

## Appendix Test Data for WLAN(2.4G) (Conducted Measurement)

Product Name: 4K OTT BOX

Trade Mark: N/A

Test Model: SN6BKHE

FCC ID: 2AOVU-SN6BKHE

### Environmental Conditions

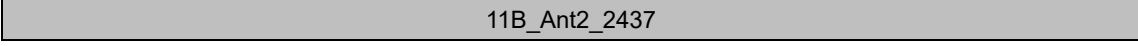
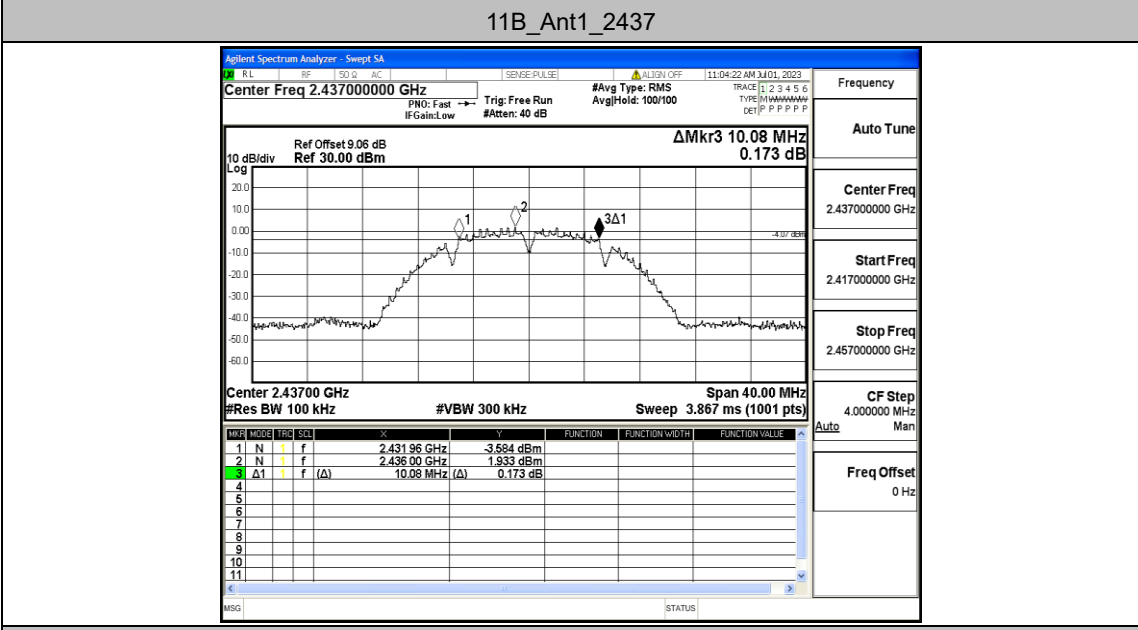
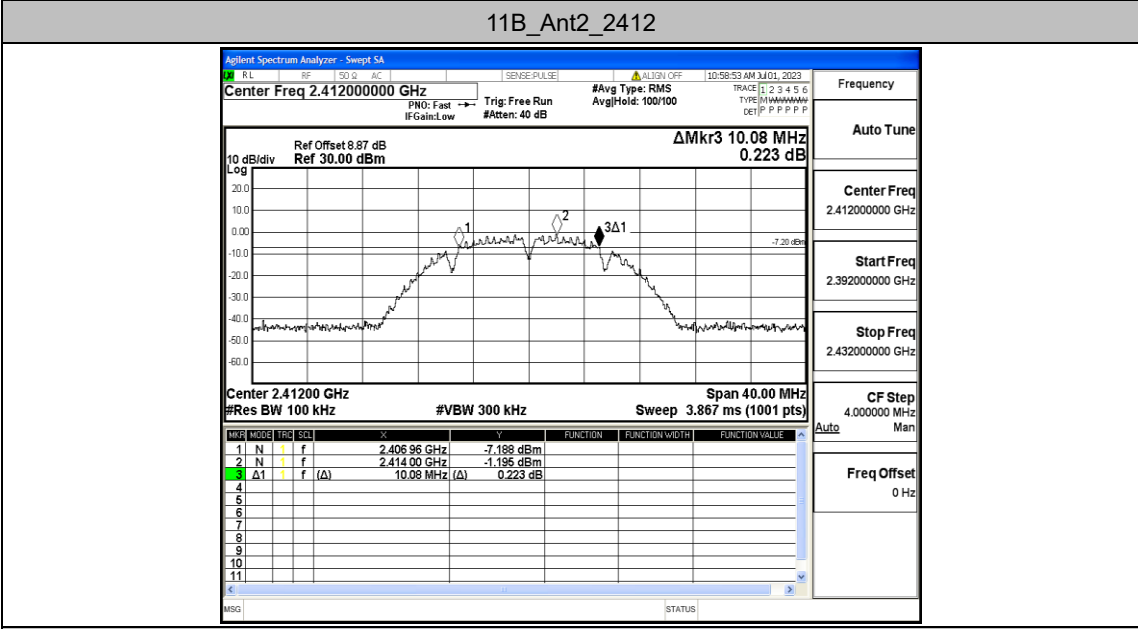
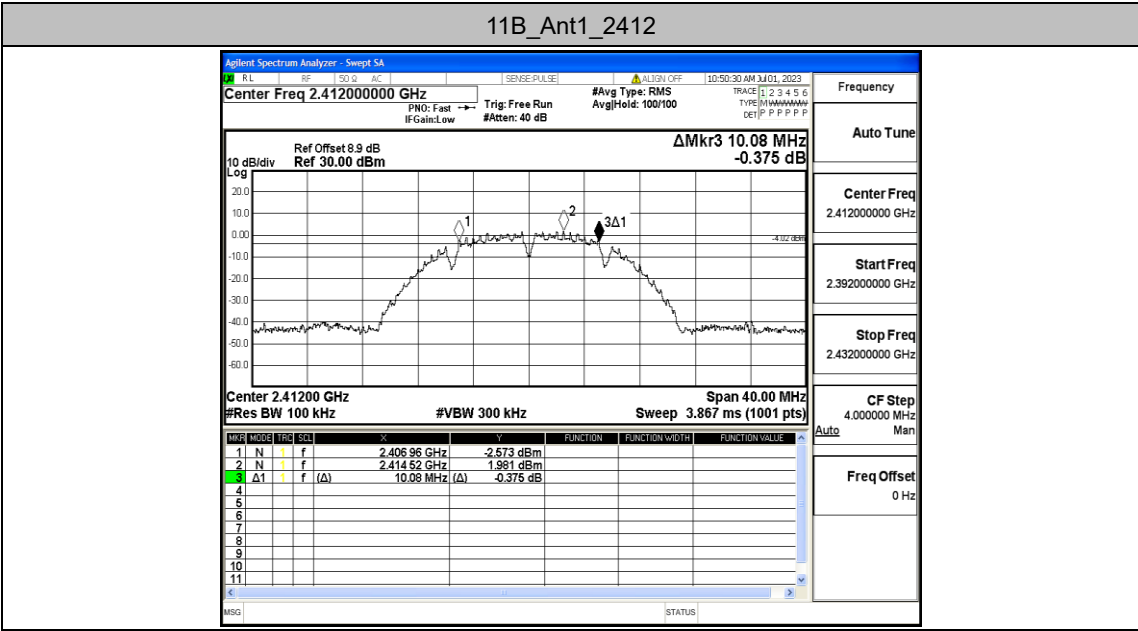
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

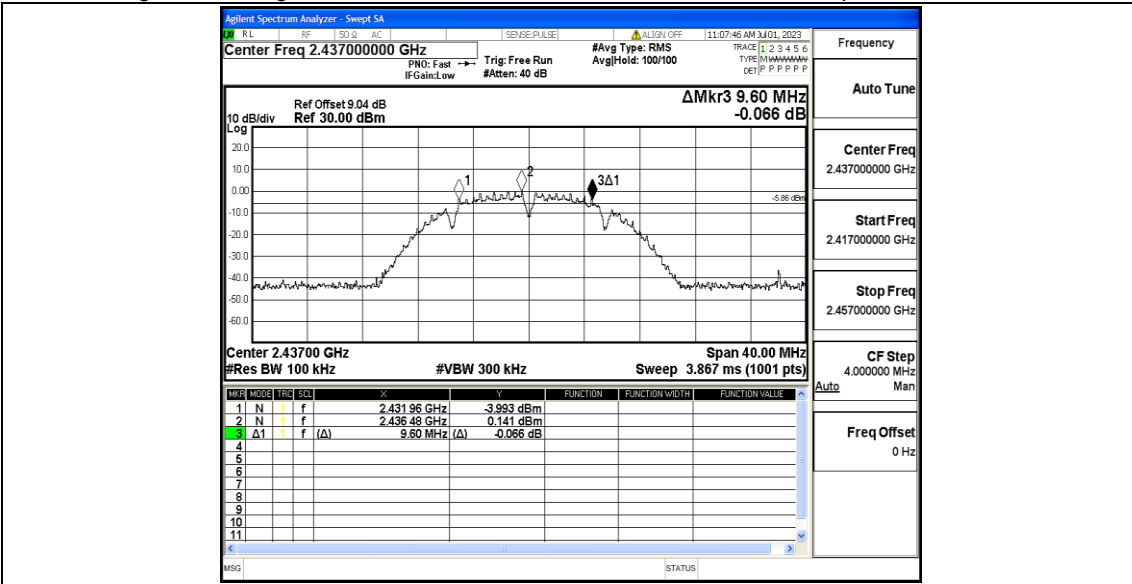
## Appendix A: DTS Bandwidth

### Test Result

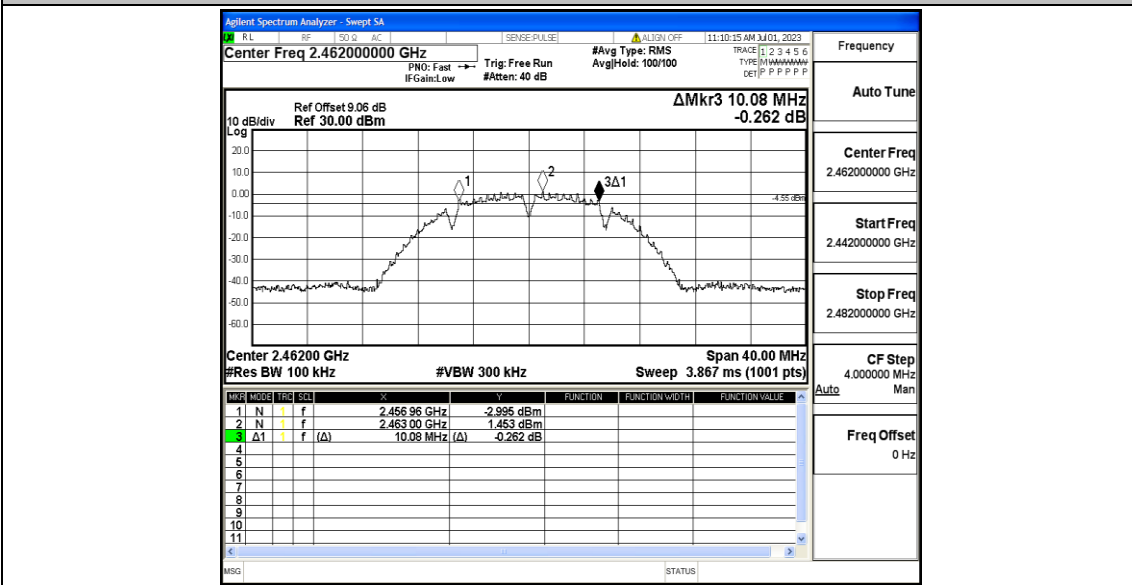
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
	Ant2	2412	10.080	2406.960	2417.040	0.5	PASS
	Ant1	2437	10.080	2431.960	2442.040	0.5	PASS
	Ant2	2437	9.600	2431.960	2441.560	0.5	PASS
	Ant1	2462	10.080	2456.960	2467.040	0.5	PASS
	Ant2	2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
	Ant2	2412	16.320	2403.840	2420.160	0.5	PASS
	Ant1	2437	15.240	2429.280	2444.520	0.5	PASS
	Ant2	2437	16.080	2428.840	2444.920	0.5	PASS
	Ant1	2462	16.280	2453.880	2470.160	0.5	PASS
	Ant2	2462	16.080	2454.080	2470.160	0.5	PASS
11N20MIMO	Ant1	2412	14.560	2405.680	2420.240	0.5	PASS
	Ant2	2412	15.920	2404.200	2420.120	0.5	PASS
	Ant1	2437	16.920	2428.240	2445.160	0.5	PASS
	Ant2	2437	16.280	2428.240	2444.520	0.5	PASS
	Ant1	2462	17.480	2453.280	2470.760	0.5	PASS
	Ant2	2462	17.400	2453.320	2470.720	0.5	PASS
11N40MIMO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
	Ant2	2422	35.120	2404.480	2439.600	0.5	PASS
	Ant1	2437	35.120	2419.480	2454.600	0.5	PASS
	Ant2	2437	35.040	2419.480	2454.520	0.5	PASS
	Ant1	2452	36.000	2433.840	2469.840	0.5	PASS
	Ant2	2452	36.000	2433.840	2469.840	0.5	PASS

