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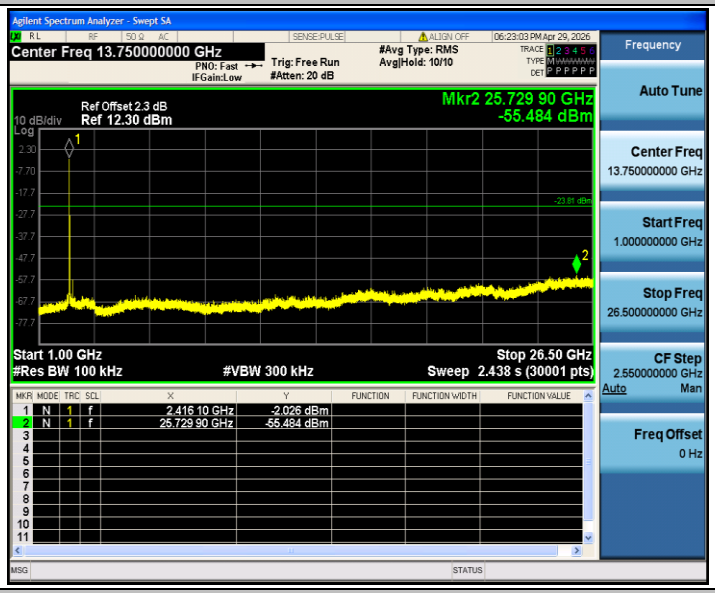
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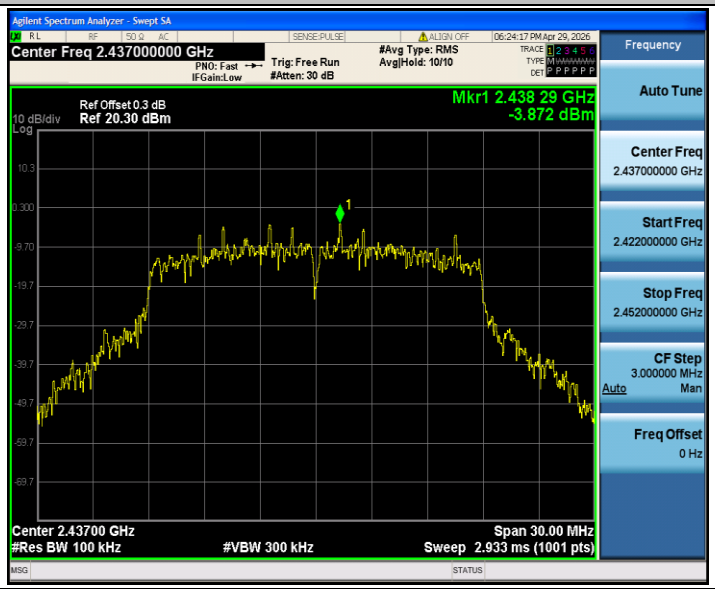
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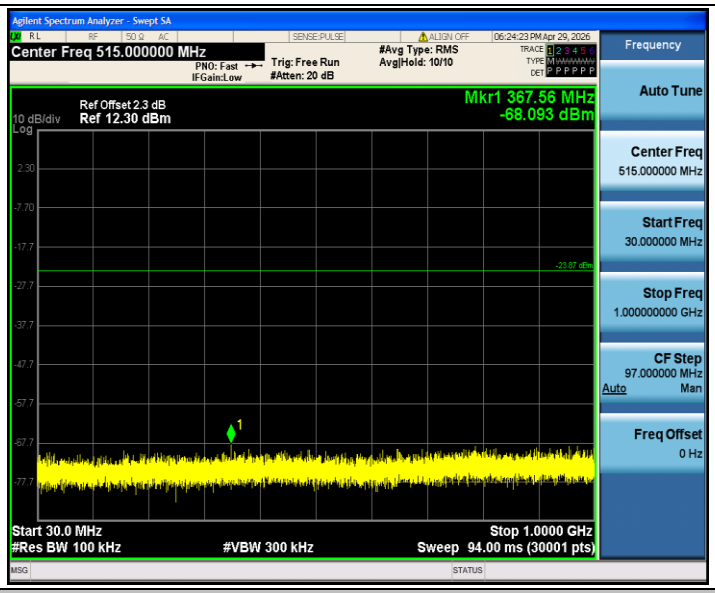

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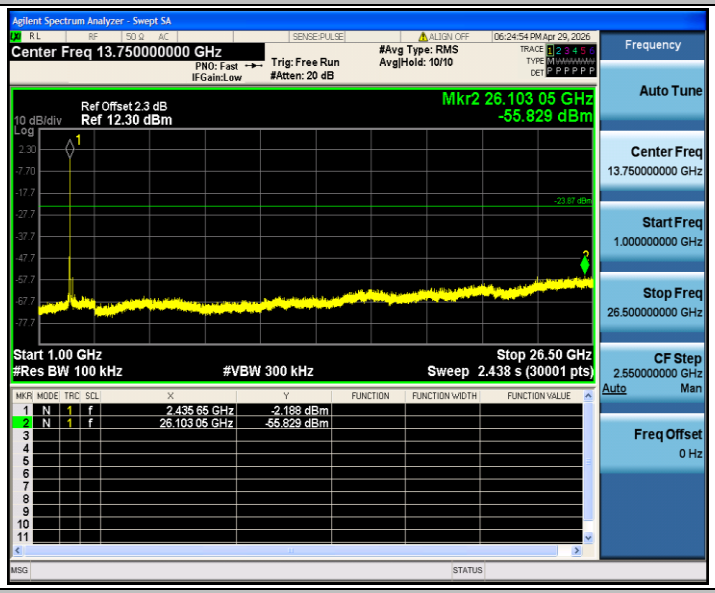

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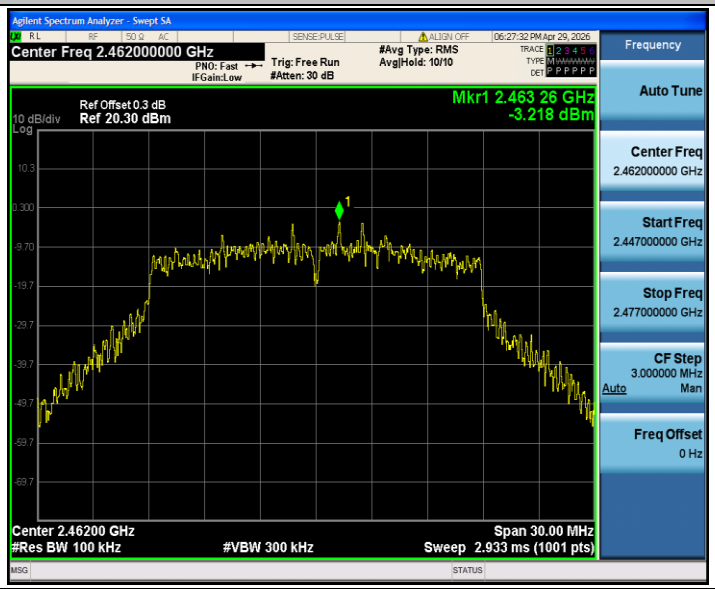

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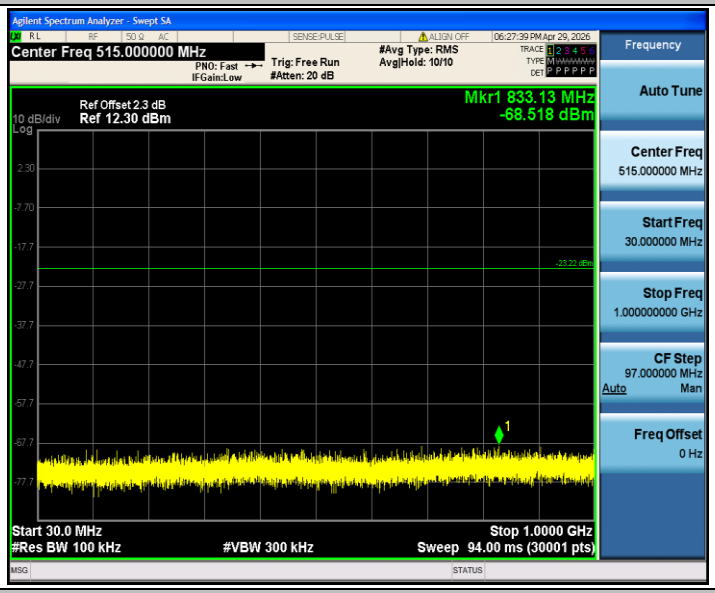
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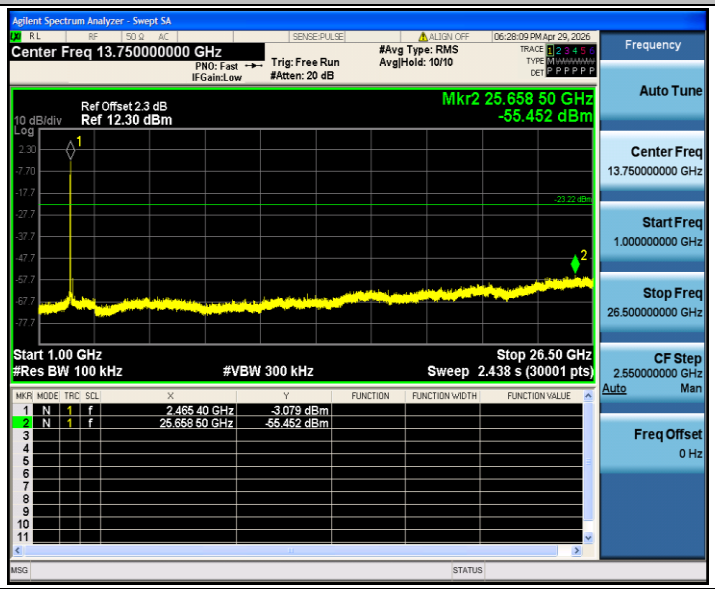
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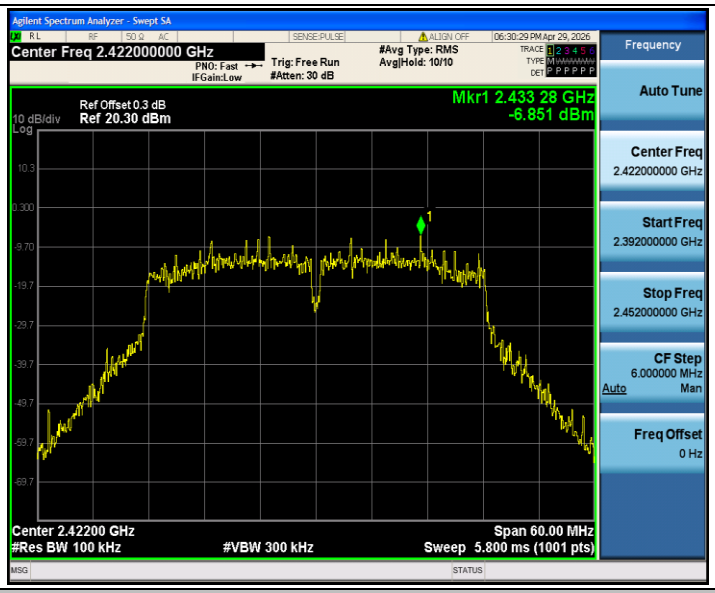

