

Case No. : <u>GTS20240100059-1-6</u>	
Ambient Condition: <u>23</u> °C, <u>48</u> %RH,	
Test Date: <u>2024.3.4</u>	Test Engineer: <u>Evan ouyang</u>

Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2407.000	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.320	2403.880	2420.200	0.5	PASS
		2437	16.440	2428.800	2445.240	0.5	PASS
		2462	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.440	2403.240	2420.680	0.5	PASS
		2437	17.480	2428.240	2445.720	0.5	PASS
		2462	17.440	2453.280	2470.720	0.5	PASS

Test Graphs

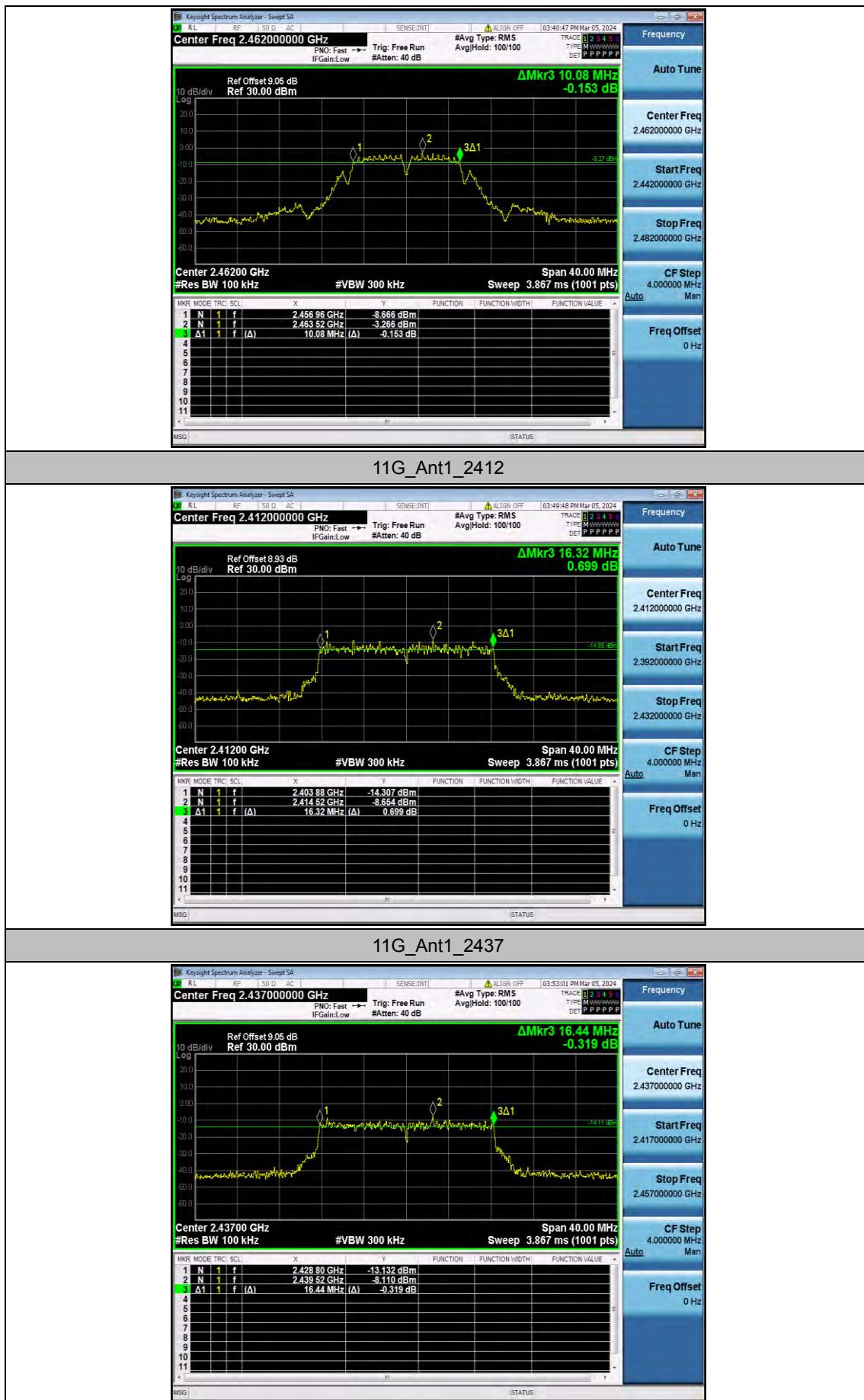
11B_Ant1_2412



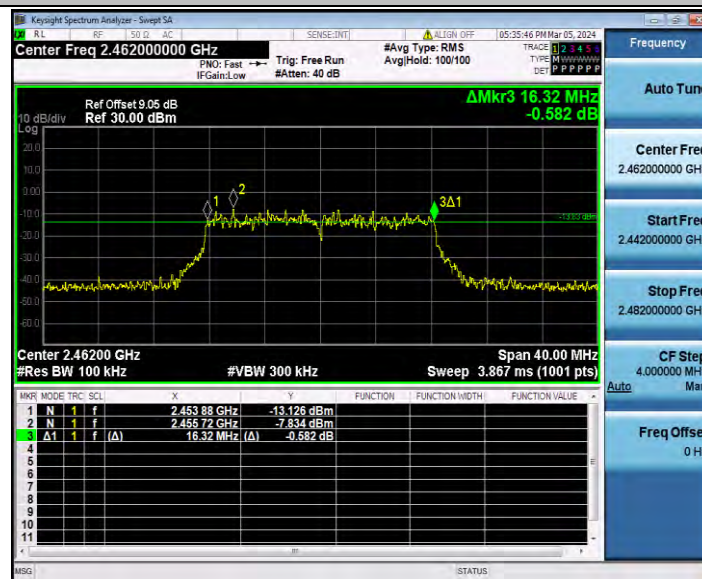
11B_Ant1_2437



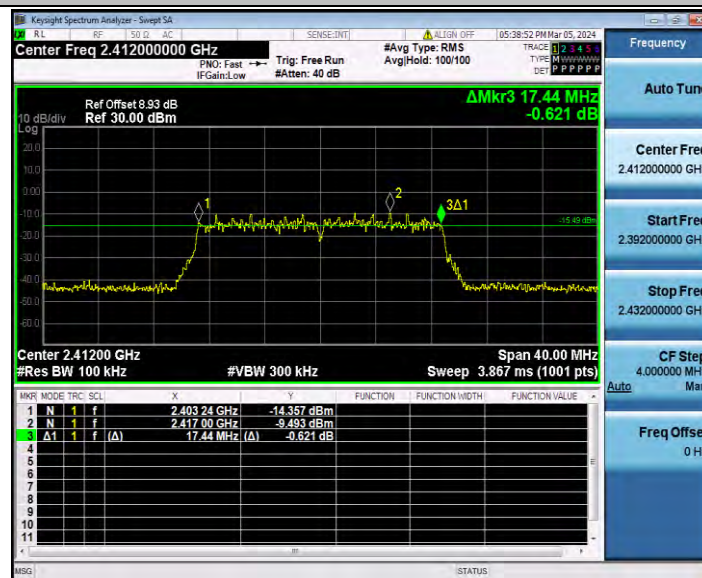
11B_Ant1_2462



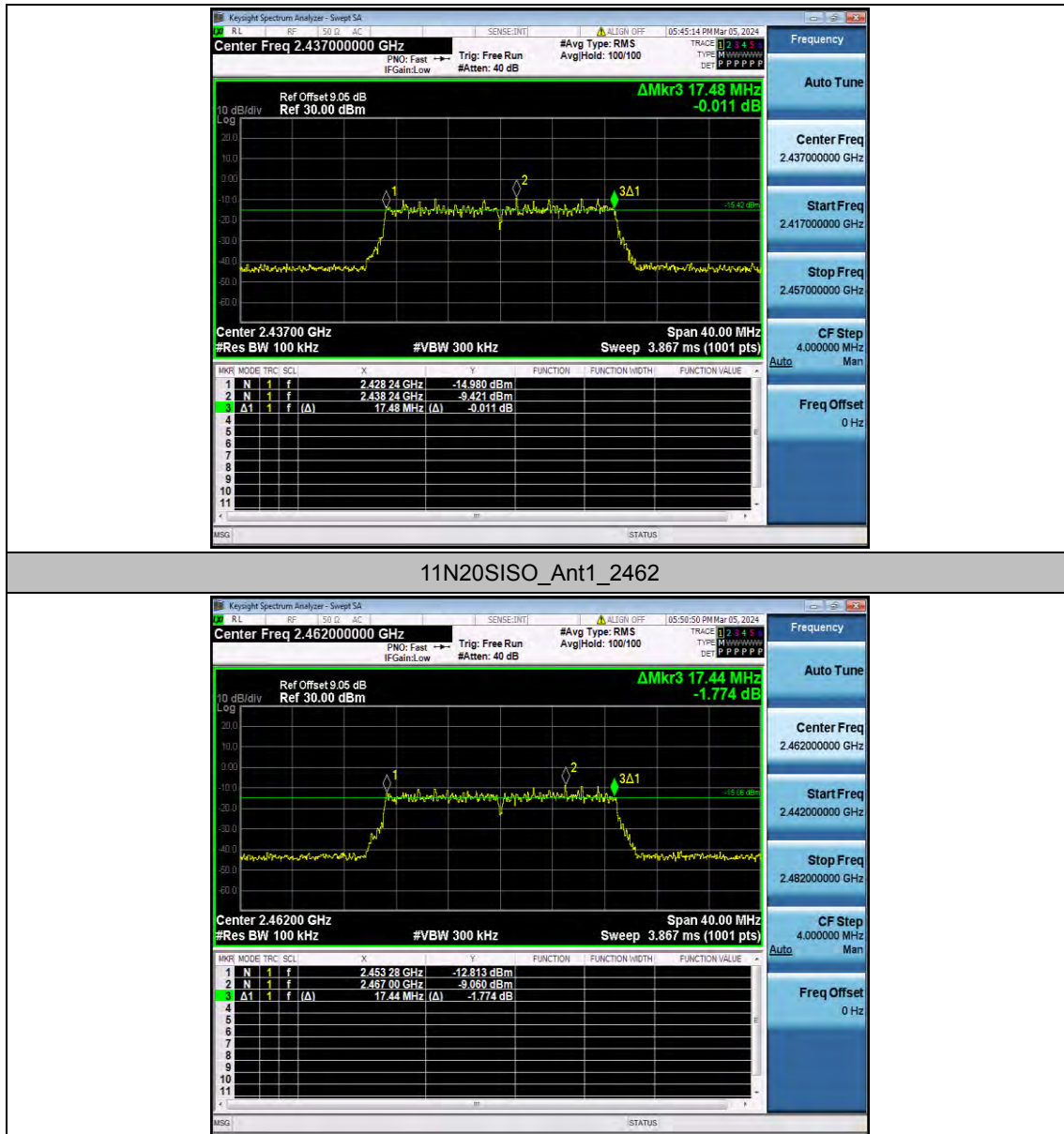
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.544	2405.7677	2418.3117	---	---
		2437	12.504	2430.7805	2443.2845	---	---
		2462	12.536	2455.7714	2468.3074	---	---
11G	Ant1	2412	16.797	2403.6511	2420.4481	---	---
		2437	16.785	2428.6158	2445.4008	---	---
		2462	16.814	2453.6309	2470.4449	---	---
11N20SISO	Ant1	2412	18.013	2403.0550	2421.0680	---	---
		2437	17.943	2428.1162	2446.0592	---	---
		2462	17.861	2453.0759	2470.9369	---	---

