

Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Infrared heating panel

Test Model: US-BREF750

Environmental Conditions

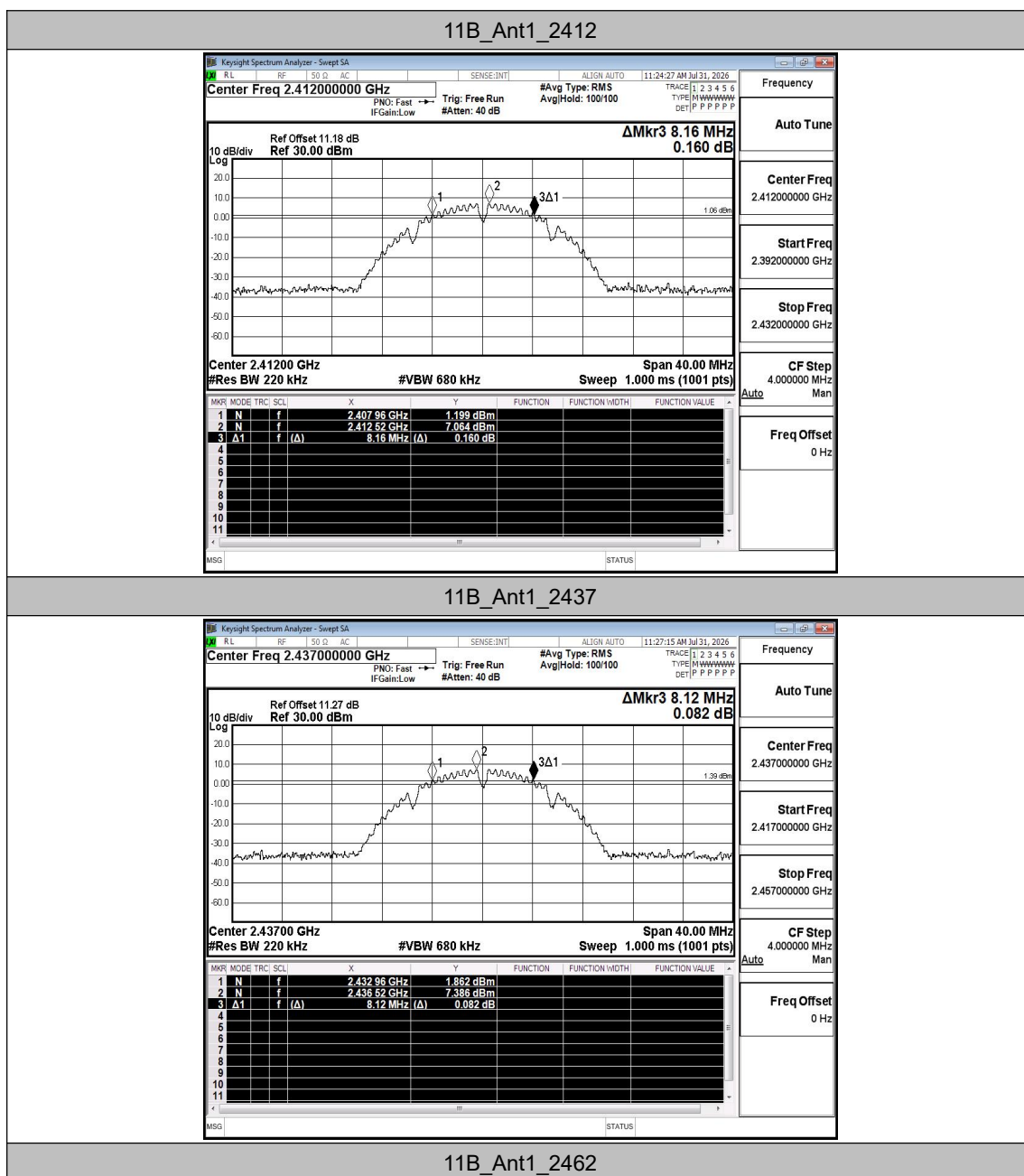
Temperature:	23.4°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

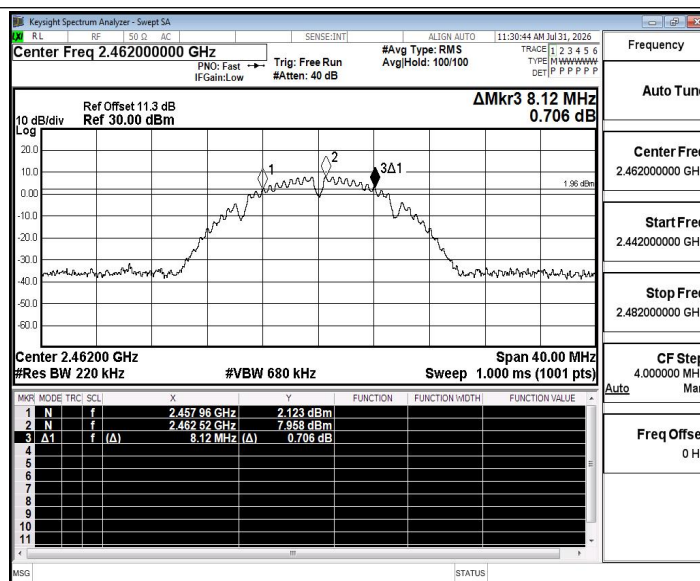
B.1 6dB Bandwidth

Test Result

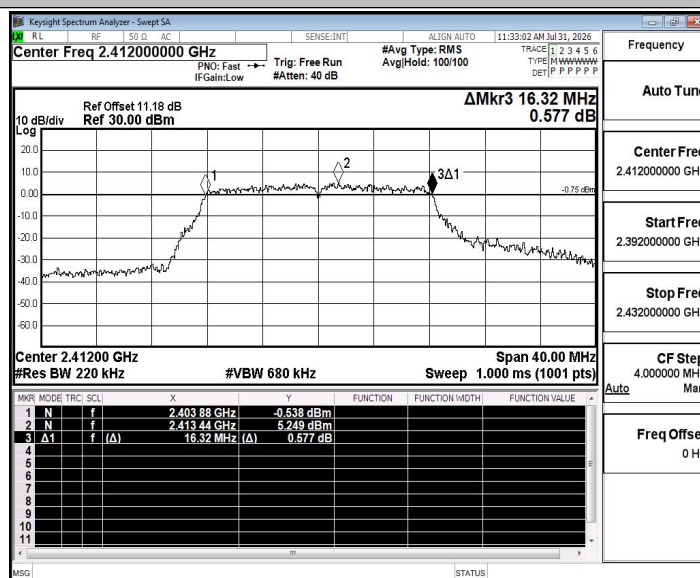
TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.160	2407.960	2416.120	0.5	PASS
		2437	8.120	2432.960	2441.080	0.5	PASS
		2462	8.120	2457.960	2466.080	0.5	PASS
11G	Ant1	2412	16.320	2403.880	2420.200	0.5	PASS
		2437	16.280	2428.880	2445.160	0.5	PASS
		2462	16.200	2453.960	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.440	2428.320	2445.760	0.5	PASS
		2462	17.560	2453.240	2470.800	0.5	PASS

