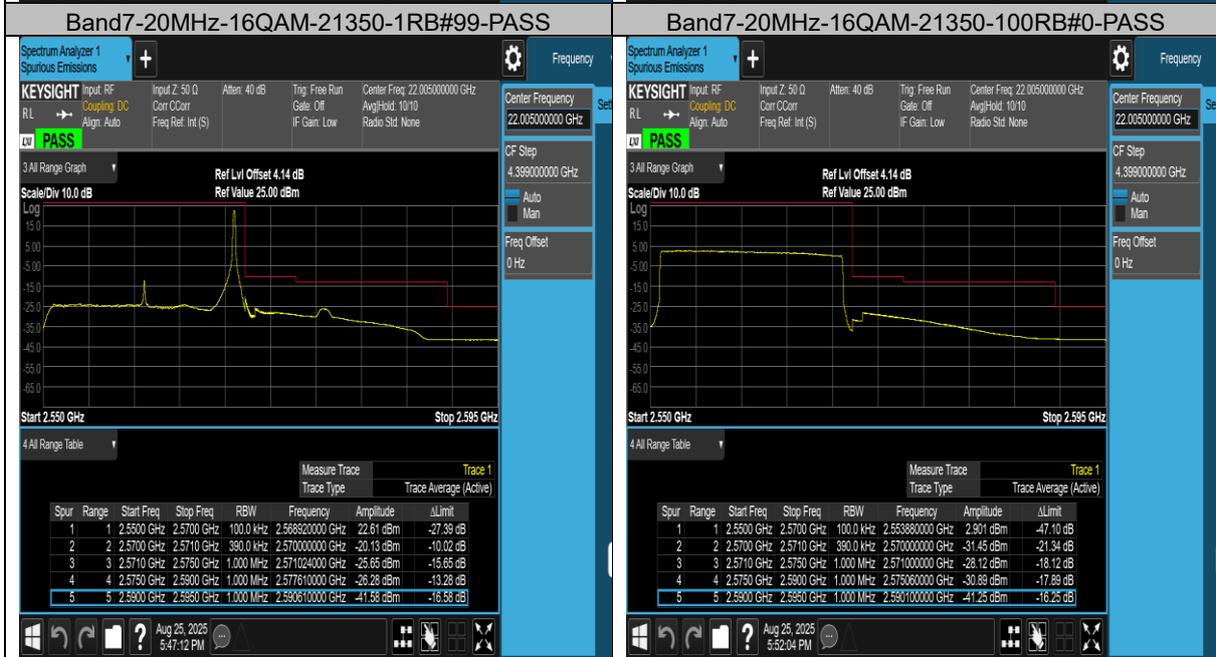




BUREAU VERITAS Test Report No.: PSU-QBJ2508070215RF03





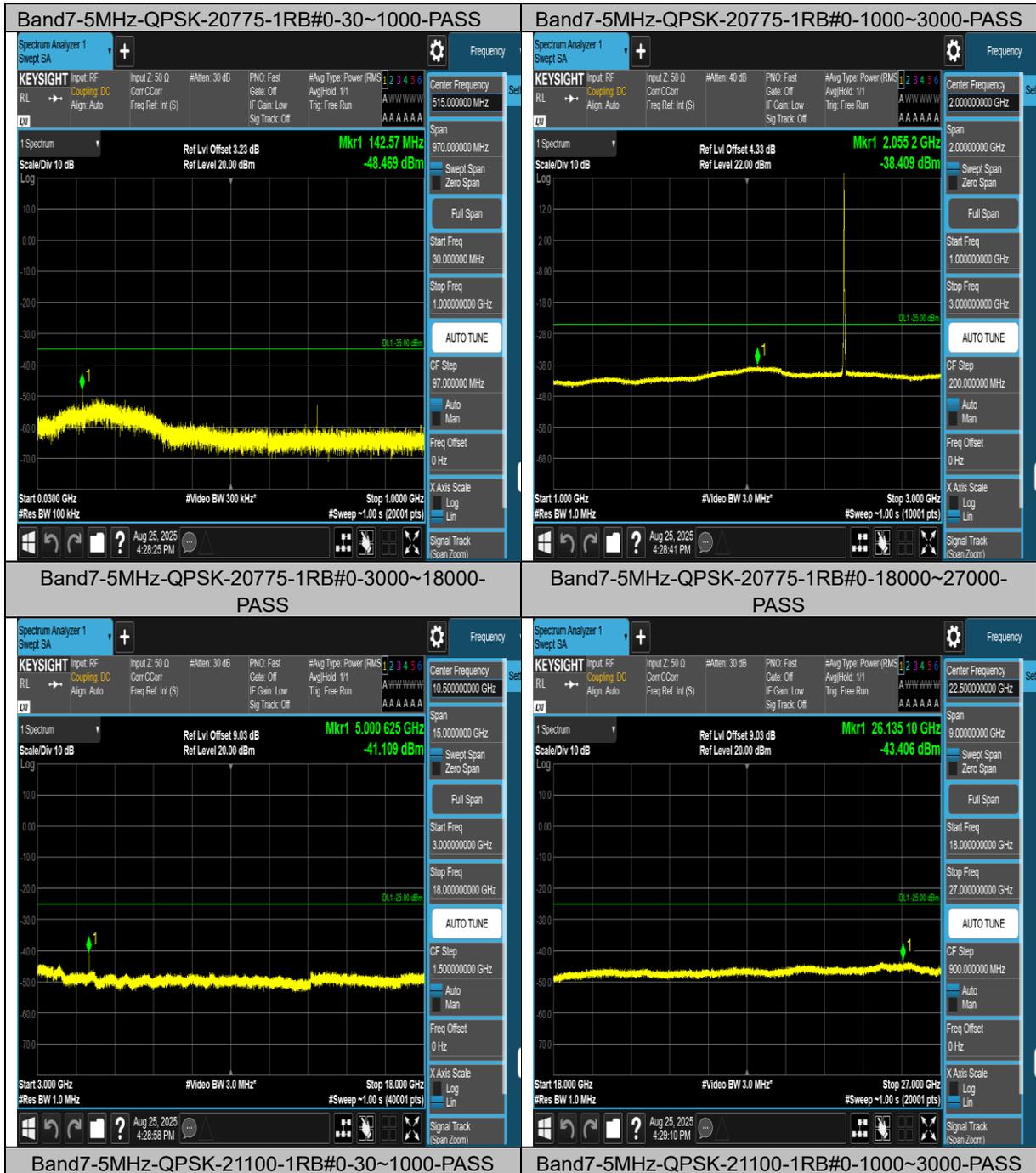
APPENDIX: CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	30~1000	-48.47	PASS
Band7	5MHz	QPSK	20775	1RB#0	1000~3000	-38.41	PASS
Band7	5MHz	QPSK	20775	1RB#0	3000~18000	-41.11	PASS
Band7	5MHz	QPSK	20775	1RB#0	18000~27000	-43.41	PASS
Band7	5MHz	QPSK	21100	1RB#0	30~1000	-50.21	PASS
Band7	5MHz	QPSK	21100	1RB#0	1000~3000	-48.01	PASS
Band7	5MHz	QPSK	21100	1RB#0	3000~18000	-43.90	PASS
Band7	5MHz	QPSK	21100	1RB#0	18000~27000	-43.42	PASS
Band7	5MHz	QPSK	21425	1RB#0	30~1000	-48.42	PASS
Band7	5MHz	QPSK	21425	1RB#0	1000~3000	-47.91	PASS
Band7	5MHz	QPSK	21425	1RB#0	3000~18000	-44.02	PASS
Band7	5MHz	QPSK	21425	1RB#0	18000~27000	-43.39	PASS
Band7	10MHz	QPSK	20800	1RB#0	30~1000	-47.41	PASS
Band7	10MHz	QPSK	20800	1RB#0	1000~3000	-44.45	PASS