Test Graphs

11B_Ant1_2412



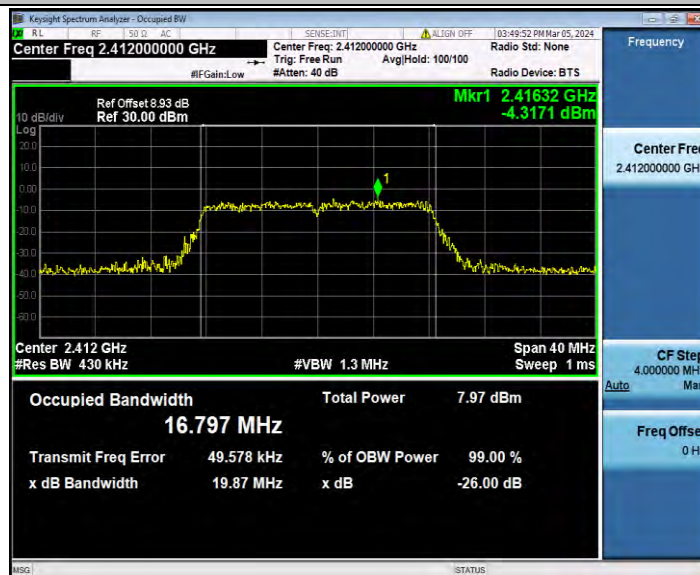
11B_Ant1_2437



11B_Ant1_2462



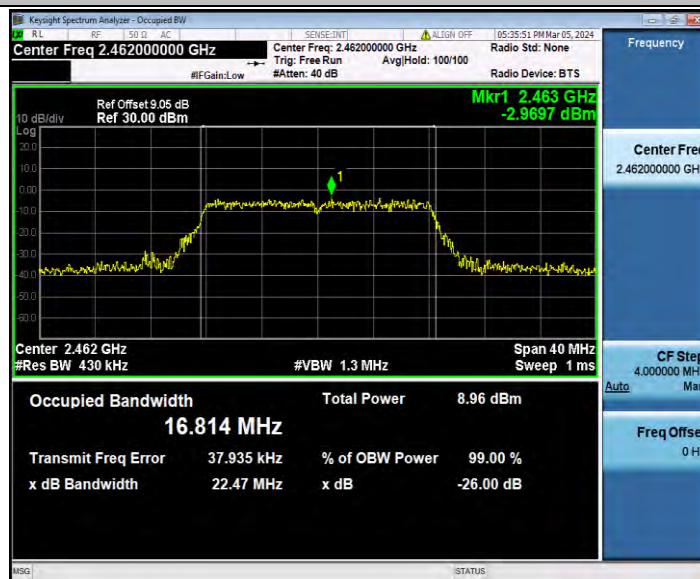
11G_Ant1_2412



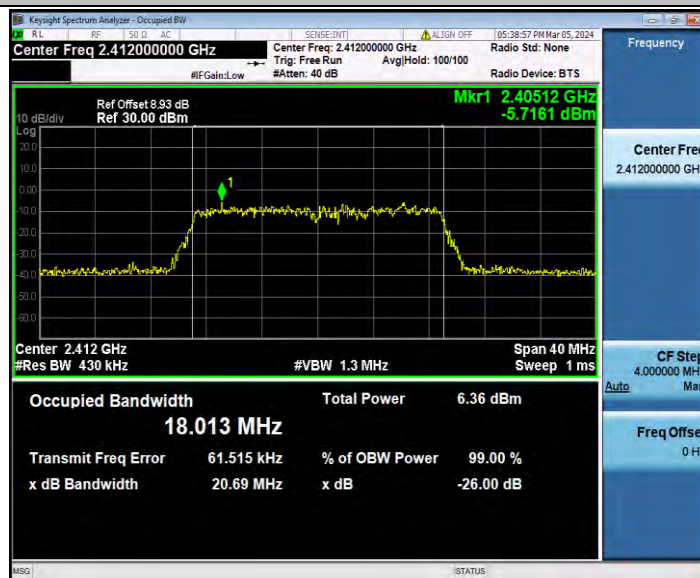
11G_Ant1_2437



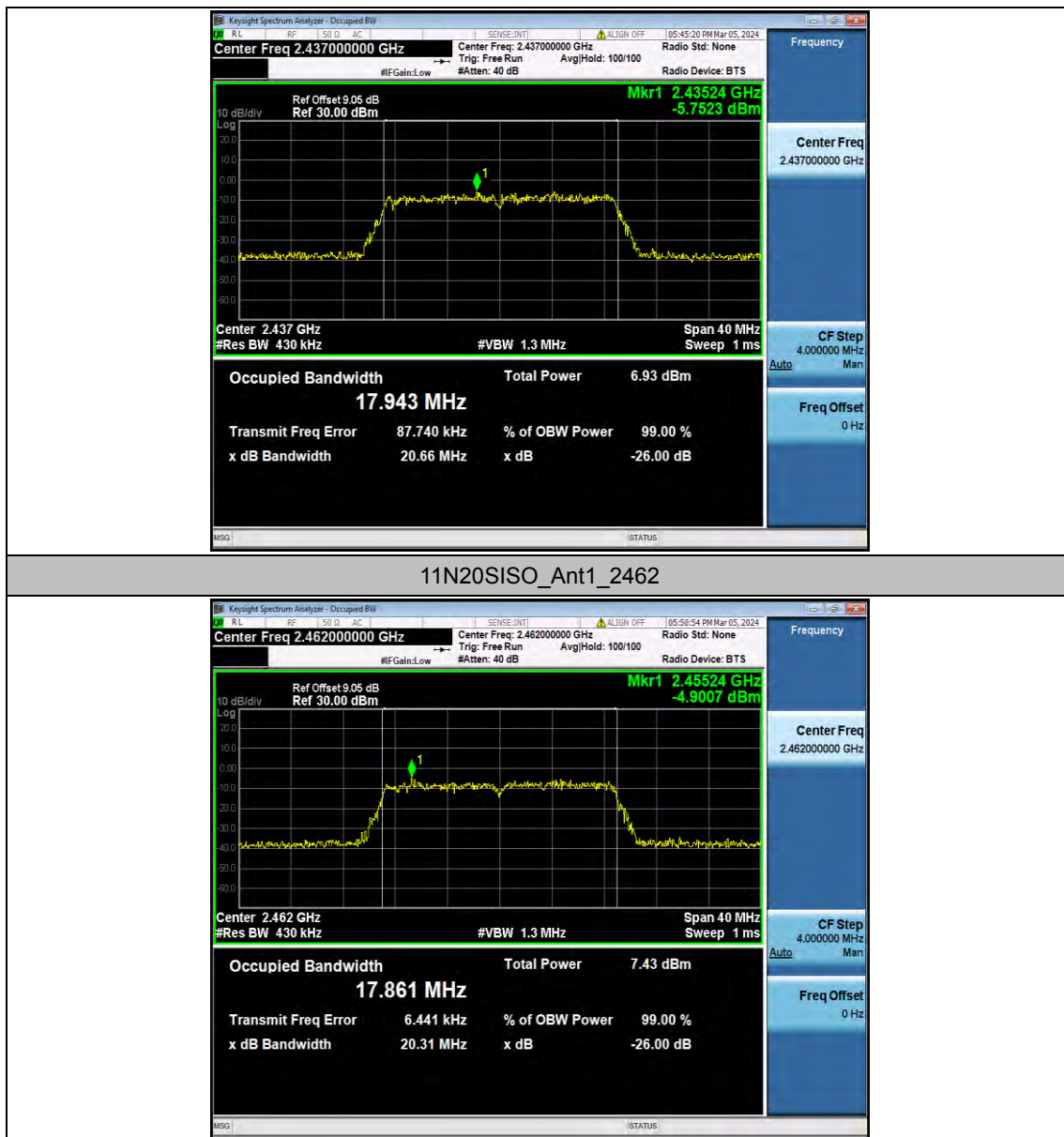
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix A.3: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	15.00	0	0	15.00	≤30.00	PASS
		2437	15.44	0	0	15.44	≤30.00	PASS
		2462	15.43	0	0	15.43	≤30.00	PASS
11G	Ant1	2412	14.80	0	0	14.80	≤30.00	PASS
		2437	15.19	0	0	15.19	≤30.00	PASS
		2462	15.99	0	0	15.99	≤30.00	PASS
11N20 SISO	Ant1	2412	15.00	0	0	15.00	≤30.00	PASS
		2437	15.01	0	0	15.01	≤30.00	PASS
		2462	15.20	0	0	15.20	≤30.00	PASS

Note:

1.The Duty Cycle Factor and RBW Factor is compensated in the data.

Appendix A.4: Maximum power spectral density

Test Result

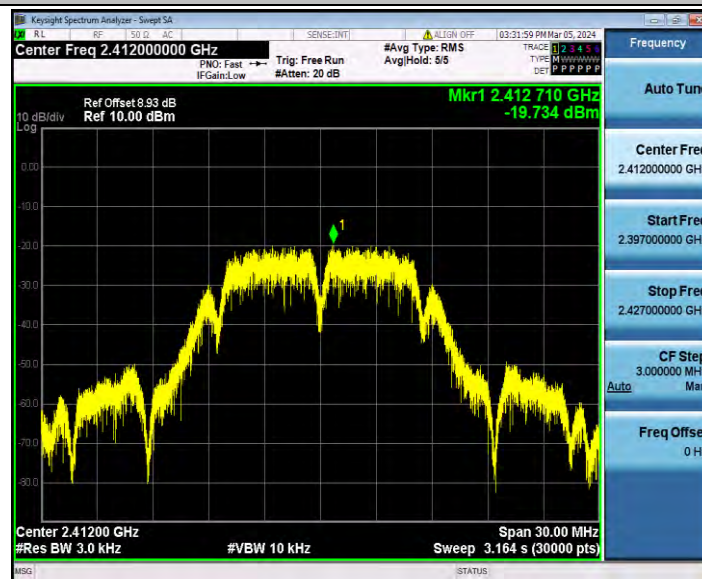
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-19.73	≤8.00	PASS
		2437	-18.11	≤8.00	PASS
		2462	-19.16	≤8.00	PASS
11G	Ant1	2412	-24.53	≤8.00	PASS
		2437	-23.80	≤8.00	PASS
		2462	-23.90	≤8.00	PASS
11N20SISO	Ant1	2412	-26.47	≤8.00	PASS
		2437	-26.19	≤8.00	PASS
		2462	-25.79	≤8.00	PASS

Note:

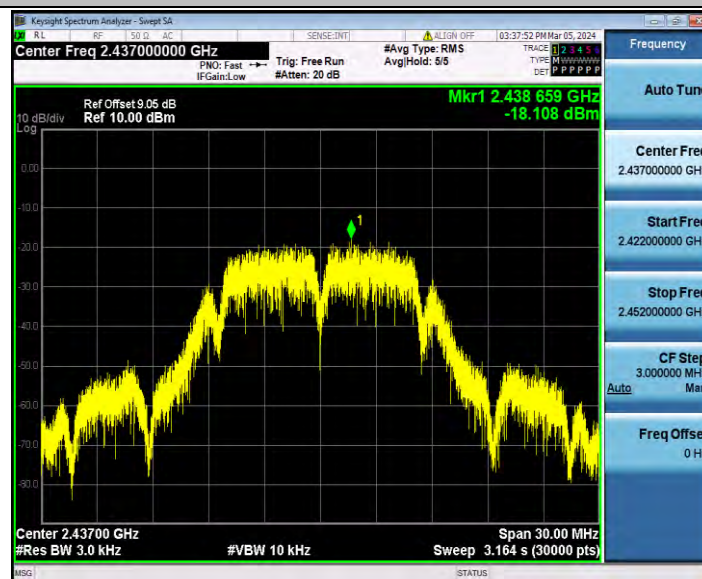
1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11B_Ant1_2412



