

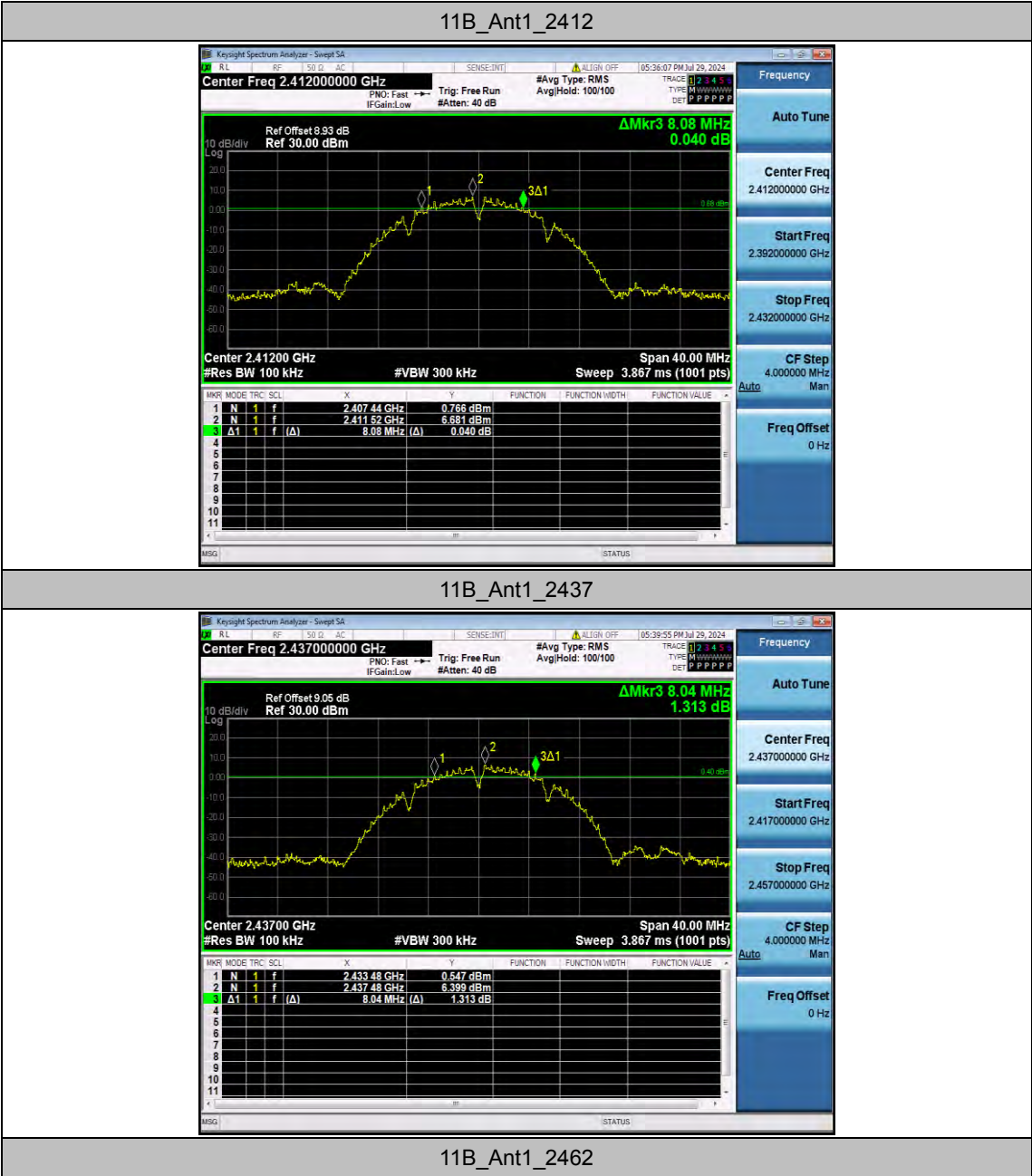
Case No. : <u>CTA24071501703</u>	
Ambient Condition: <u>24</u> °C, <u>52</u> %RH,	
Test Date: <u>2024.7.29</u>	Test Engineer: <u>Lushan Kong</u>

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	2407.440	2415.520	0.5	PASS
		2437	8.040	2433.480	2441.520	0.5	PASS
		2462	8.040	2457.440	2465.480	0.5	PASS
11G	Ant1	2412	15.960	2403.760	2419.720	0.5	PASS
		2437	15.200	2430.080	2445.280	0.5	PASS
		2462	15.200	2453.680	2468.880	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.120	2420.760	0.5	PASS
		2437	16.800	2429.120	2445.920	0.5	PASS
		2462	16.040	2453.080	2469.120	0.5	PASS

Test Graphs





11G_Ant1_2412



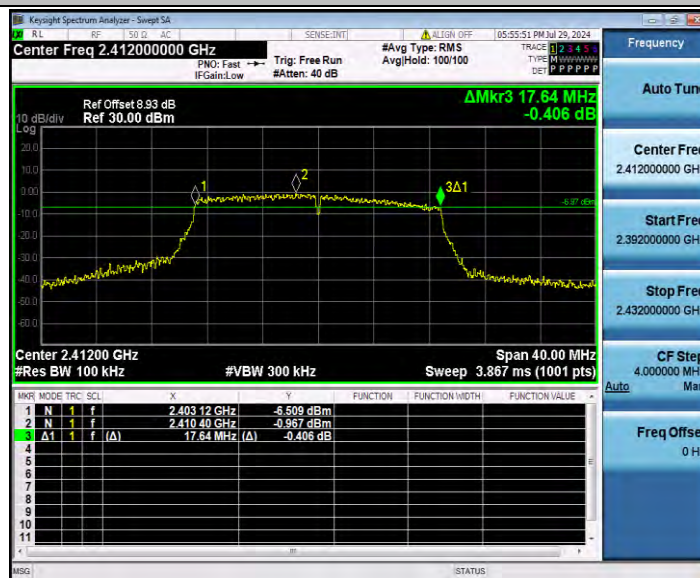
11G_Ant1_2437



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	13.287	2405.0659	2418.3529	---	---
		2437	13.309	2430.8249	2444.1339	---	---
		2462	13.559	2454.6680	2468.2270	---	---
11G	Ant1	2412	16.826	2403.3958	2420.2218	---	---
		2437	17.145	2428.9039	2446.0489	---	---
		2462	17.104	2453.0694	2470.1734	---	---
11N20SISO	Ant1	2412	17.846	2402.9255	2420.7715	---	---
		2437	17.973	2428.3214	2446.2944	---	---
		2462	17.950	2452.7008	2470.6508	---	---

Test Graphs

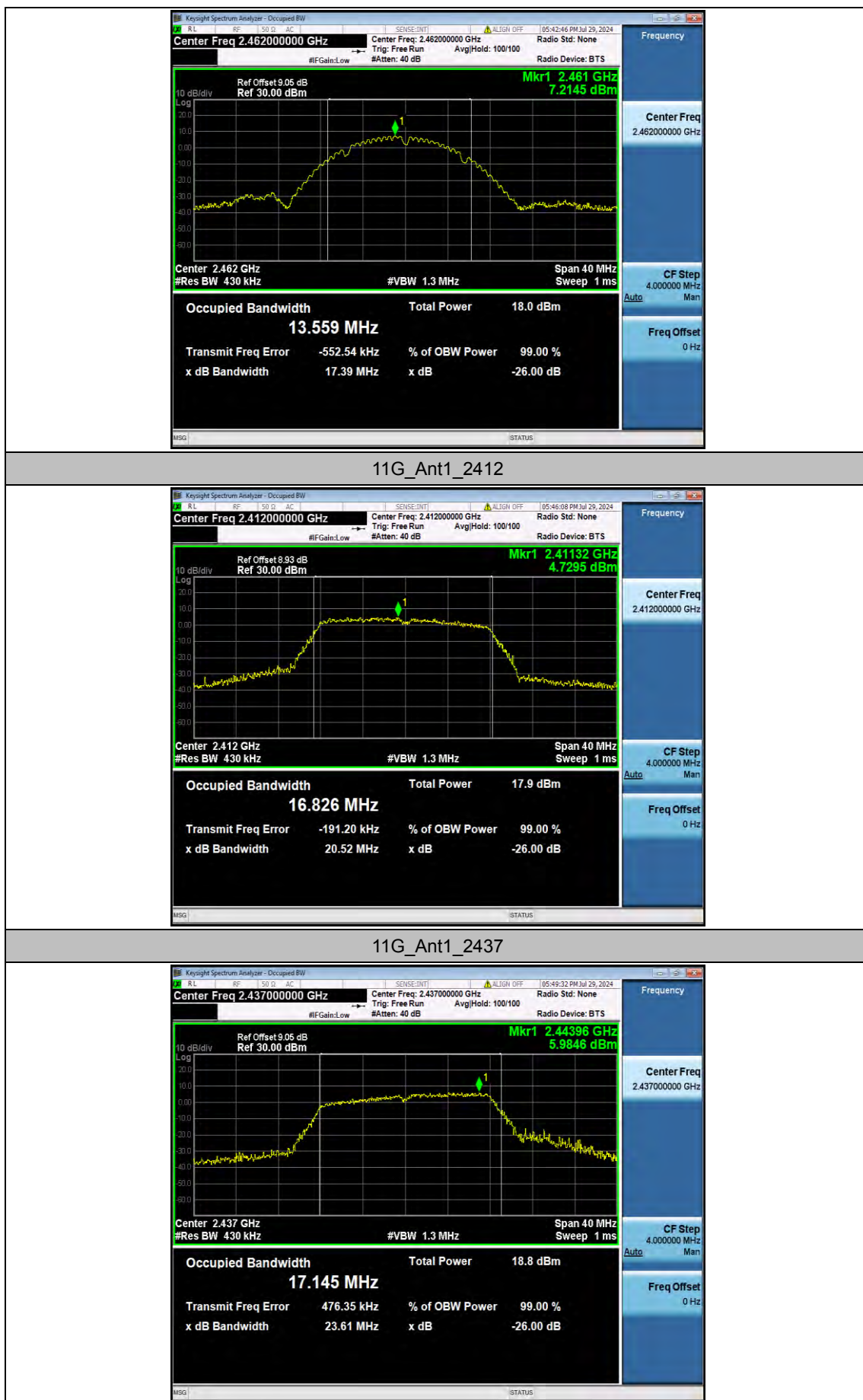
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



