

Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Tablet

Test Model: HPD-AD610

Environmental Conditions

Temperature:	24.7°C
Relative Humidity:	55.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

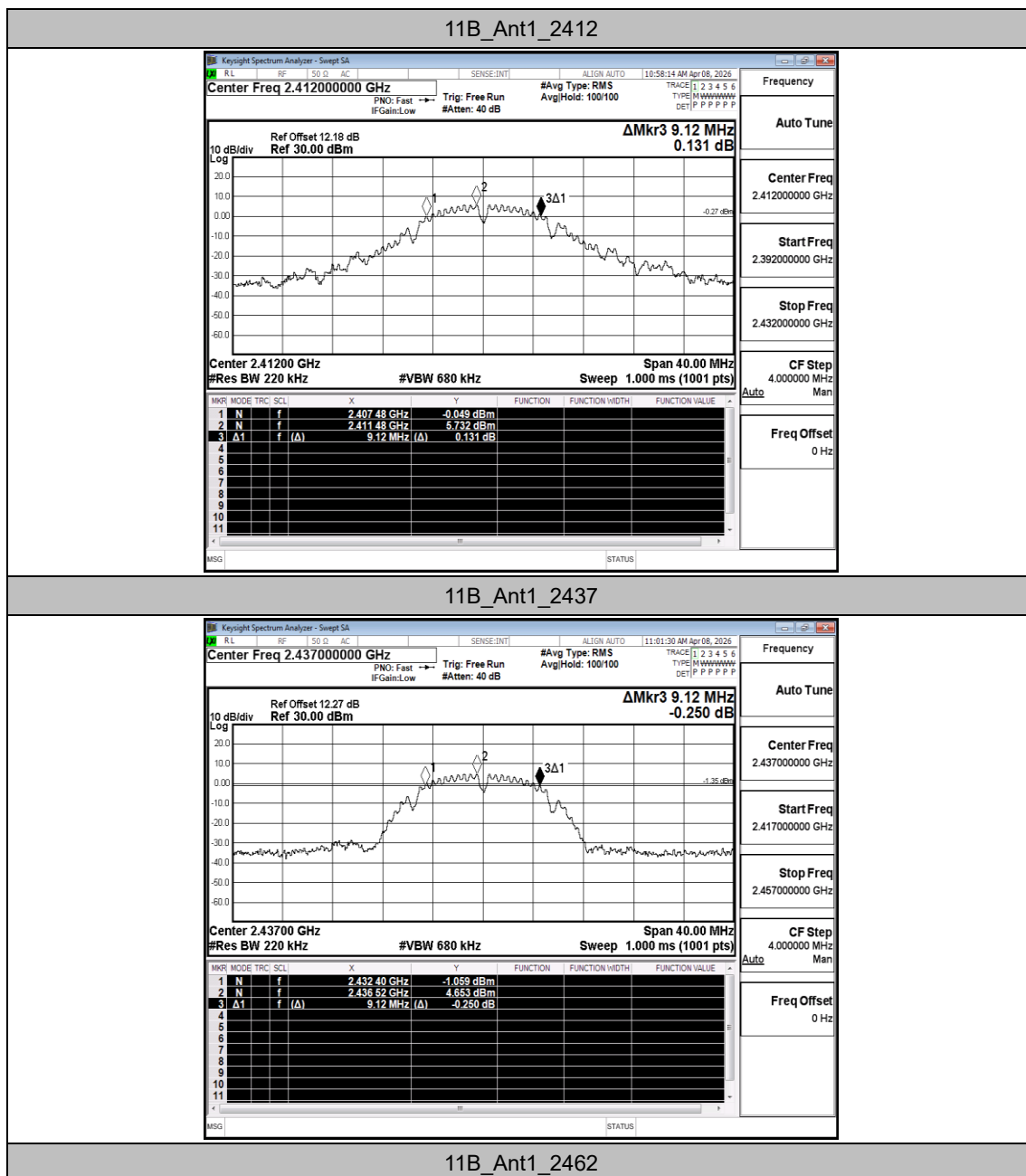
C.1 DTS Bandwidth

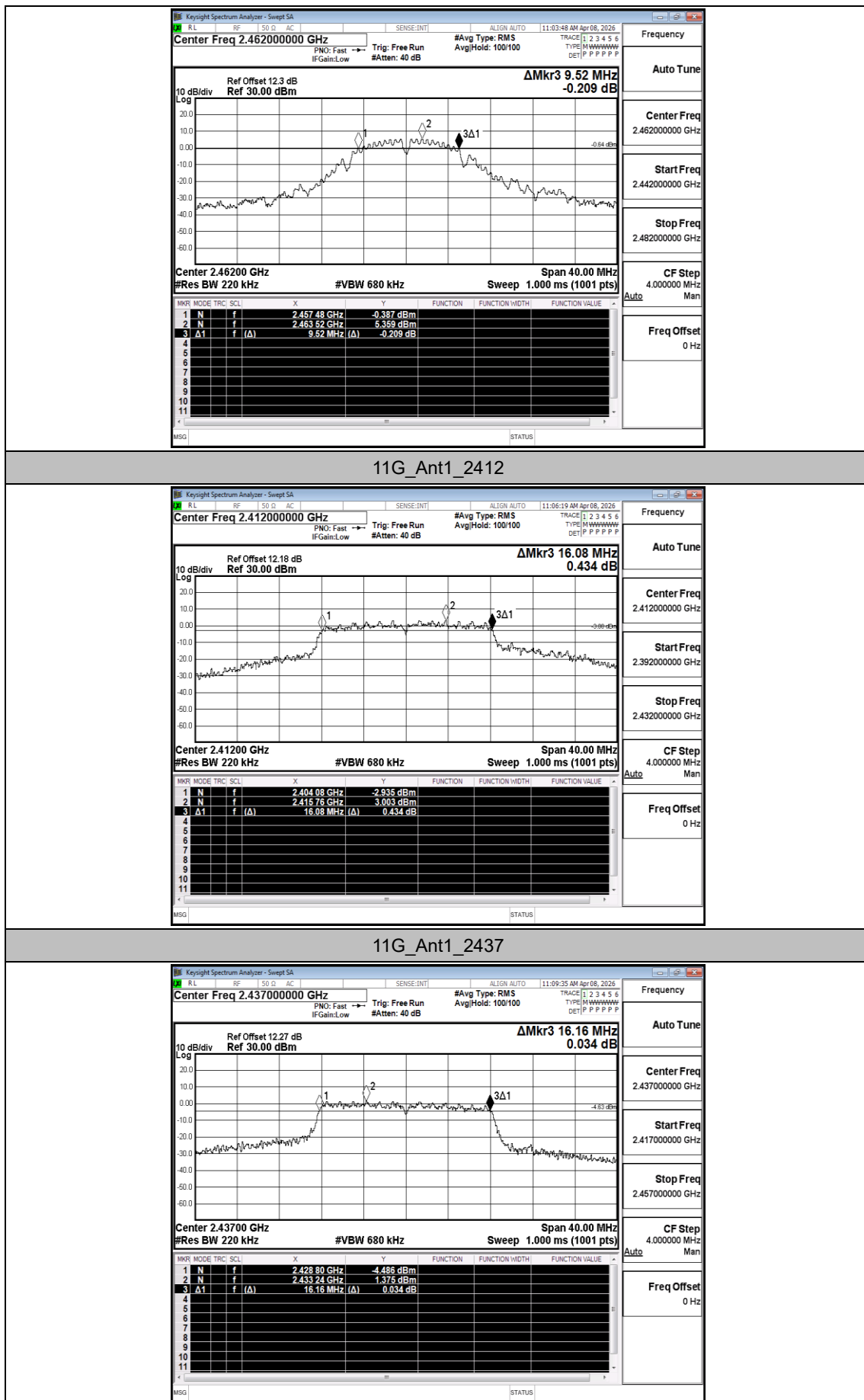
Test Result

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	9.120	2407.480	2416.600	0.5	PASS
		2437	9.120	2432.400	2441.520	0.5	PASS
		2462	9.520	2457.480	2467.000	0.5	PASS
11G	Ant1	2412	16.080	2404.080	2420.160	0.5	PASS
		2437	16.160	2428.800	2444.960	0.5	PASS
		2462	16.120	2454.040	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.880	2403.800	2420.680	0.5	PASS
		2437	17.080	2428.240	2445.320	0.5	PASS
		2462	16.880	2453.680	2470.560	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.080	2439.600	0.5	PASS
		2437	36.000	2418.760	2454.760	0.5	PASS
		2452	36.480	2433.840	2470.320	0.5	PASS