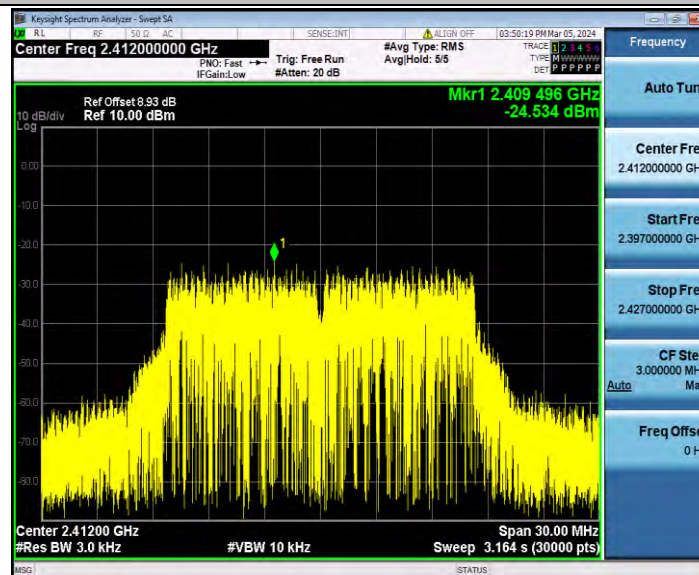
11B_Ant1_2437



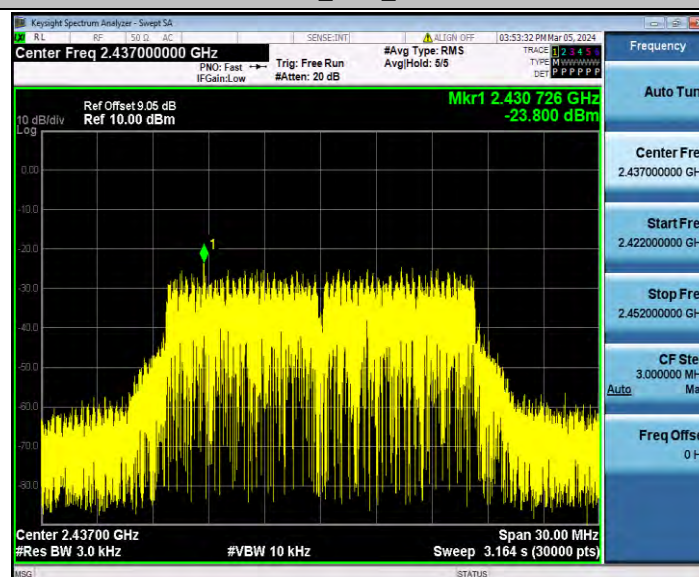
11B_Ant1_2462



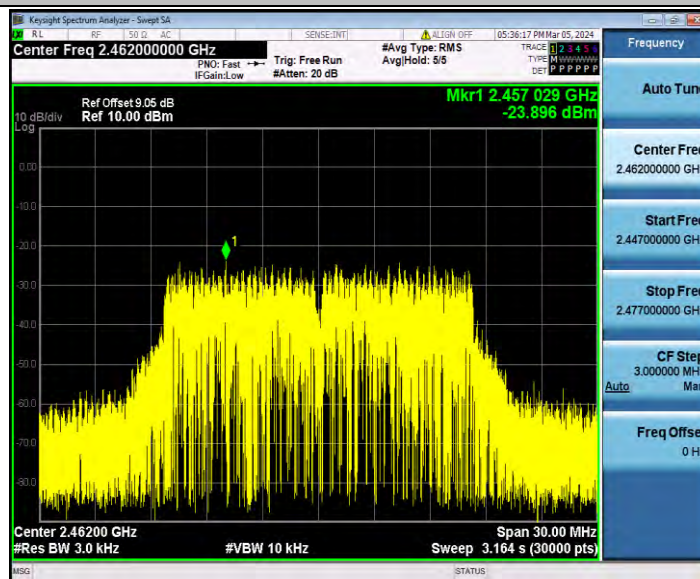
11G_Ant1_2412



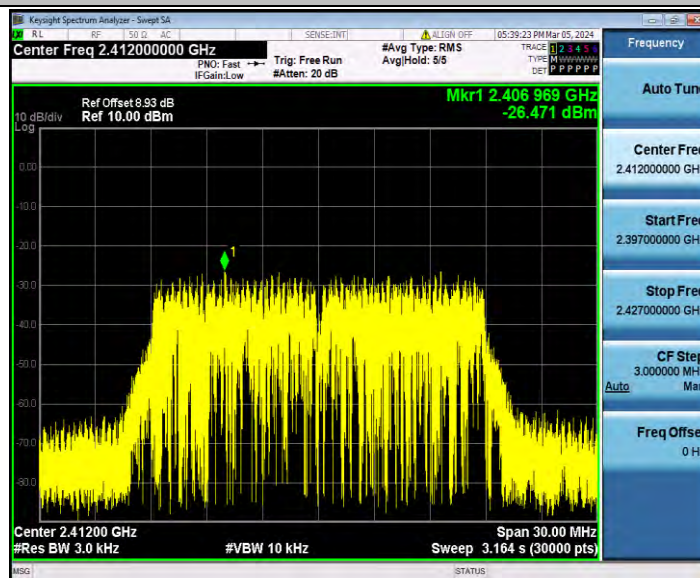
11G_Ant1_2437



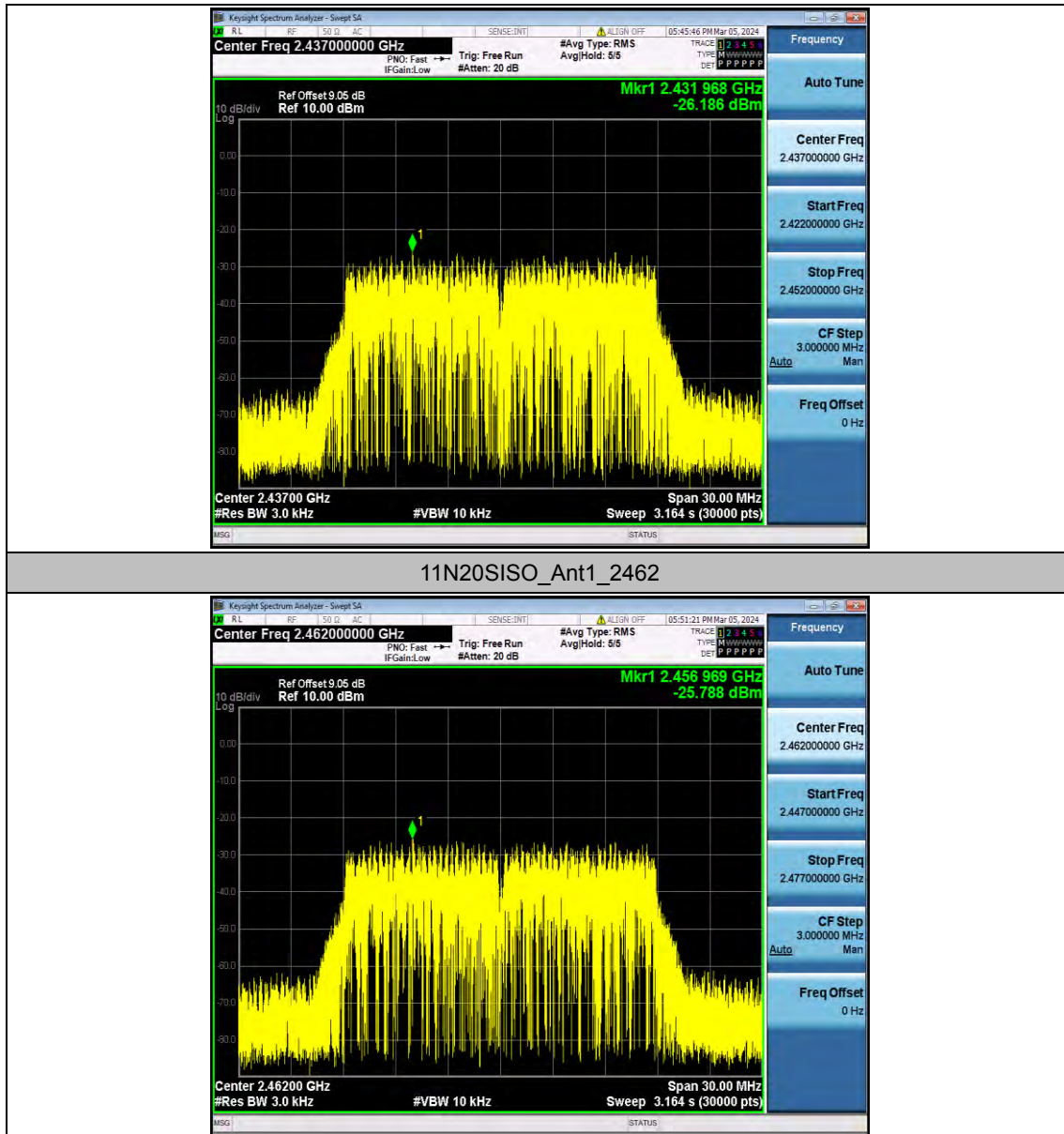
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



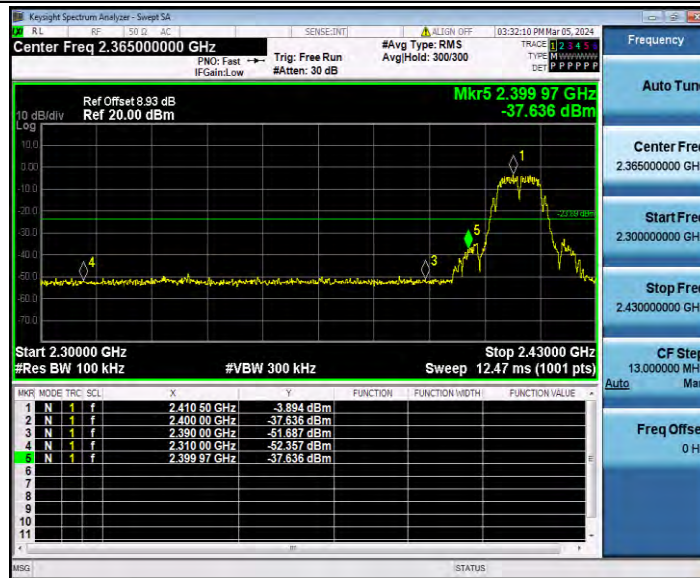
Appendix A.5: Band edge measurements

