

Appendix Test Data for WLAN(2. 4G) (Conducted Measurement)

Product Name: LEARNING CAMERA



Trade Mark:

Test Model: DEX-01

FCC ID: 2BOSD-DEX-01

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

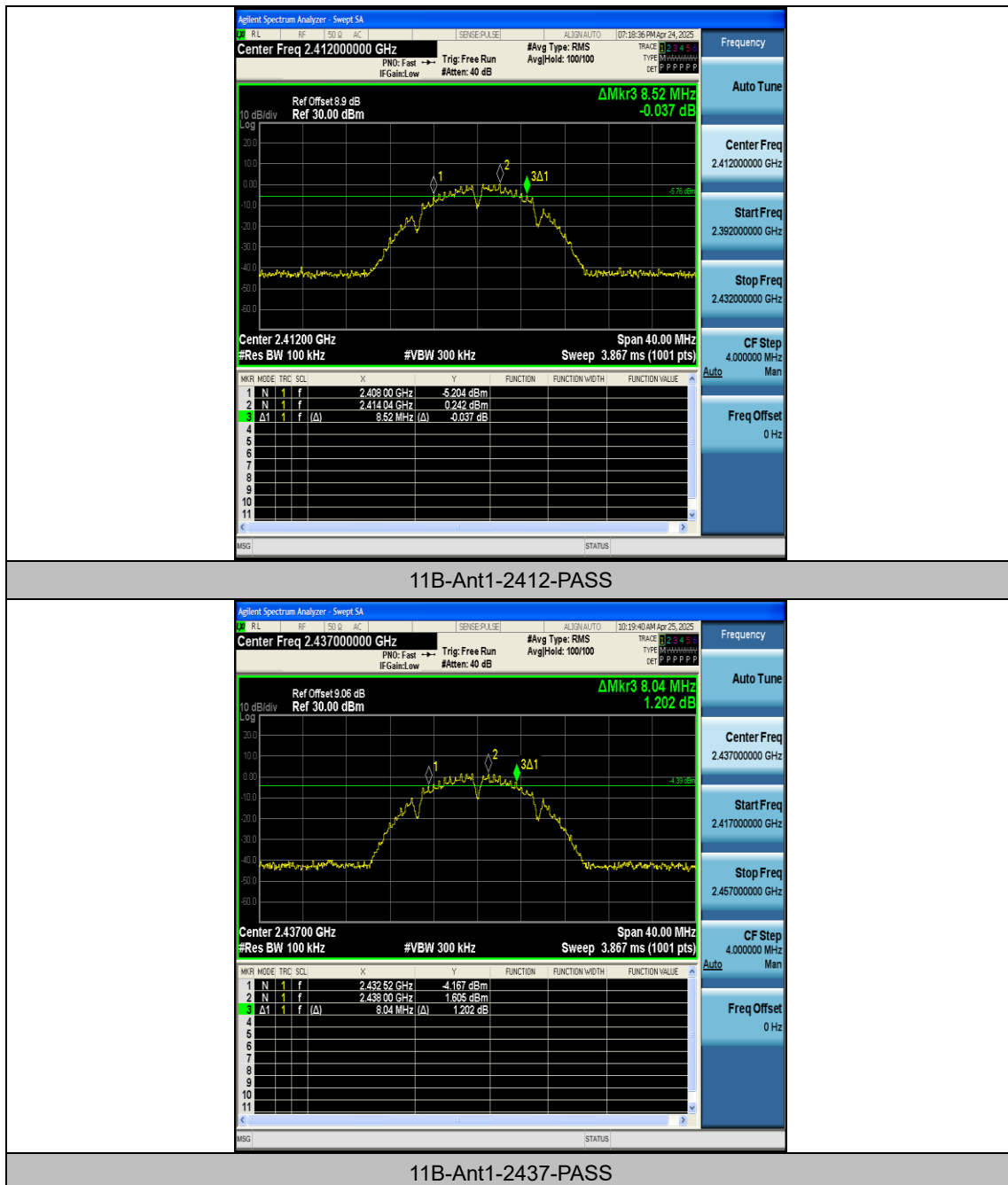
Appendix A: DTS Bandwidth

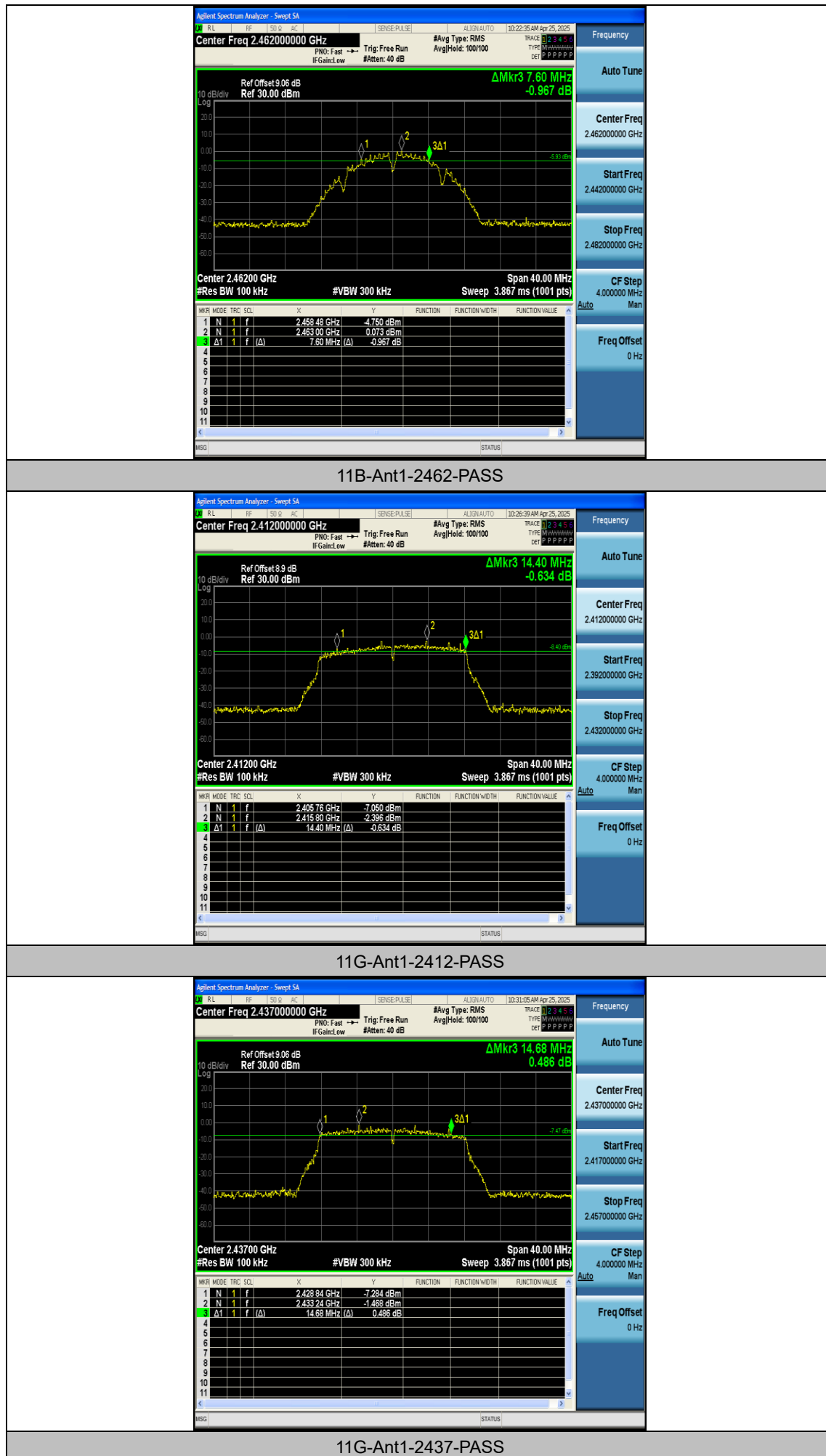
Test Result

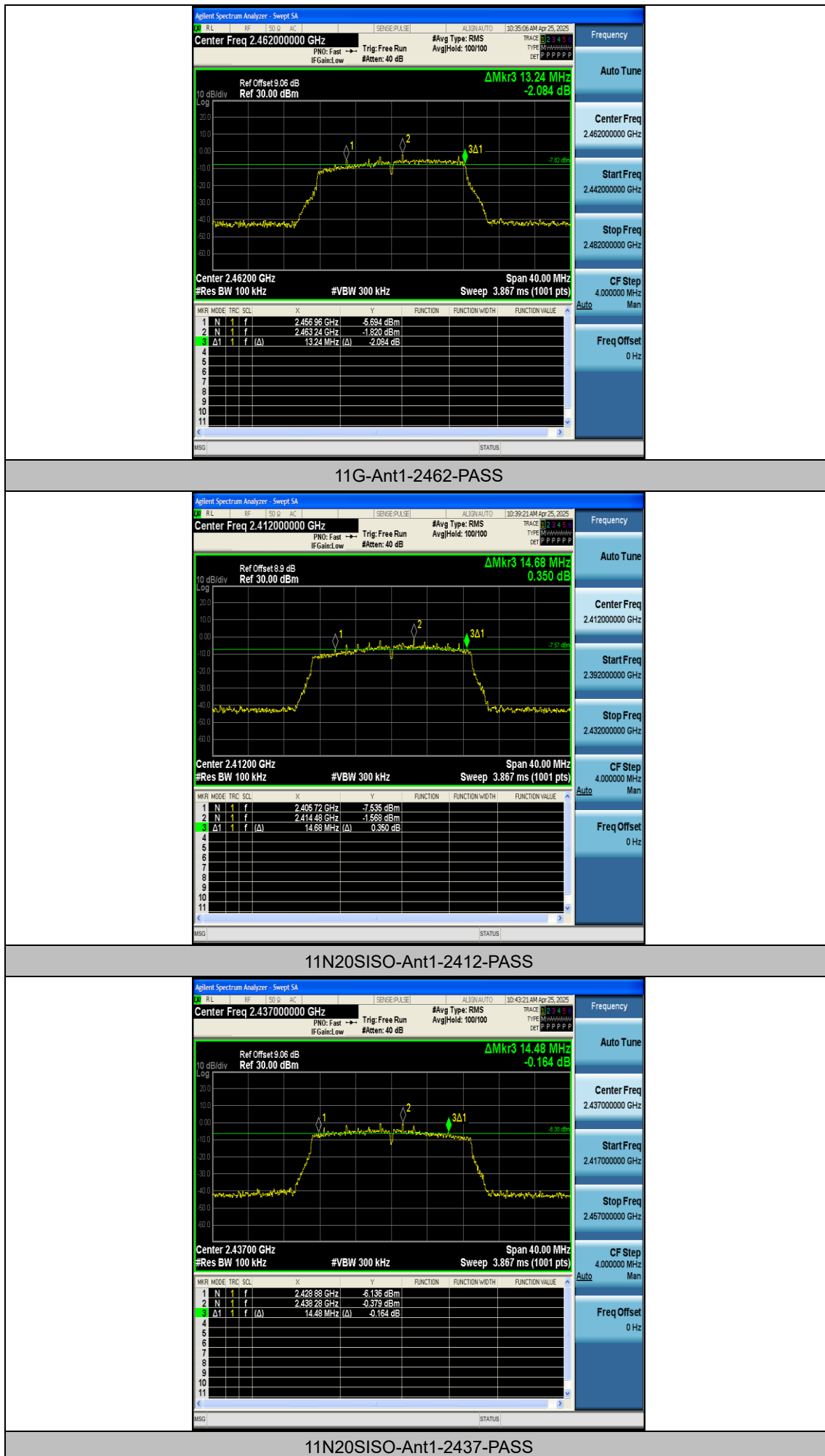
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.520	2408.000	2416.520	0.5	PASS
11B	Ant1	2437	8.040	2432.520	2440.560	0.5	PASS
11B	Ant1	2462	7.600	2458.480	2466.080	0.5	PASS