Note: offset=System attenuation +cabel loss

Test Graphs



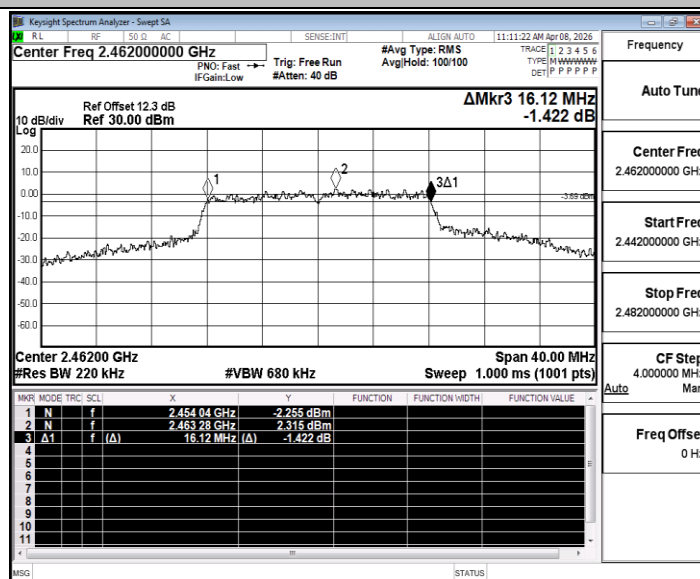


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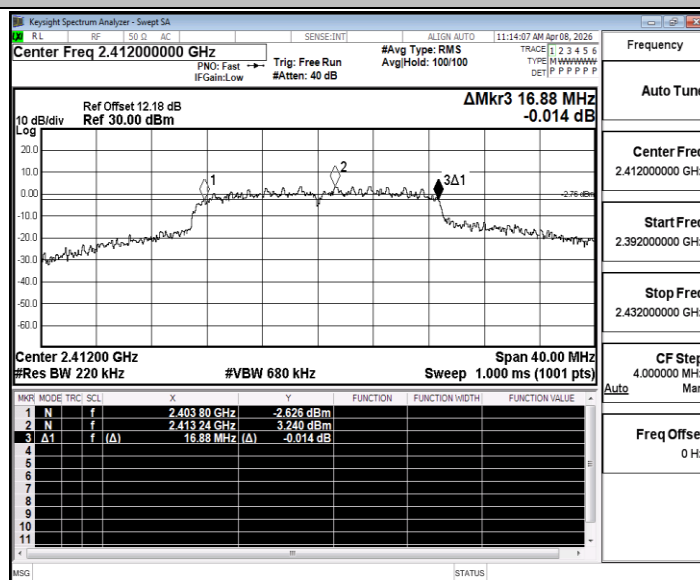
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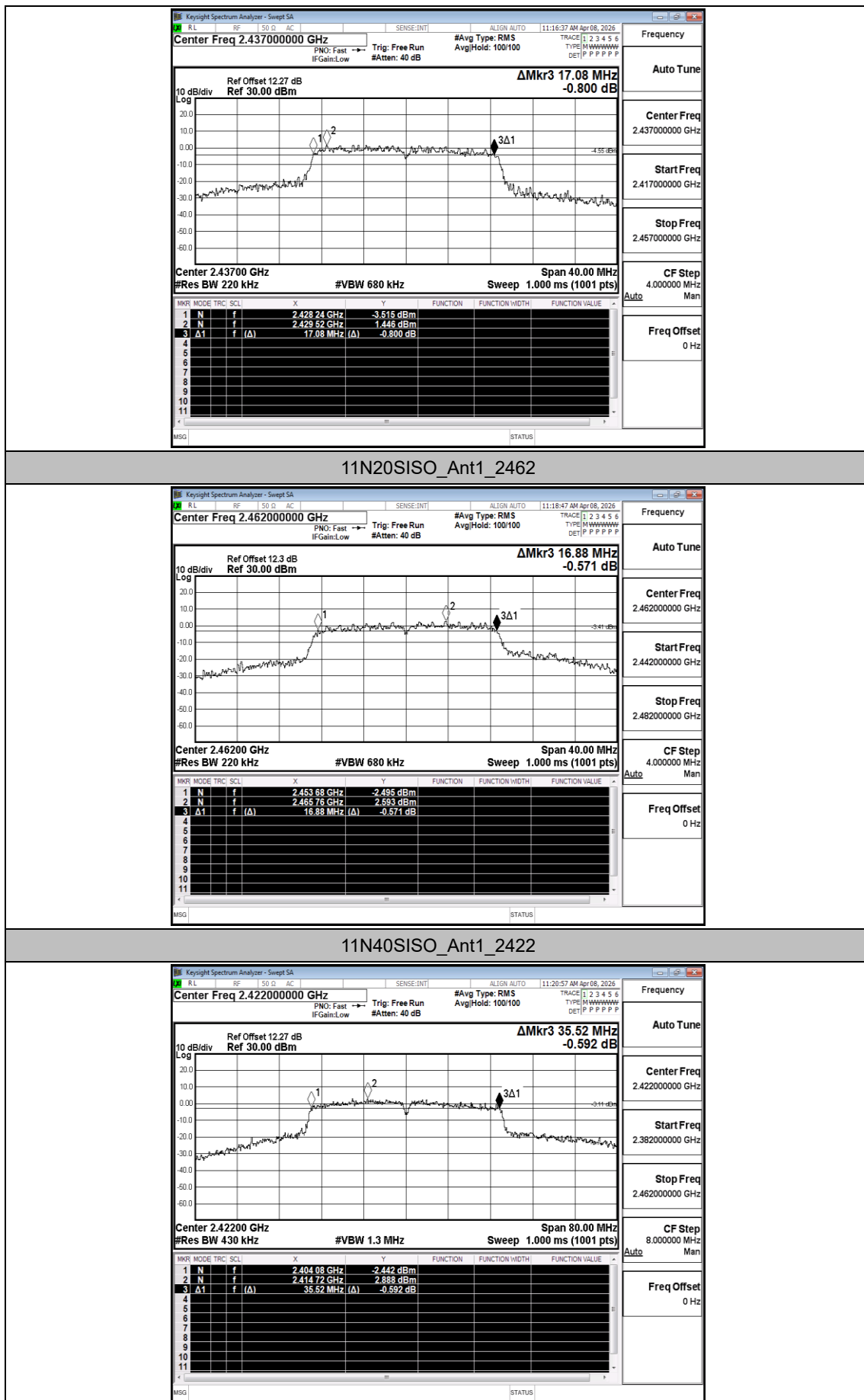
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

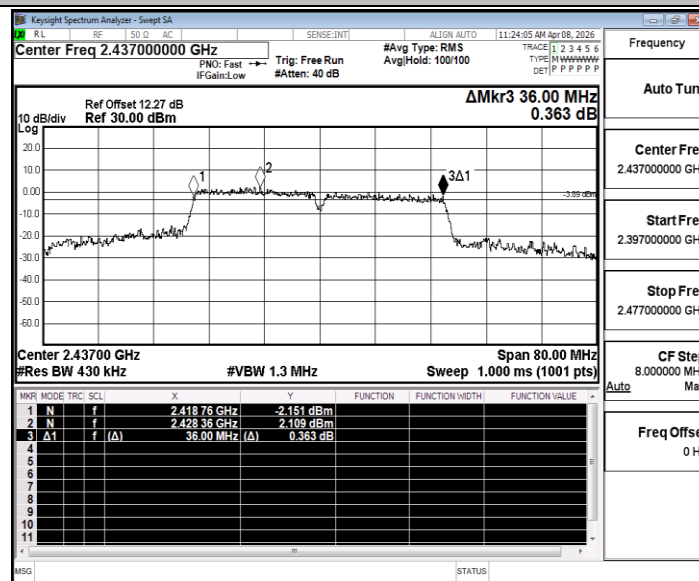


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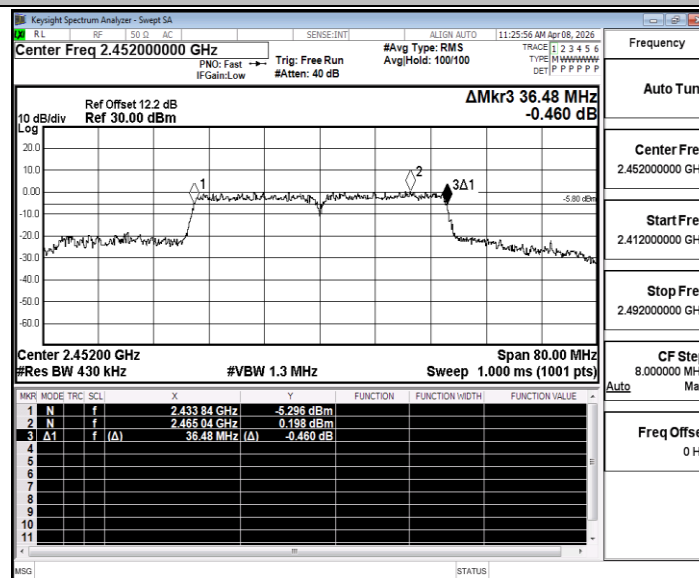
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



C.2 Maximum Average conducted output power

Test Result Average

TestMode	Antenna	Frequency [MHz]	Measured Power	DC Factor [dB]	AV Power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.01	0.28	14.29	≤36.00	PASS
		2437	12.78	0.34	13.12	≤36.00	PASS
		2462	13.39	0.34	13.73	≤36.00	PASS
11G	Ant1	2412	10.80	1.76	12.56	≤36.00	PASS
		2437	9.35	2.14	11.49	≤36.00	PASS
		2462	9.90	1.76	11.66	≤36.00	PASS
11N20SISO	Ant1	2412	11.17	1.76	12.93	≤36.00	PASS
		2437	9.75	1.76	11.51	≤36.00	PASS
		2462	10.27	1.89	12.16	≤36.00	PASS
11N40SISO	Ant1	2422	10.39	2.43	12.82	≤36.00	PASS
		2437	9.38	2.43	11.81	≤36.00	PASS
		2452	8.45	3.01	11.46	≤36.00	PASS