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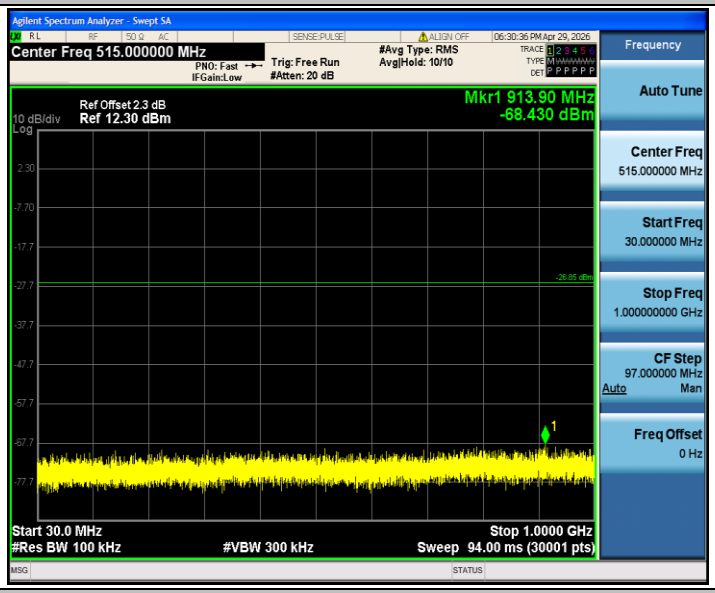

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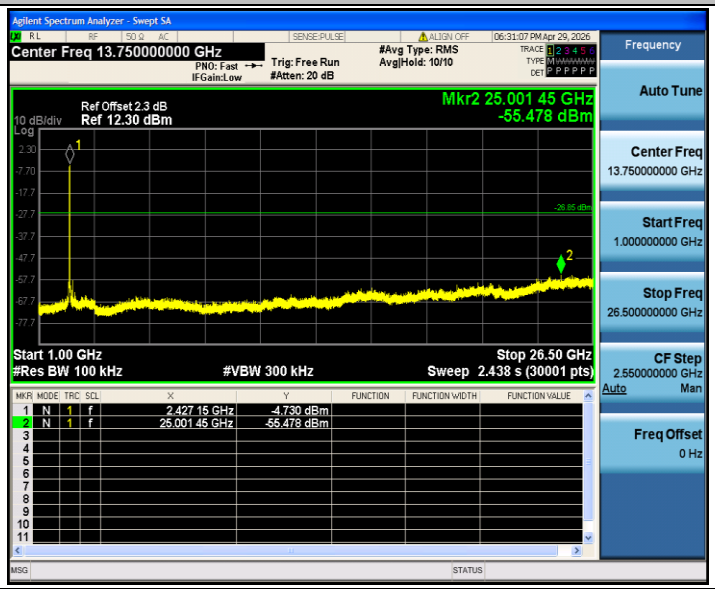

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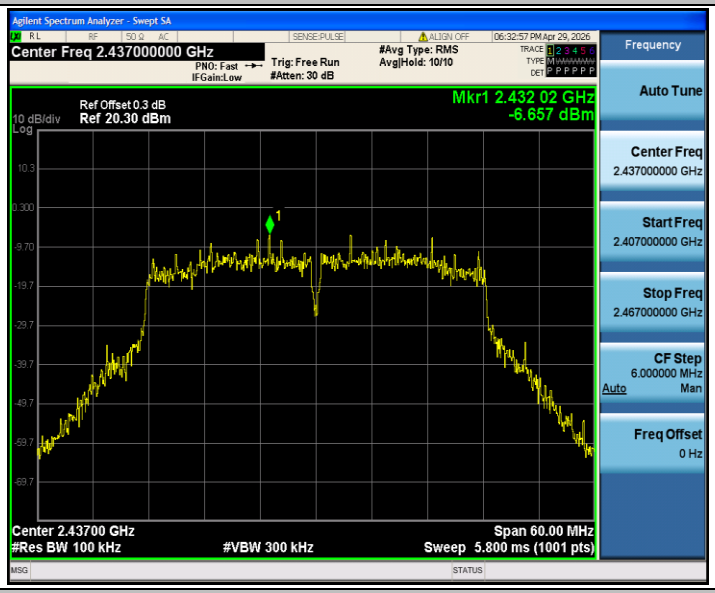
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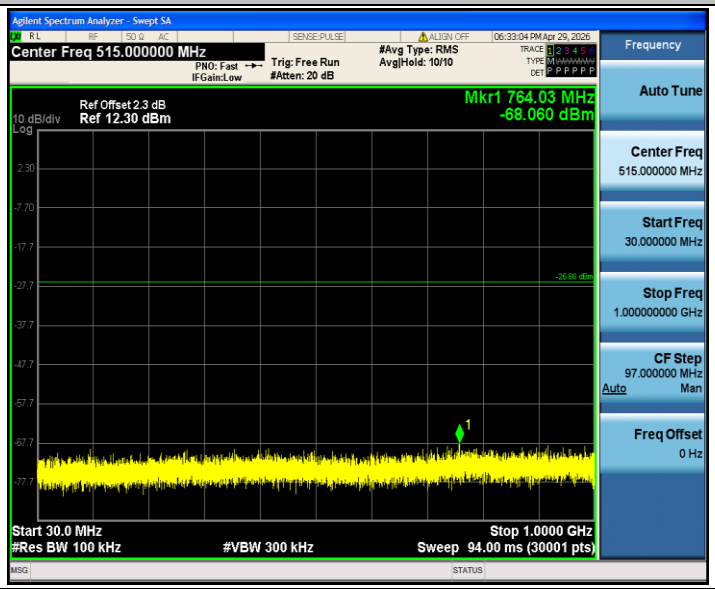
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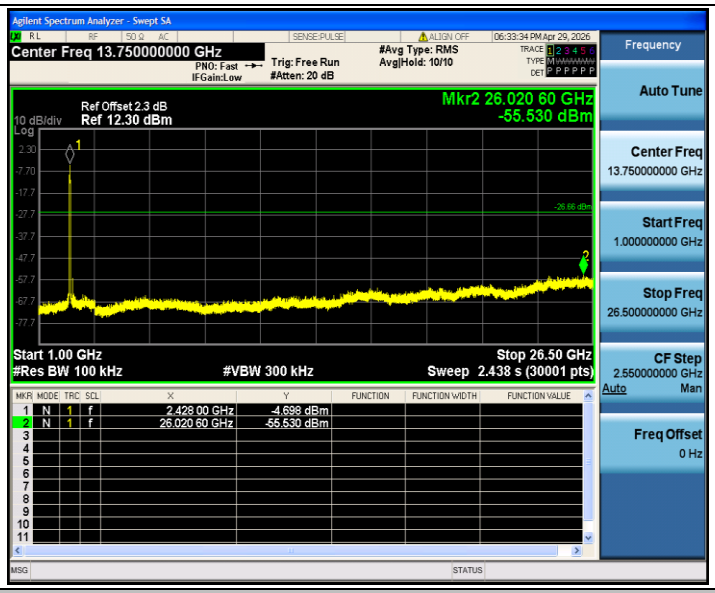

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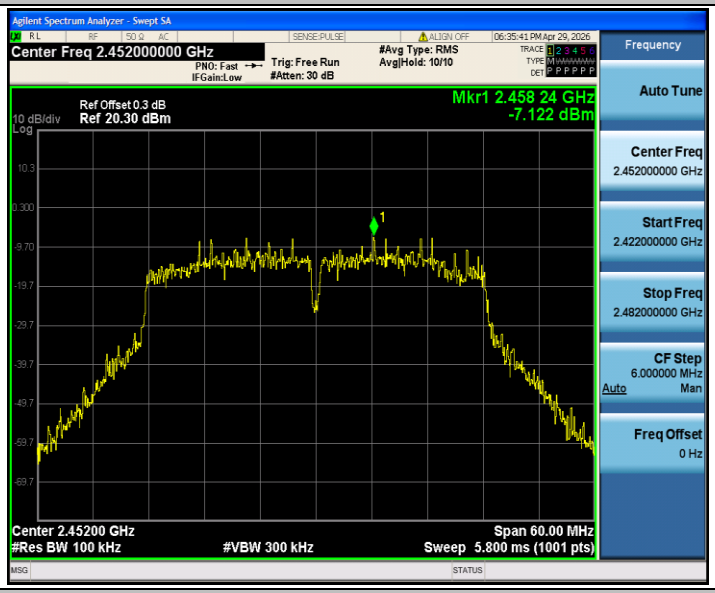

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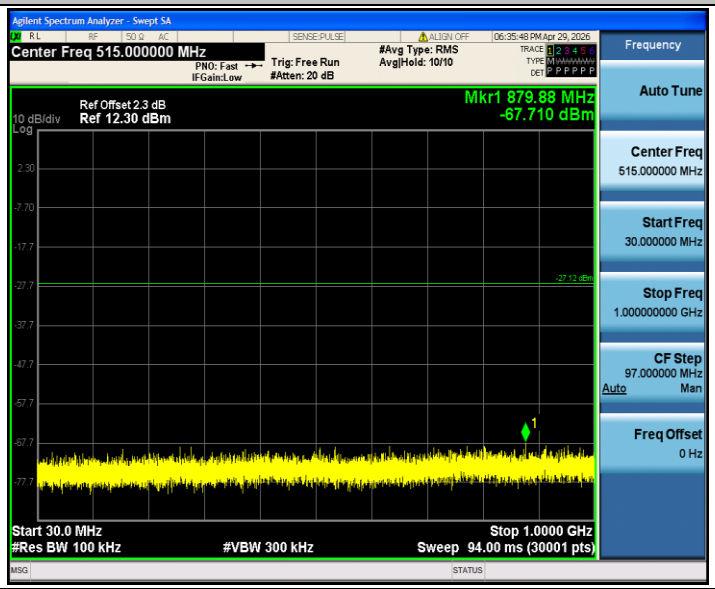

