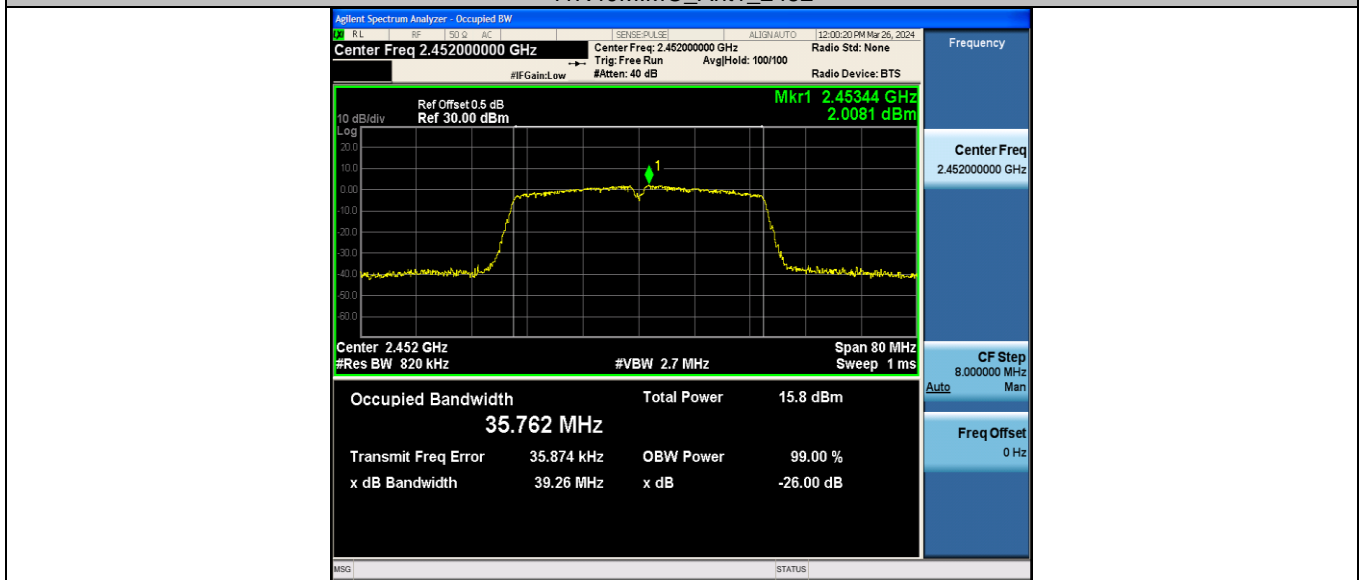
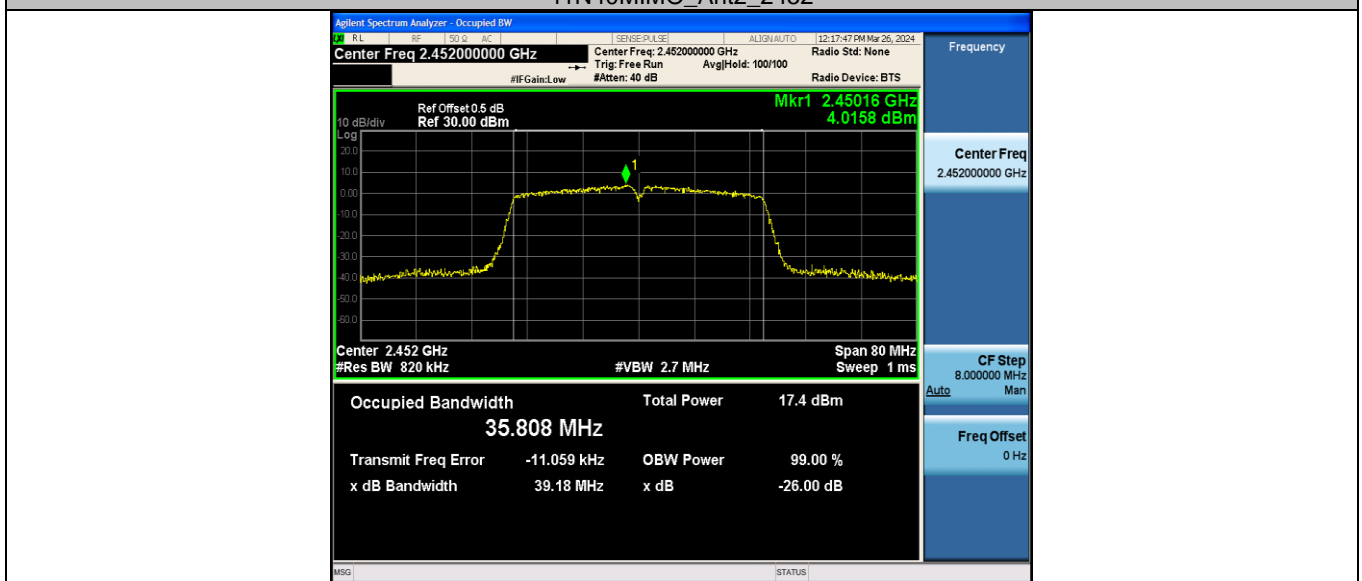


11N40MIMO_Ant1_2452

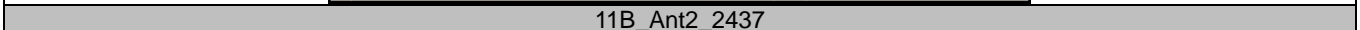
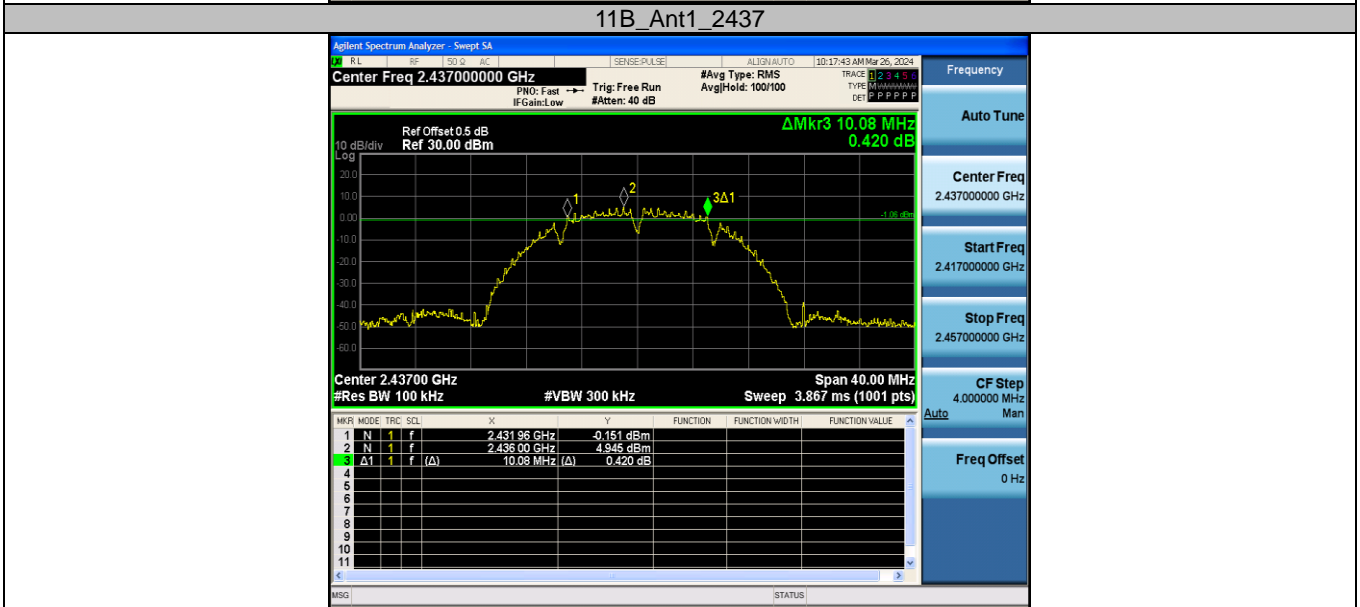
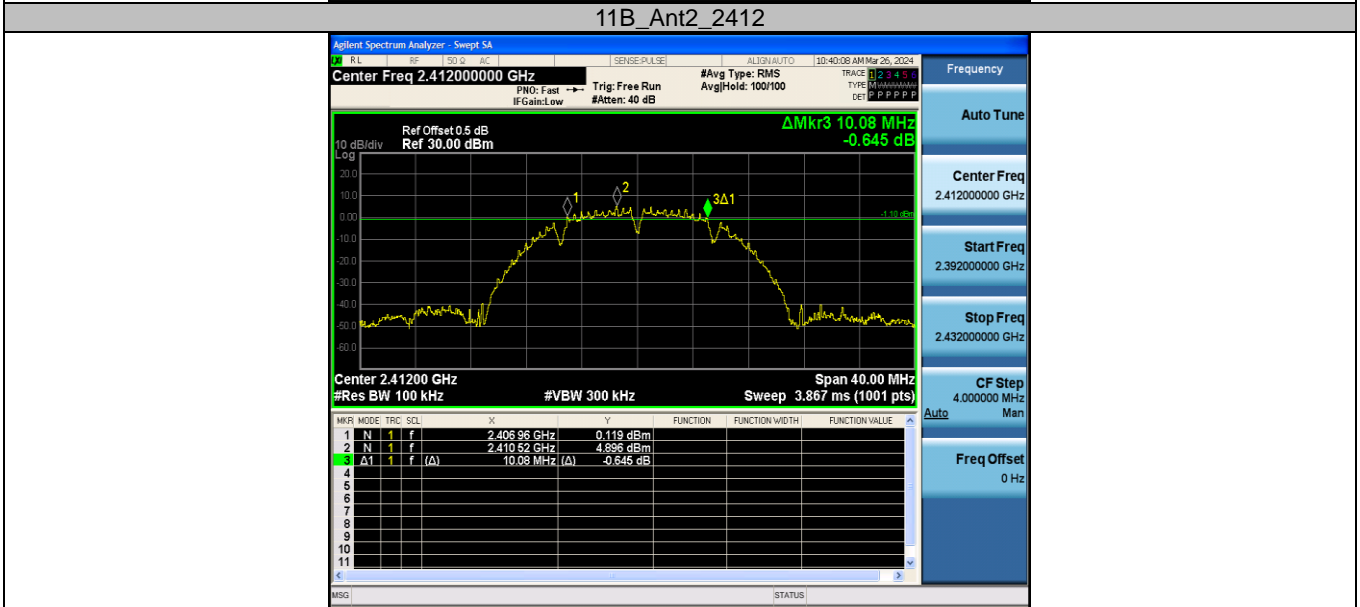
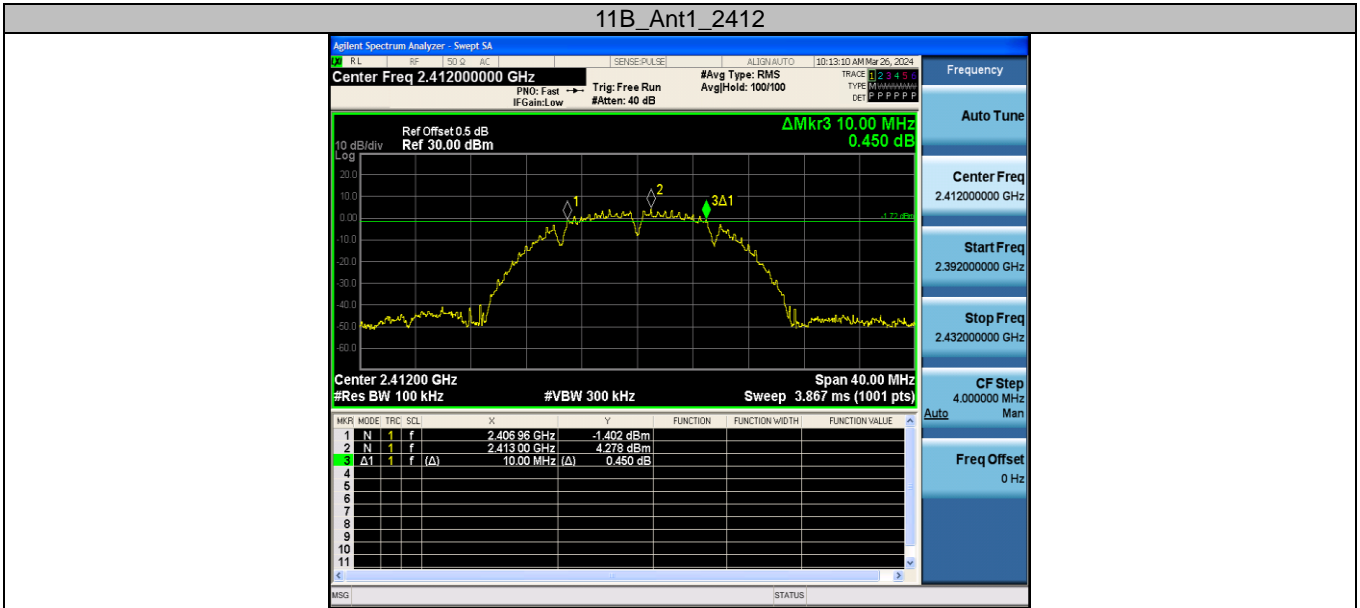


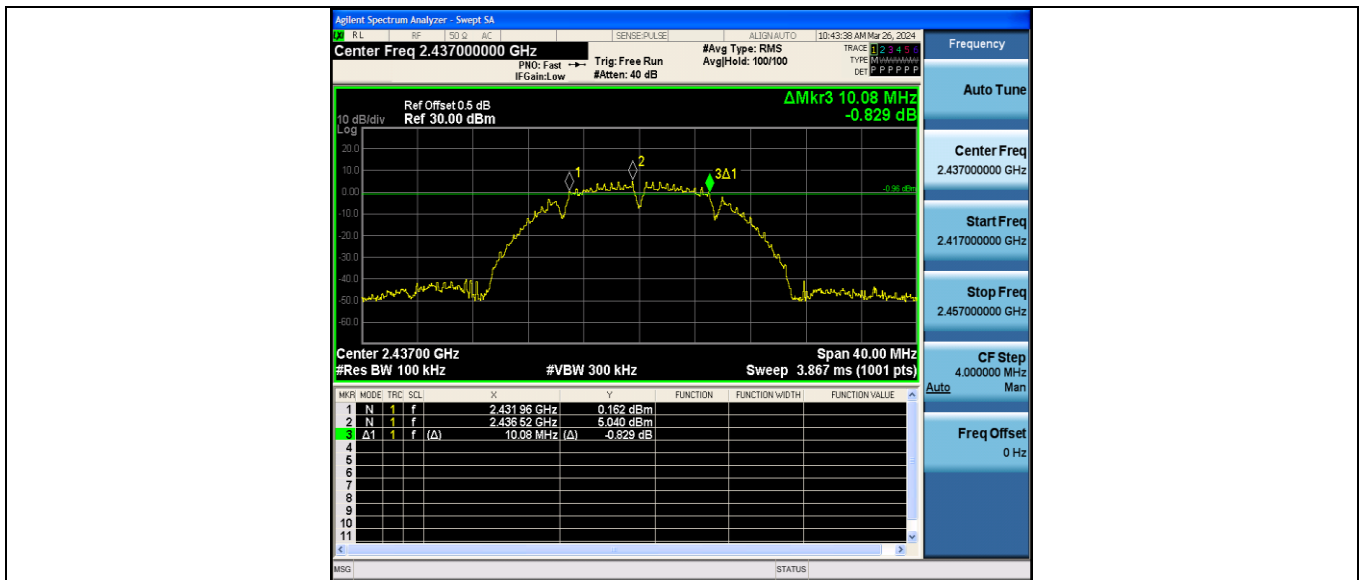
11N40MIMO_Ant2_2452



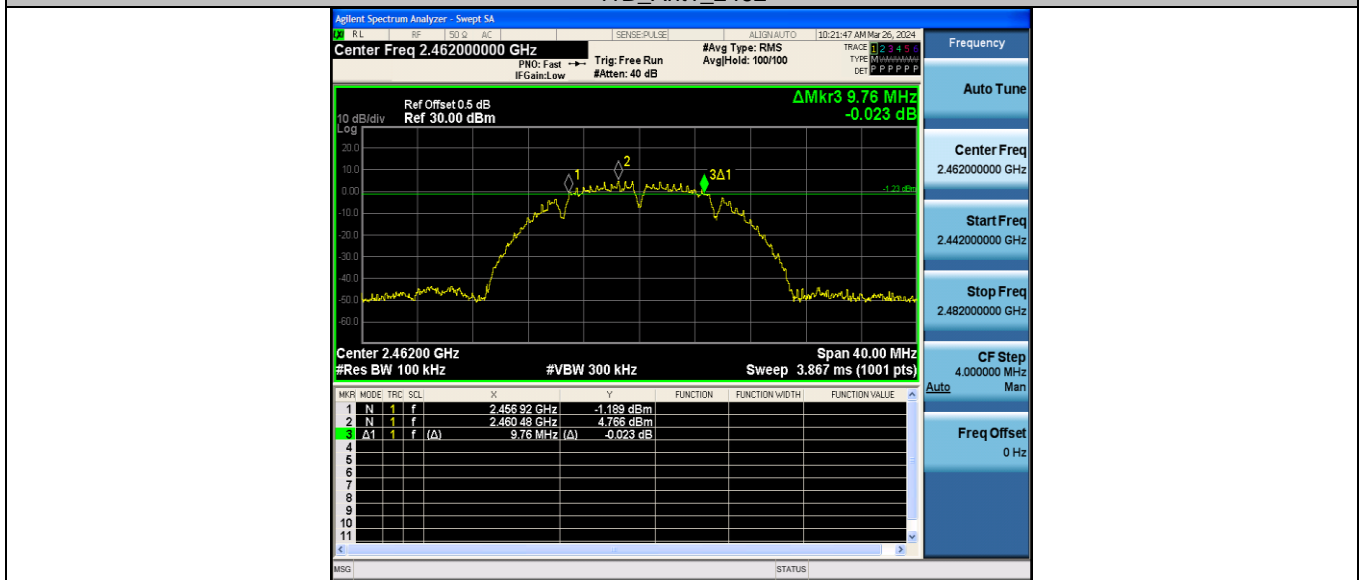


DTS Bandwidth:

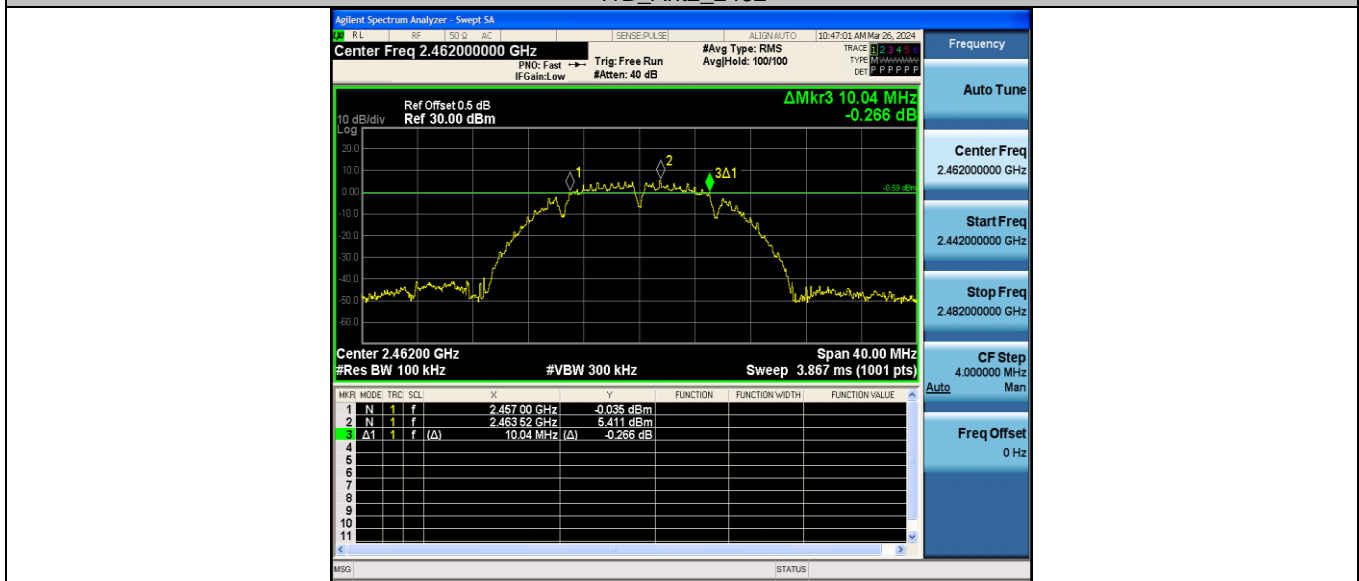




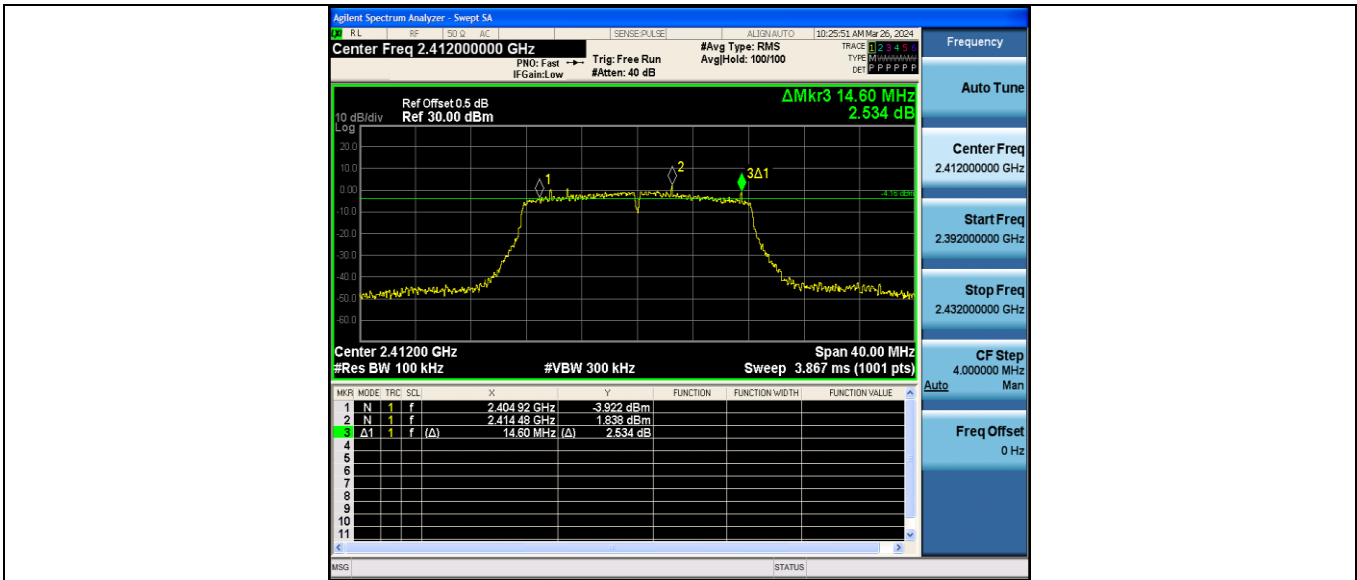
11B_Ant1_2462



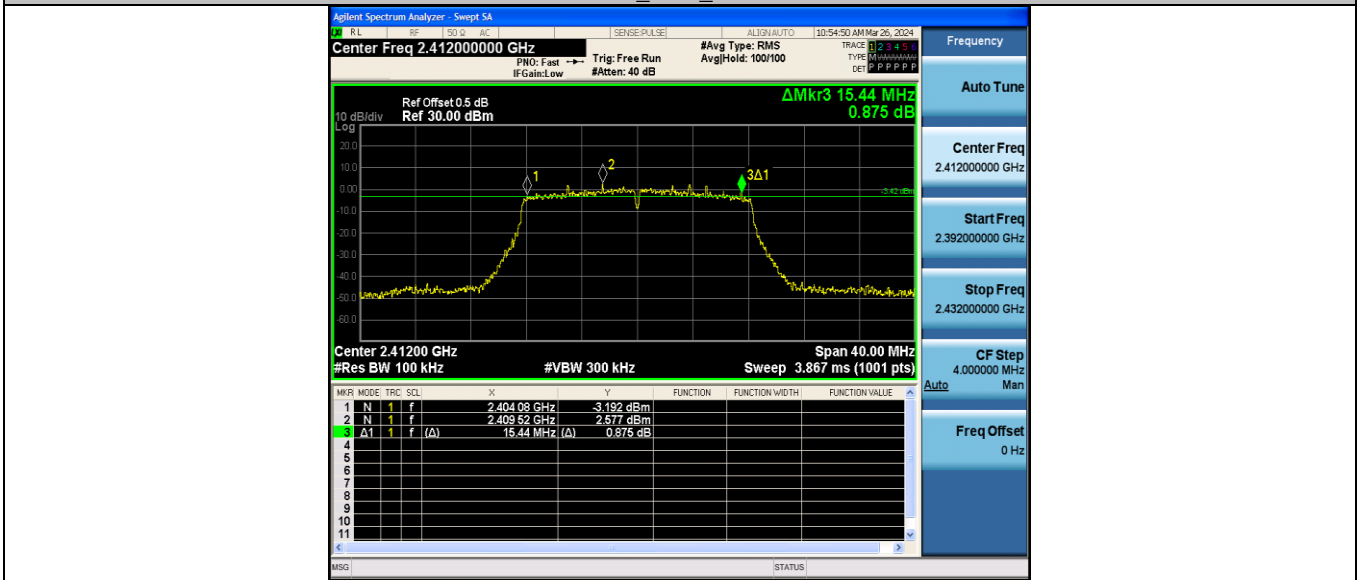
11B_Ant2_2462



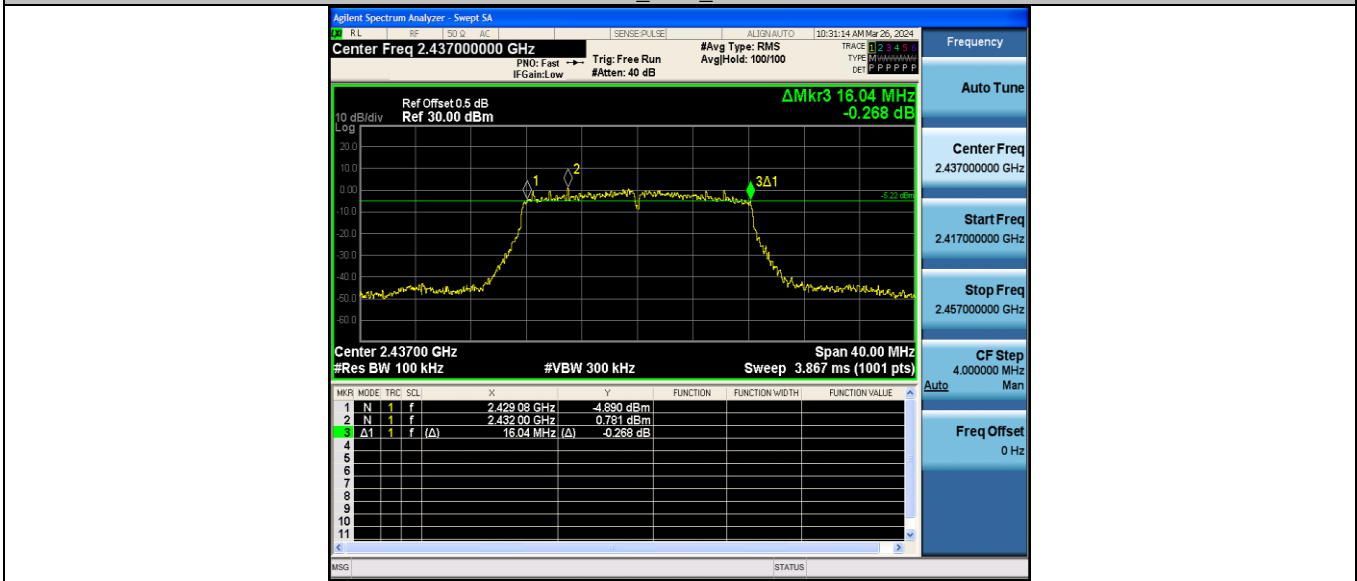
11G_Ant1_2412



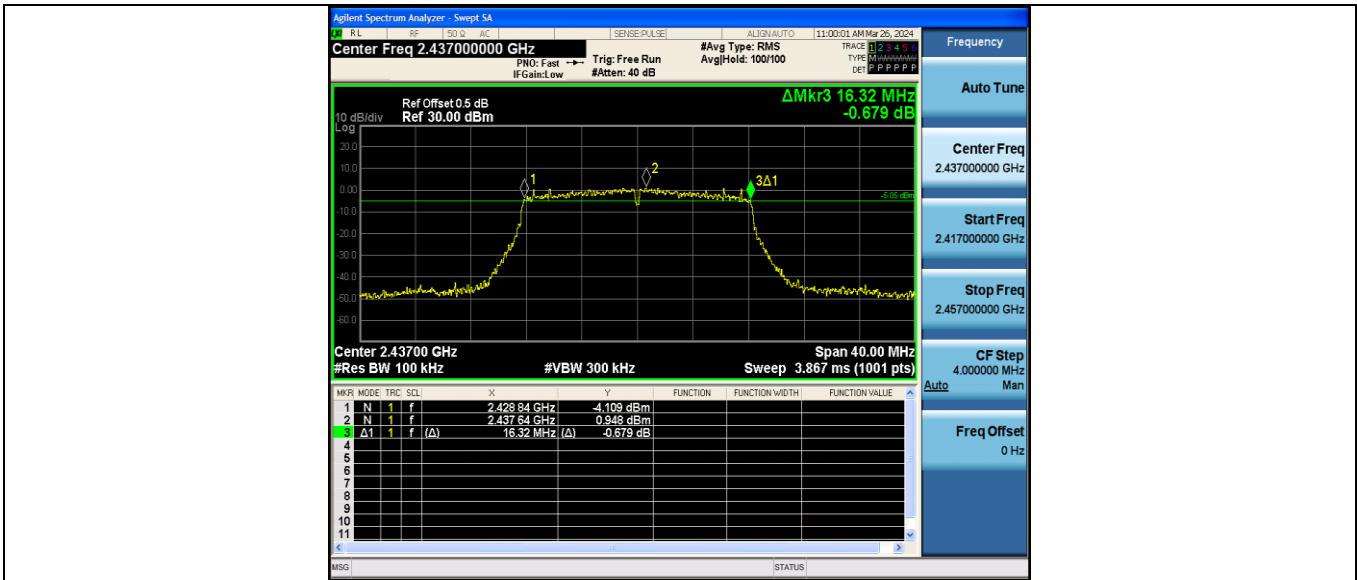
11G_Ant2_2412



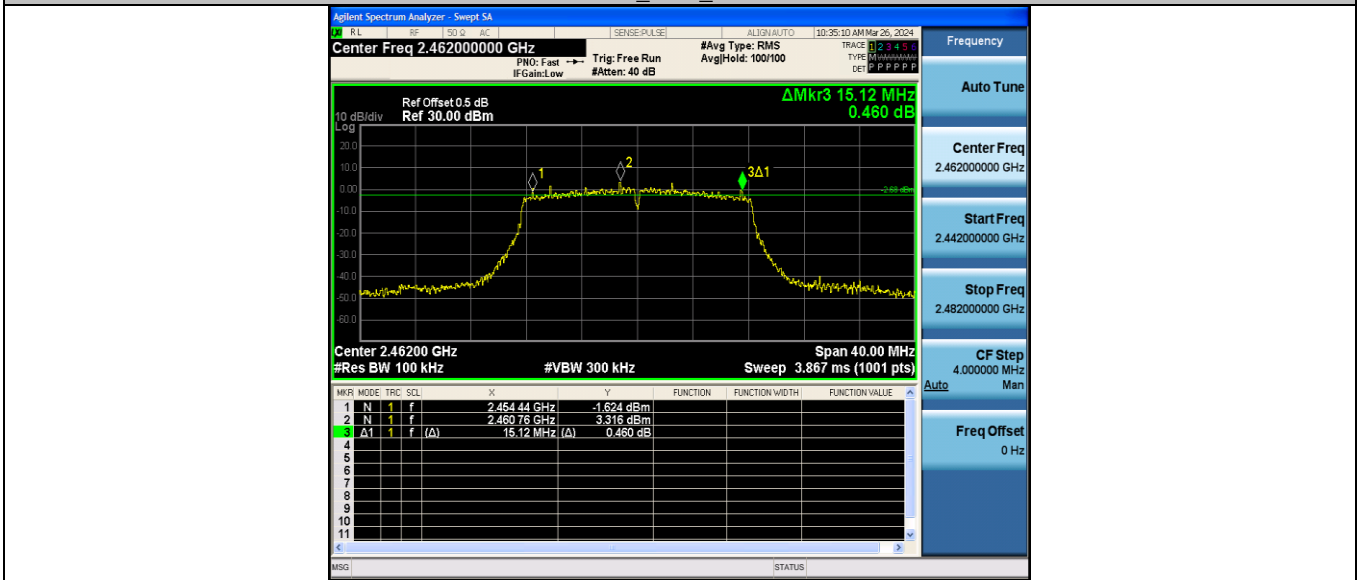
11G_Ant1_2437



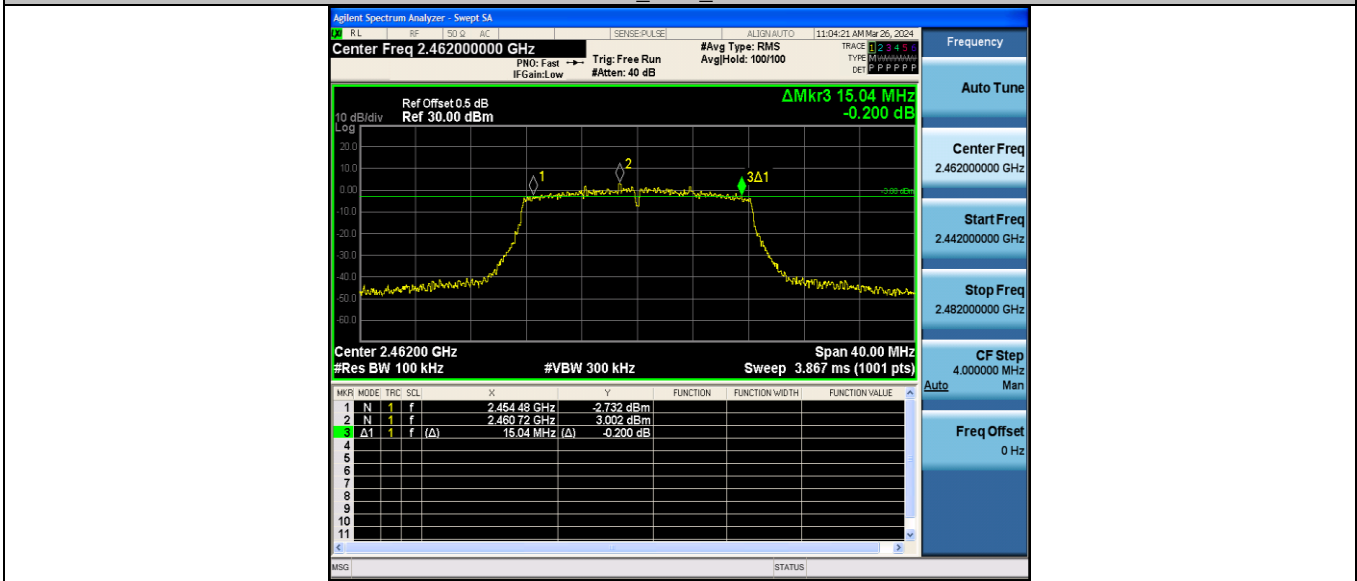
11G_Ant2_2437



11G_Ant1_2462

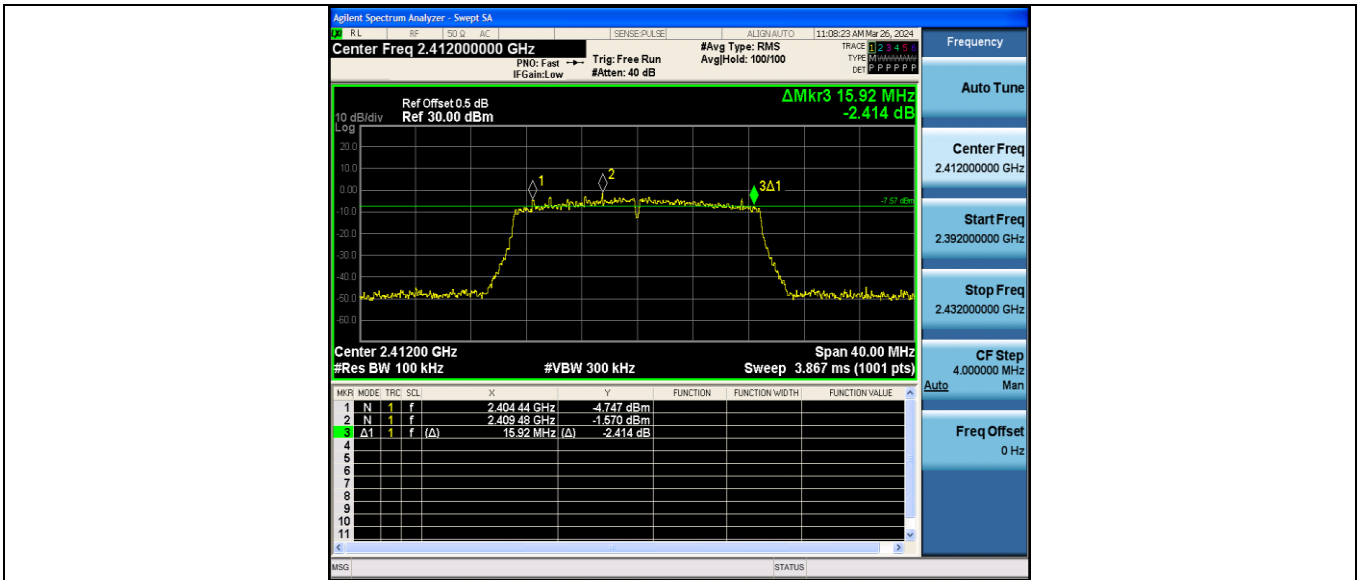


11G_Ant2_2462

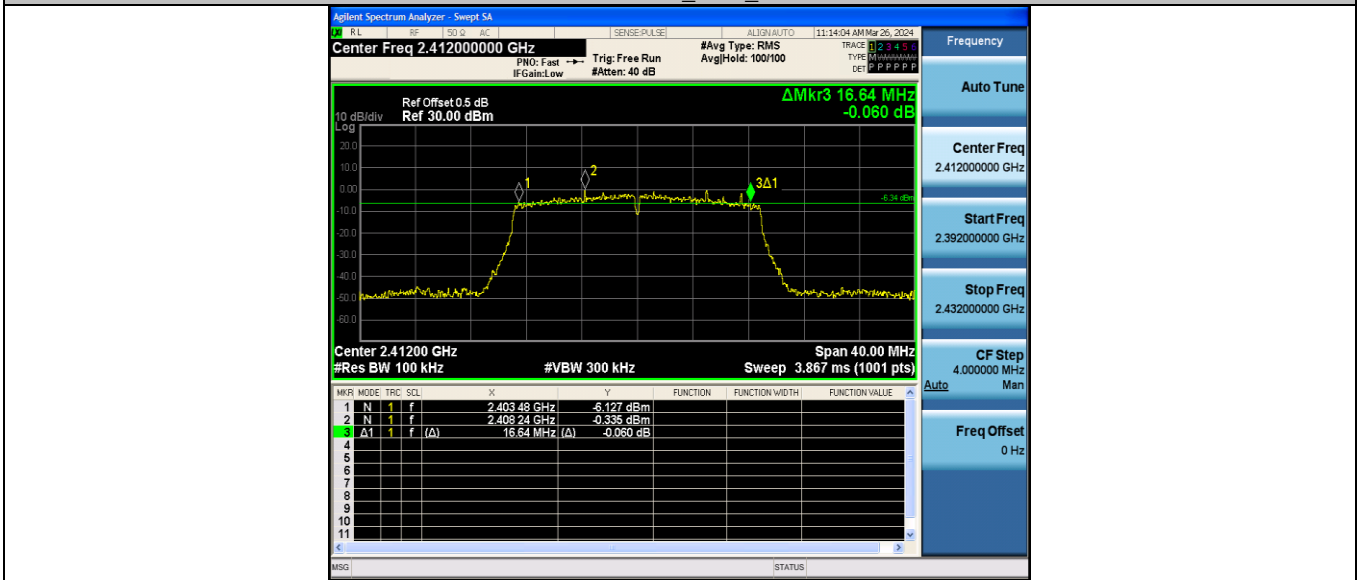


11N20MIMO_Ant1_2412

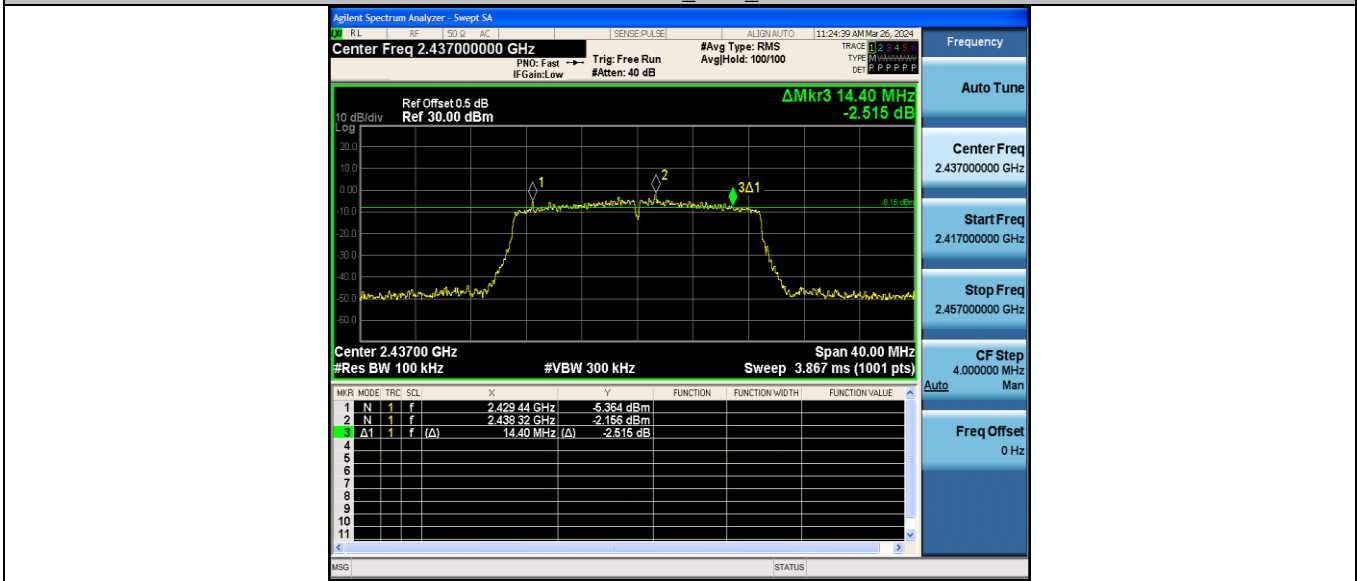




11N20MIMO_Ant2_2412

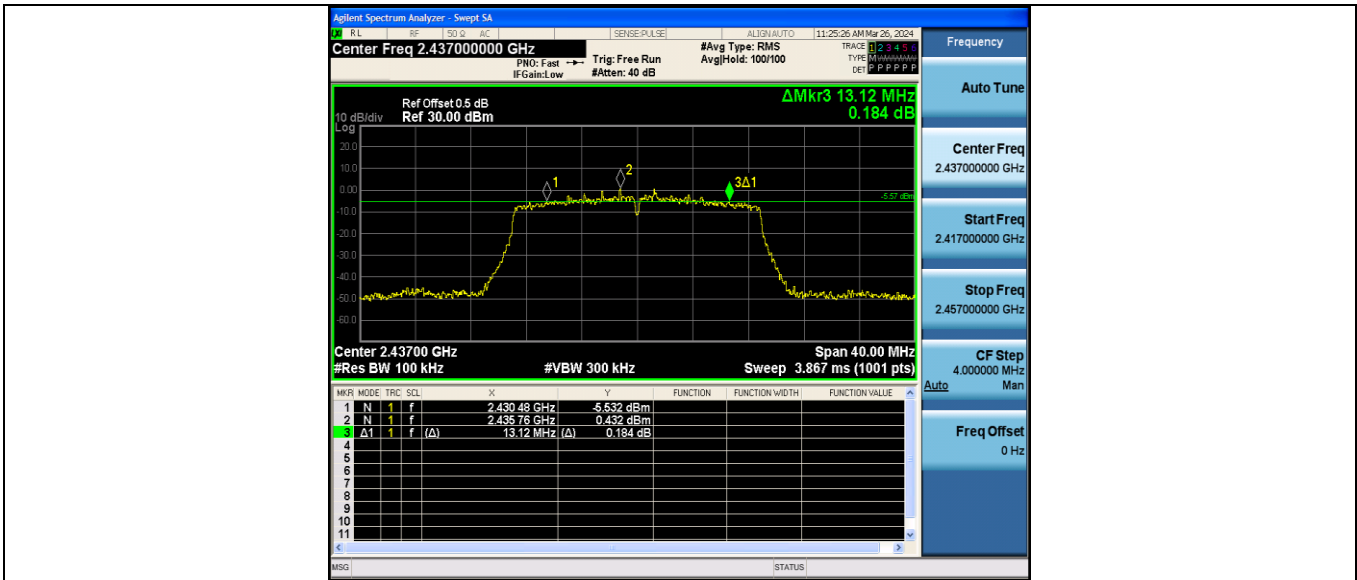


11N20MIMO_Ant1_2437

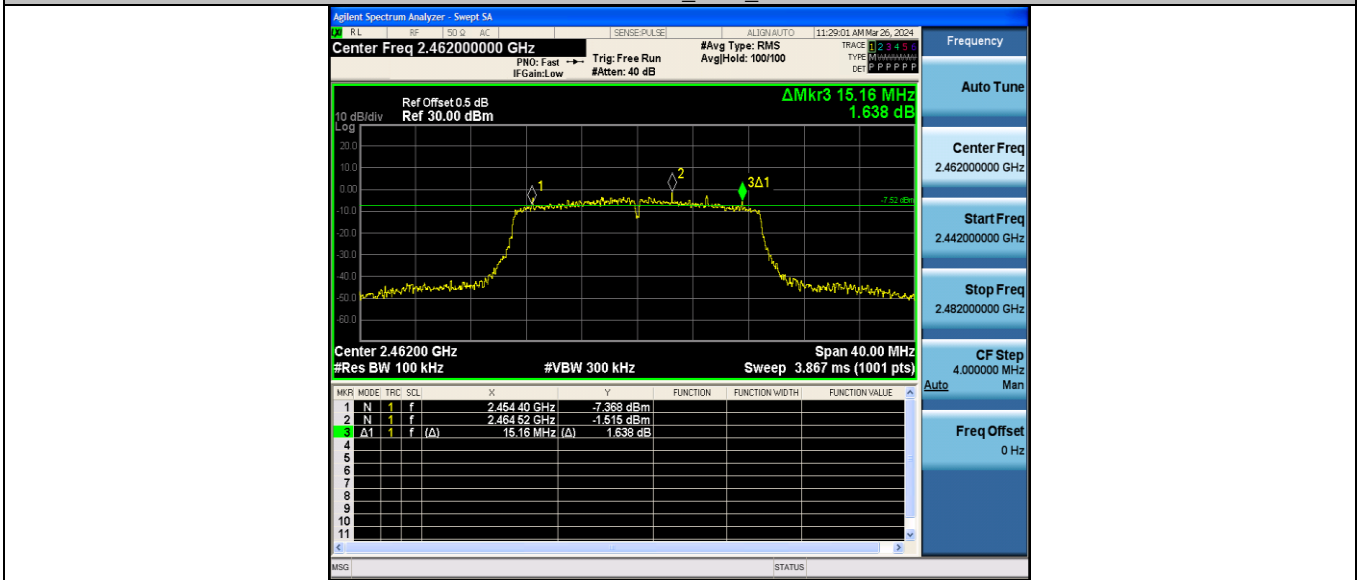


11N20MIMO_Ant2_2437

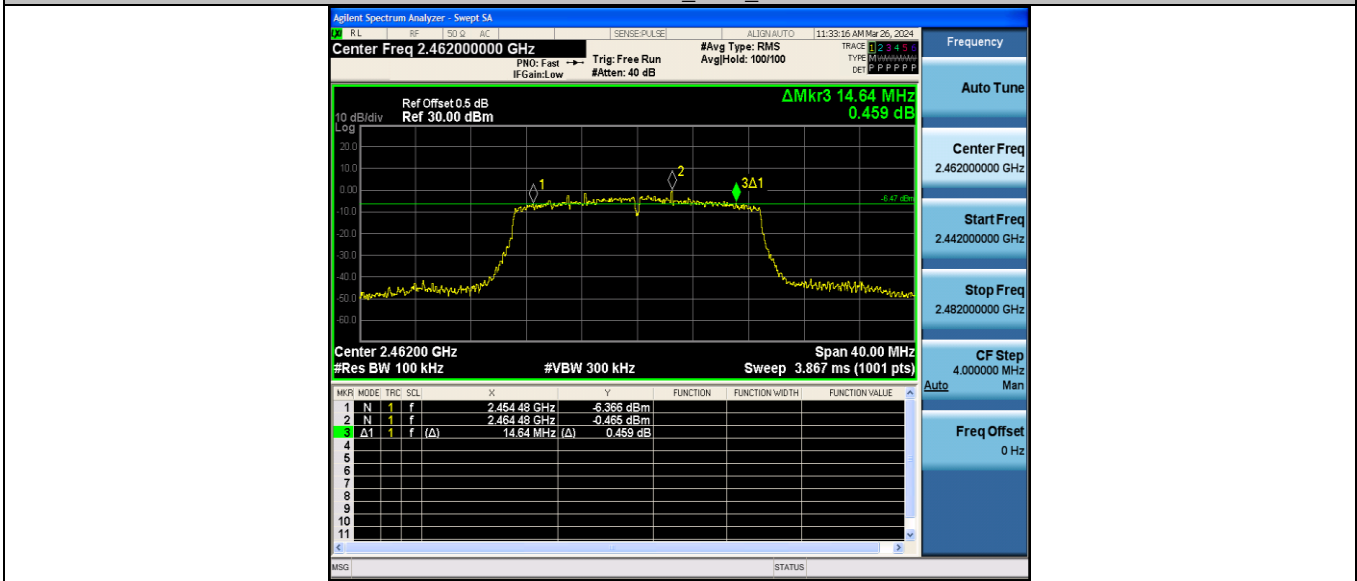




11N20MIMO_Ant1_2462

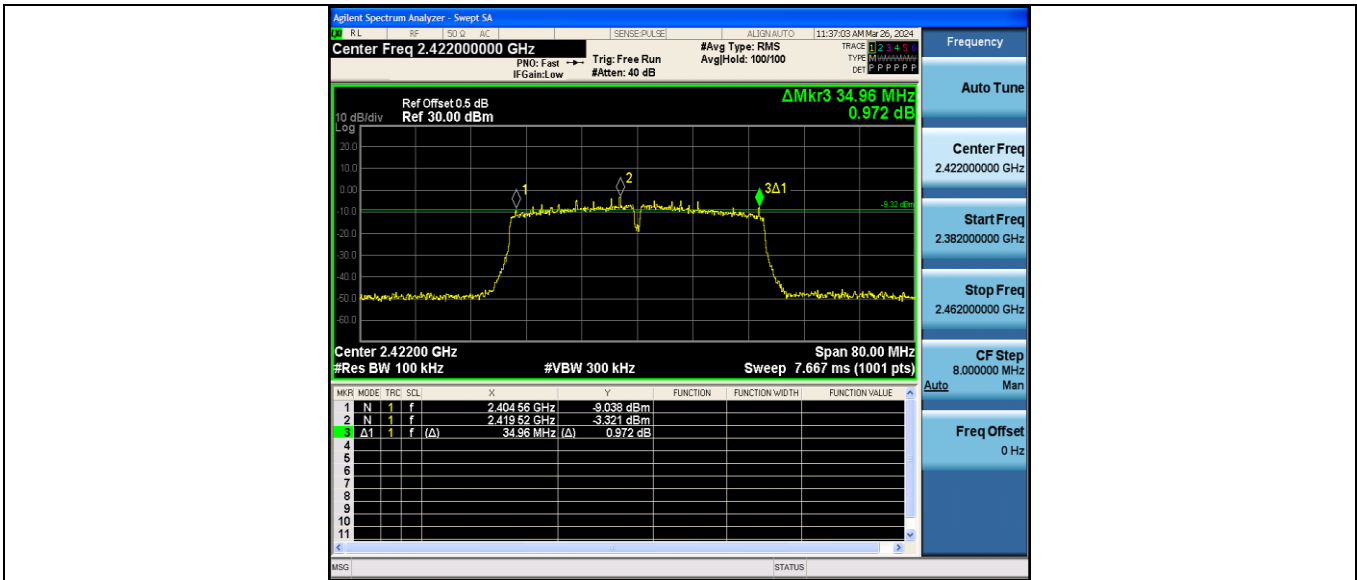


11N20MIMO_Ant2_2462

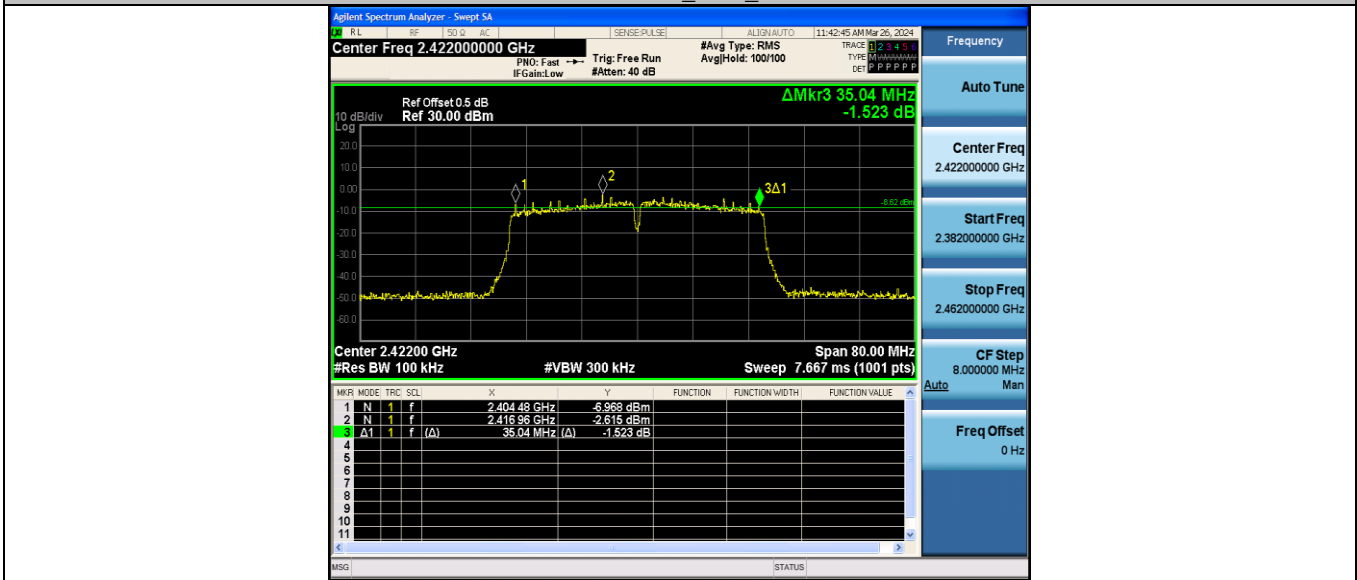


11N40MIMO_Ant1_2422

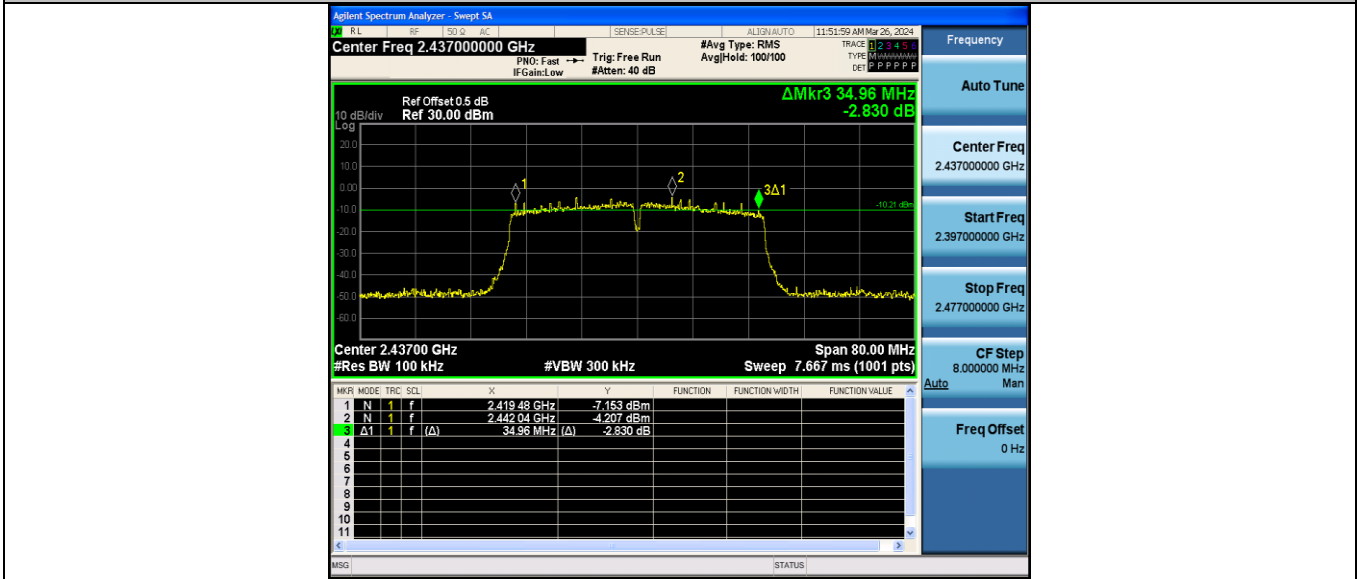




11N40MIMO_Ant2_2422

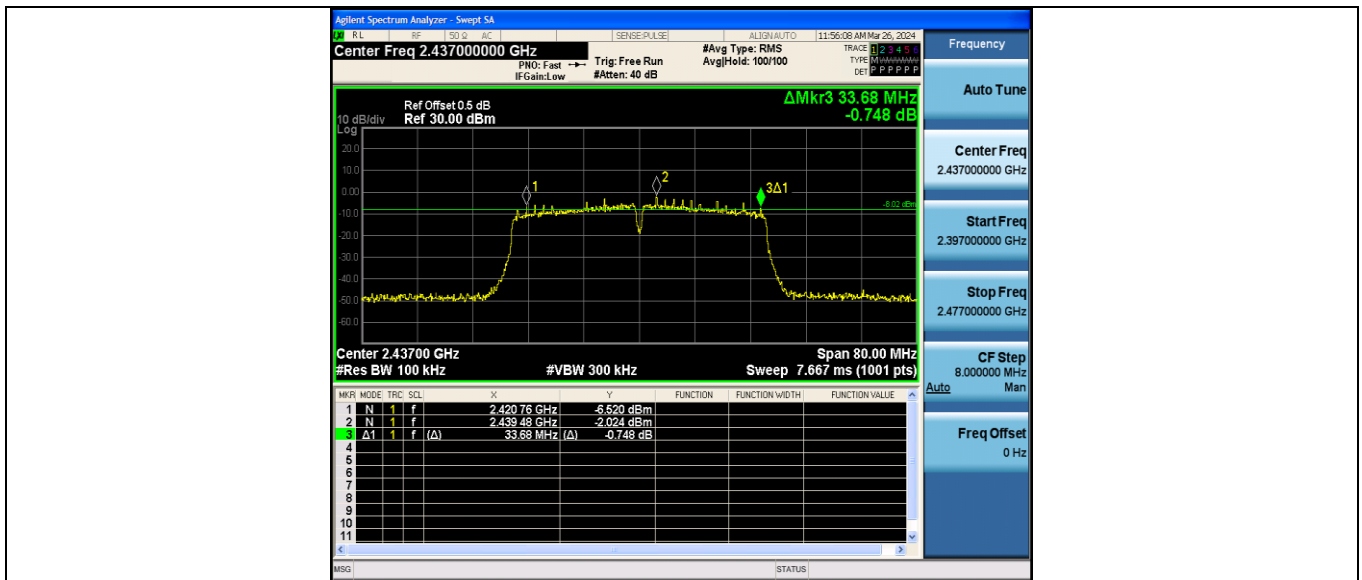


11N40MIMO_Ant1_2437

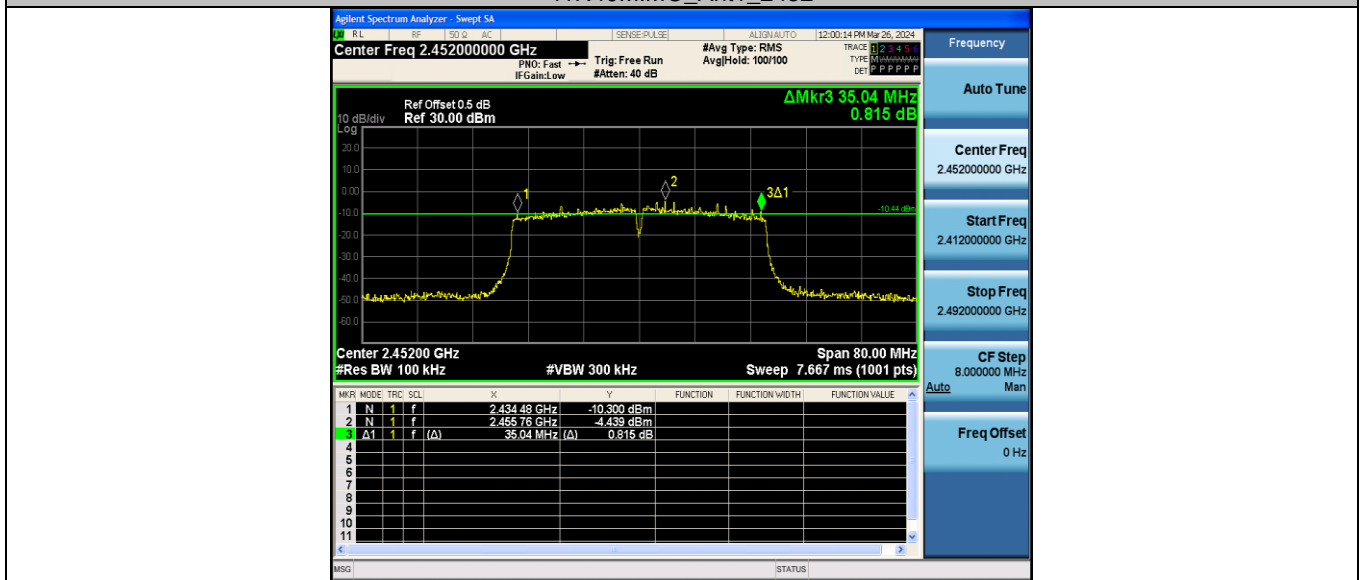


11N40MIMO_Ant2_2437

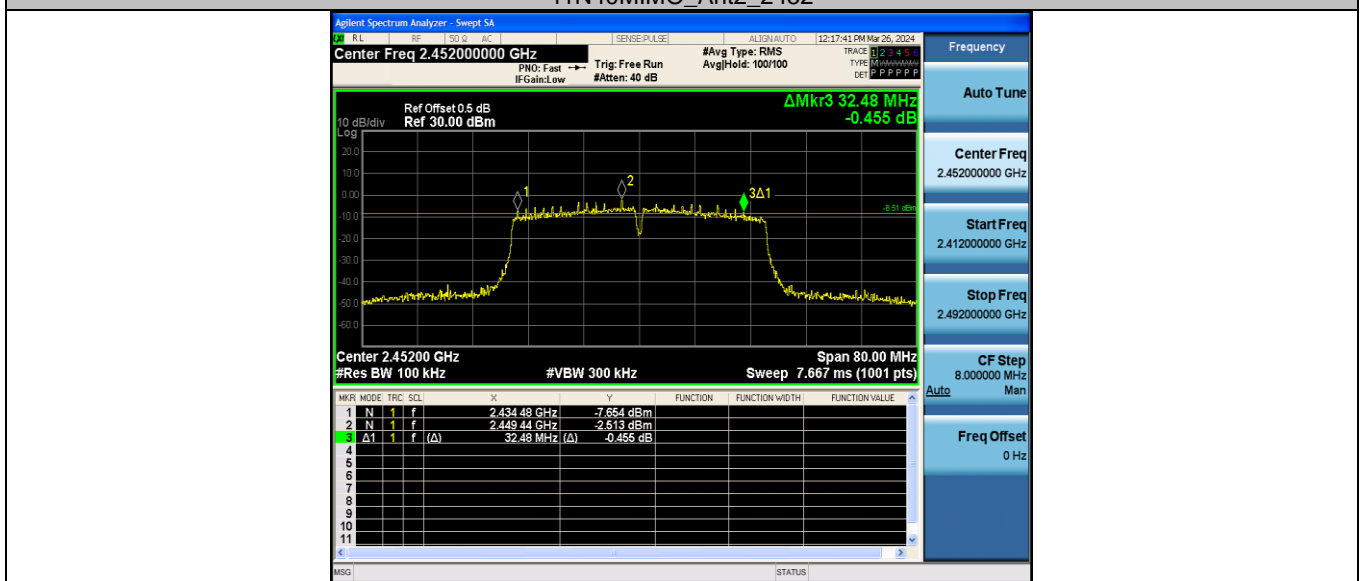




11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452





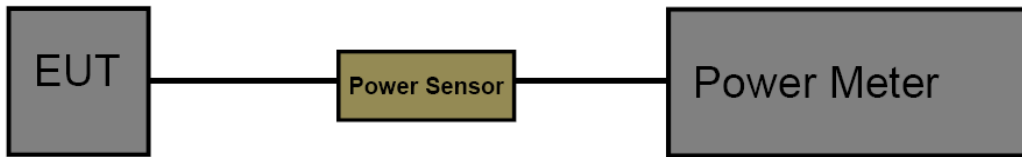
3.6. Peak Output Power

