



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Tablet pc

Test Model: RE667-PRO

Environmental Conditions

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



A.1 6dB Bandwidth

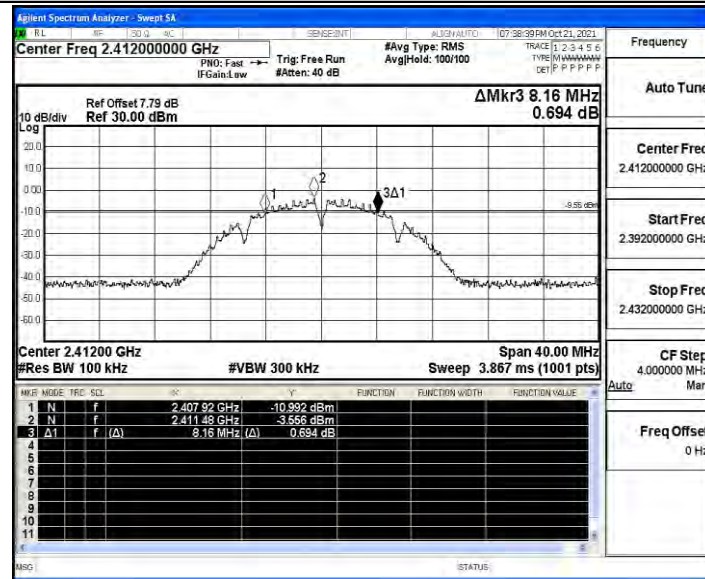
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.160	2407.920	2416.080	0.5	PASS
		2437	7.680	2433.400	2441.080	0.5	PASS
		2462	9.120	2457.440	2466.560	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.200	2420.840	0.5	PASS
		2437	17.640	2428.200	2445.840	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.000	2439.600	0.5	PASS
		2437	35.680	2419.160	2454.840	0.5	PASS
		2452	35.840	2434.000	2469.840	0.5	PASS

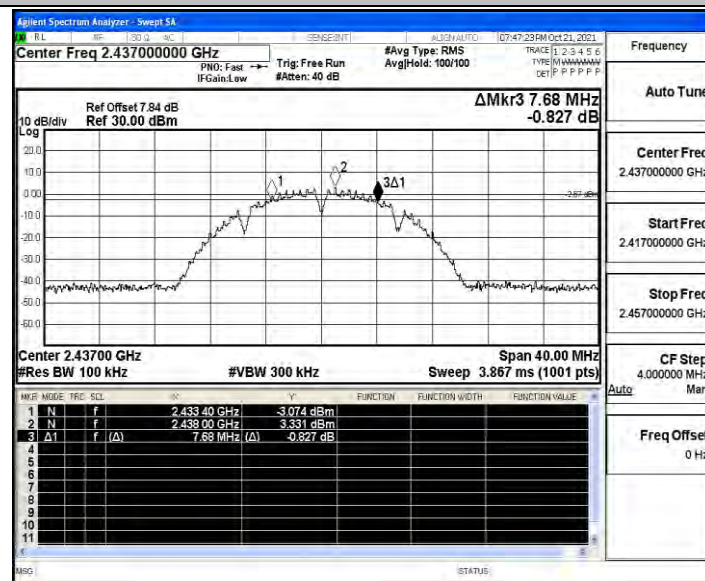


Test Graphs

11B_Ant1_2412

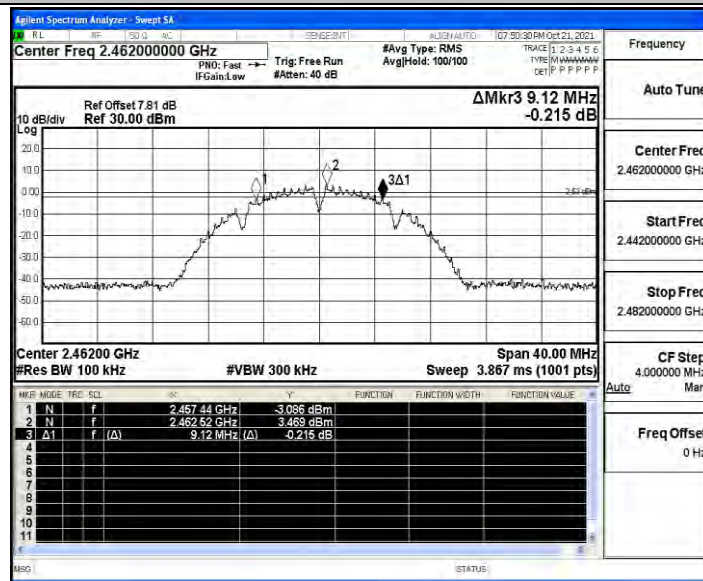


11B_Ant1_2437

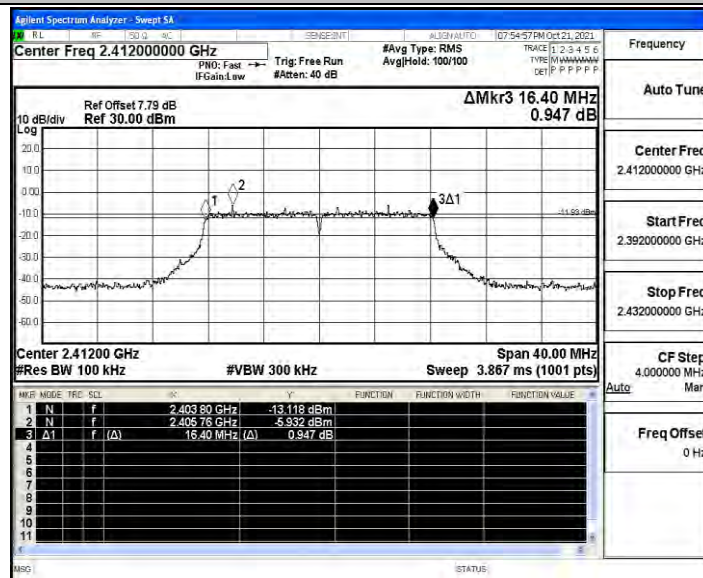




11B_Ant1_2462

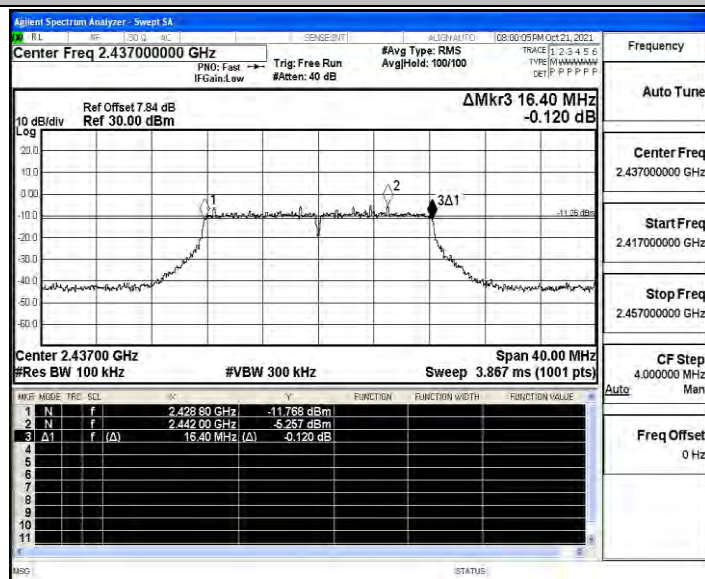


11G_Ant1_2412

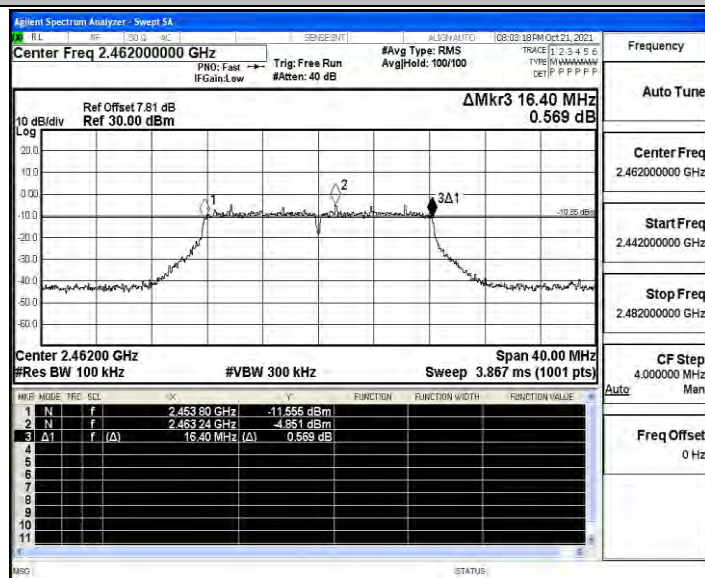




11G_Ant1_2437

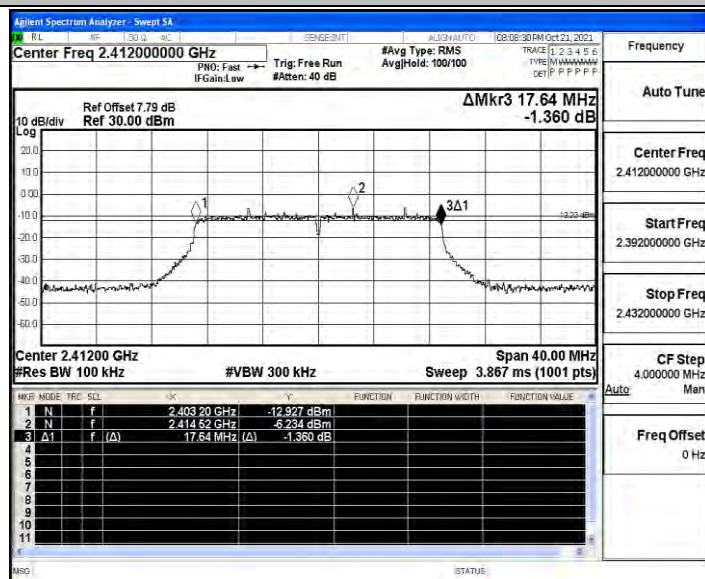


11G_Ant1_2462

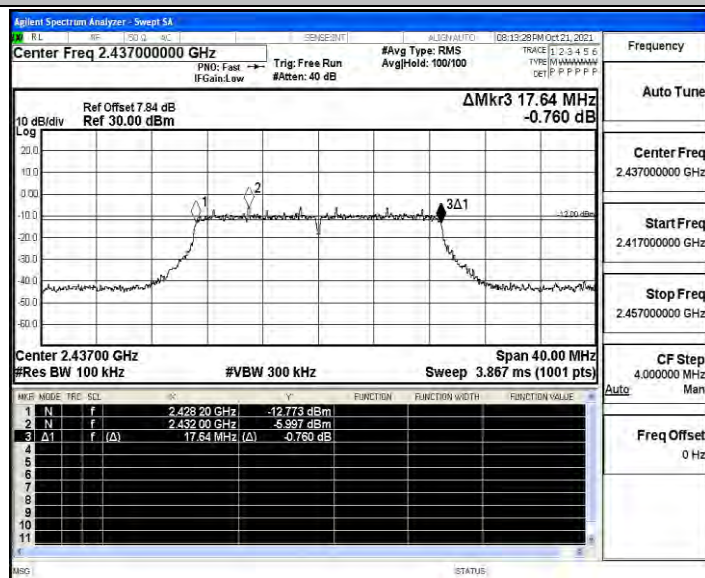




11N20SISO_Ant1_2412

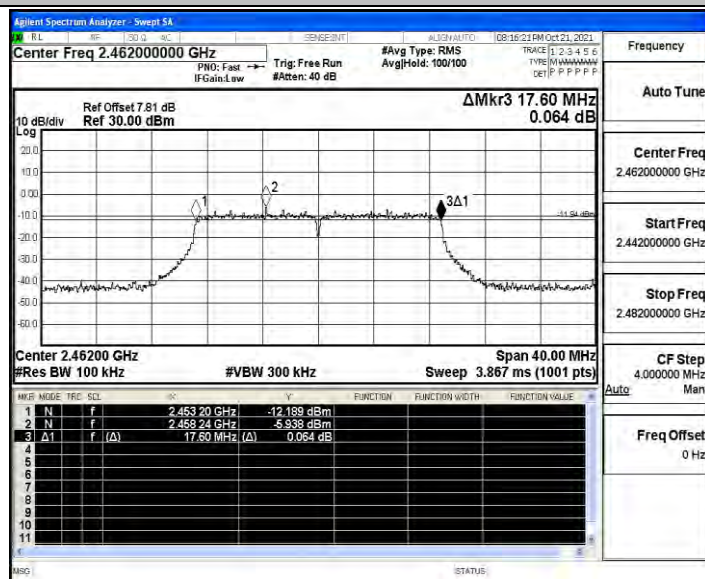


11N20SISO_Ant1_2437

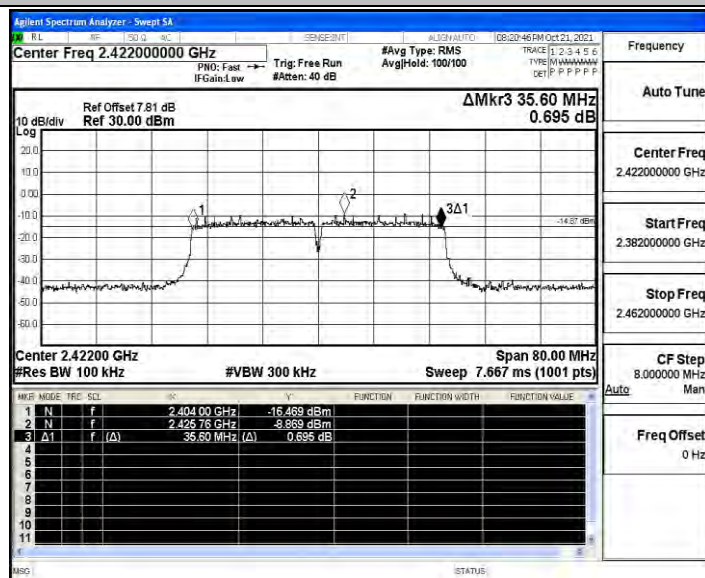




11N20SISO_Ant1_2462

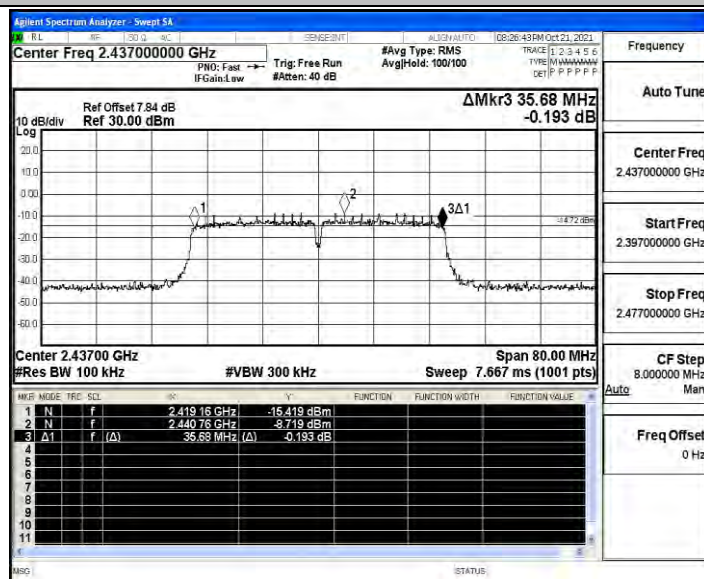


11N40SISO_Ant1_2422

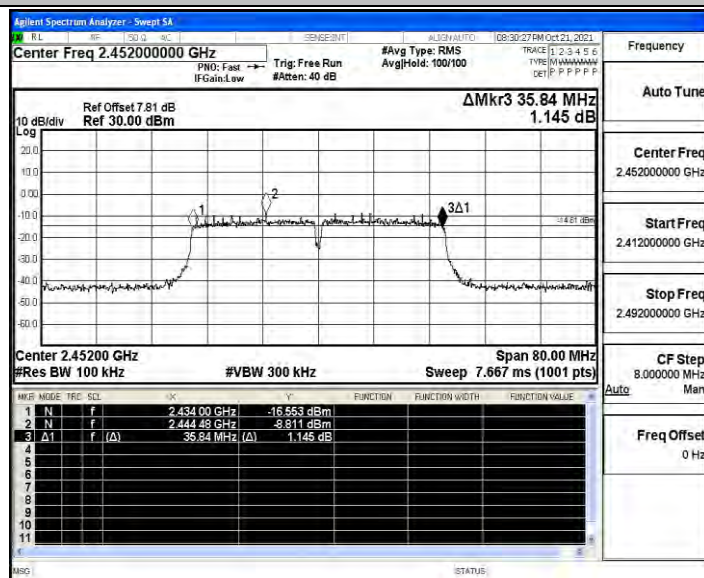




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





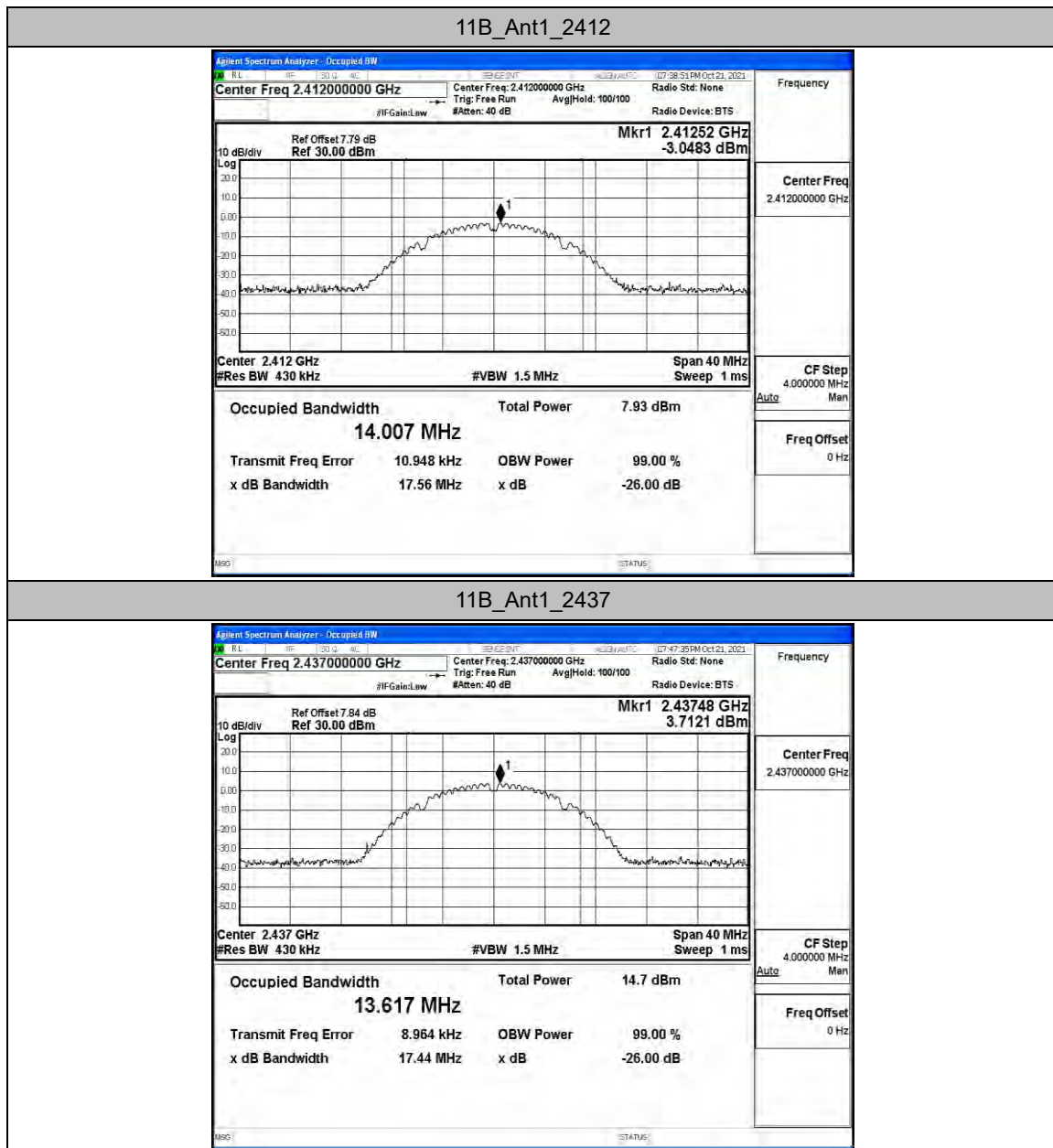
A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.007	2405.007	2419.014	---	PASS
		2437	13.617	2430.200	2443.817	---	PASS
		2462	13.572	2455.216	2468.788	---	PASS
11G	Ant1	2412	17.017	2403.526	2420.543	---	PASS
		2437	17.080	2428.491	2445.571	---	PASS
		2462	17.110	2453.420	2470.530	---	PASS
11N20SISO	Ant1	2412	18.016	2403.013	2421.029	---	PASS
		2437	18.152	2427.990	2446.142	---	PASS
		2462	18.090	2452.960	2471.050	---	PASS
11N40SISO	Ant1	2422	36.338	2403.856	2440.194	---	PASS
		2437	36.390	2418.849	2455.239	---	PASS
		2452	36.344	2433.903	2470.247	---	PASS

