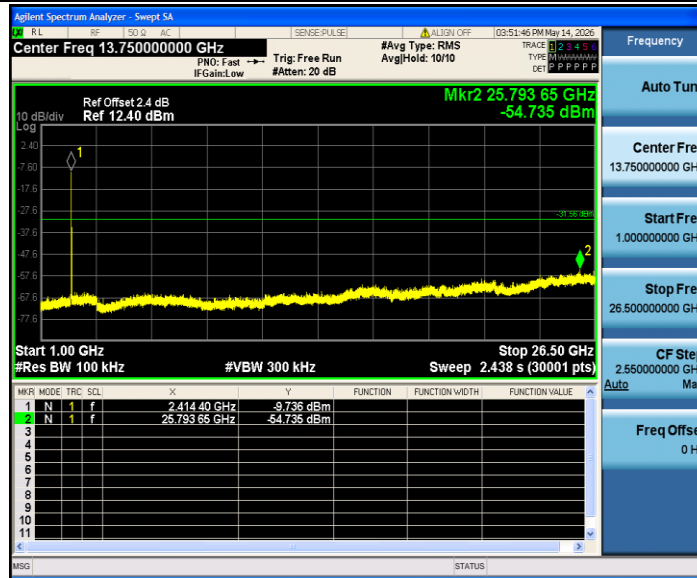


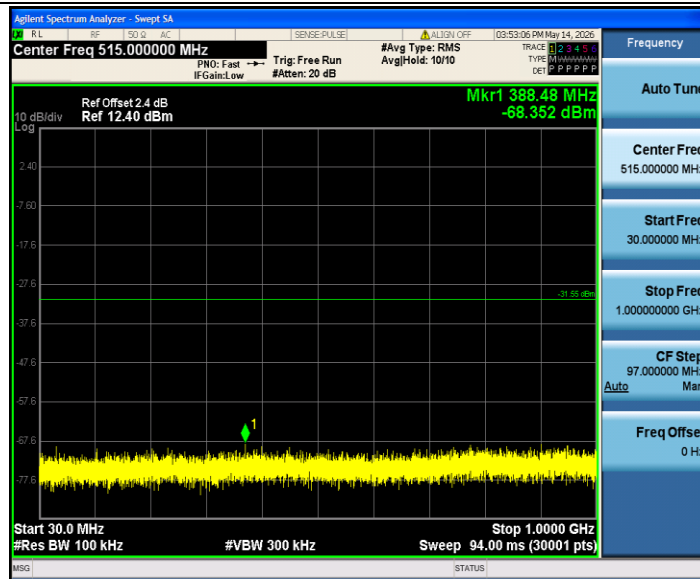
11N20SISO_Ant1_2412_1000~26500



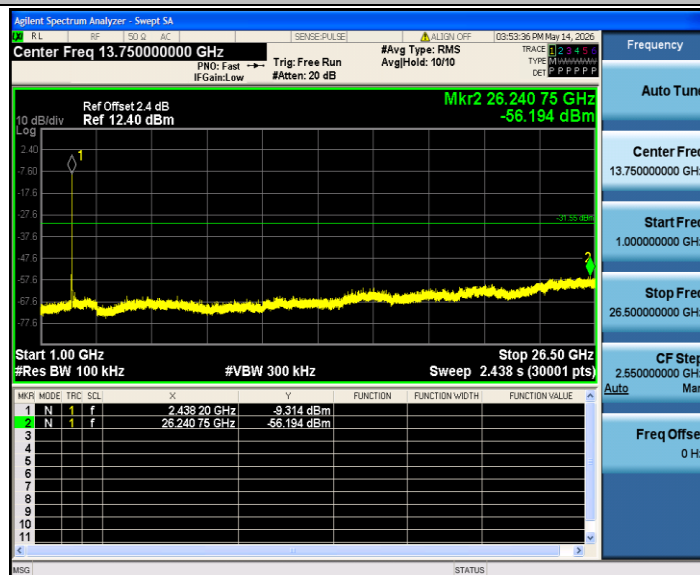
11N20SISO_Ant1_2437_0~Reference



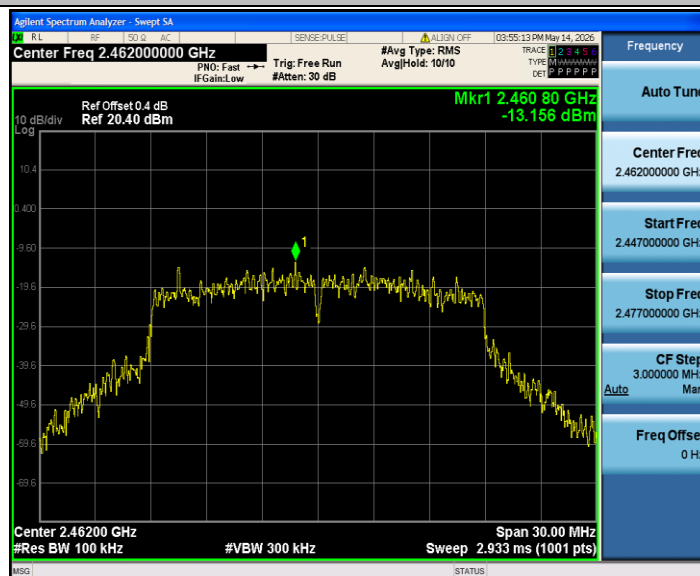
11N20SISO_Ant1_2437_30~1000



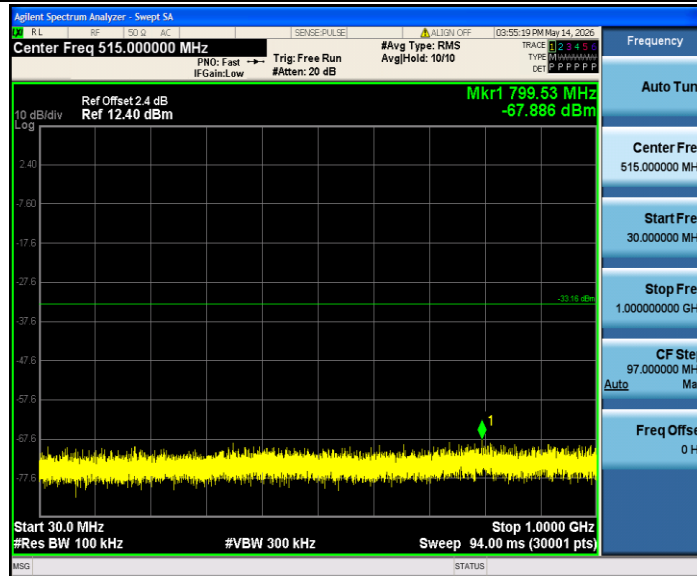
11N20SISO_Ant1_2437_1000~26500



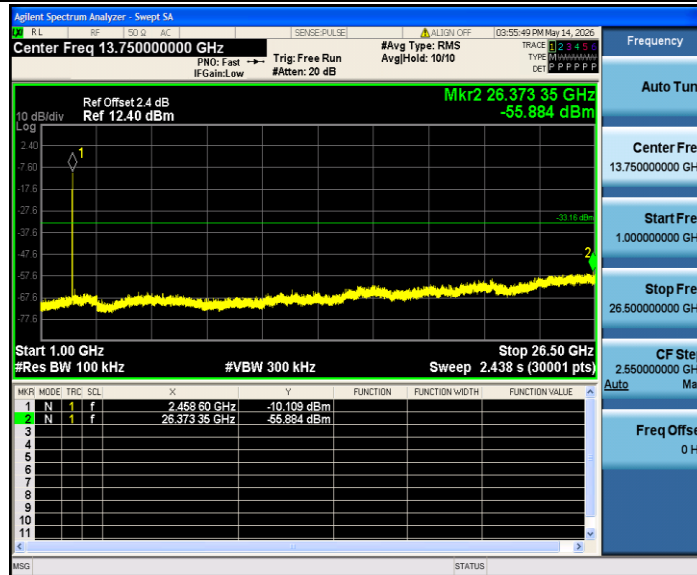
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



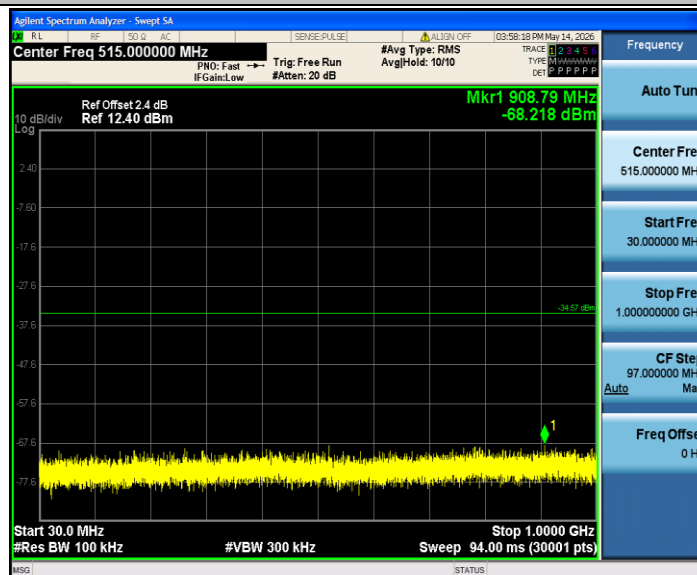
11N20SISO_Ant1_2462_1000~26500



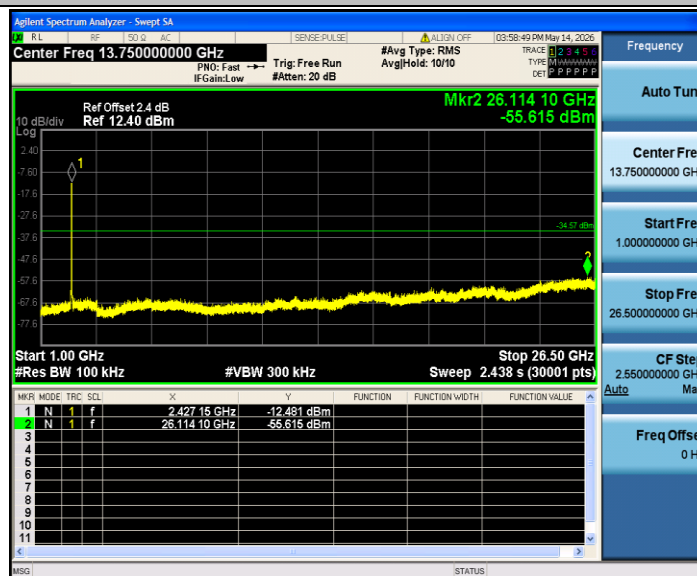
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



