

# RF TEST REPORT

According to

**FCC ID: 2BBLK-WL2179A**

**47 CFR FCC Part 15, Subpart E(Section 15.407)**

**ANSI C63.10:2013**

Product description : WiFi+BT Module  
Model No. : WL00018  
Trade Mark : MTK  
Product No. : POC230524018-S001  
Applicant : Huizhou speed wireless technology co., ltd  
No. 138 Huize Road, Hi-Tech Industrial Park of East River,  
Zhongkai Hi-tech District, Huizhou City, Guangdong Province,  
China  
Receipt date : 2023.07.24  
Test date : 2023.07.26~2023.08.16  
Issued Date : 2023.08.16

| Prepared By:      | Checked By:      | Approved By:    |  |
|-------------------|------------------|-----------------|---------------------------------------------------------------------------------------|
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# Table of Contents

|                                                    |           |
|----------------------------------------------------|-----------|
| <b>History of this test report.....</b>            | <b>4</b>  |
| <b>1. General Information .....</b>                | <b>5</b>  |
| 1.1 Applicant .....                                | 5         |
| 1.2 Manufacturer.....                              | 5         |
| 1.3 Basic Description of Equipment Under Test..... | 5         |
| 1.4 Working Frequencies .....                      | 6         |
| <b>2. Summary of Test Results .....</b>            | <b>8</b>  |
| 2.1 Summary of Test Items .....                    | 8         |
| 2.2 Standards or specification.....                | 8         |
| 2.3 Test Instruments .....                         | 9         |
| 2.4 Test Mode .....                                | 10        |
| 2.5 Test Condition .....                           | 10        |
| 2.6 Duty Cycle of Test Signal .....                | 11        |
| 2.7 Measurement Uncertainty.....                   | 13        |
| 2.8 Test Location.....                             | 13        |
| 2.9 Deviation from Standards .....                 | 13        |
| 2.10 Abnormalities from Standard Conditions.....   | 13        |
| <b>3. Test Procedure And Results .....</b>         | <b>14</b> |
| 3.1 26dB & 99% Bandwidth Measurement .....         | 14        |
| 3.1.1 Limit.....                                   | 14        |
| 3.1.2 Test Procedure .....                         | 14        |
| 3.1.3 Test Setup .....                             | 14        |
| 3.1.4 Test Setup .....                             | 15        |
| 3.1.5 Test Result.....                             | 15        |
| 3.2 Transmitter power .....                        | 94        |
| 3.2.1 Limit.....                                   | 94        |
| 3.2.2 Test Procedure .....                         | 94        |
| 3.2.3 Test Setup .....                             | 94        |

|            |                                                     |            |
|------------|-----------------------------------------------------|------------|
| 3.2.4      | Test Result.....                                    | 95         |
| <b>3.3</b> | <b>Power Spectral Density Measurement.....</b>      | <b>98</b>  |
| 3.3.1      | Limit.....                                          | 98         |
| 3.3.2      | Test Procedure .....                                | 98         |
| 3.3.3      | Test Setting.....                                   | 98         |
| 3.3.4      | Test Setup .....                                    | 99         |
| 3.3.5      | Result.....                                         | 100        |
| <b>3.4</b> | <b>In-Band Emission Measurement.....</b>            | <b>141</b> |
| 3.4.1      | Test Limit .....                                    | 141        |
| 3.4.2      | Test Procedure .....                                | 141        |
| 3.4.3      | Test Setting.....                                   | 141        |
| 3.4.6      | The Result.....                                     | 143        |
| <b>3.5</b> | <b>Frequency Stability Measurement.....</b>         | <b>182</b> |
| 3.5.1      | Limit.....                                          | 182        |
| 3.5.2      | Test Procedure .....                                | 182        |
| 3.5.3      | Test Setup .....                                    | 182        |
| 3.5.4      | The Result.....                                     | 183        |
| <b>3.6</b> | <b>Contention Based Protocol Measurement .....</b>  | <b>205</b> |
| 3.6.1      | Test Limit .....                                    | 205        |
| 3.6.2      | Test Procedure .....                                | 205        |
| 3.6.3      | Test Setting.....                                   | 205        |
| 3.6.4      | Test Setup .....                                    | 206        |
| 3.6.5      | Test Result.....                                    | 207        |
| <b>3.7</b> | <b>Radiated Spurious Emission Measurement .....</b> | <b>214</b> |
| 3.7.1      | Test Limit .....                                    | 214        |
| 3.7.2      | Test Procedure .....                                | 214        |
| 3.7.3      | Test Setting.....                                   | 215        |
| 3.7.4      | Test Setup .....                                    | 216        |
| 3.7.5      | Test Result.....                                    | 217        |
| <b>3.8</b> | <b>AC Conducted Emissions Measurement .....</b>     | <b>263</b> |
| 2.8.1      | Test Limit .....                                    | 263        |
| 2.8.2      | Test Setup .....                                    | 263        |
| 2.8.3      | Test Result.....                                    | 264        |

## History of this test report

Original Report Issue Date: 2023.08.16

- No additional attachment
- Additional attachments were issued following record

| Attachment No. | Issue Date | Description |
|----------------|------------|-------------|
|                |            |             |
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## 1. General Information

### 1.1 Applicant

#### Huizhou speed wireless technology co., ltd

No. 138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai Hi-tech District, Huizhou City, Guangdong Province, China

### 1.2 Manufacturer

#### Huizhou speed wireless technology co., ltd

No. 138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai Hi-tech District, Huizhou City, Guangdong Province, China

### 1.3 Basic Description of Equipment Under Test

|                       |                                                                                                                                                                          |                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Equipment Name        | WiFi+BT Module                                                                                                                                                           |                |
| Model Number          | WL00018                                                                                                                                                                  |                |
| Trademark             | MTK                                                                                                                                                                      |                |
| Power Supply          | DC 3.3V~12V                                                                                                                                                              |                |
| Software Version      | /                                                                                                                                                                        |                |
| Hardware Version      | V12                                                                                                                                                                      |                |
| Operating Temperature | 0℃-60℃                                                                                                                                                                   |                |
| EUT Stage             | ○ Product Unit                                                                                                                                                           | ● Final-Sample |
| Frequency Range       | For 802.11ax-HE20: 5955 ~ 7115MHz<br>For 802.11ax-HE40: 5965 ~ 7085MHz<br>For 802.11ax-HE80: 5985 ~ 7025MHz                                                              |                |
| Channel Number        | For 5925 ~ 6425MHz band: Channel 1-93<br>For 6425 ~ 6525MHz band: Channel 97-119<br>For 6525 ~ 6875MHz band: Channel 117-187<br>For 6875 ~ 7125MHz band: Channel 189-233 |                |
| Modulation            | OFDMA(BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)                                                                                                                         |                |
| Data Rate (Mbps)      | 802.11ax: up to 1201Mbps                                                                                                                                                 |                |
| Type of Device        | Slave device                                                                                                                                                             |                |
| Antenna gain          | Ant1: 3.60dBi, Ant2: 3.50dBi                                                                                                                                             |                |

## 1.4 Working Frequencies

U-NII 5 Band(5925-6425MHz)

| Channel       | Frequency | Channel | Frequency | Channel | Frequency |
|---------------|-----------|---------|-----------|---------|-----------|
| 802.11ax-HE20 |           |         |           |         |           |
| 01            | 5955 MHz  | 05      | 5975 MHz  | 09      | 5995 MHz  |
| 13            | 6015 MHz  | 17      | 6035 MHz  | 21      | 6055 MHz  |
| 25            | 6075 MHz  | 29      | 6095 MHz  | 33      | 6115 MHz  |
| 37            | 6135 MHz  | 41      | 6155 MHz  | 45      | 6175 MHz  |
| 49            | 6195 MHz  | 53      | 6215 MHz  | 57      | 6235 MHz  |
| 61            | 6255 MHz  | 65      | 6275 MHz  | 69      | 6295 MHz  |
| 73            | 6315 MHz  | 77      | 6335 MHz  | 81      | 6355 MHz  |
| 85            | 6375 MHz  | 89      | 6395 MHz  | 93      | 6415 MHz  |
| 802.11ax-HE40 |           |         |           |         |           |
| 03            | 5965 MHz  | 11      | 6005 MHz  | 19      | 6045 MHz  |
| 27            | 6085 MHz  | 35      | 6125 MHz  | 43      | 6165 MHz  |
| 51            | 6205 MHz  | 59      | 6245 MHz  | 67      | 6285 MHz  |
| 75            | 6325 MHz  | 83      | 6365 MHz  | 91      | 6405 MHz  |
| 802.11ax-HE80 |           |         |           |         |           |
| 07            | 5985 MHz  | 23      | 6065 MHz  | 39      | 6145 MHz  |
| 55            | 6225 MHz  | 71      | 6305 MHz  | 87      | 6385 MHz  |

