



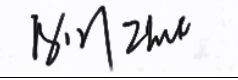
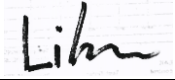
Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Dash cam

Test Model: INNOVV K3

Environmental Conditions

Temperature:	21.1° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	
Supervised by:	

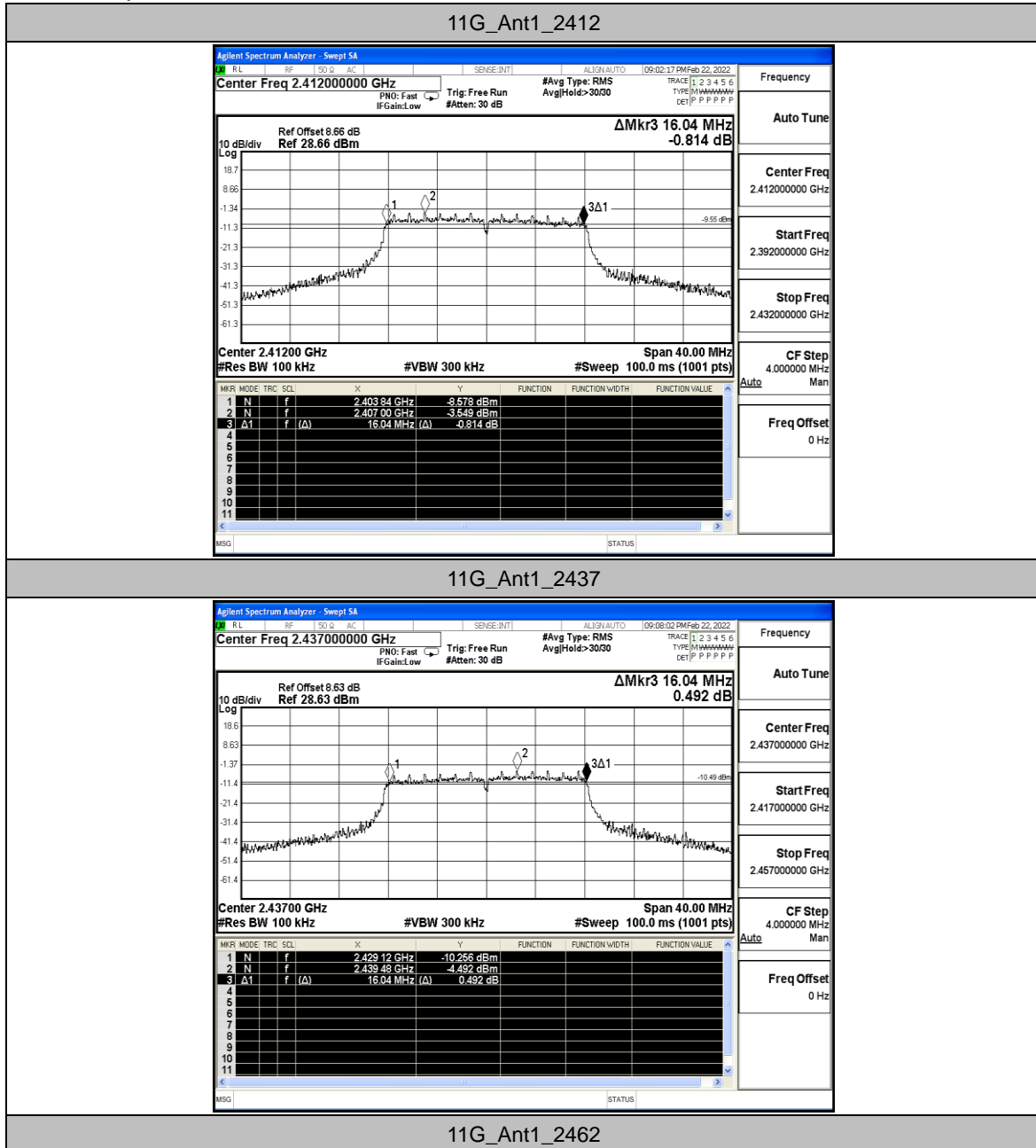


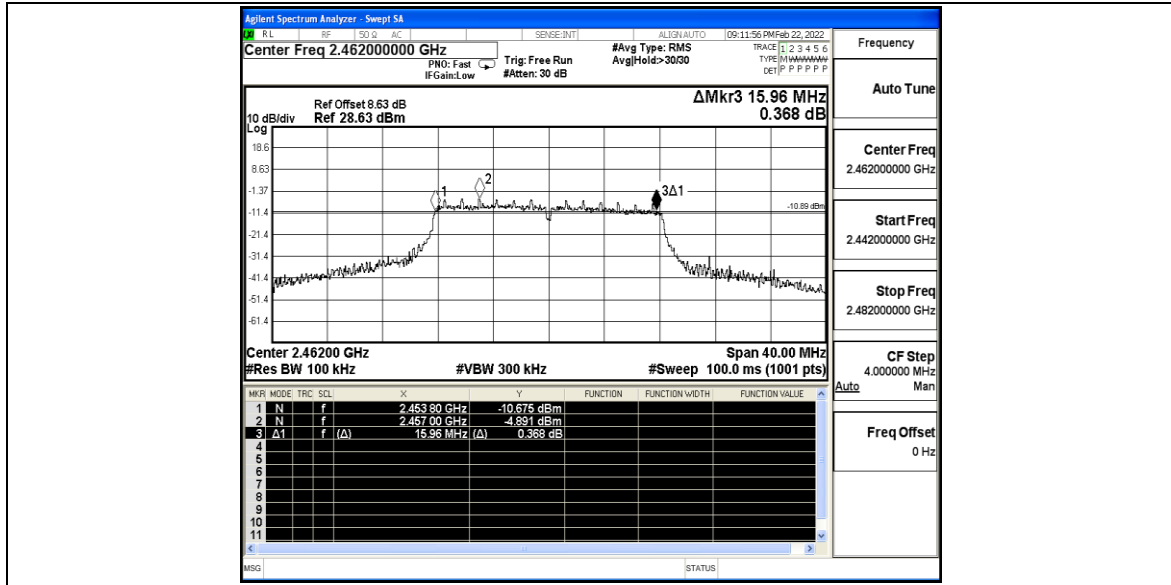
A.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11G	Ant1	2412	16.040	2403.840	2419.880	0.5	PASS
		2437	16.040	2429.120	2445.160	0.5	PASS
		2462	15.960	2453.800	2469.760	0.5	PASS

