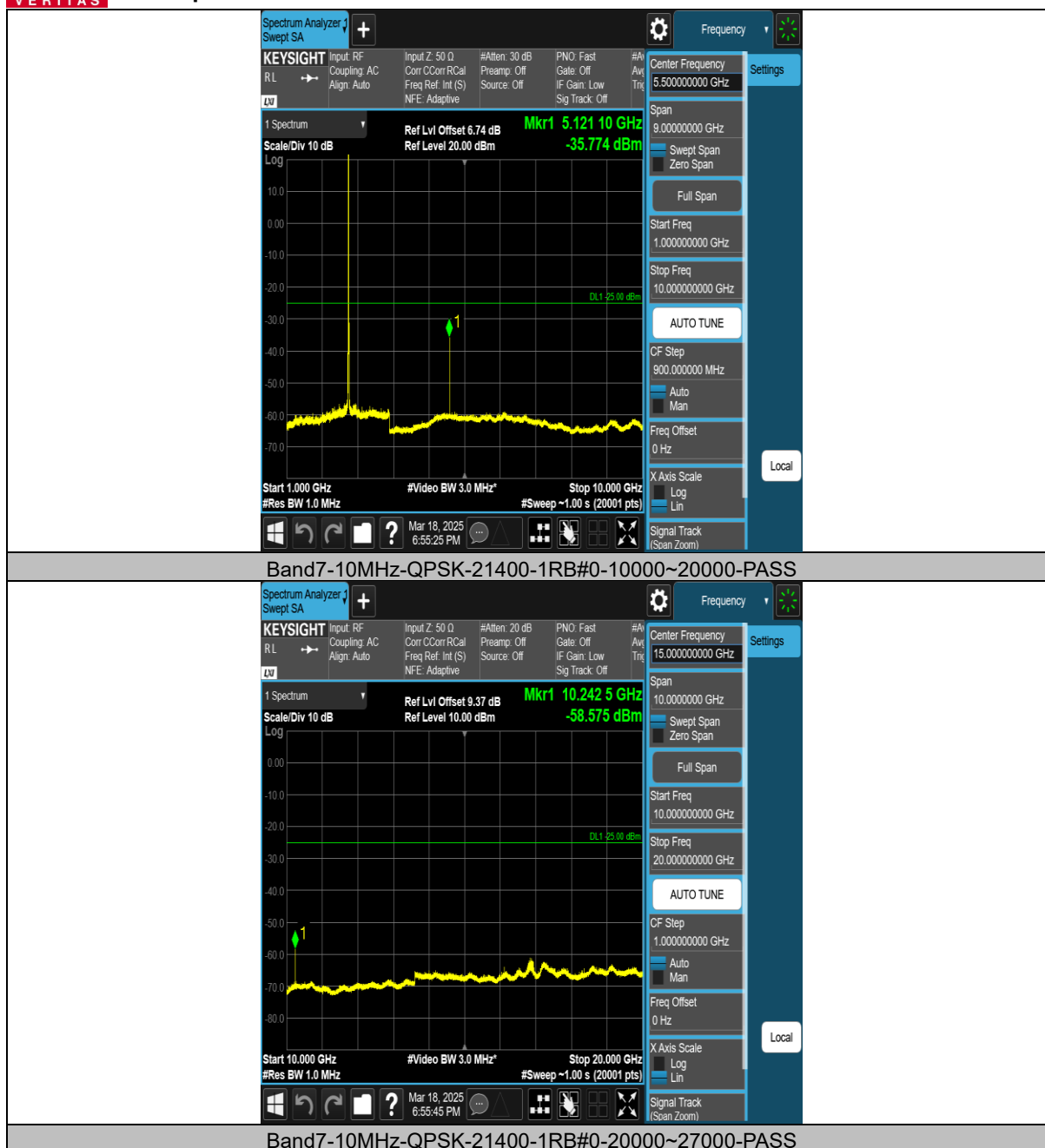
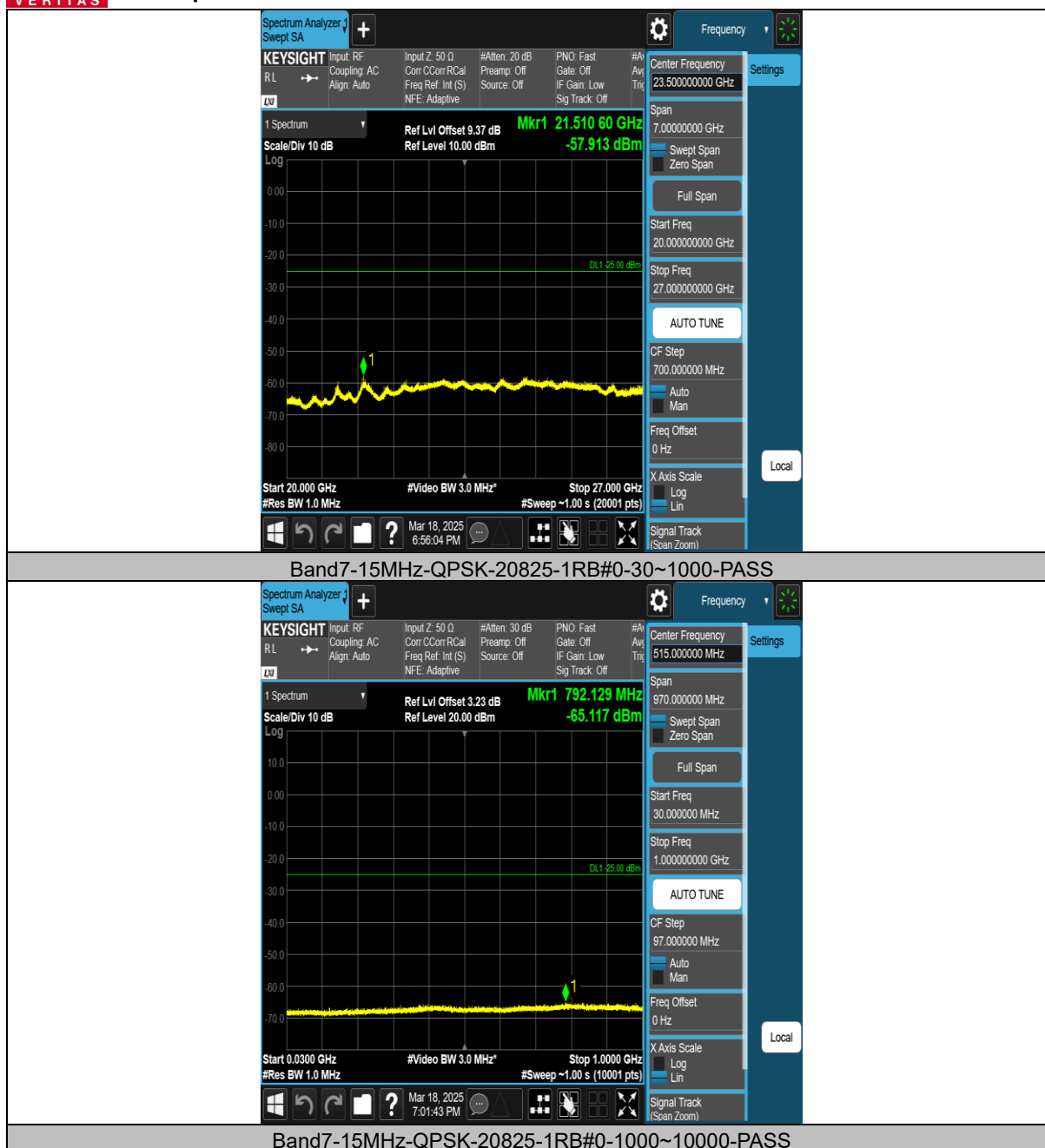