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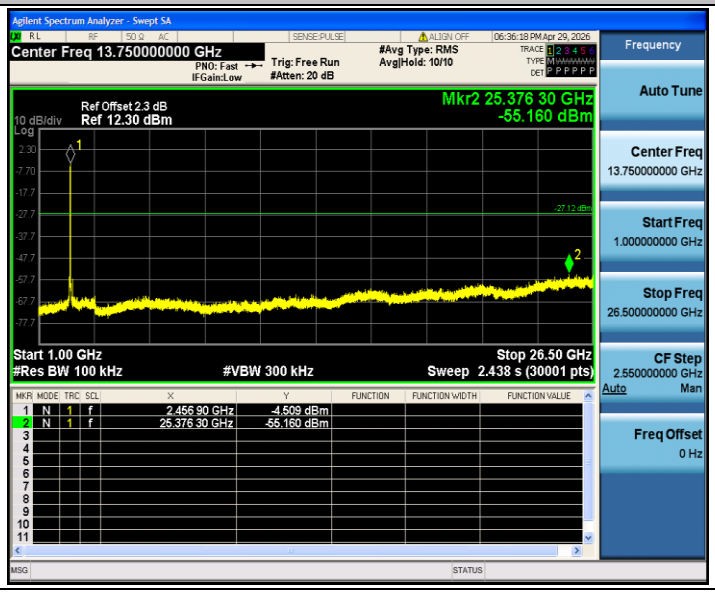

Appendix G: Duty Cycle

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	8.36	8.40	99.52	0.02	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	0.17	0.22	77.27	1.12	5.88
		2437	0.18	0.23	78.26	1.06	5.56
		2462	0.17	0.22	77.27	1.12	5.88
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

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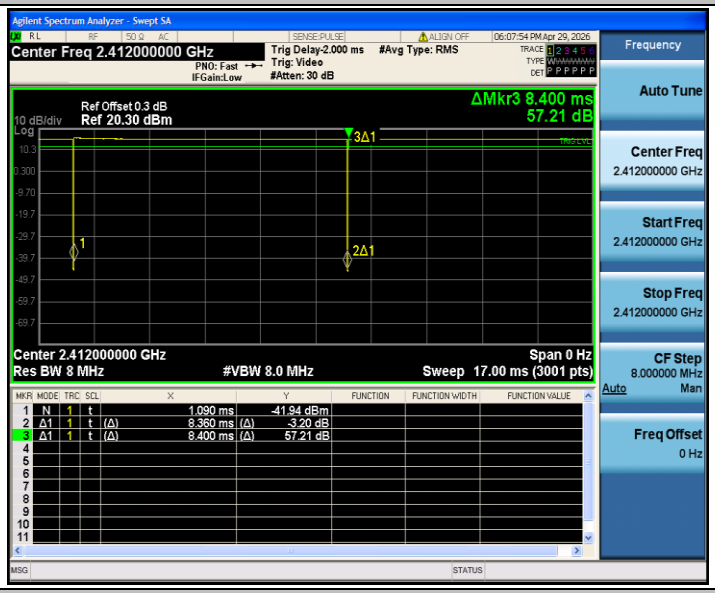
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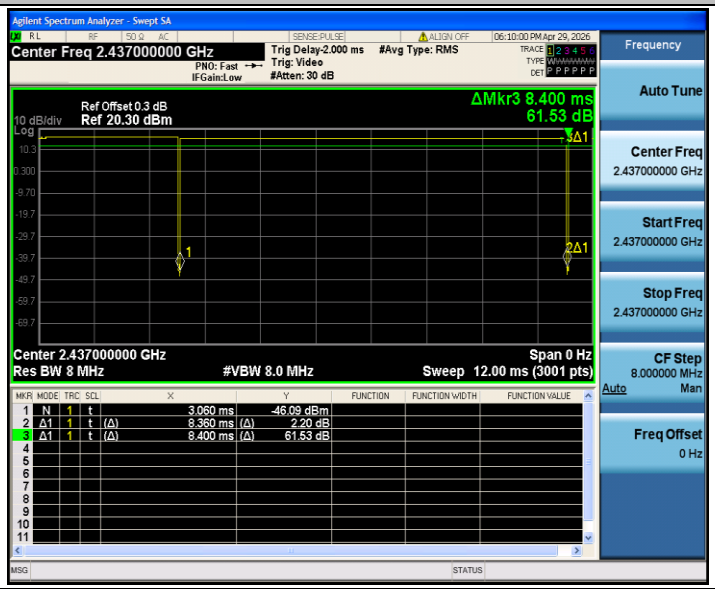
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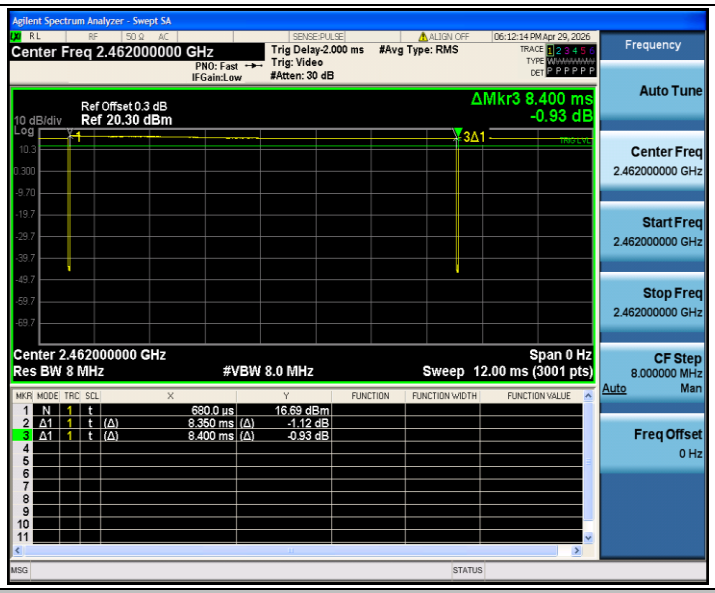

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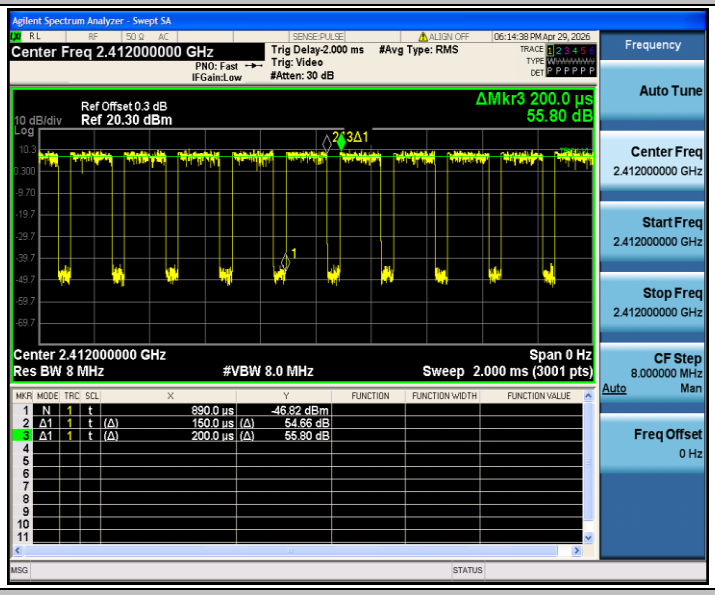

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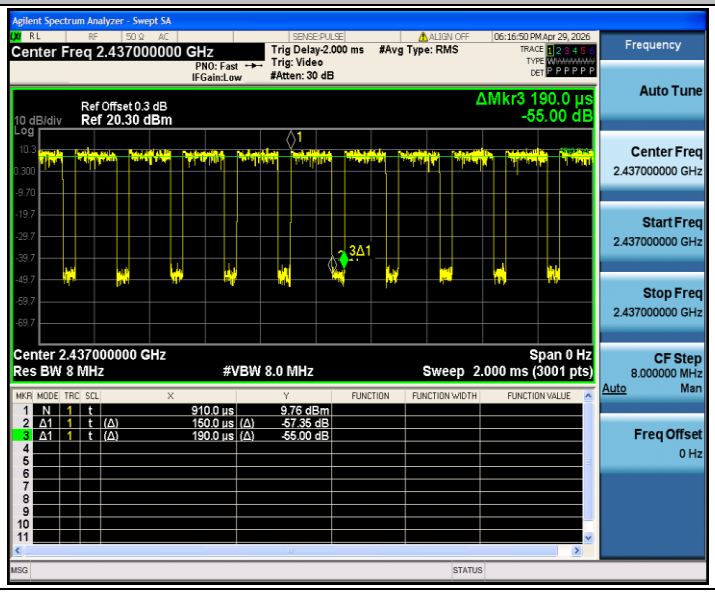

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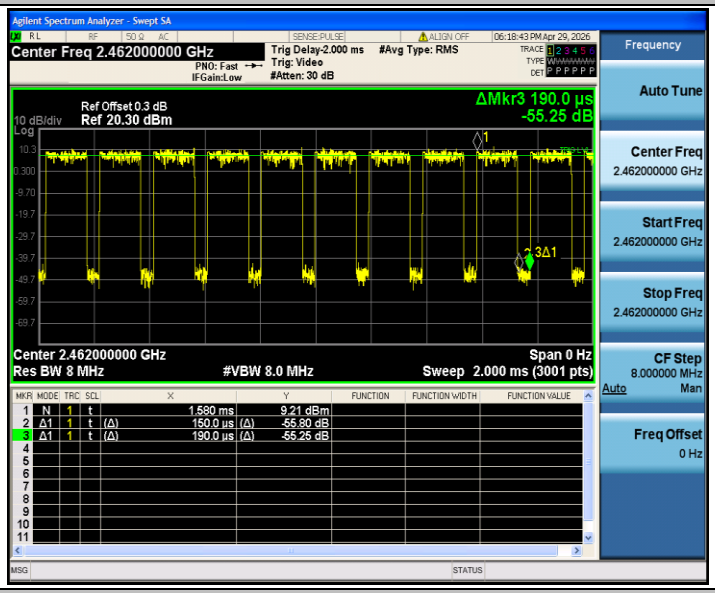
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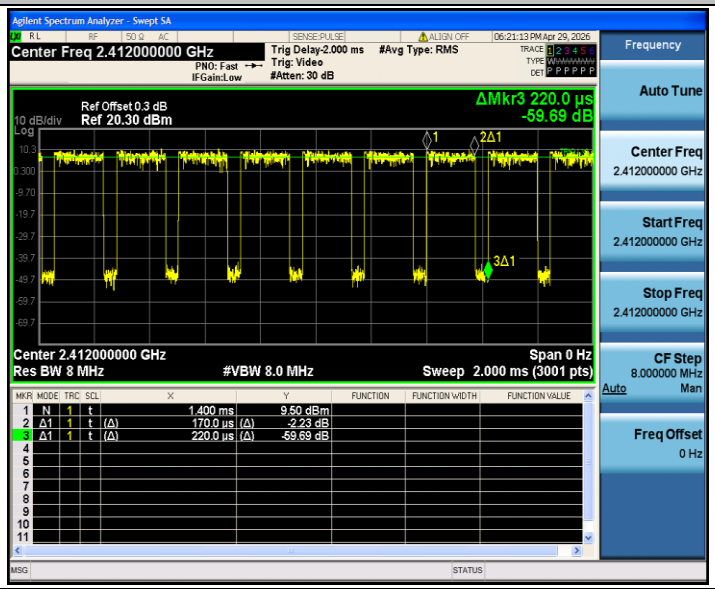
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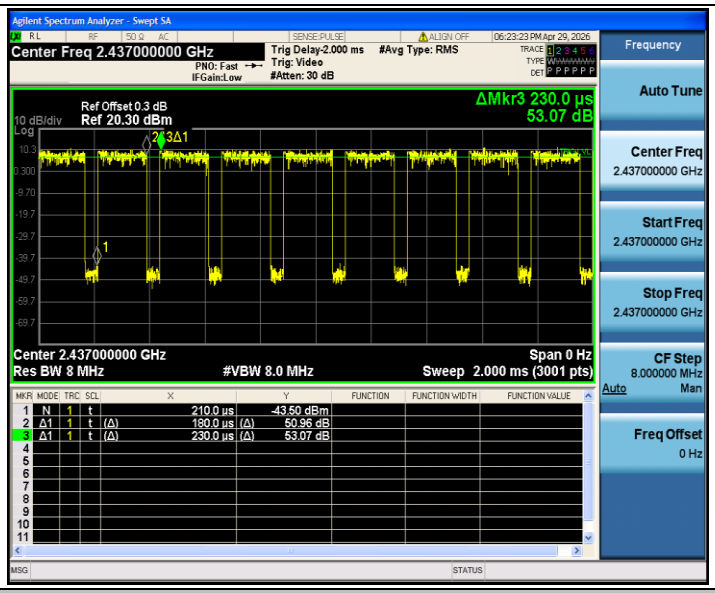

