









## FCC AND ISED CERTIFICATION TEST REPORT

<b>Applicant:</b>	Guangzhou Shikun Electronics Co., Ltd
<b>Address:</b>	NO.6 Liankun Road, Huangpu District, Guangzhou, China
<b>Manufacturer:</b>	Guangzhou Shikun Electronics Co., Ltd
<b>Address:</b>	NO.6 Liankun Road, Huangpu District, Guangzhou, China
<b>Product Description:</b>	IEEE 802.11b/g/n/a/ac/ax 2T2R USB WiFi Module Integrated BT 2.1+EDR/4.2/5.2
<b>Brand Name:</b>	NA
<b>Tested Model:</b>	SKO.WB920TU.3
<b>FCC ID:</b>	2AR82-SKOWB920TU3
<b>IC:</b>	24628-SKOWB920TU3
<b>Report No.:</b>	JCF231017201-003
<b>Received Date:</b>	Oct. 17, 2023
<b>Tested Date:</b>	Oct. 17, 2023 ~ Nov. 07, 2023
<b>Issued Date:</b>	Nov. 07, 2023
<b>Test Standards:</b>	FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 3 August 2023
<b>Test Procedure:</b>	ANSI C63.10:2013, RSS-Gen Issue 5 A2, Feb. 2021
<b>Test Result:</b>	Pass
<b>Prepared By:</b>	
 <u>Roger Li/Engineer</u>	
<b>Date:</b> Nov. 07, 2023 	
<b>Reviewed By:</b>	
 <u>Kennys Zhang/Engineer</u>	
<b>Date:</b> Nov. 07, 2023 	
<b>Approved By:</b>	
 <u>Talent Zhang/Engineer</u>	
<b>Date:</b> Nov. 07, 2023 	

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 07, 2023	Original Report	/

## Table of Contents

<b>1. Test Report Declare</b> .....	<b>5</b>
<b>2. Summary of Test Results</b> .....	<b>6</b>
<b>3. Test Laboratory</b> .....	<b>6</b>
<b>4. Equipment Under Test</b> .....	<b>7</b>
4.1. Description of EUT .....	7
4.2. Channel List .....	7
4.3. Test Channel Configuration .....	8
4.4. Test environment conditions .....	8
4.5. Description of Available Antennas .....	8
4.6. Description of Available Antennas .....	9
<b>5. Description of Test Setup</b> .....	<b>9</b>
5.1. Accessory .....	9
5.2. Support Equipment .....	9
5.3. Test Setup .....	10
5.4. Setup Diagram for Tests .....	10
<b>6. Measurement Uncertainty</b> .....	<b>10</b>
<b>7. Measuring Instrument and Software Used</b> .....	<b>10</b>
<b>8. On Time and Duty Cycle</b> .....	<b>12</b>
8.1. Block diagram of test setup .....	12
8.2. Limits .....	12
8.3. Procedure .....	12
8.4. Results .....	12
8.5. Original test data .....	14
<b>9. 6 dB DTS Bandwidth and 99 % Occupied Bandwidth</b> .....	<b>24</b>
9.1. Block diagram of test setup .....	24
9.2. Limits .....	24
9.3. Test Procedure .....	24
9.4. Results .....	25
9.5. Original test data .....	27
<b>10. Conducted Output Power</b> .....	<b>47</b>
10.1. Block diagram of test setup .....	47
10.2. Limits .....	47
10.3. Test Procedure .....	47
10.4. Results .....	47
<b>11. Power Spectral Density</b> .....	<b>49</b>
11.1. Block diagram of test setup .....	49
11.2. Limits .....	49
11.3. Test Procedure .....	49
11.4. Results .....	49
11.5. Original test data .....	51
<b>12. Conducted Band edge and Spurious Emissions</b> .....	<b>61</b>
12.1. Block diagram of test setup .....	61
12.2. Limits .....	61
12.3. Test Procedure .....	61
12.4. Test result .....	62
12.5. Original test data .....	64
<b>13. Radiated Emission</b> .....	<b>101</b>
13.1. Block diagram of test setup .....	101
13.2. Limit .....	102
13.3. Test Procedure .....	104
13.4. Results .....	107
13.5. Original test data .....	107

- 14. AC Power Line Conducted Emissions ..... 108**
  - 14.1. Block diagram of test setup ..... 108
  - 14.2. Limits ..... 108
  - 14.3. Test procedure ..... 108
  - 14.4. Test result ..... 109
- 15. Antenna Requirements ..... 110**
  - 15.1. Applicable Requirements ..... 110
  - 15.2. Result ..... 110
- APPENDIX A – Radiated Emission Below 1GHz Test Data ..... 111**
- APPENDIX B – Radiated Emission Above 1GHz Test Data .....113**

## 1. Test Report Declare

<b>Applicant:</b>	Guangzhou Shikun Electronics Co., Ltd
<b>Address:</b>	NO.6 Liankun Road, Huangpu District, Guangzhou, China
<b>Manufacturer:</b>	Guangzhou Shikun Electronics Co., Ltd
<b>Address:</b>	NO.6 Liankun Road, Huangpu District, Guangzhou, China
<b>Product Name:</b>	IEEE 802.11b/g/n/a/ac/ax 2T2R USB WiFi Module Integrated BT 2.1+EDR/4.2/5.2
<b>Brand Name:</b>	NA
<b>Model Name:</b>	SKO.WB920TU.3
<b>Difference Description:</b>	NA

### We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

## 2. Summary of Test Results

Summary of Test Results			
Clause	Test Items	FCC/ISED Rules	Test Results
1	6dB Bandwidth and 99 % Occupied Bandwidth	FCC Part 15.247 (a) (2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass
2	Peak Conducted Output Power	FCC Part 15.247 (b) (3) RSS-247 Clause 5.4 (d)	Pass
3	Power Spectral Density	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
4	Conducted Bandedge and Spurious Emission	FCC Part 15.247 (d) RSS-247 Clause 5.5	Pass
5	Radiated Bandedge and Spurious Emission	FCC Part 15.247 (d) FCC Part 15.209 FCC Part 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
6	Conducted Emission Test For AC Power Port	FCC Part 15.207 RSS-GEN Clause 8.8	NA
7	Antenna Requirement	FCC Part 15.203 RSS-GEN Clause 6.8	Pass

## 3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.192, Kezhu Road, Huangpu District, Guangzhou, Guangdong, China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.01

FCC Designation Number: CN1331. Test Firm Registration Number: 360543

IC Test Firm Registration Number: 28796

Conformity Assessment Body identifier: CN0138

## 4. Equipment Under Test

### 4.1. Description of EUT

<b>EUT Name:</b>	IEEE 802.11b/g/n/a/ac/ax 2T2R USB WiFi Module Integrated BT 2.1+EDR/4.2/5.2
<b>Model Number:</b>	SKO.WB920TU.3
<b>EUT Function Description:</b>	Please refer to user manual of this device
<b>Power Supply:</b>	DC 5V+/-0.3
<b>Hardware Version:</b>	NA
<b>Software Version:</b>	NA
<b>Radio Shrapnelation:</b>	IEEE802.11b/g/n/ax
<b>Operation Frequency:</b>	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz IEEE 802.11ax HE20: 2412MHz—2462MHz IEEE 802.11ax HE40: 2422MHz—2452MHz
<b>Modulation:</b>	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n (HT20/40): OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax (HE20/40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
<b>Data Rate:</b>	IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130.0, 144.4Mbps IEEE 802.11n HT40: 30.0, 60.0, 90.0, 120.0, 180.0, 240.0, 270.0, 300.0 Mbps IEEE 802.11ax HE20: 17.2, 34.4, 51.6, 68.8, 103.2, 137.6, 154.8, 172.1, 206.5, 229.4, 258.1, 286.8Mbps IEEE 802.11ax HE40: 34.4, 51.6, 68.8, 103.2, 137.6, 206.5, 275.3, 309.7, 344.1, 412.9, 458.8, 516.2, 573.5Mbps
<b>Antenna Type:</b>	Shrapnel Antenna0, MAX. Gain: 2.30 dBi Shrapnel Antenna1, MAX. Gain: 4.93 dBi

Note 1: EUT is the ab. of equipment under test.

Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

### 4.2. Channel List

Channel List for 802.11b/g/n/ax (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

Channel List for 802.11n/ax (40 MHz)					
Channel	Frequency (MHz)	Channel	Frequency(MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452

4	2427	7	2442	/	/
5	2432	8	2447	/	/

### 4.3. Test Channel Configuration

Tested mode, channel and rand data rate information			
Mode	Data rate (Mbps) (see Note)	Channel	Frequency (MHz)
802.11b	1MHz	Low: CH1	2412
	1MHz	Middle: CH6	2437
	1MHz	High: CH11	2462
802.11g	6 MHz	Low: CH1	2412
	6 MHz	Middle: CH6	2437
	6 MHz	High: CH11	2462
802.11n HT20	MCS0	Low: CH1	2412
	MCS0	Middle: CH6	2437
	MCS0	High: CH11	2462
802.11n HT40	MCS0	Low: CH3	2422
	MCS0	Middle: CH6	2437
	MCS0	High: CH9	2452
802.11ax HE20	MCS0	Low: CH1	2412
	MCS0	Middle: CH6	2437
	MCS0	High: CH11	2462
802.11ax HE40	MCS0	Low: CH3	2422
	MCS0	Middle: CH6	2437
	MCS0	High: CH9	2452

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

### 4.4. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

### 4.5. Description of Available Antennas

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software		MT7902A QA		
Modulation Mode	Transmit Antenna Number	Test Software Setting Value		
		ANT0	ANT1	Channel
802.11b	2	9	5	CH1
		9	5	CH6
		9	5	CH11
802.11g	2	5	3	CH1



		5	3	CH6
		5	3	CH11
802.11HT20	2	0	0	CH1
		0	0	CH6
		0	0	CH11
		0	0	CH3
802.11n HT40	2	0	0	CH6
		0	0	CH9
		0	0	CH1
802.11ax HE20	2	0	0	CH6
		0	0	CH11
		0	0	CH3
802.11ax HE40	2	0	0	CH6
		0	0	CH9
		0	0	CH3

#### 4.6. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description
802.11b	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 0 and ANT1 can be used as transmitting/receiving antenna.
802.11g	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 0 and ANT1 can be used as transmitting/receiving antenna.
802.11n HT20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 0 and ANT1 can be used as transmitting/receiving antenna.
802.11n HT40	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 0 and ANT1 can be used as transmitting/receiving antenna.
802.11ax HE20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 0 and ANT1 can be used as transmitting/receiving antenna.
802.11ax HE40	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 0 and ANT1 can be used as transmitting/receiving antenna.
Note:		
1. Only 802.11n HT20/HT40 and 802.11ax HE20/HE40 support MIMO mode		

### 5. Description of Test Setup

#### 5.1. Accessory

Description of Accessories	Manufacturer	Model Number	Description	Remark
/	/	/	/	/

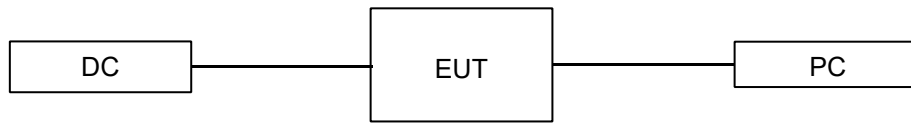
#### 5.2. Support Equipment

Equipment	Brand Name	Model Name	P/N
PC	Lenovo	T480	/

### 5.3. Test Setup

The EUT can work in Fixed Frequency mode.

