# TEST REPORT

| | |
|---|---|
| Applicant Name: | Fanvil Link Technology Co.,LTD |
| Address: | Room 1517, Building G, Hualian City Panorama.27 Region, Bao'an District;Shenzhen,China |
| Report Number: | SZ1240307-11374E-RF-00C |
| FCC ID: | 2BCUQ-W611WV2 |

**Test Standard (s)**

FCC PART 15.407

**Sample Description**

| | |
|---|---|
| Product Type: | Portable Wi-Fi Phone |
| Model No.: | W611W |
| Multiple Model(s) No.: | N/A |
| Trade Mark: | LINKVIL |
| Date Received: | 2024/03/07 |
| Issue Date: | 2024/05/29 |

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

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

**Prepared and Checked By:**

Jojo Guo
RF Engineer

**Approved By:**

Jimmy Xiao
RF Supervisor

# TABLE OF CONTENTS

# DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|---|---|---|---|
| 0 | SZ1240307-11374E-RF-00C | Original Report | 2024/05/29 |

# GENERAL INFORMATION

## Product Description for Equipment under Test (EUT)

| | |
|---|---|
| Product | Portable Wi-Fi Phone |
| Tested Model | W611W |
| Multiple Model(s) | N/A |
| Frequency Range | 5G Wi-Fi: 5150-5250MHz; 5725-5850MHz |
| Mode | 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80 |
| Maximum Conducted Average Output Power | 5150-5250MHz: 15.16dBm<br>5725-5850MHz: 13.47dBm |
| Modulation Technique | OFDM, OFDMA |
| Antenna Specification# | B1: ANT1: 0.7dBi; ANT2: 1.5dBi<br>B4: ANT1: 2.5dBi; ANT2: 2.3dBi (provided by the applicant) |
| Voltage Range | DC3.8V from battery or DC5V from adapter |
| Sample serial number | 2IGP-2 for Conducted and Radiated Emissions Test<br>2IGP-1 for RF Conducted Test (Assigned by BACL, Shenzhen) |
| Sample/EUT Status | Good condition |
| Adapter Information | Adapter 1<br>Model:F12L20-050200SPAU<br>Input: AC 100-240V~50/60Hz 0.3A<br>Output: DC 5.0V.2.0A 10.0W<br>Adapter 2<br>Model:GQ12-050200-AU<br>Input: AC 100-240V~50/60Hz 0.4A Max<br>Output: DC 5.0V.2.0A |
| | |

## 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℃ |
| 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.

The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80/ax he20/ax he40/ax he80, the 802.11 n ht20/n ht40 were reduced since the identical parameters with 802.11ac vht20 and vht40.

For 5150-5250MHz Band, 7 channels are provided to testing:

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

For 802.11a/ac20/ax20 mode: channel 36, 40, 48 were tested;
For 802.11ac40/ax40 mode: channel 38, 46 were tested;
For 802.11ac80/ax80 mode, channel 42 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

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

For 802.11a/ac20/ax20 mode: channel 149, 157, 165 were tested;
For 802.11ac40/ax40 mode: channel 151, 159 were tested;
For 802.11ac80/ax80 mode, channel 155 was tested.

## EUT Exercise Software

Test in the engineering mode 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:

| U-NII | Mode | Data rate | Power Level# | | |
|---|---|---|---|---|---|
| | | | Low Channel | Middle Channel | High Channel |
| 5150 – 5250MHz | 802.11a | 6Mbps | 10 | 10 | 10 |
| | 802.11ac20 | MCS0 | 10 | 10 | 10 |
| | 802.11ac40 | MCS0 | 10 | / | 10 |
| | 802.11ac80 | MCS0 | / | 10 | / |
| | 802.11ax20 | MCS0 | 10 | 10 | 10 |
| | 802.11ax40 | MCS0 | 10 | / | 10 |
| | 802.11ax80 | MCS0 | / | 10 | / |
| 5725 – 5850MHz | 802.11a | 6Mbps | 10 | 10 | 10 |
| | 802.11ac20 | MCS0 | 10 | 10 | 10 |
| | 802.11ac40 | MCS0 | 10 | / | 10 |
| | 802.11ac80 | MCS0 | / | 10 | / |
| | 802.11ax20 | MCS0 | 10 | 10 | 10 |
| | 802.11ax40 | MCS0 | 10 | / | 10 |
| | 802.11ax80 | MCS0 | / | 10 | / |

Note: the device support SISO/MIMO for all mode, SISO/MIMO with same setting for same mode, pre-scan SISO/MIMO, worst case MIMO was recorded in report. Two antennas with same power level setting For 802.11 ax mode, only support full RU mode.

## Duty cycle

Test Result: Compliant. Please refer to the Appendix.

## Equipment Modifications

No modification was made to the EUT tested.

## Support Equipment List and Details

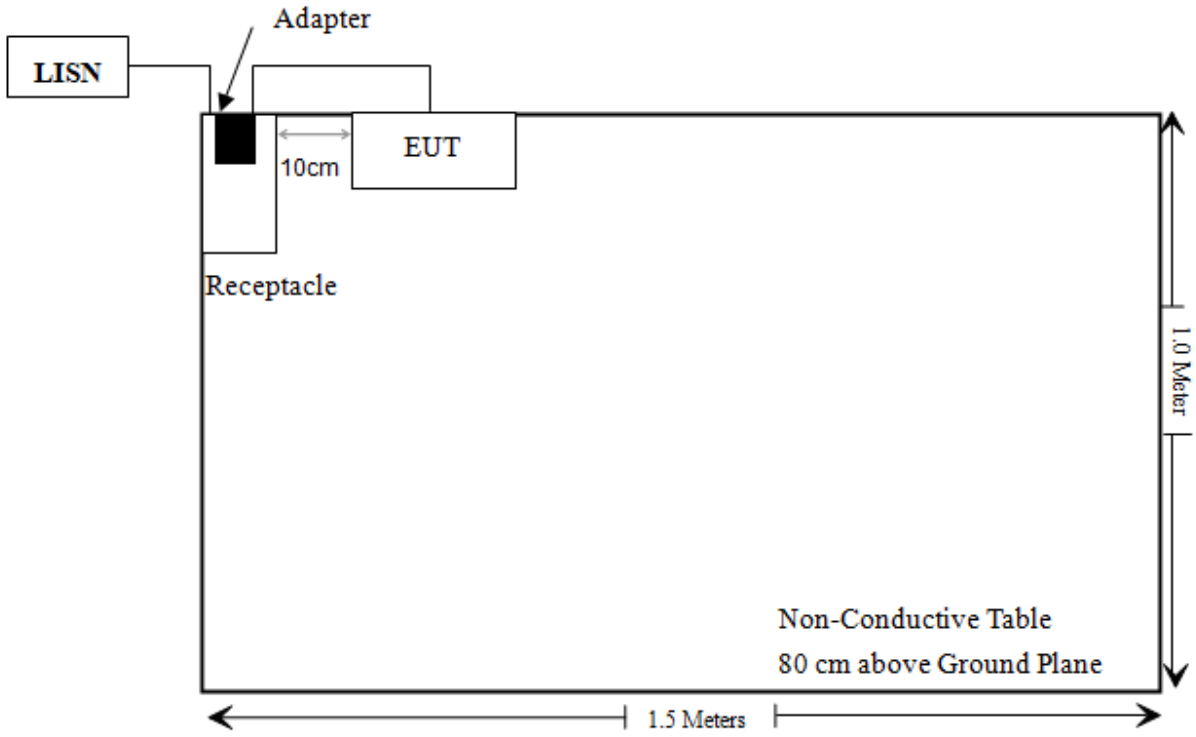
| Manufacturer | Description | Model | Serial Number |
|---|---|---|---|
| / | / | / | / |

## External I/O Cable

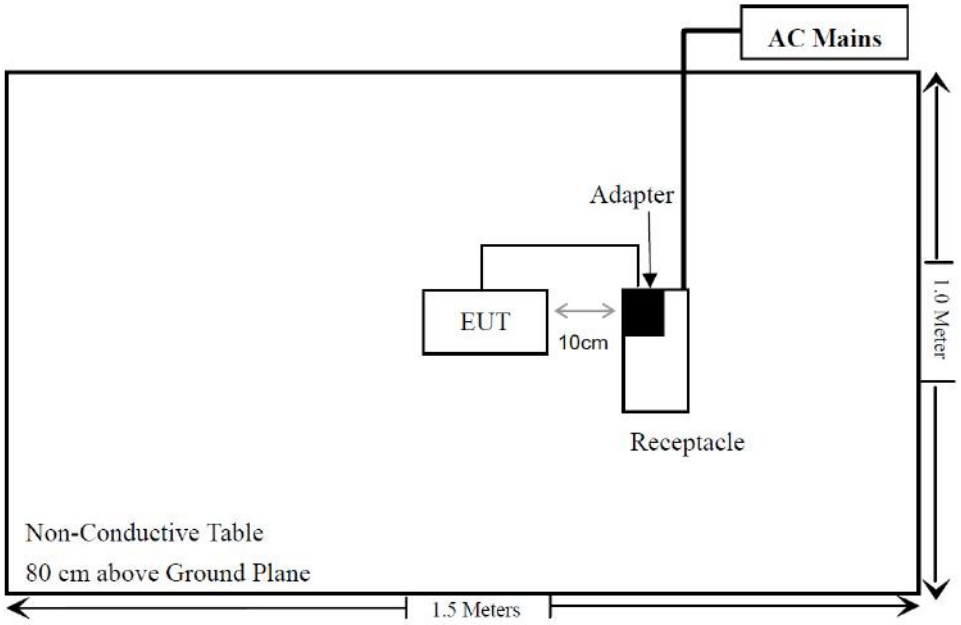
| Cable Description | Length (m) | From Port | To |
|---|---|---|---|
| Un-shielding Detachable USB Cable | 1.0 | EUT | Adapter |
| Un-shielding Detachable AC Cable | 1.2 | Receptacle | LISN |
| Un-shielding Detachable AC Cable | 1.2 | Receptacle | AC Mains |

## Block Diagram of Test Setup

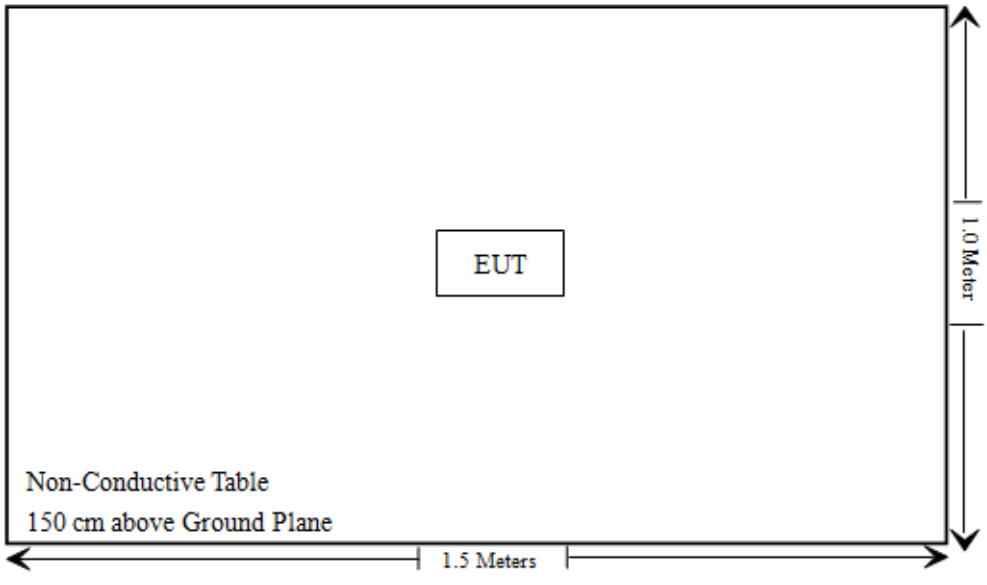
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):




For Radiated Emissions (Above 1GHz):



# SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|---|---|---|
| §1.1307 & §2.1093 | RF EXPOSURE | Compliant |
| §15.203 | Antenna Requirement | Compliant |
| §15.407(b)(9)& §15.207(a) | Conducted Emissions | Compliant |
| §15.205& §15.209 &§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) | Not Applicable |

Not Applicable: The supplier declared that the equipment has no this function.

# TEST EQUIPMENT LIST

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| **Conducted Emissions Test** | | | | | |
| 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 | 2023/08/03 | 2024/08/02 |
| Unknown | CE Cable | CE Cable | UF A210B-1-0720-504504 | 2023/08/03 | 2024/08/02 |
| Audix | EMI Test software | E3 | 191218(V9) | NCR | NCR |
| **Radiated Emissions Test** | | | | | |
| R&S | EMI Test Receiver | ESR3 | 102455 | 2024/01/16 | 2025/01/15 |
| Sonoma instrument | Pre-amplifier | 310 N | 186238 | 2023/06/08 | 2024/06/07 |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-1 | 2023/07/20 | 2026/07/19 |
| ETS | Passive Loop Antenna | 6512 | 29604 | 2023/07/07 | 2026/07/06 |
| Unknown | Cable | Chamber Cable 1 | F-03-EM236 | 2023/08/03 | 2024/08/02 |
| Unknown | Cable | Chamber Cable 4 | EC-007 | 2023/08/03 | 2024/08/02 |
| Rohde & Schwarz | Spectrum Analyzer | FSV40 | 101605 | 2024/03/27 | 2025/03/26 |
| COM-POWER | Pre-amplifier | PA-122 | 181919 | 2023/06/29 | 2024/06/28 |
| Schwarzbeck | Horn Antenna | BBHA9120D(1201) | 1143 | 2023/07/26 | 2026/07/25 |
| Unknown | RF Cable | KMSE | 0735 | 2023/10/08 | 2024/10/07 |
| Unknown | RF Cable | UFA147 | 219661 | 2023/10/08 | 2024/10/07 |
| SNSD | 5G Band Reject filter | BSF5150-5850MN-0899-004 | 5G filter | 2023/08/03 | 2024/08/02 |
| A.H.System | Pre-amplifier | PAM-1840VH | 190 | 2023/08/02 | 2024/08/01 |
| Electro-Mechanics Co | Horn Antenna | 3116 | 9510-2270 | 2023/09/18 | 2026/09/17 |
| UTIFLEX | RF Cable | NO. 13 | 232308-001 | 2023/08/03 | 2024/08/02 |
| Audix | EMI Test software | E3 | 191218(V9) | NCR | NCR |
| **RF Conducted Test** | | | | | |
| Tonscend | RF control Unit | JS0806-2 | 19D8060154 | 2023/09/06 | 2024/09/05 |
| Rohde & Schwarz | Signal and Spectrum Analyzer | FSV40 | 101473 | 2024/01/16 | 2025/01/15 |
| Narda | 20dB Attenuator | 99899 | 0107 | 2023/07/04 | 2024/07/03 |

*** 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).

# FCC §1.1307 & §2.1093 - RF EXPOSURE

## Applicable Standard

FCC§1.1310 and §2.1093.

## Test Result

Compliance, please refer to the SAR report: SZ1240307-11374E-SA.

# FCC §15.203 - ANTENNA REQUIREMENT

## Applicable Standard

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

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

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

## Antenna Connector Construction

The EUT has two internal antennas which was permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

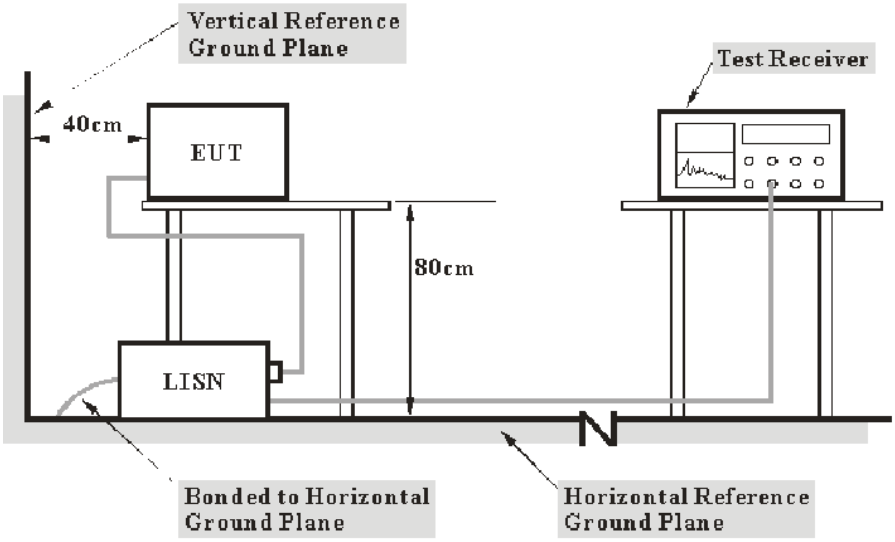
**Result: Compliant**

# 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.

## Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Factor = LISN VDF + Cable Loss

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

Over Limit = Level – Limit
Level = Read Level + Factor

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

## Test Data

### Environmental Conditions

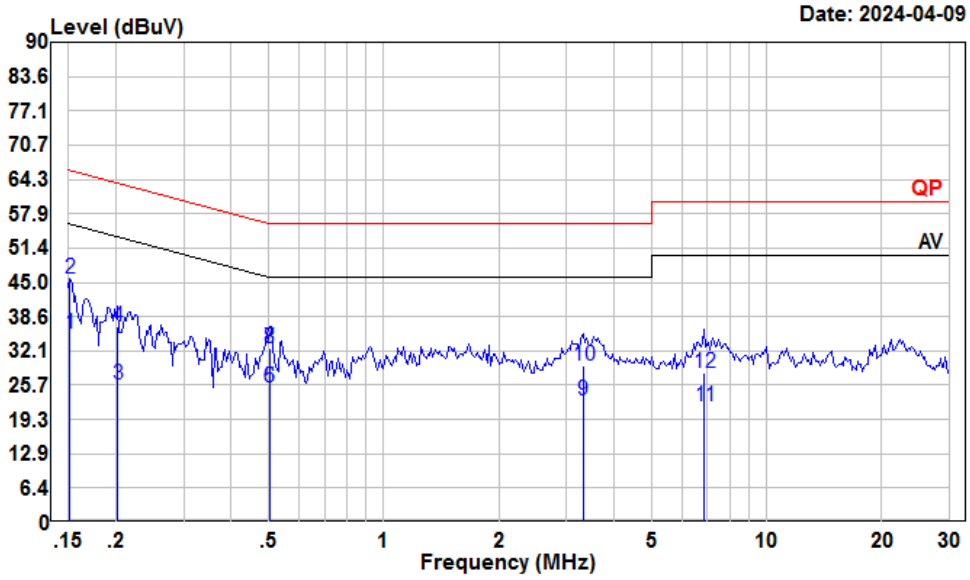
| | |
|---|---|
| **Temperature:** | 25 ℃ |
| **Relative Humidity:** | 55 % |
| **ATM Pressure:** | 101.0 kPa |

*The testing was performed by Macy Shi on 2024-04-09.*

*EUT operation mode: Transmitting (Maximum output mode 802.11AX20 5180MHz Channel)*

***For Adapter 1***

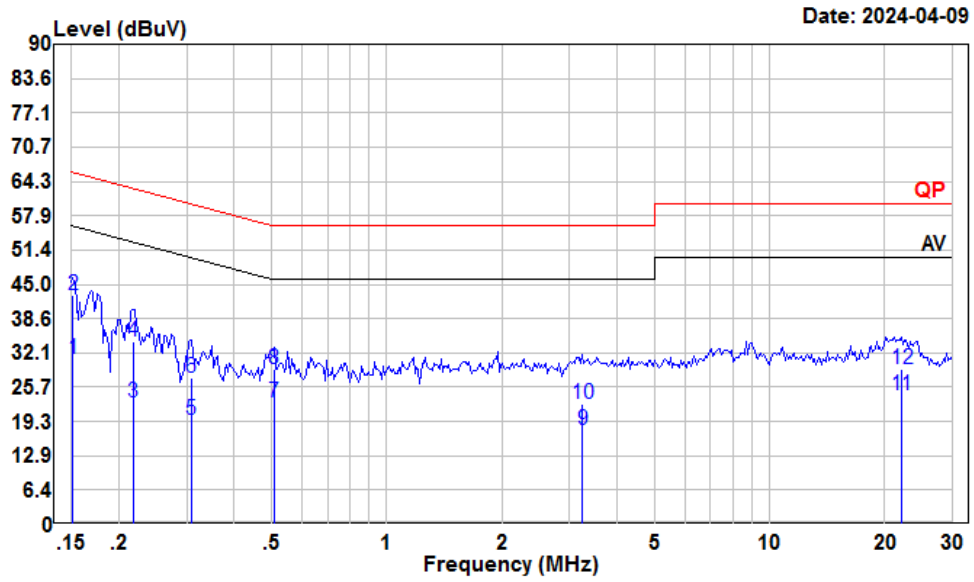
**AC 120V/60 Hz, Line**




Condition: Line
Project : SZ1240307-11374E-RF
Tester : Macy shi
Note : 5G WIFI

| | Freq | Read Level | Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dBuV | dB | dB | dBuV | dB | |
| 1 | 0.15 | 14.18 | 35.23 | 10.90 | 10.15 | 55.91 | -20.68 | Average |
| 2 | 0.15 | 24.52 | 45.57 | 10.90 | 10.15 | 65.91 | -20.34 | QP |
| 3 | 0.20 | 4.97 | 25.86 | 10.80 | 10.09 | 53.54 | -27.68 | Average |
| 4 | 0.20 | 15.87 | 36.76 | 10.80 | 10.09 | 63.54 | -26.78 | QP |
| 5 | 0.50 | 4.70 | 25.35 | 10.50 | 10.15 | 46.00 | -20.65 | Average |
| 6 | 0.50 | 4.70 | 25.35 | 10.50 | 10.15 | 46.00 | -20.65 | Average |
| 7 | 0.50 | 11.99 | 32.64 | 10.50 | 10.15 | 56.00 | -23.36 | QP |
| 8 | 0.50 | 12.05 | 32.70 | 10.50 | 10.15 | 56.00 | -23.30 | QP |
| 9 | 3.31 | 2.10 | 22.75 | 10.38 | 10.27 | 46.00 | -23.25 | Average |
| 10 | 3.31 | 8.81 | 29.46 | 10.38 | 10.27 | 56.00 | -26.54 | QP |
| 11 | 6.88 | 1.08 | 21.79 | 10.49 | 10.22 | 50.00 | -28.21 | Average |
| 12 | 6.88 | 7.26 | 27.97 | 10.49 | 10.22 | 60.00 | -32.03 | QP |

**AC 120V/60 Hz, Neutral**

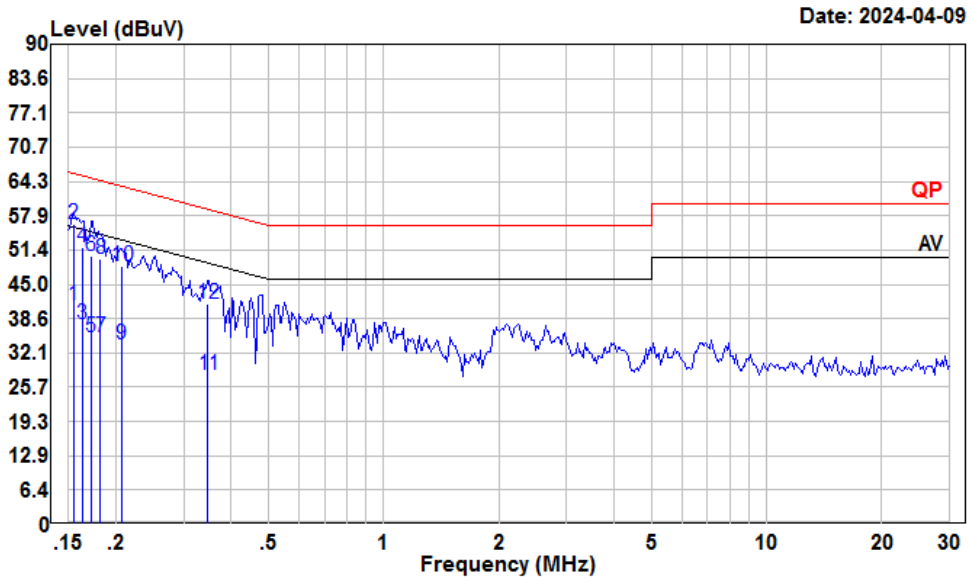



Condition: Neutral
Project : SZ1240307-11374E-RF
Tester : Macy shi
Note : 5G WIFI

| | Freq | Read Level | LISN Level | Factor | Cable Loss | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dBuV | dB | dB | dBuV | dB | |
| 1 | 0.15 | 10.39 | 31.13 | 10.59 | 10.15 | 55.91 | -24.78 | Average |
| 2 | 0.15 | 22.22 | 42.96 | 10.59 | 10.15 | 65.91 | -22.95 | QP |
| 3 | 0.22 | 2.28 | 22.84 | 10.43 | 10.13 | 52.92 | -30.08 | Average |
| 4 | 0.22 | 13.70 | 34.26 | 10.43 | 10.13 | 62.92 | -28.66 | QP |
| 5 | 0.31 | -1.14 | 19.53 | 10.54 | 10.13 | 50.02 | -30.49 | Average |
| 6 | 0.31 | 6.77 | 27.44 | 10.54 | 10.13 | 60.02 | -32.58 | QP |
| 7 | 0.51 | 1.94 | 22.80 | 10.70 | 10.16 | 46.00 | -23.20 | Average |
| 8 | 0.51 | 8.31 | 29.17 | 10.70 | 10.16 | 56.00 | -26.83 | QP |
| 9 | 3.24 | -3.01 | 17.66 | 10.40 | 10.27 | 46.00 | -28.34 | Average |
| 10 | 3.24 | 1.98 | 22.65 | 10.40 | 10.27 | 56.00 | -33.35 | QP |
| 11 | 22.06 | 3.41 | 24.22 | 10.65 | 10.16 | 50.00 | -25.78 | Average |
| 12 | 22.06 | 8.20 | 29.01 | 10.65 | 10.16 | 60.00 | -30.99 | QP |

***For Adapter 2***

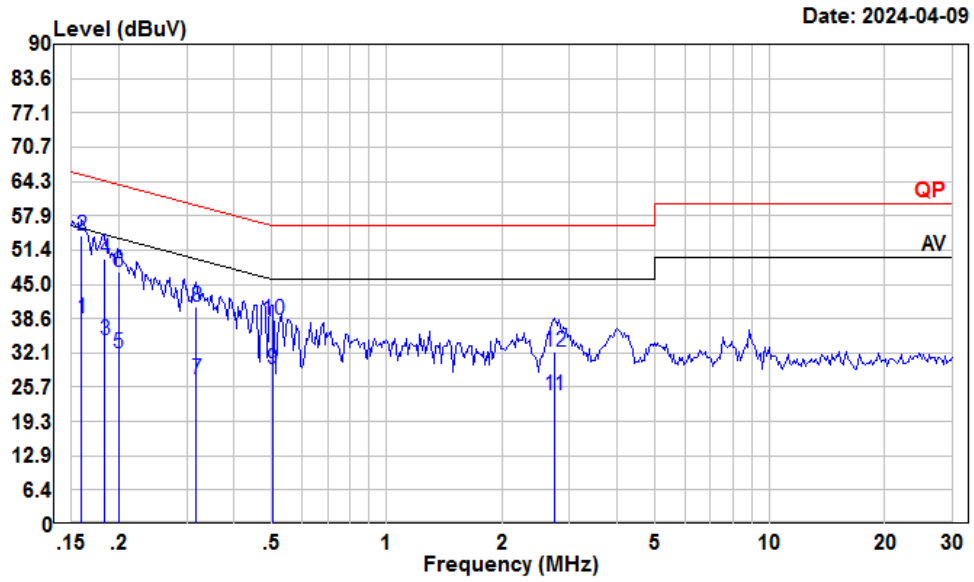
**AC 120V/60 Hz, Line**




Condition: Line
Project : SZ1240307-11374E-RF
Tester : Macy shi
Note : 5G WIFI

| | Freq | Read Level | Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dBuV | dB | dB | dBuV | dB | |
| 1 | 0.15 | 20.08 | 41.12 | 10.89 | 10.15 | 55.74 | -14.62 | Average |
| 2 | 0.15 | 35.17 | 56.21 | 10.89 | 10.15 | 65.74 | -9.53 | QP |
| 3 | 0.16 | 16.50 | 37.52 | 10.87 | 10.15 | 55.30 | -17.78 | Average |
| 4 | 0.16 | 31.00 | 52.02 | 10.87 | 10.15 | 65.30 | -13.28 | QP |
| 5 | 0.17 | 14.00 | 35.00 | 10.85 | 10.15 | 54.86 | -19.86 | Average |
| 6 | 0.17 | 29.20 | 50.20 | 10.85 | 10.15 | 64.86 | -14.66 | QP |
| 7 | 0.18 | 14.00 | 34.96 | 10.83 | 10.13 | 54.42 | -19.46 | Average |
| 8 | 0.18 | 28.90 | 49.86 | 10.83 | 10.13 | 64.42 | -14.56 | QP |
| 9 | 0.21 | 12.77 | 33.66 | 10.79 | 10.10 | 53.36 | -19.70 | Average |
| 10 | 0.21 | 27.64 | 48.53 | 10.79 | 10.10 | 63.36 | -14.83 | QP |
| 11 | 0.35 | 7.11 | 27.89 | 10.62 | 10.16 | 49.05 | -21.16 | Average |
| 12 | 0.35 | 20.68 | 41.46 | 10.62 | 10.16 | 59.05 | -17.59 | QP |

**AC 120V/60 Hz, Neutral**




Condition: Neutral
Project : SZ1240307-11374E-RF
Tester : Macy shi
Note : 5G WIFI

| | Freq | Read Level | LISN Level | Factor | Cable Loss | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dBuV | dB | dB | dBuV | dB | |
| 1 | 0.16 | 17.93 | 38.64 | 10.56 | 10.15 | 55.47 | -16.83 | Average |
| 2 | 0.16 | 33.54 | 54.25 | 10.56 | 10.15 | 65.47 | -11.22 | QP |
| 3 | 0.18 | 14.00 | 34.58 | 10.46 | 10.12 | 54.33 | -19.75 | Average |
| 4 | 0.18 | 29.20 | 49.78 | 10.46 | 10.12 | 64.33 | -14.55 | QP |
| 5 | 0.20 | 11.48 | 31.97 | 10.40 | 10.09 | 53.62 | -21.65 | Average |
| 6 | 0.20 | 26.90 | 47.39 | 10.40 | 10.09 | 63.62 | -16.23 | QP |
| 7 | 0.32 | 6.57 | 27.25 | 10.55 | 10.13 | 49.75 | -22.50 | Average |
| 8 | 0.32 | 20.20 | 40.88 | 10.55 | 10.13 | 59.75 | -18.87 | QP |
| 9 | 0.50 | 8.15 | 29.00 | 10.70 | 10.15 | 46.00 | -17.00 | Average |
| 10 | 0.50 | 17.63 | 38.48 | 10.70 | 10.15 | 56.00 | -17.52 | QP |
| 11 | 2.74 | 3.53 | 24.17 | 10.40 | 10.24 | 46.00 | -21.83 | Average |
| 12 | 2.74 | 11.71 | 32.35 | 10.40 | 10.24 | 56.00 | -23.65 | QP |

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

## Applicable Standard

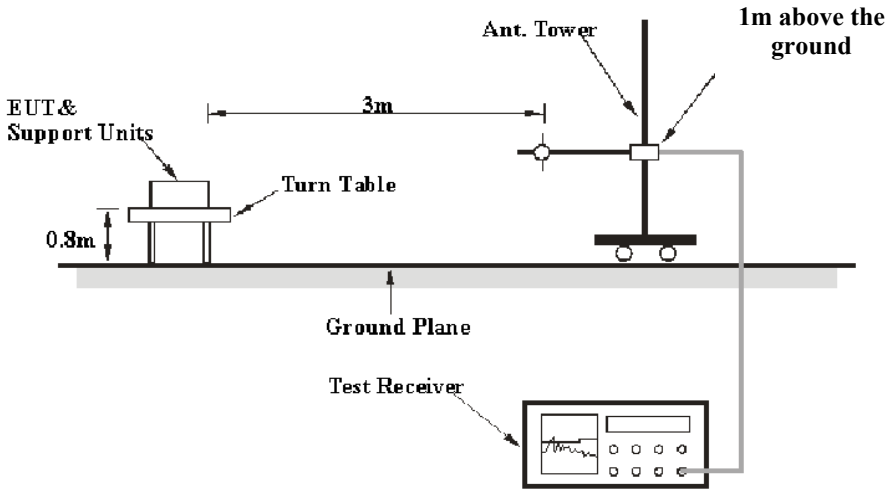
FCC §15.407 (b); §15.209; §15.205;

(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.

