

Case No. : <u>GTS20241017023-3-02</u>	
Ambient Condition: <u>22</u> °C, <u>52</u> %RH,	
Test Date: <u>2024.12.4</u>	Test Engineer: <u>Evan ouyang</u>

Appendix B.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.600	2408.440	2416.040	0.5	PASS
		2437	7.080	2433.480	2440.560	0.5	PASS
		2462	7.080	2458.440	2465.520	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.240	2420.880	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.720	2440.160	0.5	PASS
		2437	35.440	2419.720	2455.160	0.5	PASS
		2452	36.320	2433.840	2470.160	0.5	PASS

Test Graphs

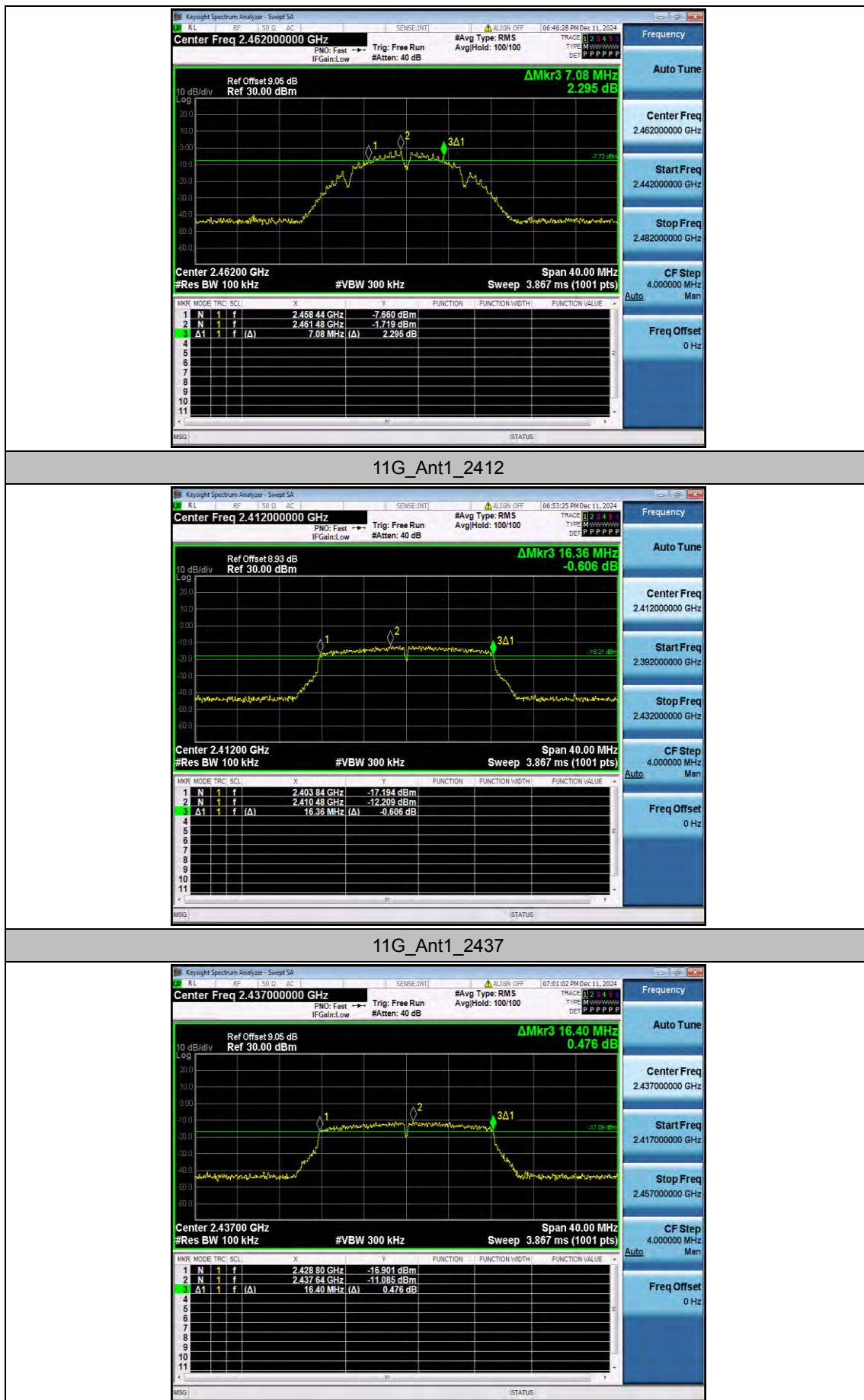
11B_Ant1_2412



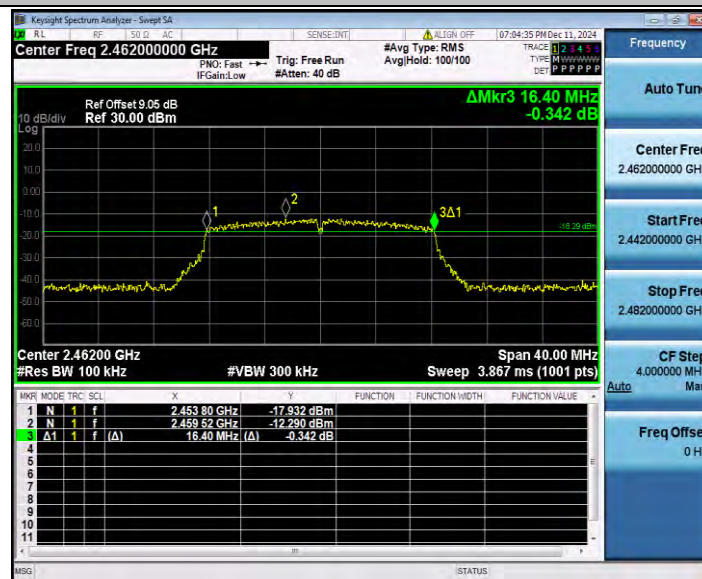
11B_Ant1_2437



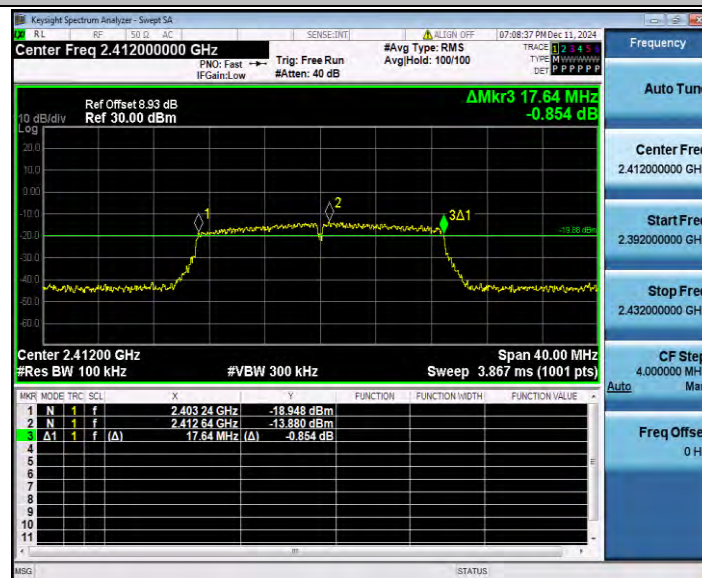
11B_Ant1_2462



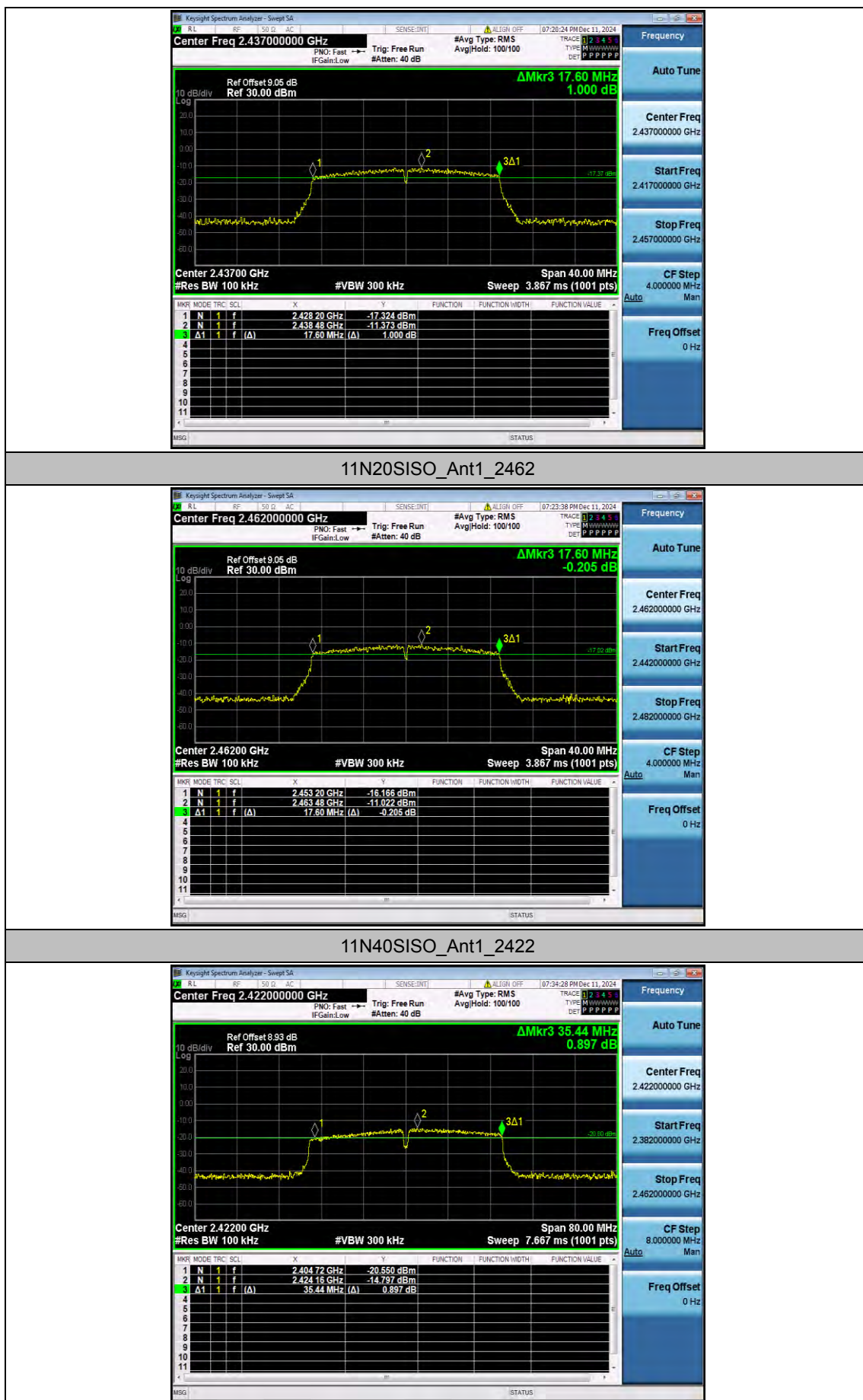
11G_Ant1_2462



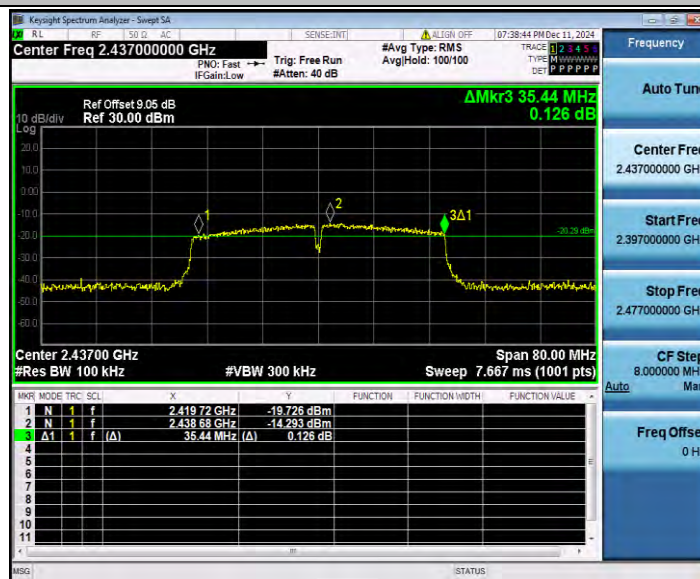
11N20SISO_Ant1_2412



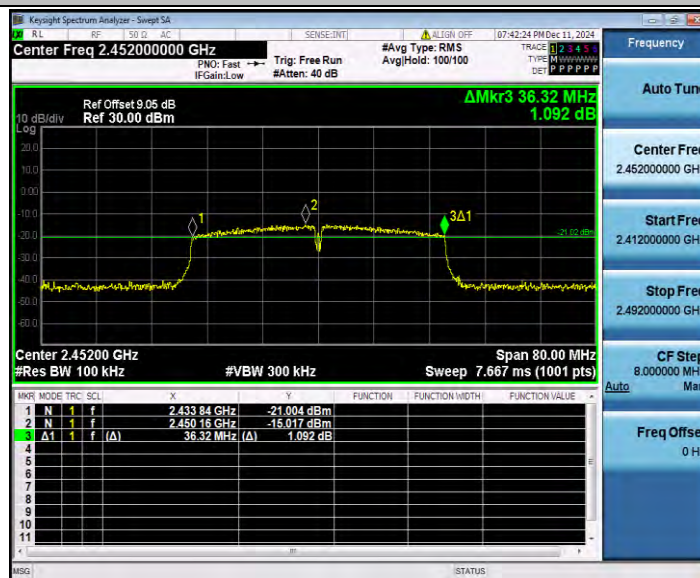
11N20SISO_Ant1_2437



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



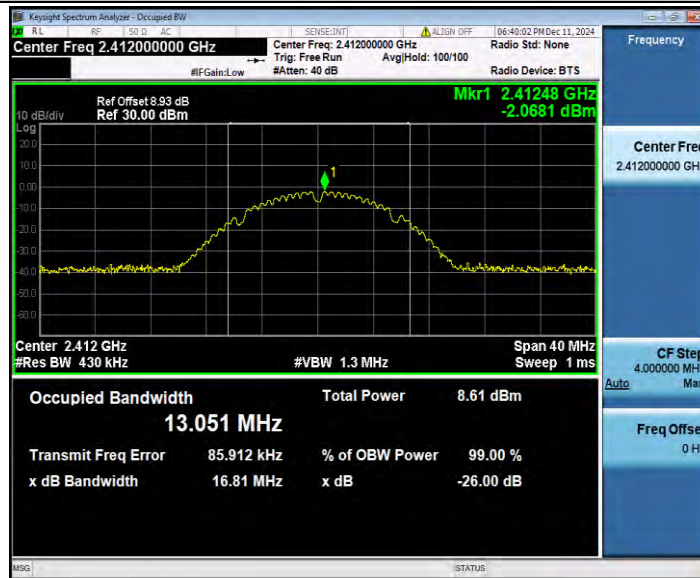
Appendix B.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.051	2405.5604	2418.6114	---	---
		2437	13.002	2430.5451	2443.5471	---	---
		2462	12.992	2455.5286	2468.5206	---	---
11G	Ant1	2412	16.965	2403.5546	2420.5196	---	---
		2437	16.883	2428.6527	2445.5357	---	---
		2462	16.857	2453.5920	2470.4490	---	---
11N20SISO	Ant1	2412	17.952	2403.1137	2421.0657	---	---
		2437	17.877	2428.0961	2445.9731	---	---
		2462	17.879	2453.0949	2470.9739	---	---
11N40SISO	Ant1	2422	36.378	2404.0161	2440.3941	---	---
		2437	36.330	2418.9493	2455.2793	---	---
		2452	36.389	2433.8820	2470.2710	---	---

