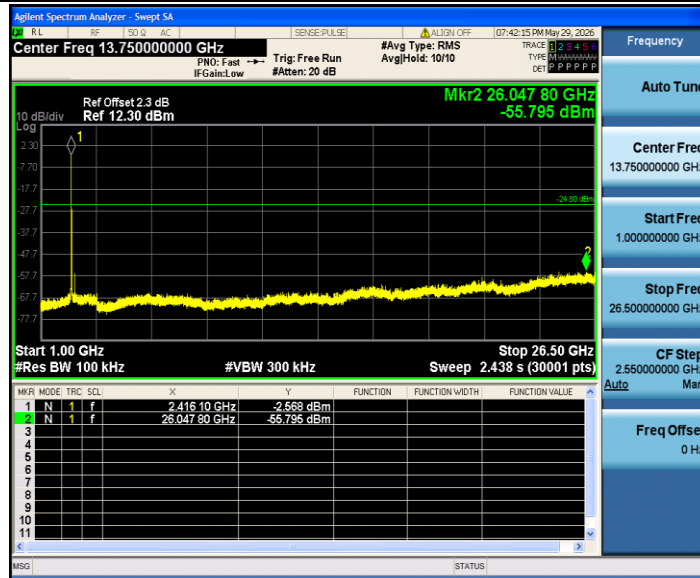


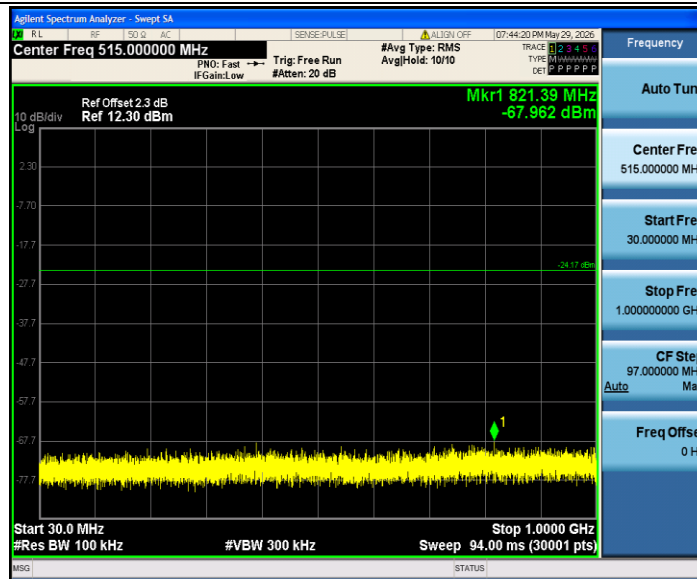
11N20SISO_Ant0_2412_1000~26500



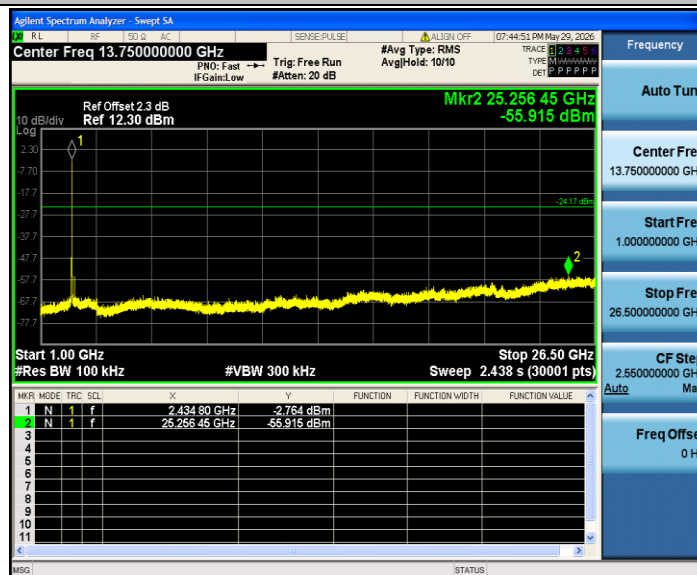
11N20SISO_Ant0_2437_0~Reference



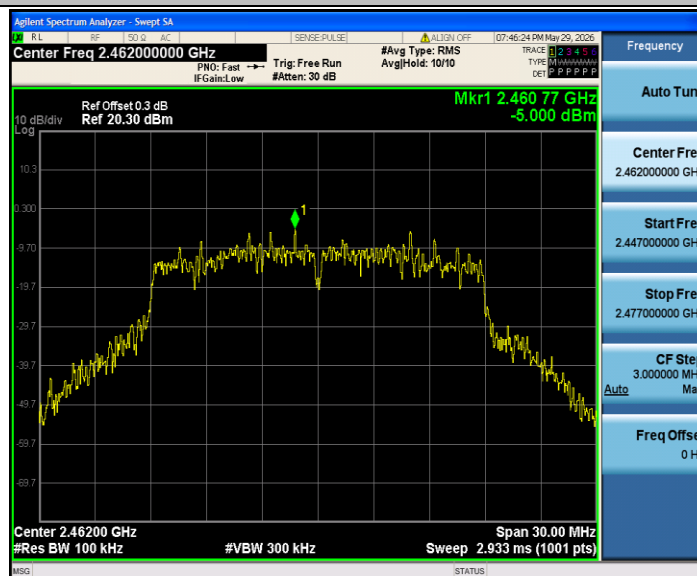
11N20SISO_Ant0_2437_30~1000



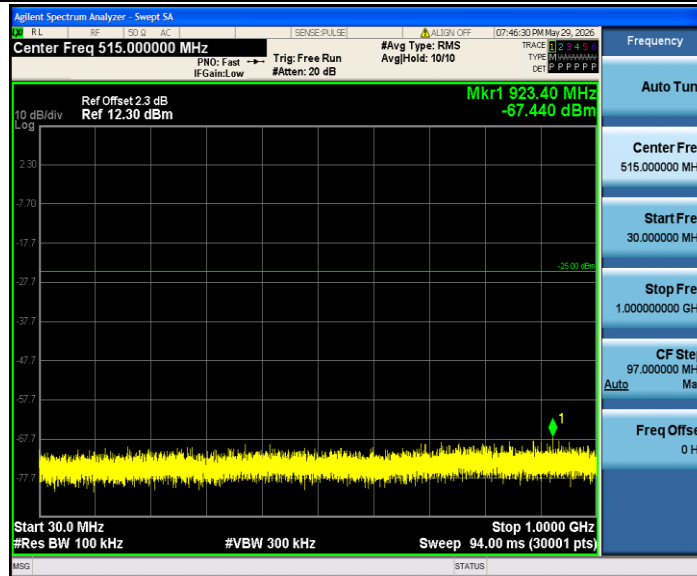
11N20SISO_Ant0_2437_1000~26500



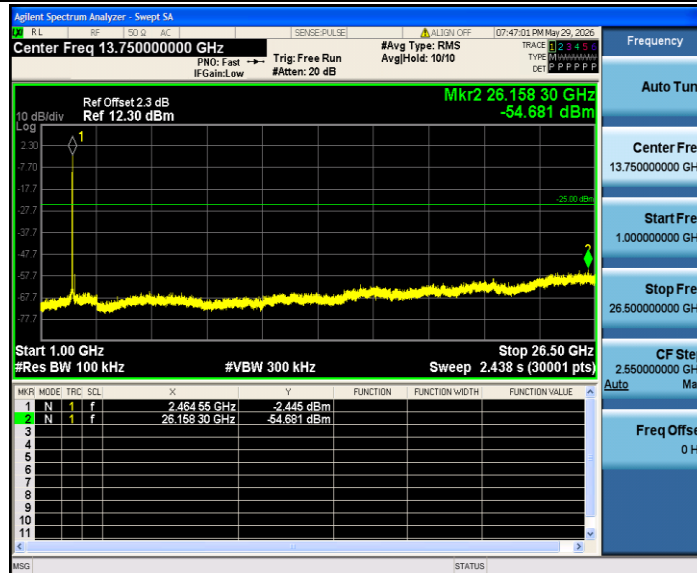
11N20SISO_Ant0_2462_0~Reference



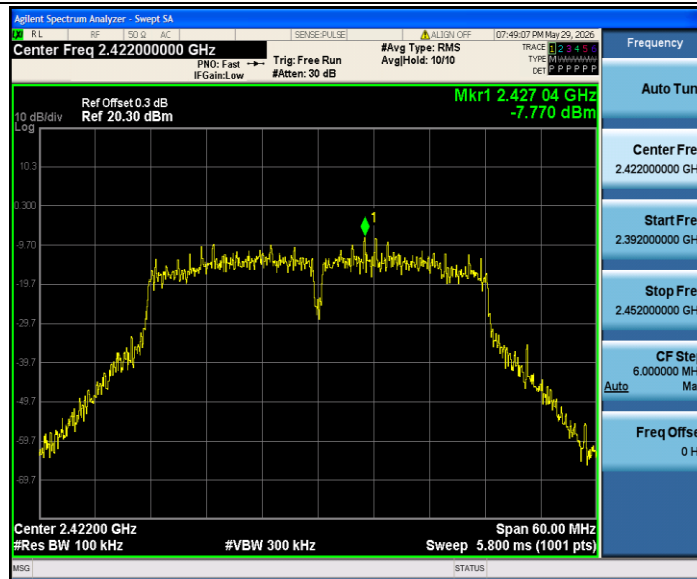
11N20SISO_Ant0_2462_30~1000



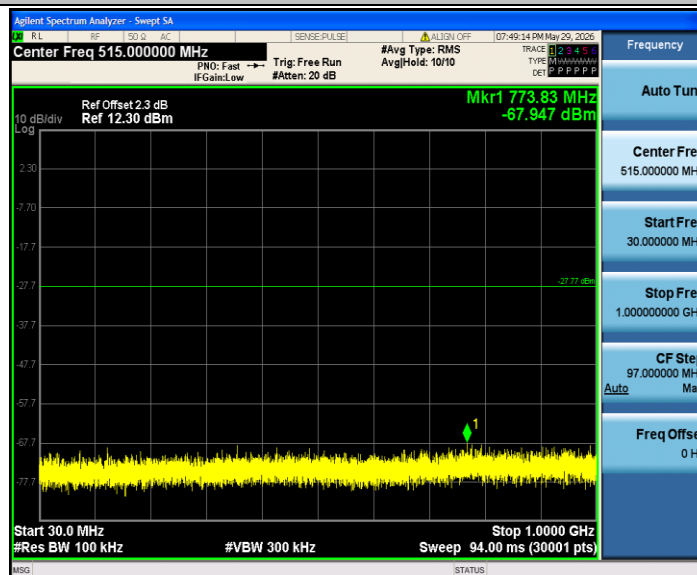
11N20SISO_Ant0_2462_1000~26500



