

CTC Laboratories, Inc.

Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

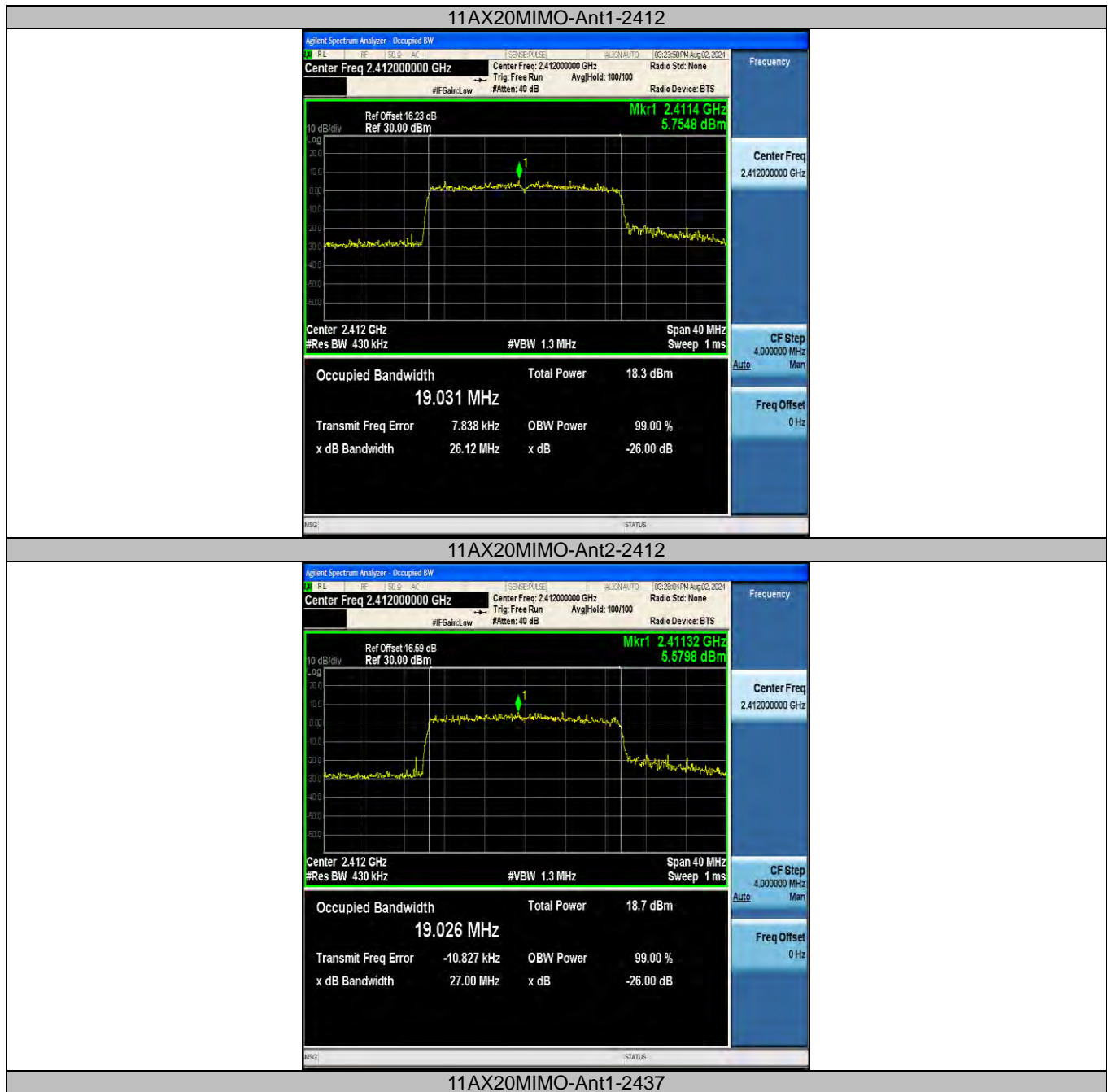
Tel.: (86)755-27521059

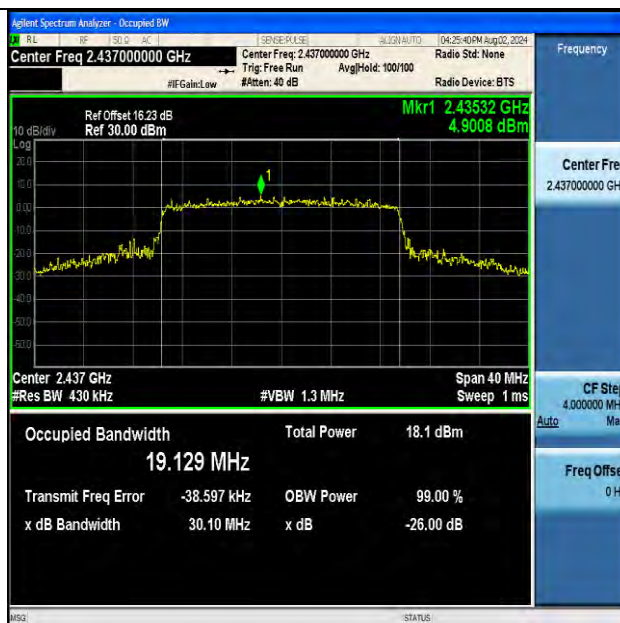
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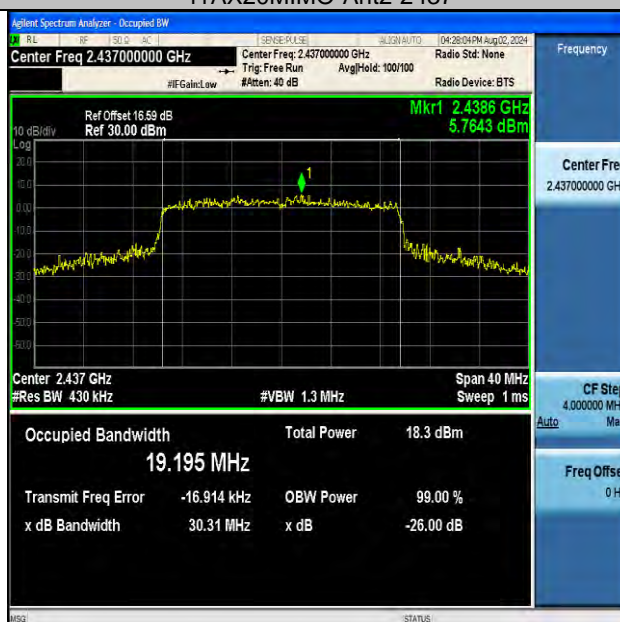
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TRF No: CTC-TR-057\_A2





11AX20MIMO-Ant2-2437



11AX20MIMO-Ant1-2462

CTC Laboratories, Inc.

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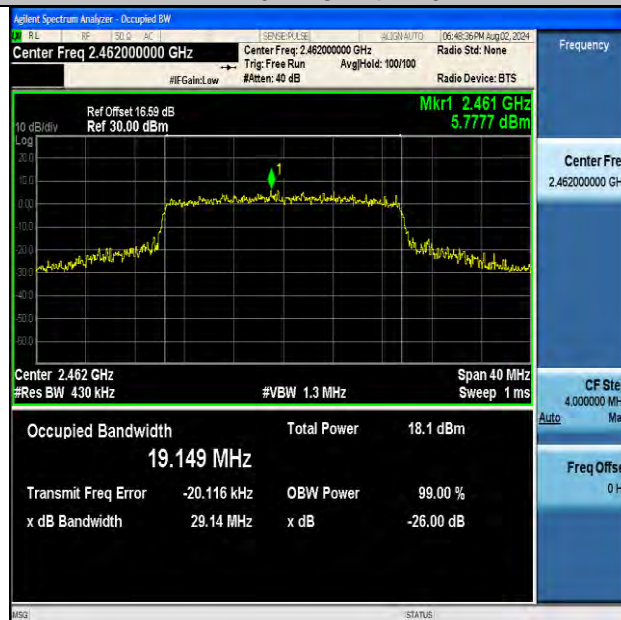
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11AX20MIMO-Ant2-2462



11AX40MIMO-Ant1-2422

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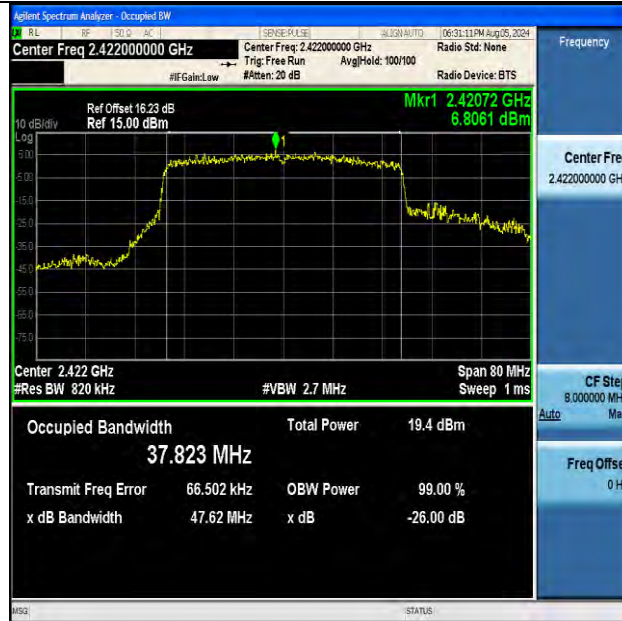
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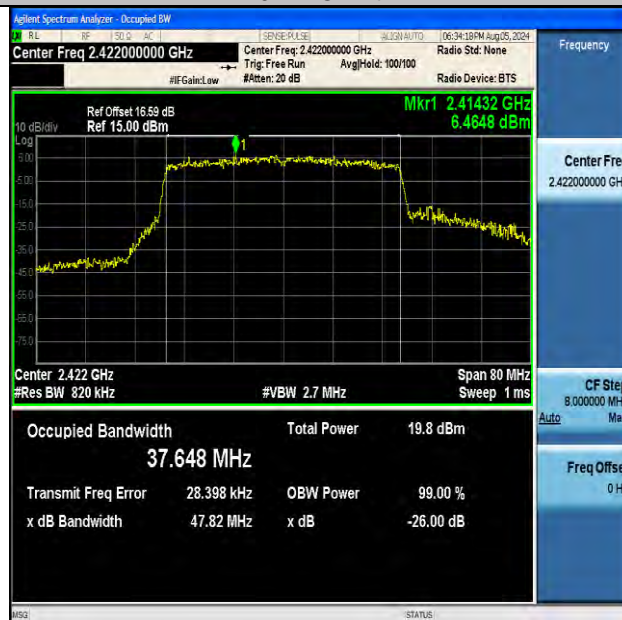
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11AX40MIMO-Ant2-2422