Test Result

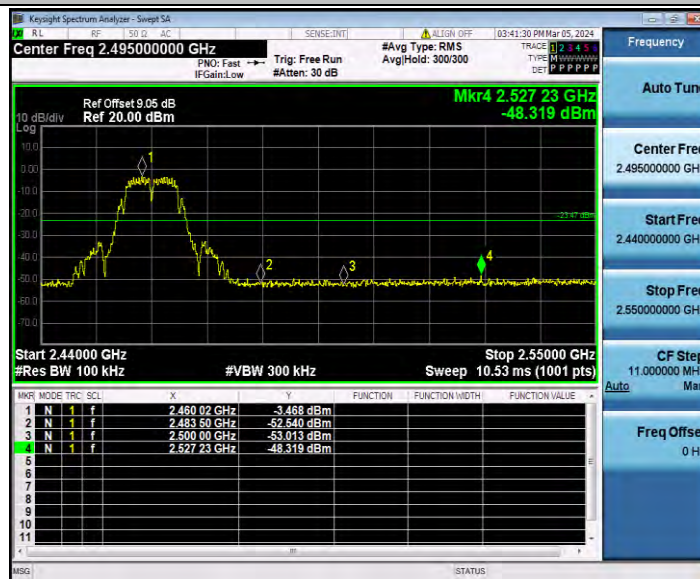
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	-3.89	-37.64	≤ -23.89	PASS
		High	2462	-3.47	-48.32	≤ -23.47	PASS
11G	Ant1	Low	2412	-8.38	-39.86	≤ -28.38	PASS
		High	2462	-7.32	-49.02	≤ -27.32	PASS
11N20 SISO	Ant1	Low	2412	-9.56	-44.63	≤ -29.56	PASS
		High	2462	-8.70	-49.05	≤ -28.7	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

