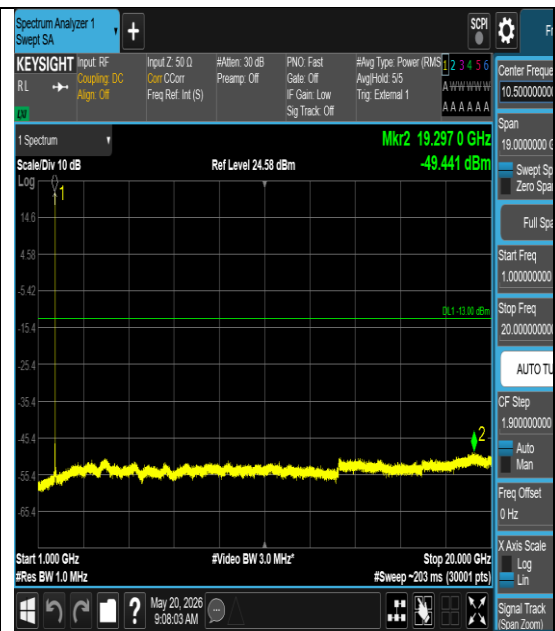
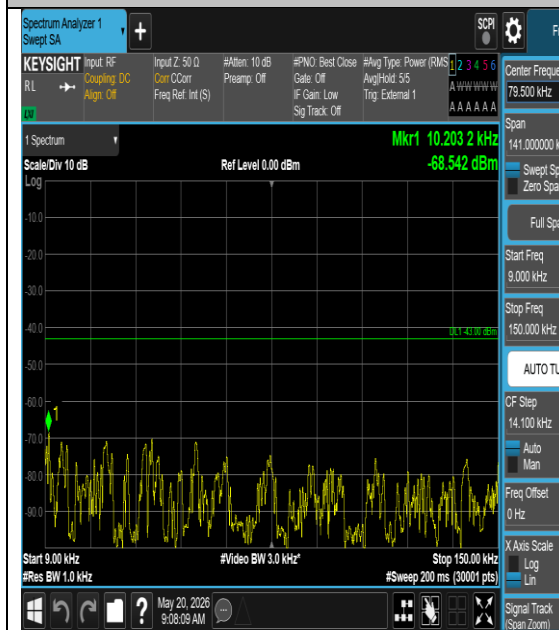




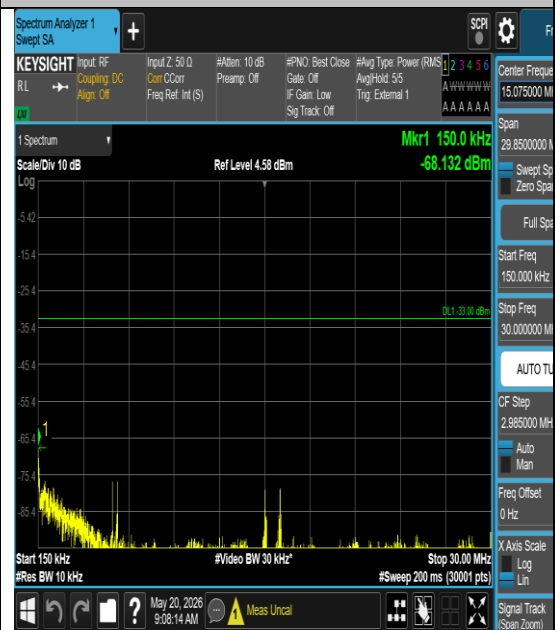
Band66-0.18-BPSK-131973-1@0-15kHz-30-1000-PASS