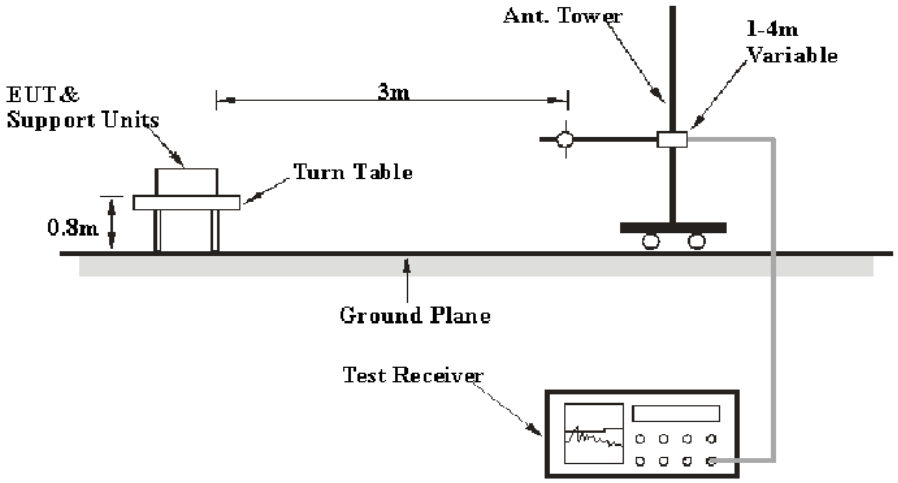
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

## EUT Setup

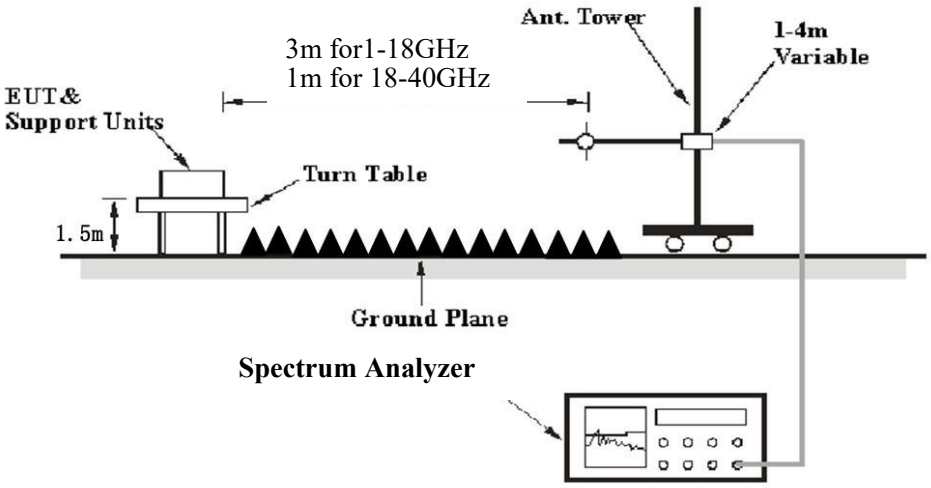
**9 kHz-30MHz:**



**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:

| 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;

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

where

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

So the extrapolation factor of 1m is 20*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:

Factor = Antenna Factor + Cable Loss - 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:

Over Limit = Level – Limit; Margin = Limit–Corrected Amplitude
Level / Corrected Amplitude = Read Level + Factor

## Test Data

### Environmental Conditions

| | |
|---|---|
| **Temperature:** | 25~25.5 ℃ |
| **Relative Humidity:** | 50~55 % |
| **ATM Pressure:** | 101.0 kPa |

*The testing was performed by Warren Huang on 2024-04-12 for below 1GHz and Zenos Qiao on 2024-04-20 for above 1GHz.*

*EUT operation mode: Transmitting*

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

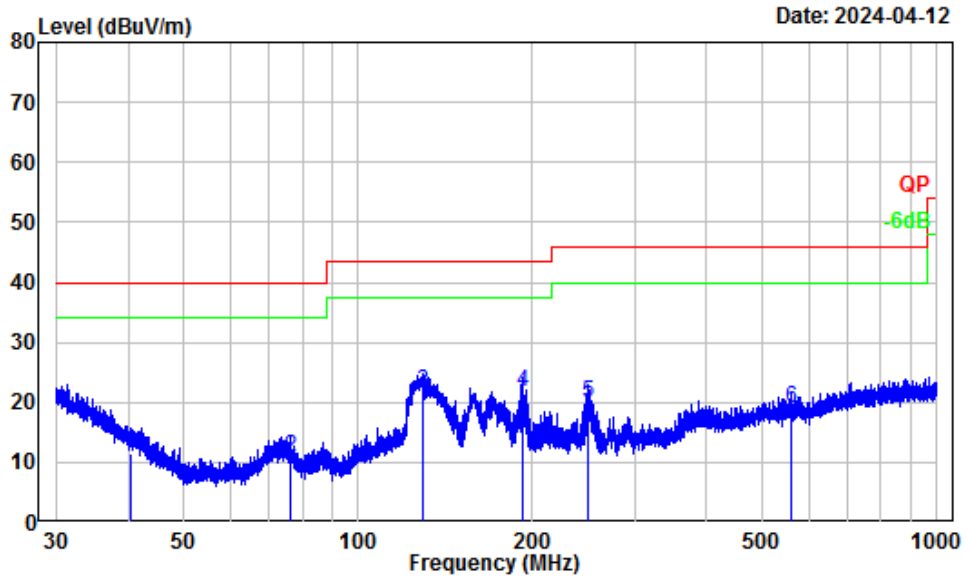
**9 kHz-30MHz:** *(Maximum output mode 802.11AX20 5180MHz Channel)*

Note: The data of 9kHz-30 MHz test is below the 20 dB limit or noise floor which is not recorded

***For adapter 1***

**30 MHz–1 GHz:** *(Maximum output mode 802.11AX20 5180MHz Channel)*

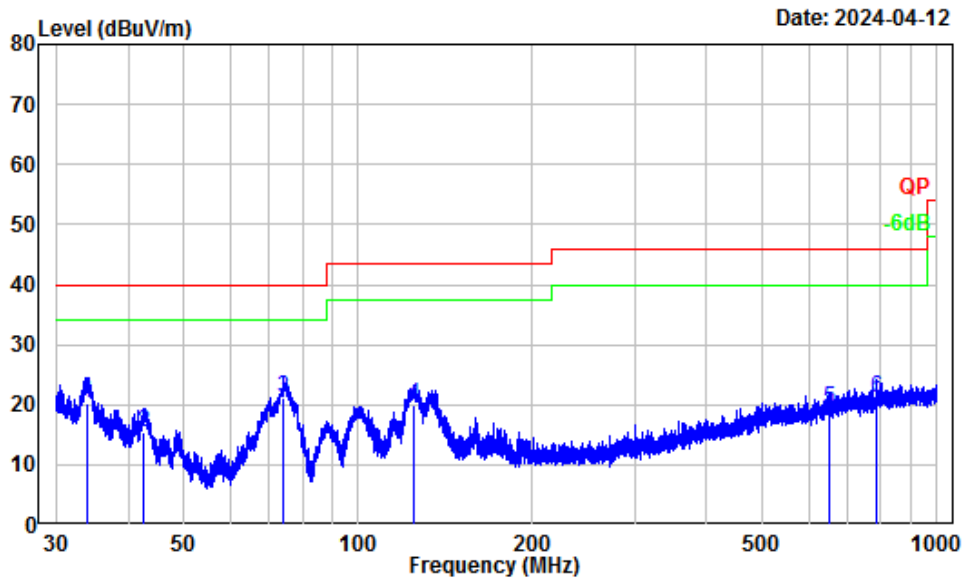
**Horizontal**




Site : Chamber A
Condition : 3m Horizontal
Project Number: SZ1240307-11374E-RF
Note : 5G WIFI
Tester : Warren Huang

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 40.56 | -11.87 | 23.47 | 11.60 | 40.00 | -28.40 | QP |
| 2 | 76.08 | -17.97 | 28.84 | 10.87 | 40.00 | -29.13 | QP |
| 3 | 129.01 | -12.09 | 33.79 | 21.70 | 43.50 | -21.80 | QP |
| 4 | 192.67 | -14.36 | 36.20 | 21.84 | 43.50 | -21.66 | QP |
| 5 | 249.64 | -14.52 | 34.55 | 20.03 | 46.00 | -25.97 | QP |
| 6 | 559.47 | -8.01 | 26.98 | 18.97 | 46.00 | -27.03 | QP |

**Vertical**



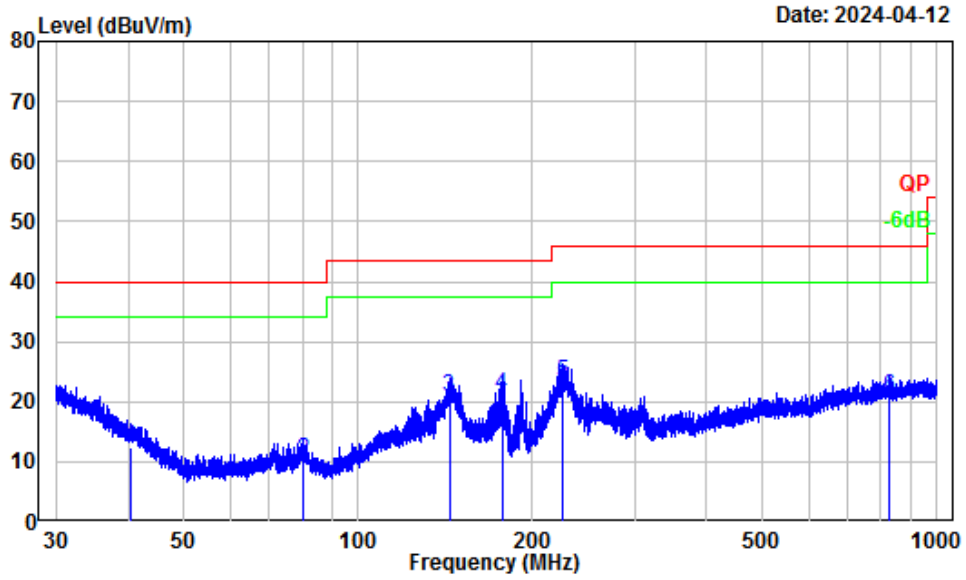

Site : Chamber A
Condition : 3m Vertical
Project Number: SZ1240307-11374E-RF
Note : 5G WIFI
Tester : Warren Huang

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 33.99 | -9.15 | 29.50 | 20.35 | 40.00 | -19.65 | QP |
| 2 | 42.64 | -14.52 | 29.88 | 15.36 | 40.00 | -24.64 | QP |
| 3 | 74.40 | -18.69 | 39.71 | 21.02 | 40.00 | -18.98 | QP |
| 4 | 125.12 | -12.66 | 32.72 | 20.06 | 43.50 | -23.44 | QP |
| 5 | 651.09 | -7.05 | 26.24 | 19.19 | 46.00 | -26.81 | QP |
| 6 | 787.51 | -5.56 | 26.57 | 21.01 | 46.00 | -24.99 | QP |

***For adapter 2***

**30 MHz–1 GHz:** *(Maximum output mode 802.11AX20 5180MHz Channel)*

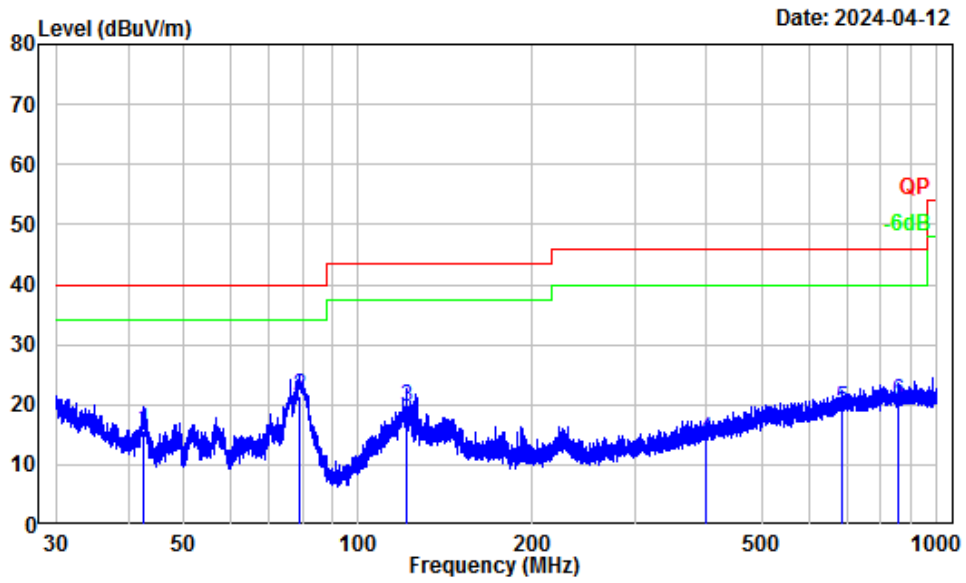
**Horizontal**




Site : Chamber A
Condition : 3m Horizontal
Project Number: SZ1240307-11374E-RF
Note : 5G WIFI
Tester : Warren Huang

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 40.49 | -11.83 | 24.18 | 12.35 | 40.00 | -27.65 | QP |
| 2 | 80.05 | -18.24 | 28.45 | 10.21 | 40.00 | -29.79 | QP |
| 3 | 143.58 | -12.99 | 33.70 | 20.71 | 43.50 | -22.79 | QP |
| 4 | 177.04 | -14.62 | 35.86 | 21.24 | 43.50 | -22.26 | QP |
| 5 | 225.90 | -14.02 | 37.29 | 23.27 | 46.00 | -22.73 | QP |
| 6 | 825.68 | -5.05 | 26.03 | 20.98 | 46.00 | -25.02 | QP |

**Vertical**




Site : Chamber A
Condition : 3m Vertical
Project Number: SZ1240307-11374E-RF
Note : 5G WIFI
Tester : Warren Huang

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 42.43 | -14.39 | 30.11 | 15.72 | 40.00 | -24.28 | QP |
| 2 | 79.21 | -18.73 | 40.18 | 21.45 | 40.00 | -18.55 | QP |
| 3 | 121.28 | -12.74 | 32.34 | 19.60 | 43.50 | -23.90 | QP |
| 4 | 399.21 | -10.82 | 25.06 | 14.24 | 46.00 | -31.76 | QP |
| 5 | 687.45 | -6.70 | 26.14 | 19.44 | 46.00 | -26.56 | QP |
| 6 | 860.41 | -5.06 | 25.62 | 20.56 | 46.00 | -25.44 | QP |

**Above 1GHz:**

**5150-5250 MHz:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Corrected Amplitude (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | PK/AV | | | | | |
| **802.11a** | | | | | | | |
| 5180MHz | | | | | | | |
| 5148.33 | 57.23 | PK | H | 2.70 | 59.93 | 74 | -14.07 |
| 5148.33 | 41.84 | AV | H | 2.70 | 44.54 | 54 | -9.46 |
| 5149.06 | 56.35 | PK | V | 2.71 | 59.06 | 74 | -14.94 |
| 5149.06 | 41.56 | AV | V | 2.71 | 44.27 | 54 | -9.73 |
| 10360.00 | 45.56 | PK | H | 13.07 | 58.63 | 68.2 | -9.57 |
| 10360.00 | 45.39 | PK | V | 13.07 | 58.46 | 68.2 | -9.74 |
| 5200MHz | | | | | | | |
| 10400.00 | 45.93 | PK | H | 13.12 | 59.05 | 68.2 | -9.15 |
| 10400.00 | 45.72 | PK | V | 13.12 | 58.84 | 68.2 | -9.36 |
| 5240MHz | | | | | | | |
| 5353.48 | 55.38 | PK | H | 3.07 | 58.45 | 74 | -15.55 |
| 5353.48 | 41.54 | AV | H | 3.07 | 44.61 | 54 | -9.39 |
| 5356.29 | 55.17 | PK | V | 3.07 | 58.24 | 74 | -15.76 |
| 5356.29 | 41.41 | AV | V | 3.07 | 44.48 | 54 | -9.52 |
| 10480.00 | 46.45 | PK | H | 13.07 | 59.52 | 68.2 | -8.68 |
| 10480.00 | 46.24 | PK | V | 13.07 | 59.31 | 68.2 | -8.89 |
| **802.11ac20** | | | | | | | |
| 5180MHz | | | | | | | |
| 4822.14 | 55.86 | PK | H | 1.69 | 57.55 | 74 | -16.45 |
| 4822.14 | 41.78 | AV | H | 1.69 | 43.47 | 54 | -10.53 |
| 4945.37 | 55.57 | PK | V | 1.79 | 57.36 | 74 | -16.64 |
| 4945.37 | 41.61 | AV | V | 1.79 | 43.40 | 54 | -10.60 |
| 10360.00 | 45.87 | PK | H | 13.07 | 58.94 | 68.2 | -9.26 |
| 10360.00 | 45.64 | PK | V | 13.07 | 58.71 | 68.2 | -9.49 |
| 5200MHz | | | | | | | |
| 10400.00 | 46.21 | PK | H | 13.12 | 59.33 | 68.2 | -8.87 |
| 10400.00 | 45.98 | PK | V | 13.12 | 59.10 | 68.2 | -9.10 |
| 5240MHz | | | | | | | |
| 5359.52 | 55.69 | PK | H | 3.07 | 58.76 | 74 | -15.24 |
| 5359.52 | 41.53 | AV | H | 3.07 | 44.60 | 54 | -9.40 |
| 5355.75 | 55.42 | PK | V | 3.07 | 58.49 | 74 | -15.51 |
| 5355.75 | 41.36 | AV | V | 3.07 | 44.43 | 54 | -9.57 |
| 10480.00 | 46.68 | PK | H | 13.07 | 59.75 | 68.2 | -8.45 |
| 10480.00 | 46.49 | PK | V | 13.07 | 59.56 | 68.2 | -8.64 |

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Corrected Amplitude (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | PK/AV | | | | | |
| **802.11ac40** | | | | | | | |
| 5190MHz | | | | | | | |
| 5149.59 | 56.22 | PK | H | 2.71 | 58.93 | 74 | -15.07 |
| 5149.59 | 43.39 | AV | H | 2.71 | 46.10 | 54 | -7.90 |
| 5149.24 | 55.98 | PK | V | 2.71 | 58.69 | 74 | -15.31 |
| 5149.24 | 43.15 | AV | V | 2.71 | 45.86 | 54 | -8.14 |
| 10380.00 | 45.57 | PK | H | 13.09 | 58.66 | 68.2 | -9.54 |
| 10380.00 | 45.32 | PK | V | 13.09 | 58.41 | 68.2 | -9.79 |
| 5230MHz | | | | | | | |
| 5459.12 | 55.54 | PK | H | 3.59 | 59.13 | 74 | -14.87 |
| 5459.12 | 42.15 | AV | H | 3.59 | 45.74 | 54 | -8.26 |
| 5455.46 | 55.36 | PK | V | 3.59 | 58.95 | 74 | -15.05 |
| 5455.46 | 41.98 | AV | V | 3.59 | 45.57 | 54 | -8.43 |
| 10460.00 | 46.24 | PK | H | 13.09 | 59.33 | 68.2 | -8.87 |
| 10460.00 | 46.03 | PK | V | 13.09 | 59.12 | 68.2 | -9.08 |
| **802.11ac80** | | | | | | | |
| 5210MHz | | | | | | | |
| 5147.65 | 56.25 | PK | H | 2.70 | 58.95 | 74 | -15.05 |
| 5147.65 | 43.84 | AV | H | 2.70 | 46.54 | 54 | -7.46 |
| 5148.18 | 56.02 | PK | V | 2.70 | 58.72 | 74 | -15.28 |
| 5148.18 | 43.67 | AV | V | 2.70 | 46.37 | 54 | -7.63 |
| 5455.27 | 55.38 | PK | H | 3.59 | 58.97 | 74 | -15.03 |
| 5455.27 | 43.01 | AV | H | 3.59 | 46.60 | 54 | -7.40 |
| 5449.52 | 55.23 | PK | V | 3.27 | 58.50 | 74 | -15.50 |
| 5449.52 | 42.87 | AV | V | 3.27 | 46.14 | 54 | -7.86 |
| 10420.00 | 45.39 | PK | H | 13.12 | 58.51 | 68.2 | -9.69 |
| 10420.00 | 45.16 | PK | V | 13.12 | 58.28 | 68.2 | -9.92 |

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Corrected Amplitude (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | PK/AV | | | | | |
| **802.11ax20** | | | | | | | |
| 5180MHz | | | | | | | |
| 5149.53 | 56.79 | PK | H | 2.71 | 59.50 | 74 | -14.50 |
| 5149.53 | 41.93 | AV | H | 2.71 | 44.64 | 54 | -9.36 |
| 5149.68 | 56.45 | PK | V | 2.71 | 59.16 | 74 | -14.84 |
| 5149.68 | 41.68 | AV | V | 2.71 | 44.39 | 54 | -9.61 |
| 10360.00 | 45.89 | PK | H | 13.07 | 58.96 | 68.2 | -9.24 |
| 10360.00 | 45.56 | PK | V | 13.07 | 58.63 | 68.2 | -9.57 |
| 5200MHz | | | | | | | |
| 10400.00 | 46.25 | PK | H | 13.12 | 59.37 | 68.2 | -8.83 |
| 10400.00 | 46.02 | PK | V | 13.12 | 59.14 | 68.2 | -9.06 |
| 5240MHz | | | | | | | |
| 5457.85 | 55.56 | PK | H | 3.59 | 59.15 | 74 | -14.85 |
| 5457.85 | 41.64 | AV | H | 3.59 | 45.23 | 54 | -8.77 |
| 5443.36 | 55.38 | PK | V | 3.27 | 58.65 | 74 | -15.35 |
| 5443.36 | 41.41 | AV | V | 3.27 | 44.68 | 54 | -9.32 |
| 10480.00 | 46.54 | PK | H | 13.07 | 59.61 | 68.2 | -8.59 |
| 10480.00 | 46.27 | PK | V | 13.07 | 59.34 | 68.2 | -8.86 |
| **802.11ax40** | | | | | | | |
| 5190MHz | | | | | | | |
| 5149.64 | 56.41 | PK | H | 2.71 | 59.12 | 74 | -14.88 |
| 5149.64 | 43.68 | AV | H | 2.71 | 46.39 | 54 | -7.61 |
| 5148.45 | 56.19 | PK | V | 2.70 | 58.89 | 74 | -15.11 |
| 5148.45 | 43.52 | AV | V | 2.70 | 46.22 | 54 | -7.78 |
| 10380.00 | 45.91 | PK | H | 13.09 | 59.00 | 68.2 | -9.20 |
| 10380.00 | 45.66 | PK | V | 13.09 | 58.75 | 68.2 | -9.45 |
| 5230MHz | | | | | | | |
| 5355.01 | 55.68 | PK | H | 3.07 | 58.75 | 74 | -15.25 |
| 5355.01 | 42.03 | AV | H | 3.07 | 45.10 | 54 | -8.90 |
| 5352.28 | 55.42 | PK | V | 3.07 | 58.49 | 74 | -15.51 |
| 5352.28 | 41.84 | AV | V | 3.07 | 44.91 | 54 | -9.09 |
| 10460.00 | 46.45 | PK | H | 13.09 | 59.54 | 68.2 | -8.66 |
| 10460.00 | 46.19 | PK | V | 13.09 | 59.28 | 68.2 | -8.92 |

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Corrected Amplitude (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | PK/AV | | | | | |
| **802.11ax80** | | | | | | | |
| 5210MHz | | | | | | | |
| 5149.45 | 56.25 | PK | H | 2.71 | 58.96 | 74 | -15.04 |
| 5149.45 | 44.17 | AV | H | 2.71 | 46.88 | 54 | -7.12 |
| 5149.72 | 55.96 | PK | V | 2.71 | 58.67 | 74 | -15.33 |
| 5149.72 | 44.02 | AV | V | 2.71 | 46.73 | 54 | -7.27 |
| 5353.58 | 55.52 | PK | H | 3.07 | 58.59 | 74 | -15.41 |
| 5353.58 | 43.08 | AV | H | 3.07 | 46.15 | 54 | -7.85 |
| 5351.97 | 55.26 | PK | V | 3.07 | 58.33 | 74 | -15.67 |
| 5351.97 | 42.91 | AV | V | 3.07 | 45.98 | 54 | -8.02 |
| 10420.00 | 45.57 | PK | H | 13.12 | 58.69 | 68.2 | -9.51 |
| 10420.00 | 45.32 | PK | V | 13.12 | 58.44 | 68.2 | -9.76 |

**5725-5850 MHz:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Corrected Amplitude (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | PK/AV | | | | | |
| **802.11a** | | | | | | | |
| 5745MHz | | | | | | | |
| 5646.49 | 54.98 | PK | H | 3.59 | 58.57 | 68.20 | -9.63 |
| 5695.91 | 57.07 | PK | H | 3.69 | 60.76 | 105.20 | -44.44 |
| 5718.28 | 63.46 | PK | H | 4.09 | 67.55 | 110.80 | -43.25 |
| 5723.84 | 67.59 | PK | H | 4.09 | 71.68 | 122.20 | -50.52 |
| 5638.48 | 54.75 | PK | V | 3.59 | 58.34 | 68.20 | -9.86 |
| 5699.96 | 56.53 | PK | V | 3.79 | 60.32 | 105.20 | -44.88 |
| 5719.72 | 61.92 | PK | V | 4.09 | 66.01 | 110.80 | -44.79 |
| 5724.39 | 66.87 | PK | V | 4.09 | 70.96 | 122.20 | -51.24 |
| 11490.00 | 44.87 | PK | H | 14.31 | 59.18 | 74 | -14.82 |
| 11490.00 | 30.68 | AV | H | 14.31 | 44.99 | 54 | -9.01 |
| 11490.00 | 44.59 | PK | V | 14.31 | 58.90 | 74 | -15.10 |
| 11490.00 | 30.51 | AV | V | 14.31 | 44.82 | 54 | -9.18 |
| 5785MHz | | | | | | | |
| 11570.00 | 45.56 | PK | H | 14.05 | 59.61 | 74 | -14.39 |
| 11570.00 | 31.24 | AV | H | 14.05 | 45.29 | 54 | -8.71 |
| 11570.00 | 45.31 | PK | V | 14.05 | 59.36 | 74 | -14.64 |
| 11570.00 | 31.02 | AV | V | 14.05 | 45.07 | 54 | -8.93 |
| 5825MHz | | | | | | | |
| 5853.08 | 62.45 | PK | H | 4.09 | 66.54 | 122.20 | -55.66 |
| 5857.15 | 61.39 | PK | H | 4.09 | 65.48 | 110.80 | -45.32 |
| 5875.39 | 56.68 | PK | H | 4.19 | 60.87 | 105.20 | -44.33 |
| 5954.53 | 54.76 | PK | H | 4.01 | 58.77 | 68.20 | -9.43 |
| 5851.64 | 61.36 | PK | V | 4.09 | 65.45 | 122.20 | -56.75 |
| 5856.75 | 60.25 | PK | V | 4.09 | 64.34 | 110.80 | -46.46 |
| 5880.96 | 56.12 | PK | V | 4.19 | 60.31 | 105.20 | -44.89 |
| 5927.32 | 54.51 | PK | V | 4.69 | 59.20 | 68.20 | -9.00 |
| 11650.00 | 46.48 | PK | H | 13.83 | 60.31 | 74 | -13.69 |
| 11650.00 | 31.73 | AV | H | 13.83 | 45.56 | 54 | -8.44 |
| 11650.00 | 46.25 | PK | V | 13.83 | 60.08 | 74 | -13.92 |
| 11650.00 | 31.58 | AV | V | 13.83 | 45.41 | 54 | -8.59 |