### 5.4. Setup Diagram for Tests



## 6. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
AC Power Conduction emission	1.37 dB
All Radiated emissions	5.4dB
Conducted emissions	3.09 dB
Occupied Channel Bandwidth	1.1%
Conducted Output power	0.82dB
Power Spectral Density	0.82dB

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

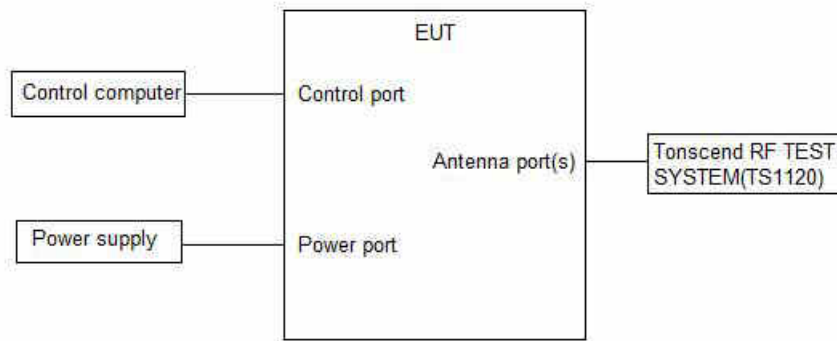
## 7. Measuring Instrument and Software Used

TS Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9030B	MY56320512	Sep. 12, 2023	Sep. 11, 2024
<input checked="" type="checkbox"/>	Vector Signal Generator	Keysight	N5182B	MY57300334	Sep. 12, 2023	Sep. 11, 2024
<input checked="" type="checkbox"/>	Signal Generator	Keysight	N5171B	MY57280639	Sep. 12, 2023	Sep. 11, 2024
<input checked="" type="checkbox"/>	DC POWER	Keysight	E342A	MY59020356	Jul. 14, 2023	Jul. 13, 2024
<input checked="" type="checkbox"/>	Incubator thermometer	GWS	EL-02JA	21107288	Sep. 12, 2023	Sep. 11, 2024
<input checked="" type="checkbox"/>	Control unit(Power sensor)	Tonscend	JS0806-2	/	Sep. 12, 2023	Sep. 11, 2024
<input checked="" type="checkbox"/>	Wideband radio communication tester	R&S	CMW500	163478	Jul. 11, 2023	Jul. 10, 2024
Software						
Used	Description	Manufacturer	Name		Version	
<input checked="" type="checkbox"/>	Test software	TS+	JS1120-3		V3.3.10	
RSE Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
<input checked="" type="checkbox"/>	EMI Receiver	R&S	ESW	101685	Jul. 12, 2023	Jul. 11, 2024

<input checked="" type="checkbox"/>	Bilog Antenna	Schwarzbeck	VULB 9163	01416	Mar. 21, 2023	Mar. 20, 2024
<input checked="" type="checkbox"/>	Horn Antenna 1	Schwarzbeck	BBHA 9120 D	02411	May. 25, 2023	May. 24, 2024
<input checked="" type="checkbox"/>	Horn Antenna 2	ETS	BBHA 9170	1090	Sep. 04, 2023	Sep. 03, 2024
<input checked="" type="checkbox"/>	loop-antenna	Schwarzbeck	FMZB 1513-60	00030	Jan.14,2023	Jan.13,2024
<input checked="" type="checkbox"/>	Signal Pre-Amplifier	Tonscend	TAP01018050	AP21C806122	Jul. 10, 2023	Jul. 09, 2024
<input checked="" type="checkbox"/>	Signal Pre-Amplifier	Tonscend	TAP9K3G32	AP20K806104	Jul. 10, 2023	Jul. 09, 2024
<input checked="" type="checkbox"/>	Signal Pre-Amplifier	ETS	3116C-PA	00217677	Aug. 24, 2023	Aug. 23, 2024
<input checked="" type="checkbox"/>	3m Fully-anechoic Chamber	ETS	RFD-100	/	Apr. 24, 2021	Apr. 23, 2024
<input checked="" type="checkbox"/>	Temperature & Humidity	Temperature	HTC-1	/	Nov. 25, 2022	Nov. 24, 2023
Software						
Used	Description	Manufacturer	Name		Version	
<input checked="" type="checkbox"/>	Test software	TS+	TS+		V3.0.0.4	

## 8. On Time and Duty Cycle

### 8.1. Block diagram of test setup



### 8.2. Limits

None; for reporting purposes only

### 8.3. Procedure

KDB 558074 Zero-Span Spectrum Analyzer Method

### 8.4. Results

Test Mode	Ant.	Freq. (MHz)	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)
11B	ANT0	2412	8.39	8.75	95.89
	ANT1	2412	8.39	8.75	95.89
	ANT0	2437	8.38	8.74	95.88
	ANT1	2437	8.39	8.76	95.78
	ANT0	2462	8.39	8.76	95.78
	ANT1	2462	8.39	8.75	95.89
11G	ANT0	2412	1.39	1.77	78.53
	ANT1	2412	1.39	1.77	78.53
	ANT0	2437	1.40	1.77	79.10
	ANT1	2437	1.39	1.77	78.53
	ANT0	2462	1.39	1.77	78.53
	ANT1	2462	1.39	1.77	78.53
11N20MIMO	ANT0	2412	1.29	1.65	78.18
	ANT1	2412	1.28	1.64	78.05
	ANT0	2437	1.29	2.61	49.43
	ANT1	2437	1.29	1.65	78.18
	ANT0	2462	1.39	1.77	78.53
	ANT1	2462	1.39	1.77	78.53
11N40MIMO	ANT0	2422	0.63	1.01	62.38
	ANT1	2422	0.64	1.02	62.75
	ANT0	2437	0.64	1.02	62.75
	ANT1	2437	0.63	1.01	62.38
	ANT0	2452	0.63	1.01	62.38
	ANT1	2452	0.65	1.01	64.36
11AX40MIMO	ANT0	2422	0.20	0.40	50.00
	ANT1	2422	0.20	0.40	50.00
	ANT0	2437	0.20	0.40	50.00
	ANT1	2437	0.20	0.40	50.00

	ANT0	2452	0.20	0.42	47.62
	ANT1	2452	0.20	0.40	50.00

Note: Duty Cycle Correction Factor =  $10\log(1/x)$ .

Where: x is Duty Cycle (Linear)

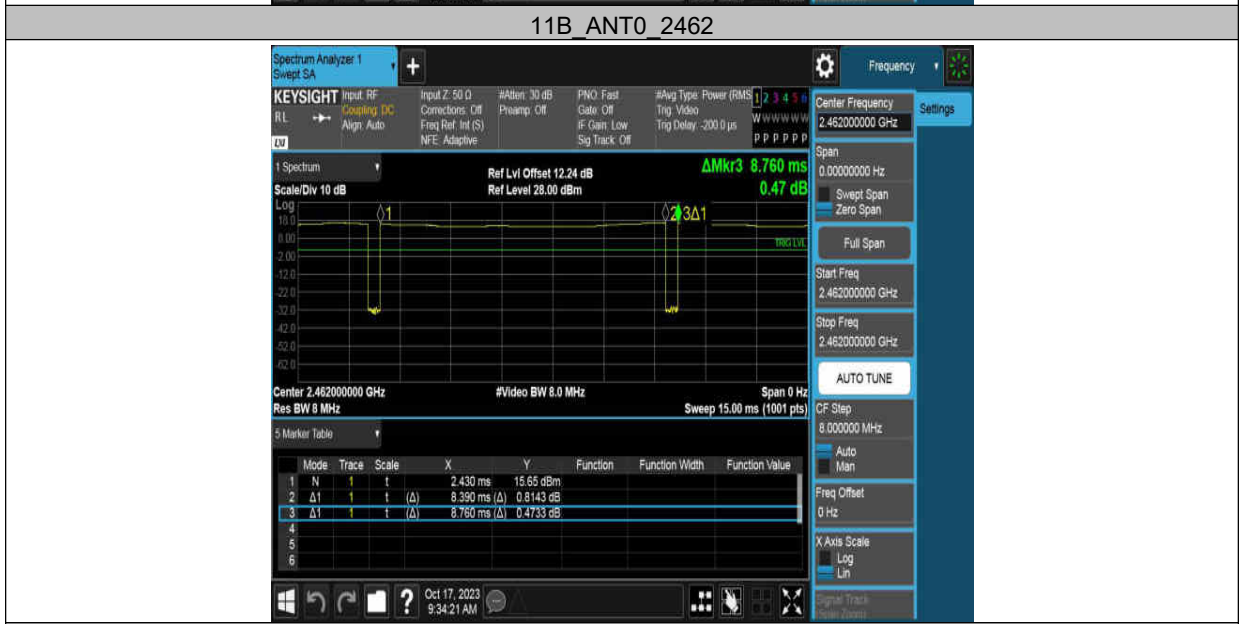
Where: T is On Time

If that calculated VBW is not available on the analyzer, then the next higher value should be used.