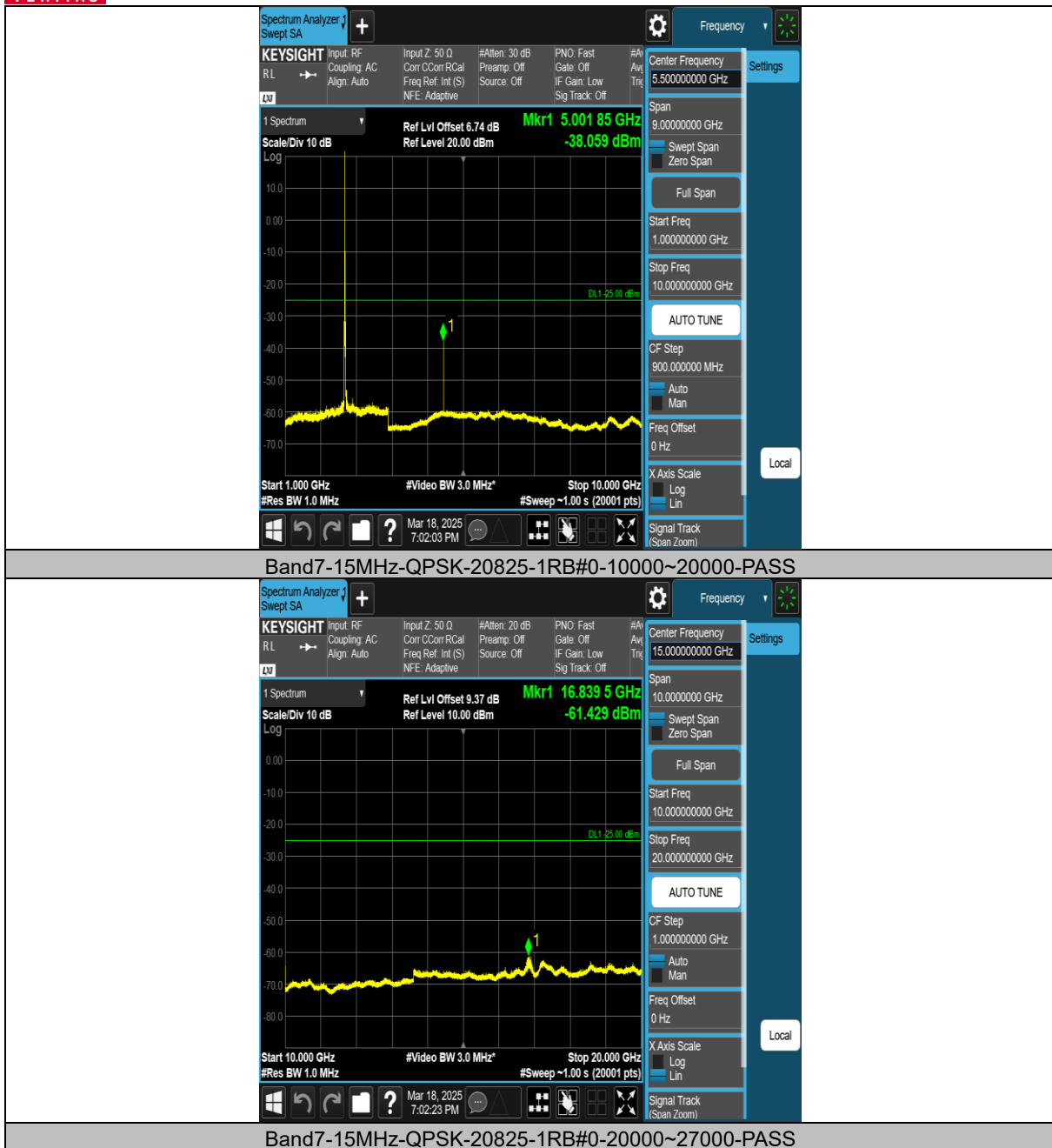


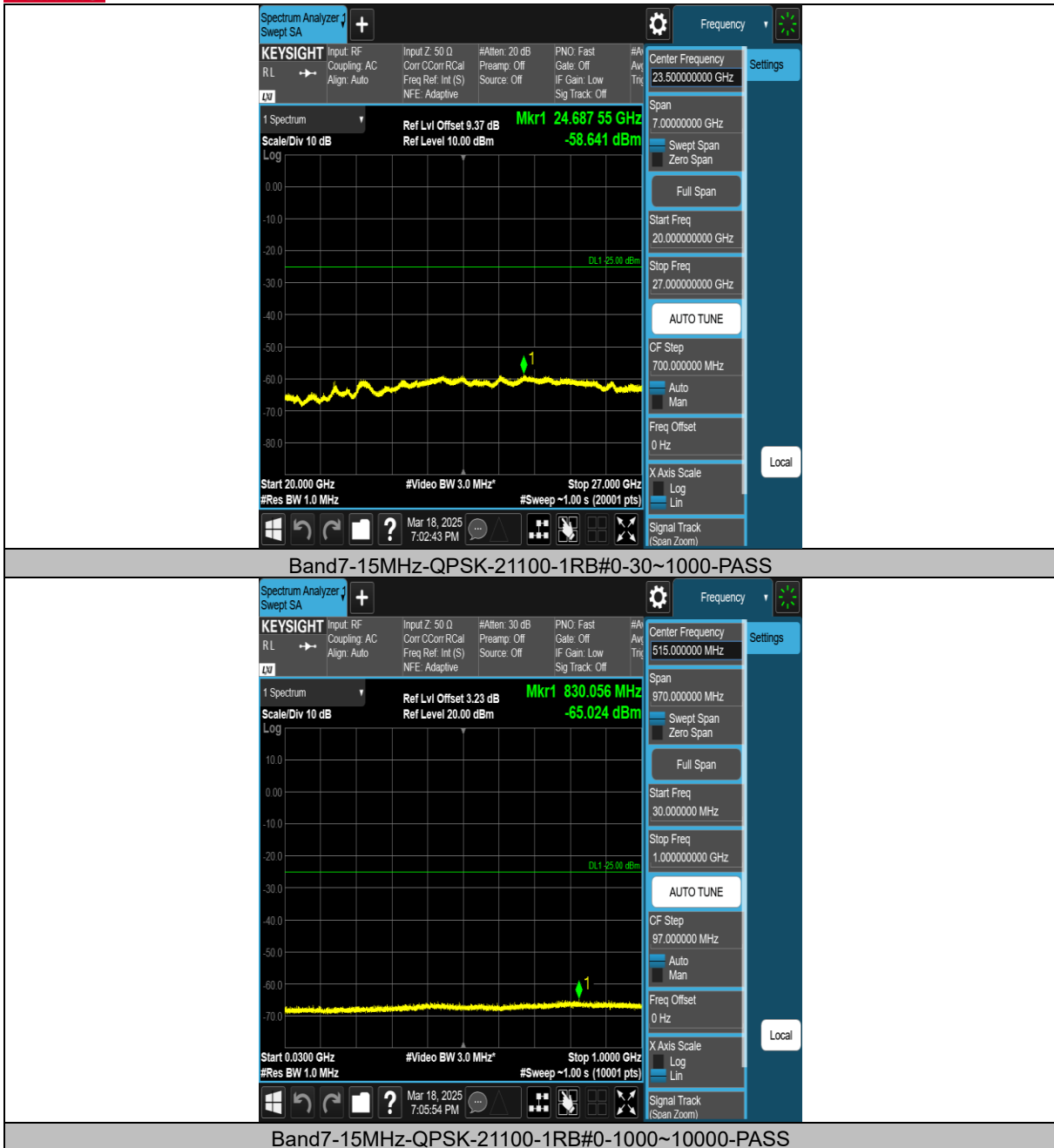


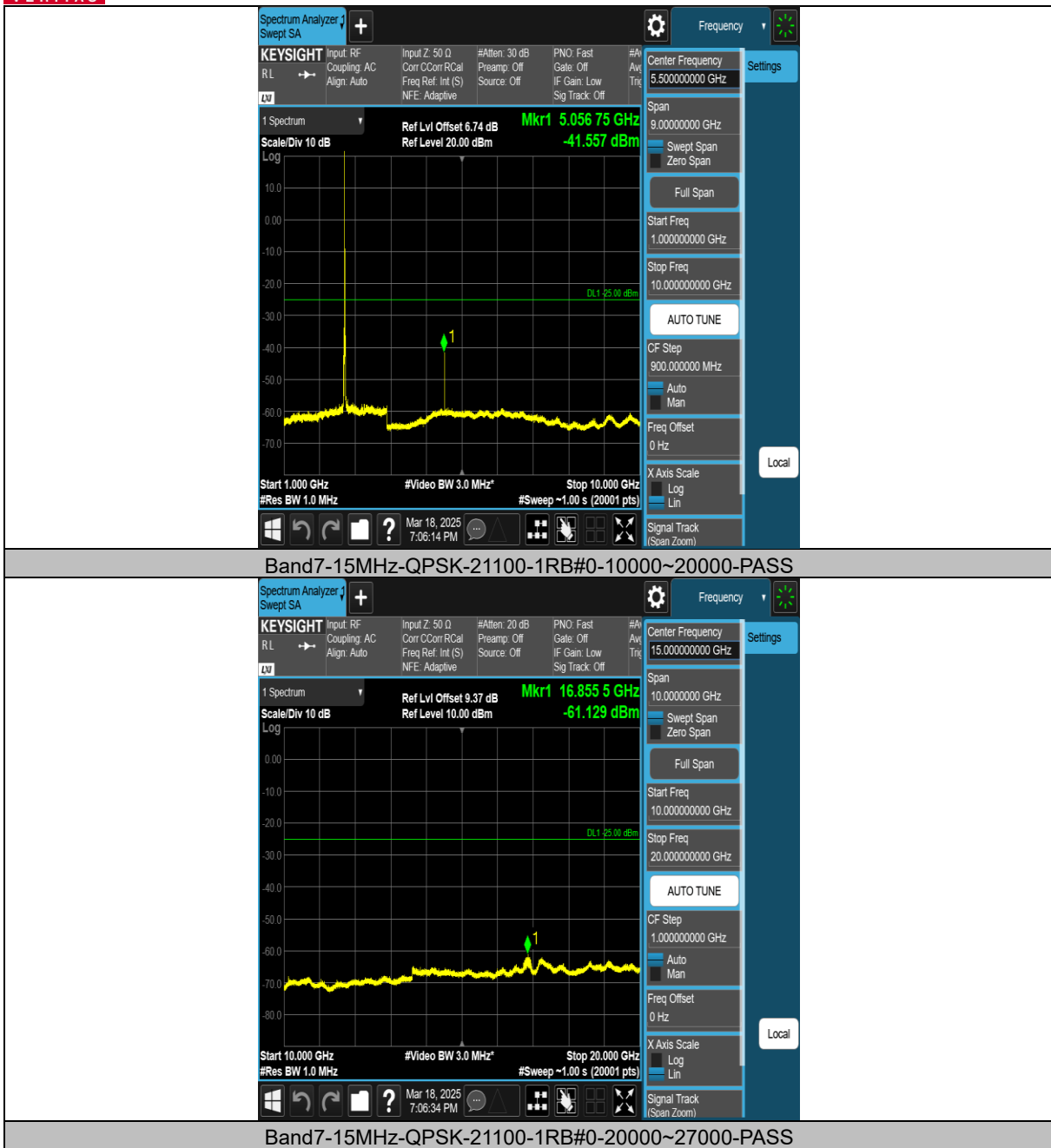


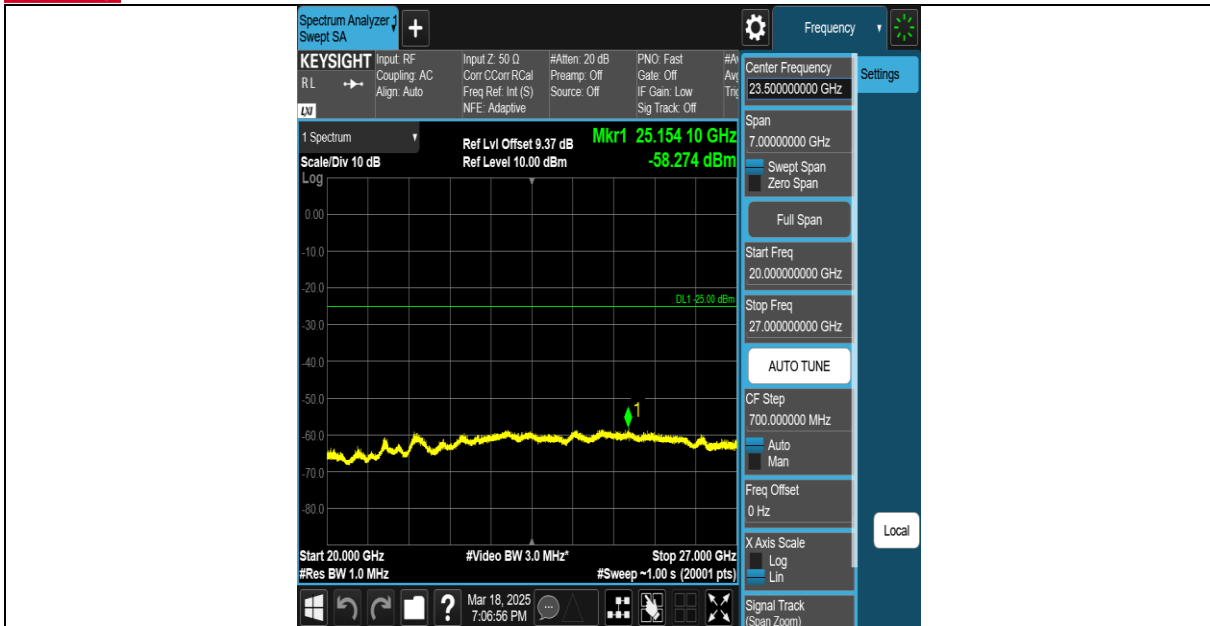
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VERITAS