Test Graphs

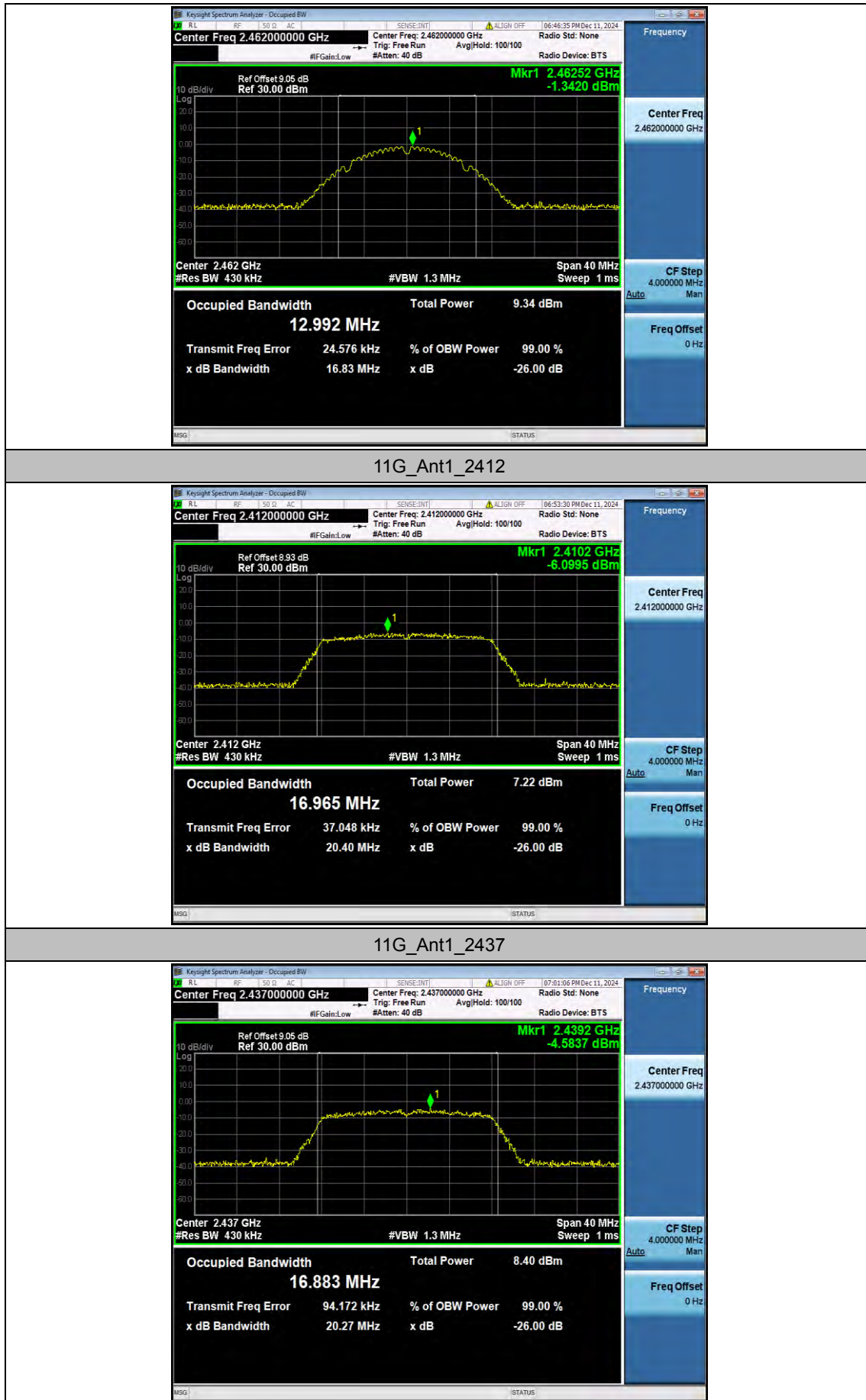
11B_Ant1_2412



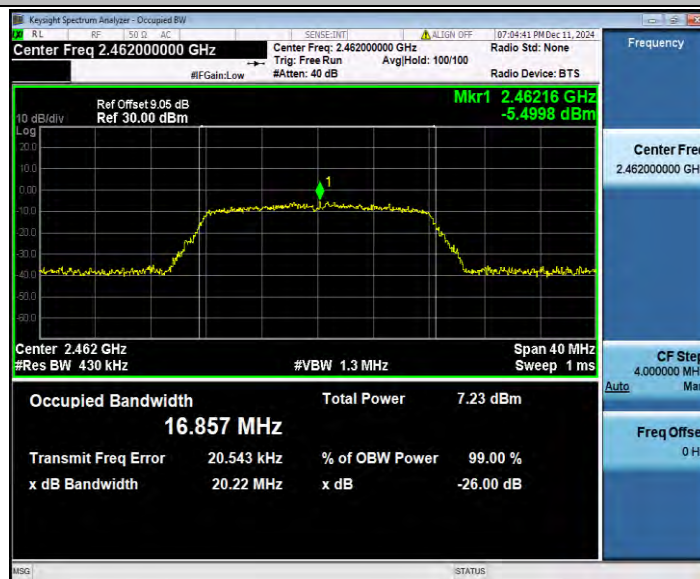
11B_Ant1_2437



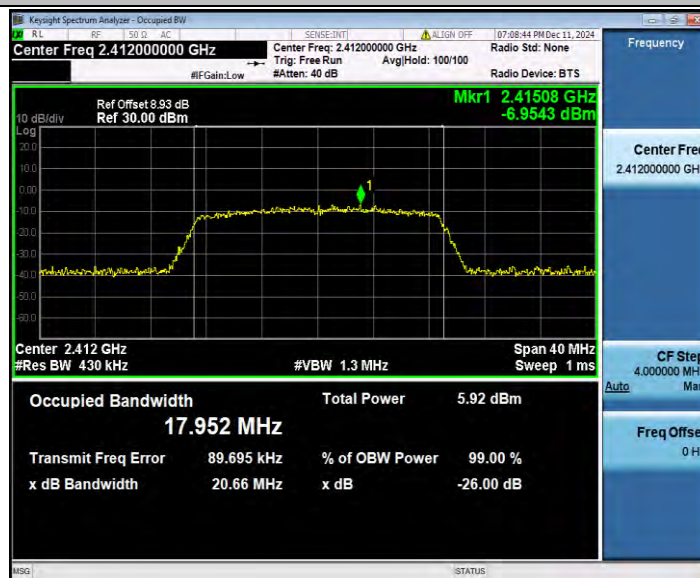
11B_Ant1_2462



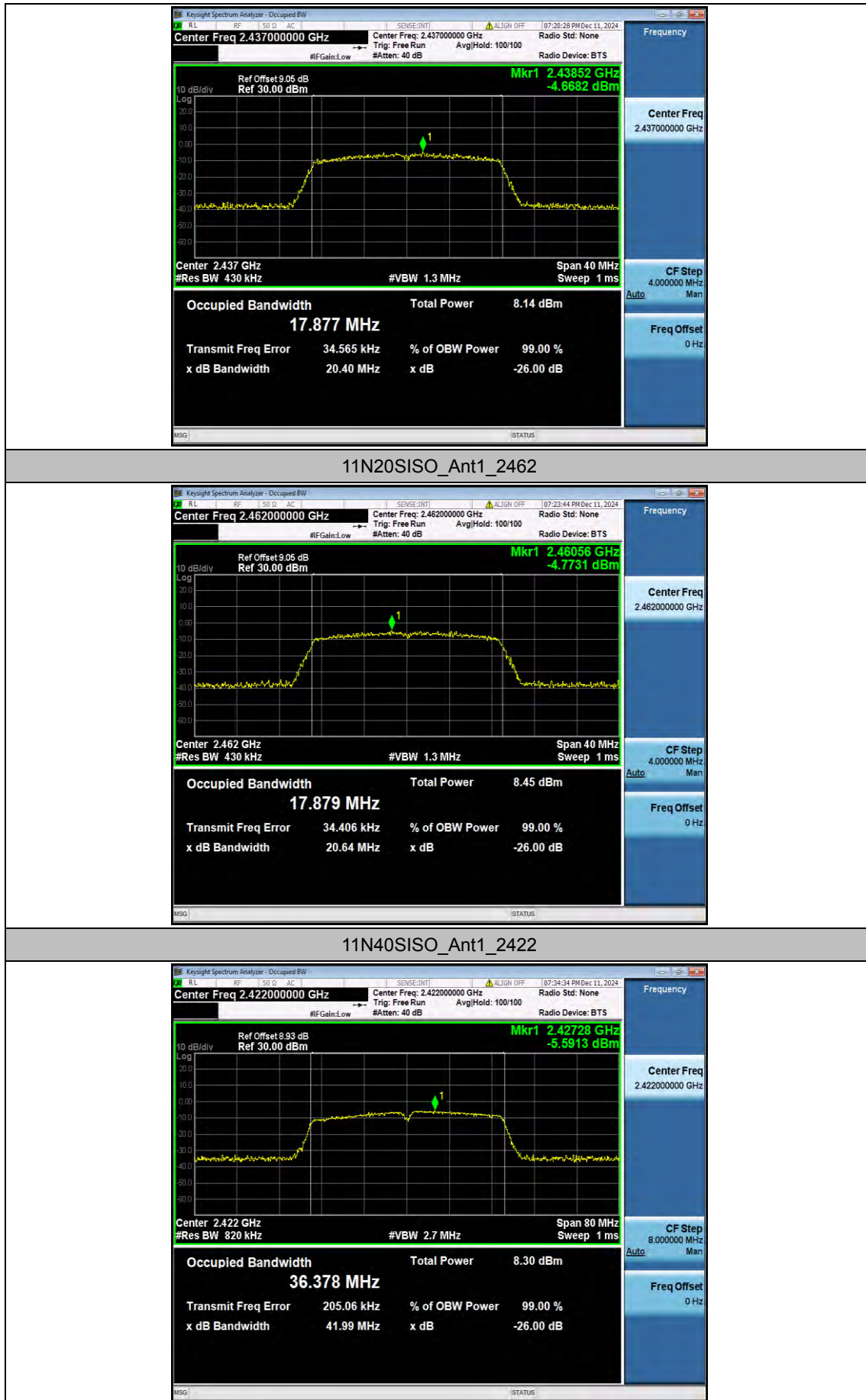
11G_Ant1_2462



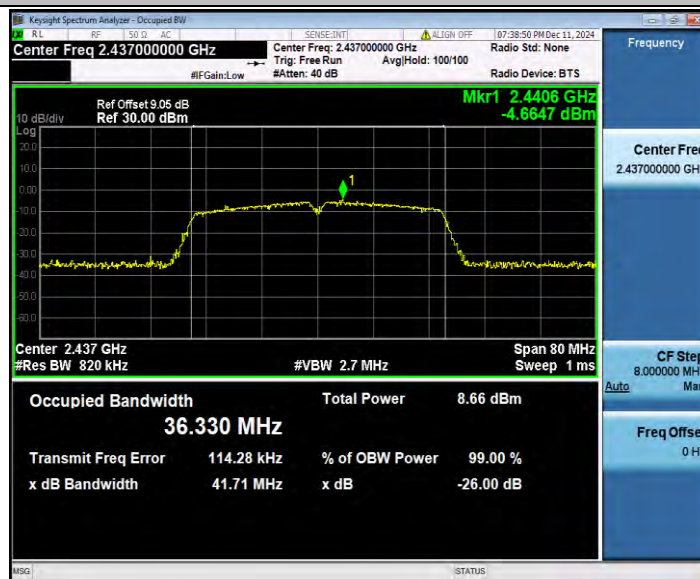
11N20SISO_Ant1_2412



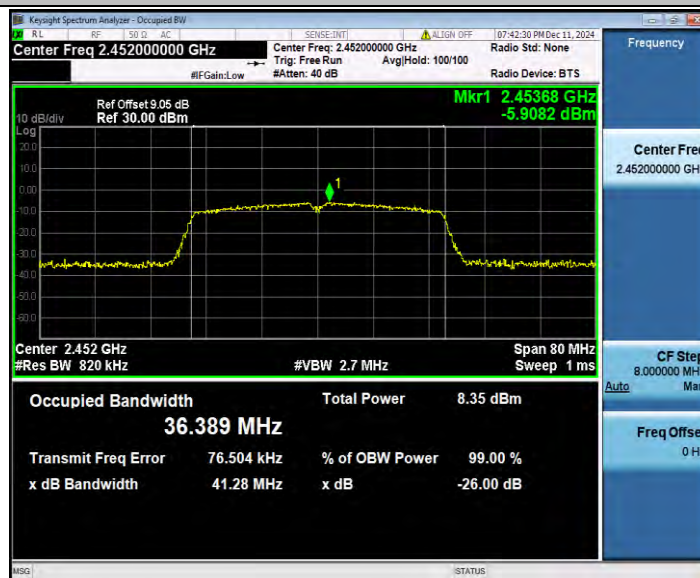
11N20SISO_Ant1_2437



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix B.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	8.66	≤30.00	PASS
		2437	8.20	≤30.00	PASS
		2462	8.41	≤30.00	PASS
11G	Ant1	2412	8.44	≤30.00	PASS
		2437	8.58	≤30.00	PASS
		2462	8.40	≤30.00	PASS
11N20SISO	Ant1	2412	7.04	≤30.00	PASS
		2437	8.37	≤30.00	PASS
		2462	8.63	≤30.00	PASS
11N40SISO	Ant1	2422	8.62	≤30.00	PASS
		2437	8.07	≤30.00	PASS
		2452	8.71	≤30.00	PASS

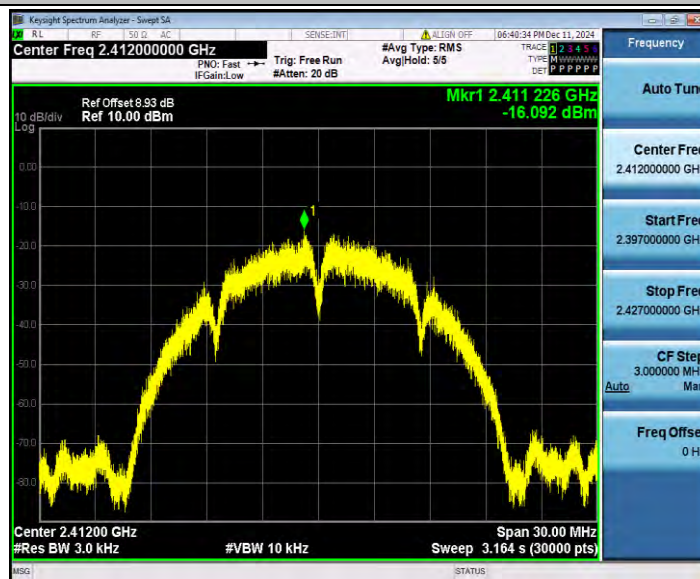
Appendix B.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.09	≤8.00	PASS
		2437	-15.83	≤8.00	PASS
		2462	-16.27	≤8.00	PASS
11G	Ant1	2412	-23.62	≤8.00	PASS
		2437	-22.37	≤8.00	PASS
		2462	-22.12	≤8.00	PASS
11N20SISO	Ant1	2412	-24.91	≤8.00	PASS
		2437	-22.96	≤8.00	PASS
		2462	-22.41	≤8.00	PASS
11N40SISO	Ant1	2422	-25.70	≤8.00	PASS
		2437	-26.39	≤8.00	PASS
		2452	-22.40	≤8.00	PASS

Test Graphs

11B_Ant1_2412



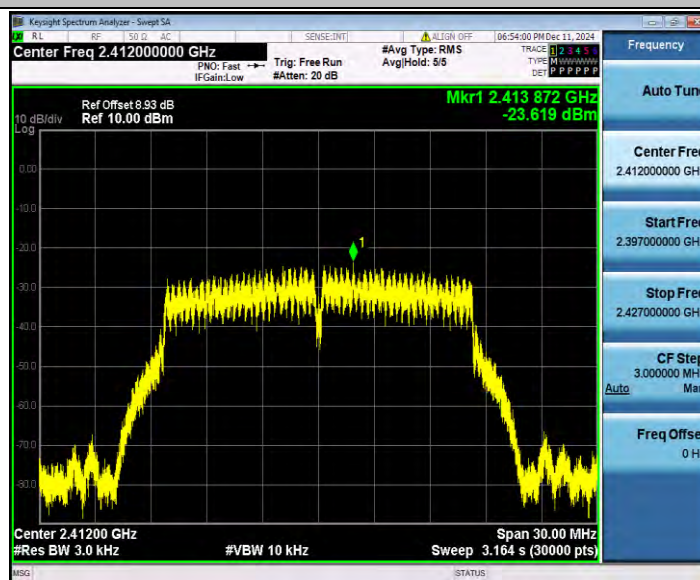
11B_Ant1_2437



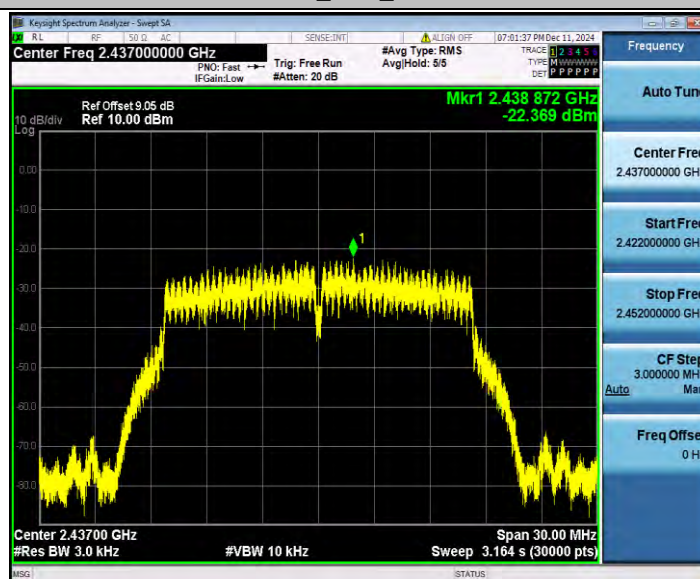
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