For mode 11b, the duty cycle is greater than 98 %, so it can set VBW to 10 Hz.

### 8.5. Original test data







11G\_ANT1\_2412

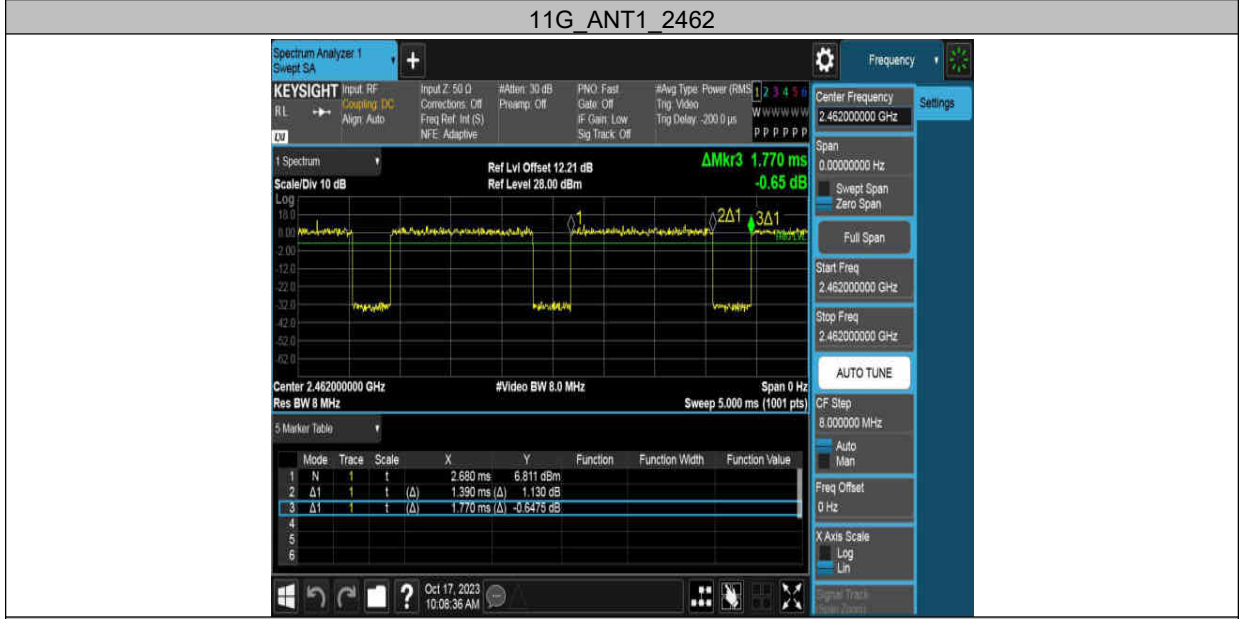
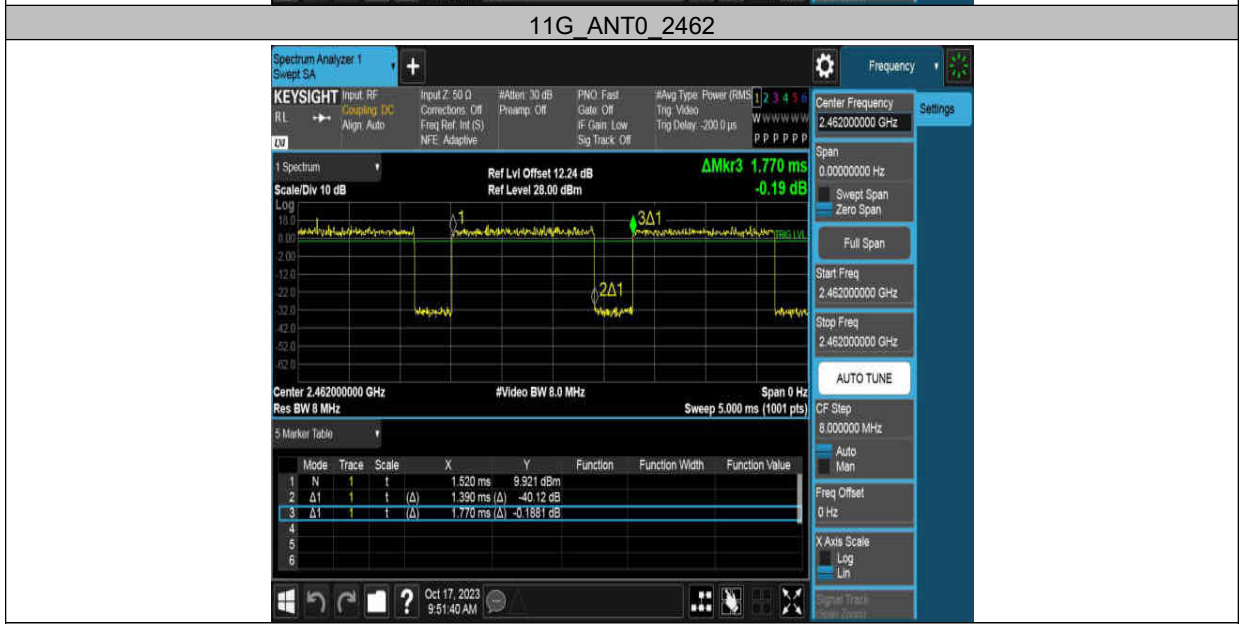


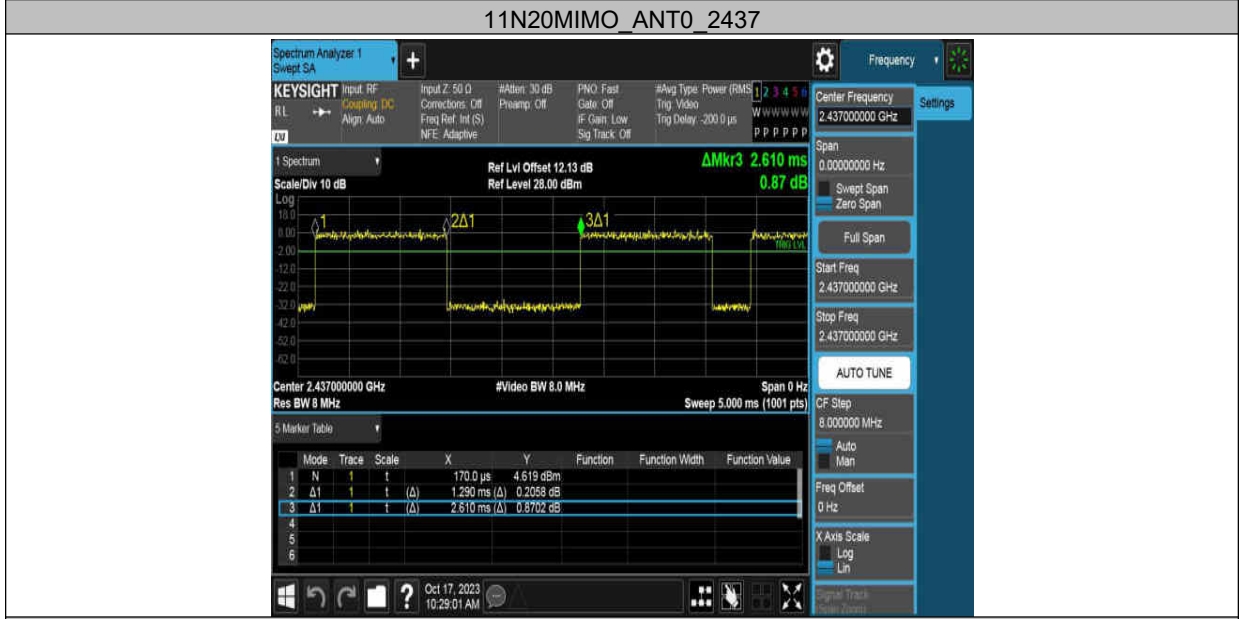
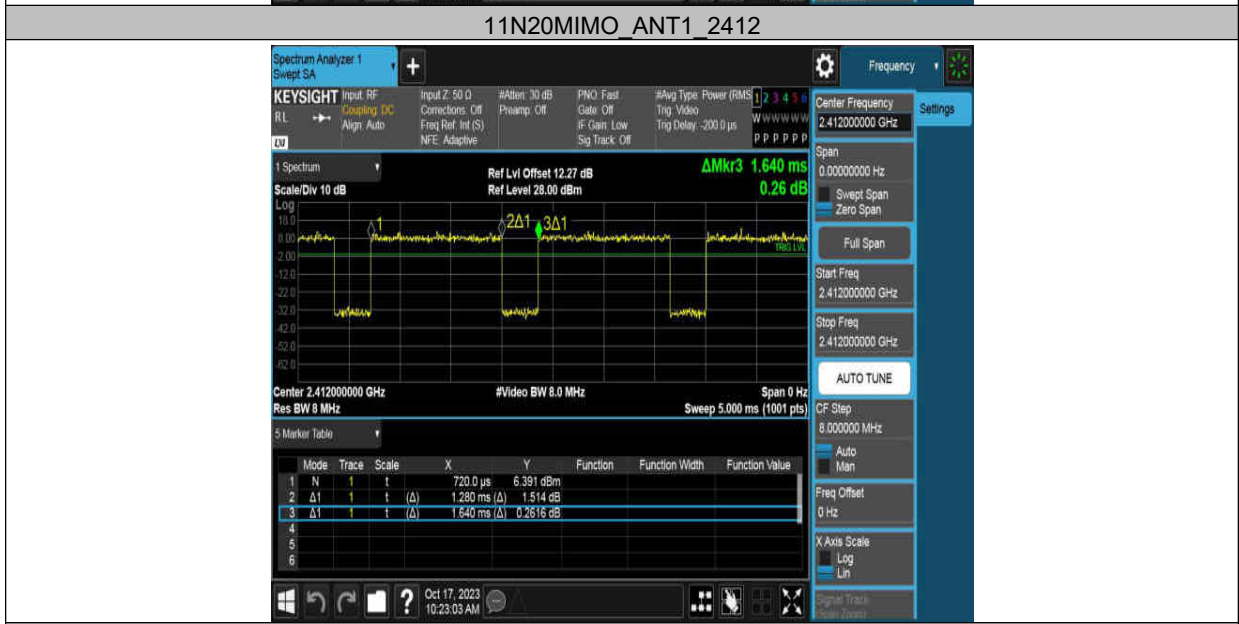
11G\_ANT0\_2437