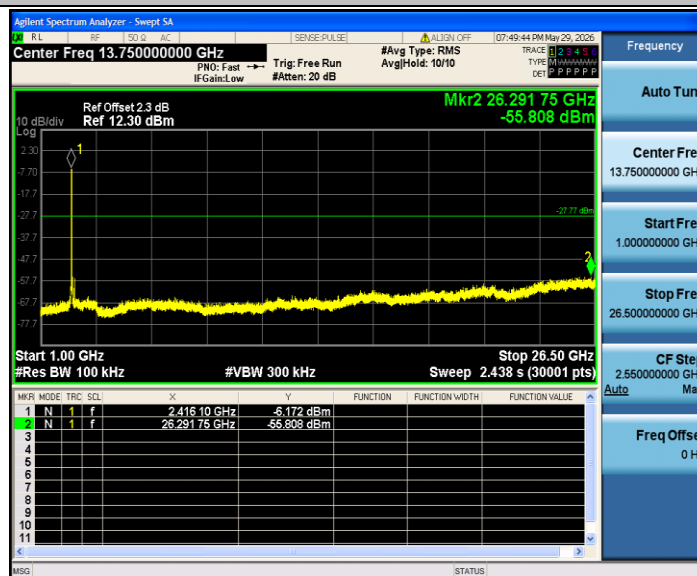
11N40SISO_Ant0_2422_0~Reference



11N40SISO_Ant0_2422_30~1000



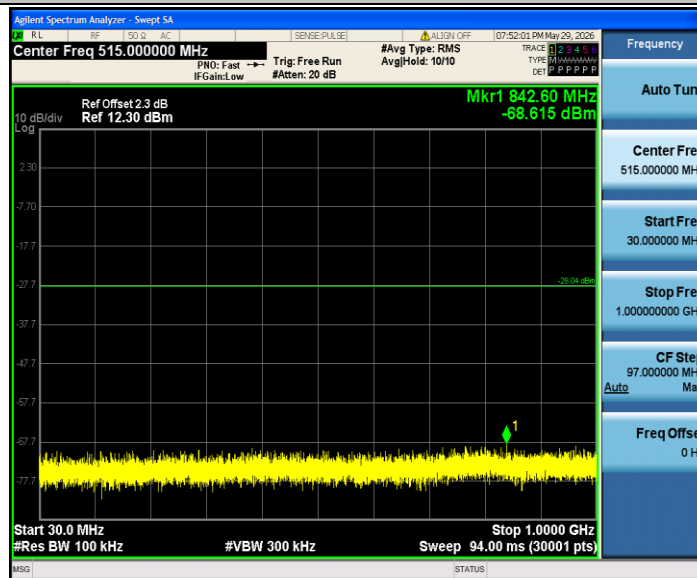
11N40SISO_Ant0_2422_1000~26500



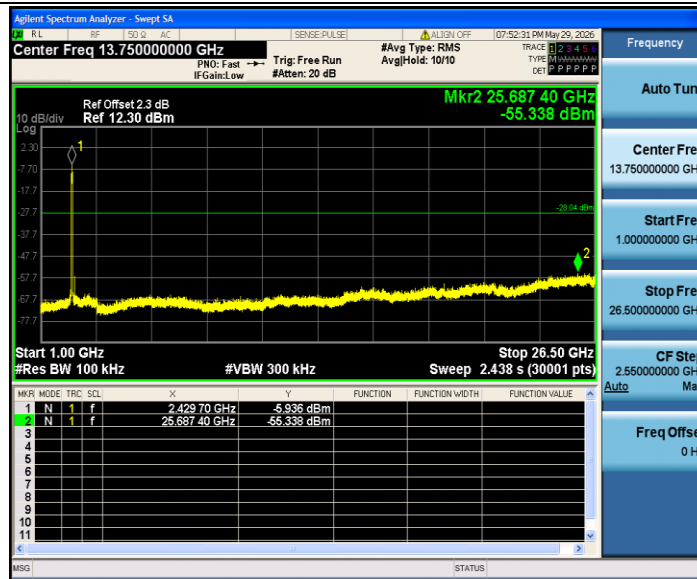
11N40SISO_Ant0_2437_0~Reference



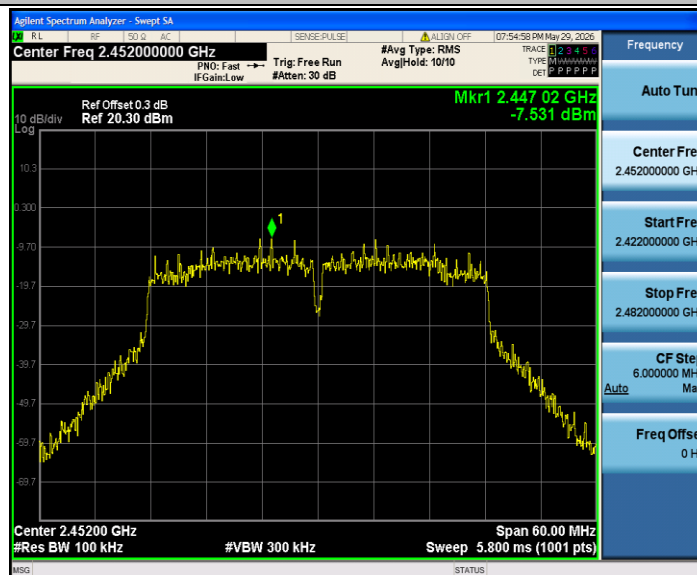
11N40SISO_Ant0_2437_30~1000



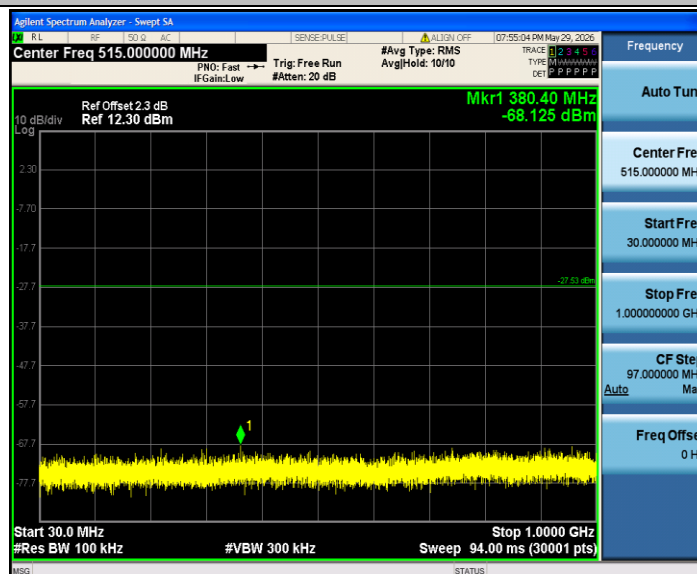
11N40SISO_Ant0_2437_1000~26500



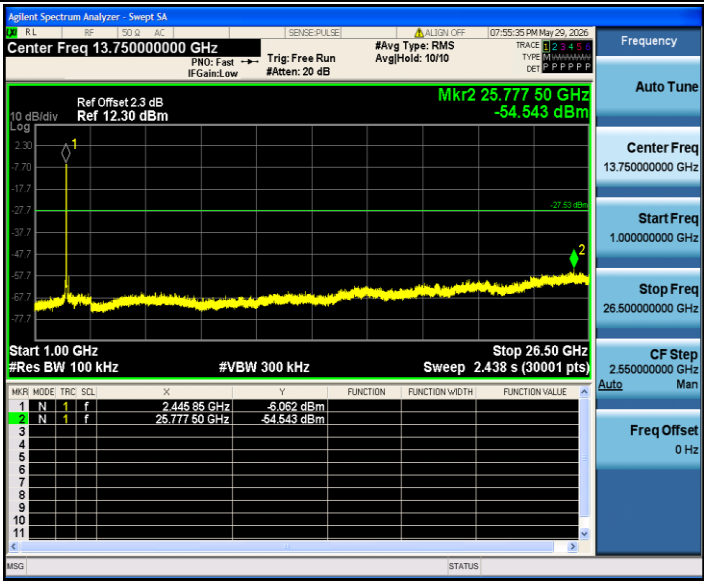
11N40SISO_Ant0_2452_0~Reference



11N40SISO_Ant0_2452_30~1000



11N40SISO_Ant0_2452_1000~26500



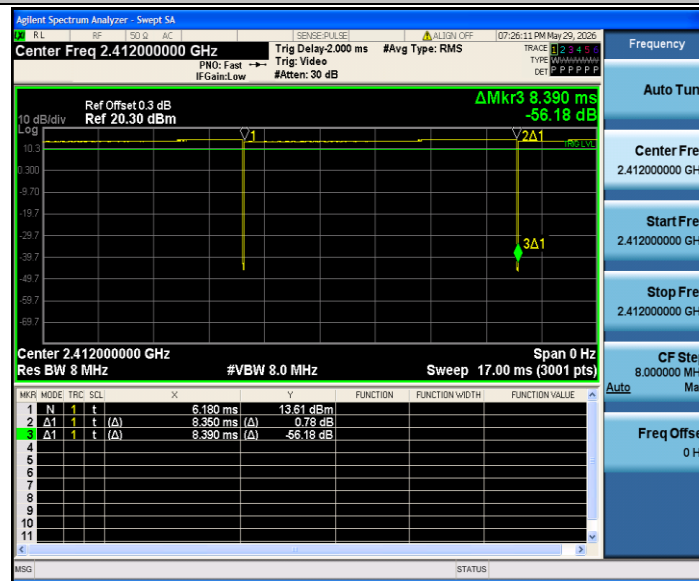