Test Graphs

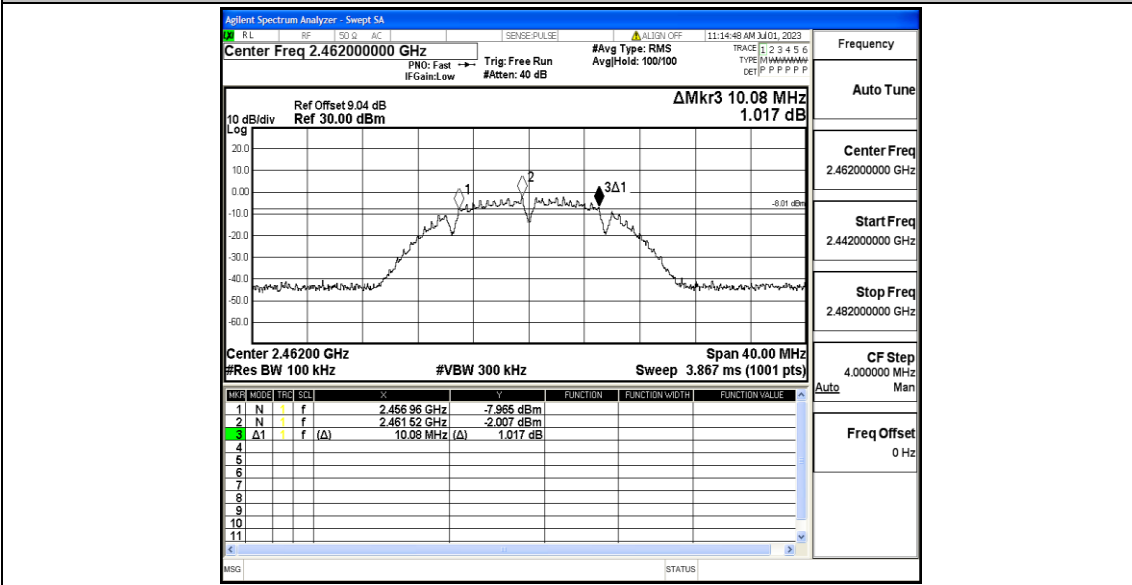




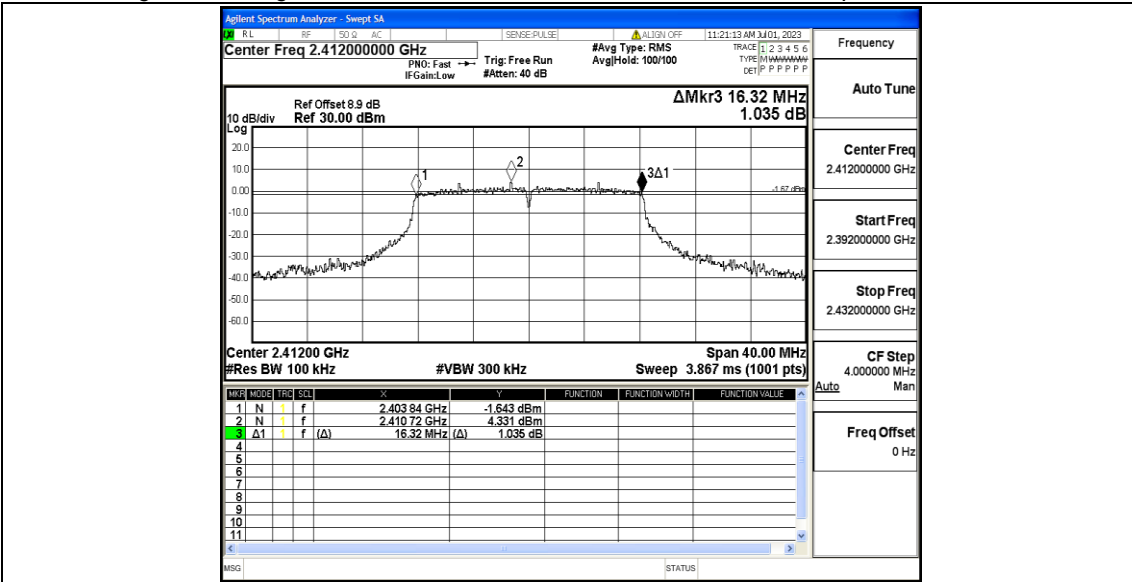
11B\_Ant1\_2462



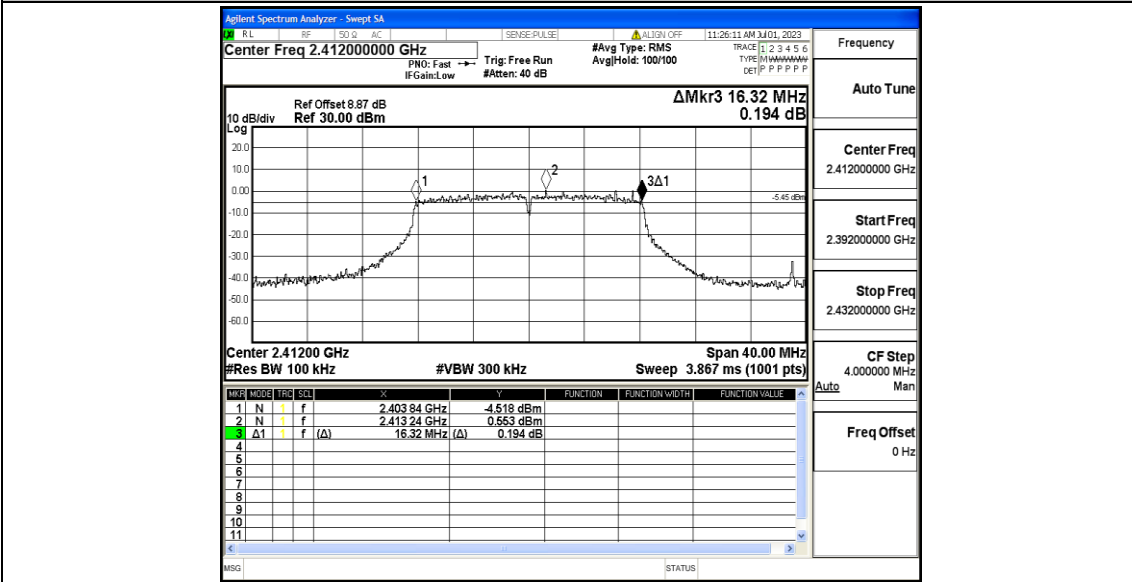
11B\_Ant2\_2462



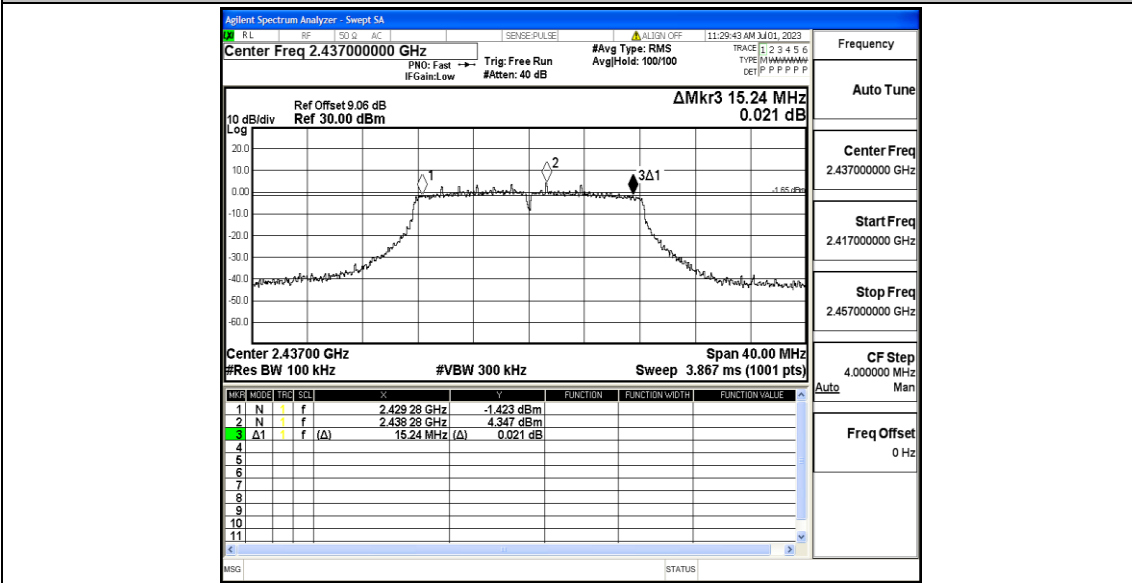
11G\_Ant1\_2412



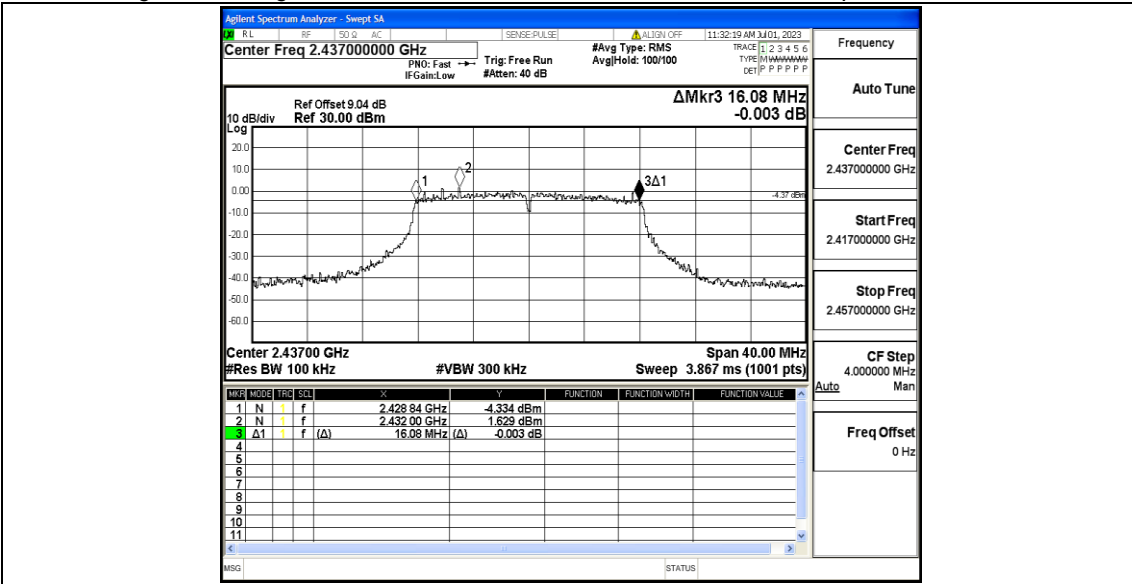
11G\_Ant2\_2412



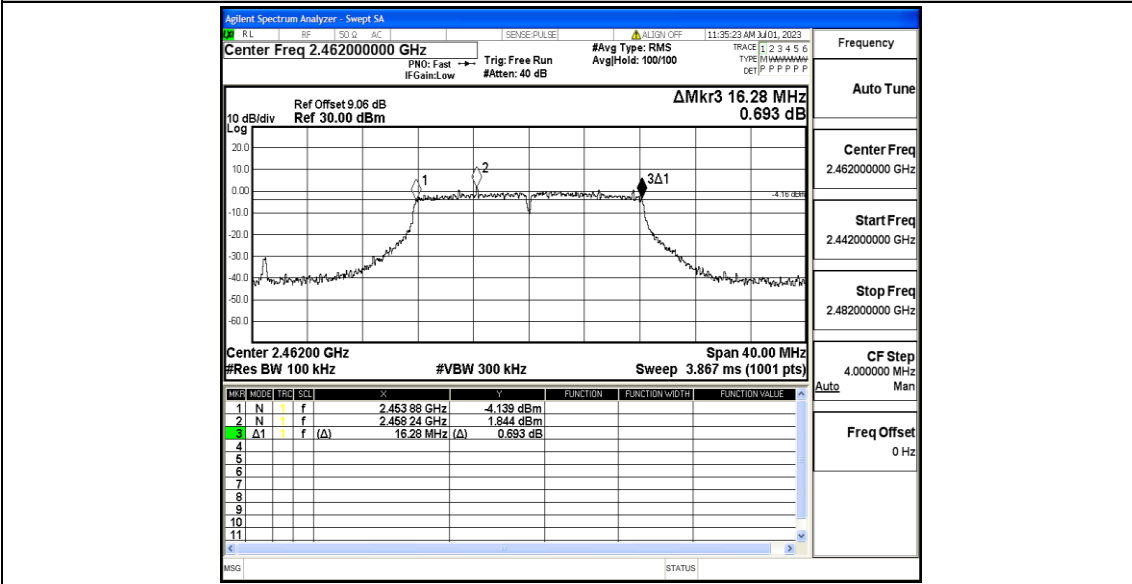
11G\_Ant1\_2437



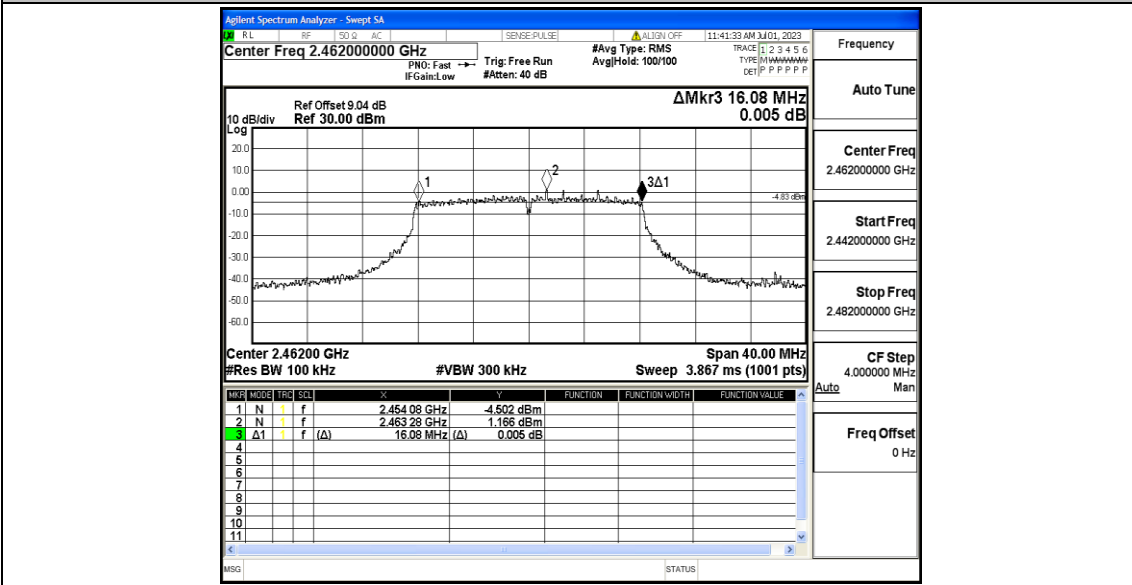
11G\_Ant2\_2437



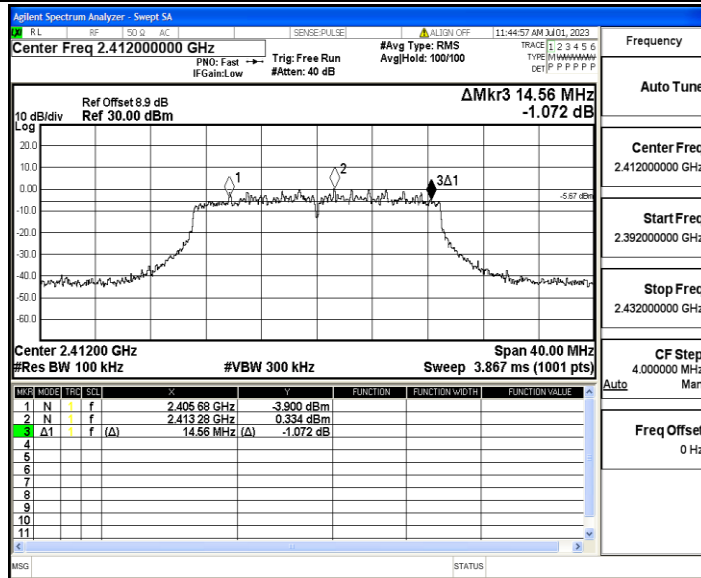
11G\_Ant1\_2462



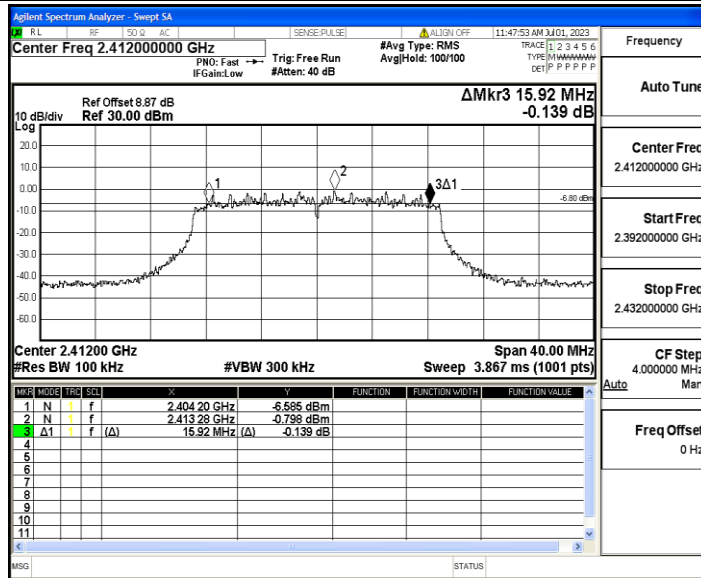
11G\_Ant2\_2462



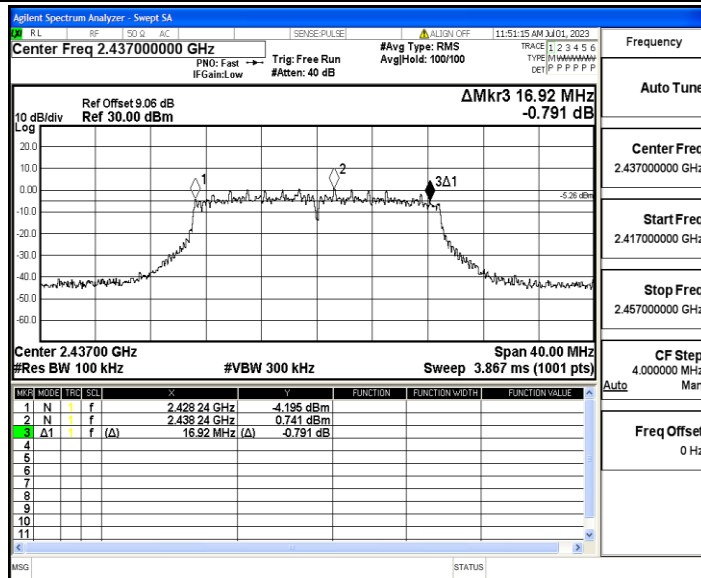
11N20MIMO\_Ant1\_2412



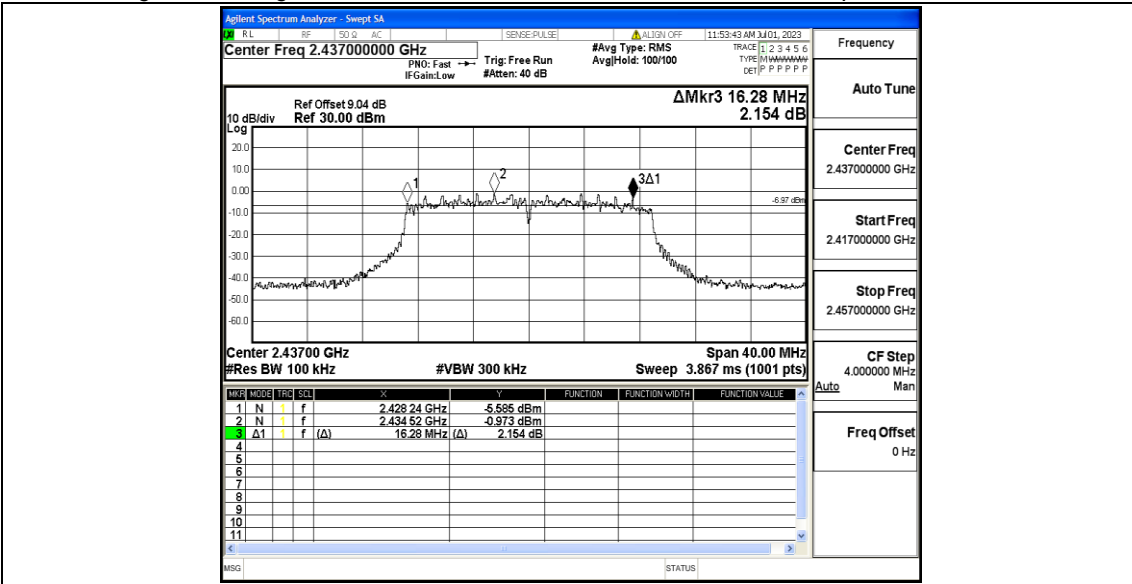
11N20MIMO\_Ant2\_2412



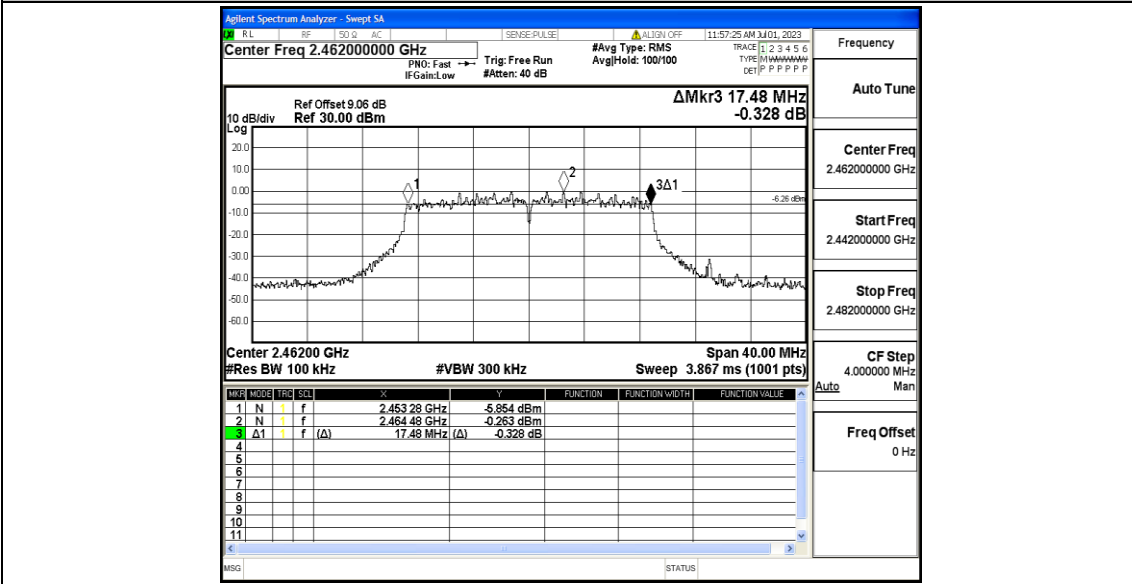
11N20MIMO\_Ant1\_2437



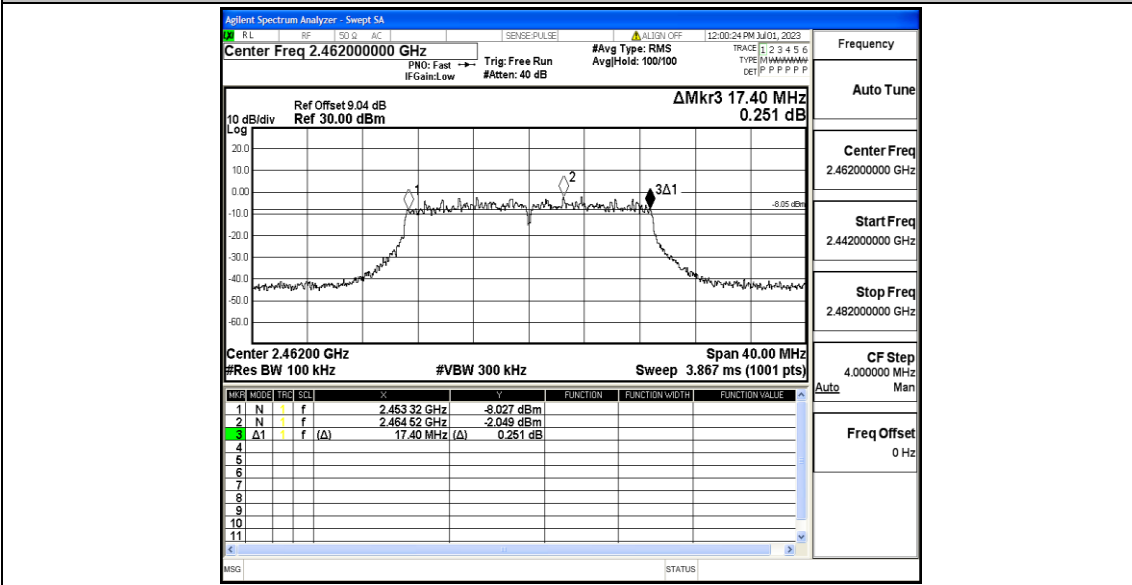
11N20MIMO\_Ant2\_2437



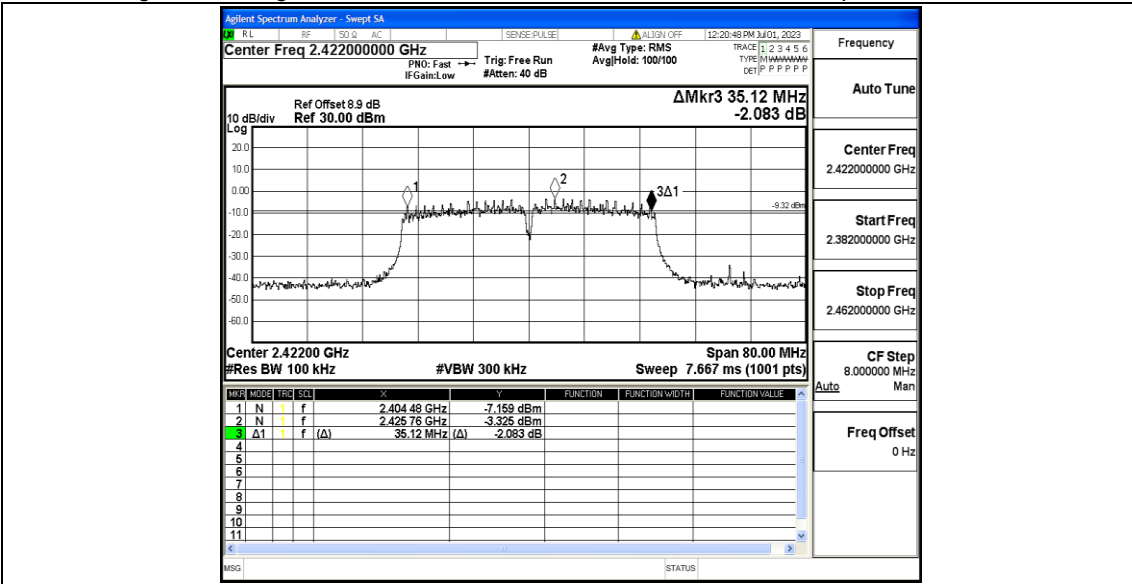
11N20MIMO\_Ant1\_2462



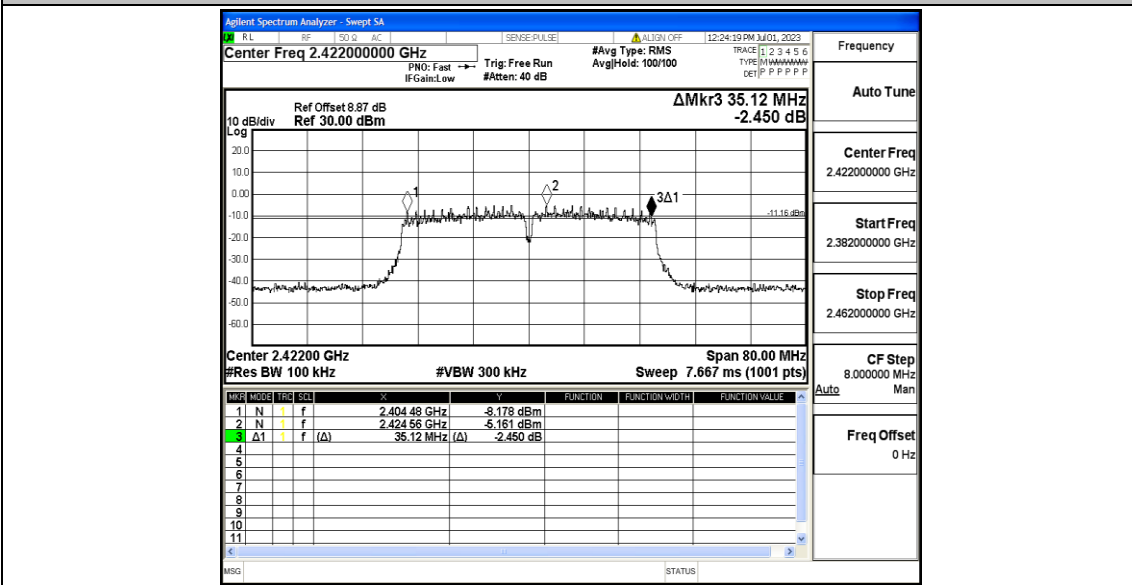
11N20MIMO\_Ant2\_2462



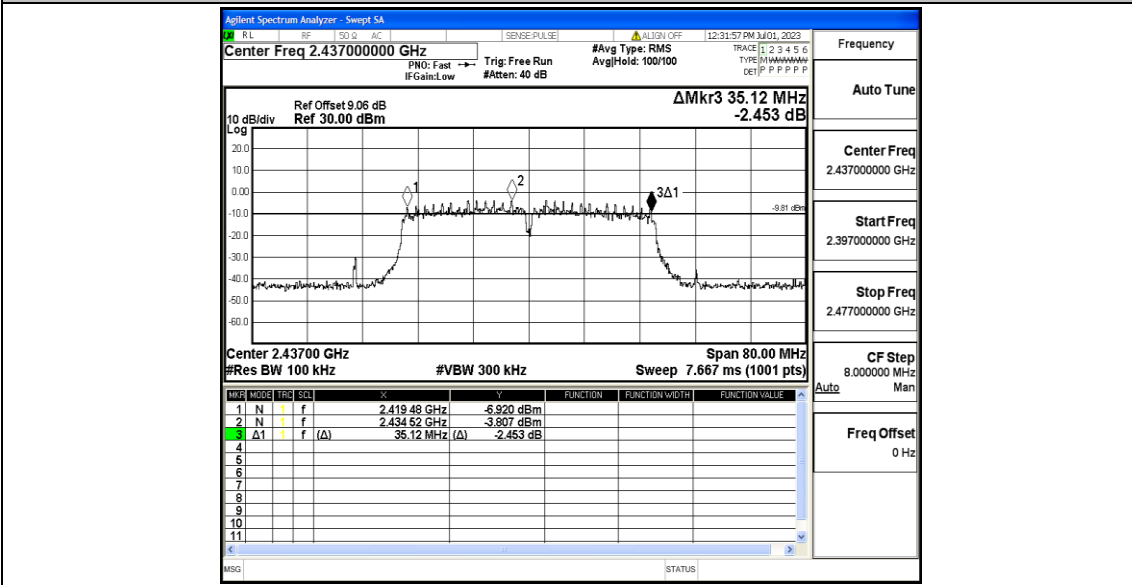
11N40MIMO\_Ant1\_2422



11N40MIMO\_Ant2\_2422

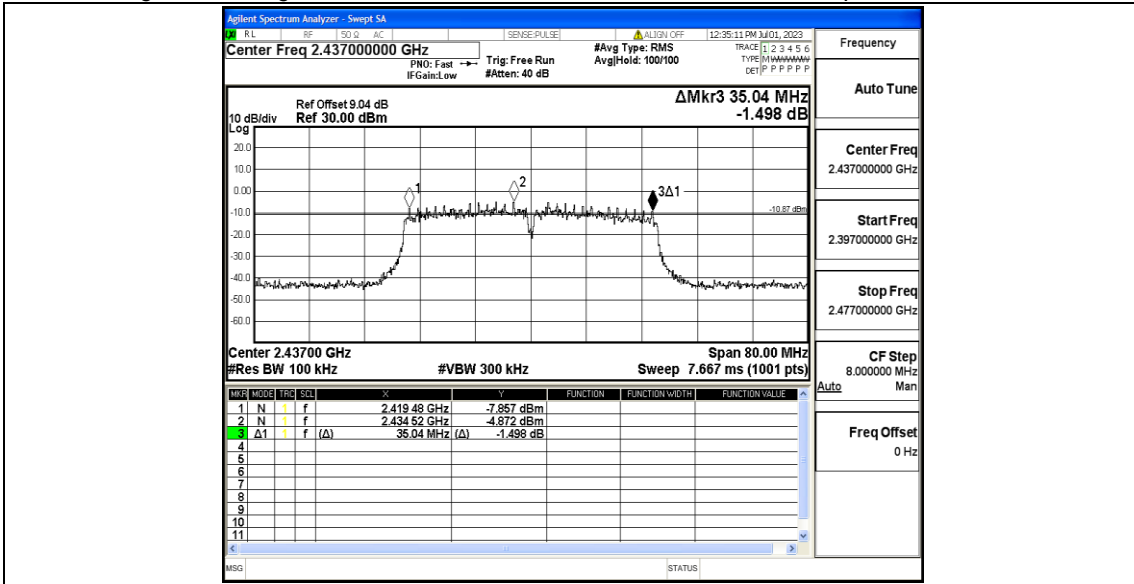


11N40MIMO\_Ant1\_2437

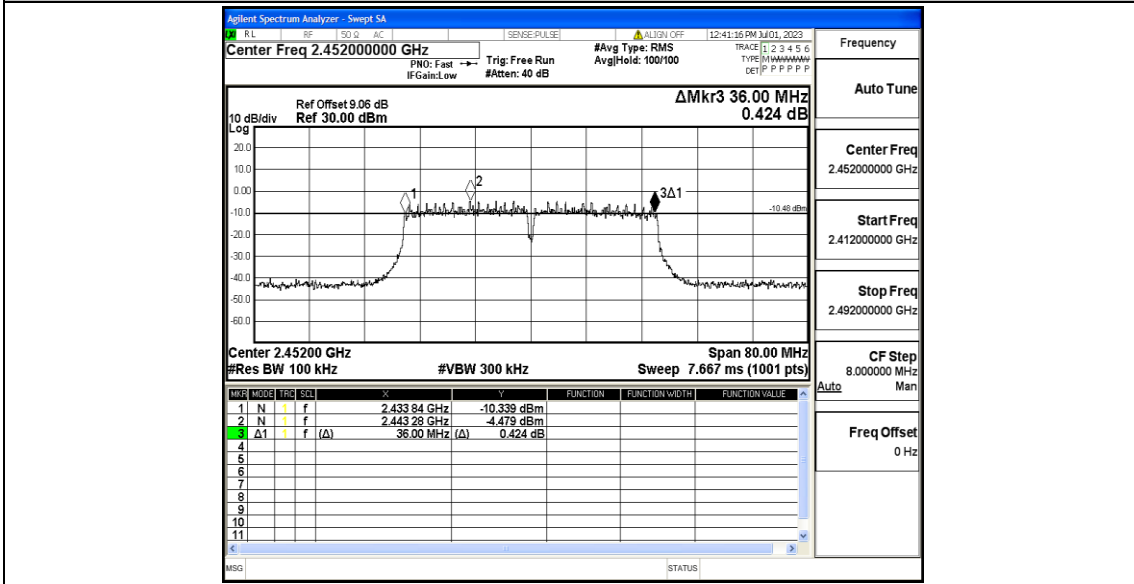


11N40MIMO\_Ant2\_2437

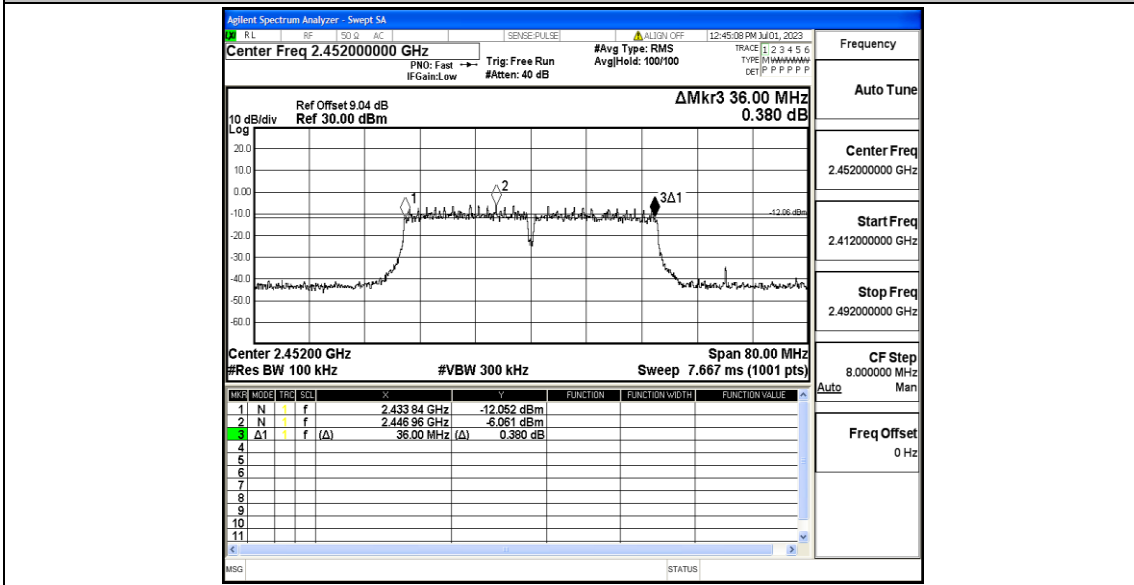




11N40MIMO\_Ant1\_2452



11N40MIMO\_Ant2\_2452

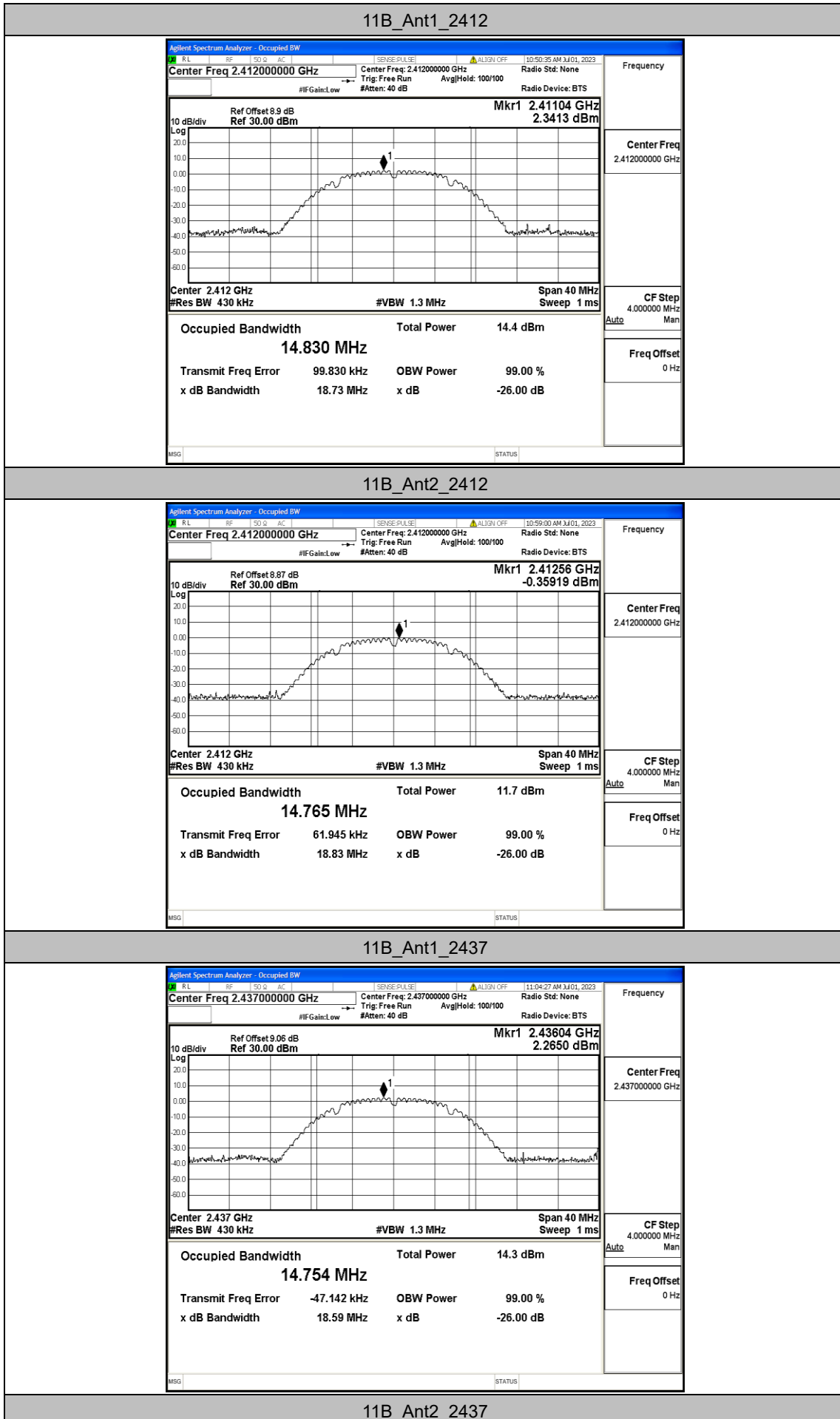


