

FCC Appendix RF Test Data for 2.4GWIFI

Company: : Shenzhen Vikcent Technology Co., Ltd.

EUT : Magic Mirror Appliance

Model Number : MMA21-4-A

FCC ID : 2BTT6-MMA21-4-A

Report No. : CTA25111301803

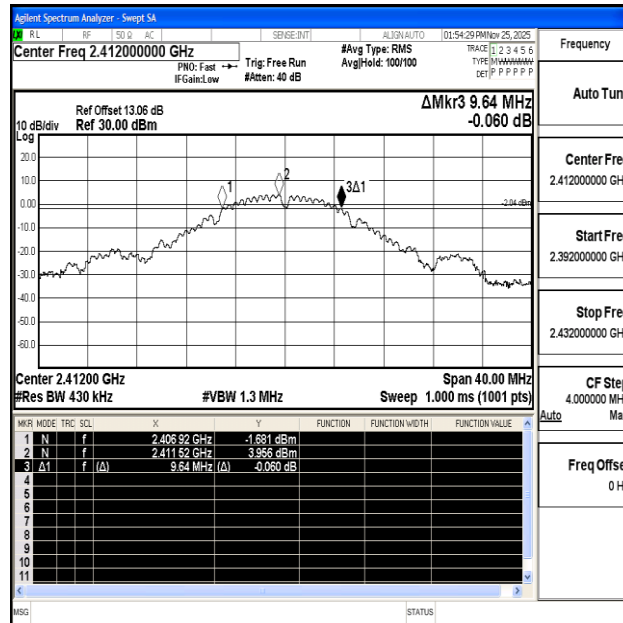
Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

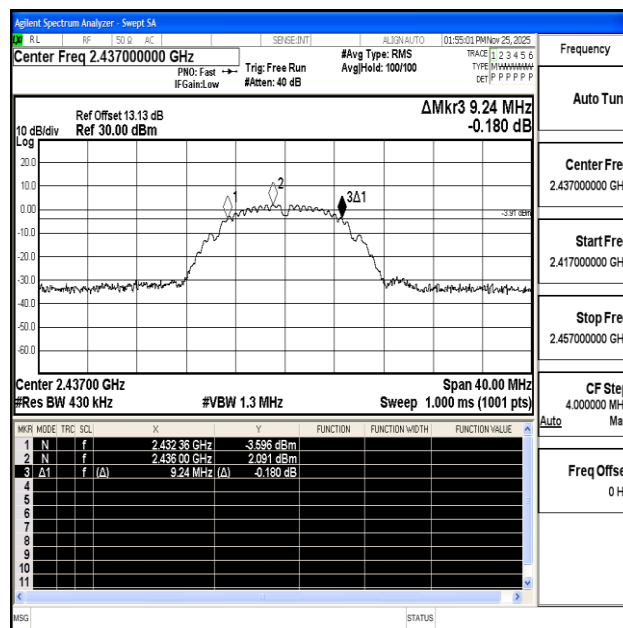
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.640	2406.920	2416.560	0.5	PASS
11B	Ant1	2437	9.240	2432.360	2441.600	0.5	PASS
11B	Ant1	2462	9.680	2457.360	2467.040	0.5	PASS
11G	Ant1	2412	15.480	2404.320	2419.800	0.5	PASS
11G	Ant1	2437	16.360	2428.840	2445.200	0.5	PASS
11G	Ant1	2462	16.200	2453.840	2470.040	0.5	PASS
11N20SISO	Ant1	2412	16.920	2403.480	2420.400	0.5	PASS
11N20SISO	Ant1	2437	17.480	2428.200	2445.680	0.5	PASS
11N20SISO	Ant1	2462	17.040	2453.480	2470.520	0.5	PASS
11AX20SISO	Ant1	2412	36.080	2404.000	2440.080	0.5	PASS
11AX20SISO	Ant1	2437	33.920	2419.800	2453.720	0.5	PASS
11AX20SISO	Ant1	2462	34.160	2434.240	2468.400	0.5	PASS