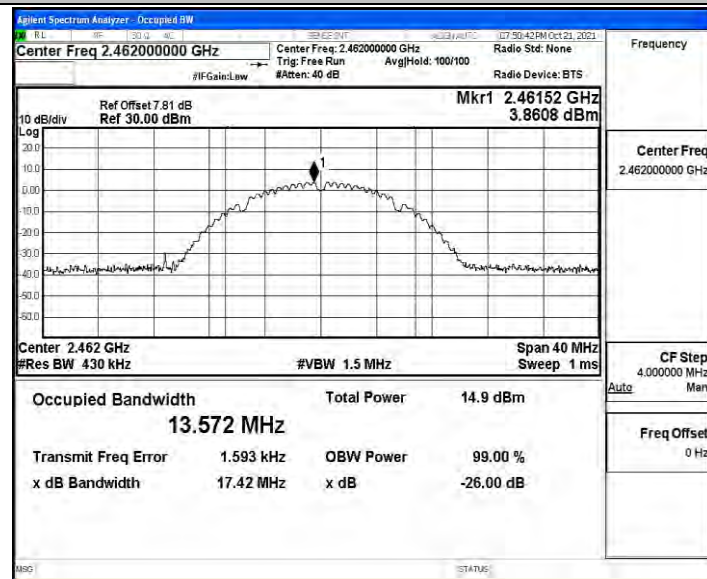


Test Graphs

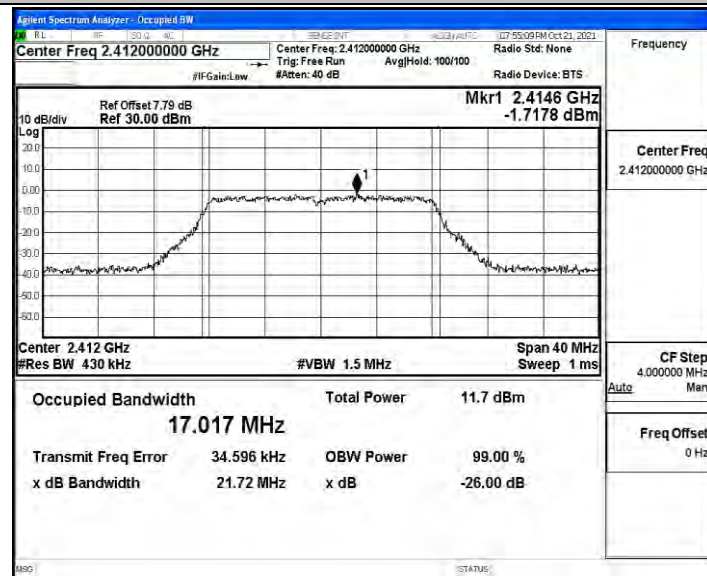




11B_Ant1_2462

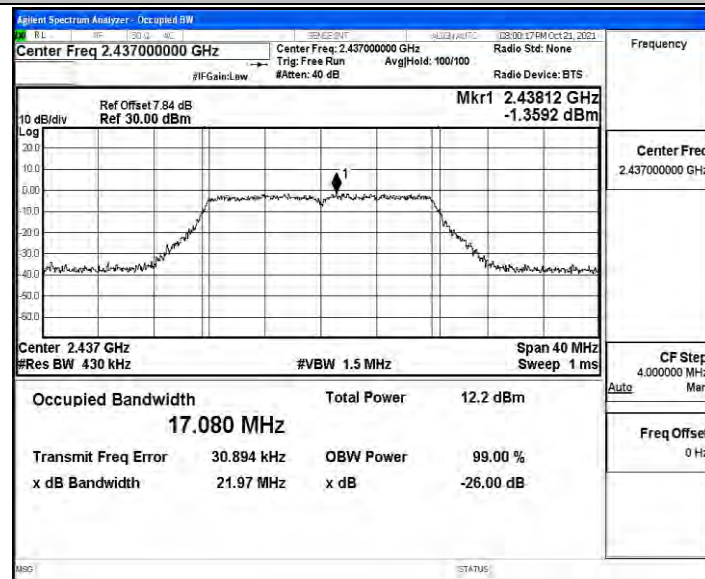


11G_Ant1_2412

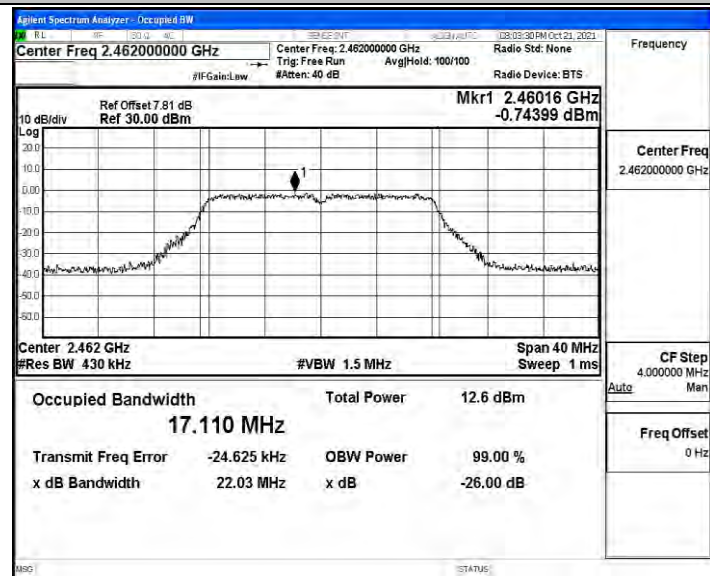




11G_Ant1_2437

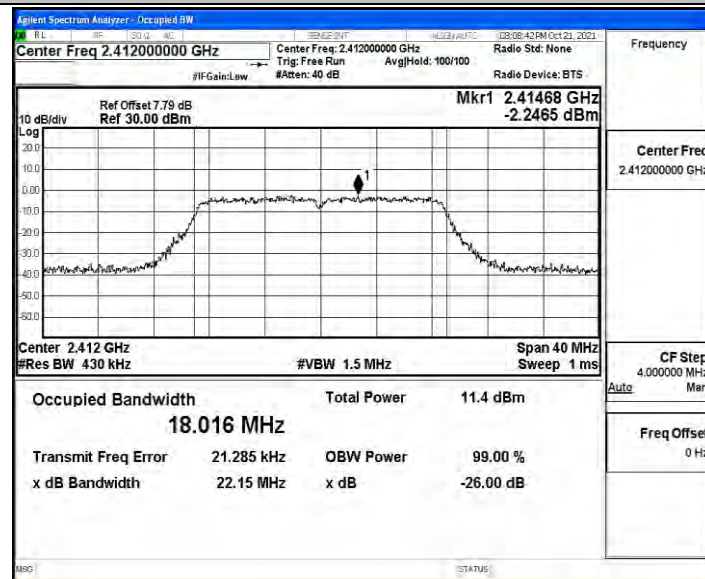


11G_Ant1_2462

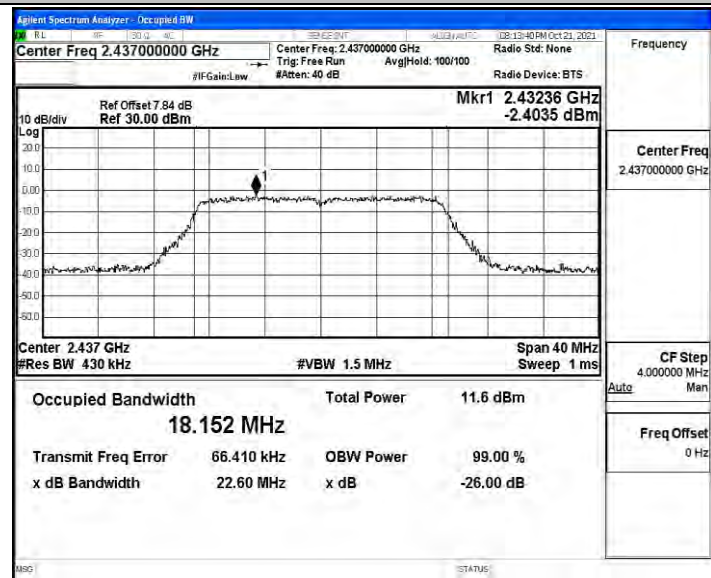




11N20SISO_Ant1_2412

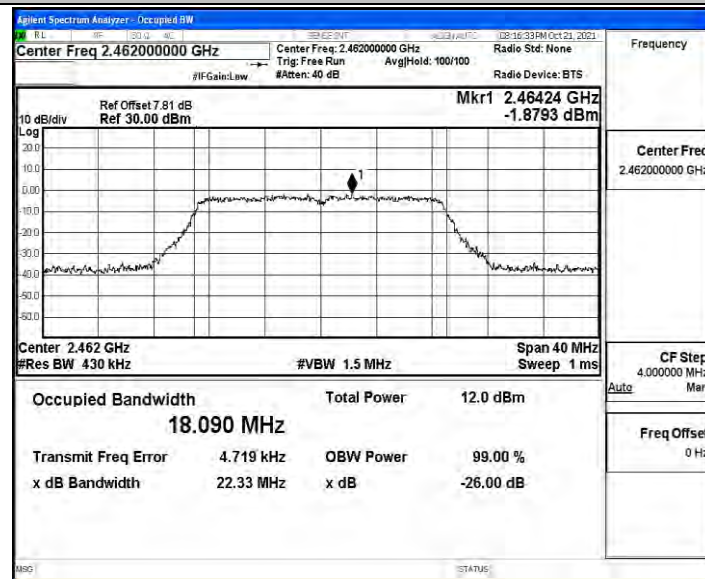


11N20SISO_Ant1_2437

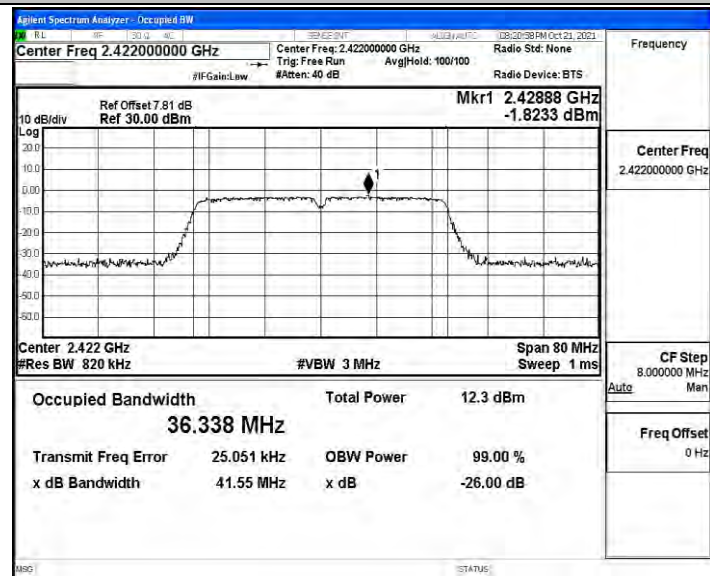




11N20SISO_Ant1_2462

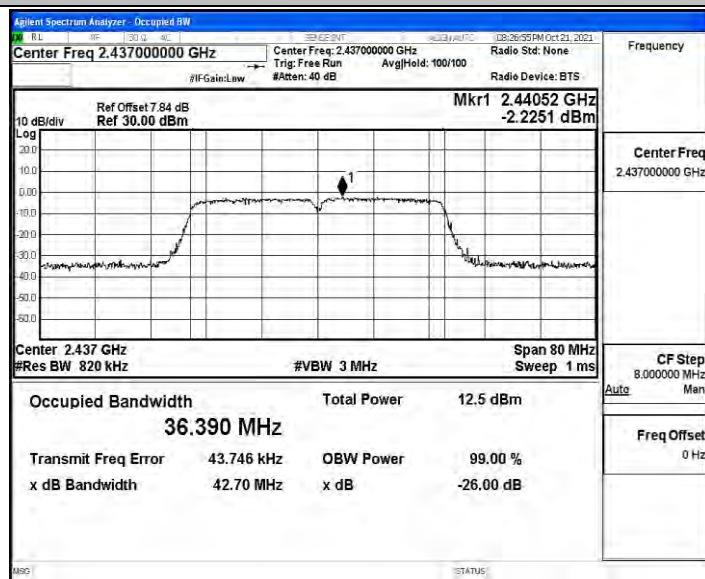


11N40SISO_Ant1_2422

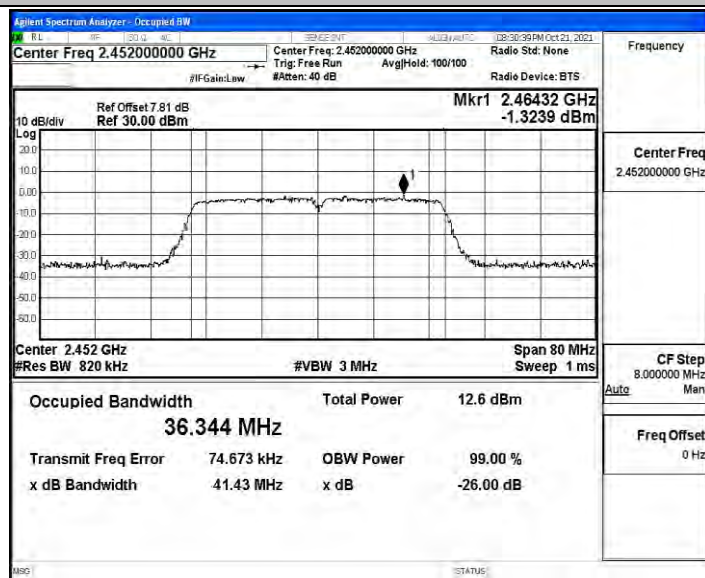




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





A.3 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit[dBm]	Verdict
11B	Ant1	2412	14.82	0	14.82	≤30	PASS
		2437	14.82	0	14.82	≤30	PASS
		2462	15.01	0	15.01	≤30	PASS
11G	Ant1	2412	12.65	0.30	12.95	≤30	PASS
		2437	13.42	0.27	13.69	≤30	PASS
		2462	13.70	0.25	13.95	≤30	PASS
11N20SISO	Ant1	2412	12.44	0.37	12.81	≤30	PASS
		2437	12.84	0.33	13.17	≤30	PASS
		2462	13.07	0.33	13.40	≤30	PASS
11N40SISO	Ant1	2422	12.52	0.72	13.24	≤30	PASS
		2437	12.82	0.72	13.54	≤30	PASS
		2452	12.95	0.72	13.67	≤30	PASS