Test Graphs







A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11G	Ant1	2412	15.67	≤30.00	PASS
		2437	14.39	≤30.00	PASS
		2462	14.12	≤30.00	PASS

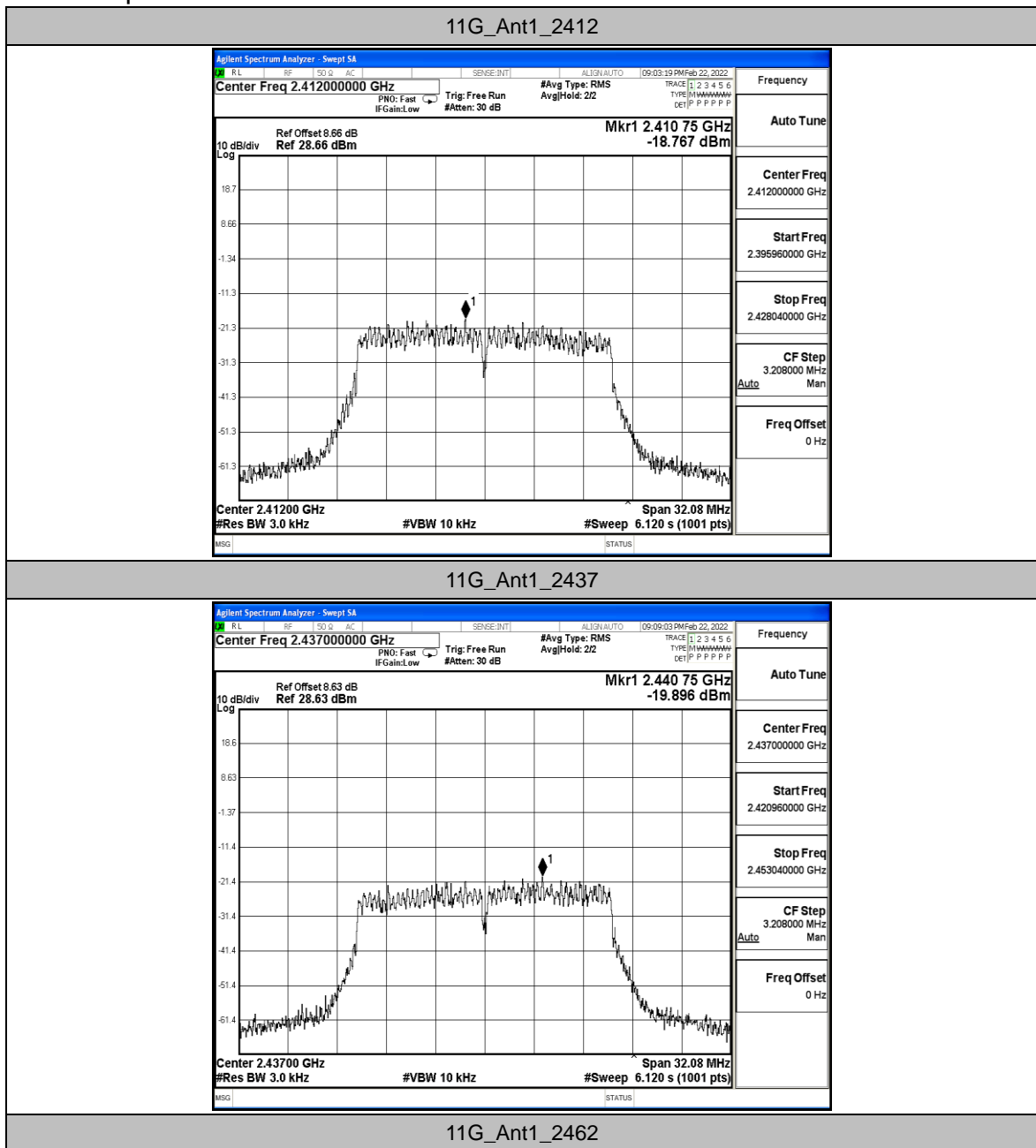


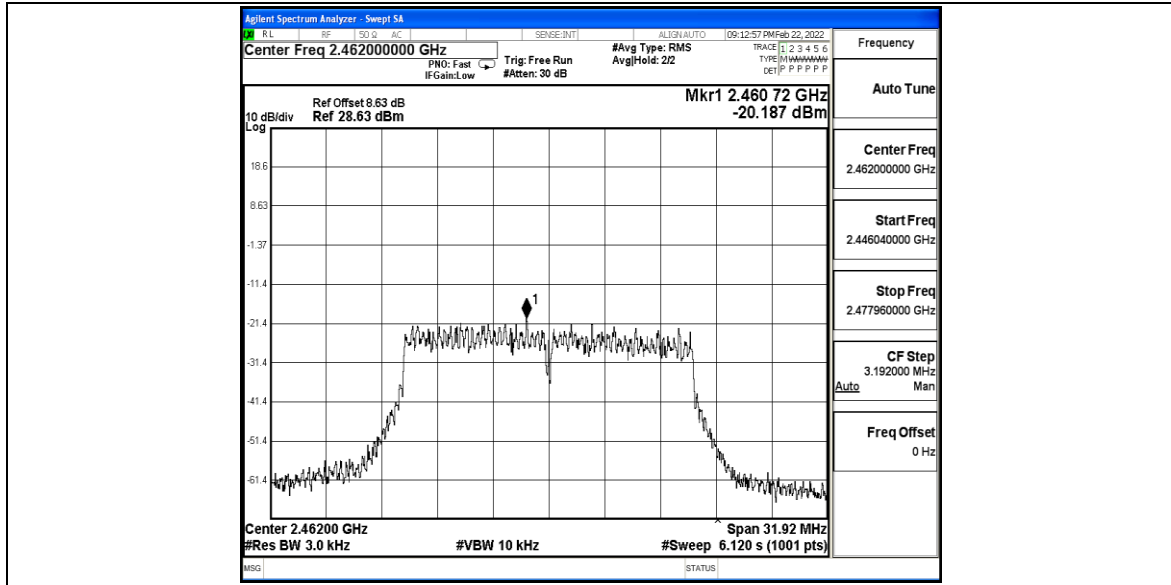
A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11G	Ant1	2412	-18.77	≤8.00	PASS
		2437	-19.9	≤8.00	PASS
		2462	-20.19	≤8.00	PASS

