

Case No. : <u>GTS20230628002-1-11</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2024.1.19</u>	Test Engineer: <u>Evan ouyang</u>

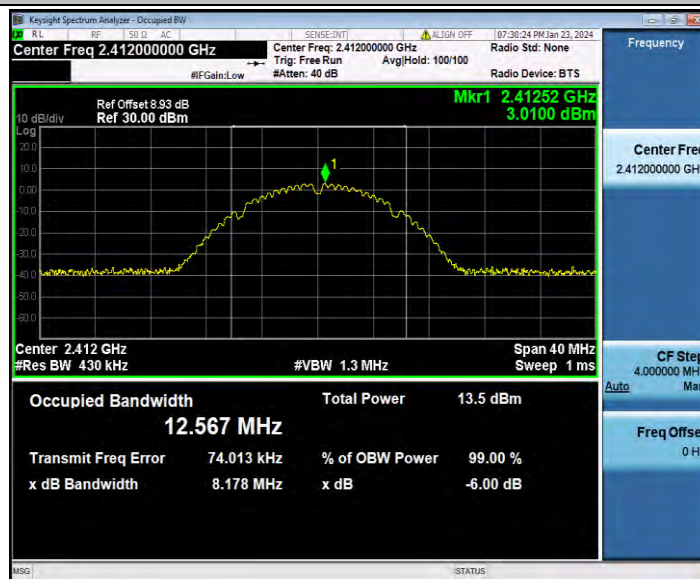
Appendix C.1: DTS Bandwidth

Test Result

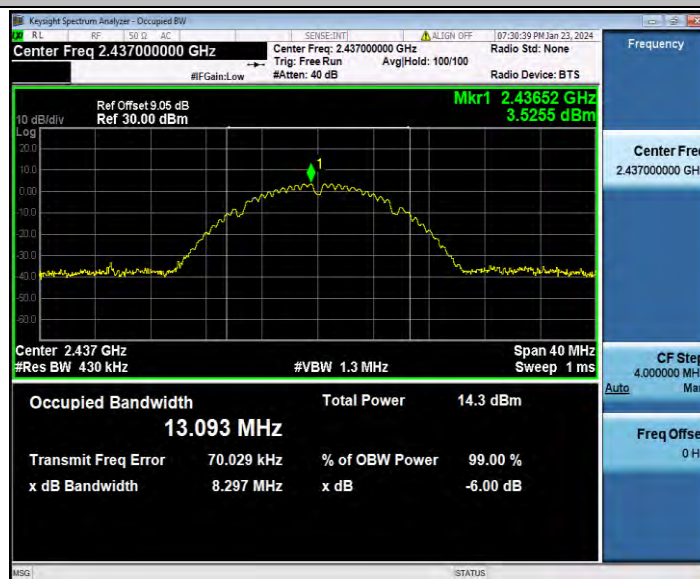
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.178	2405.7905	2418.3575	---	---
		2437	8.297	2430.5235	2443.6165	---	---
		2462	8.656	2454.9876	2468.0096	---	---
11G	Ant1	2412	15.620	2403.7984	2420.3374	---	---
		2437	16.270	2428.6849	2445.5789	---	---
		2462	13.050	2453.2244	2470.0334	---	---
11N20SISO	Ant1	2412	15.590	2403.2737	2420.8357	---	---
		2437	17.360	2428.1400	2446.0600	---	---
		2462	13.920	2452.8784	2470.5944	---	---
11N40SISO	Ant1	2422	34.950	2404.0633	2439.9383	---	---
		2437	36.290	2418.8876	2455.3476	---	---
		2452	21.500	2434.1991	2469.3261	---	---

Test Graphs

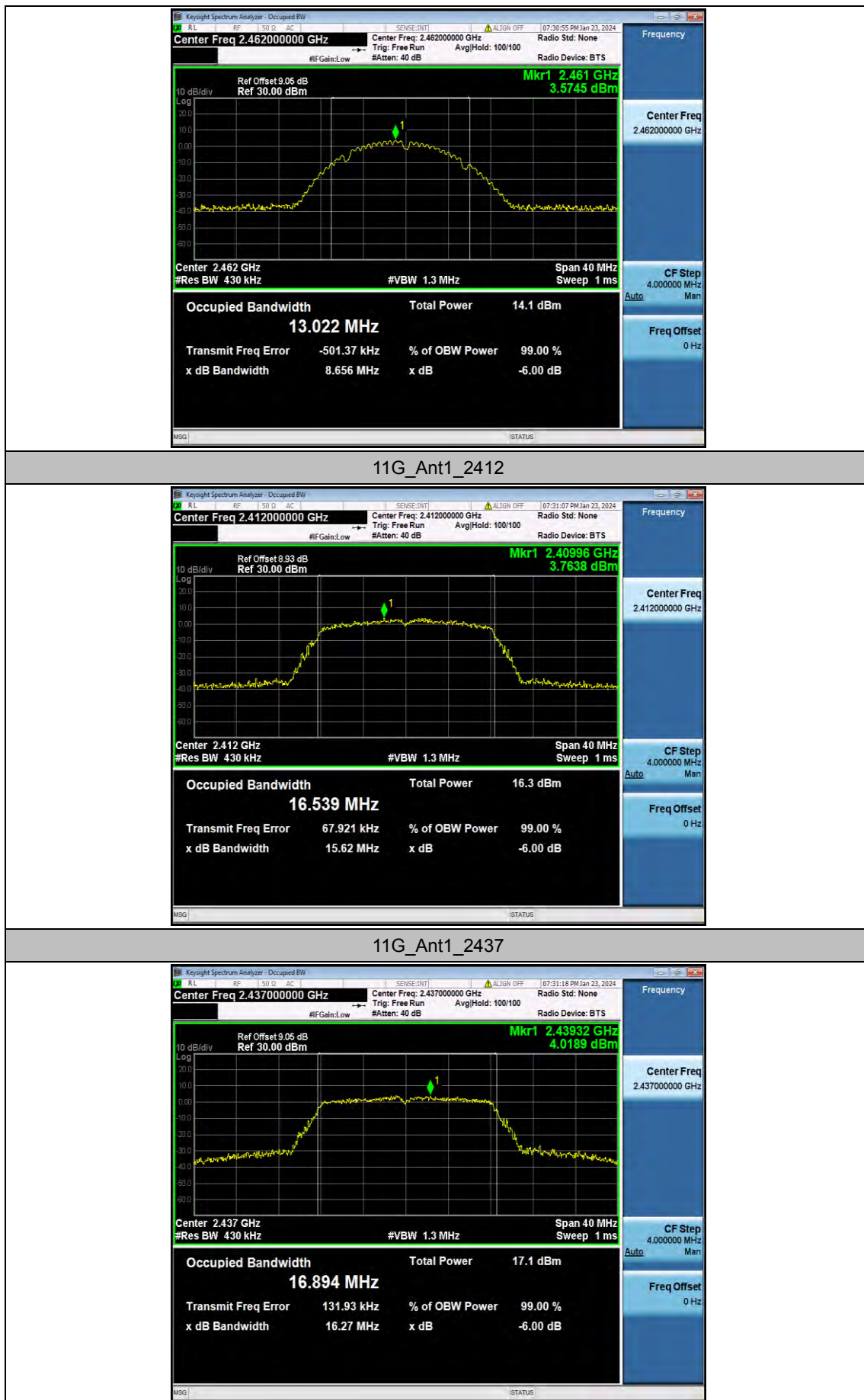
11B_Ant1_2412



11B_Ant1_2437



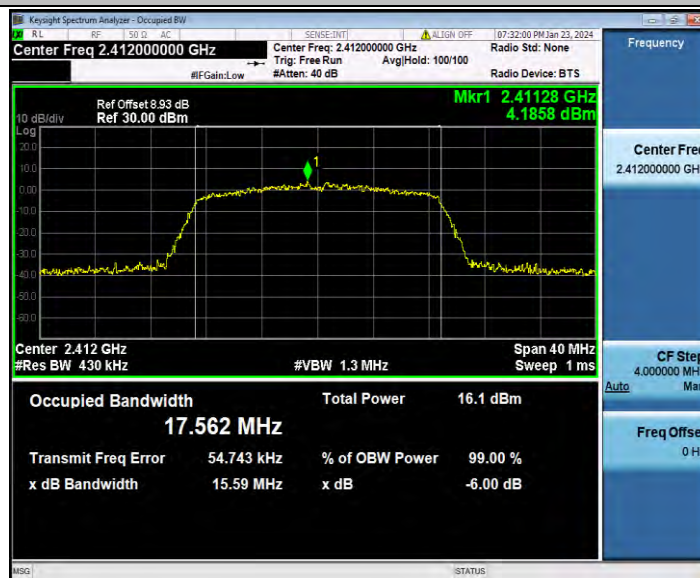
11B_Ant1_2462



11G_Ant1_2462



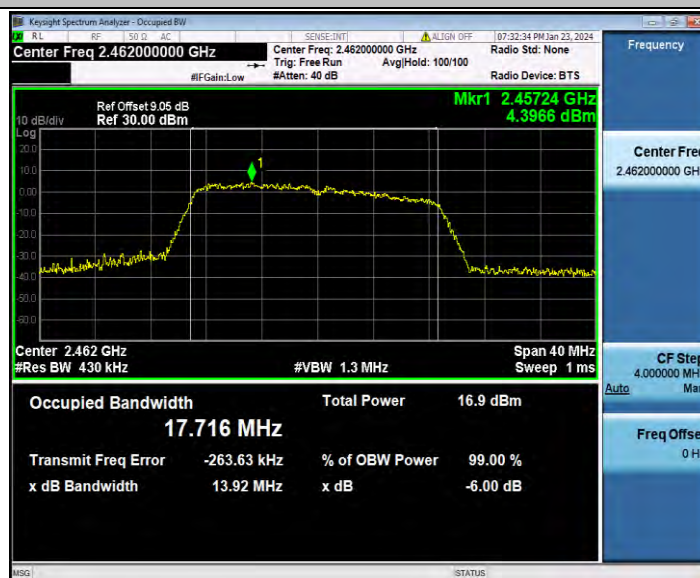
11N20SISO_Ant1_2412



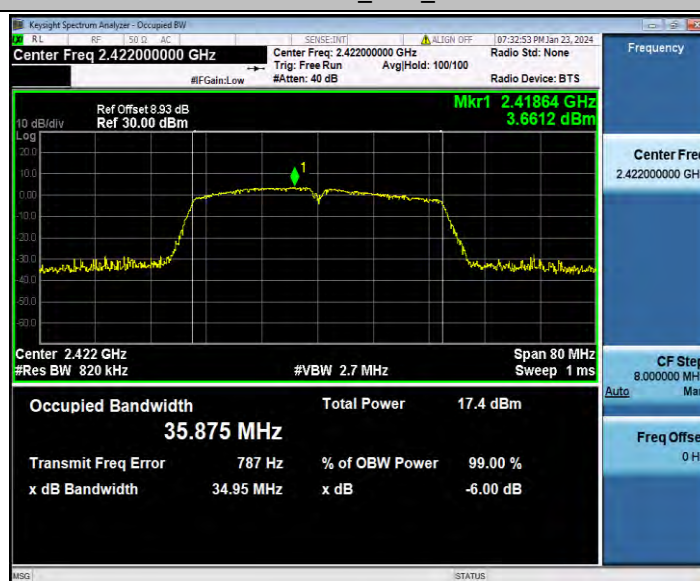
11N20SISO_Ant1_2437



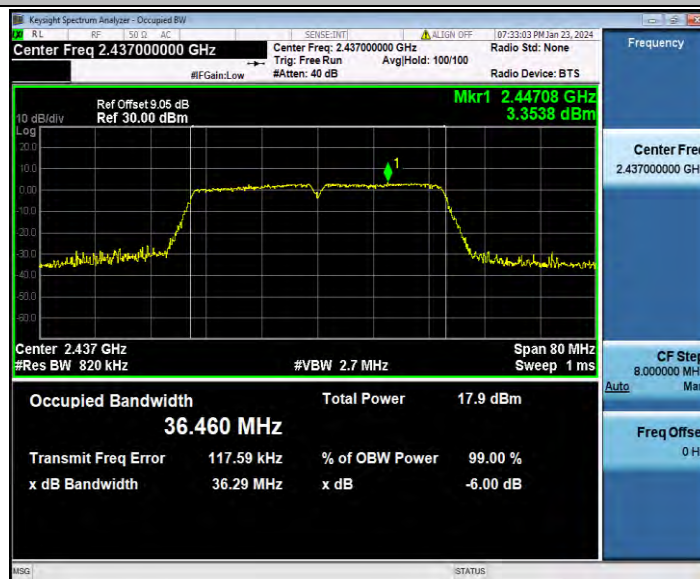
11N20SISO_Ant1_2462



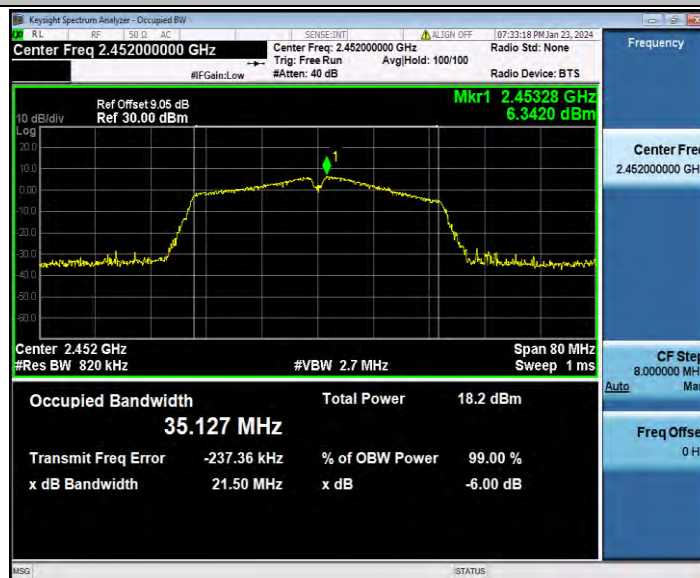
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