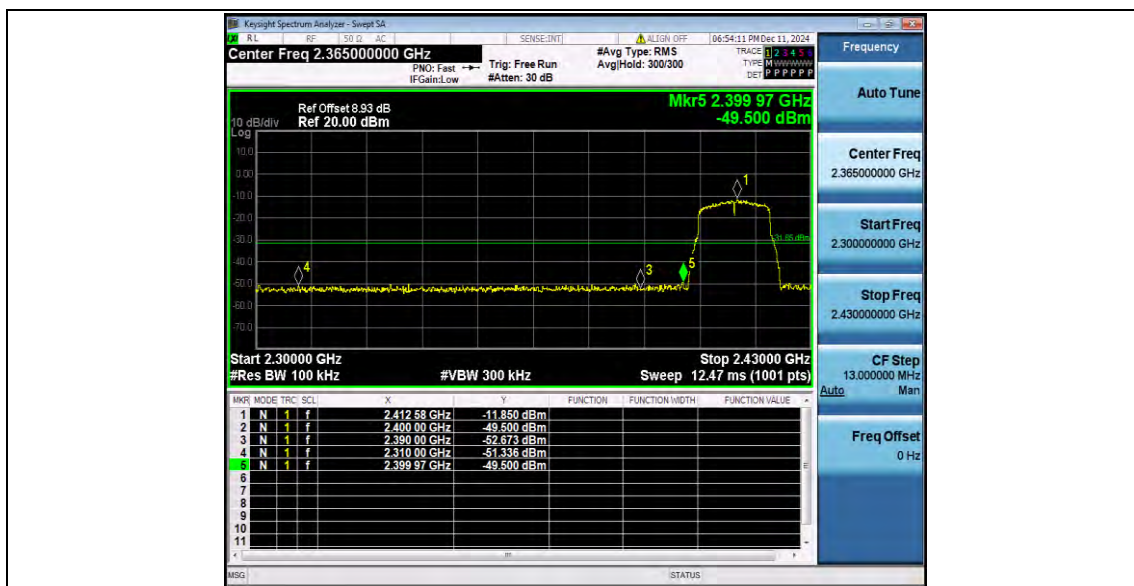
11N40SISO_Ant1_2452



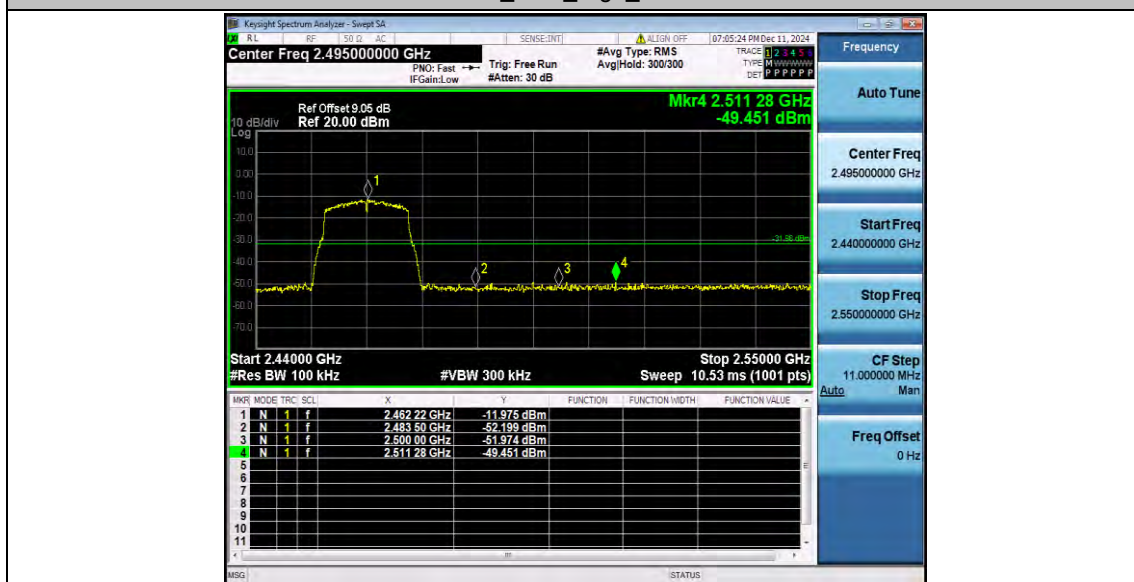
Appendix B.5: Band edge measurements

Test Result

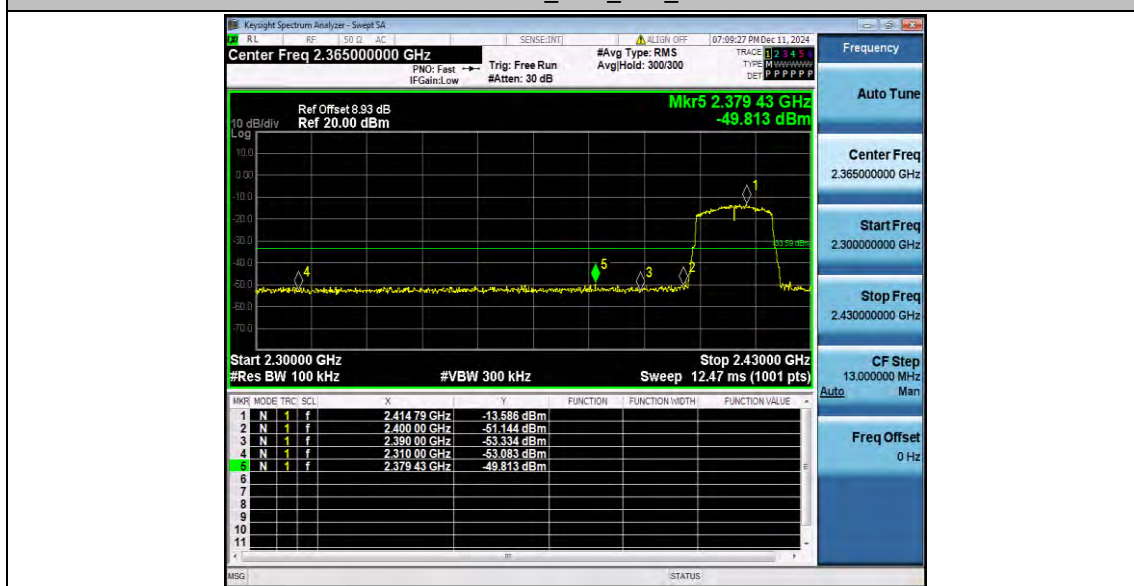
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-2.52	-49.24	≤ -22.52	PASS
		High	2462	-1.52	-48.6	≤ -21.52	PASS
11G	Ant1	Low	2412	-11.85	-49.5	≤ -31.85	PASS
		High	2462	-11.98	-49.45	≤ -31.98	PASS
11N20SISO	Ant1	Low	2412	-13.59	-49.81	≤ -33.59	PASS
		High	2462	-11.02	-49.37	≤ -31.02	PASS
11N40SISO	Ant1	Low	2422	-14.65	-49.59	≤ -34.65	PASS
		High	2452	-14.63	-49.09	≤ -34.63	PASS



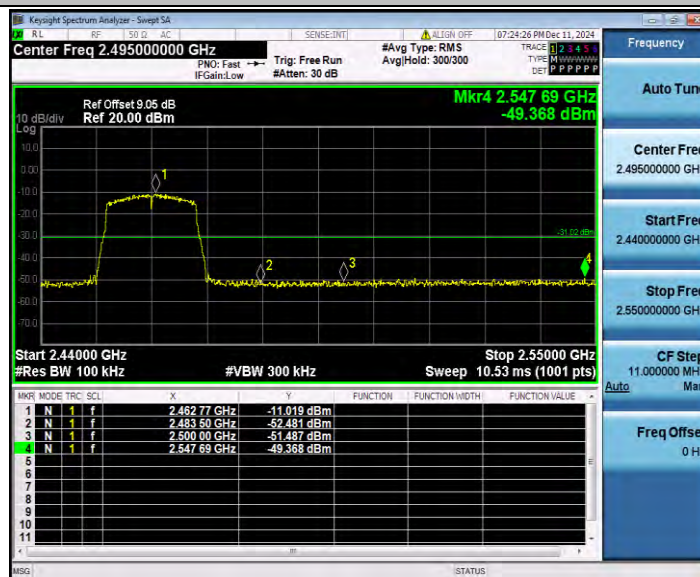
11G_Ant1_High_2462



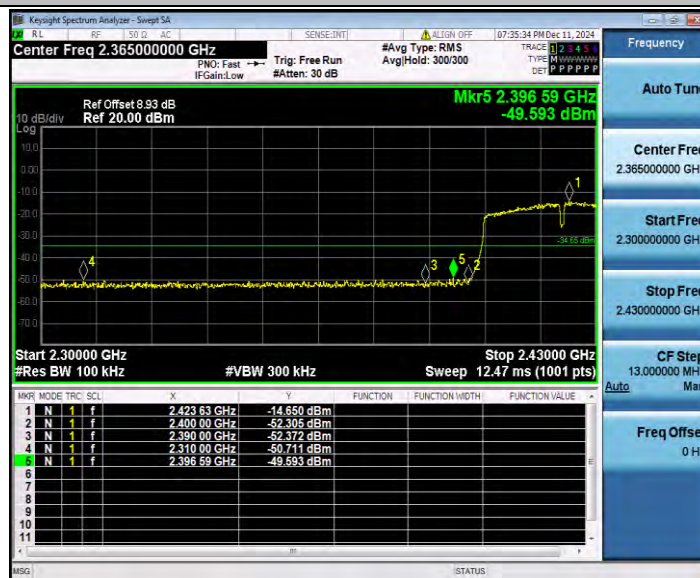
11N20SISO_Ant1_Low_2412



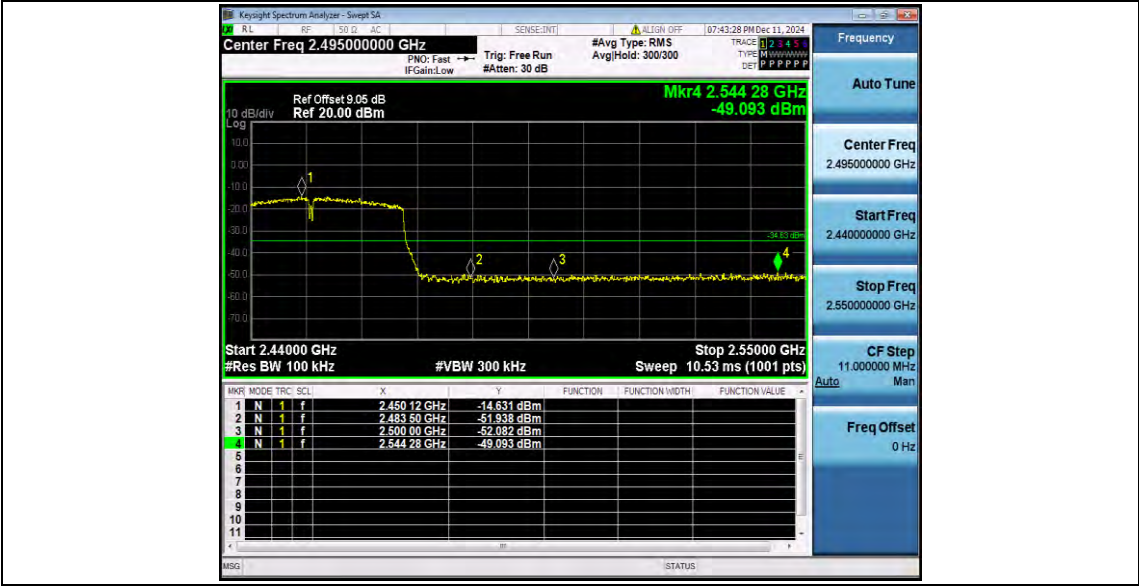
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

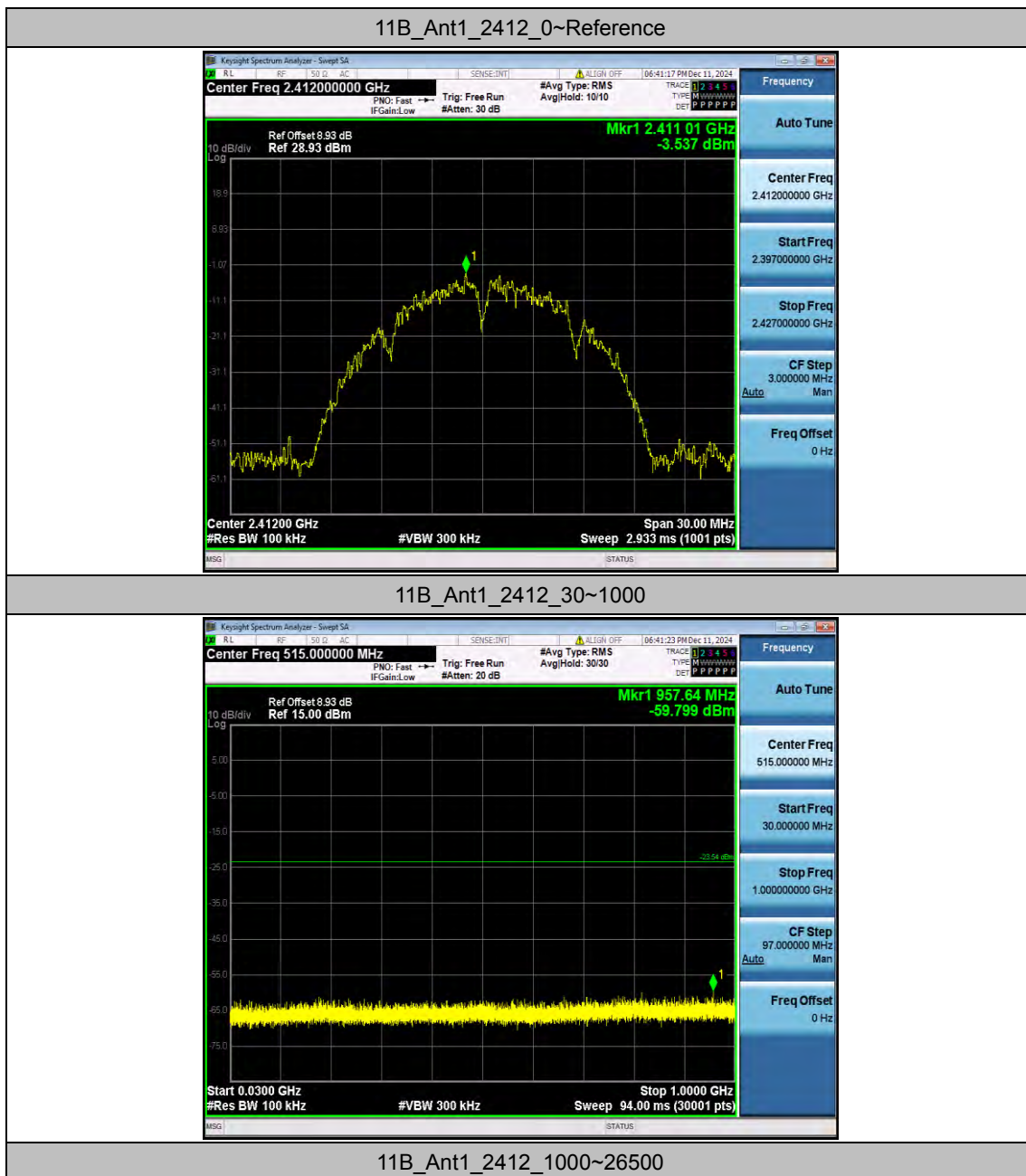


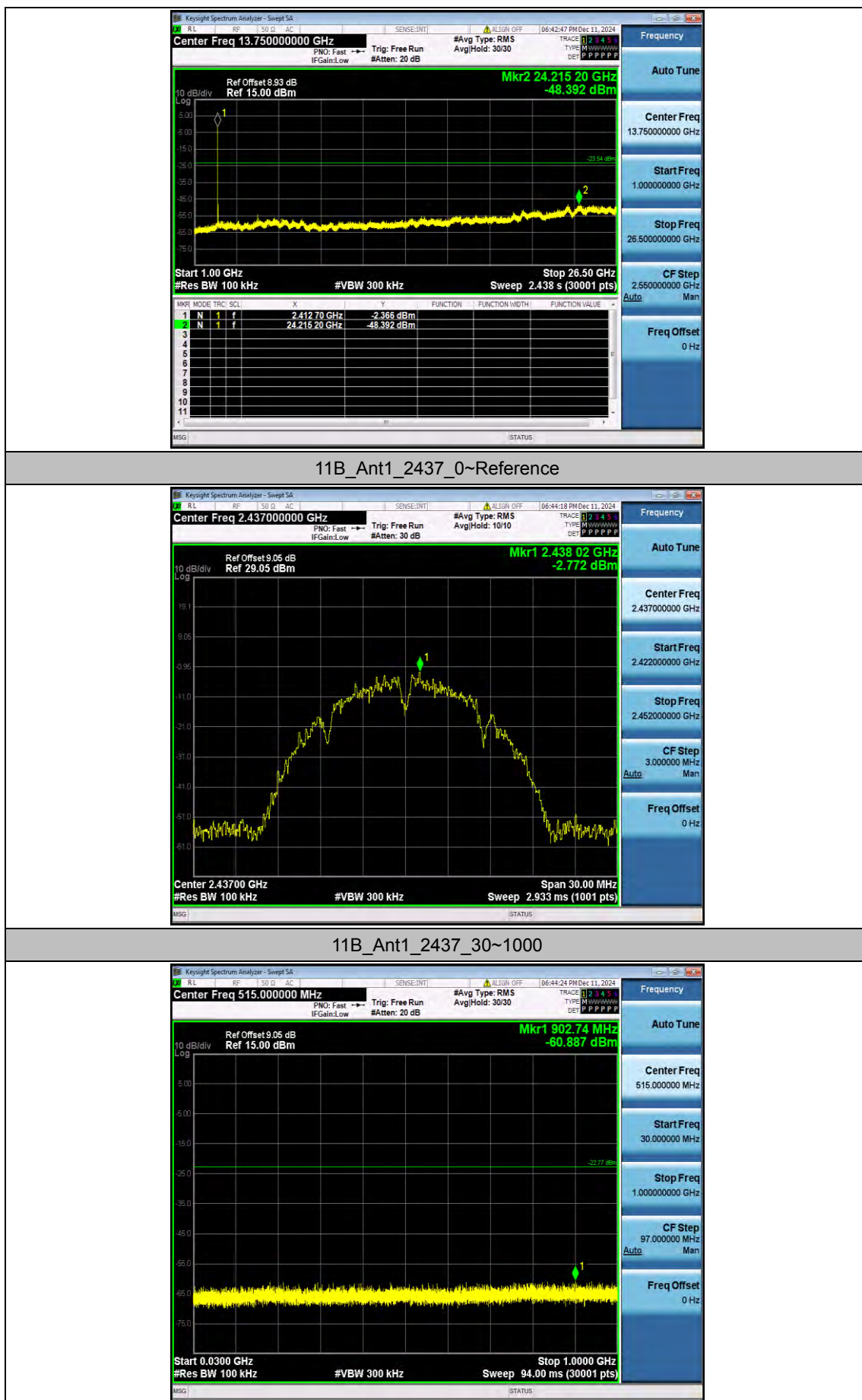
Appendix B.6: Conducted Spurious Emission