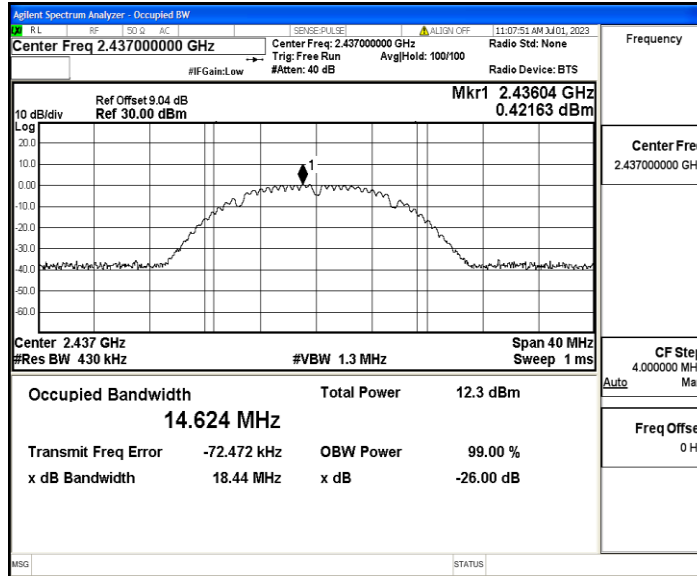
## Appendix B: Occupied Channel Bandwidth

### Test Result

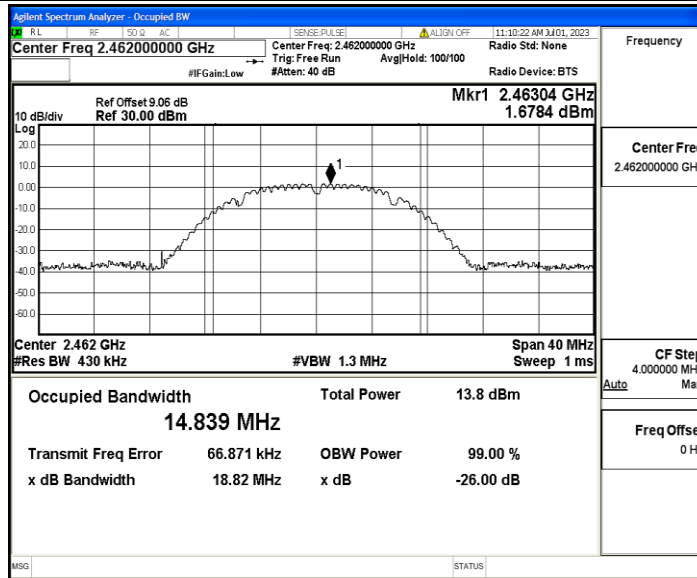
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.830	2404.6848	2419.5148	---	---
	Ant2	2412	14.765	2404.6795	2419.4445	---	---
	Ant1	2437	14.754	2429.5759	2444.3299	---	---
	Ant2	2437	14.624	2429.6155	2444.2395	---	---
	Ant1	2462	14.839	2454.6474	2469.4864	---	---
	Ant2	2462	14.841	2454.6803	2469.5213	---	---
11G	Ant1	2412	16.852	2403.6740	2420.5260	---	---
	Ant2	2412	16.598	2403.7416	2420.3396	---	---
	Ant1	2437	16.717	2428.6678	2445.3848	---	---
	Ant2	2437	16.574	2428.7032	2445.2772	---	---
	Ant1	2462	16.846	2453.6607	2470.5067	---	---
	Ant2	2462	16.657	2453.7468	2470.4038	---	---
11N20MIMO	Ant1	2412	17.744	2403.2242	2420.9682	---	---
	Ant2	2412	17.748	2403.2005	2420.9485	---	---
	Ant1	2437	17.754	2428.1317	2445.8857	---	---
	Ant2	2437	17.774	2428.1453	2445.9193	---	---
	Ant1	2462	17.829	2453.1514	2470.9804	---	---
	Ant2	2462	17.904	2453.1002	2471.0042	---	---
11N40MIMO	Ant1	2422	36.166	2404.1006	2440.2666	---	---
	Ant2	2422	36.241	2403.9647	2440.2057	---	---
	Ant1	2437	36.101	2418.9952	2455.0962	---	---
	Ant2	2437	36.151	2418.8877	2455.0387	---	---
	Ant1	2452	36.275	2433.9177	2470.1927	---	---
	Ant2	2452	36.414	2433.7647	2470.1787	---	---