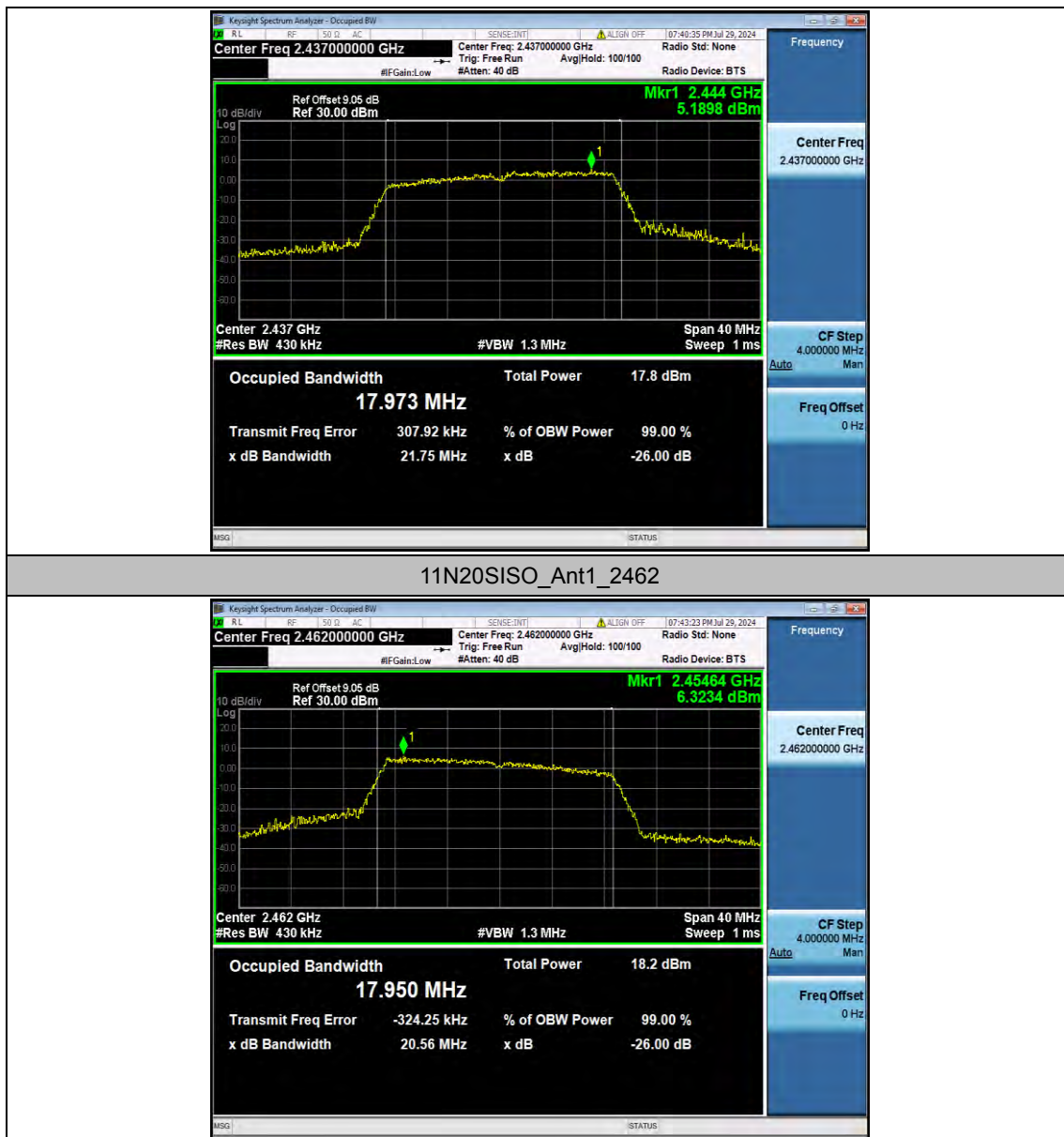
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix C.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	18.13	≤30.00	PASS
		2437	17.97	≤30.00	PASS
		2462	17.99	≤30.00	PASS
11G	Ant1	2412	19.17	≤30.00	PASS
		2437	19.97	≤30.00	PASS
		2462	19.67	≤30.00	PASS
11N20SISO	Ant1	2412	19.75	≤30.00	PASS
		2437	18.95	≤30.00	PASS
		2462	19.40	≤30.00	PASS

Appendix C.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.24	≤8.00	PASS
		2437	-5.94	≤8.00	PASS
		2462	-7.20	≤8.00	PASS
11G	Ant1	2412	-13.02	≤8.00	PASS
		2437	-11.96	≤8.00	PASS
		2462	-11.42	≤8.00	PASS
11N20SISO	Ant1	2412	-12.27	≤8.00	PASS
		2437	-12.81	≤8.00	PASS
		2462	-11.87	≤8.00	PASS