Appendix G: Duty Cycle

Test Result

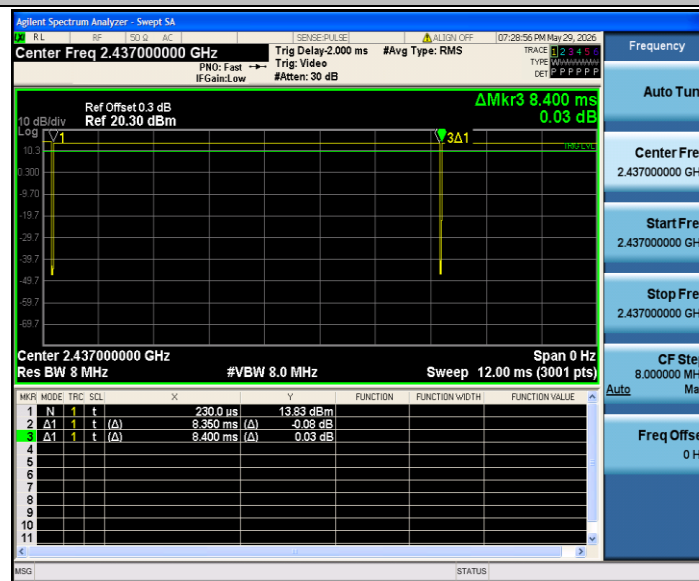
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	T Factor [dB]
11B	Ant0	2412	8.35	8.39	99.52	0.02	0.12
		2437	8.35	8.40	99.40	0.03	0.12
		2462	8.35	8.40	99.40	0.03	0.12
11G	Ant0	2412	0.15	0.20	75.00	1.25	6.67
		2437	0.15	0.19	78.95	1.03	6.67
		2462	0.15	0.20	75.00	1.25	6.67
11N20SISO	Ant0	2412	0.18	0.23	78.26	1.06	5.56
		2437	0.17	0.22	77.27	1.12	5.88
		2462	0.18	0.23	78.26	1.06	5.56
11N40SISO	Ant0	2422	0.18	0.23	78.26	1.06	5.56
		2437	0.18	0.23	78.26	1.06	5.56
		2452	0.18	0.23	78.26	1.06	5.56