Band66-0.18-BPSK-131973-1@0-15kHz-1000-20000-PASS



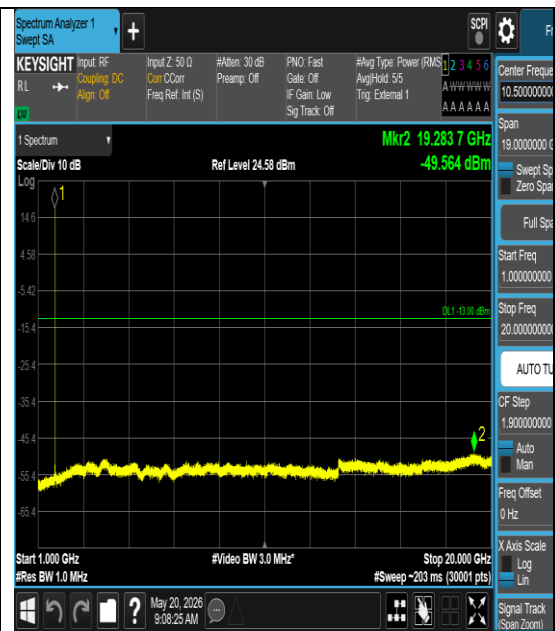
Band66-0.18-BPSK-131973-1@11-15kHz-0.009-0.15-PASS



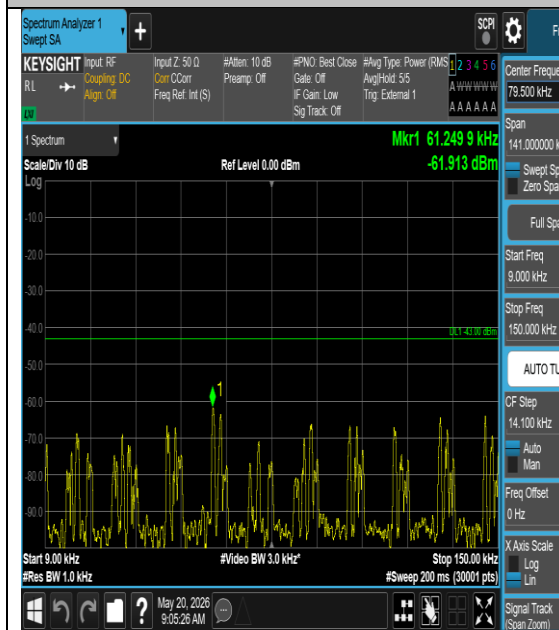
