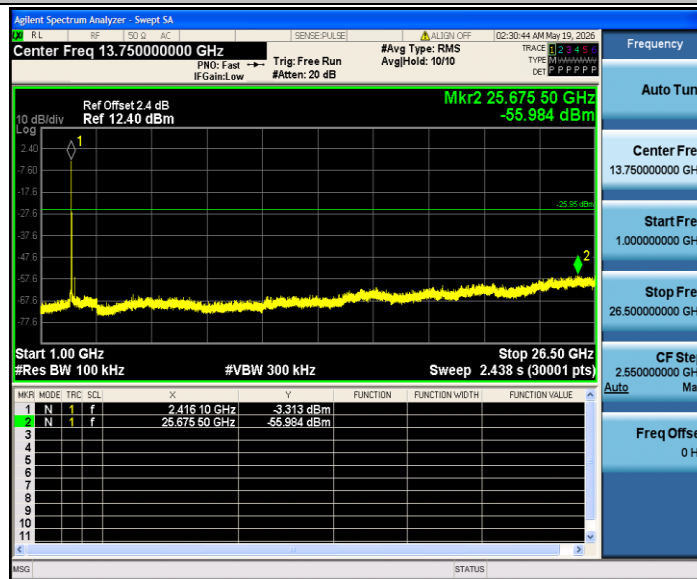


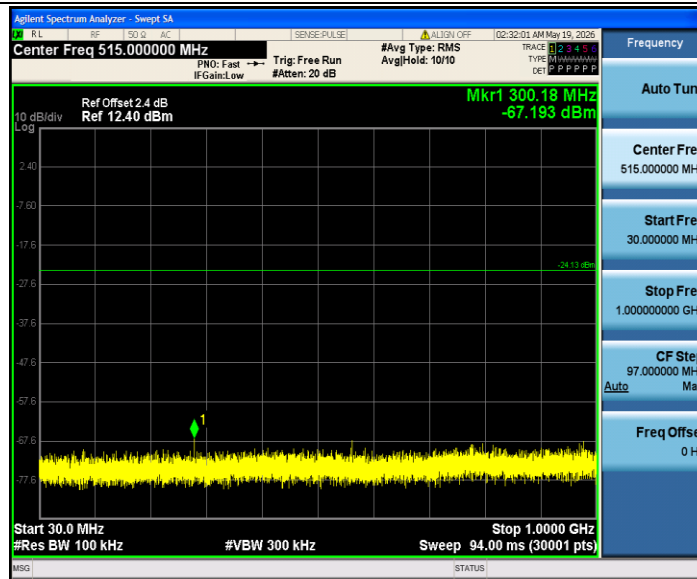
11N20SISO_Ant1_2412_1000~26500



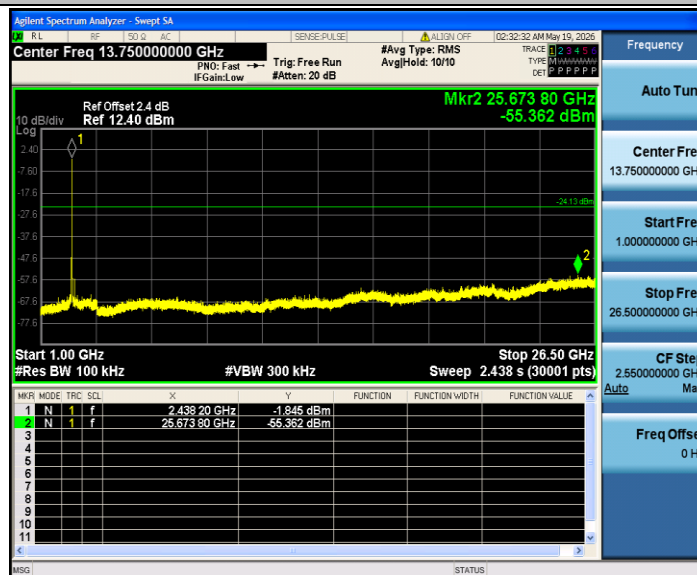
11N20SISO_Ant1_2437_0~Reference



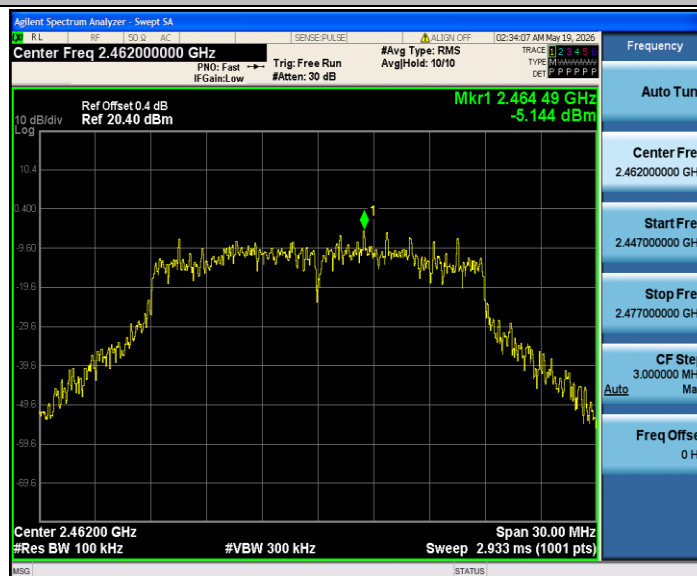
11N20SISO_Ant1_2437_30~1000



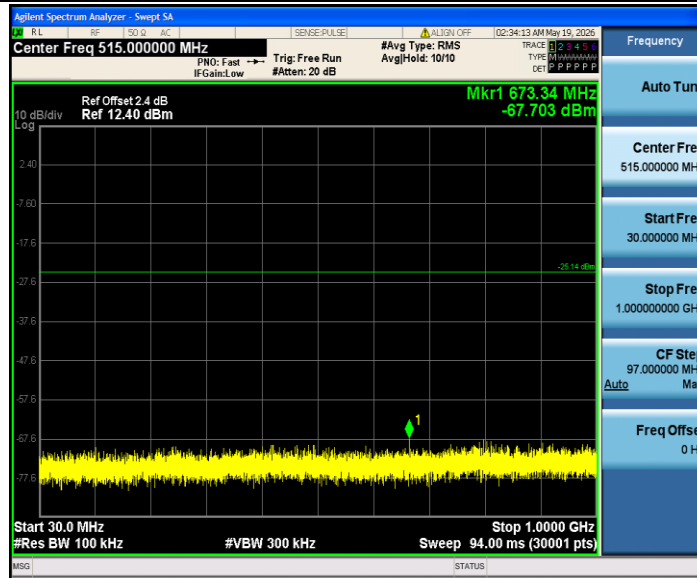
11N20SISO_Ant1_2437_1000~26500



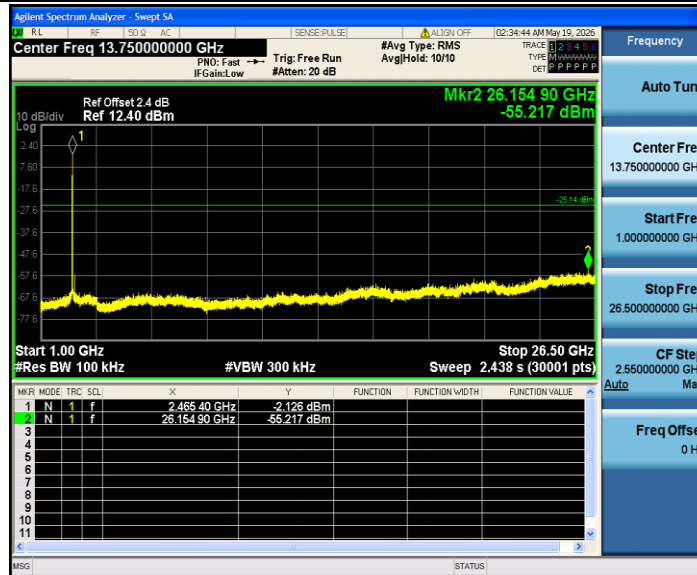
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