Test Result

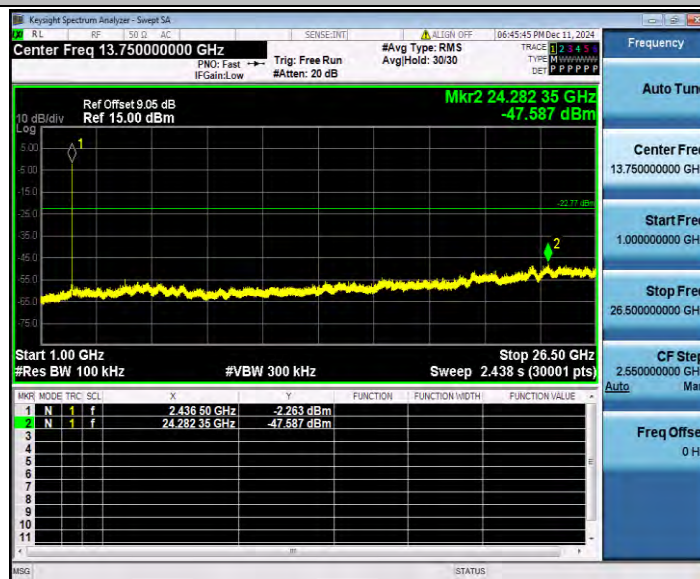
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-59.8	≤ -23.54	PASS
			1000~26500	-3.54	-48.39	≤ -23.54	PASS
		2437	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-60.89	≤ -22.77	PASS
			1000~26500	-2.77	-47.59	≤ -22.77	PASS
		2462	Reference	-3.46	-3.46	---	PASS
			30~1000	-3.46	-60.67	≤ -23.46	PASS
			1000~26500	-3.46	-47.93	≤ -23.46	PASS
11G	Ant1	2412	Reference	-12.76	-12.76	---	PASS
			30~1000	-12.76	-60.99	≤ -32.76	PASS
			1000~26500	-12.76	-47.46	≤ -32.76	PASS
		2437	Reference	-11.34	-11.34	---	PASS
			30~1000	-11.34	-60.61	≤ -31.34	PASS
			1000~26500	-11.34	-48.06	≤ -31.34	PASS
		2462	Reference	-12.33	-12.33	---	PASS
			30~1000	-12.33	-60.93	≤ -32.33	PASS
			1000~26500	-12.33	-47.24	≤ -32.33	PASS
11N20SISO	Ant1	2412	Reference	-14.55	-14.55	---	PASS
			30~1000	-14.55	-61.06	≤ -34.55	PASS
			1000~26500	-14.55	-47.98	≤ -34.55	PASS
		2437	Reference	-12.12	-12.12	---	PASS
			30~1000	-12.12	-60.54	≤ -32.12	PASS
			1000~26500	-12.12	-48.09	≤ -32.12	PASS
		2462	Reference	-11.52	-11.52	---	PASS
			30~1000	-11.52	-59.93	≤ -31.52	PASS
			1000~26500	-11.52	-47.83	≤ -31.52	PASS
11N40SISO	Ant1	2422	Reference	-14.91	-14.91	---	PASS
			30~1000	-14.91	-60.15	≤ -34.91	PASS
			1000~26500	-14.91	-47.55	≤ -34.91	PASS
		2437	Reference	-13.99	-13.99	---	PASS
			30~1000	-13.99	-60.12	≤ -33.99	PASS
			1000~26500	-13.99	-47.15	≤ -33.99	PASS
		2452	Reference	-14.77	-14.77	---	PASS
			30~1000	-14.77	-60.72	≤ -34.77	PASS
			1000~26500	-14.77	-47.8	≤ -34.77	PASS

Test Graphs





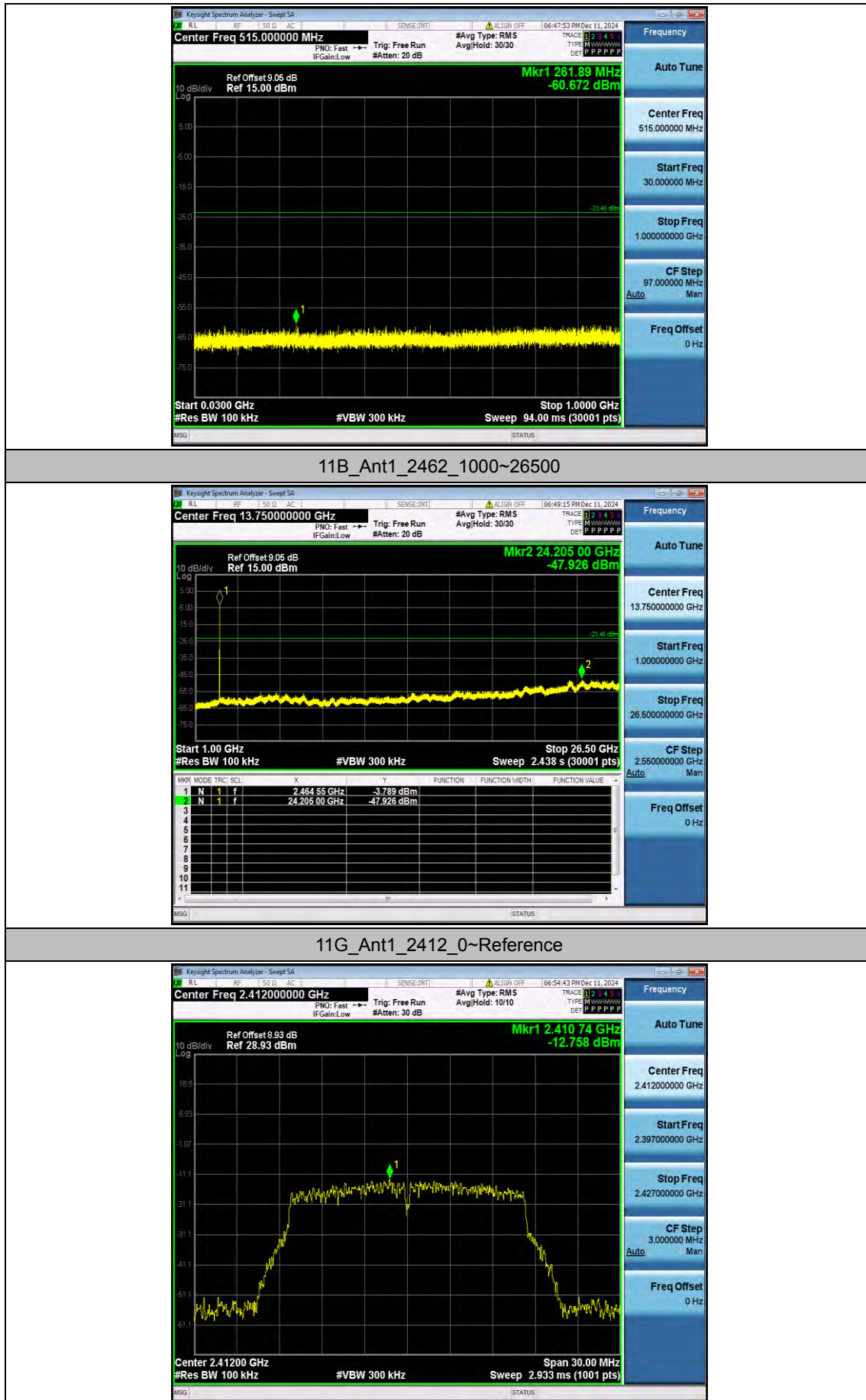
11B_Ant1_2437_1000~26500



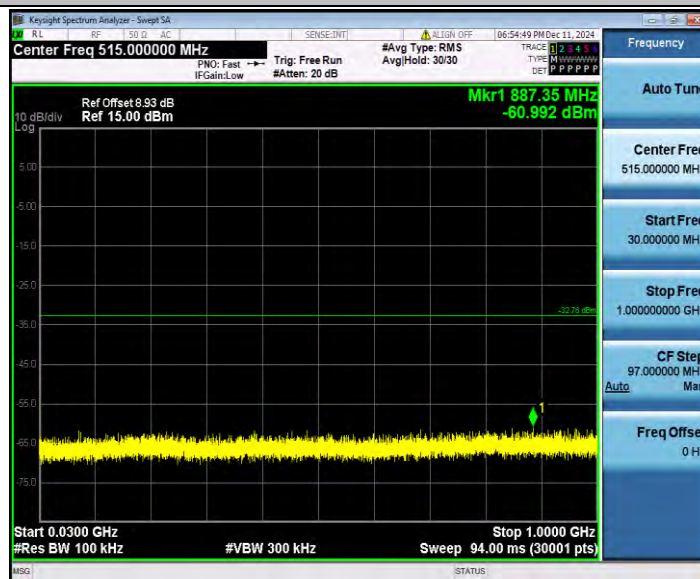
11B_Ant1_2462_0~Reference



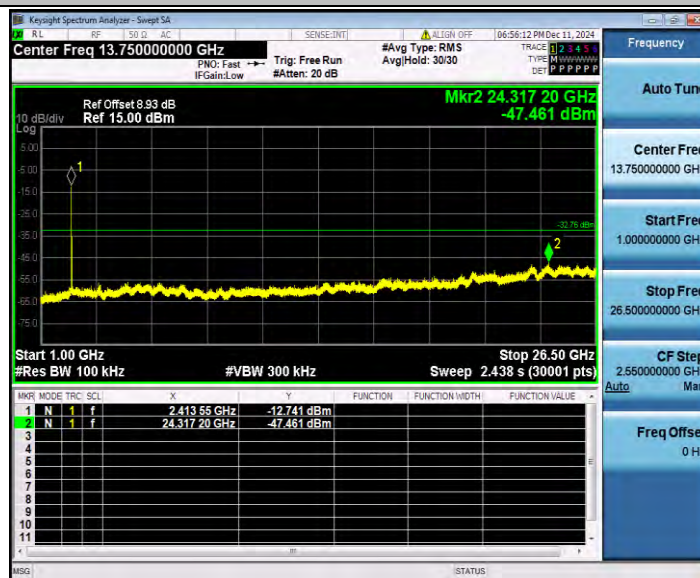
11B_Ant1_2462_30~1000



11G_Ant1_2412_30~1000



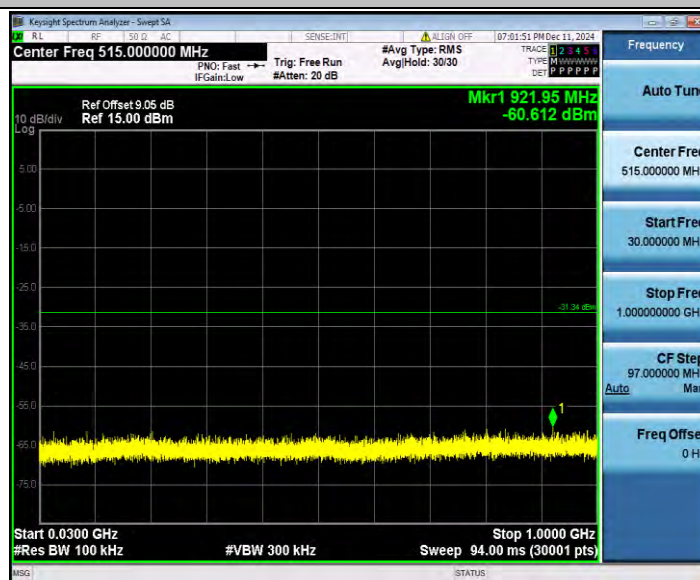
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