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Corrected Amplitude (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | PK/AV | | | | | |
| **802.11ac20** | | | | | | | |
| 5745MHz | | | | | | | |
| 5632.38 | 55.27 | PK | H | 3.59 | 58.86 | 68.20 | -9.34 |
| 5699.02 | 59.13 | PK | H | 3.79 | 62.92 | 105.20 | -42.28 |
| 5719.47 | 65.06 | PK | H | 4.09 | 69.15 | 110.80 | -41.65 |
| 5724.86 | 67.91 | PK | H | 4.09 | 72.00 | 122.20 | -50.20 |
| 5625.72 | 55.05 | PK | V | 3.59 | 58.64 | 68.20 | -9.56 |
| 5698.54 | 58.36 | PK | V | 3.79 | 62.15 | 105.20 | -43.05 |
| 5718.68 | 63.89 | PK | V | 4.09 | 67.98 | 110.80 | -42.82 |
| 5723.93 | 66.42 | PK | V | 4.09 | 70.51 | 122.20 | -51.69 |
| 11490.00 | 44.78 | PK | H | 14.31 | 59.09 | 74 | -14.91 |
| 11490.00 | 30.57 | AV | H | 14.31 | 44.88 | 54 | -9.12 |
| 11490.00 | 44.63 | PK | V | 14.31 | 58.94 | 74 | -15.06 |
| 11490.00 | 30.42 | AV | V | 14.31 | 44.73 | 54 | -9.27 |
| 5785MHz | | | | | | | |
| 11570.00 | 45.45 | PK | H | 14.05 | 59.50 | 74 | -14.50 |
| 11570.00 | 31.09 | AV | H | 14.05 | 45.14 | 54 | -8.86 |
| 11570.00 | 45.27 | PK | V | 14.05 | 59.32 | 74 | -14.68 |
| 11570.00 | 31.93 | AV | V | 14.05 | 45.98 | 54 | -8.02 |
| 5825MHz | | | | | | | |
| 5850.19 | 60.78 | PK | H | 4.09 | 64.87 | 122.20 | -57.33 |
| 5861.52 | 58.93 | PK | H | 4.09 | 63.02 | 110.80 | -47.78 |
| 5895.44 | 56.45 | PK | H | 4.19 | 60.64 | 105.20 | -44.56 |
| 5930.38 | 55.22 | PK | H | 4.69 | 59.91 | 68.20 | -8.29 |
| 5852.53 | 59.63 | PK | V | 4.09 | 63.72 | 122.20 | -58.48 |
| 5856.92 | 58.16 | PK | V | 4.09 | 62.25 | 110.80 | -48.55 |
| 5878.24 | 56.04 | PK | V | 4.19 | 60.23 | 105.20 | -44.97 |
| 5926.47 | 54.97 | PK | V | 4.69 | 59.66 | 68.20 | -8.54 |
| 11650.00 | 46.24 | PK | H | 13.83 | 60.07 | 74 | -13.93 |
| 11650.00 | 31.59 | AV | H | 13.83 | 45.42 | 54 | -8.58 |
| 11650.00 | 46.05 | PK | V | 13.83 | 59.88 | 74 | -14.12 |
| 11650.00 | 31.38 | AV | V | 13.83 | 45.21 | 54 | -8.79 |

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Corrected Amplitude (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | PK/AV | | | | | |
| **802.11ac40** | | | | | | | |
| 5755MHz | | | | | | | |
| 5628.75 | 55.52 | PK | H | 3.59 | 59.11 | 68.20 | -9.09 |
| 5699.67 | 59.87 | PK | H | 3.79 | 63.66 | 105.20 | -41.54 |
| 5719.81 | 63.48 | PK | H | 4.09 | 67.57 | 110.80 | -43.23 |
| 5723.59 | 65.19 | PK | H | 4.09 | 69.28 | 122.20 | -52.92 |
| 5645.92 | 55.31 | PK | V | 3.59 | 58.90 | 68.20 | -9.30 |
| 5698.54 | 58.86 | PK | V | 3.79 | 62.65 | 105.20 | -42.55 |
| 5719.35 | 62.25 | PK | V | 4.09 | 66.34 | 110.80 | -44.46 |
| 5724.06 | 63.94 | PK | V | 4.09 | 68.03 | 122.20 | -54.17 |
| 11510.00 | 46.01 | PK | H | 14.29 | 60.30 | 74 | -13.70 |
| 11510.00 | 31.54 | AV | H | 14.29 | 45.83 | 54 | -8.17 |
| 11510.00 | 45.76 | PK | V | 14.29 | 60.05 | 74 | -13.95 |
| 11510.00 | 31.39 | AV | V | 14.29 | 45.68 | 54 | -8.32 |
| 5795MHz | | | | | | | |
| 5852.14 | 58.95 | PK | H | 4.09 | 63.04 | 122.20 | -59.16 |
| 5868.51 | 57.89 | PK | H | 4.19 | 62.08 | 110.80 | -48.72 |
| 5876.32 | 56.37 | PK | H | 4.19 | 60.56 | 105.20 | -44.64 |
| 5927.68 | 55.28 | PK | H | 4.69 | 59.97 | 68.20 | -8.23 |
| 5850.69 | 58.16 | PK | V | 4.09 | 62.25 | 122.20 | -59.95 |
| 5857.27 | 57.07 | PK | V | 4.09 | 61.16 | 110.80 | -49.64 |
| 5885.75 | 55.94 | PK | V | 4.19 | 60.13 | 105.20 | -45.07 |
| 5930.54 | 55.05 | PK | V | 4.69 | 59.74 | 68.20 | -8.46 |
| 11590.00 | 46.48 | PK | H | 13.97 | 60.45 | 74 | -13.55 |
| 11590.00 | 32.37 | AV | H | 13.97 | 46.34 | 54 | -7.66 |
| 11590.00 | 46.25 | PK | V | 13.97 | 60.22 | 74 | -13.78 |
| 11590.00 | 32.19 | AV | V | 13.97 | 46.16 | 54 | -7.84 |

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Corrected Amplitude (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | PK/AV | | | | | |
| **802.11ac80** | | | | | | | |
| 5775MHz | | | | | | | |
| 5625.78 | 56.31 | PK | H | 3.59 | 59.90 | 68.20 | -8.30 |
| 5698.69 | 60.45 | PK | H | 3.79 | 64.24 | 105.20 | -40.96 |
| 5718.24 | 62.96 | PK | H | 4.09 | 67.05 | 110.80 | -43.75 |
| 5721.86 | 63.68 | PK | H | 4.09 | 67.77 | 122.20 | -54.43 |
| 5623.87 | 56.07 | PK | V | 3.59 | 59.66 | 68.20 | -8.54 |
| 5699.25 | 59.54 | PK | V | 3.79 | 63.33 | 105.20 | -41.87 |
| 5719.64 | 61.63 | PK | V | 4.09 | 65.72 | 110.80 | -45.08 |
| 5724.36 | 62.72 | PK | V | 4.09 | 66.81 | 122.20 | -55.39 |
| 5851.63 | 61.57 | PK | H | 4.09 | 65.66 | 122.20 | -56.54 |
| 5862.28 | 60.22 | PK | H | 4.09 | 64.31 | 110.80 | -46.49 |
| 5883.49 | 57.61 | PK | H | 4.19 | 61.80 | 105.20 | -43.40 |
| 5939.32 | 56.48 | PK | H | 4.69 | 61.17 | 68.20 | -7.03 |
| 5852.45 | 61.19 | PK | V | 4.09 | 65.28 | 122.20 | -56.92 |
| 5864.69 | 59.35 | PK | V | 4.19 | 63.54 | 110.80 | -47.26 |
| 5878.52 | 57.02 | PK | V | 4.19 | 61.21 | 105.20 | -43.99 |
| 5937.27 | 56.24 | PK | V | 4.69 | 60.93 | 68.20 | -7.27 |
| 11550.00 | 46.31 | PK | H | 14.13 | 60.44 | 74 | -13.56 |
| 11550.00 | 33.04 | AV | H | 14.13 | 47.17 | 54 | -6.83 |
| 11550.00 | 46.12 | PK | V | 14.13 | 60.25 | 74 | -13.75 |
| 11550.00 | 32.87 | AV | V | 14.13 | 47.00 | 54 | -7.00 |

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Corrected Amplitude (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | PK/AV | | | | | |
| **802.11ax20** | | | | | | | |
| 5745MHz | | | | | | | |
| 5637.16 | 55.18 | PK | H | 3.59 | 58.77 | 68.20 | -9.43 |
| 5699.09 | 57.55 | PK | H | 3.79 | 61.34 | 105.20 | -43.86 |
| 5719.32 | 64.67 | PK | H | 4.09 | 68.76 | 110.80 | -42.04 |
| 5724.74 | 68.96 | PK | H | 4.09 | 73.05 | 122.20 | -49.15 |
| 5636.54 | 55.01 | PK | V | 3.59 | 58.60 | 68.20 | -9.60 |
| 5699.87 | 56.94 | PK | V | 3.79 | 60.73 | 105.20 | -44.47 |
| 5718.93 | 63.45 | PK | V | 4.09 | 67.54 | 110.80 | -43.26 |
| 5723.75 | 67.52 | PK | V | 4.09 | 71.61 | 122.20 | -50.59 |
| 11490.00 | 45.56 | PK | H | 14.31 | 59.87 | 74 | -14.13 |
| 11490.00 | 30.89 | AV | H | 14.31 | 45.20 | 54 | -8.80 |
| 11490.00 | 45.35 | PK | V | 14.31 | 59.66 | 74 | -14.34 |
| 11490.00 | 30.67 | AV | V | 14.31 | 44.98 | 54 | -9.02 |
| 5785MHz | | | | | | | |
| 11570.00 | 46.09 | PK | H | 14.05 | 60.14 | 74 | -13.86 |
| 11570.00 | 31.32 | AV | H | 14.05 | 45.37 | 54 | -8.63 |
| 11570.00 | 46.86 | PK | V | 14.05 | 60.91 | 74 | -13.09 |
| 11570.00 | 31.13 | AV | V | 14.05 | 45.18 | 54 | -8.82 |
| 5825MHz | | | | | | | |
| 5852.01 | 63.72 | PK | H | 4.09 | 67.81 | 122.20 | -54.39 |
| 5855.39 | 61.84 | PK | H | 4.09 | 65.93 | 110.80 | -44.87 |
| 5881.64 | 60.69 | PK | H | 4.19 | 64.88 | 105.20 | -40.32 |
| 5937.85 | 55.37 | PK | H | 4.69 | 60.06 | 68.20 | -8.14 |
| 5850.94 | 62.48 | PK | V | 4.09 | 66.57 | 122.20 | -55.63 |
| 5856.35 | 60.63 | PK | V | 4.09 | 64.72 | 110.80 | -46.08 |
| 5875.87 | 59.35 | PK | V | 4.19 | 63.54 | 105.20 | -41.66 |
| 5938.29 | 55.14 | PK | V | 4.69 | 59.83 | 68.20 | -8.37 |
| 11650.00 | 46.61 | PK | H | 13.83 | 60.44 | 74 | -13.56 |
| 11650.00 | 31.73 | AV | H | 13.83 | 45.56 | 54 | -8.44 |
| 11650.00 | 46.38 | PK | V | 13.83 | 60.21 | 74 | -13.79 |
| 11650.00 | 31.54 | AV | V | 13.83 | 45.37 | 54 | -8.63 |

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Corrected Amplitude (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | PK/AV | | | | | |
| **802.11ax40** | | | | | | | |
| 5755MHz | | | | | | | |
| 5646.06 | 55.78 | PK | H | 3.59 | 59.37 | 68.20 | -8.83 |
| 5696.99 | 60.41 | PK | H | 3.79 | 64.20 | 105.20 | -41.00 |
| 5717.58 | 66.39 | PK | H | 4.09 | 70.48 | 110.80 | -40.32 |
| 5721.83 | 67.95 | PK | H | 4.09 | 72.04 | 122.20 | -50.16 |
| 5648.91 | 55.52 | PK | V | 3.59 | 59.11 | 68.20 | -9.09 |
| 5699.05 | 59.33 | PK | V | 3.79 | 63.12 | 105.20 | -42.08 |
| 5719.36 | 65.15 | PK | V | 4.09 | 69.24 | 110.80 | -41.56 |
| 5724.64 | 66.48 | PK | V | 4.09 | 70.57 | 122.20 | -51.63 |
| 11510.00 | 45.66 | PK | H | 14.29 | 59.95 | 74 | -14.05 |
| 11510.00 | 31.74 | AV | H | 14.29 | 46.03 | 54 | -7.97 |
| 11510.00 | 45.49 | PK | V | 14.29 | 59.78 | 74 | -14.22 |
| 11510.00 | 31.57 | AV | V | 14.29 | 45.86 | 54 | -8.14 |
| 5795MHz | | | | | | | |
| 5851.56 | 60.26 | PK | H | 4.09 | 64.35 | 122.20 | -57.85 |
| 5872.61 | 58.95 | PK | H | 4.19 | 63.14 | 110.80 | -47.66 |
| 5893.19 | 57.18 | PK | H | 4.19 | 61.37 | 105.20 | -43.83 |
| 5927.32 | 55.43 | PK | H | 4.69 | 60.12 | 68.20 | -8.08 |
| 5850.68 | 59.54 | PK | V | 4.09 | 63.63 | 122.20 | -58.57 |
| 5856.45 | 58.07 | PK | V | 4.09 | 62.16 | 110.80 | -48.64 |
| 5879.64 | 56.61 | PK | V | 4.19 | 60.80 | 105.20 | -44.40 |
| 5926.93 | 55.25 | PK | V | 4.69 | 59.94 | 68.20 | -8.26 |
| 11590.00 | 46.58 | PK | H | 13.97 | 60.55 | 74 | -13.45 |
| 11590.00 | 32.39 | AV | H | 13.97 | 46.36 | 54 | -7.64 |
| 11590.00 | 46.42 | PK | V | 13.97 | 60.39 | 74 | -13.61 |
| 11590.00 | 32.21 | AV | V | 13.97 | 46.18 | 54 | -7.82 |

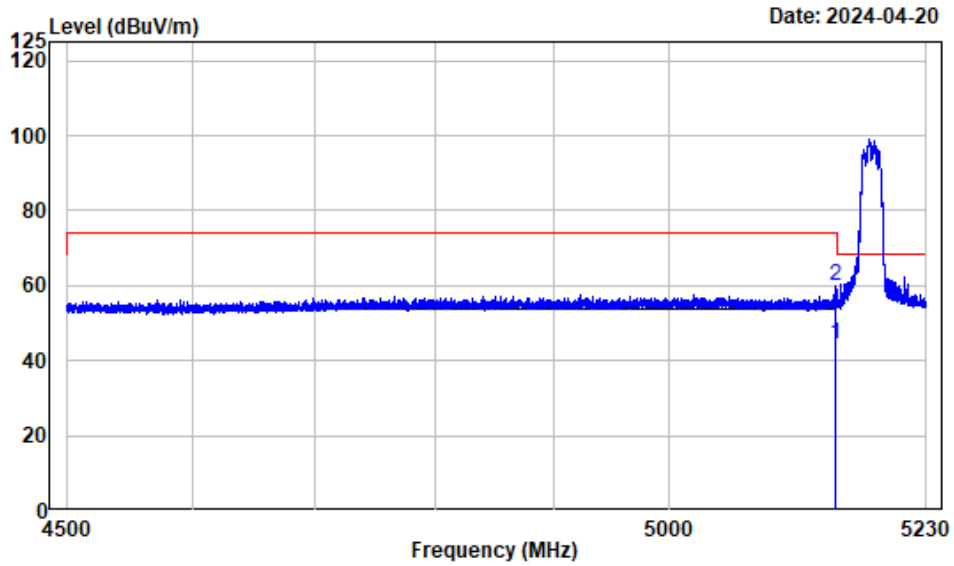
| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Corrected Amplitude (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | PK/AV | | | | | |
| **802.11ax80** | | | | | | | |
| 5775MHz | | | | | | | |
| 5647.65 | 56.03 | PK | H | 3.59 | 59.62 | 68.20 | -8.58 |
| 5699.74 | 60.32 | PK | H | 3.79 | 64.11 | 105.20 | -41.09 |
| 5718.96 | 63.54 | PK | H | 4.09 | 67.63 | 110.80 | -43.17 |
| 5722.27 | 64.78 | PK | H | 4.09 | 68.87 | 122.20 | -53.33 |
| 5649.48 | 55.87 | PK | V | 3.59 | 59.46 | 68.20 | -8.74 |
| 5698.87 | 59.21 | PK | V | 3.79 | 63.00 | 105.20 | -42.20 |
| 5719.25 | 61.34 | PK | V | 4.09 | 65.43 | 110.80 | -45.37 |
| 5723.64 | 63.56 | PK | V | 4.09 | 67.65 | 122.20 | -54.55 |
| 5853.96 | 63.52 | PK | H | 4.09 | 67.61 | 122.20 | -54.59 |
| 5855.84 | 62.27 | PK | H | 4.09 | 66.36 | 110.80 | -44.44 |
| 5881.61 | 57.79 | PK | H | 4.19 | 61.98 | 105.20 | -43.22 |
| 5936.22 | 55.83 | PK | H | 4.69 | 60.52 | 68.20 | -7.68 |
| 5852.75 | 62.38 | PK | V | 4.09 | 66.47 | 122.20 | -55.73 |
| 5857.46 | 61.09 | PK | V | 4.09 | 65.18 | 110.80 | -45.62 |
| 5879.83 | 57.16 | PK | V | 4.19 | 61.35 | 105.20 | -43.85 |
| 5932.54 | 55.64 | PK | V | 4.69 | 60.33 | 68.20 | -7.87 |
| 11550.00 | 46.28 | PK | H | 14.13 | 60.41 | 74 | -13.59 |
| 11550.00 | 33.15 | AV | H | 14.13 | 47.28 | 54 | -6.72 |
| 11550.00 | 46.04 | PK | V | 14.13 | 60.17 | 74 | -13.83 |
| 11550.00 | 32.89 | AV | V | 14.13 | 47.02 | 54 | -6.98 |

**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 Band Edge Measurements (Radiated)**

**5150-5250MHz:**

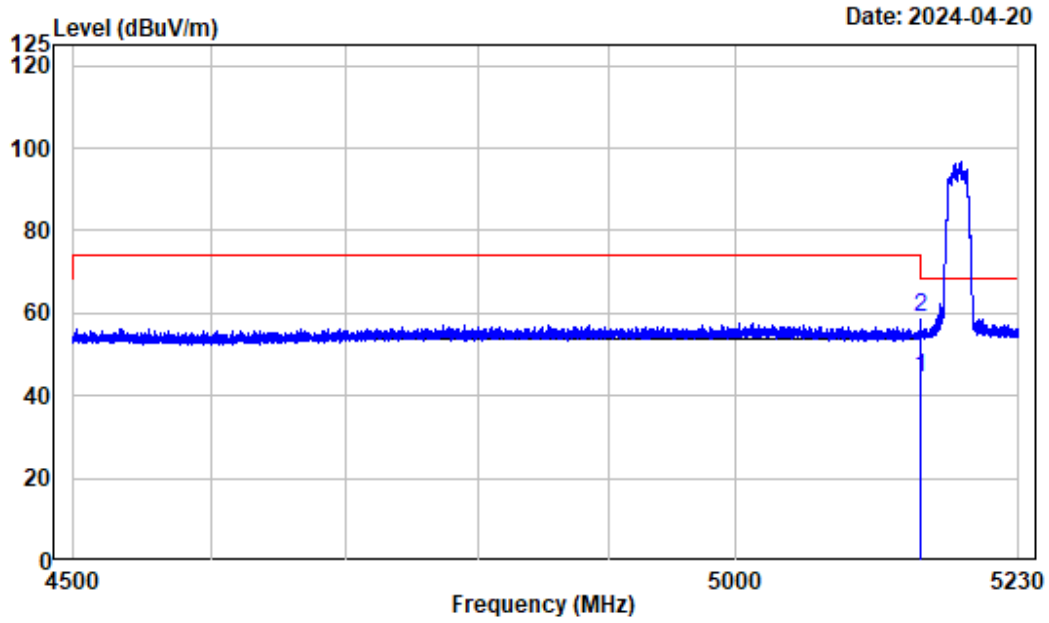
| 802.11a | | | |
|---|---|---|---|
| **Test Channel:** | **5180MHz** | **Ant. Polar. :** | **Horizontal** |




Condition : Horizontal
Project No.: SZ1240307-11374E
Tester : Zenos Qiao
Note : 5GWiFi-Band1-A-5180

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 5148.331 | 2.70 | 41.84 | 44.54 | 54.00 | -9.46 | Average |
| 2 | 5148.331 | 2.70 | 57.23 | 59.93 | 74.00 | -14.07 | Peak |

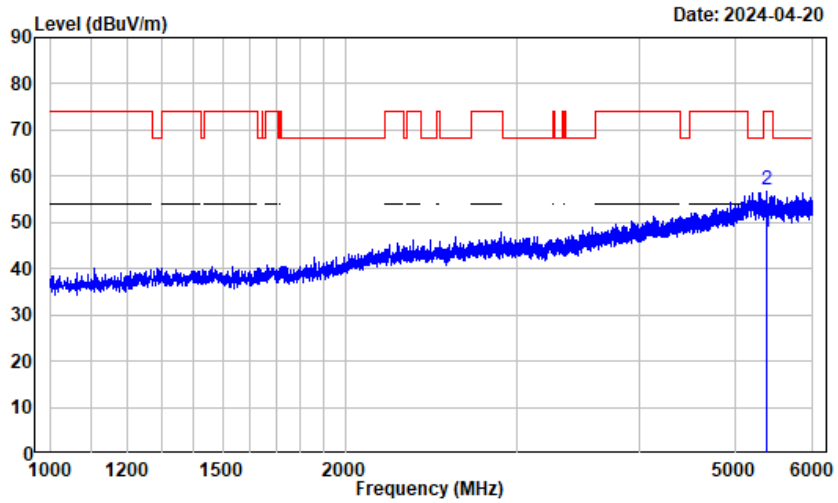
| 802.11a | | | |
|---|---|---|---|
| **Test Channel:** | **5180MHz** | **Ant. Polar. :** | **Vertical** |

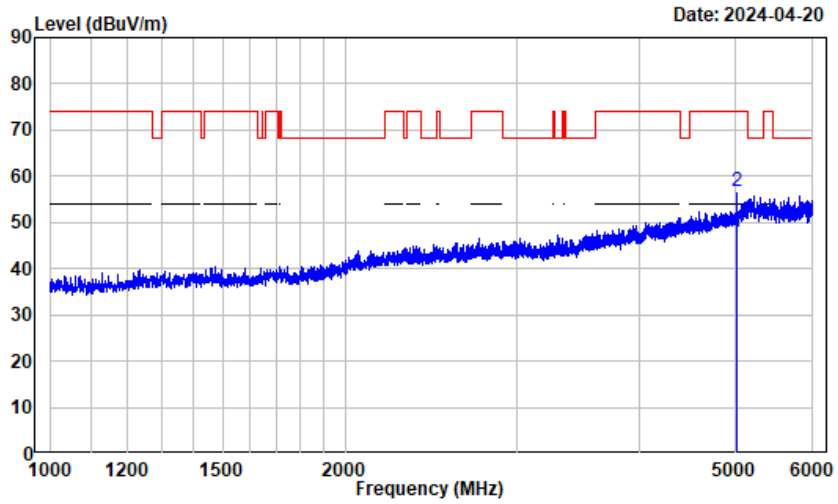


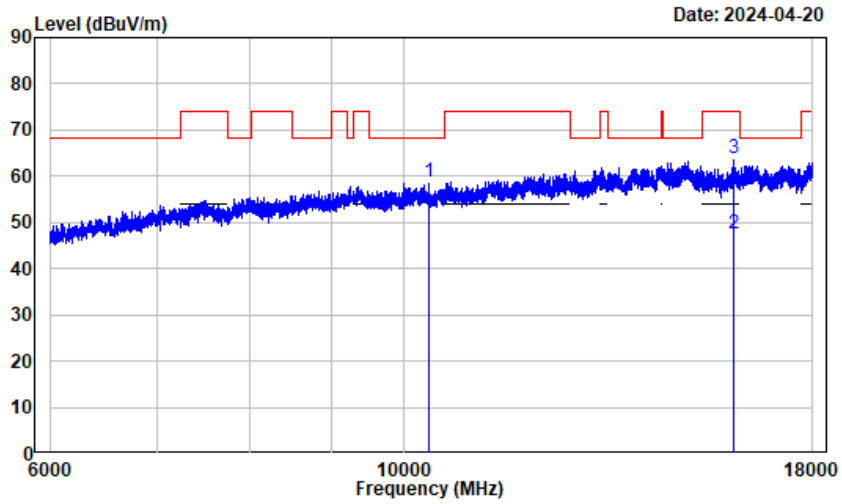

Condition : Vertical
Project No.: SZ1240307-11374E
Tester : Zenos Qiao
Note : 5GWiFi-Band1-A-5180

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 5149.061 | 2.71 | 41.56 | 44.27 | 54.00 | -9.73 | Average |
| 2 | 5149.061 | 2.71 | 56.35 | 59.06 | 74.00 | -14.94 | Peak |

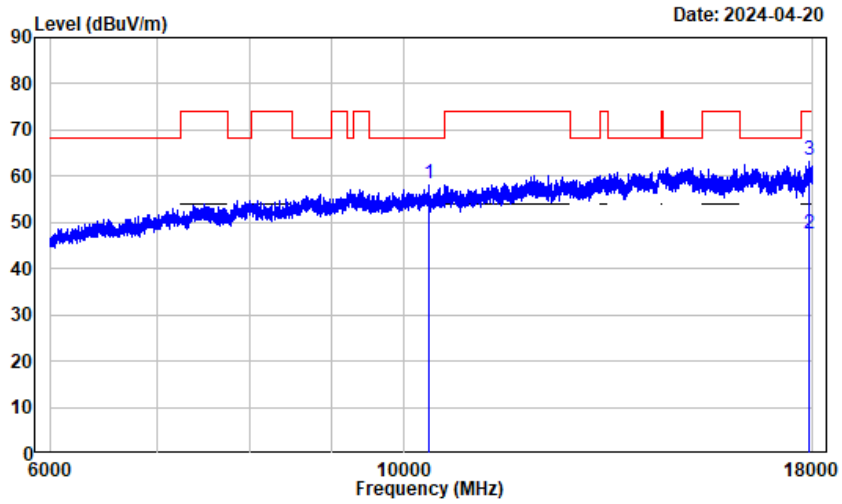
**Listed with the worst harmonic margin test plot**

| Horizontal | |
|---|---|
| 1-6GHz |  <br>Condition : Horizontal<br>Project No.: SZ1240307-11374E<br>Tester : Zenos Qiao<br>Note : 5GWiFi-Band1-A-5180<br><br>Freq / Factor / Read Level / Limit Line / Over Limit / Remark<br>MHz / dB/m / dBuV / dBuV/m / dBuV/m / dB<br>1 5382.500 2.95 44.92 47.87 54.00 -6.13 Average<br>2 5382.500 2.95 54.24 57.19 74.00 -16.81 Peak |

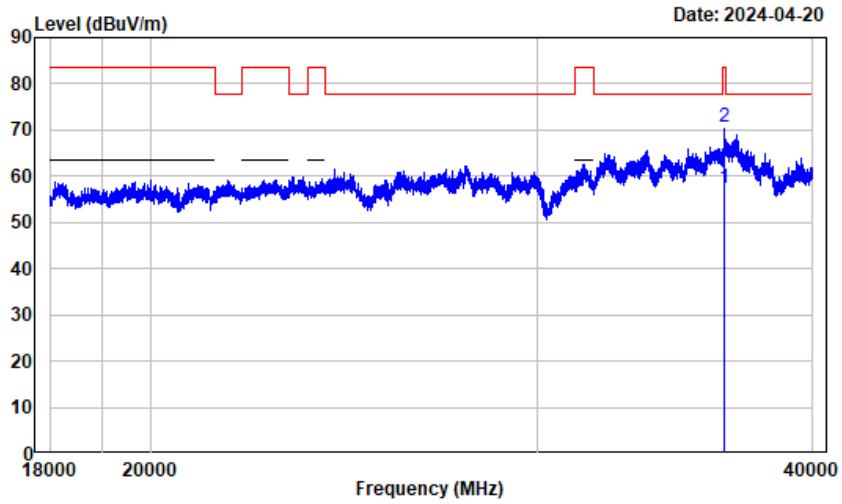
| Vertical | |
|---|---|
| 1-6GHz |  <br>Condition : Vertical<br>Project No.: SZ1240307-11374E<br>Tester : Zenos Qiao<br>Note : 5GWiFi-Band1-A-5180<br><br>\| \| Freq \| Factor \| Read Level \| Level \| Limit Line \| Over Limit \| Remark \|<br>\| \| MHz \| dB/m \| dBuV \| dBuV/m \| dBuV/m \| dB \| \|<br>\| 1 \| 5027.500 \| 2.96 \| 44.76 \| 47.72 \| 54.00 \| -6.28 \| Average \|<br>\| 2 \| 5027.500 \| 2.96 \| 53.84 \| 56.80 \| 74.00 \| -17.20 \| Peak \| |

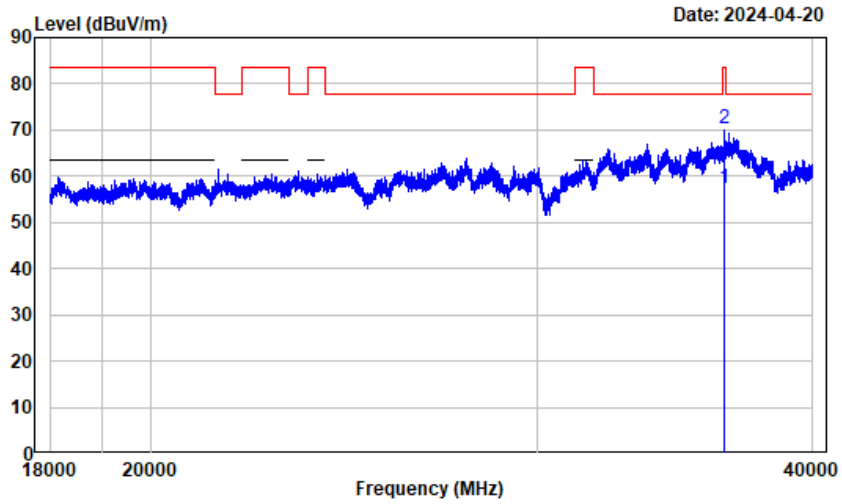
| Horizontal | |
|---|---|
| 6-18GHz |  <br>Condition : Horizontal<br>Project No.: SZ1240307-11374E<br>Tester : Zenos Qiao<br>Note : 5GWiFi-Band1-A-5180 |

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 10360.000 | 13.07 | 45.56 | 58.63 | 68.20 | -9.57 | Peak |
| 2 | 16062.000 | 13.77 | 33.91 | 47.68 | 54.00 | -6.32 | Average |
| 3 | 16062.000 | 13.77 | 50.08 | 63.85 | 74.00 | -10.15 | Peak |

| Vertical | |
|---|---|
| 6-18GHz |  <br>Condition : Vertical<br>Project No.: SZ1240307-11374E<br>Tester : Zenos Qiao<br>Note : 5GWiFi-Band1-A-5180 |

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 10360.000 | 13.07 | 45.39 | 58.46 | 68.20 | -9.74 | Peak |
| 2 | 17913.000 | 24.00 | 23.52 | 47.52 | 54.00 | -6.48 | Average |
| 3 | 17913.000 | 24.00 | 39.66 | 63.66 | 74.00 | -10.34 | Peak |

| Horizontal | |
|---|---|
| 18-40GHz |  <br>Condition : Horizontal<br>Project No.: SZ1240307-11374E<br>Tester : Zenos Qiao<br>Note : 5GWiFi-Band1-A-5180<br><br>Freq / Factor / Read Level / Level / Limit Line / Over Limit / Remark<br>MHz / dB/m / dBuV / dBuV/m / dBuV/m / dB<br>1 36484.070 25.34 32.05 57.39 63.50 -6.11 Average<br>2 36484.070 25.34 45.16 70.50 83.50 -13.00 Peak |

| Vertical | |
|---|---|
| 18-40GHz |  <br>Condition : Vertical<br>Project No.: SZ1240307-11374E<br>Tester : Zenos Qiao<br>Note : 5GWiFi-Band1-A-5180<br><br>Freq / Factor / Read Level / Level / Limit Line / Over Limit / Remark<br>MHz / dB/m / dBuV / dBuV/m / dBuV/m / dB<br>1 36480.690 25.32 31.92 57.24 63.50 -6.26 Average<br>2 36480.690 25.32 44.90 70.22 83.50 -13.28 Peak |

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

## Applicable Standard

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

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

## Test Procedure

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%.

