

Case No. : <u>GTS20241209010-1-02</u>	
Ambient Condition: <u>22</u> °C, <u>48</u> %RH,	
Test Date: <u>2024.12.27</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	9.960	2407.040	2417.000	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	9.560	2457.000	2466.560	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
		2437	16.480	2428.800	2445.280	0.5	PASS
		2462	16.480	2453.760	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.320	2428.480	2445.800	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS

Test Graphs





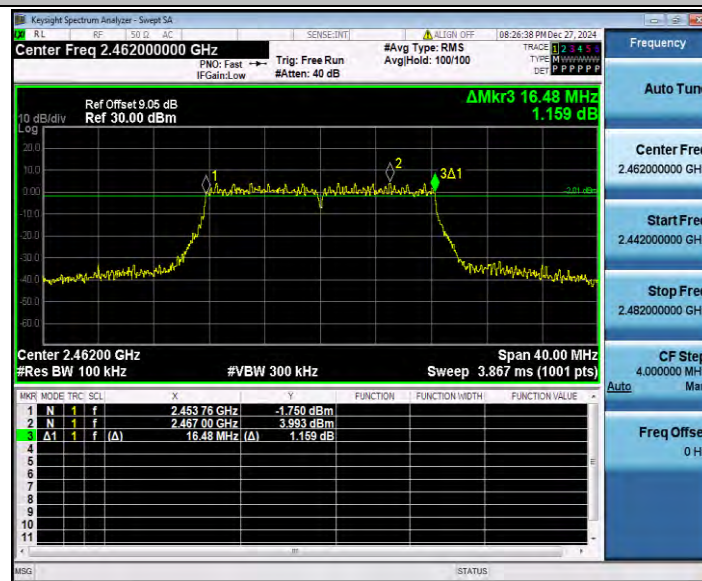
11G_Ant1_2412



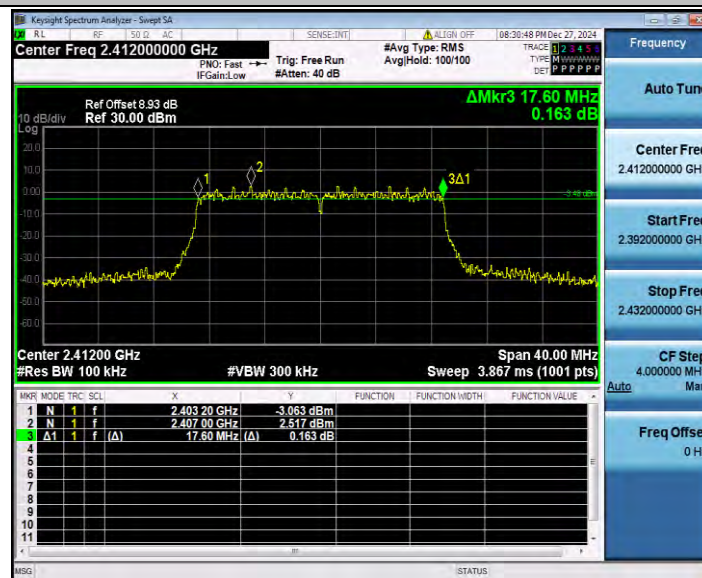
11G_Ant1_2437



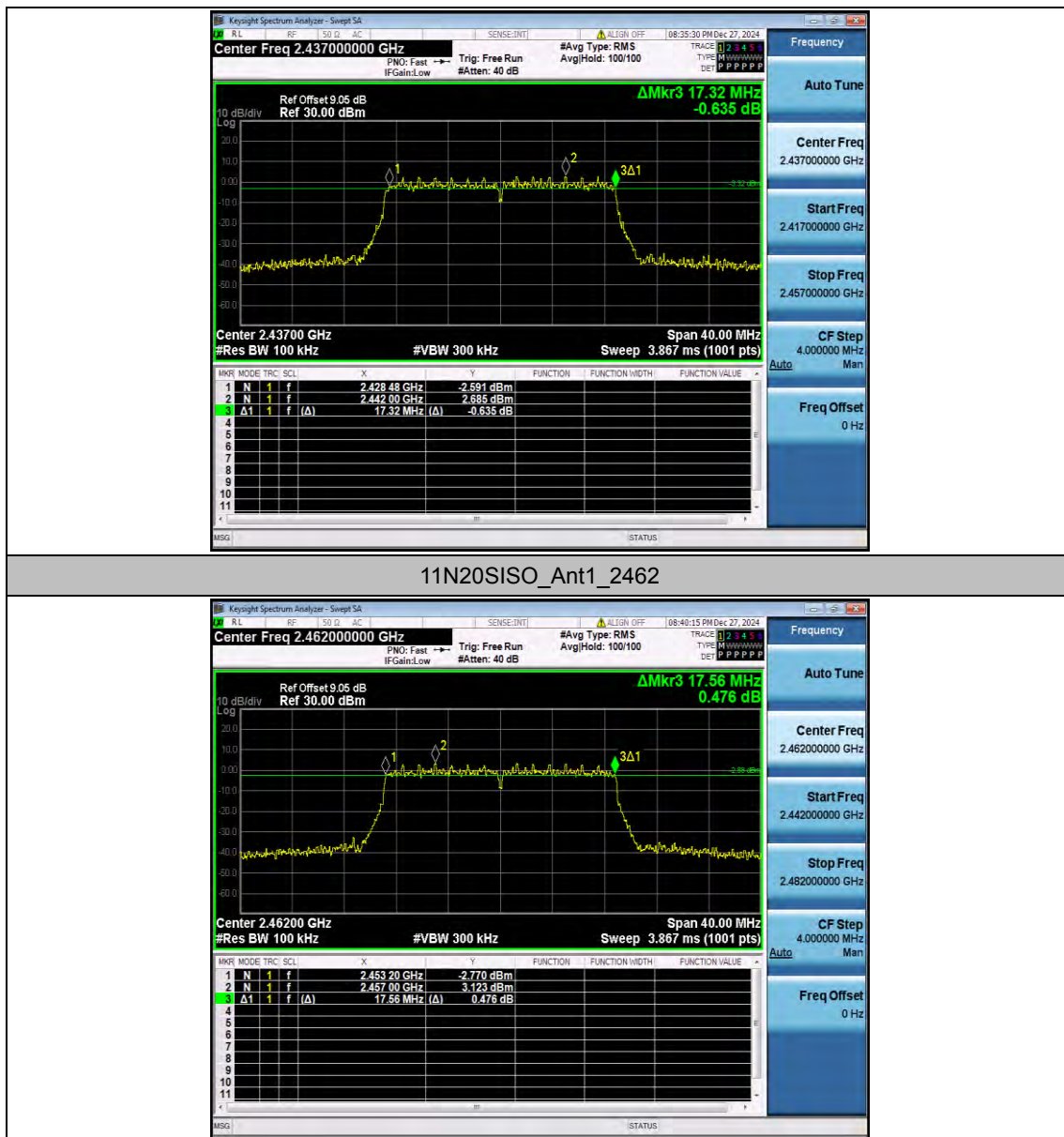
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

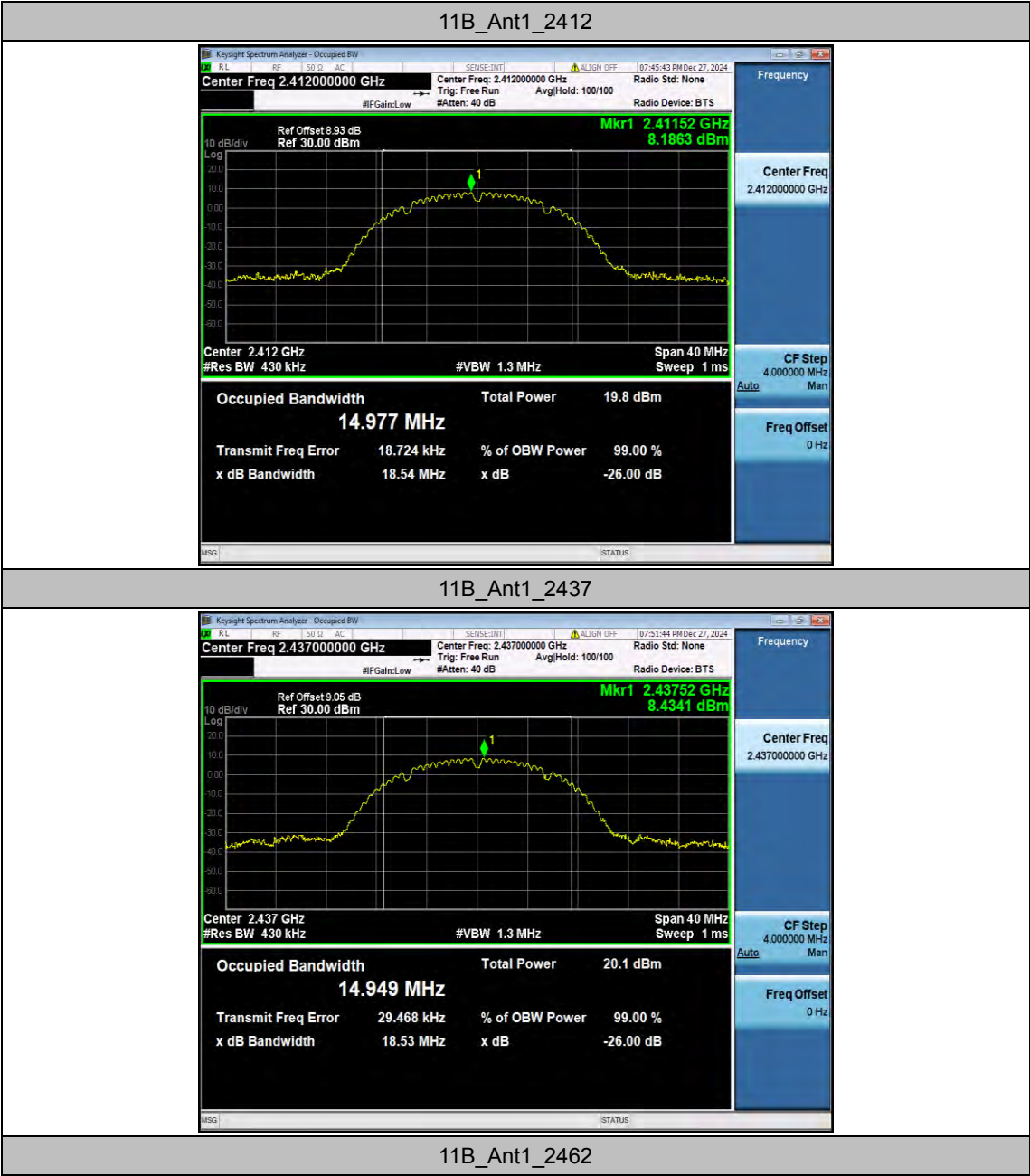


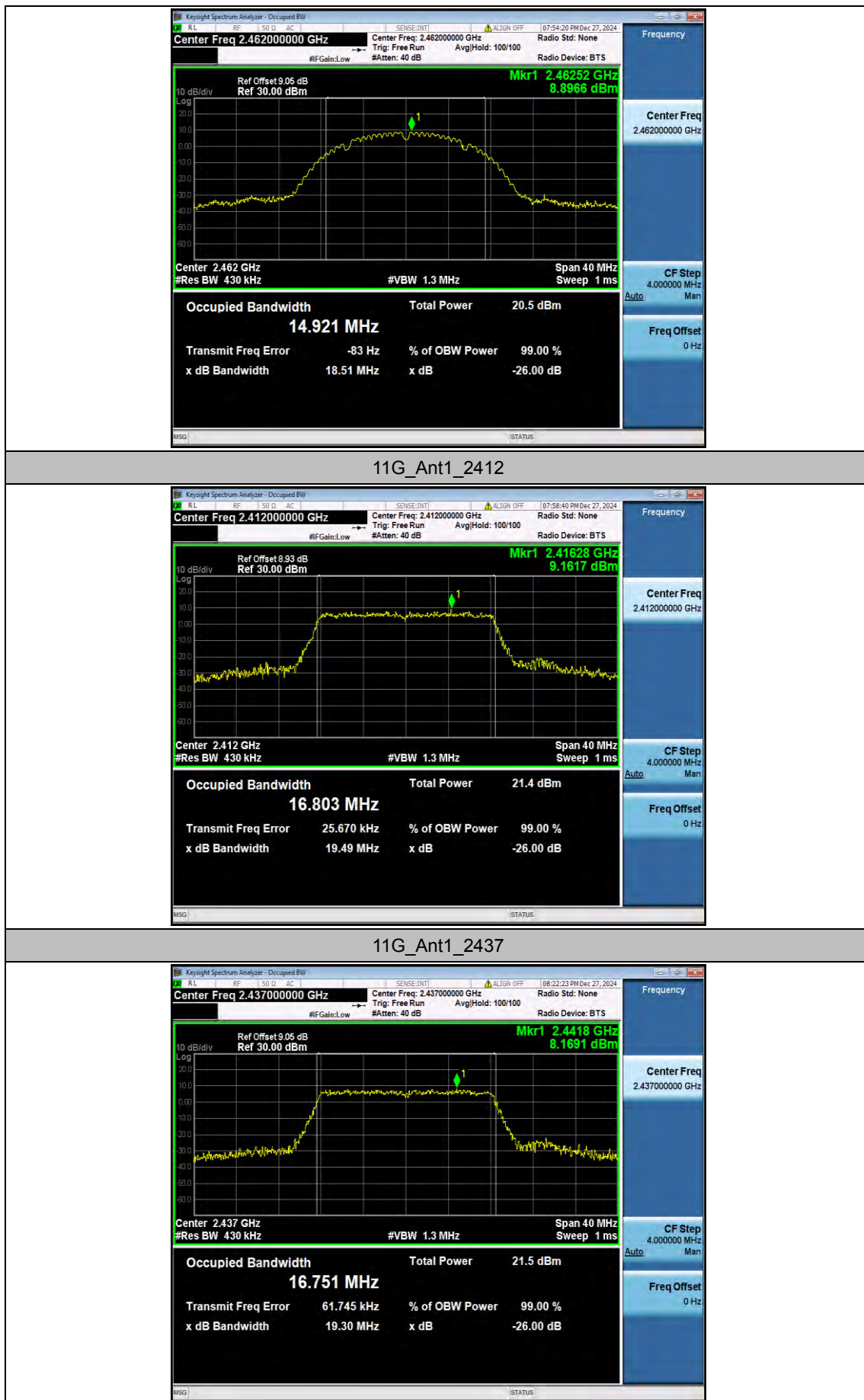
Appendix A.2: Occupied Channel Bandwidth

Test Result

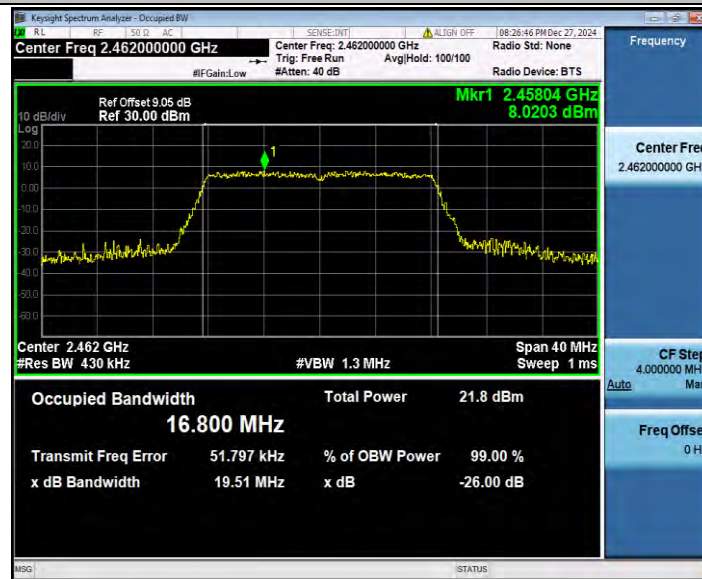
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.977	2404.5302	2419.5072	---	---
		2437	14.949	2429.5550	2444.5040	---	---
		2462	14.921	2454.5394	2469.4604	---	---
11G	Ant1	2412	16.803	2403.6242	2420.4272	---	---
		2437	16.751	2428.6862	2445.4372	---	---
		2462	16.800	2453.6518	2470.4518	---	---
11N20SISO	Ant1	2412	17.717	2403.1634	2420.8804	---	---
		2437	17.669	2428.1801	2445.8491	---	---
		2462	17.650	2453.1796	2470.8296	---	---

Test Graphs

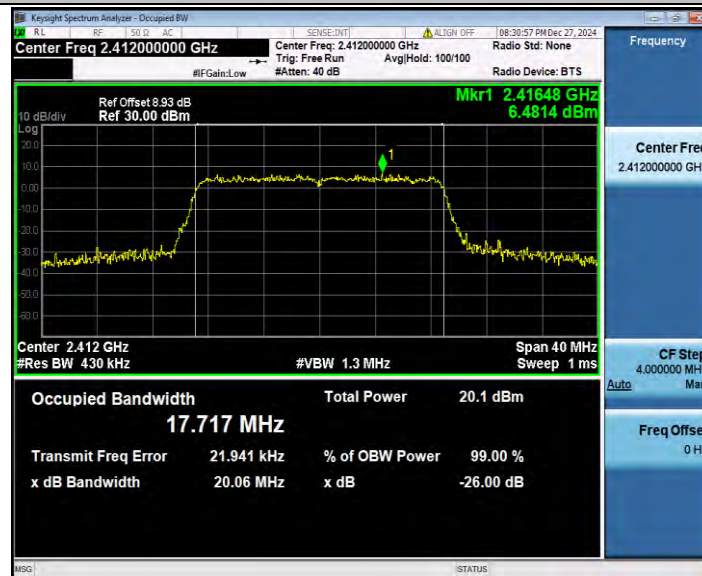




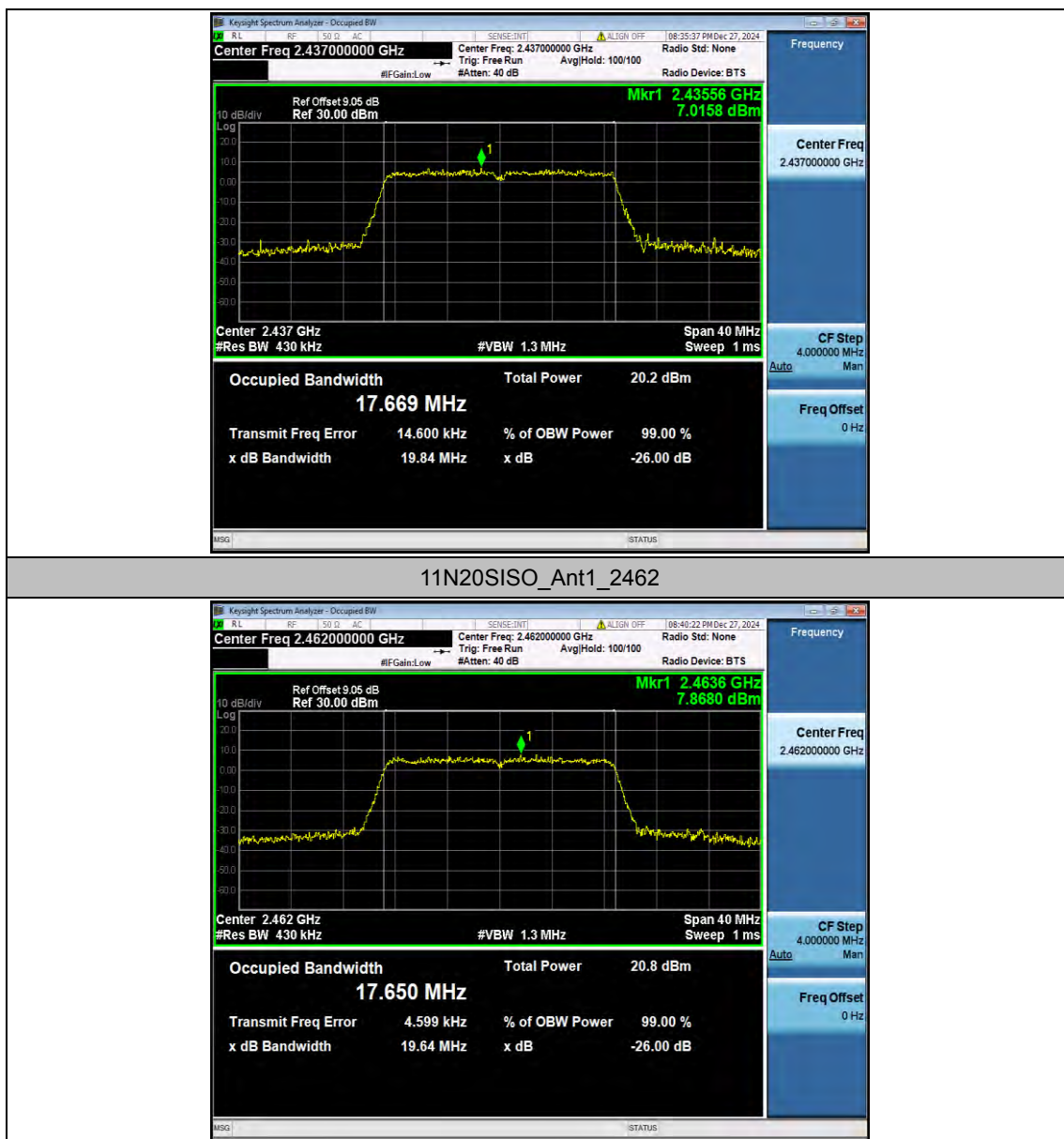
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	19.89	≤30.00	PASS
		2437	20.13	≤30.00	PASS
		2462	20.60	≤30.00	PASS
11G	Ant1	2412	22.22	≤30.00	PASS
		2437	22.42	≤30.00	PASS
		2462	22.79	≤30.00	PASS
11N20SISO	Ant1	2412	20.91	≤30.00	PASS
		2437	21.14	≤30.00	PASS
		2462	21.57	≤30.00	PASS

Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.28	≤8.00	PASS
		2437	-5.32	≤8.00	PASS
		2462	-4.41	≤8.00	PASS
11G	Ant1	2412	-10.59	≤8.00	PASS
		2437	-11.14	≤8.00	PASS
		2462	-10.34	≤8.00	PASS
11N20SISO	Ant1	2412	-11.68	≤8.00	PASS
		2437	-10.08	≤8.00	PASS
		2462	-12.10	≤8.00	PASS

Test Graphs

11B_Ant1_2412



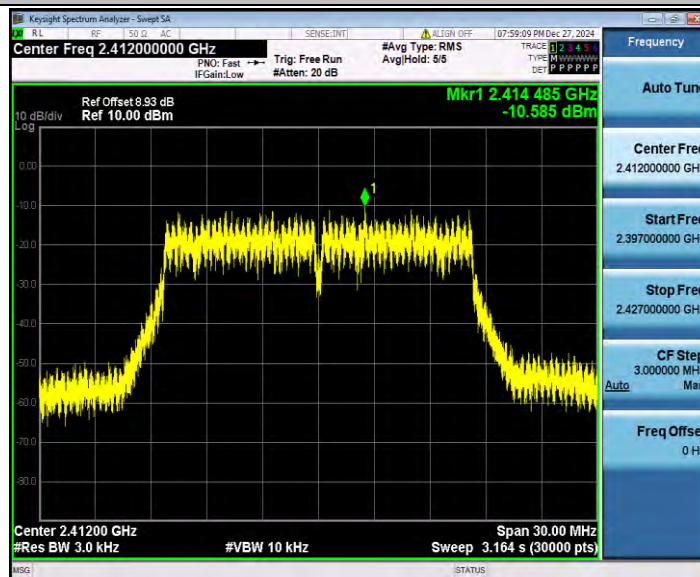
11B_Ant1_2437



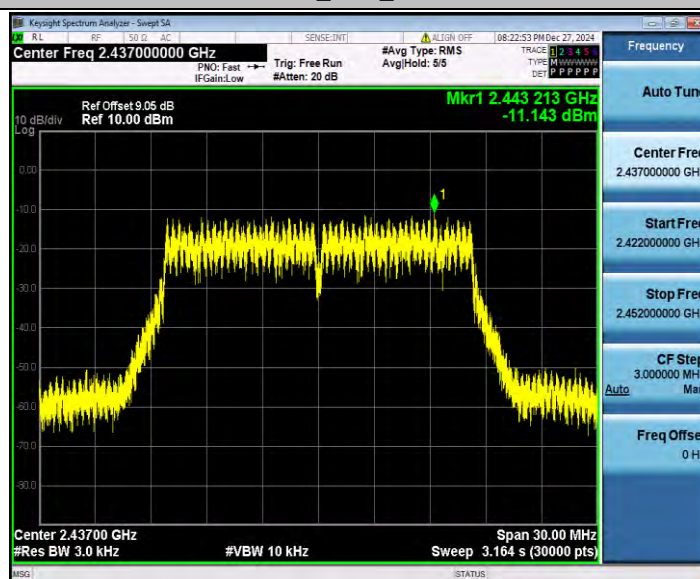
11B_Ant1_2462



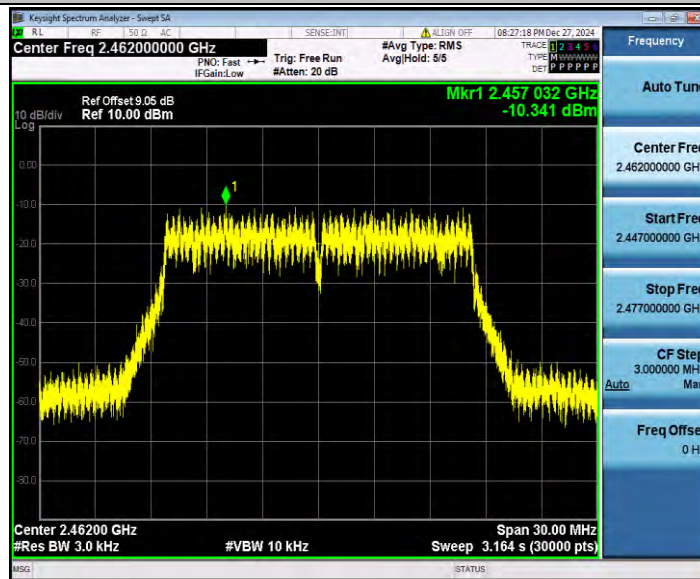
11G_Ant1_2412



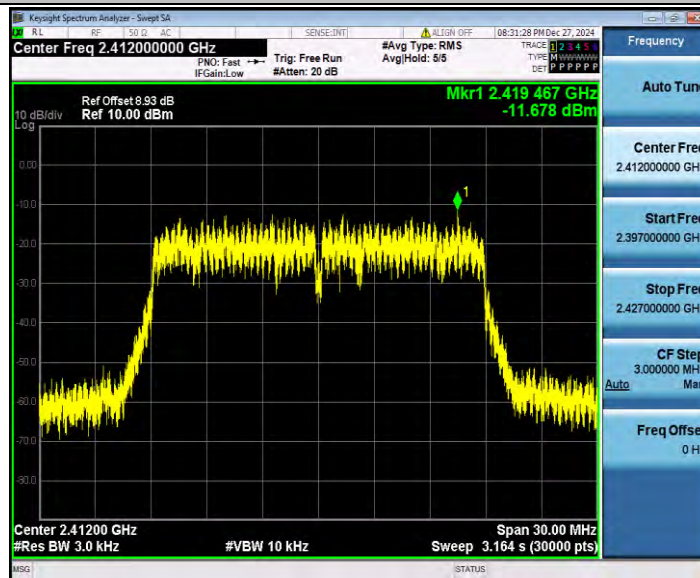
11G_Ant1_2437



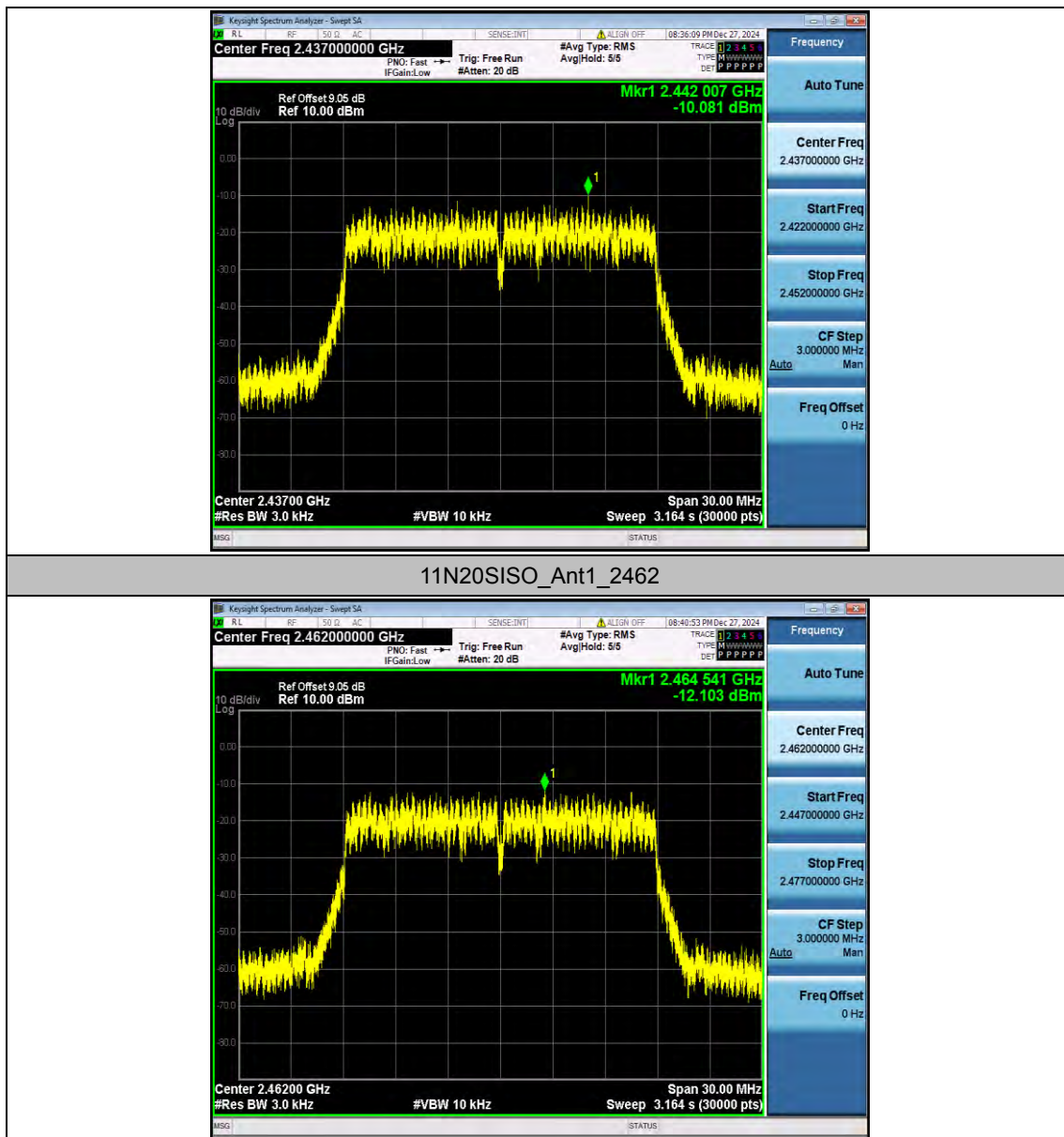
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



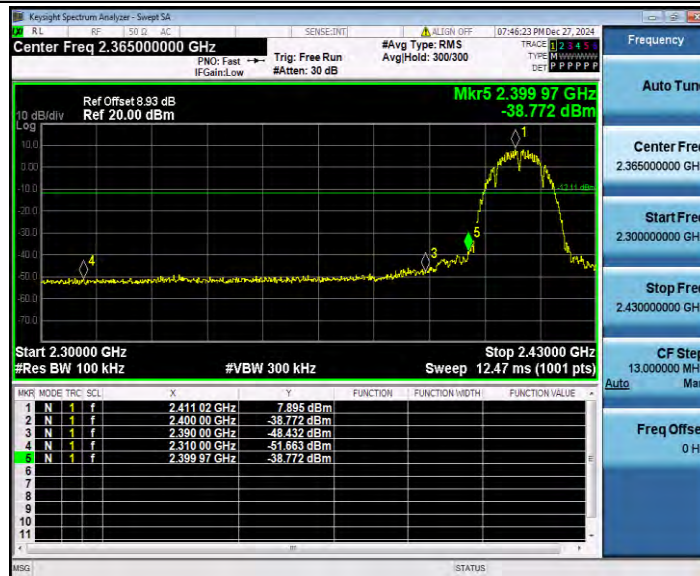
Appendix A.5: Band edge measurements

Test Result

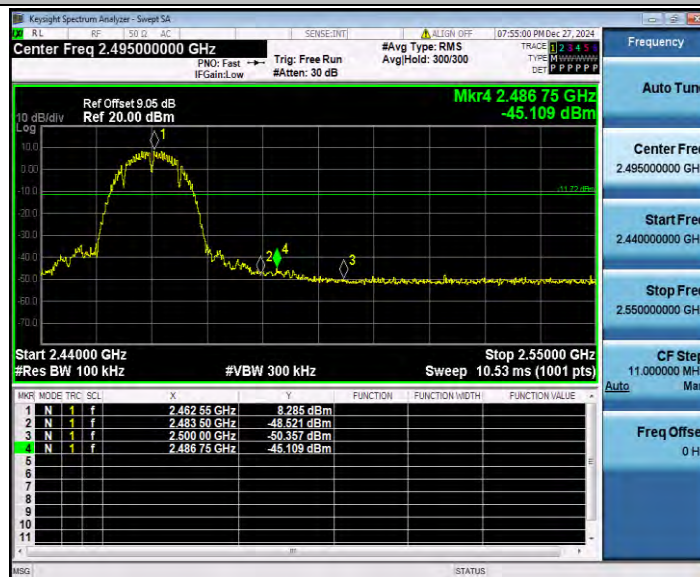
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.90	-38.77	≤ -12.11	PASS
		High	2462	8.29	-45.11	≤ -11.72	PASS
11G	Ant1	Low	2412	3.69	-32.09	≤ -16.31	PASS
		High	2462	4.26	-41.71	≤ -15.74	PASS
11N20SISO	Ant1	Low	2412	2.51	-35.27	≤ -17.49	PASS
		High	2462	3.20	-44.19	≤ -16.8	PASS

