

Case No. : <u>CTA24050902603</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH,	
Test Date: <u>2024.4.16</u>	Test Engineer: <u>Evan ouyang</u>

Appendix C.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2407.960	2416.040	0.5	PASS
		2437	8.040	2433.000	2441.040	0.5	PASS
		2462	8.080	2457.960	2466.040	0.5	PASS
11G	Ant1	2412	15.040	2404.480	2419.520	0.5	PASS
		2437	14.720	2429.760	2444.480	0.5	PASS
		2462	15.280	2454.240	2469.520	0.5	PASS
11N20SISO	Ant1	2412	17.080	2403.480	2420.560	0.5	PASS
		2437	13.760	2429.480	2443.240	0.5	PASS
		2462	13.840	2455.680	2469.520	0.5	PASS

Test Graphs

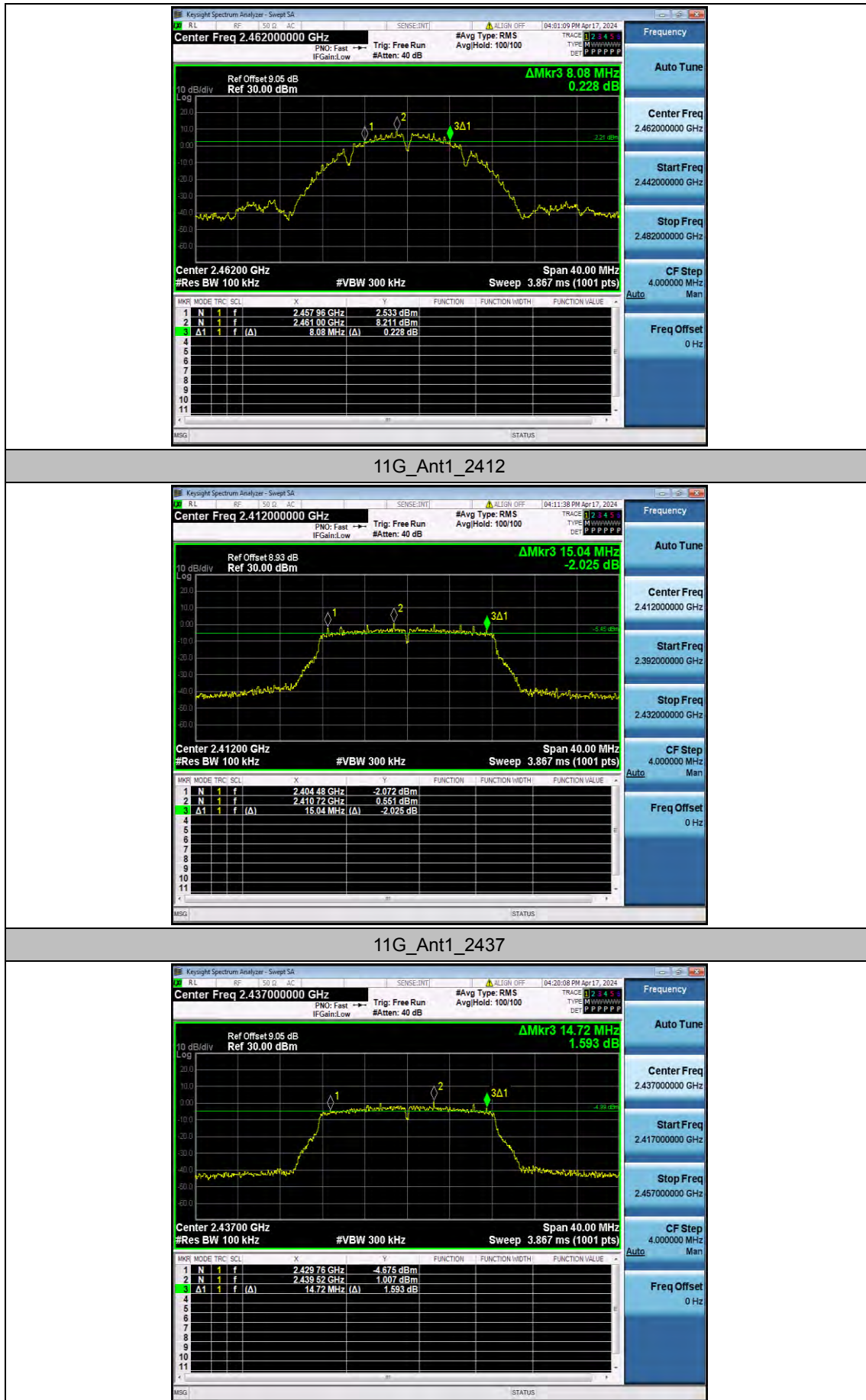
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



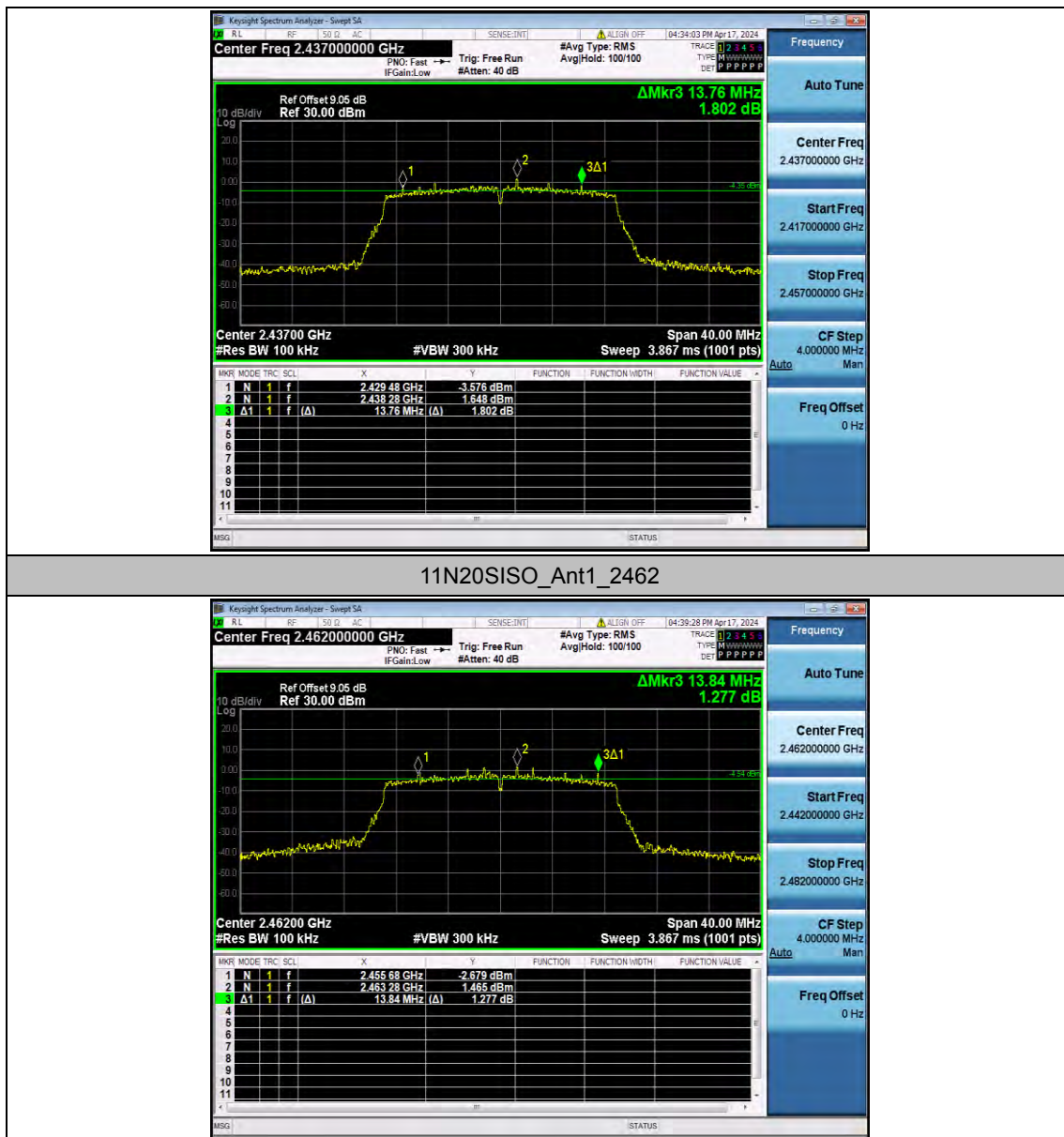
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



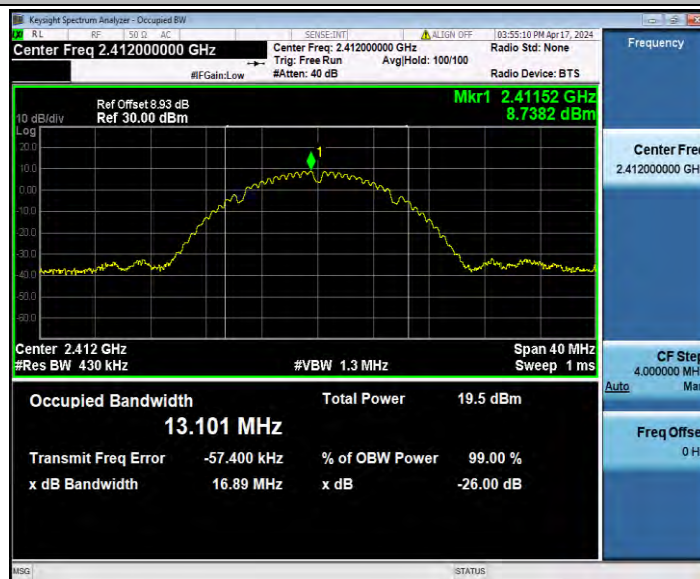
Appendix C.2: Occupied Channel Bandwidth