Band66-0.18-BPSK-131973-1@11-15kHz-0.15-30-PASS



Band66-0.18-BPSK-131973-1@11-15kHz-30-1000-PASS



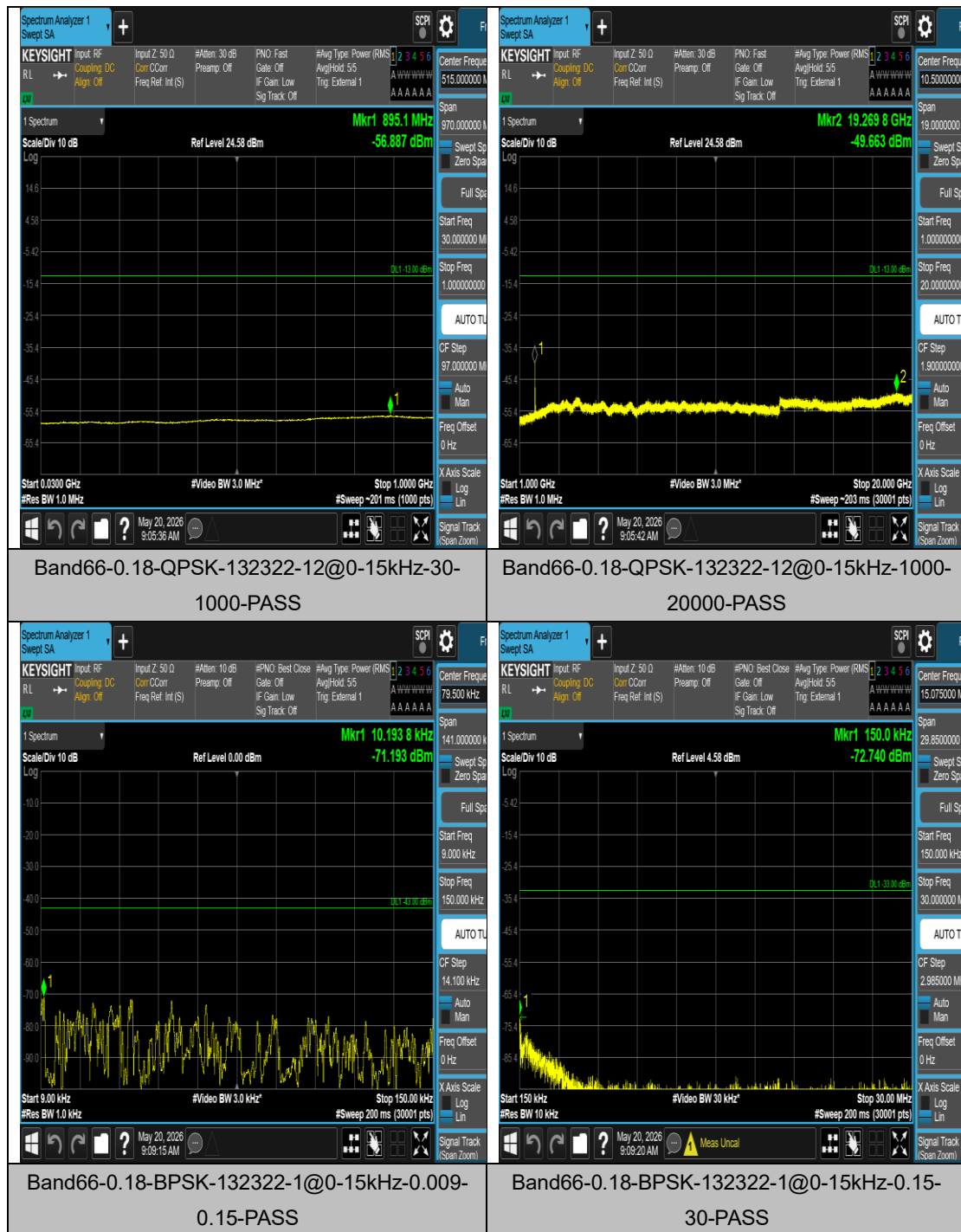
Band66-0.18-BPSK-131973-1@11-15kHz-1000-20000-PASS

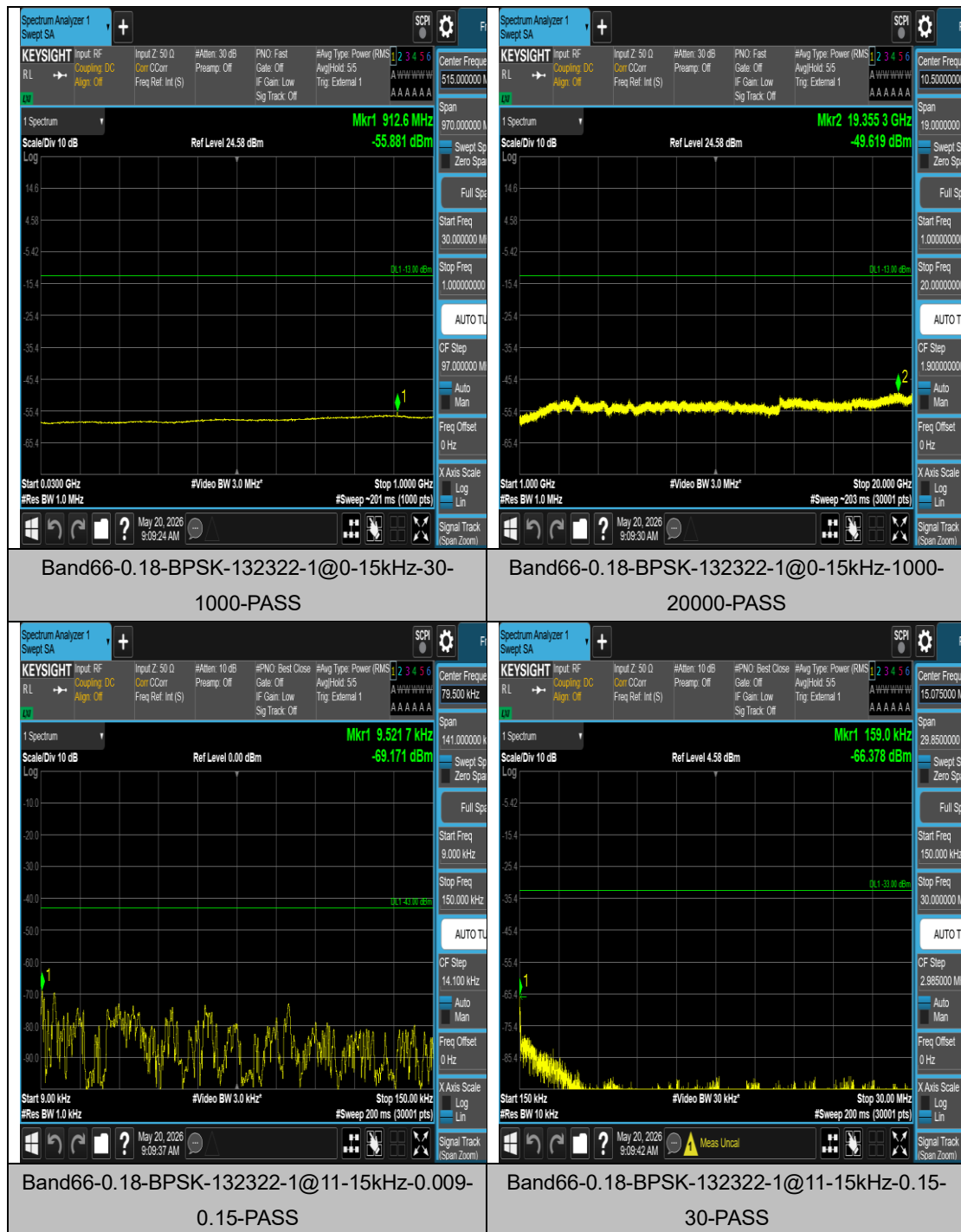


Band66-0.18-QPSK-132322-12@0-15kHz-0.009-0.15-PASS



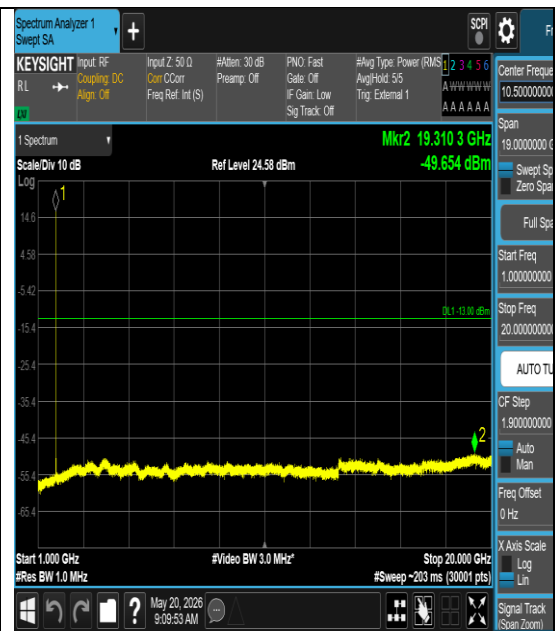
Band66-0.18-QPSK-132322-12@0-15kHz-0.15-30-PASS



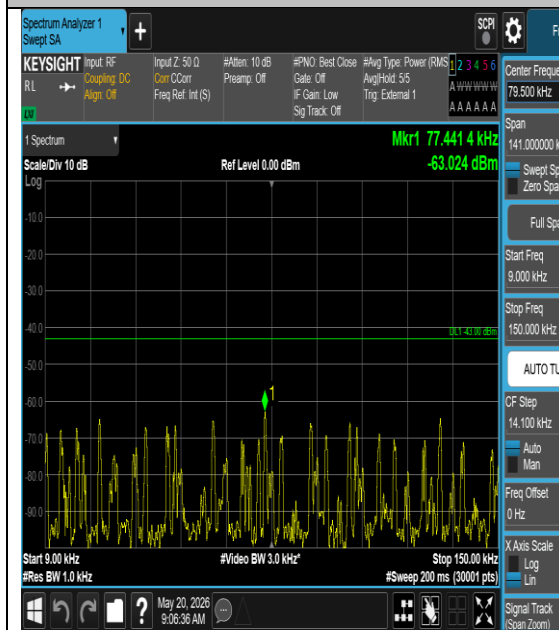




Band66-0.18-BPSK-132322-1@11-15kHz-30-1000-PASS



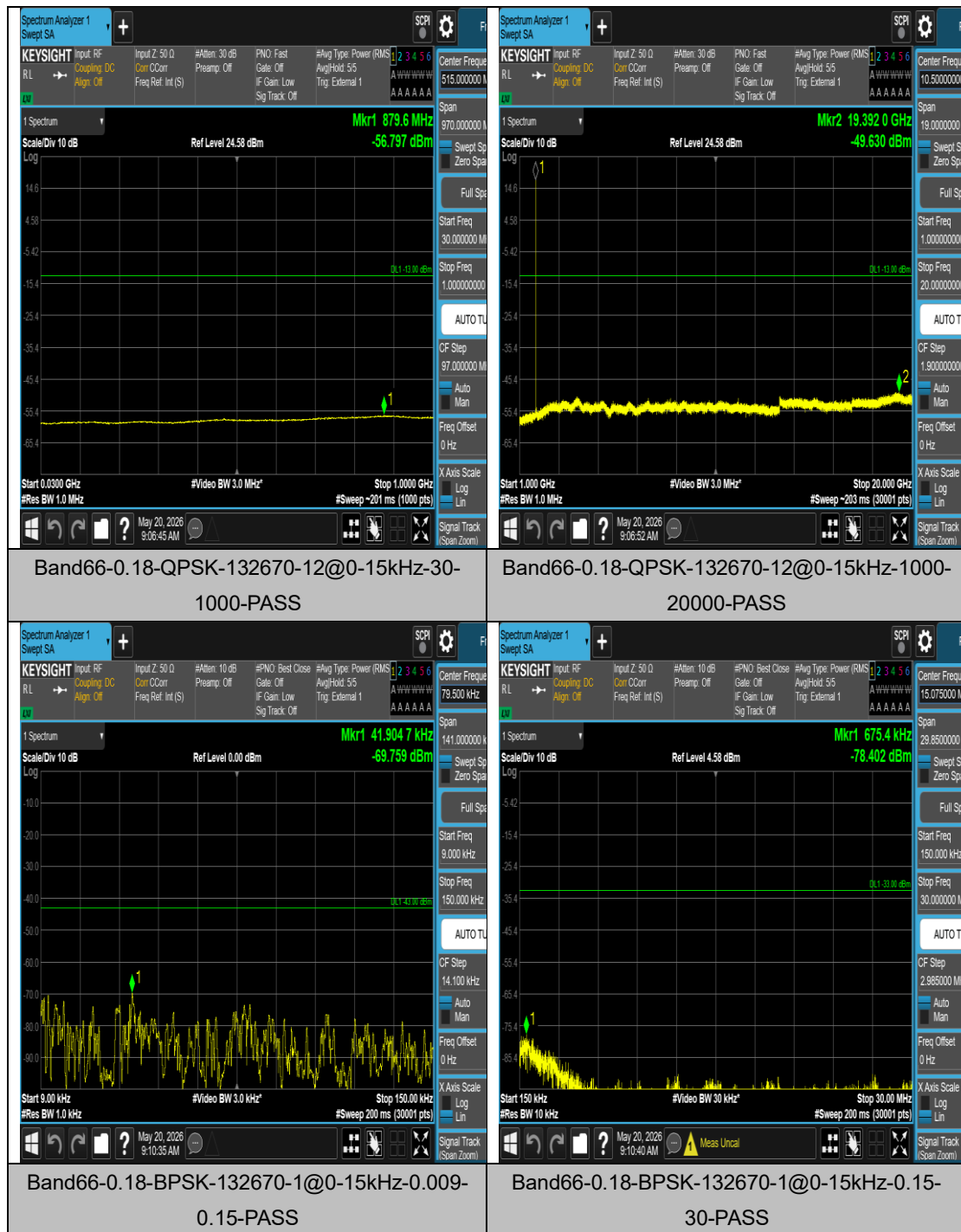
Band66-0.18-BPSK-132322-1@11-15kHz-1000-20000-PASS

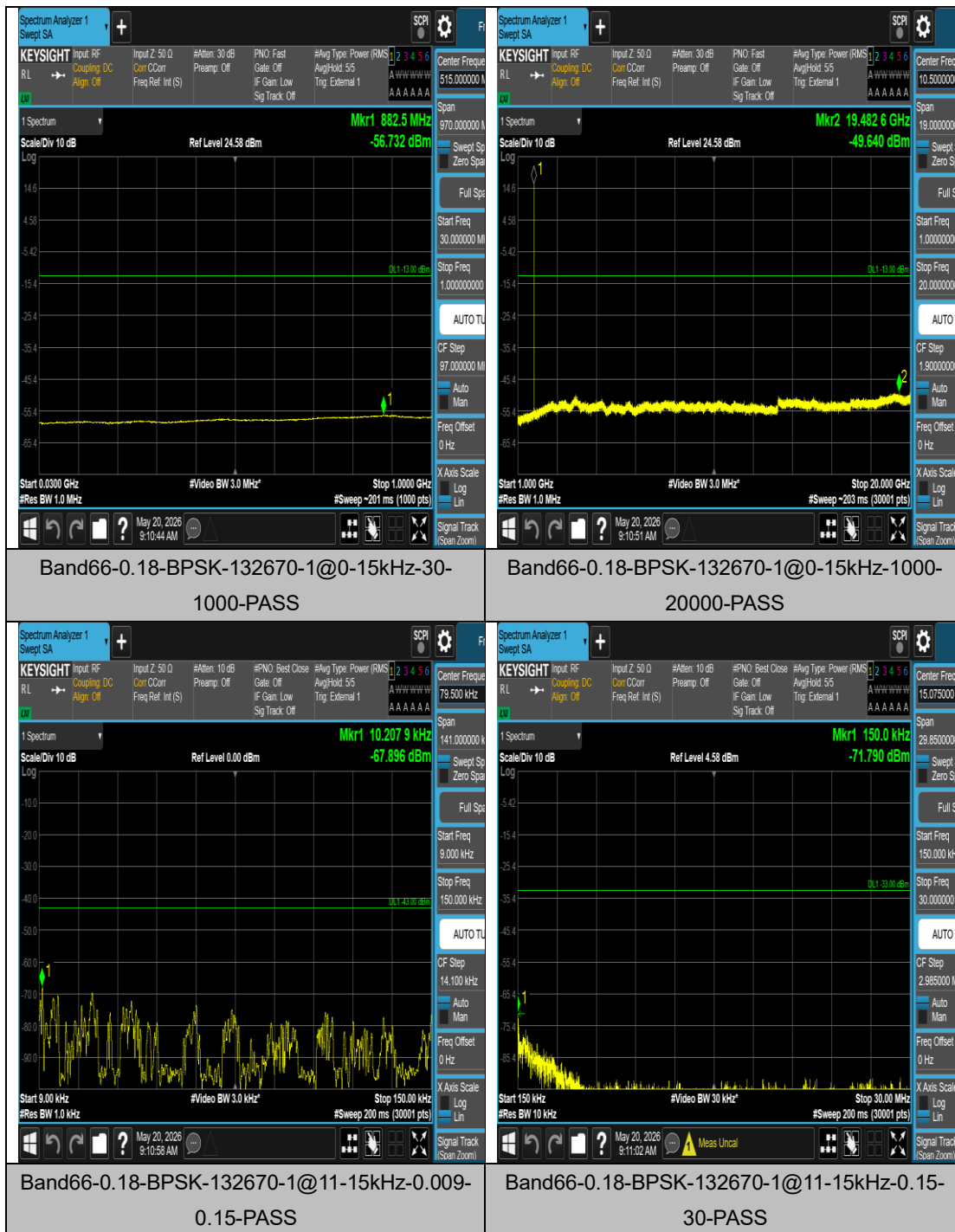


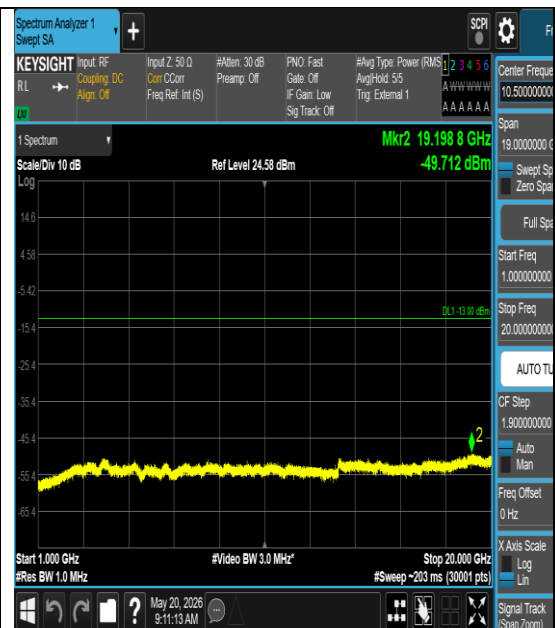
Band66-0.18-QPSK-132670-12@0-15kHz-0.009-0.15-PASS



Band66-0.18-QPSK-132670-12@0-15kHz-0.15-30-PASS







Appendix F: Frequency Stability for NB1

Test Result

Voltage												
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band 66	Stand-Alone	3.75 kHz	0.18	QPSK	132 322	1@ 0	VL	NT	-1.60	-0.000 917	±2.5	PASS
Band 66	Stand-Alone	3.75 kHz	0.18	QPSK	132 322	1@ 0	VN	NT	-1.60	-0.000 917	±2.5	PASS
Band 66	Stand-Alone	3.75 kHz	0.18	QPSK	132 322	1@ 0	VH	NT	-4.20	-0.002 407	±2.5	PASS
Band 66	Stand-Alone	3.75 kHz	0.18	QPSK	132 322	1@ 47	VL	NT	-1.50	-0.000 860	±2.5	PASS
Band 66	Stand-Alone	3.75 kHz	0.18	QPSK	132 322	1@ 47	VN	NT	-1.40	-0.000 802	±2.5	PASS
Band 66	Stand-Alone	3.75 kHz	0.18	QPSK	132 322	1@ 47	VH	NT	-2.70	-0.001 547	±2.5	PASS
Band 66	Stand-Alone	15k Hz	0.18	QPSK	132 322	1@ 0	VL	NT	0.80	0.000 458	±2.5	PASS
Band 66	Stand-Alone	15k Hz	0.18	QPSK	132 322	1@ 0	VN	NT	-3.40	-0.001 948	±2.5	PASS
Band 66	Stand-Alone	15k Hz	0.18	QPSK	132 322	1@ 0	VH	NT	1.50	0.000 860	±2.5	PASS

Ban d66	Stan d- Alon e	15k Hz	0.18	QPSK	132 322	1@ 11	VL	NT	1.90	0.001 089	±2. 5	PA SS
Ban d66	Stan d- Alon e	15k Hz	0.18	QPSK	132 322	1@ 11	VN	NT	1.80	0.001 032	±2. 5	PA SS
Ban d66	Stan d- Alon e	15k Hz	0.18	QPSK	132 322	1@ 11	VH	NT	3.20	0.001 834	±2. 5	PA SS

Temperature												
Band	OpM ode	Bandw idth	Modula tion	Chan nel	Ton es	SC S	Volt age [Vdc]	Temper ature (°C)	Devia tion (Hz)	Devia tion (ppm)	Lim it (pp m)	Ver dict
Ban d66	Stan d- Alon e	3.75k Hz	0.18	QPS K	132 322	1@ 0	NV	-30	-5.30	- 0.003 037	±2. 5	PA SS
Ban d66	Stan d- Alon e	3.75k Hz	0.18	QPS K	132 322	1@ 0	NV	-20	-1.50	- 0.000 860	±2. 5	PA SS
Ban d66	Stan d- Alon e	3.75k Hz	0.18	QPS K	132 322	1@ 0	NV	-10	-1.70	- 0.000 974	±2. 5	PA SS
Ban d66	Stan d- Alon e	3.75k Hz	0.18	QPS K	132 322	1@ 0	NV	0	-1.20	- 0.000 688	±2. 5	PA SS
Ban d66	Stan d- Alon e	3.75k Hz	0.18	QPS K	132 322	1@ 0	NV	10	-2.10	- 0.001 203	±2. 5	PA SS
Ban d66	Stan d- Alon e	3.75k Hz	0.18	QPS K	132 322	1@ 0	NV	20	-3.40	- 0.001 948	±2. 5	PA SS
Ban d66	Stan d-	3.75k Hz	0.18	QPS K	132 322	1@ 0	NV	30	-3.00	- 0.001	±2. 5	PA SS