11AX40MIMO-Ant1-2437

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11AX40MIMO-Ant2-2437



11AX40MIMO-Ant2-2452

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## 11AX40MIMO-Ant1-2452



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DTS Bandwidth:



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TRF No: CTC-TR-057\_A2





11B\_Ant1\_2462



11B\_Ant2\_2462



11G\_Ant1\_2412

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11G\_Ant2\_2412



11G\_Ant1\_2437



11G\_Ant2\_2437

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11G\_Ant1\_2462



11G\_Ant2\_2462



11N20MIMO\_Ant1\_2412

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11N20MIMO\_Ant2\_2412



11N20MIMO\_Ant1\_2437



11N20MIMO\_Ant2\_2437

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11N20MIMO\_Ant1\_2462



11N20MIMO\_Ant2\_2462



11N40MIMO\_Ant1\_2422

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11N40MIMO\_Ant2\_2422



11N40MIMO\_Ant1\_2437



11N40MIMO\_Ant2\_2437

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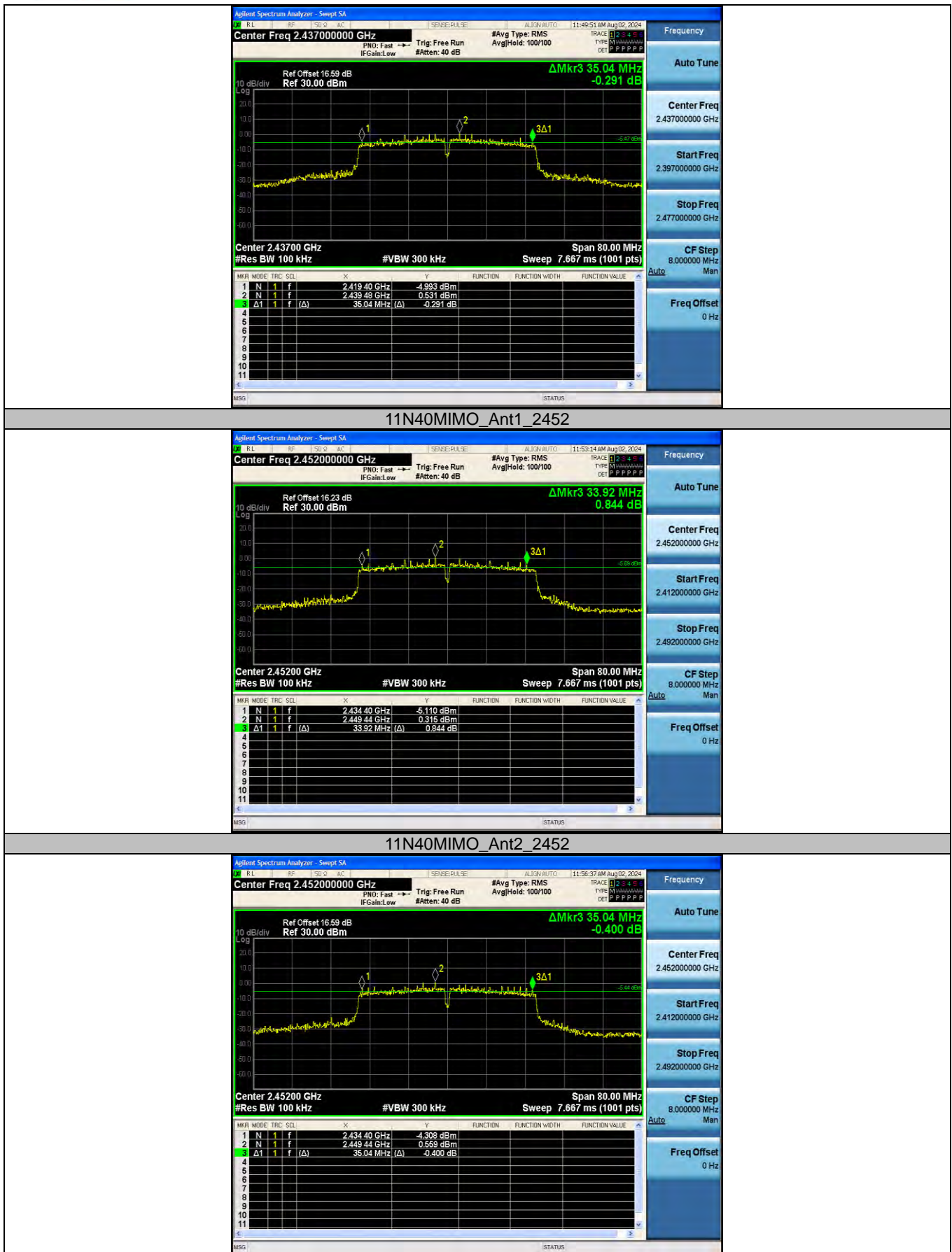
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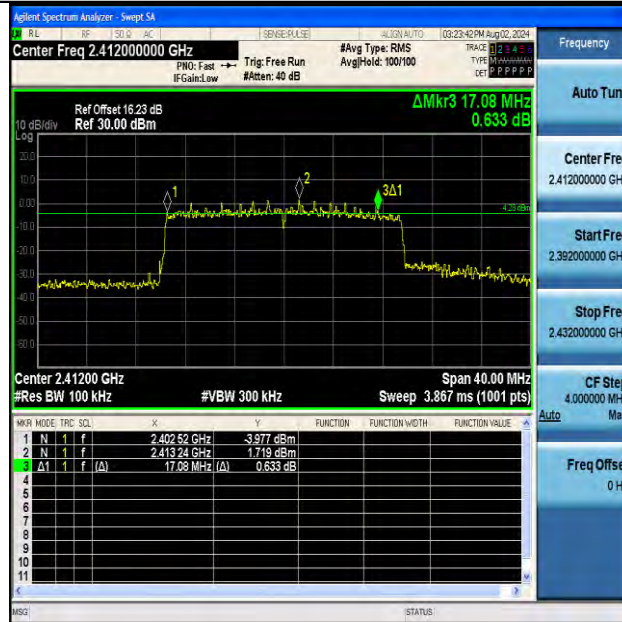
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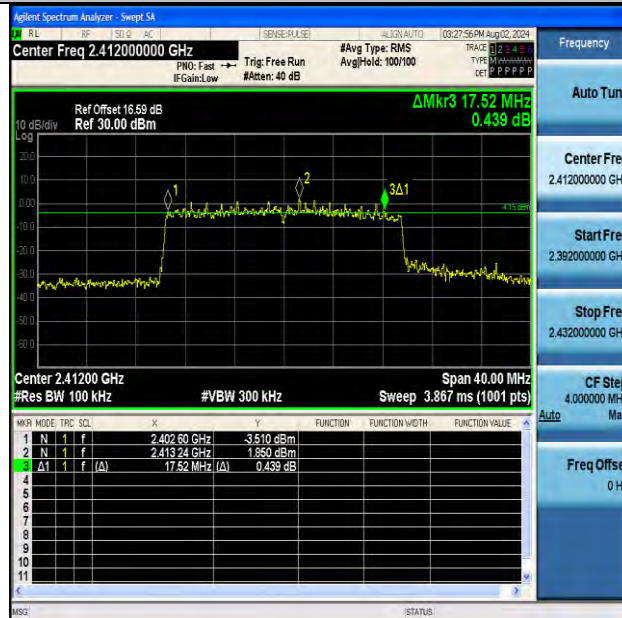
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## 11AX20MIMO-Ant1-2412 -PASS



