

# TEST REPORT

Applicant Name: YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.  
Address: No.666 Hu'an Rd. Huli District Xiamen City, Fujian, P.R. China  
Report Number: 2401V67572E-RF-00  
FCC ID: T2C-AX83H

## Test Standard (s)

FCC PART 15.407

## Sample Description

Product Type: Wi-Fi IP Phone  
Model No.: AX83H  
Multiple Model(s) No.: N/A  
Trade Mark: **Yealink**  
Date Received: 2024/08/01  
Issue Date: 2024/12/13

|              |       |
|--------------|-------|
| Test Result: | Pass▲ |
|--------------|-------|

▲ In the configuration tested, the EUT complied with the standards above.

## Prepared and Checked By:

*Gala Liu*

Gala Liu  
RF Engineer

## Approved By:

*Nancy Wang*

Nancy Wang  
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number     | Description of Revision | Date of Revision |
|-----------------|-------------------|-------------------------|------------------|
| 0               | 2401V67572E-RF-00 | Original Report         | 2024/12/13       |

## GENERAL INFORMATION

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

|                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                                                                                                                                                                                                                                                                                                                                   | Wi-Fi IP Phone                                                                                                                                                                         |
| Tested Model                                                                                                                                                                                                                                                                                                                              | AX83H                                                                                                                                                                                  |
| Multiple Model(s)                                                                                                                                                                                                                                                                                                                         | N/A                                                                                                                                                                                    |
| Frequency Range                                                                                                                                                                                                                                                                                                                           | 5G Wi-Fi: 5150-5250MHz; 5250-5350MHz; 5470-5725MHz; 5725-5850MHz                                                                                                                       |
| Mode                                                                                                                                                                                                                                                                                                                                      | 802.11a/n20/n40/ac20/ac40/ax20/ax40                                                                                                                                                    |
| Maximum Conducted Average Output Power                                                                                                                                                                                                                                                                                                    | 5150-5250MHz: 15.71dBm<br>5250-5350MHz: 16.48dBm<br>5470-5725MHz: 11.86dBm<br>5725-5850MHz: 18.04dBm                                                                                   |
| Modulation Technique                                                                                                                                                                                                                                                                                                                      | OFDM, OFDMA                                                                                                                                                                            |
| Antenna Specification <sup>#</sup>                                                                                                                                                                                                                                                                                                        | Band 1/2/3/4: 1.51dBi (provided by the applicant)                                                                                                                                      |
| Voltage Range                                                                                                                                                                                                                                                                                                                             | DC 3.80V from Battery or DC 5V from Type-C Port or DC 5V from Adapter                                                                                                                  |
| Sample serial number                                                                                                                                                                                                                                                                                                                      | 2PBE-1 for Conducted and Radiated Emissions Test<br>2PBE-6 for RF Conducted Test (Assigned by BACL, Shenzhen)                                                                          |
| Sample/EUT Status                                                                                                                                                                                                                                                                                                                         | Good condition                                                                                                                                                                         |
| Adapter Information                                                                                                                                                                                                                                                                                                                       | Adapter 1<br>Model: YLPS051200B1-US<br>Input: 100-240V~50/60Hz 0.2A<br>Output: 5.0V, 1.2A<br>Adapter 2<br>Model: YLPS051200C1-US<br>Input: 100-240V~50/60Hz 0.2A<br>Output: 5.0V, 1.2A |
| Note: The EUT powered by Type-C Port or Charger, the worst case powered by Charger with adapter 1 was selected to test for AC line conducted emission according to DSS report test result and the worst case powered by Charger with adapter 1 was selected to test for radiated emission below 1GHz according to DTS report test result. |                                                                                                                                                                                        |

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

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

## Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

## Measurement Uncertainty

| Parameter                          |                             | Uncertainty                             |
|------------------------------------|-----------------------------|-----------------------------------------|
| Occupied Channel Bandwidth         |                             | ±5%                                     |
| RF Frequency                       |                             | 213.55 Hz(k=2, 95% level of confidence) |
| RF output power, conducted         |                             | 0.72 dB(k=2, 95% level of confidence)   |
| Unwanted Emission, conducted       |                             | 1.75 dB(k=2, 95% level of confidence)   |
| AC Power Lines Conducted Emissions | 9kHz-150kHz                 | 3.94dB(k=2, 95% level of confidence)    |
|                                    | 150kHz-30MHz                | 3.84dB(k=2, 95% level of confidence)    |
| Radiated Emissions                 | 9kHz - 30MHz                | 3.30dB(k=2, 95% level of confidence)    |
|                                    | 30MHz~200MHz (Horizontal)   | 4.48dB(k=2, 95% level of confidence)    |
|                                    | 30MHz~200MHz (Vertical)     | 4.55dB(k=2, 95% level of confidence)    |
|                                    | 200MHz~1000MHz (Horizontal) | 4.85dB(k=2, 95% level of confidence)    |
|                                    | 200MHz~1000MHz (Vertical)   | 5.05dB(k=2, 95% level of confidence)    |
|                                    | 1GHz - 6GHz                 | 5.35dB(k=2, 95% level of confidence)    |
|                                    | 6GHz - 18GHz                | 5.44dB(k=2, 95% level of confidence)    |
|                                    | 18GHz - 40GHz               | 5.16dB(k=2, 95% level of confidence)    |
| Temperature                        |                             | ±1°C                                    |
| Humidity                           |                             | ±1%                                     |
| Supply voltages                    |                             | ±0.4%                                   |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

For 5150-5250MHz Band, 6 channels are provided to testing:

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

For 802.11a/ac20/ax20 mode: channel 36, 40, 48 were tested;

For 802.11ac40/ax40 mode: channel 38, 46 were tested.

For 5250-5350MHz Band, 6 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 52      | 5260            | 60      | 5300            |
| 54      | 5270            | 62      | 5310            |
| 56      | 5280            | 64      | 5320            |

For 802.11a/ac20/ax20 mode: channel 52, 56, 64 were tested;

For 802.11ac40/ax40 mode: channel 54, 62 were tested.

For 5470-5725MHz Band, 11 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 100     | 5500            | 116     | 5580            |
| 102     | 5510            | 132     | 5660            |
| 104     | 5520            | 134     | 5670            |
| 108     | 5540            | 136     | 5680            |
| 110     | 5550            | 140     | 5700            |
| 112     | 5560            | /       | /               |

For 802.11a/ac20/ax20 mode: channel 100, 116, 140 were tested;

For 802.11ac40/ax40 mode: channel 102, 110, 134 were tested.

For 5725-5850MHz Band, 7 channels are provided to testing:

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

For 802.11a/ac20/ax20 mode: channel 149, 157, 165 were tested;

For 802.11ac40/ax40 mode: channel 151, 159 were tested.

## EUT Exercise Software

“Authentication Tool.exe V 2.0.11.0”<sup>#</sup> software was used and power level as below. The software and power level was provided by the applicant. The device was tested with the worst case was performed as below:



| <b>5150-5250 MHz Band:</b> |                      |                             |                  |                                        |
|----------------------------|----------------------|-----------------------------|------------------|----------------------------------------|
| <b>Test Modes</b>          | <b>Test Channels</b> | <b>Test Frequency (MHz)</b> | <b>Data rate</b> | <b>Power Level Setting<sup>#</sup></b> |
| 802.11a                    | Lowest               | 5180                        | 6Mbps            | 14                                     |
|                            | Middle               | 5200                        | 6Mbps            | 14                                     |
|                            | Highest              | 5240                        | 6Mbps            | 14                                     |
| 802.11ac-VHT20             | Lowest               | 5180                        | MCS0             | 14                                     |
|                            | Middle               | 5200                        | MCS0             | 14                                     |
|                            | Highest              | 5240                        | MCS0             | 14                                     |
| 802.11ac-VHT40             | Lowest               | 5190                        | MCS0             | 13                                     |
|                            | Highest              | 5230                        | MCS0             | 13                                     |
| 802.11ax-HE20              | Lowest               | 5180                        | MCS0             | 13                                     |
|                            | Middle               | 5200                        | MCS0             | 13                                     |
|                            | Highest              | 5240                        | MCS0             | 13                                     |
| 802.11ax-HE40              | Lowest               | 5190                        | MCS0             | 12                                     |
|                            | Highest              | 5230                        | MCS0             | 12                                     |
| <b>5250-5350 MHz Band:</b> |                      |                             |                  |                                        |
| <b>Test Modes</b>          | <b>Test Channels</b> | <b>Test Frequency (MHz)</b> | <b>Data rate</b> | <b>Power Level Setting<sup>#</sup></b> |
| 802.11a                    | Lowest               | 5260                        | 6Mbps            | 14                                     |
|                            | Middle               | 5280                        | 6Mbps            | 14                                     |
|                            | Highest              | 5320                        | 6Mbps            | 14                                     |
| 802.11ac-VHT20             | Lowest               | 5260                        | MCS0             | 13                                     |
|                            | Middle               | 5280                        | MCS0             | 13                                     |
|                            | Highest              | 5320                        | MCS0             | 13                                     |
| 802.11ac-VHT40             | Lowest               | 5270                        | MCS0             | 11                                     |
|                            | Highest              | 5310                        | MCS0             | 11                                     |
| 802.11ax-HE20              | Lowest               | 5260                        | MCS0             | 12                                     |
|                            | Middle               | 5280                        | MCS0             | 12                                     |
|                            | Highest              | 5320                        | MCS0             | 12                                     |
| 802.11ax-HE40              | Lowest               | 5270                        | MCS0             | 11                                     |
|                            | Highest              | 5310                        | MCS0             | 11                                     |

| <b>5470-5725 MHz Band:</b>                                                                                                                                                                                                                                                                                                                                          |                      |                             |                  |                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------|------------------|----------------------------------------|
| <b>Test Modes</b>                                                                                                                                                                                                                                                                                                                                                   | <b>Test Channels</b> | <b>Test Frequency (MHz)</b> | <b>Data rate</b> | <b>Power Level Setting<sup>#</sup></b> |
| 802.11a                                                                                                                                                                                                                                                                                                                                                             | Lowest               | 5500                        | 6Mbps            | 8                                      |
|                                                                                                                                                                                                                                                                                                                                                                     | Middle               | 5580                        | 6Mbps            | 8                                      |
|                                                                                                                                                                                                                                                                                                                                                                     | Highest              | 5700                        | 6Mbps            | 8                                      |
| 802.11ac-VHT20                                                                                                                                                                                                                                                                                                                                                      | Lowest               | 5500                        | MCS0             | 8                                      |
|                                                                                                                                                                                                                                                                                                                                                                     | Middle               | 5580                        | MCS0             | 8                                      |
|                                                                                                                                                                                                                                                                                                                                                                     | Highest              | 5700                        | MCS0             | 8                                      |
| 802.11ac-VHT40                                                                                                                                                                                                                                                                                                                                                      | Lowest               | 5510                        | MCS0             | 8                                      |
|                                                                                                                                                                                                                                                                                                                                                                     | Middle               | 5550                        | MCS0             | 8                                      |
|                                                                                                                                                                                                                                                                                                                                                                     | Highest              | 5670                        | MCS0             | 8                                      |
| 802.11ax-HE20                                                                                                                                                                                                                                                                                                                                                       | Lowest               | 5500                        | MCS0             | 8                                      |
|                                                                                                                                                                                                                                                                                                                                                                     | Middle               | 5580                        | MCS0             | 8                                      |
|                                                                                                                                                                                                                                                                                                                                                                     | Highest              | 5700                        | MCS0             | 8                                      |
| 802.11ax-HE40                                                                                                                                                                                                                                                                                                                                                       | Lowest               | 5510                        | MCS0             | 8                                      |
|                                                                                                                                                                                                                                                                                                                                                                     | Middle               | 5550                        | MCS0             | 8                                      |
|                                                                                                                                                                                                                                                                                                                                                                     | Highest              | 5670                        | MCS0             | 8                                      |
| <b>5725-5850 MHz Band:</b>                                                                                                                                                                                                                                                                                                                                          |                      |                             |                  |                                        |
| <b>Test Modes</b>                                                                                                                                                                                                                                                                                                                                                   | <b>Test Channels</b> | <b>Test Frequency (MHz)</b> | <b>Data rate</b> | <b>Power Level Setting<sup>#</sup></b> |
| 802.11a                                                                                                                                                                                                                                                                                                                                                             | Lowest               | 5745                        | 6Mbps            | 14                                     |
|                                                                                                                                                                                                                                                                                                                                                                     | Middle               | 5785                        | 6Mbps            | 14                                     |
|                                                                                                                                                                                                                                                                                                                                                                     | Highest              | 5825                        | 6Mbps            | 14                                     |
| 802.11ac-VHT20                                                                                                                                                                                                                                                                                                                                                      | Lowest               | 5745                        | MCS0             | 14                                     |
|                                                                                                                                                                                                                                                                                                                                                                     | Middle               | 5785                        | MCS0             | 14                                     |
|                                                                                                                                                                                                                                                                                                                                                                     | Highest              | 5825                        | MCS0             | 14                                     |
| 802.11ac-VHT40                                                                                                                                                                                                                                                                                                                                                      | Lowest               | 5755                        | MCS0             | 14                                     |
|                                                                                                                                                                                                                                                                                                                                                                     | Highest              | 5795                        | MCS0             | 14                                     |
| 802.11ax-HE20                                                                                                                                                                                                                                                                                                                                                       | Lowest               | 5745                        | MCS0             | 14                                     |
|                                                                                                                                                                                                                                                                                                                                                                     | Middle               | 5785                        | MCS0             | 14                                     |
|                                                                                                                                                                                                                                                                                                                                                                     | Highest              | 5825                        | MCS0             | 14                                     |
| 802.11ax-HE40                                                                                                                                                                                                                                                                                                                                                       | Lowest               | 5755                        | MCS0             | 14                                     |
|                                                                                                                                                                                                                                                                                                                                                                     | Highest              | 5795                        | MCS0             | 14                                     |
| Note:<br>1. The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power, Power and PSD across all data rates bandwidths, and modulations.<br>2. The n20/n40 mode was reduced test as identical parameter with ac20/ac40 mode.<br>3. For 802.11ax modes, the device not support partial RU mode. |                      |                             |                  |                                        |

**Equipment Modifications**

No modification was made to the EUT tested.

**Support Equipment List and Details**

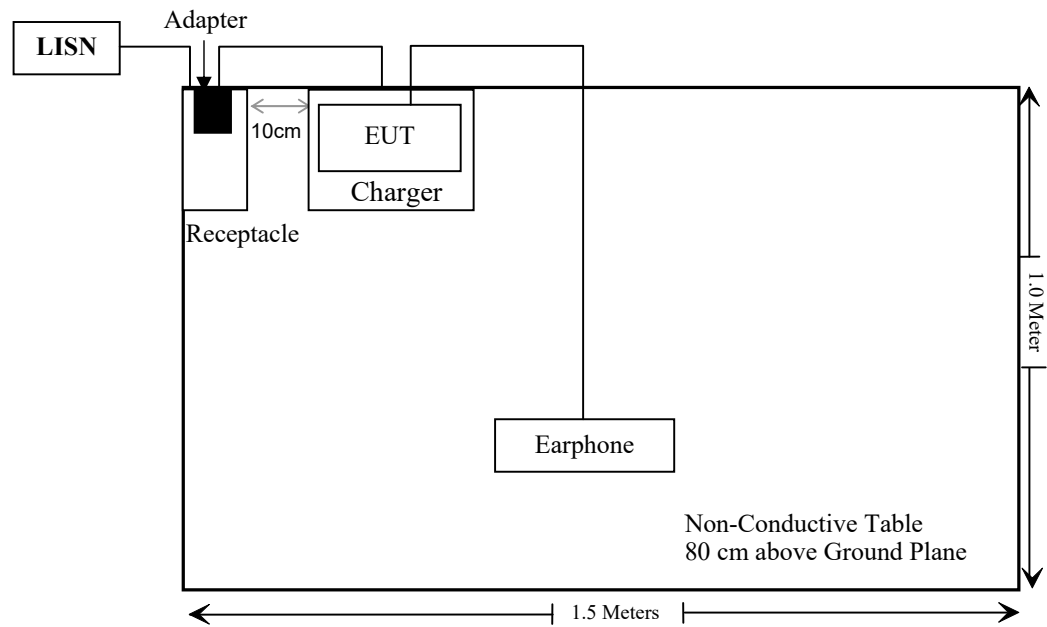
| Manufacturer                          | Description | Model       | Serial Number |
|---------------------------------------|-------------|-------------|---------------|
| Unknown                               | Receptacle  | Unknown     | Unknown       |
| Guang dong Beicom Electronics Co.,LTD | Adapter     | TN-050200E3 | Unknown       |
| Unknown                               | Earphone    | Unknown     | Unknown       |

**External I/O Cable**

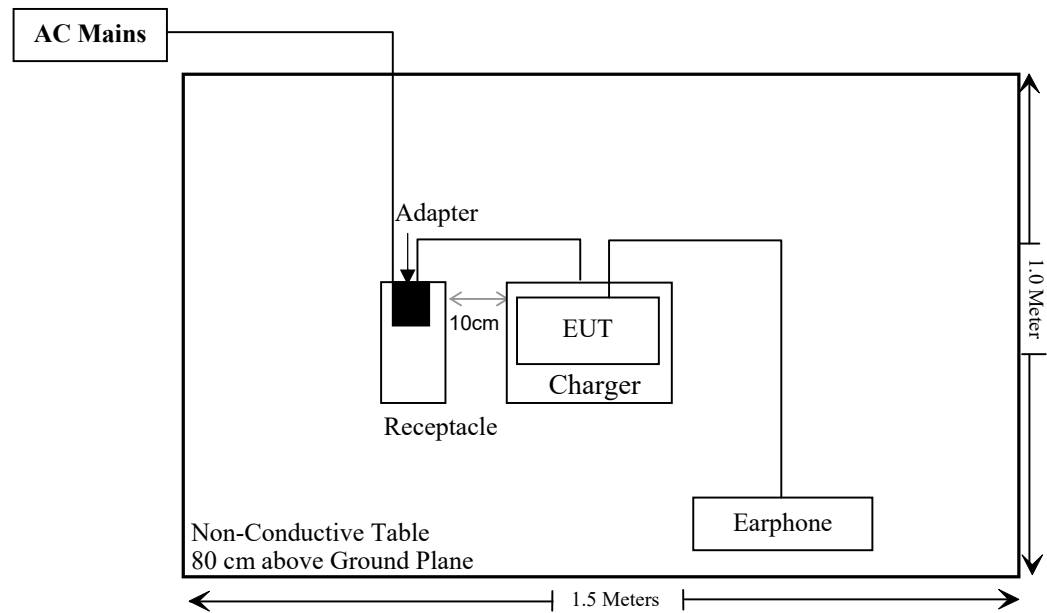
| Cable Description                   | Length (m) | From Port  | To            |
|-------------------------------------|------------|------------|---------------|
| Un-shielded Un-Detachable AC Cable  | 1.5        | Receptacle | LISN/AC Mains |
| Un-shielding Un-Detachable DC Cable | 2.0        | Adapter    | Charger       |
| Un-shielding Detachable Audio Cable | 1.2        | EUT        | Earphone      |

Block Diagram of Test Setup

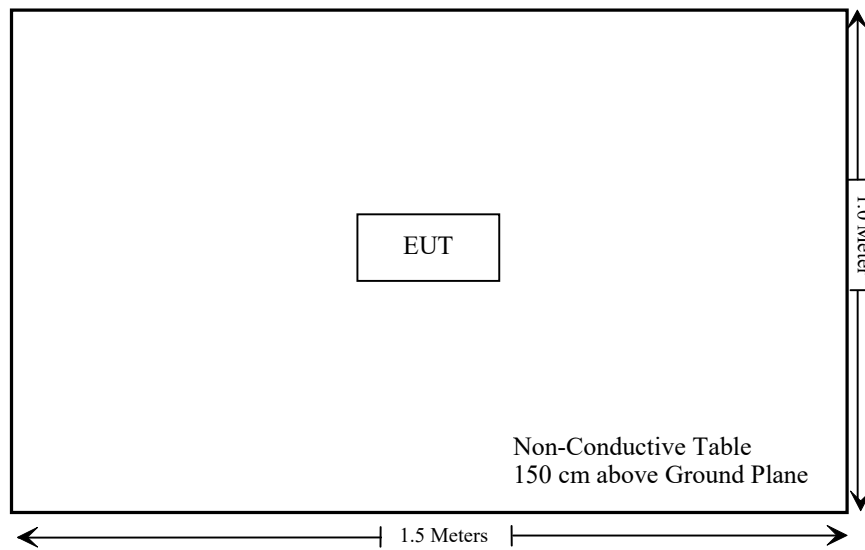
For Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



**SUMMARY OF TEST RESULTS**

| FCC Rules                       | Description of Test                      | Result         |
|---------------------------------|------------------------------------------|----------------|
| §15.203                         | Antenna Requirement                      | Compliant      |
| §15.407(b)(9)& §15.207(a)       | Conducted Emissions                      | Compliant      |
| §15.205& §15.209<br>&§15.407(b) | Undesirable Emission& Restricted Bands   | Compliant      |
| §15.407(a) (e)                  | 26 dB Emission Bandwidth & 6dB Bandwidth | Compliant      |
| §15.407(a)                      | Conducted Transmitter Output Power       | Compliant      |
| §15.407 (a)                     | Power Spectral Density                   | Compliant      |
| §15.407 (h)                     | Transmit Power Control (TPC)             | Not Applicable |
| §15.407 (h)                     | Dynamic Frequency Selection (DFS)        | Compliant*     |
| C63.10 §11.6                    | Duty Cycle                               | /              |

Compliant\*: Please refer to the DFS report 2401V67572E-RFC.

Not Applicable: For 5250-5350MHz/5470-5725MHz, the maximum EIRP is 17.99dBm≤27dBm (500mW).

**TEST EQUIPMENT LIST**

| Manufacturer                   | Description                       | Model             | Serial Number          | Calibration Date | Calibration Due Date |
|--------------------------------|-----------------------------------|-------------------|------------------------|------------------|----------------------|
| <b>Conducted Emission Test</b> |                                   |                   |                        |                  |                      |
| Rohde & Schwarz                | EMI Test Receiver                 | ESCI              | 101120                 | 2024/01/16       | 2025/01/15           |
| Rohde & Schwarz                | LISN                              | ENV216            | 101613                 | 2024/01/16       | 2025/01/15           |
| Rohde & Schwarz                | Transient Limiter                 | ESH3Z2            | DE25985                | 2024/05/21       | 2025/05/20           |
| Unknown                        | CE Cable                          | Unknown           | UF A210B-1-0720-504504 | 2024/05/21       | 2025/05/20           |
| Rohde & Schwarz                | EMC Measurement                   | EMC32             | V8.53.0                | NCR              | NCR                  |
| <b>Radiated Emission Test</b>  |                                   |                   |                        |                  |                      |
| Rohde & Schwarz                | EMI Test Receiver                 | ESR3              | 102455                 | 2024/01/16       | 2025/01/15           |
| Sonoma instrument              | Pre-amplifier                     | 310 N             | 186238                 | 2024/05/21       | 2025/05/20           |
| Sunol Sciences                 | Broadband Antenna                 | JB1               | A040904-1              | 2023/07/20       | 2026/07/19           |
| Unknown                        | Cable                             | Chamber A Cable 1 | N/A                    | 2024/06/18       | 2025/06/17           |
| Unknown                        | Cable                             | XH500C            | J-10M-A                | 2024/06/18       | 2025/06/17           |
| BACL                           | Active Loop Antenna               | 1313-1A           | 4031911                | 2024/05/14       | 2027/05/13           |
| Audix                          | EMI Test software                 | E3                | 19821b(V9)             | NCR              | NCR                  |
| Rohde & Schwarz                | Spectrum Analyzer                 | FSV40             | 101605                 | 2024/03/27       | 2025/03/26           |
| COM-POWER                      | Pre-amplifier                     | PA-122            | 181919                 | 2024/06/18       | 2025/06/17           |
| Schwarzbeck                    | Horn Antenna                      | BBHA9120D(1201)   | 1143                   | 2023/07/26       | 2026/07/25           |
| Unknown                        | RF Cable                          | KMSE              | 735                    | 2024/06/18       | 2025/06/17           |
| Unknown                        | RF Cable                          | UFA147            | 219661                 | 2024/06/18       | 2025/06/17           |
| Unknown                        | RF Cable                          | XH750A-N          | J-10M                  | 2024/06/18       | 2025/06/17           |
| JD                             | Multiplex Switch Test Control Set | DT7220FSU         | DQ77926                | 2024/06/18       | 2025/06/17           |
| A.H.System                     | Pre-amplifier                     | PAM-1840VH        | 190                    | 2024/06/18       | 2025/06/17           |
| Electro-Mechanics Co           | Horn Antenna                      | 3116              | 9510-2270              | 2023/09/18       | 2026/09/17           |
| Audix                          | EMI Test software                 | E3                | 191218(V9)             | NCR              | NCR                  |

| Manufacturer      | Description                 | Model    | Serial Number | Calibration Date | Calibration Due Date |
|-------------------|-----------------------------|----------|---------------|------------------|----------------------|
| RF Conducted Test |                             |          |               |                  |                      |
| Tonscend          | RF control Unit             | JS0806-2 | 19D8060154    | 2024/08/06       | 2025/08/05           |
| Rohde &Schwarz    | Spectrum Analyzer           | FSV40    | 101473        | 2024/01/16       | 2025/01/15           |
| ANRITSU           | Microwave peak power sensor | MA24418A | 12622         | 2024/05/21       | 2025/05/20           |
| Narda             | 20dB Attenuator             | 99899    | 0107          | 2024/06/27       | 2025/06/26           |

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



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## **FCC §15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

According to FCC § 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 use of a standard antenna jack or electrical connector is prohibited.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **Antenna Connector Construction**

The EUT has one internal antenna which was permanently attached, and the maximum antenna gain<sup>#</sup> is 1.51dBi, fulfill the requirement of this section. Please refer to the EUT photos.

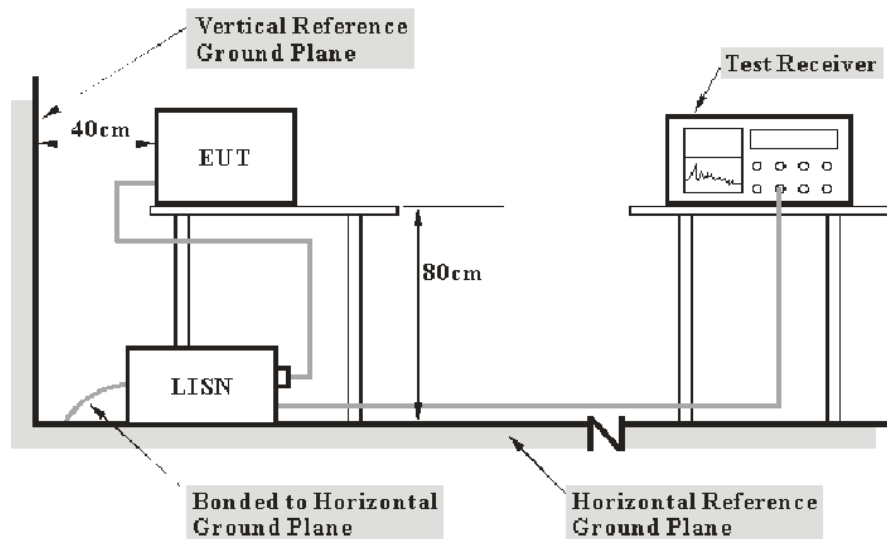
**Result: Compliant**

## FCC §15.407 (b) (6) §15.207 (a) - CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207, §15.407(b) (6)

### EUT Setup



Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

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  | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz  |

### Test Procedure

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

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

All data was recorded in the Quasi-peak and Average detection mode.

## Corrected Factor & Margin Calculation

The Corrected Factor (Corr.) is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor (Corr.)} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

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

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

## Test Data

### Environmental Conditions

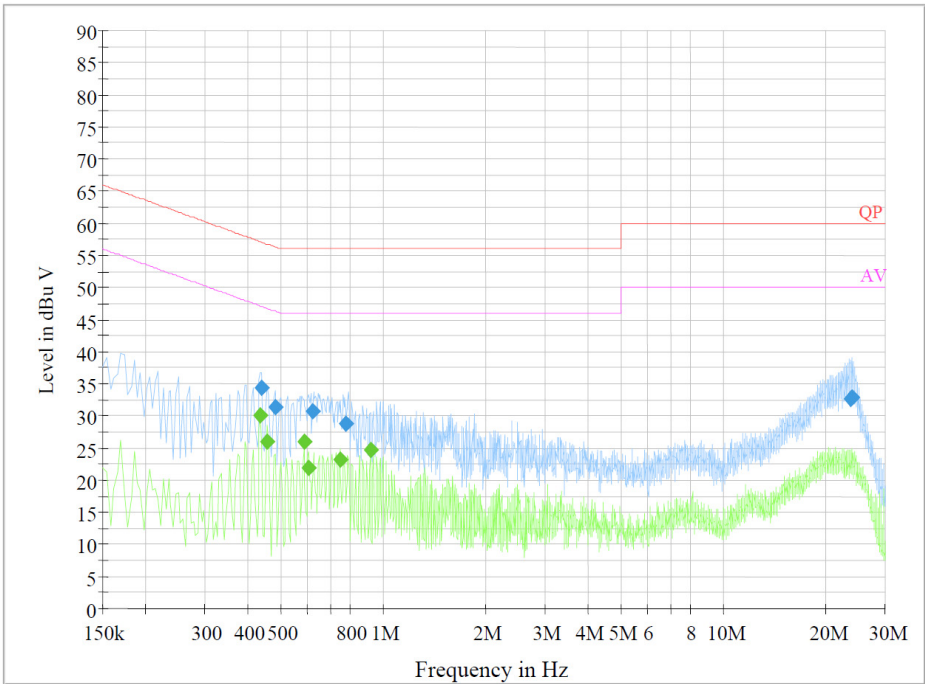
|                    |           |
|--------------------|-----------|
| Temperature:       | 23.1 °C   |
| Relative Humidity: | 52 %      |
| ATM Pressure:      | 101.2 kPa |

*The testing was performed by Macy Shi on 2024-12-13.*

*EUT operation mode: Transmitting (Maximum output power mode, 802.11 ac40 5755MHz)*

AC 120V/60 Hz, Line

|              |                     |                           |                       |
|--------------|---------------------|---------------------------|-----------------------|
| Project No.: | 2401V67572E-RF      | Environmental Conditions: | 23.1°C 52%RH 101.2kPa |
| EUT Number:  | 2PBE-1              | Test By:                  | macy_she              |
| Test Mode:   | 802.11 ac40 5755MHz | Date:                     | 2024.12.13            |



Final Result 1

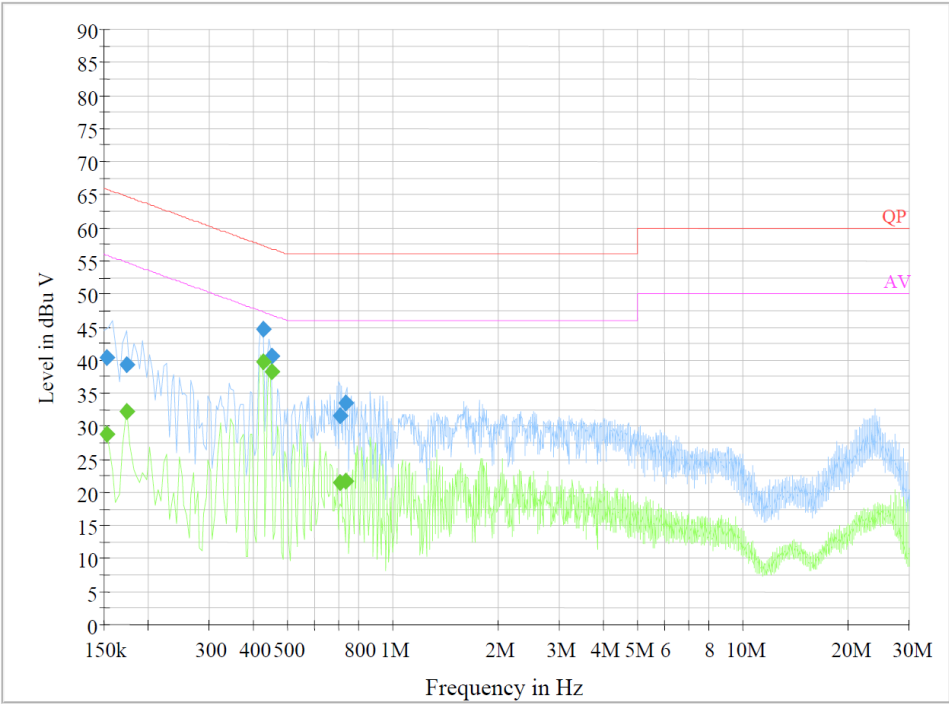
| Frequency (MHz) | Quasi Peak (dB $\mu$ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|-----------------|------|------------|-------------|--------------------|
| 0.439370        | 34.3                    | 9.000           | L1   | 20.8       | 22.8        | 57.1               |
| 0.482770        | 31.4                    | 9.000           | L1   | 20.8       | 24.9        | 56.3               |
| 0.620610        | 30.8                    | 9.000           | L1   | 20.8       | 25.2        | 56.0               |
| 0.782090        | 28.7                    | 9.000           | L1   | 20.9       | 27.3        | 56.0               |
| 23.850030       | 32.6                    | 9.000           | L1   | 20.8       | 27.4        | 60.0               |
| 23.957230       | 32.8                    | 9.000           | L1   | 20.8       | 27.2        | 60.0               |

Final Result 2

| Frequency (MHz) | Average (dB $\mu$ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|-----------------|------|------------|-------------|--------------------|
| 0.438000        | 30.1                 | 9.000           | L1   | 20.8       | 17.0        | 47.1               |
| 0.458000        | 26.0                 | 9.000           | L1   | 20.8       | 20.7        | 46.7               |
| 0.586000        | 25.9                 | 9.000           | L1   | 20.8       | 20.1        | 46.0               |
| 0.606000        | 21.9                 | 9.000           | L1   | 20.8       | 24.1        | 46.0               |
| 0.750000        | 23.1                 | 9.000           | L1   | 20.9       | 22.9        | 46.0               |
| 0.918000        | 24.7                 | 9.000           | L1   | 21.0       | 21.3        | 46.0               |

AC 120V/60 Hz, Neutral

|              |                     |                           |                       |
|--------------|---------------------|---------------------------|-----------------------|
| Project No.: | 2401V67572E-RF      | Environmental Conditions: | 23.1°C 52%RH 101.2kPa |
| EUT Number:  | 2PBE-1              | Test By:                  | Macy - shk            |
| Test Mode:   | 802.11 ac40 5755MHz | Date:                     | 2024.12.13            |



Final Result 1

| Frequency (MHz) | Quasi Peak (dB $\mu$ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|-------------------------|-----------------|------|------------|-------------|--------------------|
| 0.153500        | 40.3                    | 9.000           | N    | 21.0       | 25.5        | 65.8               |
| 0.173500        | 39.3                    | 9.000           | N    | 20.9       | 25.5        | 64.8               |
| 0.427670        | 44.7                    | 9.000           | N    | 20.7       | 12.6        | 57.3               |
| 0.451310        | 40.6                    | 9.000           | N    | 20.7       | 16.3        | 56.9               |
| 0.707410        | 31.7                    | 9.000           | N    | 20.6       | 24.3        | 56.0               |
| 0.734870        | 33.5                    | 9.000           | N    | 20.6       | 22.5        | 56.0               |

Final Result 2

| Frequency (MHz) | Average (dB $\mu$ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|-----------------|------|------------|-------------|--------------------|
| 0.153500        | 28.7                 | 9.000           | N    | 21.0       | 27.1        | 55.8               |
| 0.173500        | 32.3                 | 9.000           | N    | 20.9       | 22.5        | 54.8               |
| 0.427670        | 39.8                 | 9.000           | N    | 20.7       | 7.5         | 47.3               |
| 0.451310        | 38.3                 | 9.000           | N    | 20.7       | 8.6         | 46.9               |
| 0.707410        | 21.5                 | 9.000           | N    | 20.6       | 24.5        | 46.0               |
| 0.734870        | 21.8                 | 9.000           | N    | 20.6       | 24.2        | 46.0               |

## §15.205 & §15.209 & §15.407(B) - UNDESIRABLE EMISSION

### Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

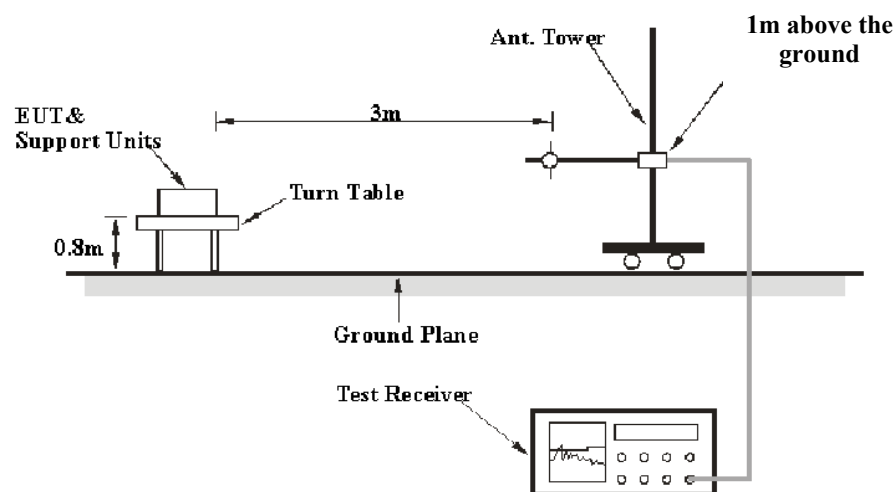
(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

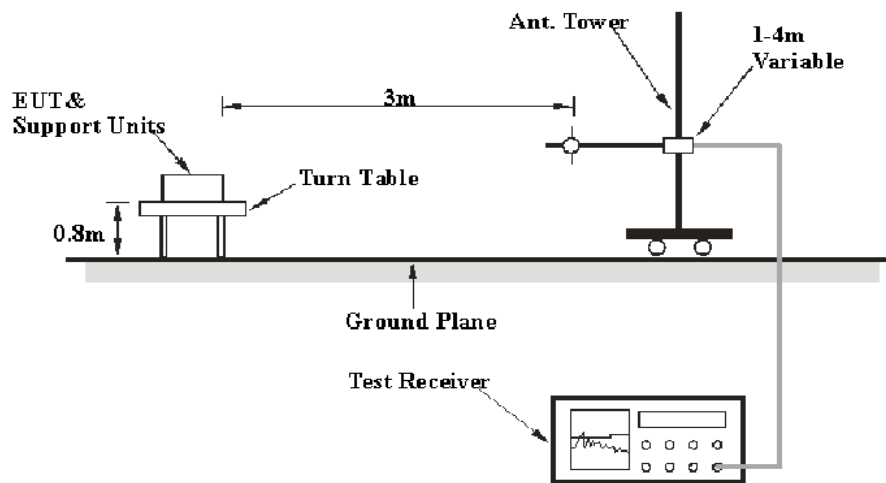
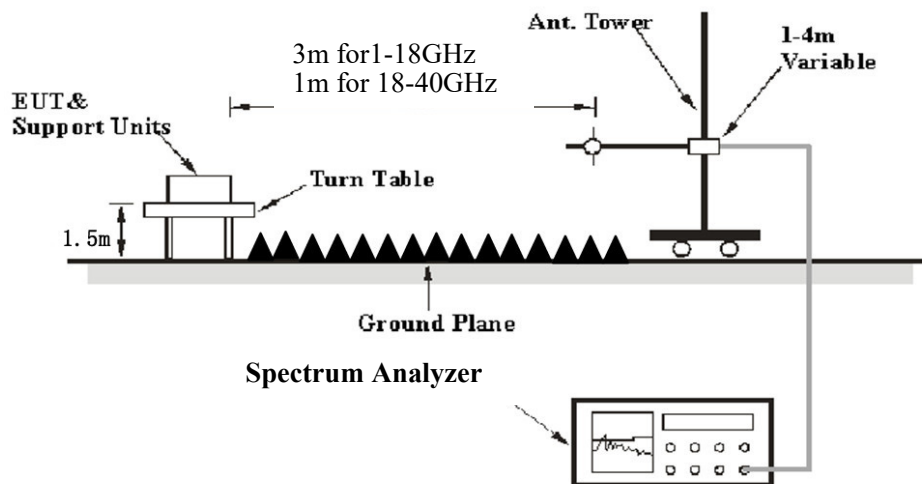
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
  - (i) All emissions shall be limited to a level of  $-27$  dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

### EUT Setup

9 kHz-30MHz:



**30MHz-1GHz:****Above 1 GHz:**

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

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

## EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 9 kHz – 150 kHz   | /       | /         | 200 Hz  | QP          |
|                   | 300 Hz  | 1 kHz     | /       | PK          |
| 150 kHz – 30 MHz  | /       | /         | 9 kHz   | QP          |
|                   | 10 kHz  | 30 kHz    | /       | PK          |
| 30 MHz – 1000 MHz | /       | /         | 120 kHz | QP          |
|                   | 100 kHz | 300 kHz   | /       | PK          |

1-40GHz:

Pre-scan

| Measurement | Duty cycle | RBW  | Video B/W                   |
|-------------|------------|------|-----------------------------|
| PK          | Any        | 1MHz | 3 MHz                       |
| AV          | >98%       | 1MHz | 5 kHz                       |
|             | <98%       | 1MHz | ≥1/Ton, not less than 5 kHz |

Final measurement for emission identified during pre-scan

| Measurement | Duty cycle | RBW  | Video B/W |
|-------------|------------|------|-----------|
| PK          | Any        | 1MHz | 3 MHz     |
| AV          | >98%       | 1MHz | 10 Hz     |
|             | <98%       | 1MHz | ≥1/Ton    |

Note: Ton is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

## Test Procedure

### Radiated Spurious Emission

During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.



All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

All emissions under the average limit and under the noise floor have not recorded in the report.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left( \frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}} \right)$$

where

|                        |                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------|
| $E_{\text{SpecLimit}}$ | is the field strength of the emission at the distance specified by the limit, in dB $\mu$ V/m |
| $E_{\text{Meas}}$      | is the field strength of the emission at the measurement distance, in dB $\mu$ V/m            |
| $d_{\text{Meas}}$      | is the measurement distance, in m                                                             |
| $d_{\text{SpecLimit}}$ | is the distance specified by the limit, in m                                                  |

So the extrapolation factor of 1m is  $20 \cdot \log(1/3) = -9.5$  dB, for 18-40GHz range, the limit of 1m distance was added by 9.5dB from limit of 3m to compared with the result measurement at 1m distance.