Test Graphs





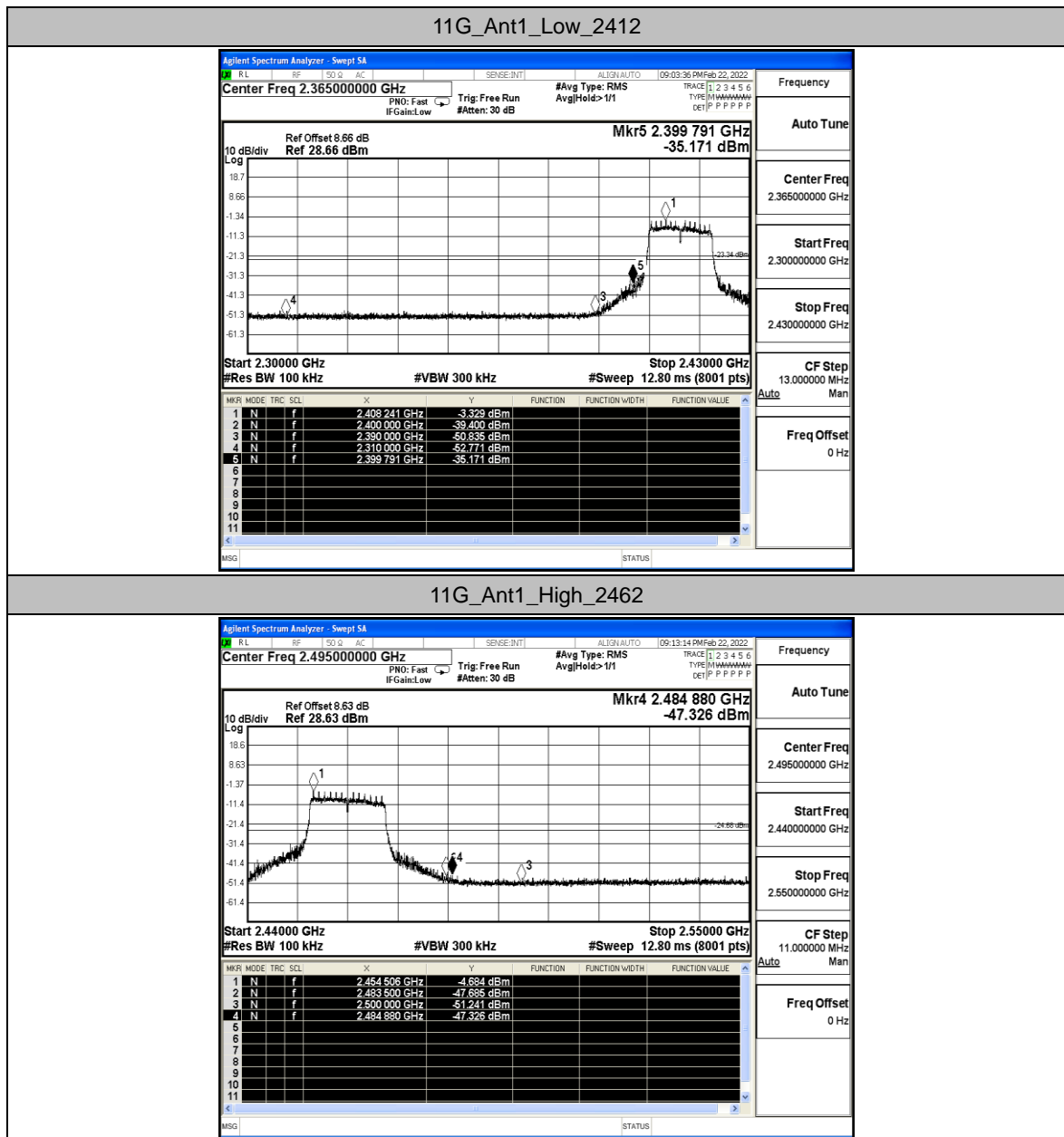


A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11G	Ant1	Low	2412	-3.34	-35.17	≤-23.34	PASS
		High	2462	-4.68	-47.33	≤-24.68	PASS