Test Result

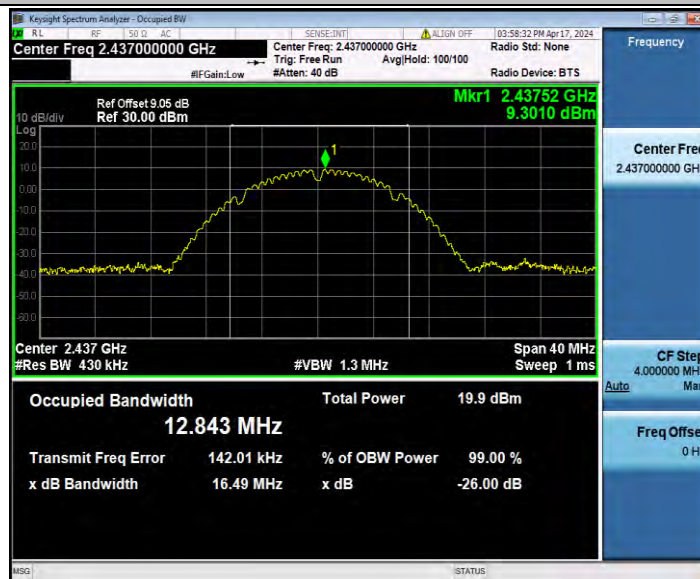
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.101	2405.3921	2418.4931	---	---
		2437	12.843	2430.7205	2443.5635	---	---
		2462	13.323	2455.2449	2468.5679	---	---
11G	Ant1	2412	16.847	2403.6433	2420.4903	---	---
		2437	16.819	2428.6126	2445.4316	---	---
		2462	16.834	2453.5985	2470.4325	---	---
11N20SISO	Ant1	2412	17.872	2403.0859	2420.9579	---	---
		2437	17.781	2428.1537	2445.9347	---	---
		2462	17.871	2453.0680	2470.9390	---	---

Test Graphs

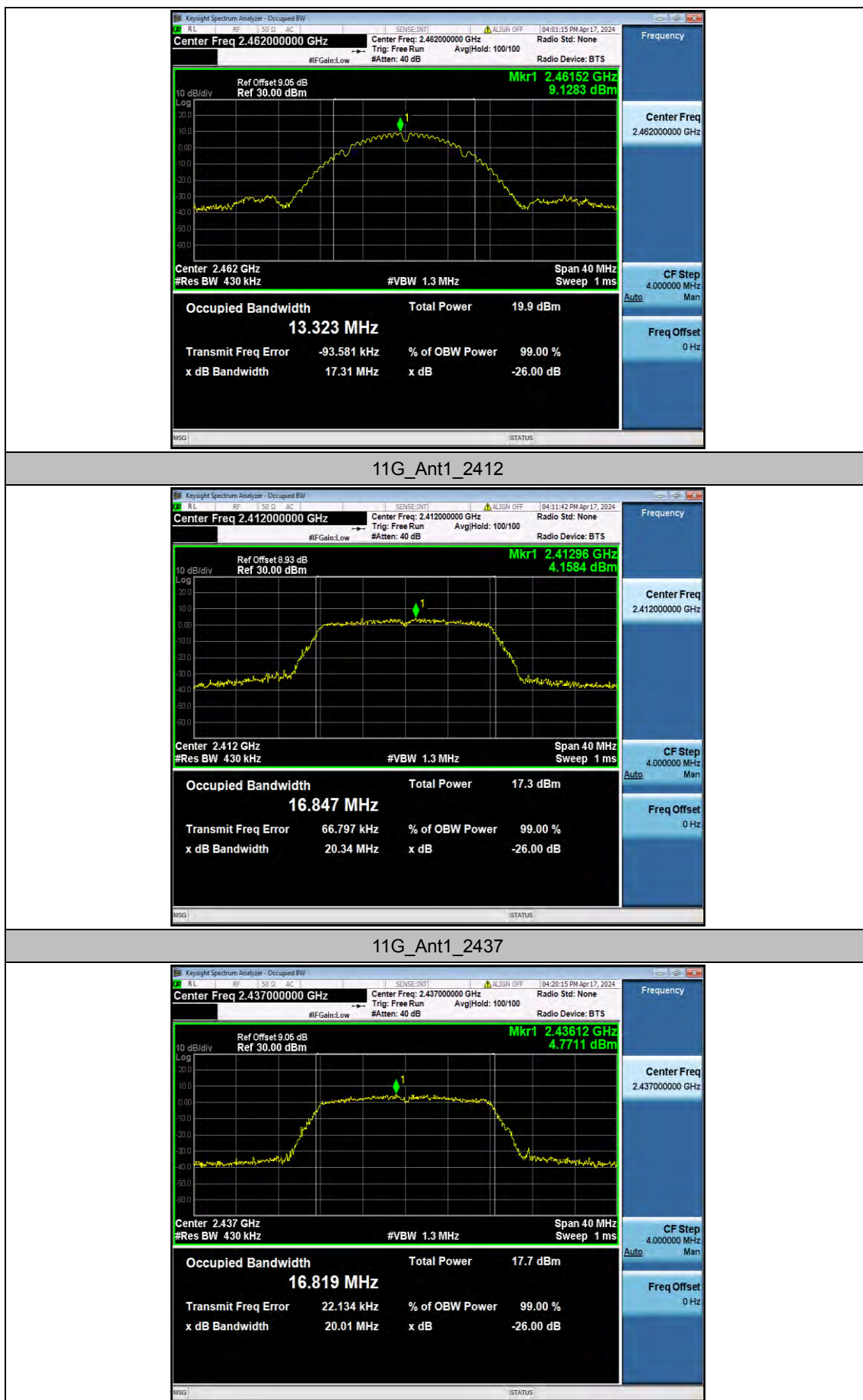
11B_Ant1_2412



11B_Ant1_2437



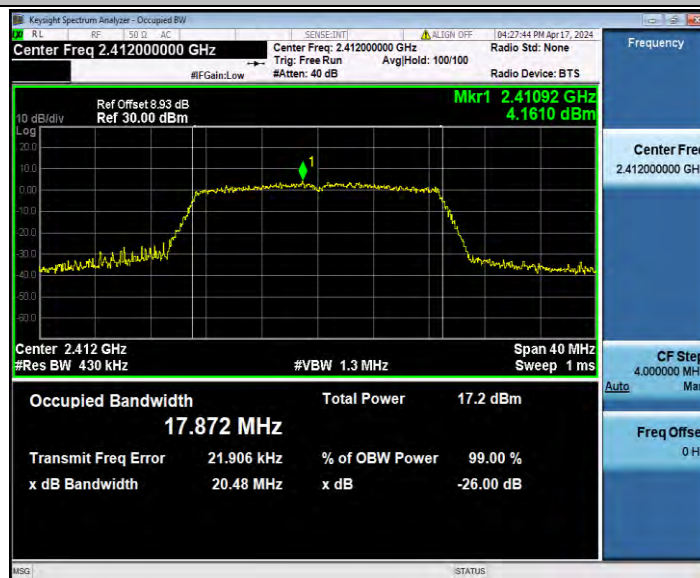
11B_Ant1_2462



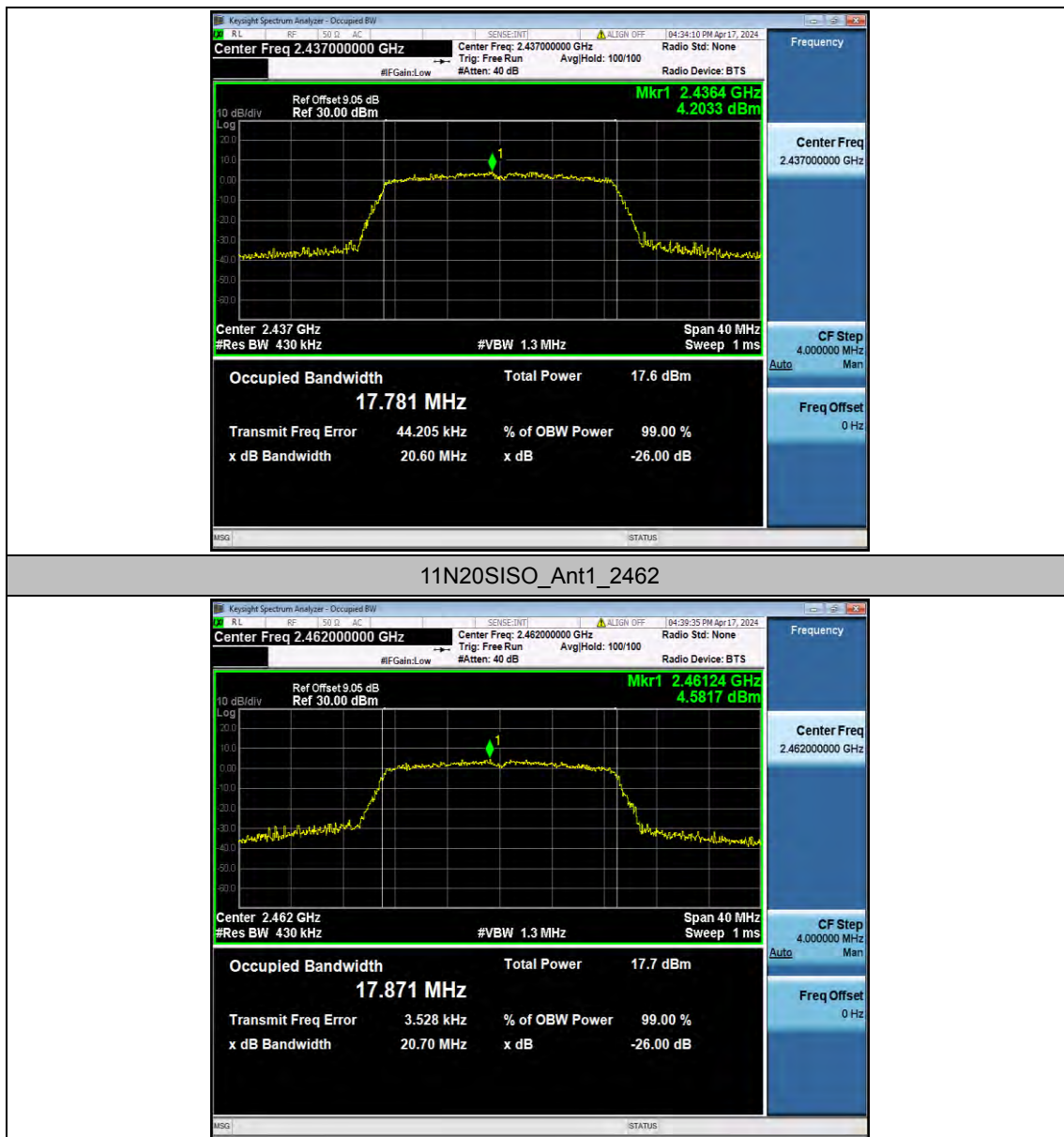
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix C.3: Maximum conducted output power

Test Result -CHP

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	19.52	≤30.00	PASS
		2437	19.97	≤30.00	PASS
		2462	19.95	≤30.00	PASS
11G	Ant1	2412	18.43	≤30.00	PASS
		2437	18.89	≤30.00	PASS
		2462	18.91	≤30.00	PASS
11N20SISO	Ant1	2412	18.41	≤30.00	PASS
		2437	18.83	≤30.00	PASS
		2462	18.88	≤30.00	PASS

Note:

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

Appendix C.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.98	≤8.00	PASS
		2437	-4.38	≤8.00	PASS
		2462	-5.15	≤8.00	PASS
11G	Ant1	2412	-12.97	≤8.00	PASS
		2437	-12.95	≤8.00	PASS
		2462	-11.79	≤8.00	PASS
11N20SISO	Ant1	2412	-13.59	≤8.00	PASS
		2437	-13.51	≤8.00	PASS
		2462	-11.91	≤8.00	PASS

Note:

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

Test Graphs

11B_Ant1_2412



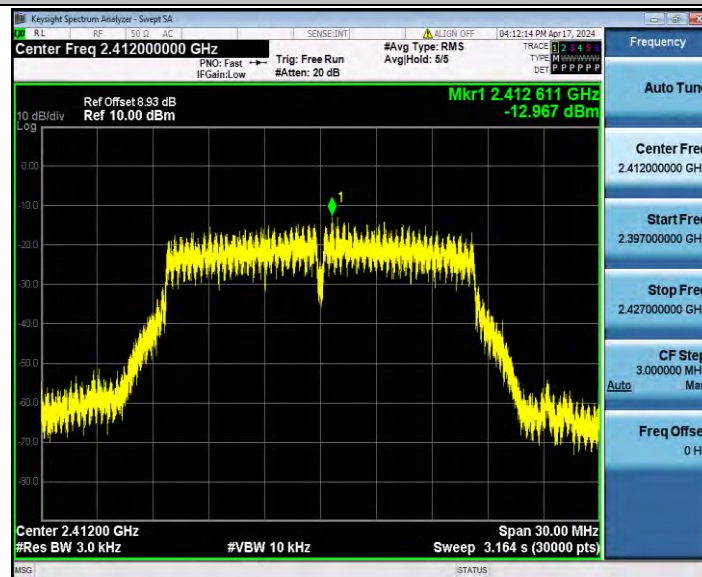
11B_Ant1_2437



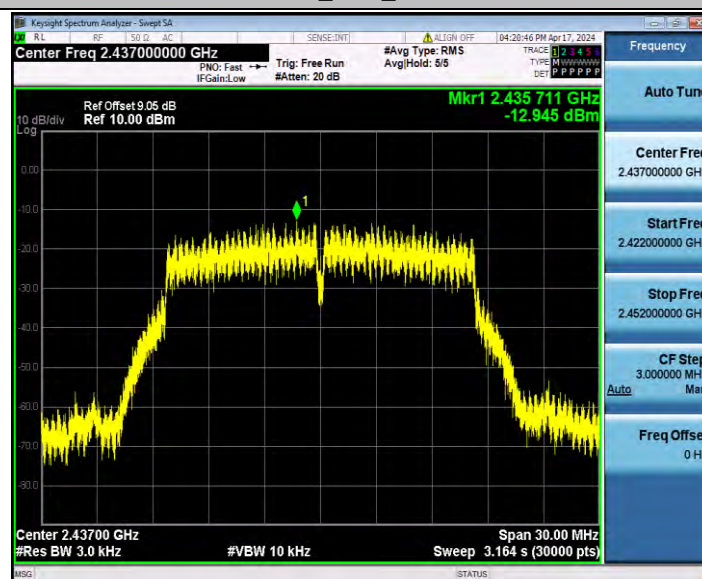
11B_Ant1_2462



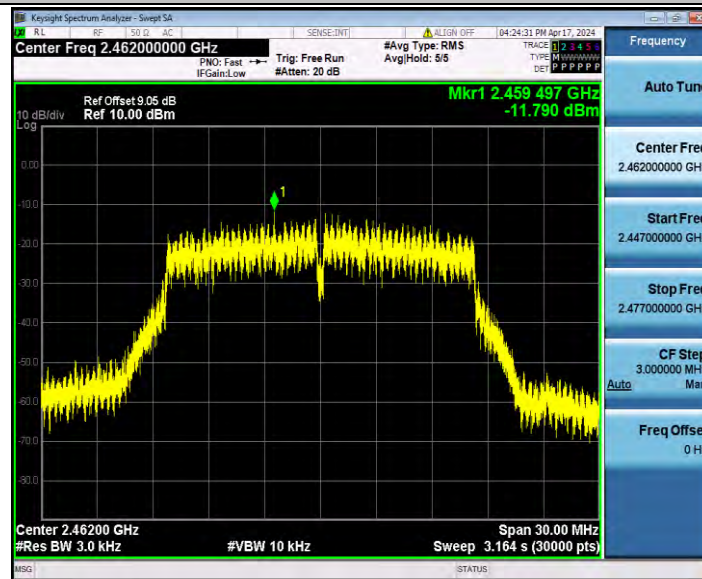
11G_Ant1_2412



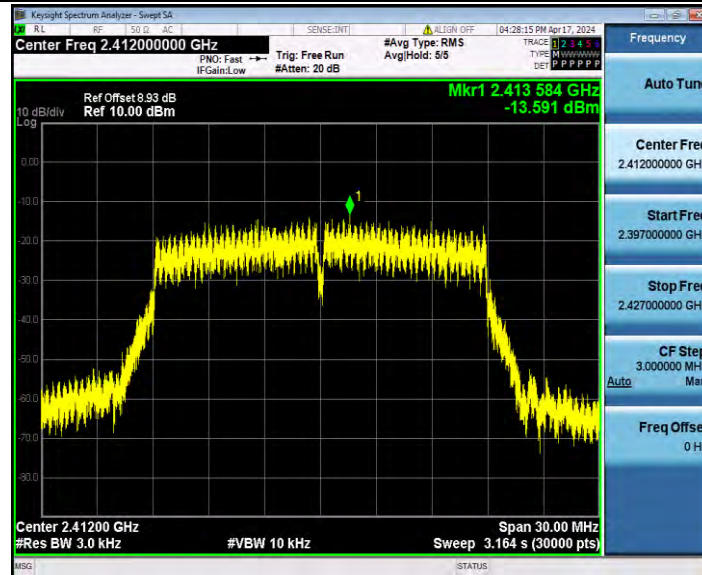
11G_Ant1_2437



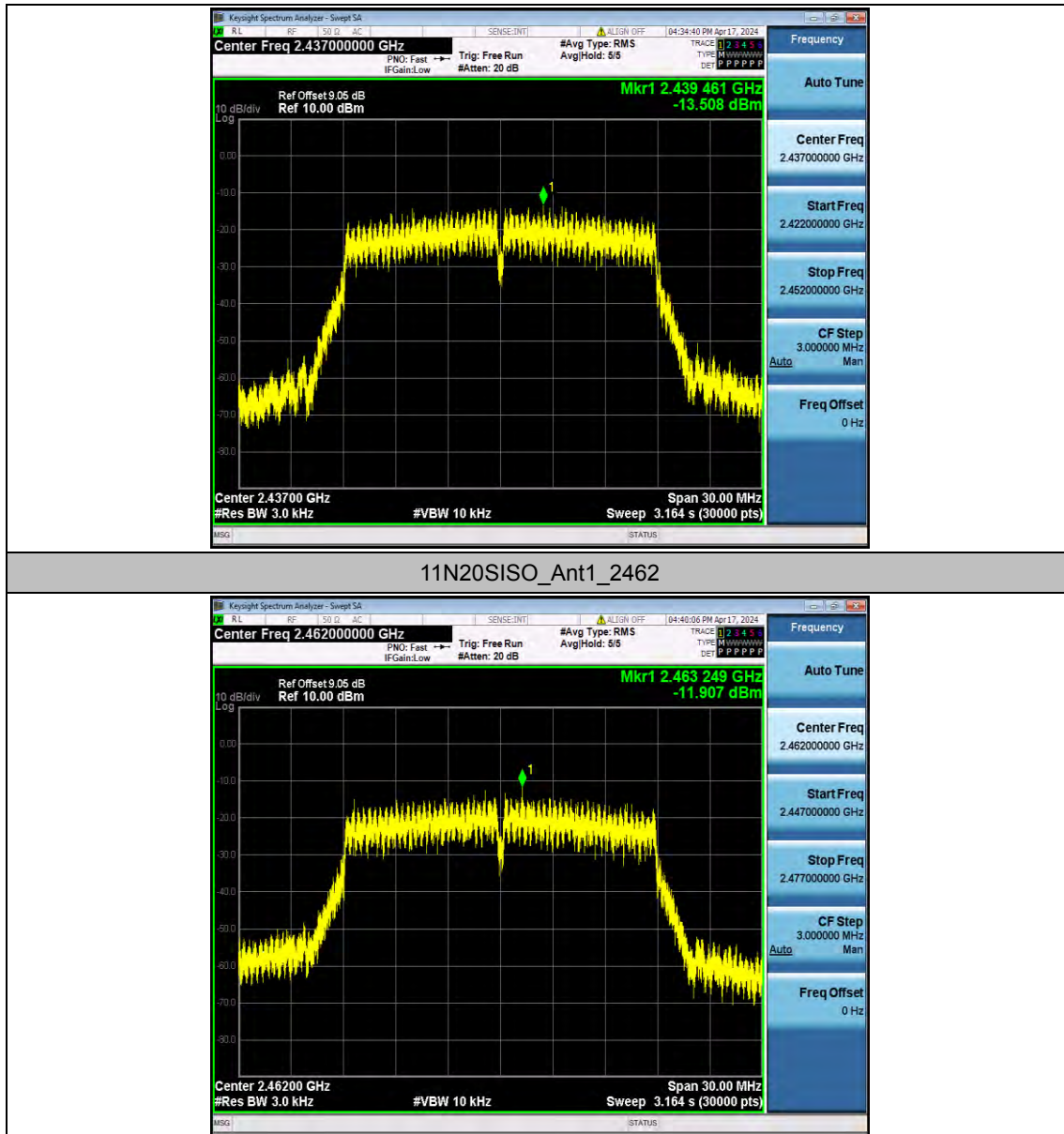
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