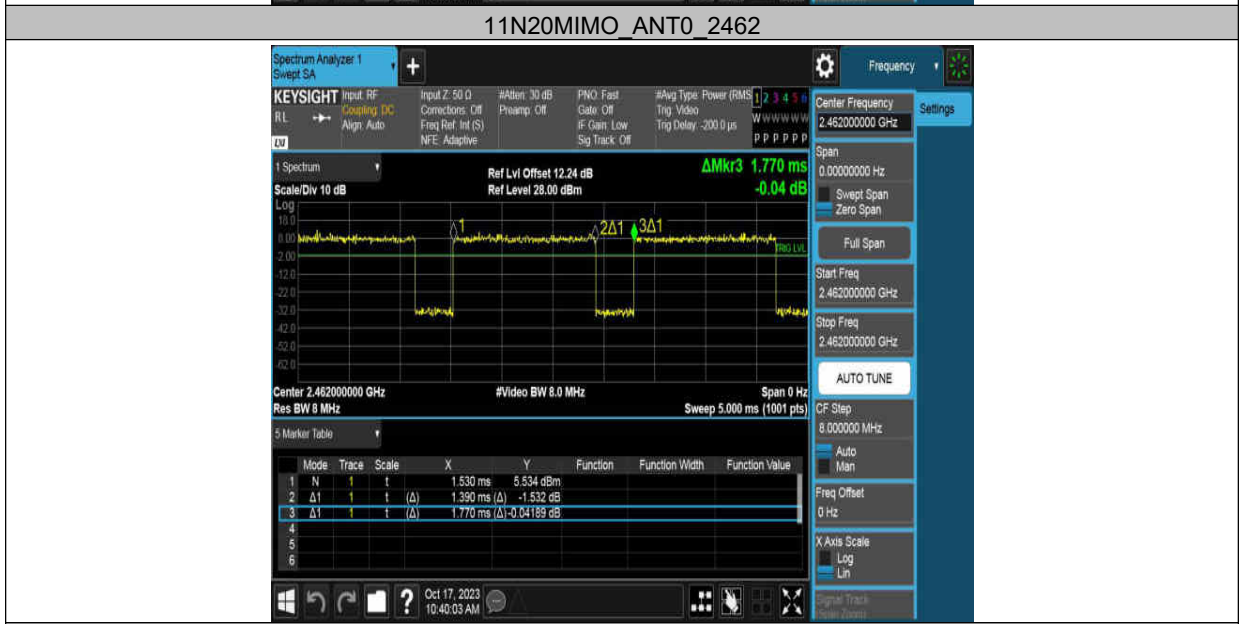


11G\_ANT1\_2437











11N40MIMO\_ANT1\_2422

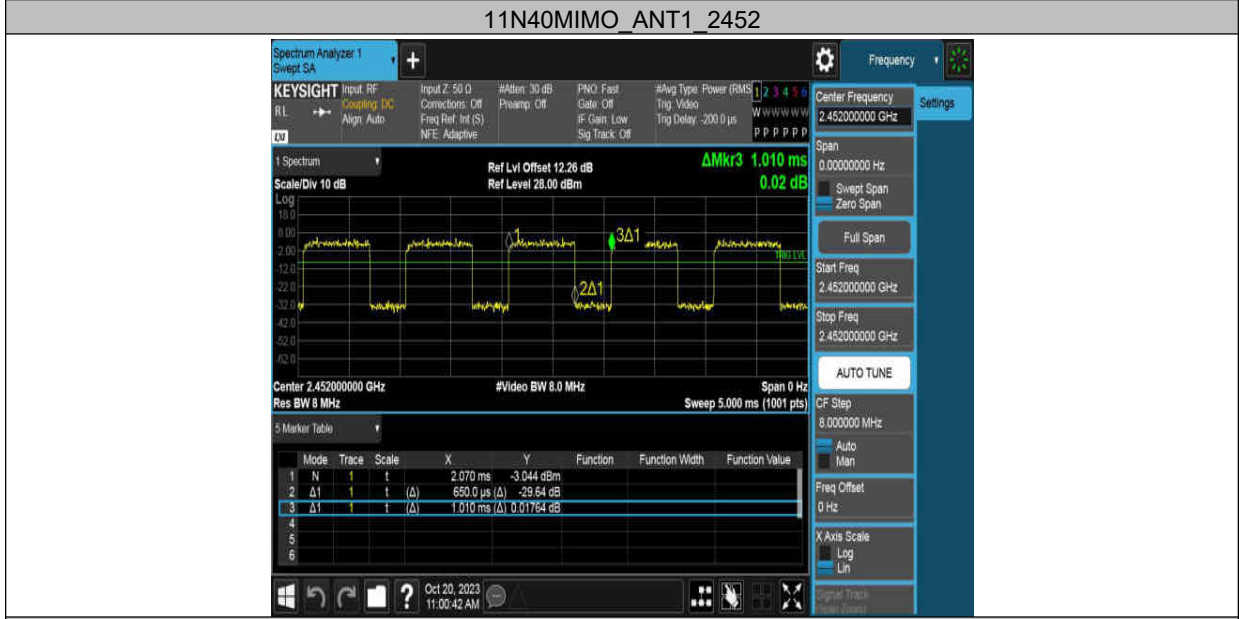
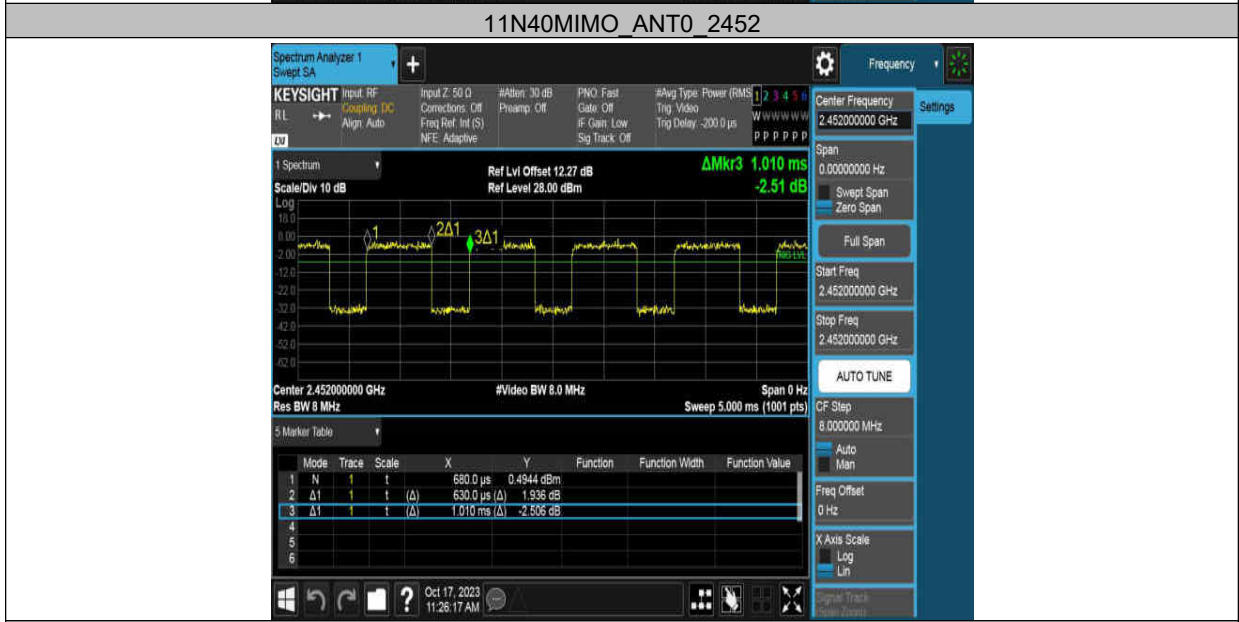