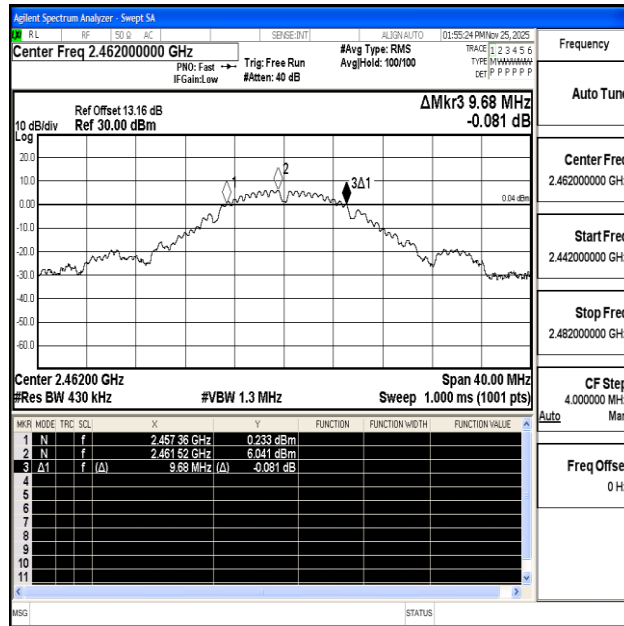
Test Graphs



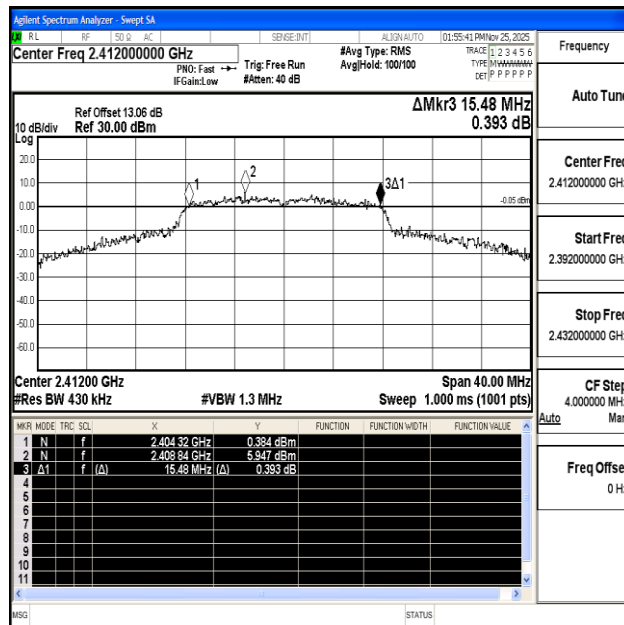
11B-Ant1-2412-PASS



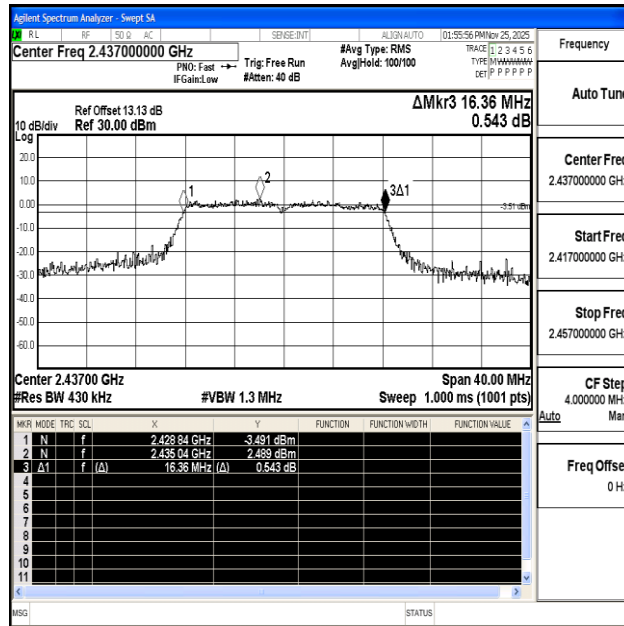
11B-Ant1-2437-PASS



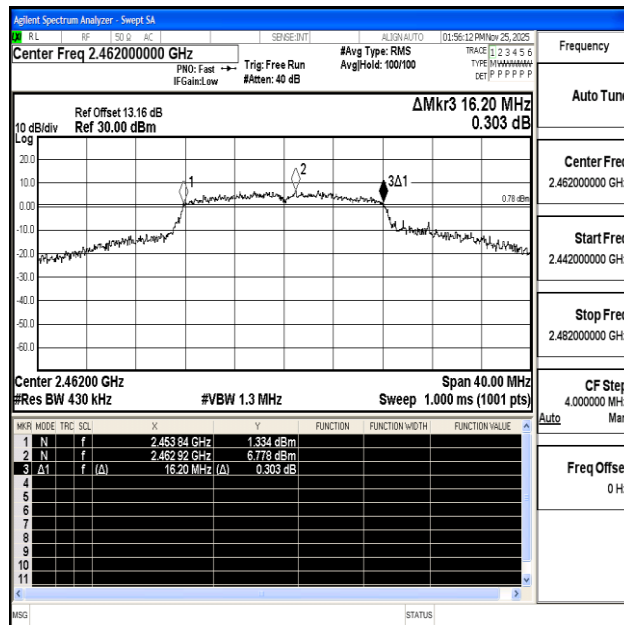
11B-Ant1-2462-PASS



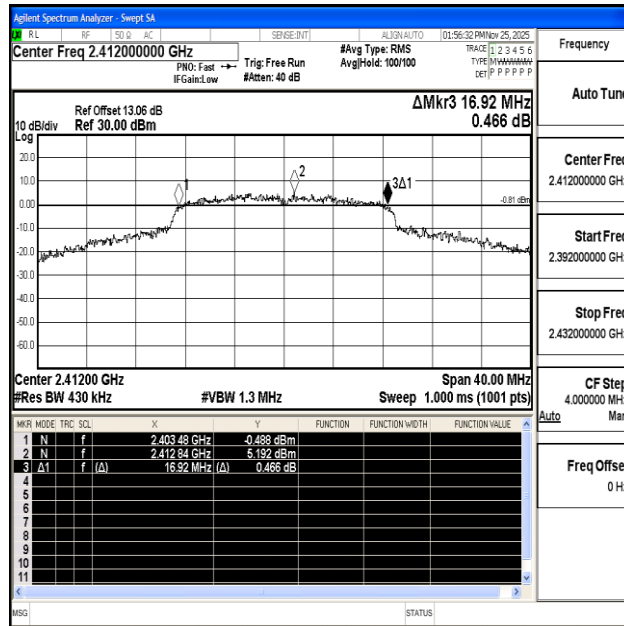
11G-Ant1-2412-PASS



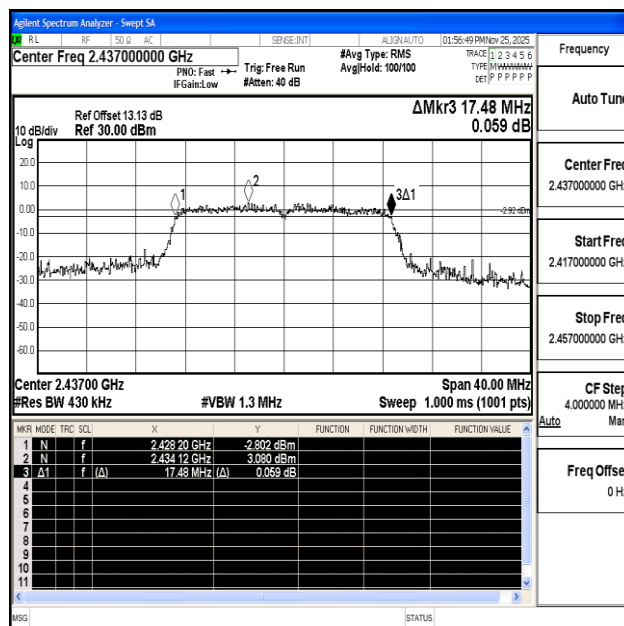
11G-Ant1-2437-PASS



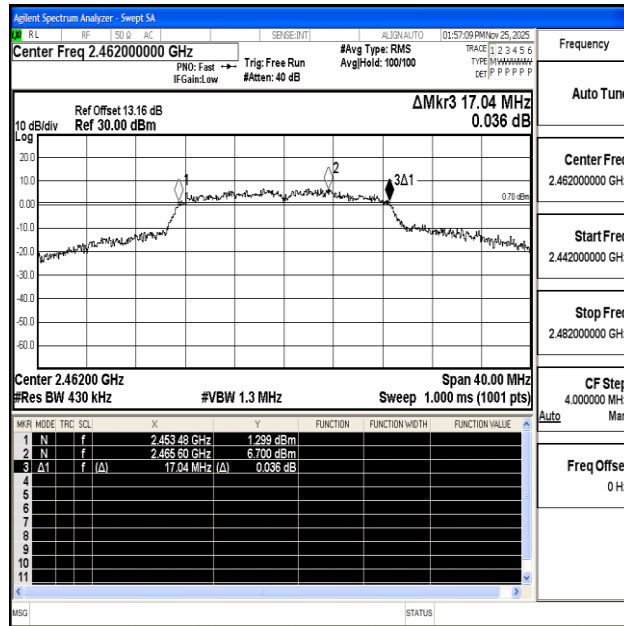
11G-Ant1-2462-PASS



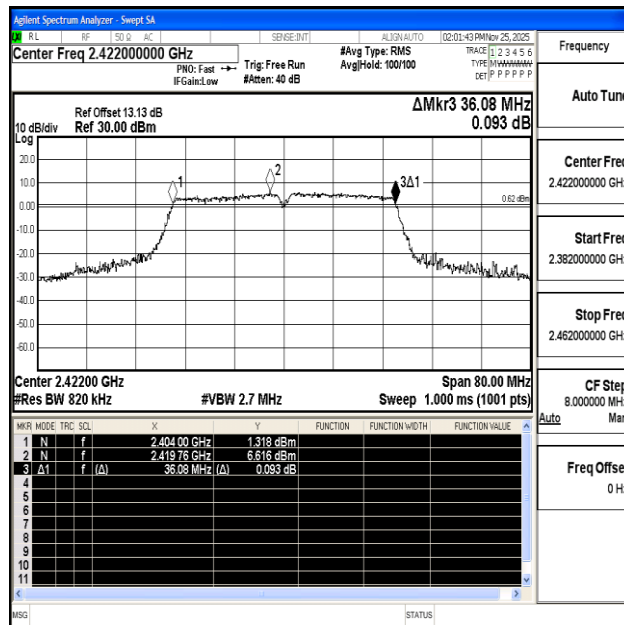
11N20SISO-Ant1-2412-PASS



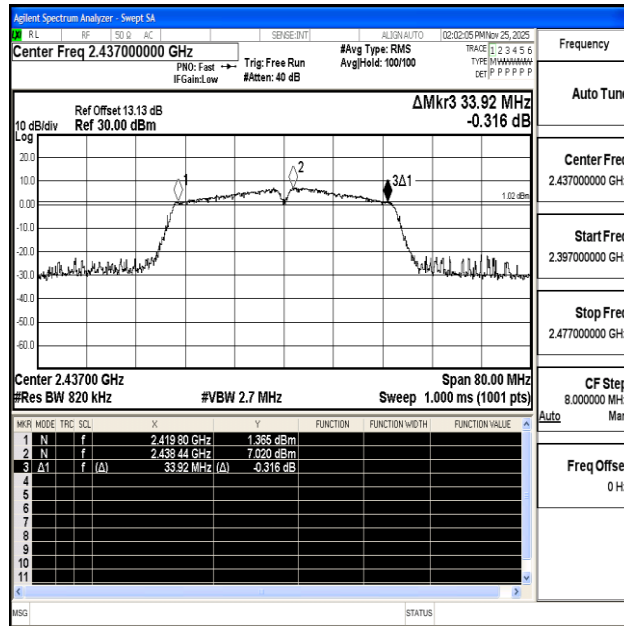
11N20SISO-Ant1-2437-PASS



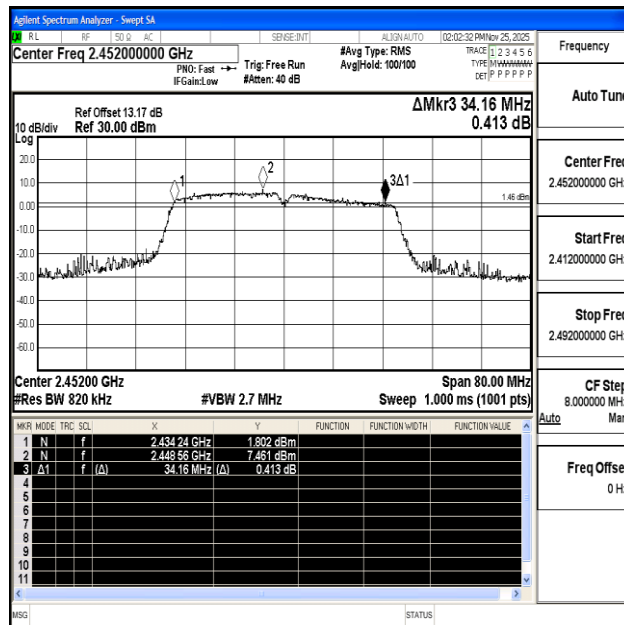
11N20SISO-Ant1-2462-PASS



11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2437-PASS



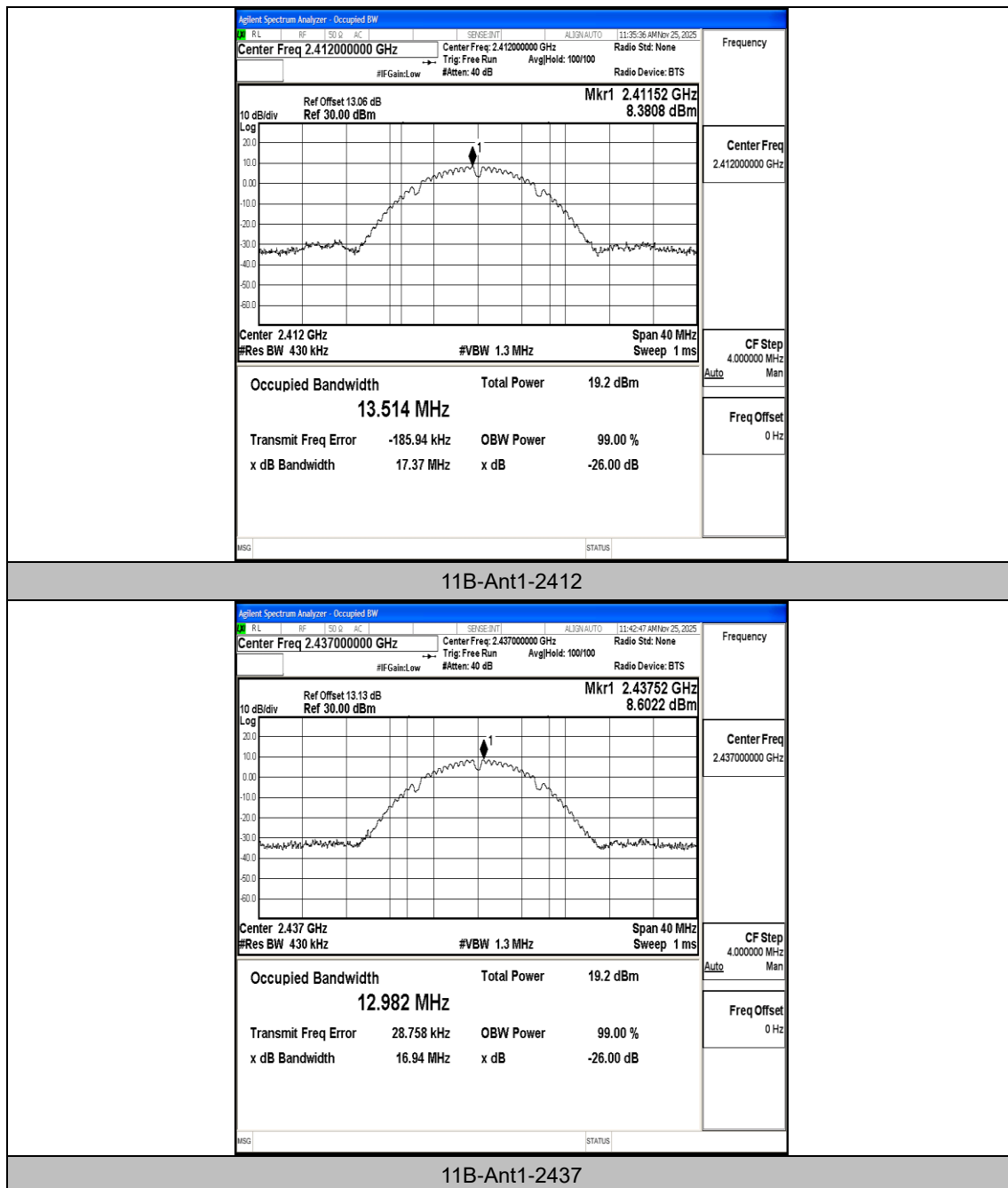
11AX20SISO-Ant1-2462-PASS

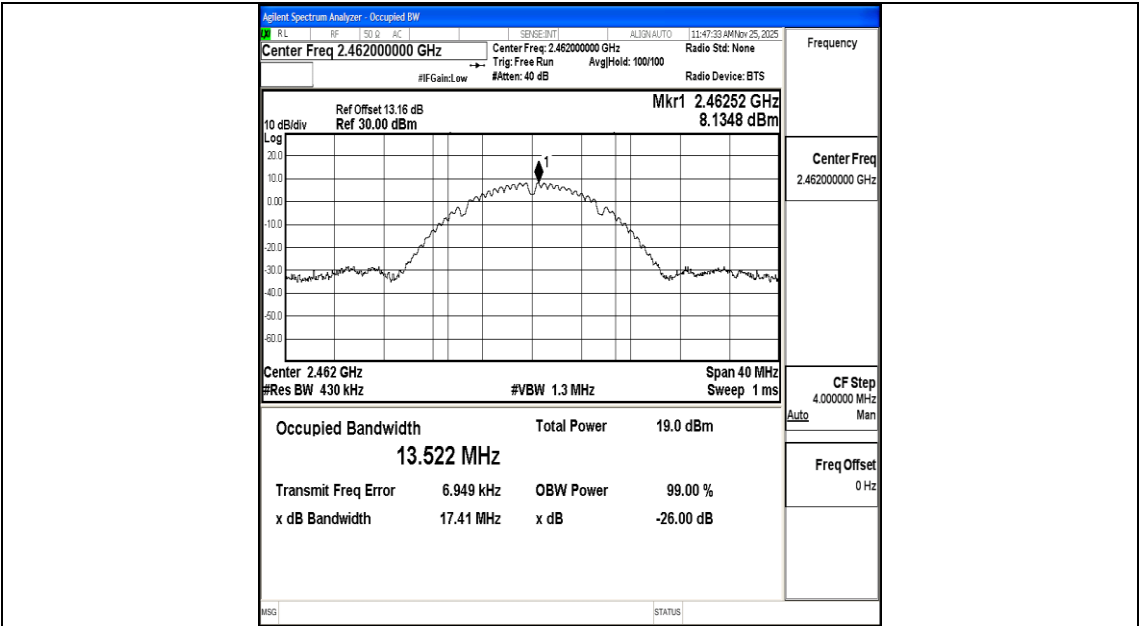
Appendix B: Occupied Channel Bandwidth

Test Result

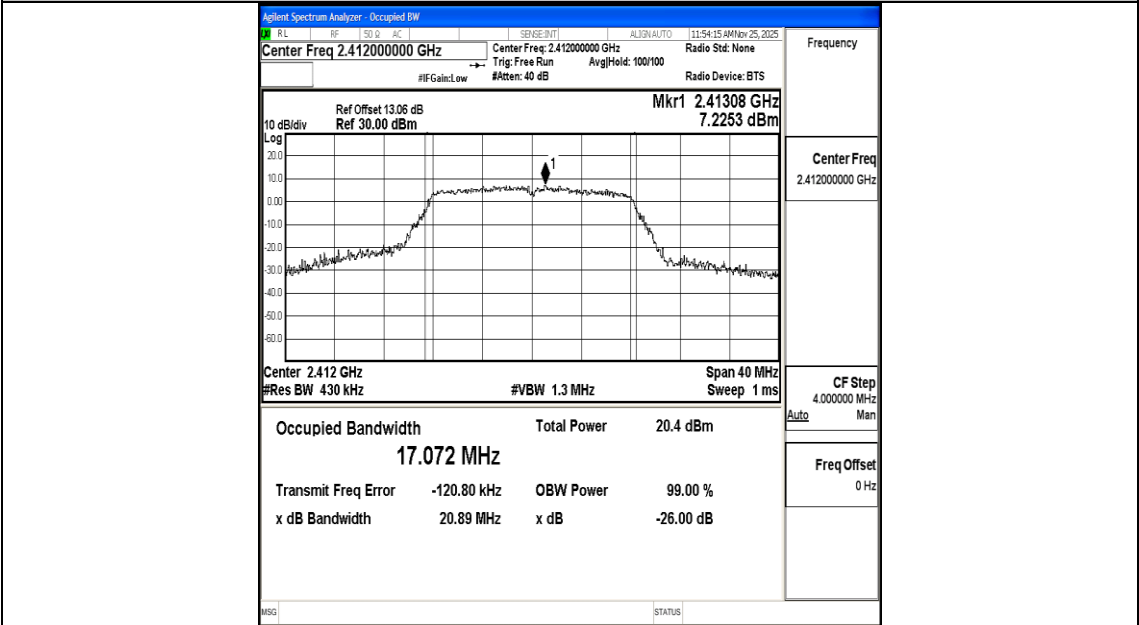
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.514	2405.0571	2418.5711	---	---
11B	Ant1	2437	12.982	2430.5378	2443.5198	---	---
11B	Ant1	2462	13.522	2455.2460	2468.7680	---	---
11G	Ant1	2412	17.072	2403.3432	2420.4152	---	---
11G	Ant1	2437	16.713	2428.7149	2445.4279	---	---
11G	Ant1	2462	17.081	2453.4649	2470.5459	---	---
11N20SISO	Ant1	2412	18.012	2402.9436	2420.9556	---	---
11N20SISO	Ant1	2437	17.808	2428.1018	2445.9098	---	---
11N20SISO	Ant1	2462	18.070	2452.9774	2471.0474	---	---
11AX20SISO	Ant1	2412	17.978	2402.9288	2420.9068	---	---
11AX20SISO	Ant1	2437	17.738	2428.1061	2445.8441	---	---
11AX20SISO	Ant1	2462	18.101	2452.9500	2471.0510	---	---

