

## FCC PART 15.247

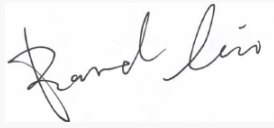
## TEST REPORT

For

**Shanghai Xiangcheng Communication Technology Co.,Ltd**

6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai, China

**FCC ID: 2A2UU-P14**

|                                                                                                                                                                                                                                                 |                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Report Type:</b><br>Class II permissive change Report                                                                                                                                                                                        | <b>Product Name:</b><br>Smart POS Terminal                                           |
| <b>Report Number:</b> RKSA240620011-00B                                                                                                                                                                                                         |                                                                                      |
| <b>Report Date:</b> 2025-05-20                                                                                                                                                                                                                  |                                                                                      |
| <b>Reviewed By:</b> Bard Liu                                                                                                                                                                                                                    |  |
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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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**DOCUMENT HISTORY**

| Revision | Release Data | Description of Revision           | Report Number     |
|----------|--------------|-----------------------------------|-------------------|
| R1V1     | 2025-05-20   | Class II permissive change Report | RKSA240620011-00B |

## FILING DESCRIPTION

| Report Number     | Information about changes                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------|
| RKSA240620011-00B | Adapter; Battery; Wifi/BT Antenna; WWAN Antenna;SIM card slot, Memory, Add 2.4G Hotspot function |

**Note:**

This is a C2PC report, based on CR231168756-00A★, CR231168756-00C★ grant on 03/11/2024, the details as below:

1. Add an adapter, its model is LM-603U-050200U02UL.
2. Add a new battery, its model is F50051MA, the supplier is Dongguan HongDe Battery Co.Ltd
3. Add a new battery,the model is F50051MA (only model name different with original.)
4. Change the wifi/BT Antenna.
5. Change the SIM card slot.
6. Change the WWAN Antenna.
7. Change memory from Vender: BIWIN Vender Model :BWCC2X32N2A-16G-X to Vender: LONGSYS Vender Model :FLXC2002G-N2
8. Add 2.4G WiFi Hotspot function through software which not affect RF performance

For above changes, we “Spot Check With Maximum Conducted Output Power”, and tested “Conducted Emissions” and “Radiated Emissions”and update related photos, other data and photos were referred to the original report CR231168756-00A★, CR231168756-00C★.

## GENERAL INFORMATION

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

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| Applicant                   | Shanghai Xiangcheng Communication Technology Co.,Ltd                                                     |
| Tested Model                | P14                                                                                                      |
| Product Name                | Smart POS Terminal                                                                                       |
| Power Supply                | DC 3.8V from battery or DC 5V charging by adapter                                                        |
| RF Function:                | 2.4G Wi-Fi; BLE                                                                                          |
| Operating Band/Frequency:   | 2.4G Wi-Fi:<br>2412~2462 MHz(802.11b/g/n20), 2422~2452 MHz(802.11n40)<br>BLE(1Mbps/2Mbps): 2402-2480 MHz |
| ★Maximum Peak Output Power: | 2.4G Wi-Fi: 21.95 dBm<br>BLE(1Mbps): -3.07 dBm<br>BLE(2Mbps): -3.01 dBm                                  |
| Channel Number:             | 2.4G Wi-Fi: 11(802.11b/g/n20), 7(802.11n40)<br>BLE: 40                                                   |
| Channel Separation:         | 2.4G Wi-Fi: 5 MHz<br>BLE: 2 MHz                                                                          |
| Modulation Type:            | 2.4G Wi-Fi: DSSS, OFDM<br>BLE: GFSK                                                                      |
| Antenna Type:               | 2.4G Wi-Fi /BLE: IFA antenna                                                                             |
| ★Maximum Antenna Gain:      | 2.4G Wi-Fi:1.89 dBi<br>BLE:1.89 dBi                                                                      |

#### Adapter information

Model: LM-603U-050200U02UL

Input: 100-240V, 50/60Hz, 0.35A

Output: 5V, 2000mA, 10.0W

*Note: The maximum antenna gain is provided by the applicant.*

*All measurement and tested data in this report was gathered from production sample serial number:*

*RKSA240620011-1 (Assigned by BACL (Kunshan). The EUT supplied by the applicant was received on 2024-06-20.)*

### Objective

This report is prepared for *Shanghai Xiangcheng Communication Technology Co.,Ltd* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions' rules.

The tests were performed in order to determine Compliant with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

**Test Methodology**

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliant Testing of Unlicensed Wireless Devices and FCC 558074 D01 15.247 Meas Guidance v05r02.

**Measurement Uncertainty**

| Item                               |                | Uncertainty |
|------------------------------------|----------------|-------------|
| AC Power Lines Conducted Emissions |                | 3.19dB      |
| 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°C       |
| 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

Channel List for BLE mode:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 0       | 2402            | 14      | 2430            | 28      | 2458            |
| 1       | 2404            | 15      | 2432            | 29      | 2460            |
| 2       | 2406            | 16      | 2434            | 30      | 2462            |
| 3       | 2408            | 17      | 2436            | 31      | 2464            |
| 4       | 2410            | 18      | 2438            | 32      | 2466            |
| 5       | 2412            | 19      | 2440            | 33      | 2468            |
| 6       | 2414            | 20      | 2442            | 34      | 2470            |
| 7       | 2416            | 21      | 2444            | 35      | 2472            |
| 8       | 2418            | 22      | 2446            | 36      | 2474            |
| 9       | 2420            | 23      | 2448            | 37      | 2476            |
| 10      | 2422            | 24      | 2450            | 38      | 2478            |
| 11      | 2424            | 25      | 2452            | 39      | 2480            |
| 12      | 2426            | 26      | 2454            | /       | /               |
| 13      | 2428            | 27      | 2456            | /       | /               |

EUT was tested with channel 0, 19 and 39.

Channel List for Wi-Fi Mode:

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

For 802.11b, 802.11g, 802.11n-HT20 mode, EUT was tested with Channel 1, 6 and 11.  
802.11n-HT20 mode, EUT was tested with Channel 3, 6 and 9.

**Equipment Modifications**

No modification was made to the EUT tested.

**EUT Exercise Software**

RF test tool: Engineer mode

Pre-scan with all the data rates, and the worst case was performed as below:

| Mode         | Data Rate | Channel (MHz) | ★Power Level |
|--------------|-----------|---------------|--------------|
| 802.11b      | 1 Mbps    | 2412          | 16           |
|              |           | 2437          | 16           |
|              |           | 2462          | 16           |
| 802.11g      | 6 Mbps    | 2412          | 16           |
|              |           | 2437          | 16           |
|              |           | 2462          | 16           |
| 802.11n-HT20 | MCS0      | 2412          | 14           |
|              |           | 2437          | 14           |
|              |           | 2462          | 14           |
| 802.11n-HT40 | MCS0      | 2422          | 14           |
|              |           | 2437          | 14           |
|              |           | 2452          | 14           |
| BLE(1Mbps)   | 1 Mbps    | 2402          | Default      |
|              |           | 2440          | Default      |
|              |           | 2480          | Default      |
| BLE(2Mbps)   | 2 Mbps    | 2402          | Default      |
|              |           | 2440          | Default      |
|              |           | 2480          | Default      |

Note: The power level was declared by the applicant.

**Support Equipment List and Details**

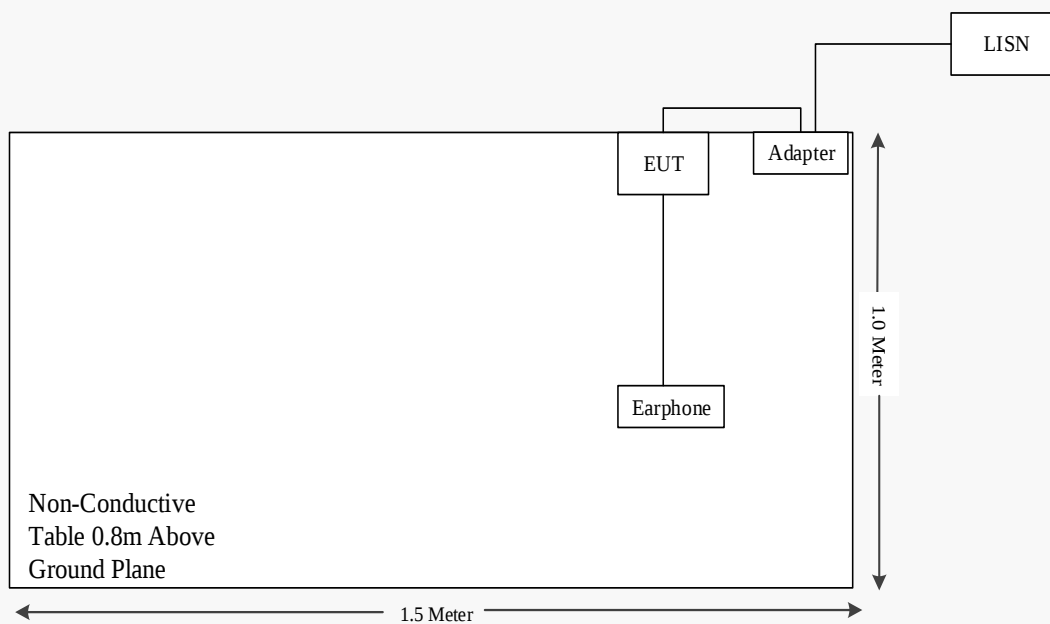
| Manufacturer | Description | Model   | Serial Number |
|--------------|-------------|---------|---------------|
| Unknown      | Earphone    | Unknown | Unknown       |

**External I/O Cable**

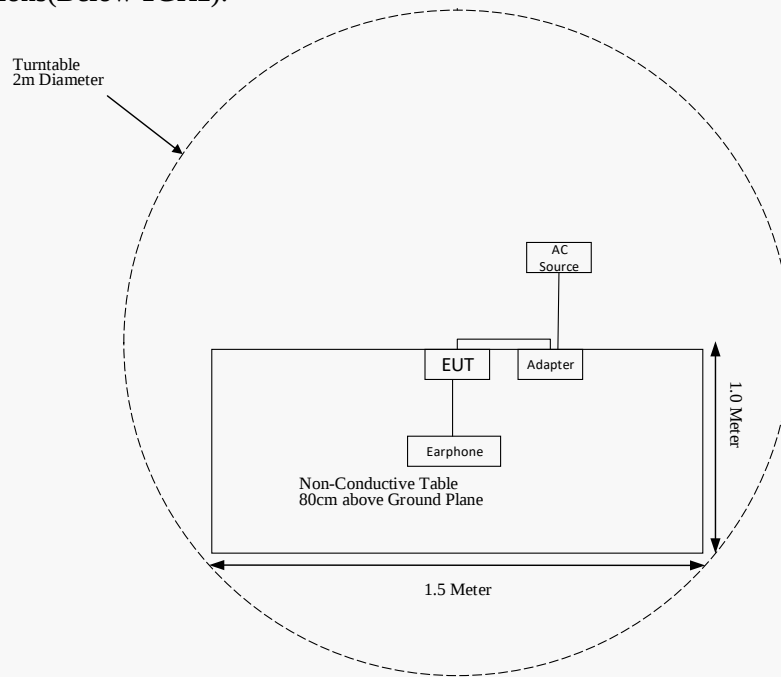
| Cable Description | Length(m) | From Port      | To Port  |
|-------------------|-----------|----------------|----------|
| Power Cable 1     | 1.0       | AC Source/LISN | Adapter  |
| USB Cable 1       | 1.0       | Adapter        | EUT      |
| Audio Cable 1     | 1.0       | EUT            | Earphone |

**Block Diagram of Test Setup**

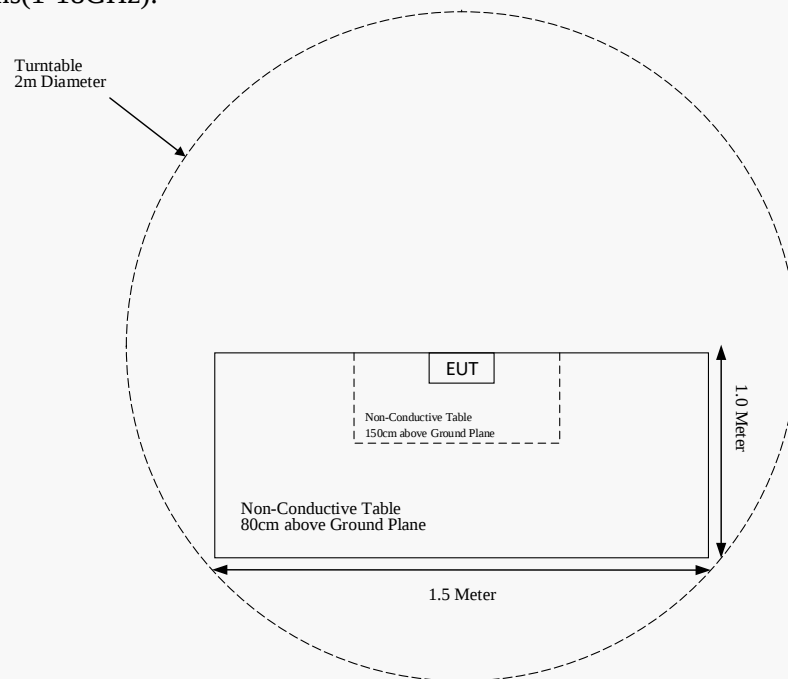
For Conducted Emissions:



For Radiated Emissions(Below 1GHz):



For Radiated Emissions(1-18GHz):



**SUMMARY OF TEST RESULTS**

| FCC Rules                    | Description of Test                      | Result    | Remark    |
|------------------------------|------------------------------------------|-----------|-----------|
| §1.1307(b)(1)& §2.1093       | RF EXPOSURE                              | Compliant | ---       |
| §15.203                      | Antenna Requirement                      | Compliant | ---       |
| §15.207 (a)                  | AC Line Conducted Emissions              | Compliant | ---       |
| §15.205, §15.209, §15.247(d) | Spurious Emissions                       | Compliant | ---       |
| §15.247 (a)(2)               | 6 dB Emission Bandwidth                  | ---       | See Note★ |
| §15.247(b)(3)                | Maximum Conducted Output Power           | Reporting | ---       |
| §15.247(d)                   | 100 kHz Bandwidth of Frequency Band Edge | ---       | See Note★ |
| §15.247(e)                   | Power Spectral Density                   | ---       | See Note★ |

Note: The changes will not affect test data, the data are referred to original report CR231168756-00A★, CR231168756-00C★ which provided by applicant.

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

### Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] [\sqrt{f(\text{GHz})}]$   
 $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

### Measurement Result

#### BLE mode:

| Mode | Frequency Range (MHz) | Max Tune-up Conducted Power |      | Calculated Distance (mm) | Calculated Value | Threshold (1-g SAR) | SAR Test Exclusion |
|------|-----------------------|-----------------------------|------|--------------------------|------------------|---------------------|--------------------|
|      |                       | (dBm)                       | (mW) |                          |                  |                     |                    |
| BLE  | 2402-2480             | -2.0                        | 0.63 | 5.0                      | 0.2              | 3.0                 | Yes                |

**Result: So the standalone SAR evaluation is not necessary.**

For **Wi-Fi mode**, please refer to the SAR report: RKSA240620011-20B.

## 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                 | 2024-04-23       | 2025-04-22           |
| Sunol Sciences                             | Broadband Antenna   | JB3          | A090314-1              | 2023-11-11       | 2024-11-10           |
| Narda                                      | 6dB Attenuator      | 773-6        | 10690812-2-1           | 2023-11-11       | 2024-11-10           |
| BACL                                       | Active Loop Antenna | 1313-1A      | 4041511                | 2024-11-22       | 2027-11-21           |
| Sonoma Instrument                          | Pre-amplifier       | 310N         | 171205                 | 2024-04-23       | 2025-04-22           |
| Rohde & Schwarz                            | Auto Test Software  | EMC32        | 100361                 | N/A              | N/A                  |
| MICRO-COAX                                 | Coaxial Cable       | Cable-8      | 008                    | 2024-04-25       | 2025-04-24           |
| MICRO-COAX                                 | Coaxial Cable       | Cable-9      | 009                    | 2024-04-23       | 2025-04-22           |
| MICRO-COAX                                 | Coaxial Cable       | Cable-10     | 010                    | 2024-04-23       | 2025-04-22           |
| <b>Radiated Emission Test (Chamber #2)</b> |                     |              |                        |                  |                      |
| Rohde & Schwarz                            | EMI Test Receiver   | ESU40        | 100207/040             | 2024-04-25       | 2025-04-24           |
| 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                    | 2024-04-25       | 2025-04-24           |
| SELECTOR                                   | Amplifier           | EM18G40G     | 060726                 | 2024-04-25       | 2025-04-24           |
| MICRO-TRONICS                              | Band Reject Filter  | BRM50702     | G024                   | 2024-08-05       | 2025-08-04           |
| Narda                                      | Attenuator          | 10dB         | 010                    | 2024-04-23       | 2025-04-22           |
| Rohde & Schwarz                            | Auto test Software  | EMC32        | 100361                 | N/A              | N/A                  |
| MICRO-COAX                                 | Coaxial Cable       | Cable-6      | 006                    | 2024-04-25       | 2025-04-24           |
| MICRO-COAX                                 | Coaxial Cable       | Cable-11     | 011                    | 2024-04-25       | 2025-04-24           |
| MICRO-COAX                                 | Coaxial Cable       | Cable-12     | 012                    | 2024-04-25       | 2025-04-24           |
| MICRO-COAX                                 | Coaxial Cable       | Cable-13     | 013                    | 2024-04-25       | 2025-04-24           |
| <b>RF Conducted Test</b>                   |                     |              |                        |                  |                      |
| Anritsu                                    | Power Sensor        | MA24418A     | 12621                  | 2024-04-23       | 2025-04-22           |
| Unknown                                    | RF Cable            | RF Cable C01 | C01                    | Each Time        | N/A                  |
| <b>Conducted Emission Test</b>             |                     |              |                        |                  |                      |
| Rohde & Schwarz                            | EMI Test Receiver   | ESR          | 1316.3003K03-101746-zn | 2024-04-23       | 2025-04-22           |
| Rohde & Schwarz                            | LISN                | ENV216       | 101115                 | 2024-04-23       | 2025-04-22           |
| Audix                                      | Test Software       | e3           | V9                     | N/A              | N/A                  |
| Rohde & Schwarz                            | Pulse limiter       | ESH3-Z2      | 100552                 | 2024-04-24       | 2025-04-23           |
| MICRO-COAX                                 | Coaxial Cable       | Cable-15     | 015                    | 2024-04-23       | 2025-04-22           |

**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).

## 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 Compliant 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 15.247 (b), 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

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

| Function   | Antenna Type | Antenna Gain (dBi) |
|------------|--------------|--------------------|
| 2.4G Wi-Fi | IFA          | 1.89               |
| BLE        | IFA          | 1.89               |

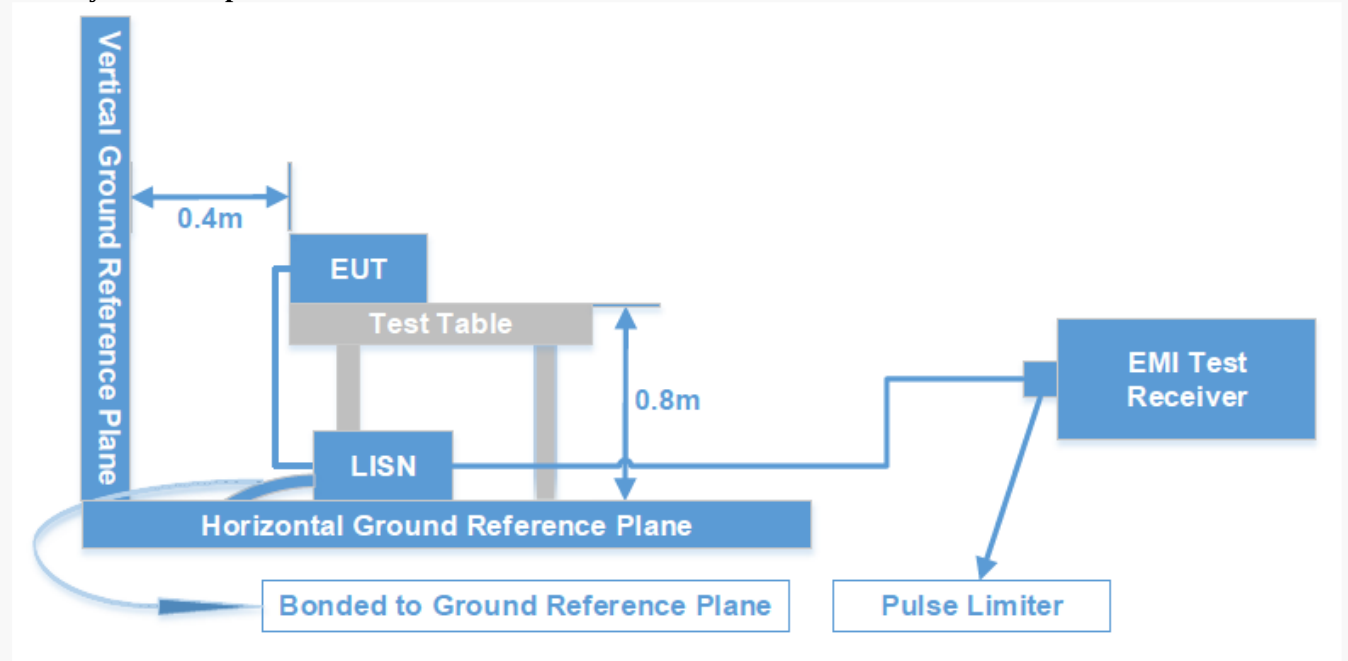
**Result:** Compliant.

## FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207(a)

### Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

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**

ANSI C63.10-2013 clause 6.2

During the conducted emission test, the EUT was connected to the outlet of 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:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

Level (dBμV) = Read level (dBμV) + Factor (dB)

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:

Over Limit (dB) = Level (dBμV) - Limit (dBμV)

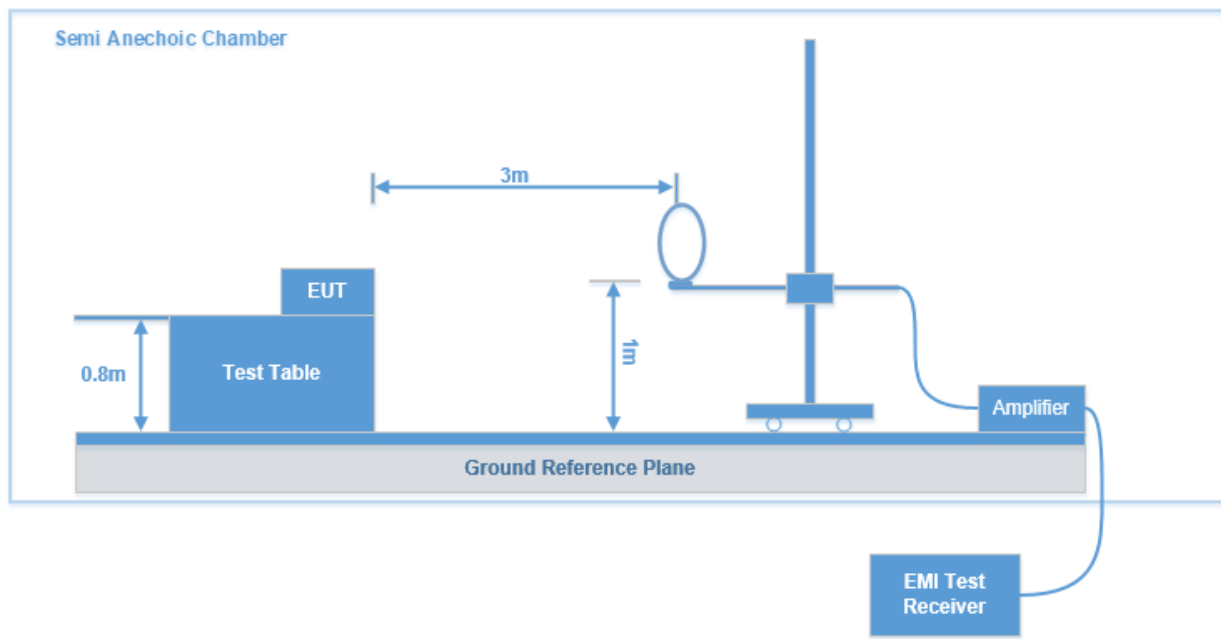
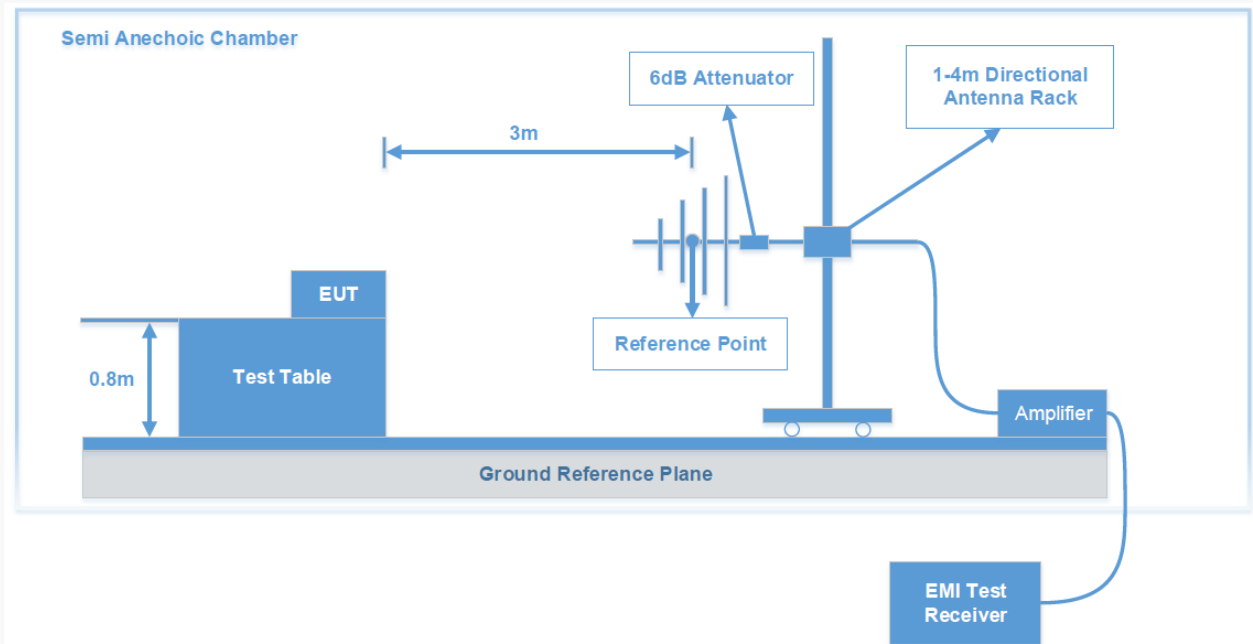
**Test Results Summary**

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

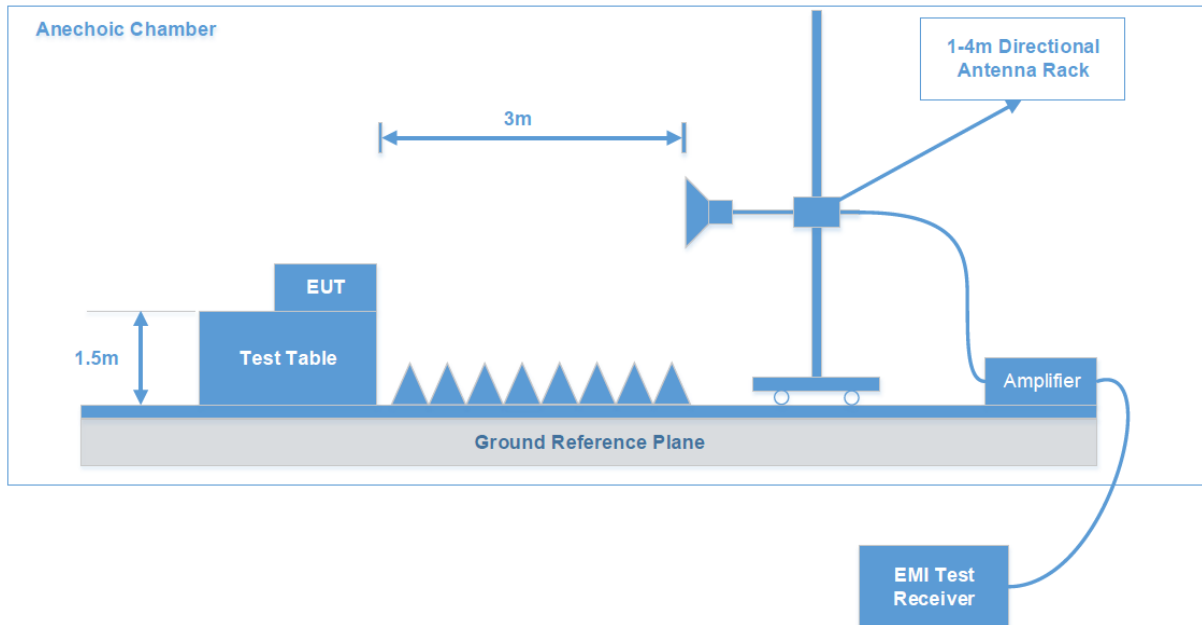
**Test Data: See Appendix**

**FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS****Applicable Standard**

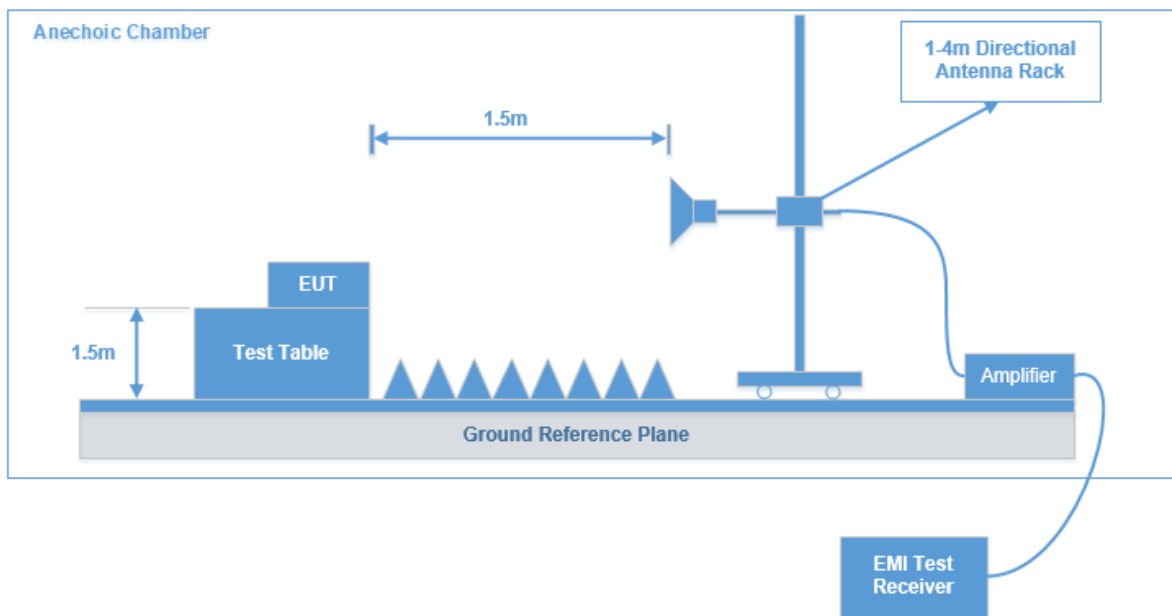
FCC §15.247 (d); §15.209; §15.205;

**Test System Setup****9 kHz-30 MHz:****30 MHz-1 GHz:**

**1GHz-18GHz:**



**18 GHz-25 GHz:**



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

### EMI Test Receiver 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     |

### Test Procedure

According to ANSI C63.10-2013 clause 6.5, 6.6 and 6.7.

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 10 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:

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

Corrected factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - 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:

Margin (dB) = Limit (dB $\mu$ V/m) – Corrected Amplitude (dB $\mu$ 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 Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

**Test Data: See Appendix**

## **FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER**

---

### **Applicable Standard**

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, Compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### **Test Procedure**

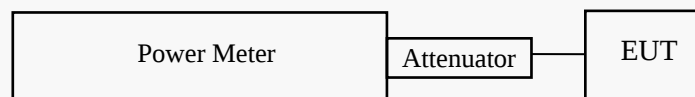
According to ANSI C63.10-2013 sub-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

According to ANSI C63.10-2013 Section 11.9.2.3.2

Method AVGPM-G is a measurement using a gated RF average power meter.

Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.



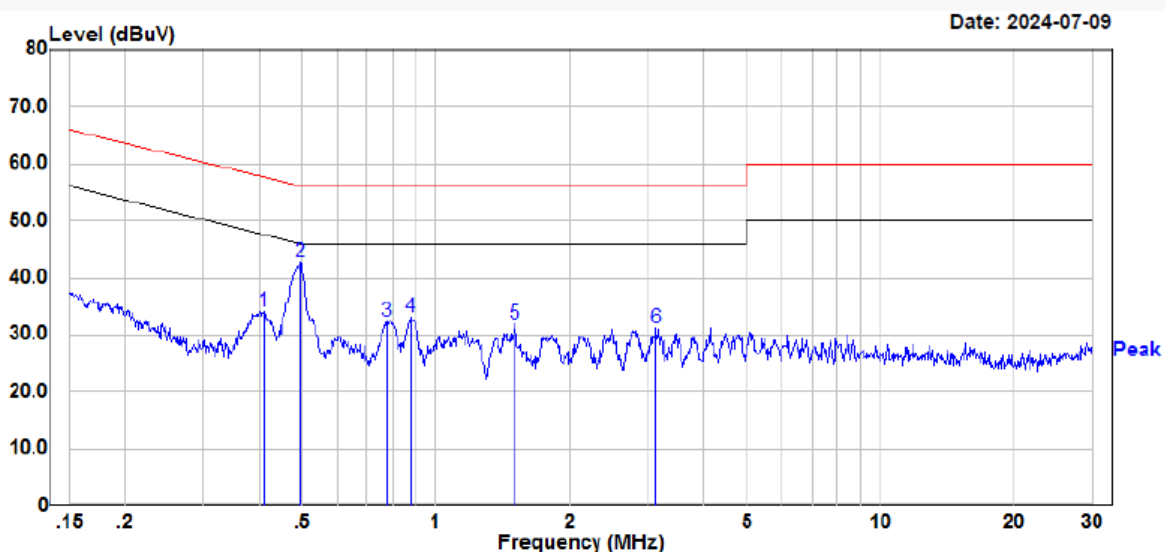
**Test Data: See Appendix**

APPENDIX - TEST DATA

Environmental Conditions & Test Information

| Test Item:         | AC LINE<br>CONDUCTED<br>EMISSIONS | SPURIOUS EMISSIONS |              |                |
|--------------------|-----------------------------------|--------------------|--------------|----------------|
|                    |                                   | 9 kHz-30 MHz       | 30 MHz-1 GHz | 1 GHz - 18 GHz |
| Test Date:         | 2024-07-09                        | 2024-12-19         | 2024-10-25   | 2025-01-07     |
| Temperature:       | 28.1 °C                           | 22.7 °C            | 20.2 °C      | 22.3 °C        |
| Relative Humidity: | 48 %                              | 54 %               | 58 %         | 47 %           |
| ATM Pressure:      | 100.4 kPa                         | 102.8 kPa          | 102.6 kPa    | 102.6 kPa      |
| Test Result:       | Pass                              | Pass               | Pass         | Pass           |
| Test Engineer:     | Leah Li                           | Jerry Yan          | Leah Li      | Destine Hu     |

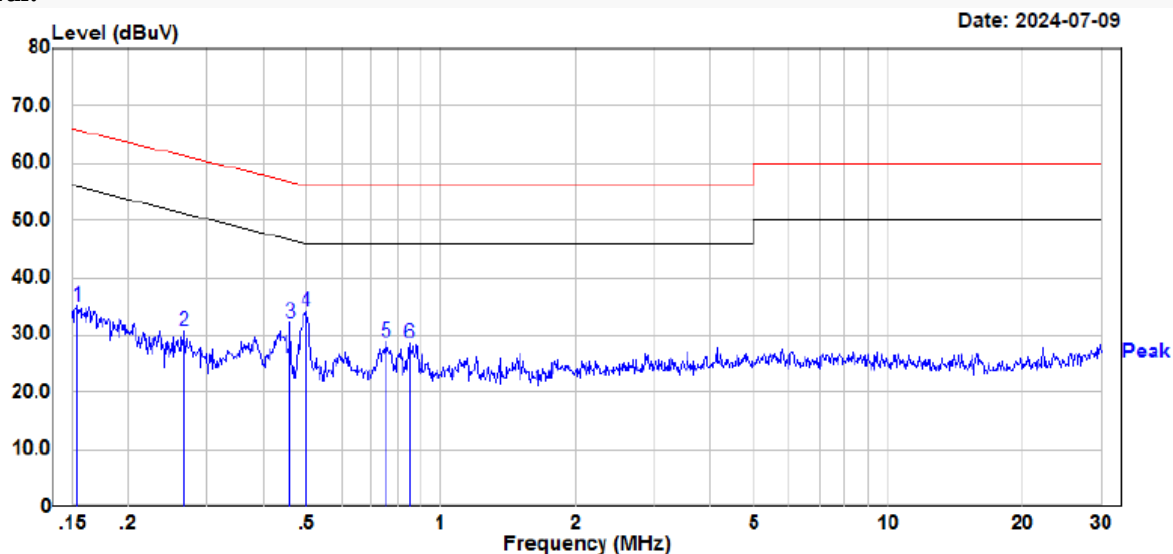
| Test Item:         | SPURIOUS EMISSIONS | SPOT CHECK WITH MAXIMUM<br>CONDUCTED OUTPUT POWER |
|--------------------|--------------------|---------------------------------------------------|
|                    | 18 GHz - 25 GHz    |                                                   |
| Test Date:         | 2025-01-16         | 2024-10-30                                        |
| Temperature:       | 22.5°C             | 20.3 °C                                           |
| Relative Humidity: | 46 %               | 52 %                                              |
| ATM Pressure:      | 102.5 kPa          | 101.4 kPa                                         |
| Test Result:       | Pass               | Pass                                              |
| Test Engineer:     | Hugh Wu            | Destine Hu                                        |