	Alone									719		
Band66	Stand-Alone	3.75k Hz	0.18	QPSK	132322	1@0	NV	40	-3.90	-0.002235	±2.5	PASS
Band66	Stand-Alone	3.75k Hz	0.18	QPSK	132322	1@0	NV	50	-3.90	-0.002235	±2.5	PASS
Band66	Stand-Alone	3.75k Hz	0.18	QPSK	132322	1@47	NV	-30	-3.60	-0.002063	±2.5	PASS
Band66	Stand-Alone	3.75k Hz	0.18	QPSK	132322	1@47	NV	-20	-3.80	-0.002178	±2.5	PASS
Band66	Stand-Alone	3.75k Hz	0.18	QPSK	132322	1@47	NV	-10	0.10	0.000057	±2.5	PASS
Band66	Stand-Alone	3.75k Hz	0.18	QPSK	132322	1@47	NV	0	-0.80	-0.000458	±2.5	PASS
Band66	Stand-Alone	3.75k Hz	0.18	QPSK	132322	1@47	NV	10	-1.00	-0.000573	±2.5	PASS
Band66	Stand-Alone	3.75k Hz	0.18	QPSK	132322	1@47	NV	20	-1.70	-0.000974	±2.5	PASS
Band66	Stand-Alone	3.75k Hz	0.18	QPSK	132322	1@47	NV	30	-1.00	-0.000573	±2.5	PASS
Band66	Stand-Alone	3.75k Hz	0.18	QPSK	132322	1@47	NV	40	-2.80	-0.001605	±2.5	PASS
Band	Stand	3.75k	0.18	QPS	132	1@	NV	50	-1.00	-	±2.	PA

d66	d-Alone	Hz		K	322	47				0.000573	5	SS
Ban d66	Stand-Alone	15kHz	0.18	QPSK	132322	1@0	NV	-30	4.60	0.002636	±2.5	PASS
Ban d66	Stand-Alone	15kHz	0.18	QPSK	132322	1@0	NV	-20	0.50	0.000287	±2.5	PASS
Ban d66	Stand-Alone	15kHz	0.18	QPSK	132322	1@0	NV	-10	-0.60	-0.000344	±2.5	PASS
Ban d66	Stand-Alone	15kHz	0.18	QPSK	132322	1@0	NV	0	1.80	0.001032	±2.5	PASS
Ban d66	Stand-Alone	15kHz	0.18	QPSK	132322	1@0	NV	10	4.00	0.002292	±2.5	PASS
Ban d66	Stand-Alone	15kHz	0.18	QPSK	132322	1@0	NV	20	0.40	0.000229	±2.5	PASS
Ban d66	Stand-Alone	15kHz	0.18	QPSK	132322	1@0	NV	30	2.90	0.001662	±2.5	PASS
Ban d66	Stand-Alone	15kHz	0.18	QPSK	132322	1@0	NV	40	1.40	0.000802	±2.5	PASS
Ban d66	Stand-Alone	15kHz	0.18	QPSK	132322	1@0	NV	50	2.60	0.001490	±2.5	PASS
Ban d66	Stand-Alone	15kHz	0.18	QPSK	132322	1@11	NV	-30	5.60	0.003209	±2.5	PASS

Ban d66	Stan d- Alon e	15kHz	0.18	QPS K	132 322	1@ 11	NV	-20	3.10	0.001 777	±2. 5	PA SS
Ban d66	Stan d- Alon e	15kHz	0.18	QPS K	132 322	1@ 11	NV	-10	1.90	0.001 089	±2. 5	PA SS
Ban d66	Stan d- Alon e	15kHz	0.18	QPS K	132 322	1@ 11	NV	0	5.00	0.002 865	±2. 5	PA SS
Ban d66	Stan d- Alon e	15kHz	0.18	QPS K	132 322	1@ 11	NV	10	4.10	0.002 350	±2. 5	PA SS
Ban d66	Stan d- Alon e	15kHz	0.18	QPS K	132 322	1@ 11	NV	20	4.10	0.002 350	±2. 5	PA SS
Ban d66	Stan d- Alon e	15kHz	0.18	QPS K	132 322	1@ 11	NV	30	3.60	0.002 063	±2. 5	PA SS
Ban d66	Stan d- Alon e	15kHz	0.18	QPS K	132 322	1@ 11	NV	40	2.80	0.001 605	±2. 5	PA SS
Ban d66	Stan d- Alon e	15kHz	0.18	QPS K	132 322	1@ 11	NV	50	0.20	0.000 115	±2. 5	PA SS