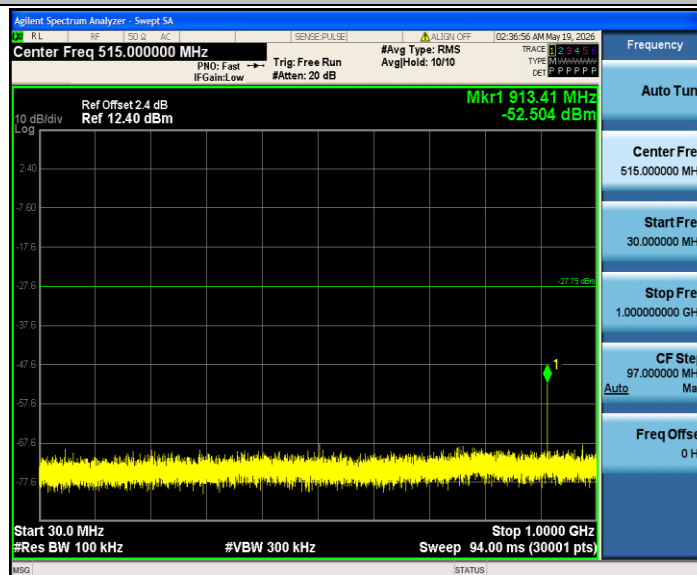
11N20SISO_Ant1_2462_1000~26500



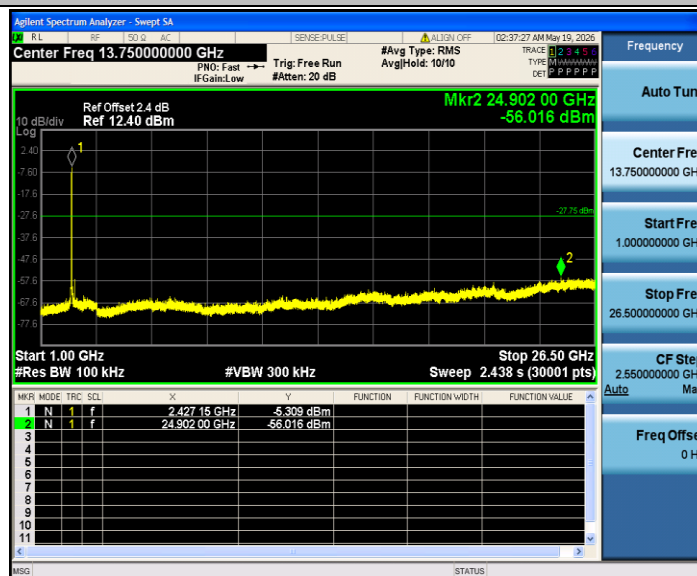
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



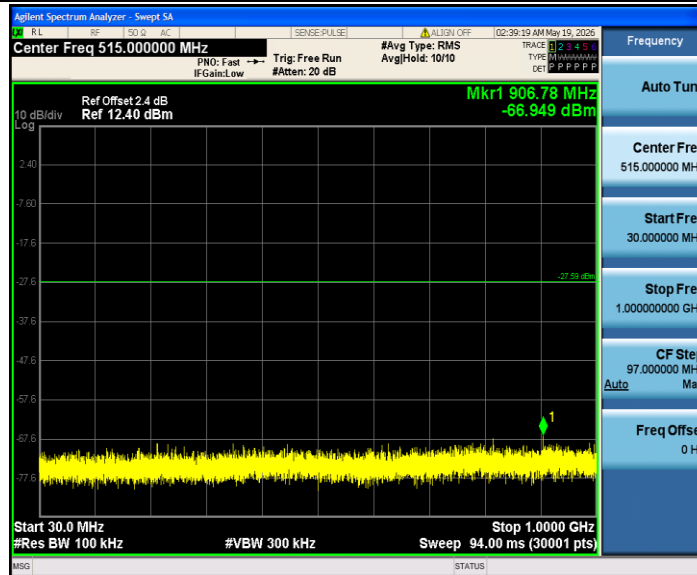
11N40SISO_Ant1_2422_1000~26500



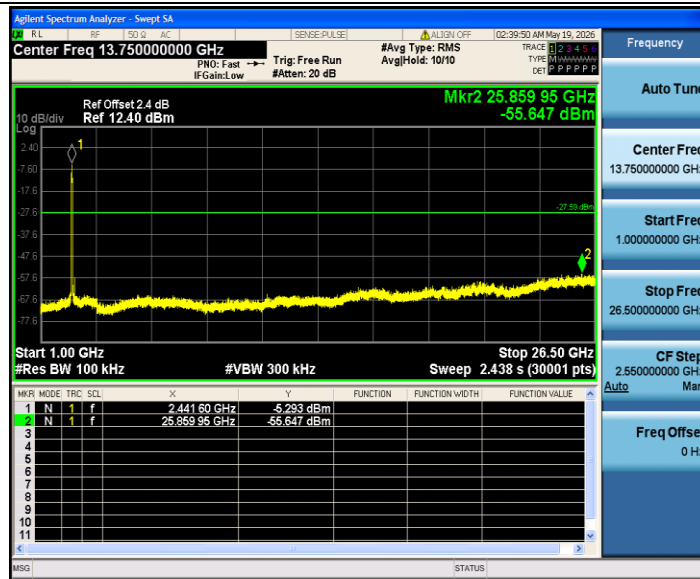
11N40SISO_Ant1_2437_0~Reference



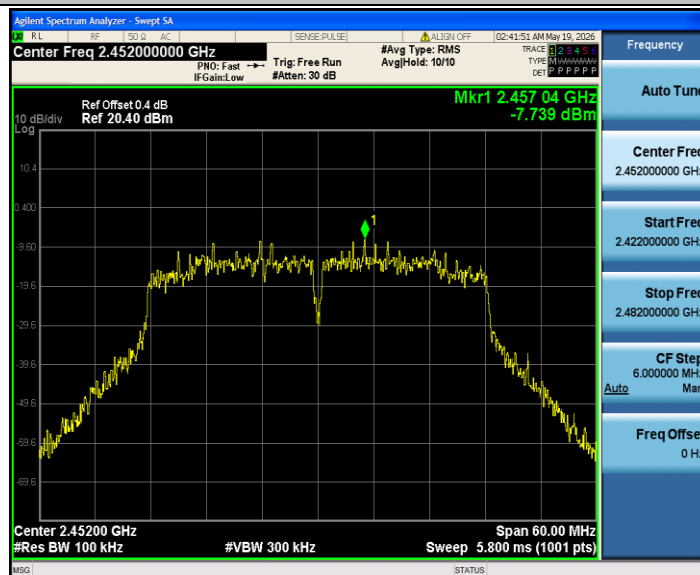
11N40SISO_Ant1_2437_30~1000



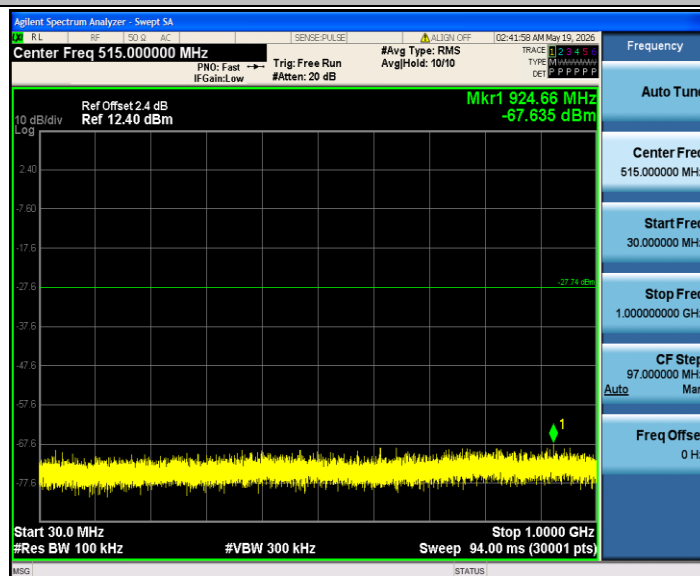
11N40SISO_Ant1_2437_1000~26500



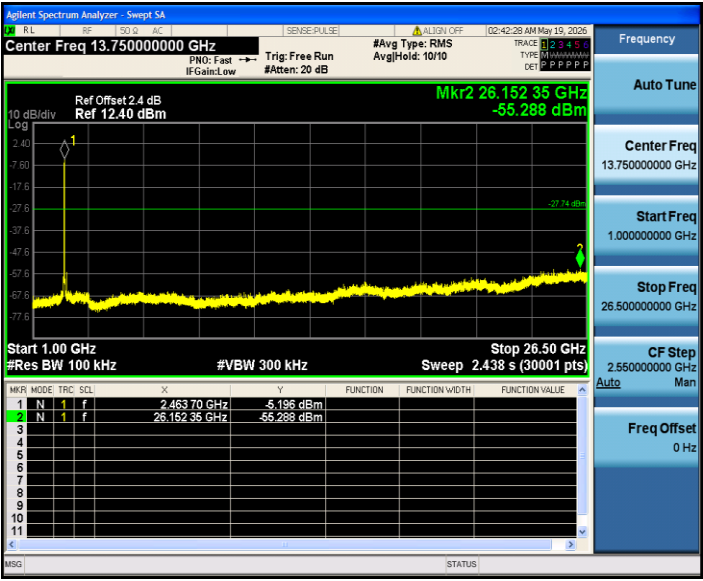
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