U-NII 6 Band(6425-6525MHz)

| Channel       | Frequency | Channel | Frequency | Channel | Frequency |
|---------------|-----------|---------|-----------|---------|-----------|
| 802.11ax-HE20 |           |         |           |         |           |
| 97            | 6435 MHz  | 101     | 6455 MHz  | 105     | 6475 MHz  |
| 109           | 6495 MHz  | 113     | 6515 MHz  | /       | /         |
| 802.11ax-HE40 |           |         |           |         |           |
| 99            | 6445 MHz  | 107     | 6485 MHz  | 115     | 6525 MHz  |
| 802.11ax-HE80 |           |         |           |         |           |
| 103           | 6465 MHz  | 119     | 6545 MHz  | /       | /         |

U-NII 7 Band(6525-6875MHz)

| Channel       | Frequency | Channel | Frequency | Channel | Frequency |
|---------------|-----------|---------|-----------|---------|-----------|
| 802.11ax-HE20 |           |         |           |         |           |
| 117           | 6535 MHz  | 121     | 6555 MHz  | 125     | 6575 MHz  |
| 129           | 6595 MHz  | 133     | 6615 MHz  | 137     | 6635 MHz  |
| 141           | 6655 MHz  | 145     | 6675 MHz  | 149     | 6695 MHz  |
| 153           | 6715 MHz  | 157     | 6735 MHz  | 161     | 6755 MHz  |
| 165           | 6775 MHz  | 169     | 6795 MHz  | 173     | 6815 MHz  |
| 177           | 6835 MHz  | 181     | 6855 MHz  | 185     | 6875 MHz  |
| 802.11ax-HE40 |           |         |           |         |           |
| 123           | 6565 MHz  | 131     | 6605 MHz  | 139     | 6645 MHz  |
| 147           | 6685 MHz  | 155     | 6725 MHz  | 163     | 6765 MHz  |
| 171           | 6805 MHz  | 179     | 6845 MHz  | 187     | 6885 MHz  |
| 802.11ax-HE80 |           |         |           |         |           |
| 135           | 6625 MHz  | 151     | 6705 MHz  | 167     | 6785 MHz  |
| 183           | 6865 MHz  | /       | /         | /       | /         |

U-NII 8 Band(6875-7125MHz)

| Channel       | Frequency | Channel | Frequency | Channel | Frequency |
|---------------|-----------|---------|-----------|---------|-----------|
| 802.11ax-HE20 |           |         |           |         |           |
| 189           | 6895 MHz  | 193     | 6915 MHz  | 197     | 6935 MHz  |
| 201           | 6955 MHz  | 205     | 6975 MHz  | 209     | 6995 MHz  |
| 213           | 7015 MHz  | 217     | 7035 MHz  | 221     | 7055 MHz  |
| 225           | 7075 MHz  | 229     | 7095 MHz  | 233     | 7115 MHz  |
| 802.11ax-HE40 |           |         |           |         |           |
| 195           | 6925 MHz  | 203     | 6965 MHz  | 211     | 7005 MHz  |
| 219           | 7045 MHz  | 227     | 7085 MHz  | /       | /         |
| 802.11ax-HE80 |           |         |           |         |           |
| 199           | 6945 MHz  | 215     | 7025 MHz  | /       | /         |

## 2. Summary of Test Results

### 2.1 Summary of Test Items

| FCC Section(s)       | Test Description                      | Test Condition | Verdict |
|----------------------|---------------------------------------|----------------|---------|
| 15.407(a)            | 26dB & 99% Bandwidth                  | Conducted      | Pass    |
| 15.407(b)(7)         | In-Band Emission                      |                | Pass    |
| 15.407(a)(5), (a)(6) | Transmitter power                     |                | Pass    |
| 15.407(a)(5), (a)(6) | Peak Power Spectral Density (E.I.R.P) |                | Pass    |
| 15.407(d)(6)         | Contention-Based Protocol             |                | Pass    |
| 15.407(g)            | Frequency Stability                   |                | Pass    |
| 15.407(b)(6)         | Unwanted Emissions                    | Radiated       | Pass    |
| 15.207               | AC Conducted Emissions                | Line Conducted | Pass    |
| 15.203               | Antenna Requirements                  | /              | Note4   |

#### Remark:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- Output power test was verified over all data rates of each mode, and then choose the maximum power output (low data rate) for final test of each channel.
- For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
- The EUT have 4 internal antennas arrangement which was permanently attached.
- EUT supports one configuration only in 802.11ax full RU mode.

### 2.2 Standards or specification

47CFR Part 15

ANSI C63.10(2013)

KDB 987594 D02 v01v01

KDB 789033 D02 v02r01

KDB 662911 D01 v02r01

KDB 414788 D01 v01r01

## 2.3 Test Instruments

| Radiated Emissions    |                                         |                              |                 |                |                           |                               |
|-----------------------|-----------------------------------------|------------------------------|-----------------|----------------|---------------------------|-------------------------------|
| No.                   | Equipment                               | Manufacturer                 | Type No.        | Serial No.     | Cal. date<br>(yyyy/mm/dd) | Cal. Due date<br>(yyyy/mm/dd) |
| 1                     | Test receiver                           | Rohde&Schwarz                | ESU             | 100184         | 2023/5/3                  | 2024/5/2                      |
| 2                     | Horn Antenna                            | Schwarzbeck                  | BBHA<br>9120 D  | 9120D-127<br>3 | 2023/4/23                 | 2024/4/22                     |
| 3                     | Low frequency<br>amplifier              | Unknown                      | LNA 0920N       | 2014           | 2023/5/3                  | 2024/5/2                      |
| 4                     | High frequency<br>amplifier             | Schwarzbeck                  | BBV 9718        | 284            | 2023/5/3                  | 2024/5/2                      |
| 5                     | Loop Antenna                            | Schwarzbeck                  | FMZB1519<br>B   | 00029          | 2022/7/4                  | 2025/7/3                      |
| 6                     | Log periodic<br>antenna                 | Schwarzbeck                  | VULB 9168       | 1151           | 2023/4/23                 | 2024/4/22                     |
| 7                     | Horn Antenna                            | Schwarzbeck                  | BBHA<br>9120 D  | 9120D-127<br>3 | 2022/5/5                  | 2025/5/4                      |
| 8                     | Horn Antenna                            | Schwarzbeck                  | BBHA<br>9170    | 9170#685       | 2022/7/4                  | 2025/7/3                      |
| 9                     | Temp&Humidity<br>Recorder               | Meideshi                     | JR900           | /              | 2023/5/3                  | 2024/5/2                      |
| 10                    | RF cable(966<br>chamber)9kHz-1<br>GHz   | Unknown                      | Unknown         | Unknown        | 2023/5/3                  | 2024/5/2                      |
| 11                    | RF cable(966<br>chamber)1GHz-<br>18GHz  | Unknown                      | Unknown         | Unknown        | 2023/5/3                  | 2024/5/2                      |
| 12                    | RF cable(966<br>chamber)18GHz<br>-40GHz | Unknown                      | Unknown         | Unknown        | 2023/5/3                  | 2024/5/2                      |
| 13                    | Test software                           | Farad Technology<br>Co., Ltd | EZ-EMC          | /              | /                         | /                             |
| Conducted Emission    |                                         |                              |                 |                |                           |                               |
| 1                     | Test receiver                           | Rohde&Schwarz                | ESCI            | 100718         | 2023/5/3                  | 2024/5/2                      |
| 2                     | LISN                                    | Rohde&Schwarz                | ENV216          | 100075         | 2023/5/3                  | 2024/5/2                      |
| 3                     | Pulse limiter                           | Rohde&Schwarz                | ESH3-Z2         | 102299         | 2023/5/3                  | 2024/5/2                      |
| 4                     | RF cable<br>(9kHz-30MHz)                | Unknown                      | Unknown         | Unknown        | 2023/5/3                  | 2024/5/2                      |
| 5                     | Test software                           | Farad Technology<br>Co., Ltd | EZ-EMC          | /              | /                         | /                             |
| RF Conducted Emission |                                         |                              |                 |                |                           |                               |
| 1                     | MXA Signal<br>Analyzer                  | Keysight                     | N9021B          | MY600801<br>69 | 2023/4/23                 | 2024/4/22                     |
| 2                     | RF Control Unit                         | dsusoft                      | JS0806-2        | 21G806044<br>9 | 2023/4/23                 | 2024/4/22                     |
| 3                     | power supply<br>unit                    | dsusoft                      | JS0806-4A<br>DC | N/A            | 2023/4/23                 | 2024/4/22                     |
| 4                     | VXG Signal<br>Generator                 | Keysight                     | M9384B          | MY612707<br>87 | 2023/4/23                 | 2024/4/22                     |
| 5                     | EXG Analog<br>Signal<br>Generator       | Keysight                     | N5173B          | MY591012<br>82 | 2023/4/23                 | 2024/4/22                     |
| 6                     | Test software                           | dsusoft                      | JS1120-3        | /              | /                         | /                             |

## 2.4 Test Mode

The EUT was supplied by and it was run in TX mode that was controlled by Master provided RF testing program. The worst case test result was showed in the report.

|                                         |
|-----------------------------------------|
| Mode 1: Transmit by 802.11ax-HE20(MCS0) |
| Mode 2: Transmit by 802.11ax-HE40(MCS0) |
| Mode 3: Transmit by 802.11ax-HE80(MCS0) |

## 2.5 Test Condition

| Applicable to               | Environmental conditions | Input Power  | Tested by   |
|-----------------------------|--------------------------|--------------|-------------|
| 26dB & 99% Bandwidth        | 24.3°C, 51% RH           | DC 5V        | Jason Huang |
| In-Band Emission            | 24.2°C, 55% RH           | DC 5V        | Jason Huang |
| Contention-Based Protocol   | 24.2°C, 52% RH           | DC 5V        | Jason Huang |
| Frequency Stability         | 24.2°C, 52% RH           | DC 5V        | Jason Huang |
| Transmitter power           | 24.2°C, 52% RH           | DC 5V        | Jason Huang |
| Peak Power Spectral Density | 24.2°C, 52% RH           | DC 5V        | Jason Huang |
| Unwanted Emissions          | 24.3°C, 54% RH           | AC 120V/60Hz | Albert Fan  |
| AC Conducted Emissions      | 24.3°C, 54% RH           | AC 120V/60Hz | Albert Fan  |

Note: Adapter supply voltage AC 120V/60Hz.