Note: offset=System attenuation +cabel loss

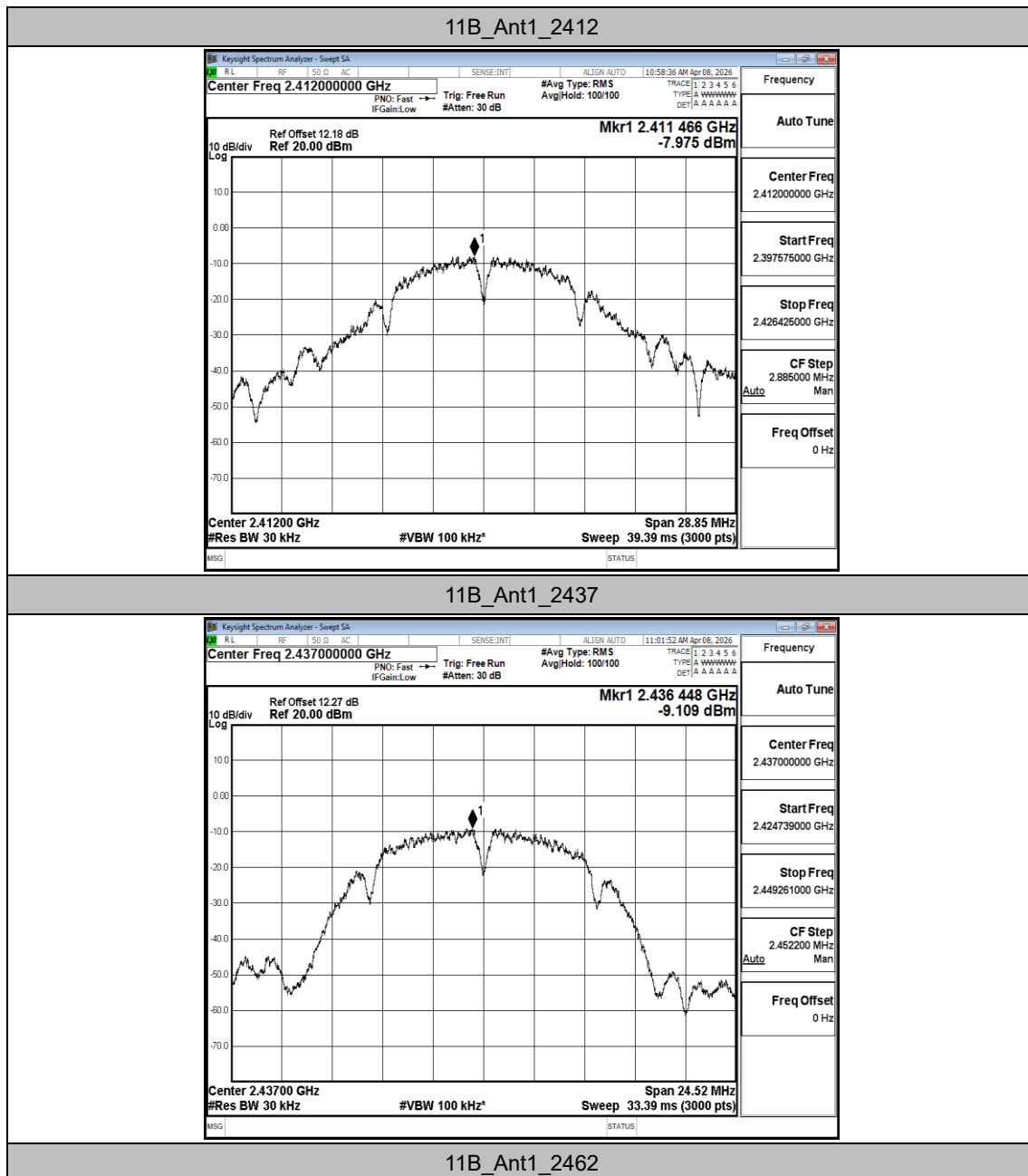
C.3 Maximum power spectral density

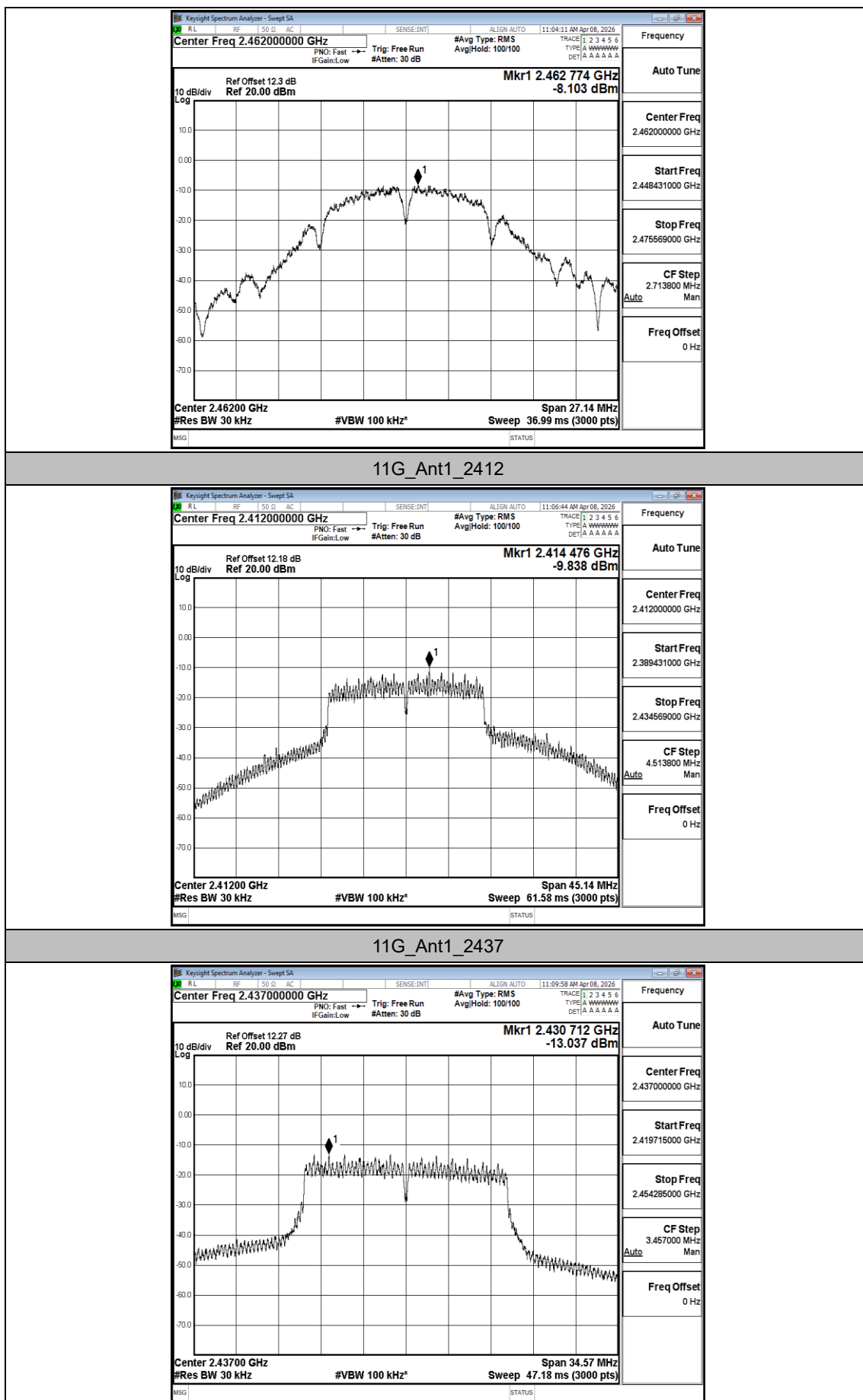
Test Result

TestMode	Antenna	Frequency [MHz]	Measured PSD [dBm/3kHz]	DC Factor [dB]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.98	0.28	-7.70	≤8.00	PASS
		2437	-9.11	0.34	-8.77	≤8.00	PASS
		2462	-8.1	0.34	-7.76	≤8.00	PASS
11G	Ant1	2412	-9.84	1.76	-8.08	≤8.00	PASS
		2437	-13.04	2.14	-10.90	≤8.00	PASS
		2462	-11.32	1.76	-9.56	≤8.00	PASS
11N20SISO	Ant1	2412	-10.33	1.76	-8.57	≤8.00	PASS
		2437	-11.65	1.76	-9.89	≤8.00	PASS
		2462	-11.12	1.89	-9.23	≤8.00	PASS
11N40SISO	Ant1	2422	-12.82	2.43	-10.39	≤8.00	PASS
		2437	-14.2	2.43	-11.77	≤8.00	PASS
		2452	-15.86	3.01	-12.85	≤8.00	PASS

Note: offset=System attenuation +cabal loss

Test Graphs



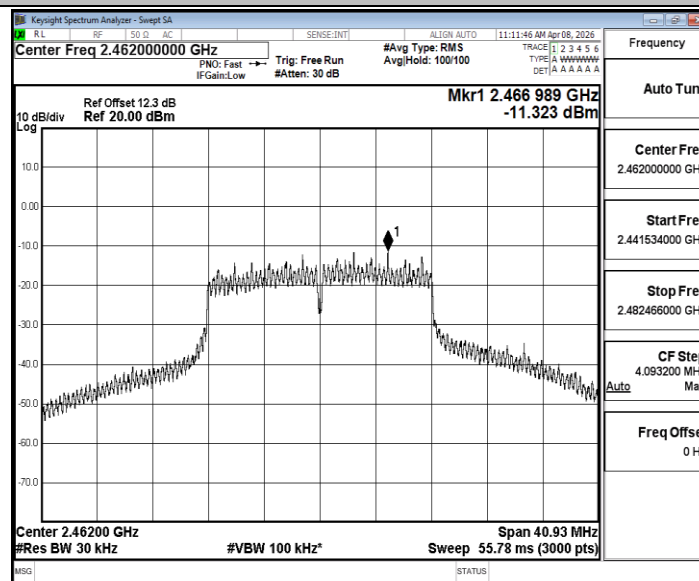


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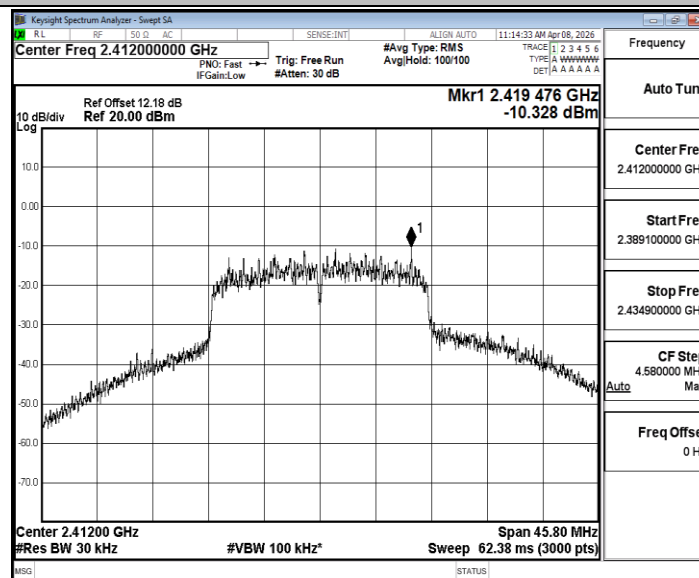
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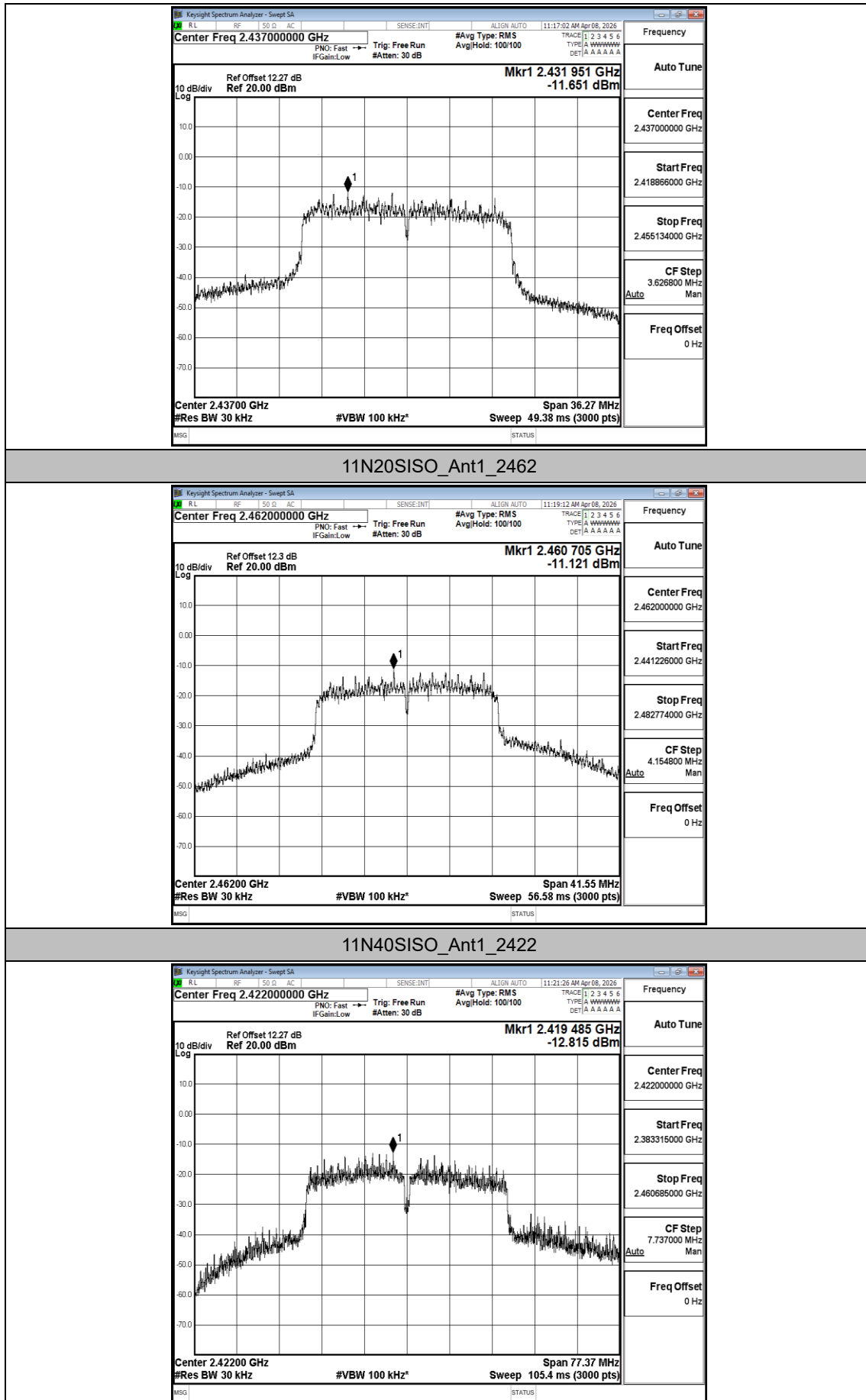
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

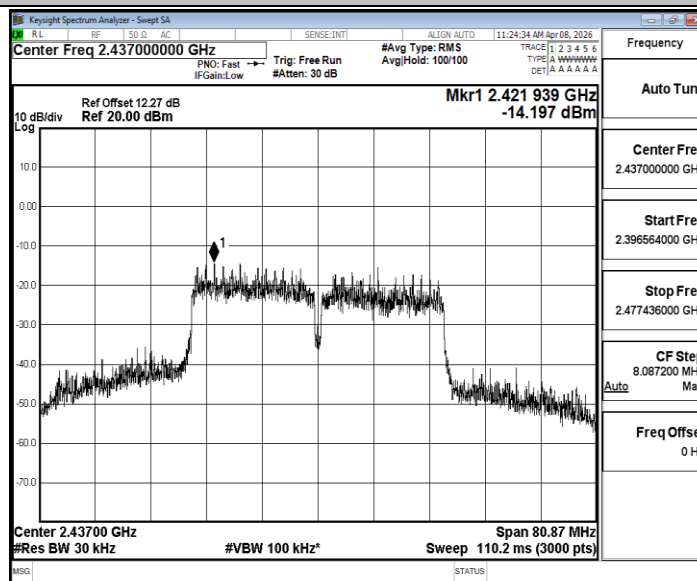


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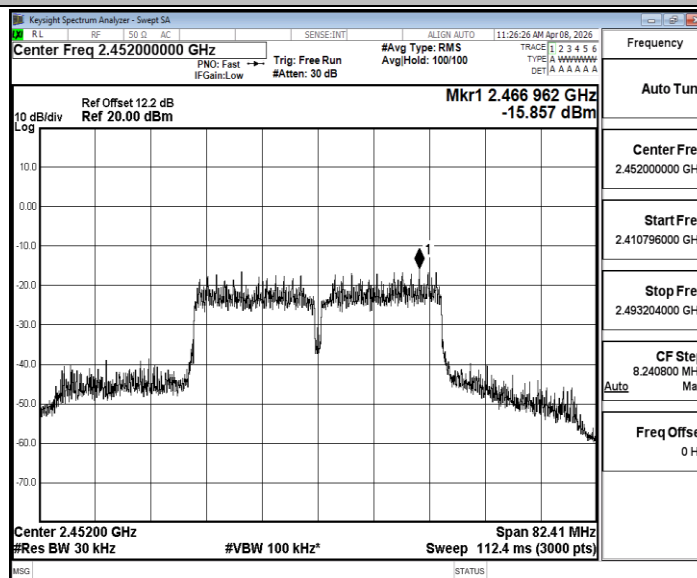
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



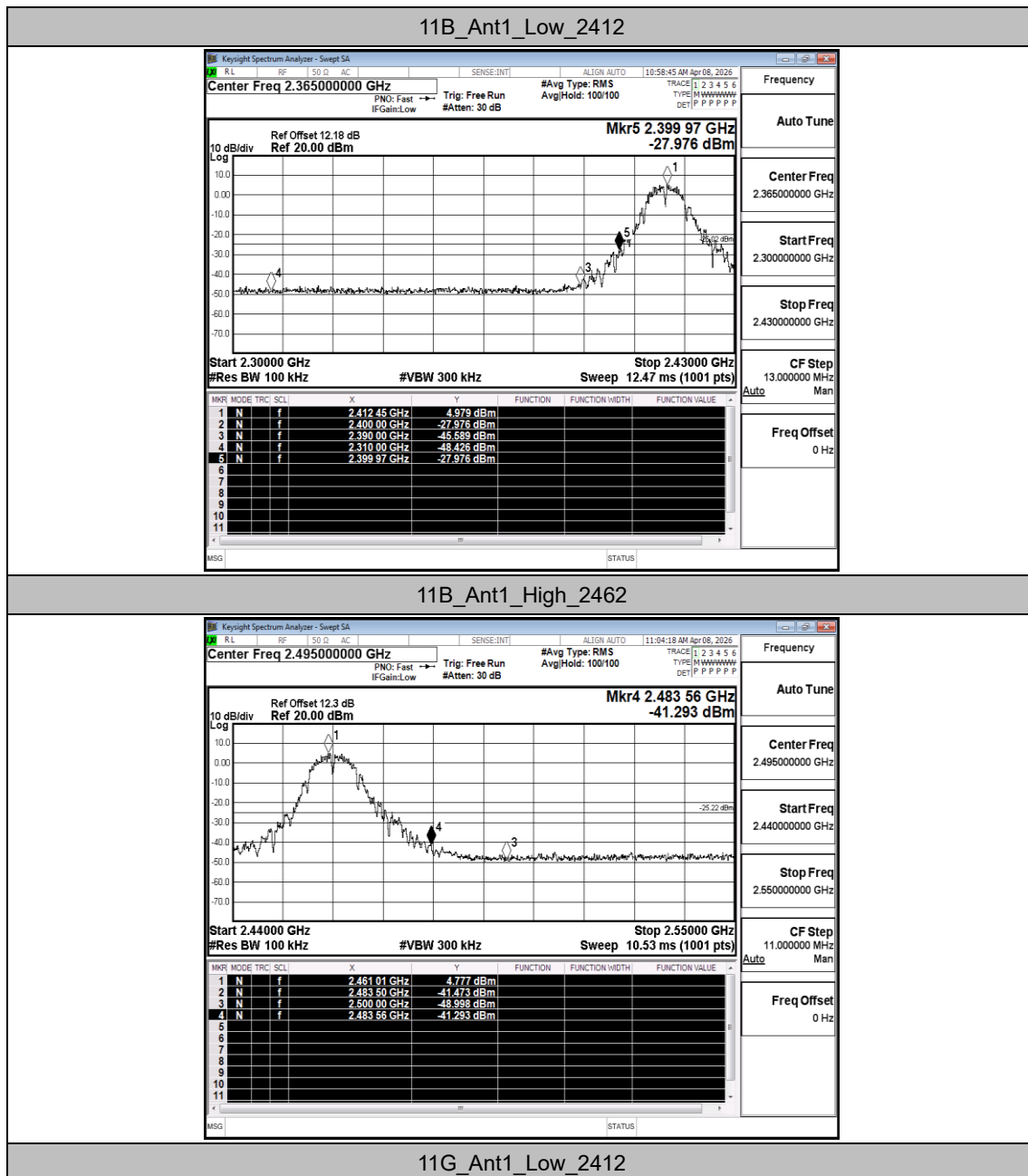
C.4 Band edge measurements

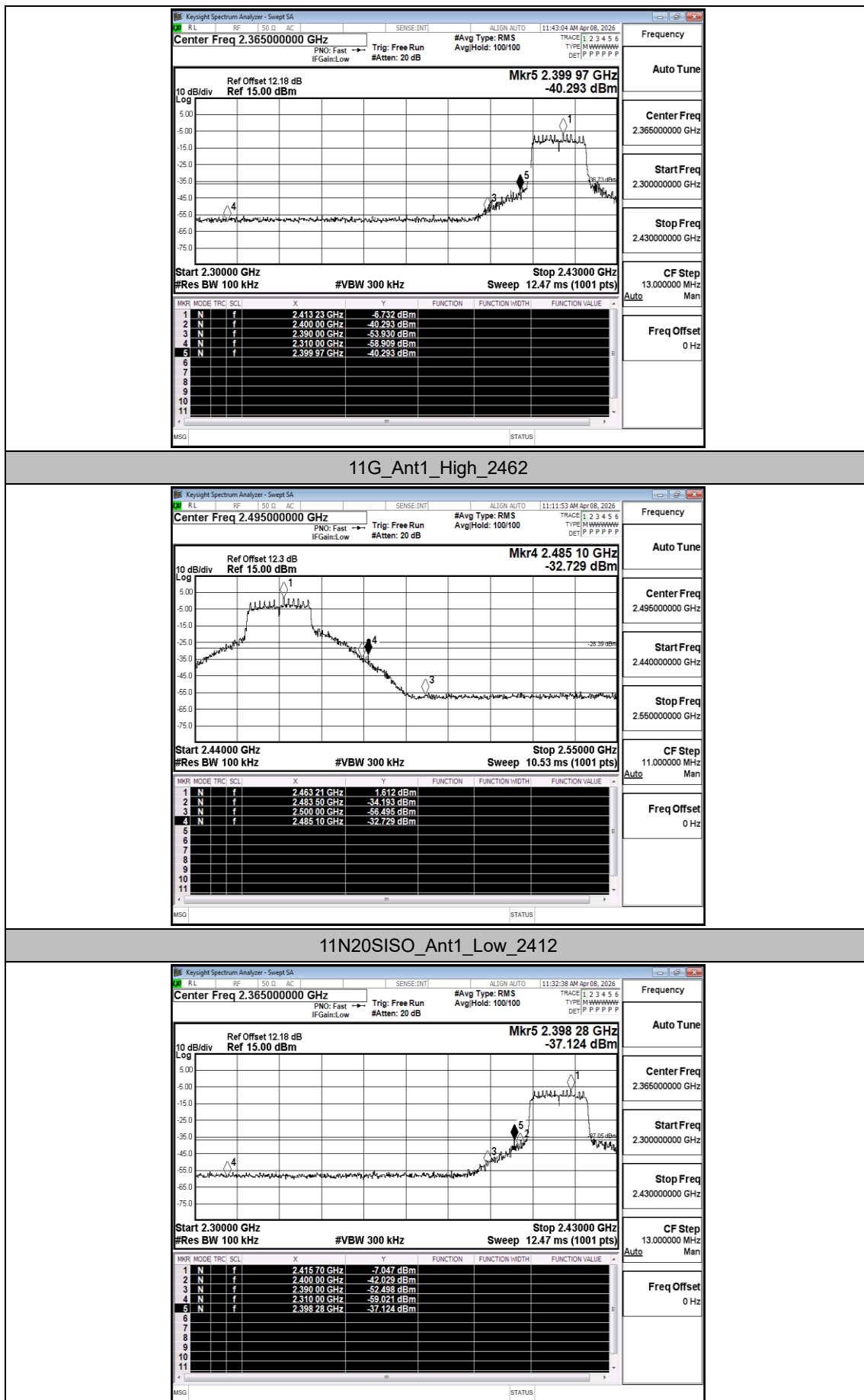
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.98	-27.98	≤-25.02	PASS
		High	2462	4.78	-41.29	≤-25.22	PASS
11G	Ant1	Low	2412	-6.73	-40.29	≤-36.73	PASS
		High	2462	1.61	-32.73	≤-28.39	PASS
11N20SIS O	Ant1	Low	2412	-7.05	-37.12	≤-37.05	PASS
		High	2462	1.85	-30.36	≤-28.15	PASS
11N40SIS O	Ant1	Low	2422	-8.34	-43.21	≤-38.34	PASS
		High	2452	-10.49	-53.66	≤-40.49	PASS

Note: offset=System attenuation +cabel loss

Test Graphs



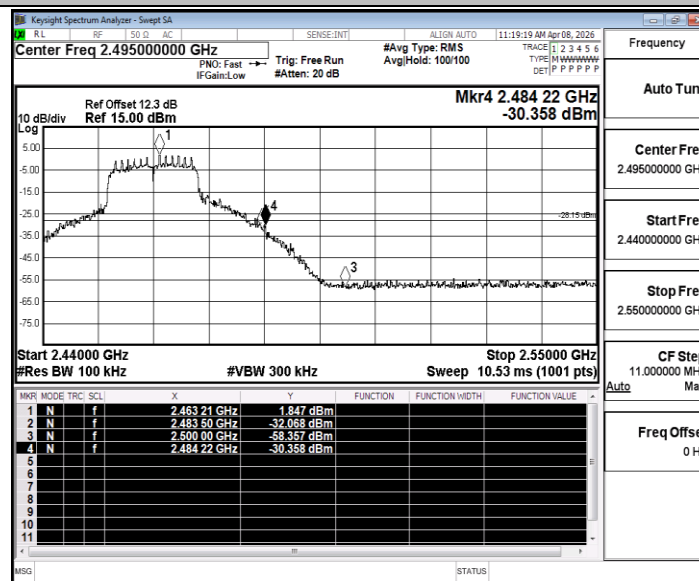


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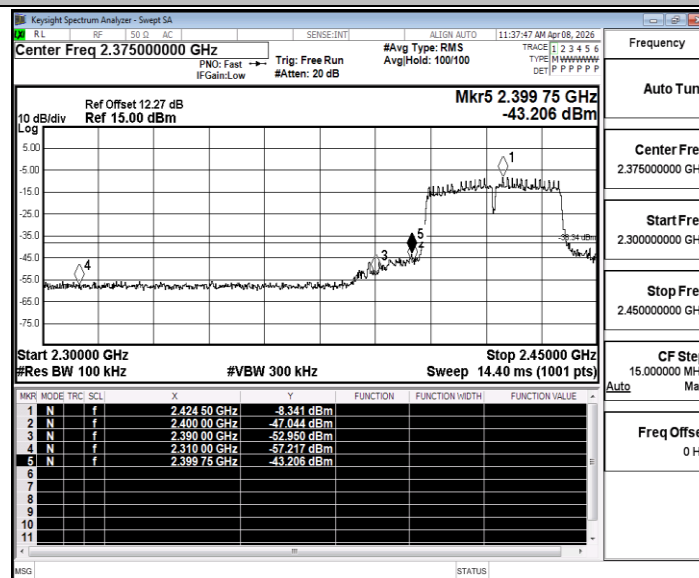
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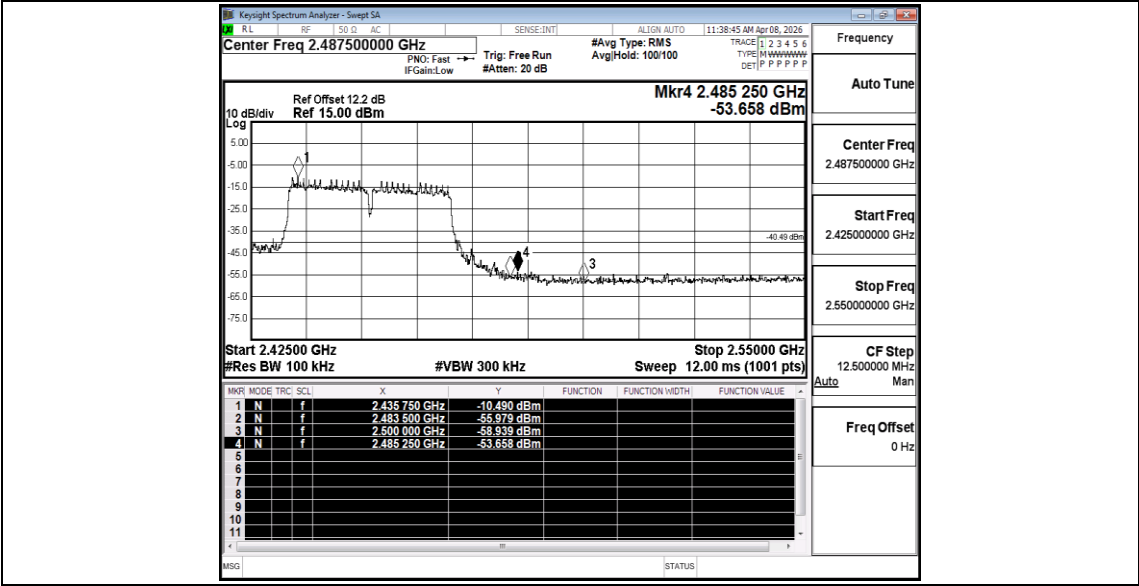
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.28	3.28	---	PASS
			30~1000	3.28	-62.62	≤-26.72	PASS
			1000~26500	3.28	-43.59	≤-26.72	PASS
		2437	Reference	3.52	3.52	---	PASS
			30~1000	3.52	-61.06	≤-26.48	PASS
			1000~26500	3.52	-43.37	≤-26.48	PASS
		2462	Reference	3.15	3.15	---	PASS
			30~1000	3.15	-64.21	≤-26.85	PASS
			1000~26500	3.15	-43.62	≤-26.85	PASS
11G	Ant1	2412	Reference	1.99	1.99	---	PASS
			30~1000	1.99	-63.49	≤-28.01	PASS
			1000~26500	1.99	-43.09	≤-28.01	PASS
		2437	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-59.1	≤-29.87	PASS
			1000~26500	0.13	-42.14	≤-29.87	PASS
		2462	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-57.16	≤-29.38	PASS
			1000~26500	0.62	-42.75	≤-29.38	PASS
11N20SISO	Ant1	2412	Reference	1.93	1.93	---	PASS
			30~1000	1.93	-62.04	≤-28.07	PASS
			1000~26500	1.93	-43.25	≤-28.07	PASS
		2437	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-64.46	≤-30.14	PASS
			1000~26500	-0.14	-42.93	≤-30.14	PASS
		2462	Reference	1.76	1.76	---	PASS
			30~1000	1.76	-61.4	≤-28.24	PASS
			1000~26500	1.76	-43.59	≤-28.24	PASS
11N40SISO	Ant1	2422	Reference	-0.30	-0.30	---	PASS
			30~1000	-0.30	-59.69	≤-30.3	PASS
			1000~26500	-0.30	-42.69	≤-30.3	PASS
		2437	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-61.93	≤-31.32	PASS
			1000~26500	-1.32	-43.58	≤-31.32	PASS
		2452	Reference	-3.03	-3.03	---	PASS
			30~1000	-3.03	-58.03	≤-33.03	PASS
			1000~26500	-3.03	-43.28	≤-33.03	PASS

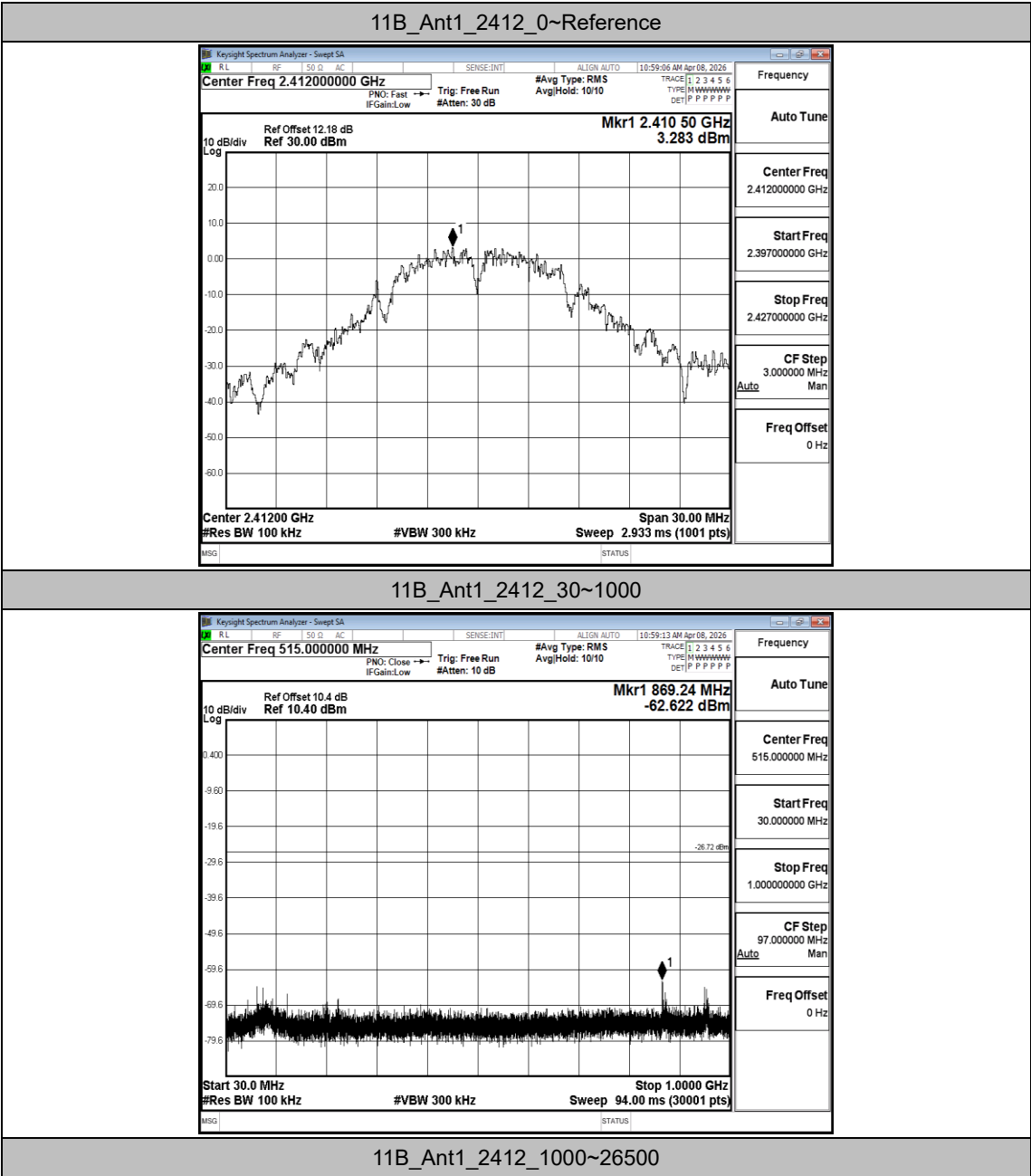
Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.

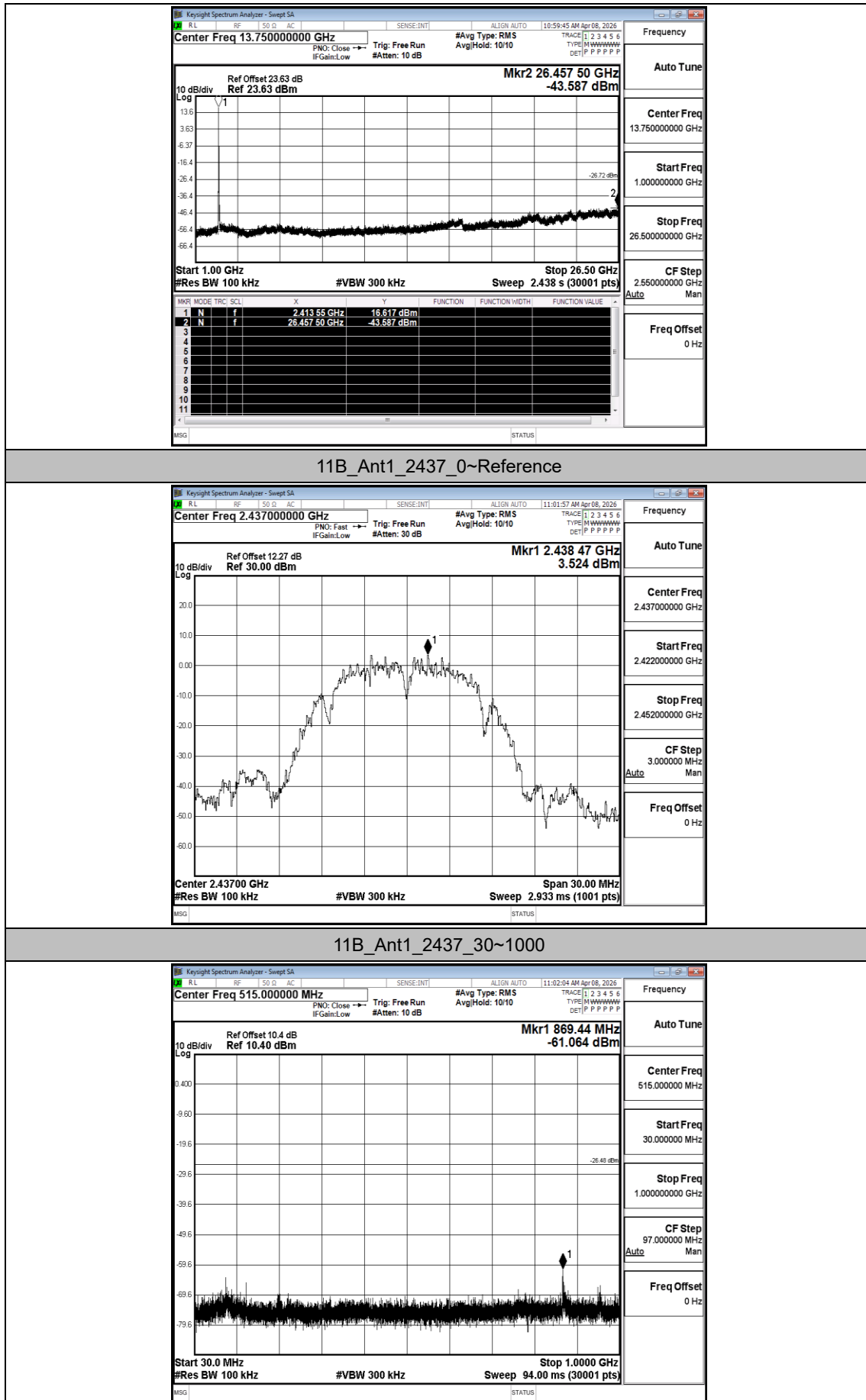
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Test Graphs



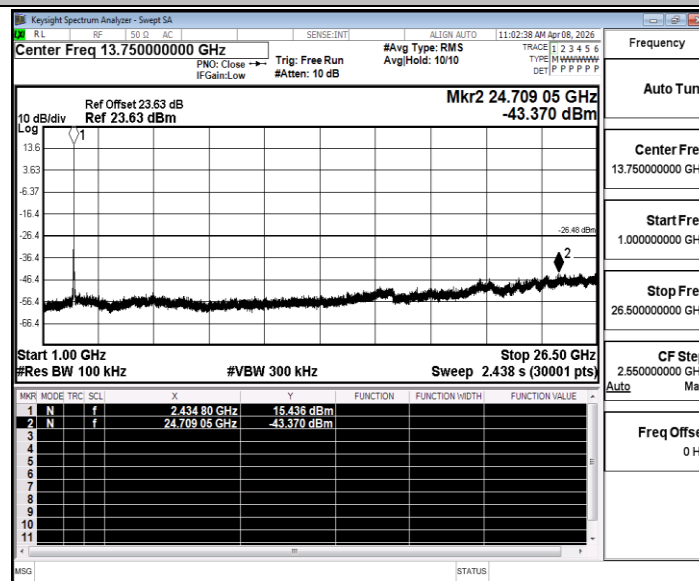


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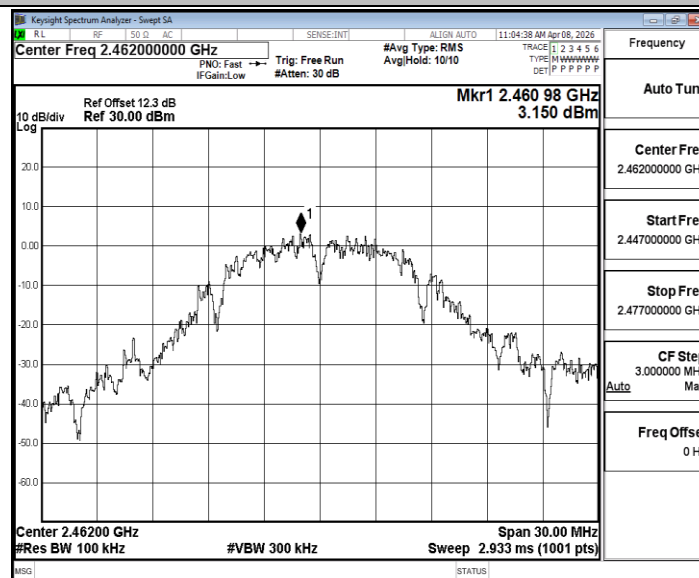
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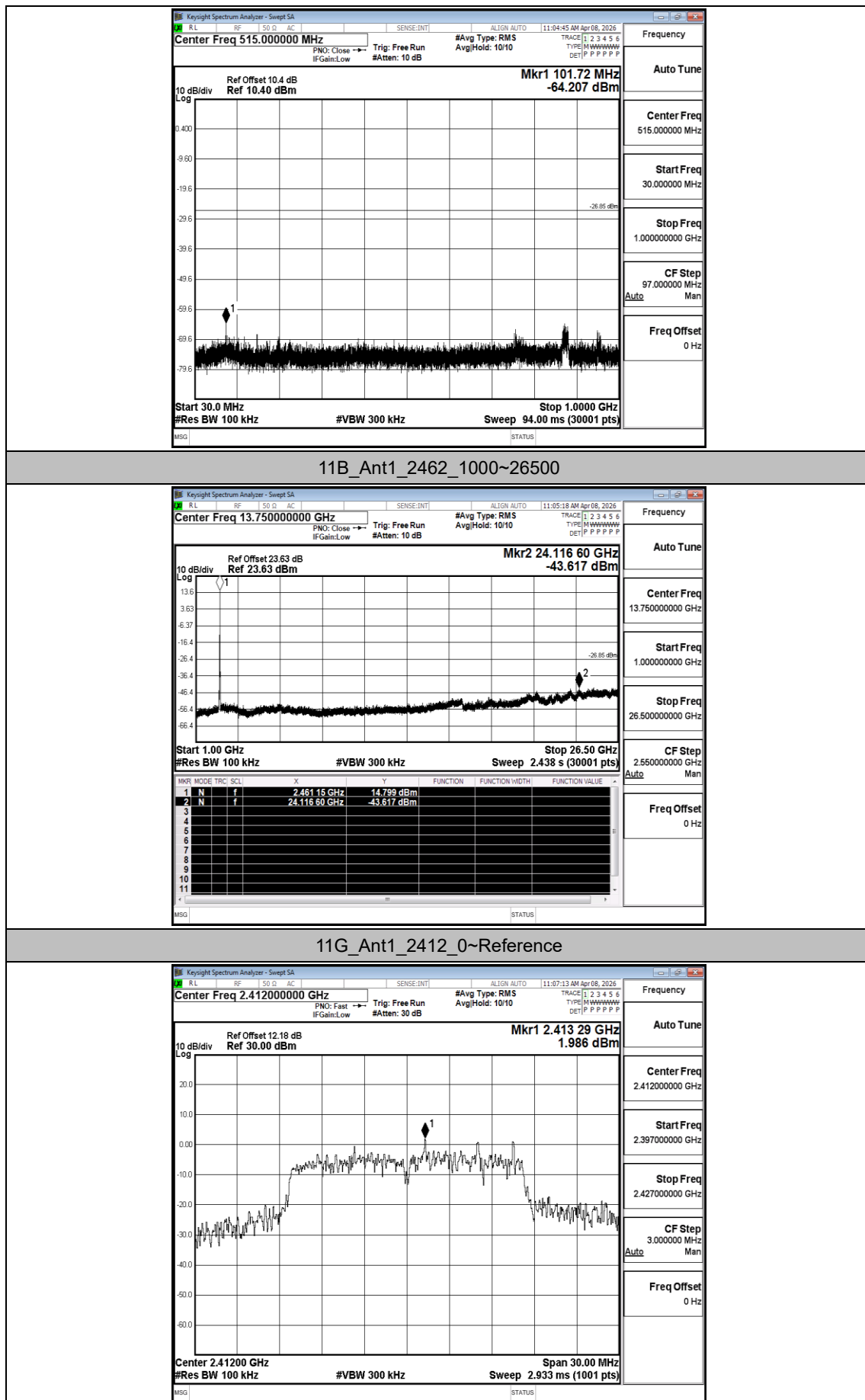
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11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

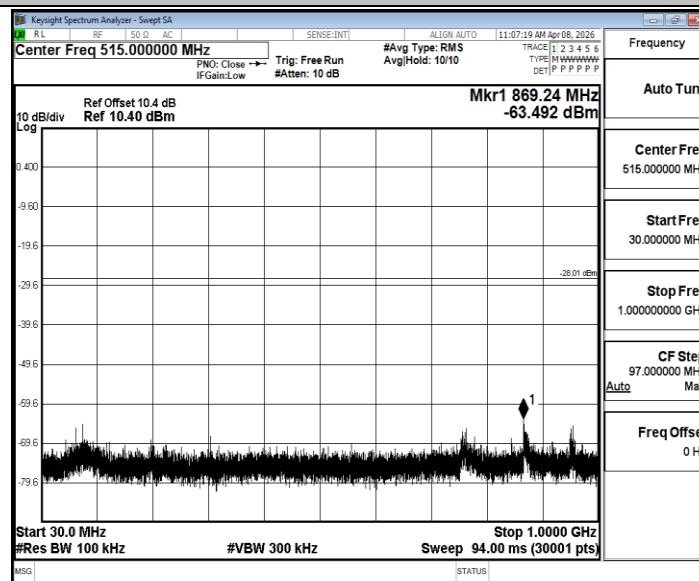


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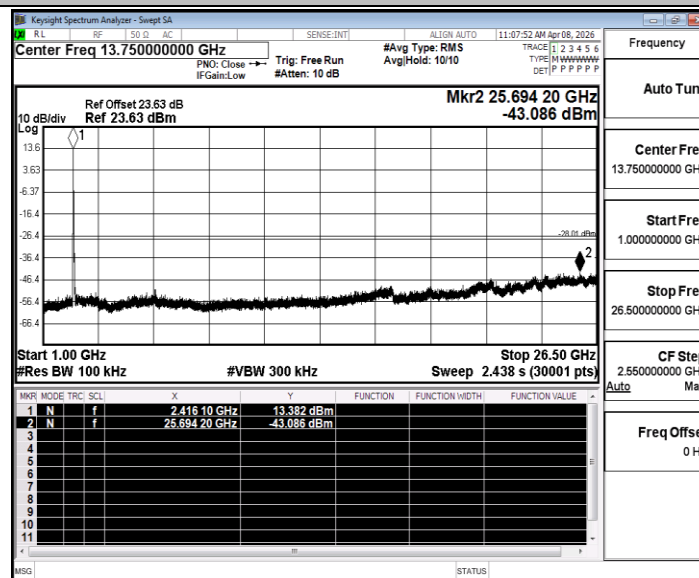
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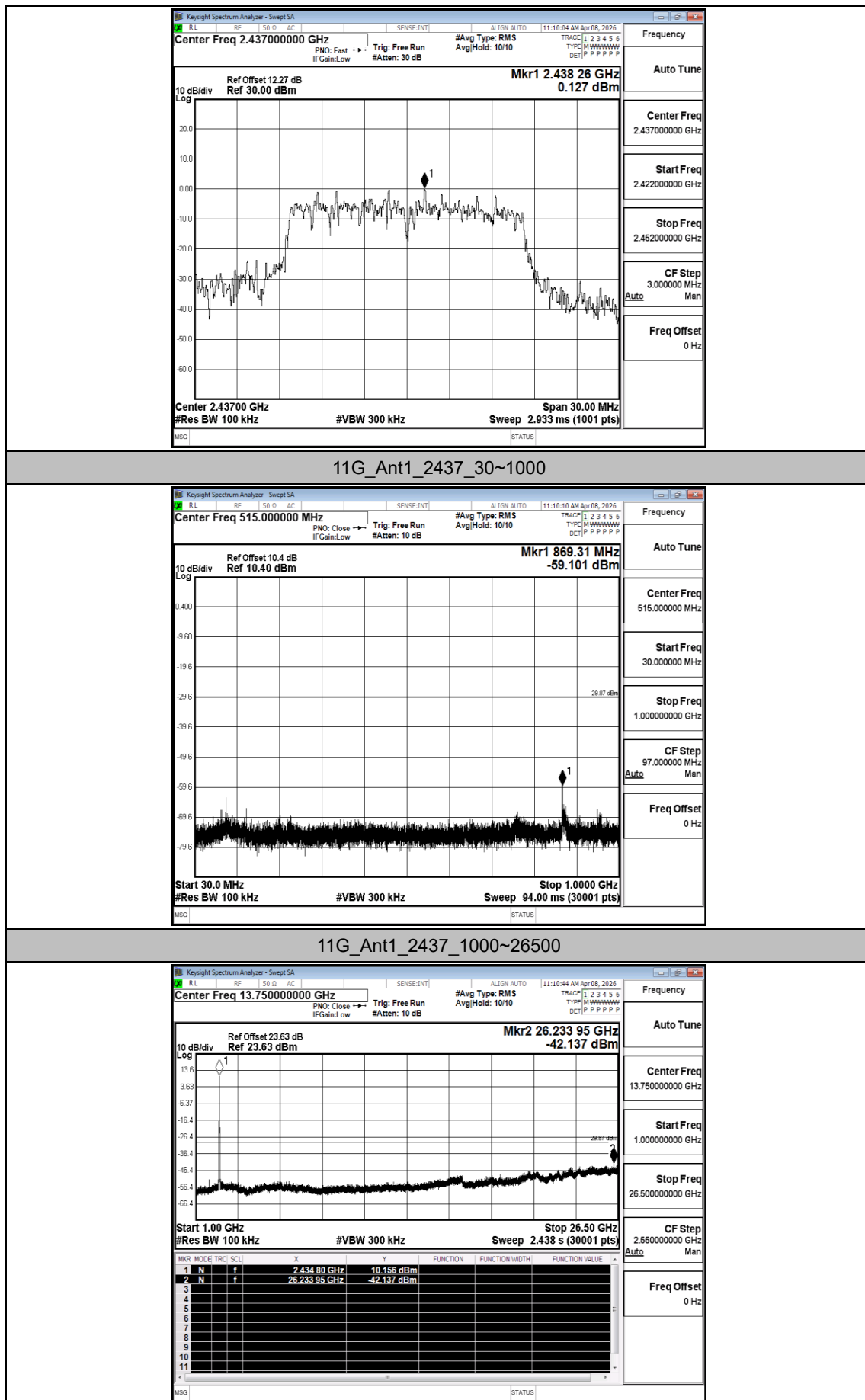
11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