Test Graphs



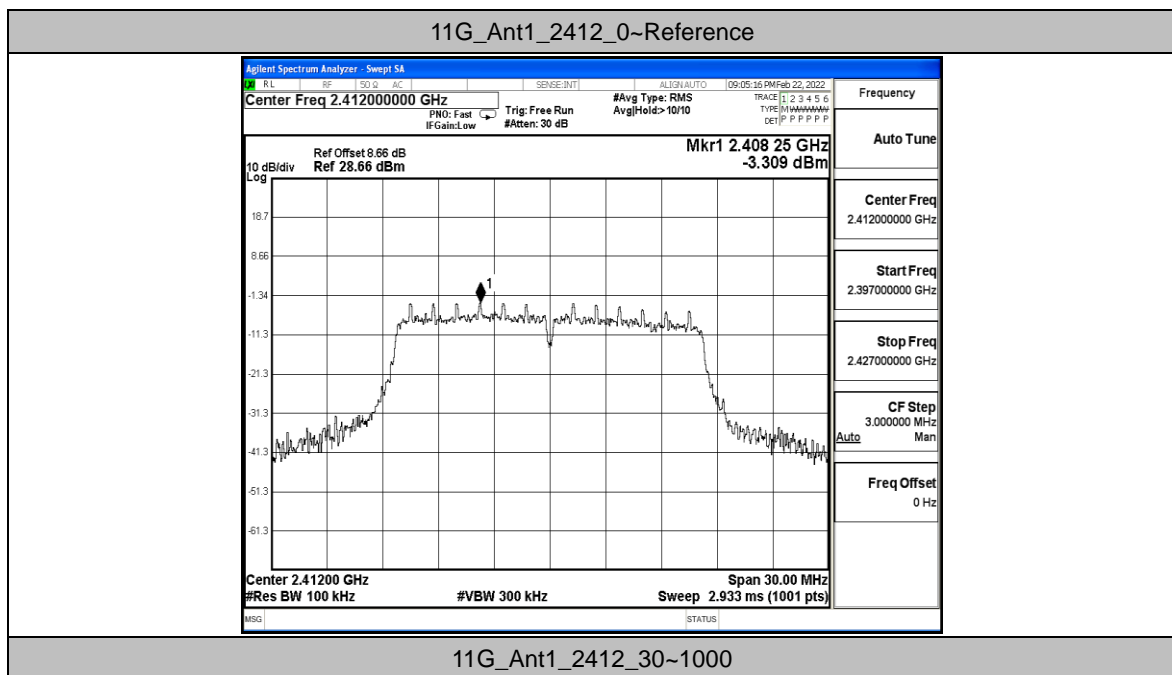


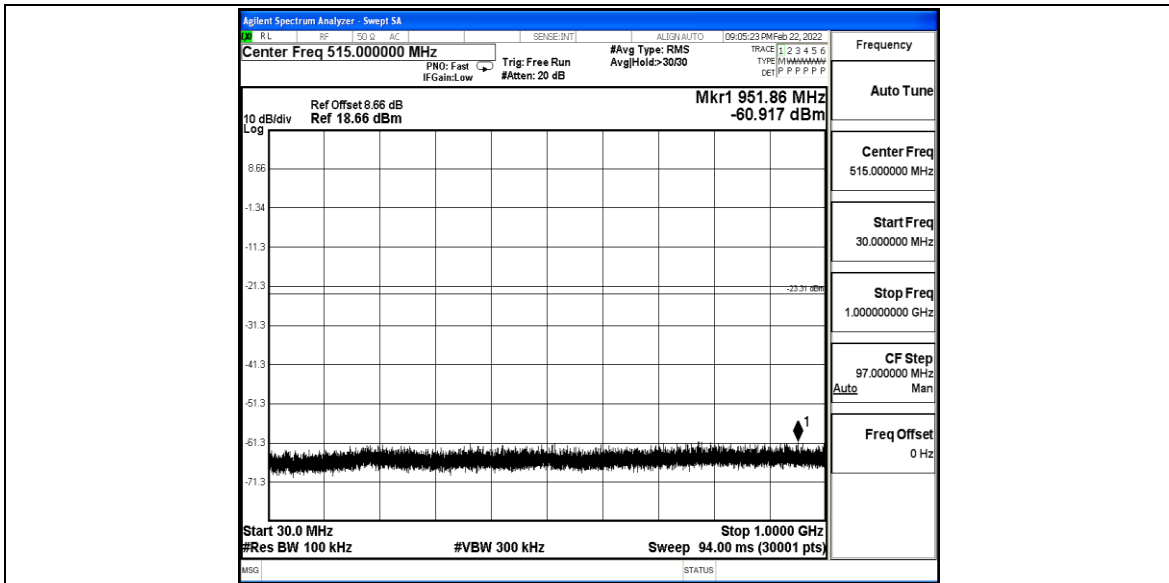
A.5 Conducted Spurious Emission

Test Result

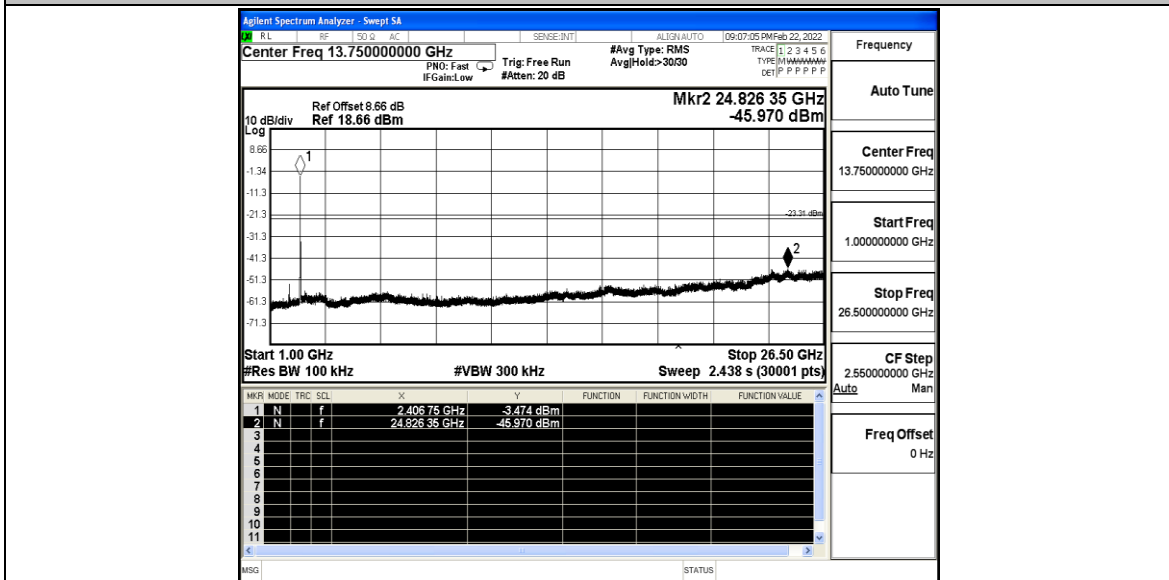
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11G	Ant1	2412	Reference	-3.31	-3.31	---	PASS
			30~1000	-3.31	-60.92	≤-23.31	PASS
			1000~26500	-3.31	-45.97	≤-23.31	PASS
		2437	Reference	-4.31	-4.31	---	PASS
			30~1000	-4.31	-60.57	≤-24.31	PASS
			1000~26500	-4.31	-46.04	≤-24.31	PASS
		2462	Reference	-4.58	-4.58	---	PASS
			30~1000	-4.58	-59.6	≤-24.58	PASS
			1000~26500	-4.58	-46.3	≤-24.58	PASS