11G	Ant1	2412	14.400	2405.760	2420.160	0.5	PASS
11G	Ant1	2437	14.680	2428.840	2443.520	0.5	PASS
11G	Ant1	2462	13.240	2456.960	2470.200	0.5	PASS
11N20SISO	Ant1	2412	14.680	2405.720	2420.400	0.5	PASS
11N20SISO	Ant1	2437	14.480	2428.880	2443.360	0.5	PASS
11N20SISO	Ant1	2462	16.320	2454.480	2470.800	0.5	PASS
11N40SISO	Ant1	2422	28.720	2407.040	2435.760	0.5	PASS
11N40SISO	Ant1	2437	35.360	2419.160	2454.520	0.5	PASS
11N40SISO	Ant1	2452	34.560	2435.680	2470.240	0.5	PASS

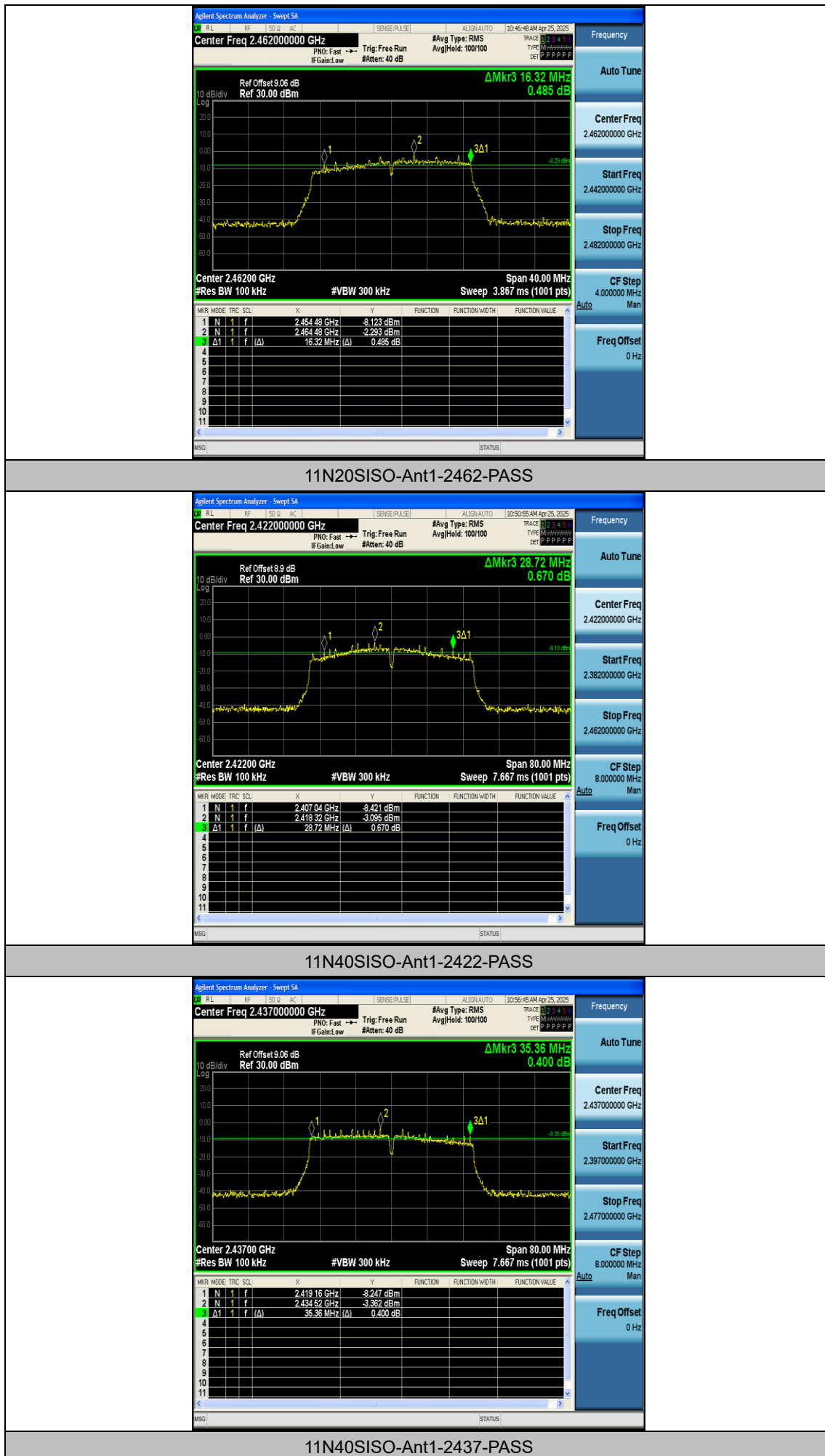
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