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 Part15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	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 maximum 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]	Peak Output Power[dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	16.35	≤29.36	PASS
	Ant2	2412	16.91	≤29.36	PASS
	Ant1	2437	17.01	≤29.36	PASS
	Ant2	2437	17.00	≤29.36	PASS
	Ant1	2462	16.67	≤29.36	PASS
	Ant2	2462	17.54	≤29.36	PASS
11G	Ant1	2412	19.47	≤29.36	PASS
	Ant2	2412	20.80	≤29.36	PASS
	Ant1	2437	19.95	≤29.36	PASS
	Ant2	2437	21.11	≤29.36	PASS
	Ant1	2462	20.79	≤29.36	PASS
	Ant2	2462	21.27	≤29.36	PASS
11N20MIMO	Ant1	2412	16.58	≤29.36	PASS
	Ant2	2412	18.23	≤29.36	PASS
	total	2412	20.49	≤29.36	PASS
	Ant1	2437	16.07	≤29.36	PASS
	Ant2	2437	17.29	≤29.36	PASS
	total	2437	19.73	≤29.36	PASS
	Ant1	2462	16.14	≤29.36	PASS
	Ant2	2462	16.97	≤29.36	PASS
total	2462	19.59	≤29.36	PASS	
11N40MIMO	Ant1	2422	16.65	≤29.36	PASS
	Ant2	2422	17.83	≤29.36	PASS
	total	2422	20.29	≤29.36	PASS
	Ant1	2437	16.53	≤29.36	PASS
	Ant2	2437	17.76	≤29.36	PASS
	total	2437	20.20	≤29.36	PASS
	Ant1	2452	15.88	≤29.36	PASS
	Ant2	2452	17.50	≤29.36	PASS
total	2452	19.78	≤29.36	PASS	



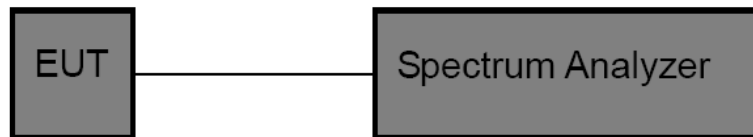
3.7. Power Spectral Density