Test Graphs

11B_Ant1_2412



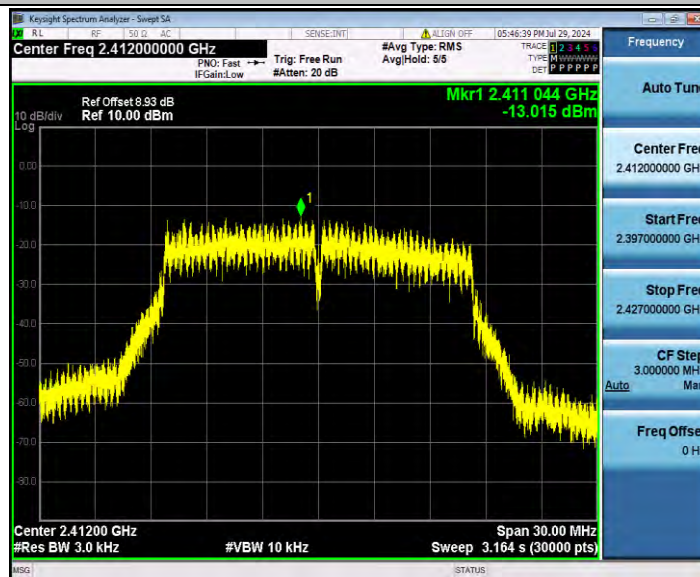
11B_Ant1_2437



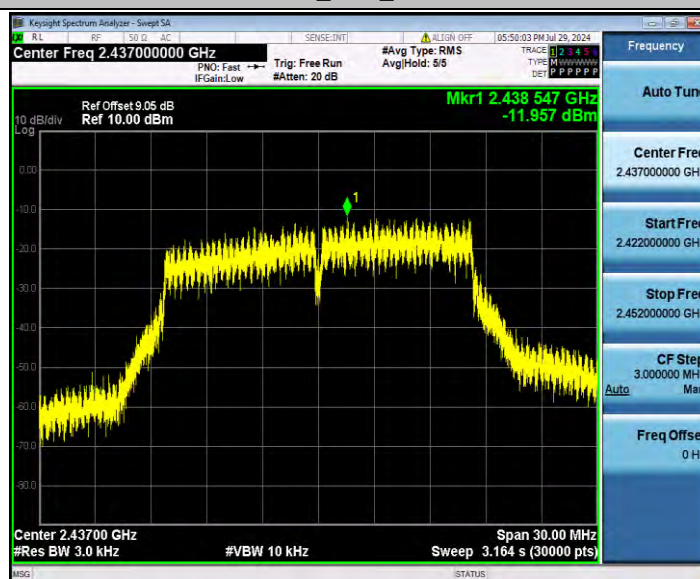
11B_Ant1_2462



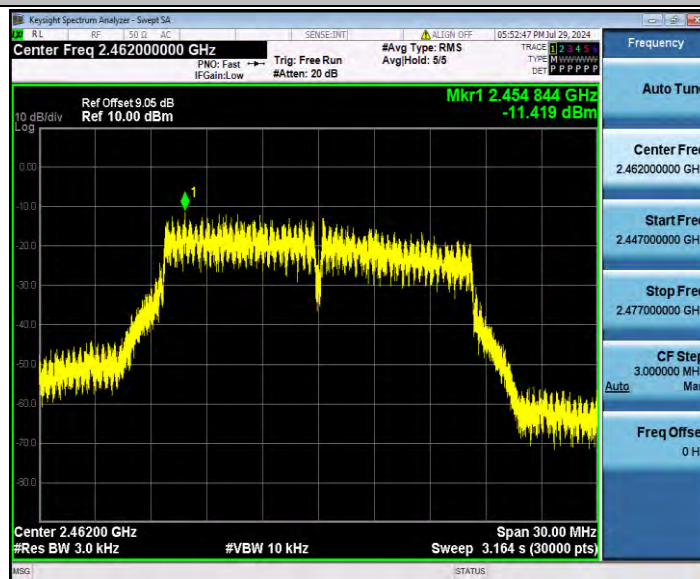
11G_Ant1_2412



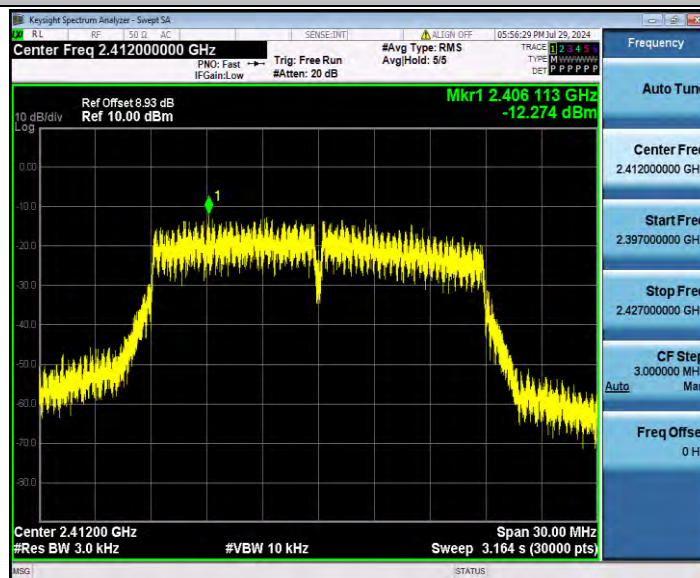
11G_Ant1_2437



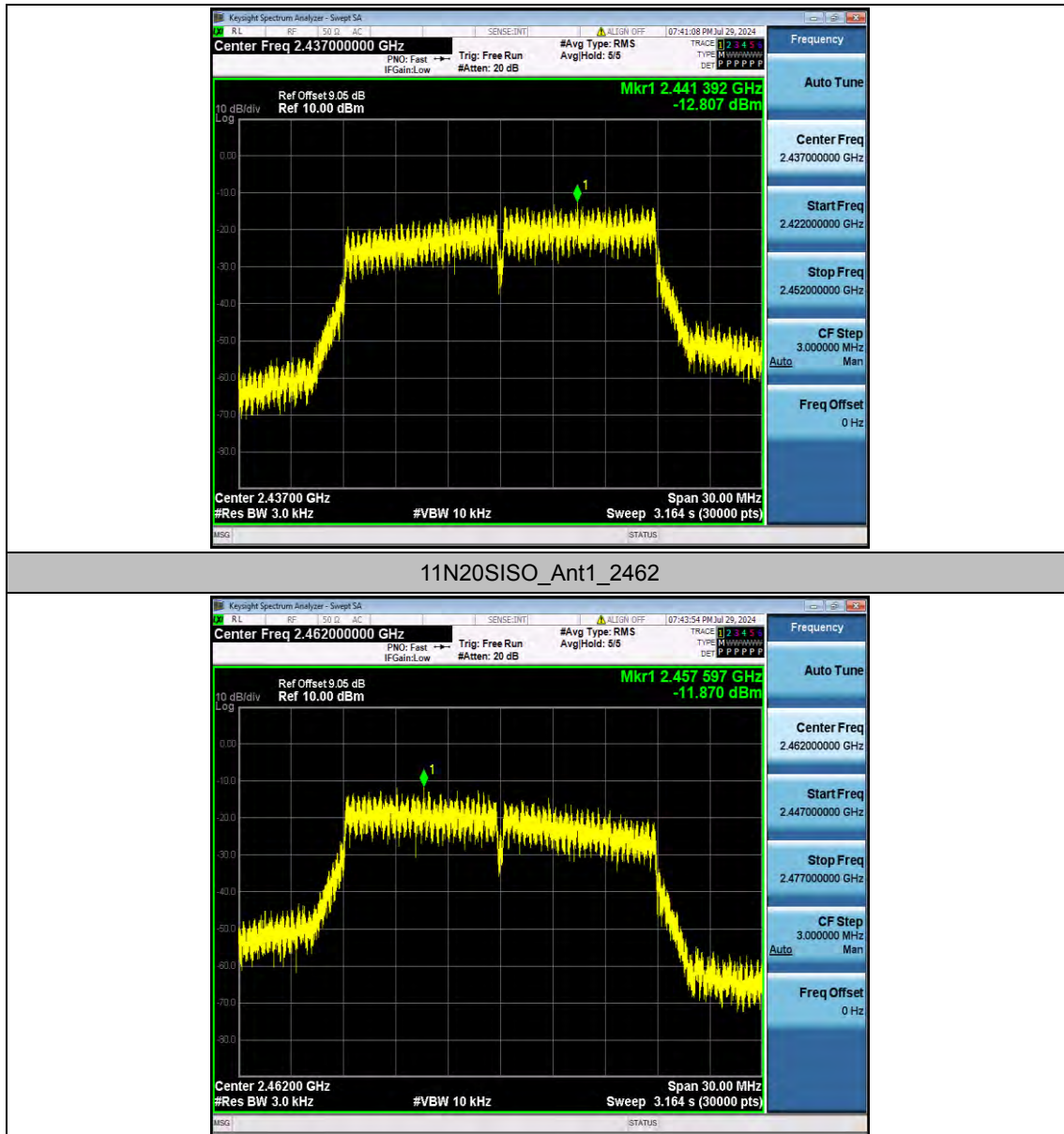
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



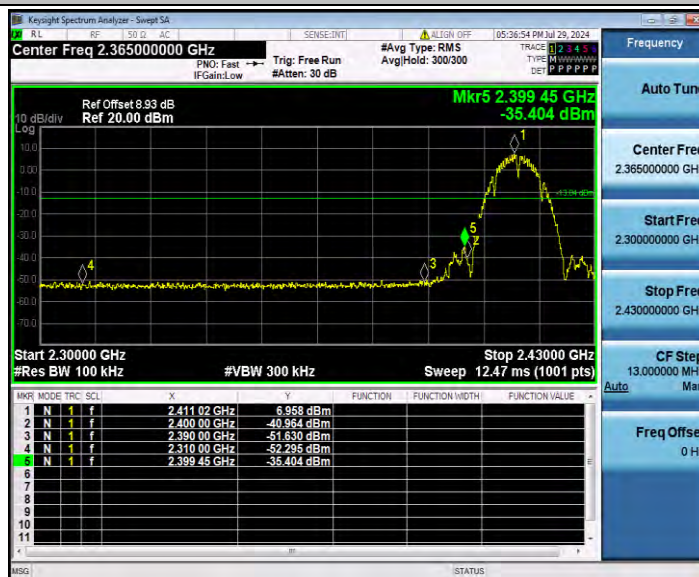
Appendix C.5: Band edge measurements

Test Result

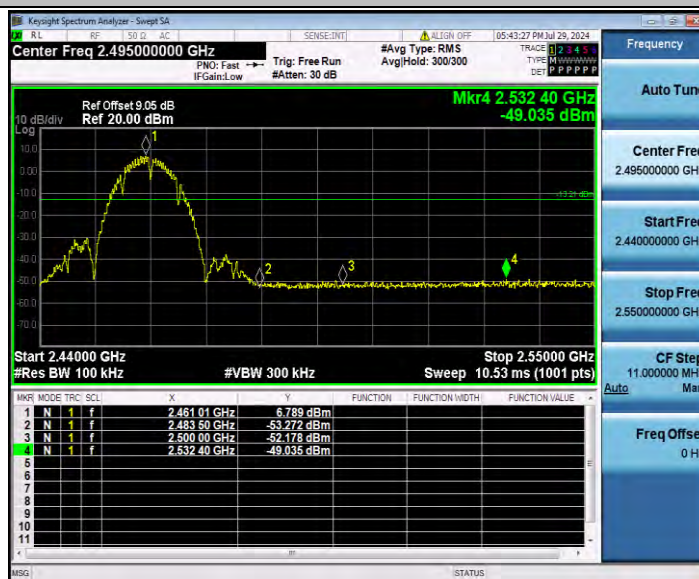
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.96	-35.4	≤ -13.04	PASS
		High	2462	6.79	-49.04	≤ -13.21	PASS
11G	Ant1	Low	2412	-0.99	-32.8	≤ -20.99	PASS
		High	2462	-0.31	-48.32	≤ -20.31	PASS
11N20SISO	Ant1	Low	2412	-0.49	-30.46	≤ -20.49	PASS
		High	2462	-0.69	-48.47	≤ -20.69	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