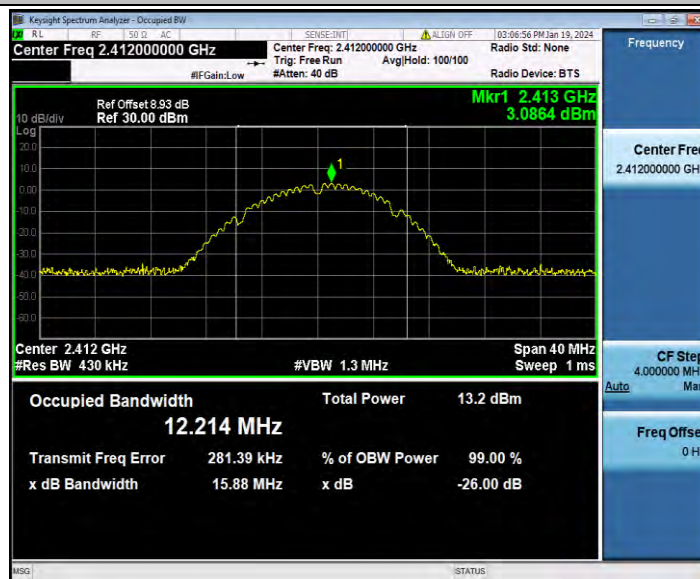
Appendix C.2: Occupied Channel Bandwidth

Test Result

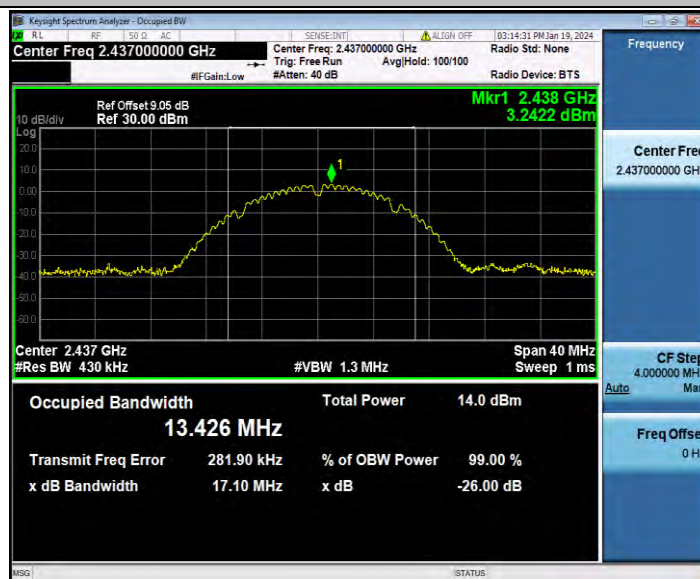
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.214	2406.1744	2418.3884	---	---
		2437	13.426	2430.5689	2443.9949	---	---
		2462	13.467	2454.6534	2468.1204	---	---
11G	Ant1	2412	16.359	2403.9423	2420.3013	---	---
		2437	17.304	2428.5858	2445.8898	---	---
		2462	17.097	2452.9855	2470.0825	---	---
11N20SISO	Ant1	2412	17.300	2403.4854	2420.7854	---	---
		2437	18.034	2428.1681	2446.2021	---	---
		2462	17.925	2452.7040	2470.6290	---	---
11N40SISO	Ant1	2422	35.484	2404.2740	2439.7580	---	---
		2437	36.790	2418.6204	2455.4104	---	---
		2452	34.622	2434.5334	2469.1554	---	---