Test Report No.: PSU-QSZ2503050113RF03

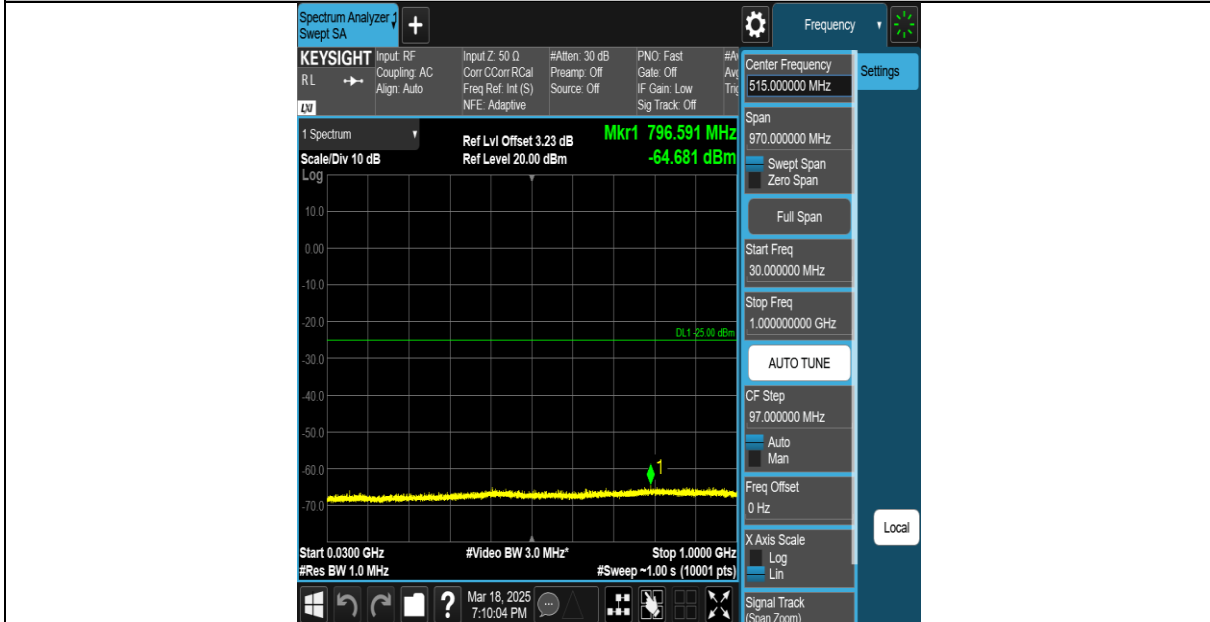




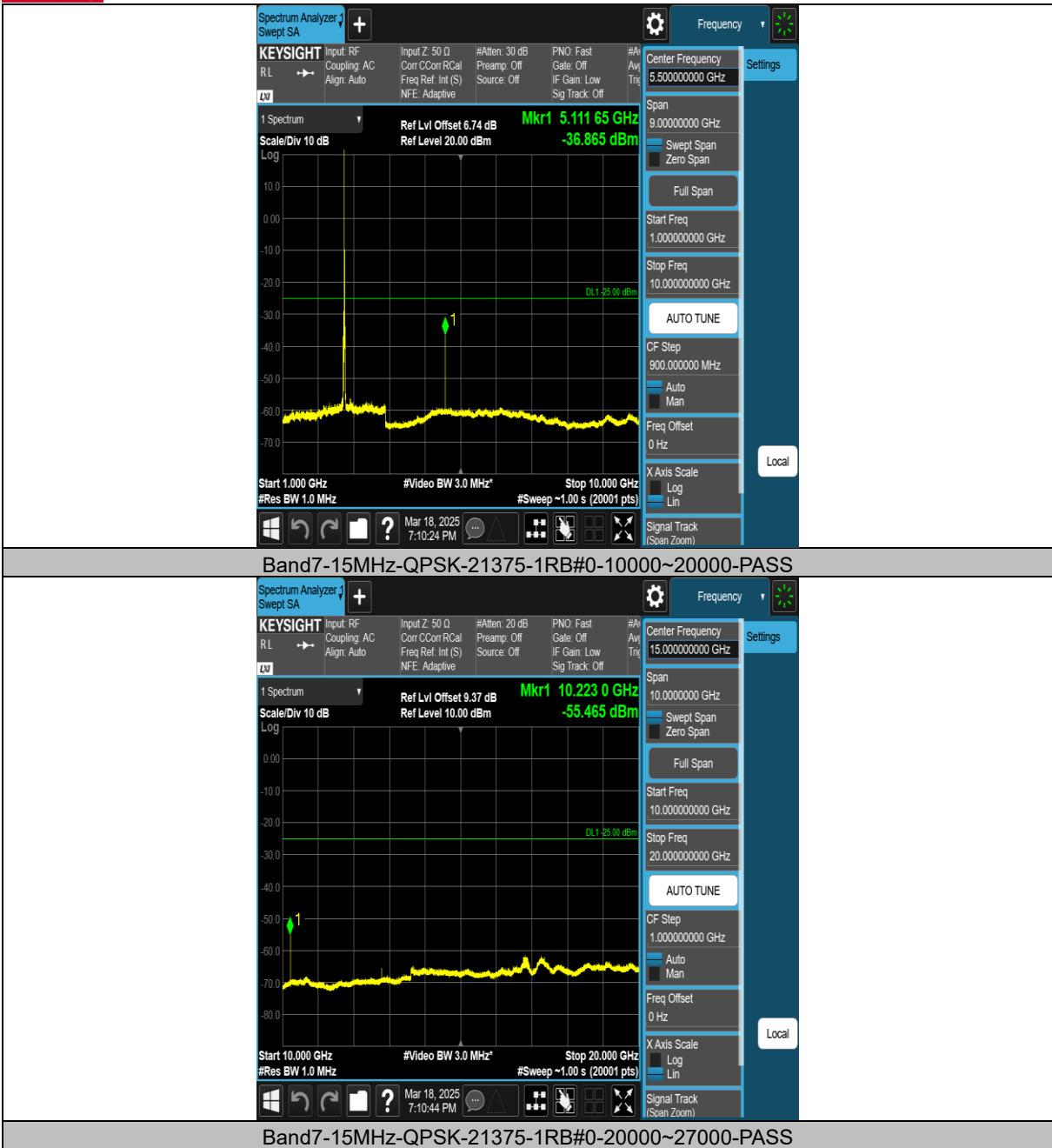


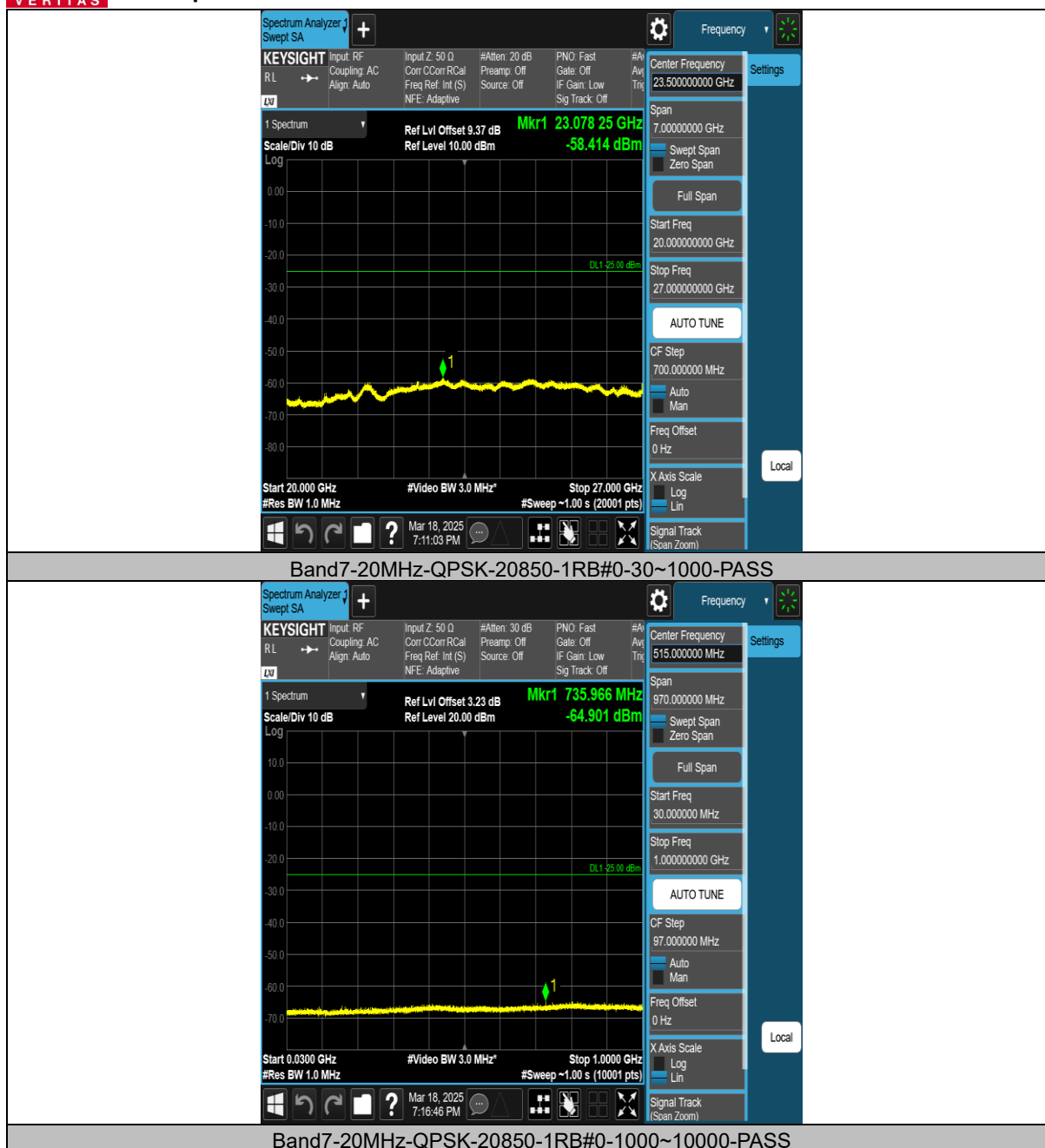


Band7-15MHz-QPSK-21375-1RB#0-30~1000-PASS



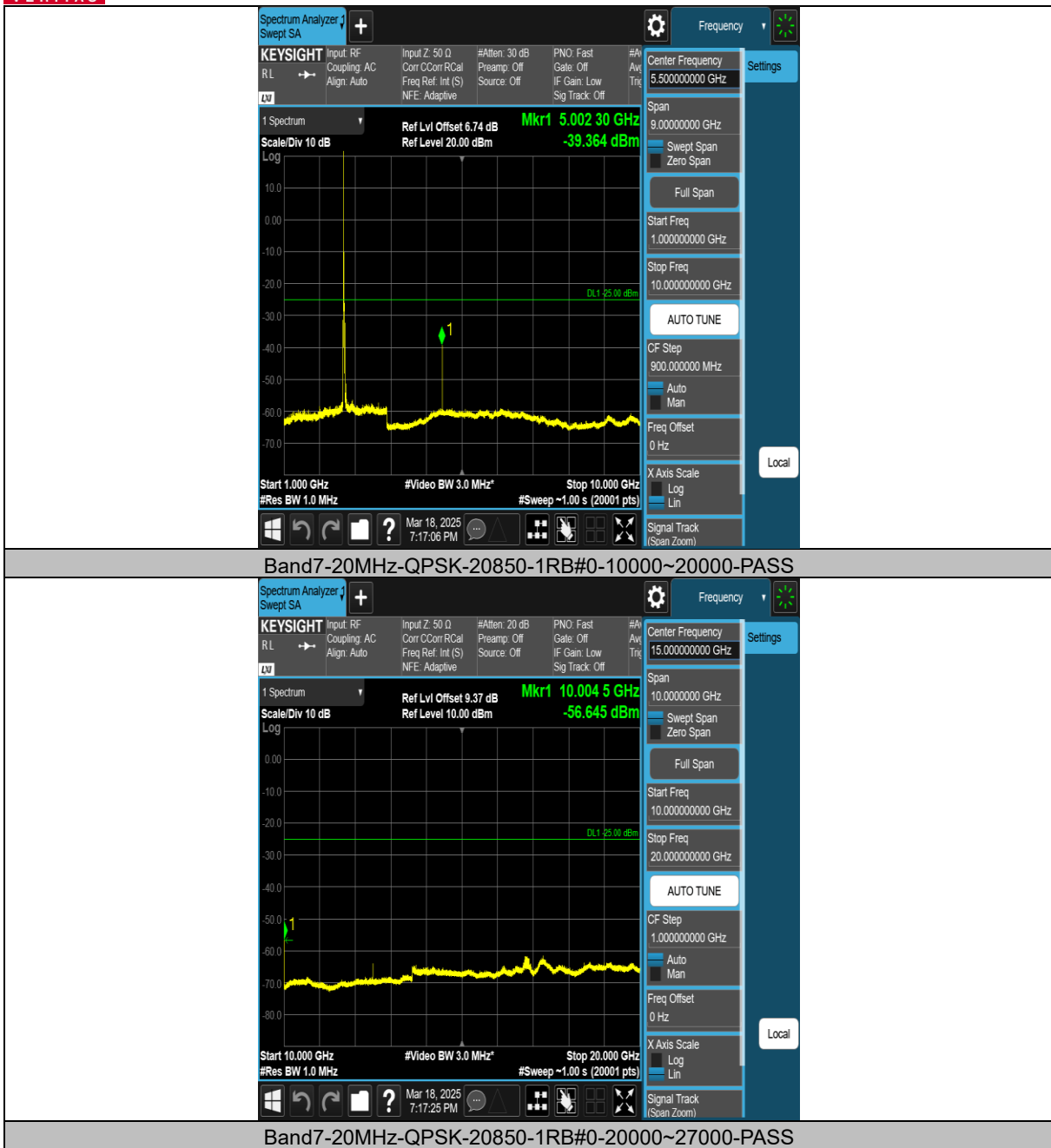
Band7-15MHz-QPSK-21375-1RB#0-1000~10000-PASS







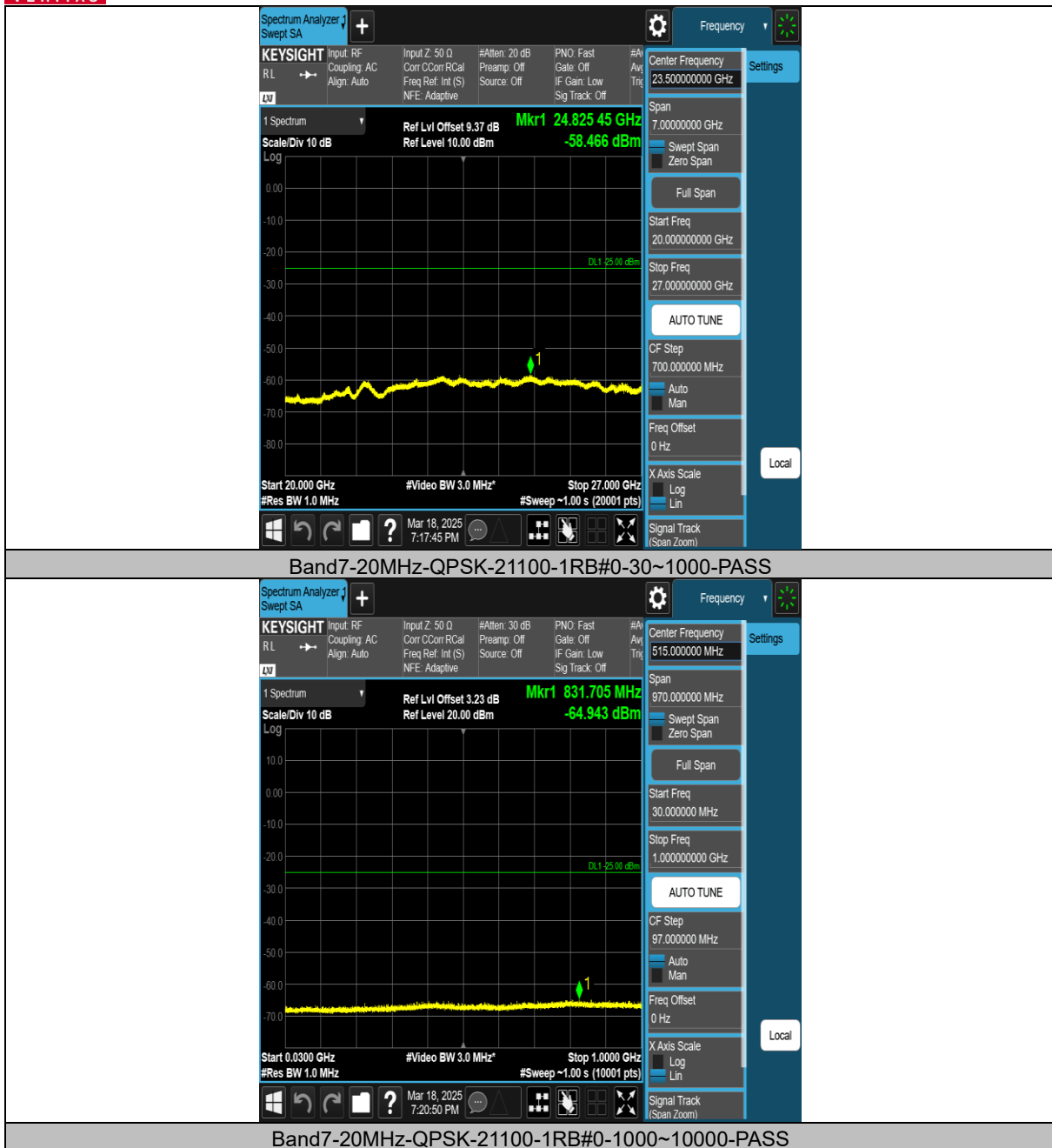
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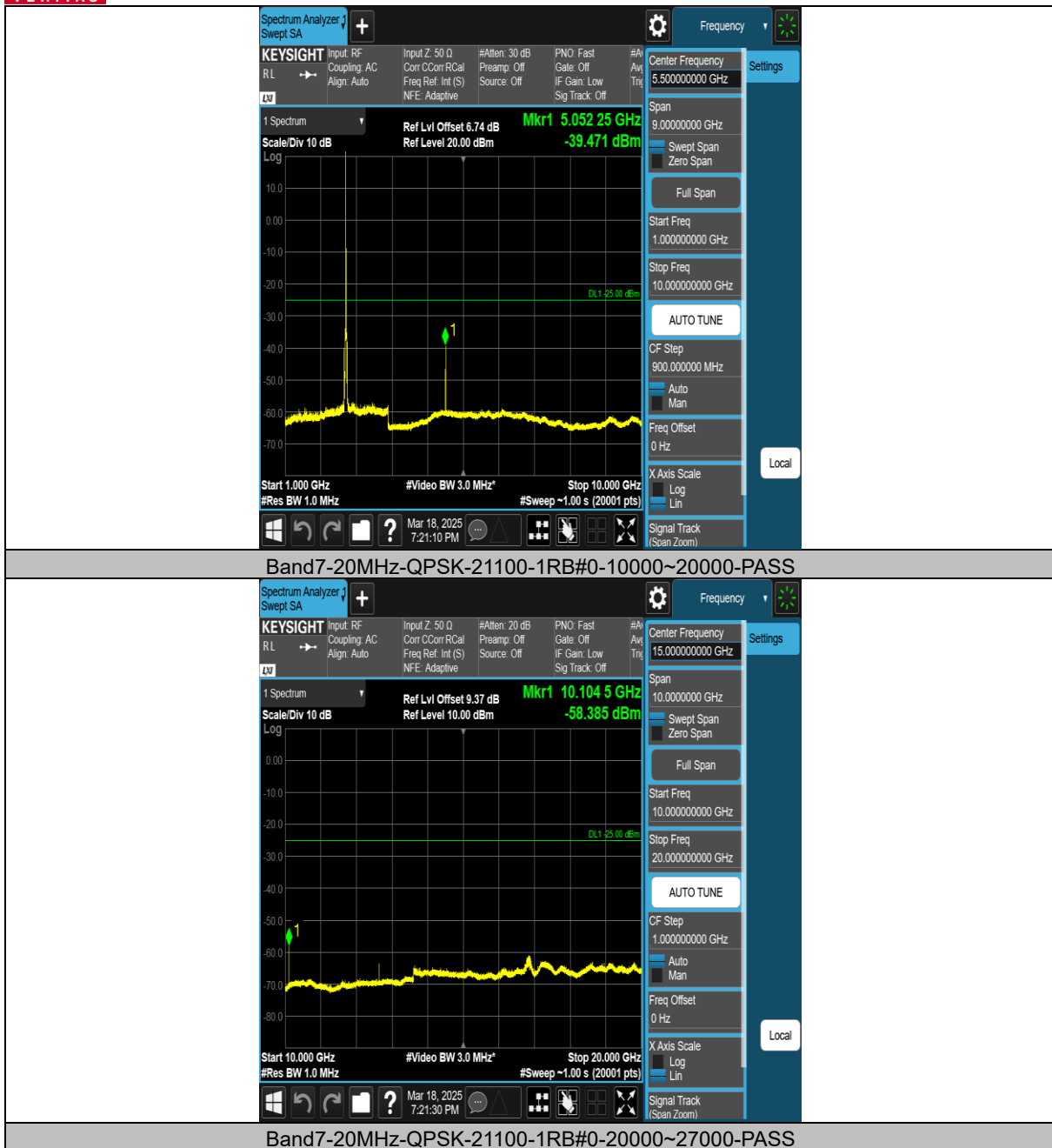