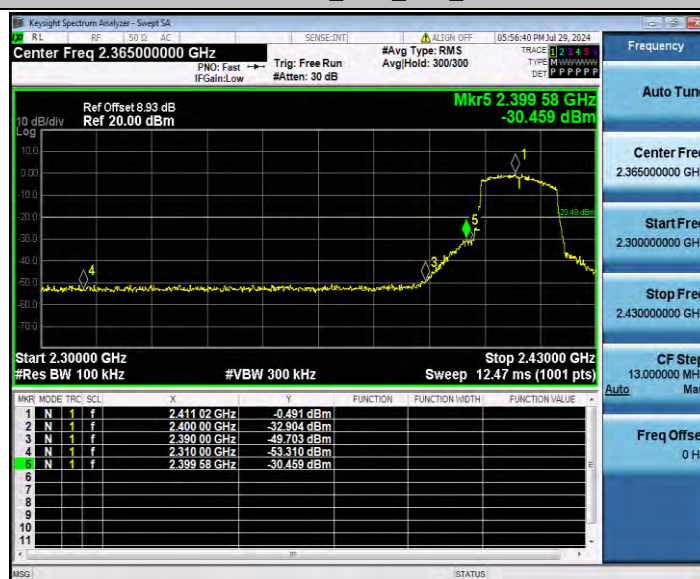
11G_Ant1_Low_2412

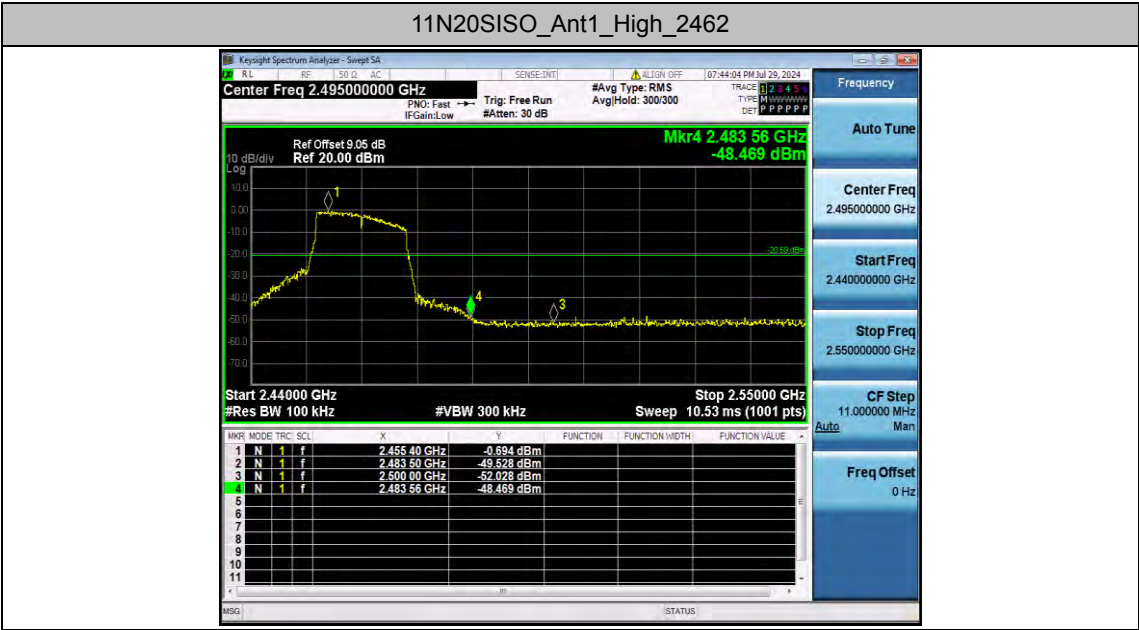


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



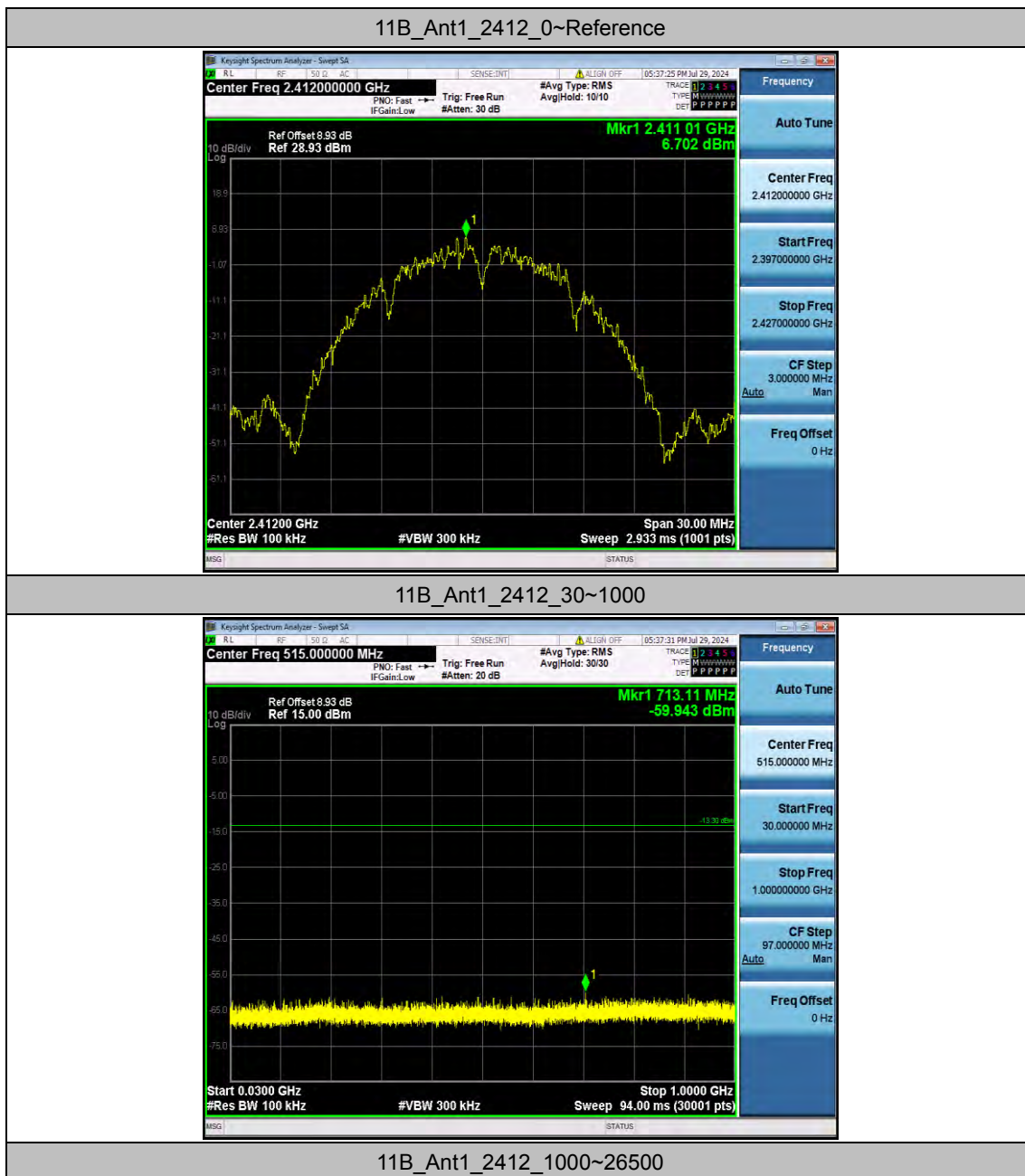


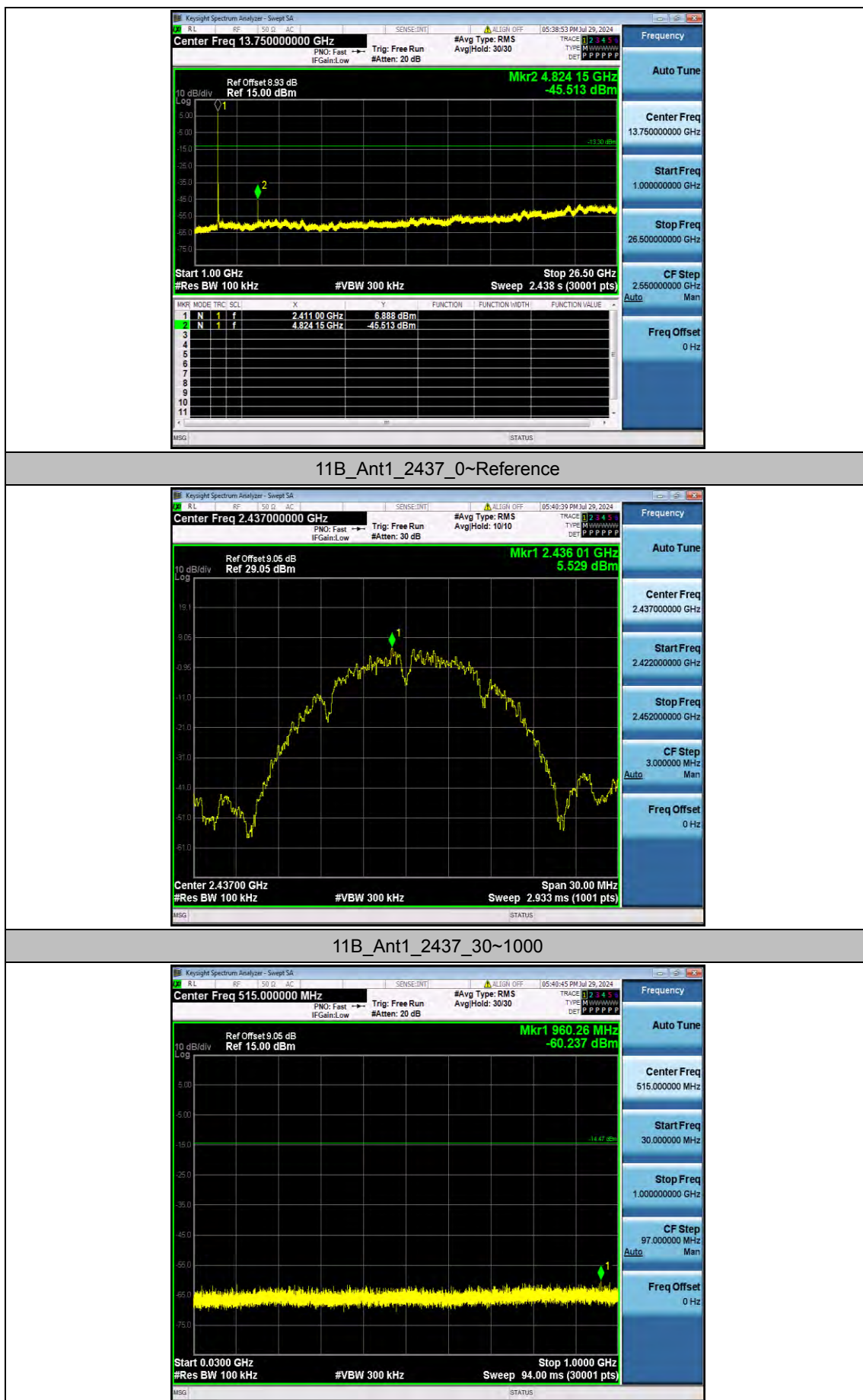
Appendix C.6: Conducted Spurious Emission

Test Result

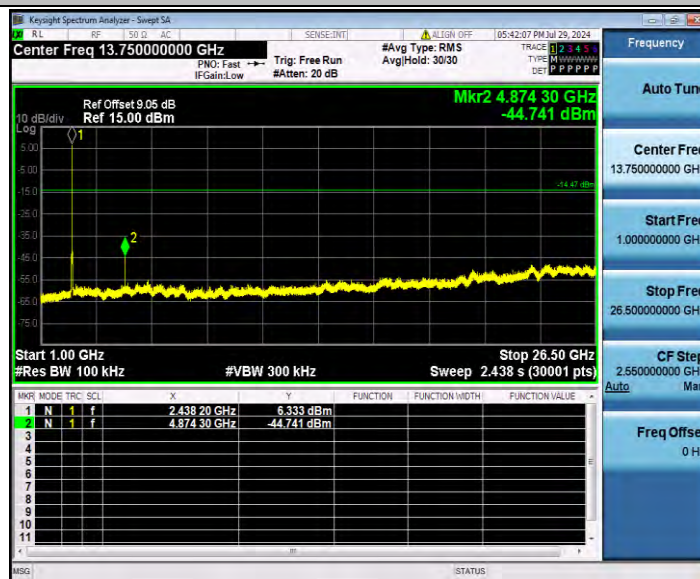
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.70	6.70	---	PASS
			30~1000	6.70	-59.94	≤ -13.3	PASS
			1000~26500	6.70	-45.51	≤ -13.3	PASS
		2437	Reference	5.53	5.53	---	PASS
			30~1000	5.53	-60.24	≤ -14.47	PASS
			1000~26500	5.53	-44.74	≤ -14.47	PASS
		2462	Reference	5.64	5.64	---	PASS
			30~1000	5.64	-60.24	≤ -14.36	PASS
			1000~26500	5.64	-45.53	≤ -14.36	PASS
11G	Ant1	2412	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-48.15	≤ -21.86	PASS
			1000~26500	-1.86	-47.69	≤ -21.86	PASS
		2437	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-60.3	≤ -20.55	PASS