The applicant declare the operating environment of EUT as below:

Normal conditions: DC 5V, 0~60°C

Extreme conditions: NV: 5V

NT: 20°C

LV: 4.5V

HV: 5.5V

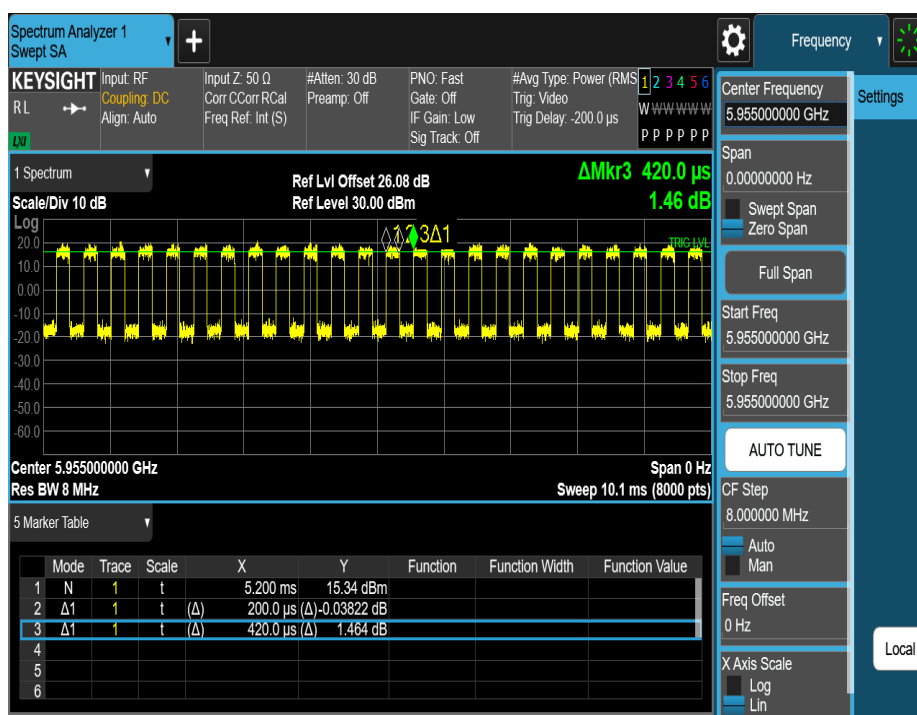
## 2.6 Duty Cycle of Test Signal

If duty cycle is  $\geq 98\%$ , duty factor is not required.

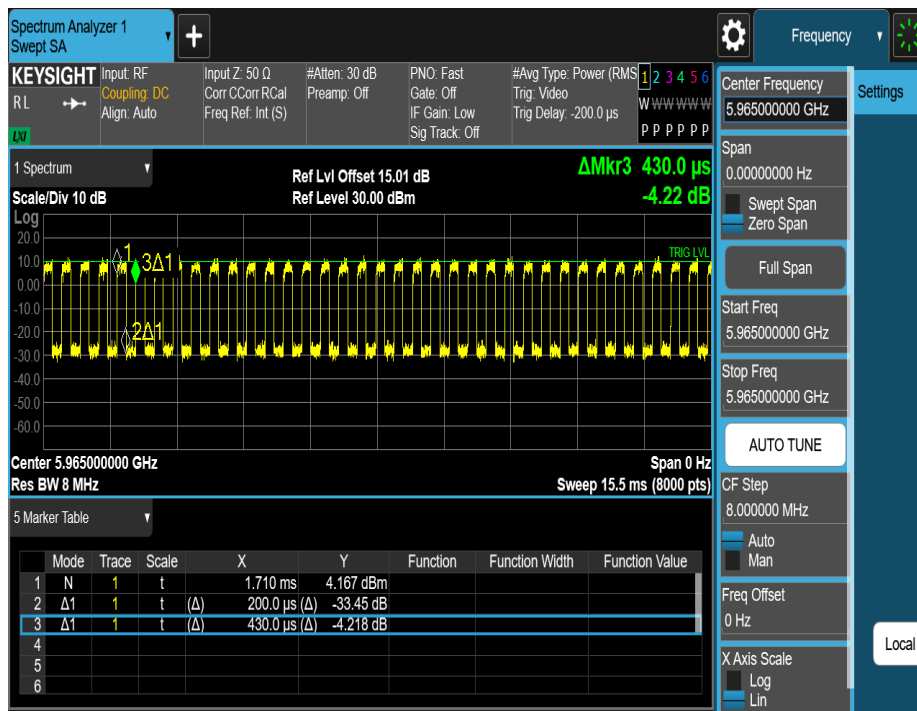
If duty cycle is  $< 98\%$ , duty factor shall be considered.

All the duty factor of other test mode have been considered.

| Test Mode  | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Limit | Verdict |
|------------|---------|---------|----------------------------|--------------------------|----------------|-------|---------|
| 11AX20MIMO | Ant1    | 5955    | 0.20                       | 0.42                     | 47.62          | ---   | ---     |
| 11AX40MIMO | Ant1    | 5965    | 0.20                       | 0.43                     | 46.51          | ---   | ---     |
| 11AX80MIMO | Ant1    | 5985    | 0.19                       | 0.44                     | 43.18          | ---   | ---     |



NTNV-11AX20MIMO-Ant1-5955



NTNV-11AX40MIMO-Ant1-5965



NTNV-11AX80MIMO-Ant1-5985

## 2.7 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

| Uncertainty                            |                  |
|----------------------------------------|------------------|
| Parameter                              | Uncertainty      |
| Occupied Channel Bandwidth             | $\pm 143.88$ kHz |
| Power Spectral Density                 | $\pm 0.743$ dB   |
| Conducted Spurious Emission            | $\pm 1.328$ dB   |
| RF power conducted                     | $\pm 0.384$ dB   |
| Conducted emission(9kHz~30MHz) AC main | $\pm 2.72$ dB    |
| Radiated emission(9kHz~30MHz)          | $\pm 2.66$ dB    |
| Radiated emission (30MHz~1GHz)         | $\pm 4.62$ dB    |
| Radiated emission (1GHz~18GHz)         | $\pm 4.86$ dB    |
| Radiated emission (18GHz~40GHz)        | $\pm 3.80$ dB    |

## 2.8 Test Location

|                           |                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------|
| Company:                  | Shenzhen Haiyun Standard Technical CO., Ltd.                                                |
| Address:                  | No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China |
| CNAS Registration Number: | CNAS L18252                                                                                 |
| CAB identifier:           | CN0145                                                                                      |
| A2LA Certificate Number:  | 6823.01                                                                                     |
| Telephone:                | 0755-26024411                                                                               |

## 2.9 Deviation from Standards

None

## 2.10 Abnormalities from Standard Conditions

None

### 3. Test Procedure And Results

#### 3.1 26dB & 99% Bandwidth Measurement

##### 3.1.1 Limit

The upper and lower frequency limits of the transmitter 99 % emission power bandwidth shall at all times remain within the operating frequency limits.

Some transmitter categories require a specific limit for emission bandwidth. In such cases, the emission bandwidth shall be established by testing in accordance with the relevant specified Standard.