Test Graphs

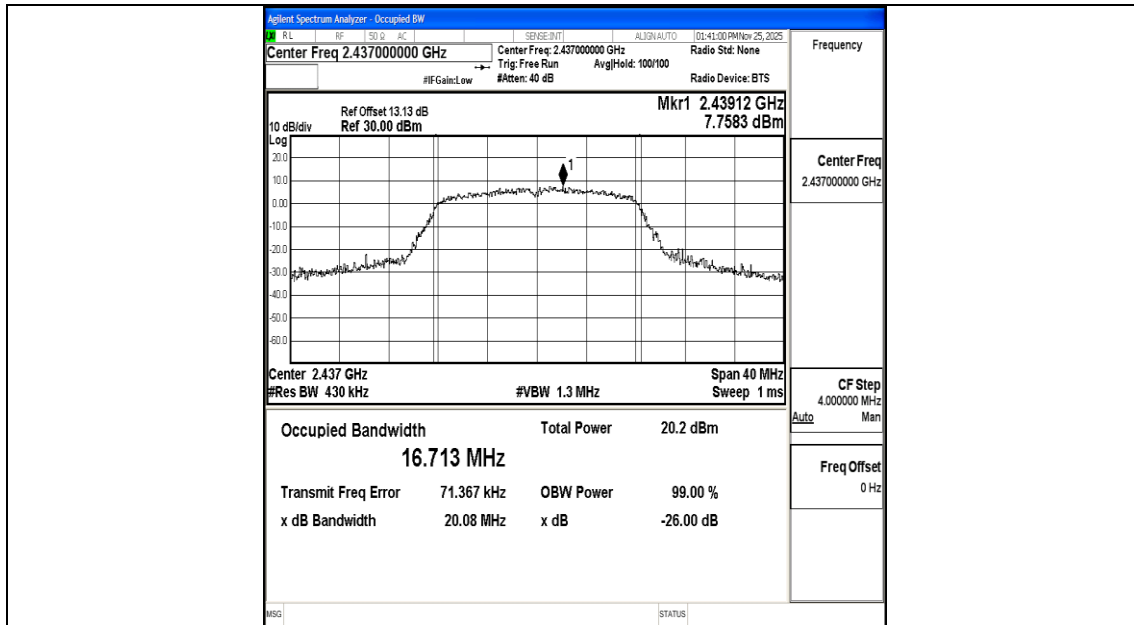




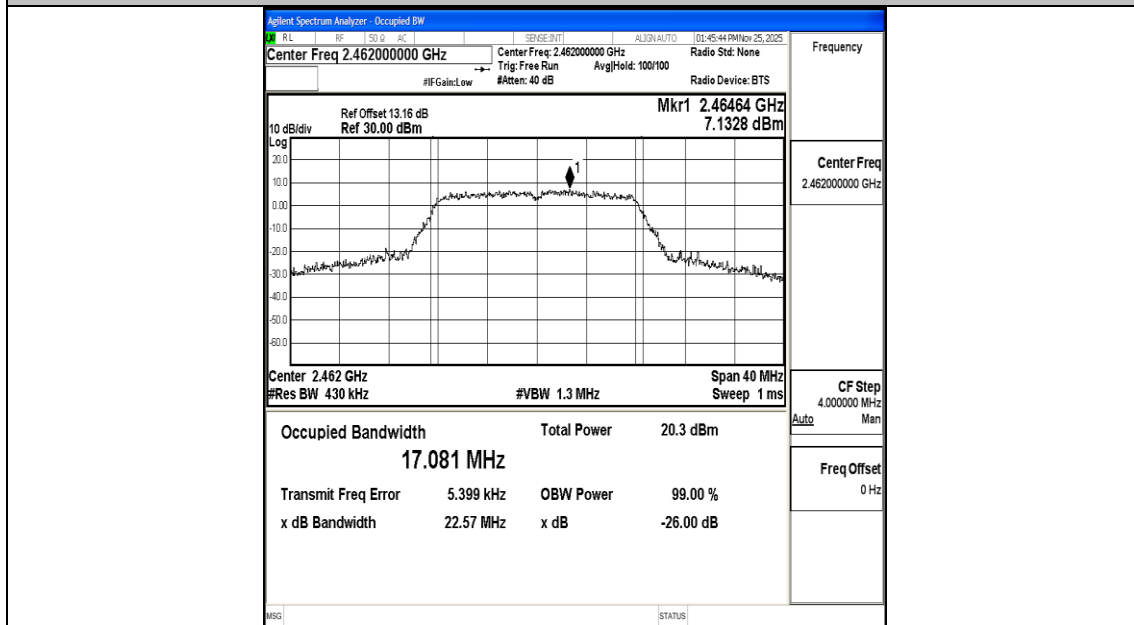
11B-Ant1-2462



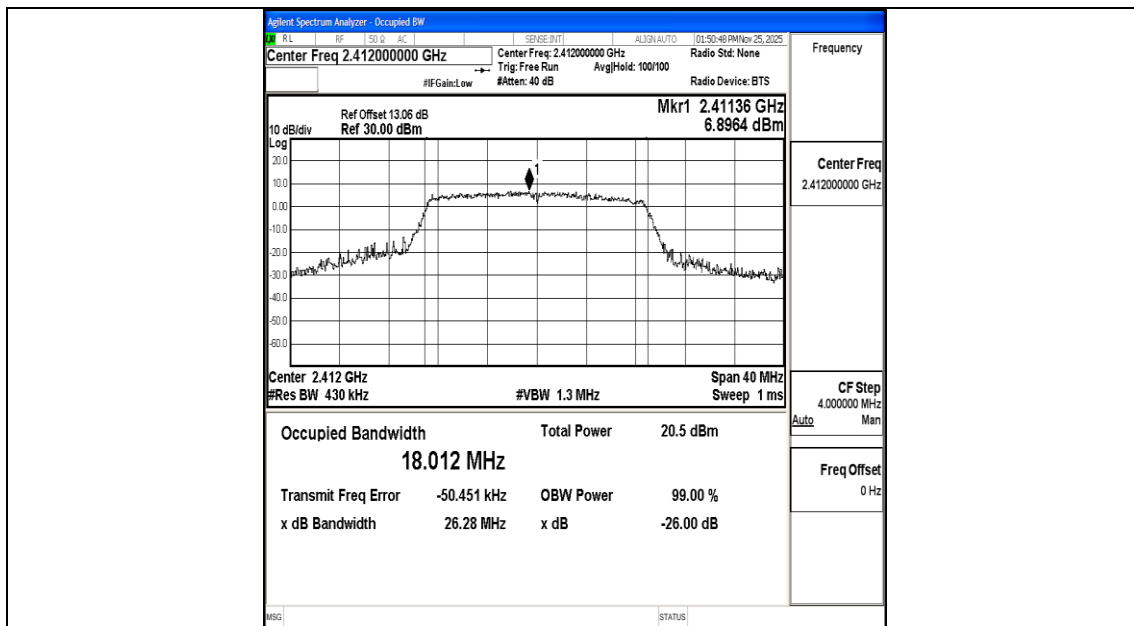
11G-Ant1-2412



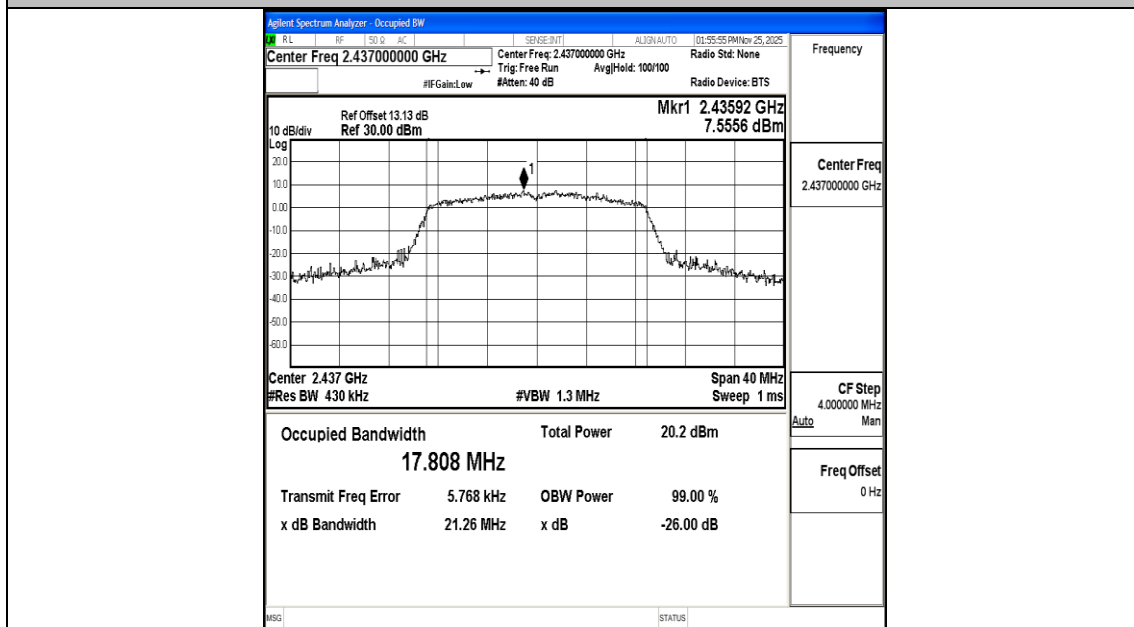
11G-Ant1-2437



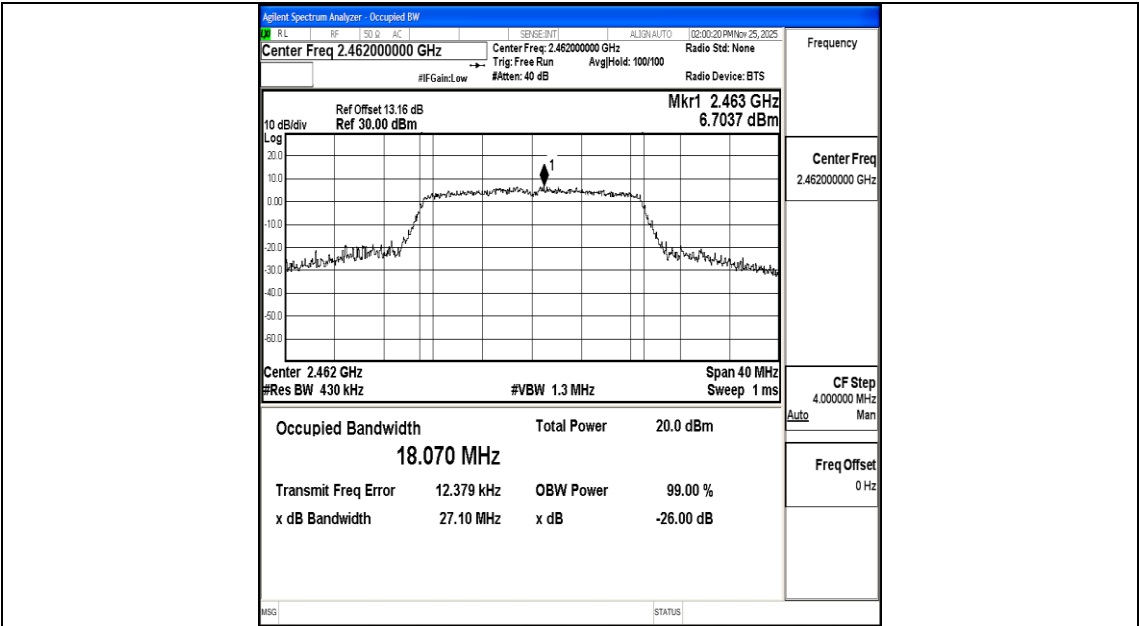
11G-Ant1-2462



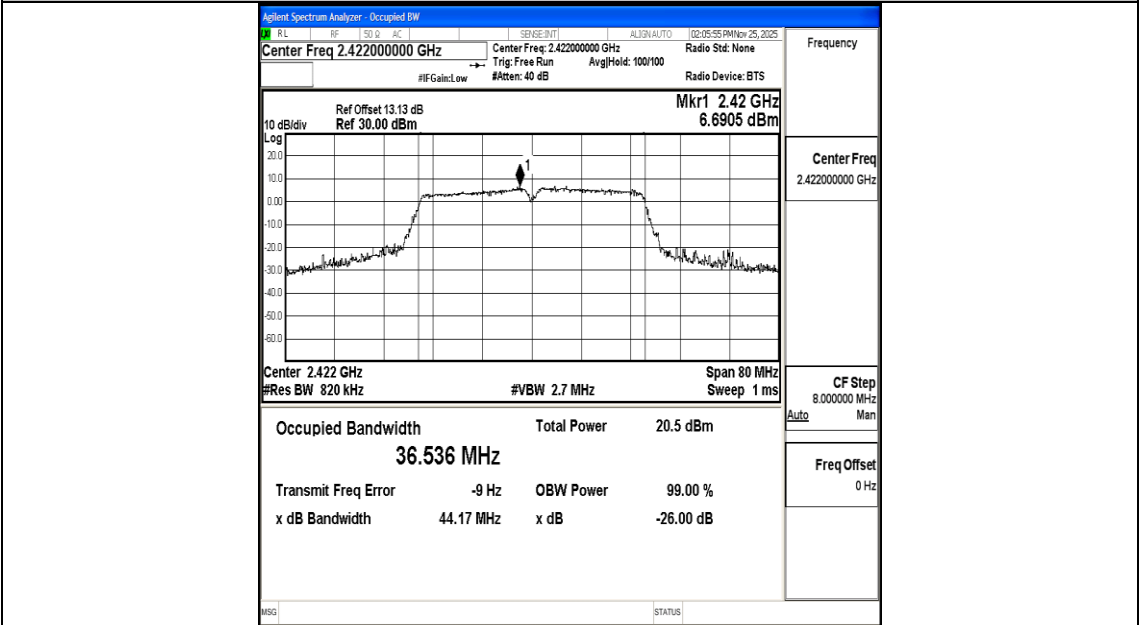
11N20SISO-Ant1-2412



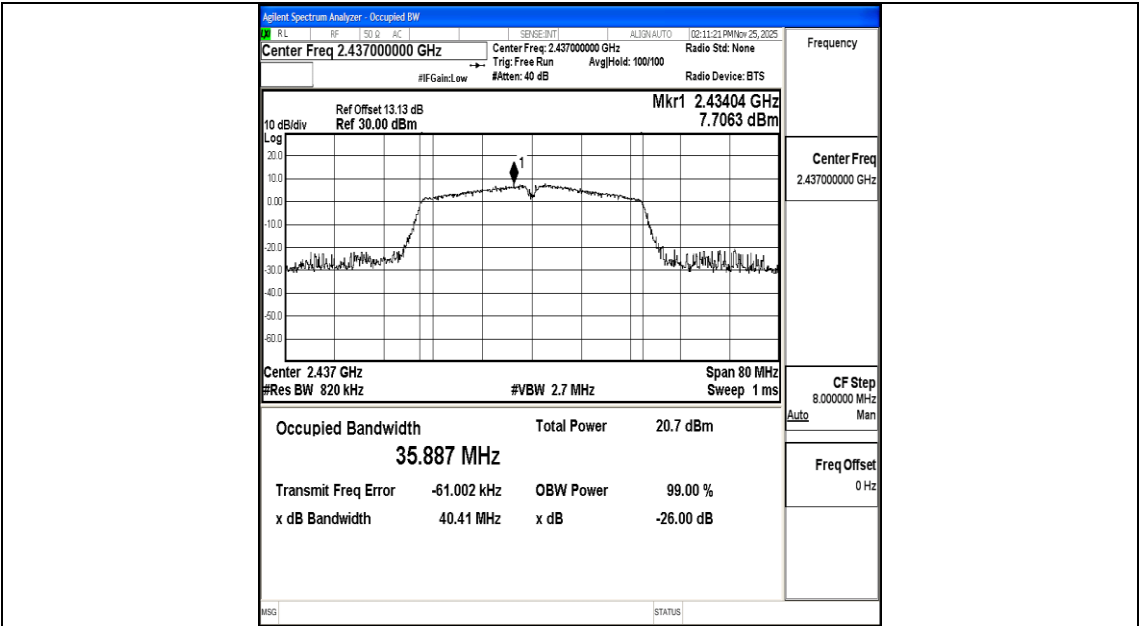
11N20SISO-Ant1-2437



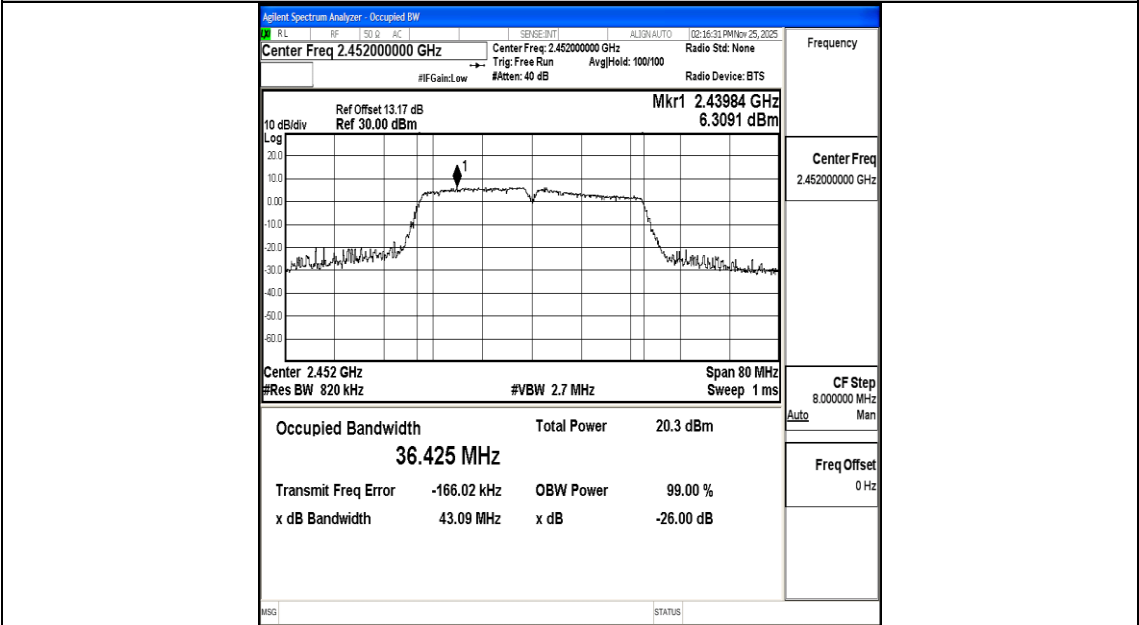
11N20SISO-Ant1-2462



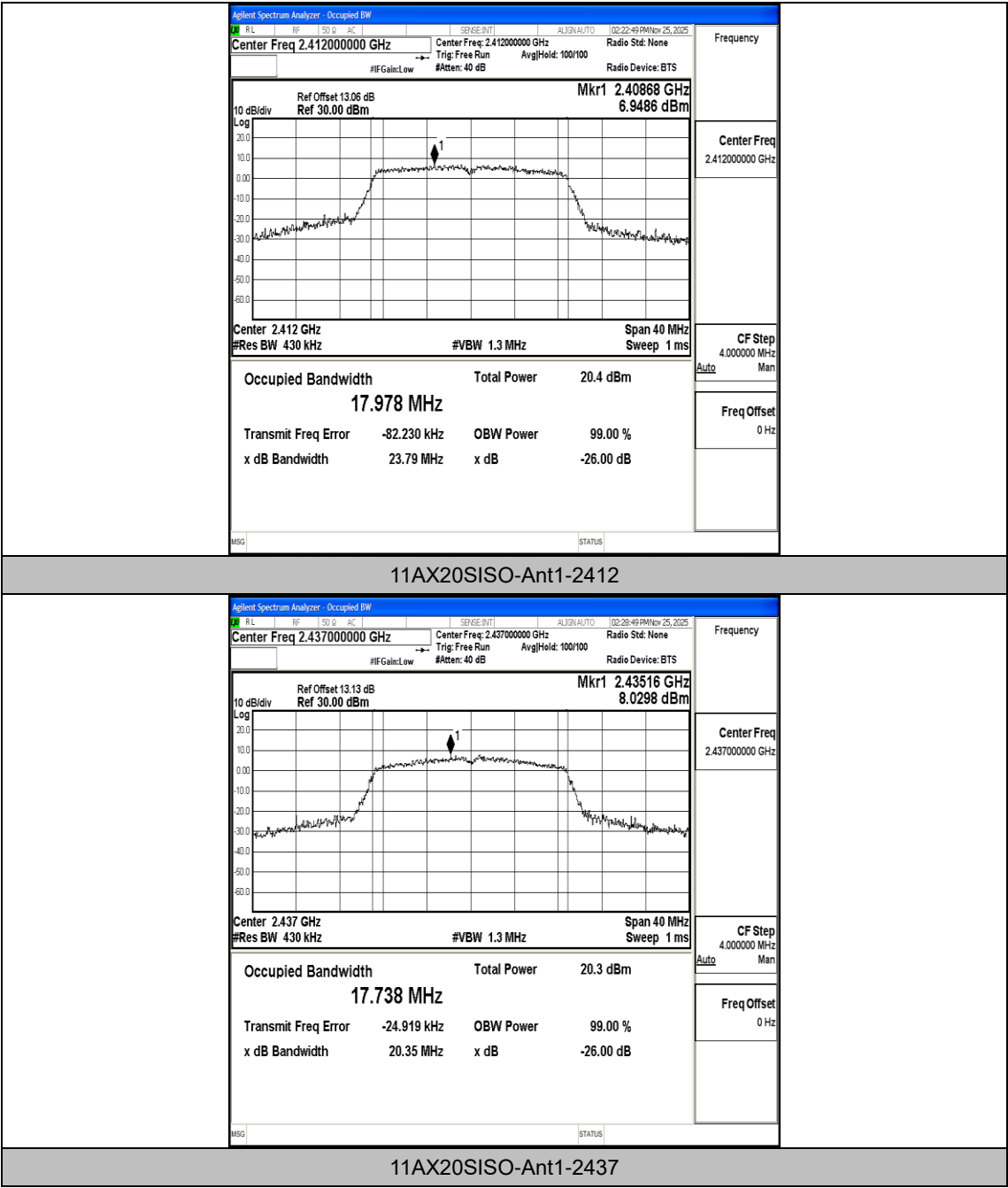
11N40SISO-Ant1-2422



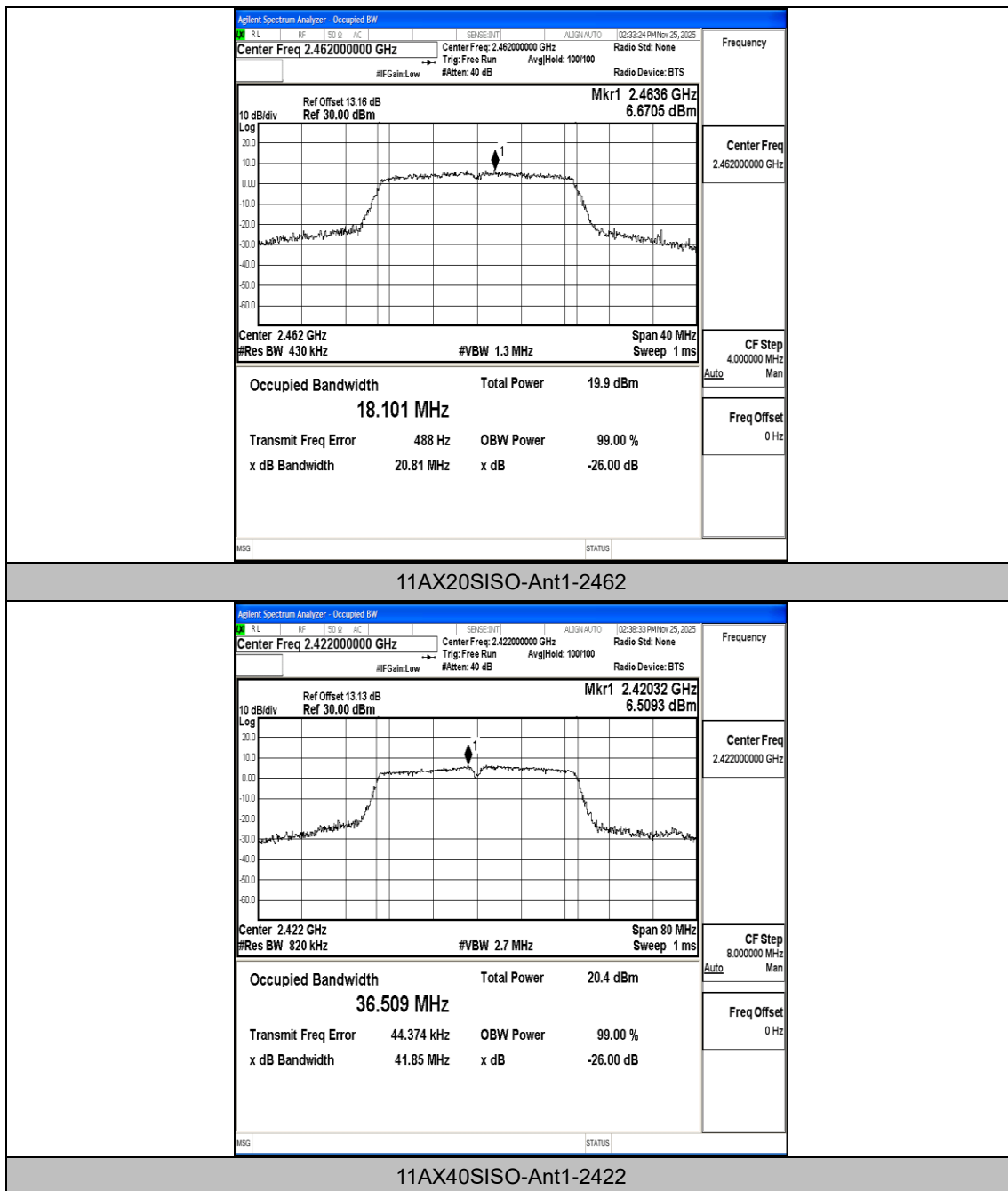
11N40SISO-Ant1-2437

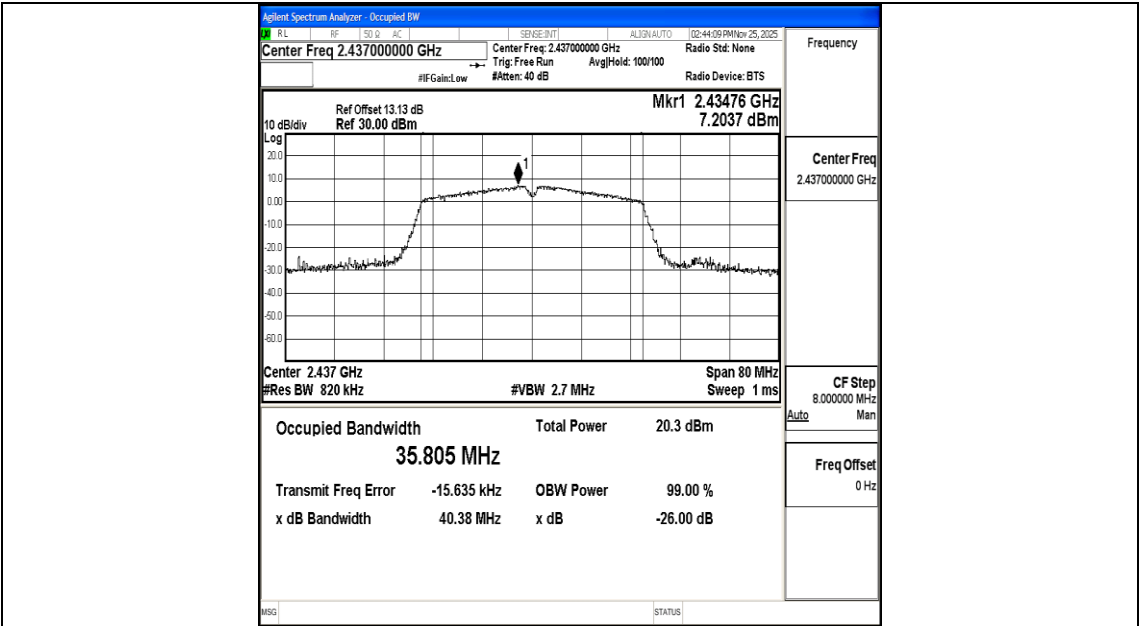