Test Graphs

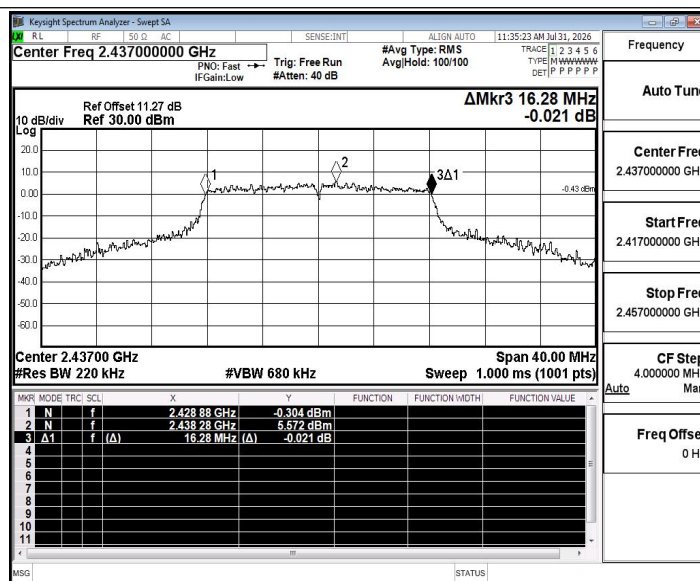




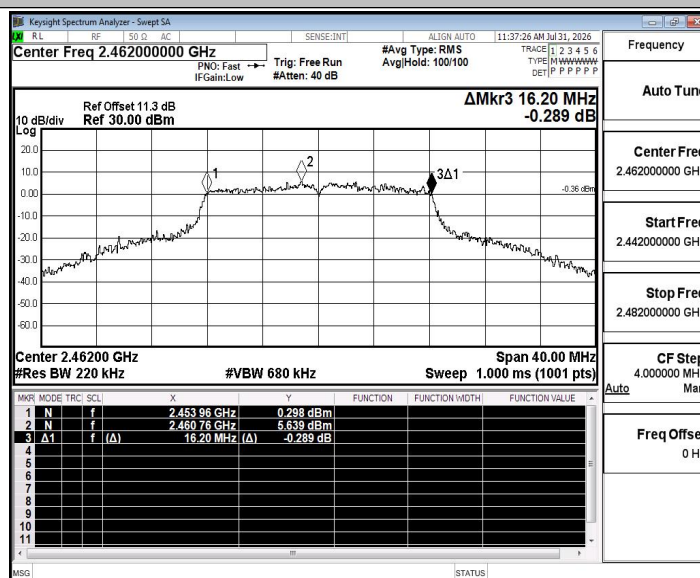
11G_Ant1_2412



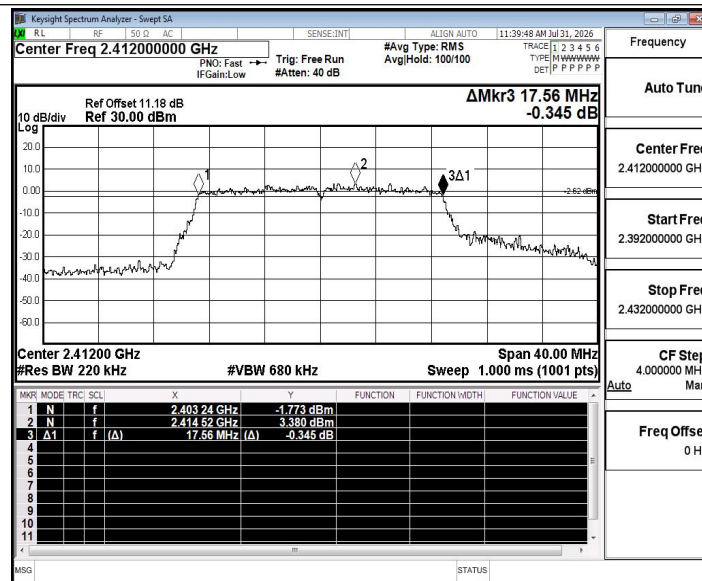
11G_Ant1_2437



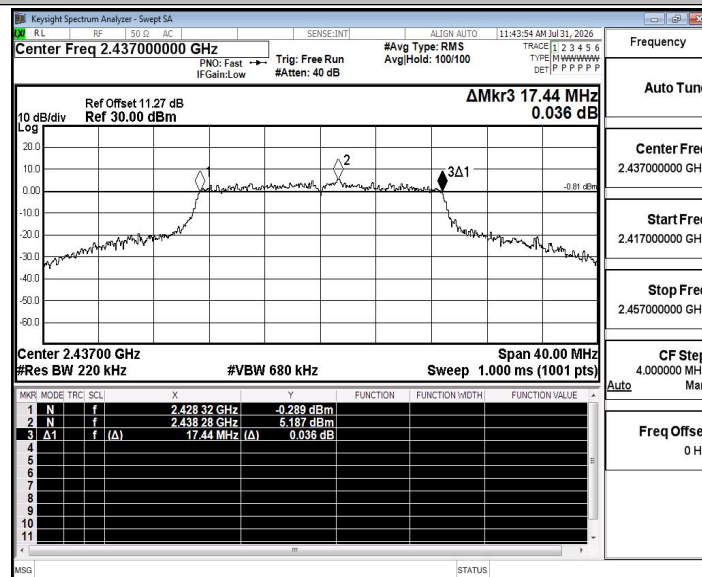
11G_Ant1_2462



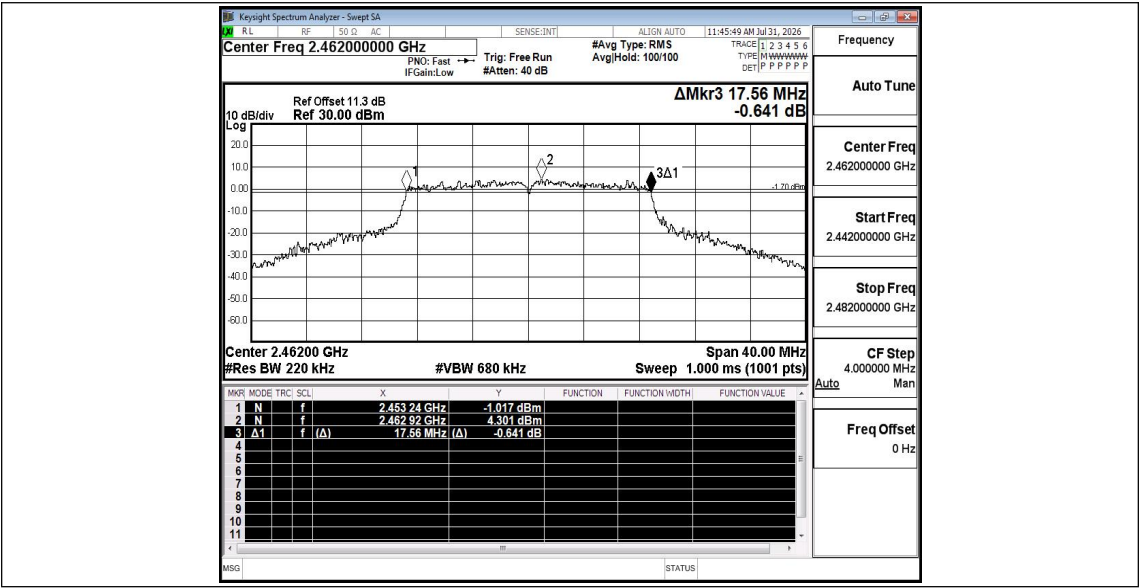
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



B.2 Maximum Average conducted output power

Test Result

TestMode	Antenna	Frequency [MHz]	Measured Power	DC Factor [dB]	AV Power [dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	14.34	0.03	14.37	≤30.00	PASS
		2437	15.05	0.03	15.08	≤30.00	PASS
		2462	14.83	0.03	14.86	≤30.00	PASS
11G	Ant1	2412	14.68	0.15	14.83	≤30.00	PASS
		2437	14.76	0.18	14.94	≤30.00	PASS
		2462	14.64	0.18	14.82	≤30.00	PASS
