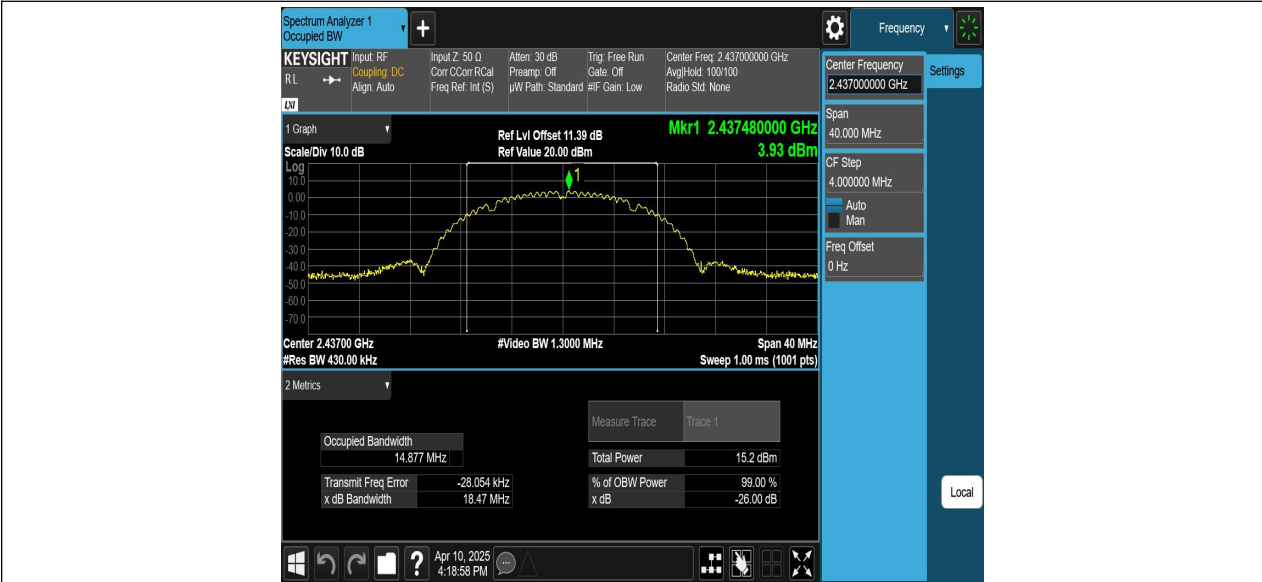




99 % bandwidth:





11B_Ant1_2462

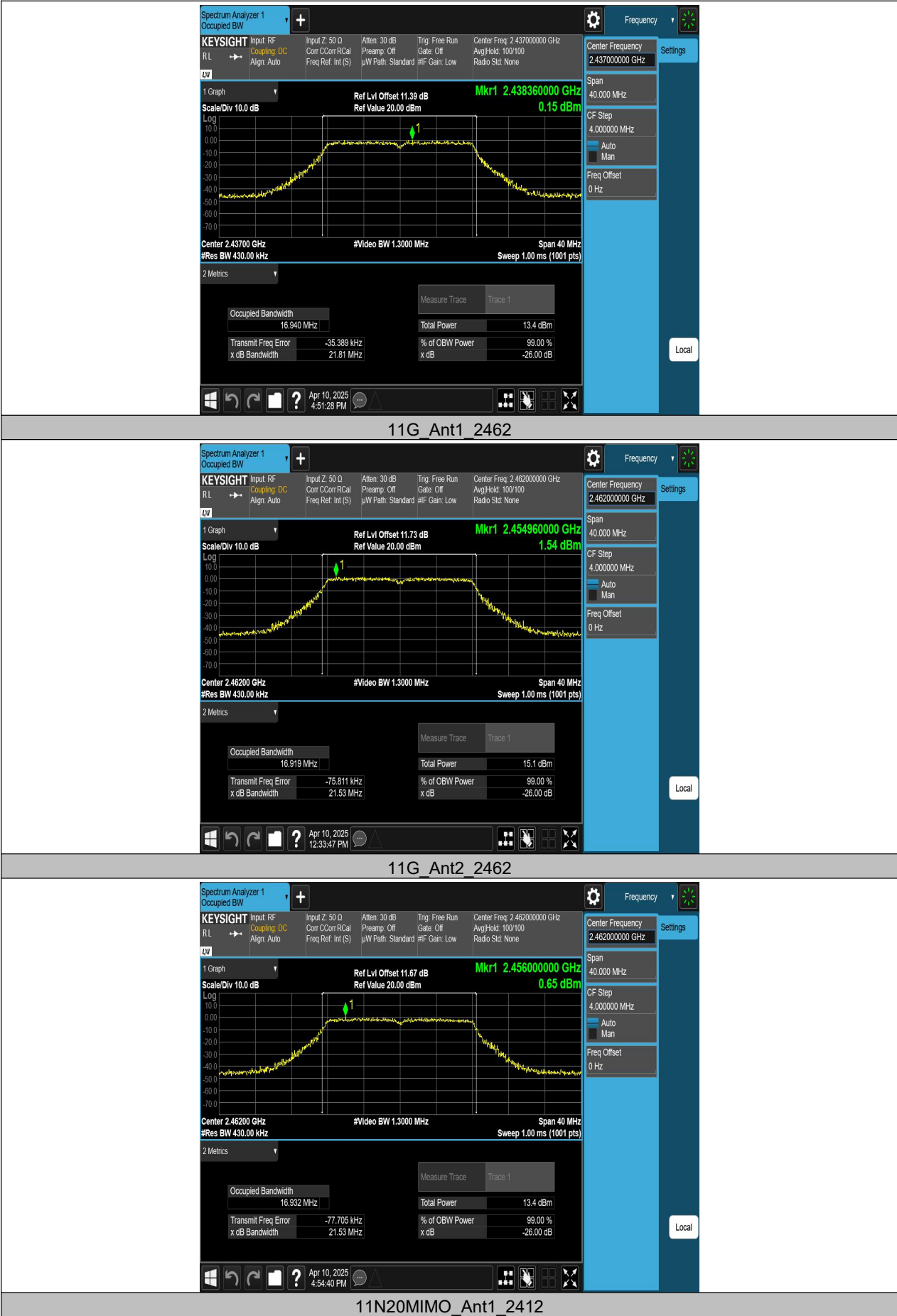


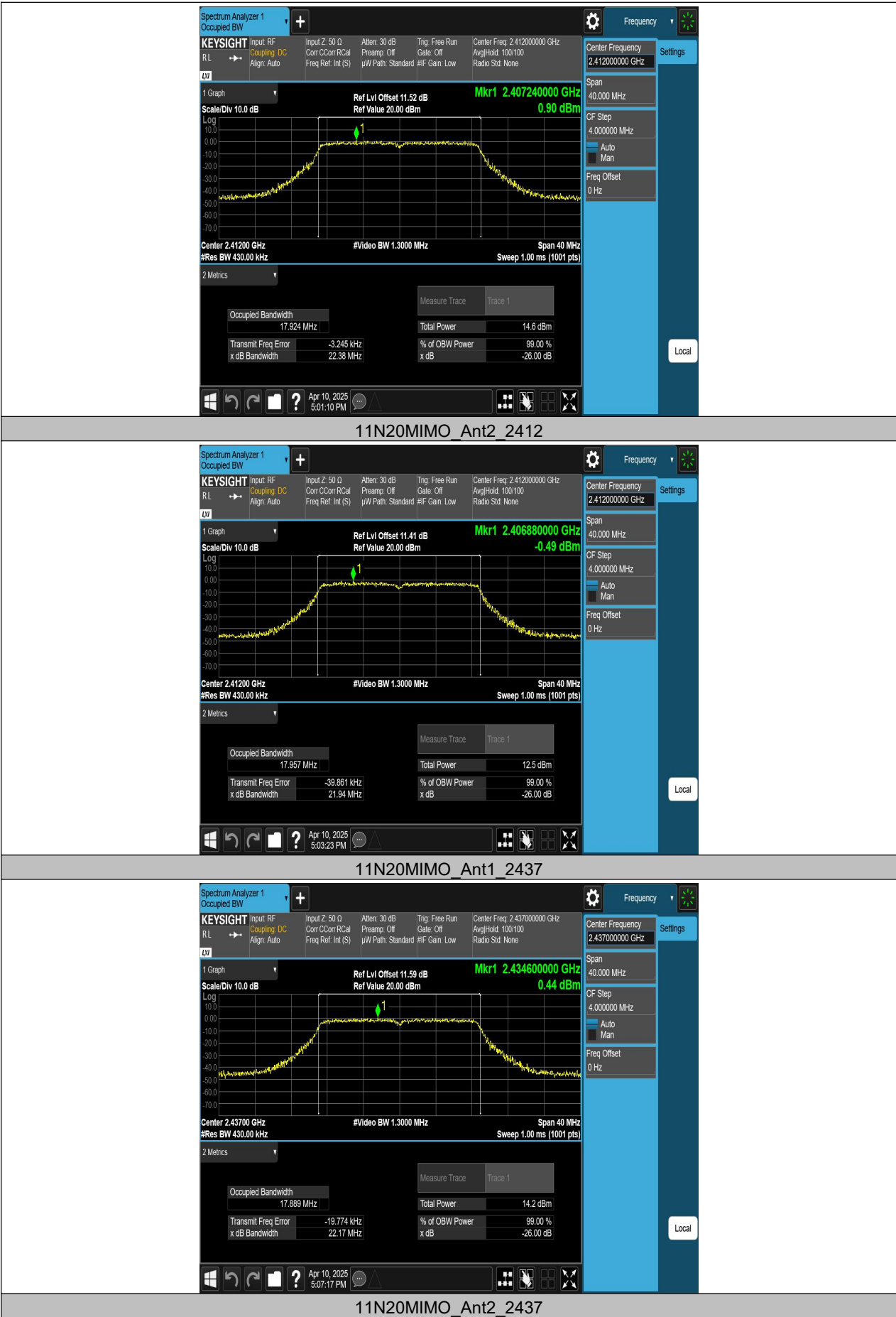
11B_Ant2_2462



11G_Ant1_2412







Spectrum Analyzer 1

Occupied BW

KEYSIGHT

Input: RF

RL

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

Atten: 30 dB

Preamp: Off

μ W Path: Standard

#F Gain: Low

Trig: Free Run

Gate: Off

#F Gain: Low

Center Freq: 2.41200000 GHz

Avg/Hold: 100/100

Radio Std: None

Center Frequency

2.41200000 GHz

Span

40.000 MHz

CF Step

4.000000 MHz

Auto

Man

Freq Offset

0 Hz

Local

1 Graph

Ref Lvl Offset 11.41 dB

Mkr1 2.406800000 GHz

-0.49 dBm

Ref Value 20.00 dBm

Log

Scale/Div 10.0 dB

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

-70.0

Center 2.41200 GHz

#Video BW 1.3000 MHz

Span 40 MHz

#Res BW 430.00 kHz

Sweep 1.00 ms (1001 pts)

2 Metrics

Measure Trace

Trace 1

Occupied Bandwidth

17.957 MHz

Total Power

12.5 dBm

Transmit Freq Error

-39.861 kHz

% of OBW Power

99.00 %

x dB Bandwidth

21.94 MHz

x dB

-26.00 dB

Apr 10, 2025

5:03:23 PM

11N20MIMO_Ant1_2437

Spectrum Analyzer 1

Occupied BW

KEYSIGHT

Input: RF

RL

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

Atten: 30 dB

Preamp: Off

μ W Path: Standard

#F Gain: Low

Trig: Free Run

Gate: Off

#F Gain: Low

Center Freq: 2.437000000 GHz

Avg/Hold: 100/100

Radio Std: None

Center Frequency

2.437000000 GHz

Span

40.000 MHz

CF Step

4.000000 MHz

Auto

Man

Freq Offset

0 Hz

Local

1 Graph

Ref Lvl Offset 11.59 dB

Mkr1 2.434600000 GHz

0.44 dBm

Ref Value 20.00 dBm

Log

Scale/Div 10.0 dB

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

-70.0

Center 2.43700 GHz

#Video BW 1.3000 MHz

Span 40 MHz

#Res BW 430.00 kHz

Sweep 1.00 ms (1001 pts)