11N40SISO-Ant1-2452

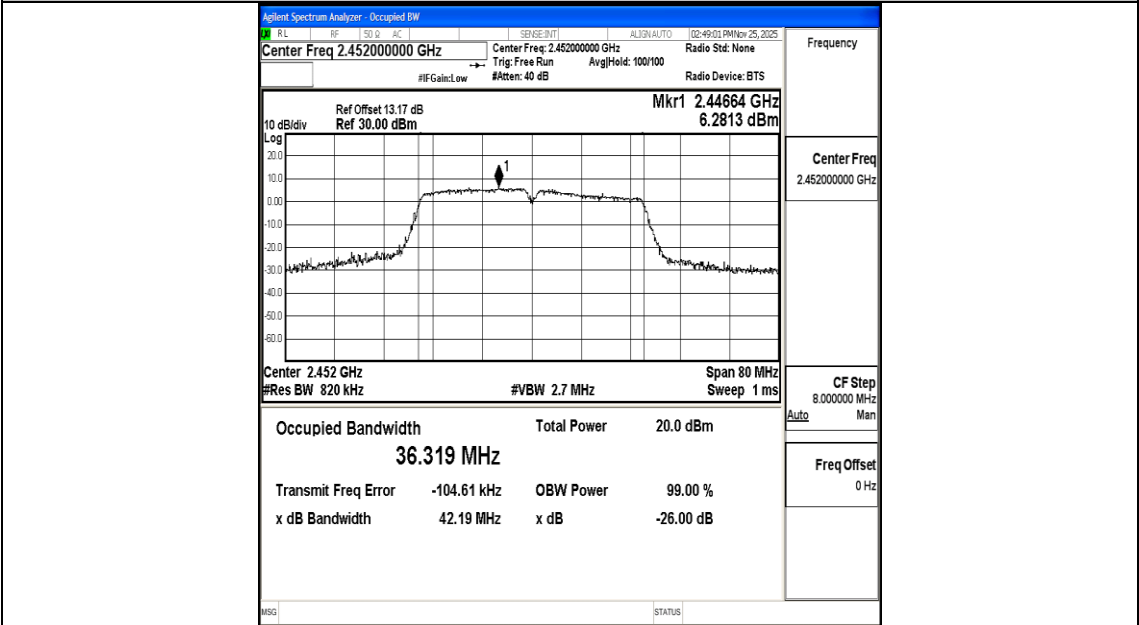


11AX20SISO-Ant1-2437





11AX40SISO-Ant1-2437



11AX40SISO-Ant1-2452

Appendix C: Maximum conducted output power

Test Result Peak

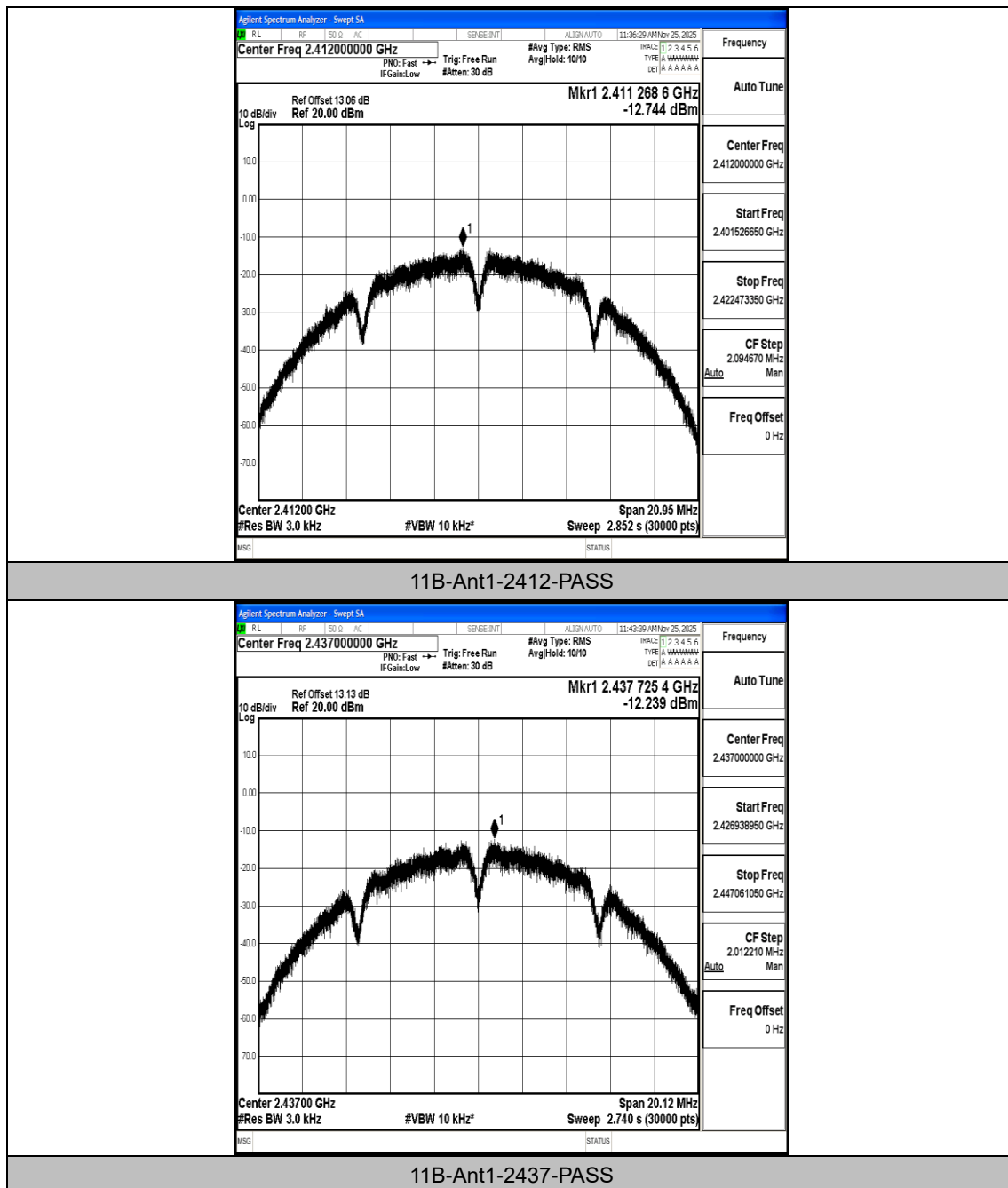
TestMode	Antenna	Frequency [MHz]	Average Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	16.30	≤30.00	PASS
11B	Ant1	2437	16.57	≤30.00	PASS
11B	Ant1	2462	16.46	≤30.00	PASS
11G	Ant1	2412	14.95	≤30.00	PASS
11G	Ant1	2437	15.12	≤30.00	PASS
11G	Ant1	2462	14.88	≤30.00	PASS
11N20SISO	Ant1	2412	14.79	≤30.00	PASS
11N20SISO	Ant1	2437	15.23	≤30.00	PASS
11N20SISO	Ant1	2462	14.84	≤30.00	PASS
11AX20SISO	Ant1	2412	14.83	≤30.00	PASS