Test Graphs

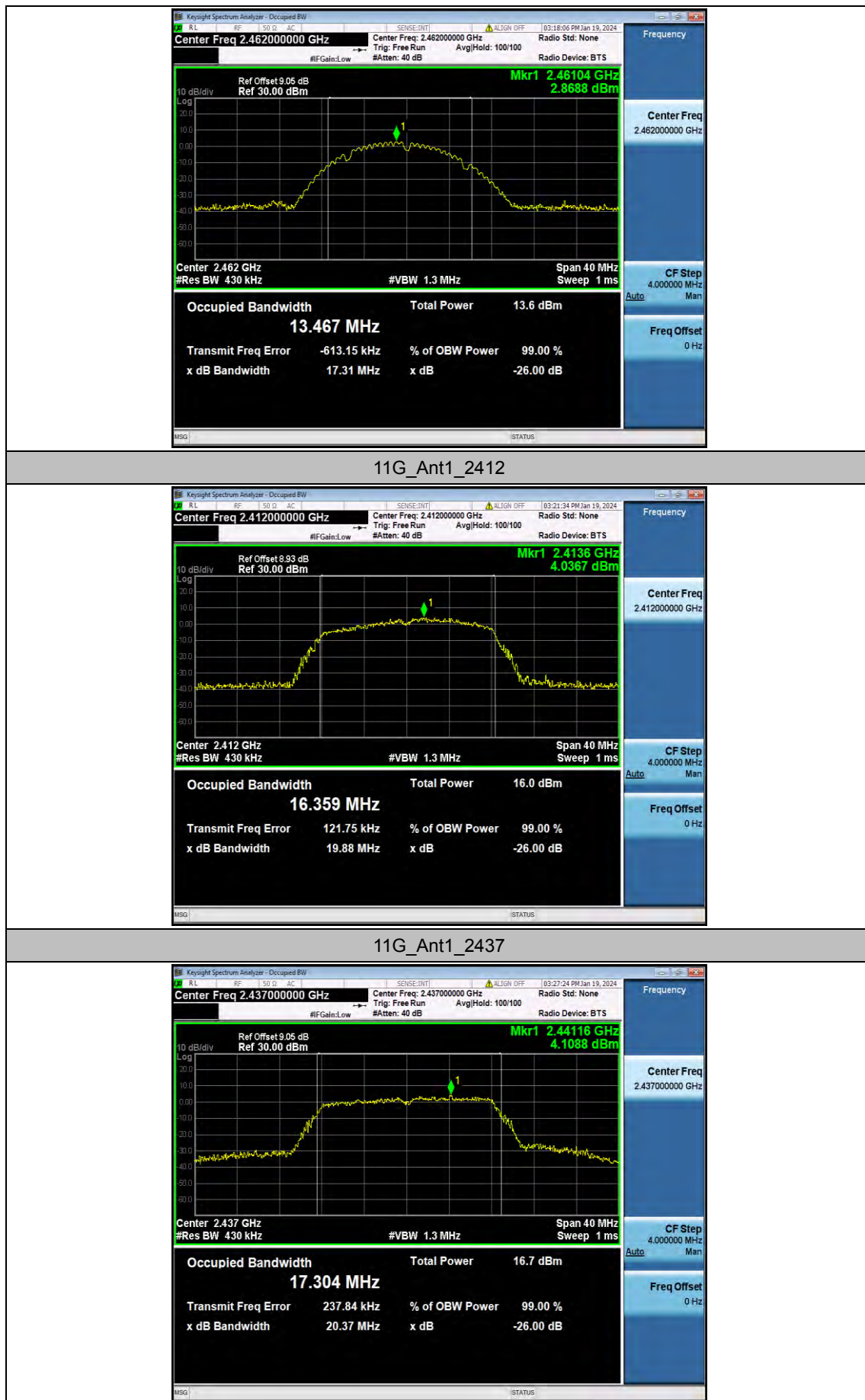
11B_Ant1_2412



11B_Ant1_2437



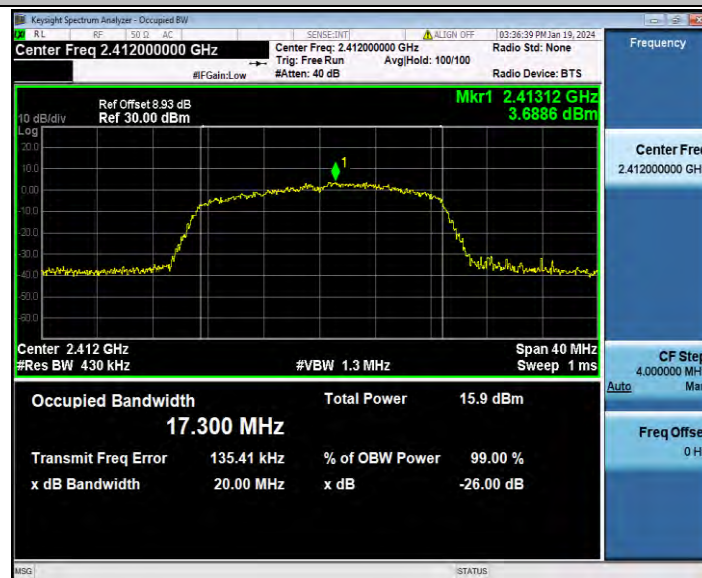
11B_Ant1_2462



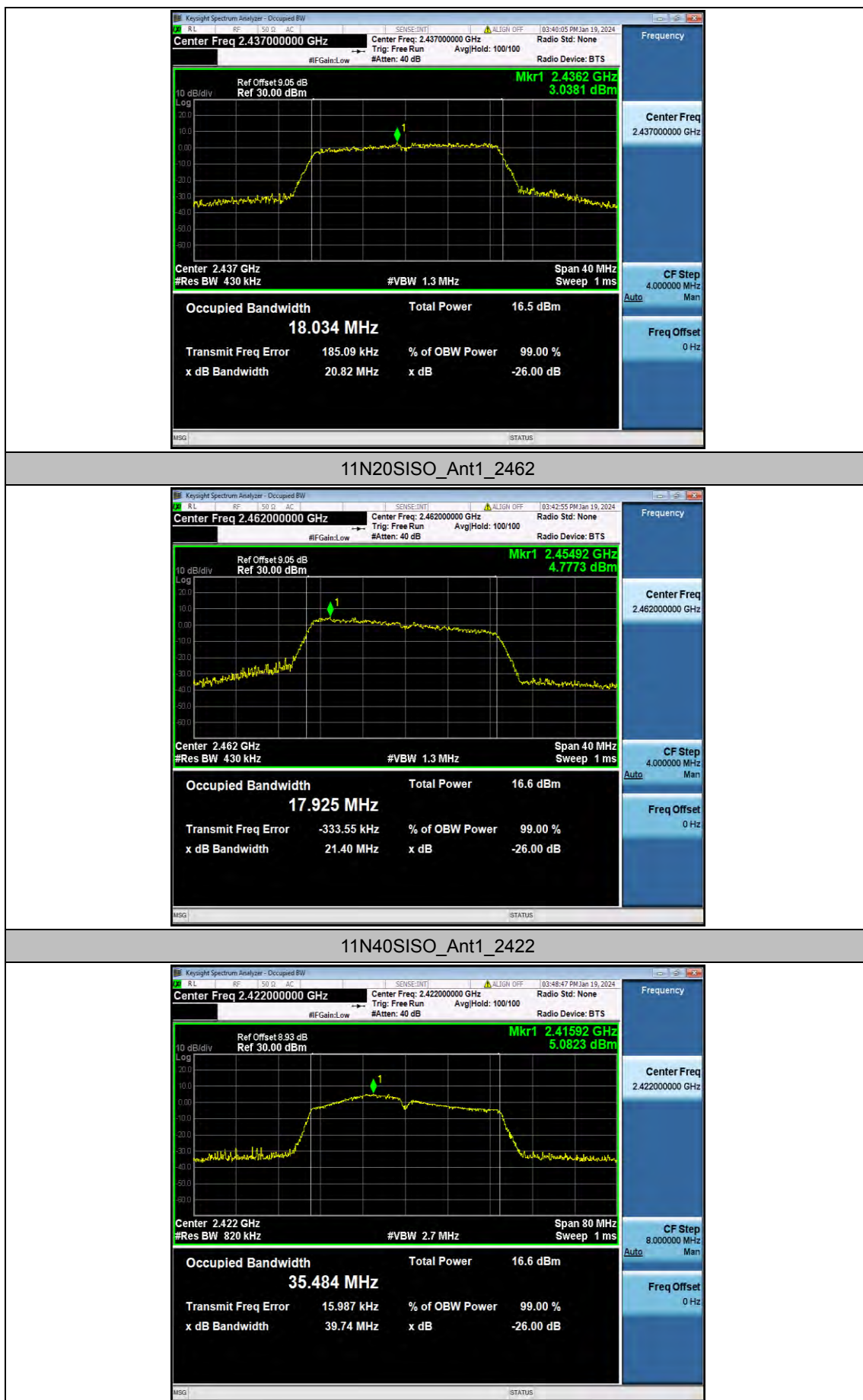
11G_Ant1_2462



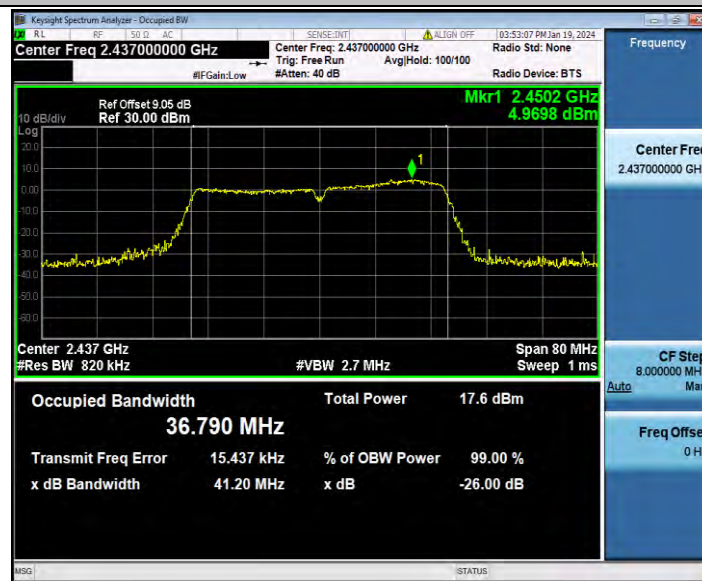
11N20SISO_Ant1_2412



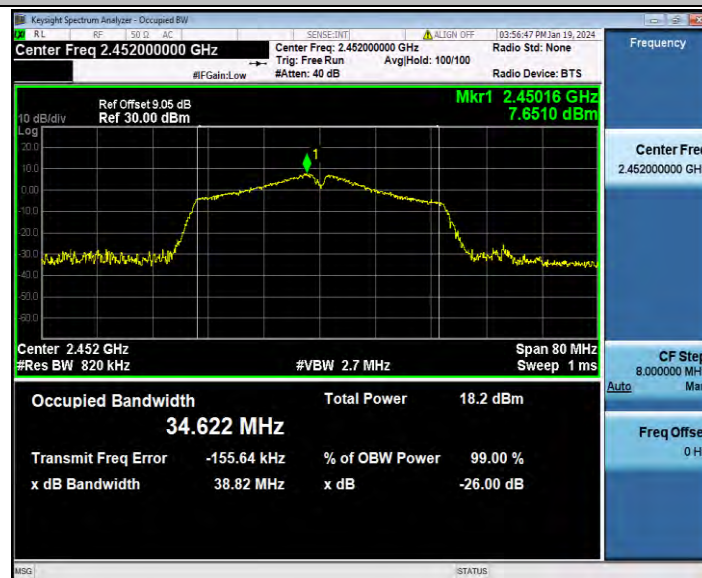
11N20SISO_Ant1_2437



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C.3: Maximum conducted output power

Test Result Peak

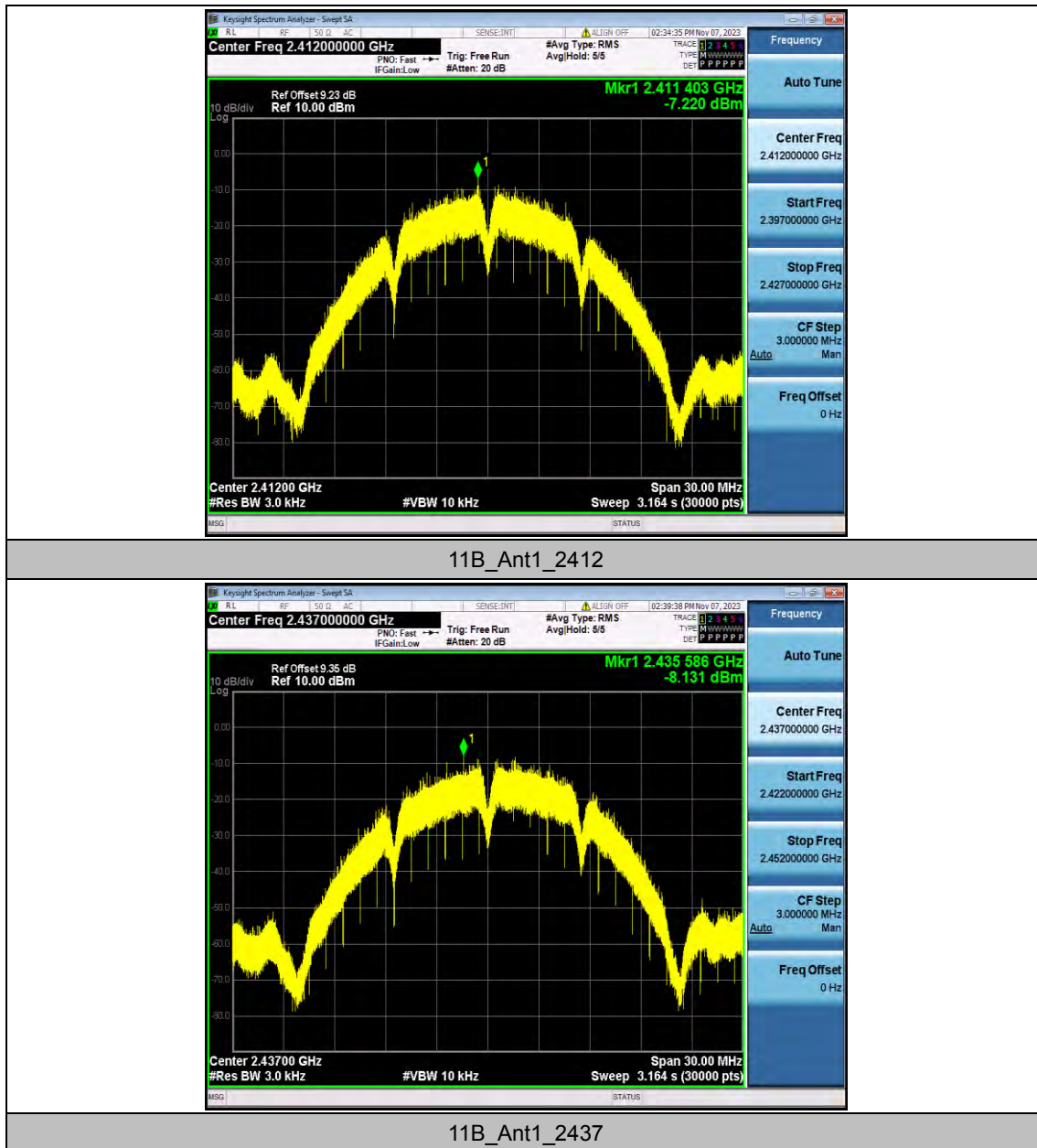
Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	19.08	≤30.00	PASS
		2437	19.89	≤30.00	PASS
		2462	19.40	≤30.00	PASS
11G	Ant1	2412	21.15	≤30.00	PASS
		2437	21.00	≤30.00	PASS
		2462	21.21	≤30.00	PASS
11N20SISO	Ant1	2412	21.16	≤30.00	PASS
		2437	21.76	≤30.00	PASS
		2462	21.14	≤30.00	PASS
11N40SISO	Ant1	2422	21.79	≤30.00	PASS
		2437	21.92	≤30.00	PASS
		2452	21.02	≤30.00	PASS

Appendix C.4: Maximum power spectral density

Test Result

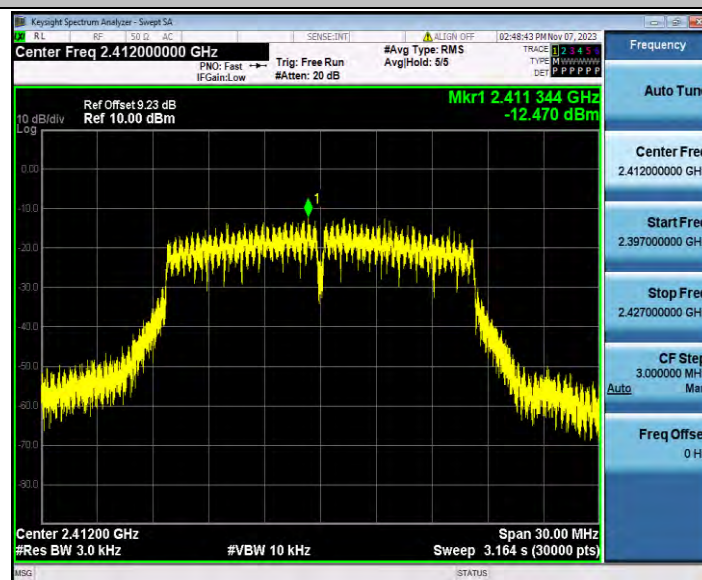
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.22	≤8.00	PASS
		2437	-8.13	≤8.00	PASS
		2462	-7.24	≤8.00	PASS
11G	Ant1	2412	-12.47	≤8.00	PASS
		2437	-10.2	≤8.00	PASS
		2462	-11.92	≤8.00	PASS
11N20SISO	Ant1	2412	-12.15	≤8.00	PASS
		2437	-11.89	≤8.00	PASS
		2462	-12.36	≤8.00	PASS
11N40SISO	Ant1	2422	-14.28	≤8.00	PASS
		2437	-12.45	≤8.00	PASS
		2452	-11.54	≤8.00	PASS

