

FCC PART 15.407

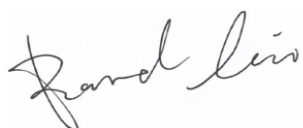
TEST REPORT

For

**WISEASY TECHNOLOGY PTE. LTD.**

70 Anson Road, #18-02, Hub Synergy Point, Singapore 079905

**FCC ID: 2BFPO-P053**

|                                        |                                                                                                                                                                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Type:</b><br>Original Report | <b>Product Name:</b><br>EMV Android POS                                                                                                                                                                                     |
| <b>Report Number:</b>                  | RKSA250707003-00D                                                                                                                                                                                                           |
| <b>Report Date:</b>                    | 2025-08-29                                                                                                                                                                                                                  |
| <b>Reviewed By:</b>                    | Bard Liu<br>                                                                                                                            |
| <b>Approved By:</b>                    | Kyle Xu<br>                                                                                                                             |
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S. Government.

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REPORT REVISION HISTORY

| Number of Revisions | Report No.        | Version | Issue Date | Description     |
|---------------------|-------------------|---------|------------|-----------------|
| 0                   | RKSA250707003-00D | R1V1    | 2025-08-29 | Initial Release |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                              |                                                                       |              |
|------------------------------|-----------------------------------------------------------------------|--------------|
| Applicant                    | WISEASY TECHNOLOGY PTE. LTD.                                          |              |
| Tested Model                 | P053                                                                  |              |
| Product Name                 | EMV Android POS                                                       |              |
| Power Supply                 | DC 7.4V from battery or DC 5V charging by adapter                     |              |
| Maximum Average Output Power | 5G Wi-Fi B1:                                                          | 5G Wi-Fi B4: |
|                              | 802.11a: 13.68dBm                                                     | 14.40 dBm    |
|                              | 802.11ac20: 13.64 dBm                                                 | 12.96 dBm    |
|                              | 802.11ac40: 11.27 dBm                                                 | 13.56 dBm    |
|                              | 802.11ac80: 10.94 dBm                                                 | 13.56 dBm    |
| Operating Frequency          | B1: 5180-5240 MHz, B4: 5745-5825 MHz                                  |              |
| Channel Number               | B1: 7; B4: 8                                                          |              |
| Channel Separation           | 802.11 a/ac20/n20: 20 MHz; 802.11ac40/n40: 40 MHz; 802.11ac80: 80 MHz |              |
| Modulation Type              | OFDM                                                                  |              |
| Antenna Type                 | FPC Antenna                                                           |              |
| ★Maximum Antenna Gain        | Band 1: 0.92 dBi<br>Band 4: 1.74 dBi                                  |              |

#### Adapter Information:

Model: TPA-418G050200UU01

Input: 100-240V, 50/60Hz, 0.3A

Output: 5.0V, 2.0A 10.0W

*Note: The maximum antenna gain was declared by the manufacturer.*

*All measurement and test data in this report was gathered from production sample serial number: RKSA250707003-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-07-07.)*

### Objective

This type approval report is prepared for *WISEASY TECHNOLOGY PTE. LTD.* in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions' rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

**Measurement Uncertainty**

| Item                               |                | Uncertainty |
|------------------------------------|----------------|-------------|
| AC Power Lines Conducted Emissions |                | 3.19 dB     |
| RF conducted test with spectrum    |                | 0.9dB       |
| RF Output Power with Power meter   |                | 0.5dB       |
| Radiated emission                  | 9 kHz~150 kHz  | 3.8dB       |
|                                    | 150 kHz~30 MHz | 3.4dB       |
|                                    | 30MHz~1GHz     | 6.11dB      |
|                                    | 1GHz~6GHz      | 4.45dB      |
|                                    | 6GHz~18GHz     | 5.23dB      |
|                                    | 18GHz~40GHz    | 5.65dB      |
| Occupied Bandwidth                 |                | 0.5kHz      |
| Temperature                        |                | 1.0℃        |
| Humidity                           |                | 6%          |

**Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

The system support 802.11a/n20/n40/ac20/ac40/ ac80, the 802.11 n20/n40 were reduced since the identical parameters with 802.11ac20 and ac40.

For **5150~5250 MHz** band, test channel list is as below,

802.11a/ac20 mode Channel 36, 40, 48 were tested.

802.11ac40 mode Channel 38, 46 were tested.

802.11ac80 mode Channel 42 was tested.

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 36      | 5180            | 44      | 5220            |
| 38      | 5190            | 46      | 5230            |
| 40      | 5200            | 48      | 5240            |
| 42      | 5210            | /       | /               |

For **5725~5850 MHz** band,

802.11a/ac20 mode Channel 149, 157, 165 were tested.

802.11ac40 mode Channel 151, 159 were tested.

802.11ac80 mode Channel 155 was tested.

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 149     | 5745            | 159     | 5795            |
| 151     | 5755            | 161     | 5805            |
| 153     | 5765            | 165     | 5825            |
| 155     | 5775            | /       | /               |
| 157     | 5785            | /       | /               |

**EUT Exercise Software**

Engineering Mode

The worst case was performed under:

| U-NII        | Mode           | Data rate | ★Power Level |                |              |
|--------------|----------------|-----------|--------------|----------------|--------------|
|              |                |           | Low Channel  | Middle Channel | High Channel |
| 5150~5250MHz | 802.11a        | 6Mbps     | 16           | 16             | 16           |
|              | 802.11ac-VHT20 | MCS0      | 16           | 16             | 16           |
|              | 802.11ac-VHT40 | MCS0      | 13           | /              | 13           |
|              | 802.11ac-VHT80 | MCS0      | /            | 12             | /            |

| U-NII        | Mode           | Data rate | ★Power Level |                |              |
|--------------|----------------|-----------|--------------|----------------|--------------|
|              |                |           | Low Channel  | Middle Channel | High Channel |
| 5725~5850MHz | 802.11a        | 6Mbps     | 17           | 16             | 16           |
|              | 802.11ac-VHT20 | MCS0      | 16           | 16             | 16           |
|              | 802.11ac-VHT40 | MCS0      | 17           | /              | 17           |
|              | 802.11ac-VHT80 | MCS0      | /            | 17             | /            |

Note: The power level was declared by the applicant.

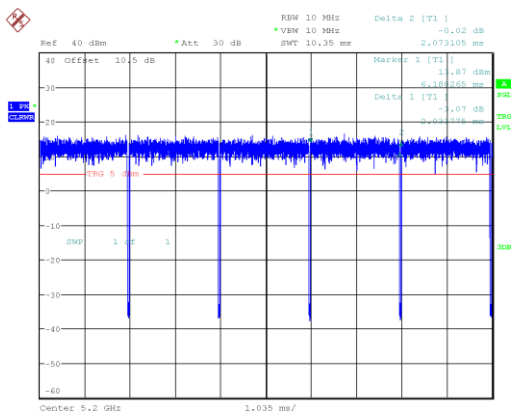


Duty Cycle:

Environmental Conditions

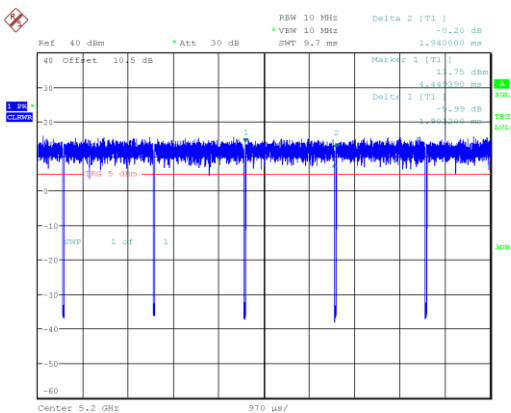
|                    |                          |
|--------------------|--------------------------|
| Test Date:         | 2025-07-23 to 2025-07-24 |
| Temperature:       | 24.5-24.7 °C             |
| Relative Humidity: | 52-54 %                  |
| ATM Pressure:      | 100.6-101.5kPa           |
| Test Engineer:     | Jason Lu                 |

5150MHz-5250MHz Band:  
802.11a mode



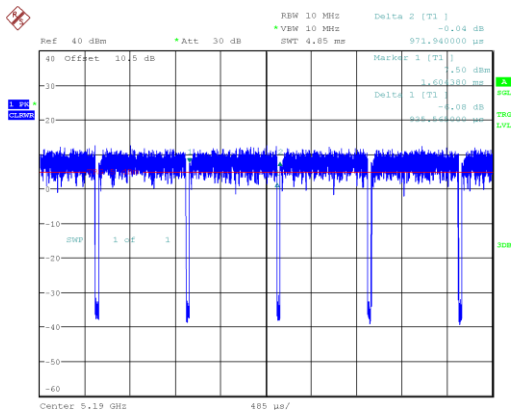
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 23.JUL.2025 19:48:35

802.11ac20 mode



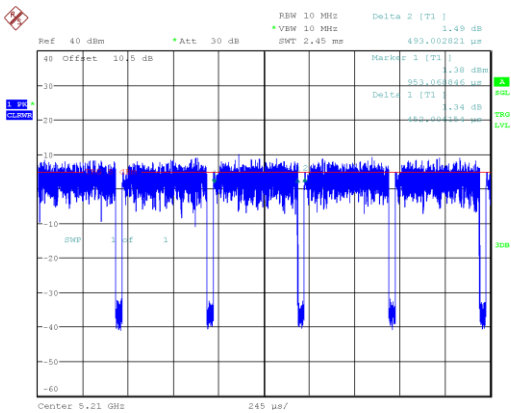
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Date: 24.JUL.2025 10:29:55

802.11ac40 mode

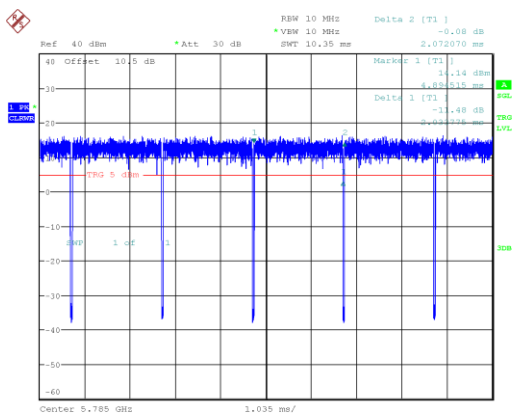


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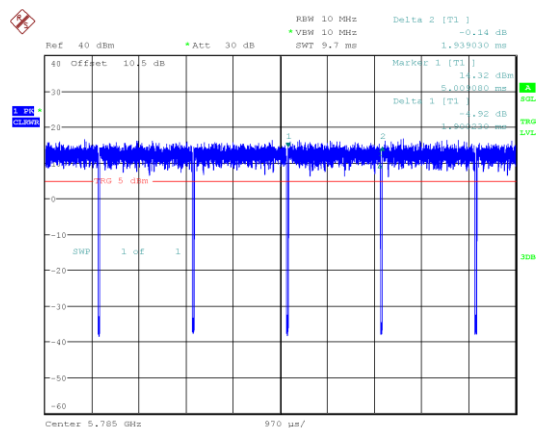
802.11ac80 mode



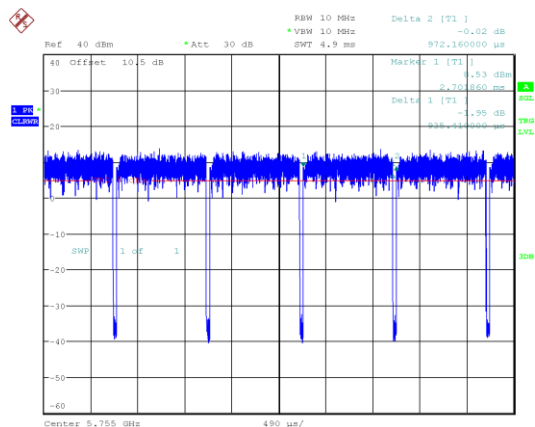
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 10:52:15

**5725MHz-5850MHz Band:****802.11a mode**

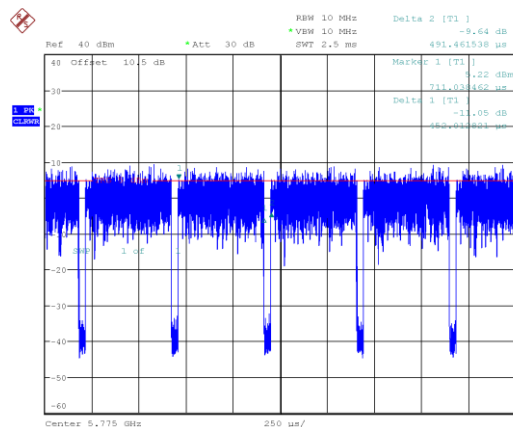
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:04:00

**802.11ac20 mode**

ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:17:40

**802.11ac40 mode**

ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:26:14

**802.11ac80 mode**

ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:45:21

Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

*5150MHz-5250MHz:*

| Mode       | Test Frequency (MHz) | Ton (ms) | Ton+Toff (ms) | Duty Cycle (%) | Duty Cycle Factor(dB) |
|------------|----------------------|----------|---------------|----------------|-----------------------|
| 802.11a    | 5200                 | 2.034    | 2.073         | 98.12          | /                     |
| 802.11ac20 | 5200                 | 1.901    | 1.940         | 97.99          | 0.09                  |
| 802.11ac40 | 5190                 | 0.936    | 0.972         | 96.30          | 0.16                  |
| 802.11ac80 | 5210                 | 0.452    | 0.493         | 91.68          | 0.38                  |

*5725MHz-5850MHz:*

| Mode       | Test Frequency (MHz) | Ton (ms) | Ton+Toff (ms) | Duty Cycle (%) | Duty Cycle Factor(dB) |
|------------|----------------------|----------|---------------|----------------|-----------------------|
| 802.11a    | 5785                 | 2.034    | 2.072         | 98.17          | /                     |
| 802.11ac20 | 5785                 | 1.900    | 1.939         | 97.99          | 0.09                  |
| 802.11ac40 | 5755                 | 0.935    | 0.972         | 96.19          | 0.17                  |
| 802.11ac80 | 5775                 | 0.452    | 0.491         | 92.06          | 0.36                  |

## Equipment Modifications

No modification was made to the EUT.

## Support Equipment List and Details

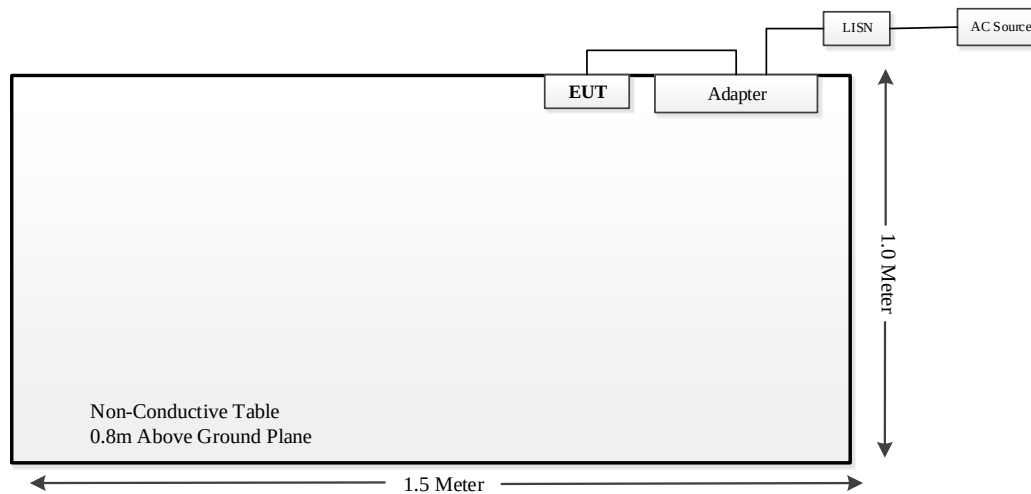
| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| /            | /           | /     | /             |

## External I/O Cable

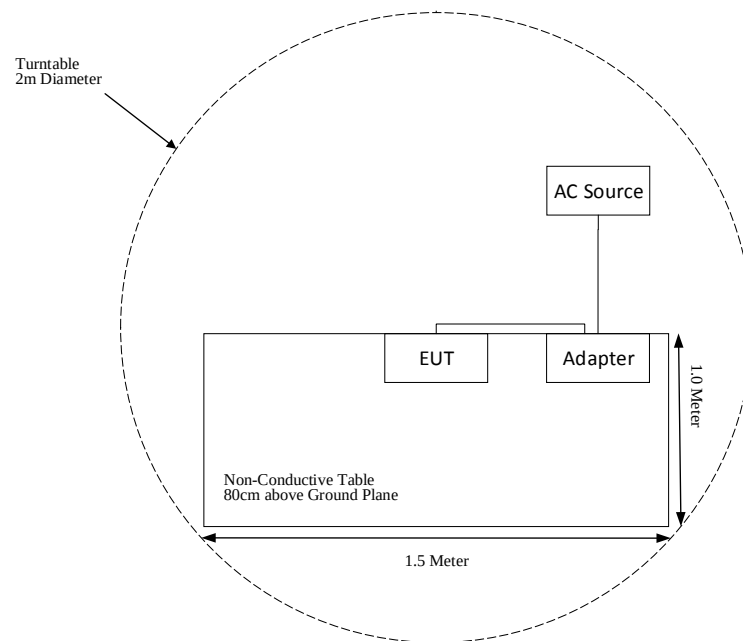
| Cable Description | Length (m) | From Port      | To Port |
|-------------------|------------|----------------|---------|
| Power Cable       | 1.5        | AC Source/LISN | Adapter |
| USB Cable         | 1.0        | Adapter        | EUT     |

## Block Diagram of Test Setup

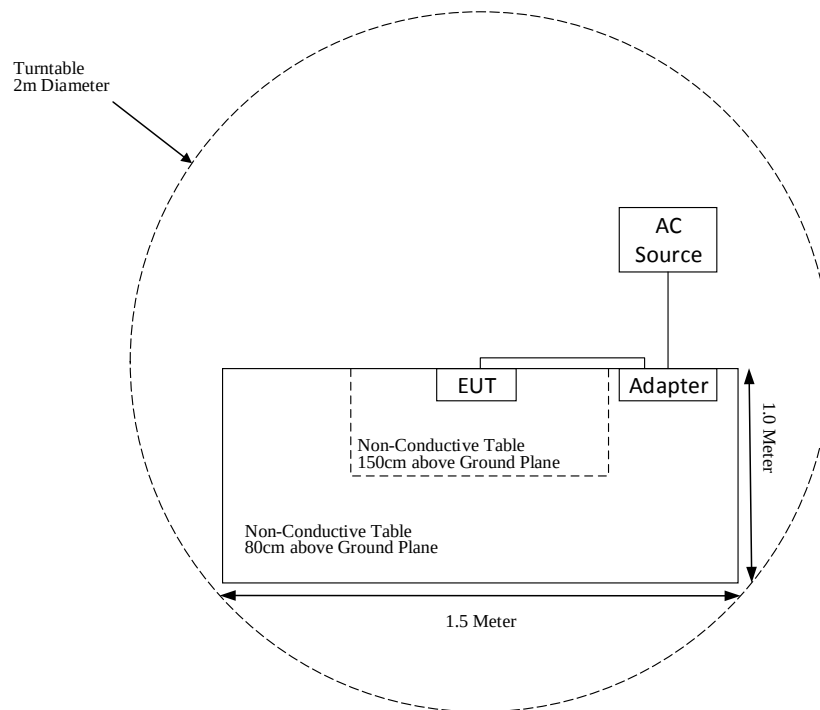
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1 GHz):



## TEST EQUIPMENT LIST

| Manufacturer                               | Description         | Model     | Serial Number | Calibration Date | Calibration Due Date |
|--------------------------------------------|---------------------|-----------|---------------|------------------|----------------------|
| <b>Radiated Emission Test (Chamber #1)</b> |                     |           |               |                  |                      |
| Rohde & Schwarz                            | EMI Test Receiver   | ESCI      | 100195        | 2025-04-09       | 2026-04-08           |
| Sunol Sciences                             | Broadband Antenna   | JB3       | A090314-1     | 2024-11-08       | 2027-11-07           |
| Narda                                      | 6dB Attenuator      | 773-6     | 10690812-2-1  | 2024-11-08       | 2027-11-07           |
| BACL                                       | Active Loop Antenna | 1313-1A   | 4041511       | 2024-11-22       | 2027-11-21           |
| Sonoma Instrument                          | Pre-amplifier       | 310N      | 171205        | 2025-04-09       | 2026-04-08           |
| Rohde & Schwarz                            | Auto Test Software  | EMC32     | 100361        | N/A              | N/A                  |
| MICRO-COAX                                 | Coaxial Cable       | Cable-8   | 008           | 2025-04-09       | 2026-04-08           |
| MICRO-COAX                                 | Coaxial Cable       | Cable-9   | 009           | 2025-04-09       | 2026-04-08           |
| MICRO-COAX                                 | Coaxial Cable       | Cable-10  | 010           | 2025-04-09       | 2026-04-08           |
| <b>Radiated Emission Test (Chamber #2)</b> |                     |           |               |                  |                      |
| Rohde & Schwarz                            | EMI Test Receiver   | ESU40     | 100207/040    | 2025-04-09       | 2026-04-08           |
| ETS-LINDGREN                               | Horn Antenna        | 3115      | 9311-4159     | 2024-12-02       | 2025-12-01           |
| ETS-LINDGREN                               | Horn Antenna        | 3116      | 2516          | 2024-12-12       | 2027-12-11           |
| A.H.Systems, inc                           | Amplifier           | PAM-0118P | 512           | 2025-04-09       | 2026-04-08           |
| SELECTOR                                   | Amplifier           | EM18G40G  | 060726        | 2025-04-09       | 2026-04-08           |
| MICRO-TRONICS                              | Band Reject Filter  | BRM50716  | G059          | 2024-08-05       | 2025-08-04           |
| Narda                                      | Attenuator          | 10dB      | 010           | 2025-04-08       | 2026-04-07           |
| Rohde & Schwarz                            | Auto test Software  | EMC32     | 100361        | N/A              | N/A                  |
| MICRO-COAX                                 | Coaxial Cable       | Cable-6   | 006           | 2025-04-09       | 2026-04-08           |
| MICRO-COAX                                 | Coaxial Cable       | Cable-11  | 011           | 2025-04-09       | 2026-04-08           |
| MICRO-COAX                                 | Coaxial Cable       | Cable-12  | 012           | 2025-04-09       | 2026-04-08           |
| MICRO-COAX                                 | Coaxial Cable       | Cable-13  | 013           | 2025-04-09       | 2026-04-08           |
| <b>RF Conducted Test</b>                   |                     |           |               |                  |                      |
| Rohde & Schwarz                            | Spectrum Analyzer   | FSU26     | 200103        | 2025-04-09       | 2026-04-08           |
| Narda                                      | Attenuator          | 10dB      | 010           | 2025-04-08       | 2026-04-07           |
| Anritsu                                    | Power Sensor        | MA24418A  | 12621         | 2025-04-09       | 2026-04-08           |
| XHFDZ                                      | RG316 Coaxial Cable | SMA-316   | XHF-1175      | Each time        | N/A                  |

| Conducted Emission Test |                   |          |                        |            |            |
|-------------------------|-------------------|----------|------------------------|------------|------------|
| Rohde & Schwarz         | EMI Test Receiver | ESR      | 1316.3003K03-101746-zn | 2025-04-08 | 2026-04-07 |
| Rohde & Schwarz         | LISN              | ENV216   | 101115                 | 2025-04-08 | 2026-04-07 |
| Audix                   | Test Software     | e3       | V9                     | N/A        | N/A        |
| Rohde & Schwarz         | Pulse limiter     | ESH3-Z2  | 100552                 | 2025-04-08 | 2026-04-07 |
| MICRO-COAX              | Coaxial Cable     | Cable-15 | 015                    | 2025-04-08 | 2026-04-07 |

**Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

**SUMMARY OF TEST RESULTS**

| <b>FCC Rules</b>                | <b>Description of Test</b>              | <b>Result</b> |
|---------------------------------|-----------------------------------------|---------------|
| §15.203                         | Antenna Requirement                     | Compliant     |
| §15.207 & §15.407(b) (9)        | AC Power Line Conducted Emissions       | Compliant     |
| § 15.205 & §15.209 & §15.407(b) | Undesirable Emission & Restricted Bands | Compliant     |
| §§15.407(a) & §15.407(e)        | Emission Bandwidth                      | Compliant     |
| §15.407(a)                      | Conducted Transmitter Output Power      | Compliant     |
| §15.407(a)                      | Power Spectral Density                  | Compliant     |
| §1.1307(b)(1)& §2.1093          | RF EXPOSURE                             | Compliant     |



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## **FCC §1.1307(b) & §2.1093 - RF EXPOSURE**

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### **Applicable Standard**

FCC§1.1307, §2.1093.