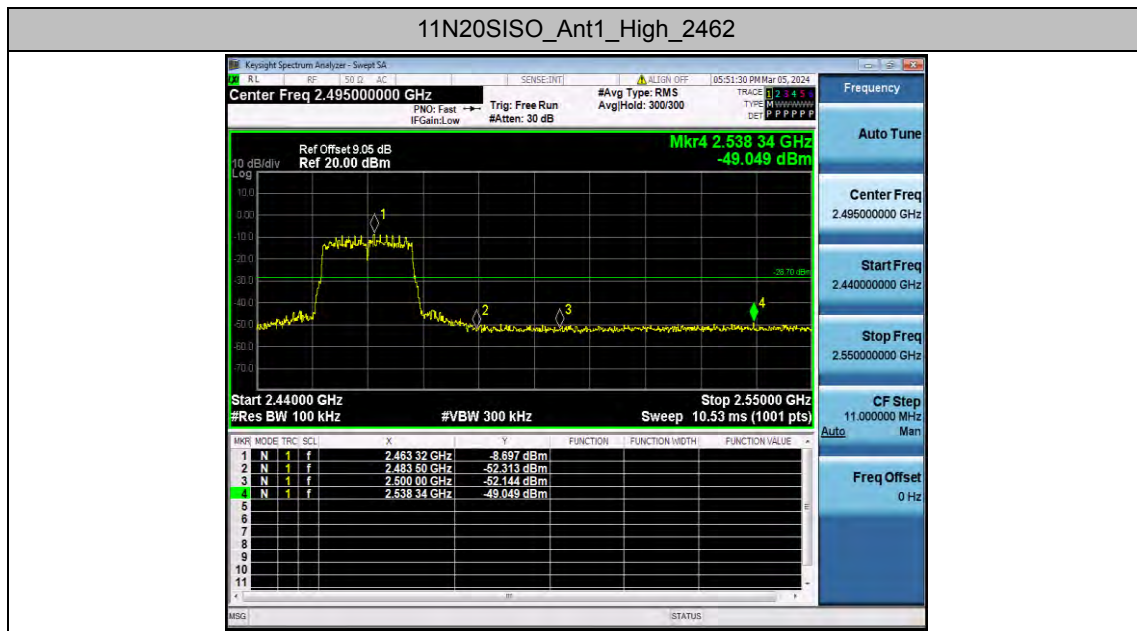


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



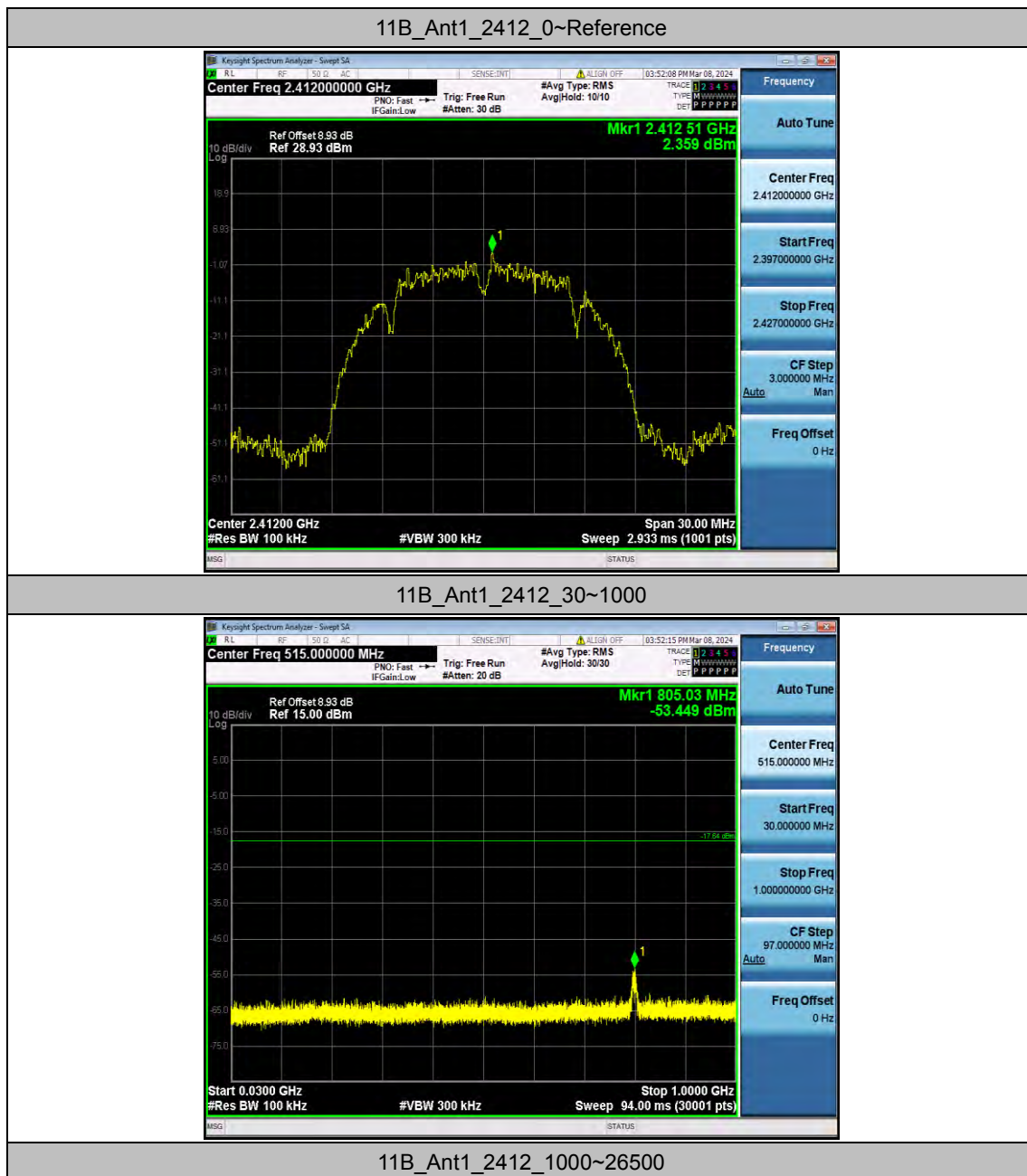


Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.36	2.36	---	PASS
			30~1000	2.36	-53.45	≤ -17.64	PASS
			1000~26500	2.36	-47.88	≤ -17.64	PASS
		2437	Reference	-5.14	-5.14	---	PASS
			30~1000	-5.14	-56.91	≤ -25.14	PASS
			1000~26500	-5.14	-45.82	≤ -25.14	PASS
		2462	Reference	-4.68	-4.68	---	PASS
			30~1000	-4.68	-60.9	≤ -24.68	PASS
			1000~26500	-4.68	-41.55	≤ -24.68	PASS
11G	Ant1	2412	Reference	0.48	0.48	---	PASS
			30~1000	0.48	-60.11	≤ -19.52	PASS
			1000~26500	0.48	-47.42	≤ -19.52	PASS
		2437	Reference	3.44	3.44	---	PASS
			30~1000	3.44	-43.02	≤ -16.56	PASS
			1000~26500	3.44	-47.93	≤ -16.56	PASS
		2462	Reference	3.05	3.05	---	PASS
			30~1000	3.05	-60.82	≤ -16.95	PASS
			1000~26500	3.05	-48.11	≤ -16.95	PASS
11N20SISO	Ant1	2412	Reference	3.06	3.06	---	PASS
			30~1000	3.06	-60.54	≤ -16.94	PASS
			1000~26500	3.06	-47.95	≤ -16.94	PASS
		2437	Reference	3.64	3.64	---	PASS
			30~1000	3.64	-60.6	≤ -16.36	PASS
			1000~26500	3.64	-47.3	≤ -16.36	PASS
		2462	Reference	2.01	2.01	---	PASS
			30~1000	2.01	-49.05	≤ -17.99	PASS
			1000~26500	2.01	-47.67	≤ -17.99	PASS