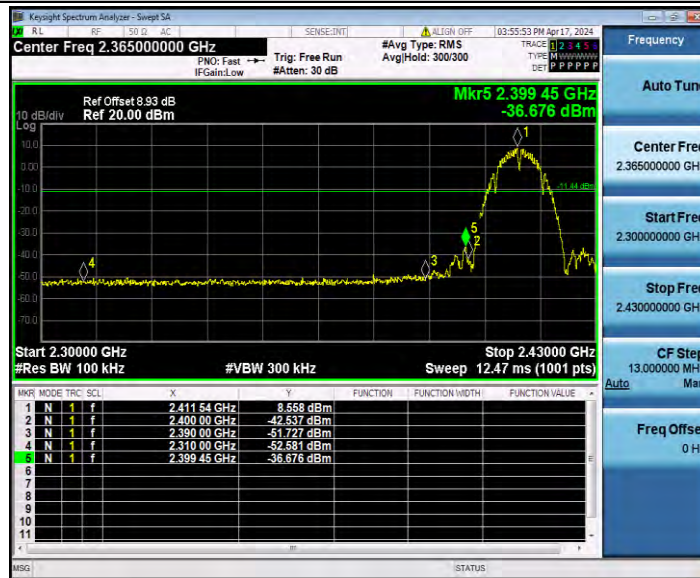
Appendix C.5: Band edge measurements

Test Result

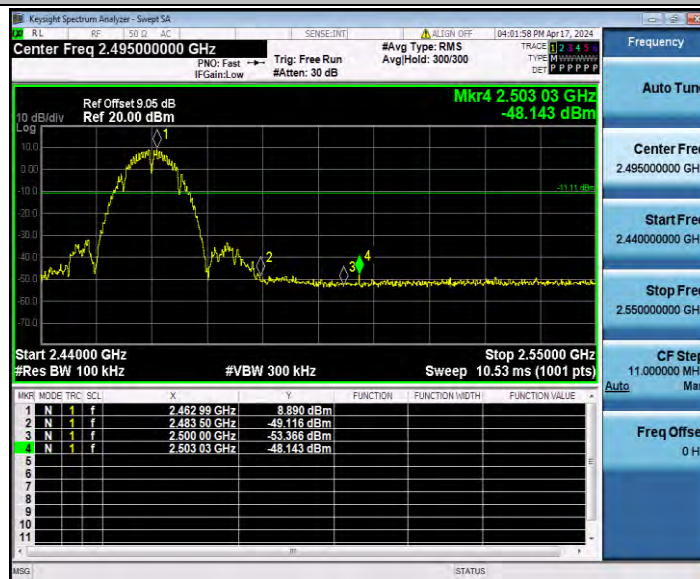
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.56	-36.68	≤ -11.44	PASS
		High	2462	8.89	-48.14	≤ -11.11	PASS
11G	Ant1	Low	2412	1.15	-35.39	≤ -18.85	PASS
		High	2462	1.84	-48.56	≤ -18.16	PASS
11N20SISO	Ant1	Low	2412	0.63	-36.24	≤ -19.37	PASS
		High	2462	1.87	-48.43	≤ -18.13	PASS

Test Graphs

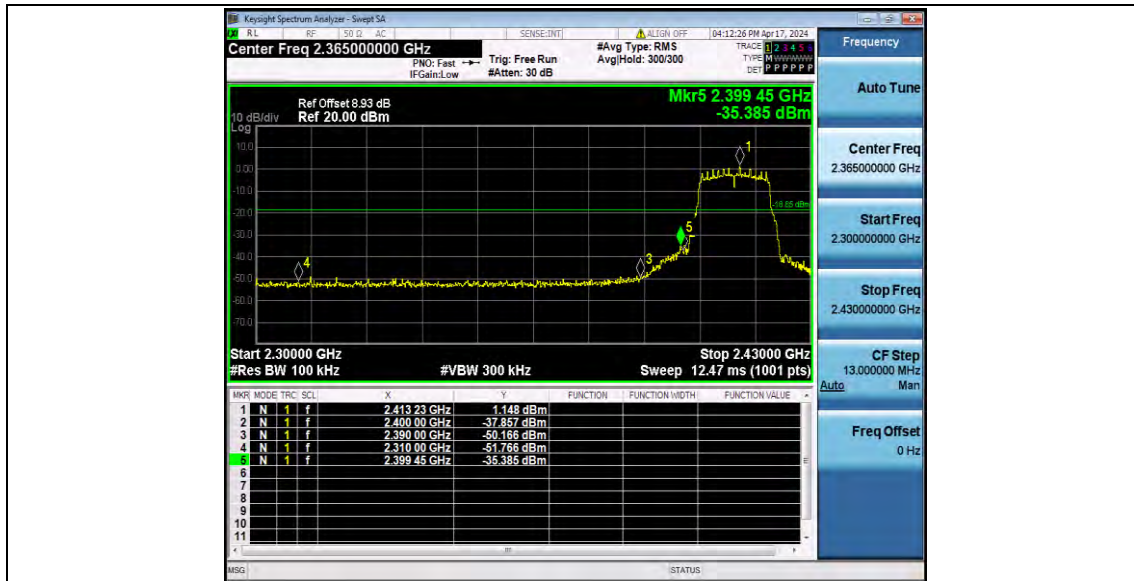
11B_Ant1_Low_2412



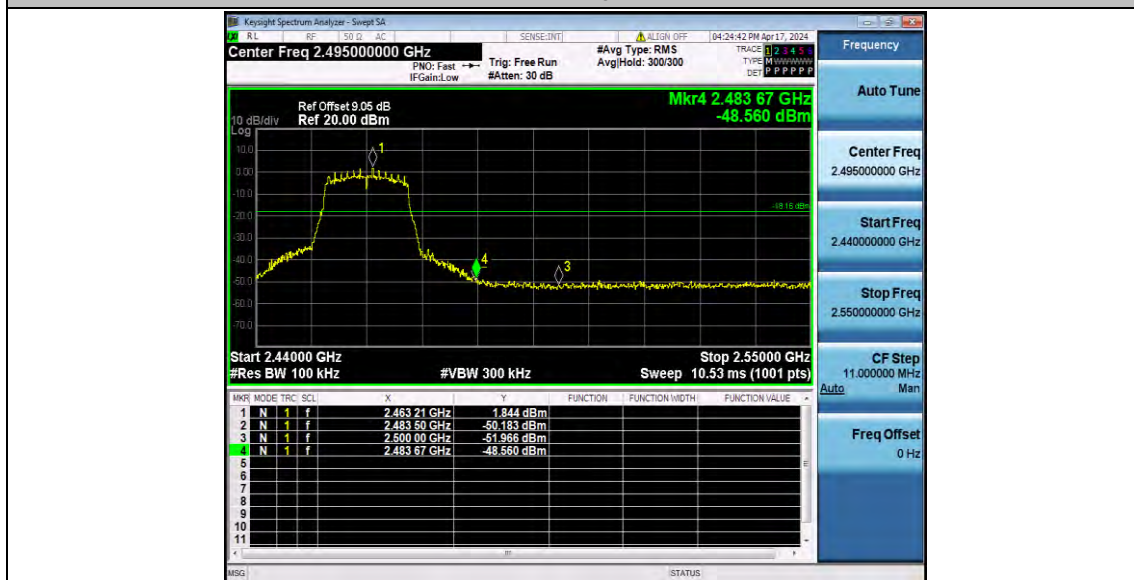
11B_Ant1_High_2462



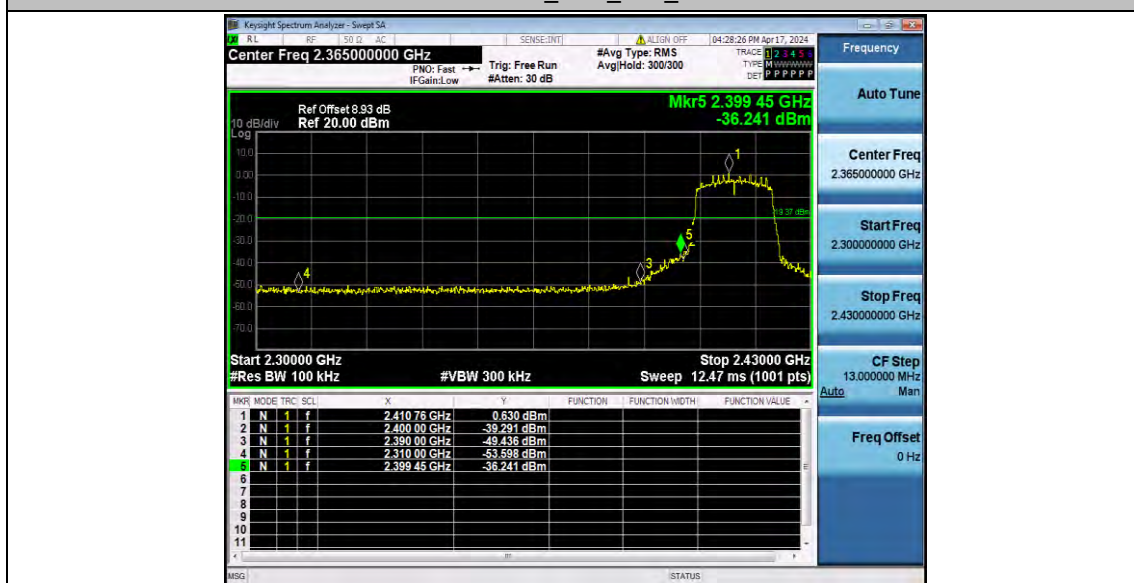
11G_Ant1_Low_2412



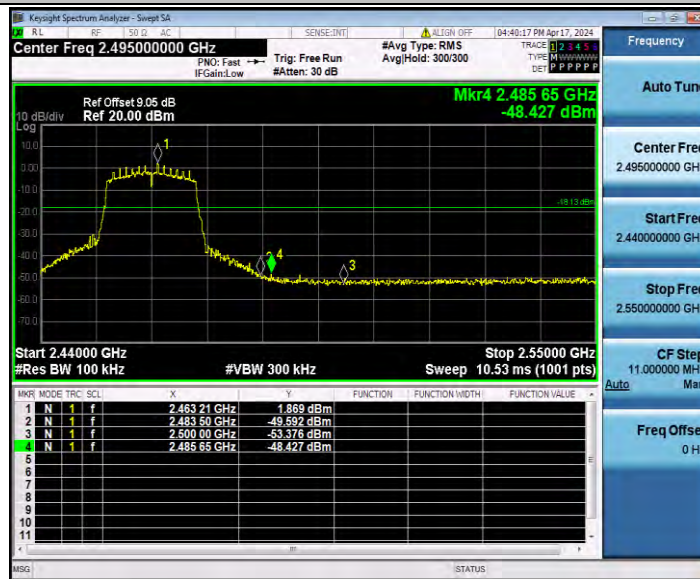
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