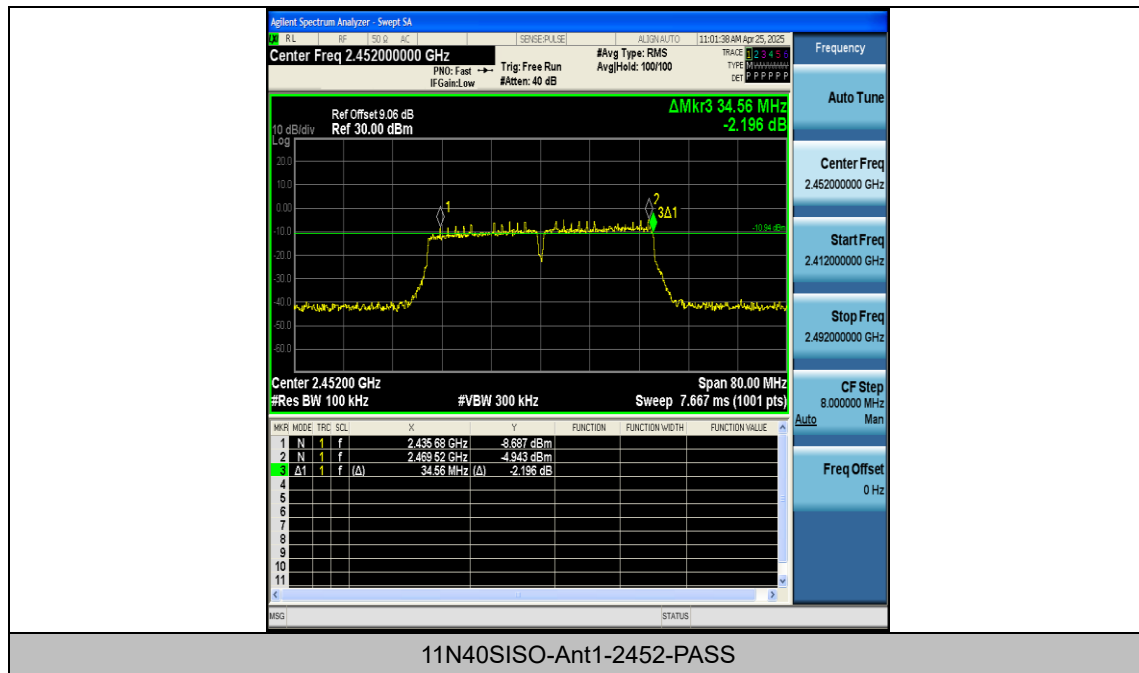
Test Graphs











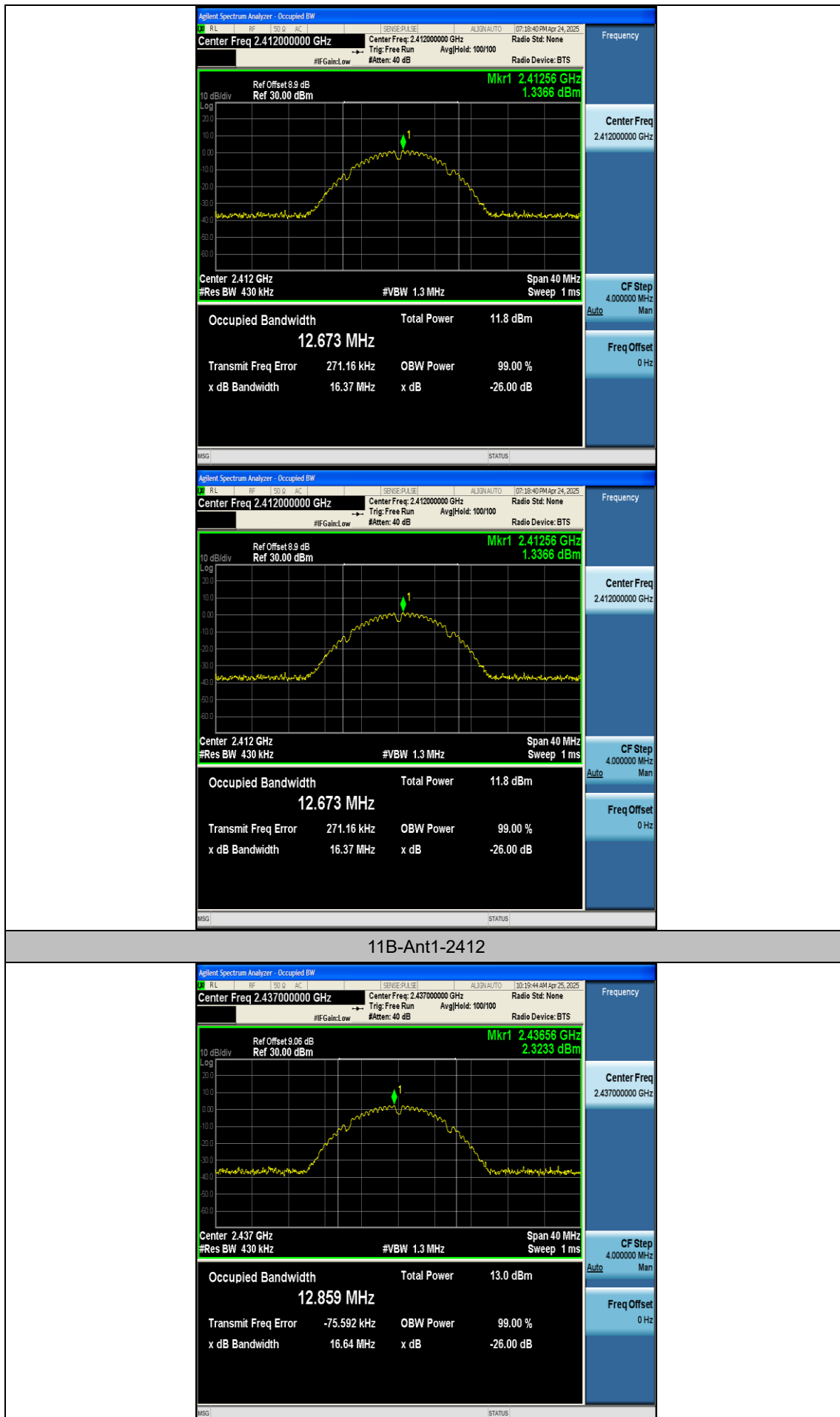
Appendix B: Occupied Channel Bandwidth

Test Result

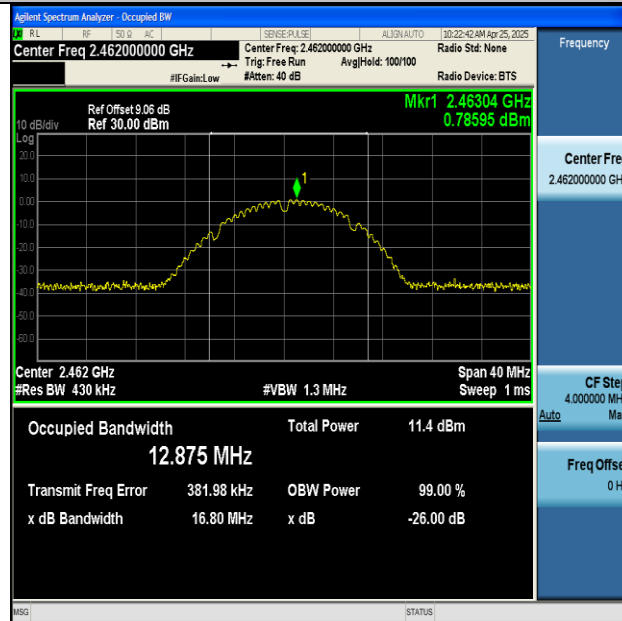
Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	12.673	2405.9347	2418.6077	---	---
11B	Ant1	2437	12.859	2430.4949	2443.3539	---	---
11B	Ant1	2462	12.875	2455.9445	2468.8195	---	---
11G	Ant1	2412	16.794	2403.8293	2420.6233	---	---
11G	Ant1	2437	16.846	2428.5433	2445.3893	---	---
11G	Ant1	2462	16.818	2453.8500	2470.6680	---	---
11N20SISO	Ant1	2412	17.766	2403.3009	2421.0669	---	---
11N20SISO	Ant1	2437	17.871	2428.0100	2445.8810	---	---
11N20SISO	Ant1	2462	17.792	2453.3020	2471.0940	---	---
11N40SISO	Ant1	2422	35.670	2404.2726	2439.9426	---	---
11N40SISO	Ant1	2437	36.461	2418.6503	2455.1113	---	---
11N40SISO	Ant1	2452	36.678	2434.0348	2470.7128	---	---

