

Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: LCD Monitor

Test Model: 850-277216

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Yongzhou Huang
Supervised by:	Fengliu Tang

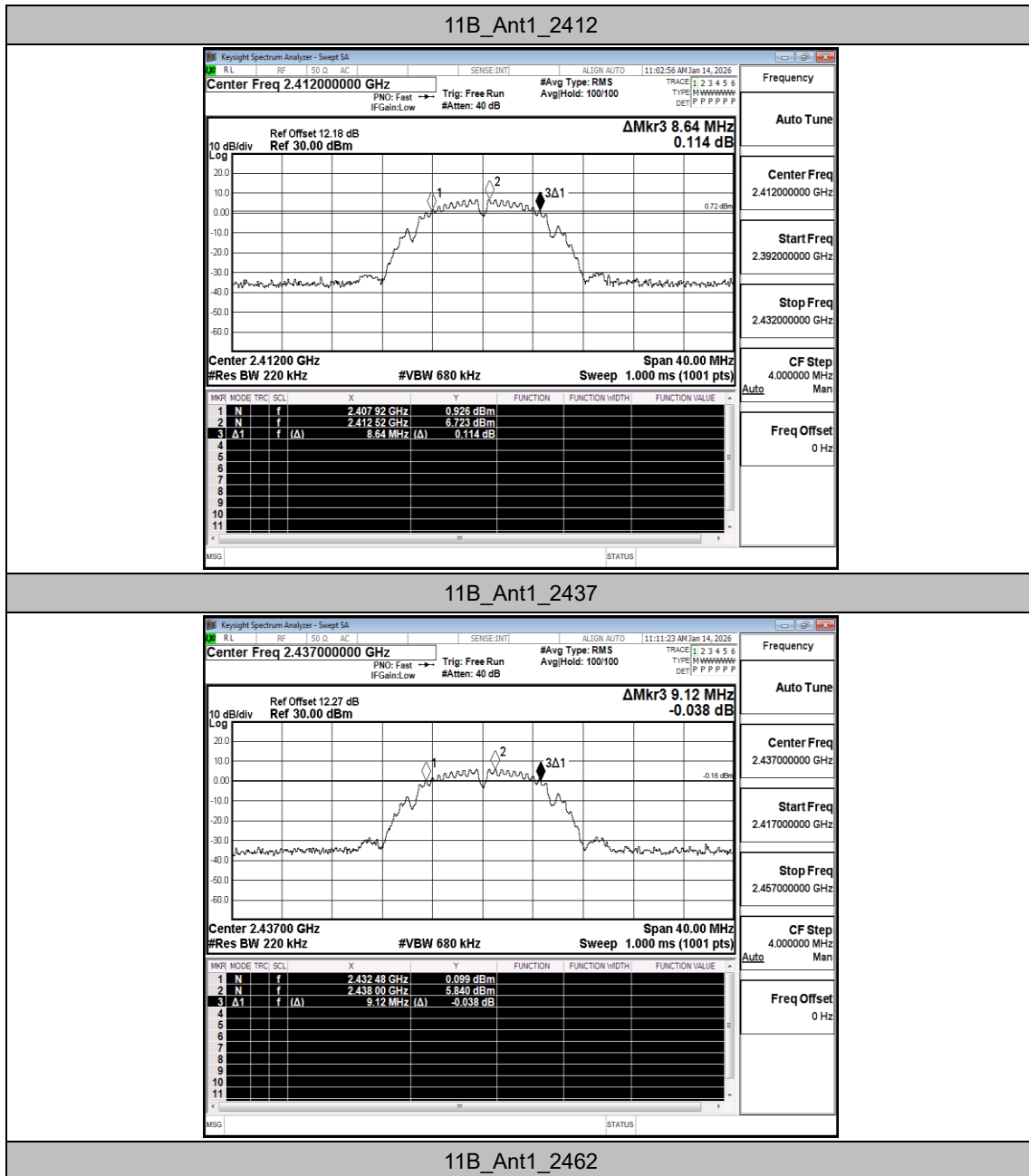
A.1 DTS Bandwidth

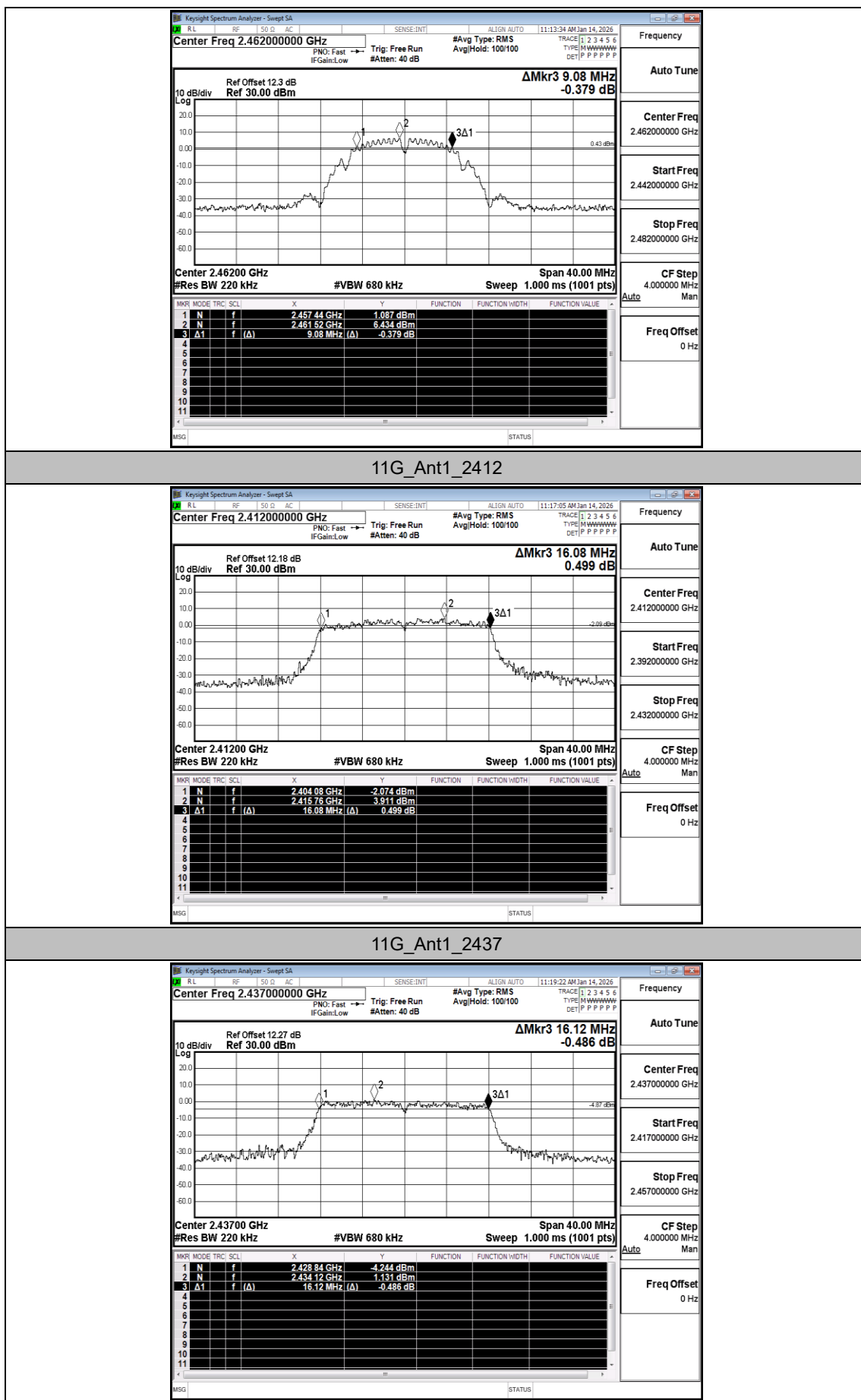
Test Result

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.640	2407.920	2416.560	0.5	PASS
		2437	9.120	2432.480	2441.600	0.5	PASS
		2462	9.080	2457.440	2466.520	0.5	PASS
11G	Ant1	2412	16.080	2404.080	2420.160	0.5	PASS
		2437	16.120	2428.840	2444.960	0.5	PASS
		2462	16.200	2453.920	2470.120	0.5	PASS
11N20SISO	Ant1	2412	16.040	2404.400	2420.440	0.5	PASS
		2437	17.360	2428.200	2445.560	0.5	PASS
		2462	17.160	2453.400	2470.560	0.5	PASS

Note: offset=System attenuation +cabel loss

Test Graphs



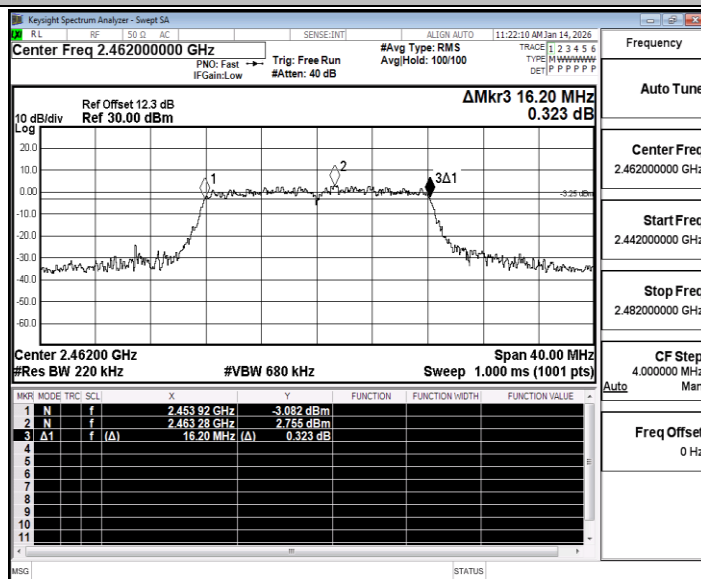


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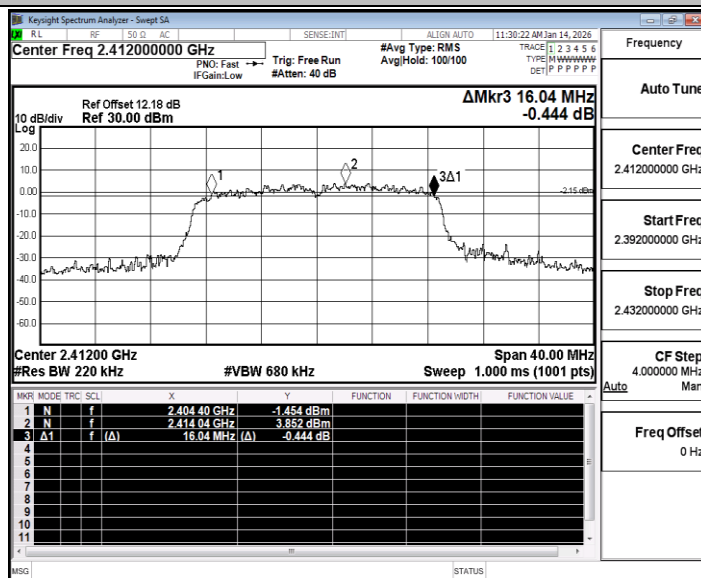
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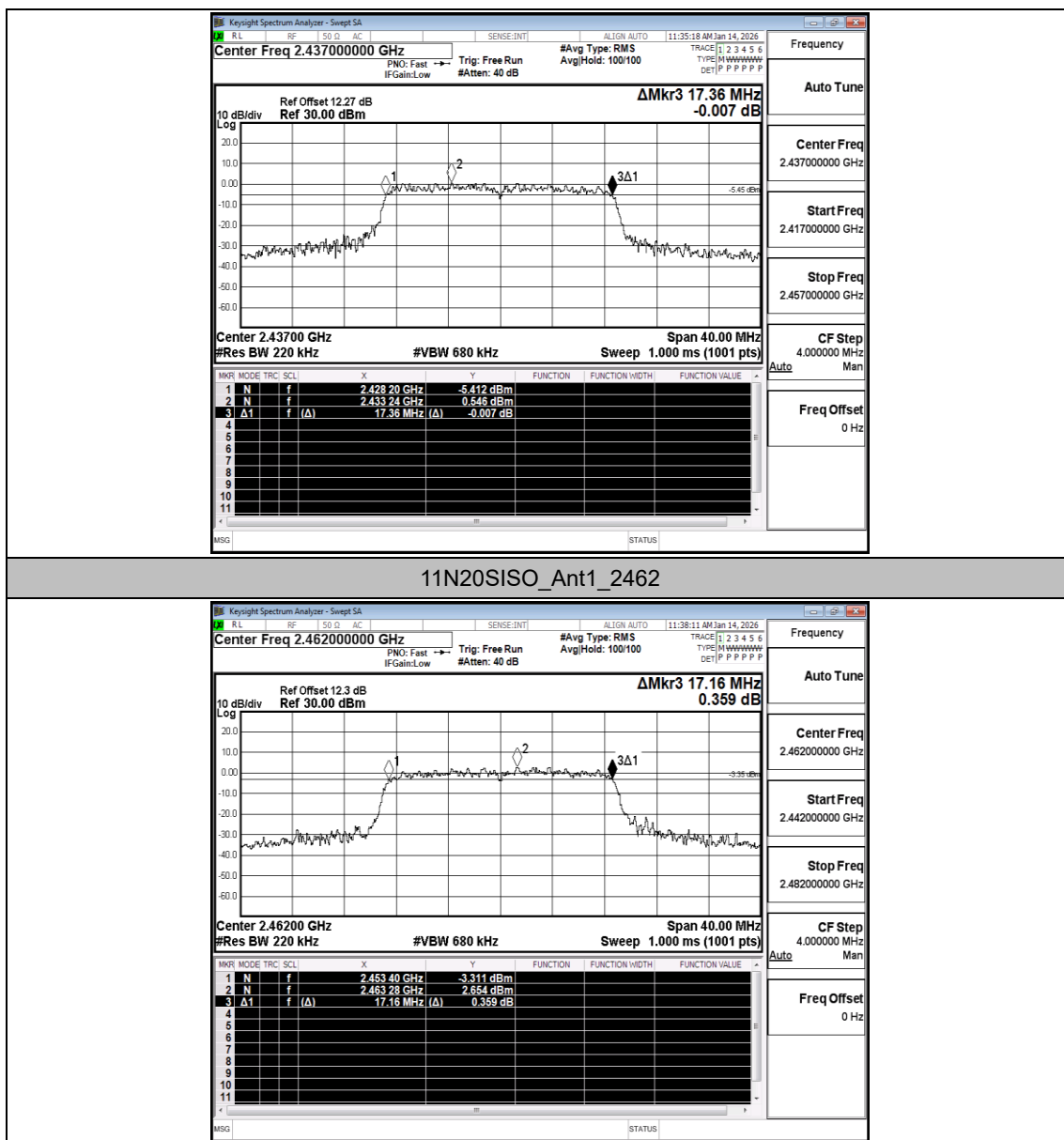
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



A.2 Maximum Average conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Factor [dB]	Total Maximum Average	Limit [dBm]	Verdict
11B	Ant1	2412	14.39	0.34	14.73	≤30.00	PASS
		2437	13.80	0.34	14.14	≤30.00	PASS
		2462	14.39	0.34	14.72	≤30.00	PASS
11G	Ant1	2412	11.72	1.76	13.48	≤30.00	PASS
		2437	8.73	2.14	10.87	≤30.00	PASS
		2462	10.72	1.89	12.61	≤30.00	PASS
11N20SISO	Ant1	2412	11.82	1.76	13.58	≤30.00	PASS
		2437	8.83	1.76	10.59	≤30.00	PASS
		2462	10.76	1.76	12.52	≤30.00	PASS

Note: offset=System attenuation +caval loss

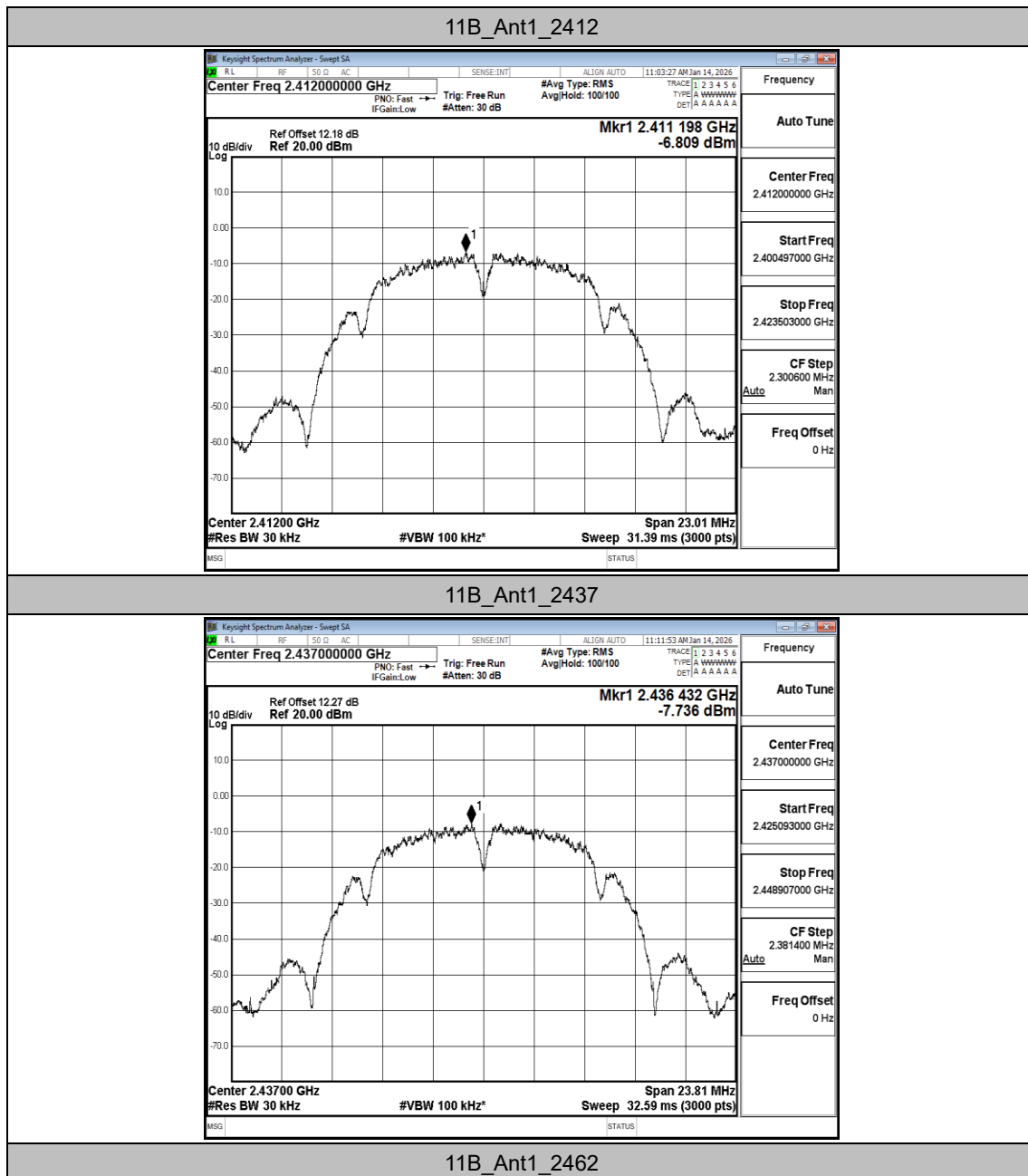
A.3 Maximum power spectral density

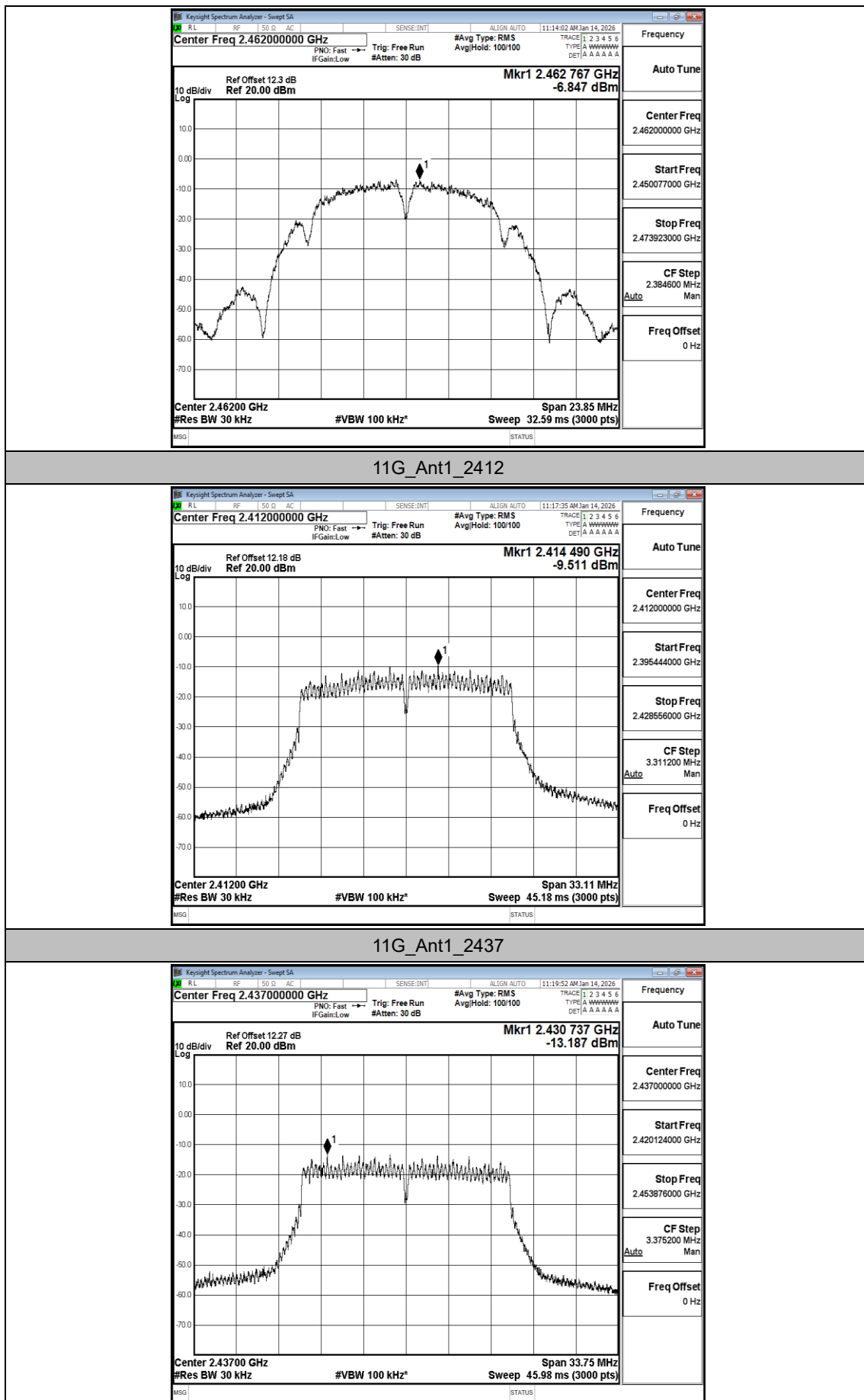
Test Result

TestMode	Antenna	Frequency [MHz]	Measured PSD [dBm/30kHz]	Duty Factor [dB]	Result[dBm/30kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.81	0.34	-6.47	≤8.00	PASS
		2437	-7.74	0.34	-7.40	≤8.00	PASS
		2462	-6.85	0.34	-6.51	≤8.00	PASS
11G	Ant1	2412	-9.51	1.76	-7.75	≤8.00	PASS
		2437	-13.19	2.14	-11.05	≤8.00	PASS
		2462	-10.73	1.89	-8.84	≤8.00	PASS
11N20SISO	Ant1	2412	-9.83	1.76	-8.07	≤8.00	PASS
		2437	-13.21	1.76	-11.45	≤8.00	PASS
		2462	-10.99	1.76	-9.23	≤8.00	PASS

Note: offset=System attenuation +cabel loss

Test Graphs



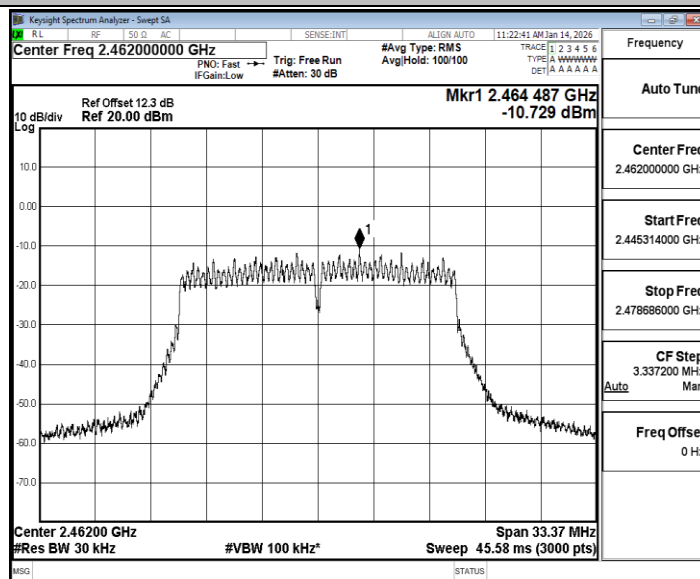


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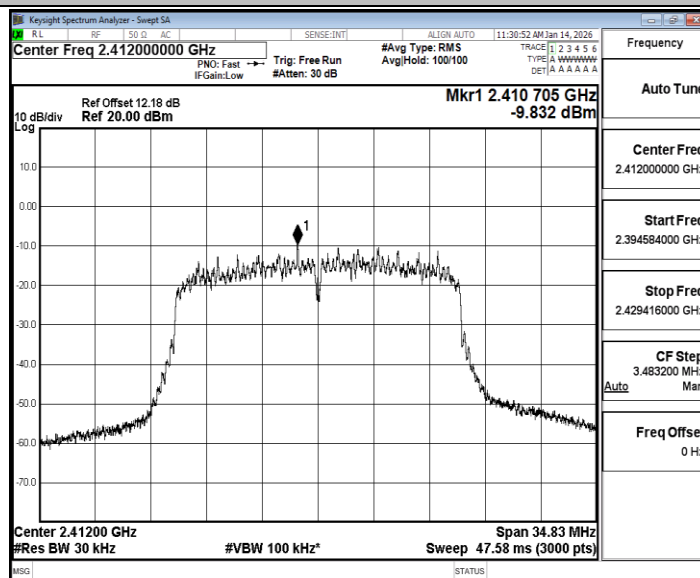
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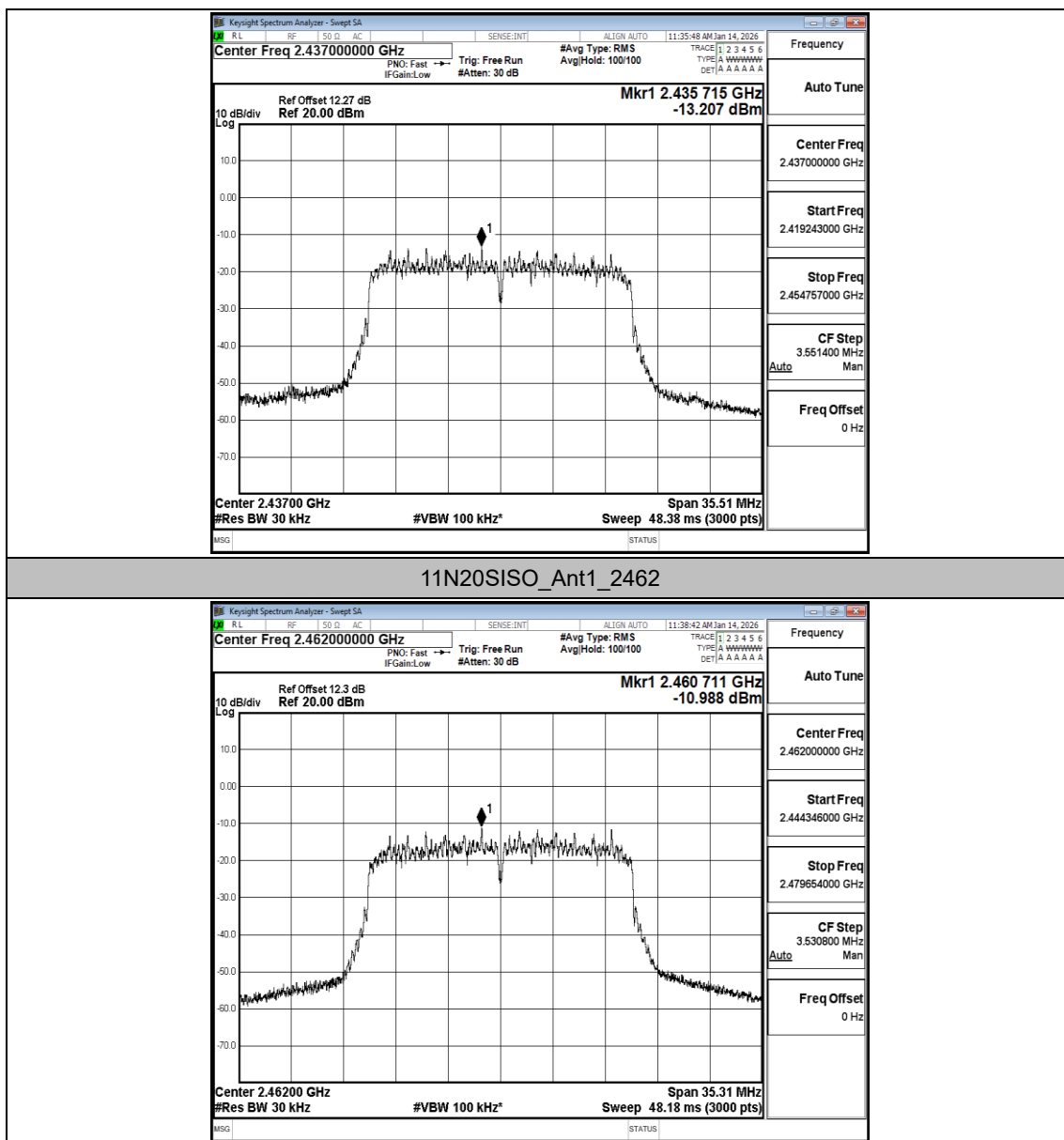
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



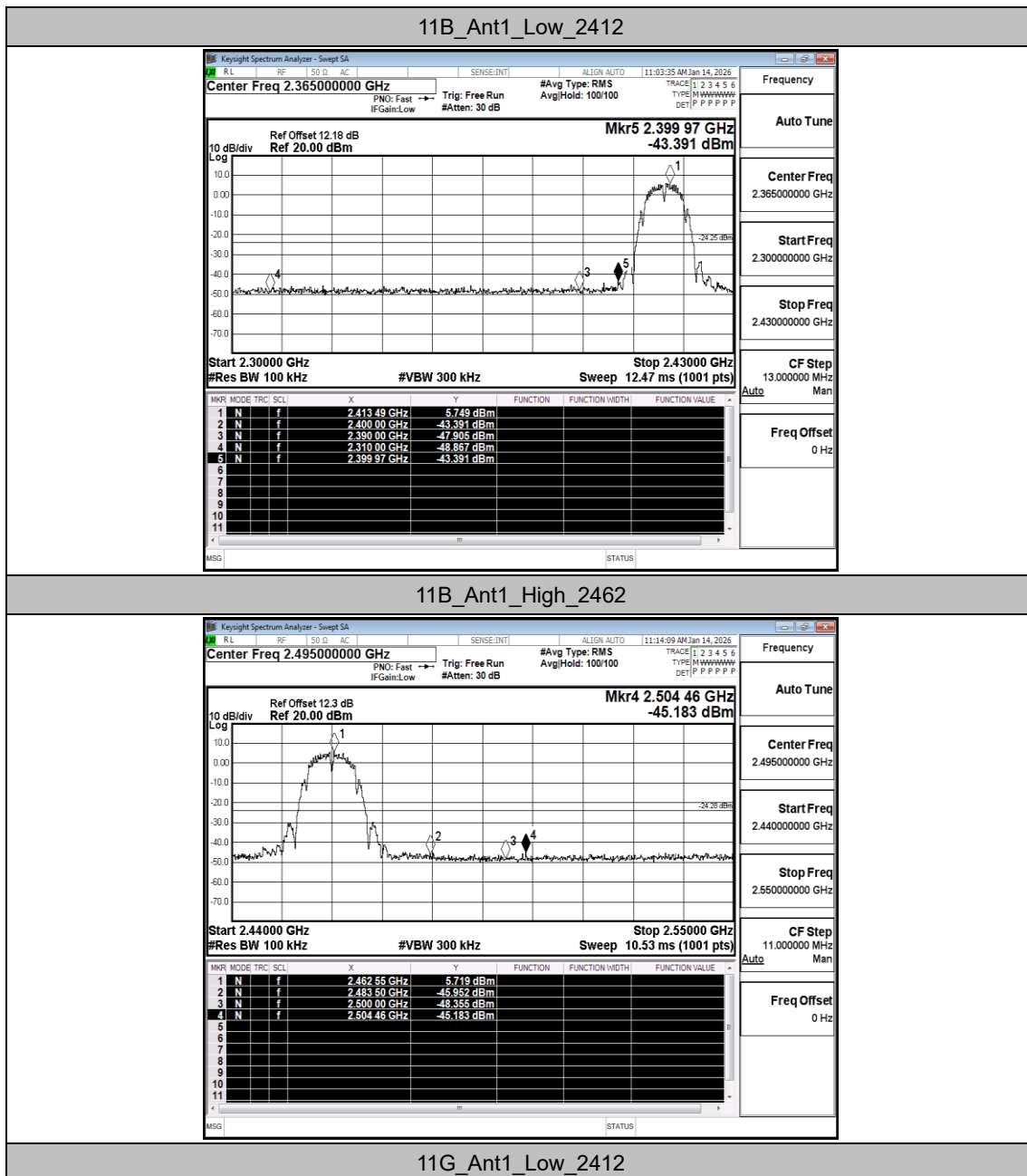
A.4 Band edge measurements

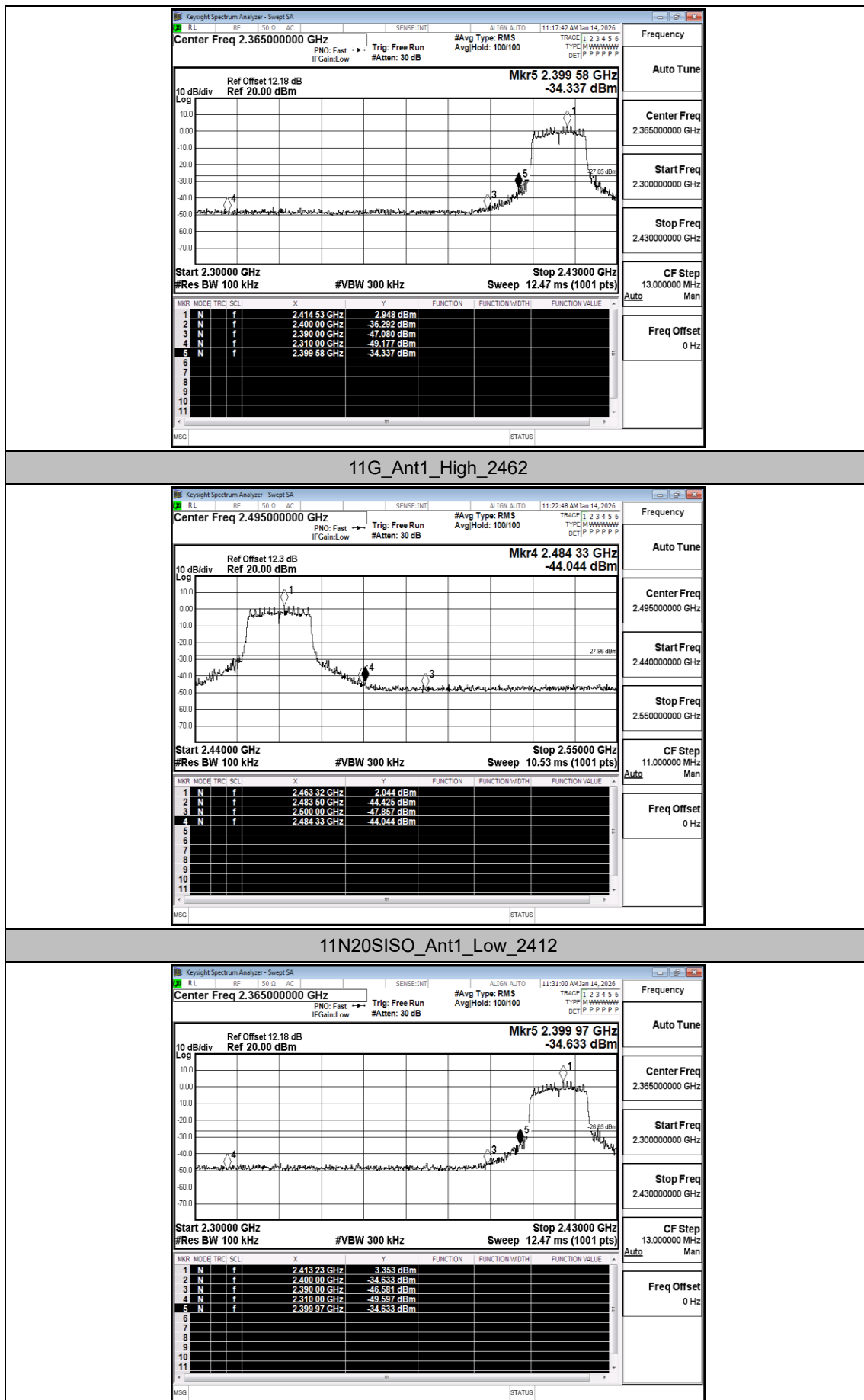
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.75	-43.39	≤-24.25	PASS
		High	2462	5.72	-45.18	≤-24.28	PASS
11G	Ant1	Low	2412	2.95	-34.34	≤-27.05	PASS
		High	2462	2.04	-44.04	≤-27.96	PASS
11N20SISO	Ant1	Low	2412	3.35	-34.63	≤-26.65	PASS
		High	2462	1.53	-42.77	≤-28.47	PASS

Note: offset=System attenuation +cabel loss

Test Graphs

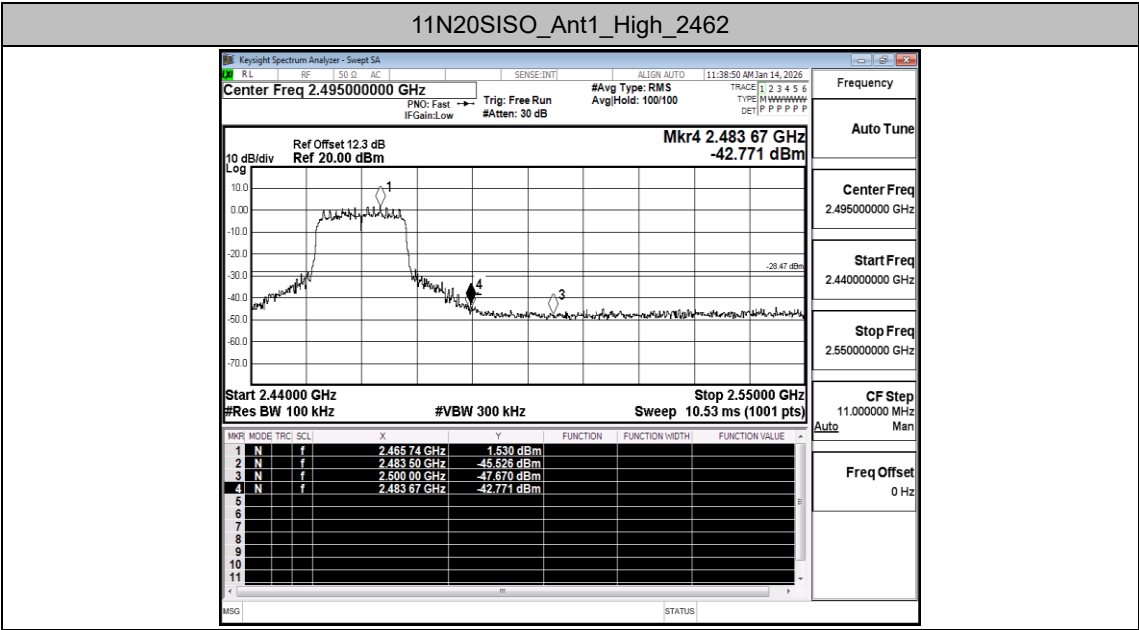




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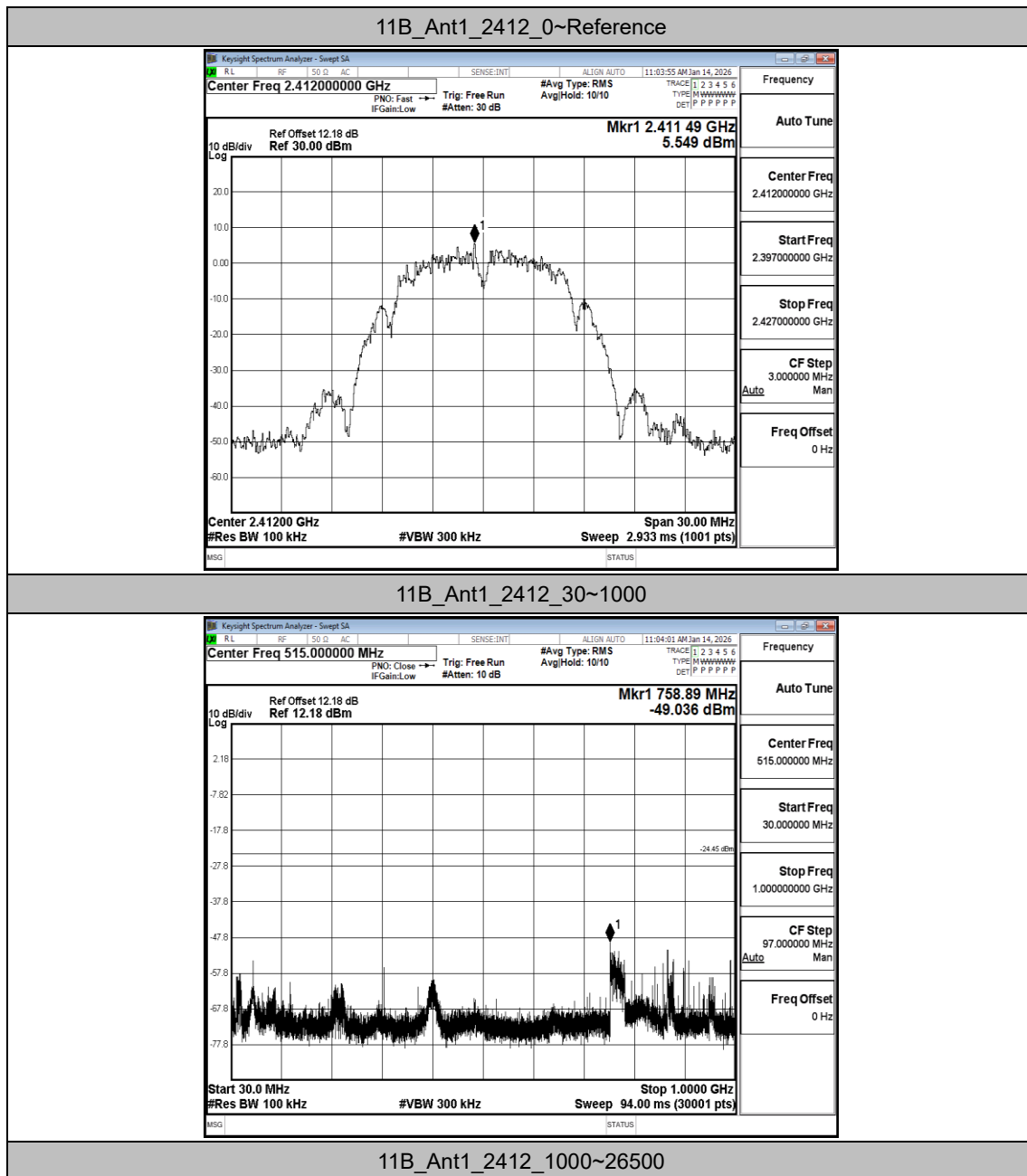
A.5 Conducted Spurious Emission

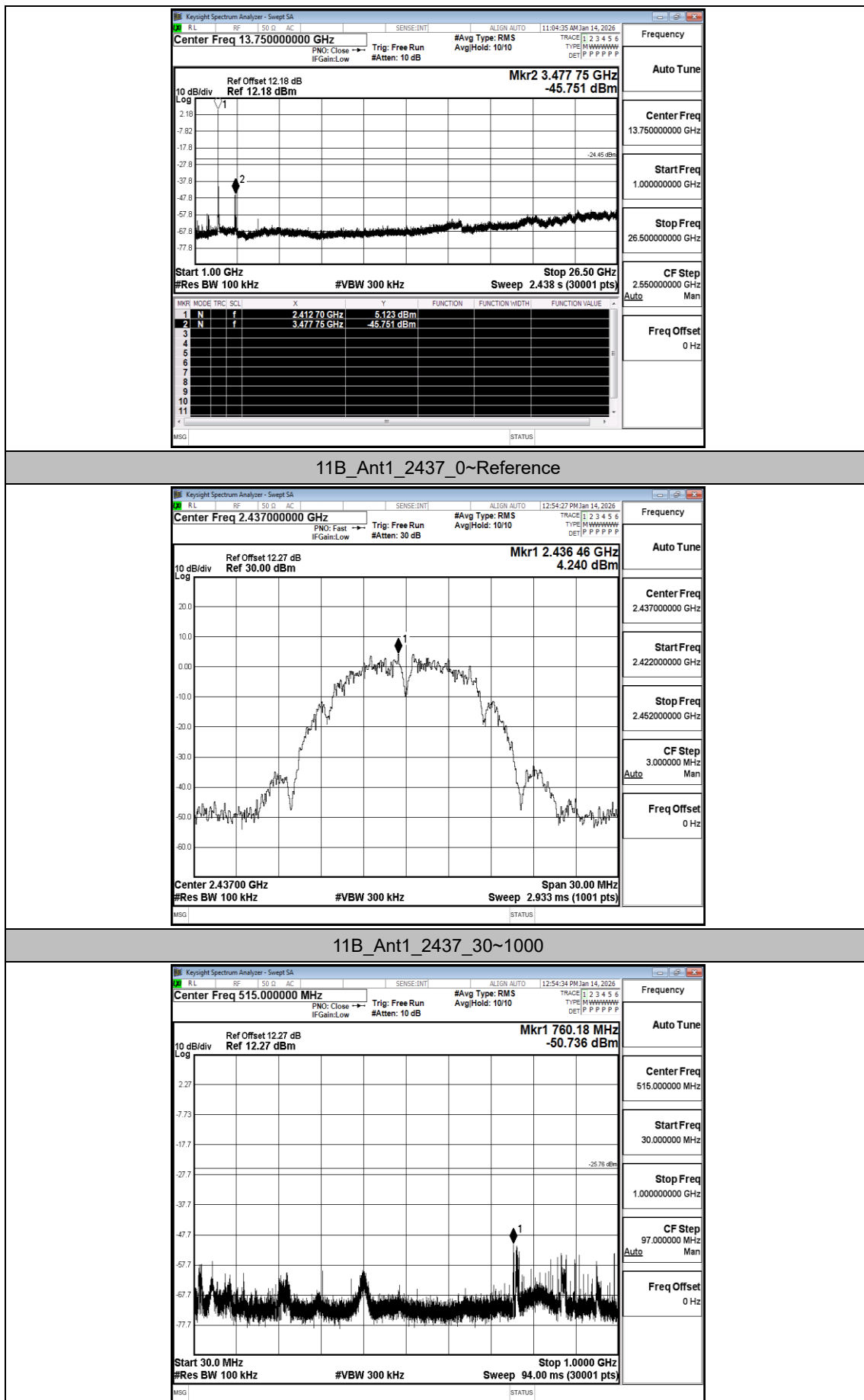
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.55	5.55	---	PASS
			30~1000	5.55	-49.04	≤-24.45	PASS
			1000~26500	5.55	-45.75	≤-24.45	PASS
		2437	Reference	4.24	4.24	---	PASS
			30~1000	4.24	-50.74	≤-25.76	PASS
			1000~26500	4.24	-42.94	≤-25.76	PASS
		2462	Reference	5.94	5.94	---	PASS
			30~1000	5.94	-47.42	≤-24.06	PASS
			1000~26500	5.94	-54.71	≤-24.06	PASS
11G	Ant1	2412	Reference	2.33	2.33	---	PASS
			30~1000	2.33	-45.83	≤-27.67	PASS
			1000~26500	2.33	-40.09	≤-27.67	PASS
		2437	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-49.15	≤-30.91	PASS
			1000~26500	-0.91	-42.06	≤-30.91	PASS
		2462	Reference	1.69	1.69	---	PASS
			30~1000	1.69	-49.81	≤-28.31	PASS
			1000~26500	1.69	-42.01	≤-28.31	PASS
11N20SISO	Ant1	2412	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-48.42	≤-26.75	PASS
			1000~26500	3.25	-47.58	≤-26.75	PASS
		2437	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-48.44	≤-30.67	PASS
			1000~26500	-0.67	-54.6	≤-30.67	PASS
		2462	Reference	0.20	0.20	---	PASS
			30~1000	0.20	-49.15	≤-29.8	PASS
			1000~26500	0.20	-54.87	≤-29.8	PASS

Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.

Test Graphs



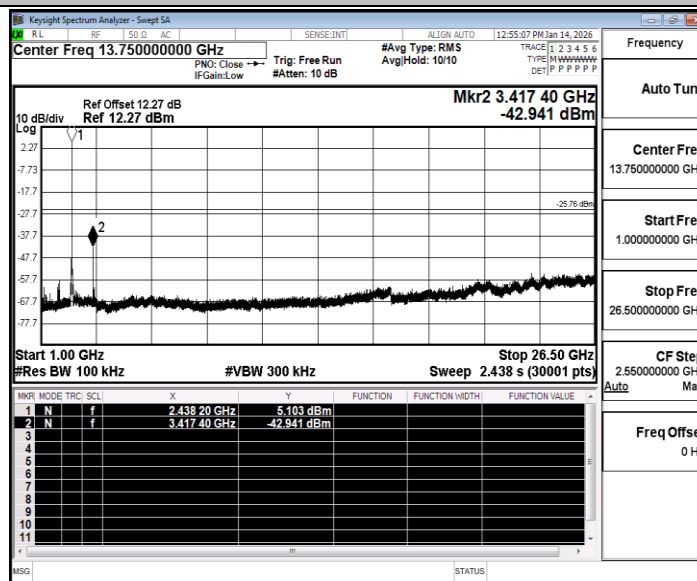


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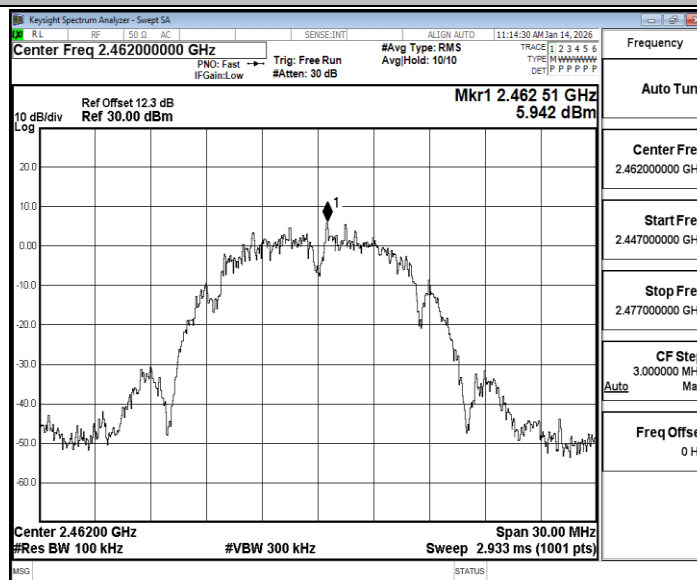
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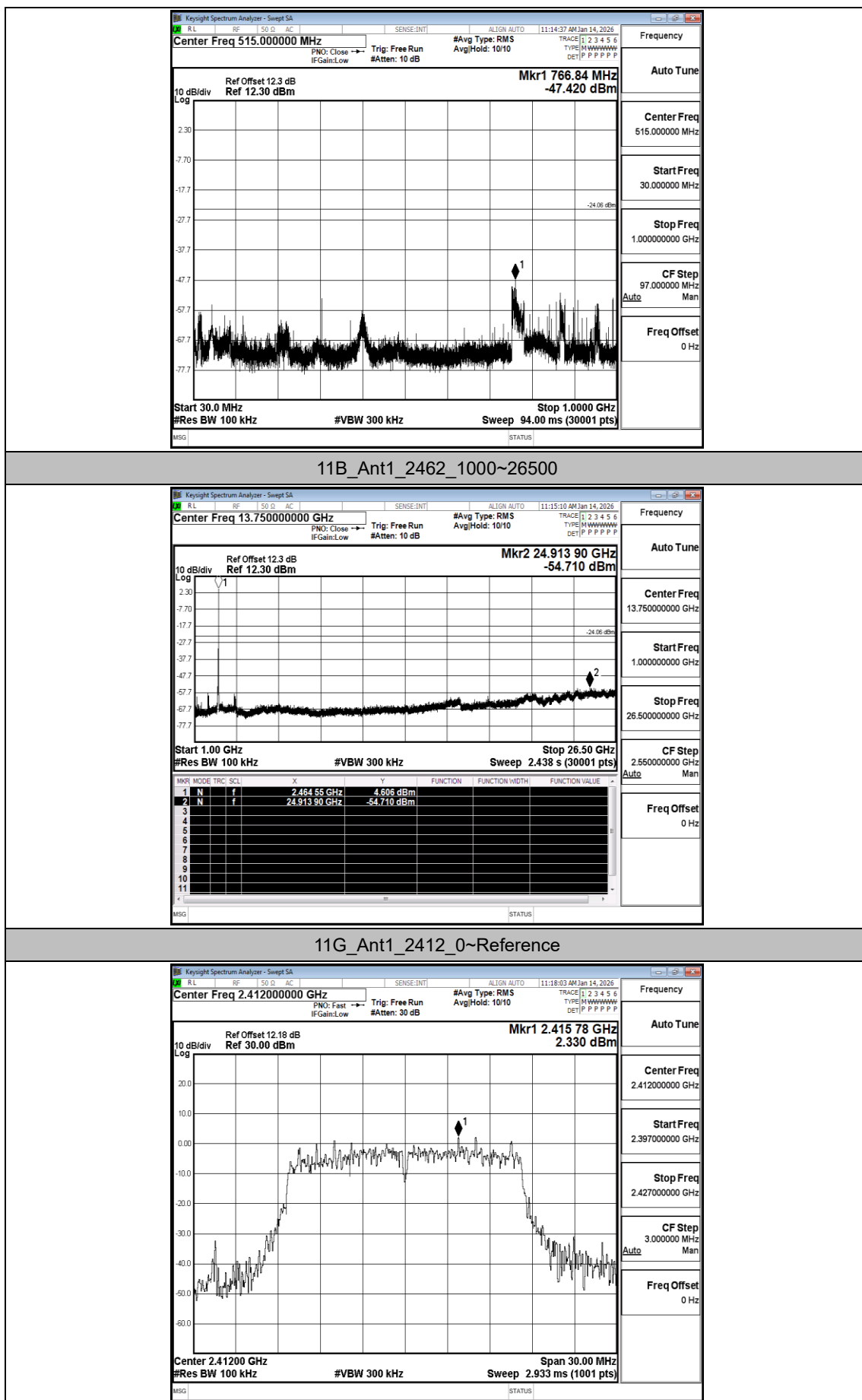
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



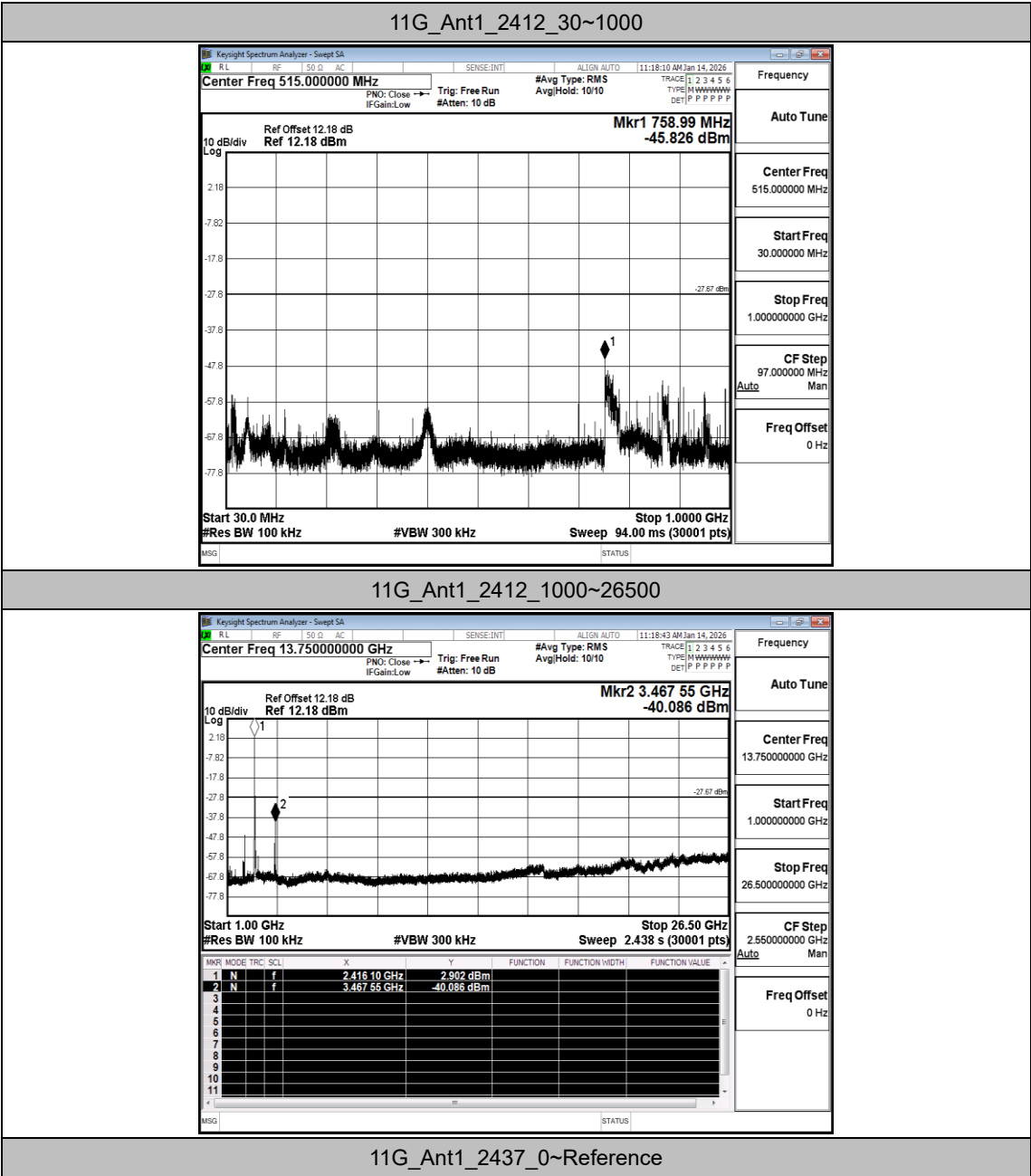
11B_Ant1_2462_30~1000

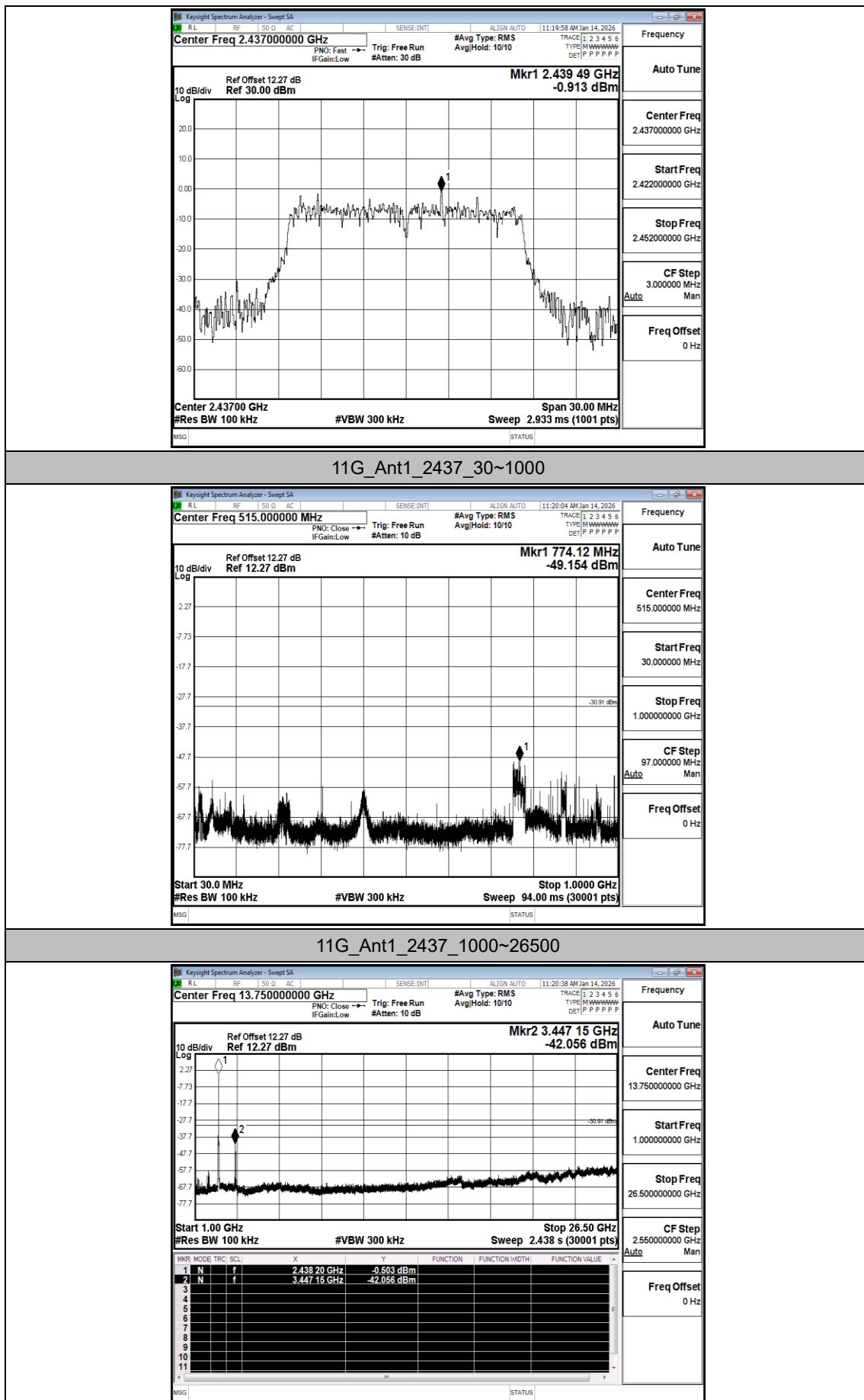


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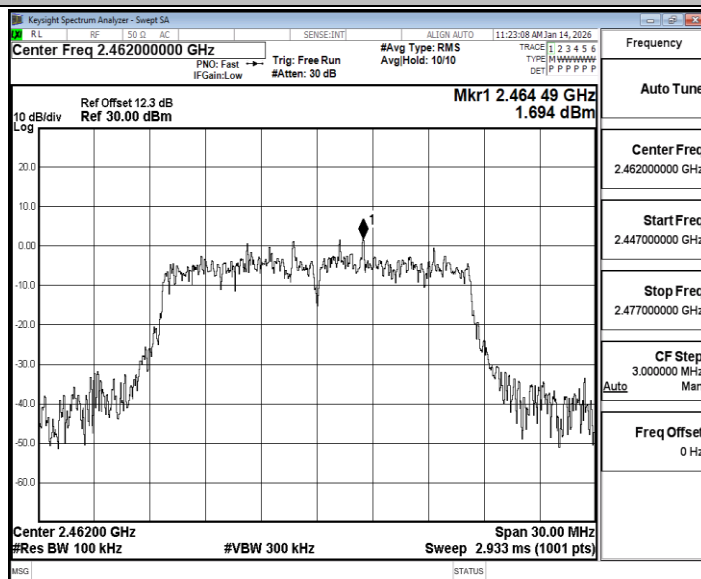


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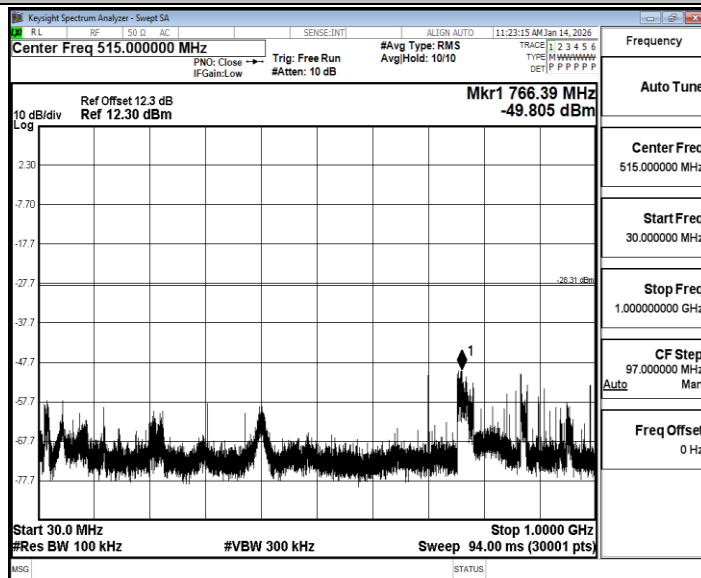
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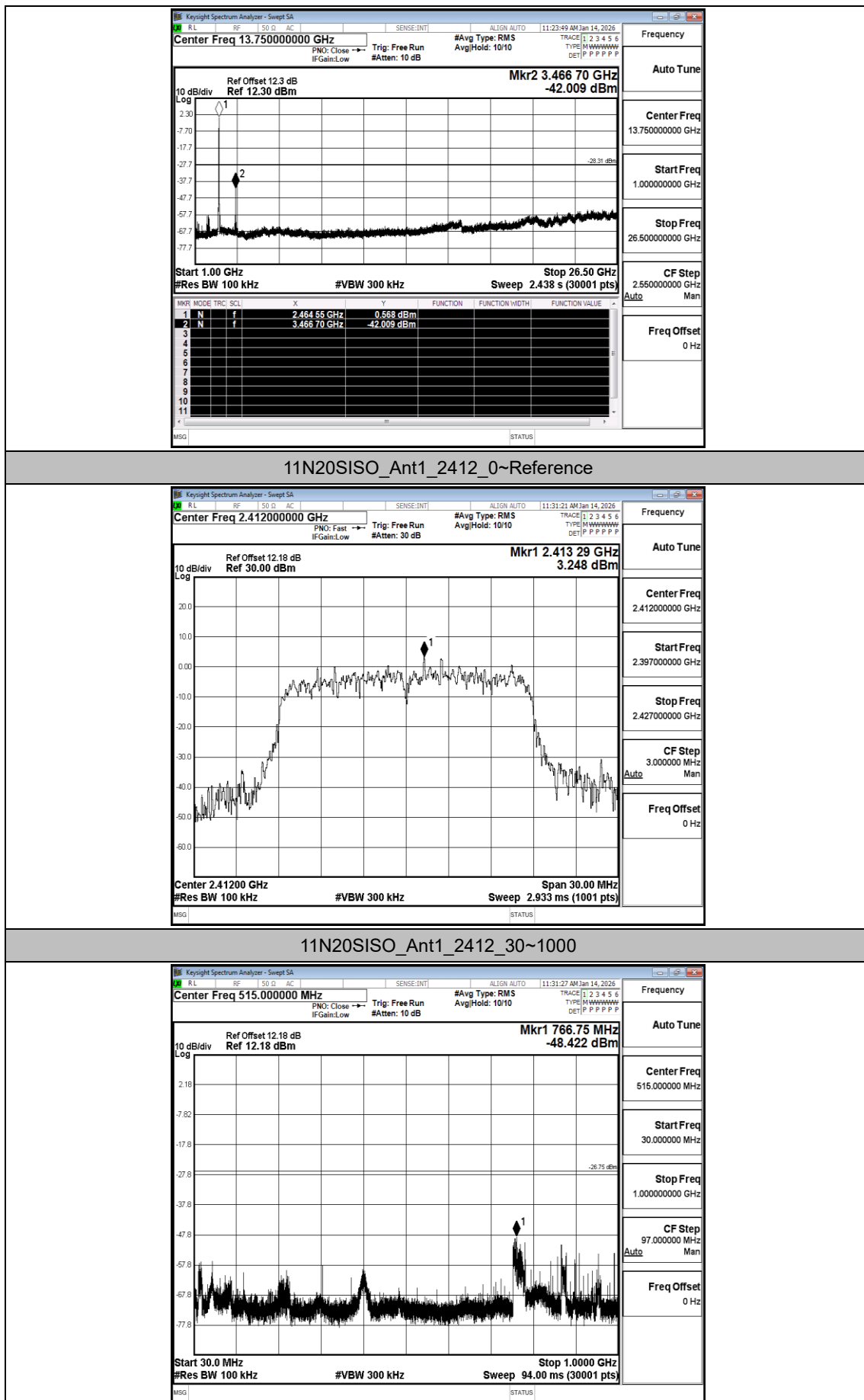
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



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