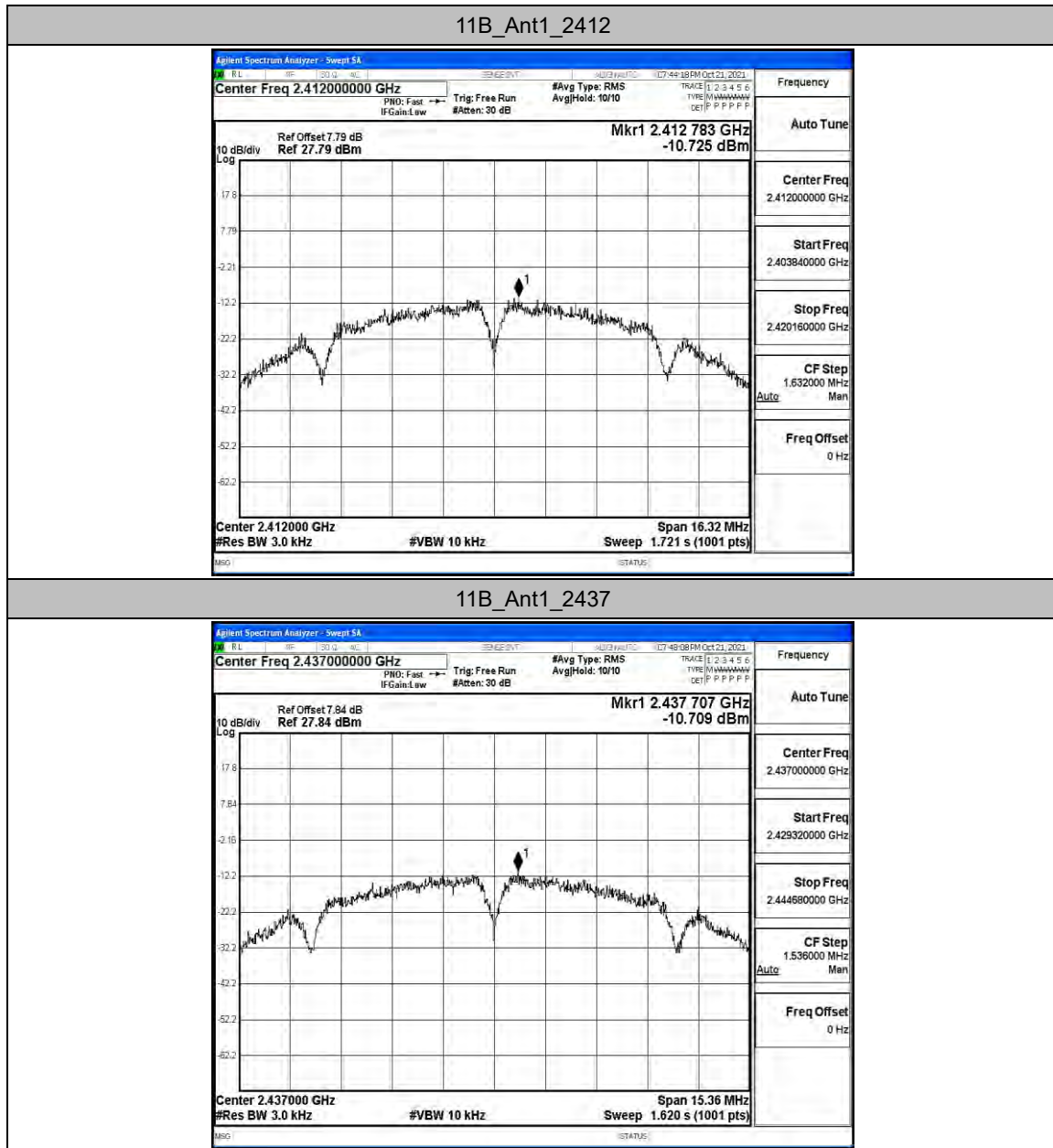
A.4 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/ 3kHz]	Duty Cycle Factor(dB)	Report Result[dBm/ 3kHz]	Limit[dB m/3kHz]	Verdict
11B	Ant1	2412	-10.73	0	-10.73	≤8	PASS
		2437	-10.71	0	-10.71	≤8	PASS
		2462	-10.97	0	-10.97	≤8	PASS
11G	Ant1	2412	-19.03	0.30	-18.73	≤8	PASS
		2437	-19.14	0.27	-18.87	≤8	PASS
		2462	-18.25	0.25	-18.00	≤8	PASS
11N20SISO	Ant1	2412	-20.21	0.37	-19.84	≤8	PASS
		2437	-19.43	0.33	-19.1	≤8	PASS
		2462	-19.87	0.33	-19.54	≤8	PASS
11N40SISO	Ant1	2422	-22.72	0.72	-22.00	≤8	PASS
		2437	-22.33	0.72	-21.61	≤8	PASS
		2452	-23.01	0.72	-22.29	≤8	PASS

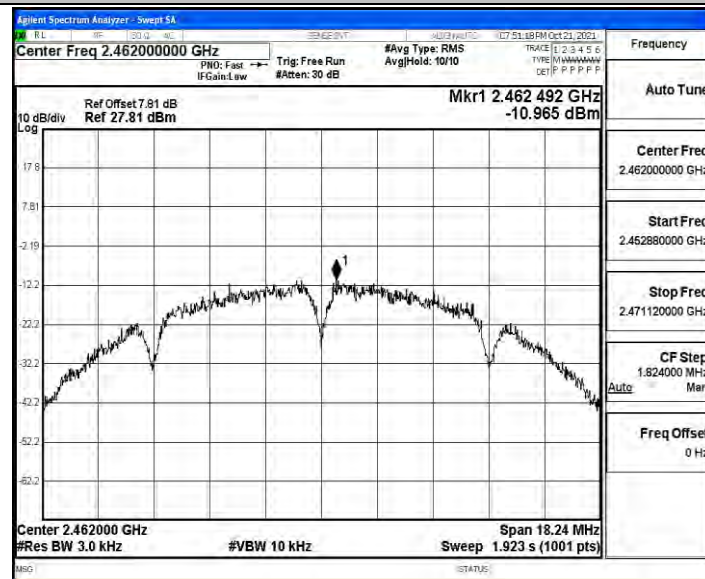


Test Graphs

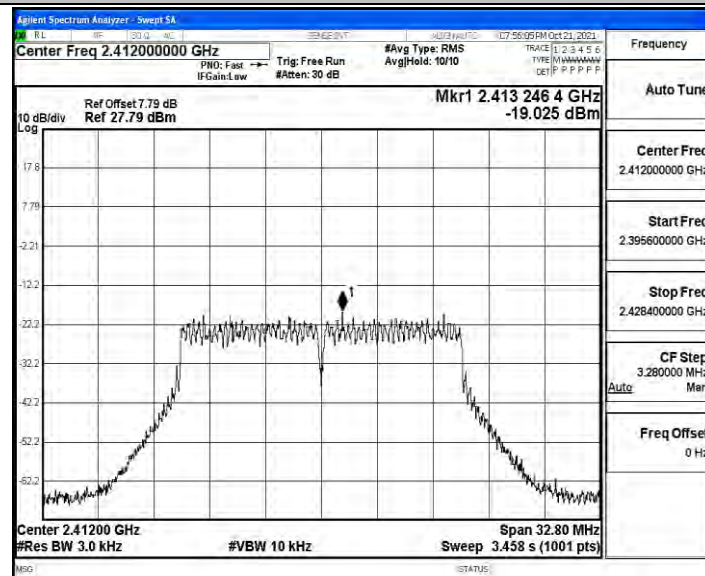




11B_Ant1_2462

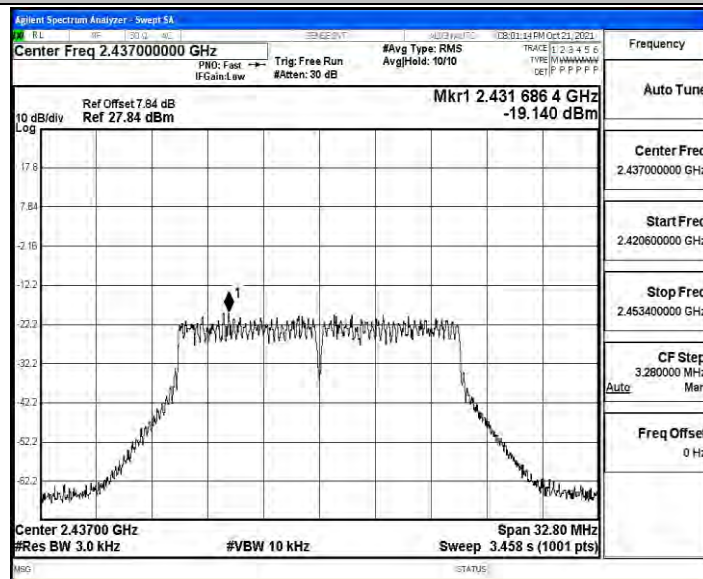


11G_Ant1_2412

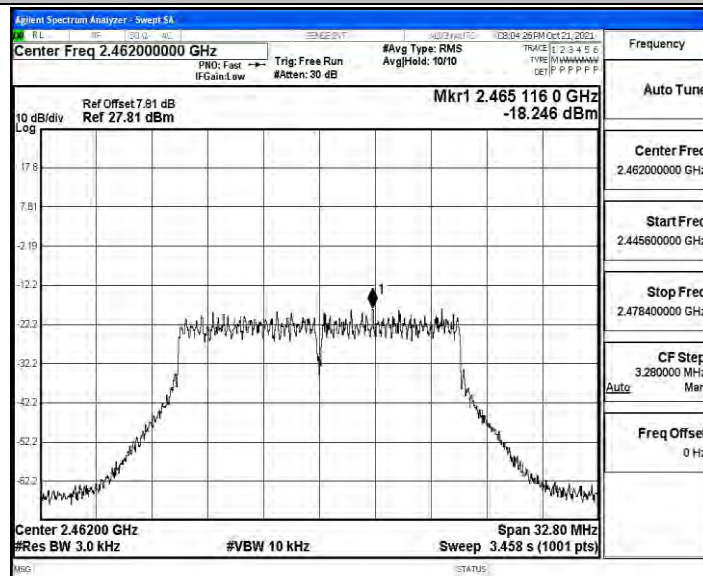




11G_Ant1_2437

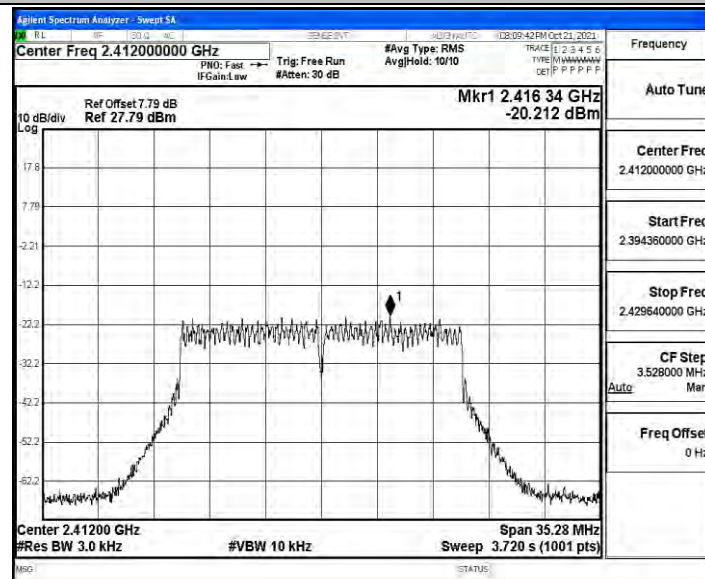


11G_Ant1_2462

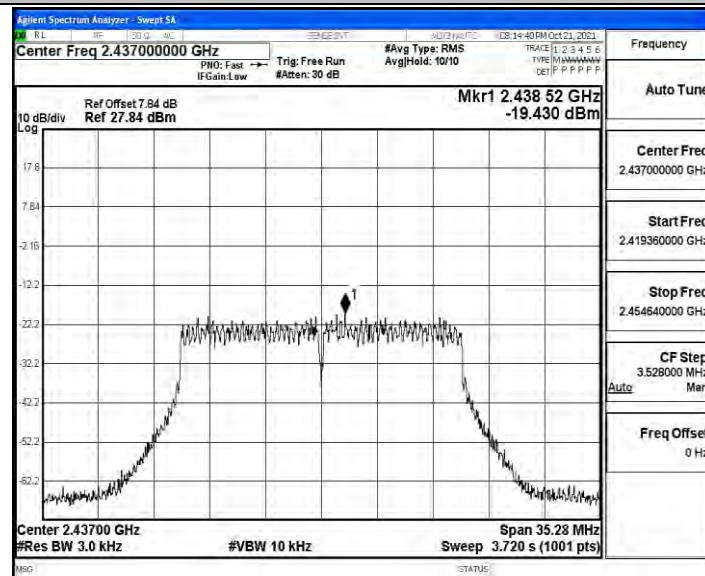




11N20SISO_Ant1_2412

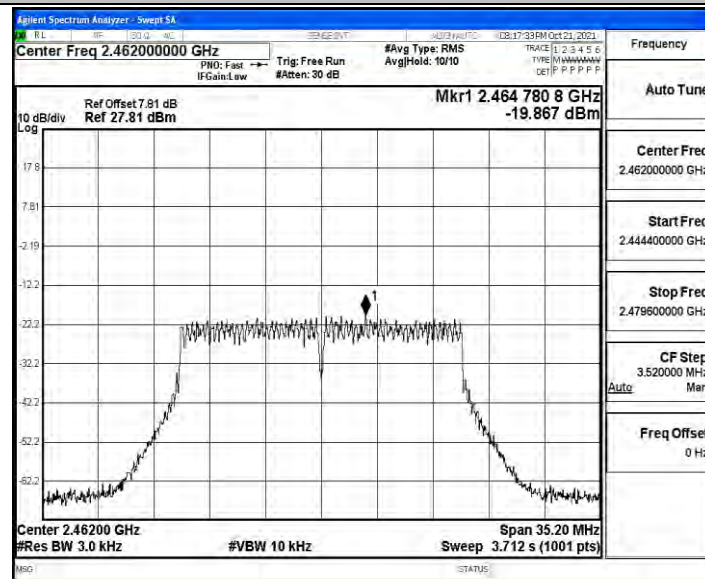


11N20SISO_Ant1_2437

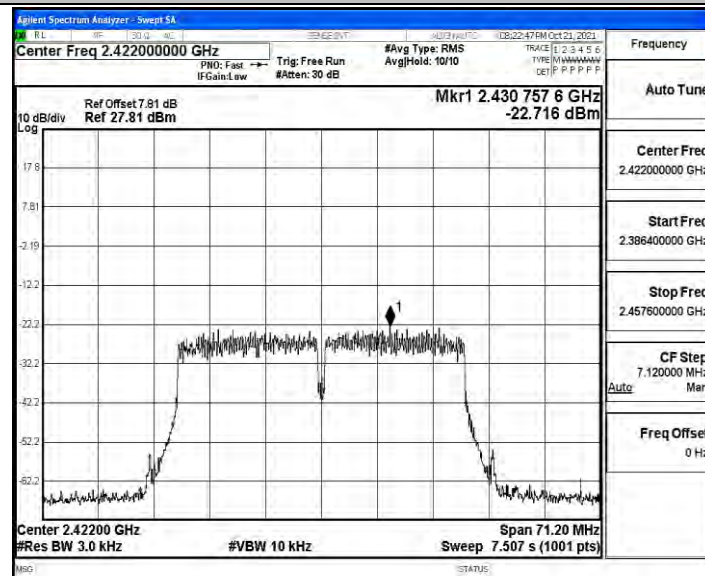




11N20SISO_Ant1_2462

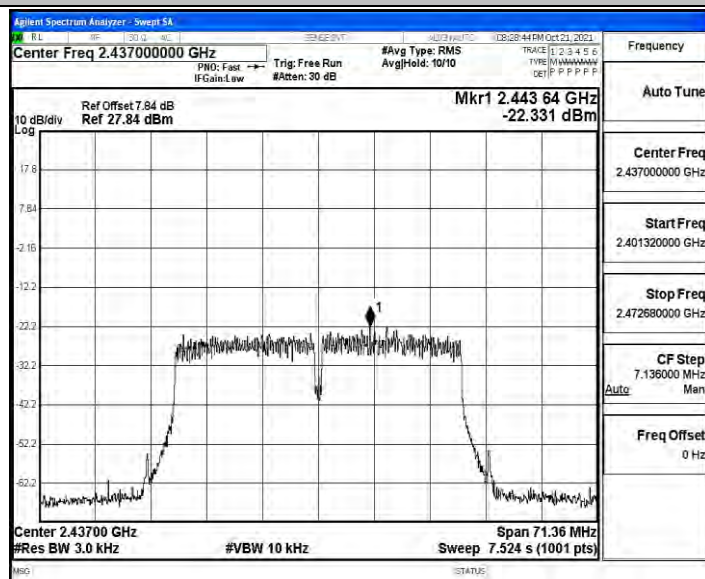


11N40SISO_Ant1_2422

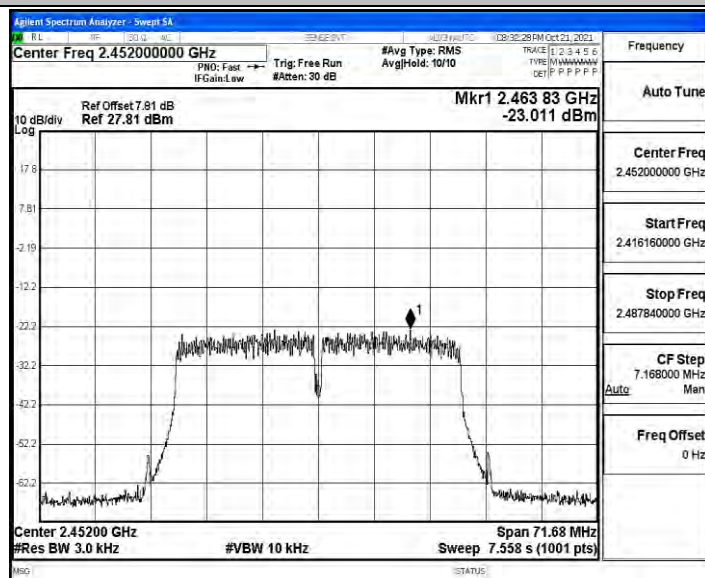




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





A.5 Band edge measurements

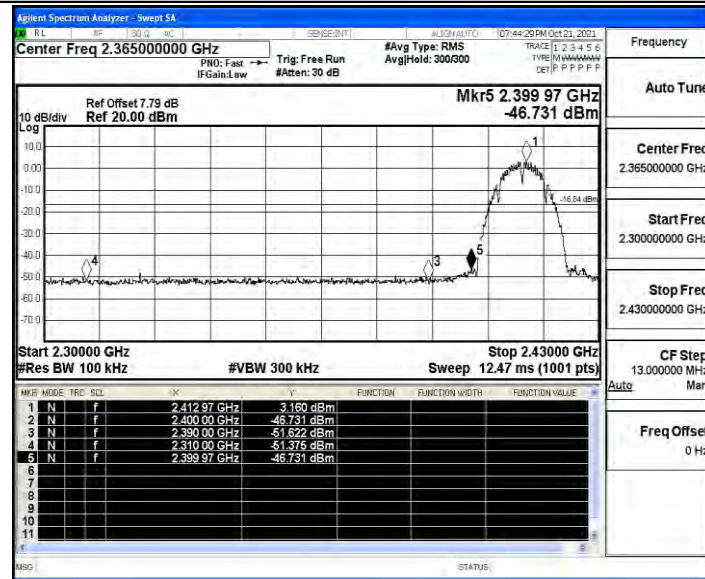
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.16	-46.73	≤ -16.84	PASS
		High	2462	3.07	-48.95	≤ -16.93	PASS
11G	Ant1	Low	2412	-5.50	-44.98	≤ -25.5	PASS
		High	2462	-4.63	-48.02	≤ -24.63	PASS
11N20SISO	Ant1	Low	2412	-5.68	-43.49	≤ -25.68	PASS
		High	2462	-5.08	-48.51	≤ -25.08	PASS
11N40SISO	Ant1	Low	2422	-8.82	-44.68	≤ -28.82	PASS
		High	2452	-8.44	-48.44	≤ -28.44	PASS

