TEST REPORT

Applicant Name :	M5Stack Technology Co., Ltd
Address :	Block A10, Expo Bay South Coast, Fuhai Street, Bao'an District, Shenzhen, China
Report Number:	2504T20282E-RF-07B

Test Standard (s)

Japan item 19 of Article 2 Paragraph 1

Sample Description

Product Type:	M5Stam PLC
Model No.:	Stam PLC
Trade Mark:	M5STACK
Date Received:	2025-05-08
Date of Test:	2025-05-21 to 2025-05-28
Report Date:	2025-05-30

Test Result:	The EUT complied with the standards above.

Prepared and Checked By:

Matt Liang
EMC Engineer

Approved By:

Bob Liao
EMC Engineer

Note: The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked.
This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY **4**

GENERAL INFORMATION **5**

PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) 5
OBJECTIVE 5
TEST METHODOLOGY 5
TEST FACILITY 5

EUT TEST CONFIGURATION **6**

DESCRIPTION OF TEST CONFIGURATION 6
TEST VOLTAGE# 6
EUT EXERCISE SOFTWARE AND POWER LEVEL# 6
EQUIPMENT MODIFICATIONS 6
SUPPORT EQUIPMENT LIST AND DETAILS 7
EXTERNAL I/O CABLE 7
CONFIGURATION OF TEST SETUP 7

SUMMARY OF TEST RESULTS **8**

TEST EQUIPMENT LIST **9**

FREQUENCY ERROR **10**

LIMIT 10
TEST PROCEDURE 10
MEASUREMENT SYSTEM DIAGRAM 10
TEST DATA 10

OCCUPIEDBANDWIDTHANDSPREADINGBANDWIDTH **11**

LIMIT 11
TEST PROCEDURE 11
MEASUREMENT SYSTEM DIAGRAM 11
TEST DATA 11

TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY **12**

LIMIT 12
TEST PROCEDURE 12
MEASUREMENT SYSTEM DIAGRAM 12
TEST DATA 12

ANTENNA OUTPUT POWER AND ANTENNA POWER TOLERANCE **13**

LIMIT 13
TEST PROCEDURE 13
MEASUREMENT SYSTEM DIAGRAM 14
TEST DATA 14

RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY **15**

LIMIT 15
TEST PROCEDURE 15
MEASUREMENT SYSTEM DIAGRAM 15
TEST DATA 15

CARRIER SENSE CAPABILITY **16**

LIMIT 16
TEST PROCEDURE 16
MEASUREMENT SYSTEM DIAGRAM 16
TEST DATA 16

INTERFERENCE PREVENTION FUNCTION 17
REQUIREMENT 17
TEST PROCEDURE 17
MEASUREMENT SYSTEM DIAGRAM 17
TEST DATA 17
CONSTRUCTION PROTECTION CONFIRMATION 18
LIMIT 18
CONFIRMATION METHOD 18
APPENDIX (TEST RESULTS) 19
FREQUENCY ERROR 19
OCCUPIED BANDWIDTH AND SPREADING BANDWIDTH 22
TRANSMITTER SPURIOUS EMISSION STRENGTH 27
ANTENNA OUTPUT POWER AND OUTPUT POWER TOLERANCE 42
RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY 48
CARRIER SENSE CAPABILITY 54
INTERFERENCE PREVENTION FUNCTION 55
DUTY CYCLE 56
EXHIBIT A - EUT PHOTOGRAPHS 59
EXHIBIT B - TEST SETUP PHOTOGRAPHS 60

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504T20282E-RF-07B	Original Report	2025-05-30

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product		M5Stam PLC
Tested Model		Stam PLC
Radio Type		WLAN
Technical Parameters	Support Technical	802.11b/g/n20/n40
	Modulation Type	DSSS, OFDM
	Frequency Range	802.11b/g/n20: 2412MHz-2472MHz 802.11n40: 2422MHz-2462MHz
	Rated Output Power#	802.11b: 6.0mW/MHz 802.11g: 3.0mW/MHz 802.11n20: 3.0mW/MHz 802.11n40: 1.5mW/MHz
	Antenna Gain#	3.98dBi (provided by the applicant)
Nominal Power Supply#		DC 6-36V
Sample serial number		32J4-1 (Assigned by ATC, Shenzhen)
Sample/EUT Status		Good condition

Objective

The objective of the manufacturer is to demonstrate compliance with Radio Law of Japan item 19 of Article 2 Paragraph 1, rules and limits for this device.

Test Methodology

All measurements contained in this report were conducted with technical regulations of the Radio Law of Japan MIC Notice NO.88 Appendix No.43.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode.

For 2.4G band, 13 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

For 802.11b/g/n20 modes 1, 7 and 13 channels were tested.
For 802.11n40 mode, 3, 7 and 11channels were tested.

Test Voltage#

The EUT has a voltage buck converter: JW5712, the fluctuation of power supply to the RF circuit of EUT is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

Voltage Condition	Input(V_{DC})	RF System Voltage(V_{DC})
NV	12.0	3.3
LV	10.8	3.3
HV	13.2	3.3

Test voltage: DC 12V(Normal Voltage) (It is provided by the applicant.)

EUT Exercise Software and Power Level#

“EspRFTestTool_v3.6” exercise software was made to the EUT tested and the power level was provided by the manufacturer.

The worst-case data rates are determined to be as follows:

Mode	Data Rate	Power Level		
		Low Channel	Middle Channel	High Channel
802.11 b	1 Mbps	16	16	16
802.11 g	6 Mbps	16	16	16
802.11 n20	MCS0	16	16	16
802.11 n40	MCS0	16	16	16

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

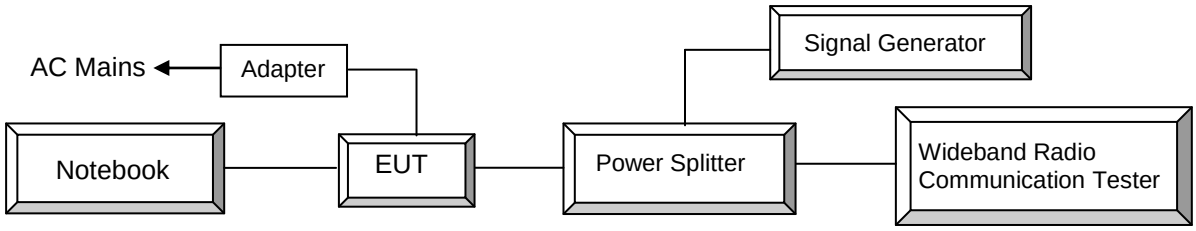
Manufacturer	Description	Model	Serial Number
LENOVO	Notebook	ThinkPad x240	SL10F31638JS
Shenzhen Wentong Electronics Co., LTD	Adapter#	WT200650	Unknow
HUAWEI	Router	WS5100	DCJ7S18609013316 10

External I/O Cable

Cable Description	Length (m)	From Port	To
USB Cable	0.8	Notebook	EUT
RF cable	0.1	EUT	Attenuator

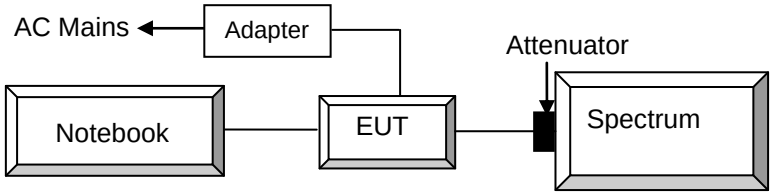
Configuration of Test Setup

For Interference Prevention Function:



Note: Notebook views the identification code through the “EspRFTestTool_v3.6” software.

Other test items:



SUMMARY OF TEST RESULTS

MIC Notice No.88 Appendix No.43 Article 2, Paragraph 1, Item 19 Rules.

Item	Description of Test	Result
1	Frequency Tolerance	Compliance
2	Occupied Bandwidth and Spreading Bandwidth	Compliance
3	Transmitter Spurious Emission and Unwanted Emission Intensity	Compliance
4	Antenna Output Power and Output Power Tolerance	Compliance
5	Receiver Spurious Emission and Unwanted Emission Intensity	Compliance
6	Transmission Antenna Gain	Not Applicable
7	Transmission Radiation Angle Width	Not Applicable
8	Carrier Sense Capability	Compliance
9	Frequency Hopping Dwell Time	Not Applicable*
10	Interference Prevention Function	Compliance
11	Construction Protection Confirmation	Compliance

Not Applicable - This test item was not required for the output power less than 12.14 dBm/MHz (E.I.R.P) for less than 20MHz bandwidth or 9.13 dBm/MHz (E.I.R.P) for less than 40MHz bandwidth.

Not Applicable* - Testing is only required for FHSS system devices.

Note: The cable loss is 0.5dB and the attenuator is 10 dB, which was added into all test results.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Authority	Calibration Method
WEINSCHEL	10dB Attenuator	5324	AU 3842	2025/3/26	2026/3/25	BACL Cal	C
Mini-Circuits	Power Splitter	ZFRSC-183-S+	SF10944151S	2025/3/26	2026/3/25	BACL Cal	C
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101948	2024/10/8	2025/10/7	BACL Cal	C
AGILENT	Vector Signal Generator	N5182A	MY50143401	2024/10/8	2025/10/7	BACL Cal	C
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	124441	2024/10/8	2025/10/7	BACL Cal	C

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Note

A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as"NICT")or a designated calibration agency under Article 102-18 paragraph (1)

B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No.51of1992)

C. Calibration conducted in foreign countries, which shall beequivalent to the calibration conducted by theNI CT or a designated calibration agency under Article 102-18 paragraph(1)

D.Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from A to C.

FREQUENCY ERROR

Limit

- 50ppm or below

Test Procedure

Set the EUT to the measurement frequency without modulation.

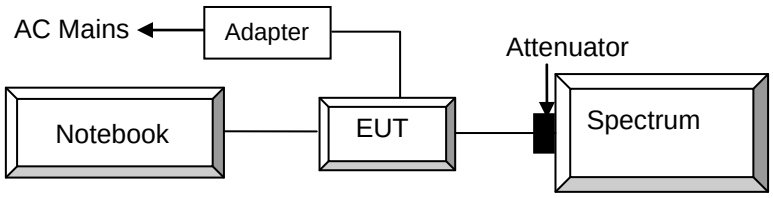
Setting of SA is following as:

- Center Frequency: Frequency to measure
- RBW: 1kHz, VBW: 3kHz
- Sweep time: Auto or more
- Sweep mode: Continuous Sweep
- Detect mode: Positive Peak
- Trace mode: Max hold

Record the peak spot frequency.

If the EUT can't set at un-modulation mode, measure the 10dBc center frequency.

Measurement System Diagram



Test Data

Test Result: Please refer to the Appendix.

OCCUPIEDBANDWIDTHANDSPREADINGBANDWIDTH

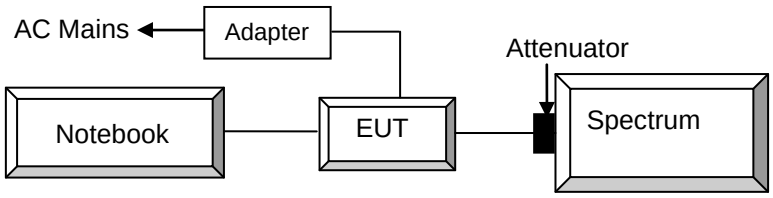
Limit

- Occupied Bandwidth: FH≤83.5 MHz; DS: ≤26 MHz;
  OFDM: ≤26 MHz or 26 MHz-40 MHz; Others≤26 MHz
- Spread Bandwidth:≥ 500 kHz (FH, DS); Spread factor>5.

Test Procedure

1. Setting of SA is following as:
   - Center Frequency: Frequency to measure
   - RBW: 300kHz, VBW: 300kHz
   - Sweep time: Auto
   - Sweep mode: Continuous Sweep
   - Detect mode: Positive Peak
   - Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.
3. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 90% of occupied bandwidth to measure spread bandwidth.
4. Spread Factor=Spread Bandwidth/modulation rate. The modulation rate: MR=1.375 for 802.11b.

Measurement System Diagram



Test Data

Test Result: Please refer to the Appendix.

TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY

Limit

Frequency Band	Limit
Band I: 30MHz-1GHz	0.25μW/100kHz (-36dBm/100kHz)
Band II: 1GHz-2387MHz	2.5μW/MHz (-26dBm/MHz)
Band III: 2387MHz-2400MHz	25μW/MHz (-16dBm/MHz)
Band IV: 2483.5MHz-2496.5MHz	25μW/MHz (-16dBm/MHz)
Band V: 2496.5MHz-12.5GHz	2.5μW/MHz (-26dBm/MHz)

Test Procedure

Conditions of Application Equipment (EUT)

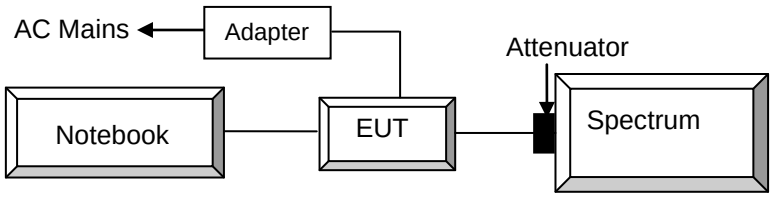
- The modulation state shall be in continuously transmitting mode.

Spectrum Analyzer Conditions:

- Span: Measuring Frequency Range
- RBW: 1MHz (frequency range; 1GHz over), 100kHz (frequency range; 30MHz to 1GHz)
- VBW: Same as RBW (1MHz or 100kHz)
- Sweep time: Auto(Minimum time to ensure measurement accuracy.)
- Data points: 400 points or more
- Reference level: Enough level for maximum dynamic range
- Detection: Positive Peak

If the measured value is under the technical standard value, do not need to measure more detail.

Measurement System Diagram



Test Data

Test Result: Please refer to the Appendix.

.

ANTENNA OUTPUT POWER AND ANTENNA POWER TOLERANCE

Limit

- ≤ 10 mW/MHz (OFDM (20MHz system), DSSS from 2400-2483.5 MHz)
- ≤ 5 mW/MHz (OFDM (40MHz system) from 2400-2483.5 MHz)
- ≤ 10 mW (other from 2400-2483.5 MHz)

The Output Power Tolerance must be within +20%, -80%.

EIRP

- ≤ 12.14dBm/MHz (OFDM(20MHz system),DSSS from 2400-2483.5MHz)
- ≤ 9.13dBm/MHz (OFDM(40MHz system), from 2400-2483.5MHz)
- ≤12.14dBm (other from 2400-2483.5MHz)

Test Procedure

For FHSS UUT:

Connect the UUT to the spectrum analyser and use the following settings:

- Frequency to measure (2402 MHz, 2441MHz, and 2480MHz)
- RBW: 1MHz
- VBW: 1MHz
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Average (see note)
- Trace Mode: Max Hold

For OFDM, DSSS UUT:

Step 1:Connect the UUT to the spectrum analyser and use the following settings:

- Centre Frequency: The centre frequency of the channel under test.
- RBW: 1 MHz
- VBW: 1 MHz
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Peak
- Trace Mode: Max Hold

Step 2:When the trace is complete, find the peak value of the power envelope and record the frequency.

Step 3:Make the following changes to the settings of the spectrum analyser:

- Centre Frequency: Equal to the frequency recorded in step 2.
- RBW: 1 MHz
- VBW: 1 MHz
- Detector: RMS

This level is recorded as the highest mean power (spectral power density) D in a 1MHz band.

For other UUT:
Make the following changes to the settings of the spectrum analyser:

- Centre Frequency: The centre frequency of the channel under test.
- Span: 5MHz
- RBW: 3 MHz
- VBW: 10MHz.
- Detector: Peak
- Trace Mode: Max Hold

NOTE: The detector mode "Average" is often referred to as "RMS Average" or "Sample" but do not use Video Average.

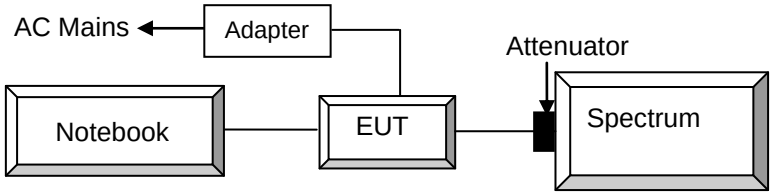
When the trace is complete, capture the trace, for example using the "View" option on the spectrum analyser. For Find the peak value of the trace and place the analyser marker on this peak. This level is recorded as D.

D shall be recorded in the test report.

The maximum PD, which is e.i.r.p. PSD (spectral density power) or power, is calculated from the above measured value D, and the applicable antenna assembly gain "G" in dBi, according to the formula below. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with thehig hest gain shall be used.

PD = D + G

Measurement System Diagram



Test Data

Test Result: Please refer to the Appendix.

RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY

Limit

Frequency Band	Limit
Band VI: 30MHz-1GHz	4nW (-54dBm)
Band VII: 1GHz-12.5GHz	20nW (-47dBm)

Test Procedure

Conditions of Application Equipment (EUT)

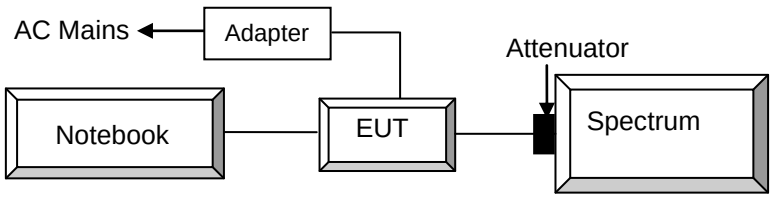
- The modulation state shall be “continuous receiving mode”.

Spectrum Analyzer Conditions

- Start Frequency: Start Frequency of frequency range to measure (30MHz or 1GHz)
- Stop Frequency: Stop Frequency of frequency range to measure (1GHz or 12.5GHz)
- Span: AUTO (Measurement Range)
- RBW: 100 kHz, VBW: 100 kHz for Frequency < 1 GHz
- RBW: 1MHz, VBW: 1MHz for Frequency > 1 GHz
- Sweep time: AUTO or more
- Sweep mode: Auto Sweep
- Detection: Positive Peak
- Reference Level: Enough level for maximum dynamic range

If searched value is under the technical standard value, do not need to measure more detail.

Measurement System Diagram



Test Data

Test Result: Please refer to the Appendix.

CARRIER SENSE CAPABILITY

Limit

- MIC Notice No.88 Appendix No.43 Article 2, Paragraph 1, Item 19 Rules Section 10

Test Procedure

1. Setting the SA as following:

Center frequency: Center frequency of the receiving frequency band

Span: 50MHz (Note 1)

RB: 1MHz; VB: Same as RB.

Trigger type: Free-run

Detector: Peak(Note 1)

Note 1:In the case of transmission in OFDM or other modulation type with the occupied frequency bandwidth of 26MHz or less, the sweep frequency width is set at 0 Hz, the detection mode as the sample and the center frequency is set at 13MHz to 19MHz from the carrier frequency.

2. Set the EUT to transmit, in the state that the SG is OFF, and the spectrum analyzer confirms that check the OFDM radio wave with the occupied frequency band exceeding 26 MHz.

3. Set the EUT in receiving state.

4. Turn the SG on, check the OFDM radio wave transmit or not. Record the result.

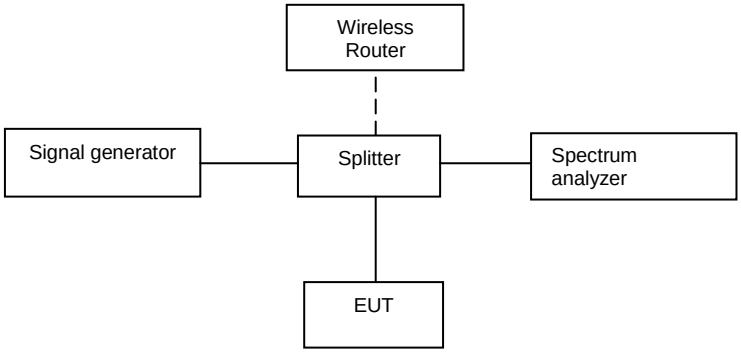
The SG setting as following:

Modulation type: Un-modulated (Note 2)

Output power level: The regulated power level on the antenna input of the EUT.

Note 2: The un-modulated carrier in the center frequency, when the carrier sense function of the test equipment is not work, if necessary, change the frequency or modulate it.

Measurement System Diagram



Test Data

Test Result: Please refer to the Appendix.

INTERFERENCE PREVENTION FUNCTION

Requirement

The EUT shall have the interference prevention capability to transmit or to receive the identification automatically, so that sender and receiver shall exclude other equipment.

Test Procedure

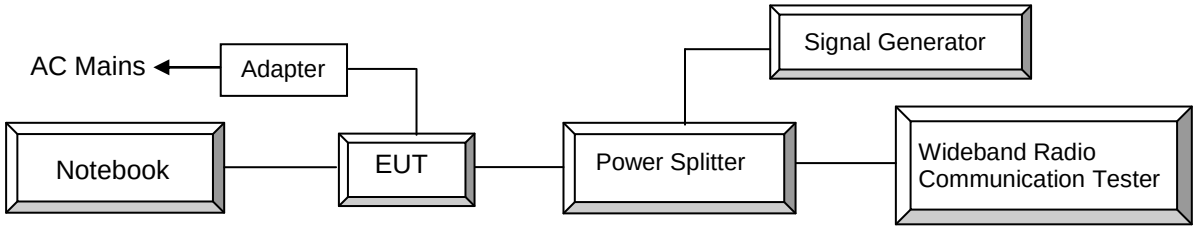
In the case that the EUT has the function of automatically transmitting the identification code:

1. Transmit the predetermined identification codes from EUT
2. Check the transmitted identification codes with the demodulator.

In the case of receiving the identification codes:

1. Transmit the predetermined identification codes from the counterpart.
2. Check if communication is normal
3. Transmit the signal other than predetermined ID codes from the counterpart.
4. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

Measurement System Diagram



Test Data

Test Result: Please refer to the Appendix.

CONSTRUCTION PROTECTION CONFIRMATION

Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

Confirmation Method

The device is tightly fastened with screws and is difficult to open. Please refer to the actual photo.

APPENDIX (TEST RESULTS)

Frequency Error

Test Information:

Sample No.:	32J4-1	**Test Date:**	2025/05/21
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Cayde Hou	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.9	**Relative Humidity: (%)**	52	**ATM Pressure: (kPa)**	100.2

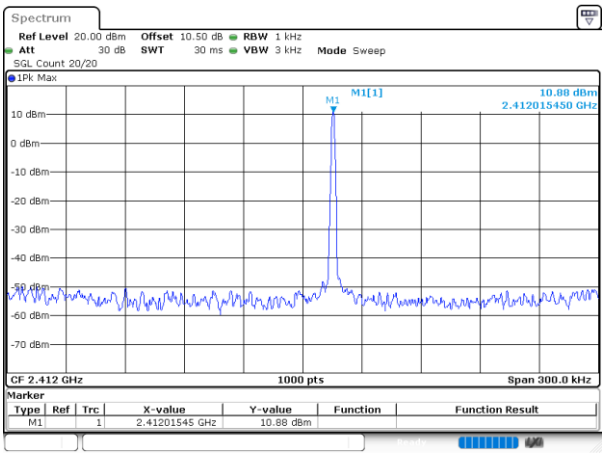
Test Condition: NV

Mode	Frequency (MHz)	Measure Frequency(MHz)	Frequency Tolerance(ppm)	Limit (ppm)	Verdict
Single Carrier	2412	2412.01545	6.41	± 50	Pass
	2422	2422.01605	6.63	± 50	Pass
	2442	2442.01575	6.45	± 50	Pass
	2462	2462.01635	6.64	± 50	Pass
	2472	2472.01605	6.49	± 50	Pass

Note:
Frequency Tolerance = (Measure Frequency - Frequency)/Frequency*10^6

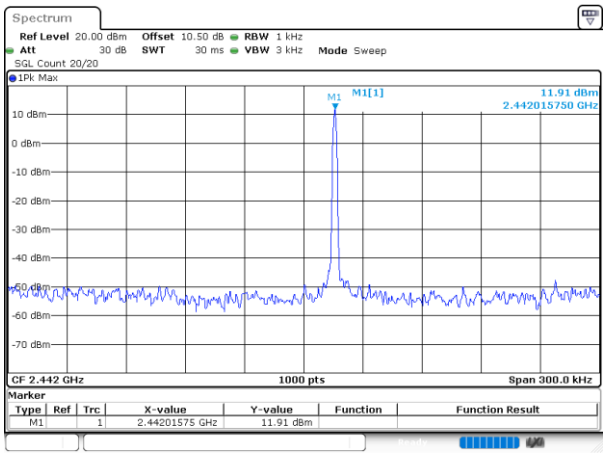
Test Condition: NV

2412MHz



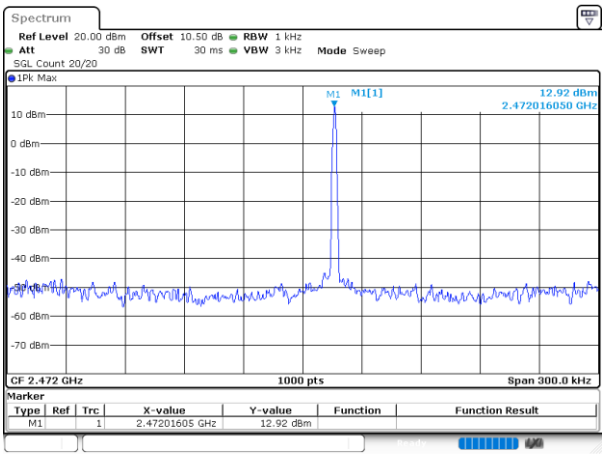
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:29:38

2442MHz



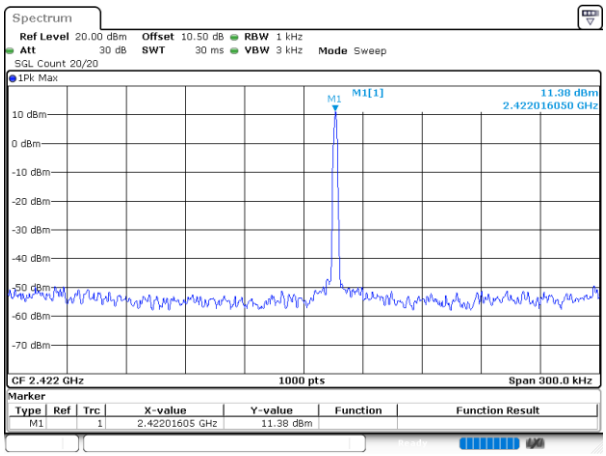
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:29:53

2472MHz



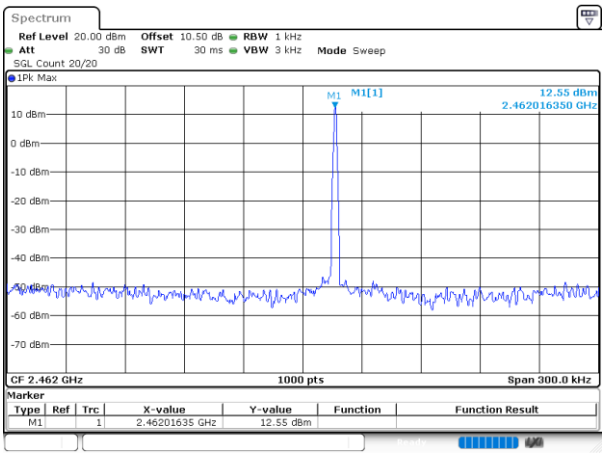
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:30:09

2422MHz



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:30:26

2462MHz



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:31:01

Occupied Bandwidth and Spreading Bandwidth

Test Information:

Sample No.:	32J4-1	**Test Date:**	2025/05/21
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Cayde Hou	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.9	**Relative Humidity: (%)**	52	**ATM Pressure: (kPa)**	100.2

Test Condition: NV

Mode	Occupied bandwidth (MHz)			Limit(MHz)	Verdict
	Low Channel	Middle Channel	High Channel		
802.11b	13.00	13.00	13.00	≤ 26	Pass
802.11g	16.92	16.92	16.92	≤ 26	Pass
802.11n20	18.00	18.00	18.00	≤ 26	Pass
802.11n40	36.08	36.08	36.08	26~40	Pass

Spreading bandwidth and Spreading Factor for 802.11b(DSSS)

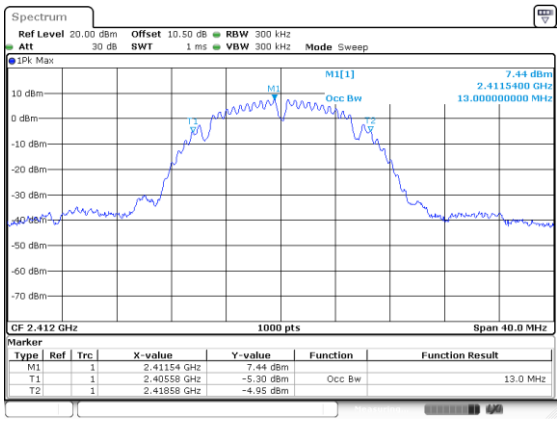
Test Items	Low Channel	Middle Channel	High Channel	Limit	Verdict
Spreading bandwidth (MHz)	8.96	8.96	8.96	≥ 0.5	Pass
Spreading Factor	6.52	6.52	6.52	≥ 5	Pass

Note1: Spread factor = spread bandwidth/modulation rate
Note2: Modulation rate: 802.11b = 1.375

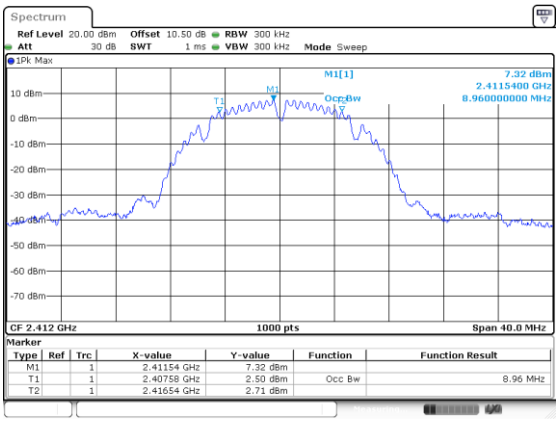
Test Condition: NV

802.11b, Low Channel

Occupied Bandwidth

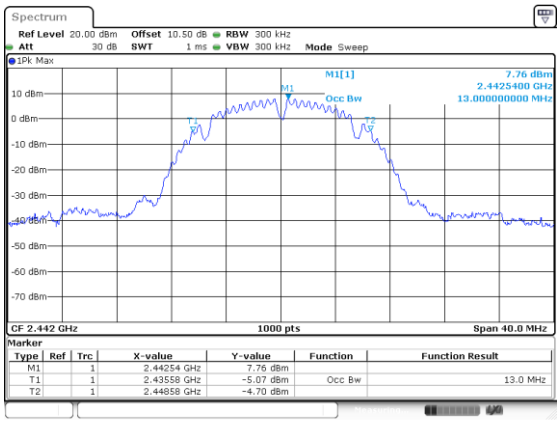


Spreading Bandwidth

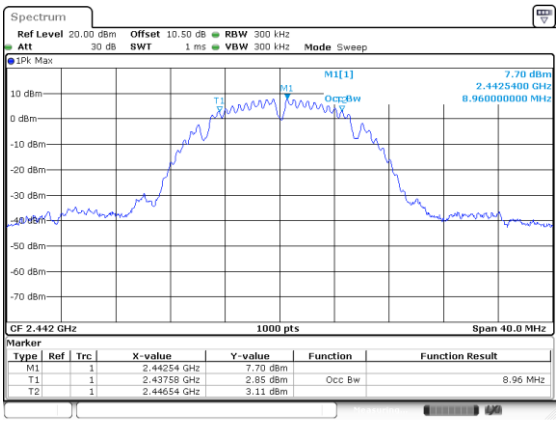


802.11b, Middle Channel

Occupied Bandwidth

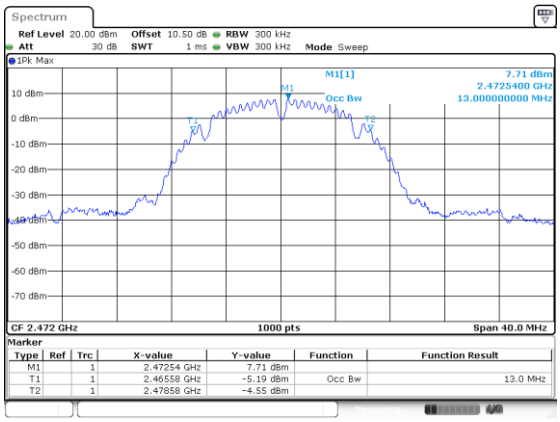


Spreading Bandwidth

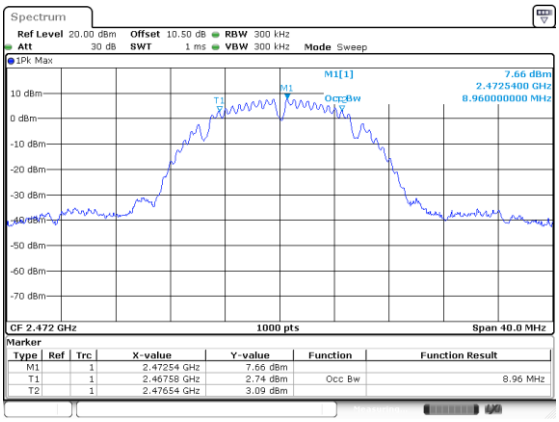


802.11b, High Channel

Occupied Bandwidth

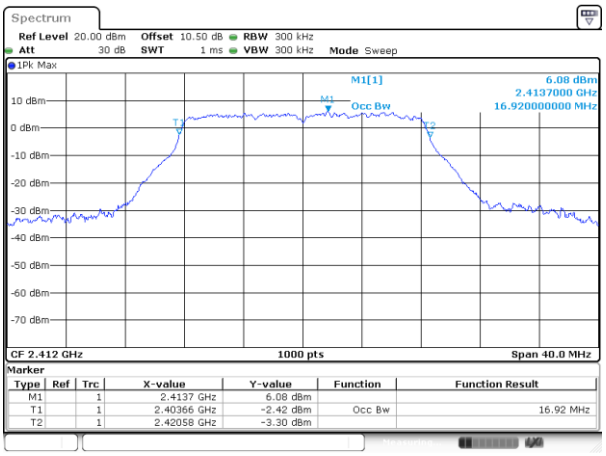


Spreading Bandwidth

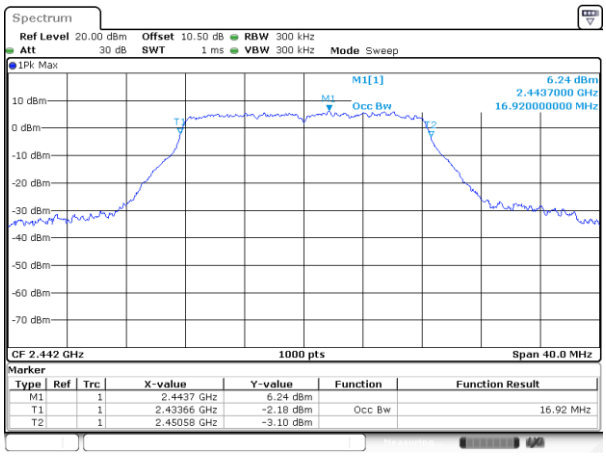


Occupied Bandwidth

802.11g, Low Channel

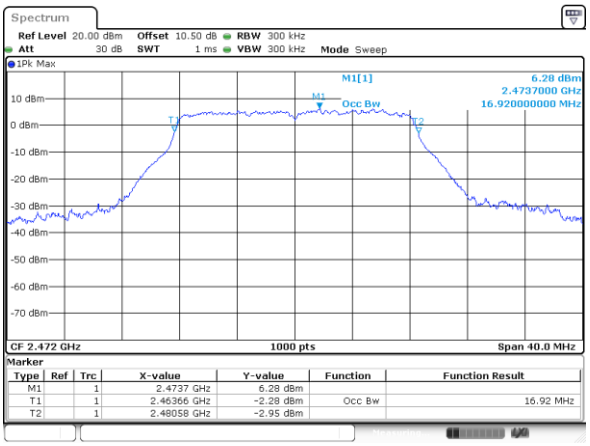


802.11g, Middle Channel

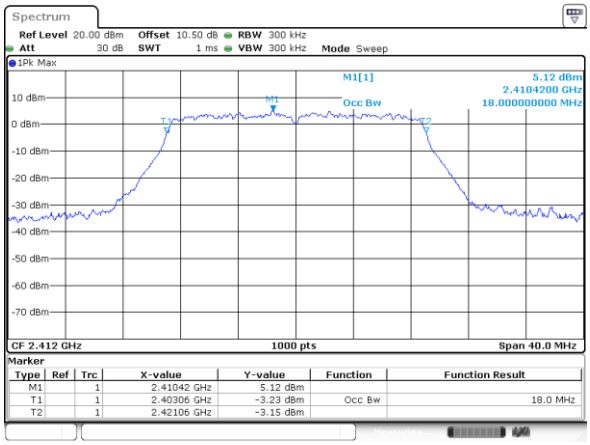


Occupied Bandwidth

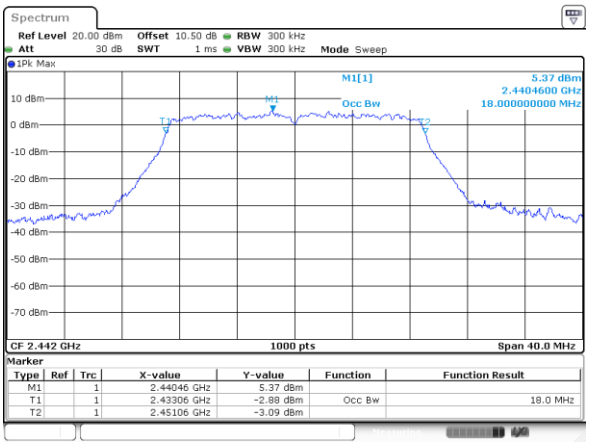
802.11g, High Channel



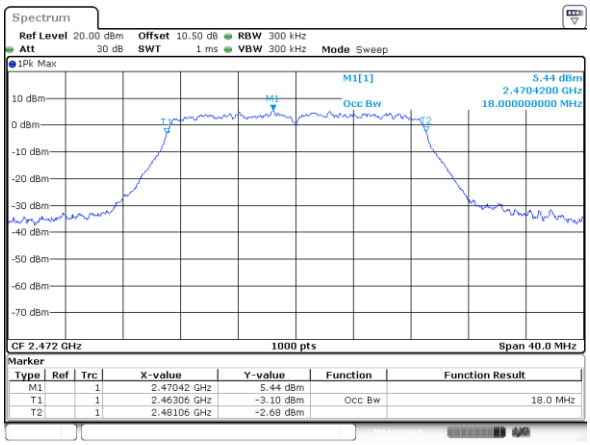
802.11n20, Low Channel



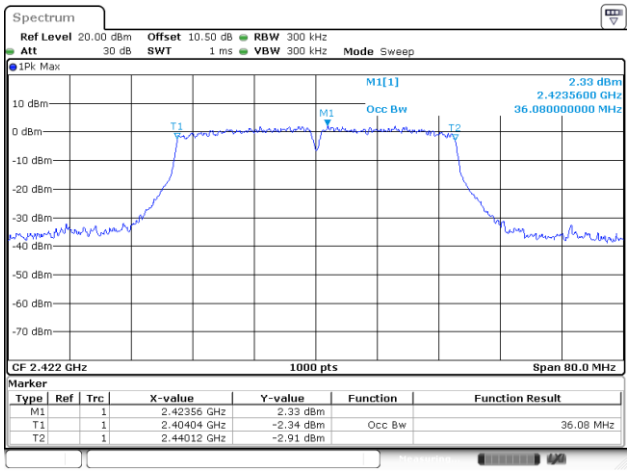
802.11n20, Middle Channel



802.11n20, High Channel

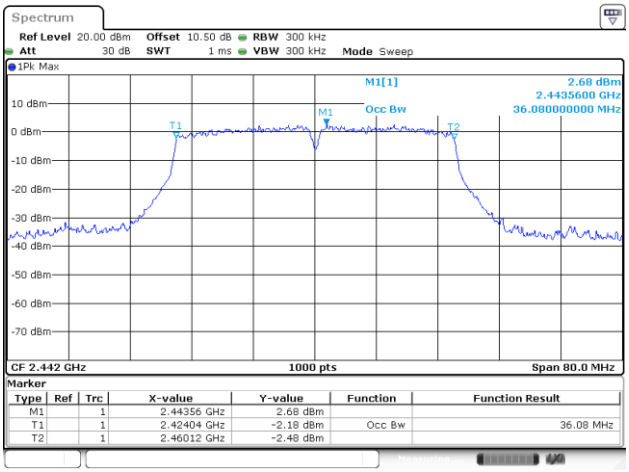


802.11n40, Low Channel



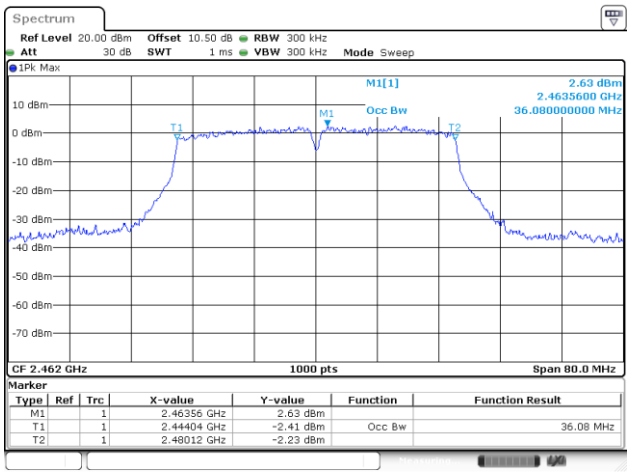
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:46:30

802.11n40, Middle Channel



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:47:39

802.11n40, High Channel



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:48:46

Transmitter Spurious Emission Strength

Test Information:

Sample No.:	32J4-1	**Test Date:**	2025/05/21
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Cayde Hou	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.9	**Relative Humidity: (%)**	52	**ATM Pressure: (kPa)**	100.2

Test Condition: NV

802.11b

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start (MHz)	Stop (MHz)					
Low	Band I (100kHz)	30	1000	832.43	-48.39	0.014	0.25	Pass
	Band II (1MHz)	1000	2387	2386.65	-37.10	0.195	2.50	Pass
	Band III (1MHz)	2387	2400	2397.2538	-31.48	0.711	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2488.4888	-37.10	0.195	25	Pass
	Band V (1MHz)	2496.5	12500	5860.2	-33.59	0.438	2.50	Pass
Middle	Band I (100kHz)	30	1000	894.03	-47.08	0.020	0.25	Pass
	Band II (1MHz)	1000	2387	2380.41	-37.31	0.186	2.50	Pass
	Band III (1MHz)	2387	2400	2387.0098	-38.14	0.153	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2489.1843	-36.61	0.218	25	Pass
	Band V (1MHz)	2496.5	12500	6385.4	-33.62	0.435	2.50	Pass
High	Band I (100kHz)	30	1000	750.95	-48.12	0.015	0.25	Pass
	Band II (1MHz)	1000	2387	2025.34	-38.82	0.131	2.50	Pass
	Band III (1MHz)	2387	2400	2392.1773	-37.46	0.179	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2486.7988	-31.56	0.698	25	Pass
	Band V (1MHz)	2496.5	12500	6780.5	-33.84	0.413	2.50	Pass

802.11g

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start (MHz)	Stop (MHz)					
Low	Band I (100kHz)	30	1000	927.49	-47.66	0.017	0.25	Pass
	Band II (1MHz)	1000	2387	2386.65	-31.09	0.778	2.50	Pass
	Band III (1MHz)	2387	2400	2399.9968	-19.40	11.482	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2493.0843	-36.67	0.215	25	Pass
	Band V (1MHz)	2496.5	12500	5875.2	-33.54	0.443	2.50	Pass
Middle	Band I (100kHz)	30	1000	968.72	-47.48	0.018	0.25	Pass
	Band II (1MHz)	1000	2387	2136.99	-38.57	0.139	2.50	Pass
	Band III (1MHz)	2387	2400	2399.3923	-37.13	0.194	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2494.4103	-36.62	0.218	25	Pass
	Band V (1MHz)	2496.5	12500	6985.6	-33.80	0.417	2.50	Pass

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start (MHz)	Stop (MHz)					
High	Band I (100kHz)	30	1000	985.21	-47.98	0.016	0.25	Pass
	Band II (1MHz)	1000	2387	2348.51	-37.94	0.161	2.50	Pass
	Band III (1MHz)	2387	2400	2391.0008	-38.07	0.156	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.5098	-24.78	3.327	25	Pass
	Band V (1MHz)	2496.5	12500	2499	-30.73	0.845	2.50	Pass

802.11n20

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start (MHz)	Stop (MHz)					
Low	Band I (100kHz)	30	1000	856.2	-47.74	0.017	0.25	Pass
	Band II (1MHz)	1000	2387	2384.57	-32.19	0.604	2.50	Pass
	Band III (1MHz)	2387	2400	2399.9448	-18.16	15.276	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2492.3823	-37.67	0.171	25	Pass
	Band V (1MHz)	2496.5	12500	5955.2	-33.79	0.418	2.50	Pass
Middle	Band I (100kHz)	30	1000	621.94	-47.98	0.016	0.25	Pass
	Band II (1MHz)	1000	2387	1924.78	-38.88	0.129	2.50	Pass
	Band III (1MHz)	2387	2400	2397.1043	-37.12	0.194	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2494.2608	-36.94	0.202	25	Pass
	Band V (1MHz)	2496.5	12500	5800.2	-33.64	0.433	2.50	Pass
High	Band I (100kHz)	30	1000	973.08	-47.96	0.016	0.25	Pass
	Band II (1MHz)	1000	2387	2312.45	-38.48	0.142	2.50	Pass
	Band III (1MHz)	2387	2400	2396.1228	-37.63	0.173	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.5033	-24.66	3.424	25	Pass
	Band V (1MHz)	2496.5	12500	2499	-32.71	0.536	2.50	Pass

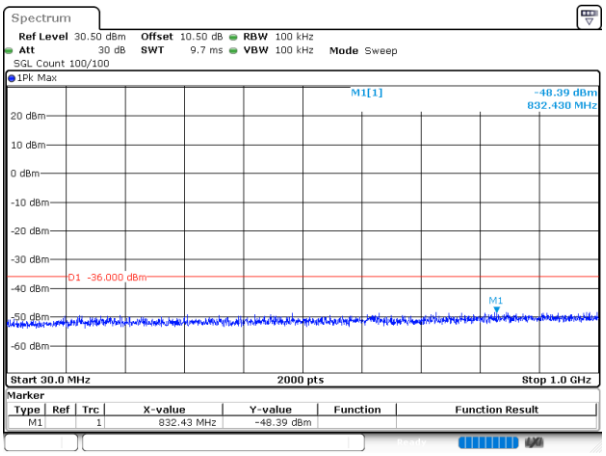
802.11n40

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start (MHz)	Stop (MHz)					
Low	Band I (100kHz)	30	1000	903.24	-47.22	0.019	0.25	Pass
	Band II (1MHz)	1000	2387	2386.65	-31.39	0.726	2.50	Pass
	Band III (1MHz)	2387	2400	2399.9903	-17.88	16.293	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2490.0423	-36.37	0.231	25	Pass
	Band V (1MHz)	2496.5	12500	5825.2	-33.49	0.448	2.50	Pass

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
		Start (MHz)	Stop (MHz)					
Middle	Band I (100kHz)	30	1000	878.51	-48.00	0.016	0.25	Pass
	Band II (1MHz)	1000	2387	2385.96	-36.63	0.217	2.50	Pass
	Band III (1MHz)	2387	2400	2395.5703	-31.50	0.708	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2486.9613	-31.29	0.743	25	Pass
	Band V (1MHz)	2496.5	12500	5870.2	-33.10	0.490	2.50	Pass
High	Band I (100kHz)	30	1000	905.18	-48.08	0.016	0.25	Pass
	Band II (1MHz)	1000	2387	1994.13	-38.76	0.133	2.50	Pass
	Band III (1MHz)	2387	2400	2399.5288	-35.95	0.254	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2483.5423	-25.93	2.550	25	Pass
	Band V (1MHz)	2496.5	12500	2499	-30.37	0.918	2.50	Pass

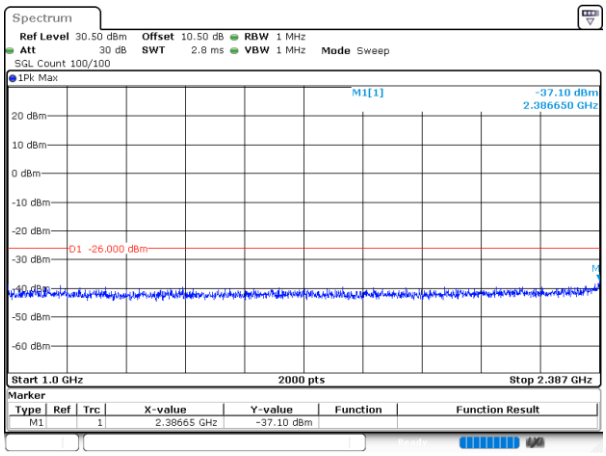
Test Condition: NV

802.11b, Low Channel(30MHz~1GHz)



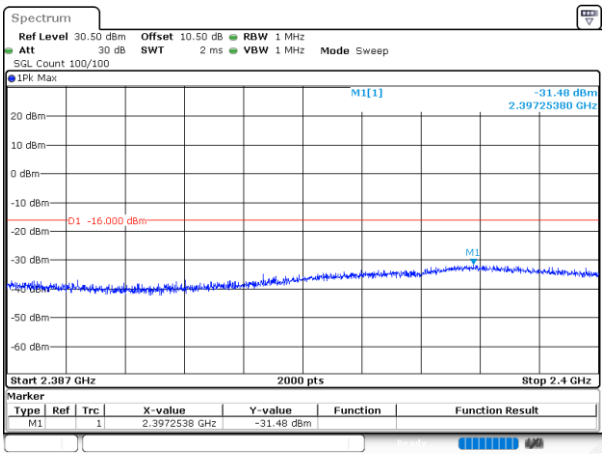
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:32:38

802.11b, Low Channel(1GHz~2.387GHz)



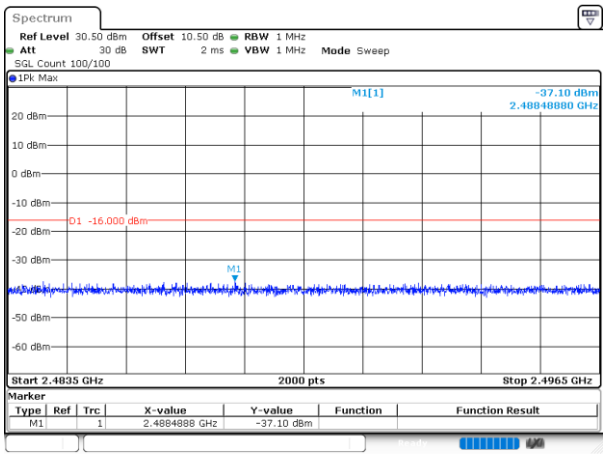
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:32:45

802.11b, Low Channel(2.387GHz~2.4GHz)



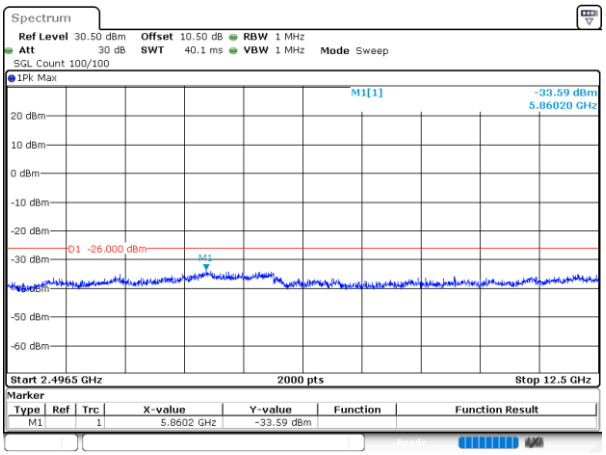
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:32:49

802.11b, Low Channel(2.4835GHz~2.4965GHz)



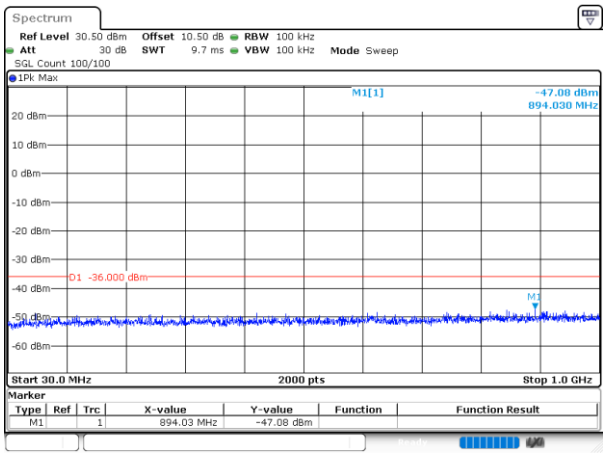
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:32:54

802.11b, Low Channel(2.4965GHz~12.5GHz)



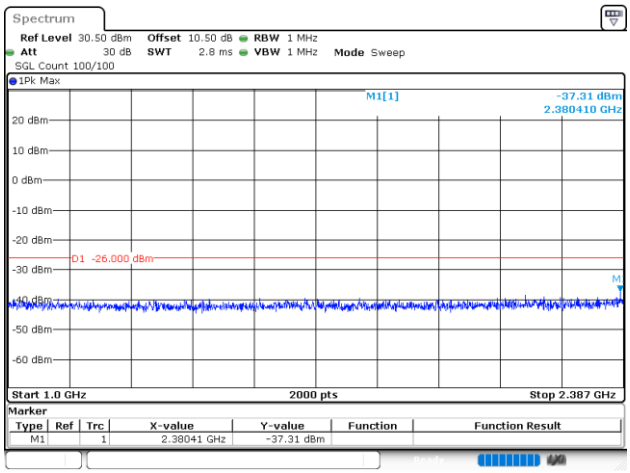
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:33:15

802.11b, Middle Channel(30MHz~1GHz)



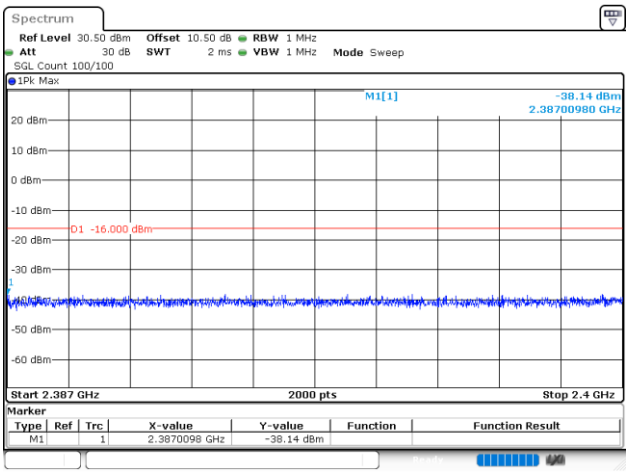
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:34:25

802.11b, Middle Channel(1GHz~2.387GHz)



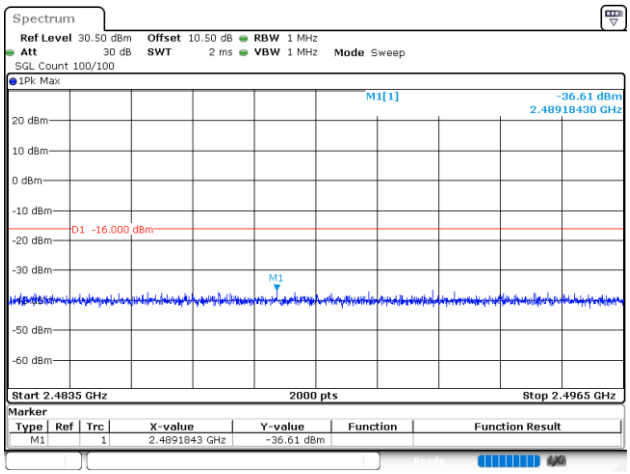
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:34:32

802.11b, Middle Channel(2.387GHz~2.4GHz)



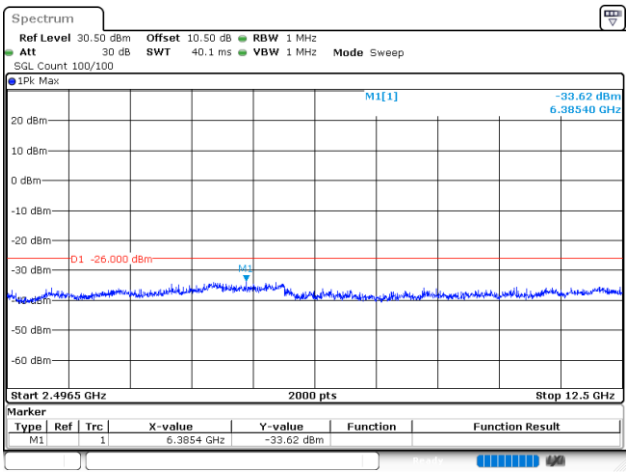
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:34:37

802.11b, Middle Channel(2.4835GHz~2.4965GHz)



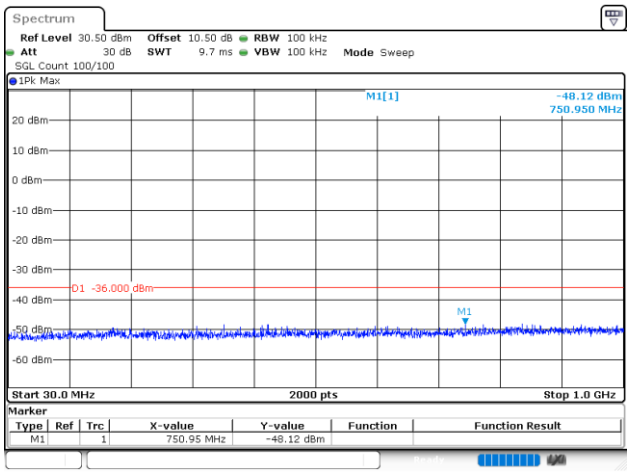
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:34:42

802.11b, Middle Channel(2.4965GHz~12.5GHz)



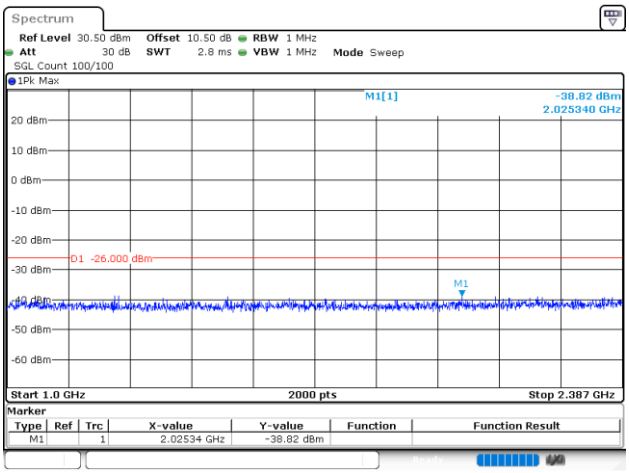
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:35:02

802.11b, High Channel(30MHz~1GHz)



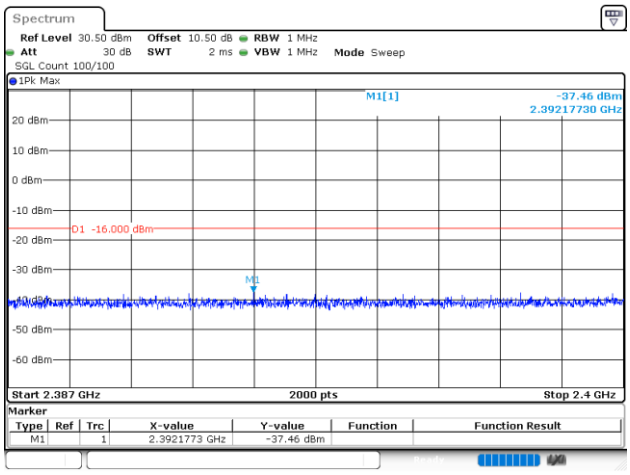
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:35:43

802.11b, High Channel(1GHz~2.387GHz)



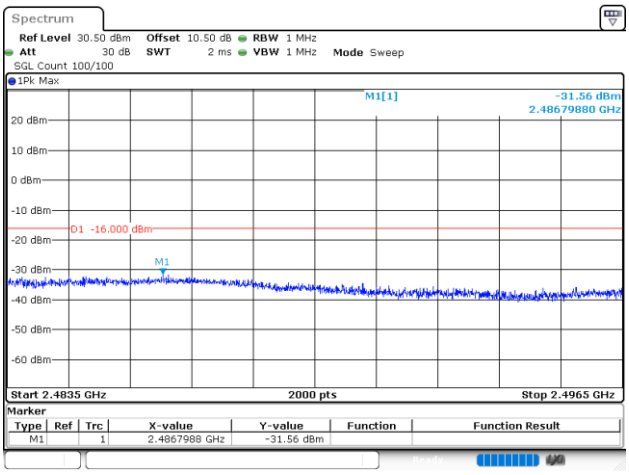
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:35:50

802.11b, High Channel(2.387GHz~2.4GHz)