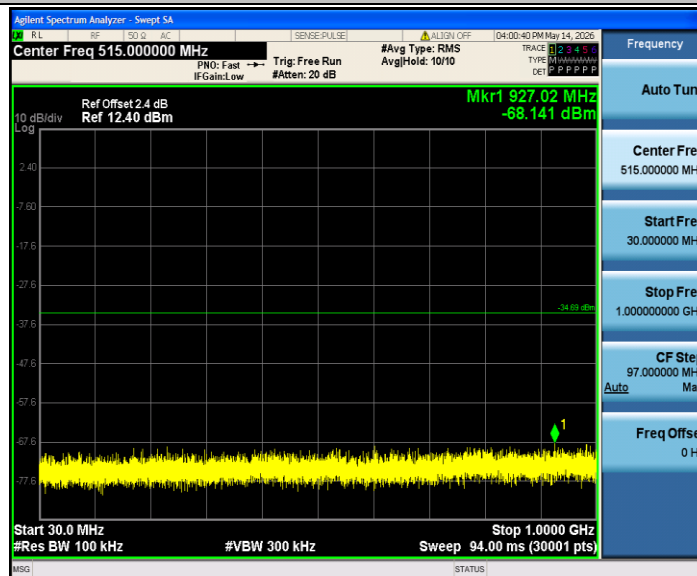
11N40SISO_Ant1_2422_1000~26500



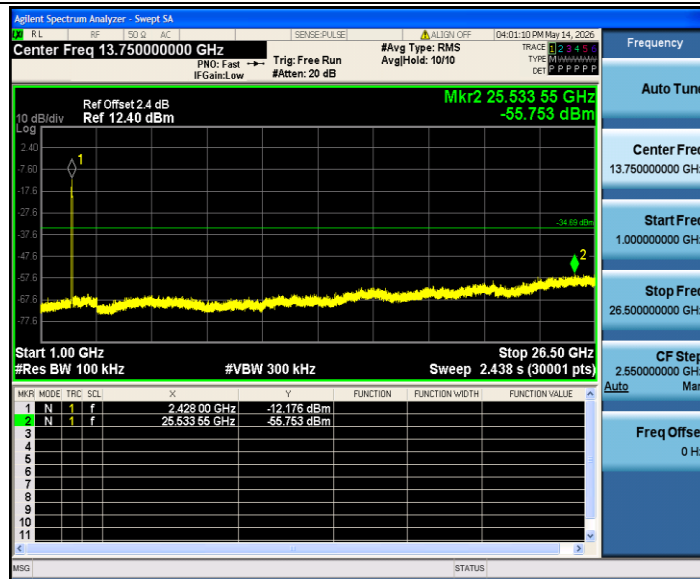
11N40SISO_Ant1_2437_0~Reference



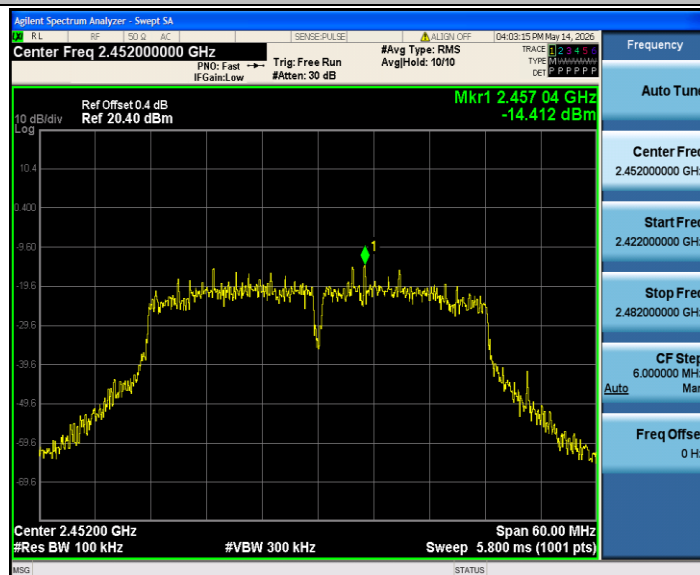
11N40SISO_Ant1_2437_30~1000



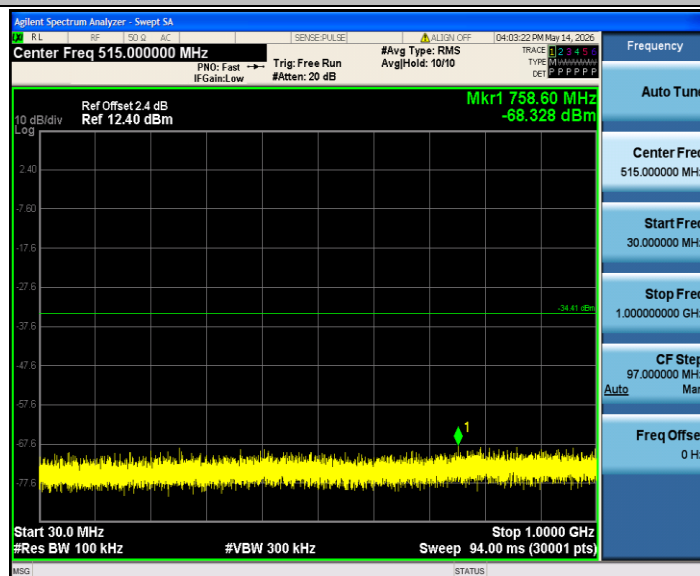
11N40SISO_Ant1_2437_1000~26500



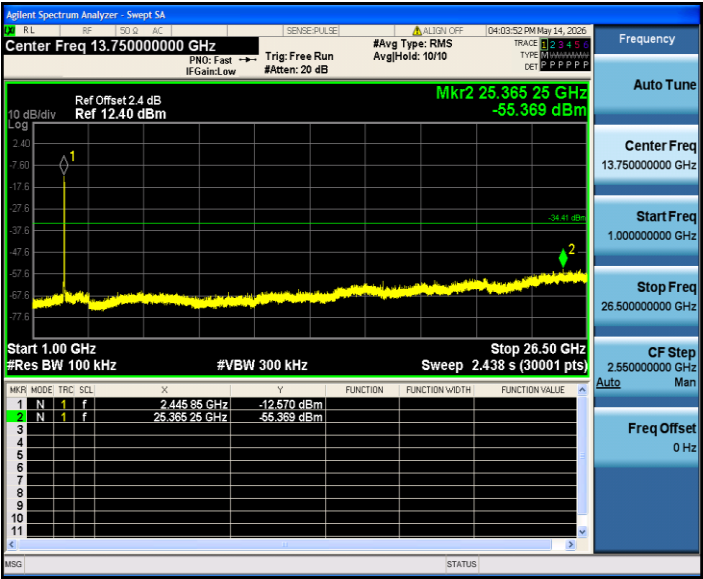
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