11AX20SISO	Ant1	2437	15.27	≤30.00	PASS
11AX20SISO	Ant1	2462	14.55	≤30.00	PASS

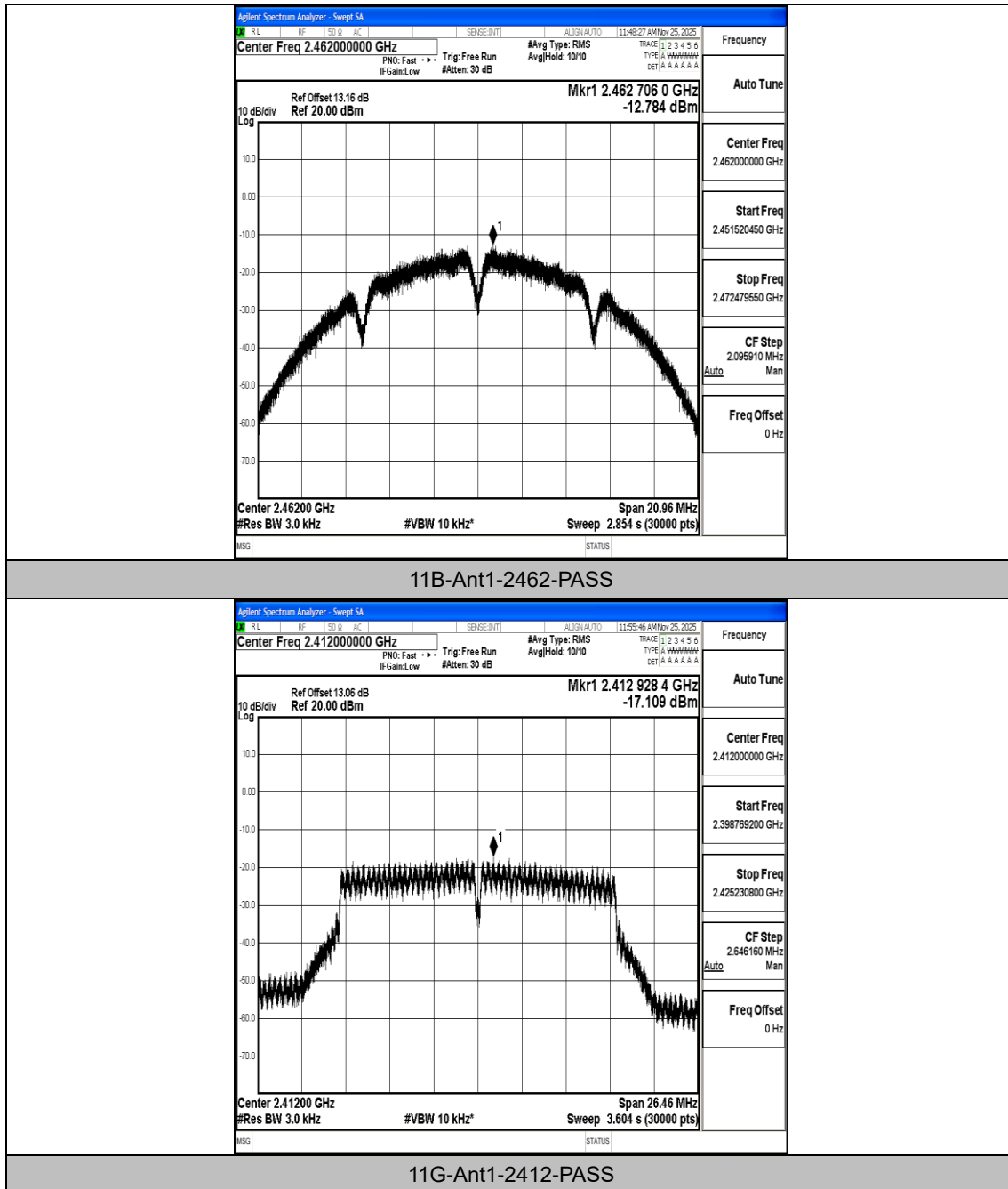
Appendix D: Maximum power spectral density

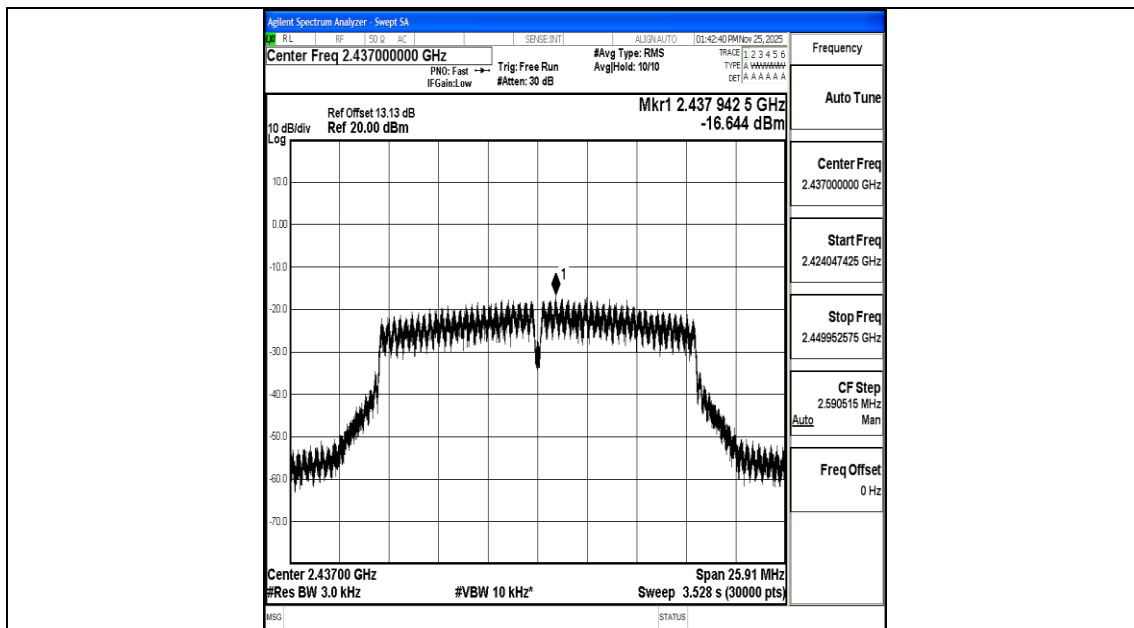
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.72	≤8.00	PASS
11B	Ant1	2437	-12.22	≤8.00	PASS
11B	Ant1	2462	-12.76	≤8.00	PASS
11G	Ant1	2412	-16.99	≤8.00	PASS
11G	Ant1	2437	-16.49	≤8.00	PASS
11G	Ant1	2462	-17.09	≤8.00	PASS
11N20SISO	Ant1	2412	-16.97	≤8.00	PASS
11N20SISO	Ant1	2437	-17.15	≤8.00	PASS
11N20SISO	Ant1	2462	-17.72	≤8.00	PASS
11AX20SISO	Ant1	2412	-17.09	≤8.00	PASS
11AX20SISO	Ant1	2437	-16.75	≤8.00	PASS
11AX20SISO	Ant1	2462	-18.22	≤8.00	PASS