Test Graphs

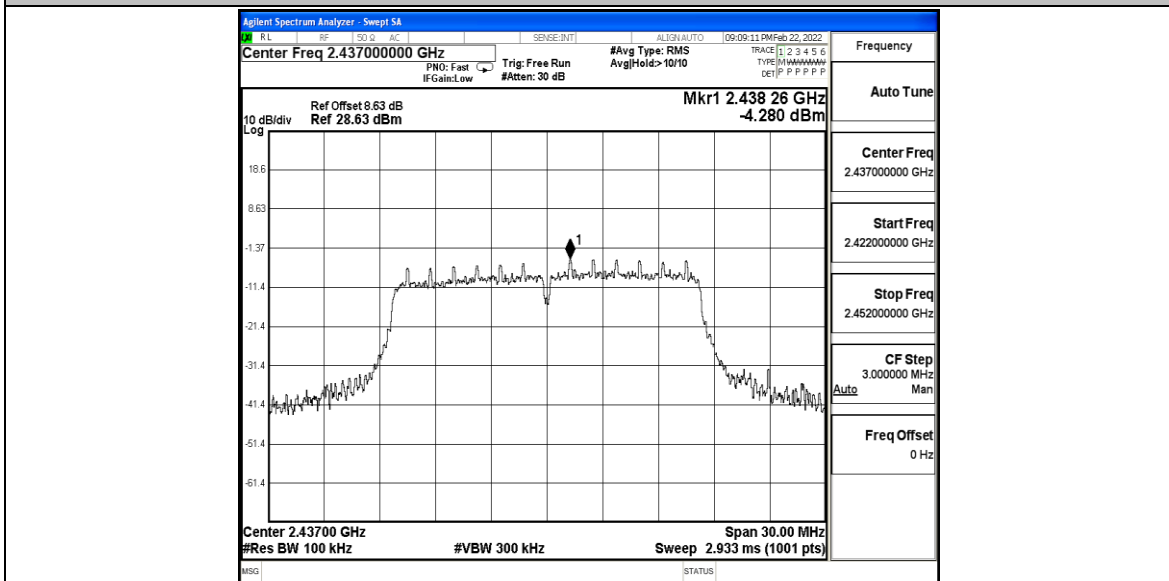




11G_Ant1_2412_1000~26500

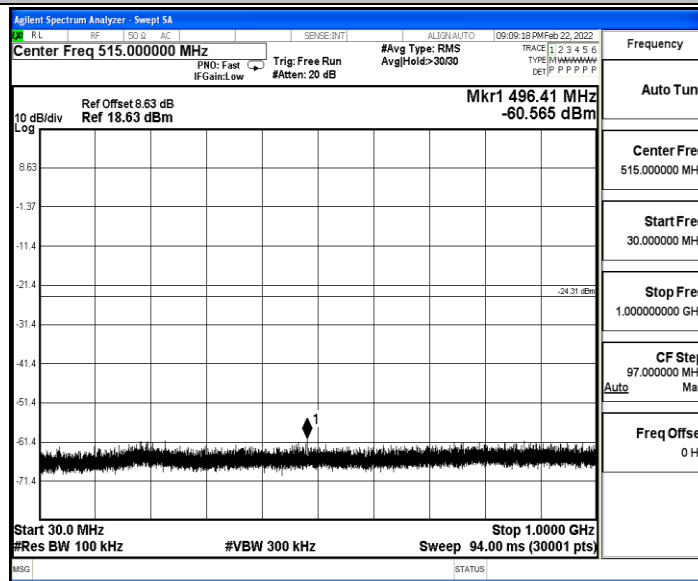


11G_Ant1_2437_0~Reference

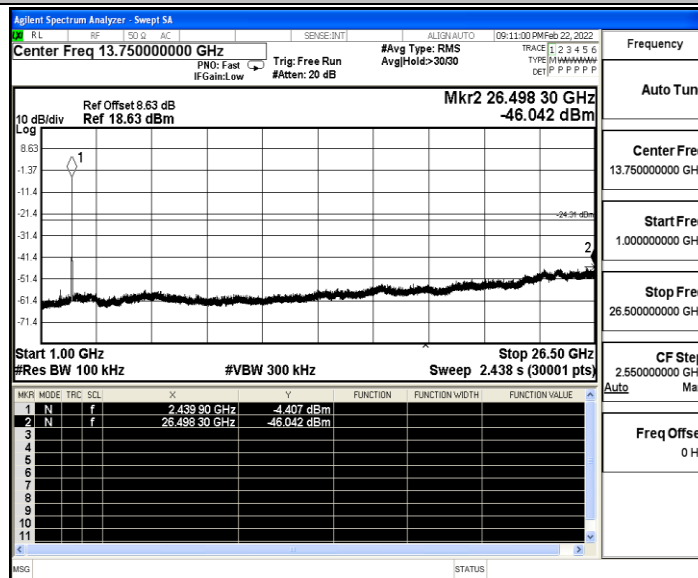