## 11AX20MIMO-Ant2-2412 -PASS



## 11AX20MIMO-Ant1-2437 -PASS





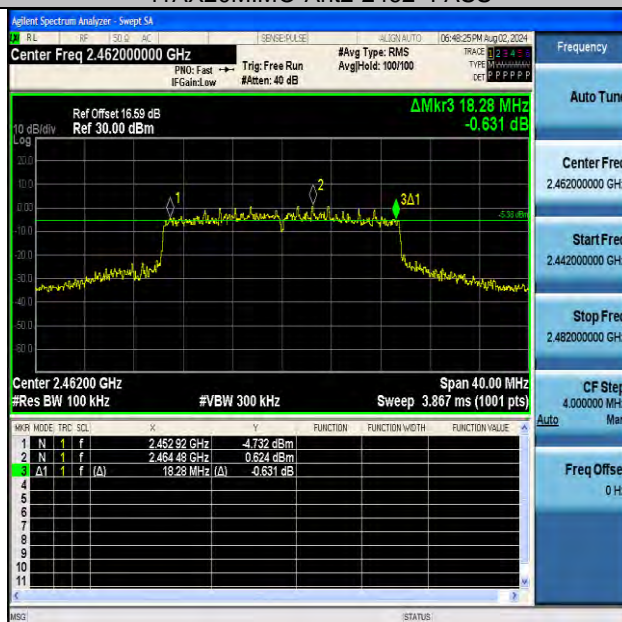
11AX20MIMO-Ant2-2437 -PASS



11AX20MIMO-Ant1-2462 -PASS



11AX20MIMO-Ant2-2462 -PASS



11AX40MIMO-Ant1-2422 -PASS



11AX40MIMO-Ant2-2422 -PASS



11AX40MIMO-Ant1-2437 -PASS

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11AX40MIMO-Ant2-2437 -PASS



11AX40MIMO-Ant2-2452 -PASS





11AX40MIMO-Ant1-2452 -PASS





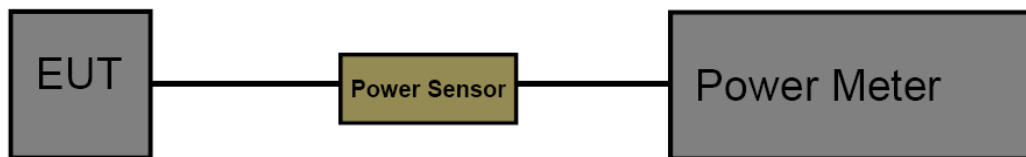
### 3.6. Peak Output Power

#### Limit

#### FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3) / RSS-247 5.4 d

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part 15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
	EIRP	4 Watt or 36dBm	2400~2483.5

#### Test Configuration



#### Test Procedure

1. The maximum conducted output power may be measured using a broadband Peak RF power meter.
2. Peak power measurements were performed only when the EUT was transmitting at its average power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.  
Record the measurement data.

#### Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	17.40	≤30	PASS
	Ant2	2412	<b>17.48</b>	≤30	PASS
	Ant1	2437	17.19	≤30	PASS
	Ant2	2437	17.12	≤30	PASS
	Ant1	2462	17.41	≤30	PASS
	Ant2	2462	17.45	≤30	PASS
11G	Ant1	2412	16.38	≤30	PASS
	Ant2	2412	14.65	≤30	PASS
	Ant1	2437	16.37	≤30	PASS
	Ant2	2437	16.85	≤30	PASS
	Ant1	2462	16.01	≤30	PASS
	Ant2	2462	16.40	≤30	PASS
11N20MIMO	Ant1	2412	13.56	≤30	PASS
	Ant2	2412	13.64	≤30	PASS
	total	2412	16.61	≤30	PASS
	Ant1	2437	13.22	≤30	PASS
	Ant2	2437	13.37	≤30	PASS
	total	2437	16.31	≤30	PASS
	Ant1	2462	13.20	≤30	PASS
	Ant2	2462	12.87	≤30	PASS
11N40MIMO	total	2462	16.05	≤30	PASS
	Ant1	2422	13.68	≤30	PASS
	Ant2	2422	13.28	≤30	PASS
	total	2422	16.49	≤30	PASS
	Ant1	2437	13.72	≤30	PASS
	Ant2	2437	13.78	≤30	PASS
	total	2437	16.76	≤30	PASS
	Ant1	2452	12.92	≤30	PASS
11AX20MIMO	Ant2	2452	13.61	≤30	PASS
	total	2452	16.29	≤30	PASS
	Ant1	2412	12.17	≤30	PASS
	Ant2	2412	12.64	≤30	PASS
	total	2412	15.42	≤30	PASS
	Ant1	2437	12.00	≤30	PASS
	Ant2	2437	12.05	≤30	PASS
	total	2437	15.04	≤30	PASS
11AX40MIMO	Ant1	2462	11.63	≤30	PASS
	Ant2	2462	12.00	≤30	PASS
	total	2462	14.83	≤30	PASS
	Ant1	2422	12.85	≤30	PASS
	Ant2	2422	12.78	≤30	PASS
	total	2422	15.83	≤30	PASS
	Ant1	2437	12.77	≤30	PASS
	Ant2	2437	12.55	≤30	PASS
	total	2437	15.67	≤30	PASS
	Ant1	2452	12.88	≤30	PASS
	Ant2	2452	13.15	≤30	PASS
	total	2452	16.03	≤30	PASS



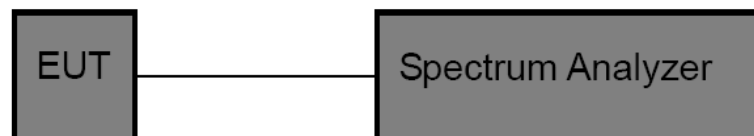
### 3.7. Power Spectral Density

#### Limit

#### FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e) / RSS-247 5.2 b

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (in any 3 kHz)	2400~2483.5

#### Test Configuration



#### Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:  
Set analyzer center frequency to OCB channel center frequency.  
Set the span to 1.5 times the OCB bandwidth.  
Set the RBW to: 3 kHz.  
Set the VBW to: 10 kHz.  
Detector: average.  
Sweep time: auto.  
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

#### Test Mode

Please refer to the clause 2.4.