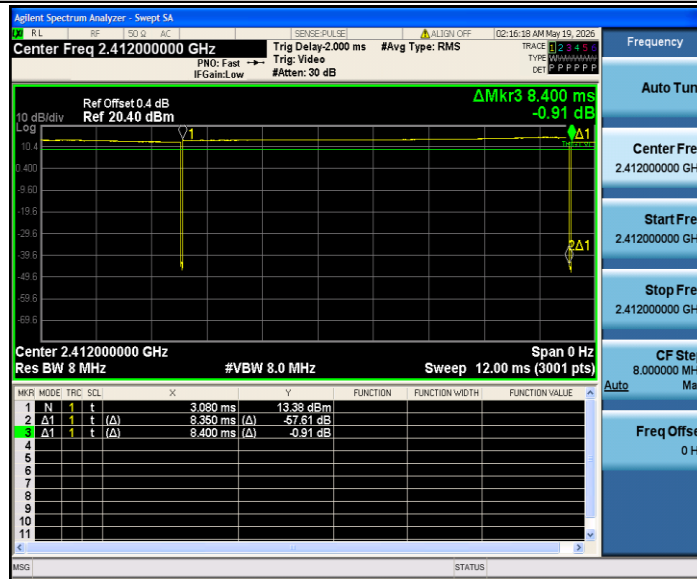
Appendix G: Duty Cycle

Test Result

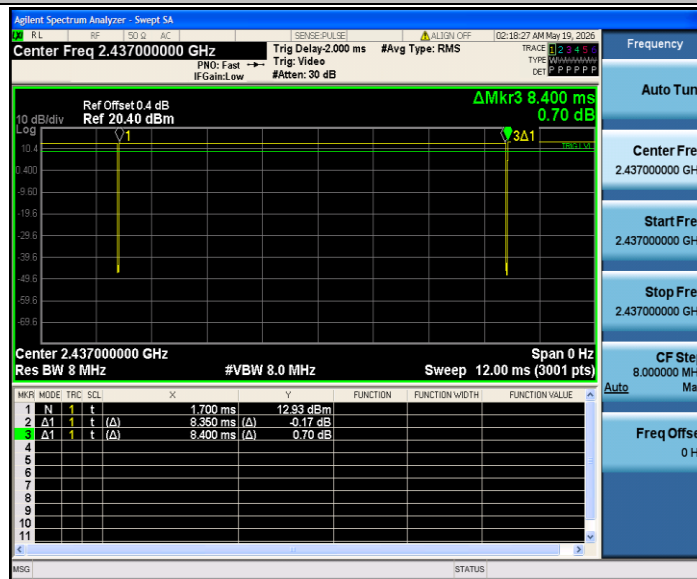
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	T Factor [dB]
11B	Ant1	2412	8.35	8.40	99.40	0.03	0.12
		2437	8.35	8.40	99.40	0.03	0.12
		2462	8.35	8.40	99.40	0.03	0.12
11G	Ant1	2412	0.15	0.19	78.95	1.03	6.67
		2437	0.15	0.20	75.00	1.25	6.67
		2462	0.15	0.19	78.95	1.03	6.67
11N20SISO	Ant1	2412	0.17	0.22	77.27	1.12	5.88
		2437	0.18	0.23	78.26	1.06	5.56
		2462	0.18	0.22	81.82	0.87	5.56
11N40SISO	Ant1	2422	0.18	0.22	81.82	0.87	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