11N20SISO	Ant1	2412	13.95	0.19	14.14	≤30.00	PASS
		2437	14.20	0.20	14.40	≤30.00	PASS
		2462	13.97	0.19	14.16	≤30.00	PASS

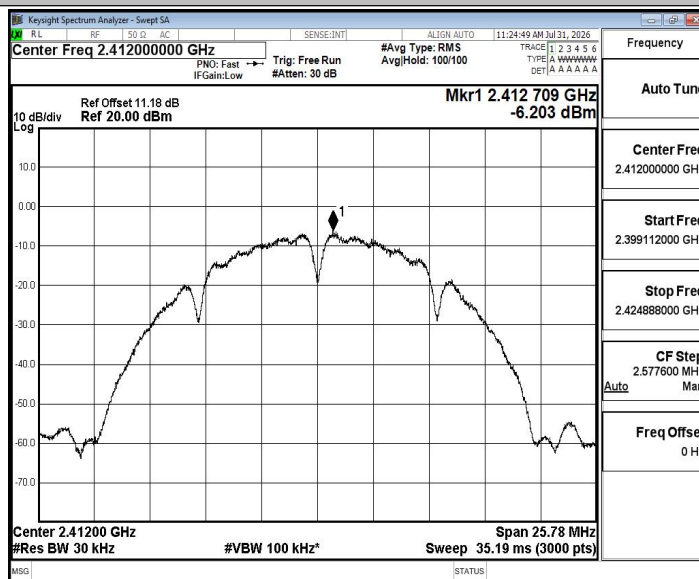
B.3 Maximum power spectral density

Test Result

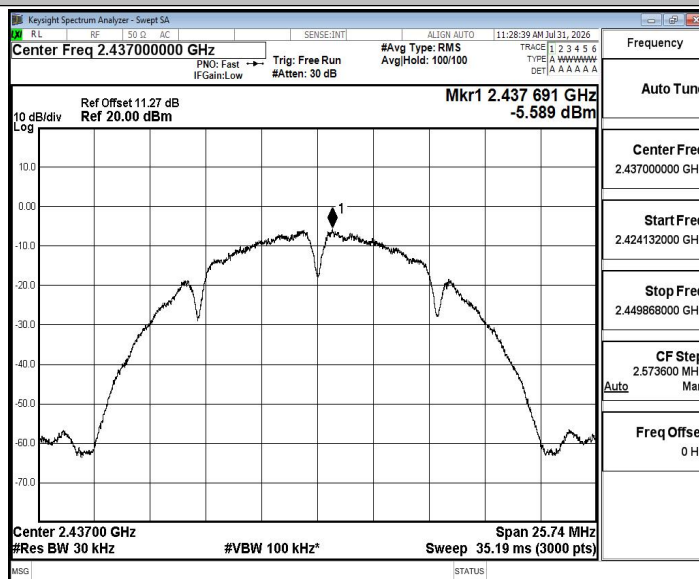
TestMode	Antenna	Frequency [MHz]	Measured PSD [dBm/30kHz]	DC Factor [dB]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-6.2	0.03	-6.17	-16.17	≤8.00	PASS
		2437	-5.59	0.03	-5.56	-15.56	≤8.00	PASS
		2462	-5.78	0.03	-5.75	-15.75	≤8.00	PASS
11G	Ant1	2412	-9.17	0.15	-9.02	-19.02	≤8.00	PASS
		2437	-8.88	0.18	-8.70	-18.70	≤8.00	PASS
		2462	-8.88	0.18	-8.70	-18.70	≤8.00	PASS
11N20SISO	Ant1	2412	-10.16	0.19	-9.97	-19.97	≤8.00	PASS
		2437	-10.02	0.20	-9.82	-19.82	≤8.00	PASS
		2462	-9.68	0.19	-9.49	-19.49	≤8.00	PASS