**AC LINE CONDUCTED EMISSIONS****For Wi-Fi Mode:***EUT operation mode: Transmitting in maximum output power mode 802.11g mode low channel***Line:**

Site : CE  
Condition : limit\FCC PART 15.207  
Project No. : RKSA240620011  
Model : P14  
Phase : L  
Voltage : 120V/60Hz  
Mode : 2.4G WIFI  
Test Equipment : ENV216,ESR  
Temperature : 28.1℃  
Humidity : 48%  
Atmospheric pressure: 100.4kPa  
Test Engineer : Leah Li

|   | Freq  | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|---|-------|------------|--------|-------|------------|------------|--------|
|   | MHz   | dBuV       | dB     | dBuV  | dBuV       | dB         |        |
| 1 | 0.408 | 13.85      | 20.21  | 34.06 | 57.68      | -23.62     | Peak   |
| 2 | 0.496 | 22.71      | 20.14  | 42.85 | 56.06      | -13.21     | Peak   |
| 3 | 0.777 | 12.37      | 19.97  | 32.34 | 56.00      | -23.66     | Peak   |
| 4 | 0.876 | 13.20      | 19.85  | 33.05 | 56.00      | -22.95     | Peak   |
| 5 | 1.500 | 11.91      | 19.97  | 31.88 | 56.00      | -24.12     | Peak   |
| 6 | 3.122 | 11.04      | 20.23  | 31.27 | 56.00      | -24.73     | Peak   |

## Neutral:

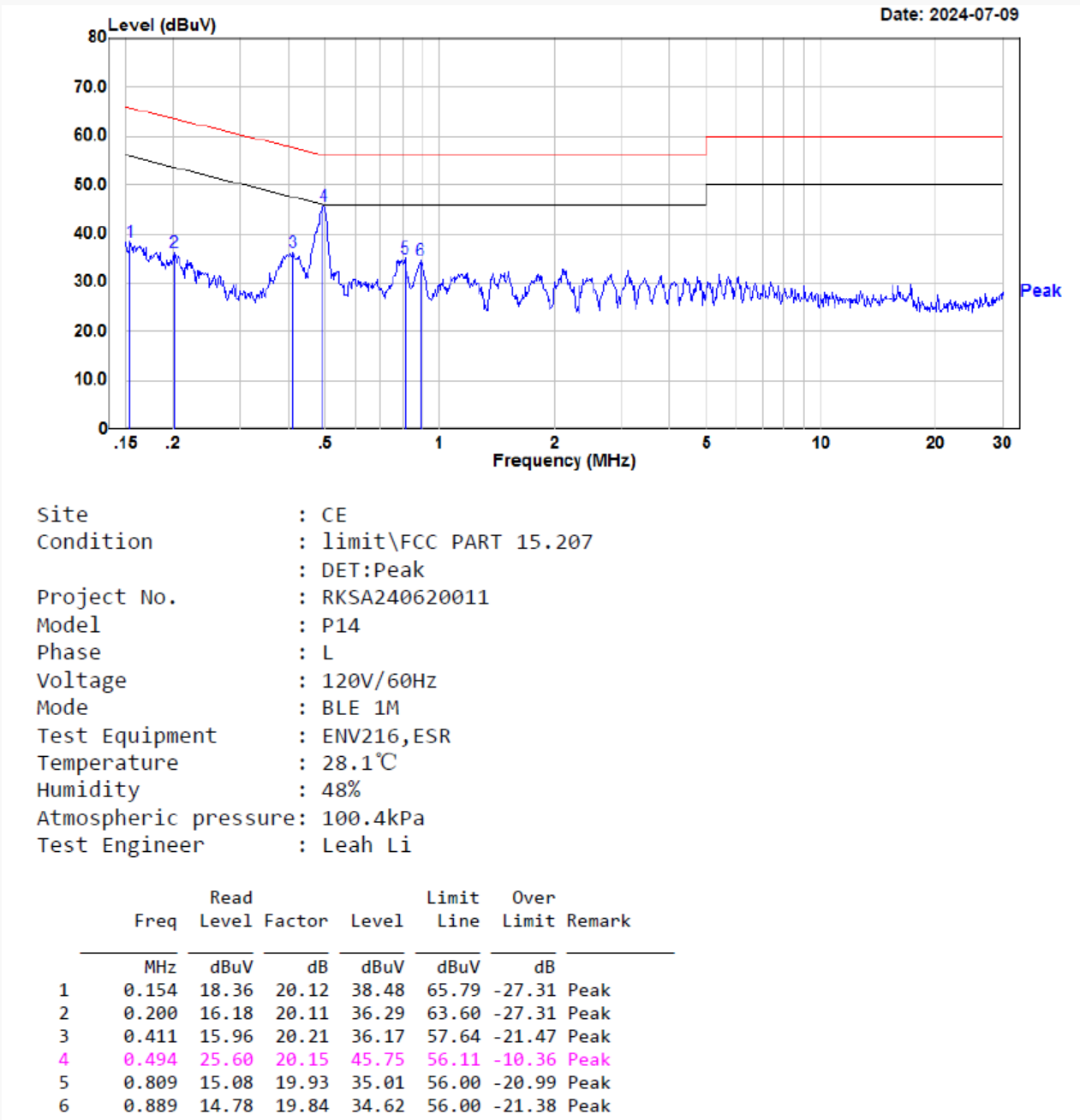


Site : CE  
Condition : limit\FCC PART 15.207  
Project No. : RKSA240620011  
Model : P14  
Phase : N  
Voltage : 120V/60Hz  
Mode : 2.4G WIFI  
Test Equipment : ENV216,ESR  
Temperature : 28.1°C  
Humidity : 48%  
Atmospheric pressure: 100.4kPa  
Test Engineer : Leah Li

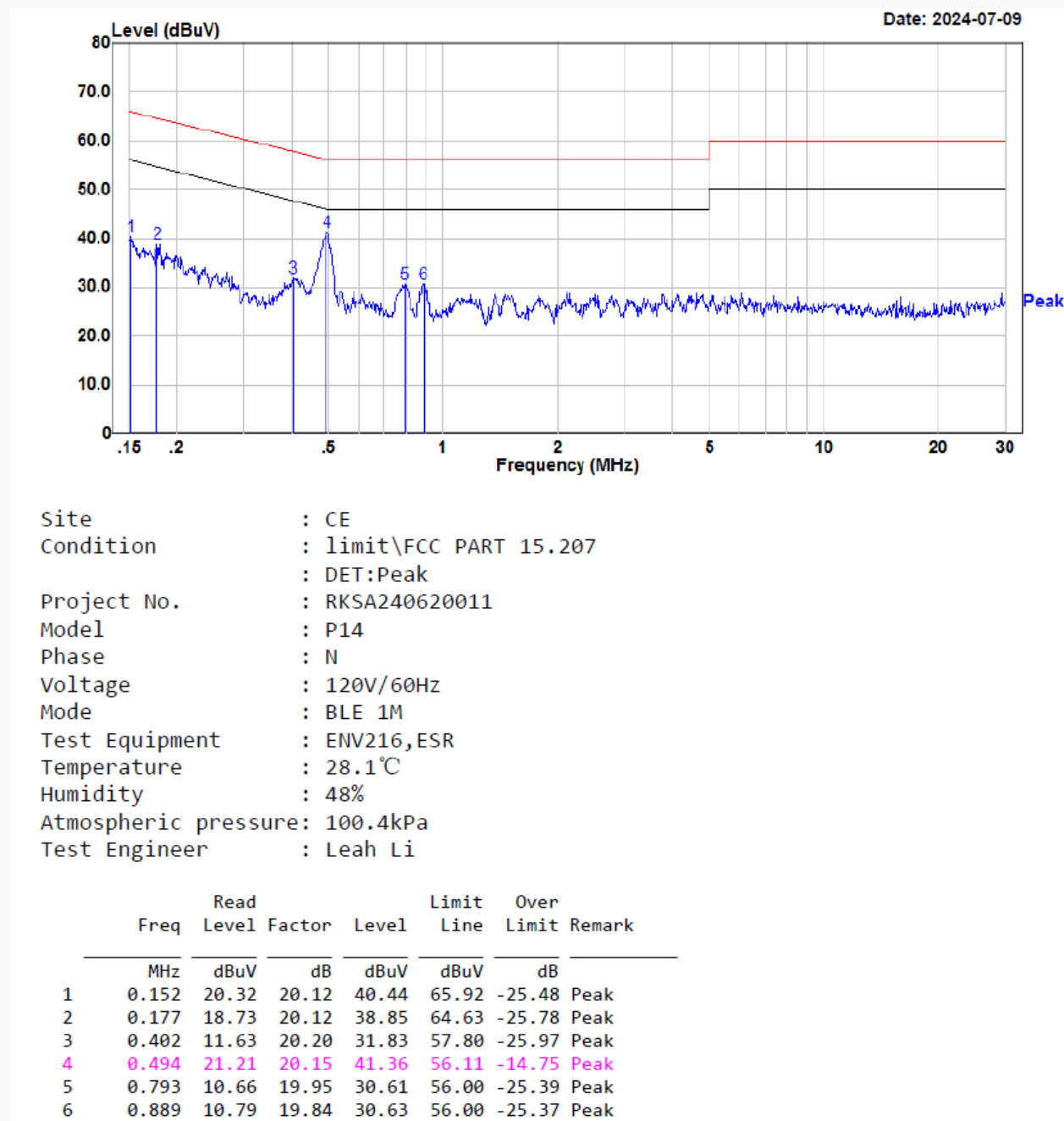
|   |       | Read  |        |       | Limit | Over   |        |
|---|-------|-------|--------|-------|-------|--------|--------|
|   | Freq  | Level | Factor | Level | Line  | Limit  | Remark |
|   | MHz   | dBuV  | dB     | dBuV  | dBuV  | dB     |        |
| 1 | 0.154 | 14.85 | 20.12  | 34.97 | 65.79 | -30.82 | Peak   |
| 2 | 0.266 | 10.48 | 20.15  | 30.63 | 61.24 | -30.61 | Peak   |
| 3 | 0.460 | 11.96 | 20.22  | 32.18 | 56.69 | -24.51 | Peak   |
| 4 | 0.499 | 14.01 | 20.13  | 34.14 | 56.02 | -21.88 | Peak   |
| 5 | 0.754 | 8.68  | 20.00  | 28.68 | 56.00 | -27.32 | Peak   |
| 6 | 0.850 | 8.56  | 19.88  | 28.44 | 56.00 | -27.56 | Peak   |

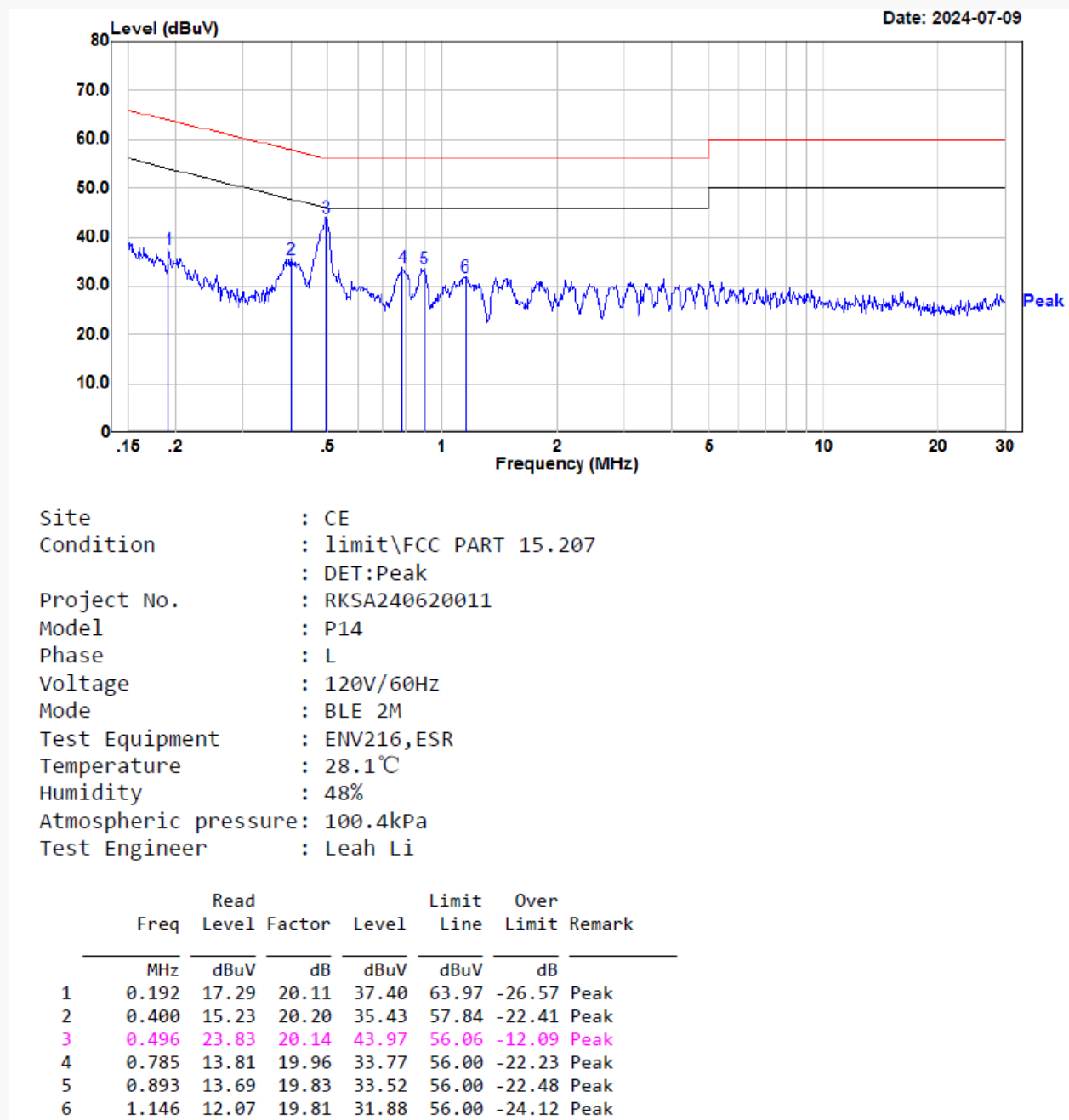
**For BLE (1 Mbps) Mode:**

*EUT operation mode: Transmitting in maximum output power mode high channel*  
**Line**

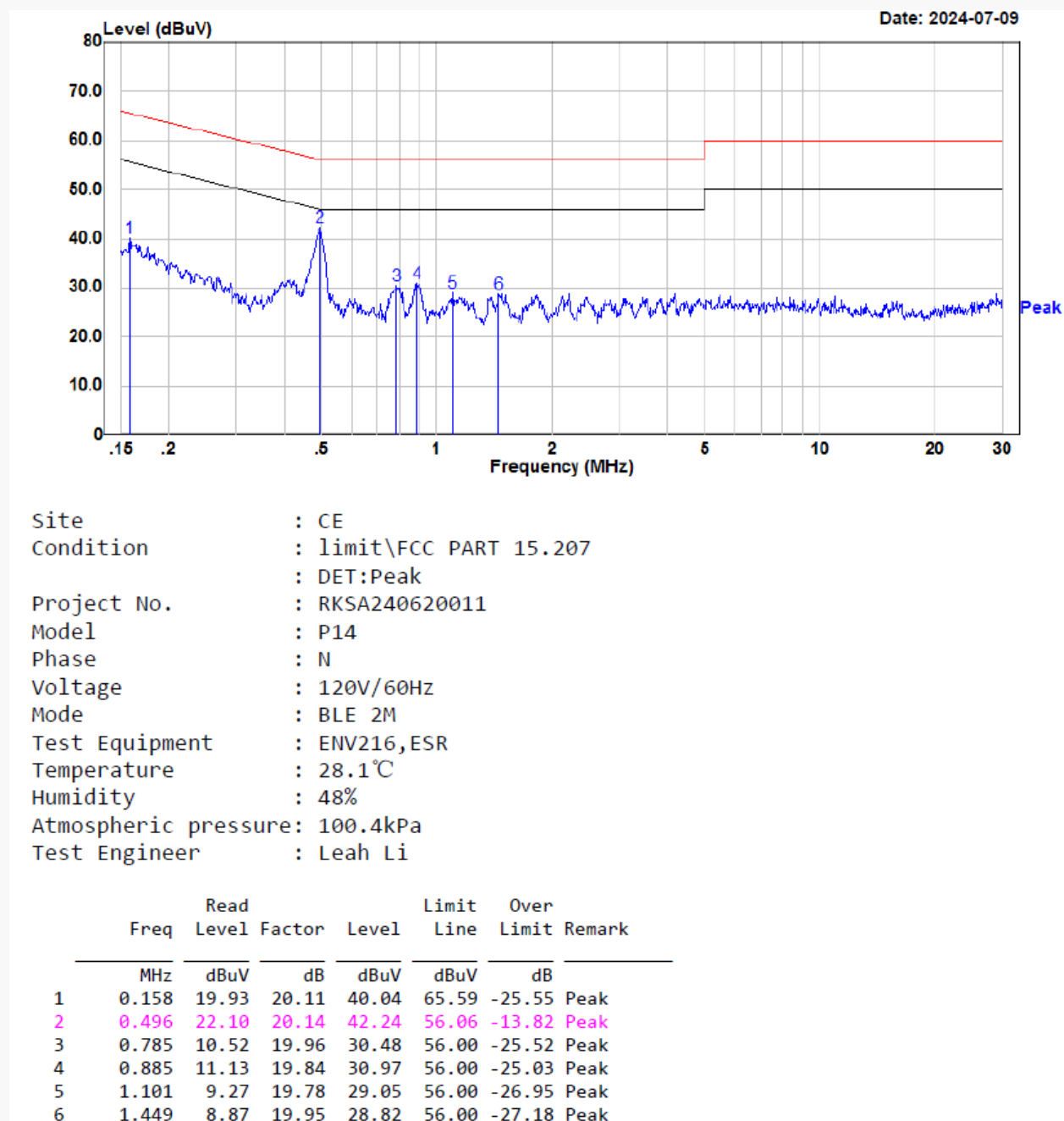


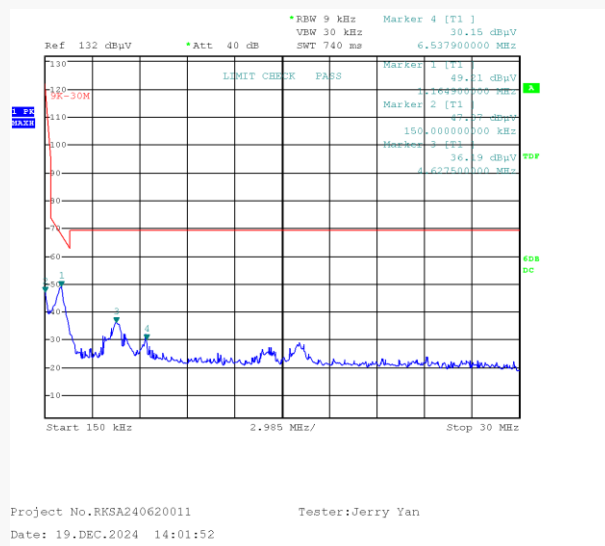
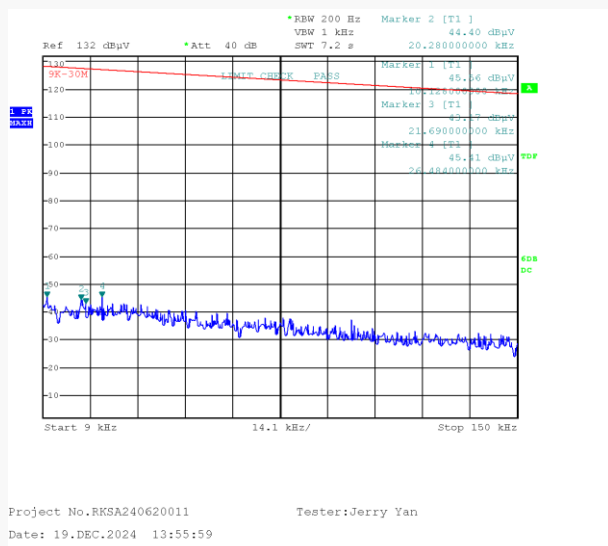
## Neutral