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

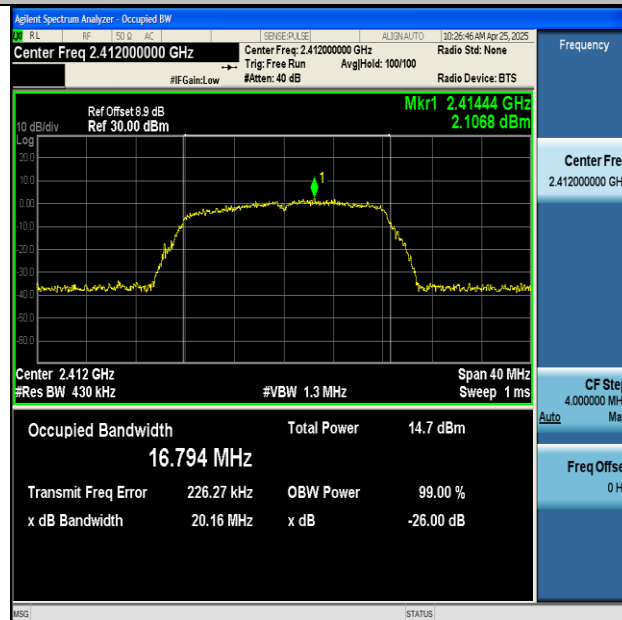
Test Graphs



11B-Ant1-2437



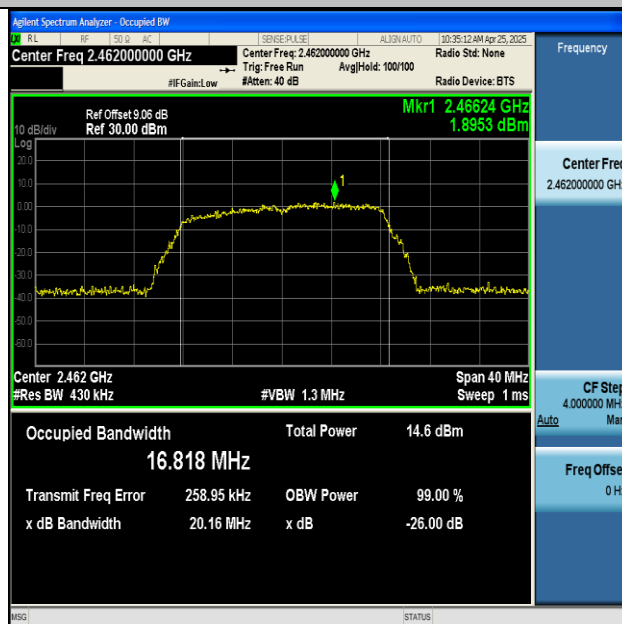
11B-Ant1-2462



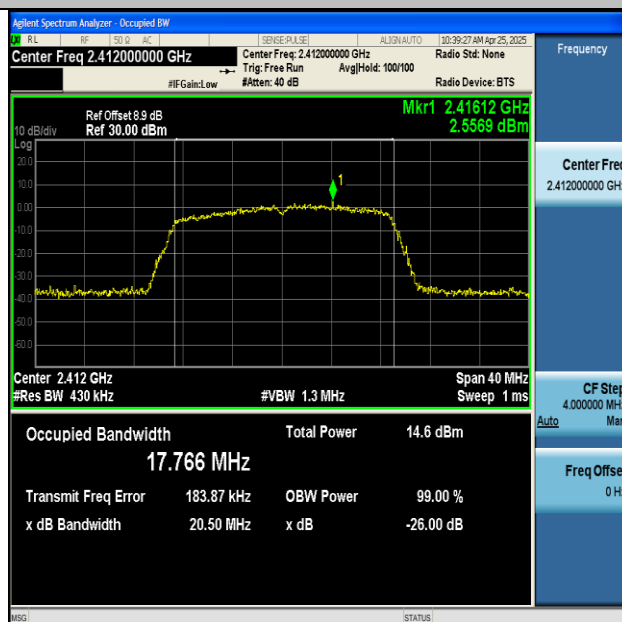
11G-Ant1-2412



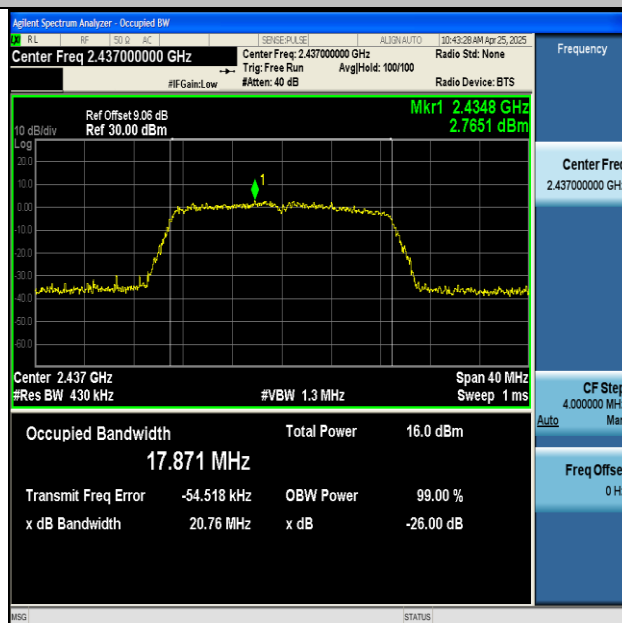
11G-Ant1-2437



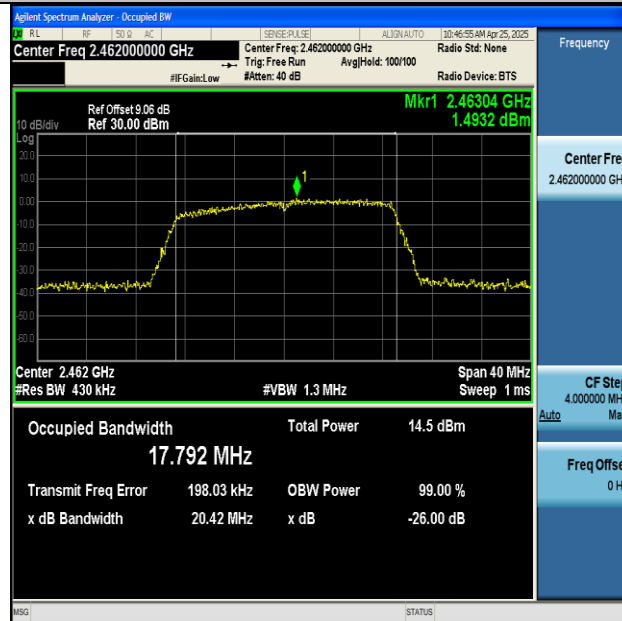
11G-Ant1-2462



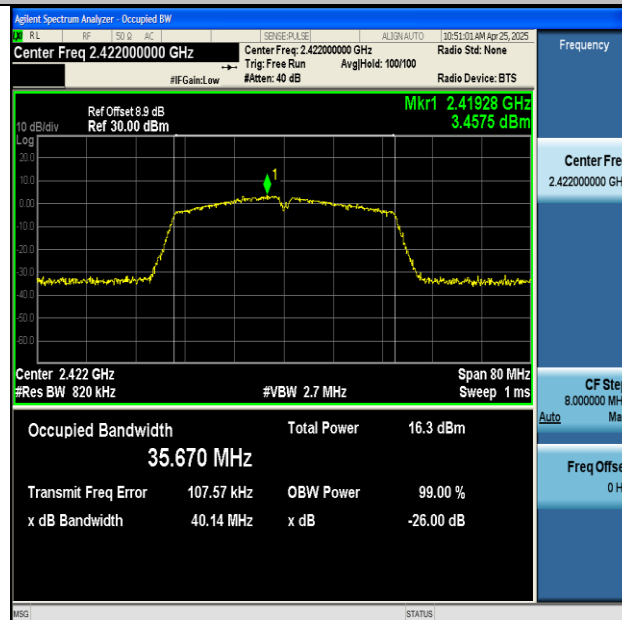
11N20SISO-Ant1-2412



11N20SISO-Ant1-2437

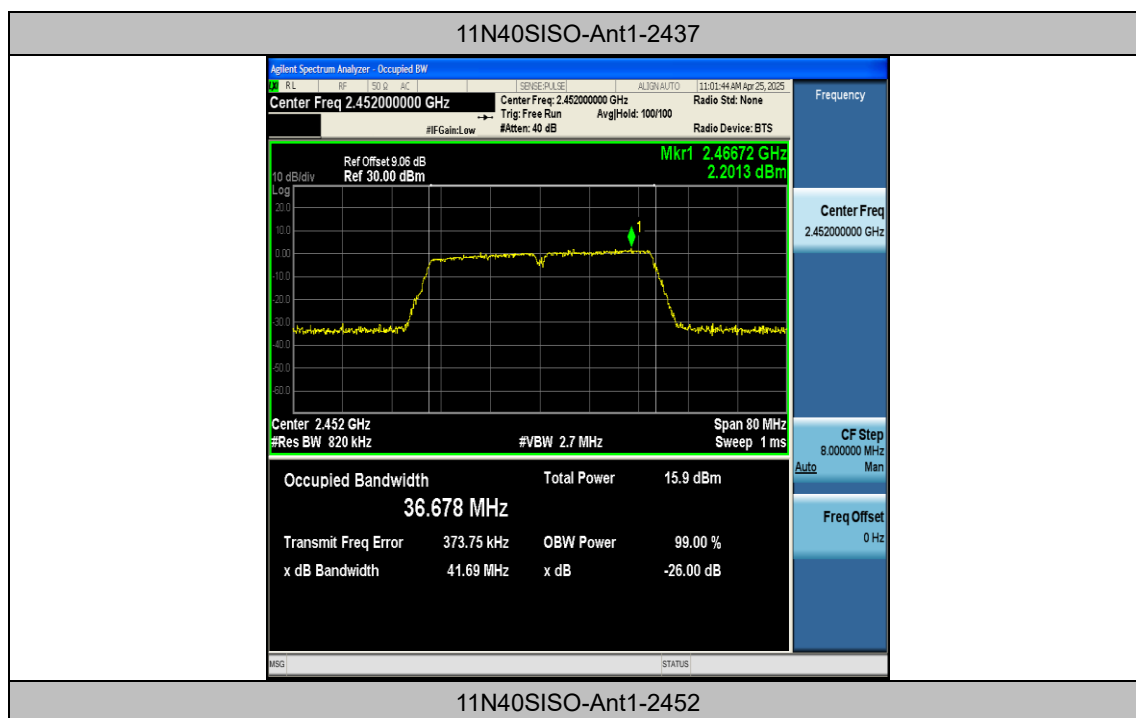


11N20SISO-Ant1-2462



11N40SISO-Ant1-2422





Appendix C: Maximum Average conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	8.72	≤30.00	PASS
11B	Ant1	2437	10.03	≤30.00	PASS
11B	Ant1	2462	8.46	≤30.00	PASS
11G	Ant1	2412	8.66	≤30.00	PASS
11G	Ant1	2437	10.01	≤30.00	PASS
11G	Ant1	2462	8.51	≤30.00	PASS
11N20SISO	Ant1	2412	8.68	≤30.00	PASS
11N20SISO	Ant1	2437	9.86	≤30.00	PASS
11N20SISO	Ant1	2462	8.38	≤30.00	PASS
11N40SISO	Ant1	2422	9.46	≤30.00	PASS
11N40SISO	Ant1	2437	9.73	≤30.00	PASS
11N40SISO	Ant1	2452	9.04	≤30.00	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)