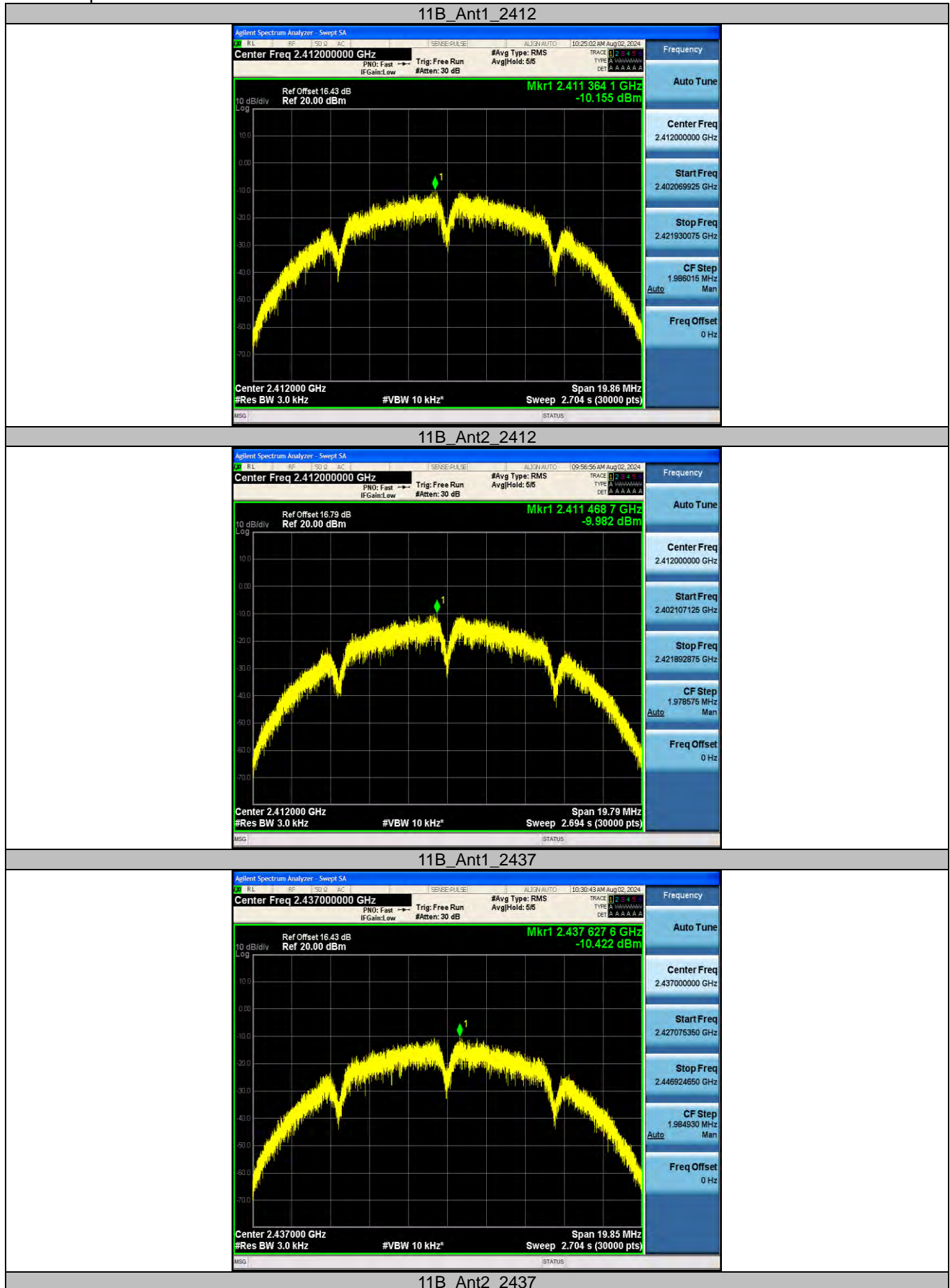


**Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.16	≤8	PASS
	Ant2	2412	-9.98	≤8	PASS
	Ant1	2437	-10.42	≤8	PASS
	Ant2	2437	-10.16	≤8	PASS
	Ant1	2462	-9.81	≤8	PASS
	Ant2	2462	-9.98	≤8	PASS
11G	Ant1	2412	-13.35	≤8	PASS
	Ant2	2412	-15.28	≤8	PASS
	Ant1	2437	-13.35	≤8	PASS
	Ant2	2437	-11.60	≤8	PASS
	Ant1	2462	-13.44	≤8	PASS
	Ant2	2462	-12.63	≤8	PASS
11N20MIMO	Ant1	2412	-16.55	≤8	PASS
	Ant2	2412	-15.93	≤8	PASS
	total	2412	-13.22	≤8	PASS
	Ant1	2437	-16.95	≤8	PASS
	Ant2	2437	-16.37	≤8	PASS
	total	2437	-13.64	≤8	PASS
	Ant1	2462	-16.26	≤8	PASS
	Ant2	2462	-16.87	≤8	PASS
11N40MIMO	total	2462	-13.54	≤8	PASS
	Ant1	2422	-18.12	≤8	PASS
	Ant2	2422	-17.88	≤8	PASS
	total	2422	-14.99	≤8	PASS
	Ant1	2437	-18.70	≤8	PASS
	Ant2	2437	-18.61	≤8	PASS
	total	2437	-15.64	≤8	PASS
	Ant1	2452	-18.83	≤8	PASS
11AX20MIMO	Ant2	2452	-18.41	≤8	PASS
	total	2452	-15.60	≤8	PASS
	Ant1	2412	-15.43	≤8	PASS
	Ant2	2412	-13.45	≤8	PASS
	total	2412	-11.32	≤8	PASS
	Ant1	2437	-16.83	≤8	PASS
	Ant2	2437	-15.69	≤8	PASS
	total	2437	-13.21	≤8	PASS
11AX40MIMO	Ant1	2462	-17.00	≤8	PASS
	Ant2	2462	-16.32	≤8	PASS
	total	2462	-13.64	≤8	PASS
	Ant1	2422	-17.66	≤8	PASS
	Ant2	2422	-15.76	≤8	PASS
	total	2422	-13.60	≤8	PASS
	Ant1	2437	-17.68	≤8	PASS
	Ant2	2437	-18.19	≤8	PASS
11AX20MIMO	total	2437	-14.92	≤8	PASS
	Ant1	2452	-17.82	≤8	PASS
	Ant2	2452	-16.81	≤8	PASS
	total	2452	-14.28	≤8	PASS



## Test Graphs:



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11B\_Ant1\_2462



11B\_Ant2\_2462



11G\_Ant1\_2412

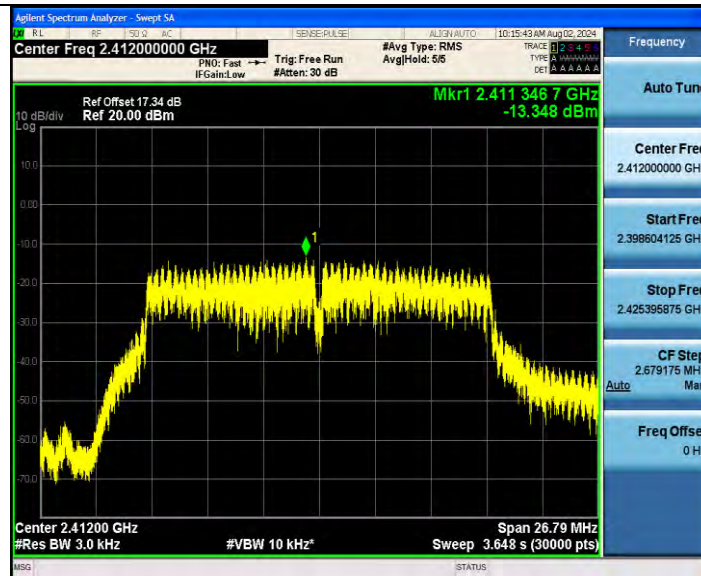
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11G\_Ant2\_2412



11G\_Ant1\_2437



11G\_Ant2\_2437

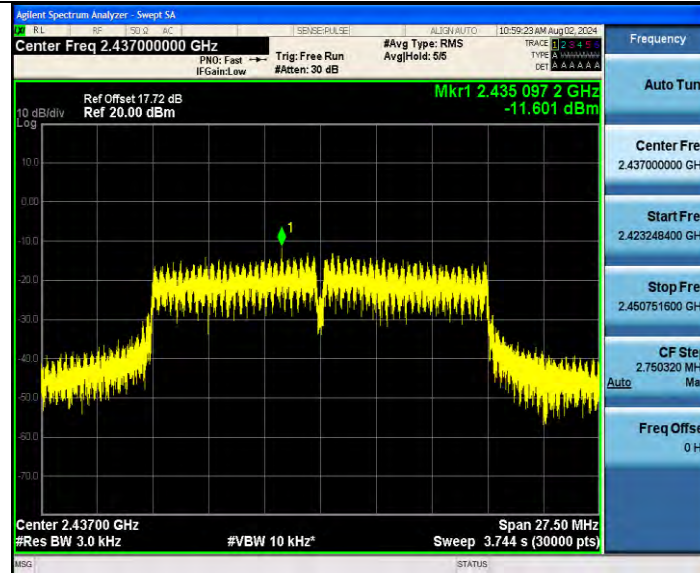
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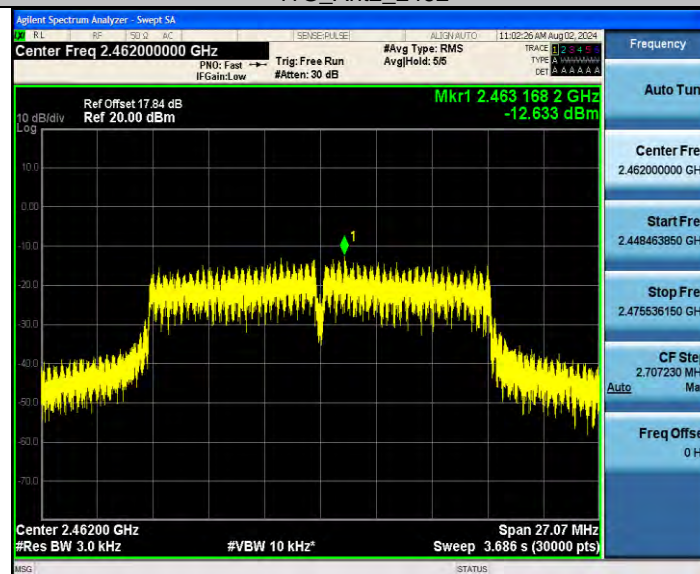




11G\_Ant1\_2462



11G\_Ant2\_2462



11N20MIMO\_Ant1\_2412

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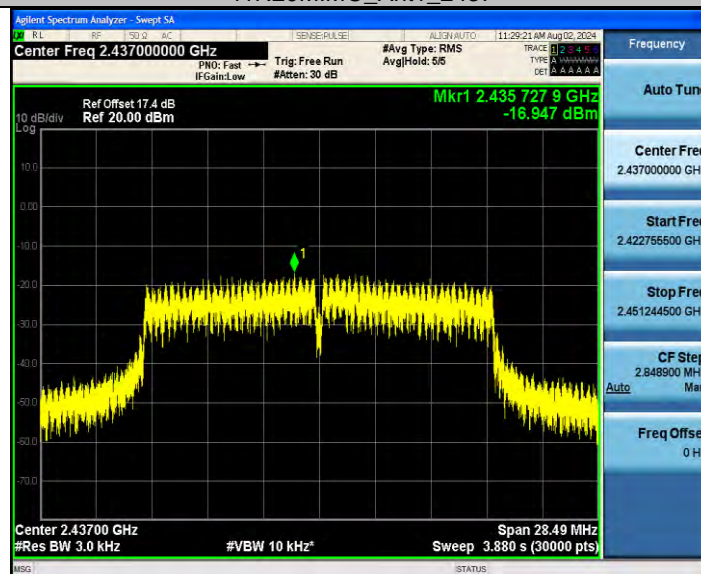
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11N20MIMO\_Ant1\_2437



