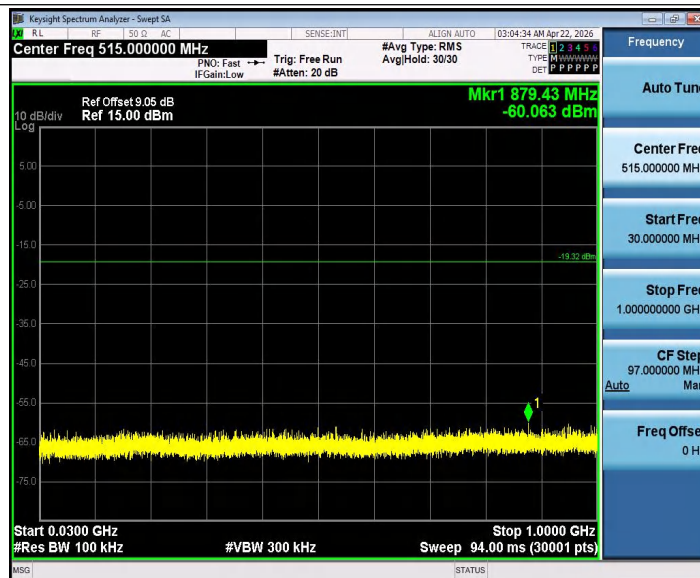
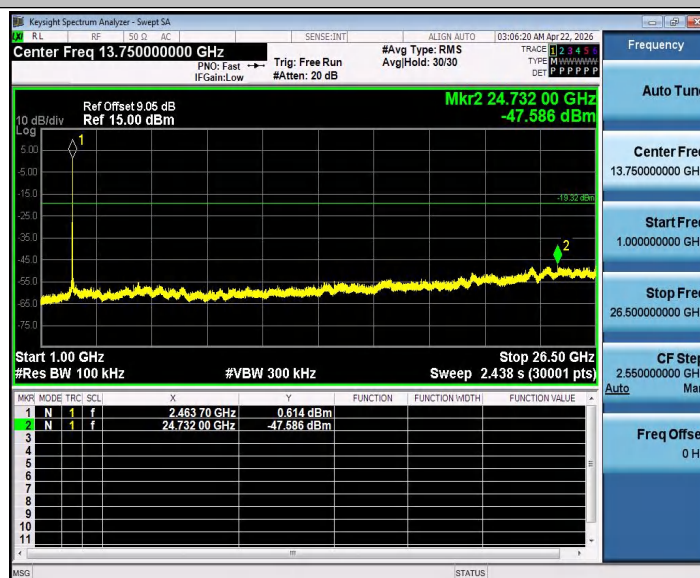


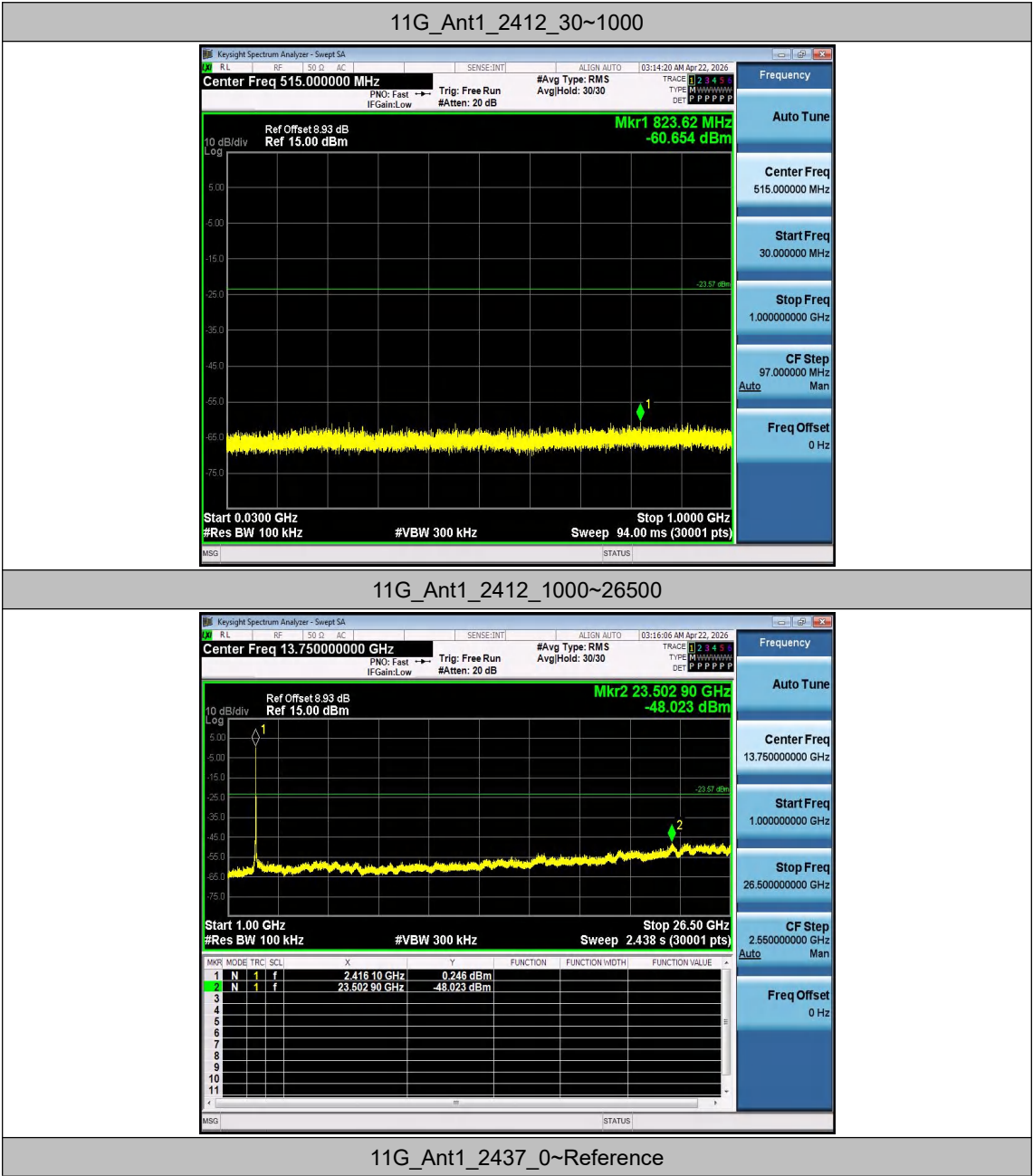


11B_Ant1_2462_1000~26500



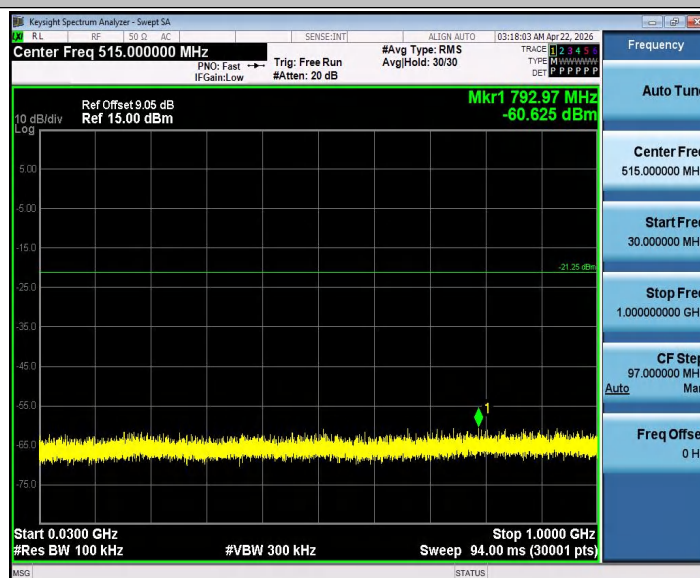
11G_Ant1_2412_0~Reference







11G_Ant1_2437_30~1000



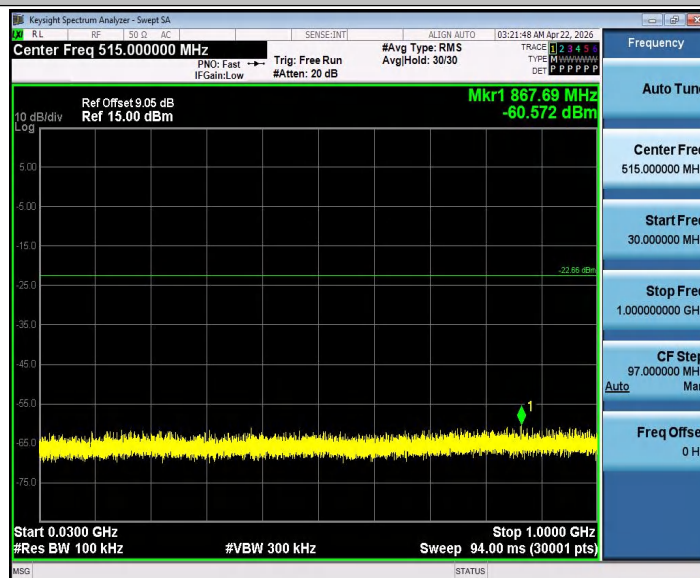
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



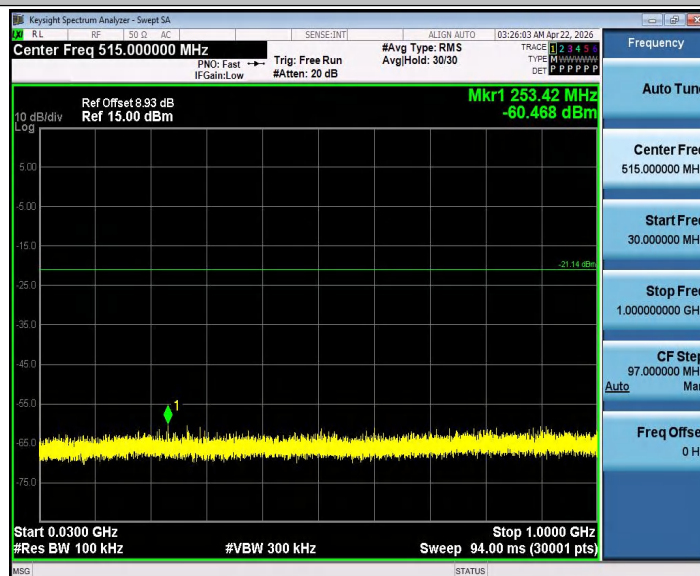
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



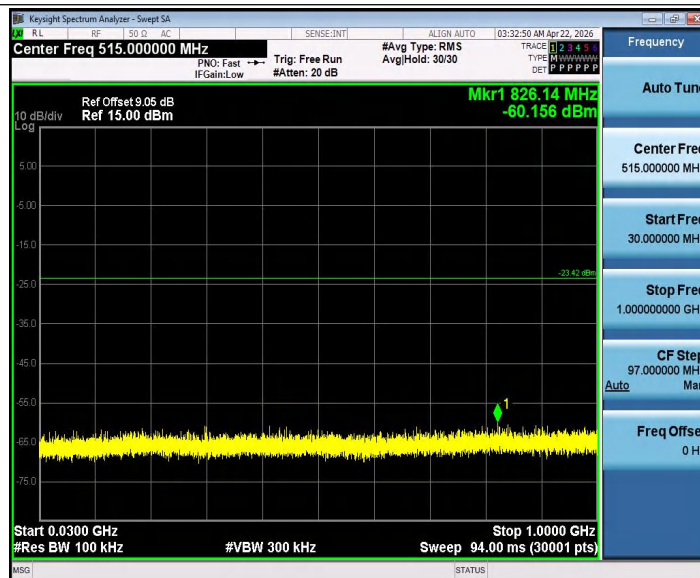
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



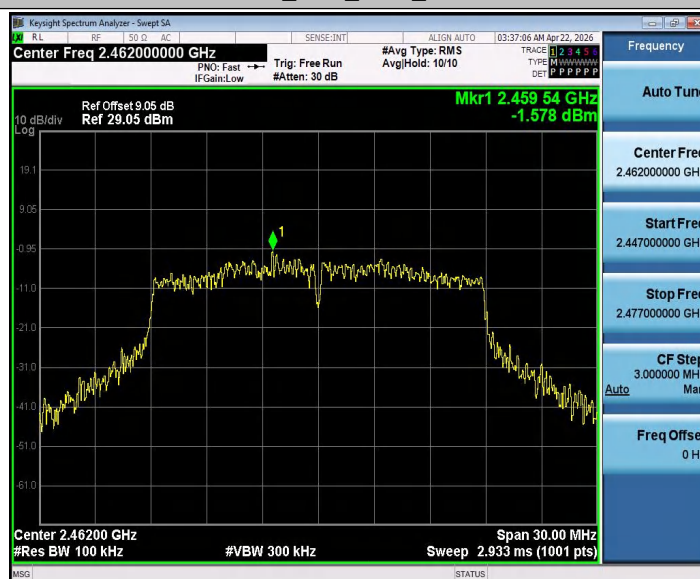
11N20SISO_Ant1_2437_30~1000

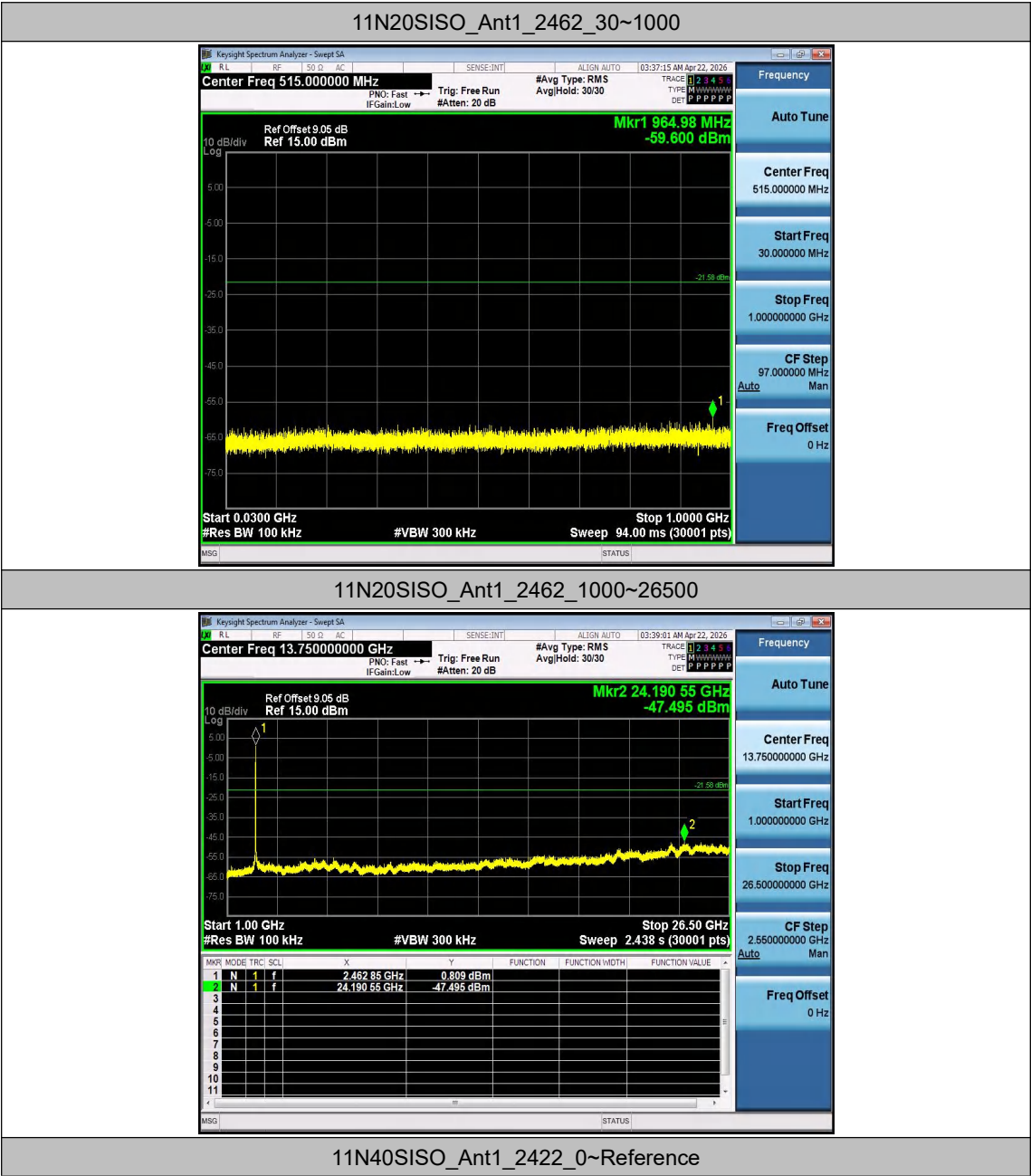


11N20SISO_Ant1_2437_1000~26500



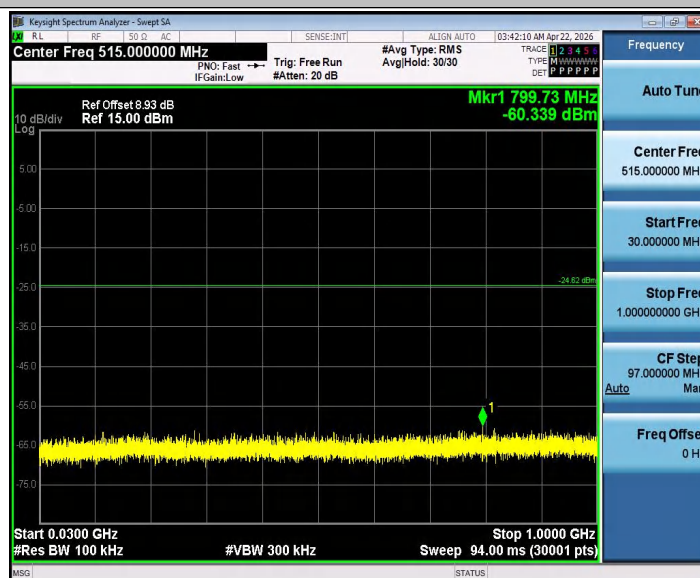
11N20SISO_Ant1_2462_0~Reference







11N40SISO_Ant1_2422_30~1000



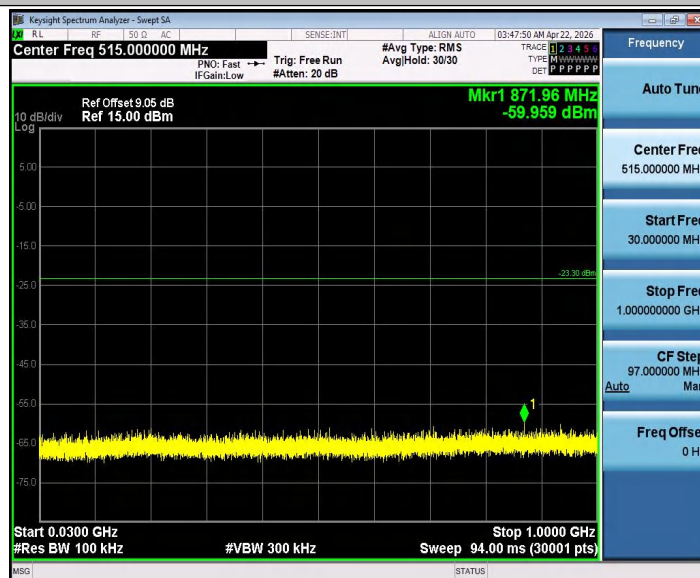
11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500

Keysight Spectrum Analyzer - Sweep SA

RF | BS | 50.0 | AC | SENSE:INT1 | ALIGN:AUTO | 03:52:57 AM Apr 23, 2026

Center Freq 2.45200000 GHz

PNO: Fast → Trig: Free Run Avg Type: RMS
IF Gain: Low #Atten: 30 dB AvgHld: 10/10

TRACER 1 2 3 4 5 6
TYPE M W W W W W W W
DET P P P P P P P

Auto Tune

Center Freq 2.45200000 GHz

Start Freq 2.42200000 GHz

Stop Freq 2.48200000 GHz

CF Step 6.000000 MHz
Auto Man

Freq Offset 0 Hz

Ref Offset: 9.05 dB
Ref 29.05 dBm

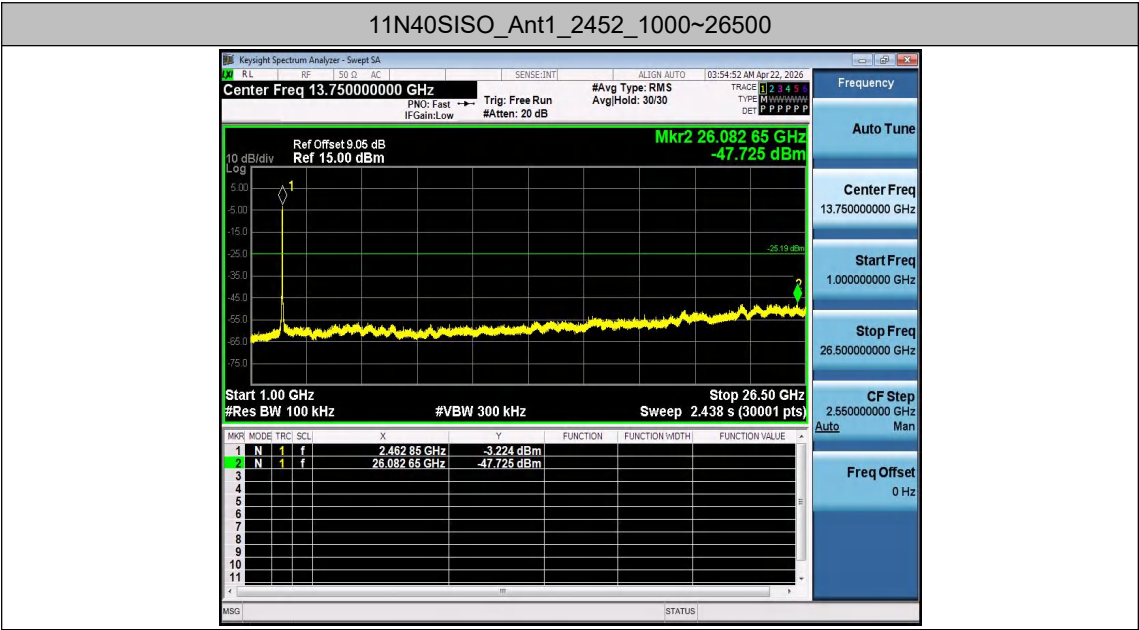
Mkr1 2.447 02 GHz
-5.191 dBm

10 dB/div
Log

Center 2.45200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 60.00 MHz
Sweep 5.800 ms (1001 pts)

The screenshot shows a Keysight Spectrum Analyzer interface. The main display area shows a noise floor at -60.869 dBm. The frequency range is from 0.0300 GHz to 1.0000 GHz. The resolution bandwidth (RBW) is 300 kHz. The video bandwidth (VBW) is 300 kHz. The sweep time is 94.00 ms (30001 pts). The center frequency is 515.000000 MHz. The reference level is 15.00 dBm. The reference offset is 9.05 dB. The measurement is labeled Mkr1 474.20 MHz -60.869 dBm. The interface includes various control panels for frequency, resolution, and measurement settings.

Parameter	Value
Center Freq	515.000000 MHz
Start Freq	30.000000 MHz
Stop Freq	1.00000000 GHz
CF Step	97.000000 MHz
Auto	Man
Freq Offset	0 Hz
Start	0.0300 GHz
Stop	1.0000 GHz
#Res BW	100 kHz
#VBW	300 kHz
Sweep	94.00 ms (30001 pts)
Center Freq	515.000000 MHz
Ref Offset	9.05 dB
Ref	15.00 dBm
Mkr1	474.20 MHz -60.869 dBm

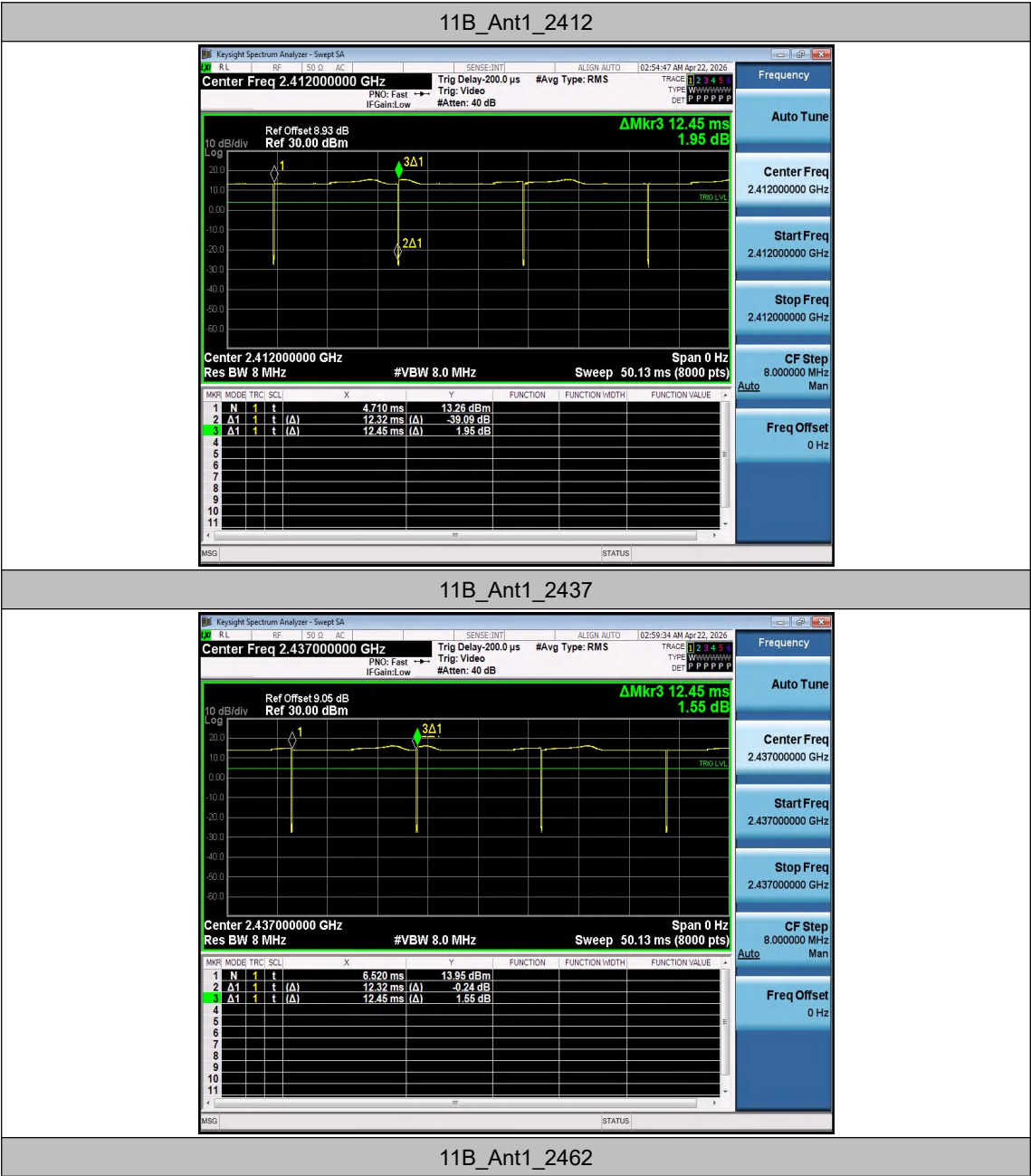


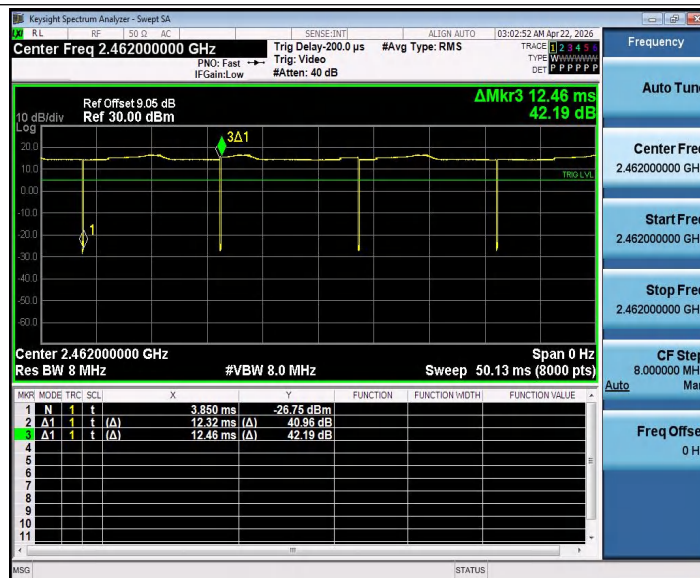
Appendix A.7: Duty Cycle

Test Result

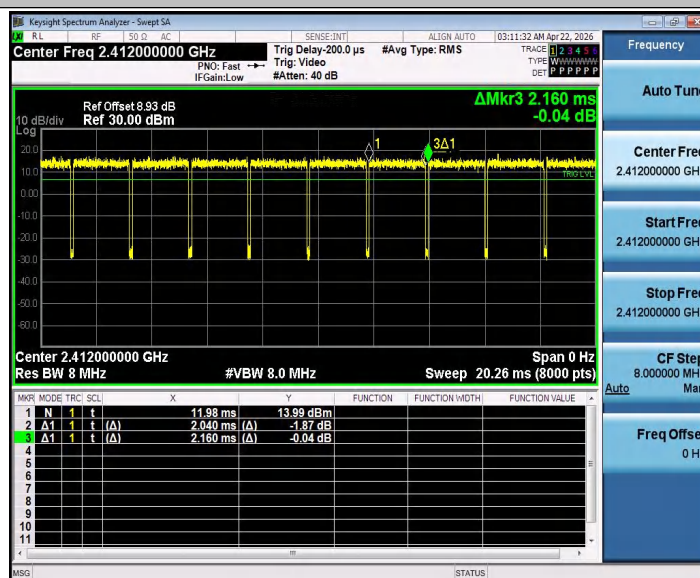
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11B	Ant1	2412	12.32	12.45	98.96	0.05	0.08
		2437	12.32	12.45	98.96	0.05	0.08
		2462	12.32	12.46	98.88	0.05	0.08
11G	Ant1	2412	2.04	2.16	94.44	0.25	0.49
		2437	2.05	2.16	94.91	0.23	0.49
		2462	2.05	2.16	94.91	0.23	0.49
11N20SISO	Ant1	2412	1.91	1.99	95.98	0.18	0.52
		2437	1.91	1.99	95.98	0.18	0.52
		2462	1.91	2.00	95.50	0.20	0.52
11N40SISO	Ant1	2422	0.93	1.10	84.55	0.73	1.08
		2437	0.93	1.10	84.55	0.73	1.08
		2452	0.94	1.11	84.68	0.72	1.06

Test Graphs

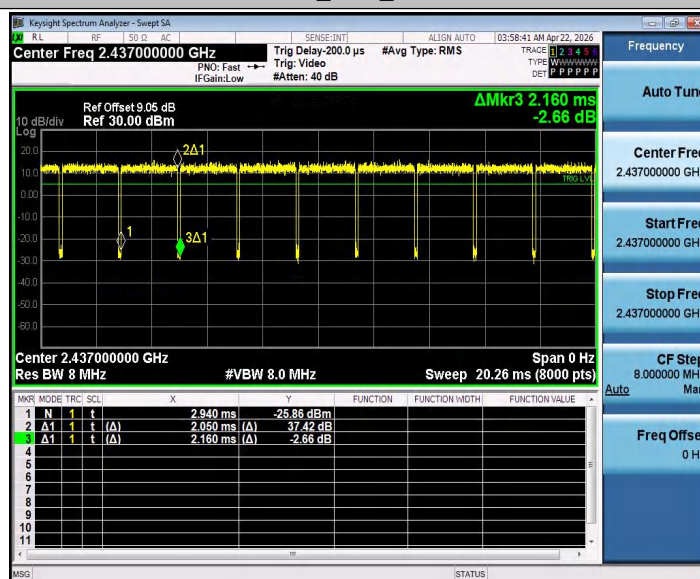




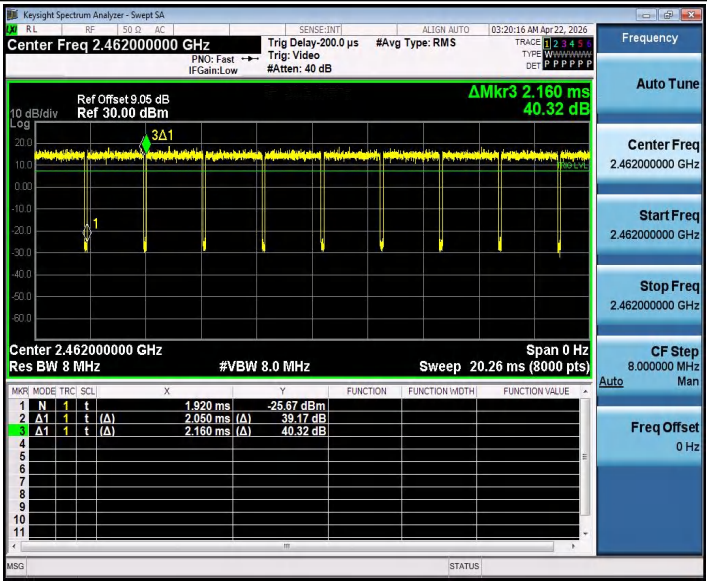
11G_Ant1_2412



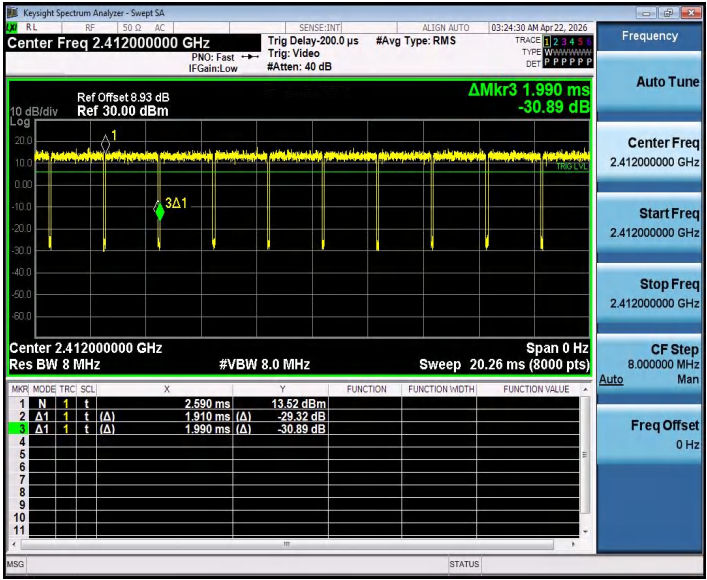
11G_Ant1_2437



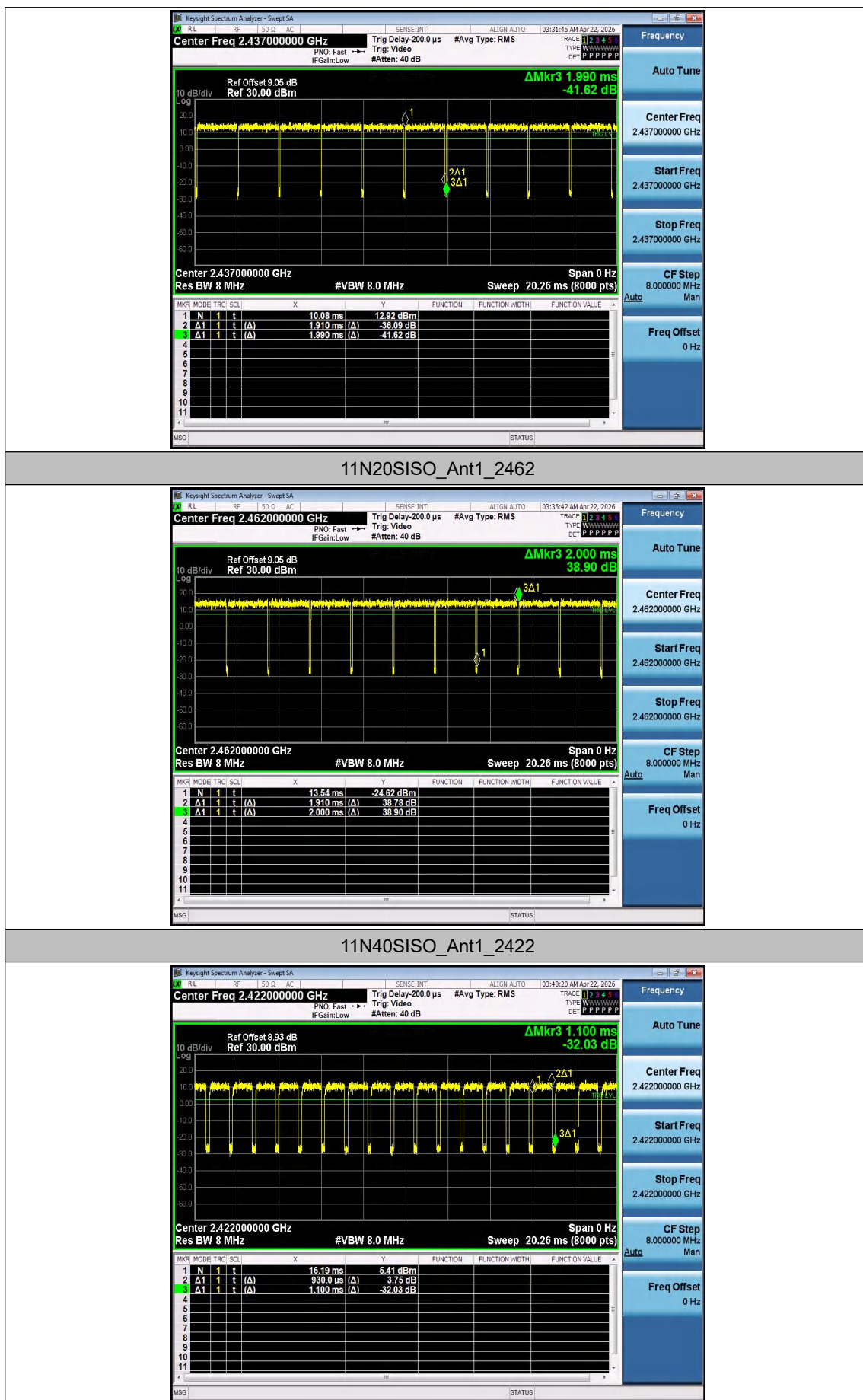
11G_Ant1_2462

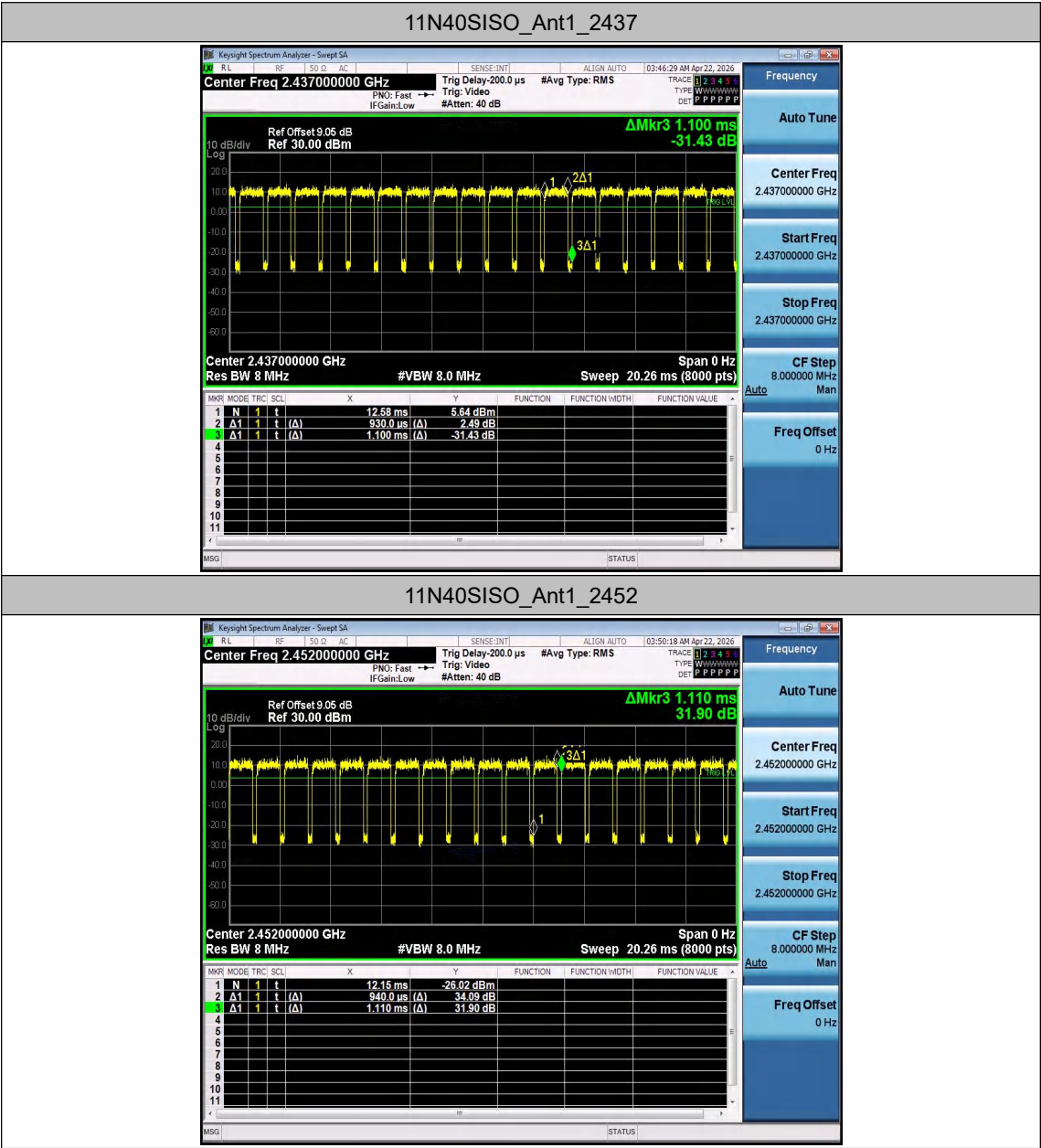


11N20SISO_Ant1_2412



11N20SISO_Ant1_2437





Appendix A.8: Emissions in Restricted Bands

Test Result

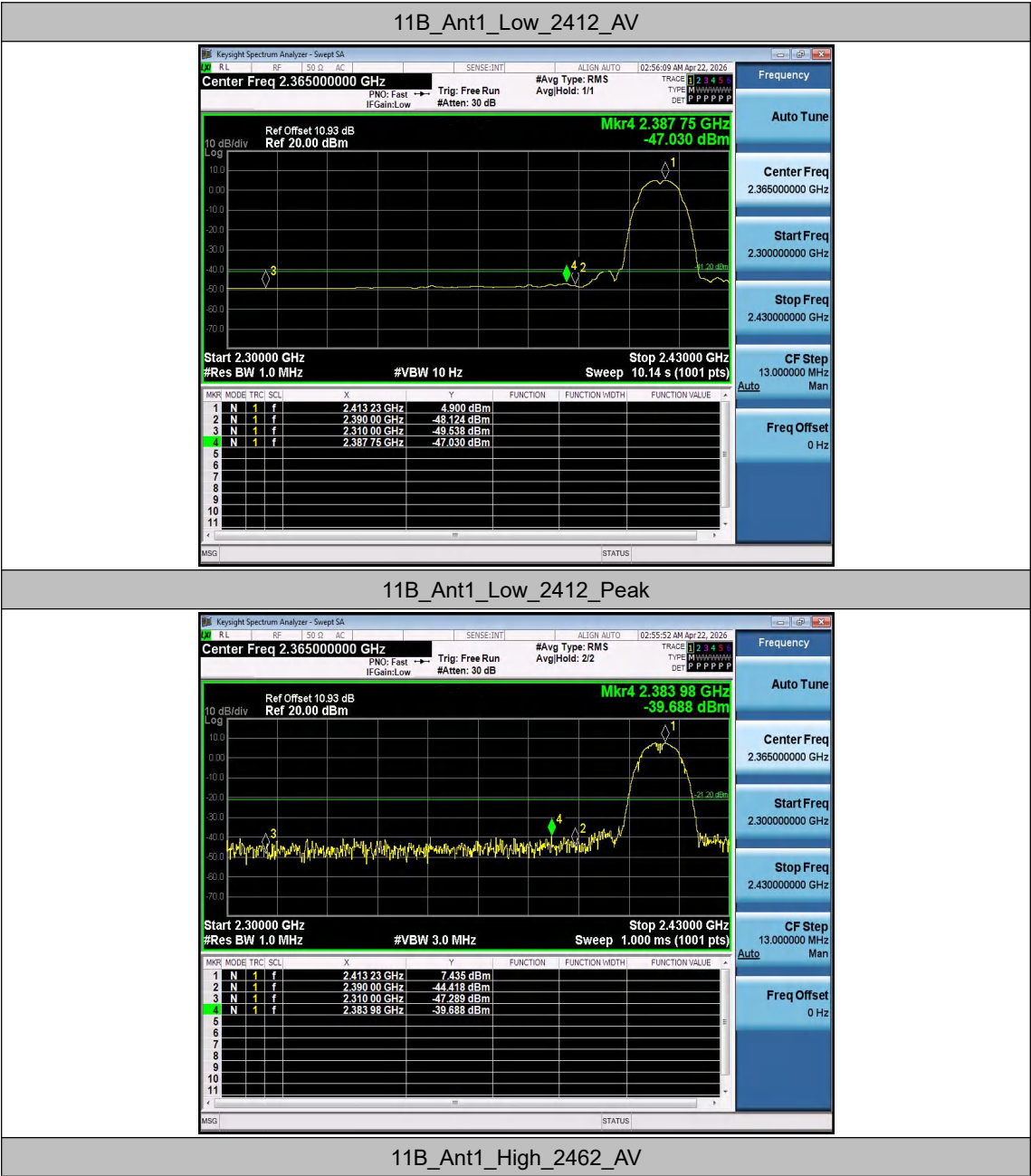
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.54	≤-41.20	45.66	≤54	PASS
				AV	2387.750	-47.03	≤-41.20	48.17	≤54	PASS
				AV	2390.000	-48.12	≤-41.20	47.08	≤54	PASS
				Peak	2310.000	-47.29	≤-21.20	47.91	≤74	PASS
				Peak	2383.980	-39.69	≤-21.20	55.51	≤74	PASS
				Peak	2390.000	-44.42	≤-21.20	50.78	≤74	PASS
		High	2462	AV	2483.500	-47.63	≤-41.20	47.57	≤54	PASS
				AV	2488.400	-46.96	≤-41.20	48.24	≤54	PASS
				AV	2500.000	-48.34	≤-41.20	46.86	≤54	PASS
				Peak	2483.500	-46.27	≤-21.20	48.93	≤74	PASS
				Peak	2488.510	-39.53	≤-21.20	55.67	≤74	PASS
				Peak	2500.000	-47.67	≤-21.20	47.53	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.24	≤-41.20	45.96	≤54	PASS
				AV	2389.830	-45.28	≤-41.20	49.92	≤54	PASS
				AV	2390.000	-45.31	≤-41.20	49.89	≤54	PASS
				Peak	2310.000	-45.27	≤-21.20	49.93	≤74	PASS
				Peak	2386.580	-39.65	≤-21.20	55.55	≤74	PASS
				Peak	2390.000	-45.12	≤-21.20	50.08	≤74	PASS
		High	2462	AV	2483.500	-44.93	≤-41.20	50.27	≤54	PASS
				AV	2483.560	-44.95	≤-41.20	50.25	≤54	PASS
				AV	2500.000	-47.39	≤-41.20	47.81	≤54	PASS
				Peak	2483.500	-40.88	≤-21.20	54.32	≤74	PASS
				Peak	2488.620	-38.35	≤-21.20	56.85	≤74	PASS
				Peak	2500.000	-46.34	≤-21.20	48.86	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.19	≤-41.20	46.01	≤54	PASS
				AV	2389.830	-44.57	≤-41.20	50.63	≤54	PASS
				AV	2390.000	-44.75	≤-41.20	50.45	≤54	PASS
				Peak	2310.000	-47.24	≤-21.20	47.96	≤74	PASS
				Peak	2389.960	-37.35	≤-21.20	57.85	≤74	PASS
				Peak	2390.000	-37.35	≤-21.20	57.85	≤74	PASS
		High	2462	AV	2483.500	-45.13	≤-41.20	50.07	≤54	PASS
				AV	2483.780	-45.18	≤-41.20	50.02	≤54	PASS
				AV	2500.000	-47.24	≤-41.20	47.96	≤54	PASS
				Peak	2483.500	-39.62	≤-21.20	55.58	≤74	PASS
				Peak	2490.160	-38.51	≤-21.20	56.69	≤74	PASS
				Peak	2500.000	-43.19	≤-21.20	52.01	≤74	PASS
11N40SIS	Ant1	Low	2422	AV	2310.000	-49.32	≤-41.20	45.88	≤54	PASS

O				AV	2389.250	-42.49	≤ -41.20	52.71	≤ 54	PASS
				AV	2390.000	-42.81	≤ -41.20	52.39	≤ 54	PASS
				Peak	2310.000	-46.38	≤ -21.20	48.82	≤ 74	PASS
				Peak	2388.050	-35.42	≤ -21.20	59.78	≤ 74	PASS
				Peak	2390.000	-36.56	≤ -21.20	58.64	≤ 74	PASS
		High	2452	AV	2483.500	-42.79	≤ -41.20	52.41	≤ 54	PASS
				AV	2484.500	-41.75	≤ -41.20	53.45	≤ 54	PASS
				AV	2500.000	-46.27	≤ -41.20	48.93	≤ 54	PASS
				Peak	2483.500	-37.21	≤ -21.20	57.99	≤ 74	PASS
				Peak	2488.500	-34.02	≤ -21.20	61.18	≤ 74	PASS
				Peak	2500.000	-41.1	≤ -21.20	54.10	≤ 74	PASS

Note:

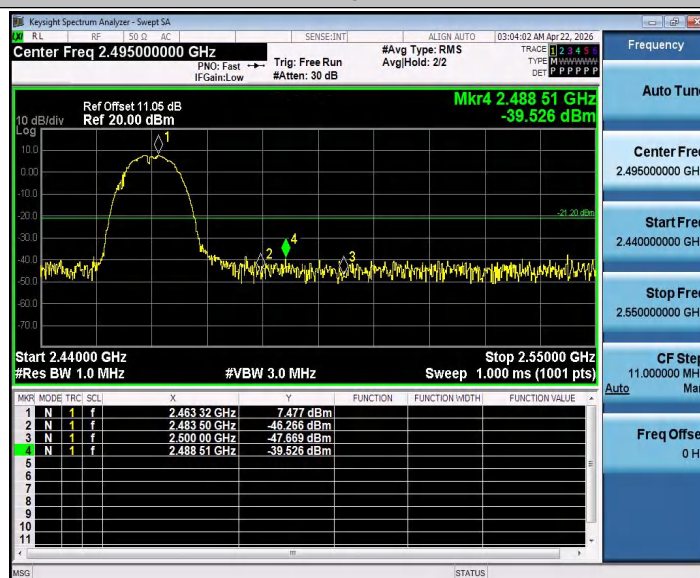
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

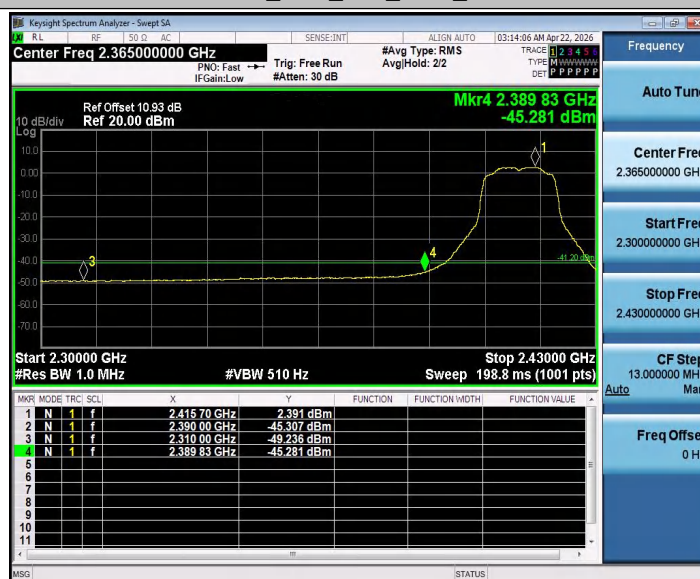




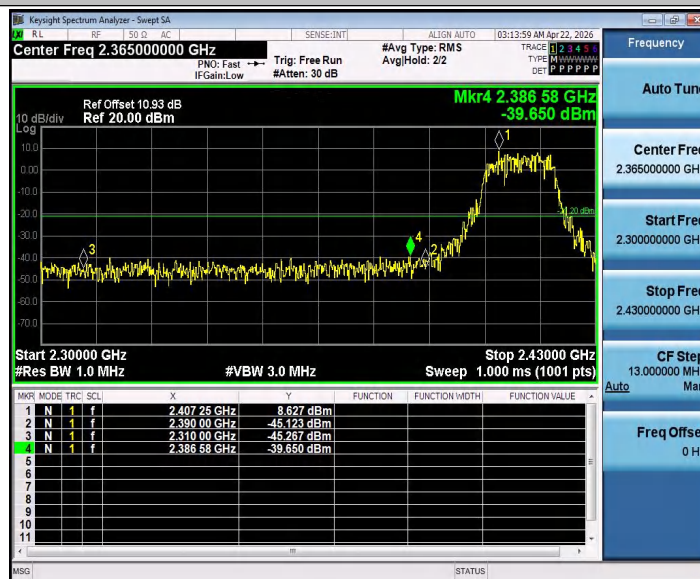
11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV



11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



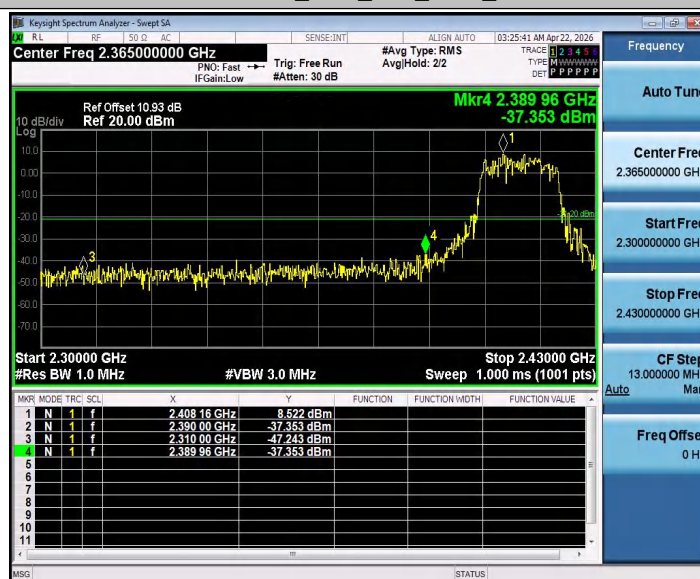
11G_Ant1_High_2462_Peak



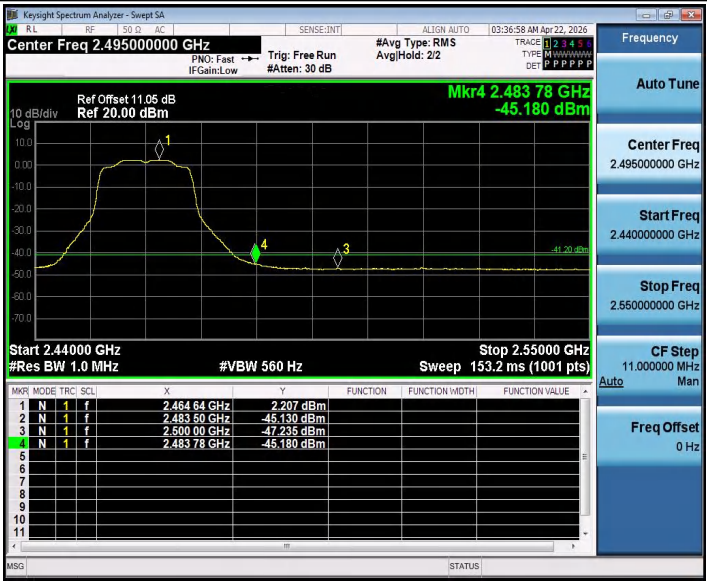
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