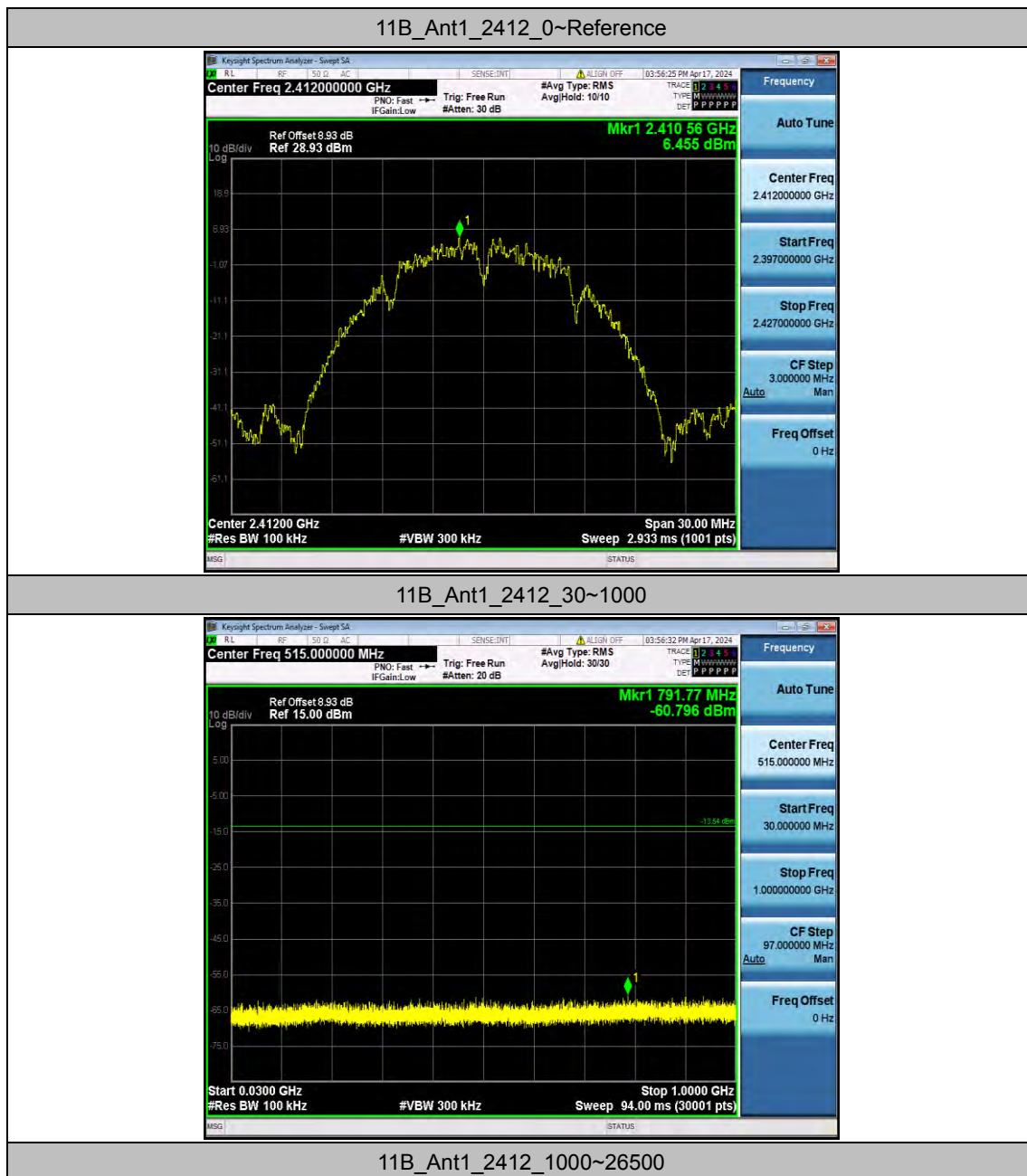


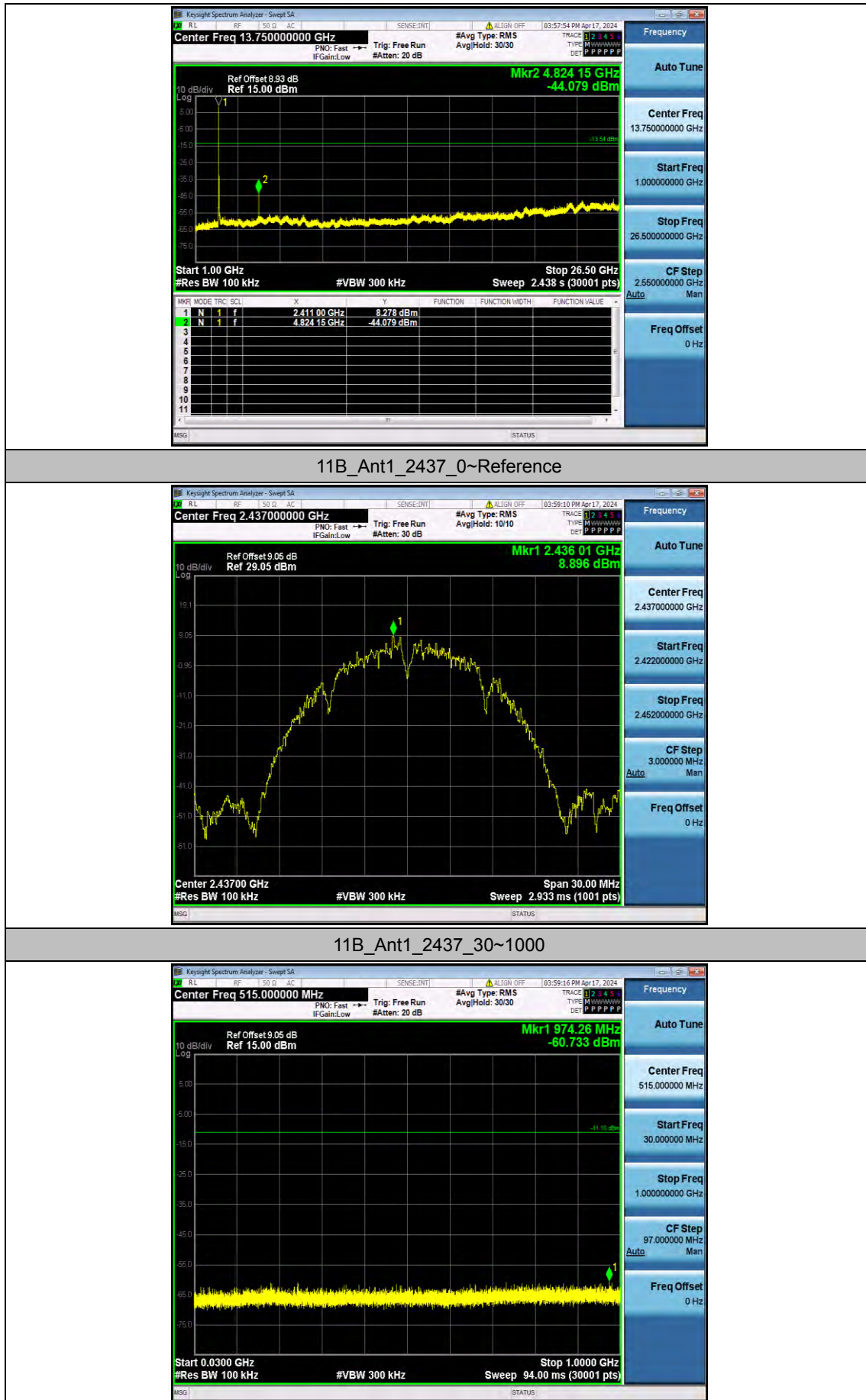
Appendix C.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.46	6.46	---	PASS
			30~1000	6.46	-60.8	≤ -13.54	PASS
			1000~26500	6.46	-44.08	≤ -13.54	PASS
		2437	Reference	8.90	8.90	---	PASS
			30~1000	8.90	-60.73	≤ -11.1	PASS
			1000~26500	8.90	-44.85	≤ -11.1	PASS
		2462	Reference	6.91	6.91	---	PASS
			30~1000	6.91	-61.13	≤ -13.09	PASS
			1000~26500	6.91	-42.78	≤ -13.09	PASS
11G	Ant1	2412	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-59.03	≤ -22.49	PASS
			1000~26500	-2.49	-47.41	≤ -22.49	PASS
		2437	Reference	0.74	0.74	---	PASS
			30~1000	0.74	-60.8	≤ -19.26	PASS
			1000~26500	0.74	-47.27	≤ -19.26	PASS
		2462	Reference	-1.79	-1.79	---	PASS
			30~1000	-1.79	-60.03	≤ -21.79	PASS
			1000~26500	-1.79	-47.94	≤ -21.79	PASS
11N20SISO	Ant1	2412	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-60.21	≤ -20.58	PASS
			1000~26500	-0.58	-47.61	≤ -20.58	PASS
		2437	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-60.44	≤ -20.05	PASS
			1000~26500	-0.05	-47.67	≤ -20.05	PASS
		2462	Reference	-1.82	-1.82	---	PASS
			30~1000	-1.82	-60.19	≤ -21.82	PASS
			1000~26500	-1.82	-47.89	≤ -21.82	PASS

Test Graphs





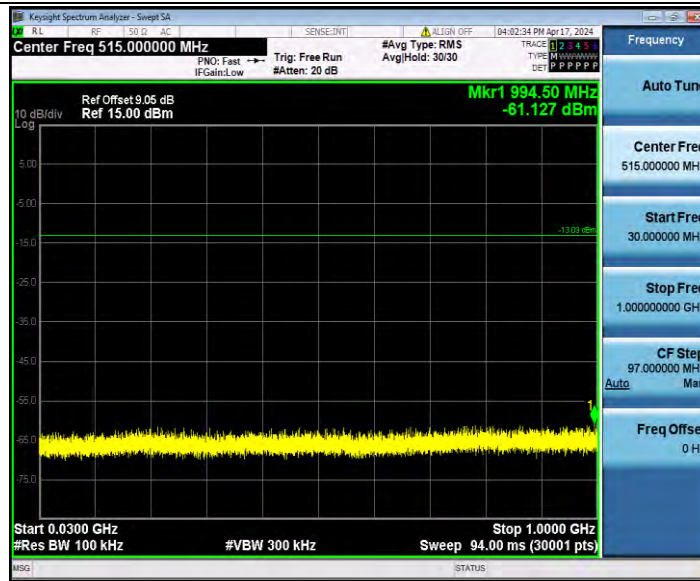
11B_Ant1_2437_1000~26500



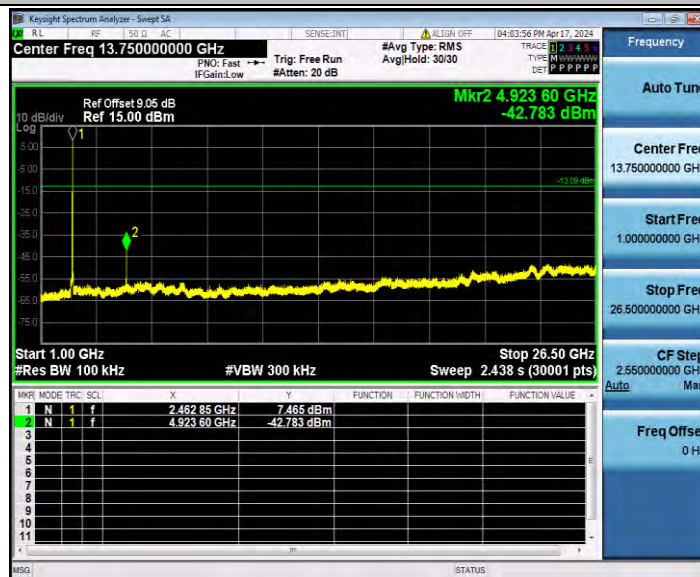
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