Band7	10MHz	QPSK	20800	1RB#0	3000~18000	-43.79	PASS
Band7	10MHz	QPSK	20800	1RB#0	18000~27000	-43.32	PASS
Band7	10MHz	QPSK	21100	1RB#0	30~1000	-47.90	PASS
Band7	10MHz	QPSK	21100	1RB#0	1000~3000	-48.02	PASS
Band7	10MHz	QPSK	21100	1RB#0	3000~18000	-35.22	PASS
Band7	10MHz	QPSK	21100	1RB#0	18000~27000	-43.48	PASS
Band7	10MHz	QPSK	21400	1RB#0	30~1000	-49.41	PASS
Band7	10MHz	QPSK	21400	1RB#0	1000~3000	-47.92	PASS
Band7	10MHz	QPSK	21400	1RB#0	3000~18000	-43.07	PASS
Band7	10MHz	QPSK	21400	1RB#0	18000~27000	-43.39	PASS
Band7	15MHz	QPSK	20825	1RB#0	30~1000	-48.12	PASS
Band7	15MHz	QPSK	20825	1RB#0	1000~3000	-46.21	PASS
Band7	15MHz	QPSK	20825	1RB#0	3000~18000	-42.94	PASS
Band7	15MHz	QPSK	20825	1RB#0	18000~27000	-43.36	PASS
Band7	15MHz	QPSK	21100	1RB#0	30~1000	-48.48	PASS
Band7	15MHz	QPSK	21100	1RB#0	1000~3000	-47.86	PASS
Band7	15MHz	QPSK	21100	1RB#0	3000~18000	-43.87	PASS