Test Graphs

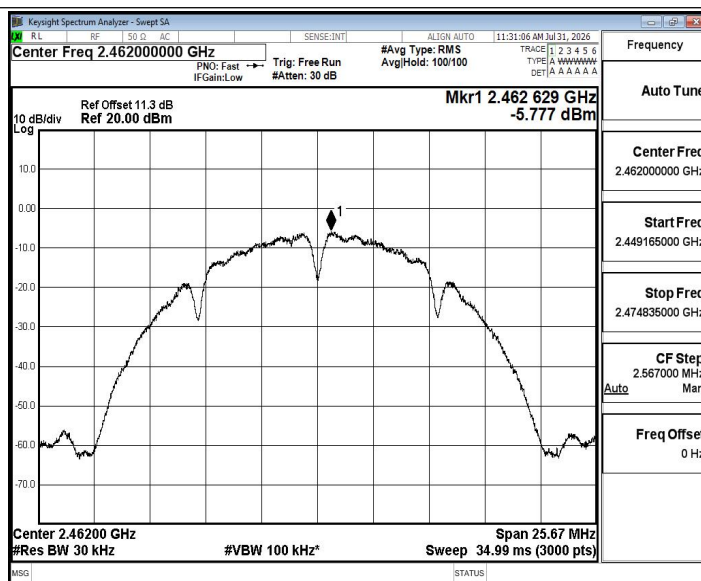
11B_Ant1_2412



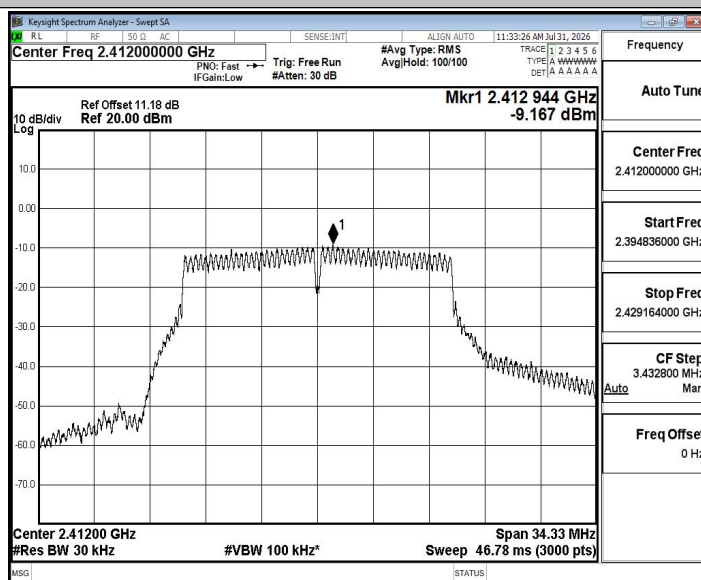
11B_Ant1_2437



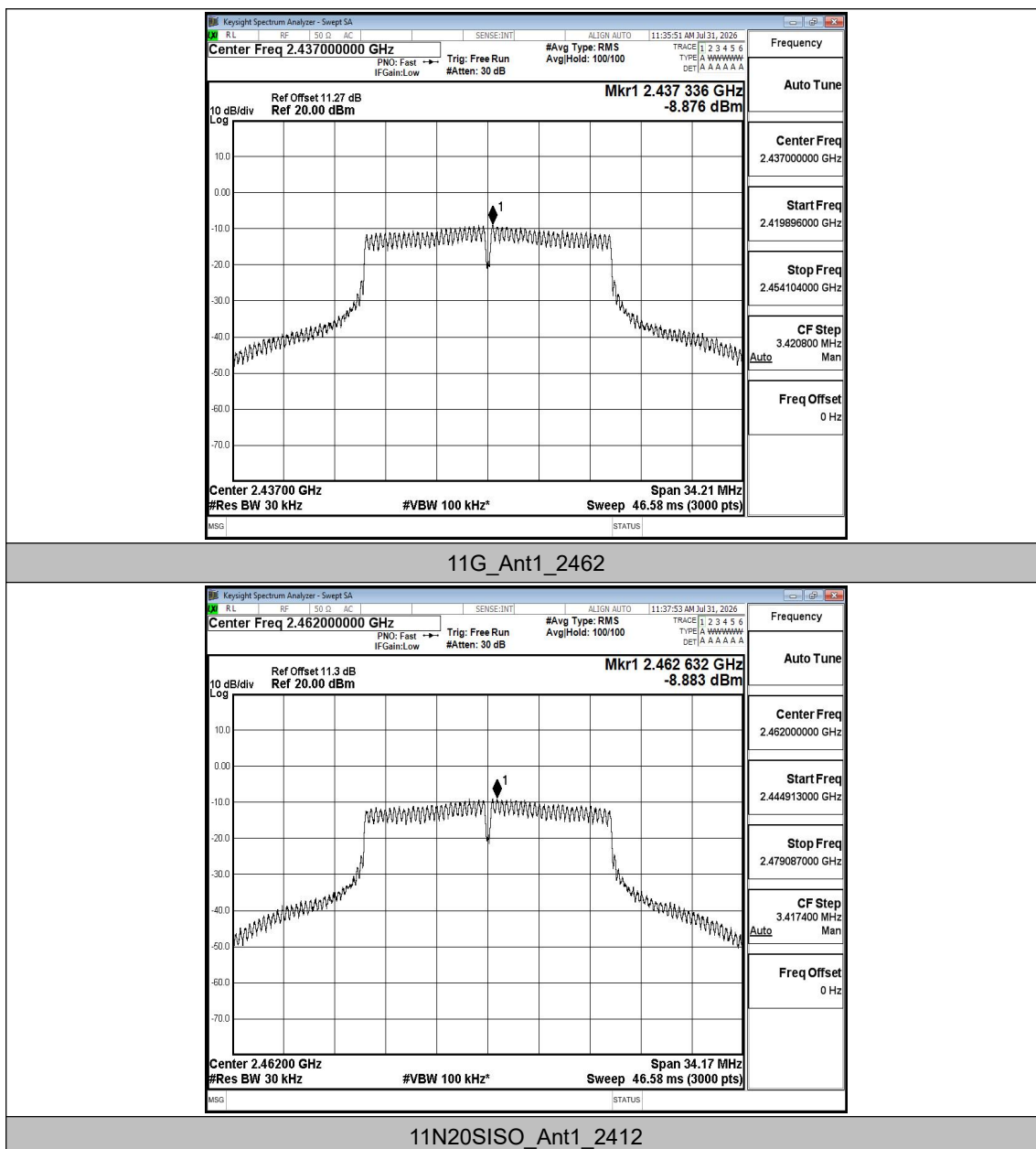
11B_Ant1_2462

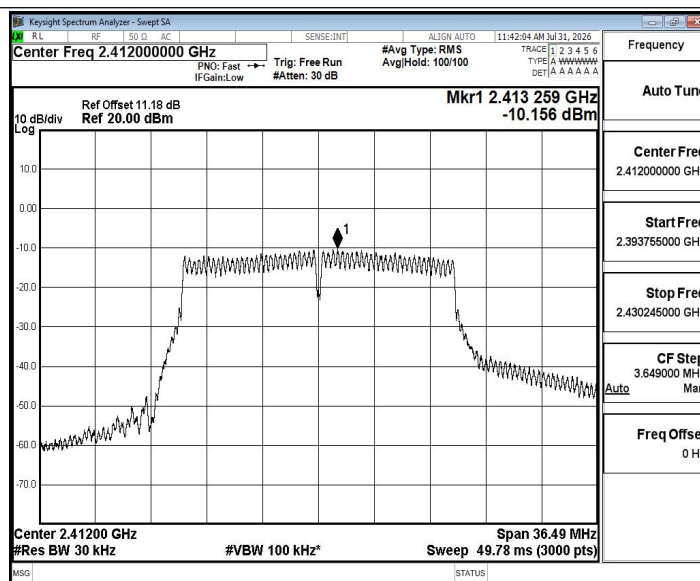


11G_Ant1_2412

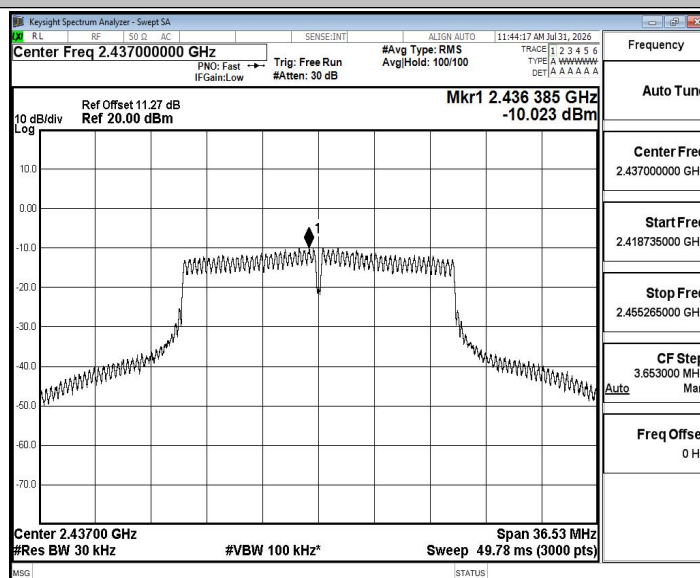