##### 3.1.2 Test Procedure

KDB 789033 D02v02r01- Section II)C)1) (26dB Bandwidth)

KDB 789033 D02v02r01- Section II)D) (99% Bandwidth)

##### 3.1.3 Test Setup

###### 26dB Bandwidth

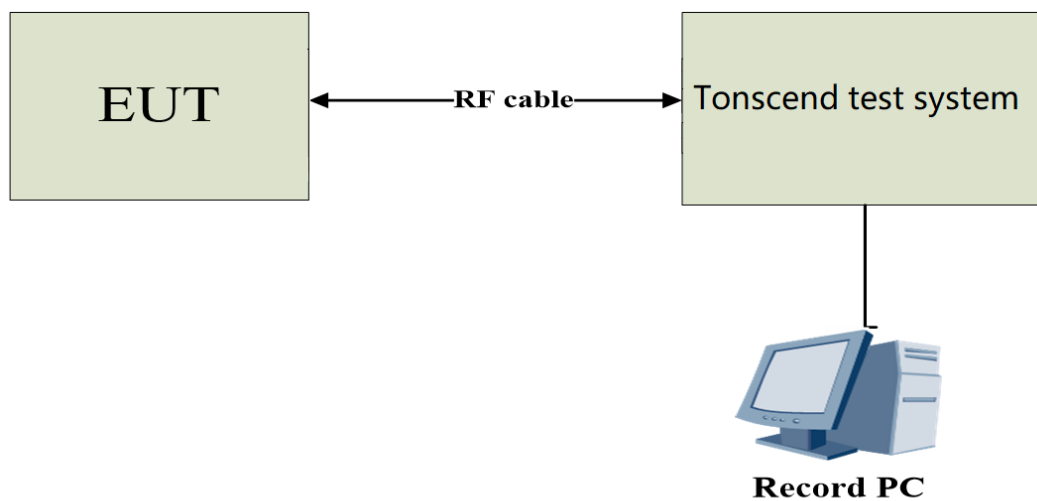
1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

###### 99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 1% to 5% of the OBW
3.  $VBW \geq 3 \times RBW$
4. Span = 1.5 times to 5 times the OBW
5. Detector = peak
6. Trace mode = max hold
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument.

### 3.1.4 Test Setup



### 3.1.5 Test Result

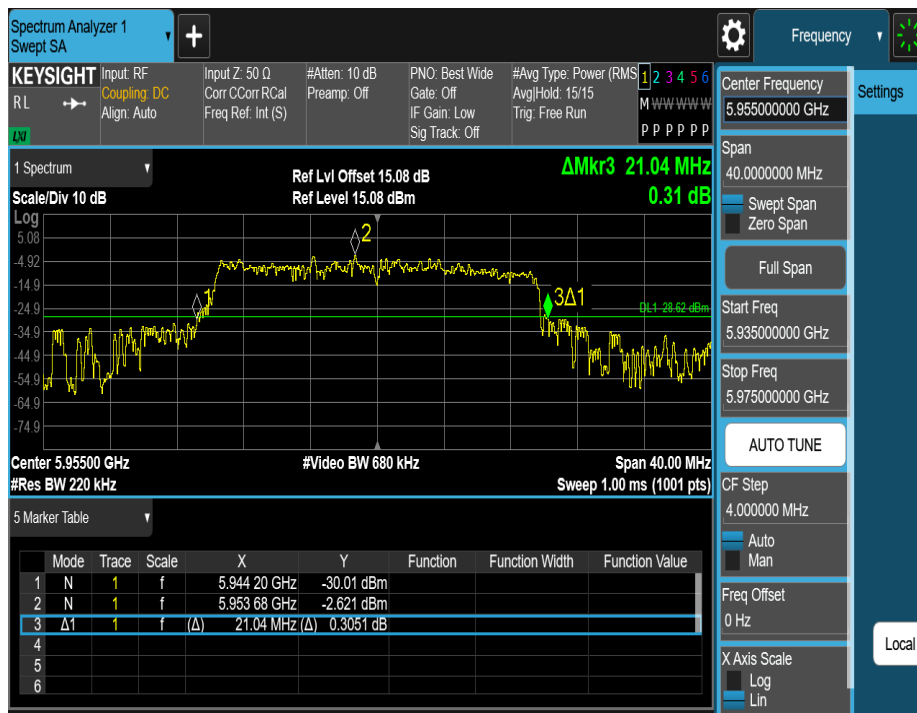
#### Emission Bandwidth

| Test Mode  | Antenna | Channel | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|---------|----------------|----------|----------|------------|---------|
| 11AX20MIMO | Ant1    | 5955    | 21.040         | 5944.200 | 5965.240 | ---        | ---     |
|            | Ant2    | 5955    | 21.080         | 5944.520 | 5965.600 | ---        | ---     |
|            | Ant1    | 6175    | 21.800         | 6163.720 | 6185.520 | ---        | ---     |
|            | Ant2    | 6175    | 21.320         | 6163.920 | 6185.240 | ---        | ---     |
|            | Ant1    | 6415    | 22.000         | 6403.120 | 6425.120 | ---        | ---     |
|            | Ant2    | 6415    | 22.720         | 6404.440 | 6427.160 | ---        | ---     |
|            | Ant1    | 6435    | 21.040         | 6424.320 | 6445.360 | ---        | ---     |
|            | Ant2    | 6435    | 20.760         | 6424.840 | 6445.600 | ---        | ---     |
|            | Ant1    | 6475    | 20.920         | 6464.160 | 6485.080 | ---        | ---     |
|            | Ant2    | 6475    | 23.720         | 6461.520 | 6485.240 | ---        | ---     |
|            | Ant1    | 6515    | 20.360         | 6504.760 | 6525.120 | ---        | ---     |
|            | Ant2    | 6515    | 21.160         | 6503.920 | 6525.080 | ---        | ---     |
|            | Ant1    | 6535    | 23.800         | 6522.080 | 6545.880 | ---        | ---     |
|            | Ant2    | 6535    | 20.840         | 6524.720 | 6545.560 | ---        | ---     |
|            | Ant1    | 6695    | 20.600         | 6684.600 | 6705.200 | ---        | ---     |
|            | Ant2    | 6695    | 23.440         | 6683.000 | 6706.440 | ---        | ---     |
|            | Ant1    | 6855    | 21.920         | 6845.120 | 6867.040 | ---        | ---     |
|            | Ant2    | 6855    | 21.440         | 6843.720 | 6865.160 | ---        | ---     |
|            | Ant1    | 6875    | 21.120         | 6864.160 | 6885.280 | ---        | ---     |
|            | Ant2    | 6875    | 24.760         | 6860.960 | 6885.720 | ---        | ---     |
|            | Ant1    | 6895    | 22.800         | 6882.520 | 6905.320 | ---        | ---     |

|            |      |      |        |          |          |     |     |
|------------|------|------|--------|----------|----------|-----|-----|
|            | Ant2 | 6895 | 23.360 | 6882.640 | 6906.000 | --- | --- |
|            | Ant1 | 6995 | 21.560 | 6984.400 | 7005.960 | --- | --- |
|            | Ant2 | 6995 | 20.800 | 6984.840 | 7005.640 | --- | --- |
|            | Ant1 | 7115 | 21.080 | 7104.240 | 7125.320 | --- | --- |
|            | Ant2 | 7115 | 25.000 | 7103.320 | 7128.320 | --- | --- |
| 11AX40MIMO | Ant1 | 5965 | 39.200 | 5945.400 | 5984.600 | --- | --- |
|            | Ant2 | 5965 | 39.280 | 5945.400 | 5984.680 | --- | --- |
|            | Ant1 | 6165 | 39.360 | 6145.240 | 6184.600 | --- | --- |
|            | Ant2 | 6165 | 39.040 | 6145.400 | 6184.440 | --- | --- |
|            | Ant1 | 6405 | 39.120 | 6385.320 | 6424.440 | --- | --- |
|            | Ant2 | 6405 | 39.120 | 6385.400 | 6424.520 | --- | --- |
|            | Ant1 | 6445 | 39.600 | 6425.160 | 6464.760 | --- | --- |
|            | Ant2 | 6445 | 39.280 | 6425.160 | 6464.440 | --- | --- |
|            | Ant1 | 6485 | 39.280 | 6465.320 | 6504.600 | --- | --- |
|            | Ant2 | 6485 | 39.120 | 6465.320 | 6504.440 | --- | --- |
|            | Ant1 | 6525 | 39.280 | 6505.400 | 6544.680 | --- | --- |
|            | Ant2 | 6525 | 39.280 | 6505.160 | 6544.440 | --- | --- |
|            | Ant1 | 6565 | 39.280 | 6545.400 | 6584.680 | --- | --- |
|            | Ant2 | 6565 | 39.040 | 6545.400 | 6584.440 | --- | --- |
|            | Ant1 | 6685 | 39.040 | 6665.480 | 6704.520 | --- | --- |
|            | Ant2 | 6685 | 39.520 | 6665.240 | 6704.760 | --- | --- |
|            | Ant1 | 6845 | 39.280 | 6825.240 | 6864.520 | --- | --- |
|            | Ant2 | 6845 | 39.200 | 6825.480 | 6864.680 | --- | --- |
|            | Ant1 | 6885 | 39.440 | 6865.400 | 6904.840 | --- | --- |
|            | Ant2 | 6885 | 39.440 | 6865.000 | 6904.440 | --- | --- |
|            | Ant1 | 6925 | 39.280 | 6905.240 | 6944.520 | --- | --- |
|            | Ant2 | 6925 | 39.120 | 6905.400 | 6944.520 | --- | --- |
|            | Ant1 | 6965 | 39.280 | 6945.400 | 6984.680 | --- | --- |
|            | Ant2 | 6965 | 39.040 | 6945.400 | 6984.440 | --- | --- |
|            | Ant1 | 7085 | 39.120 | 7065.480 | 7104.600 | --- | --- |
|            | Ant2 | 7085 | 39.120 | 7065.480 | 7104.600 | --- | --- |
| 11AX80MIMO | Ant1 | 5985 | 79.680 | 5945.160 | 6024.840 | --- | --- |
|            | Ant2 | 5985 | 79.840 | 5945.000 | 6024.840 | --- | --- |
|            | Ant1 | 6145 | 79.840 | 6105.000 | 6184.840 | --- | --- |
|            | Ant2 | 6145 | 79.680 | 6105.160 | 6184.840 | --- | --- |
|            | Ant1 | 6385 | 80.160 | 6345.000 | 6425.160 | --- | --- |
|            | Ant2 | 6385 | 80.000 | 6344.840 | 6424.840 | --- | --- |
|            | Ant1 | 6465 | 80.000 | 6425.000 | 6505.000 | --- | --- |
|            | Ant2 | 6465 | 80.160 | 6424.840 | 6505.000 | --- | --- |
|            | Ant1 | 6545 | 79.840 | 6505.000 | 6584.840 | --- | --- |
|            | Ant2 | 6545 | 80.160 | 6505.000 | 6585.160 | --- | --- |
|            | Ant1 | 6625 | 79.840 | 6585.000 | 6664.840 | --- | --- |