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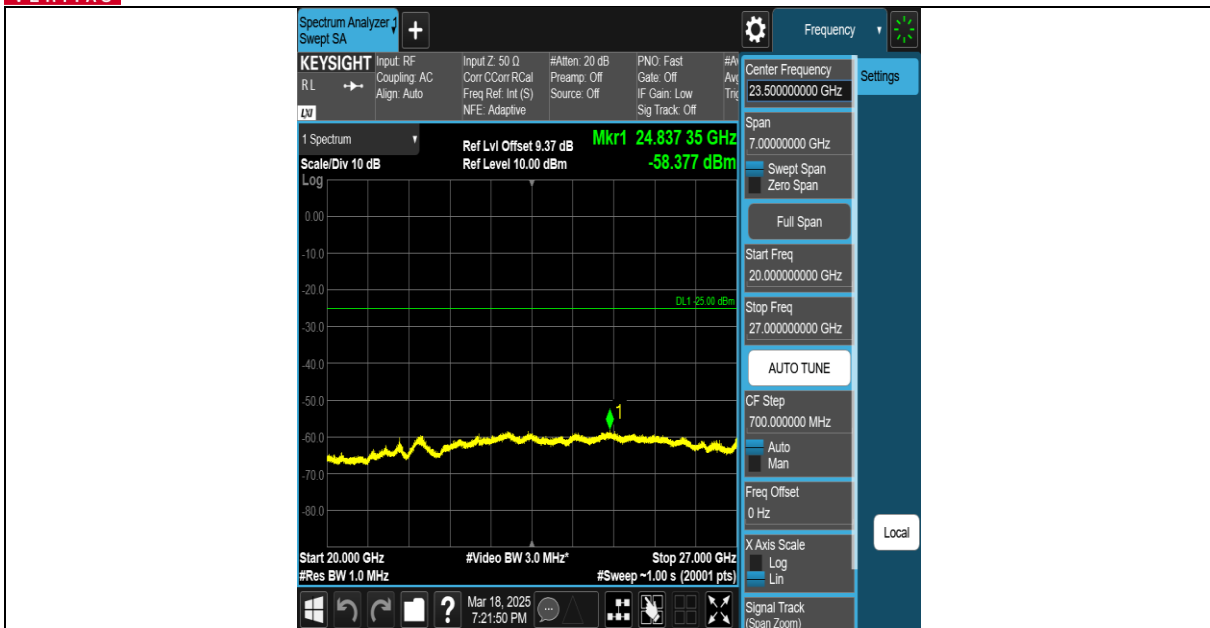
Test Report No.: PSU-QSZ2503050113RF03







BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF03



Band7-20MHz-QPSK-21350-1RB#0-30~1000-PASS

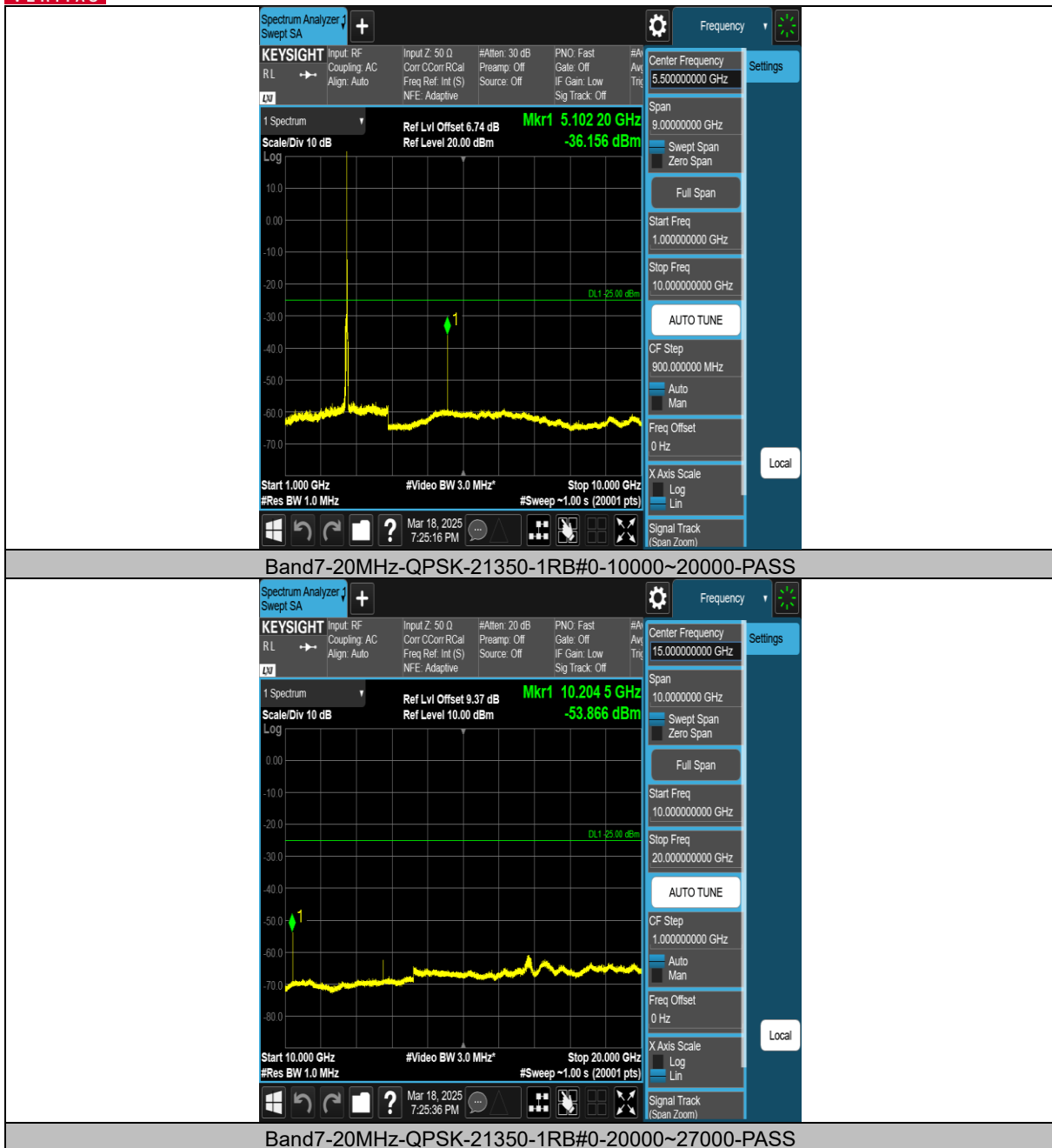


Band7-20MHz-QPSK-21350-1RB#0-1000~10000-PASS



BUREAU
VERITAS

Test Report No.: PSU-QSZ2503050113RF03





BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF03





APPENDIX : FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configur e	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-2464.00	-0.981673	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-2457.00	-0.978884	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-2452.00	-0.976892	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-3729.00	-1.471006	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-3755.00	-1.481262	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-3729.00	-1.471006	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-3748.00	-1.464063	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-2476.00	-0.967188	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-2475.00	-0.966797	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configur e	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-1183.00	-0.471315	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-1186.00	-0.472510	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-10	-1189.00	-0.473705	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-1180.00	-0.470120	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-1177.00	-0.468924	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-1180.00	-0.470120	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-1173.00	-0.467331	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-1178.00	-0.469323	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-1168.00	-0.465339	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-1173.00	-0.462722	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-1183.00	-0.466667	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-1176.00	-0.463905	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-1181.00	-0.465878	±2.5	PASS



Band7	20MHz	QPSK	21100	100RB#0	NV	10	-1183.00	- 0.466667	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-1176.00	- 0.463905	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-1183.00	- 0.466667	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-1188.00	- 0.468639	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-1186.00	- 0.467850	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-1175.00	- 0.458984	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-1187.00	- 0.463672	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-10	-1185.00	- 0.462891	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-1168.00	- 0.456250	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-1184.00	- 0.462500	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-1184.00	- 0.462500	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-1182.00	- 0.461719	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-1188.00	- 0.464063	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-1188.00	- 0.464063	±2.5	PASS



LTE B12(INCLUDING B17)

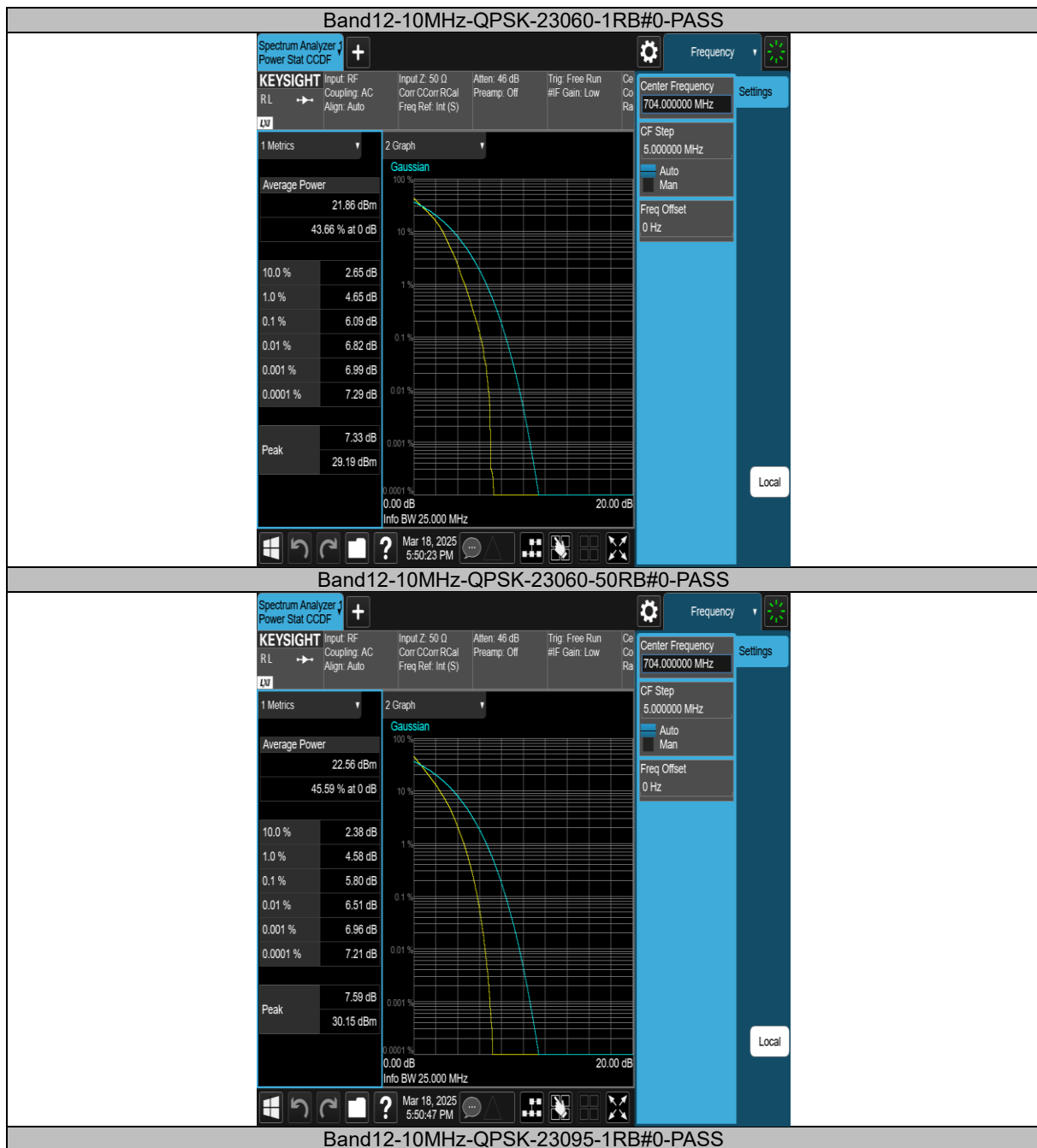
Appendix : Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	1RB#0	6.09	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.80	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	5.94	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	6.00	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	6.04	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.94	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	7.03	13	PASS
Band12	10MHz	16QAM	23060	27RB#0	6.63	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	6.93	13	PASS
Band12	10MHz	16QAM	23095	27RB#0	6.65	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	6.83	13	PASS
Band12	10MHz	16QAM	23130	27RB#0	6.78	13	PASS