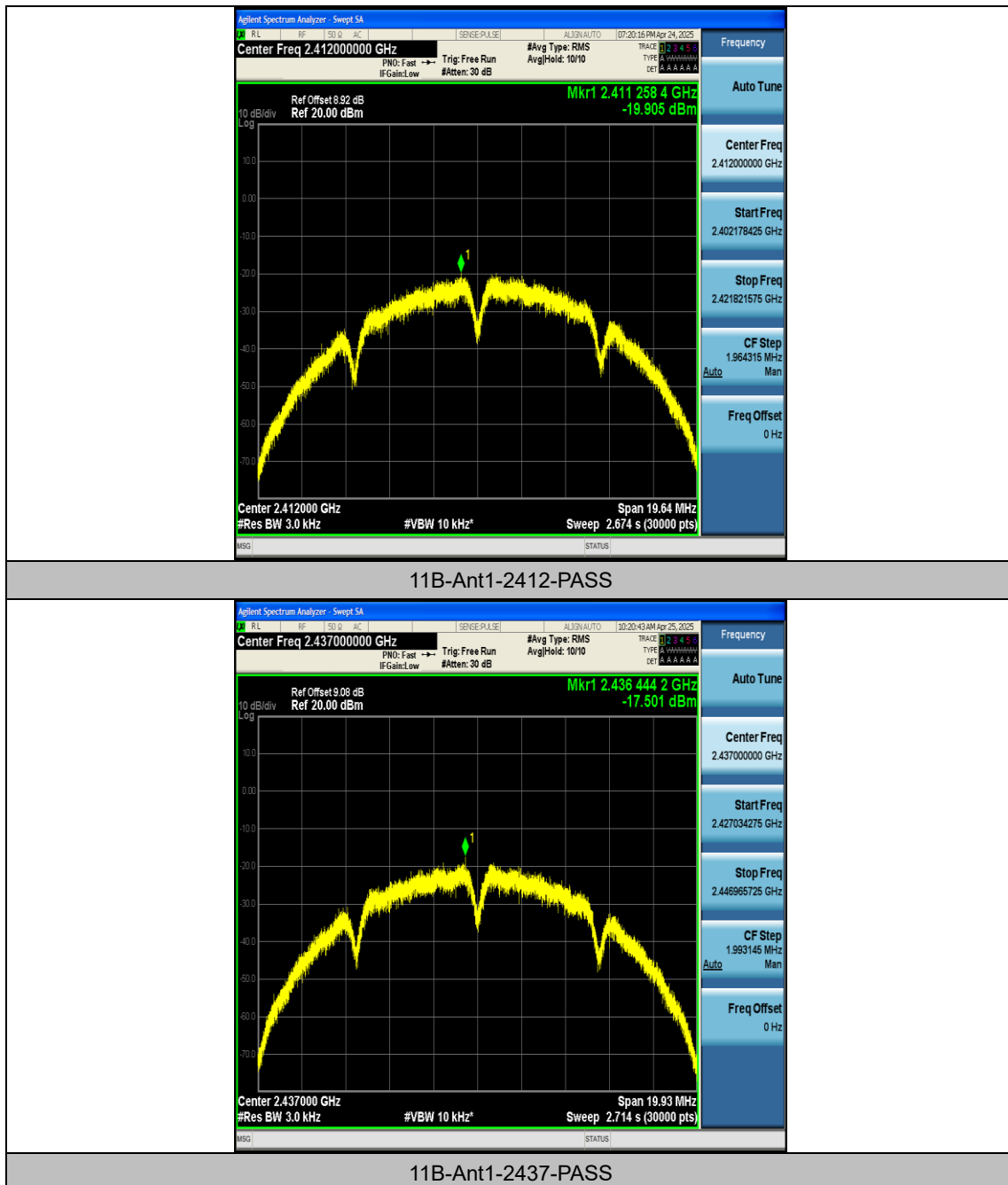
Appendix D: Maximum Average power spectral density

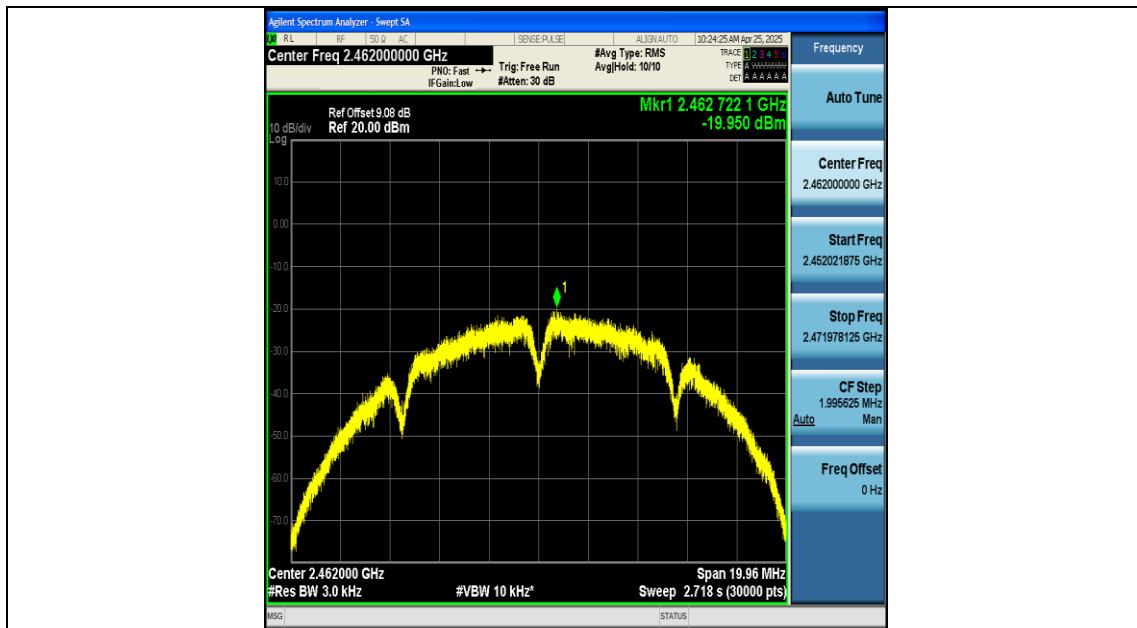
Test Result

Test Mode	Antenna	Frequency [MHz]	Raw. Data [dBm/3kHz]	Dc. Factor	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-19.93	0.02	-19.91	≤8.00	PASS
11B	Ant1	2437	-17.52	0.02	-17.50	≤8.00	PASS
11B	Ant1	2462	-19.97	0.02	-19.95	≤8.00	PASS
11G	Ant1	2412	-21.84	0.15	-21.69	≤8.00	PASS
11G	Ant1	2437	-21.80	0.15	-21.65	≤8.00	PASS
11G	Ant1	2462	-22.66	0.15	-22.51	≤8.00	PASS
11N20SISO	Ant1	2412	-22.70	0.17	-22.53	≤8.00	PASS
11N20SISO	Ant1	2437	-21.49	0.13	-21.36	≤8.00	PASS
11N20SISO	Ant1	2462	-22.29	0.13	-22.16	≤8.00	PASS
11N40SISO	Ant1	2422	-23.35	0.32	-23.03	≤8.00	PASS
11N40SISO	Ant1	2437	-23.36	0.26	-23.10	≤8.00	PASS
11N40SISO	Ant1	2452	-25.54	0.33	-25.21	≤8.00	PASS

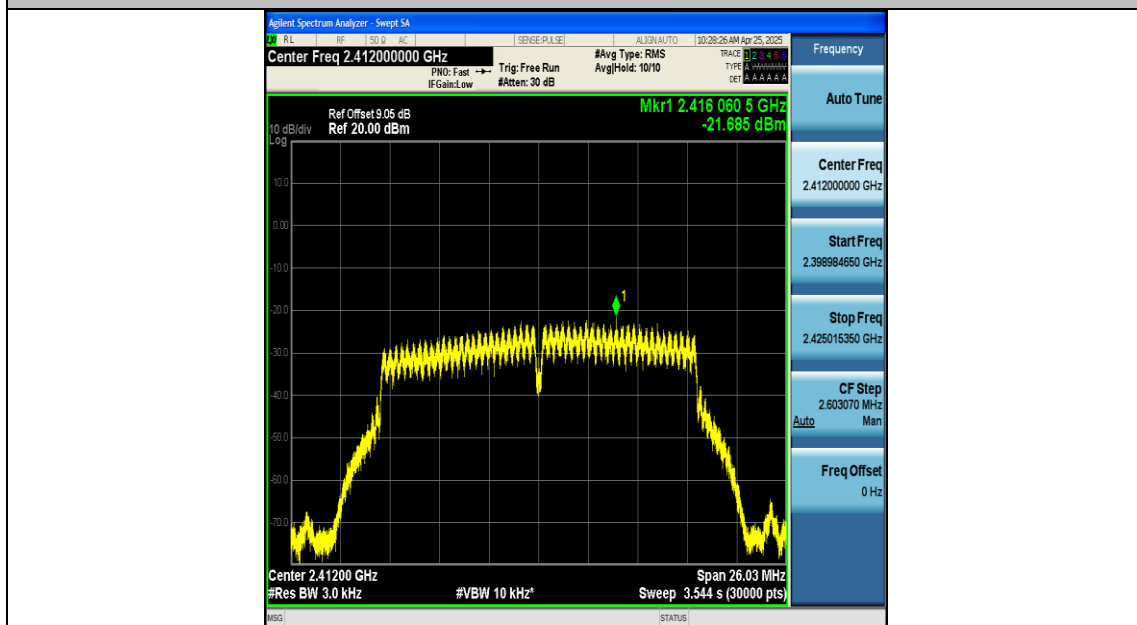
Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)