### Factor & Over Limit/Margin Calculation

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

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

$$\begin{aligned} \text{Over Limit} &= \text{Level} - \text{Limit}; \text{Margin} = \text{Limit} - \text{Corrected Amplitude} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

**Test Data****Environmental Conditions**

|                           |         |
|---------------------------|---------|
| <b>Temperature:</b>       | 25 °C   |
| <b>Relative Humidity:</b> | 50~54 % |
| <b>ATM Pressure:</b>      | 101 kPa |

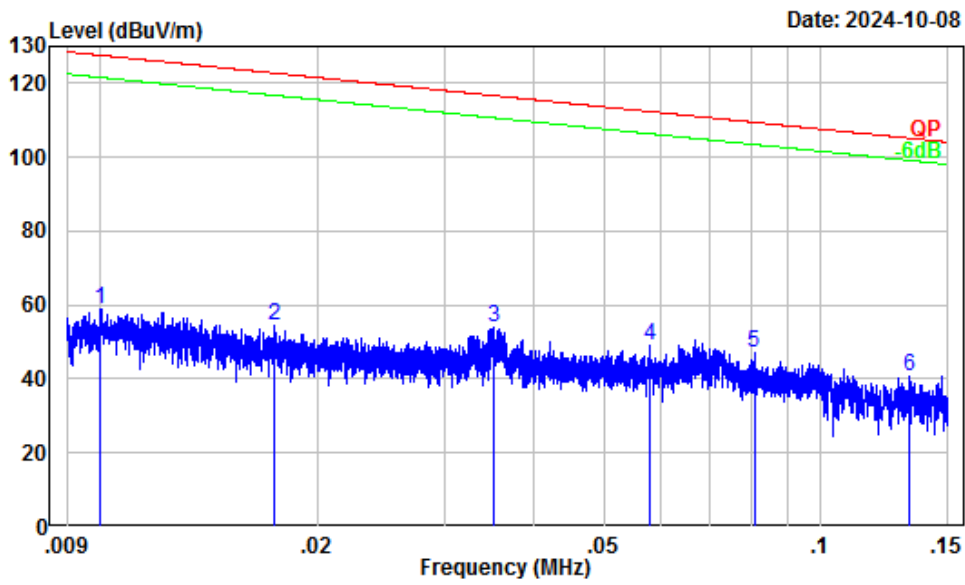
*The testing was performed by Carl Zhu on 2024-10-08 for below 1GHz and Dylan Yang from 2024-08-22 to 2024-08-28 for above 1GHz.*

*EUT operation mode: Transmitting*

*Note: Pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation was recorded.*

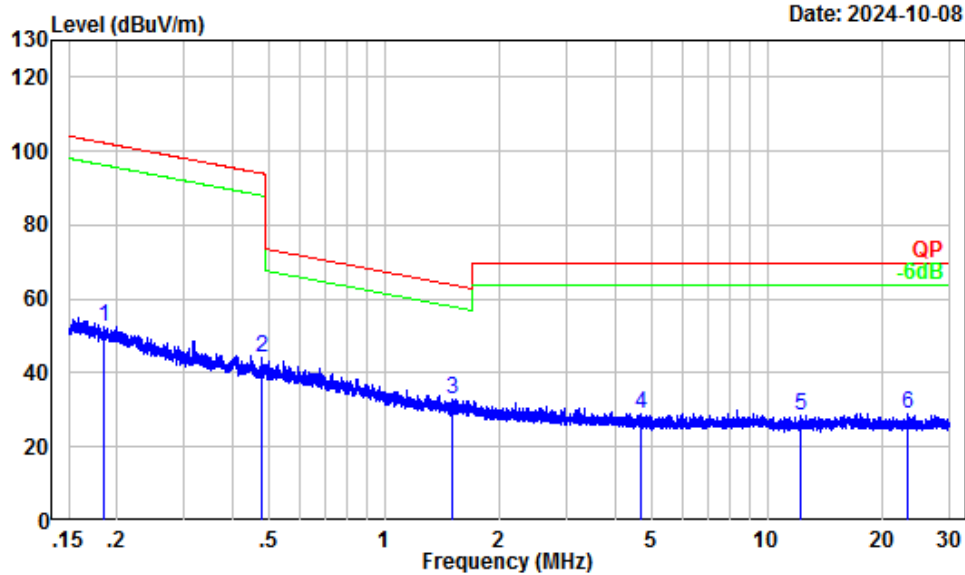
**9 kHz-30MHz:** (Maximum output power mode, 802.11 ac40 5755MHz; Worst case is parallel)

Note: When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.



Site : Chamber A  
Condition : 3m  
Project Number: 2401V67572E-RF  
Test Mode : Transmitting  
Tester : Carl Zhu

|   | Freq | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz  | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 0.01 | 32.29  | 26.77         | 59.06  | 127.58        | -68.52        | Peak   |
| 2 | 0.02 | 30.89  | 23.78         | 54.67  | 122.77        | -68.10        | Peak   |
| 3 | 0.04 | 27.97  | 26.15         | 54.12  | 116.70        | -62.58        | Peak   |
| 4 | 0.06 | 25.62  | 23.66         | 49.28  | 112.37        | -63.09        | Peak   |
| 5 | 0.08 | 23.34  | 23.57         | 46.91  | 109.46        | -62.55        | Peak   |
| 6 | 0.13 | 20.06  | 20.80         | 40.86  | 105.14        | -64.28        | Peak   |

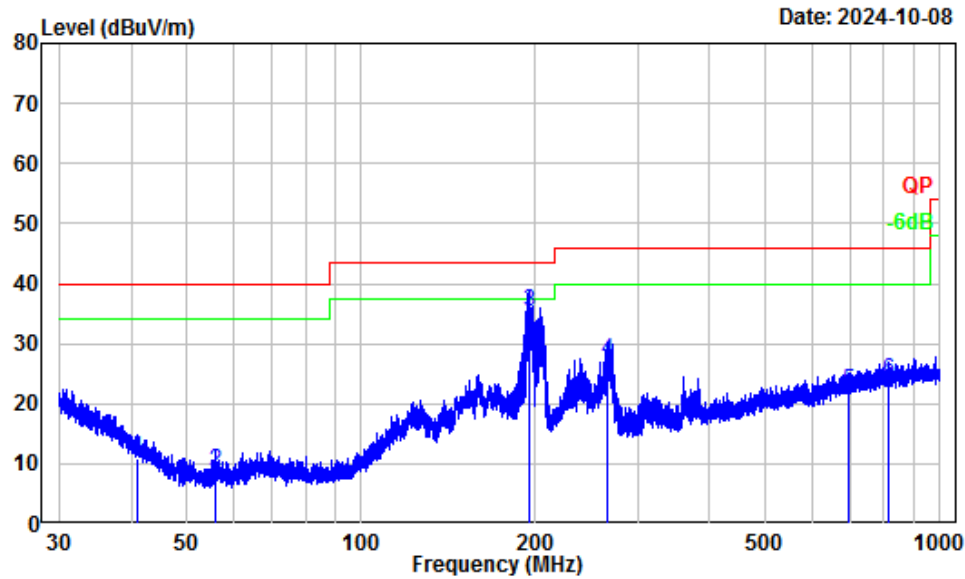


Site : Chamber A  
 Condition : 3m  
 Project Number: 2401V67572E-RF  
 Test Mode : Transmitting  
 Tester : Carl Zhu

|   | Freq  | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|-------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz   | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 0.19  | 16.94  | 35.61         | 52.55  | 102.22        | -49.67        | Peak   |
| 2 | 0.48  | 6.79   | 37.43         | 44.22  | 93.99         | -49.77        | Peak   |
| 3 | 1.51  | -0.21  | 33.00         | 32.79  | 63.85         | -31.06        | Peak   |
| 4 | 4.66  | -2.77  | 31.89         | 29.12  | 69.54         | -40.42        | Peak   |
| 5 | 12.18 | -2.79  | 31.31         | 28.52  | 69.54         | -41.02        | Peak   |
| 6 | 23.20 | -3.10  | 32.17         | 29.07  | 69.54         | -40.47        | Peak   |

30 MHz–1 GHz: (Maximum output power mode, 802.11 ac/40 5755MHz)

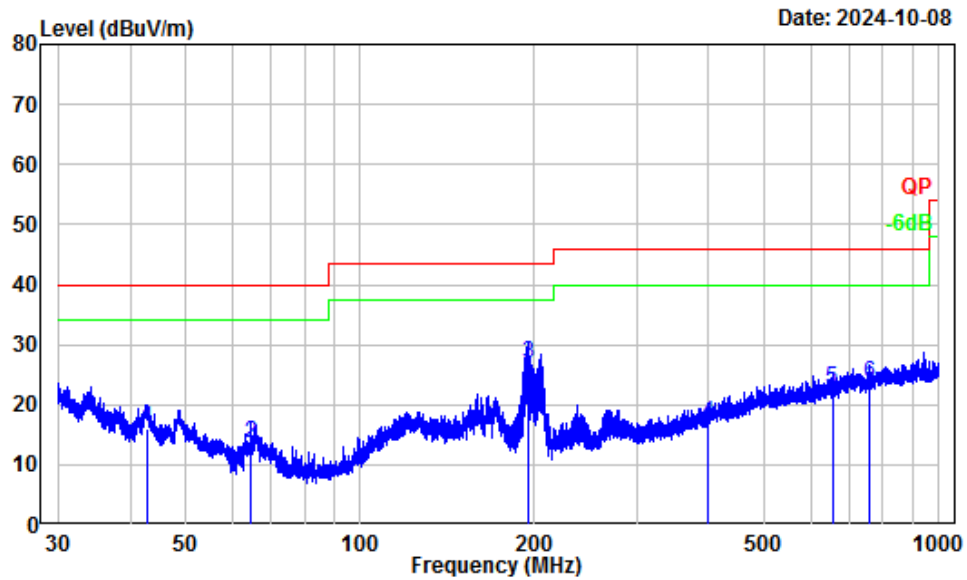
Horizontal



Site : Chamber A  
Condition : 3m Horizontal  
Project Number: 2401V67572E-RF  
Test Mode : Transmitting  
Tester : Carl Zhu

| Freq Factor |        | Read Level | Level  | Limit Line | Over Limit | Remark    |
|-------------|--------|------------|--------|------------|------------|-----------|
| MHz         | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |           |
| 1           | 41.02  | -13.10     | 23.96  | 10.86      | 40.00      | -29.14 QP |
| 2           | 56.00  | -18.32     | 27.16  | 8.84       | 40.00      | -31.16 QP |
| 3           | 195.48 | -13.57     | 48.98  | 35.41      | 43.50      | -8.09 QP  |
| 4           | 267.08 | -12.09     | 39.21  | 27.12      | 46.00      | -18.88 QP |
| 5           | 694.11 | -3.56      | 25.69  | 22.13      | 46.00      | -23.87 QP |
| 6           | 814.18 | -2.03      | 25.81  | 23.78      | 46.00      | -22.22 QP |

## Vertical



Site : Chamber A  
Condition : 3m Vertical  
Project Number: 2401V67572E-RF  
Test Mode : Transmitting  
Tester : Carl Zhu

|   | Freq   | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|--------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz    | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 42.82  | -14.46 | 30.50         | 16.04  | 40.00         | -23.96        | QP     |
| 2 | 64.63  | -18.00 | 31.64         | 13.64  | 40.00         | -26.36        | QP     |
| 3 | 194.97 | -13.64 | 40.63         | 26.99  | 43.50         | -16.51        | QP     |
| 4 | 399.56 | -8.43  | 25.45         | 17.02  | 46.00         | -28.98        | QP     |
| 5 | 654.23 | -4.04  | 26.59         | 22.55  | 46.00         | -23.45        | QP     |
| 6 | 760.70 | -2.66  | 26.19         | 23.53  | 46.00         | -22.47        | QP     |

**Above 1GHz:****5150-5250 MHz:**

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11a            |                   |       |                |                  |                                    |                   |                |
| 5180MHz            |                   |       |                |                  |                                    |                   |                |
| 5148.70            | 65.37             | PK    | H              | 2.71             | 68.08                              | 74                | -5.92          |
| 5148.70            | 46.28             | AV    | H              | 2.71             | 48.99                              | 54                | -5.01          |
| 5149.68            | 63.49             | PK    | V              | 2.71             | 66.20                              | 74                | -7.80          |
| 5149.68            | 45.75             | AV    | V              | 2.71             | 48.46                              | 54                | -5.54          |
| 10360.00           | 47.85             | PK    | H              | 13.07            | 60.92                              | 68.2              | -7.28          |
| 10360.00           | 48.59             | PK    | V              | 13.07            | 61.66                              | 68.2              | -6.54          |
| 5200MHz            |                   |       |                |                  |                                    |                   |                |
| 10400.00           | 47.54             | PK    | H              | 13.12            | 60.66                              | 68.2              | -7.54          |
| 10400.00           | 48.33             | PK    | V              | 13.12            | 61.45                              | 68.2              | -6.75          |
| 5240MHz            |                   |       |                |                  |                                    |                   |                |
| 5353.90            | 55.54             | PK    | H              | 3.07             | 58.61                              | 74                | -15.39         |
| 5353.90            | 41.75             | AV    | H              | 3.07             | 44.82                              | 54                | -9.18          |
| 5351.12            | 55.26             | PK    | V              | 3.07             | 58.33                              | 74                | -15.67         |
| 5351.12            | 41.33             | AV    | V              | 3.07             | 44.40                              | 54                | -9.60          |
| 10480.00           | 47.26             | PK    | H              | 13.07            | 60.33                              | 68.2              | -7.87          |
| 10480.00           | 48.07             | PK    | V              | 13.07            | 61.14                              | 68.2              | -7.06          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ac20         |                   |       |                |                  |                                    |                   |                |
| 5180MHz            |                   |       |                |                  |                                    |                   |                |
| 5149.89            | 64.38             | PK    | H              | 2.71             | 67.09                              | 74                | -6.91          |
| 5149.89            | 47.15             | AV    | H              | 2.71             | 49.86                              | 54                | -4.14          |
| 5149.46            | 62.27             | PK    | V              | 2.71             | 64.98                              | 74                | -9.02          |
| 5149.46            | 46.43             | AV    | V              | 2.71             | 49.14                              | 54                | -4.86          |
| 10360.00           | 47.35             | PK    | H              | 13.07            | 60.42                              | 68.2              | -7.78          |
| 10360.00           | 48.18             | PK    | V              | 13.07            | 61.25                              | 68.2              | -6.95          |
| 5200MHz            |                   |       |                |                  |                                    |                   |                |
| 10400.00           | 47.06             | PK    | H              | 13.12            | 60.18                              | 68.2              | -8.02          |
| 10400.00           | 47.94             | PK    | V              | 13.12            | 61.06                              | 68.2              | -7.14          |
| 5240MHz            |                   |       |                |                  |                                    |                   |                |
| 5350.56            | 55.39             | PK    | H              | 3.07             | 58.46                              | 74                | -15.54         |
| 5350.56            | 41.66             | AV    | H              | 3.07             | 44.73                              | 54                | -9.27          |
| 5351.27            | 55.14             | PK    | V              | 3.07             | 58.21                              | 74                | -15.79         |
| 5351.27            | 41.28             | AV    | V              | 3.07             | 44.35                              | 54                | -9.65          |
| 10480.00           | 46.82             | PK    | H              | 13.07            | 59.89                              | 68.2              | -8.31          |
| 10480.00           | 47.57             | PK    | V              | 13.07            | 60.64                              | 68.2              | -7.56          |



| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ac40         |                   |       |                |                  |                                    |                   |                |
| 5190MHz            |                   |       |                |                  |                                    |                   |                |
| 5148.13            | 60.95             | PK    | H              | 2.70             | 63.65                              | 74                | -10.35         |
| 5150.00            | 48.26             | AV    | H              | 2.71             | 50.97                              | 54                | -3.03          |
| 5150.00            | 59.68             | PK    | V              | 2.71             | 62.39                              | 74                | -11.61         |
| 5150.00            | 45.48             | AV    | V              | 2.71             | 48.19                              | 54                | -5.81          |
| 10380.00           | 45.84             | PK    | H              | 13.09            | 58.93                              | 68.2              | -9.27          |
| 10380.00           | 46.67             | PK    | V              | 13.09            | 59.76                              | 68.2              | -8.44          |
| 5230MHz            |                   |       |                |                  |                                    |                   |                |
| 5351.19            | 55.68             | PK    | H              | 3.07             | 58.75                              | 74                | -15.25         |
| 5351.19            | 41.93             | AV    | H              | 3.07             | 45.00                              | 54                | -9.00          |
| 5352.36            | 55.37             | PK    | V              | 3.07             | 58.44                              | 74                | -15.56         |
| 5352.36            | 41.49             | AV    | V              | 3.07             | 44.56                              | 54                | -9.44          |
| 10460.00           | 45.39             | PK    | H              | 13.09            | 58.48                              | 68.2              | -9.72          |
| 10460.00           | 46.23             | PK    | V              | 13.09            | 59.32                              | 68.2              | -8.88          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ax20         |                   |       |                |                  |                                    |                   |                |
| 5180MHz            |                   |       |                |                  |                                    |                   |                |
| 5149.25            | 63.93             | PK    | H              | 2.71             | 66.64                              | 74                | -7.36          |
| 5149.25            | 48.22             | AV    | H              | 2.71             | 50.93                              | 54                | -3.07          |
| 5149.48            | 62.37             | PK    | V              | 2.71             | 65.08                              | 74                | -8.92          |
| 5149.48            | 47.48             | AV    | V              | 2.71             | 50.19                              | 54                | -3.81          |
| 10360.00           | 46.58             | PK    | H              | 13.07            | 59.65                              | 68.2              | -8.55          |
| 10360.00           | 47.23             | PK    | V              | 13.07            | 60.30                              | 68.2              | -7.90          |
| 5200MHz            |                   |       |                |                  |                                    |                   |                |
| 10400.00           | 46.17             | PK    | H              | 13.12            | 59.29                              | 68.2              | -8.91          |
| 10400.00           | 46.94             | PK    | V              | 13.12            | 60.06                              | 68.2              | -8.14          |
| 5240MHz            |                   |       |                |                  |                                    |                   |                |
| 5354.70            | 55.83             | PK    | H              | 3.07             | 58.90                              | 74                | -15.10         |
| 5354.70            | 41.59             | AV    | H              | 3.07             | 44.66                              | 54                | -9.34          |
| 5353.27            | 55.41             | PK    | V              | 3.07             | 58.48                              | 74                | -15.52         |
| 5353.27            | 41.26             | AV    | V              | 3.07             | 44.33                              | 54                | -9.67          |
| 10480.00           | 45.86             | PK    | H              | 13.07            | 58.93                              | 68.2              | -9.27          |
| 10480.00           | 46.69             | PK    | V              | 13.07            | 59.76                              | 68.2              | -8.44          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ax40         |                   |       |                |                  |                                    |                   |                |
| 5190MHz            |                   |       |                |                  |                                    |                   |                |
| 5149.67            | 65.38             | PK    | H              | 2.71             | 68.09                              | 74                | -5.91          |
| 5149.67            | 48.21             | AV    | H              | 2.71             | 50.92                              | 54                | -3.08          |
| 5149.89            | 63.57             | PK    | V              | 2.71             | 66.28                              | 74                | -7.72          |
| 5149.89            | 47.45             | AV    | V              | 2.71             | 50.16                              | 54                | -3.84          |
| 10380.00           | 45.55             | PK    | H              | 13.09            | 58.64                              | 68.2              | -9.56          |
| 10380.00           | 46.34             | PK    | V              | 13.09            | 59.43                              | 68.2              | -8.77          |
| 5230MHz            |                   |       |                |                  |                                    |                   |                |
| 5356.77            | 55.54             | PK    | H              | 3.07             | 58.61                              | 74                | -15.39         |
| 5356.77            | 41.61             | AV    | H              | 3.07             | 44.68                              | 54                | -9.32          |
| 5352.63            | 55.25             | PK    | V              | 3.07             | 58.32                              | 74                | -15.68         |
| 5352.63            | 41.32             | AV    | V              | 3.07             | 44.39                              | 54                | -9.61          |
| 10460.00           | 45.18             | PK    | H              | 13.09            | 58.27                              | 68.2              | -9.93          |
| 10460.00           | 46.06             | PK    | V              | 13.09            | 59.15                              | 68.2              | -9.05          |

**5250-5350MHz:**

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11a            |                   |       |                |                  |                                    |                   |                |
| 5260MHz            |                   |       |                |                  |                                    |                   |                |
| 5070.01            | 55.42             | PK    | H              | 2.97             | 58.39                              | 74                | -15.61         |
| 5070.01            | 41.53             | AV    | H              | 2.97             | 44.50                              | 54                | -9.50          |
| 5072.83            | 55.15             | PK    | V              | 2.97             | 58.12                              | 74                | -15.88         |
| 5072.83            | 41.21             | AV    | V              | 2.97             | 44.18                              | 54                | -9.82          |
| 10520.00           | 47.21             | PK    | H              | 13.05            | 60.26                              | 68.2              | -7.94          |
| 10520.00           | 48.05             | PK    | V              | 13.05            | 61.10                              | 68.2              | -7.10          |
| 5280MHz            |                   |       |                |                  |                                    |                   |                |
| 10560.00           | 47.42             | PK    | H              | 13.02            | 60.44                              | 68.2              | -7.76          |
| 10560.00           | 48.23             | PK    | V              | 13.02            | 61.25                              | 68.2              | -6.95          |
| 5320MHz            |                   |       |                |                  |                                    |                   |                |
| 5350.24            | 67.17             | PK    | H              | 3.07             | 70.24                              | 74                | -3.76          |
| 5350.24            | 47.29             | AV    | H              | 3.07             | 50.36                              | 54                | -3.64          |
| 5350.40            | 65.04             | PK    | V              | 3.07             | 68.11                              | 74                | -5.89          |
| 5350.40            | 46.68             | AV    | V              | 3.07             | 49.75                              | 54                | -4.25          |
| 10640.00           | 47.69             | PK    | H              | 13.19            | 60.88                              | 74                | -13.12         |
| 10640.00           | 35.37             | AV    | H              | 13.19            | 48.56                              | 54                | -5.44          |
| 10640.00           | 48.48             | PK    | V              | 13.19            | 61.67                              | 74                | -12.33         |
| 10640.00           | 36.20             | AV    | V              | 13.19            | 49.39                              | 54                | -4.61          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ac20         |                   |       |                |                  |                                    |                   |                |
| 5260MHz            |                   |       |                |                  |                                    |                   |                |
| 5072.18            | 55.29             | PK    | H              | 2.97             | 58.26                              | 74                | -15.74         |
| 5072.18            | 41.40             | AV    | H              | 2.97             | 44.37                              | 54                | -9.63          |
| 5069.75            | 55.06             | PK    | V              | 2.97             | 58.03                              | 74                | -15.97         |
| 5069.75            | 41.14             | AV    | V              | 2.97             | 44.11                              | 54                | -9.89          |
| 10520.00           | 47.47             | PK    | H              | 13.05            | 60.52                              | 68.2              | -7.68          |
| 10520.00           | 48.35             | PK    | V              | 13.05            | 61.40                              | 68.2              | -6.80          |
| 5280MHz            |                   |       |                |                  |                                    |                   |                |
| 10560.00           | 47.21             | PK    | H              | 13.02            | 60.23                              | 68.2              | -7.97          |
| 10560.00           | 48.04             | PK    | V              | 13.02            | 61.06                              | 68.2              | -7.14          |
| 5320MHz            |                   |       |                |                  |                                    |                   |                |
| 5350.56            | 67.58             | PK    | H              | 3.07             | 70.65                              | 74                | -3.35          |
| 5350.56            | 46.64             | AV    | H              | 3.07             | 49.71                              | 54                | -4.29          |
| 5350.89            | 65.45             | PK    | V              | 3.07             | 68.52                              | 74                | -5.48          |
| 5350.89            | 45.96             | AV    | V              | 3.07             | 49.03                              | 54                | -4.97          |
| 10640.00           | 47.02             | PK    | H              | 13.19            | 60.21                              | 74                | -13.79         |
| 10640.00           | 34.91             | AV    | H              | 13.19            | 48.10                              | 54                | -5.90          |
| 10640.00           | 47.88             | PK    | V              | 13.19            | 61.07                              | 74                | -12.93         |
| 10640.00           | 35.63             | AV    | V              | 13.19            | 48.82                              | 54                | -5.18          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ac40         |                   |       |                |                  |                                    |                   |                |
| 5270MHz            |                   |       |                |                  |                                    |                   |                |
| 5068.35            | 54.94             | PK    | H              | 2.97             | 57.91                              | 74                | -16.09         |
| 5068.35            | 41.15             | AV    | H              | 2.97             | 44.12                              | 54                | -9.88          |
| 5065.94            | 54.71             | PK    | V              | 2.97             | 57.68                              | 74                | -16.32         |
| 5065.94            | 40.82             | AV    | V              | 2.97             | 43.79                              | 54                | -10.21         |
| 10540.00           | 45.58             | PK    | H              | 13.03            | 58.61                              | 68.2              | -9.59          |
| 10540.00           | 46.32             | PK    | V              | 13.03            | 59.35                              | 68.2              | -8.85          |
| 5310MHz            |                   |       |                |                  |                                    |                   |                |
| 5350.47            | 67.45             | PK    | H              | 3.07             | 70.52                              | 74                | -3.48          |
| 5350.47            | 45.78             | AV    | H              | 3.07             | 48.85                              | 54                | -5.15          |
| 5350.68            | 66.32             | PK    | V              | 3.07             | 69.39                              | 74                | -4.61          |
| 5350.68            | 45.09             | AV    | V              | 3.07             | 48.16                              | 54                | -5.84          |
| 10620.00           | 46.03             | PK    | H              | 13.09            | 59.12                              | 74                | -14.88         |
| 10620.00           | 32.57             | AV    | H              | 13.09            | 45.66                              | 54                | -8.34          |
| 10620.00           | 46.76             | PK    | V              | 13.09            | 59.85                              | 74                | -14.15         |
| 10620.00           | 33.24             | AV    | V              | 13.09            | 46.33                              | 54                | -7.67          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ax20         |                   |       |                |                  |                                    |                   |                |
| 5260MHz            |                   |       |                |                  |                                    |                   |                |
| 5057.64            | 55.47             | PK    | H              | 2.97             | 58.44                              | 74                | -15.56         |
| 5057.64            | 41.64             | AV    | H              | 2.97             | 44.61                              | 54                | -9.39          |
| 5061.76            | 55.19             | PK    | V              | 2.97             | 58.16                              | 74                | -15.84         |
| 5061.76            | 41.31             | AV    | V              | 2.97             | 44.28                              | 54                | -9.72          |
| 10520.00           | 45.96             | PK    | H              | 13.05            | 59.01                              | 68.2              | -9.19          |
| 10520.00           | 46.75             | PK    | V              | 13.05            | 59.80                              | 68.2              | -8.40          |
| 5280MHz            |                   |       |                |                  |                                    |                   |                |
| 10560.00           | 46.24             | PK    | H              | 13.02            | 59.26                              | 68.2              | -8.94          |
| 10560.00           | 47.02             | PK    | V              | 13.02            | 60.04                              | 68.2              | -8.16          |
| 5320MHz            |                   |       |                |                  |                                    |                   |                |
| 5350.30            | 63.98             | PK    | H              | 3.07             | 67.05                              | 74                | -6.95          |
| 5352.38            | 47.92             | AV    | H              | 3.07             | 50.99                              | 54                | -3.01          |
| 5350.66            | 63.47             | PK    | V              | 3.07             | 66.54                              | 74                | -7.46          |
| 5352.18            | 47.48             | AV    | V              | 3.07             | 50.55                              | 54                | -3.45          |
| 10640.00           | 46.58             | PK    | H              | 13.19            | 59.77                              | 74                | -14.23         |
| 10640.00           | 34.06             | AV    | H              | 13.19            | 47.25                              | 54                | -6.75          |
| 10640.00           | 47.37             | PK    | V              | 13.19            | 60.56                              | 74                | -13.44         |
| 10640.00           | 34.79             | AV    | V              | 13.19            | 47.98                              | 54                | -6.02          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ax40         |                   |       |                |                  |                                    |                   |                |
| 5270MHz            |                   |       |                |                  |                                    |                   |                |
| 5058.50            | 55.28             | PK    | H              | 2.97             | 58.25                              | 74                | -15.75         |
| 5058.50            | 41.34             | AV    | H              | 2.97             | 44.31                              | 54                | -9.69          |
| 5060.45            | 55.03             | PK    | V              | 2.97             | 58.00                              | 74                | -16.00         |
| 5060.45            | 41.11             | AV    | V              | 2.97             | 44.08                              | 54                | -9.92          |
| 10540.00           | 45.72             | PK    | H              | 13.03            | 58.75                              | 68.2              | -9.45          |
| 10540.00           | 46.46             | PK    | V              | 13.03            | 59.49                              | 68.2              | -8.71          |
| 5310MHz            |                   |       |                |                  |                                    |                   |                |
| 5350.24            | 64.86             | PK    | H              | 3.07             | 67.93                              | 74                | -6.07          |
| 5350.24            | 46.59             | AV    | H              | 3.07             | 49.66                              | 54                | -4.34          |
| 5350.59            | 63.15             | PK    | V              | 3.07             | 66.22                              | 74                | -7.78          |
| 5350.59            | 45.78             | AV    | V              | 3.07             | 48.85                              | 54                | -5.15          |
| 10620.00           | 46.33             | PK    | H              | 13.09            | 59.42                              | 74                | -14.58         |
| 10620.00           | 32.46             | AV    | H              | 13.09            | 45.55                              | 54                | -8.45          |
| 10620.00           | 47.05             | PK    | V              | 13.09            | 60.14                              | 74                | -13.86         |
| 10620.00           | 33.17             | AV    | V              | 13.09            | 46.26                              | 54                | -7.74          |



**5470-5725MHz:**

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11a            |                   |       |                |                  |                                    |                   |                |
| 5500MHz            |                   |       |                |                  |                                    |                   |                |
| 5460.00            | 55.75             | PK    | H              | 3.59             | 59.34                              | 74                | -14.66         |
| 5460.00            | 41.69             | AV    | H              | 3.59             | 45.28                              | 54                | -8.72          |
| 5460.00            | 55.37             | PK    | V              | 3.59             | 58.96                              | 74                | -15.04         |
| 5460.00            | 41.41             | AV    | V              | 3.59             | 45.00                              | 54                | -9.00          |
| 5469.59            | 61.08             | PK    | H              | 3.69             | 64.77                              | 68.2              | -3.43          |
| 5469.25            | 59.64             | PK    | V              | 3.69             | 63.33                              | 68.2              | -4.87          |
| 11000.00           | 44.78             | PK    | H              | 13.98            | 58.76                              | 74                | -15.24         |
| 11000.00           | 31.01             | AV    | H              | 13.98            | 44.99                              | 54                | -9.01          |
| 11000.00           | 45.25             | PK    | V              | 13.98            | 59.23                              | 74                | -14.77         |
| 11000.00           | 31.32             | AV    | V              | 13.98            | 45.30                              | 54                | -8.70          |
| 5580MHz            |                   |       |                |                  |                                    |                   |                |
| 11160.00           | 45.09             | PK    | H              | 13.62            | 58.71                              | 74                | -15.29         |
| 11160.00           | 31.43             | AV    | H              | 13.62            | 45.05                              | 54                | -8.95          |
| 11160.00           | 45.51             | PK    | V              | 13.62            | 59.13                              | 74                | -14.87         |
| 11160.00           | 31.78             | AV    | V              | 13.62            | 45.40                              | 54                | -8.60          |
| 5700MHz            |                   |       |                |                  |                                    |                   |                |
| 5725.87            | 60.92             | PK    | H              | 4.09             | 65.01                              | 68.2              | -3.19          |
| 5726.24            | 59.75             | PK    | V              | 4.09             | 63.84                              | 68.2              | -4.36          |
| 11400.00           | 45.45             | PK    | H              | 14.08            | 59.53                              | 74                | -14.47         |
| 11400.00           | 31.84             | AV    | H              | 14.08            | 45.92                              | 54                | -8.08          |
| 11400.00           | 45.96             | PK    | V              | 14.08            | 60.04                              | 74                | -13.96         |
| 11400.00           | 32.17             | AV    | V              | 14.08            | 46.25                              | 54                | -7.75          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ac20         |                   |       |                |                  |                                    |                   |                |
| 5500MHz            |                   |       |                |                  |                                    |                   |                |
| 5460.00            | 55.97             | PK    | H              | 3.59             | 59.56                              | 74                | -14.44         |
| 5460.00            | 41.86             | AV    | H              | 3.59             | 45.45                              | 54                | -8.55          |
| 5460.00            | 55.54             | PK    | V              | 3.59             | 59.13                              | 74                | -14.87         |
| 5460.00            | 41.62             | AV    | V              | 3.59             | 45.21                              | 54                | -8.79          |
| 5469.83            | 61.39             | PK    | H              | 3.69             | 65.08                              | 68.2              | -3.12          |
| 5469.54            | 60.05             | PK    | V              | 3.69             | 63.74                              | 68.2              | -4.46          |
| 11000.00           | 44.62             | PK    | H              | 13.98            | 58.60                              | 74                | -15.40         |
| 11000.00           | 30.87             | AV    | H              | 13.98            | 44.85                              | 54                | -9.15          |
| 11000.00           | 45.09             | PK    | V              | 13.98            | 59.07                              | 74                | -14.93         |
| 11000.00           | 31.18             | AV    | V              | 13.98            | 45.16                              | 54                | -8.84          |
| 5580MHz            |                   |       |                |                  |                                    |                   |                |
| 11160.00           | 44.96             | PK    | H              | 13.62            | 58.58                              | 74                | -15.42         |
| 11160.00           | 31.25             | AV    | H              | 13.62            | 44.87                              | 54                | -9.13          |
| 11160.00           | 45.32             | PK    | V              | 13.62            | 58.94                              | 74                | -15.06         |
| 11160.00           | 31.54             | AV    | V              | 13.62            | 45.16                              | 54                | -8.84          |
| 5700MHz            |                   |       |                |                  |                                    |                   |                |
| 5725.60            | 61.10             | PK    | H              | 4.09             | 65.19                              | 68.2              | -3.01          |
| 5726.15            | 57.71             | PK    | V              | 4.09             | 61.80                              | 68.2              | -6.40          |
| 11400.00           | 45.38             | PK    | H              | 14.08            | 59.46                              | 74                | -14.54         |
| 11400.00           | 31.73             | AV    | H              | 14.08            | 45.81                              | 54                | -8.19          |
| 11400.00           | 45.75             | PK    | V              | 14.08            | 59.83                              | 74                | -14.17         |
| 11400.00           | 32.02             | AV    | V              | 14.08            | 46.10                              | 54                | -7.90          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ac40         |                   |       |                |                  |                                    |                   |                |
| 5510MHz            |                   |       |                |                  |                                    |                   |                |
| 5460.00            | 55.27             | PK    | H              | 3.59             | 58.86                              | 74                | -15.14         |
| 5460.00            | 41.66             | AV    | H              | 3.59             | 45.25                              | 54                | -8.75          |
| 5460.00            | 55.05             | PK    | V              | 3.59             | 58.64                              | 74                | -15.36         |
| 5460.00            | 41.39             | AV    | V              | 3.59             | 44.98                              | 54                | -9.02          |
| 5469.27            | 61.48             | PK    | H              | 3.69             | 65.17                              | 68.2              | -3.03          |
| 5469.76            | 60.12             | PK    | V              | 3.69             | 63.81                              | 68.2              | -4.39          |
| 11020.00           | 44.59             | PK    | H              | 13.89            | 58.48                              | 74                | -15.52         |
| 11020.00           | 30.45             | AV    | H              | 13.89            | 44.34                              | 54                | -9.66          |
| 11020.00           | 44.83             | PK    | V              | 13.89            | 58.72                              | 74                | -15.28         |
| 11020.00           | 30.64             | AV    | V              | 13.89            | 44.53                              | 54                | -9.47          |
| 5550MHz            |                   |       |                |                  |                                    |                   |                |
| 11100.00           | 44.91             | PK    | H              | 13.53            | 58.44                              | 74                | -15.56         |
| 11100.00           | 30.74             | AV    | H              | 13.53            | 44.27                              | 54                | -9.73          |
| 11100.00           | 45.16             | PK    | V              | 13.53            | 58.69                              | 74                | -15.31         |
| 11100.00           | 32.02             | AV    | V              | 13.53            | 45.55                              | 54                | -8.45          |
| 5670MHz            |                   |       |                |                  |                                    |                   |                |
| 5725.89            | 55.78             | PK    | H              | 4.09             | 59.87                              | 68.2              | -8.33          |
| 5727.32            | 55.37             | PK    | V              | 4.09             | 59.46                              | 68.2              | -8.74          |
| 11340.00           | 45.23             | PK    | H              | 13.99            | 59.22                              | 74                | -14.78         |
| 11340.00           | 31.12             | AV    | H              | 13.99            | 45.11                              | 54                | -8.89          |
| 11340.00           | 45.48             | PK    | V              | 13.99            | 59.47                              | 74                | -14.53         |
| 11340.00           | 31.39             | AV    | V              | 13.99            | 45.38                              | 54                | -8.62          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ax20         |                   |       |                |                  |                                    |                   |                |
| 5500MHz            |                   |       |                |                  |                                    |                   |                |
| 5460.00            | 55.86             | PK    | H              | 3.59             | 59.45                              | 74                | -14.55         |
| 5460.00            | 41.79             | AV    | H              | 3.59             | 45.38                              | 54                | -8.62          |
| 5460.00            | 55.38             | PK    | V              | 3.59             | 58.97                              | 74                | -15.03         |
| 5460.00            | 41.54             | AV    | V              | 3.59             | 45.13                              | 54                | -8.87          |
| 5469.73            | 61.45             | PK    | H              | 3.69             | 65.14                              | 68.2              | -3.06          |
| 5469.24            | 59.91             | PK    | V              | 3.69             | 63.60                              | 68.2              | -4.60          |
| 11000.00           | 44.78             | PK    | H              | 13.98            | 58.76                              | 74                | -15.24         |
| 11000.00           | 30.99             | AV    | H              | 13.98            | 44.97                              | 54                | -9.03          |
| 11000.00           | 45.01             | PK    | V              | 13.98            | 58.99                              | 74                | -15.01         |
| 11000.00           | 31.12             | AV    | V              | 13.98            | 45.10                              | 54                | -8.90          |
| 5580MHz            |                   |       |                |                  |                                    |                   |                |
| 11160.00           | 45.09             | PK    | H              | 13.62            | 58.71                              | 74                | -15.29         |
| 11160.00           | 31.45             | AV    | H              | 13.62            | 45.07                              | 54                | -8.93          |
| 11160.00           | 45.28             | PK    | V              | 13.62            | 58.90                              | 74                | -15.10         |
| 11160.00           | 31.61             | AV    | V              | 13.62            | 45.23                              | 54                | -8.77          |
| 5700MHz            |                   |       |                |                  |                                    |                   |                |
| 5725.69            | 61.03             | PK    | H              | 4.09             | 65.12                              | 68.2              | -3.08          |
| 5725.36            | 59.56             | PK    | V              | 4.09             | 63.65                              | 68.2              | -4.55          |
| 11400.00           | 45.54             | PK    | H              | 14.08            | 59.62                              | 74                | -14.38         |
| 11400.00           | 31.80             | AV    | H              | 14.08            | 45.88                              | 54                | -8.12          |
| 11400.00           | 45.75             | PK    | V              | 14.08            | 59.83                              | 74                | -14.17         |
| 11400.00           | 31.93             | AV    | V              | 14.08            | 46.01                              | 54                | -7.99          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ax40         |                   |       |                |                  |                                    |                   |                |
| 5510MHz            |                   |       |                |                  |                                    |                   |                |
| 5460.00            | 55.51             | PK    | H              | 3.59             | 59.10                              | 74                | -14.90         |
| 5460.00            | 41.87             | AV    | H              | 3.59             | 45.46                              | 54                | -8.54          |
| 5460.00            | 55.25             | PK    | V              | 3.59             | 58.84                              | 74                | -15.16         |
| 5460.00            | 41.58             | AV    | V              | 3.59             | 45.17                              | 54                | -8.83          |
| 5469.49            | 60.94             | PK    | H              | 3.69             | 64.63                              | 68.2              | -3.57          |
| 5469.56            | 59.40             | PK    | V              | 3.69             | 63.09                              | 68.2              | -5.11          |
| 11020.00           | 44.43             | PK    | H              | 13.89            | 58.32                              | 74                | -15.68         |
| 11020.00           | 30.59             | AV    | H              | 13.89            | 44.48                              | 54                | -9.52          |
| 11020.00           | 44.67             | PK    | V              | 13.89            | 58.56                              | 74                | -15.44         |
| 11020.00           | 30.74             | AV    | V              | 13.89            | 44.63                              | 54                | -9.37          |
| 5550MHz            |                   |       |                |                  |                                    |                   |                |
| 11100.00           | 44.81             | PK    | H              | 13.53            | 58.34                              | 74                | -15.66         |
| 11100.00           | 30.94             | AV    | H              | 13.53            | 44.47                              | 54                | -9.53          |
| 11100.00           | 45.07             | PK    | V              | 13.53            | 58.60                              | 74                | -15.40         |
| 11100.00           | 31.15             | AV    | V              | 13.53            | 44.68                              | 54                | -9.32          |
| 5670MHz            |                   |       |                |                  |                                    |                   |                |
| 5725.27            | 56.16             | PK    | H              | 4.09             | 60.25                              | 68.2              | -7.95          |
| 5725.84            | 55.71             | PK    | V              | 4.09             | 59.80                              | 68.2              | -8.40          |
| 11340.00           | 45.22             | PK    | H              | 13.99            | 59.21                              | 74                | -14.79         |
| 11340.00           | 31.31             | AV    | H              | 13.99            | 45.30                              | 54                | -8.70          |
| 11340.00           | 45.50             | PK    | V              | 13.99            | 59.49                              | 74                | -14.51         |
| 11340.00           | 31.48             | AV    | V              | 13.99            | 45.47                              | 54                | -8.53          |