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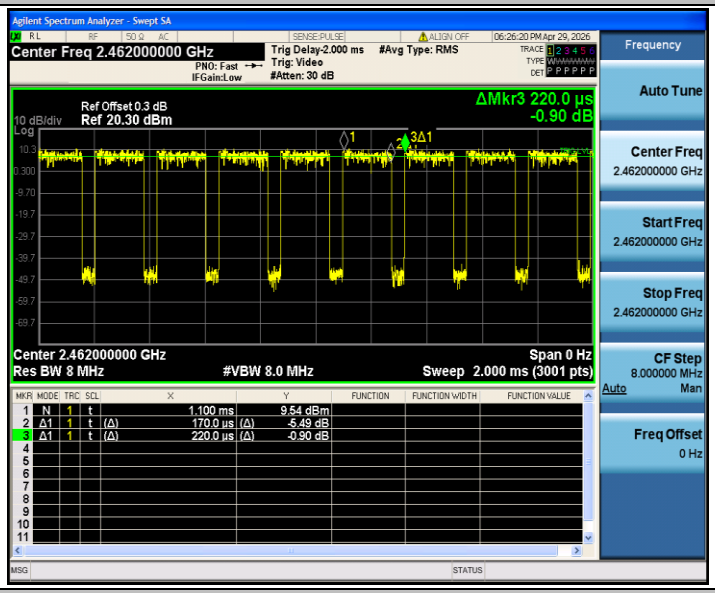
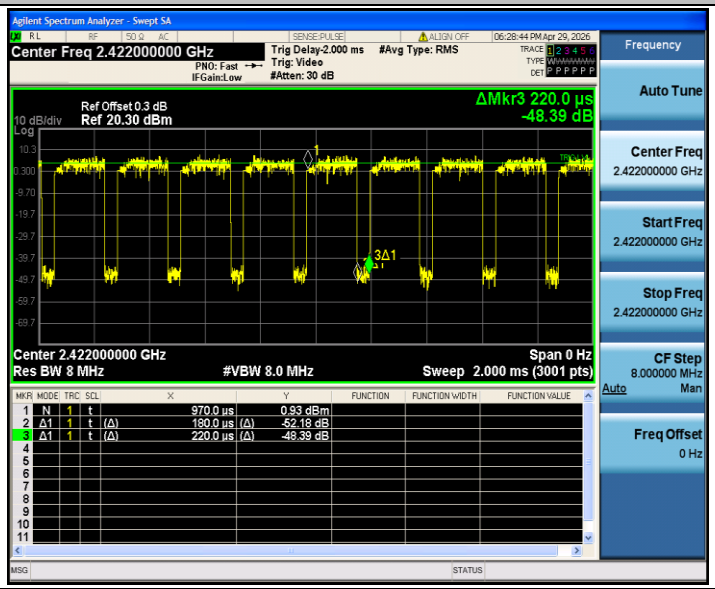


11N40SISO_Ant1_2422



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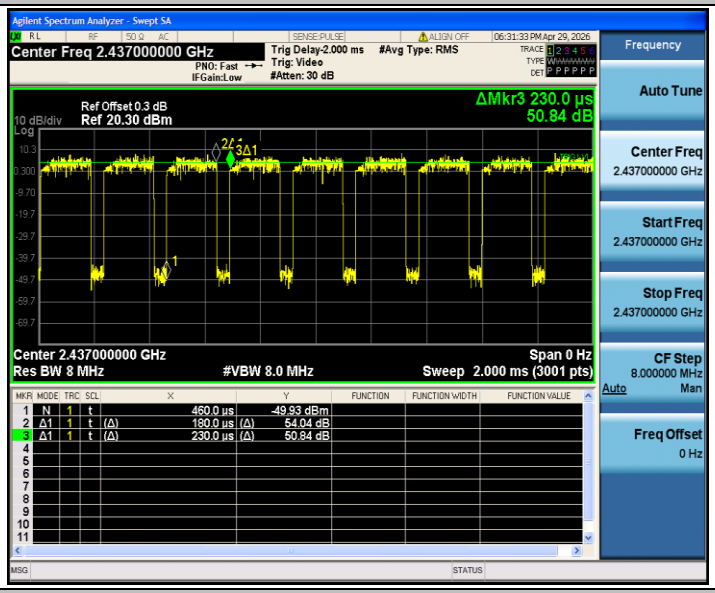
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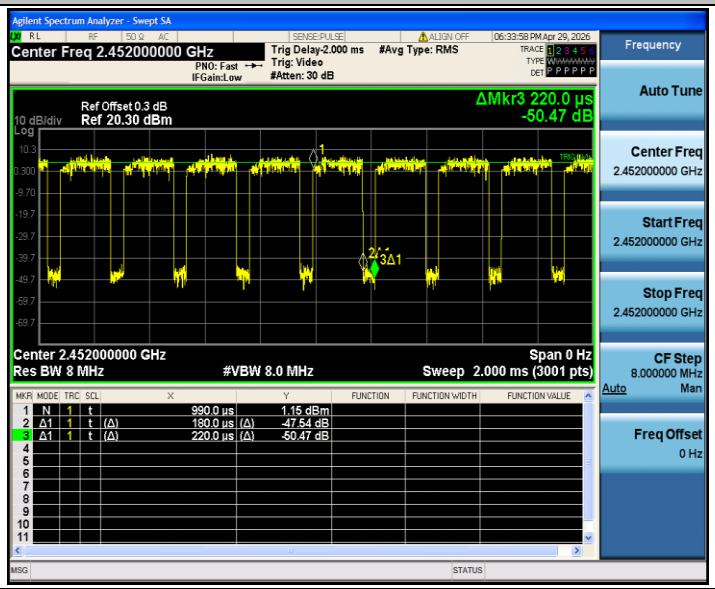

Appendix H: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency[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	-59.76	2.00	0.02	37.46	≤54	PASS
				AV	2386.190	-53.27	2.00	0.02	43.95	≤54	PASS
				AV	2390.000	-55.81	2.00	0.02	41.41	≤54	PASS
				Peak	2310.000	-51	2.00	0.00	46.20	≤74	PASS
				Peak	2386.450	-45.9	2.00	0.00	51.30	≤74	PASS
				Peak	2390.000	-48.55	2.00	0.00	48.65	≤74	PASS
		High	2462	AV	2483.500	-54.25	2.00	0.03	42.98	≤54	PASS
				AV	2488.290	-53.28	2.00	0.03	43.95	≤54	PASS
				AV	2500.000	-57.33	2.00	0.03	39.90	≤54	PASS
				Peak	2483.500	-47.63	2.00	0.00	49.57	≤74	PASS
				Peak	2484.220	-45.45	2.00	0.00	51.75	≤74	PASS
				Peak	2500.000	-49.82	2.00	0.00	47.38	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-59.58	2.00	1.25	38.87	≤54	PASS
				AV	2388.920	-58.74	2.00	1.25	39.71	≤54	PASS
				AV	2390.000	-58.97	2.00	1.25	39.48	≤54	PASS
				Peak	2310.000	-52.77	2.00	0.00	44.43	≤74	PASS
				Peak	2331.850	-48.6	2.00	0.00	48.60	≤74	PASS
				Peak	2390.000	-51.76	2.00	0.00	45.44	≤74	PASS
		High	2462	AV	2483.500	-58.82	2.00	1.03	39.41	≤54	PASS
				AV	2486.310	-58.21	2.00	1.03	40.02	≤54	PASS
				AV	2500.000	-59.95	2.00	1.03	38.28	≤54	PASS
				Peak	2483.500	-51.61	2.00	0.00	45.59	≤74	PASS
				Peak	2497.420	-49.07	2.00	0.00	48.13	≤74	PASS
				Peak	2500.000	-50.93	2.00	0.00	46.27	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-59.67	2.00	1.12	38.65	≤54	PASS
				AV	2389.310	-58.55	2.00	1.12	39.77	≤54	PASS
				AV	2390.000	-59.49	2.00	1.12	38.83	≤54	PASS
				Peak	2310.000	-52.45	2.00	0.00	44.75	≤74	PASS
				Peak	2347.320	-48.42	2.00	0.00	48.78	≤74	PASS
				Peak	2390.000	-51.69	2.00	0.00	45.51	≤74	PASS
		High	2462	AV	2483.500	-59.38	2.00	1.12	38.94	≤54	PASS
				AV	2487.850	-58.35	2.00	1.12	39.97	≤54	PASS
				AV	2500.000	-59.63	2.00	1.12	38.69	≤54	PASS
				Peak	2483.500	-51.16	2.00	0.00	46.04	≤74	PASS
				Peak	2488.290	-48.34	2.00	0.00	48.86	≤74	PASS
				Peak	2500.000	-52.75	2.00	0.00	44.45	≤74	PASS

11N40SISO	Ant1	Low	2422	AV	2310.000	-59.52	2.00	0.87	38.55	≤54	PASS
				AV	2387.300	-57.61	2.00	0.87	40.46	≤54	PASS
				AV	2390.000	-57.87	2.00	0.87	40.20	≤54	PASS
				Peak	2310.000	-51.88	2.00	0.00	45.32	≤74	PASS
				Peak	2389.550	-48.45	2.00	0.00	48.75	≤74	PASS
				Peak	2390.000	-49.61	2.00	0.00	47.59	≤74	PASS
		High	2452	AV	2483.500	-57.87	2.00	0.87	40.20	≤54	PASS
				AV	2486.625	-57.91	2.00	0.87	40.16	≤54	PASS
				AV	2500.000	-59.08	2.00	0.87	38.99	≤54	PASS
				Peak	2483.500	-50.53	2.00	0.00	46.67	≤74	PASS
				Peak	2485.625	-48.65	2.00	0.00	48.55	≤74	PASS
				Peak	2500.000	-52.23	2.00	0.00	44.97	≤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