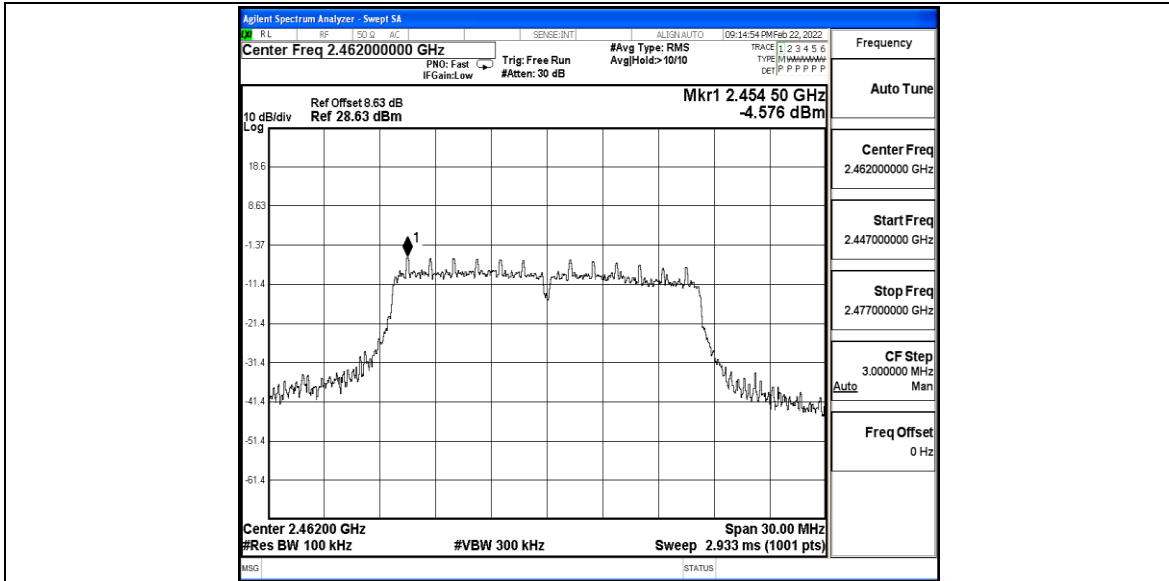
11G_Ant1_2437_30~1000



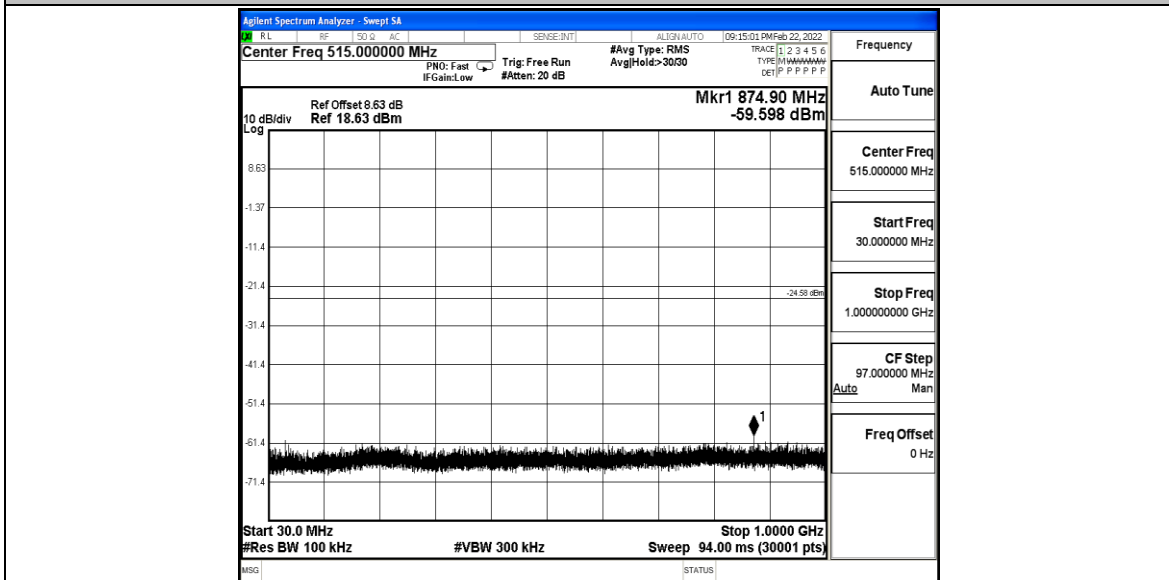
11G_Ant1_2437_1000~26500



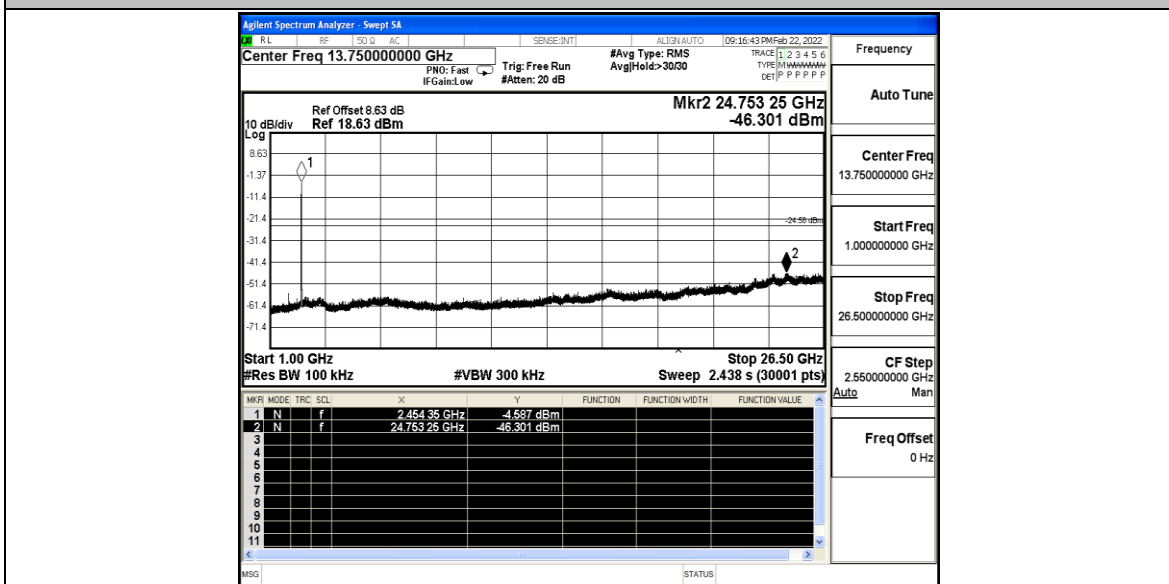
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