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 DTS channel center frequency.
 Set the span to 1.5 times the DTS bandwidth.
 Set the RBW to: 3 kHz.
 Set the VBW to: 10 kHz.
 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**

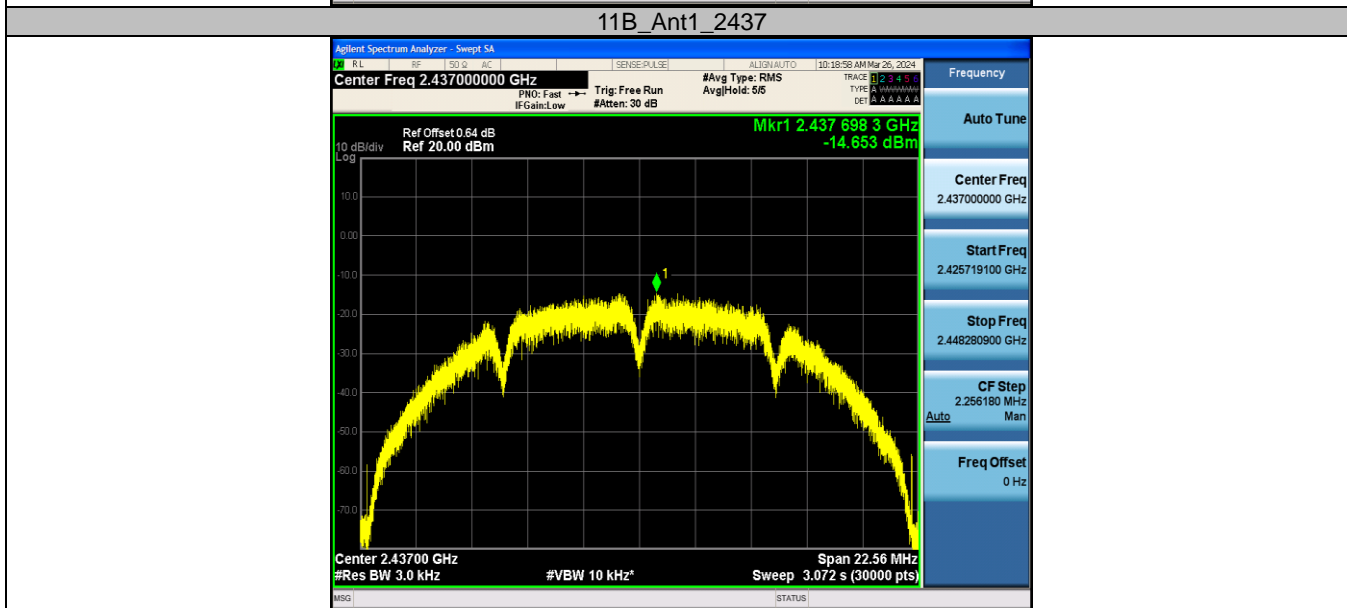
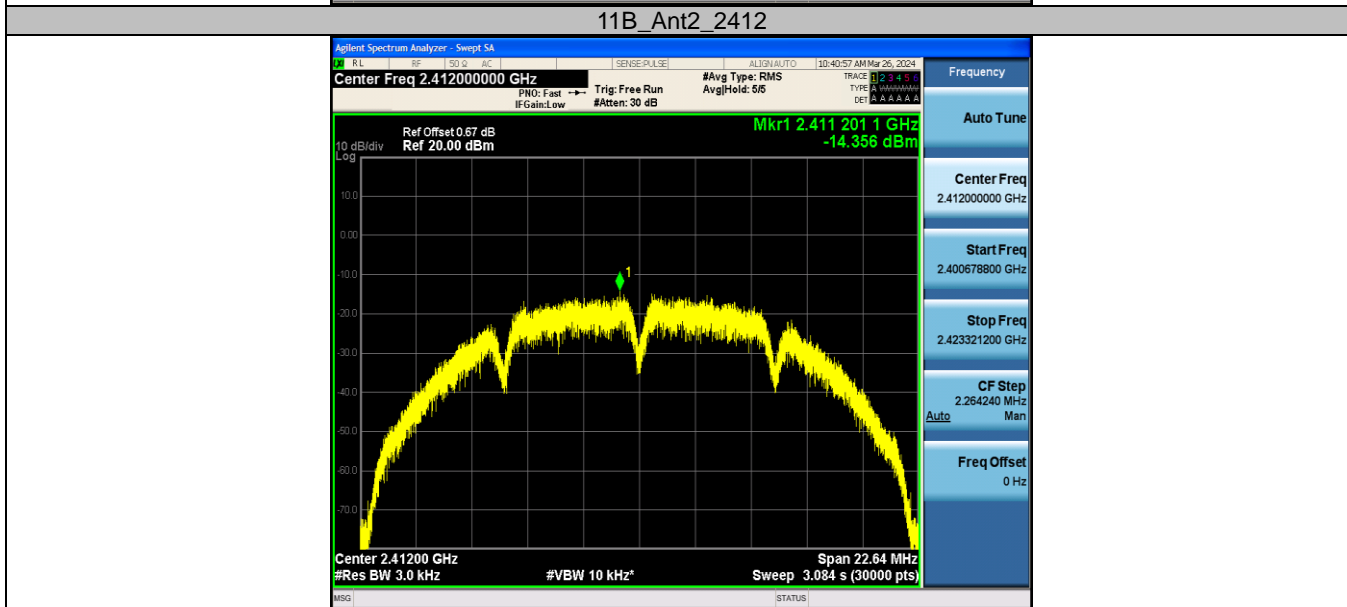
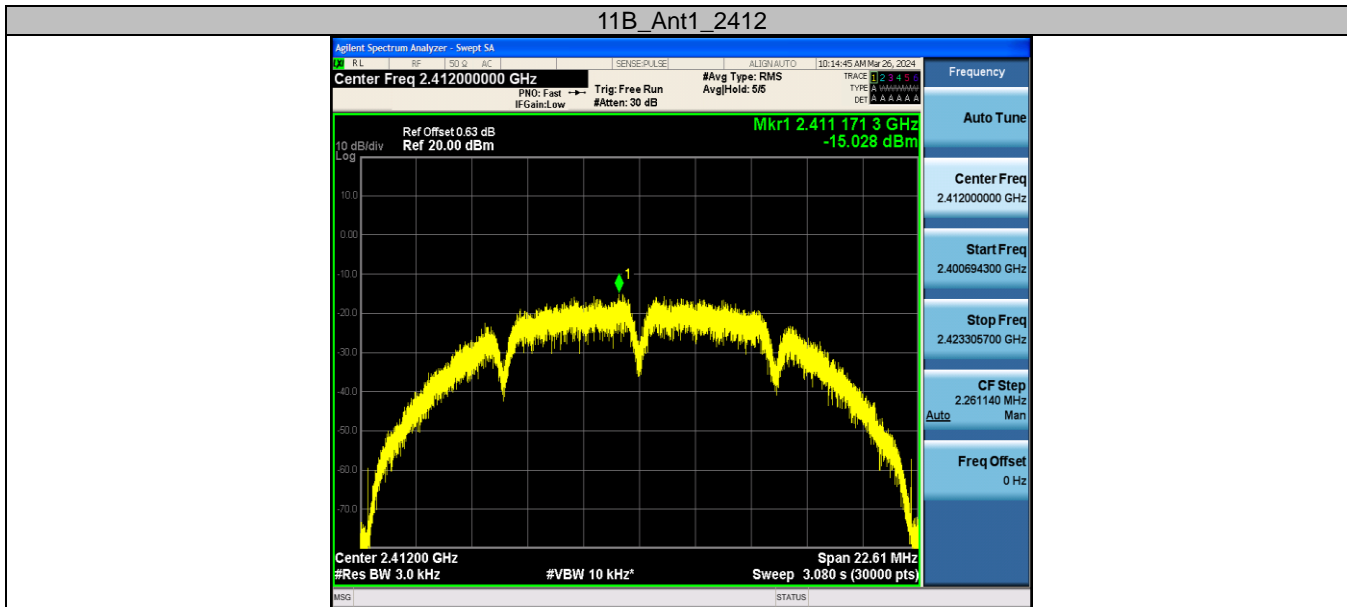
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.03	≤7.36	PASS
	Ant2	2412	-14.36	≤7.36	PASS
	Ant1	2437	-14.65	≤7.36	PASS
	Ant2	2437	-14.26	≤7.36	PASS
	Ant1	2462	-15.31	≤7.36	PASS
	Ant2	2462	-14.58	≤7.36	PASS
11G	Ant1	2412	-15.67	≤7.36	PASS
	Ant2	2412	-14.22	≤7.36	PASS
	Ant1	2437	-14.05	≤7.36	PASS
	Ant2	2437	-12.38	≤7.36	PASS
	Ant1	2462	-14.48	≤7.36	PASS
	Ant2	2462	-14.13	≤7.36	PASS
11N20MIMO	Ant1	2412	-18.04	≤7.36	PASS
	Ant2	2412	-16.78	≤7.36	PASS
	total	2412	-14.35	≤7.36	PASS
	Ant1	2437	-20.08	≤7.36	PASS
	Ant2	2437	-17.20	≤7.36	PASS
	total	2437	-15.40	≤7.36	PASS
	Ant1	2462	-19.08	≤7.36	PASS
	Ant2	2462	-18.20	≤7.36	PASS
11N40MIMO	total	2462	-15.61	≤7.36	PASS
	Ant1	2422	-21.21	≤7.36	PASS
	Ant2	2422	-20.39	≤7.36	PASS
	total	2422	-17.77	≤7.36	PASS
	Ant1	2437	-21.55	≤7.36	PASS
	Ant2	2437	-20.69	≤7.36	PASS
	total	2437	-18.09	≤7.36	PASS
	Ant1	2452	-22.85	≤7.36	PASS
	Ant2	2452	-20.27	≤7.36	PASS
	total	2452	-18.36	≤7.36	PASS