**5725-5850 MHz:**

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11a            |                   |       |                |                  |                                    |                   |                |
| 5745MHz            |                   |       |                |                  |                                    |                   |                |
| 5650.00            | 55.67             | PK    | H              | 3.59             | 59.26                              | 68.20             | -8.94          |
| 5700.00            | 59.78             | PK    | H              | 4.09             | 63.87                              | 105.20            | -41.33         |
| 5720.00            | 66.33             | PK    | H              | 4.09             | 70.42                              | 110.80            | -40.38         |
| 5725.00            | 71.45             | PK    | H              | 4.09             | 75.54                              | 122.20            | -46.66         |
| 5650.00            | 55.39             | PK    | V              | 3.59             | 58.98                              | 68.20             | -9.22          |
| 5700.00            | 58.96             | PK    | V              | 4.09             | 63.05                              | 105.20            | -42.15         |
| 5720.00            | 64.81             | PK    | V              | 4.09             | 68.90                              | 110.80            | -41.90         |
| 5725.00            | 70.02             | PK    | V              | 4.09             | 74.11                              | 122.20            | -48.09         |
| 11490.00           | 45.48             | PK    | H              | 14.31            | 59.79                              | 74                | -14.21         |
| 11490.00           | 31.35             | AV    | H              | 14.31            | 45.66                              | 54                | -8.34          |
| 11490.00           | 45.81             | PK    | V              | 14.31            | 60.12                              | 74                | -13.88         |
| 11490.00           | 31.72             | AV    | V              | 14.31            | 46.03                              | 54                | -7.97          |
| 5785MHz            |                   |       |                |                  |                                    |                   |                |
| 11570.00           | 45.77             | PK    | H              | 14.05            | 59.82                              | 74                | -14.18         |
| 11570.00           | 31.82             | AV    | H              | 14.05            | 45.87                              | 54                | -8.13          |
| 11570.00           | 46.18             | PK    | V              | 14.05            | 60.23                              | 74                | -13.77         |
| 11570.00           | 32.13             | AV    | V              | 14.05            | 46.18                              | 54                | -7.82          |
| 5825MHz            |                   |       |                |                  |                                    |                   |                |
| 5850.00            | 68.05             | PK    | H              | 4.09             | 72.14                              | 122.20            | -50.06         |
| 5855.00            | 63.84             | PK    | H              | 4.09             | 67.93                              | 110.80            | -42.87         |
| 5875.00            | 57.52             | PK    | H              | 4.19             | 61.71                              | 105.20            | -43.49         |
| 5925.00            | 55.38             | PK    | H              | 4.69             | 60.07                              | 68.20             | -8.13          |
| 5850.00            | 66.69             | PK    | V              | 4.09             | 70.78                              | 122.20            | -51.42         |
| 5855.00            | 62.31             | PK    | V              | 4.09             | 66.40                              | 110.80            | -44.40         |
| 5875.00            | 56.97             | PK    | V              | 4.19             | 61.16                              | 105.20            | -44.04         |
| 5925.00            | 55.15             | PK    | V              | 4.69             | 59.84                              | 68.20             | -8.36          |
| 11650.00           | 46.09             | PK    | H              | 13.83            | 59.92                              | 74                | -14.08         |
| 11650.00           | 32.24             | AV    | H              | 13.83            | 46.07                              | 54                | -7.93          |
| 11650.00           | 46.46             | PK    | V              | 13.83            | 60.29                              | 74                | -13.71         |
| 11650.00           | 32.59             | AV    | V              | 13.83            | 46.42                              | 54                | -7.58          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ac20         |                   |       |                |                  |                                    |                   |                |
| 5745MHz            |                   |       |                |                  |                                    |                   |                |
| 5650.00            | 55.87             | PK    | H              | 3.59             | 59.46                              | 68.20             | -8.74          |
| 5700.00            | 59.54             | PK    | H              | 4.09             | 63.63                              | 105.20            | -41.57         |
| 5720.00            | 65.68             | PK    | H              | 4.09             | 69.77                              | 110.80            | -41.03         |
| 5725.00            | 72.13             | PK    | H              | 4.09             | 76.22                              | 122.20            | -45.98         |
| 5650.00            | 55.61             | PK    | V              | 3.59             | 59.20                              | 68.20             | -9.00          |
| 5700.00            | 58.89             | PK    | V              | 4.09             | 62.98                              | 105.20            | -42.22         |
| 5720.00            | 64.12             | PK    | V              | 4.09             | 68.21                              | 110.80            | -42.59         |
| 5725.00            | 70.65             | PK    | V              | 4.09             | 74.74                              | 122.20            | -47.46         |
| 11490.00           | 44.85             | PK    | H              | 14.31            | 59.16                              | 74                | -14.84         |
| 11490.00           | 31.38             | AV    | H              | 14.31            | 45.69                              | 54                | -8.31          |
| 11490.00           | 45.19             | PK    | V              | 14.31            | 59.50                              | 74                | -14.50         |
| 11490.00           | 31.67             | AV    | V              | 14.31            | 45.98                              | 54                | -8.02          |
| 5785MHz            |                   |       |                |                  |                                    |                   |                |
| 11570.00           | 45.32             | PK    | H              | 14.05            | 59.37                              | 74                | -14.63         |
| 11570.00           | 31.79             | AV    | H              | 14.05            | 45.84                              | 54                | -8.16          |
| 11570.00           | 45.64             | PK    | V              | 14.05            | 59.69                              | 74                | -14.31         |
| 11570.00           | 32.07             | AV    | V              | 14.05            | 46.12                              | 54                | -7.88          |
| 5825MHz            |                   |       |                |                  |                                    |                   |                |
| 5850.00            | 67.57             | PK    | H              | 4.09             | 71.66                              | 122.20            | -50.54         |
| 5855.00            | 63.96             | PK    | H              | 4.09             | 68.05                              | 110.80            | -42.75         |
| 5875.00            | 58.23             | PK    | H              | 4.19             | 62.42                              | 105.20            | -42.78         |
| 5925.00            | 55.58             | PK    | H              | 4.69             | 60.27                              | 68.20             | -7.93          |
| 5850.00            | 66.05             | PK    | V              | 4.09             | 70.14                              | 122.20            | -52.06         |
| 5855.00            | 62.42             | PK    | V              | 4.09             | 66.51                              | 110.80            | -44.29         |
| 5875.00            | 57.68             | PK    | V              | 4.19             | 61.87                              | 105.20            | -43.33         |
| 5925.00            | 55.34             | PK    | V              | 4.69             | 60.03                              | 68.20             | -8.17          |
| 11650.00           | 45.69             | PK    | H              | 13.83            | 59.52                              | 74                | -14.48         |
| 11650.00           | 32.27             | AV    | H              | 13.83            | 46.10                              | 54                | -7.90          |
| 11650.00           | 46.04             | PK    | V              | 13.83            | 59.87                              | 74                | -14.13         |
| 11650.00           | 32.55             | AV    | V              | 13.83            | 46.38                              | 54                | -7.62          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ac40         |                   |       |                |                  |                                    |                   |                |
| 5755MHz            |                   |       |                |                  |                                    |                   |                |
| 5650.00            | 55.96             | PK    | H              | 3.59             | 59.55                              | 68.20             | -8.65          |
| 5700.00            | 59.64             | PK    | H              | 4.09             | 63.73                              | 105.20            | -41.47         |
| 5720.00            | 67.91             | PK    | H              | 4.09             | 72.00                              | 110.80            | -38.80         |
| 5725.00            | 71.57             | PK    | H              | 4.09             | 75.66                              | 122.20            | -46.54         |
| 5650.00            | 55.72             | PK    | V              | 3.59             | 59.31                              | 68.20             | -8.89          |
| 5700.00            | 58.85             | PK    | V              | 4.09             | 62.94                              | 105.20            | -42.26         |
| 5720.00            | 66.43             | PK    | V              | 4.09             | 70.52                              | 110.80            | -40.28         |
| 5725.00            | 70.18             | PK    | V              | 4.09             | 74.27                              | 122.20            | -47.93         |
| 11510.00           | 44.79             | PK    | H              | 14.29            | 59.08                              | 74                | -14.92         |
| 11510.00           | 31.11             | AV    | H              | 14.29            | 45.40                              | 54                | -8.60          |
| 11510.00           | 45.05             | PK    | V              | 14.29            | 59.34                              | 74                | -14.66         |
| 11510.00           | 31.28             | AV    | V              | 14.29            | 45.57                              | 54                | -8.43          |
| 5795MHz            |                   |       |                |                  |                                    |                   |                |
| 5850.00            | 60.95             | PK    | H              | 4.09             | 65.04                              | 122.20            | -57.16         |
| 5855.00            | 59.34             | PK    | H              | 4.09             | 63.43                              | 110.80            | -47.37         |
| 5875.00            | 57.06             | PK    | H              | 4.19             | 61.25                              | 105.20            | -43.95         |
| 5925.00            | 55.72             | PK    | H              | 4.69             | 60.41                              | 68.20             | -7.79          |
| 5850.00            | 59.57             | PK    | V              | 4.09             | 63.66                              | 122.20            | -58.54         |
| 5855.00            | 58.73             | PK    | V              | 4.09             | 62.82                              | 110.80            | -47.98         |
| 5875.00            | 56.61             | PK    | V              | 4.19             | 60.80                              | 105.20            | -44.40         |
| 5925.00            | 55.48             | PK    | V              | 4.69             | 60.17                              | 68.20             | -8.03          |
| 11590.00           | 45.25             | PK    | H              | 13.97            | 59.22                              | 74                | -14.78         |
| 11590.00           | 31.84             | AV    | H              | 13.97            | 45.81                              | 54                | -8.19          |
| 11590.00           | 45.48             | PK    | V              | 13.97            | 59.45                              | 74                | -14.55         |
| 11590.00           | 32.03             | AV    | V              | 13.97            | 46.00                              | 54                | -8.00          |



| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ax20         |                   |       |                |                  |                                    |                   |                |
| 5745MHz            |                   |       |                |                  |                                    |                   |                |
| 5650.00            | 55.75             | PK    | H              | 3.59             | 59.34                              | 68.20             | -8.86          |
| 5700.00            | 59.29             | PK    | H              | 4.09             | 63.38                              | 105.20            | -41.82         |
| 5720.00            | 64.32             | PK    | H              | 4.09             | 68.41                              | 110.80            | -42.39         |
| 5725.00            | 69.87             | PK    | H              | 4.09             | 73.96                              | 122.20            | -48.24         |
| 5650.00            | 55.52             | PK    | V              | 3.59             | 59.11                              | 68.20             | -9.09          |
| 5700.00            | 58.64             | PK    | V              | 4.09             | 62.73                              | 105.20            | -42.47         |
| 5720.00            | 62.90             | PK    | V              | 4.09             | 66.99                              | 110.80            | -43.81         |
| 5725.00            | 68.36             | PK    | V              | 4.09             | 72.45                              | 122.20            | -49.75         |
| 11490.00           | 44.31             | PK    | H              | 14.31            | 58.62                              | 74                | -15.38         |
| 11490.00           | 31.28             | AV    | H              | 14.31            | 45.59                              | 54                | -8.41          |
| 11490.00           | 44.60             | PK    | V              | 14.31            | 58.91                              | 74                | -15.09         |
| 11490.00           | 31.52             | AV    | V              | 14.31            | 45.83                              | 54                | -8.17          |
| 5785MHz            |                   |       |                |                  |                                    |                   |                |
| 11570.00           | 45.04             | PK    | H              | 14.05            | 59.09                              | 74                | -14.91         |
| 11570.00           | 31.83             | AV    | H              | 14.05            | 45.88                              | 54                | -8.12          |
| 11570.00           | 45.31             | PK    | V              | 14.05            | 59.36                              | 74                | -14.64         |
| 11570.00           | 32.06             | AV    | V              | 14.05            | 46.11                              | 54                | -7.89          |
| 5825MHz            |                   |       |                |                  |                                    |                   |                |
| 5850.00            | 67.72             | PK    | H              | 4.09             | 71.81                              | 122.20            | -50.39         |
| 5855.00            | 64.61             | PK    | H              | 4.09             | 68.70                              | 110.80            | -42.10         |
| 5875.00            | 59.03             | PK    | H              | 4.19             | 63.22                              | 105.20            | -41.98         |
| 5925.00            | 55.49             | PK    | H              | 4.69             | 60.18                              | 68.20             | -8.02          |
| 5850.00            | 66.38             | PK    | V              | 4.09             | 70.47                              | 122.20            | -51.73         |
| 5855.00            | 63.27             | PK    | V              | 4.09             | 67.36                              | 110.80            | -43.44         |
| 5875.00            | 58.19             | PK    | V              | 4.19             | 62.38                              | 105.20            | -42.82         |
| 5925.00            | 55.24             | PK    | V              | 4.69             | 59.93                              | 68.20             | -8.27          |
| 11650.00           | 45.75             | PK    | H              | 13.83            | 59.58                              | 74                | -14.42         |
| 11650.00           | 32.39             | AV    | H              | 13.83            | 46.22                              | 54                | -7.78          |
| 11650.00           | 46.12             | PK    | V              | 13.83            | 59.95                              | 74                | -14.05         |
| 11650.00           | 32.57             | AV    | V              | 13.83            | 46.40                              | 54                | -7.60          |

| Frequency<br>(MHz) | Receiver          |       | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|-------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/AV |                |                  |                                    |                   |                |
| 802.11ax40         |                   |       |                |                  |                                    |                   |                |
| 5755MHz            |                   |       |                |                  |                                    |                   |                |
| 5650.00            | 56.02             | PK    | H              | 3.59             | 59.61                              | 68.20             | -8.59          |
| 5700.00            | 59.45             | PK    | H              | 4.09             | 63.54                              | 105.20            | -41.66         |
| 5720.00            | 67.37             | PK    | H              | 4.09             | 71.46                              | 110.80            | -39.34         |
| 5725.00            | 72.84             | PK    | H              | 4.09             | 76.93                              | 122.20            | -45.27         |
| 5650.00            | 55.80             | PK    | V              | 3.59             | 59.39                              | 68.20             | -8.81          |
| 5700.00            | 58.69             | PK    | V              | 4.09             | 62.78                              | 105.20            | -42.42         |
| 5720.00            | 65.91             | PK    | V              | 4.09             | 70.00                              | 110.80            | -40.80         |
| 5725.00            | 71.35             | PK    | V              | 4.09             | 75.44                              | 122.20            | -46.76         |
| 11510.00           | 44.62             | PK    | H              | 14.29            | 58.91                              | 74                | -15.09         |
| 11510.00           | 31.25             | AV    | H              | 14.29            | 45.54                              | 54                | -8.46          |
| 11510.00           | 44.86             | PK    | V              | 14.29            | 59.15                              | 74                | -14.85         |
| 11510.00           | 31.47             | AV    | V              | 14.29            | 45.76                              | 54                | -8.24          |
| 5795MHz            |                   |       |                |                  |                                    |                   |                |
| 5851.26            | 55.89             | PK    | H              | 3.59             | 59.48                              | 119.33            | -59.85         |
| 5856.75            | 55.41             | PK    | H              | 4.09             | 59.50                              | 110.31            | -50.81         |
| 5892.46            | 55.45             | PK    | H              | 4.09             | 59.54                              | 92.24             | -32.70         |
| 5933.61            | 56.38             | PK    | H              | 4.09             | 60.47                              | 68.20             | -7.73          |
| 5854.13            | 61.37             | PK    | V              | 3.59             | 64.96                              | 112.78            | -47.82         |
| 5855.28            | 60.16             | PK    | V              | 4.09             | 64.25                              | 110.72            | -46.47         |
| 5903.13            | 55.16             | PK    | V              | 4.09             | 59.25                              | 84.35             | -25.10         |
| 5926.94            | 56.1              | PK    | V              | 4.09             | 60.19                              | 68.20             | -8.01          |
| 11590.00           | 45.30             | PK    | H              | 13.97            | 59.27                              | 74                | -14.73         |
| 11590.00           | 31.91             | AV    | H              | 13.97            | 45.88                              | 54                | -8.12          |
| 11590.00           | 45.54             | PK    | V              | 13.97            | 59.51                              | 74                | -14.49         |
| 11590.00           | 32.15             | AV    | V              | 13.97            | 46.12                              | 54                | -7.88          |

**Note:**

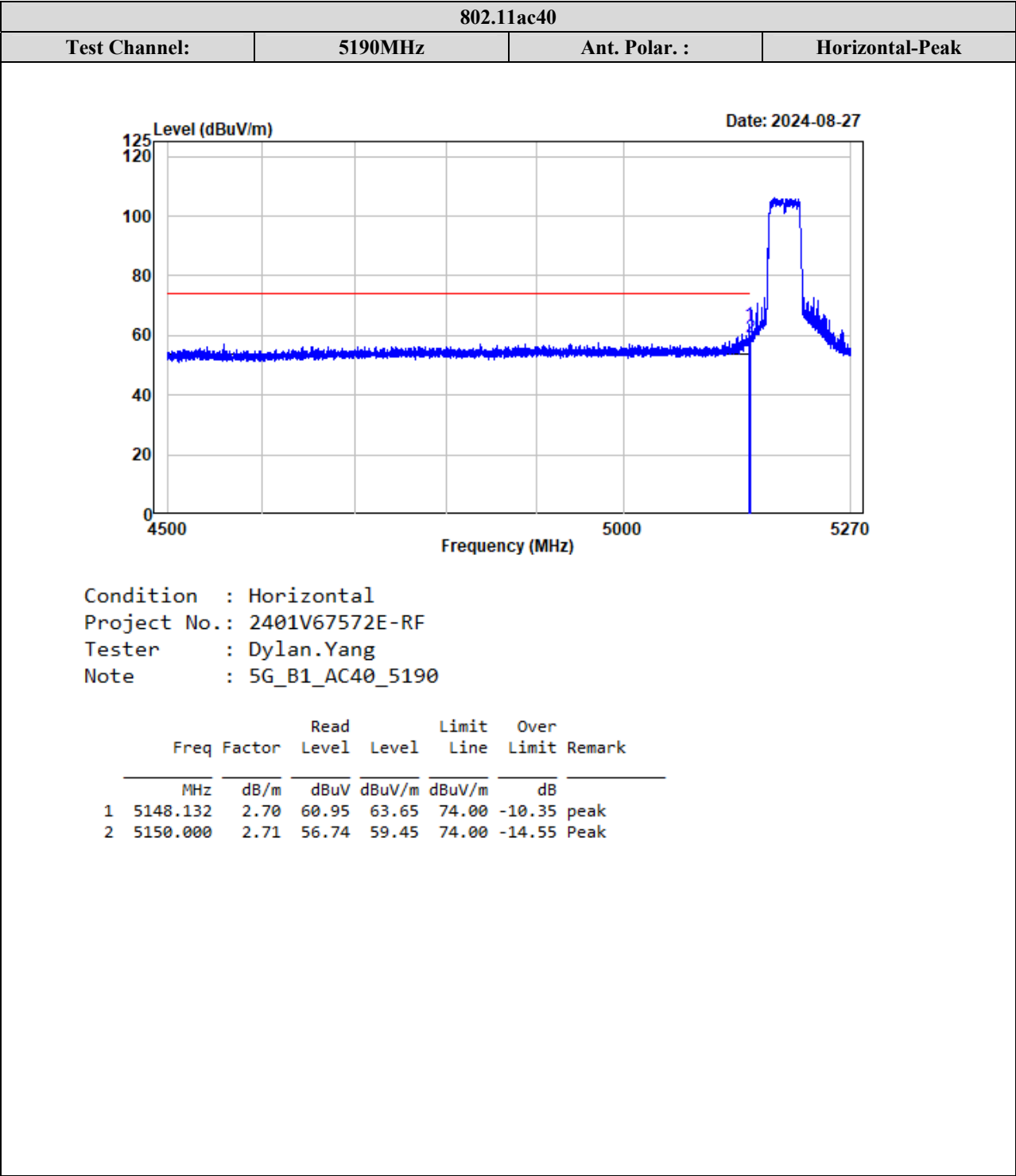
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

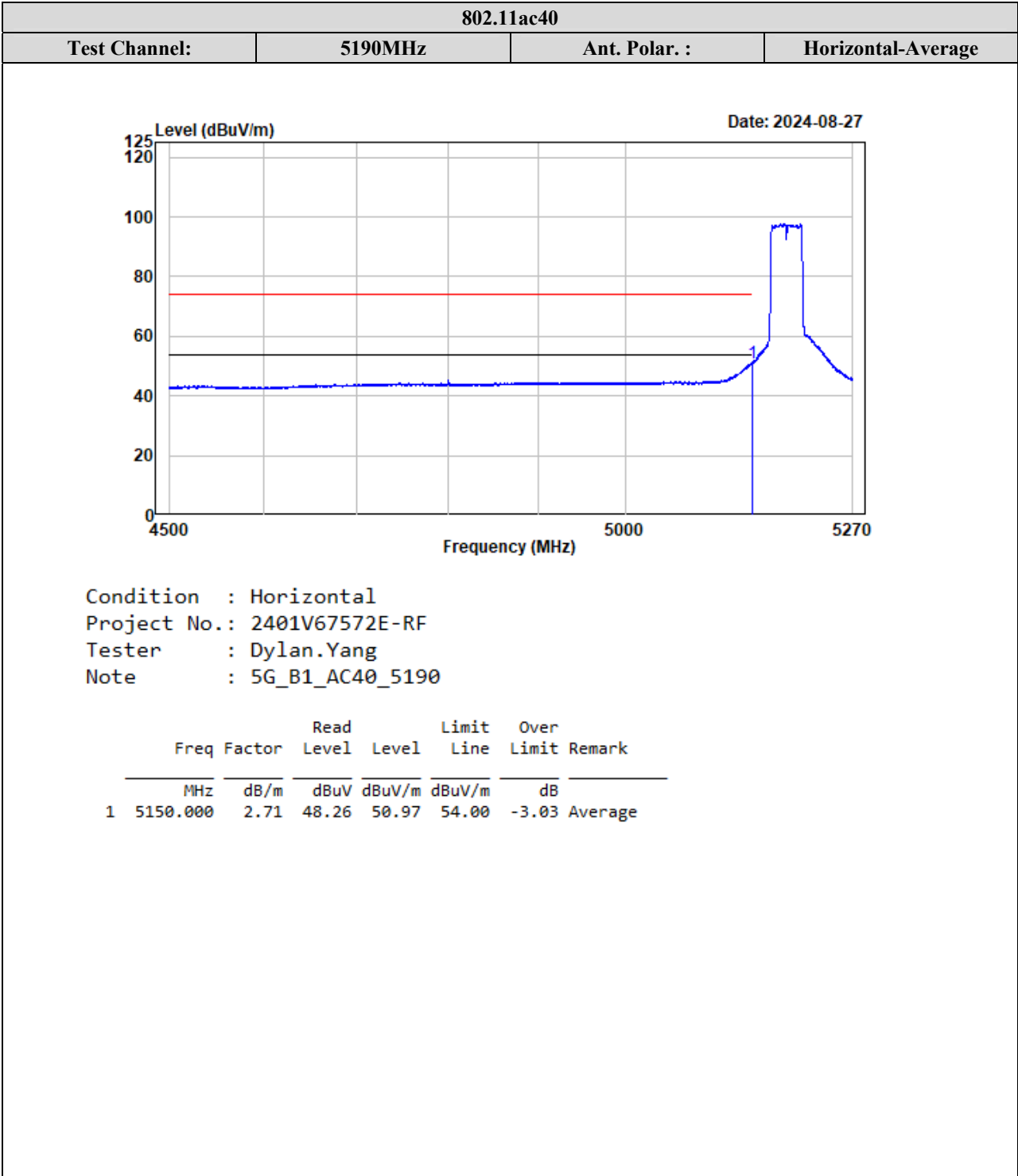
Corrected Amplitude = Factor + Reading

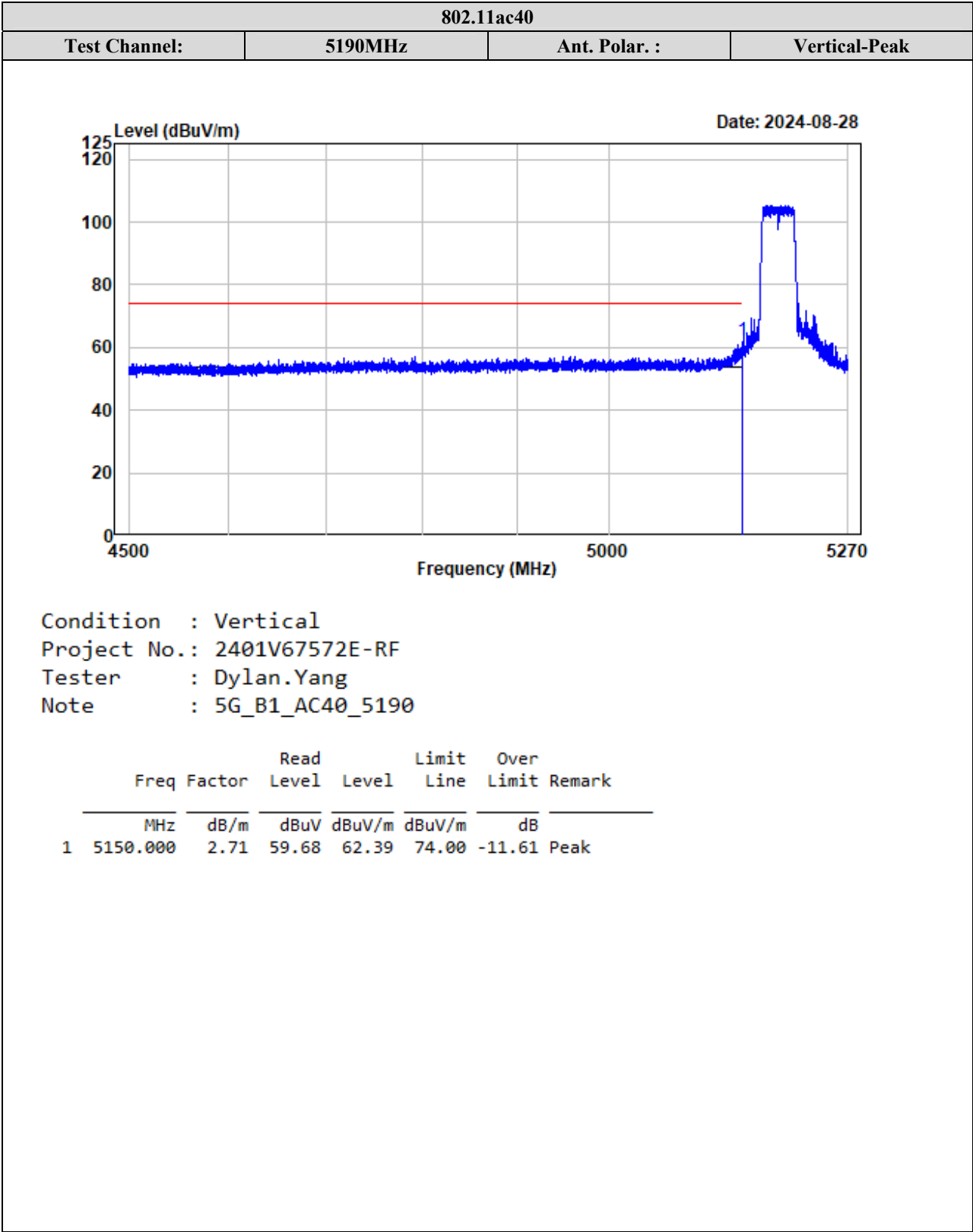
Margin = Corrected. Amplitude - Limit

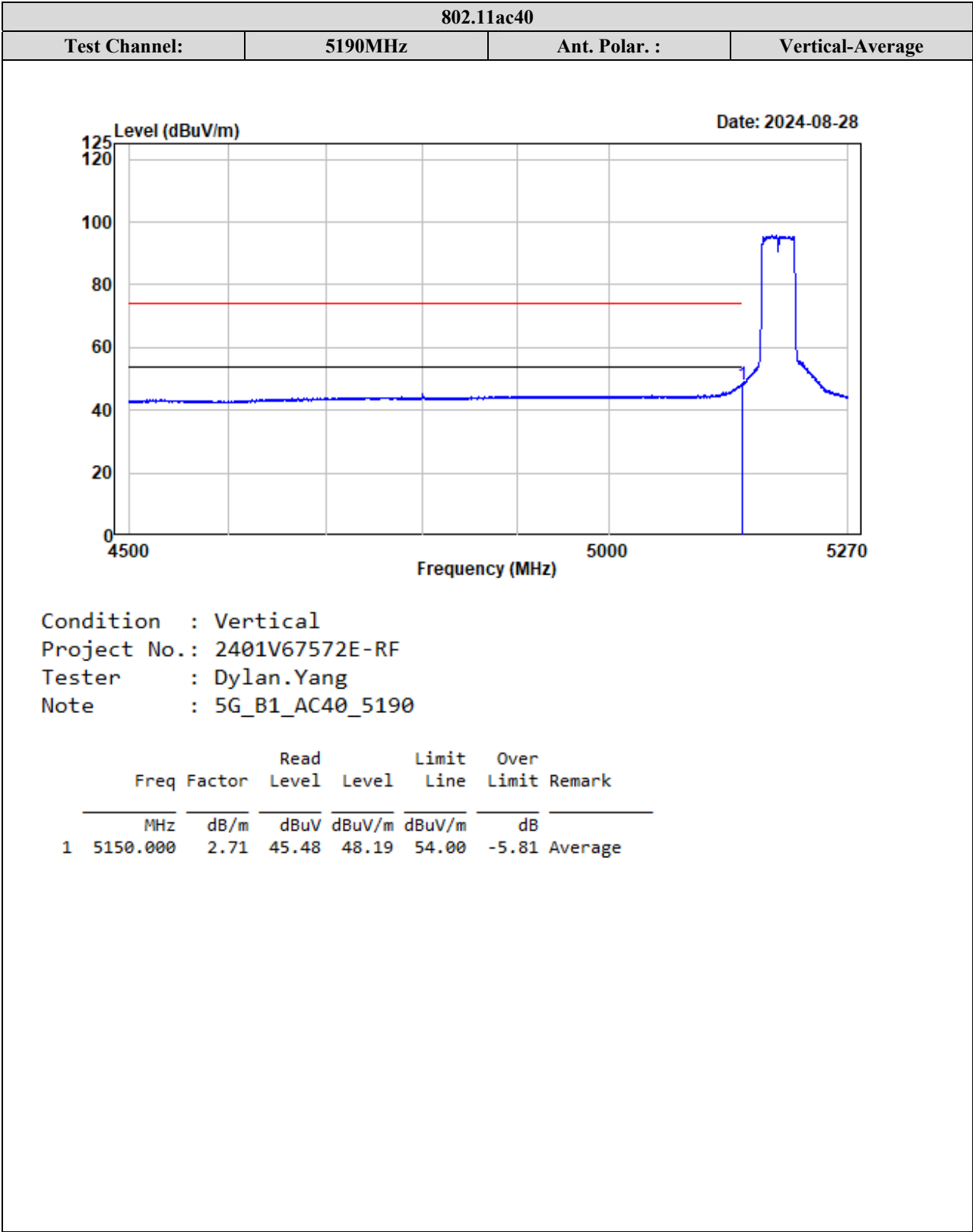
The other spurious emission which is in the noise floor level was not recorded.

Test plots for worst Band Edge Measurements (Radiated)  
5150-5250 MHz:

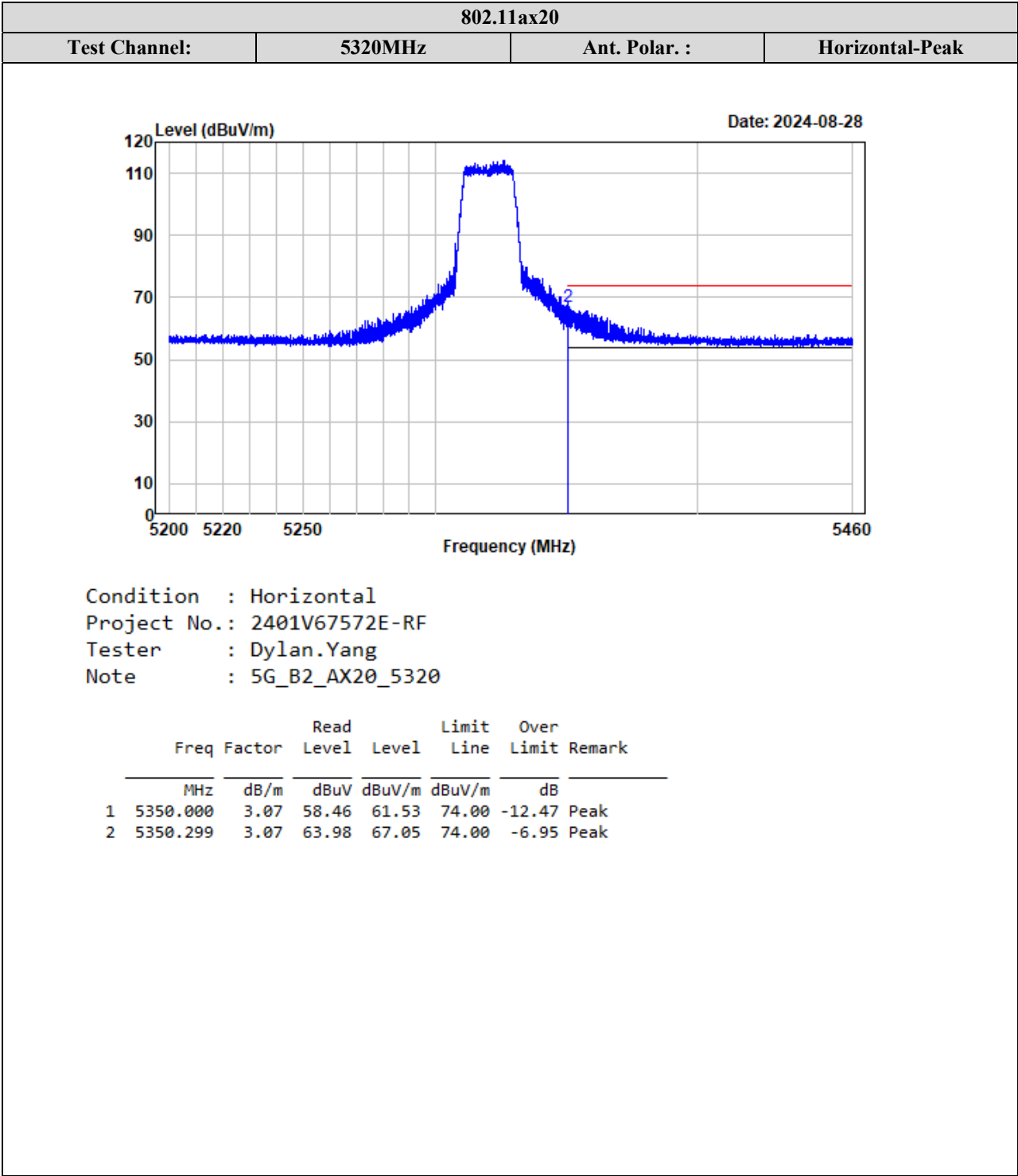


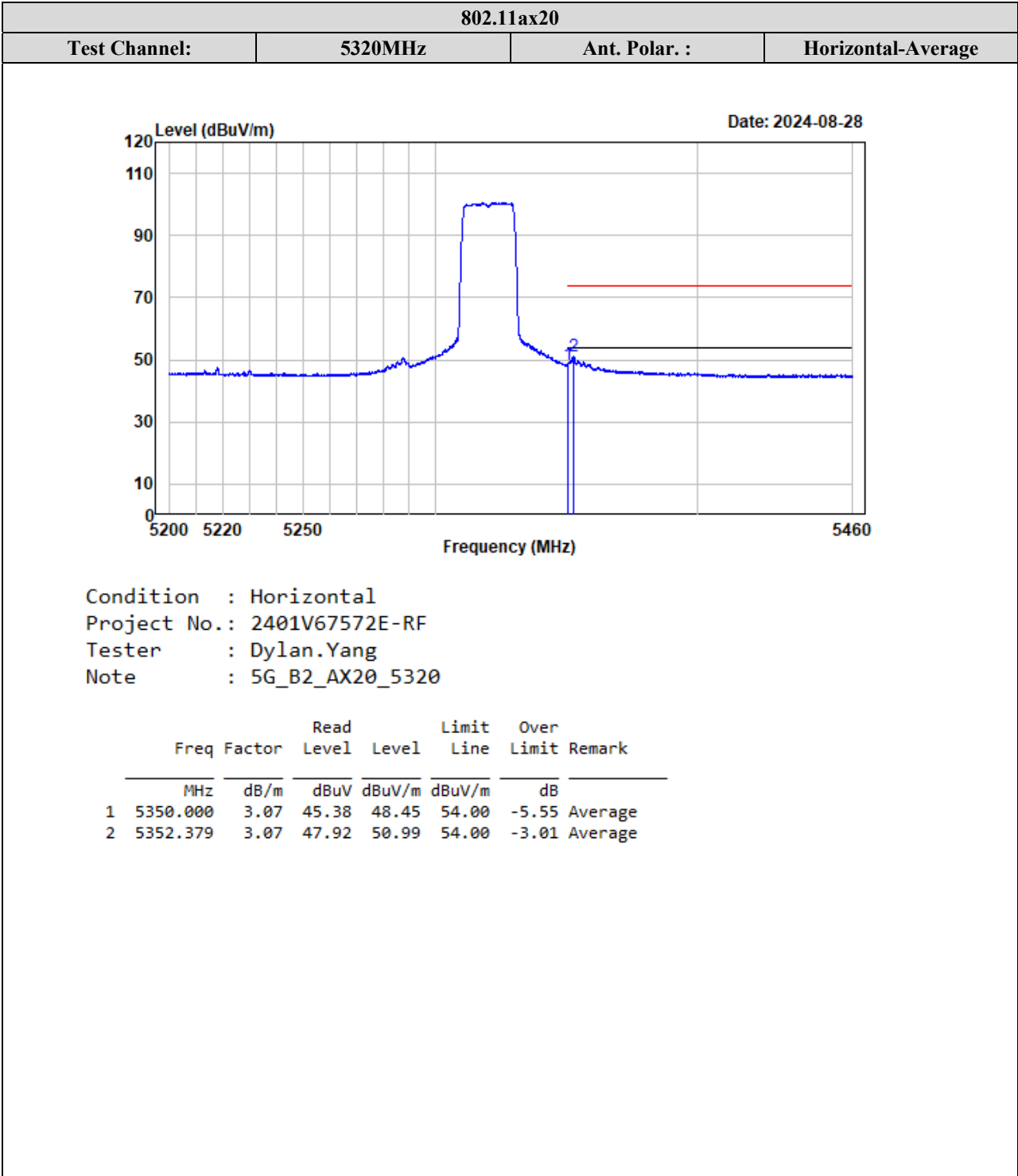




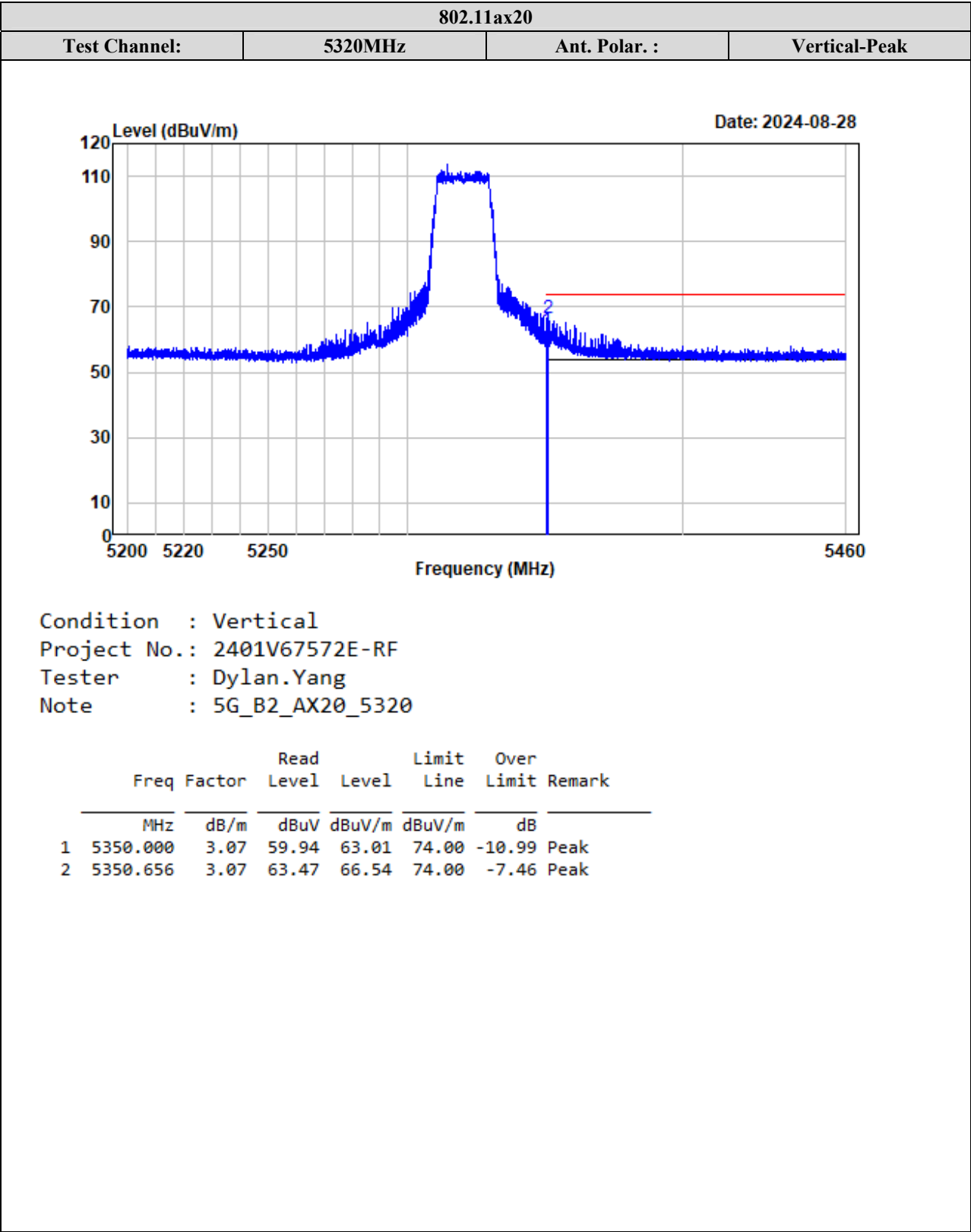


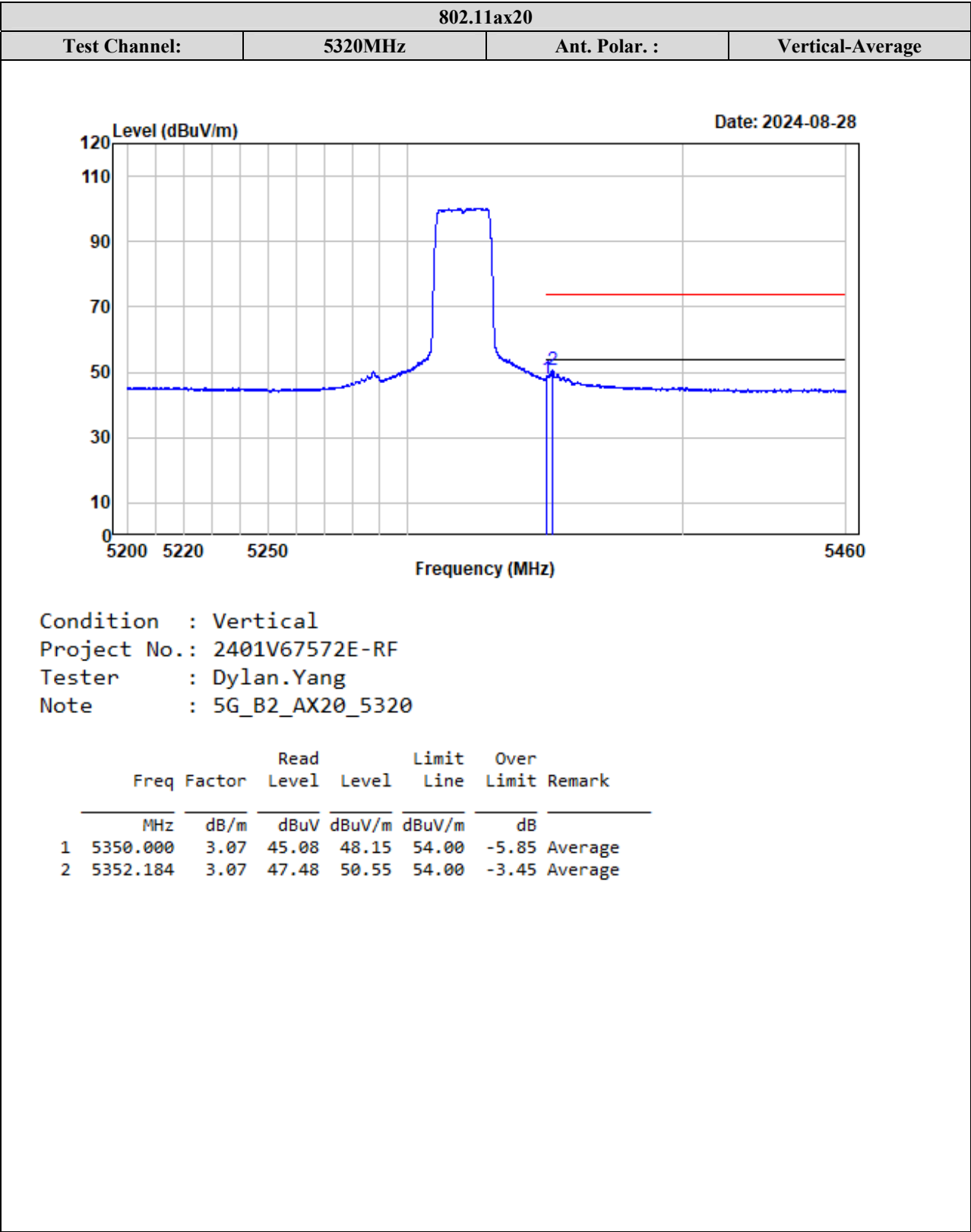
5250-5350MHz:



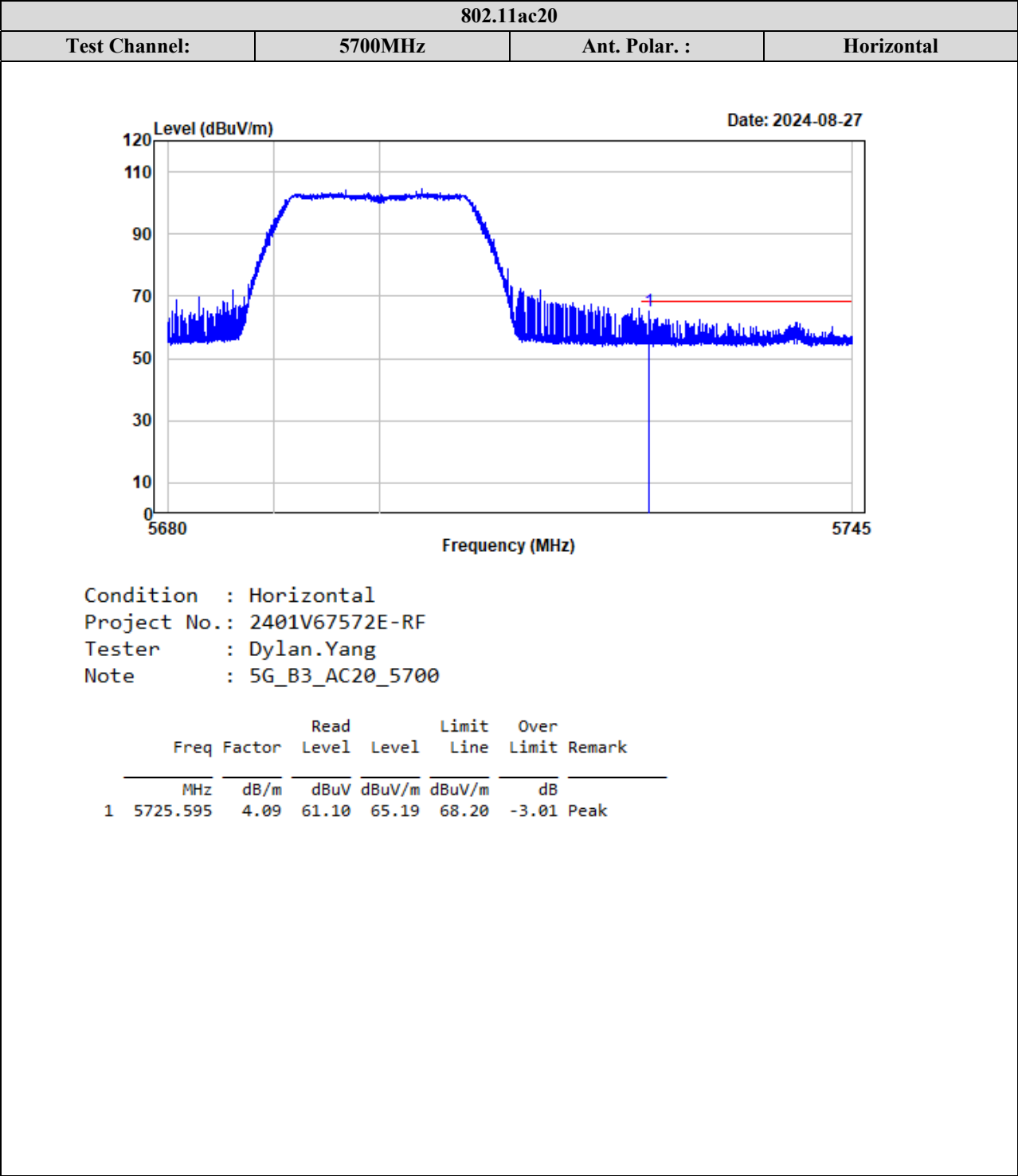


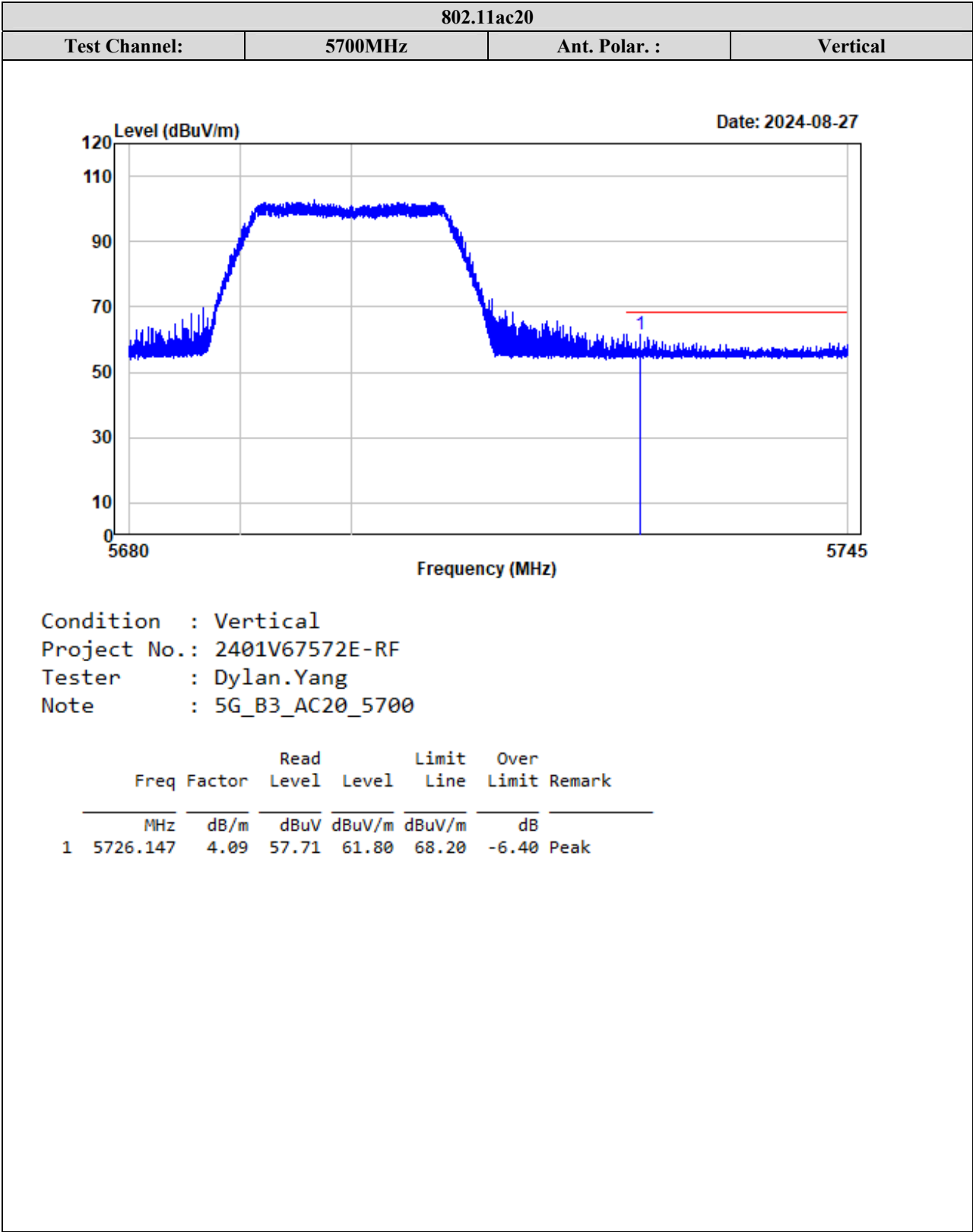




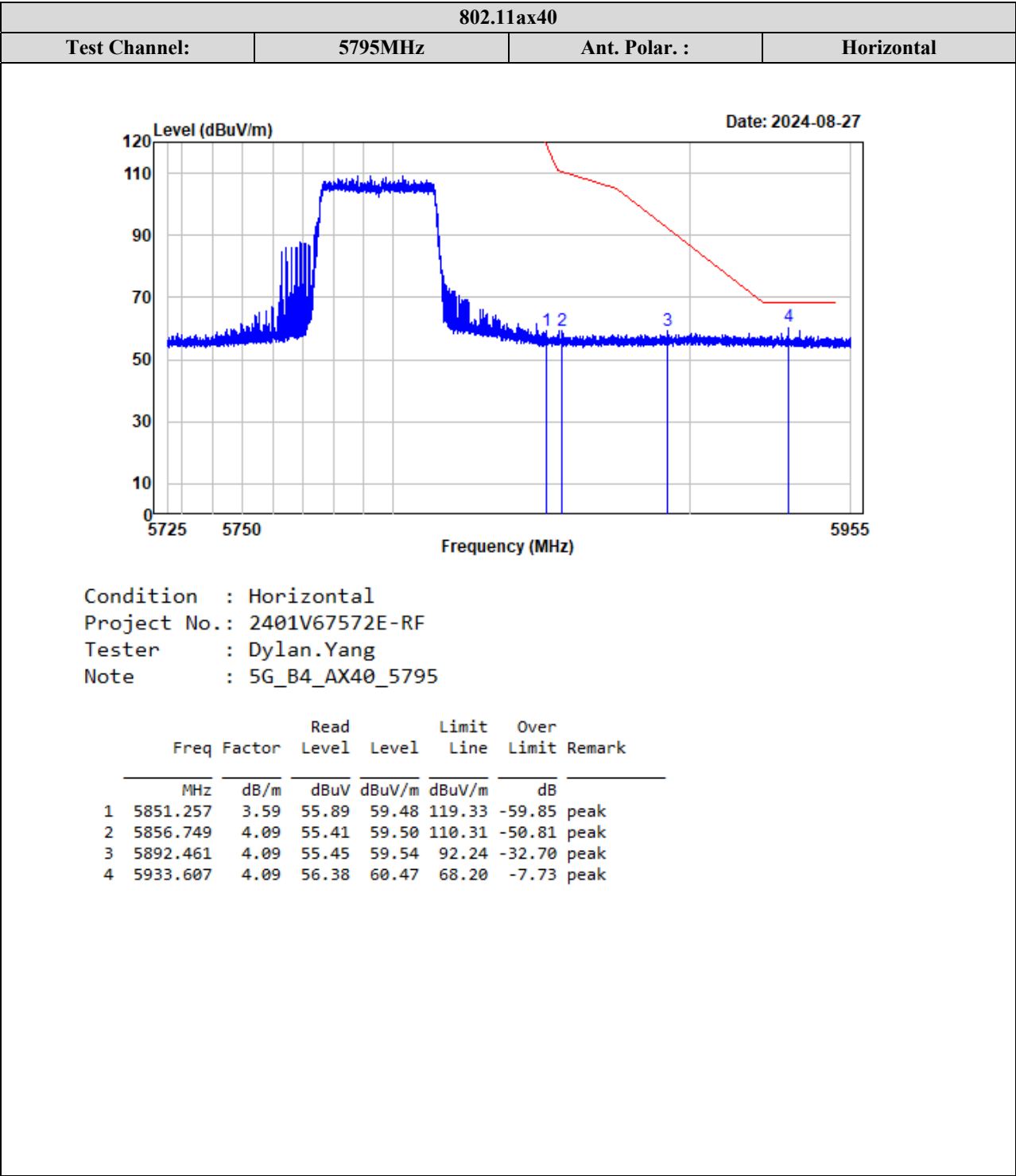


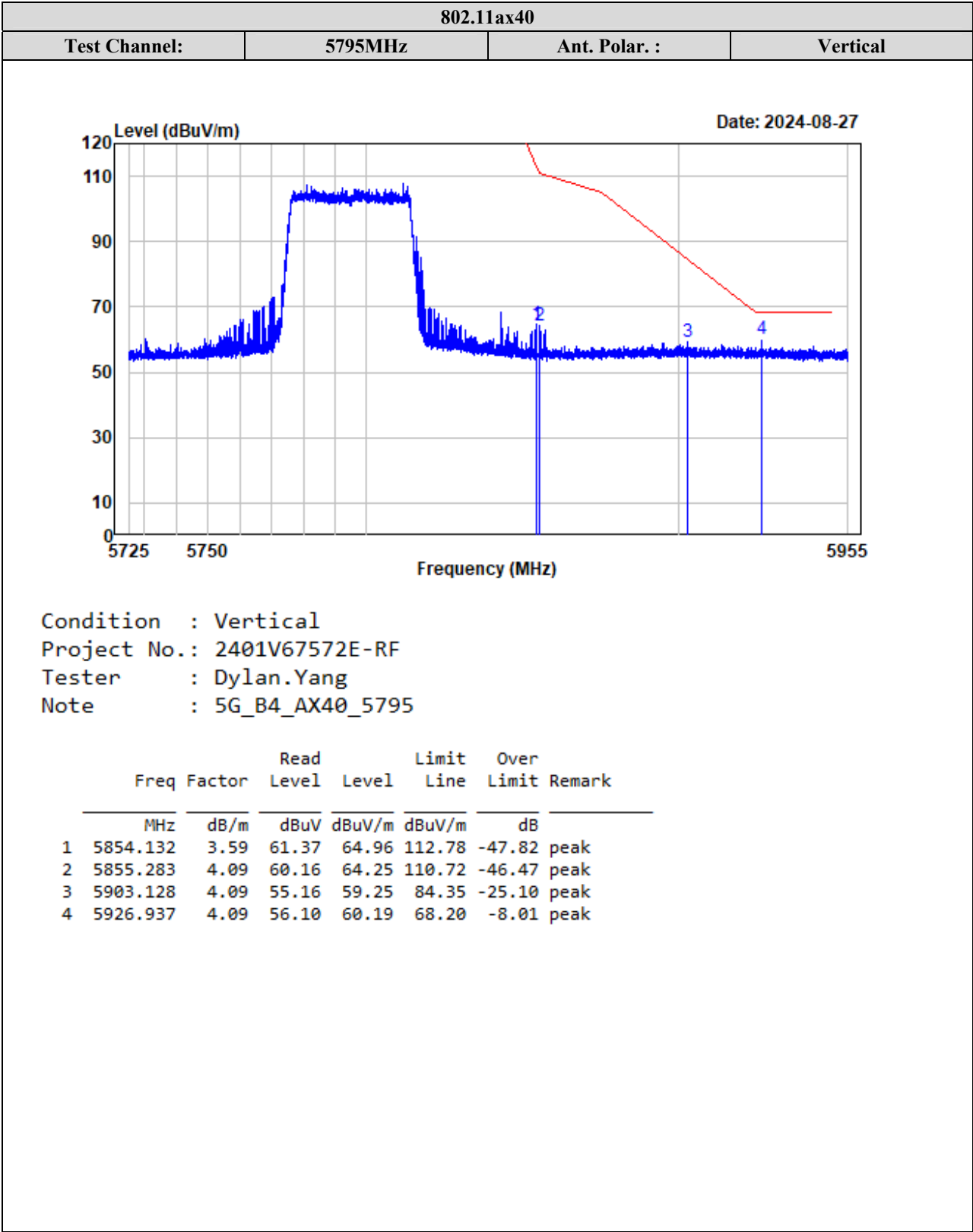
5470-5725MHz:





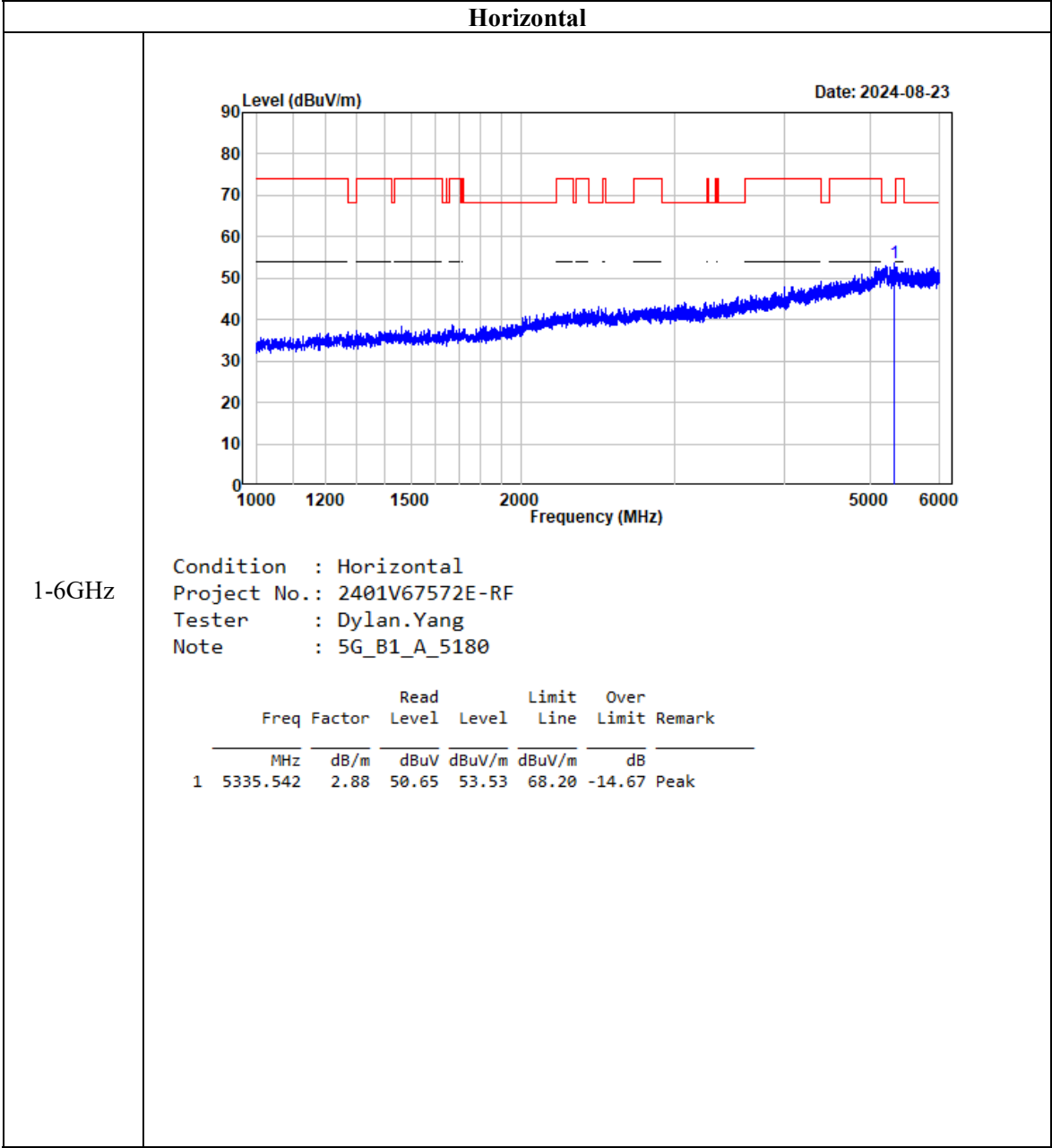
5725-5850 MHz:

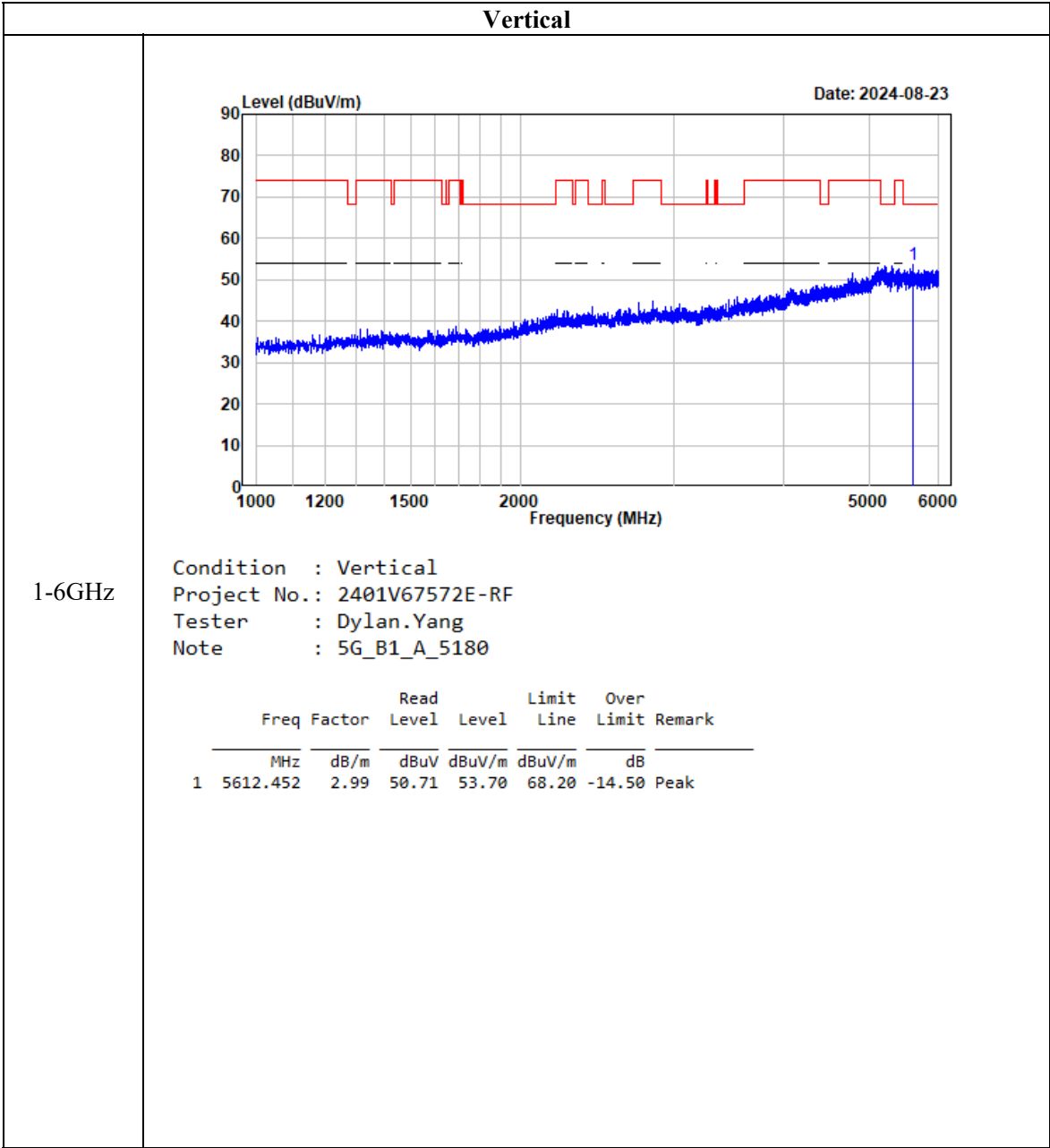




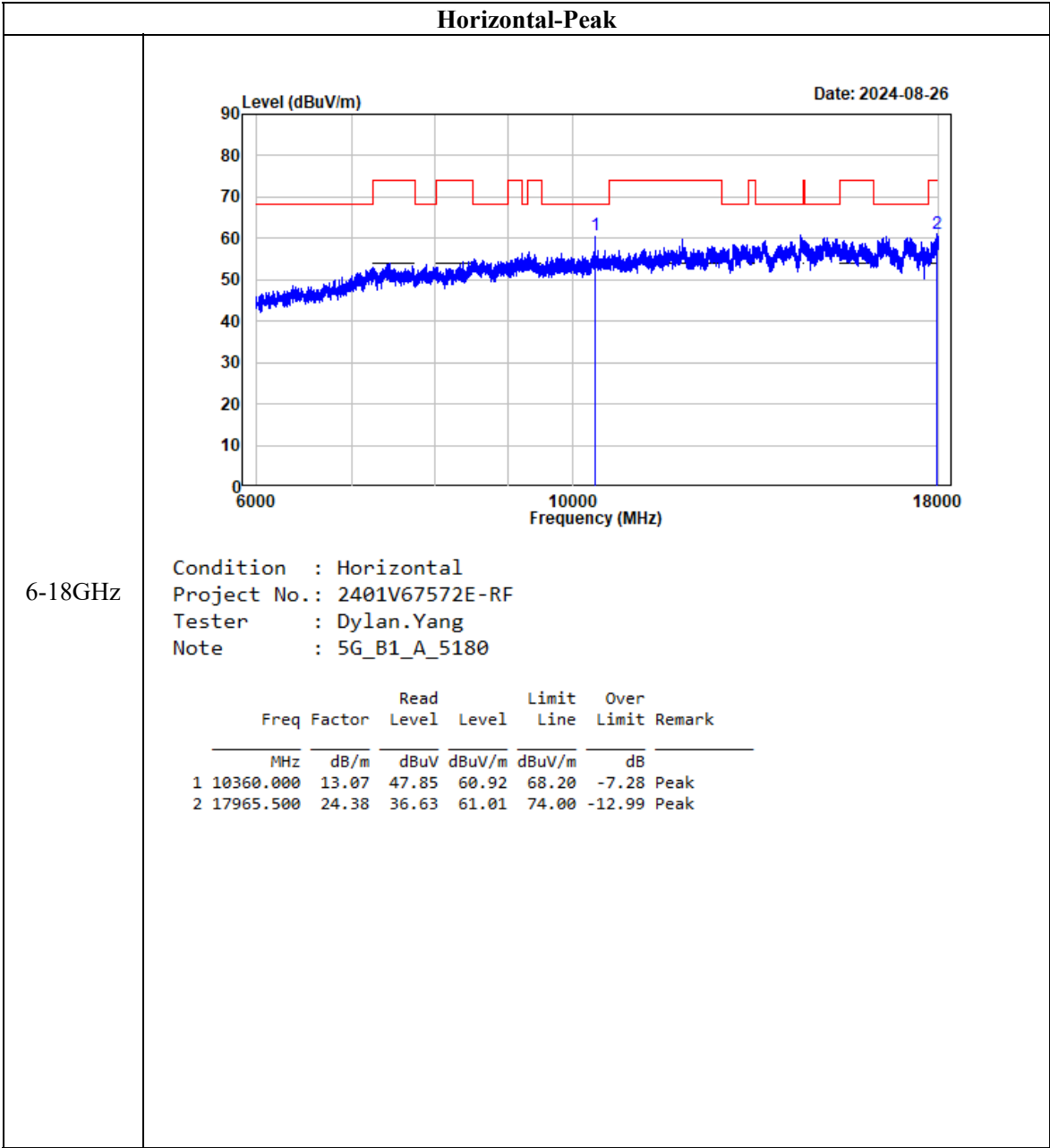
Listed with the worst harmonic margin test plot:

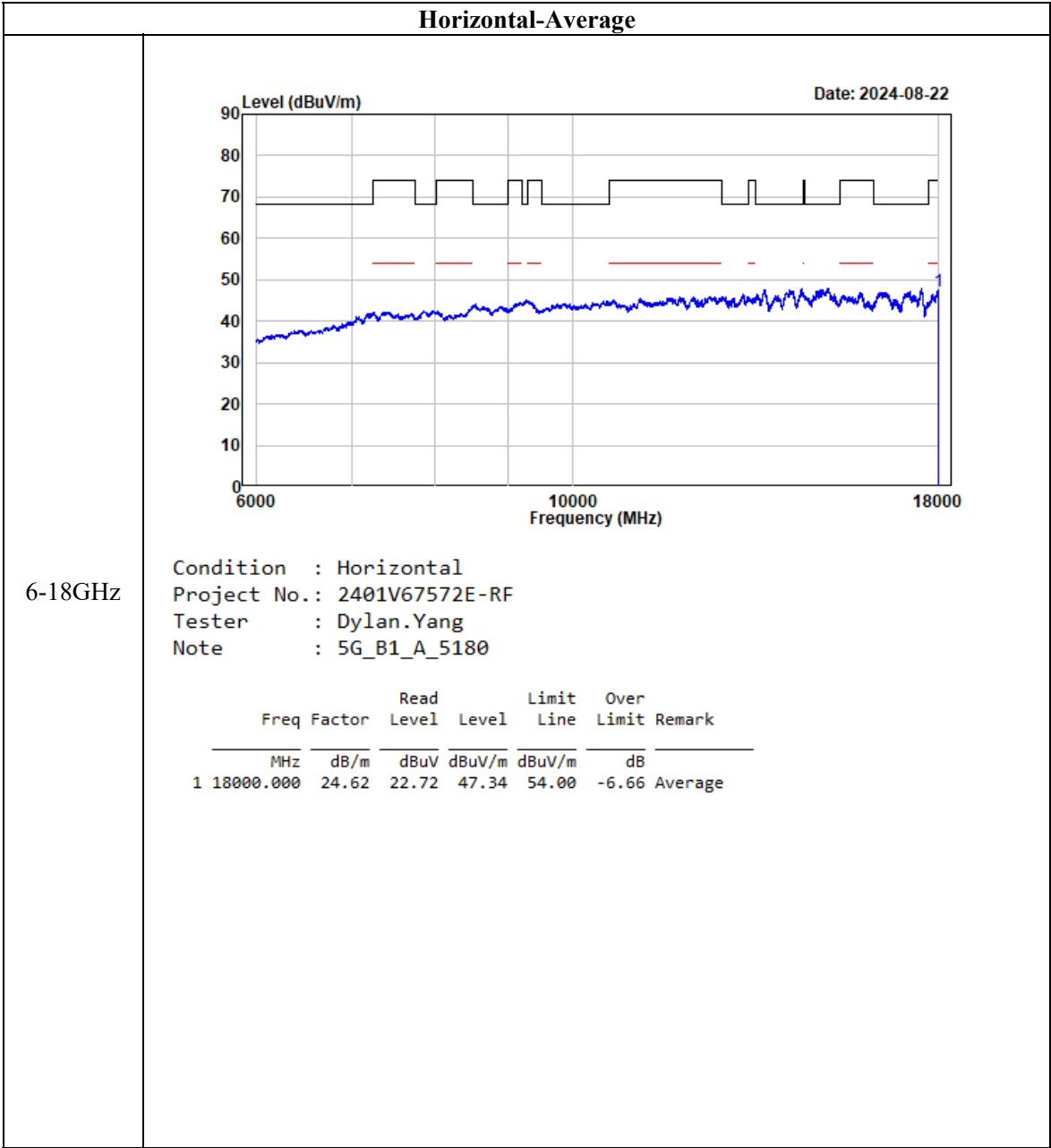
5150-5250 MHz:

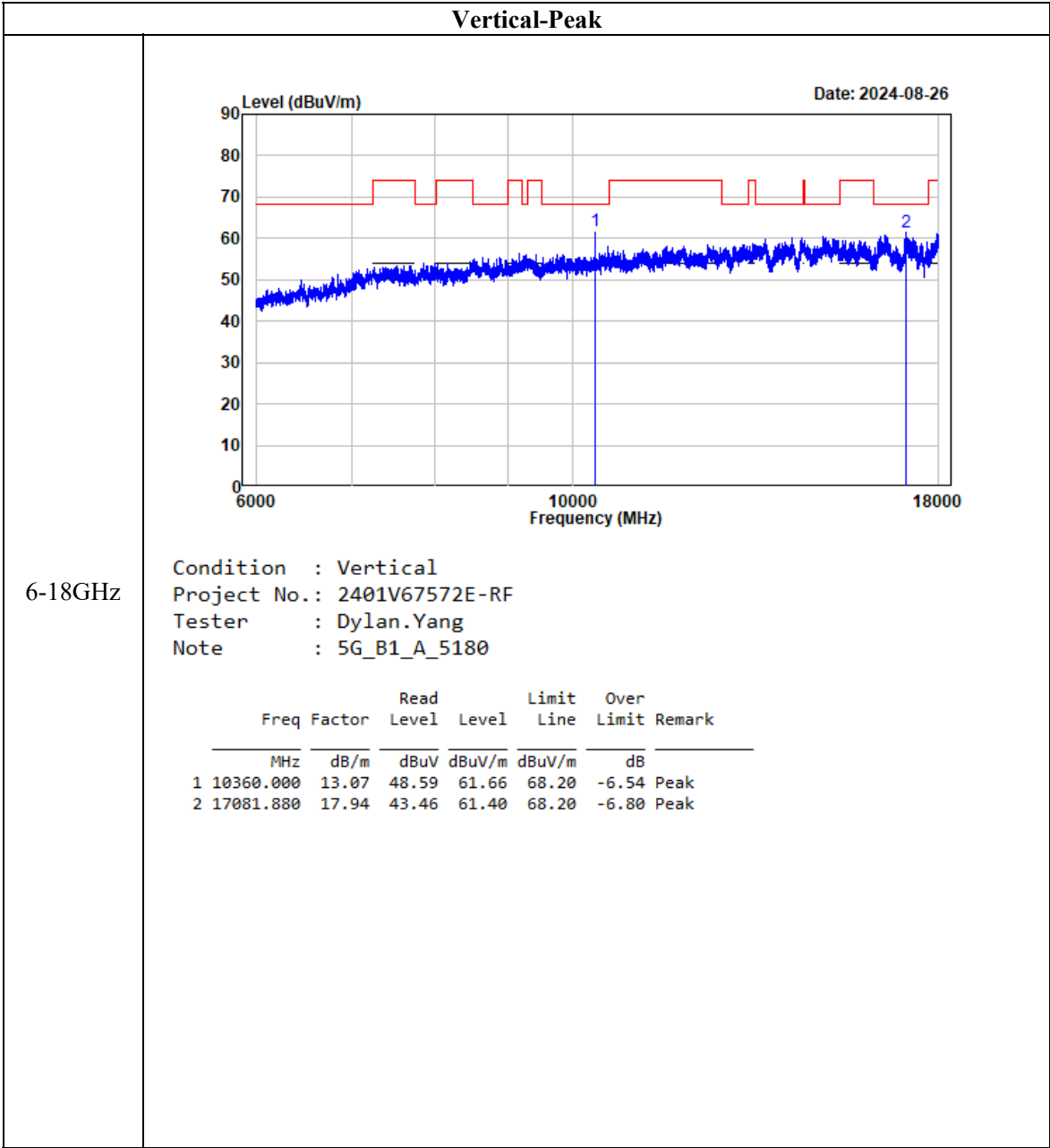


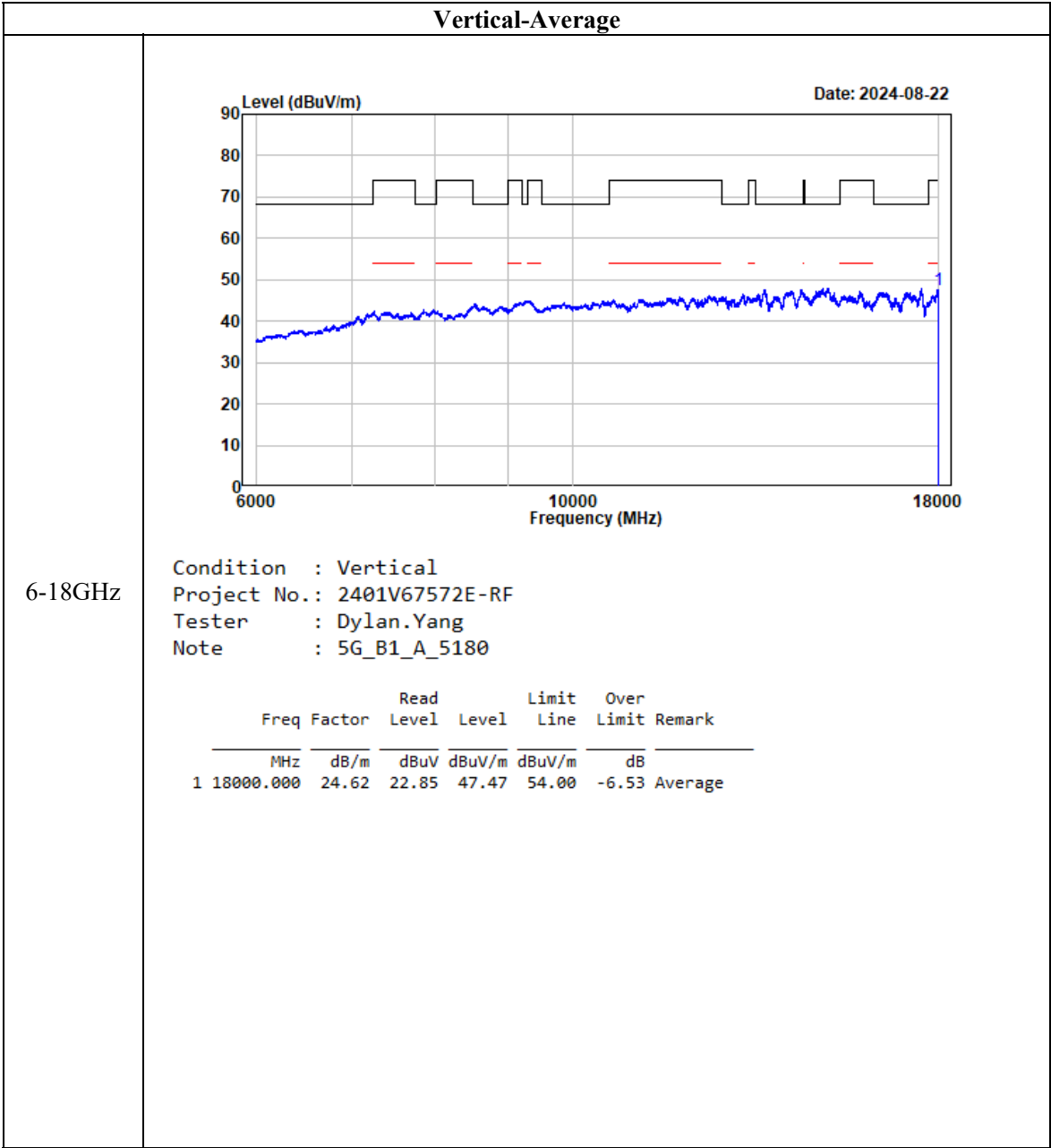




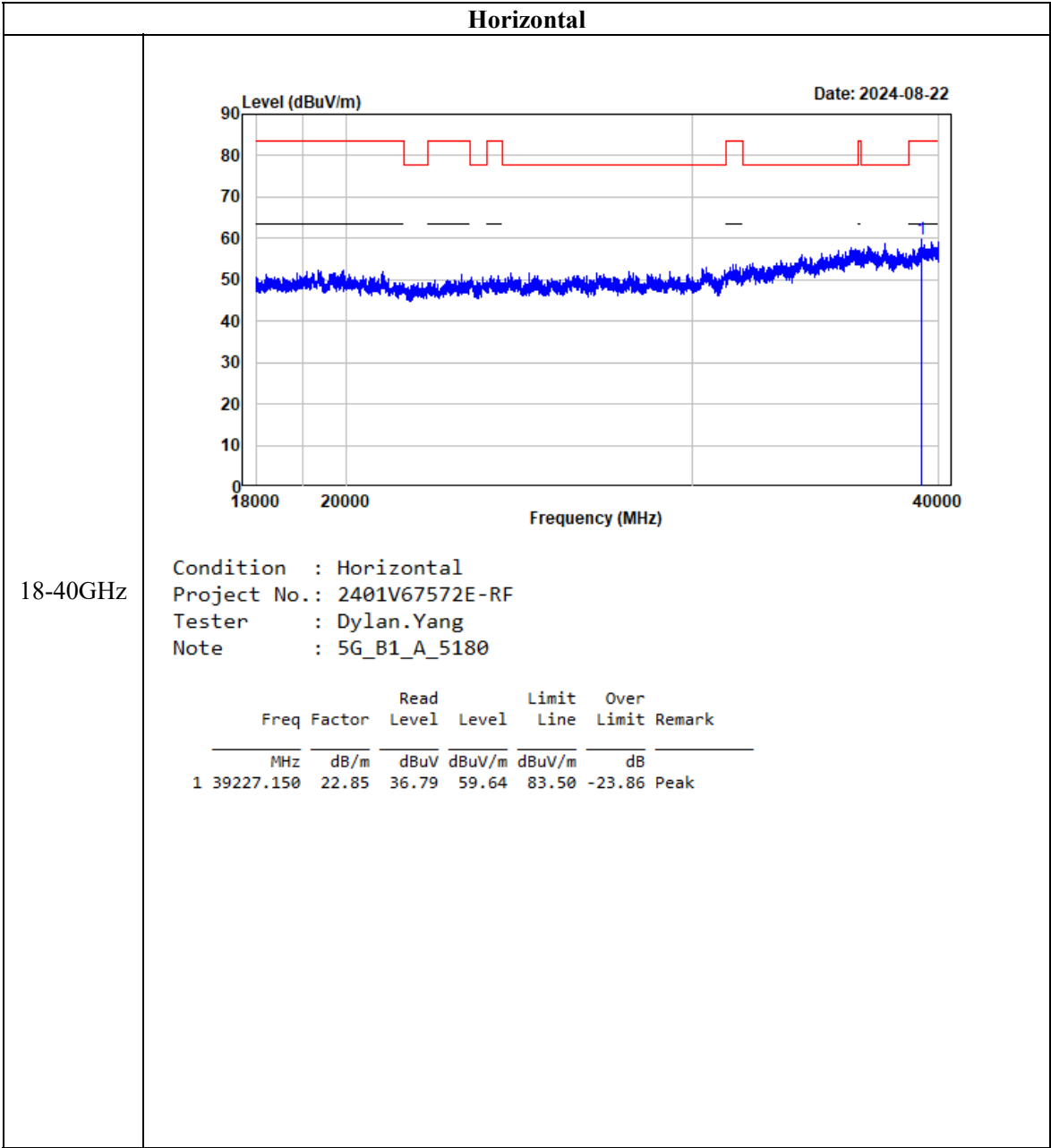


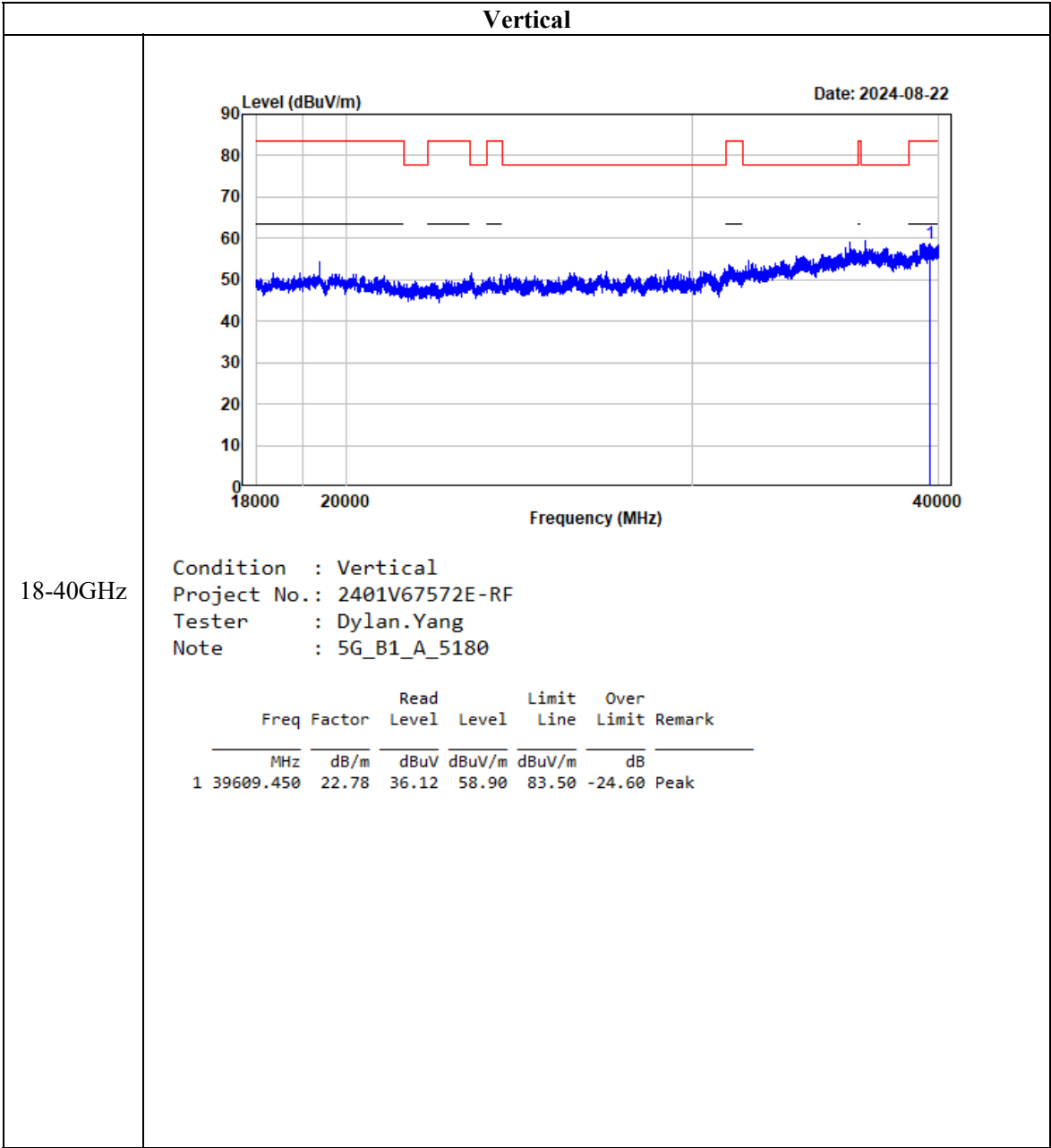




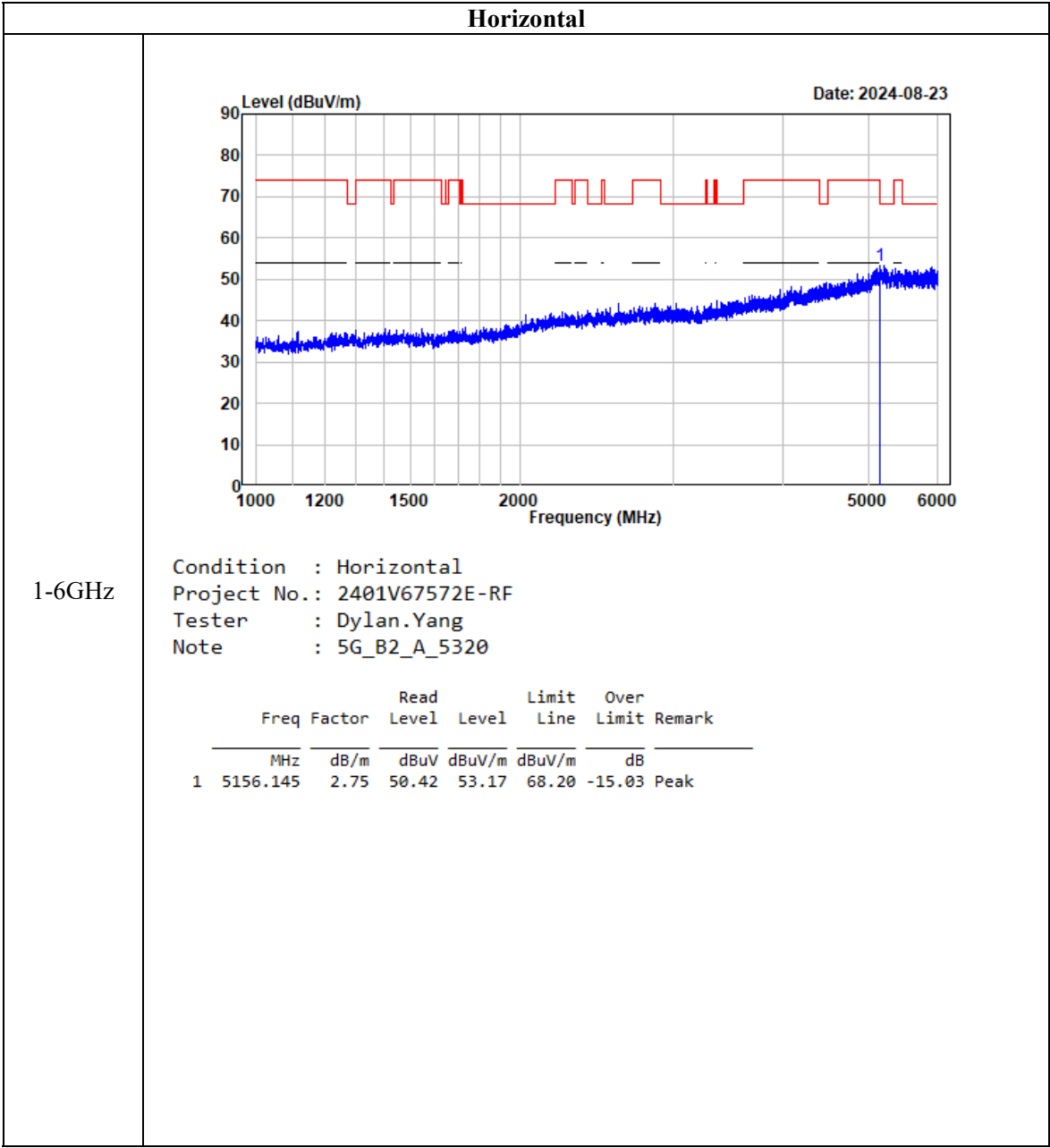


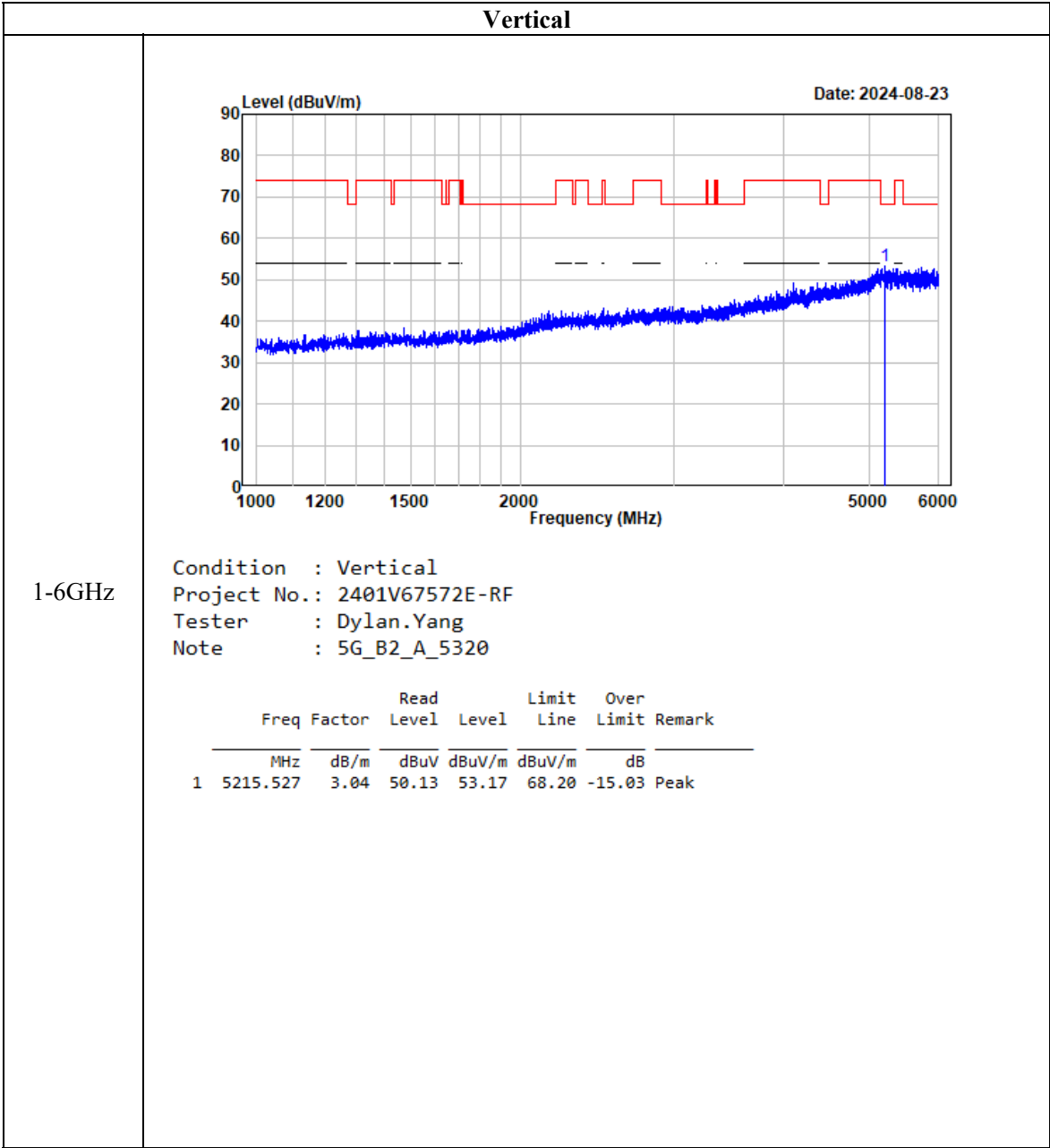
Note: Spectrum analyzer setting: RBW=1 MHz, VBW=5 kHz