Band7	15MHz	QPSK	21100	1RB#0	18000~27000	-43.17	PASS
Band7	15MHz	QPSK	21375	1RB#0	30~1000	-49.17	PASS
Band7	15MHz	QPSK	21375	1RB#0	1000~3000	-38.31	PASS
Band7	15MHz	QPSK	21375	1RB#0	3000~18000	-43.11	PASS
Band7	15MHz	QPSK	21375	1RB#0	18000~27000	-43.30	PASS
Band7	20MHz	QPSK	20850	1RB#0	30~1000	-50.12	PASS
Band7	20MHz	QPSK	20850	1RB#0	1000~3000	-38.08	PASS
Band7	20MHz	QPSK	20850	1RB#0	3000~18000	-43.02	PASS
Band7	20MHz	QPSK	20850	1RB#0	18000~27000	-43.47	PASS
Band7	20MHz	QPSK	21100	1RB#0	30~1000	-50.64	PASS
Band7	20MHz	QPSK	21100	1RB#0	1000~3000	-38.26	PASS
Band7	20MHz	QPSK	21100	1RB#0	3000~18000	-43.77	PASS
Band7	20MHz	QPSK	21100	1RB#0	18000~27000	-43.23	PASS
Band7	20MHz	QPSK	21350	1RB#0	30~1000	-49.13	PASS
Band7	20MHz	QPSK	21350	1RB#0	1000~3000	-39.38	PASS
Band7	20MHz	QPSK	21350	1RB#0	3000~18000	-42.42	PASS
Band7	20MHz	QPSK	21350	1RB#0	18000~27000	-43.12	PASS