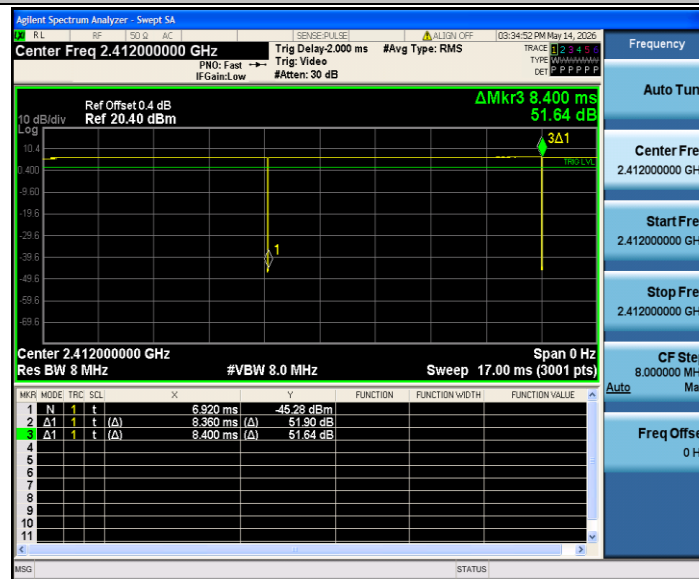
Appendix G: Duty Cycle

Test Result

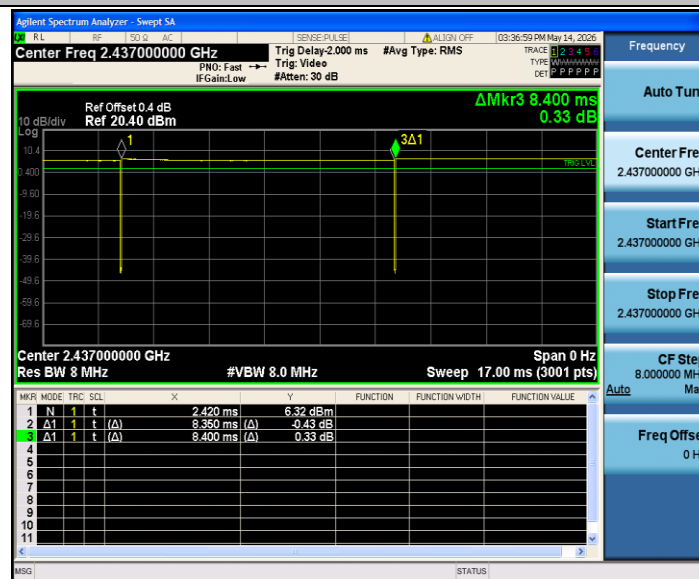
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	T Factor [dB]
11B	Ant1	2412	8.36	8.40	99.52	0.02	0.12
		2437	8.35	8.40	99.40	0.03	0.12
		2462	8.35	8.40	99.40	0.03	0.12
11G	Ant1	2412	0.15	0.20	75.00	1.25	6.67
		2437	0.15	0.19	78.95	1.03	6.67
		2462	0.15	0.19	78.95	1.03	6.67
11N20SISO	Ant1	2412	0.18	0.23	78.26	1.06	5.56
		2437	0.18	0.22	81.82	0.87	5.56
		2462	0.17	0.22	77.27	1.12	5.88
11N40SISO	Ant1	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	0.22	81.82	0.87	5.56