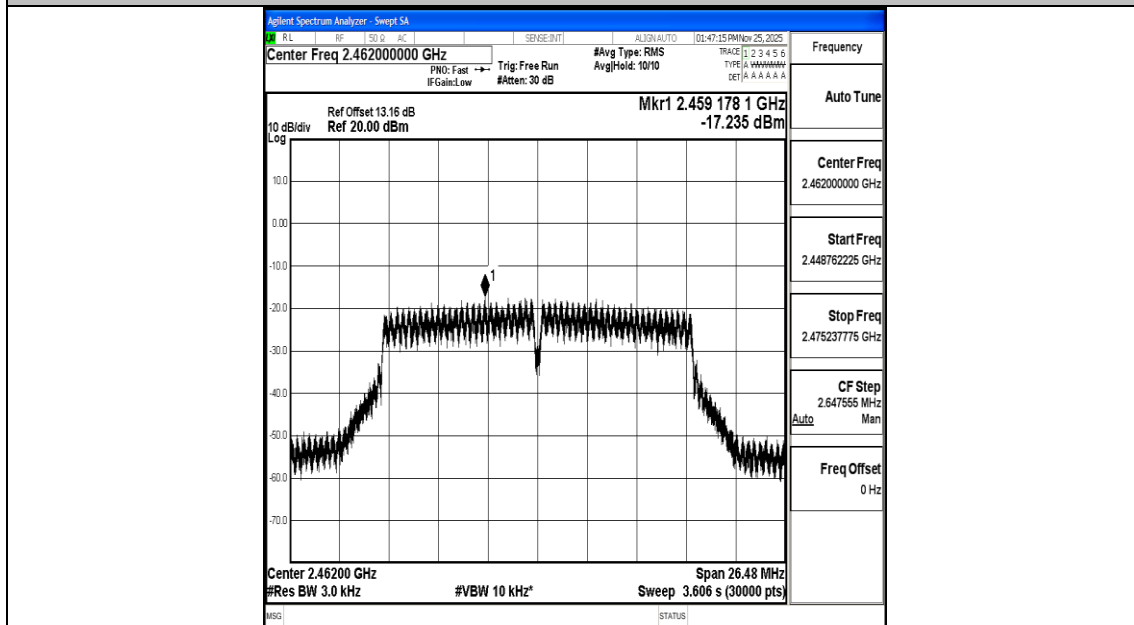
Test Graphs



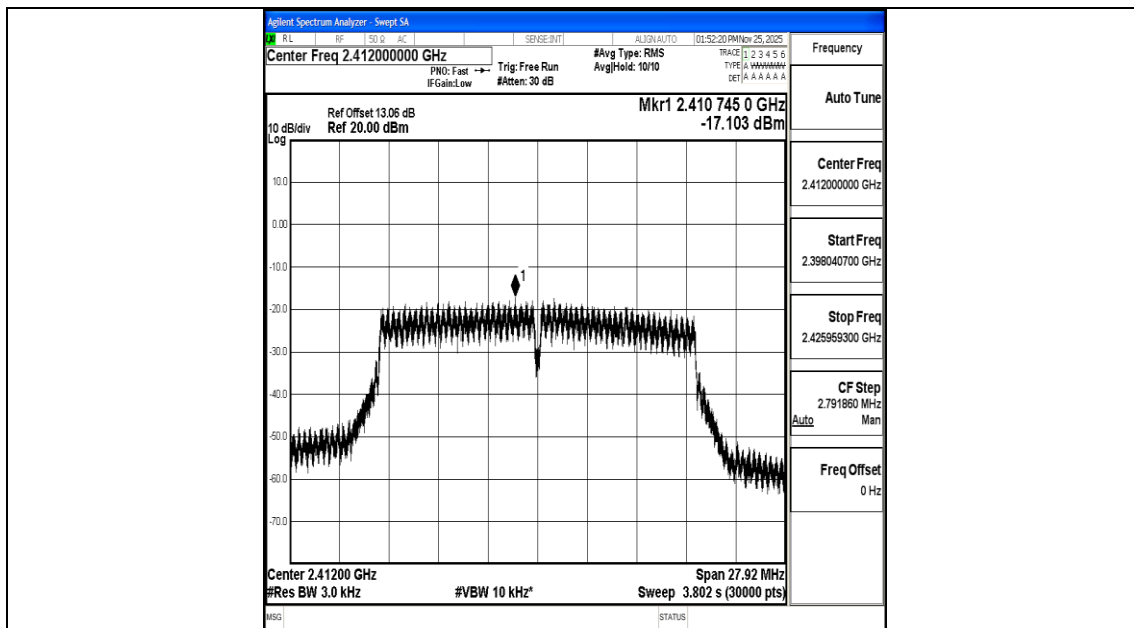




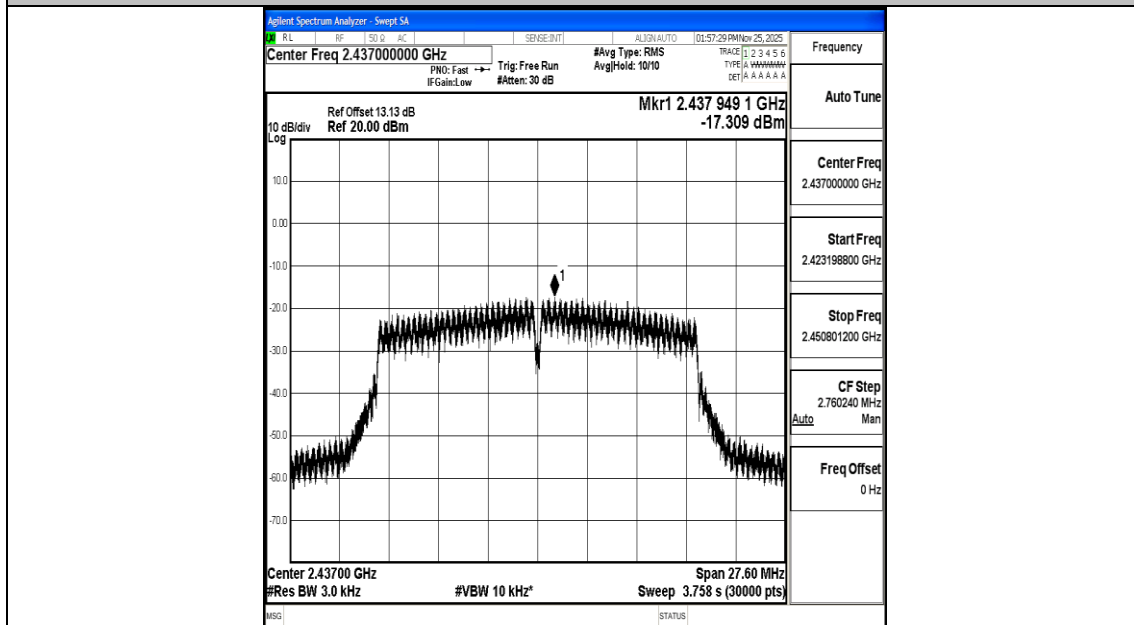
11G-Ant1-2437-PASS



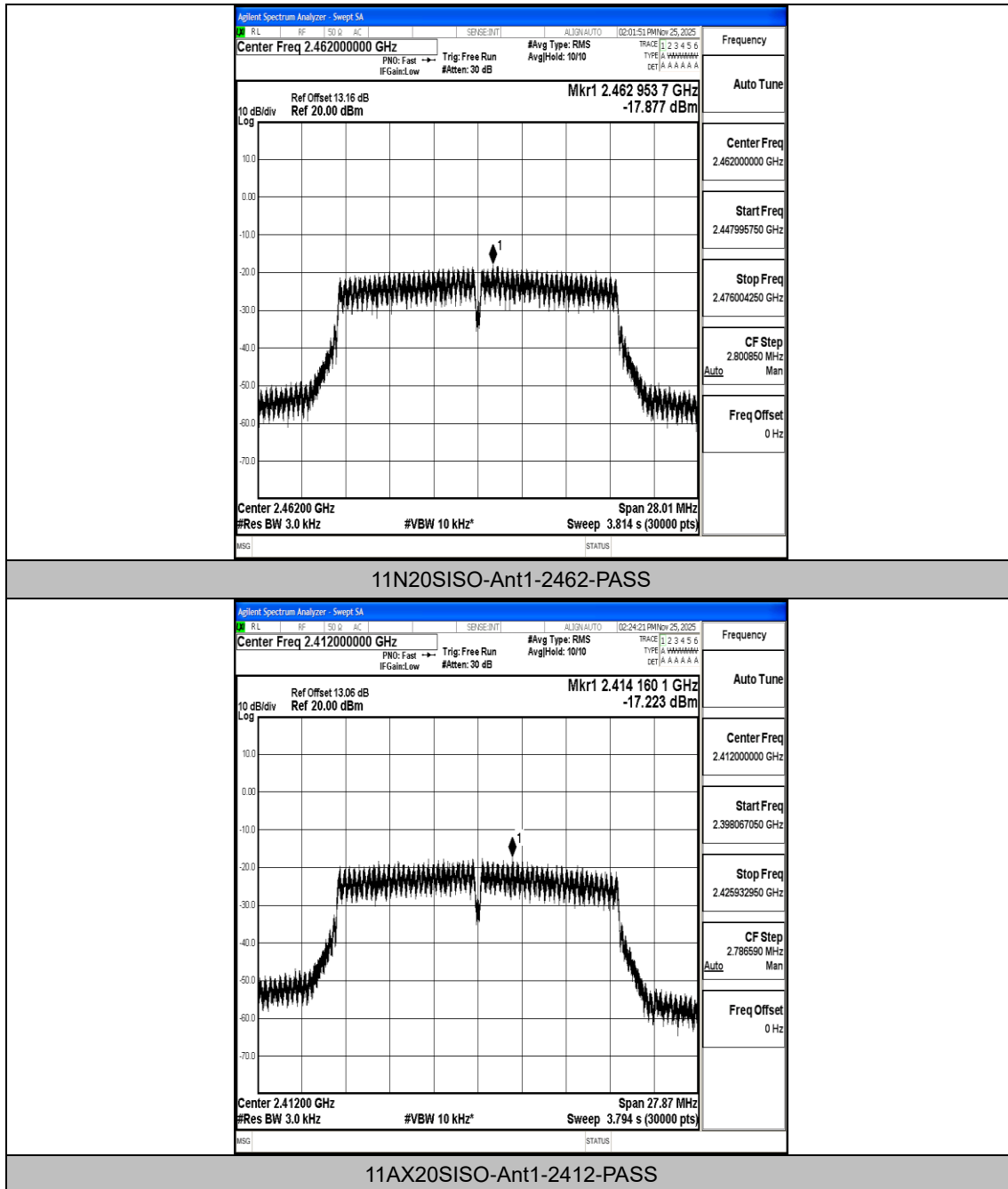
11G-Ant1-2462-PASS

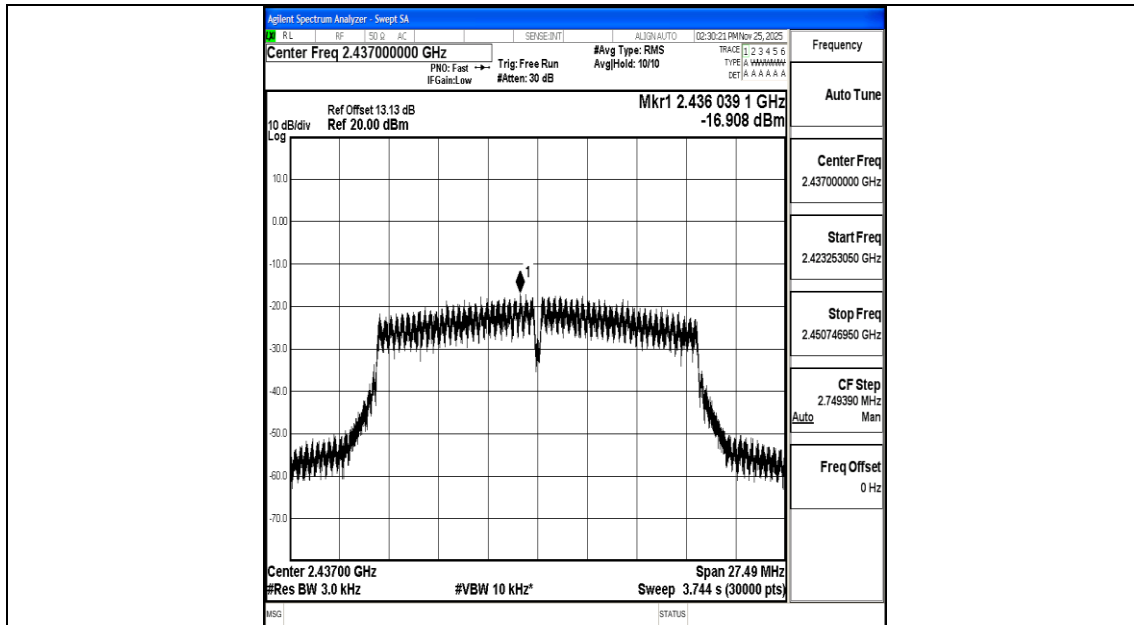


11N20SISO-Ant1-2412-PASS

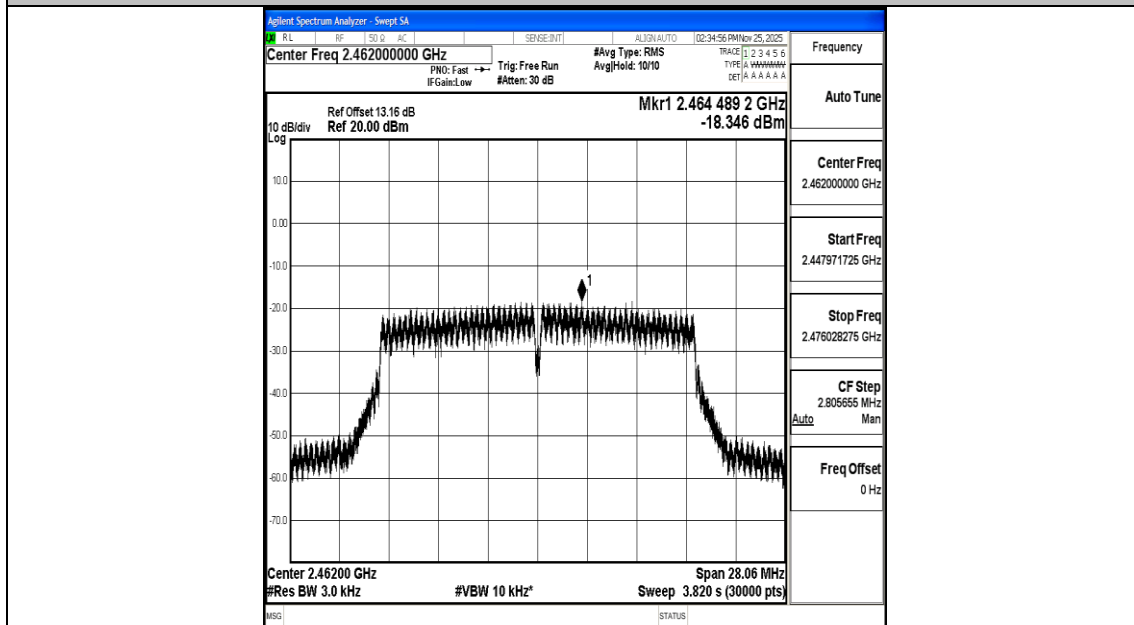


11N20SISO-Ant1-2437-PASS





11AX20SISO-Ant1-2437-PASS



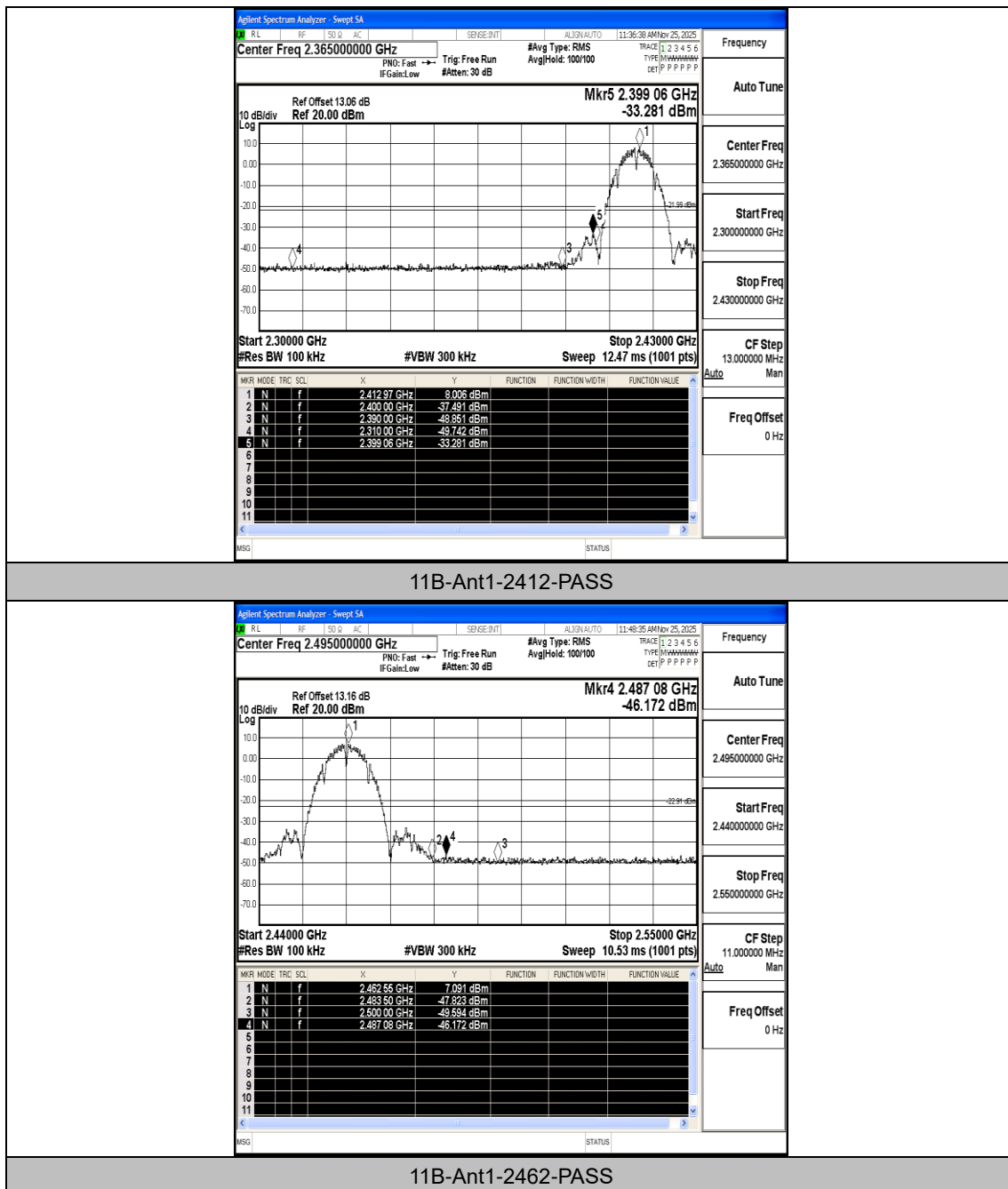
11AX20SISO-Ant1-2462-PASS

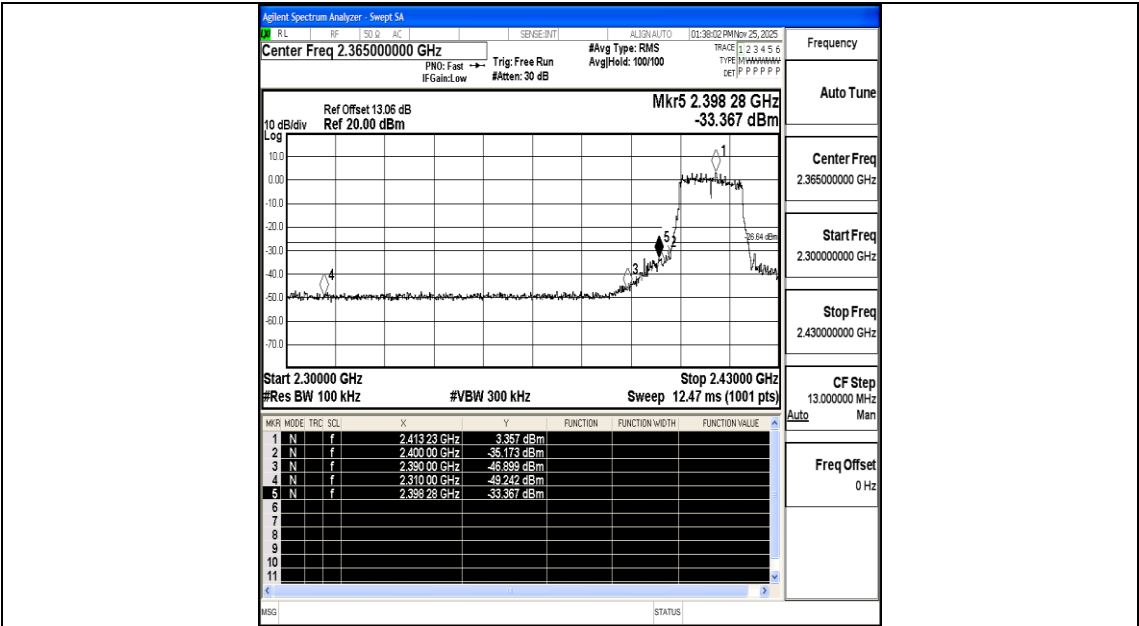