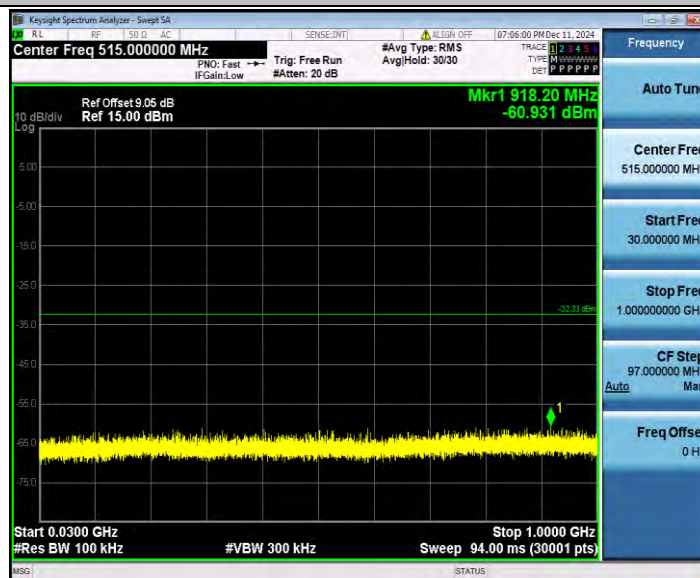
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



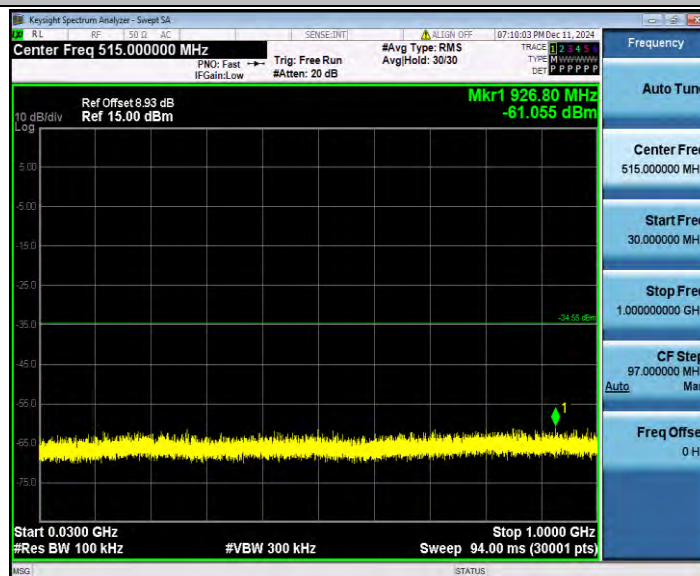
11G_Ant1_2462_1000~26500



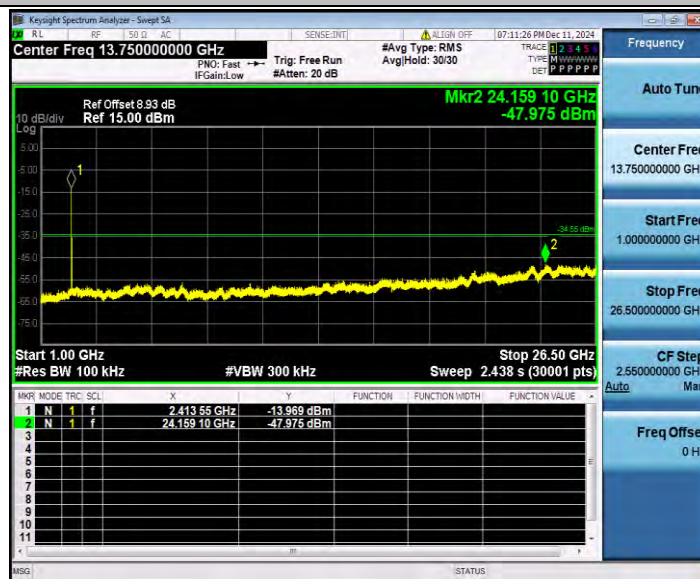
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



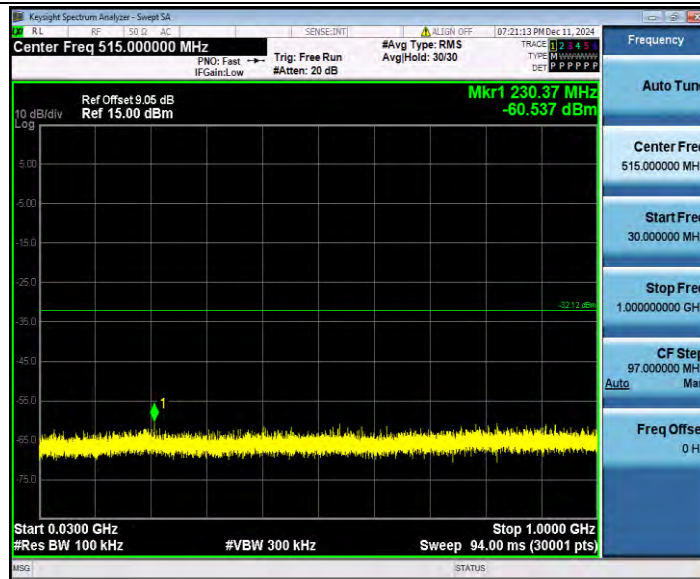
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



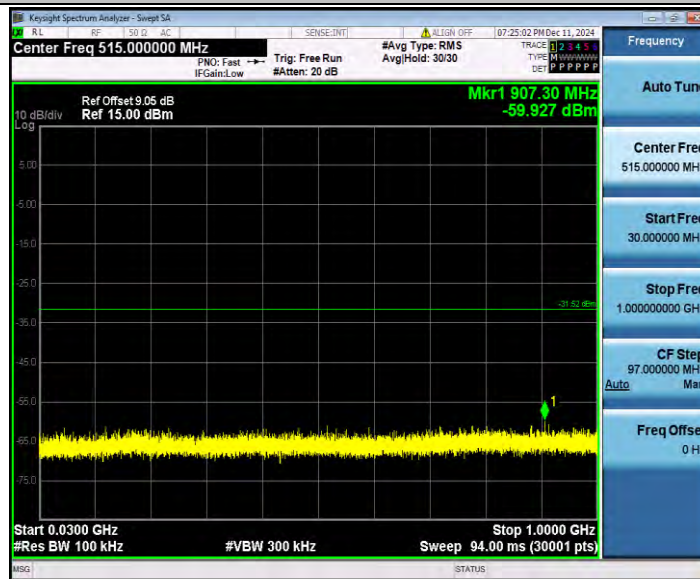
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



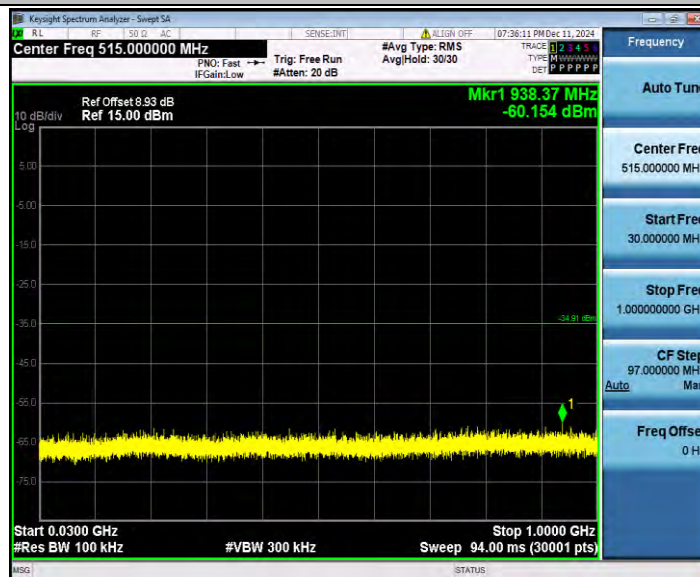
11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



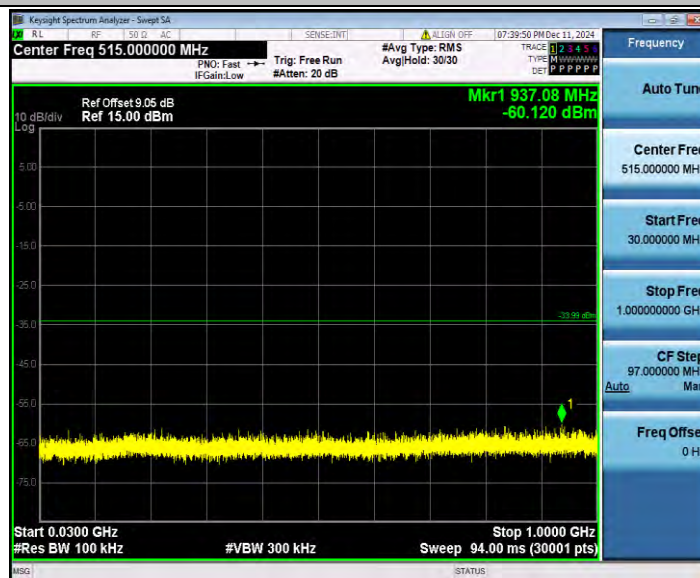
11N40SISO_Ant1_2422_1000~26500



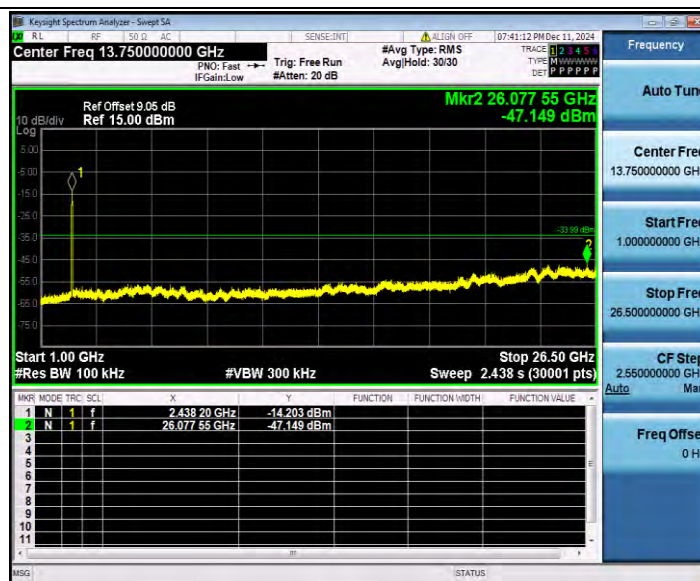
11N40SISO_Ant1_2437_0~Reference



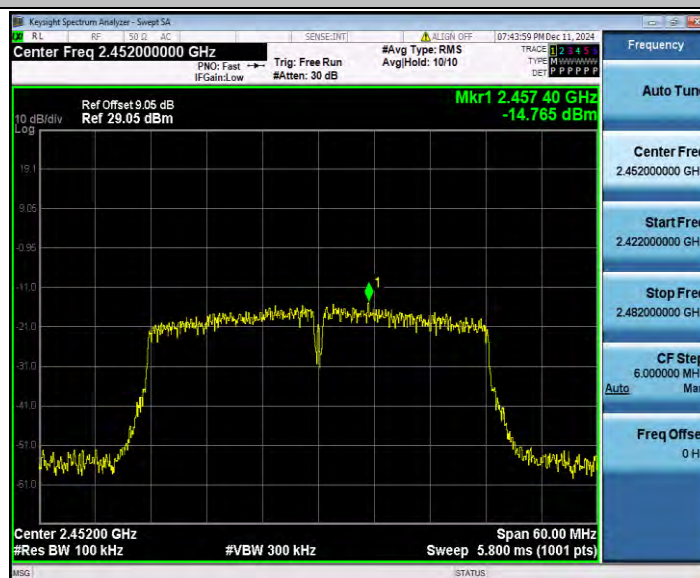
11N40SISO_Ant1_2437_30~1000



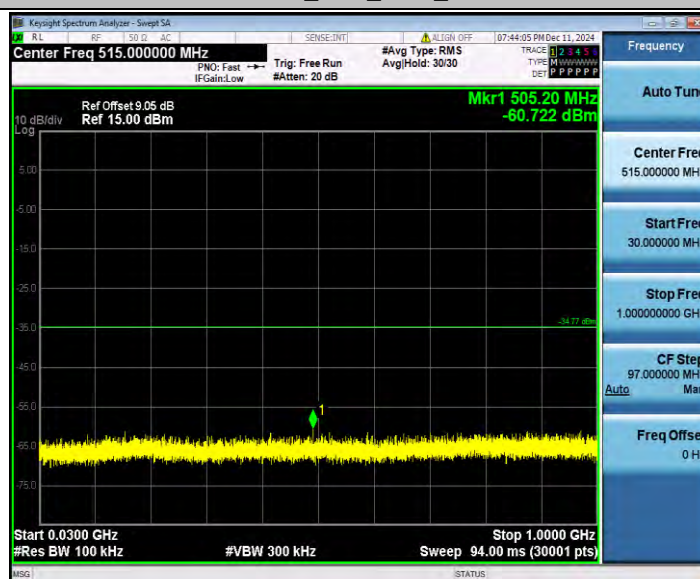
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