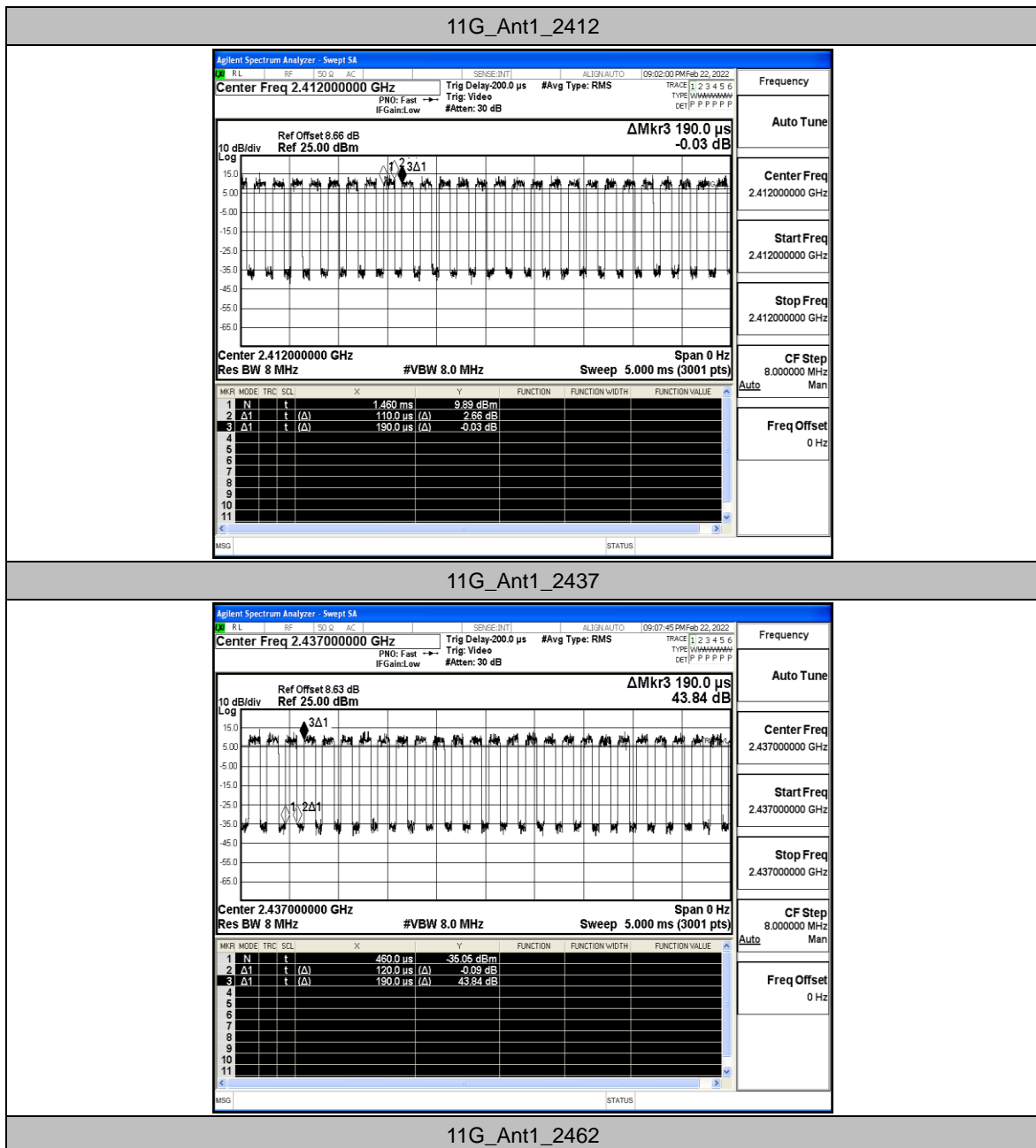


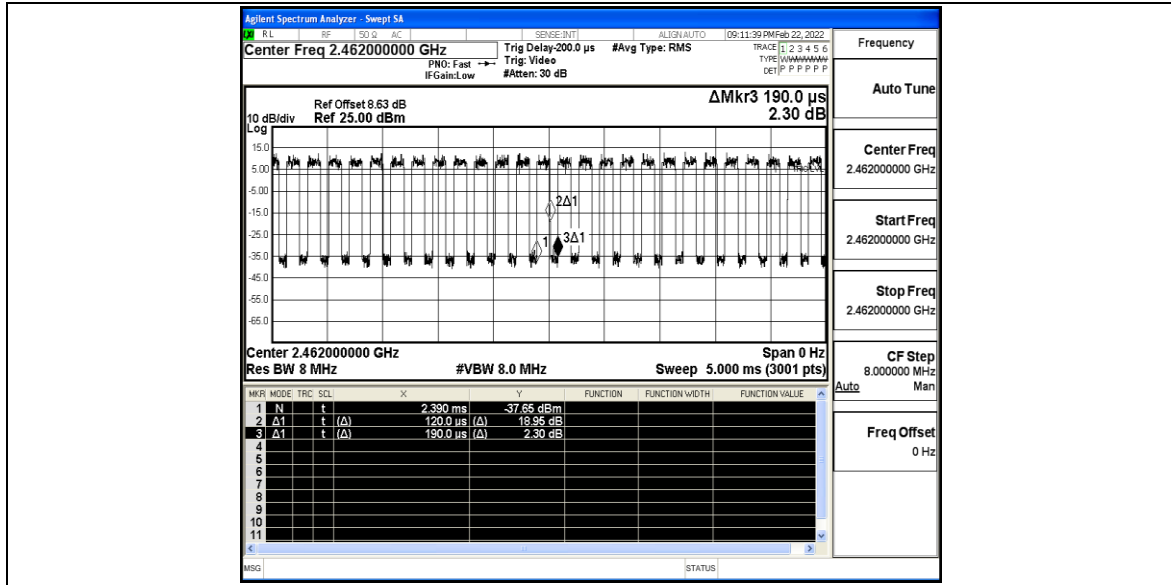
A.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11G	Ant1	2412	0.11	0.19	57.89	---	---
		2437	0.12	0.19	63.16	---	---
		2462	0.12	0.19	63.16	---	---