Test Graphs





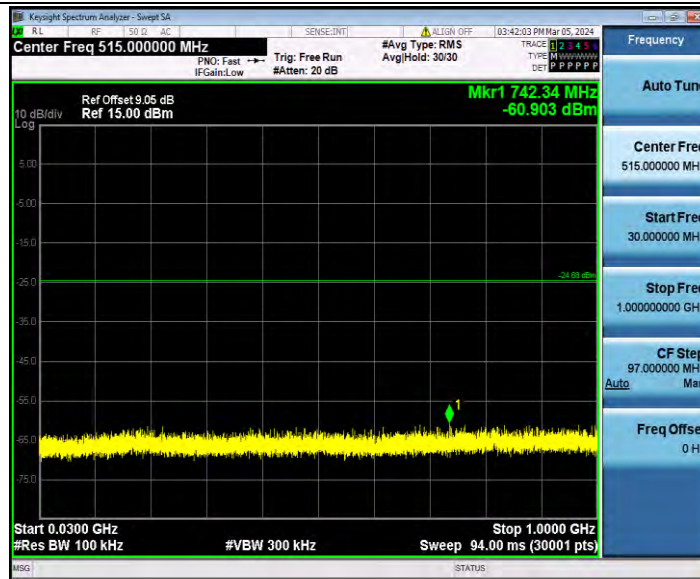
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



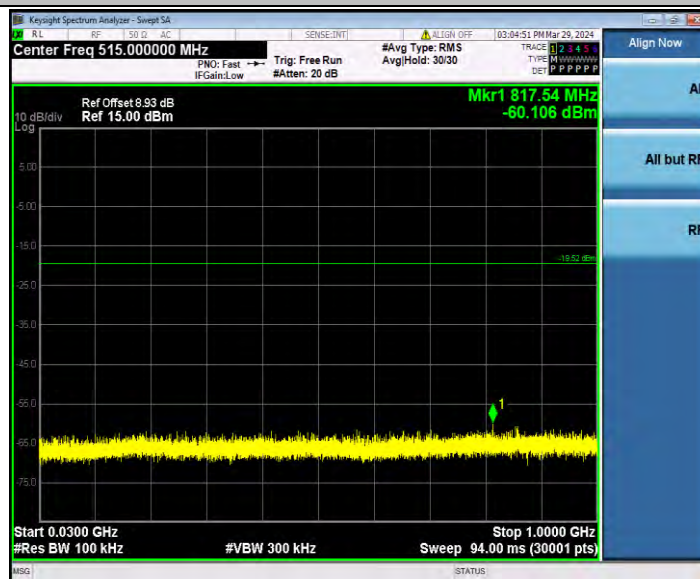
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



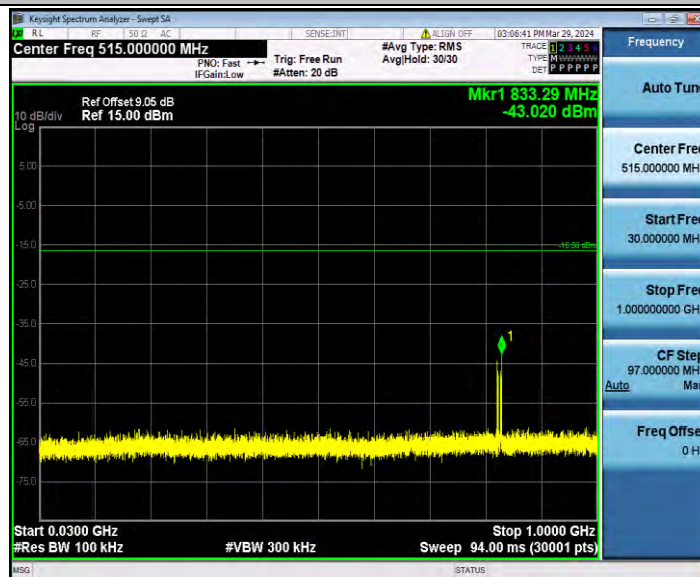
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



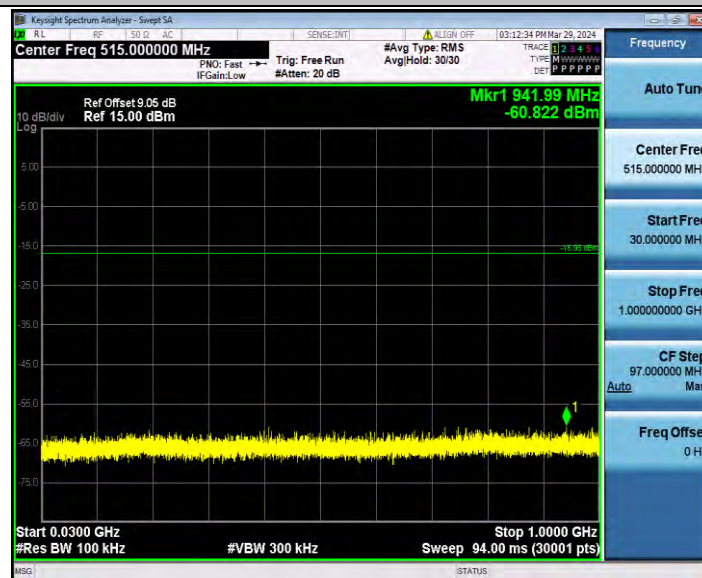
11G_Ant1_2437_1000~26500



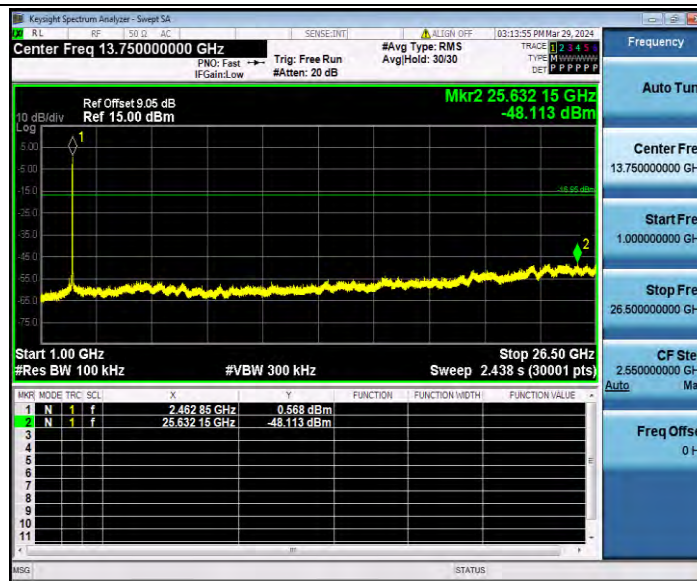
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



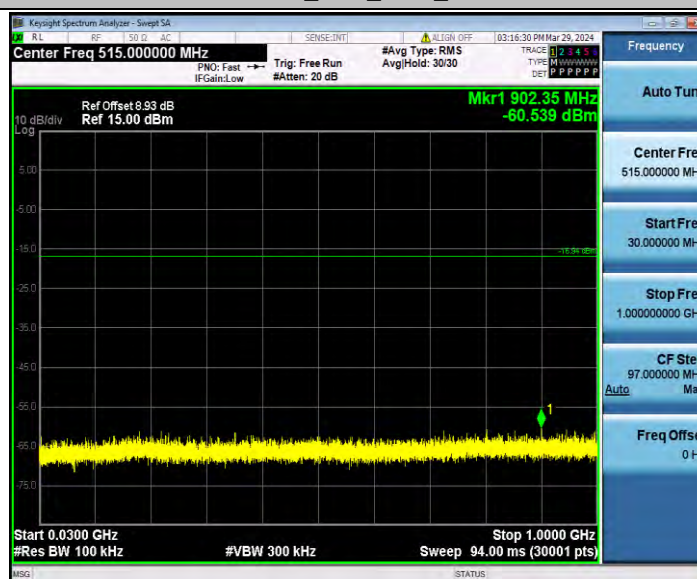
11G_Ant1_2462_1000~26500



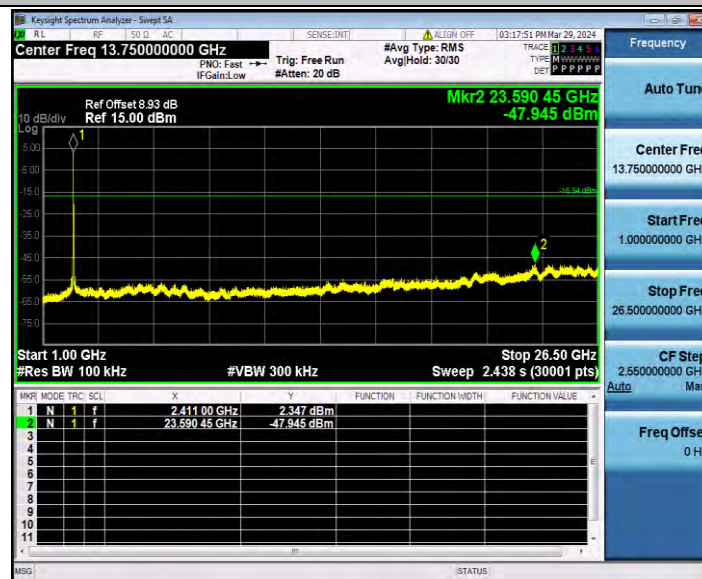
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