Test Graphs

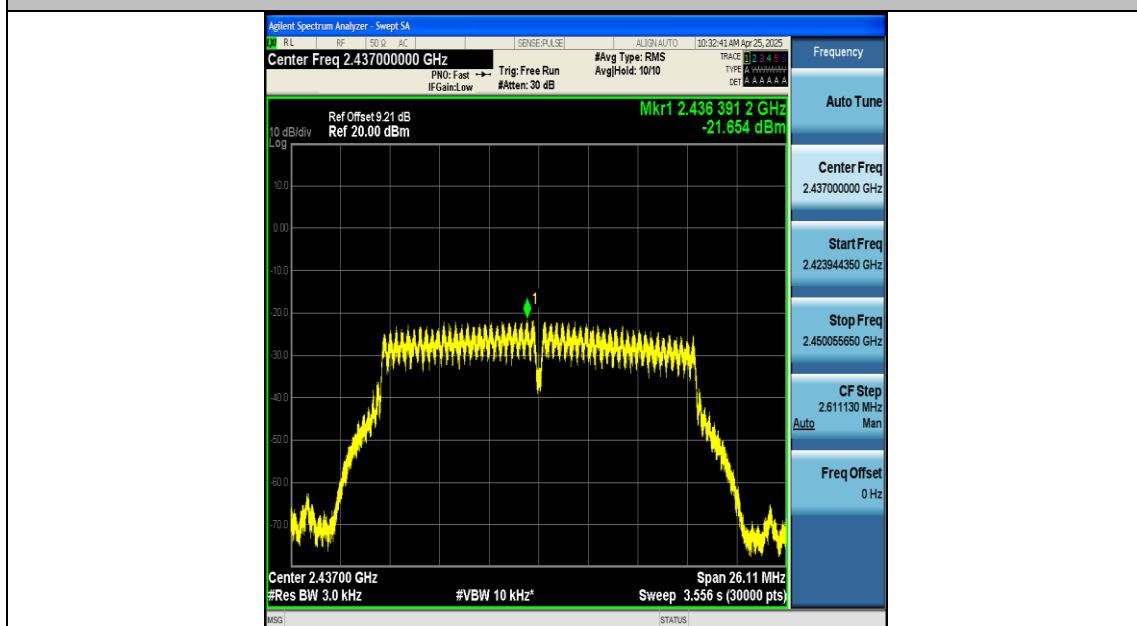




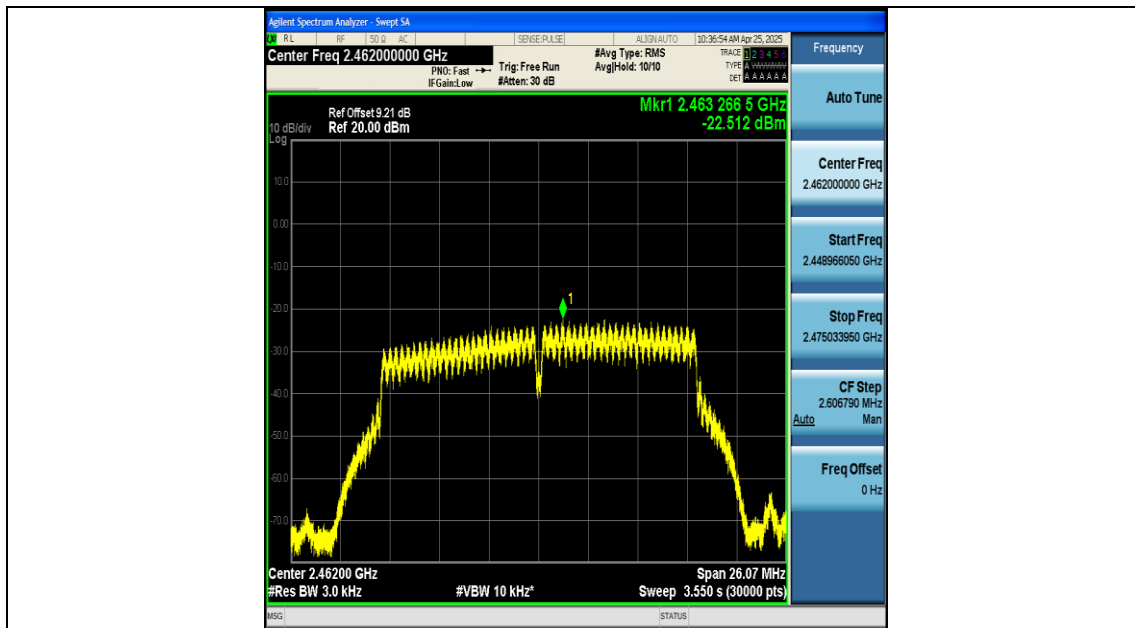
11B-Ant1-2462-PASS



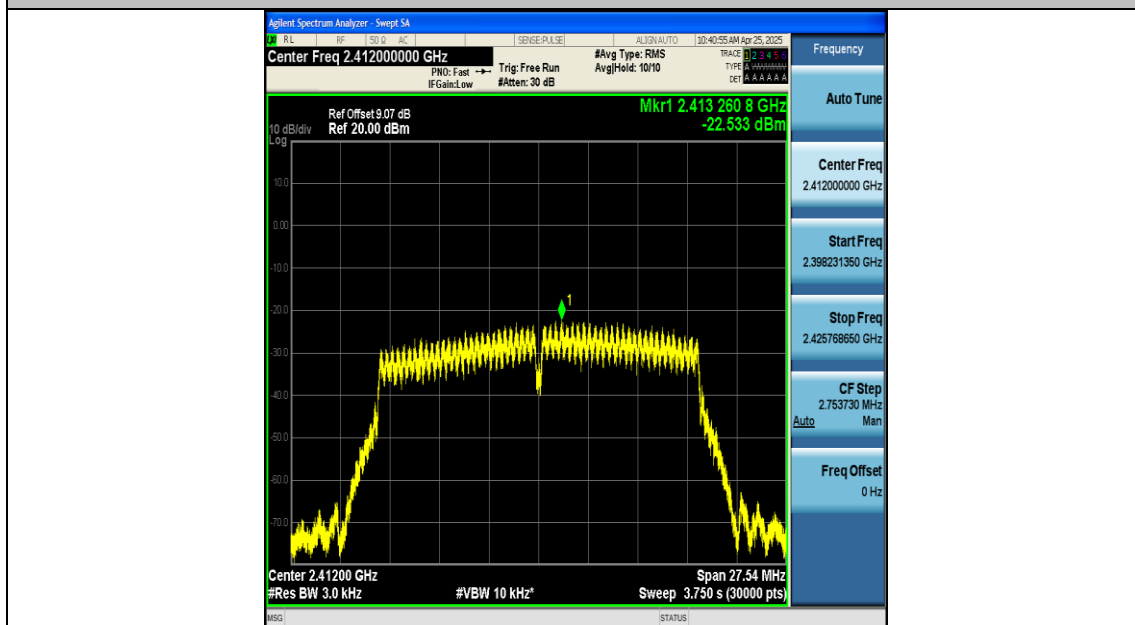
11G-Ant1-2412-PASS



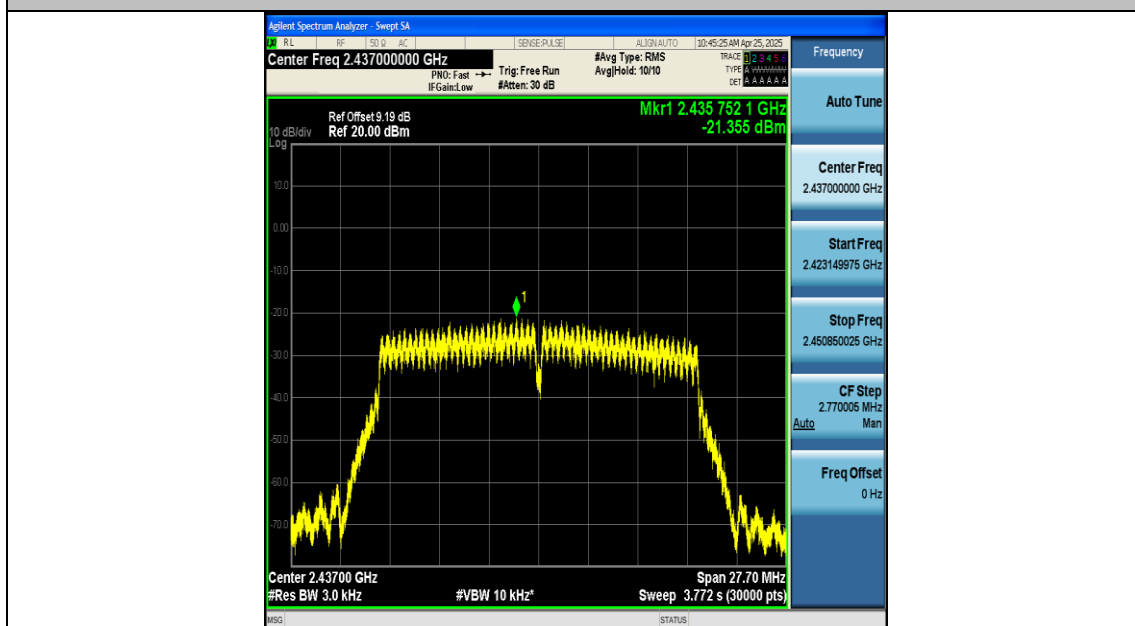
11G-Ant1-2437-PASS



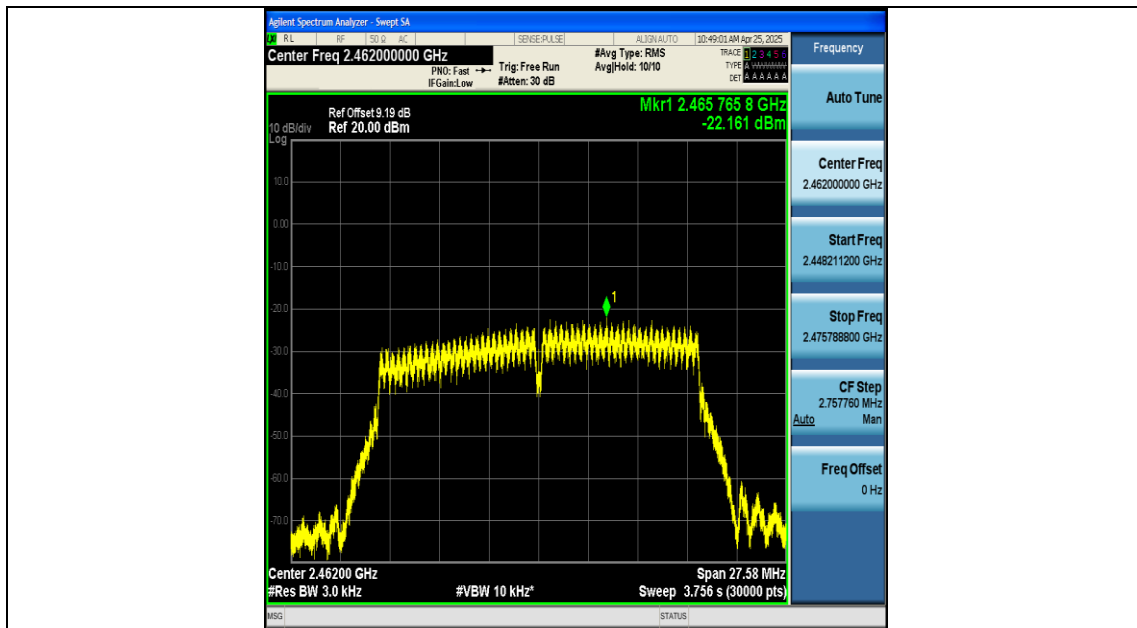