Appendix B.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	-49.78	≤-41.20	45.42	≤54	PASS
				AV	2386.970	-49.37	≤-41.20	45.83	≤54	PASS
				AV	2390.000	-49.42	≤-41.20	45.78	≤54	PASS
				Peak	2310.000	-49.04	≤-21.20	46.16	≤74	PASS
				Peak	2384.110	-41.25	≤-21.20	53.95	≤74	PASS
				Peak	2390.000	-44.04	≤-21.20	51.16	≤74	PASS
		High	2462	AV	2483.500	-49.27	≤-41.20	45.93	≤54	PASS
				AV	2499.950	-48.97	≤-41.20	46.23	≤54	PASS
				AV	2500.000	-48.97	≤-41.20	46.23	≤54	PASS
				Peak	2483.500	-44.64	≤-21.20	50.56	≤74	PASS
				Peak	2488.290	-41.1	≤-21.20	54.10	≤74	PASS
				Peak	2500.000	-46.54	≤-21.20	48.66	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.65	≤-41.20	45.55	≤54	PASS
				AV	2386.190	-49.2	≤-41.20	46.00	≤54	PASS
				AV	2390.000	-49.23	≤-41.20	45.97	≤54	PASS
				Peak	2310.000	-47.37	≤-21.20	47.83	≤74	PASS
				Peak	2315.340	-40.96	≤-21.20	54.24	≤74	PASS
				Peak	2390.000	-46.4	≤-21.20	48.80	≤74	PASS
		High	2462	AV	2483.500	-49.12	≤-41.20	46.08	≤54	PASS
				AV	2499.070	-48.87	≤-41.20	46.33	≤54	PASS
				AV	2500.000	-48.88	≤-41.20	46.32	≤54	PASS
				Peak	2483.500	-48.15	≤-21.20	47.05	≤74	PASS
				Peak	2490.160	-41.12	≤-21.20	54.08	≤74	PASS
				Peak	2500.000	-46.67	≤-21.20	48.53	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.62	≤-41.20	45.58	≤54	PASS
				AV	2389.960	-49.17	≤-41.20	46.03	≤54	PASS
				AV	2390.000	-49.17	≤-41.20	46.03	≤54	PASS
				Peak	2310.000	-47.42	≤-21.20	47.78	≤74	PASS
				Peak	2348.100	-40.33	≤-21.20	54.87	≤74	PASS
				Peak	2390.000	-47	≤-21.20	48.20	≤74	PASS
		High	2462	AV	2483.500	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2499.950	-48.72	≤-41.20	46.48	≤54	PASS
				AV	2500.000	-48.72	≤-41.20	46.48	≤54	PASS
				Peak	2483.500	-44.64	≤-21.20	50.56	≤74	PASS
				Peak	2495.110	-41.3	≤-21.20	53.90	≤74	PASS

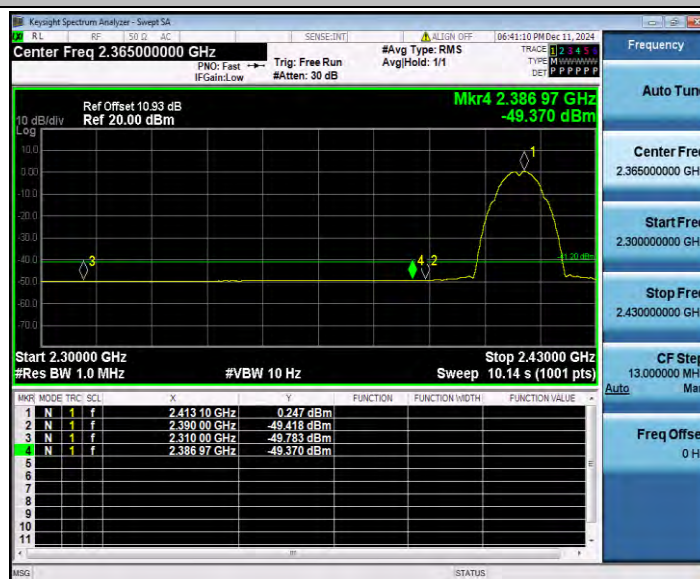
				Peak	2500.000	-43.81	≤ -21.20	51.39	≤ 74	PASS
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.53	≤ -41.20	45.67	≤ 54	PASS
				AV	2389.700	-49.05	≤ -41.20	46.15	≤ 54	PASS
				AV	2390.000	-49.07	≤ -41.20	46.13	≤ 54	PASS
				Peak	2310.000	-45.67	≤ -21.20	49.53	≤ 74	PASS
				Peak	2324.960	-40.96	≤ -21.20	54.24	≤ 74	PASS
				Peak	2390.000	-43.93	≤ -21.20	51.27	≤ 74	PASS
		High	2452	AV	2483.500	-48.96	≤ -41.20	46.24	≤ 54	PASS
				AV	2497.530	-48.8	≤ -41.20	46.40	≤ 54	PASS
				AV	2500.000	-48.81	≤ -41.20	46.39	≤ 54	PASS
				Peak	2483.500	-45.24	≤ -21.20	49.96	≤ 74	PASS
				Peak	2489.280	-41.69	≤ -21.20	53.51	≤ 74	PASS
				Peak	2500.000	-44.5	≤ -21.20	50.70	≤ 74	PASS

Note:

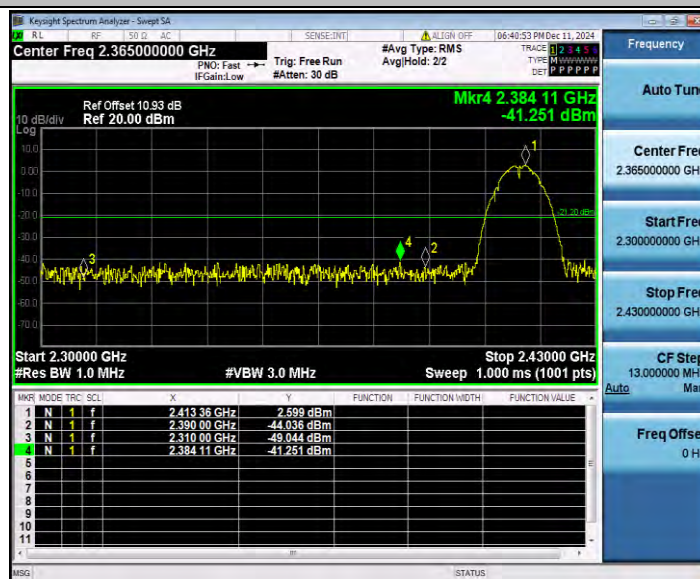
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