|  |      |      |        |          |          |     |     |
|--|------|------|--------|----------|----------|-----|-----|
|  | Ant2 | 6625 | 80.000 | 6584.840 | 6664.840 | --- | --- |
|  | Ant1 | 6705 | 79.840 | 6665.000 | 6744.840 | --- | --- |
|  | Ant2 | 6705 | 79.680 | 6665.160 | 6744.840 | --- | --- |
|  | Ant1 | 6785 | 79.840 | 6745.000 | 6824.840 | --- | --- |
|  | Ant2 | 6785 | 79.840 | 6745.000 | 6824.840 | --- | --- |
|  | Ant1 | 6865 | 80.160 | 6824.840 | 6905.000 | --- | --- |
|  | Ant2 | 6865 | 79.520 | 6825.160 | 6904.680 | --- | --- |
|  | Ant1 | 6945 | 80.000 | 6904.840 | 6984.840 | --- | --- |
|  | Ant2 | 6945 | 80.000 | 6904.840 | 6984.840 | --- | --- |
|  | Ant1 | 7025 | 79.680 | 6985.160 | 7064.840 | --- | --- |
|  | Ant2 | 7025 | 79.840 | 6985.000 | 7064.840 | --- | --- |

### 11AX20MIMO\_Ant1\_5955



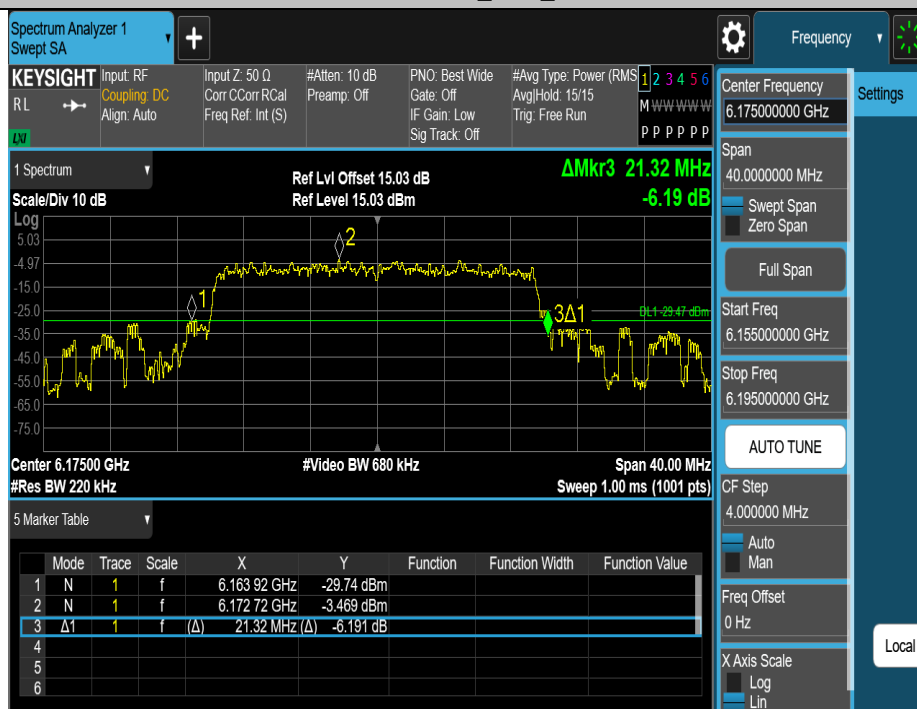
### 11AX20MIMO\_Ant2\_5955



### 11AX20MIMO\_Ant1\_6175



### 11AX20MIMO\_Ant2\_6175



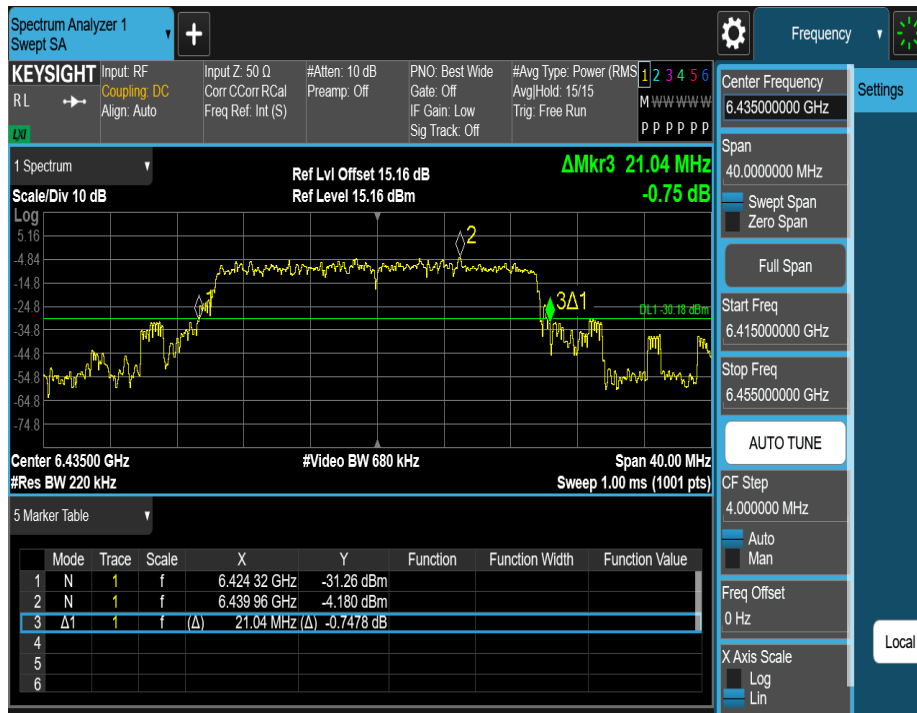
### 11AX20MIMO\_Ant1\_6415



### 11AX20MIMO\_Ant2\_6415



### 11AX20MIMO\_Ant1\_6435



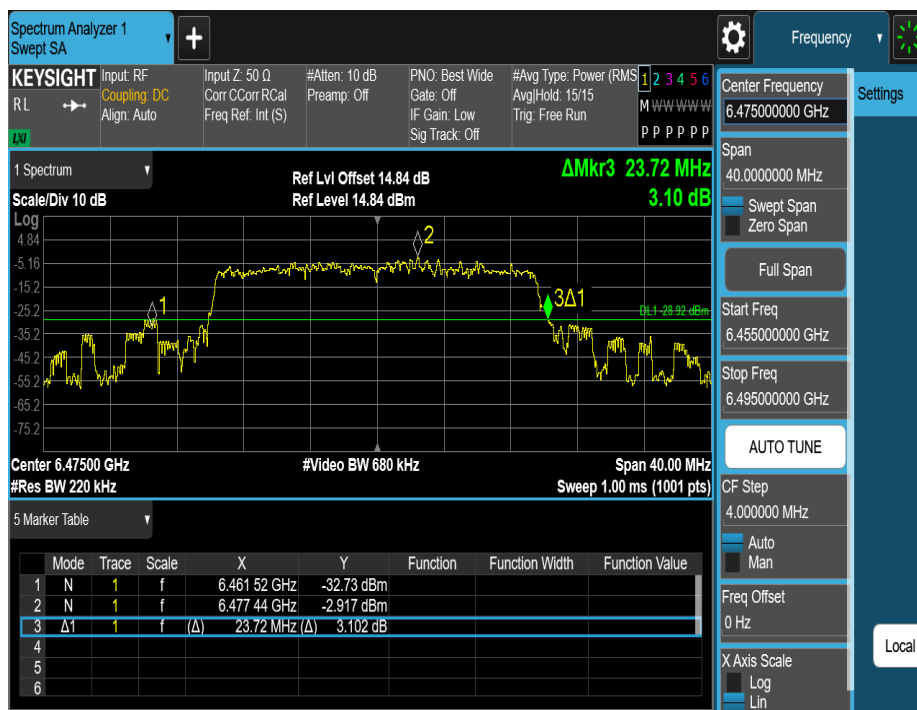
### 11AX20MIMO\_Ant2\_6435



### 11AX20MIMO\_Ant1\_6475



### 11AX20MIMO\_Ant2\_6475



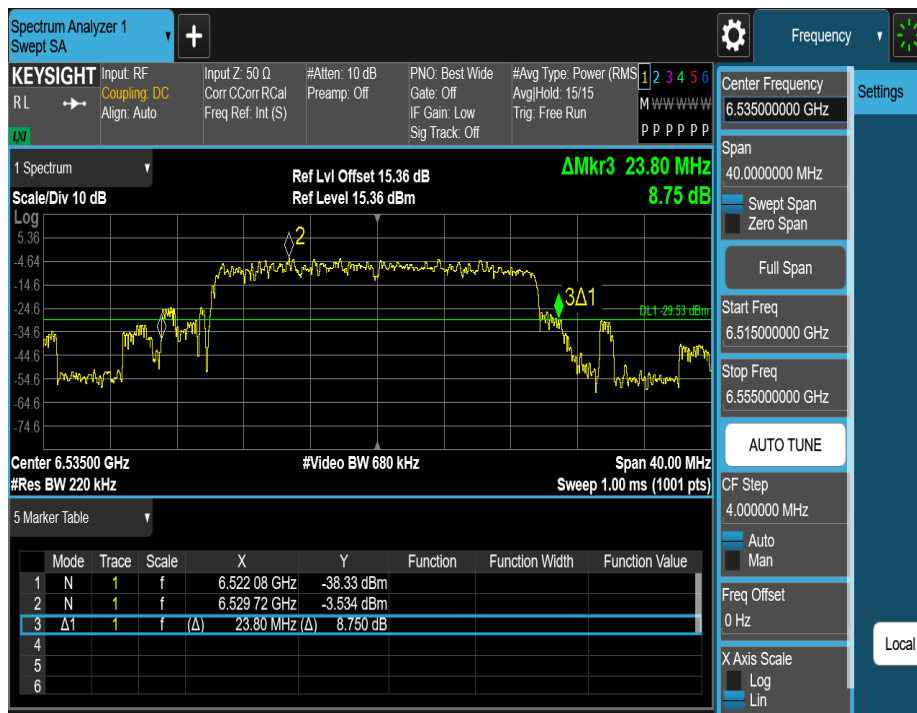