**For BLE (2 Mbps) Mode:***EUT operation mode: Transmitting in maximum output power mode high channel***Line**

## Neutral



**SPURIOUS EMISSIONS***EUT operation mode: Transmitting**After pre-scan in the X, Y and Z axes of orientation, the worst case X axes is below:***For Wi-Fi Mode:****9 kHz-30 MHz: Transmitting in maximum output power mode 802.11g mode low channel****Parallel(worst case)****9kHz-150kHz****150kHz-30MHz****9kHz-150kHz**

| Frequency (MHz) | Corrected Amplitude (dBμV/m) @3m | Detector PK/QP/Ave. | Corrected Factor (dB/m) | Limit (dBμV/m) @3m | Margin (dB) |
|-----------------|----------------------------------|---------------------|-------------------------|--------------------|-------------|
| 0.010128        | 45.56                            | PK                  | -0.51                   | 127.49             | 81.93       |
| 0.020280        | 44.40                            | PK                  | -0.56                   | 121.46             | 77.06       |
| 0.021690        | 43.17                            | PK                  | -0.57                   | 120.88             | 77.71       |
| 0.026484        | 45.41                            | PK                  | -0.59                   | 119.15             | 73.74       |

**150kHz-30MHz**

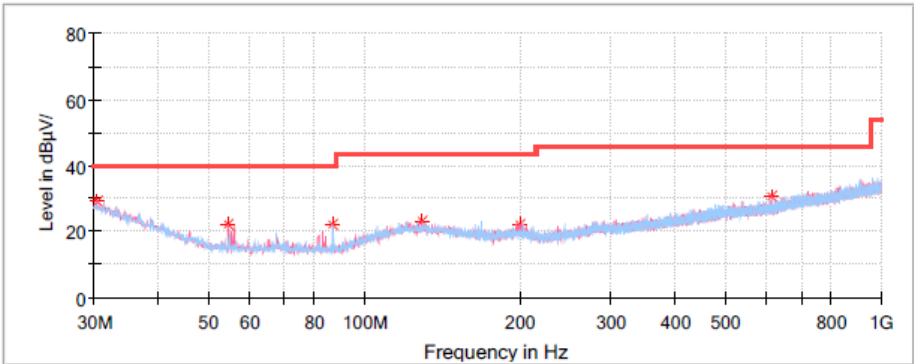
| Frequency (MHz) | Corrected Amplitude (dBμV/m) @3m | Detector PK/QP/Ave. | Corrected Factor (dB/m) | Limit (dBμV/m) @3m | Margin (dB) |
|-----------------|----------------------------------|---------------------|-------------------------|--------------------|-------------|
| 0.15000         | 47.37                            | PK                  | -11.34                  | 104.08             | 56.71       |
| 1.16490         | 49.21                            | PK                  | -28.15                  | 66.28              | 17.07       |
| 4.62750         | 36.19                            | PK                  | -32.00                  | 69.54              | 33.35       |
| 6.53790         | 30.15                            | PK                  | -32.29                  | 69.54              | 39.39       |

**Transmitting in maximum output power mode 802.11g mode low channel  
30MHz-1GHz:**

**Low Channel: 2412 MHz**

**Common Information**

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| Project No:          | RKSA240620011                                       |
| EUT Model:           | P14                                                 |
| Test Mode:           | Transmitting in 802.11g mode low channel            |
| Standard:            | FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247 |
| Test Equipment:      | ESCI, JB3, 310N                                     |
| Temperature:         | 20.2℃                                               |
| Humidity:            | 58%                                                 |
| Barometric Pressure: | 102.6kPa                                            |
| Test Engineer:       | Leah Li                                             |
| Test Date:           | 2024/10/25                                          |



**Critical Freqs**

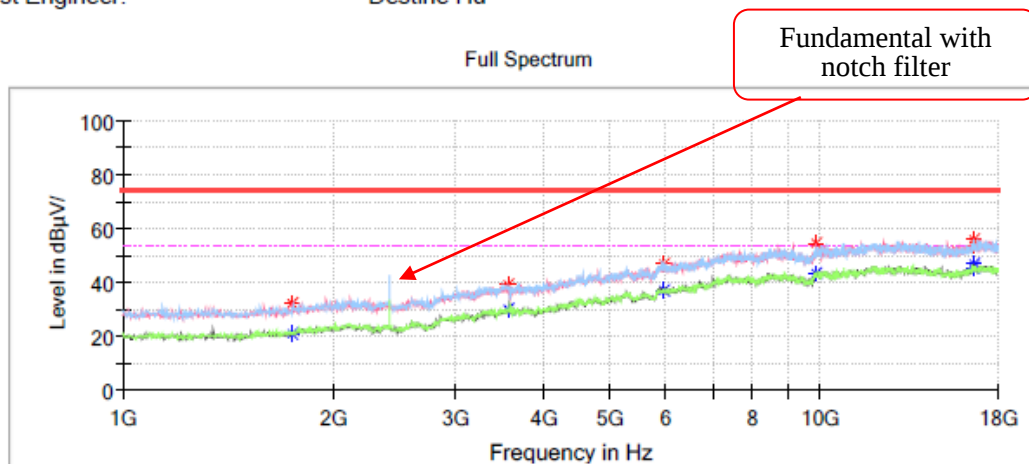
| Frequency (MHz) | MaxPeak (dBμ V/m) | Limit (dBμ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|-------------------|-----------------|-------------|-----|--------------|
| 30.363750       | 29.35             | 40.00           | 10.65       | V   | -5.0         |
| 54.735000       | 22.35             | 40.00           | 17.65       | V   | -17.1        |
| 87.108750       | 22.18             | 40.00           | 17.82       | H   | -17.0        |
| 129.182500      | 23.32             | 43.50           | 20.18       | V   | -11.1        |
| 200.356250      | 22.33             | 43.50           | 21.17       | V   | -12.2        |
| 615.152500      | 30.64             | 46.00           | 15.36       | V   | -3.9         |

1GHz -18GHz:

**802.11b mode**  
**Low Channel: 2412 MHz**

### Common Information

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Project No.:      | RKSA240620011                                   |
| Test Mode:        | Transmitting in 802.11b mode 2412 channel       |
| Standard:         | FCC Part 15.205&FCC Part 15.209&FCC Part 15.247 |
| Receiver Setting: | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto          |
| Test Engineer:    | Destine Hu                                      |

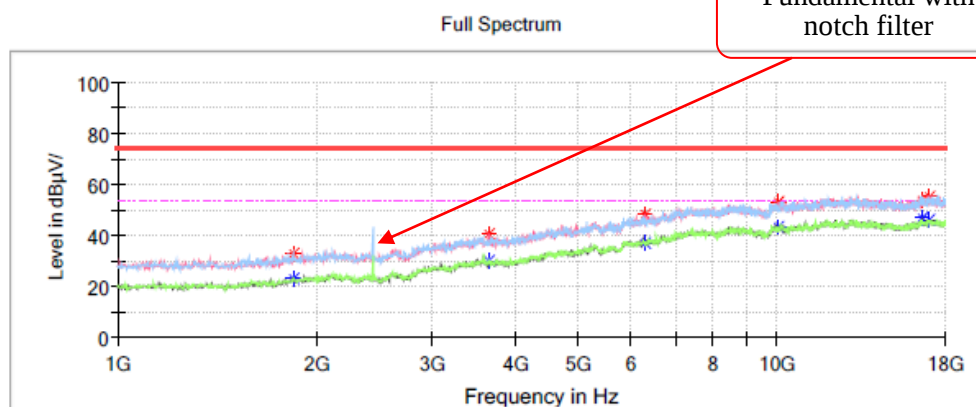


### Critical Freqs

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 1751.400000     | ---                | 21.23              | 54.00            | 32.77       | V   | -13.2        |
| 1751.400000     | 31.93              | ---                | 74.00            | 42.07       | V   | -13.2        |
| 3573.800000     | ---                | 30.38              | 54.00            | 23.62       | H   | -6.3         |
| 3573.800000     | 39.44              | ---                | 74.00            | 34.56       | H   | -6.3         |
| 5984.400000     | ---                | 36.91              | 54.00            | 17.09       | H   | 0.0          |
| 5984.400000     | 47.18              | ---                | 74.00            | 26.82       | H   | 0.0          |
| 9843.400000     | ---                | 43.35              | 54.00            | 10.65       | H   | 6.6          |
| 9843.400000     | 54.33              | ---                | 74.00            | 19.67       | H   | 6.6          |
| 16612.800000    | 54.16              | ---                | 74.00            | 19.84       | V   | 11.1         |
| 16612.800000    | ---                | 46.59              | 54.00            | 7.41        | V   | 11.1         |
| 16623.000000    | 55.86              | ---                | 74.00            | 18.14       | V   | 11.1         |
| 16623.000000    | ---                | 45.41              | 54.00            | 8.59        | V   | 11.1         |

**Middle Channel: 2437 MHz****Common Information**

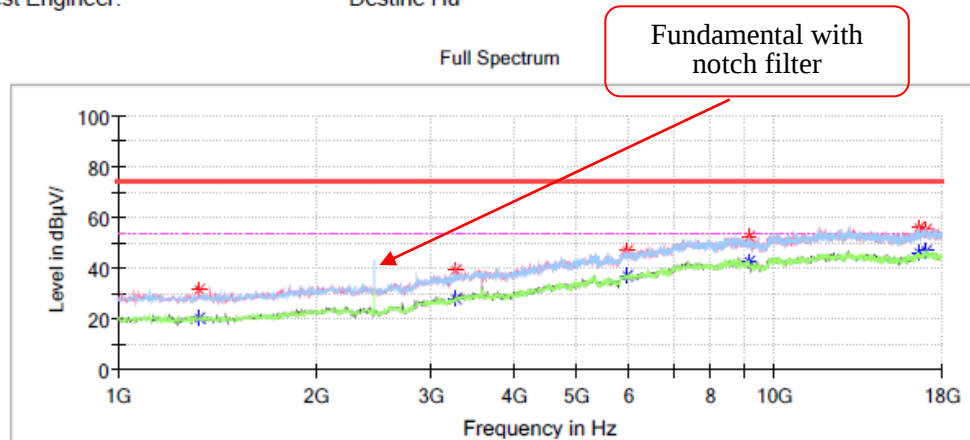
Project No.: RKSA240620011  
 Test Mode: Transmitting in 802.11b mode 2437 channel  
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Test Engineer: Destine Hu

**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) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|--------------|
| 1843.200000     | 32.99                  | ---                    | 74.00                | 41.01       | H   | -12.7        |
| 1843.200000     | ---                    | 23.11                  | 54.00                | 30.89       | H   | -12.7        |
| 3645.200000     | 40.39                  | ---                    | 74.00                | 33.61       | V   | -6.2         |
| 3645.200000     | ---                    | 29.99                  | 54.00                | 24.01       | V   | -6.2         |
| 6300.600000     | 48.58                  | ---                    | 74.00                | 25.42       | V   | 0.3          |
| 6300.600000     | ---                    | 37.37                  | 54.00                | 16.63       | V   | 0.3          |
| 10030.400000    | ---                    | 43.09                  | 54.00                | 10.91       | H   | 7.2          |
| 10030.400000    | 52.96                  | ---                    | 74.00                | 21.04       | H   | 7.2          |
| 16599.200000    | 53.81                  | ---                    | 74.00                | 20.19       | V   | 11.1         |
| 16599.200000    | ---                    | 46.54                  | 54.00                | 7.46        | V   | 11.1         |
| 16976.600000    | 55.38                  | ---                    | 74.00                | 18.62       | H   | 12.2         |
| 16976.600000    | ---                    | 46.12                  | 54.00                | 7.88        | H   | 12.2         |

**High Channel: 2462 MHz****Common Information**

Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11b mode 2462 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

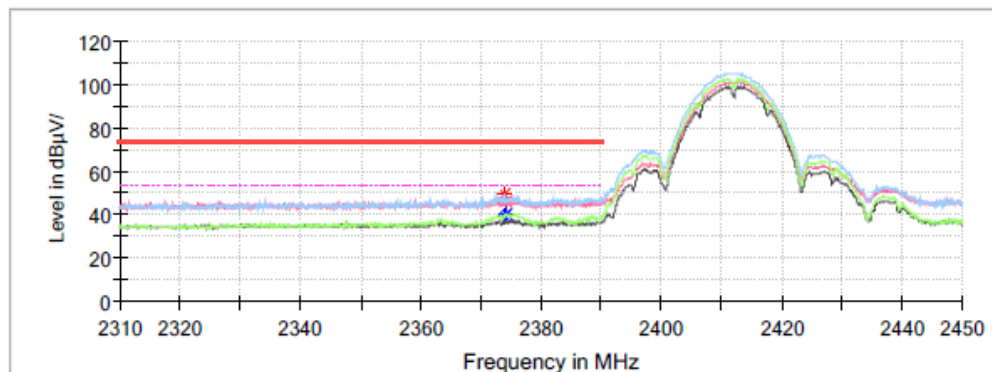
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|--------------|
| 1326.400000     | ---                    | 20.36                  | 54.00                | 33.64       | H   | -15.0        |
| 1326.400000     | 31.14                  | ---                    | 74.00                | 42.86       | H   | -15.0        |
| 3278.000000     | ---                    | 27.97                  | 54.00                | 26.03       | V   | -7.3         |
| 3278.000000     | 39.49                  | ---                    | 74.00                | 34.51       | V   | -7.3         |
| 5957.200000     | ---                    | 37.00                  | 54.00                | 17.00       | V   | 0.0          |
| 5957.200000     | 46.88                  | ---                    | 74.00                | 27.12       | V   | 0.0          |
| 9132.800000     | ---                    | 42.33                  | 54.00                | 11.67       | H   | 5.4          |
| 9132.800000     | 52.72                  | ---                    | 74.00                | 21.28       | H   | 5.4          |
| 16561.800000    | 56.11                  | ---                    | 74.00                | 17.89       | H   | 11.0         |
| 16561.800000    | ---                    | 45.81                  | 54.00                | 8.19        | H   | 11.0         |
| 17017.400000    | 55.16                  | ---                    | 74.00                | 18.84       | V   | 12.3         |
| 17017.400000    | ---                    | 46.82                  | 54.00                | 7.18        | V   | 12.3         |

**Band Edge:****Left Side****Common Information**

Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11b mode 2412 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

Full Spectrum

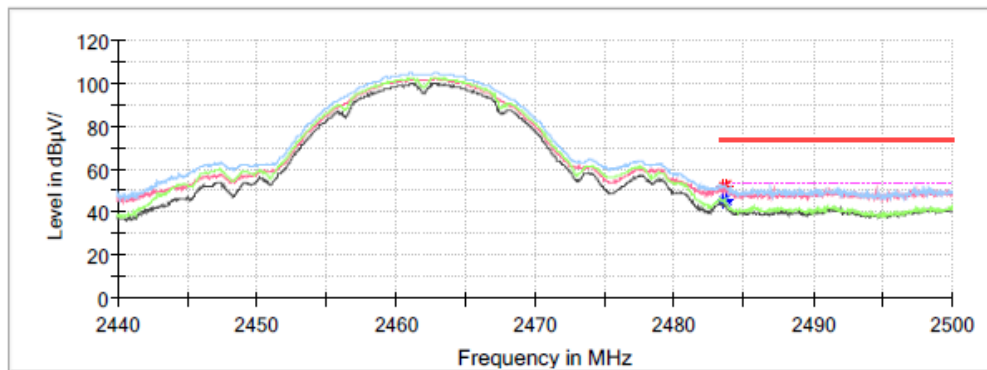
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2374.064000     | 49.22              | ---                | 74.00            | 24.78       | H   | -0.6         |
| 2374.064000     | ---                | 39.69              | 54.00            | 14.31       | H   | -0.6         |
| 2374.400000     | 46.23              | ---                | 74.00            | 27.77       | H   | -0.6         |
| 2374.400000     | ---                | 40.39              | 54.00            | 13.61       | H   | -0.6         |

**Right Side****Common Information**

Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11b mode 2462 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

Full Spectrum

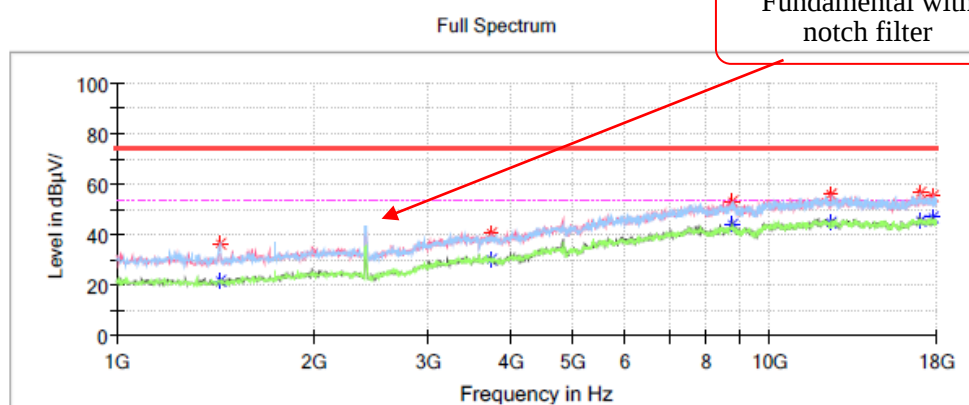
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2483.536000     | 52.28              | ---                | 74.00            | 21.72       | H   | -0.3         |
| 2483.536000     | ---                | 44.93              | 54.00            | 9.07        | H   | -0.3         |
| 2483.656000     | 51.92              | ---                | 74.00            | 22.08       | H   | -0.3         |
| 2483.656000     | ---                | 45.74              | 54.00            | 8.26        | H   | -0.3         |