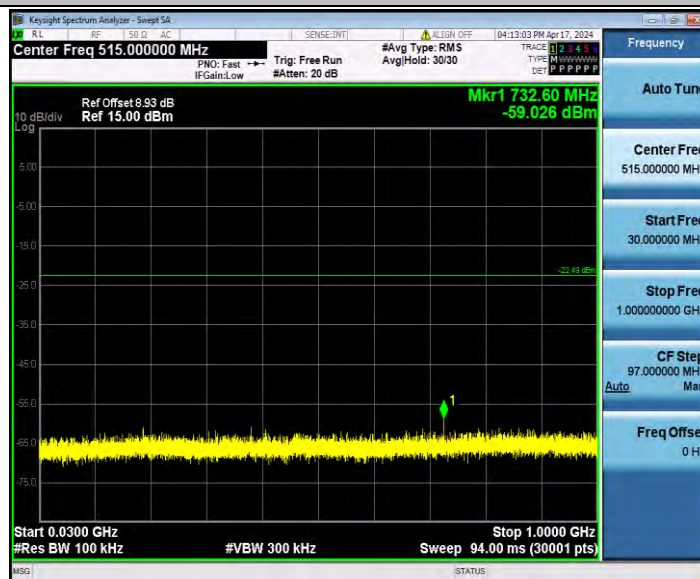
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



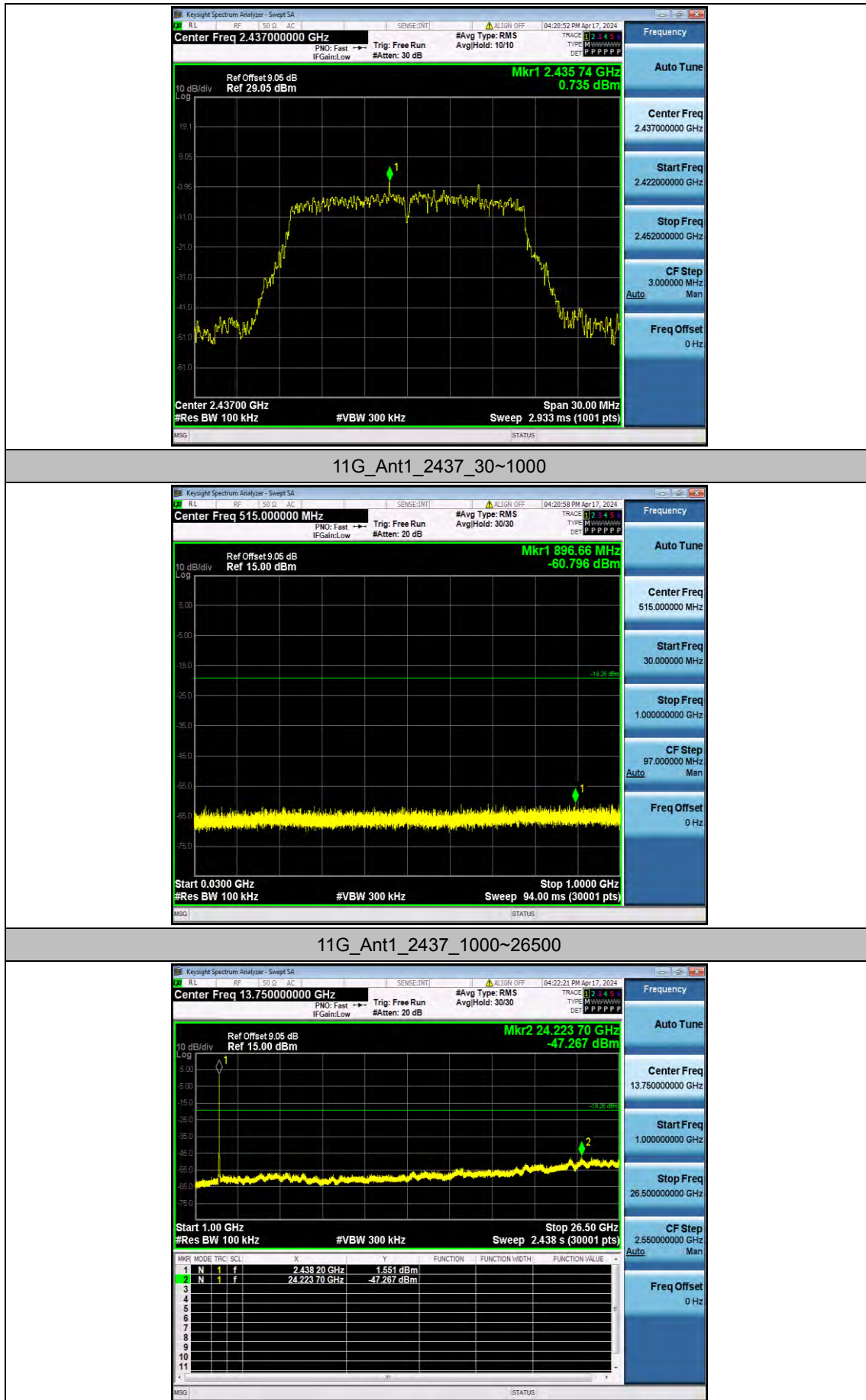
11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



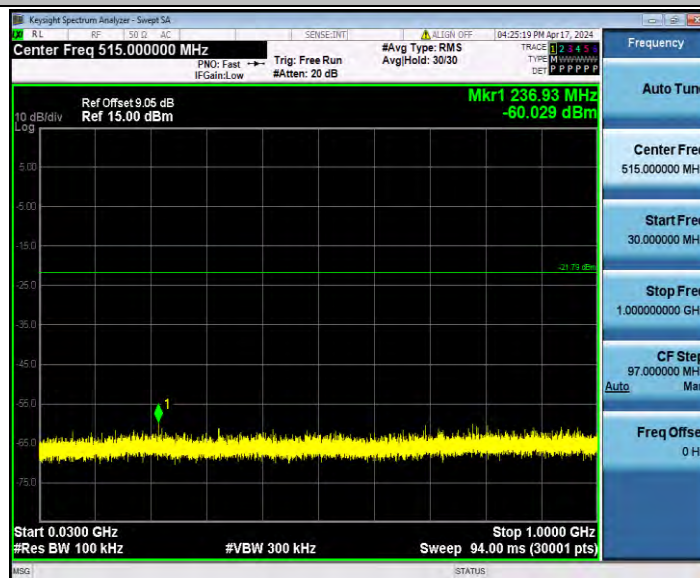
11G_Ant1_2437_0~Reference



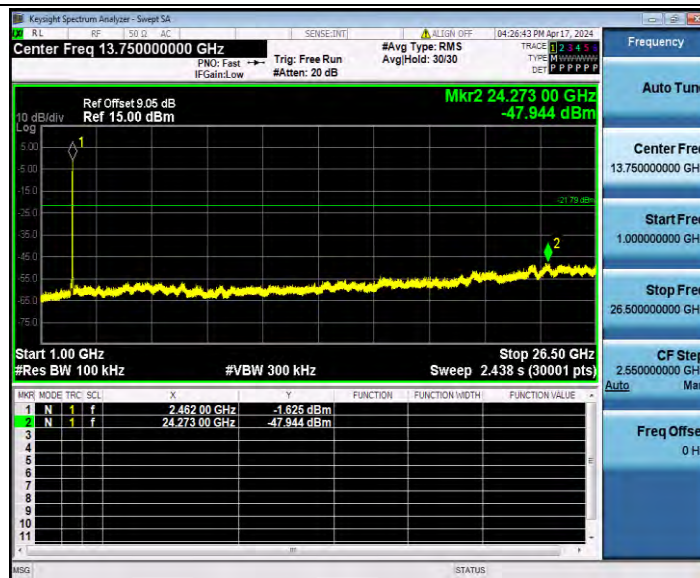
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



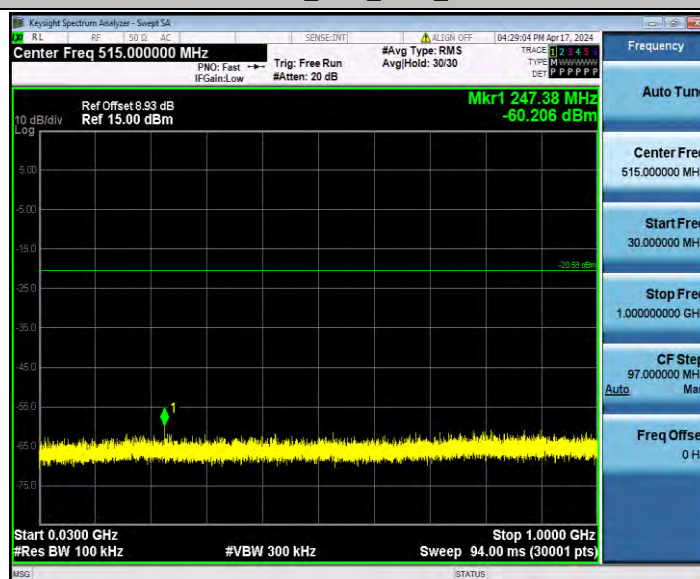
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



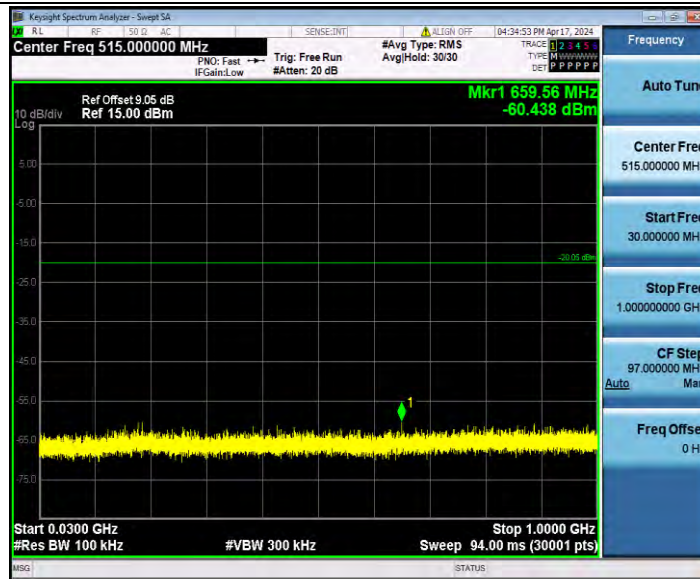
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