Test Graphs

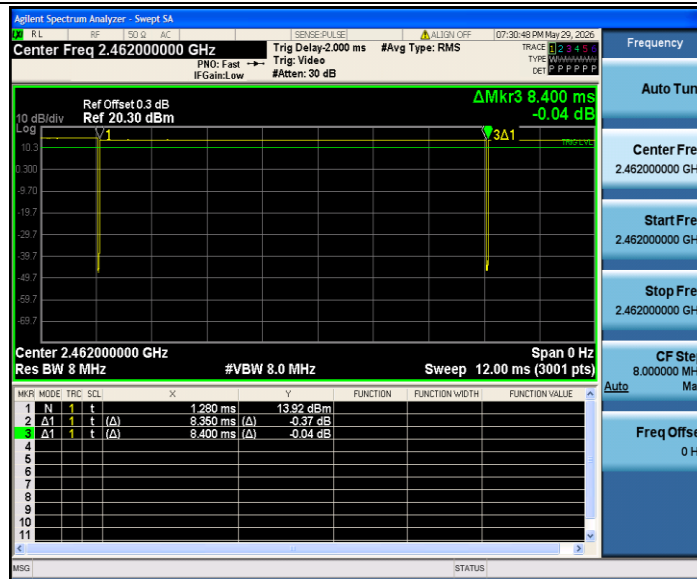
11B_Ant0_2412



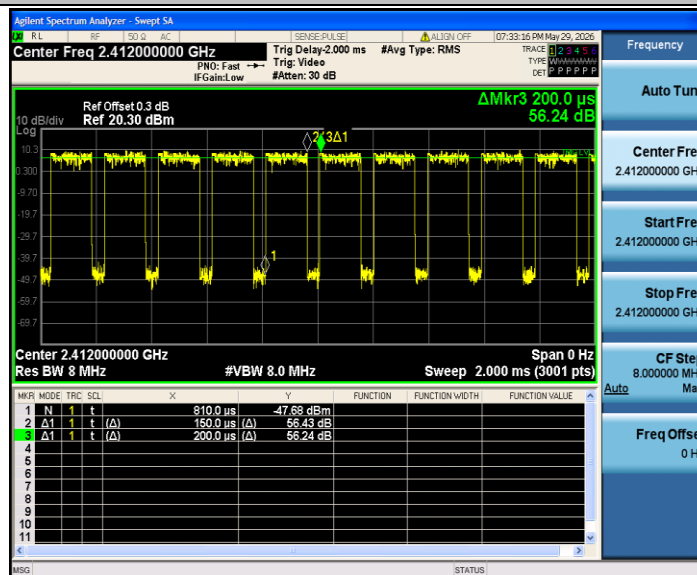
11B_Ant0_2437



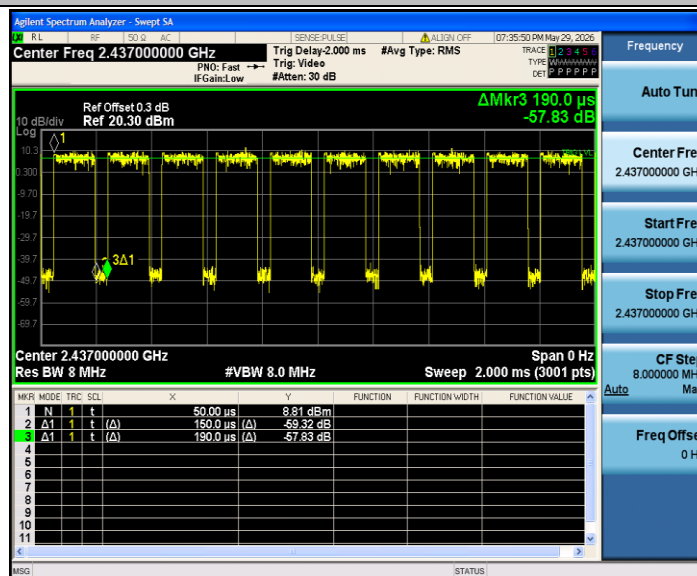
11B_Ant0_2462



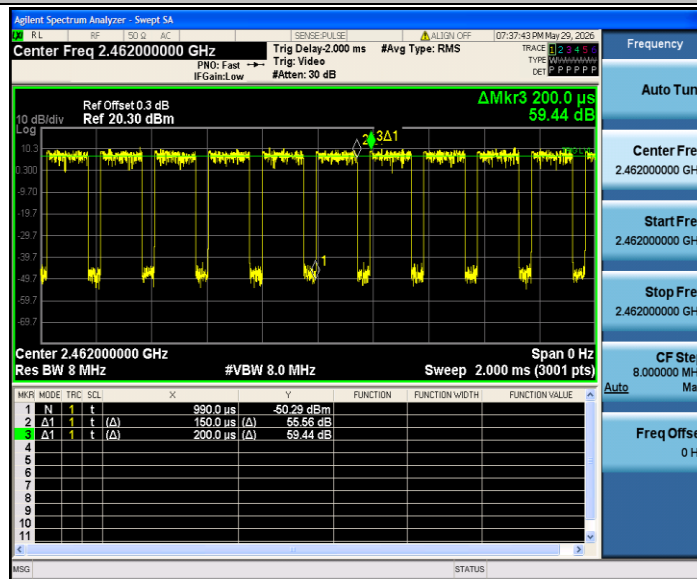
11G_Ant0_2412



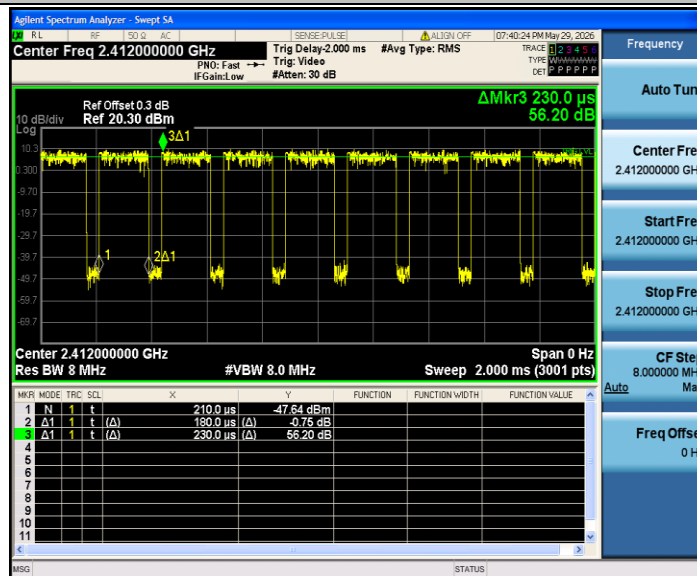
11G_Ant0_2437



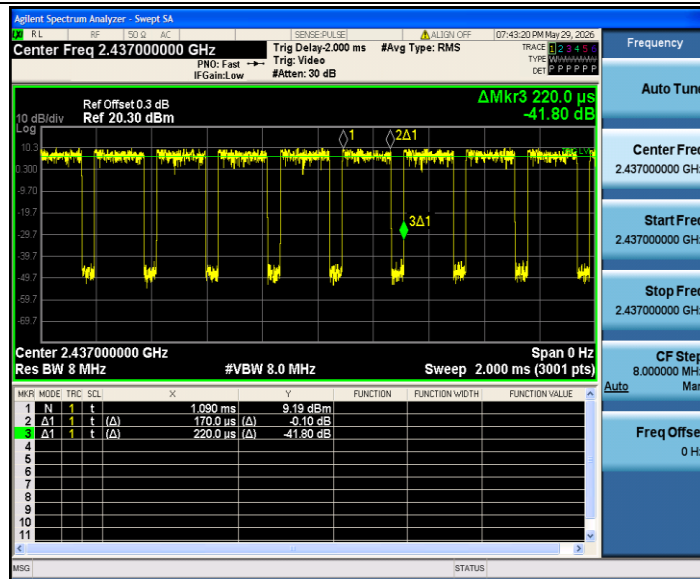
11G_Ant0_2462



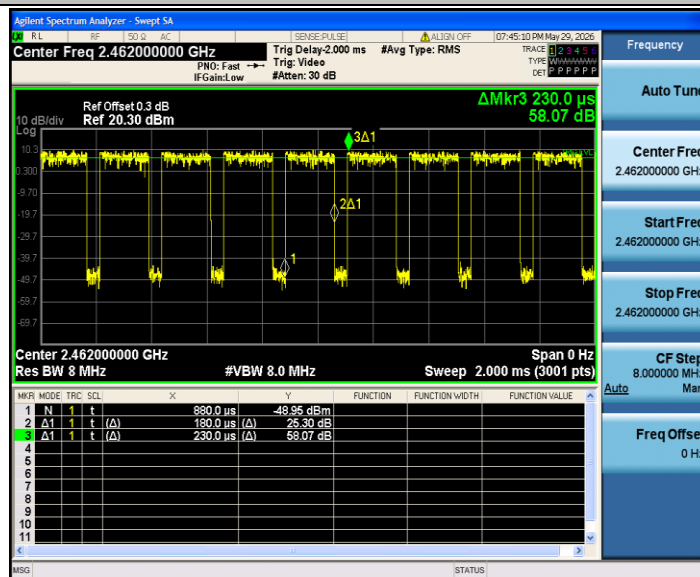
11N20SISO_Ant0_2412



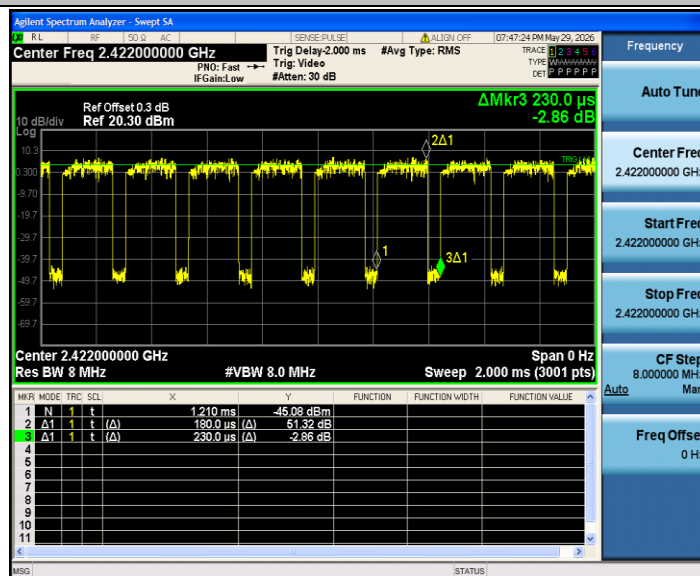
11N20SISO_Ant0_2437



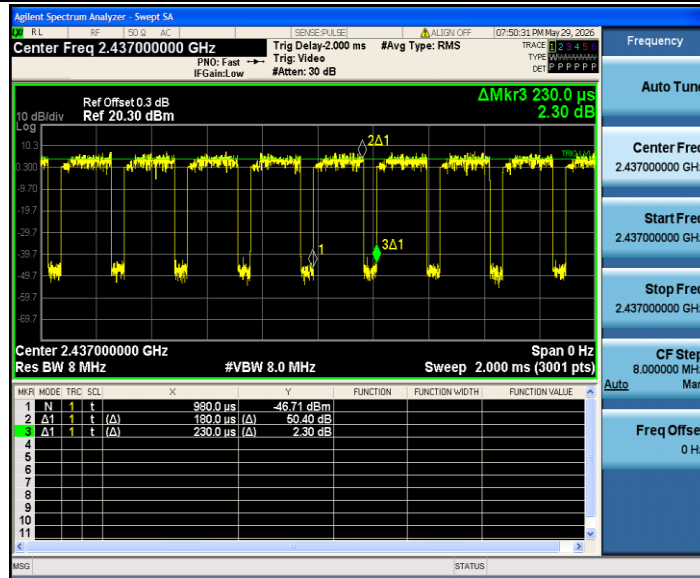
11N20SISO_Ant0_2462



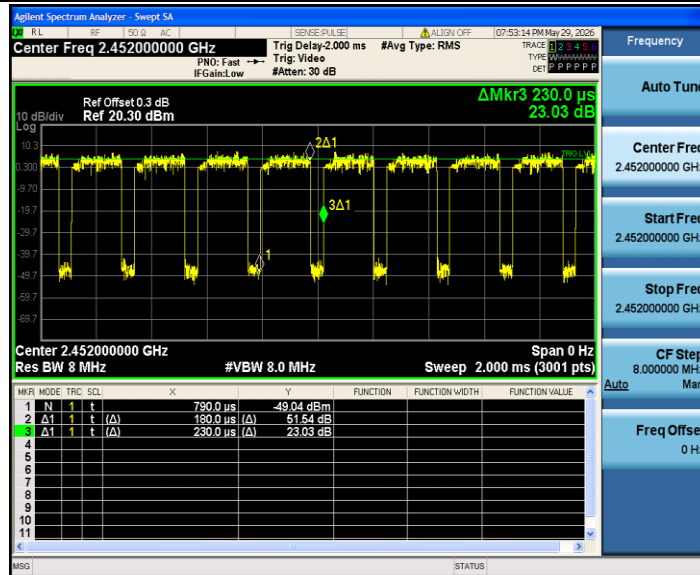
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452