**802.11g mode**  
**Low Channel: 2412 MHz**

**Common Information**

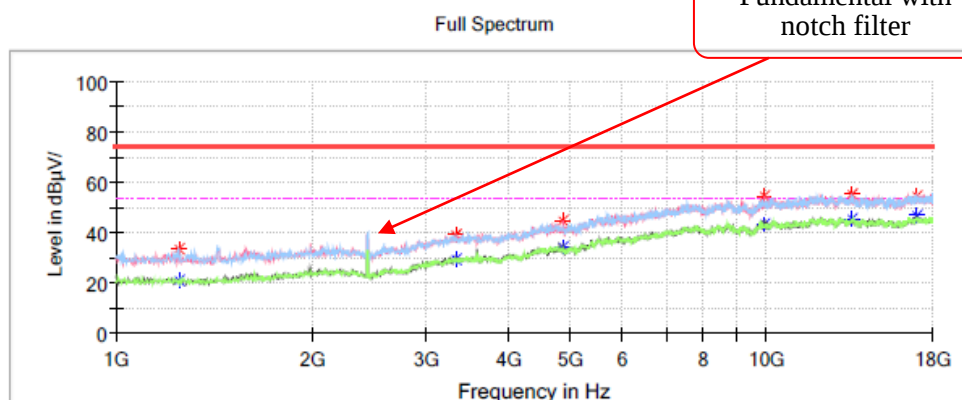
Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11g mode 2412 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

**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) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 1438.600000     | ---                | 21.94              | 54.00            | 32.06       | H   | -14.8        |
| 1438.600000     | 36.30              | ---                | 74.00            | 37.70       | H   | -14.8        |
| 3750.600000     | ---                | 30.09              | 54.00            | 23.91       | V   | -6.1         |
| 3750.600000     | 40.22              | ---                | 74.00            | 33.78       | V   | -6.1         |
| 8758.800000     | ---                | 44.05              | 54.00            | 9.95        | V   | 5.4          |
| 8758.800000     | 53.30              | ---                | 74.00            | 20.70       | V   | 5.4          |
| 12410.400000    | ---                | 44.42              | 54.00            | 9.58        | H   | 9.5          |
| 12410.400000    | 55.81              | ---                | 74.00            | 18.19       | H   | 9.5          |
| 17027.600000    | 56.46              | ---                | 74.00            | 17.54       | H   | 12.2         |
| 17027.600000    | ---                | 45.53              | 54.00            | 8.47        | H   | 12.2         |
| 17809.600000    | 54.94              | ---                | 74.00            | 19.06       | V   | 11.8         |
| 17809.600000    | ---                | 46.79              | 54.00            | 7.21        | V   | 11.8         |

**Middle Channel: 2437 MHz****Common Information**

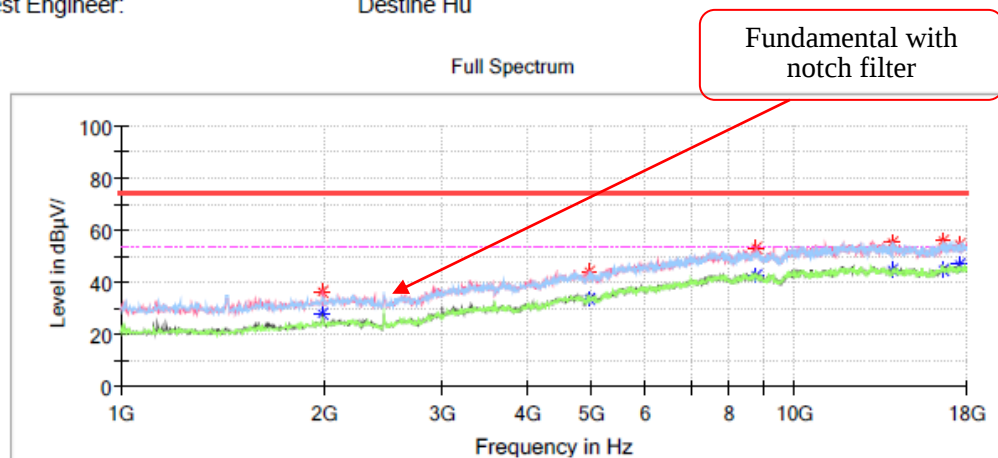
|                   |                                                 |
|-------------------|-------------------------------------------------|
| Project No.:      | RKSA240620011                                   |
| Test Mode:        | Transmitting in 802.11g mode 2437 channel       |
| Standard:         | FCC Part 15.205&FCC Part 15.209&FCC Part 15.247 |
| Receiver Setting: | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto          |
| Test Engineer:    | Destine Hu                                      |

**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) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|--------------|
| 1248.200000     | ---                    | 20.92                  | 54.00                | 33.08       | H   | -15.1        |
| 1248.200000     | 33.87                  | ---                    | 74.00                | 40.13       | H   | -15.1        |
| 3329.000000     | ---                    | 29.38                  | 54.00                | 24.62       | H   | -7.1         |
| 3329.000000     | 38.87                  | ---                    | 74.00                | 35.13       | H   | -7.1         |
| 4876.000000     | ---                    | 34.47                  | 54.00                | 19.53       | V   | -2.9         |
| 4876.000000     | 44.97                  | ---                    | 74.00                | 29.03       | V   | -2.9         |
| 9918.200000     | ---                    | 43.39                  | 54.00                | 10.61       | H   | 6.9          |
| 9918.200000     | 54.39                  | ---                    | 74.00                | 19.61       | H   | 6.9          |
| 13508.600000    | 55.55                  | ---                    | 74.00                | 18.45       | H   | 9.6          |
| 13508.600000    | ---                    | 45.21                  | 54.00                | 8.79        | H   | 9.6          |
| 17037.800000    | 54.62                  | ---                    | 74.00                | 19.38       | V   | 12.2         |
| 17037.800000    | ---                    | 46.87                  | 54.00                | 7.13        | V   | 12.2         |

**High Channel: 2462 MHz****Common Information**

Project No.: RKSA240620011  
 Test Mode: Transmitting in 802.11g mode 2462 channel  
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Test Engineer: Destine Hu

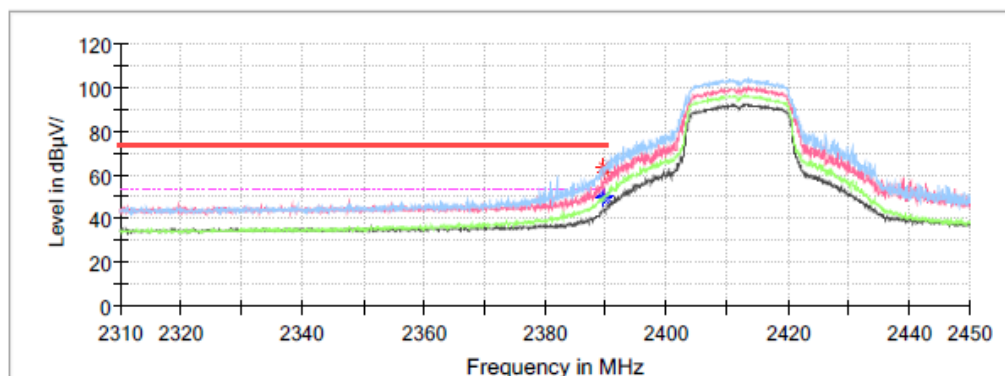
**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dB µ V/m) | Average (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 1996.200000     | ---                | 28.08              | 54.00            | 25.92       | V   | -11.8        |
| 1996.200000     | 36.17              | ---                | 74.00            | 37.83       | V   | -11.8        |
| 4940.600000     | ---                | 33.81              | 54.00            | 20.19       | V   | -2.7         |
| 4940.600000     | 43.80              | ---                | 74.00            | 30.20       | V   | -2.7         |
| 8741.800000     | ---                | 42.88              | 54.00            | 11.12       | H   | 5.4          |
| 8741.800000     | 53.04              | ---                | 74.00            | 20.96       | H   | 5.4          |
| 13998.200000    | ---                | 44.48              | 54.00            | 9.52        | H   | 9.8          |
| 13998.200000    | 55.25              | ---                | 74.00            | 18.75       | H   | 9.8          |
| 16612.800000    | 55.83              | ---                | 74.00            | 18.17       | V   | 11.1         |
| 16612.800000    | ---                | 44.60              | 54.00            | 9.40        | V   | 11.1         |
| 17602.200000    | 54.51              | ---                | 74.00            | 19.49       | H   | 11.6         |
| 17602.200000    | ---                | 47.13              | 54.00            | 6.87        | H   | 11.6         |

**Band Edge:****Left Side****Common Information**

Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11g mode 2412 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

Full Spectrum

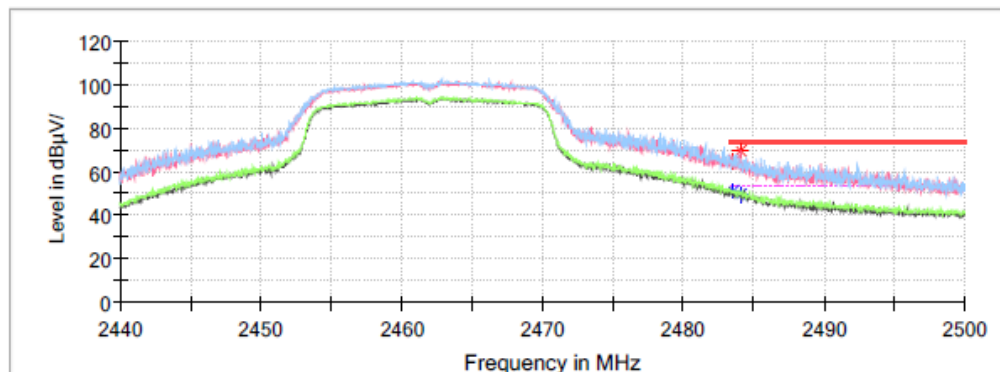
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2389.800000     | 63.65              | ---                | 74.00            | 10.35       | H   | -0.6         |
| 2389.800000     | ---                | 49.65              | 54.00            | 4.35        | H   | -0.6         |
| 2389.968000     | 61.05              | ---                | 74.00            | 12.95       | H   | -0.6         |
| 2389.968000     | ---                | 50.70              | 54.00            | 3.30        | H   | -0.6         |

**Right Side****Common Information**

Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11g mode 2462 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

Full Spectrum

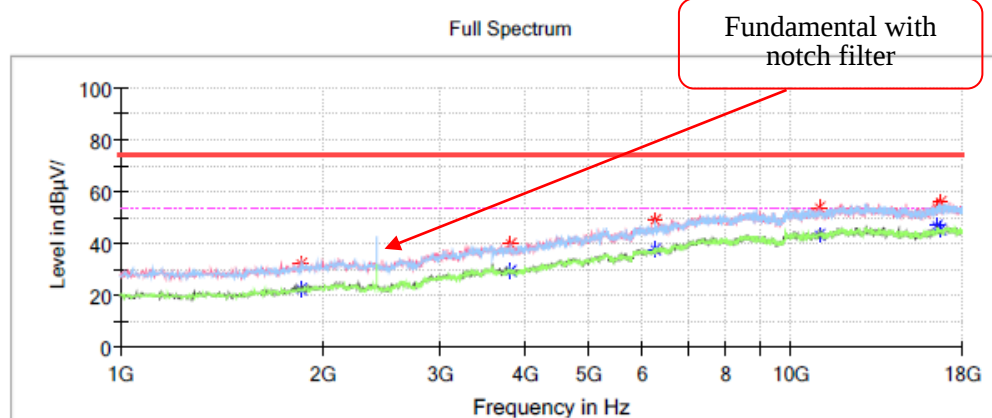
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2483.560000     | ---                | 51.59              | 54.00            | 2.41        | H   | -0.3         |
| 2483.560000     | 64.21              | ---                | 74.00            | 9.79        | H   | -0.3         |
| 2484.088000     | ---                | 49.31              | 54.00            | 4.69        | V   | -0.3         |
| 2484.088000     | 69.77              | ---                | 74.00            | 4.23        | V   | -0.3         |

**802.11n20 mode**  
**Low Channel: 2412 MHz**

### Common Information

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Project No.:      | RKSA240620011                                   |
| Test Mode:        | Transmitting in 802.11n20 mode 2412 channel     |
| Standard:         | FCC Part 15.205&FCC Part 15.209&FCC Part 15.247 |
| Receiver Setting: | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto          |
| Test Engineer:    | Destine Hu                                      |

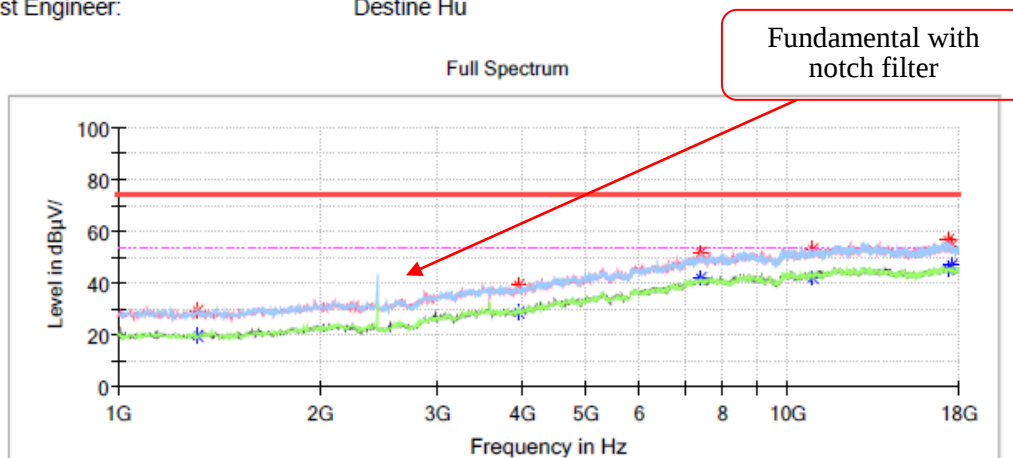


### Critical Freqs

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|--------------|
| 1860.200000     | ---                    | 22.57                  | 54.00                | 31.43       | V   | -12.6        |
| 1860.200000     | 32.51                  | ---                    | 74.00                | 41.49       | V   | -12.6        |
| 3815.200000     | ---                    | 29.34                  | 54.00                | 24.66       | V   | -6.1         |
| 3815.200000     | 39.68                  | ---                    | 74.00                | 34.32       | V   | -6.1         |
| 6266.600000     | ---                    | 37.69                  | 54.00                | 16.31       | V   | 0.3          |
| 6266.600000     | 48.63                  | ---                    | 74.00                | 25.37       | V   | 0.3          |
| 11040.200000    | ---                    | 43.65                  | 54.00                | 10.35       | H   | 7.4          |
| 11040.200000    | 54.13                  | ---                    | 74.00                | 19.87       | H   | 7.4          |
| 16541.400000    | 53.76                  | ---                    | 74.00                | 20.24       | H   | 10.9         |
| 16541.400000    | ---                    | 46.54                  | 54.00                | 7.46        | H   | 10.9         |
| 16663.800000    | ---                    | 45.11                  | 54.00                | 8.89        | V   | 11.3         |
| 16663.800000    | 55.95                  | ---                    | 74.00                | 18.05       | V   | 11.3         |

**Middle Channel: 2437 MHz****Common Information**

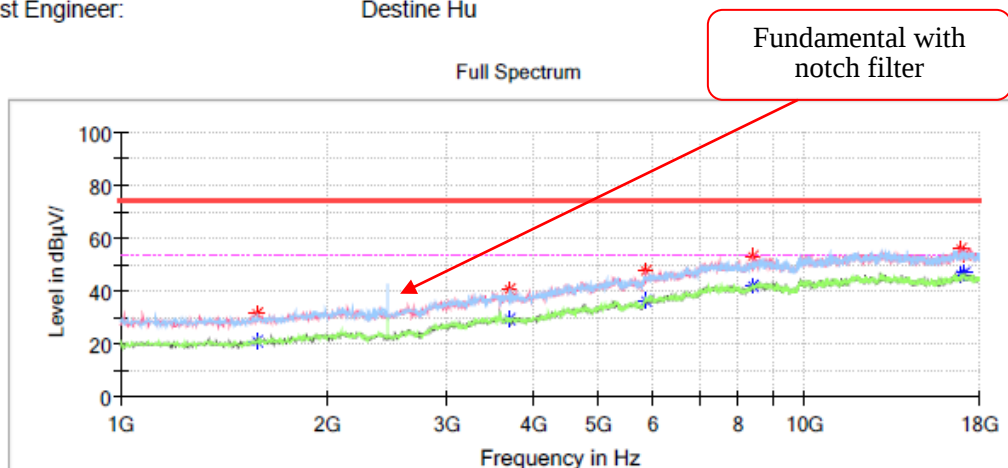
Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11n20 mode 2437 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

**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) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 1316.200000     | ---                | 19.63              | 54.00            | 34.37       | V   | -15.0        |
| 1316.200000     | 29.61              | ---                | 74.00            | 44.39       | V   | -15.0        |
| 3958.000000     | ---                | 28.86              | 54.00            | 25.14       | H   | -5.9         |
| 3958.000000     | 39.18              | ---                | 74.00            | 34.82       | H   | -5.9         |
| 7429.400000     | ---                | 41.85              | 54.00            | 12.15       | H   | 3.7          |
| 7429.400000     | 51.86              | ---                | 74.00            | 22.14       | H   | 3.7          |
| 10914.400000    | ---                | 42.28              | 54.00            | 11.72       | V   | 7.3          |
| 10914.400000    | 53.29              | ---                | 74.00            | 20.71       | V   | 7.3          |
| 17296.200000    | 56.33              | ---                | 74.00            | 17.67       | H   | 11.8         |
| 17296.200000    | ---                | 45.60              | 54.00            | 8.40        | H   | 11.8         |
| 17609.000000    | 54.20              | ---                | 74.00            | 19.80       | V   | 11.6         |
| 17609.000000    | ---                | 46.94              | 54.00            | 7.06        | V   | 11.6         |

**High Channel: 2462 MHz****Common Information**

Project No.: RKSA240620011  
 Test Mode: Transmitting in 802.11n20 mode 2462 channel  
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Test Engineer: Destine Hu

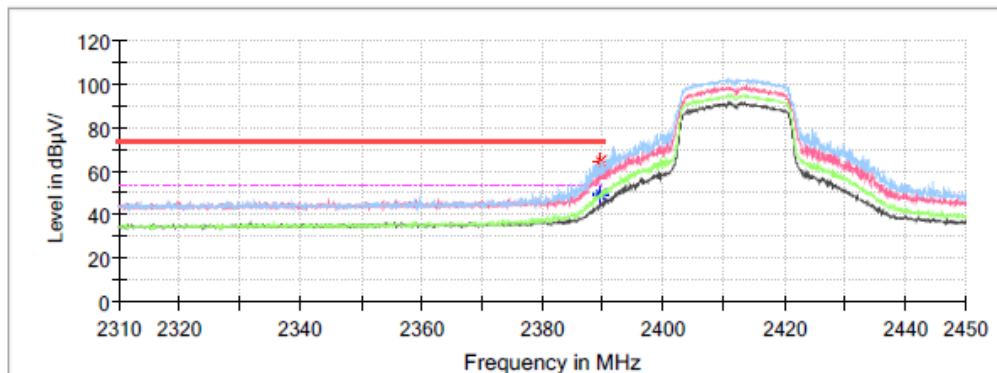
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|--------------|
| 1581.400000     | ---                    | 21.32                  | 54.00                | 32.68       | H   | -14.2        |
| 1581.400000     | 31.40                  | ---                    | 74.00                | 42.60       | H   | -14.2        |
| 3696.200000     | ---                    | 29.44                  | 54.00                | 24.56       | H   | -6.2         |
| 3696.200000     | 40.50                  | ---                    | 74.00                | 33.50       | H   | -6.2         |
| 5862.000000     | ---                    | 36.30                  | 54.00                | 17.70       | V   | -0.1         |
| 5862.000000     | 47.84                  | ---                    | 74.00                | 26.16       | V   | -0.1         |
| 8388.200000     | ---                    | 42.17                  | 54.00                | 11.83       | V   | 5.1          |
| 8388.200000     | 53.22                  | ---                    | 74.00                | 20.78       | V   | 5.1          |
| 16963.000000    | 56.14                  | ---                    | 74.00                | 17.86       | V   | 12.2         |
| 16963.000000    | ---                    | 46.14                  | 54.00                | 7.86        | V   | 12.2         |
| 17085.400000    | 53.72                  | ---                    | 74.00                | 20.28       | H   | 12.2         |
| 17085.400000    | ---                    | 46.71                  | 54.00                | 7.29        | H   | 12.2         |