			1000~26500	-0.55	-47.51	≤ -20.55	PASS
		2462	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-60.21	≤ -20.95	PASS
			1000~26500	-0.95	-47.37	≤ -20.95	PASS
11N20SISO	Ant1	2412	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-60.83	≤ -21.45	PASS
			1000~26500	-1.45	-47.71	≤ -21.45	PASS
		2437	Reference	-2.43	-2.43	---	PASS
			30~1000	-2.43	-56.46	≤ -22.43	PASS
			1000~26500	-2.43	-47.61	≤ -22.43	PASS
		2462	Reference	-1.55	-1.55	---	PASS
			30~1000	-1.55	-60.5	≤ -21.55	PASS
			1000~26500	-1.55	-46.87	≤ -21.55	PASS

Test Graphs





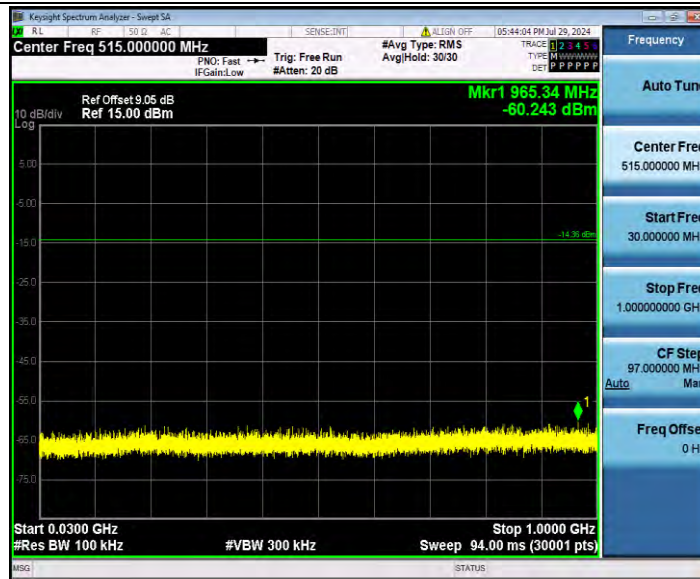
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



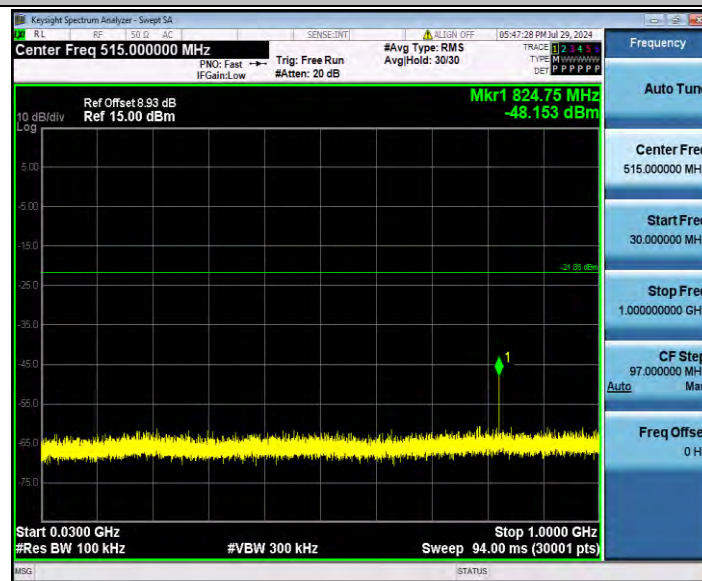
11B_Ant1_2462_1000~26500



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



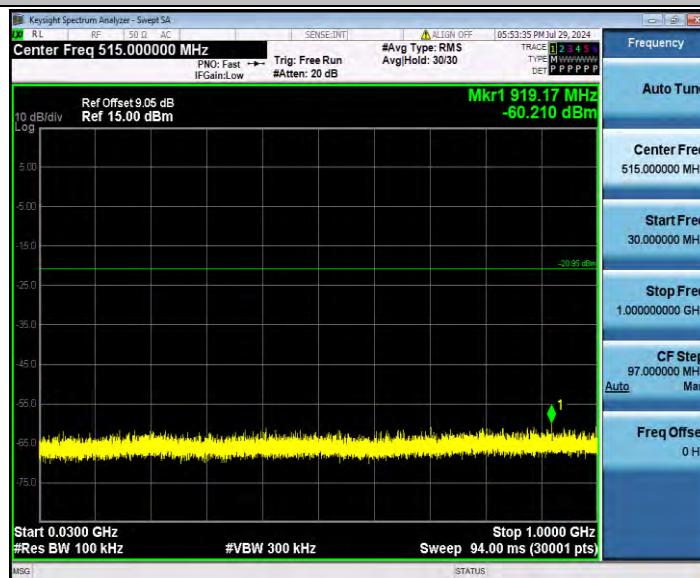
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