11G_Ant1_2437

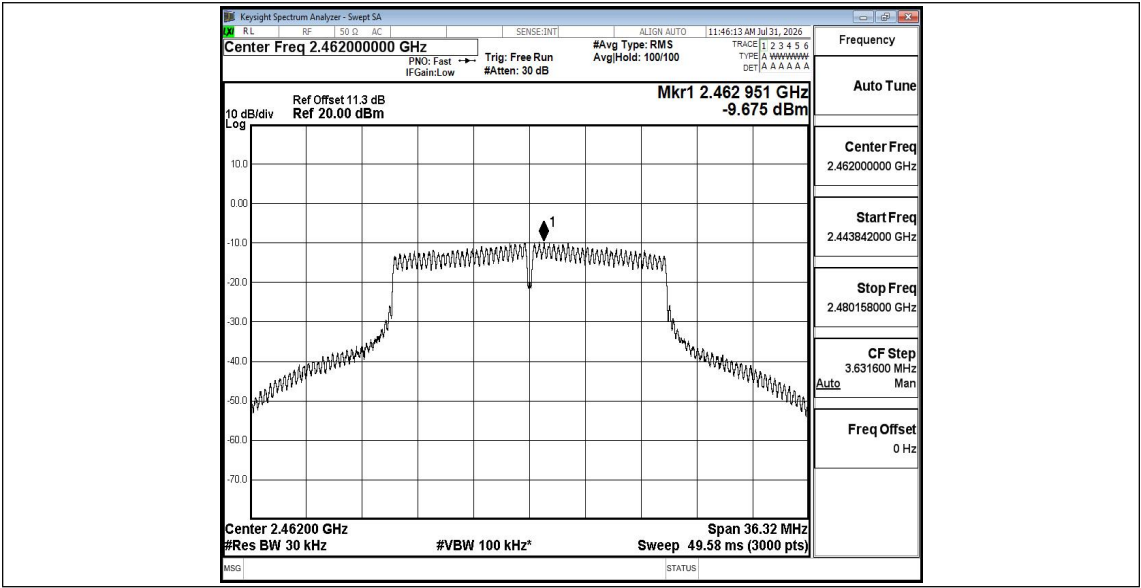




11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

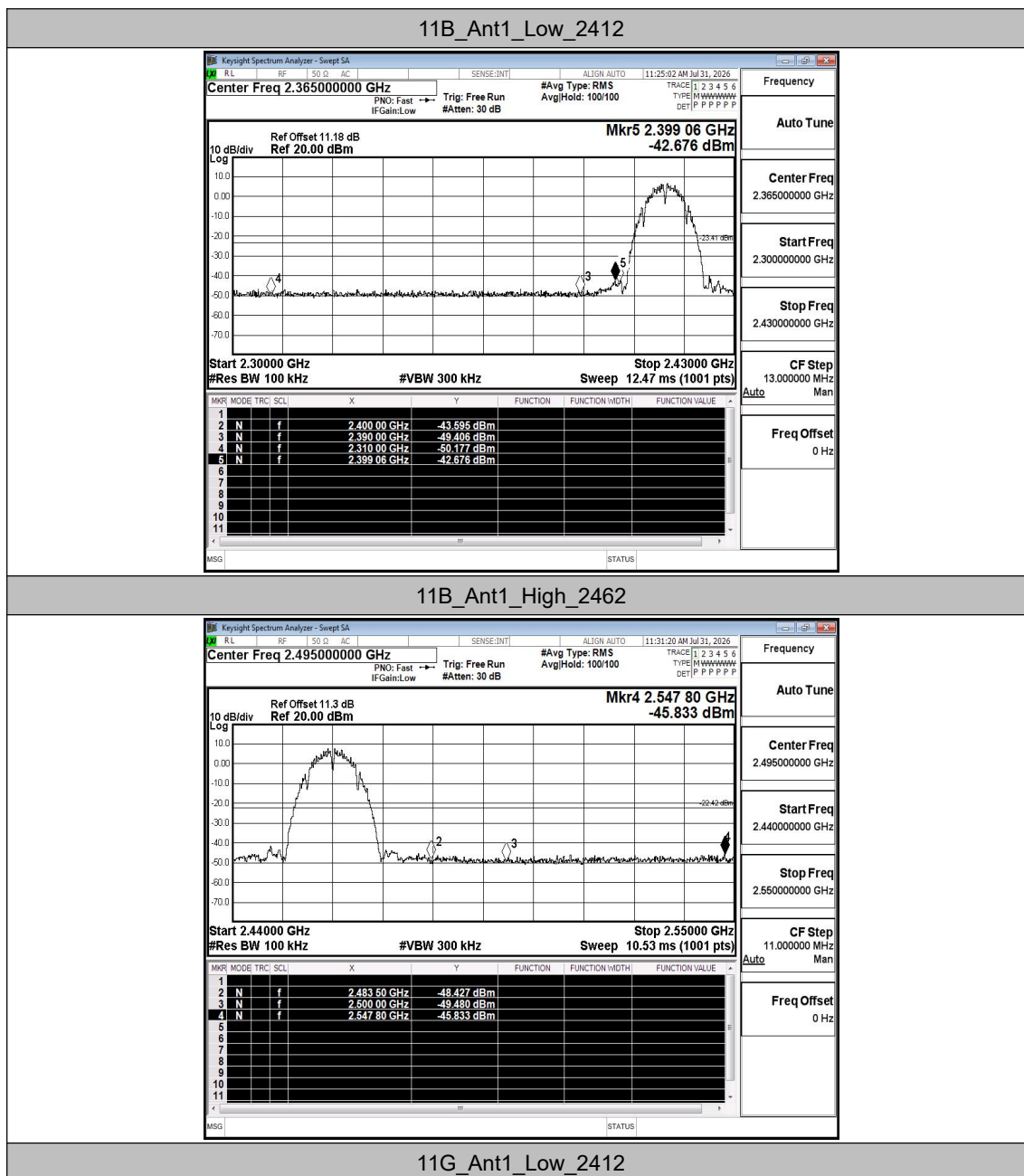


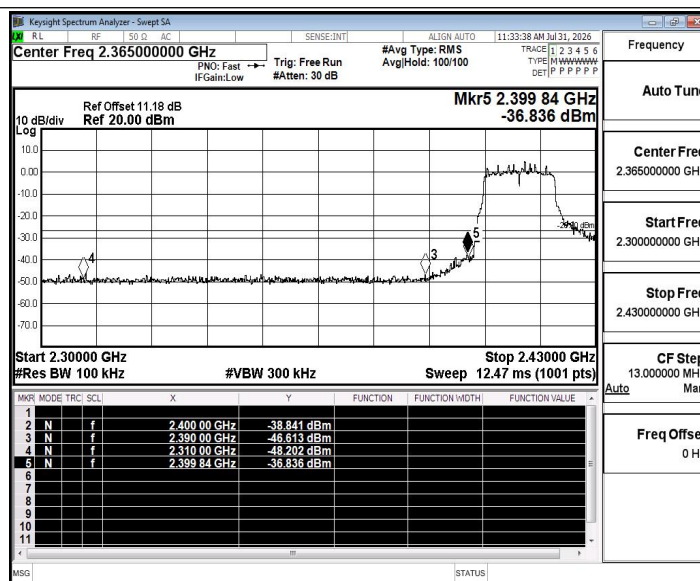
B.4 Band edge measurements

Test Result

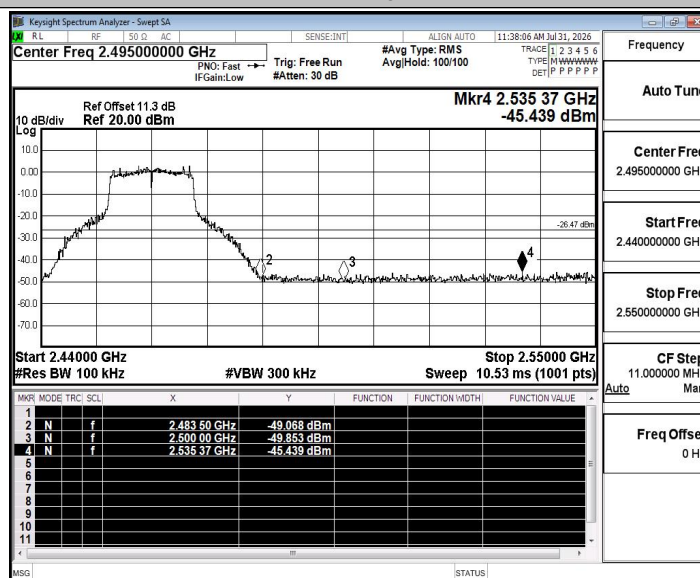
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.59	-42.68	≤-23.41	PASS
		High	2462	7.58	-45.83	≤-22.42	PASS
11G	Ant1	Low	2412	3.10	-36.84	≤-26.9	PASS
		High	2462	3.53	-45.44	≤-26.47	PASS
11N20SISO	Ant1	Low	2412	4.18	-37.9	≤-25.82	PASS
		High	2462	3.09	-45.36	≤-26.91	PASS