Appendix H: Emissions in Restricted Bands

Test Result

TestMod e	Antenn a	ChNam e	Frequen cy[MHz]	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant0	Low	2412	AV	2310.000	-60.09	4.04	0.02	39.17	≤54	PASS
				AV	2389.830	-57.29	4.04	0.02	41.97	≤54	PASS
				AV	2390.000	-58.29	4.04	0.02	40.97	≤54	PASS
				Peak	2310.000	-51.96	4.04	0.00	47.28	≤74	PASS
				Peak	2388.270	-48.98	4.04	0.00	50.26	≤74	PASS
				Peak	2390.000	-49.56	4.04	0.00	49.68	≤74	PASS
		High	2462	AV	2483.500	-58.75	4.04	0.03	40.52	≤54	PASS
				AV	2484.220	-57.69	4.04	0.03	41.58	≤54	PASS
				AV	2500.000	-58.74	4.04	0.03	40.53	≤54	PASS
				Peak	2483.500	-49.98	4.04	0.00	49.26	≤74	PASS
				Peak	2493.460	-48.08	4.04	0.00	51.16	≤74	PASS
				Peak	2500.000	-51.06	4.04	0.00	48.18	≤74	PASS
11G	Ant0	Low	2412	AV	2310.000	-60.55	4.04	1.25	39.94	≤54	PASS
				AV	2380.990	-58.87	4.04	1.25	41.62	≤54	PASS
				AV	2390.000	-59.06	4.04	1.25	41.43	≤54	PASS
				Peak	2310.000	-51.72	4.04	0.00	47.52	≤74	PASS
				Peak	2377.350	-47.45	4.04	0.00	51.79	≤74	PASS
				Peak	2390.000	-51.17	4.04	0.00	48.07	≤74	PASS
		High	2462	AV	2483.500	-59.33	4.04	1.25	41.16	≤54	PASS
				AV	2489.610	-58.53	4.04	1.25	41.96	≤54	PASS
				AV	2500.000	-59.1	4.04	1.25	41.39	≤54	PASS
				Peak	2483.500	-51.38	4.04	0.00	47.86	≤74	PASS
				Peak	2498.080	-48.67	4.04	0.00	50.57	≤74	PASS
				Peak	2500.000	-50.05	4.04	0.00	49.19	≤74	PASS
11N20SI SO	Ant0	Low	2412	AV	2310.000	-59.78	4.04	1.06	40.52	≤54	PASS
				AV	2389.310	-58.72	4.04	1.06	41.58	≤54	PASS
				AV	2390.000	-58.99	4.04	1.06	41.31	≤54	PASS
				Peak	2310.000	-50.1	4.04	0.00	49.14	≤74	PASS
				Peak	2379.950	-48.34	4.04	0.00	50.9	≤74	PASS
				Peak	2390.000	-51.08	4.04	0.00	48.16	≤74	PASS
		High	2462	AV	2483.500	-58.85	4.04	1.06	41.45	≤54	PASS
				AV	2490.710	-58.23	4.04	1.06	42.07	≤54	PASS
				AV	2500.000	-59.39	4.04	1.06	40.91	≤54	PASS
				Peak	2483.500	-51.01	4.04	0.00	48.23	≤74	PASS
				Peak	2488.840	-48.25	4.04	0.00	50.99	≤74	PASS
				Peak	2500.000	-51.54	4.04	0.00	47.7	≤74	PASS

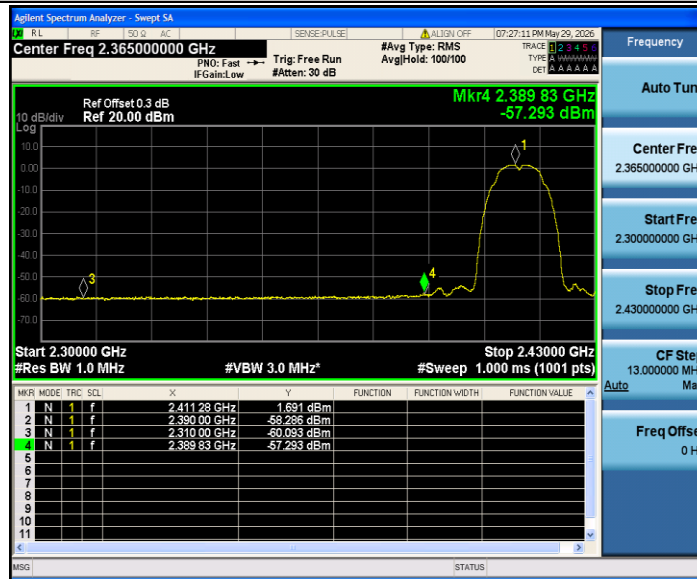
11N40SI SO	Ant0	Low	2422	AV	2310.000	-59.91	4.04	1.06	40.39	≤54	PASS
				AV	2386.850	-58.11	4.04	1.06	42.19	≤54	PASS
				AV	2390.000	-58.24	4.04	1.06	42.06	≤54	PASS
				Peak	2310.000	-53.03	4.04	0.00	46.21	≤74	PASS
				Peak	2389.700	-48.51	4.04	0.00	50.73	≤74	PASS
				Peak	2390.000	-51.07	4.04	0.00	48.17	≤74	PASS
		High	2452	AV	2483.500	-58.19	4.04	1.06	42.11	≤54	PASS
				AV	2483.875	-57.75	4.04	1.06	42.55	≤54	PASS
				AV	2500.000	-59.19	4.04	1.06	41.11	≤54	PASS
				Peak	2483.500	-51.29	4.04	0.00	47.95	≤74	PASS
				Peak	2485.375	-48.35	4.04	0.00	50.89	≤74	PASS
				Peak	2500.000	-51.62	4.04	0.00	47.62	≤74	PASS

Note:

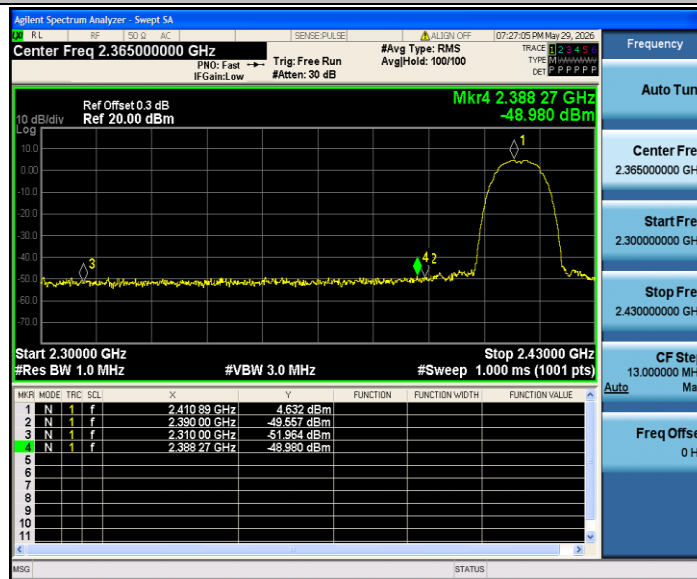
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