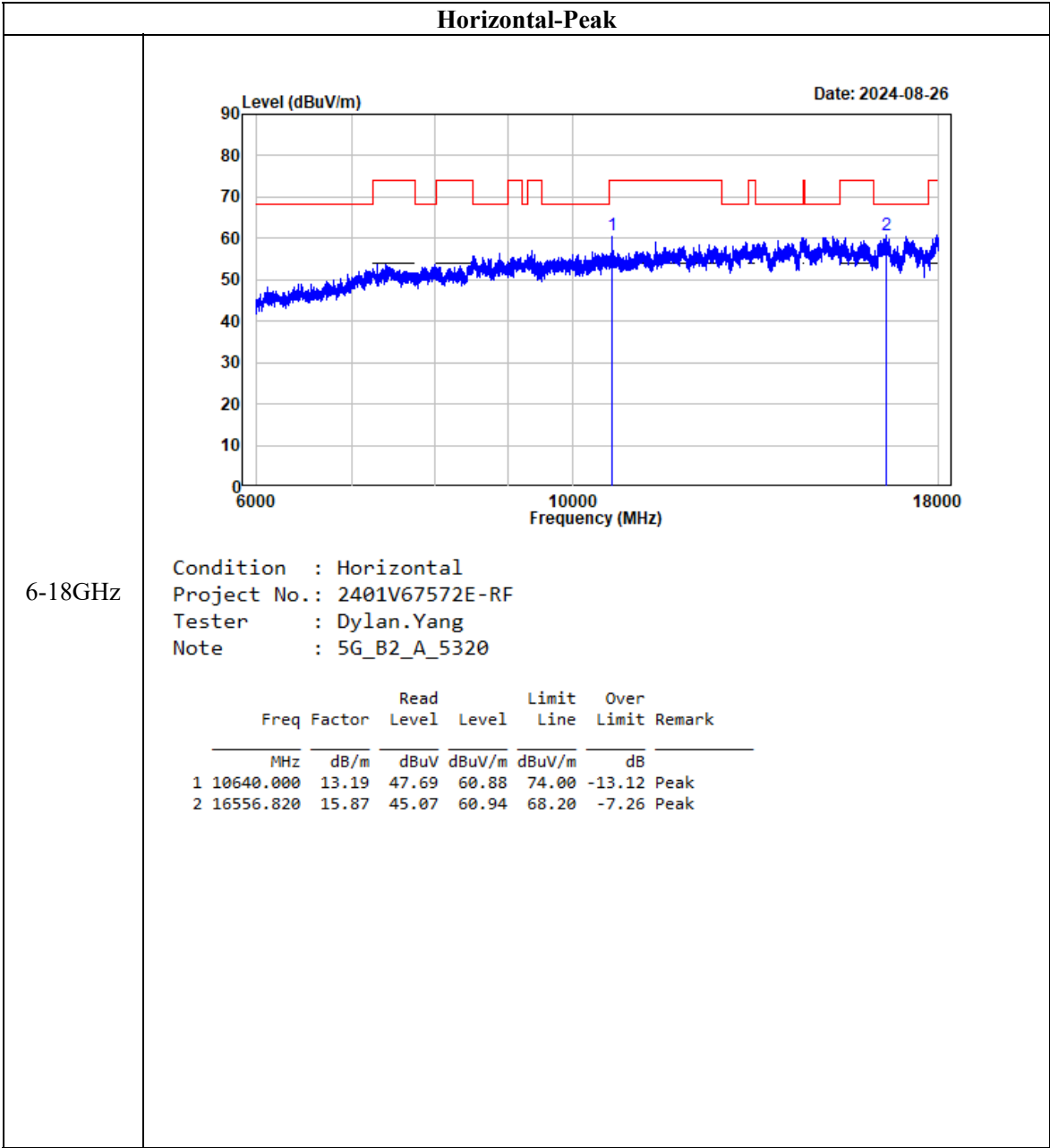


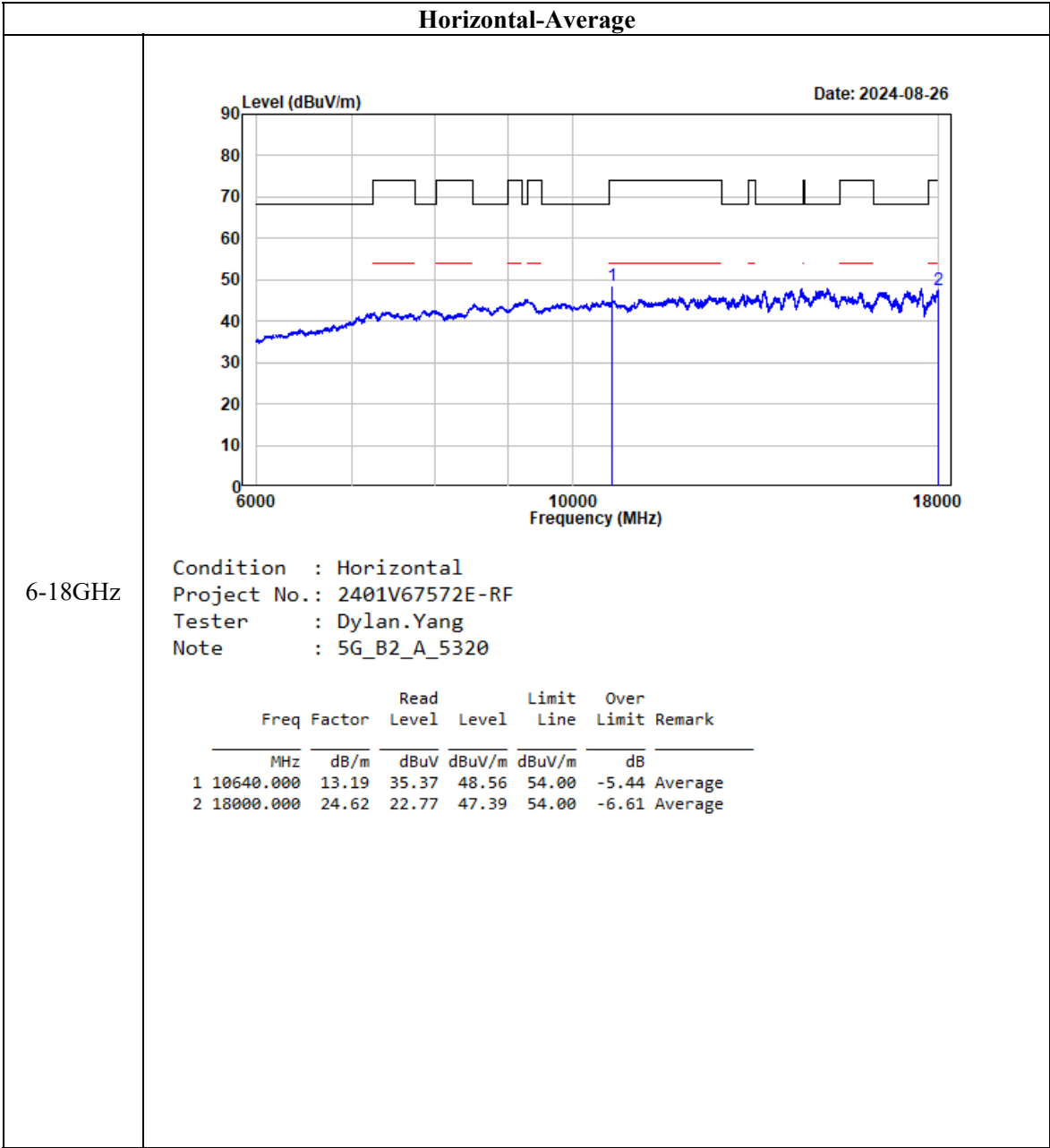
5250-5350MHz:

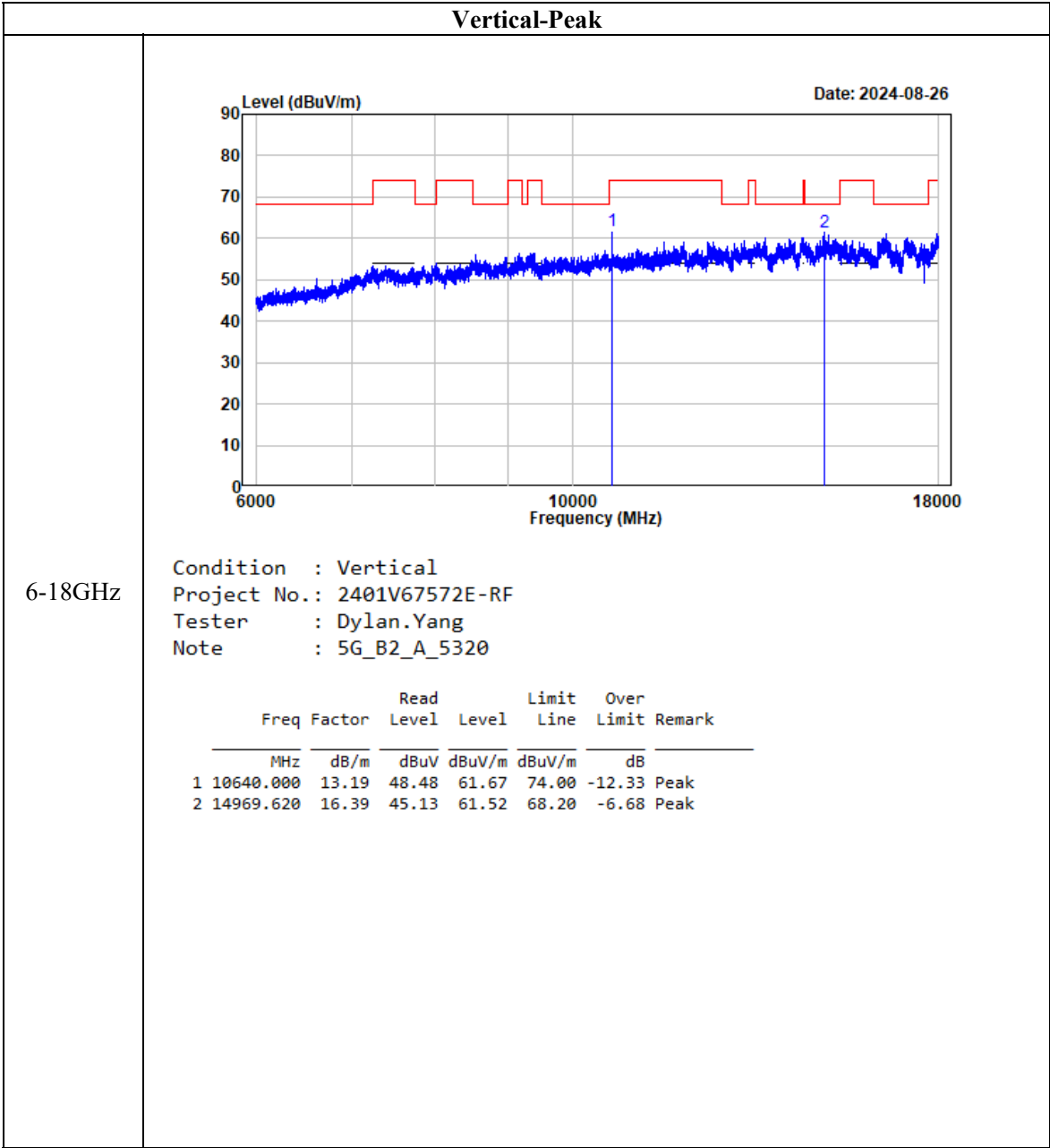


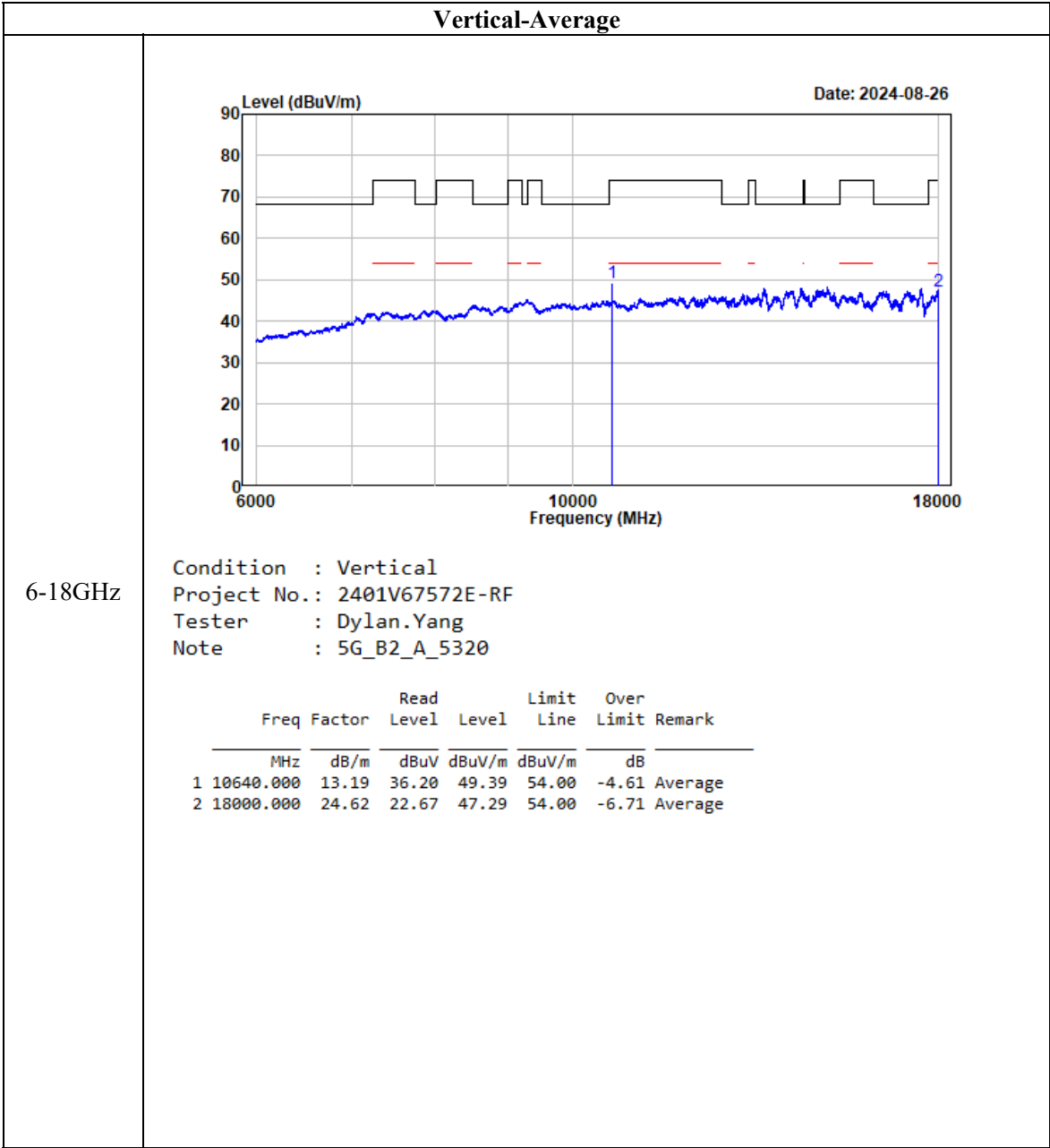


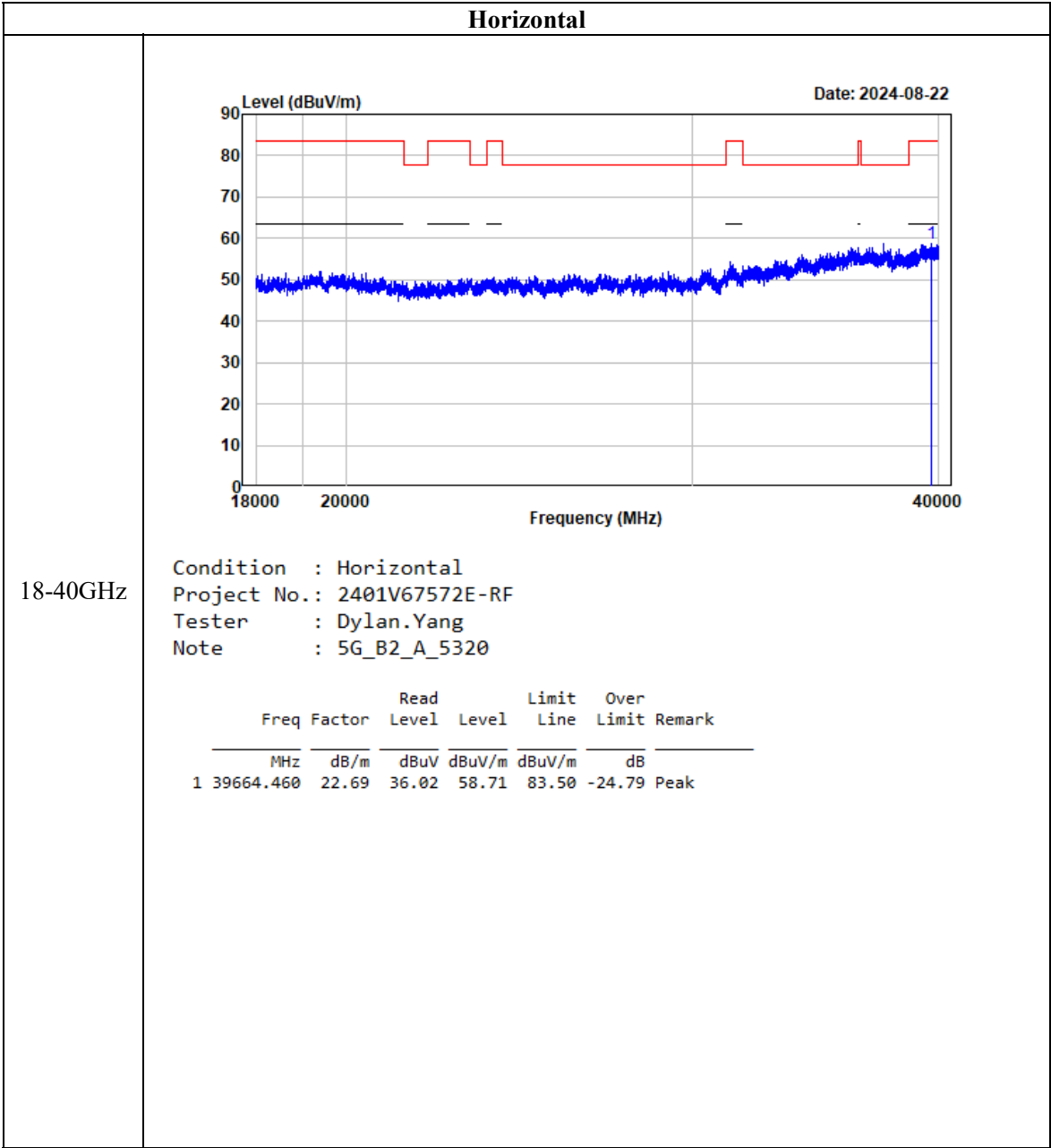


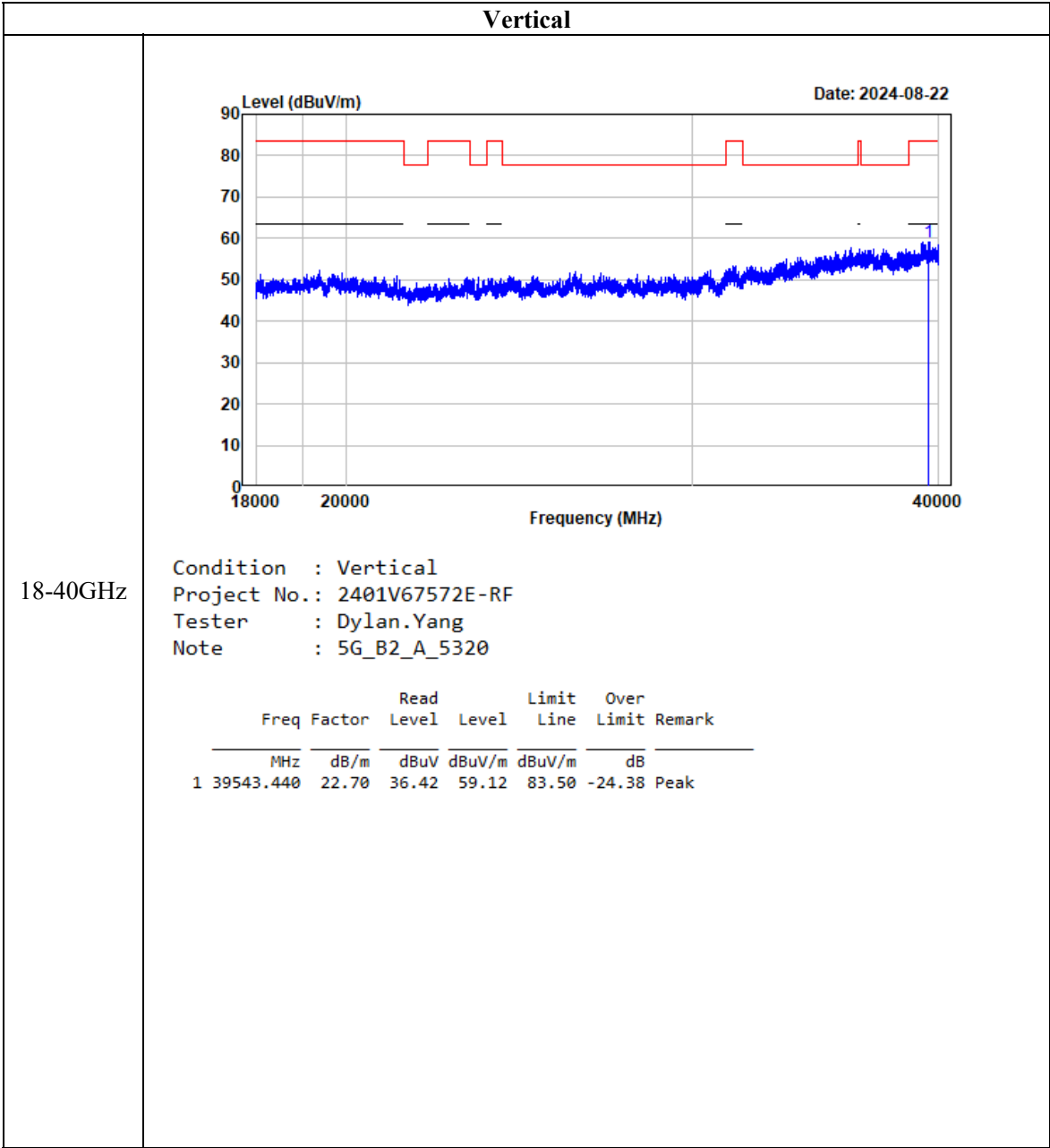




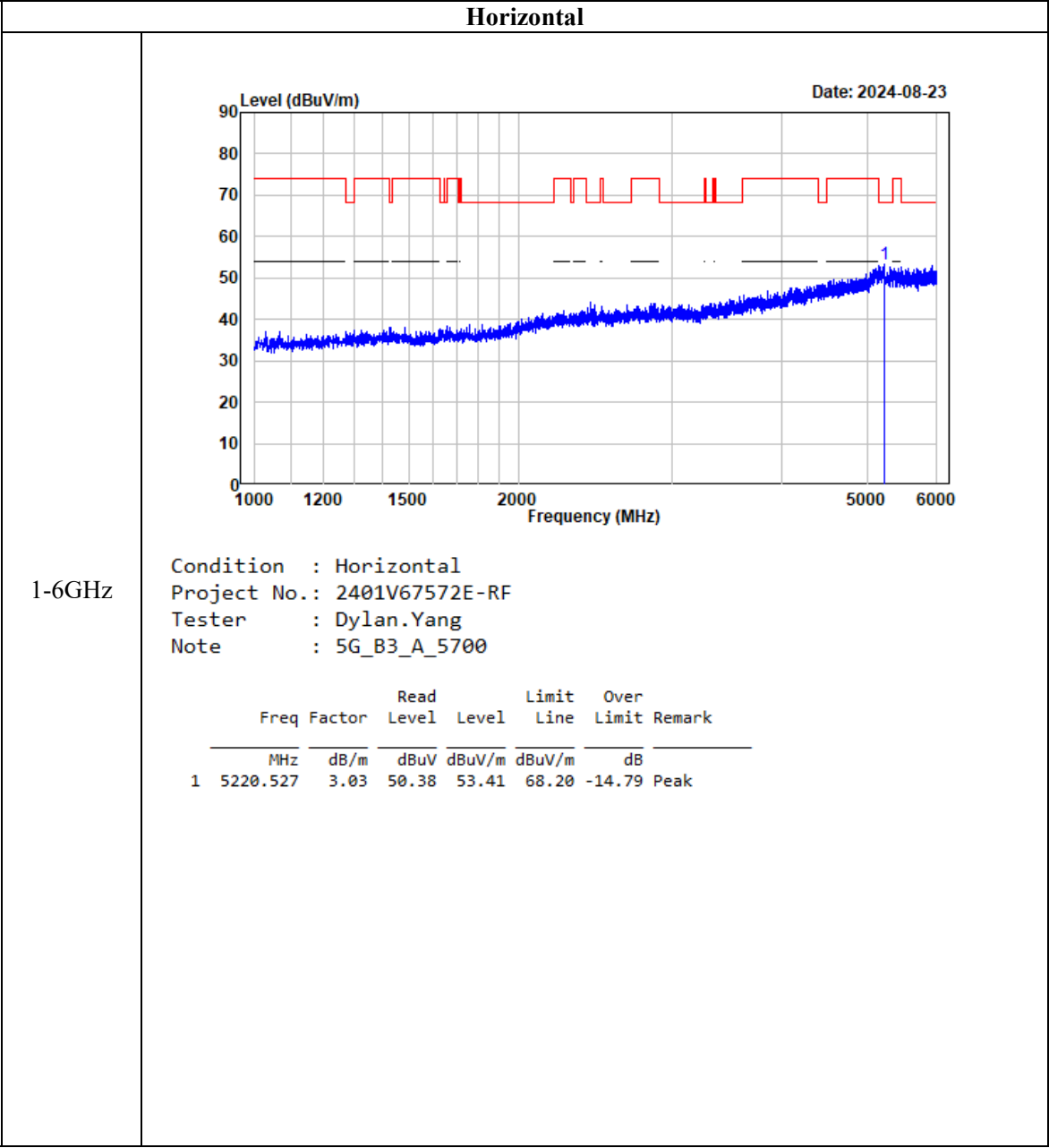


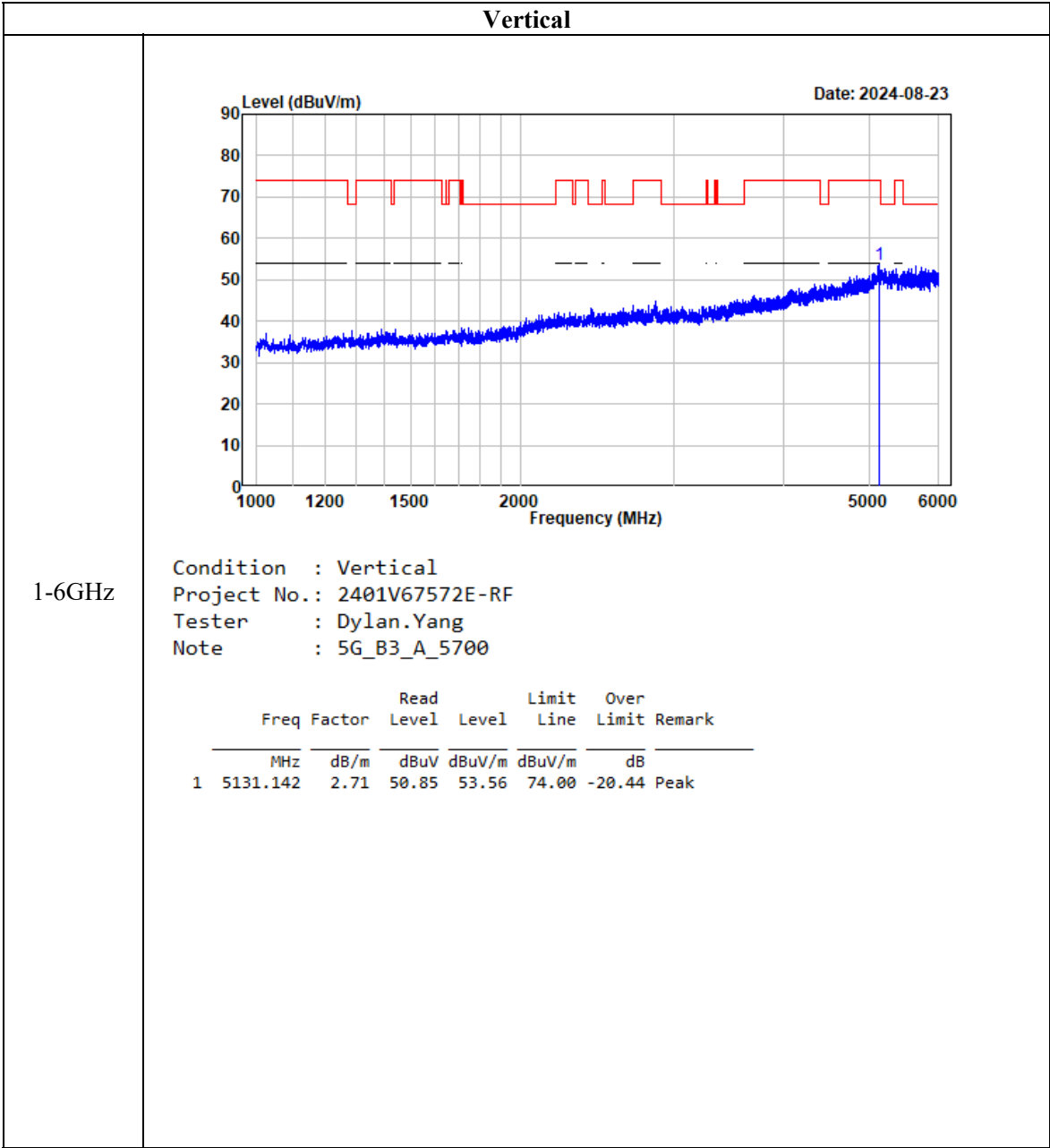




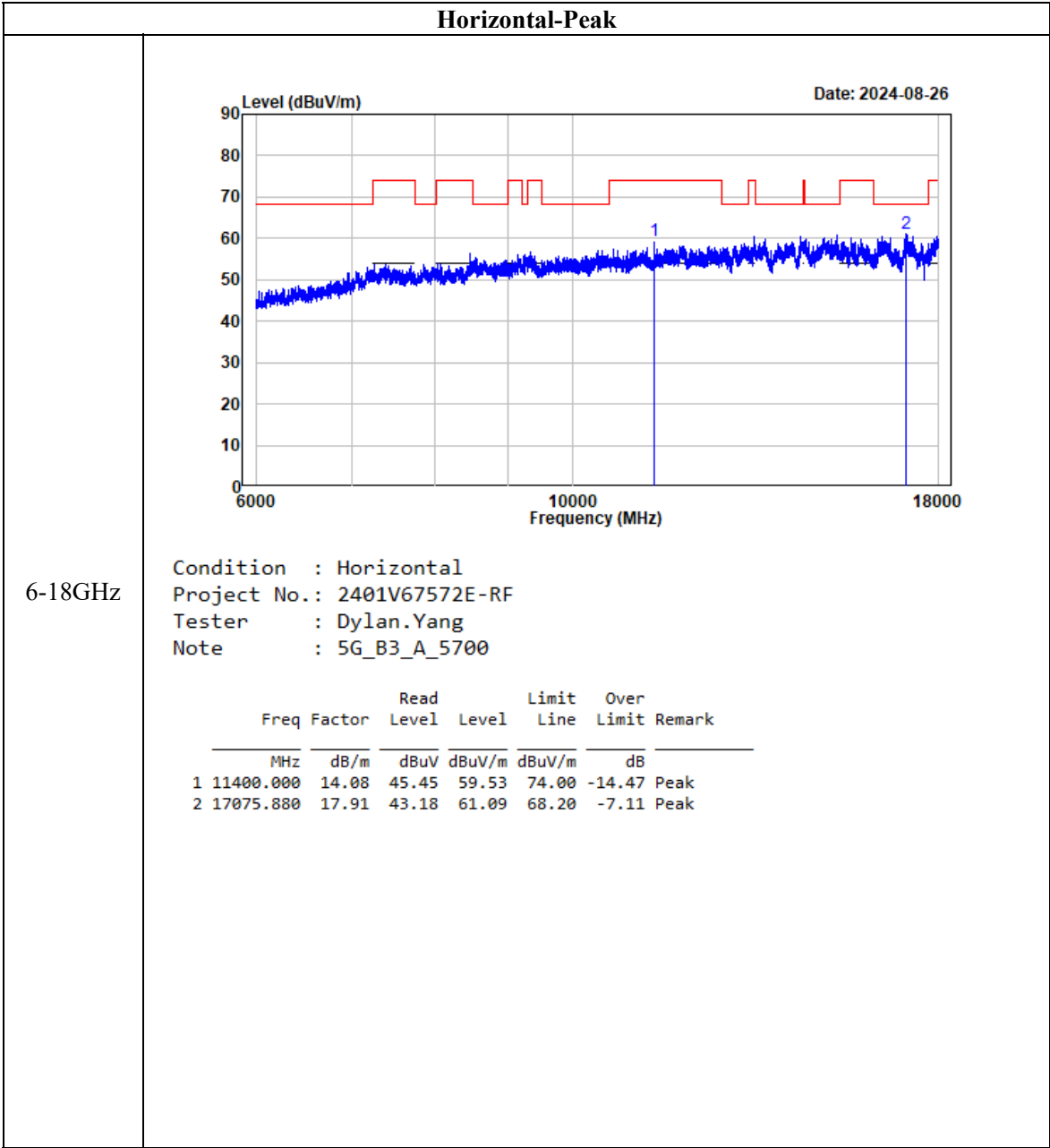


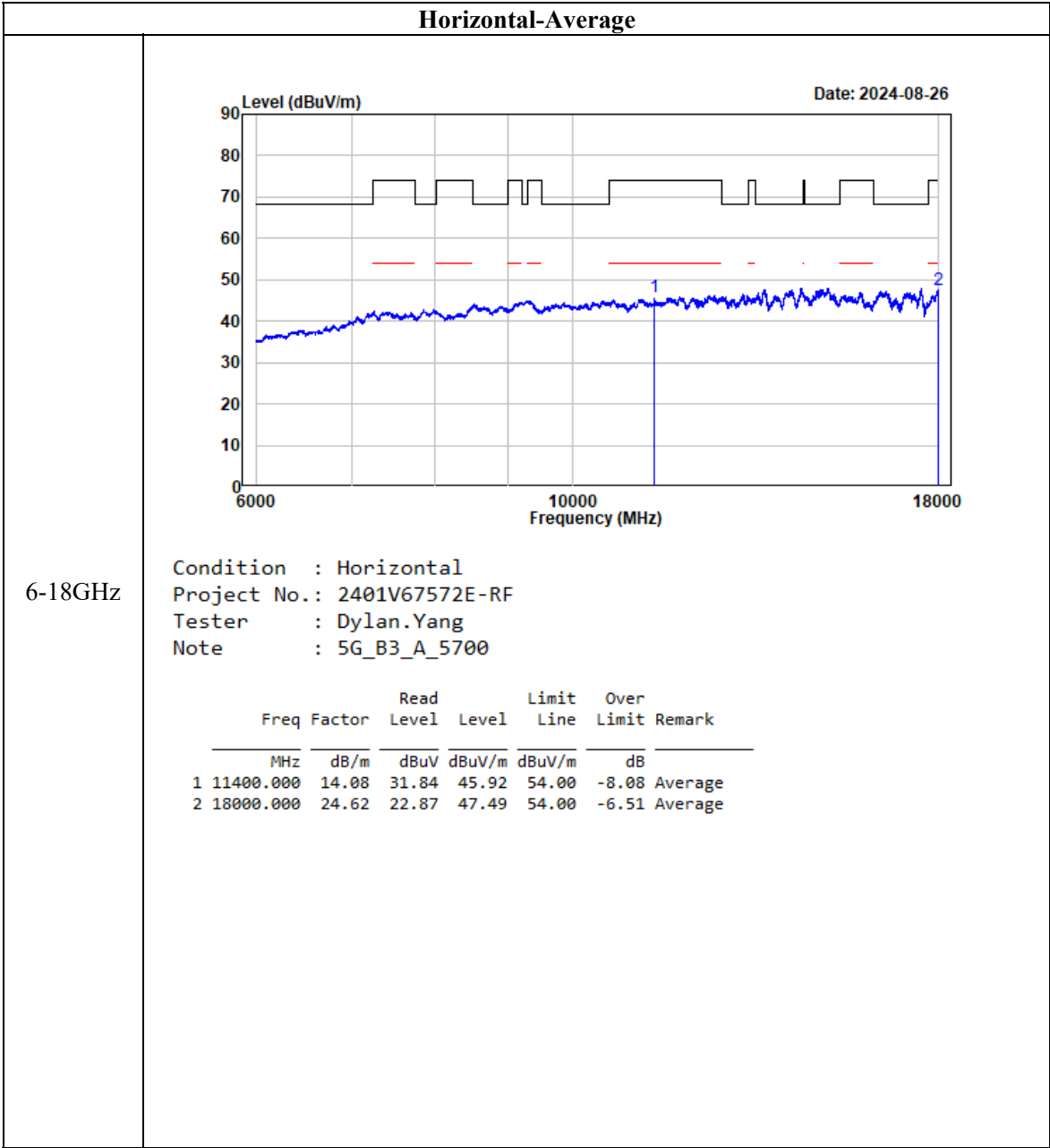
5470-5725MHz:

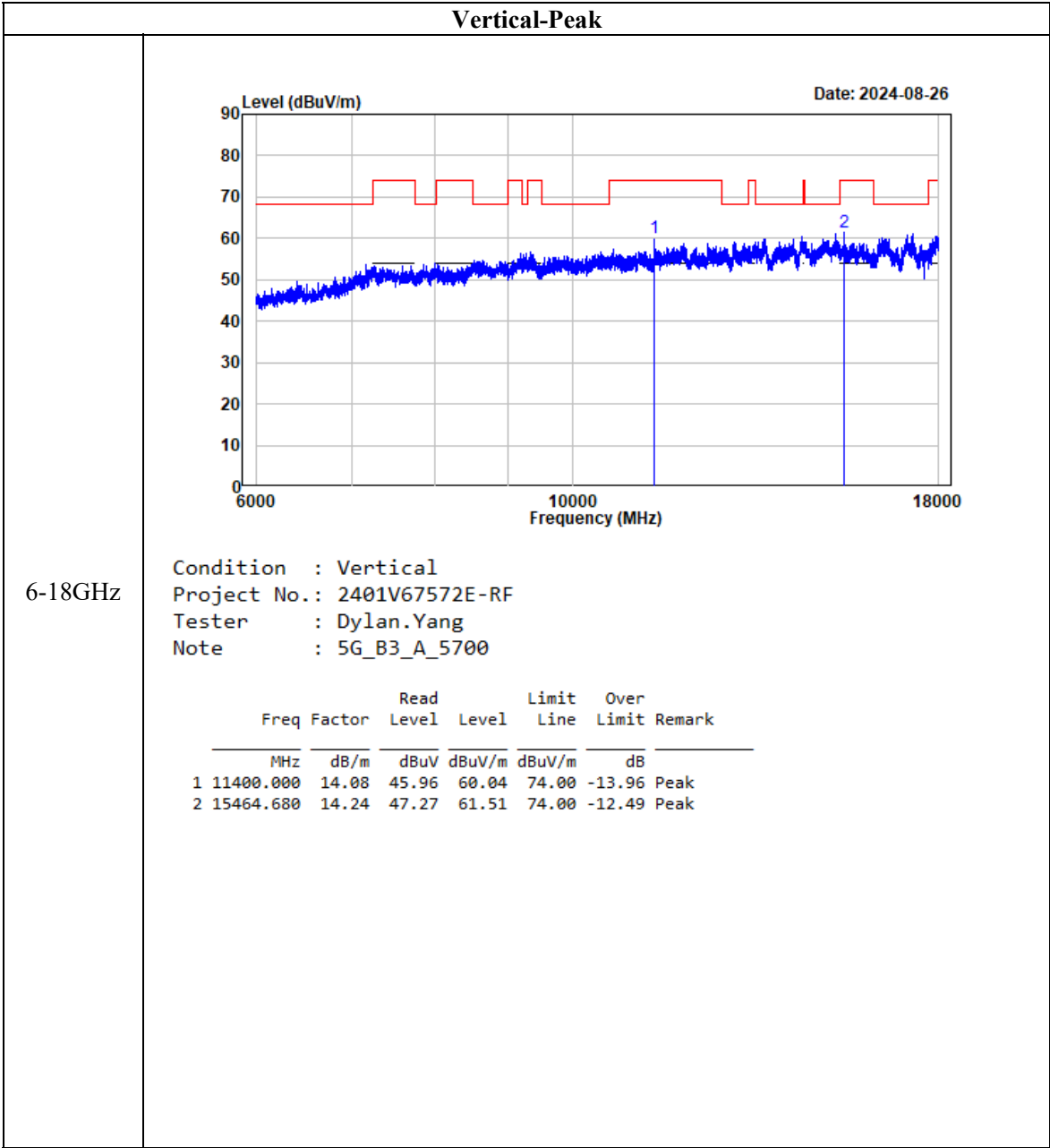


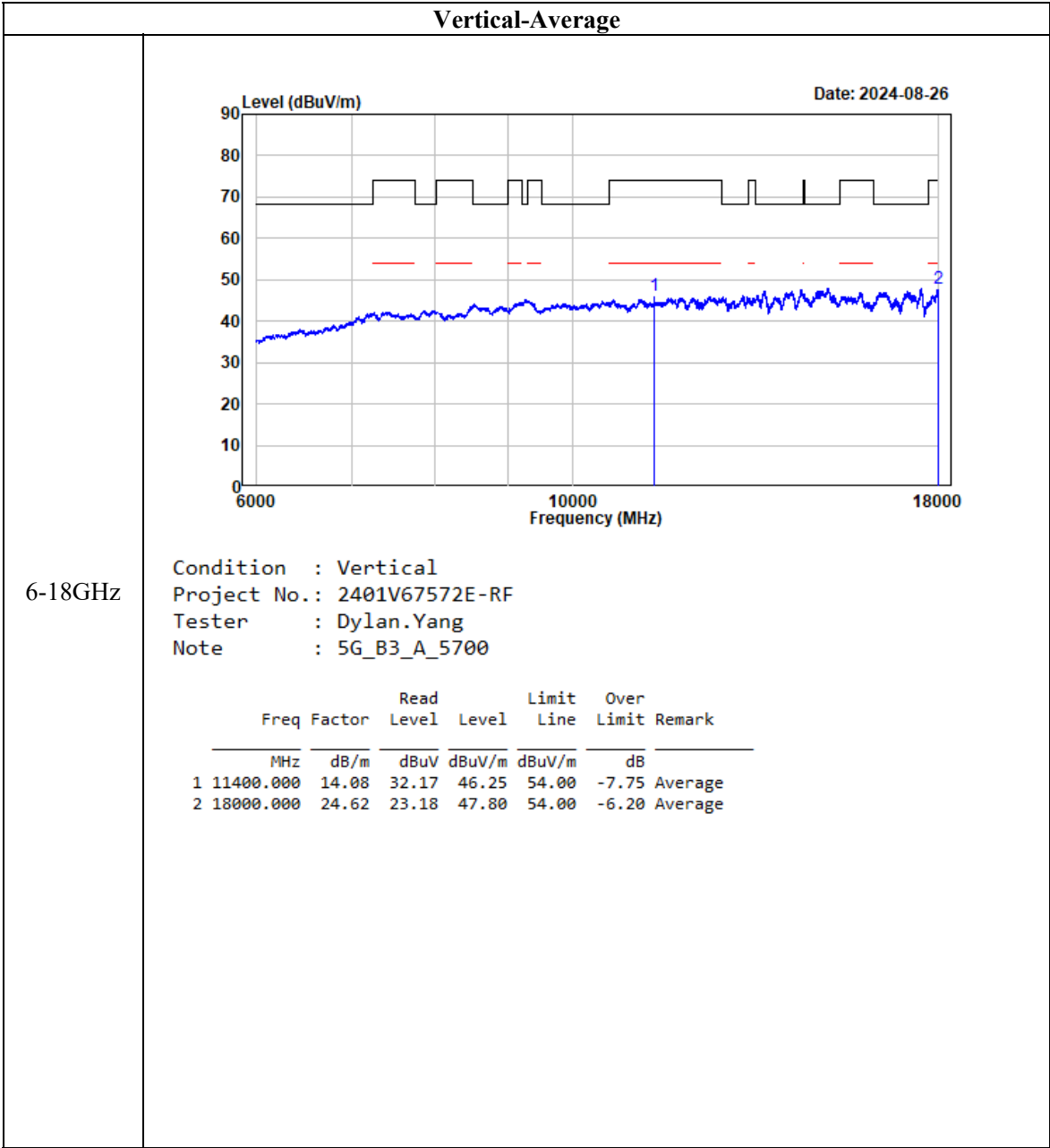


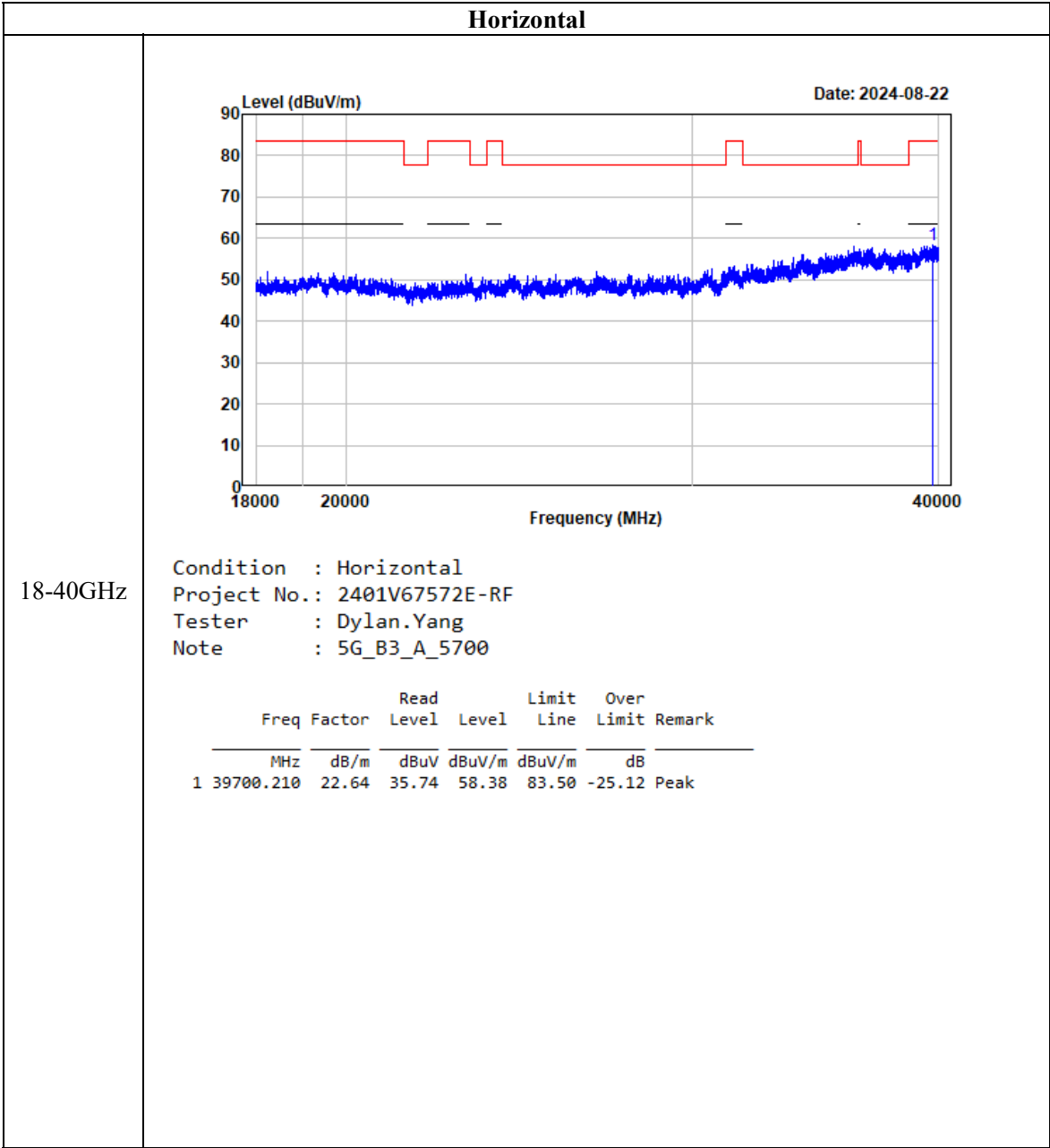


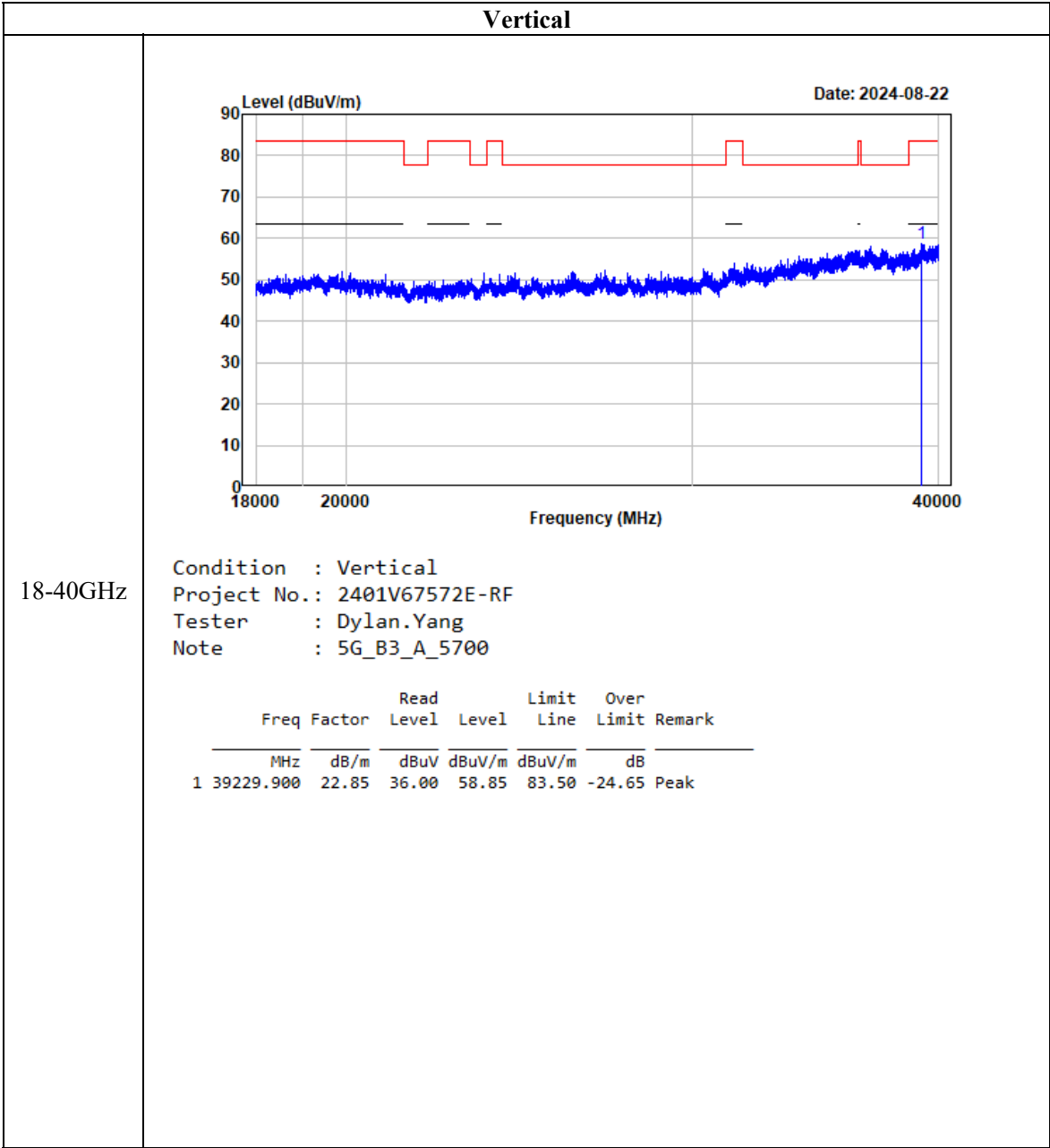




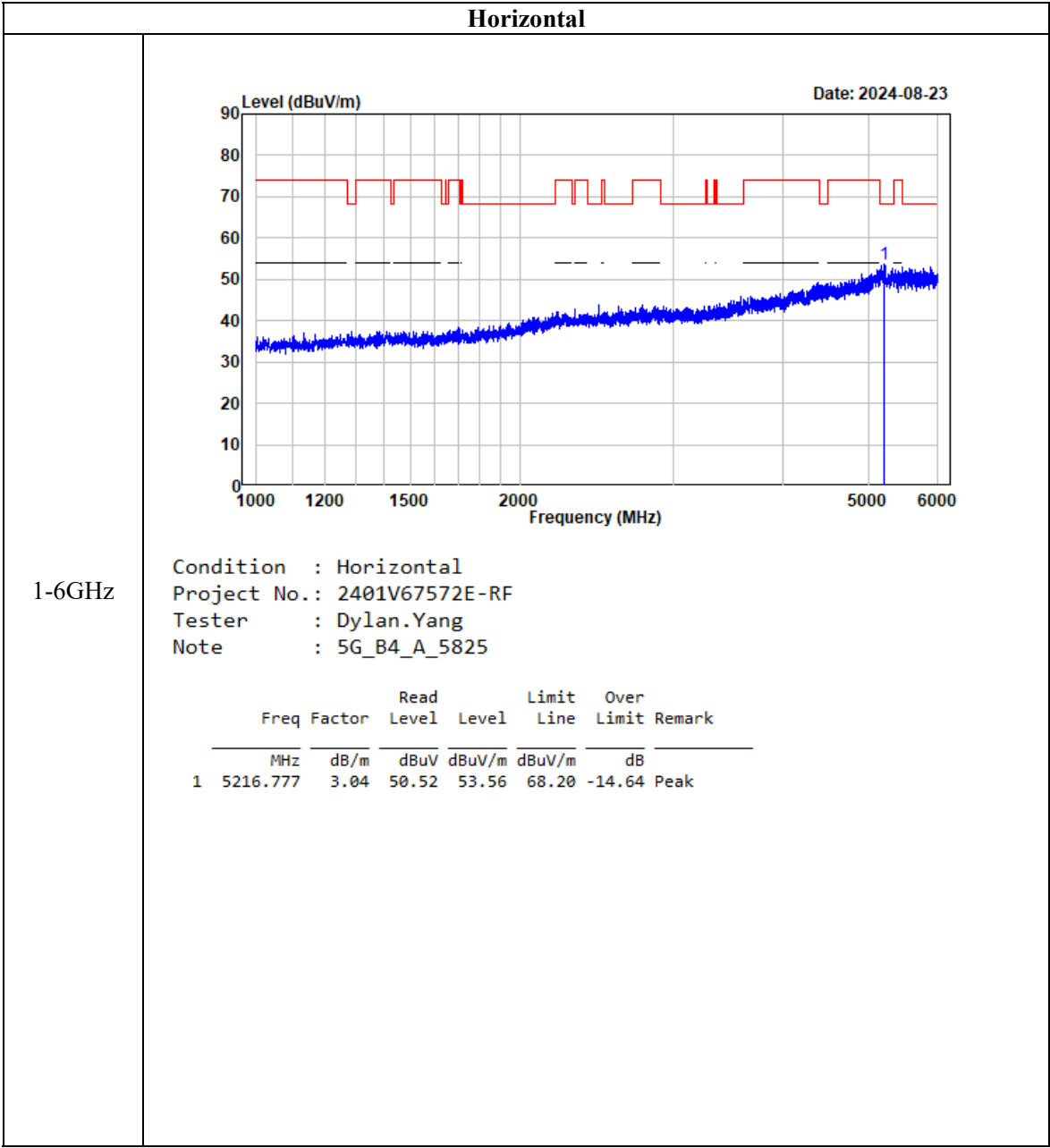


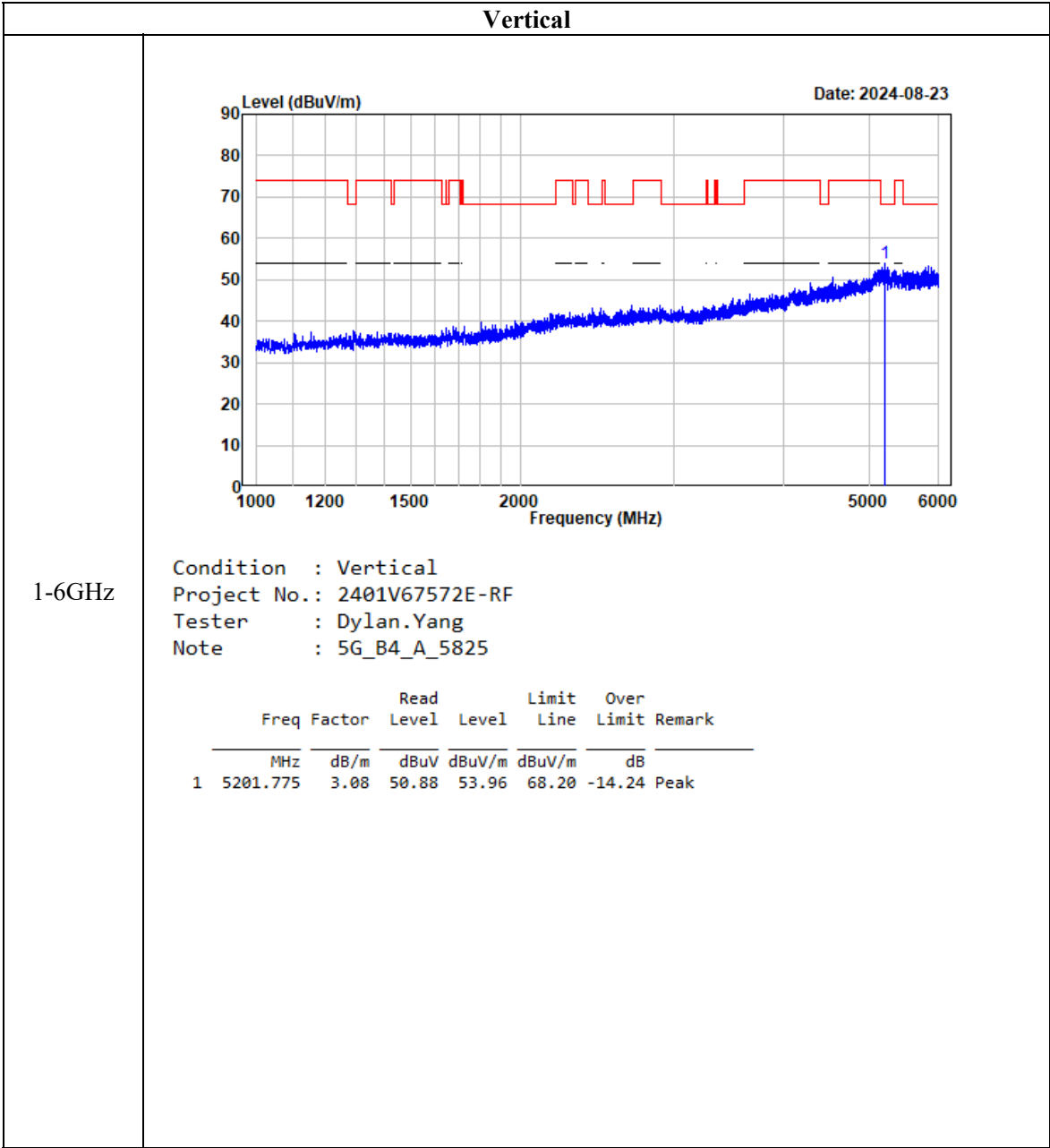




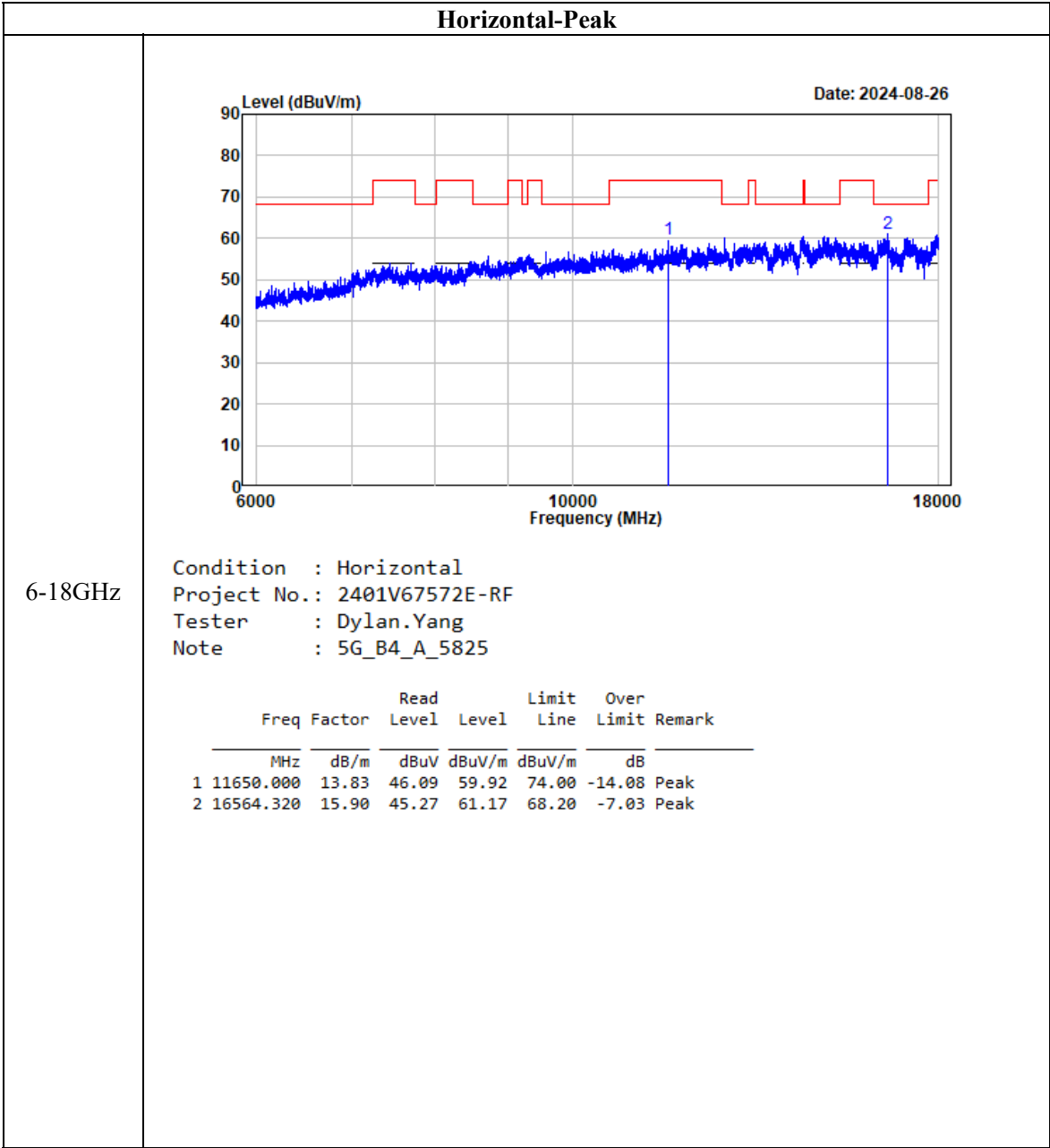


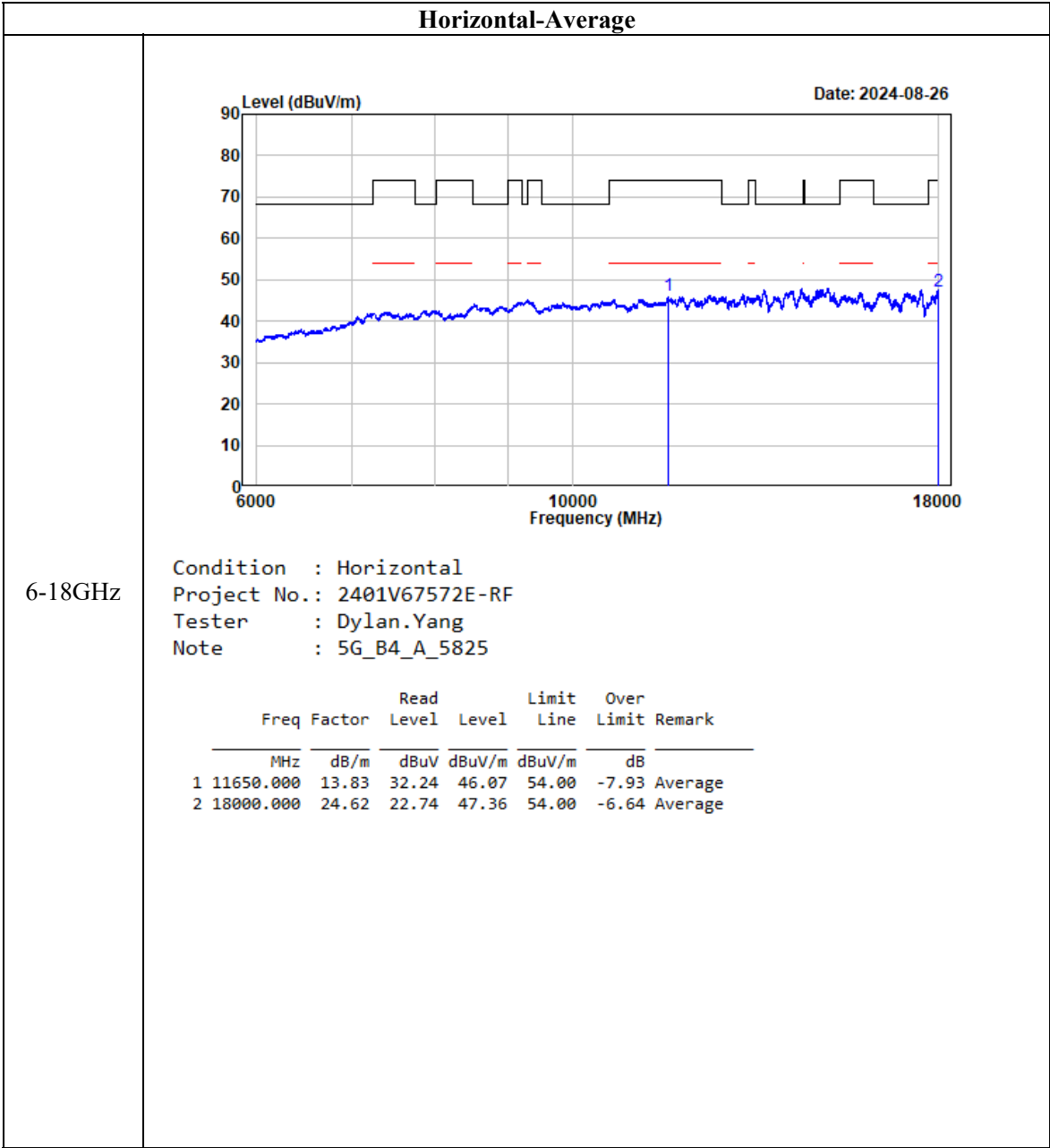
5725-5850 MHz:

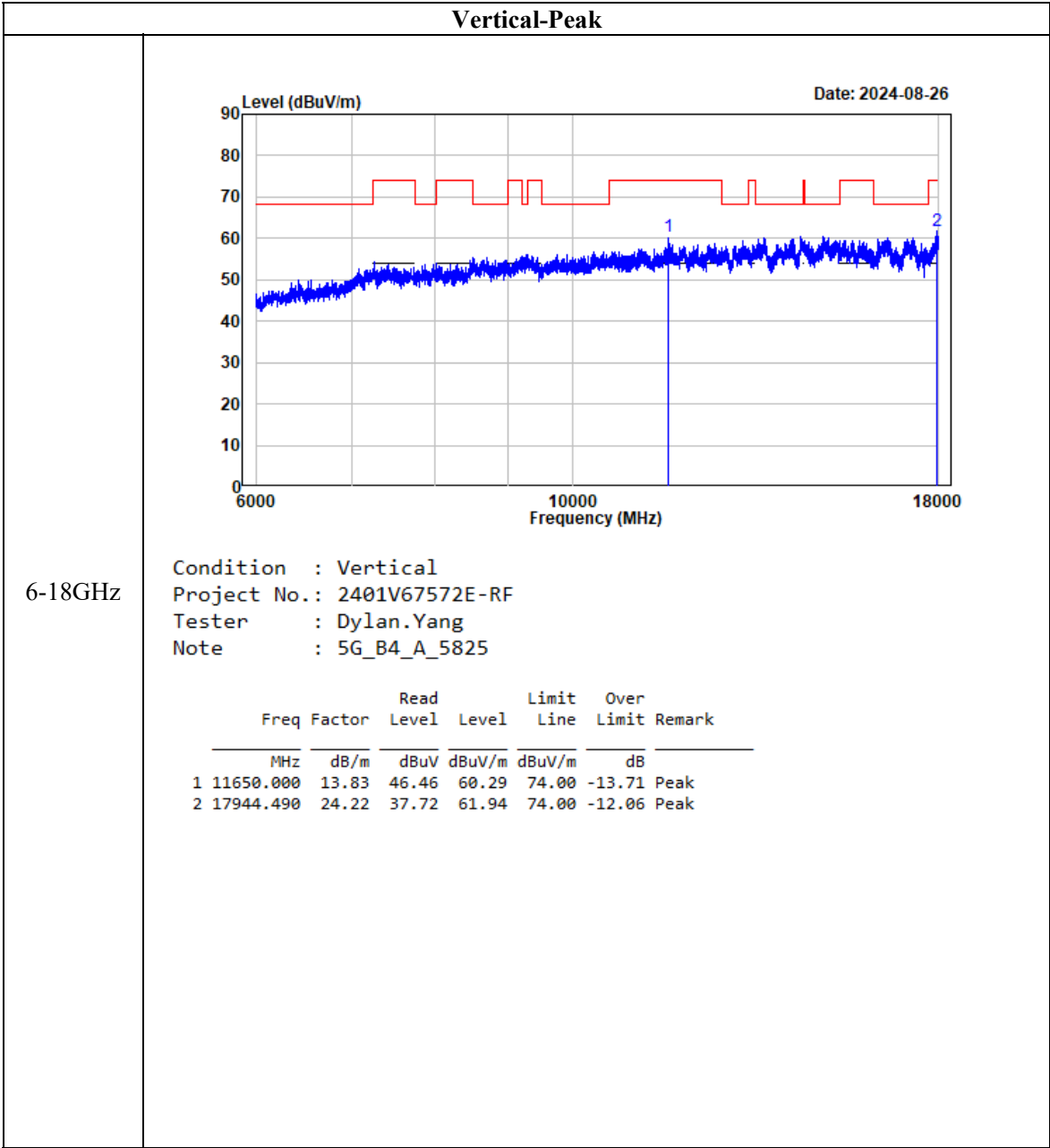


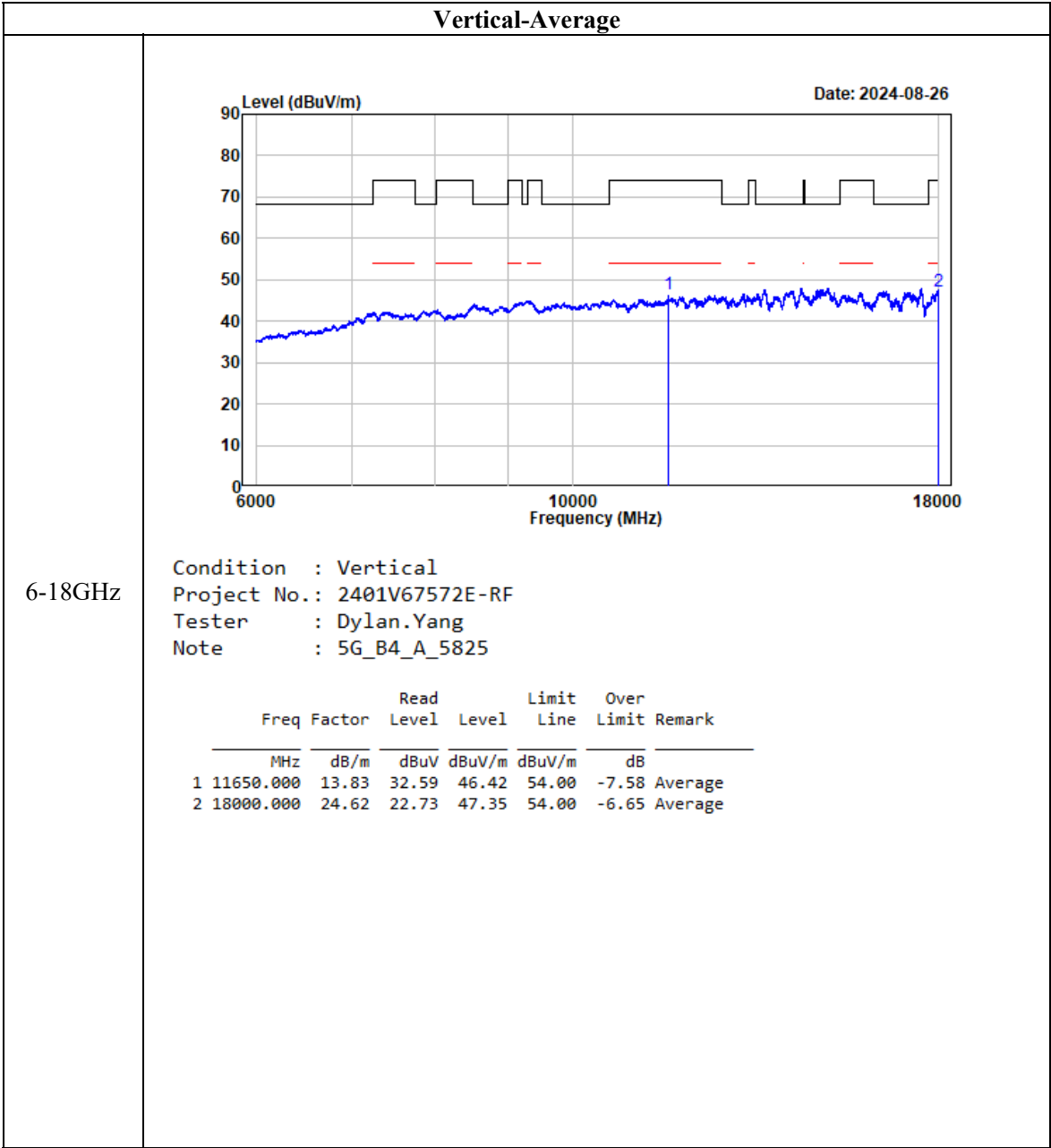


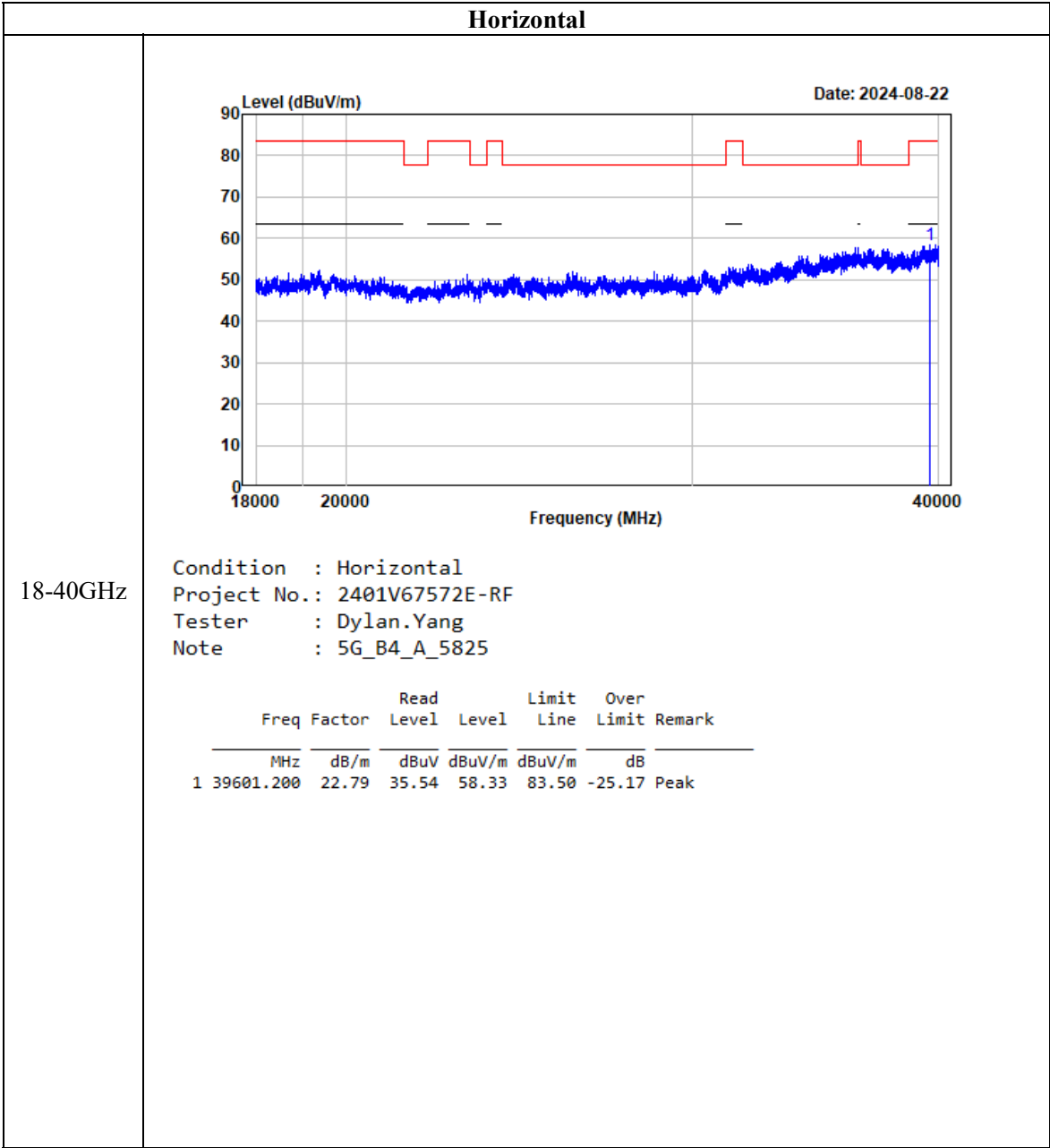


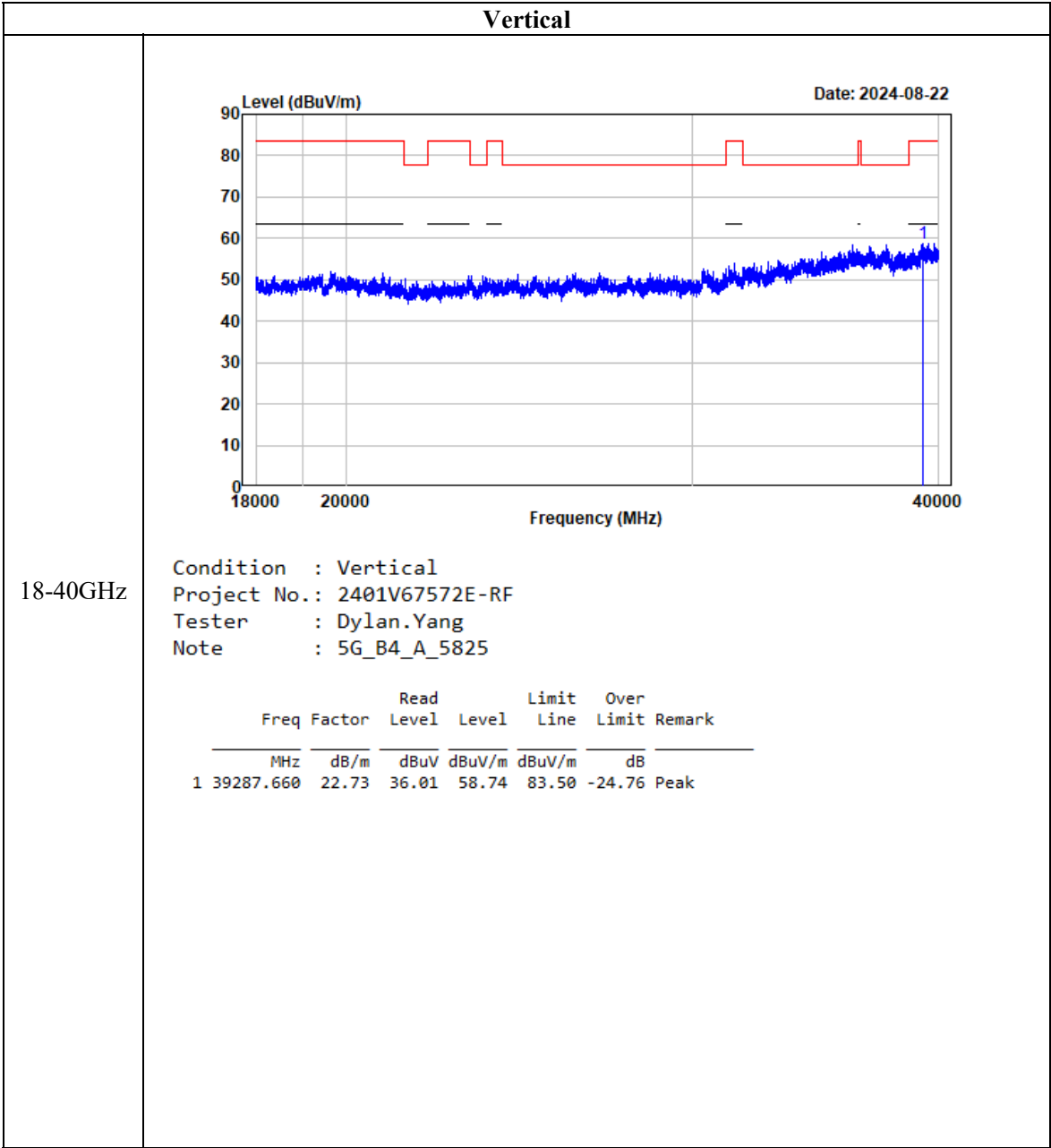












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**FCC §15.407(a), (e) - 26 dB & 6dB EMISSION BANDWIDTH**

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**Applicable Standard**

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

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

**Test Procedure**

According to KDB789033 D02 section II.C and section II.D

**1. Emission Bandwidth (EBW)**

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

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

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

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

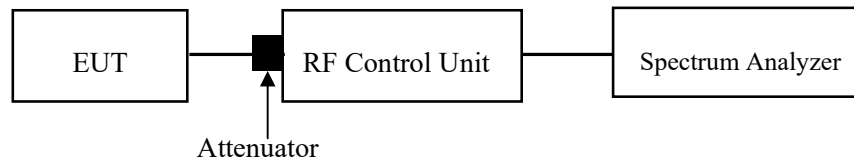
**3. 99% Occupied Bandwidth:**

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (\text{OBW}/\text{RBW})]$  below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



## Test Data

### Environmental Conditions

|                    |          |
|--------------------|----------|
| Temperature:       | 25~26 °C |
| Relative Humidity: | 55~57 %  |
| ATM Pressure:      | 101 kPa  |

*The testing was performed by Lee Li from 2024-08-10 to 2024-08-29.*

*EUT operation mode: Transmitting*

***Test Result: Compliant. Please refer to the Appendix.***



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

### Applicable Standard

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

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

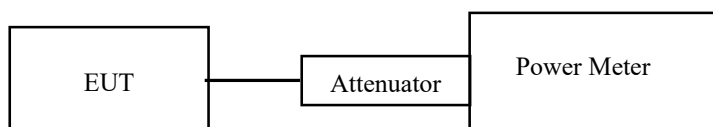
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall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

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

### Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method PM-G should be applied

- Place the EUT on a bench and set it in transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.



**Test Data****Environmental Conditions**

|                           |          |
|---------------------------|----------|
| <b>Temperature:</b>       | 25~26 °C |
| <b>Relative Humidity:</b> | 55~57 %  |
| <b>ATM Pressure:</b>      | 101 kPa  |

*The testing was performed by Lee Li and Tom Tan from 2024-08-10 to 2024-08-29.*

*EUT operation mode: Transmitting*

***Test Result: Compliant. Please refer to the Appendix.***

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

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

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

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

### **Test Procedure**

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle  $\geq 98\%$

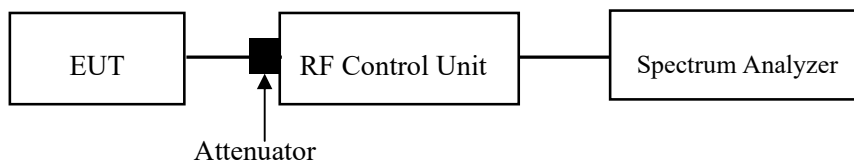
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle  $< 98\%$ , duty cycle variations are less than  $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle  $< 98\%$ , duty cycle variations exceed  $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.



**Test Data****Environmental Conditions**

|                           |          |
|---------------------------|----------|
| <b>Temperature:</b>       | 25~26 °C |
| <b>Relative Humidity:</b> | 55~57 %  |
| <b>ATM Pressure:</b>      | 101 kPa  |

*The testing was performed by Lee Li and Tom Tan from 2024-08-10 to 2024-08-29.*

*EUT operation mode: Transmitting*

***Test Result: Compliant. Please refer to the Appendix.***

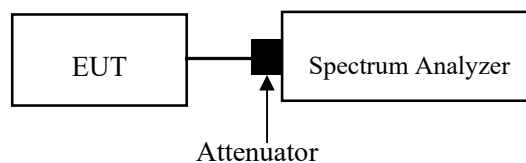
## C63.10 §11.6- DUTY CYCLE

### Test Procedure

According to ANSI C63.10-2013 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set  $RBW \geq OBW$  if possible; otherwise, set RBW to the largest available value.
- 3) Set  $VBW \geq RBW$ . Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are  $> 50/T$  and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if  $T \leq 16.7 \mu s$ .)



### Test Data

#### Environmental Conditions

|                    |          |
|--------------------|----------|
| Temperature:       | 25~26 °C |
| Relative Humidity: | 55~57 %  |
| ATM Pressure:      | 101 kPa  |

*The testing was performed by Tom Tan and Lee Li from 2024-08-10 to 2024-10-21.*

*EUT operation mode: Transmitting*

***Test Result: Compliant. Please refer to the Appendix.***

## **EUT PHOTOGRAPHS**

Please refer to the attachment 2401V67572E-RF External photo and 2401V67572E-RF Internal photo.

## **TEST SETUP PHOTOGRAPHS**

Please refer to the attachment 2401V67572E-RFC Test Setup photo.

## APPENDIX

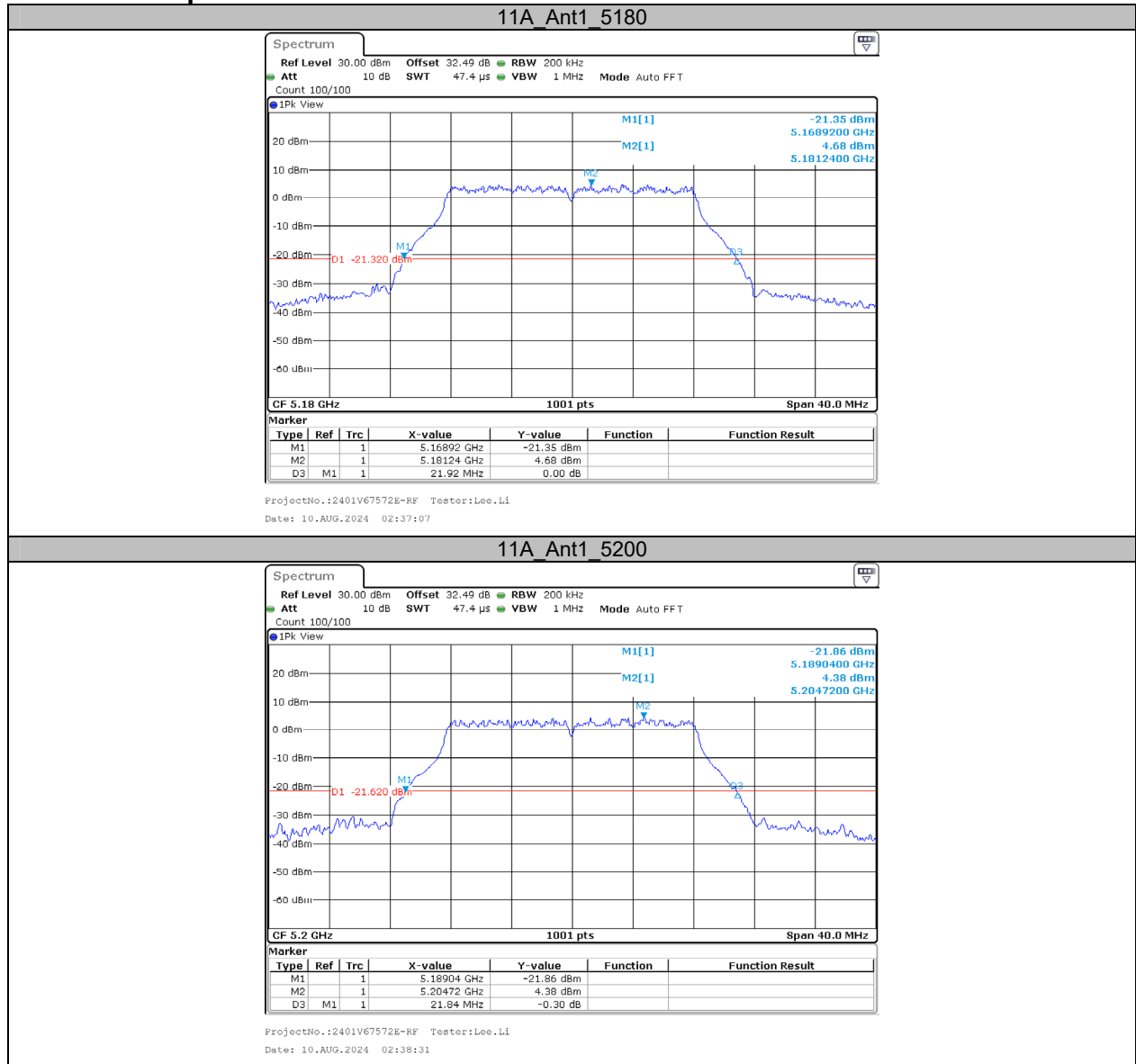
### Appendix A1: Emission Bandwidth

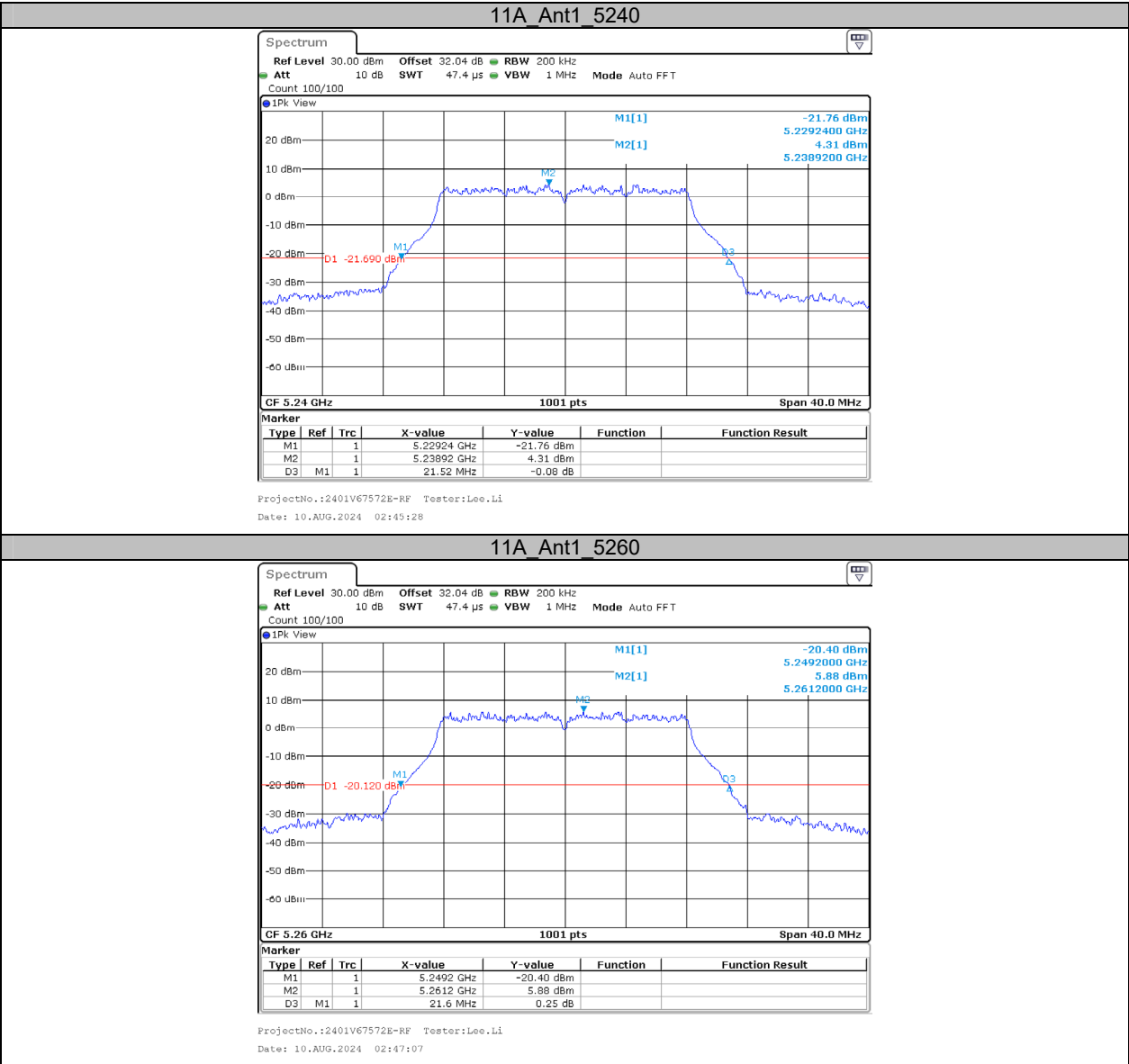
#### Test Result

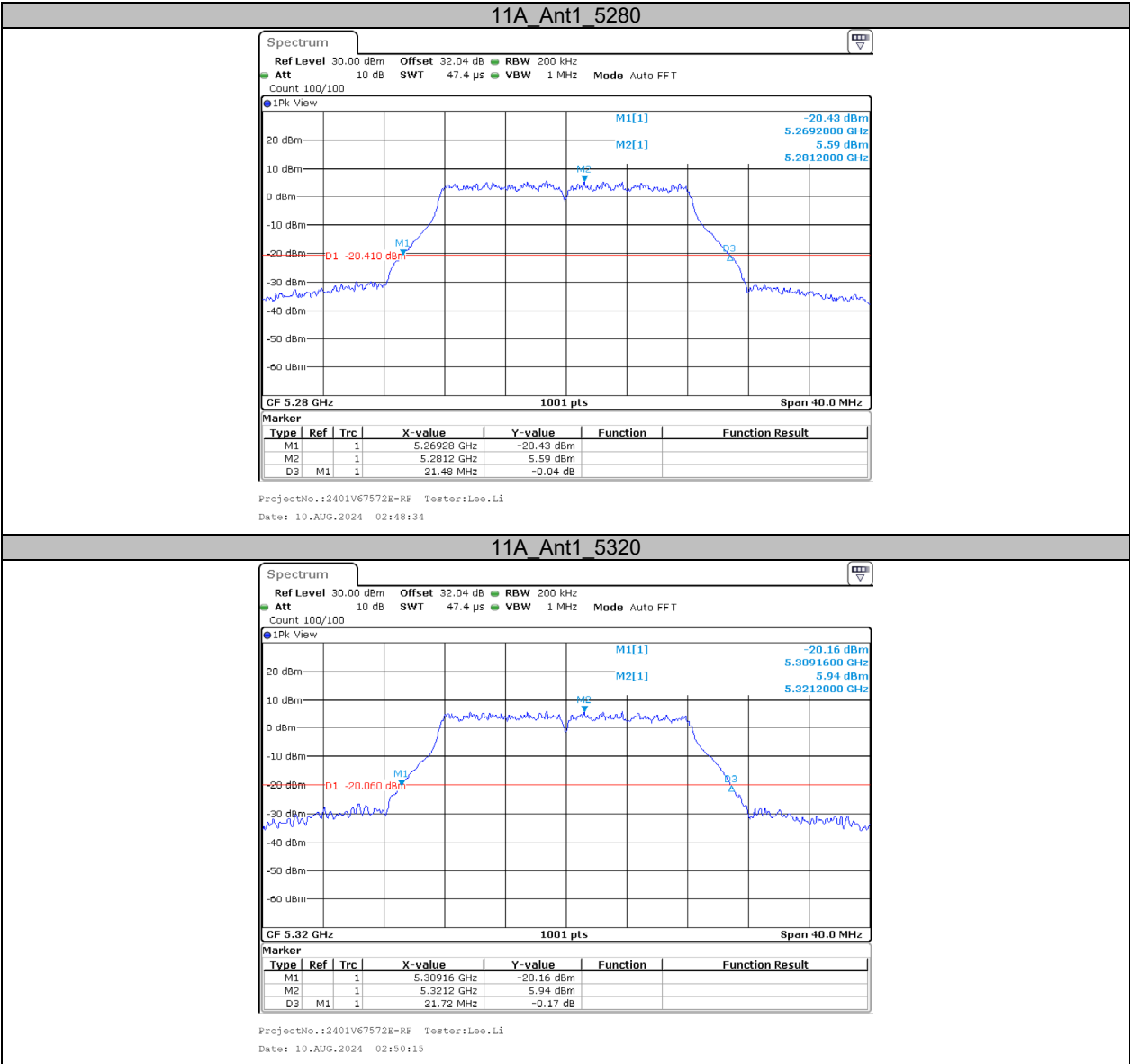
| Test Mode  | Antenna | Channel | 26dB EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|---------|----------------|---------|---------|------------|---------|
| 11A        | Ant1    | 5180    | 21.92          | 5168.92 | 5190.84 | ---        | ---     |
|            |         | 5200    | 21.84          | 5189.04 | 5210.88 | ---        | ---     |
|            |         | 5240    | 21.52          | 5229.24 | 5250.76 | ---        | ---     |
|            |         | 5260    | 21.60          | 5249.20 | 5270.80 | ---        | ---     |
|            |         | 5280    | 21.48          | 5269.28 | 5290.76 | ---        | ---     |
|            |         | 5320    | 21.72          | 5309.16 | 5330.88 | ---        | ---     |
|            |         | 5500    | 21.76          | 5489.04 | 5510.80 | ---        | ---     |
|            |         | 5580    | 21.52          | 5569.20 | 5590.72 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180    | 21.80          | 5688.96 | 5710.76 | ---        | ---     |
|            |         | 5180    | 22.04          | 5168.88 | 5190.92 | ---        | ---     |
|            |         | 5200    | 22.04          | 5188.96 | 5211.00 | ---        | ---     |
|            |         | 5240    | 21.92          | 5228.92 | 5250.84 | ---        | ---     |
|            |         | 5260    | 22.00          | 5249.00 | 5271.00 | ---        | ---     |
|            |         | 5280    | 21.88          | 5268.92 | 5290.80 | ---        | ---     |
|            |         | 5320    | 21.76          | 5309.12 | 5330.88 | ---        | ---     |
|            |         | 5500    | 22.04          | 5488.88 | 5510.92 | ---        | ---     |
| 11AC40SISO | Ant1    | 5580    | 22.04          | 5568.96 | 5591.00 | ---        | ---     |
|            |         | 5700    | 22.08          | 5688.92 | 5711.00 | ---        | ---     |
|            |         | 5190    | 41.20          | 5169.36 | 5210.56 | ---        | ---     |
|            |         | 5230    | 41.36          | 5209.20 | 5250.56 | ---        | ---     |
|            |         | 5270    | 41.04          | 5249.44 | 5290.48 | ---        | ---     |
|            |         | 5310    | 41.20          | 5289.44 | 5330.64 | ---        | ---     |
|            |         | 5510    | 41.36          | 5489.44 | 5530.80 | ---        | ---     |
|            |         | 5550    | 41.20          | 5529.52 | 5570.72 | ---        | ---     |
| 11AX20SISO | Ant1    | 5670    | 42.00          | 5649.20 | 5691.20 | ---        | ---     |
|            |         | 5180    | 22.76          | 5168.48 | 5191.24 | ---        | ---     |
|            |         | 5200    | 22.36          | 5188.88 | 5211.24 | ---        | ---     |
|            |         | 5240    | 22.40          | 5228.76 | 5251.16 | ---        | ---     |
|            |         | 5260    | 22.12          | 5249.04 | 5271.16 | ---        | ---     |
|            |         | 5280    | 22.36          | 5268.76 | 5291.12 | ---        | ---     |
|            |         | 5320    | 22.40          | 5308.64 | 5331.04 | ---        | ---     |
|            |         | 5500    | 22.08          | 5488.88 | 5510.96 | ---        | ---     |
| 11AX40SISO | Ant1    | 5580    | 22.12          | 5568.80 | 5590.92 | ---        | ---     |
|            |         | 5700    | 22.32          | 5688.72 | 5711.04 | ---        | ---     |
|            |         | 5190    | 41.52          | 5169.20 | 5210.72 | ---        | ---     |
|            |         | 5230    | 41.84          | 5209.04 | 5250.88 | ---        | ---     |
|            |         | 5270    | 41.60          | 5249.20 | 5290.80 | ---        | ---     |
|            |         | 5310    | 41.84          | 5289.12 | 5330.96 | ---        | ---     |
|            |         | 5510    | 41.36          | 5489.20 | 5530.56 | ---        | ---     |
|            |         | 5550    | 41.68          | 5529.20 | 5570.88 | ---        | ---     |
|            | Ant1    | 5670    | 41.52          | 5649.36 | 5690.88 | ---        | ---     |