### Test Graphs

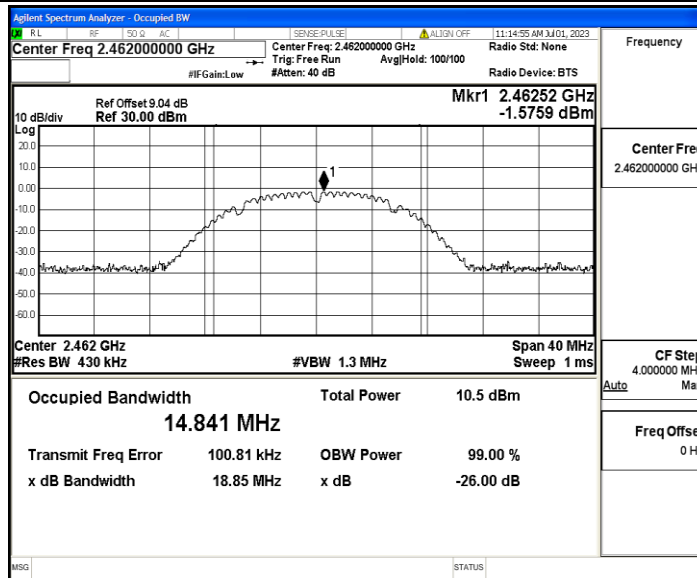




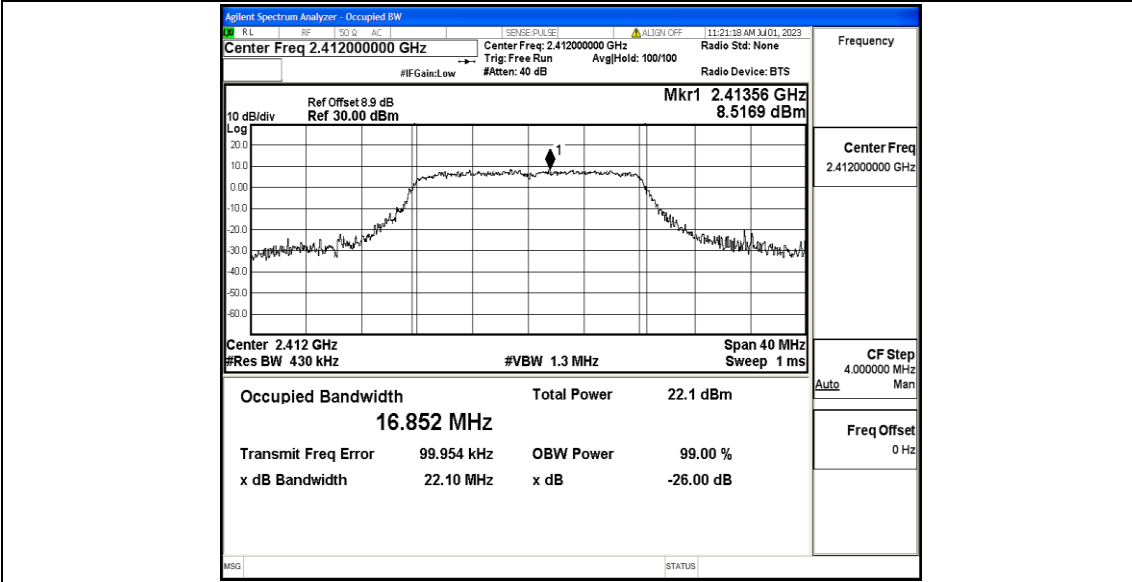
11B\_Ant1\_2462



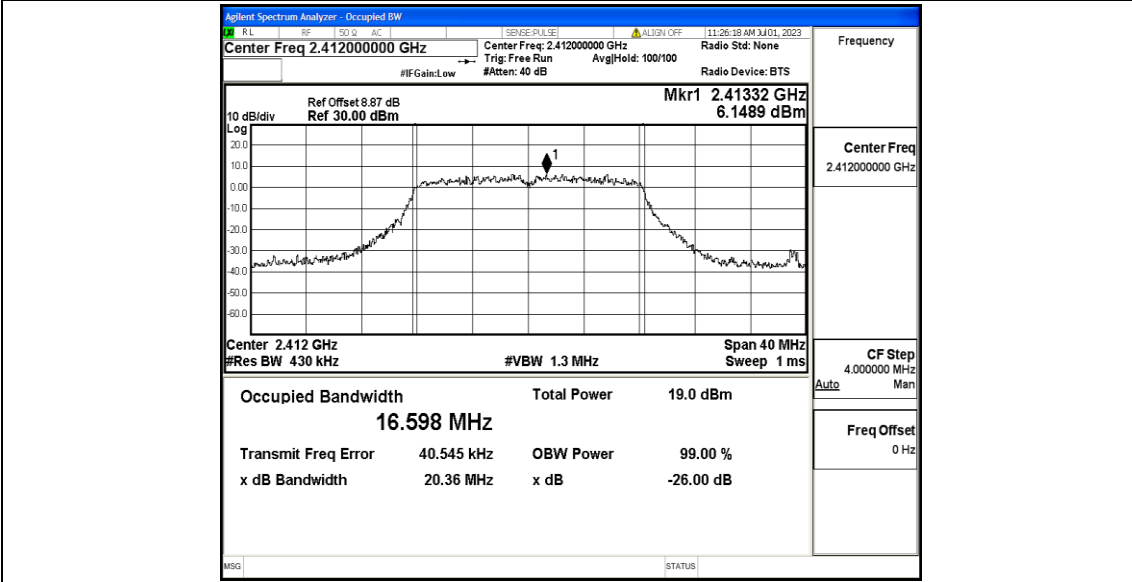
11B\_Ant2\_2462



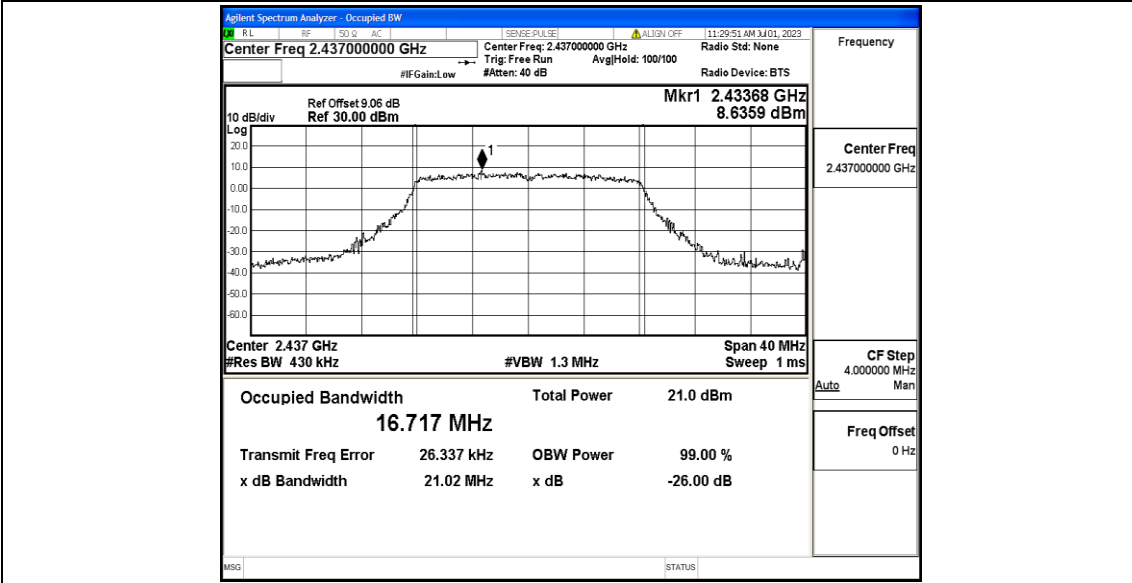
11G\_Ant1\_2412



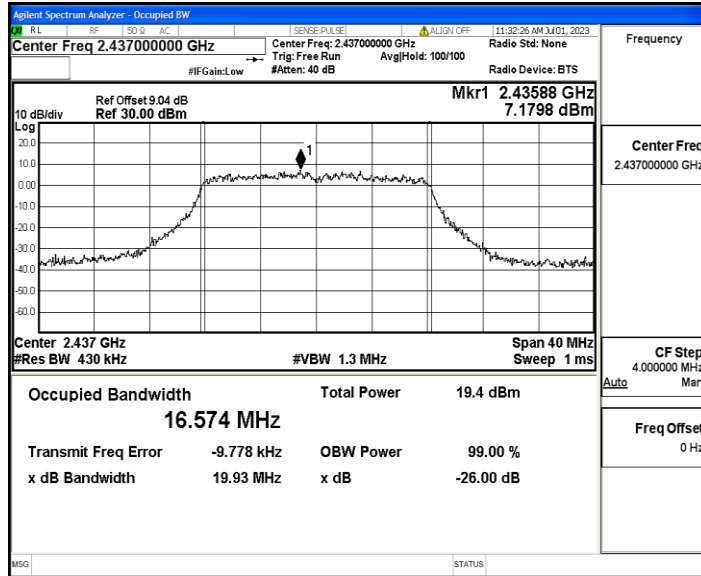
11G\_Ant2\_2412



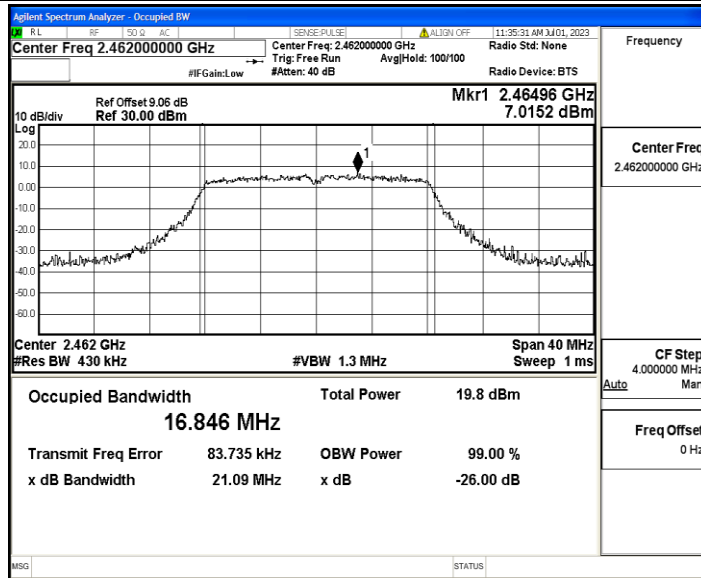
11G\_Ant1\_2437



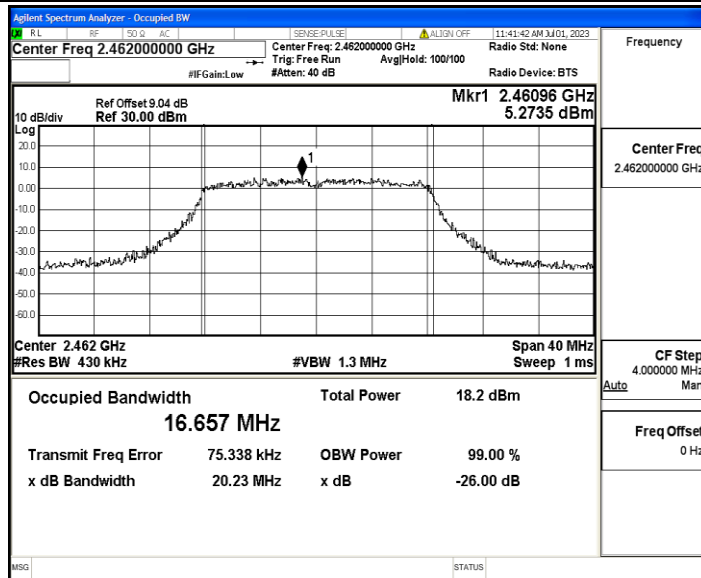
11G\_Ant2\_2437



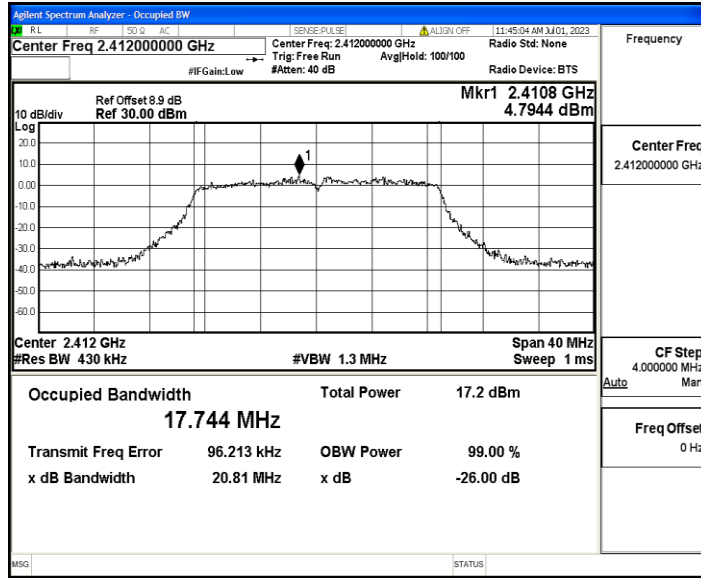
11G\_Ant1\_2462



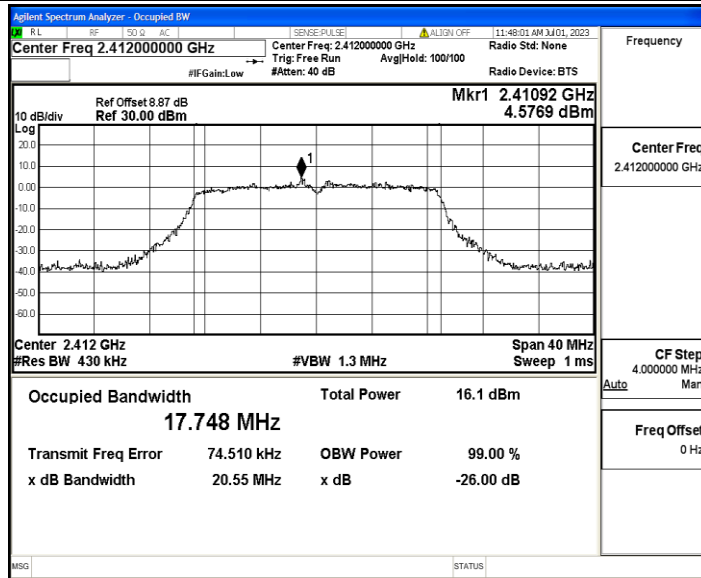
11G\_Ant2\_2462



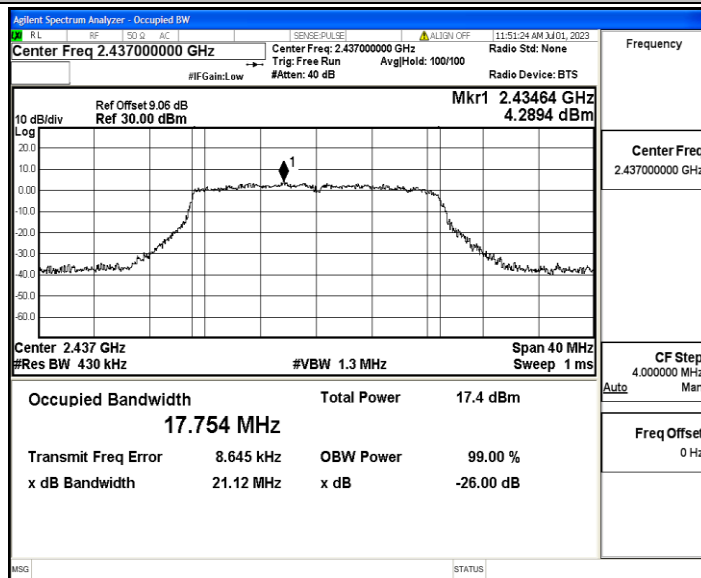
11N20MIMO\_Ant1\_2412



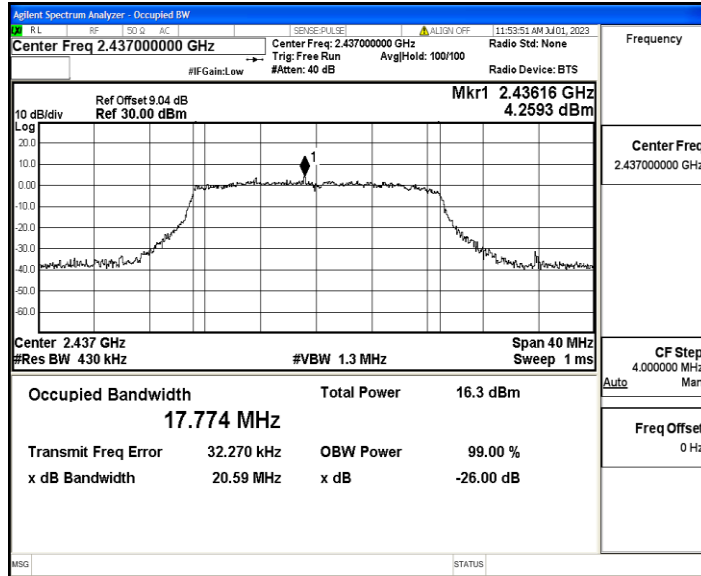
11N20MIMO\_Ant2\_2412



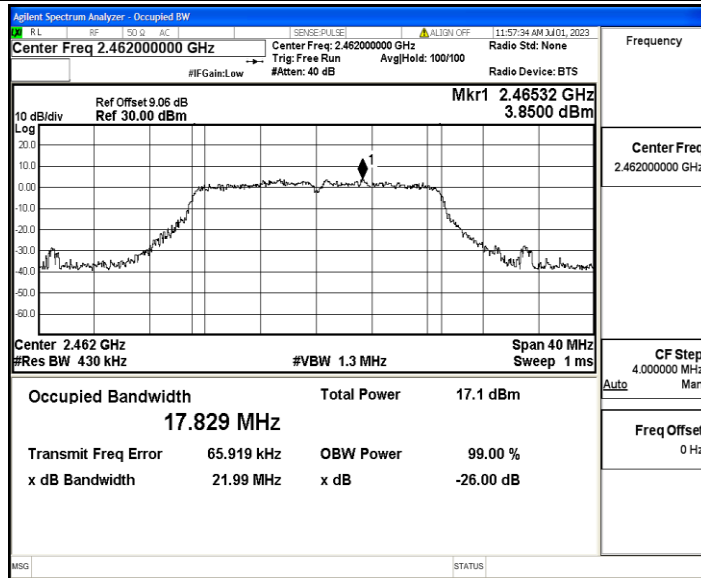
11N20MIMO\_Ant1\_2437



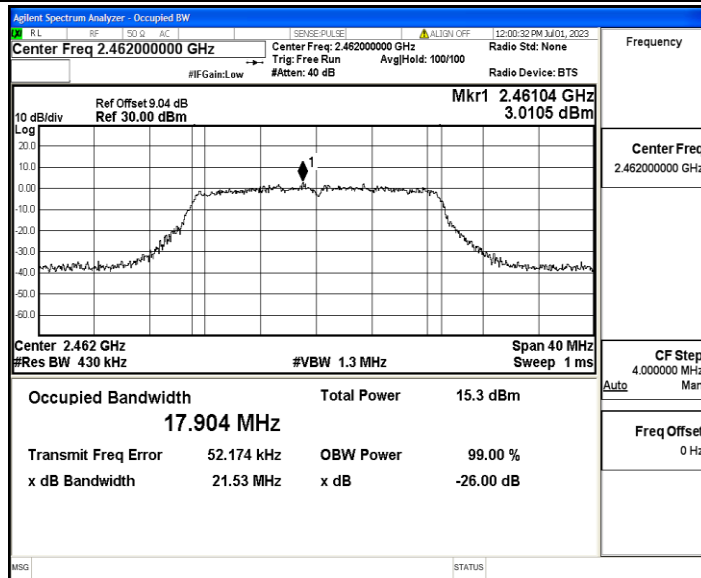
11N20MIMO\_Ant2\_2437



11N20MIMO\_Ant1\_2462

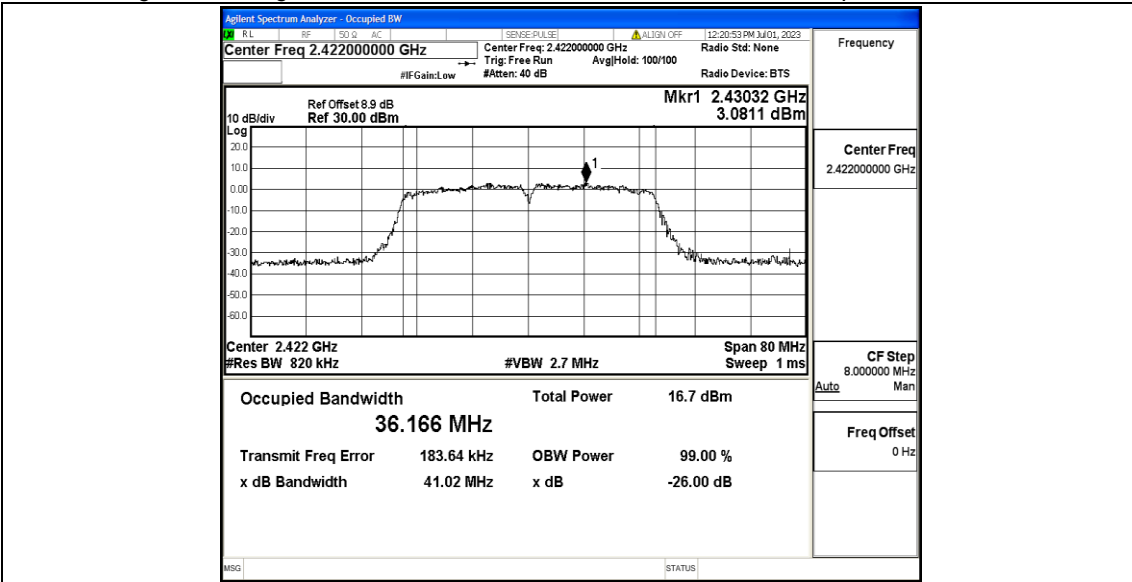


11N20MIMO\_Ant2\_2462

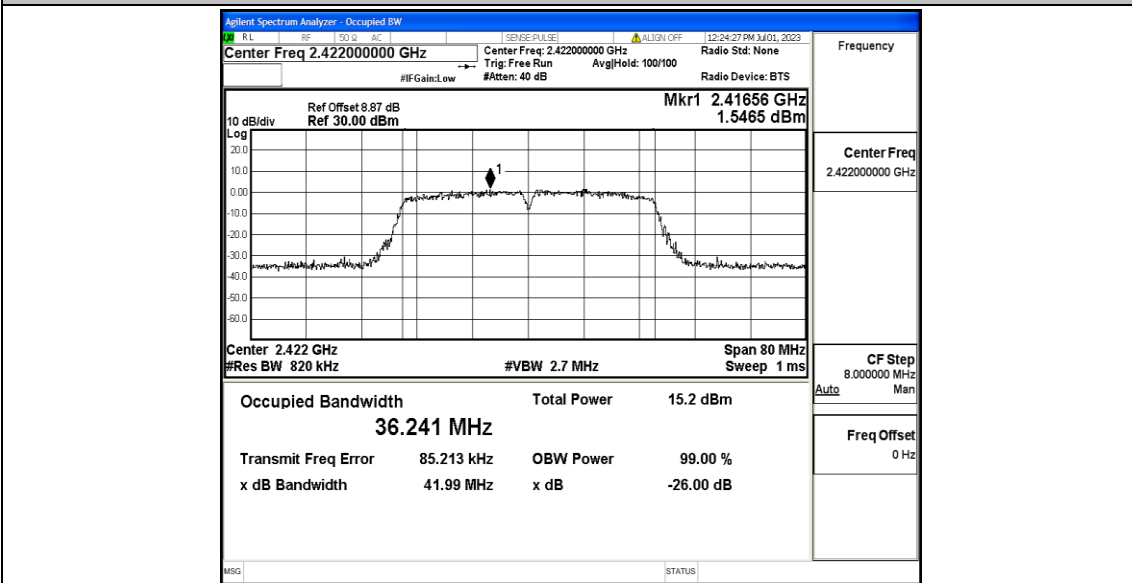


11N40MIMO\_Ant1\_2422

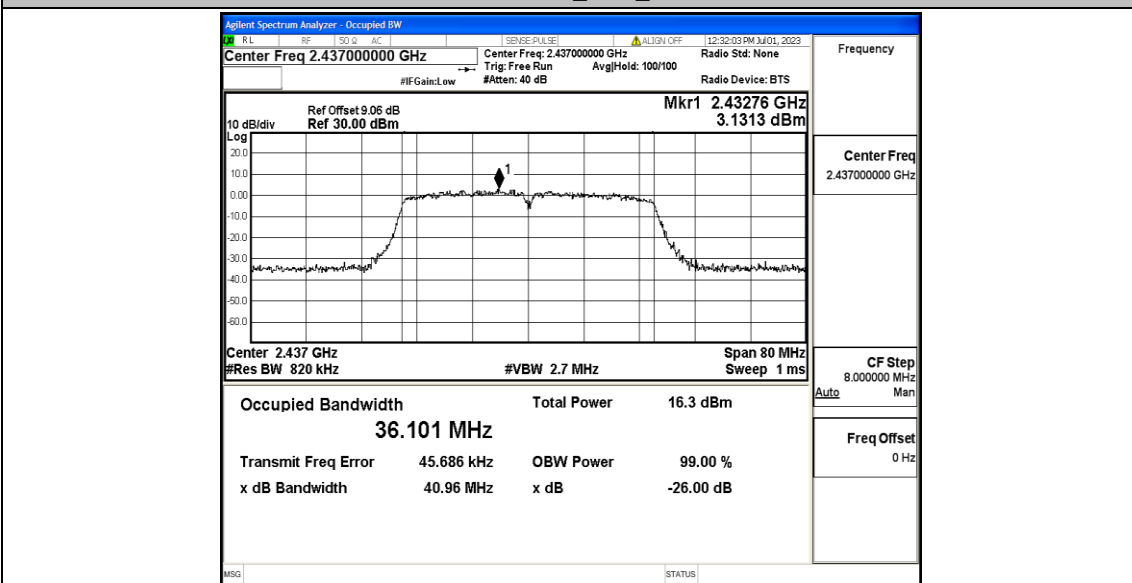




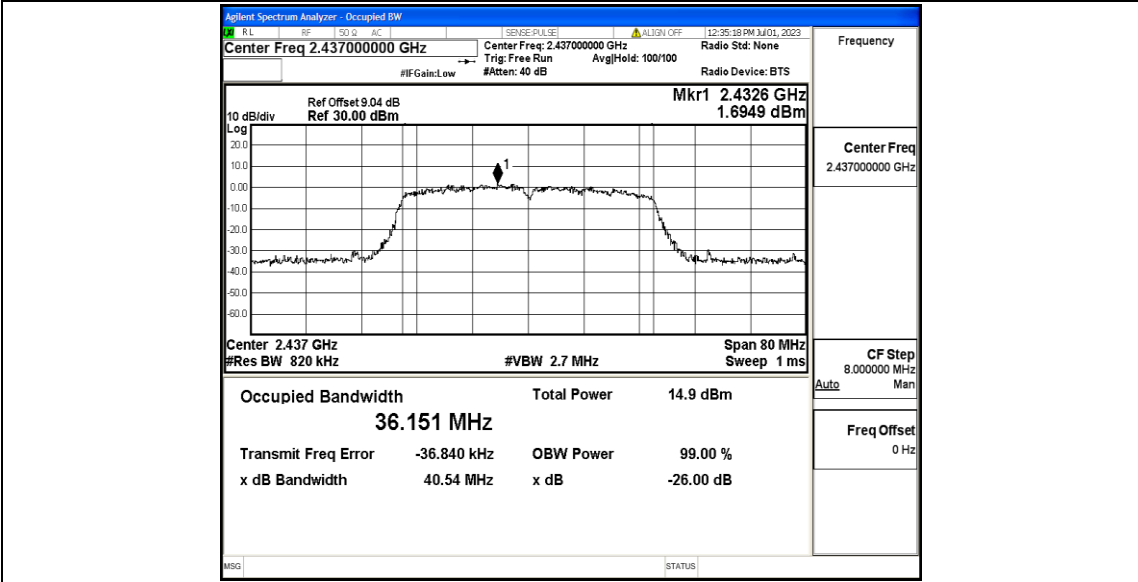
11N40MIMO\_Ant2\_2422



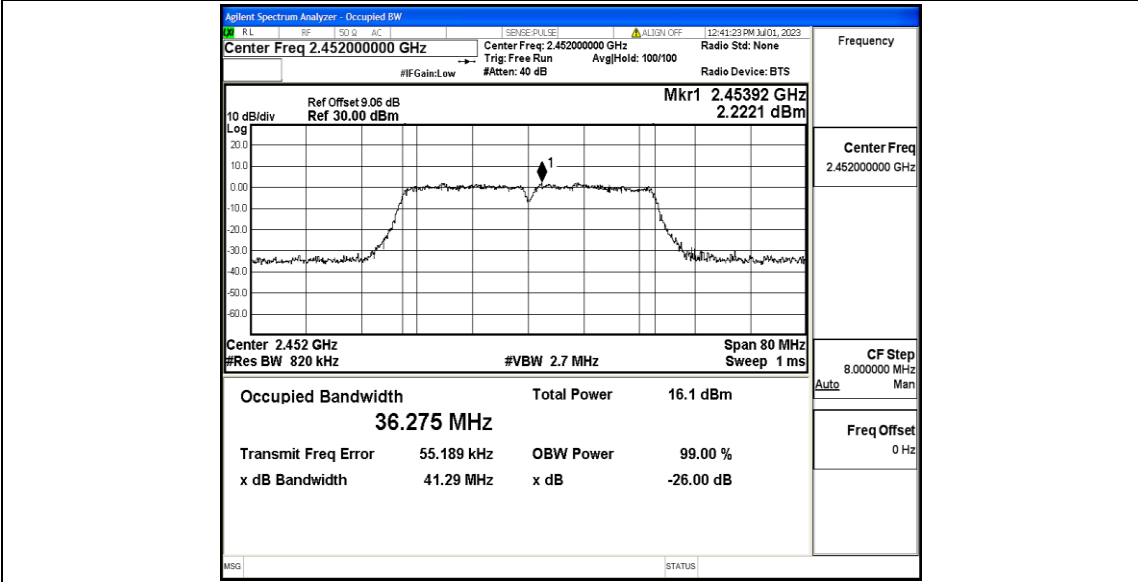
11N40MIMO\_Ant1\_2437



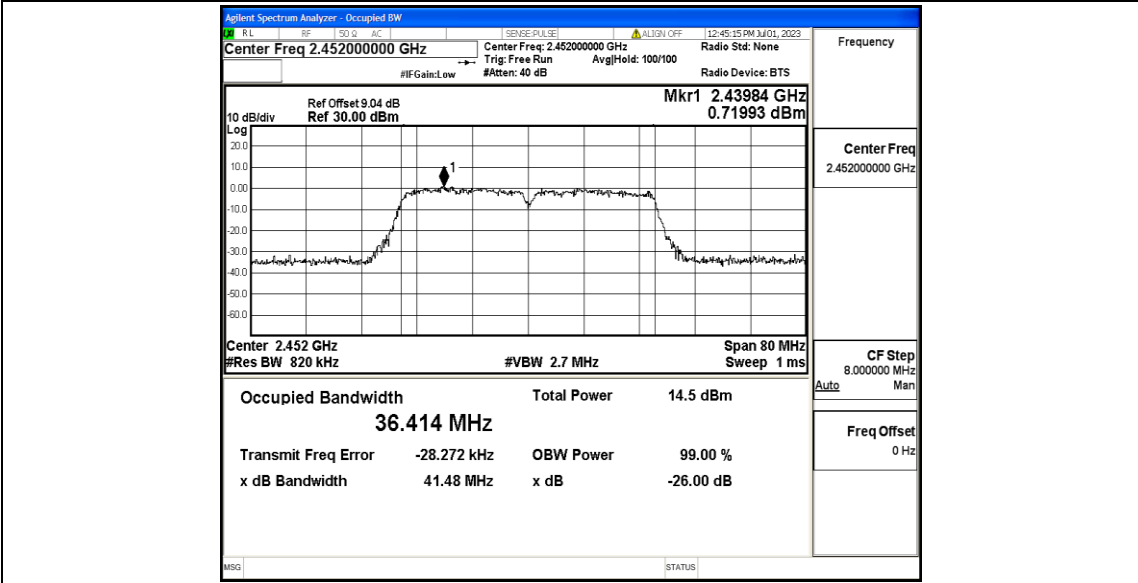
11N40MIMO\_Ant2\_2437



11N40MIMO\_Ant1\_2452



11N40MIMO\_Ant2\_2452



## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	11.44	≤30.00	PASS
	Ant2	2412	8.74	≤30.00	PASS
	Ant1	2437	11.27	≤30.00	PASS
	Ant2	2437	9.29	≤30.00	PASS
	Ant1	2462	10.85	≤30.00	PASS
	Ant2	2462	7.59	≤30.00	PASS
11G	Ant1	2412	13.98	≤30.00	PASS
	Ant2	2412	12.70	≤30.00	PASS
	Ant1	2437	15.00	≤30.00	PASS
	Ant2	2437	13.30	≤30.00	PASS
	Ant1	2462	13.95	≤30.00	PASS
	Ant2	2462	12.08	≤30.00	PASS
11N20MIMO	Ant1	2412	11.46	≤30.00	PASS
	Ant2	2412	10.50	≤30.00	PASS
	total	2412	14.02	≤30.00	PASS
	Ant1	2437	12.30	≤30.00	PASS
	Ant2	2437	11.14	≤30.00	PASS
	total	2437	14.77	≤30.00	PASS
	Ant1	2462	11.43	≤30.00	PASS
	Ant2	2462	9.52	≤30.00	PASS
total	2462	13.59	≤30.00	PASS	
11N40MIMO	Ant1	2422	10.75	≤30.00	PASS
	Ant2	2422	9.15	≤30.00	PASS
	total	2422	13.03	≤30.00	PASS
	Ant1	2437	10.51	≤30.00	PASS
	Ant2	2437	9.15	≤30.00	PASS
	total	2437	12.89	≤30.00	PASS
	Ant1	2452	10.59	≤30.00	PASS
	Ant2	2452	9.50	≤30.00	PASS
	total	2452	13.09	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the test result.