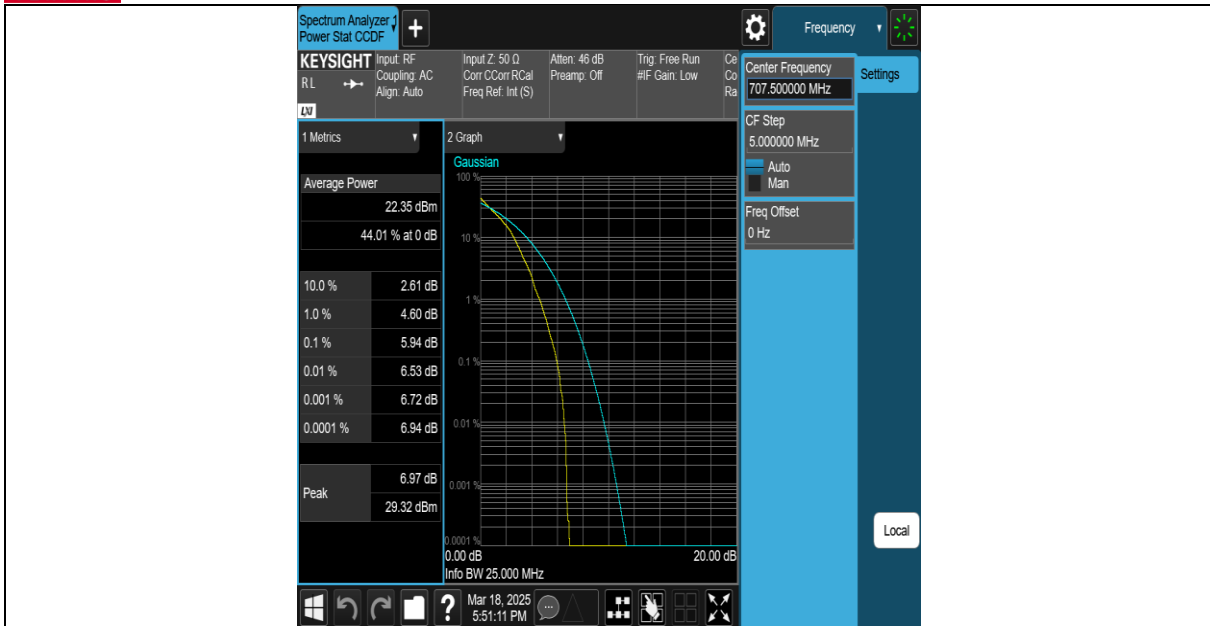


Test Graphs

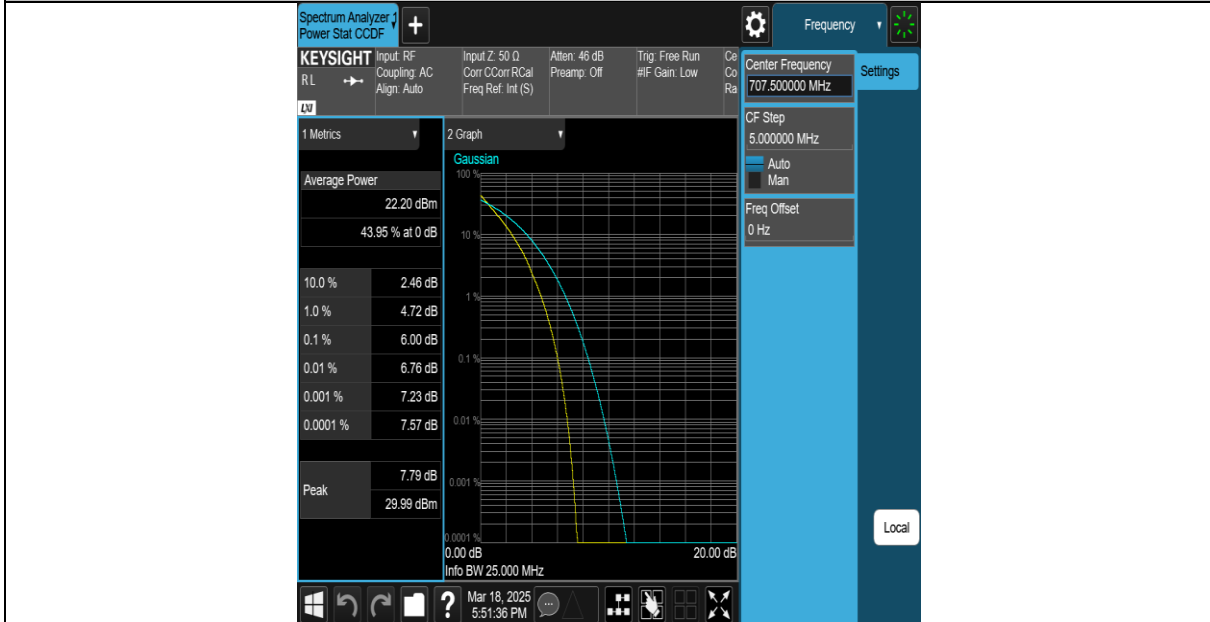




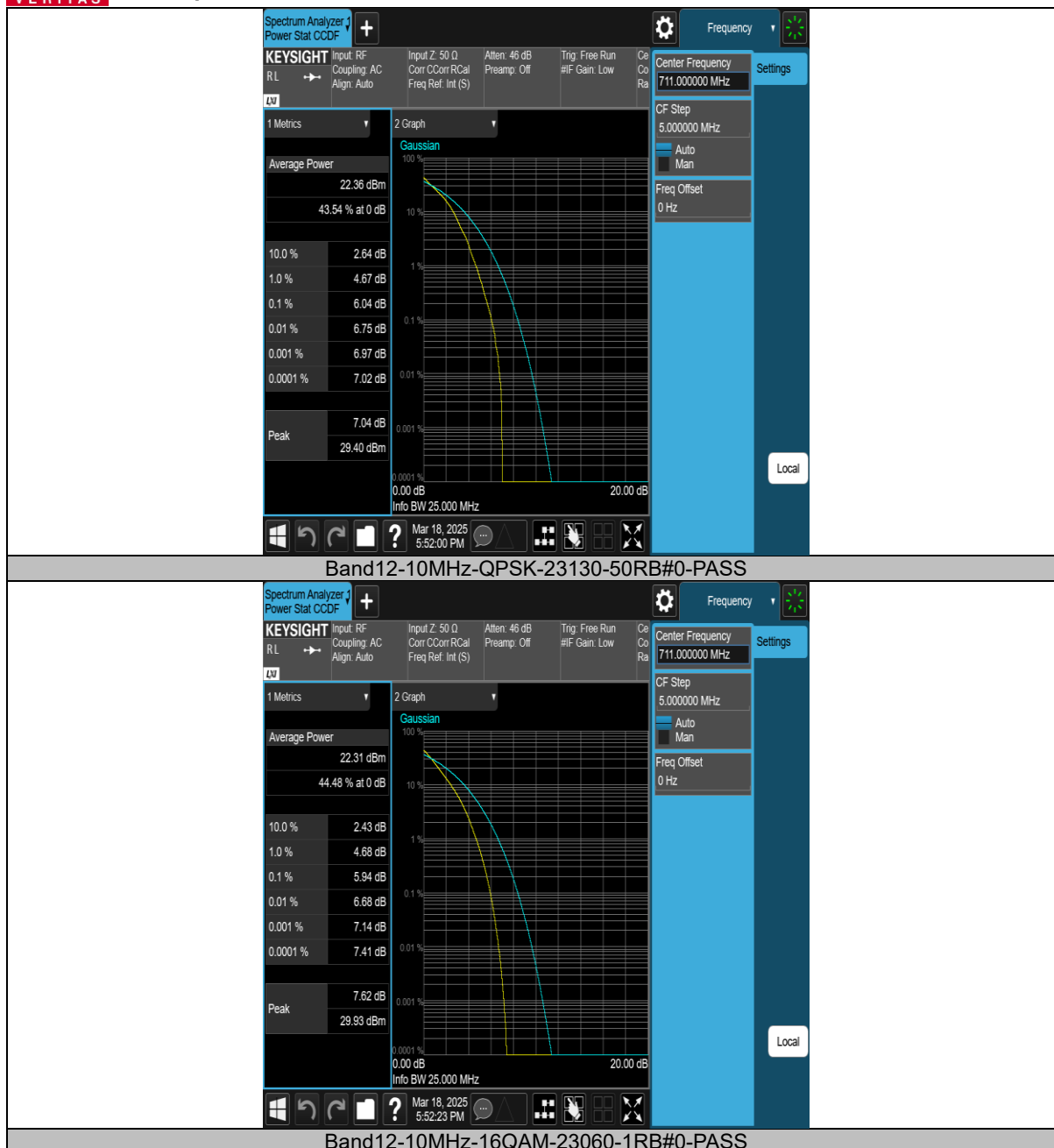
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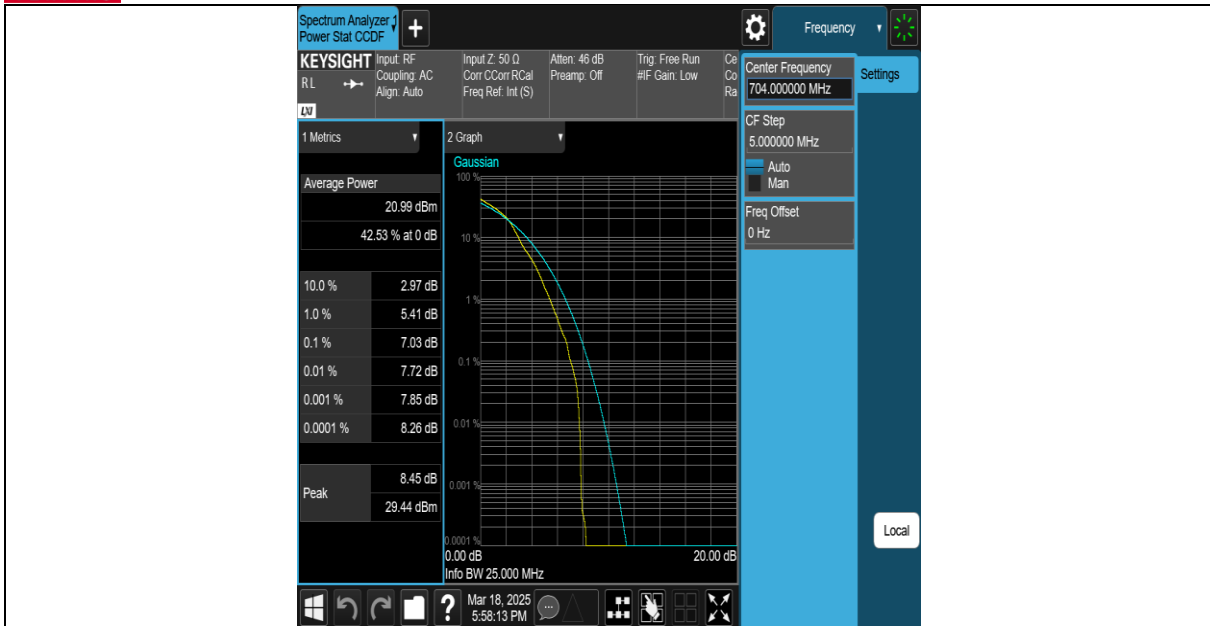