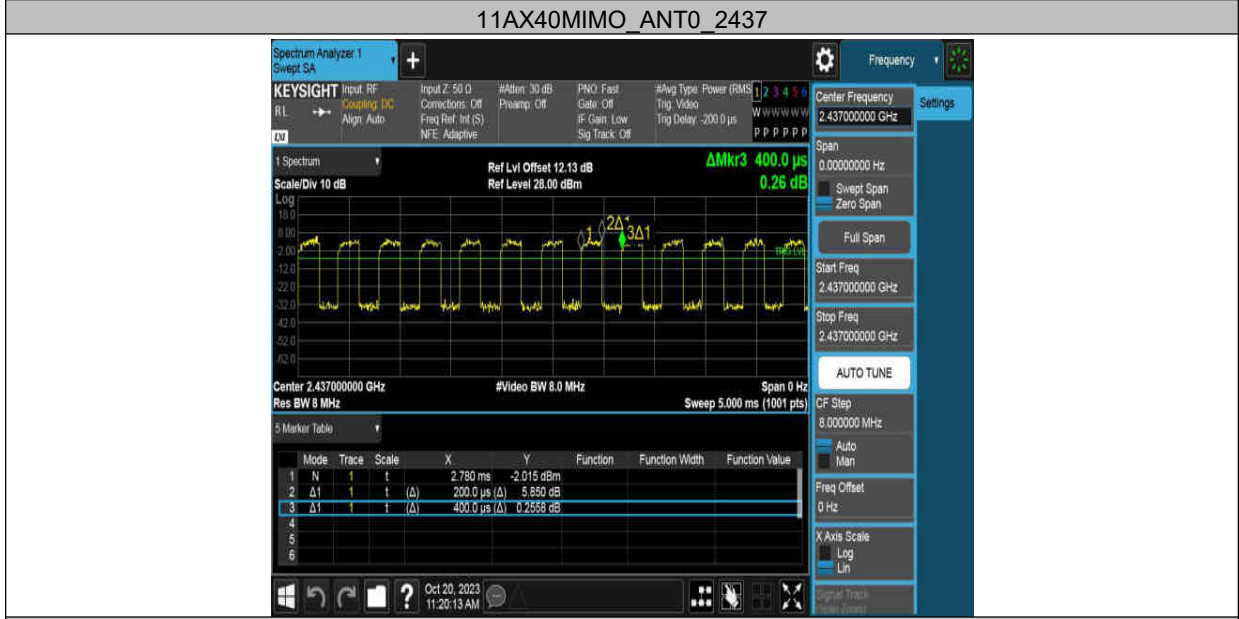
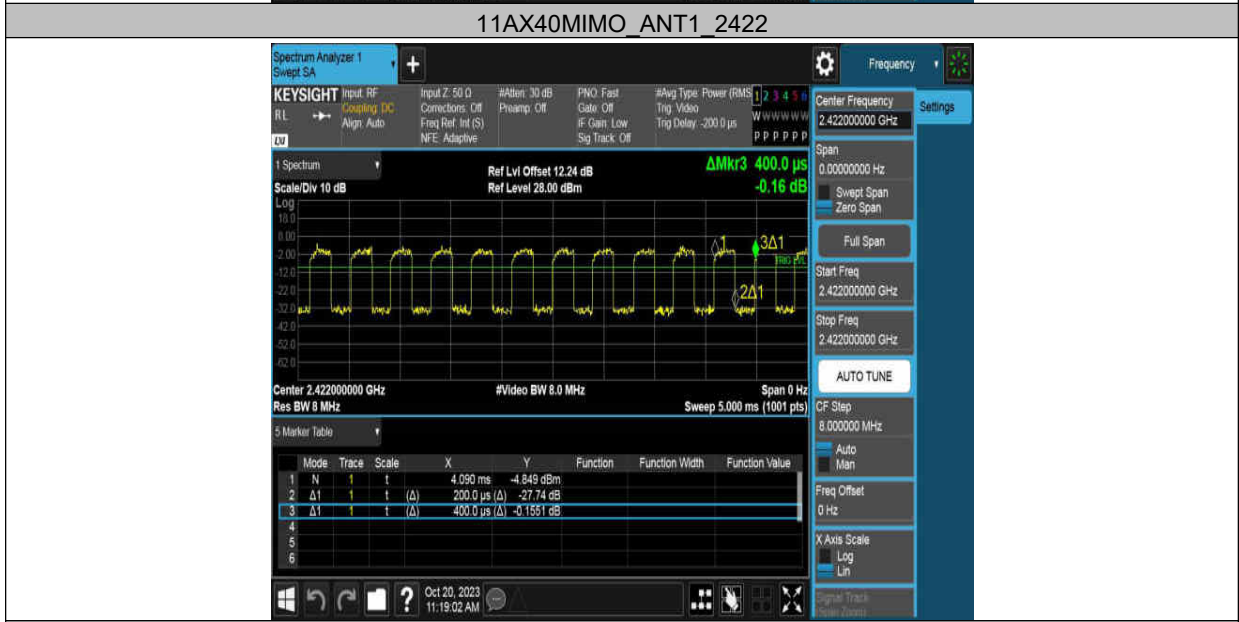
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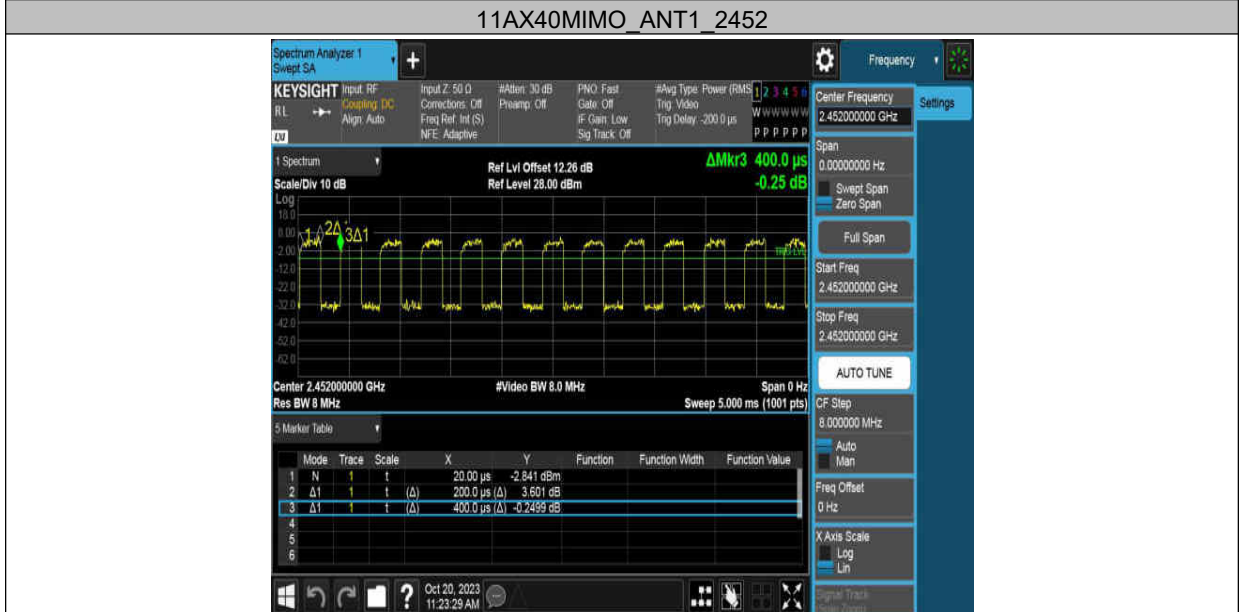
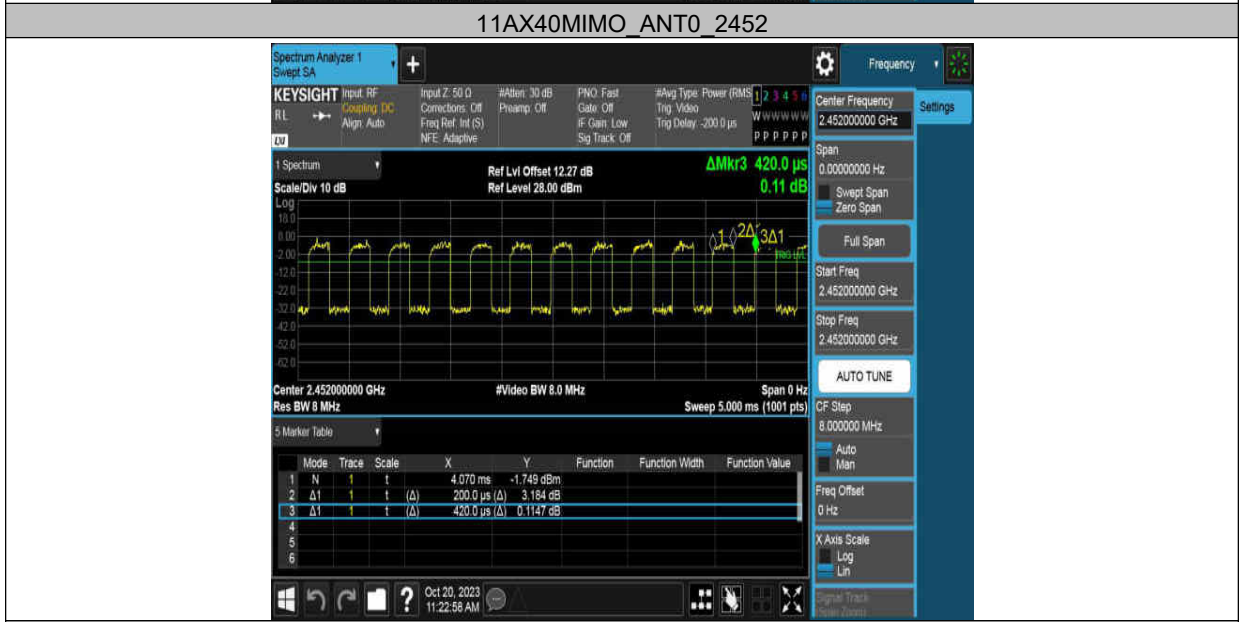


11N40MIMO\_ANT1\_2437









## 9. 6 dB DTS Bandwidth and 99 % Occupied Bandwidth

### 9.1. Block diagram of test setup

Same as section 8.1

### 9.2. Limits

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	$\geq 500$ kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

### 9.3. Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth :100 kHz For 99 % Occupied Bandwidth :1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth : $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and 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 and 99 % relative to the maximum level measured in the fundamental emission.