Test Graphs

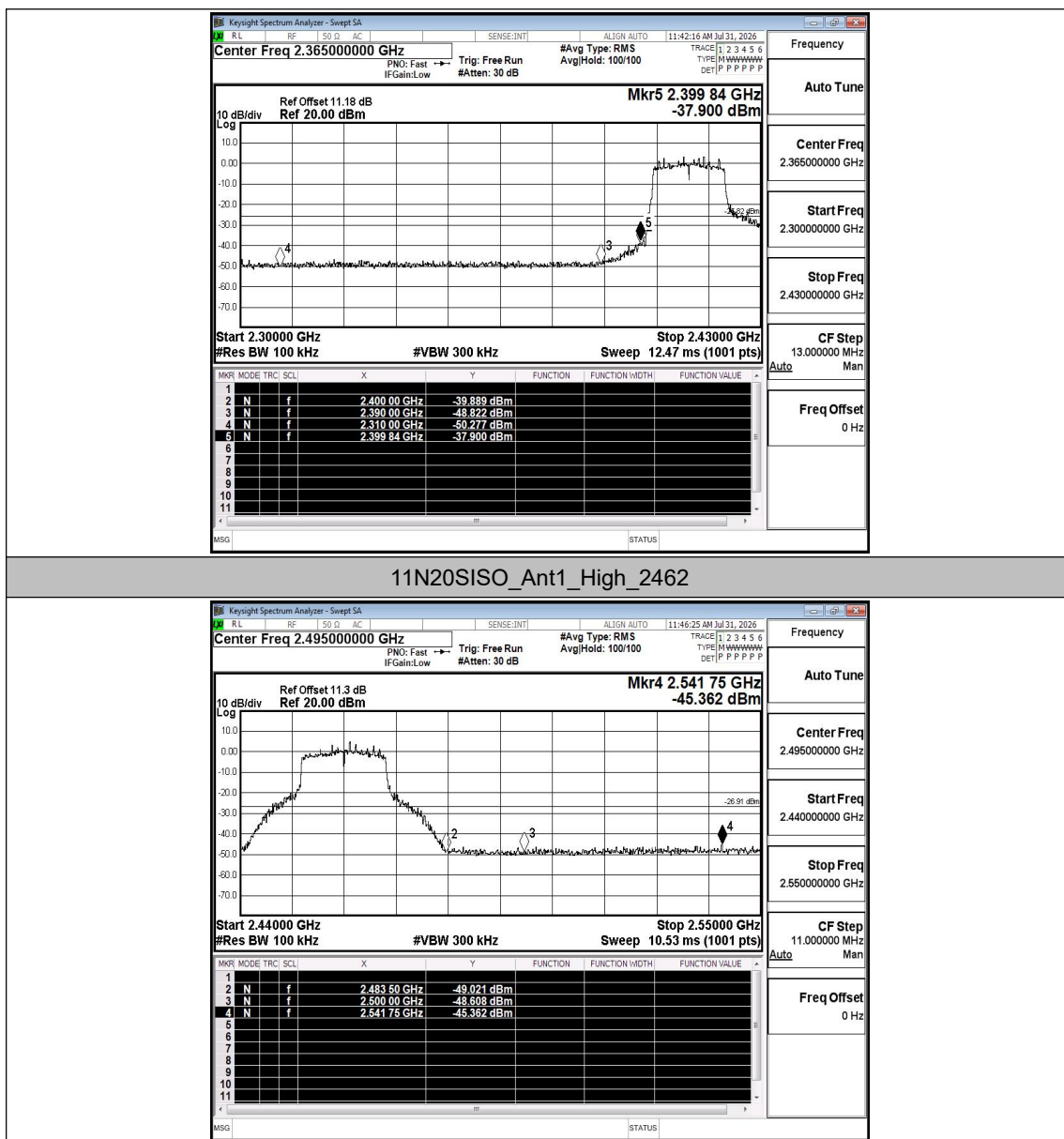




11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

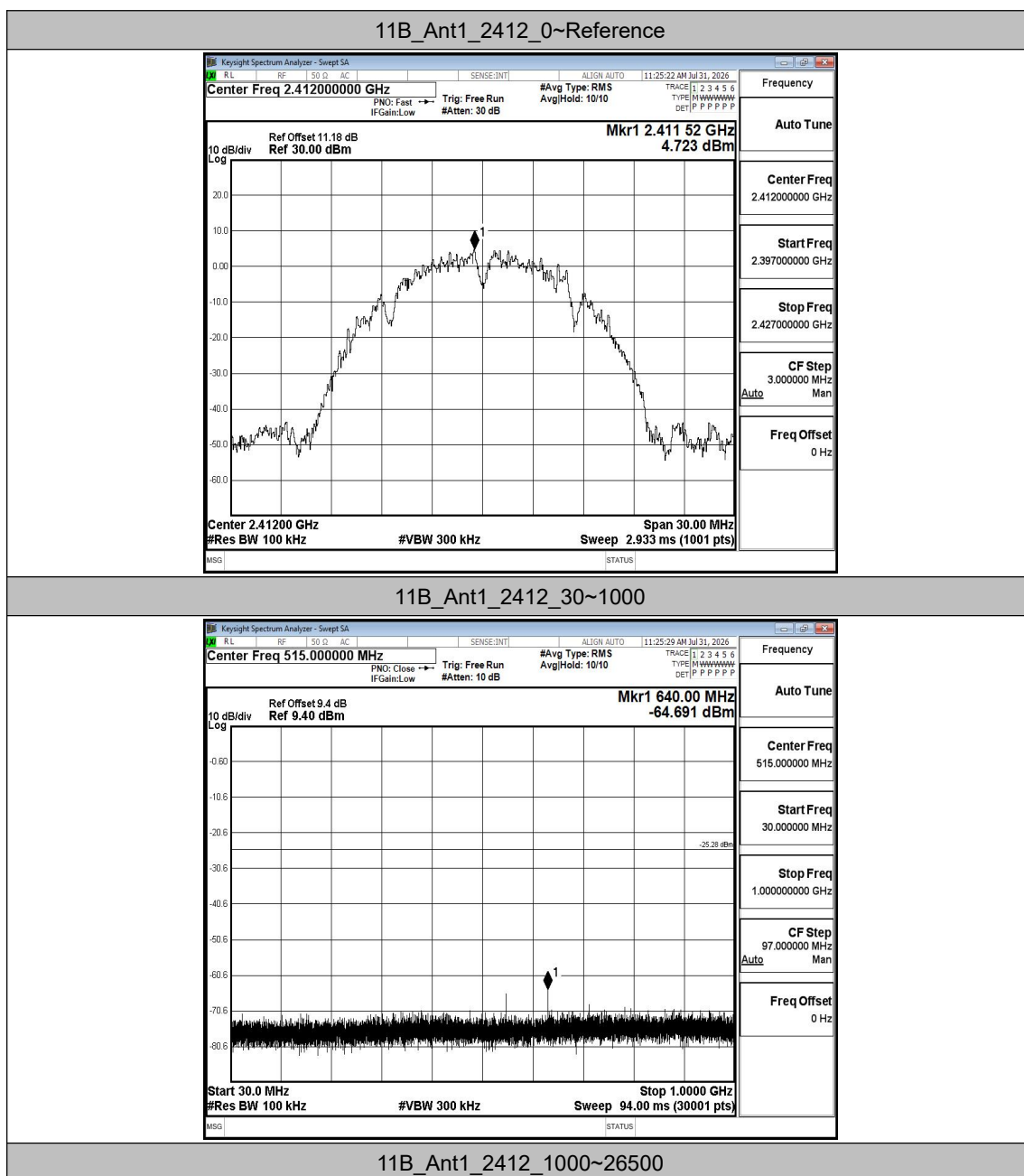


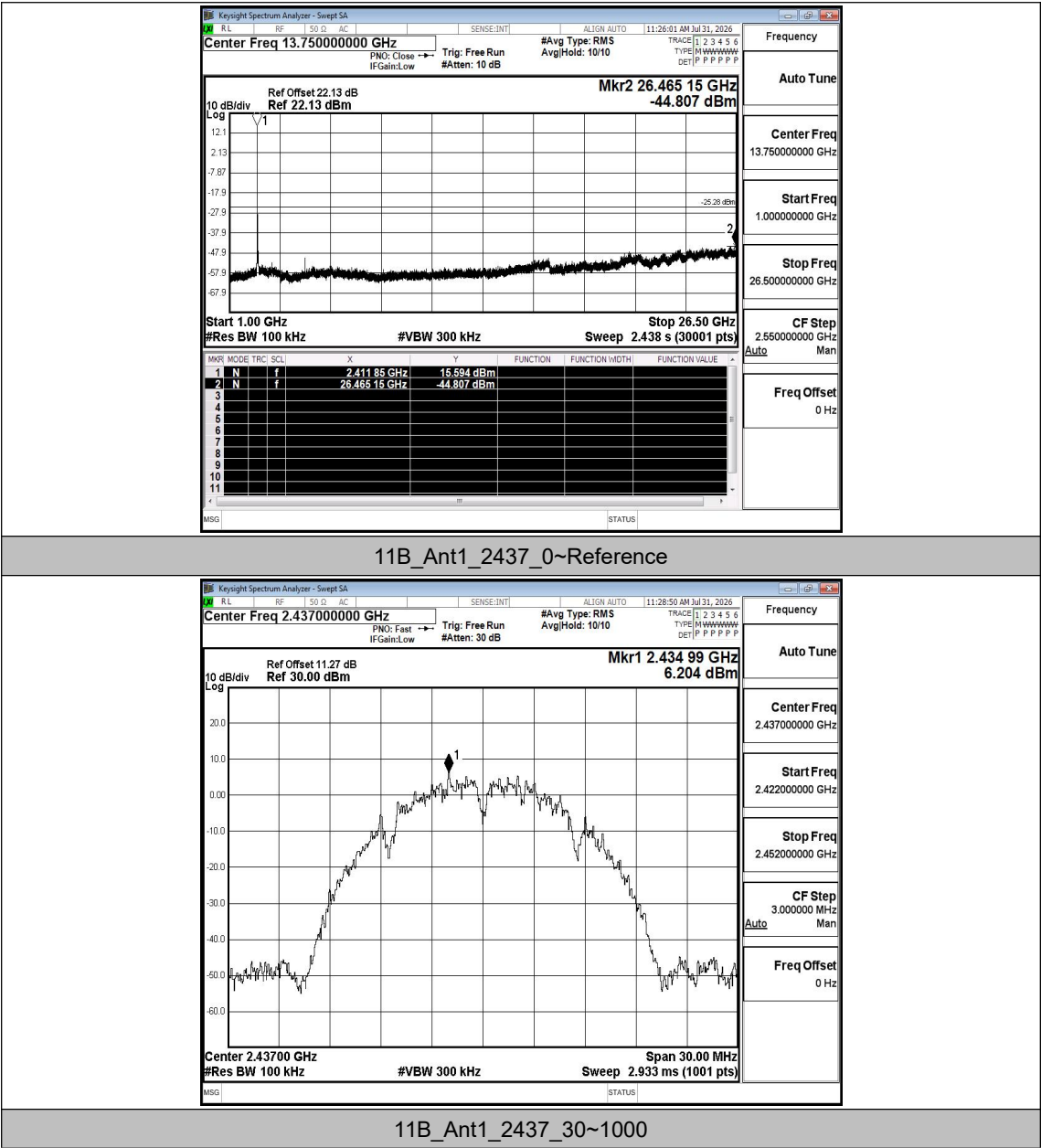
B.5 Conducted Spurious Emission

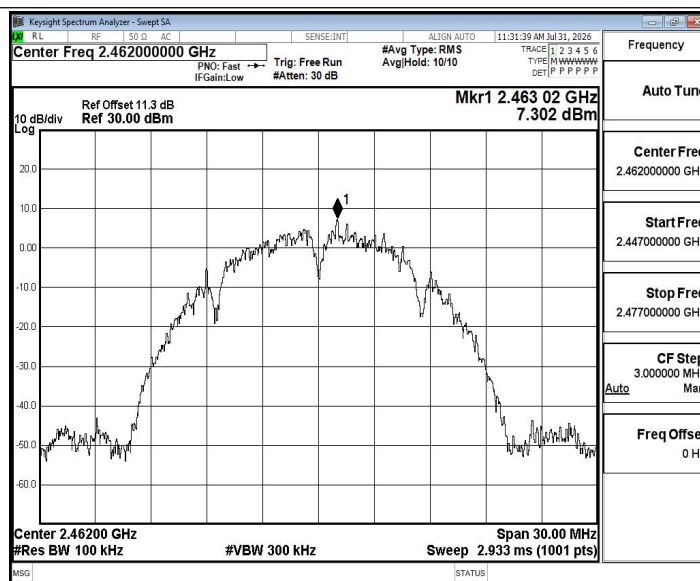
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.72	4.72	---	PASS
			30~1000	4.72	-64.69	≤-25.28	PASS
			1000~26500	4.72	-44.81	≤-25.28	PASS
		2437	Reference	6.20	6.20	---	PASS
			30~1000	6.20	-65.12	≤-23.8	PASS
			1000~26500	6.20	-44.42	≤-23.8	PASS
		2462	Reference	7.30	7.30	---	PASS
			30~1000	7.30	-64.96	≤-22.7	PASS
			1000~26500	7.30	-43.46	≤-22.7	PASS
11G	Ant1	2412	Reference	3.21	3.21	---	PASS
			30~1000	3.21	-64.86	≤-26.79	PASS