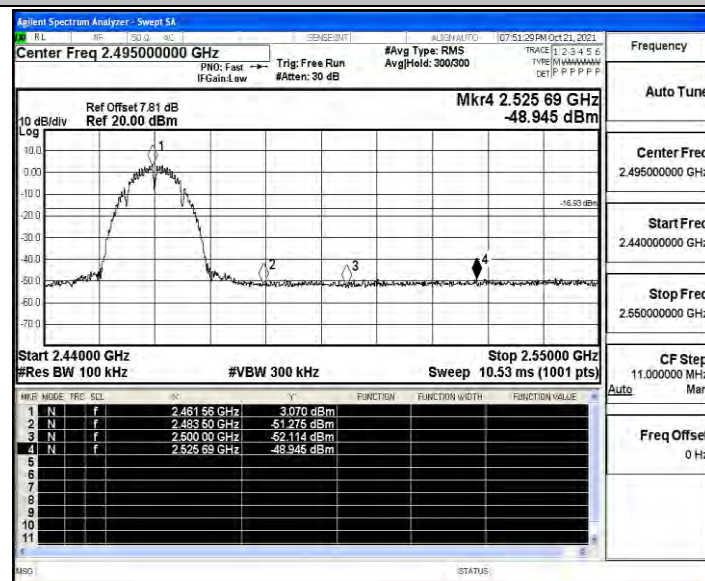


Test Graphs

11B_Ant1_Low_2412

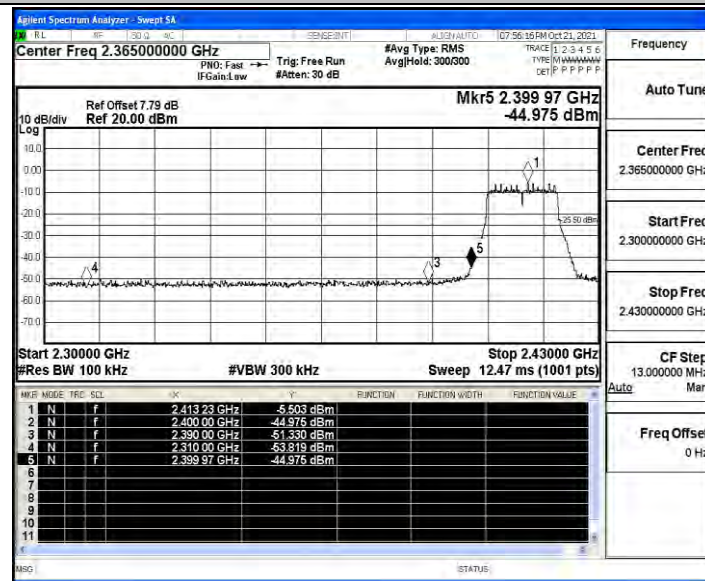


11B_Ant1_High_2462

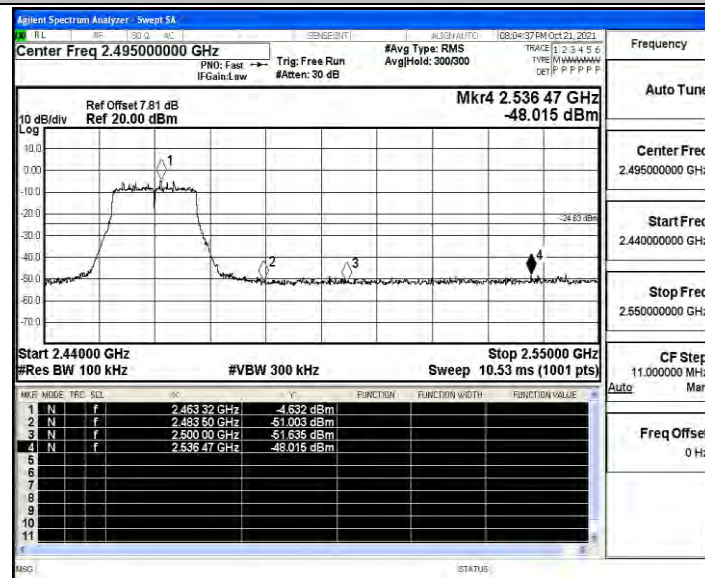




11G_Ant1_Low_2412

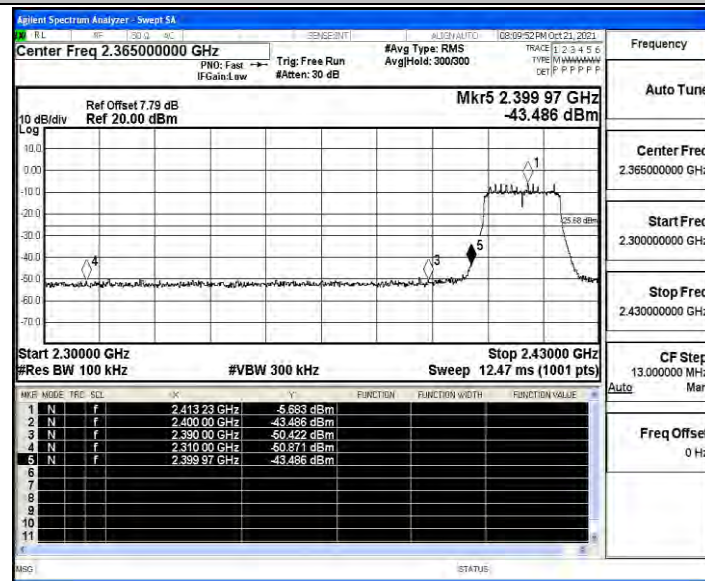


11G_Ant1_High_2462

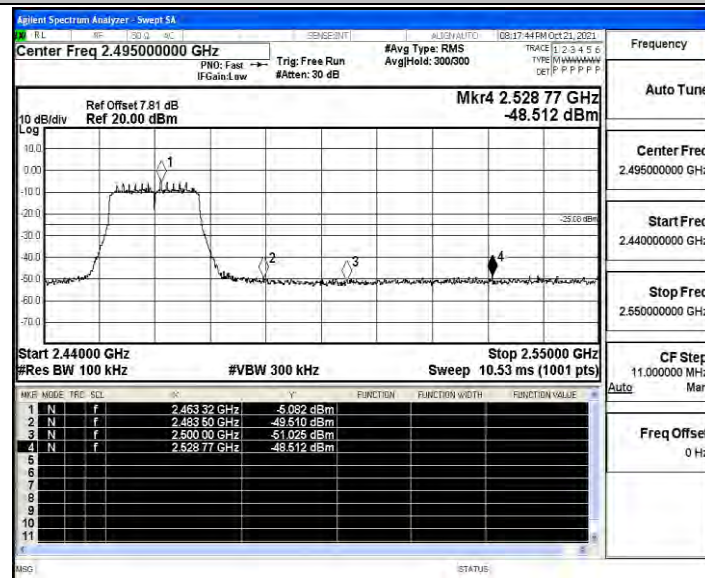




11N20SISO_Ant1_Low_2412

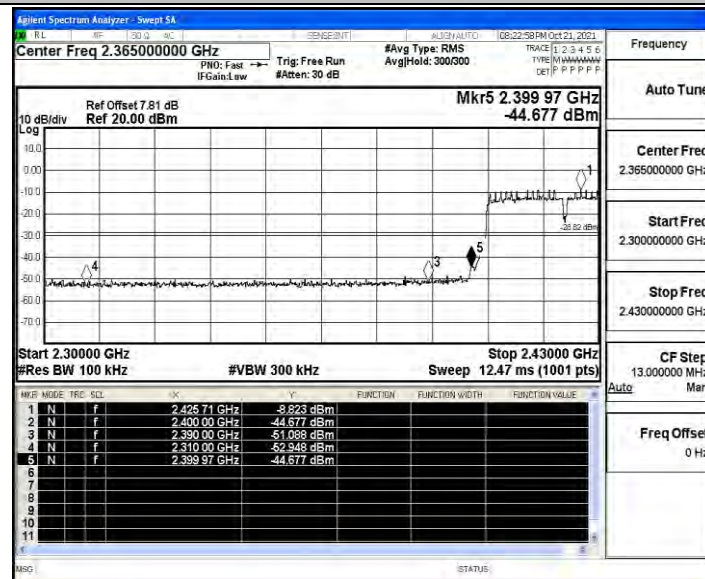


11N20SISO_Ant1_High_2462

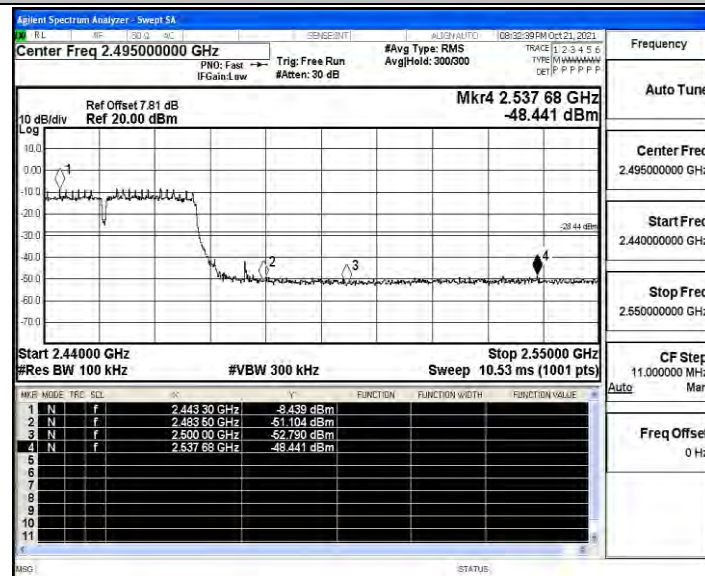




11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452





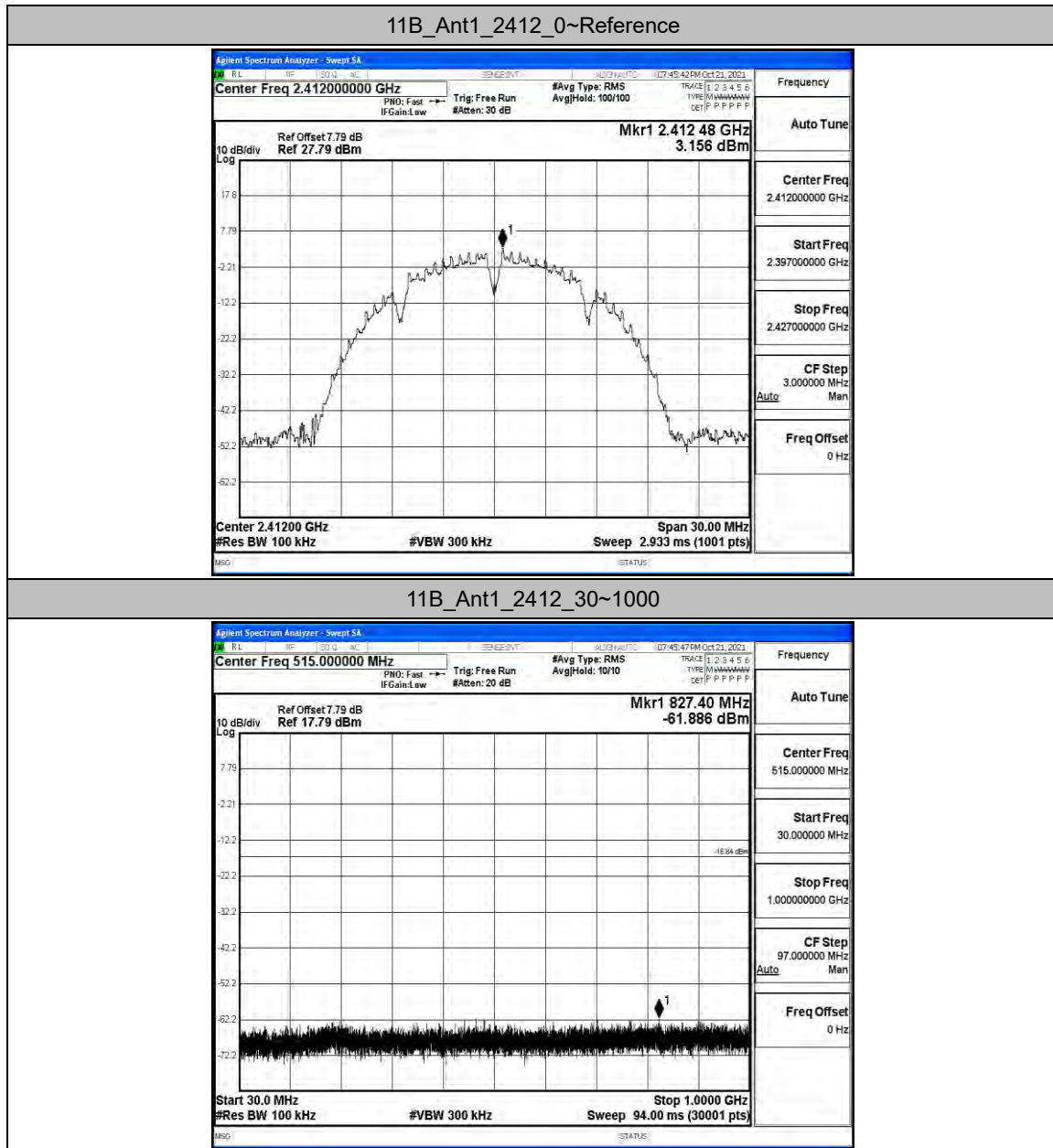
A.6 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.16	3.16	---	PASS
			30~1000	3.16	-61.89	≤-16.84	PASS
			1000~26500	3.16	-43.47	≤-16.84	PASS
		2437	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-60.6	≤-17.44	PASS
			1000~26500	2.56	-45.71	≤-17.44	PASS
		2462	Reference	3.13	3.13	---	PASS
			30~1000	3.13	-61.38	≤-16.87	PASS
			1000~26500	3.13	-46.81	≤-16.87	PASS
11G	Ant1	2412	Reference	-6.51	-6.51	---	PASS
			30~1000	-6.51	-60.25	≤-26.51	PASS
			1000~26500	-6.51	-47.64	≤-26.51	PASS
		2437	Reference	-5.44	-5.44	---	PASS
			30~1000	-5.44	-61.76	≤-25.44	PASS
			1000~26500	-5.44	-47.07	≤-25.44	PASS
		2462	Reference	-4.54	-4.54	---	PASS
			30~1000	-4.54	-61.33	≤-24.54	PASS
			1000~26500	-4.54	-47.12	≤-24.54	PASS
11N20SISO	Ant1	2412	Reference	-6.61	-6.61	---	PASS
			30~1000	-6.61	-60.58	≤-26.61	PASS
			1000~26500	-6.61	-47.54	≤-26.61	PASS
		2437	Reference	-5.61	-5.61	---	PASS
			30~1000	-5.61	-60.4	≤-25.61	PASS
			1000~26500	-5.61	-47.96	≤-25.61	PASS
		2462	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-60.53	≤-25.02	PASS
			1000~26500	-5.02	-47.45	≤-25.02	PASS
11N40SISO	Ant1	2422	Reference	-8.81	-8.81	---	PASS
			30~1000	-8.81	-60.7	≤-28.81	PASS
			1000~26500	-8.81	-47.57	≤-28.81	PASS
		2437	Reference	-8.56	-8.56	---	PASS
			30~1000	-8.56	-59.19	≤-28.56	PASS
			1000~26500	-8.56	-47.56	≤-28.56	PASS
		2452	Reference	-8.52	-8.52	---	PASS
			30~1000	-8.52	-60.72	≤-28.52	PASS
			1000~26500	-8.52	-47.71	≤-28.52	PASS