Appendix F: Band edge measurements

Test Result

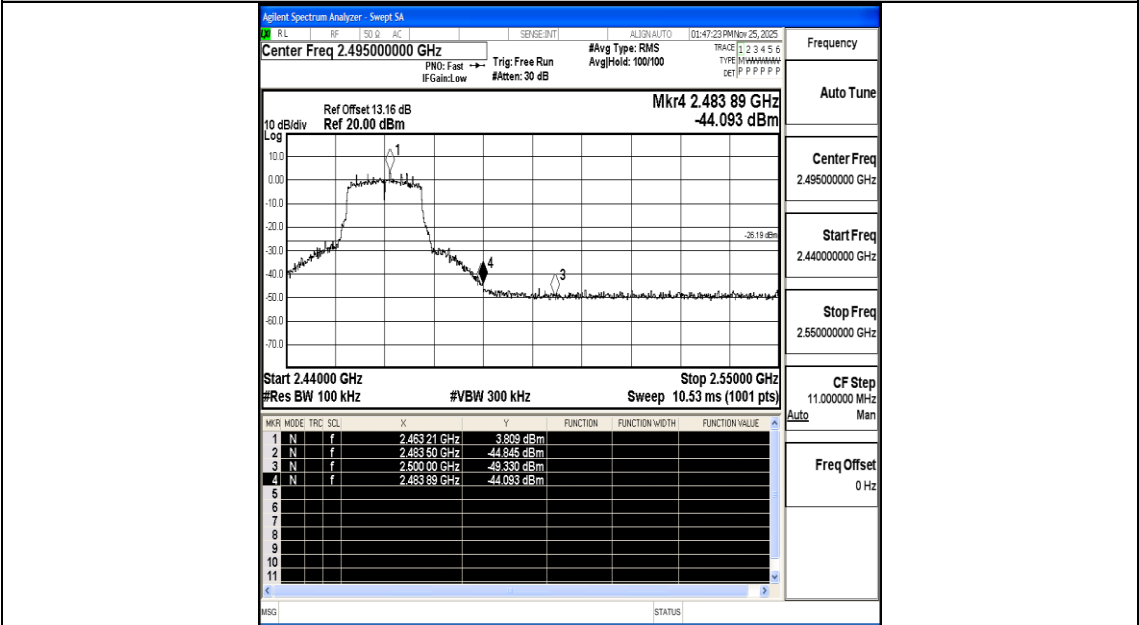
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.01	-33.28	≤-21.99	PASS
11B	Ant1	High	2462	7.09	-46.17	≤-22.91	PASS
11G	Ant1	Low	2412	3.36	-33.37	≤-26.64	PASS
11G	Ant1	High	2462	3.81	-44.09	≤-26.19	PASS
11N20SISO	Ant1	Low	2412	4.10	-26.04	≤-25.9	PASS
11N20SISO	Ant1	High	2462	3.17	-41.89	≤-26.83	PASS
11AX20SISO	Ant1	Low	2412	1.17	-38.83	≤-28.83	PASS
11AX20SISO	Ant1	High	2462	3.76	-41.36	≤-26.24	PASS