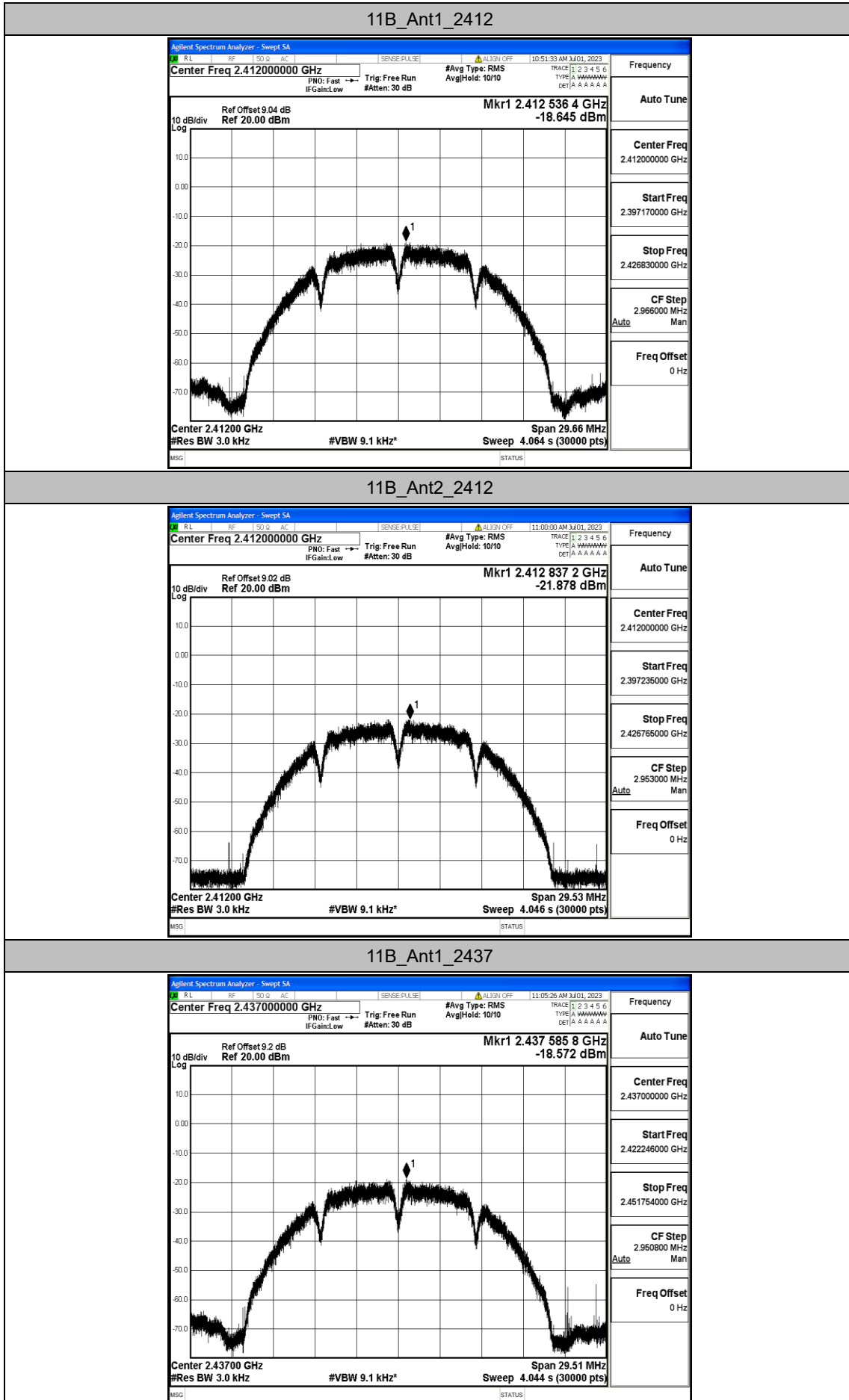
## Appendix D: Maximum power spectral density

### Test Result

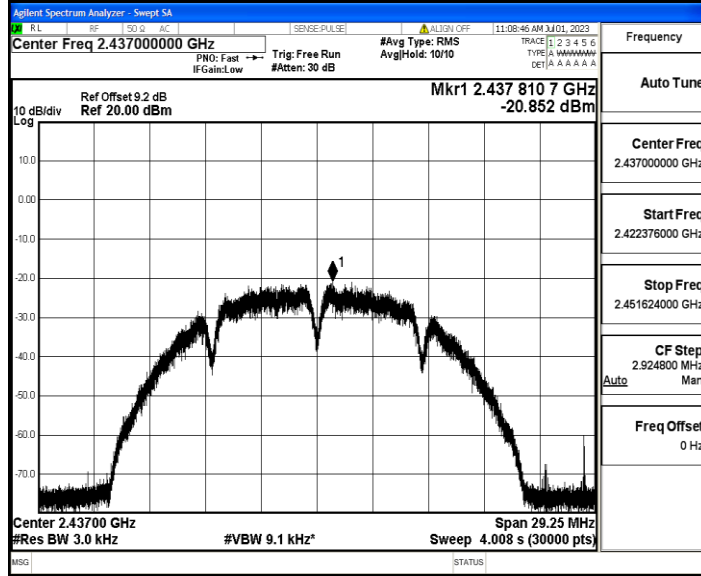
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.65	≤8.00	PASS
	Ant2	2412	-21.88	≤8.00	PASS
	Ant1	2437	-18.57	≤8.00	PASS
	Ant2	2437	-20.85	≤8.00	PASS
	Ant1	2462	-19.19	≤8.00	PASS
	Ant2	2462	-22.87	≤8.00	PASS
11G	Ant1	2412	-16.11	≤8.00	PASS
	Ant2	2412	-17.99	≤8.00	PASS
	Ant1	2437	-15.49	≤8.00	PASS
	Ant2	2437	-16.28	≤8.00	PASS
	Ant1	2462	-15.01	≤8.00	PASS
	Ant2	2462	-17.04	≤8.00	PASS
11N20MIMO	Ant1	2412	-13.91	≤8.00	PASS
	Ant2	2412	-17.48	≤8.00	PASS
	total	2412	-12.33	≤8.00	PASS
	Ant1	2437	-14.03	≤8.00	PASS
	Ant2	2437	-16.49	≤8.00	PASS
	total	2437	-12.08	≤8.00	PASS
	Ant1	2462	-15.01	≤8.00	PASS
	Ant2	2462	-17.53	≤8.00	PASS
	total	2462	-13.08	≤8.00	PASS
11N40MIMO	Ant1	2422	-18.76	≤8.00	PASS
	Ant2	2422	-20.46	≤8.00	PASS
	total	2422	-16.52	≤8.00	PASS
	Ant1	2437	-18.44	≤8.00	PASS
	Ant2	2437	-19.79	≤8.00	PASS
	total	2437	-16.05	≤8.00	PASS
	Ant1	2452	-19.12	≤8.00	PASS
	Ant2	2452	-20.24	≤8.00	PASS
	total	2452	-16.63	≤8.00	PASS

Note: The Duty Cycle Factor is compensated in the test result.