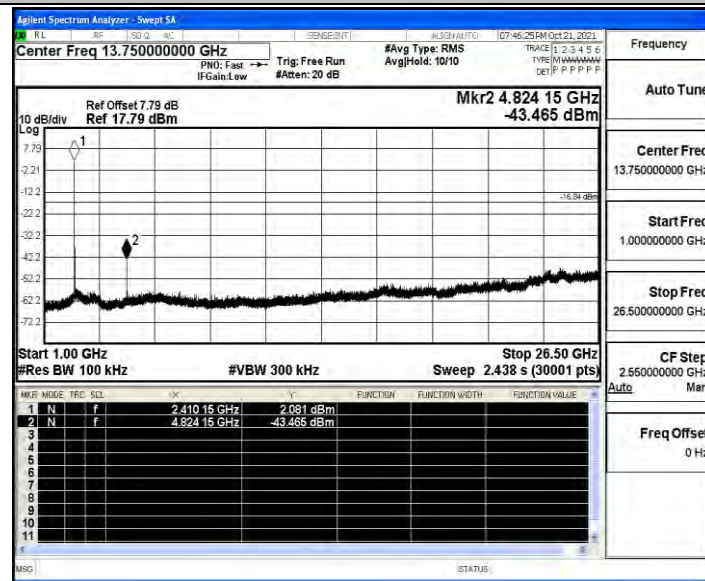


Test Graphs

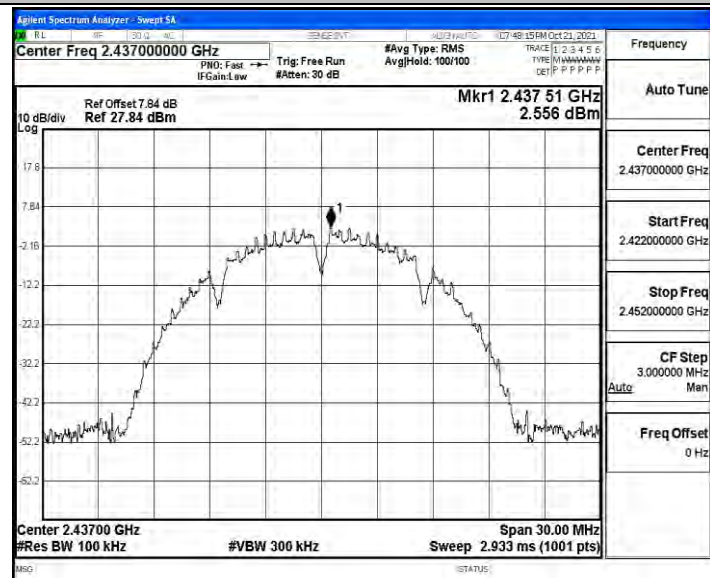




11B_Ant1_2412_1000~26500

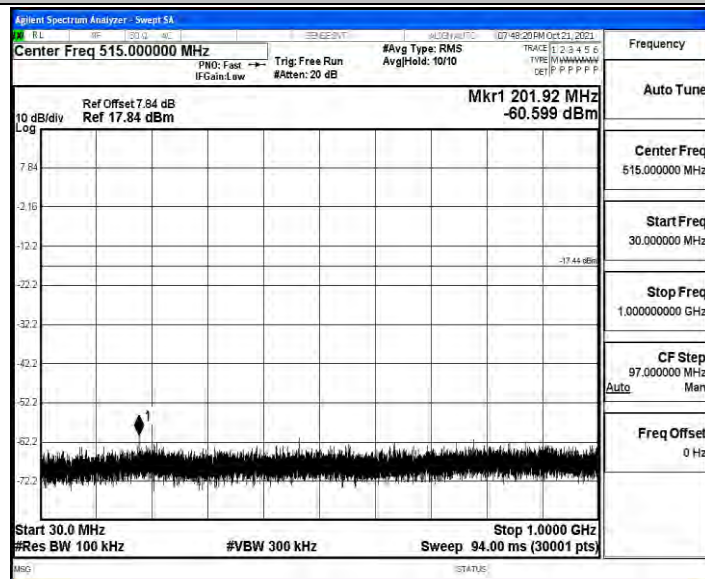


11B_Ant1_2437_0~Reference

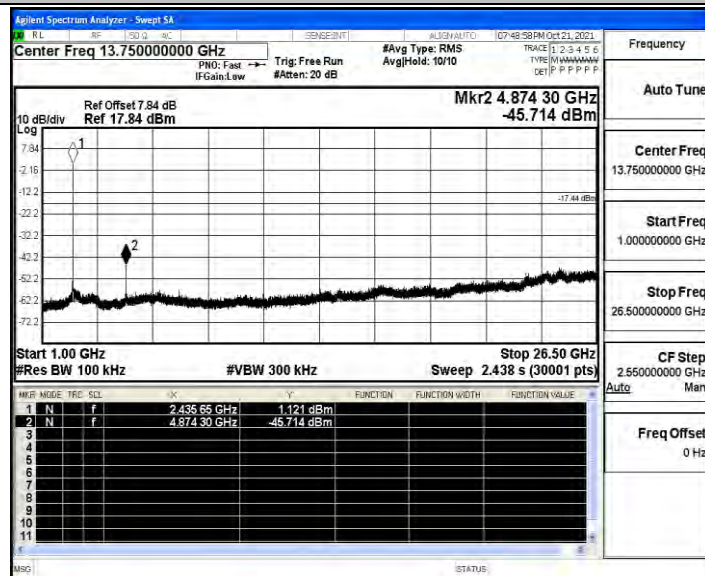




11B_Ant1_2437_30~1000

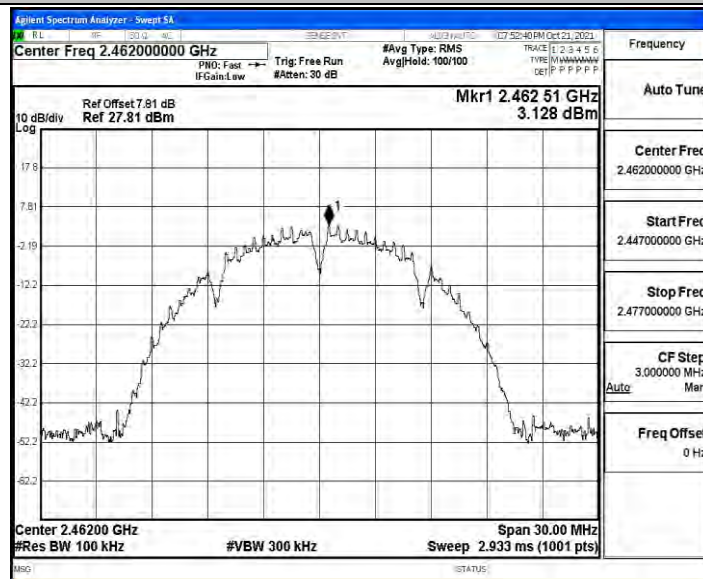


11B_Ant1_2437_1000~26500

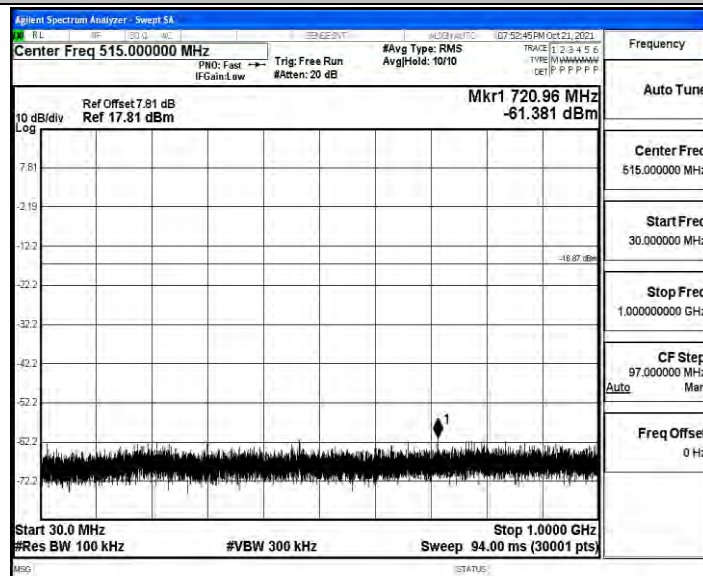




11B_Ant1_2462_0~Reference

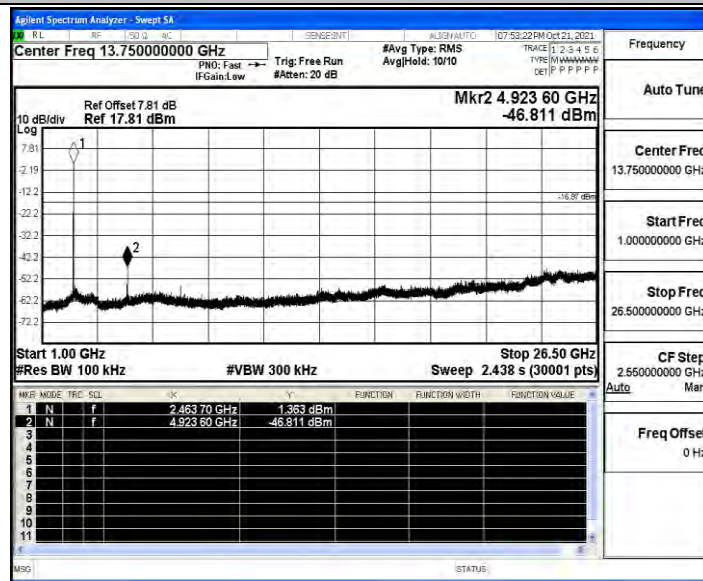


11B_Ant1_2462_30~1000

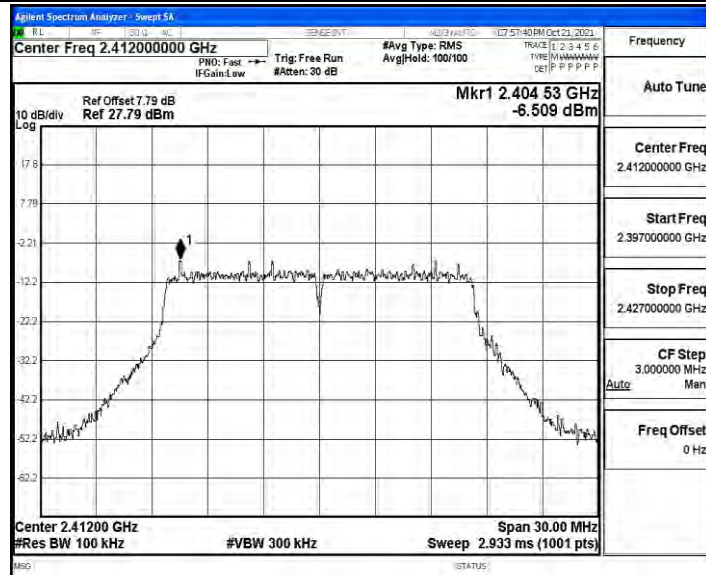




11B_Ant1_2462_1000~26500

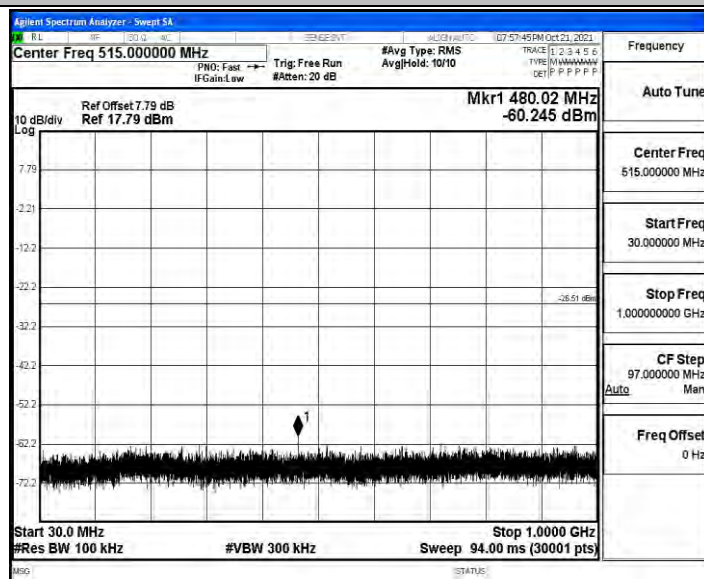


11G_Ant1_2412_0~Reference

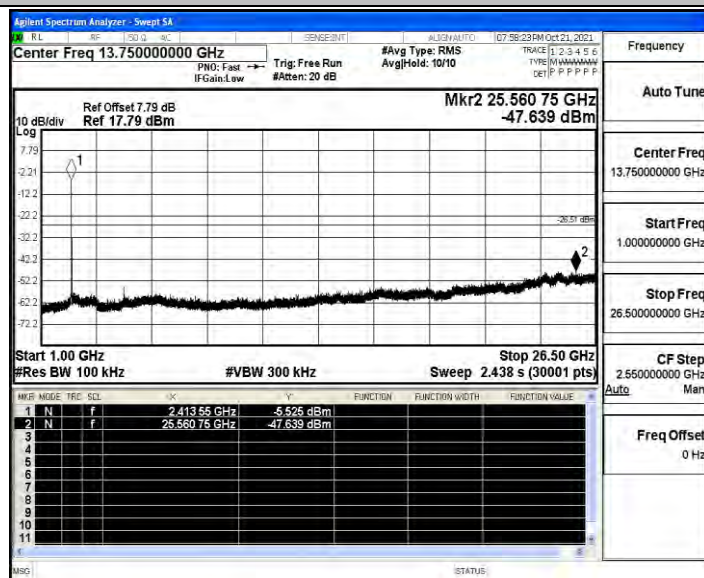




11G_Ant1_2412_30~1000

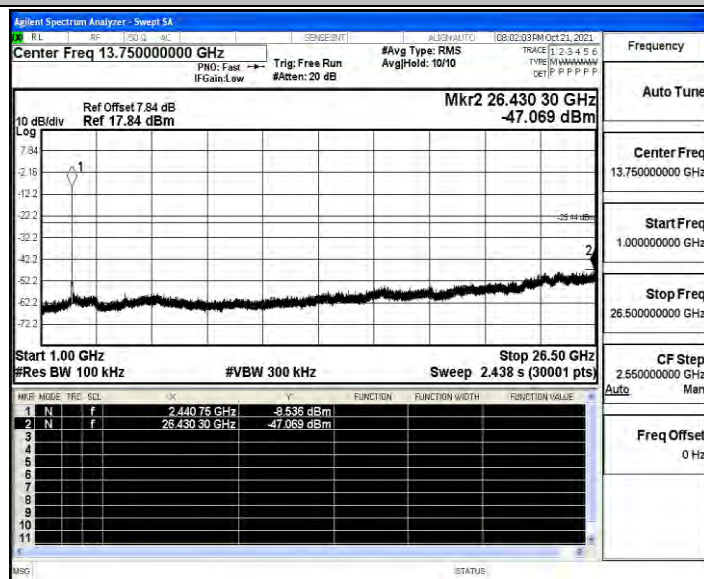


11G_Ant1_2412_1000~26500

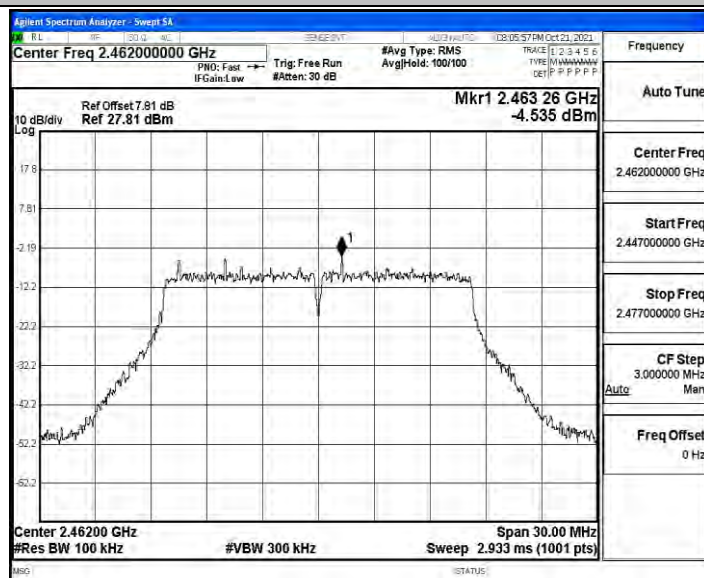




11G_Ant1_2437_1000~26500

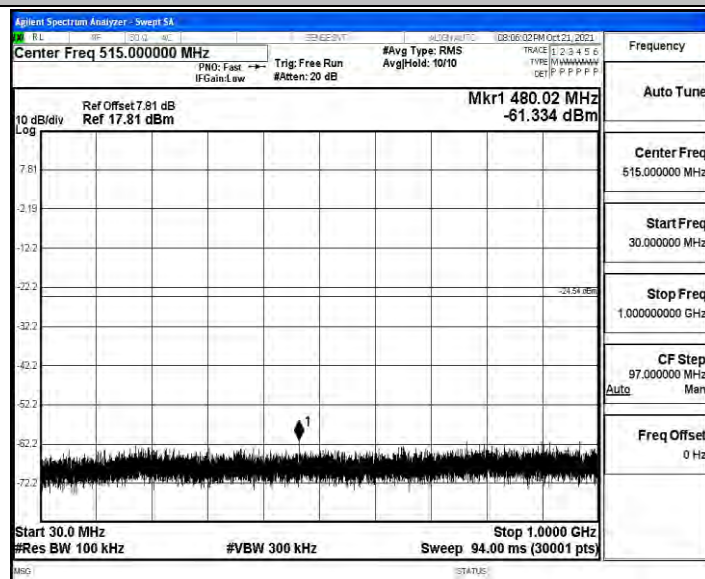


11G_Ant1_2462_0~Reference

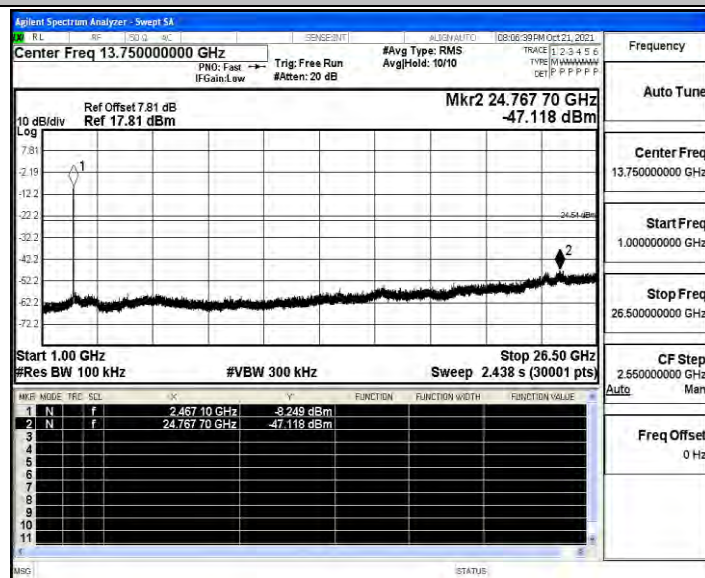




11G_Ant1_2462_30~1000

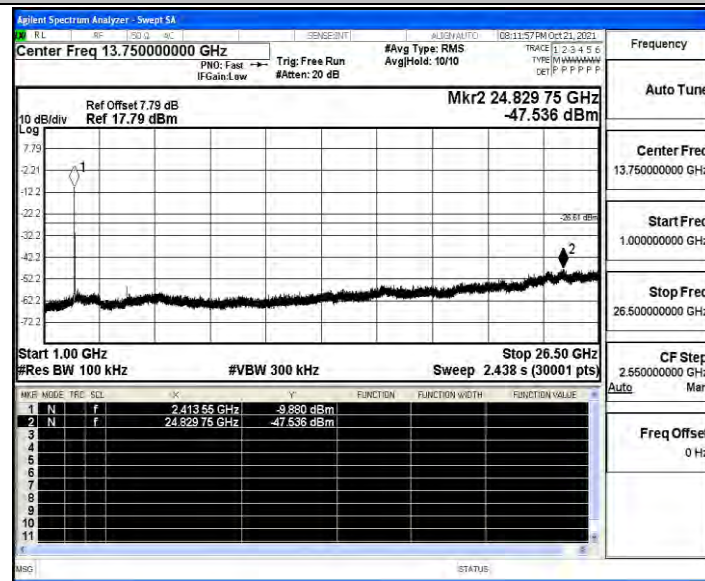


11G_Ant1_2462_1000~26500

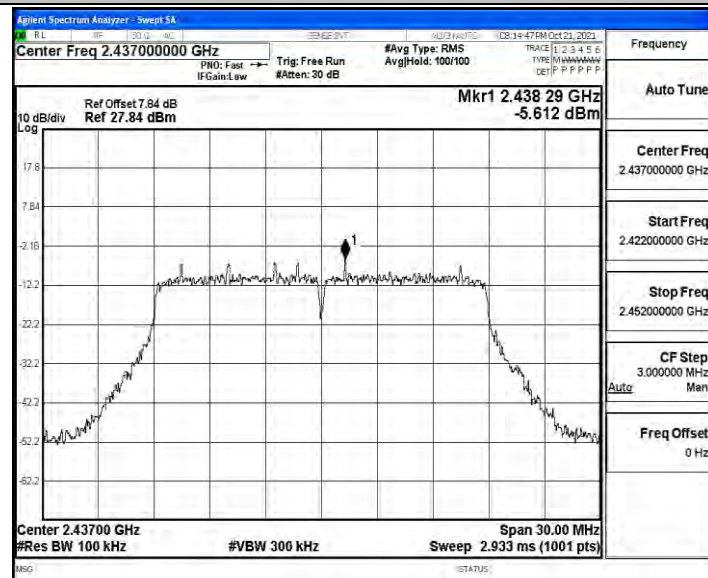




11N20SISO_Ant1_2412_1000~26500

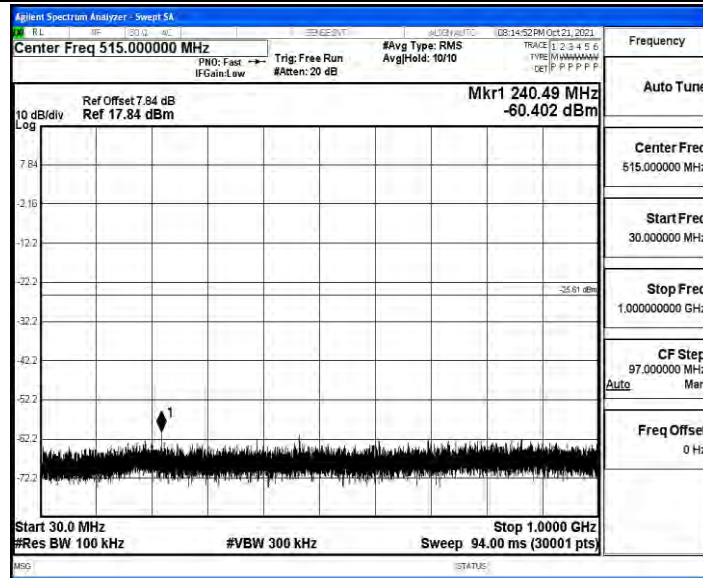


11N20SISO_Ant1_2437_0~Reference

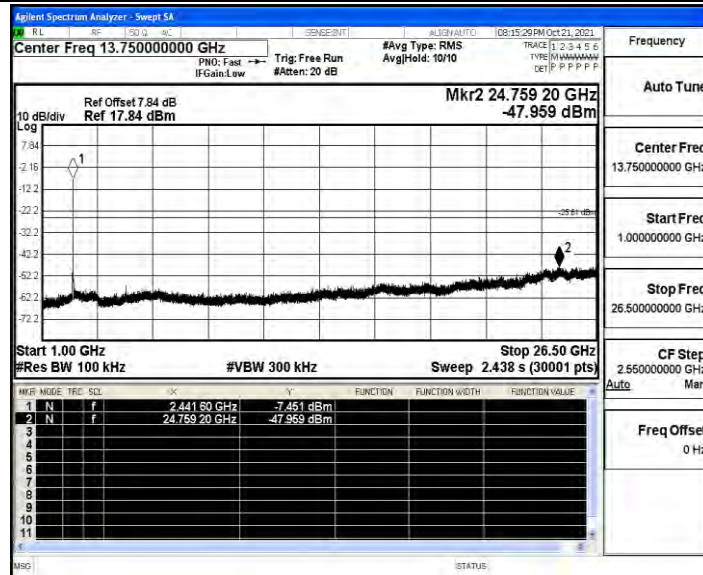




11N20SISO_Ant1_2437_30~1000

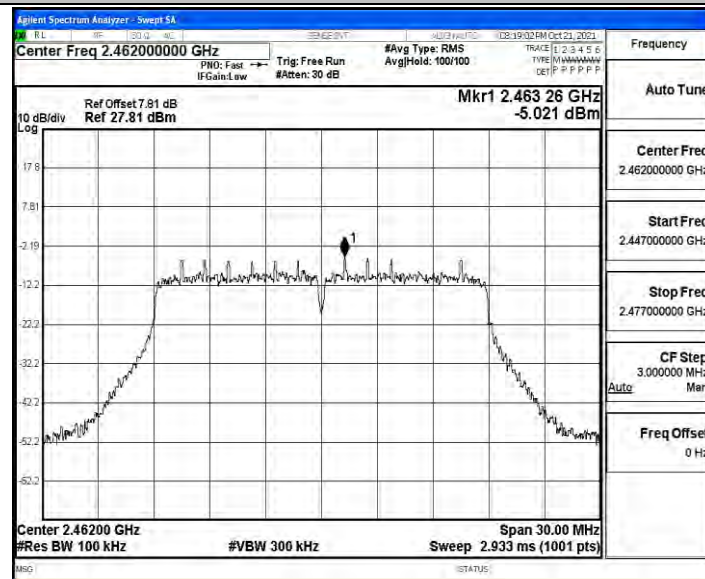


11N20SISO_Ant1_2437_1000~26500

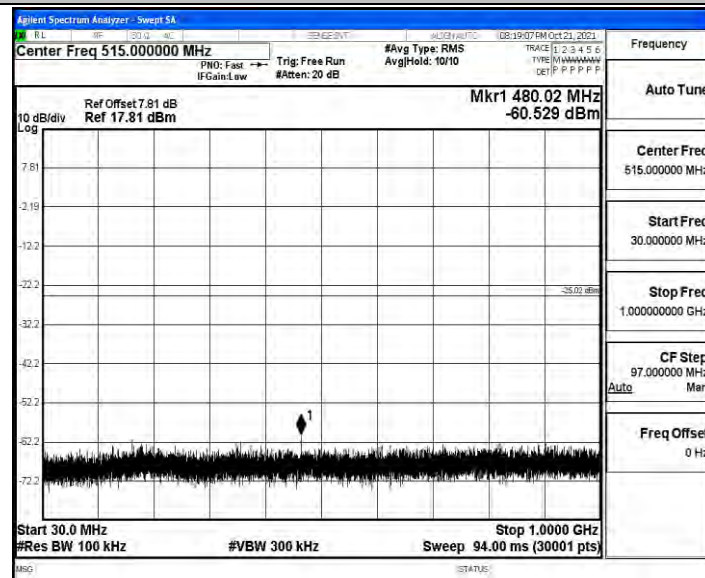




11N20SISO_Ant1_2462_0~Reference

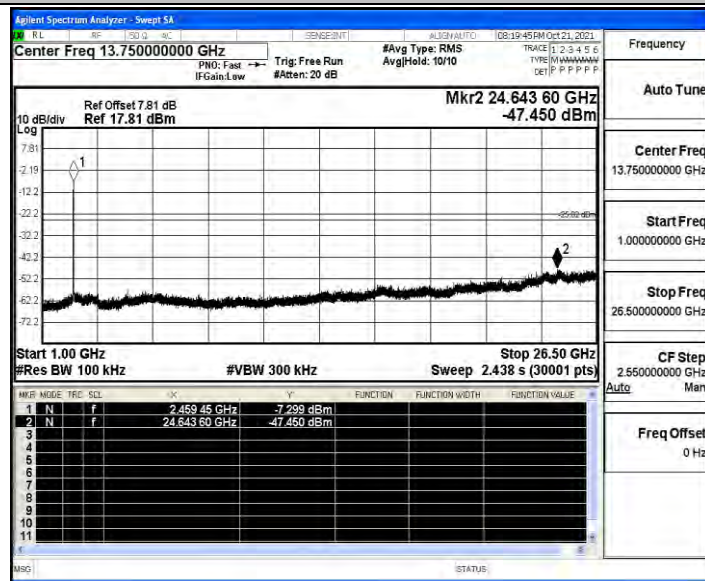


11N20SISO_Ant1_2462_30~1000

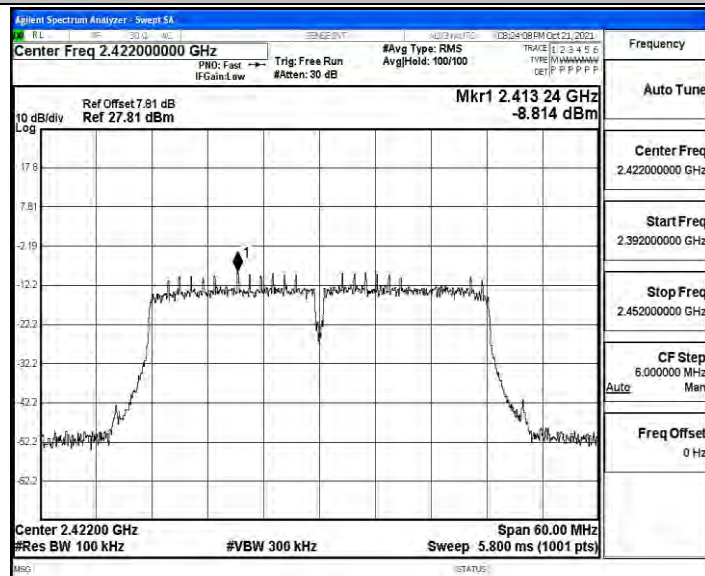




11N20SISO_Ant1_2462_1000~26500

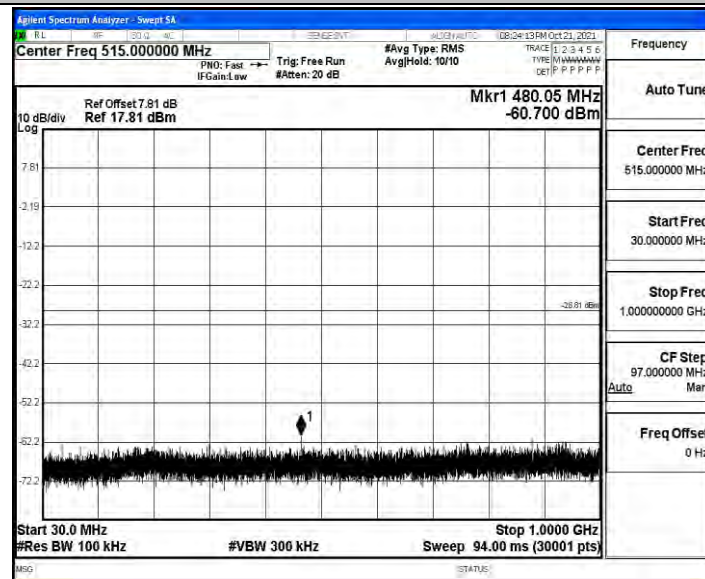


11N40SISO_Ant1_2422_0~Reference

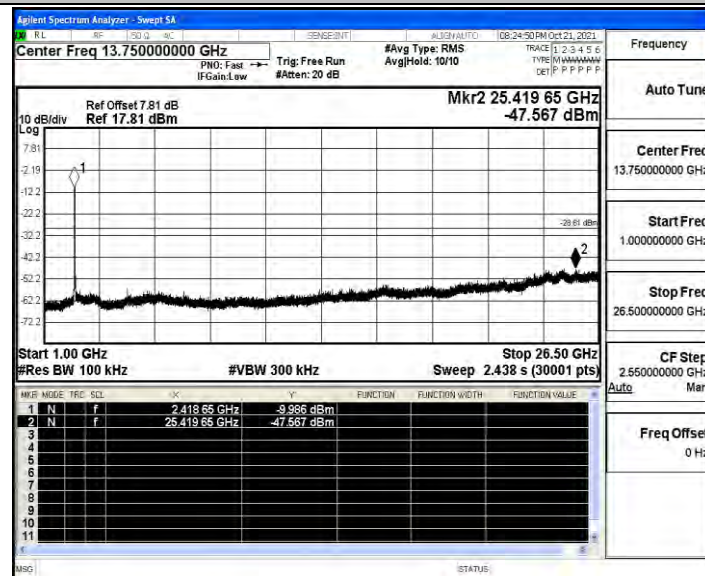




11N40SISO_Ant1_2422_30~1000

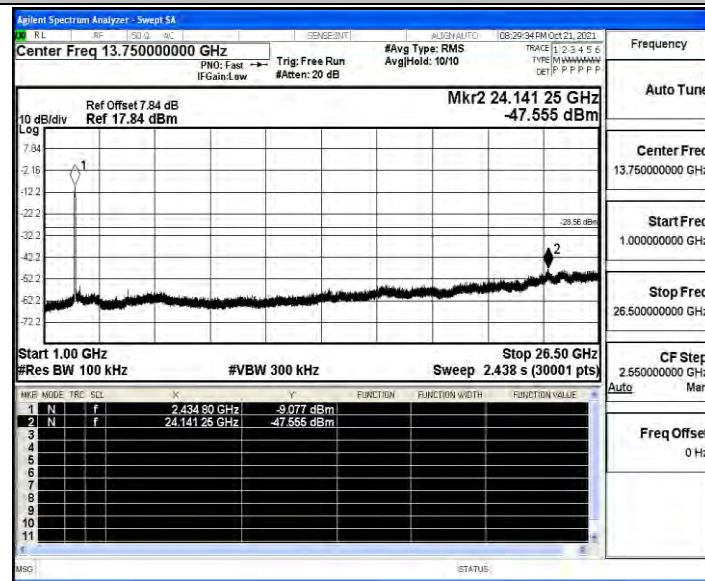


11N40SISO_Ant1_2422_1000~26500

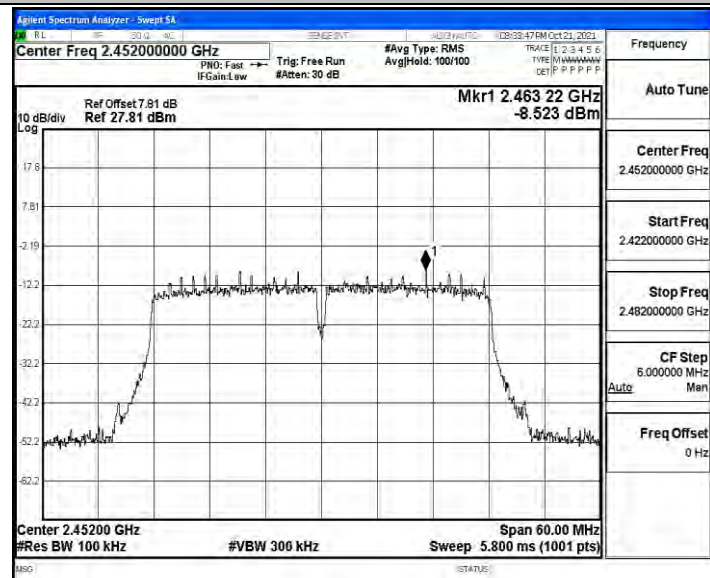




11N40SISO_Ant1_2437_1000~26500

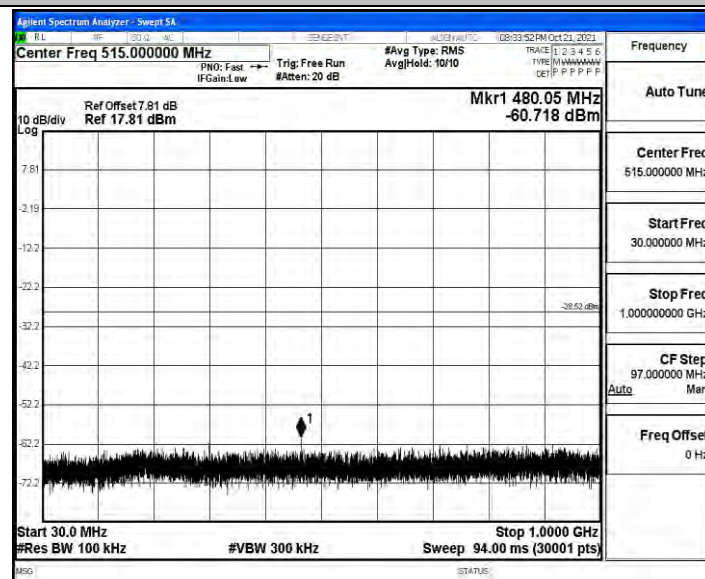


11N40SISO_Ant1_2452_0~Reference

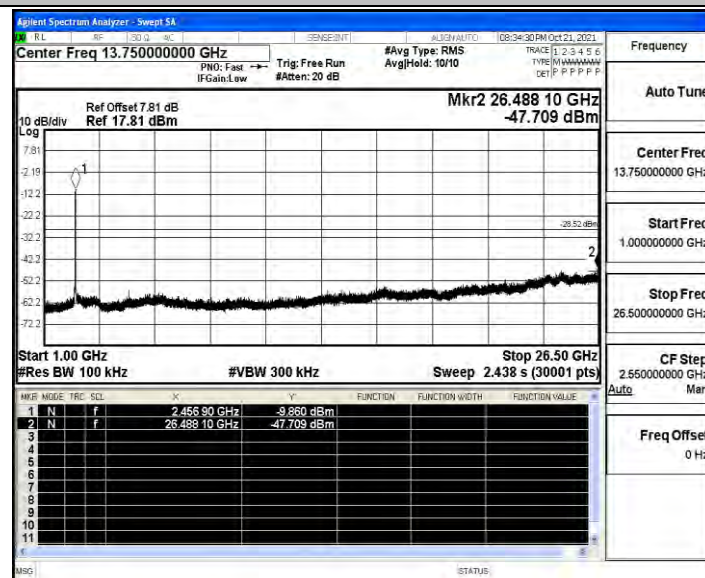




11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500





A.7 Duty Cycle

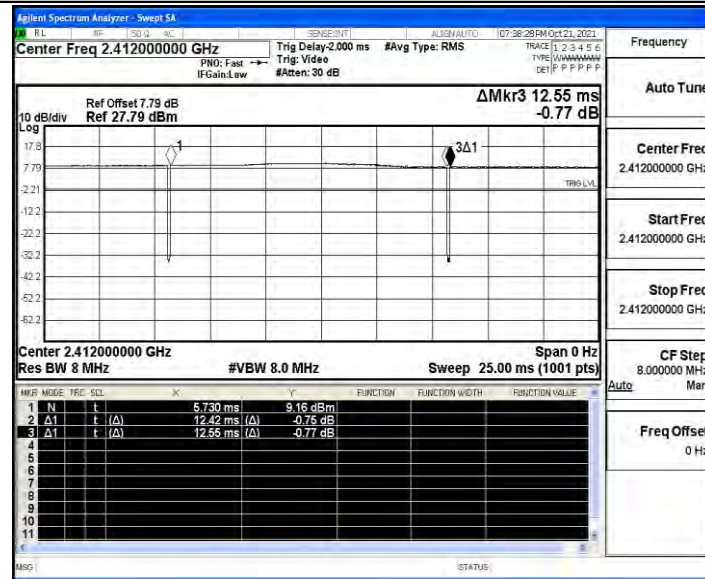
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	12.42	12.55	98.96	---	PASS
		2437	12.42	12.46	99.68	---	PASS
		2462	12.40	12.55	98.80	---	PASS
11G	Ant1	2412	2.07	2.22	93.24	---	PASS
		2437	2.06	2.19	94.06	---	PASS
		2462	2.06	2.18	94.50	---	PASS
11N20SISO	Ant1	2412	1.92	2.09	91.87	---	PASS
		2437	1.92	2.07	92.75	---	PASS
		2462	1.92	2.07	92.75	---	PASS
11N40SISO	Ant1	2422	0.94	1.11	84.68	---	PASS
		2437	0.94	1.11	84.68	---	PASS
		2452	0.94	1.11	84.68	---	PASS