Test Graphs







A.7 Emissions in Restricted Bands

Test Result

TestMode	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11G	Low	2412	AV	2310.000	-47.08	≤-41.20	48.12	≤54	PASS
			AV	2389.960	-43.56	≤-41.20	51.64	≤54	PASS
			AV	2390.000	-43.56	≤-41.20	51.64	≤54	PASS
			Peak	2310.000	-37.79	≤-21.20	57.41	≤74	PASS
			Peak	2389.440	-32	≤-21.20	63.20	≤74	PASS
			Peak	2390.000	-33.9	≤-21.20	61.30	≤74	PASS
	High	2462	AV	2483.500	-42.12	≤-41.20	53.08	≤54	PASS
			AV	2483.890	-42.18	≤-41.20	53.02	≤54	PASS
			AV	2500.000	-46.28	≤-41.20	48.92	≤54	PASS
			Peak	2483.500	-29.4	≤-21.20	65.80	≤74	PASS
			Peak	2483.560	-29.15	≤-21.20	66.05	≤74	PASS
			Peak	2500.000	-37.07	≤-21.20	58.13	≤74	PASS

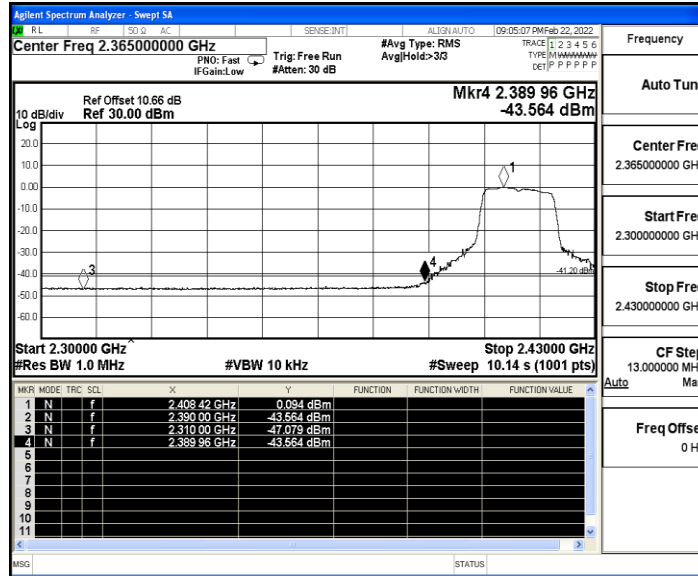
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

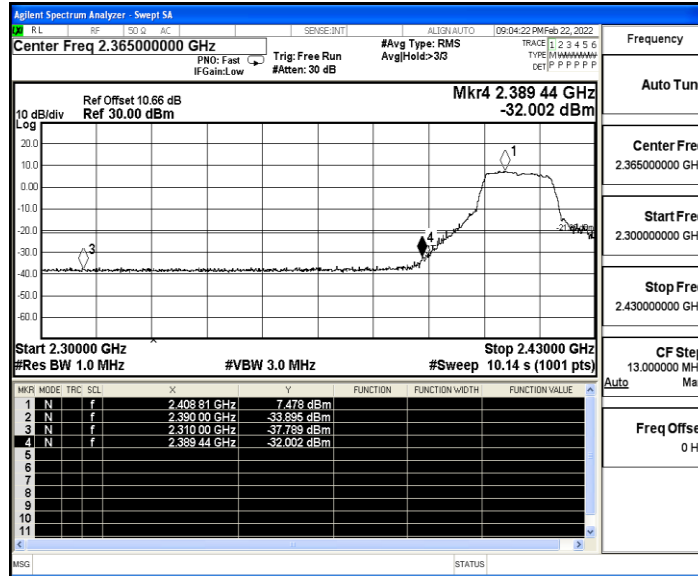


Test Graphs

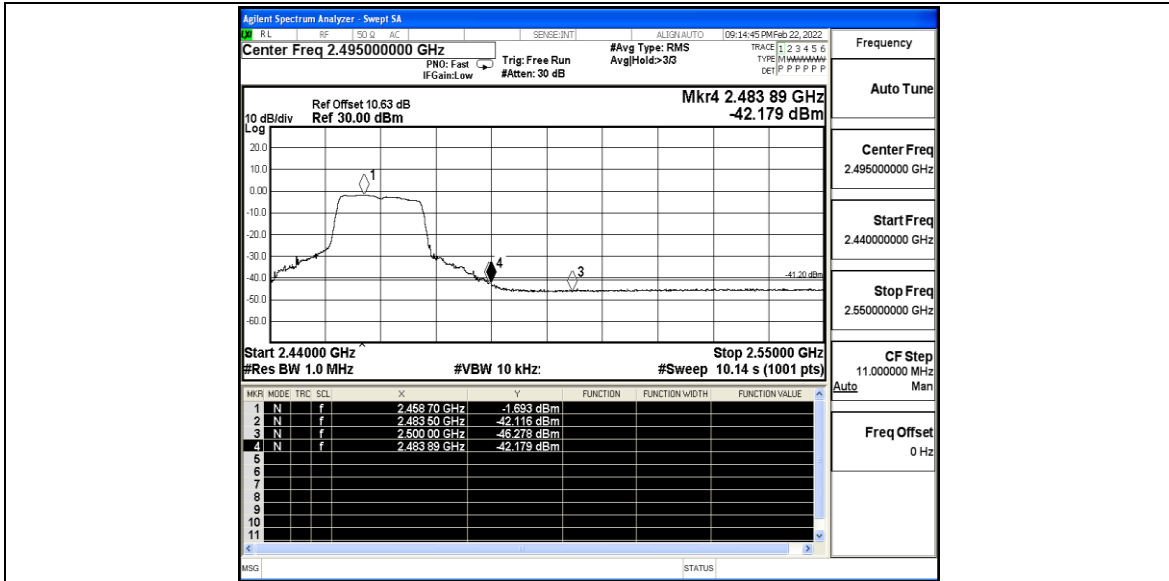
11G_Ant1_Low_2412_AV



11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



11G_Ant1_High_2462_Peak