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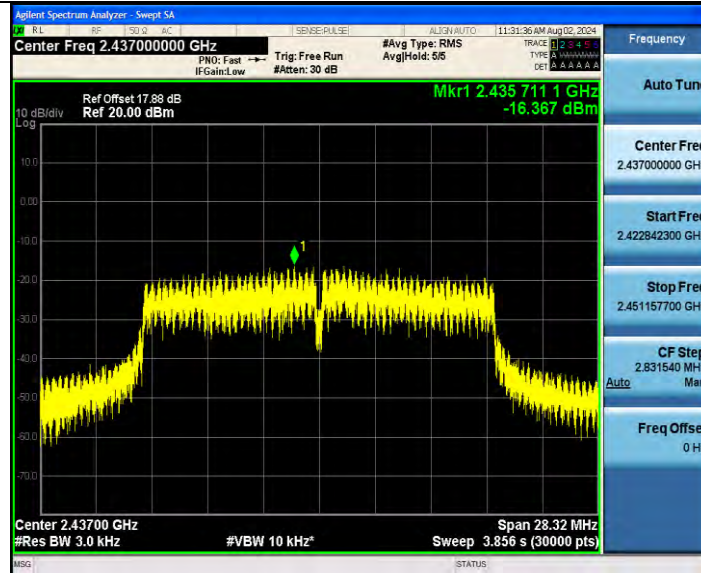
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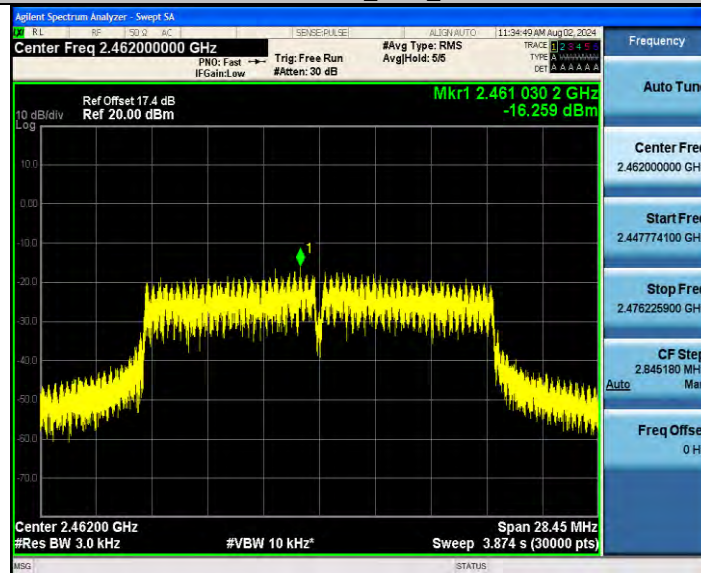
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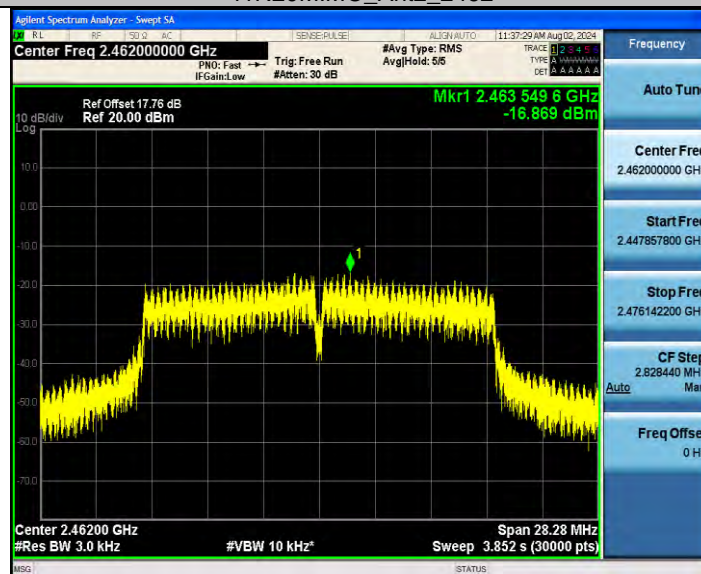
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11N40MIMO\_Ant1\_2422

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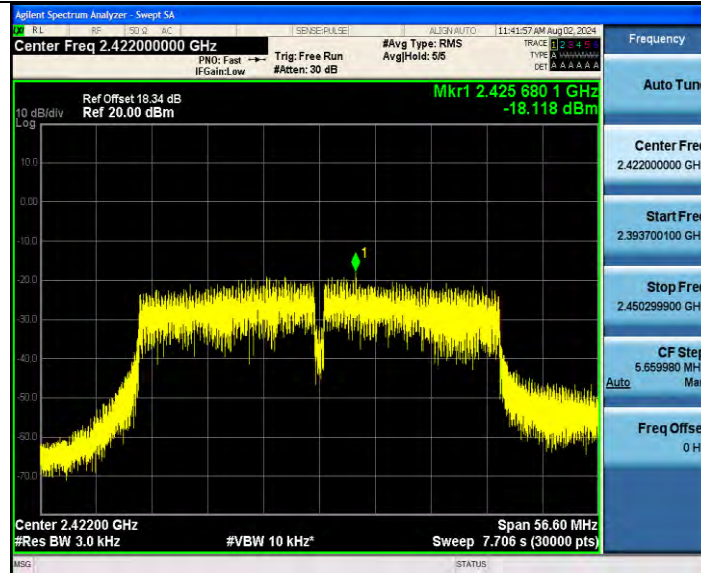
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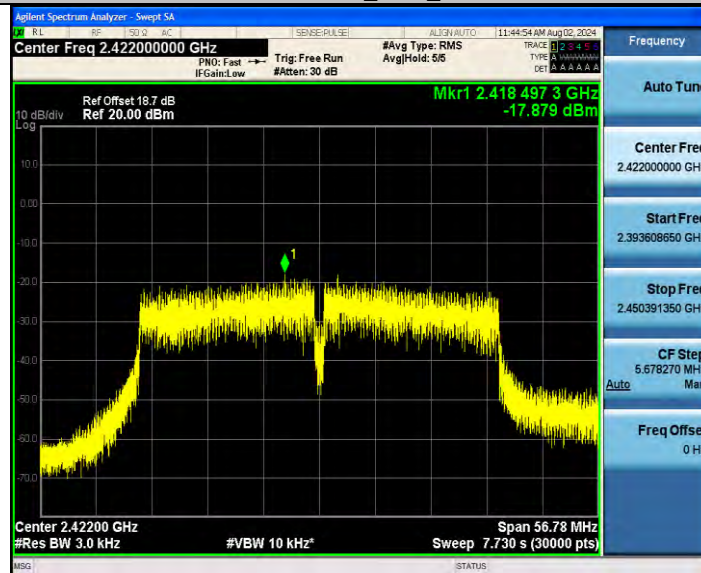
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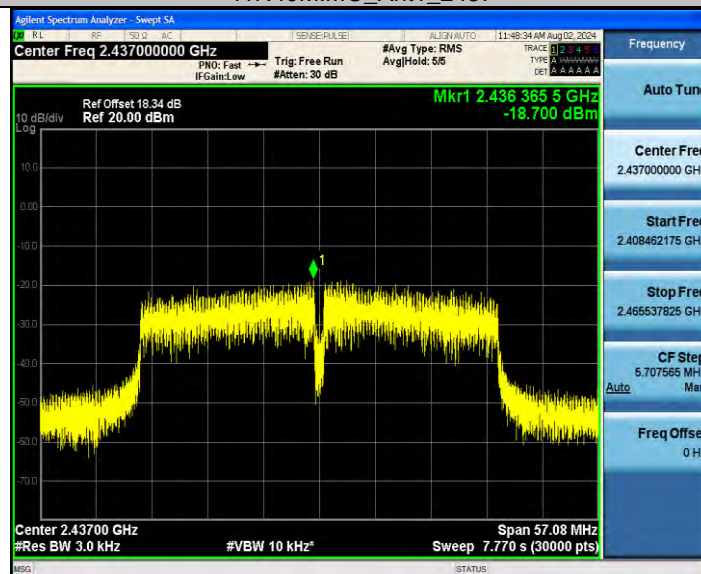




11N40MIMO\_Ant2\_2422



11N40MIMO\_Ant1\_2437



11N40MIMO\_Ant2\_2437

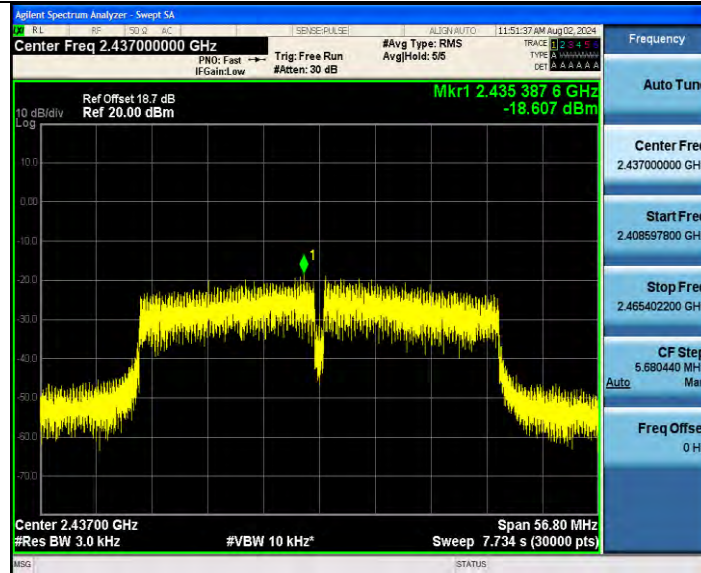
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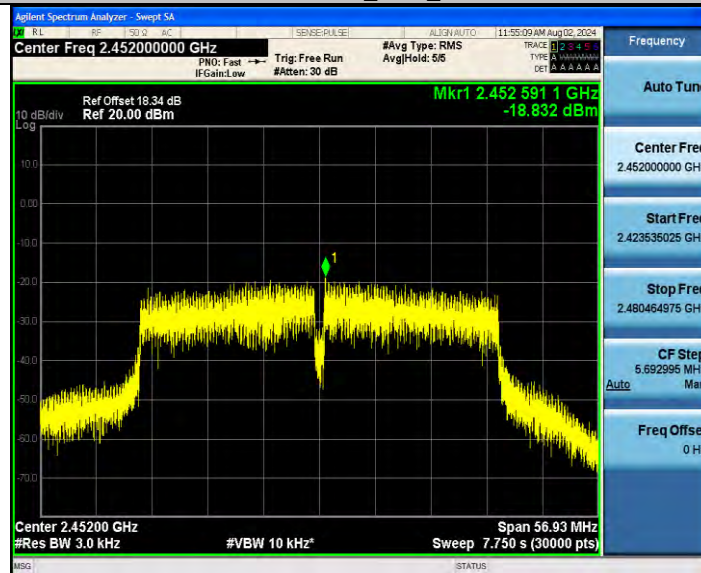
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11N40MIMO\_Ant1\_2452



11N40MIMO\_Ant2\_2452



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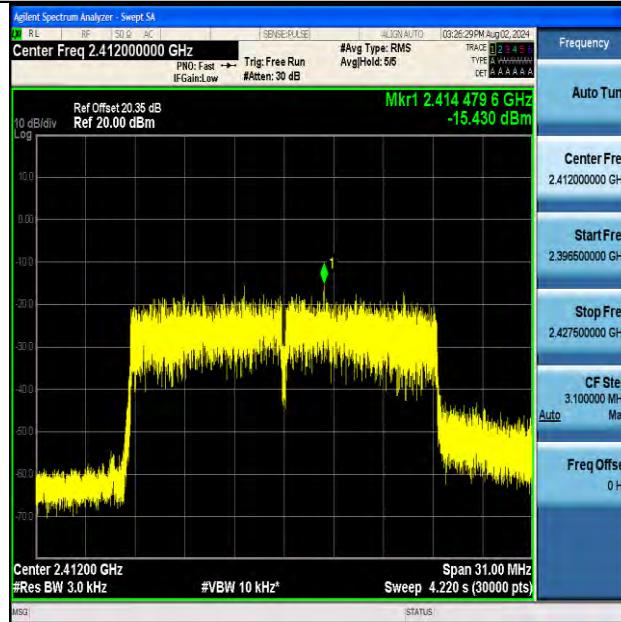
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,  
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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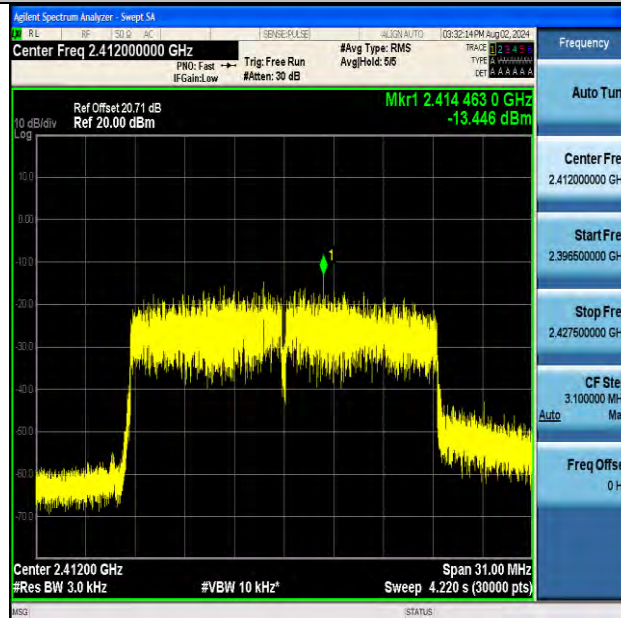
TRF No: CTC-TR-057\_A2



## 11AX20MIMO-Ant1-2412 -PASS

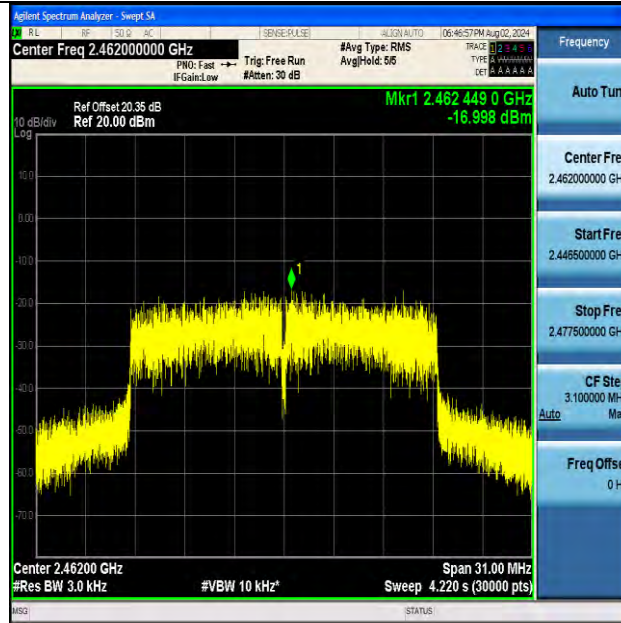


## 11AX20MIMO-Ant2-2412 -PASS

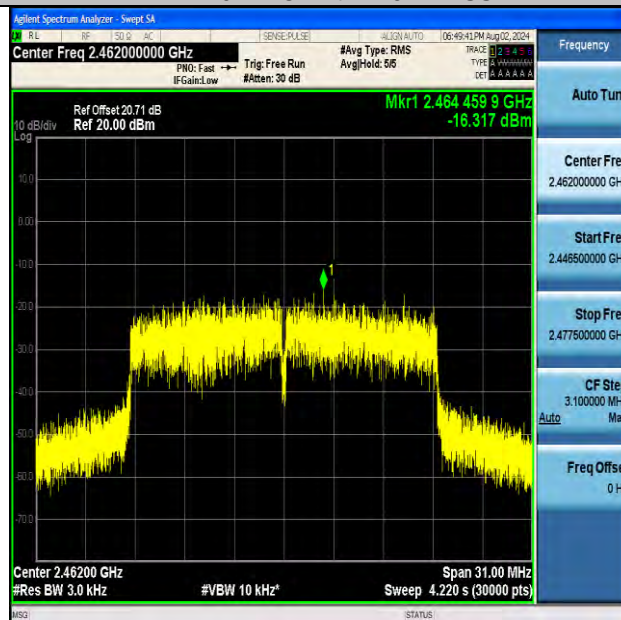


## 11AX20MIMO-Ant1-2437 -PASS





11AX20MIMO-Ant2-2462 -PASS



11AX40MIMO-Ant1-2422 -PASS

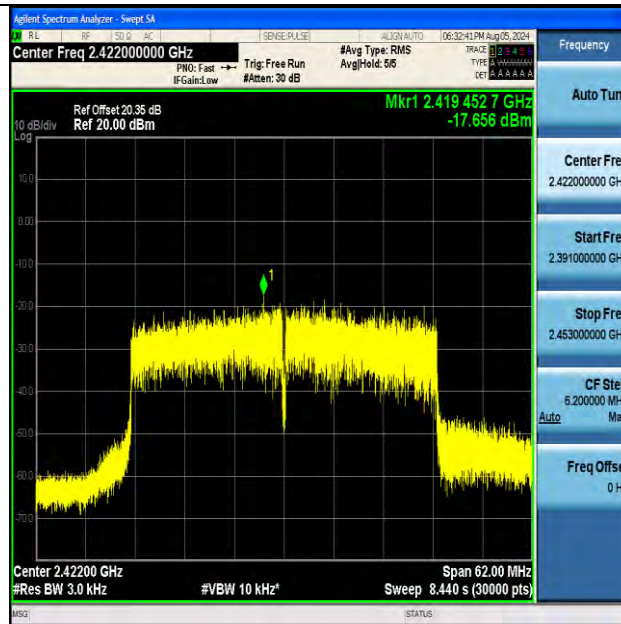
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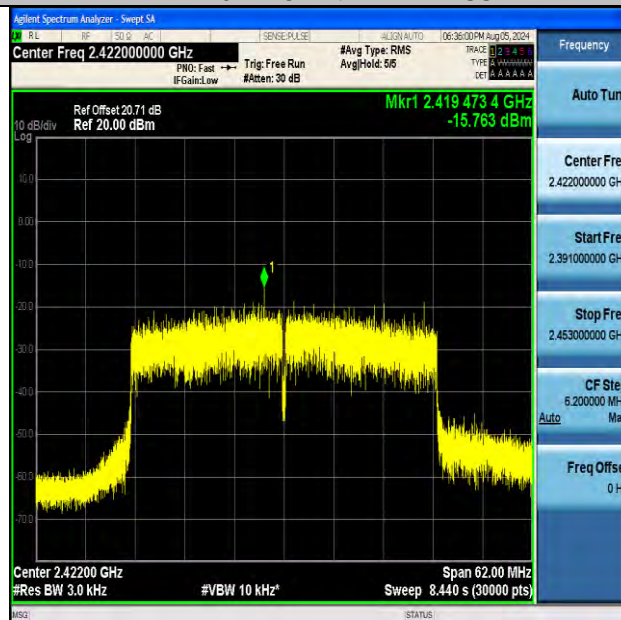
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11AX40MIMO-Ant2-2422 -PASS