**Band Edge:****Left Side****Common Information**

Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11n20 mode 2412 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

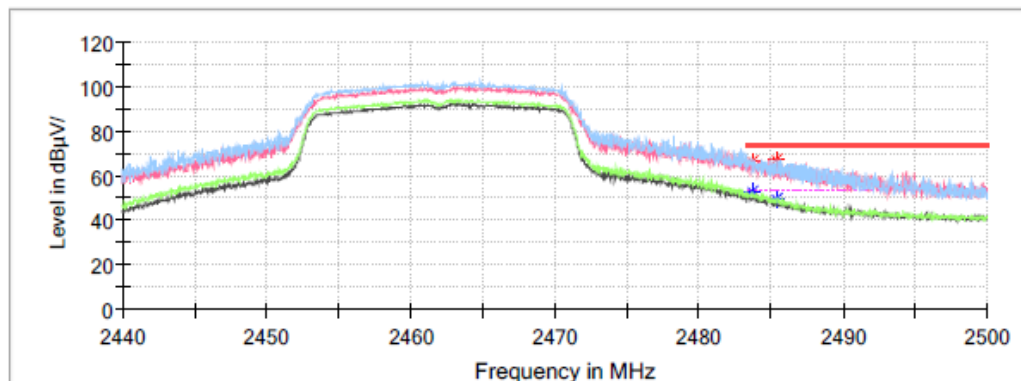
Full Spectrum

**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) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2389.688000     | ---                | 49.71              | 54.00            | 4.29        | H   | -0.6         |
| 2389.688000     | 60.55              | ---                | 74.00            | 13.45       | H   | -0.6         |
| 2389.744000     | ---                | 48.62              | 54.00            | 5.38        | H   | -0.6         |
| 2389.744000     | 64.66              | ---                | 74.00            | 9.34        | H   | -0.6         |

**Right Side****Common Information**

Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11n20 mode 2462 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

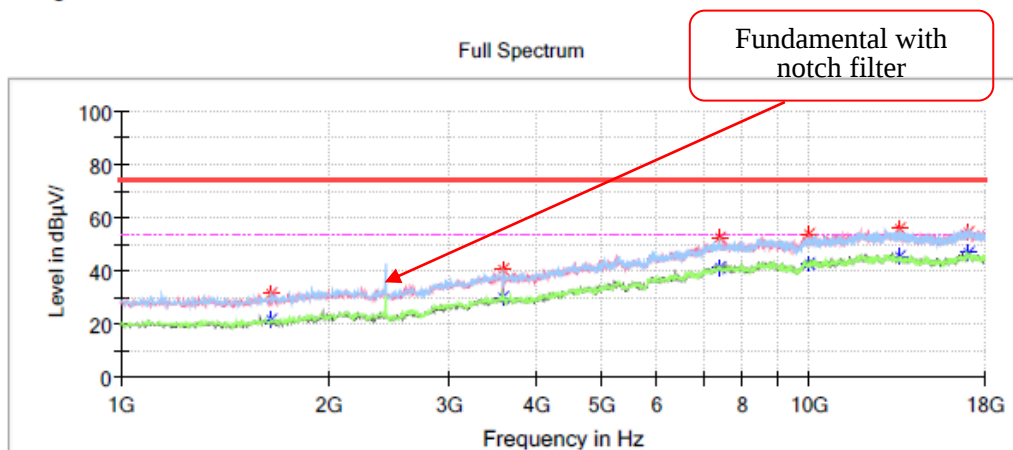
**Full Spectrum****Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2483.728000     | ---                | 52.88              | 54.00            | 1.12        | H   | -0.3         |
| 2483.728000     | 66.60              | ---                | 74.00            | 7.40        | H   | -0.3         |
| 2485.408000     | ---                | 49.46              | 54.00            | 4.54        | H   | -0.2         |
| 2485.408000     | 67.55              | ---                | 74.00            | 6.45        | H   | -0.2         |

**802.11n40 mode**  
**Low Channel: 2422 MHz**

### Common Information

Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11n40 mode 2422 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

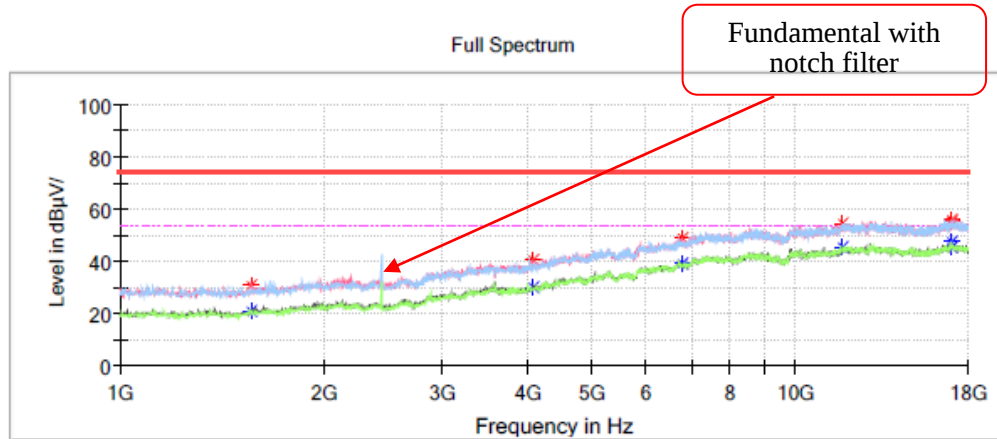


### Critical Freqs

| Frequency (MHz) | MaxPeak (dB µ V/m) | Average (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 1656.200000     | 31.74              | ---                | 74.00            | 42.26       | H   | -13.8        |
| 1656.200000     | ---                | 21.68              | 54.00            | 32.32       | H   | -13.8        |
| 3584.000000     | 40.41              | ---                | 74.00            | 33.59       | H   | -6.3         |
| 3584.000000     | ---                | 30.29              | 54.00            | 23.71       | H   | -6.3         |
| 7429.400000     | ---                | 41.07              | 54.00            | 12.93       | V   | 3.7          |
| 7429.400000     | 52.79              | ---                | 74.00            | 21.21       | V   | 3.7          |
| 9959.000000     | ---                | 42.48              | 54.00            | 11.52       | V   | 7.0          |
| 9959.000000     | 53.64              | ---                | 74.00            | 20.36       | V   | 7.0          |
| 13539.200000    | ---                | 45.62              | 54.00            | 8.38        | H   | 9.6          |
| 13539.200000    | 55.77              | ---                | 74.00            | 18.23       | H   | 9.6          |
| 17031.000000    | ---                | 46.84              | 54.00            | 7.16        | V   | 12.2         |
| 17031.000000    | 54.73              | ---                | 74.00            | 19.27       | V   | 12.2         |

**Middle Channel: 2437 MHz****Common Information**

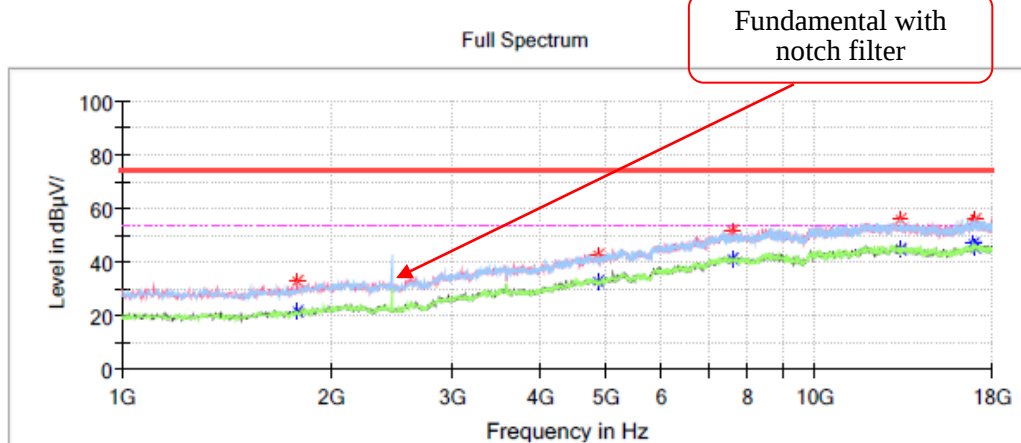
|                   |                                                 |
|-------------------|-------------------------------------------------|
| Project No.:      | RKSA240620011                                   |
| Test Mode:        | Transmitting in 802.11n40 mode 2437 channel     |
| Standard:         | FCC Part 15.205&FCC Part 15.209&FCC Part 15.247 |
| Receiver Setting: | RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto          |
| Test Engineer:    | Destine Hu                                      |

**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) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|--------------|
| 1567.800000     | ---                    | 20.93                  | 54.00                | 33.07       | V   | -14.3        |
| 1567.800000     | 30.75                  | ---                    | 74.00                | 43.25       | V   | -14.3        |
| 4090.600000     | ---                    | 29.99                  | 54.00                | 24.01       | V   | -5.6         |
| 4090.600000     | 40.34                  | ---                    | 74.00                | 33.66       | V   | -5.6         |
| 6803.800000     | ---                    | 38.83                  | 54.00                | 15.17       | V   | 1.8          |
| 6803.800000     | 49.16                  | ---                    | 74.00                | 24.84       | V   | 1.8          |
| 11761.000000    | ---                    | 45.27                  | 54.00                | 8.73        | V   | 8.9          |
| 11761.000000    | 54.83                  | ---                    | 74.00                | 19.17       | V   | 8.9          |
| 17031.000000    | ---                    | 47.22                  | 54.00                | 6.78        | H   | 12.2         |
| 17031.000000    | 55.59                  | ---                    | 74.00                | 18.41       | H   | 12.2         |
| 17048.000000    | ---                    | 45.52                  | 54.00                | 8.48        | H   | 12.2         |
| 17048.000000    | 55.77                  | ---                    | 74.00                | 18.23       | H   | 12.2         |

**High Channel: 2452 MHz****Common Information**

Project No.: RKSA240620011  
 Test Mode: Transmitting in 802.11n40 mode 2452 channel  
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Test Engineer: Destine Hu

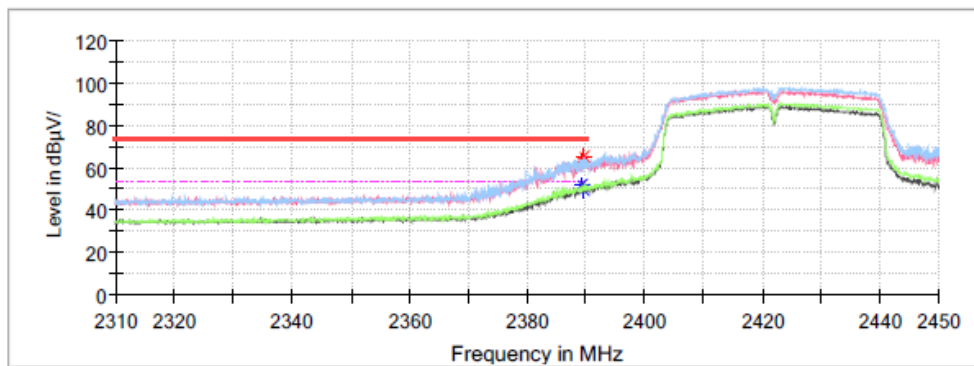
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|--------------|
| 1792.200000     | ---                    | 21.69                  | 54.00                | 32.31       | V   | -13.0        |
| 1792.200000     | 32.66                  | ---                    | 74.00                | 41.34       | V   | -13.0        |
| 4869.200000     | ---                    | 32.66                  | 54.00                | 21.34       | H   | -2.9         |
| 4869.200000     | 42.97                  | ---                    | 74.00                | 31.03       | H   | -2.9         |
| 7616.400000     | ---                    | 41.20                  | 54.00                | 12.80       | V   | 3.9          |
| 7616.400000     | 51.50                  | ---                    | 74.00                | 22.50       | V   | 3.9          |
| 13308.000000    | ---                    | 44.60                  | 54.00                | 9.40        | H   | 9.6          |
| 13308.000000    | 55.88                  | ---                    | 74.00                | 18.12       | H   | 9.6          |
| 16969.800000    | ---                    | 47.03                  | 54.00                | 6.97        | H   | 12.2         |
| 16969.800000    | 54.20                  | ---                    | 74.00                | 19.80       | H   | 12.2         |
| 17044.600000    | 56.27                  | ---                    | 74.00                | 17.73       | H   | 12.2         |
| 17044.600000    | ---                    | 45.77                  | 54.00                | 8.23        | H   | 12.2         |

**Band Edge:****Left Side****Common Information**

Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11n40 mode 2422 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

Full Spectrum

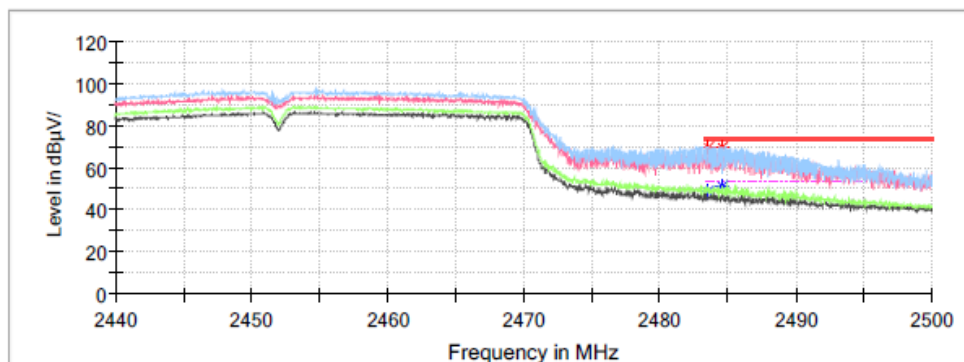
**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2389.240000     | ---                | 51.92              | 54.00            | 2.08        | V   | -0.6         |
| 2389.240000     | 63.33              | ---                | 74.00            | 10.67       | V   | -0.6         |
| 2389.800000     | ---                | 49.56              | 54.00            | 4.44        | H   | -0.6         |
| 2389.800000     | 65.06              | ---                | 74.00            | 8.94        | H   | -0.6         |

**Right Side****Common Information**

Project No.: RKSA240620011  
Test Mode: Transmitting in 802.11n40 mode 2452 channel  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

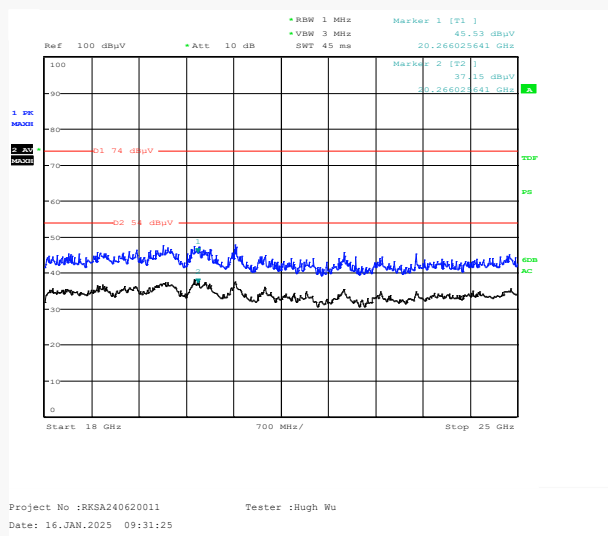
Full Spectrum

**Critical Freqs**

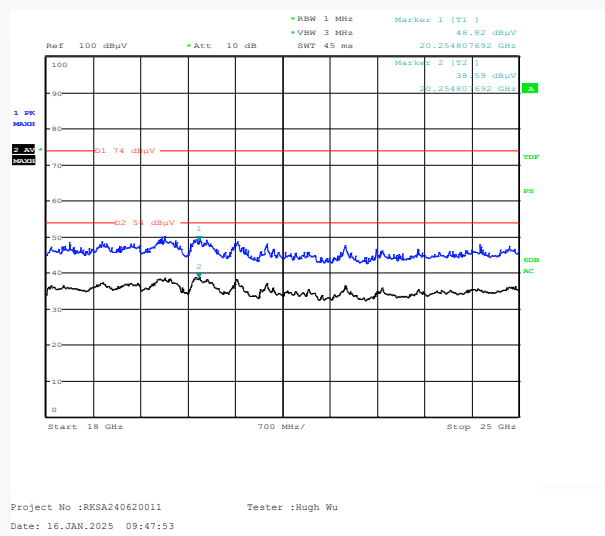
| Frequency (MHz) | MaxPeak (dB µ V/m) | Average (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2483.536000     | 70.02              | ---                | 74.00            | 3.98        | H   | -0.3         |
| 2483.536000     | ---                | 48.87              | 54.00            | 5.13        | H   | -0.3         |
| 2484.640000     | 69.41              | ---                | 74.00            | 4.59        | H   | -0.3         |
| 2484.640000     | ---                | 51.24              | 54.00            | 2.76        | H   | -0.3         |

# 18GHz-25GHz: Transmitting in maximum output power mode and channel

## Horizontal



## Vertical



| Frequency (MHz) | Max Peak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|-------------------|------------------|----------------|-------------|-----|--------------|
| 20254.81        | ---               | 38.59            | 54             | 15.41       | V   | 12.51        |
| 20254.81        | 48.82             | ---              | 74             | 25.18       | V   | 12.51        |
| 20266.03        | ---               | 37.15            | 54             | 16.85       | H   | 12.52        |
| 20266.03        | 45.53             | ---              | 74             | 28.47       | H   | 12.52        |

Note: The test distance is 3m. The limit is 74dBμV/m (Peak) and 54dBμV/m (Average).