Test Graphs

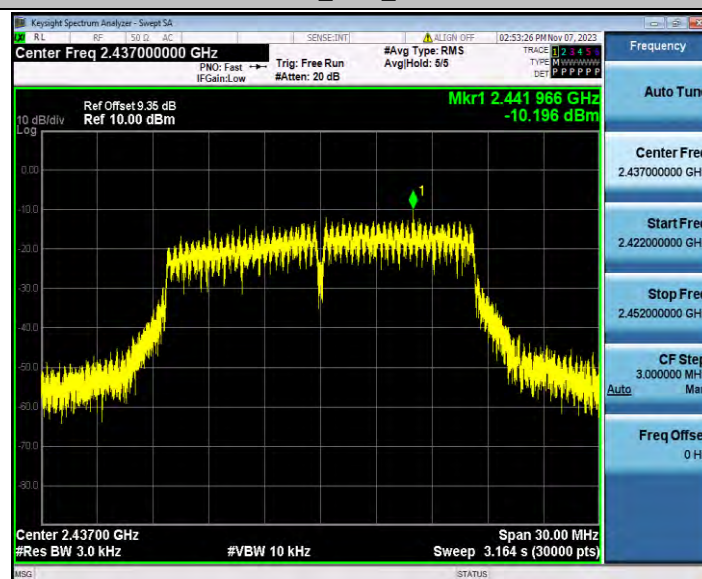




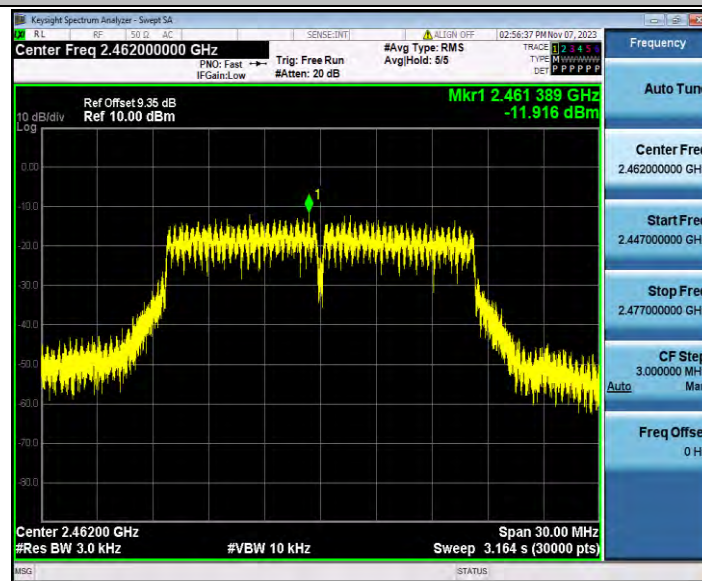
11B_Ant1_2462



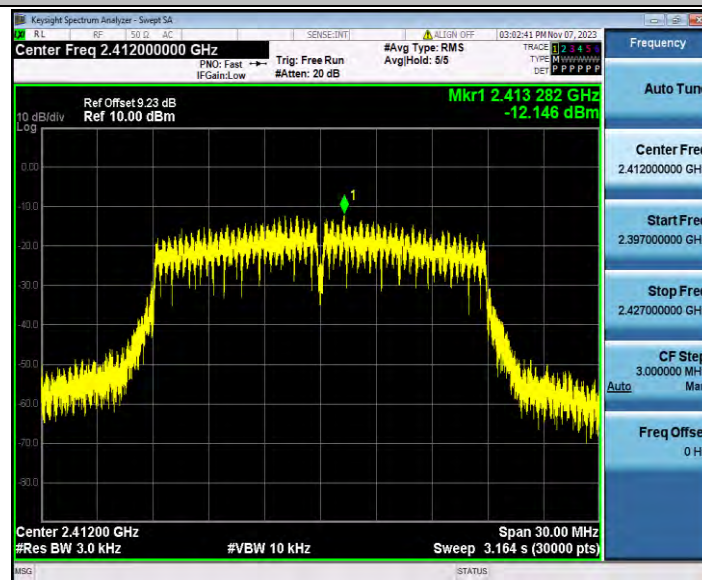
11G_Ant1_2412



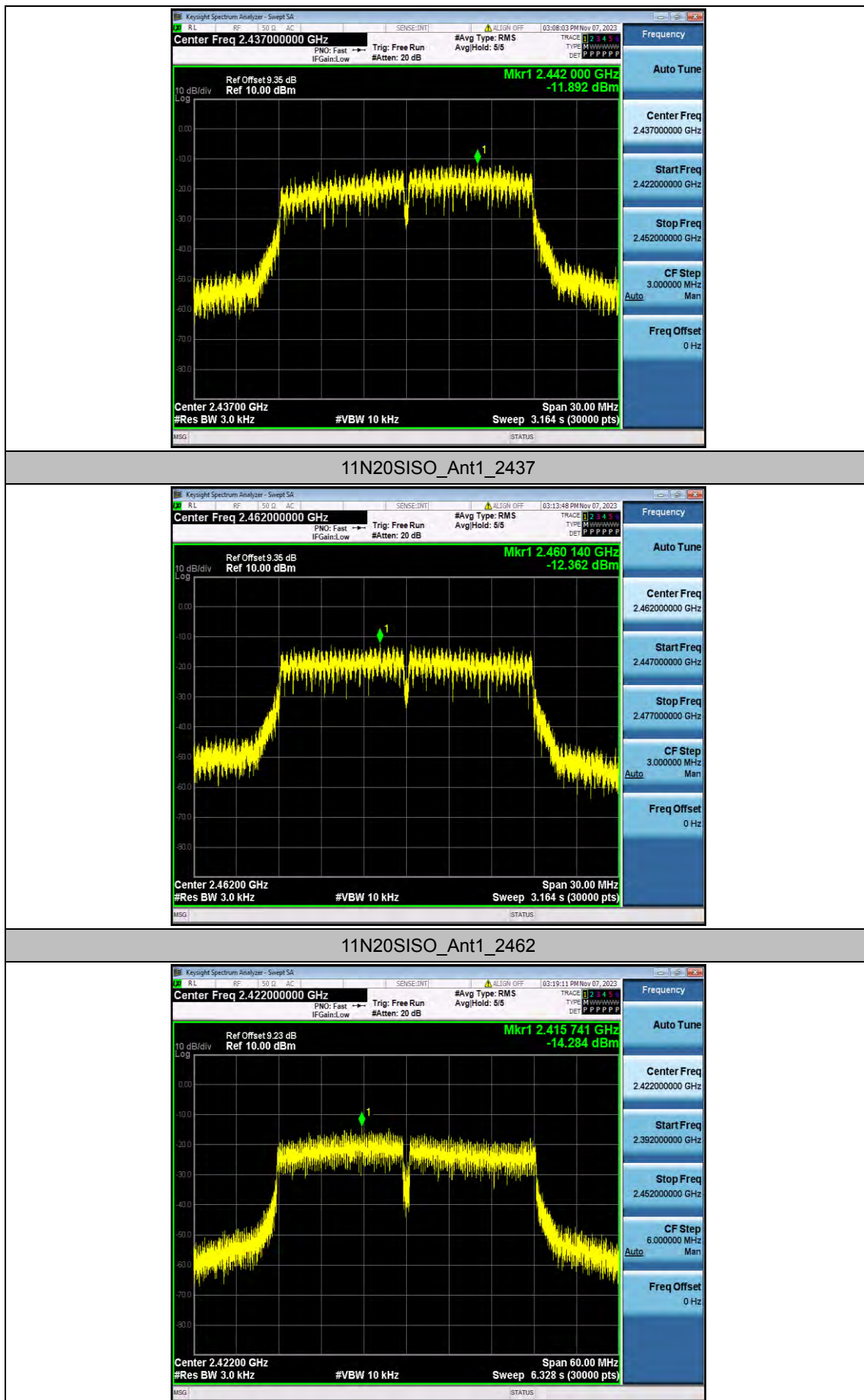
11G_Ant1_2437



11G_Ant1_2462



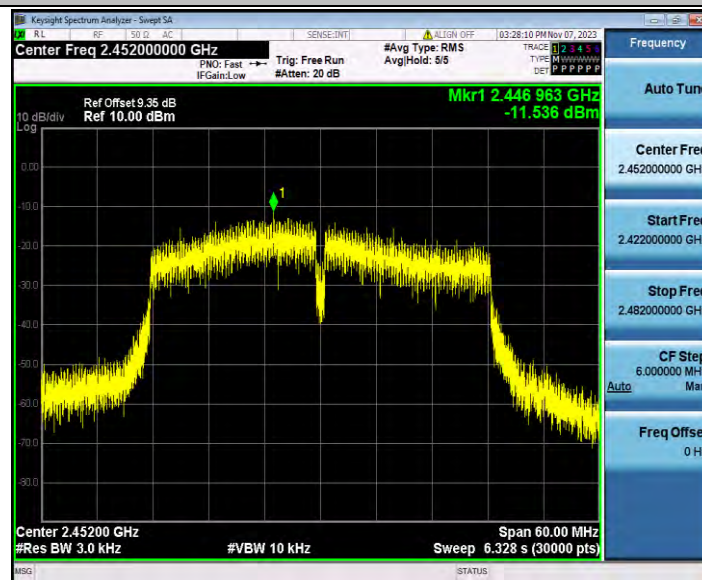
11N20SISO_Ant1_2412



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

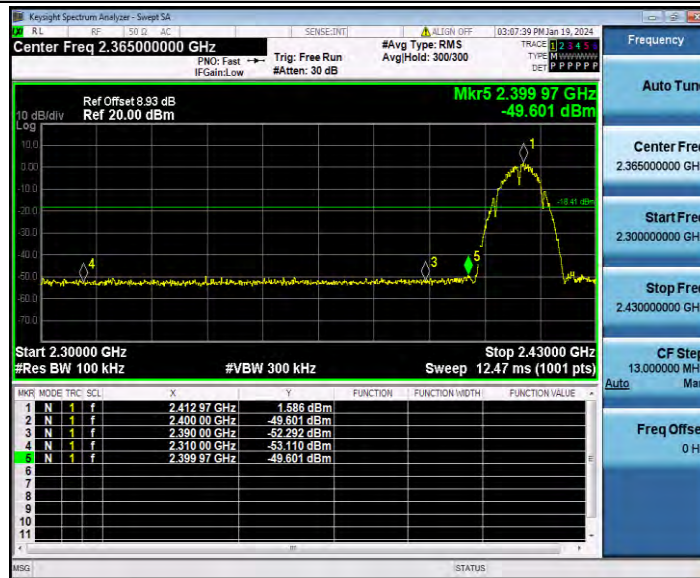
Appendix C.5: Band edge measurements

Test Result

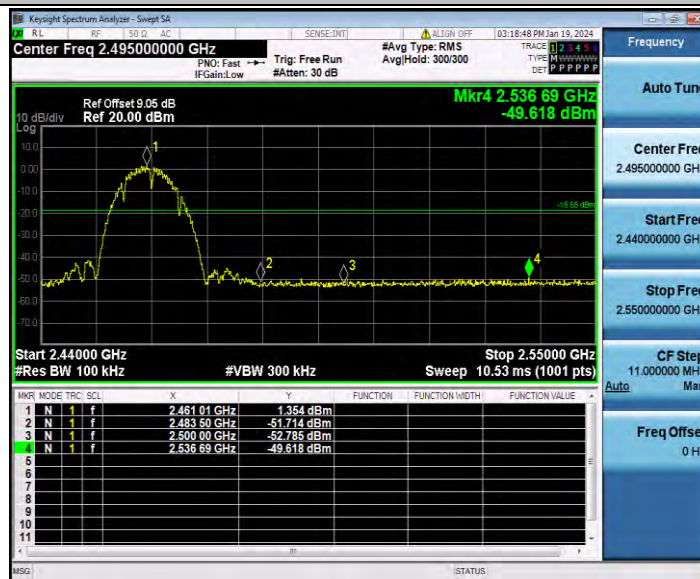
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.59	-49.6	≤ -18.41	PASS
		High	2462	1.35	-49.62	≤ -18.65	PASS
11G	Ant1	Low	2412	1.34	-46.75	≤ -18.67	PASS
		High	2462	1.22	-48.02	≤ -18.79	PASS
11N20SISO	Ant1	Low	2412	1.23	-45.59	≤ -18.77	PASS
		High	2462	1.30	-48.99	≤ -18.7	PASS
11N40SISO	Ant1	Low	2422	-1.00	-40.36	≤ -21	PASS
		High	2452	0.94	-44.1	≤ -19.06	PASS

Test Graphs

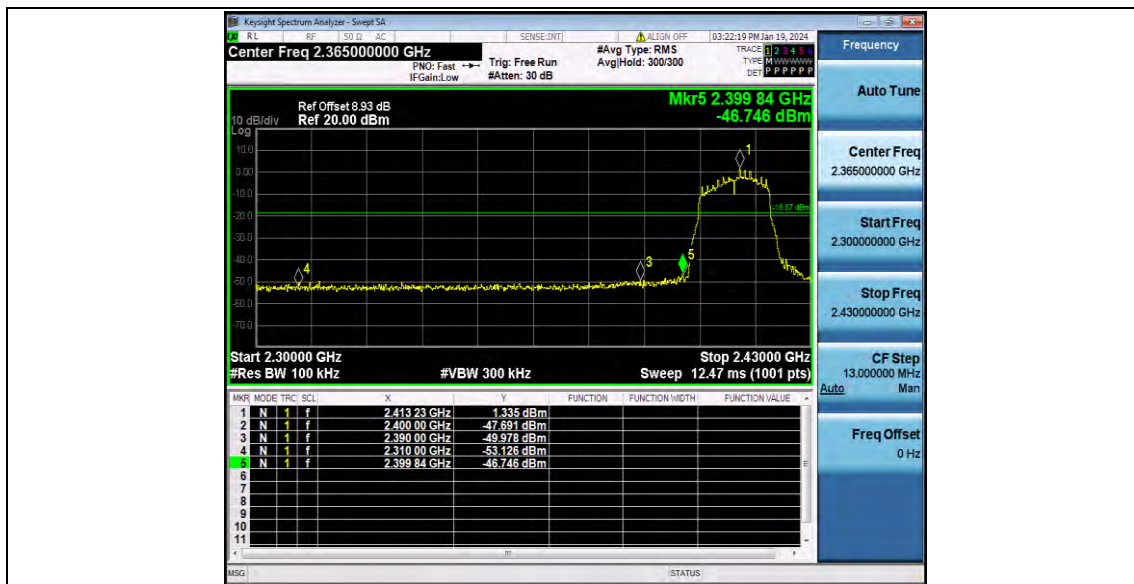
11B_Ant1_Low_2412



11B_Ant1_High_2462



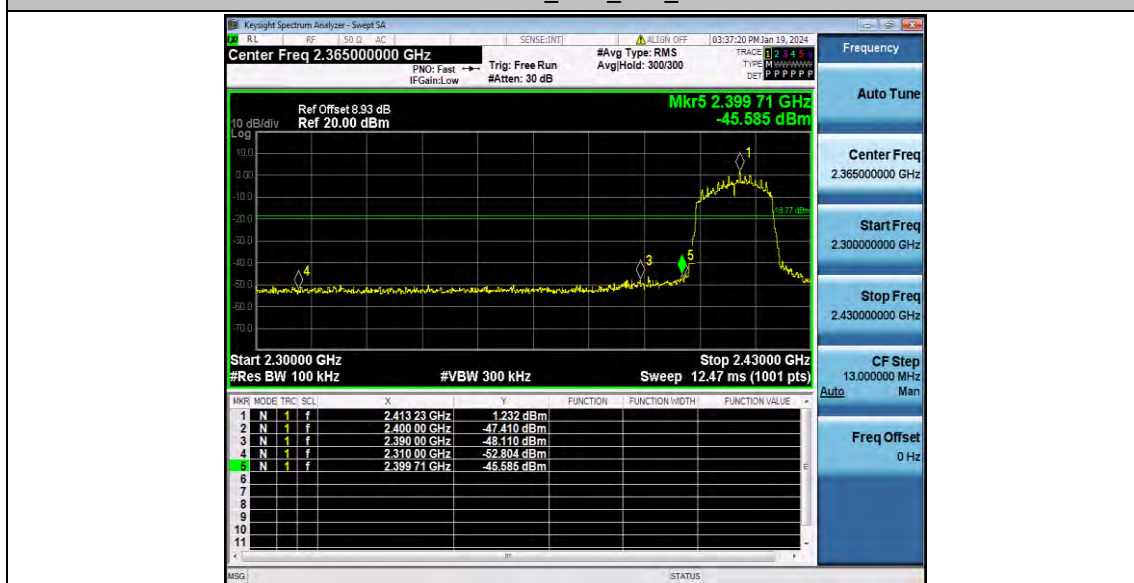
11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