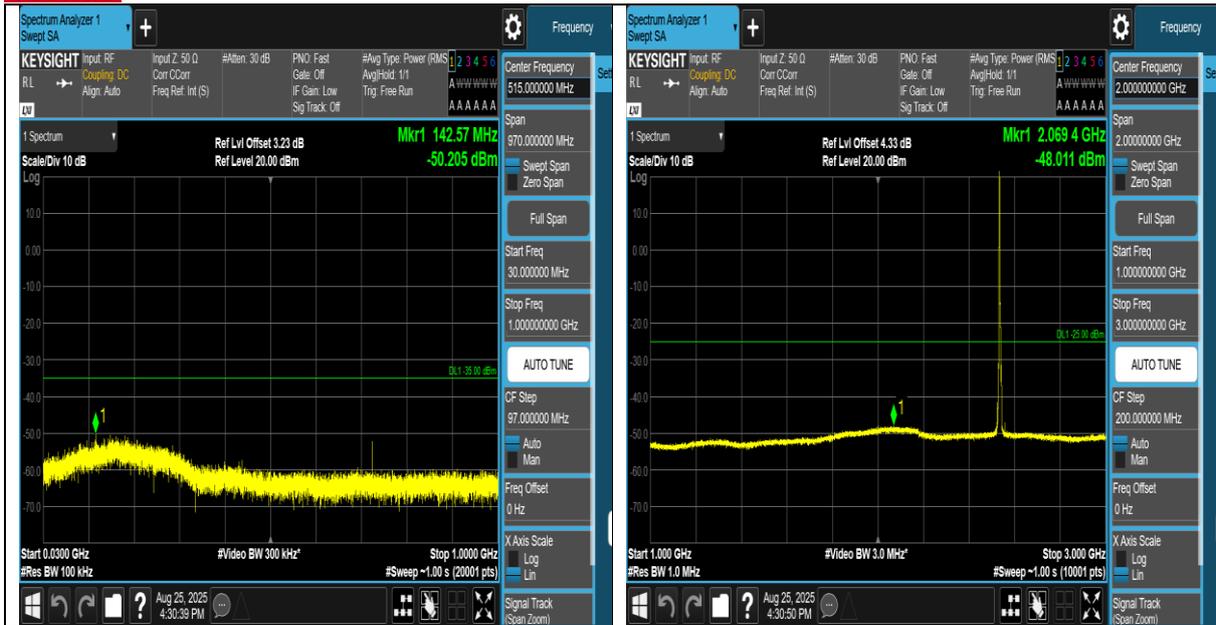


Test Graphs



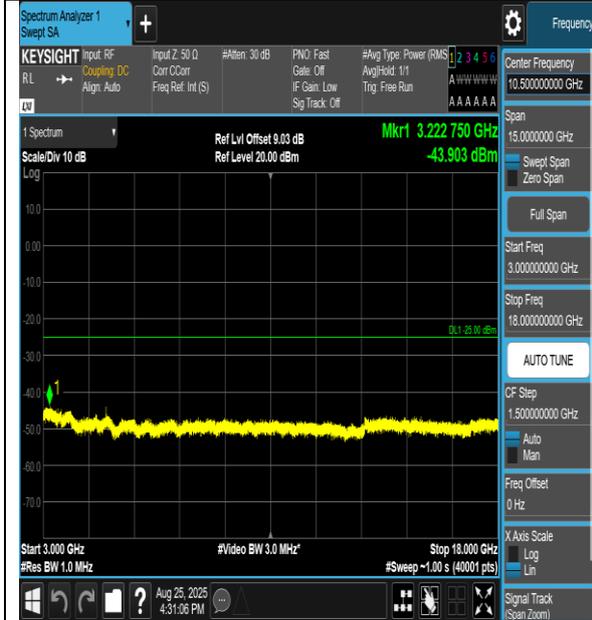


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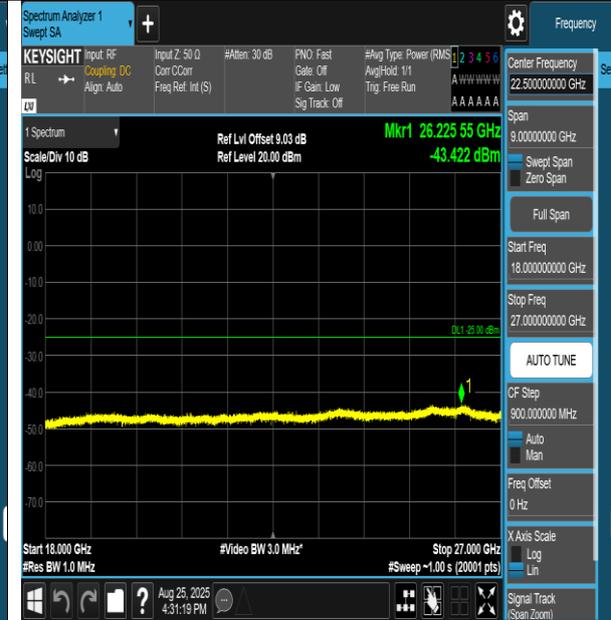