Test Graphs

11B_Ant1_Low_2412



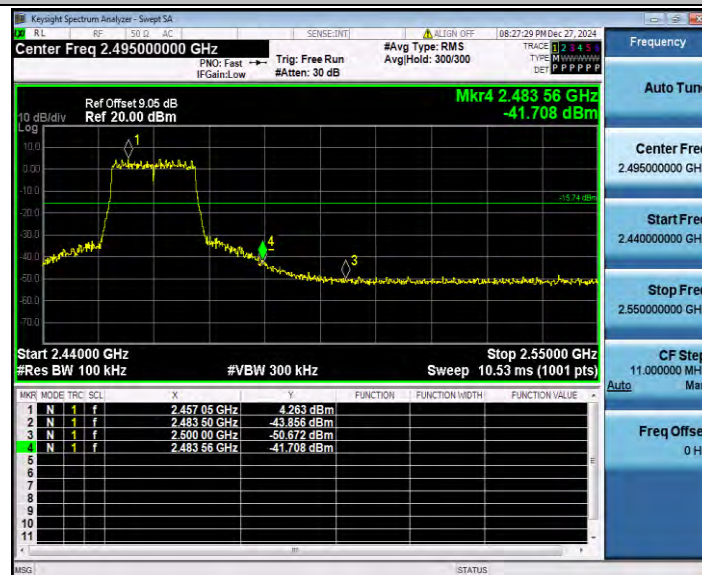
11B_Ant1_High_2462



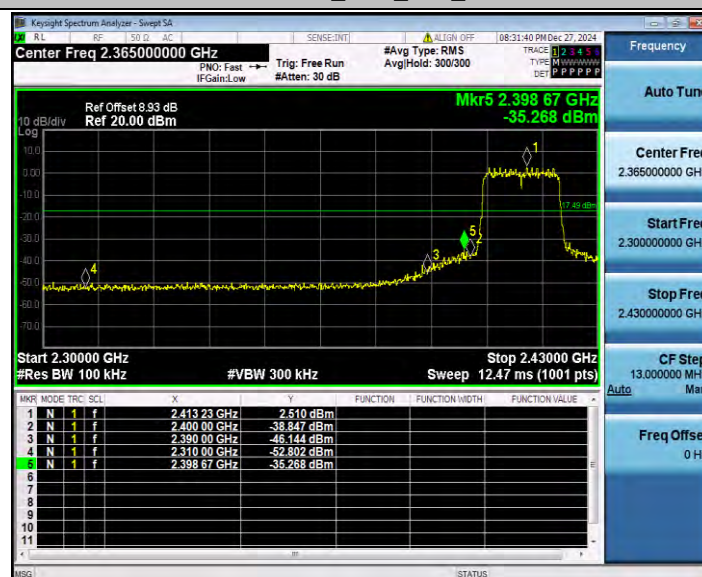
11G_Ant1_Low_2412

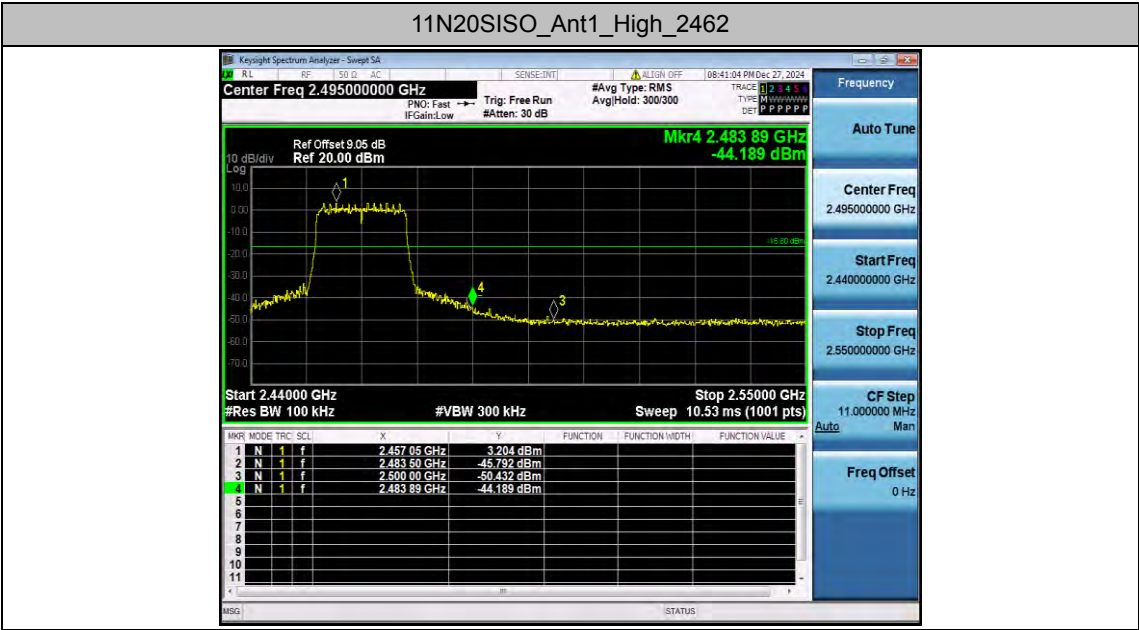


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



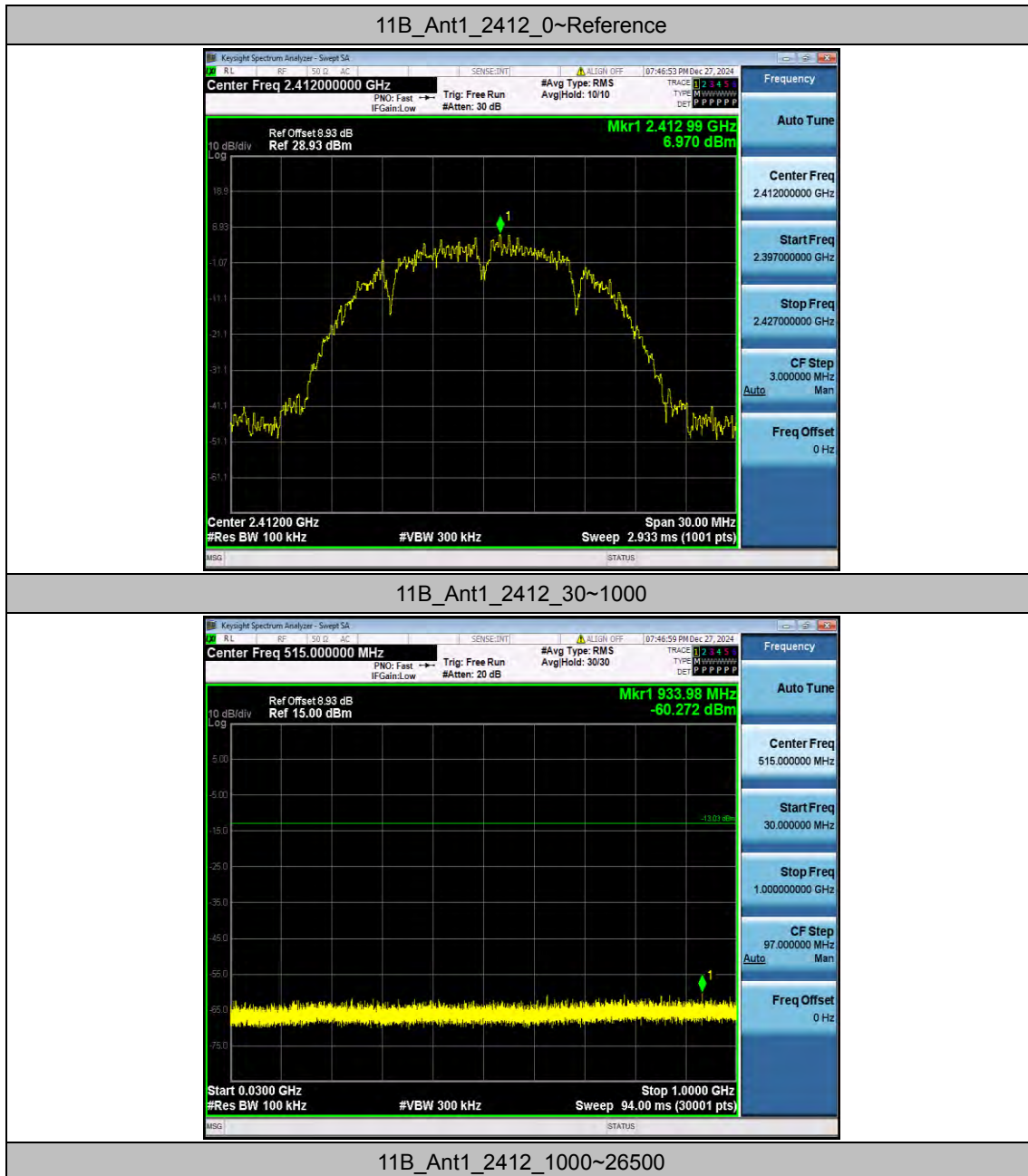


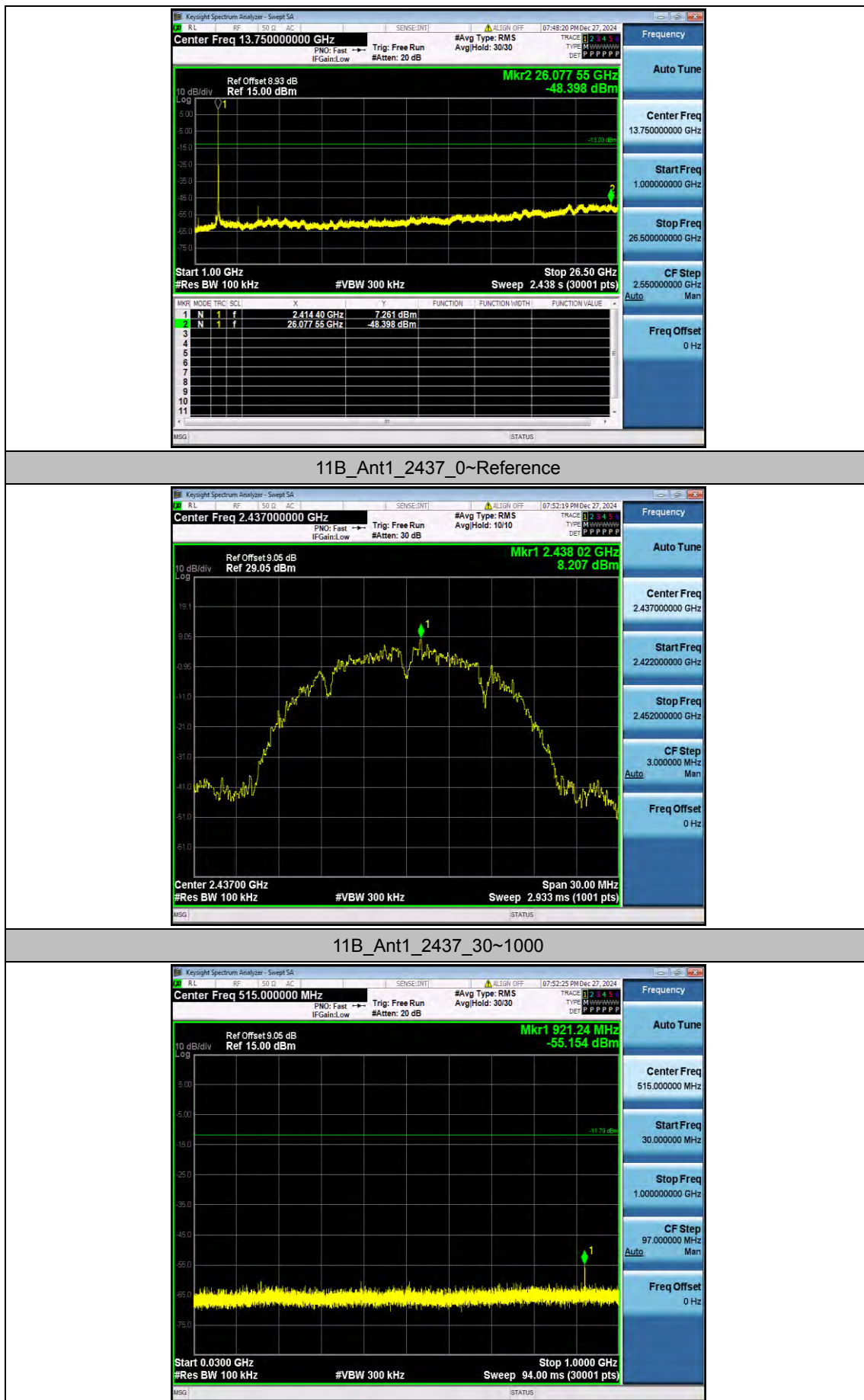
Appendix A.6: Conducted Spurious Emission

Test Result

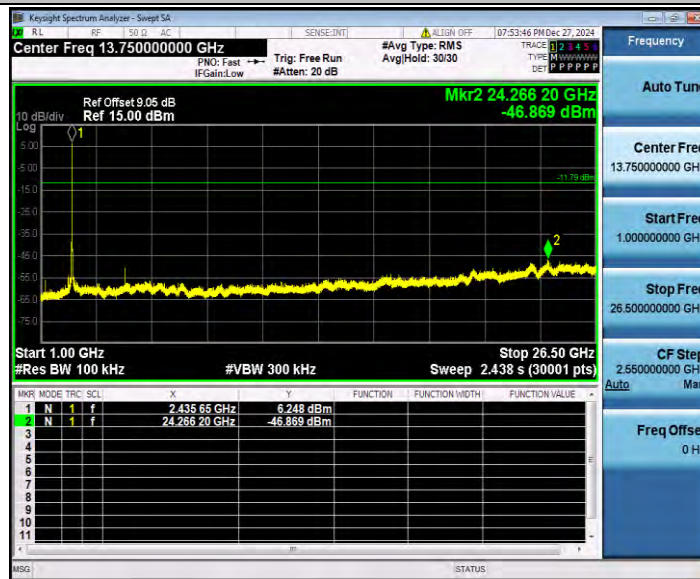
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.97	6.97	---	PASS
			30~1000	6.97	-60.27	≤ -13.03	PASS
			1000~26500	6.97	-48.4	≤ -13.03	PASS
		2437	Reference	8.21	8.21	---	PASS
			30~1000	8.21	-55.15	≤ -11.79	PASS
			1000~26500	8.21	-46.87	≤ -11.79	PASS
		2462	Reference	7.14	7.14	---	PASS
			30~1000	7.14	-59.6	≤ -12.86	PASS
			1000~26500	7.14	-46.89	≤ -12.86	PASS
11G	Ant1	2412	Reference	3.49	3.49	---	PASS
			30~1000	3.49	-60.6	≤ -16.51	PASS
			1000~26500	3.49	-48.01	≤ -16.51	PASS
		2437	Reference	3.39	3.39	---	PASS
			30~1000	3.39	-59.96	≤ -16.61	PASS
			1000~26500	3.39	-46.85	≤ -16.61	PASS
		2462	Reference	3.82	3.82	---	PASS
			30~1000	3.82	-59.98	≤ -16.18	PASS
			1000~26500	3.82	-47.72	≤ -16.18	PASS
11N20SISO	Ant1	2412	Reference	1.17	1.17	---	PASS
			30~1000	1.17	-60.79	≤ -18.83	PASS
			1000~26500	1.17	-48.06	≤ -18.83	PASS
		2437	Reference	2.75	2.75	---	PASS
			30~1000	2.75	-60.11	≤ -17.25	PASS
			1000~26500	2.75	-47.83	≤ -17.25	PASS
		2462	Reference	2.54	2.54	---	PASS
			30~1000	2.54	-60.29	≤ -17.46	PASS
			1000~26500	2.54	-47.91	≤ -17.46	PASS

Test Graphs





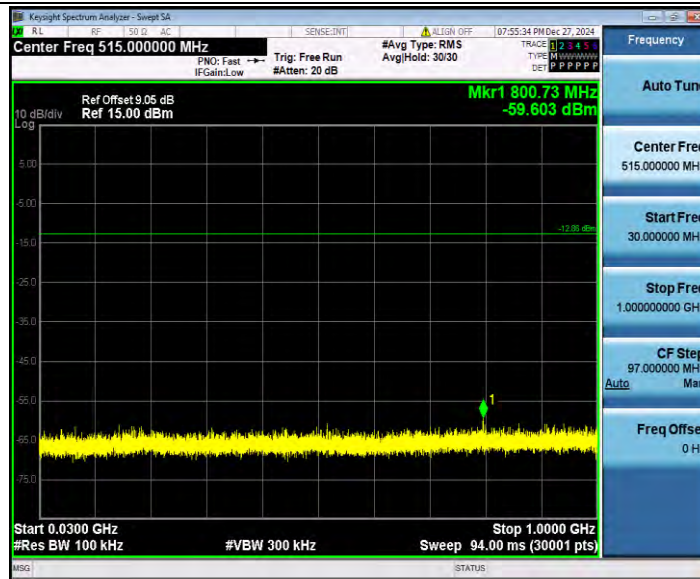
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

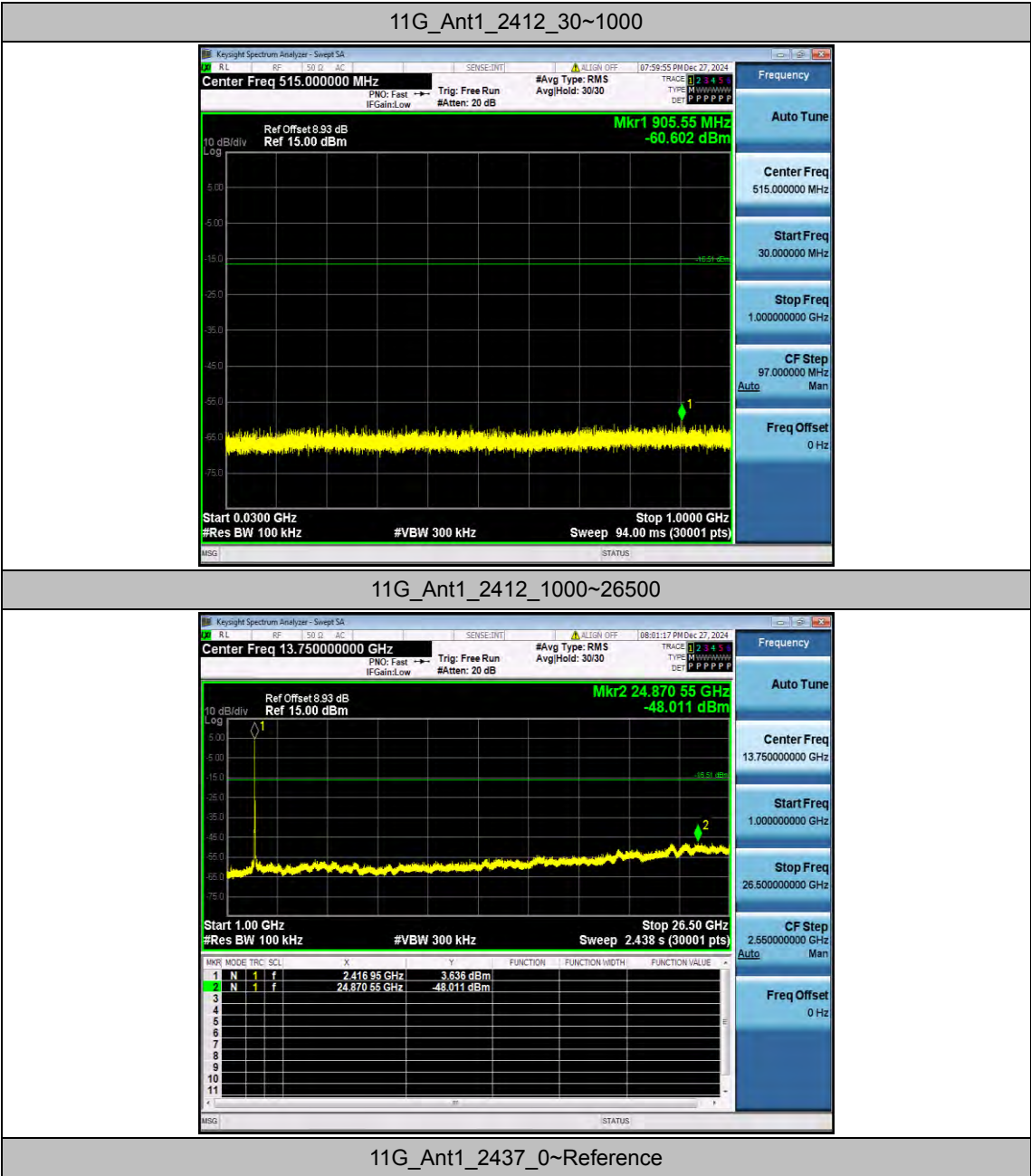


11B_Ant1_2462_1000~26500



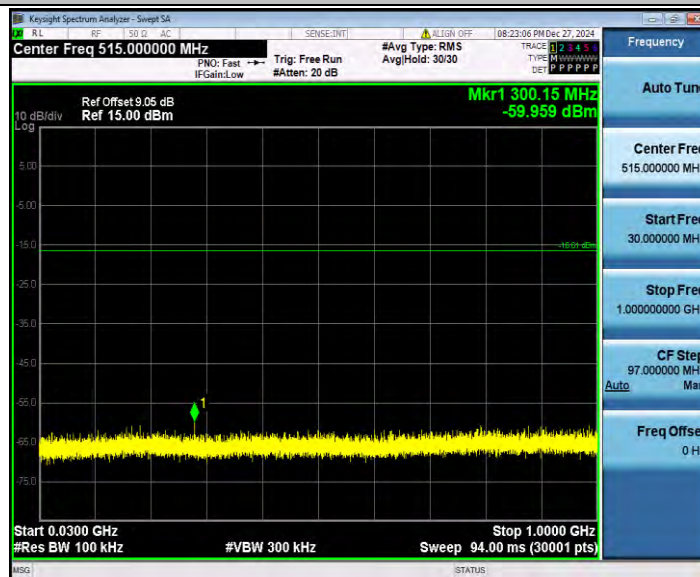
11G_Ant1_2412_0~Reference



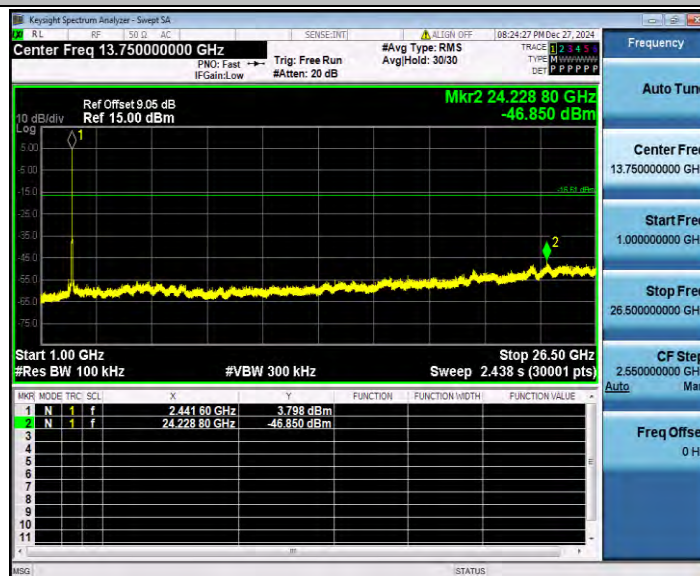




11G_Ant1_2437_30~1000



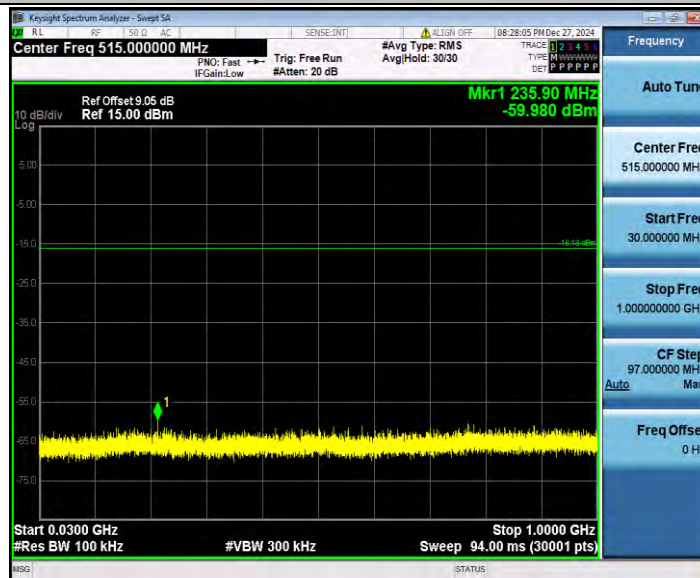
11G_Ant1_2437_1000~26500



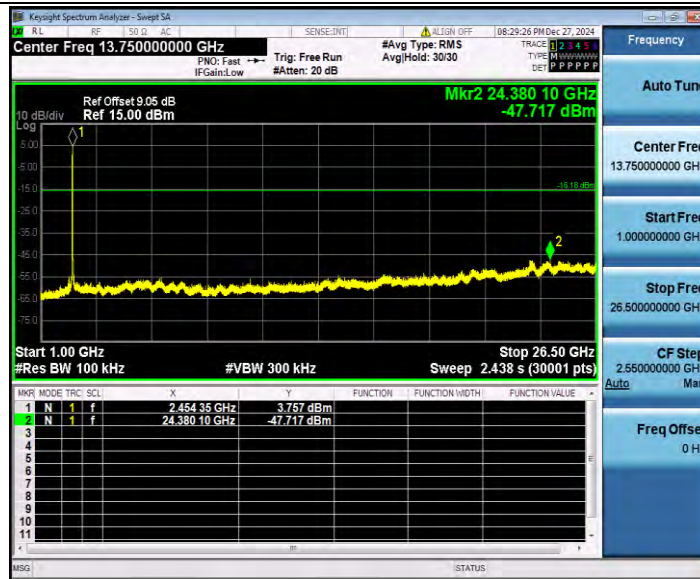
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



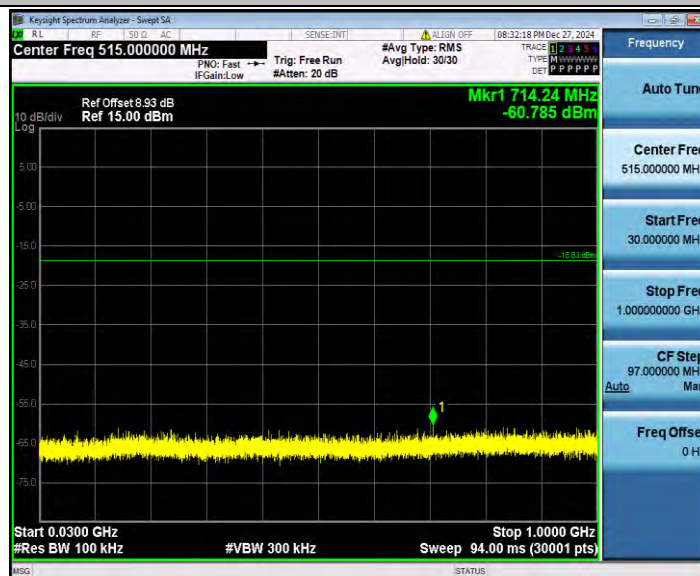
11G_Ant1_2462_1000~26500



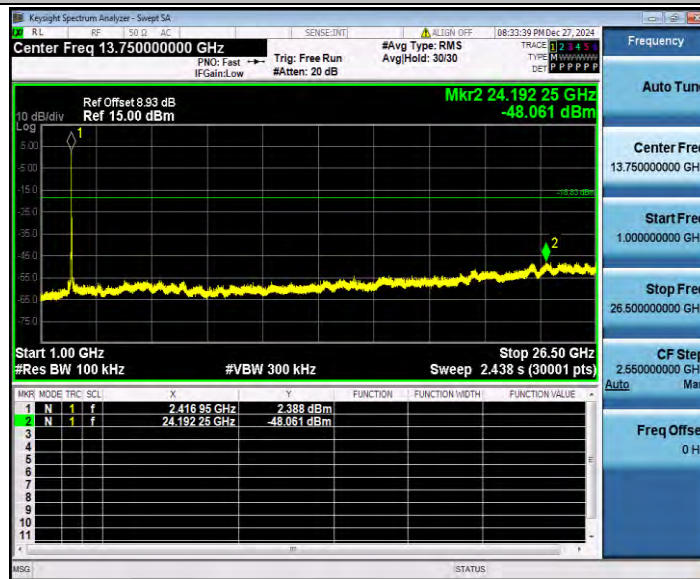
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



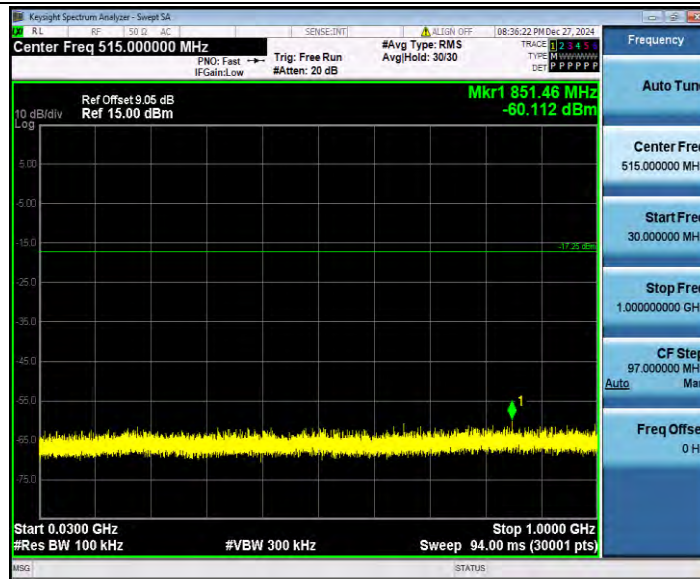
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



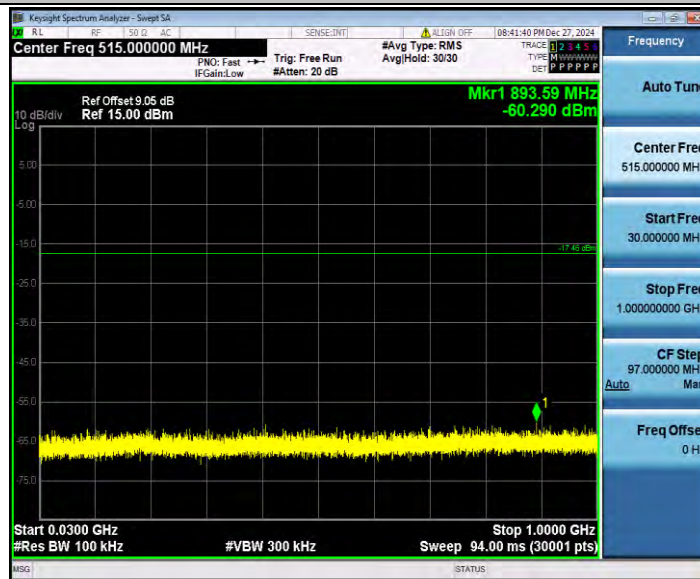
11N20SISO_Ant1_2437_1000~26500



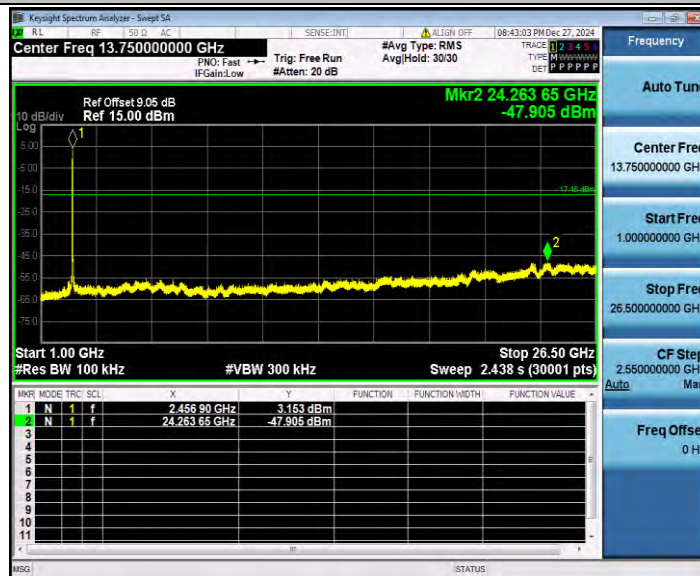
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



Appendix A.7: Emissions in Restricted Bands

Test Result

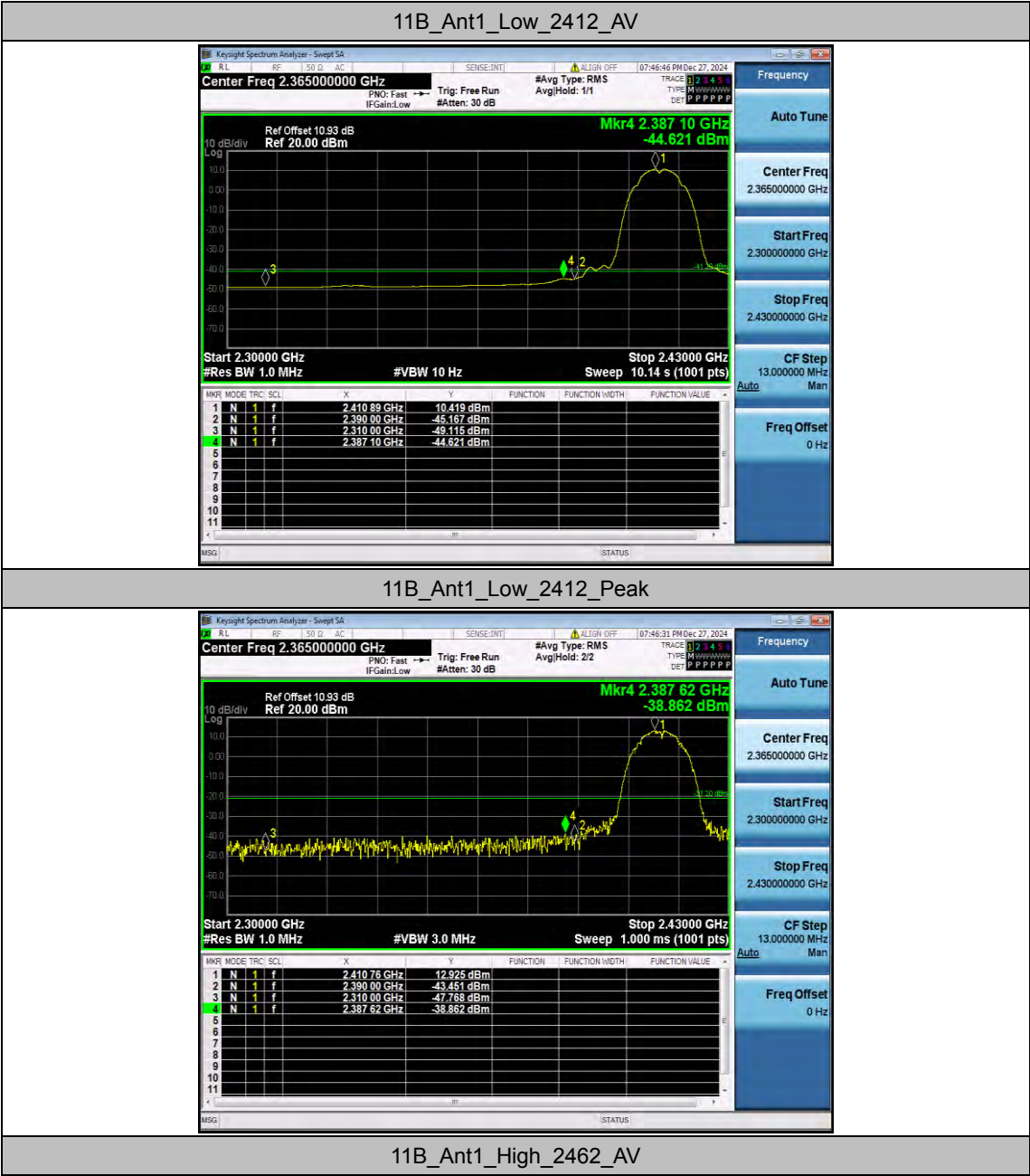
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.12	≤-41.20	46.08	≤54	PASS
				AV	2387.100	-44.62	≤-41.20	50.58	≤54	PASS
				AV	2390.000	-45.17	≤-41.20	50.03	≤54	PASS
				Peak	2310.000	-47.77	≤-21.20	47.43	≤74	PASS
				Peak	2387.620	-38.86	≤-21.20	56.34	≤74	PASS
				Peak	2390.000	-43.45	≤-21.20	51.75	≤74	PASS
		High	2462	AV	2483.500	-44.37	≤-41.20	50.83	≤54	PASS
				AV	2488.840	-43.65	≤-41.20	51.55	≤54	PASS
				AV	2500.000	-47.56	≤-41.20	47.64	≤54	PASS
				Peak	2483.500	-43.77	≤-21.20	51.43	≤74	PASS
				Peak	2485.540	-37.41	≤-21.20	57.79	≤74	PASS
				Peak	2500.000	-47.83	≤-21.20	47.37	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.61	≤-41.20	45.59	≤54	PASS
				AV	2389.960	-45.93	≤-41.20	49.27	≤54	PASS
				AV	2390.000	-45.93	≤-41.20	49.27	≤54	PASS
				Peak	2310.000	-48.68	≤-21.20	46.52	≤74	PASS
				Peak	2388.790	-35.17	≤-21.20	60.03	≤74	PASS
				Peak	2390.000	-38.54	≤-21.20	56.66	≤74	PASS
		High	2462	AV	2483.500	-45.66	≤-41.20	49.54	≤54	PASS
				AV	2483.560	-45.76	≤-41.20	49.44	≤54	PASS
				AV	2500.000	-48.75	≤-41.20	46.45	≤54	PASS
				Peak	2483.500	-45.59	≤-21.20	49.61	≤74	PASS
				Peak	2485.100	-36.84	≤-21.20	58.36	≤74	PASS
				Peak	2500.000	-46.06	≤-21.20	49.14	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.36	≤-41.20	45.84	≤54	PASS
				AV	2389.960	-43.07	≤-41.20	52.13	≤54	PASS
				AV	2390.000	-43.07	≤-41.20	52.13	≤54	PASS
				Peak	2310.000	-46.55	≤-21.20	48.65	≤74	PASS
				Peak	2389.440	-35.43	≤-21.20	59.77	≤74	PASS
				Peak	2390.000	-46.3	≤-21.20	48.90	≤74	PASS
		High	2462	AV	2483.500	-43.24	≤-41.20	51.96	≤54	PASS
				AV	2483.560	-43.33	≤-41.20	51.87	≤54	PASS
				AV	2500.000	-48.17	≤-41.20	47.03	≤54	PASS
				Peak	2483.500	-42.75	≤-21.20	52.45	≤74	PASS
				Peak	2486.200	-35.46	≤-21.20	59.74	≤74	PASS

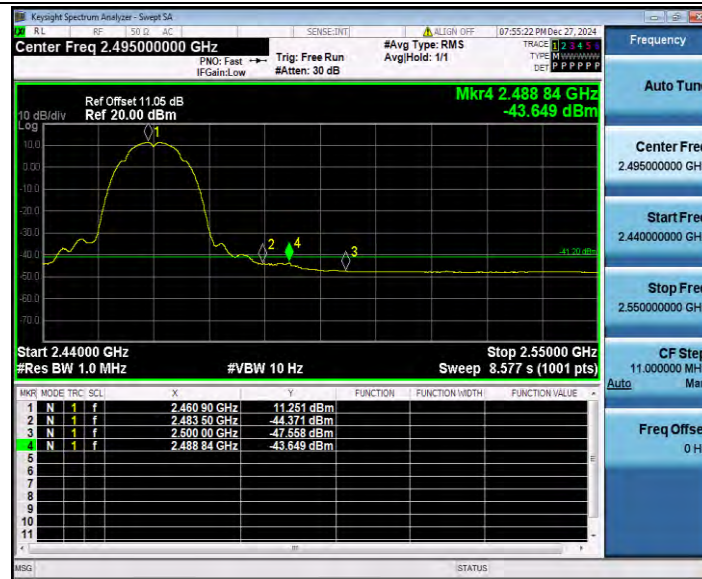
				Peak	2500.000	-42.58	≤-21.20	52.62	≤74	PASS
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Note:

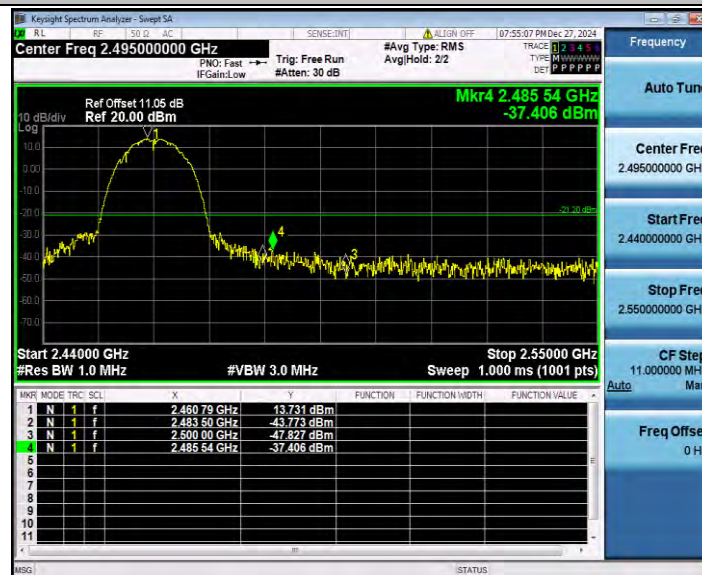
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

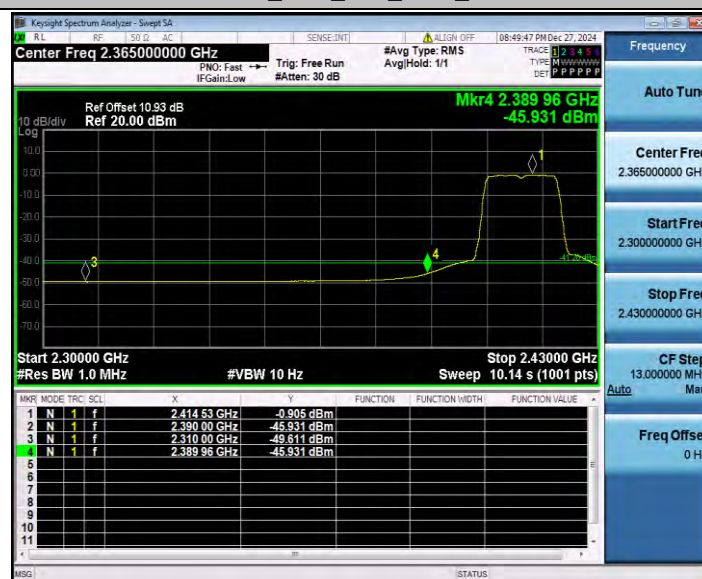




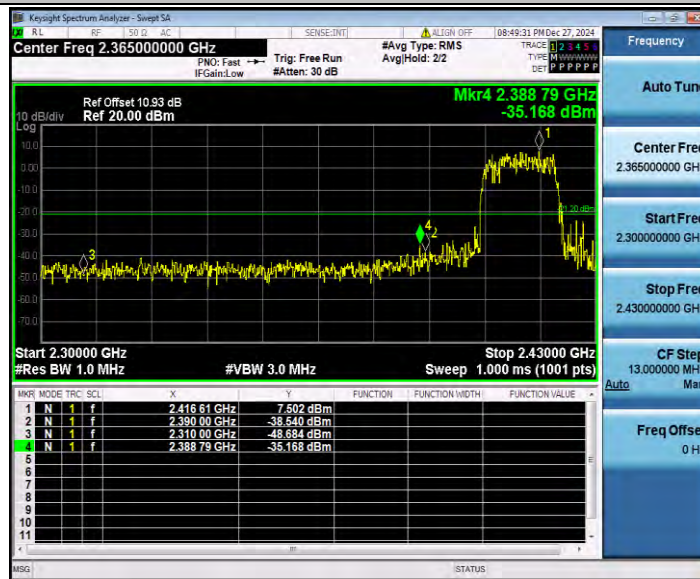
11B_Ant1_High_2462_Peak



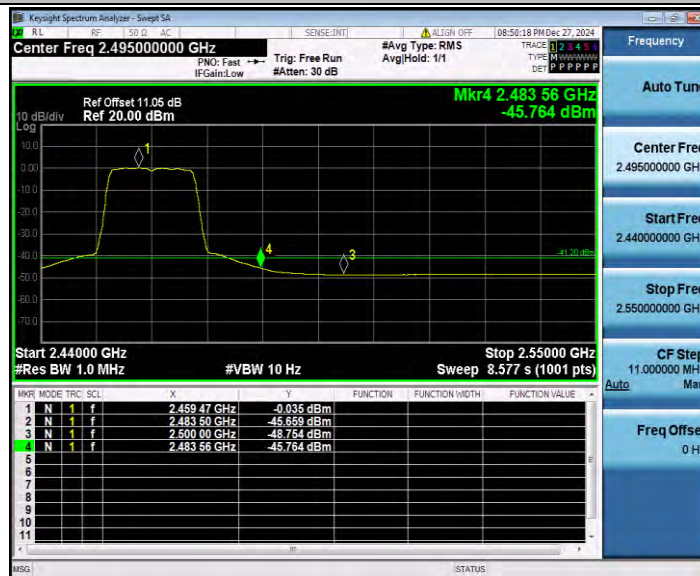
11G_Ant1_Low_2412_AV



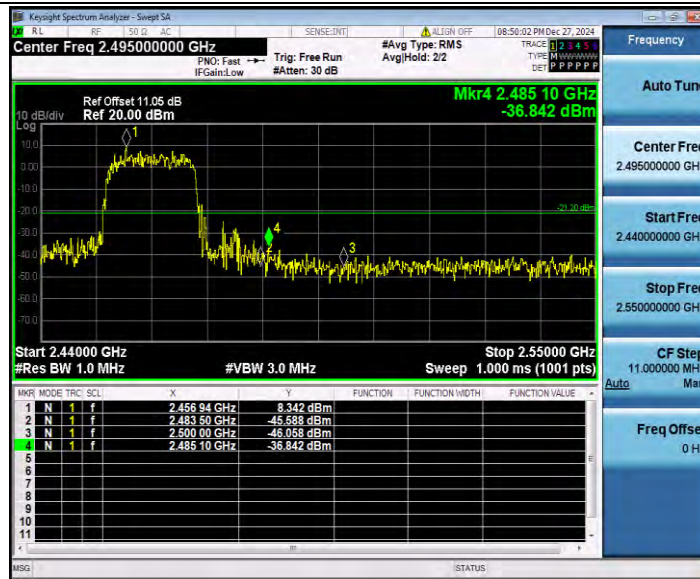
11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



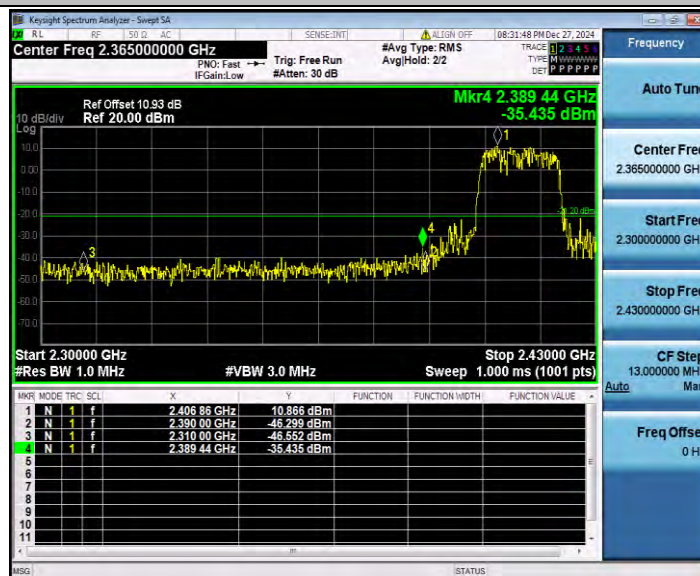
11G_Ant1_High_2462_Peak



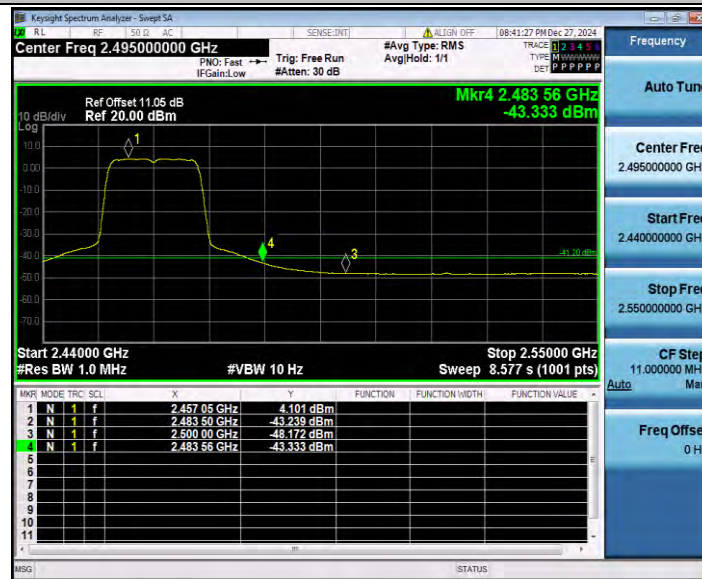
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