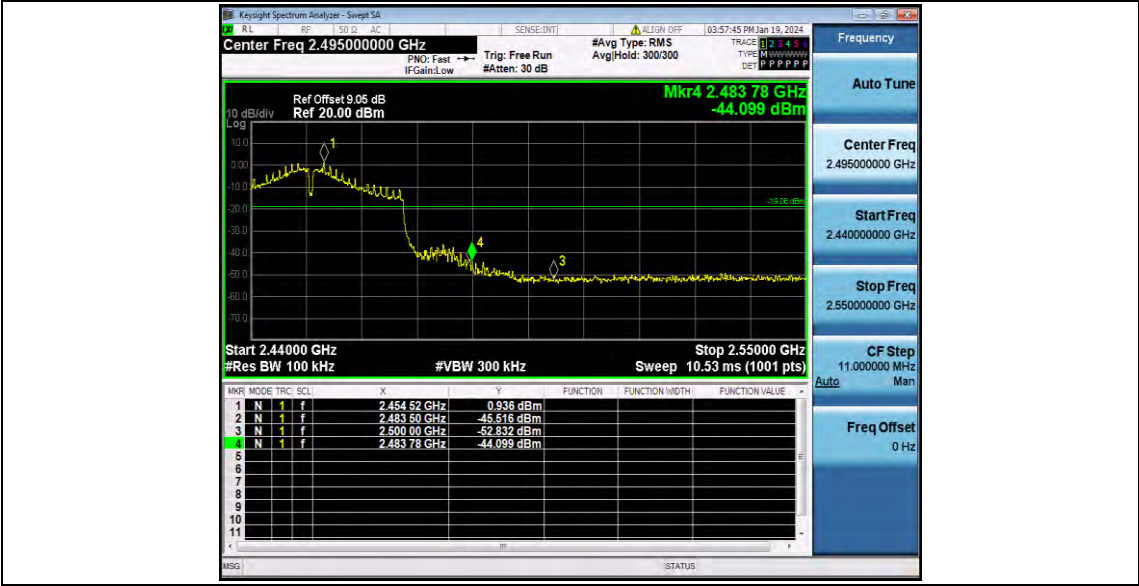
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

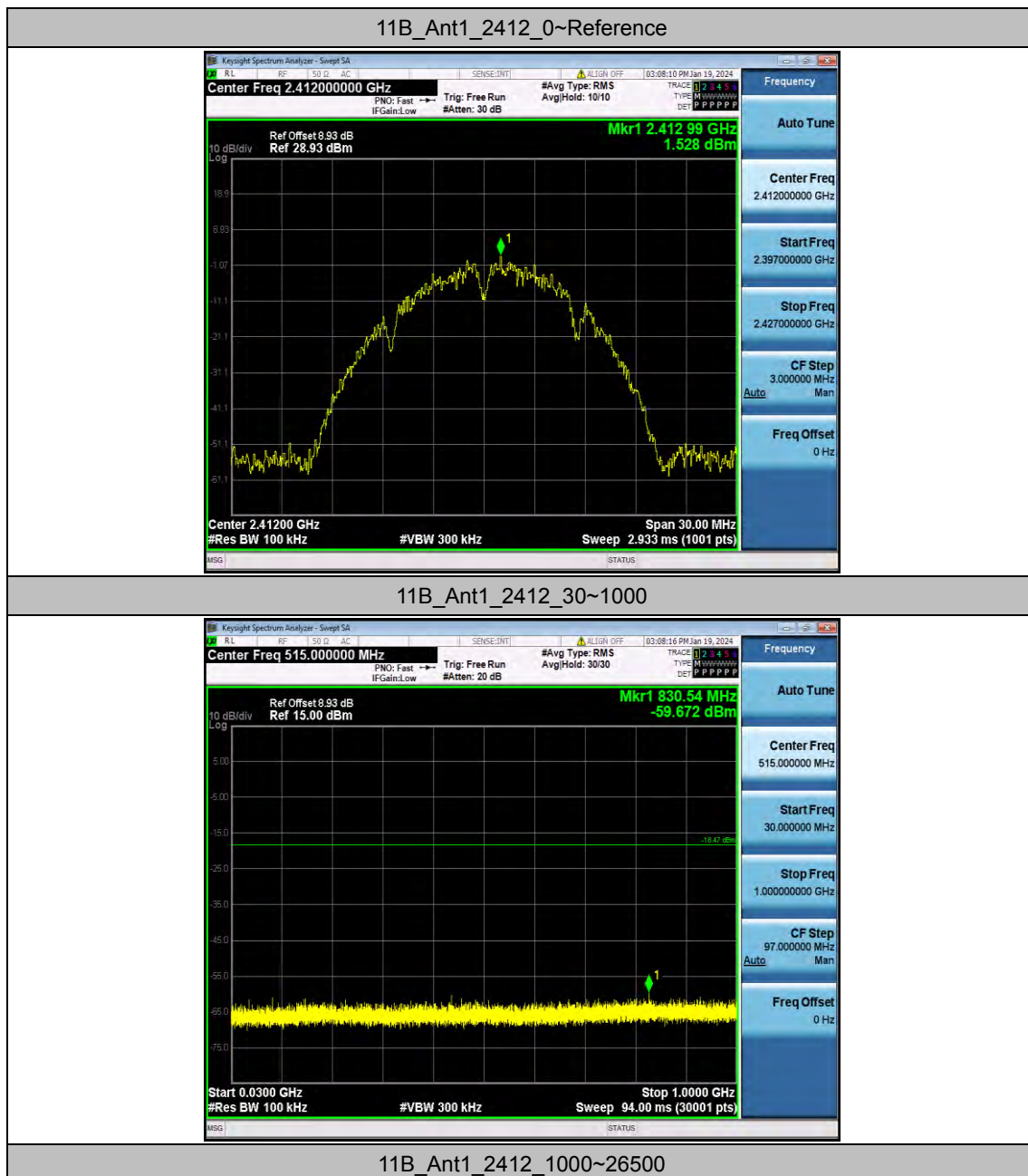


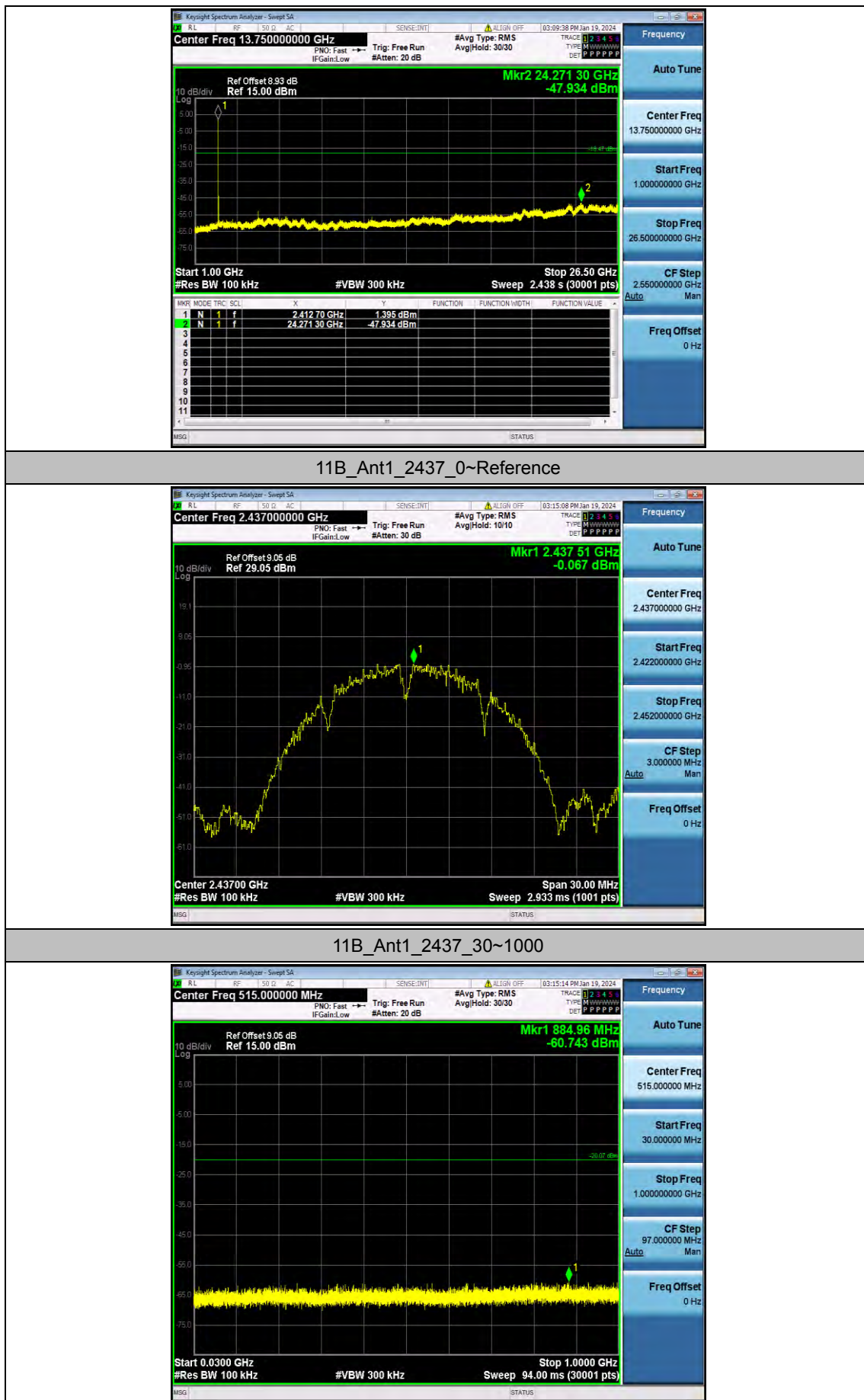
Appendix C.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.53	1.53	---	PASS
			30~1000	1.53	-59.67	≤ -18.47	PASS
			1000~26500	1.53	-47.93	≤ -18.47	PASS
		2437	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-60.74	≤ -20.07	PASS
			1000~26500	-0.07	-47.71	≤ -20.07	PASS
		2462	Reference	1.10	1.10	---	PASS
			30~1000	1.10	-59.66	≤ -18.9	PASS
			1000~26500	1.10	-47.76	≤ -18.9	PASS
11G	Ant1	2412	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-59.82	≤ -20.9	PASS
			1000~26500	-0.90	-47.72	≤ -20.9	PASS
		2437	Reference	-0.60	-0.60	---	PASS
			30~1000	-0.60	-60.12	≤ -20.6	PASS
			1000~26500	-0.60	-48.09	≤ -20.6	PASS
		2462	Reference	-1.50	-1.50	---	PASS
			30~1000	-1.50	-60.13	≤ -21.5	PASS
			1000~26500	-1.50	-48.39	≤ -21.5	PASS
11N20SISO	Ant1	2412	Reference	0.78	0.78	---	PASS
			30~1000	0.78	-60.27	≤ -19.22	PASS
			1000~26500	0.78	-47.56	≤ -19.22	PASS
		2437	Reference	-2.83	-2.83	---	PASS
			30~1000	-2.83	-59.19	≤ -22.83	PASS
			1000~26500	-2.83	-46.95	≤ -22.83	PASS
		2462	Reference	-2.18	-2.18	---	PASS
			30~1000	-2.18	-60.39	≤ -22.18	PASS
			1000~26500	-2.18	-47.8	≤ -22.18	PASS
11N40SISO	Ant1	2422	Reference	-2.44	-2.44	---	PASS
			30~1000	-2.44	-60.63	≤ -22.44	PASS
			1000~26500	-2.44	-47.67	≤ -22.44	PASS
		2437	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-60	≤ -21.11	PASS
			1000~26500	-1.11	-47.35	≤ -21.11	PASS
		2452	Reference	-1.59	-1.59	---	PASS
			30~1000	-1.59	-60.34	≤ -21.59	PASS
			1000~26500	-1.59	-47.65	≤ -21.59	PASS