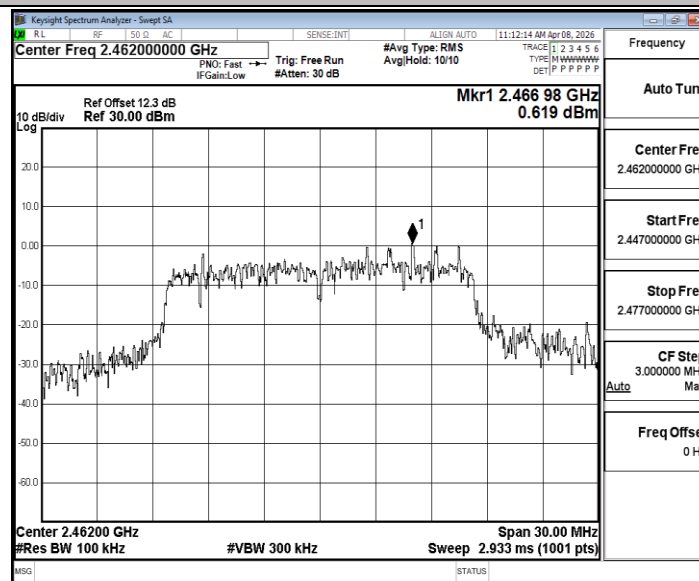


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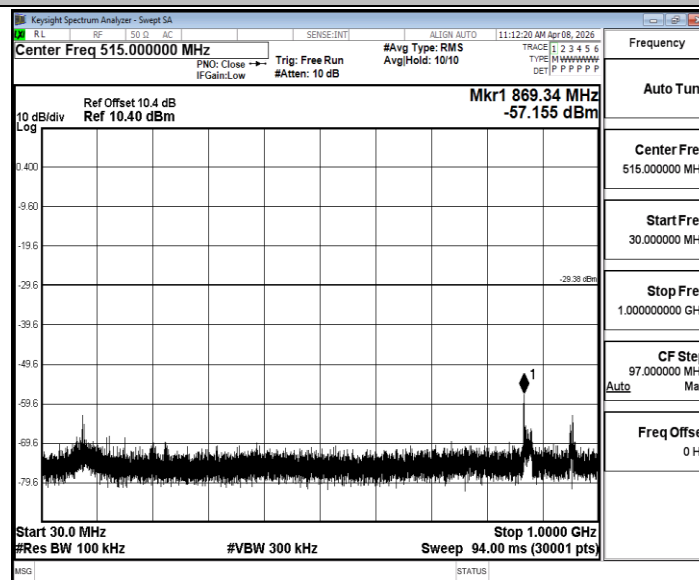
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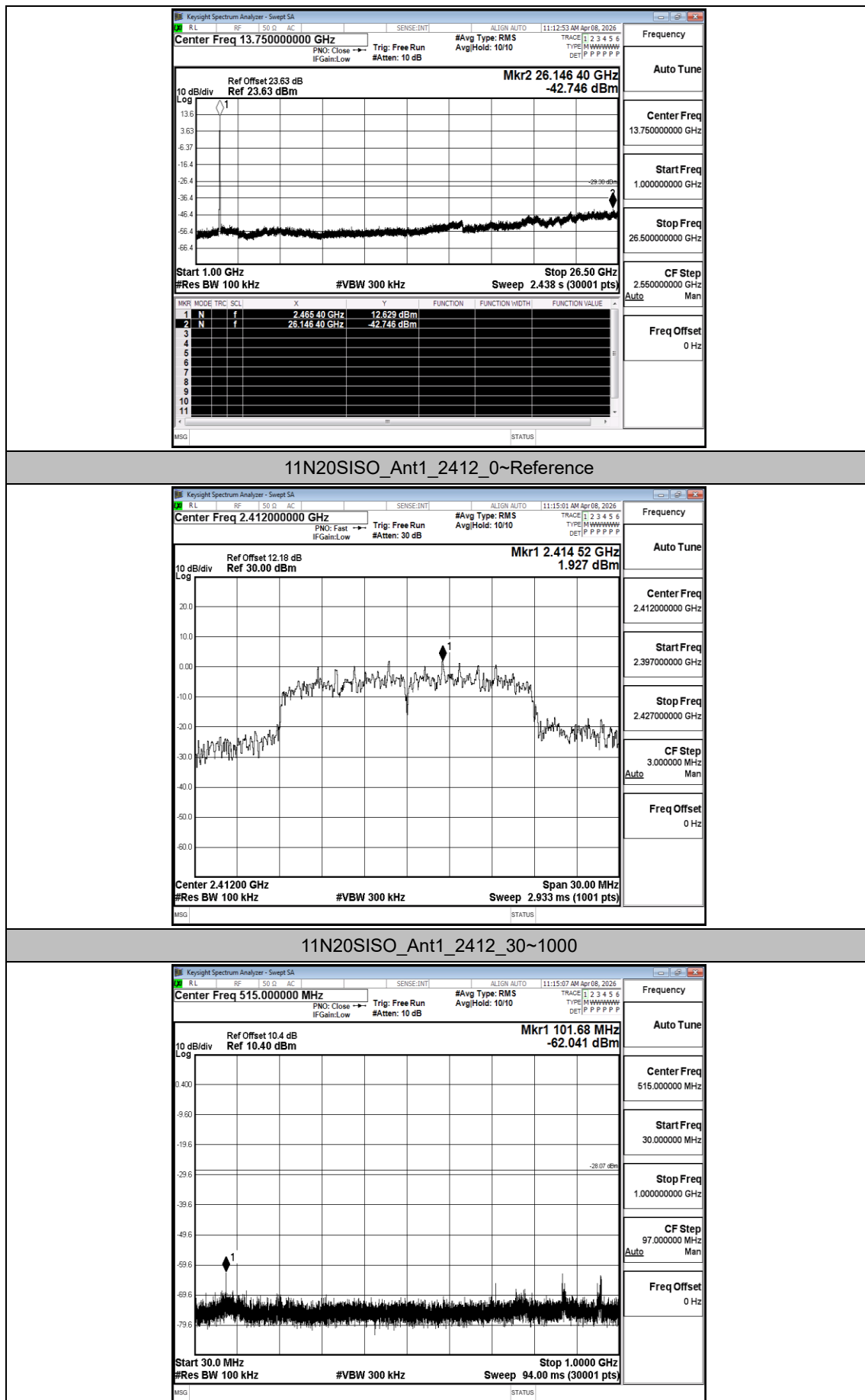
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



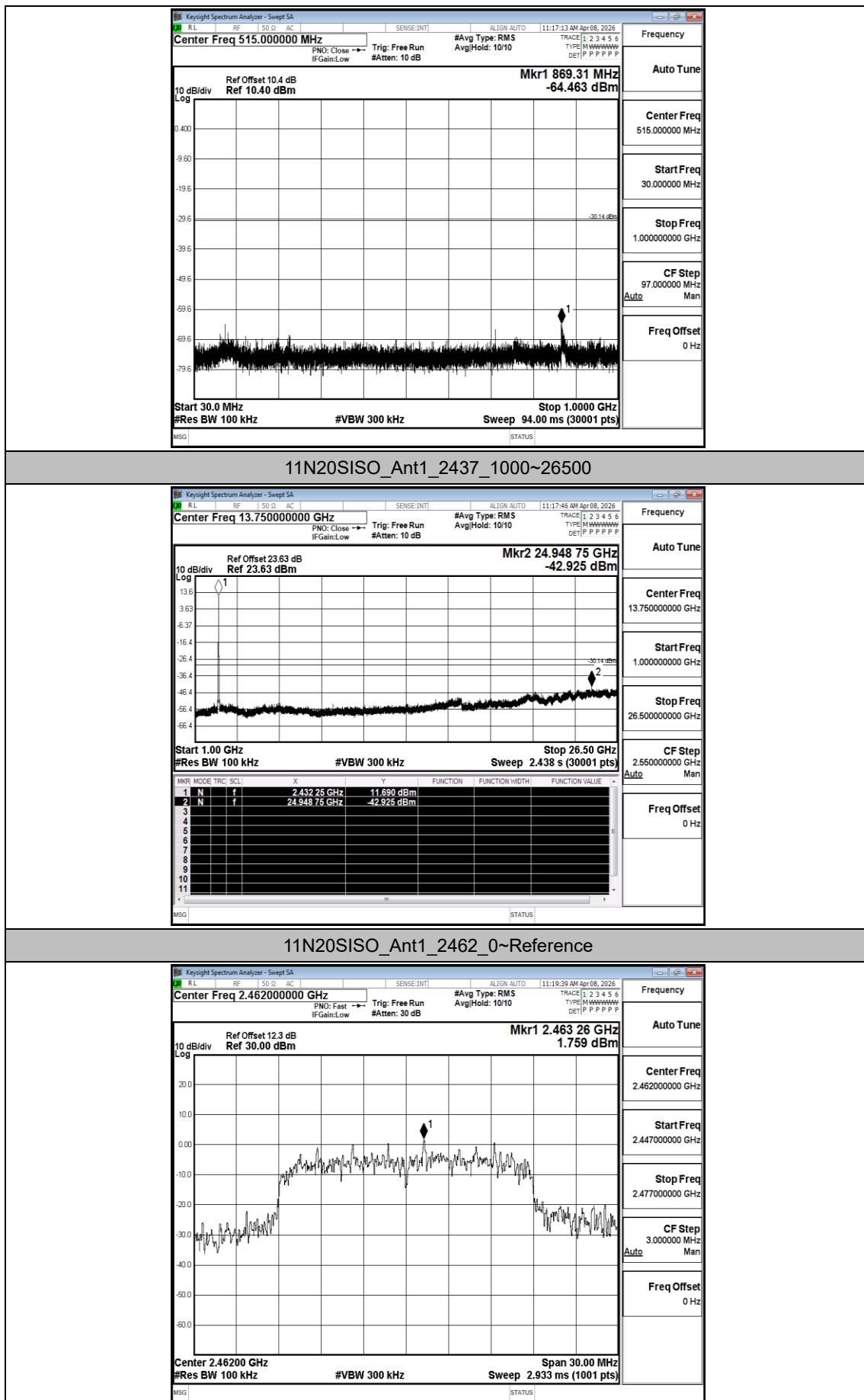
11G_Ant1_2462_1000~26500



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