11G-Ant1-2462-PASS



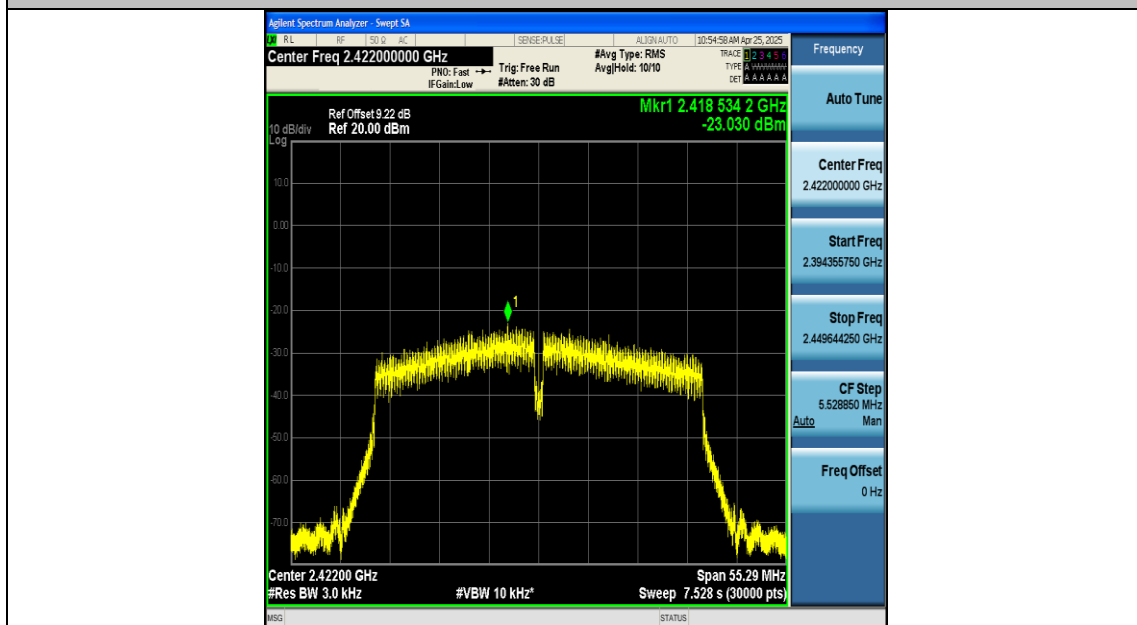
11N20SISO-Ant1-2412-PASS



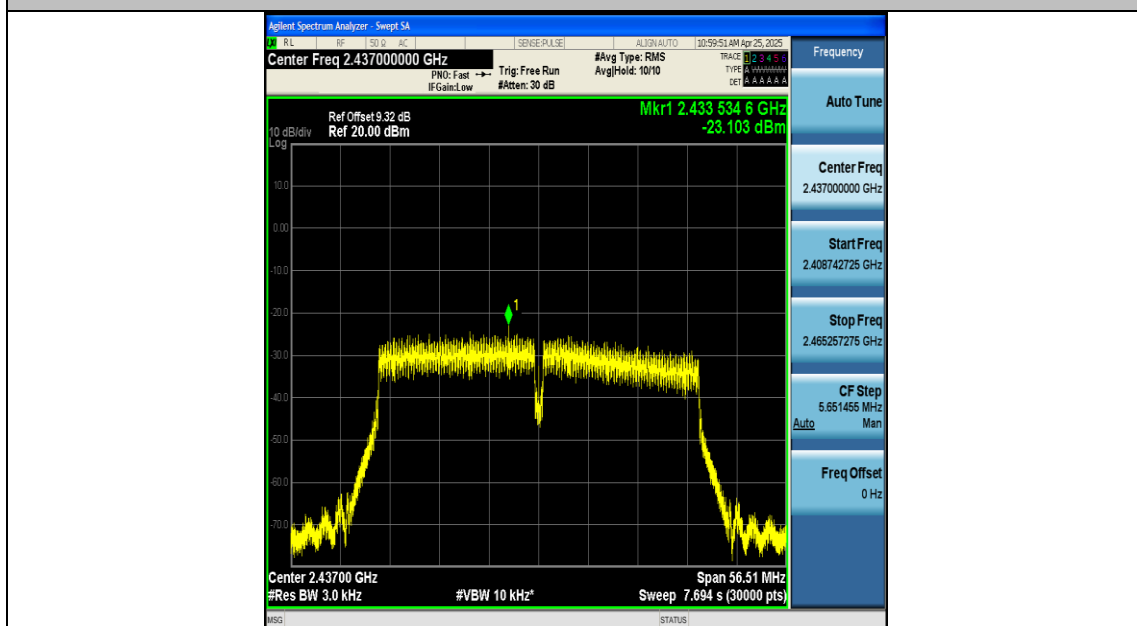
11N20SISO-Ant1-2437-PASS



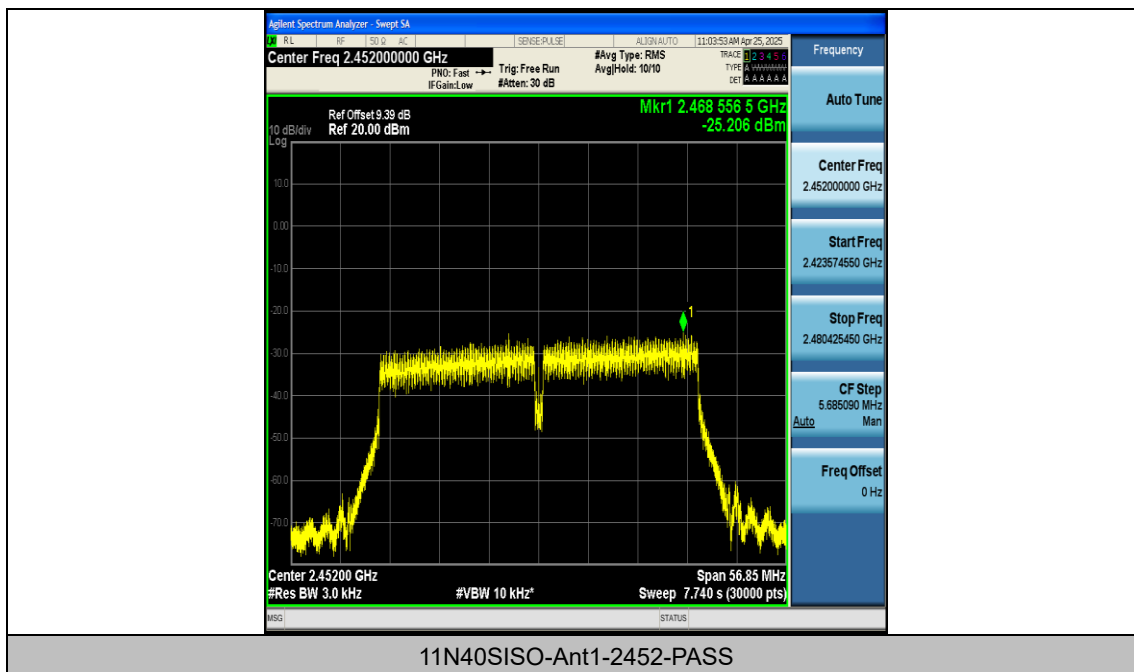
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