Test Graphs





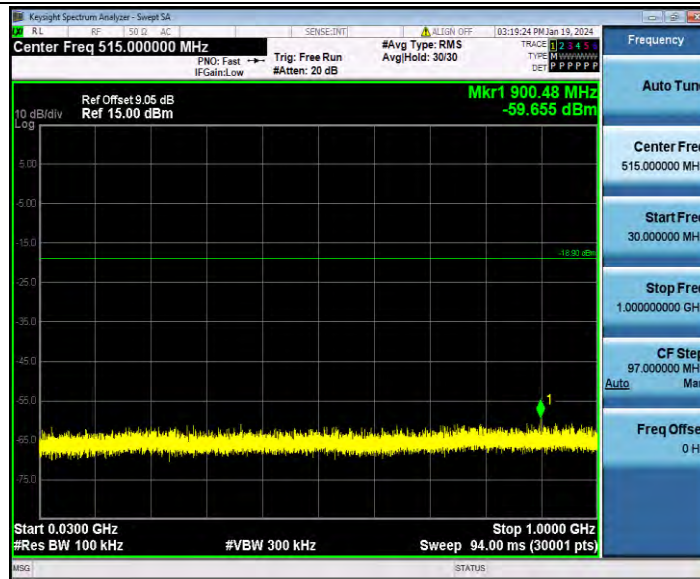
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



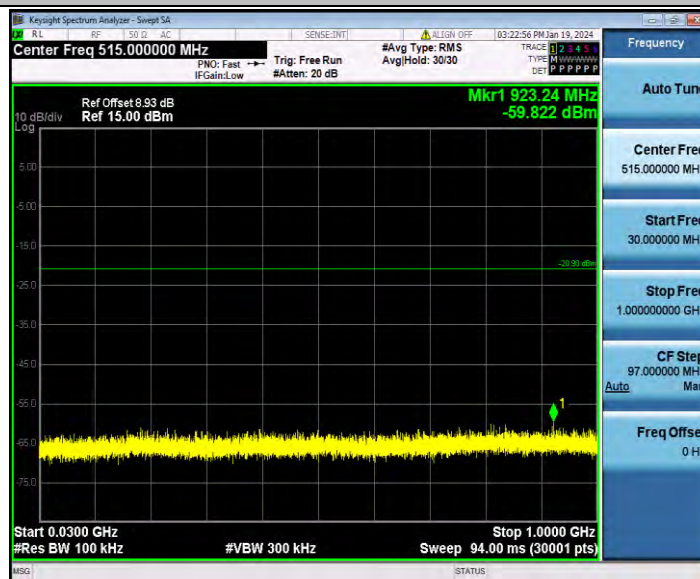
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



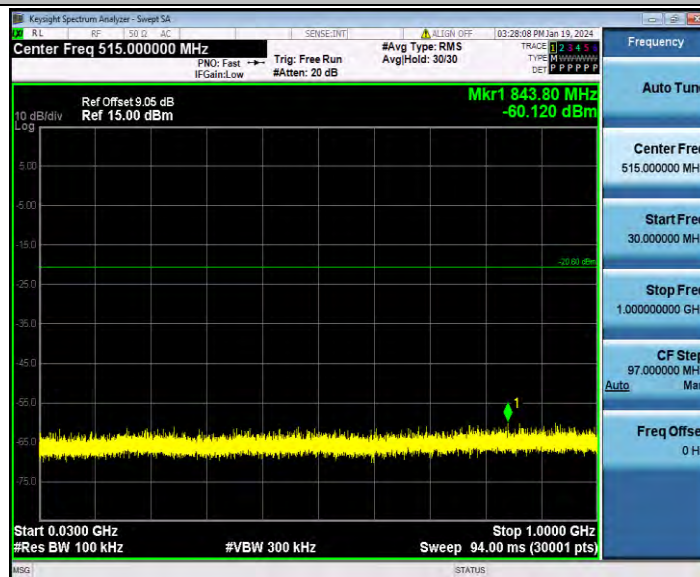
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



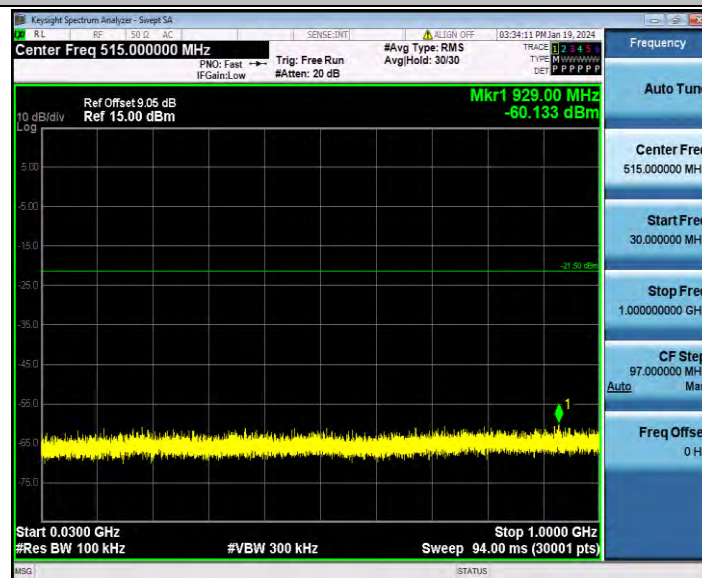
11G_Ant1_2437_1000~26500



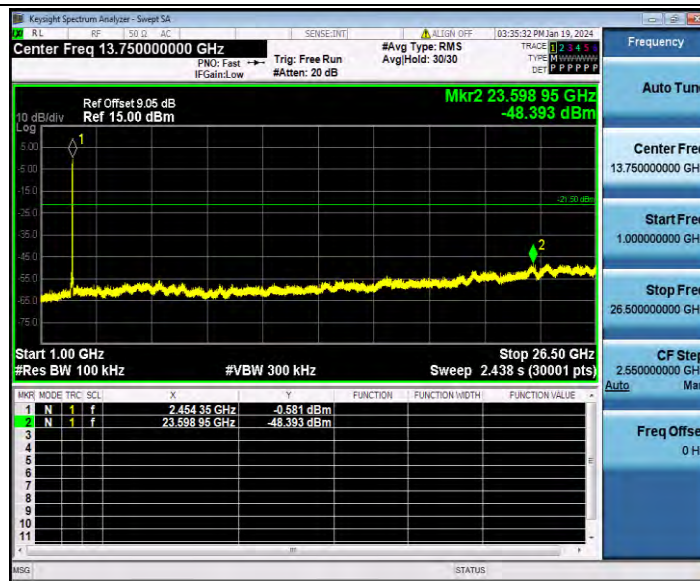
11G_Ant1_2462_0~Reference



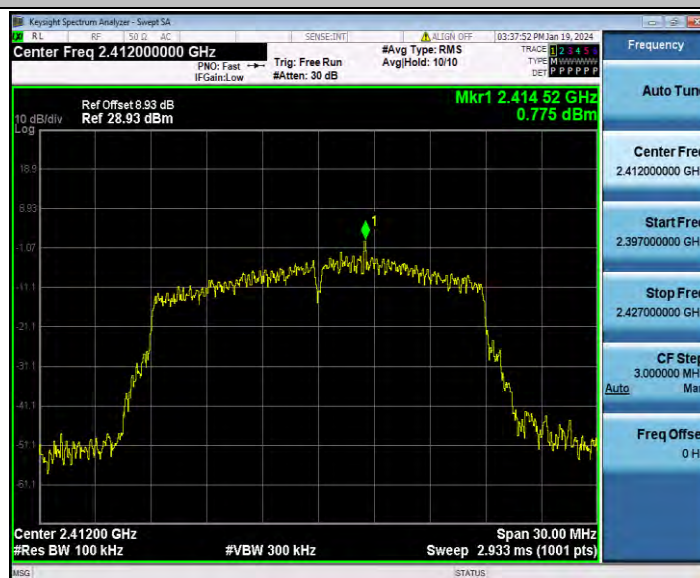
11G_Ant1_2462_30~1000



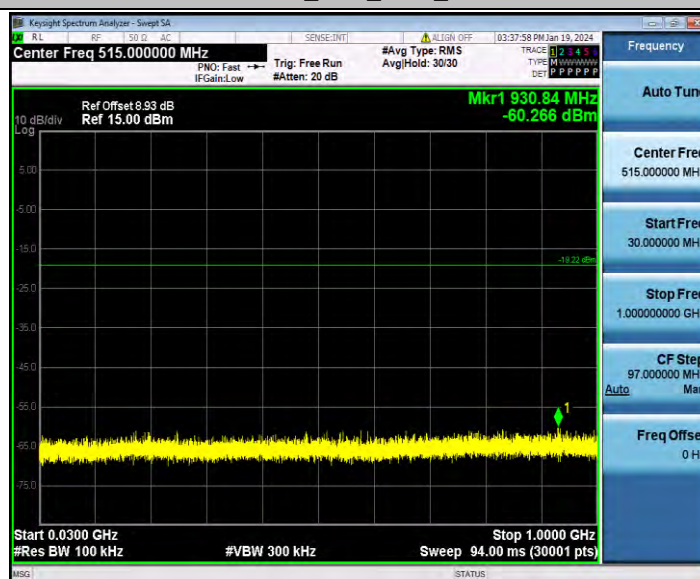
11G_Ant1_2462_1000~26500



11N20ISO_Ant1_2412_0~Reference



11N20ISO_Ant1_2412_30~1000



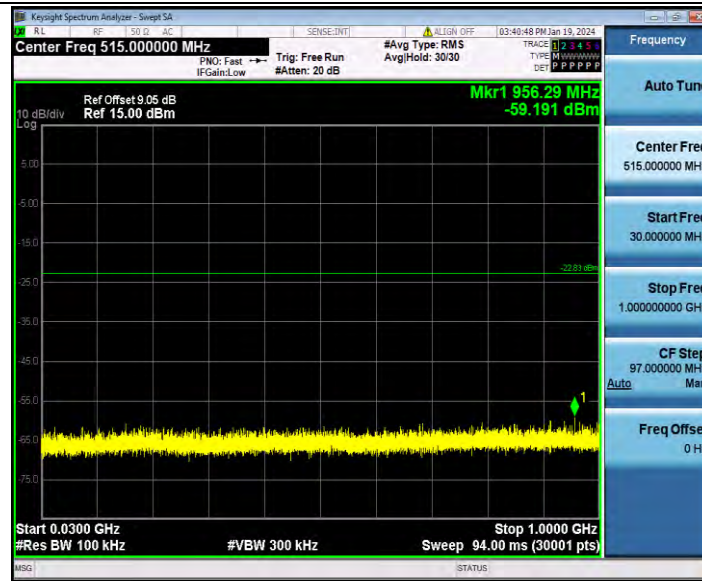
11N20SISO_Ant1_2412_1000~26500



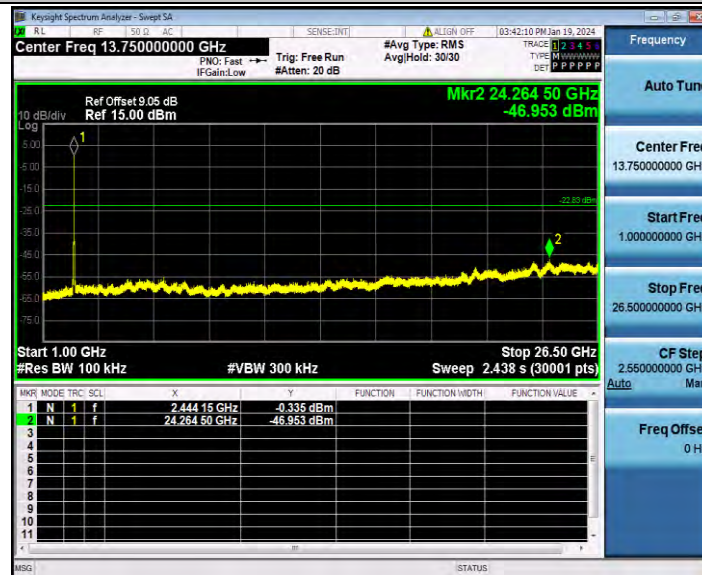
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



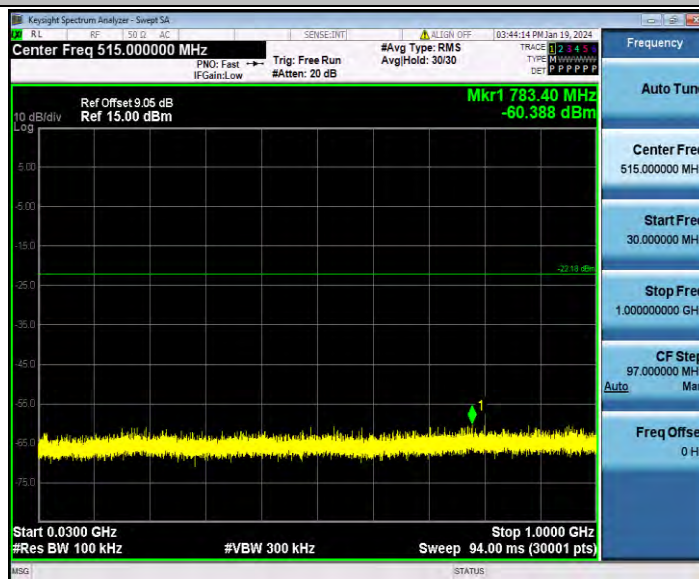
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