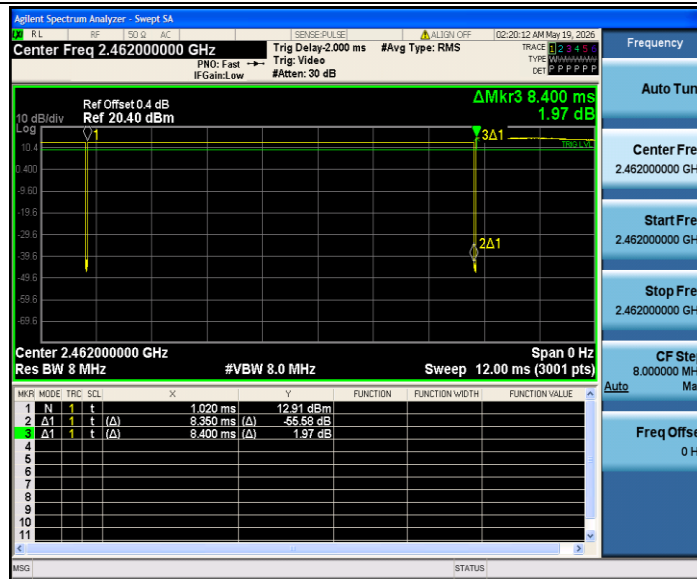
11B_Ant1_2412



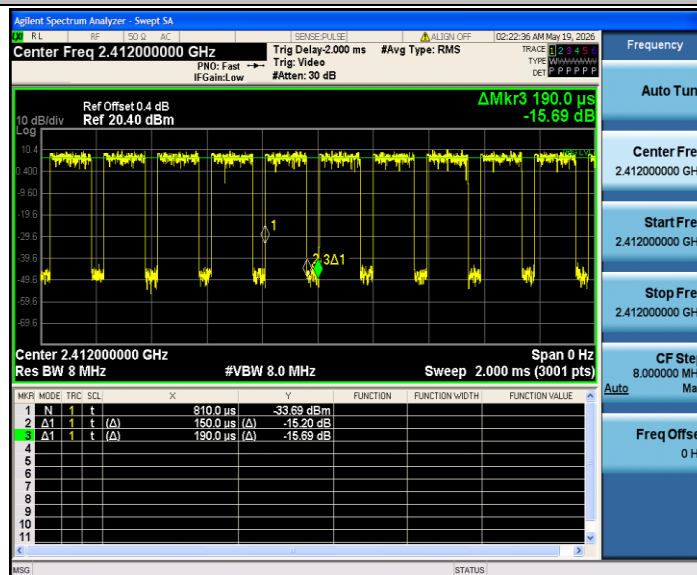
11B_Ant1_2437



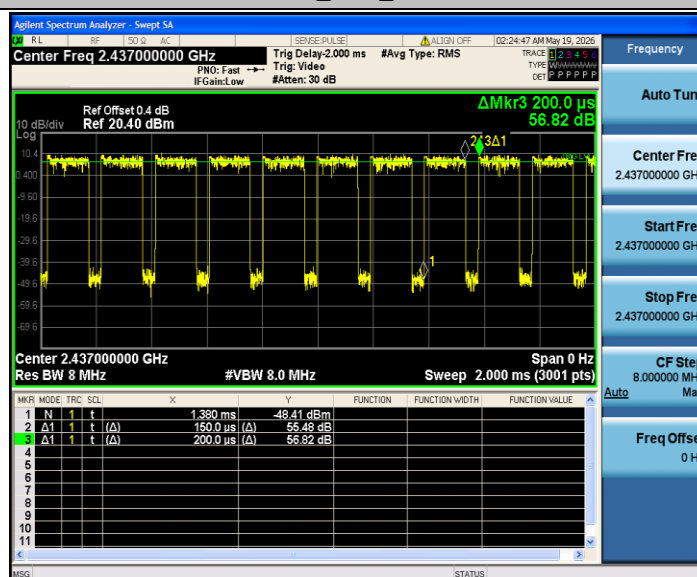
11B_Ant1_2462



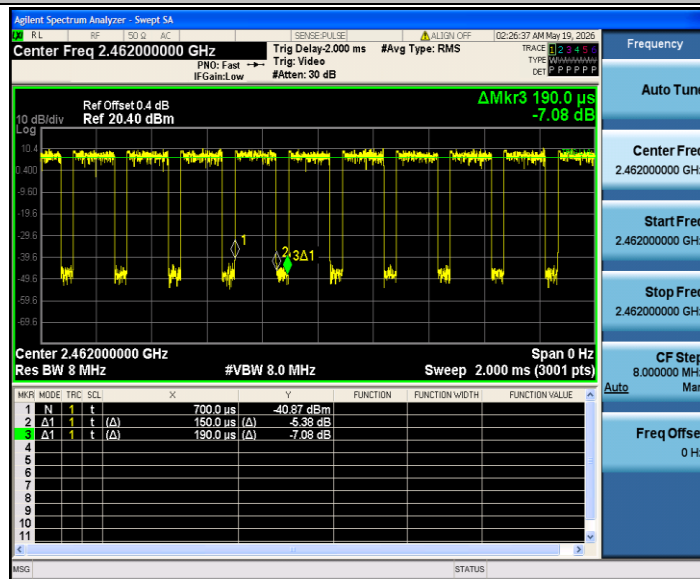
11G_Ant1_2412



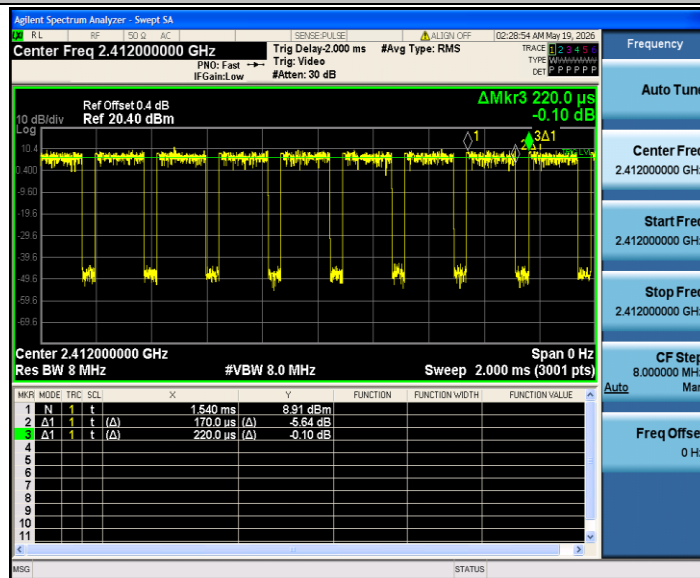
11G_Ant1_2437



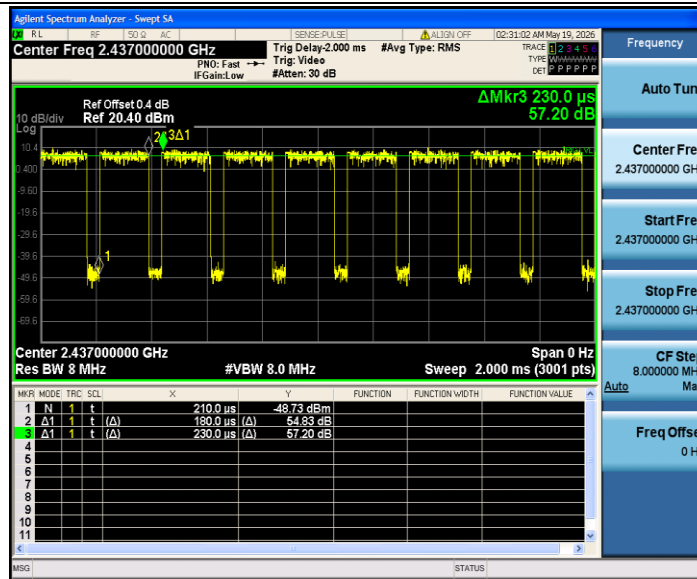
11G_Ant1_2462



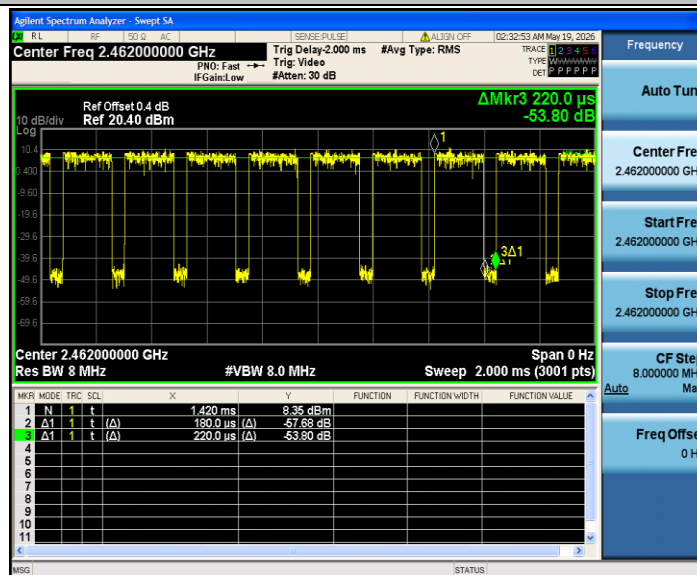
11N20SISO_Ant1_2412



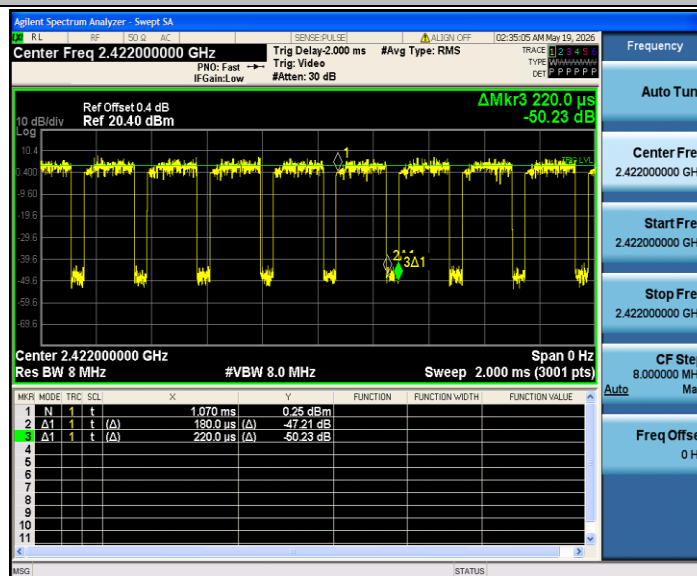
11N20SISO_Ant1_2437



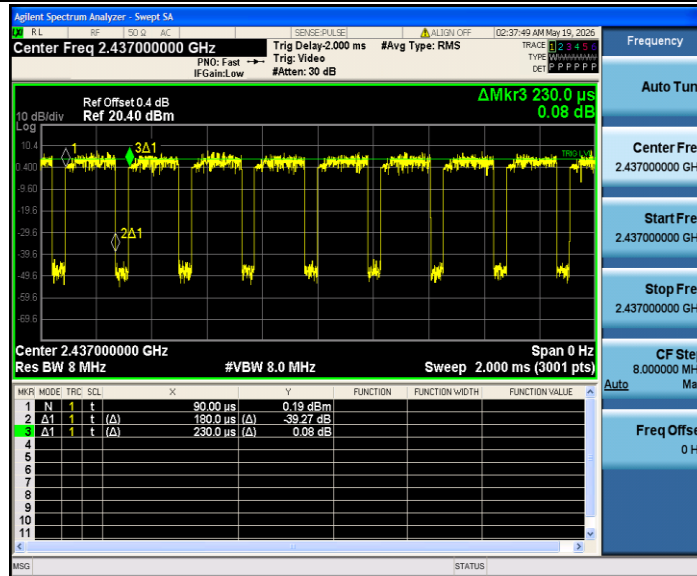
11N20SISO_Ant1_2462



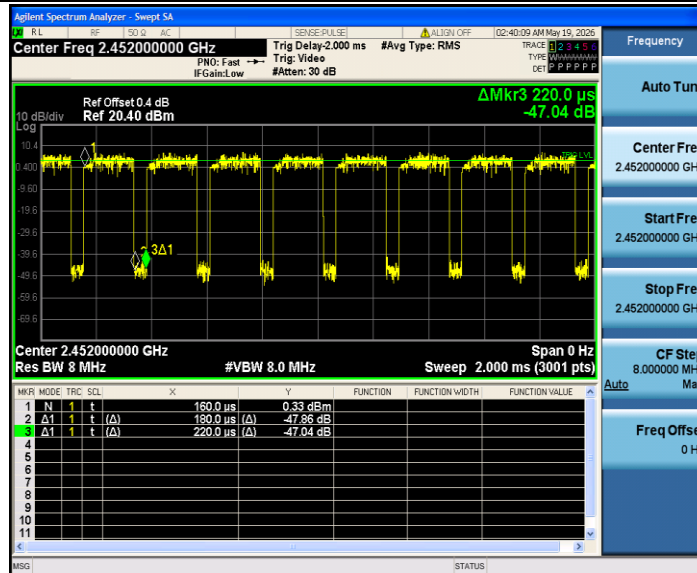
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix H: Emissions in Restricted Bands