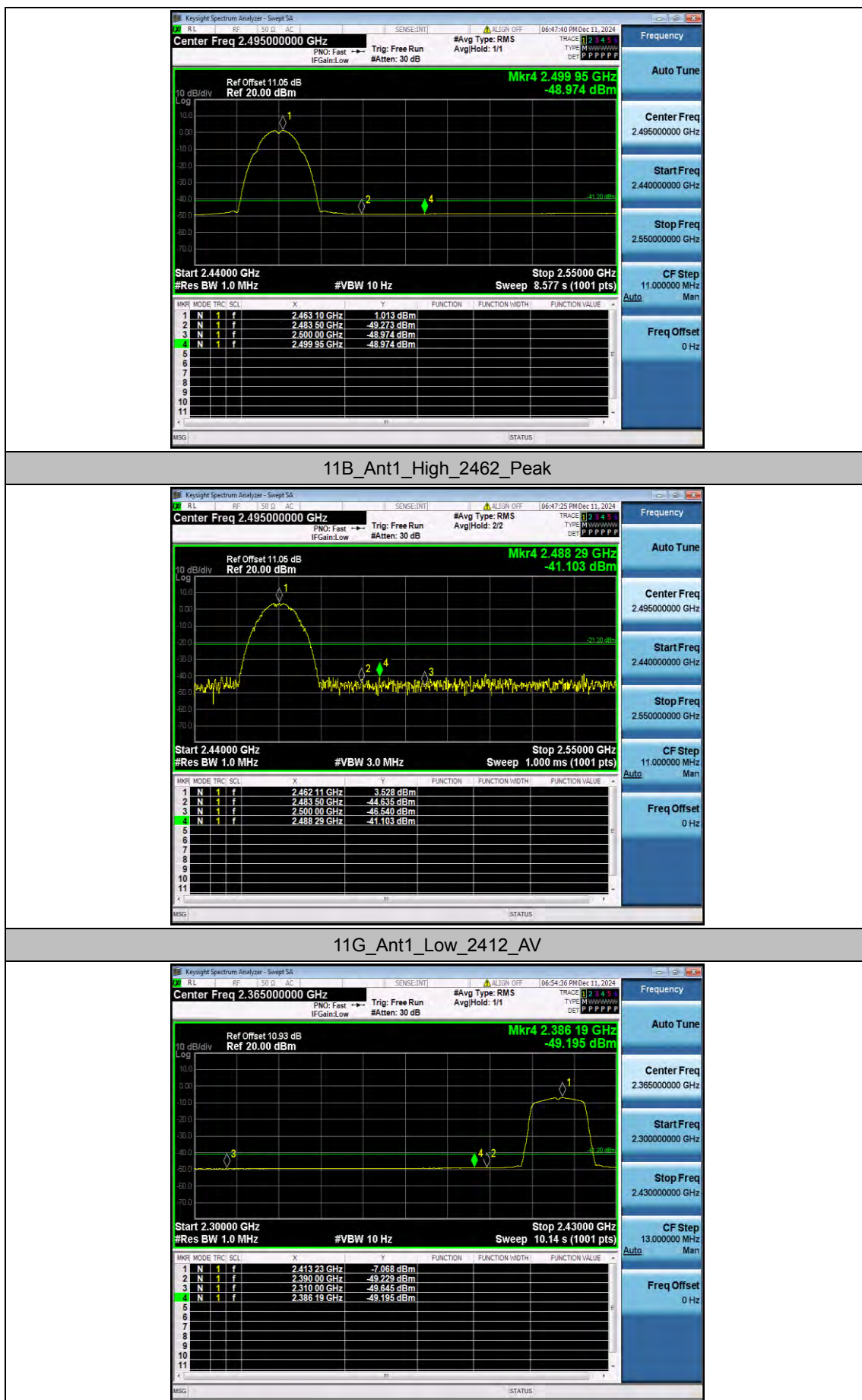
11B_Ant1_Low_2412_AV



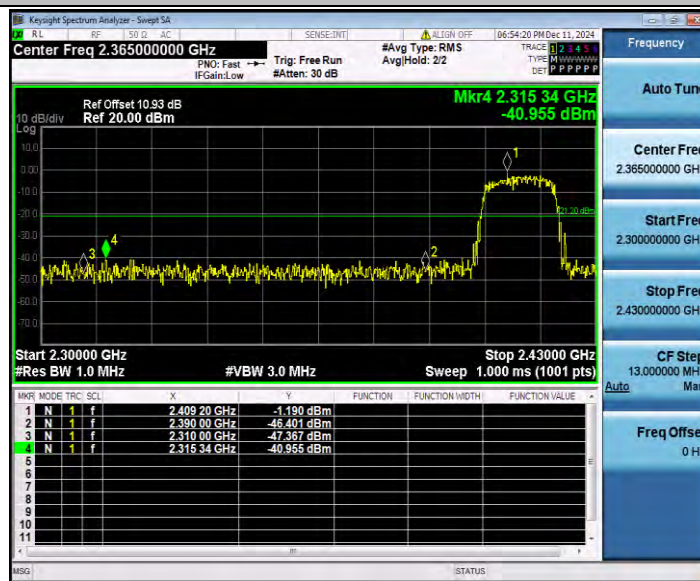
11B_Ant1_Low_2412_Peak



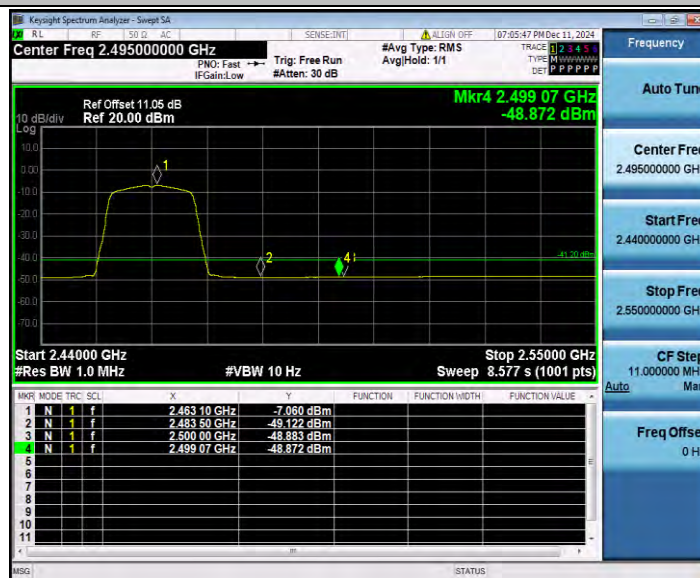
11B_Ant1_High_2462_AV



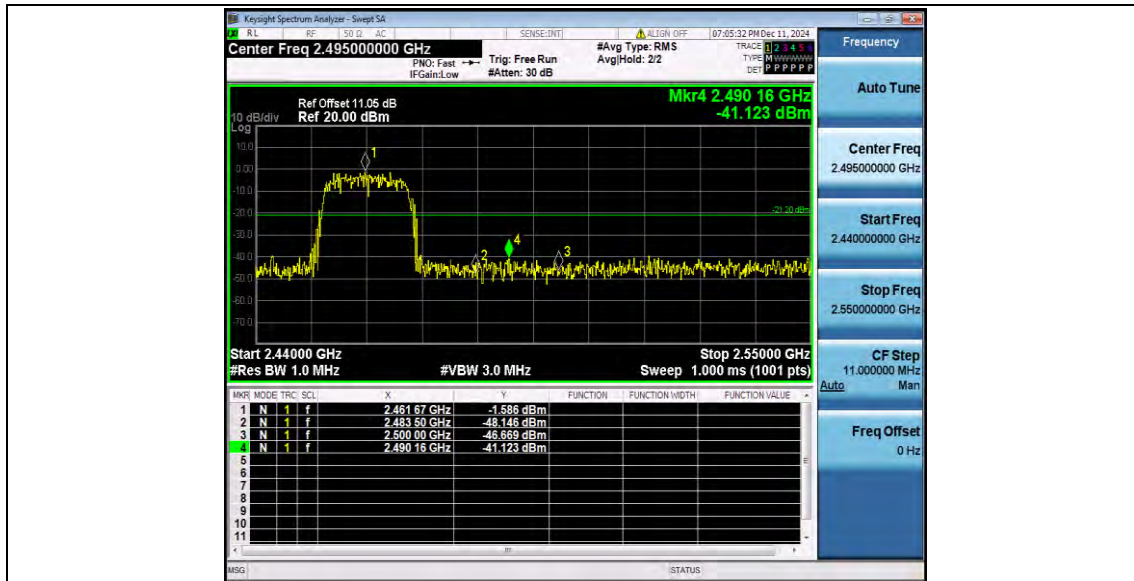
11G_Ant1_Low_2412_Peak



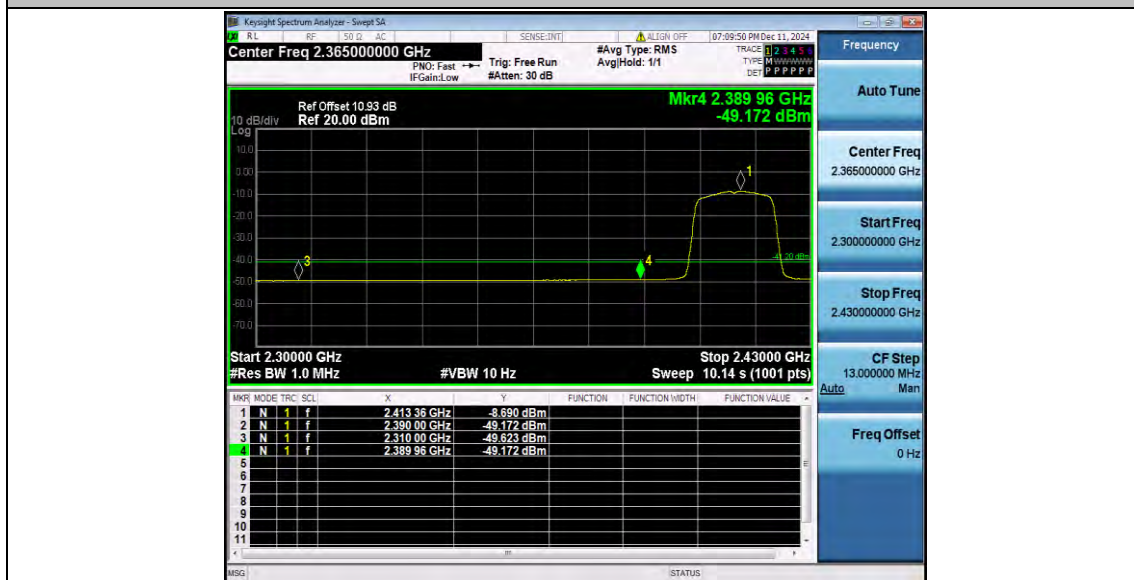
11G_Ant1_High_2462_AV