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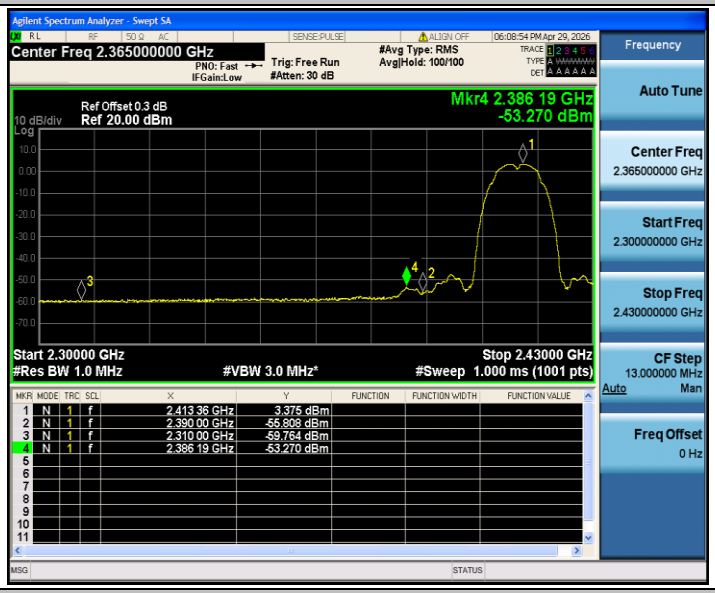
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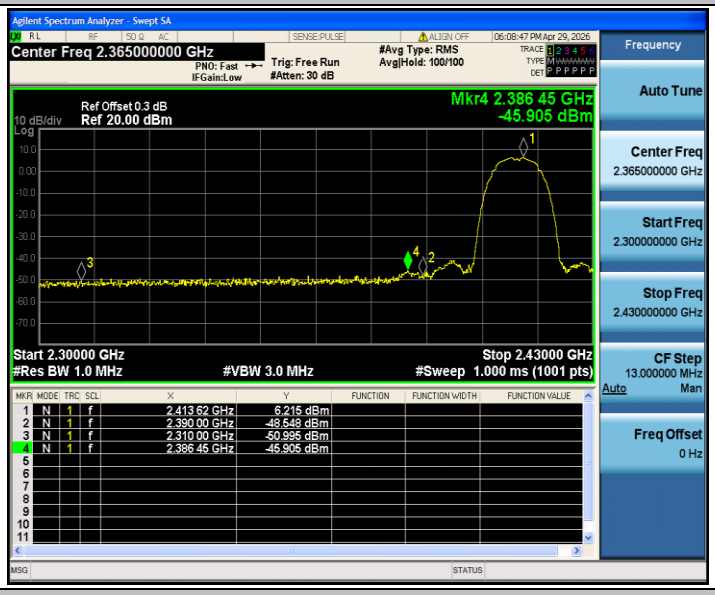
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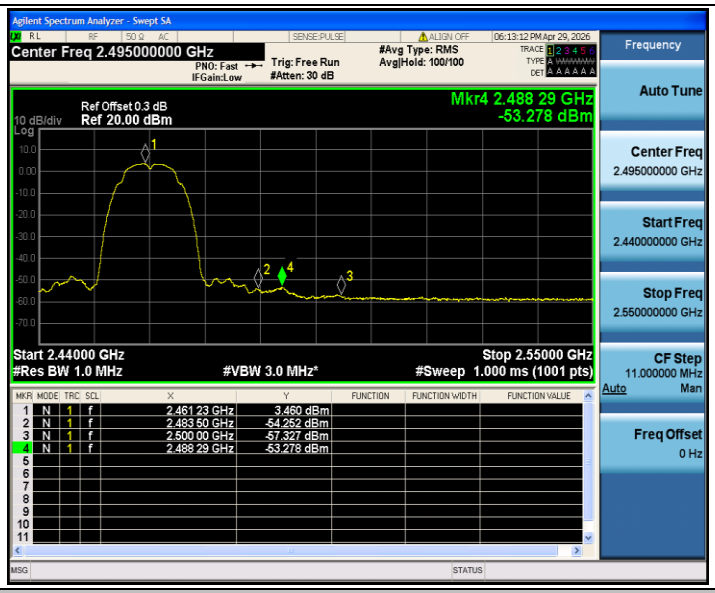

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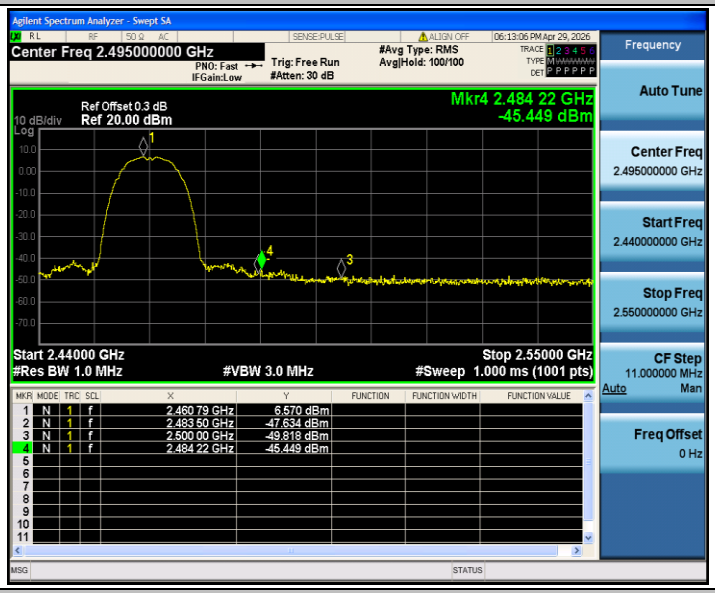

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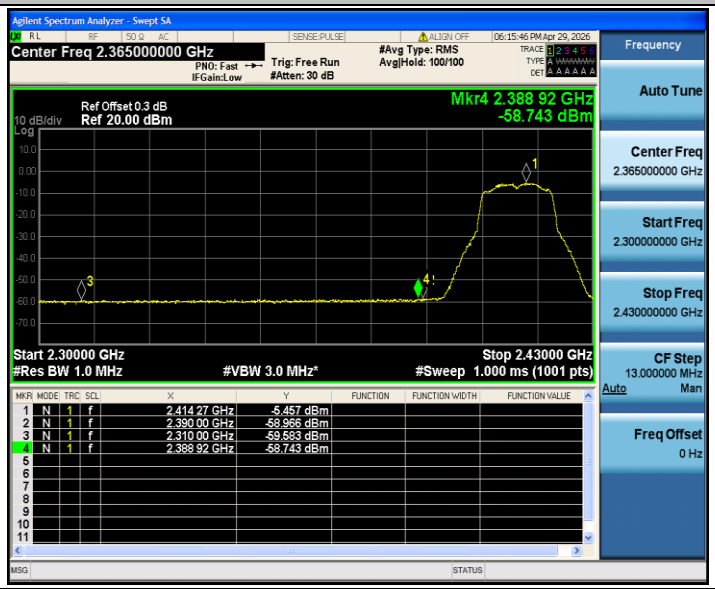

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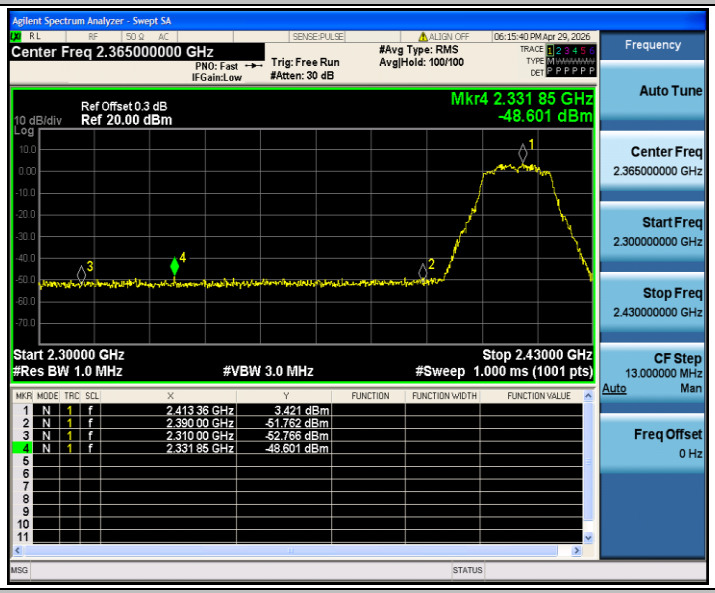
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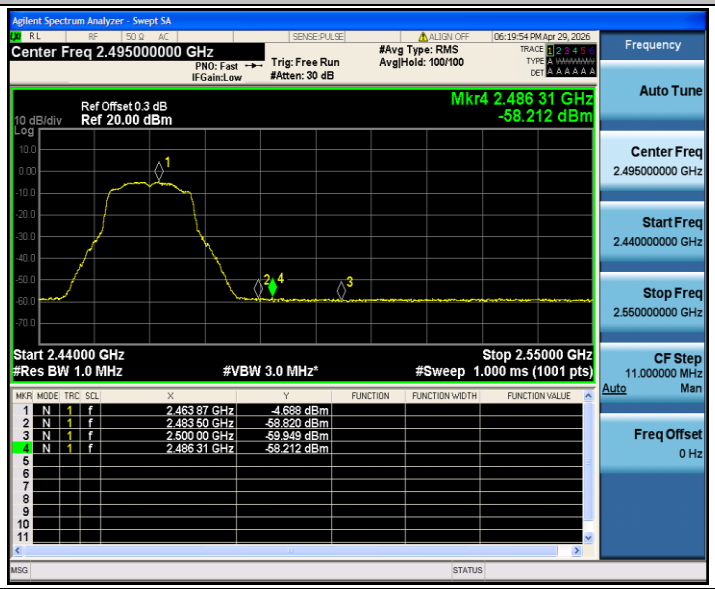
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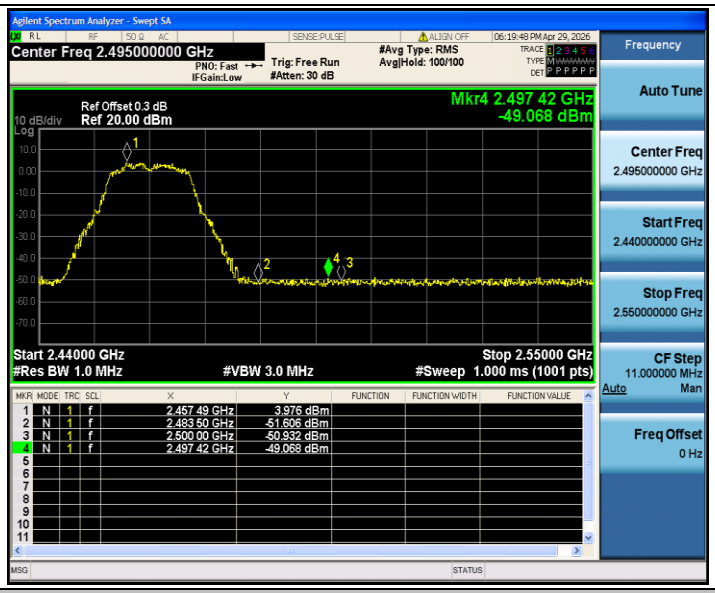