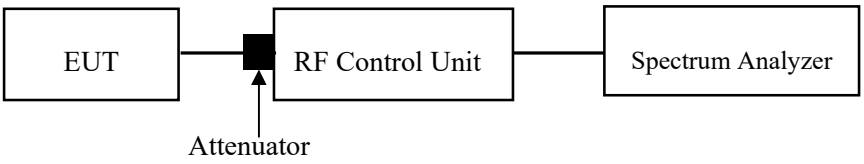
**2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz**
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 × 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 (OBW/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:** | 26~28 ℃ |
| **Relative Humidity:** | 52~56 % |
| **ATM Pressure:** | 101.0 kPa |

*The testing was performed by Lee Li on 2024-04-23*

*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.

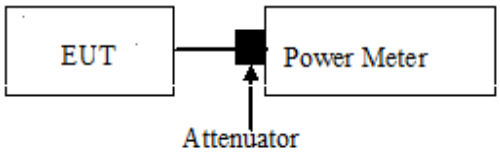
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 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

a. Place the EUT on a bench and set it in transmitting mode.
b. 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

| | |
|---|---|
| **Temperature:** | 26~28 ℃ |
| **Relative Humidity:** | 52~56 % |
| **ATM Pressure:** | 101.0 kPa |

*The testing was performed by Lee Li on 2024-04-23*

*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 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 ≥98%

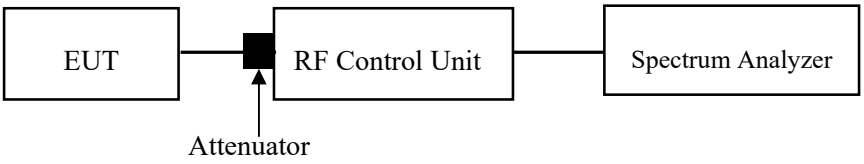
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle <98%, duty cycle variations are less than ±2%

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

Duty cycle <98%, duty cycle variations exceed ±2%

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



## Test Data

### Environmental Conditions

| | |
|---|---|
| **Temperature:** | 26~28 ℃ |
| **Relative Humidity:** | 52~56 % |
| **ATM Pressure:** | 101.0 kPa |

*The testing was performed by Lee Li on 2024-04-23*

*EUT operation mode: Transmitting*

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

# EUT PHOTOGRAPHS

Please refer to the attachment SZ1240307-11374E-RF External photo and SZ1240307-11374E-RF Internal photo.

# TEST SETUP PHOTOGRAPHS

Please refer to the attachment SZ1240307-11374E-RF Test Setup photo.

# APPENDIX

## Appendix A1: Emission Bandwidth

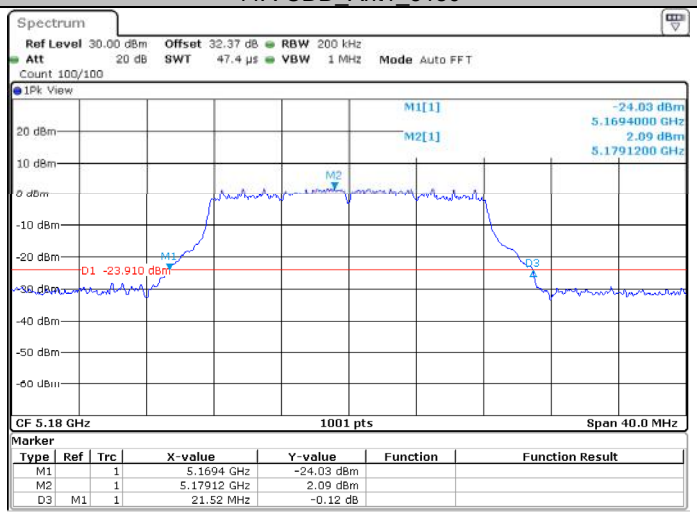
### Test Result

| Test Mode | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A-CDD | Ant1 | 5180 | 21.52 | 5169.40 | 5190.92 | --- | --- |
| | Ant2 | 5180 | 21.64 | 5168.92 | 5190.56 | --- | --- |
| | Ant1 | 5200 | 21.32 | 5189.32 | 5210.64 | --- | --- |
| | Ant2 | 5200 | 21.88 | 5188.88 | 5210.76 | --- | --- |
| | Ant1 | 5240 | 21.24 | 5229.40 | 5250.64 | --- | --- |
| | Ant2 | 5240 | 21.52 | 5229.16 | 5250.68 | --- | --- |
| | Ant1 | 5745 | 21.88 | 5733.96 | 5755.84 | --- | --- |
| | Ant2 | 5745 | 21.92 | 5734.08 | 5756.00 | --- | --- |
| | Ant1 | 5785 | 28.92 | 5766.96 | 5795.88 | --- | --- |
| | Ant2 | 5785 | 21.68 | 5774.12 | 5795.80 | --- | --- |
| | Ant1 | 5825 | 21.72 | 5814.04 | 5835.76 | --- | --- |
| | Ant2 | 5825 | 21.64 | 5814.20 | 5835.84 | --- | --- |
| 11AC20MIMO | Ant1 | 5180 | 21.72 | 5169.04 | 5190.76 | --- | --- |
| | Ant2 | 5180 | 21.72 | 5169.16 | 5190.88 | --- | --- |
| | Ant1 | 5200 | 21.72 | 5189.20 | 5210.92 | --- | --- |
| | Ant2 | 5200 | 21.44 | 5189.24 | 5210.68 | --- | --- |
| | Ant1 | 5240 | 21.64 | 5229.20 | 5250.84 | --- | --- |
| | Ant2 | 5240 | 22.44 | 5228.32 | 5250.76 | --- | --- |
| | Ant1 | 5745 | 21.80 | 5734.00 | 5755.80 | --- | --- |
| | Ant2 | 5745 | 24.68 | 5733.28 | 5757.96 | --- | --- |
| | Ant1 | 5785 | 21.92 | 5773.88 | 5795.80 | --- | --- |
| | Ant2 | 5785 | 22.00 | 5773.88 | 5795.88 | --- | --- |
| | Ant1 | 5825 | 21.76 | 5814.08 | 5835.84 | --- | --- |
| | Ant2 | 5825 | 21.72 | 5814.08 | 5835.80 | --- | --- |
| 11AC40MIMO | Ant1 | 5190 | 40.88 | 5169.52 | 5210.40 | --- | --- |
| | Ant2 | 5190 | 40.48 | 5169.76 | 5210.24 | --- | --- |
| | Ant1 | 5230 | 40.64 | 5209.68 | 5250.32 | --- | --- |
| | Ant2 | 5230 | 40.64 | 5209.60 | 5250.24 | --- | --- |
| | Ant1 | 5755 | 71.04 | 5717.32 | 5788.36 | --- | --- |
| | Ant2 | 5755 | 78.64 | 5716.12 | 5794.76 | --- | --- |
| | Ant1 | 5795 | 79.52 | 5755.24 | 5834.76 | --- | --- |
| | Ant2 | 5795 | 76.08 | 5758.04 | 5834.12 | --- | --- |
| 11AC80MIMO | Ant1 | 5210 | 154.72 | 5131.76 | 5286.48 | --- | --- |
| | Ant2 | 5210 | 118.56 | 5133.20 | 5251.76 | --- | --- |
| | Ant1 | 5775 | 160.00 | 5695.00 | 5855.00 | --- | --- |
| | Ant2 | 5775 | 160.00 | 5695.00 | 5855.00 | --- | --- |
| 11AX20MIMO | Ant1 | 5180 | 21.24 | 5169.44 | 5190.68 | --- | --- |
| | Ant2 | 5180 | 21.48 | 5169.12 | 5190.60 | --- | --- |
| | Ant1 | 5200 | 21.44 | 5189.20 | 5210.64 | --- | --- |
| | Ant2 | 5200 | 21.36 | 5189.24 | 5210.60 | --- | --- |
| | Ant1 | 5240 | 21.12 | 5229.44 | 5250.56 | --- | --- |
| | Ant2 | 5240 | 21.40 | 5229.16 | 5250.56 | --- | --- |
| | Ant1 | 5745 | 21.48 | 5734.16 | 5755.64 | --- | --- |
| | Ant2 | 5745 | 21.52 | 5734.20 | 5755.72 | --- | --- |
| | Ant1 | 5785 | 21.16 | 5774.44 | 5795.60 | --- | --- |
| | Ant2 | 5785 | 29.84 | 5774.04 | 5803.88 | --- | --- |
| | Ant1 | 5825 | 21.36 | 5814.16 | 5835.52 | --- | --- |
| | Ant2 | 5825 | 21.52 | 5814.40 | 5835.92 | --- | --- |

| Test Mode | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11AX40MIMO | Ant1 | 5190 | 40.80 | 5169.68 | 5210.48 | --- | --- |
| | Ant2 | 5190 | 41.20 | 5169.68 | 5210.88 | --- | --- |
| | Ant1 | 5230 | 40.80 | 5209.76 | 5250.56 | --- | --- |
| | Ant2 | 5230 | 40.88 | 5209.52 | 5250.40 | --- | --- |
| | Ant1 | 5755 | 75.92 | 5717.48 | 5793.40 | --- | --- |
| | Ant2 | 5755 | 80.00 | 5715.00 | 5795.00 | --- | --- |
| | Ant1 | 5795 | 46.48 | 5769.72 | 5816.20 | --- | --- |
| | Ant2 | 5795 | 80.00 | 5755.00 | 5835.00 | --- | --- |
| 11AX80MIMO | Ant1 | 5210 | 103.84 | 5168.56 | 5272.40 | --- | --- |
| | Ant2 | 5210 | 91.68 | 5168.88 | 5260.56 | --- | --- |
| | Ant1 | 5775 | 158.08 | 5696.60 | 5854.68 | --- | --- |
| | Ant2 | 5775 | 160.00 | 5695.00 | 5855.00 | --- | --- |

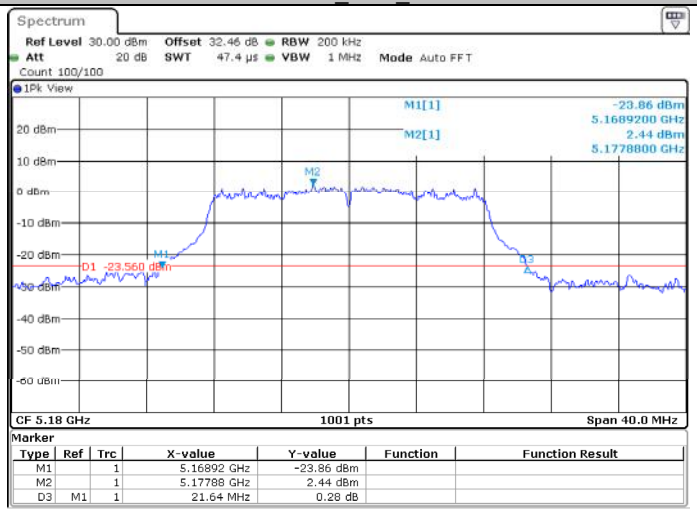
## Test Graphs

11A-CDD_Ant1_5180



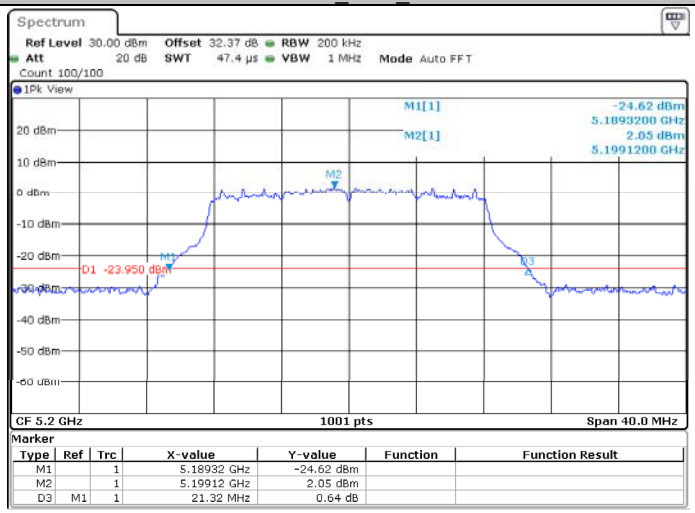

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:53:22

11A-CDD_Ant2_5180




ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:54:13

11A-CDD_Ant1_5200

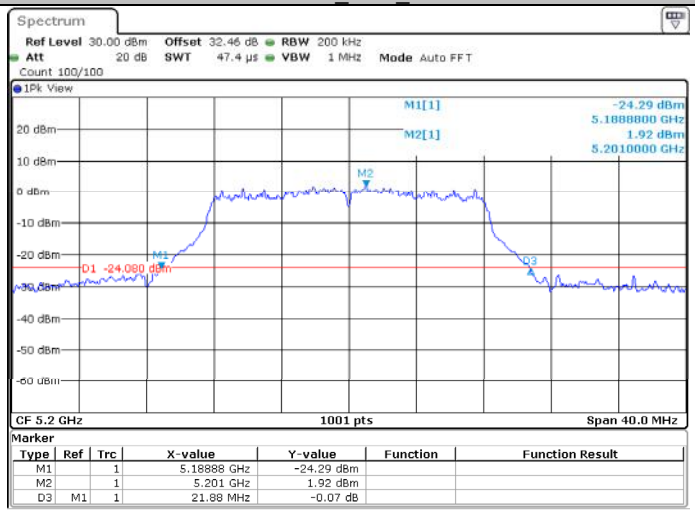



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.18932 GHz | -24.62 dBm | | |
| M2 | | 1 | 5.19912 GHz | 2.05 dBm | | |
| D3 | M1 | 1 | 21.32 MHz | 0.64 dB | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:55:36

11A-CDD_Ant2_5200

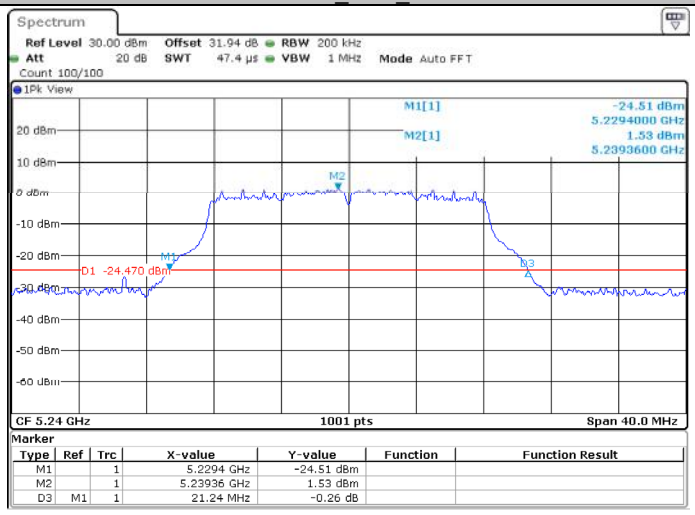



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.18888 GHz | -24.29 dBm | | |
| M2 | | 1 | 5.201 GHz | 1.92 dBm | | |
| D3 | M1 | 1 | 21.88 MHz | -0.07 dB | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:56:27

11A-CDD_Ant1_5240

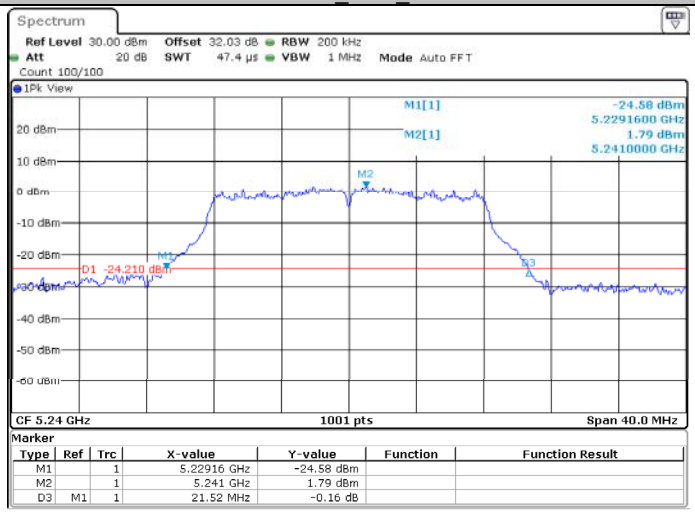



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.2294 GHz | -24.51 dBm | | |
| M2 | | 1 | 5.23936 GHz | 1.53 dBm | | |
| D3 | M1 | 1 | 21.24 MHz | -0.26 dB | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:57:51

11A-CDD_Ant2_5240

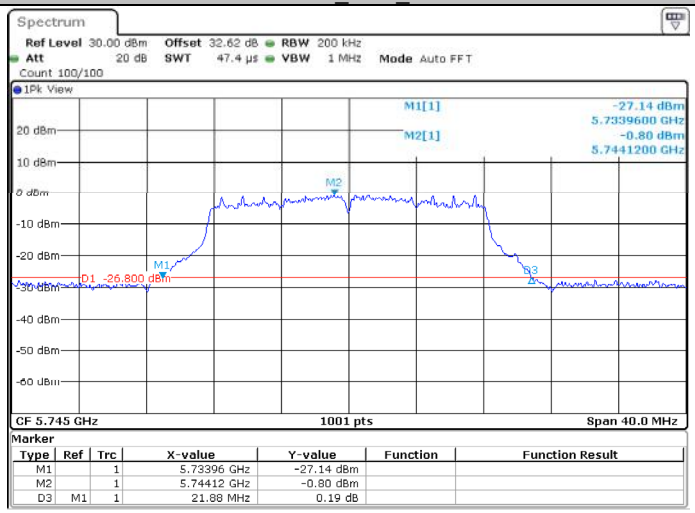



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.22916 GHz | -24.58 dBm | | |
| M2 | | 1 | 5.241 GHz | 1.79 dBm | | |
| D3 | M1 | 1 | 21.52 MHz | -0.16 dB | | |

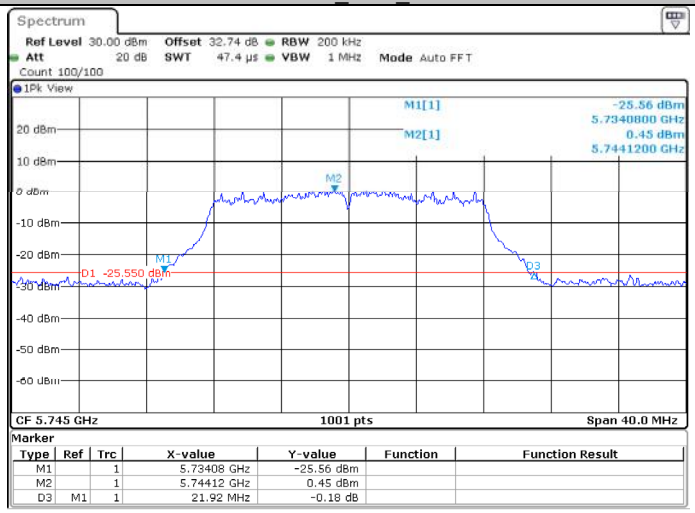
ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:58:41

11A-CDD_Ant1_5745



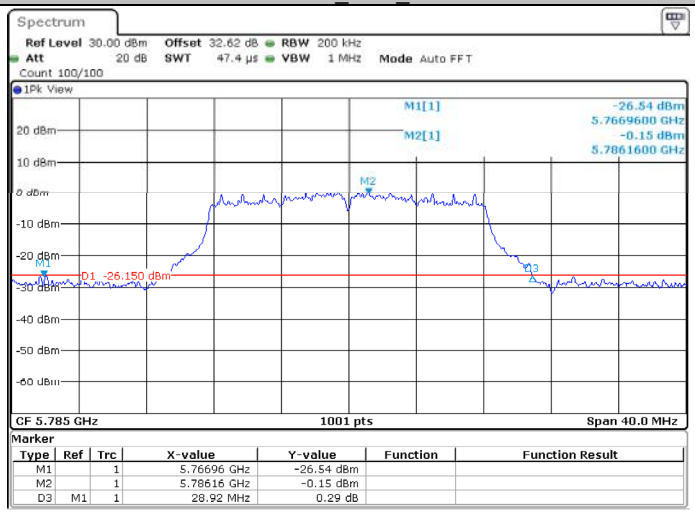

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:44:51

11A-CDD_Ant2_5745



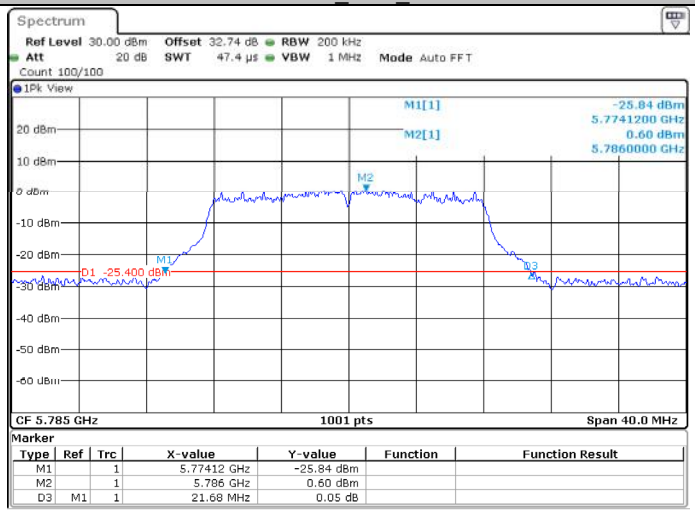

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:45:48

11A-CDD_Ant1_5785




ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:48:19

11A-CDD_Ant2_5785




ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:49:16

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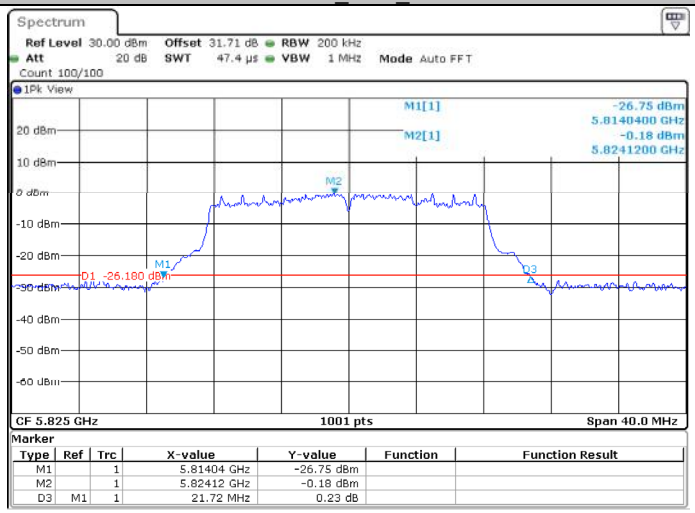
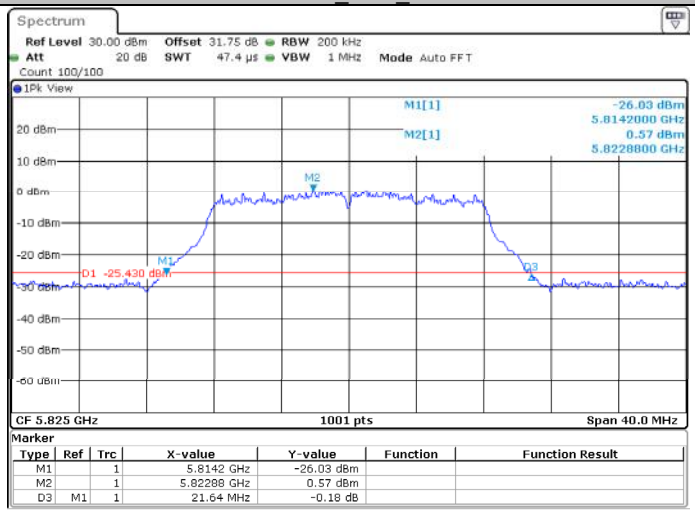


