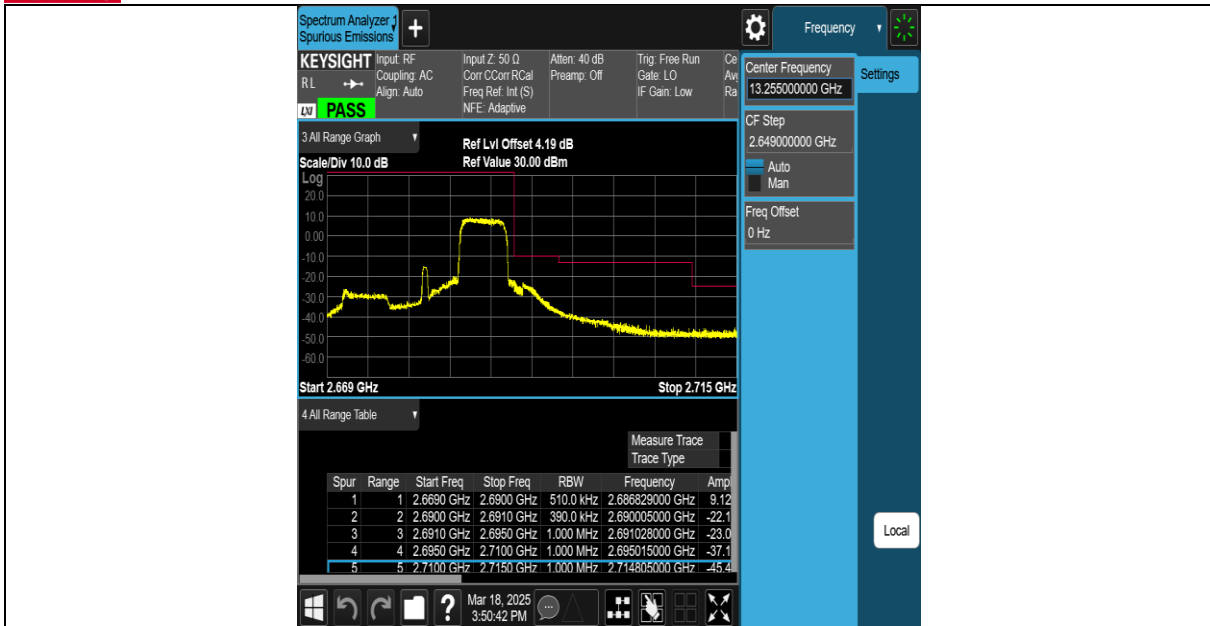
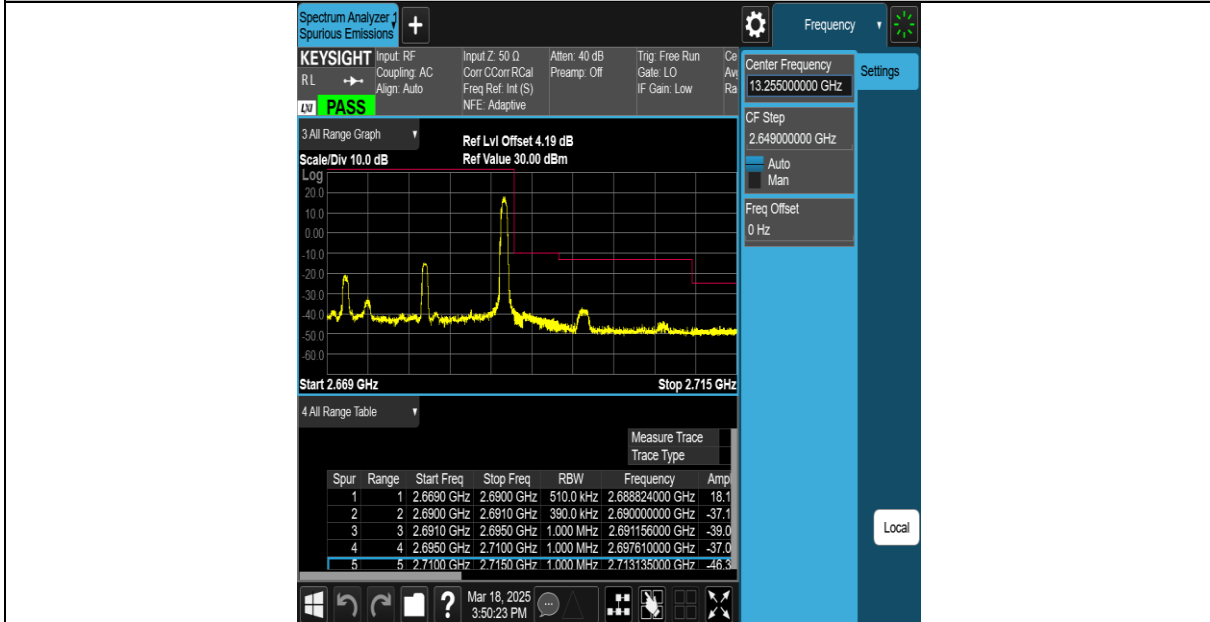




BUREAU VERITAS Test Report No.: PSU-QS2503050113RF04



Band41-20MHz-16QAM-41490-1RB#99-PASS





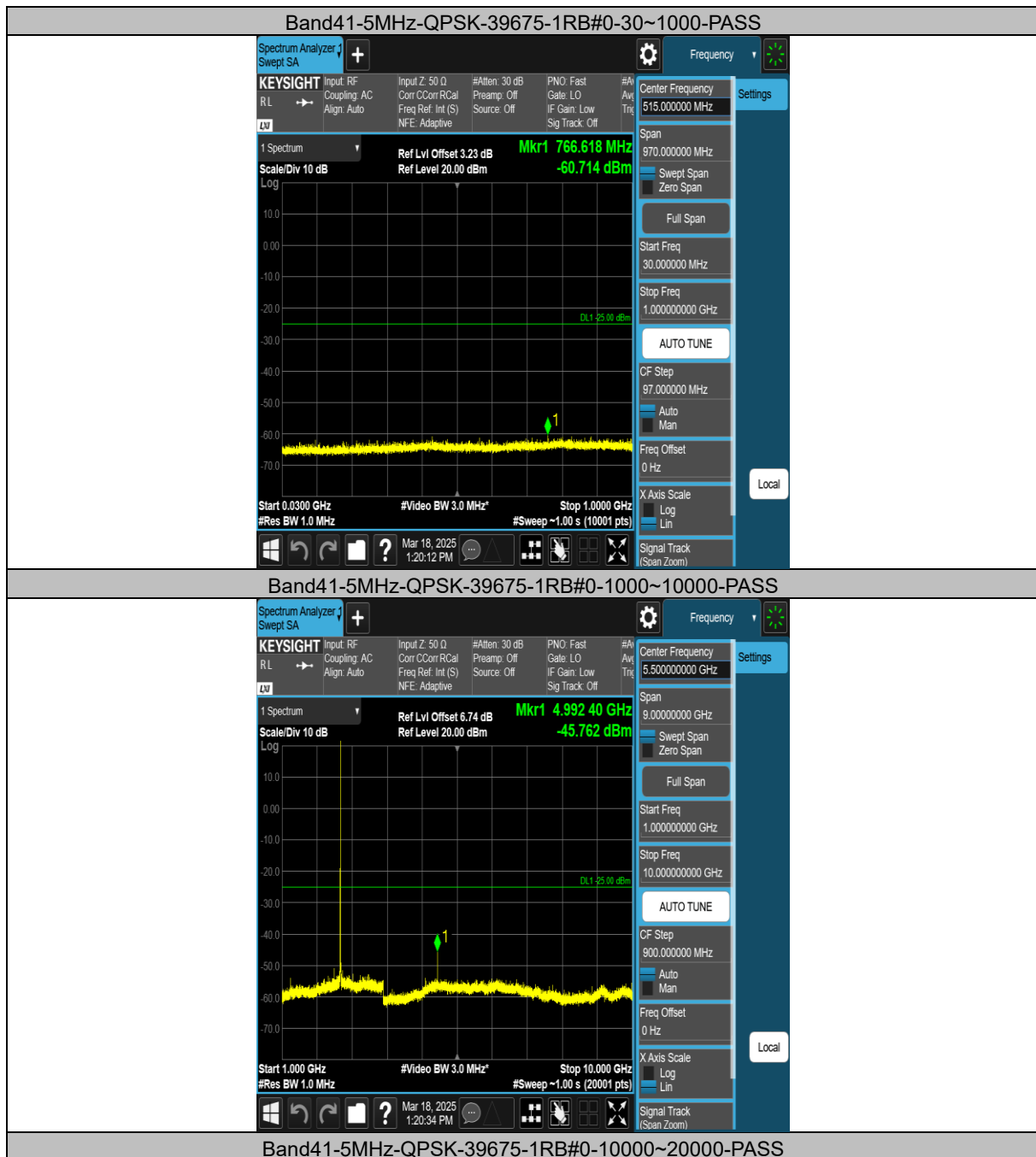
APPENDIX : CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	30~1000	-60.71	PASS
Band41	5MHz	QPSK	39675	1RB#0	1000~10000	-45.76	PASS
Band41	5MHz	QPSK	39675	1RB#0	10000~20000	-56.65	PASS
Band41	5MHz	QPSK	39675	1RB#0	20000~27000	-52.48	PASS
Band41	5MHz	QPSK	40620	1RB#0	30~1000	-59.94	PASS
Band41	5MHz	QPSK	40620	1RB#0	1000~10000	-43.21	PASS
Band41	5MHz	QPSK	40620	1RB#0	10000~20000	-53.08	PASS
Band41	5MHz	QPSK	40620	1RB#0	20000~27000	-53.60	PASS
Band41	5MHz	QPSK	41565	1RB#0	30~1000	-56.64	PASS
Band41	5MHz	QPSK	41565	1RB#0	1000~10000	-49.43	PASS
Band41	5MHz	QPSK	41565	1RB#0	10000~20000	-53.83	PASS
Band41	5MHz	QPSK	41565	1RB#0	20000~27000	-53.02	PASS
Band41	10MHz	QPSK	39700	1RB#0	30~1000	-61.17	PASS
Band41	10MHz	QPSK	39700	1RB#0	1000~10000	-45.10	PASS
Band41	10MHz	QPSK	39700	1RB#0	10000~20000	-57.51	PASS
Band41	10MHz	QPSK	39700	1RB#0	20000~27000	-53.75	PASS
Band41	10MHz	QPSK	40620	1RB#0	30~1000	-61.22	PASS
Band41	10MHz	QPSK	40620	1RB#0	1000~10000	-49.17	PASS
Band41	10MHz	QPSK	40620	1RB#0	10000~20000	-54.22	PASS
Band41	10MHz	QPSK	40620	1RB#0	20000~27000	-53.95	PASS
Band41	10MHz	QPSK	41540	1RB#0	30~1000	-55.21	PASS
Band41	10MHz	QPSK	41540	1RB#0	1000~10000	-50.04	PASS
Band41	10MHz	QPSK	41540	1RB#0	10000~20000	-54.76	PASS
Band41	10MHz	QPSK	41540	1RB#0	20000~27000	-53.63	PASS
Band41	15MHz	QPSK	39725	1RB#0	30~1000	-60.54	PASS
Band41	15MHz	QPSK	39725	1RB#0	1000~10000	-46.47	PASS
Band41	15MHz	QPSK	39725	1RB#0	10000~20000	-57.34	PASS
Band41	15MHz	QPSK	39725	1RB#0	20000~27000	-52.91	PASS
Band41	15MHz	QPSK	40620	1RB#0	30~1000	-60.84	PASS
Band41	15MHz	QPSK	40620	1RB#0	1000~10000	-47.64	PASS
Band41	15MHz	QPSK	40620	1RB#0	10000~20000	-54.81	PASS
Band41	15MHz	QPSK	40620	1RB#0	20000~27000	-53.68	PASS
Band41	15MHz	QPSK	41515	1RB#0	30~1000	-56.11	PASS
Band41	15MHz	QPSK	41515	1RB#0	1000~10000	-50.16	PASS
Band41	15MHz	QPSK	41515	1RB#0	10000~20000	-55.13	PASS
Band41	15MHz	QPSK	41515	1RB#0	20000~27000	-53.86	PASS
Band41	20MHz	QPSK	39750	1RB#0	30~1000	-60.42	PASS
Band41	20MHz	QPSK	39750	1RB#0	1000~10000	-45.58	PASS
Band41	20MHz	QPSK	39750	1RB#0	10000~20000	-57.38	PASS
Band41	20MHz	QPSK	39750	1RB#0	20000~27000	-53.69	PASS
Band41	20MHz	QPSK	40620	1RB#0	30~1000	-60.83	PASS
Band41	20MHz	QPSK	40620	1RB#0	1000~10000	-48.75	PASS
Band41	20MHz	QPSK	40620	1RB#0	10000~20000	-54.27	PASS
Band41	20MHz	QPSK	40620	1RB#0	20000~27000	-53.98	PASS
Band41	20MHz	QPSK	41490	1RB#0	30~1000	-55.49	PASS
Band41	20MHz	QPSK	41490	1RB#0	1000~10000	-45.46	PASS
Band41	20MHz	QPSK	41490	1RB#0	10000~20000	-56.03	PASS
Band41	20MHz	QPSK	41490	1RB#0	20000~27000	-52.97	PASS