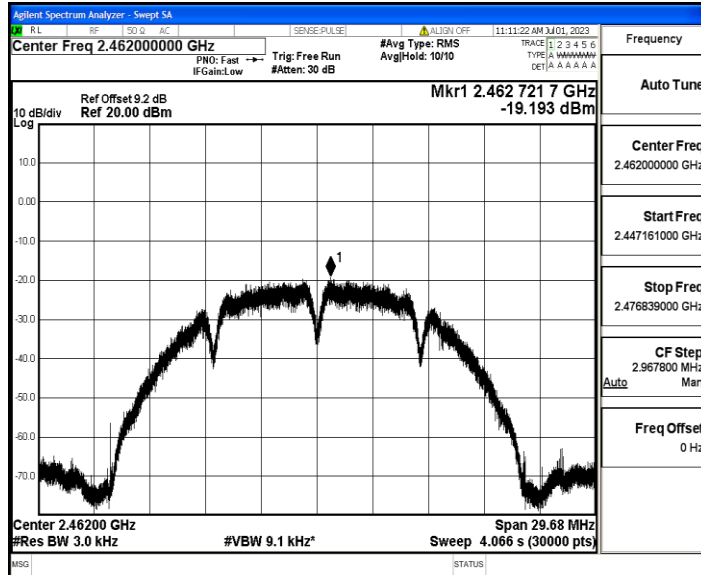
### Test Graphs



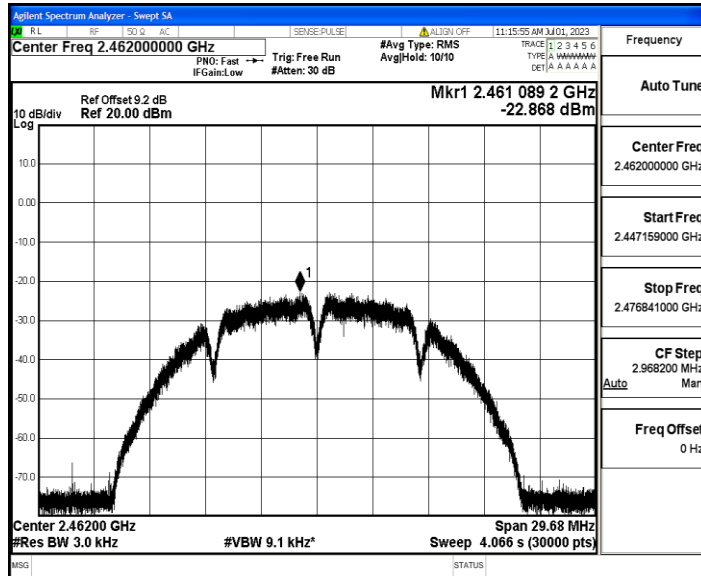
11B\_Ant2\_2437



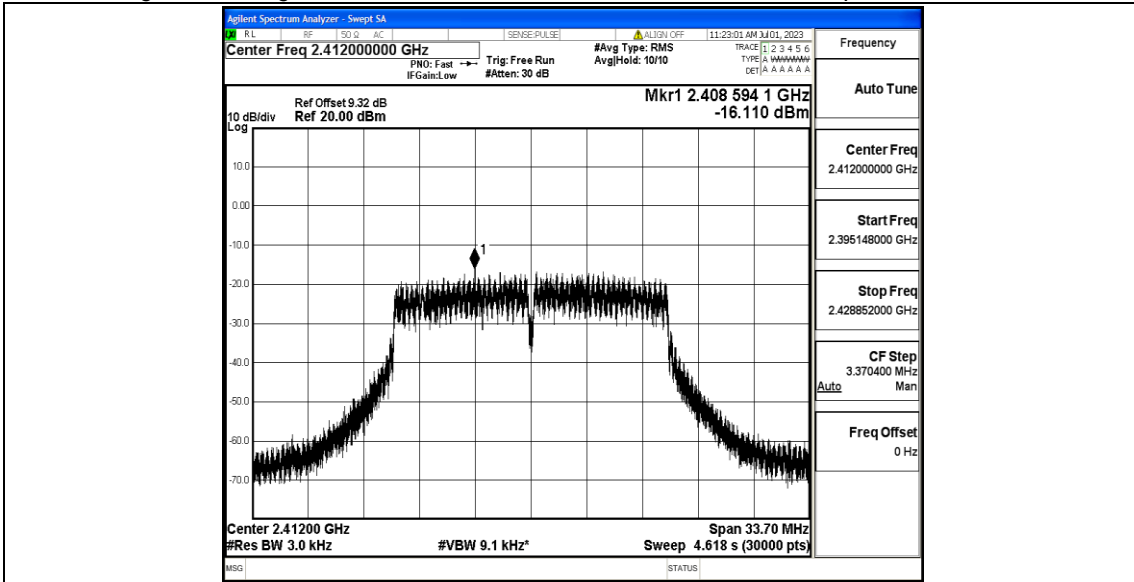
11B\_Ant1\_2462



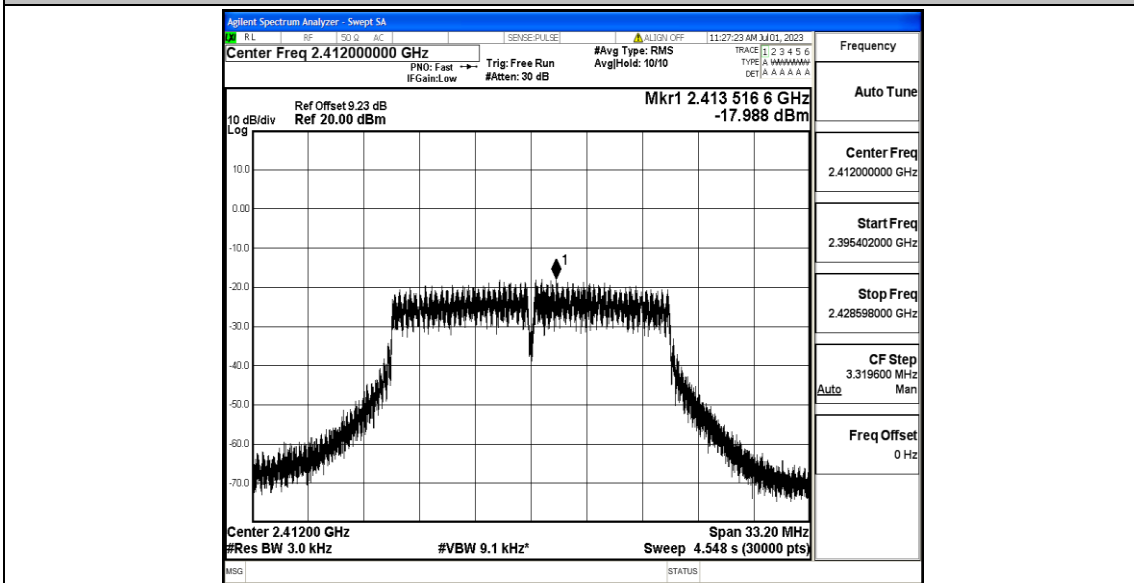
11B\_Ant2\_2462



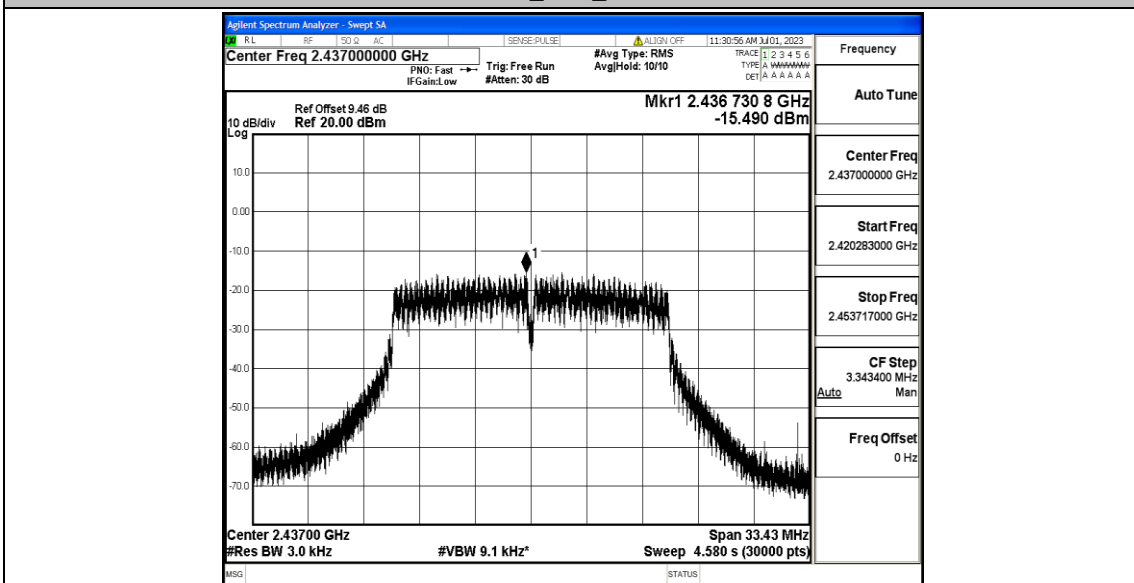
11G\_Ant1\_2412



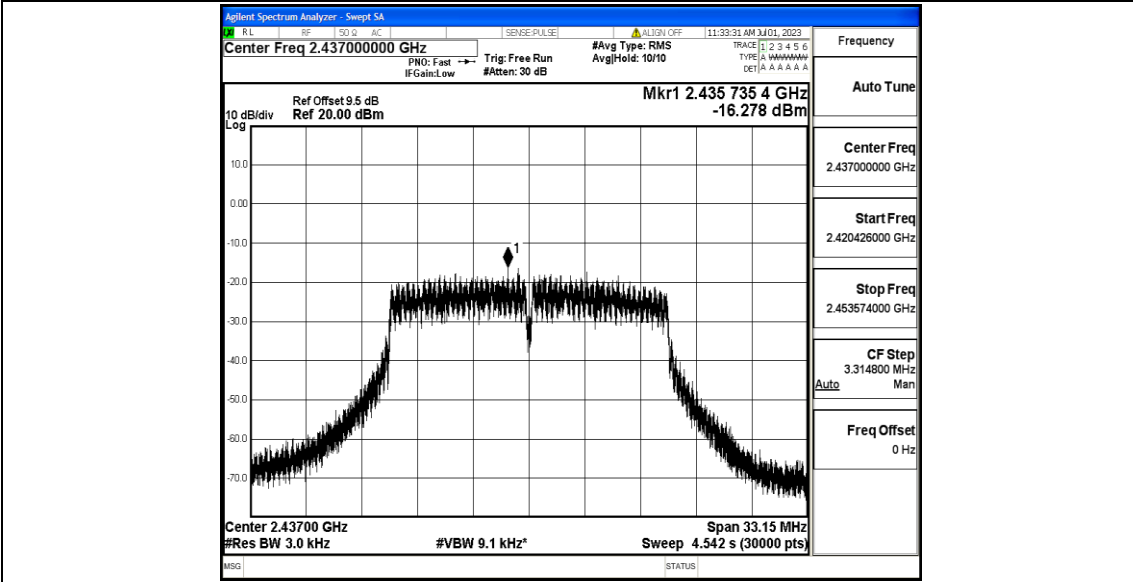
11G\_Ant2\_2412



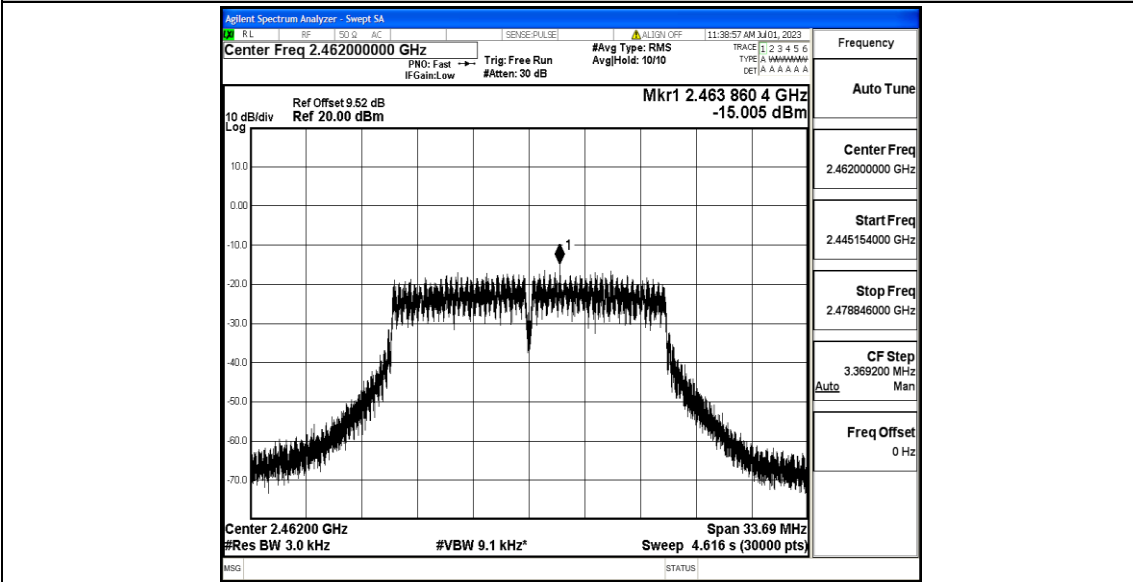
11G\_Ant1\_2437



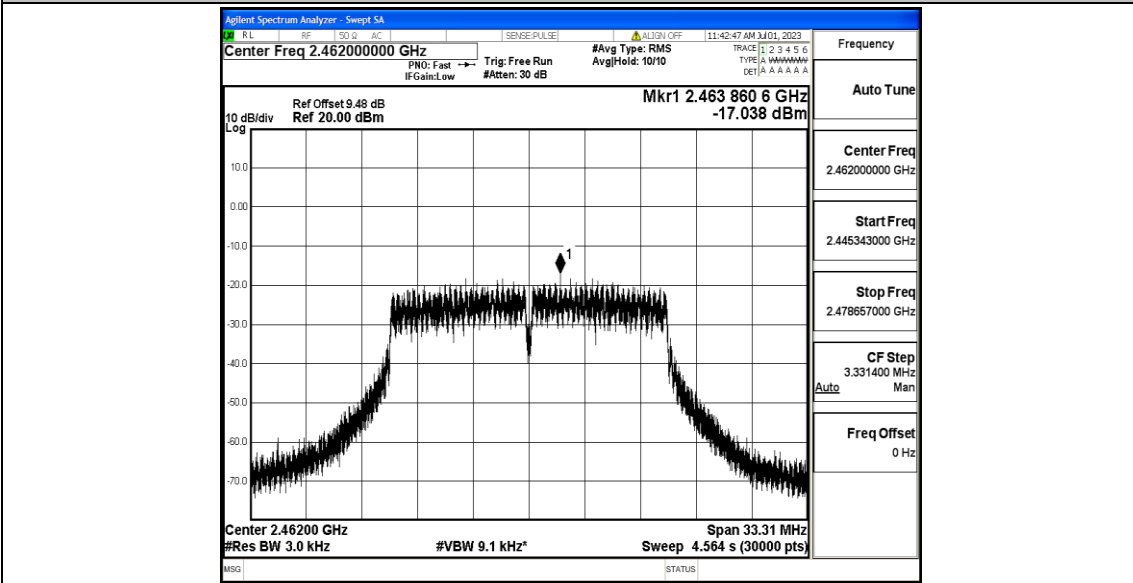
11G\_Ant2\_2437



11G\_Ant1\_2462

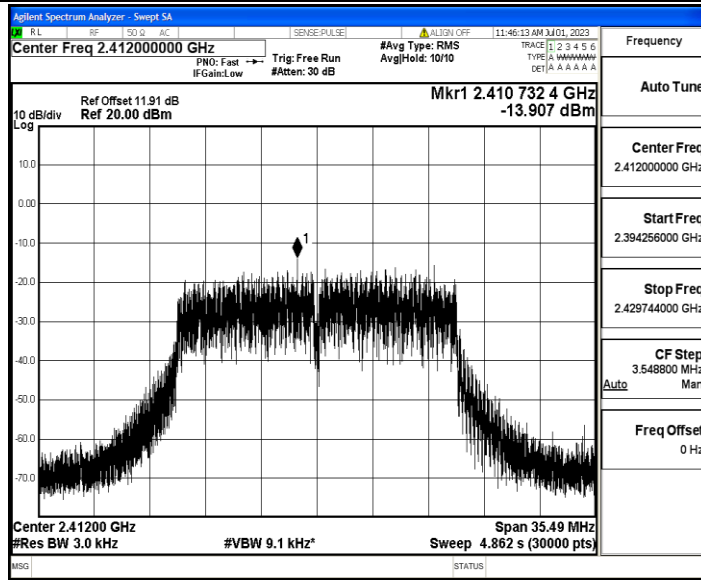


11G\_Ant2\_2462

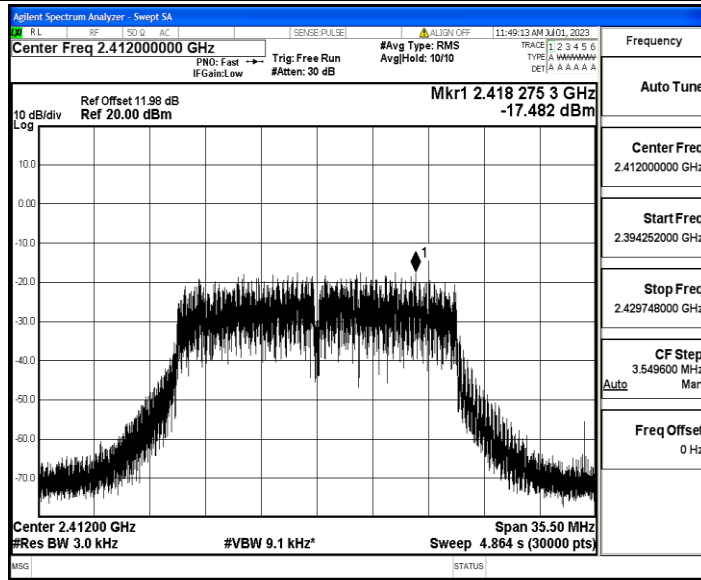


11N20MIMO\_Ant1\_2412

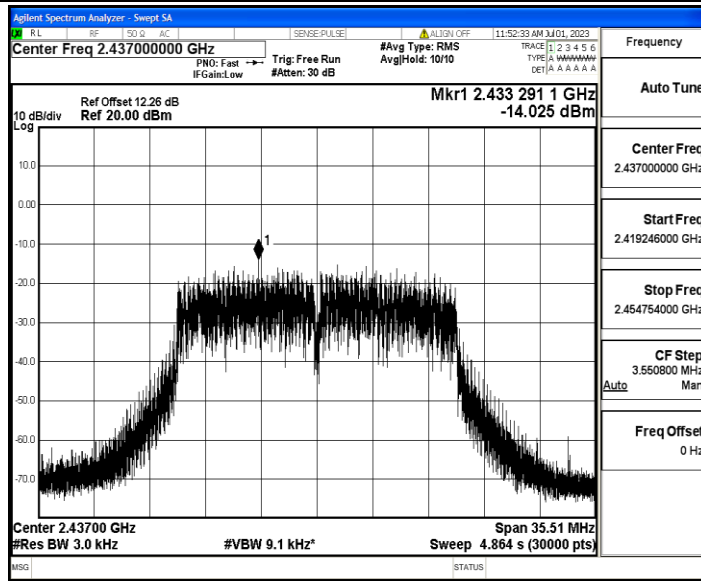




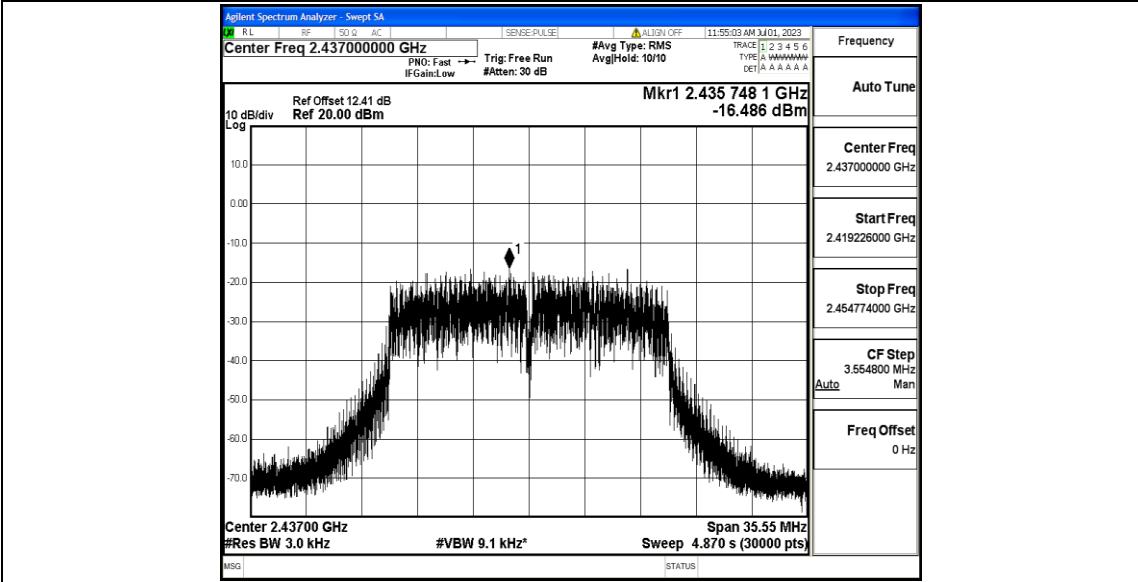
11N20MIMO\_Ant2\_2412



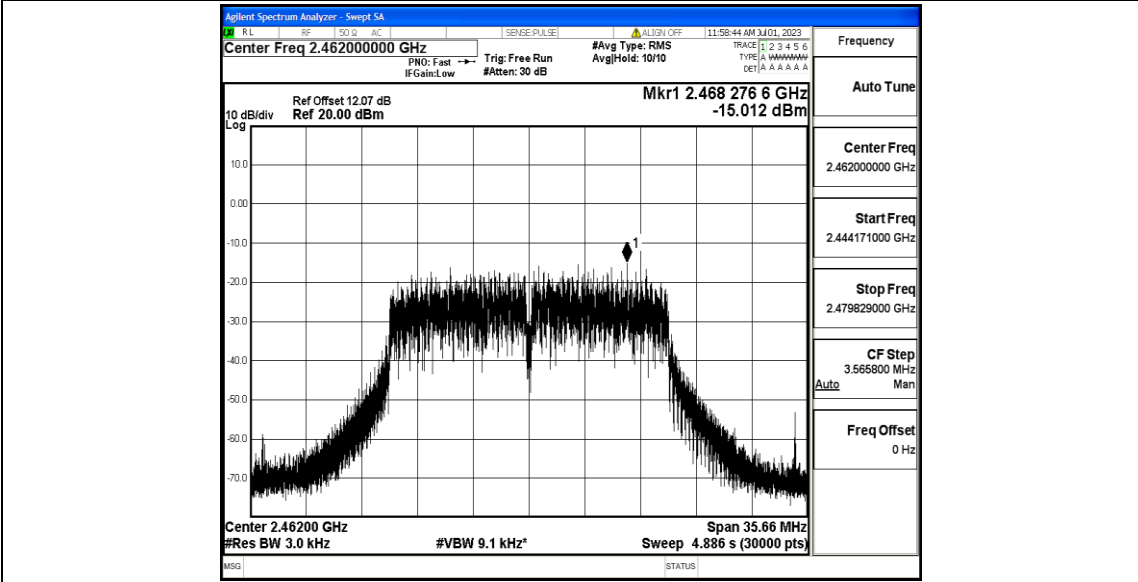
11N20MIMO\_Ant1\_2437



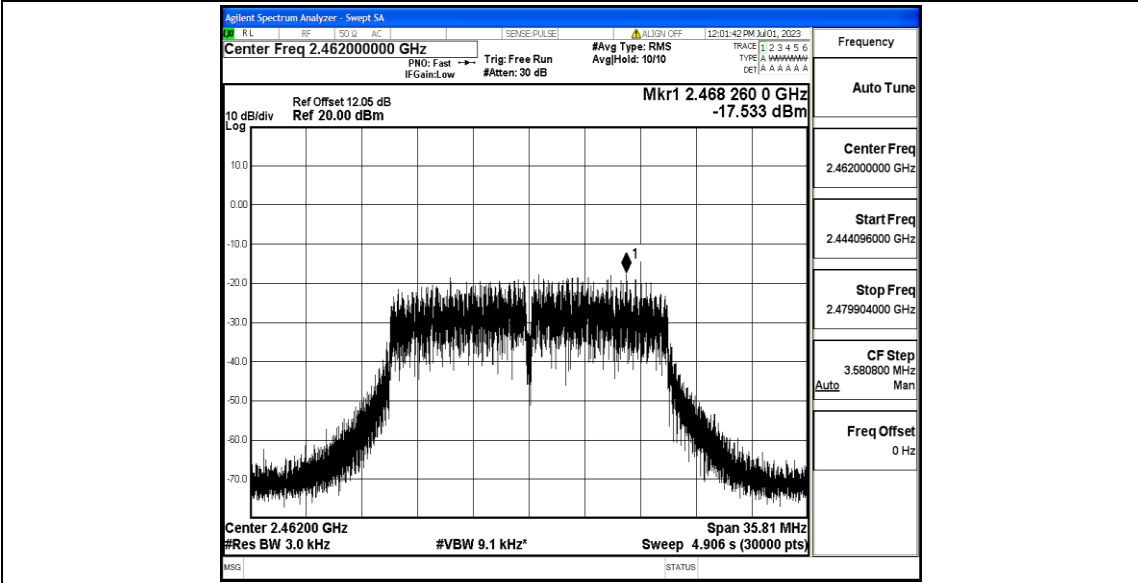
11N20MIMO\_Ant2\_2437



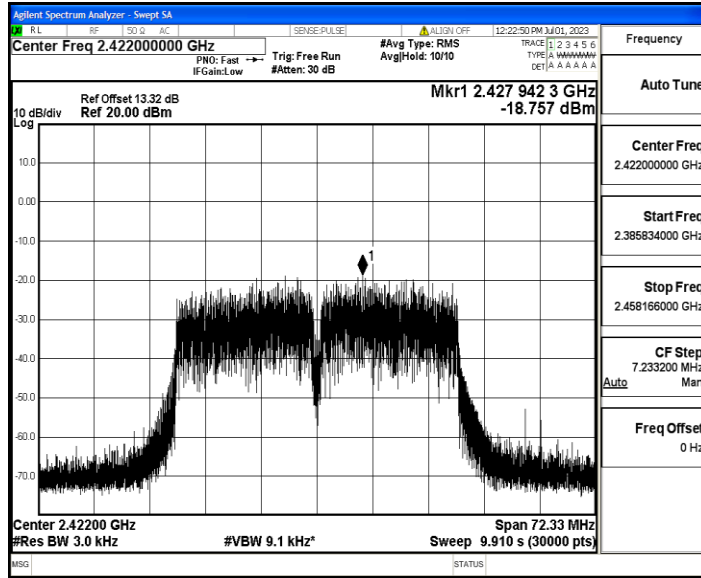
11N20MIMO\_Ant1\_2462



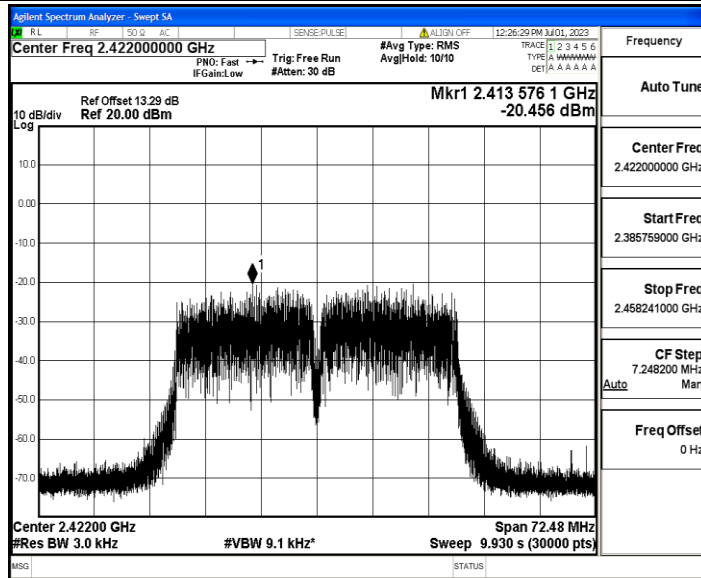
11N20MIMO\_Ant2\_2462



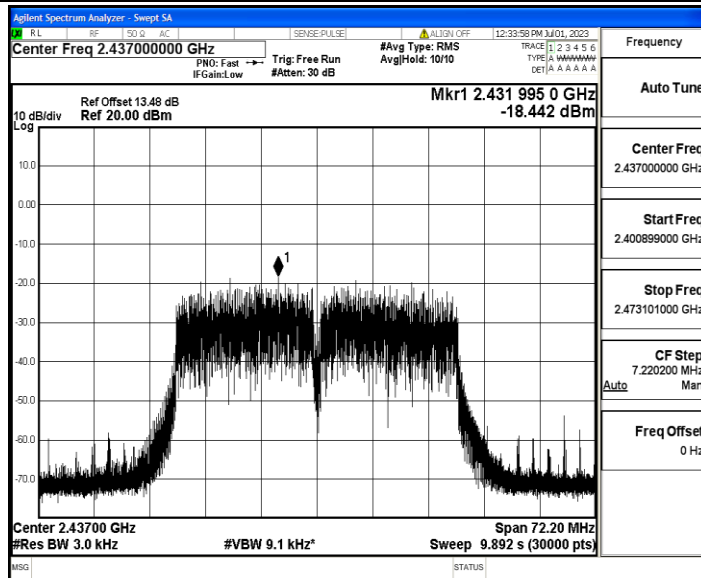
11N40MIMO\_Ant1\_2422



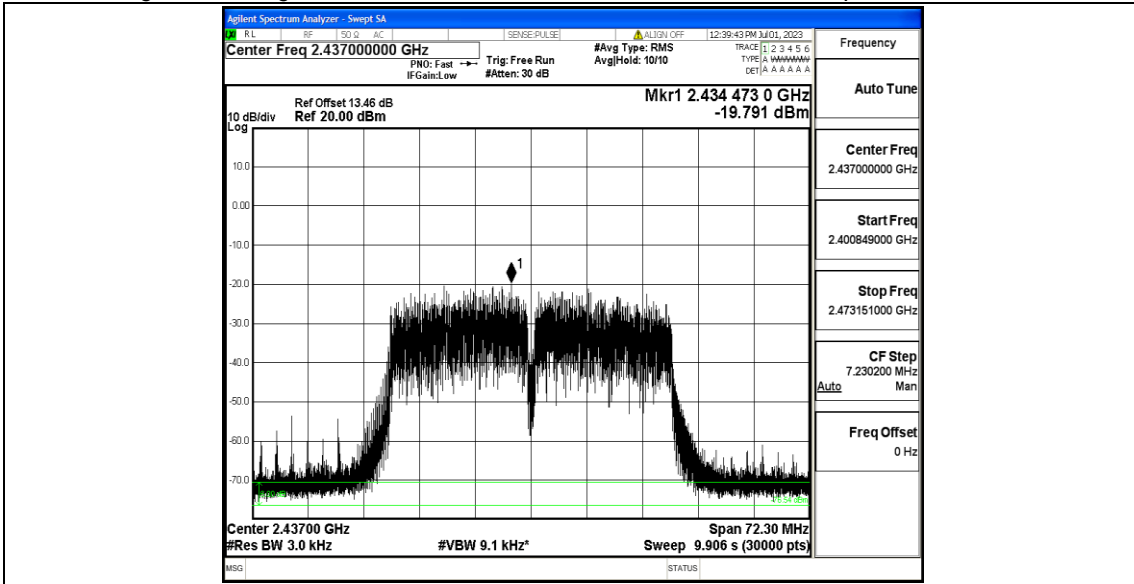
11N40MIMO\_Ant2\_2422



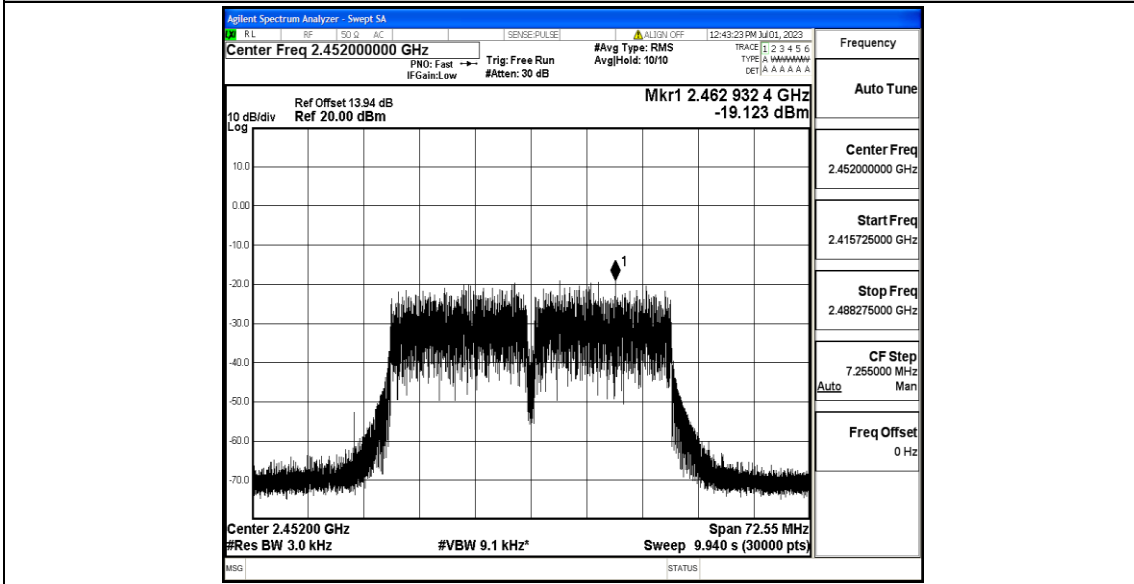