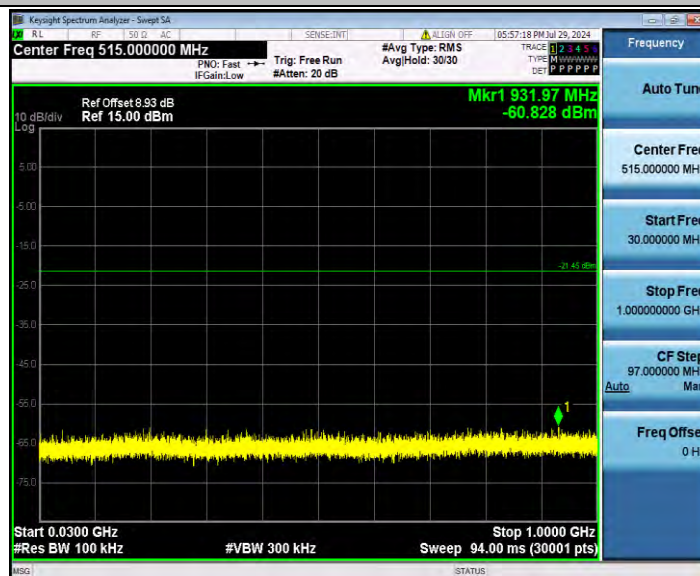
11G_Ant1_2462_1000~26500



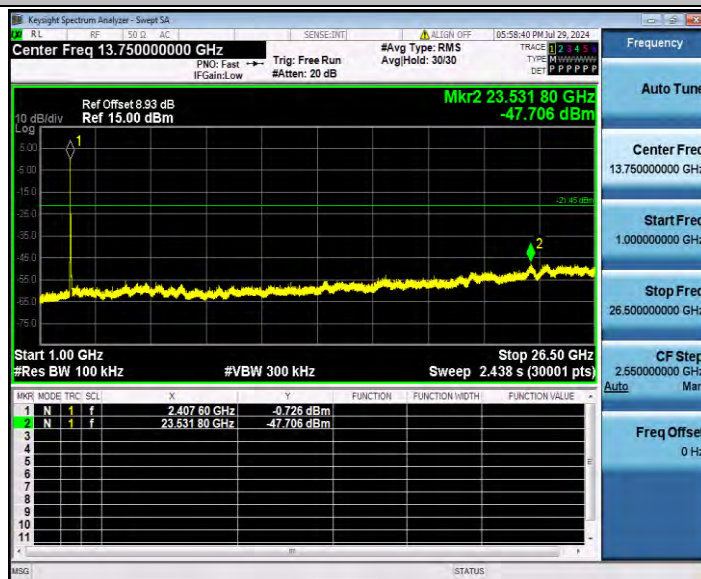
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



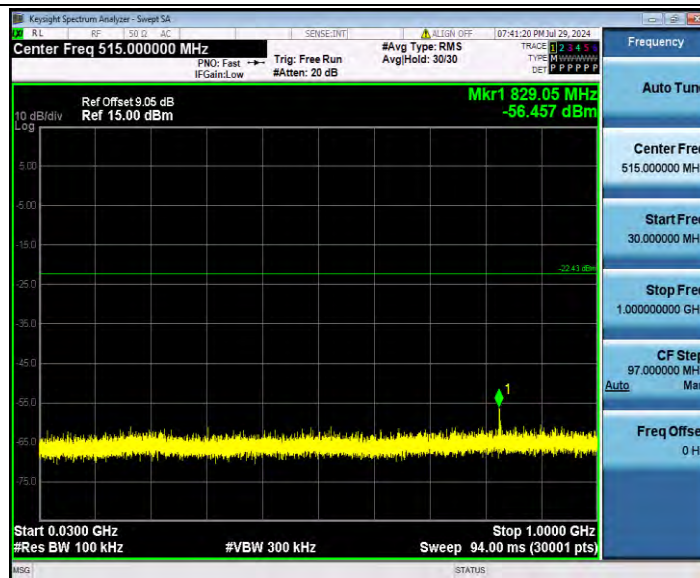
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



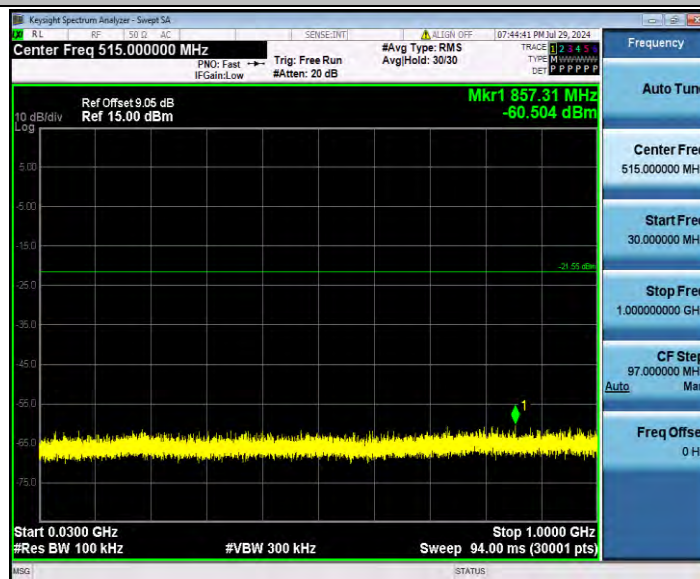
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