### **Measurement Result**

**Result:** Please refer to the SAR report: RKSA250707003-20B.

## FCC §15.203 – ANTENNA REQUIREMENT

### Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407, if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### Antenna Connector Construction

Antenna permanently attached to the unit. fulfill the requirement of this section. Please refer to the EUT photos.

| Antenna Type | Frequency Range | Max. Antenna Gain | Input impedance |
|--------------|-----------------|-------------------|-----------------|
| FPC          | 5150~5250 MHz   | 0.92 dBi          | 50Ω             |
|              | 5725~5850 MHz   | 1.74 dBi          | 50Ω             |

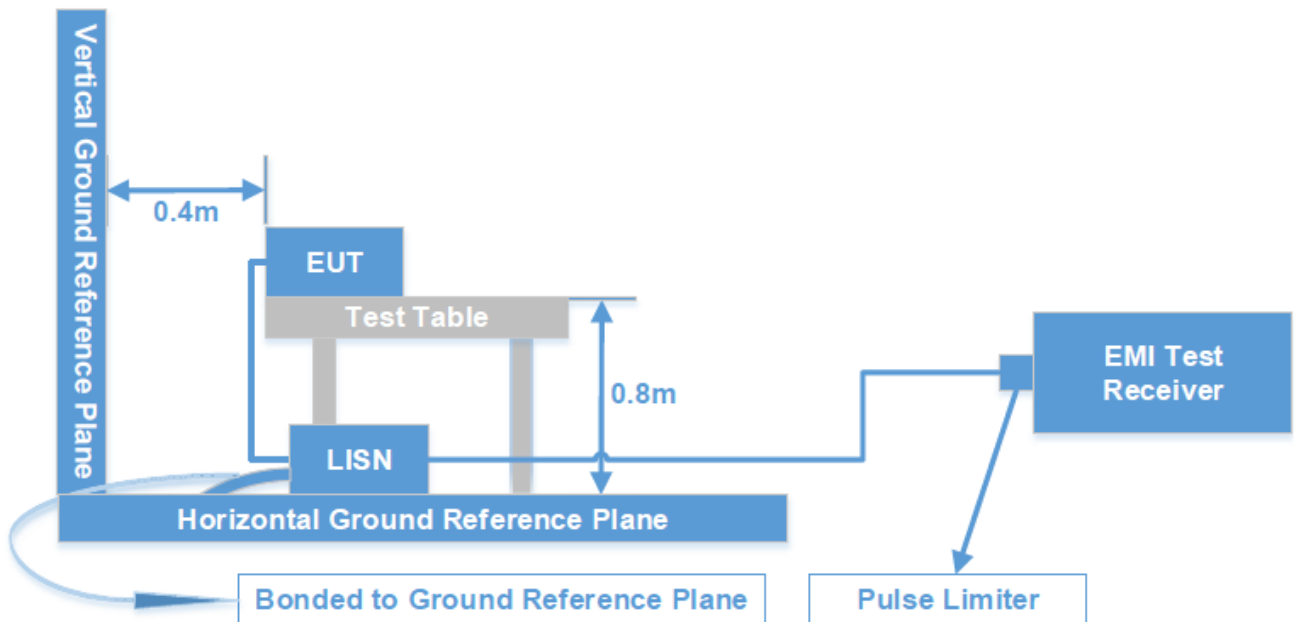
**Result:** Compliant.

## FCC §15.407 (b) (9) §15.207 (a) – AC POWER LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207(a), §15.407(b) (9)

### Test System Setup



The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | RBW   | VBW    |
|------------------|-------|--------|
| 150 kHz - 30 MHz | 9 kHz | 30 kHz |

## Test Procedure

During the conducted emission test, the EUT or adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

## Level & Over Limit Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\begin{aligned}\text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Level (dB}\mu\text{V)} &= \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)}\end{aligned}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

$$\text{Over Limit (dB)} = \text{Level (dB}\mu\text{V)} - \text{Limit (dB}\mu\text{V)}$$

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

**Test Data: See Appendix**

## §15.205 & §15.209 & §15.407(B) – UNDESIRABLE EMISSION & RESTRICTED BANDS

### Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

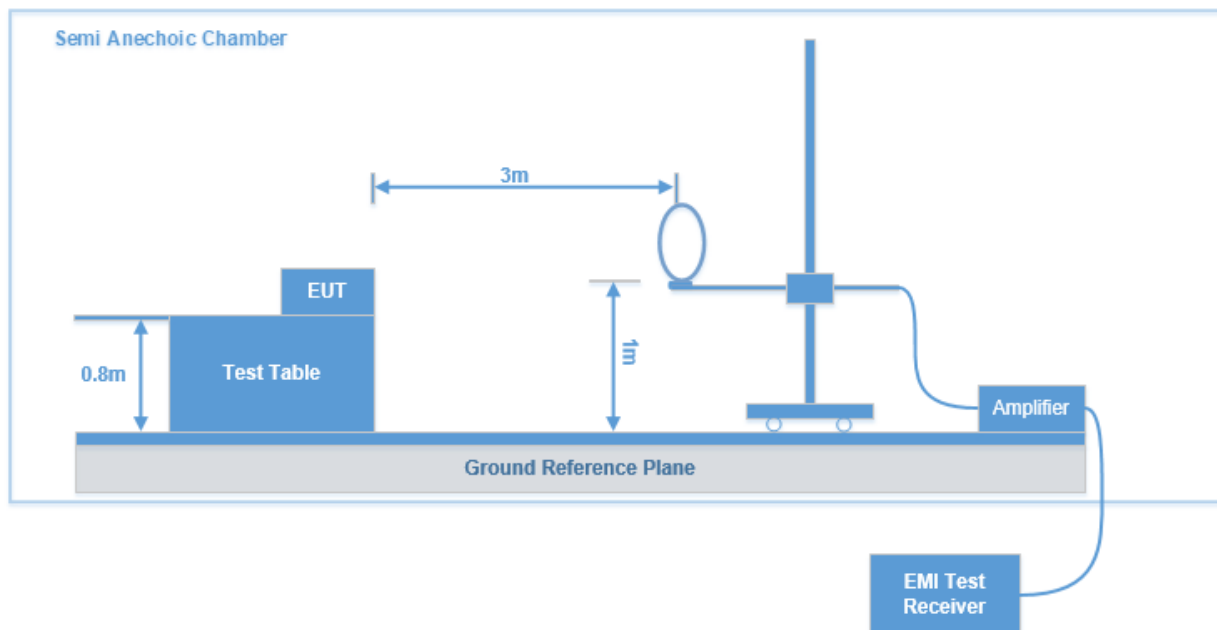
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000MHz shall be performed using a minimum resolution bandwidth of 1MHz.

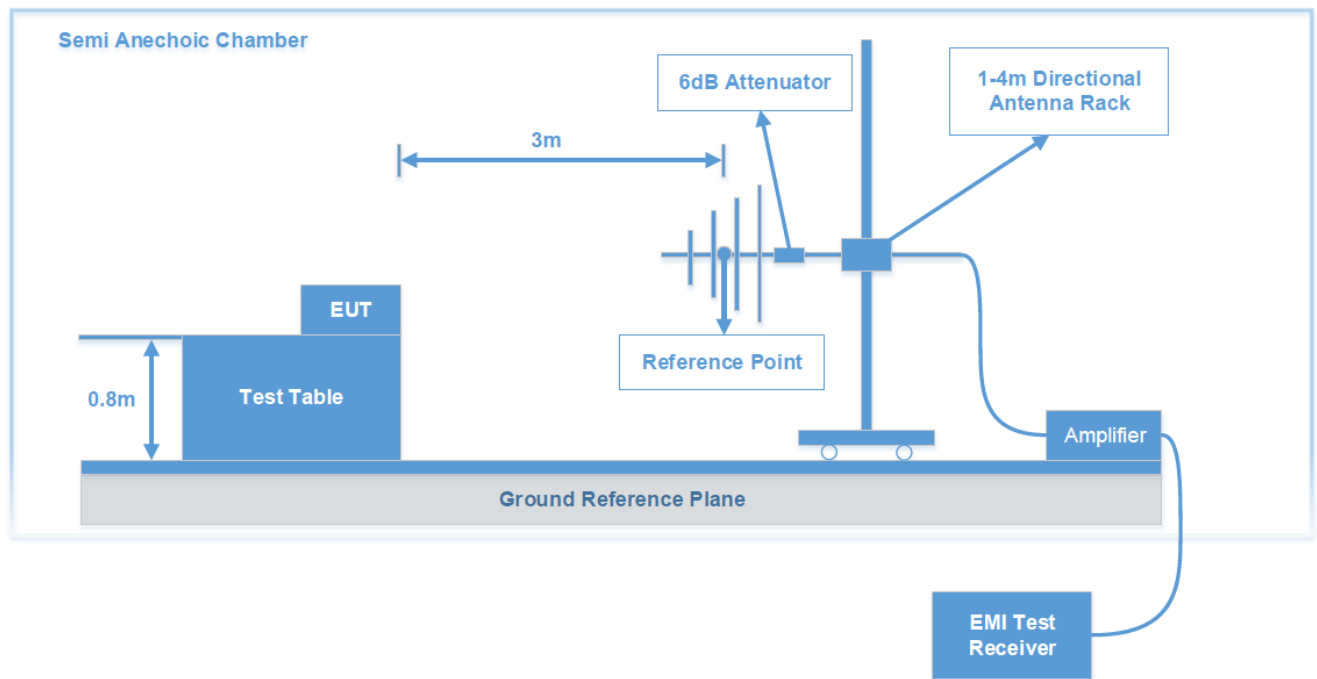
According to 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as:  $E \text{ [dB}\mu\text{V/m]} = \text{EIRP [dBm]} + 95.2$ , for  $d = 3$  meters.

### Test System Setup

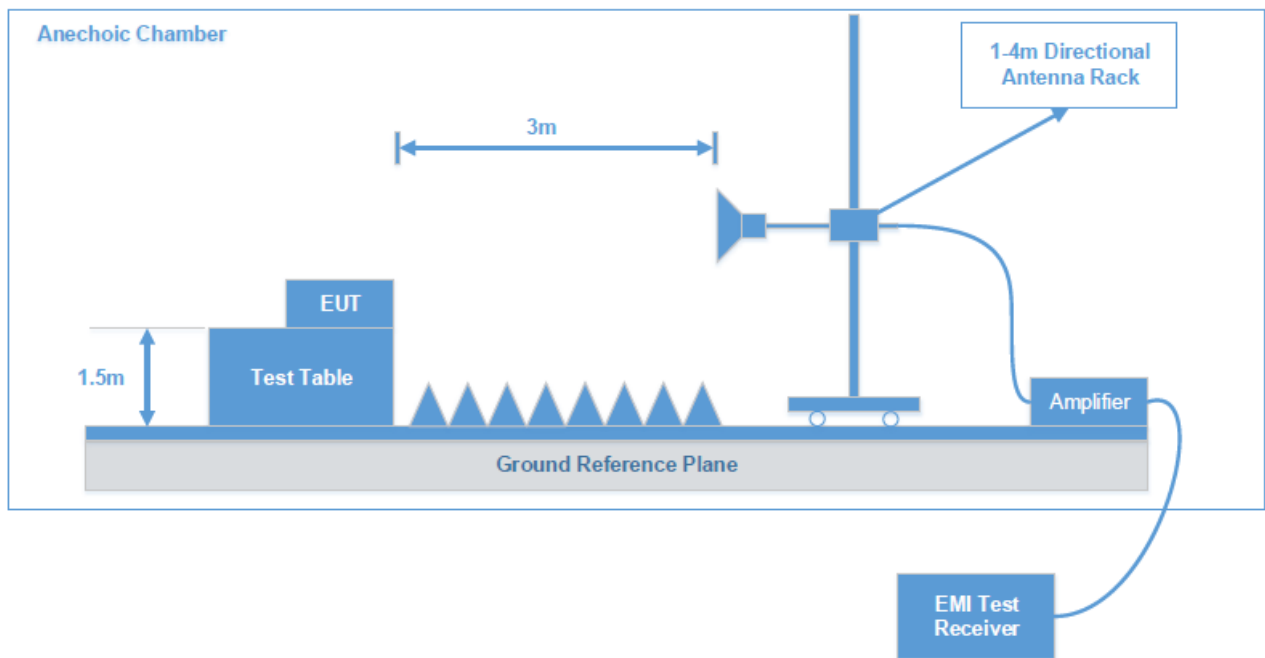
9kHz-30 MHz:



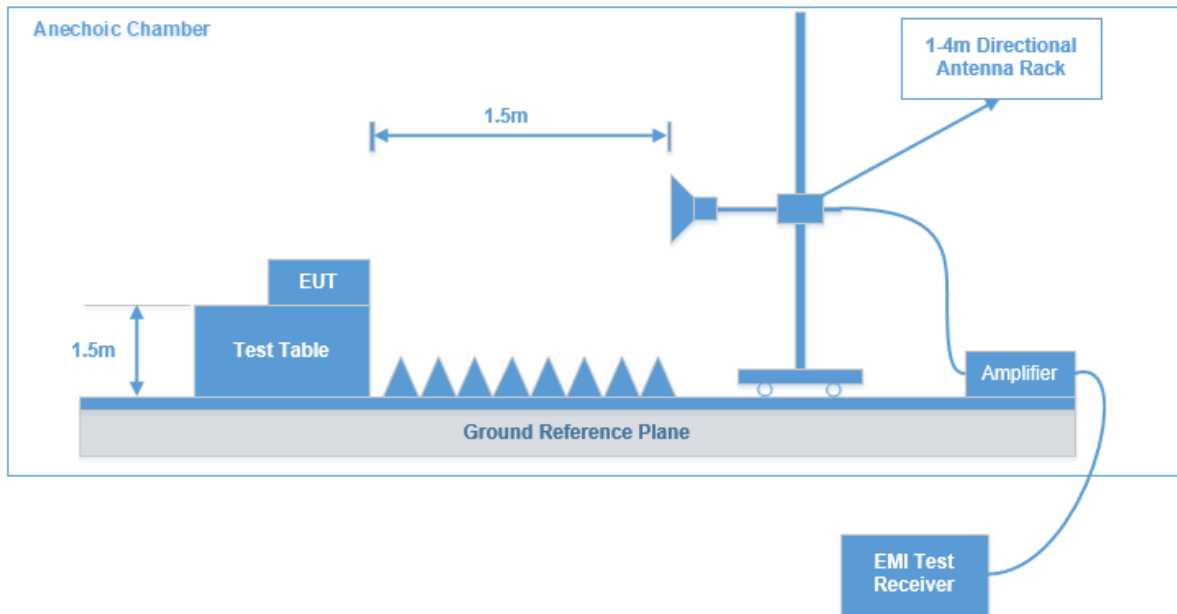
30MHz-1GHz:



1 GHz-18GHz:



18-40GHz:



The radiated emission tests were performed in the 3 meters test site for below 18GHz and 1.5m for 18-40 GHz, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209 and FCC 15.407 limits. The limit at 1.5m for 18-40 GHz is 80dB $\mu$ V/m (Peak) and 60dB $\mu$ V/m (Average).

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

## EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver Setup was set with the following configurations:

| Frequency Range   | RBW     | VBW     | IF B/W  | Measurement |
|-------------------|---------|---------|---------|-------------|
| 9 kHz - 150 kHz   | 200 Hz  | 1 kHz   | 200 Hz  | QP/Average  |
| 150 kHz - 30 MHz  | 9 kHz   | 30 kHz  | 9 kHz   | QP/ Average |
| 30 MHz - 1000 MHz | 100 kHz | 300 kHz | /       | Peak        |
|                   | /       | /       | 120 kHz | QP          |
| Above 1GHz        | 1MHz    | 3 MHz   | /       | Peak        |
|                   | 1MHz    | 3 MHz   | /       | Average     |

For 9 kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

### Test Procedure

During the radiated emission test, the adapter was connected to AC floor outlet. Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

### Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude (dB}\mu\text{V/m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Corrected factor (dB/m)}$$

$$\text{Corrected factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Corrected Amplitude (dB}\mu\text{V/m)}$$

Note: The QuasiPeak (dB $\mu$ V/m), MaxPeak (dB $\mu$ V/m), Average (dB $\mu$ V/m) which shown in the data table are all Corrected Amplitude.

**Test Data: See Appendix**



## FCC §15.407(a) & §15.407(e)–EMISSION BANDWIDTH

### Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### Test Procedure

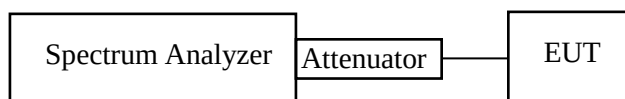
#### 1. Emission Bandwidth (EBW)

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### 2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

**Test Data: See Appendix**

## FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

### Applicable Standard

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

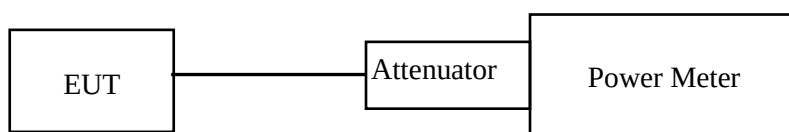
For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

### Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



**Test Data:** See Appendix

## FCC §15.407(a) - POWER SPECTRAL DENSITY

### Applicable Standard

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

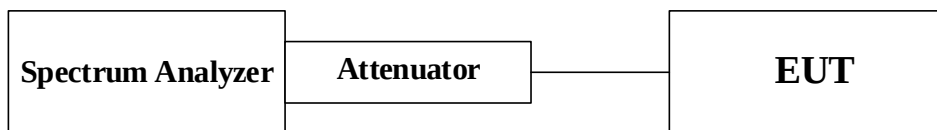
### Test Procedure

The measurements are base on C63.10:2020

Duty cycle  $\geq 98\%$  ,Method SA-1 should be applied.

Duty cycle  $< 98\%$ , duty cycle variations are less than  $\pm 2\%$ ,Method SA-2 should be applied.

Duty cycle  $< 98\%$ , duty cycle variations exceed  $\pm 2\%$ ,Method SA-3 should be applied.



Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

**Test Data: See Appendix**

## **EUT PHOTOGRAPHS**

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Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - INTERNAL PHOTOGRAPHS.

## **TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment EXHIBIT D - TEST SETUP PHOTOGRAPHS.

## APPENDIX - TEST DATA

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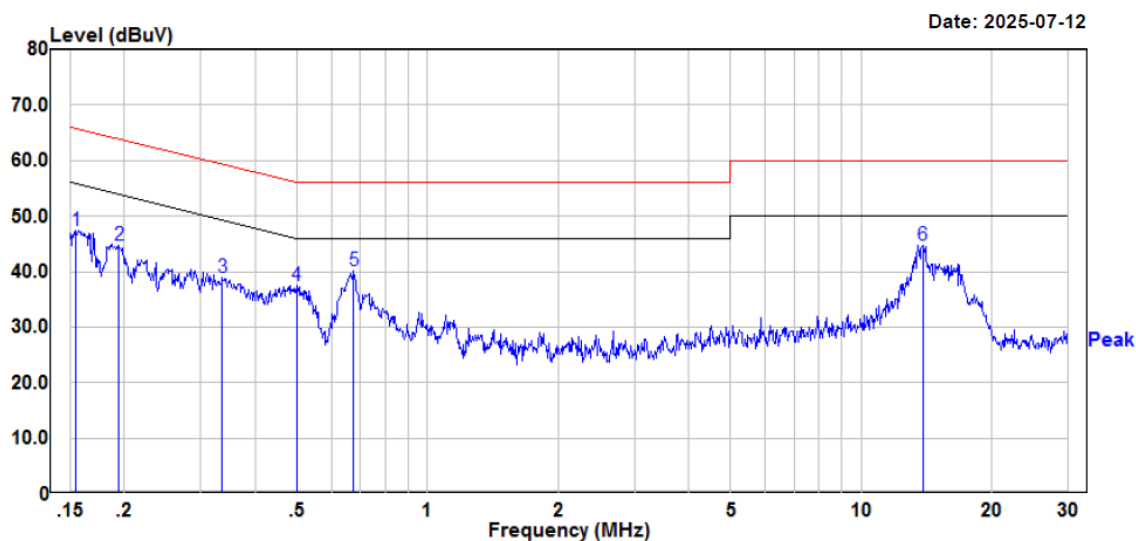
### CONDUCTED EMISSIONS

#### Environmental Conditions & Test Information

|                           |            |
|---------------------------|------------|
| <b>Test Date:</b>         | 2025-07-12 |
| <b>Temperature:</b>       | 27.1 °C    |
| <b>Relative Humidity:</b> | 65 %       |
| <b>ATM Pressure:</b>      | 100.8 kPa  |
| <b>Test Result:</b>       | Pass       |
| <b>Test Engineer:</b>     | Myles Miao |

EUT operation mode: Transmitting in 802.11a mode 5745MHz (maximum output power)

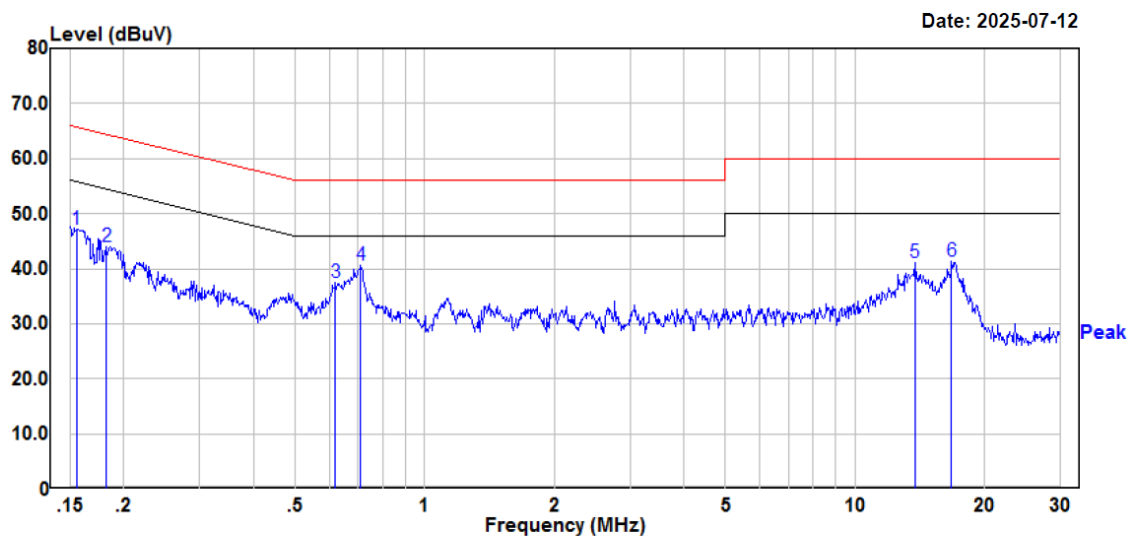
AC 120V/60 Hz, Line



Site : CE  
Condition : limit\FCC PART 15.207  
: DET:Peak  
Project No. : RKSA250707003  
Model : P053  
Phase : L  
Voltage : 120V/60Hz  
Mode : 5G WIFI  
Test Equipment : ENV216,ESR3  
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto  
Temperature : 27.1°C  
Humidity : 65%  
Atmospheric pressure: 100.8KPa  
Test Engineer : Myles Miao

|   | Freq   | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|---|--------|------------|--------|-------|------------|------------|--------|
|   | MHz    | dBuV       | dB     | dBuV  | dBuV       | dB         |        |
| 1 | 0.155  | 27.14      | 20.23  | 47.37 | 65.75      | -18.38     | Peak   |
| 2 | 0.194  | 24.63      | 20.21  | 44.84 | 63.85      | -19.01     | Peak   |
| 3 | 0.336  | 18.73      | 20.23  | 38.96 | 59.29      | -20.33     | Peak   |
| 4 | 0.499  | 17.25      | 20.17  | 37.42 | 56.02      | -18.60     | Peak   |
| 5 | 0.676  | 19.77      | 20.29  | 40.06 | 56.00      | -15.94     | Peak   |
| 6 | 13.855 | 24.30      | 20.44  | 44.74 | 60.00      | -15.26     | Peak   |

## AC 120V/60 Hz, Neutral



Site : CE  
Condition : limit\FCC PART 15.207  
: DET:Peak  
Project No. : RKSA250707003  
Model : P053  
Phase : N  
Voltage : 120V/60Hz  
Mode : 5G WIFI  
Test Equipment : ENV216, ESR3  
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto  
Temperature : 27.1°C  
Humidity : 65%  
Atmospheric pressure: 100.8KPa  
Test Engineer : Myles Miao

|   |        | Read  |        | Limit | Over  |              |
|---|--------|-------|--------|-------|-------|--------------|
|   | Freq   | Level | Factor | Level | Line  | Limit Remark |
|   | MHz    | dBuV  | dB     | dBuV  | dBuV  | dB           |
| 1 | 0.155  | 26.97 | 20.23  | 47.20 | 65.71 | -18.51 Peak  |
| 2 | 0.182  | 23.81 | 20.21  | 44.02 | 64.39 | -20.37 Peak  |
| 3 | 0.621  | 17.20 | 20.25  | 37.45 | 56.00 | -18.55 Peak  |
| 4 | 0.710  | 20.42 | 20.29  | 40.71 | 56.00 | -15.29 Peak  |
| 5 | 13.786 | 20.58 | 20.43  | 41.01 | 60.00 | -18.99 Peak  |
| 6 | 16.744 | 20.78 | 20.54  | 41.32 | 60.00 | -18.68 Peak  |



**TRANSMITTER UNWANTED EMISSIONS & RESTRICTED FREQUENCY BANDS****Environmental Conditions & Test Information**

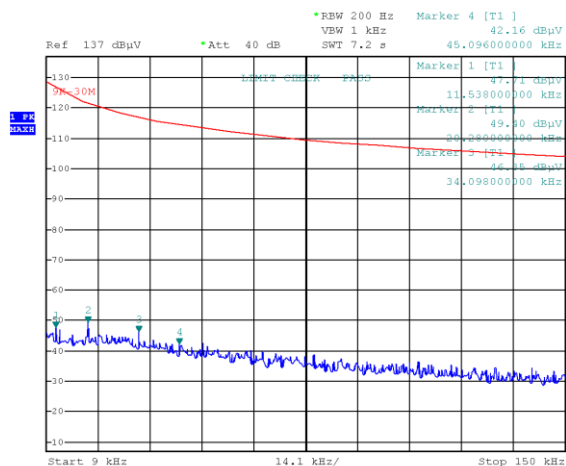
| Test Item:         | SPURIOUS EMISSIONS |                |                          |                 |
|--------------------|--------------------|----------------|--------------------------|-----------------|
|                    | 9 kHz-30MHz        | 30 MHz – 1 GHz | 1 GHz - 18 GHz           | 18 GHz - 40 GHz |
| Test Date:         | 2025-07-25         | 2025-07-14     | 2025-07-18 to 2025-07-21 | 2025-07-31      |
| Temperature:       | 25.1 °C            | 24.3 °C        | 26.9-27.4 °C             | 24.7 °C         |
| Relative Humidity: | 48%                | 46%            | 48-50 %                  | 50 %            |
| ATM Pressure:      | 101.2 kPa          | 100.4 kPa      | 100.7-101.1 kPa          | 101.3 kPa       |
| Test Result:       | Pass               | Pass           | Pass                     | Pass            |
| Test Engineer:     | Link Xia           | Link Xia       | Destine Hu               | Hugh Wu         |

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

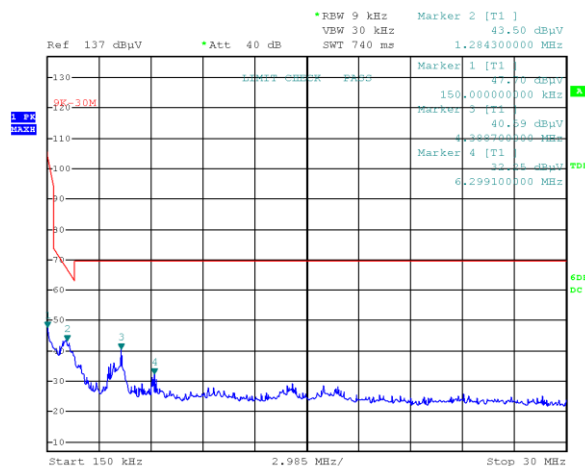
### 9 kHz-30 MHz: Transmitting in 802.11a mode 5745MHz (maximum output power)

#### Parallel(worst case)

##### 9kHz-150kHz



##### 150kHz-30MHz



Project No. RKSA250707003  
Date: 25.JUL.2025 11:31:27

Tester: Link Xia

Project No. RKSA250707003  
Date: 25.JUL.2025 11:33:50

Tester: Link Xia

#### 9kHz-150kHz

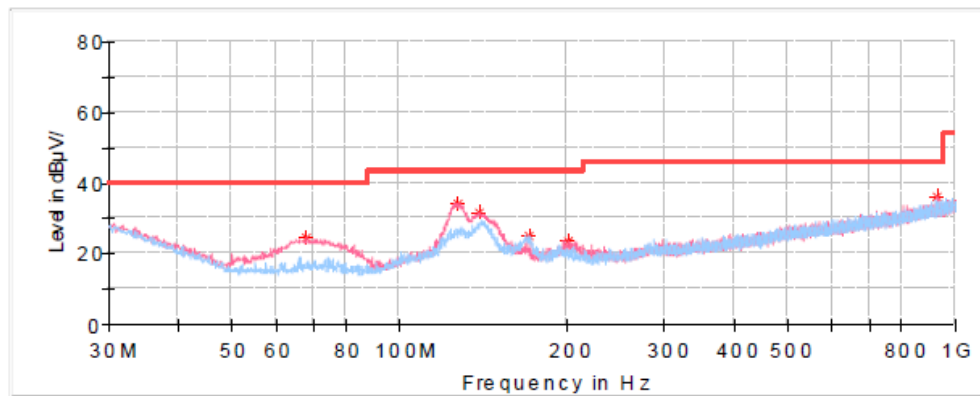
| Frequency (kHz) | Corrected Amplitude (dBμV/m) @3m | Detector PK/QP/Ave. | Corrected Factor (dB/m) | Limit (dBμV/m) @3m | Margin (dB) |
|-----------------|----------------------------------|---------------------|-------------------------|--------------------|-------------|
| 11.54           | 47.71                            | PK                  | -0.52                   | 126.36             | 78.65       |
| 20.28           | 49.40                            | PK                  | -0.56                   | 121.46             | 72.06       |
| 34.10           | 46.35                            | PK                  | -1.27                   | 116.95             | 70.60       |
| 45.10           | 42.16                            | PK                  | -3.03                   | 114.52             | 72.36       |

#### 150kHz-30MHz

| Frequency (MHz) | Corrected Amplitude (dBμV/m) @3m | Detector PK/QP/Ave. | Corrected Factor (dB/m) | Limit (dBμV/m) @3m | Margin (dB) |
|-----------------|----------------------------------|---------------------|-------------------------|--------------------|-------------|
| 0.15            | 47.70                            | PK                  | -11.34                  | 104.08             | 56.38       |
| 1.28            | 43.50                            | PK                  | -28.53                  | 65.46              | 21.96       |
| 4.39            | 40.59                            | PK                  | -31.97                  | 69.54              | 28.95       |
| 6.30            | 32.25                            | PK                  | -32.26                  | 69.54              | 37.29       |

**30MHz-1GHz: Transmitting in 802.11a mode 5745MHz (maximum output power)****Common Information**

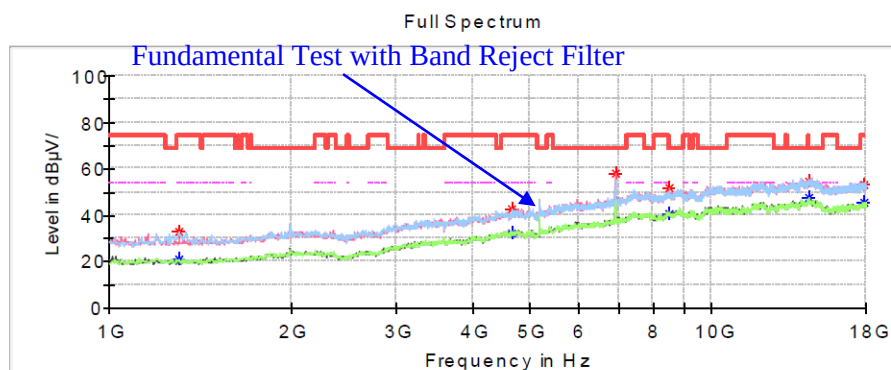
Project No: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11a mode low channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESCI, JB3, 310N  
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto  
Temperature: 24.3°C  
Humidity: 46%  
Barometric Pressure: 100.4kPa  
Test Engineer: Link Xia  
Test Date: 2025/7/14

**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|----------------------|-------------|-----|--------------|
| 68.072500       | 24.67                  | 40.00                | 15.33       | V   | -16.7        |
| 127.848750      | 34.25                  | 43.50                | 9.25        | V   | -11.0        |
| 139.610000      | 31.56                  | 43.50                | 11.94       | V   | -11.2        |
| 171.620000      | 25.06                  | 43.50                | 18.44       | H   | -12.6        |
| 201.083750      | 23.68                  | 43.50                | 19.82       | V   | -12.2        |
| 931.251250      | 36.07                  | 46.00                | 9.93        | V   | 1.5          |

**1GHz-18GHz (5150-5250MHz Band):****802.11a Mode:****Low Channel: 5180MHz****Common Information**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Project No.:          | RKSA250707003                                       |
| EUT Model:            | P053                                                |
| Test Mode:            | Transmitting in 802.11a mode low channel            |
| Standard:             | FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407 |
| Test Equipment:       | ESU40.3115, PAM-0118P                               |
| Receiver Setting:     | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto              |
| Temperature:          | 26.9°C                                              |
| Humidity:             | 48%                                                 |
| Atmospheric Pressure: | 100.7kPa                                            |
| Test Engineer:        | Destine Hu                                          |
| Test Date:            | 2025/7/18                                           |

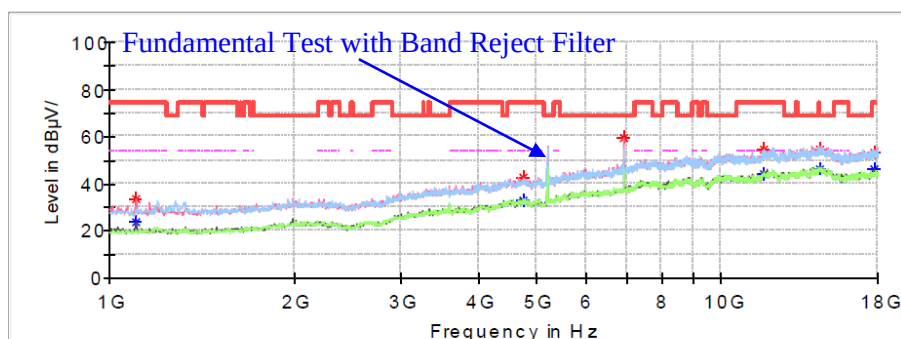
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μV/m) | Average (dB μV/m) | Limit (dB μV/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|-------------------|-------------------|-----------------|-------------|-----|------------|
| 1302.600000     | 33.10             | ---               | 74.00           | 40.90       | H   | -14.1      |
| 1302.600000     | ---               | 21.24             | 54.00           | 32.76       | H   | -14.1      |
| 4658.400000     | ---               | 32.44             | 54.00           | 21.56       | V   | -3.8       |
| 4658.400000     | 42.95             | ---               | 74.00           | 31.05       | V   | -3.8       |
| 6905.800000     | 57.80             | ---               | 68.20           | 10.40       | V   | 1.1        |
| 8497.000000     | ---               | 40.76             | 54.00           | 13.24       | V   | 4.7        |
| 8497.000000     | 51.51             | ---               | 74.00           | 22.49       | V   | 4.7        |
| 14494.600000    | 54.70             | ---               | 74.00           | 19.30       | H   | 12.0       |
| 14494.600000    | ---               | 47.59             | 54.00           | 6.41        | H   | 12.0       |
| 17870.800000    | 53.09             | ---               | 74.00           | 20.91       | H   | 11.4       |
| 17870.800000    | ---               | 45.33             | 54.00           | 8.67        | H   | 11.4       |

**Middle Channel: 5200MHz****Common Information**

Project No.: RKSA250707003  
 EUT Model: P053  
 Test Mode: Transmitting in 802.11a mode middle channel  
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
 Test Equipment: ESU40,3115,PAM-0118P  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Temperature: 26.9°C  
 Humidity: 48%  
 Atmospheric Pressure: 100.7kPa  
 Test Engineer: Destine Hu  
 Test Date: 2025/7/18

Full Spectrum

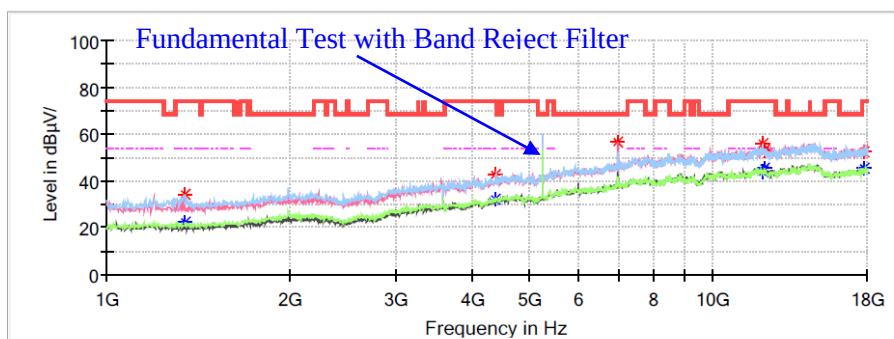
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|------------|
| 1105.400000     | 33.89                  | ---                    | 74.00                | 40.11       | V   | -14.8      |
| 1105.400000     | ---                    | 23.43                  | 54.00                | 30.57       | V   | -14.8      |
| 4743.400000     | ---                    | 32.73                  | 54.00                | 21.27       | H   | -3.6       |
| 4743.400000     | 42.56                  | ---                    | 74.00                | 31.44       | H   | -3.6       |
| 6933.000000     | 59.41                  | ---                    | 68.20                | 8.79        | V   | 1.2        |
| 11737.200000    | ---                    | 44.26                  | 54.00                | 9.74        | V   | 8.6        |
| 11737.200000    | 54.67                  | ---                    | 74.00                | 19.33       | V   | 8.6        |
| 14498.000000    | ---                    | 46.46                  | 54.00                | 7.54        | V   | 12.0       |
| 14498.000000    | 54.76                  | ---                    | 74.00                | 19.24       | V   | 12.0       |
| 17779.000000    | ---                    | 46.10                  | 54.00                | 7.90        | V   | 11.2       |
| 17779.000000    | 52.95                  | ---                    | 74.00                | 21.05       | V   | 11.2       |

**High Channel: 5240MHz****Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11a mode high channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 26.9°C  
Humidity: 48%  
Atmospheric Pressure: 100.7kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/18

Full Spectrum

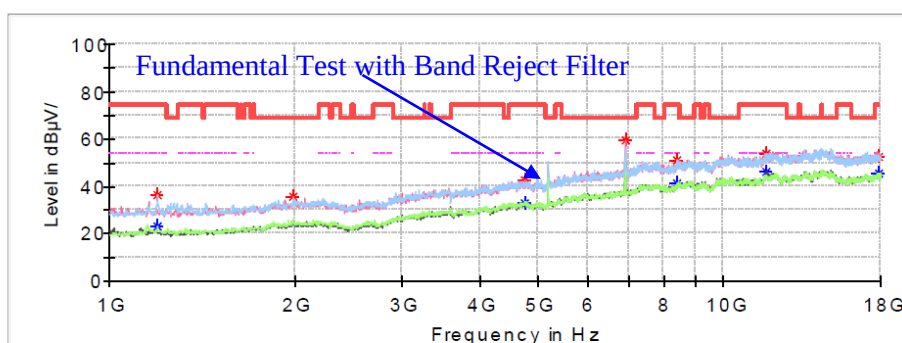
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB µ V/m) | Average (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 1346.800000     | ---                | 22.54              | 54.00            | 31.46       | H   | -14.0      |
| 1346.800000     | 34.57              | ---                | 74.00            | 39.43       | H   | -14.0      |
| 4372.800000     | ---                | 32.34              | 54.00            | 21.66       | H   | -4.4       |
| 4372.800000     | 42.97              | ---                | 74.00            | 31.03       | H   | -4.4       |
| 6987.400000     | 56.36              | ---                | 68.20            | 11.84       | V   | 1.4        |
| 12084.000000    | ---                | 44.34              | 54.00            | 9.66        | H   | 9.0        |
| 12084.000000    | 55.88              | ---                | 74.00            | 18.12       | H   | 9.0        |
| 12203.000000    | ---                | 45.52              | 54.00            | 8.48        | H   | 8.9        |
| 12203.000000    | 52.98              | ---                | 74.00            | 21.02       | H   | 8.9        |
| 17806.200000    | 52.67              | ---                | 74.00            | 21.33       | V   | 11.2       |
| 17806.200000    | ---                | 45.43              | 54.00            | 8.57        | V   | 11.2       |

**802.11ac20 Mode:****Low Channel: 5180MHz****Common Information**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Project No.:          | RKSA250707003                                       |
| EUT Model:            | P053                                                |
| Test Mode:            | Transmitting in 802.11ac20 mode low channel         |
| Standard:             | FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407 |
| Test Equipment:       | ESU40,3115,PAM-0118P                                |
| Receiver Setting:     | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto              |
| Temperature:          | 26.9°C                                              |
| Humidity:             | 48%                                                 |
| Atmospheric Pressure: | 100.7kPa                                            |
| Test Engineer:        | Destine Hu                                          |
| Test Date:            | 2025/7/18                                           |

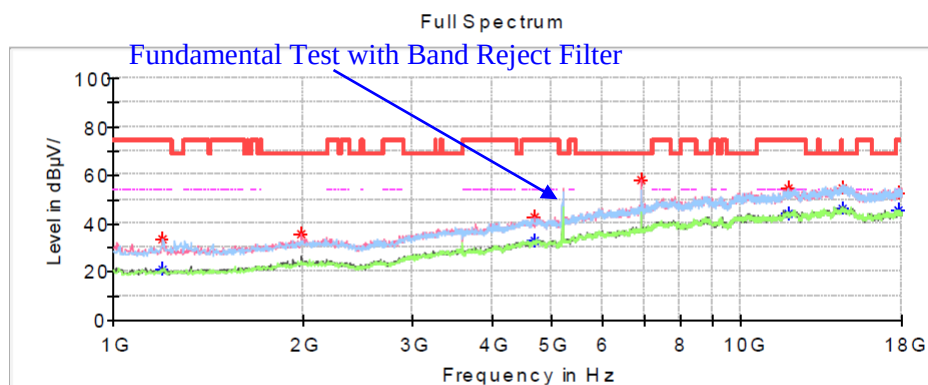
Full Spectrum

**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 1197.200000     | ---                | 23.10              | 54.00            | 30.90       | H   | -14.5      |
| 1197.200000     | 36.45              | ---                | 74.00            | 37.55       | H   | -14.5      |
| 1996.200000     | 35.71              | ---                | 68.20            | 32.49       | V   | -10.0      |
| 4733.200000     | ---                | 33.21              | 54.00            | 20.79       | H   | -3.6       |
| 4733.200000     | 42.41              | ---                | 74.00            | 31.59       | H   | -3.6       |
| 6905.800000     | 59.40              | ---                | 68.20            | 8.80        | V   | 1.1        |
| 8405.200000     | ---                | 41.21              | 54.00            | 12.79       | H   | 4.4        |
| 8405.200000     | 51.25              | ---                | 74.00            | 22.75       | H   | 4.4        |
| 11767.800000    | 53.76              | ---                | 74.00            | 20.24       | V   | 8.6        |
| 11767.800000    | ---                | 46.00              | 54.00            | 8.00        | V   | 8.6        |
| 17925.200000    | ---                | 45.71              | 54.00            | 8.29        | V   | 11.6       |
| 17925.200000    | 52.34              | ---                | 74.00            | 21.66       | V   | 11.6       |

**Middle Channel: 5200MHz****Common Information**

Project No.: RKSA250707003  
 EUT Model: P053  
 Test Mode: Transmitting in 802.11ac mode middle channel  
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
 Test Equipment: ESU40,3115,PAM-0118P  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Temperature: 26.9℃  
 Humidity: 48%  
 Atmospheric Pressure: 100.7kPa  
 Test Engineer: Destine Hu  
 Test Date: 2025/7/18

**Critical Freqs**

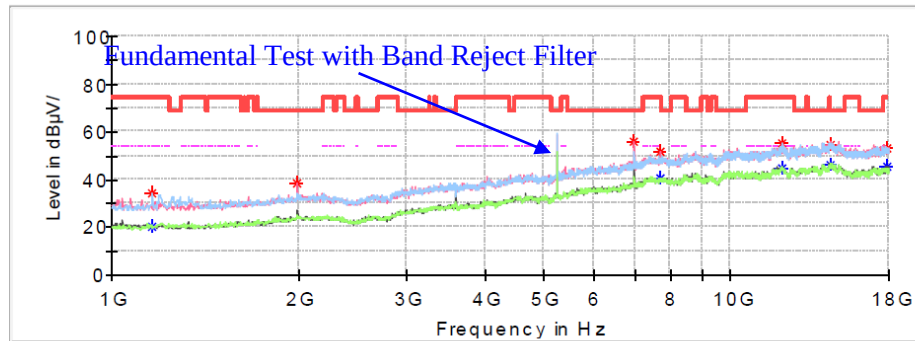
| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|------------|
| 1200.600000     | 33.66                  | ---                    | 74.00                | 40.34       | H   | -14.5      |
| 1200.600000     | ---                    | 20.98                  | 54.00                | 33.02       | H   | -14.5      |
| 1992.800000     | 35.75                  | ---                    | 68.20                | 32.45       | V   | -10.1      |
| 4678.800000     | ---                    | 32.65                  | 54.00                | 21.35       | V   | -3.7       |
| 4678.800000     | 42.47                  | ---                    | 74.00                | 31.53       | V   | -3.7       |
| 6933.000000     | 58.19                  | ---                    | 68.20                | 10.01       | V   | 1.2        |
| 11842.600000    | ---                    | 44.36                  | 54.00                | 9.64        | H   | 8.8        |
| 11842.600000    | 54.72                  | ---                    | 74.00                | 19.28       | H   | 8.8        |
| 14498.000000    | ---                    | 46.25                  | 54.00                | 7.75        | V   | 12.0       |
| 14498.000000    | 54.24                  | ---                    | 74.00                | 19.76       | V   | 12.0       |
| 17768.800000    | 52.48                  | ---                    | 74.00                | 21.52       | H   | 11.1       |
| 17768.800000    | ---                    | 45.73                  | 54.00                | 8.27        | H   | 11.1       |



**High Channel: 5240MHz****Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11ac20 mode high channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 26.9°C  
Humidity: 48%  
Atmospheric Pressure: 100.7kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/18

Full Spectrum

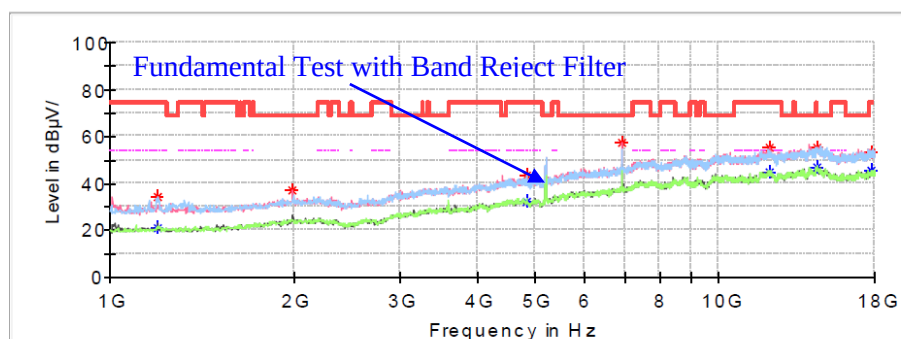
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|------------|
| 1163.200000     | ---                    | 20.40                  | 54.00                | 33.60       | V   | -14.6      |
| 1163.200000     | 34.13                  | ---                    | 74.00                | 39.87       | V   | -14.6      |
| 1989.400000     | 38.48                  | ---                    | 68.20                | 29.72       | V   | -10.1      |
| 6987.400000     | 56.18                  | ---                    | 68.20                | 12.02       | V   | 1.4        |
| 7715.000000     | 51.85                  | ---                    | 74.00                | 22.15       | V   | 3.1        |
| 7715.000000     | ---                    | 40.70                  | 54.00                | 13.30       | V   | 3.1        |
| 12121.400000    | ---                    | 45.00                  | 54.00                | 9.00        | H   | 9.0        |
| 12121.400000    | 55.01                  | ---                    | 74.00                | 18.99       | H   | 9.0        |
| 14498.000000    | 54.65                  | ---                    | 74.00                | 19.35       | V   | 12.0       |
| 14498.000000    | ---                    | 46.48                  | 54.00                | 7.52        | V   | 12.0       |
| 17850.400000    | ---                    | 45.51                  | 54.00                | 8.49        | V   | 11.4       |
| 17850.400000    | 53.26                  | ---                    | 74.00                | 20.74       | V   | 11.4       |

**802.11ac40 Mode:****Channel: 5190MHz****Common Information**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Project No.:          | RKSA250707003                                       |
| EUT Model:            | P053                                                |
| Test Mode:            | Transmitting in 802.11ac40 mode low channel         |
| Standard:             | FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407 |
| Test Equipment:       | ESU40,3115,PAM-0118P                                |
| Receiver Setting:     | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto              |
| Temperature:          | 26.9°C                                              |
| Humidity:             | 48%                                                 |
| Atmospheric Pressure: | 100.7kPa                                            |
| Test Engineer:        | Destine Hu                                          |
| Test Date:            | 2025/7/18                                           |

Full Spectrum

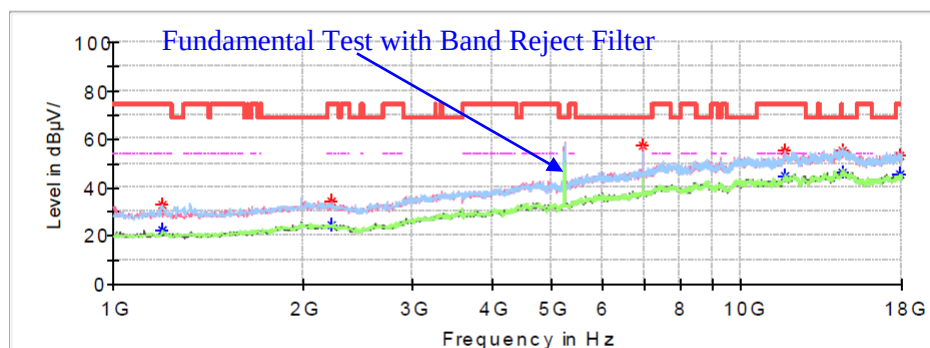
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB µ V/m) | Average (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 1200.600000     | ---                | 20.86              | 54.00            | 33.14       | H   | -14.5      |
| 1200.600000     | 34.49              | ---                | 74.00            | 39.51       | H   | -14.5      |
| 1992.800000     | 37.26              | ---                | 68.20            | 30.94       | V   | -10.1      |
| 4818.200000     | ---                | 31.97              | 54.00            | 22.03       | H   | -3.4       |
| 4818.200000     | 43.20              | ---                | 74.00            | 30.80       | H   | -3.4       |
| 6919.400000     | 57.56              | ---                | 68.20            | 10.64       | V   | 1.1        |
| 12114.600000    | 54.99              | ---                | 74.00            | 19.01       | V   | 9.0        |
| 12114.600000    | ---                | 44.58              | 54.00            | 9.42        | V   | 9.0        |
| 14494.600000    | 55.46              | ---                | 74.00            | 18.54       | V   | 12.0       |
| 14494.600000    | ---                | 47.13              | 54.00            | 6.87        | V   | 12.0       |
| 17772.200000    | 53.24              | ---                | 74.00            | 20.76       | V   | 11.2       |
| 17772.200000    | ---                | 45.14              | 54.00            | 8.86        | V   | 11.2       |

**Channel: 5230MHz****Common Information**

Project No.: RKSA250707003  
 EUT Model: P053  
 Test Mode: Transmitting in 802.11ac40 mode high channel  
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
 Test Equipment: ESU40,3115,PAM-0118P  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Temperature: 26.9°C  
 Humidity: 48%  
 Atmospheric Pressure: 100.7kPa  
 Test Engineer: Destine Hu  
 Test Date: 2025/7/18

Full Spectrum

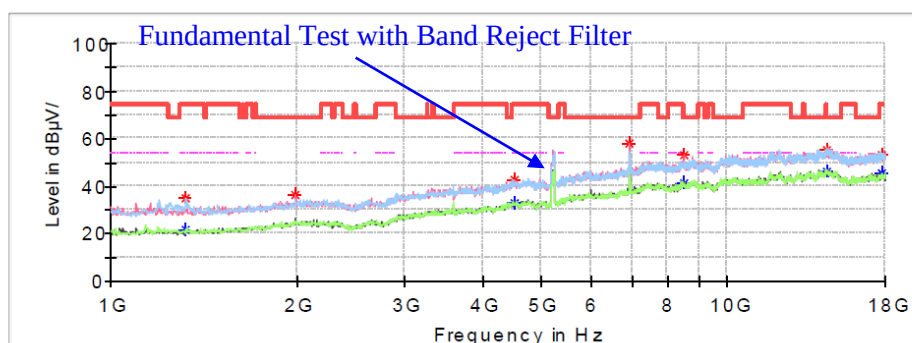
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 1193.800000     | ---                | 22.43              | 54.00            | 31.57       | H   | -14.5      |
| 1193.800000     | 33.07              | ---                | 74.00            | 40.93       | H   | -14.5      |
| 2230.800000     | ---                | 24.29              | 54.00            | 29.71       | V   | -9.8       |
| 2230.800000     | 34.49              | ---                | 74.00            | 39.51       | V   | -9.8       |
| 6973.800000     | 57.02              | ---                | 68.20            | 11.18       | V   | 1.4        |
| 11740.600000    | ---                | 44.58              | 54.00            | 9.42        | H   | 8.6        |
| 11740.600000    | 55.05              | ---                | 74.00            | 18.95       | H   | 8.6        |
| 14491.200000    | ---                | 46.47              | 54.00            | 7.53        | H   | 12.0       |
| 14491.200000    | 55.07              | ---                | 74.00            | 18.93       | H   | 12.0       |
| 17928.600000    | 53.13              | ---                | 74.00            | 20.87       | H   | 11.6       |
| 17928.600000    | ---                | 45.40              | 54.00            | 8.60        | H   | 11.6       |

**802.11ac80 Mode:****Channel: 5210MHz****Common Information**

Project No.: RKSA250707003  
 EUT Model: P053  
 Test Mode: Transmitting in 802.11ac80 mode middle channel  
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
 Test Equipment: ESU40,3115,PAM-0118P  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Temperature: 26.9℃  
 Humidity: 48%  
 Atmospheric Pressure: 100.7kPa  
 Test Engineer: Destine Hu  
 Test Date: 2025/7/18

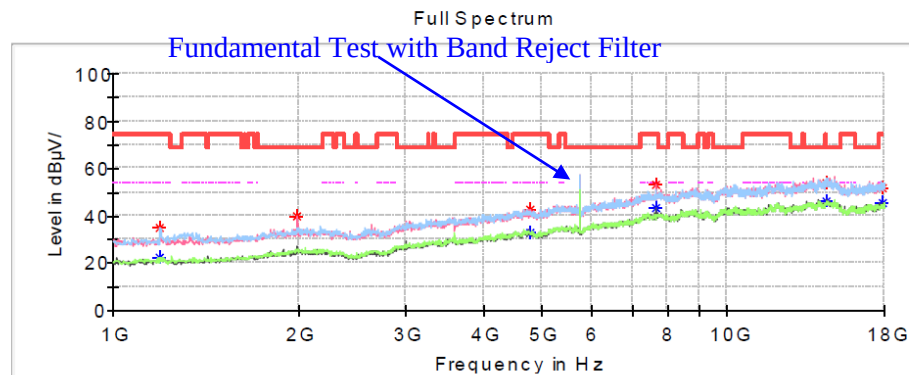
Full Spectrum

**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 1323.000000     | 34.76              | ---                | 74.00            | 39.24       | H   | -14.1      |
| 1323.000000     | ---                | 21.33              | 54.00            | 32.67       | H   | -14.1      |
| 1989.400000     | 36.37              | ---                | 68.20            | 31.83       | V   | -10.1      |
| 4502.000000     | ---                | 33.03              | 54.00            | 20.97       | V   | -4.2       |
| 4502.000000     | 42.61              | ---                | 74.00            | 31.39       | V   | -4.2       |
| 6946.600000     | 57.93              | ---                | 68.20            | 10.27       | V   | 1.3        |
| 8483.400000     | 53.06              | ---                | 74.00            | 20.94       | H   | 4.6        |
| 8483.400000     | ---                | 41.01              | 54.00            | 12.99       | H   | 4.6        |
| 14491.200000    | ---                | 46.49              | 54.00            | 7.51        | H   | 12.0       |
| 14491.200000    | 55.37              | ---                | 74.00            | 18.63       | H   | 12.0       |
| 17728.000000    | ---                | 45.31              | 54.00            | 8.69        | V   | 11.0       |
| 17728.000000    | 53.05              | ---                | 74.00            | 20.95       | V   | 11.0       |

**1GHz-18GHz(5725-5850MHz Band):****802.11a Mode:****Low Channel: 5745MHz****Common Information**

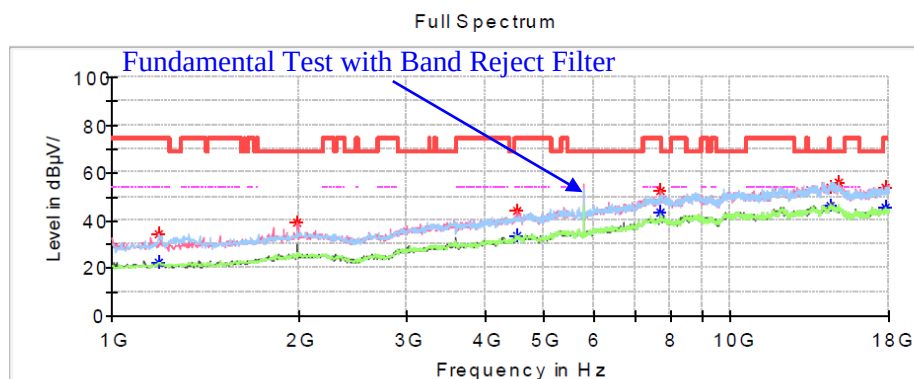
|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Project No.:          | RKSA250707003                                       |
| EUT Model:            | P053                                                |
| Test Mode:            | Transmitting in 802.11a mode low channel            |
| Standard:             | FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407 |
| Test Equipment:       | ESU40,3115,PAM-0118P                                |
| Receiver Setting:     | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto              |
| Temperature:          | 27.4°C                                              |
| Humidity:             | 50%                                                 |
| Atmospheric Pressure: | 101.1kPa                                            |
| Test Engineer:        | Destine Hu                                          |
| Test Date:            | 2025/7/21                                           |

**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|------------|
| 1190.400000     | 34.67                  | ---                    | 74.00                | 39.33       | H   | -14.5      |
| 1190.400000     | ---                    | 22.29                  | 54.00                | 31.71       | H   | -14.5      |
| 1996.200000     | 40.11                  | ---                    | 68.20                | 28.09       | V   | -10.0      |
| 4763.800000     | ---                    | 33.20                  | 54.00                | 20.80       | V   | -3.5       |
| 4763.800000     | 42.60                  | ---                    | 74.00                | 31.40       | V   | -3.5       |
| 7660.600000     | ---                    | 43.46                  | 54.00                | 10.54       | V   | 3.1        |
| 7660.600000     | 52.98                  | ---                    | 74.00                | 21.02       | V   | 3.1        |
| 14498.000000    | ---                    | 46.10                  | 54.00                | 7.90        | H   | 12.0       |
| 14498.000000    | 53.87                  | ---                    | 74.00                | 20.13       | H   | 12.0       |
| 17853.800000    | 52.09                  | ---                    | 74.00                | 21.91       | V   | 11.4       |
| 17853.800000    | ---                    | 45.25                  | 54.00                | 8.75        | V   | 11.4       |

**Middle Channel: 5785MHz****Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11a mode middle channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 27.4°C  
Humidity: 50%  
Atmospheric Pressure: 101.1kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/21

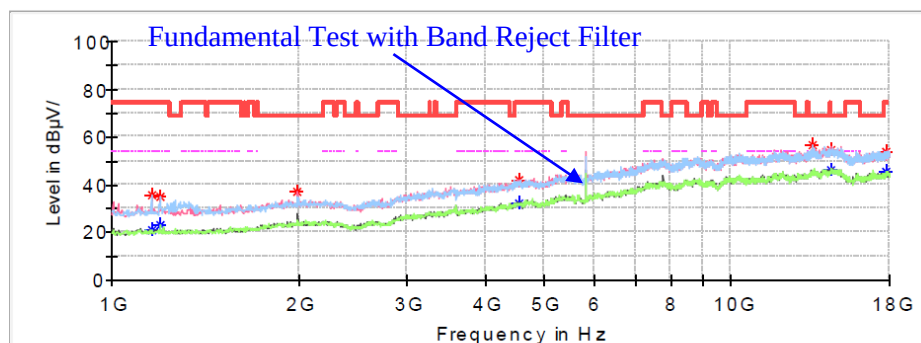
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 1190.400000     | 34.59              | ---                | 74.00            | 39.41       | H   | -14.5      |
| 1190.400000     | ---                | 22.58              | 54.00            | 31.42       | H   | -14.5      |
| 1989.400000     | 39.38              | ---                | 68.20            | 28.82       | V   | -10.1      |
| 4515.600000     | 43.84              | ---                | 74.00            | 30.16       | V   | -4.2       |
| 4515.600000     | ---                | 33.66              | 54.00            | 20.34       | V   | -4.2       |
| 7711.600000     | ---                | 43.49              | 54.00            | 10.51       | V   | 3.1        |
| 7711.600000     | 52.15              | ---                | 74.00            | 21.85       | V   | 3.1        |
| 14491.200000    | 54.08              | ---                | 74.00            | 19.92       | H   | 12.0       |
| 14491.200000    | ---                | 46.11              | 54.00            | 7.89        | H   | 12.0       |
| 14916.200000    | 56.06              | ---                | 68.20            | 12.14       | H   | 10.6       |
| 17789.200000    | 53.75              | ---                | 74.00            | 20.25       | V   | 11.2       |
| 17789.200000    | ---                | 45.46              | 54.00            | 8.54        | V   | 11.2       |

**High Channel: 5825MHz****Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11a mode high channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 27.4°C  
Humidity: 50%  
Atmospheric Pressure: 101.1kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/21

Full Spectrum

**Critical\_Freqs**

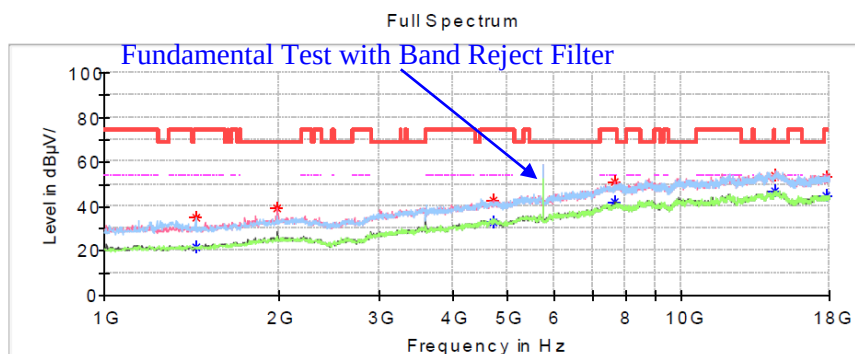
| Frequency (MHz) | MaxPeak (dB µ V/m) | Average (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 1159.800000     | 35.49              | ---                | 74.00            | 38.51       | H   | -14.6      |
| 1159.800000     | ---                | 21.31              | 54.00            | 32.69       | H   | -14.6      |
| 1197.200000     | ---                | 23.00              | 54.00            | 31.00       | H   | -14.5      |
| 1197.200000     | 35.04              | ---                | 74.00            | 38.96       | H   | -14.5      |
| 1989.400000     | 37.24              | ---                | 68.20            | 30.96       | V   | -10.1      |
| 4536.000000     | ---                | 31.84              | 54.00            | 22.16       | H   | -4.1       |
| 4536.000000     | 42.24              | ---                | 74.00            | 31.76       | H   | -4.1       |
| 13539.200000    | 56.65              | ---                | 68.20            | 11.55       | H   | 10.1       |
| 14494.600000    | 54.68              | ---                | 74.00            | 19.32       | H   | 12.0       |
| 14494.600000    | ---                | 46.02              | 54.00            | 7.98        | H   | 12.0       |
| 17806.200000    | ---                | 45.31              | 54.00            | 8.69        | V   | 11.2       |
| 17806.200000    | 53.77              | ---                | 74.00            | 20.23       | V   | 11.2       |

**802.11ac20 Mode:****Low Channel: 5745MHz**

## Test Report

**Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11ac20 mode low channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 27.4°C  
Humidity: 50%  
Atmospheric Pressure: 101.1kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/21

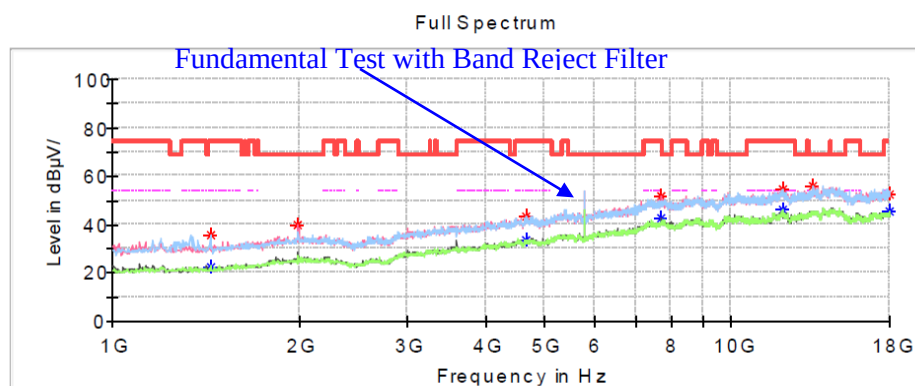
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB µ V/m) | Average (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 1438.600000     | 34.87              | ---                | 74.00            | 39.13       | H   | -13.6      |
| 1438.600000     | ---                | 21.90              | 54.00            | 32.10       | H   | -13.6      |
| 1992.800000     | 39.26              | ---                | 68.20            | 28.94       | V   | -10.1      |
| 4726.400000     | ---                | 32.88              | 54.00            | 21.12       | V   | -3.6       |
| 4726.400000     | 42.80              | ---                | 74.00            | 31.20       | V   | -3.6       |
| 7660.600000     | 51.30              | ---                | 74.00            | 22.70       | V   | 3.1        |
| 7660.600000     | ---                | 42.08              | 54.00            | 11.92       | V   | 3.1        |
| 14498.000000    | ---                | 47.10              | 54.00            | 6.90        | V   | 12.0       |
| 14498.000000    | 53.56              | ---                | 74.00            | 20.44       | V   | 12.0       |
| 17785.800000    | 53.19              | ---                | 74.00            | 20.81       | V   | 11.2       |
| 17785.800000    | ---                | 44.87              | 54.00            | 9.13        | V   | 11.2       |



**Middle Channel: 5785MHz****Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11ac20 mode middle channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 27.4°C  
Humidity: 50%  
Atmospheric Pressure: 101.1kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/21

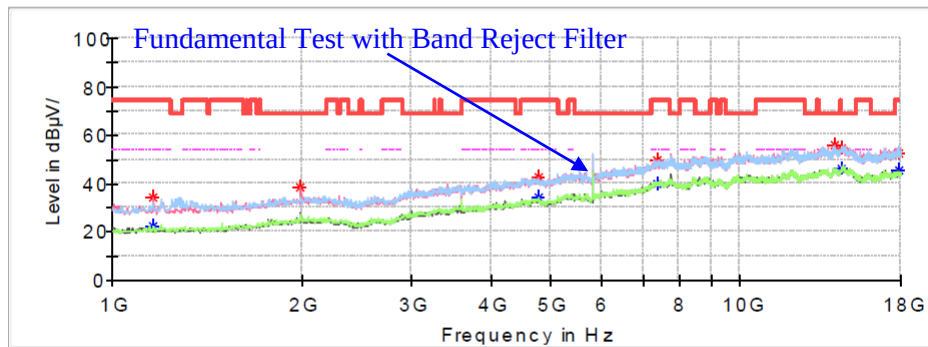
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB µV/m) | Average (dB µV/m) | Limit (dB µV/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|-------------------|-------------------|-----------------|-------------|-----|------------|
| 1438.600000     | ---               | 22.16             | 54.00           | 31.84       | H   | -13.6      |
| 1438.600000     | 35.41             | ---               | 74.00           | 38.59       | H   | -13.6      |
| 1992.800000     | 39.86             | ---               | 68.20           | 28.34       | V   | -10.1      |
| 4658.400000     | ---               | 33.47             | 54.00           | 20.53       | V   | -3.8       |
| 4658.400000     | 43.61             | ---               | 74.00           | 30.39       | V   | -3.8       |
| 7711.600000     | ---               | 42.68             | 54.00           | 11.32       | V   | 3.1        |
| 7711.600000     | 51.49             | ---               | 74.00           | 22.51       | V   | 3.1        |
| 12067.000000    | 54.28             | ---               | 74.00           | 19.72       | H   | 9.0        |
| 12067.000000    | ---               | 46.19             | 54.00           | 7.81        | H   | 9.0        |
| 13573.200000    | 56.05             | ---               | 68.20           | 12.15       | H   | 10.1       |
| 17966.000000    | ---               | 45.44             | 54.00           | 8.56        | H   | 11.7       |
| 17966.000000    | 52.19             | ---               | 74.00           | 21.81       | H   | 11.7       |

**High Channel: 5825MHz****Common Information**

Project No.: RKSA250707003  
 EUT Model: P053  
 Test Mode: Transmitting in 802.11ac20 mode high channel  
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
 Test Equipment: ESU40,3115,PAM-0118P  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Temperature: 27.4°C  
 Humidity: 50%  
 Atmospheric Pressure: 101.1kPa  
 Test Engineer: Destine Hu  
 Test Date: 2025/7/21

Full Spectrum

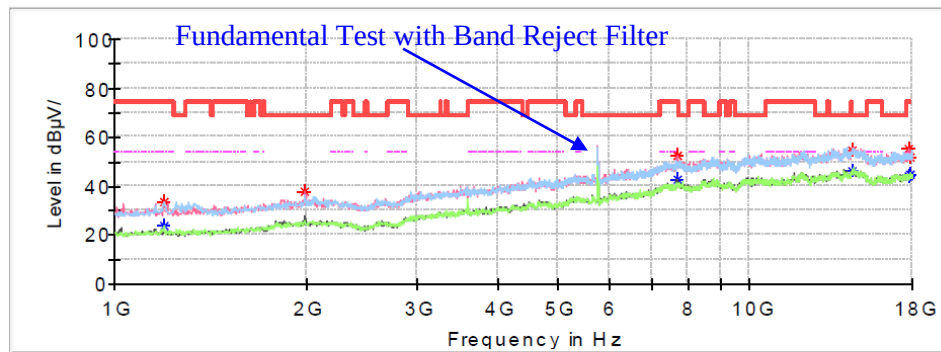
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|------------|
| 1163.200000     | 34.42                  | ---                    | 74.00                | 39.58       | V   | -14.6      |
| 1163.200000     | ---                    | 22.32                  | 54.00                | 31.68       | V   | -14.6      |
| 1989.400000     | 38.17                  | ---                    | 68.20                | 30.03       | V   | -10.1      |
| 4763.800000     | 42.83                  | ---                    | 74.00                | 31.17       | H   | -3.5       |
| 4763.800000     | ---                    | 34.36                  | 54.00                | 19.64       | H   | -3.5       |
| 7385.200000     | ---                    | 40.00                  | 54.00                | 14.00       | V   | 2.6        |
| 7385.200000     | 49.73                  | ---                    | 74.00                | 24.27       | V   | 2.6        |
| 14113.800000    | 55.94                  | ---                    | 68.20                | 12.26       | V   | 11.3       |
| 14491.200000    | 54.25                  | ---                    | 74.00                | 19.75       | V   | 12.0       |
| 14491.200000    | ---                    | 46.47                  | 54.00                | 7.53        | V   | 12.0       |
| 17870.800000    | ---                    | 45.14                  | 54.00                | 8.86        | V   | 11.4       |
| 17870.800000    | 52.66                  | ---                    | 74.00                | 21.34       | V   | 11.4       |

**802.11ac40 Mode:****Channel: 5755MHz****Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11ac40 mode low channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 27.4°C  
Humidity: 50%  
Atmospheric Pressure: 101.1kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/21

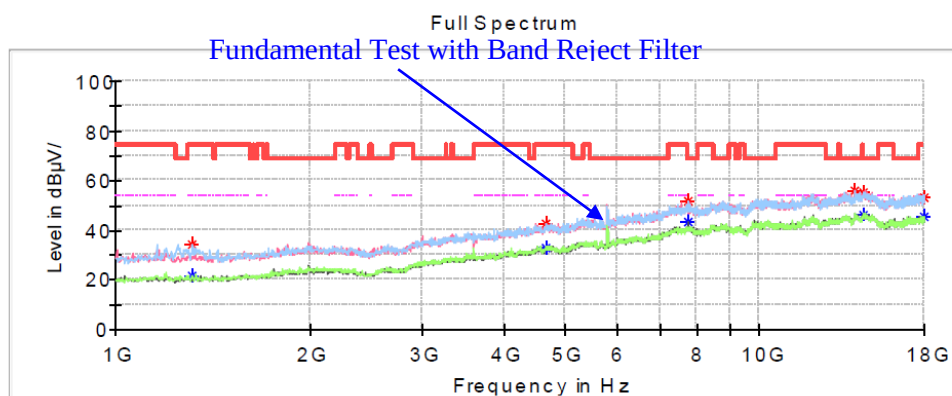
Full Spectrum

**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 1193.800000     | ---                | 23.55              | 54.00            | 30.45       | H   | -14.5      |
| 1193.800000     | 33.90              | ---                | 74.00            | 40.10       | H   | -14.5      |
| 1992.800000     | 38.10              | ---                | 68.20            | 30.10       | V   | -10.1      |
| 7674.200000     | ---                | 42.32              | 54.00            | 11.68       | V   | 3.1        |
| 7674.200000     | 52.19              | ---                | 74.00            | 21.81       | V   | 3.1        |
| 14481.000000    | ---                | 46.43              | 54.00            | 7.57        | V   | 11.9       |
| 14481.000000    | 54.67              | ---                | 74.00            | 19.33       | V   | 11.9       |
| 17819.800000    | 55.04              | ---                | 74.00            | 18.96       | V   | 11.3       |
| 17819.800000    | ---                | 44.36              | 54.00            | 9.64        | V   | 11.3       |
| 17918.400000    | 51.87              | ---                | 74.00            | 22.13       | H   | 11.5       |
| 17918.400000    | ---                | 44.97              | 54.00            | 9.03        | H   | 11.5       |

**Channel: 5795MHz****Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11ac40 mode high channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 27.4℃  
Humidity: 50%  
Atmospheric Pressure: 101.1kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/21

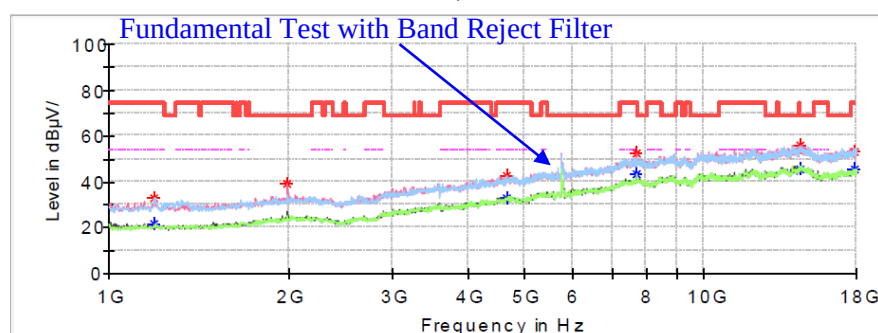
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB µ V/m) | Average (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 1316.200000     | 34.28              | ---                | 74.00            | 39.72       | H   | -14.1      |
| 1316.200000     | ---                | 21.68              | 54.00            | 32.32       | H   | -14.1      |
| 4648.200000     | ---                | 32.95              | 54.00            | 21.05       | H   | -3.8       |
| 4648.200000     | 42.99              | ---                | 74.00            | 31.01       | H   | -3.8       |
| 7725.200000     | 52.09              | ---                | 74.00            | 21.91       | V   | 3.1        |
| 7725.200000     | ---                | 43.21              | 54.00            | 10.79       | V   | 3.1        |
| 14073.000000    | 56.04              | ---                | 68.20            | 12.16       | V   | 11.2       |
| 14498.000000    | ---                | 46.14              | 54.00            | 7.86        | V   | 12.0       |
| 14498.000000    | 55.05              | ---                | 74.00            | 18.95       | V   | 12.0       |
| 17993.200000    | 53.08              | ---                | 74.00            | 20.92       | V   | 11.8       |
| 17993.200000    | ---                | 45.60              | 54.00            | 8.40        | V   | 11.8       |

**802.11ac80 Mode:****Channel: 5775MHz****Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11ac80 mode middle channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 27.4°C  
Humidity: 50%  
Atmospheric Pressure: 101.1kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/21

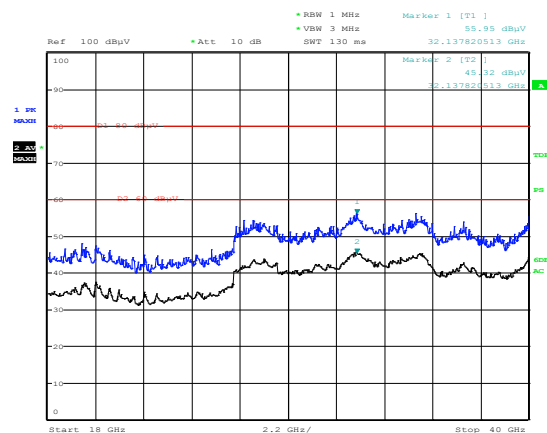
Full Spectrum

**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 1190.400000     | ---                | 21.78              | 54.00            | 32.22       | V   | -14.5      |
| 1190.400000     | 33.19              | ---                | 74.00            | 40.81       | V   | -14.5      |
| 1992.800000     | 39.01              | ---                | 68.20            | 29.19       | V   | -10.1      |
| 4651.600000     | ---                | 32.90              | 54.00            | 21.10       | V   | -3.8       |
| 4651.600000     | 42.90              | ---                | 74.00            | 31.10       | V   | -3.8       |
| 7698.000000     | ---                | 43.26              | 54.00            | 10.74       | V   | 3.1        |
| 7698.000000     | 52.80              | ---                | 74.00            | 21.20       | V   | 3.1        |
| 14450.400000    | 56.16              | ---                | 68.20            | 12.04       | V   | 11.9       |
| 14494.600000    | 54.62              | ---                | 74.00            | 19.38       | H   | 12.0       |
| 14494.600000    | ---                | 45.78              | 54.00            | 8.22        | H   | 12.0       |
| 17928.600000    | ---                | 45.43              | 54.00            | 8.57        | V   | 11.6       |
| 17928.600000    | 52.98              | ---                | 74.00            | 21.02       | V   | 11.6       |

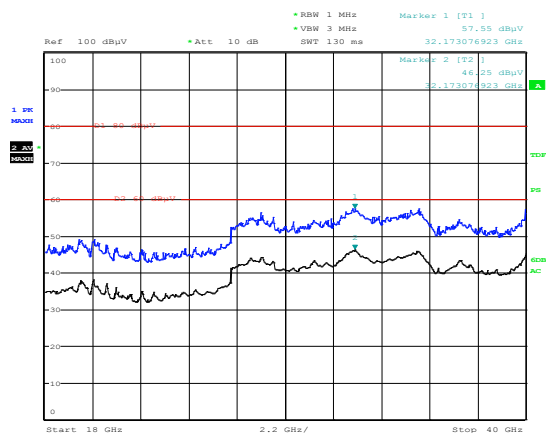
**18GHz-40GHz:**

Pre-scan with 802.11a, 802.11ac20, 802.11ac40, 802.11ac80 modes of operation in the X,Y and Z axes of orientation, the worst case **802.11a mode (5745MHz)** was recorded

**Horizontal**

Project No :RKSA250707003  
Date: 31.JUL.2025 22:16:53

Tester :Hugh Wu

**Vertical**

Project No :RKSA250707003  
Date: 31.JUL.2025 23:17:30

Tester :Hugh Wu

Note: The test distance is 1.5m. The limit is 80dBμV/m(Peak) and 60dBμV/m(Average).

| Frequency (GHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----|--------------|
| 32.14           | ---              | 45.32            | 60             | 14.68       | H   | 23.28        |
| 32.14           | 55.95            | ---              | 80             | 24.05       | H   | 23.28        |
| 32.17           | ---              | 46.25            | 60             | 13.75       | V   | 23.31        |
| 32.17           | 57.55            | ---              | 80             | 22.45       | V   | 23.31        |

**Restricted Bands Emissions Test (5150-5250MHz Band):**

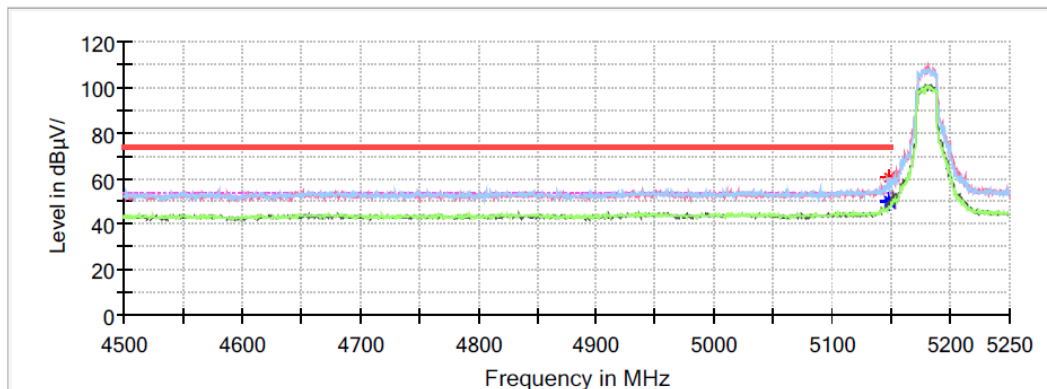
Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

**802.11a Mode:****Common Information**

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| Project No.:          | RKSA250707003                                     |
| EUT Model:            | P053                                              |
| Test Mode:            | 5G WIFI 802.11a mode Low Channel                  |
| Standard:             | FCC Part 15.407& FCC Part 15.205& FCC Part 15.209 |
| Test Equipment:       | ESU40,3115,PAM-0118P                              |
| Receiver Setting:     | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto            |
| Temperature:          | 26.9℃                                             |
| Humidity:             | 48%                                               |
| Atmospheric Pressure: | 100.7kPa                                          |
| Test Engineer:        | Destine Hu                                        |
| Test Date:            | 2025/7/18                                         |

Full Spectrum

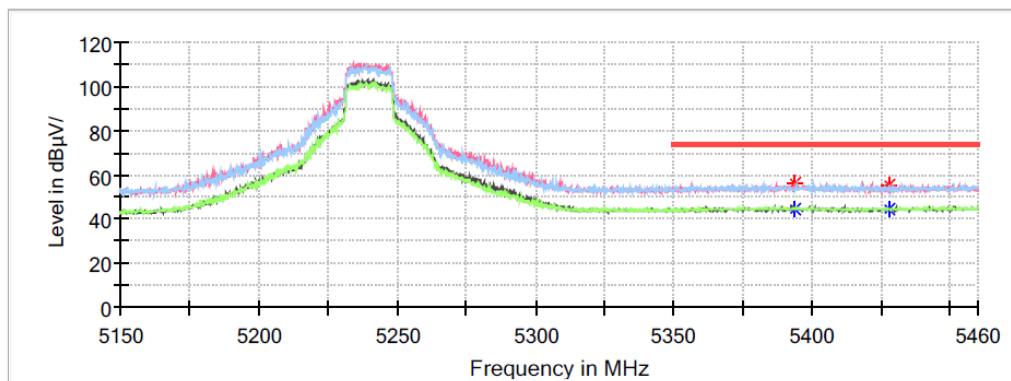
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|--------------|
| 5147.700000     | 60.35                  | ---                    | 74.00                | 13.65       | H   | 7.5          |
| 5147.700000     | ---                    | 49.17                  | 54.00                | 4.83        | H   | 7.5          |
| 5148.600000     | 60.22                  | ---                    | 74.00                | 13.78       | V   | 7.5          |
| 5148.600000     | ---                    | 50.01                  | 54.00                | 3.99        | V   | 7.5          |

## Common Information

Project No.: RKSA250707003  
 EUT Model: P053  
 Test Mode: 5G WIFI 802.11a mode High Channel  
 Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209  
 Test Equipment: ESU40,3115,PAM-0118P  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Temperature: 26.9°C  
 Humidity: 48%  
 Atmospheric Pressure: 100.7kPa  
 Test Engineer: Destine Hu  
 Test Date: 2025/7/18

Full Spectrum



## Critical\_Freqs

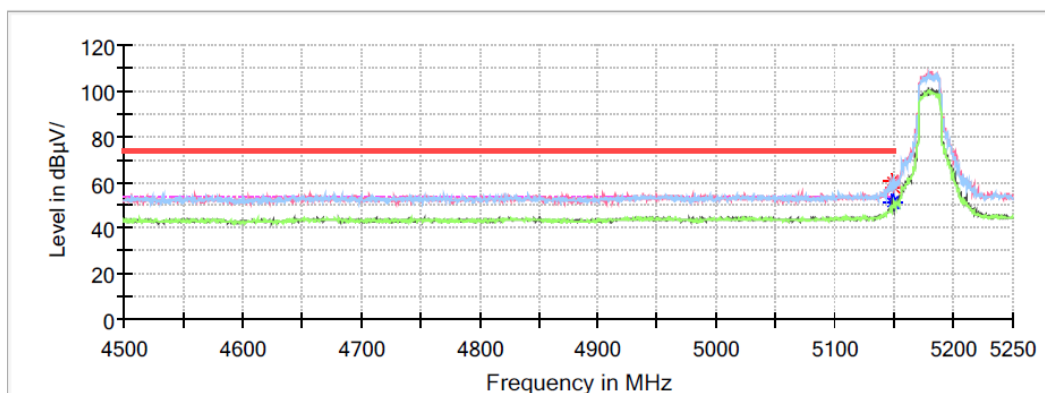
| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|--------------|
| 5393.784000     | ---                    | 44.48                  | 54.00                | 9.52        | V   | 7.7          |
| 5393.784000     | 56.36                  | ---                    | 74.00                | 17.64       | V   | 7.7          |
| 5427.760000     | ---                    | 44.79                  | 54.00                | 9.21        | H   | 7.7          |
| 5427.760000     | 55.72                  | ---                    | 74.00                | 18.28       | H   | 7.7          |



**802.11ac20 Mode:****Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: 5G WIFI 802.11ac20 mode Low Channel  
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 26.9°C  
Humidity: 48%  
Atmospheric Pressure: 100.7kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/18

Full Spectrum

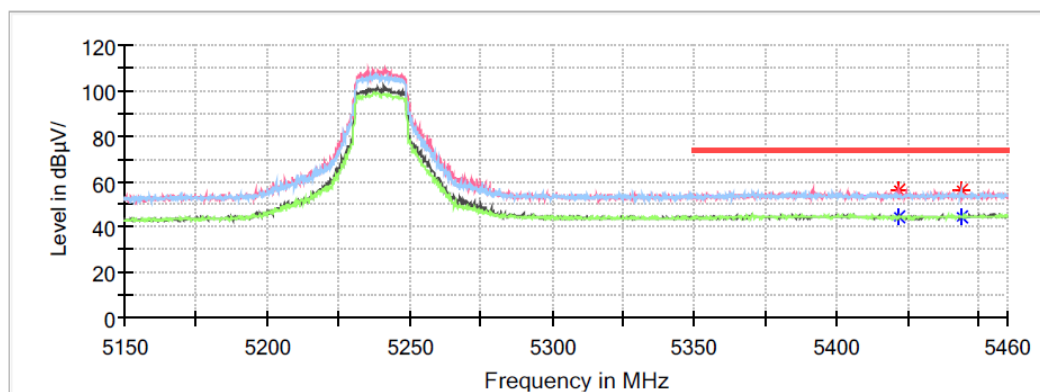
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 5148.900000     | 60.07              | ---                | 74.00            | 13.93       | V   | 7.5          |
| 5148.900000     | ---                | 50.78              | 54.00            | 3.22        | V   | 7.5          |
| 5149.800000     | 58.13              | ---                | 74.00            | 15.87       | H   | 7.5          |
| 5149.800000     | ---                | 50.81              | 54.00            | 3.19        | H   | 7.5          |

## Common Information

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: 5G WIFI 802.11ac20 mode High Channel  
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 26.9℃  
Humidity: 48%  
Atmospheric Pressure: 100.7kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/18

Full Spectrum



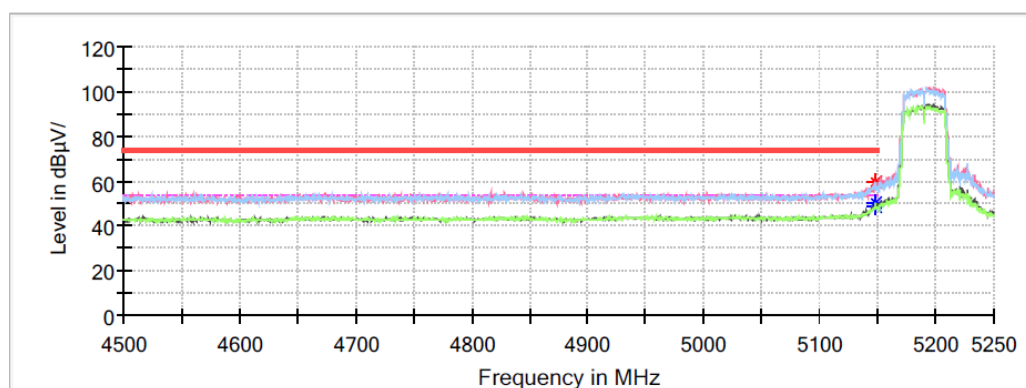
## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 5422.180000     | 56.44              | ---                | 74.00            | 17.56       | V   | 7.7          |
| 5422.180000     | ---                | 44.39              | 54.00            | 9.61        | V   | 7.7          |
| 5443.632000     | ---                | 44.72              | 54.00            | 9.28        | H   | 7.7          |
| 5443.632000     | 56.33              | ---                | 74.00            | 17.67       | H   | 7.7          |

**802.11ac40 Mode:****Common Information**

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| Project No.:          | RKSA250707003                                     |
| EUT Model:            | P053                                              |
| Test Mode:            | 5G WIFI 802.11ac40 mode Low Channel               |
| Standard:             | FCC Part 15.407& FCC Part 15.205& FCC Part 15.209 |
| Test Equipment:       | ESU40,3115,PAM-0118P                              |
| Receiver Setting:     | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto            |
| Temperature:          | 26.9℃                                             |
| Humidity:             | 48%                                               |
| Atmospheric Pressure: | 100.7kPa                                          |
| Test Engineer:        | Destine Hu                                        |
| Test Date:            | 2025/7/18                                         |

Full Spectrum

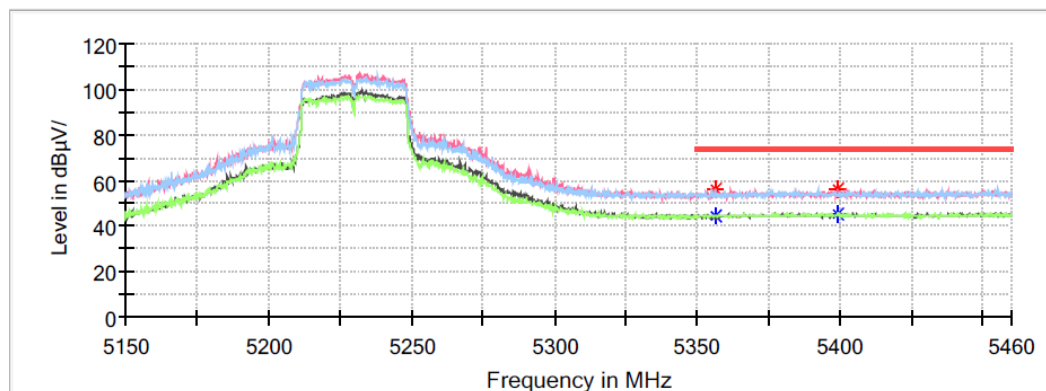
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|--------------|
| 5148.300000     | ---                    | 50.19                  | 54.00                | 3.81        | H   | 7.5          |
| 5148.300000     | 59.29                  | ---                    | 74.00                | 14.71       | H   | 7.5          |
| 5148.600000     | ---                    | 48.41                  | 54.00                | 5.59        | V   | 7.5          |
| 5148.600000     | 59.97                  | ---                    | 74.00                | 14.03       | V   | 7.5          |

## Common Information

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: 5G WIFI 802.11ac40 mode High Channel  
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 26.9℃  
Humidity: 48%  
Atmospheric Pressure: 100.7kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/18

Full Spectrum



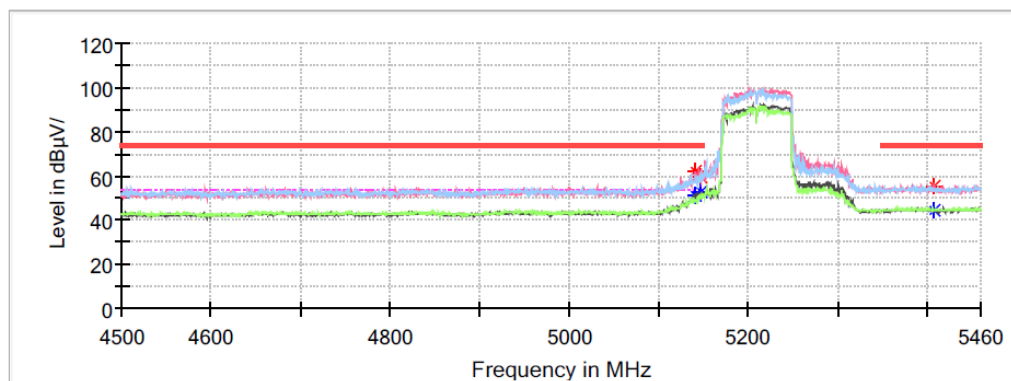
## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 5356.584000     | 56.21              | ---                | 74.00            | 17.79       | H   | 7.6          |
| 5356.584000     | ---                | 44.52              | 54.00            | 9.48        | H   | 7.6          |
| 5399.116000     | ---                | 45.35              | 54.00            | 8.65        | V   | 7.7          |
| 5399.116000     | 55.91              | ---                | 74.00            | 18.09       | V   | 7.7          |

**802.11ac80 Mode:****Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: 5G WIFI 802.11ac80 mode Middle Channel  
Standard: FCC Part 15.407& FCC Part 15.205& FCC Part 15.209  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 26.9°C  
Humidity: 48%  
Atmospheric Pressure: 100.7kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/18

Full Spectrum

**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 5141.280000     | 61.75              | ---                | 74.00            | 12.25       | V   | 7.5          |
| 5141.280000     | ---                | 51.25              | 54.00            | 2.75        | V   | 7.5          |
| 5148.192000     | 59.93              | ---                | 74.00            | 14.07       | V   | 7.5          |
| 5148.192000     | ---                | 52.74              | 54.00            | 1.26        | V   | 7.5          |
| 5408.928000     | ---                | 44.87              | 54.00            | 9.13        | H   | 7.7          |
| 5408.928000     | 55.46              | ---                | 74.00            | 18.54       | H   | 7.7          |

**Bandedge Emissions Test (5725-5850MHz Band):**

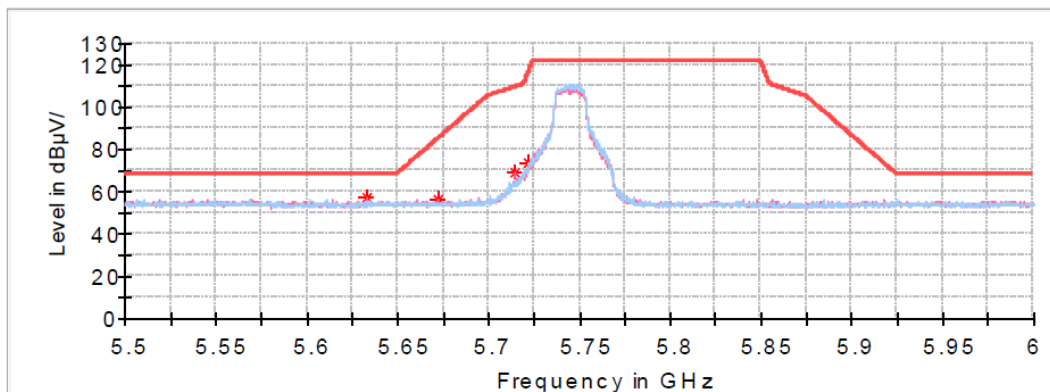
Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

**802.11a Mode:****Common Information**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Project No.:          | RKSA250707003                                       |
| EUT Model:            | P053                                                |
| Test Mode:            | Transmitting in 802.11a mode low channel            |
| Standard:             | FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407 |
| Test Equipment:       | ESU40,3115,PAM-0118P                                |
| Receiver Setting:     | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto              |
| Temperature:          | 27.4°C                                              |
| Humidity:             | 50%                                                 |
| Atmospheric Pressure: | 101.1kPa                                            |
| Test Engineer:        | Destine Hu                                          |
| Test Date:            | 2025/7/21                                           |

Full Spectrum

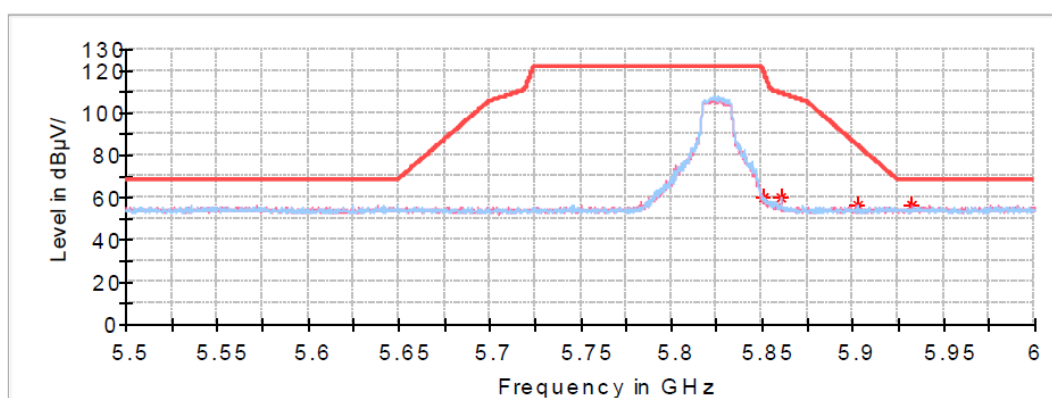
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 5633.000000     | 57.35              | ---                | 68.20            | 10.85       | V   | 7.8        |
| 5672.600000     | 56.08              | ---                | 84.92            | 28.84       | V   | 7.8        |
| 5714.800000     | 69.21              | ---                | 109.34           | 40.14       | V   | 7.8        |
| 5721.800000     | 73.58              | ---                | 114.90           | 41.33       | H   | 7.8        |

## Common Information

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Project No.:          | RKSA250707003                                       |
| EUT Model:            | P053                                                |
| Test Mode:            | Transmitting in 802.11a mode high channel           |
| Standard:             | FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407 |
| Test Equipment:       | ESU40,3115,PAM-0118P                                |
| Receiver Setting:     | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto              |
| Temperature:          | 27.4°C                                              |
| Humidity:             | 50%                                                 |
| Atmospheric Pressure: | 101.1kPa                                            |
| Test Engineer:        | Destine Hu                                          |
| Test Date:            | 2025/7/21                                           |

Full Spectrum



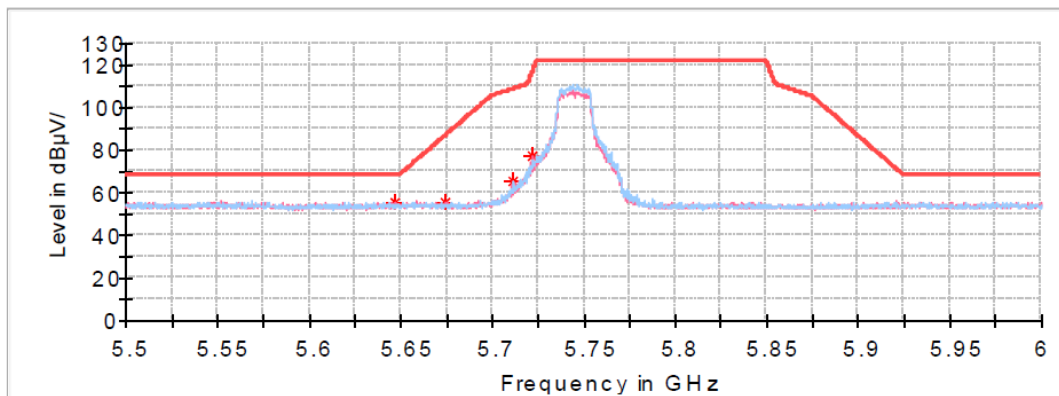
## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 5851.400000     | 59.89              | ---                | 119.01           | 59.11       | H   | 7.9        |
| 5860.600000     | 60.11              | ---                | 109.23           | 49.12       | H   | 7.9        |
| 5902.400000     | 56.04              | ---                | 84.92            | 28.88       | H   | 7.9        |
| 5932.400000     | 56.73              | ---                | 68.20            | 11.47       | V   | 7.9        |

**802.11ac20 Mode:****Common Information**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Project No.:          | RKSA250707003                                       |
| EUT Model:            | P053                                                |
| Test Mode:            | Transmitting in 802.11ac20 mode low channel         |
| Standard:             | FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407 |
| Test Equipment:       | ESU40,3115,PAM-0118P                                |
| Receiver Setting:     | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto              |
| Temperature:          | 27.4℃                                               |
| Humidity:             | 50%                                                 |
| Atmospheric Pressure: | 101.1kPa                                            |
| Test Engineer:        | Destine Hu                                          |
| Test Date:            | 2025/7/21                                           |

Full Spectrum

**Critical\_Freqs**

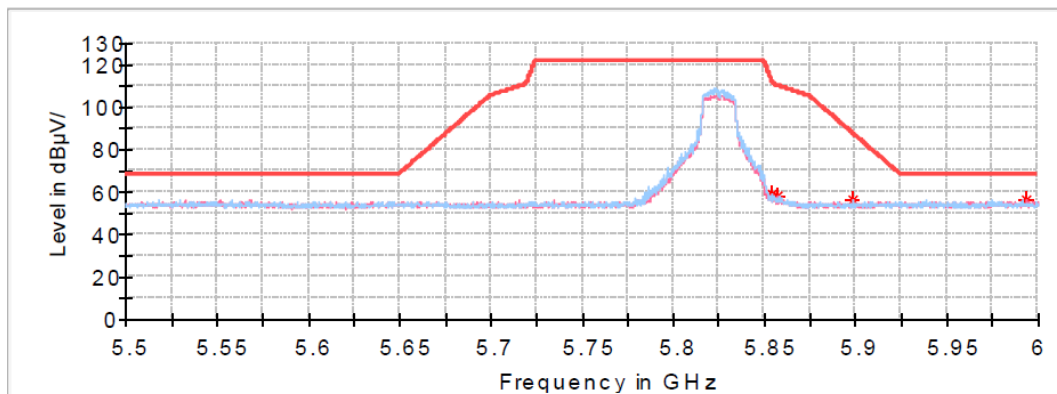
| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|------------|
| 5647.400000     | 55.86                  | ---                    | 68.20                | 12.34       | V   | 7.8        |
| 5674.200000     | 55.80                  | ---                    | 86.11                | 30.31       | V   | 7.8        |
| 5711.800000     | 65.78                  | ---                    | 108.50               | 42.73       | H   | 7.8        |
| 5722.400000     | 76.91                  | ---                    | 116.27               | 39.36       | V   | 7.8        |



## Common Information

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11ac20 mode high channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 27.4°C  
Humidity: 50%  
Atmospheric Pressure: 101.1kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/21

Full Spectrum



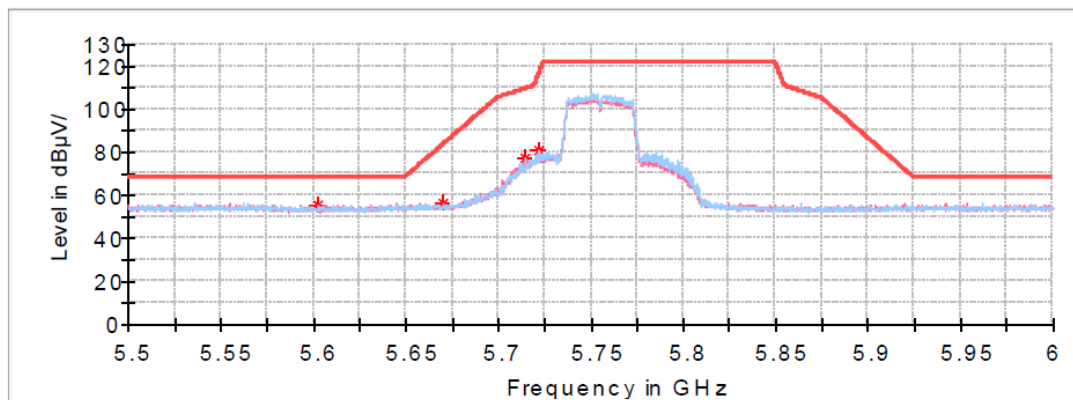
## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 5854.000000     | 59.06              | ---                | 113.08           | 54.02       | H   | 7.9        |
| 5856.800000     | 58.00              | ---                | 110.30           | 52.29       | V   | 7.9        |
| 5898.800000     | 56.21              | ---                | 87.59            | 31.38       | H   | 7.9        |
| 5993.600000     | 56.60              | ---                | 68.20            | 11.60       | V   | 8.0        |

**802.11ac40 Mode:****Common Information**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Project No.:          | RKSA250707003                                       |
| EUT Model:            | P053                                                |
| Test Mode:            | Transmitting in 802.11ac40 mode low channel         |
| Standard:             | FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407 |
| Test Equipment:       | ESU40,3115,PAM-0118P                                |
| Receiver Setting:     | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto              |
| Temperature:          | 27.4°C                                              |
| Humidity:             | 50%                                                 |
| Atmospheric Pressure: | 101.1kPa                                            |
| Test Engineer:        | Destine Hu                                          |
| Test Date:            | 2025/7/21                                           |

Full Spectrum

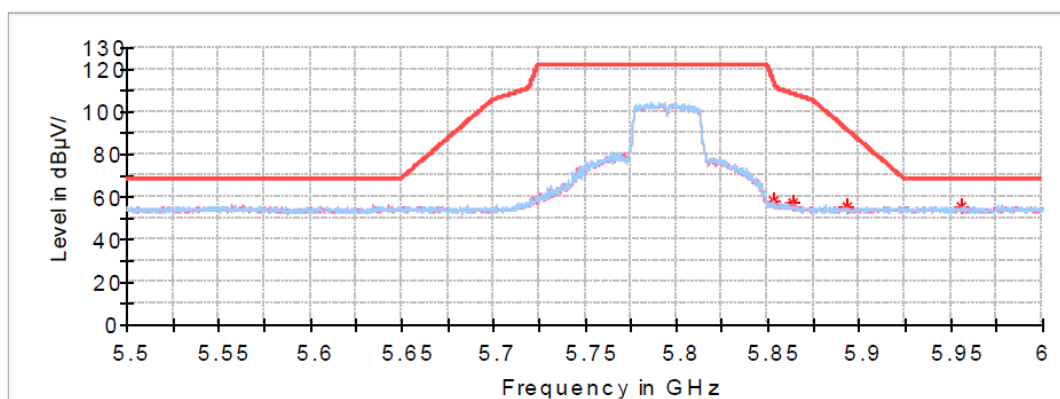
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|------------|
| 5603.000000     | 55.49                  | ---                    | 68.20                | 12.71       | V   | 7.8        |
| 5670.400000     | 56.23                  | ---                    | 83.30                | 27.07       | V   | 7.8        |
| 5714.400000     | 77.55                  | ---                    | 109.23               | 31.68       | H   | 7.8        |
| 5722.400000     | 80.63                  | ---                    | 116.27               | 35.65       | H   | 7.8        |

## Common Information

Project No.: RKSA250707003  
 EUT Model: P053  
 Test Mode: Transmitting in 802.11ac40 mode high channel  
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
 Test Equipment: ESU40, 3115, PAM-0118P  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Temperature: 27.4°C  
 Humidity: 50%  
 Atmospheric Pressure: 101.1kPa  
 Test Engineer: Destine Hu  
 Test Date: 2025/7/21

Full Spectrum



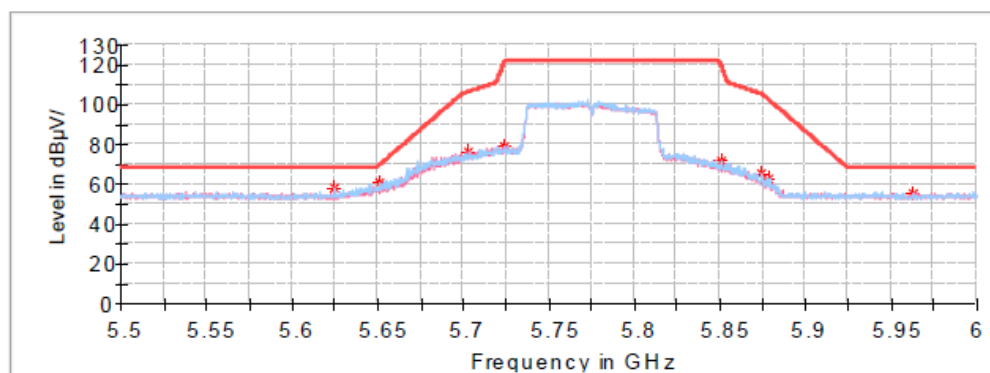
## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 5853.000000     | 58.51              | ---                | 115.36           | 56.85       | H   | 7.9        |
| 5863.200000     | 57.72              | ---                | 108.50           | 50.78       | V   | 7.9        |
| 5893.400000     | 55.88              | ---                | 91.58            | 35.70       | V   | 7.9        |
| 5955.400000     | 55.32              | ---                | 68.20            | 12.88       | V   | 7.9        |

**802.11ac80 Mode:****Common Information**

Project No.: RKSA250707003  
EUT Model: P053  
Test Mode: Transmitting in 802.11ac80 mode middle channel  
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.407  
Test Equipment: ESU40,3115,PAM-0118P  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Temperature: 27.4℃  
Humidity: 50%  
Atmospheric Pressure: 101.1kPa  
Test Engineer: Destine Hu  
Test Date: 2025/7/21

Full Spectrum

**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|------------|
| 5625.200000     | 57.76              | ---                | 68.20            | 10.44       | H   | 7.8        |
| 5651.600000     | 61.29              | ---                | 69.38            | 8.09        | H   | 7.8        |
| 5703.400000     | 76.64              | ---                | 106.15           | 29.51       | V   | 7.8        |
| 5723.800000     | 79.44              | ---                | 119.46           | 40.02       | H   | 7.8        |
| 5851.000000     | 71.44              | ---                | 119.92           | 48.48       | H   | 7.9        |
| 5874.600000     | 65.41              | ---                | 105.31           | 39.90       | H   | 7.9        |
| 5878.600000     | 62.78              | ---                | 102.54           | 39.76       | V   | 7.9        |
| 5963.200000     | 55.78              | ---                | 68.20            | 12.42       | H   | 7.9        |

**EMISSION BANDWIDTH****Environmental Conditions & Test Information**

|                           |                          |
|---------------------------|--------------------------|
| <b>Test Date:</b>         | 2025-07-23 to 2025-08-29 |
| <b>Temperature:</b>       | 24.5-25 °C               |
| <b>Relative Humidity:</b> | 51-54 %                  |
| <b>ATM Pressure:</b>      | 100.6-101.5kPa           |
| <b>Test Engineer:</b>     | Jason Lu                 |

**Test Result:** Compliant*5150-5250 MHz:*

| Test mode   | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) | 99% Bandwidth (MHz) |
|-------------|---------|-----------------|----------------------|---------------------|
| 802.11 a    | Low     | 5180            | 23.853               | 16.700              |
|             | Middle  | 5200            | 24.603               | 16.700              |
|             | High    | 5240            | 24.205               | 16.750              |
| 802.11 ac20 | Low     | 5180            | 25.554               | 17.900              |
|             | Middle  | 5200            | 25.880               | 17.900              |
|             | High    | 5240            | 25.606               | 17.850              |
| 802.11 ac40 | Low     | 5190            | 42.100               | 36.400              |
|             | High    | 5230            | 41.900               | 36.400              |
| 802.11 ac80 | Middle  | 5210            | 83.200               | 75.800              |

*Note: the 99% Occupied Bandwidth have not fall into the band 5250-5350MHz*

5725-5850MHz:

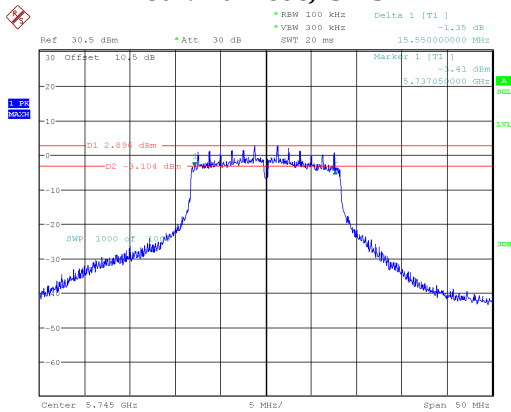
| Test mode   | Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|-------------|---------|-----------------|---------------------|
| 802.11 a    | Low     | 5745            | 16.750              |
|             | Middle  | 5785            | 16.800              |
|             | High    | 5825            | 16.800              |
| 802.11 ac20 | Low     | 5745            | 17.850              |
|             | Middle  | 5785            | 17.950              |
|             | High    | 5825            | 17.900              |
| 802.11 ac40 | Low     | 5755            | 36.600              |
|             | High    | 5795            | 36.700              |
| 802.11 ac80 | Middle  | 5775            | 76.600              |

Note: the 99% Occupied Bandwidth have not fall into the band 5470-5725MHz.

| Test mode   | Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) |
|-------------|---------|-----------------|---------------------|-------------|
| 802.11 a    | Low     | 5745            | 15.550              | 0.5         |
|             | Middle  | 5785            | 15.800              |             |
|             | High    | 5825            | 15.850              |             |
| 802.11 ac20 | Low     | 5745            | 15.600              |             |
|             | Middle  | 5785            | 16.400              |             |
|             | High    | 5825            | 15.250              |             |
| 802.11 ac40 | Low     | 5755            | 35.900              |             |
|             | High    | 5795            | 36.000              |             |
| 802.11 ac80 | Middle  | 5775            | 76.200              |             |

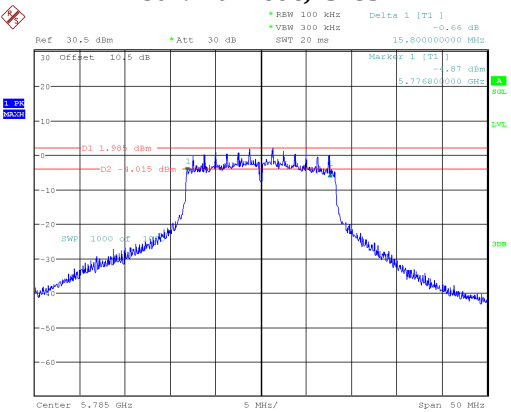
6dB Bandwidth  
5725-5850 MHz Band

802.11a mode, 5745MHz



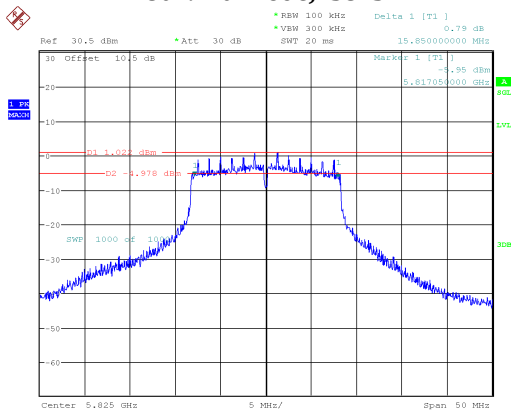
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 12.AUG.2025 09:49:22

802.11a mode, 5785MHz



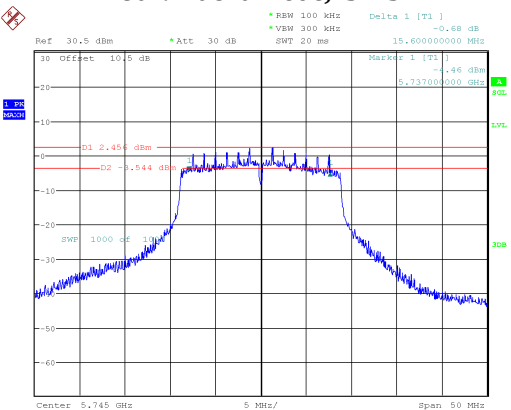
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 12.AUG.2025 09:51:30

802.11a mode, 5825MHz

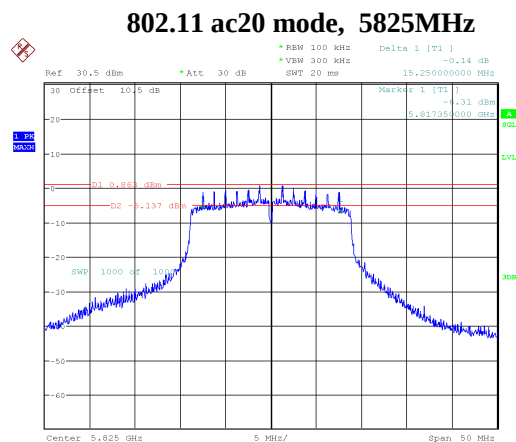


ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 12.AUG.2025 09:54:39

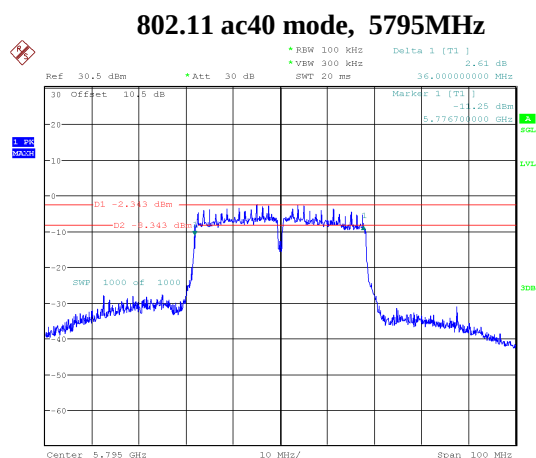
802.11ac20 mode, 5745MHz



ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 12.AUG.2025 09:57:08



ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 12.AUG.2025 10:00:38



ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 12.AUG.2025 10:05:48





### 802.11a mode, 5180MHz

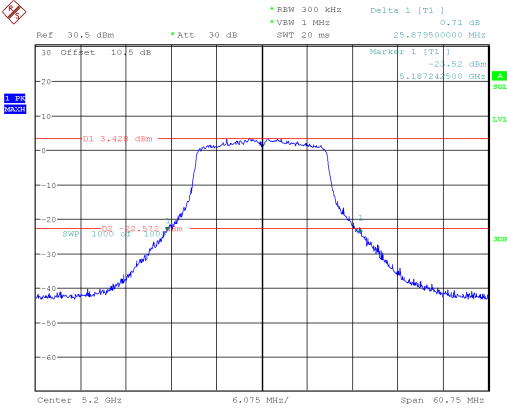


ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 23.JUL.2025 19:50:28

ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 23.JUL.2025 19:55:03

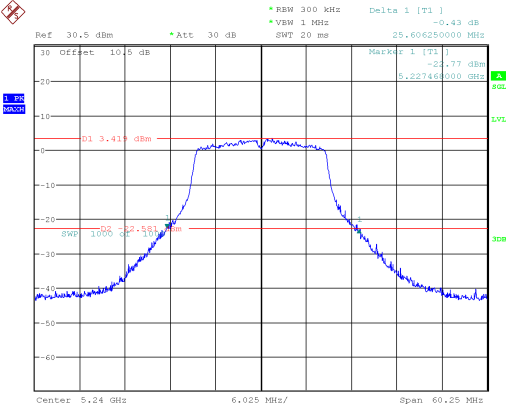
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 23.JUL.2025 20:00:04

802.11 ac20 mode, 5200MHz



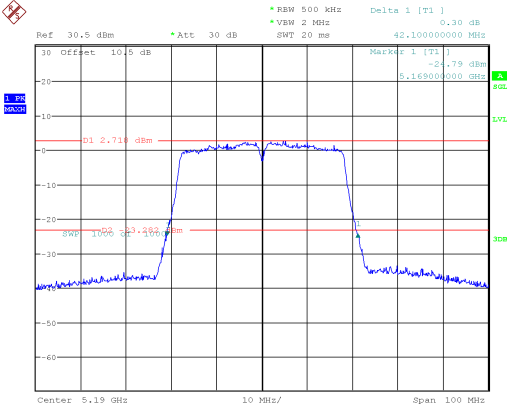
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 10:31:48

802.11 ac20 mode, 5240MHz



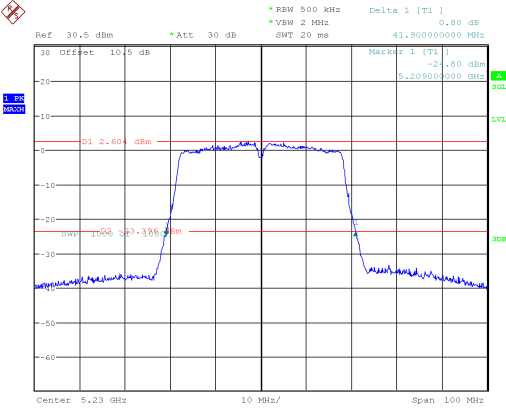
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 10:36:26

802.11ac40 mode, 5190MHz



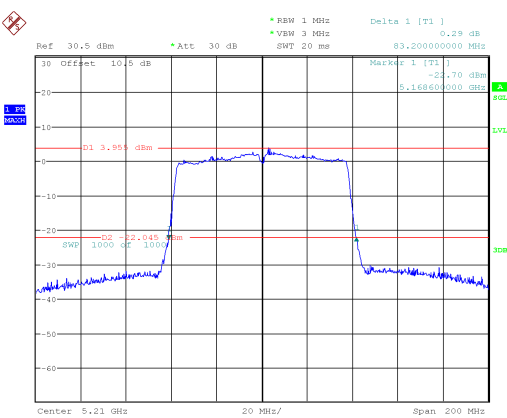
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 10:40:53

802.11 ac40 mode, 5230MHz



ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 10:48:09

802.11ac80 mode, 5210MHz

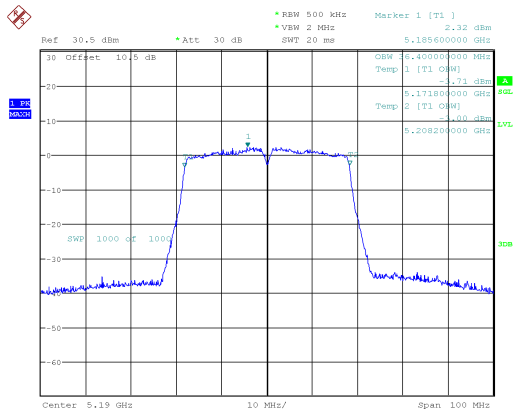


ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 10:53:53

## 802.11a mode,\_5180MHz

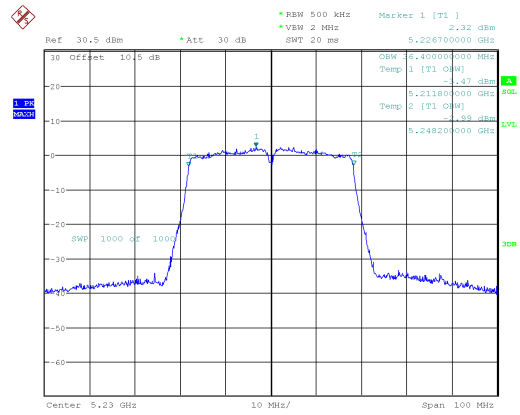


## 802.11ac40 mode,\_5190MHz



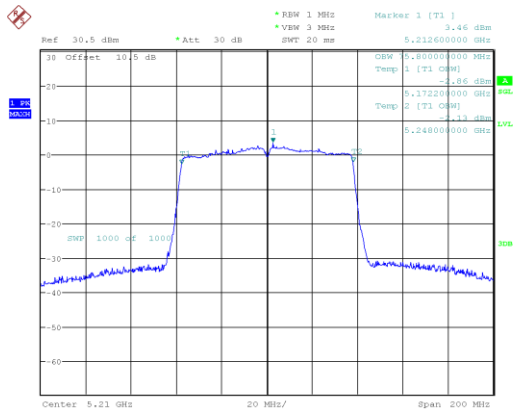
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 10:42:37

## 802.11ac40 mode,\_5230MHz



ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 10:49:50

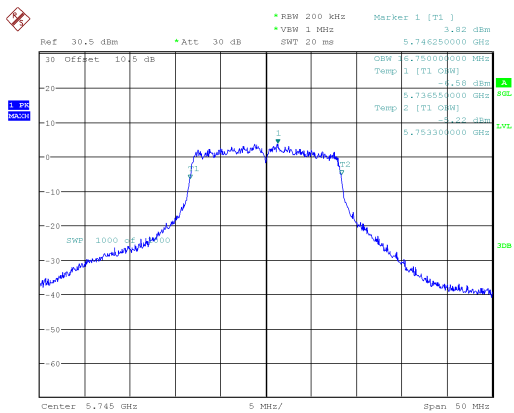
## 802.11ac80 mode,\_5210MHz



ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 10:55:37

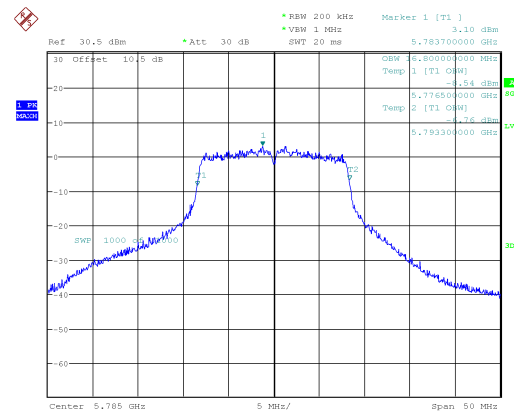
5725-5850 MHz Band

802.11a mode, 5745MHz



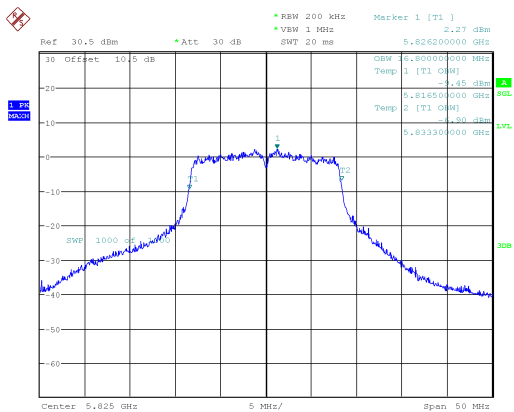
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:00:34

802.11a mode, 5785MHz



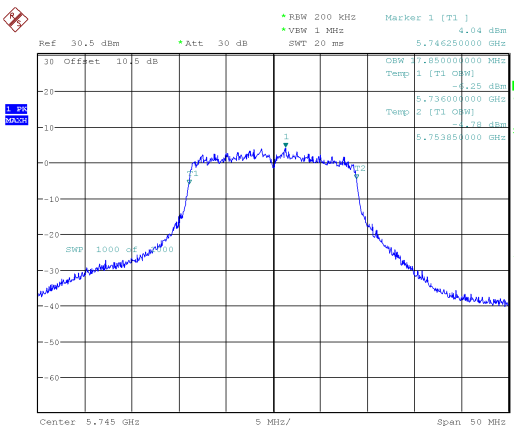
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:06:03

802.11a mode, 5825MHz



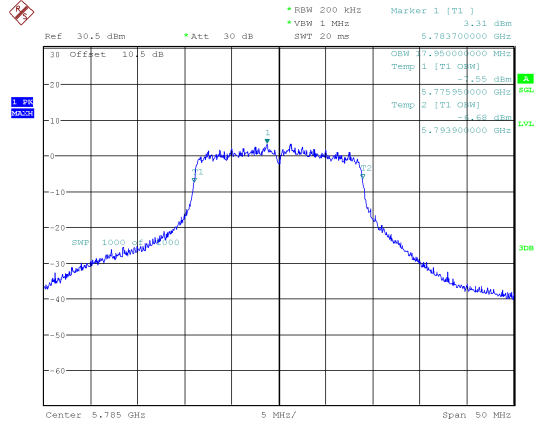
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:10:59

802.11ac20 mode, 5745MHz



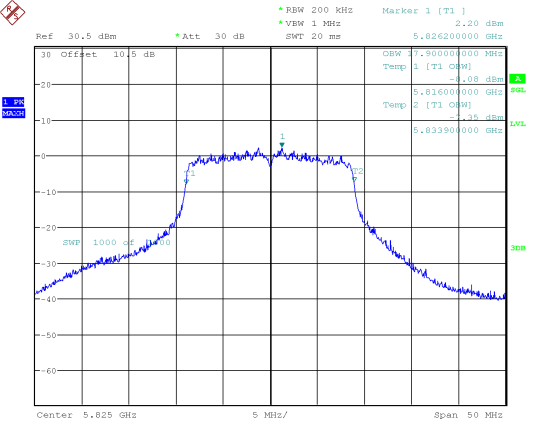
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:15:17

802.11 ac20 mode, 5785MHz



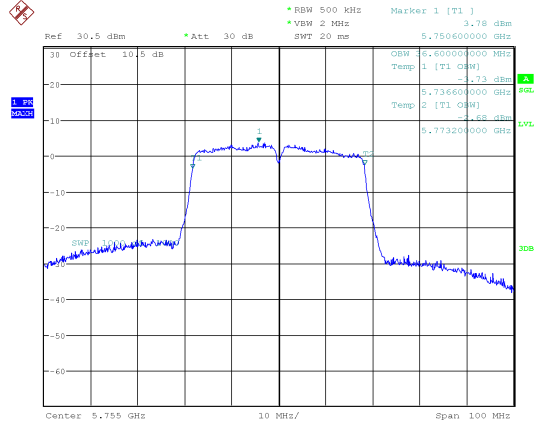
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:19:44

802.11 ac20 mode, 5825MHz



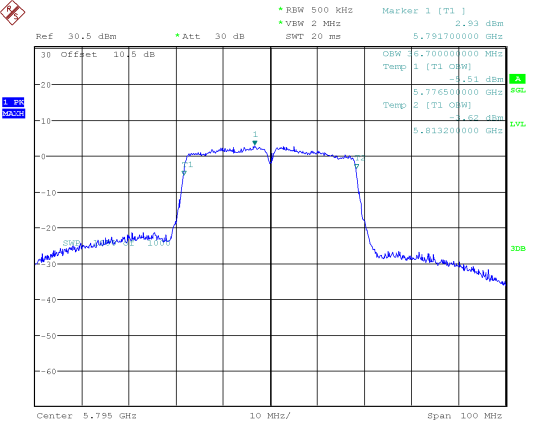
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:25:02

802.11ac40 mode, 5755MHz



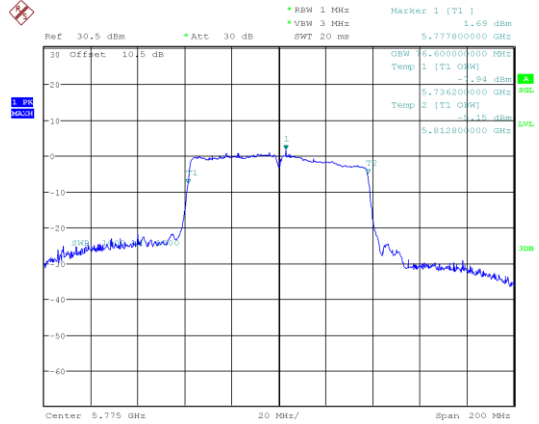
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:29:47

802.11 ac40 mode, 5795MHz



ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 24.JUL.2025 11:36:53

802.11 ac80 mode, 5775MHz



ProjectNo.:RKSA250707003 Tester:Neil Zhou  
Date: 29.AUG.2025 14:46:02

**CONDUCTED TRANSMITTER OUTPUT POWER****Environmental Conditions & Test Information**

|                           |            |
|---------------------------|------------|
| <b>Test Date:</b>         | 2025-08-01 |
| <b>Temperature:</b>       | 25.2°C     |
| <b>Relative Humidity:</b> | 52 %       |
| <b>ATM Pressure:</b>      | 102.1 kPa  |
| <b>Test Engineer:</b>     | Jason Lu   |

*Test Mode: Transmitting*

| Band          | Mode        | Frequency (MHz) | Conducted Average Power (dBm) | Limit (dBm) |        |
|---------------|-------------|-----------------|-------------------------------|-------------|--------|
|               |             |                 |                               | client      | master |
| 5150-5250 MHz | 802.11 a    | 5180            | 13.62                         | 24          | 30     |
|               |             | 5200            | 13.68                         |             |        |
|               |             | 5240            | 12.98                         |             |        |
|               | 802.11 ac20 | 5180            | 13.52                         |             |        |
|               |             | 5200            | 13.64                         |             |        |
|               |             | 5240            | 12.89                         |             |        |
|               | 802.11 ac40 | 5190            | 11.27                         |             |        |
|               |             | 5230            | 11.03                         |             |        |
|               | 802.11 ac80 | 5210            | 10.94                         |             |        |
|               |             |                 |                               |             |        |

Note: the EUT is a client and master equipment.

| Band          | Mode        | Channel | Frequency (MHz) | Conducted Average Power (dBm) | Limit (dBm) |
|---------------|-------------|---------|-----------------|-------------------------------|-------------|
| 5725-5850 MHz | 802.11 a    | Low     | 5745            | 14.40                         | 30          |
|               |             | Middle  | 5785            | 12.09                         |             |
|               |             | High    | 5825            | 11.62                         |             |
|               | 802.11 ac20 | Low     | 5745            | 12.96                         |             |
|               |             | Middle  | 5785            | 12.11                         |             |
|               |             | High    | 5825            | 11.66                         |             |
|               | 802.11 ac40 | Low     | 5755            | 13.56                         |             |
|               |             | High    | 5795            | 12.94                         |             |
|               | 802.11 ac80 | Middle  | 5775            | 13.36                         |             |
|               |             |         |                 |                               |             |

**POWER SPECTRAL DENSITY****Environmental Conditions & Test Information**

|                           |            |
|---------------------------|------------|
| <b>Test Date:</b>         | 2025-08-01 |
| <b>Temperature:</b>       | 25.2℃      |
| <b>Relative Humidity:</b> | 52 %       |
| <b>ATM Pressure:</b>      | 102.1 kPa  |
| <b>Test Engineer:</b>     | Jason Lu   |

*Test Mode: Transmitting*

| Band          | Mode        | Channel | Frequency (MHz) | Reading (dBm/MHz) | Duty Cycle Factor (dB) | Result (dBm/MHz) | Limit (dBm/MHz) |        |
|---------------|-------------|---------|-----------------|-------------------|------------------------|------------------|-----------------|--------|
|               |             |         |                 |                   |                        |                  | client          | master |
| 5150-5250 MHz | 802.11 a    | Low     | 5180            | 3.20              | /                      | 3.20             | 11              | 17     |
|               |             | Middle  | 5200            | 3.31              | /                      | 3.31             |                 |        |
|               |             | High    | 5240            | 2.63              | /                      | 2.63             |                 |        |
|               | 802.11 ac20 | Low     | 5180            | 2.81              | 0.09                   | 2.90             |                 |        |
|               |             | Middle  | 5200            | 2.95              | 0.09                   | 3.04             |                 |        |
|               |             | High    | 5240            | 2.19              | 0.09                   | 2.28             |                 |        |
|               | 802.11 ac40 | Low     | 5190            | -2.48             | 0.16                   | -2.32            |                 |        |
|               |             | High    | 5230            | -2.69             | 0.16                   | -2.53            |                 |        |
|               | 802.11 ac80 | Middle  | 5210            | -6.14             | 0.38                   | -5.76            |                 |        |

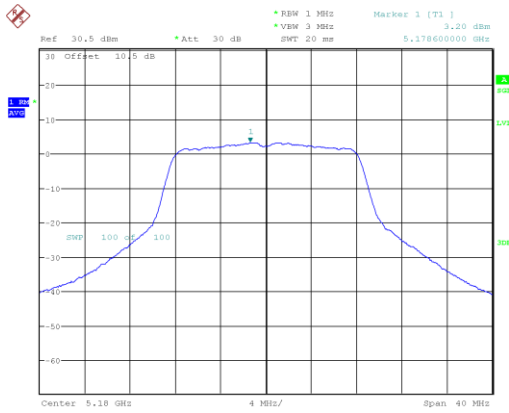
| Band          | Mode        | Channel | Frequency (MHz) | Reading (dBm/500kHz) | Duty Cycle Factor (dB) | Result (dBm/500kHz) | Limit (dBm/500kHz) |
|---------------|-------------|---------|-----------------|----------------------|------------------------|---------------------|--------------------|
| 5725-5850 MHz | 802.11 a    | Low     | 5745            | 1.02                 | /                      | 1.02                | 30                 |
|               |             | Middle  | 5785            | -1.31                | /                      | -1.31               |                    |
|               |             | High    | 5825            | -1.84                | /                      | -1.84               |                    |
|               | 802.11 ac20 | Low     | 5745            | -0.74                | 0.09                   | -0.65               |                    |
|               |             | Middle  | 5785            | -1.62                | 0.09                   | -1.53               |                    |
|               |             | High    | 5825            | -2.15                | 0.09                   | -2.06               |                    |
|               | 802.11 ac40 | Low     | 5755            | -3.13                | 0.17                   | -2.96               |                    |
|               |             | High    | 5795            | -3.85                | 0.17                   | -3.68               |                    |
|               | 802.11 ac80 | Middle  | 5775            | -6.43                | 0.36                   | -6.07               |                    |

Note: Result=Reading+ Duty Cycle Factor



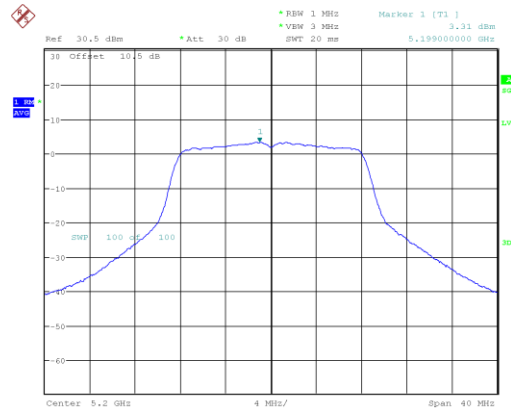
**5150MHz-5250 MHz Band:**

**802.11a mode, Power spectral density-5180MHz**



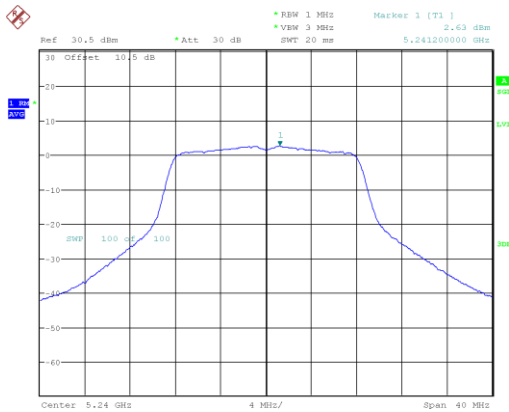
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 17:32:35

**802.11a mode, Power spectral density-5200MHz**



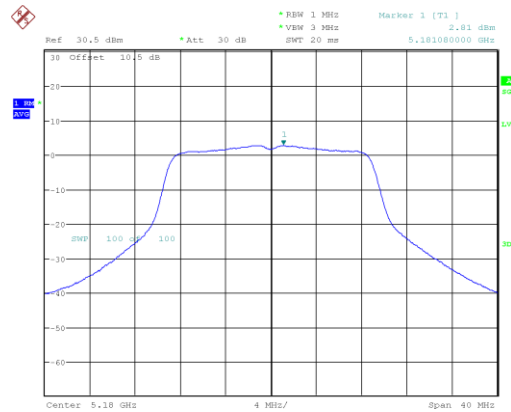
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 17:33:44

**802.11a mode, Power spectral density-5240MHz**



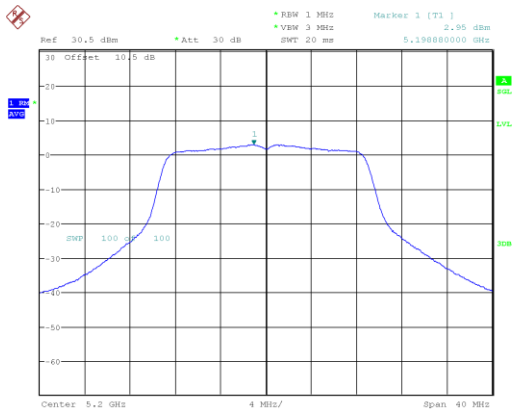
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 17:34:39

**802.11ac20 mode, Power spectral density-5180MHz**

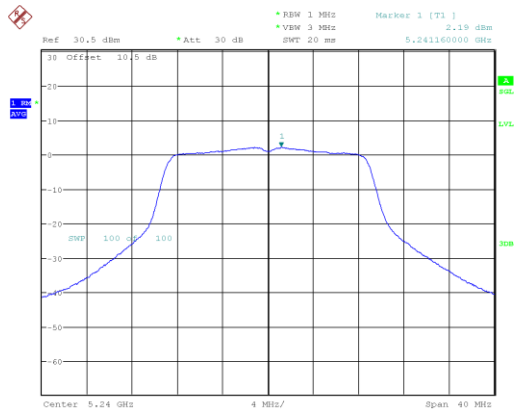


ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 17:36:30

802.11 ac20 mode, Power spectral density-5200MHz      802.11 ac20 mode, Power spectral density-5240MHz

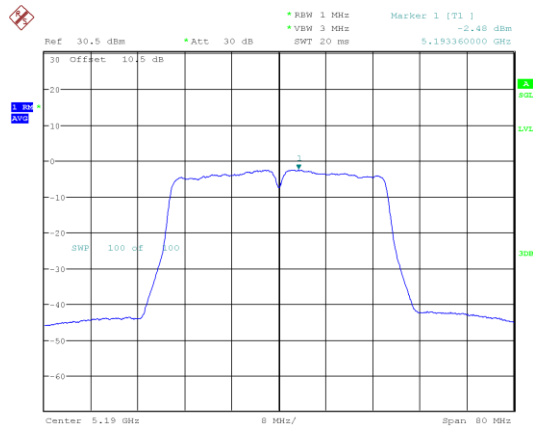


ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 17:37:25

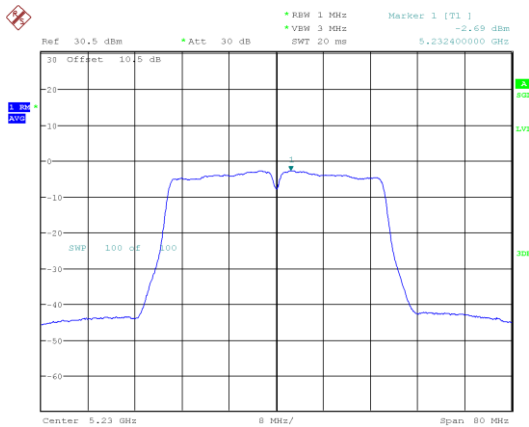


ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 17:38:09

802.11ac40 mode, Power spectral density-5190MHz      802.11 ac40 mode, Power spectral density-5230MHz

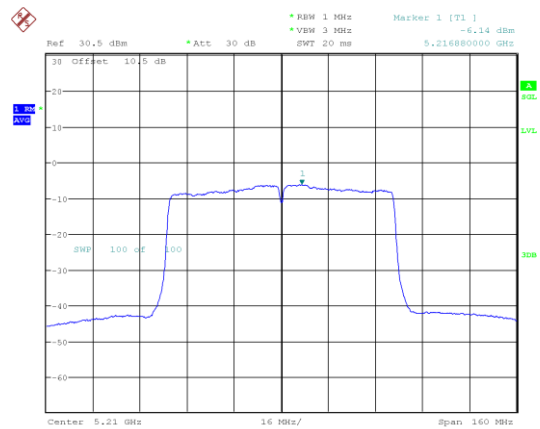


ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 17:40:09



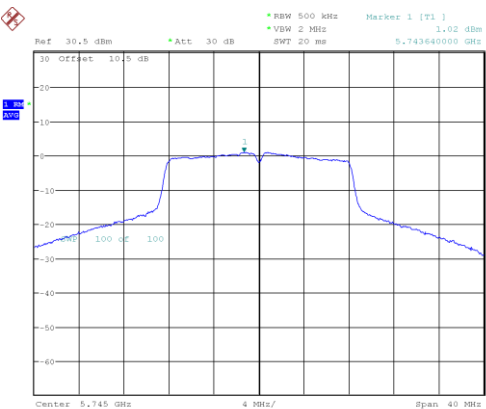
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 17:40:56

802.11 ac80 mode, Power spectral density-5210MHz



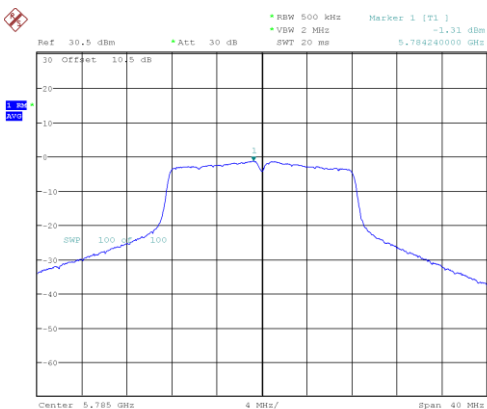
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 17:42:15

5725MHz-5850 MHz Band:  
802.11a mode, Power spectral density-5745MHz



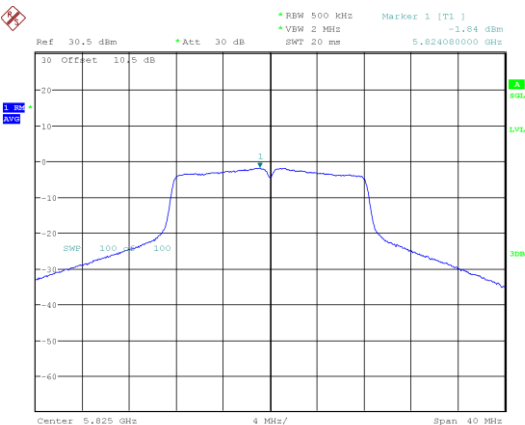
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 09:54:50

802.11a mode, Power spectral density-5785MHz



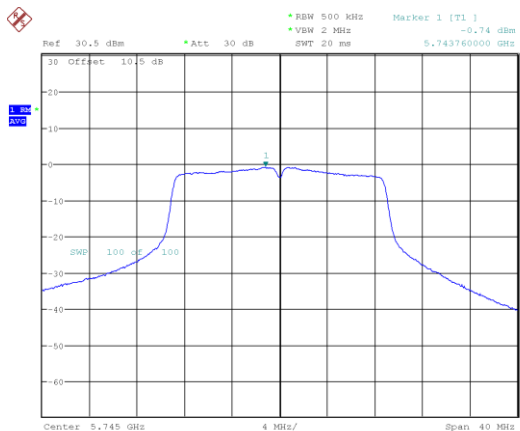
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 10:03:33

802.11a mode, Power spectral density-5825MHz



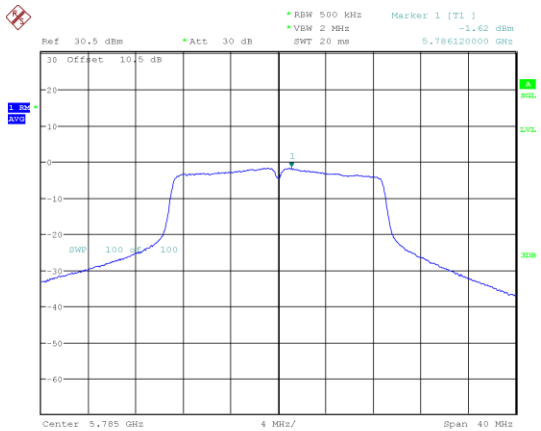
ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 10:04:16

802.11ac20 mode, Power spectral density-5745MHz

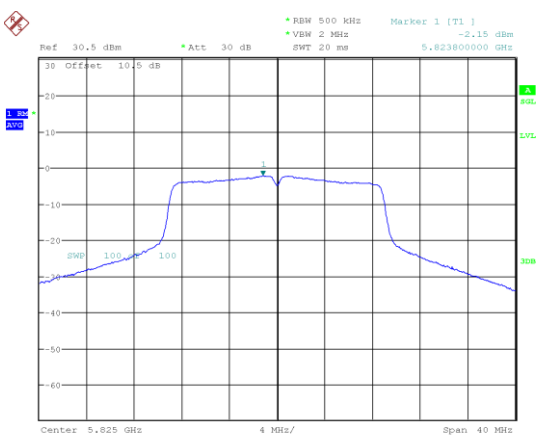


ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 10:05:59

802.11 ac20 mode, Power spectral density-5785MHz      802.11 ac20 mode, Power spectral density-5825MHz

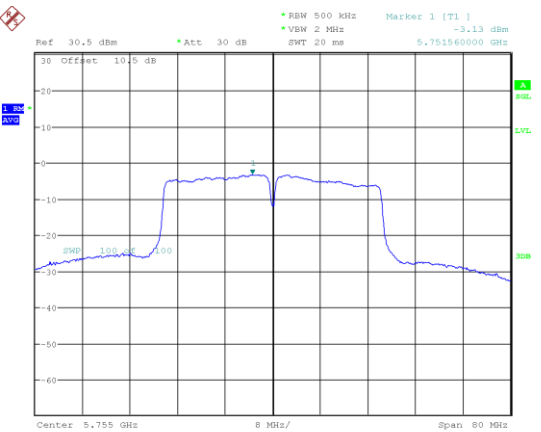


ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 10:07:30

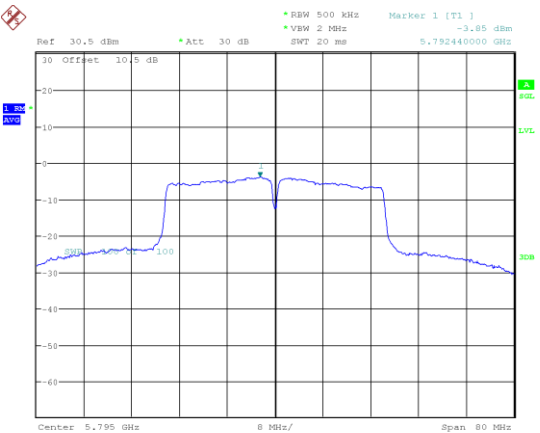


ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 10:08:13

802.11ac40 mode, Power spectral density-5755MHz      802.11 ac40 mode, Power spectral density-5795MHz

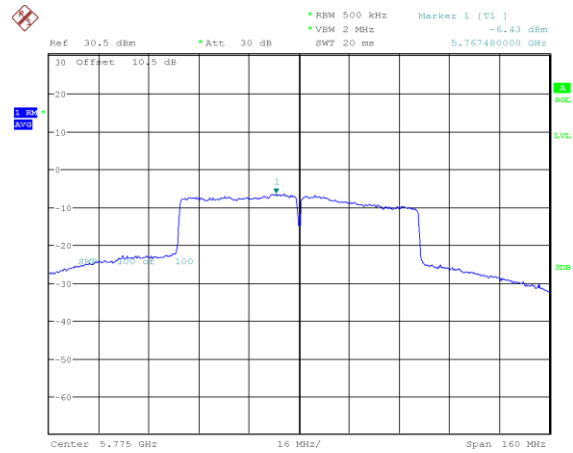


ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 10:09:44



ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 10:10:25

### 802.11 ac80 mode, Power spectral density-5775MHz



ProjectNo.:RKSA250707003 Tester:Jason Lu  
Date: 1.AUG.2025 10:11:42

### **Declarations**

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. 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.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor  $k=2$  with the 95.45% confidence interval.

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