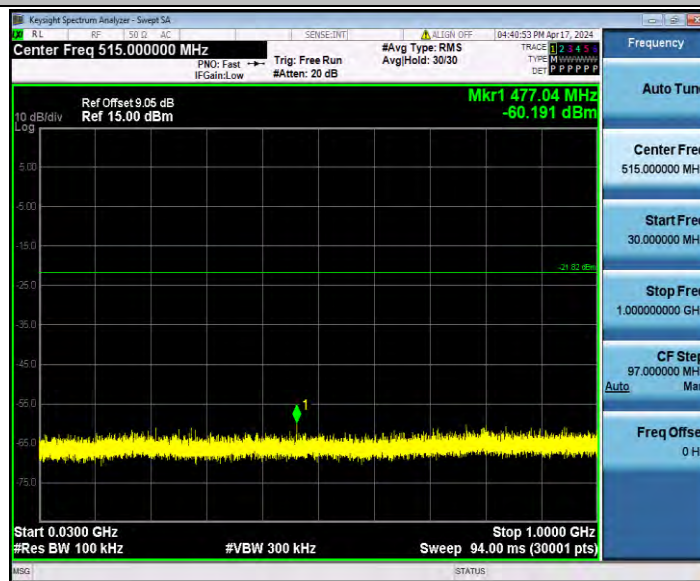
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



Appendix C.7: Emissions in Restricted Bands

Test Result

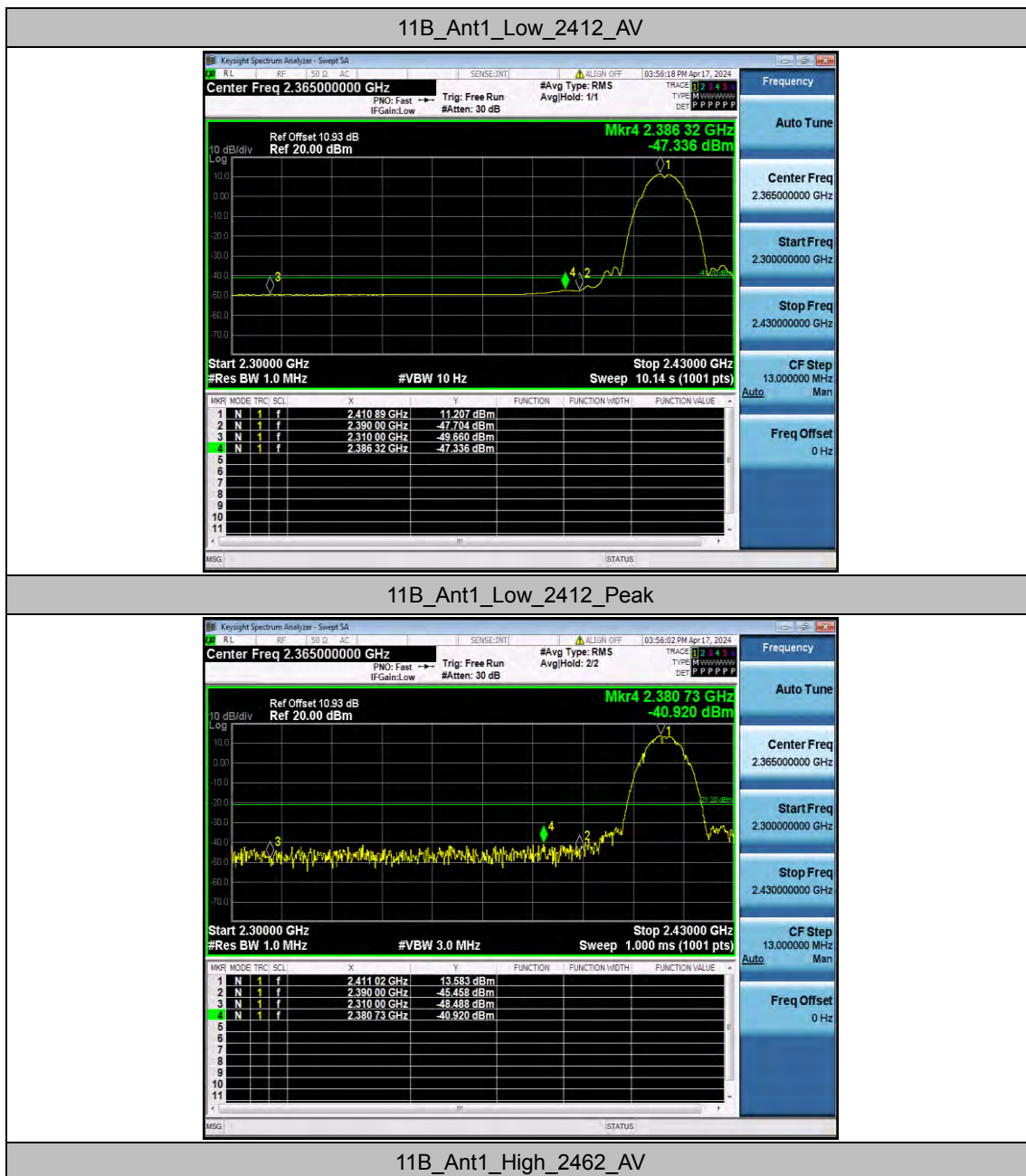
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.66	≤-41.20	45.54	≤54	PASS
				AV	2386.320	-47.34	≤-41.20	47.86	≤54	PASS
				AV	2390.000	-47.7	≤-41.20	47.50	≤54	PASS
				Peak	2310.000	-48.49	≤-21.20	46.71	≤74	PASS
				Peak	2380.730	-40.92	≤-21.20	54.28	≤74	PASS
				Peak	2390.000	-45.46	≤-21.20	49.74	≤74	PASS
		High	2462	AV	2483.500	-45.83	≤-41.20	49.37	≤54	PASS
				AV	2483.560	-46.05	≤-41.20	49.15	≤54	PASS
				AV	2500.000	-48.96	≤-41.20	46.24	≤54	PASS
				Peak	2483.500	-43.56	≤-21.20	51.64	≤74	PASS
				Peak	2488.950	-39.87	≤-21.20	55.33	≤74	PASS
				Peak	2500.000	-48.5	≤-21.20	46.70	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.7	≤-41.20	45.50	≤54	PASS
				AV	2389.960	-46.78	≤-41.20	48.42	≤54	PASS
				AV	2390.000	-46.78	≤-41.20	48.42	≤54	PASS
				Peak	2310.000	-45.17	≤-21.20	50.03	≤74	PASS
				Peak	2385.930	-39.5	≤-21.20	55.70	≤74	PASS
				Peak	2390.000	-43.58	≤-21.20	51.62	≤74	PASS
		High	2462	AV	2483.500	-46.43	≤-41.20	48.77	≤54	PASS
				AV	2483.560	-46.53	≤-41.20	48.67	≤54	PASS
				AV	2500.000	-48.94	≤-41.20	46.26	≤54	PASS
				Peak	2483.500	-40.22	≤-21.20	54.98	≤74	PASS
				Peak	2488.840	-40.04	≤-21.20	55.16	≤74	PASS
				Peak	2500.000	-45.33	≤-21.20	49.87	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.66	≤-41.20	45.54	≤54	PASS
				AV	2389.960	-46.1	≤-41.20	49.10	≤54	PASS
				AV	2390.000	-46.1	≤-41.20	49.10	≤54	PASS
				Peak	2310.000	-48.88	≤-21.20	46.32	≤74	PASS
				Peak	2387.880	-39.37	≤-21.20	55.83	≤74	PASS
				Peak	2390.000	-40.87	≤-21.20	54.33	≤74	PASS
		High	2462	AV	2483.500	-45.95	≤-41.20	49.25	≤54	PASS
				AV	2483.560	-46.05	≤-41.20	49.15	≤54	PASS
				AV	2500.000	-48.94	≤-41.20	46.26	≤54	PASS
				Peak	2483.500	-42.25	≤-21.20	52.95	≤74	PASS
				Peak	2484.880	-39.38	≤-21.20	55.82	≤74	PASS

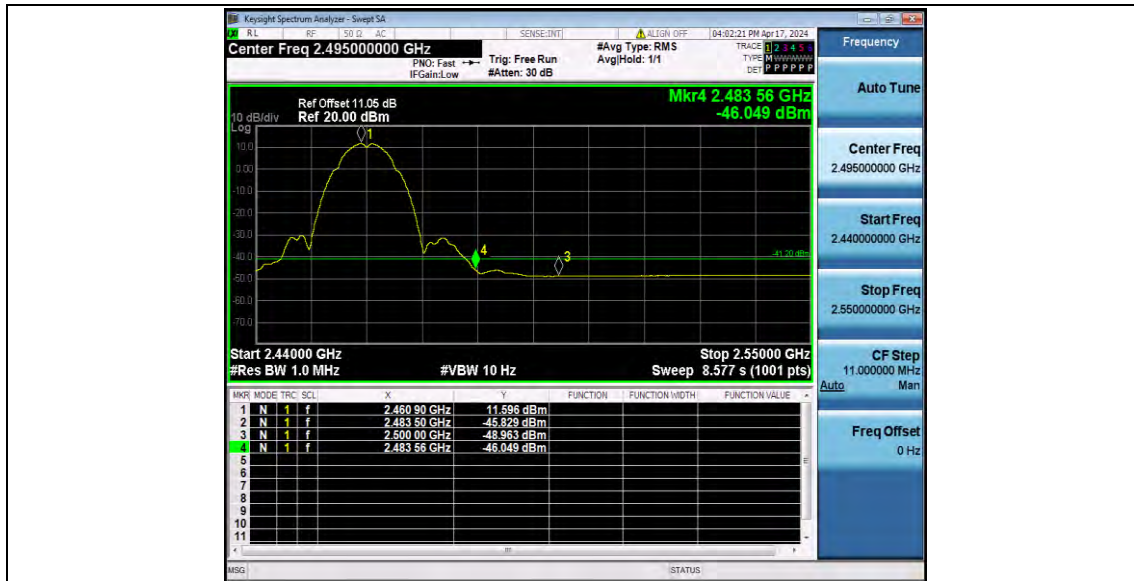
				Peak	2500.000	-46.76	≤-21.20	48.44	≤74	PASS
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Note:

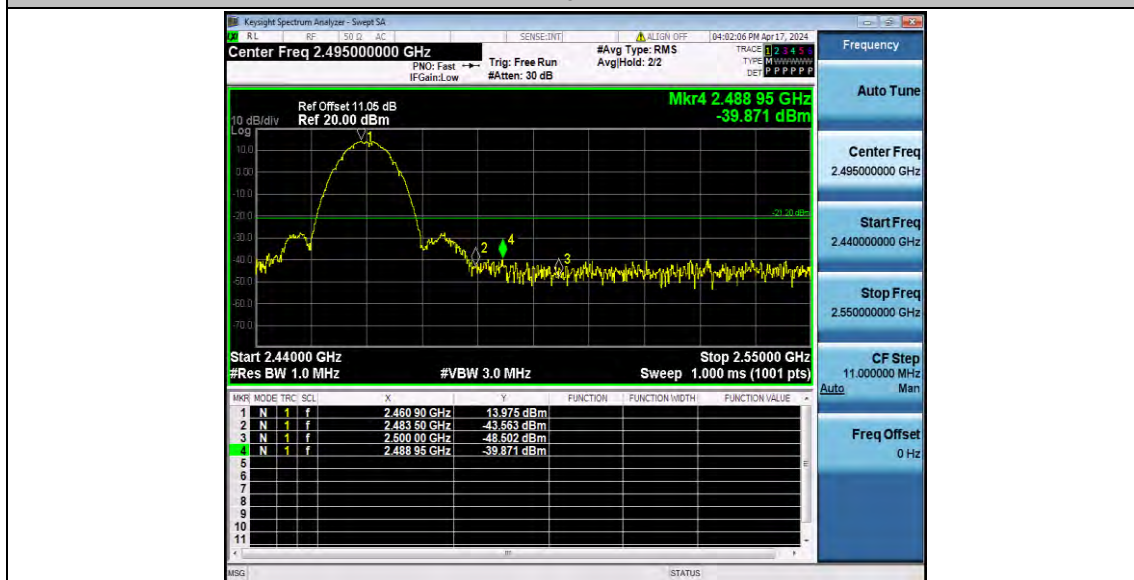
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

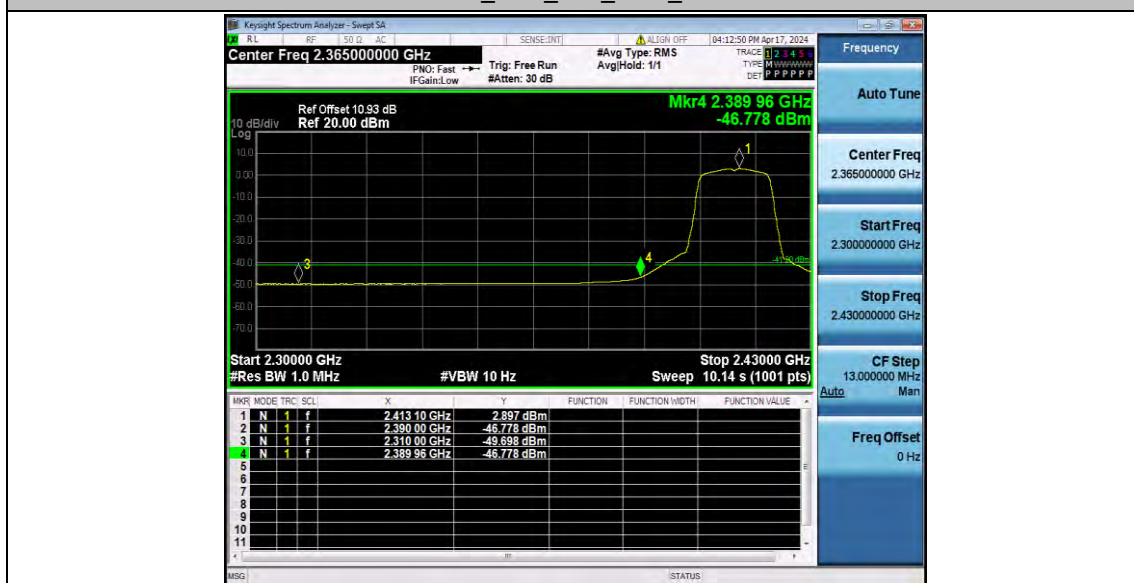




11B_Ant1_High_2462_Peak



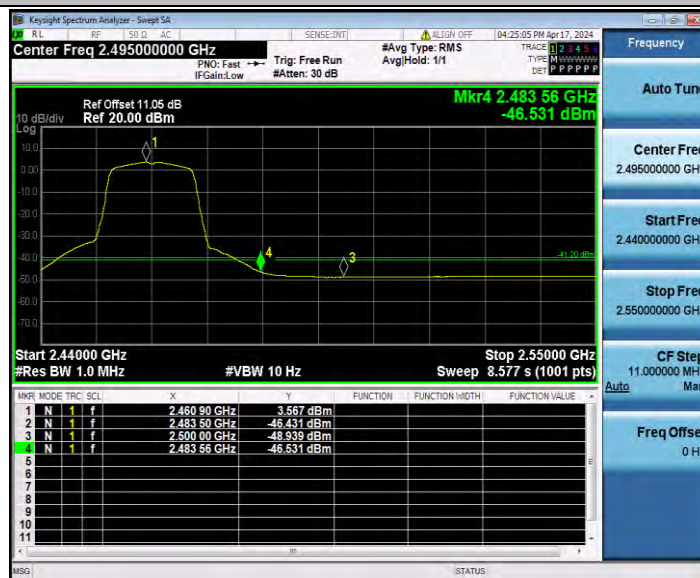
11G_Ant1_Low_2412_AV



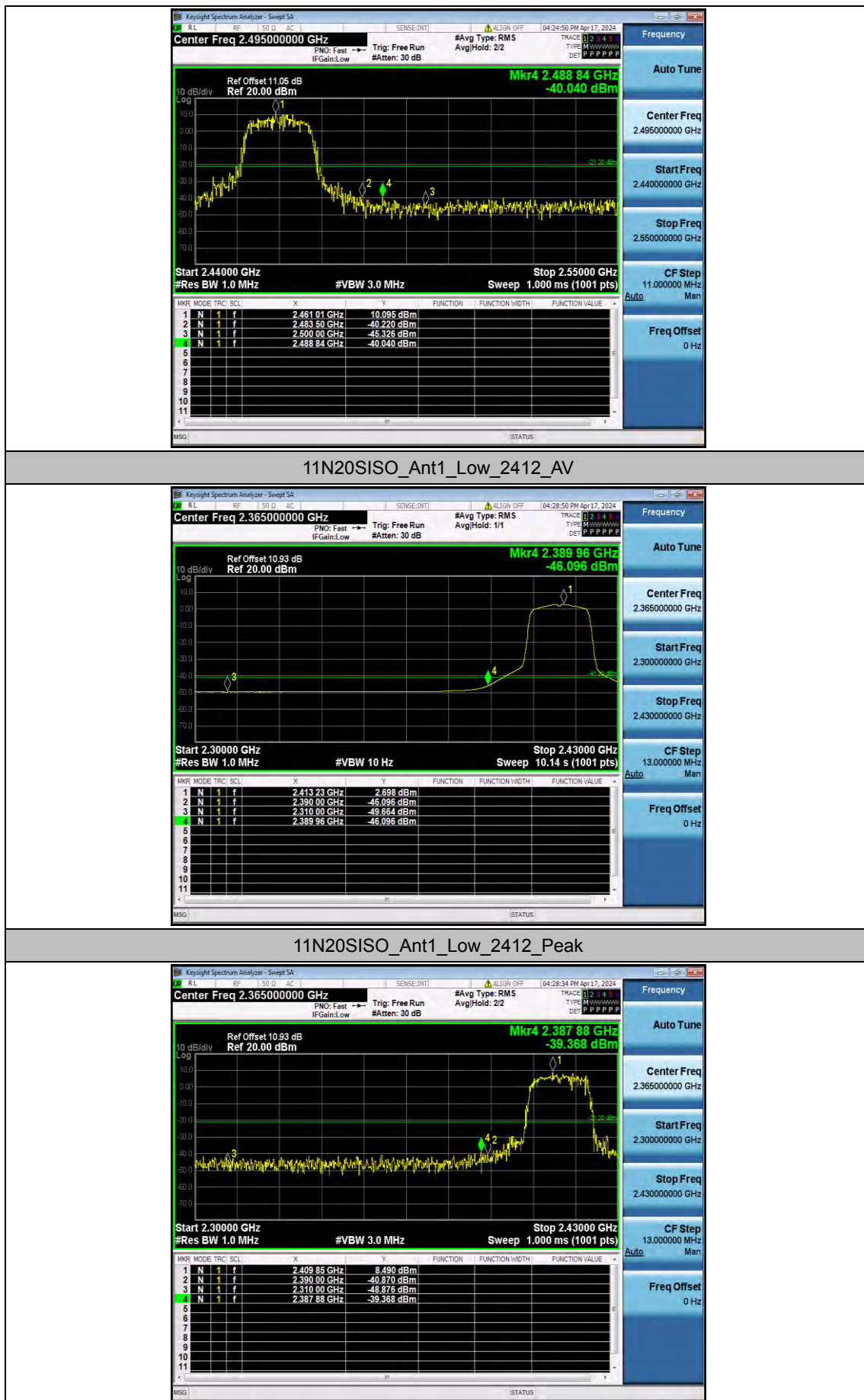
11G_Ant1_Low_2412_Peak



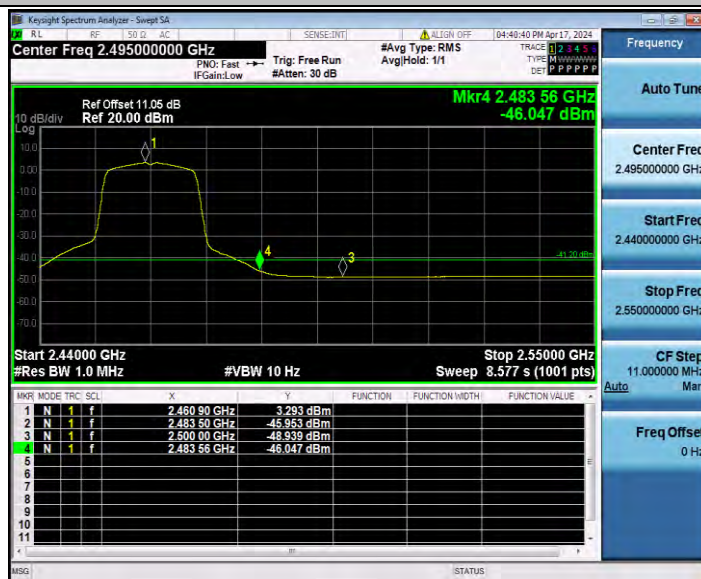
11G_Ant1_High_2462_AV



11G_Ant1_High_2462_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