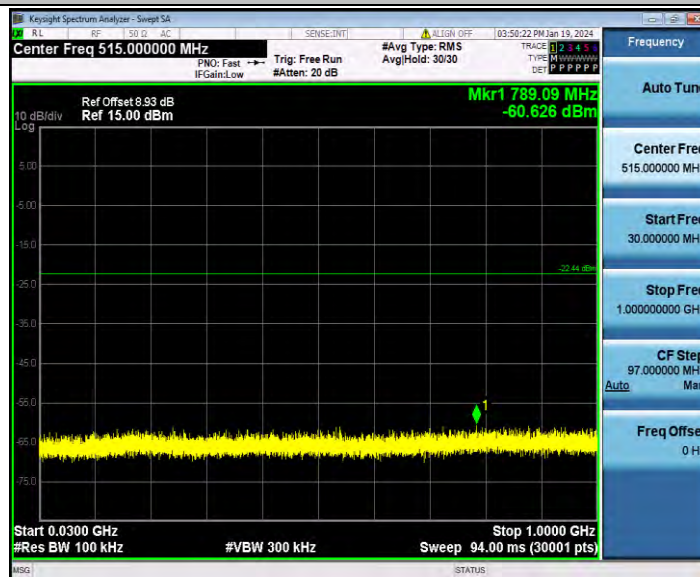
11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



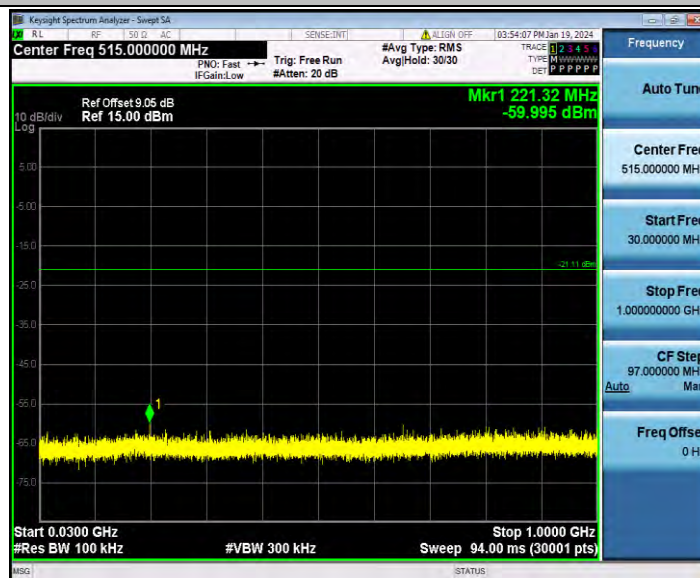
11N40SISO_Ant1_2422_1000~26500



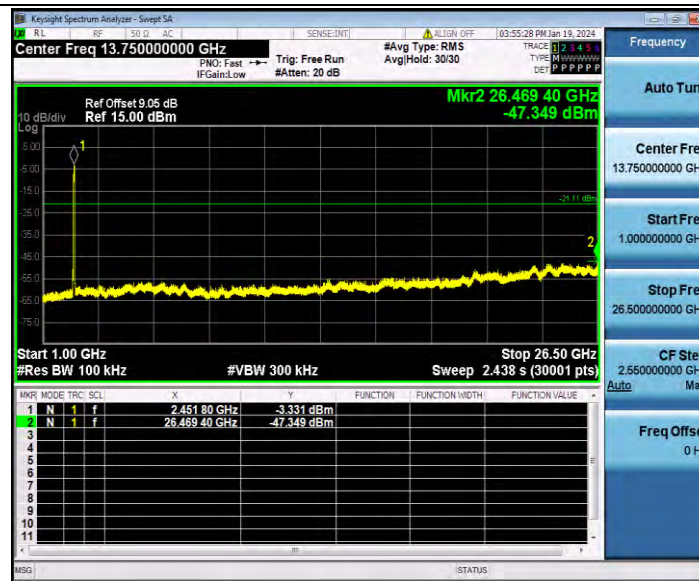
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



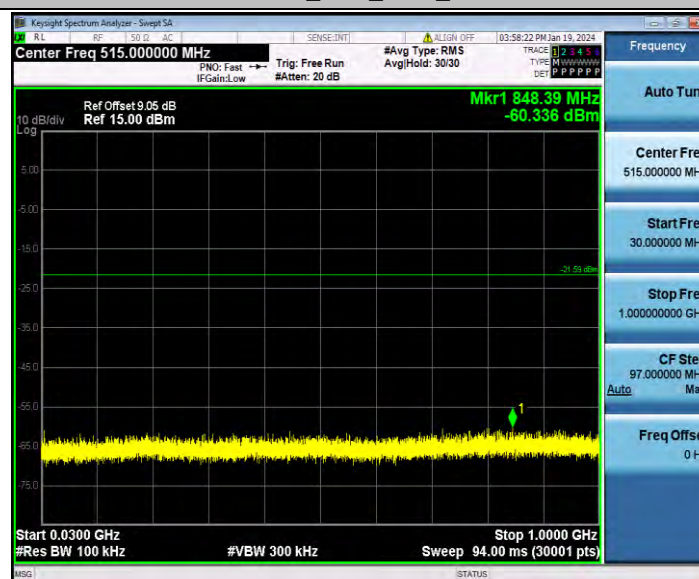
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000





Appendix C.7: Emissions in Restricted Bands

Test Result

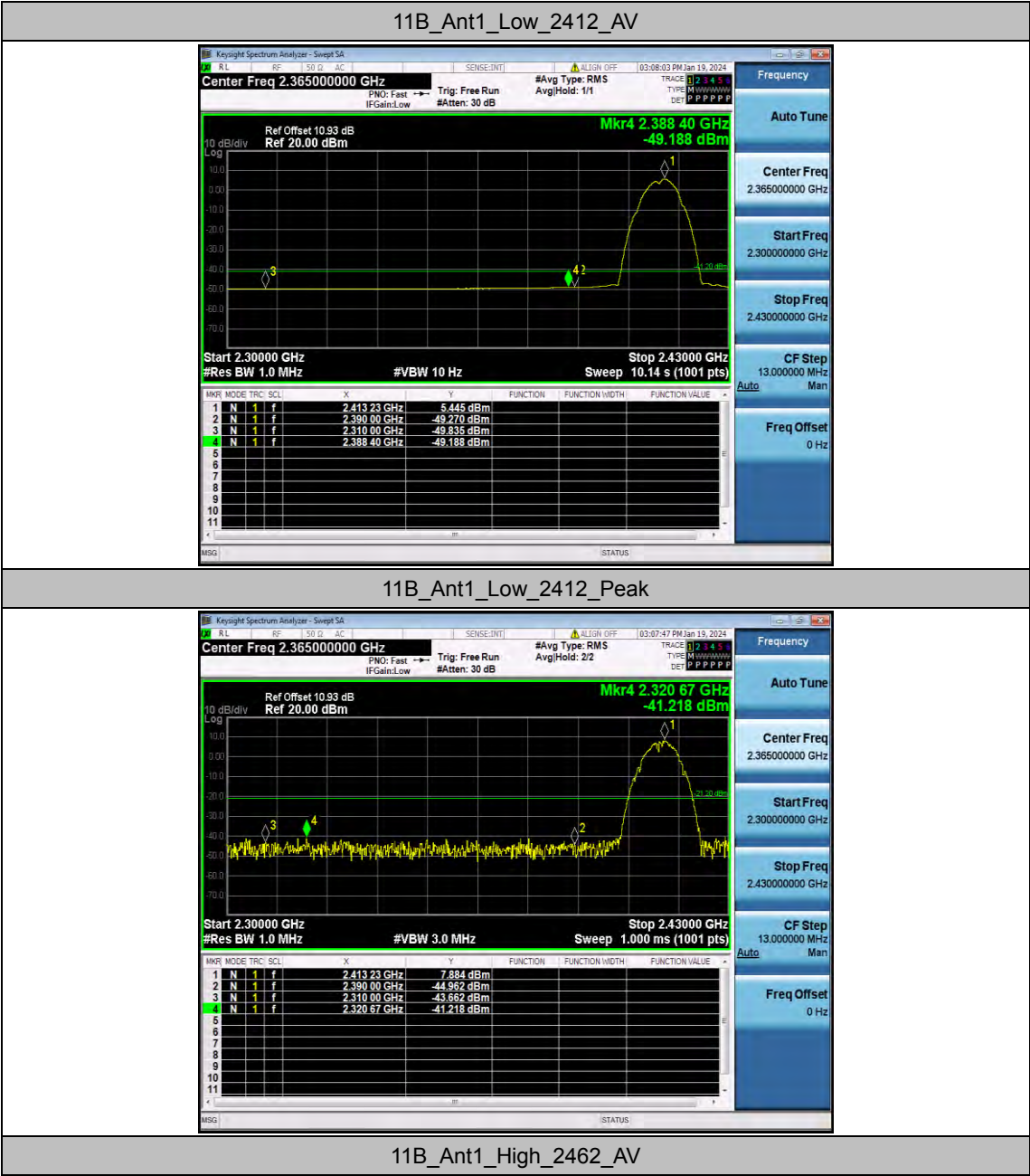
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.84	≤-41.20	45.36	≤54	PASS
				AV	2388.400	-49.19	≤-41.20	46.01	≤54	PASS
				AV	2390.000	-49.27	≤-41.20	45.93	≤54	PASS
				Peak	2310.000	-43.66	≤-21.20	51.54	≤74	PASS
				Peak	2320.670	-41.22	≤-21.20	53.98	≤74	PASS
				Peak	2390.000	-44.96	≤-21.20	50.24	≤74	PASS
		High	2462	AV	2483.500	-49.07	≤-41.20	46.13	≤54	PASS
				AV	2491.260	-49.06	≤-41.20	46.14	≤54	PASS
				AV	2500.000	-49.12	≤-41.20	46.08	≤54	PASS
				Peak	2483.500	-46.3	≤-21.20	48.90	≤74	PASS
				Peak	2495.000	-41.55	≤-21.20	53.65	≤74	PASS
				Peak	2500.000	-43.7	≤-21.20	51.50	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.83	≤-41.20	45.37	≤54	PASS
				AV	2389.050	-48.02	≤-41.20	47.18	≤54	PASS
				AV	2390.000	-48.1	≤-41.20	47.10	≤54	PASS
				Peak	2310.000	-45.49	≤-21.20	49.71	≤74	PASS
				Peak	2384.370	-40.95	≤-21.20	54.25	≤74	PASS
				Peak	2390.000	-45.18	≤-21.20	50.02	≤74	PASS
		High	2462	AV	2483.500	-47.71	≤-41.20	47.49	≤54	PASS
				AV	2483.560	-47.78	≤-41.20	47.42	≤54	PASS
				AV	2500.000	-49.12	≤-41.20	46.08	≤54	PASS
				Peak	2483.500	-48.04	≤-21.20	47.16	≤74	PASS
				Peak	2490.490	-41.41	≤-21.20	53.79	≤74	PASS
				Peak	2500.000	-50.79	≤-21.20	44.41	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.85	≤-41.20	45.35	≤54	PASS
				AV	2388.530	-48.13	≤-41.20	47.07	≤54	PASS
				AV	2390.000	-48.2	≤-41.20	47.00	≤54	PASS
				Peak	2310.000	-45.7	≤-21.20	49.50	≤74	PASS
				Peak	2363.570	-40.63	≤-21.20	54.57	≤74	PASS
				Peak	2390.000	-47.68	≤-21.20	47.52	≤74	PASS
		High	2462	AV	2483.500	-47.79	≤-41.20	47.41	≤54	PASS
				AV	2483.560	-47.84	≤-41.20	47.36	≤54	PASS
				AV	2500.000	-49.1	≤-41.20	46.10	≤54	PASS
				Peak	2483.500	-40.81	≤-21.20	54.39	≤74	PASS
				Peak	2484.110	-37.52	≤-21.20	57.68	≤74	PASS