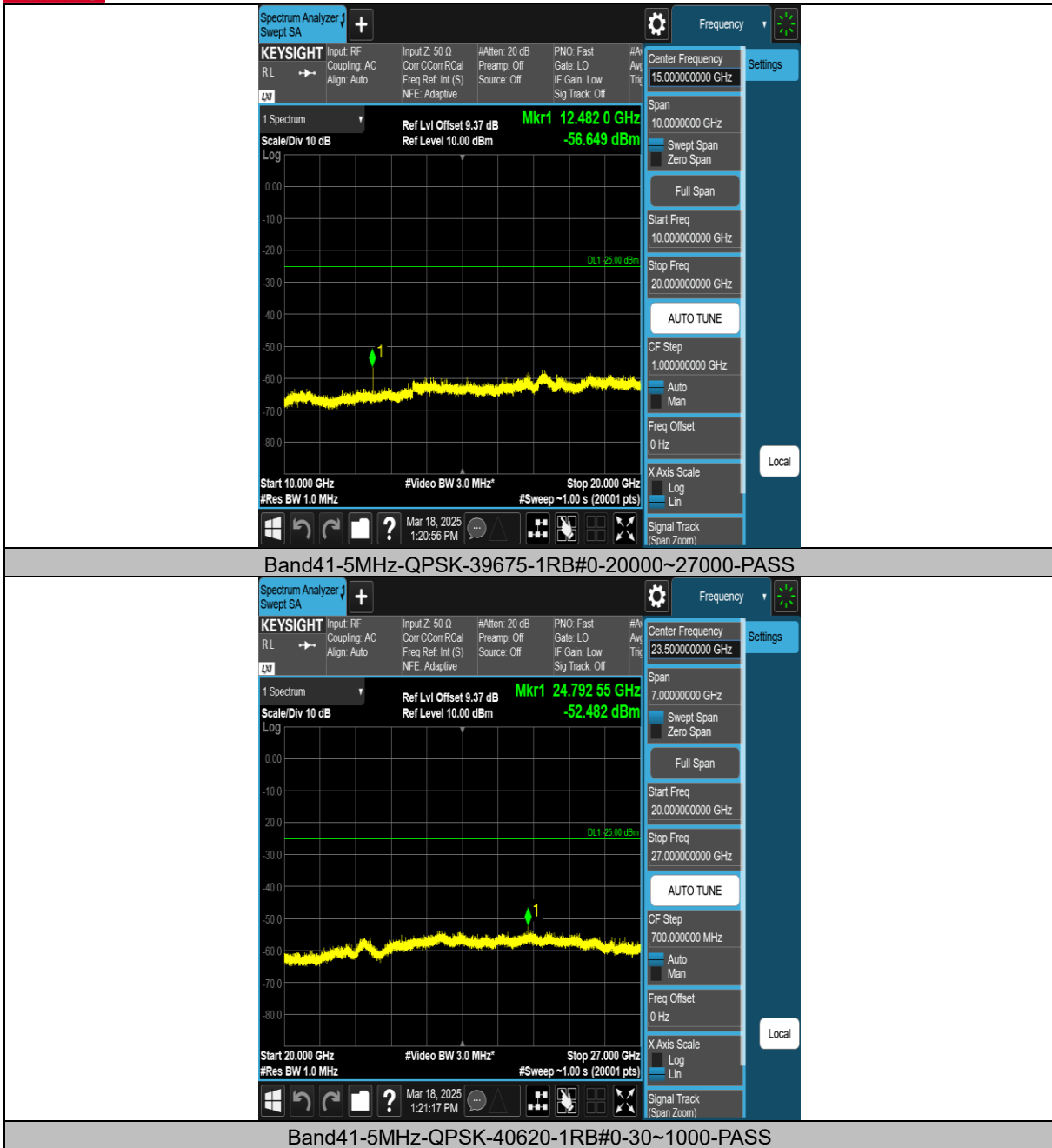


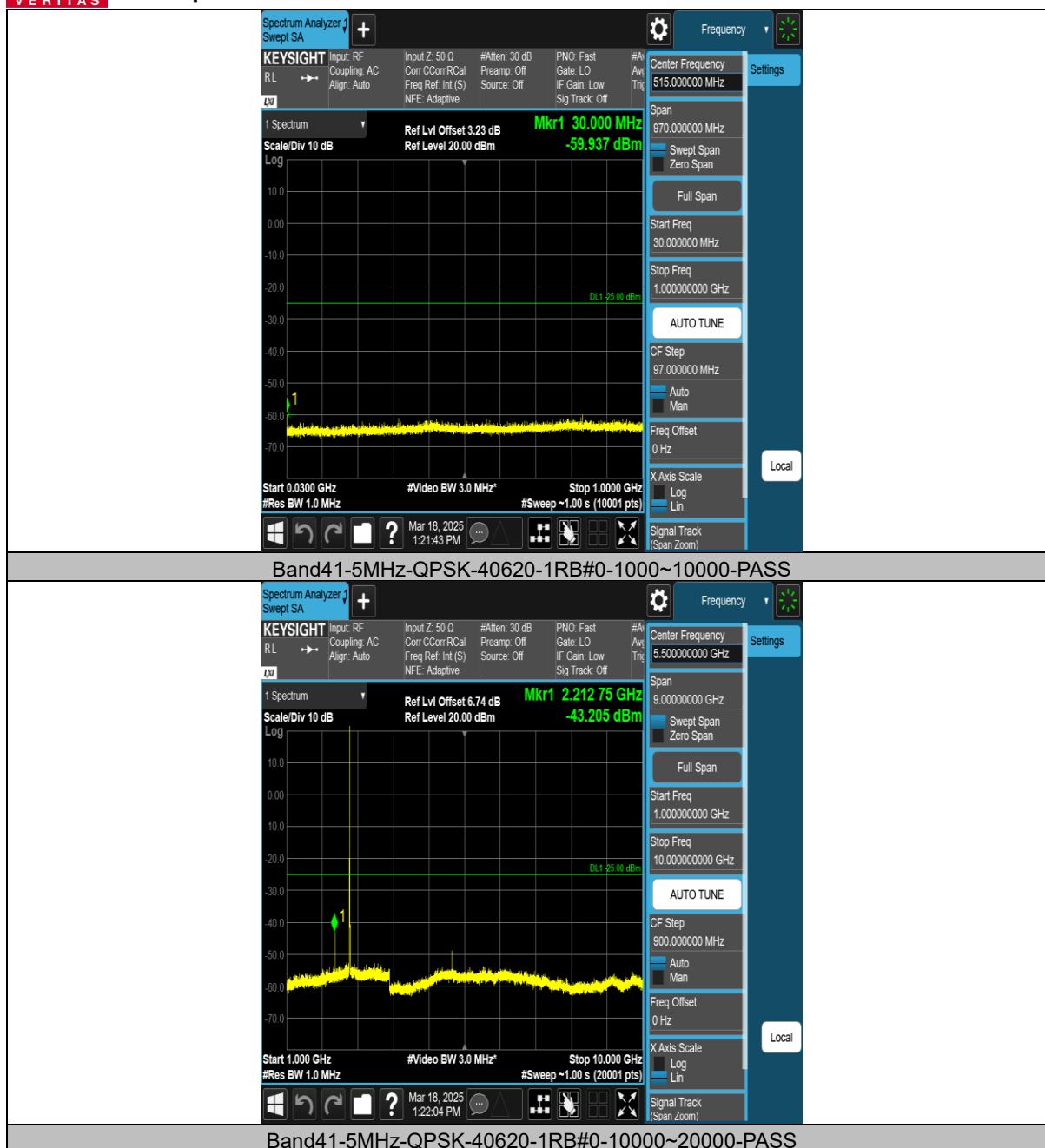
Test Graphs

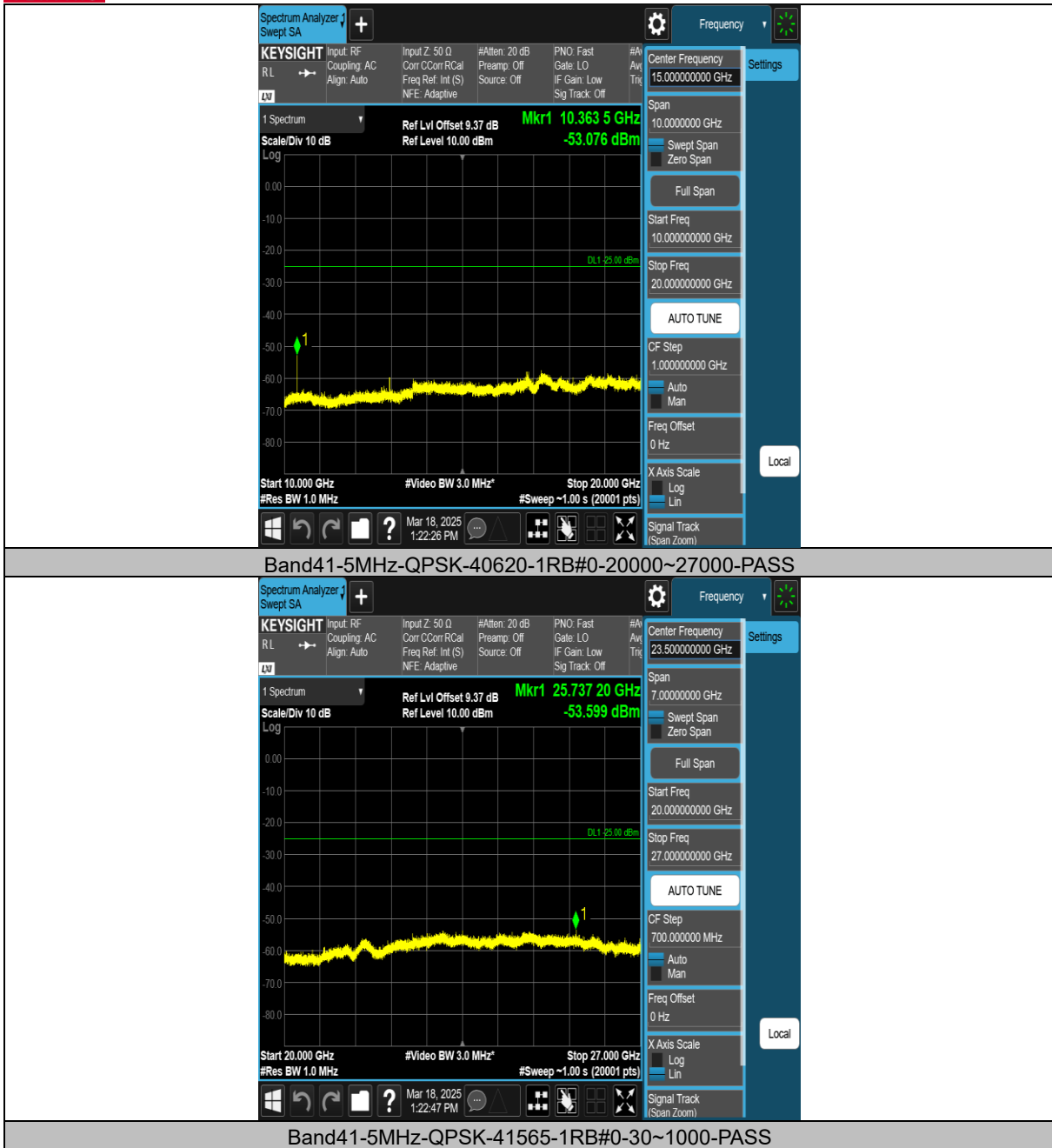


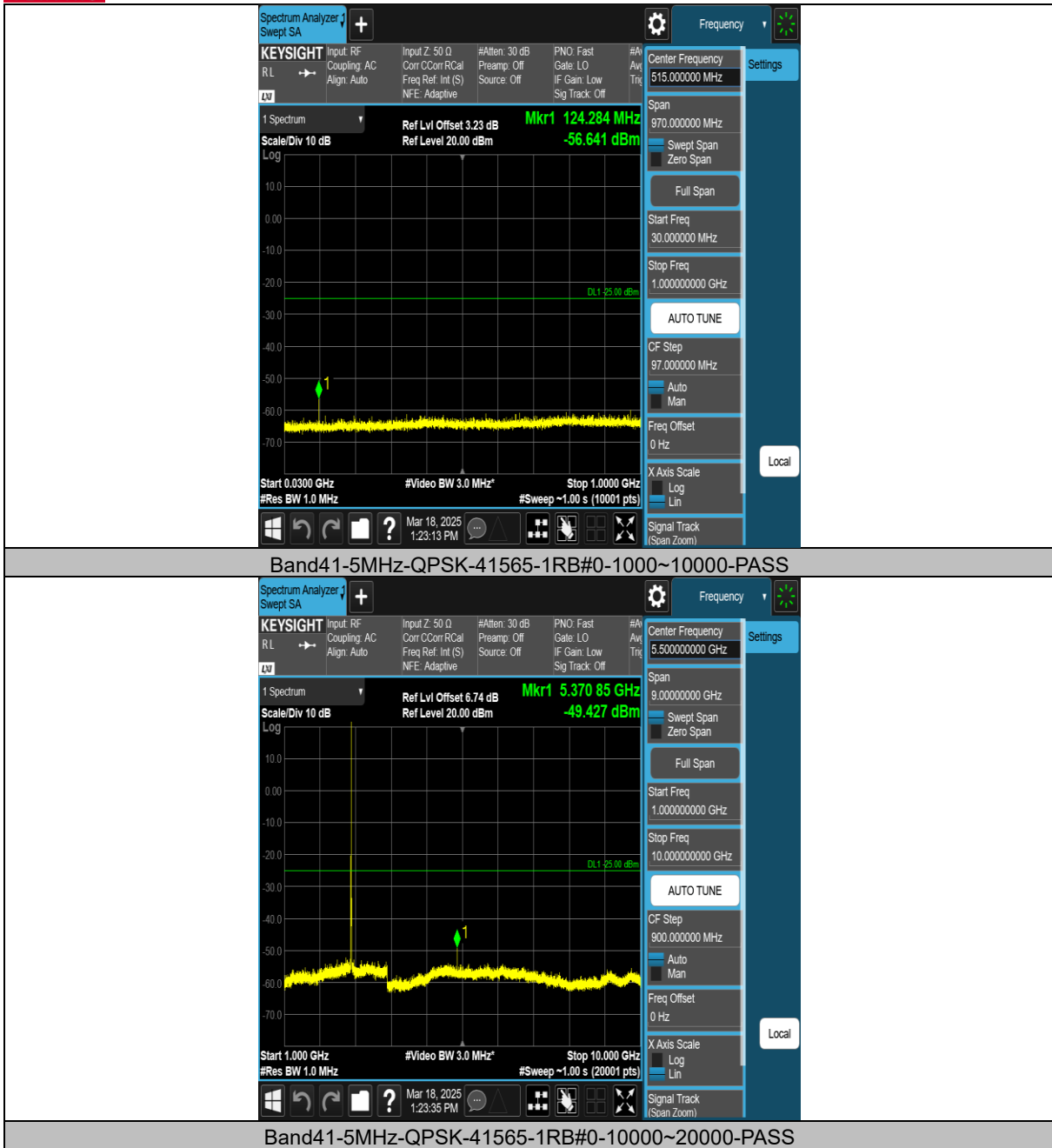


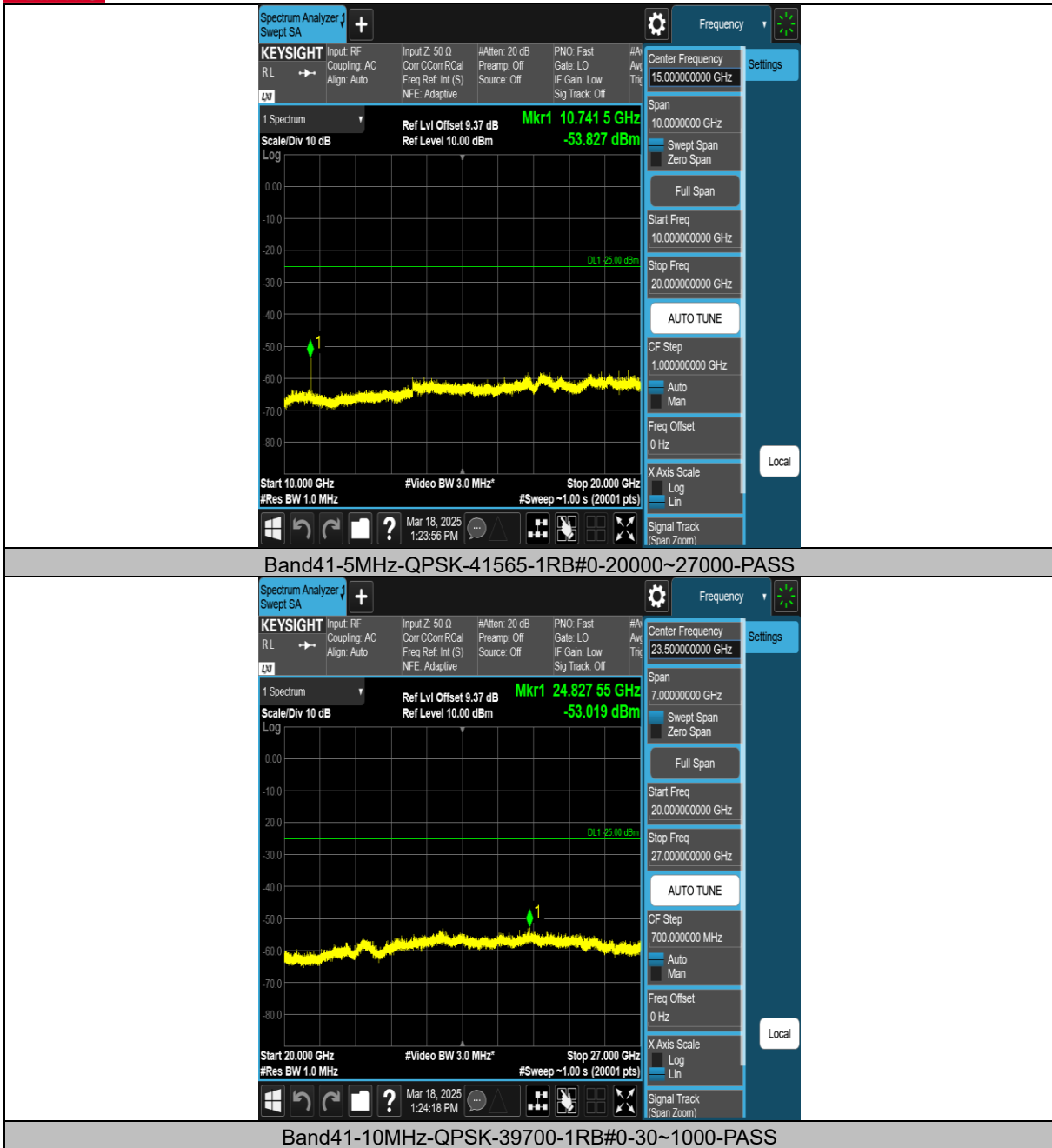
BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF04