Test Graphs

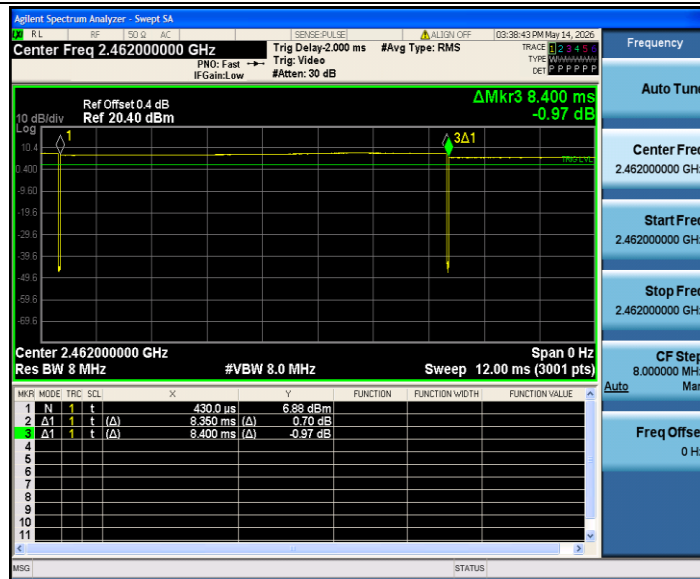
11B_Ant1_2412



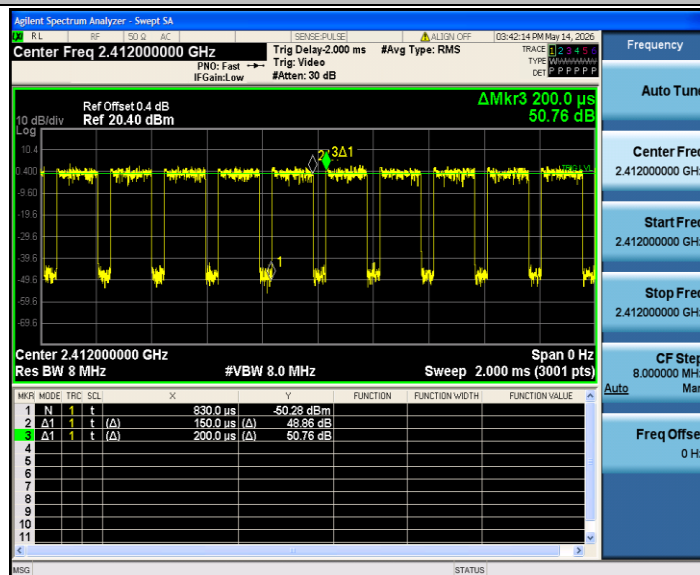
11B_Ant1_2437



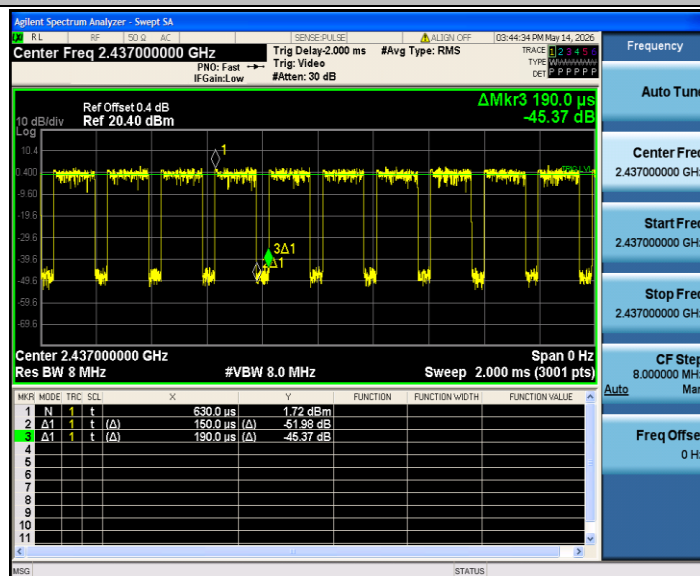
11B_Ant1_2462



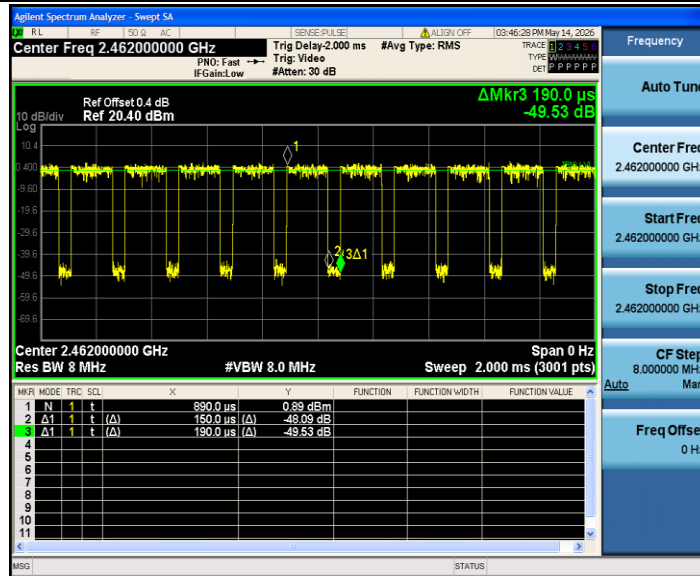
11G_Ant1_2412



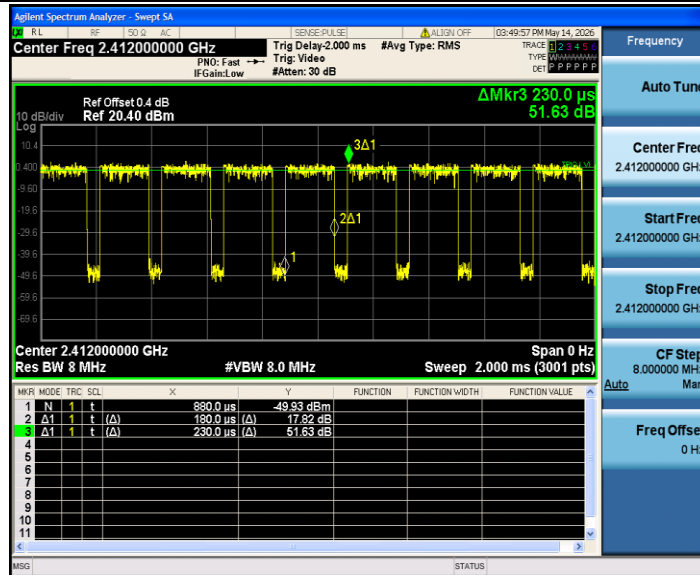
11G_Ant1_2437



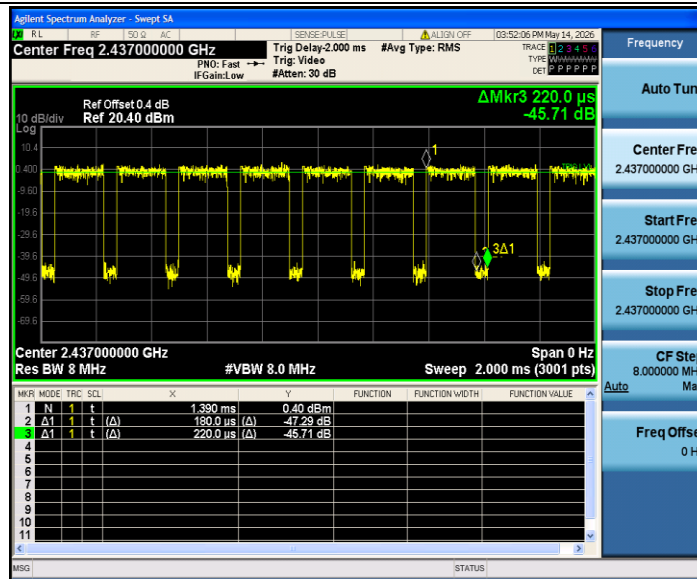
11G_Ant1_2462



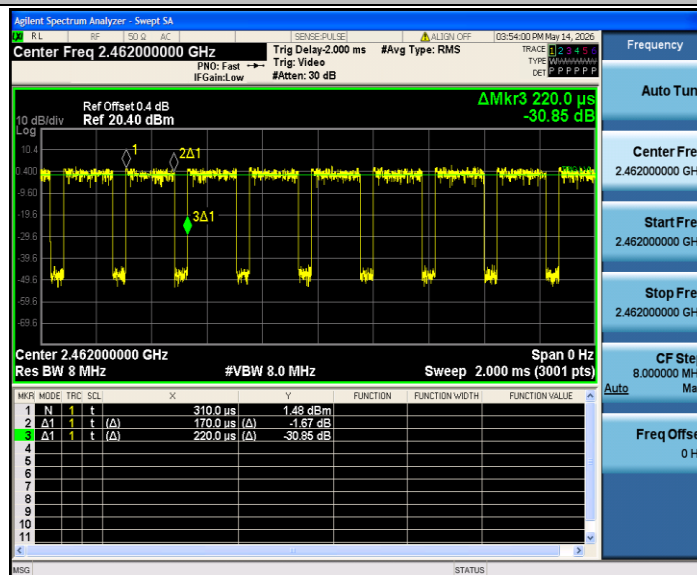
11N20SISO_Ant1_2412



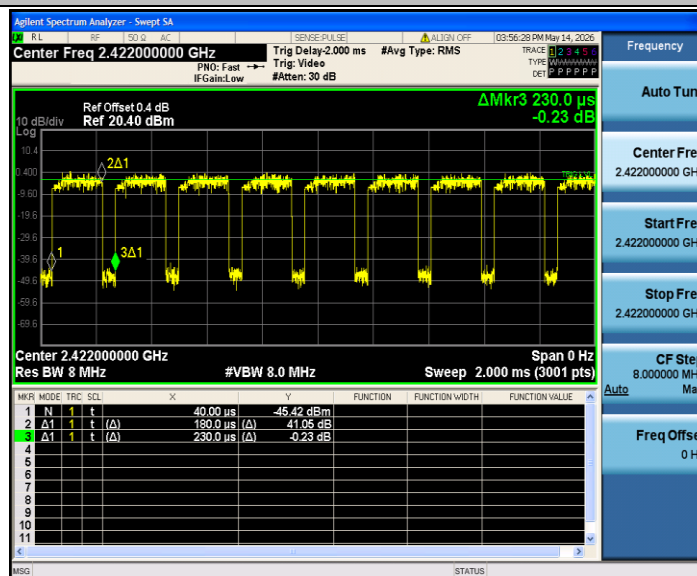
11N20SISO_Ant1_2437



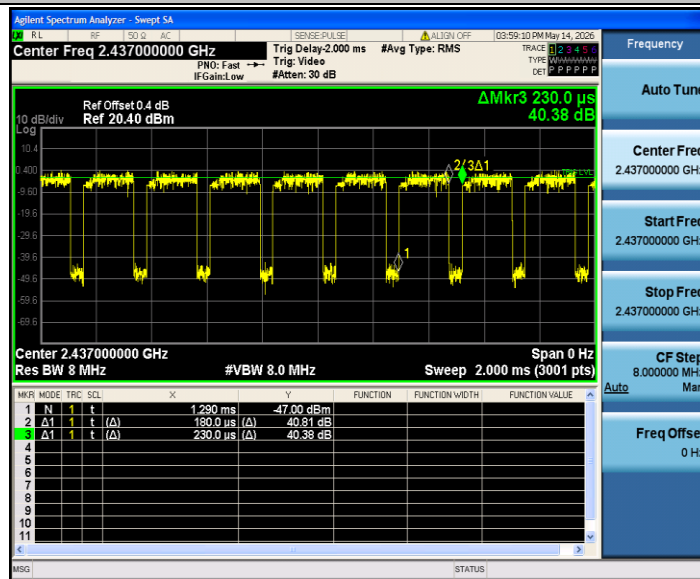
11N20SISO_Ant1_2462



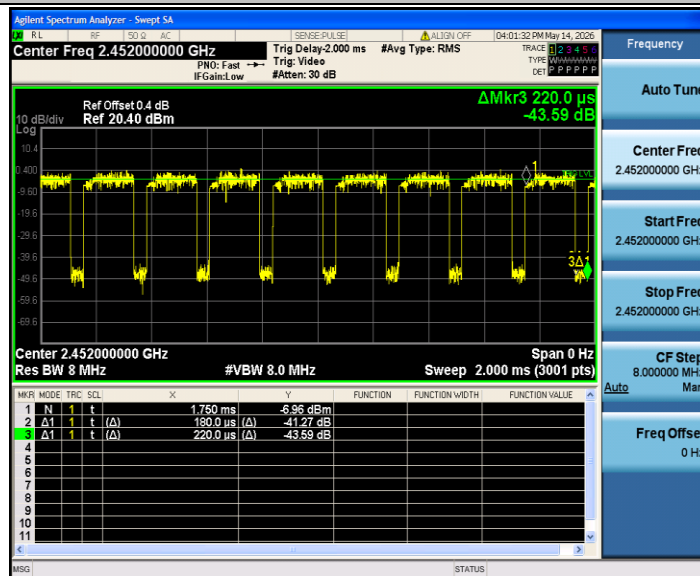
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix 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	Ant1	Low	2412	AV	2310.000	-60.03	2.00	0.02	37.19	≤54	PASS
				AV	2389.310	-58.91	2.00	0.02	38.31	≤54	PASS
				AV	2390.000	-59.5	2.00	0.02	37.72	≤54	PASS
				Peak	2310.000	-51.56	2.00	0.00	45.64	≤74	PASS
				Peak	2362.790	-49.04	2.00	0.00	48.16	≤74	PASS
				Peak	2390.000	-52.13	2.00	0.00	45.07	≤74	PASS
		High	2462	AV	2483.500	-59.65	2.00	0.03	37.58	≤54	PASS
				AV	2489.940	-58.53	2.00	0.03	38.70	≤54	PASS
				AV	2500.000	-59.49	2.00	0.03	37.74	≤54	PASS
				Peak	2483.500	-50.16	2.00	0.00	47.04	≤74	PASS
				Peak	2487.850	-48.32	2.00	0.00	48.88	≤74	PASS
				Peak	2500.000	-49.92	2.00	0.00	47.28	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-59.72	2.00	1.25	38.73	≤54	PASS
				AV	2320.540	-59.2	2.00	1.25	39.25	≤54	PASS
				AV	2390.000	-60.28	2.00	1.25	38.17	≤54	PASS
				Peak	2310.000	-51.97	2.00	0.00	45.23	≤74	PASS
				Peak	2365.910	-49.14	2.00	0.00	48.06	≤74	PASS
				Peak	2390.000	-50.59	2.00	0.00	46.61	≤74	PASS
		High	2462	AV	2483.500	-58.95	2.00	1.03	39.28	≤54	PASS
				AV	2497.200	-58.86	2.00	1.03	39.37	≤54	PASS
				AV	2500.000	-59.36	2.00	1.03	38.87	≤54	PASS
				Peak	2483.500	-51.65	2.00	0.00	45.55	≤74	PASS
				Peak	2485.980	-48.32	2.00	0.00	48.88	≤74	PASS
				Peak	2500.000	-52.19	2.00	0.00	45.01	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-60.59	2.00	1.06	37.67	≤54	PASS
				AV	2356.550	-59.23	2.00	1.06	39.03	≤54	PASS
				AV	2390.000	-60.12	2.00	1.06	38.14	≤54	PASS
				Peak	2310.000	-52.64	2.00	0.00	44.56	≤74	PASS
				Peak	2363.050	-48.89	2.00	0.00	48.31	≤74	PASS
				Peak	2390.000	-50.85	2.00	0.00	46.35	≤74	PASS
		High	2462	AV	2483.500	-59.04	2.00	1.12	39.28	≤54	PASS
				AV	2486.090	-58.8	2.00	1.12	39.52	≤54	PASS
				AV	2500.000	-59.63	2.00	1.12	38.69	≤54	PASS
				Peak	2483.500	-51.77	2.00	0.00	45.43	≤74	PASS
				Peak	2492.250	-48.82	2.00	0.00	48.38	≤74	PASS
				Peak	2500.000	-51.69	2.00	0.00	45.51	≤74	PASS