			1000~26500	3.21	-44.6	≤-26.79	PASS
		2437	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-65.36	≤-26.81	PASS
			1000~26500	3.19	-45.01	≤-26.81	PASS
		2462	Reference	2.94	2.94	---	PASS
			30~1000	2.94	-64.8	≤-27.06	PASS
			1000~26500	2.94	-44.3	≤-27.06	PASS
11N20SISO	Ant1	2412	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-65.21	≤-27.42	PASS
			1000~26500	2.58	-44.27	≤-27.42	PASS
		2437	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-66.23	≤-27.85	PASS
			1000~26500	2.15	-43.99	≤-27.85	PASS
		2462	Reference	4.08	4.08	---	PASS
			30~1000	4.08	-64.81	≤-25.92	PASS
			1000~26500	4.08	-43.81	≤-25.92	PASS

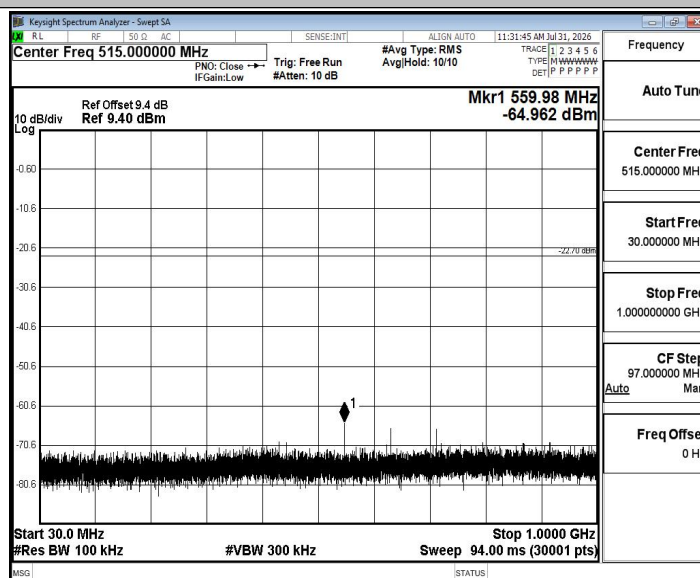
Test Graphs







11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