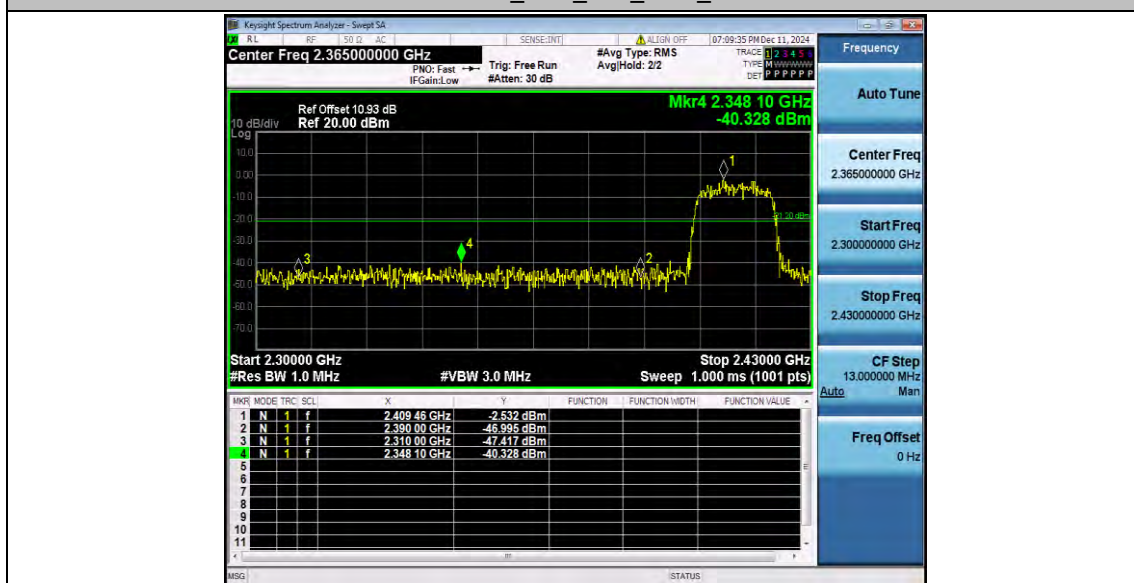
11G_Ant1_High_2462_Peak



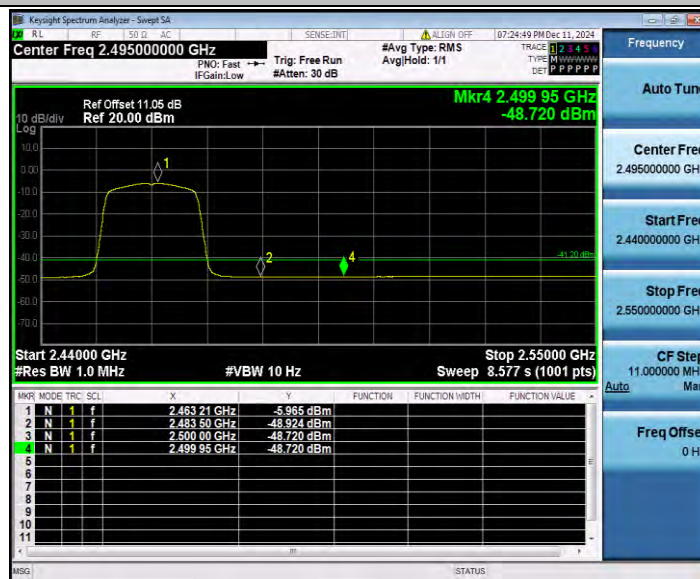
11N20SISO_Ant1_Low_2412_AV



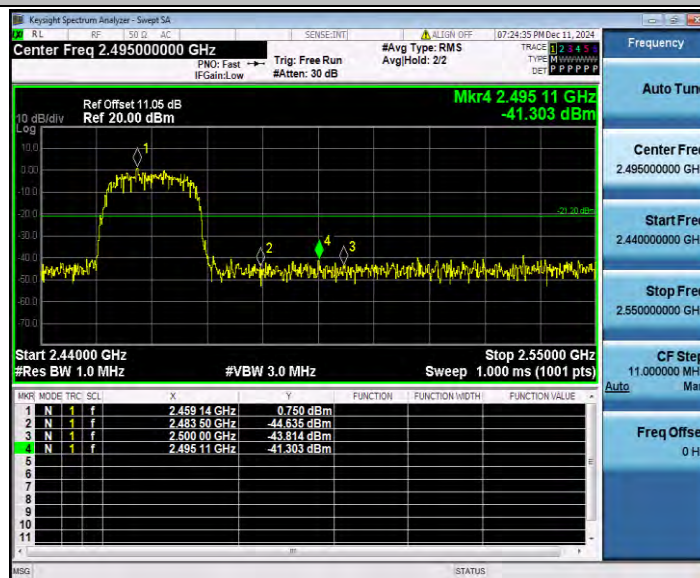
11N20SISO_Ant1_Low_2412_Peak



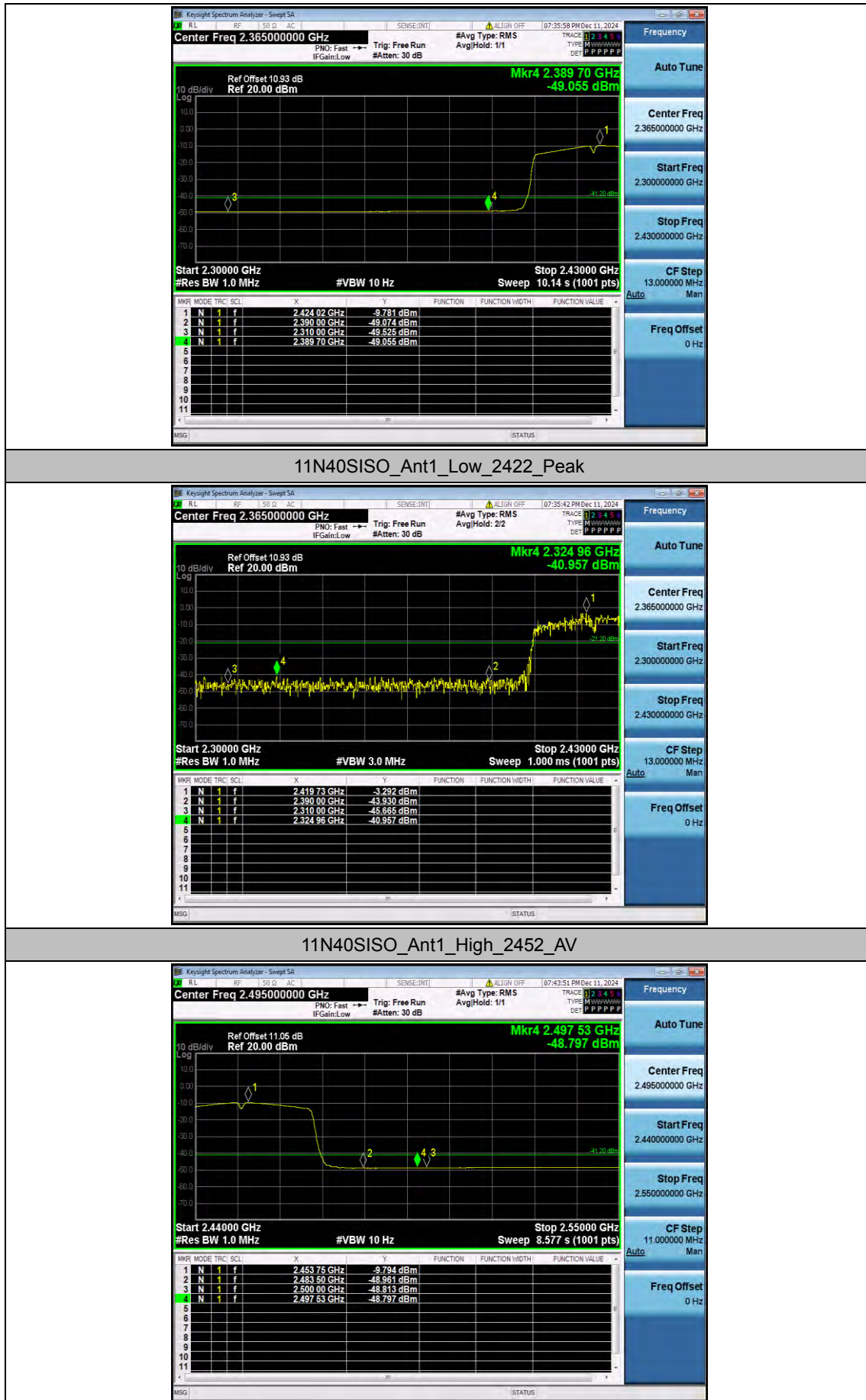
11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_High_2452_Peak