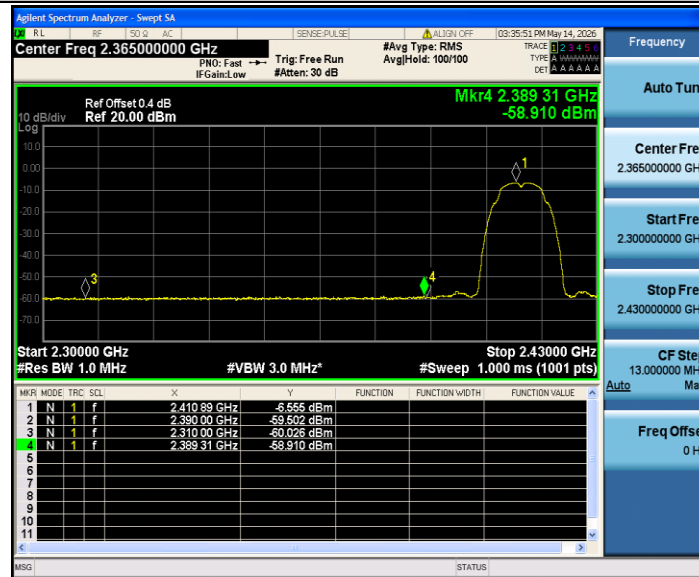
11N40SI SO	Ant1	Low	2422	AV	2310.000	-59.79	2.00	1.06	38.47	≤54	PASS
				AV	2388.650	-58.7	2.00	1.06	39.56	≤54	PASS
				AV	2390.000	-58.62	2.00	1.06	39.64	≤54	PASS
				Peak	2310.000	-51.61	2.00	0.00	45.59	≤74	PASS
				Peak	2314.550	-48.04	2.00	0.00	49.16	≤74	PASS
				Peak	2390.000	-50.65	2.00	0.00	46.55	≤74	PASS
		High	2452	AV	2483.500	-58.84	2.00	0.87	39.23	≤54	PASS
				AV	2484.000	-58.35	2.00	0.87	39.72	≤54	PASS
				AV	2500.000	-60.09	2.00	0.87	37.98	≤54	PASS
				Peak	2483.500	-50.18	2.00	0.00	47.02	≤74	PASS
				Peak	2496.125	-49.19	2.00	0.00	48.01	≤74	PASS
				Peak	2500.000	-52.07	2.00	0.00	45.13	≤74	PASS

Note:

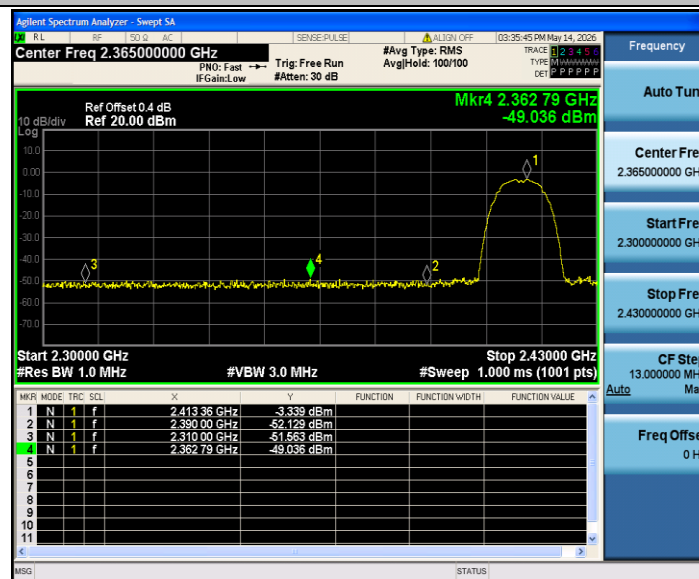
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