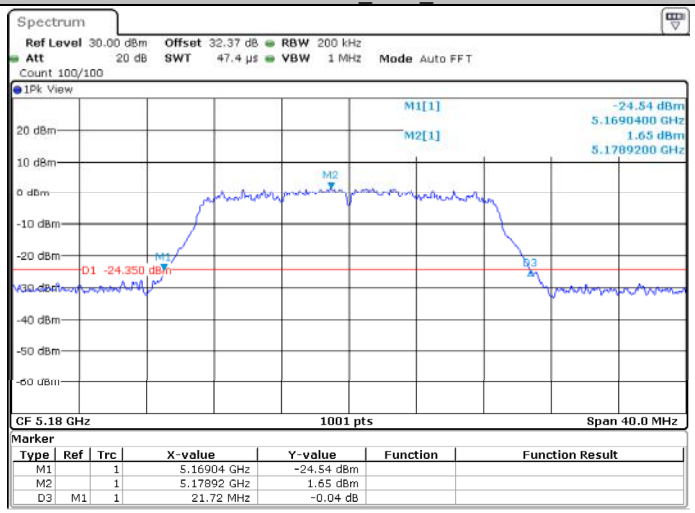

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:50:55

11A-CDD_Ant2_5825



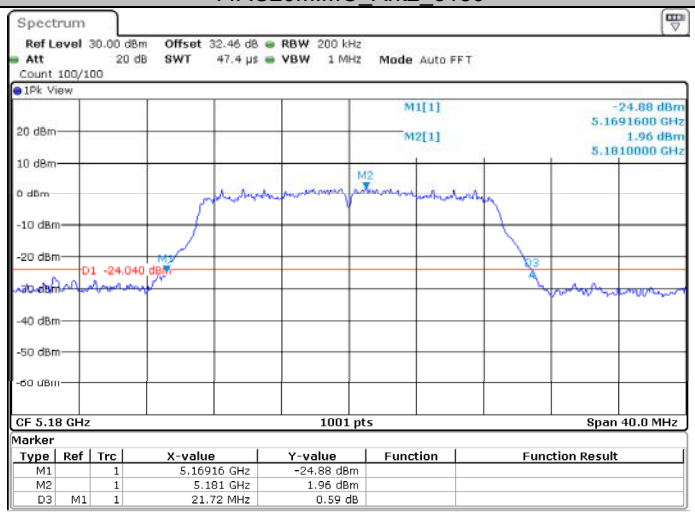

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:51:52

11AC20MIMO_Ant1_5180



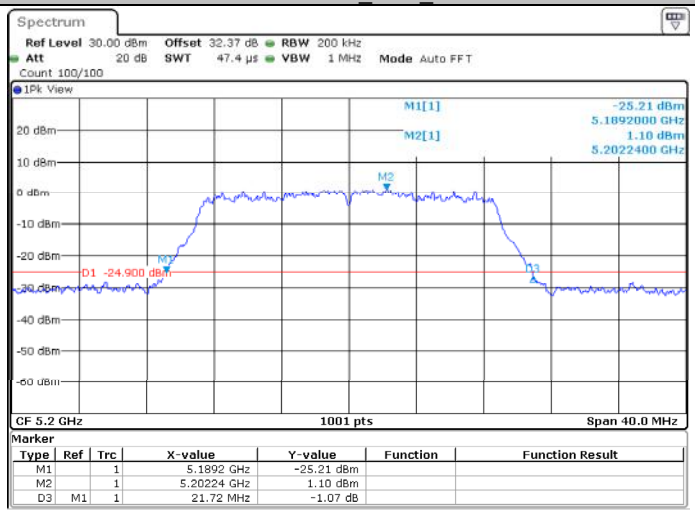

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:11:59

11AC20MIMO_Ant2_5180




ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:13:16

| 11AC20MIMO_Ant1_5200 |
|---|

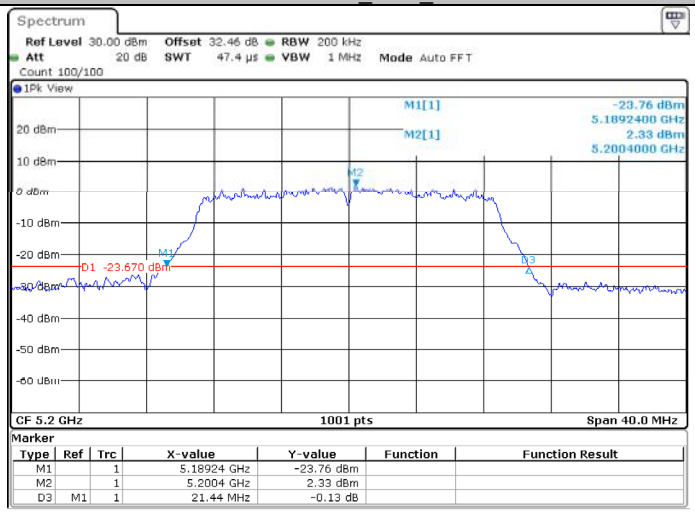



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.1892 GHz | -25.21 dBm | | |
| M2 | | 1 | 5.20224 GHz | 1.10 dBm | | |
| D3 | M1 | 1 | 21.72 MHz | -1.07 dB | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:14:41

| 11AC20MIMO_Ant2_5200 |
|---|

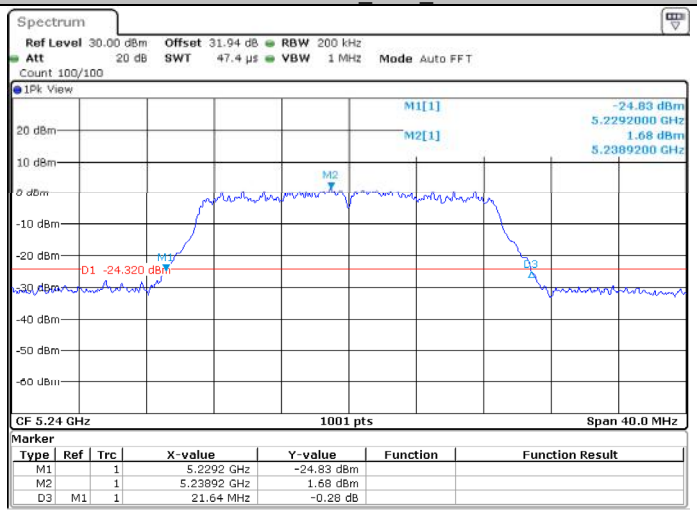



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.18924 GHz | -23.76 dBm | | |
| M2 | | 1 | 5.2004 GHz | 2.33 dBm | | |
| D3 | M1 | 1 | 21.44 MHz | -0.13 dB | | |

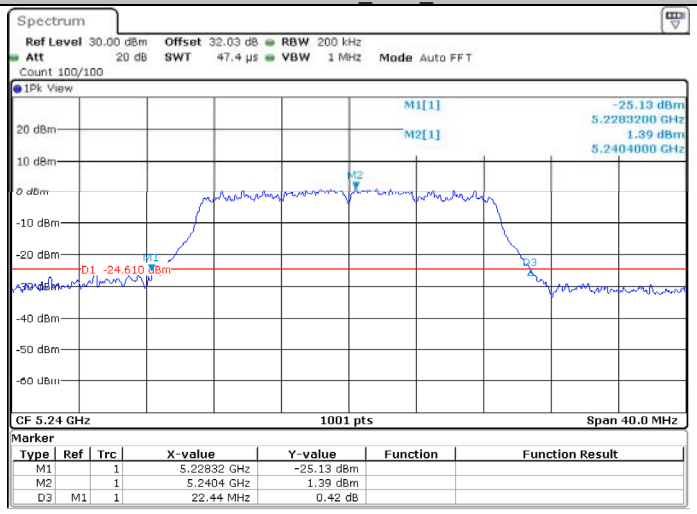
ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:16:11

11AC20MIMO_Ant1_5240



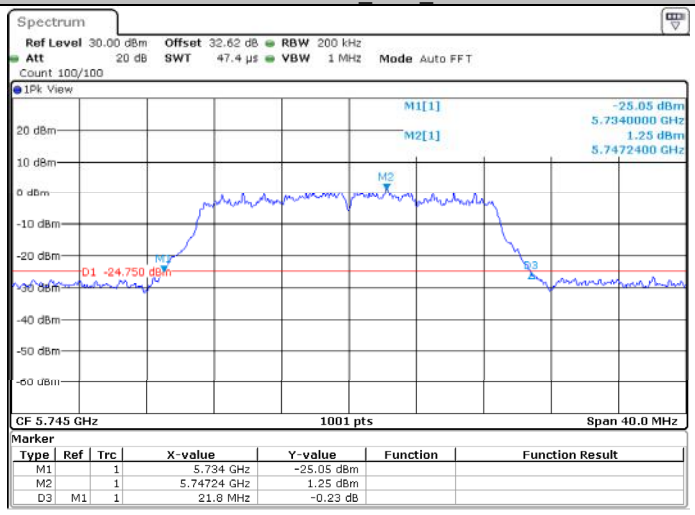

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:17:38

11AC20MIMO_Ant2_5240



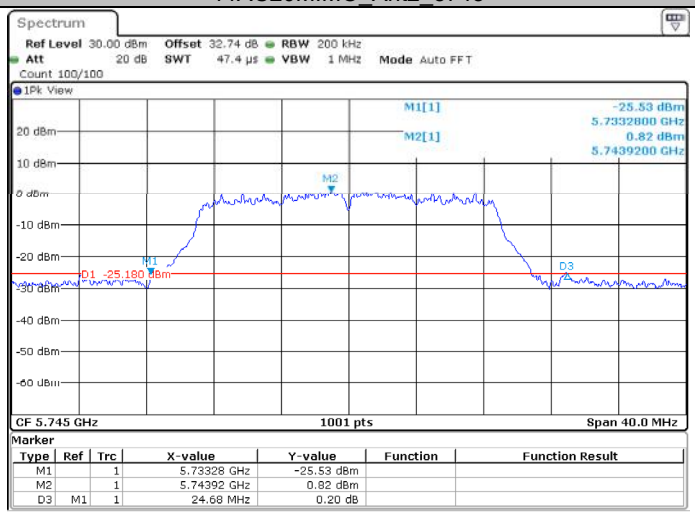

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:18:58

| 11AC20MIMO_Ant1_5745 |
|---|



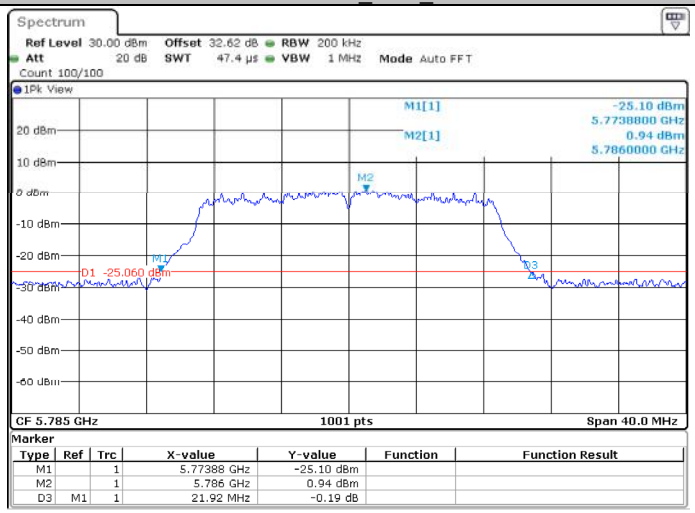

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:31:33

| 11AC20MIMO_Ant2_5745 |
|---|



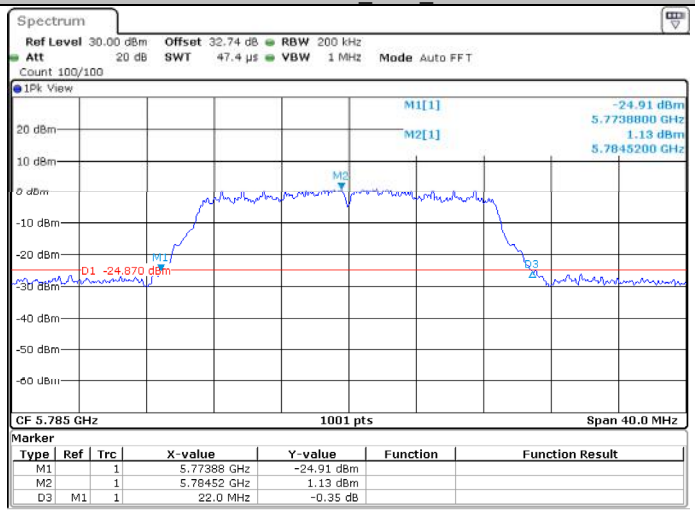

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:32:56

11AC20MIMO_Ant1_5785



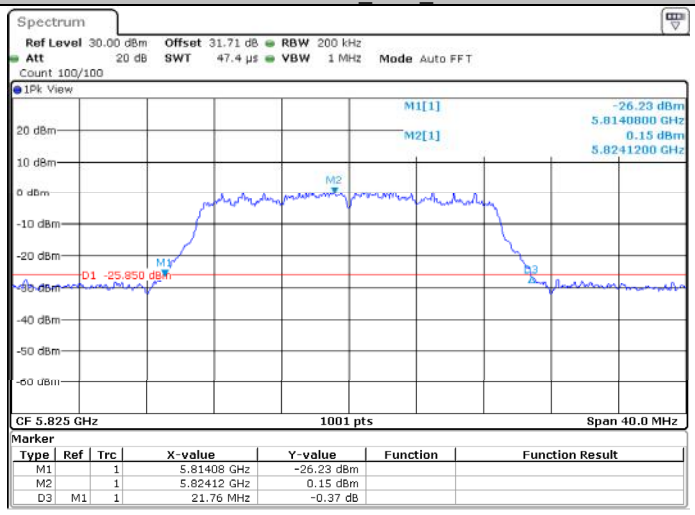

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:25:37

11AC20MIMO_Ant2_5785



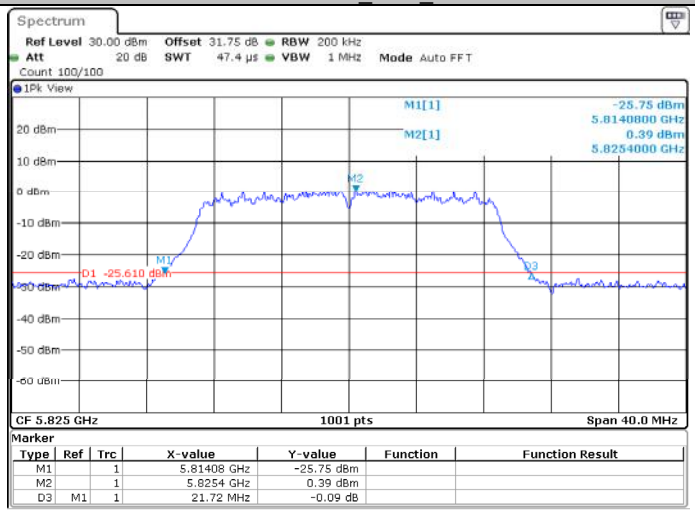

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:27:58

11AC20MIMO_Ant1_5825



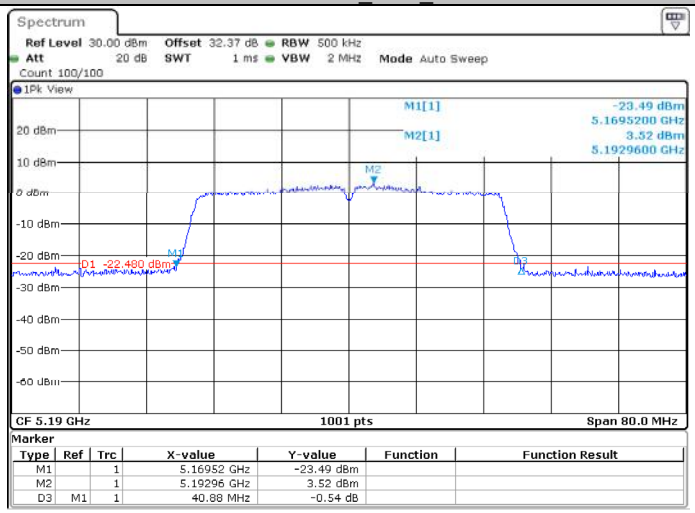

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:34:13

11AC20MIMO_Ant2_5825



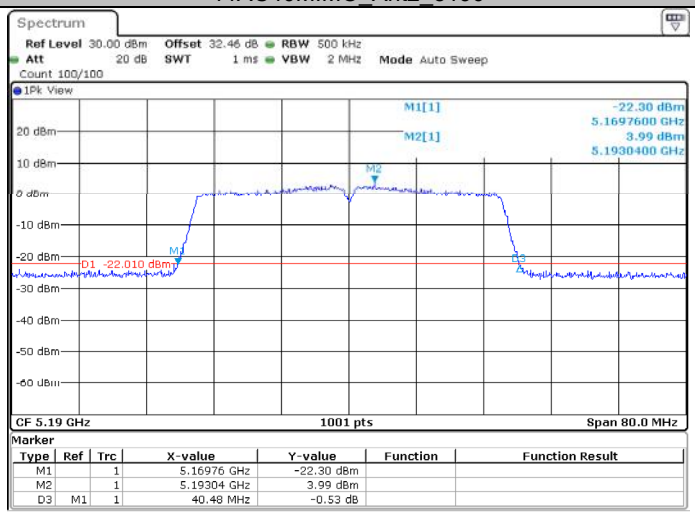

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:35:42

11AC40MIMO_Ant1_5190



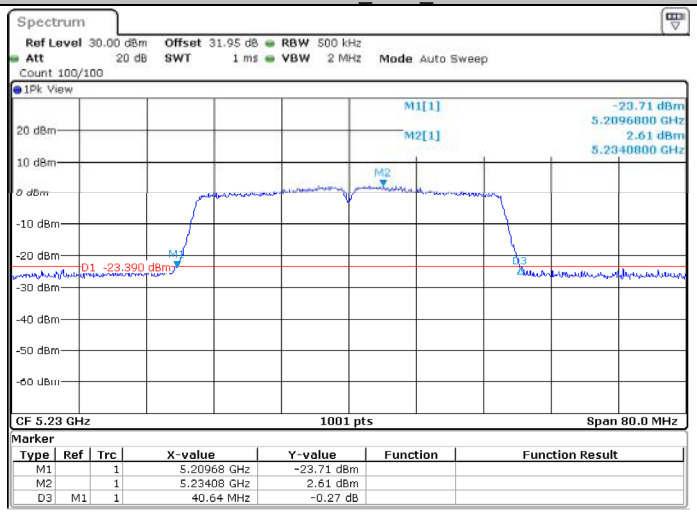

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:37:45

11AC40MIMO_Ant2_5190



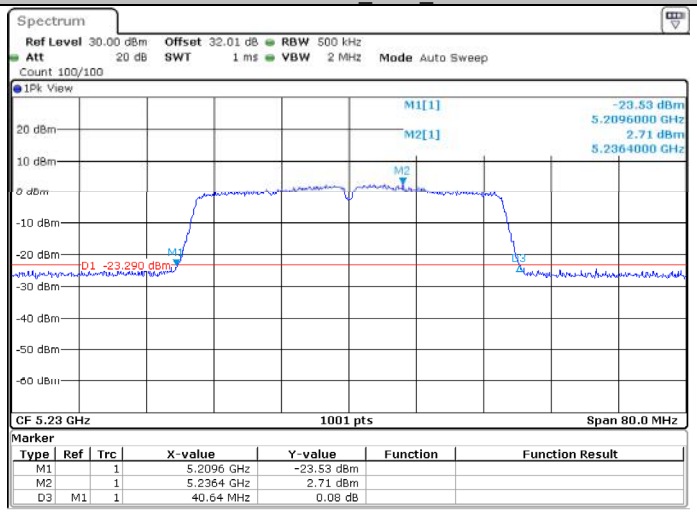

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:39:04

11AC40MIMO_Ant1_5230



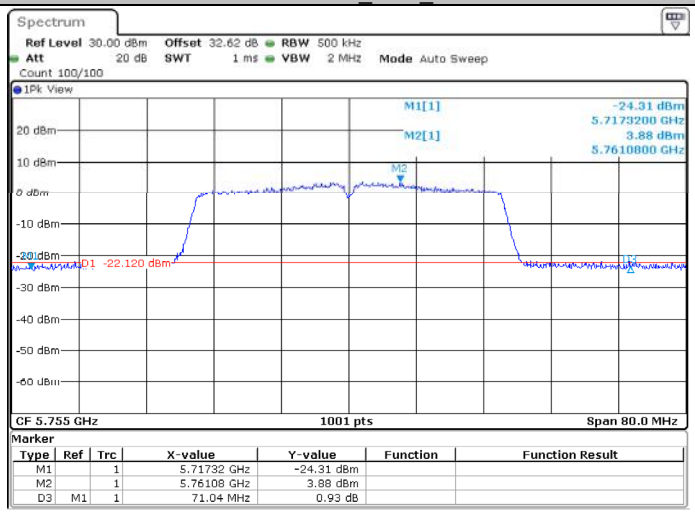

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:40:42

11AC40MIMO_Ant2_5230



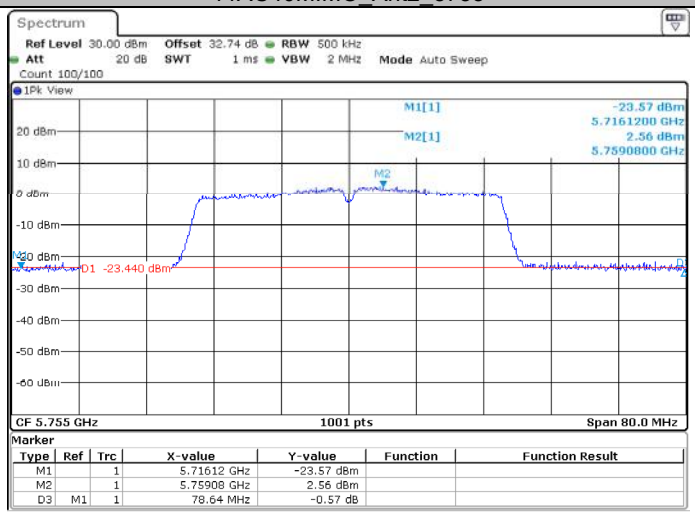

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:42:25

11AC40MIMO_Ant1_5755



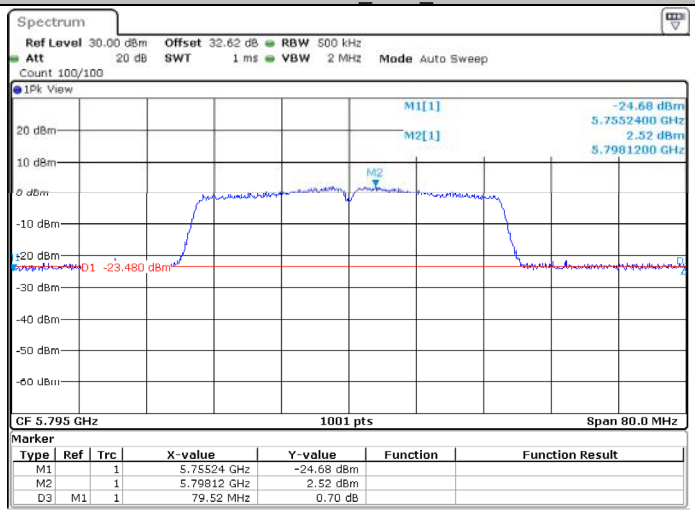

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:50:05

11AC40MIMO_Ant2_5755



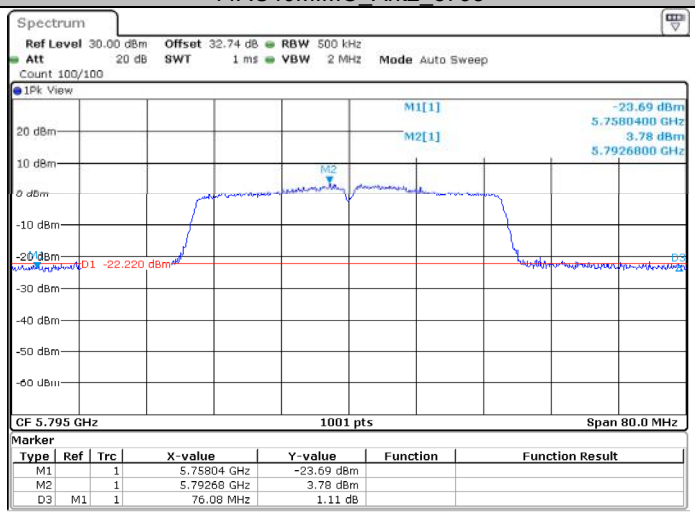

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:51:37

11AC40MIMO_Ant1_5795



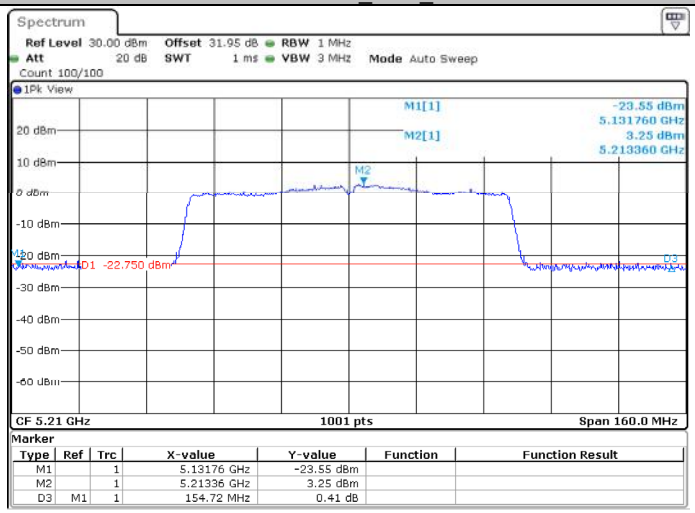

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:54:20

11AC40MIMO_Ant2_5795




ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:56:55

11AC80MIMO_Ant1_5210

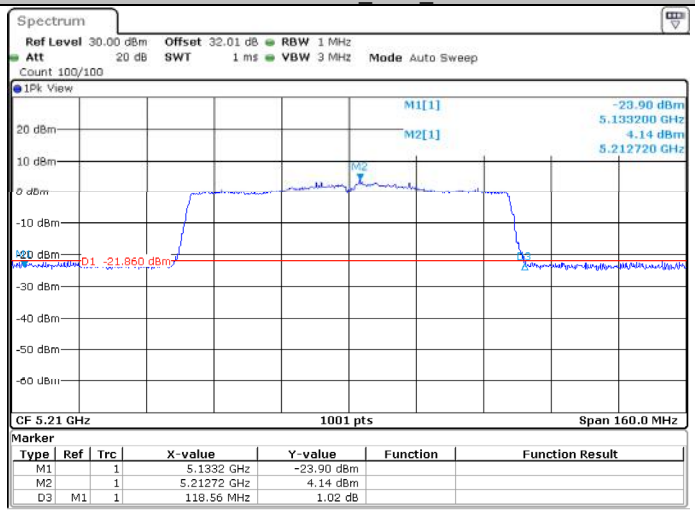



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.13176 GHz | -23.55 dBm | | |
| M2 | | 1 | 5.21336 GHz | 3.25 dBm | | |
| D3 | M1 | 1 | 154.72 MHz | 0.41 dB | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:59:44

11AC80MIMO_Ant2_5210

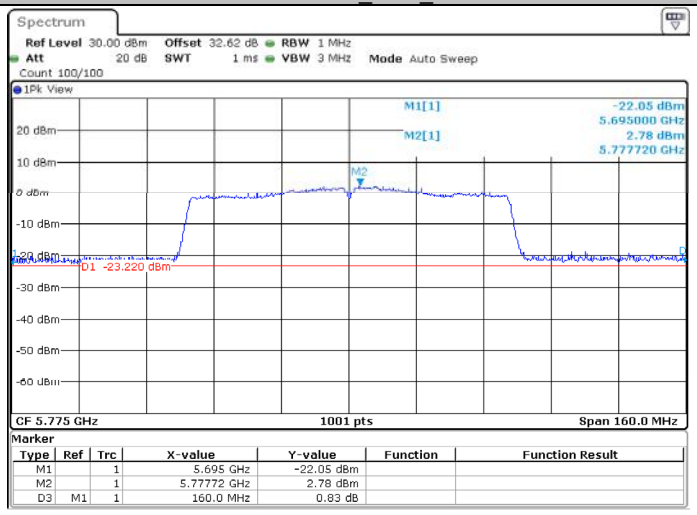



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.1332 GHz | -23.90 dBm | | |
| M2 | | 1 | 5.21272 GHz | 4.14 dBm | | |
| D3 | M1 | 1 | 118.56 MHz | 1.02 dB | | |

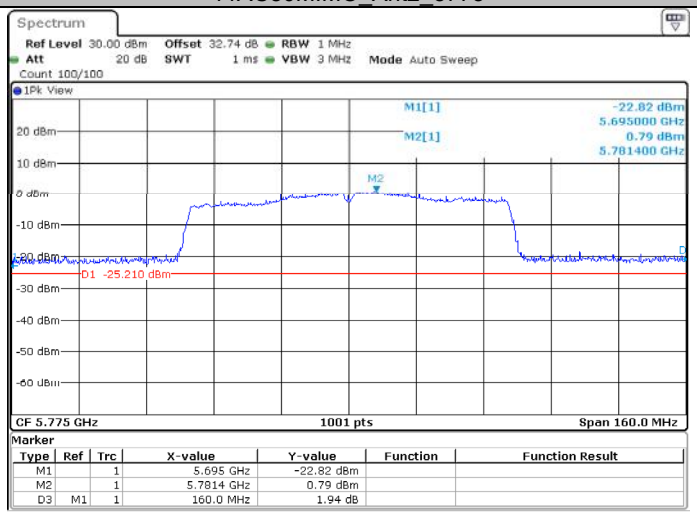
ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:00:59

11AC80MIMO_Ant1_5775



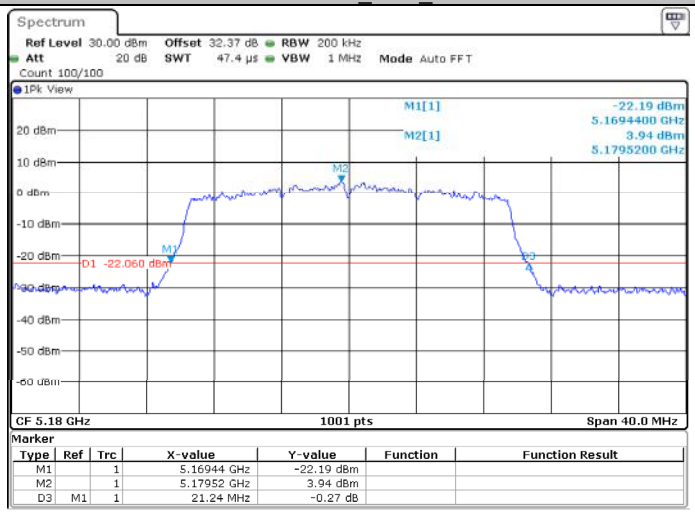

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:02:26

11AC80MIMO_Ant2_5775



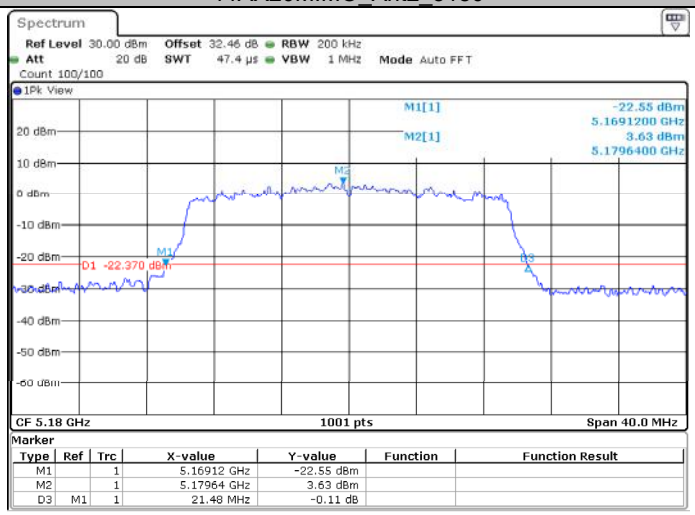

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:07:02

11AX20MIMO_Ant1_5180



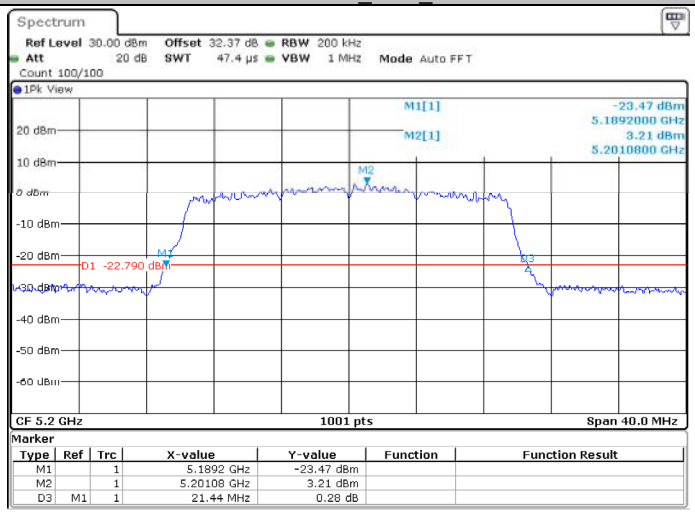

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:09:32

11AX20MIMO_Ant2_5180



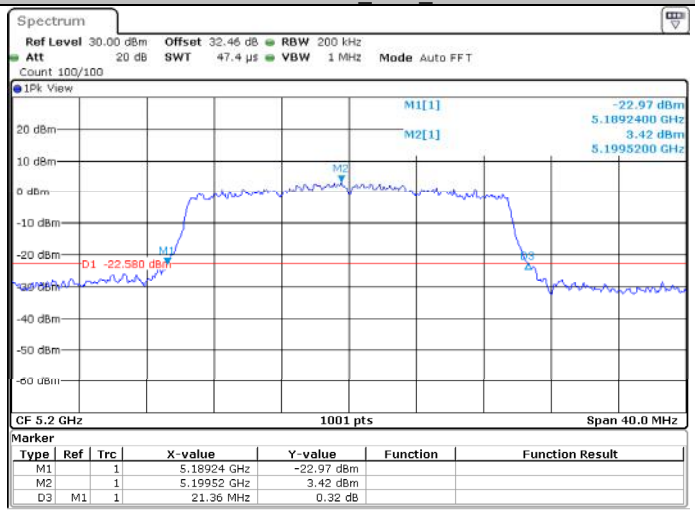

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:11:40

11AX20MIMO_Ant1_5200



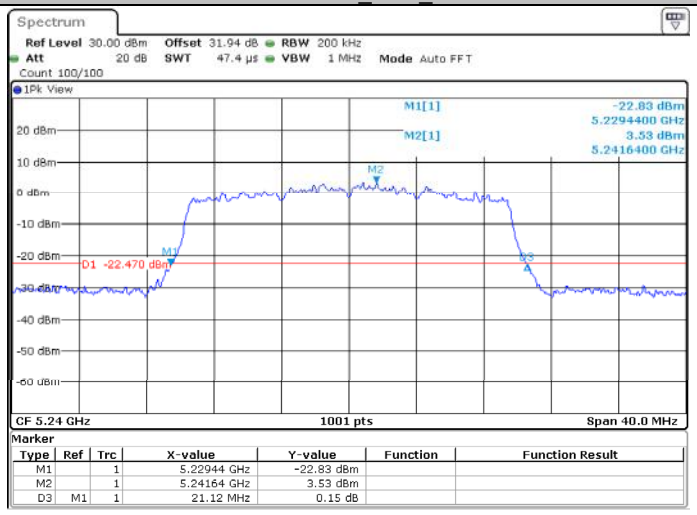

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:13:35

11AX20MIMO_Ant2_5200



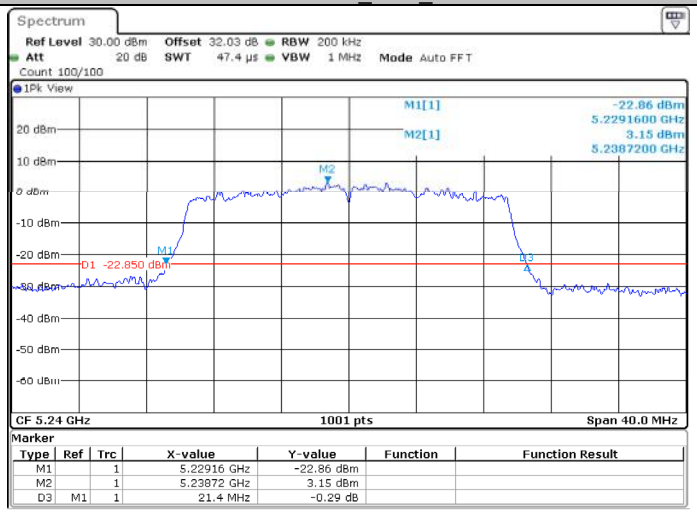

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:15:02

11AX20MIMO_Ant1_5240



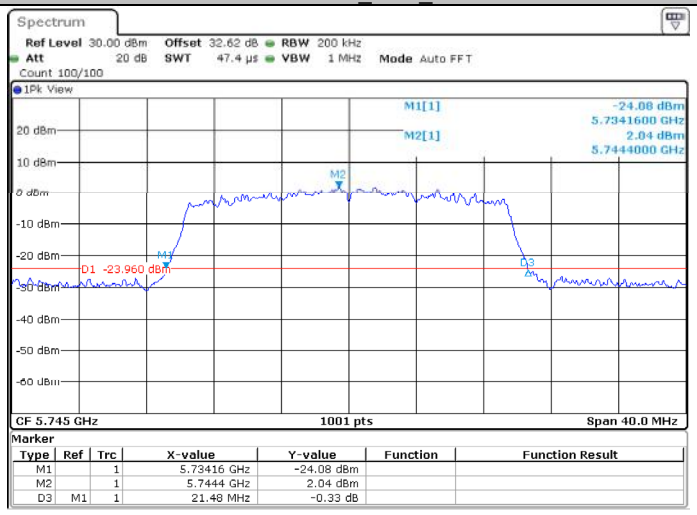

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:25:55

11AX20MIMO_Ant2_5240



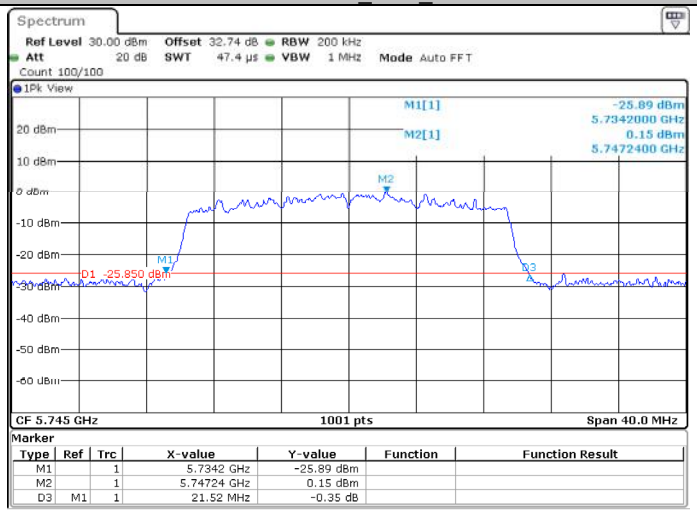

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:27:19

11AX20MIMO_Ant1_5745



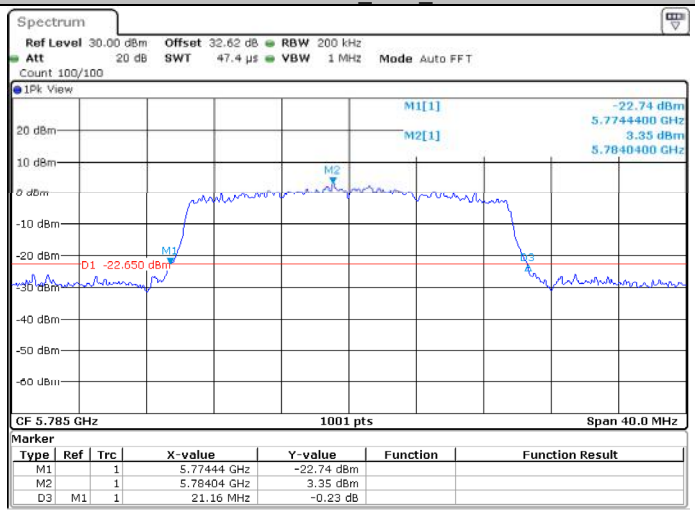

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:28:56

11AX20MIMO_Ant2_5745

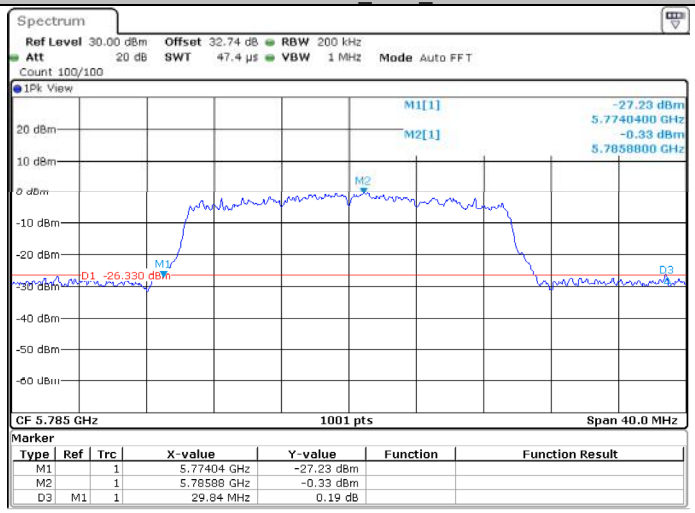



ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:30:22

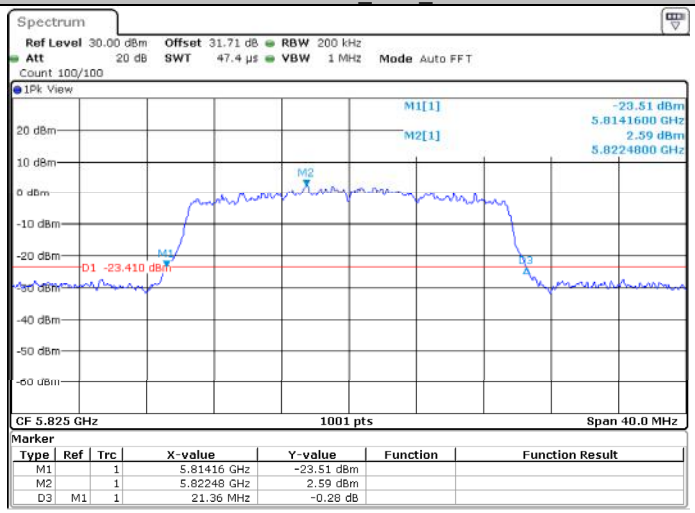
11AX20MIMO_Ant1_5785



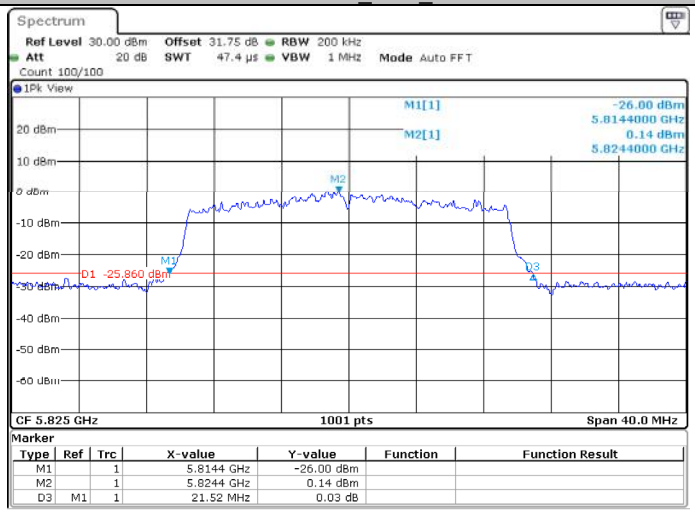

11AX20MIMO_Ant2_5785



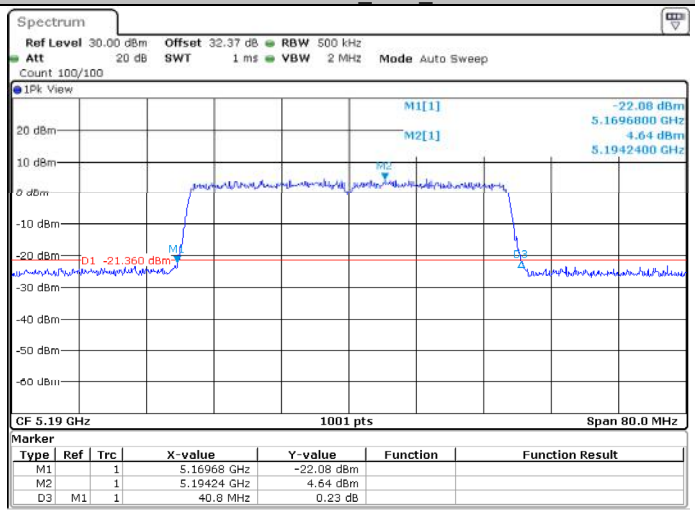
11AX20MIMO_Ant1_5825




11AX20MIMO_Ant2_5825

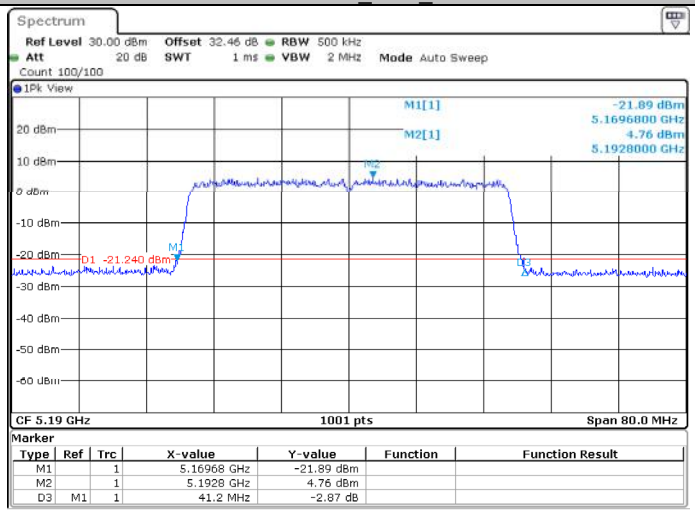


11AX40MIMO_Ant1_5190




ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:42:11

11AX40MIMO_Ant2_5190




ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:43:41

| 11AX40MIMO_Ant1_5230 |
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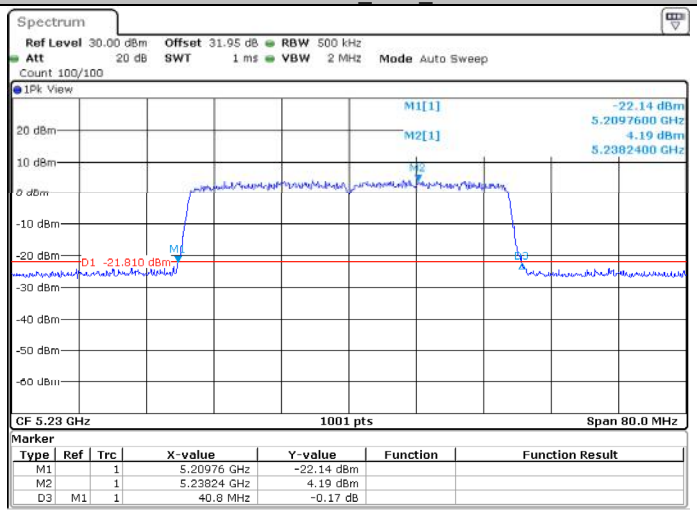
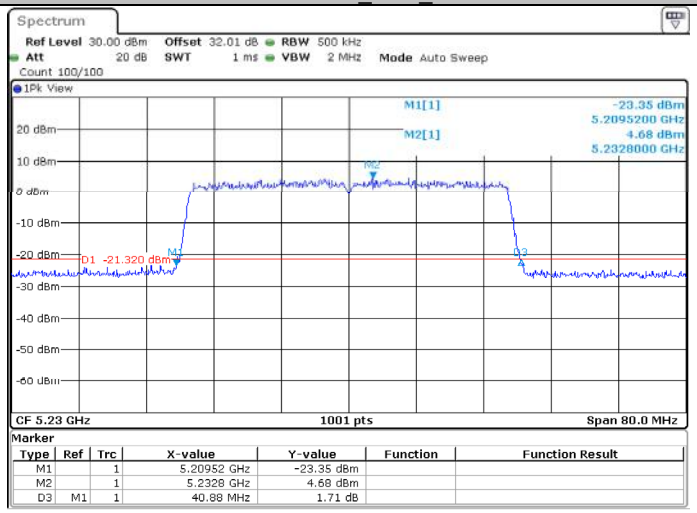



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.20976 GHz | -22.14 dBm | | |
| M2 | | 1 | 5.23824 GHz | 4.19 dBm | | |
| D3 | M1 | 1 | 40.8 MHz | -0.17 dB | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:45:14

| 11AX40MIMO_Ant2_5230 |
|---|

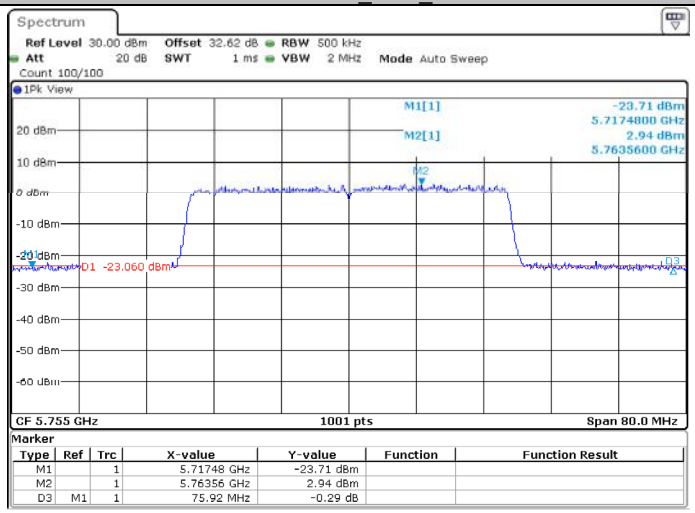



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.20952 GHz | -23.35 dBm | | |
| M2 | | 1 | 5.2328 GHz | 4.68 dBm | | |
| D3 | M1 | 1 | 40.88 MHz | 1.71 dB | | |

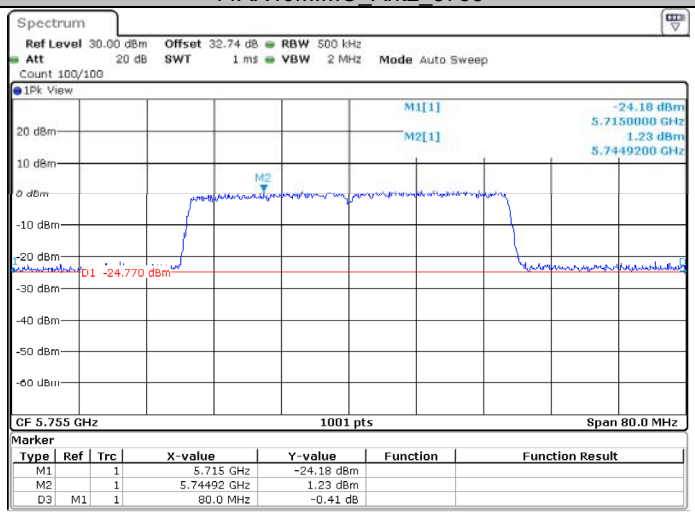
ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:46:36

| 11AX40MIMO_Ant1_5755 |
|---|



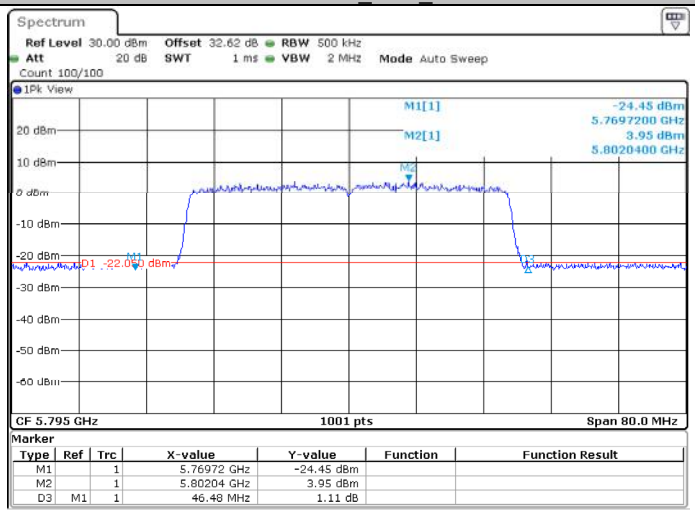

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:48:12

| 11AX40MIMO_Ant2_5755 |
|---|



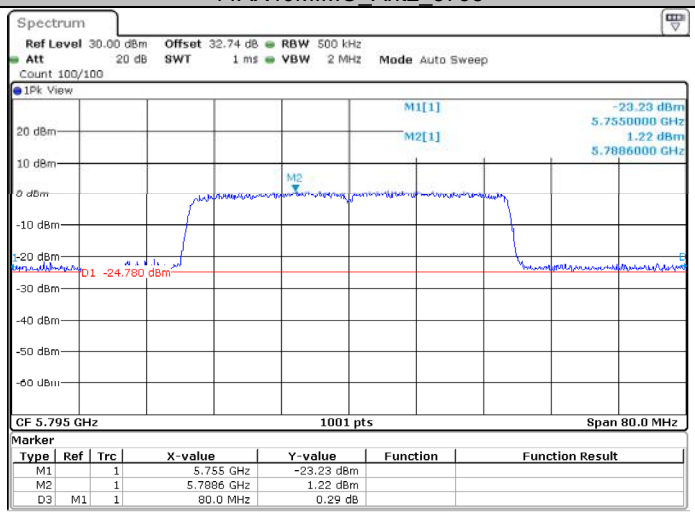

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:49:46

11AX40MIMO_Ant1_5795



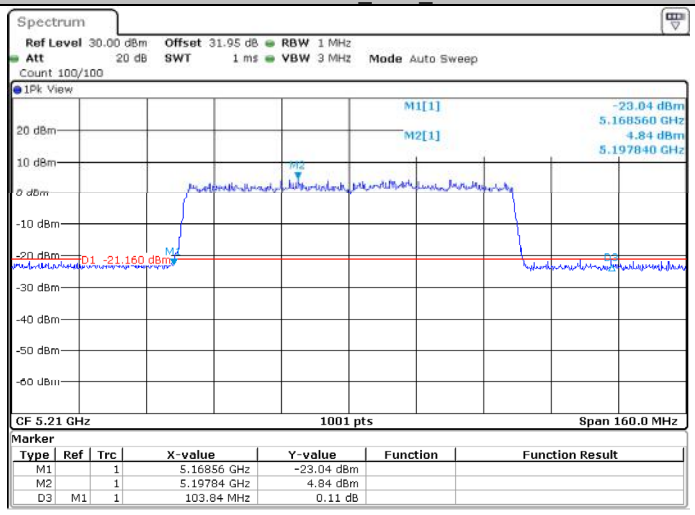

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:52:33

11AX40MIMO_Ant2_5795

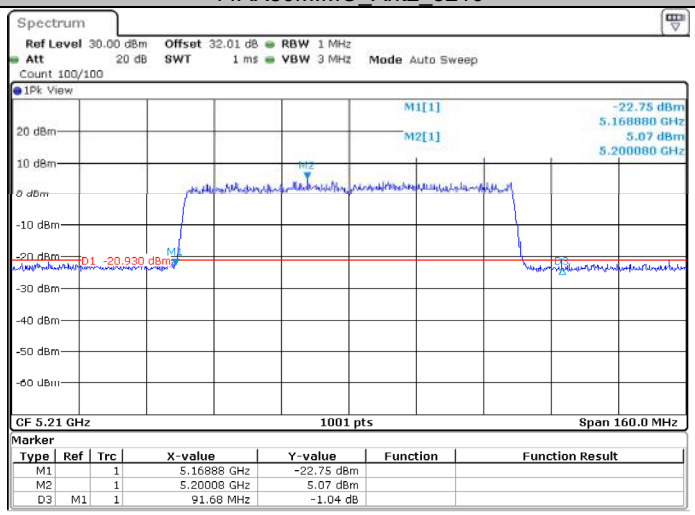



ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:54:44

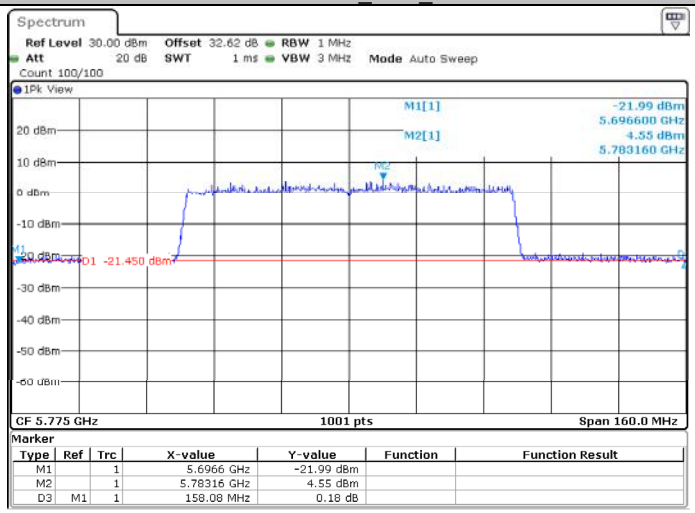
11AX80MIMO_Ant1_5210




11AX80MIMO_Ant2_5210

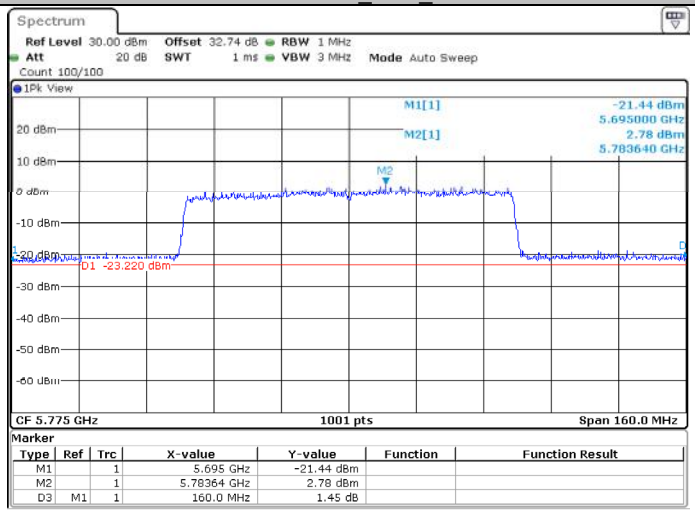


| 11AX80MIMO_Ant1_5775 |
|---|




ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:59:53

| 11AX80MIMO_Ant2_5775 |
|---|




ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 07:02:57

## Appendix A2: Occupied channel bandwidth

### Test Result

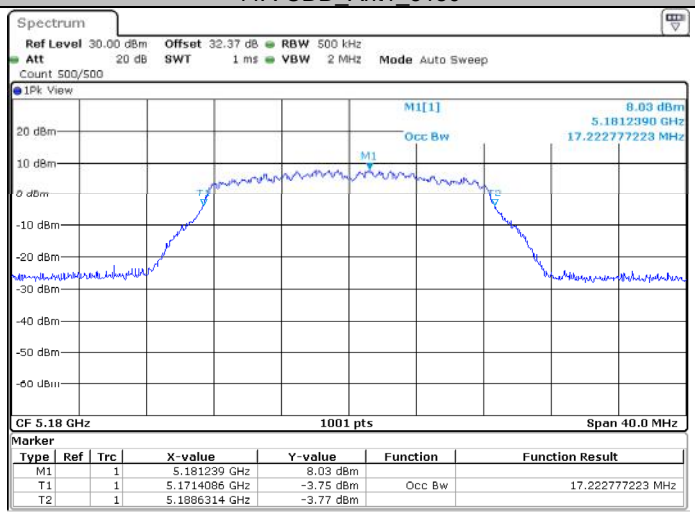
| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A-CDD | Ant1 | 5180 | 17.223 | 5171.4086 | 5188.6314 | --- | --- |
| | Ant2 | 5180 | 18.062 | 5170.8492 | 5188.9111 | --- | --- |
| | Ant1 | 5200 | 17.303 | 5191.3686 | 5208.6713 | --- | --- |
| | Ant2 | 5200 | 18.062 | 5190.8891 | 5208.9510 | --- | --- |
| | Ant1 | 5240 | 17.263 | 5231.4086 | 5248.6713 | --- | --- |
| | Ant2 | 5240 | 18.102 | 5230.8891 | 5248.9910 | --- | --- |
| | Ant1 | 5745 | 17.502 | 5736.2887 | 5753.7912 | --- | --- |
| | Ant2 | 5745 | 18.102 | 5735.9690 | 5754.0709 | --- | --- |
| | Ant1 | 5785 | 17.463 | 5776.2887 | 5793.7512 | --- | --- |
| | Ant2 | 5785 | 18.022 | 5775.9690 | 5793.9910 | --- | --- |
| | Ant1 | 5825 | 17.383 | 5816.3287 | 5833.7113 | --- | --- |
| | Ant2 | 5825 | 17.982 | 5815.9690 | 5833.9510 | --- | --- |
| 11AC20MIMO | Ant1 | 5180 | 18.701 | 5170.6494 | 5189.3506 | --- | --- |
| | Ant2 | 5180 | 18.781 | 5170.5295 | 5189.3107 | --- | --- |
| | Ant1 | 5200 | 18.781 | 5190.5694 | 5209.3506 | --- | --- |
| | Ant2 | 5200 | 18.821 | 5190.5295 | 5209.3506 | --- | --- |
| | Ant1 | 5240 | 18.661 | 5230.6494 | 5249.3107 | --- | --- |
| | Ant2 | 5240 | 18.861 | 5230.4895 | 5249.3506 | --- | --- |
| | Ant1 | 5745 | 18.901 | 5735.5694 | 5754.4705 | --- | --- |
| | Ant2 | 5745 | 18.901 | 5735.5295 | 5754.4306 | --- | --- |
| | Ant1 | 5785 | 18.781 | 5775.5694 | 5794.3506 | --- | --- |
| | Ant2 | 5785 | 18.821 | 5775.5694 | 5794.3906 | --- | --- |
| | Ant1 | 5825 | 18.781 | 5815.5694 | 5834.3506 | --- | --- |
| | Ant2 | 5825 | 18.781 | 5815.6094 | 5834.3906 | --- | --- |
| 11AC40MIMO | Ant1 | 5190 | 36.923 | 5171.5385 | 5208.4615 | --- | --- |
| | Ant2 | 5190 | 36.843 | 5171.5385 | 5208.3816 | --- | --- |
| | Ant1 | 5230 | 36.843 | 5211.6184 | 5248.4615 | --- | --- |
| | Ant2 | 5230 | 36.843 | 5211.6184 | 5248.4615 | --- | --- |
| | Ant1 | 5755 | 37.243 | 5736.4585 | 5773.7013 | --- | --- |
| | Ant2 | 5755 | 37.802 | 5736.2188 | 5774.0210 | --- | --- |
| | Ant1 | 5795 | 37.083 | 5776.4585 | 5813.5415 | --- | --- |
| | Ant2 | 5795 | 37.003 | 5776.5385 | 5813.5415 | --- | --- |
| 11AC80MIMO | Ant1 | 5210 | 76.563 | 5171.7982 | 5248.3616 | --- | --- |
| | Ant2 | 5210 | 76.404 | 5171.9580 | 5248.3616 | --- | --- |
| | Ant1 | 5775 | 77.522 | 5736.4785 | 5814.0010 | --- | --- |
| | Ant2 | 5775 | 79.76 | 5735.8392 | 5815.5994 | --- | --- |
| 11AX20MIMO | Ant1 | 5180 | 19.101 | 5170.4096 | 5189.5105 | --- | --- |
| | Ant2 | 5180 | 19.181 | 5170.3696 | 5189.5504 | --- | --- |
| | Ant1 | 5200 | 19.181 | 5190.4096 | 5209.5904 | --- | --- |
| | Ant2 | 5200 | 19.181 | 5190.3696 | 5209.5504 | --- | --- |
| | Ant1 | 5240 | 19.141 | 5230.4096 | 5249.5504 | --- | --- |
| | Ant2 | 5240 | 19.141 | 5230.4096 | 5249.5504 | --- | --- |
| | Ant1 | 5745 | 19.181 | 5735.4496 | 5754.6304 | --- | --- |
| | Ant2 | 5745 | 19.221 | 5735.4096 | 5754.6304 | --- | --- |
| | Ant1 | 5785 | 19.101 | 5775.4496 | 5794.5504 | --- | --- |
| | Ant2 | 5785 | 19.221 | 5775.3696 | 5794.5904 | --- | --- |
| | Ant1 | 5825 | 19.141 | 5815.4496 | 5834.5904 | --- | --- |
| | Ant2 | 5825 | 19.221 | 5815.3696 | 5834.5904 | --- | --- |

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11AX40MIMO | Ant1 | 5190 | 37.962 | 5171.0589 | 5209.0210 | --- | --- |
| | Ant2 | 5190 | 37.962 | 5171.0589 | 5209.0210 | --- | --- |
| | Ant1 | 5230 | 37.882 | 5211.0589 | 5248.9411 | --- | --- |
| | Ant2 | 5230 | 37.962 | 5211.0589 | 5249.0210 | --- | --- |
| | Ant1 | 5755 | 38.122 | 5735.9790 | 5774.1009 | --- | --- |
| | Ant2 | 5755 | 38.362 | 5735.8991 | 5774.2607 | --- | --- |
| | Ant1 | 5795 | 38.042 | 5775.9790 | 5814.0210 | --- | --- |
| | Ant2 | 5795 | 38.282 | 5775.8991 | 5814.1808 | --- | --- |
| 11AX80MIMO | Ant1 | 5210 | 78.162 | 5170.9990 | 5249.1608 | --- | --- |
| | Ant2 | 5210 | 78.002 | 5171.1588 | 5249.1608 | --- | --- |
| | Ant1 | 5775 | 78.641 | 5735.8392 | 5814.4805 | --- | --- |
| | Ant2 | 5775 | 80.24 | 5735.3596 | 5815.5994 | --- | --- |

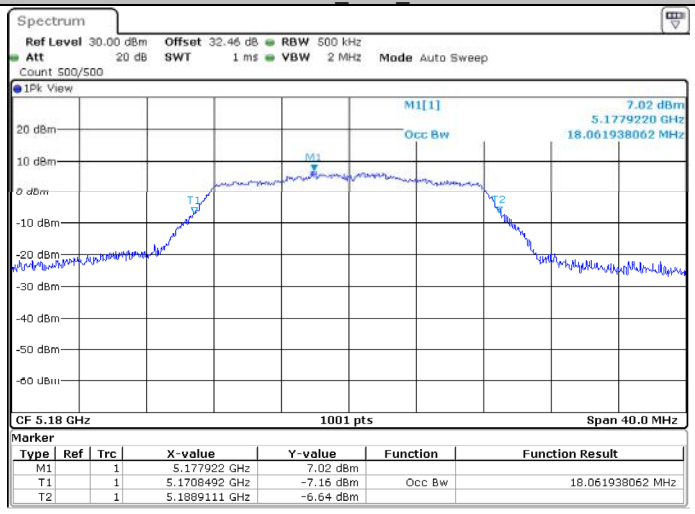
Note: the device not operate with any part of OBW within 5250-5350MHz and 5470-5725MHz range.

## Test Graphs

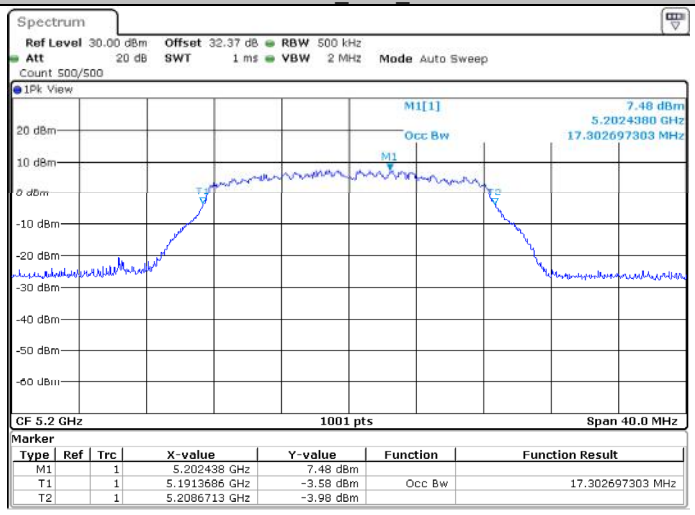
11A-CDD_Ant1_5180




11A-CDD_Ant2_5180



11A-CDD_Ant1_5200

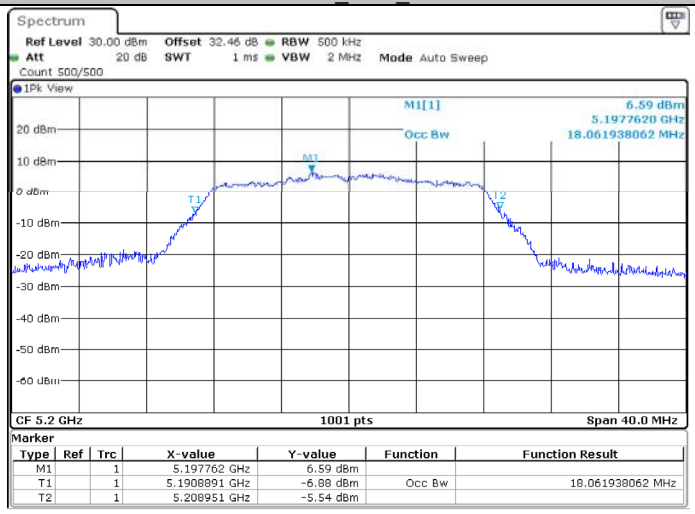



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.202438 GHz | 7.48 dBm | | |
| T1 | | 1 | 5.1913686 GHz | -3.58 dBm | Occ Bw | 17.302697303 MHz |
| T2 | | 1 | 5.2086713 GHz | -3.98 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:55:43

11A-CDD_Ant2_5200

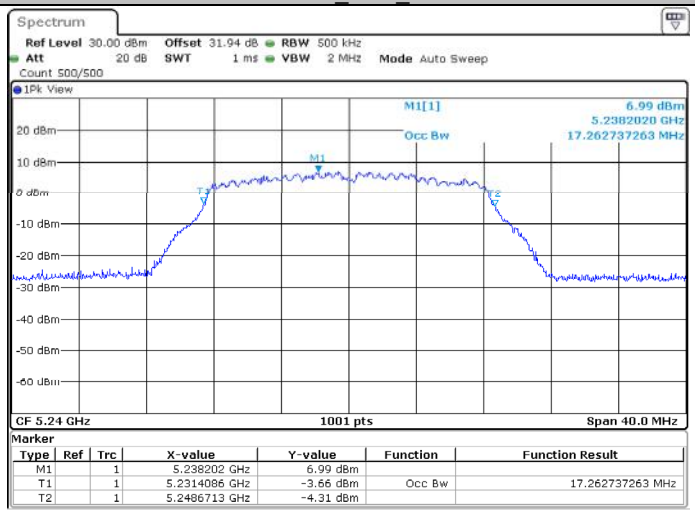



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.197762 GHz | 6.59 dBm | | |
| T1 | | 1 | 5.1908891 GHz | -6.88 dBm | Occ Bw | 18.061938062 MHz |
| T2 | | 1 | 5.208951 GHz | -5.54 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:56:34

11A-CDD_Ant1_5240

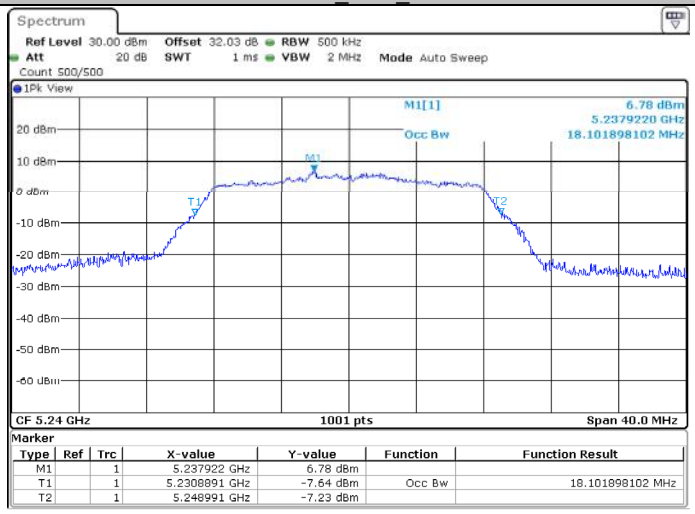



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.238202 GHz | 6.99 dBm | | |
| T1 | | 1 | 5.2314086 GHz | -3.66 dBm | Occ Bw | 17.262737263 MHz |
| T2 | | 1 | 5.2486713 GHz | -4.31 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:57:57

11A-CDD_Ant2_5240

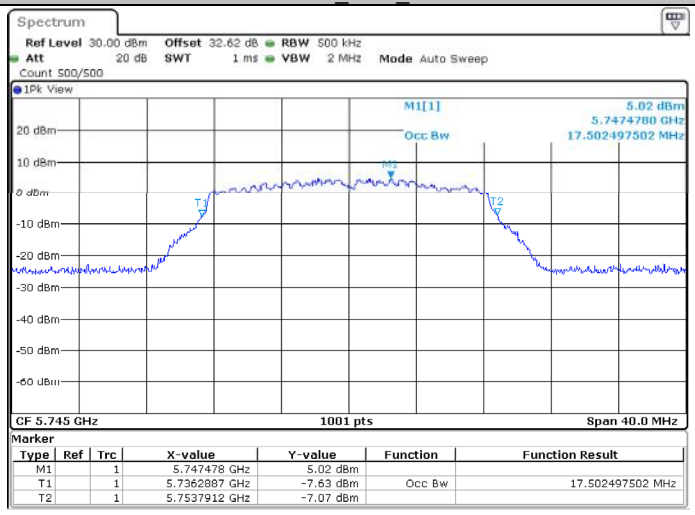



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.237922 GHz | 6.78 dBm | | |
| T1 | | 1 | 5.2308891 GHz | -7.64 dBm | Occ Bw | 18.101898102 MHz |
| T2 | | 1 | 5.248991 GHz | -7.23 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:58:48

11A-CDD_Ant1_5745

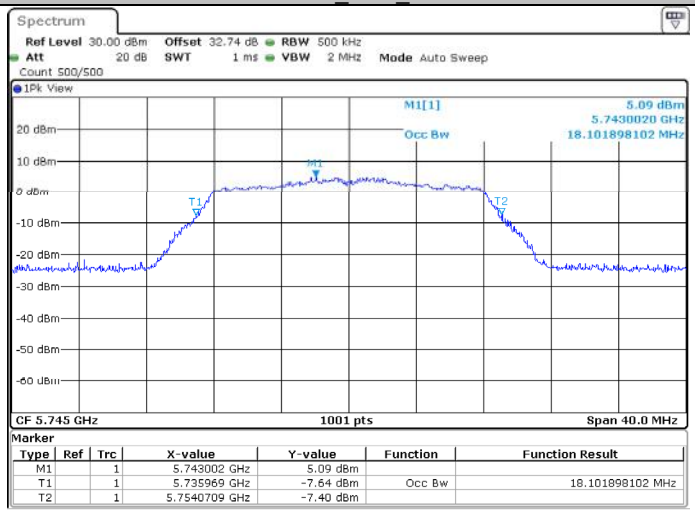



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.7474780 GHz | 5.02 dBm | | |
| T1 | | 1 | 5.7362887 GHz | -7.63 dBm | Occ Bw | 17.502497502 MHz |
| T2 | | 1 | 5.7537912 GHz | -7.07 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:45:03

11A-CDD_Ant2_5745

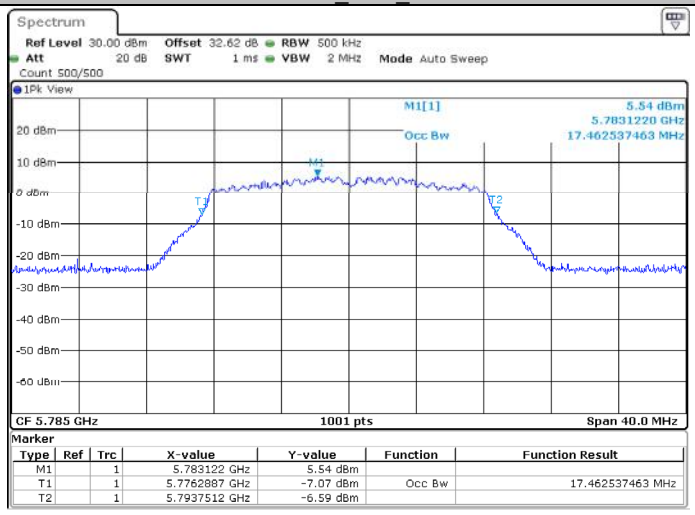



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.743002 GHz | 5.09 dBm | | |
| T1 | | 1 | 5.735969 GHz | -7.64 dBm | Occ Bw | 18.101898102 MHz |
| T2 | | 1 | 5.7540709 GHz | -7.40 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:47:09

11A-CDD_Ant1_5785

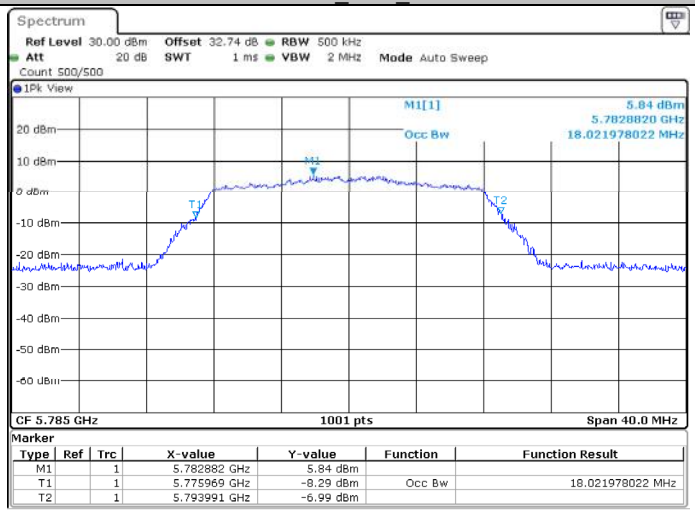



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.783122 GHz | 5.54 dBm | | |
| T1 | | 1 | 5.7762887 GHz | -7.07 dBm | Occ Bw | 17.462537463 MHz |
| T2 | | 1 | 5.7937512 GHz | -6.59 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:48:31

11A-CDD_Ant2_5785

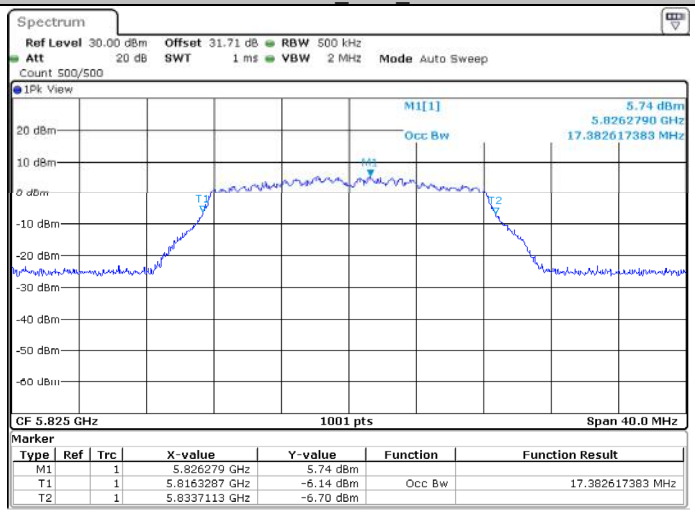



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.782882 GHz | 5.84 dBm | | |
| T1 | | 1 | 5.775969 GHz | -8.29 dBm | Occ Bw | 18.021978022 MHz |
| T2 | | 1 | 5.793991 GHz | -6.99 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:49:28

11A-CDD_Ant1_5825

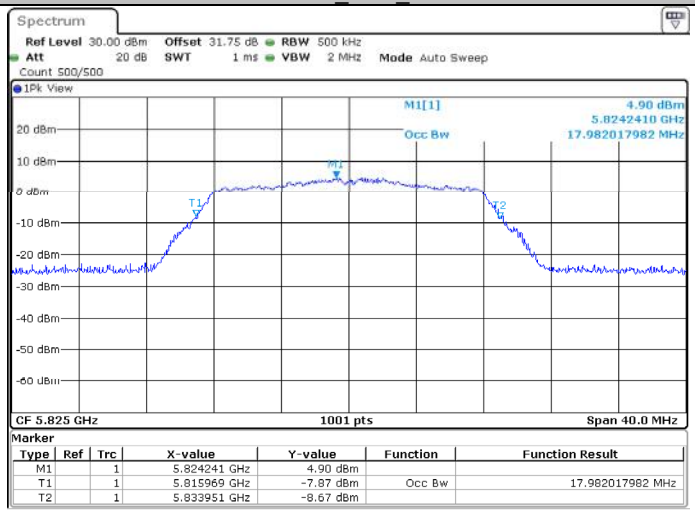



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.826279 GHz | 5.74 dBm | | |
| T1 | | 1 | 5.8163287 GHz | -6.14 dBm | Occ Bw | 17.382617383 MHz |
| T2 | | 1 | 5.8337113 GHz | -6.70 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:51:08

11A-CDD_Ant2_5825

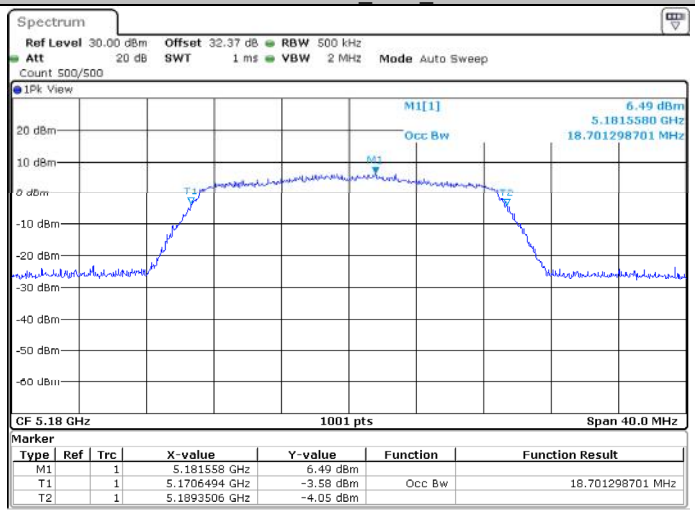



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.824241 GHz | 4.90 dBm | | |
| T1 | | 1 | 5.815969 GHz | -7.87 dBm | Occ Bw | 17.982017982 MHz |
| T2 | | 1 | 5.833951 GHz | -8.67 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 04:52:05

11AC20MIMO_Ant1_5180

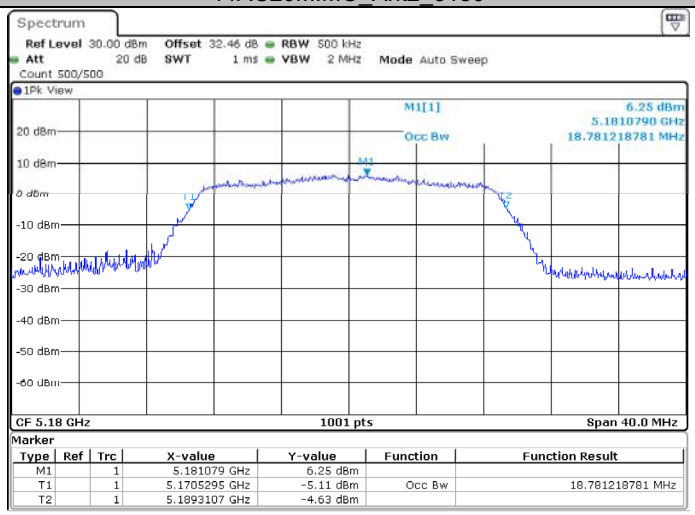



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.181558 GHz | 6.49 dBm | | |
| T1 | | 1 | 5.1706494 GHz | -3.58 dBm | Occ Bw | 18.701298701 MHz |
| T2 | | 1 | 5.1893506 GHz | -4.05 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:12:06

11AC20MIMO_Ant2_5180

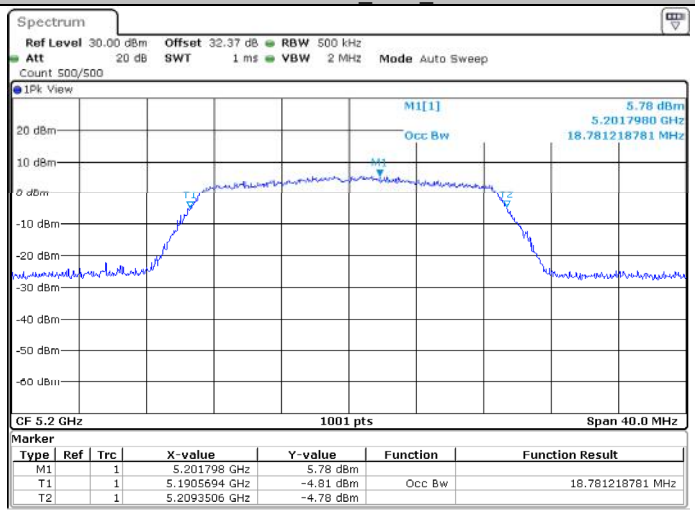



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.181079 GHz | 6.25 dBm | | |
| T1 | | 1 | 5.1705295 GHz | -5.11 dBm | Occ Bw | 18.781218781 MHz |
| T2 | | 1 | 5.1893107 GHz | -4.63 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:13:22

11AC20MIMO_Ant1_5200

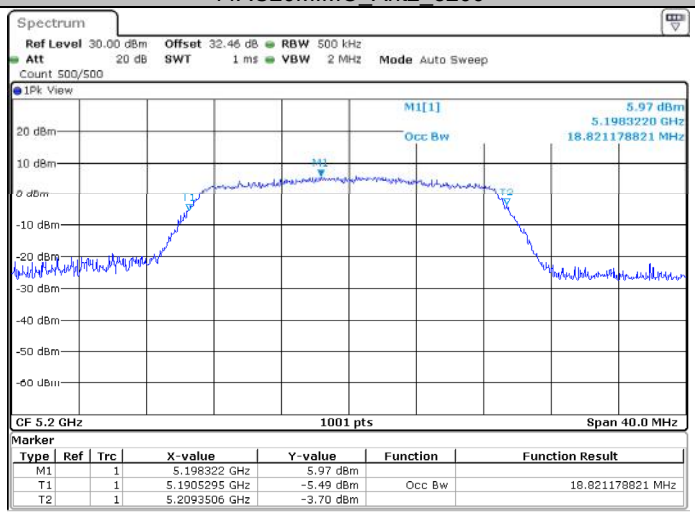



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.201798 GHz | 5.78 dBm | | |
| T1 | | 1 | 5.1905694 GHz | -4.81 dBm | Occ Bw | 18.781218781 MHz |
| T2 | | 1 | 5.2093506 GHz | -4.78 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:14:47

11AC20MIMO_Ant2_5200

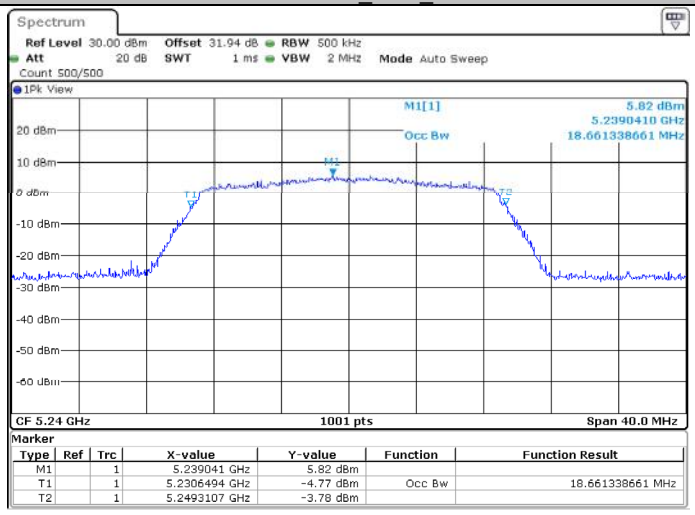



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.198322 GHz | 5.97 dBm | | |
| T1 | | 1 | 5.1905295 GHz | -5.49 dBm | Occ Bw | 18.821178821 MHz |
| T2 | | 1 | 5.2093506 GHz | -3.70 dBm | | |

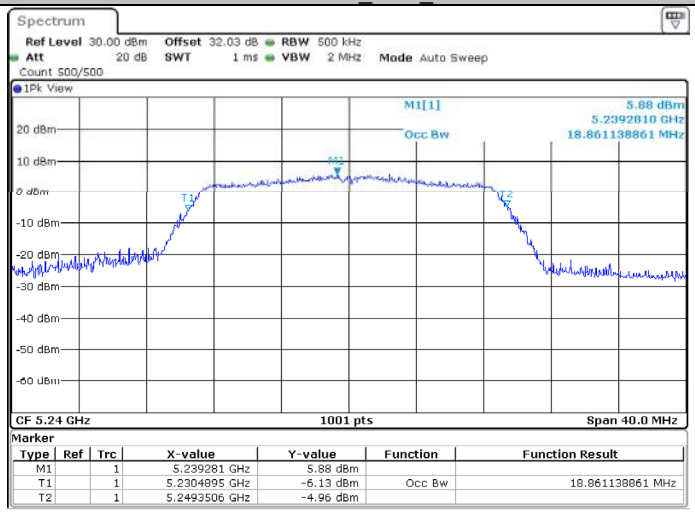
ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:16:17

11AC20MIMO_Ant1_5240



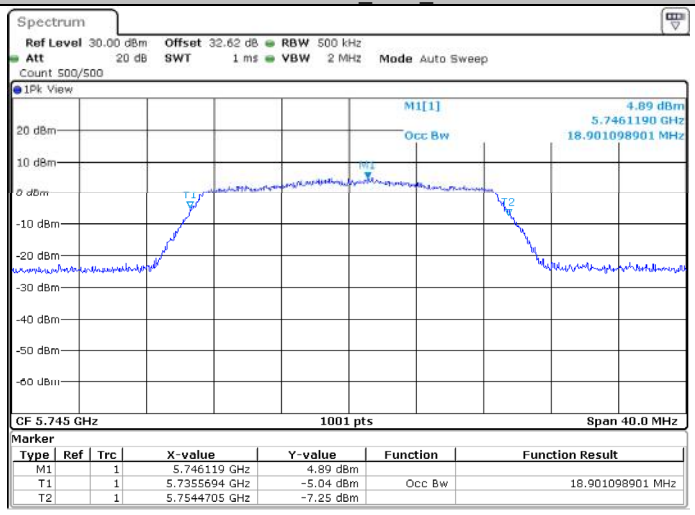

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:17:44

11AC20MIMO_Ant2_5240




ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:19:05

11AC20MIMO_Ant1_5745

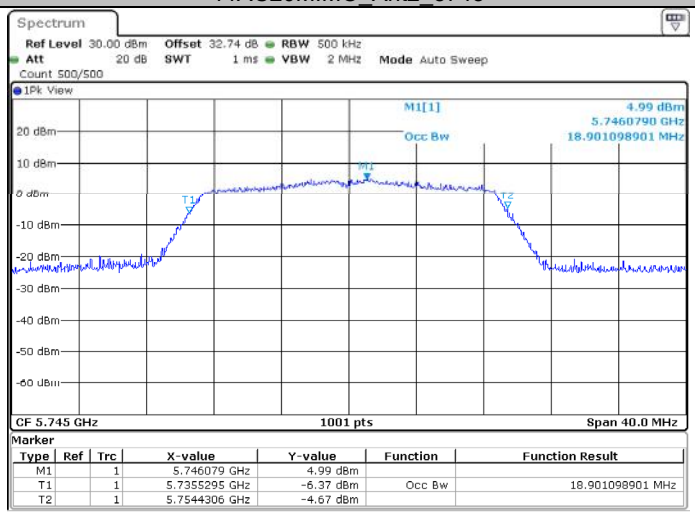



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.746119 GHz | 4.89 dBm | | |
| T1 | | 1 | 5.7355694 GHz | -5.04 dBm | Occ Bw | 18.901098901 MHz |
| T2 | | 1 | 5.7544705 GHz | -7.25 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:31:46

11AC20MIMO_Ant2_5745

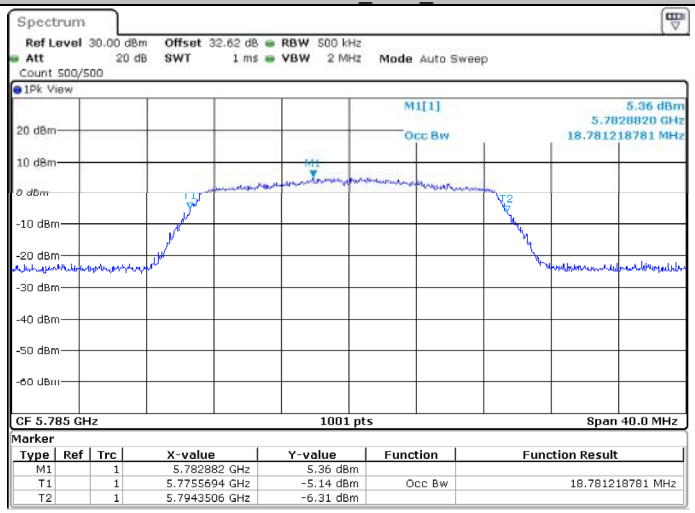



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.746079 GHz | 4.99 dBm | | |
| T1 | | 1 | 5.7355295 GHz | -6.37 dBm | Occ Bw | 18.901098901 MHz |
| T2 | | 1 | 5.7544306 GHz | -4.67 dBm | | |

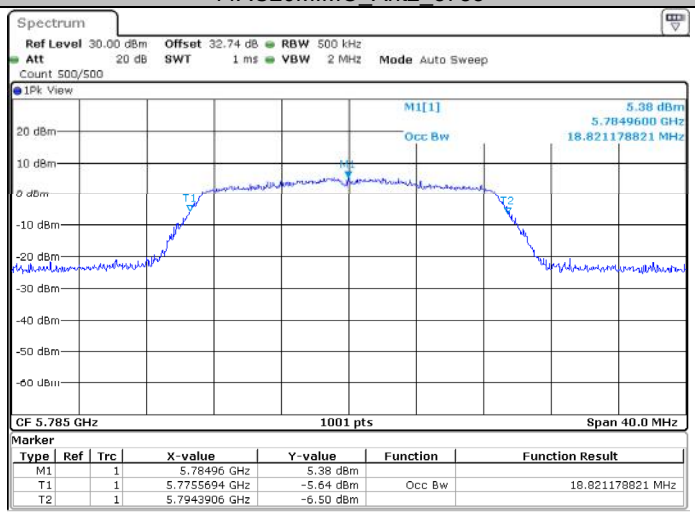
ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:33:08

11AC20MIMO_Ant1_5785



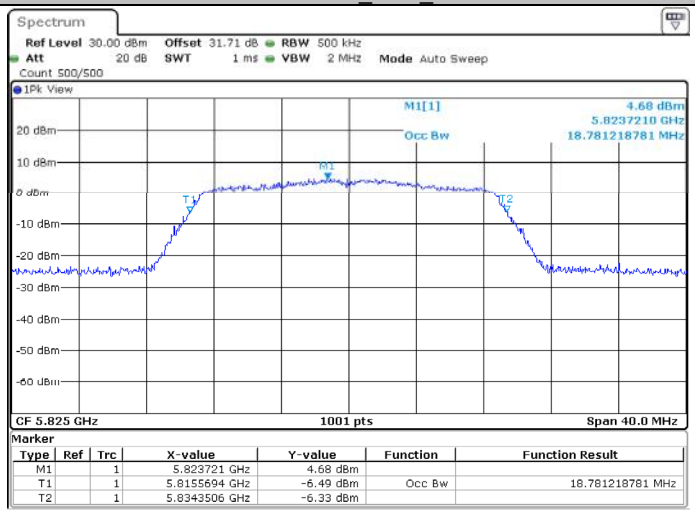

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:25:50

11AC20MIMO_Ant2_5785



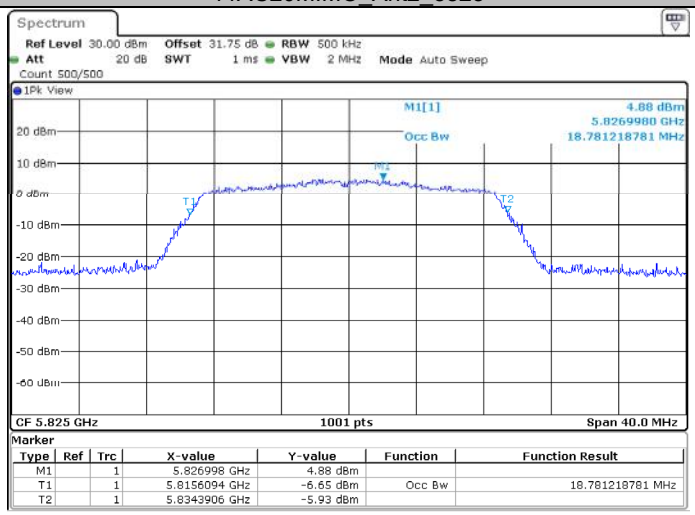

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:28:11

11AC20MIMO_Ant1_5825



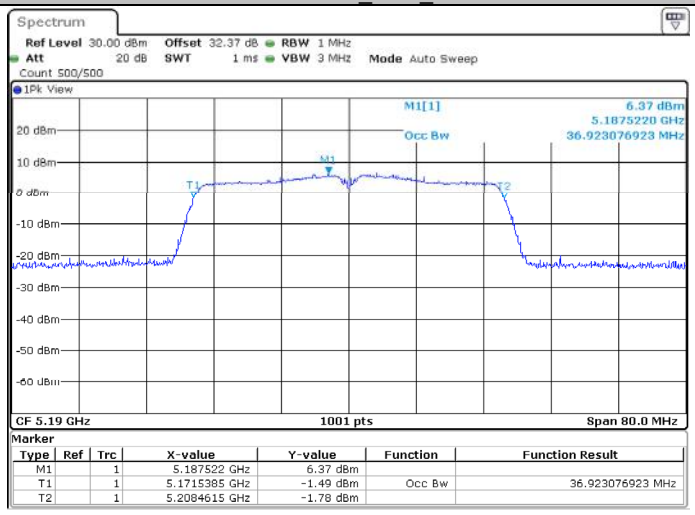

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:34:25

11AC20MIMO_Ant2_5825

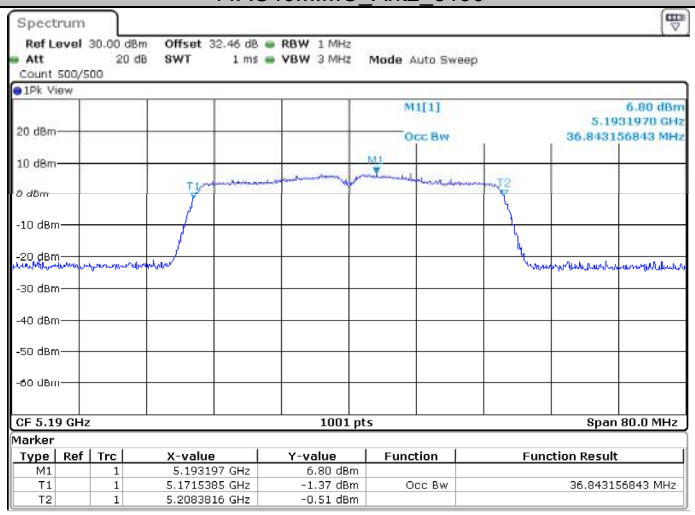



ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:35:55

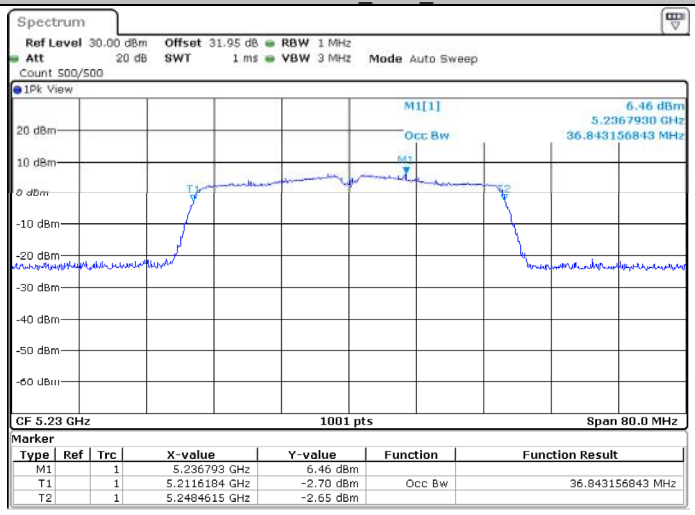
11AC40MIMO_Ant1_5190




11AC40MIMO_Ant2_5190

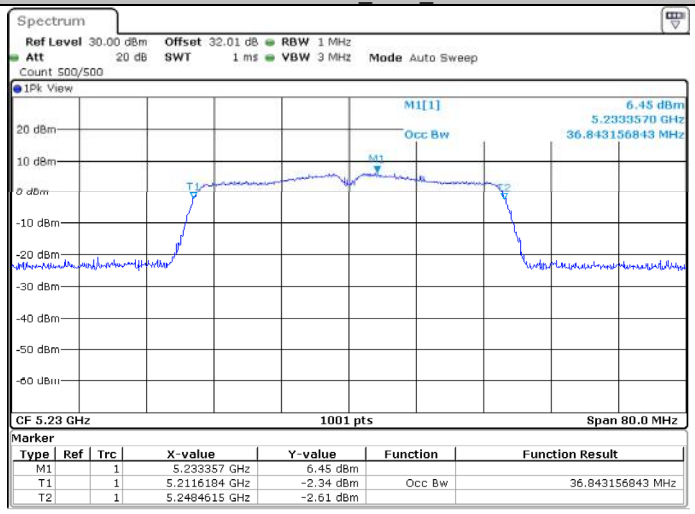


11AC40MIMO_Ant1_5230



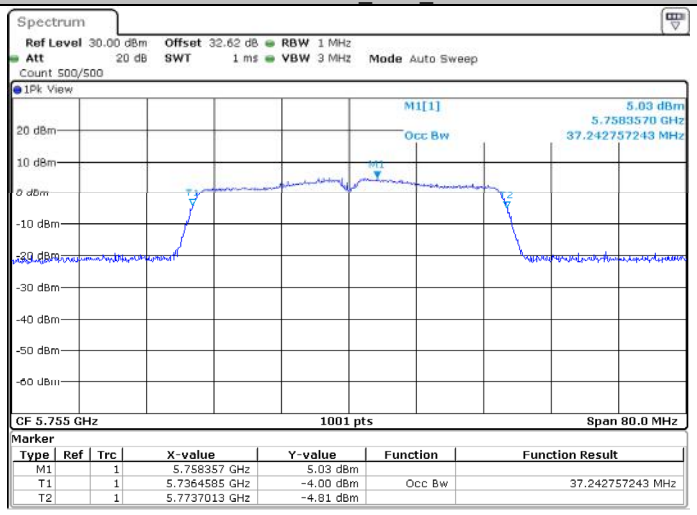

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:40:48

11AC40MIMO_Ant2_5230




ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:42:31

11AC40MIMO_Ant1_5755

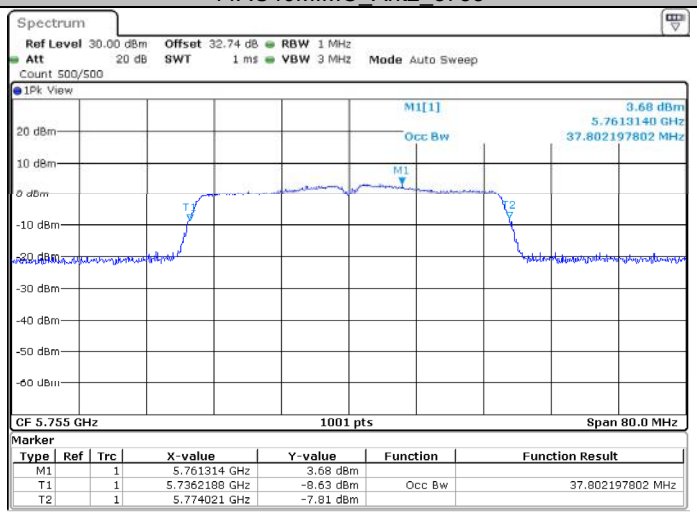



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.758357 GHz | 5.03 dBm | | |
| T1 | | 1 | 5.7364585 GHz | -4.00 dBm | Occ Bw | 37.242757243 MHz |
| T2 | | 1 | 5.7737013 GHz | -4.81 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:44:33

11AC40MIMO_Ant2_5755

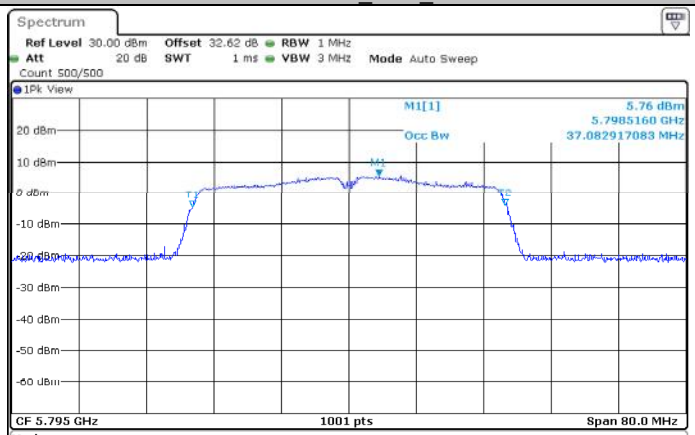



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.761314 GHz | 3.68 dBm | | |
| T1 | | 1 | 5.7362188 GHz | -8.63 dBm | Occ Bw | 37.802197802 MHz |
| T2 | | 1 | 5.774021 GHz | -7.81 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:52:14

11AC40MIMO_Ant1_5795

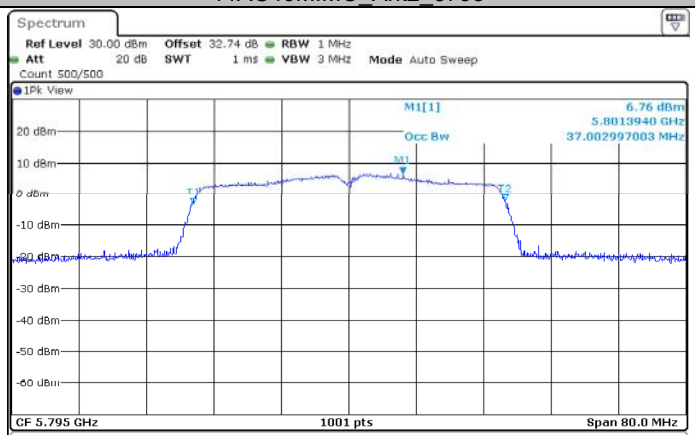



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.798516 GHz | 5.76 dBm | | |
| T1 | | 1 | 5.7764585 GHz | -4.56 dBm | Occ Bw | 37.082917083 MHz |
| T2 | | 1 | 5.8135415 GHz | -4.24 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:54:32

11AC40MIMO_Ant2_5795

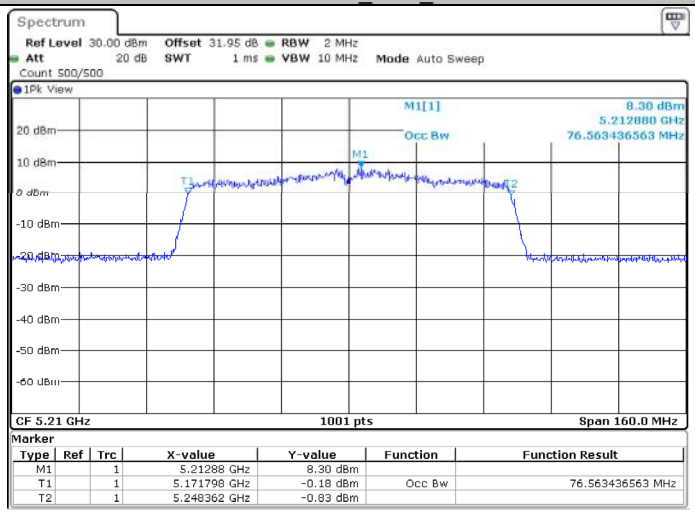



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.801394 GHz | 6.76 dBm | | |
| T1 | | 1 | 5.7765385 GHz | -3.31 dBm | Occ Bw | 37.002997003 MHz |
| T2 | | 1 | 5.8135415 GHz | -2.22 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:57:07

11AC80MIMO_Ant1_5210

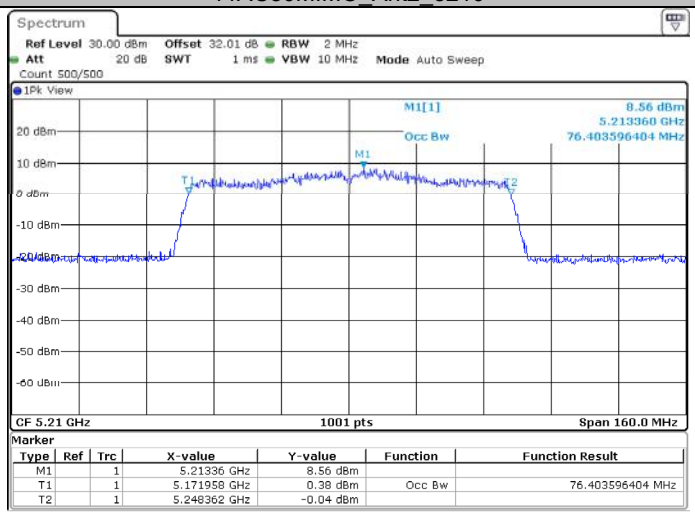



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.21288 GHz | 8.30 dBm | | |
| T1 | | 1 | 5.171798 GHz | -0.18 dBm | Occ Bw | 76.563436563 MHz |
| T2 | | 1 | 5.248362 GHz | -0.83 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 05:59:50

11AC80MIMO_Ant2_5210

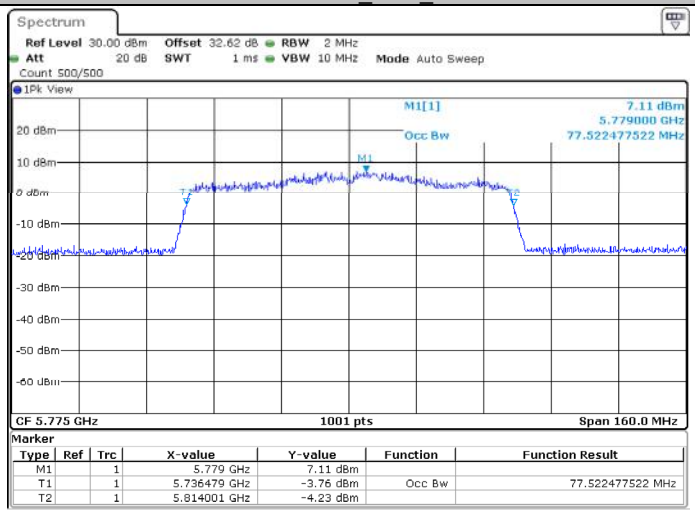



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.21336 GHz | 8.56 dBm | | |
| T1 | | 1 | 5.171958 GHz | 0.38 dBm | Occ Bw | 76.403596404 MHz |
| T2 | | 1 | 5.248362 GHz | -0.04 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:01:05

11AC80MIMO_Ant1_5775

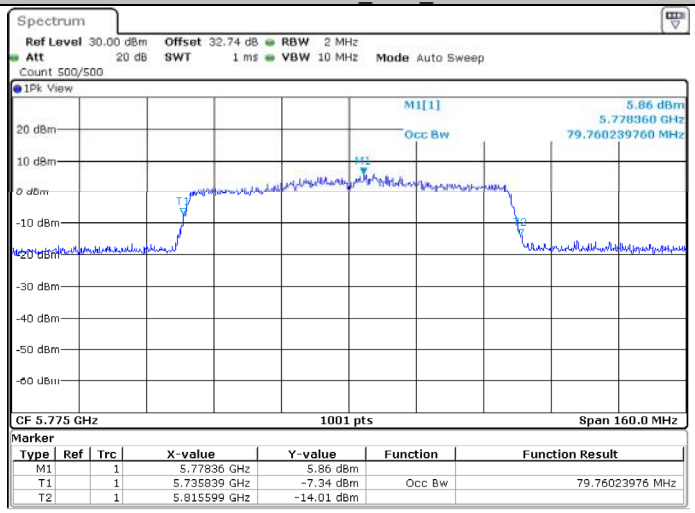



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.779 GHz | 7.11 dBm | | |
| T1 | | 1 | 5.736479 GHz | -3.76 dBm | Occ Bw | 77.522477522 MHz |
| T2 | | 1 | 5.814001 GHz | -4.23 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:02:38

11AC80MIMO_Ant2_5775

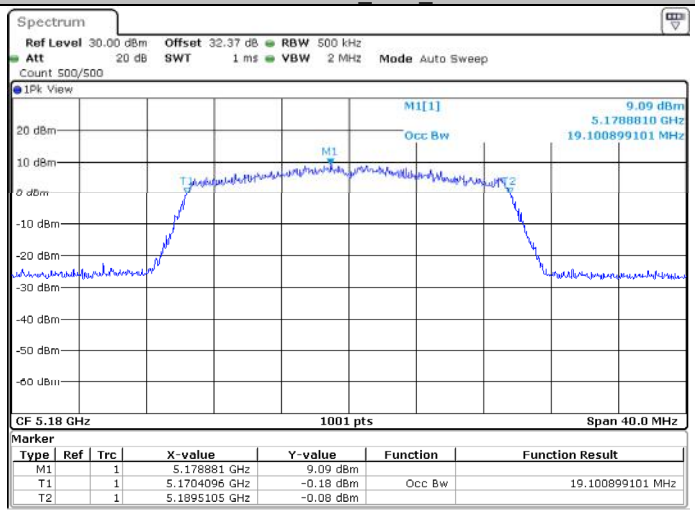



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.77836 GHz | 5.86 dBm | | |
| T1 | | 1 | 5.735839 GHz | -7.34 dBm | Occ Bw | 79.76023976 MHz |
| T2 | | 1 | 5.815599 GHz | -14.01 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:07:14

11AX20MIMO_Ant1_5180

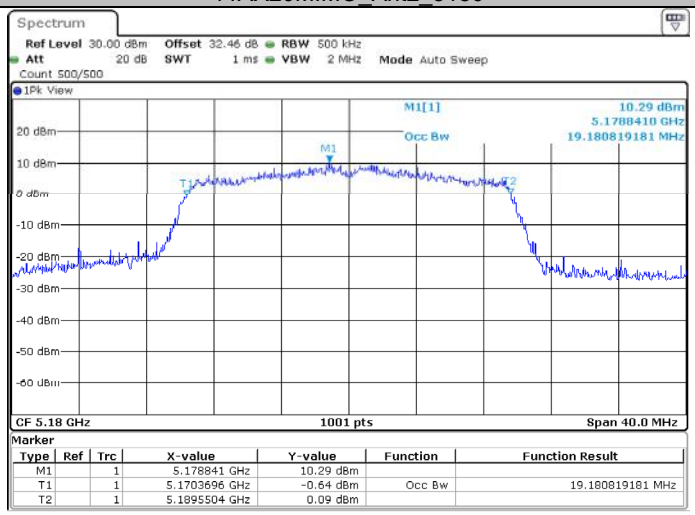



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.178881 GHz | 9.09 dBm | | |
| T1 | | 1 | 5.1704096 GHz | -0.18 dBm | Occ Bw | 19.100899101 MHz |
| T2 | | 1 | 5.1895105 GHz | -0.08 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:09:38

11AX20MIMO_Ant2_5180

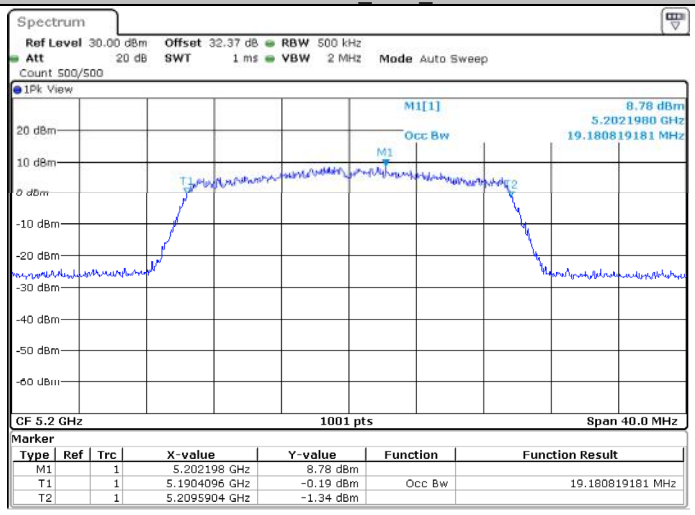



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.178841 GHz | 10.29 dBm | | |
| T1 | | 1 | 5.1703696 GHz | -0.64 dBm | Occ Bw | 19.180819181 MHz |
| T2 | | 1 | 5.1895504 GHz | 0.09 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:11:47

11AX20MIMO_Ant1_5200

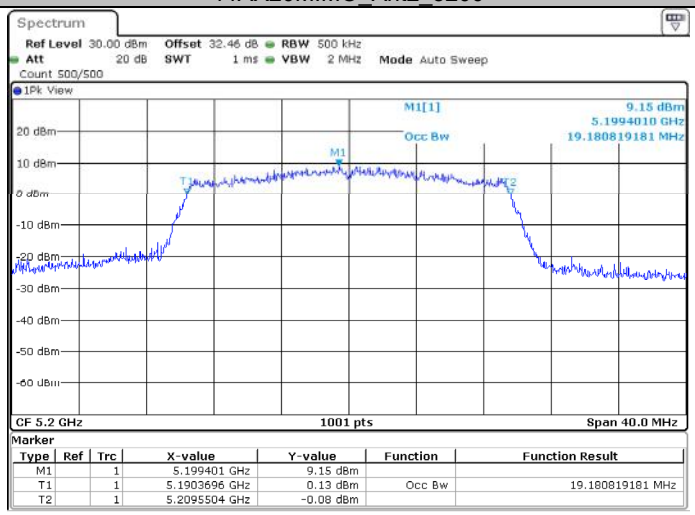



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.202198 GHz | 8.78 dBm | | |
| T1 | | 1 | 5.1904096 GHz | -0.19 dBm | Occ Bw | 19.180819181 MHz |
| T2 | | 1 | 5.2095904 GHz | -1.34 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:13:42

11AX20MIMO_Ant2_5200




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 5.199401 GHz | 9.15 dBm | | |
| T1 | | 1 | 5.1903696 GHz | 0.13 dBm | Occ Bw | 19.180819181 MHz |
| T2 | | 1 | 5.2095504 GHz | -0.08 dBm | | |

ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:15:08