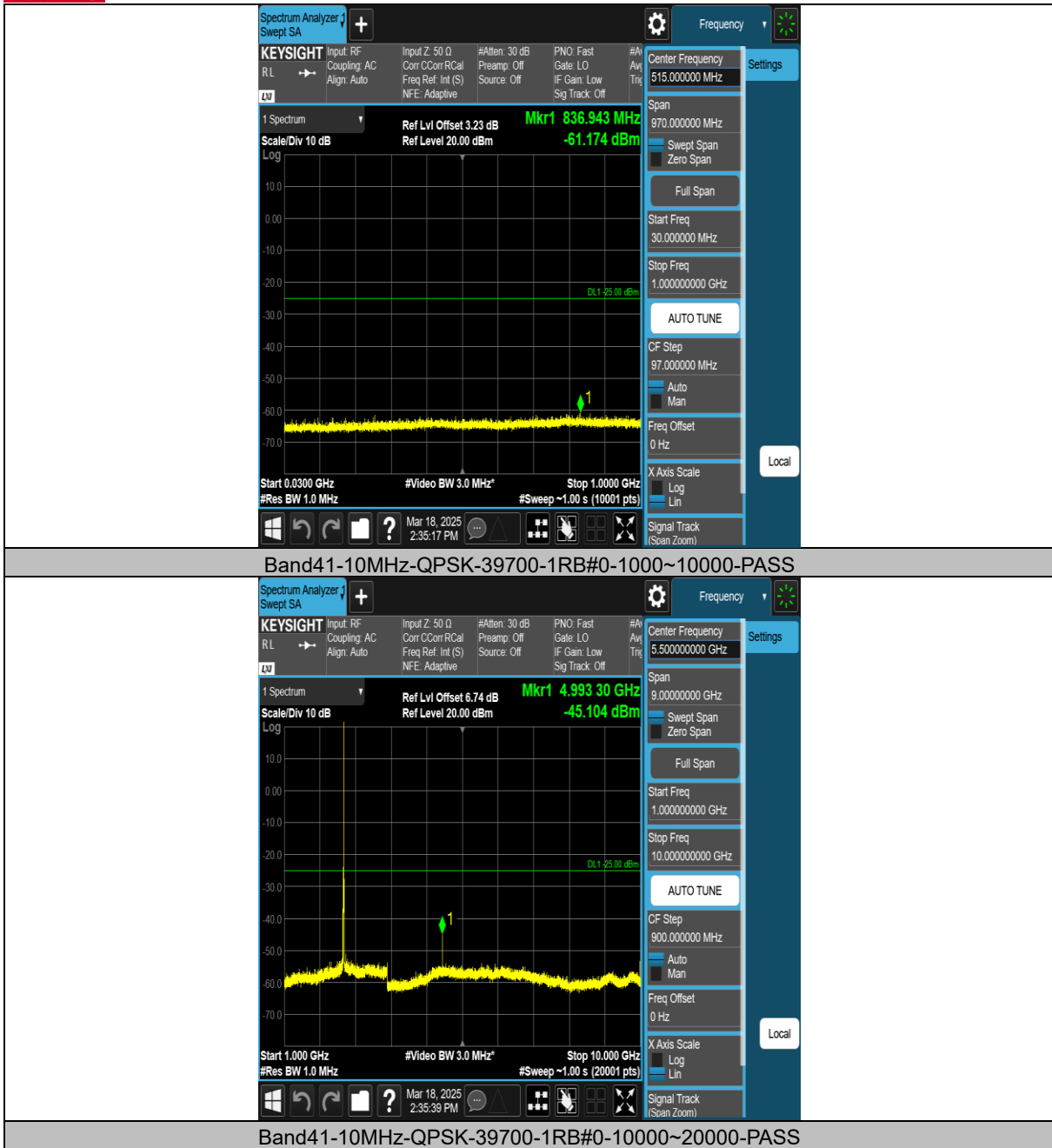


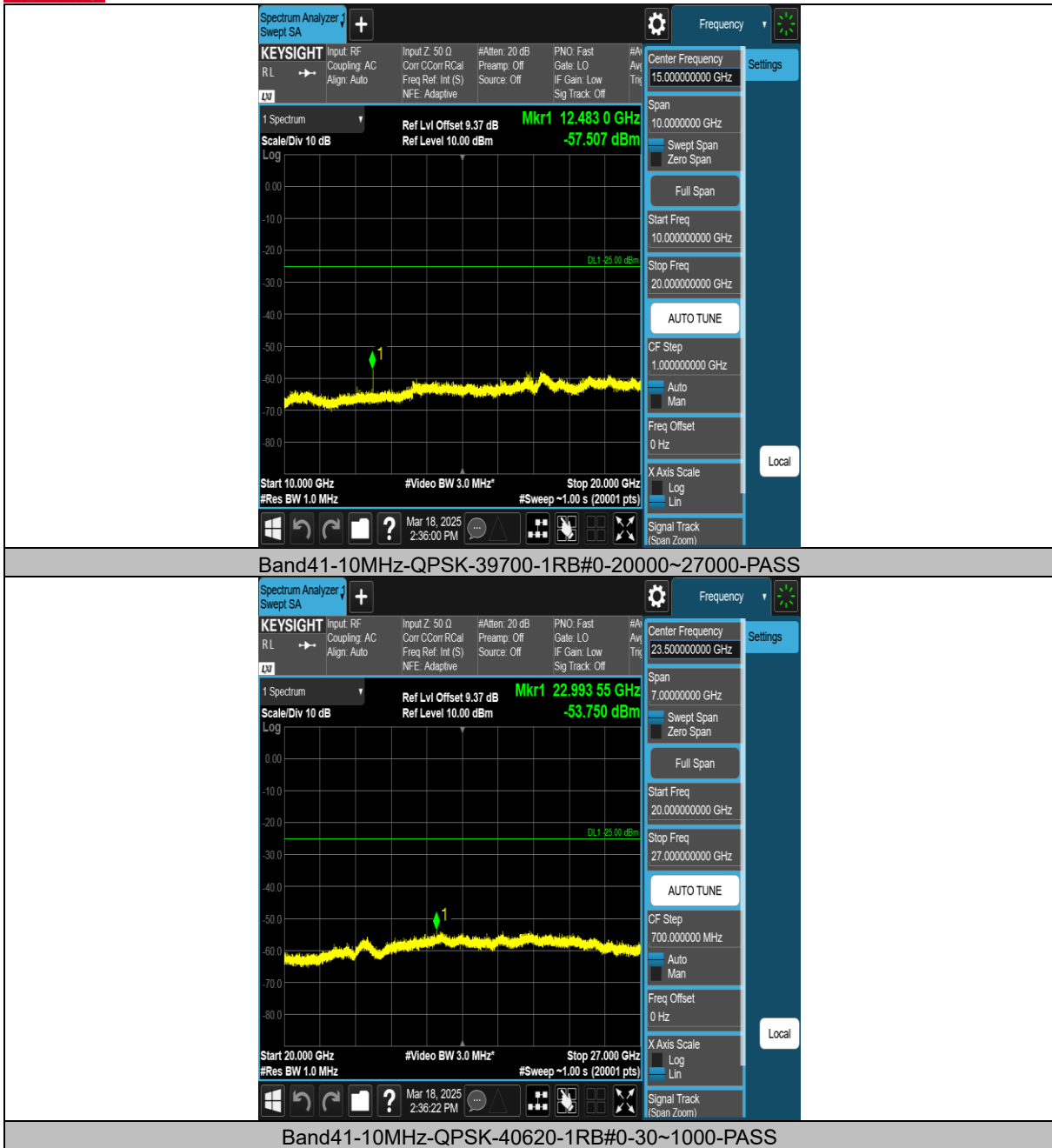


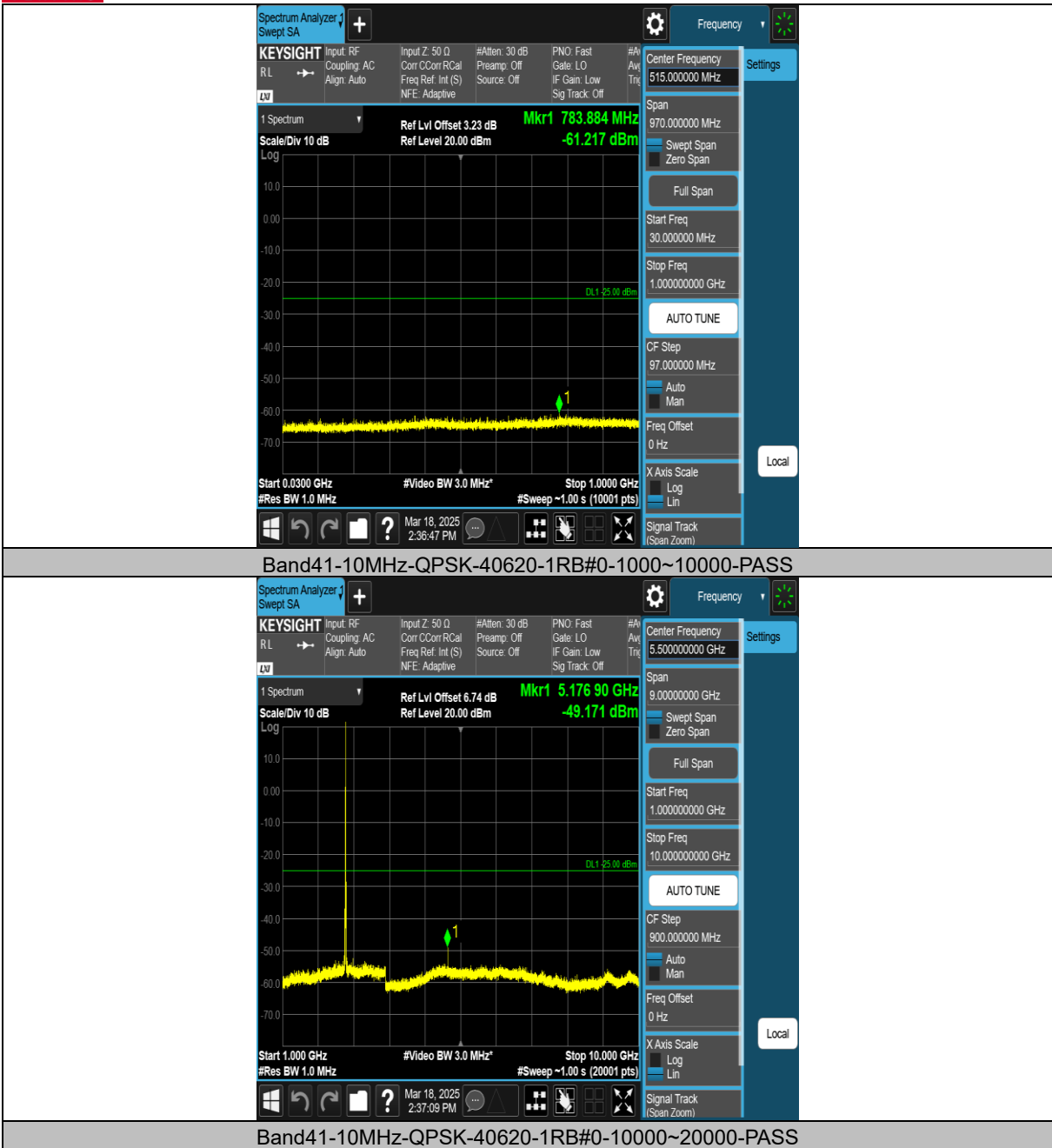


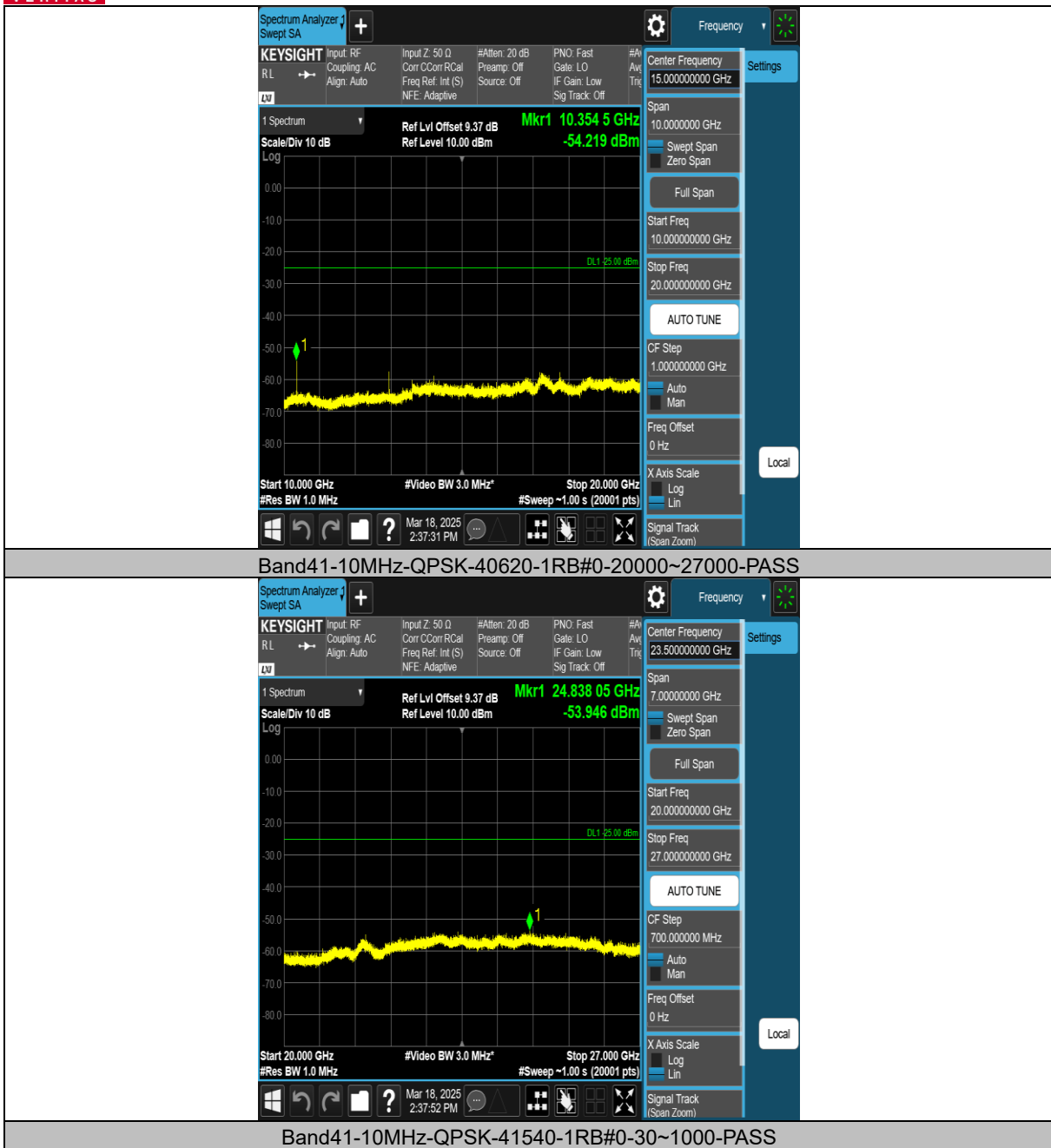


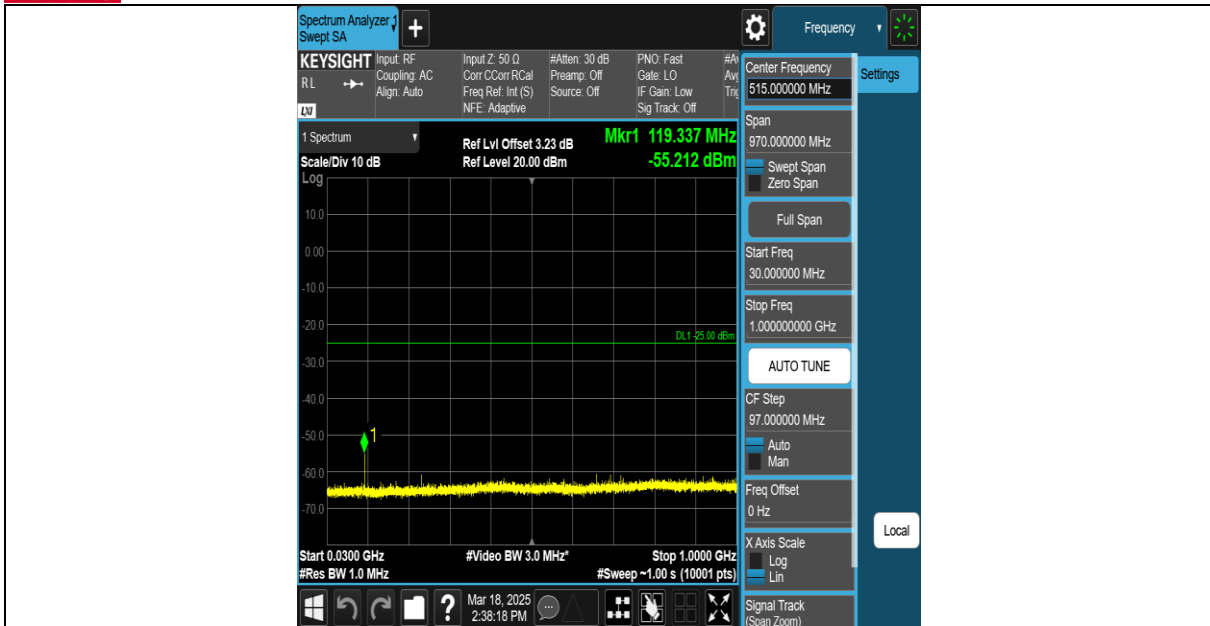
BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF04