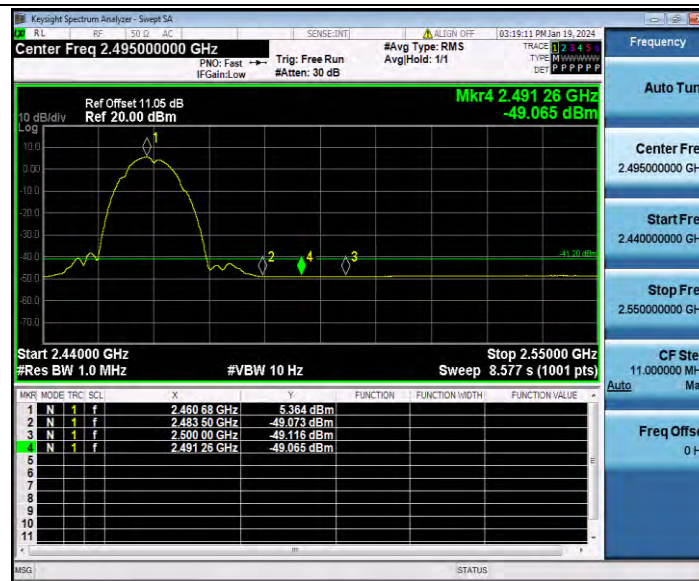
				Peak	2500.000	-50.11	≤ -21.20	45.09	≤ 74	PASS
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.83	≤ -41.20	45.37	≤ 54	PASS
				AV	2389.960	-43.89	≤ -41.20	51.31	≤ 54	PASS
				AV	2390.000	-43.89	≤ -41.20	51.31	≤ 54	PASS
				Peak	2310.000	-46.38	≤ -21.20	48.82	≤ 74	PASS
				Peak	2387.750	-37.64	≤ -21.20	57.56	≤ 74	PASS
				Peak	2390.000	-41.26	≤ -21.20	53.94	≤ 74	PASS
		High	2452	AV	2483.500	-44.82	≤ -41.20	50.38	≤ 54	PASS
				AV	2483.560	-45.03	≤ -41.20	50.17	≤ 54	PASS
				AV	2500.000	-49.13	≤ -41.20	46.07	≤ 54	PASS
				Peak	2483.500	-41.9	≤ -21.20	53.30	≤ 74	PASS
				Peak	2484.000	-36.67	≤ -21.20	58.53	≤ 74	PASS
				Peak	2500.000	-47.99	≤ -21.20	47.21	≤ 74	PASS

Note:

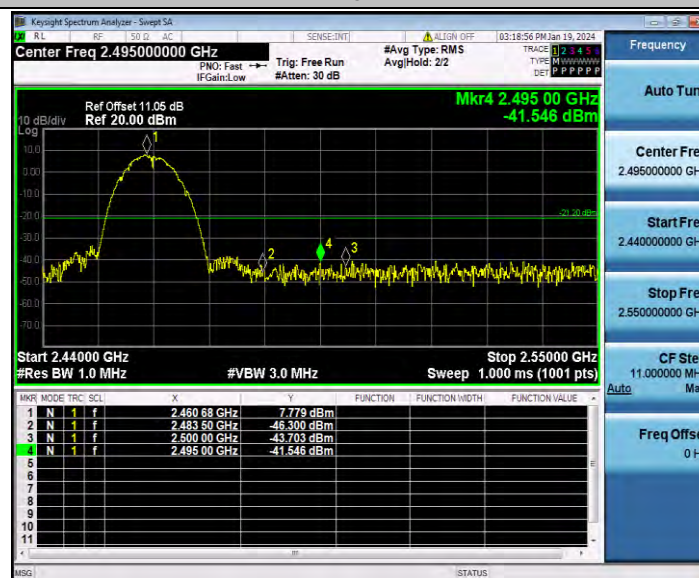
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

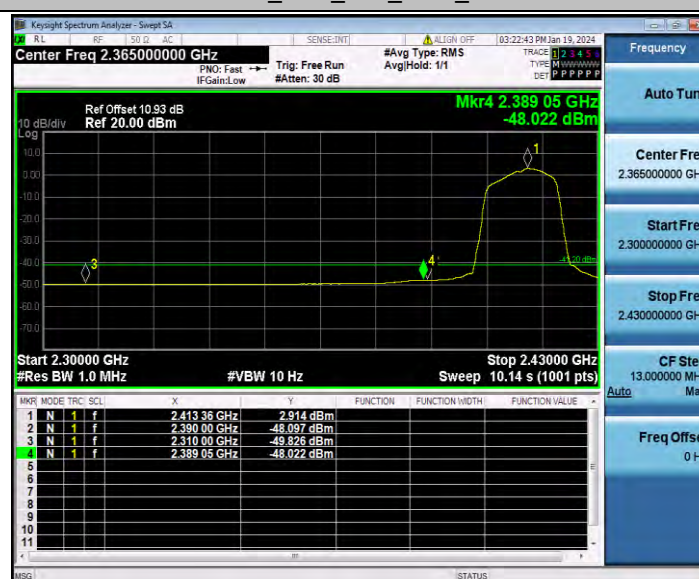




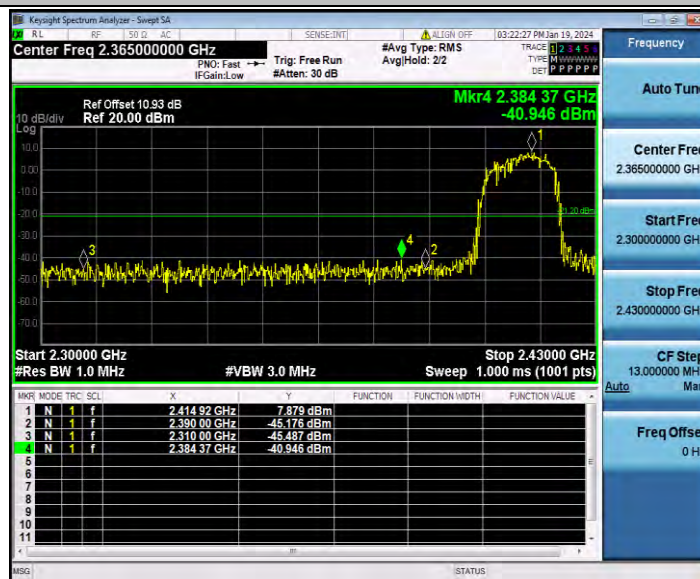
11B_Ant1_High_2462_Peak



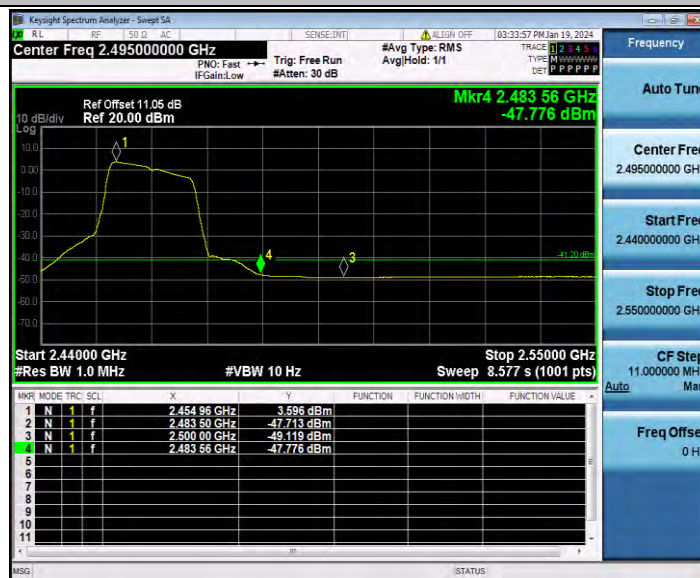
11G_Ant1_Low_2412_AV



11G_Ant1_Low_2412_Peak



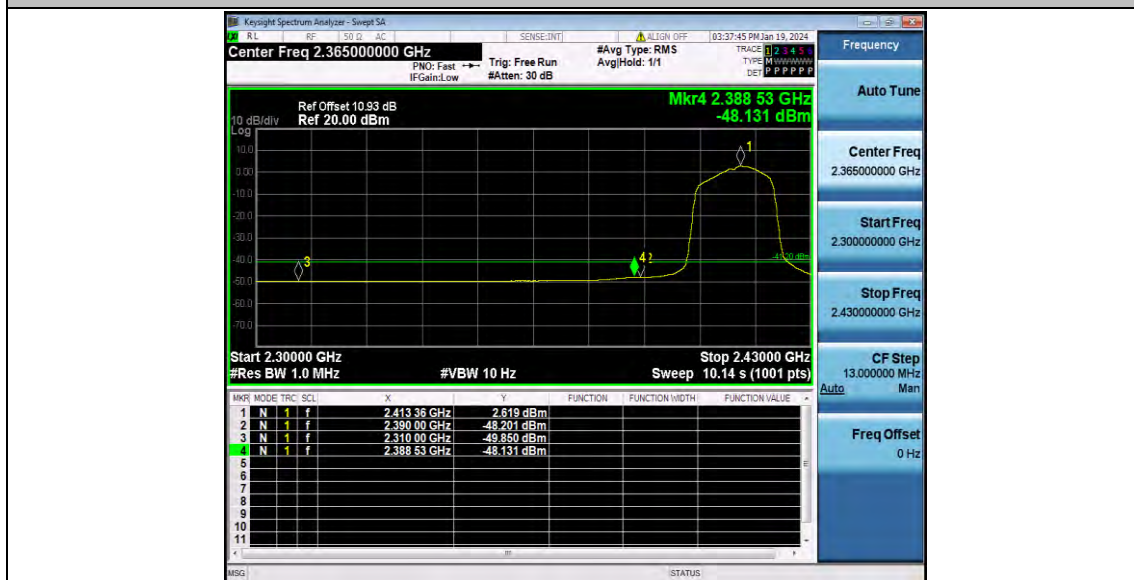
11G_Ant1_High_2462_AV



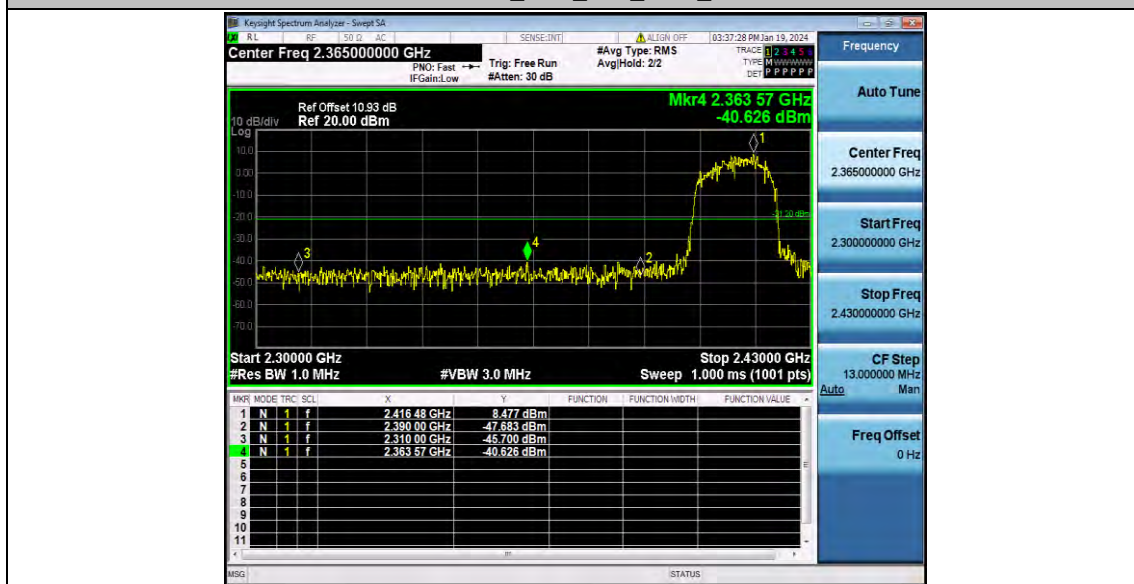
11G_Ant1_High_2462_Peak



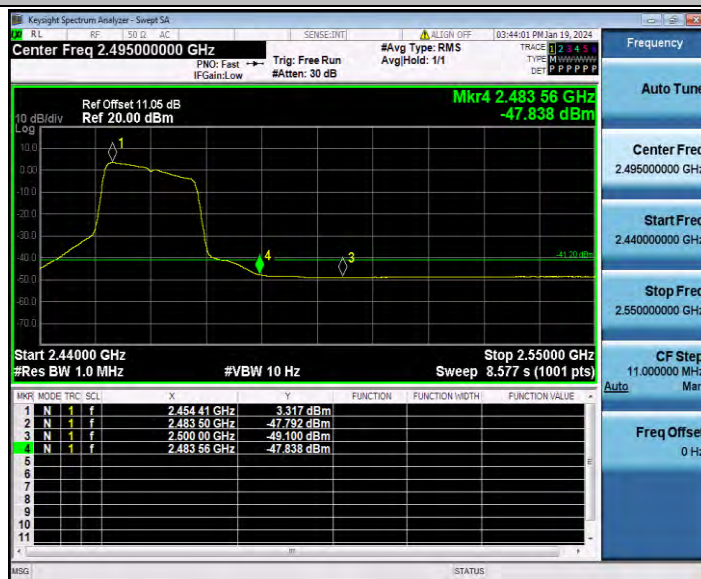
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV