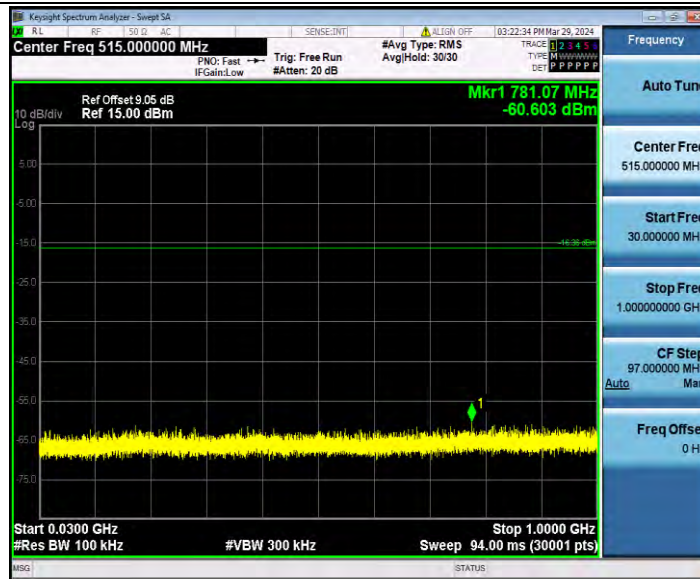
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



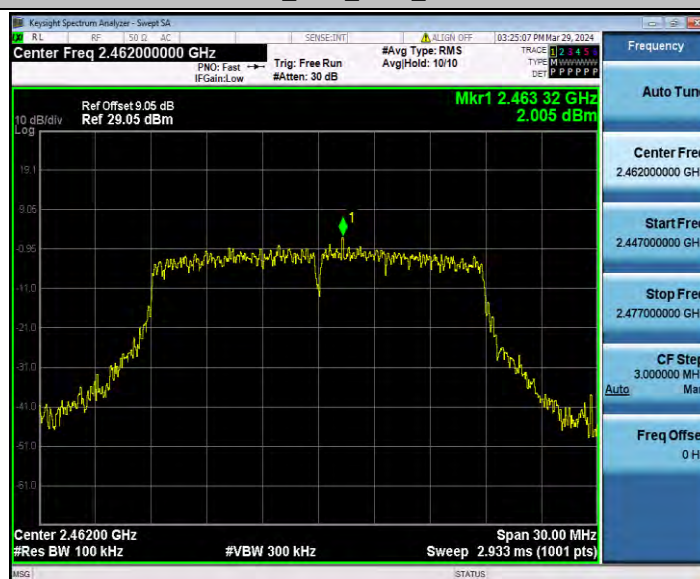
11N20SISO_Ant1_2437_30~1000



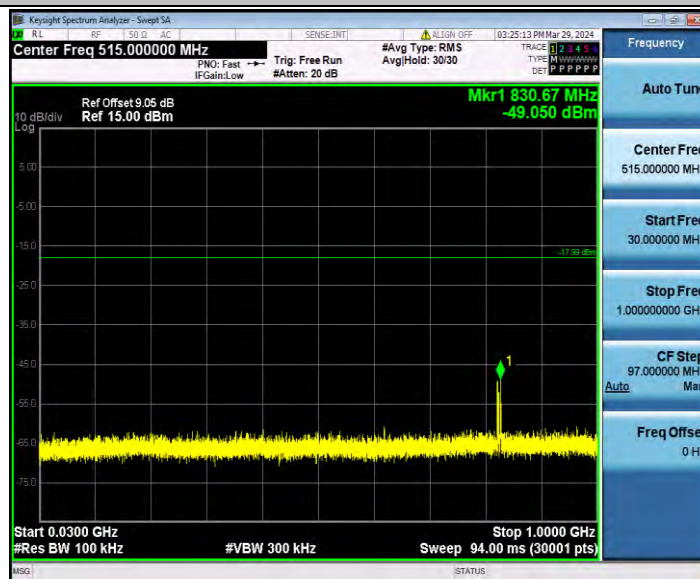
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



Appendix A.7: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.62	≤-41.20	45.58	≤54	PASS
				AV	2330.550	-48.49	≤-41.20	46.71	≤54	PASS
				AV	2390.000	-49.04	≤-41.20	46.16	≤54	PASS
				Peak	2310.000	-48.81	≤-21.20	46.39	≤74	PASS
				Peak	2368.380	-38.98	≤-21.20	56.22	≤74	PASS
				Peak	2390.000	-45.03	≤-21.20	50.17	≤74	PASS
		High	2462	AV	2483.500	-48.71	≤-41.20	46.49	≤54	PASS
				AV	2483.560	-48.76	≤-41.20	46.44	≤54	PASS
				AV	2500.000	-48.84	≤-41.20	46.36	≤54	PASS
				Peak	2483.500	-44.52	≤-21.20	50.68	≤74	PASS
				Peak	2494.670	-41.12	≤-21.20	54.08	≤74	PASS
				Peak	2500.000	-48.1	≤-21.20	47.10	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.28	≤-41.20	45.92	≤54	PASS
				AV	2389.960	-44.46	≤-41.20	50.74	≤54	PASS
				AV	2390.000	-44.46	≤-41.20	50.74	≤54	PASS
				Peak	2310.000	-45.63	≤-21.20	49.57	≤74	PASS
				Peak	2388.010	-39.51	≤-21.20	55.69	≤74	PASS
				Peak	2390.000	-41.55	≤-21.20	53.65	≤74	PASS
		High	2462	AV	2483.500	-44.3	≤-41.20	50.90	≤54	PASS
				AV	2483.560	-44.5	≤-41.20	50.70	≤54	PASS
				AV	2500.000	-48.26	≤-41.20	46.94	≤54	PASS
				Peak	2483.500	-39.22	≤-21.20	55.98	≤74	PASS
				Peak	2484.220	-39.07	≤-21.20	56.13	≤74	PASS
				Peak	2500.000	-42.68	≤-21.20	52.52	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-49.33	≤-41.20	45.87	≤54	PASS
				AV	2389.960	-43.79	≤-41.20	51.41	≤54	PASS
				AV	2390.000	-43.79	≤-41.20	51.41	≤54	PASS
				Peak	2310.000	-46.27	≤-21.20	48.93	≤74	PASS
				Peak	2389.180	-36.69	≤-21.20	58.51	≤74	PASS
				Peak	2390.000	-40.11	≤-21.20	55.09	≤74	PASS
		High	2462	AV	2483.500	-43.68	≤-41.20	51.52	≤54	PASS
				AV	2483.560	-43.84	≤-41.20	51.36	≤54	PASS
				AV	2500.000	-48.33	≤-41.20	46.87	≤54	PASS
				Peak	2483.500	-37.17	≤-21.20	58.03	≤74	PASS
				Peak	2483.890	-34.24	≤-21.20	60.96	≤74	PASS

				Peak	2500.000	-45.36	≤ -21.20	49.84	≤ 74	PASS
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Note:

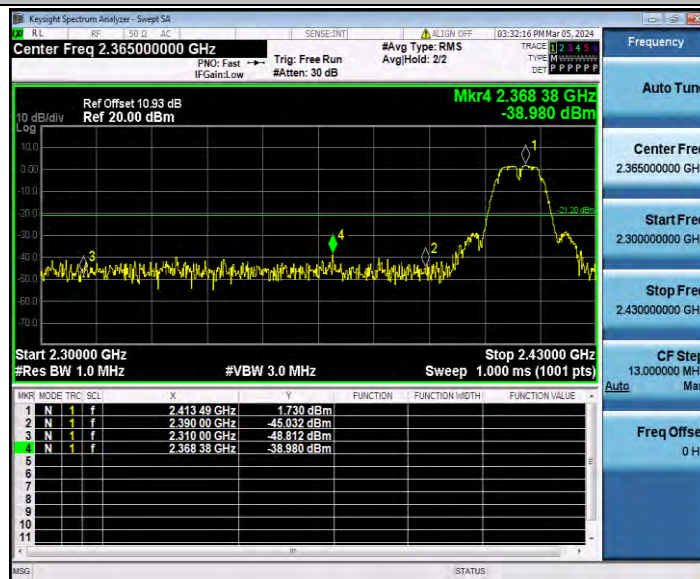
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