## 9.4. Results

6dB bandwidth:

Test Mode	Ant.	Freq. (MHz)	DTS BW (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
11B	ANT0	2412	7.560	2408.480	2416.040	0.5	PASS
	ANT1	2412	8.560	2407.480	2416.040	0.5	PASS
	ANT0	2437	7.040	2433.480	2440.520	0.5	PASS
	ANT1	2437	7.560	2433.960	2441.520	0.5	PASS
	ANT0	2462	7.560	2458.480	2466.040	0.5	PASS
	ANT1	2462	7.560	2458.000	2465.560	0.5	PASS
11G	ANT0	2412	16.280	2403.880	2420.160	0.5	PASS
	ANT1	2412	16.320	2403.840	2420.160	0.5	PASS
	ANT0	2437	16.320	2428.880	2445.200	0.5	PASS
	ANT1	2437	16.080	2429.120	2445.200	0.5	PASS
	ANT0	2462	15.760	2454.160	2469.920	0.5	PASS
	ANT1	2462	16.080	2453.840	2469.920	0.5	PASS
11N20MIMO	ANT0	2412	17.040	2403.520	2420.560	0.5	PASS
	ANT1	2412	16.920	2403.240	2420.160	0.5	PASS
	ANT0	2437	16.880	2428.520	2445.400	0.5	PASS
	ANT1	2437	16.320	2429.480	2445.800	0.5	PASS
	ANT0	2462	16.000	2454.160	2470.160	0.5	PASS
	ANT1	2462	16.320	2453.840	2470.160	0.5	PASS
11N40MIMO	ANT0	2422	35.120	2404.480	2439.600	0.5	PASS
	ANT1	2422	35.680	2404.480	2440.160	0.5	PASS
	ANT0	2437	33.200	2421.960	2455.160	0.5	PASS
	ANT1	2437	31.280	2423.240	2454.520	0.5	PASS
	ANT0	2452	35.120	2434.480	2469.600	0.5	PASS
	ANT1	2452	35.120	2434.480	2469.600	0.5	PASS
11AX40MIMO	ANT0	2422	36.560	2403.200	2439.760	0.5	PASS
	ANT1	2422	37.840	2403.280	2441.120	0.5	PASS
	ANT0	2437	36.400	2418.200	2454.600	0.5	PASS
	ANT1	2437	36.240	2419.560	2455.800	0.5	PASS
	ANT0	2452	36.880	2433.280	2470.160	0.5	PASS
	ANT1	2452	35.040	2434.480	2469.520	0.5	PASS

99 % bandwidth:

Test Mode	Ant.	Channel Freq. (MHz)	OCB (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
11B	ANT0	2412	12.689	2405.6628	2418.3518	---	---
	ANT1	2412	12.839	2405.5078	2418.3468	---	---
	ANT0	2437	12.672	2430.6886	2443.3606	---	---
	ANT1	2437	12.660	2430.8862	2443.5462	---	---
	ANT0	2462	12.702	2455.6625	2468.3645	---	---
	ANT1	2462	12.688	2455.4859	2468.1739	---	---
11G	ANT0	2412	17.372	2403.2323	2420.6043	---	---
	ANT1	2412	17.626	2402.9989	2420.6249	---	---
	ANT0	2437	17.338	2428.3151	2445.6531	---	---
	ANT1	2437	17.362	2428.5658	2445.9278	---	---
	ANT0	2462	17.378	2453.2999	2470.6779	---	---
	ANT1	2462	17.399	2453.0520	2470.4510	---	---
11N20MIMO	ANT0	2412	18.558	2402.7193	2421.2773	---	---
	ANT1	2412	18.354	2402.7072	2421.0612	---	---
	ANT0	2437	18.394	2427.8146	2446.2086	---	---
	ANT1	2437	18.133	2428.1192	2446.2522	---	---
	ANT0	2462	17.369	2453.3029	2470.6719	---	---
	ANT1	2462	17.064	2453.3471	2470.4111	---	---
11N40MIMO	ANT0	2422	36.080	2403.9849	2440.0649	---	---
	ANT1	2422	36.363	2403.9170	2440.2800	---	---
	ANT0	2437	36.072	2419.2923	2455.3643	---	---
	ANT1	2437	35.961	2419.0514	2455.0124	---	---
	ANT0	2452	35.967	2434.0665	2470.0335	---	---
	ANT1	2452	36.139	2433.9011	2470.0401	---	---
11AX40MIMO	ANT0	2422	37.631	2403.2260	2440.8570	---	---
	ANT1	2422	37.969	2403.0759	2441.0449	---	---
	ANT0	2437	37.597	2418.1624	2455.7594	---	---
	ANT1	2437	37.738	2418.1983	2455.9363	---	---
	ANT0	2452	37.709	2433.1487	2470.8577	---	---
	ANT1	2452	37.560	2433.2062	2470.7662	---	---

### 9.5. Original test data

6dB bandwidth:



11B\_ANT1\_2437



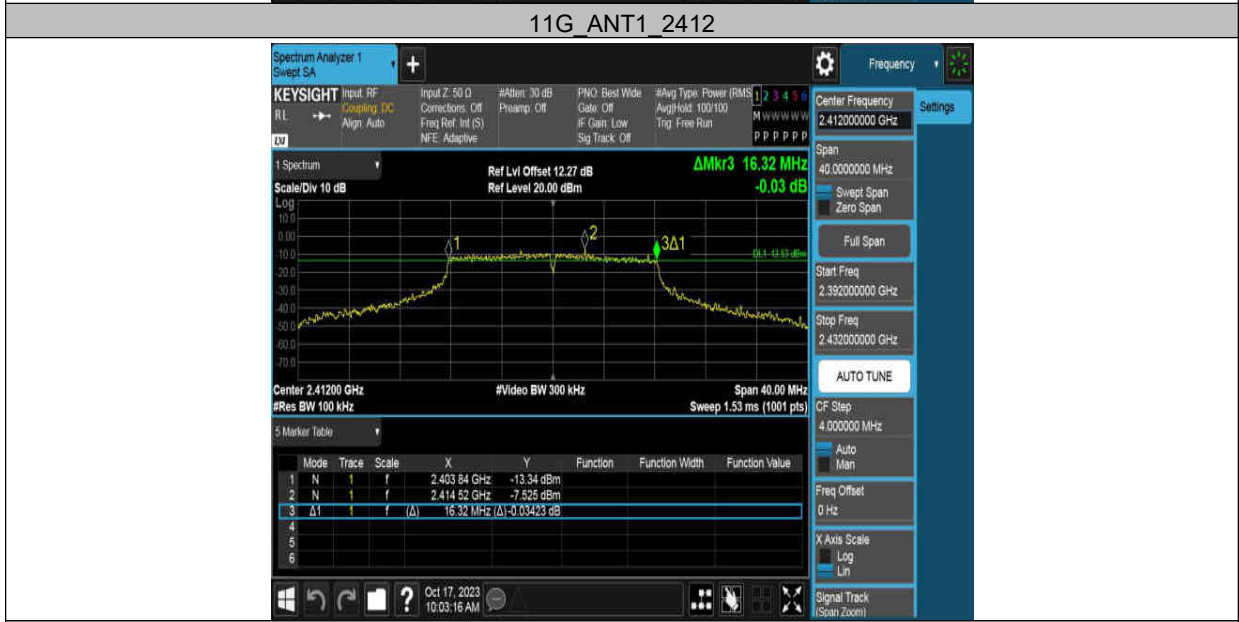
11B\_ANT0\_2462



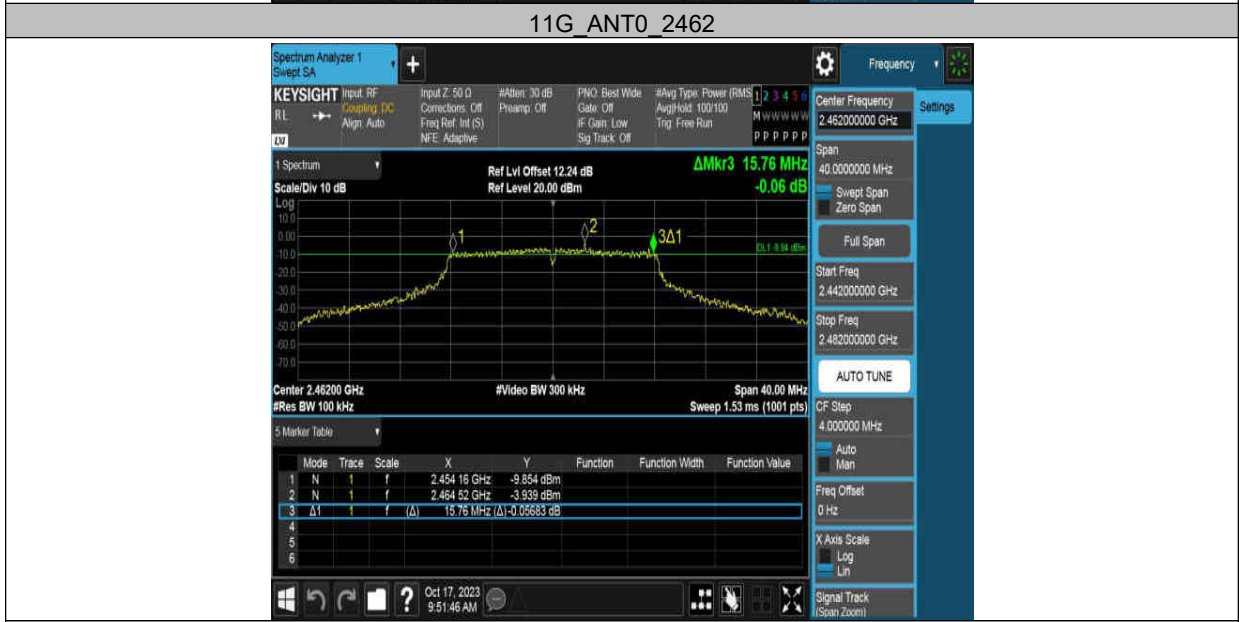
11B\_ANT1\_2462

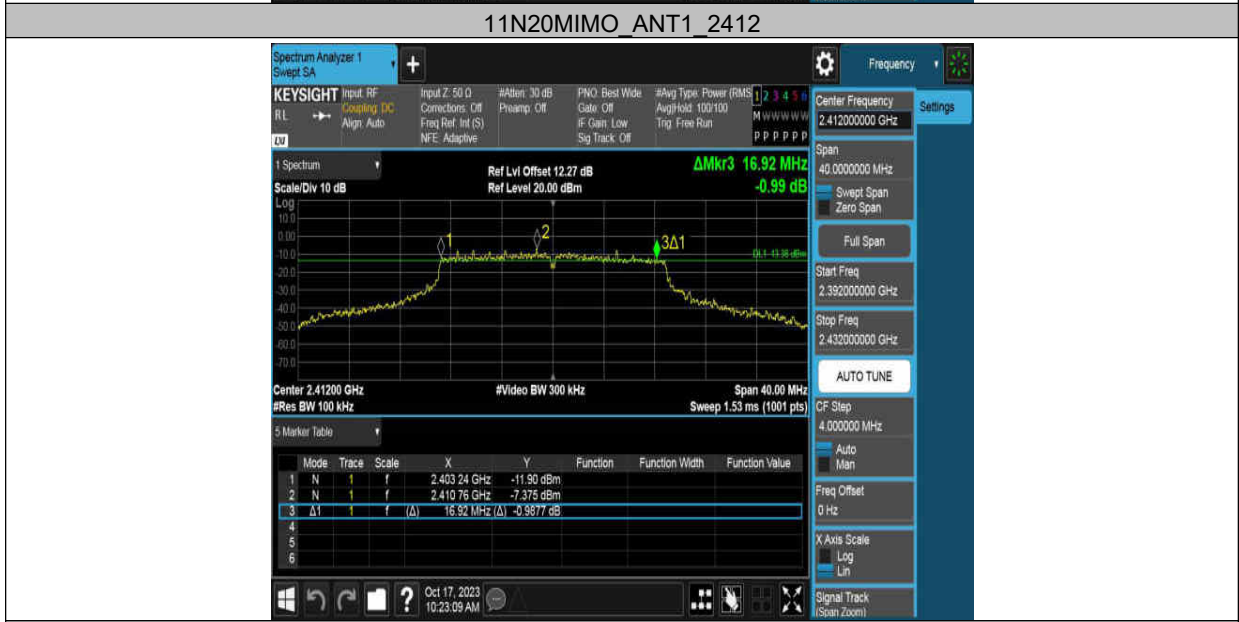


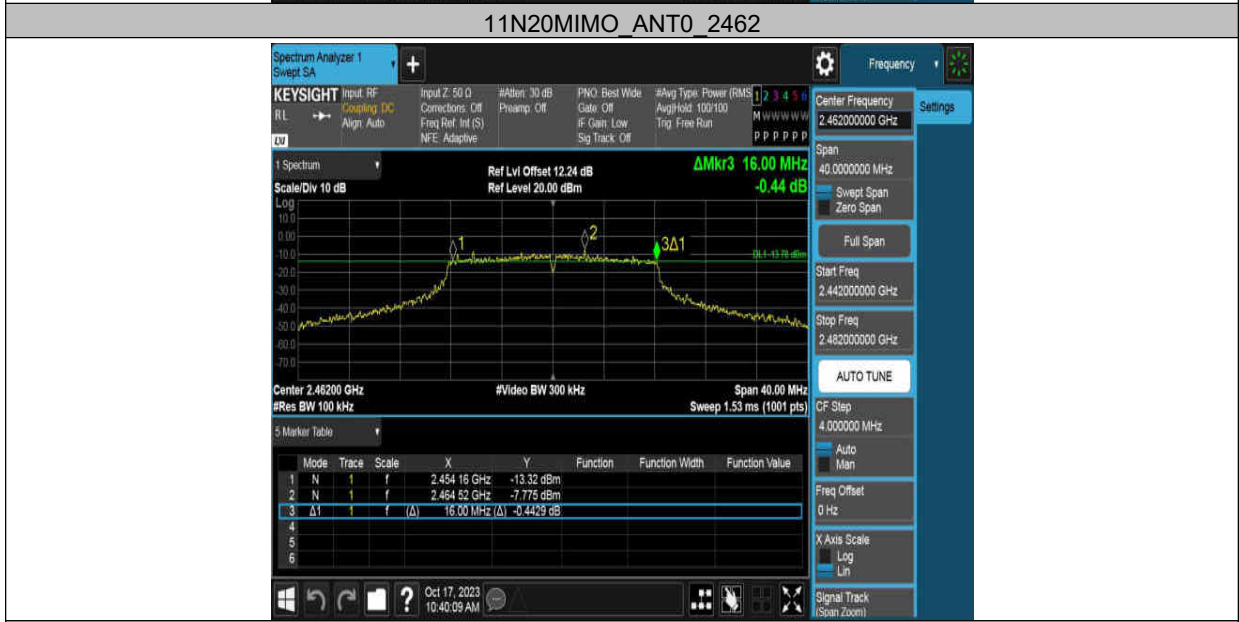
11G\_ANT0\_2412



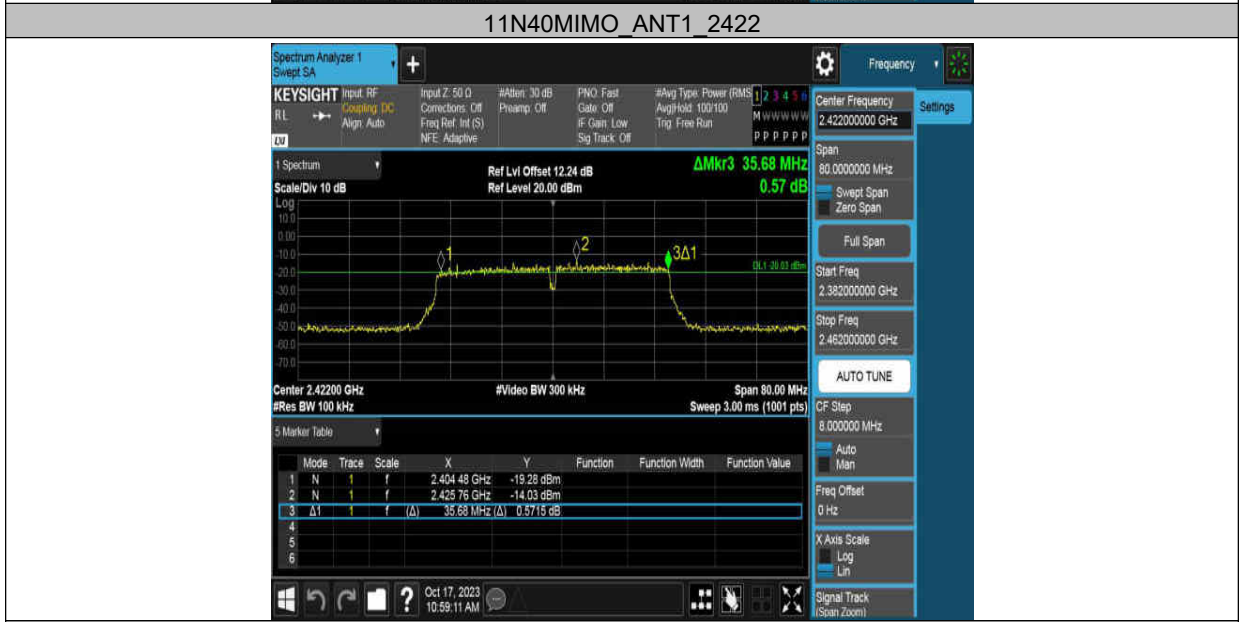


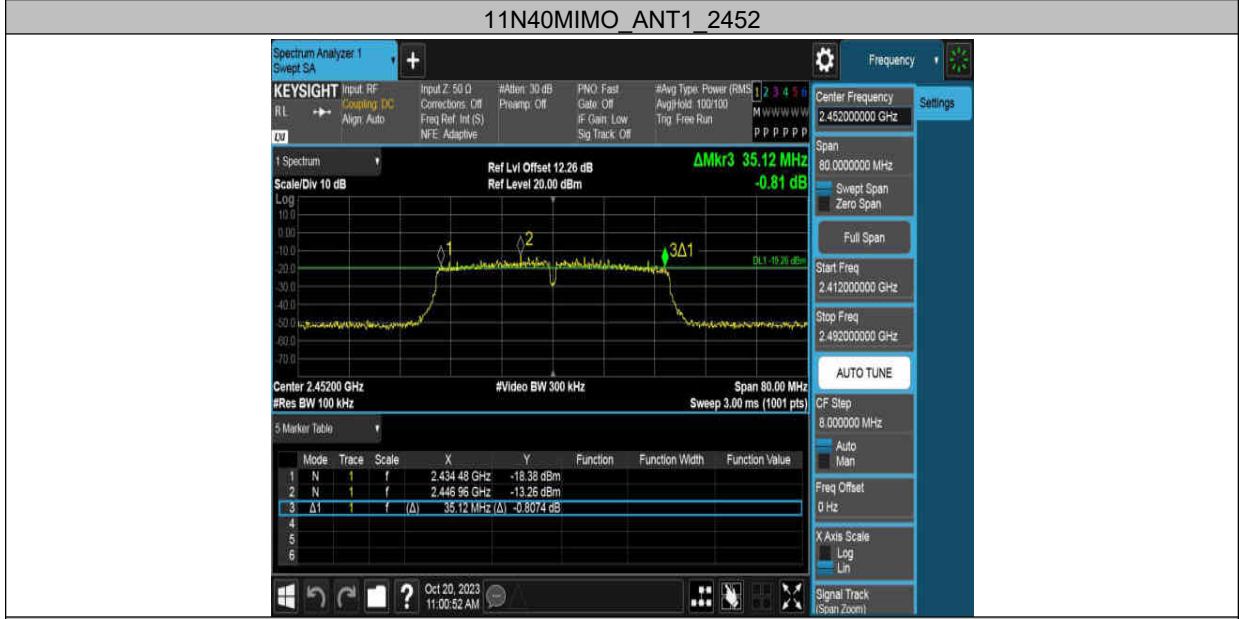
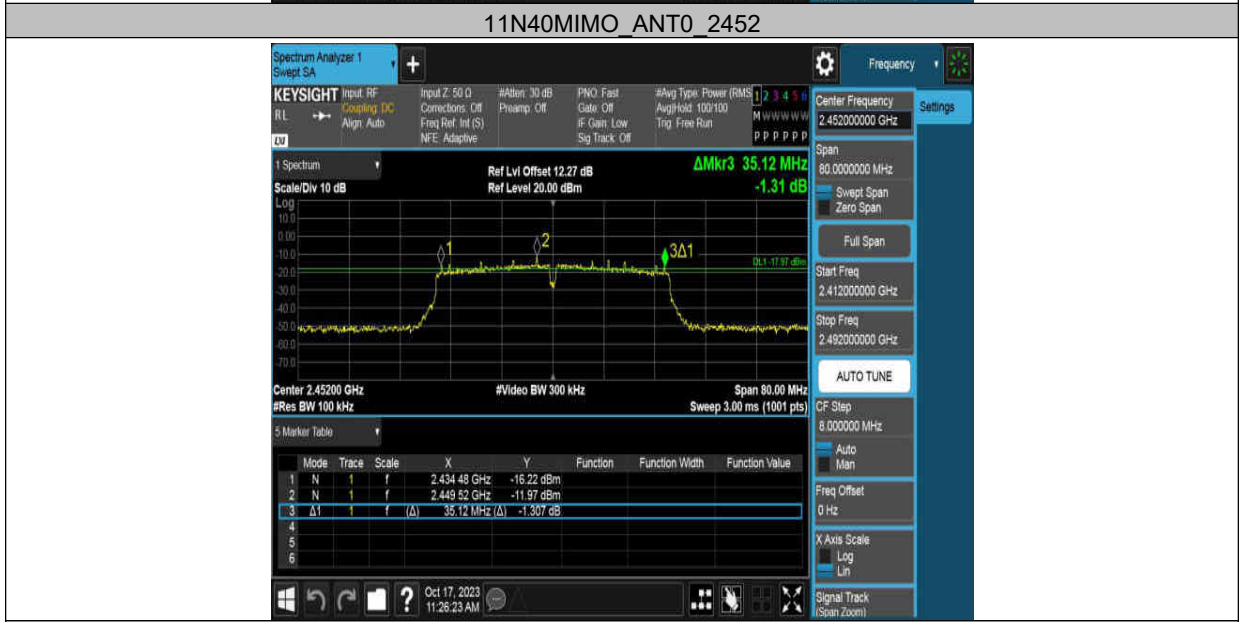