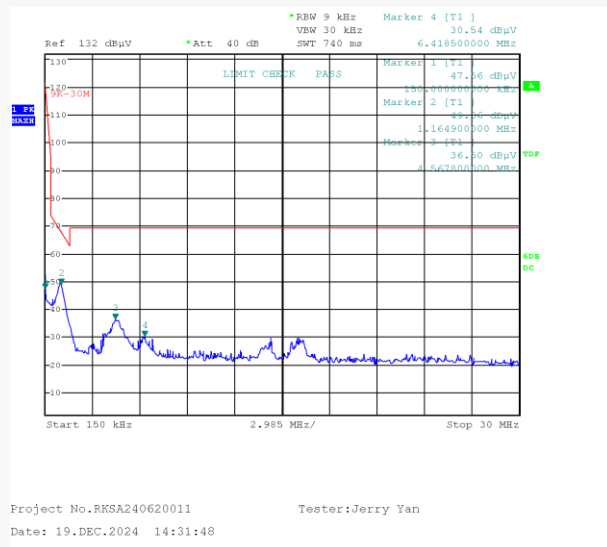
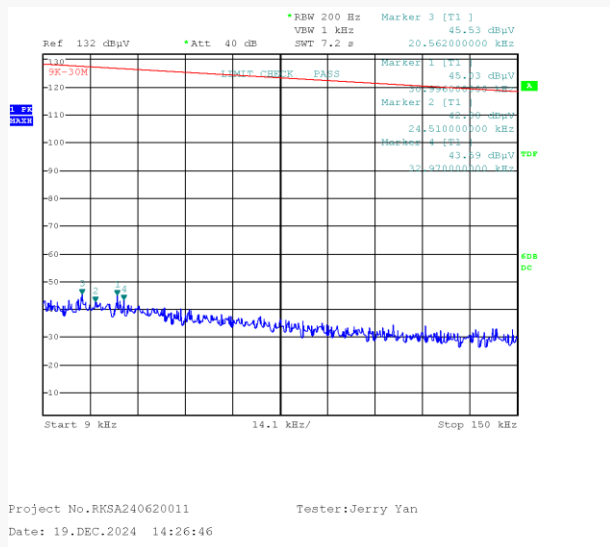
**For BLE Mode:**

**9 kHz-30 MHz: Transmitter in maximum output BLE (1 Mbps) mode low channel**

**Parallel(worst case)**

**9kHz-150kHz**

**150kHz-30MHz**



**9kHz-150kHz**

| Frequency (MHz) | Corrected Amplitude (dBμV/m) @3m | Detector PK/QP/Ave. | Corrected Factor (dB/m) | Limit (dBμV/m) @3m | Margin (dB) |
|-----------------|----------------------------------|---------------------|-------------------------|--------------------|-------------|
| 0.020562        | 45.53                            | PK                  | -0.56                   | 121.34             | 75.81       |
| 0.024510        | 42.88                            | PK                  | -0.58                   | 119.82             | 76.94       |
| 0.030996        | 45.03                            | PK                  | -0.77                   | 117.78             | 72.75       |
| 0.032970        | 43.59                            | PK                  | -1.09                   | 117.24             | 73.65       |

**150kHz-30MHz**

| Frequency (MHz) | Corrected Amplitude (dBμV/m) @3m | Detector PK/QP/Ave. | Corrected Factor (dB/m) | Limit (dBμV/m) @3m | Margin (dB) |
|-----------------|----------------------------------|---------------------|-------------------------|--------------------|-------------|
| 0.15000         | 47.56                            | PK                  | -11.34                  | 104.08             | 56.52       |
| 1.16490         | 49.36                            | PK                  | -28.15                  | 66.28              | 16.92       |
| 4.56780         | 36.50                            | PK                  | -32.00                  | 69.54              | 33.04       |
| 6.41850         | 30.54                            | PK                  | -32.27                  | 69.54              | 39.00       |

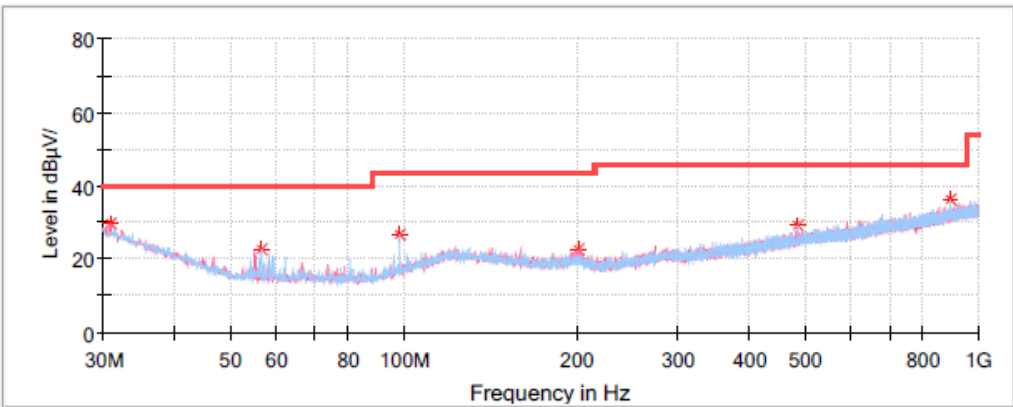
**For BLE Mode:**

**Transmitter in maximum output BLE (1 Mbps) mode low channel  
30MHz-1GHz**

**Low Channel: 2402MHz**

**Common Information**

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| Project No:          | RKSA240620011                                       |
| EUT Model:           | P14                                                 |
| Test Mode:           | Transmitting in BLE-1M mode low channel             |
| Standard:            | FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247 |
| Test Equipment:      | ESCI, JB3, 310N                                     |
| Temperature:         | 20.2°C                                              |
| Humidity:            | 58%                                                 |
| Barometric Pressure: | 102.6kPa                                            |
| Test Engineer:       | Leah Li                                             |
| Test Date:           | 2024/10/25                                          |

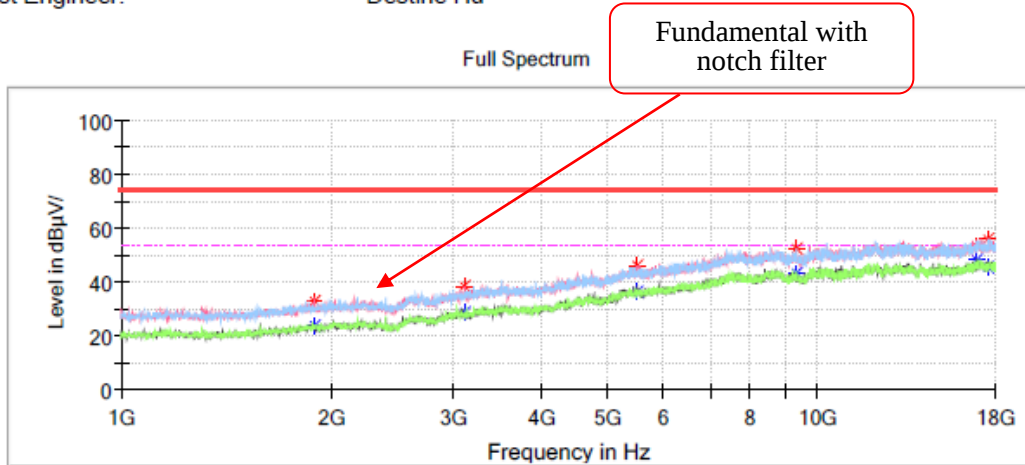


**Critical\_Freqs**

| Frequency (MHz) | MaxPeak (dBμ V/m) | Limit (dBμ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|-------------------|-----------------|-------------|-----|--------------|
| 30.848750       | 29.52             | 40.00           | 10.48       | V   | -5.3         |
| 56.432500       | 22.88             | 40.00           | 17.12       | H   | -17.3        |
| 98.627500       | 26.46             | 43.50           | 17.04       | H   | -14.8        |
| 201.690000      | 22.69             | 43.50           | 20.81       | V   | -12.3        |
| 484.808750      | 29.36             | 46.00           | 16.64       | H   | -5.8         |
| 893.178750      | 36.13             | 46.00           | 9.87        | H   | 0.9          |

**Transmitter in maximum output BLE (1 Mbps) mode  
1GHz-18GHz****Low Channel: 2402MHz****Common Information**

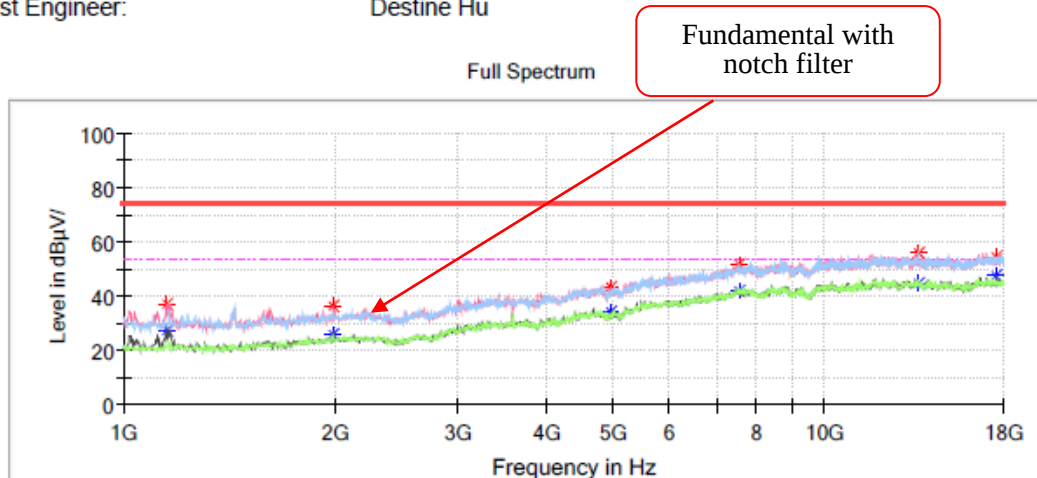
Project No.: RKSA240620011  
Test Mode: BLE 1M  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

**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) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 1889.100000     | ---                | 23.56              | 54.00            | 30.44       | V   | -12.4        |
| 1889.100000     | 33.04              | ---                | 74.00            | 40.96       | V   | -12.4        |
| 3113.100000     | ---                | 28.93              | 54.00            | 25.07       | V   | -8.0         |
| 3113.100000     | 38.25              | ---                | 74.00            | 35.75       | V   | -8.0         |
| 5494.800000     | ---                | 36.60              | 54.00            | 17.40       | H   | -0.3         |
| 5494.800000     | 46.00              | ---                | 74.00            | 28.00       | H   | -0.3         |
| 9302.800000     | ---                | 43.07              | 54.00            | 10.93       | H   | 5.4          |
| 9302.800000     | 52.69              | ---                | 74.00            | 21.31       | H   | 5.4          |
| 16964.700000    | ---                | 48.43              | 54.00            | 5.57        | V   | 12.2         |
| 16964.700000    | 53.07              | ---                | 74.00            | 20.93       | V   | 12.2         |
| 17595.400000    | ---                | 45.54              | 54.00            | 8.46        | H   | 11.6         |
| 17595.400000    | 55.99              | ---                | 74.00            | 18.01       | H   | 11.6         |

**Middle Channel: 2440MHz****Common Information**

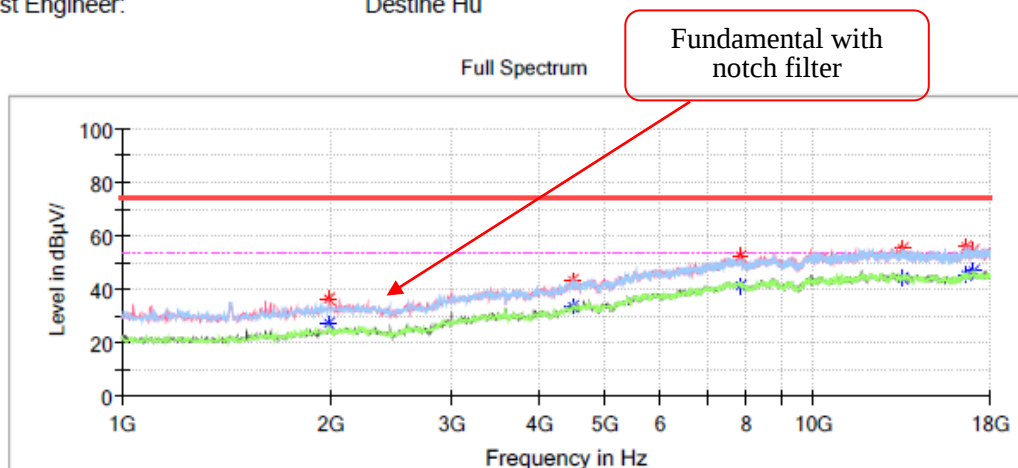
Project No.: RKSA240620011  
 Test Mode: BLE 1M  
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Test Engineer: Destine Hu

**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) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 1153.000000     | ---                | 27.28              | 54.00            | 26.72       | V   | -15.2        |
| 1153.000000     | 36.80              | ---                | 74.00            | 37.20       | V   | -15.2        |
| 1989.400000     | ---                | 26.14              | 54.00            | 27.86       | V   | -11.8        |
| 1989.400000     | 36.20              | ---                | 74.00            | 37.80       | V   | -11.8        |
| 4954.200000     | ---                | 34.37              | 54.00            | 19.63       | V   | -2.6         |
| 4954.200000     | 43.67              | ---                | 74.00            | 30.33       | V   | -2.6         |
| 7565.400000     | ---                | 41.86              | 54.00            | 12.14       | H   | 3.9          |
| 7565.400000     | 52.06              | ---                | 74.00            | 21.94       | H   | 3.9          |
| 13576.600000    | 55.78              | ---                | 74.00            | 18.22       | H   | 9.6          |
| 13576.600000    | ---                | 45.05              | 54.00            | 8.95        | H   | 9.6          |
| 17598.800000    | 54.45              | ---                | 74.00            | 19.55       | V   | 11.6         |
| 17598.800000    | ---                | 47.44              | 54.00            | 6.56        | V   | 11.6         |

**High Channel: 2480MHz****Common Information**

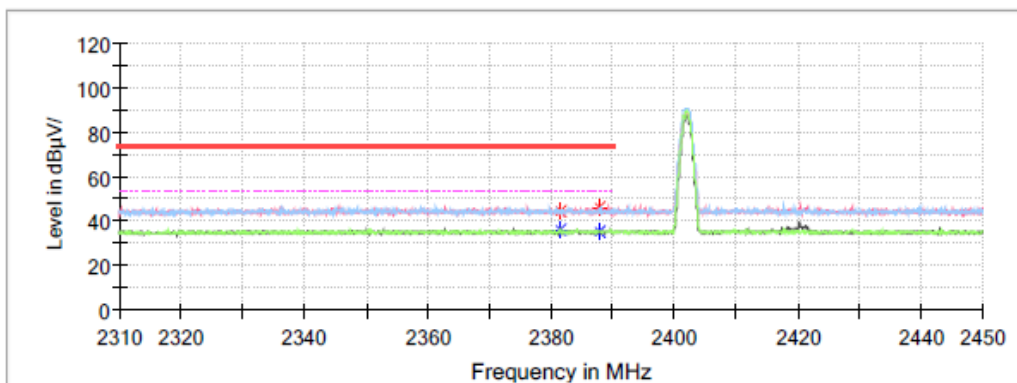
Project No.: RKSA240620011  
 Test Mode: BLE 1M  
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Test Engineer: Destine Hu

**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) |
|-----------------|------------------------|------------------------|----------------------|-------------|-----|--------------|
| 1992.800000     | ---                    | 27.43                  | 54.00                | 26.57       | V   | -11.8        |
| 1992.800000     | 36.17                  | ---                    | 74.00                | 37.83       | V   | -11.8        |
| 4481.600000     | ---                    | 33.78                  | 54.00                | 20.22       | V   | -4.3         |
| 4481.600000     | 43.30                  | ---                    | 74.00                | 30.70       | V   | -4.3         |
| 7827.200000     | ---                    | 41.41                  | 54.00                | 12.59       | H   | 3.9          |
| 7827.200000     | 52.51                  | ---                    | 74.00                | 21.49       | H   | 3.9          |
| 13410.000000    | ---                    | 44.35                  | 54.00                | 9.65        | H   | 9.6          |
| 13410.000000    | 55.27                  | ---                    | 74.00                | 18.73       | H   | 9.6          |
| 16599.200000    | 56.20                  | ---                    | 74.00                | 17.80       | H   | 11.1         |
| 16599.200000    | ---                    | 45.36                  | 54.00                | 8.64        | H   | 11.1         |
| 17024.200000    | 54.80                  | ---                    | 74.00                | 19.20       | V   | 12.2         |
| 17024.200000    | ---                    | 46.71                  | 54.00                | 7.29        | V   | 12.2         |

**Band Edge:****Left Side****Common Information**

Project No.: RKSA240620011  
Test Mode: BLE 1M  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

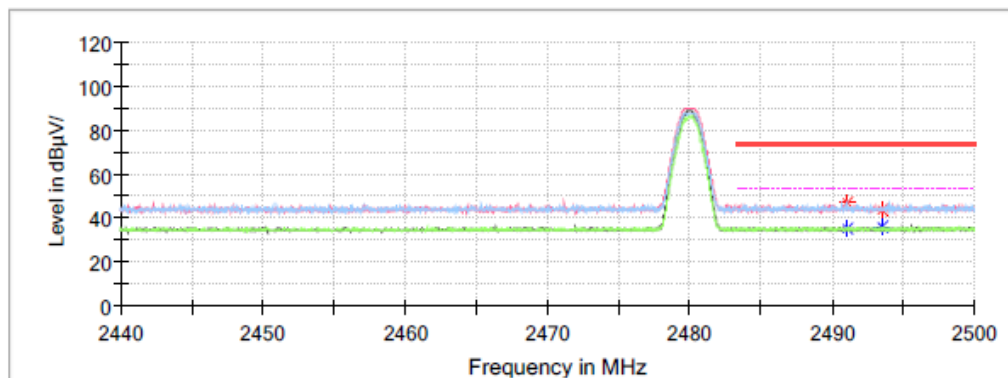
**Full Spectrum****Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2381.400000     | ---                | 36.09              | 54.00            | 17.91       | V   | -0.6         |
| 2381.400000     | 44.59              | ---                | 74.00            | 29.41       | V   | -0.6         |
| 2387.840000     | ---                | 35.08              | 54.00            | 18.92       | H   | -0.6         |
| 2387.840000     | 46.49              | ---                | 74.00            | 27.51       | H   | -0.6         |

**Right Side****Common Information**

Project No.: RKSA240620011  
Test Mode: BLE 1M  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