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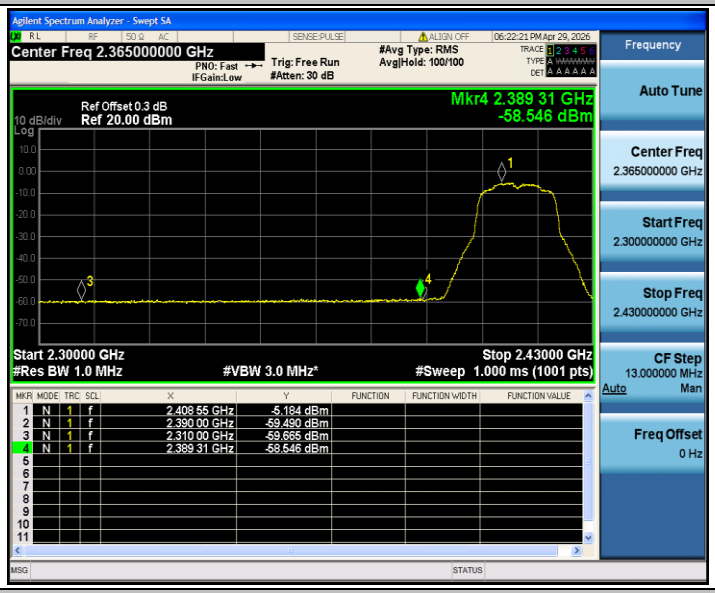

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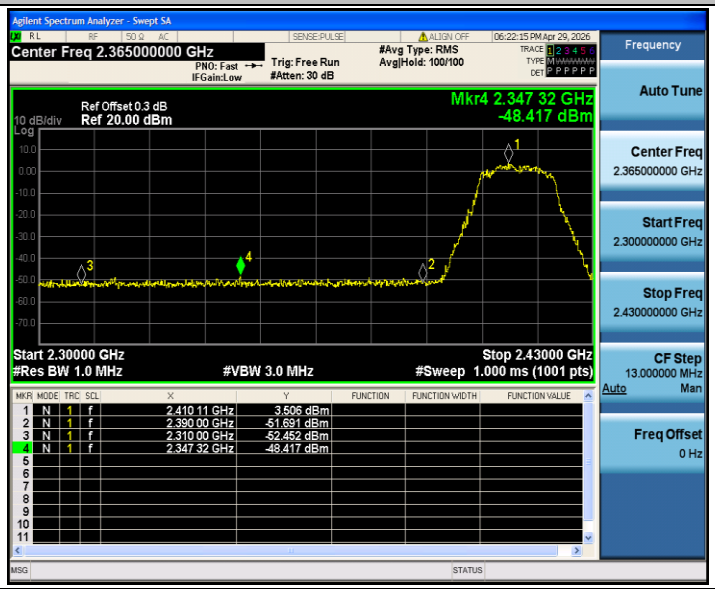
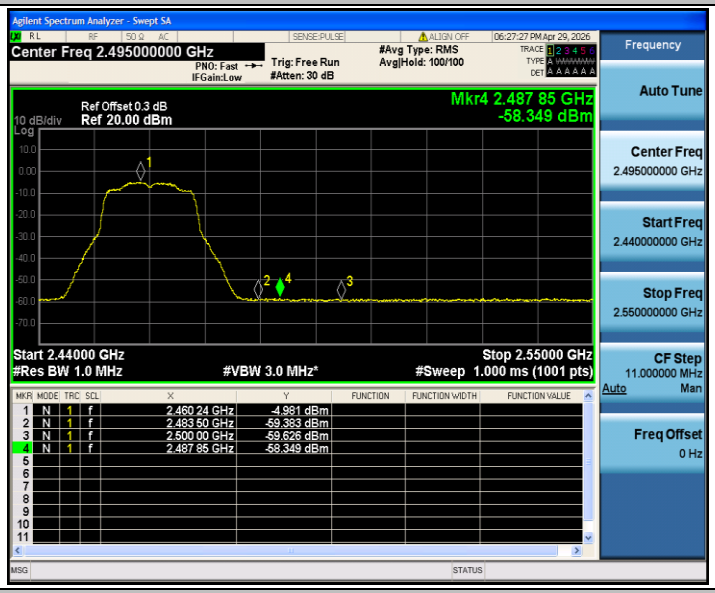
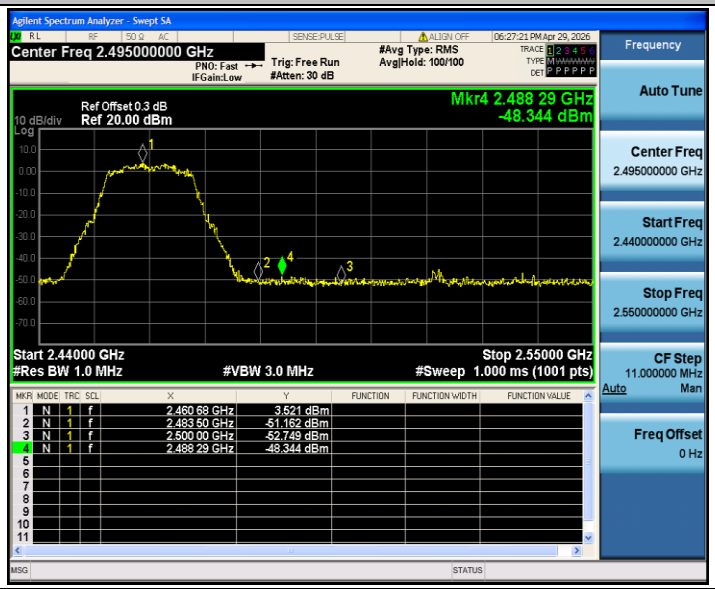
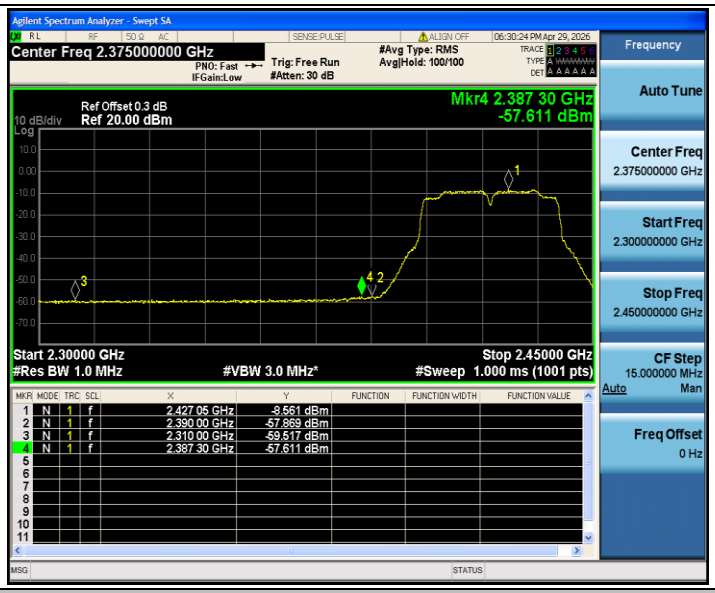
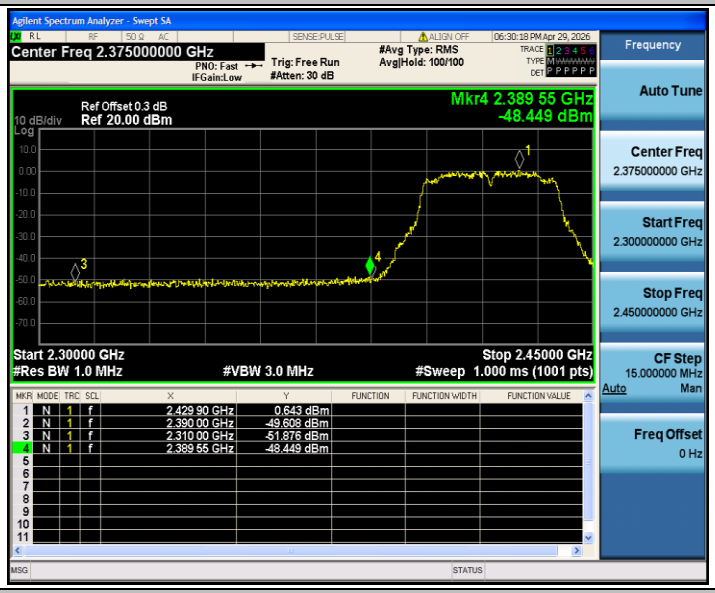