Band12-10MHz-QPSK-23095-50RB#0-PASS

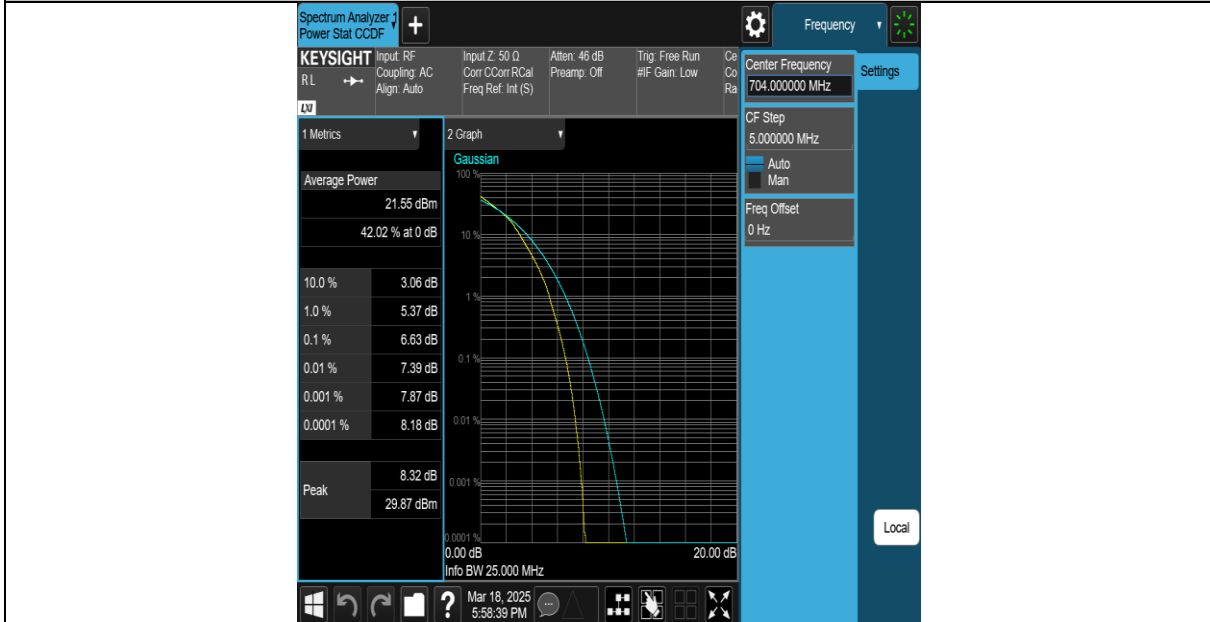


Band12-10MHz-QPSK-23130-1RB#0-PASS

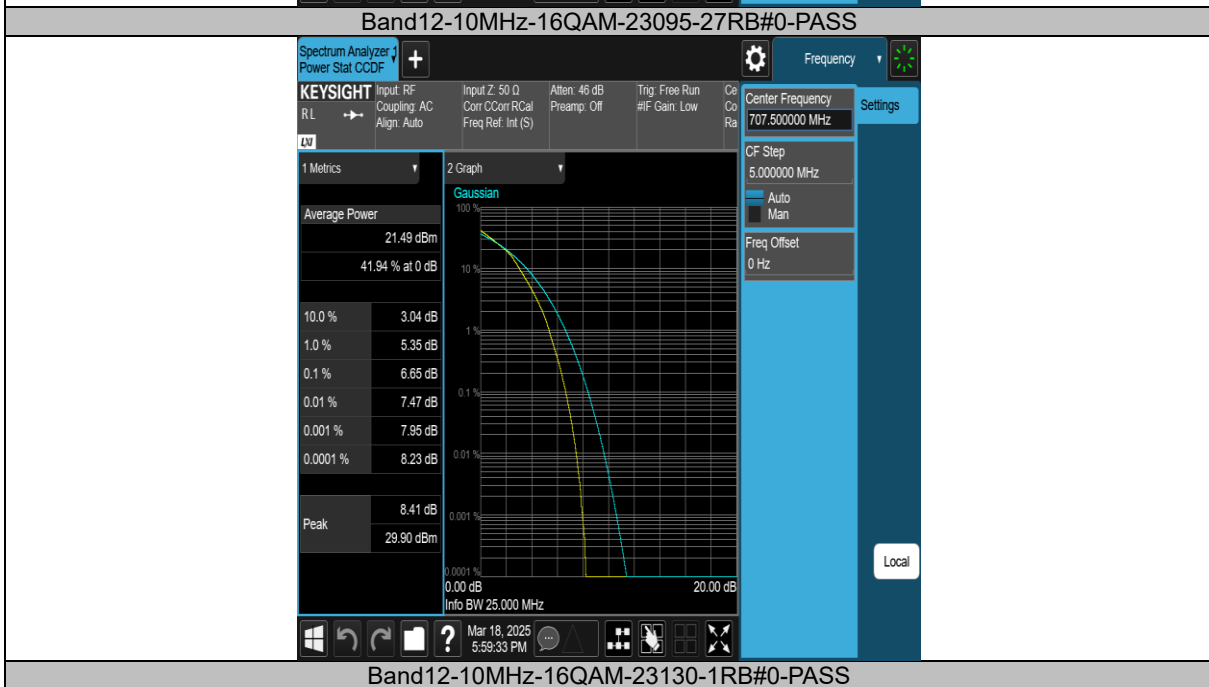
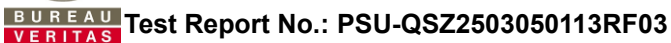


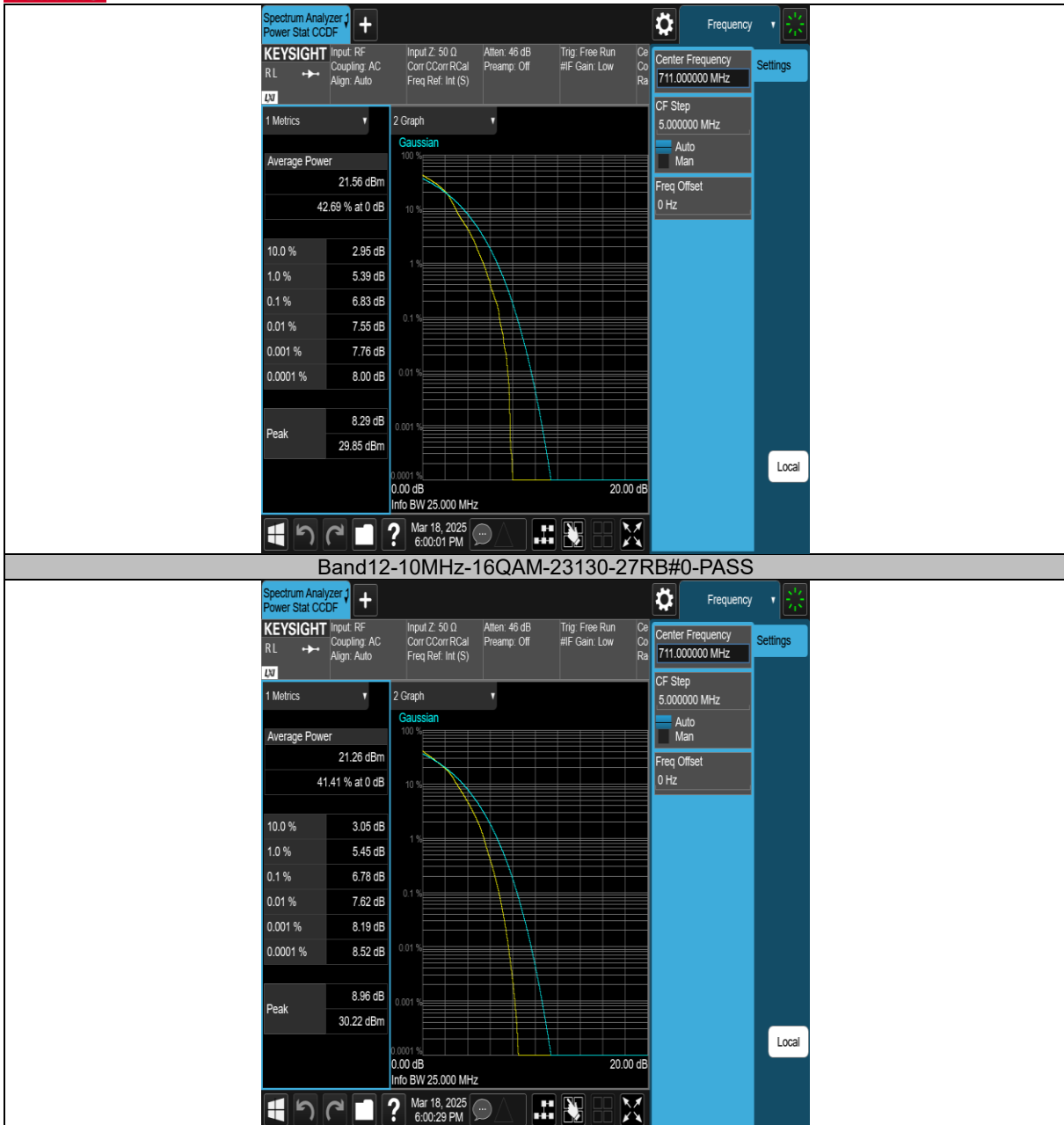


Band12-10MHz-16QAM-23060-27RB#0-PASS



Band12-10MHz-16QAM-23095-1RB#0-PASS







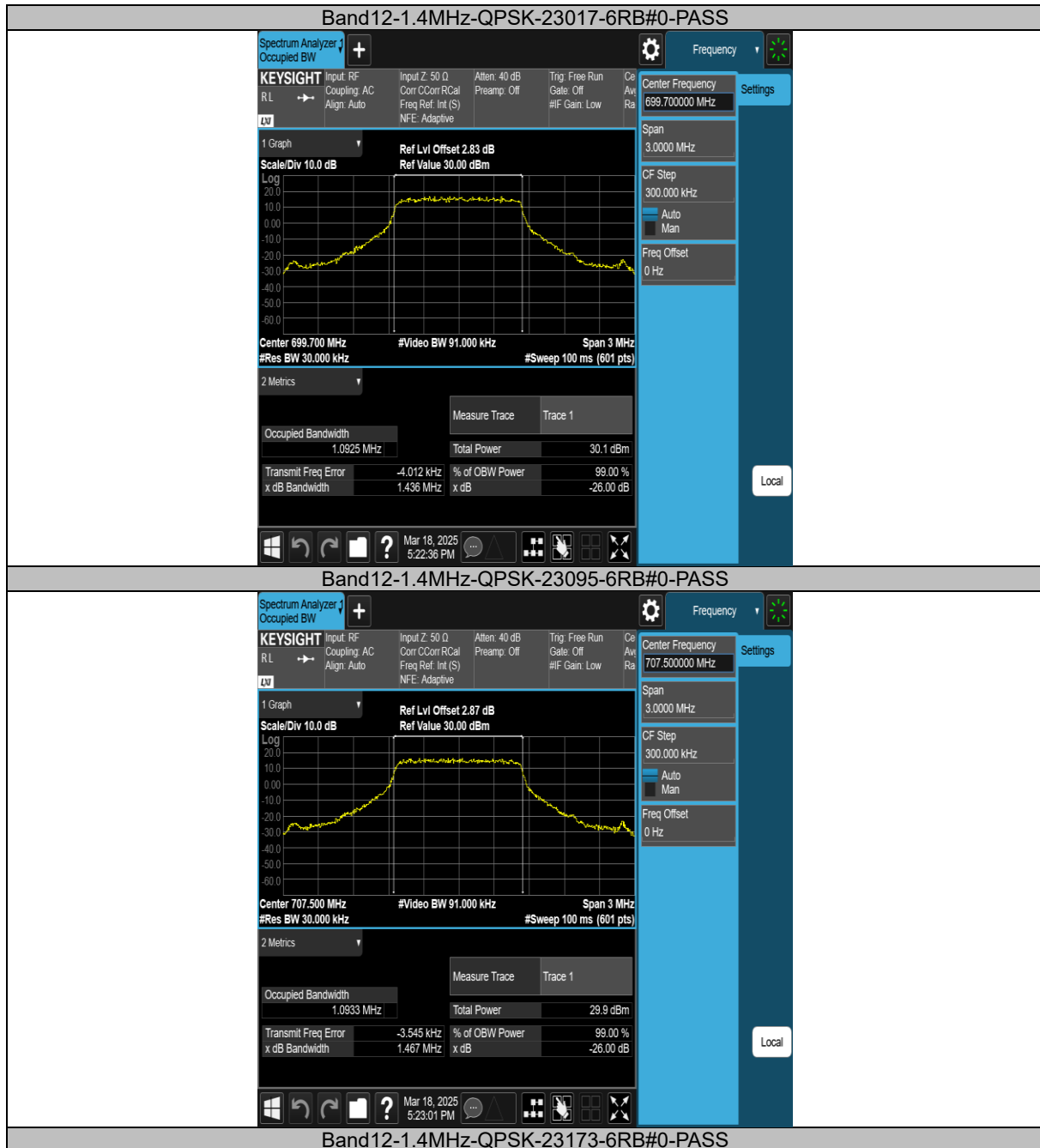
Appendix : 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0925	1.436	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0933	1.467	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0896	1.420	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1108	1.467	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1059	1.467	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1048	1.438	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7005	3.180	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6897	3.124	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6897	3.102	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6811	3.166	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6881	3.152	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6789	3.147	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4817	5.074	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4853	5.092	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4700	5.064	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4807	5.113	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4897	5.082	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4706	5.054	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9030	9.702	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9517	9.717	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9195	9.718	PASS
Band12	10MHz	16QAM	23060	27RB#0	5.1638	7.529	PASS
Band12	10MHz	16QAM	23095	27RB#0	5.1146	7.264	PASS
Band12	10MHz	16QAM	23130	27RB#0	5.2589	8.146	PASS