### 11AX20MIMO\_Ant1\_6515



### 11AX20MIMO\_Ant2\_6515

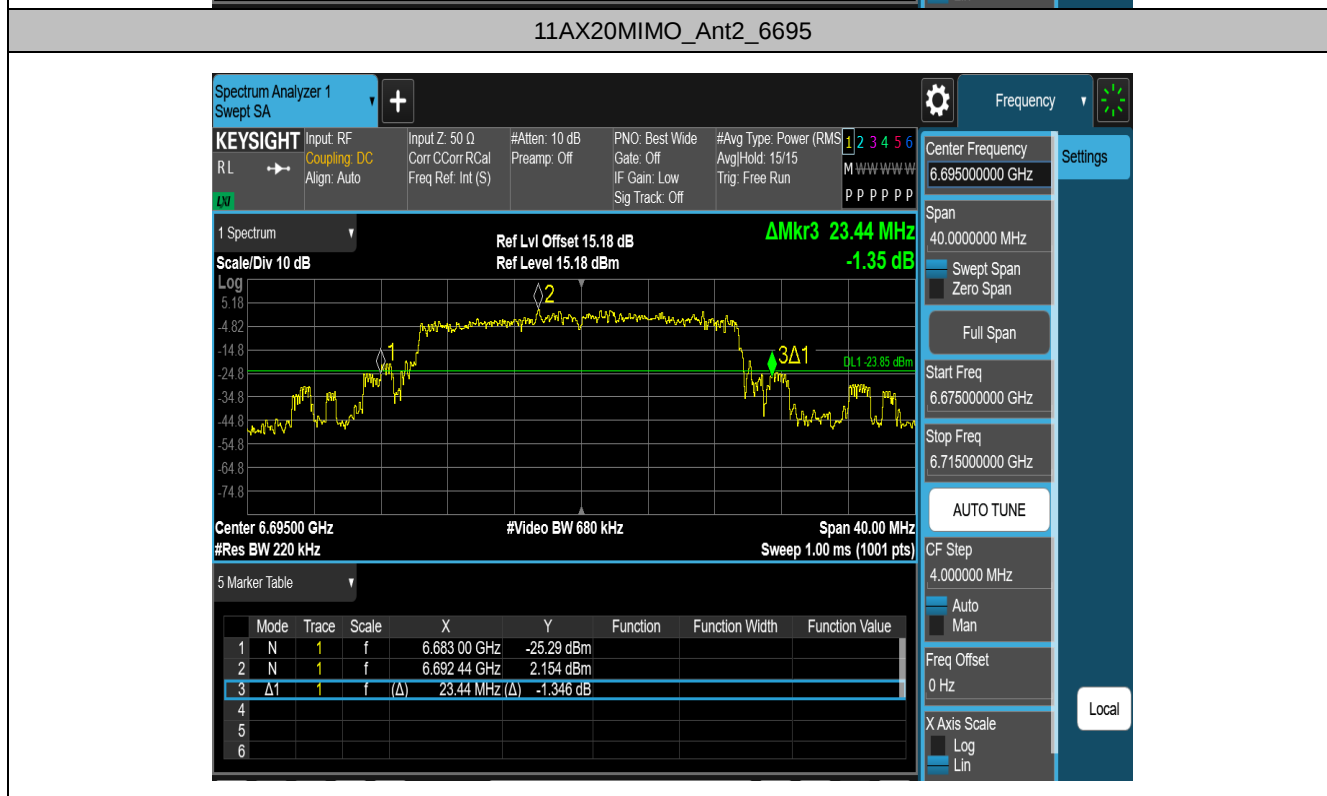


### 11AX20MIMO\_Ant1\_6535

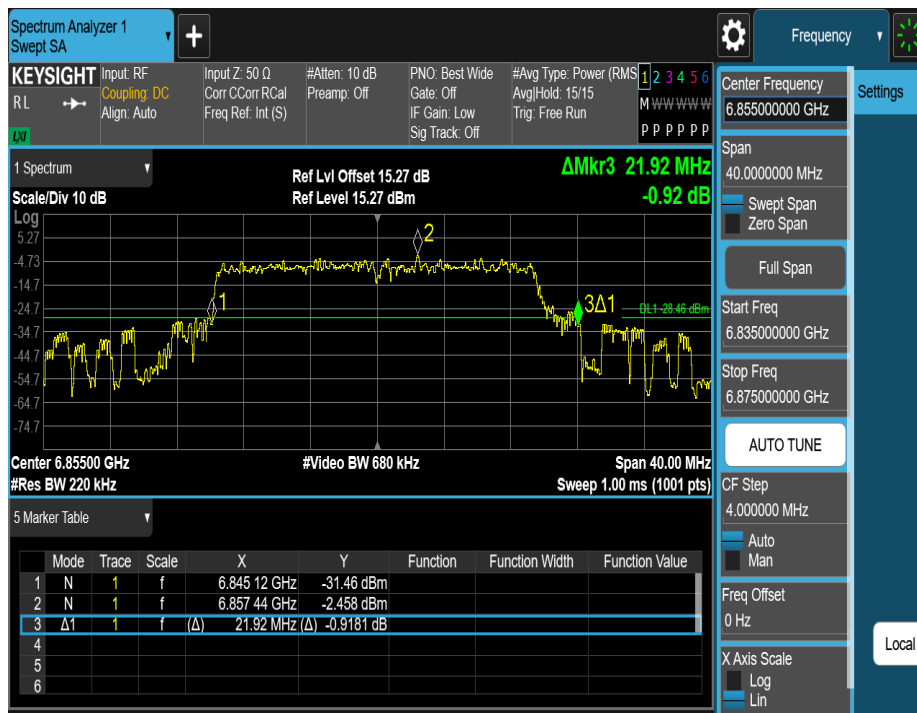


### 11AX20MIMO\_Ant2\_6535





# 11AX20MIMO\_Ant1\_6855



# 11AX20MIMO\_Ant2\_6855



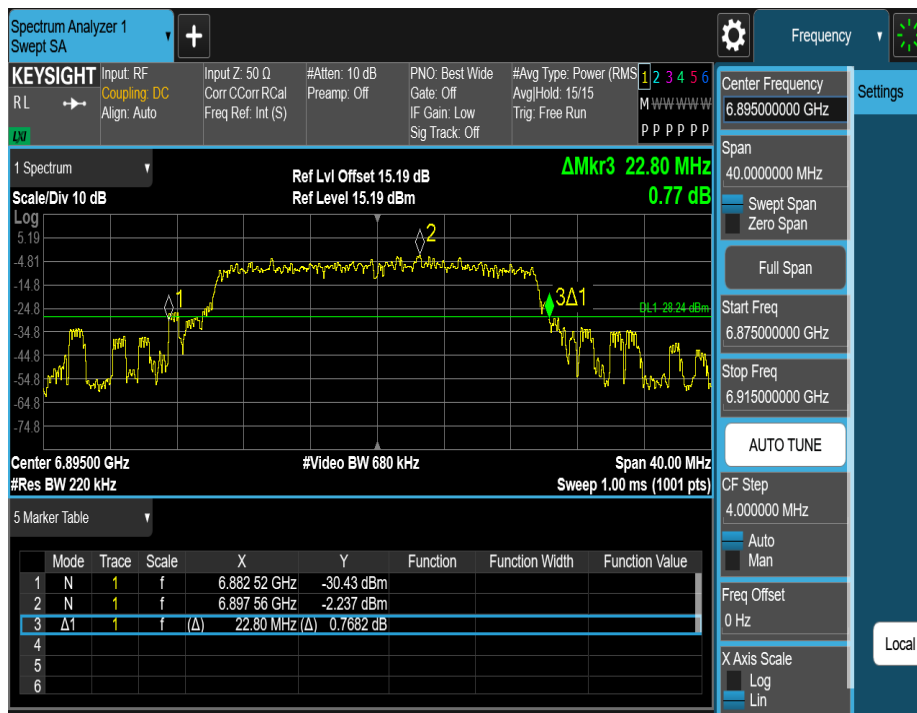
### 11AX20MIMO\_Ant1\_6875



### 11AX20MIMO\_Ant2\_6875



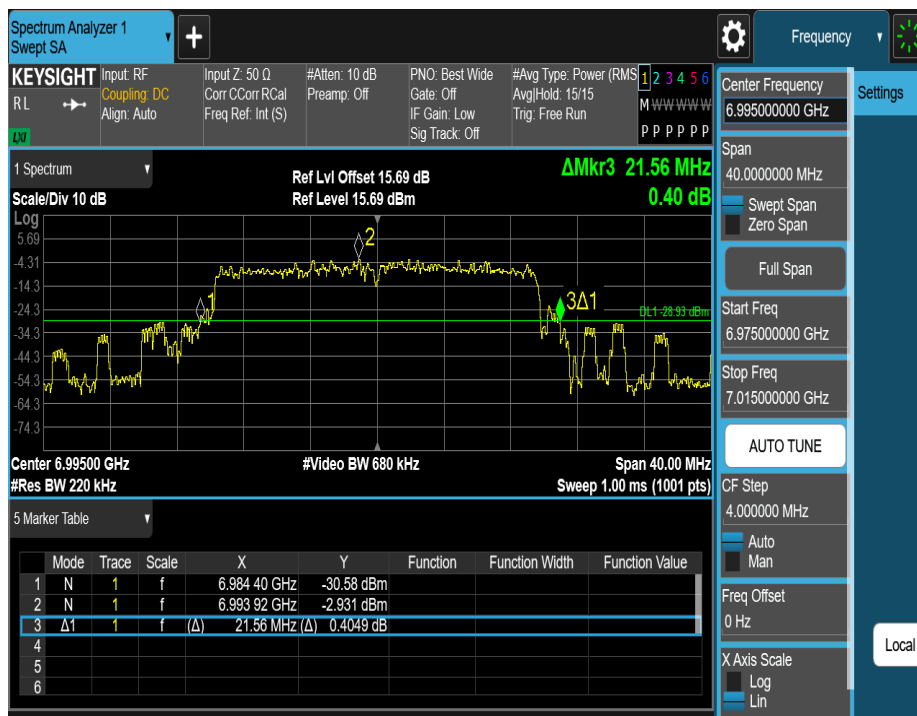
### 11AX20MIMO\_Ant1\_6895



### 11AX20MIMO\_Ant2\_6895



### 11AX20MIMO\_Ant1\_6995



### 11AX20MIMO\_Ant2\_6995



### 11AX20MIMO\_Ant1\_7115



### 11AX20MIMO\_Ant2\_7115

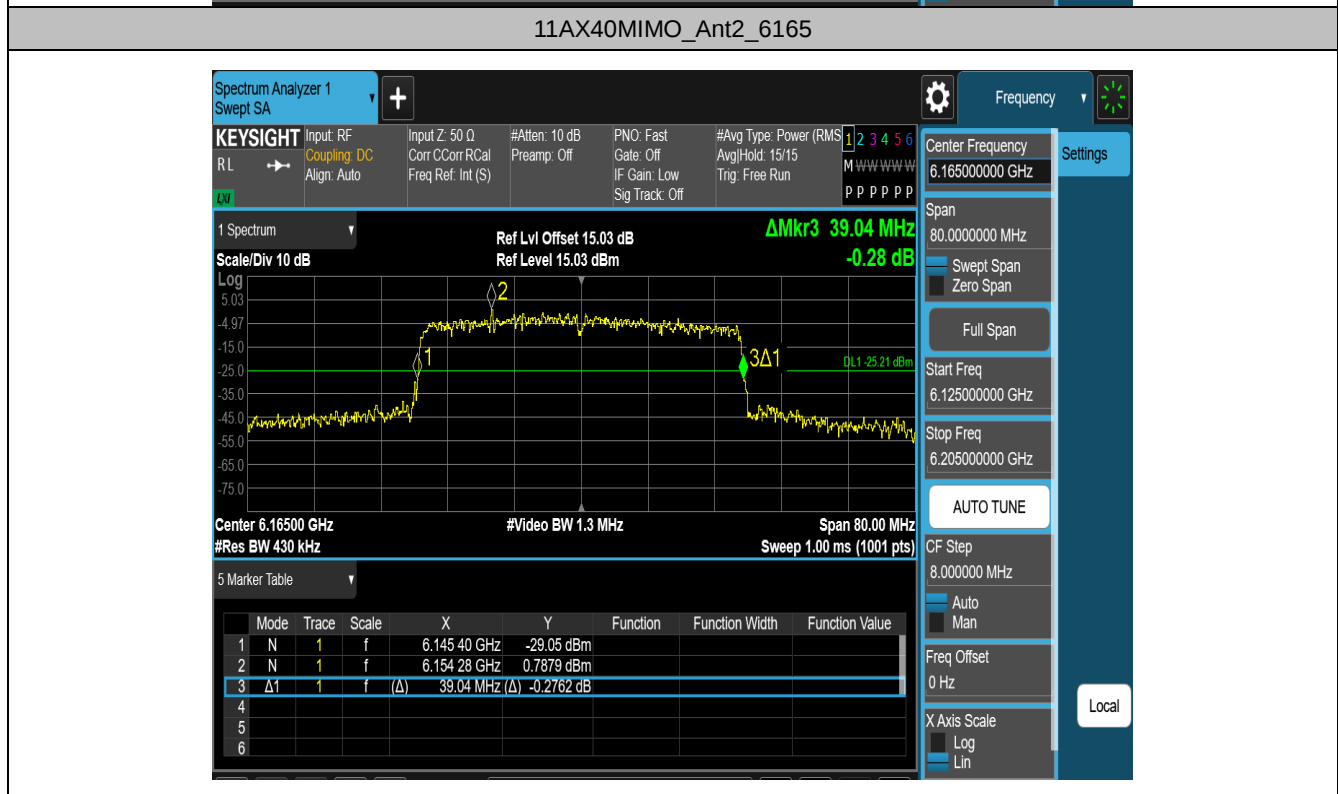
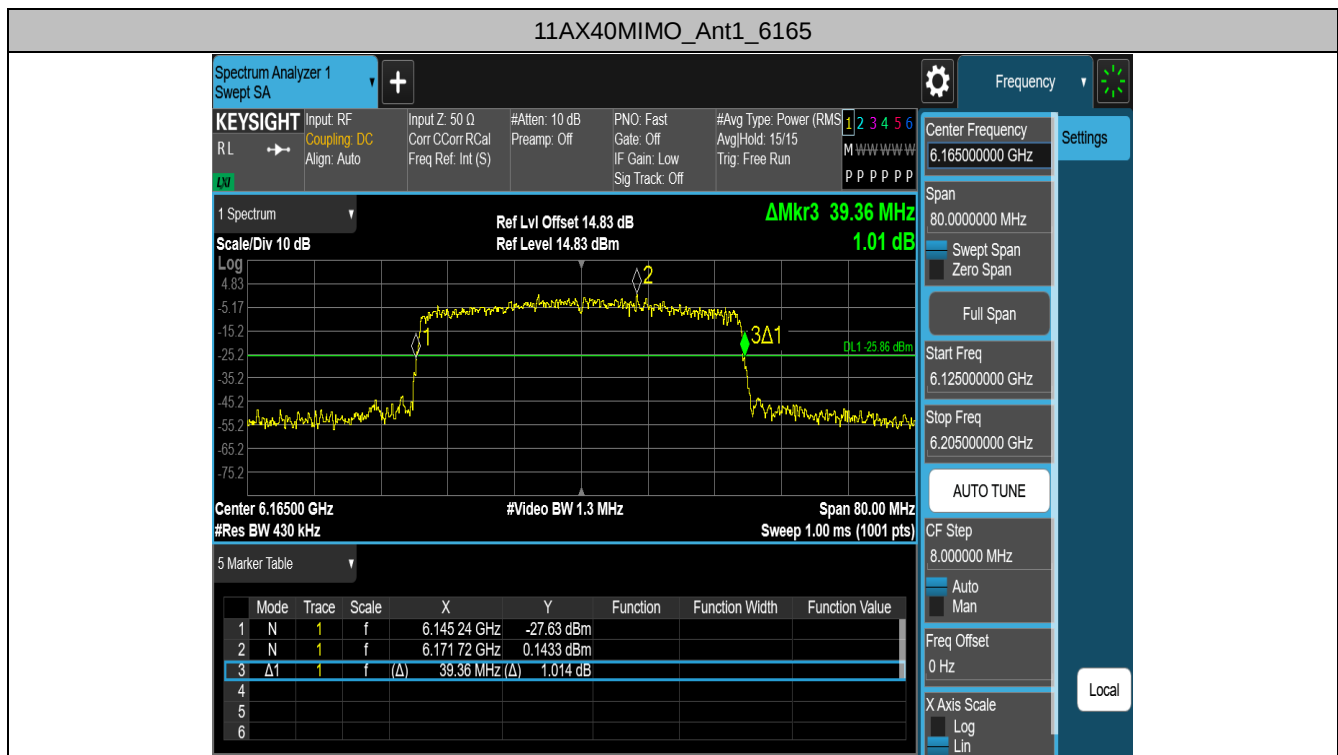