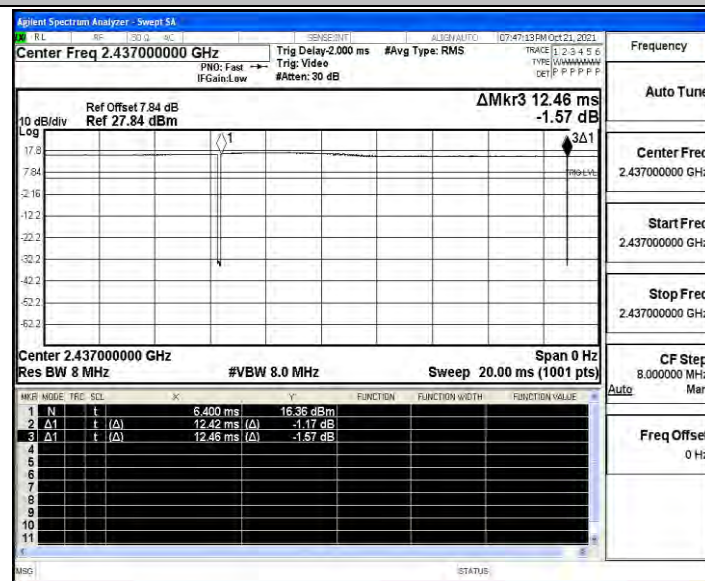


Test Graphs

11B_Ant1_2412

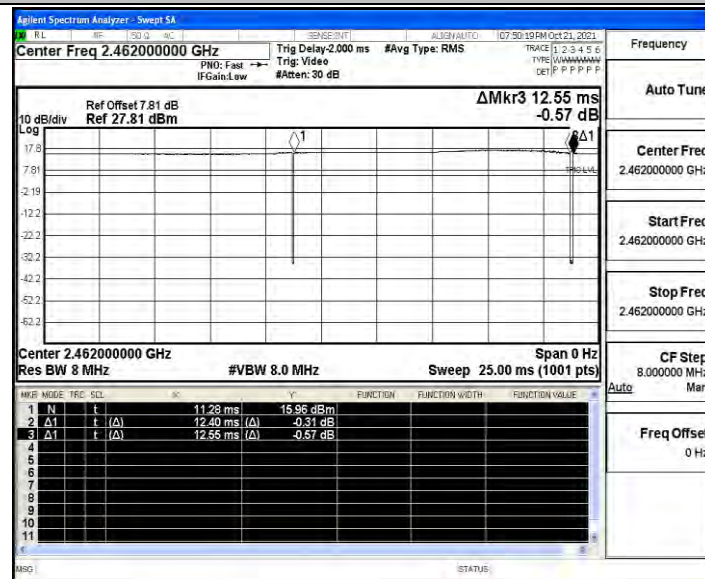


11B_Ant1_2437

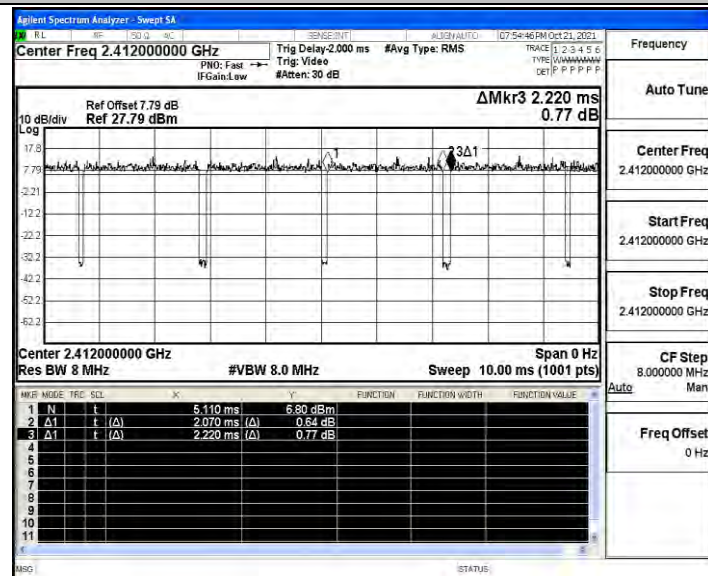


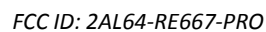


11B_Ant1_2462

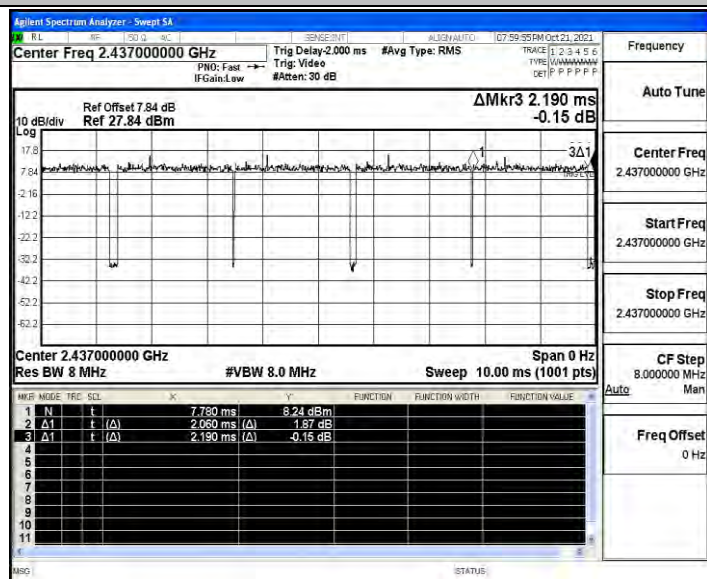


11G_Ant1_2412

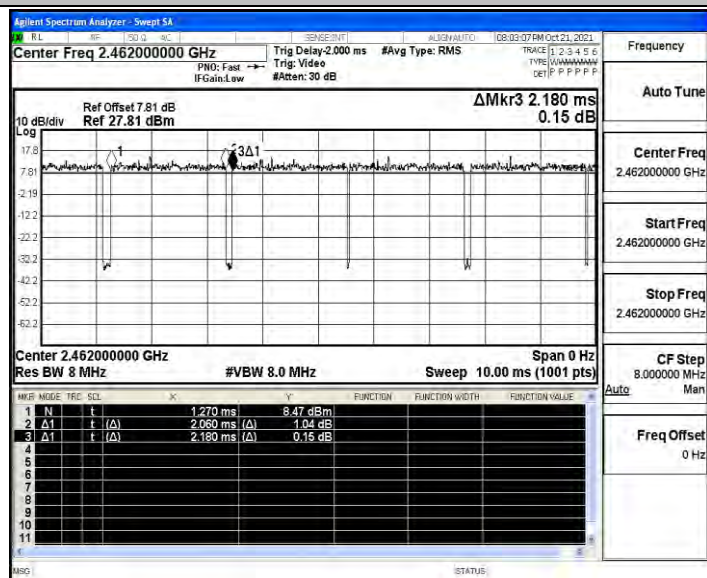




11G Ant1 2437

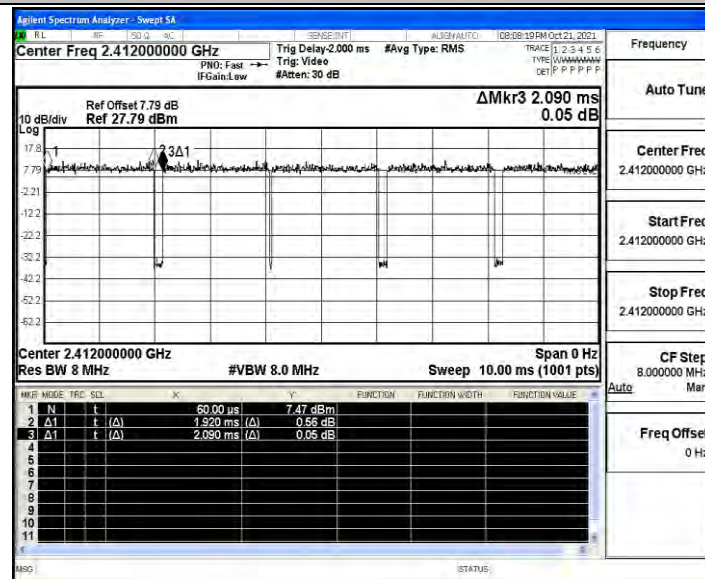


11G Ant1 2462

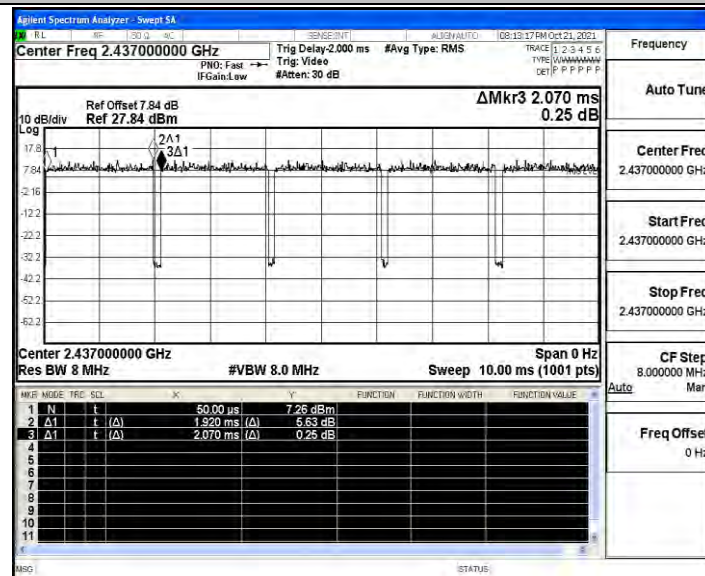




11N20SISO_Ant1_2412

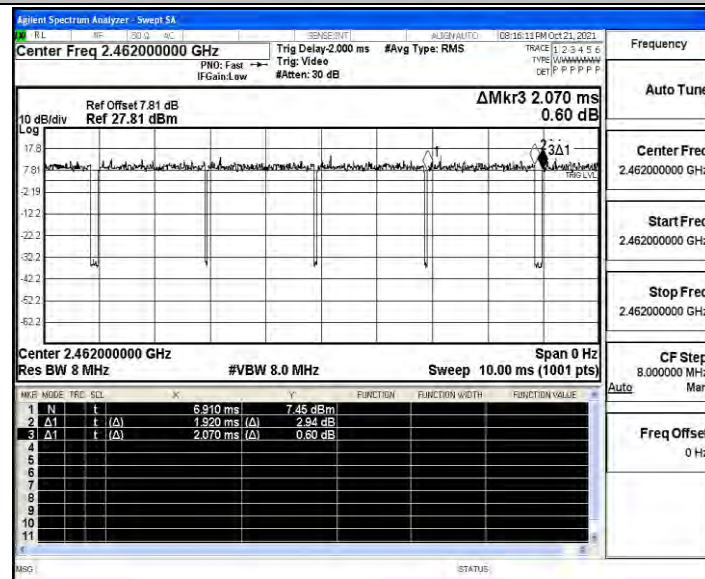


11N20SISO_Ant1_2437

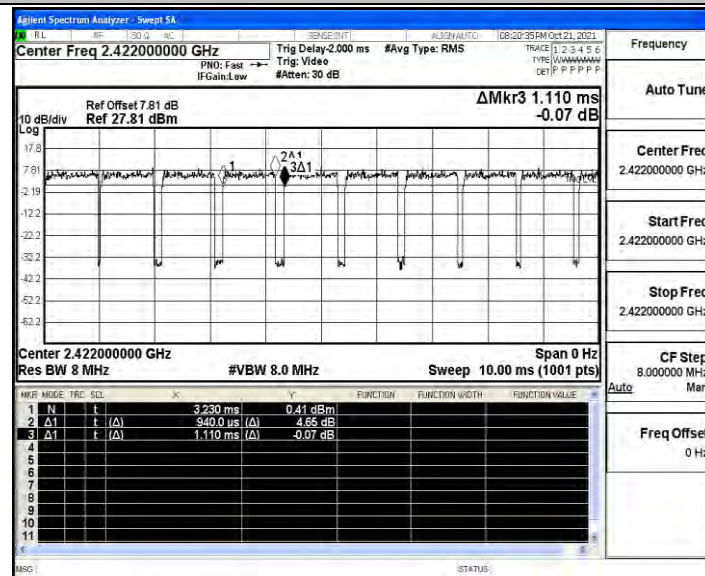


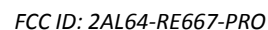


11N20SISO_Ant1_2462



11N40SISO_Ant1_2422







A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.02	≤-41.20	46.18	≤54	PASS
				AV	2389.960	-48.39	≤-41.20	46.81	≤54	PASS
				AV	2390.000	-48.4	≤-41.20	46.80	≤54	PASS
				Peak	2310.000	-42.89	≤-21.20	52.31	≤74	PASS
				Peak	2320.410	-39.44	≤-21.20	55.76	≤74	PASS
				Peak	2390.000	-43.23	≤-21.20	51.97	≤74	PASS
		High	2462	AV	2483.500	-48.08	≤-41.20	47.12	≤54	PASS
				AV	2487.960	-47.99	≤-41.20	47.21	≤54	PASS
				AV	2500.000	-48.1	≤-41.20	47.10	≤54	PASS
				Peak	2483.500	-41.32	≤-21.20	53.88	≤74	PASS
				Peak	2496.980	-38.16	≤-21.20	57.04	≤74	PASS
				Peak	2500.000	-44.41	≤-21.20	50.79	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.91	≤-41.20	46.29	≤54	PASS
				AV	2389.830	-48.19	≤-41.20	47.01	≤54	PASS
				AV	2390.000	-48.31	≤-41.20	46.89	≤54	PASS
				Peak	2310.000	-40.51	≤-21.20	54.69	≤74	PASS
				Peak	2351.740	-39.08	≤-21.20	56.12	≤74	PASS
				Peak	2390.000	-40.37	≤-21.20	54.83	≤74	PASS
		High	2462	AV	2483.500	-47.51	≤-41.20	47.69	≤54	PASS
				AV	2484.770	-47.54	≤-41.20	47.66	≤54	PASS
				AV	2500.000	-47.85	≤-41.20	47.35	≤54	PASS
				Peak	2483.500	-40.86	≤-21.20	54.34	≤74	PASS
				Peak	2483.670	-38.36	≤-21.20	56.84	≤74	PASS
				Peak	2500.000	-40.38	≤-21.20	54.82	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-49.03	≤-41.20	46.17	≤54	PASS
				AV	2389.830	-48.11	≤-41.20	47.09	≤54	PASS
				AV	2390.000	-48.29	≤-41.20	46.91	≤54	PASS
				Peak	2310.000	-40.36	≤-21.20	54.84	≤74	PASS
				Peak	2389.310	-38.07	≤-21.20	57.13	≤74	PASS
				Peak	2390.000	-40.13	≤-21.20	55.07	≤74	PASS
		High	2462	AV	2483.500	-47.65	≤-41.20	47.55	≤54	PASS
				AV	2497.860	-47.64	≤-41.20	47.56	≤54	PASS
				AV	2500.000	-47.84	≤-41.20	47.36	≤54	PASS
				Peak	2483.500	-39.96	≤-21.20	55.24	≤74	PASS
				Peak	2490.270	-38.33	≤-21.20	56.87	≤74	PASS
				Peak	2500.000	-41.37	≤-21.20	53.83	≤74	PASS
11N40SISO	Ant1	Low	2422	AV	2310.000	-48.69	≤-41.20	46.51	≤54	PASS



				AV	2388.530	-47.54	≤ -41.20	47.66	≤ 54	PASS
				AV	2390.000	-47.7	≤ -41.20	47.50	≤ 54	PASS
				Peak	2310.000	-41.99	≤ -21.20	53.21	≤ 74	PASS
				Peak	2369.810	-39.11	≤ -21.20	56.09	≤ 74	PASS
				Peak	2390.000	-41.4	≤ -21.20	53.80	≤ 74	PASS
		High	2452	AV	2483.500	-46.99	≤ -41.20	48.21	≤ 54	PASS
				AV	2484.330	-46.92	≤ -41.20	48.28	≤ 54	PASS
				AV	2500.000	-47.72	≤ -41.20	47.48	≤ 54	PASS
				Peak	2483.500	-40.03	≤ -21.20	55.17	≤ 74	PASS
				Peak	2483.560	-37.03	≤ -21.20	58.17	≤ 74	PASS
				Peak	2500.000	-41.45	≤ -21.20	53.75	≤ 74	PASS

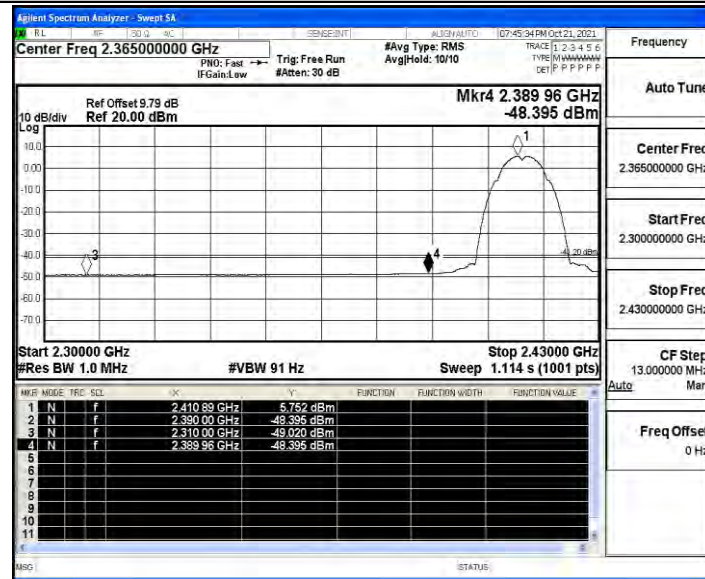
Note:

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.