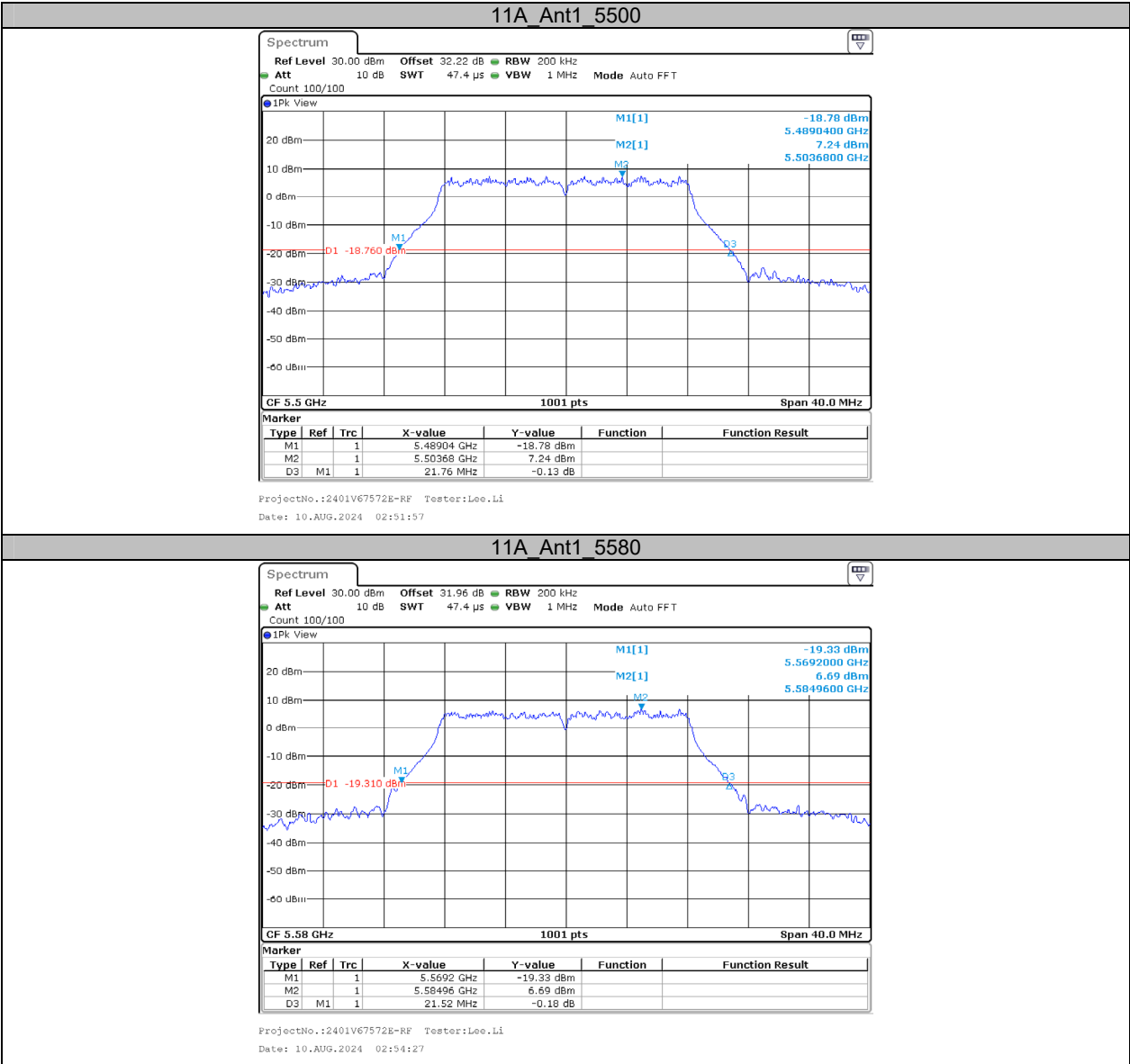


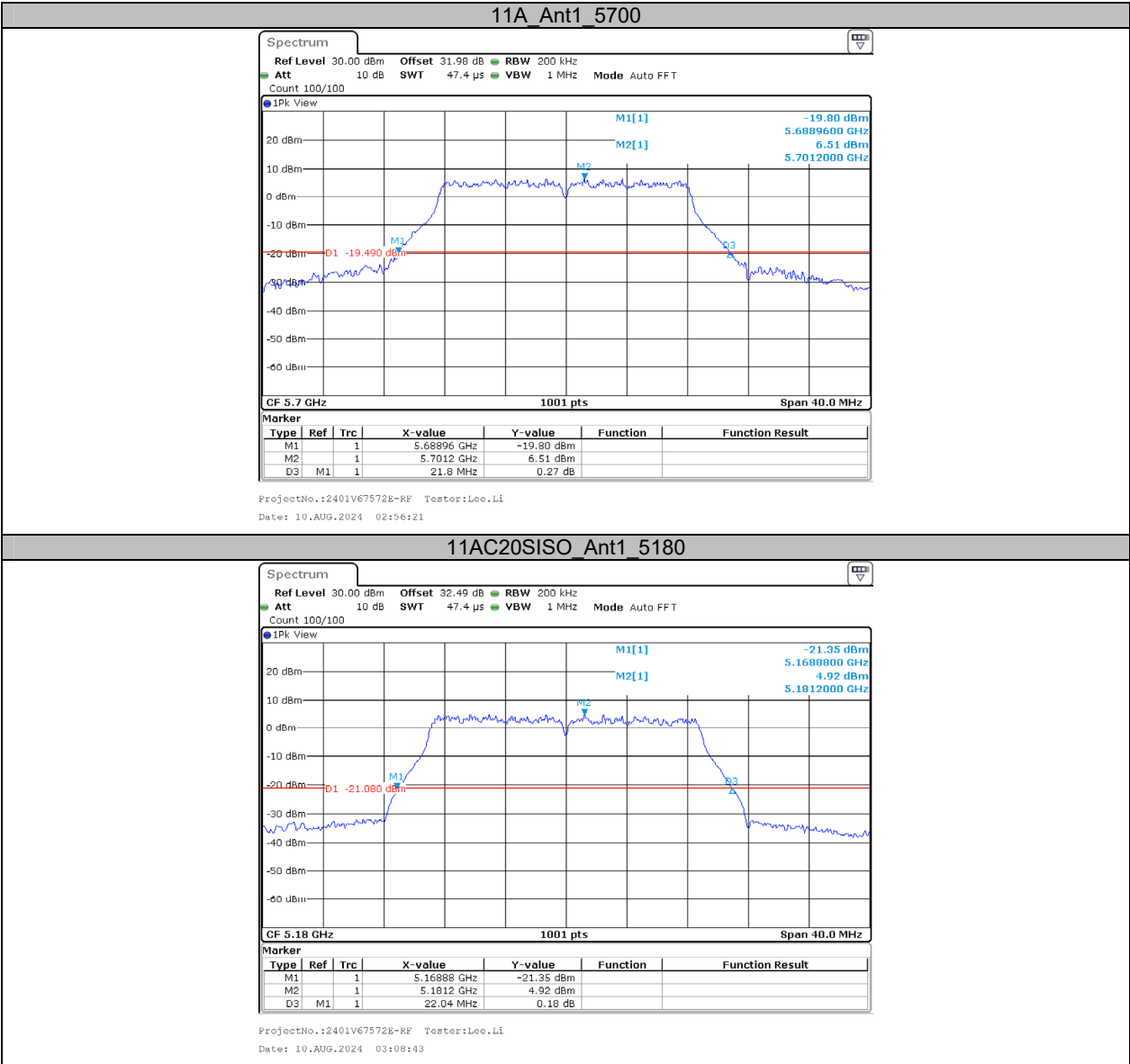
## Test Graphs

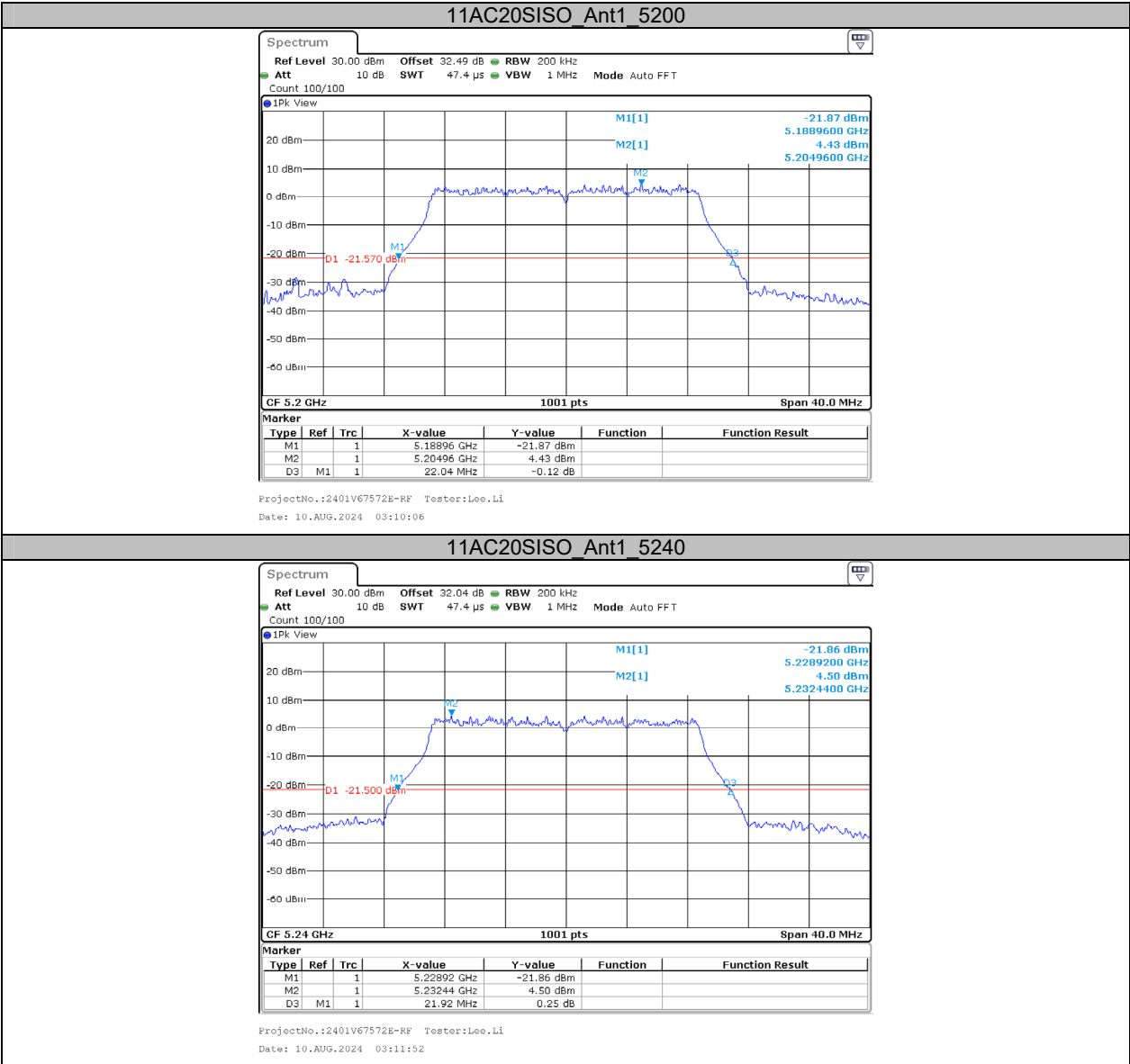


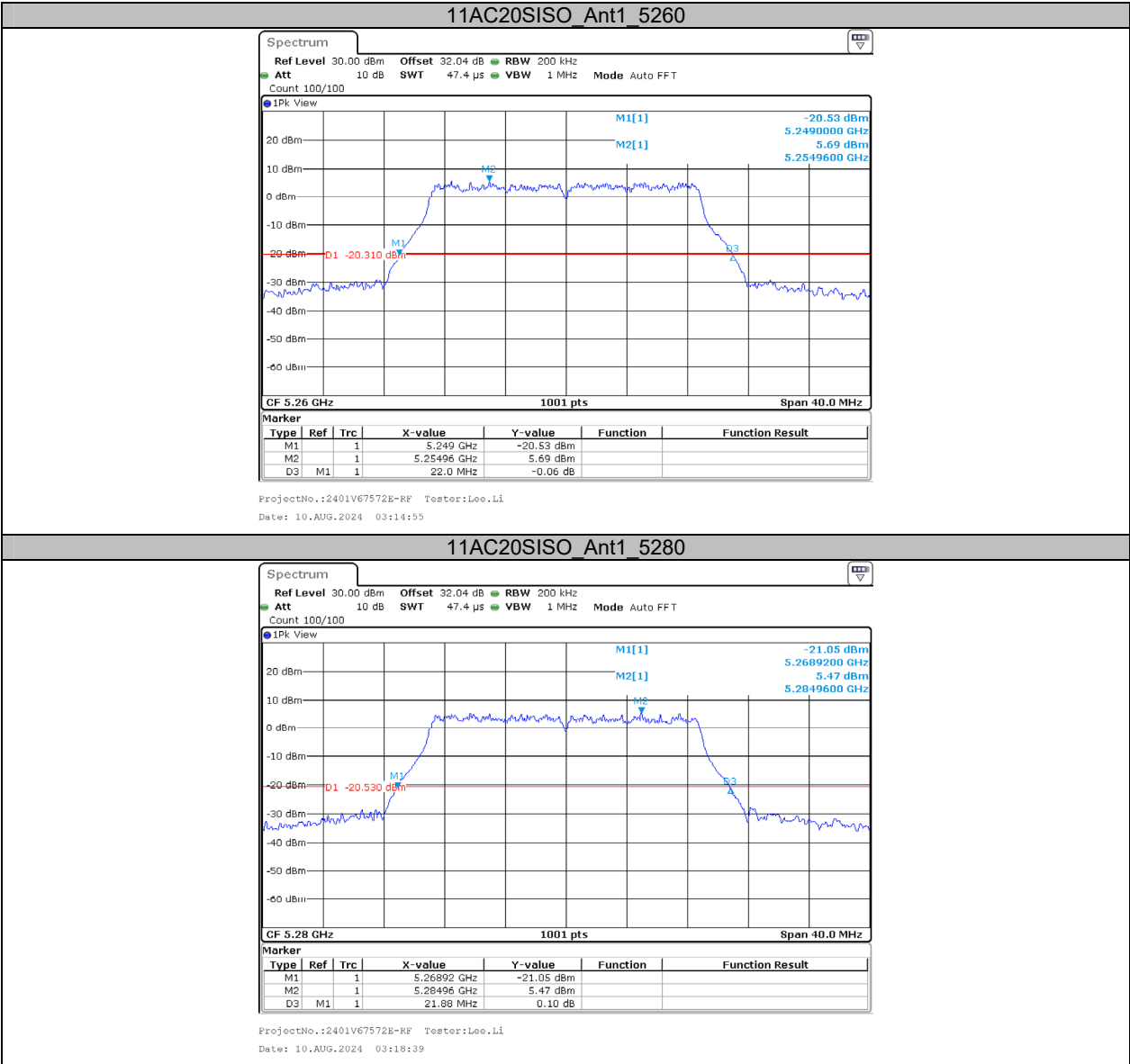


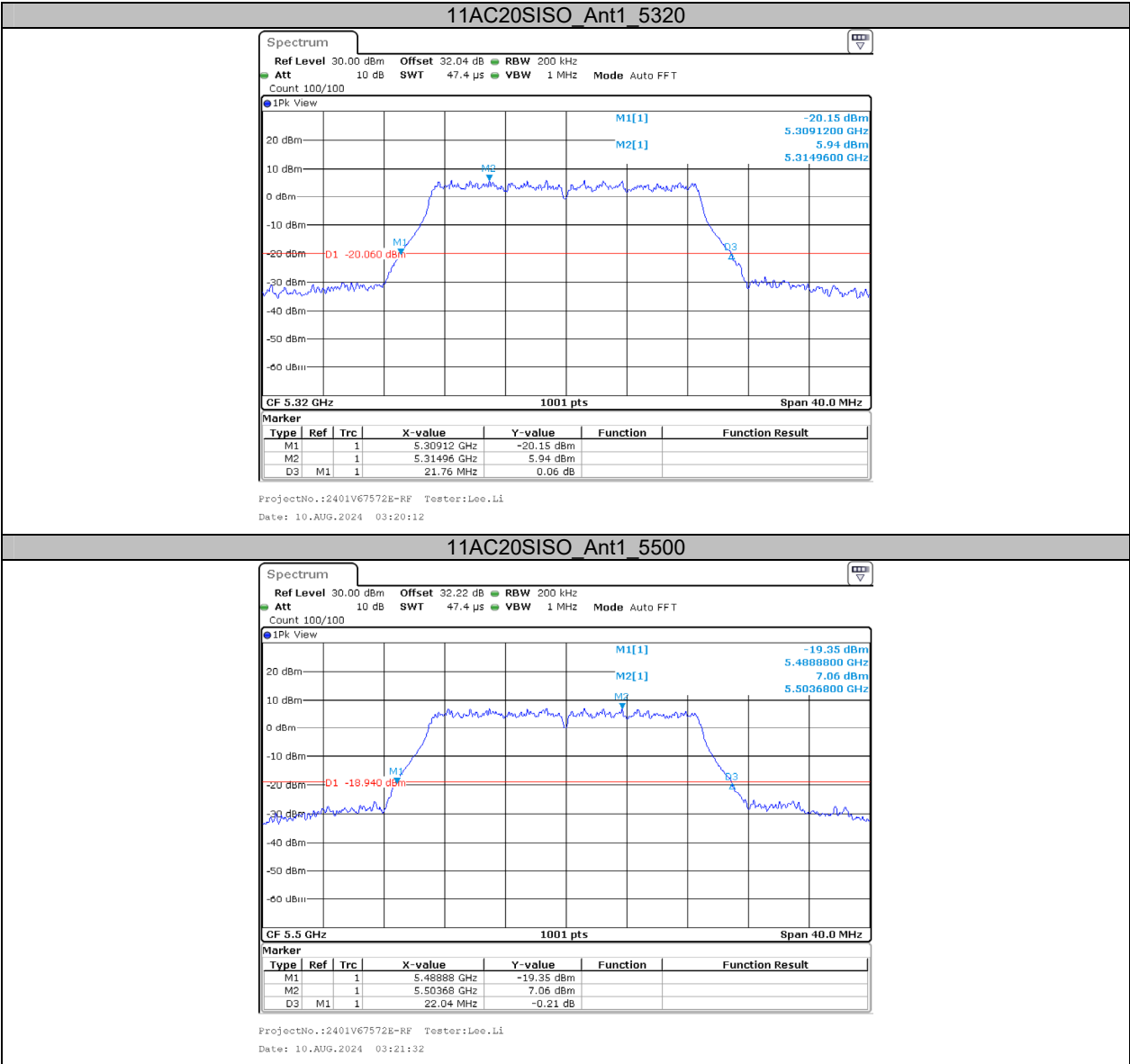




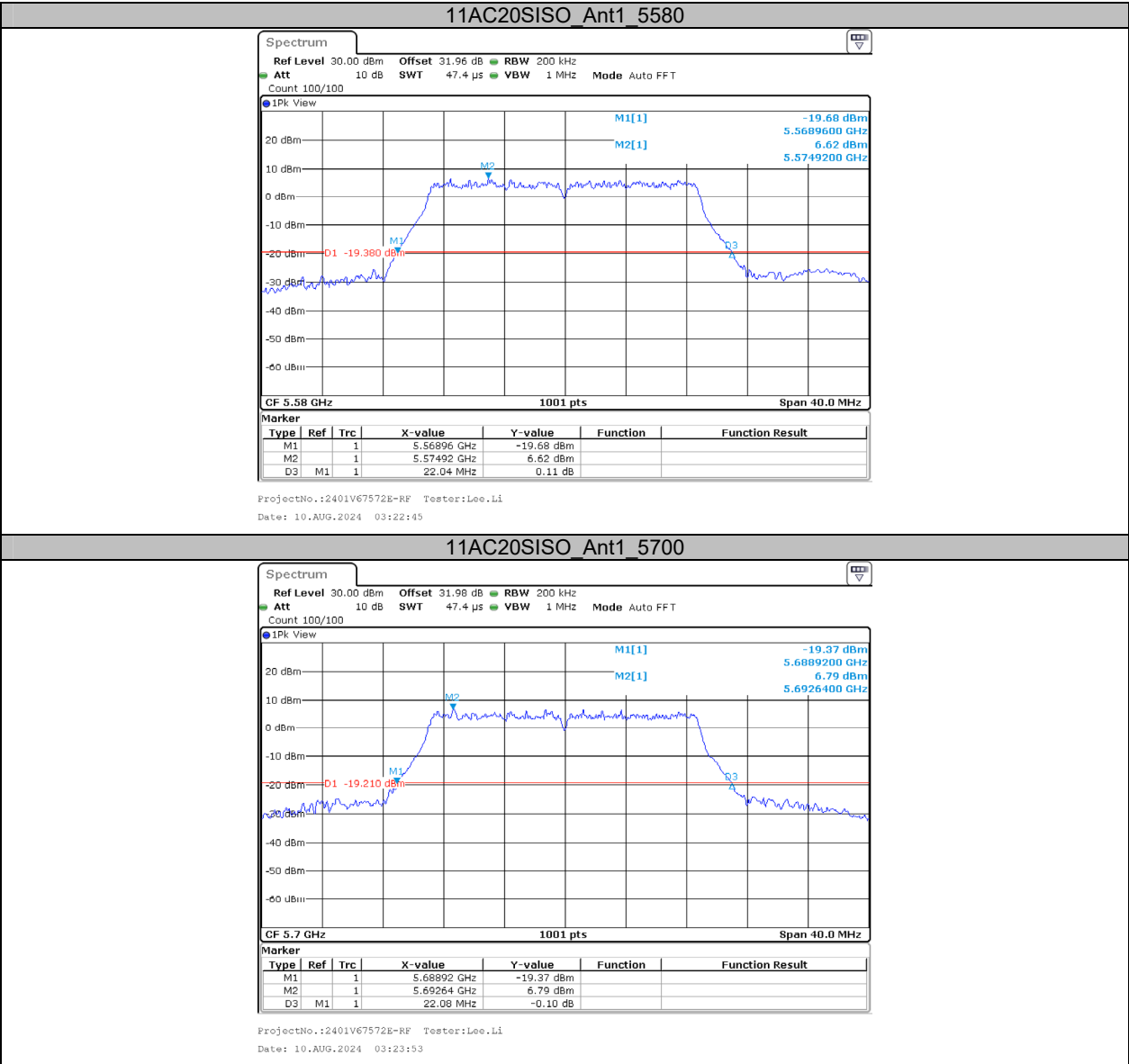


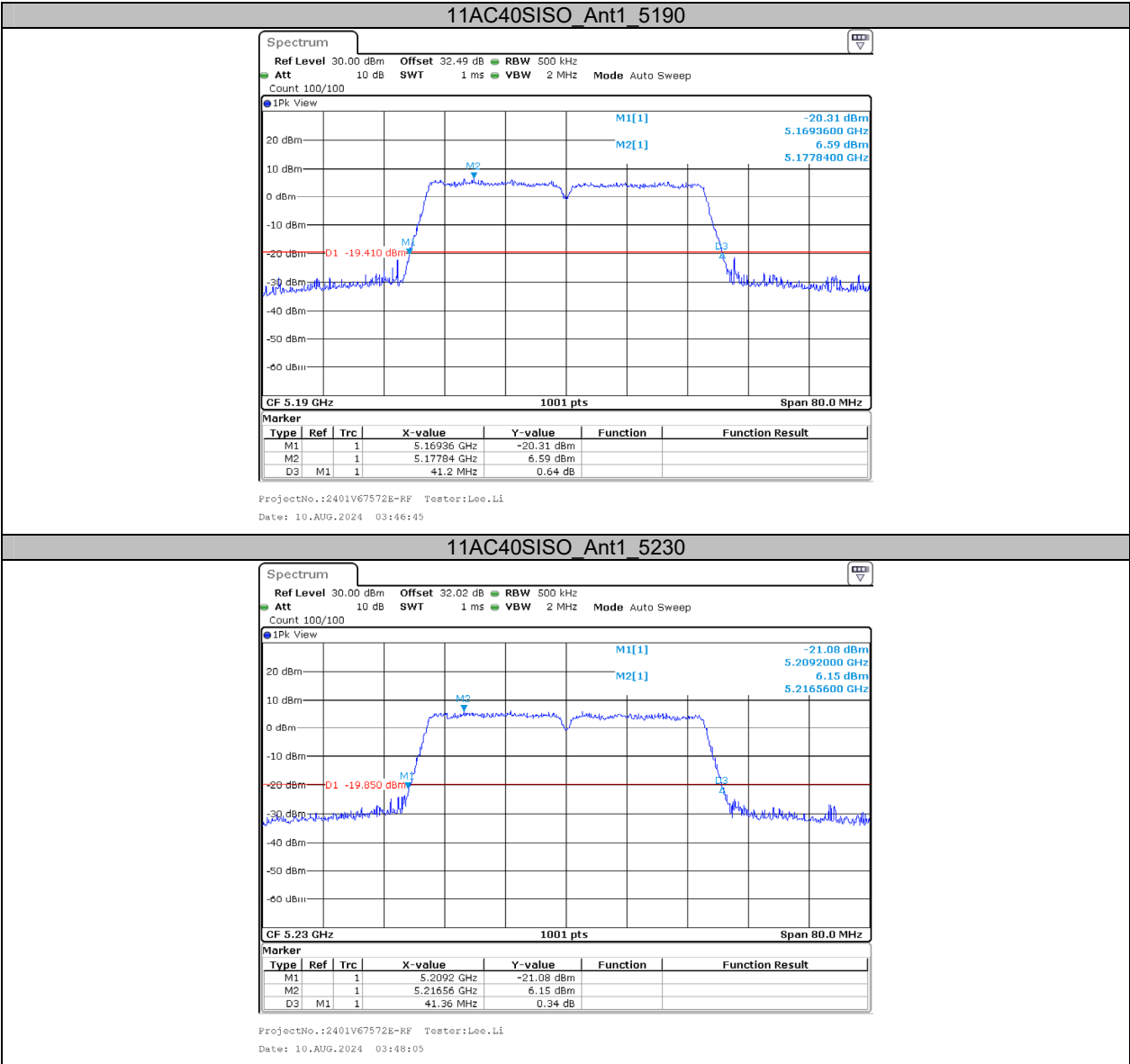


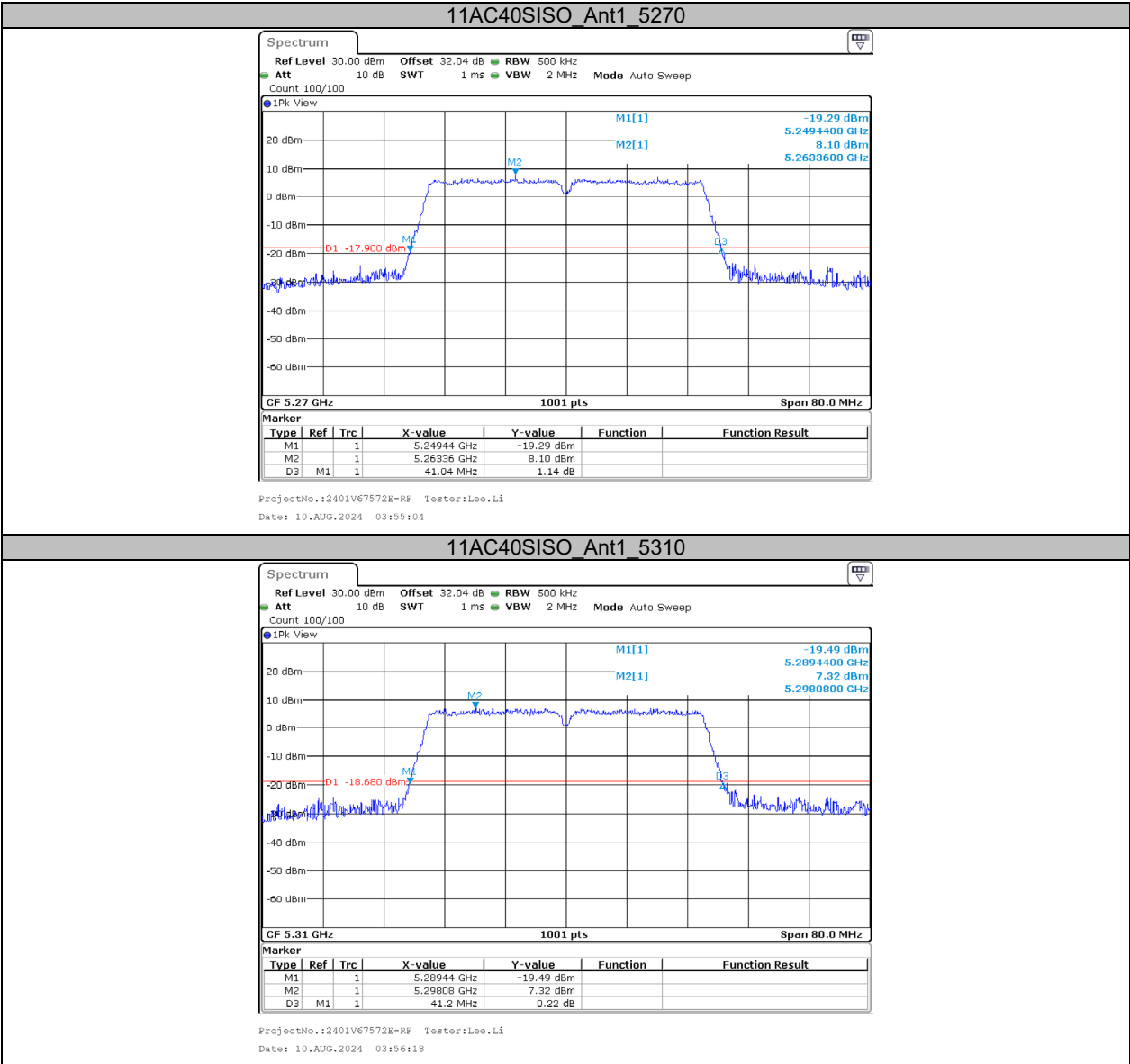


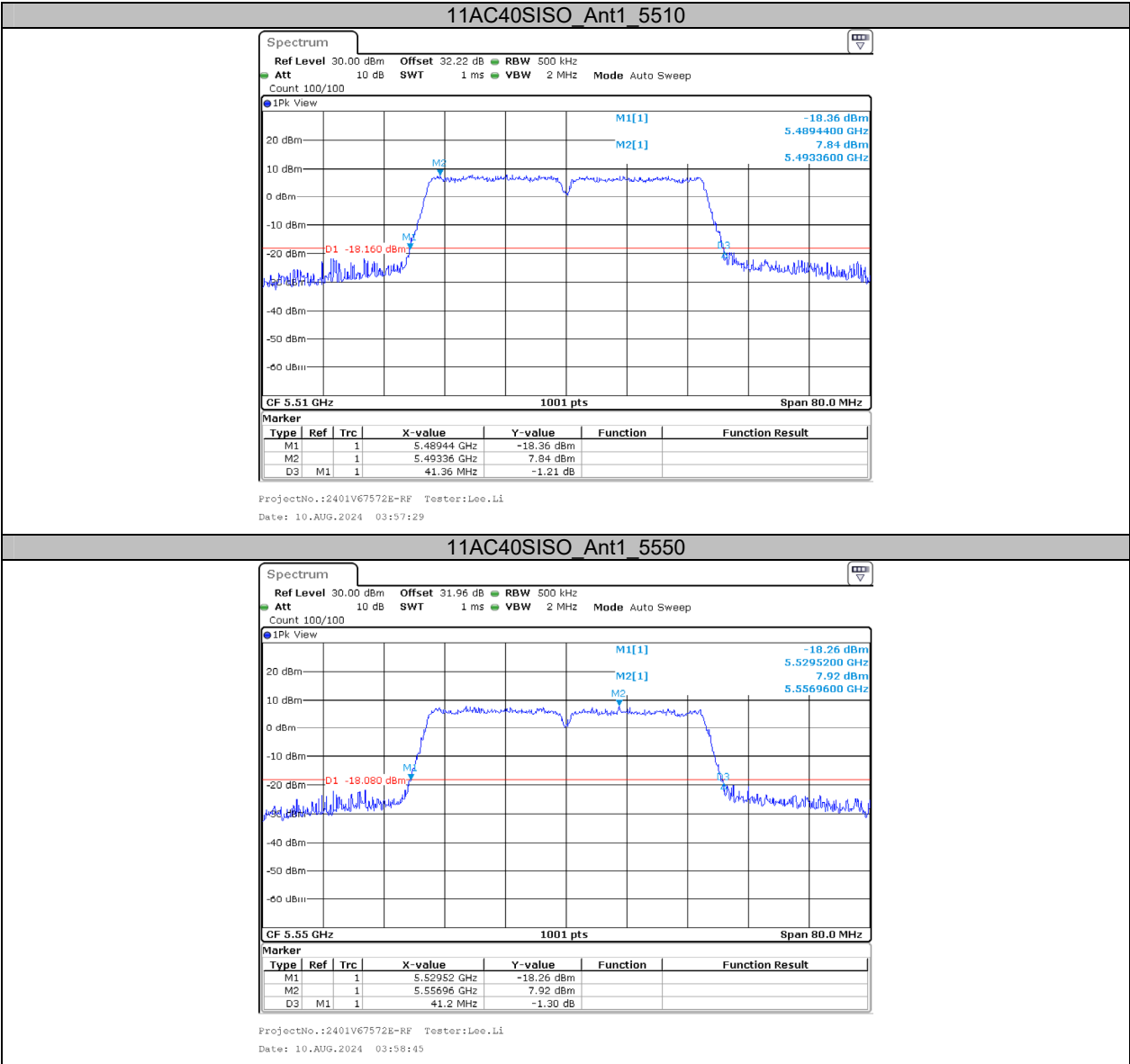


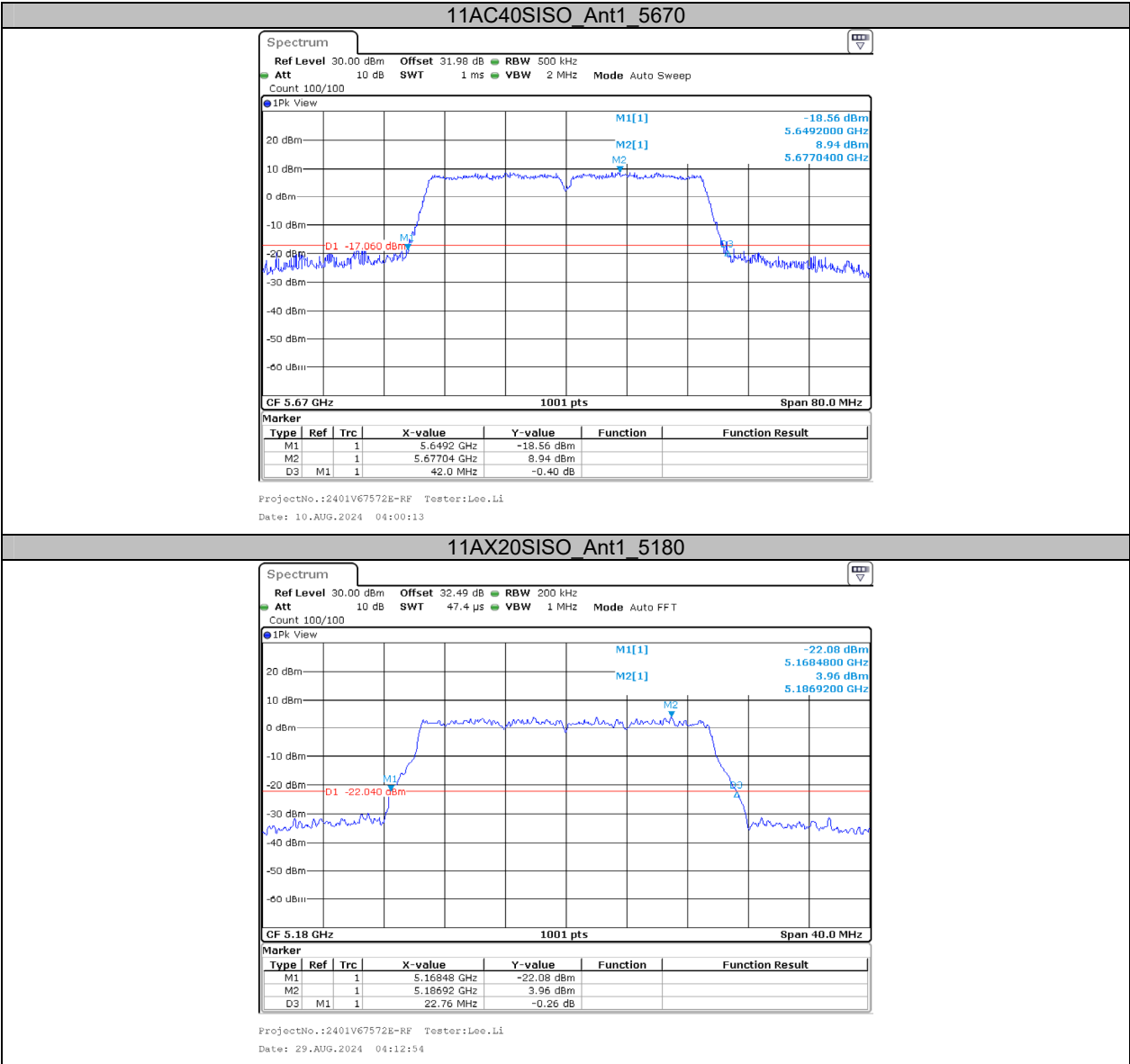


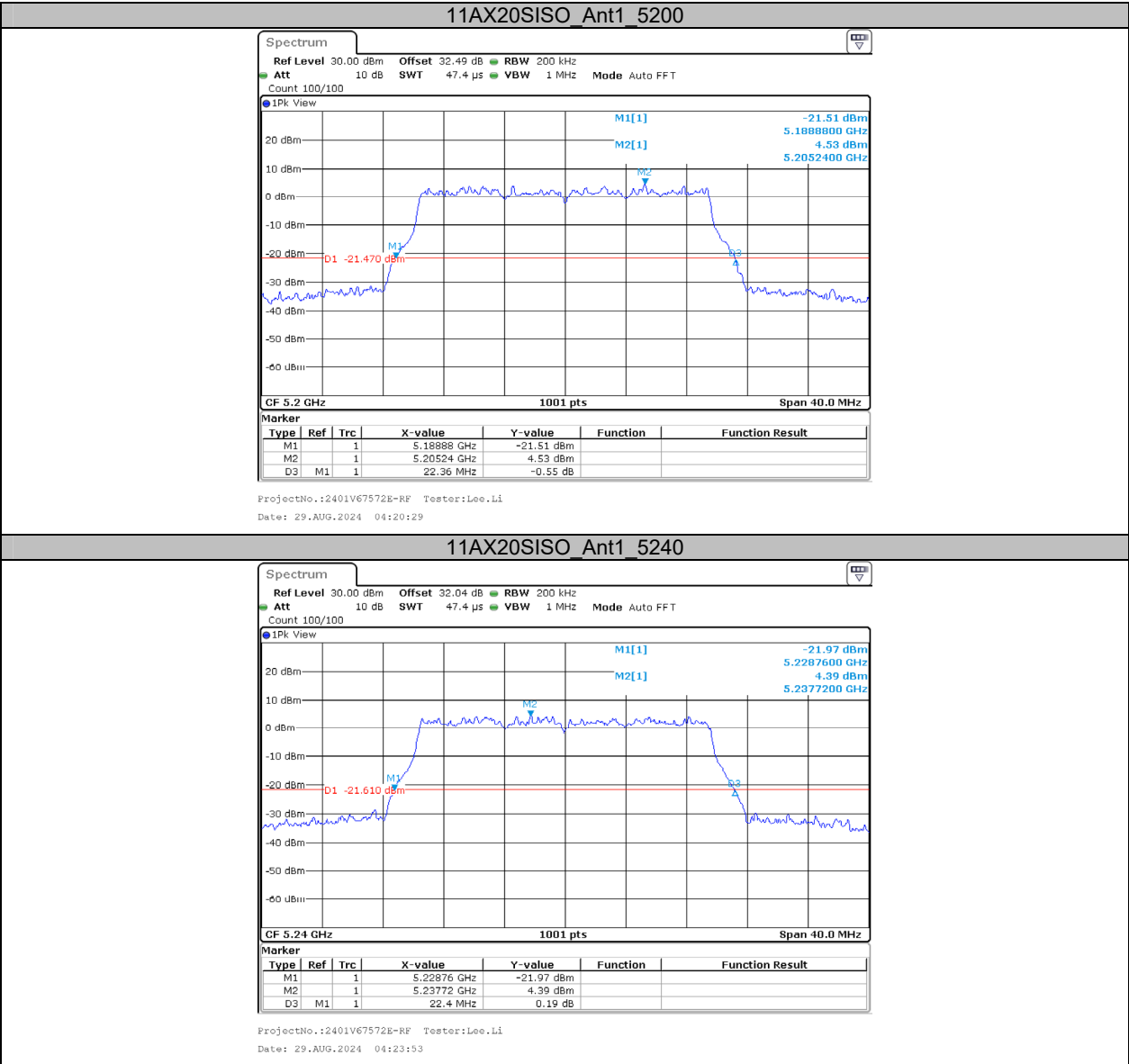


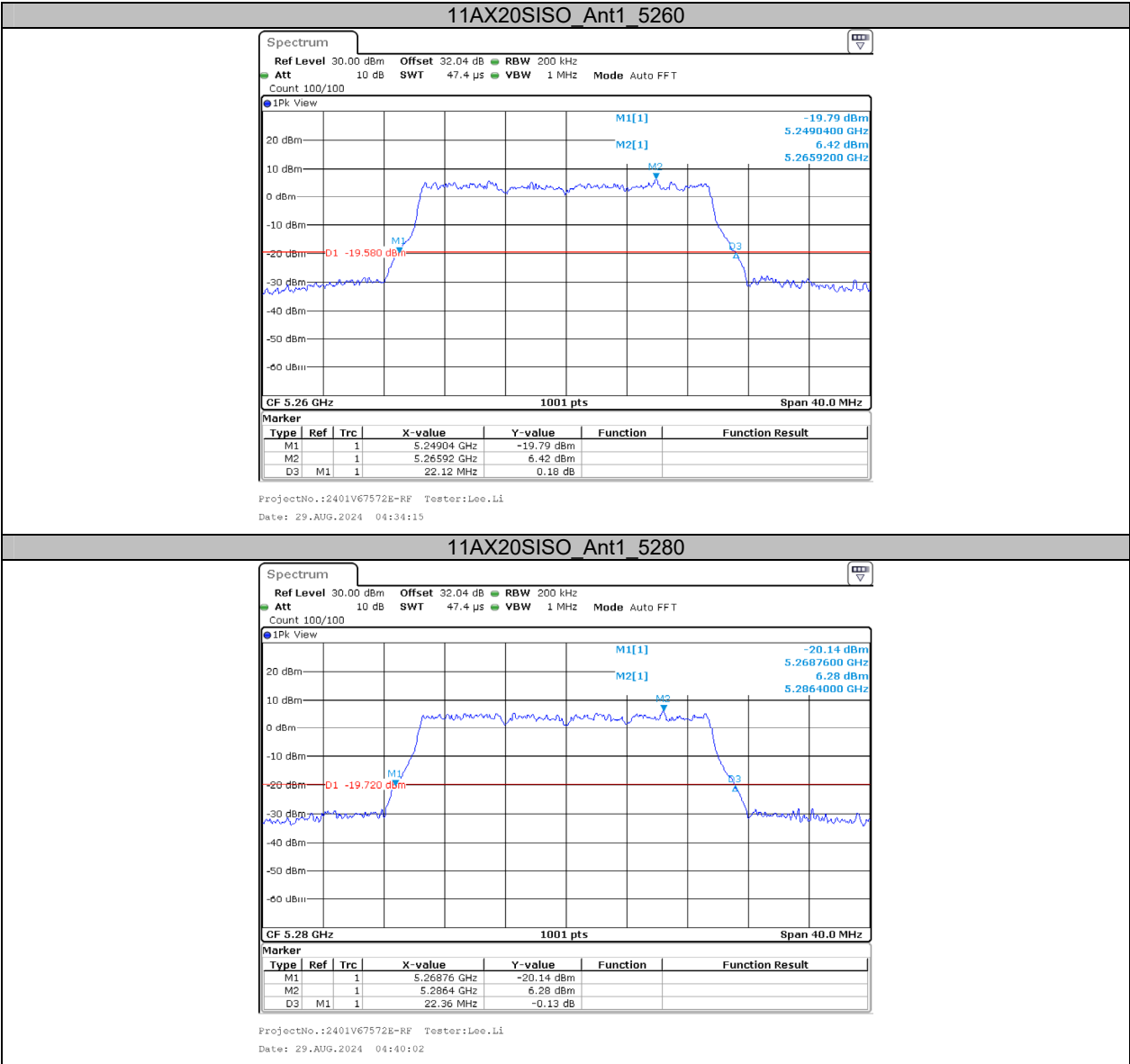


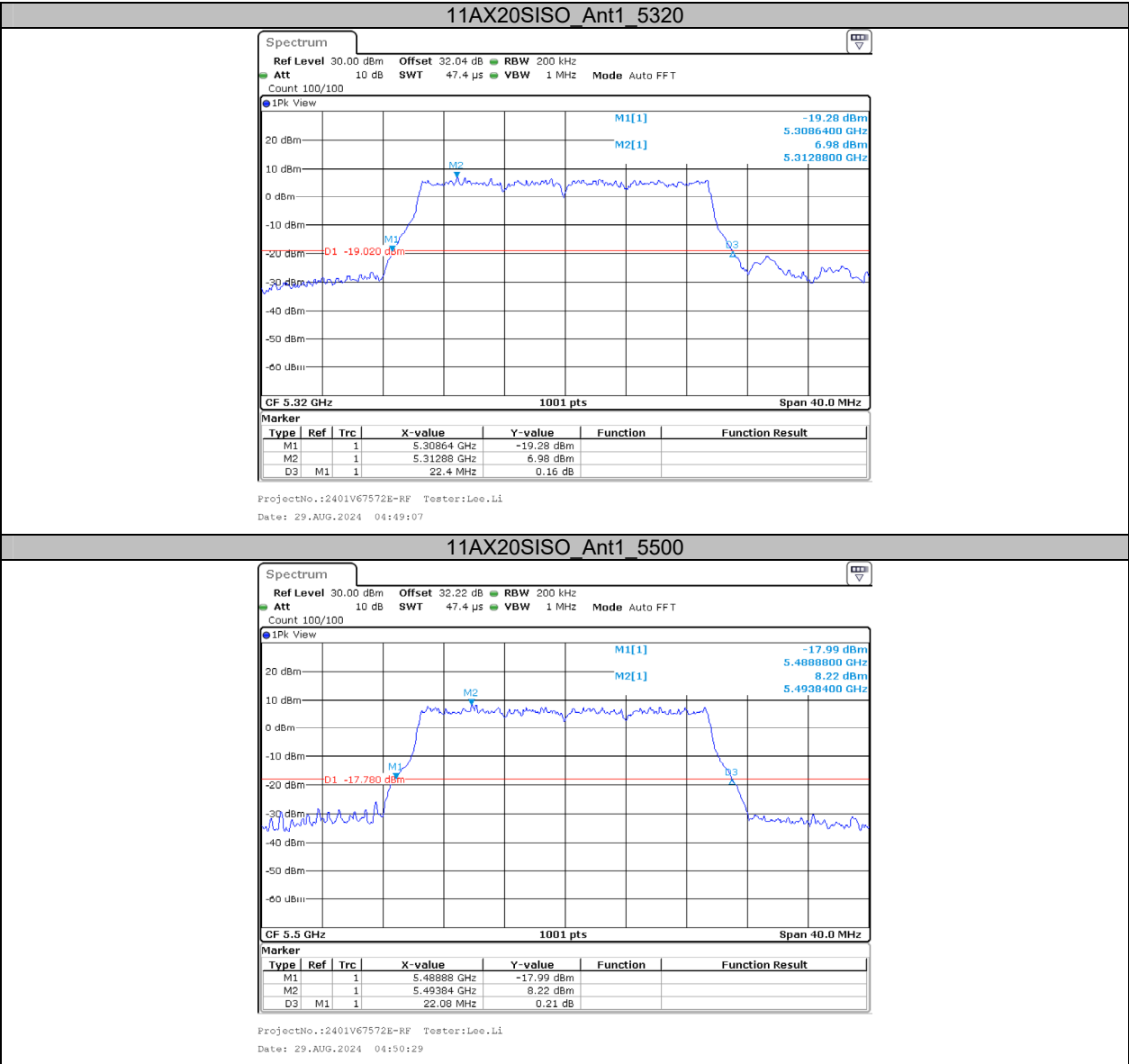




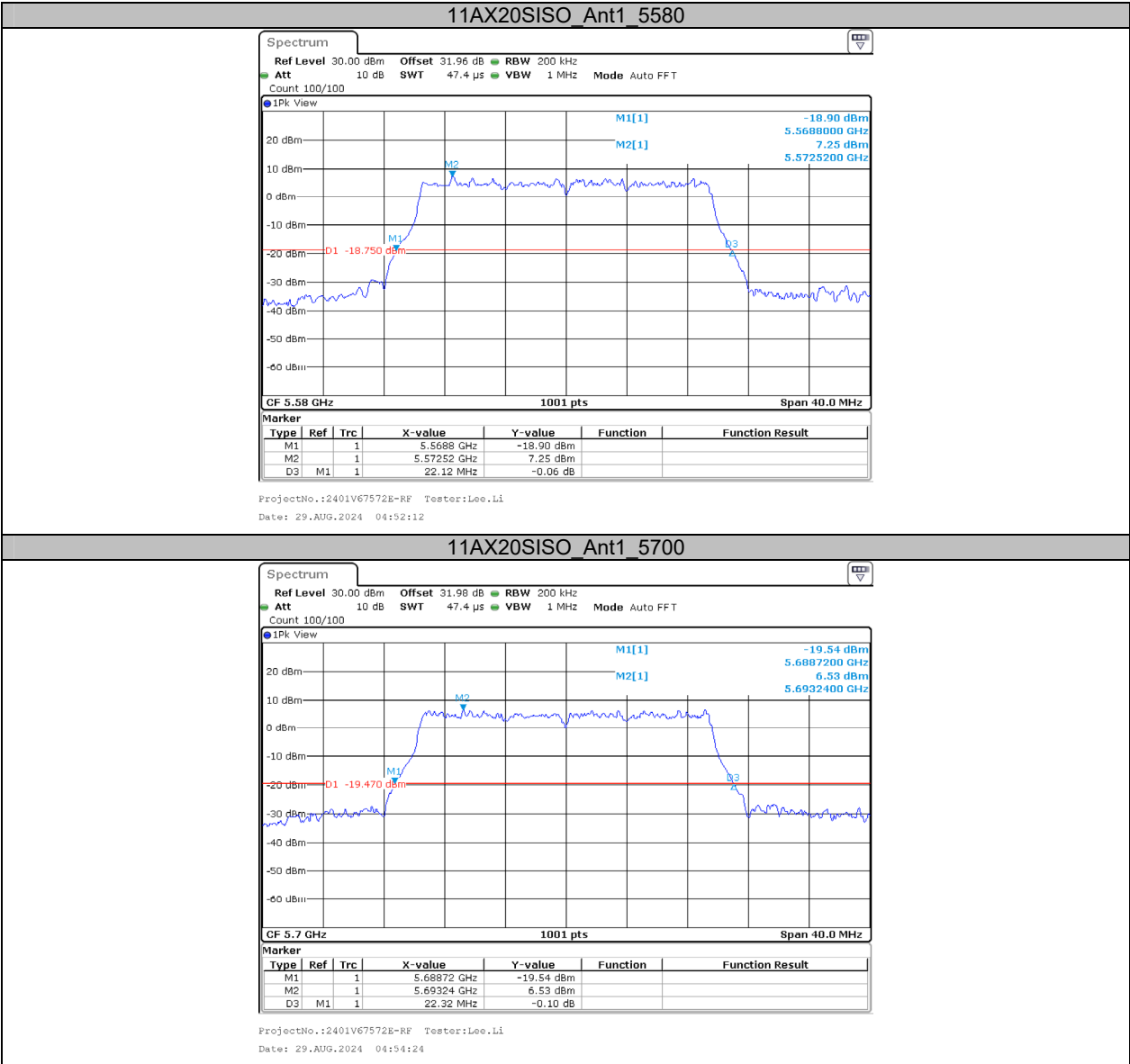


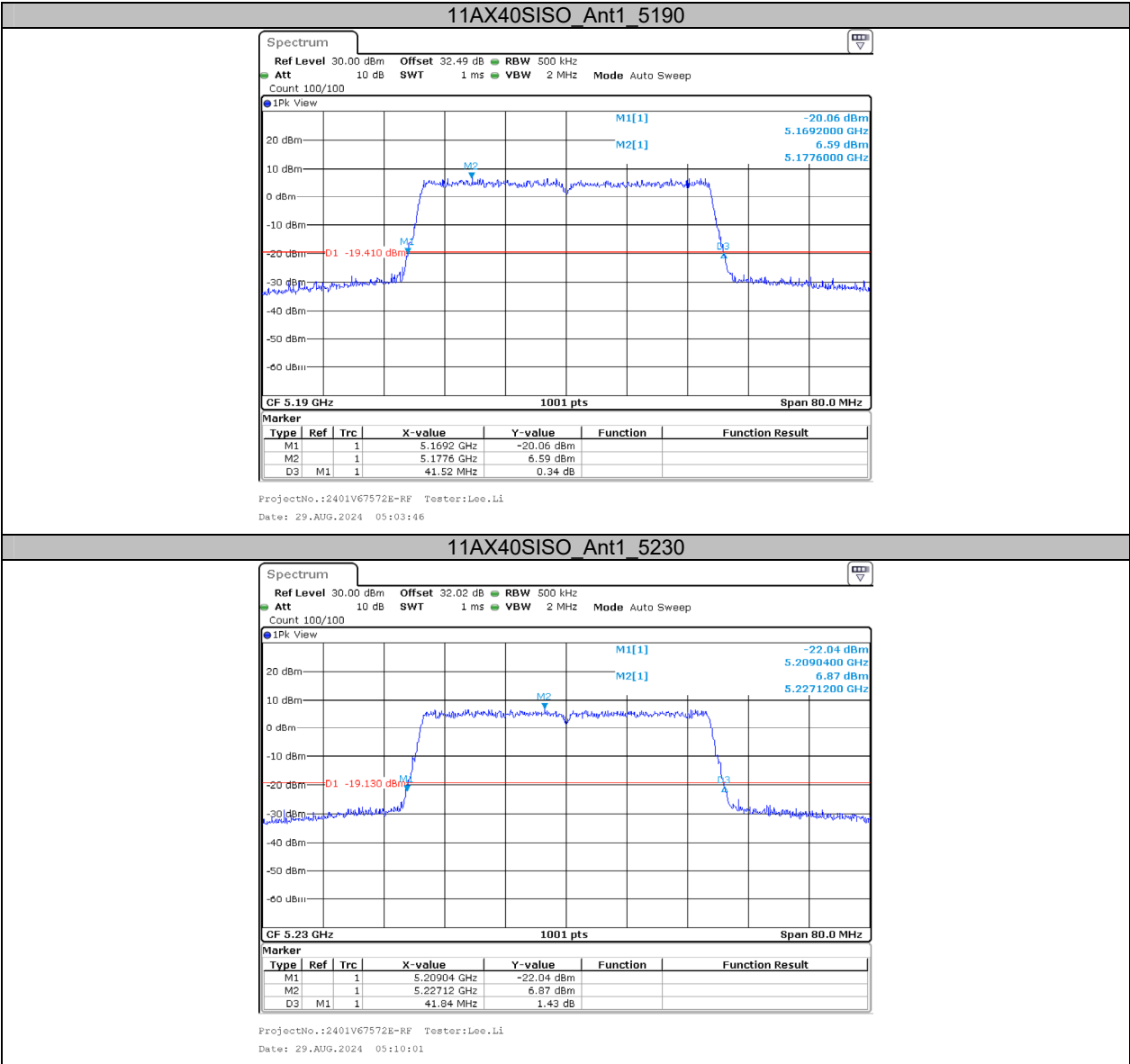


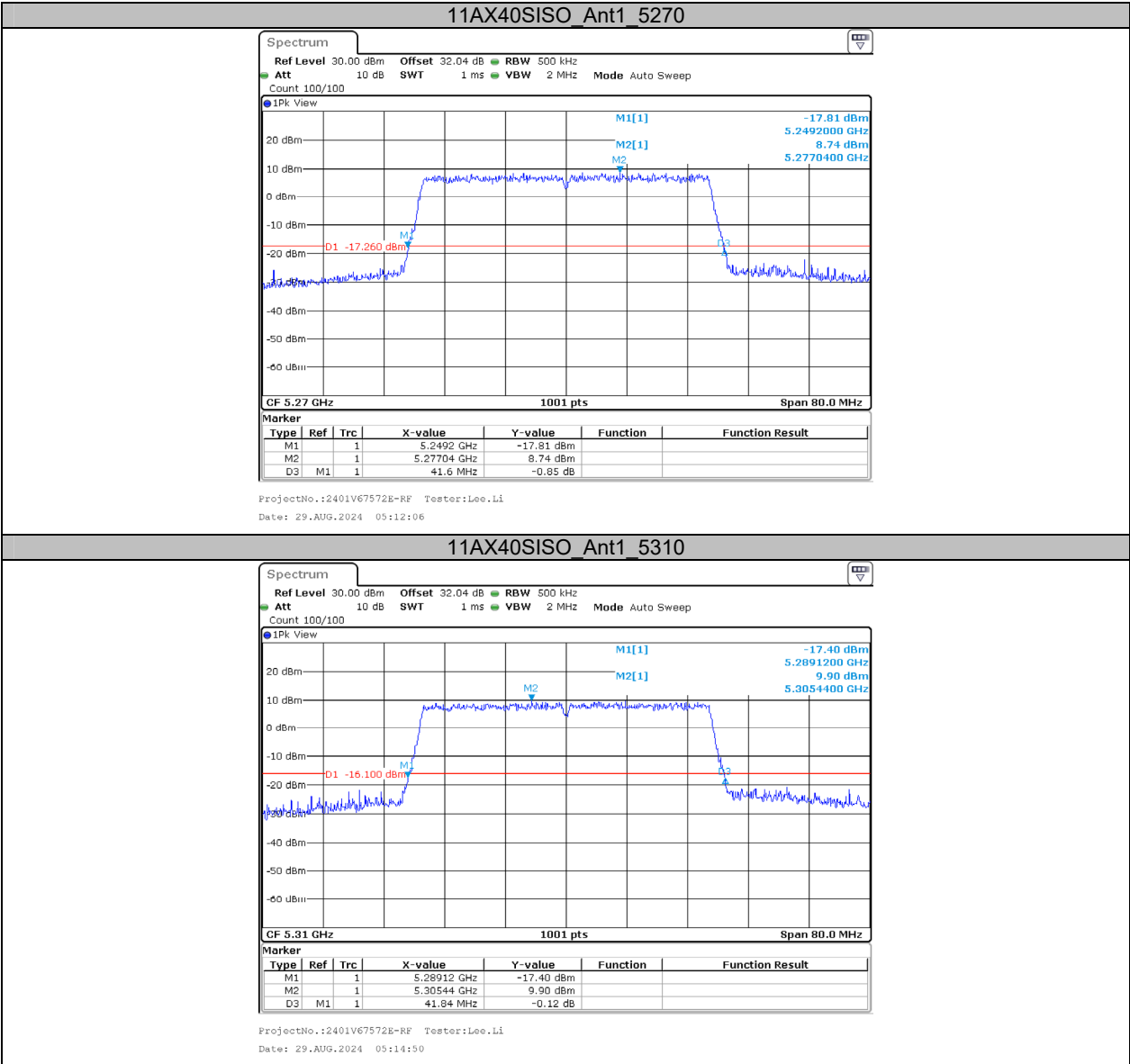


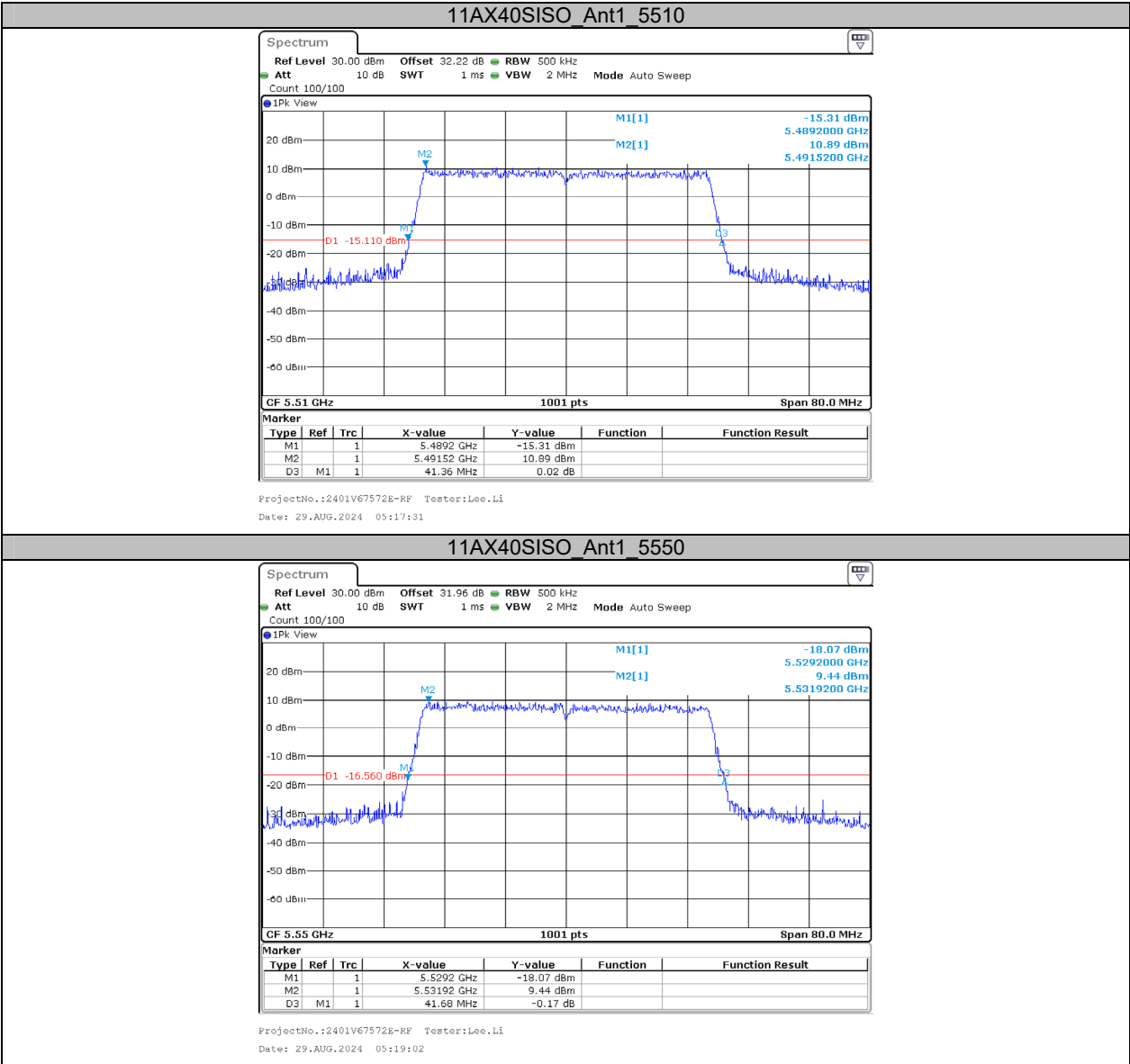


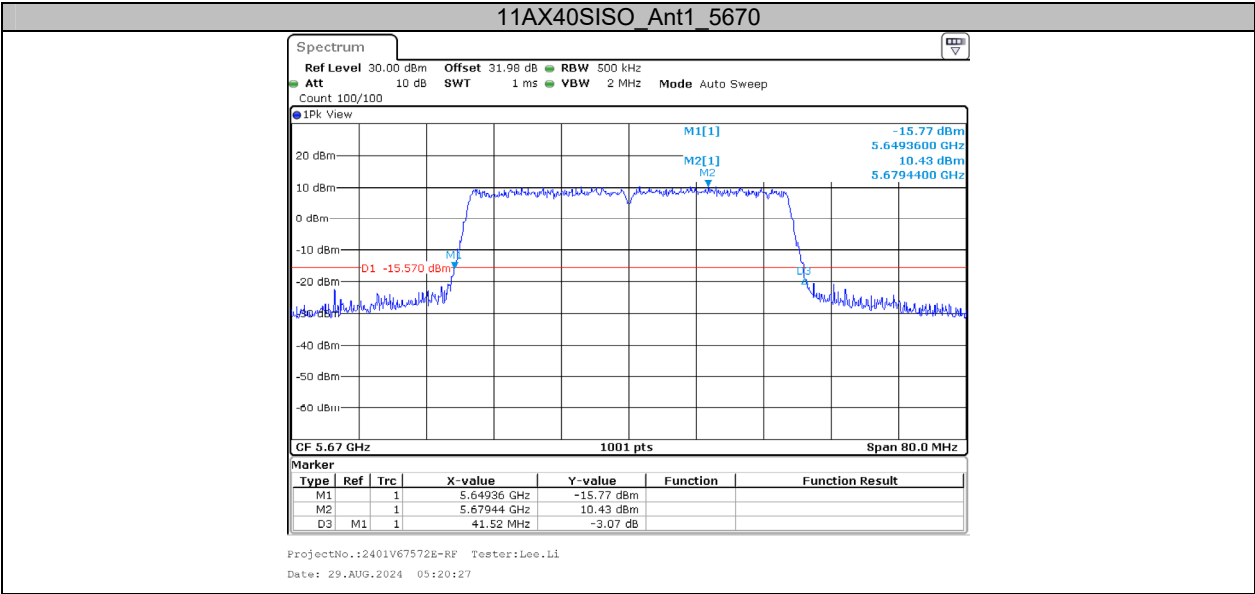












**Appendix A2: Occupied Channel Bandwidth****Test Result**

| Test Mode  | Antenna | Channel | OCB [MHz] | Limit[MHz] | Verdict |
|------------|---------|---------|-----------|------------|---------|
| 11A        | Ant1    | 5180    | 18.062    | ---        | ---     |
|            |         | 5200    | 18.182    | ---        | ---     |
|            |         | 5240    | 18.222    | ---        | ---     |
|            |         | 5260    | 18.062    | ---        | ---     |
|            |         | 5280    | 18.182    | ---        | ---     |
|            |         | 5320    | 18.142    | ---        | ---     |
|            |         | 5500    | 18.142    | ---        | ---     |
|            |         | 5580    | 18.142    | ---        | ---     |
|            |         | 5700    | 18.302    | ---        | ---     |
|            |         | 5745    | 18.262    | ---        | ---     |
|            |         | 5785    | 18.142    | ---        | ---     |
|            |         | 5825    | 17.942    | ---        | ---     |
| 11AC20SISO | Ant1    | 5180    | 18.821    | ---        | ---     |
|            |         | 5200    | 18.901    | ---        | ---     |
|            |         | 5240    | 18.901    | ---        | ---     |
|            |         | 5260    | 18.781    | ---        | ---     |
|            |         | 5280    | 18.821    | ---        | ---     |
|            |         | 5320    | 18.781    | ---        | ---     |
|            |         | 5500    | 18.861    | ---        | ---     |
|            |         | 5580    | 18.821    | ---        | ---     |
|            |         | 5700    | 18.941    | ---        | ---     |
|            |         | 5745    | 18.941    | ---        | ---     |
|            |         | 5785    | 18.821    | ---        | ---     |
|            |         | 5825    | 18.741    | ---        | ---     |
| 11AC40SISO | Ant1    | 5190    | 37.243    | ---        | ---     |
|            |         | 5230    | 37.083    | ---        | ---     |
|            |         | 5270    | 37.003    | ---        | ---     |
|            |         | 5310    | 37.083    | ---        | ---     |
|            |         | 5510    | 37.083    | ---        | ---     |
|            |         | 5550    | 37.083    | ---        | ---     |
|            |         | 5670    | 37.243    | ---        | ---     |
|            |         | 5755    | 37.243    | ---        | ---     |
|            |         | 5795    | 37.243    | ---        | ---     |
| 11AX20SISO | Ant1    | 5180    | 19.461    | ---        | ---     |
|            |         | 5200    | 19.58     | ---        | ---     |
|            |         | 5240    | 19.58     | ---        | ---     |
|            |         | 5260    | 19.58     | ---        | ---     |
|            |         | 5280    | 19.461    | ---        | ---     |
|            |         | 5320    | 19.54     | ---        | ---     |
|            |         | 5500    | 19.461    | ---        | ---     |

|            |      |      |        |     |     |
|------------|------|------|--------|-----|-----|
|            |      | 5580 | 19.421 | --- | --- |
|            |      | 5700 | 19.58  | --- | --- |
|            |      | 5745 | 19.62  | --- | --- |
|            |      | 5785 | 19.5   | --- | --- |
|            |      | 5825 | 19.461 | --- | --- |
| 11AX40SISO | Ant1 | 5190 | 38.362 | --- | --- |
|            |      | 5230 | 38.202 | --- | --- |
|            |      | 5270 | 38.202 | --- | --- |
|            |      | 5310 | 38.282 | --- | --- |
|            |      | 5510 | 38.202 | --- | --- |
|            |      | 5550 | 38.202 | --- | --- |
|            |      | 5670 | 38.202 | --- | --- |
|            |      | 5755 | 38.362 | --- | --- |
|            |      | 5795 | 38.362 | --- | --- |

Note: For W52 and W58 band, no transmitted signal in the 99% bandwidth extends into the U-NII-2A band and U-NII-2C band.

Test Graphs