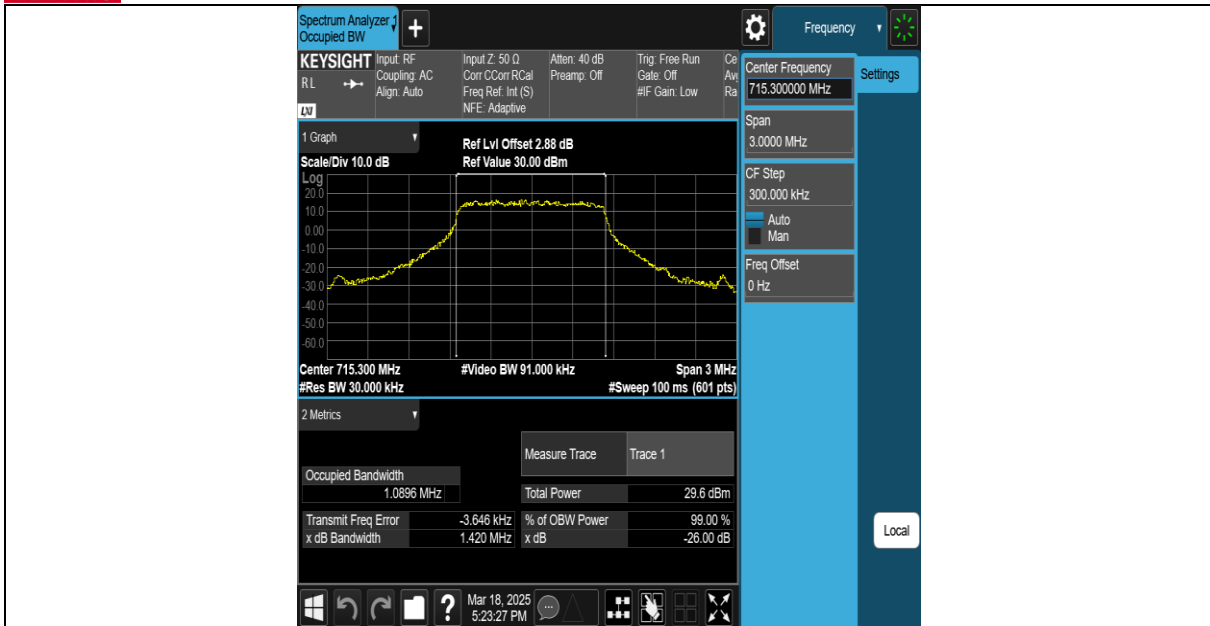


Test Graphs

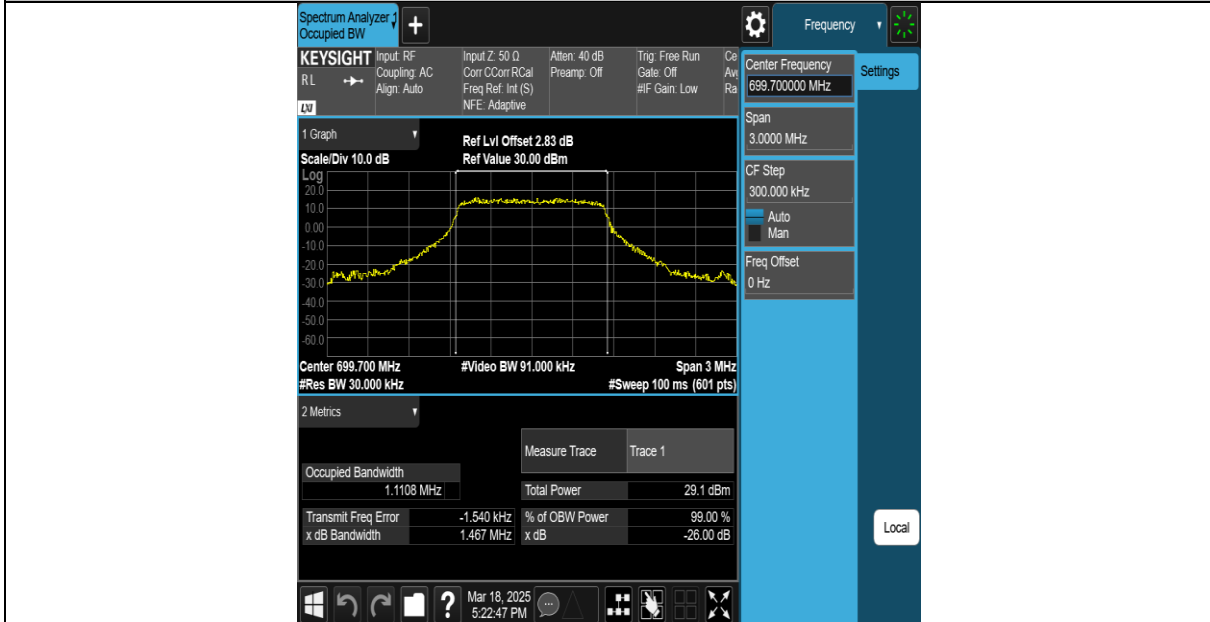




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Band12-1.4MHz-16QAM-23017-6RB#0-PASS



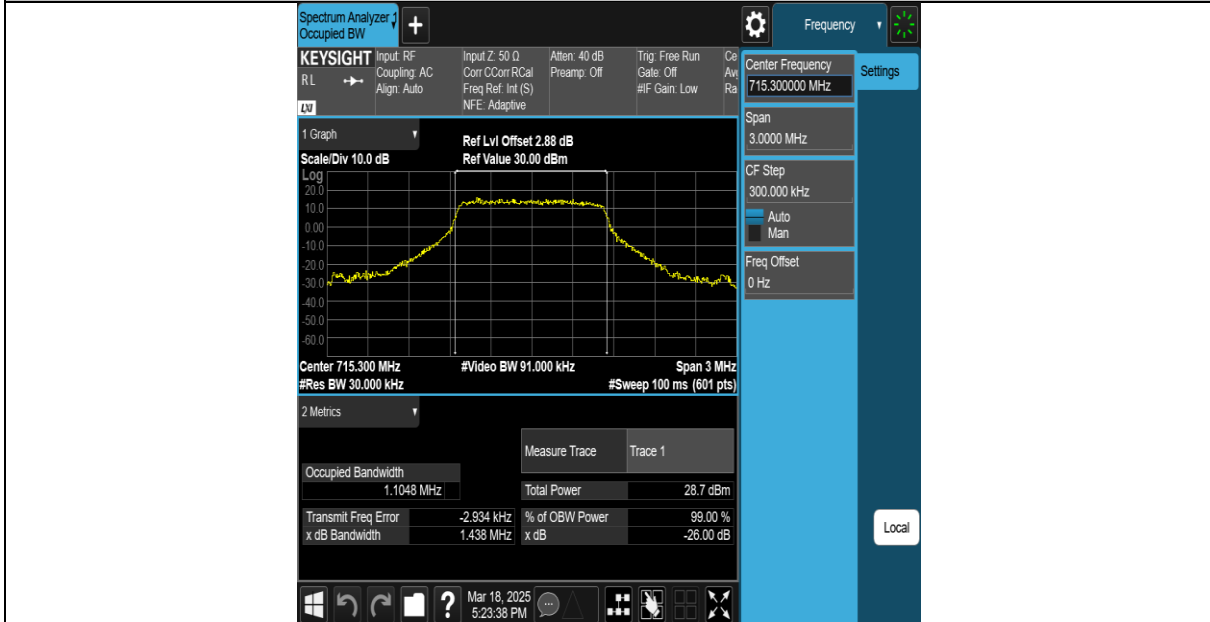
Band12-1.4MHz-16QAM-23095-6RB#0-PASS



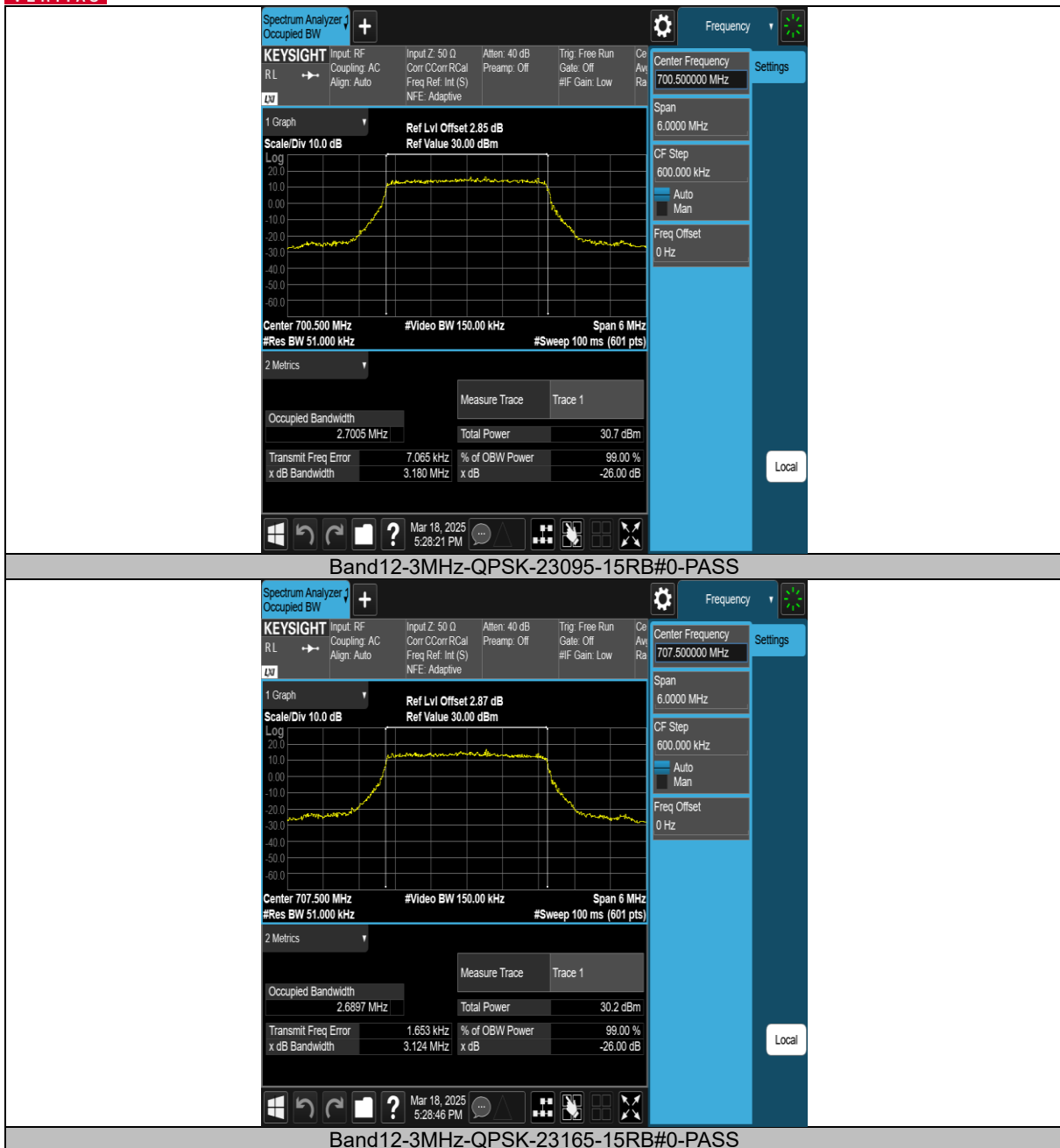
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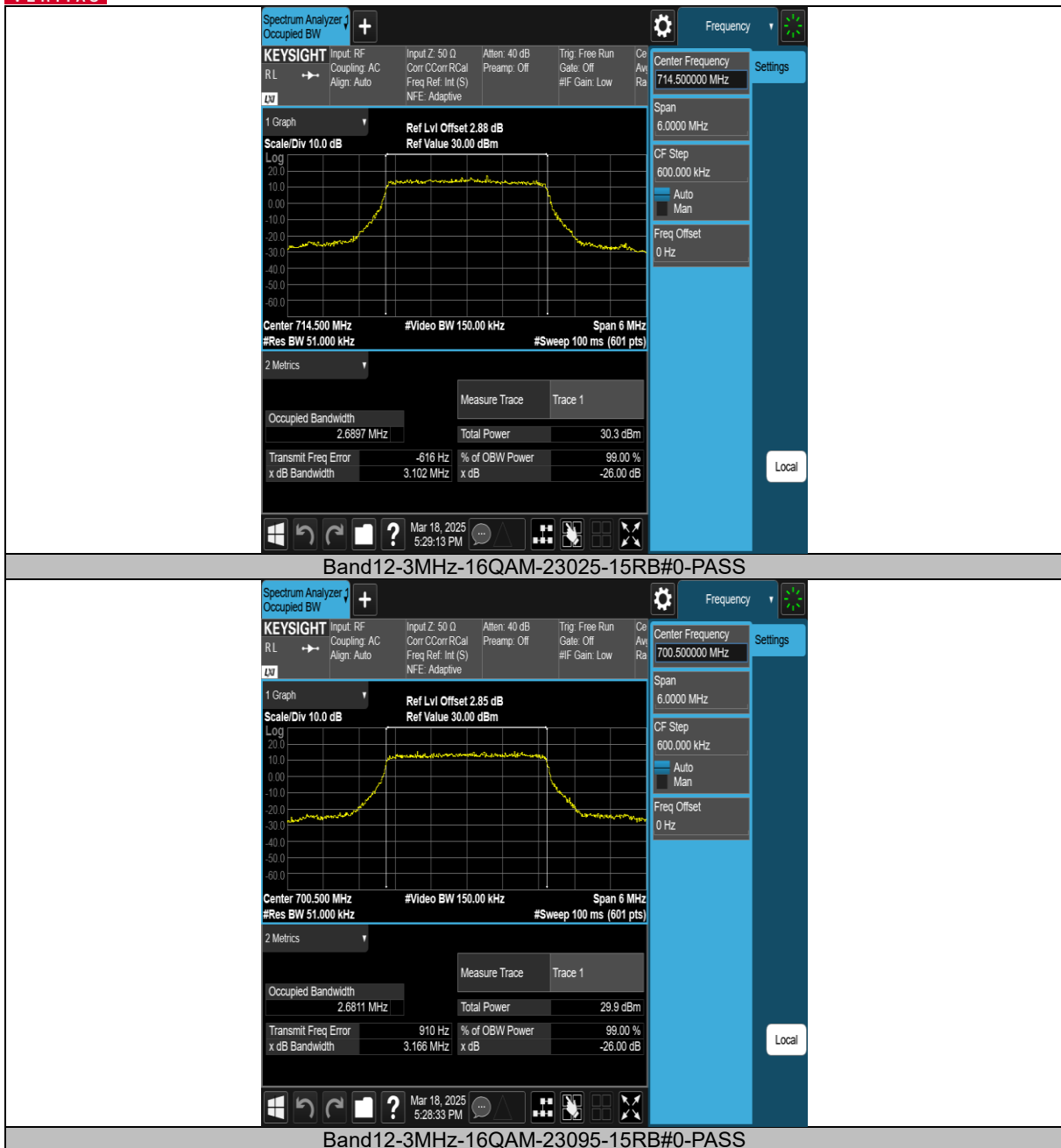