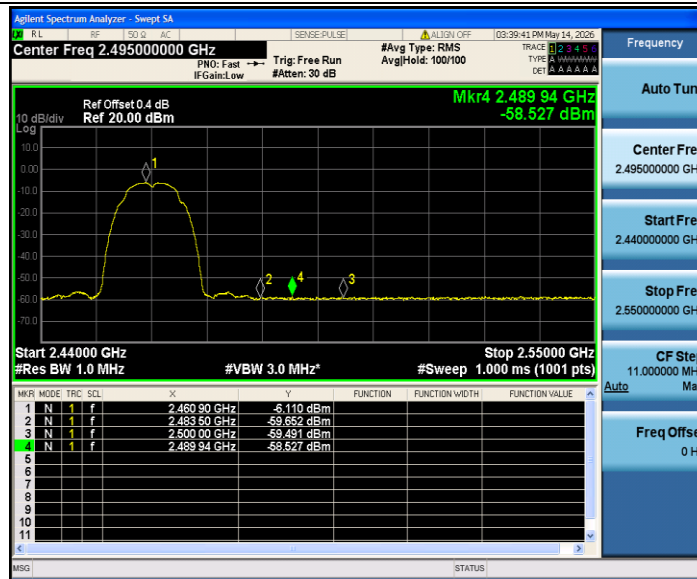
11B_Ant1_Low_2412_AV



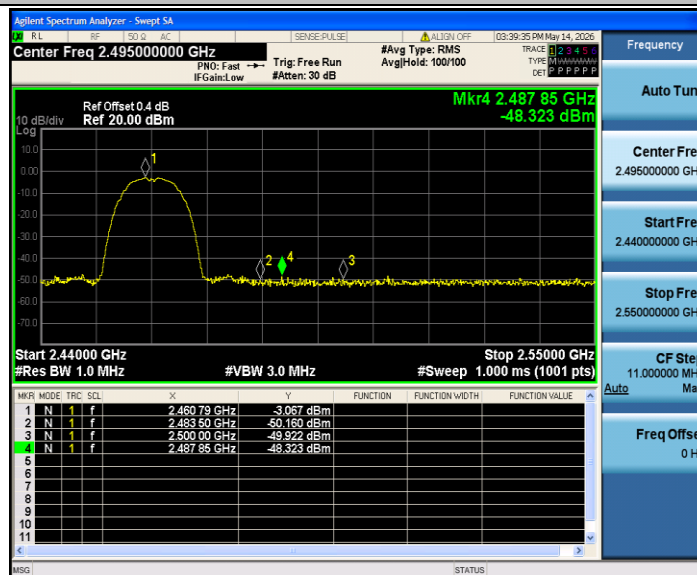
11B_Ant1_Low_2412_Peak



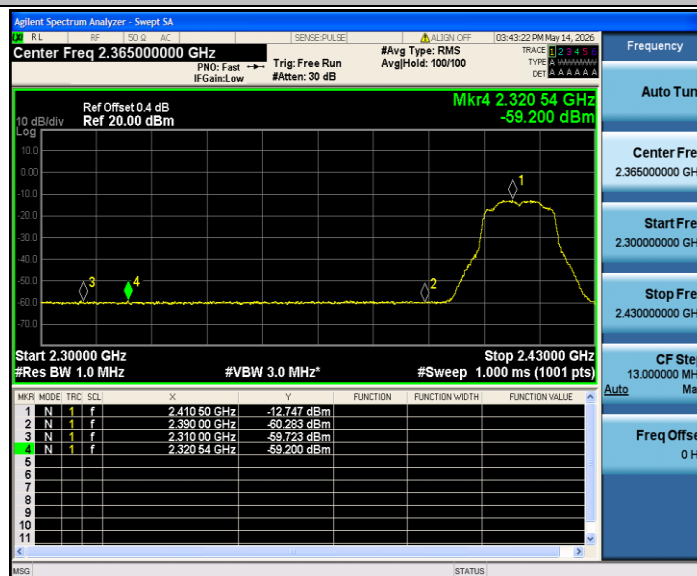
11B_Ant1_High_2462_AV



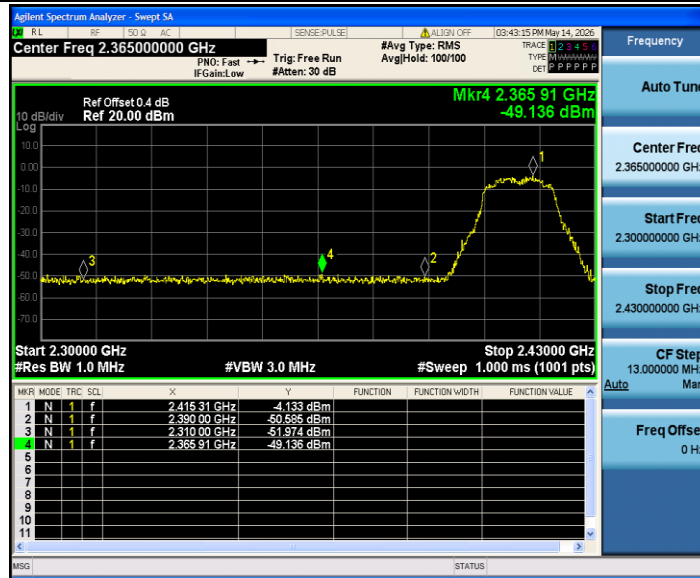
11B_Ant1_High_2462_Peak



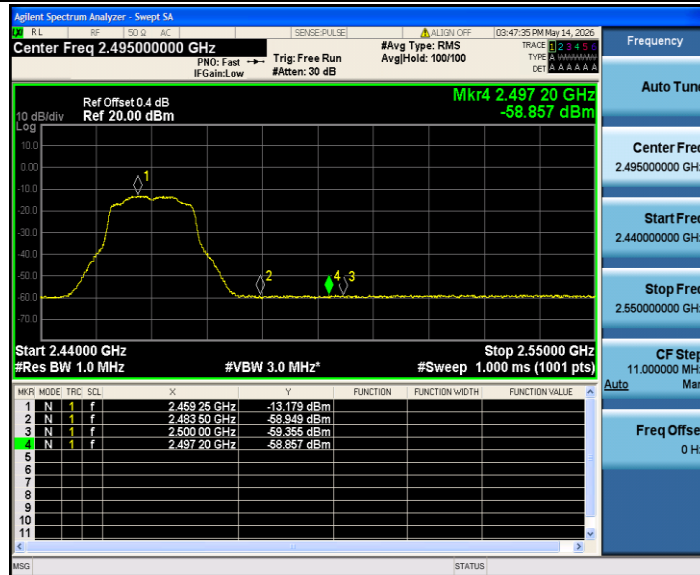
11G_Ant1_Low_2412_AV



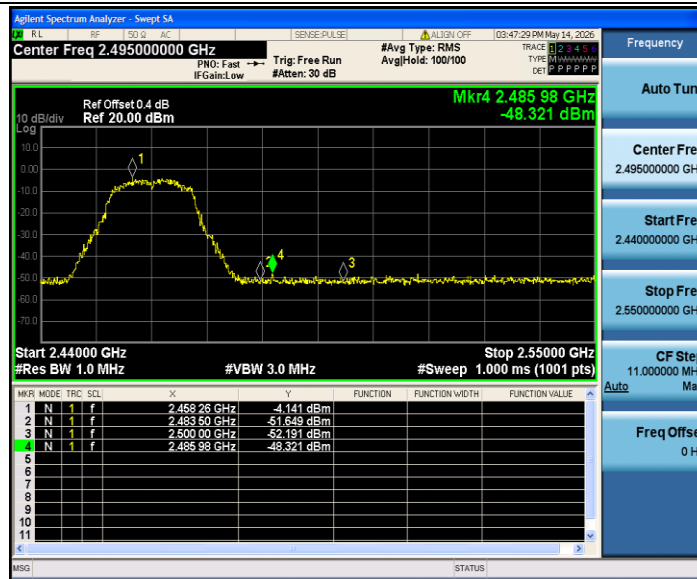
11G_Ant1_Low_2412_Peak



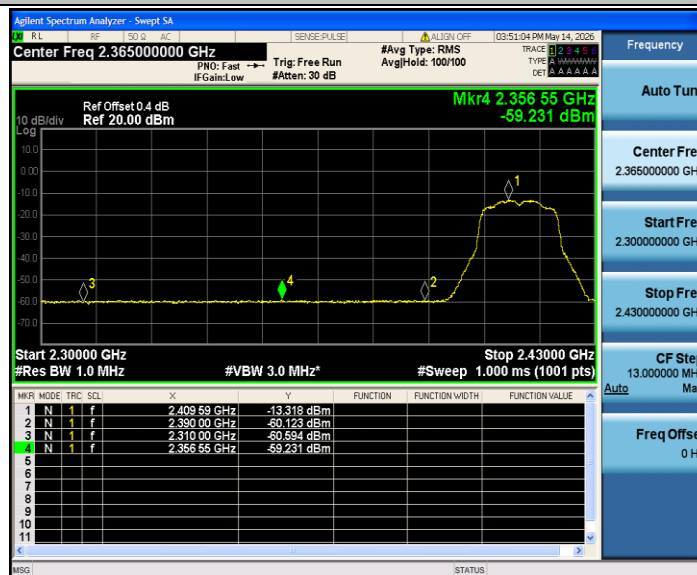
11G_Ant1_High_2462_AV



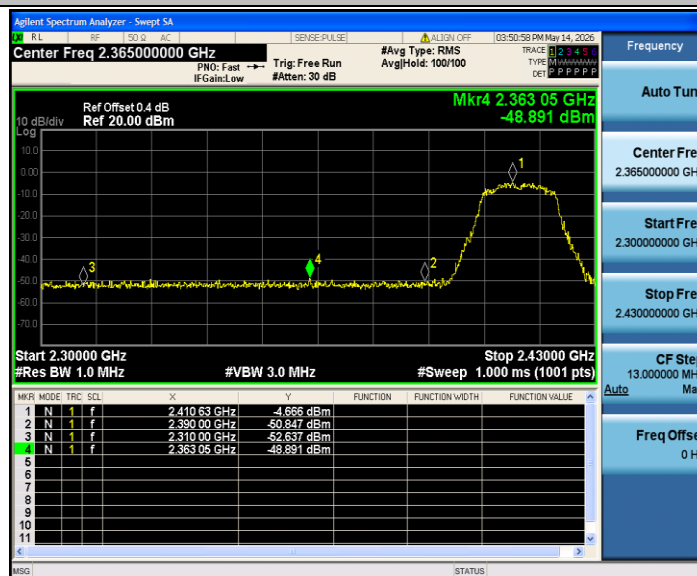
11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV



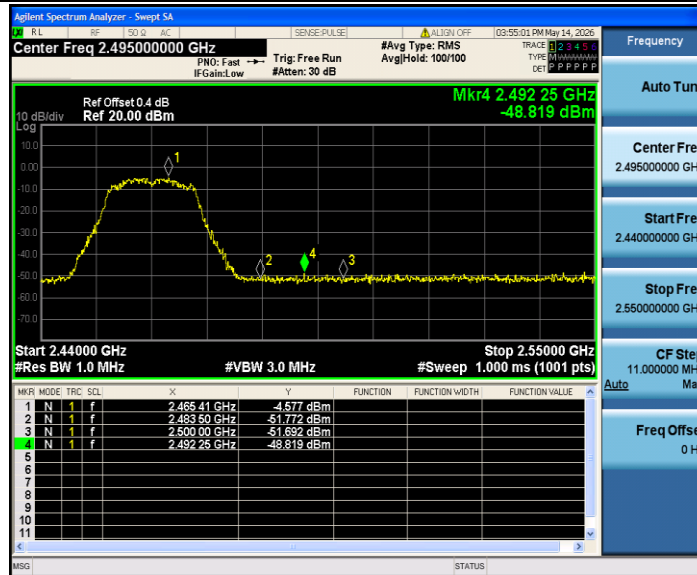
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



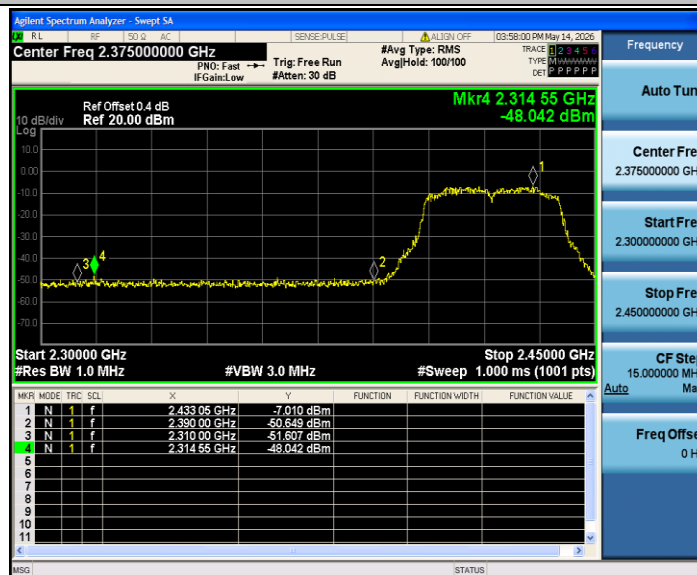
11N20SISO_Ant1_High_2462_Peak



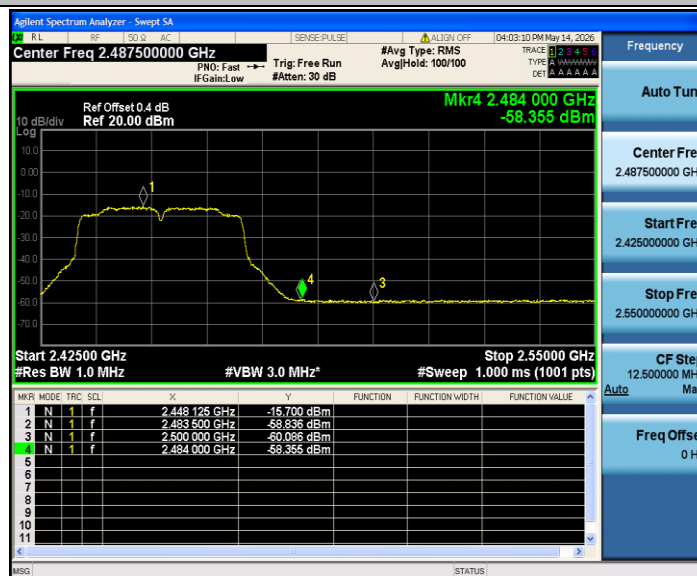
11N40SISO_Ant1_Low_2422_AV



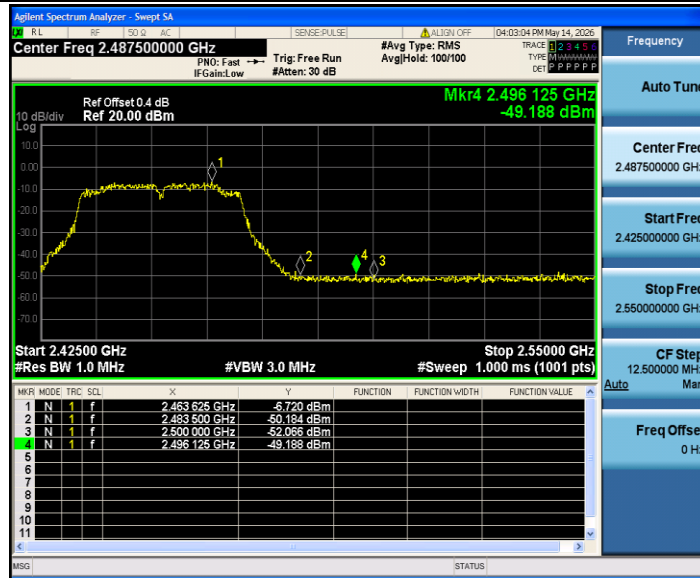
11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