Appendix C.7: Emissions in Restricted Bands

Test Result

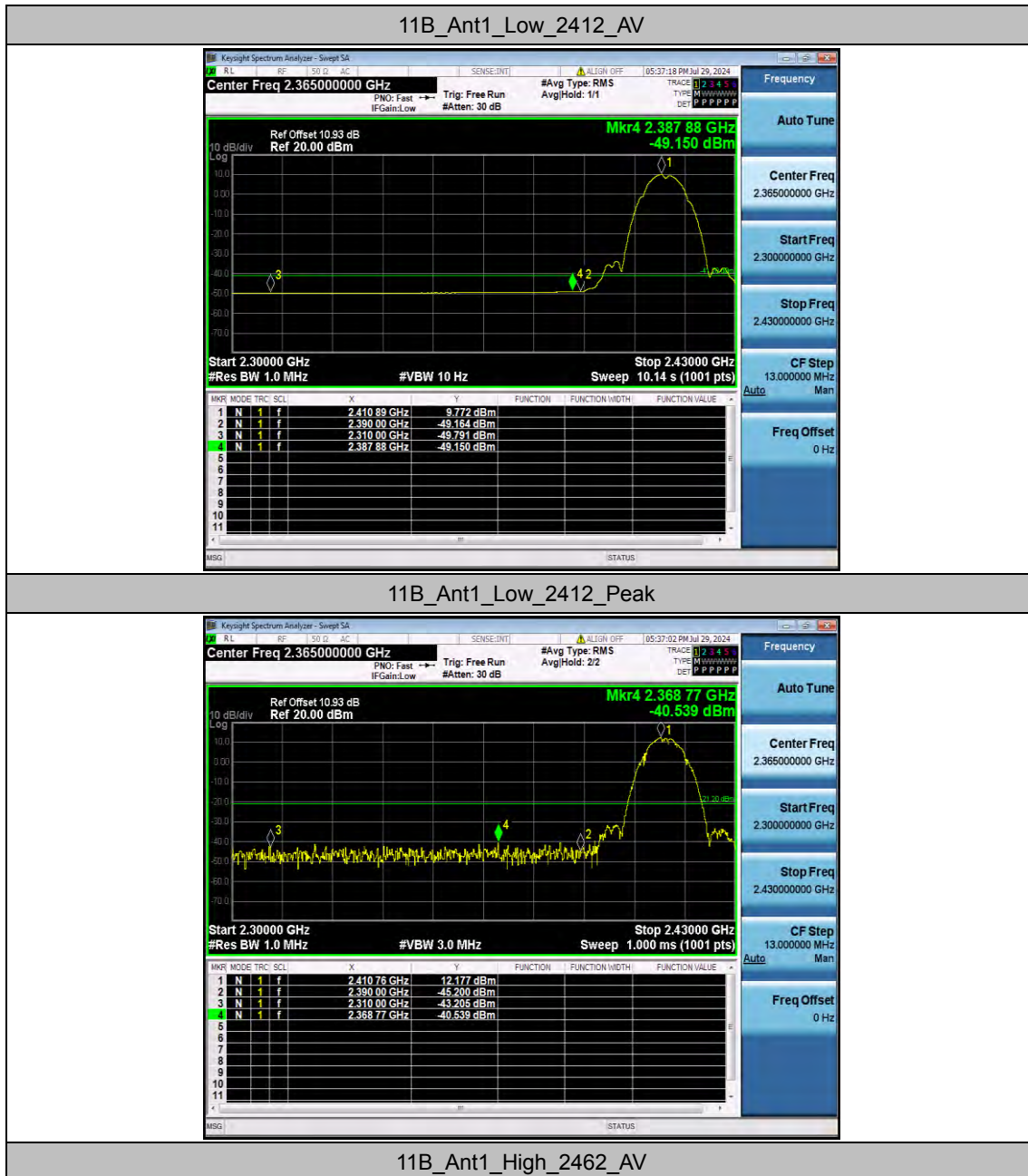
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.79	≤-41.20	45.41	≤54	PASS
				AV	2387.880	-49.15	≤-41.20	46.05	≤54	PASS
				AV	2390.000	-49.16	≤-41.20	46.04	≤54	PASS
				Peak	2310.000	-43.21	≤-21.20	51.99	≤74	PASS
				Peak	2368.770	-40.54	≤-21.20	54.66	≤74	PASS
				Peak	2390.000	-45.2	≤-21.20	50.00	≤74	PASS
		High	2462	AV	2483.500	-48.29	≤-41.20	46.91	≤54	PASS
				AV	2483.560	-48.35	≤-41.20	46.85	≤54	PASS
				AV	2500.000	-48.84	≤-41.20	46.36	≤54	PASS
				Peak	2483.500	-47.43	≤-21.20	47.77	≤74	PASS
				Peak	2483.890	-40.47	≤-21.20	54.73	≤74	PASS
				Peak	2500.000	-43.24	≤-21.20	51.96	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.8	≤-41.20	45.40	≤54	PASS
				AV	2389.960	-48.11	≤-41.20	47.09	≤54	PASS
				AV	2390.000	-48.11	≤-41.20	47.09	≤54	PASS
				Peak	2310.000	-50.46	≤-21.20	44.74	≤74	PASS
				Peak	2325.740	-41.9	≤-21.20	53.30	≤74	PASS
				Peak	2390.000	-43.85	≤-21.20	51.35	≤74	PASS
		High	2462	AV	2483.500	-46.41	≤-41.20	48.79	≤54	PASS
				AV	2483.560	-46.54	≤-41.20	48.66	≤54	PASS
				AV	2500.000	-48.87	≤-41.20	46.33	≤54	PASS
				Peak	2483.500	-44.46	≤-21.20	50.74	≤74	PASS
				Peak	2484.330	-40.77	≤-21.20	54.43	≤74	PASS
				Peak	2500.000	-46.13	≤-21.20	49.07	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-49.81	≤-41.20	45.39	≤54	PASS
				AV	2389.960	-46.32	≤-41.20	48.88	≤54	PASS
				AV	2390.000	-46.32	≤-41.20	48.88	≤54	PASS
				Peak	2310.000	-46.88	≤-21.20	48.32	≤74	PASS
				Peak	2388.530	-39.63	≤-21.20	55.57	≤74	PASS
				Peak	2390.000	-47.97	≤-21.20	47.23	≤74	PASS
		High	2462	AV	2483.500	-46.07	≤-41.20	49.13	≤54	PASS
				AV	2483.560	-46.17	≤-41.20	49.03	≤54	PASS
				AV	2500.000	-48.88	≤-41.20	46.32	≤54	PASS
				Peak	2483.500	-42.13	≤-21.20	53.07	≤74	PASS
				Peak	2489.390	-41.45	≤-21.20	53.75	≤74	PASS

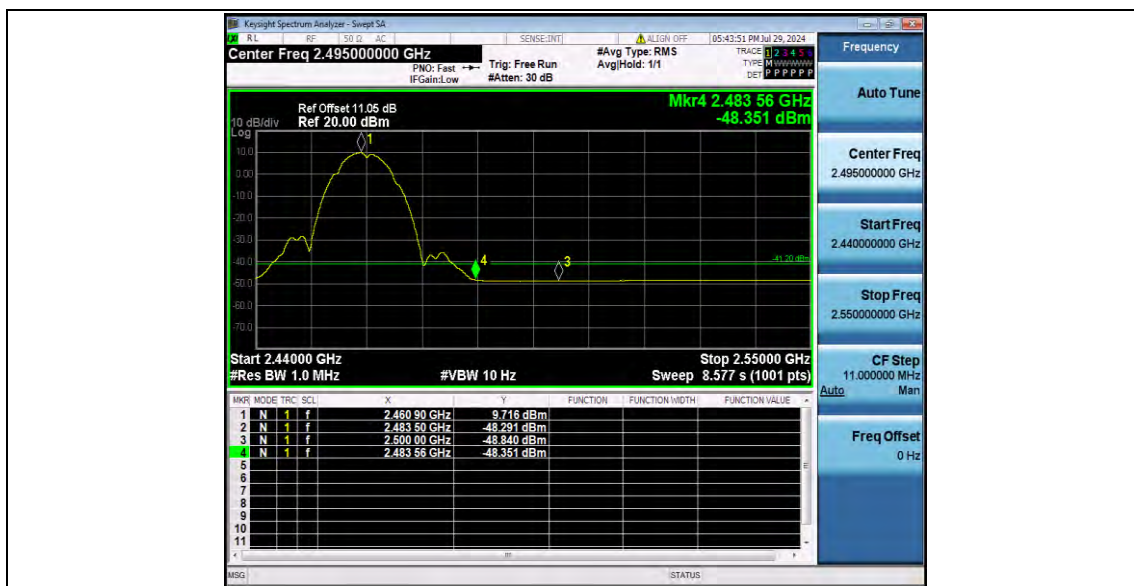
				Peak	2500.000	-45.45	≤ -21.20	49.75	≤ 74	PASS
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Note:

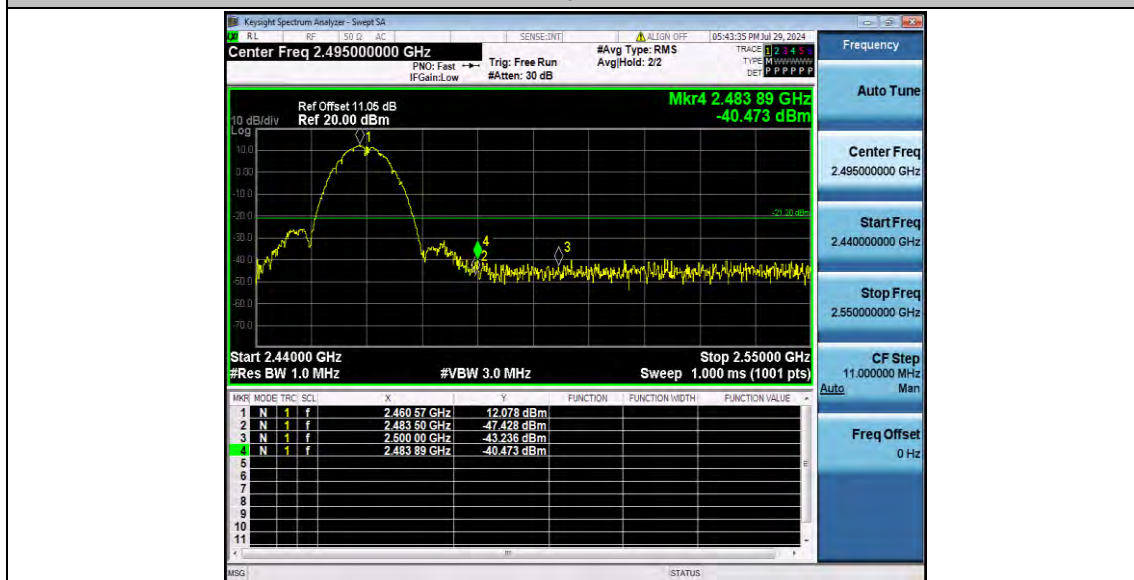
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