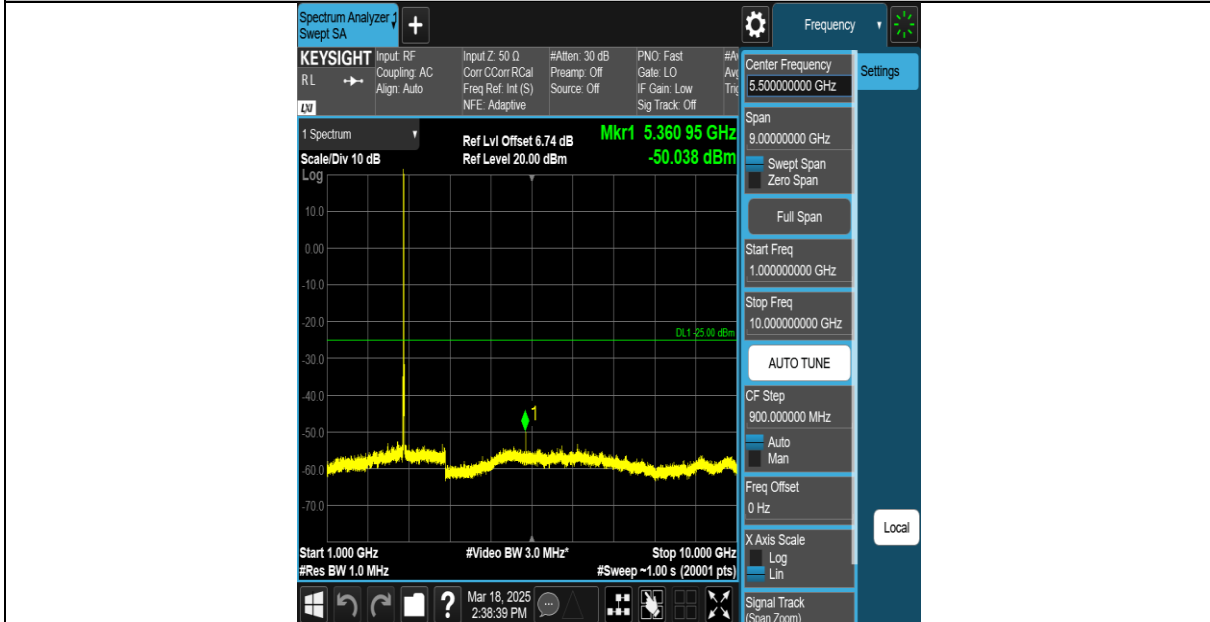




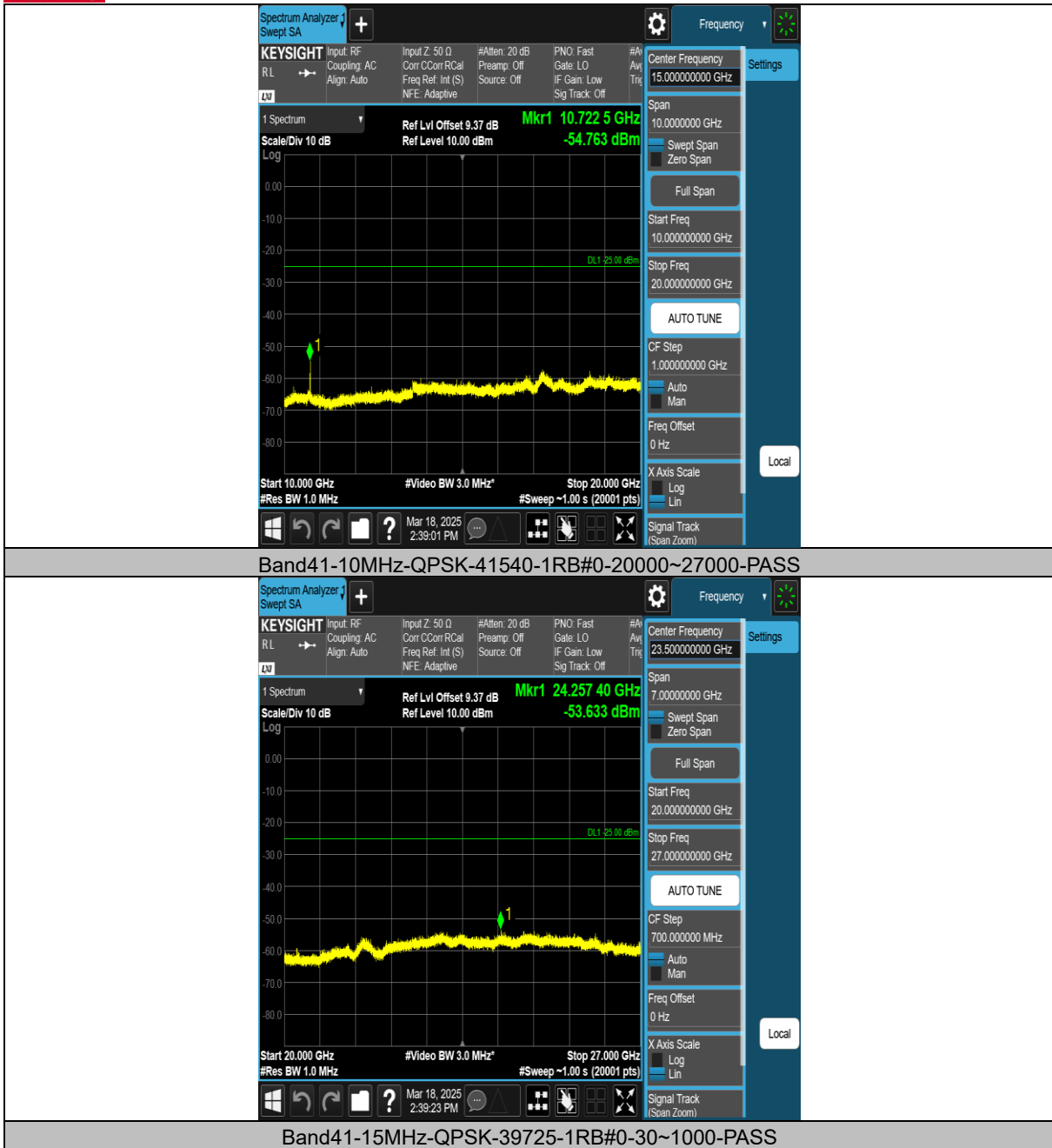


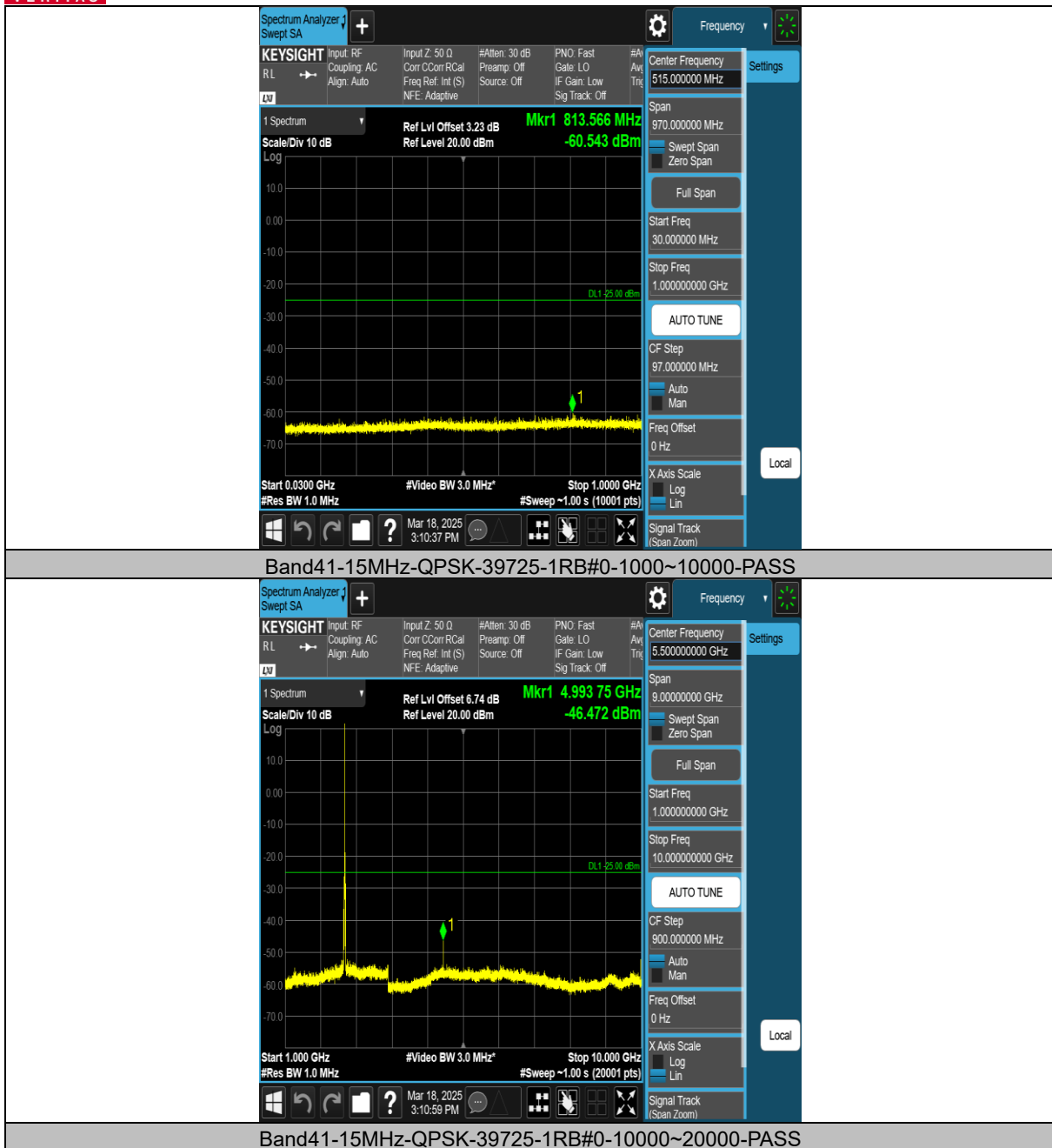


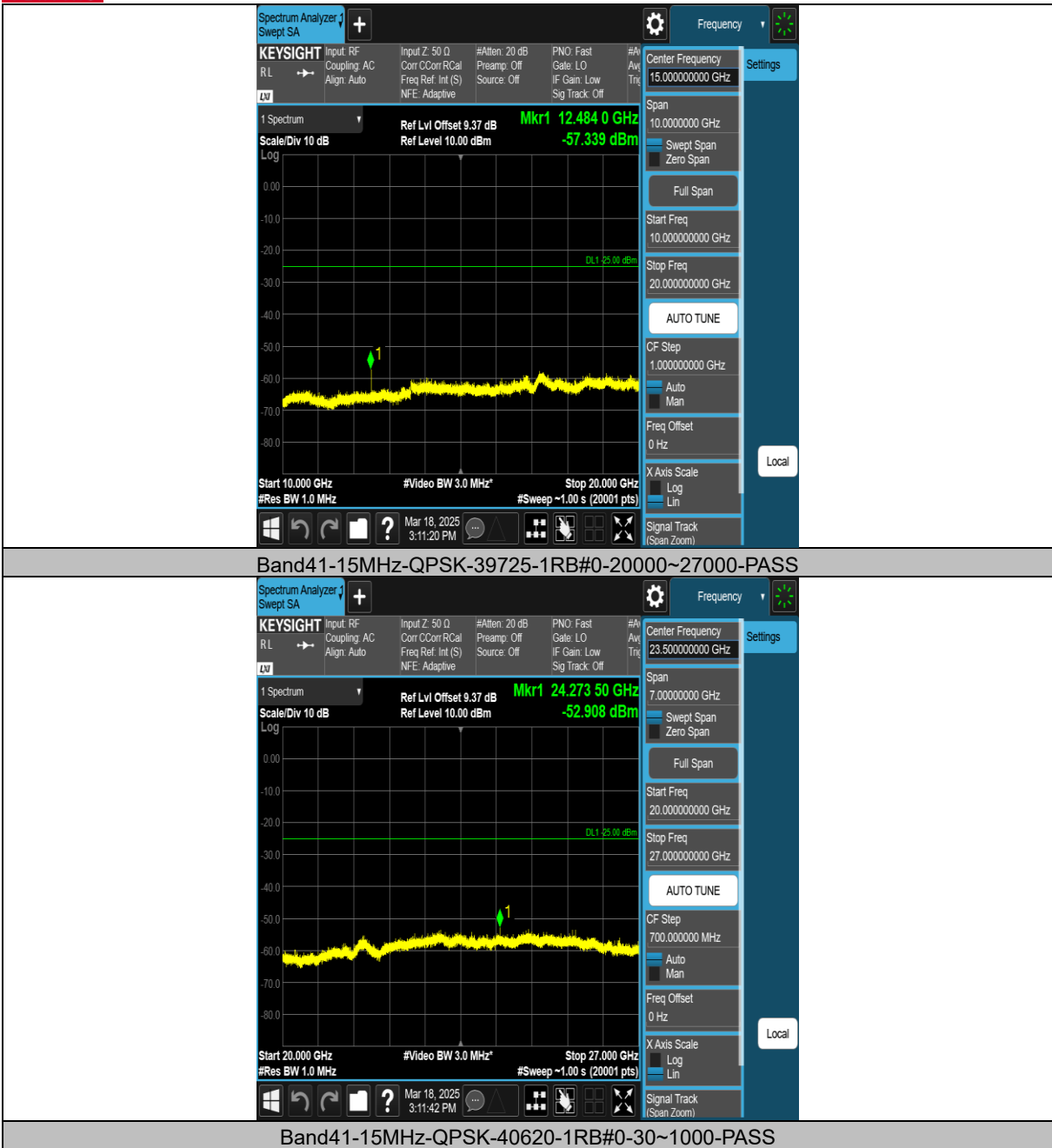
Band41-10MHz-QPSK-41540-1RB#0-1000~10000-PASS