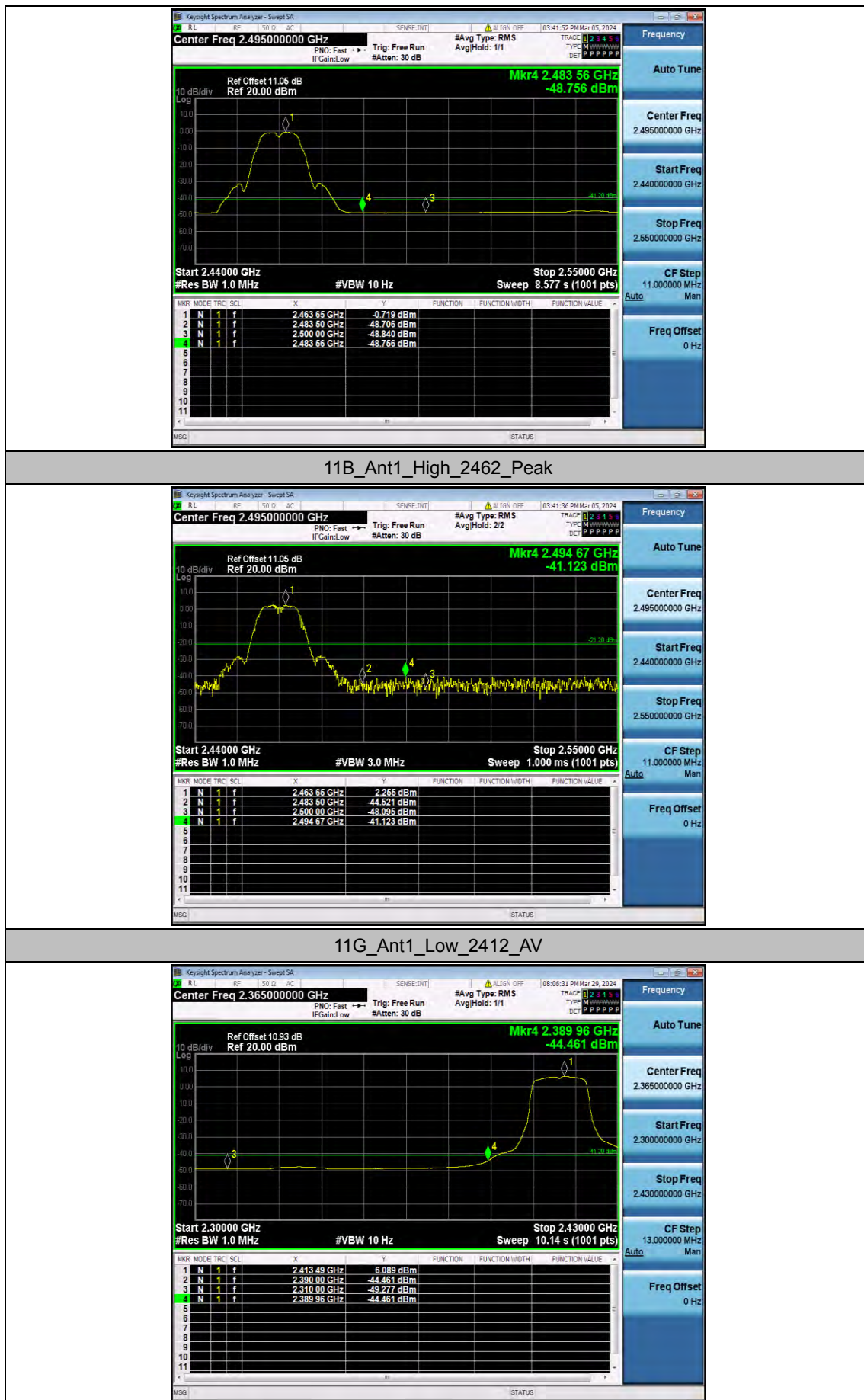
11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



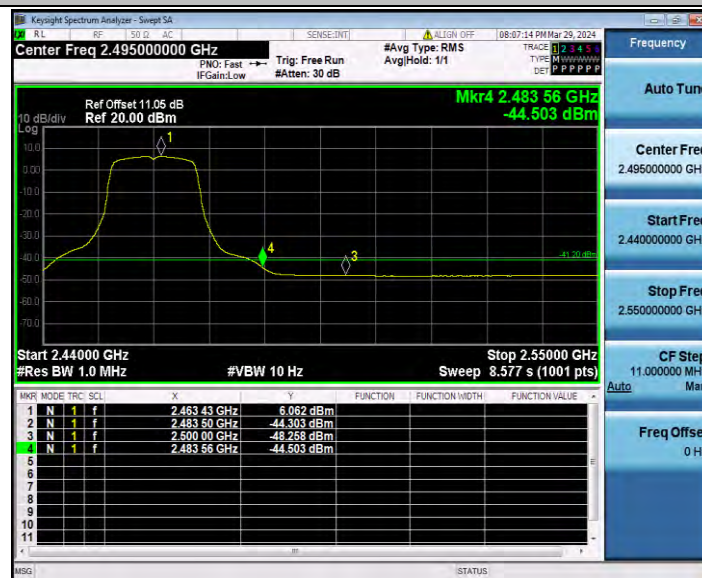
11B_Ant1_High_2462_AV



11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



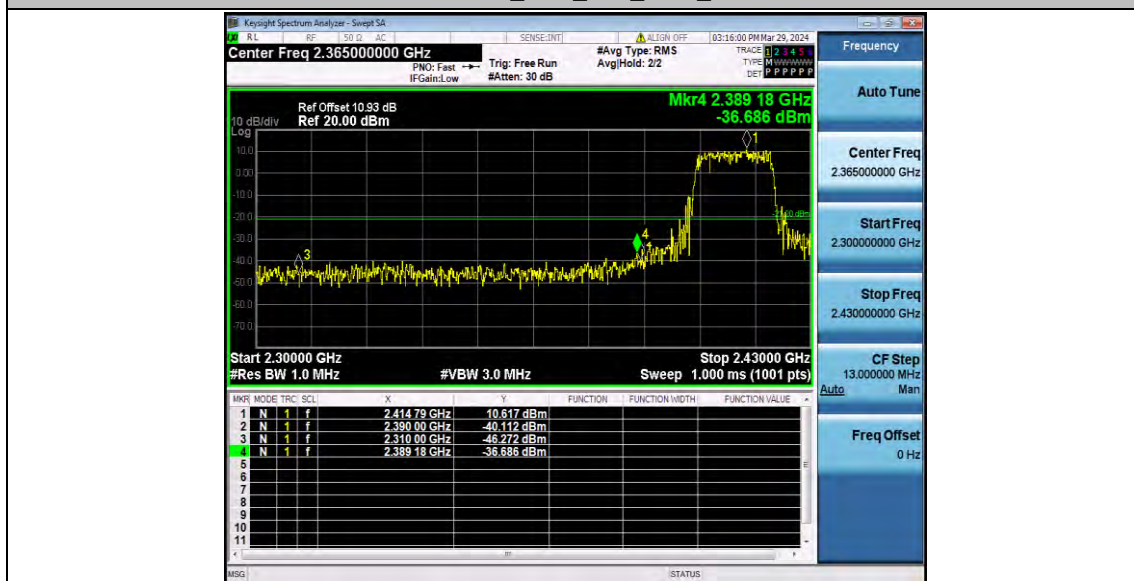
11G_Ant1_High_2462_Peak



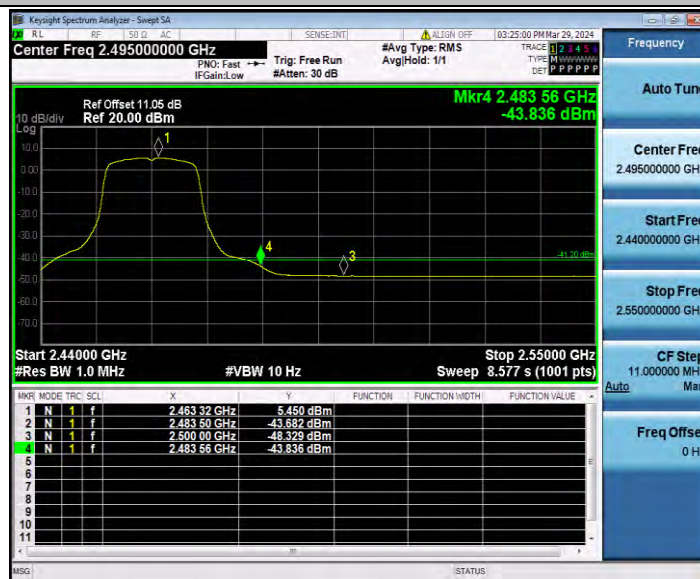
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