11N40SISO_Ant1_High_2452_Peak



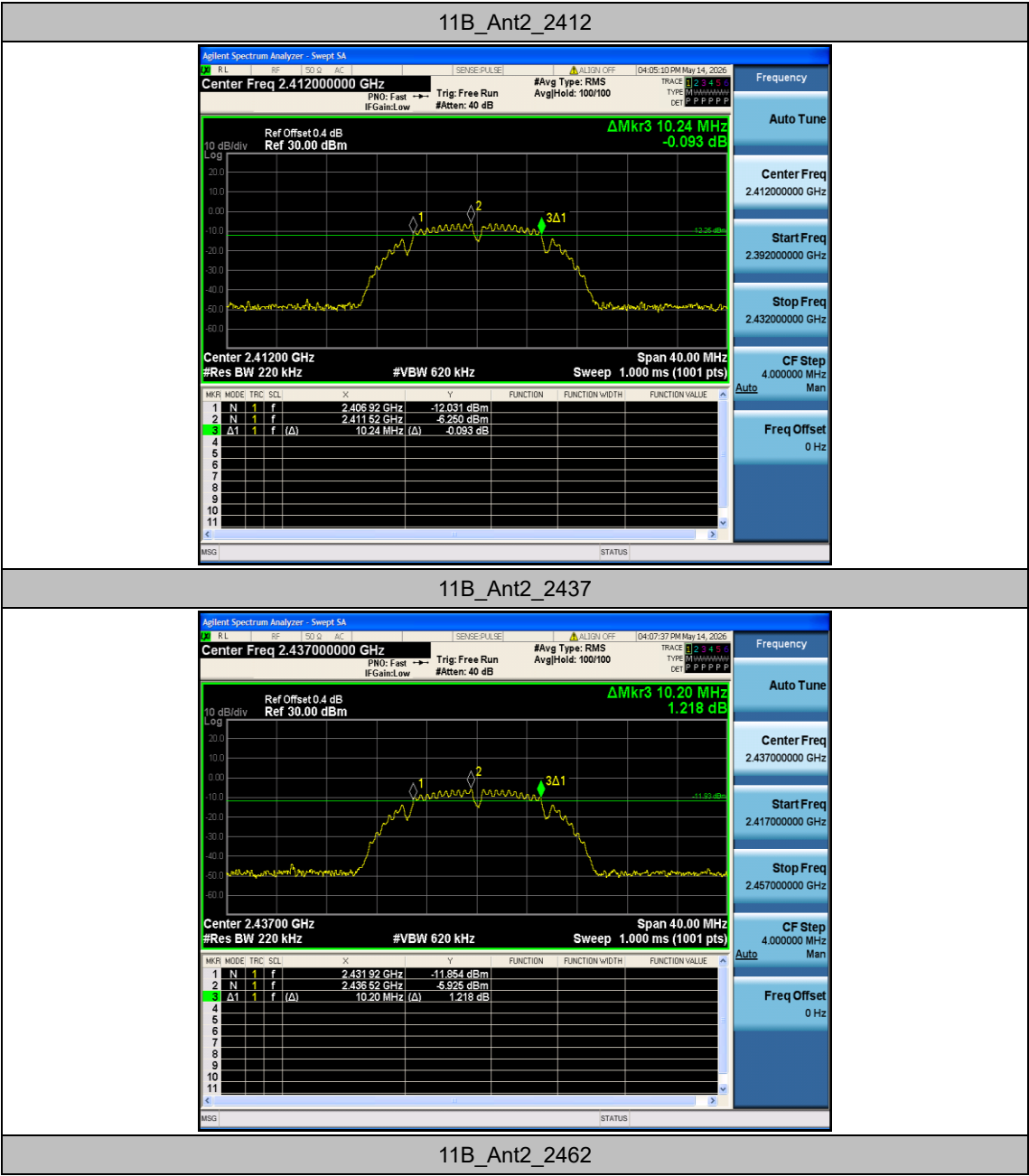
FCC Appendix RF Test Data for 2.4GWIFI Antenna 2

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant2	2412	15.720	2404.080	2419.800	0.5	PASS
		2437	15.920	2429.000	2444.920	0.5	PASS
		2462	15.920	2454.080	2470.000	0.5	PASS
11N20SISO	Ant2	2412	16.720	2403.520	2420.240	0.5	PASS
		2437	16.840	2428.640	2445.480	0.5	PASS
		2462	17.120	2453.440	2470.560	0.5	PASS
11N40SISO	Ant2	2422	36.080	2404.080	2440.160	0.5	PASS
		2437	35.600	2419.320	2454.920	0.5	PASS
		2452	33.840	2435.520	2469.360	0.5	PASS