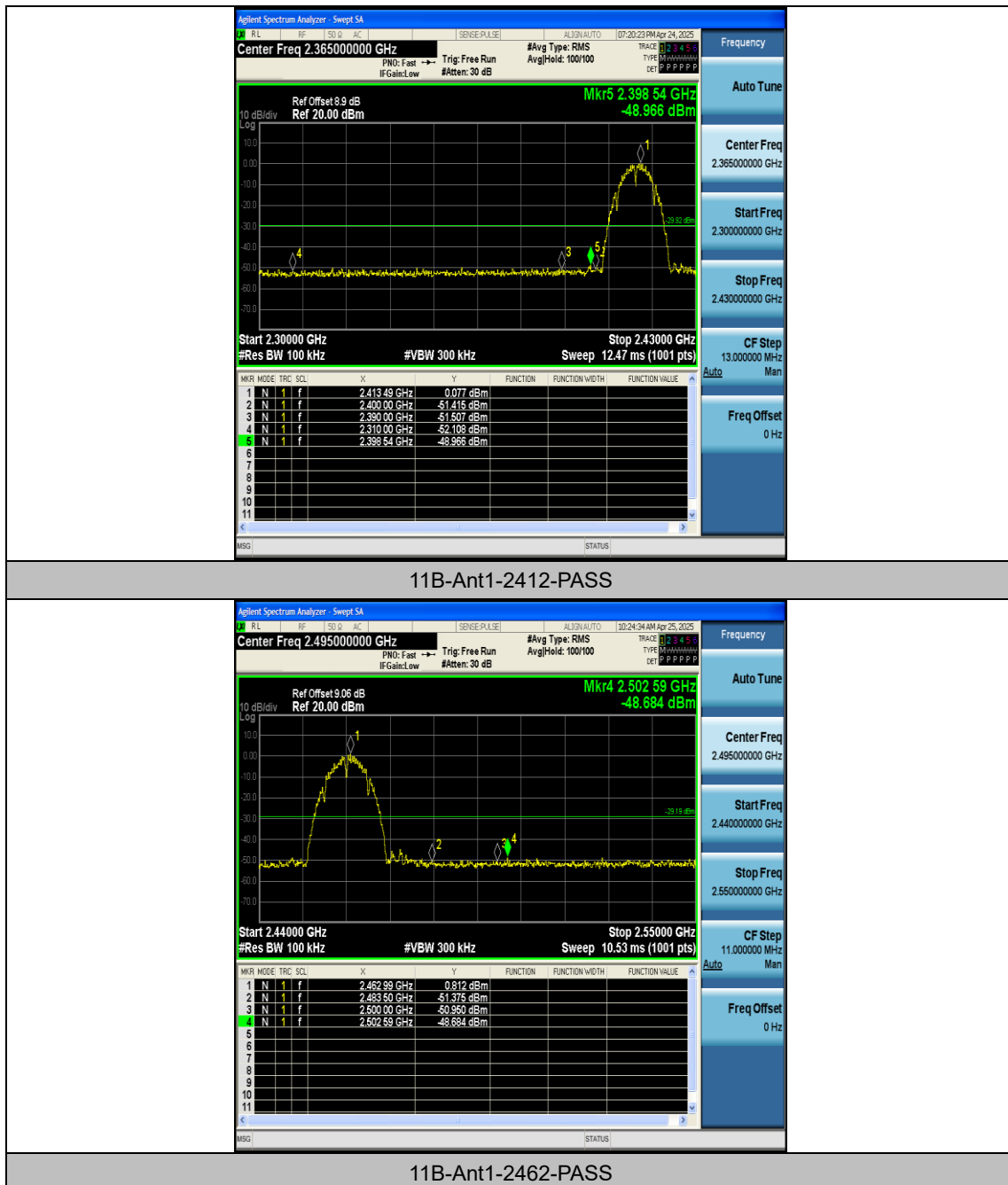
Appendix E: Band edge measurements

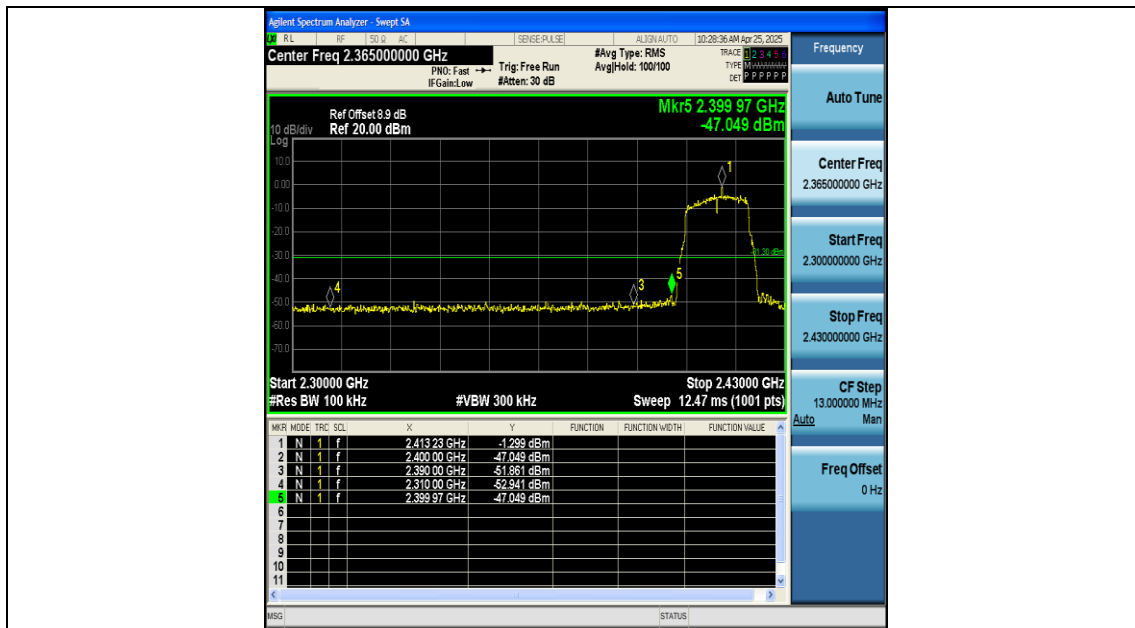
Test Result

Test Mode	Antenna	Ch. Name	Frequency. [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	0.08	-48.97	≤ -29.92	PASS
11B	Ant1	High	2462	0.81	-48.68	≤ -29.19	PASS
11G	Ant1	Low	2412	-1.30	-47.05	≤ -31.3	PASS
11G	Ant1	High	2462	-2.34	-49.28	≤ -32.34	PASS
11N20SI SO	Ant1	Low	2412	-1.26	-47.79	≤ -31.26	PASS
11N20SI SO	Ant1	High	2462	-3.36	-47.54	≤ -33.36	PASS
11N40SI SO	Ant1	Low	2422	-2.23	-44.55	≤ -32.23	PASS
11N40SI SO	Ant1	High	2452	-4.31	-47.42	≤ -34.31	PASS

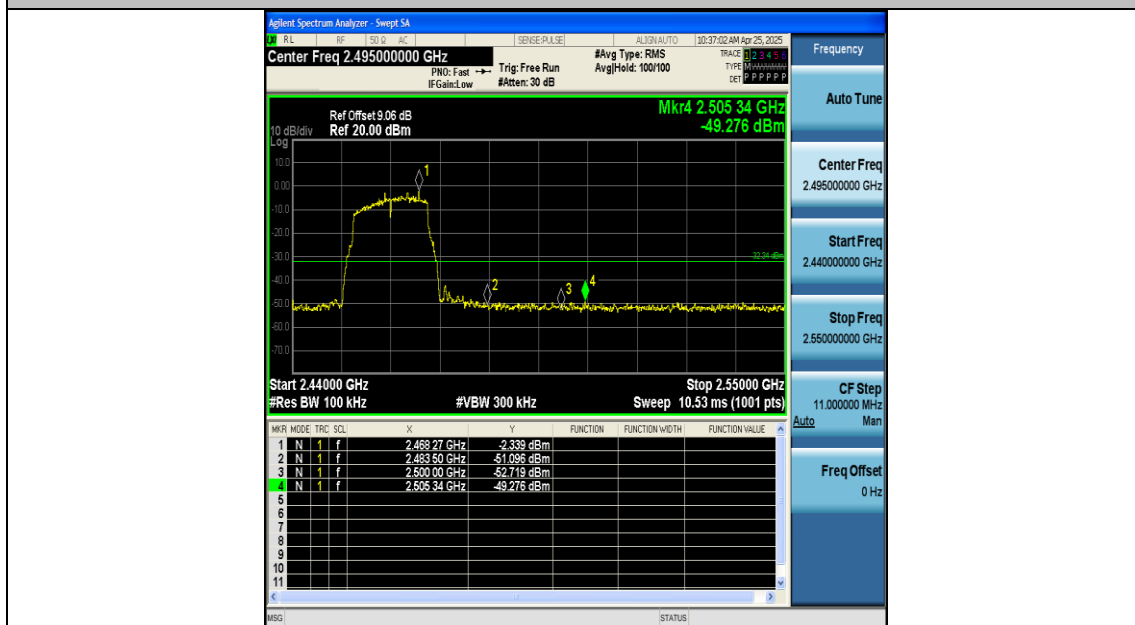
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

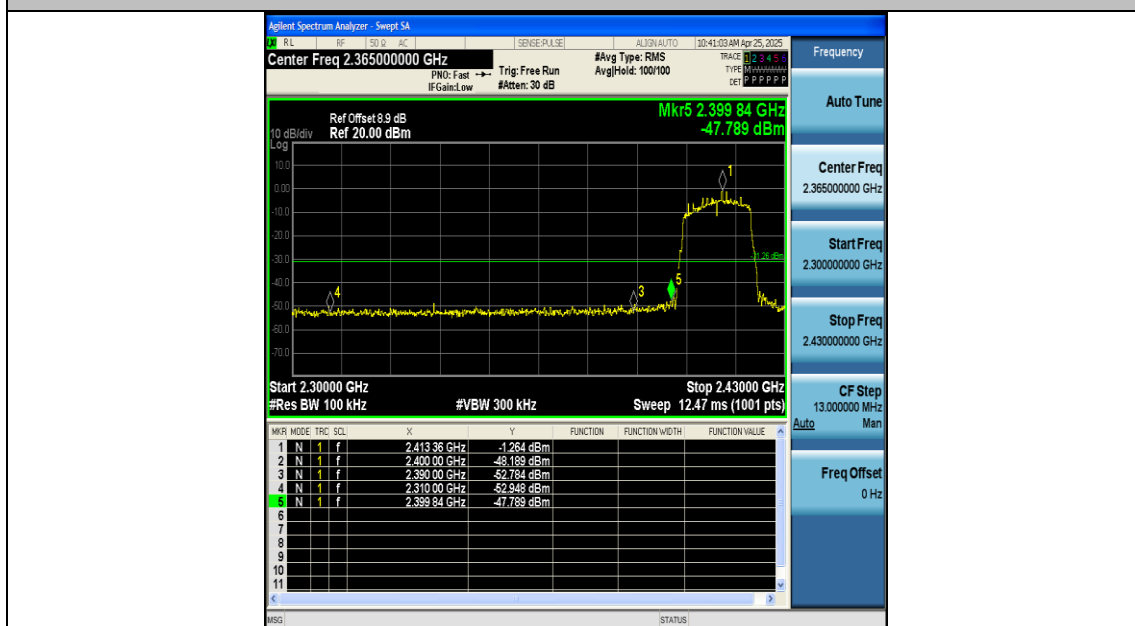




11G-Ant1-2412-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS