

Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Tablet

Test Model: i101AC

Environmental Conditions

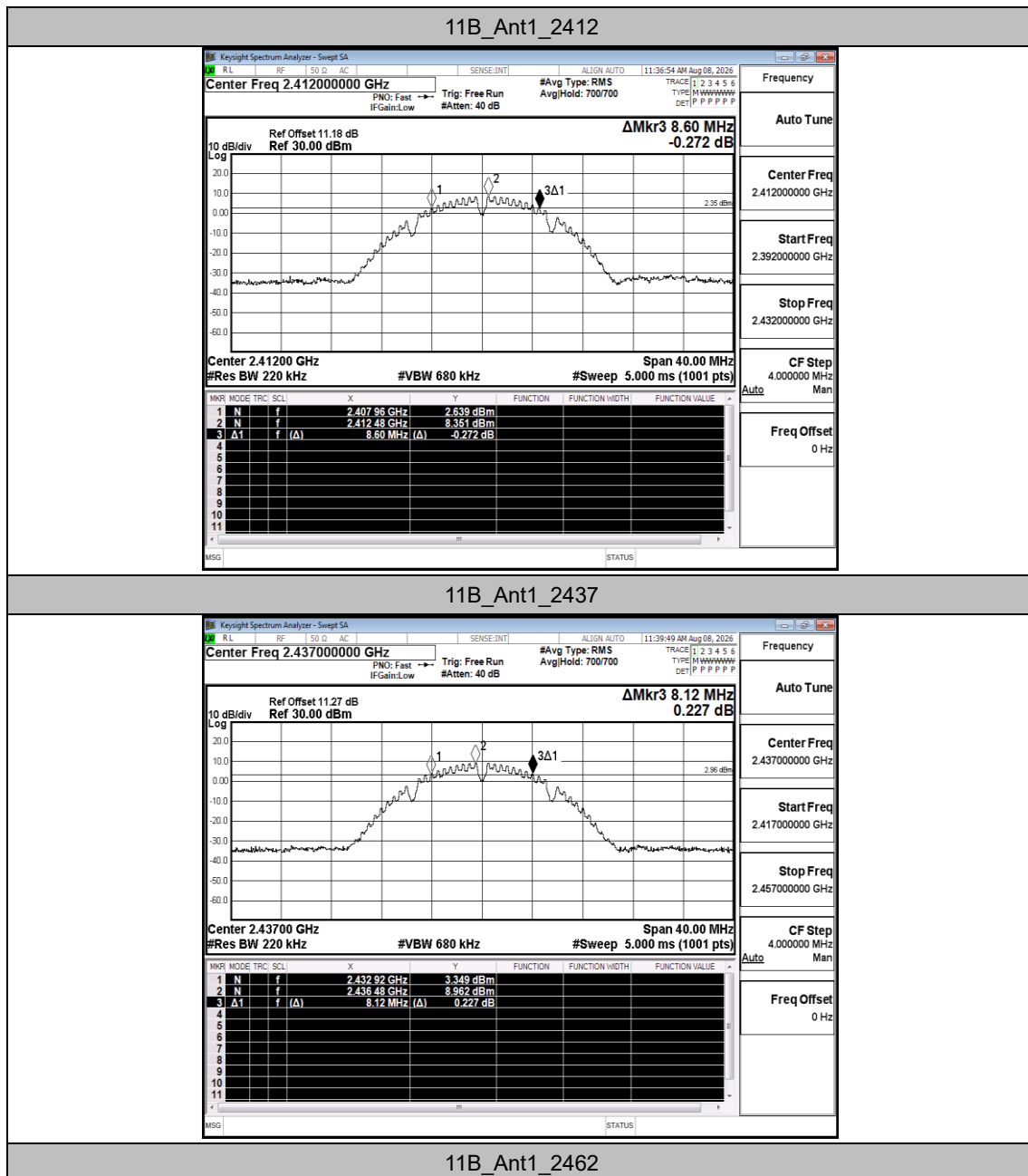
Temperature:	24.6° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

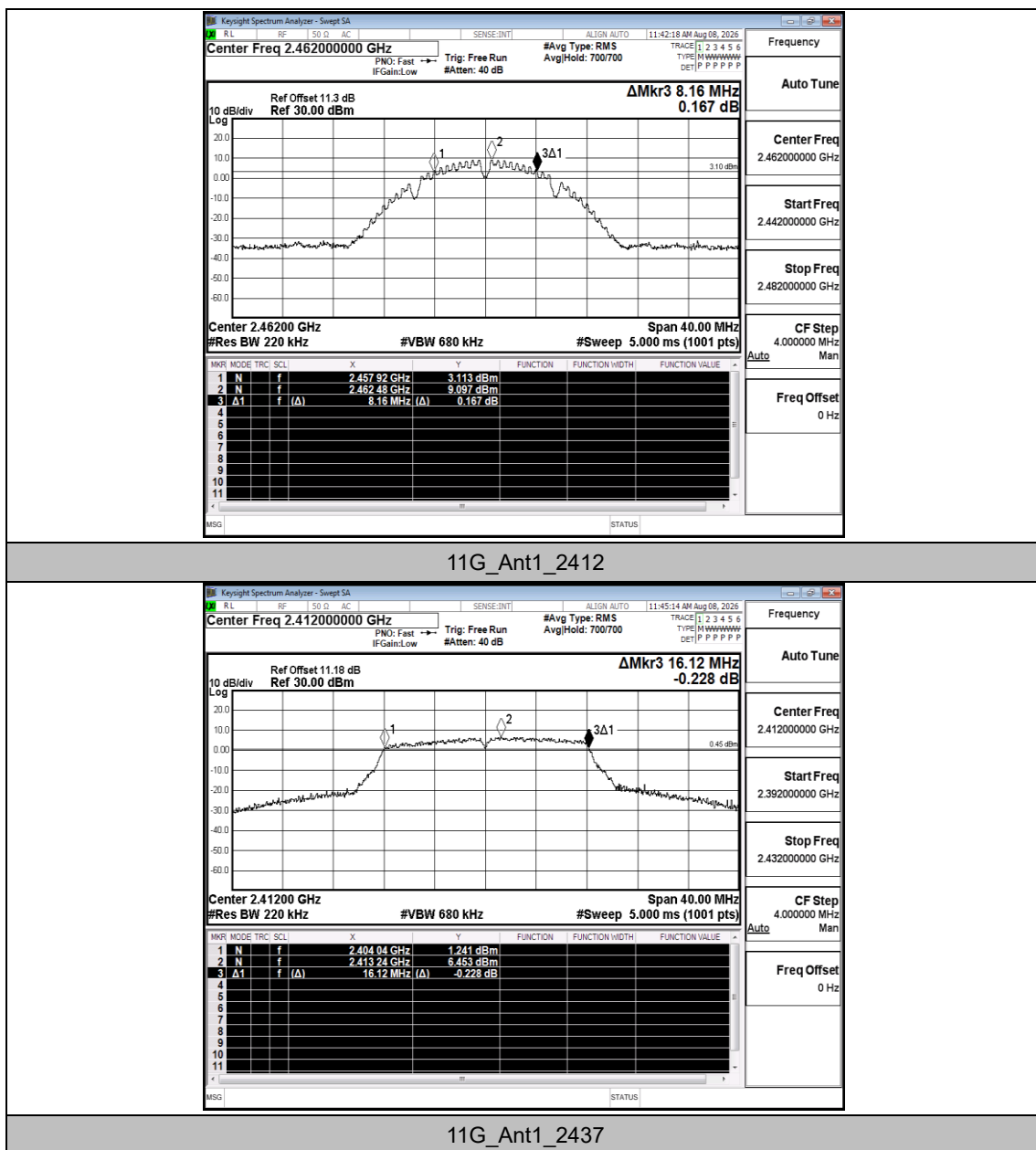
C.1 DTS Bandwidth

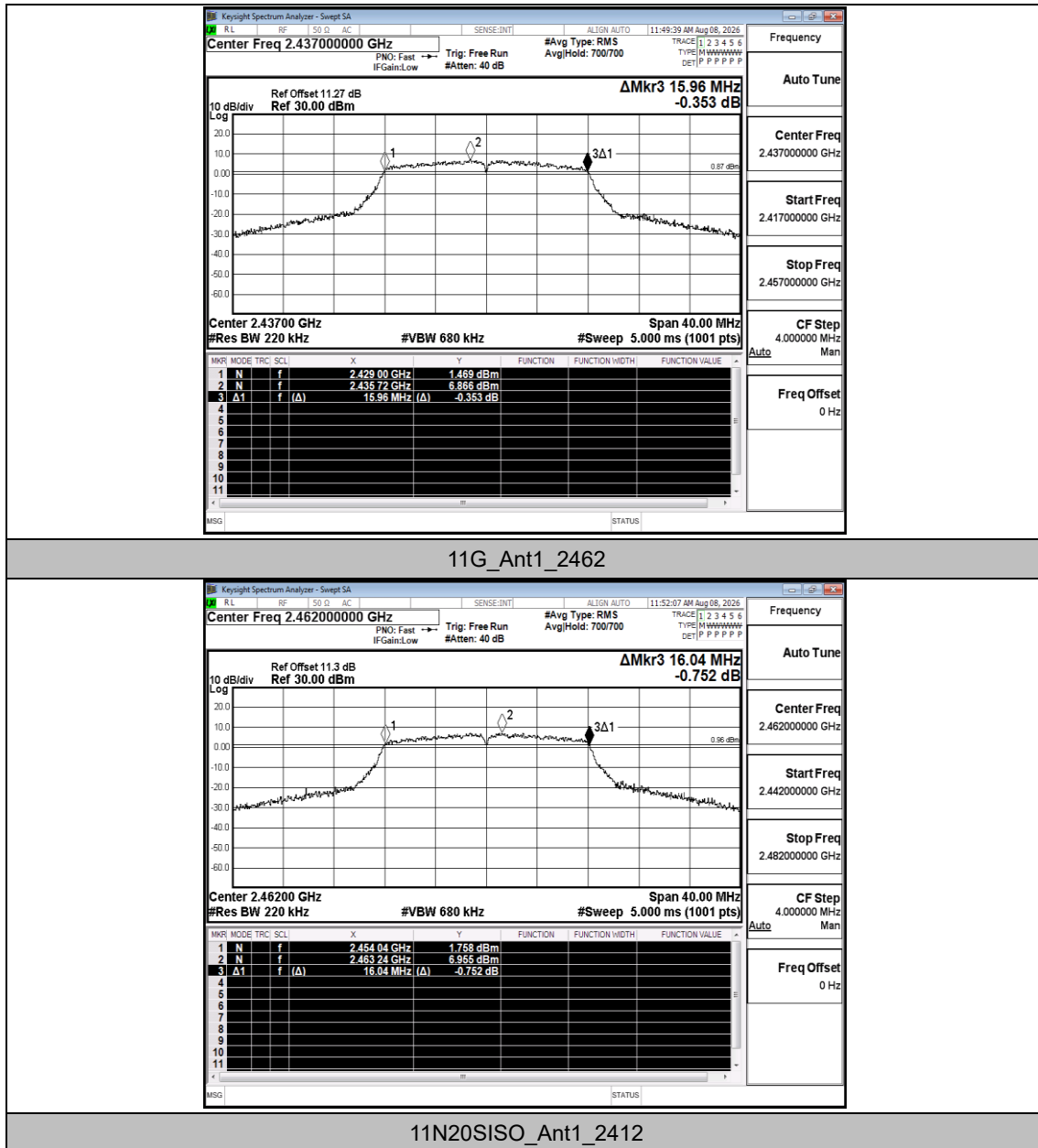
Test Result

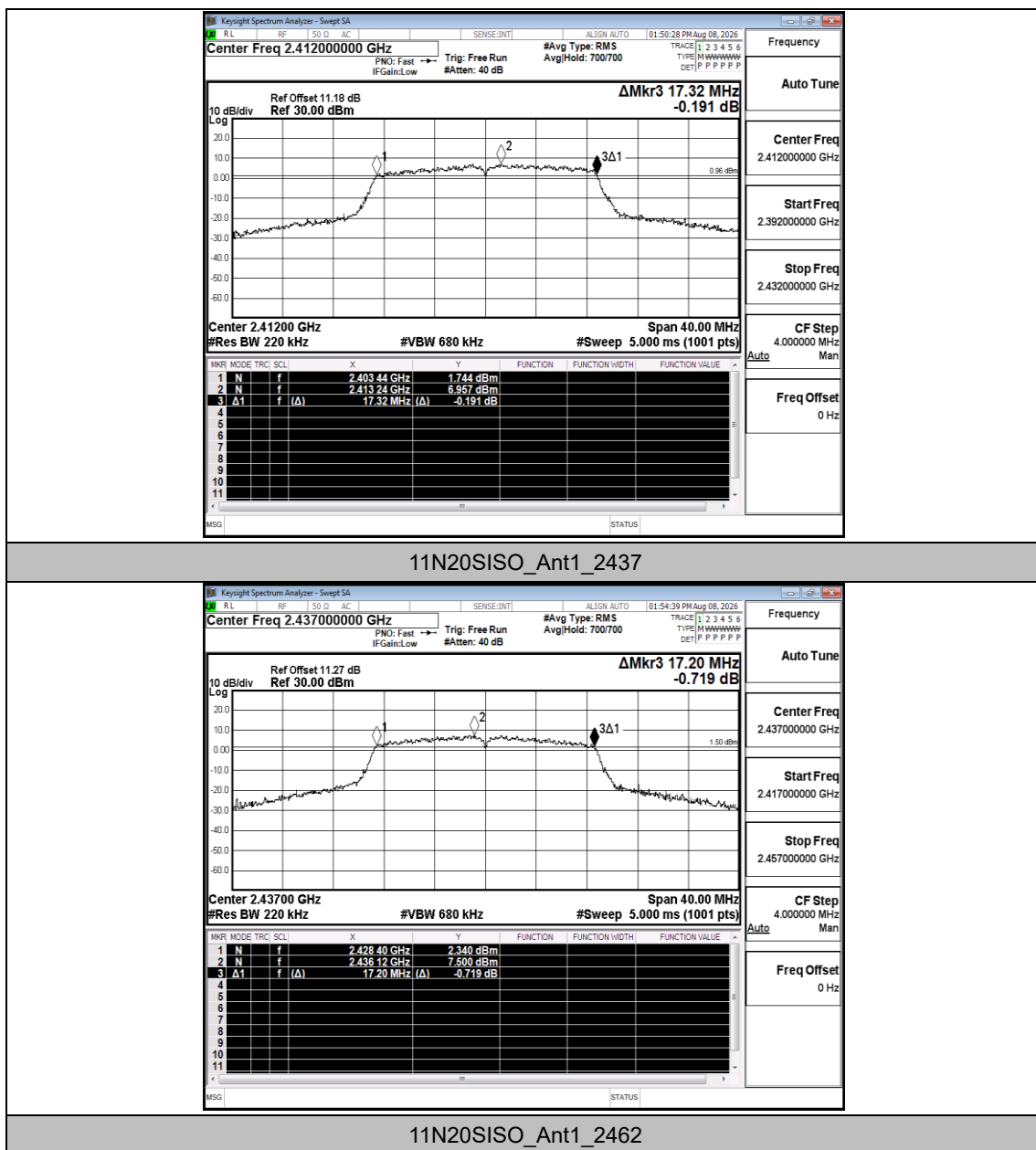
TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.600	2407.960	2416.560	0.5	PASS
		2437	8.120	2432.920	2441.040	0.5	PASS
		2462	8.160	2457.920	2466.080	0.5	PASS
11G	Ant1	2412	16.120	2404.040	2420.160	0.5	PASS
		2437	15.960	2429.000	2444.960	0.5	PASS
		2462	16.040	2454.040	2470.080	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.440	2420.760	0.5	PASS
		2437	17.200	2428.400	2445.600	0.5	PASS
		2462	17.200	2453.440	2470.640	0.5	PASS
11N40SISO	Ant1	2422	30.320	2409.600	2439.920	0.5	PASS
		2437	32.960	2421.400	2454.360	0.5	PASS
		2452	36.160	2433.920	2470.080	0.5	PASS
11AX20SISO	Ant1	2412	17.320	2403.440	2420.760	0.5	PASS
		2437	17.200	2428.400	2445.600	0.5	PASS
		2462	17.160	2453.440	2470.600	0.5	PASS
11AX40SISO	Ant1	2422	30.320	2409.760	2440.080	0.5	PASS
		2437	33.600	2420.920	2454.520	0.5	PASS
		2452	36.320	2433.840	2470.160	0.5	PASS

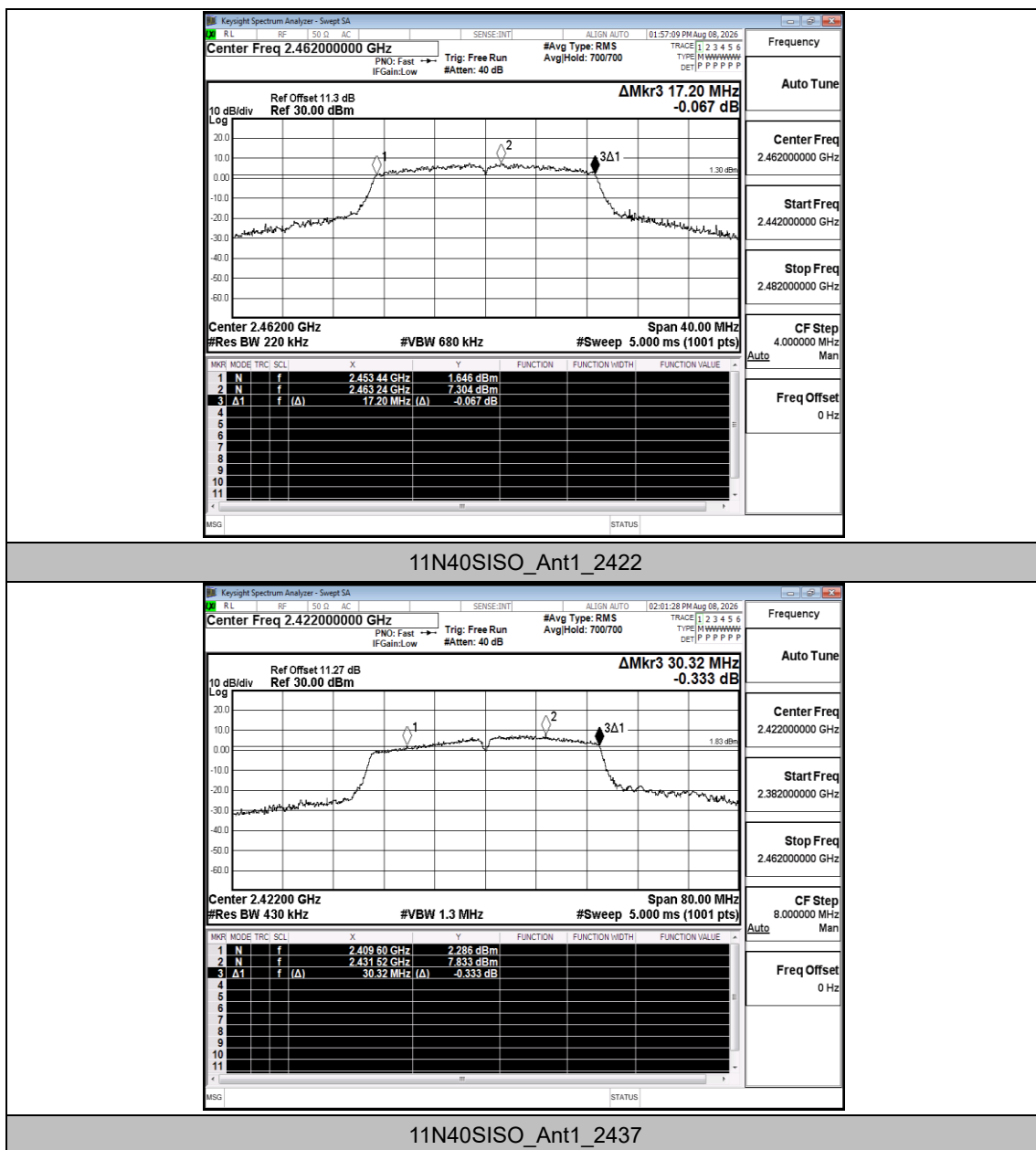
Test Graphs

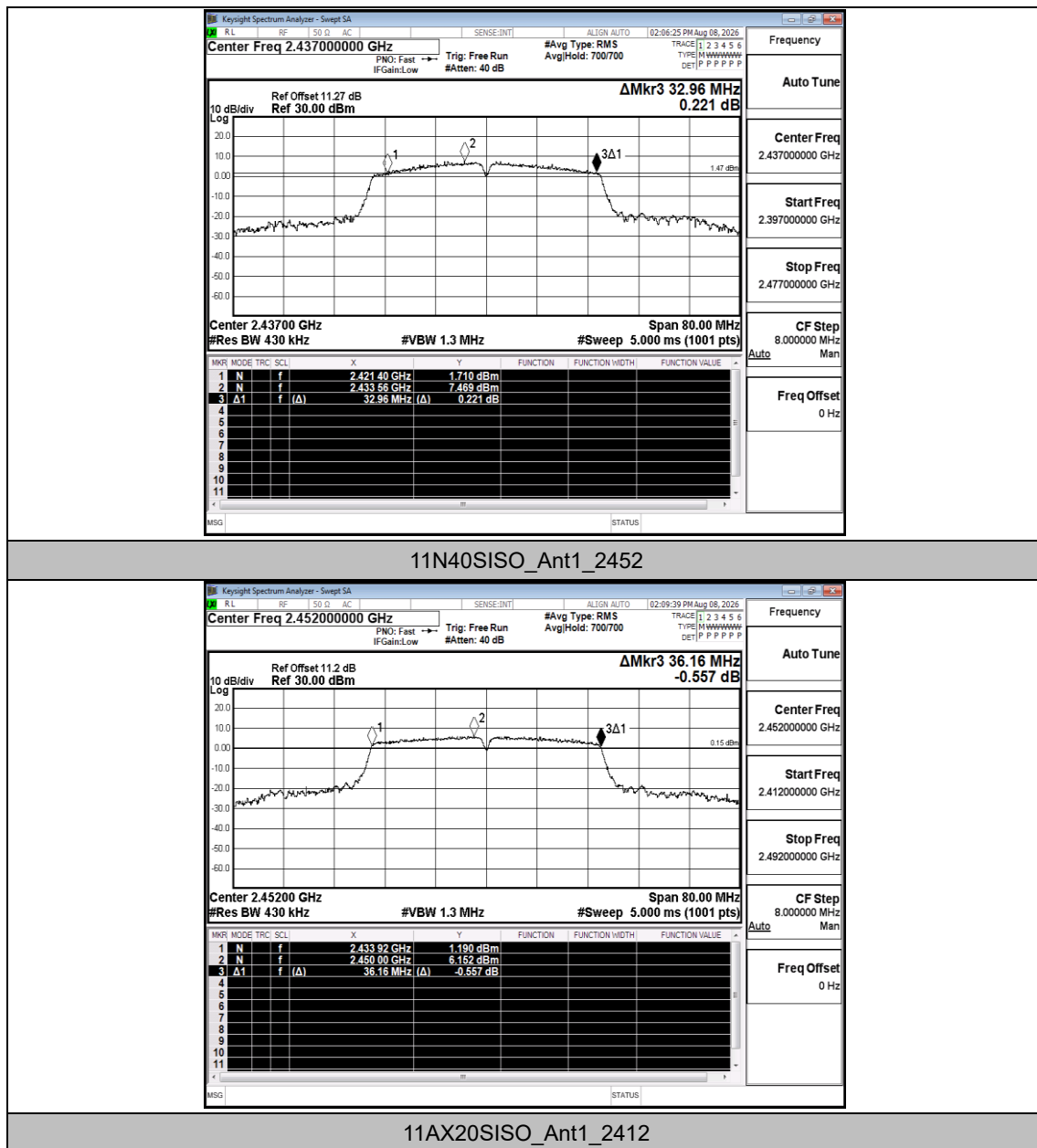


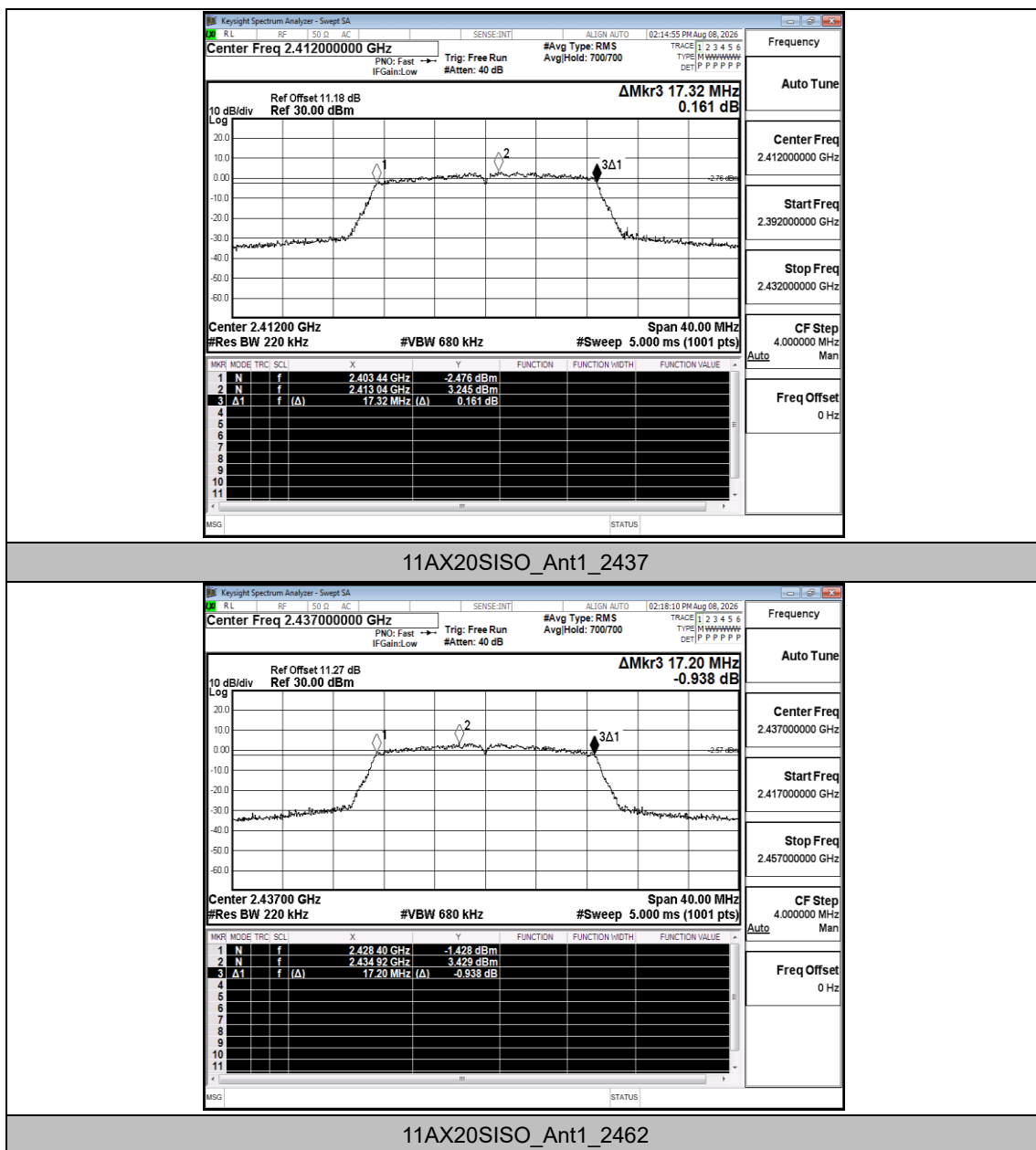


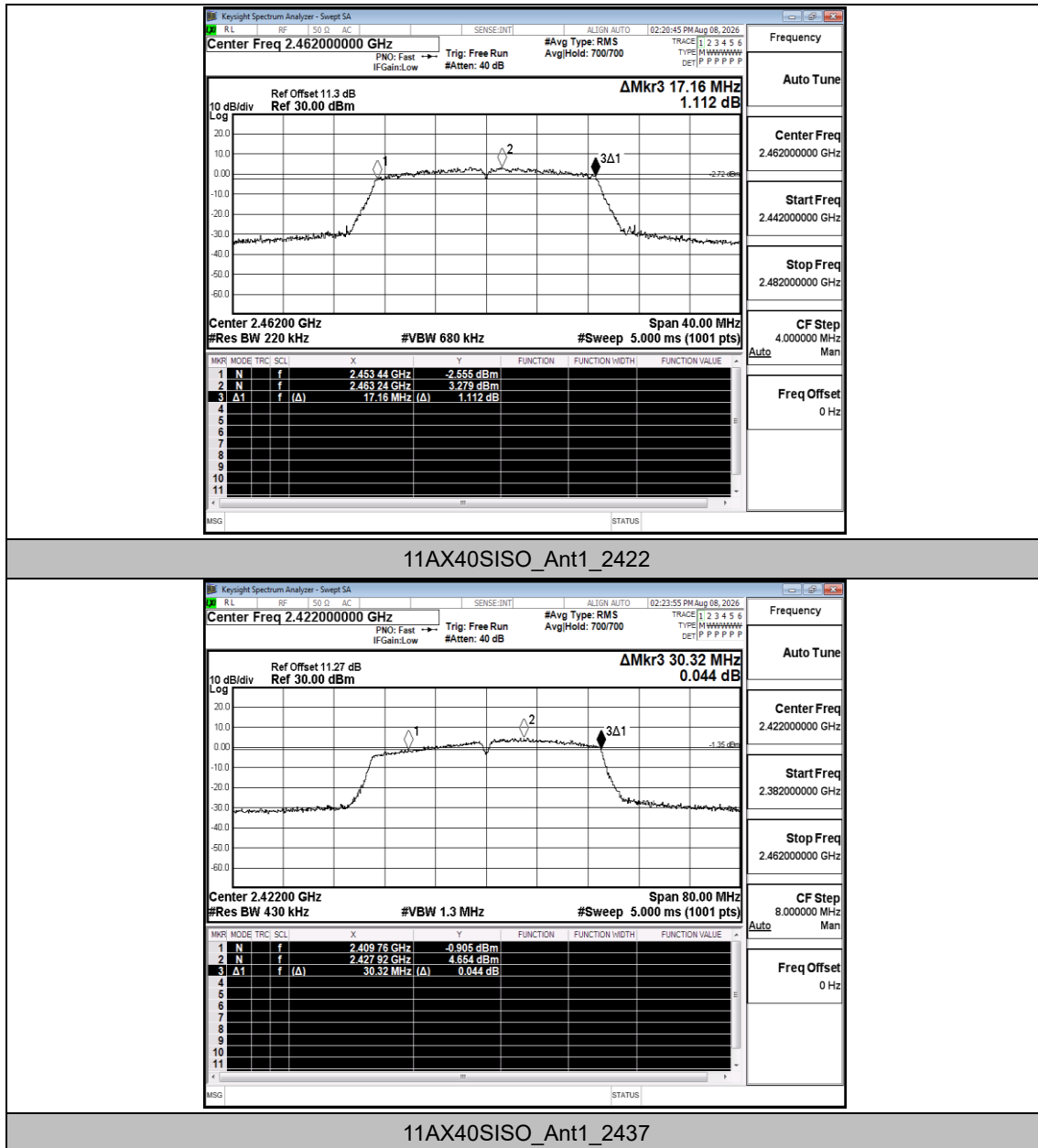


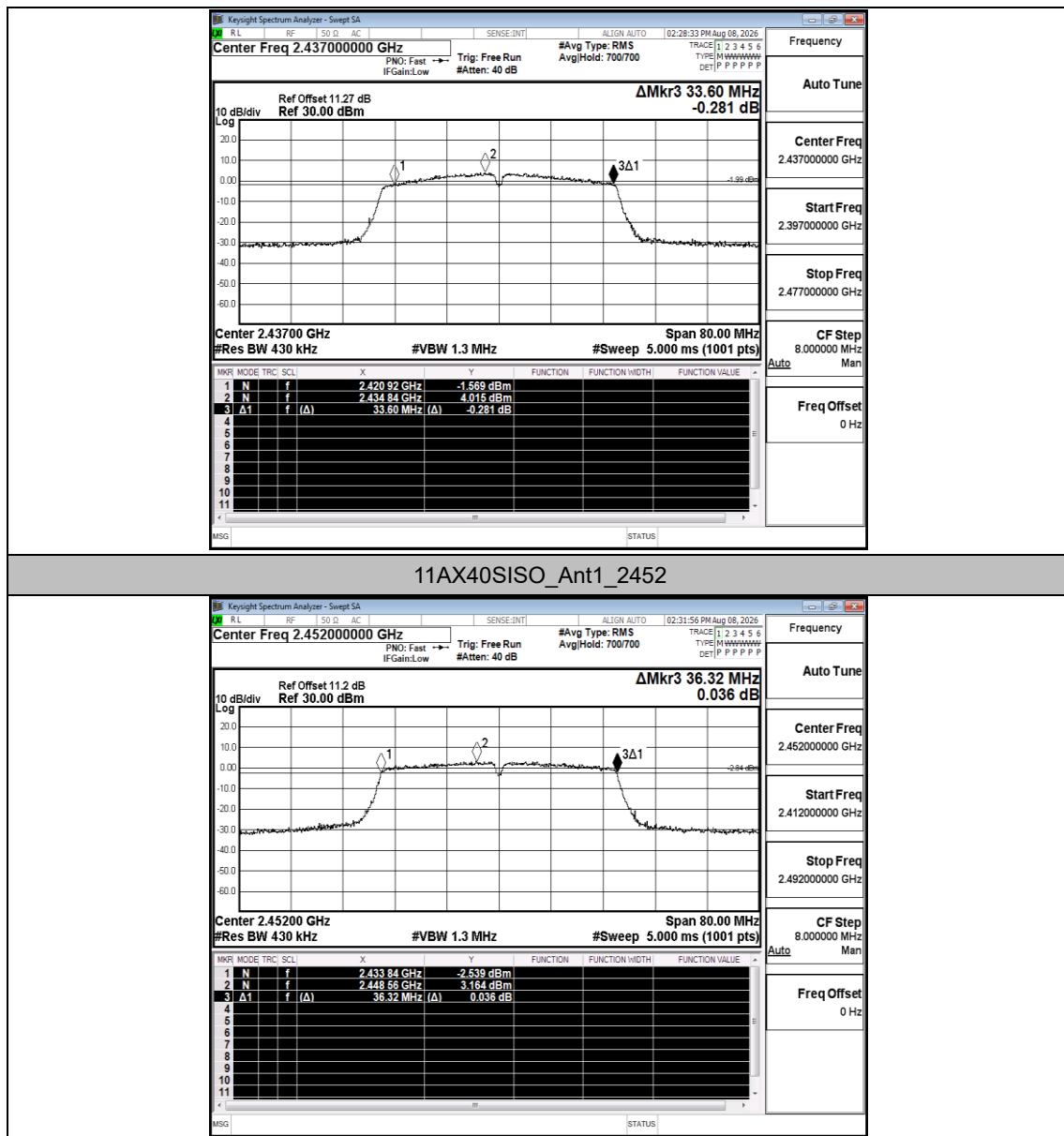












C.2 Maximum conducted output power

Test Result Average

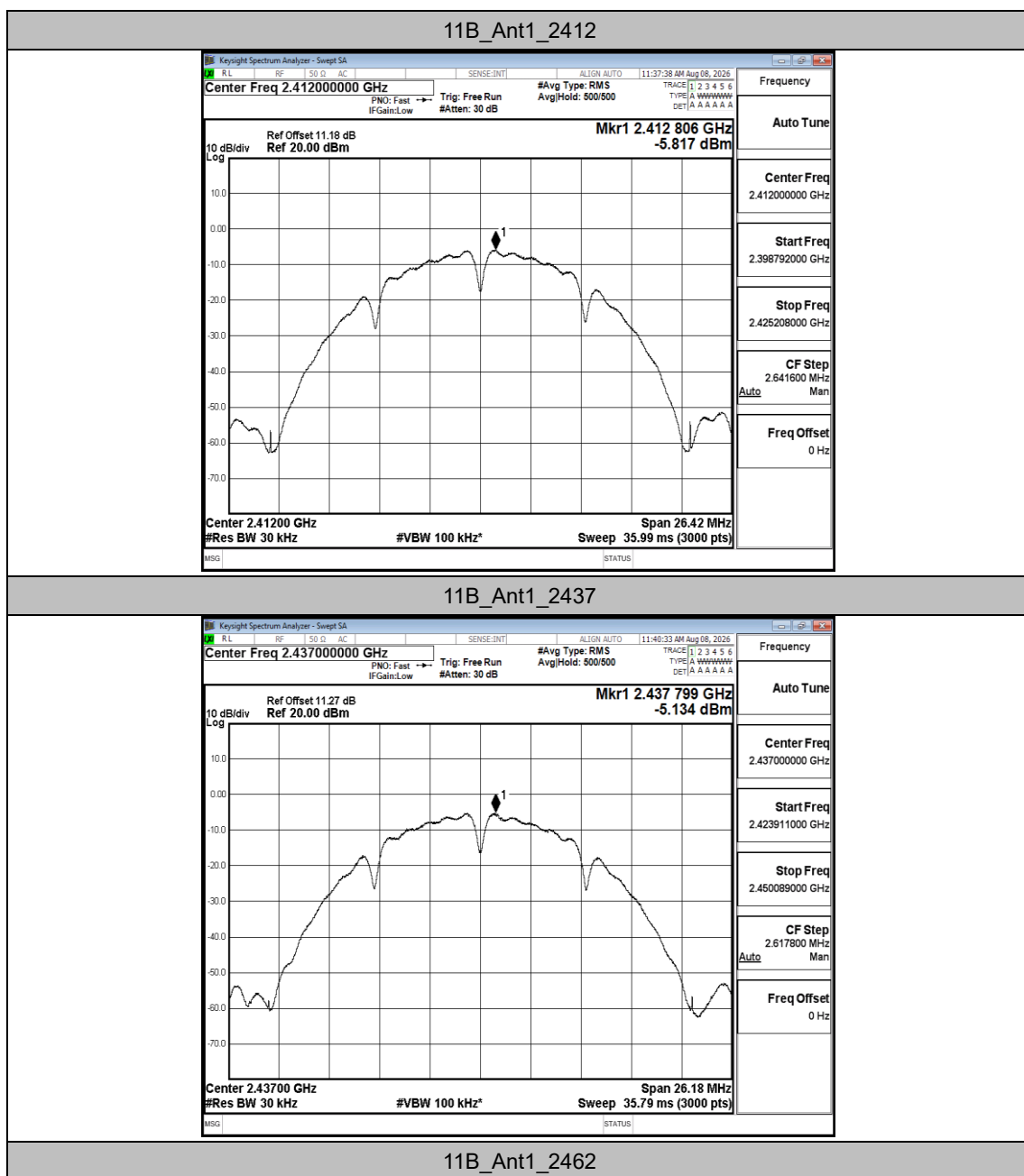
TestMode	Antenna	Frequency [MHz]	Measured Power	DC Factor [dB]	AV Power [dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.87	0.02	15.89	≤30.00	PASS
		2437	16.49	0.02	16.51	≤30.00	PASS
		2462	16.47	0.02	16.49	≤30.00	PASS
11G	Ant1	2412	16.13	0.18	16.31	≤30.00	PASS
		2437	16.39	0.18	16.57	≤30.00	PASS
		2462	16.10	0.18	16.28	≤30.00	PASS
11N20SISO	Ant1	2412	16.40	0.20	16.60	≤30.00	PASS
		2437	16.51	0.20	16.71	≤30.00	PASS
		2462	16.22	0.20	16.42	≤30.00	PASS
11N40SISO	Ant1	2422	15.60	0.39	15.99	≤30.00	PASS
		2437	15.76	0.39	16.15	≤30.00	PASS
		2452	15.55	0.39	15.94	≤30.00	PASS
11AX20SISO	Ant1	2412	12.36	0.20	12.56	≤30.00	PASS
		2437	12.64	0.20	12.84	≤30.00	PASS
		2462	12.26	0.20	12.46	≤30.00	PASS
11AX40SISO	Ant1	2422	12.86	0.39	13.25	≤30.00	PASS
		2437	12.95	0.39	13.34	≤30.00	PASS
		2452	12.58	0.39	12.97	≤30.00	PASS

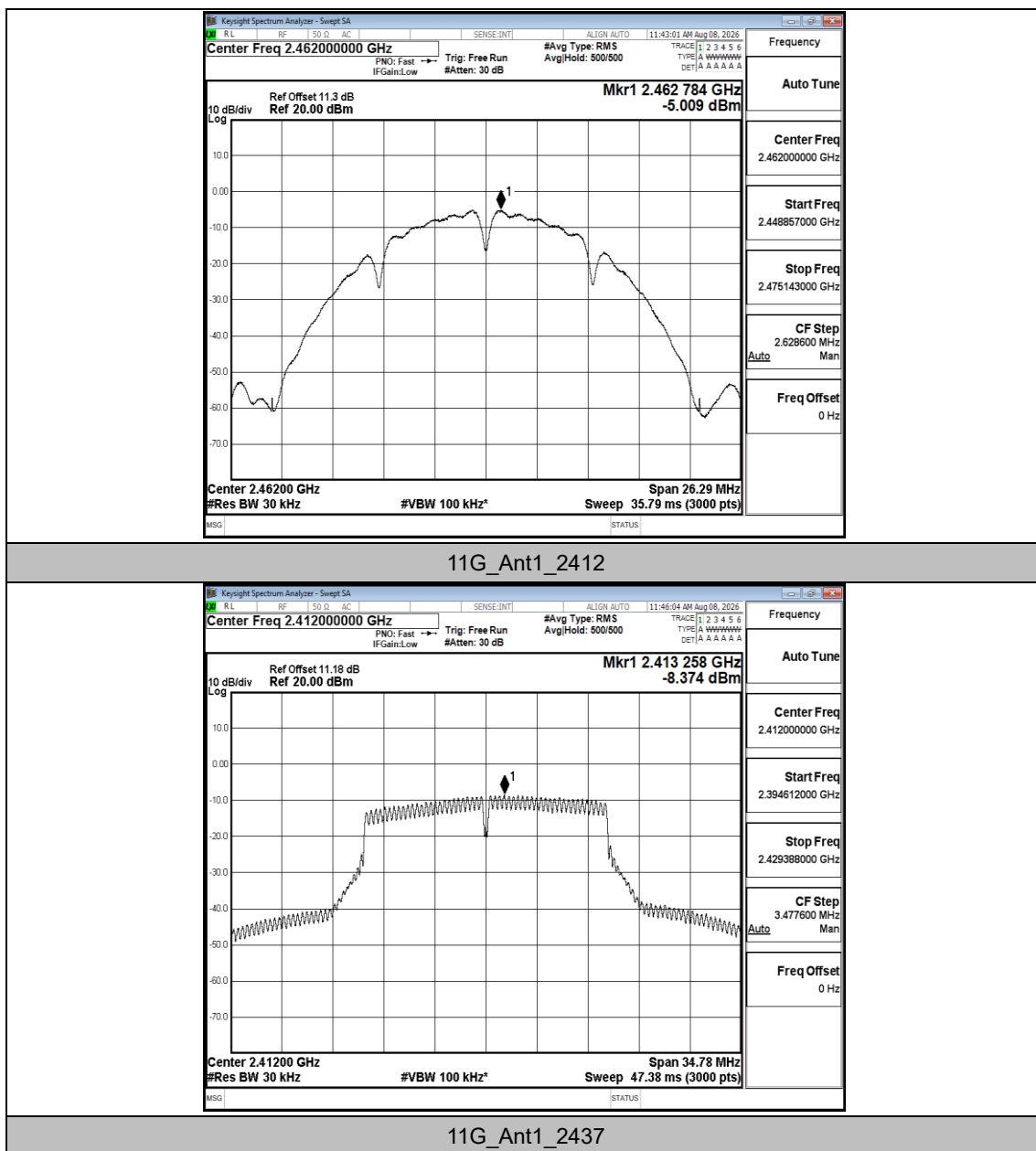
C.3 Maximum power spectral density

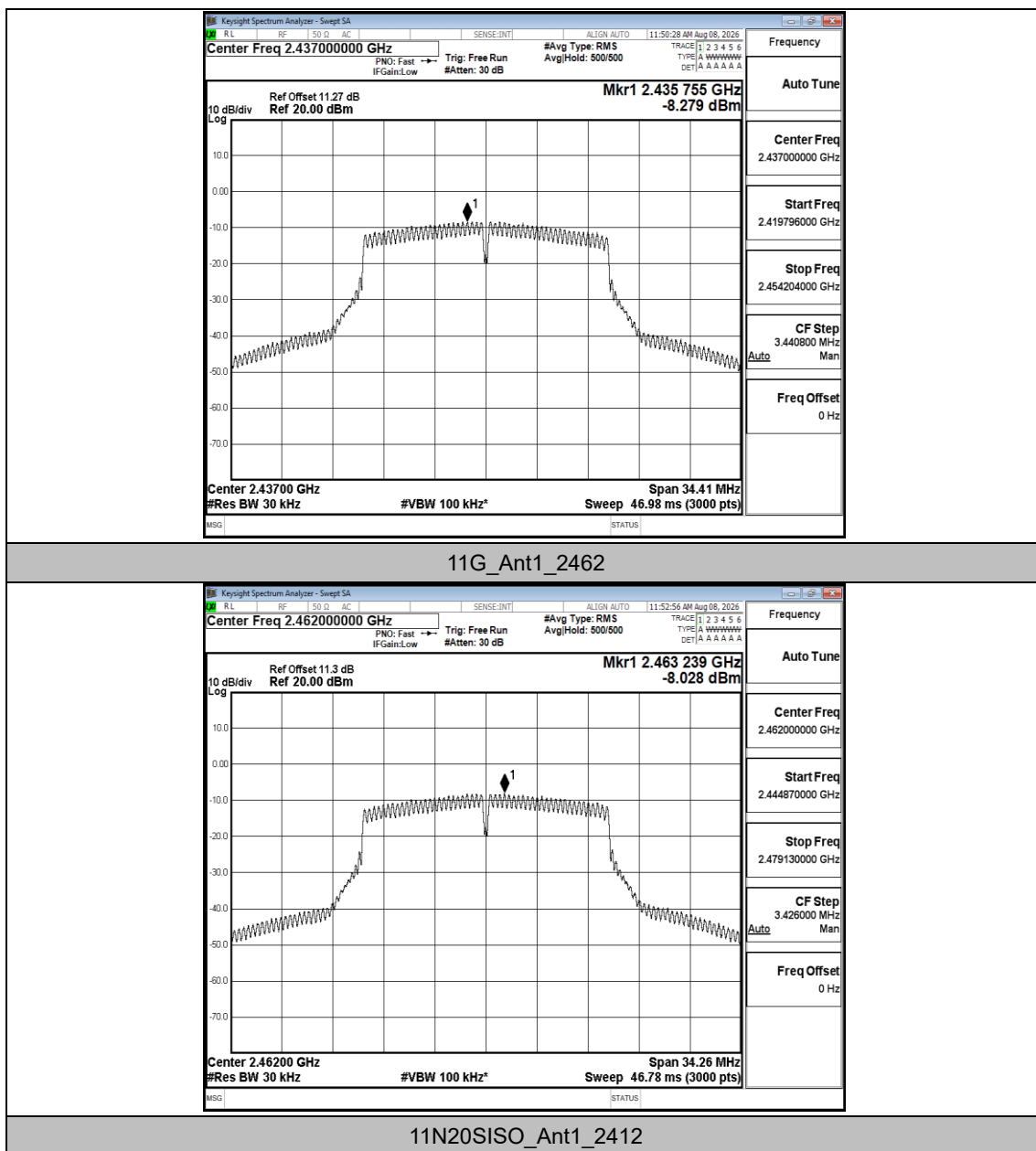
Test Result

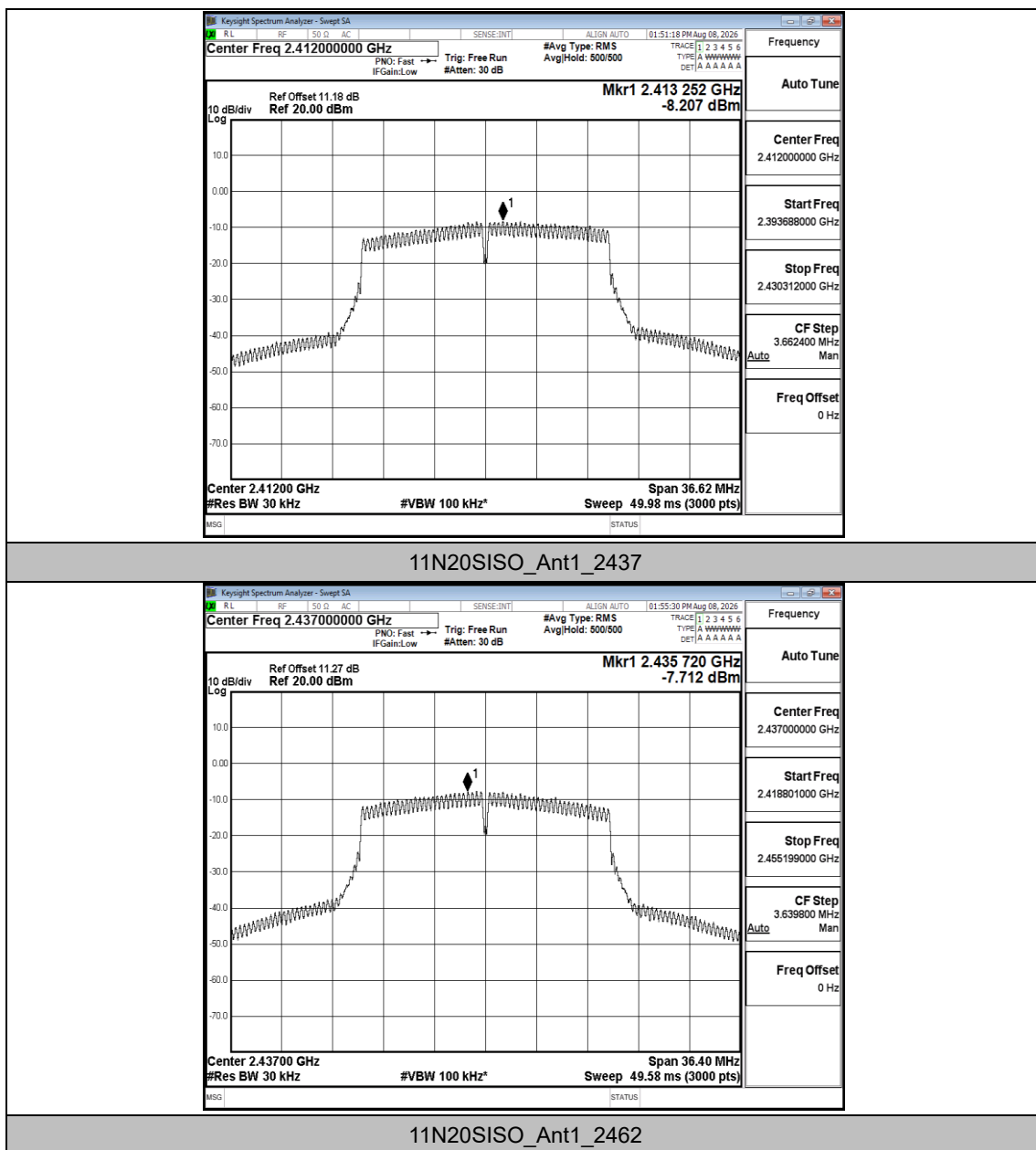
TestMode	Antenna	Frequency [MHz]	Measured PSD [dBm/30kHz]	DC Factor [dB]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-5.82	0.02	-5.80	≤8.00	2412	PASS
		2437	-5.13	0.02	-5.11	≤8.00	2437	PASS
		2462	-5.01	0.02	-4.99	≤8.00	2462	PASS
11G	Ant1	2412	-8.37	0.18	-8.19	≤8.00	2412	PASS
		2437	-8.28	0.18	-8.10	≤8.00	2437	PASS
		2462	-8.03	0.18	-7.85	≤8.00	2462	PASS
11N20SISO	Ant1	2412	-8.21	0.20	-8.01	≤8.00	2412	PASS
		2437	-7.71	0.20	-7.51	≤8.00	2437	PASS
		2462	-7.76	0.20	-7.56	≤8.00	2462	PASS
11N40SISO	Ant1	2422	-10.79	0.39	-10.40	≤8.00	2422	PASS
		2437	-10.5	0.39	-10.11	≤8.00	2437	PASS
		2452	-11.54	0.39	-11.15	≤8.00	2452	PASS
11AX20SISO	Ant1	2412	-12.17	0.20	-11.97	≤8.00	2412	PASS
		2437	-11.78	0.20	-11.58	≤8.00	2437	PASS
		2462	-11.88	0.20	-11.68	≤8.00	2462	PASS
11AX40SISO	Ant1	2422	-13.87	0.39	-13.48	≤8.00	2422	PASS
		2437	-14.2	0.39	-13.81	≤8.00	2437	PASS
		2452	-15.17	0.39	-14.78	≤8.00	2452	PASS

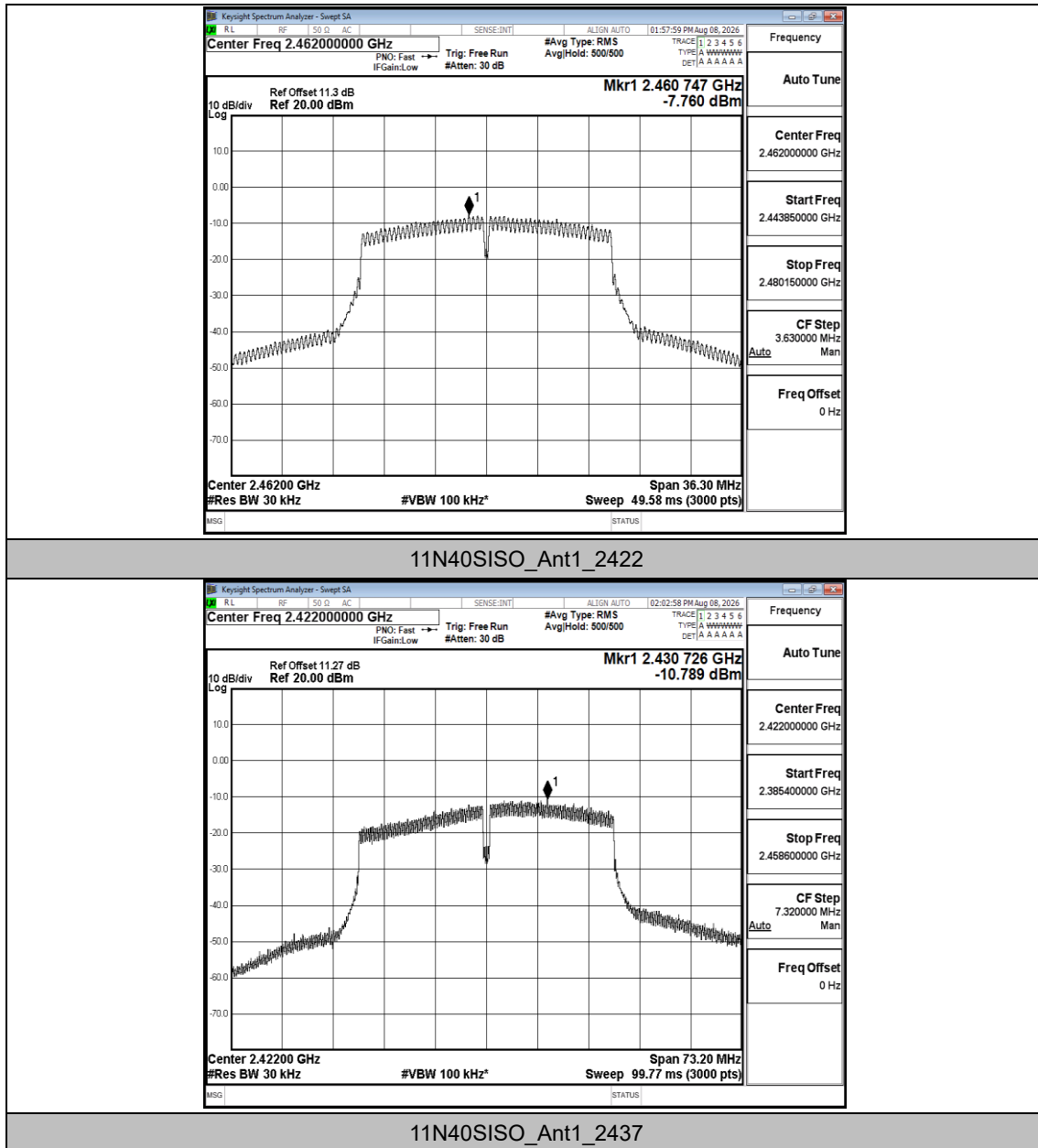
Test Graphs

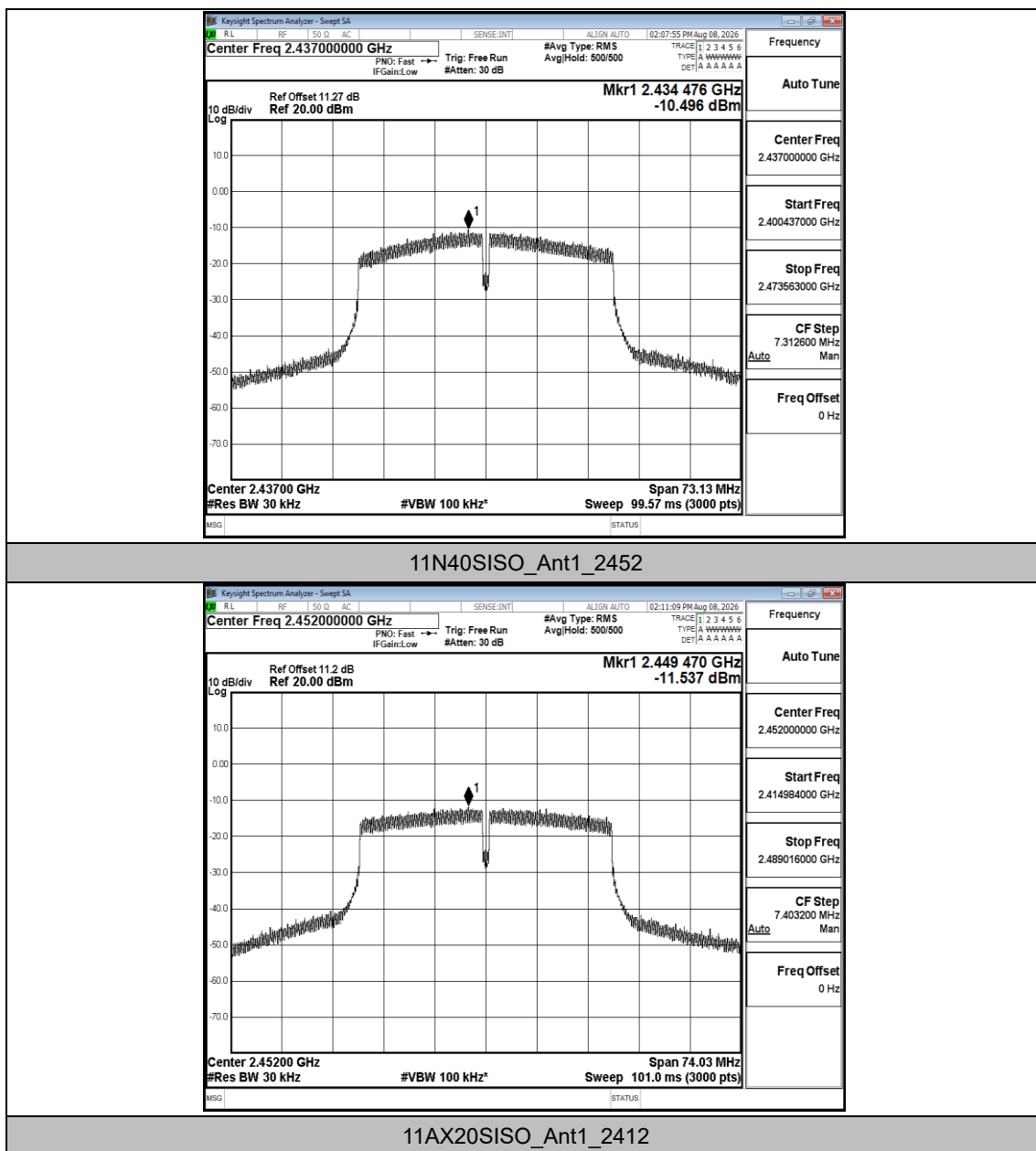


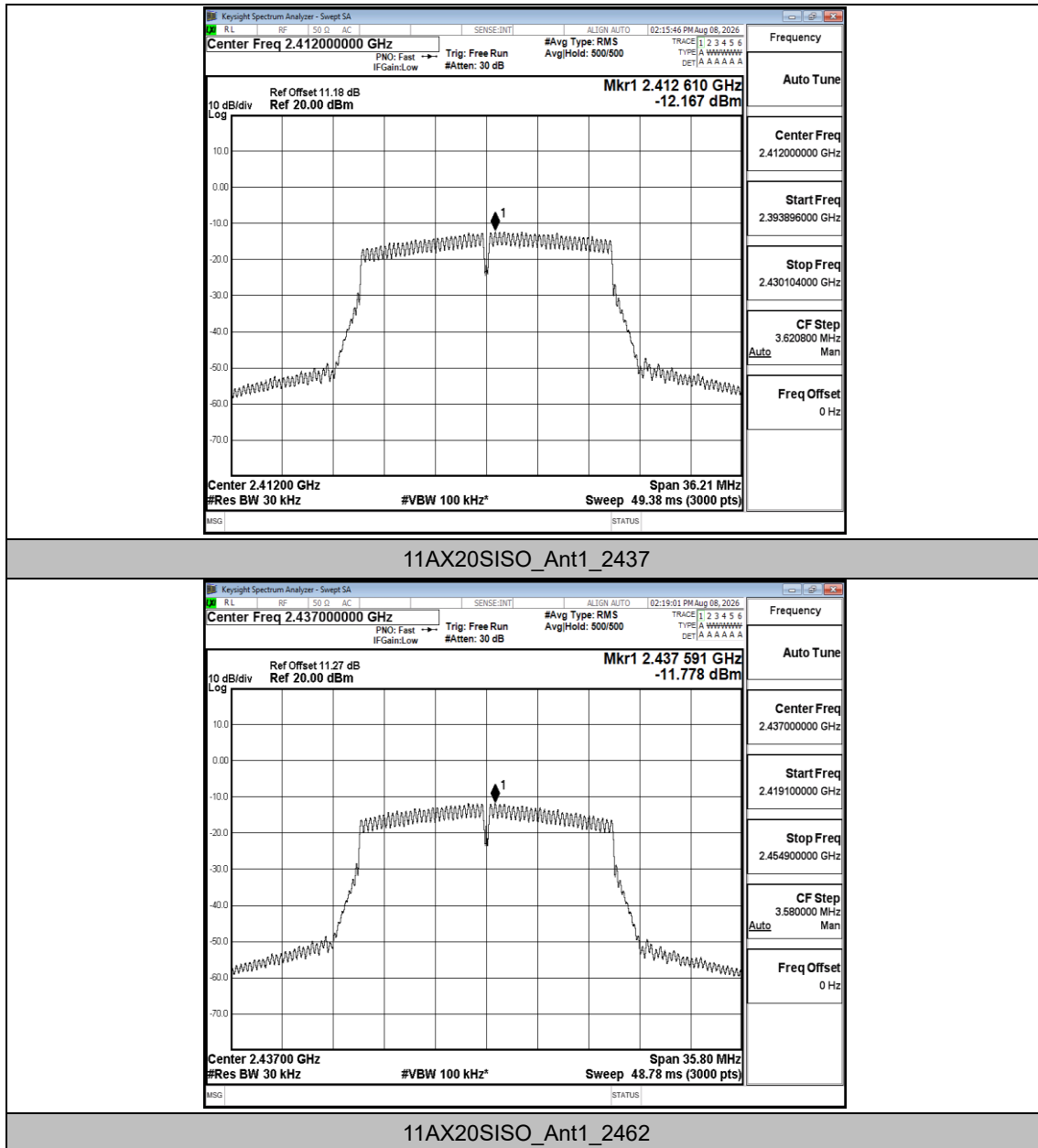


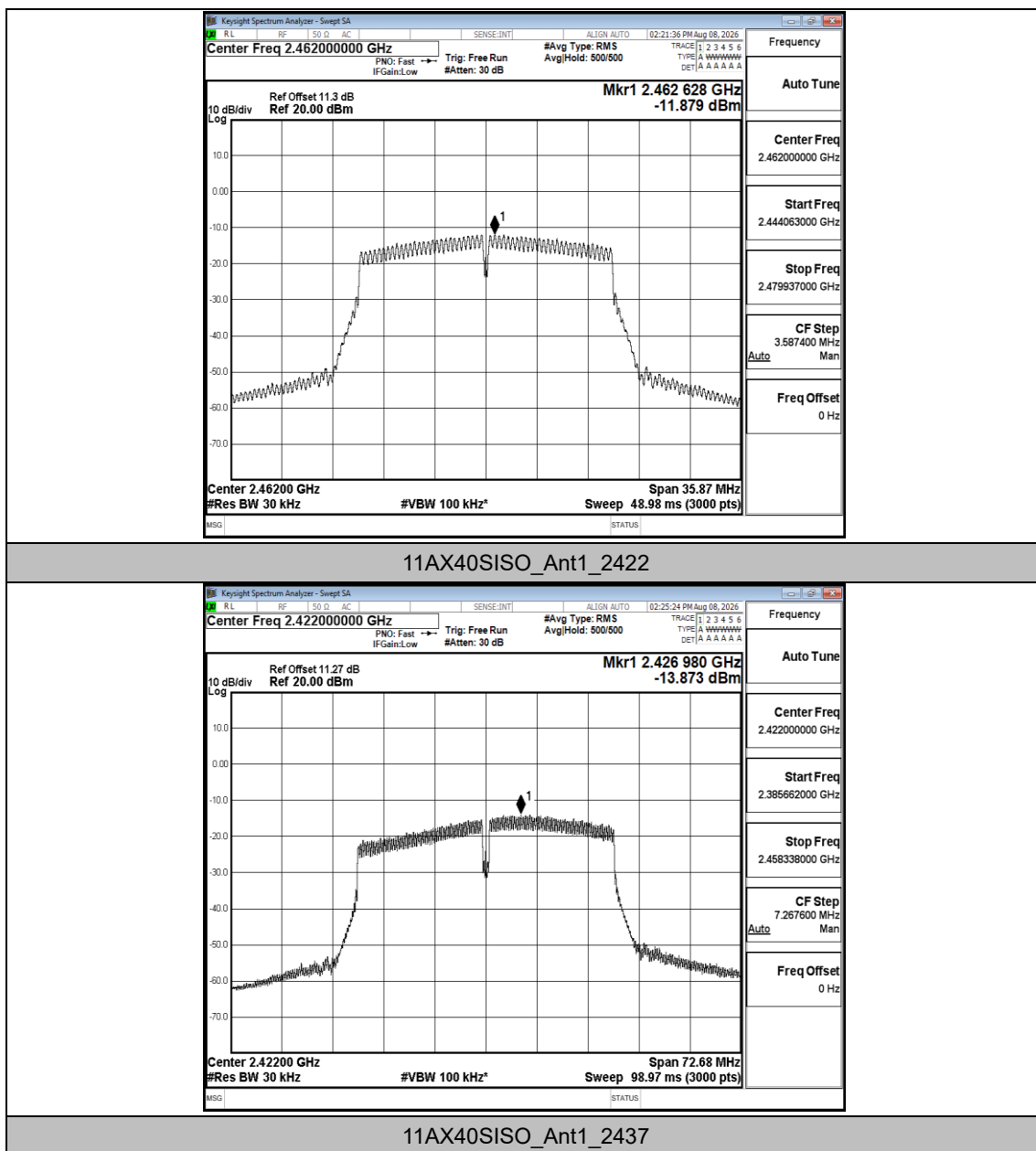


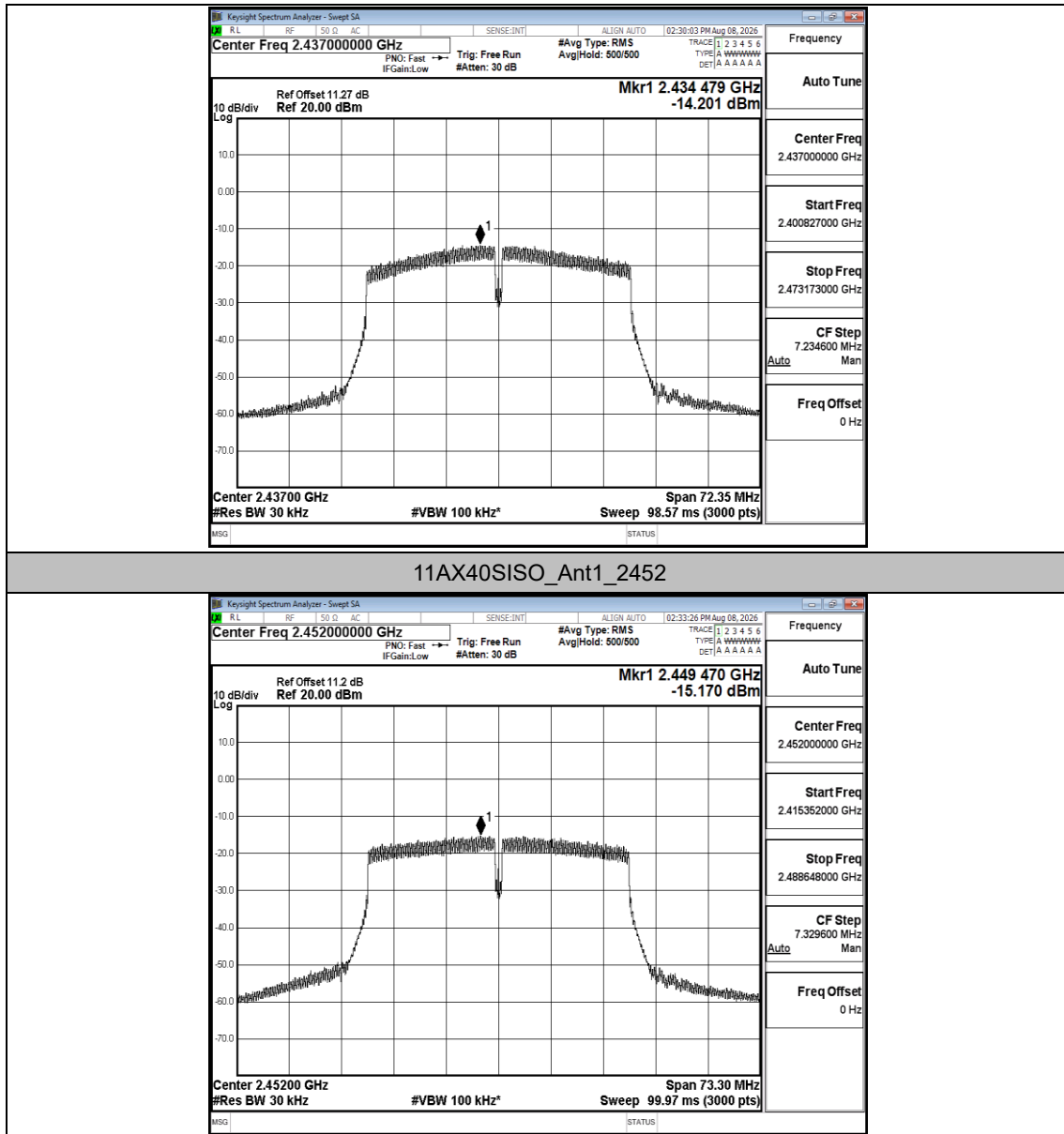










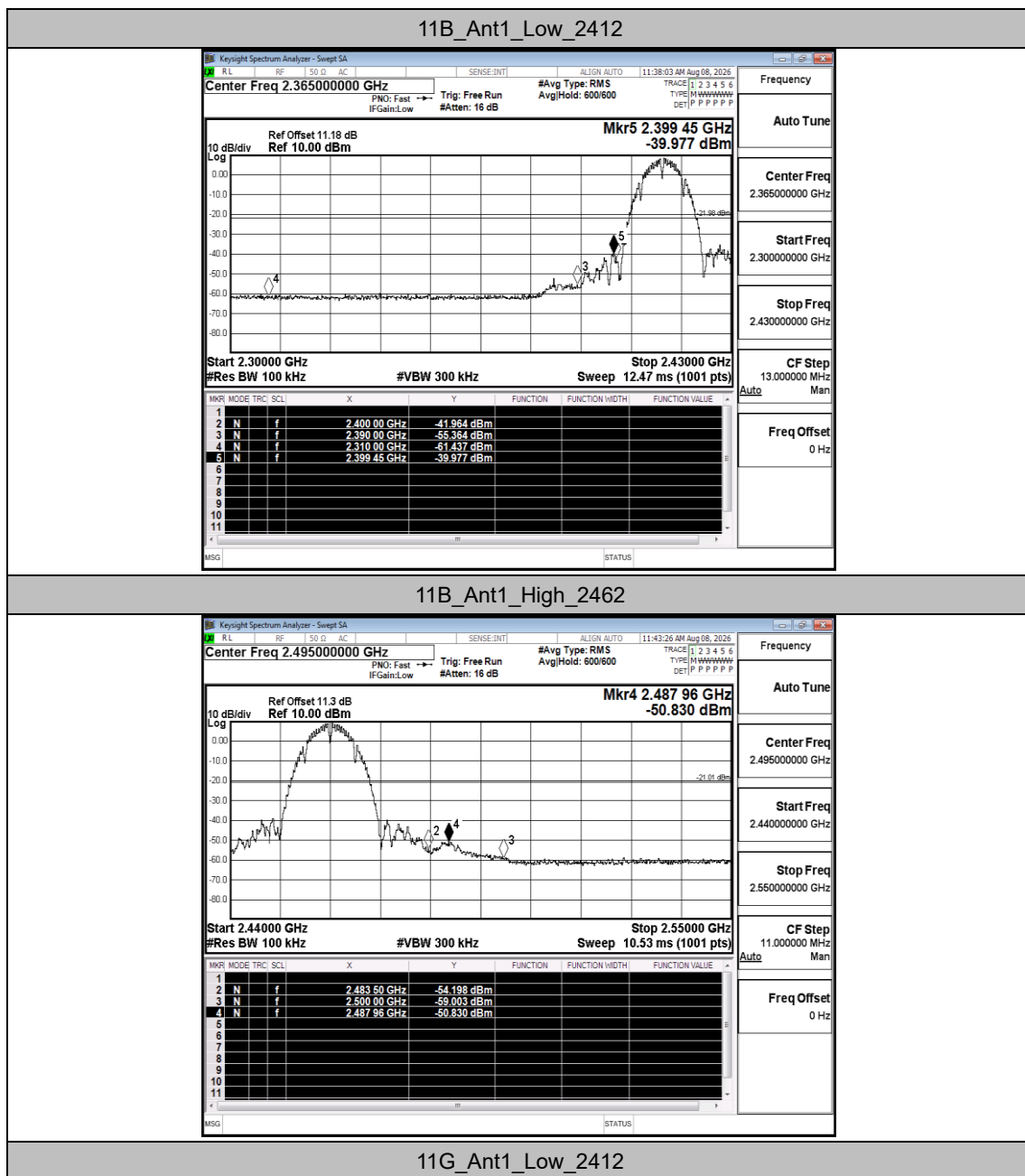


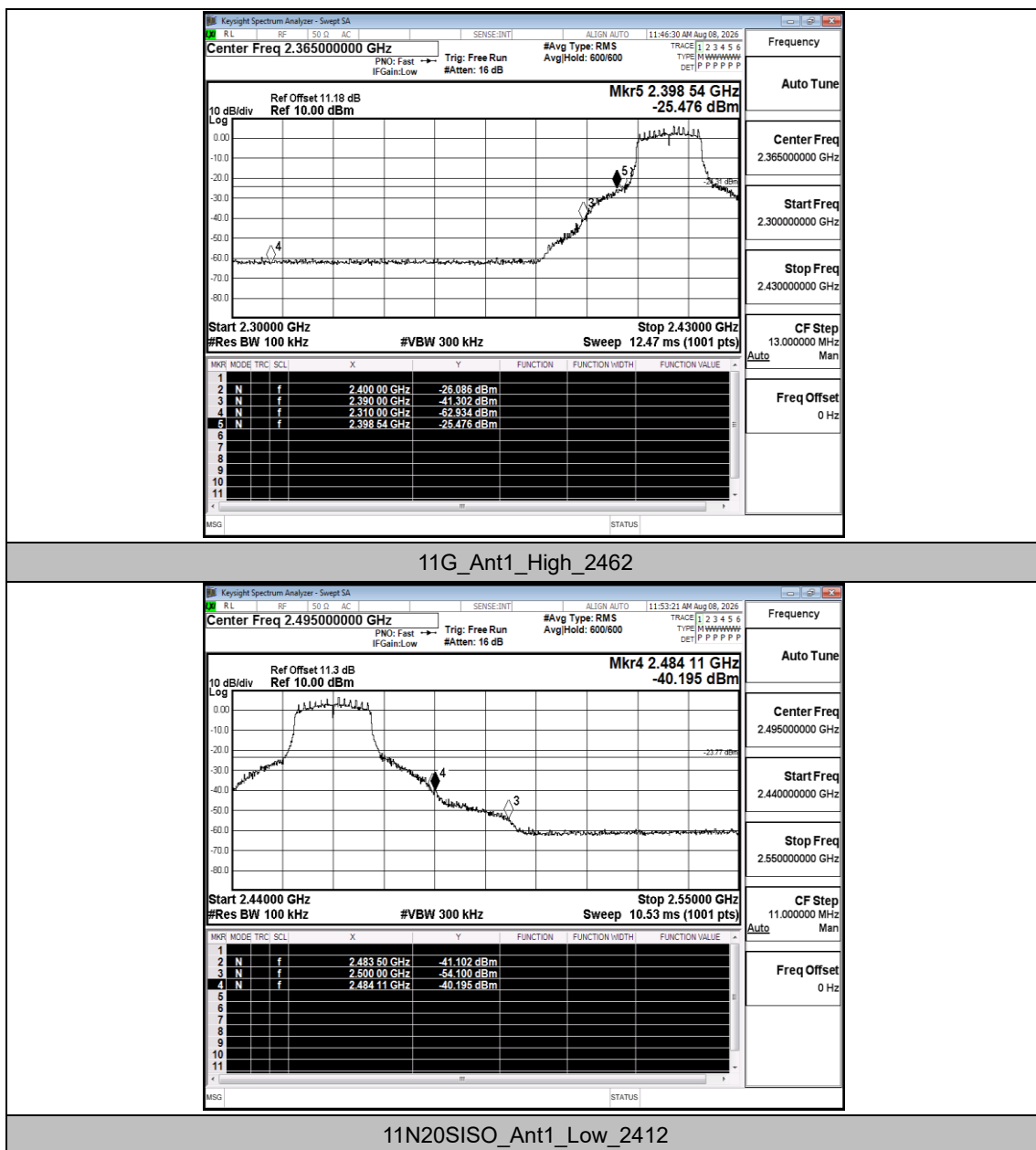
C.4 Band edge measurements

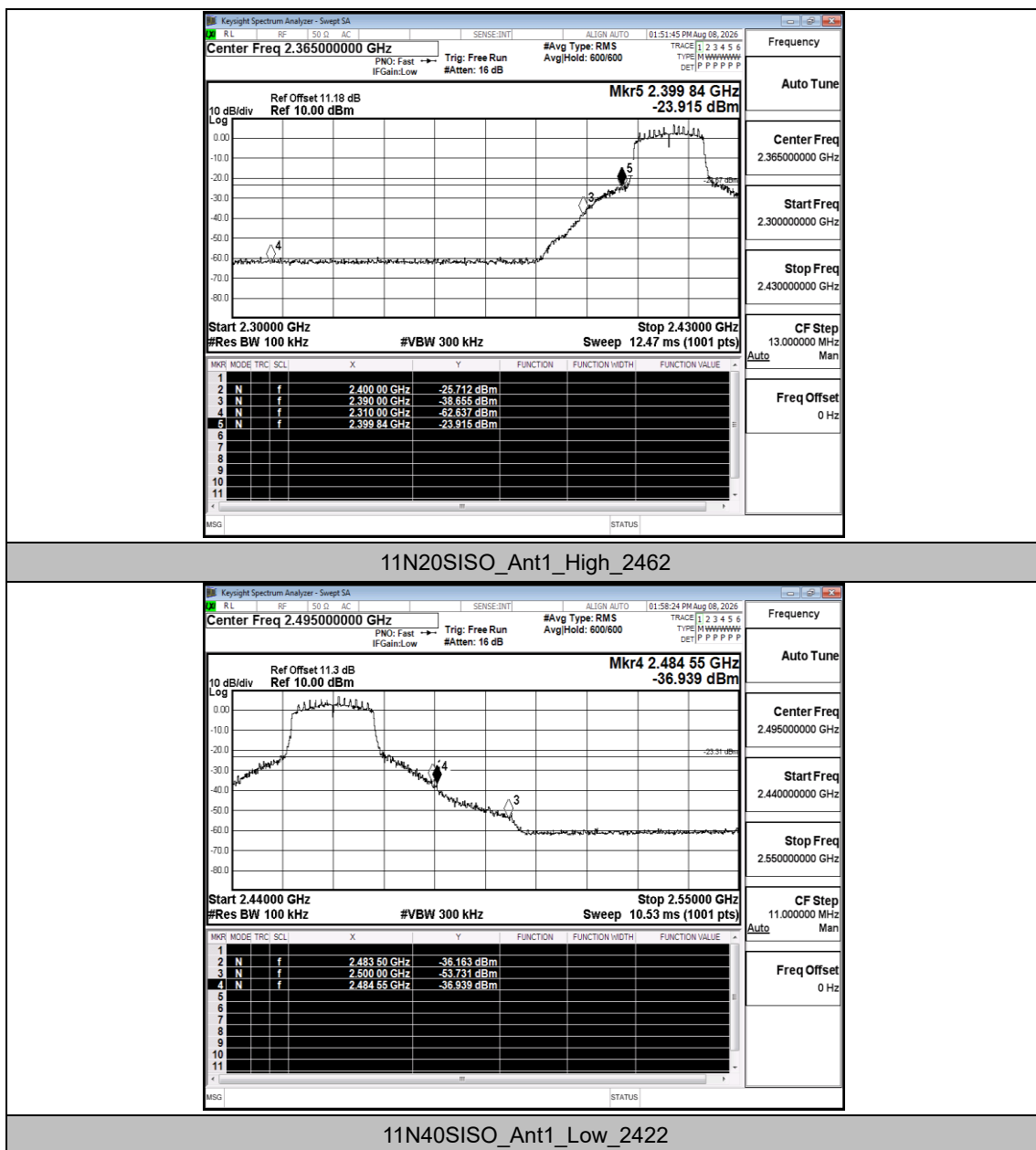
Test Result

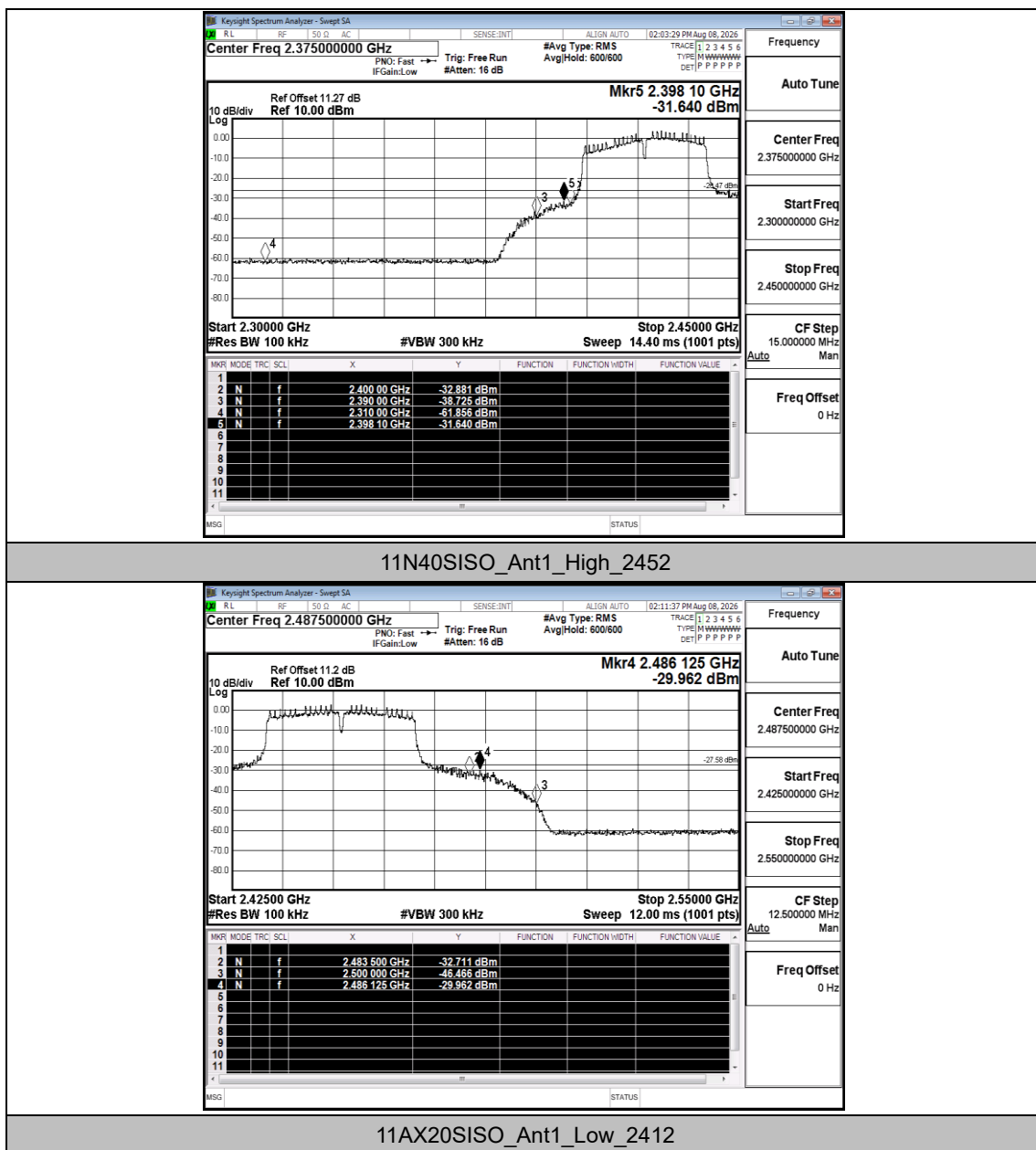
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.02	-39.98	≤ -21.98	PASS
		High	2462	8.99	-50.83	≤ -21.01	PASS
11G	Ant1	Low	2412	5.69	-25.48	≤ -24.31	PASS
		High	2462	6.23	-40.2	≤ -23.77	PASS
11N20SISO	Ant1	Low	2412	6.33	-23.92	≤ -23.67	PASS
		High	2462	6.69	-36.94	≤ -23.31	PASS
11N40SISO	Ant1	Low	2422	3.53	-31.64	≤ -26.47	PASS
		High	2452	2.42	-29.96	≤ -27.58	PASS
11AX20SISO	Ant1	Low	2412	2.11	-34.65	≤ -27.89	PASS
		High	2462	2.65	-45.53	≤ -27.35	PASS
11AX40SISO	Ant1	Low	2422	0.31	-39.22	≤ -29.69	PASS
		High	2452	-0.77	-39.04	≤ -30.77	PASS

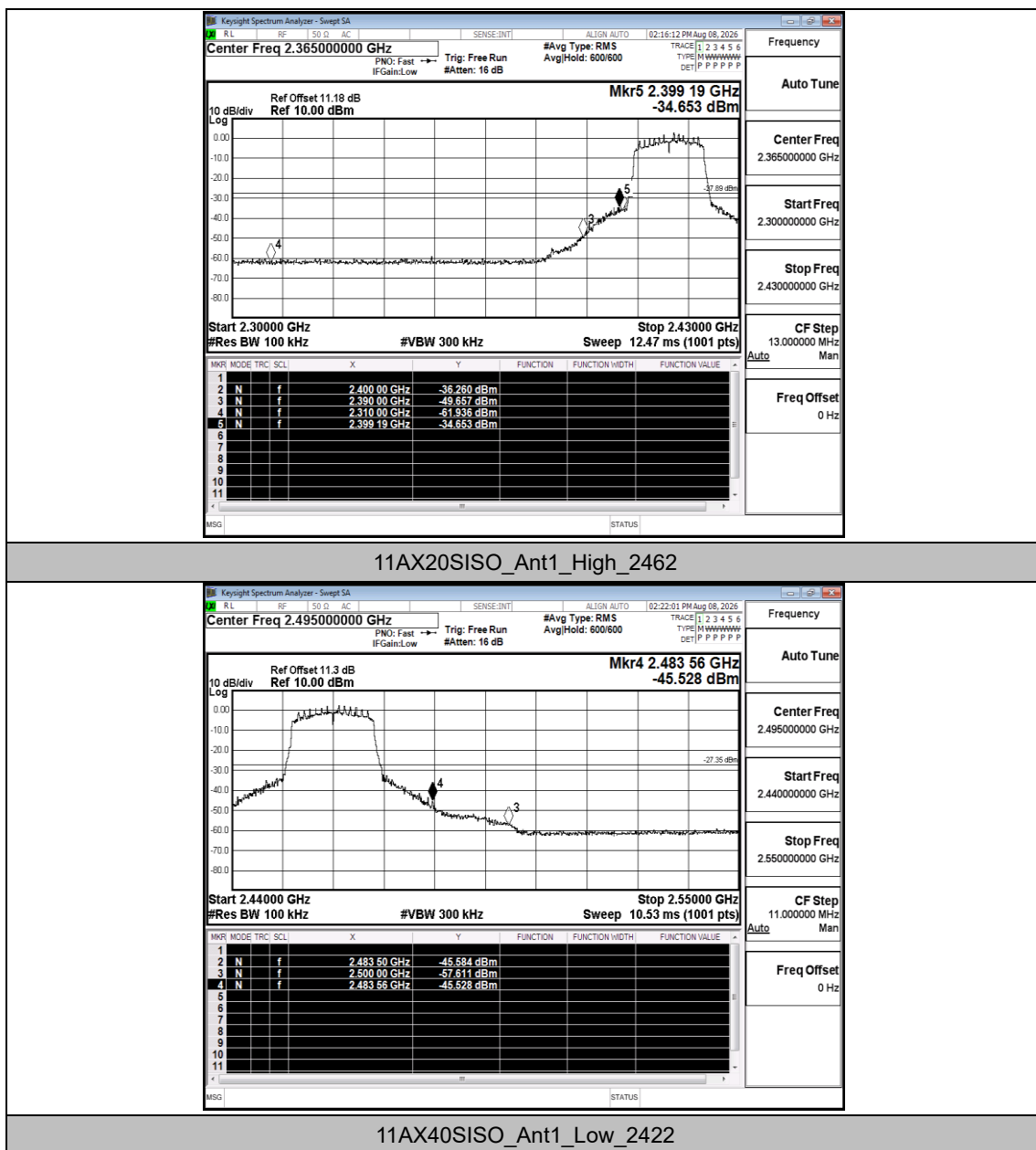
Test Graphs

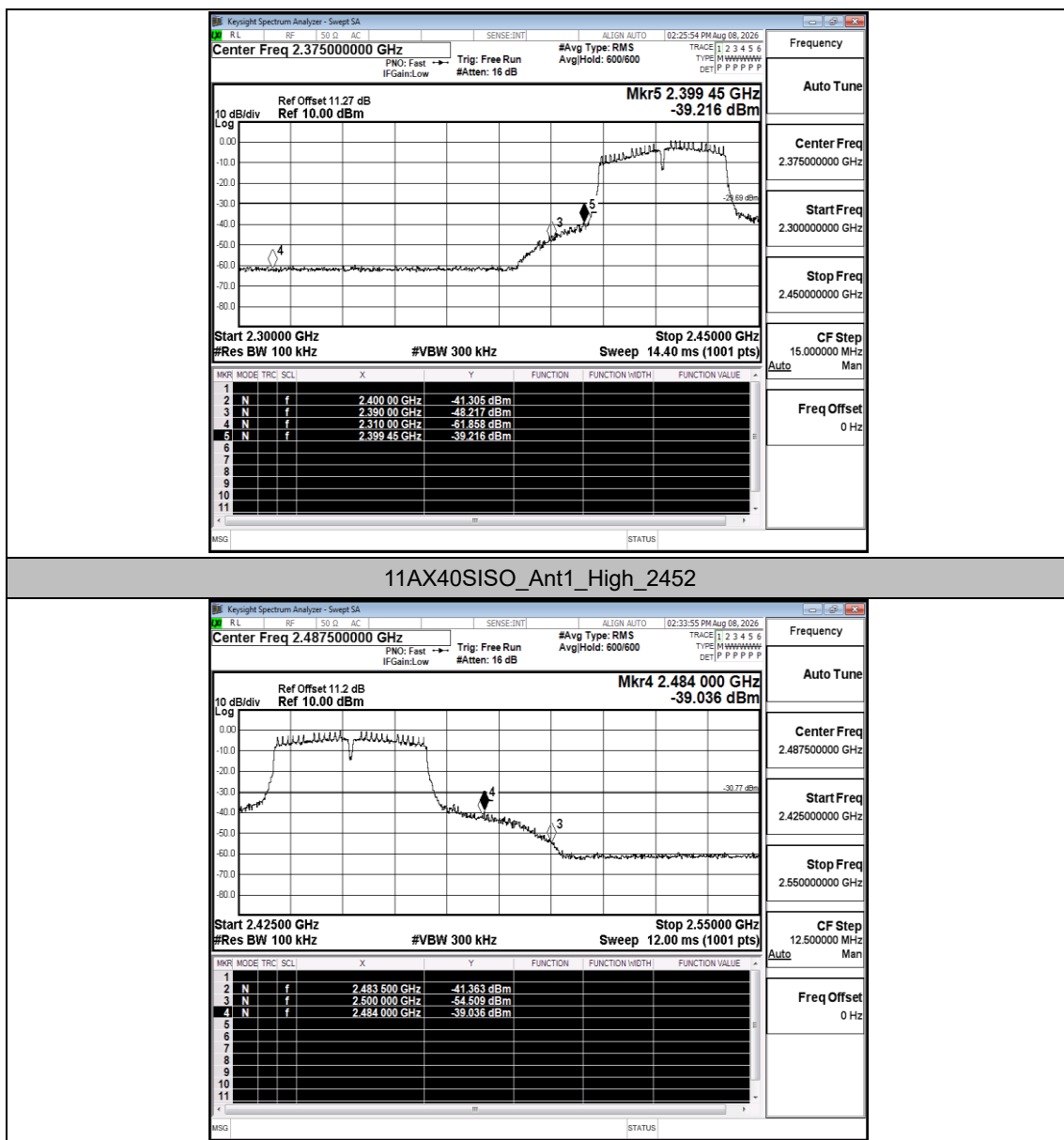












C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	8.21	8.21	---	PASS
			30~1000	8.21	-69.67	≤-21.79	PASS
			1000~26500	8.21	-36.22	≤-21.79	PASS
		2437	Reference	8.70	8.70	---	PASS
			30~1000	8.70	-69.51	≤-21.3	PASS
			1000~26500	8.70	-39.72	≤-21.3	PASS
		2462	Reference	8.99	8.99	---	PASS
			30~1000	8.99	-69.61	≤-21.01	PASS
			1000~26500	8.99	-40.12	≤-21.01	PASS
11G	Ant1	2412	Reference	5.58	5.58	---	PASS
			30~1000	5.58	-69.53	≤-24.42	PASS
			1000~26500	5.58	-43.54	≤-24.42	PASS
		2437	Reference	5.91	5.91	---	PASS
			30~1000	5.91	-69.56	≤-24.09	PASS
			1000~26500	5.91	-44.52	≤-24.09	PASS
		2462	Reference	6.27	6.27	---	PASS
			30~1000	6.27	-69.3	≤-23.73	PASS
			1000~26500	6.27	-44.44	≤-23.73	PASS
11N20SISO	Ant1	2412	Reference	6.35	6.35	---	PASS
			30~1000	6.35	-69.82	≤-23.65	PASS
			1000~26500	6.35	-43.32	≤-23.65	PASS
		2437	Reference	6.56	6.56	---	PASS
			30~1000	6.56	-69.81	≤-23.44	PASS
			1000~26500	6.56	-43.64	≤-23.44	PASS
		2462	Reference	6.66	6.66	---	PASS
			30~1000	6.66	-70.12	≤-23.34	PASS
			1000~26500	6.66	-44.6	≤-23.34	PASS
11N40SISO	Ant1	2422	Reference	3.54	3.54	---	PASS
			30~1000	3.54	-69.19	≤-26.46	PASS
			1000~26500	3.54	-44.55	≤-26.46	PASS
		2437	Reference	3.49	3.49	---	PASS
			30~1000	3.49	-68.61	≤-26.51	PASS
			1000~26500	3.49	-44.75	≤-26.51	PASS
		2452	Reference	2.34	2.34	---	PASS
			30~1000	2.34	-69.26	≤-27.66	PASS