Test Graphs





11G_Ant2_2412



11G_Ant2_2437

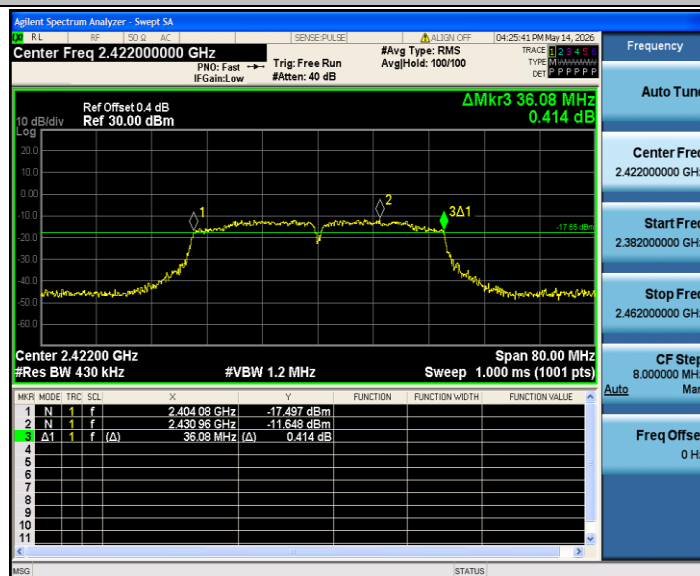




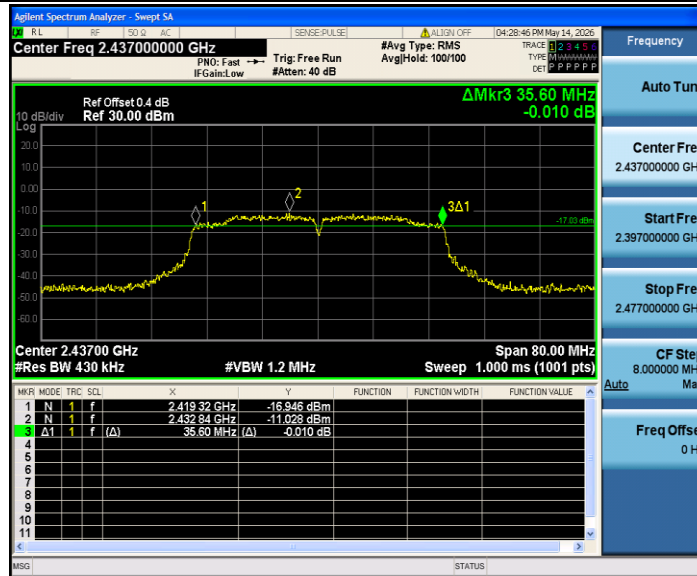
11N20SISO_Ant2_2462



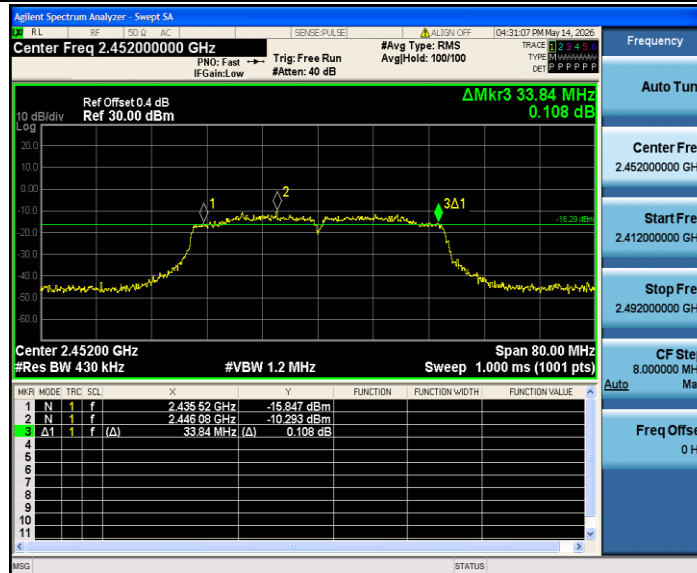
11N40SISO_Ant2_2422



11N40SISO_Ant2_2437



11N40SISO_Ant2_2452



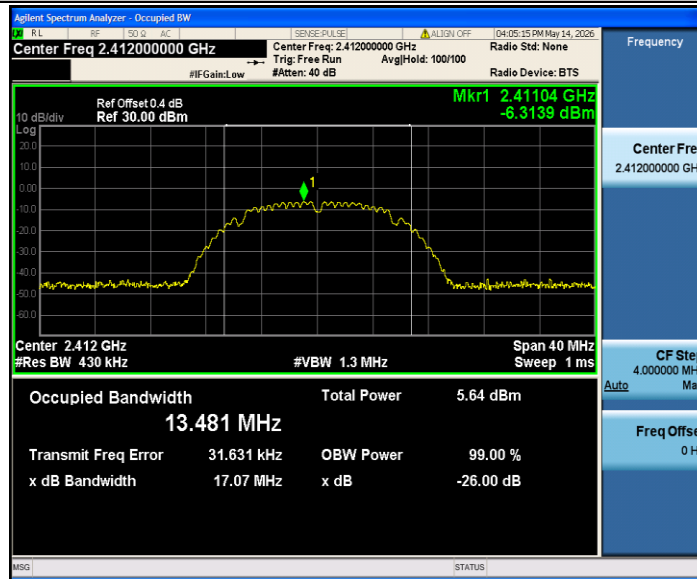
Appendix B: Occupied Channel Bandwidth

Test Result

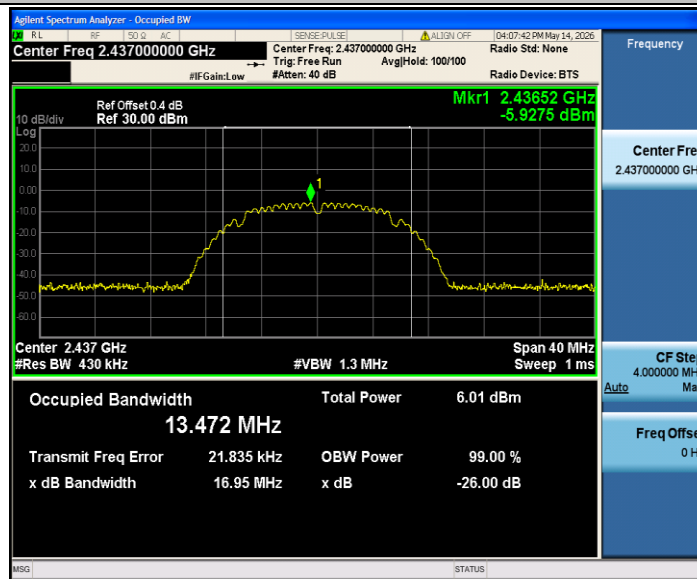
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	13.481	2405.2911	2418.7721	---	---
		2437	13.472	2430.2858	2443.7578	---	---
		2462	13.483	2455.2794	2468.7624	---	---
11G	Ant2	2412	16.892	2403.5906	2420.4826	---	---
		2437	16.907	2428.6308	2445.5378	---	---
		2462	16.920	2453.5557	2470.4757	---	---
11N20SISO	Ant2	2412	17.959	2403.0829	2421.0419	---	---
		2437	17.919	2428.0576	2445.9766	---	---
		2462	17.942	2453.0308	2470.9728	---	---
11N40SISO	Ant2	2422	36.119	2404.0384	2440.1574	---	---
		2437	36.144	2418.9817	2455.1257	---	---
		2452	36.136	2434.0084	2470.1444	---	---

Test Graphs

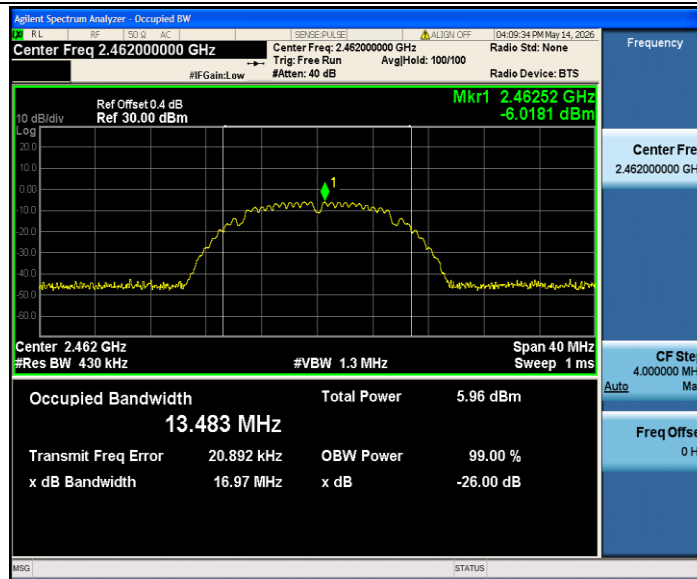
11B_Ant2_2412



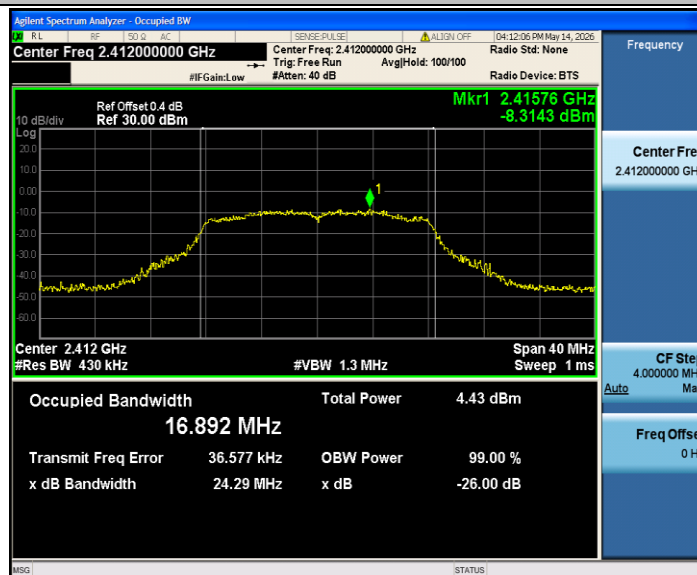
11B_Ant2_2437



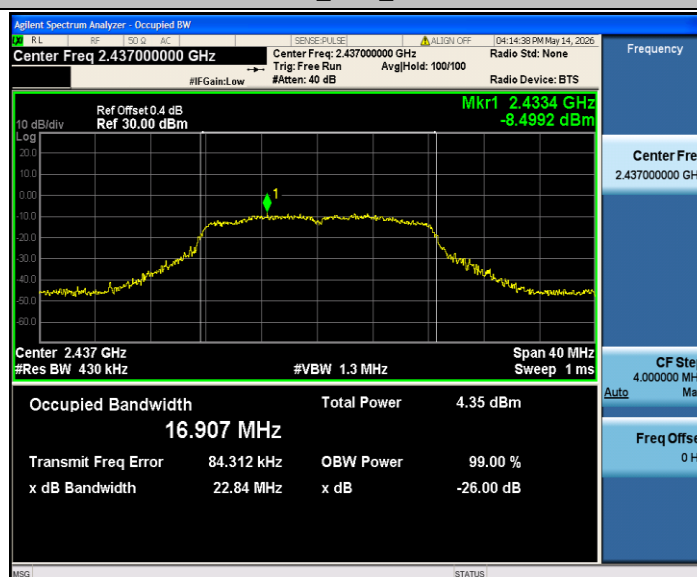
11B_Ant2_2462



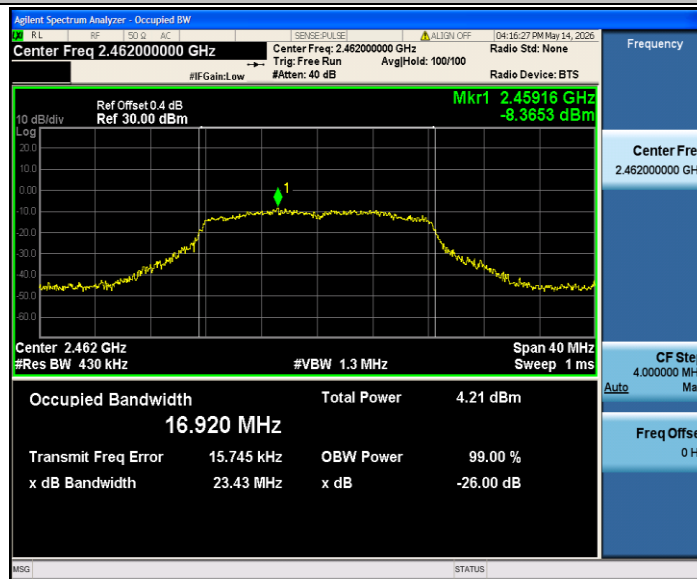
11G_Ant2_2412



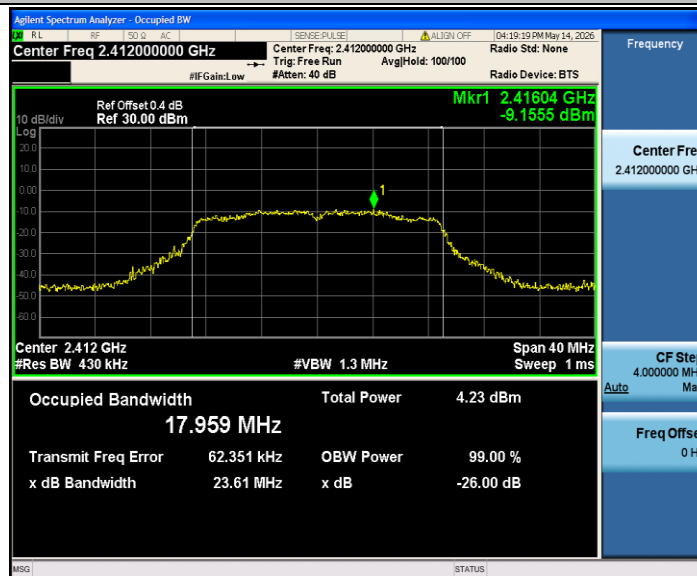
11G_Ant2_2437



11G_Ant2_2462



11N20SISO_Ant2_2412



11N20SISO_Ant2_2437