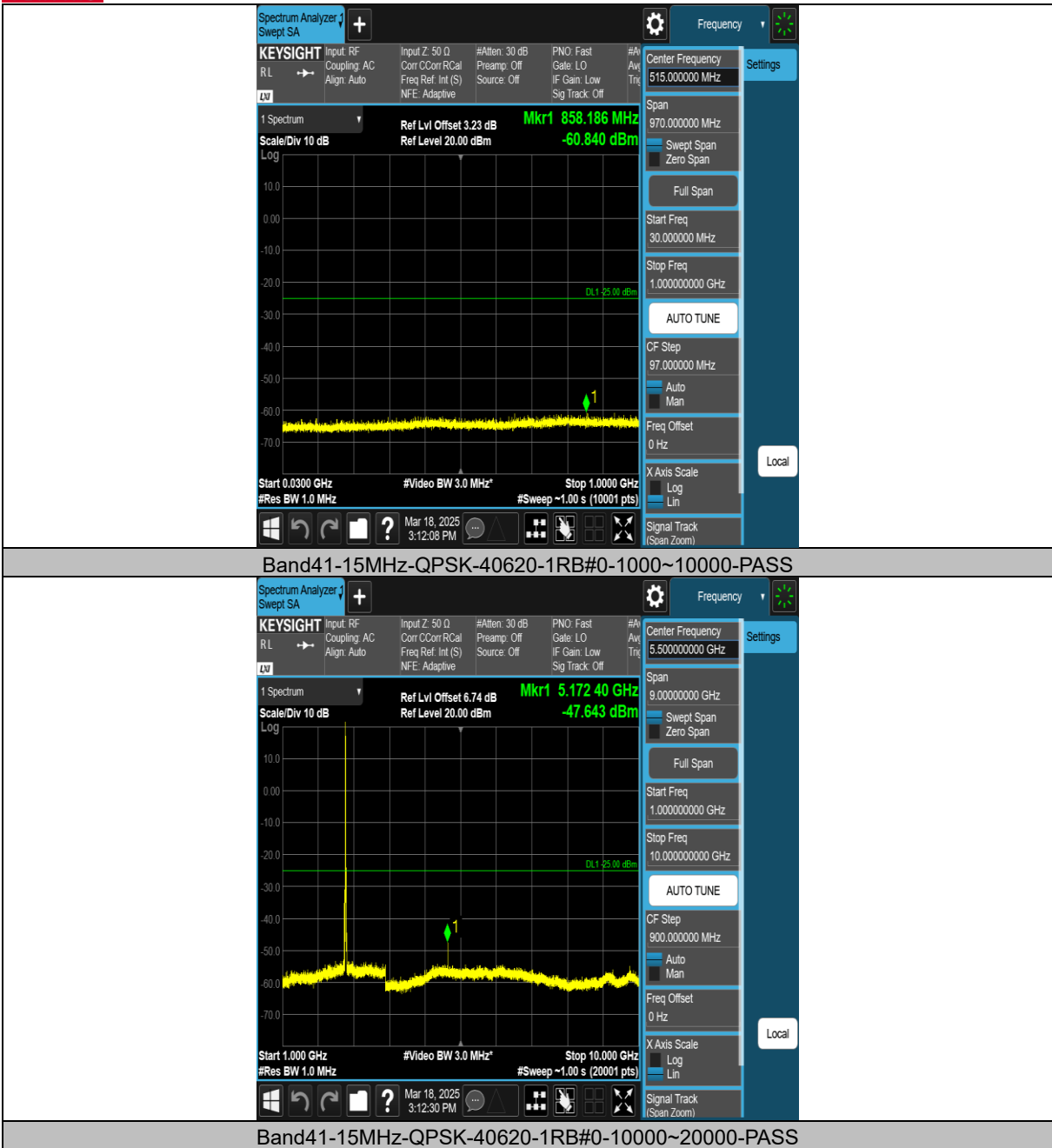


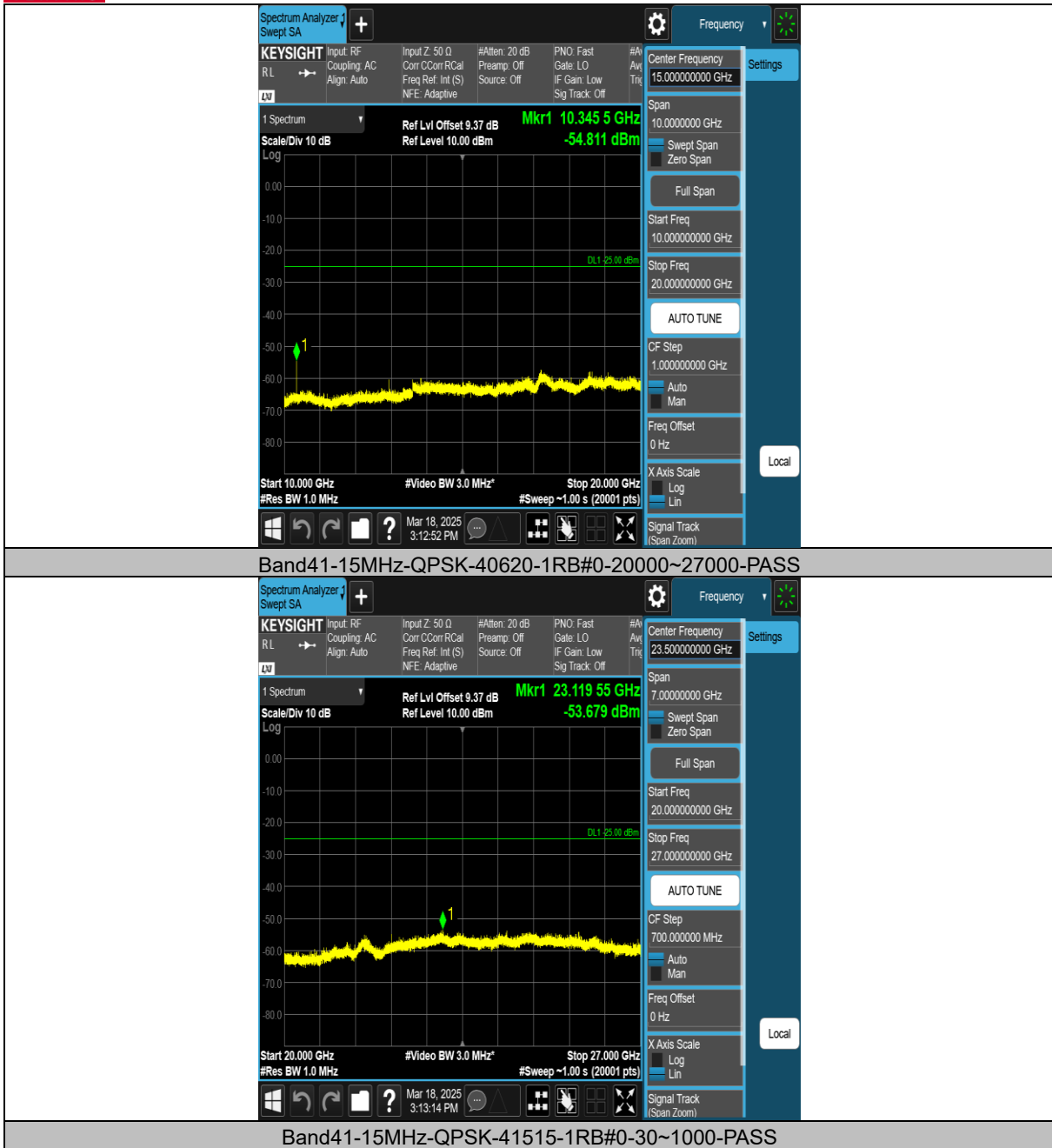
Band41-10MHz-QPSK-41540-1RB#0-10000~20000-PASS

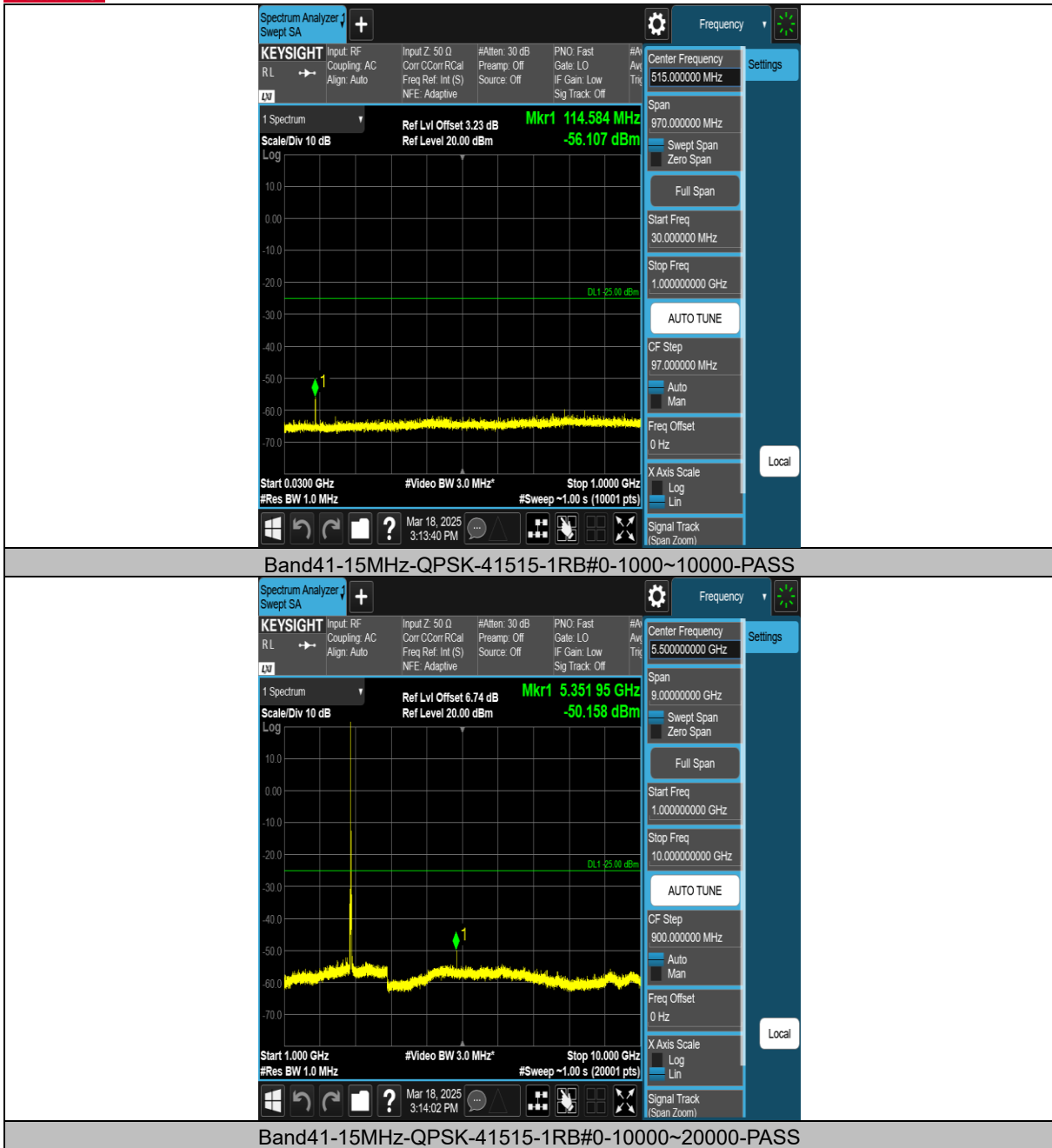


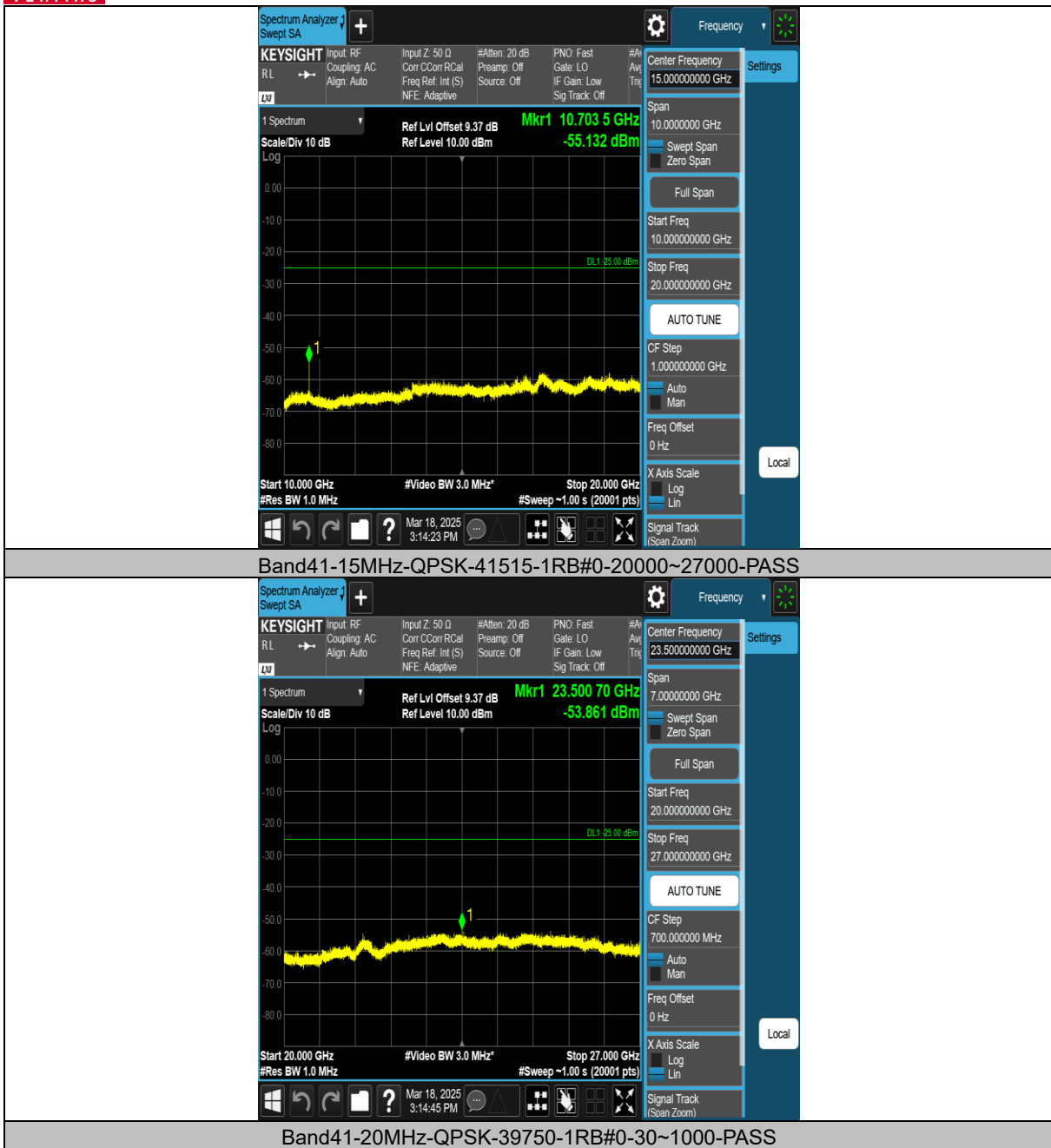


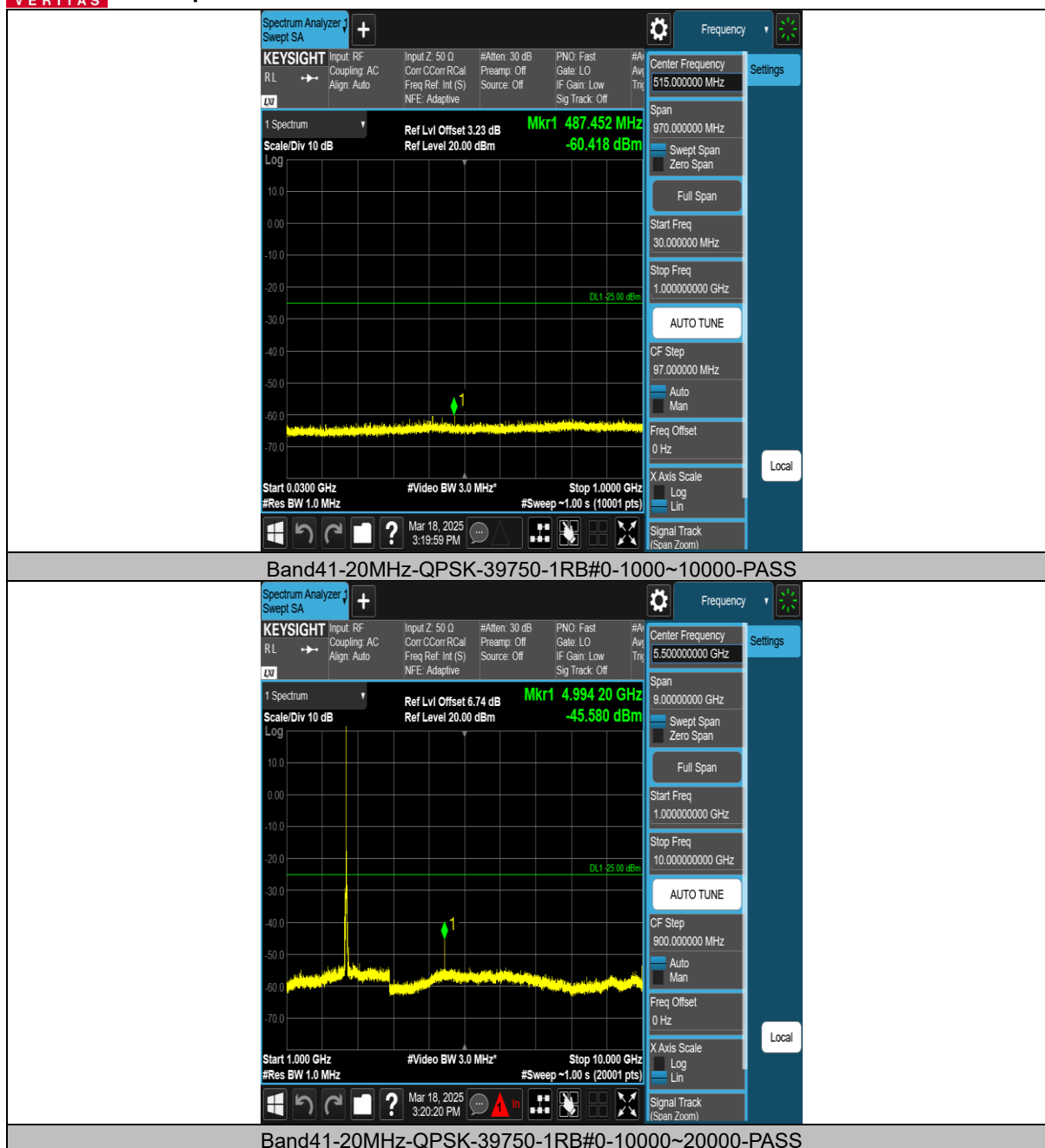


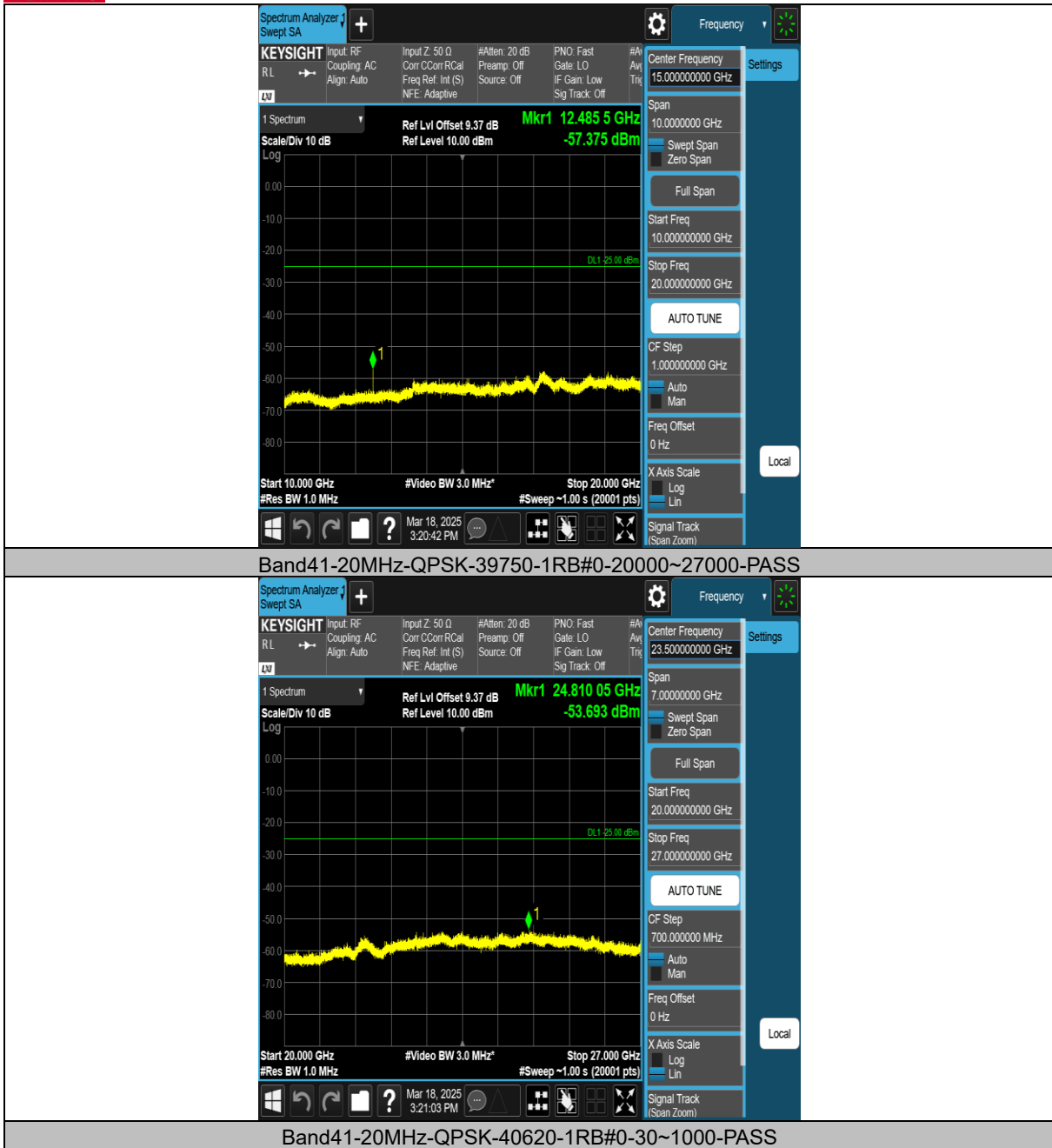


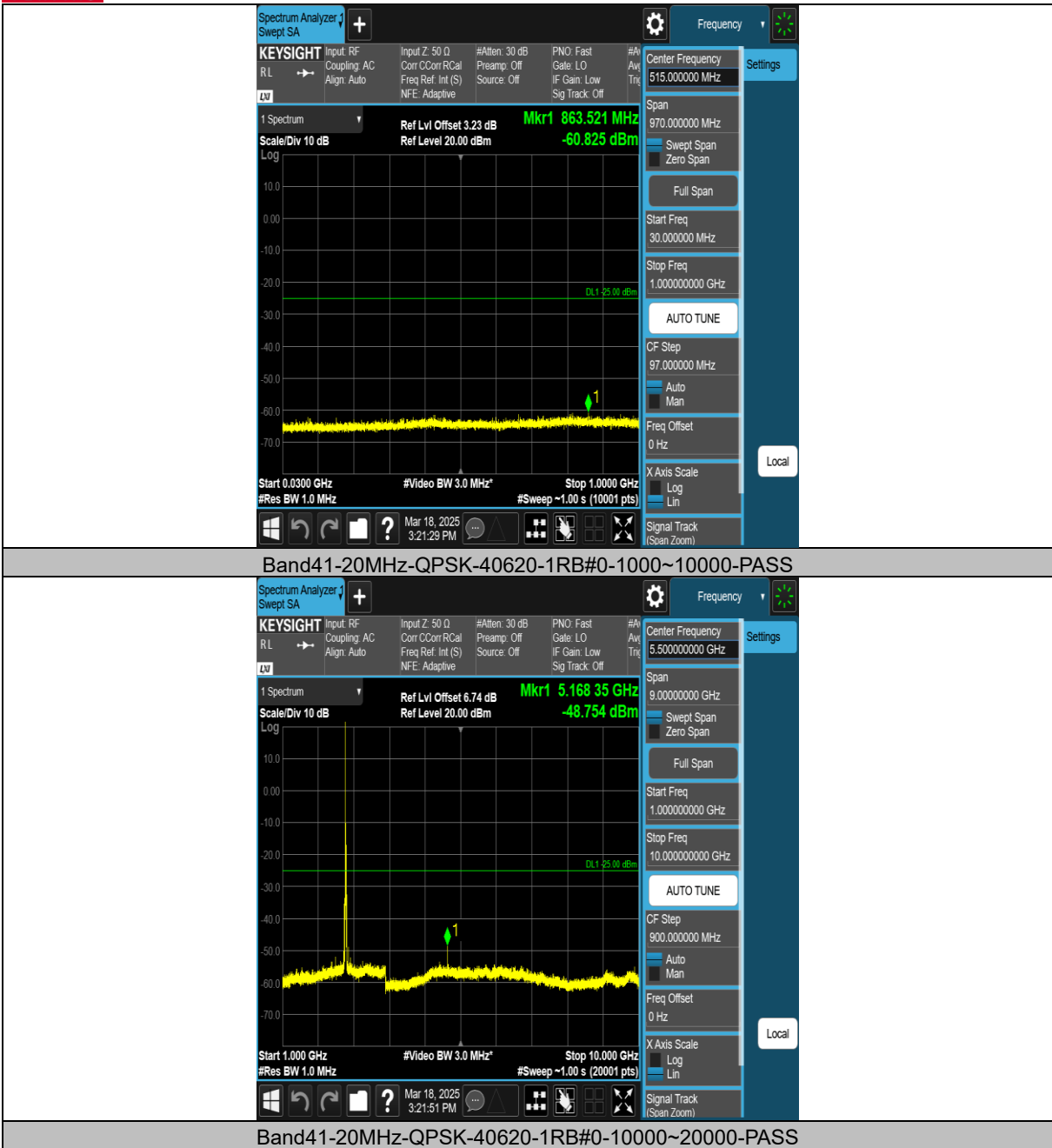


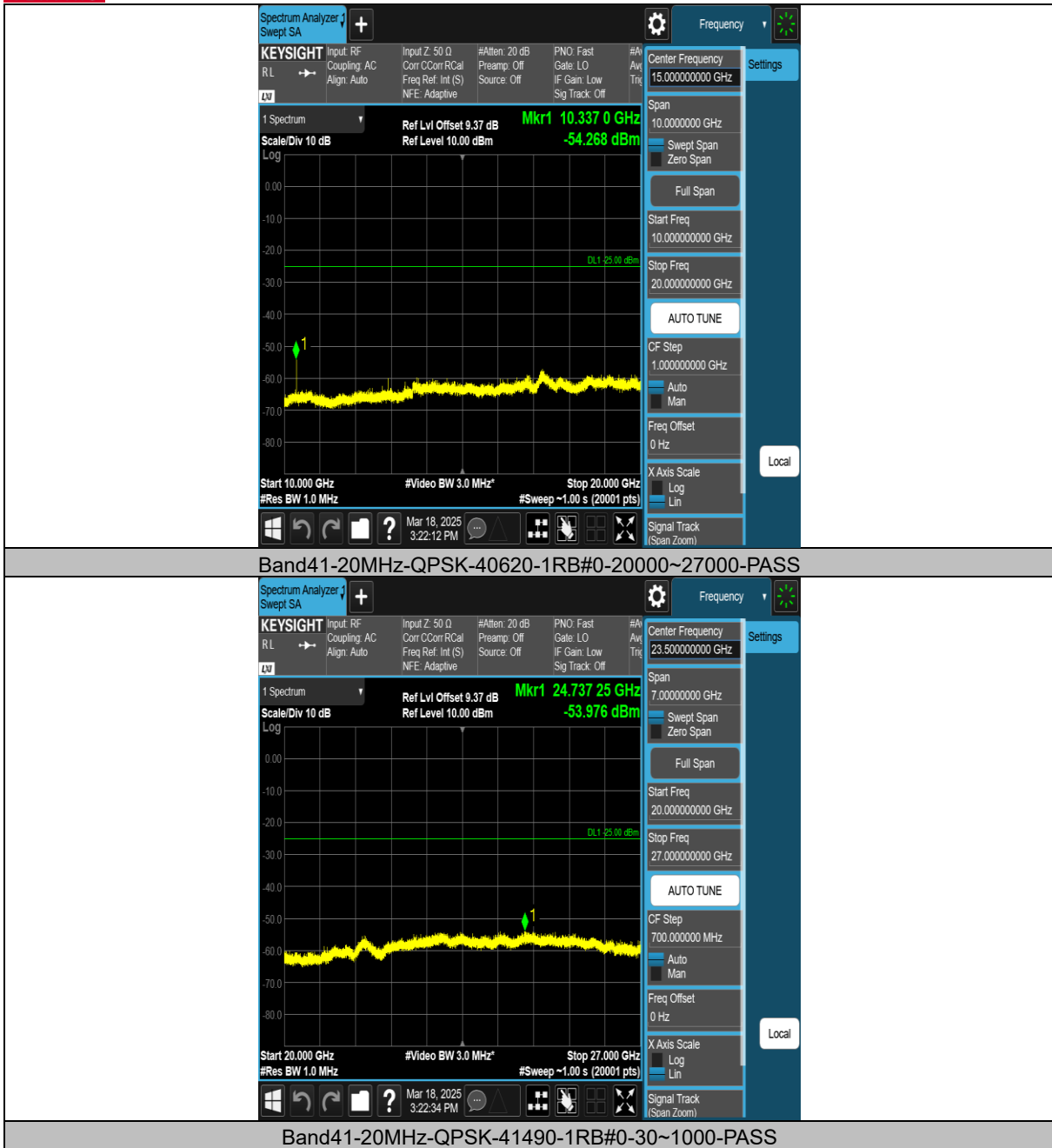


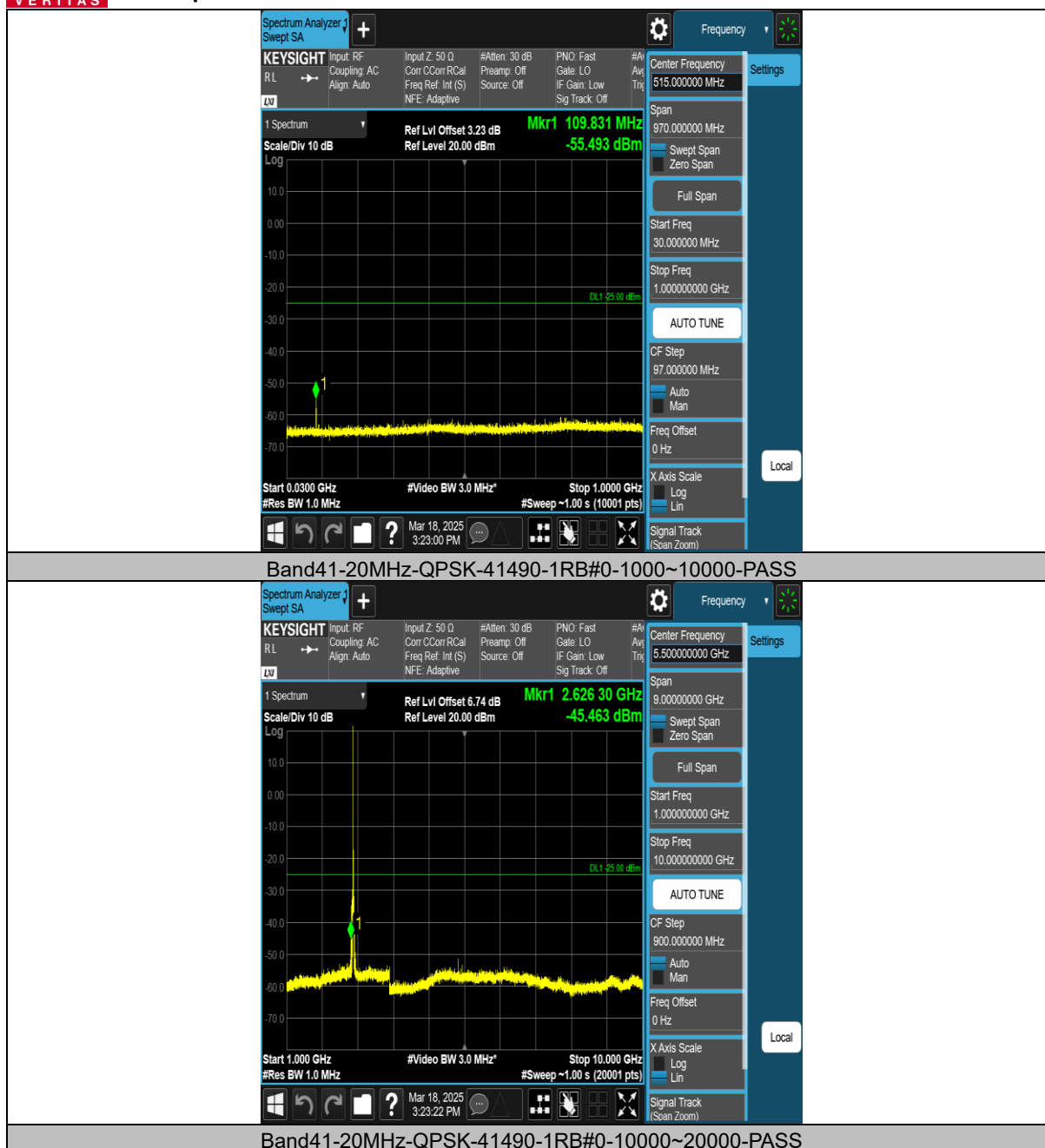






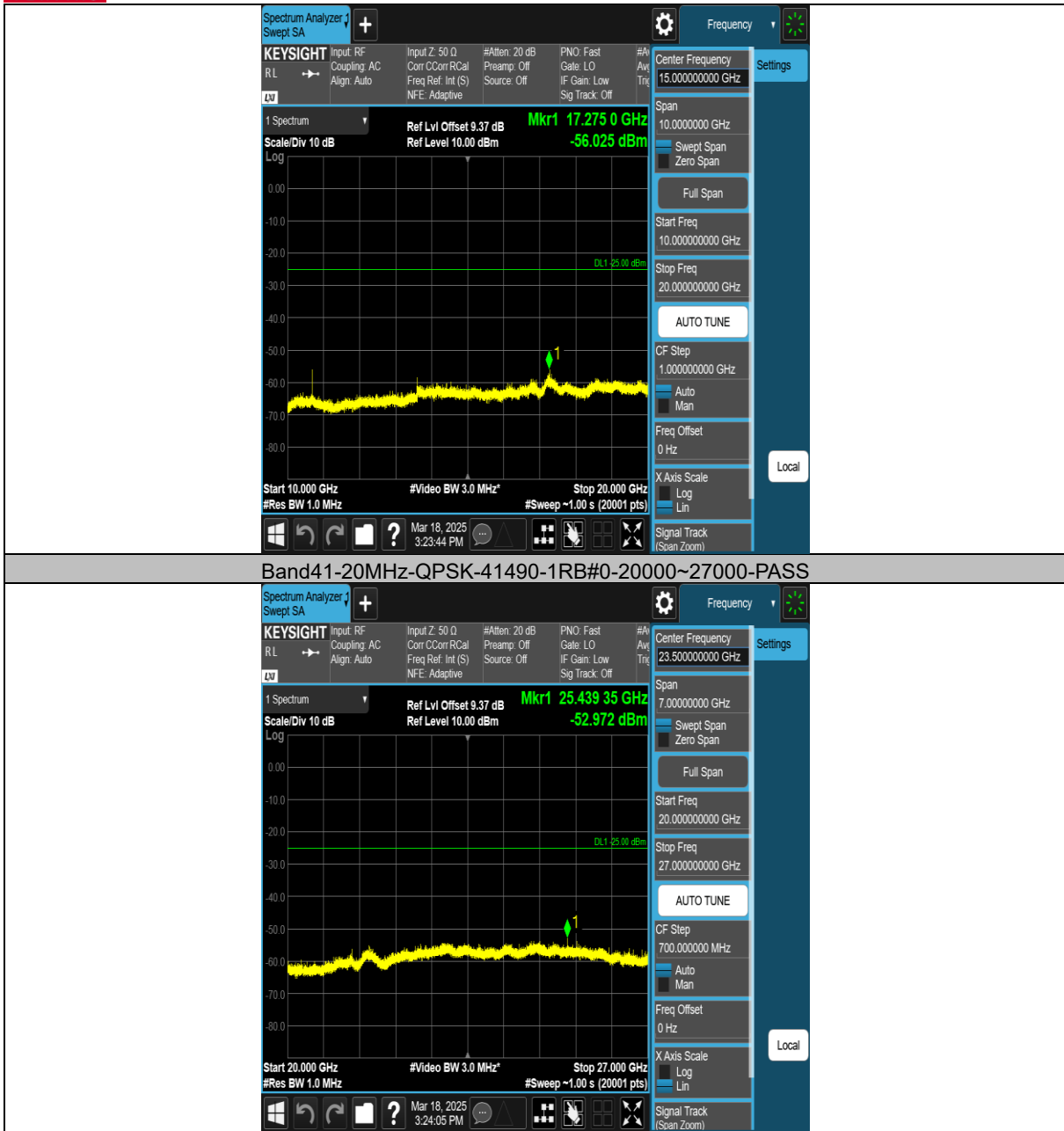








BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF04





APPENDIX : FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4 1	20MHz	QPSK	39750	100RB# 0	VN	NT	- 4979.2 4	- 1.9869 26	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB# 0	VL	NT	- 4976.9 2	- 1.9860 02	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB# 0	VH	NT	- 4974.9 5	- 1.9852 17	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	VN	NT	- 4973.5 8	- 1.9180 80	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	VL	NT	- 4978.6 2	- 1.9200 22	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	VH	NT	- 4981.7 1	- 1.9212 15	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB# 0	VN	NT	- 4979.4 0	- 1.8579 85	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB# 0	VL	NT	- 4985.9 9	- 1.8604 45	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB# 0	VH	NT	- 4980.6 3	- 1.8584 45	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4 1	20MHz	QPSK	39750	100RB# 0	NV	-30	- 3011.46	- 1.2017 00	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB# 0	NV	-20	- 3018.8 7	- 1.2046 58	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB# 0	NV	-10	- 3014.2 2	- 1.2028 01	±2.5	PASS



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Band4 1	20MHz	QPSK	39750	100RB# 0	NV	0	- 3018.8 9	- 1.2046 64	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB# 0	NV	10	- 3023.2 7	- 1.2064 12	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB# 0	NV	20	- 3029.0 2	- 1.2087 09	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB# 0	NV	30	- 3009.4 0	- 1.2008 78	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB# 0	NV	40	- 3010.7 6	- 1.2014 19	±2.5	PASS
Band4 1	20MHz	QPSK	39750	100RB# 0	NV	50	- 3024.8 4	- 1.2070 37	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	NV	-30	- 3014.1 5	- 1.1624 18	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	NV	-20	- 3028.8 3	- 1.1680 80	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	NV	-10	- 3022.9 6	- 1.1658 15	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	NV	0	- 3013.2 1	- 1.1620 57	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	NV	10	- 3027.0 1	- 1.1673 79	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	NV	20	- 3017.4 9	- 1.1637 08	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	NV	30	- 3026.1 2	- 1.1670 33	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	NV	40	- 3016.2 3	- 1.1632 19	±2.5	PASS
Band4 1	20MHz	QPSK	40620	100RB# 0	NV	50	- 3025.5 9	- 1.1668 29	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB# 0	NV	-30	- 3026.4 1	- 1.1292 57	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB# 0	NV	-20	- 3027.9 6	- 1.1298 34	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB# 0	NV	-10	- 3029.7 5	- 1.1305 03	±2.5	PASS
Band4	20MHz	QPSK	41490	100RB#	NV	0	-	-	±2.5	PASS

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1				0			3022.5 4	1.1278 14		
Band4 1	20MHz	QPSK	41490	100RB# 0	NV	10	- 3009.7 3	- 1.1230 33	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB# 0	NV	20	- 3020.2 5	- 1.1269 57	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB# 0	NV	30	- 3023.0 9	- 1.1280 18	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB# 0	NV	40	- 3018.2 1	- 1.1261 97	±2.5	PASS
Band4 1	20MHz	QPSK	41490	100RB# 0	NV	50	- 3012.4 8	- 1.1240 59	±2.5	PASS



LTE B66(INCLUDING B4)

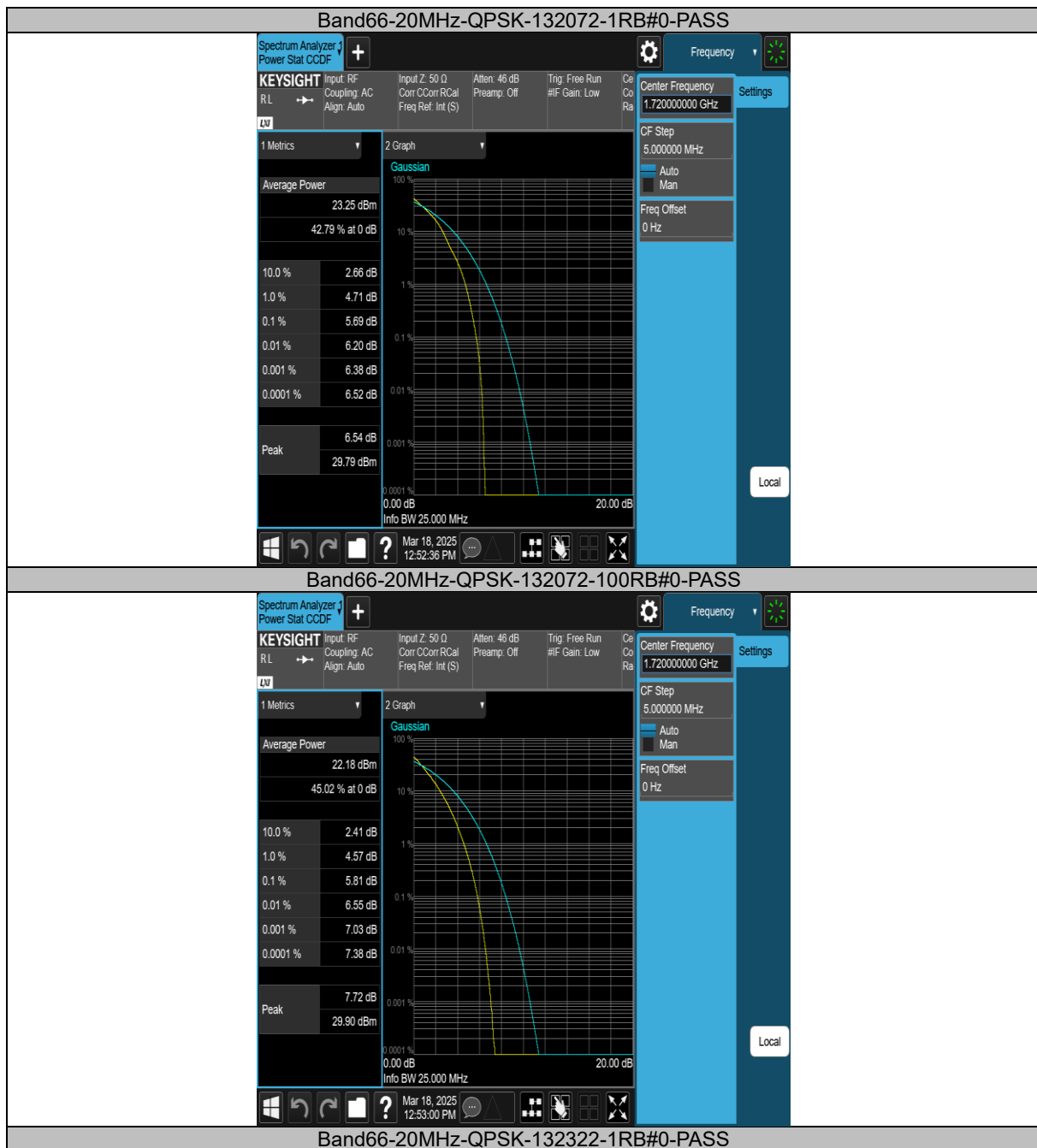
Appendix: Peak-to-Average Ratio(CCDF)

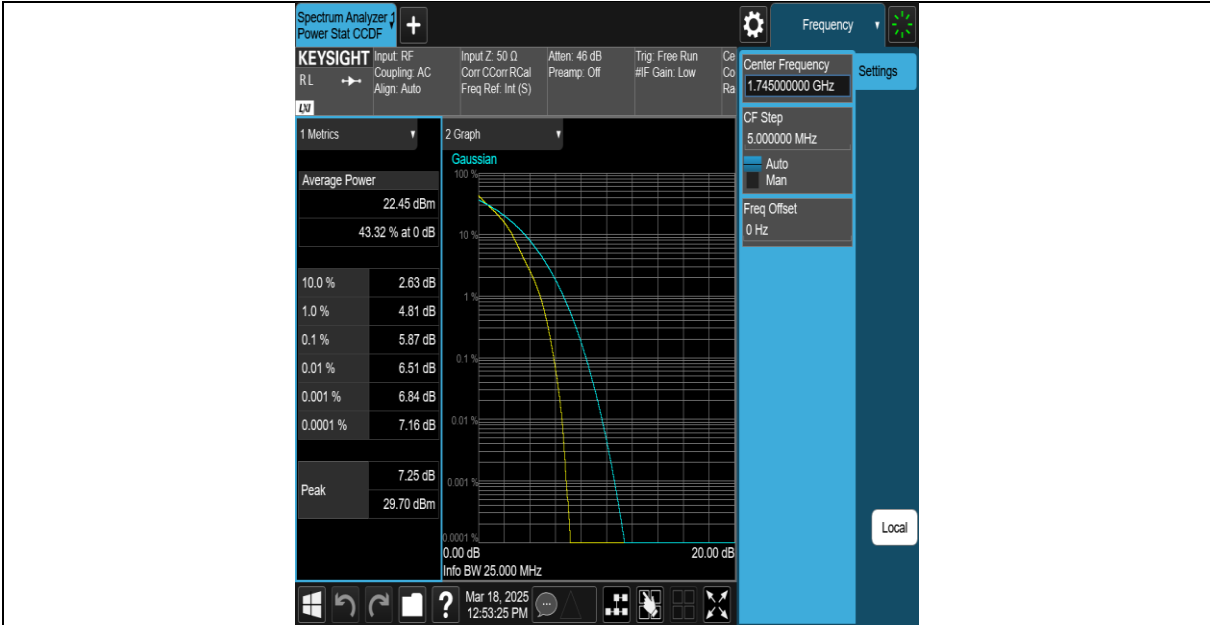
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	1RB#0	5.69	13	PASS
Band66	20MHz	QPSK	132072	100RB#0	5.81	13	PASS
Band66	20MHz	QPSK	132322	1RB#0	5.87	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.82	13	PASS
Band66	20MHz	QPSK	132572	1RB#0	5.49	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.85	13	PASS
Band66	20MHz	16QAM	132072	1RB#0	6.42	13	PASS
Band66	20MHz	16QAM	132072	27RB#0	6.66	13	PASS
Band66	20MHz	16QAM	132322	1RB#0	6.32	13	PASS
Band66	20MHz	16QAM	132322	27RB#0	6.83	13	PASS
Band66	20MHz	16QAM	132572	1RB#0	6.20	13	PASS
Band66	20MHz	16QAM	132572	27RB#0	6.57	13	PASS