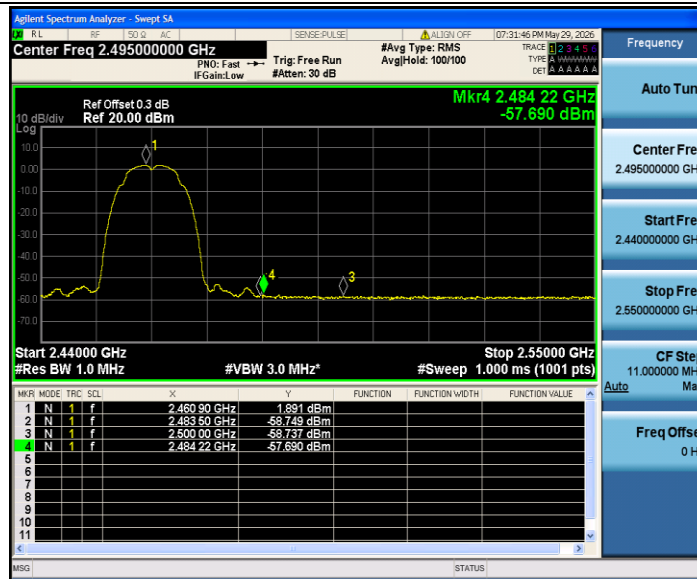
11B_Ant0_Low_2412_AV



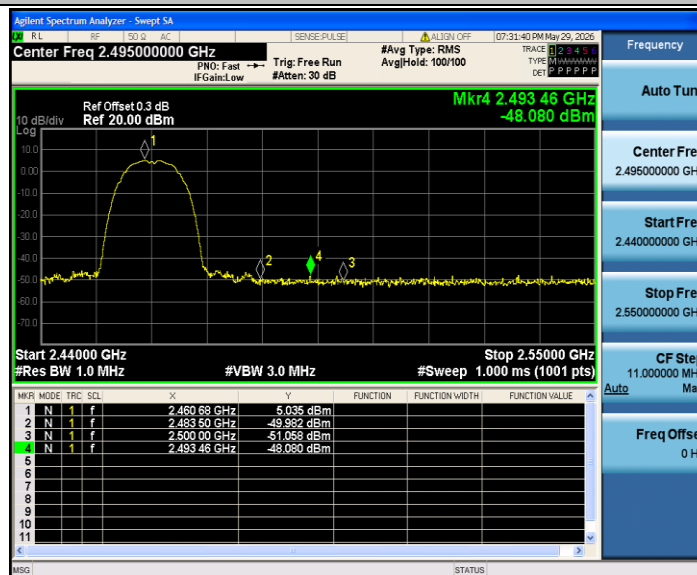
11B_Ant0_Low_2412_Peak



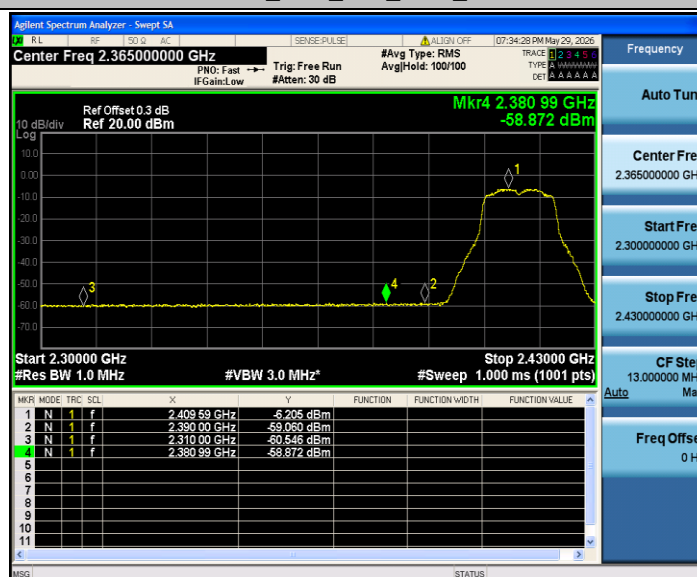
11B_Ant0_High_2462_AV



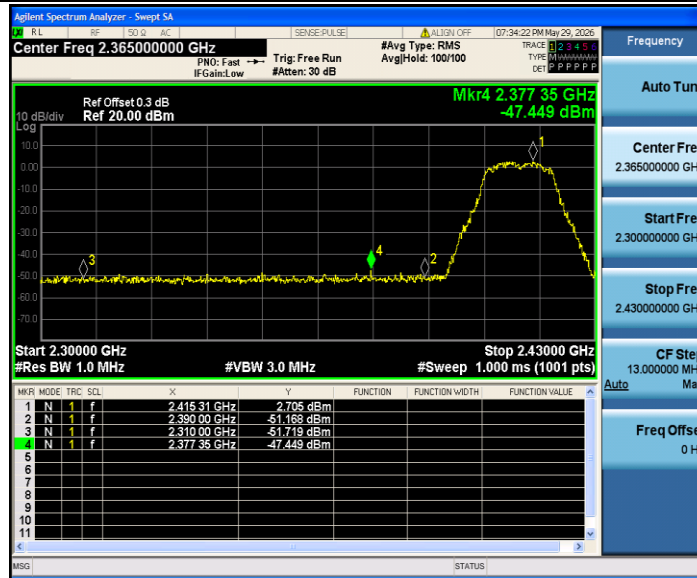
11B_Ant0_High_2462_Peak



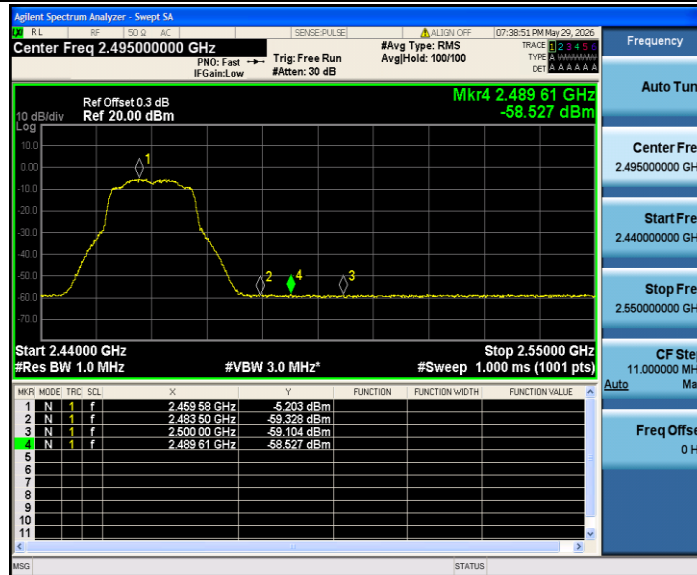
11G_Ant0_Low_2412_AV



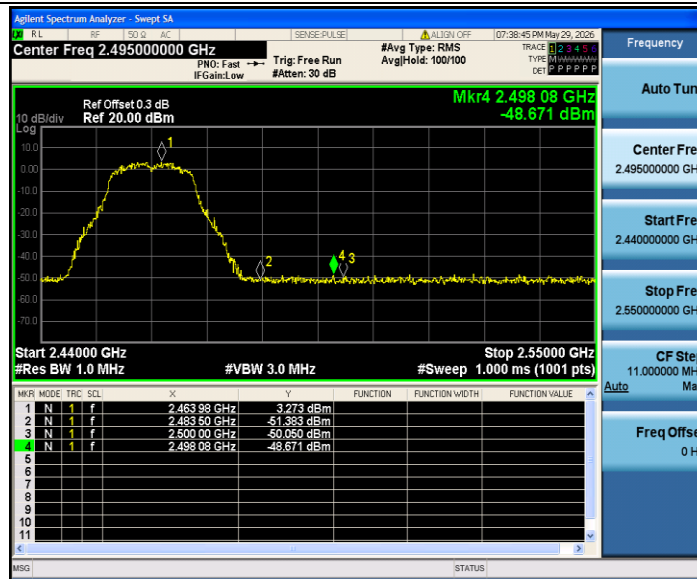
11G_Ant0_Low_2412_Peak



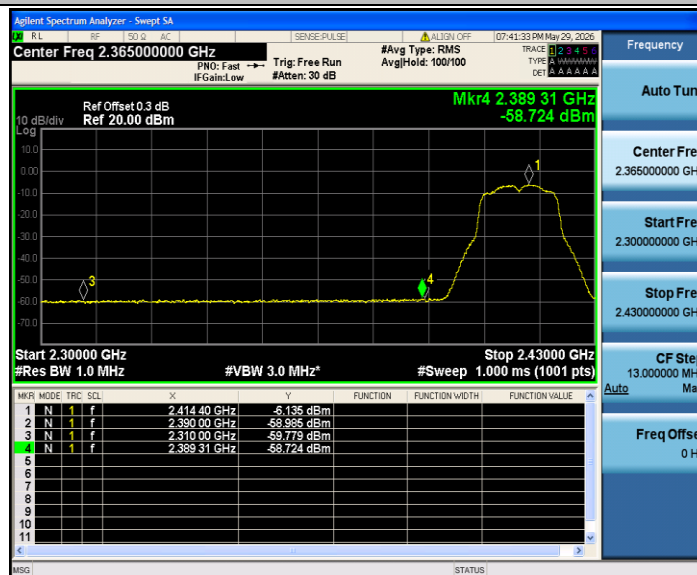
11G_Ant0_High_2462_AV



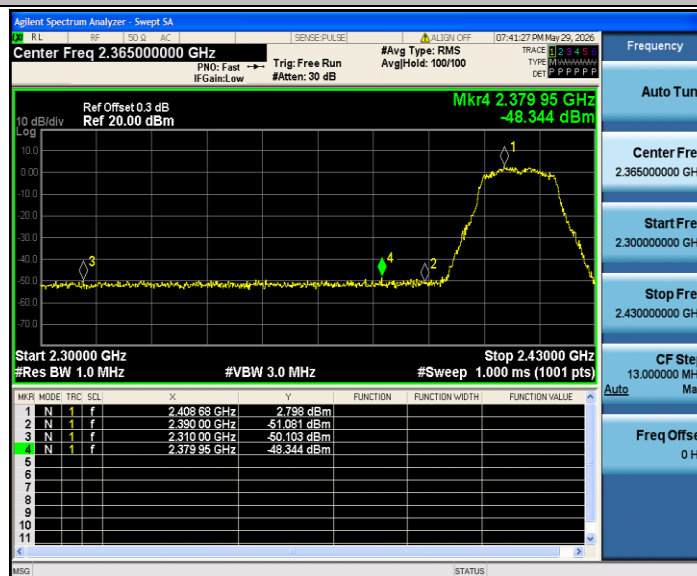
11G_Ant0_High_2462_Peak



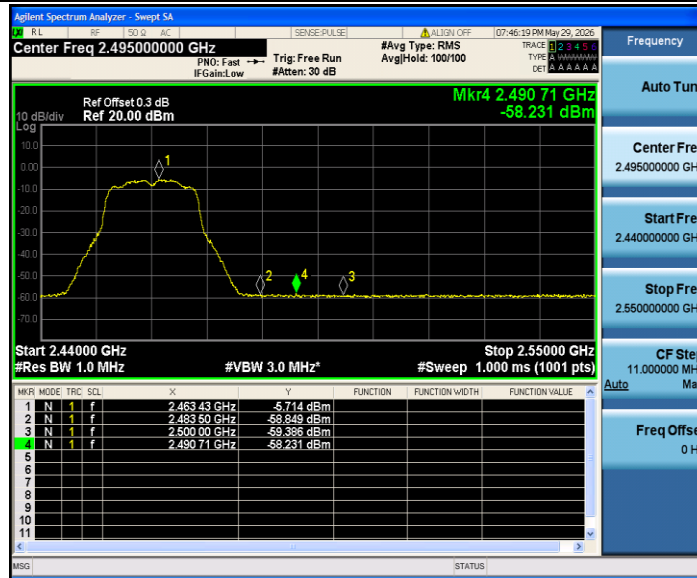
11N20SISO_Ant0_Low_2412_AV



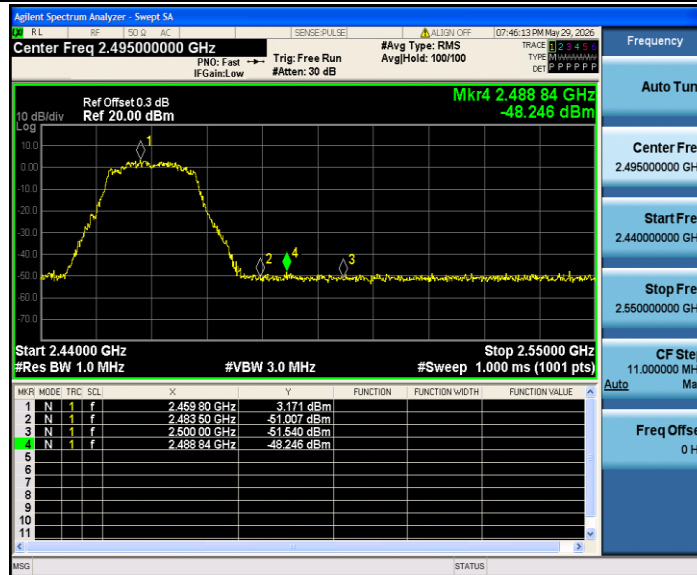
11N20SISO_Ant0_Low_2412_Peak



11N20SISO_Ant0_High_2462_AV



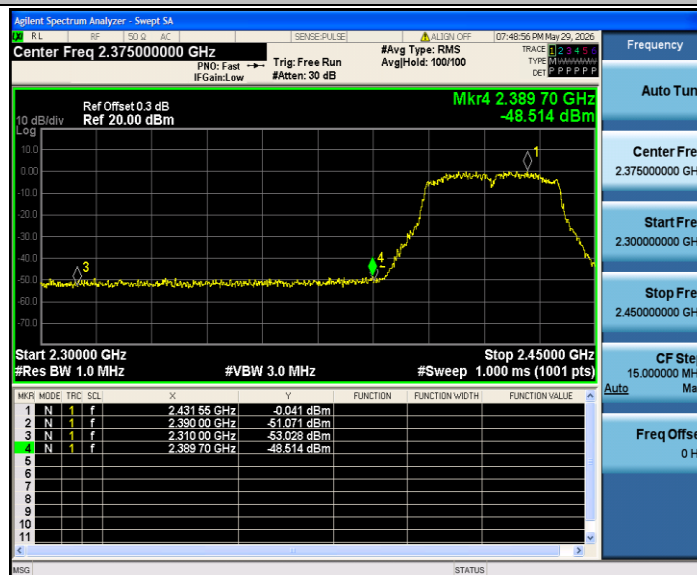
11N20SISO_Ant0_High_2462_Peak