Test Result

TestMod e	Antenn a	ChNam e	Frequenc y[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	-60.12	2.00	0.03	37.11	≤54	PASS
				AV	2389.830	-57.46	2.00	0.03	39.77	≤54	PASS
				AV	2390.000	-57.96	2.00	0.03	39.27	≤54	PASS
				Peak	2310.000	-51.05	2.00	0.00	46.15	≤74	PASS
				Peak	2321.840	-48.5	2.00	0.00	48.70	≤74	PASS
				Peak	2390.000	-50.29	2.00	0.00	46.91	≤74	PASS
		High	2462	AV	2483.500	-58.02	2.00	0.03	39.21	≤54	PASS
				AV	2484.330	-57.87	2.00	0.03	39.36	≤54	PASS
				AV	2500.000	-59.04	2.00	0.03	38.19	≤54	PASS
				Peak	2483.500	-49.83	2.00	0.00	47.37	≤74	PASS
				Peak	2492.580	-48.81	2.00	0.00	48.39	≤74	PASS
				Peak	2500.000	-51.18	2.00	0.00	46.02	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-59.78	2.00	1.03	38.45	≤54	PASS
				AV	2373.190	-58.65	2.00	1.03	39.58	≤54	PASS
				AV	2390.000	-59.4	2.00	1.03	38.83	≤54	PASS
				Peak	2310.000	-52.27	2.00	0.00	44.93	≤74	PASS
				Peak	2364.220	-48.54	2.00	0.00	48.66	≤74	PASS
				Peak	2390.000	-52.09	2.00	0.00	45.11	≤74	PASS
		High	2462	AV	2483.500	-59.02	2.00	1.03	39.21	≤54	PASS
				AV	2490.930	-58.55	2.00	1.03	39.68	≤54	PASS
				AV	2500.000	-59.23	2.00	1.03	39.00	≤54	PASS
				Peak	2483.500	-50.74	2.00	0.00	46.46	≤74	PASS
				Peak	2488.950	-49.18	2.00	0.00	48.02	≤74	PASS
				Peak	2500.000	-51.43	2.00	0.00	45.77	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-59.93	2.00	1.12	38.39	≤54	PASS
				AV	2383.330	-58.53	2.00	1.12	39.79	≤54	PASS
				AV	2390.000	-59.08	2.00	1.12	39.24	≤54	PASS
				Peak	2310.000	-50.15	2.00	0.00	47.05	≤74	PASS
				Peak	2331.070	-48.01	2.00	0.00	49.19	≤74	PASS
				Peak	2390.000	-51.81	2.00	0.00	45.39	≤74	PASS
		High	2462	AV	2483.500	-59.18	2.00	0.87	38.89	≤54	PASS
				AV	2484.330	-58.48	2.00	0.87	39.59	≤54	PASS
				AV	2500.000	-59.33	2.00	0.87	38.74	≤54	PASS
				Peak	2483.500	-51.25	2.00	0.00	45.95	≤74	PASS
				Peak	2495.330	-48.97	2.00	0.00	48.23	≤74	PASS
				Peak	2500.000	-52.08	2.00	0.00	45.12	≤74	PASS

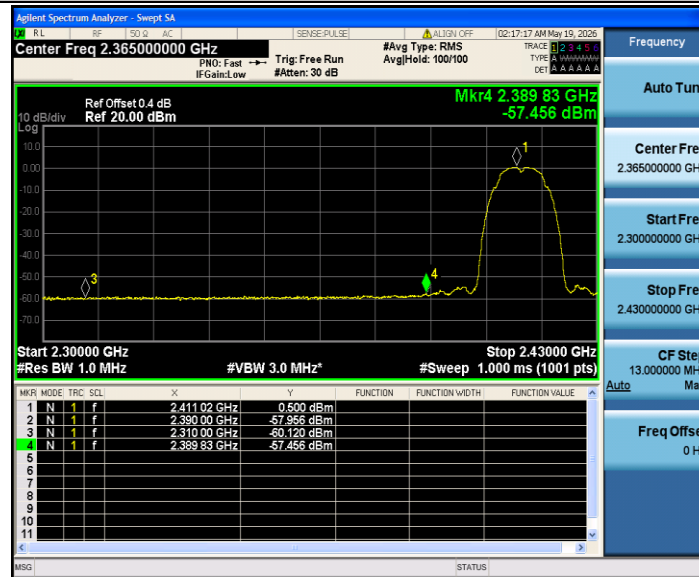
11N40SI SO	Ant1	Low	2422	AV	2310.000	-59.63	2.00	0.87	38.44	≤54	PASS
				AV	2387.450	-58.15	2.00	0.87	39.92	≤54	PASS
				AV	2390.000	-58.71	2.00	0.87	39.36	≤54	PASS
				Peak	2310.000	-51.43	2.00	0.00	45.77	≤74	PASS
				Peak	2384.150	-47.98	2.00	0.00	49.22	≤74	PASS
				Peak	2390.000	-50.88	2.00	0.00	46.32	≤74	PASS
		High	2452	AV	2483.500	-58.47	2.00	0.87	39.60	≤54	PASS
				AV	2483.875	-57.62	2.00	0.87	40.45	≤54	PASS
				AV	2500.000	-58.95	2.00	0.87	39.12	≤54	PASS
				Peak	2483.500	-48.52	2.00	0.00	48.68	≤74	PASS
				Peak	2487.375	-48.41	2.00	0.00	48.79	≤74	PASS
				Peak	2500.000	-50.66	2.00	0.00	46.54	≤74	PASS

Note:

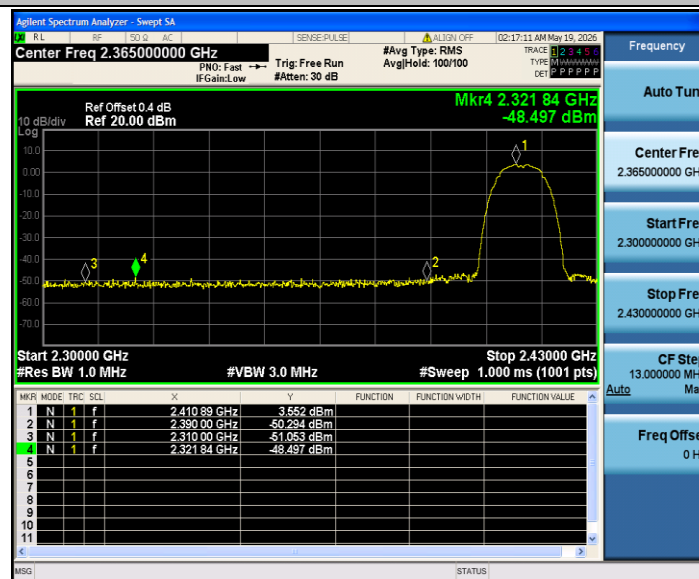
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