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cnFor anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>

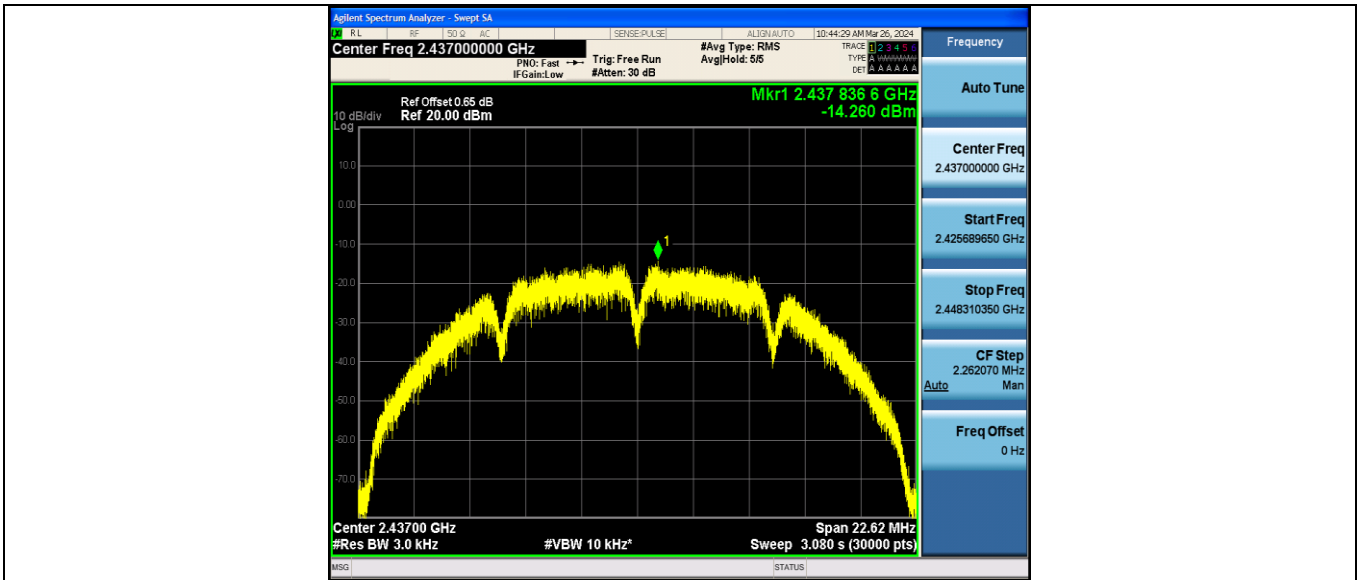


Test Graphs:

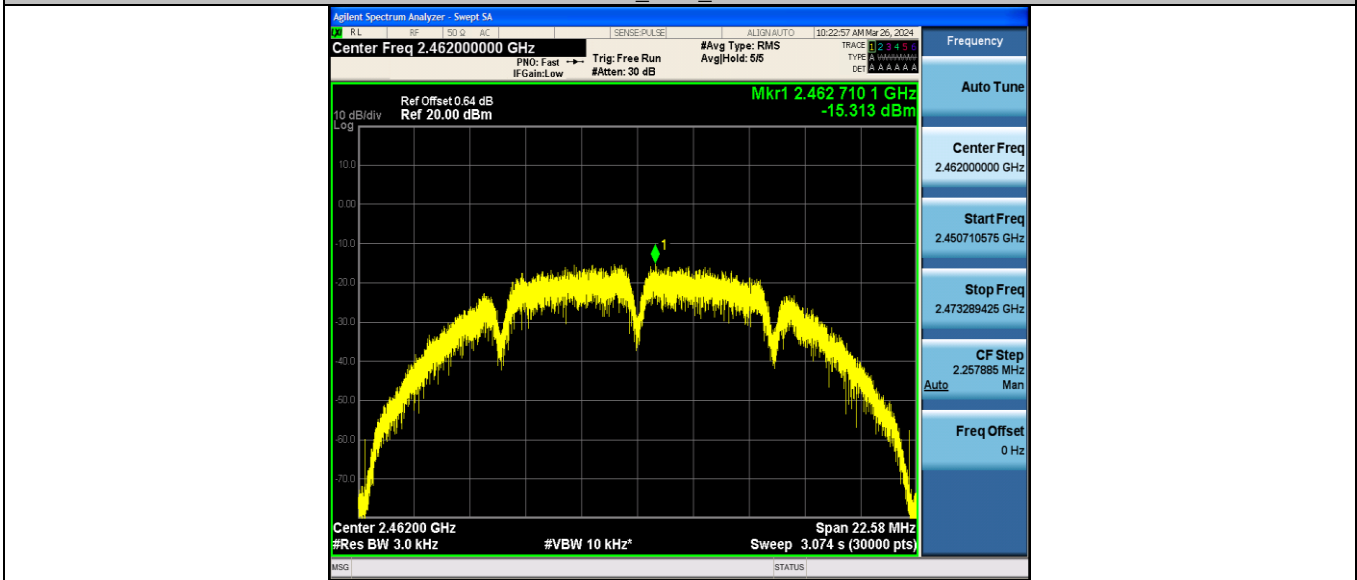


11B_Ant2_2437

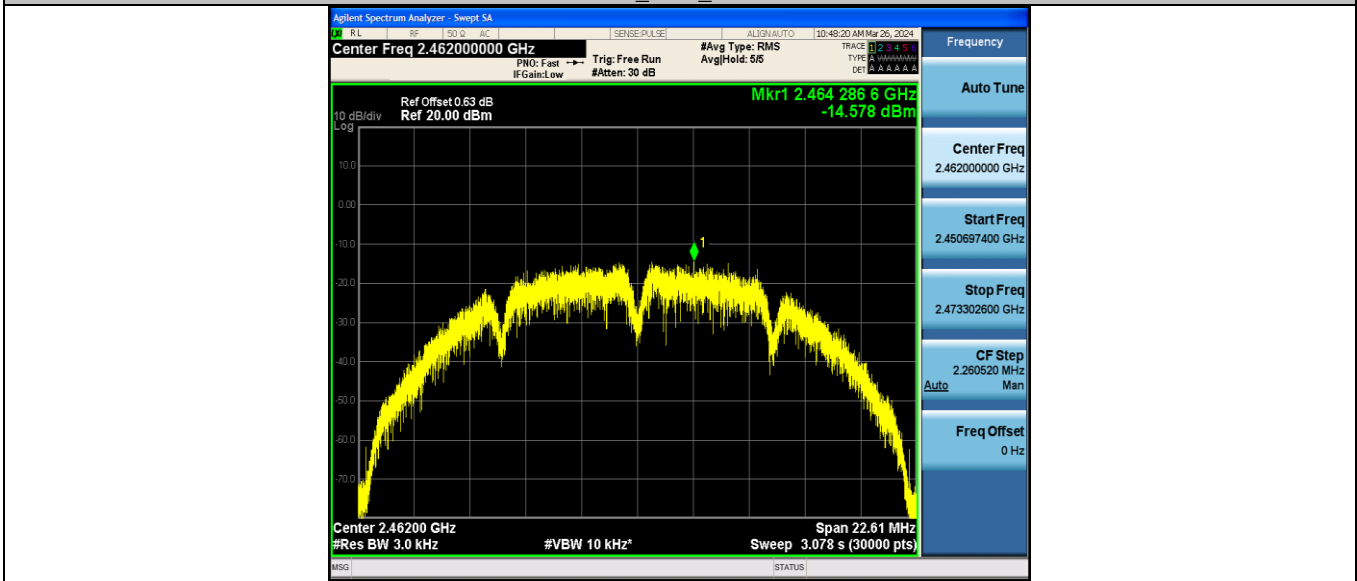




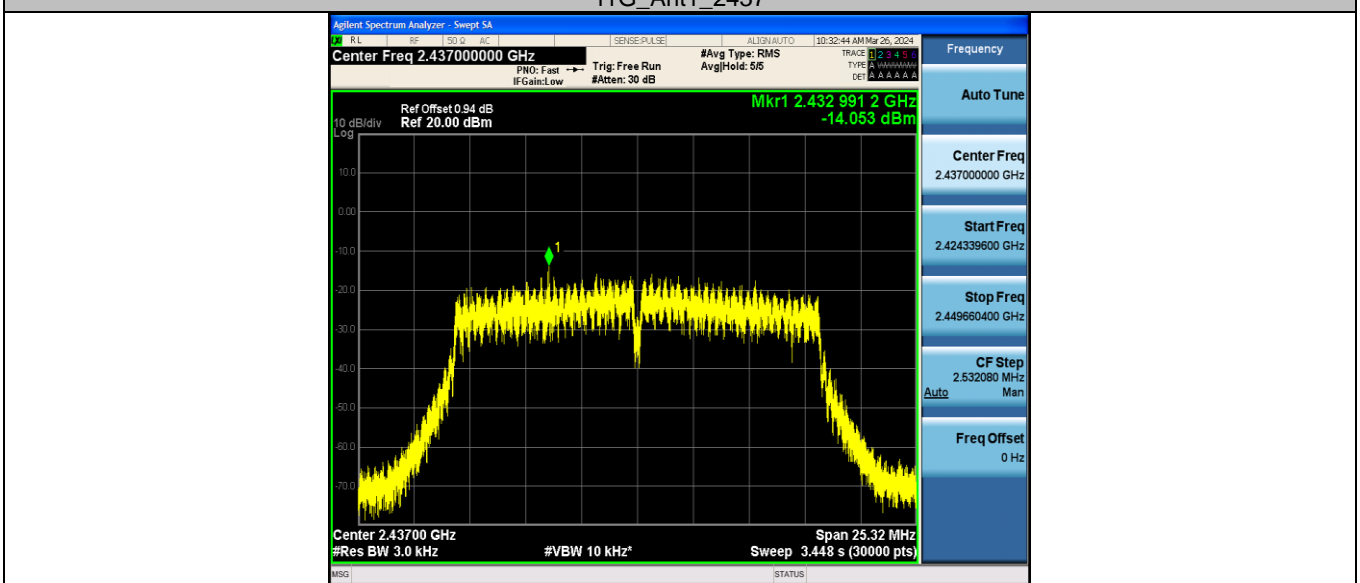
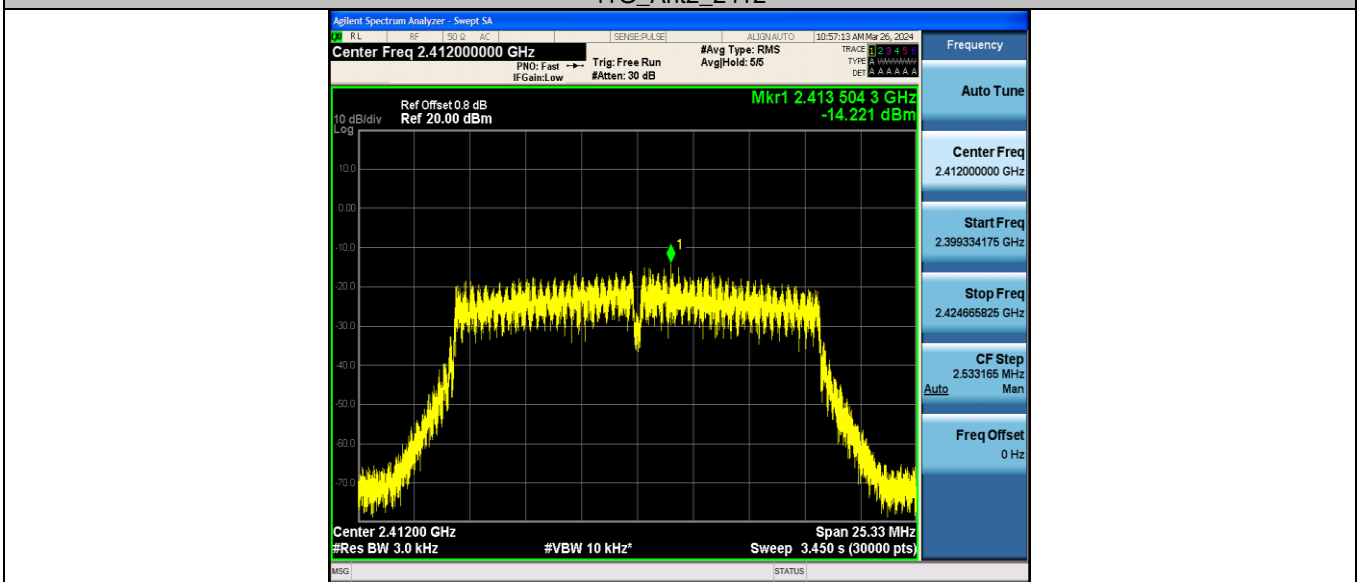
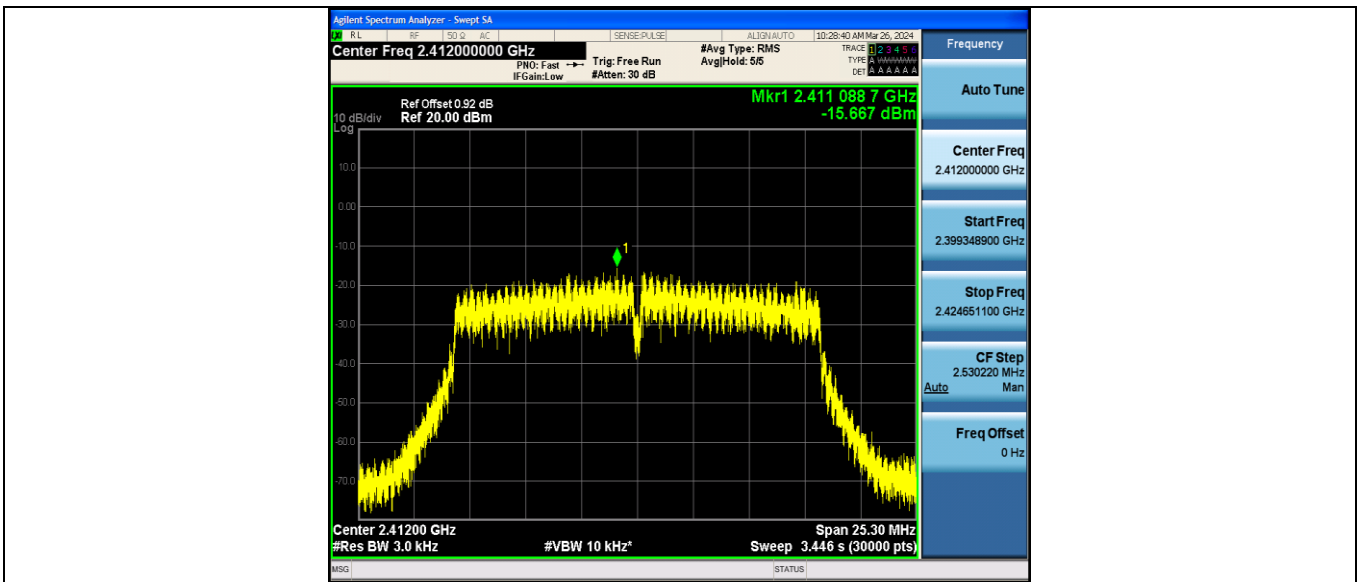
11B_Ant1_2462

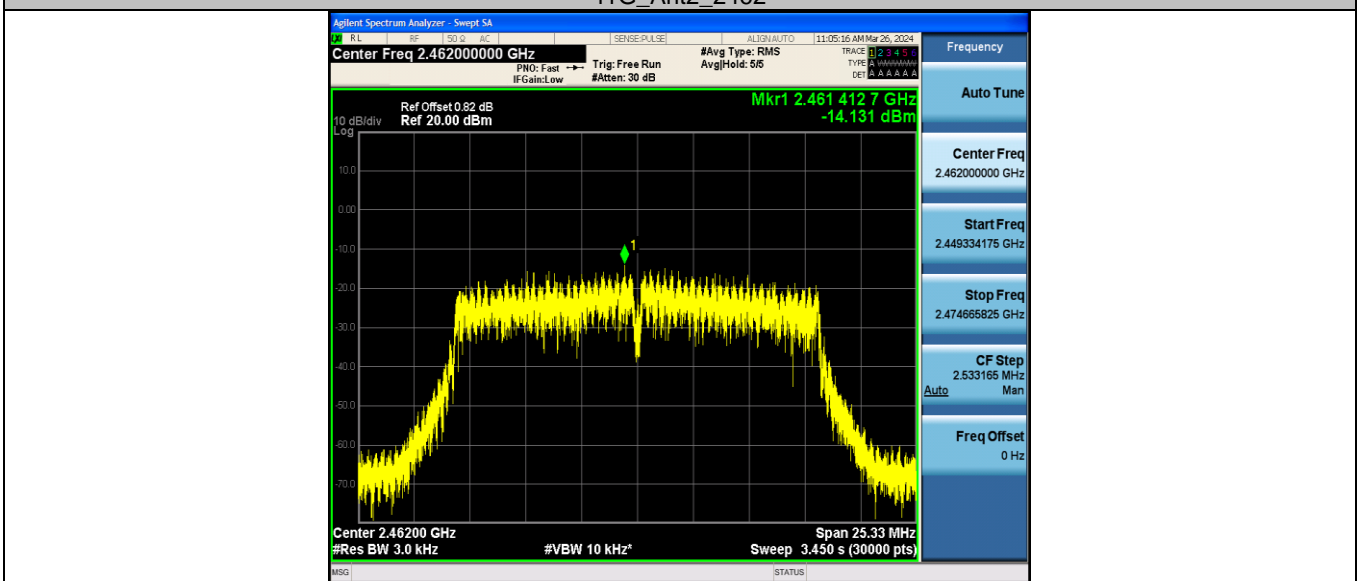
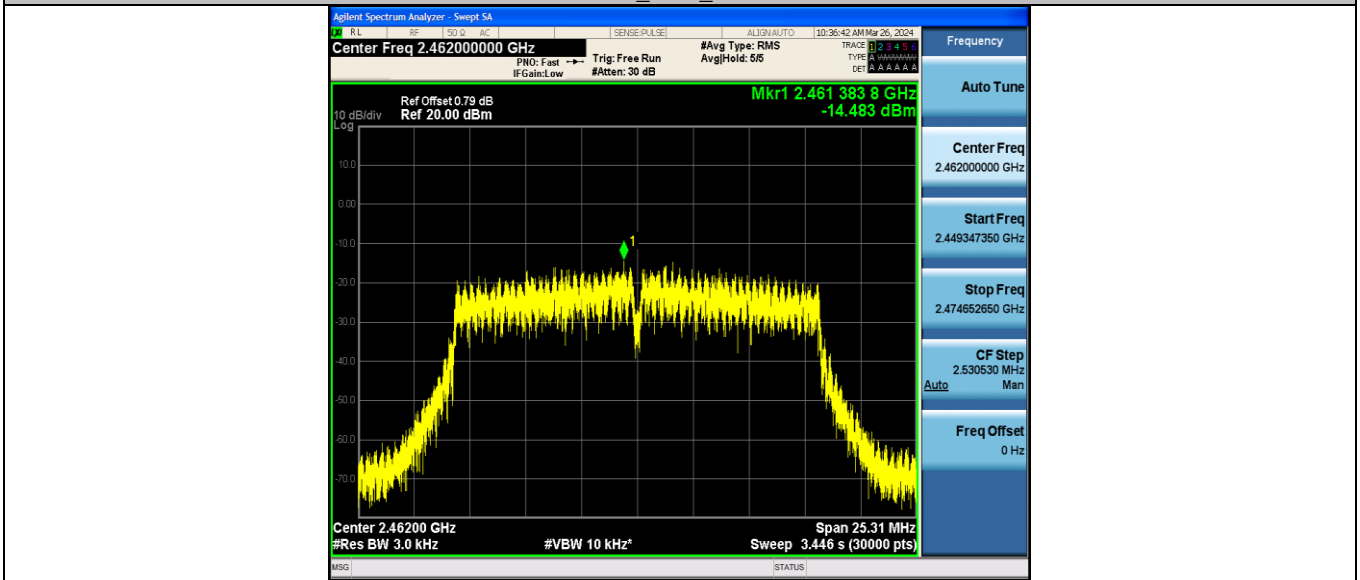
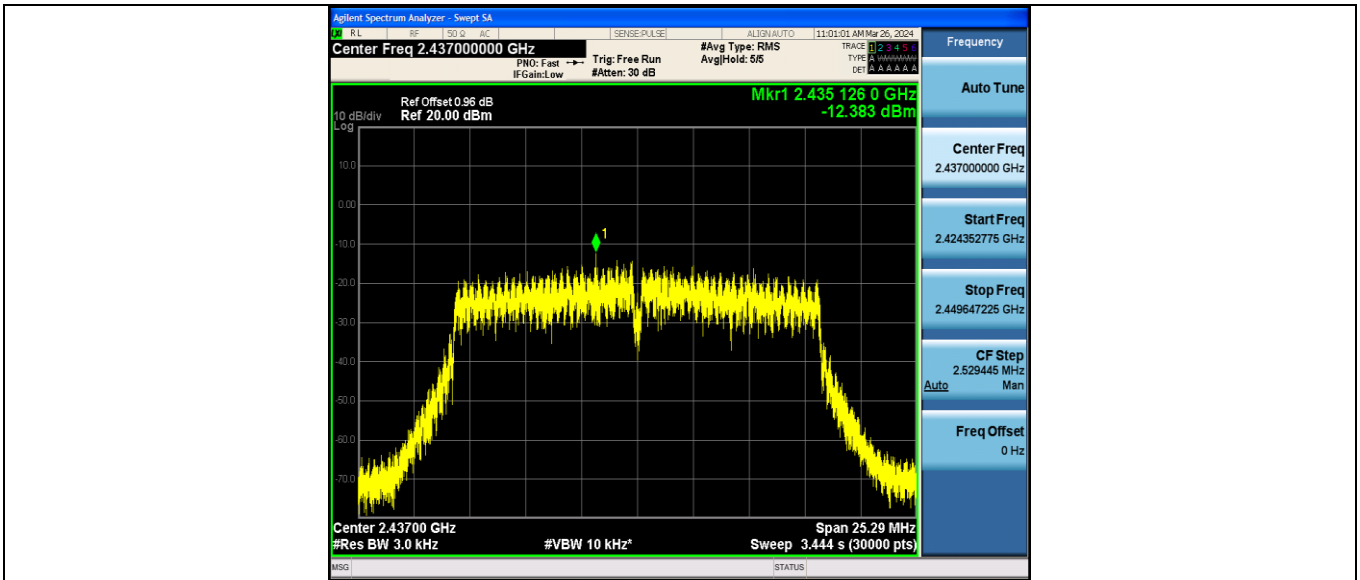