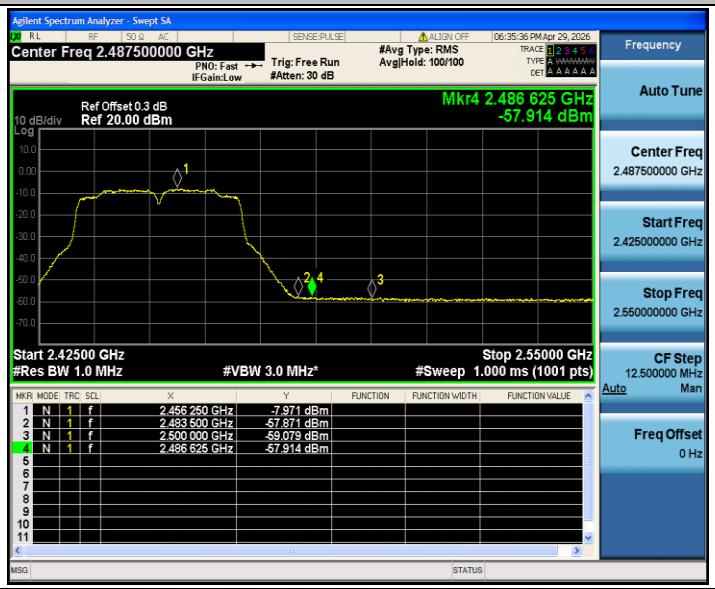
11N20SISO_Ant1_High_2462_AV

11N20SISO_Ant1_High_2462_Peak

11N40SISO_Ant1_Low_2422_AV

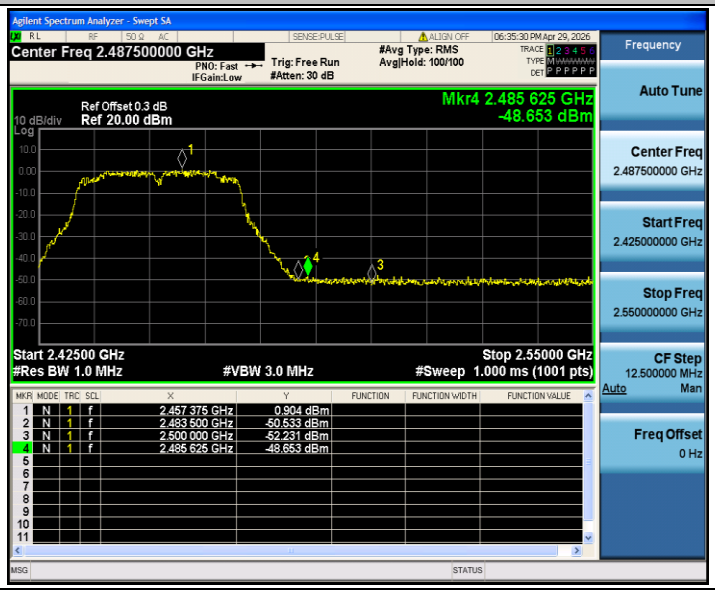


11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



11N40SISO_Ant1_High_2452_Peak


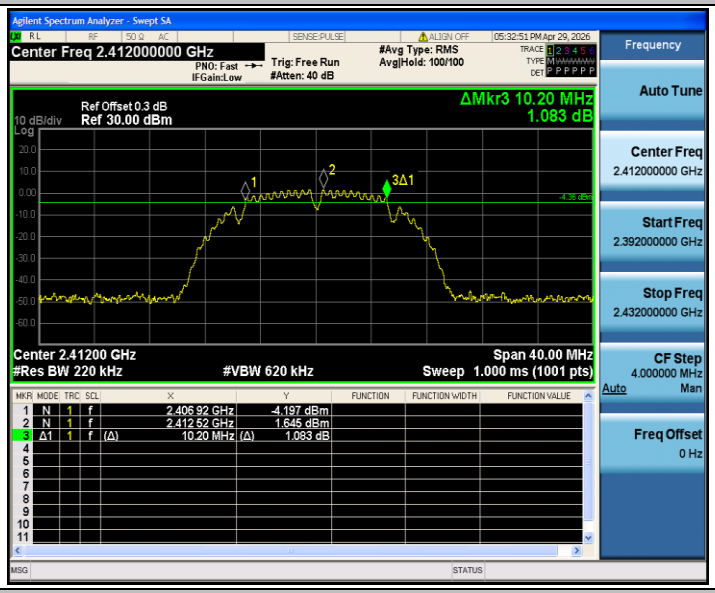
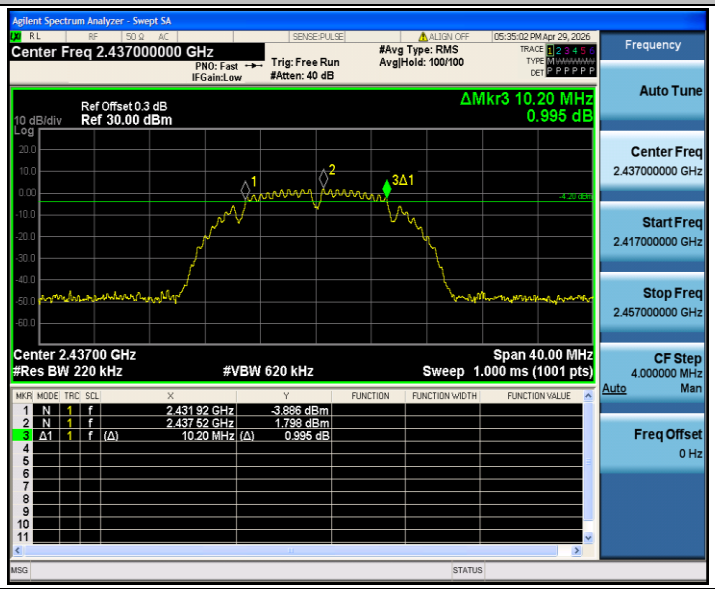
FCC Appendix RF Test Data for 2.4GWIFI Antenna 2

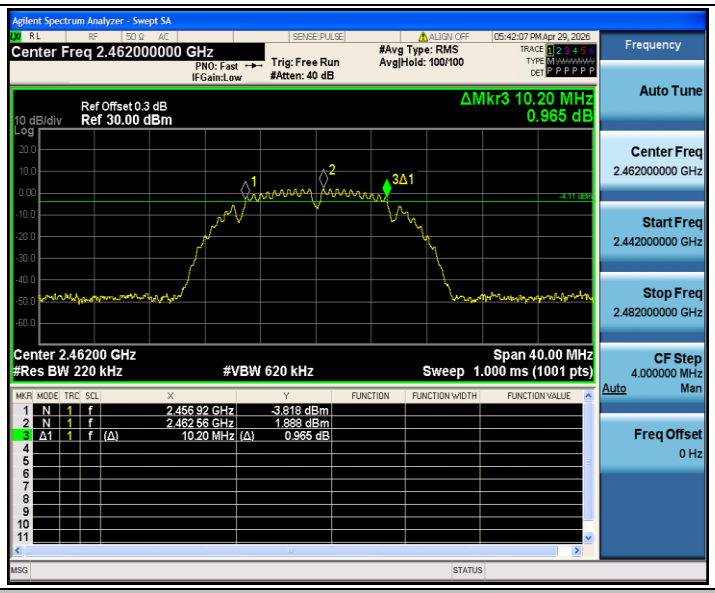
Appendix A: DTS Bandwidth

Test Result

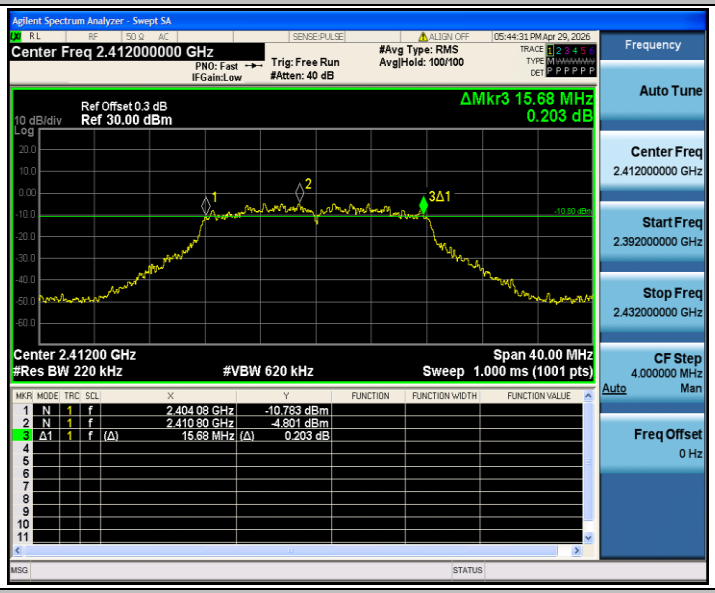
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant2	2412	15.680	2404.080	2419.760	0.5	PASS
		2437	15.720	2429.160	2444.880	0.5	PASS
		2462	15.960	2454.040	2470.000	0.5	PASS
11N20SISO	Ant2	2412	16.600	2403.960	2420.560	0.5	PASS
		2437	17.160	2428.440	2445.600	0.5	PASS
		2462	16.920	2453.600	2470.520	0.5	PASS
11N40SISO	Ant2	2422	17.200	2413.360	2430.560	0.5	PASS
		2437	17.280	2428.440	2445.720	0.5	PASS
		2452	17.360	2443.360	2460.720	0.5	PASS