Band7-5MHz-QPSK-21100-1RB#0-3000~18000-PASS

Band7-5MHz-QPSK-21100-1RB#0-18000~27000-PASS



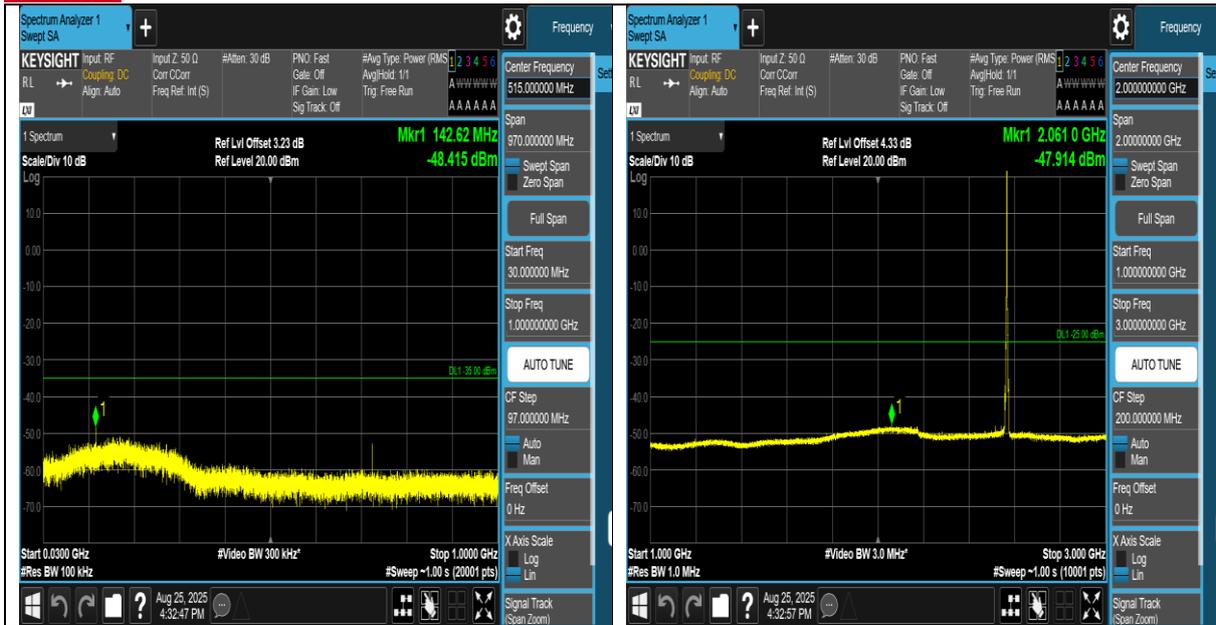
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Band7-5MHz-QPSK-21425-1RB#0-1000~3000-PASS