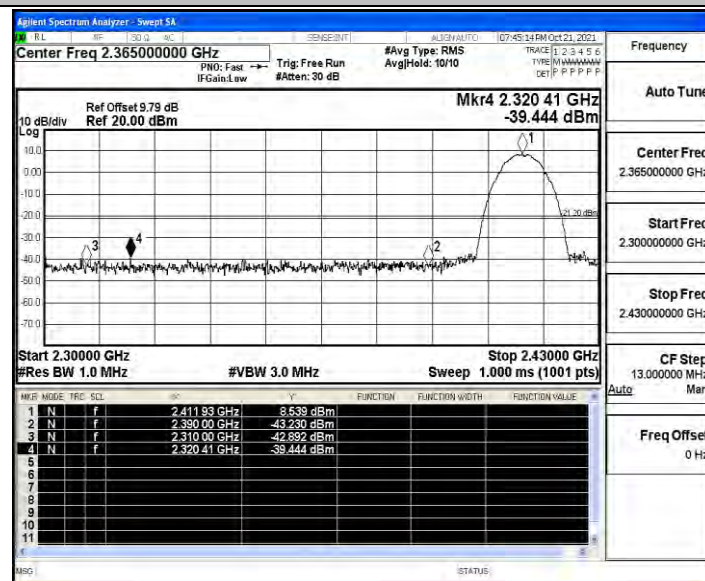


Test Graphs

11B_Ant1_Low_2412_AV

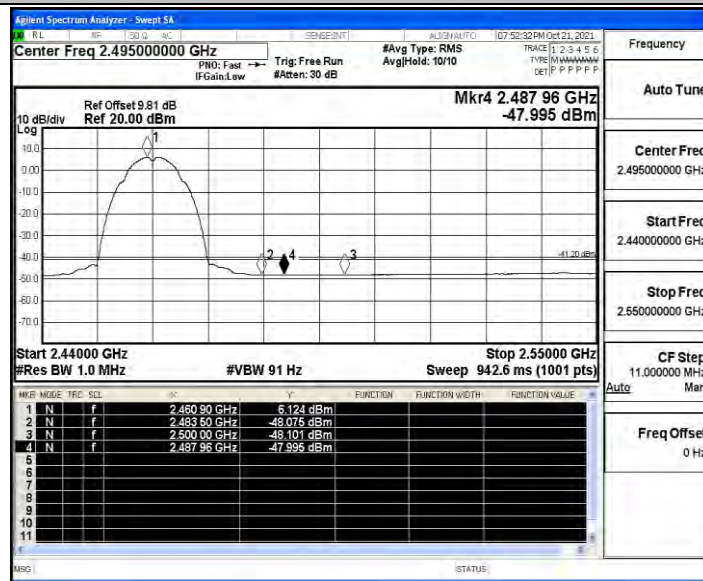


11B_Ant1_Low_2412_Peak

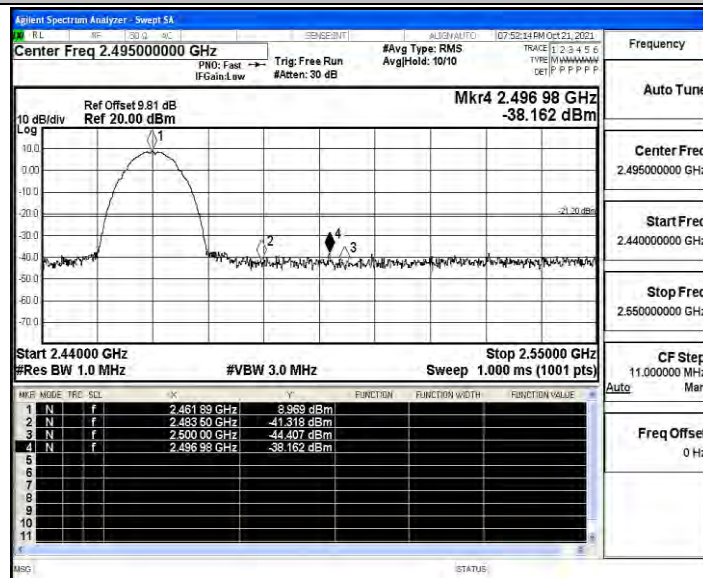




11B_Ant1_High_2462_AV

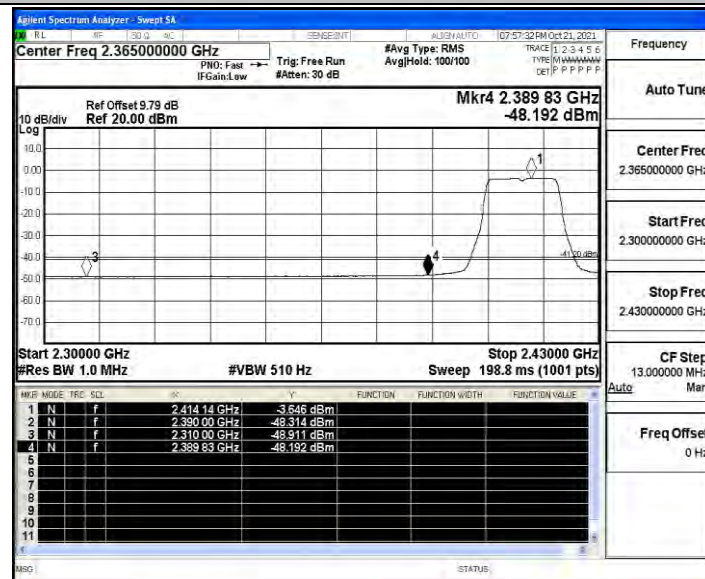


11B_Ant1_High_2462_Peak

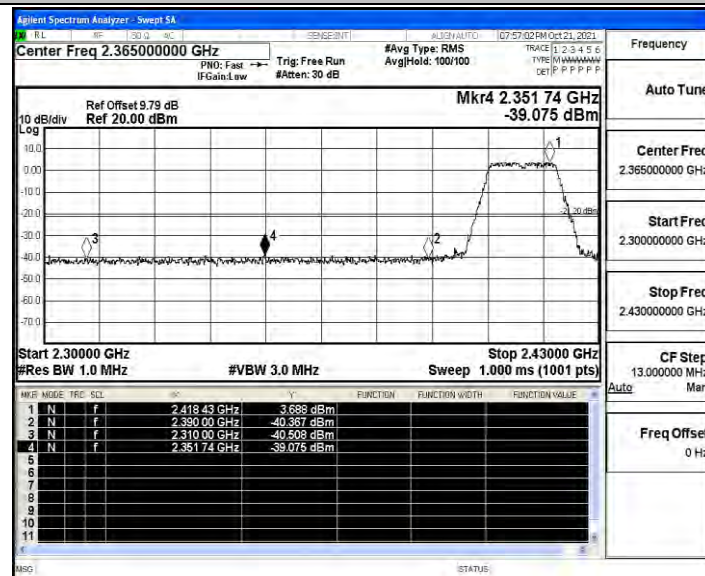




11G_Ant1_Low_2412_AV

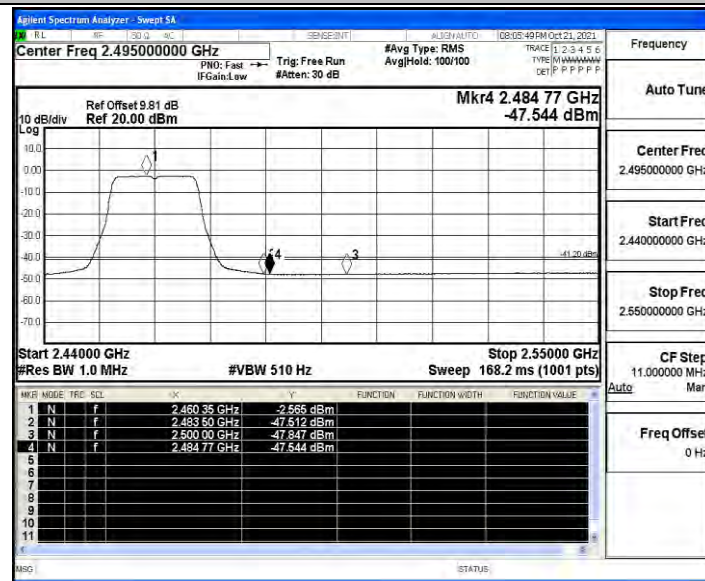


11G_Ant1_Low_2412_Peak

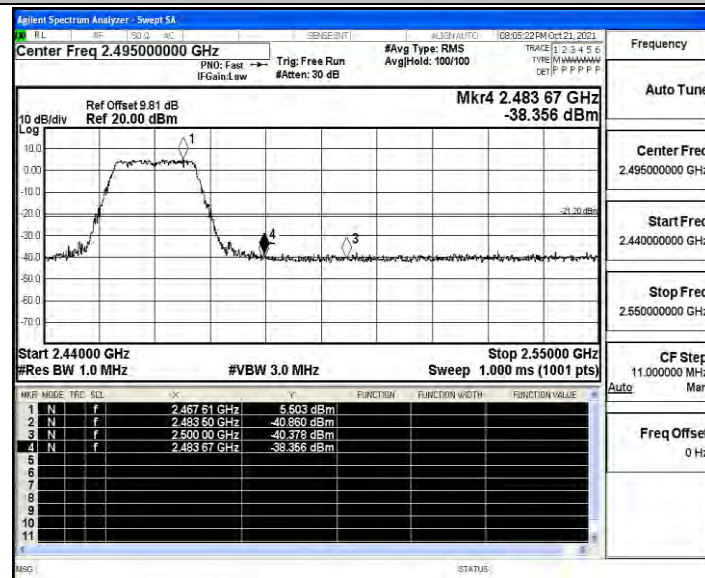




11G_Ant1_High_2462_AV

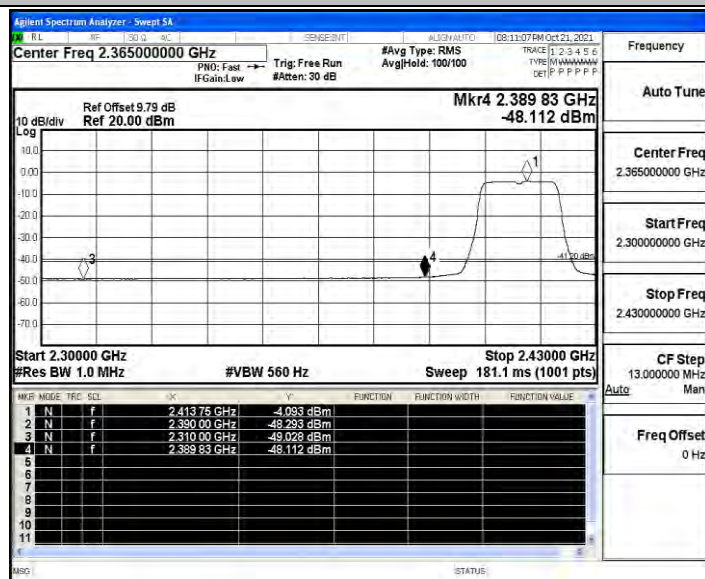


11G_Ant1_High_2462_Peak

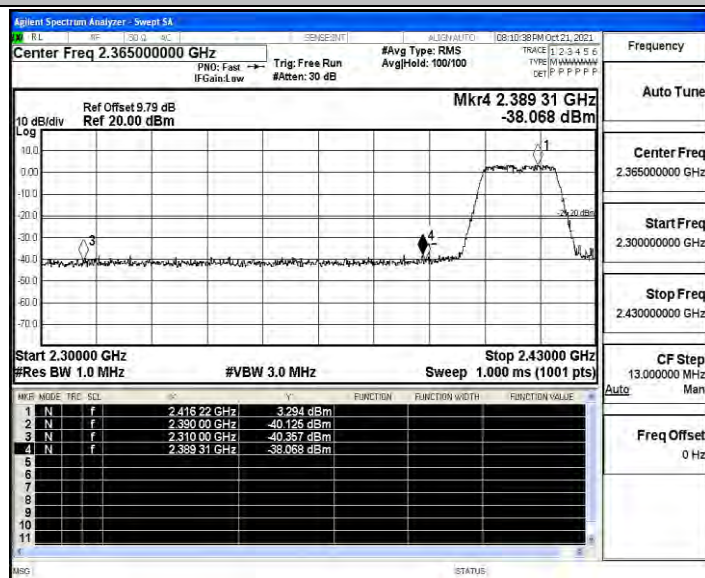




11N20SISO_Ant1_Low_2412_AV

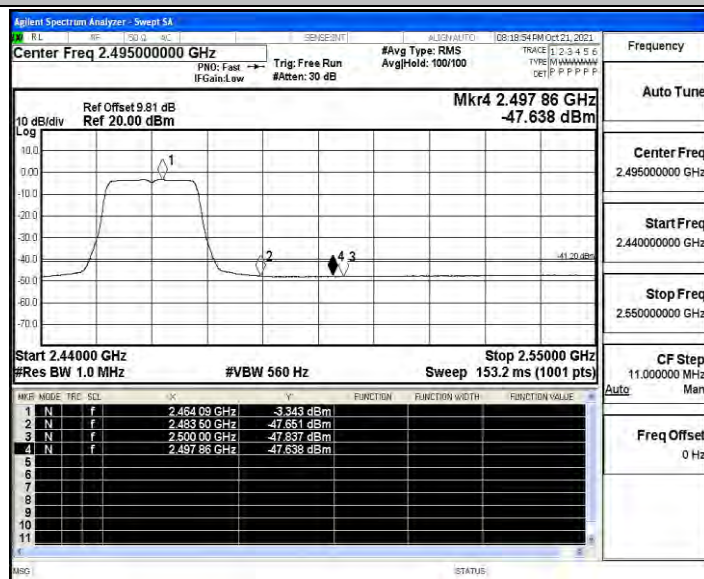


11N20SISO_Ant1_Low_2412_Peak

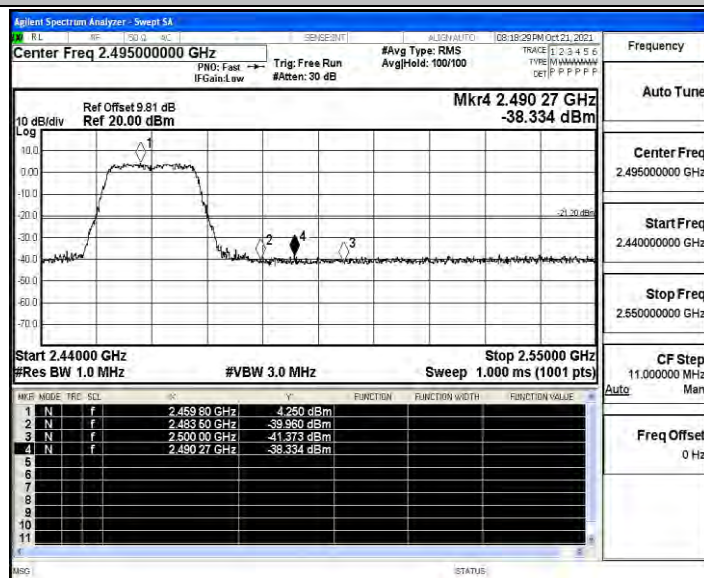




11N20SISO_Ant1_High_2462_AV

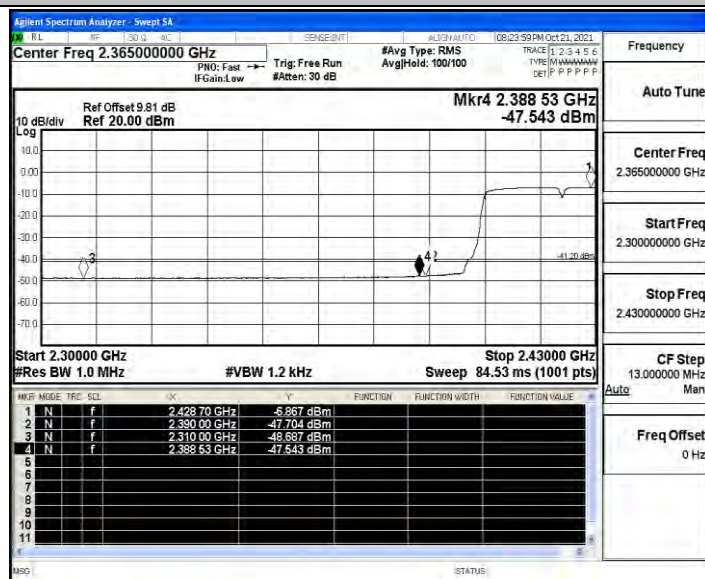


11N20SISO_Ant1_High_2462_Peak

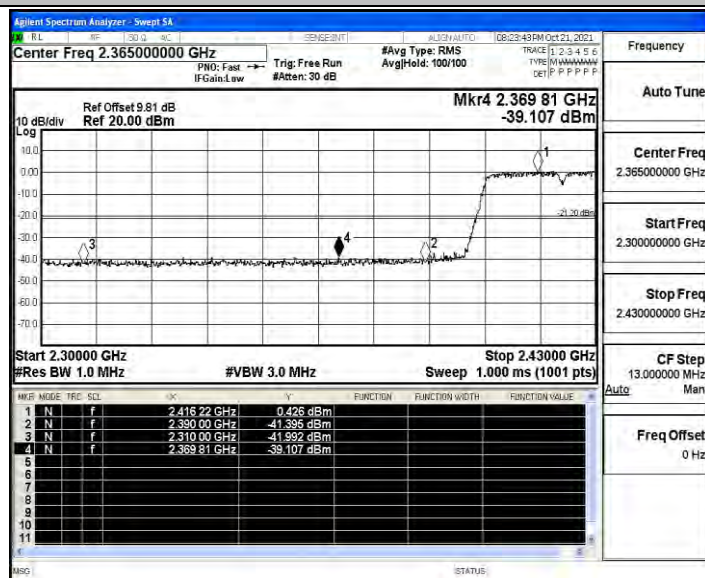




11N40SISO_Ant1_Low_2422_AV

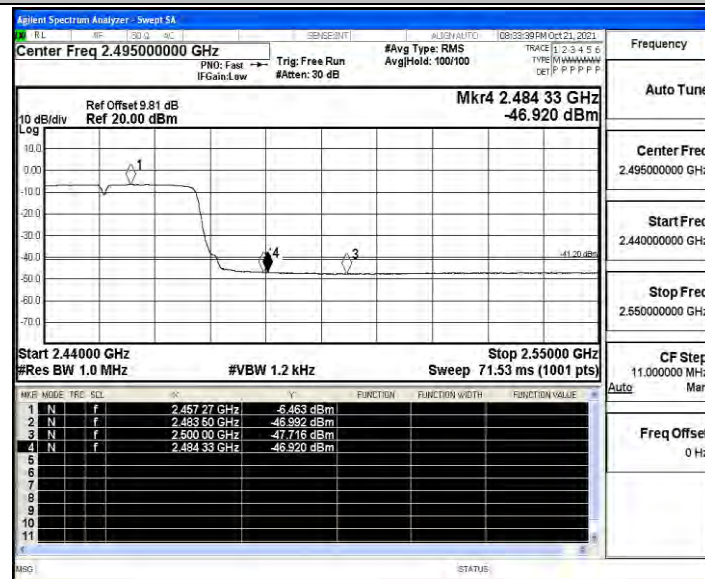


11N40SISO_Ant1_Low_2422_Peak





11N40SISO_Ant1_High_2452_AV



11N40SISO_Ant1_High_2452_Peak