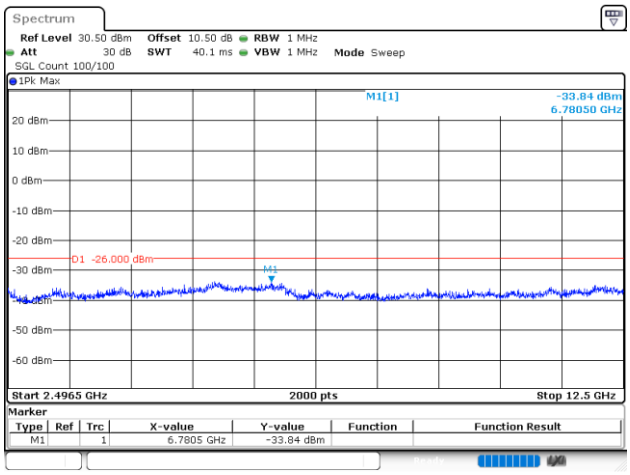
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:35:54

802.11b, High Channel(2.4835GHz~2.4965GHz)



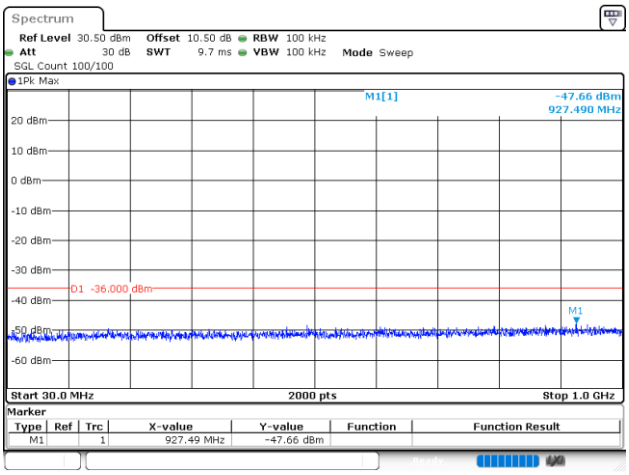
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:35:59

802.11b, High Channel(2.4965GHz~12.5GHz)



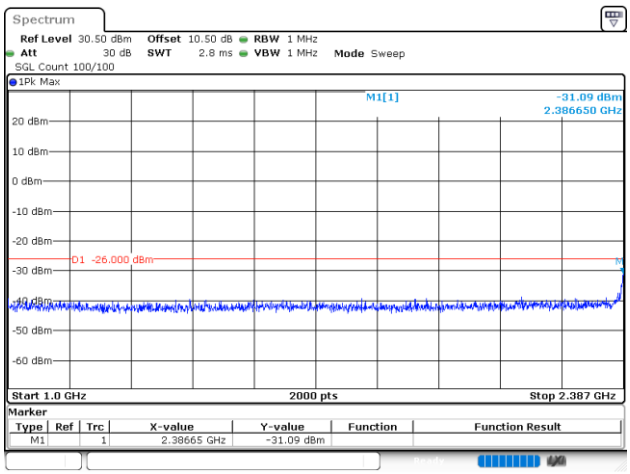
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:36:20

802.11g, Low Channel(30MHz~1GHz)



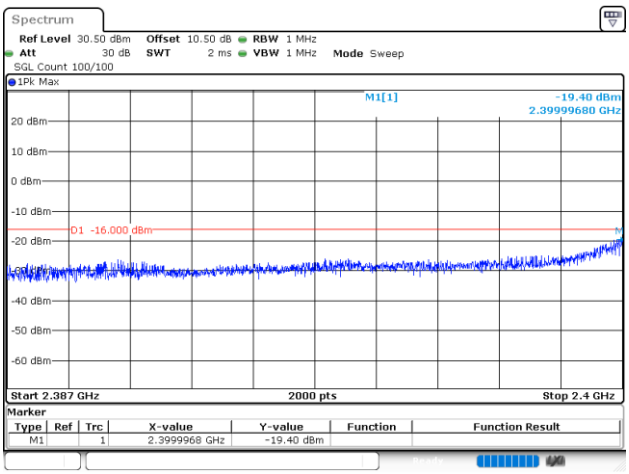
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:37:31

802.11g, Low Channel(1GHz~2.387GHz)



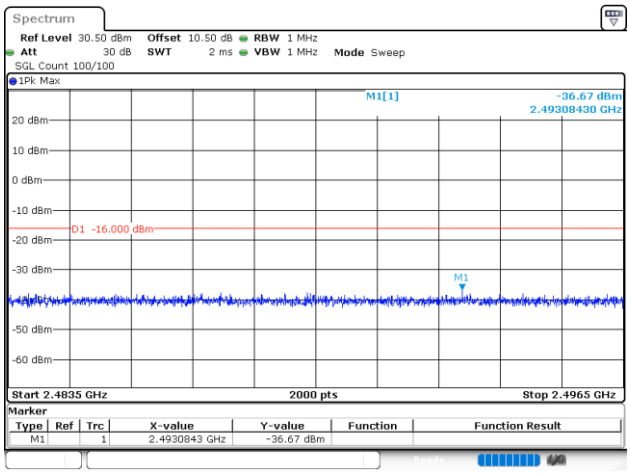
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:37:38

802.11g, Low Channel(2.387GHz~2.4GHz)

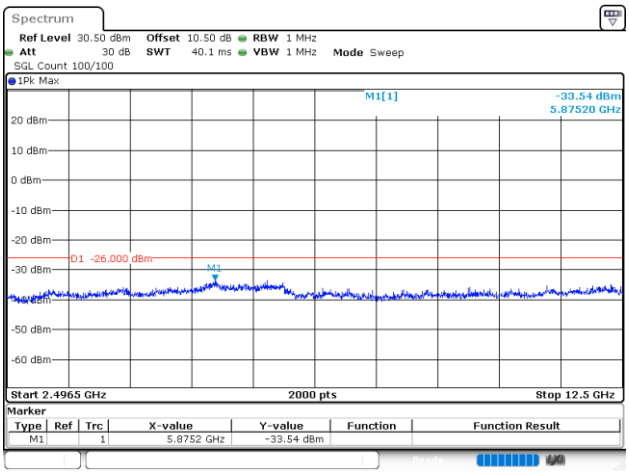


ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:37:42

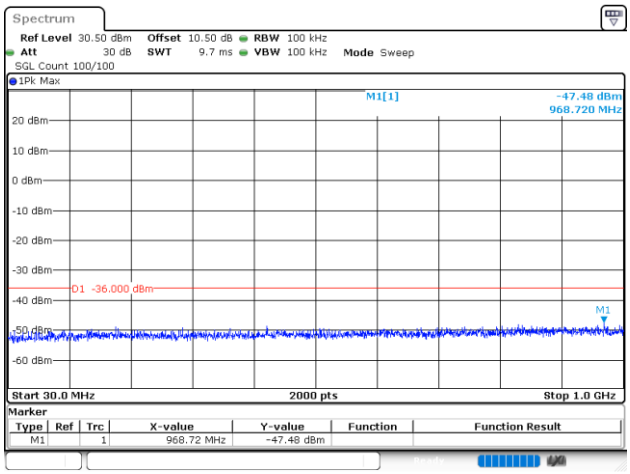
802.11g, Low Channel(2.4835GHz~2.4965GHz)



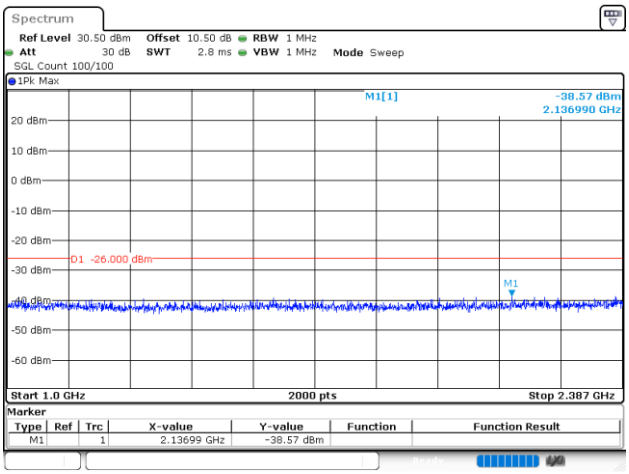
802.11g, Low Channel(2.4965GHz~12.5GHz)



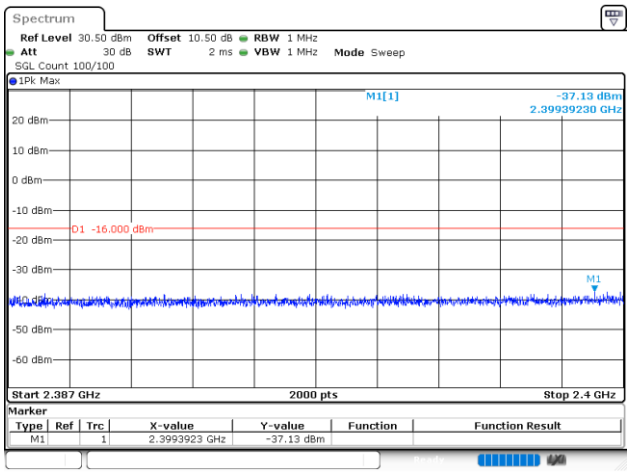
802.11g, Middle Channel(30MHz~1GHz)



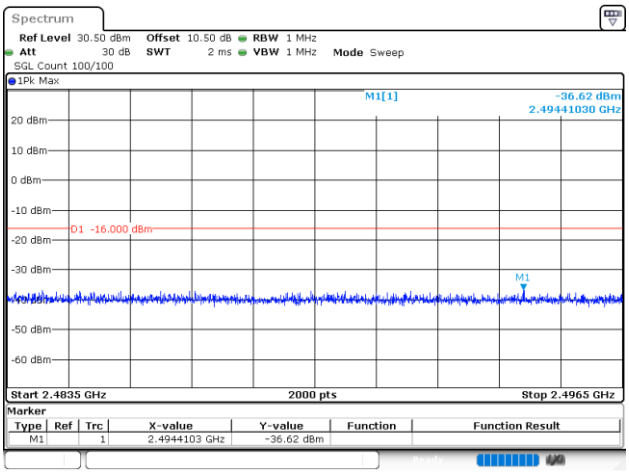
802.11g, Middle Channel(1GHz~2.387GHz)



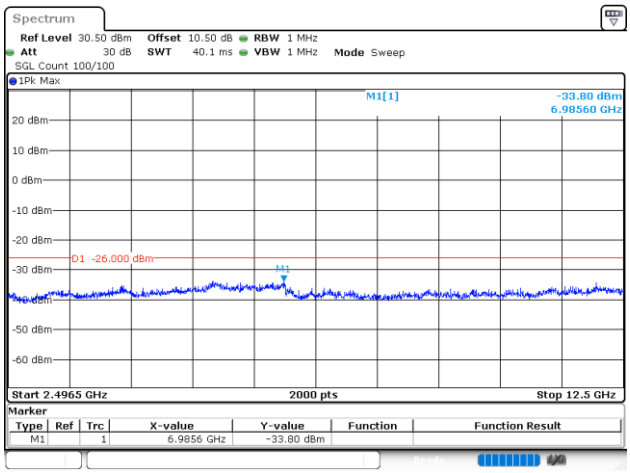
802.11g, Middle Channel(2.387GHz~2.4GHz)



802.11g, Middle Channel(2.4835GHz~2.4965GHz)

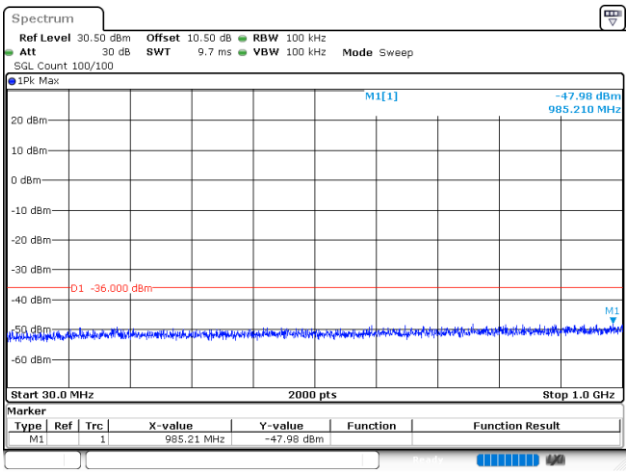


802.11g, Middle Channel(2.4965GHz~12.5GHz)



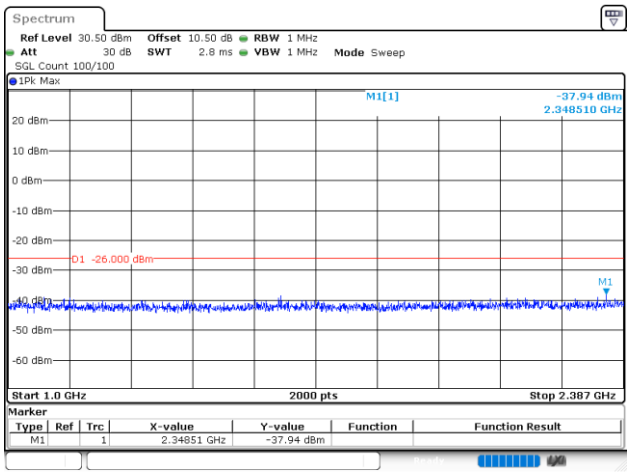
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:39:28

802.11g, High Channel(30MHz~1GHz)



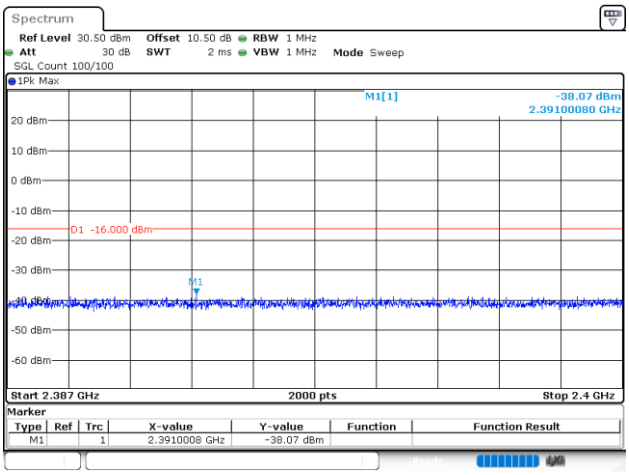
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:40:02

802.11g, High Channel(1GHz~2.387GHz)



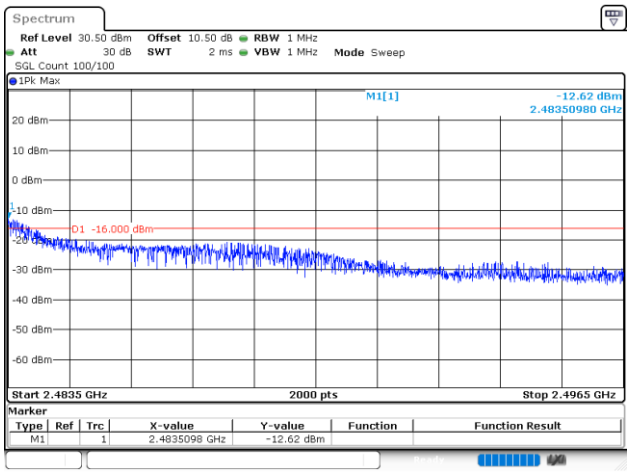
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:40:09

802.11g, High Channel(2.387GHz~2.4GHz)



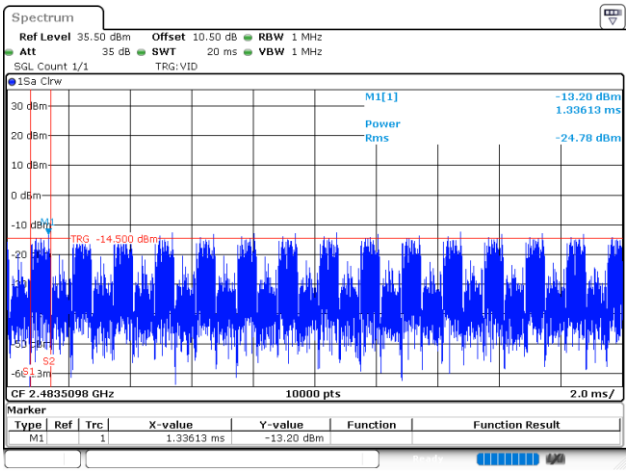
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:40:14

802.11g, High Channel(2.4835GHz~2.4965GHz)



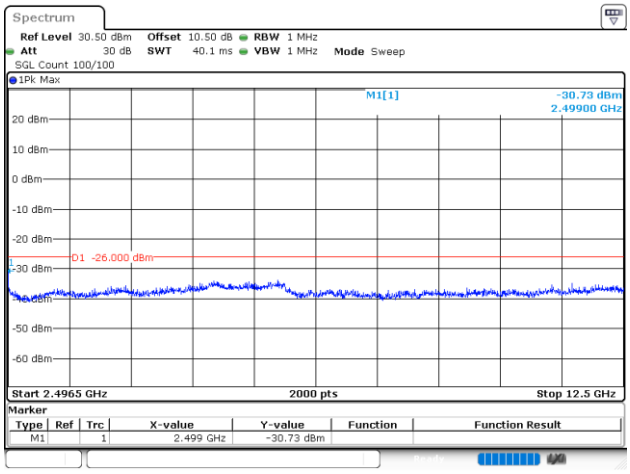
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:40:18

802.11g, High Channel(2.4835GHz~2.4965GHz)

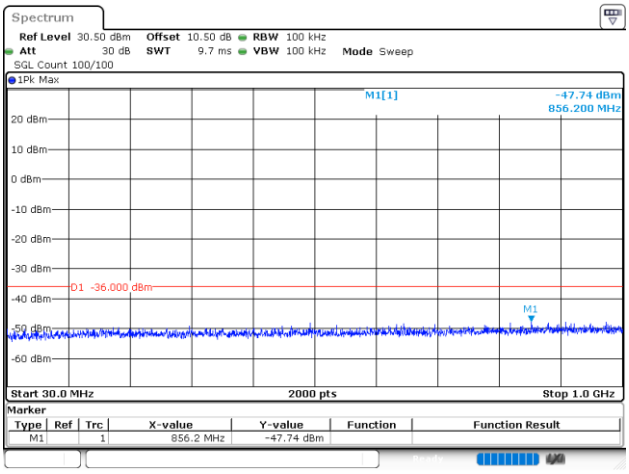


ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:41:11

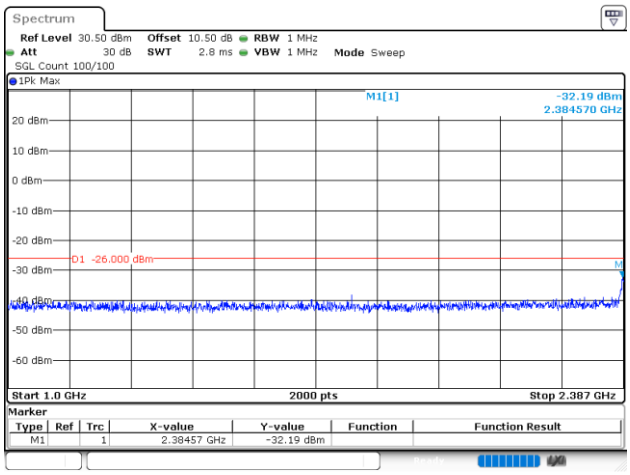
802.11g, High Channel(2.4965GHz~12.5GHz)



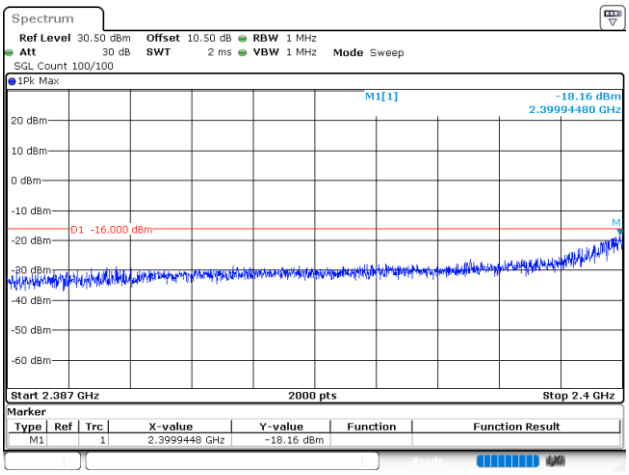
802.11n20, Low Channel(30MHz~1GHz)



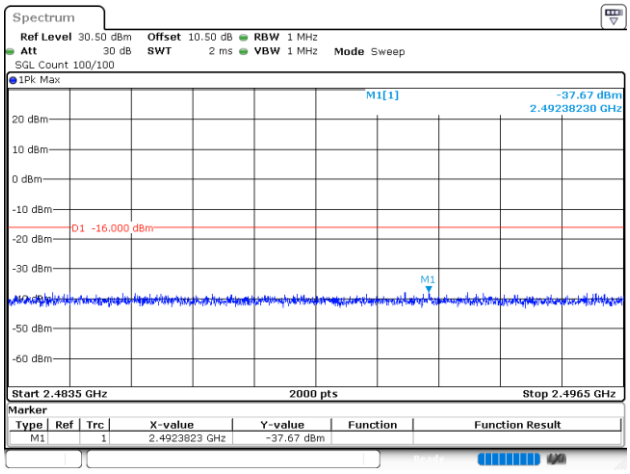
802.11n20, Low Channel(1GHz~2.387GHz)



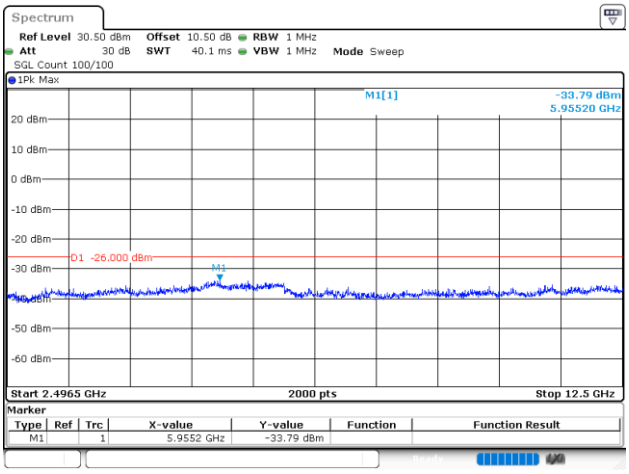
802.11n20, Low Channel(2.387GHz~2.4GHz)



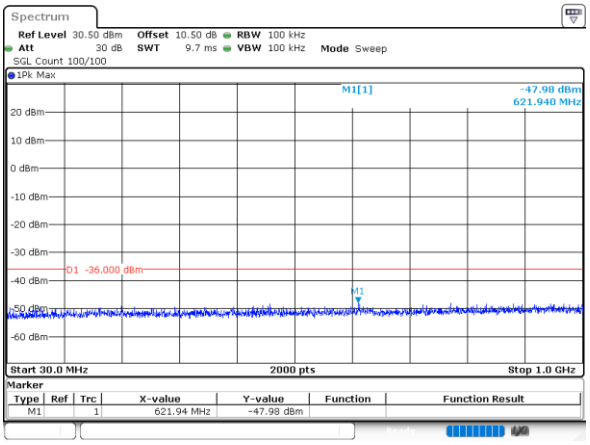
802.11n20, Low Channel(2.4835GHz~2.4965GHz)



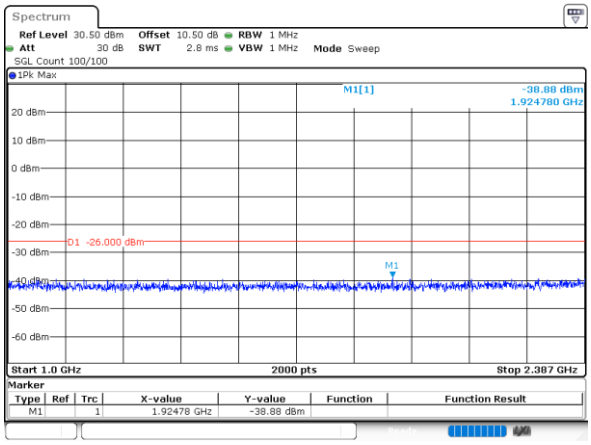
802.11n20, Low Channel(2.4965GHz~12.5GHz)



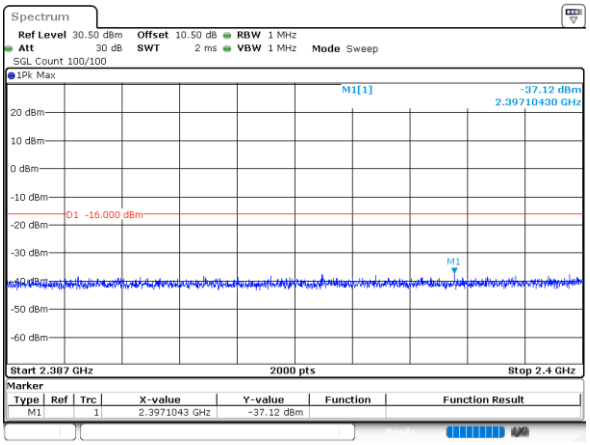
802.11n20, Middle Channel(30MHz~1GHz)



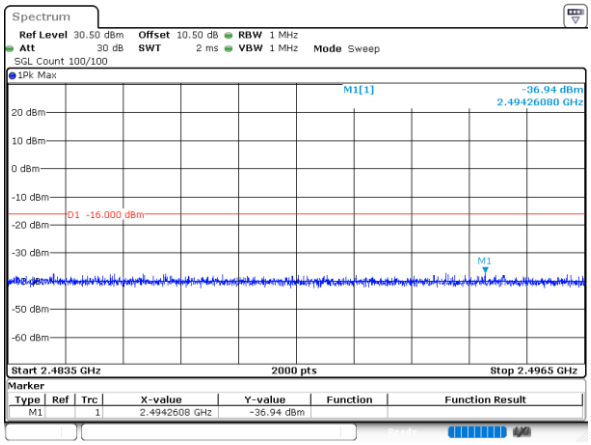
802.11n20, Middle Channel(1GHz~2.387GHz)



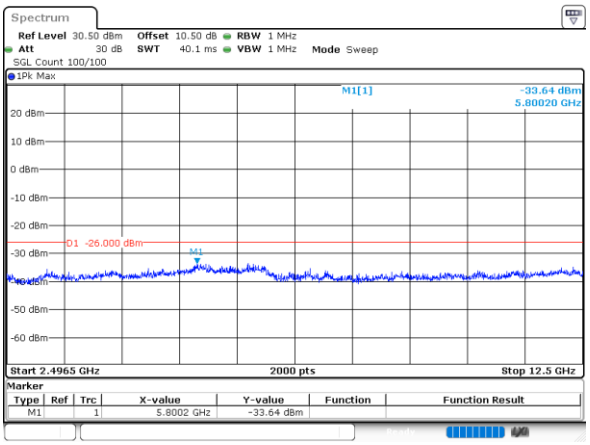
802.11n20, Middle Channel(2.387GHz~2.4GHz)



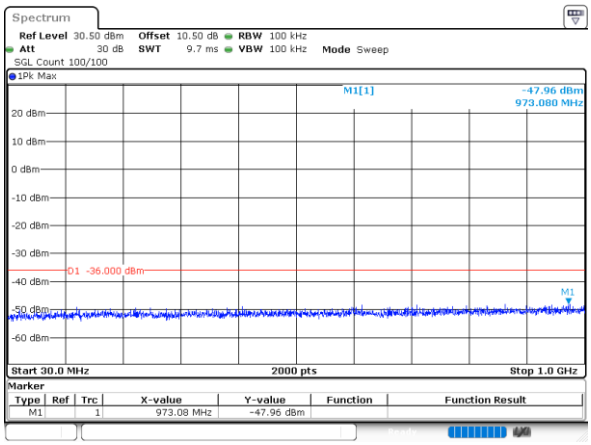
802.11n20, Middle Channel(2.4835GHz~2.4965GHz)



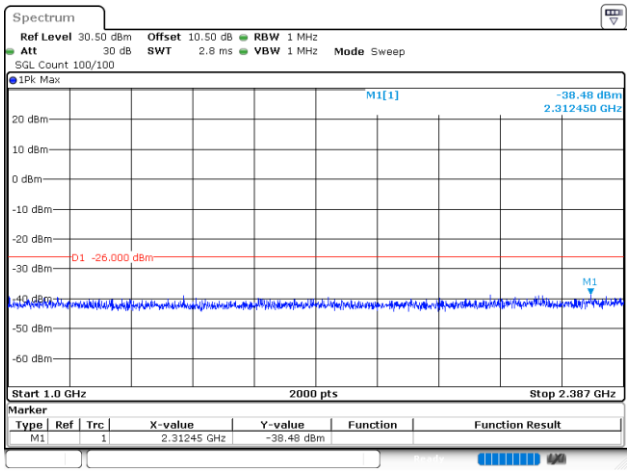
802.11n20, Middle Channel(2.4965GHz~12.5GHz)



802.11n20, High Channel(30MHz~1GHz)

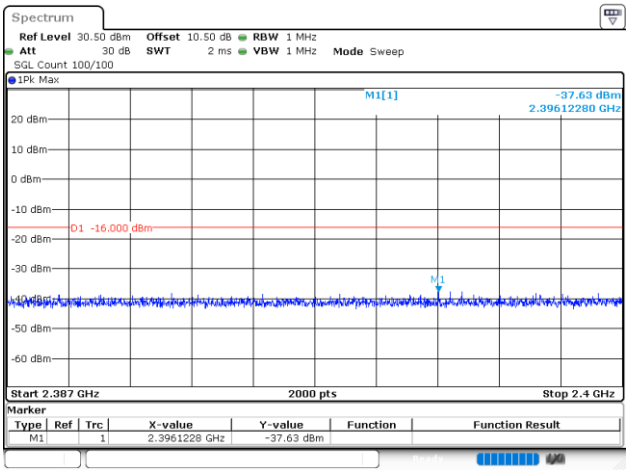


802.11n20, High Channel(1GHz~2.387GHz)



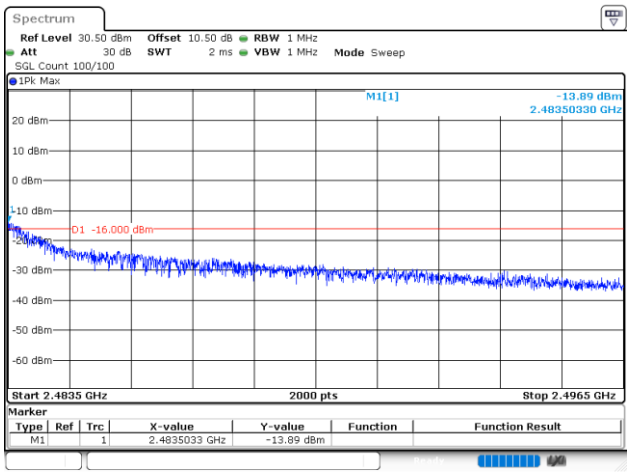
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:44:44

802.11n20, High Channel(2.387GHz~2.4GHz)



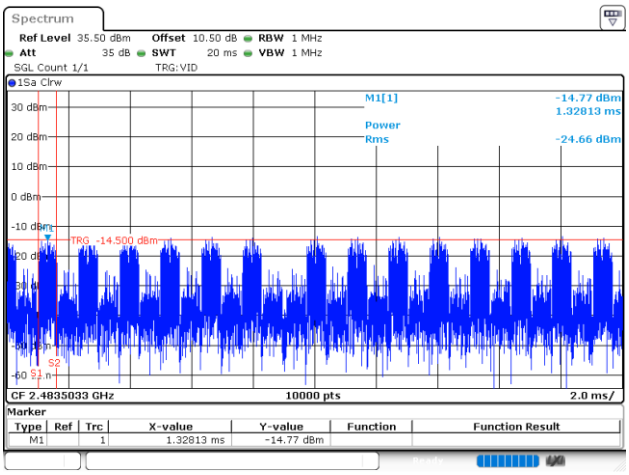
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:44:49

802.11n20, High Channel(2.4835GHz~2.4965GHz)



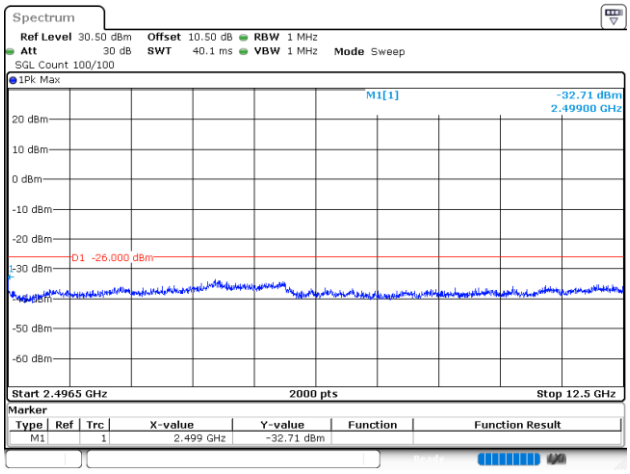
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:44:54

802.11n20, High Channel(2.4835GHz~2.4965GHz)



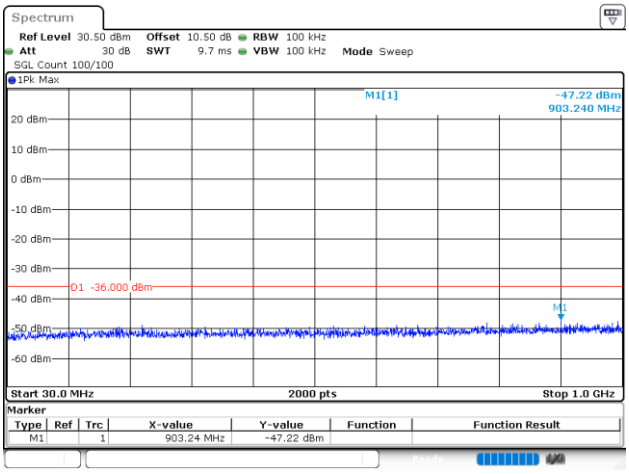
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:45:51

802.11n20, High Channel(2.4965GHz~12.5GHz)



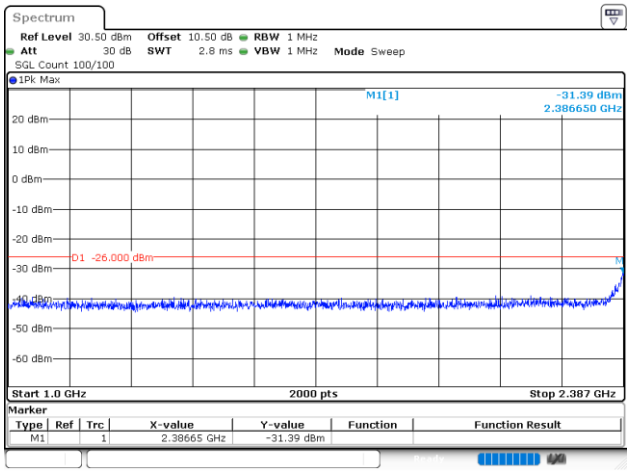
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:46:11

802.11n40, Low Channel(30MHz~1GHz)



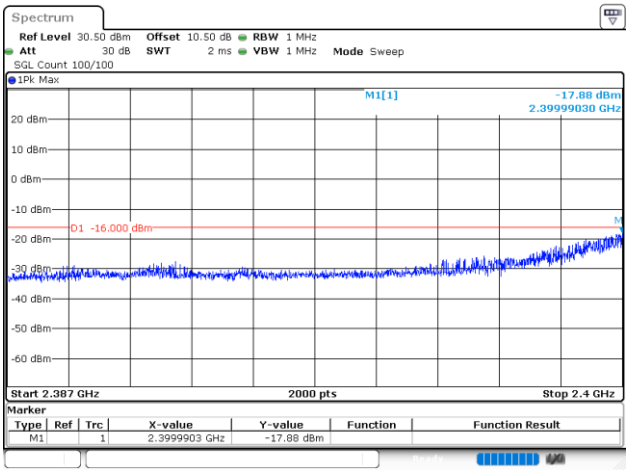
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:46:38

802.11n40, Low Channel(1GHz~2.387GHz)



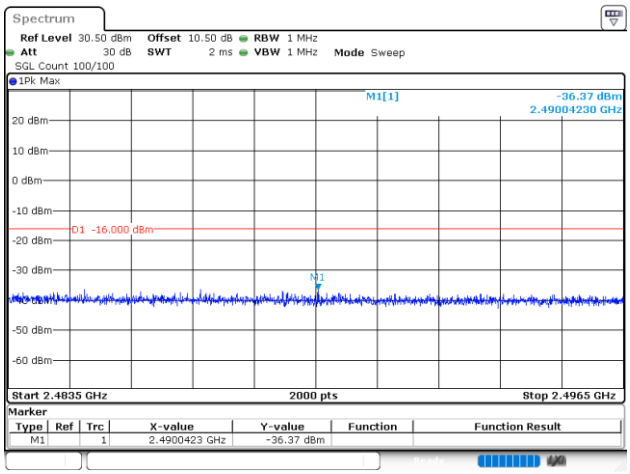
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:46:45

802.11n40, Low Channel(2.387GHz~2.4GHz)



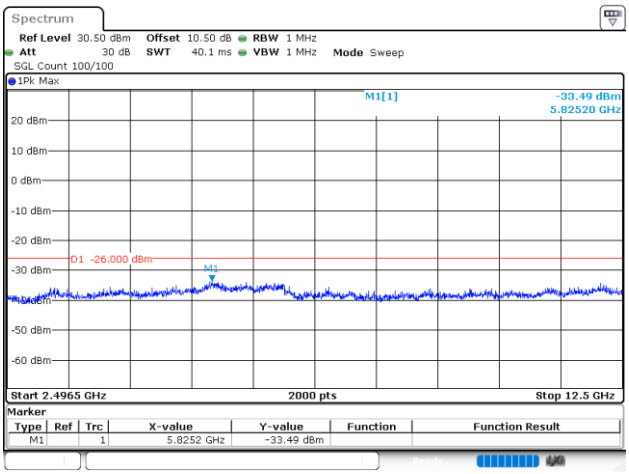
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:46:50

802.11n40, Low Channel(2.4835GHz~2.4965GHz)



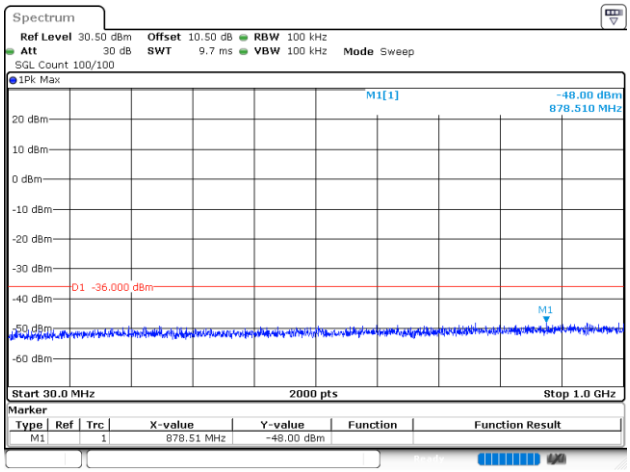
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:46:55

802.11n40, Low Channel(2.4965GHz~12.5GHz)



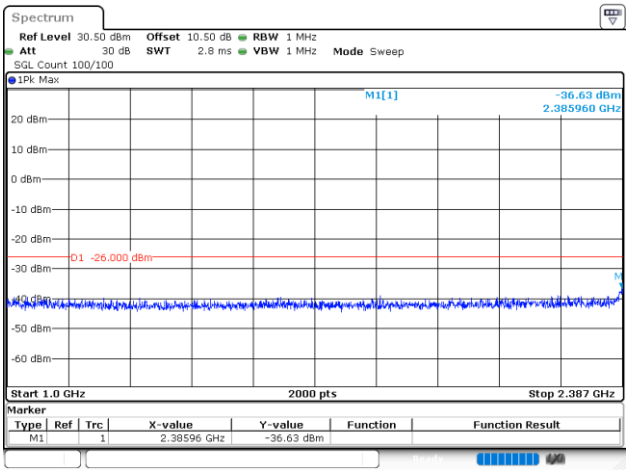
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:47:16

802.11n40, Middle Channel(30MHz~1GHz)



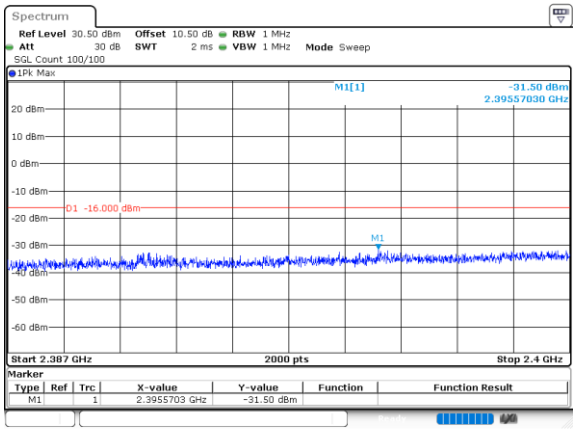
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:47:48

802.11n40, Middle Channel(1GHz~2.387GHz)

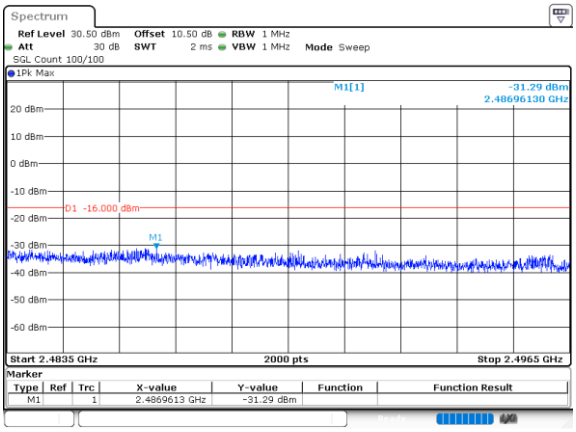


ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:47:55

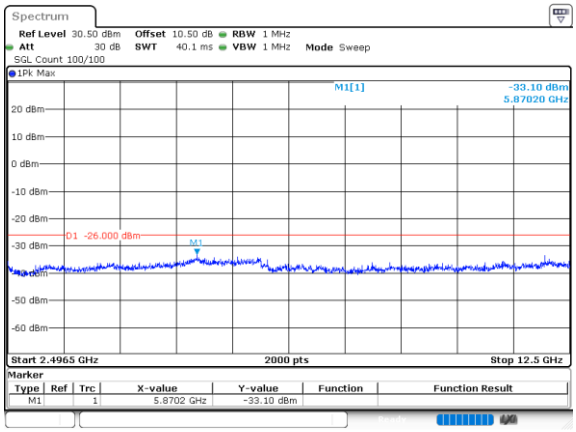
802.11n40, Middle Channel(2.387GHz~2.4GHz)



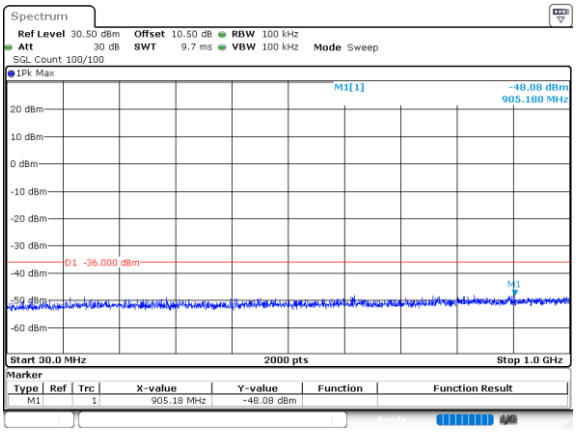
802.11n40, Middle Channel(2.4835GHz~2.4965GHz)



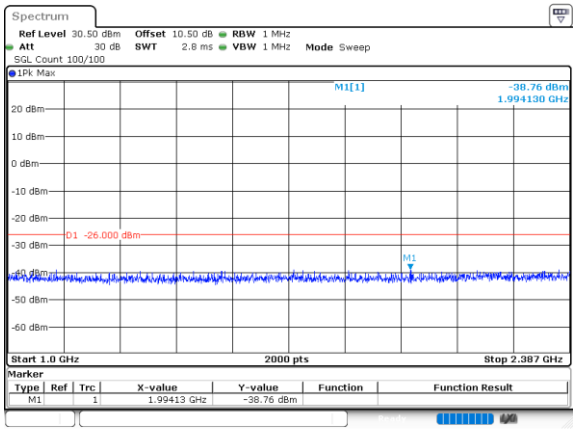
802.11n40, Middle Channel(2.4965GHz~12.5GHz)



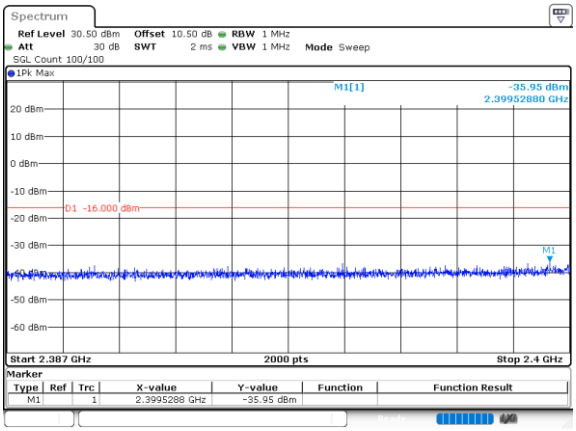
802.11n40, High Channel(30MHz~1GHz)



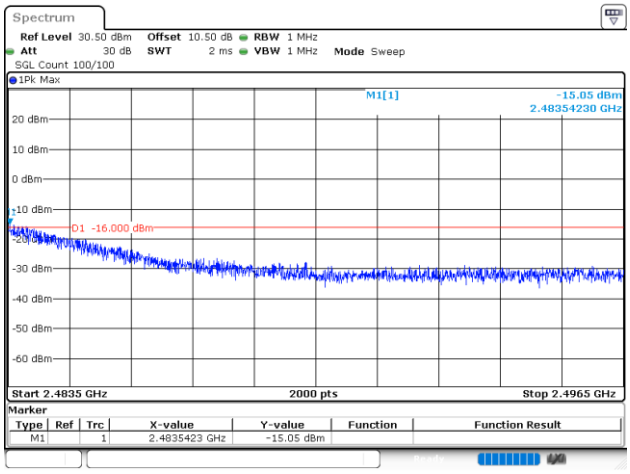
802.11n40, High Channel(1GHz~2.387GHz)



802.11n40, High Channel(2.387GHz~2.4GHz)

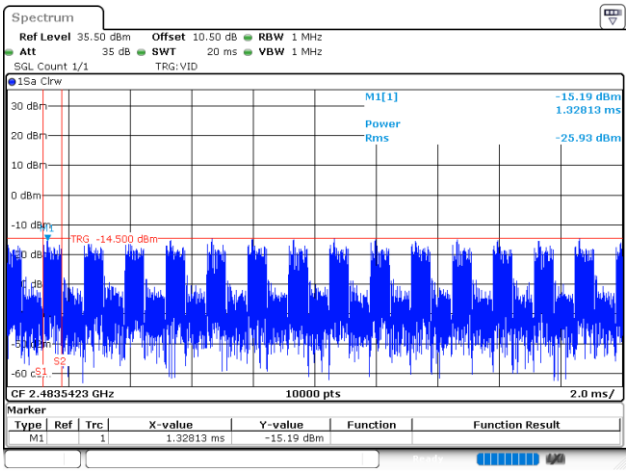


802.11n40, High Channel(2.4835GHz~2.4965GHz)



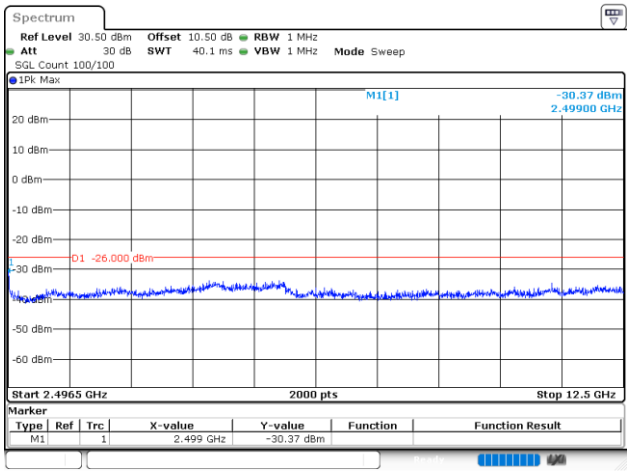
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:49:11

802.11n40, High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:50:50

802.11n40, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:51:11

Antenna Output Power and Output Power Tolerance

Test Information:

Sample No.:	32J4-1	**Test Date:**	2025/05/21
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Cayde Hou	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.9	**Relative Humidity: (%)**	52	**ATM Pressure: (kPa)**	100.2

Test Condition: NV

Antenna	Mode	Antenna gain (dBi)	Declared power (mW/MHz)
Chain 0	802.11b	3.98	6
	802.11g	3.98	3
	802.11n20	3.98	3
	802.11n40	3.98	1.5

Antenna	Mode	Channel	Reading (dBm/MHz)	Antenna output power(mW/MHz)		Antenna output tolerance(%)		EIRP (dBm/MHz)		Verdict
				Result	Limit	Result	Limit	Result	Limit	
Chain 0	802.11b	Low	5.35	3.747	≤ 10	-37.55	-80~+20	9.72	≤ 12.14	Pass
		Middle	5.81	4.166	≤ 10	-30.57	-80~+20	10.18	≤ 12.14	Pass
		High	5.25	3.662	≤ 10	-38.97	-80~+20	9.62	≤ 12.14	Pass
	802.11g	Low	1.58	1.563	≤ 10	-47.90	-80~+20	5.92	≤ 12.14	Pass
		Middle	2.05	1.741	≤ 10	-41.97	-80~+20	6.39	≤ 12.14	Pass
		High	1.69	1.603	≤ 10	-46.57	-80~+20	6.03	≤ 12.14	Pass
	802.11n20	Low	0.77	1.300	≤ 10	-56.67	-80~+20	5.12	≤ 12.14	Pass
		Middle	1.25	1.451	≤ 10	-51.63	-80~+20	5.60	≤ 12.14	Pass
		High	0.87	1.330	≤ 10	-55.67	-80~+20	5.22	≤ 12.14	Pass
	802.11n40	Low	-0.66	0.935	≤ 5	-37.67	-80~+20	3.69	≤ 9.13	Pass
		Middle	-0.41	0.990	≤ 5	-34.00	-80~+20	3.94	≤ 9.13	Pass
		High	-0.45	0.981	≤ 5	-34.60	-80~+20	3.90	≤ 9.13	Pass

Note:

1) Antenna Output power(mW/MHz) = 10^{ Reading (dBm/MHz) / 10}/ Duty Cycle

2) Antenna Output Power Tolerance(%) = (Antenna Output power - Declared Power) / Declared Power * 100%

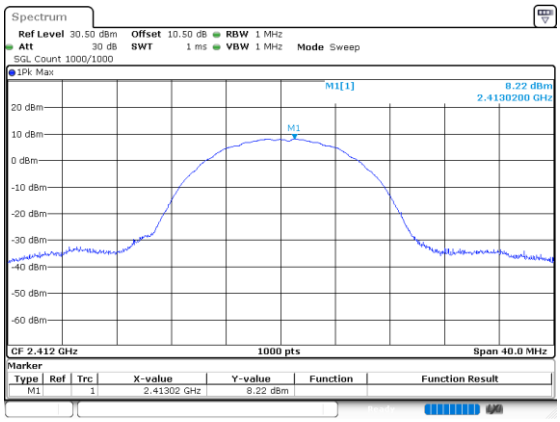
3) Antenna output power(dBm/MHz) = 10 * log10{Antenna Output Power(mW/MHz)}

4) EIRP(dBm/MHz) = Antenna output power(dBm/MHz) + Antenna gain.

Test Condition: NV

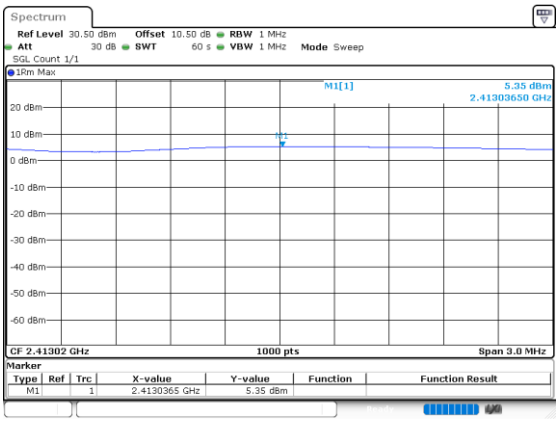
802.11b, Low Channel

Reference Power



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:05:08

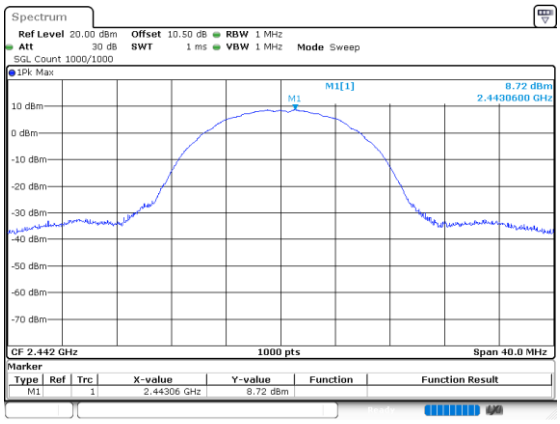
Power



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:06:14

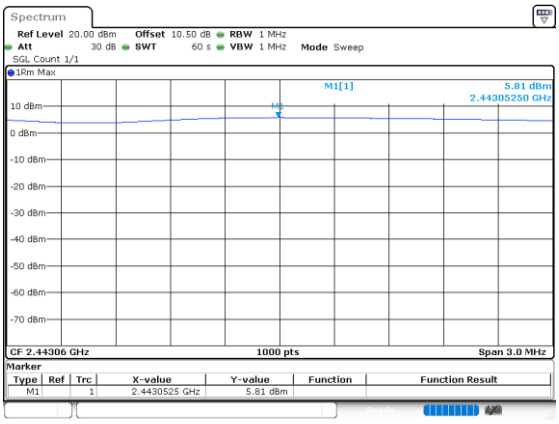
802.11b, Middle Channel

Reference Power



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:06:39

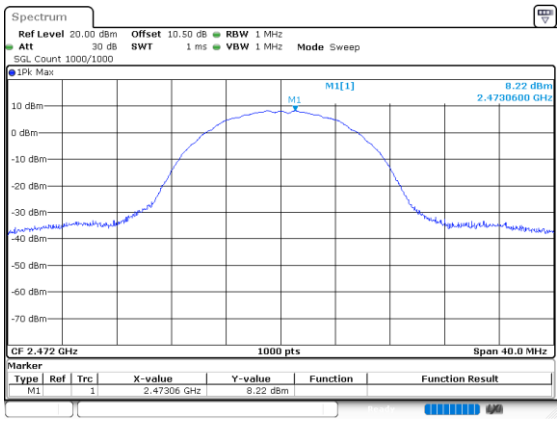
Power



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:07:45

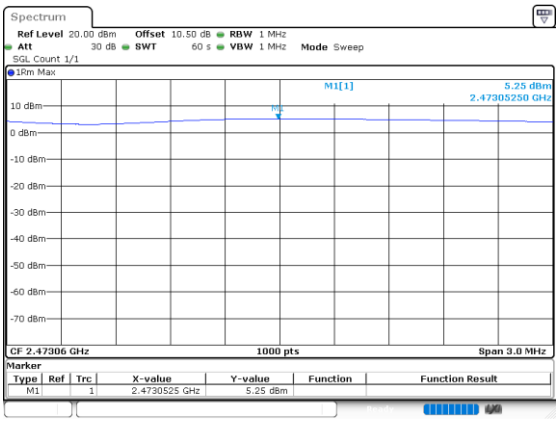
802.11b, High Channel

Reference Power



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:12:04

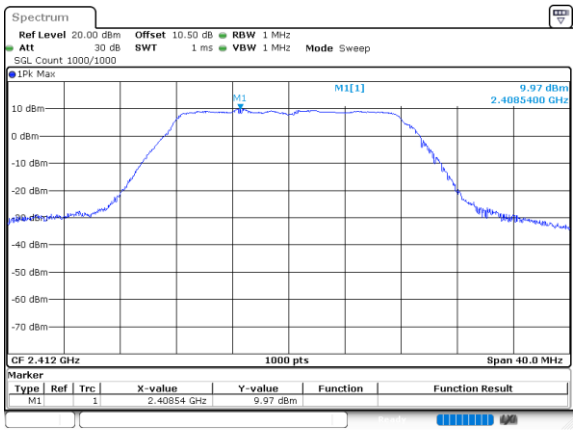
Power



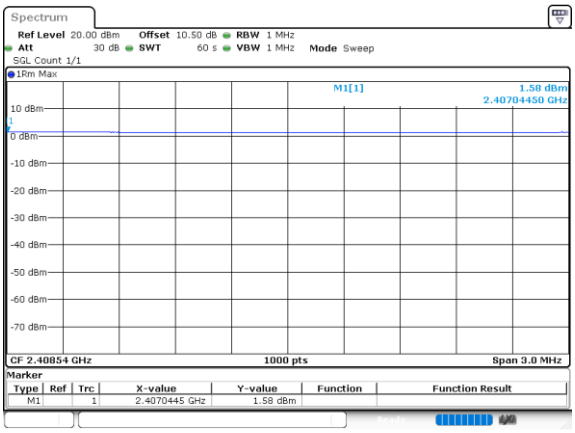
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:13:10

802.11g, Low Channel

Reference Power

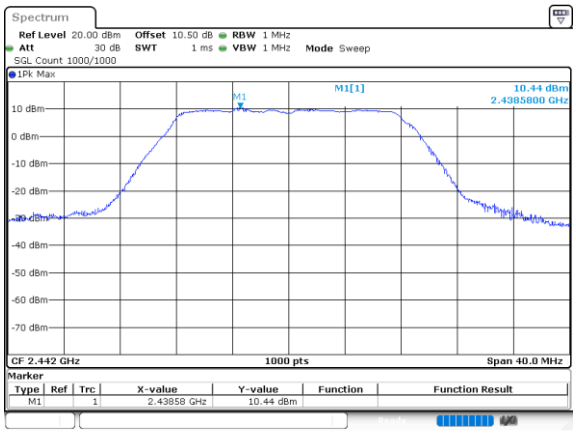


Power

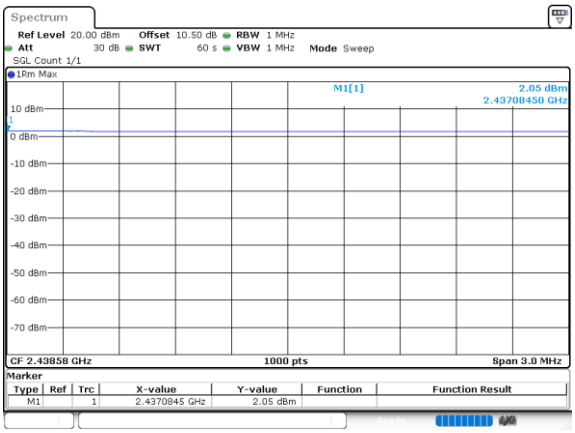


802.11g, Middle Channel

Reference Power

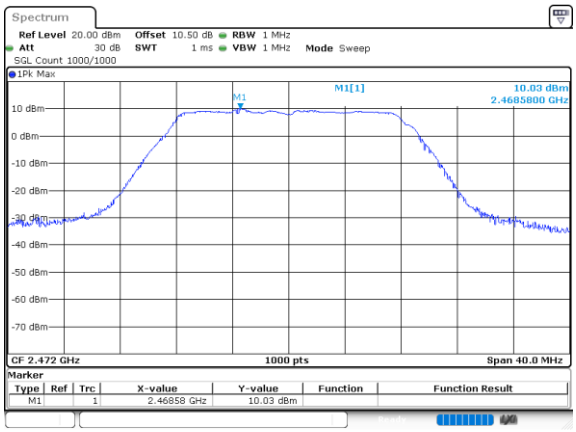


Power

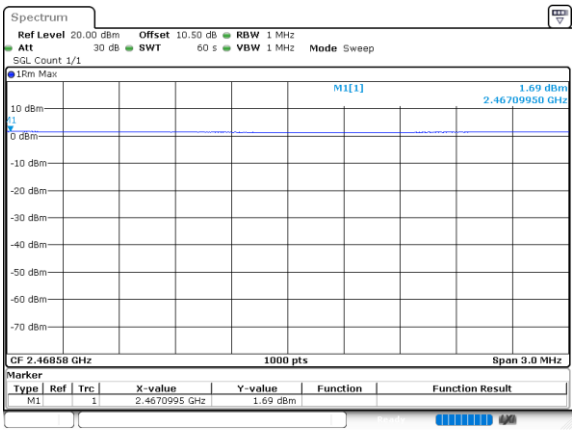


802.11g, High Channel

Reference Power

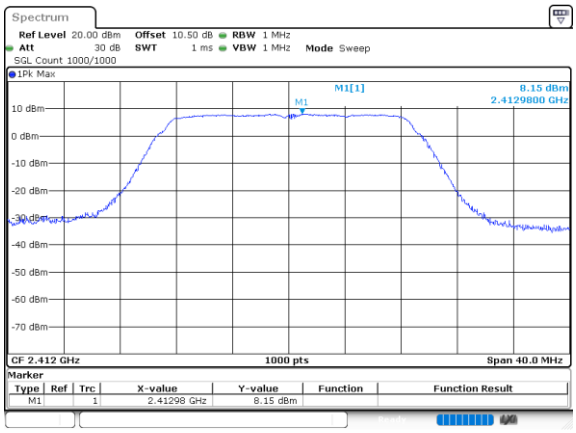


Power



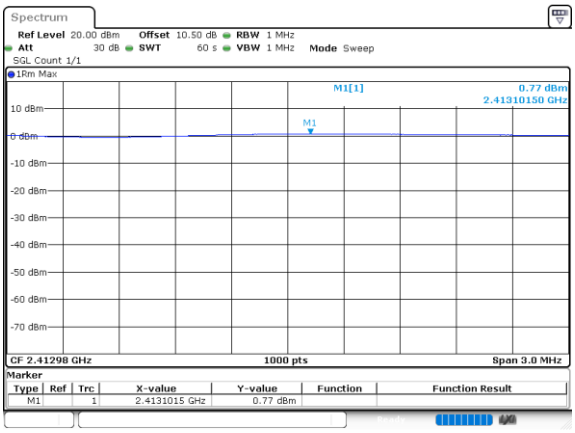
802.11n20, Low Channel

Reference Power



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:18:03

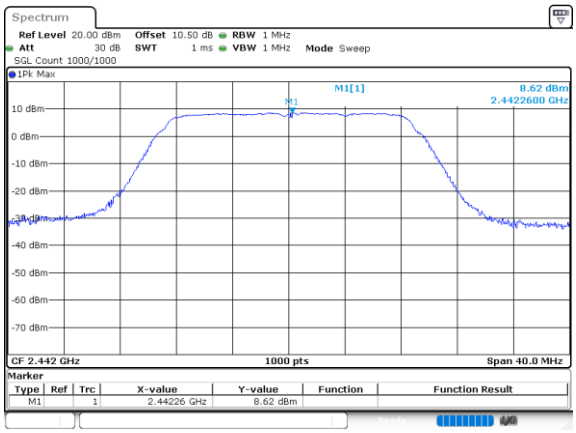
Power



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:19:09

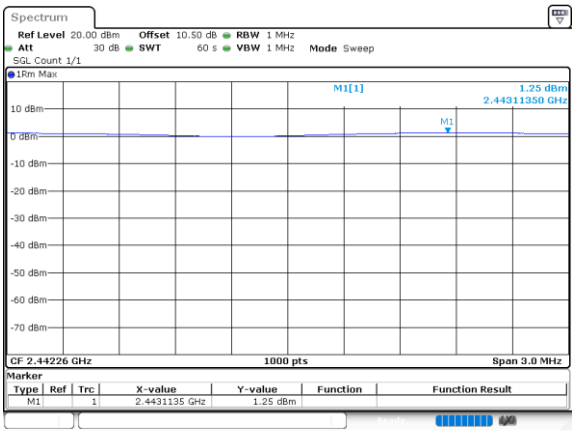
802.11n20, Middle Channel

Reference Power



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:19:27

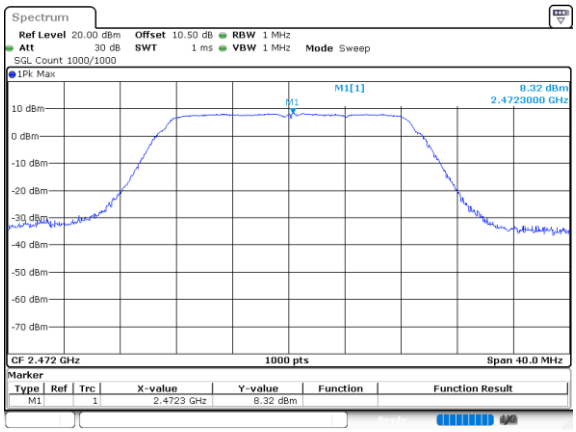
Power



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:20:33

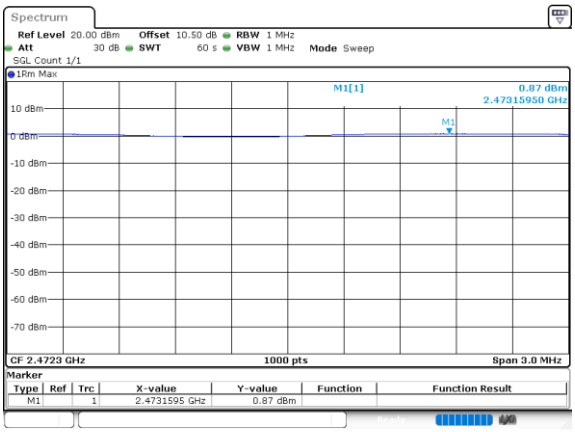
802.11n20, High Channel

Reference Power



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:20:51

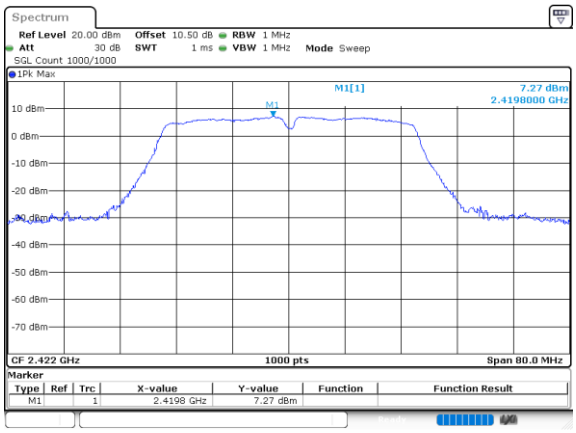
Power



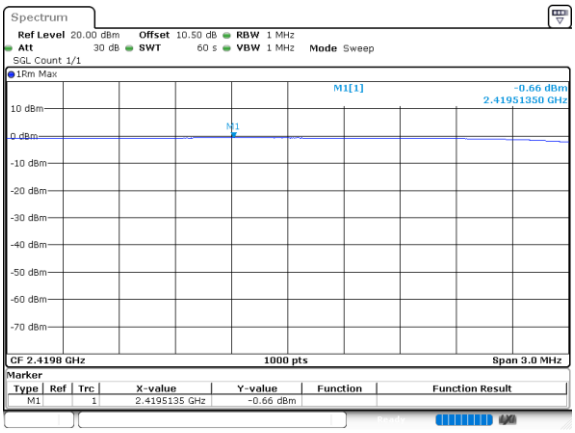
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:21:57

802.11n40, Low Channel

Reference Power

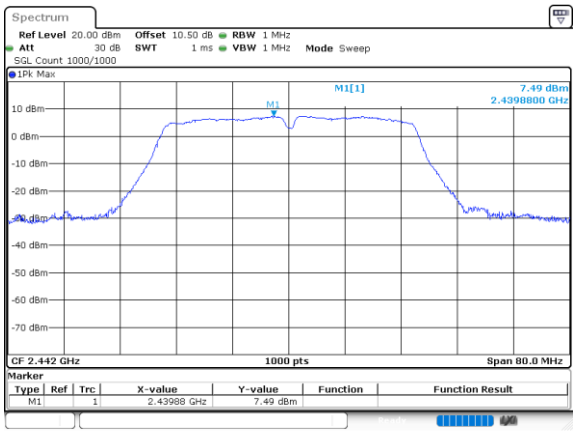


Power

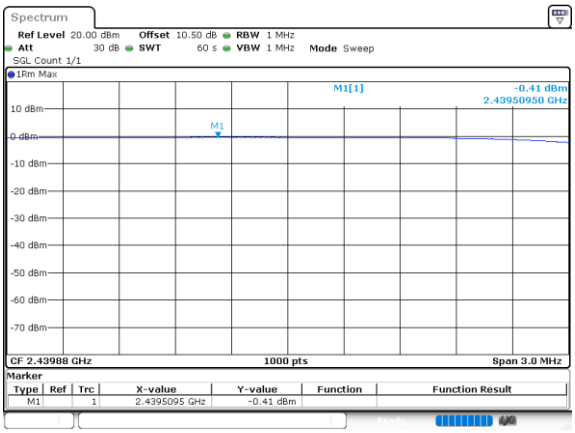


802.11n40, Middle Channel

Reference Power

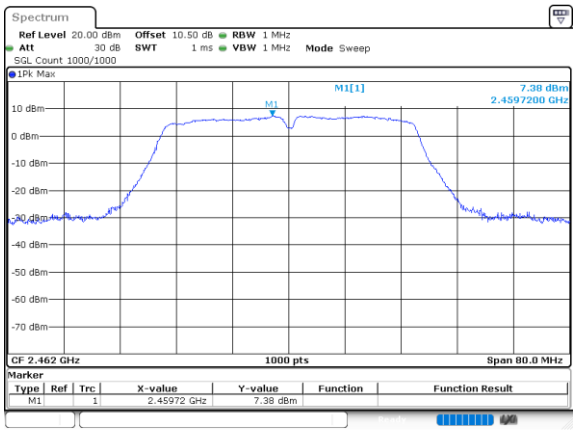


Power

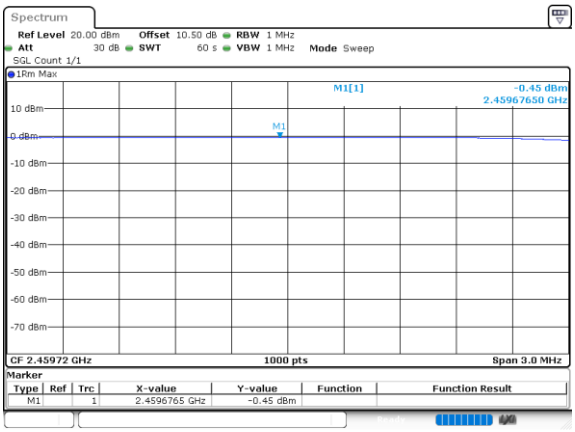


802.11n40, High Channel

Reference Power



Power



Receiver Spurious Emission and Unwanted Emission Intensity

Test Information:

Sample No.:	32J4-1	**Test Date:**	2025/05/21
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Cayde Hou	**Test Result:**	Pass

Environmental Conditions:

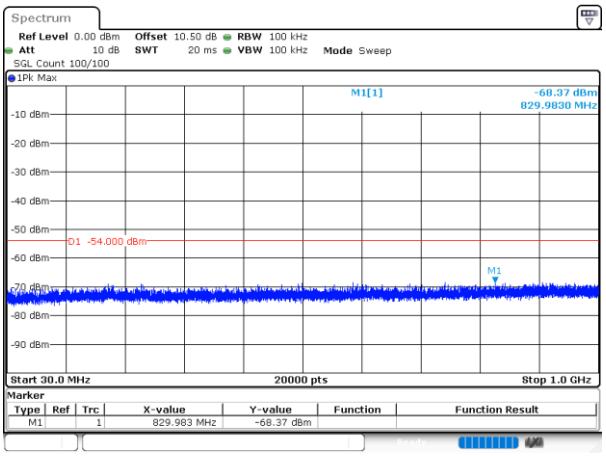
Temperature: (°C)	25.9	**Relative Humidity: (%)**	52	**ATM Pressure: (kPa)**	100.2

Test Condition: NV

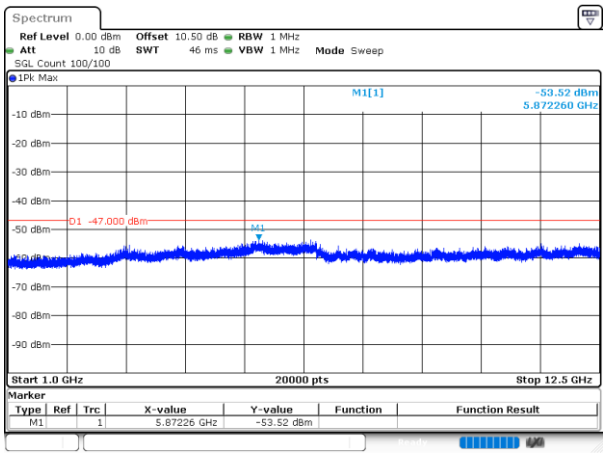
Mode	Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
			Start (MHz)	Stop (MHz)					
802.11b	Low	Band I (100kHz)	30	1000	829.983	-68.37	0.146	4	Pass
		Band II (1MHz)	1000	12500	5872.26	-53.52	4.446	20	Pass
	Middle	Band I (100kHz)	30	1000	864.03	-68.02	0.158	4	Pass
		Band II (1MHz)	1000	12500	5901.59	-53.63	4.335	20	Pass
	High	Band I (100kHz)	30	1000	852.875	-67.38	0.183	4	Pass
		Band II (1MHz)	1000	12500	5946.44	-53.29	4.688	20	Pass
802.11g	Low	Band I (100kHz)	30	1000	909.281	-68.05	0.157	4	Pass
		Band II (1MHz)	1000	12500	5891.81	-52.17	6.067	20	Pass
	Middle	Band I (100kHz)	30	1000	527.925	-68.11	0.155	4	Pass
		Band II (1MHz)	1000	12500	6412.76	-53.39	4.581	20	Pass
	High	Band I (100kHz)	30	1000	988.821	-67.77	0.167	4	Pass
		Band II (1MHz)	1000	12500	5969.44	-53.58	4.385	20	Pass
802.11n20	Low	Band I (100kHz)	30	1000	781.095	-68.27	0.149	4	Pass
		Band II (1MHz)	1000	12500	5896.99	-53.35	4.624	20	Pass
	Middle	Band I (100kHz)	30	1000	827.461	-66.72	0.213	4	Pass
		Band II (1MHz)	1000	12500	6856.09	-53.76	4.207	20	Pass
	High	Band I (100kHz)	30	1000	725.514	-67.59	0.174	4	Pass
		Band II (1MHz)	1000	12500	6863.56	-53.21	4.775	20	Pass
802.11n40	Low	Band I (100kHz)	30	1000	606.01	-67.44	0.180	4	Pass
		Band II (1MHz)	1000	12500	6980.29	-52.82	5.224	20	Pass
	Middle	Band I (100kHz)	30	1000	927.468	-67.24	0.189	4	Pass
		Band II (1MHz)	1000	12500	5838.34	-54.02	3.963	20	Pass
	High	Band I (100kHz)	30	1000	863.545	-68.38	0.145	4	Pass
		Band II (1MHz)	1000	12500	5837.76	-53.25	4.732	20	Pass

Test Condition: NV

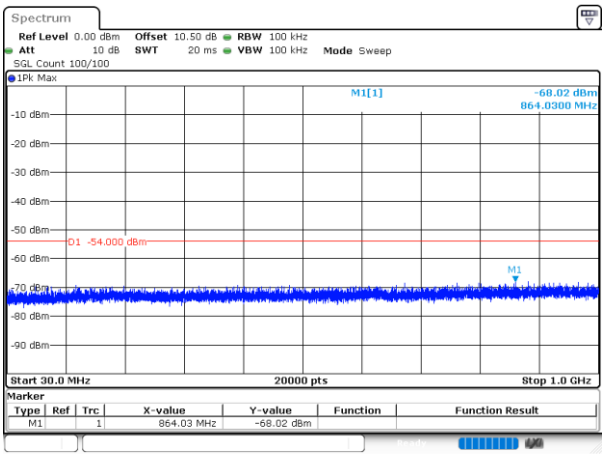
802.11b, Low Channel(30MHz~1GHz)



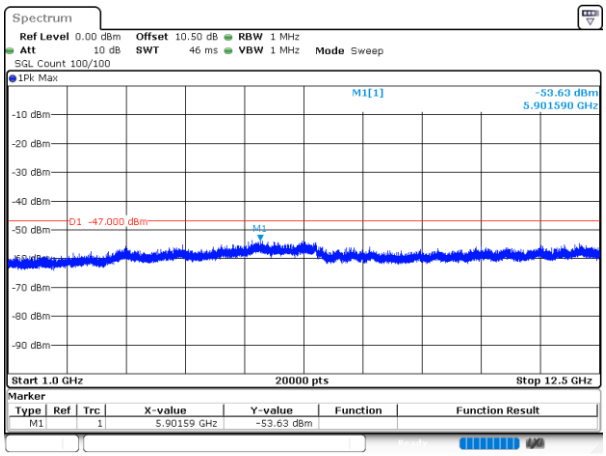
802.11b, Low Channel(1GHz~12.5GHz)



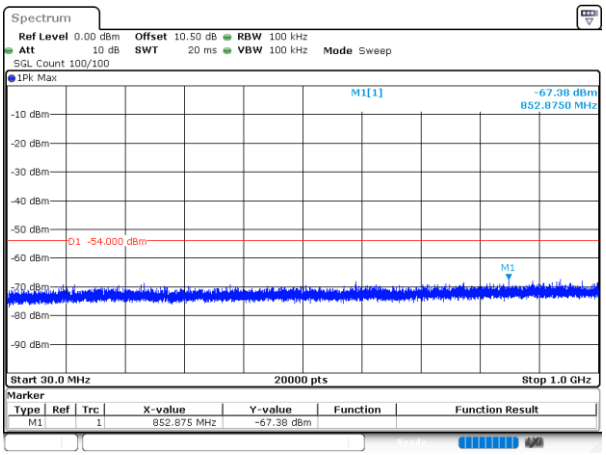
802.11b, Middle Channel(30MHz~1GHz)



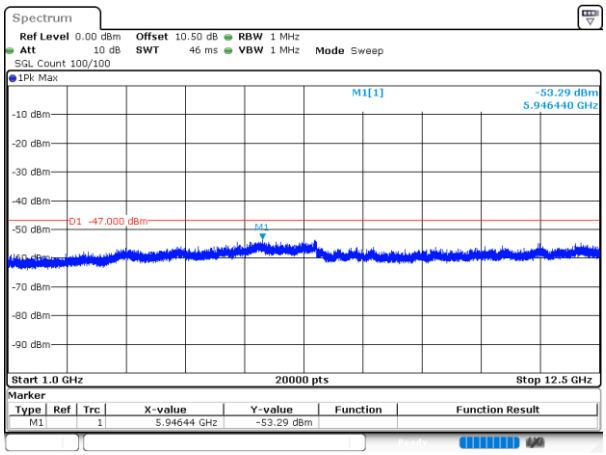
802.11b, Middle Channel(1GHz~12.5GHz)



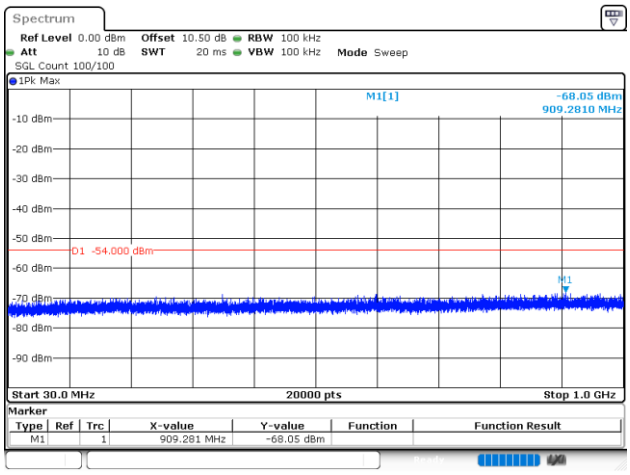
802.11b, High Channel(30MHz~1GHz)



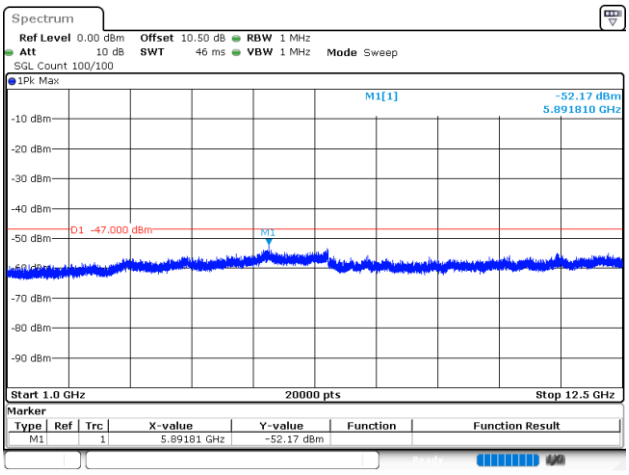
802.11b, High Channel(1GHz~12.5GHz)



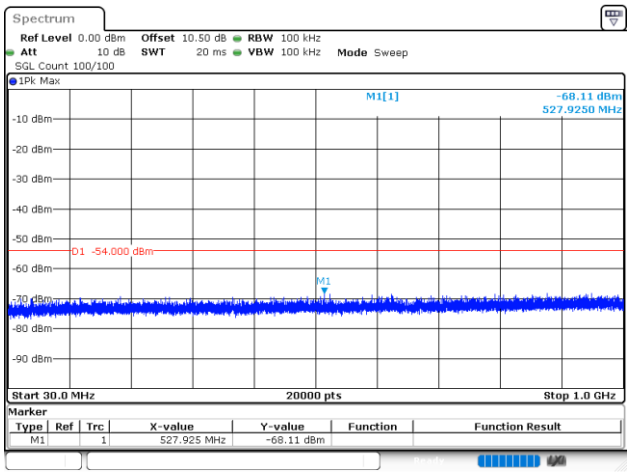
802.11g, Low Channel(30MHz~1GHz)