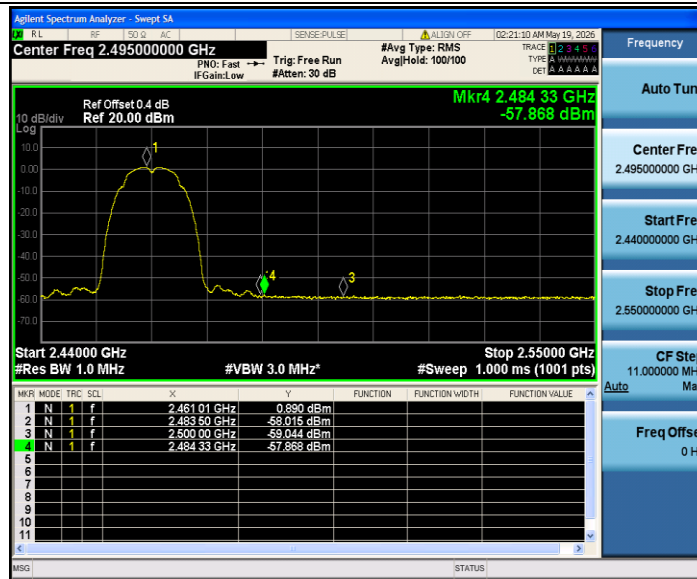
11B_Ant1_Low_2412_AV



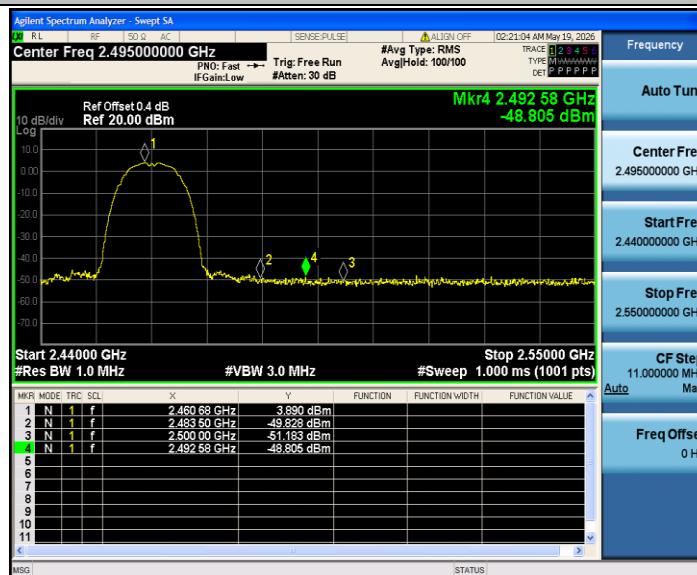
11B_Ant1_Low_2412_Peak



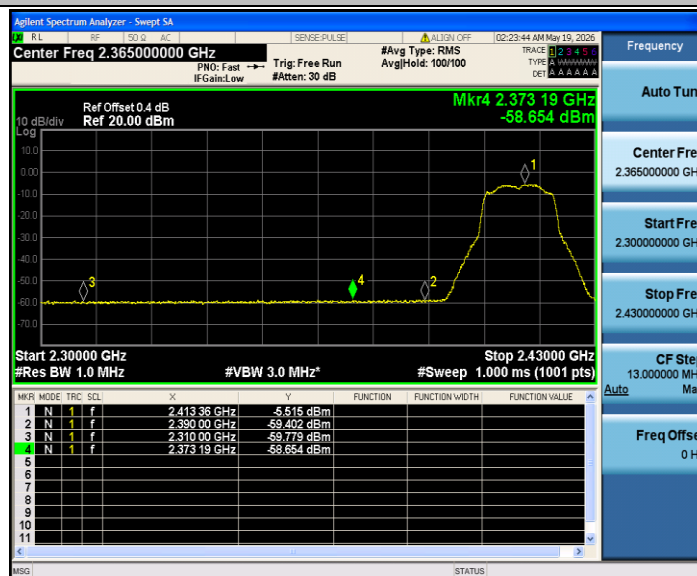
11B_Ant1_High_2462_AV



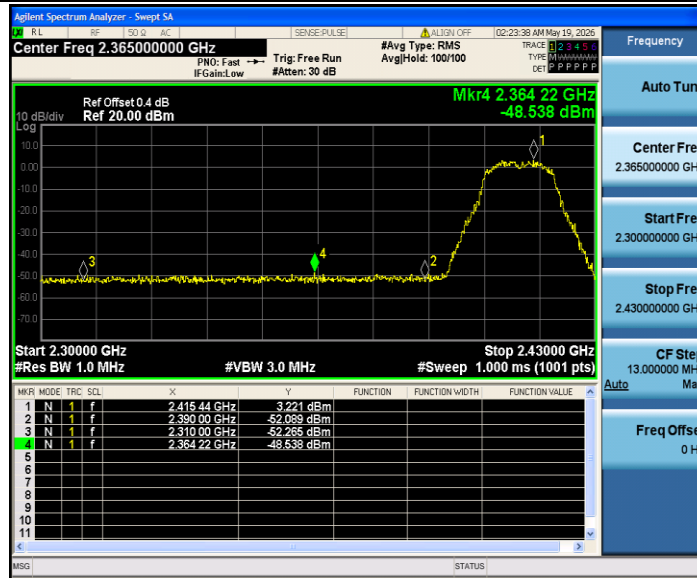
11B_Ant1_High_2462_Peak



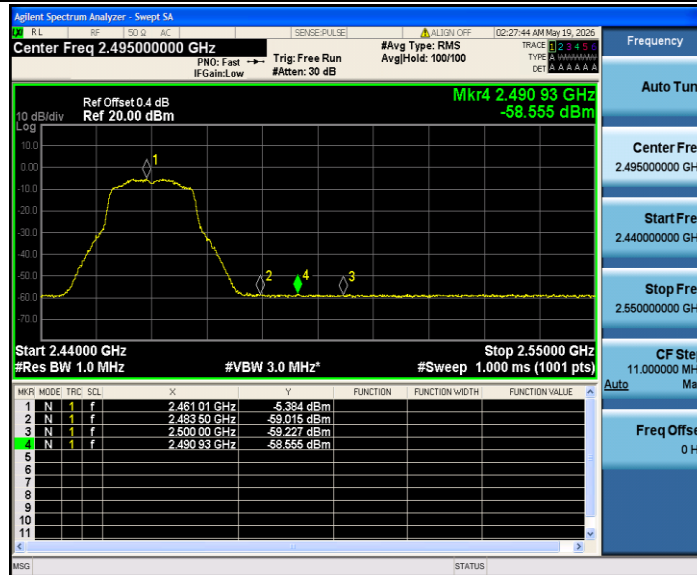
11G_Ant1_Low_2412_AV



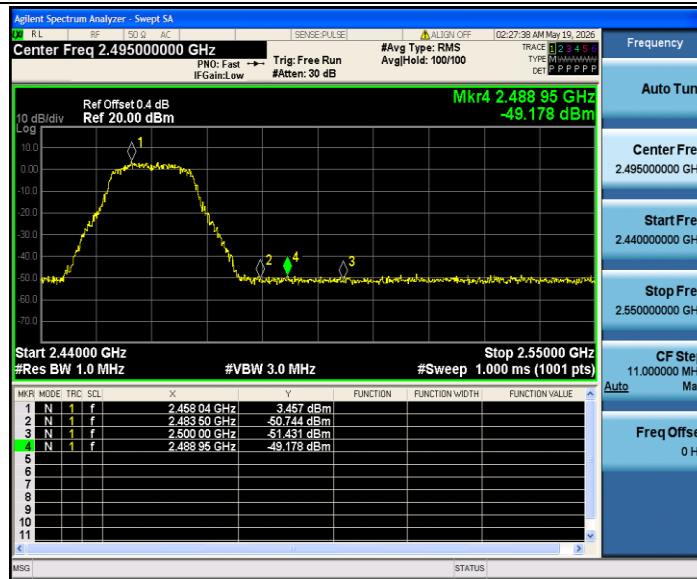
11G_Ant1_Low_2412_Peak



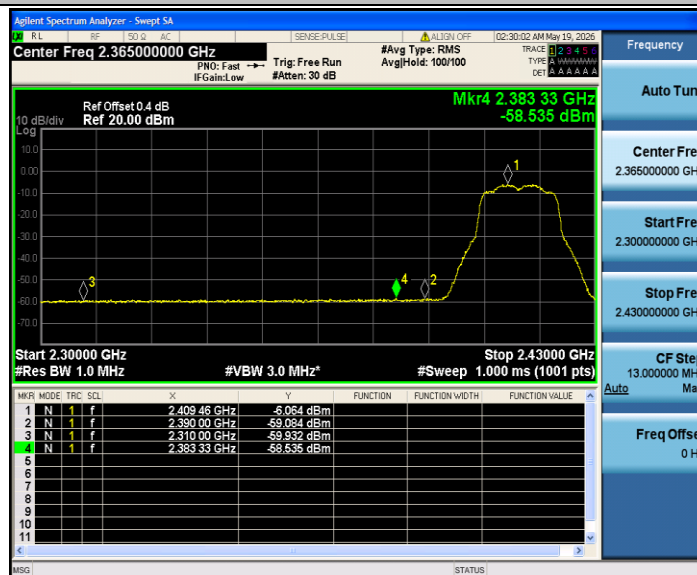
11G_Ant1_High_2462_AV



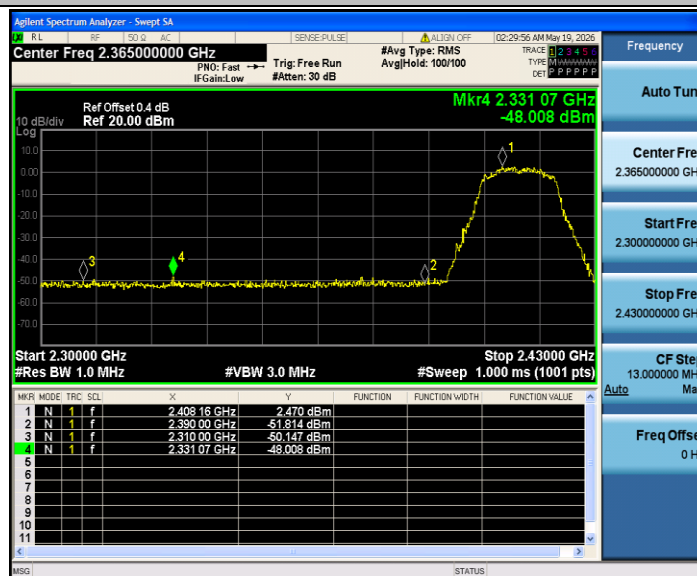
11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV



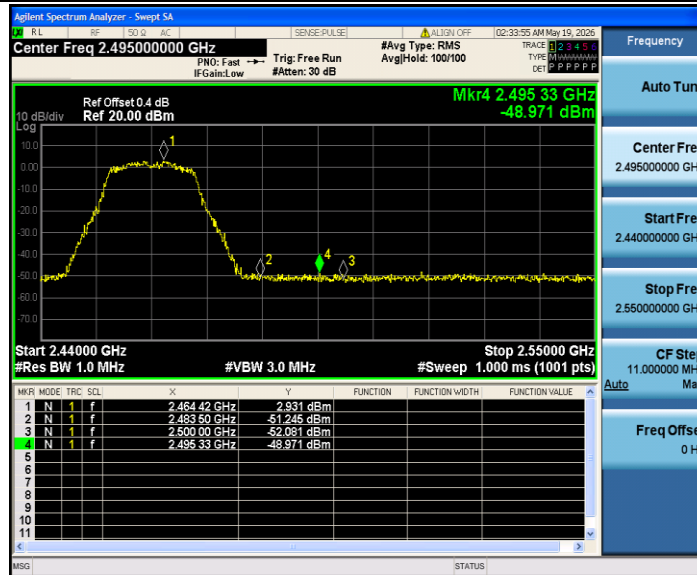
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



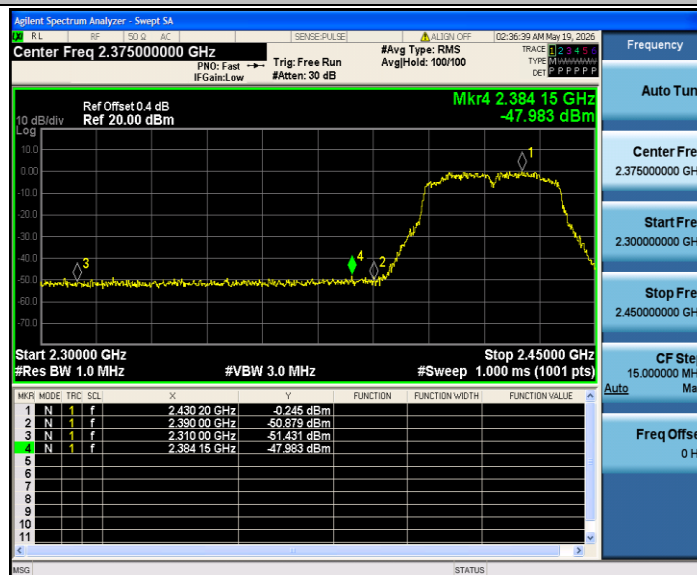
11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



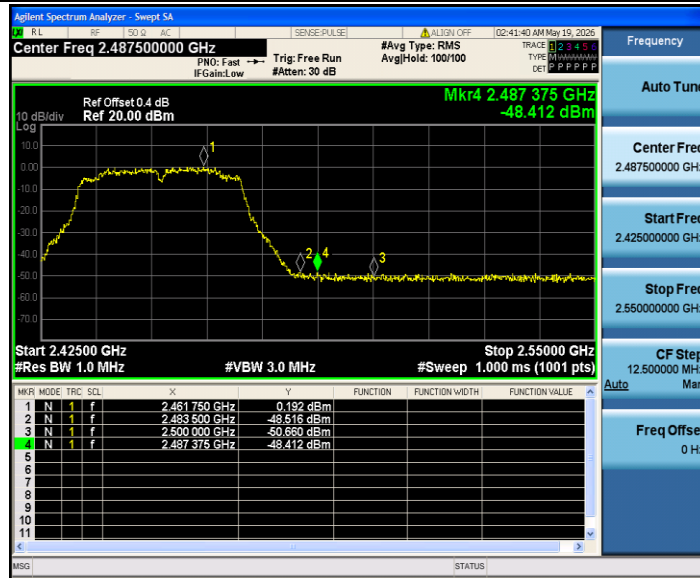
11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



11N40SISO_Ant1_High_2452_Peak



FCC Appendix RF Test Data for 2.4GWiFi Antenna 2

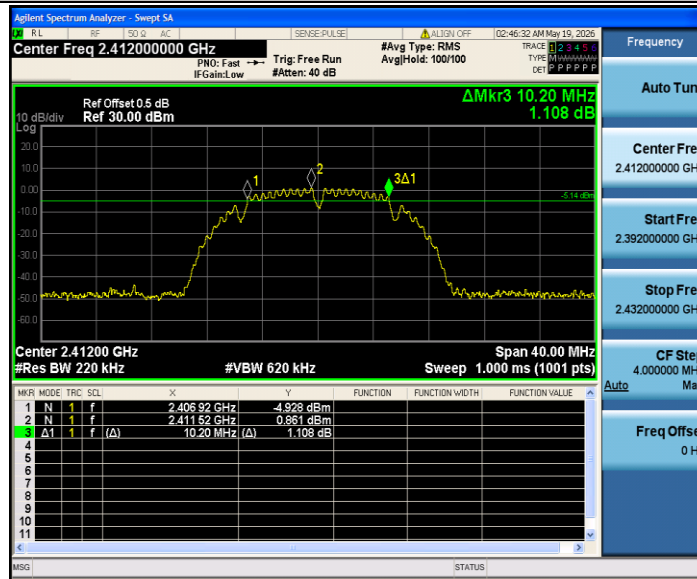
Appendix A: DTS Bandwidth

Test Result

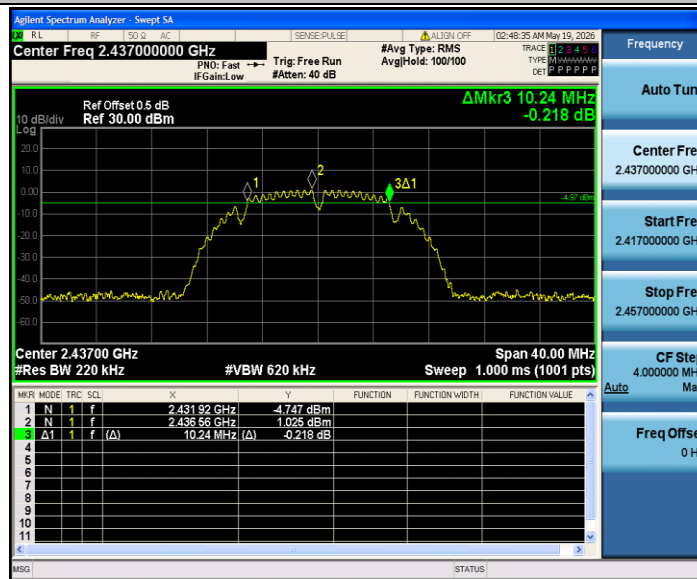
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant2	2412	15.880	2404.040	2419.920	0.5	PASS
		2437	15.400	2429.280	2444.680	0.5	PASS
		2462	15.720	2454.280	2470.000	0.5	PASS
11N20SISO	Ant2	2412	16.520	2403.440	2419.960	0.5	PASS
		2437	15.840	2429.320	2445.160	0.5	PASS
		2462	16.960	2453.520	2470.480	0.5	PASS
11N40SISO	Ant2	2422	35.120	2404.800	2439.920	0.5	PASS
		2437	35.920	2419.080	2455.000	0.5	PASS
		2452	35.280	2434.640	2469.920	0.5	PASS