Band12-1.4MHz-16QAM-23173-6RB#0-PASS



Band12-3MHz-QPSK-23025-15RB#0-PASS



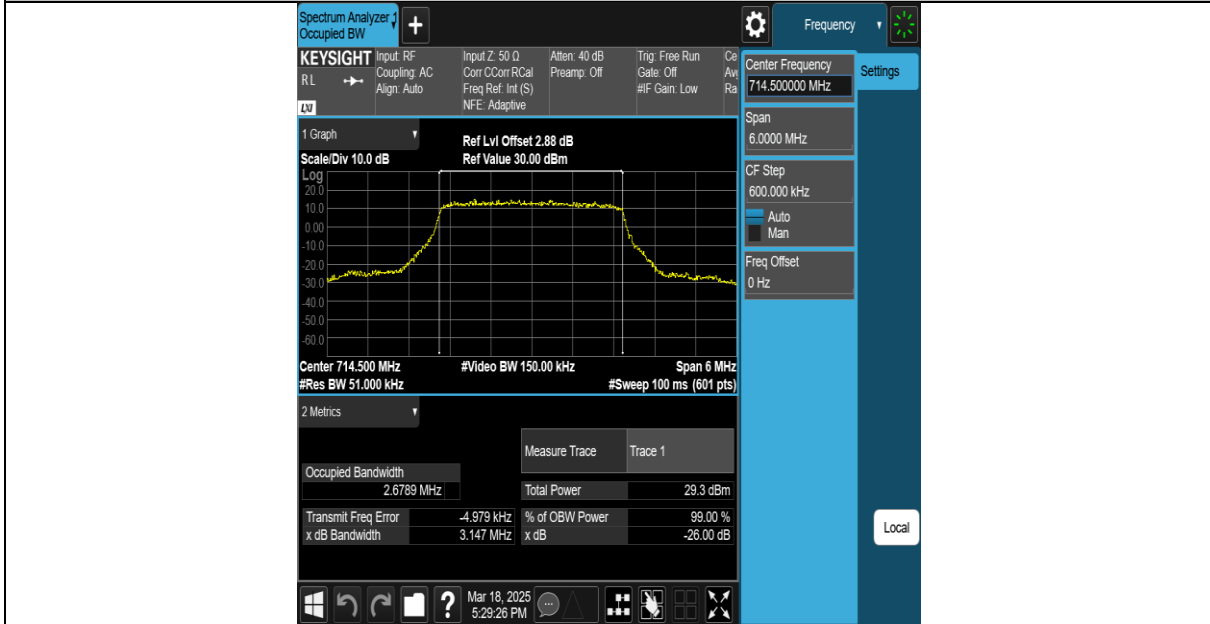




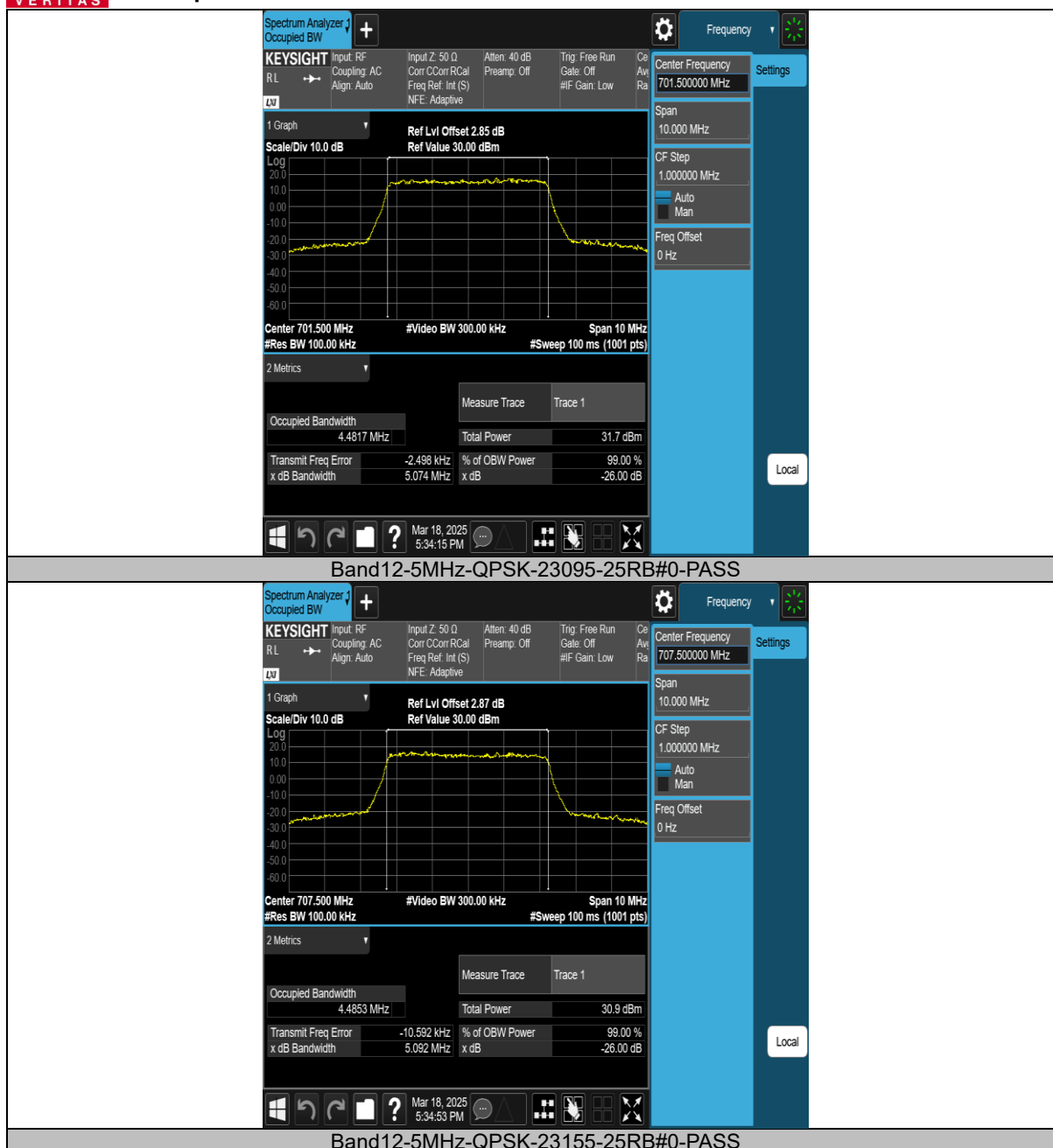
BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF03



Band12-3MHz-16QAM-23165-15RB#0-PASS



Band12-5MHz-QPSK-23035-25RB#0-PASS

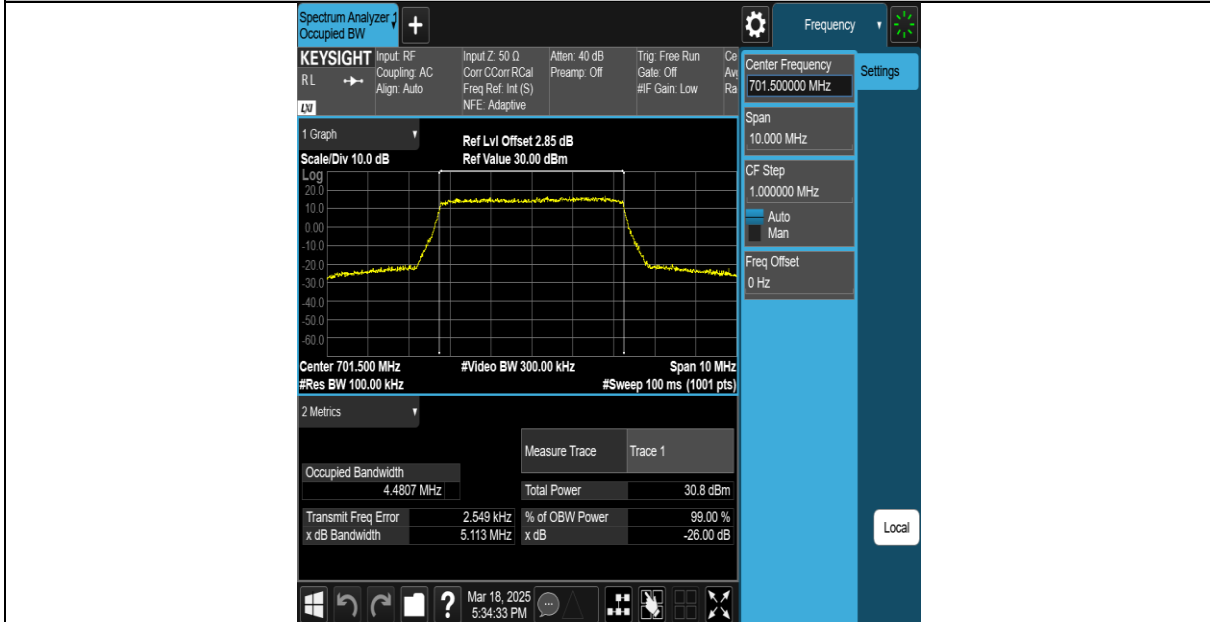




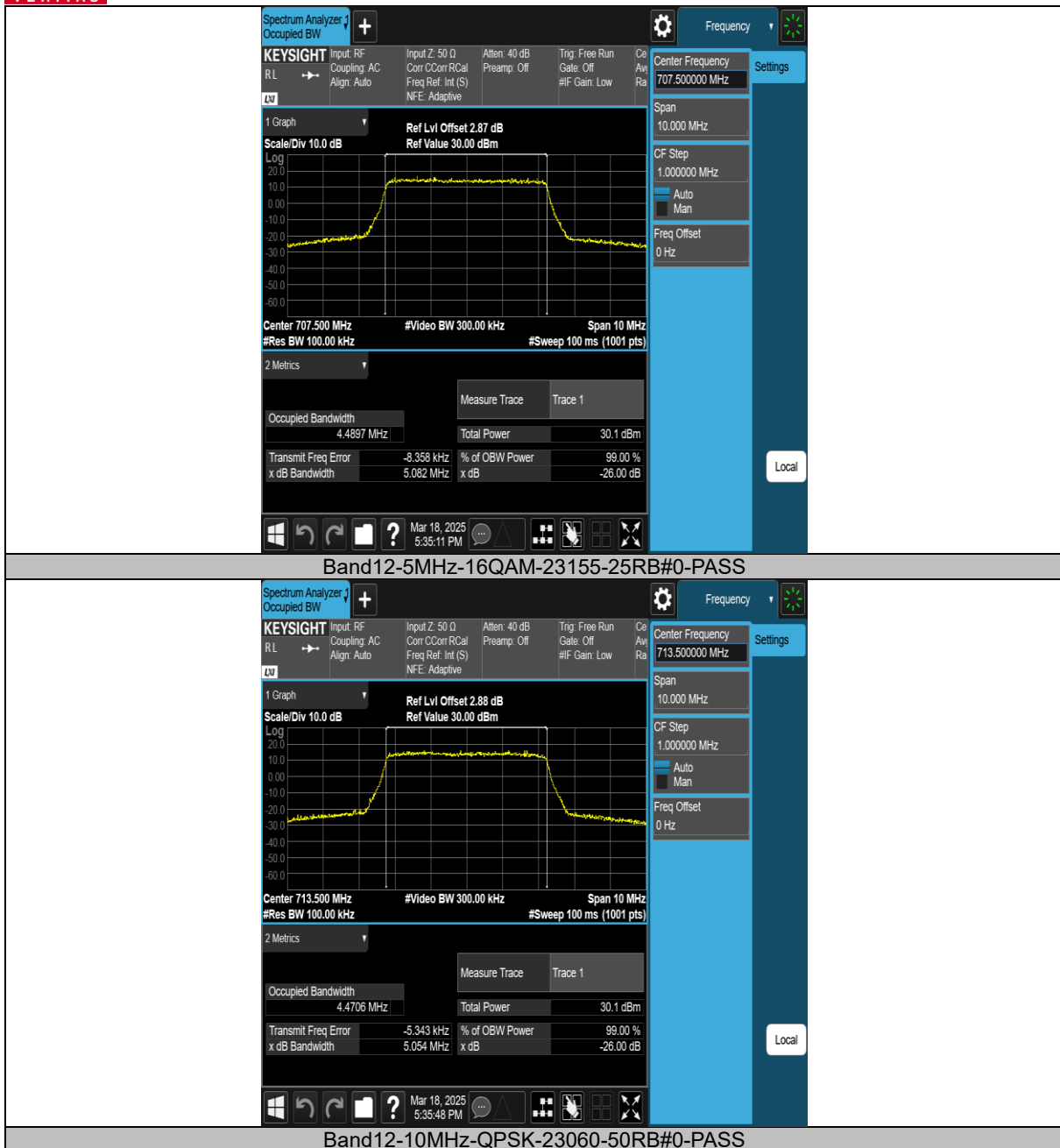
BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF03



Band12-5MHz-16QAM-23035-25RB#0-PASS



Band12-5MHz-16QAM-23095-25RB#0-PASS







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Band12-10MHz-16QAM-23060-27RB#0-PASS



Band12-10MHz-16QAM-23095-27RB#0-PASS



BUREAU VERITAS Test Report No.: PSU-QSZ2503050113RF03