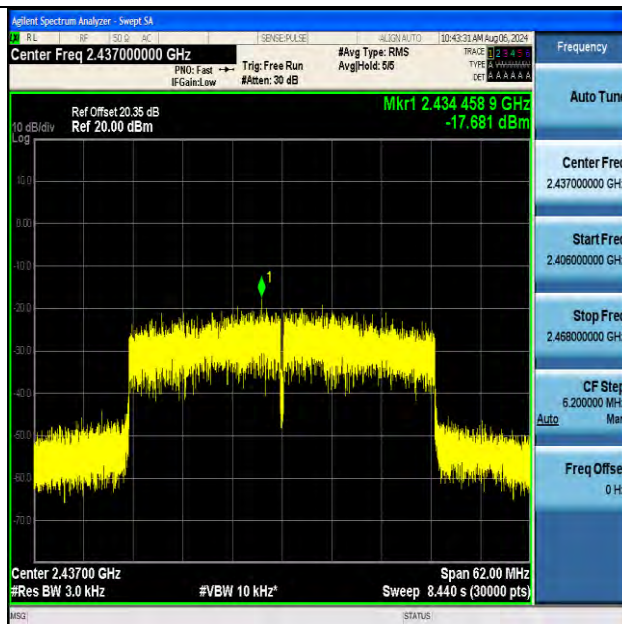
11AX40MIMO-Ant1-2437 -PASS

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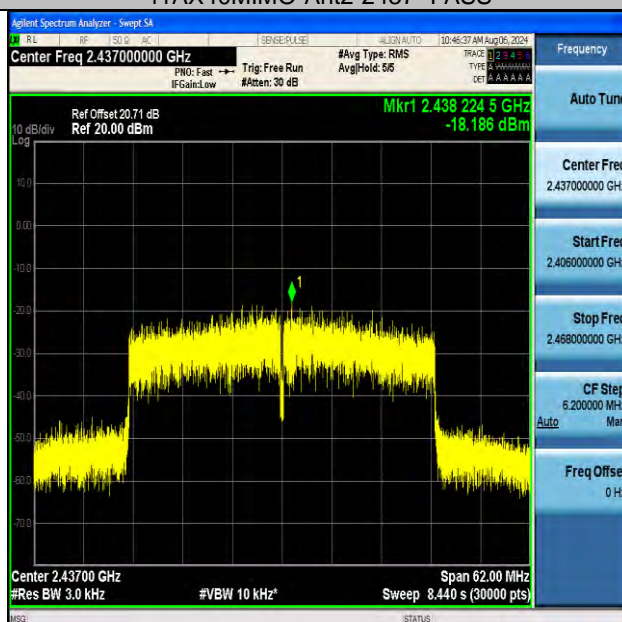
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,  
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11AX40MIMO-Ant2-2437 -PASS



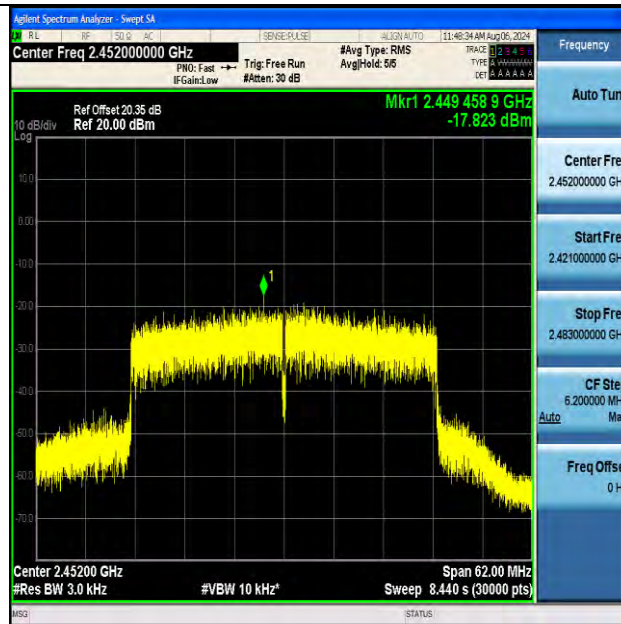
11AX40MIMO-Ant1-2452 -PASS

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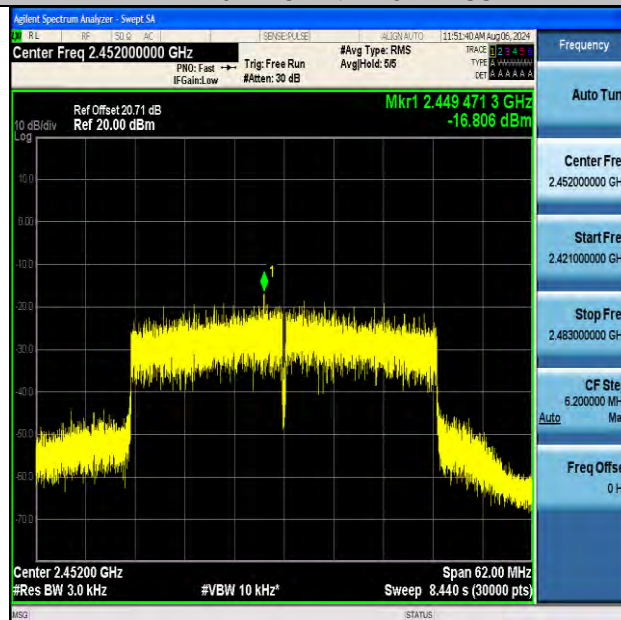
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China  
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## 11AX40MIMO-Ant2-2452 -PASS



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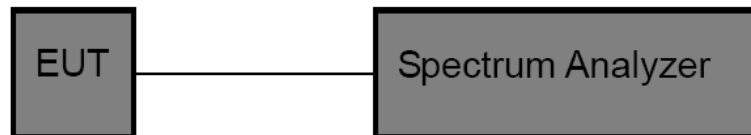
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### 3.8. Duty Cycle

#### Limit

None, for report purposes only.

#### Test Configuration



#### Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:  
Set analyzer center frequency to test channel center frequency.  
Set the span to 0Hz.  
Set the RBW to 8MHz.  
Set the VBW to 8MHz.  
Detector: Peak.  
Sweep time: Auto.  
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

#### Test Mode

Please refer to the clause 2.4.



**Test Result**

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
11B	Ant1	2412	8.40	8.80	95.45	0.12	1
	Ant2	2412	8.35	8.75	95.43	0.12	1
	Ant1	2437	8.40	8.80	95.45	0.12	1
	Ant2	2437	8.40	8.80	95.45	0.12	1
	Ant1	2462	8.35	8.80	94.89	0.12	1
	Ant2	2462	8.35	8.75	95.43	0.12	1
11G	Ant1	2412	1.38	1.78	77.53	0.72	1
	Ant2	2412	1.35	1.75	77.14	0.74	1
	Ant1	2437	1.38	1.78	77.53	0.72	1
	Ant2	2437	1.35	1.75	77.14	0.74	1
	Ant1	2462	1.38	1.80	76.67	0.72	1
	Ant2	2462	1.35	1.80	75.00	0.74	1
11N20MIMO	Ant1	2412	1.30	1.75	74.29	0.77	1
	Ant2	2412	1.30	1.70	76.47	0.77	1
	Ant1	2437	1.30	1.70	76.47	0.77	1
	Ant2	2437	1.30	1.75	74.29	0.77	1
	Ant1	2462	1.30	1.70	76.47	0.77	1
	Ant2	2462	1.30	1.70	76.47	0.77	1
11N40MIMO	Ant1	2422	0.64	1.04	61.54	1.56	3
	Ant2	2422	0.64	1.04	61.54	1.56	3
	Ant1	2437	0.64	1.04	61.54	1.56	3
	Ant2	2437	0.64	1.04	61.54	1.56	3
	Ant1	2452	0.64	1.04	61.54	1.56	3
	Ant2	2452	0.64	1.04	61.54	1.56	3
11AX20MIMO	Ant1	2412	0.24	0.62	38.71	4.17	5
	Ant2	2412	0.24	0.62	38.71	4.17	5
	Ant1	2437	0.24	0.62	38.71	4.17	5
	Ant2	2437	0.24	0.62	38.71	4.17	5
	Ant1	2462	0.24	0.62	38.71	4.17	5
	Ant2	2462	0.24	0.62	38.71	4.17	5
11AX40MIMO	Ant1	2422	0.24	0.62	38.71	4.17	5
	Ant2	2422	0.24	0.62	38.71	4.17	5
	Ant1	2437	0.24	0.62	38.71	4.17	5
	Ant2	2437	0.24	0.62	38.71	4.17	5
	Ant1	2452	0.24	0.62	38.71	4.17	5
	Ant2	2452	0.24	0.62	38.71	4.17	5



## Test Graphs:



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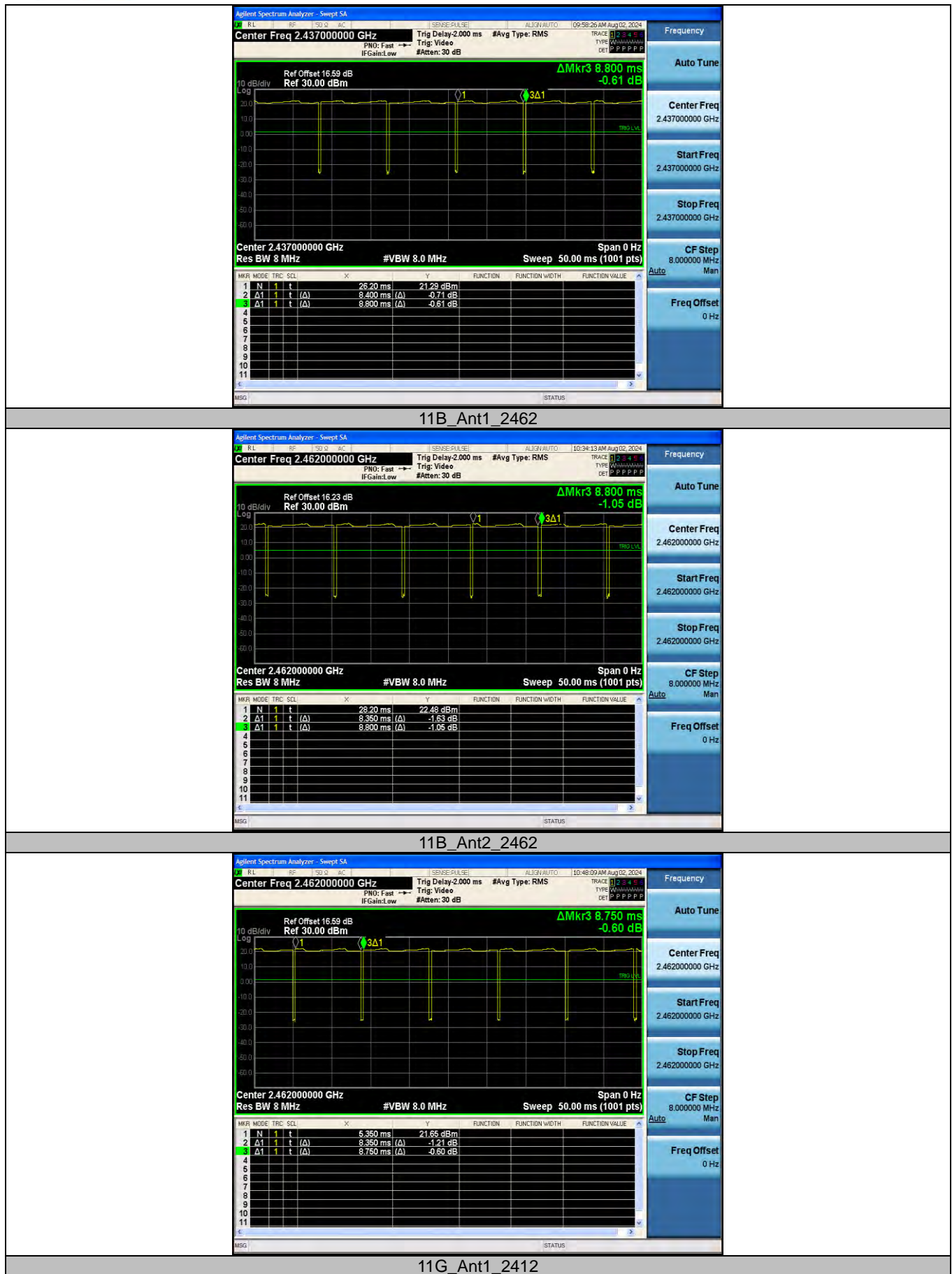
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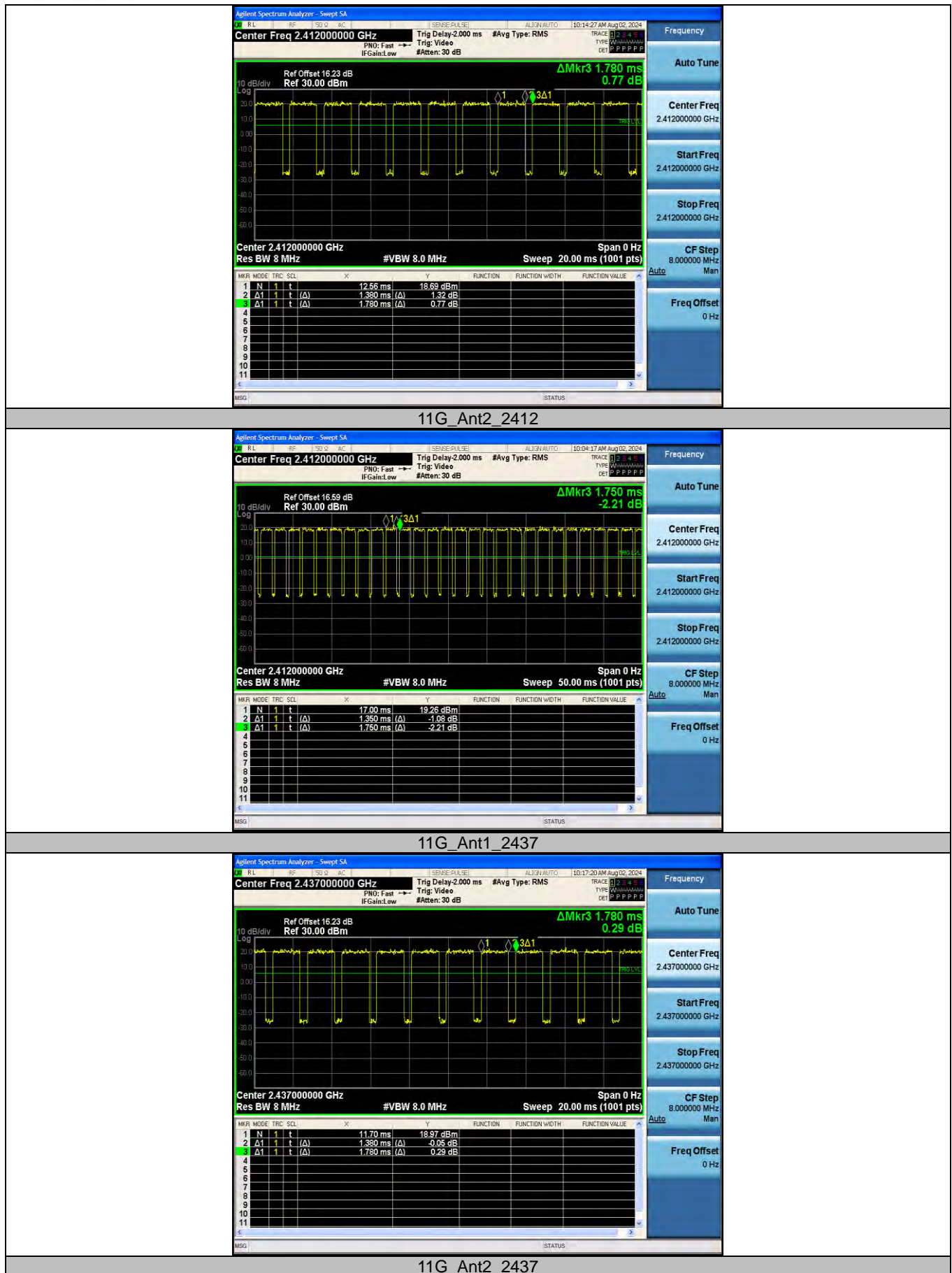
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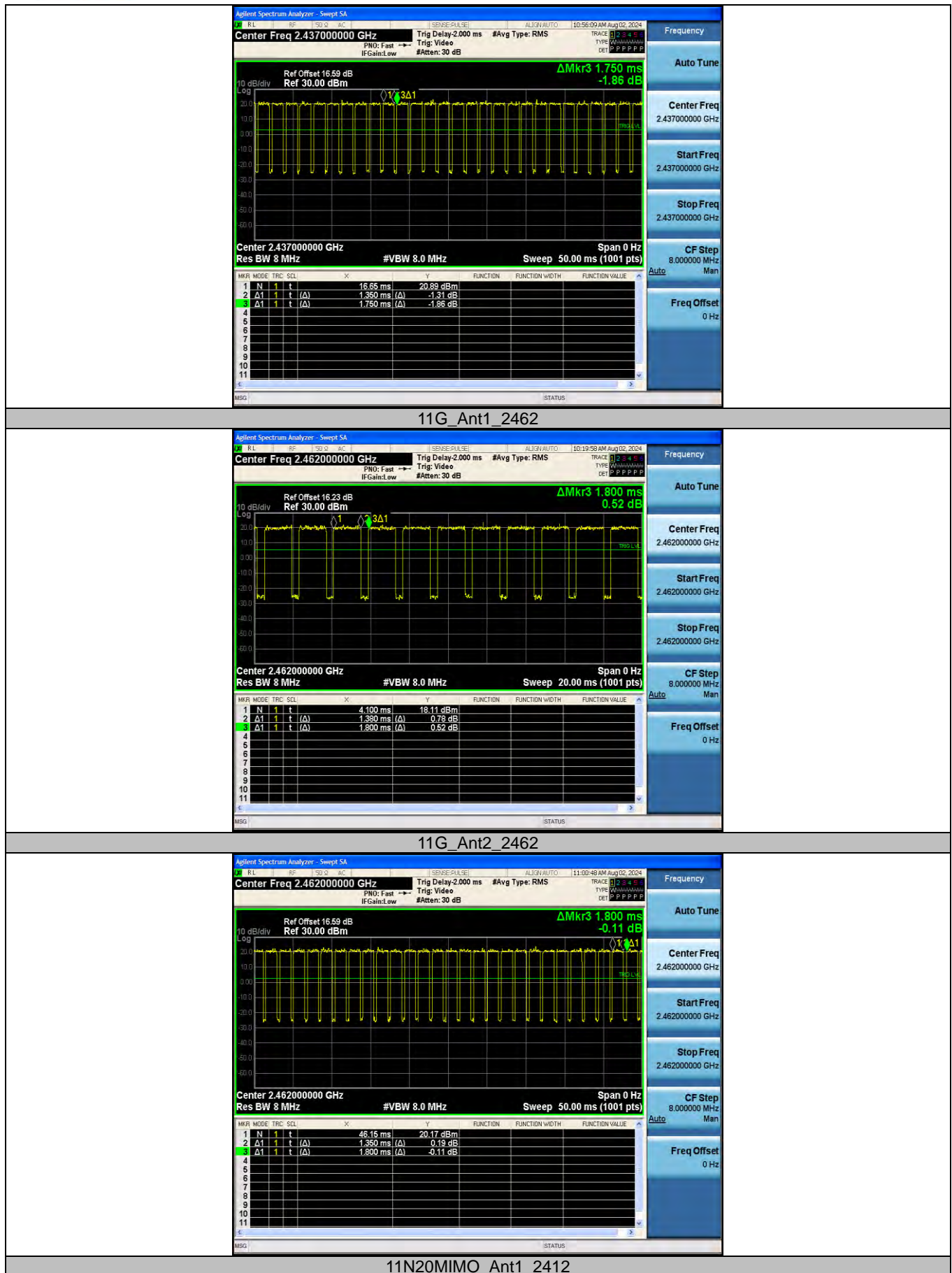
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