### 11AX40MIMO\_Ant1\_5965

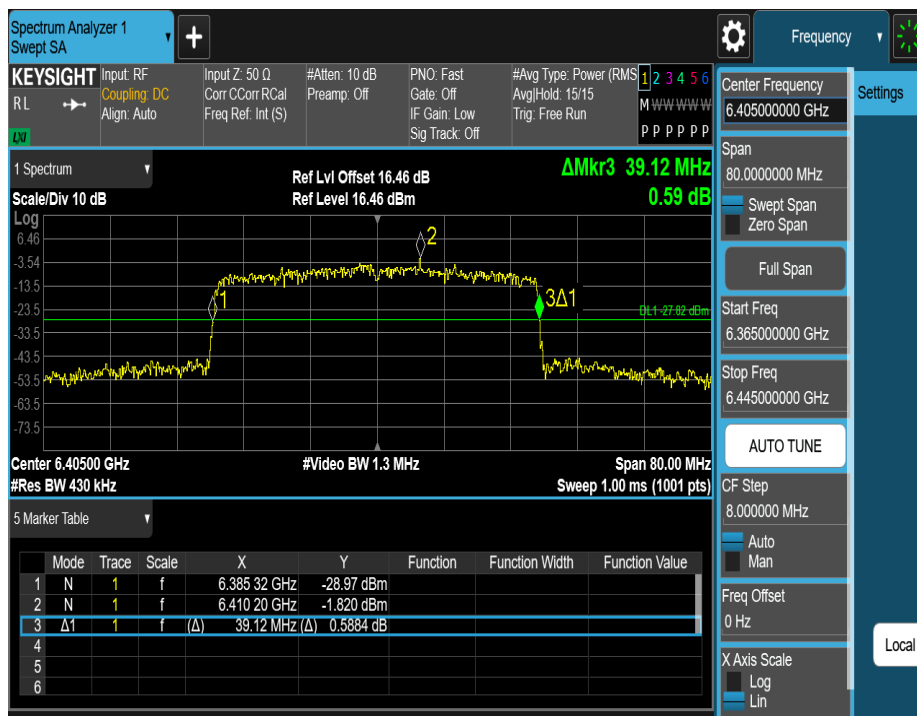


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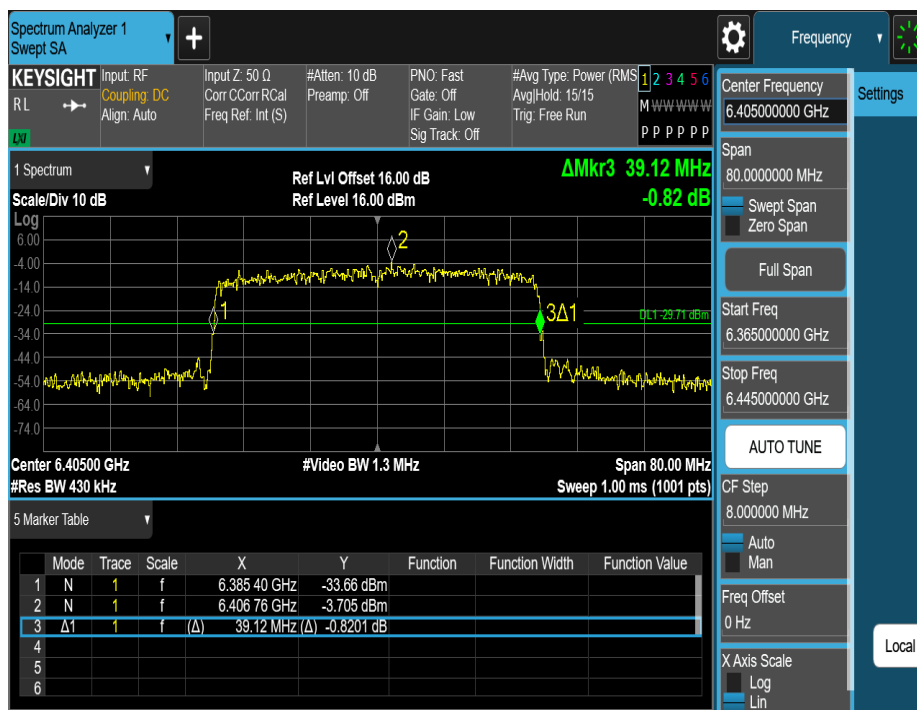




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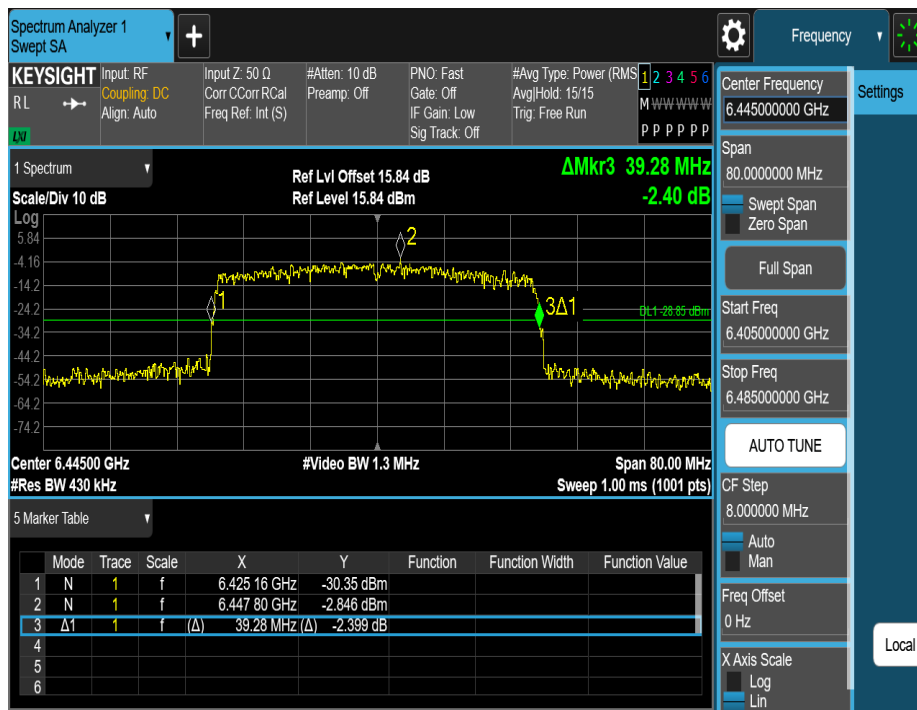
### 11AX40MIMO\_Ant2\_6405



# 11AX40MIMO\_Ant1\_6445



# 11AX40MIMO\_Ant2\_6445



### 11AX40MIMO\_Ant1\_6485



### 11AX40MIMO\_Ant2\_6485



### 11AX40MIMO\_Ant1\_6525



### 11AX40MIMO\_Ant2\_6525



### 11AX40MIMO\_Ant1\_6565



### 11AX40MIMO\_Ant2\_6565



### 11AX40MIMO\_Ant1\_6685



### 11AX40MIMO\_Ant2\_6685



# 11AX40MIMO\_Ant1\_6845



# 11AX40MIMO\_Ant2\_6845



### 11AX40MIMO\_Ant1\_6885



### 11AX40MIMO\_Ant2\_6885