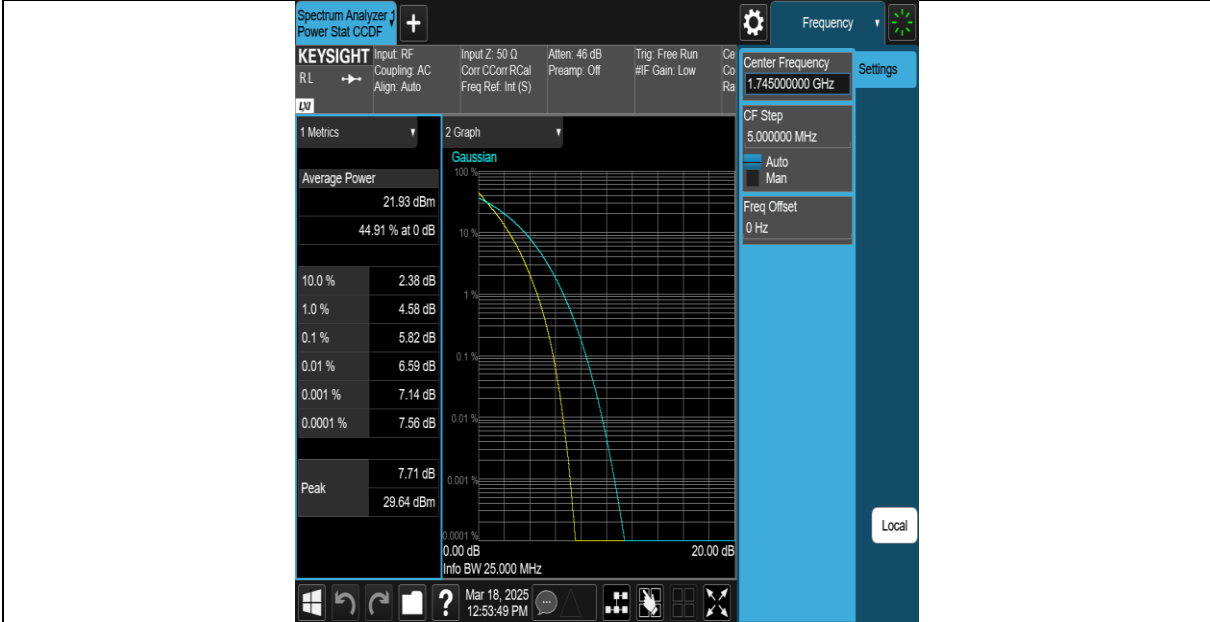


Test Graphs





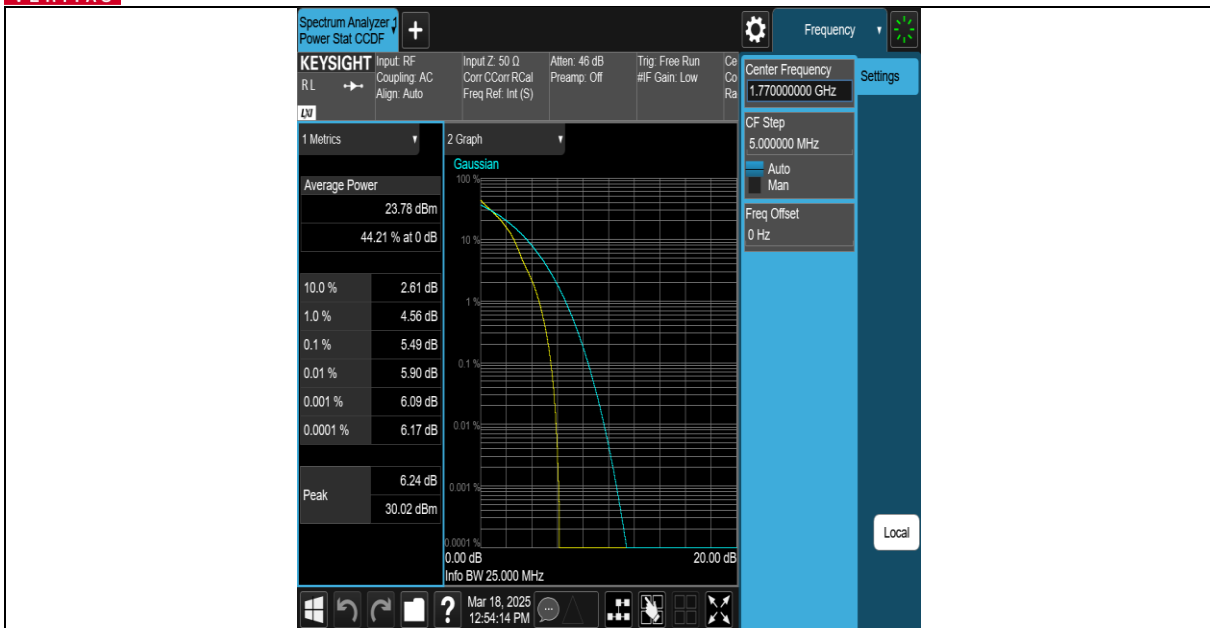
Band66-20MHz-QPSK-132322-100RB#0-PASS



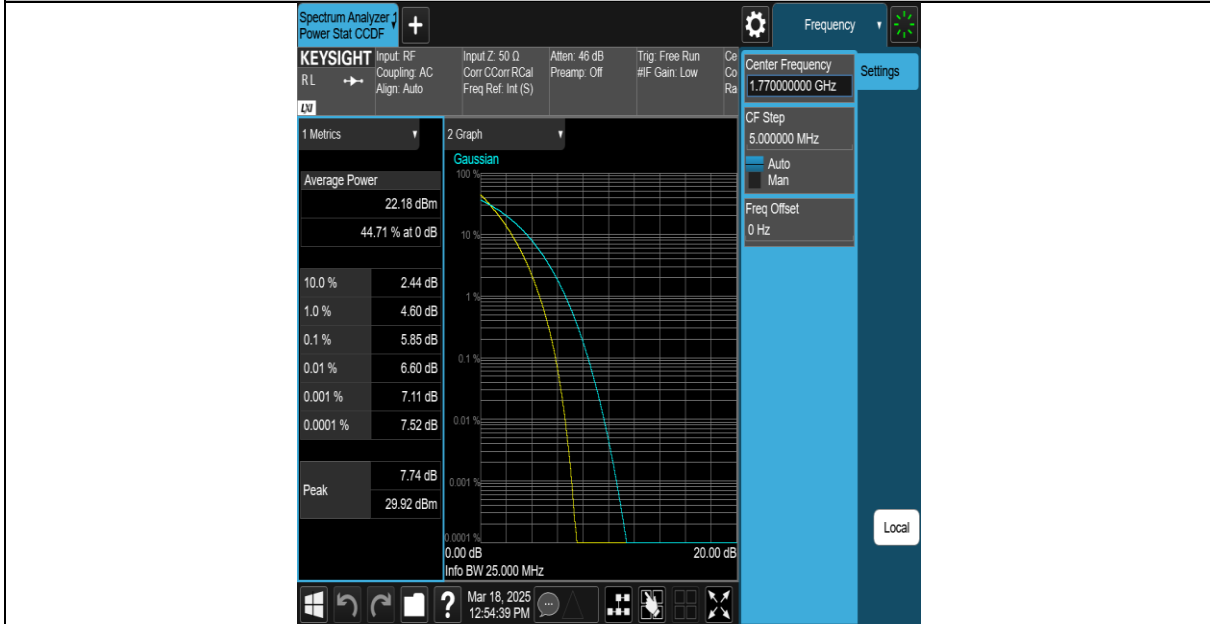
Band66-20MHz-QPSK-132572-1RB#0-PASS



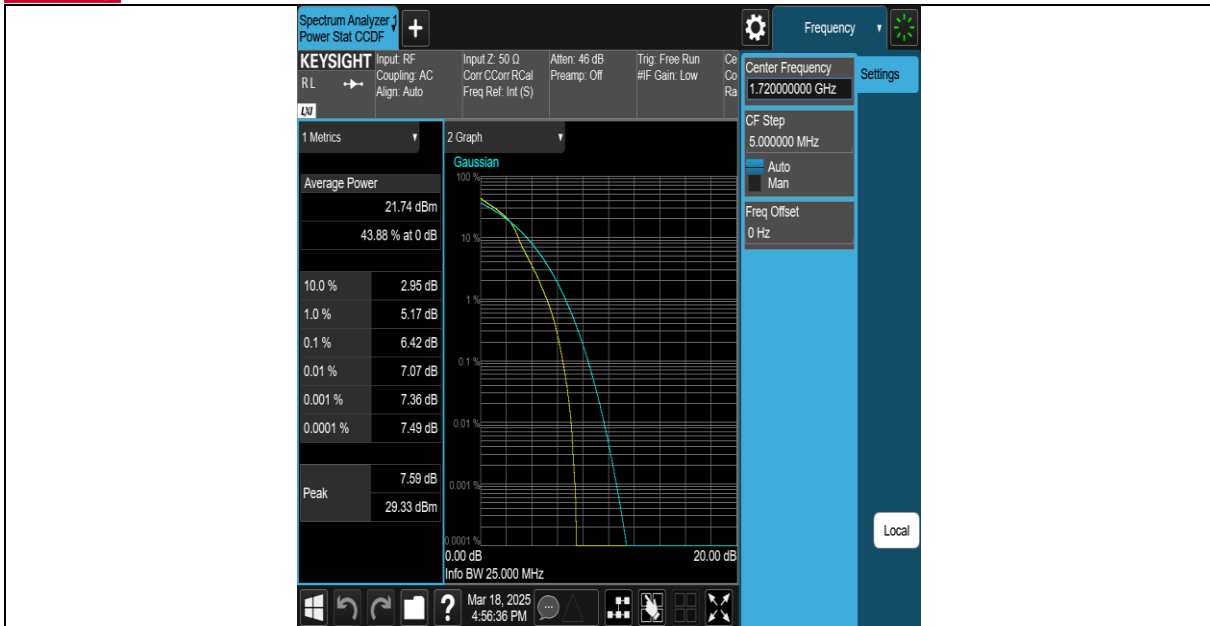
BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF04



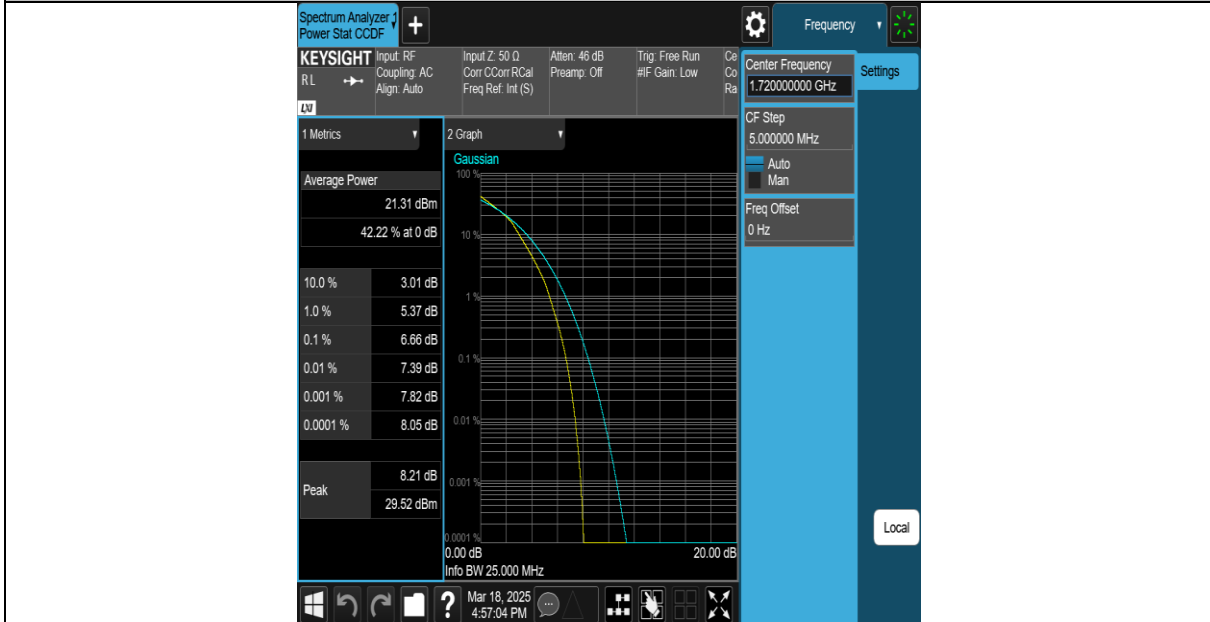
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Band66-20MHz-16QAM-132072-1RB#0-PASS



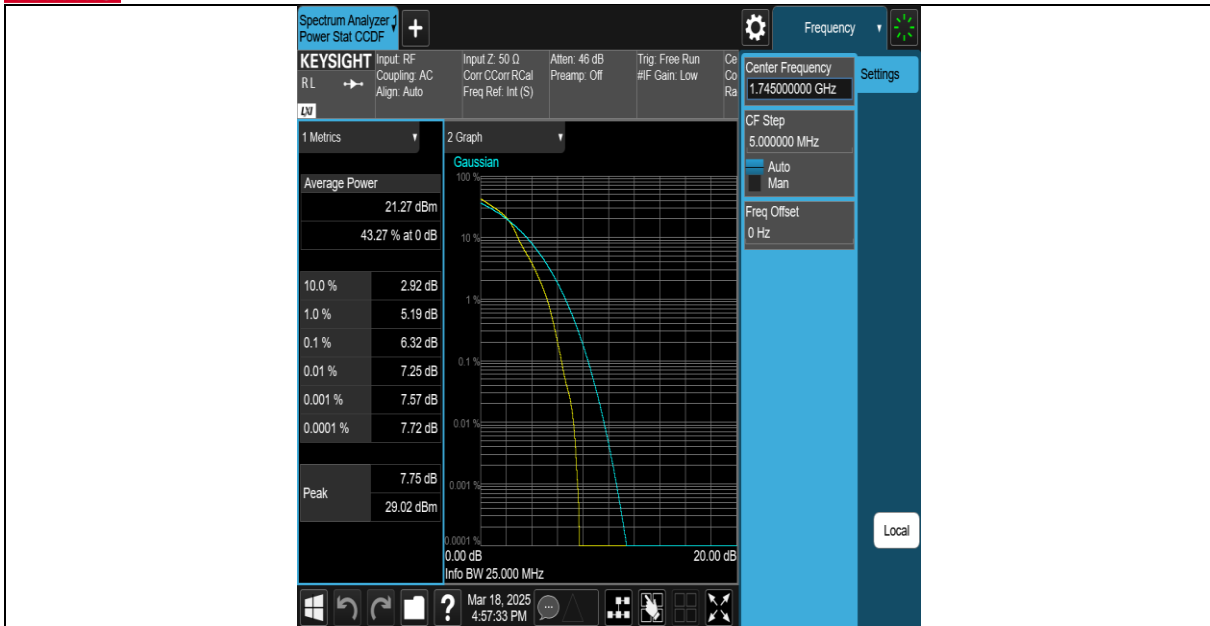
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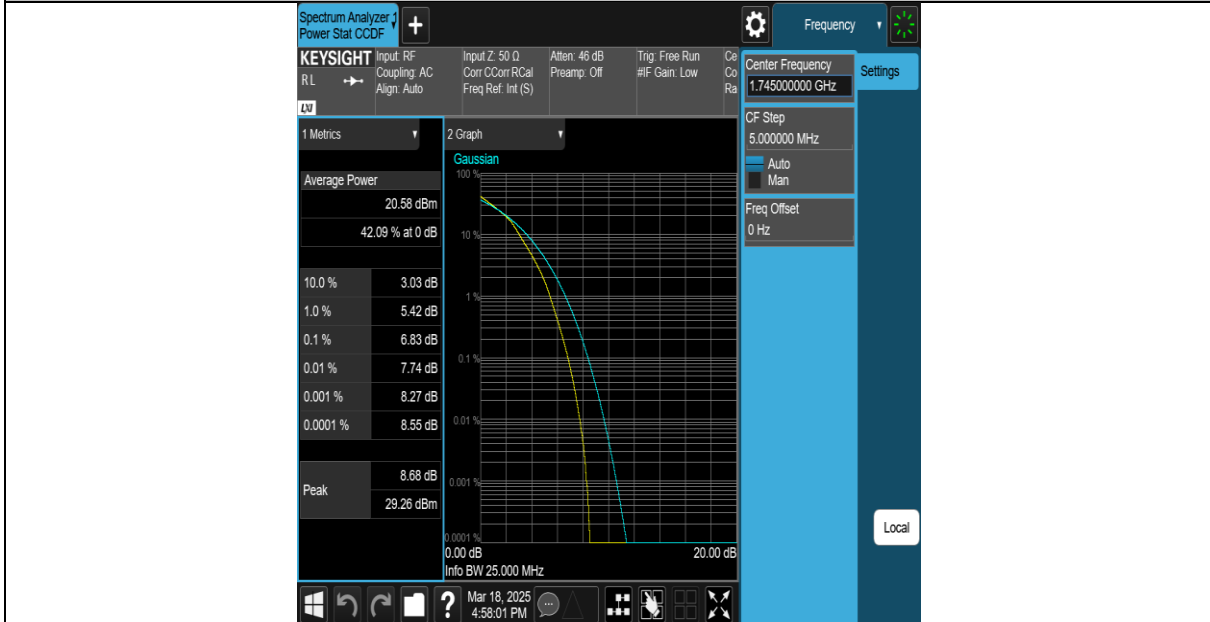
Band66-20MHz-16QAM-132322-1RB#0-PASS



BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF04



Band66-20MHz-16QAM-132322-27RB#0-PASS



Band66-20MHz-16QAM-132572-1RB#0-PASS