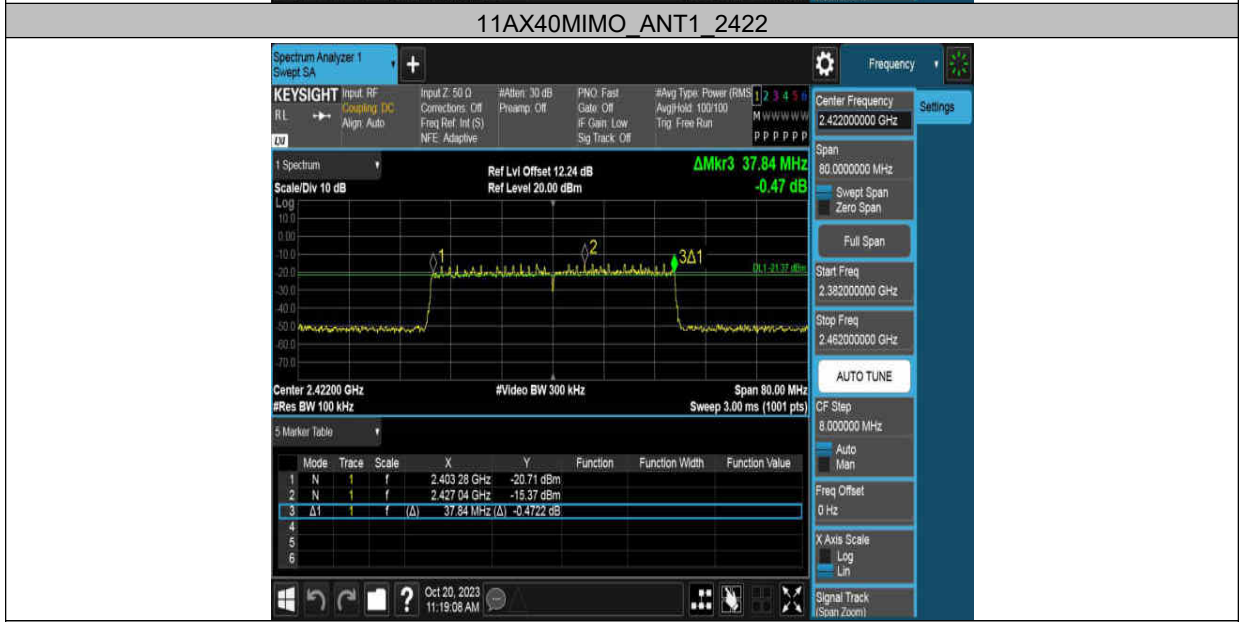














11AX40MIMO\_ANT0\_2452

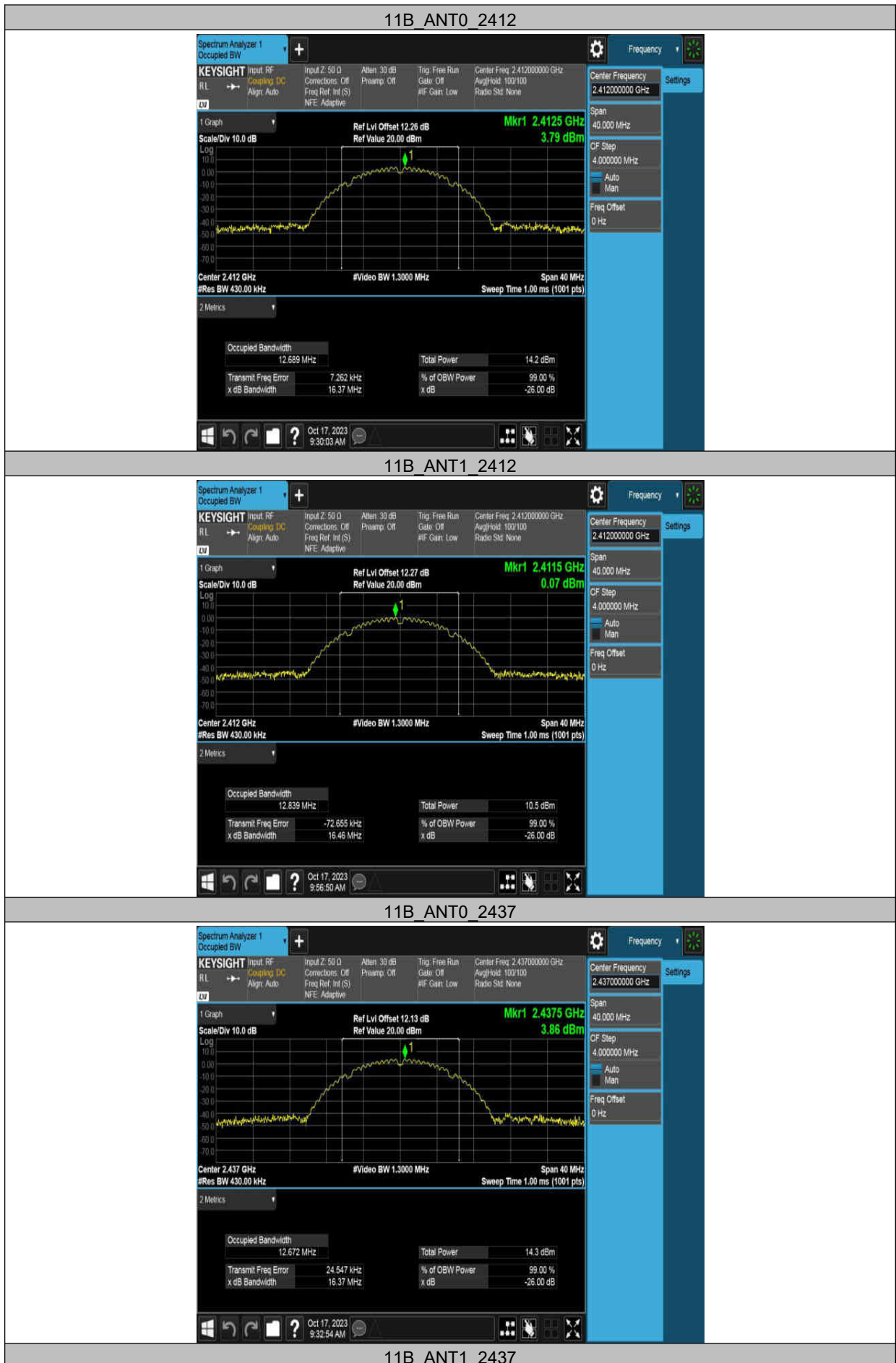


11AX40MIMO\_ANT1\_2452





99 % bandwidth:

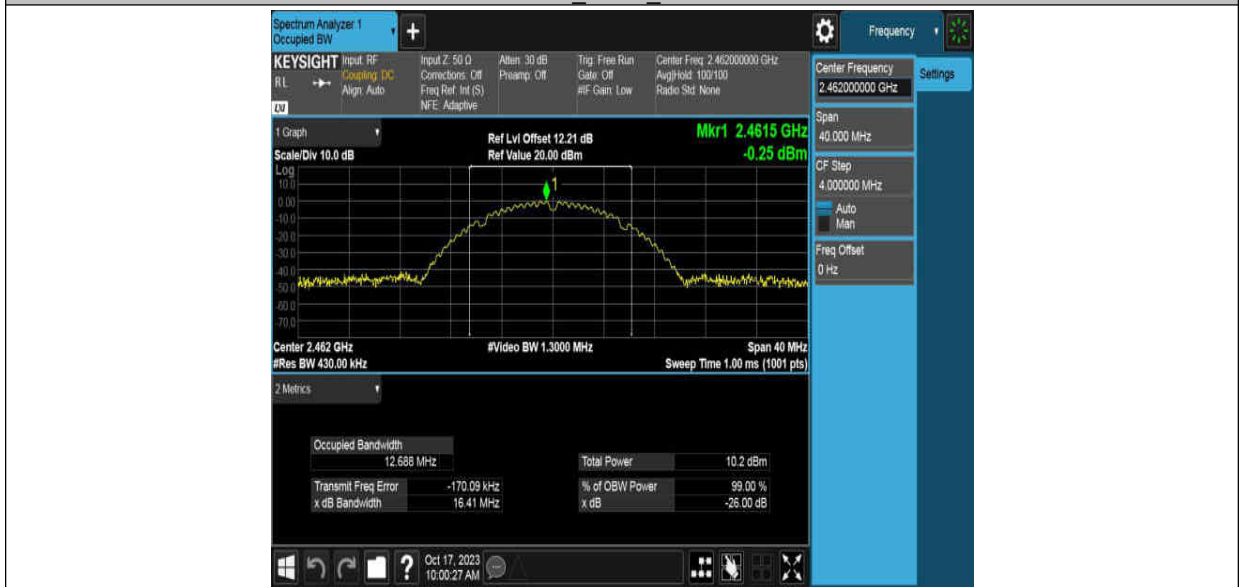




11B\_ANT0\_2462



11B\_ANT1\_2462



11G\_ANT0\_2412