Test Graphs

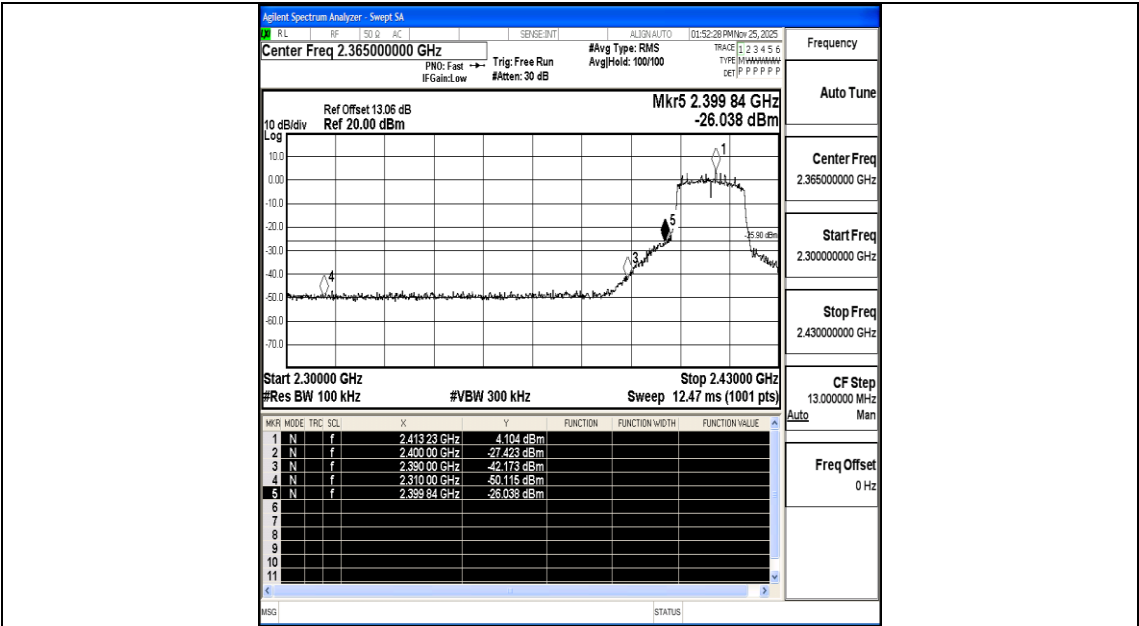




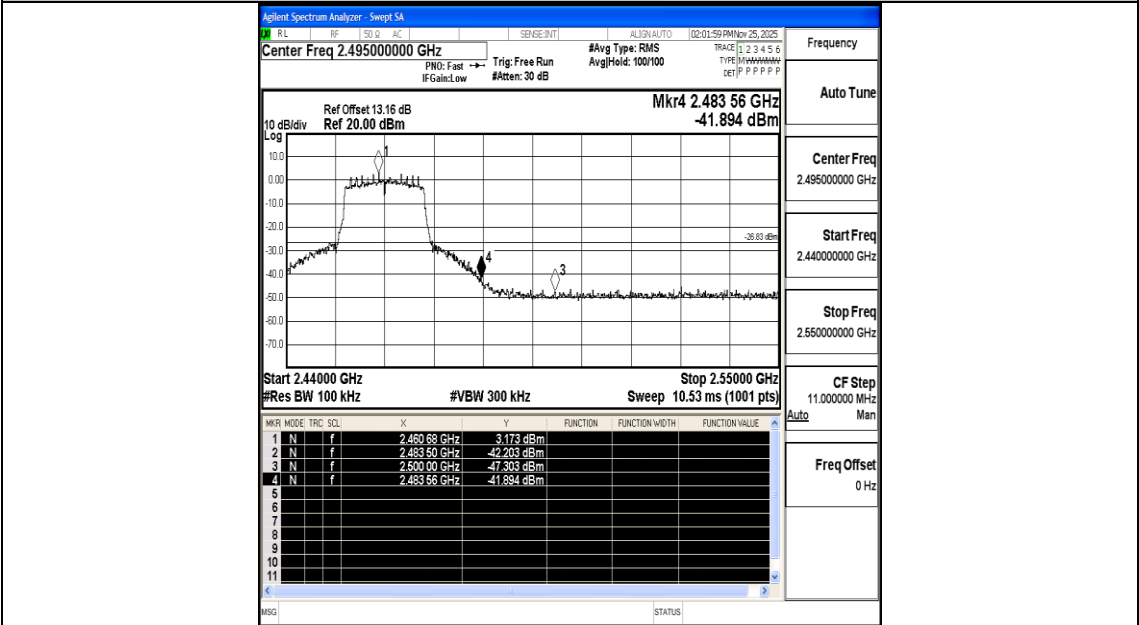
11G-Ant1-2412-PASS



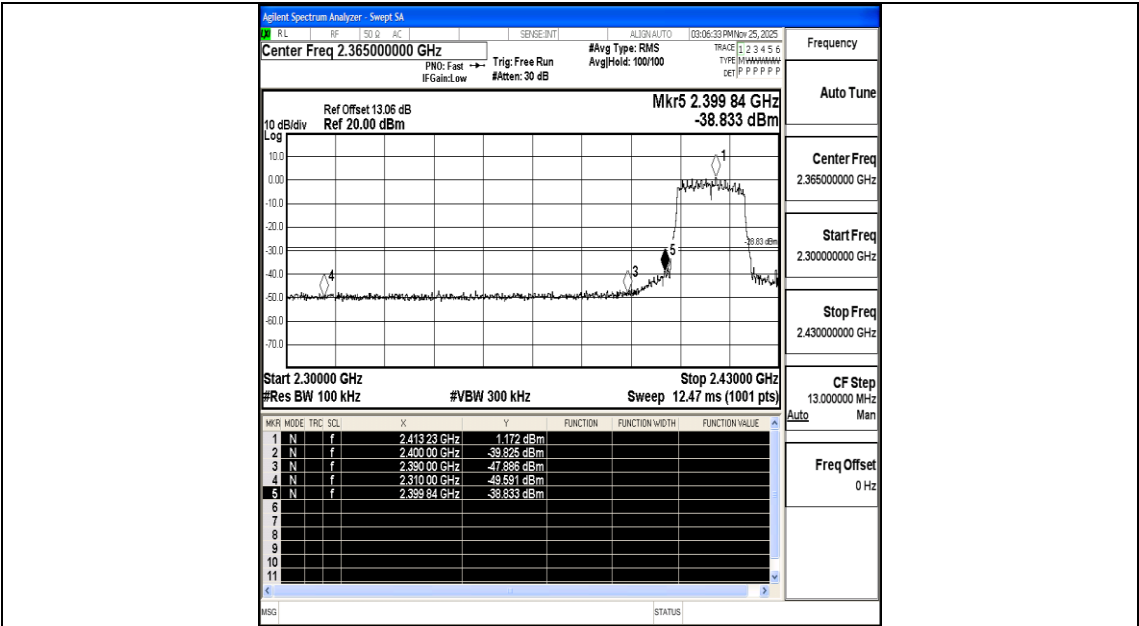
11G-Ant1-2462-PASS



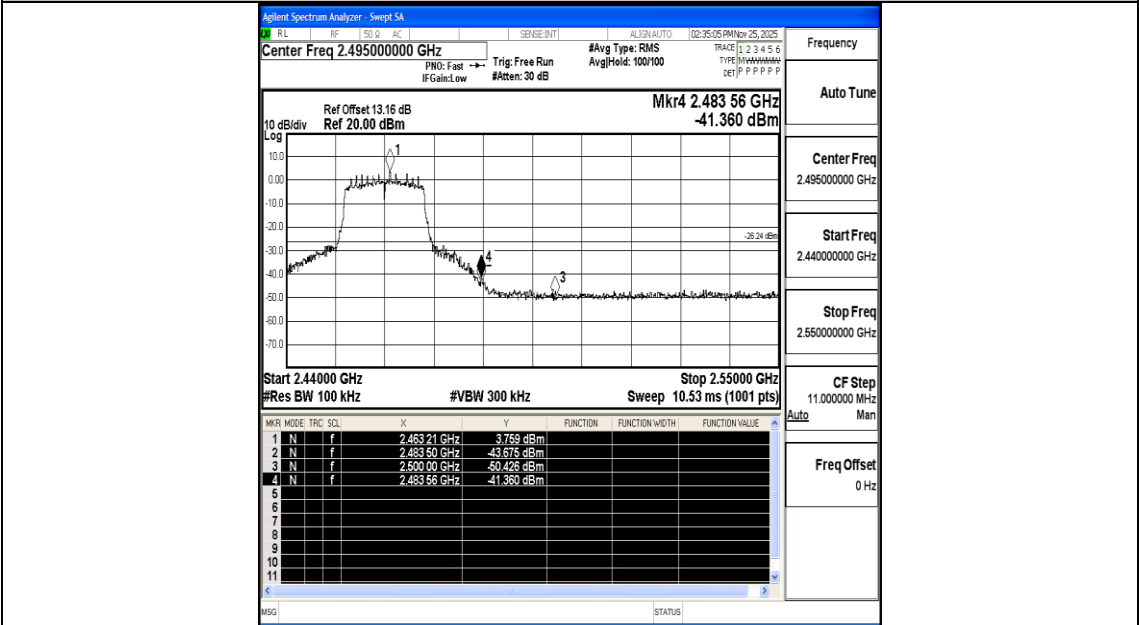
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



11AX20SISO-Ant1-2412-PASS



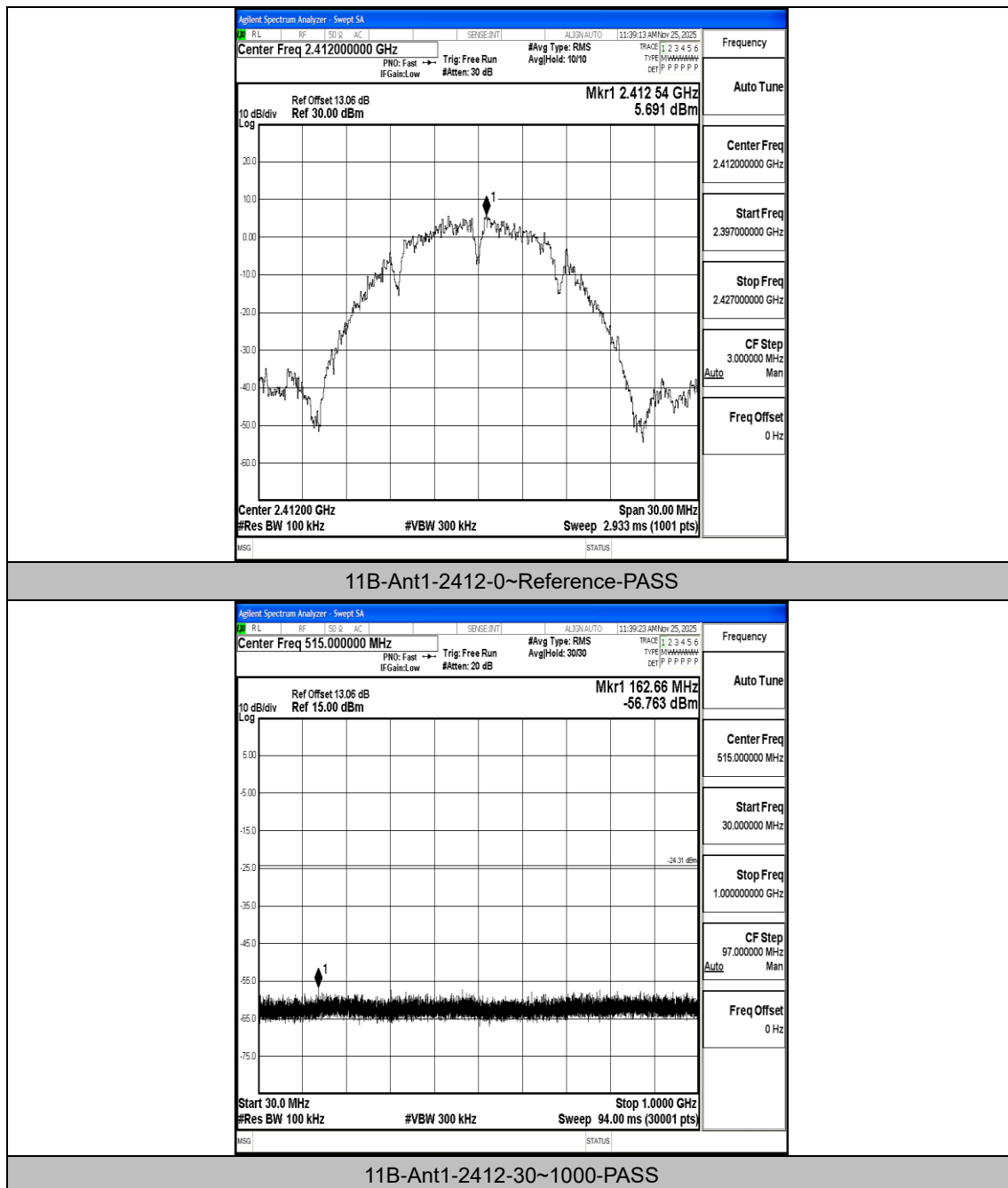
11AX20SISO-Ant1-2462-PASS

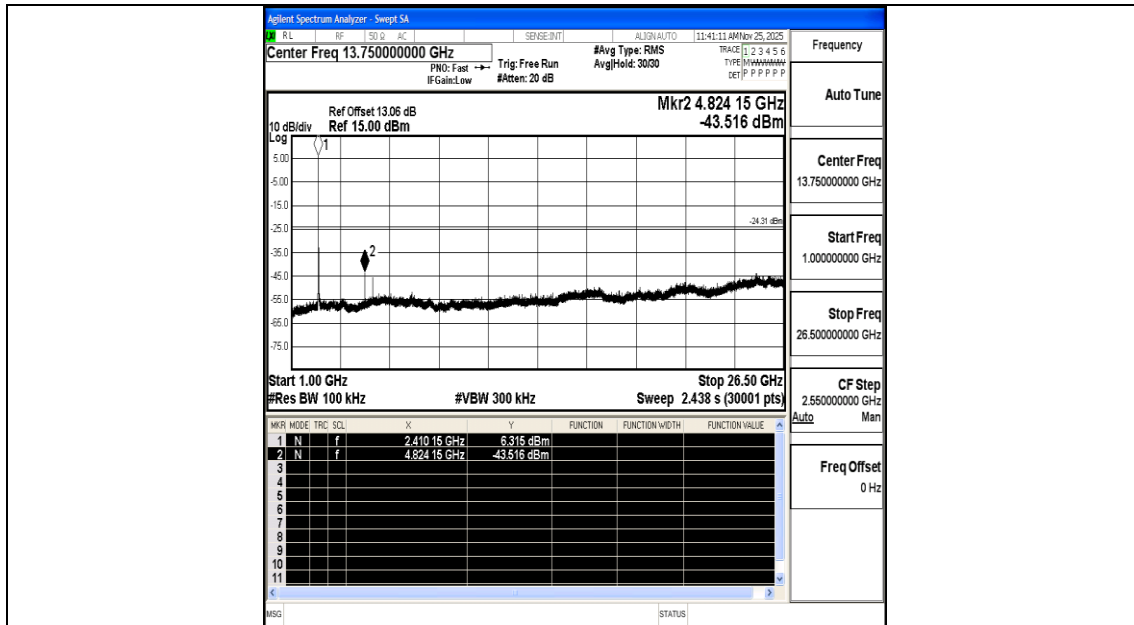
Appendix G: Conducted Spurious Emission

Test Result

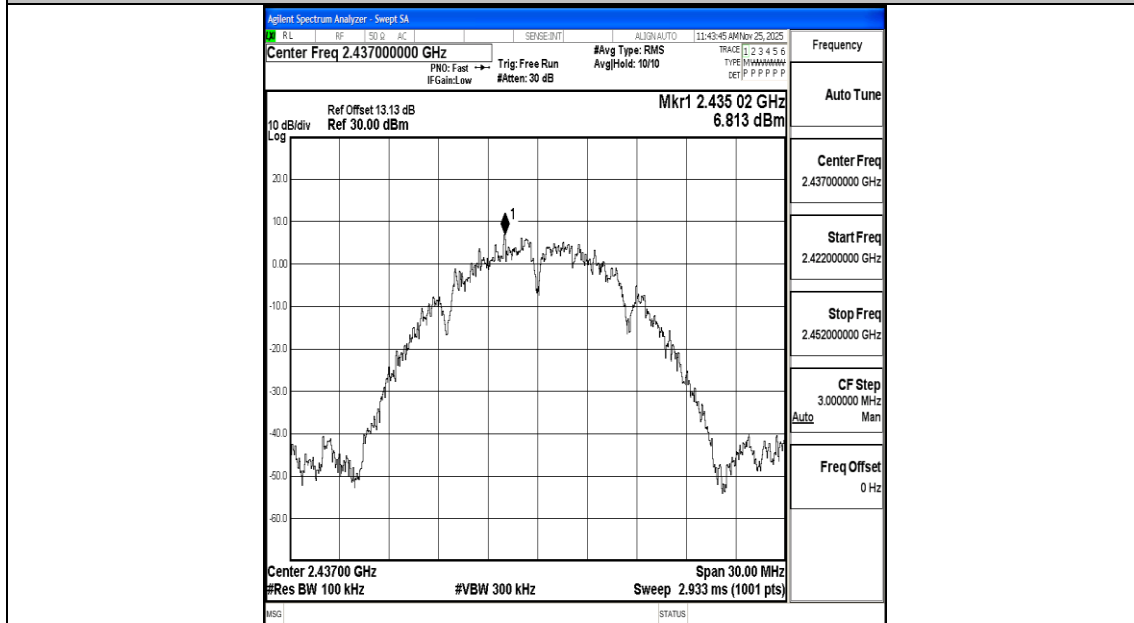
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	5.69	5.69	---	PASS
11B	Ant1	2412	30~1000	5.69	-56.76	≤-24.31	PASS
11B	Ant1	2412	1000~26500	5.69	-43.52	≤-24.31	PASS
11B	Ant1	2437	0~Reference	6.81	6.81	---	PASS
11B	Ant1	2437	30~1000	6.81	-56.78	≤-23.19	PASS
11B	Ant1	2437	1000~26500	6.81	-43.65	≤-23.19	PASS
11B	Ant1	2462	0~Reference	6.30	6.30	---	PASS
11B	Ant1	2462	30~1000	6.30	-39.63	≤-23.7	PASS
11B	Ant1	2462	1000~26500	6.30	-43.69	≤-23.7	PASS
11G	Ant1	2412	0~Reference	0.59	0.59	---	PASS
11G	Ant1	2412	30~1000	0.59	-57.09	≤-29.41	PASS
11G	Ant1	2412	1000~26500	0.59	-44.46	≤-29.41	PASS
11G	Ant1	2437	0~Reference	0.69	0.69	---	PASS
11G	Ant1	2437	30~1000	0.69	-56.48	≤-29.31	PASS
11G	Ant1	2437	1000~26500	0.69	-44.32	≤-29.31	PASS
11G	Ant1	2462	0~Reference	1.65	1.65	---	PASS
11G	Ant1	2462	30~1000	1.65	-56	≤-28.35	PASS
11G	Ant1	2462	1000~26500	1.65	-43.75	≤-28.35	PASS
11N20SISO	Ant1	2412	0~Reference	3.03	3.03	---	PASS
11N20SISO	Ant1	2412	30~1000	3.03	-56.58	≤-26.97	PASS
11N20SISO	Ant1	2412	1000~26500	3.03	-45.2	≤-26.97	PASS
11N20SISO	Ant1	2437	0~Reference	0.81	0.81	---	PASS
11N20SISO	Ant1	2437	30~1000	0.81	-56.45	≤-29.19	PASS
11N20SISO	Ant1	2437	1000~26500	0.81	-44.02	≤-29.19	PASS
11N20SISO	Ant1	2462	0~Reference	1.34	1.34	---	PASS
11N20SISO	Ant1	2462	30~1000	1.34	-56.57	≤-28.66	PASS
11N20SISO	Ant1	2462	1000~26500	1.34	-44.64	≤-28.66	PASS
11AX20SISO	Ant1	2412	0~Reference	1.03	1.03	---	PASS
11AX20SISO	Ant1	2412	30~1000	1.03	-57.66	≤-28.97	PASS
11AX20SISO	Ant1	2412	1000~26500	1.03	-44.67	≤-28.97	PASS
11AX20SISO	Ant1	2437	0~Reference	3.07	3.07	---	PASS
11AX20SISO	Ant1	2437	30~1000	3.07	-57.04	≤-26.93	PASS
11AX20SISO	Ant1	2437	1000~26500	3.07	-45.07	≤-26.93	PASS
11AX20SISO	Ant1	2462	0~Reference	1.10	1.10	---	PASS
11AX20SISO	Ant1	2462	30~1000	1.10	-56.8	≤-28.9	PASS
11AX20SISO	Ant1	2462	1000~26500	1.10	-44.33	≤-28.9	PASS

Test Graphs





11B-Ant1-2412-1000~26500-PASS



11B-Ant1-2437-0~Reference-PASS