Test Graphs

11B_Ant2_2412



11B_Ant2_2437



11B_Ant2_2462



11G_Ant2_2412



11G_Ant2_2437



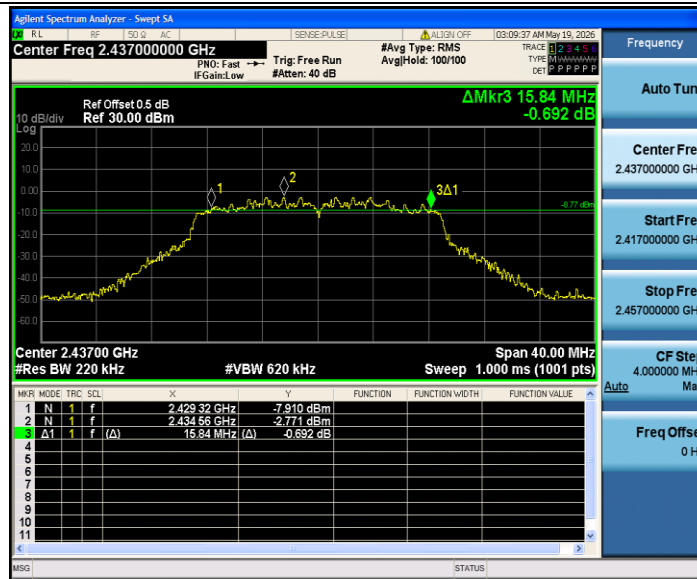
11G_Ant2_2462



11N20SISO_Ant2_2412



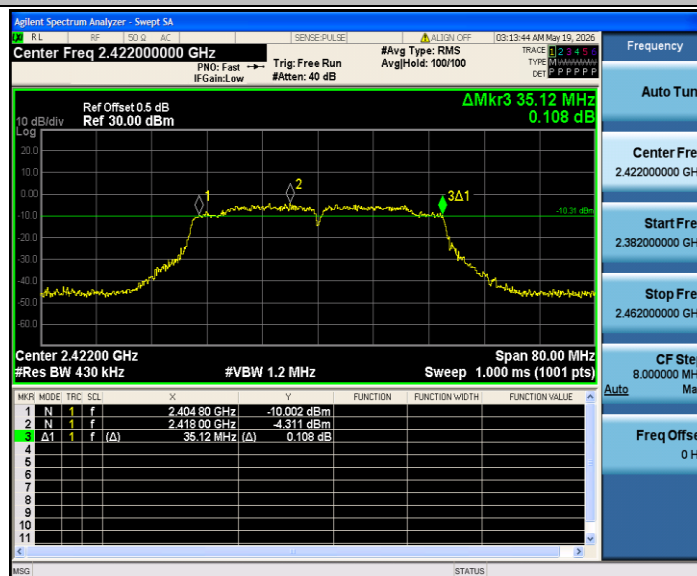
11N20SISO_Ant2_2437



11N20SISO_Ant2_2462



11N40SISO_Ant2_2422



11N40SISO_Ant2_2437



11N40SISO_Ant2_2452



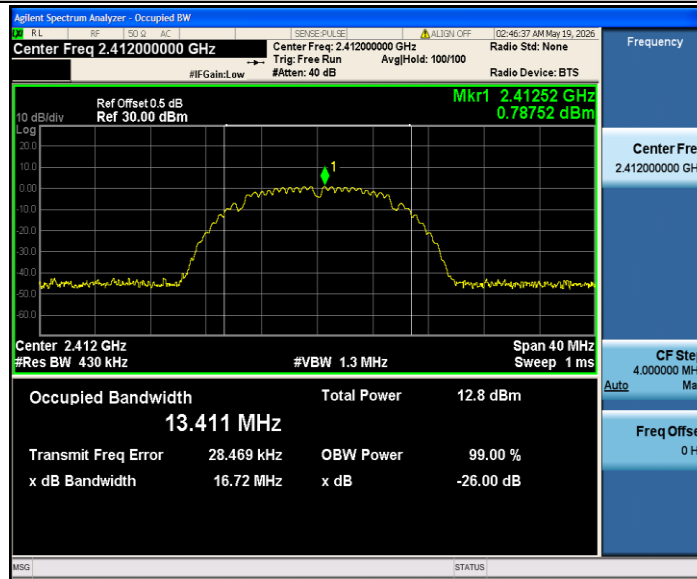
Appendix B: Occupied Channel Bandwidth

Test Result

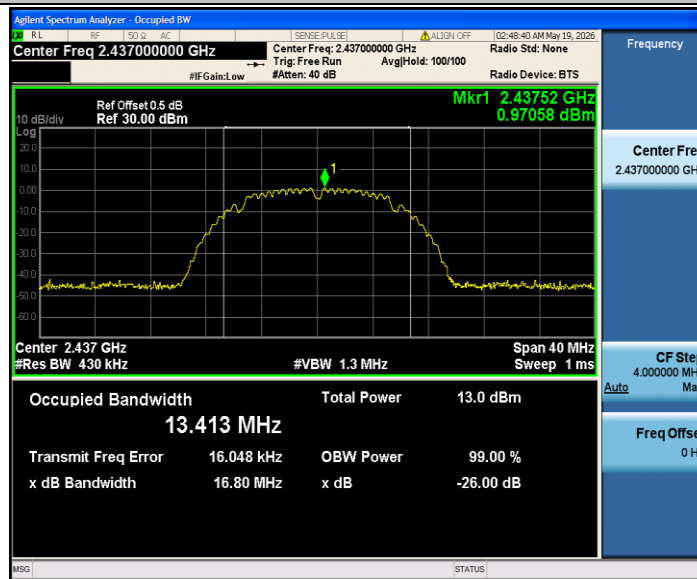
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	13.411	2405.3230	2418.7340	---	---
		2437	13.413	2430.3096	2443.7226	---	---
		2462	13.416	2455.3064	2468.7224	---	---
11G	Ant2	2412	16.912	2403.5571	2420.4691	---	---
		2437	16.806	2428.6351	2445.4411	---	---
		2462	16.910	2453.6130	2470.5230	---	---
11N20SISO	Ant2	2412	17.901	2403.0382	2420.9392	---	---
		2437	17.840	2428.0818	2445.9218	---	---
		2462	17.891	2453.0749	2470.9659	---	---
11N40SISO	Ant2	2422	36.005	2404.1211	2440.1261	---	---
		2437	36.028	2419.0819	2455.1099	---	---
		2452	36.092	2434.0775	2470.1695	---	---

Test Graphs

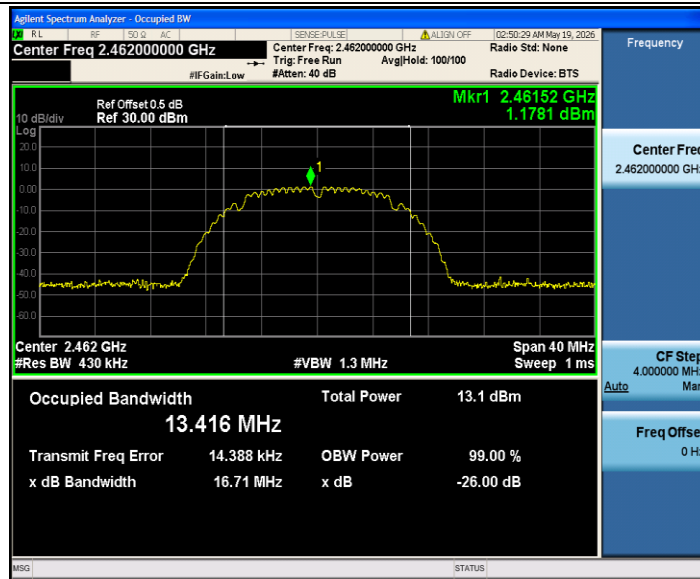
11B_Ant2_2412



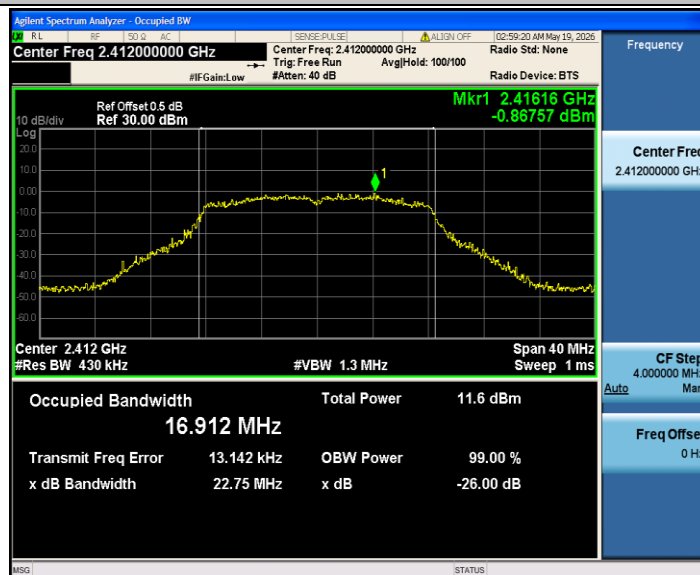
11B_Ant2_2437



11B_Ant2_2462



11G_Ant2_2412



11G_Ant2_2437