Test Graphs

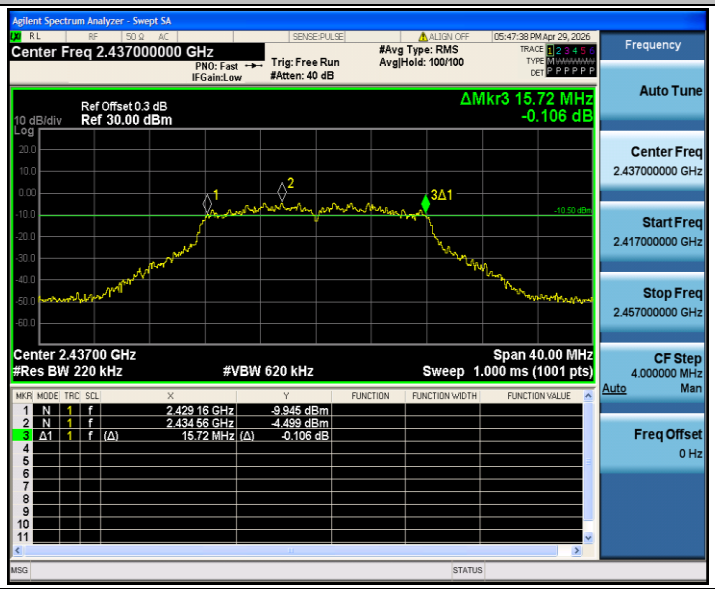
11B_Ant2_2412

11B_Ant2_2437

11B_Ant2_2462

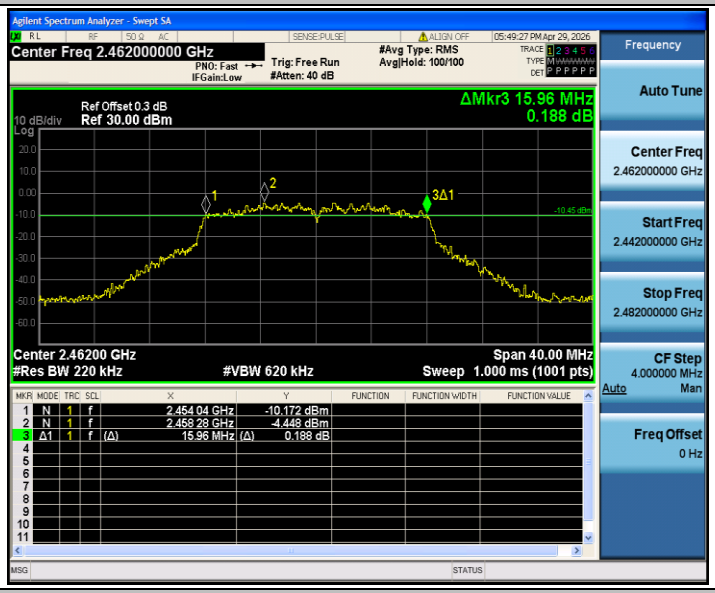


11G_Ant2_2412

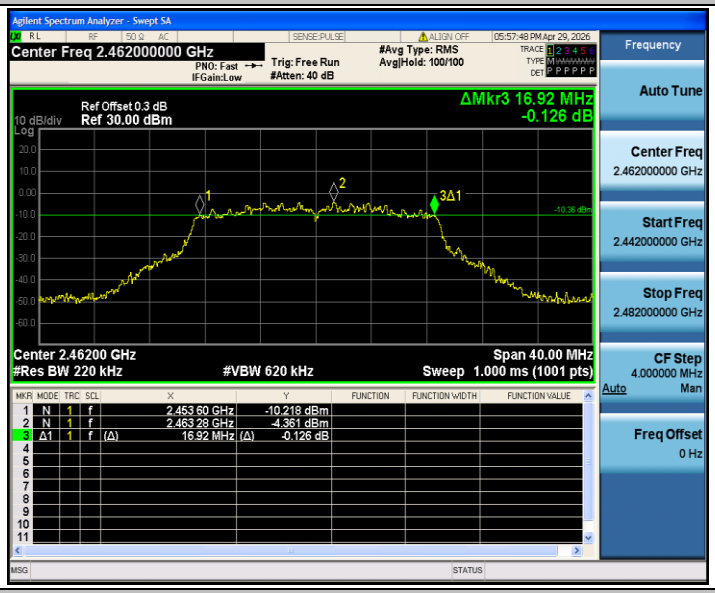


11G_Ant2_2437

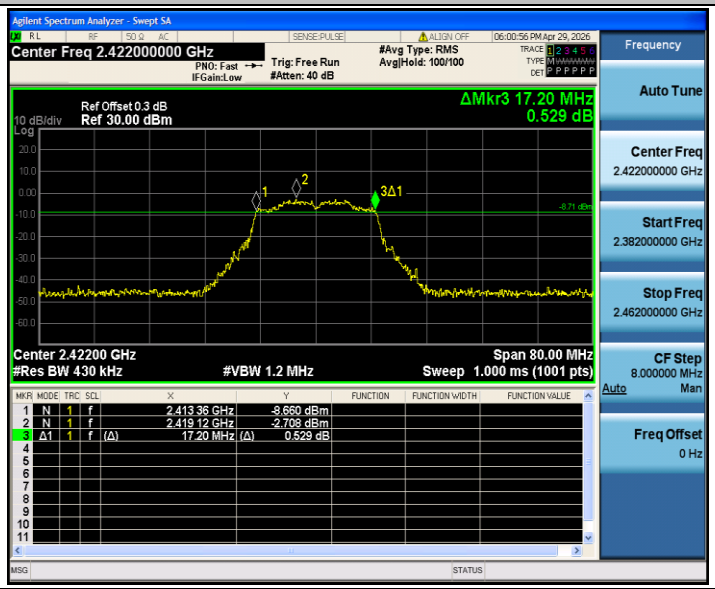


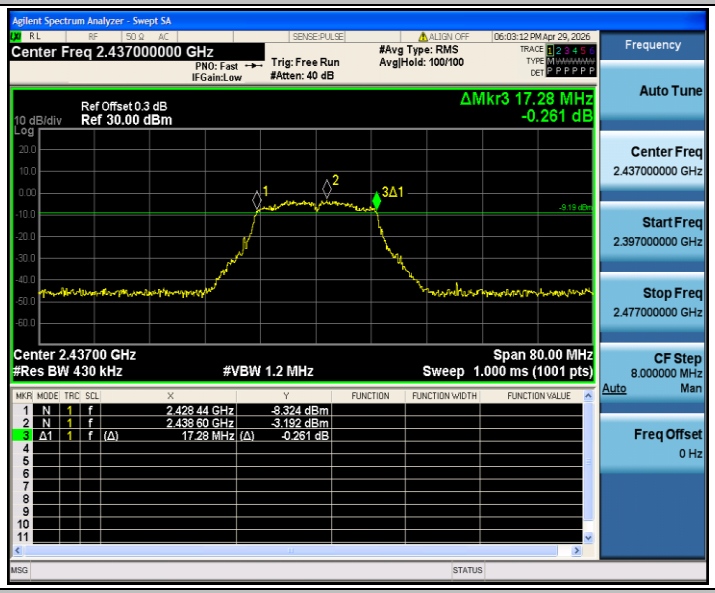
11G_Ant2_2462

11N20SISO_Ant2_2412
11N20SISO_Ant2_2437

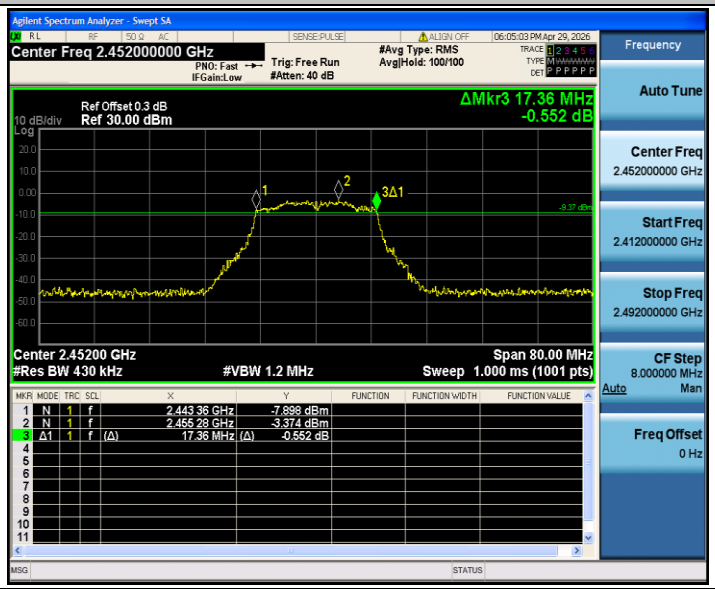
11N20SISO_Ant2_2462



11N40SISO_Ant2_2422



11N40SISO_Ant2_2437


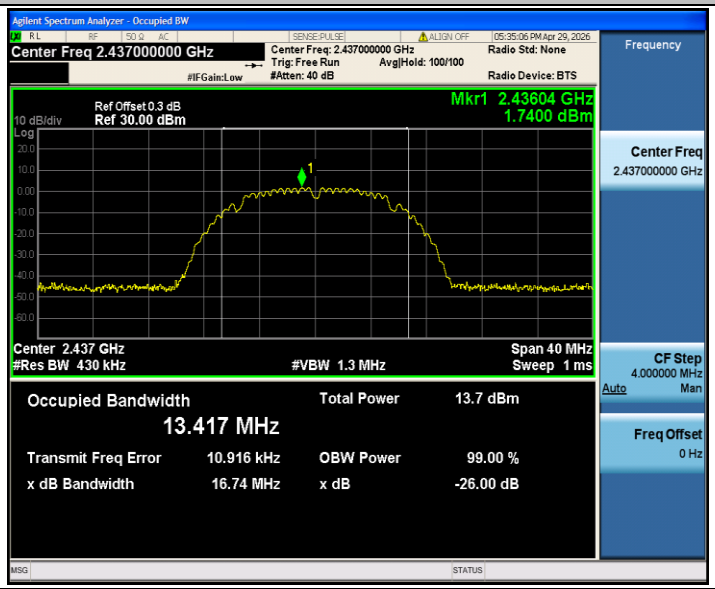
11N40SISO_Ant2_2452


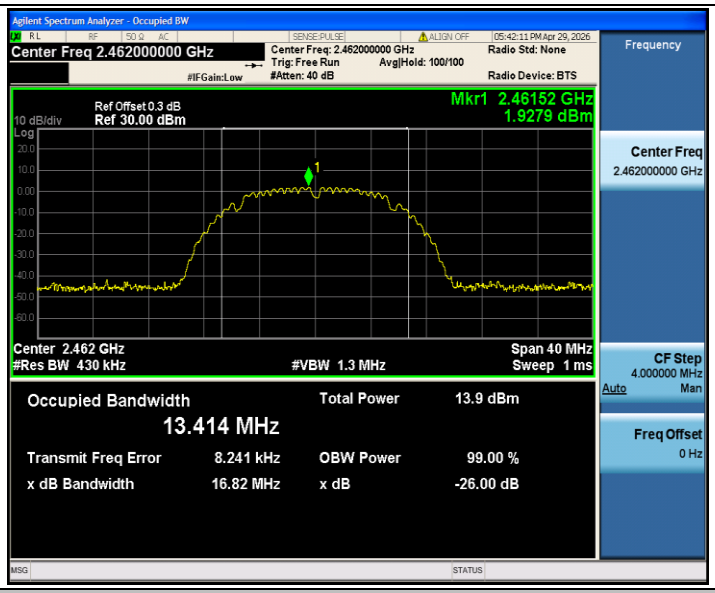
Appendix B: Occupied Channel Bandwidth

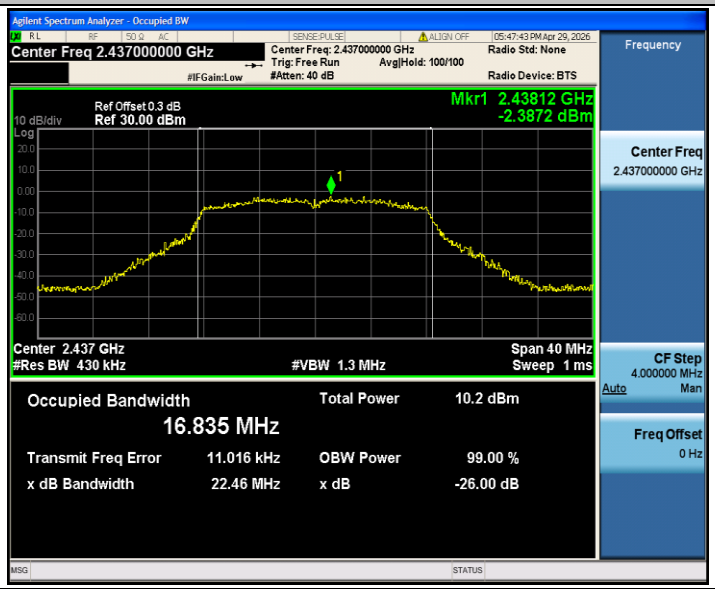
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	13.406	2405.3208	2418.7268	---	---
		2437	13.417	2430.3024	2443.7194	---	---
		2462	13.414	2455.3012	2468.7152	---	---
11G	Ant2	2412	16.840	2403.6573	2420.4973	---	---
		2437	16.835	2428.5935	2445.4285	---	---
		2462	16.904	2453.5914	2470.4954	---	---
11N20SISO	Ant2	2412	17.887	2403.0536	2420.9406	---	---
		2437	17.882	2428.1047	2445.9867	---	---
		2462	17.919	2453.0582	2470.9772	---	---
11N40SISO	Ant2	2422	18.148	2412.9603	2431.1083	---	---
		2437	18.185	2427.9191	2446.1041	---	---
		2452	18.296	2442.8964	2461.1924	---	---

Test Graphs

11B_Ant2_2412
11B_Ant2_2437

11B_Ant2_2462



11G_Ant2_2412

11G_Ant2_2437