BUREAU VERITAS Test Report No.: PSU-QBJ2508070215RF03



Band7-5MHz-QPSK-21425-1RB#0-3000~18000-PASS

Band7-5MHz-QPSK-21425-1RB#0-18000~27000-PASS

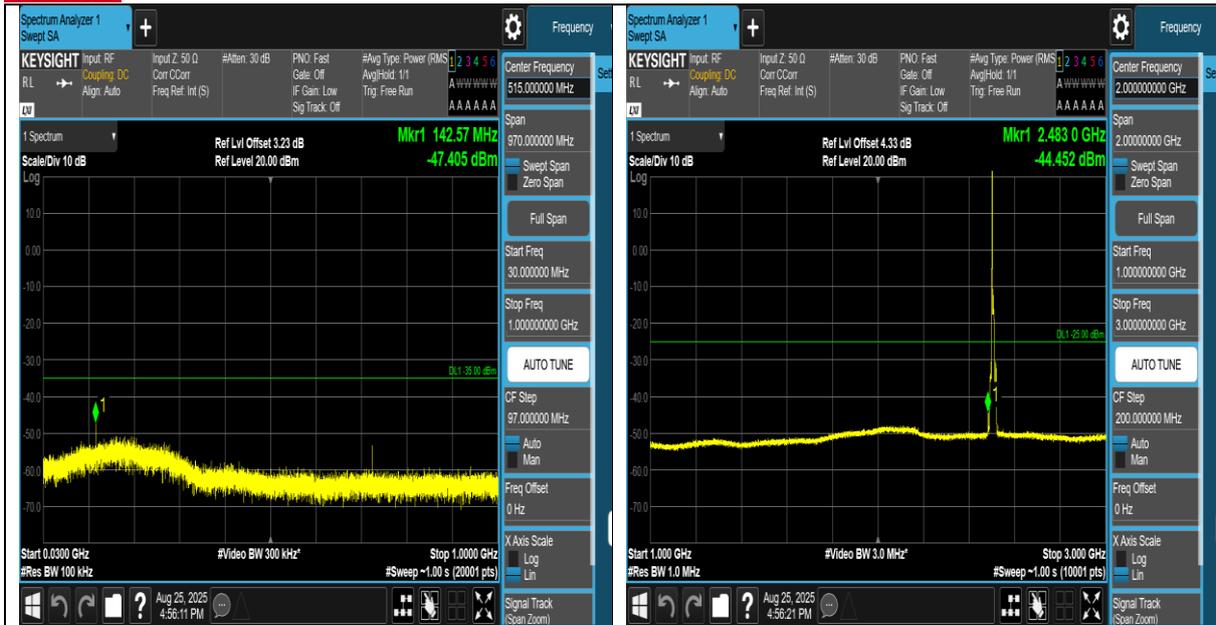


Band7-10MHz-QPSK-20800-1RB#0-30~1000-PASS

Band7-10MHz-QPSK-20800-1RB#0-1000~3000-PASS