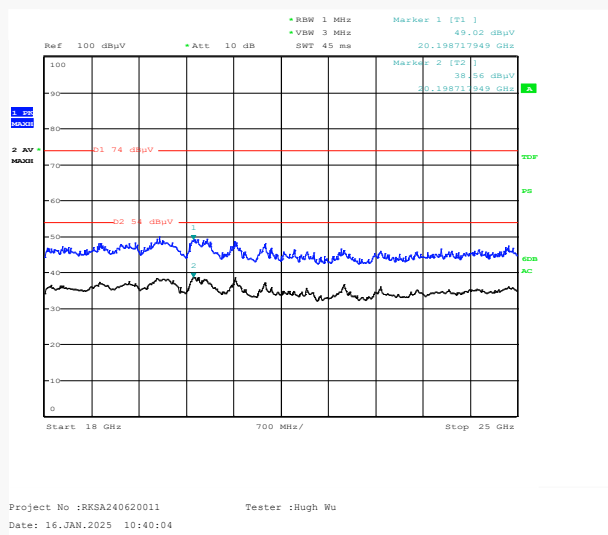
Full Spectrum

**Critical Freqs**

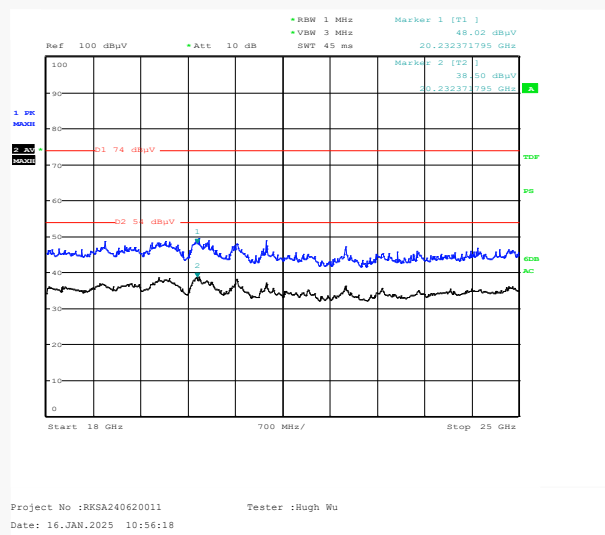
| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2491.024000     | 46.79              | ---                | 74.00            | 27.21       | H   | -0.2         |
| 2491.024000     | ---                | 35.41              | 54.00            | 18.59       | H   | -0.2         |
| 2493.544000     | 43.94              | ---                | 74.00            | 30.06       | H   | -0.2         |
| 2493.544000     | ---                | 36.23              | 54.00            | 17.77       | H   | -0.2         |

# 18GHz-25GHz: Transmitting in maximum output power mode and channel

## Horizontal



## Vertical



| Frequency (MHz) | Max Peak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|-------------------|------------------|----------------|-------------|-----|--------------|
| 20232.37        | ---               | 38.5             | 54             | 15.5        | V   | 12.49        |
| 20232.37        | 48.02             | ---              | 74             | 25.98       | V   | 12.49        |
| 20198.72        | ---               | 38.56            | 54             | 15.44       | H   | 12.46        |
| 20198.72        | 49.02             | ---              | 74             | 24.98       | H   | 12.46        |

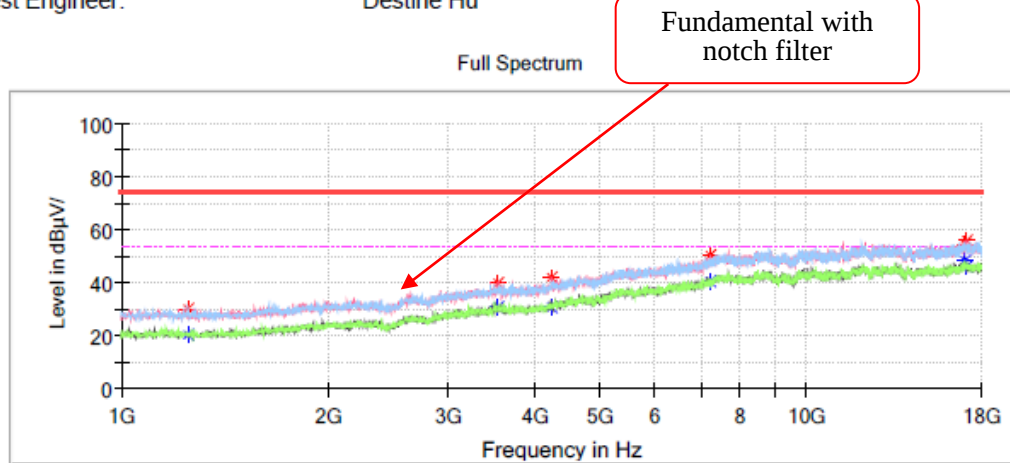
Note: The test distance is 3m. The limit is 74dBμV/m (Peak) and 54dBμV/m (Average).

**Transmitter in maximum output BLE (2 Mbps) mode  
1GHz-18GHz**

**Low Channel: 2402MHz**

**Common Information**

Project No.: RKSA240620011  
 Test Mode: BLE 2M  
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Test Engineer: Destine Hu

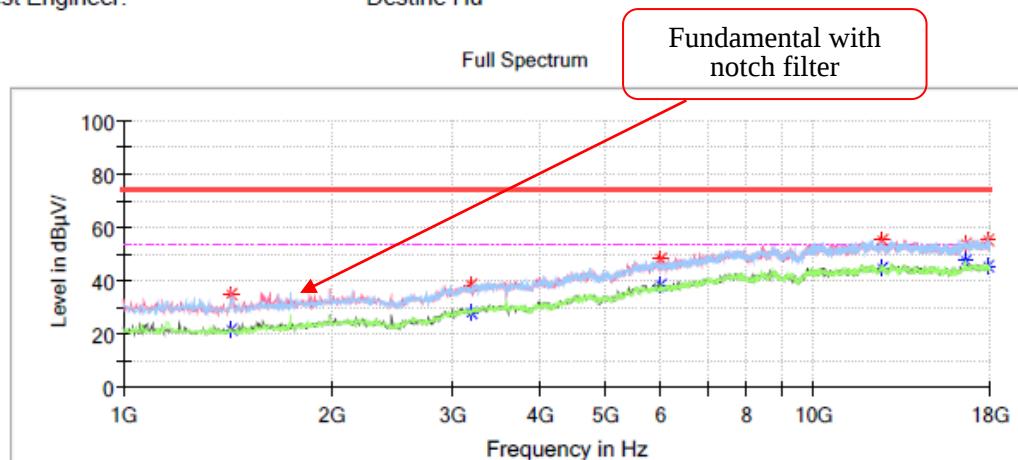


**Critical Freqs**

| Frequency (MHz) | MaxPeak (dB µ V/m) | Average (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 1253.300000     | ---                | 20.58              | 54.00            | 33.42       | H   | -15.1        |
| 1253.300000     | 30.32              | ---                | 74.00            | 43.68       | H   | -15.1        |
| 3538.100000     | ---                | 30.55              | 54.00            | 23.45       | H   | -6.3         |
| 3538.100000     | 40.17              | ---                | 74.00            | 33.83       | H   | -6.3         |
| 4238.500000     | ---                | 30.60              | 54.00            | 23.40       | V   | -5.1         |
| 4238.500000     | 41.73              | ---                | 74.00            | 32.27       | V   | -5.1         |
| 7240.700000     | ---                | 40.53              | 54.00            | 13.47       | V   | 3.2          |
| 7240.700000     | 50.46              | ---                | 74.00            | 23.54       | V   | 3.2          |
| 16980.000000    | ---                | 48.13              | 54.00            | 5.87        | V   | 12.2         |
| 16980.000000    | 54.63              | ---                | 74.00            | 19.37       | V   | 12.2         |
| 17129.600000    | 55.96              | ---                | 74.00            | 18.04       | V   | 12.1         |
| 17129.600000    | ---                | 46.48              | 54.00            | 7.52        | V   | 12.1         |

**Middle Channel: 2440MHz****Common Information**

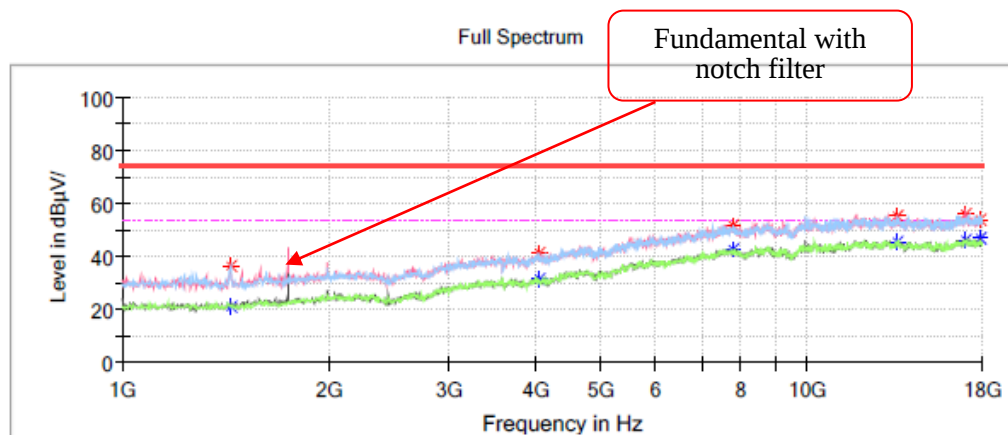
Project No.: RKSA240620011  
 Test Mode: BLE 2M  
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Test Engineer: Destine Hu

**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) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 1435.200000     | ---                | 21.75              | 54.00            | 32.25       | V   | -14.8        |
| 1435.200000     | 34.98              | ---                | 74.00            | 39.02       | V   | -14.8        |
| 3193.000000     | ---                | 28.21              | 54.00            | 25.79       | V   | -7.6         |
| 3193.000000     | 38.21              | ---                | 74.00            | 35.79       | V   | -7.6         |
| 5991.200000     | ---                | 38.34              | 54.00            | 15.66       | V   | 0.0          |
| 5991.200000     | 48.57              | ---                | 74.00            | 25.43       | V   | 0.0          |
| 12529.400000    | ---                | 44.75              | 54.00            | 9.25        | V   | 9.7          |
| 12529.400000    | 55.28              | ---                | 74.00            | 18.72       | V   | 9.7          |
| 16602.600000    | ---                | 47.49              | 54.00            | 6.51        | H   | 11.1         |
| 16602.600000    | 53.67              | ---                | 74.00            | 20.33       | H   | 11.1         |
| 17833.400000    | ---                | 45.34              | 54.00            | 8.66        | H   | 11.8         |
| 17833.400000    | 55.55              | ---                | 74.00            | 18.45       | H   | 11.8         |

**High Channel: 2480MHz****Common Information**

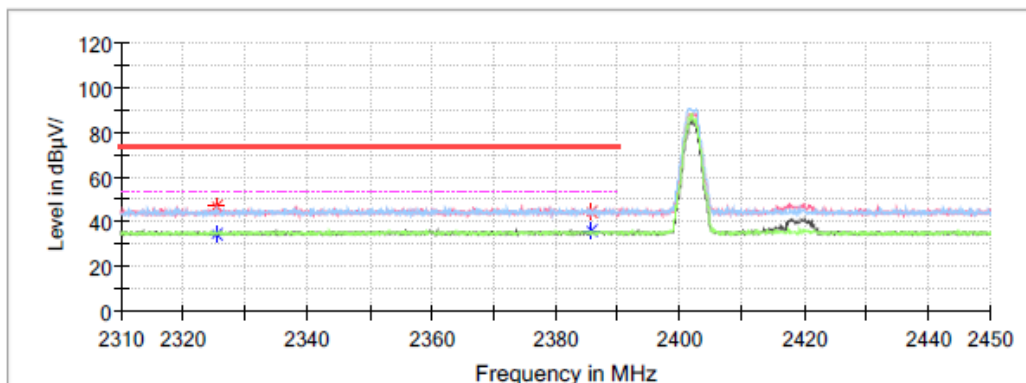
Project No.: RKSA240620011  
 Test Mode: BLE 2M  
 Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
 Test Engineer: Destine Hu

**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) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 1438.600000     | ---                | 21.20              | 54.00            | 32.80       | H   | -14.8        |
| 1438.600000     | 36.04              | ---                | 74.00            | 37.96       | H   | -14.8        |
| 4053.200000     | ---                | 31.20              | 54.00            | 22.80       | V   | -5.7         |
| 4053.200000     | 41.24              | ---                | 74.00            | 32.76       | V   | -5.7         |
| 7779.600000     | ---                | 42.40              | 54.00            | 11.60       | H   | 3.9          |
| 7779.600000     | 51.71              | ---                | 74.00            | 22.29       | H   | 3.9          |
| 13556.200000    | ---                | 45.56              | 54.00            | 8.44        | H   | 9.6          |
| 13556.200000    | 55.52              | ---                | 74.00            | 18.48       | H   | 9.6          |
| 17075.200000    | 55.82              | ---                | 74.00            | 18.18       | V   | 12.2         |
| 17075.200000    | ---                | 45.94              | 54.00            | 8.06        | V   | 12.2         |
| 17884.400000    | 53.85              | ---                | 74.00            | 20.15       | V   | 11.9         |
| 17884.400000    | ---                | 46.69              | 54.00            | 7.31        | V   | 11.9         |

**Band Edge:****Left Side****Common Information**

Project No.: RKSA240620011  
Test Mode: BLE 2M  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

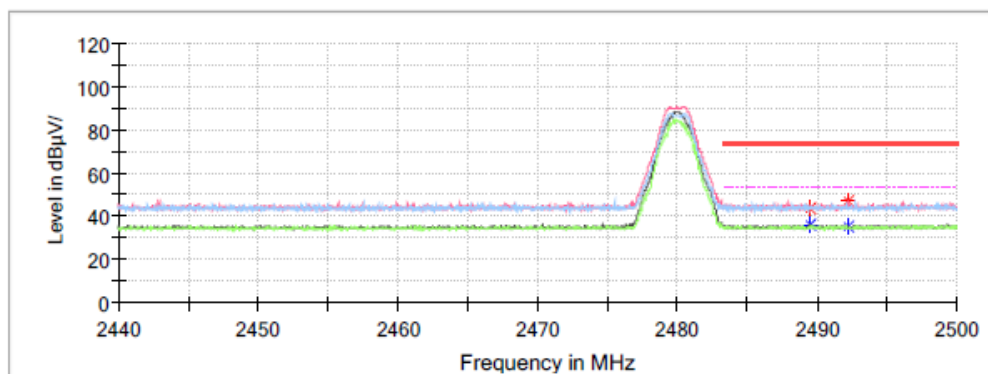
**Full Spectrum****Critical Freqs**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2325.344000     | 46.69              | ---                | 74.00            | 27.31       | H   | -0.8         |
| 2325.344000     | ---                | 34.57              | 54.00            | 19.43       | H   | -0.8         |
| 2385.824000     | 44.56              | ---                | 74.00            | 29.44       | V   | -0.6         |
| 2385.824000     | ---                | 36.28              | 54.00            | 17.72       | V   | -0.6         |

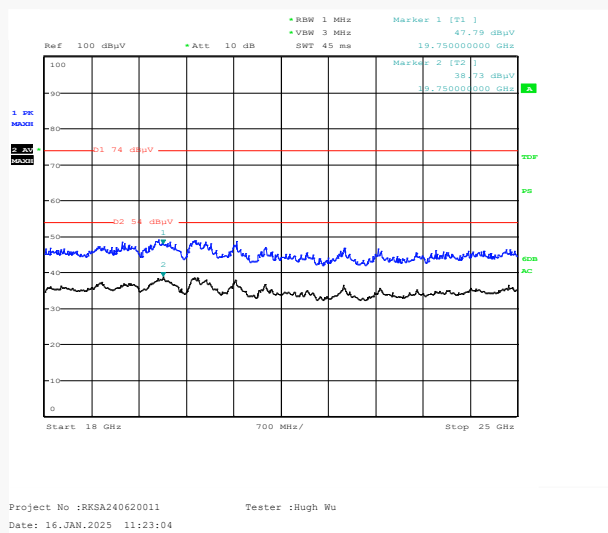
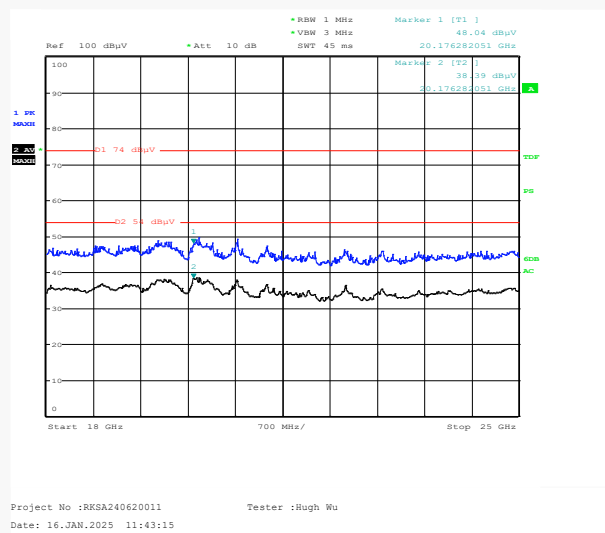
**Right Side****Common Information**

Project No.: RKSA240620011  
Test Mode: BLE 2M  
Standard: FCC Part 15.205&FCC Part 15.209&FCC Part 15.247  
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto  
Test Engineer: Destine Hu

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) |
|-----------------|--------------------|--------------------|------------------|-------------|-----|--------------|
| 2489.584000     | ---                | 36.25              | 54.00            | 17.75       | V   | -0.2         |
| 2489.584000     | 43.73              | ---                | 74.00            | 30.27       | V   | -0.2         |
| 2492.224000     | ---                | 35.16              | 54.00            | 18.84       | V   | -0.2         |
| 2492.224000     | 46.88              | ---                | 74.00            | 27.12       | V   | -0.2         |

**18GHz-25GHz: Transmitting in maximum output power mode and channel****Horizontal****Vertical**

| Frequency (MHz) | Max Peak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|-------------------|------------------|----------------|-------------|-----|--------------|
| 20176.28        | ---               | 38.39            | 54             | 15.61       | V   | 12.44        |
| 20176.28        | 48.04             | ---              | 74             | 25.96       | V   | 12.44        |
| 19750.00        | ---               | 38.73            | 54             | 15.27       | H   | 11.56        |
| 19750.00        | 47.79             | ---              | 74             | 26.21       | H   | 11.56        |

Note: The test distance is 3m. The limit is 74dBμV/m (Peak) and 54dBμV/m (Average).

**SPOT CHECK WITH MAXIMUM CONDUCTED OUTPUT POWER****Test Result:** Compliant.*EUT operation mode: Transmitting*

| Mode    | Channel | Frequency (MHz) | Max Conducted Peak Output Power (dBm) | Maximum Conducted Average Output Power(dBm) | Limit (dBm) | Result |
|---------|---------|-----------------|---------------------------------------|---------------------------------------------|-------------|--------|
| 802.11g | Low     | 2412            | 21.81                                 | 13.87                                       | 30          | Pass   |
|         | Middle  | 2437            | 21.79                                 | 13.81                                       | 30          | Pass   |
|         | High    | 2462            | 21.62                                 | 13.42                                       | 30          | Pass   |

| Mode        | Channel | Frequency (MHz) | Max Conducted Peak Output Power (dBm) | Limit (dBm) | Result |
|-------------|---------|-----------------|---------------------------------------|-------------|--------|
| BLE (1Mbps) | Low     | 2402            | -4.00                                 | 30          | Pass   |
|             | Middle  | 2440            | -3.95                                 | 30          | Pass   |
|             | High    | 2480            | -3.62                                 | 30          | Pass   |
| BLE (2Mbps) | Low     | 2402            | -3.93                                 | 30          | Pass   |
|             | Middle  | 2440            | -3.79                                 | 30          | Pass   |
|             | High    | 2480            | -3.52                                 | 30          | Pass   |

Note: The Spot Check data were similar to the original data.

## **EUT PHOTOGRAPHS**

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

## **TEST SETUP PHOTOGRAPHS**

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

## 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 \*\*\*\*\***