11N40SISO_Ant0_Low_2422_AV



11N40SISO_Ant0_Low_2422_Peak



11N40SISO_Ant0_High_2452_AV



11N40SISO_Ant0_High_2452_Peak



FCC Appendix RF Test Data for 2.4GWIFI Antenna 1

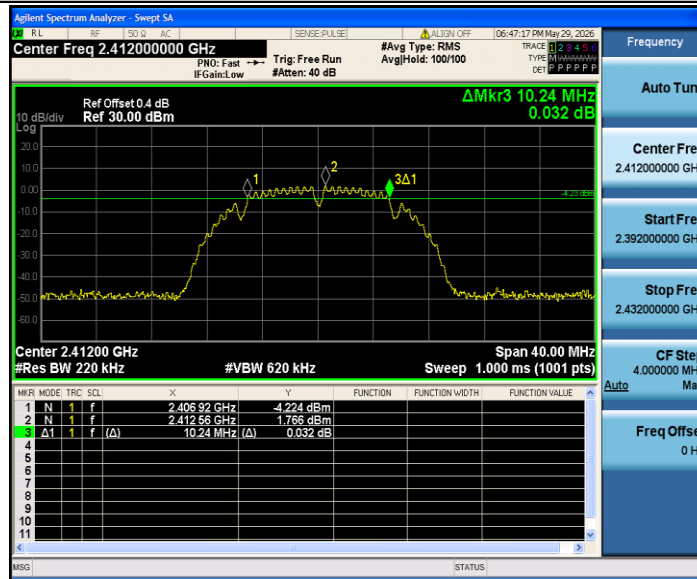
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	16.000	2404.000	2420.000	0.5	PASS
		2437	15.840	2429.000	2444.840	0.5	PASS
		2462	15.840	2454.080	2469.920	0.5	PASS
11N20SISO	Ant1	2412	16.760	2403.440	2420.200	0.5	PASS
		2437	16.760	2428.880	2445.640	0.5	PASS
		2462	17.000	2453.480	2470.480	0.5	PASS
11N40SISO	Ant1	2422	34.080	2405.200	2439.280	0.5	PASS
		2437	34.720	2419.880	2454.600	0.5	PASS
		2452	35.200	2434.880	2470.080	0.5	PASS

Test Graphs

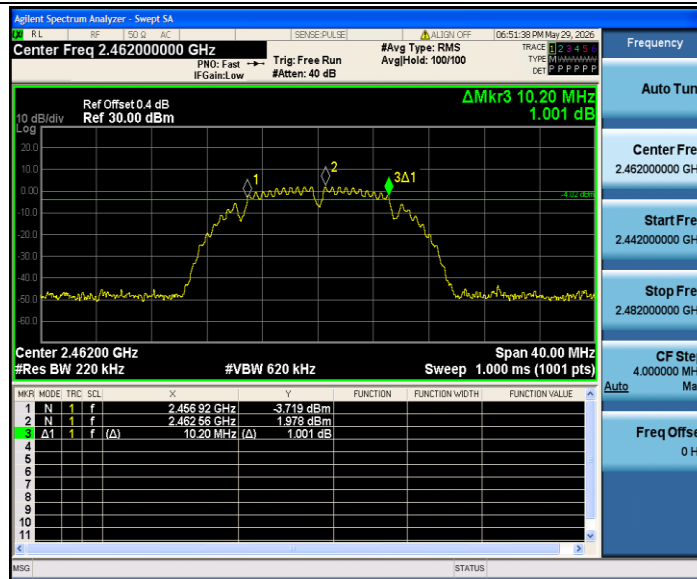
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