11N40MIMO\_Ant1\_2437



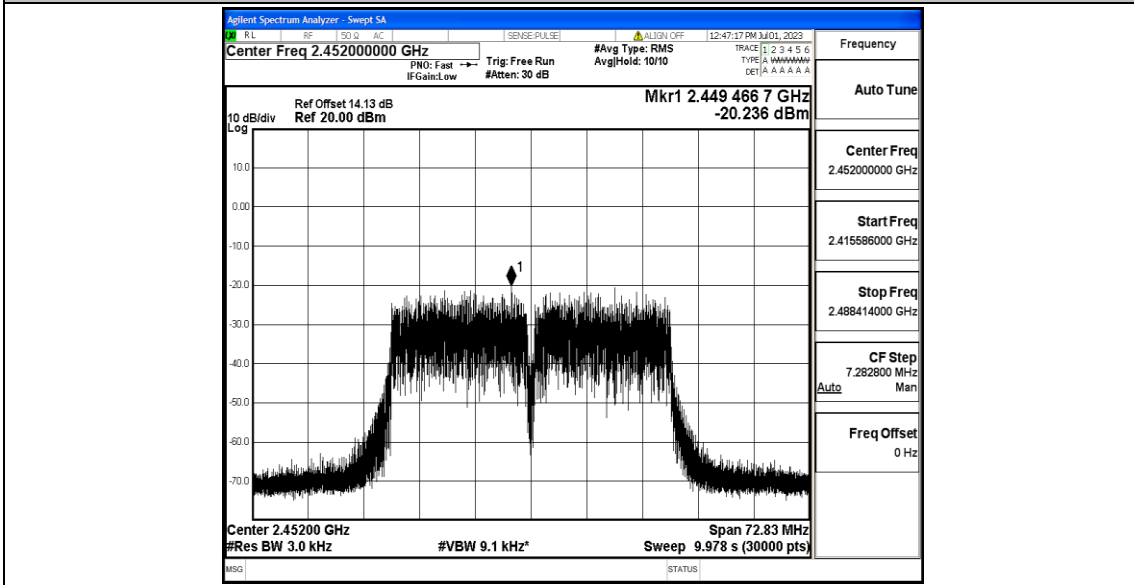
11N40MIMO\_Ant2\_2437



11N40MIMO\_Ant1\_2452



11N40MIMO\_Ant2\_2452

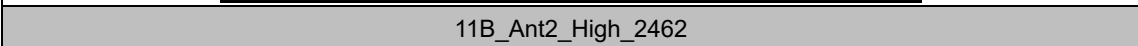
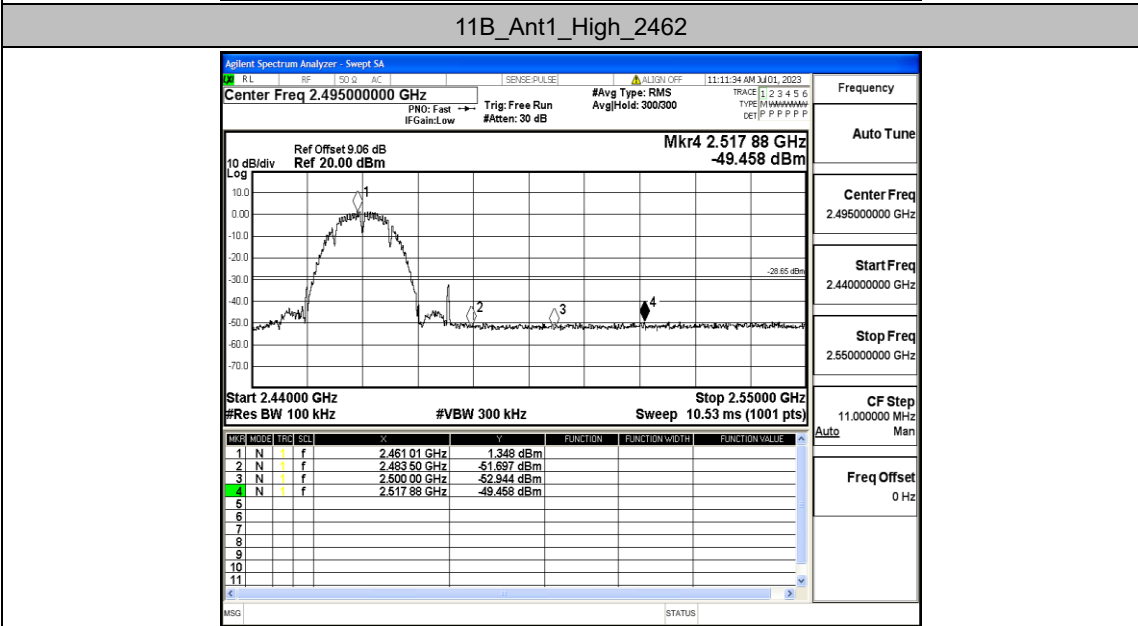
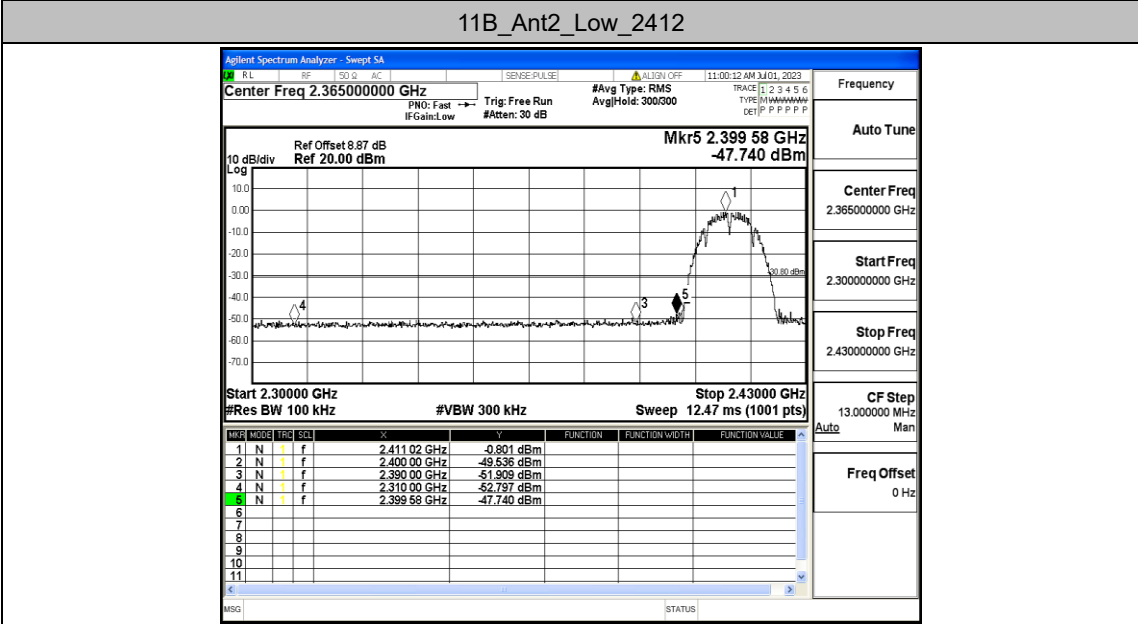
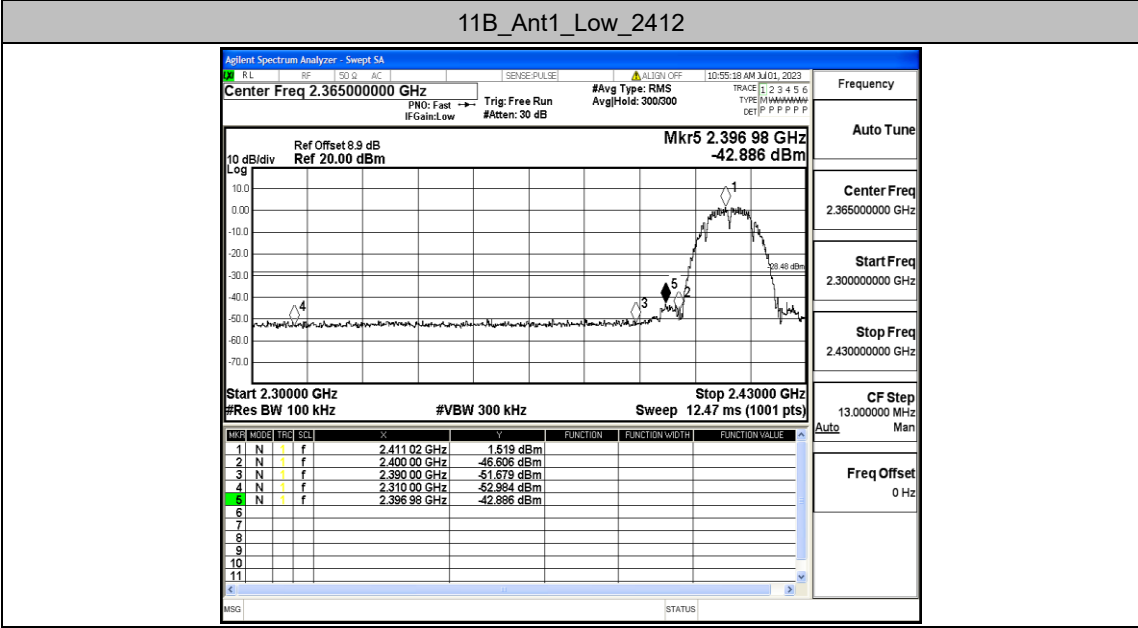


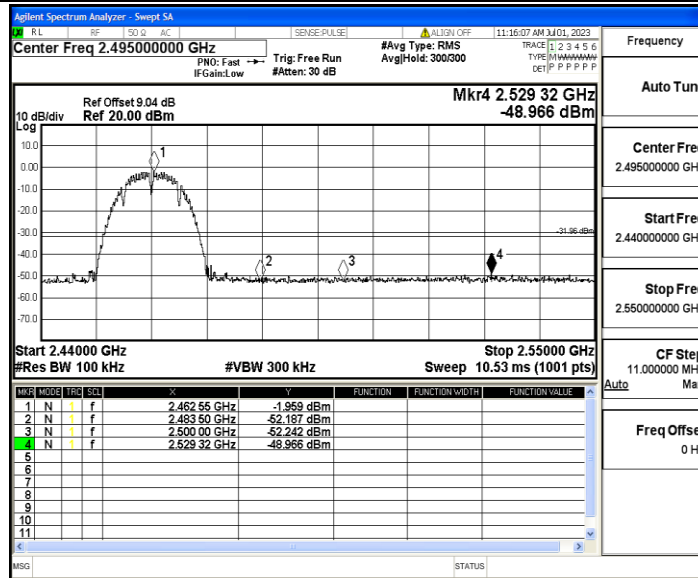
## Appendix E: Band edge measurements

### Test Result

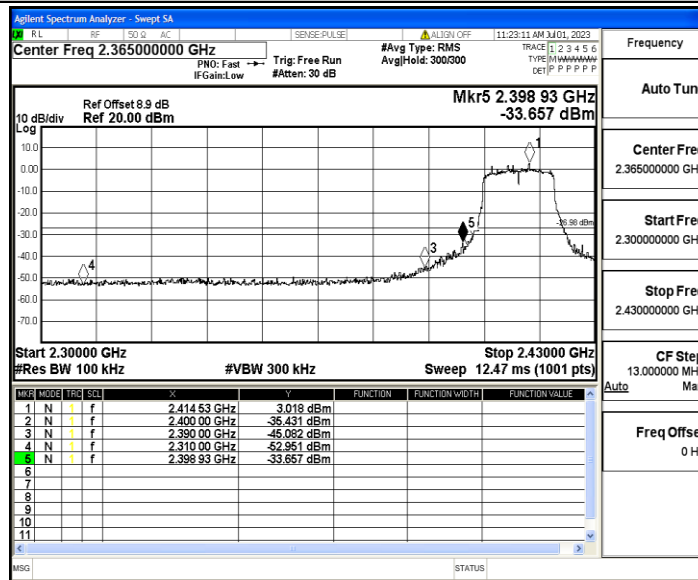
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.52	-42.89	≤-28.48	PASS
	Ant2	Low	2412	-0.80	-47.74	≤-30.8	PASS
	Ant1	High	2462	1.35	-49.46	≤-28.65	PASS
	Ant2	High	2462	-1.96	-48.97	≤-31.96	PASS
11G	Ant1	Low	2412	3.02	-33.66	≤-26.98	PASS
	Ant2	Low	2412	2.03	-36.26	≤-27.97	PASS
	Ant1	High	2462	3.43	-44.8	≤-26.58	PASS
	Ant2	High	2462	1.32	-47.54	≤-28.68	PASS
11N20MIMO	Ant1	Low	2412	0.40	-37.16	≤-29.6	PASS
	Ant2	Low	2412	-0.69	-38.41	≤-30.69	PASS
	Ant1	High	2462	0.30	-48.94	≤-29.7	PASS
	Ant2	High	2462	-1.55	-47.81	≤-31.55	PASS
11N40MIMO	Ant1	Low	2422	-3.33	-43.46	≤-33.33	PASS
	Ant2	Low	2422	-4.87	-43.07	≤-34.87	PASS
	Ant1	High	2452	-4.47	-48.51	≤-34.47	PASS
	Ant2	High	2452	-6.03	-47.2	≤-36.03	PASS