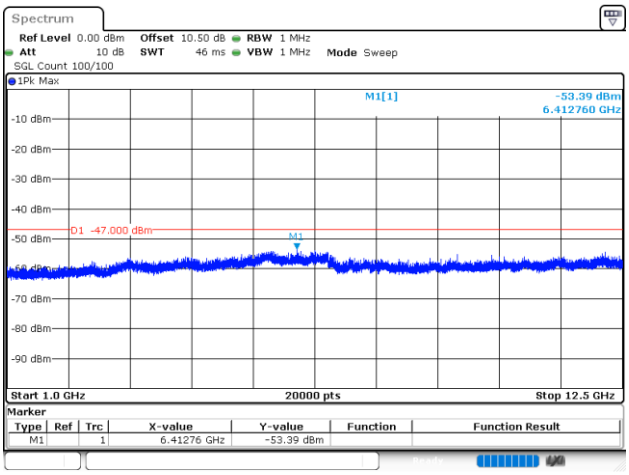
802.11g, Low Channel(1GHz~12.5GHz)



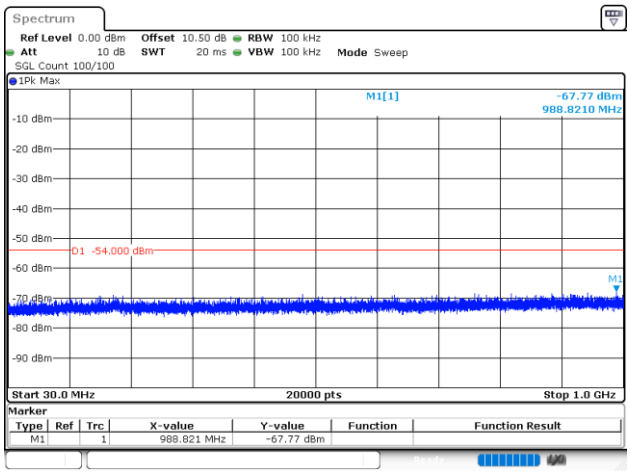
802.11g, Middle Channel(30MHz~1GHz)



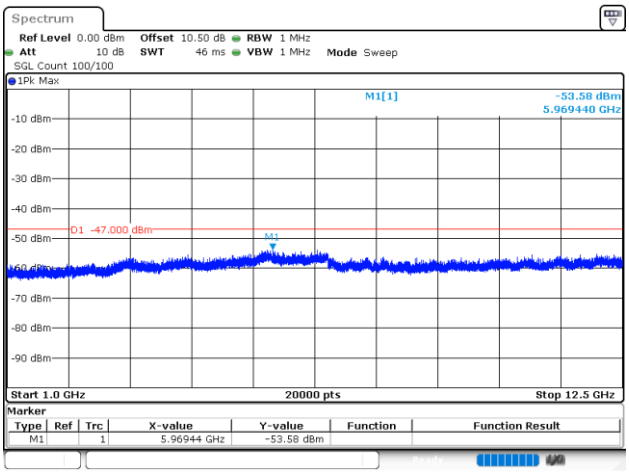
802.11g, Middle Channel(1GHz~12.5GHz)



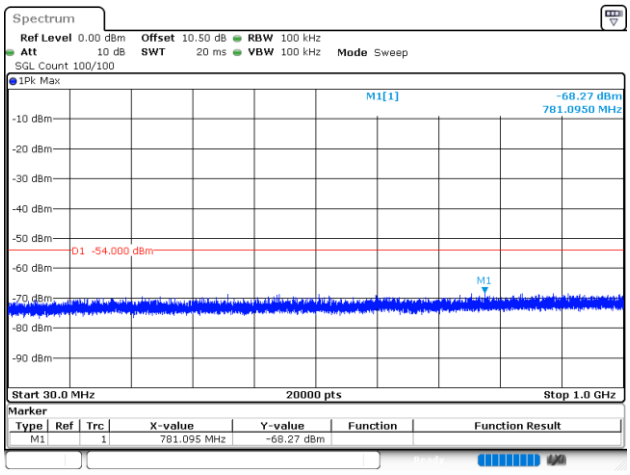
802.11g, High Channel(30MHz~1GHz)



802.11g, High Channel(1GHz~12.5GHz)

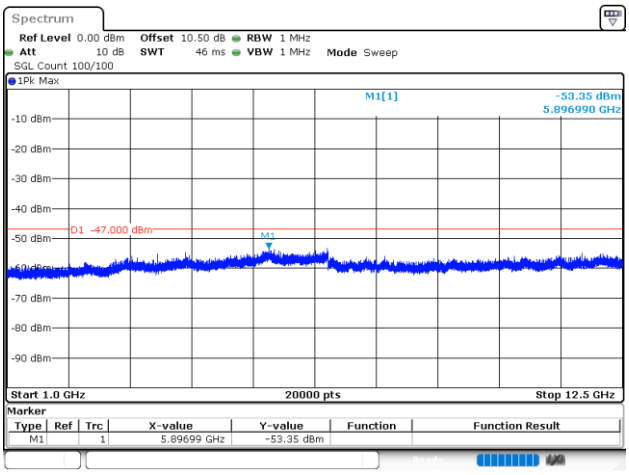


802.11n20, Low Channel(30MHz~1GHz)



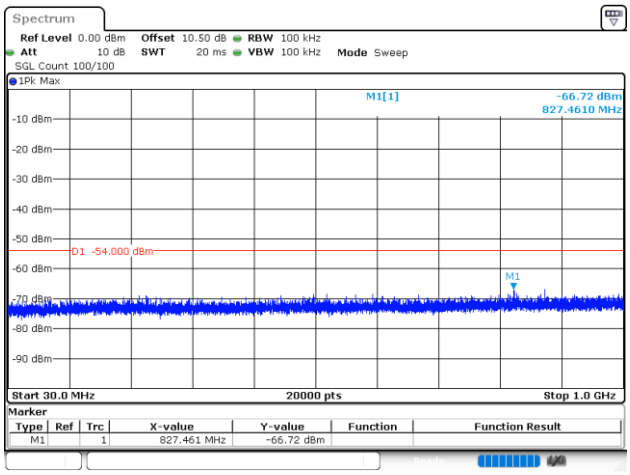
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:51:20

802.11n20, Low Channel(1GHz~12.5GHz)



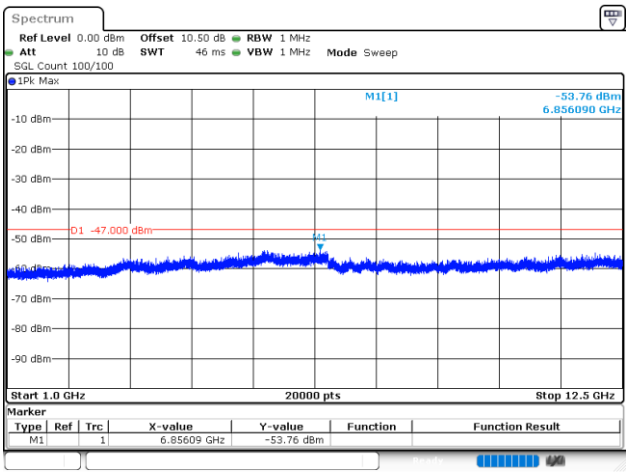
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:51:42

802.11n20, Middle Channel(30MHz~1GHz)



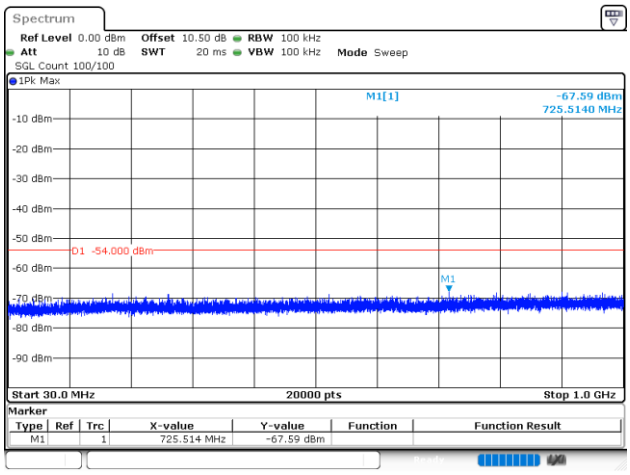
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:51:54

802.11n20, Middle Channel(1GHz~12.5GHz)



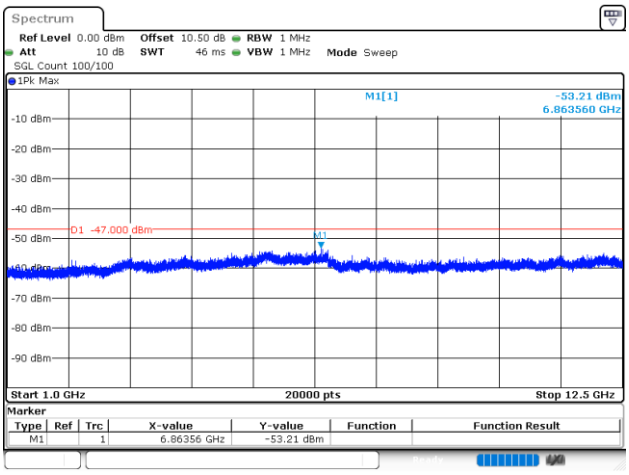
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:52:17

802.11n20, High Channel(30MHz~1GHz)



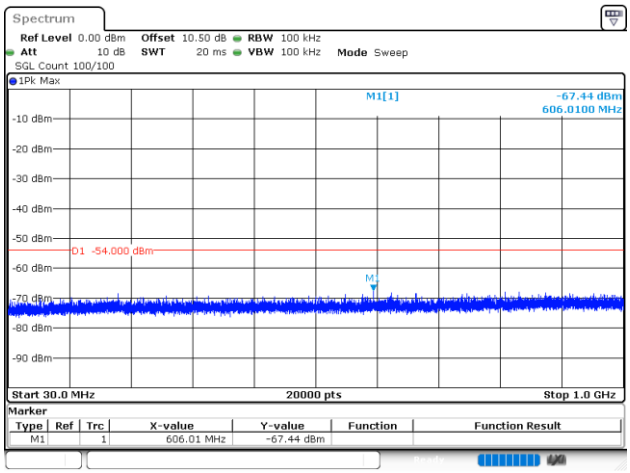
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:52:28

802.11n20, High Channel(1GHz~12.5GHz)



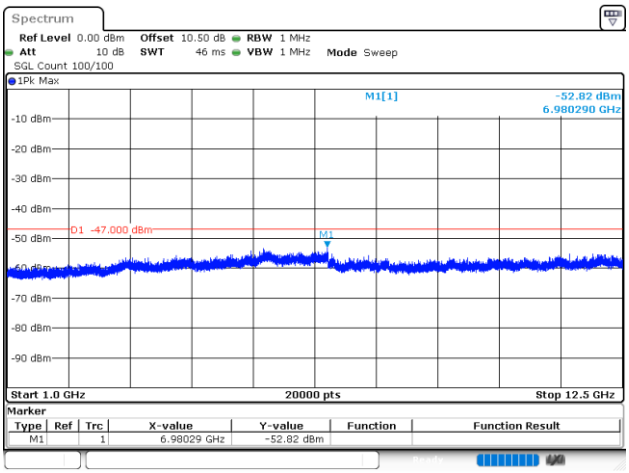
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:52:49

802.11n40, Low Channel(30MHz~1GHz)



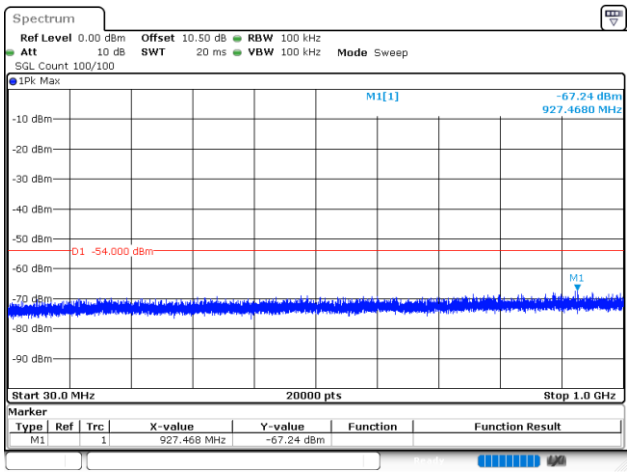
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:53:02

802.11n40, Low Channel(1GHz~12.5GHz)



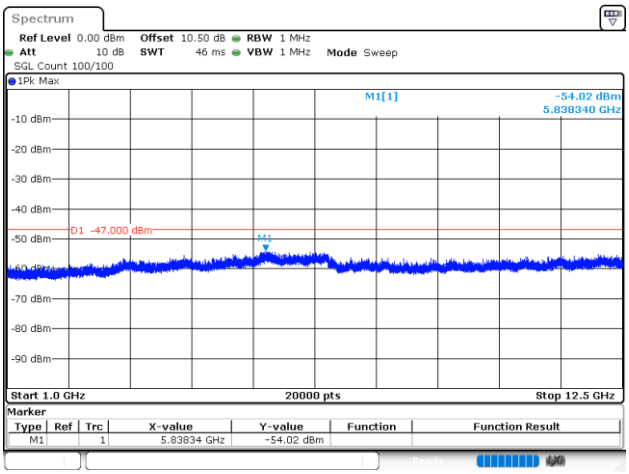
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:53:23

802.11n40, Middle Channel(30MHz~1GHz)



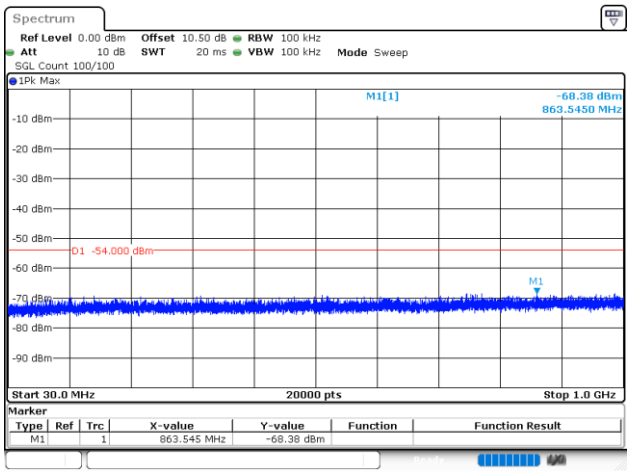
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:53:35

802.11n40, Middle Channel(1GHz~12.5GHz)



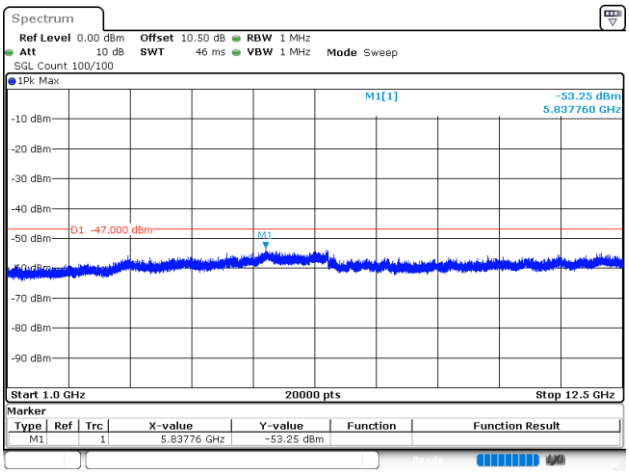
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:53:57

802.11n40, High Channel(30MHz~1GHz)



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:54:13

802.11n40, High Channel(1GHz~12.5GHz)



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 13:54:34

Carrier Sense Capability

Test Information:

Sample No.:	32J4-1	**Test Date:**	2025/05/28
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Cayde Hou	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.2	**Relative Humidity: (%)**	53	**ATM Pressure: (kPa)**	100.2

Test Result: Compliance.

Interference Prevention Function

Test Information:

Sample No.:	32J4-1	**Test Date:**	2025/05/28
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Cayde Hou	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.2	**Relative Humidity: (%)**	53	**ATM Pressure: (kPa)**	100.2

Test Result: Good.

Duty Cycle

Test Information:

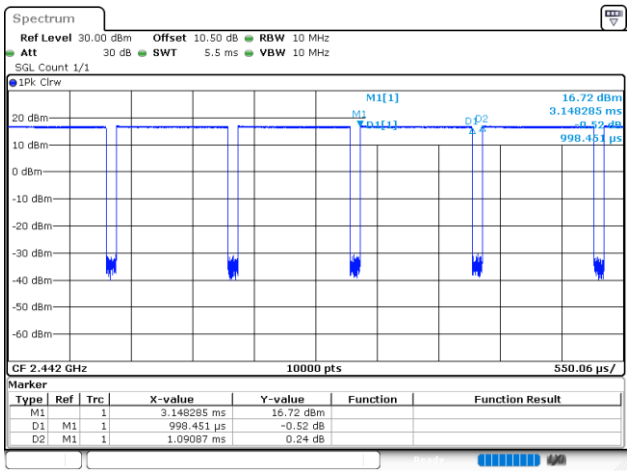
Sample No.:	32J4-1	**Test Date:**	2025/05/21
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Cayde Hou	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.9	**Relative Humidity: (%)**	52	**ATM Pressure: (kPa)**	100.2

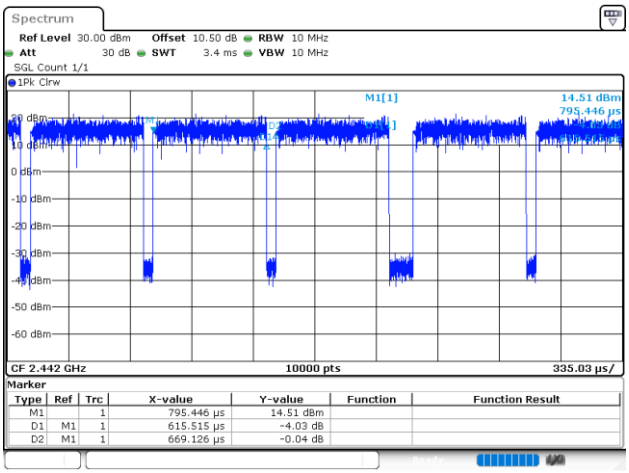
Mode	Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty cycle (%)
802.11b	2442	0.998	1.091	91.48
802.11g	2442	0.616	0.669	92.08
802.11n20	2442	0.611	0.665	91.88
802.11n40	2442	0.611	0.665	91.88

802.11b, 2442MHz



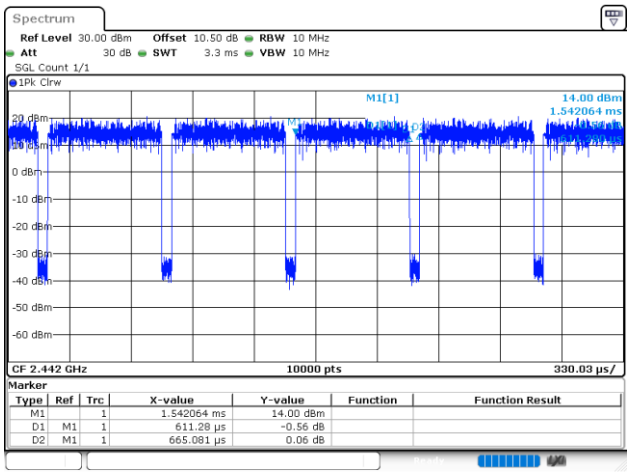
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:02:15

802.11g, 2442MHz



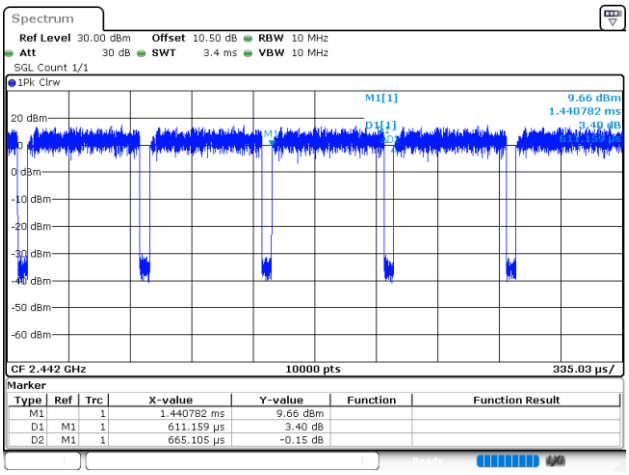
ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:02:39

802.11n20, 2442MHz



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:03:02

802.11n40, 2442MHz



ProjectNo.:2504T20282E-RF Tester:Cayde Hou
Date: 21.MAY.2025 14:03:26

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the Attachment: 2504T20282E-RF EUT EXTERNAL PHOTOGRAPHS and 2504T20282E-RF EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the Attachment: 2504T20282E-RF-07B TEST SETUP PHOTOGRAPHS.

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