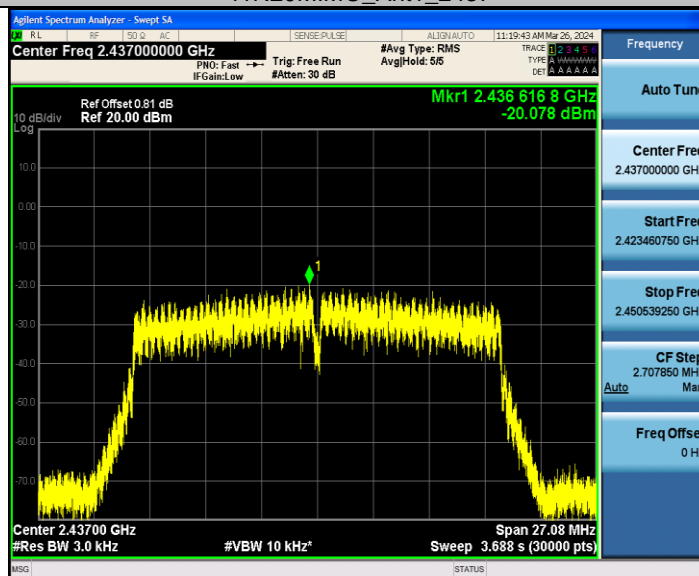
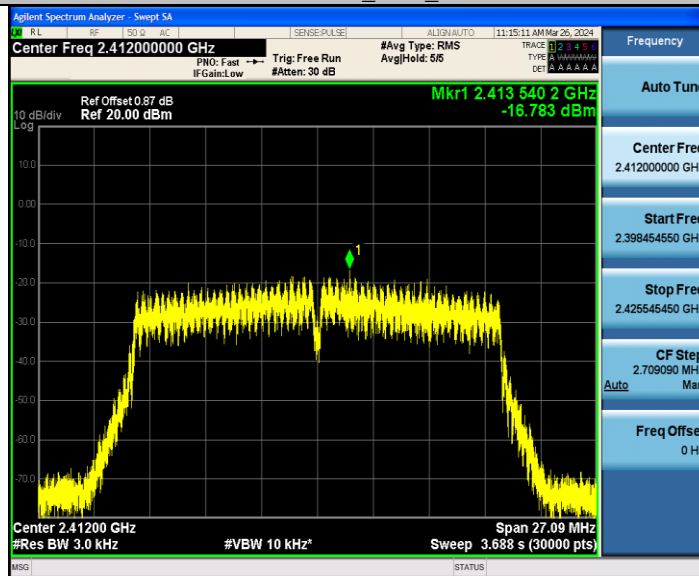
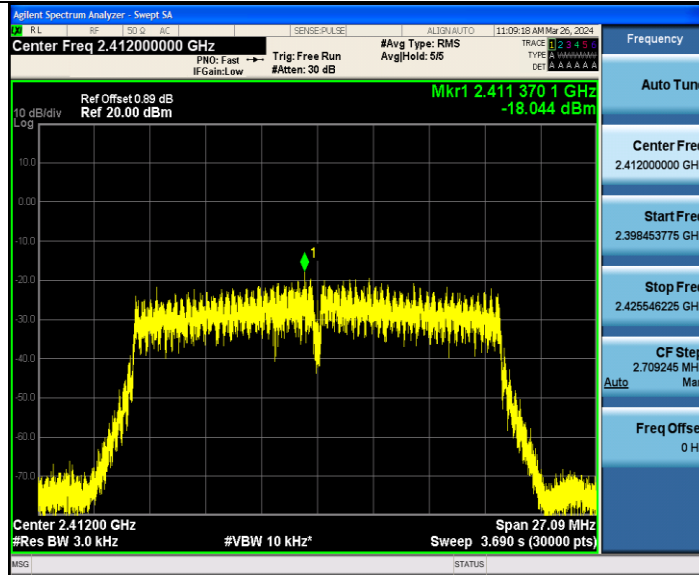
11B_Ant2_2462

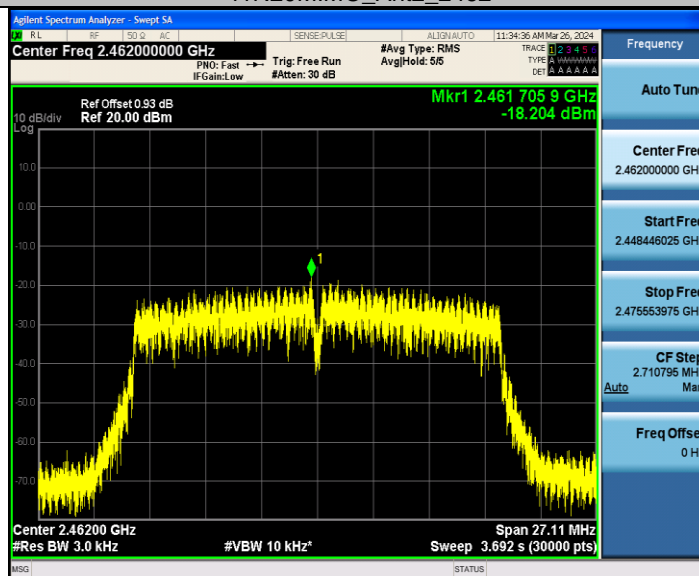
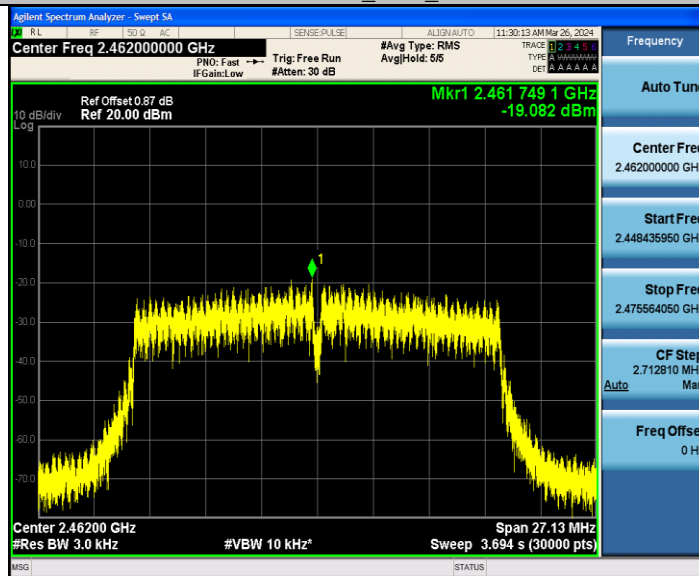
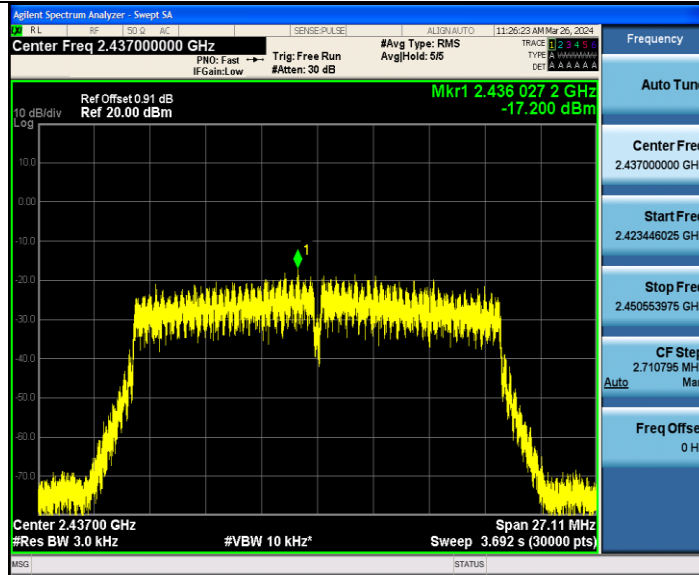


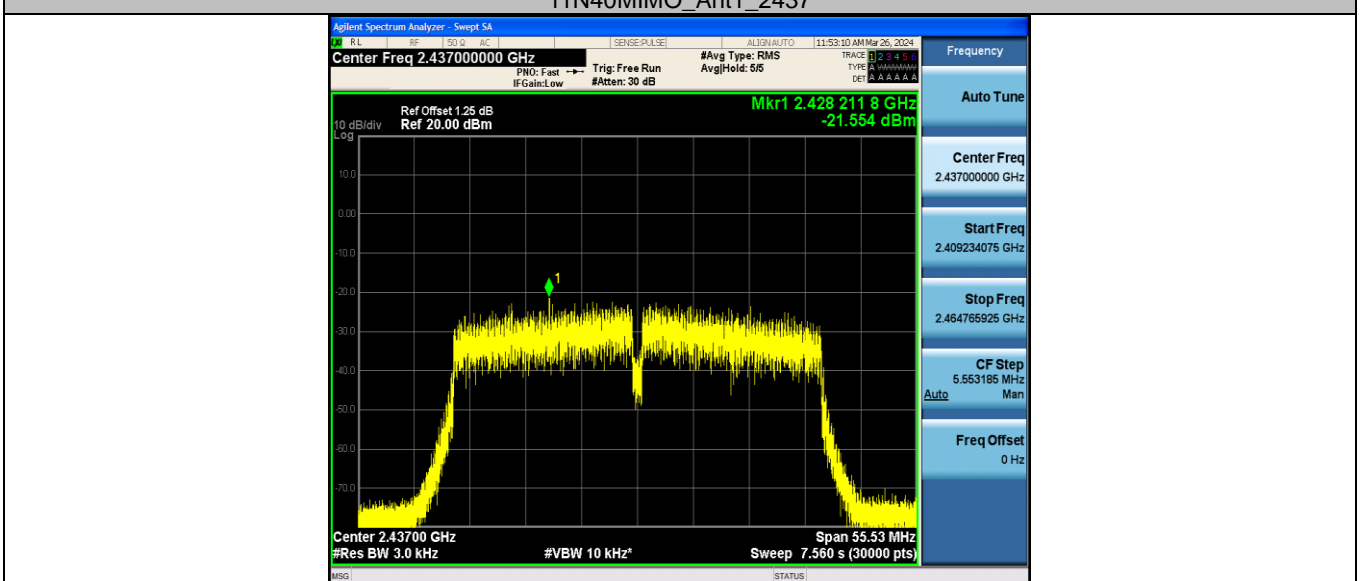
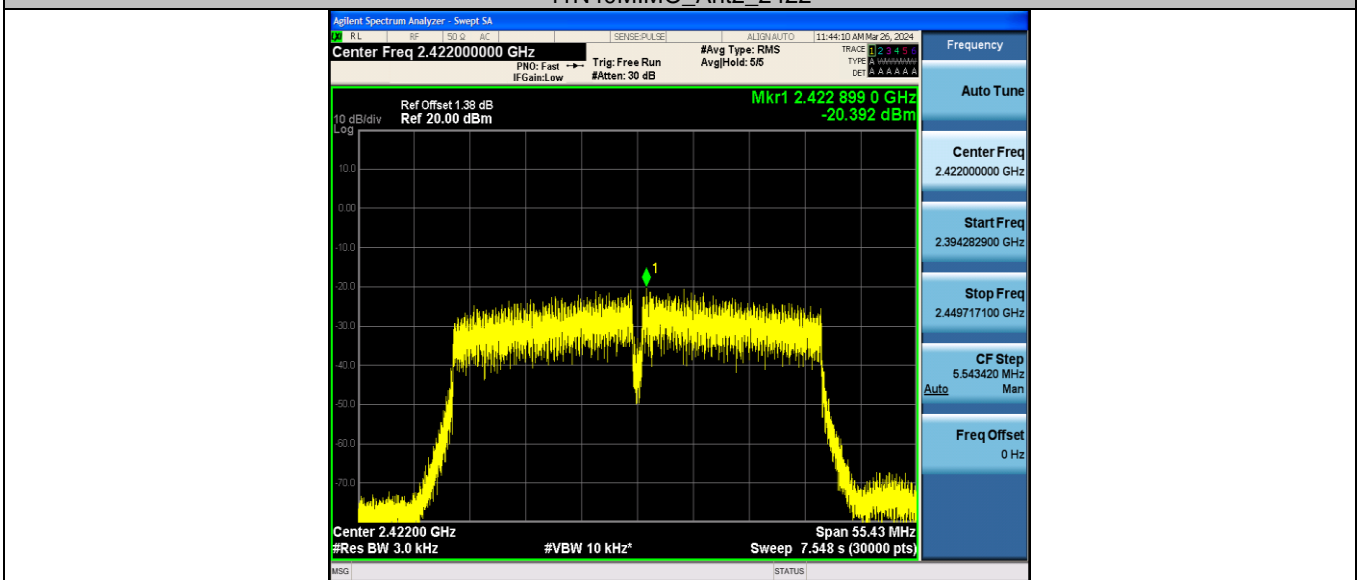
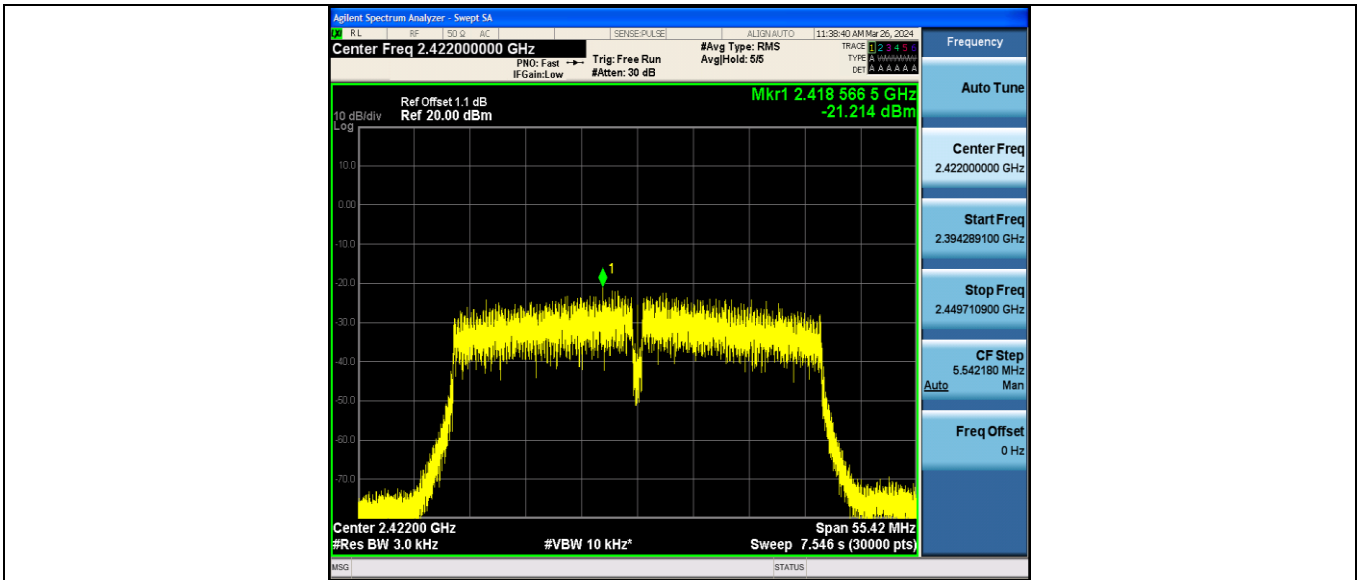
11G_Ant1_2412