Test Graphs

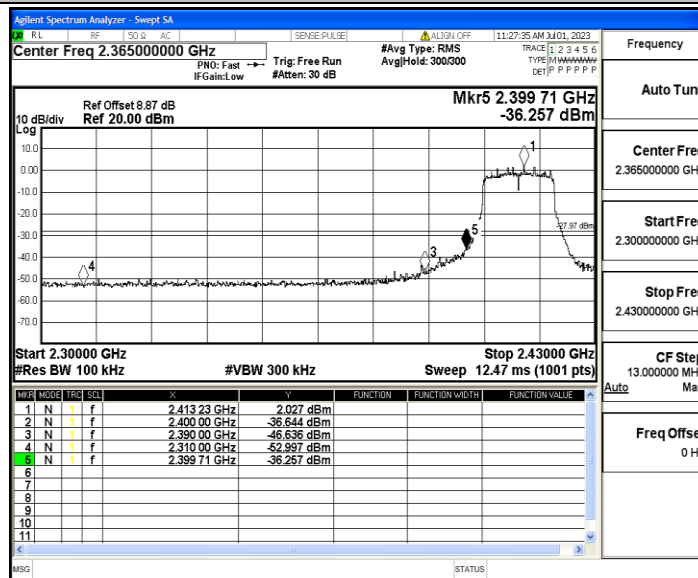




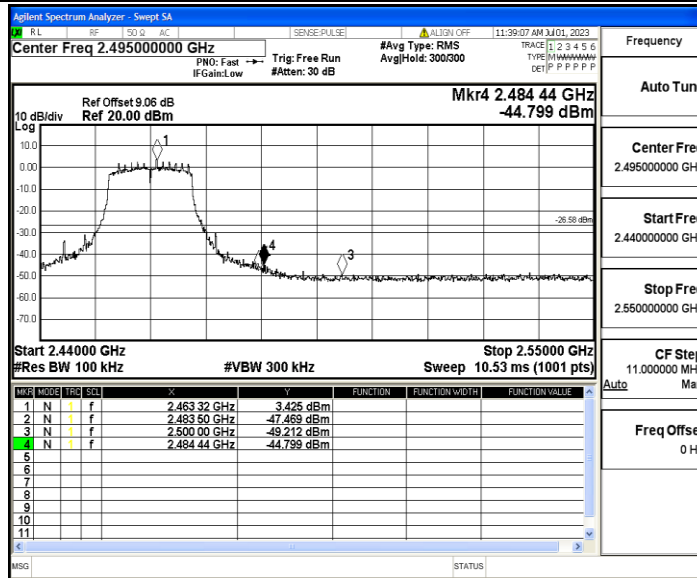
11G\_Ant1\_Low\_2412



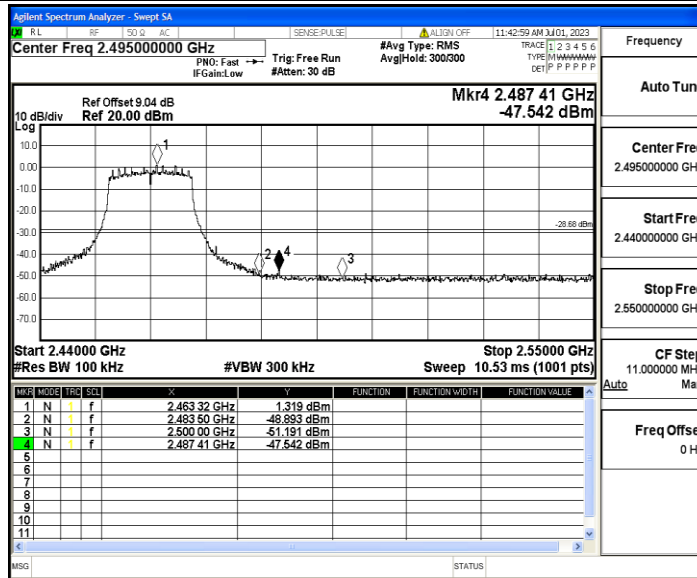
11G\_Ant2\_Low\_2412



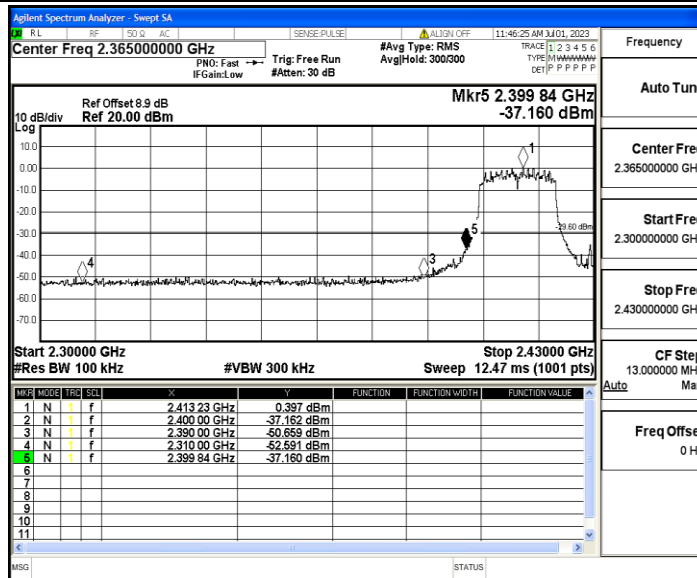
11G\_Ant1\_High\_2462



11G\_Ant2\_High\_2462

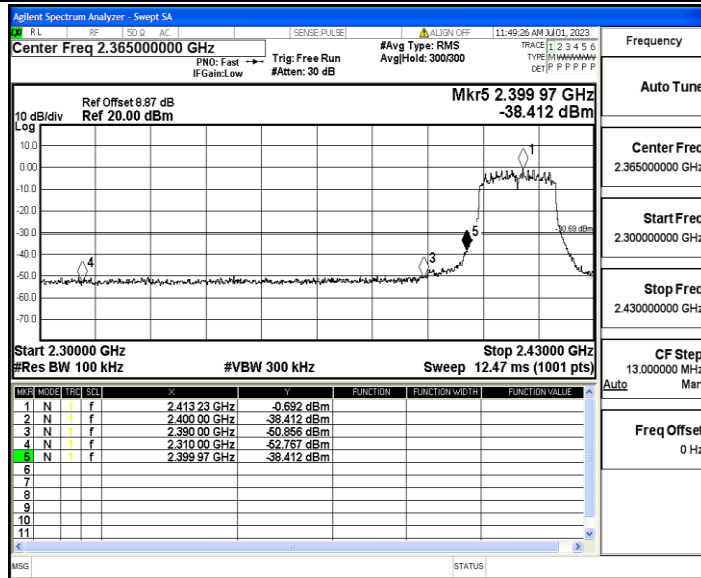


11N20MIMO\_Ant1\_Low\_2412

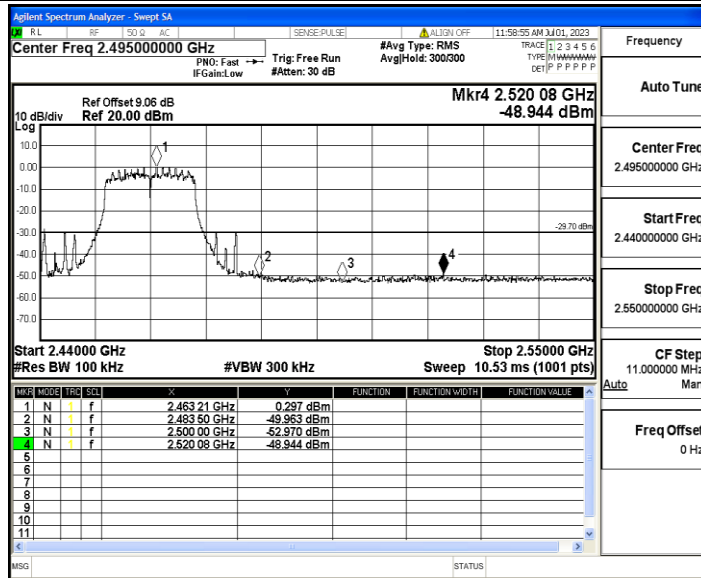


11N20MIMO\_Ant2\_Low\_2412

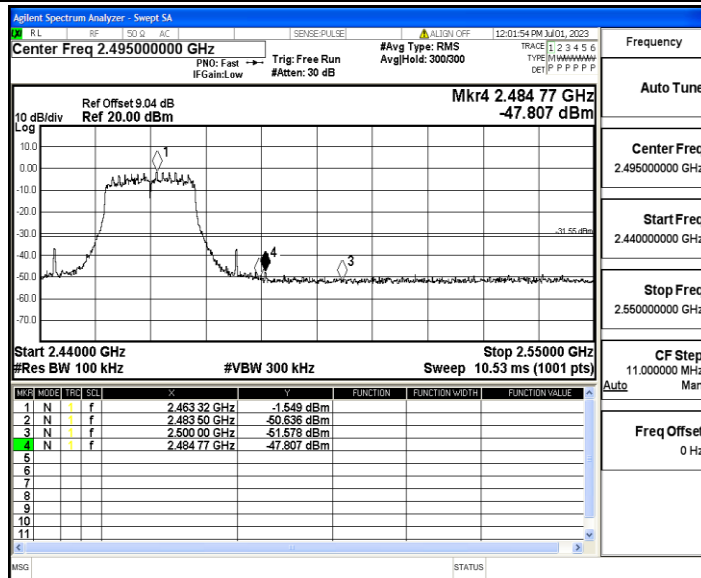




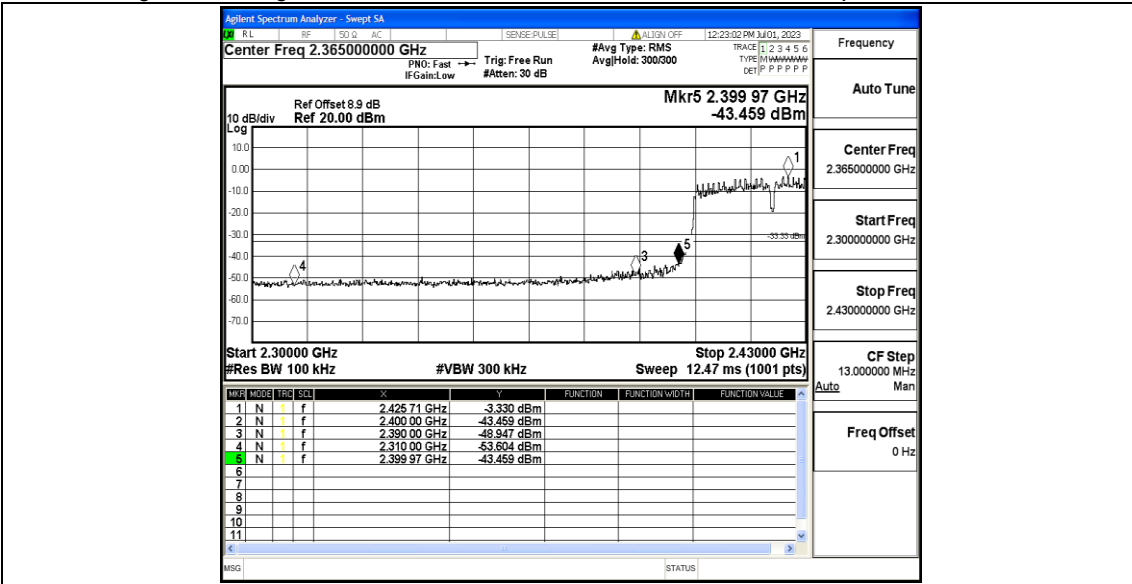
11N20MIMO\_Ant1\_High\_2462



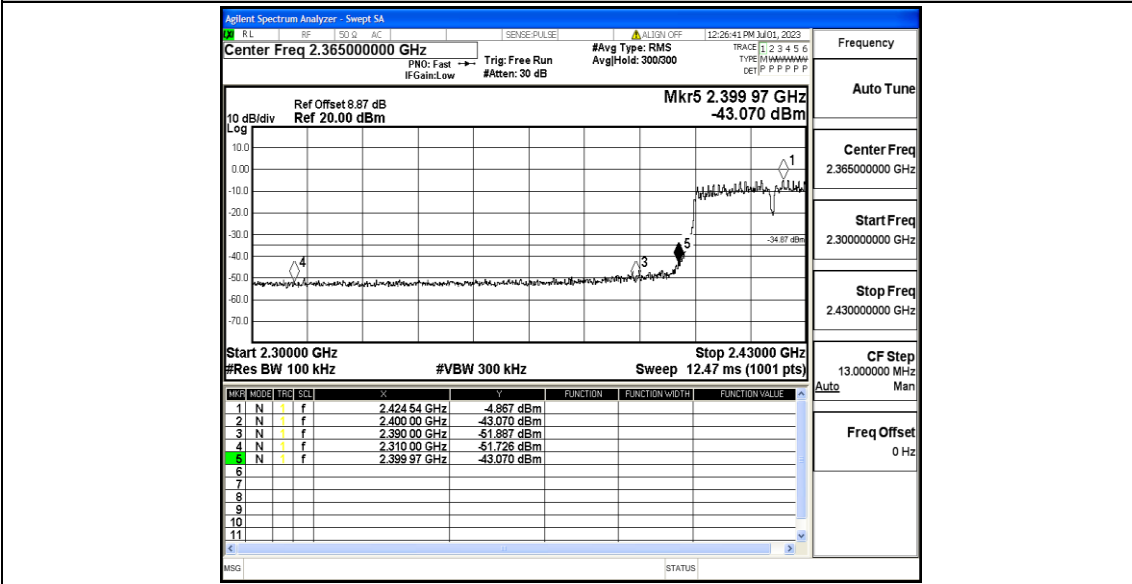
11N20MIMO\_Ant2\_High\_2462



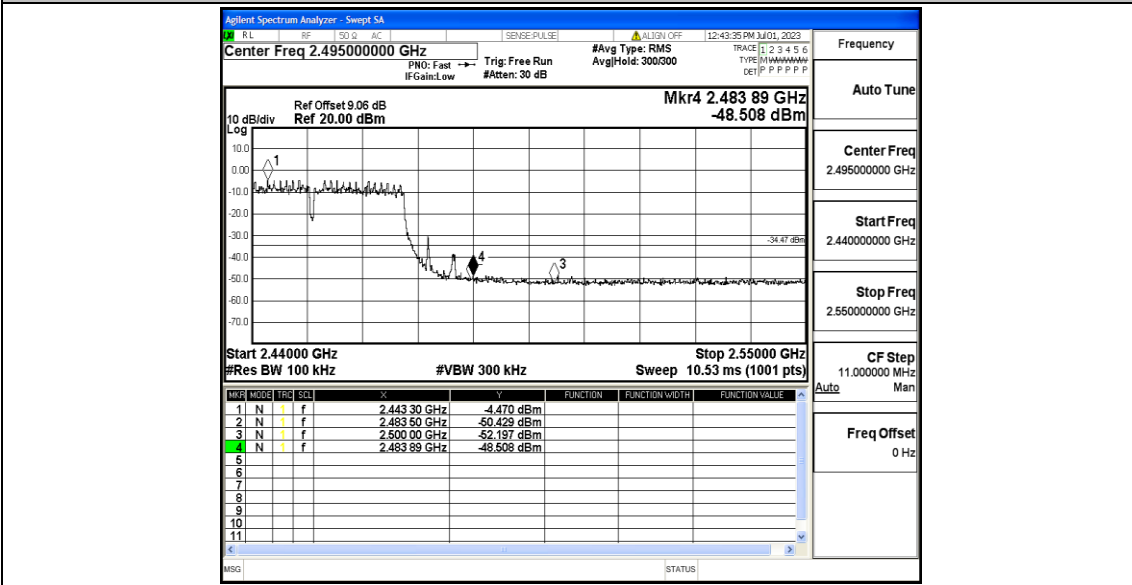
11N40MIMO\_Ant1\_Low\_2422



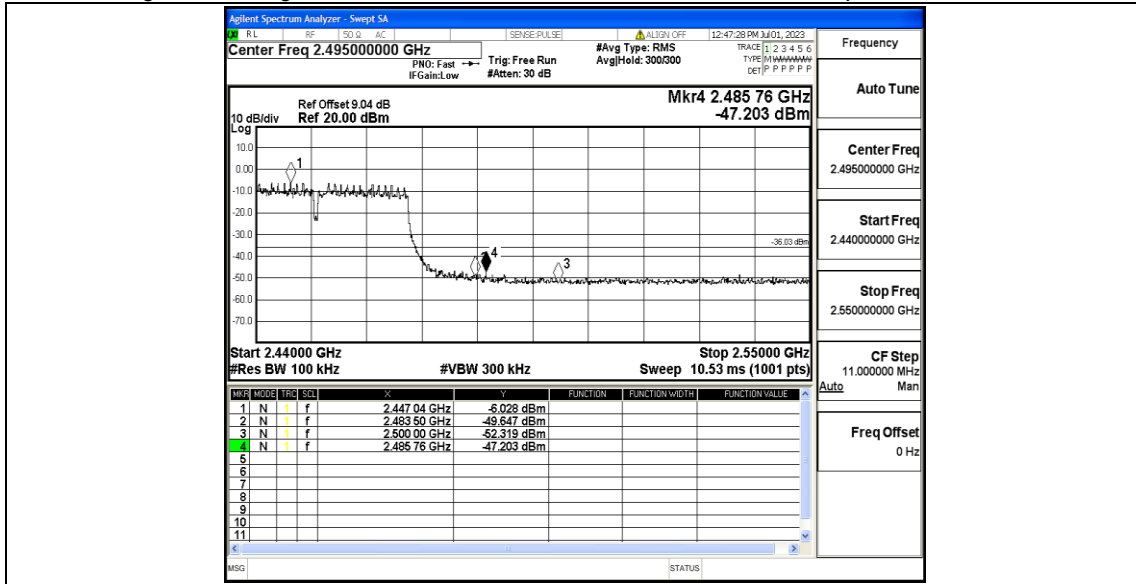
11N40MIMO\_Ant2\_Low\_2422



11N40MIMO\_Ant1\_High\_2452



11N40MIMO\_Ant2\_High\_2452



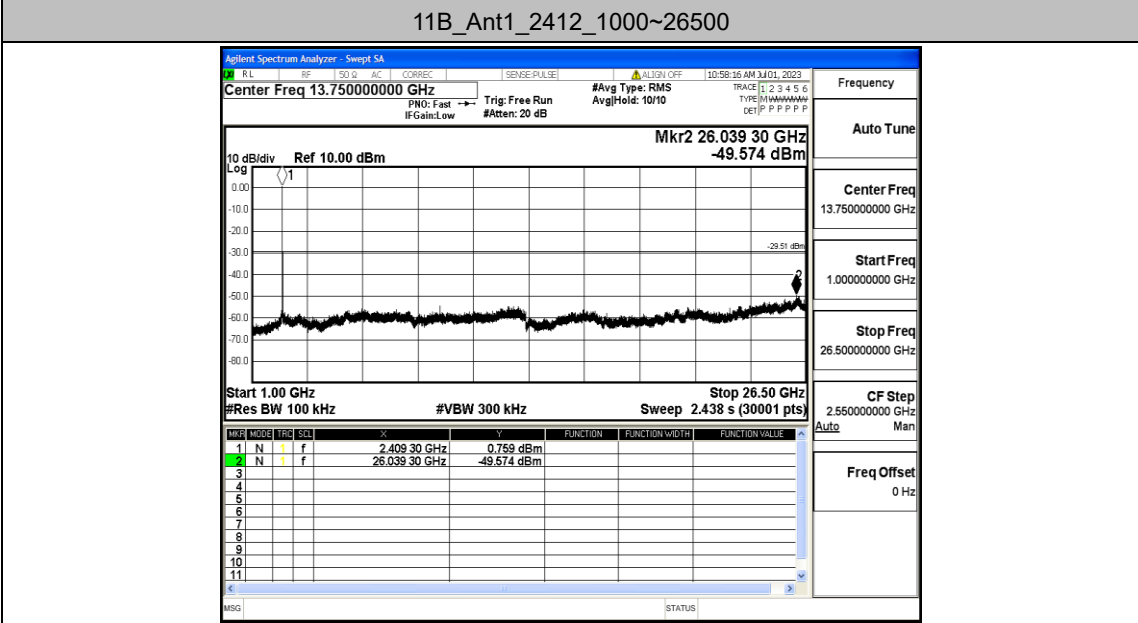
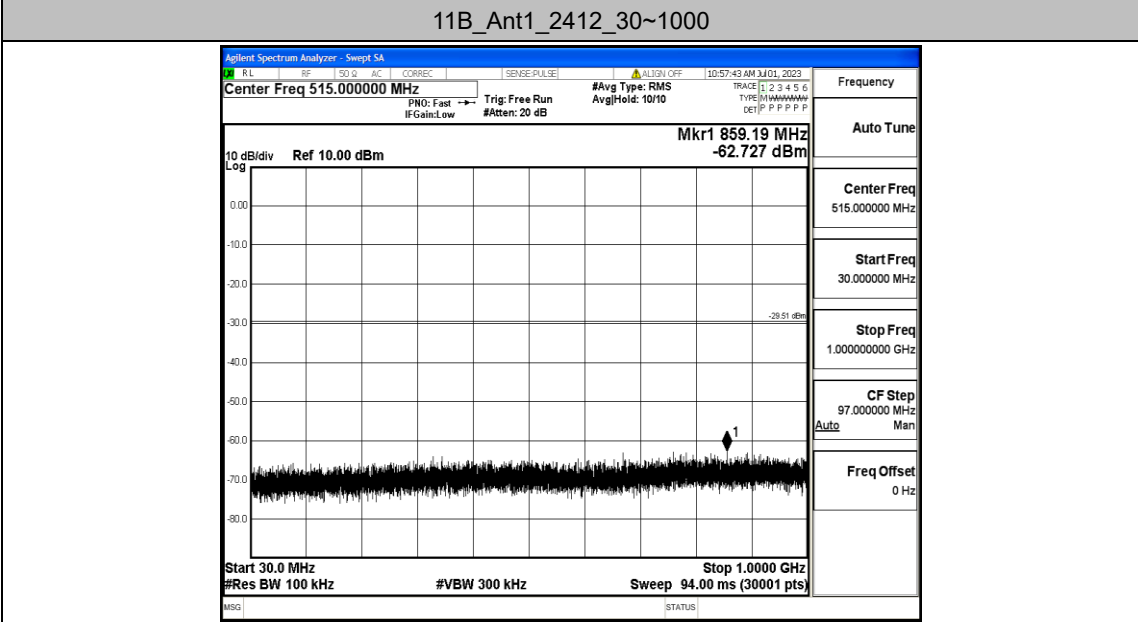
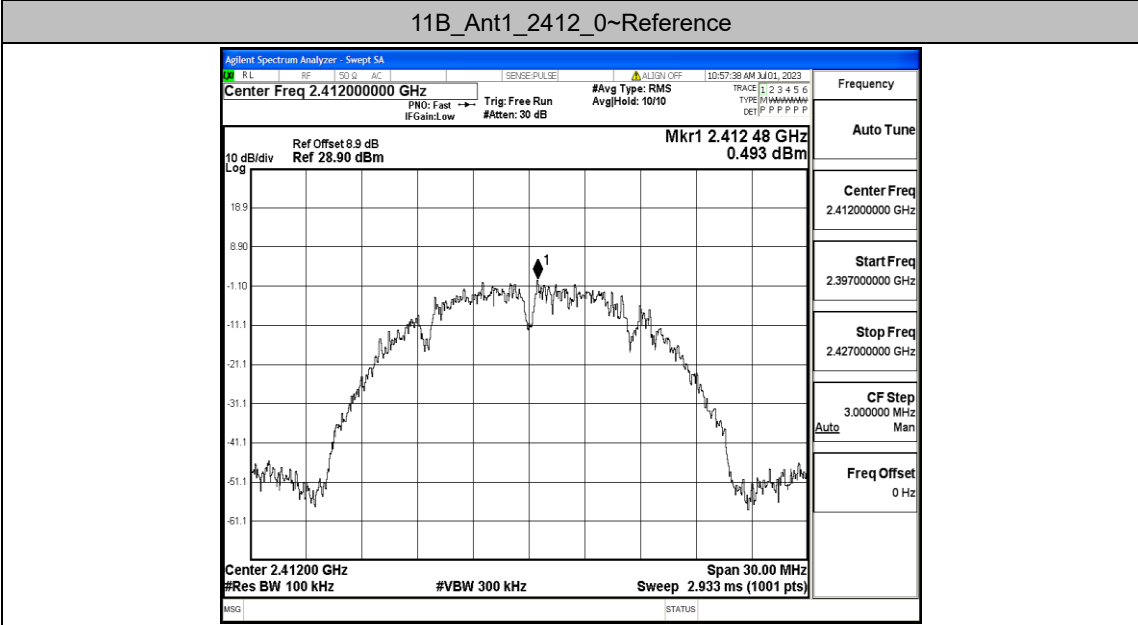
## Appendix F: Conducted Spurious Emission

### Test Result

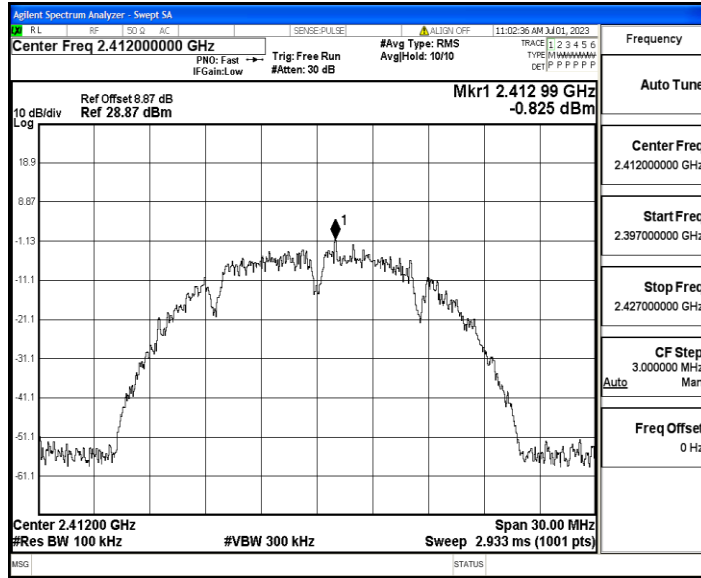
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.49	0.49	---	PASS
			30~1000	0.49	-62.73	≤-29.51	PASS
			1000~26500	0.49	-49.57	≤-29.51	PASS
	Ant2	2412	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-62.54	≤-30.83	PASS
			1000~26500	-0.83	-50.4	≤-30.83	PASS
	Ant1	2437	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-62.55	≤-29.08	PASS
			1000~26500	0.92	-49.53	≤-29.08	PASS
	Ant2	2437	Reference	-1.67	-1.67	---	PASS
			30~1000	-1.67	-62.62	≤-31.67	PASS
			1000~26500	-1.67	-49.78	≤-31.67	PASS
	Ant1	2462	Reference	-0.01	-0.01	---	PASS
			30~1000	-0.01	-62.12	≤-30.01	PASS
			1000~26500	-0.01	-49.66	≤-30.01	PASS
	Ant2	2462	Reference	-3.35	-3.35	---	PASS
			30~1000	-3.35	-61.31	≤-33.35	PASS
			1000~26500	-3.35	-50.19	≤-33.35	PASS
11G	Ant1	2412	Reference	1.75	1.75	---	PASS
			30~1000	1.75	-62.65	≤-28.25	PASS
			1000~26500	1.75	-50.11	≤-28.25	PASS
	Ant2	2412	Reference	0.14	0.14	---	PASS
			30~1000	0.14	-62.19	≤-29.86	PASS
			1000~26500	0.14	-50.52	≤-29.86	PASS
	Ant1	2437	Reference	3.44	3.44	---	PASS
			30~1000	3.44	-62.33	≤-26.56	PASS
			1000~26500	3.44	-49.33	≤-26.56	PASS
	Ant2	2437	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-63.16	≤-28.76	PASS
			1000~26500	1.24	-49.42	≤-28.76	PASS
	Ant1	2462	Reference	0.53	0.53	---	PASS
			30~1000	0.53	-62.75	≤-29.47	PASS
			1000~26500	0.53	-50.24	≤-29.47	PASS
	Ant2	2462	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-62.68	≤-29.96	PASS
			1000~26500	0.04	-50.22	≤-29.96	PASS
11N20MIMO	Ant1	2412	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-63.19	≤-30.21	PASS
			1000~26500	-0.21	-50.05	≤-30.21	PASS
	Ant2	2412	Reference	-2.96	-2.96	---	PASS
			30~1000	-2.96	-62.28	≤-32.96	PASS

	Ant1	2437	1000~26500	-2.96	-50.05	≤-32.96	PASS
			Reference	0.18	0.18	---	PASS
			30~1000	0.18	-63.21	≤-29.82	PASS
	Ant2	2437	1000~26500	0.18	-49.7	≤-29.82	PASS
			Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-62.72	≤-30.49	PASS
	Ant1	2462	1000~26500	-0.49	-50.32	≤-30.49	PASS
			Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-62.56	≤-31.53	PASS
	Ant2	2462	1000~26500	-1.53	-49.71	≤-31.53	PASS
			Reference	-3.60	-3.60	---	PASS
			30~1000	-3.60	-62.22	≤-33.6	PASS
11N40MIMO	Ant1	2422	1000~26500	-3.60	-49.73	≤-33.6	PASS
			Reference	-3.84	-3.84	---	PASS
			30~1000	-3.84	-63.09	≤-33.84	PASS
	Ant2	2422	1000~26500	-3.84	-49.53	≤-33.84	PASS
			Reference	-6.10	-6.10	---	PASS
			30~1000	-6.10	-62.76	≤-36.1	PASS
	Ant1	2437	1000~26500	-6.10	-49.84	≤-36.1	PASS
			Reference	-3.87	-3.87	---	PASS
			30~1000	-3.87	-63.06	≤-33.87	PASS
	Ant2	2437	1000~26500	-3.87	-50.25	≤-33.87	PASS
			Reference	-6.73	-6.73	---	PASS
			30~1000	-6.73	-62.06	≤-36.73	PASS
Ant1	2452	1000~26500	-6.73	-50.55	≤-36.73	PASS	
		Reference	-4.76	-4.76	---	PASS	
		30~1000	-4.76	-62.92	≤-34.76	PASS	
Ant2	2452	1000~26500	-4.76	-50.67	≤-34.76	PASS	
		Reference	-6.23	-6.23	---	PASS	
		30~1000	-6.23	-62.56	≤-36.23	PASS	
			1000~26500	-6.23	-50.31	≤-36.23	PASS

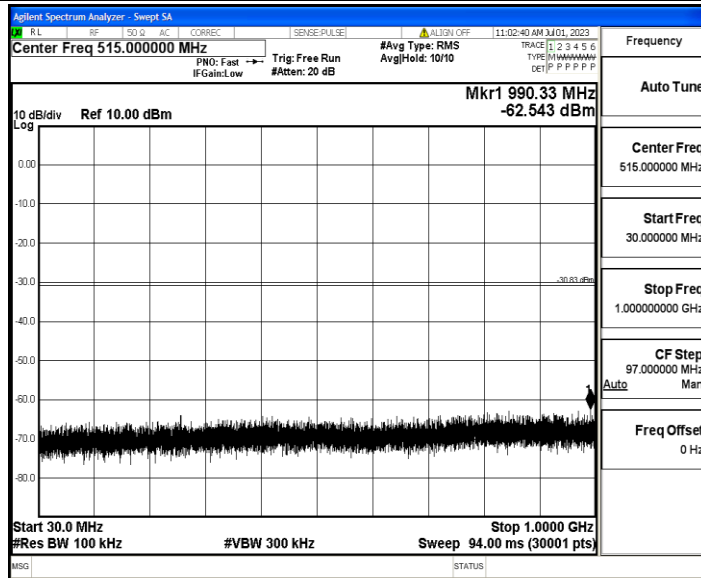
Test Graphs



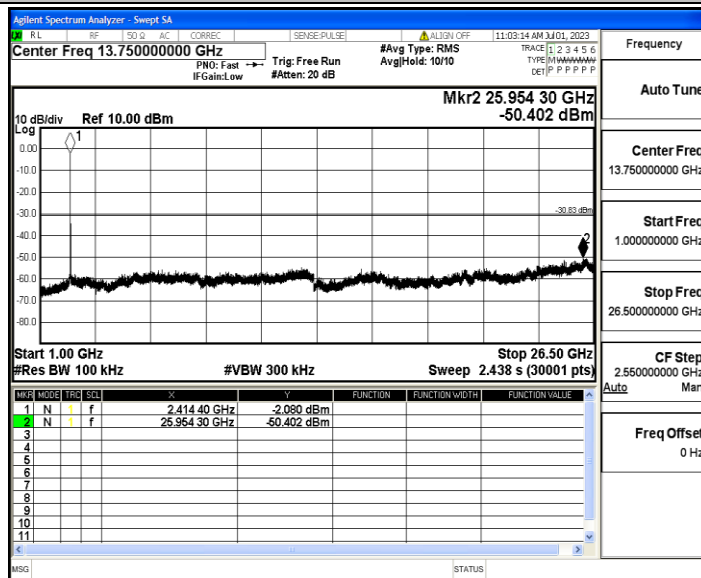
11B\_Ant2\_2412\_0~Reference



11B\_Ant2\_2412\_30~1000



11B\_Ant2\_2412\_1000~26500



11B\_Ant1\_2437\_0~Reference