2 Metrics

Measure Trace

Trace 1

Occupied Bandwidth

17.889 MHz

Total Power

14.2 dBm

Transmit Freq Error

-19.774 kHz

% of OBW Power

99.00 %

x dB Bandwidth

22.17 MHz

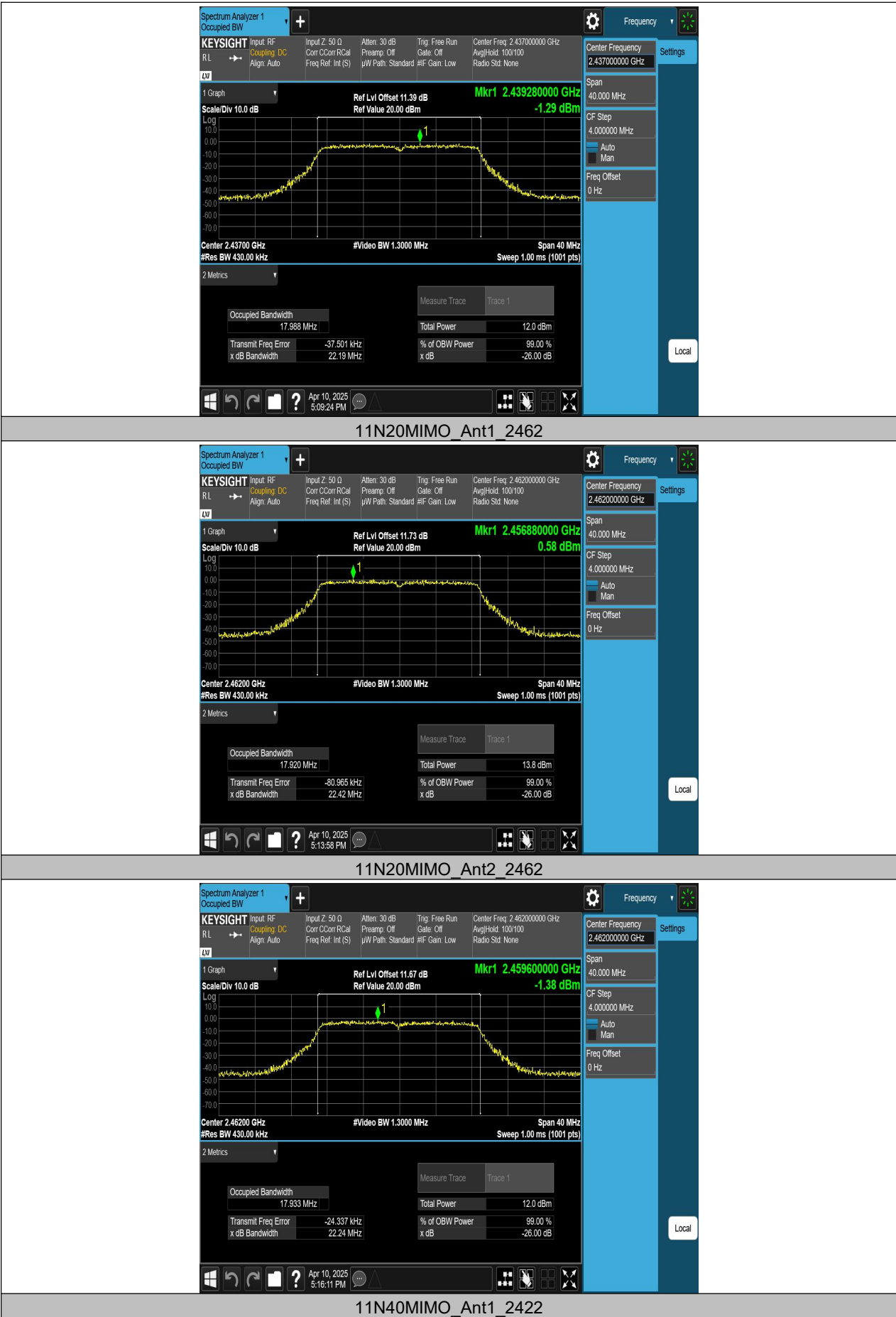
x dB

-26.00 dB

Apr 10, 2025

5:07:17 PM

11N20MIMO_Ant2_2437





Spectrum Analyzer 1

Occupied BW

KEYSIGHT

Input: RF

RL

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

Atten: 30 dB

Preamp: Off

μ W Path: Standard

Trig: Free Run

Gate: Off

#IF Gain: Low

Center Freq: 2.42200000 GHz

Avg/Hold: 100/100

Radio Std: None

Center Frequency

2.42200000 GHz

Span

80.000 MHz

CF Step

8.000000 MHz

Auto

Man

Freq Offset

0 Hz

Local

1 Graph

Ref Lvl Offset 11.36 dB

Mkr1 2.415520000 GHz

-0.53 dBm

Scale/Div 10.0 dB

Log

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

-70.0

Center 2.42200 GHz

#Video BW 2.7000 MHz

Span 80 MHz

#Res BW 820.00 kHz

Sweep 1.00 ms (1001 pts)

2 Metrics

Measure Trace

Trace 1

Occupied Bandwidth

35.950 MHz

Total Power

13.0 dBm

Transmit Freq Error

-46.726 kHz

% of OBW Power

99.00 %

x dB Bandwidth

39.03 MHz

x dB

-26.00 dB

Apr 10, 2025

5:23:50 PM

11N40MIMO_Ant1_2437

Spectrum Analyzer 1

Occupied BW

KEYSIGHT

Input: RF

RL

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

Atten: 30 dB

Preamp: Off

μ W Path: Standard

Trig: Free Run

Gate: Off

#IF Gain: Low

Center Freq: 2.43700000 GHz

Avg/Hold: 100/100

Radio Std: None

Center Frequency

2.43700000 GHz

Span

80.000 MHz

CF Step

8.000000 MHz

Auto

Man

Freq Offset

0 Hz

Local

1 Graph

Ref Lvl Offset 11.59 dB

Mkr1 2.441880000 GHz

1.42 dBm

Scale/Div 10.0 dB

Log

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

-70.0

Center 2.43700 GHz

#Video BW 2.7000 MHz

Span 80 MHz

#Res BW 820.00 kHz

Sweep 1.00 ms (1001 pts)

2 Metrics

Measure Trace

Trace 1

Occupied Bandwidth

35.920 MHz

Total Power

15.0 dBm

Transmit Freq Error

-44.157 kHz

% of OBW Power

99.00 %

x dB Bandwidth

38.99 MHz

x dB

-26.00 dB

Apr 10, 2025

5:29:39 PM

11N40MIMO_Ant2_2437



10. Conducted Output Power

10.1. Block diagram of test setup

Same as section 8.1

10.2. 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(b)(3) ISED RSS-247 5.4 (d)	Peak Output Power	1 watt or 30 dBm	2400-2483.5

10.3. Test Procedure

Place the EUT on the table and set it in the transmitting mode.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.

Measure peak power each channel.

Peak Detector use for Peak result.

AVG Detector use for AVG result.

10.4. Results

Test Mode	Ant.	Freq. (MHz)	Peak Power (dBm)	Conducted Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
11B	Ant1	2412	17.86	≤30.00	18.34	≤36.00	PASS
	Ant2	2412	15.10	≤30.00	15.58	≤36.00	PASS
	Ant1	2437	17.85	≤30.00	18.33	≤36.00	PASS
	Ant2	2437	15.12	≤30.00	15.60	≤36.00	PASS
	Ant1	2462	17.33	≤30.00	17.81	≤36.00	PASS
	Ant2	2462	15.28	≤30.00	15.76	≤36.00	PASS
11G	Ant1	2412	16.16	≤30.00	16.64	≤36.00	PASS
	Ant2	2412	14.50	≤30.00	14.98	≤36.00	PASS
	Ant1	2437	16.10	≤30.00	16.58	≤36.00	PASS
	Ant2	2437	14.08	≤30.00	14.56	≤36.00	PASS
	Ant1	2462	15.84	≤30.00	16.32	≤36.00	PASS
	Ant2	2462	14.14	≤30.00	14.62	≤36.00	PASS
11N20MIMO	Ant1	2412	15.25	≤30.00	15.73	≤36.00	PASS
	Ant2	2412	13.21	≤30.00	13.69	≤36.00	PASS
	total	2412	17.36	≤30.00	17.84	≤36.00	PASS
	Ant1	2437	14.93	≤30.00	15.41	≤36.00	PASS
	Ant2	2437	12.49	≤30.00	12.97	≤36.00	PASS
	total	2437	16.89	≤30.00	17.37	≤36.00	PASS
	Ant1	2462	14.75	≤30.00	15.23	≤36.00	PASS
	Ant2	2462	12.62	≤30.00	13.10	≤36.00	PASS
11N40MIMO	total	2462	16.82	≤30.00	17.30	≤36.00	PASS
	Ant1	2422	15.23	≤30.00	15.71	≤36.00	PASS
	Ant2	2422	13.26	≤30.00	13.74	≤36.00	PASS
	total	2422	17.37	≤30.00	17.85	≤36.00	PASS
	Ant1	2437	15.15	≤30.00	15.63	≤36.00	PASS
	Ant2	2437	13.19	≤30.00	13.67	≤36.00	PASS
	total	2437	17.29	≤30.00	17.77	≤36.00	PASS
	Ant1	2452	15.16	≤30.00	15.64	≤36.00	PASS