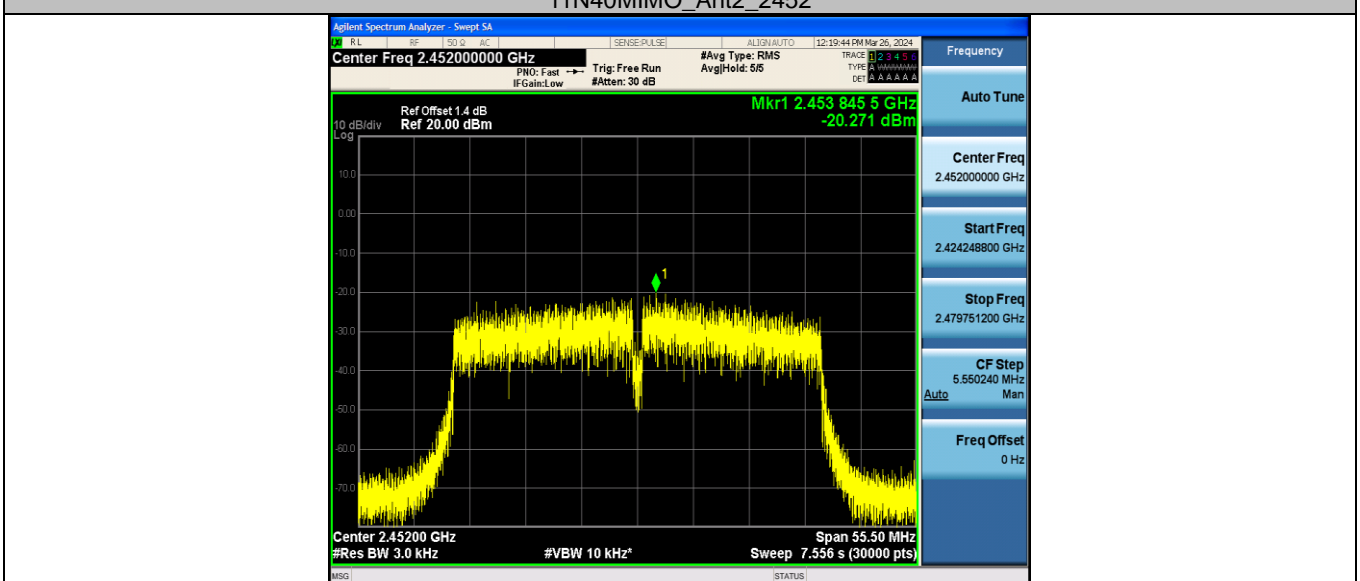
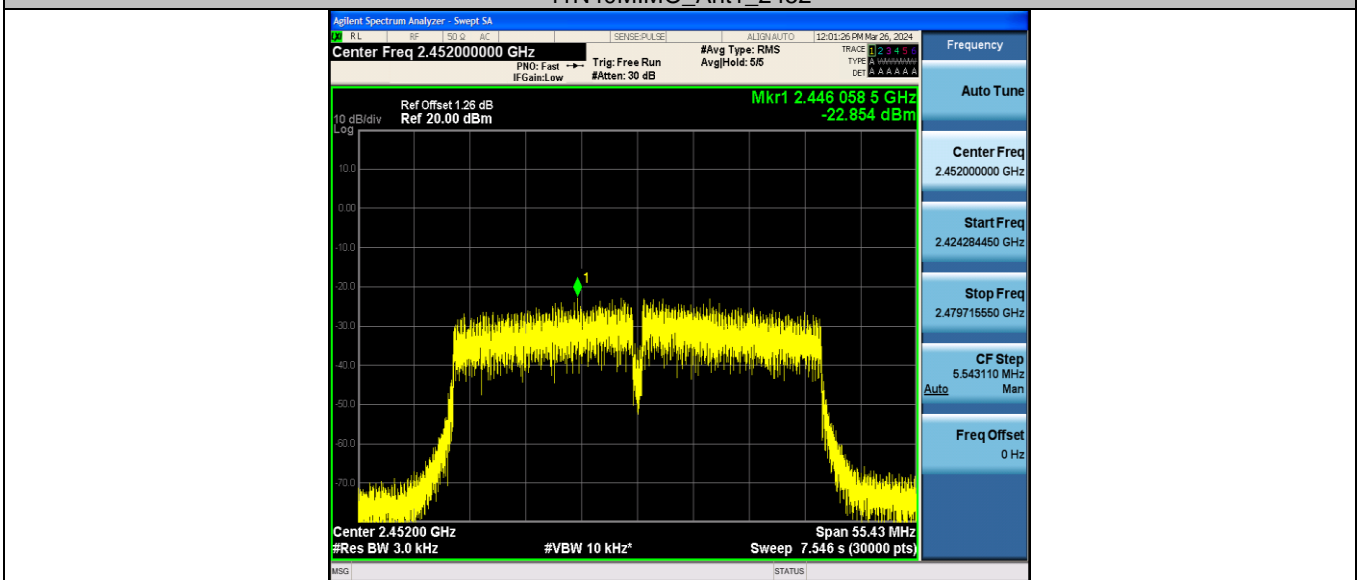
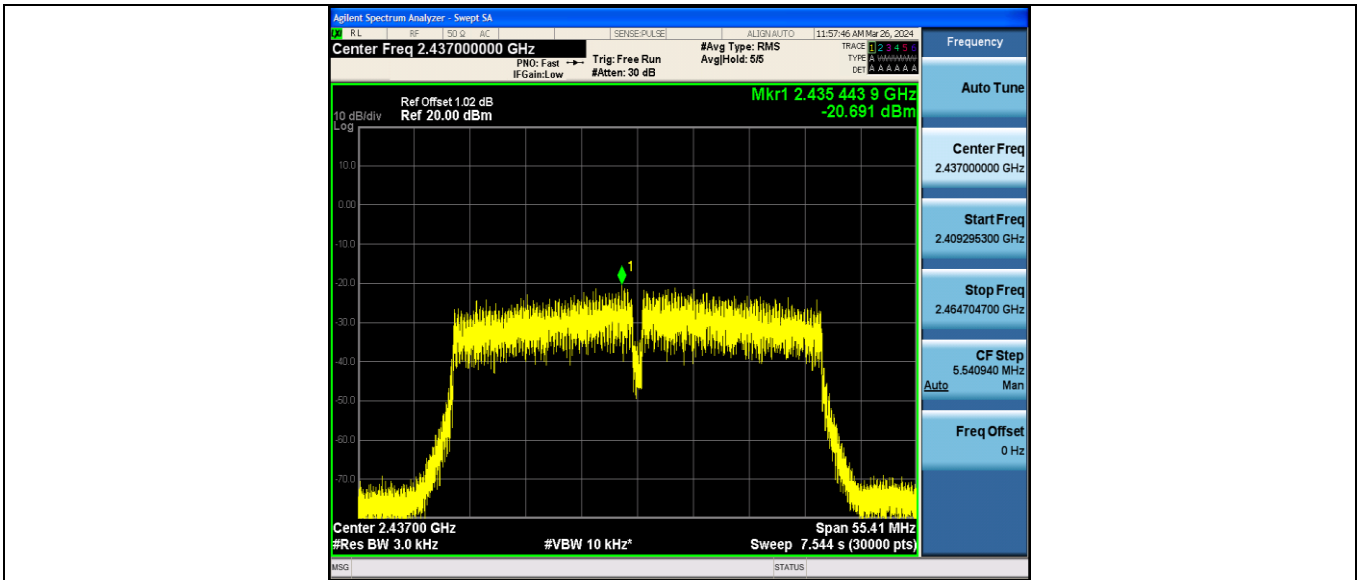












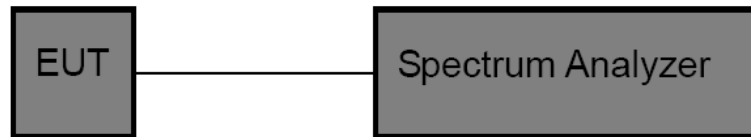


3.8. Duty Cycle

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 10MHz.
Set the VBW to 10MHz.
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.

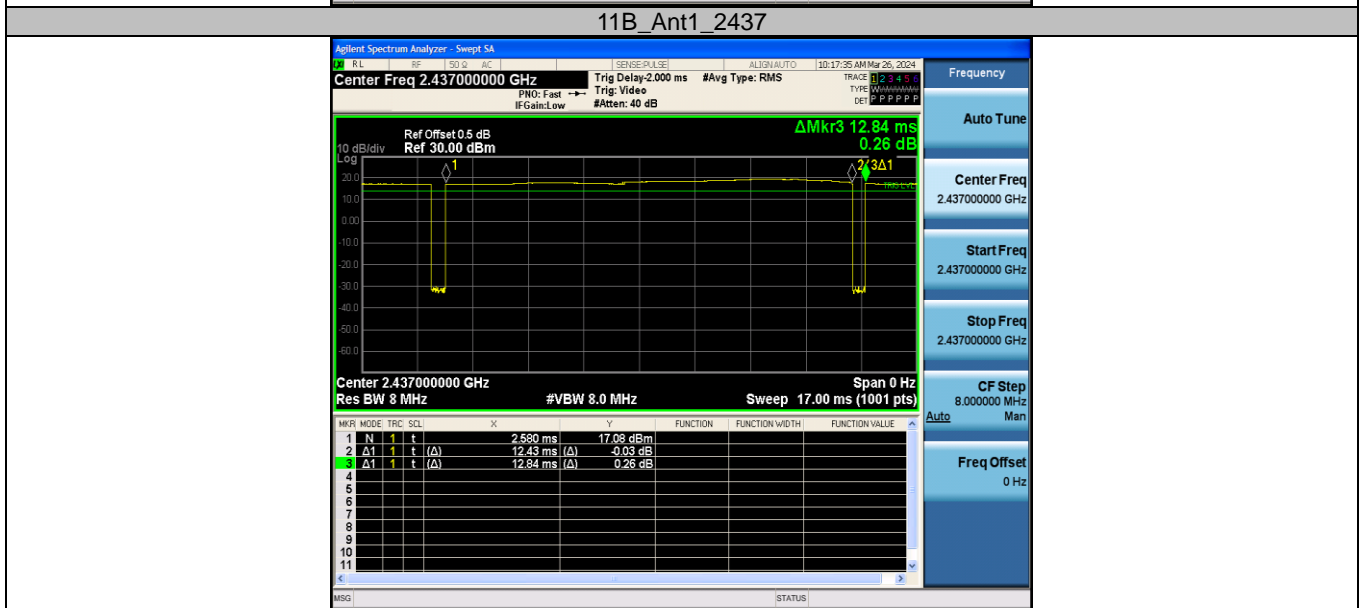
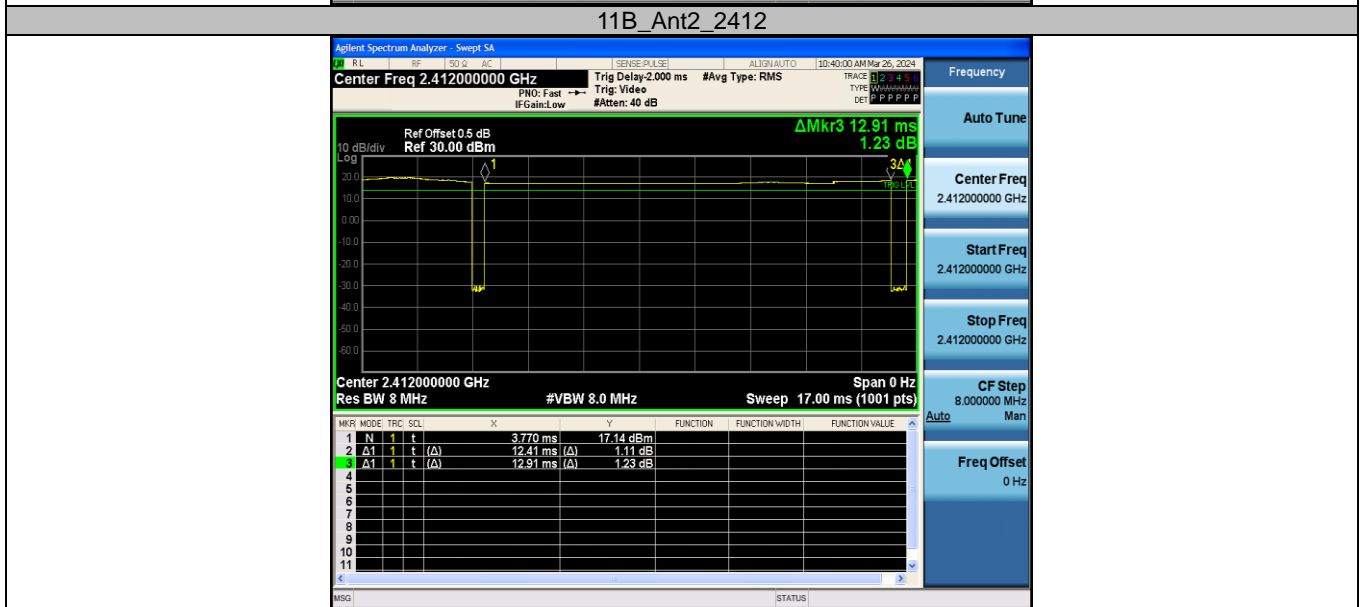
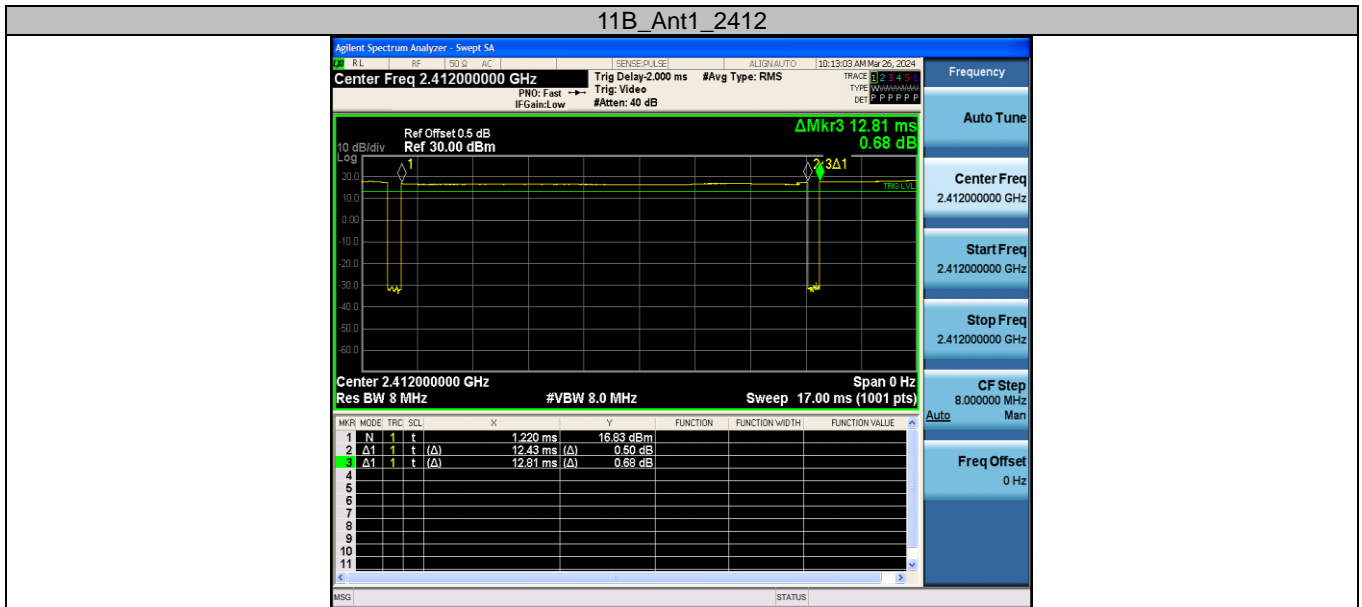
**Test Result**

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	12.43	12.81	97.03	0.08	1
	Ant2	2412	12.41	12.91	96.13	0.08	1
	Ant1	2437	12.43	12.84	96.81	0.08	1
	Ant2	2437	12.42	12.85	96.65	0.08	1
	Ant1	2462	12.42	12.82	96.88	0.08	1
	Ant2	2462	12.43	12.81	97.03	0.08	1
11G	Ant1	2412	2.06	2.27	90.75	0.49	1
	Ant2	2412	2.07	2.22	93.24	0.48	1
	Ant1	2437	2.07	2.29	90.39	0.48	1
	Ant2	2437	2.06	2.29	89.96	0.49	1
	Ant1	2462	2.06	2.20	93.64	0.49	1
	Ant2	2462	2.06	2.22	92.79	0.49	1
11N20MIMO	Ant1	2412	1.92	2.10	91.43	0.52	1
	Ant2	2412	1.92	2.09	91.87	0.52	1
	Ant1	2437	1.92	2.03	94.58	0.52	1
	Ant2	2437	1.92	2.11	91.00	0.52	1
	Ant1	2462	1.92	2.09	91.87	0.52	1
	Ant2	2462	1.92	2.12	90.57	0.52	1
11N40MIMO	Ant1	2422	0.95	1.09	87.16	1.05	3
	Ant2	2422	0.94	1.15	81.74	1.06	3
	Ant1	2437	0.95	1.13	84.07	1.05	3
	Ant2	2437	0.94	1.06	88.68	1.06	3
	Ant1	2452	0.94	1.12	83.93	1.06	3
	Ant2	2452	0.95	1.17	81.20	1.05	3

Note: Duty Cycle>98%, VBW=10Hz

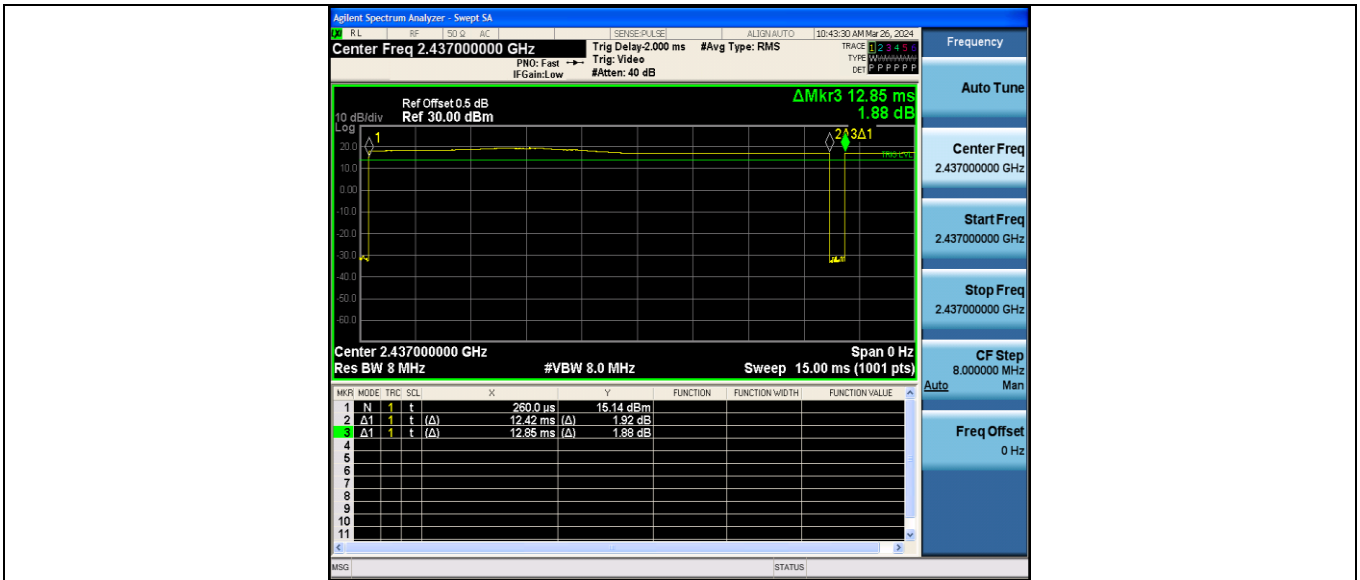


Test Graphs:

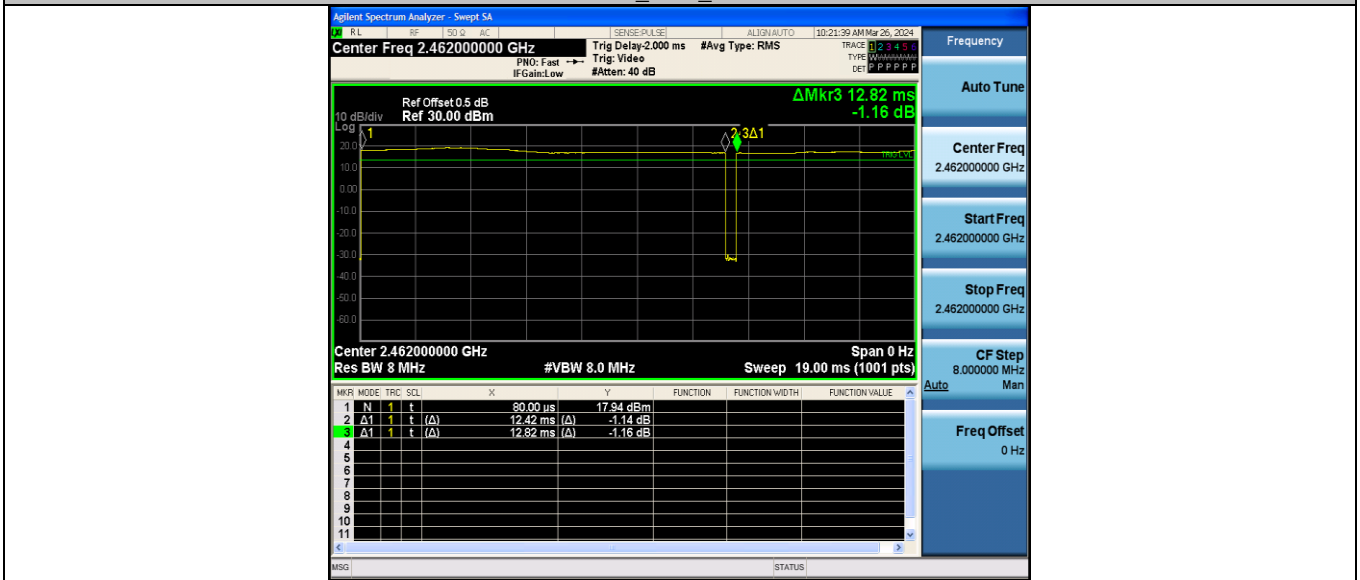


11B_Ant2_2437

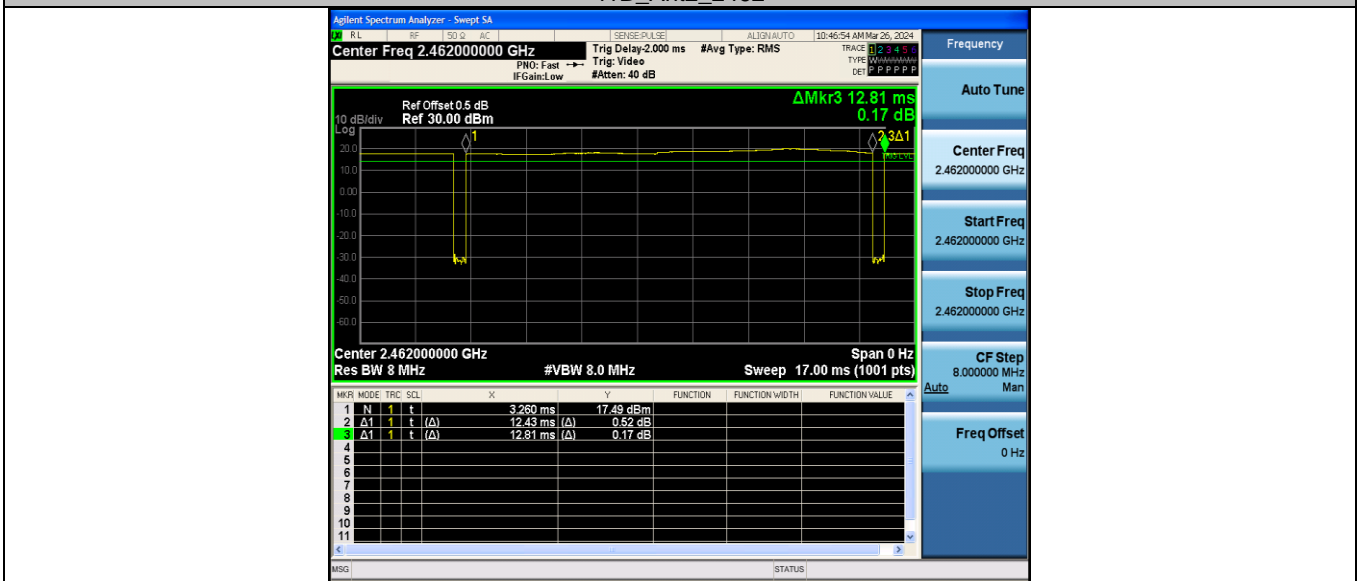




11B_Ant1_2462

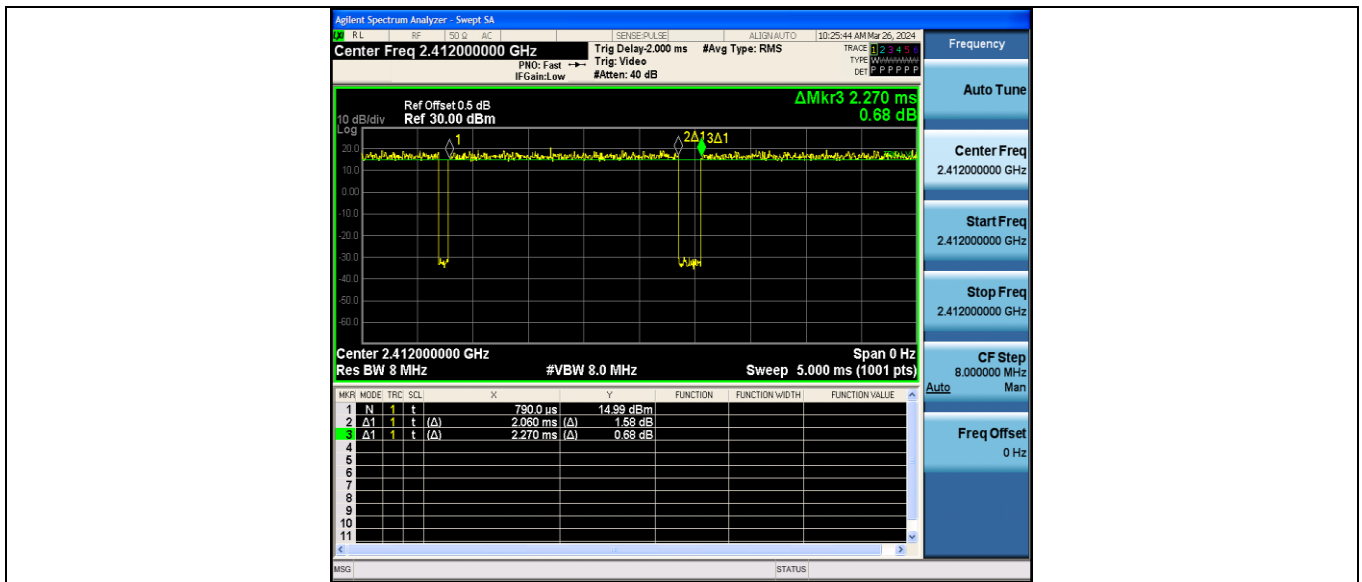


11B_Ant2_2462

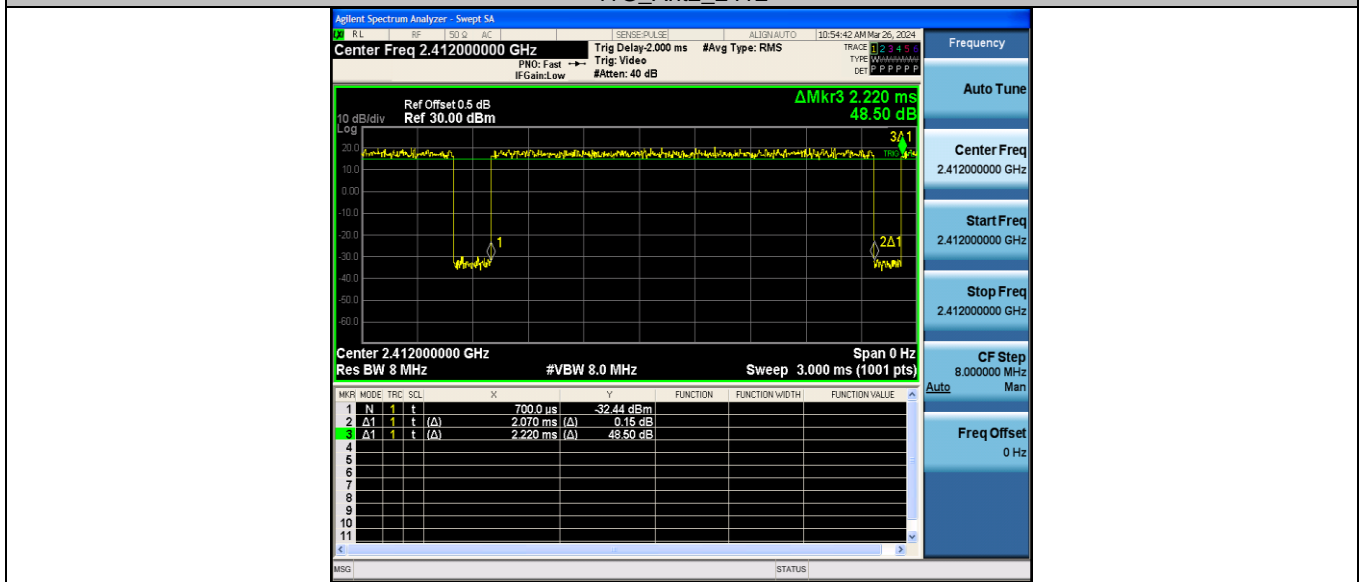


11G_Ant1_2412

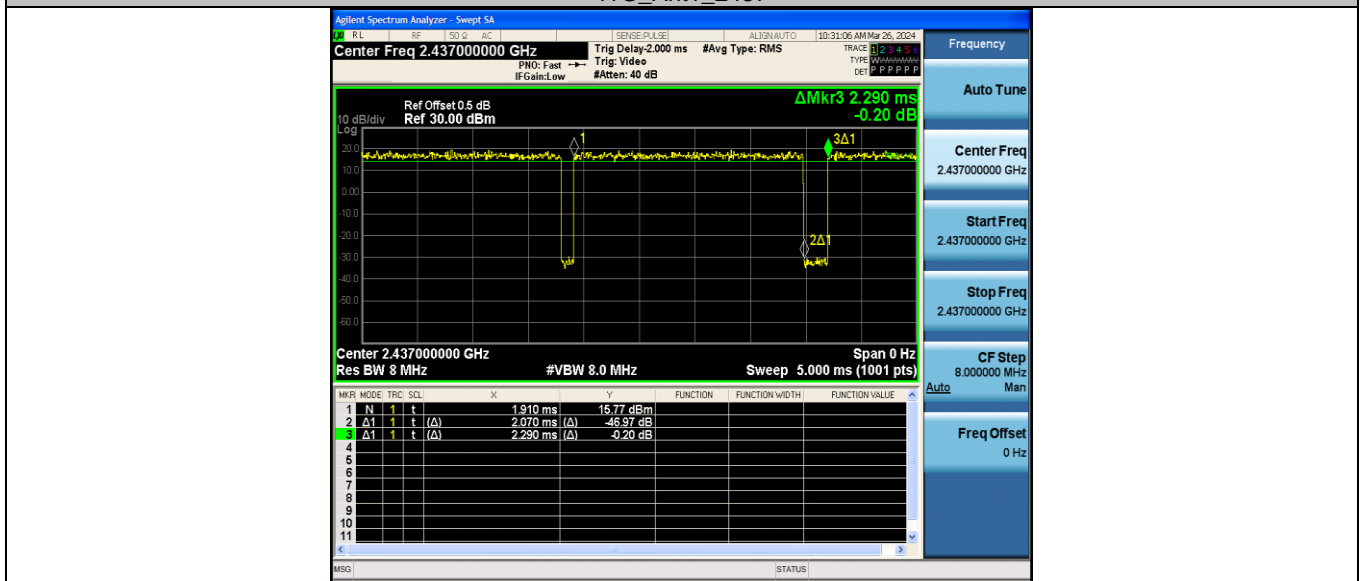




11G_Ant2_2412

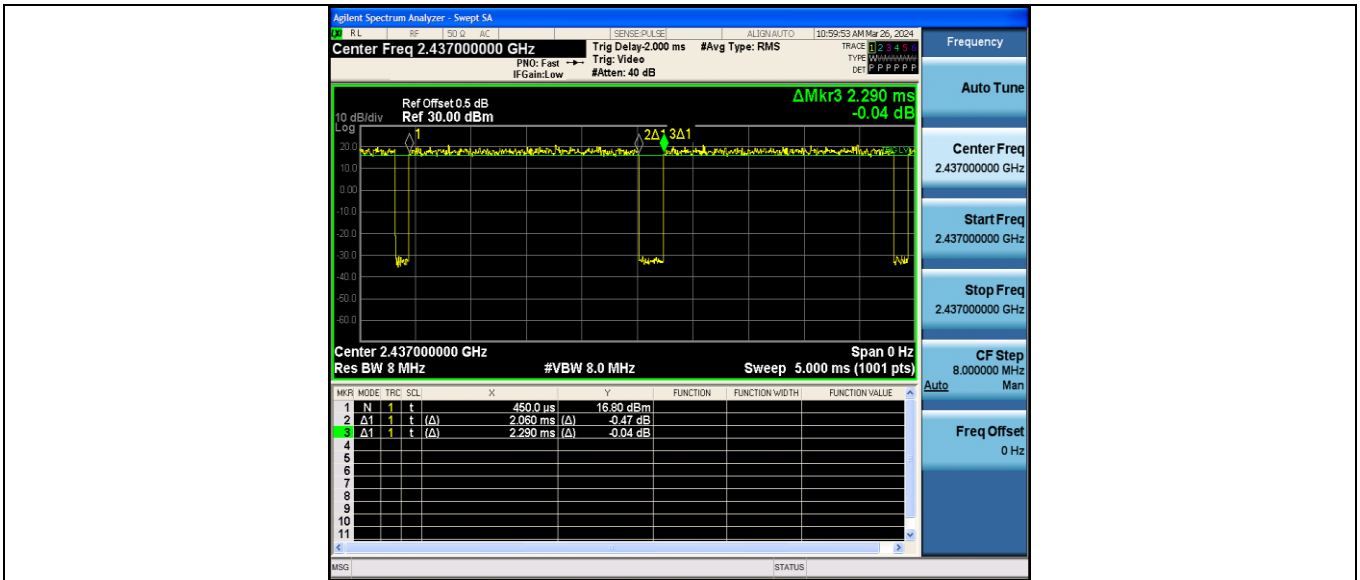


11G_Ant1_2437

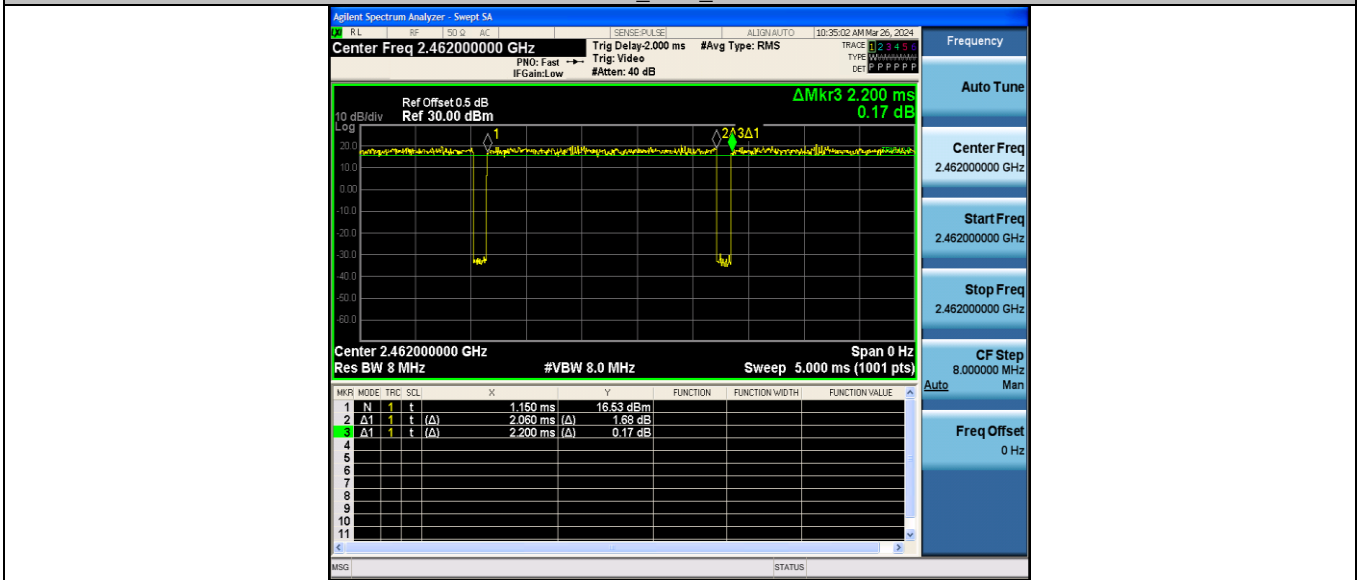


11G_Ant2_2437

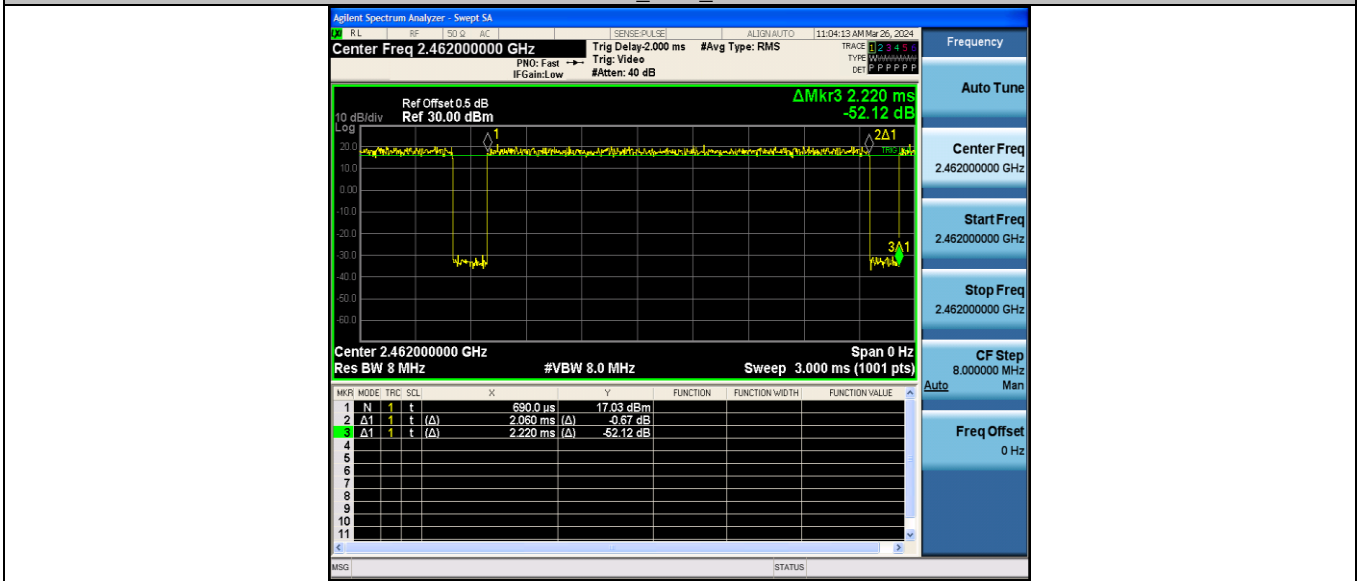




11G_Ant1_2462



11G_Ant2_2462



11N20MIMO_Ant1_2412