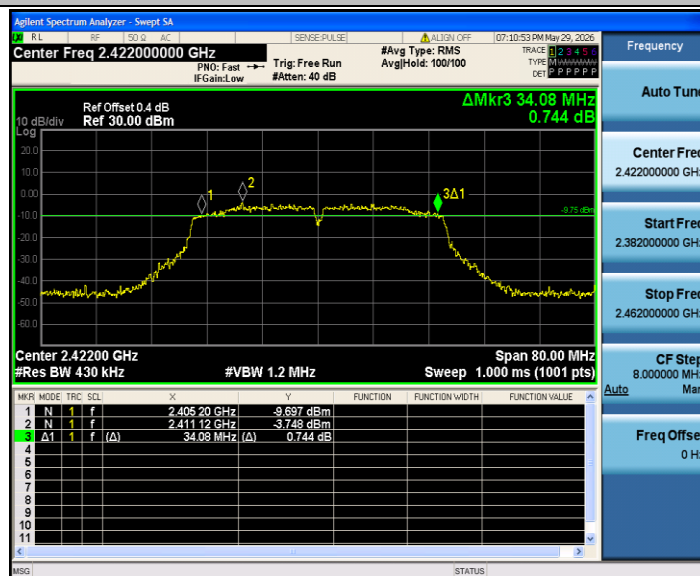
11N20SISO_Ant1_2437



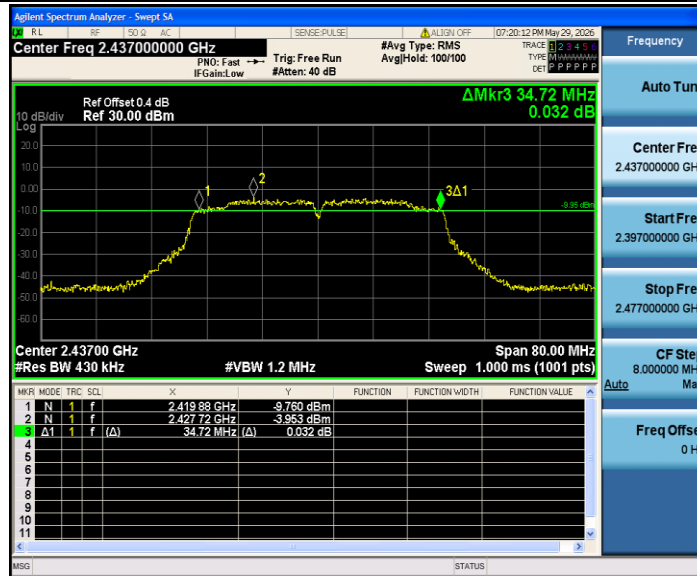
11N20SISO_Ant1_2462



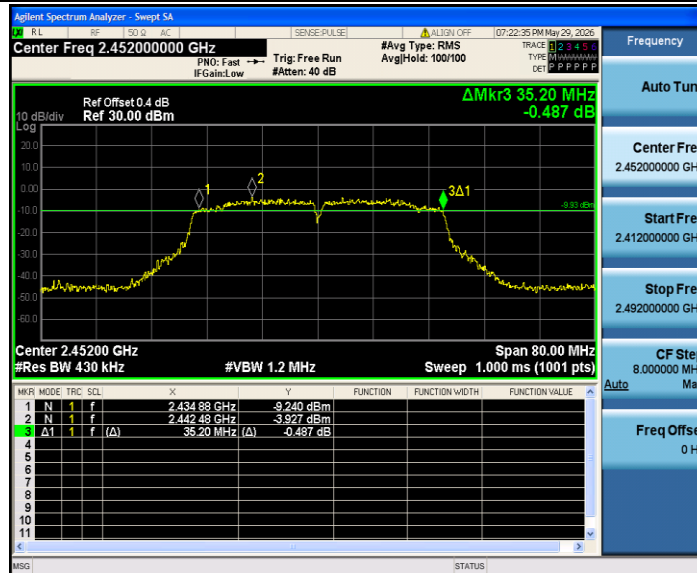
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



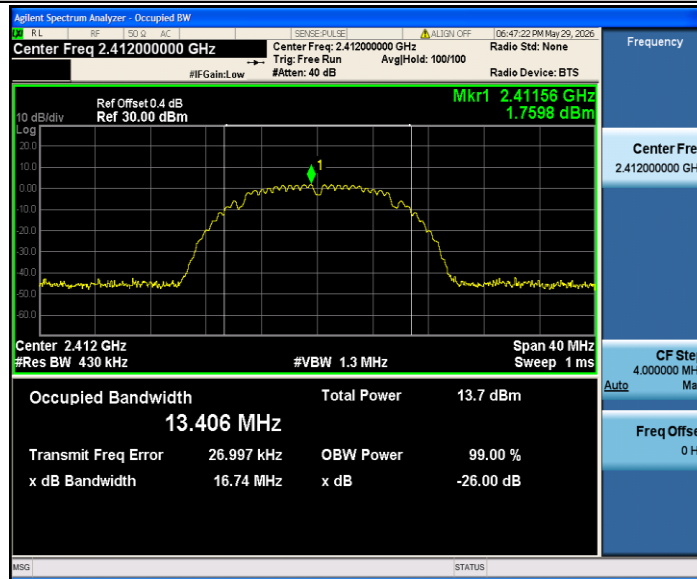
Appendix B: Occupied Channel Bandwidth

Test Result

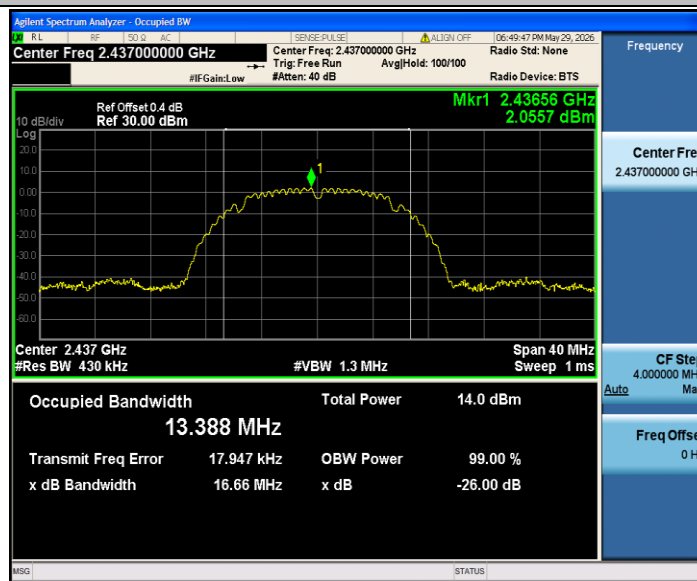
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.406	2405.3240	2418.7300	---	---
		2437	13.388	2430.3240	2443.7120	---	---
		2462	13.421	2455.3032	2468.7242	---	---
11G	Ant1	2412	16.842	2403.6391	2420.4811	---	---
		2437	16.919	2428.5853	2445.5043	---	---
		2462	16.823	2453.5758	2470.3988	---	---
11N20SISO	Ant1	2412	17.918	2403.0675	2420.9855	---	---
		2437	17.917	2428.0257	2445.9427	---	---
		2462	17.950	2453.0253	2470.9753	---	---
11N40SISO	Ant1	2422	36.045	2404.0717	2440.1167	---	---
		2437	36.026	2419.1135	2455.1395	---	---
		2452	36.040	2434.1059	2470.1459	---	---

Test Graphs

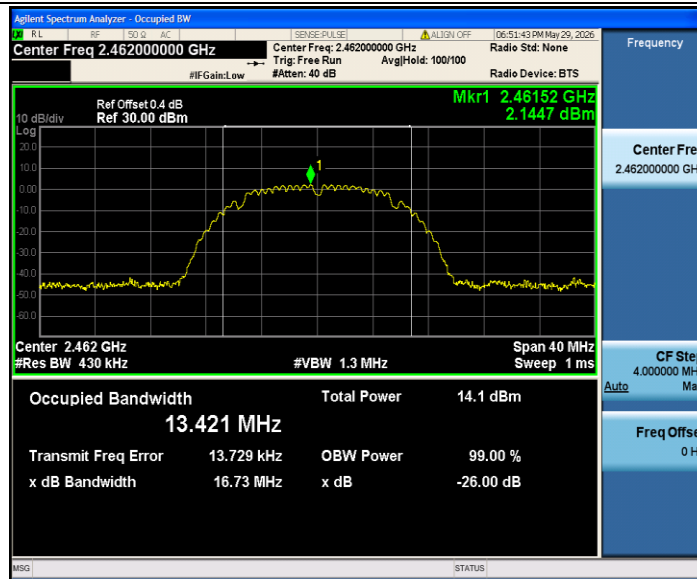
11B_Ant1_2412



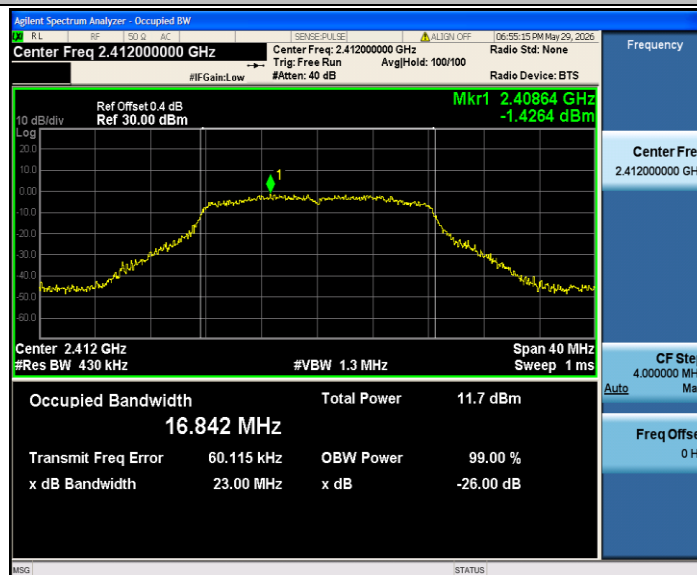
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437