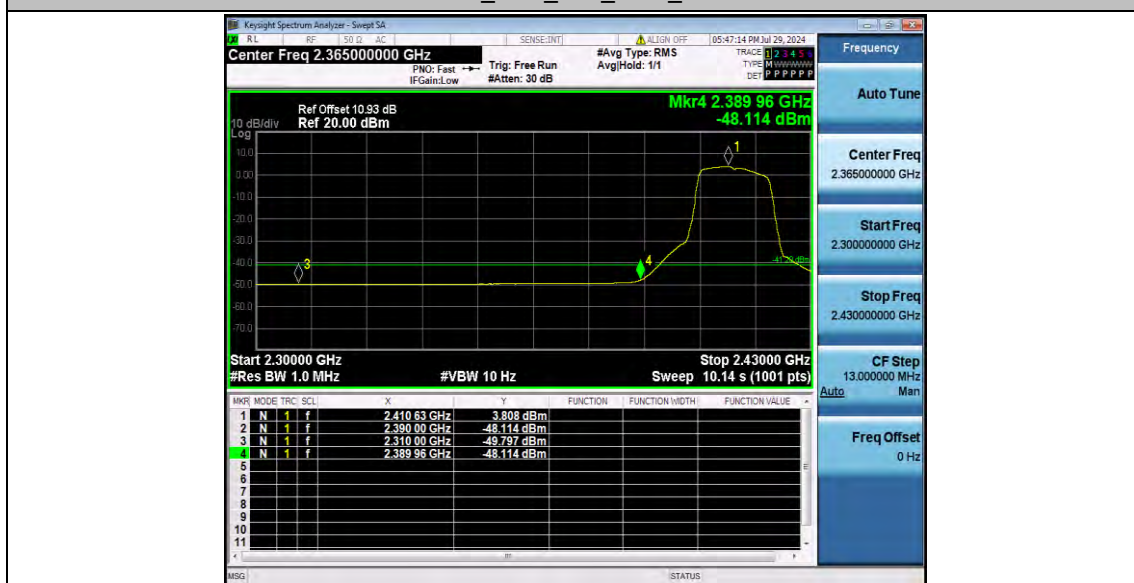




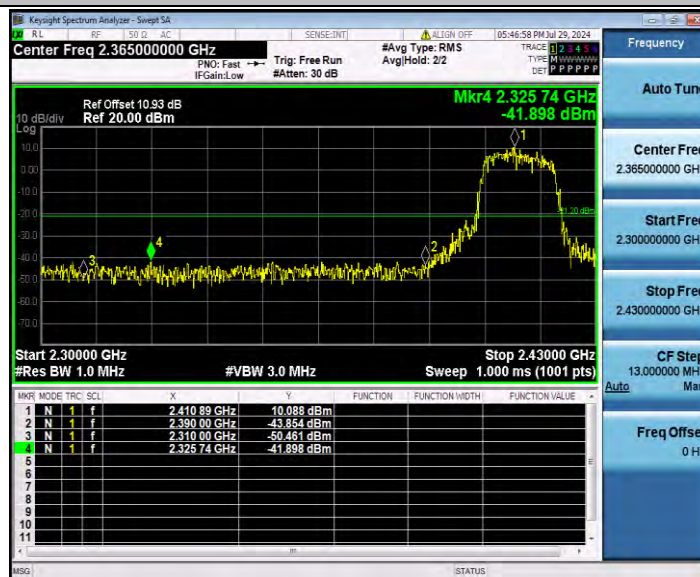
11B_Ant1_High_2462_Peak



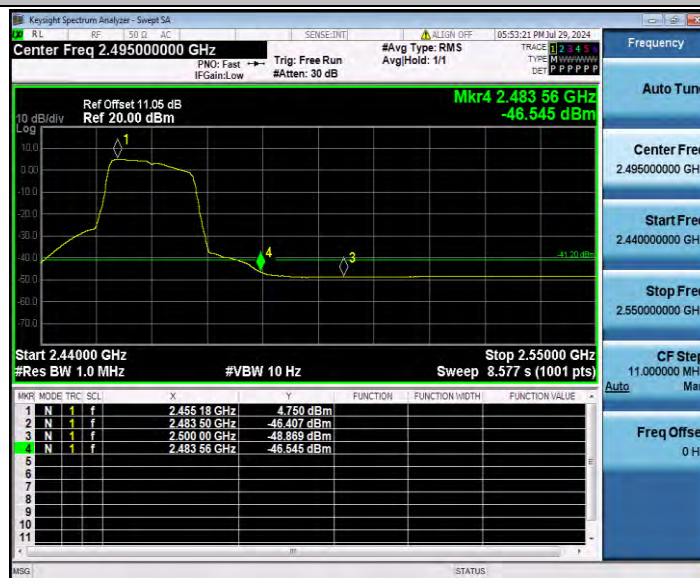
11G_Ant1_Low_2412_AV



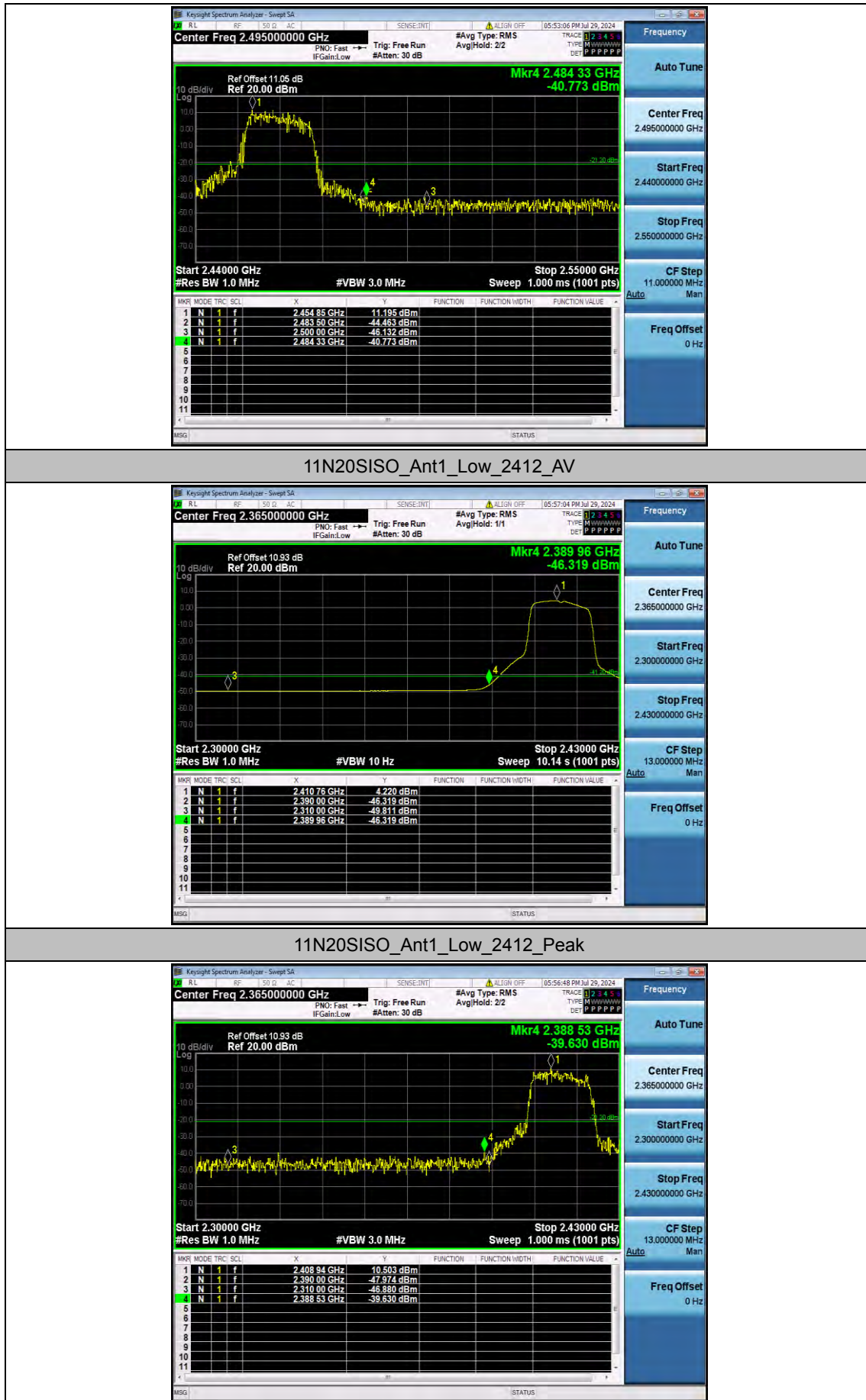
11G_Ant1_Low_2412_Peak



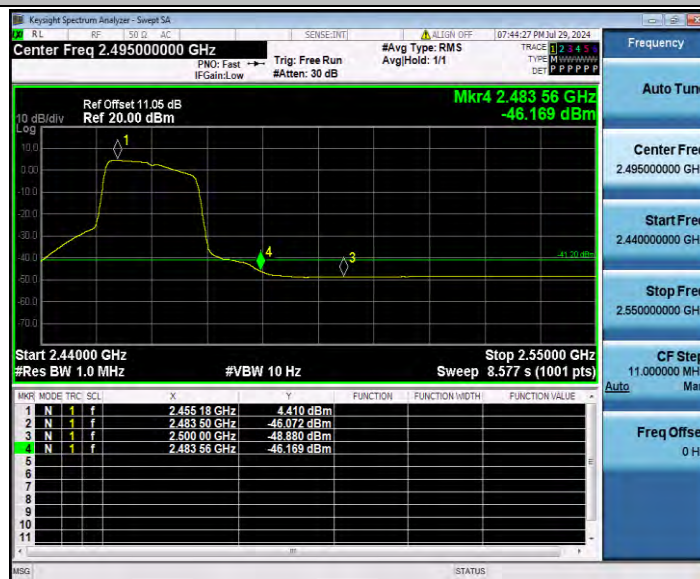
11G_Ant1_High_2462_AV



11G_Ant1_High_2462_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