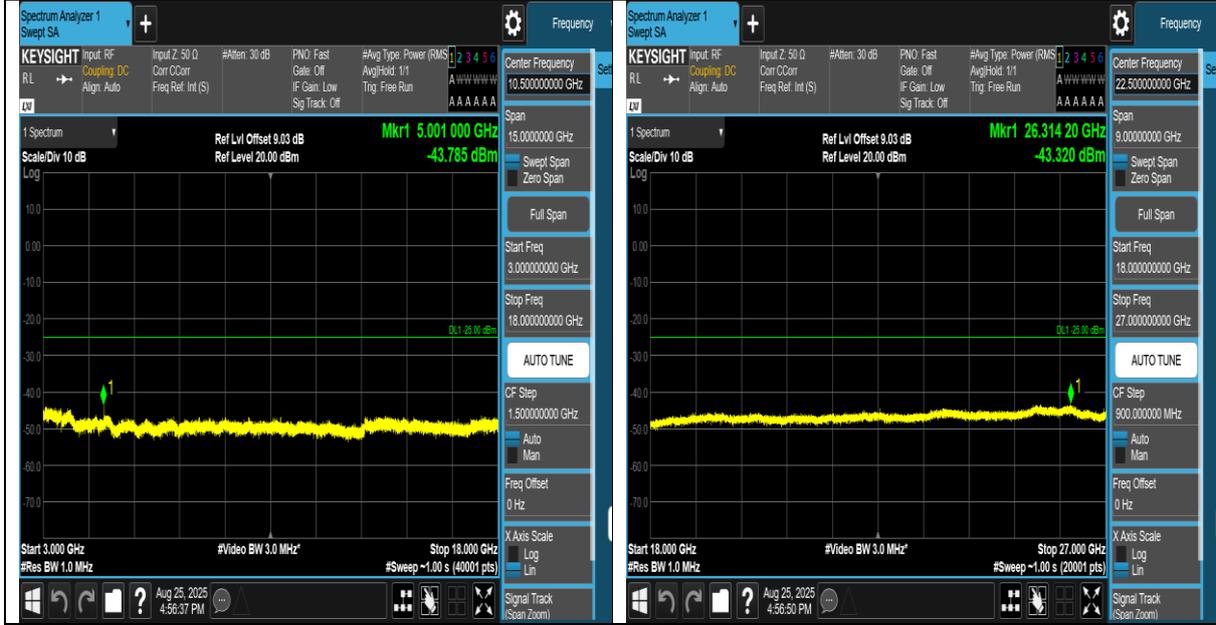


BUREAU VERITAS Test Report No.: PSU-QBJ2508070215RF03



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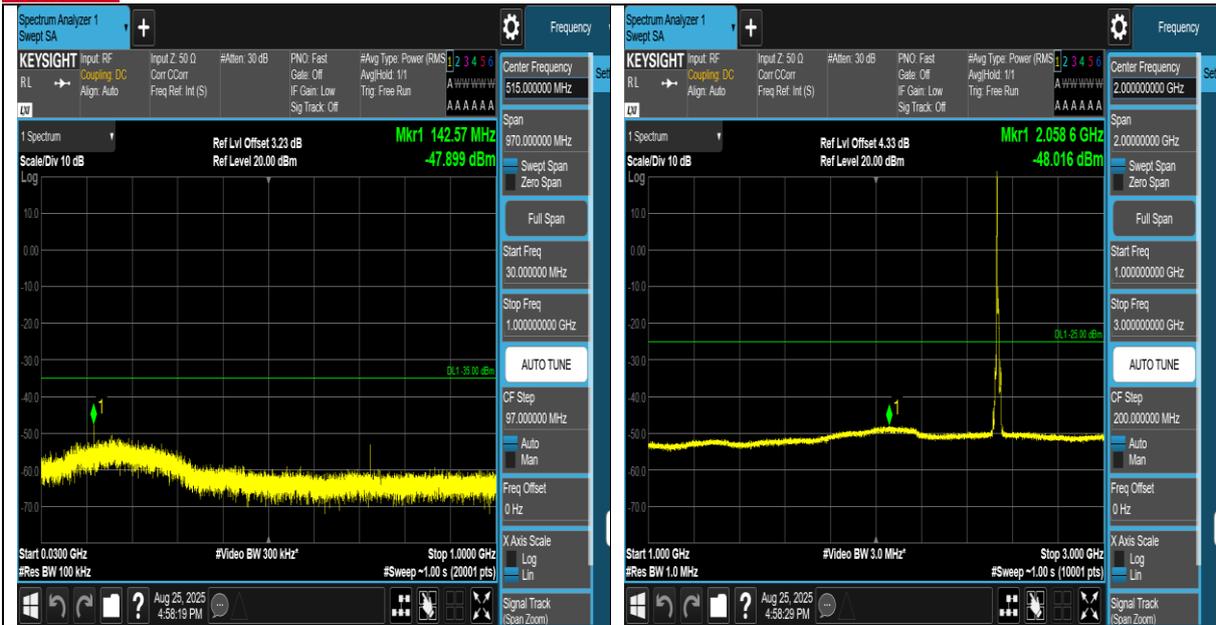


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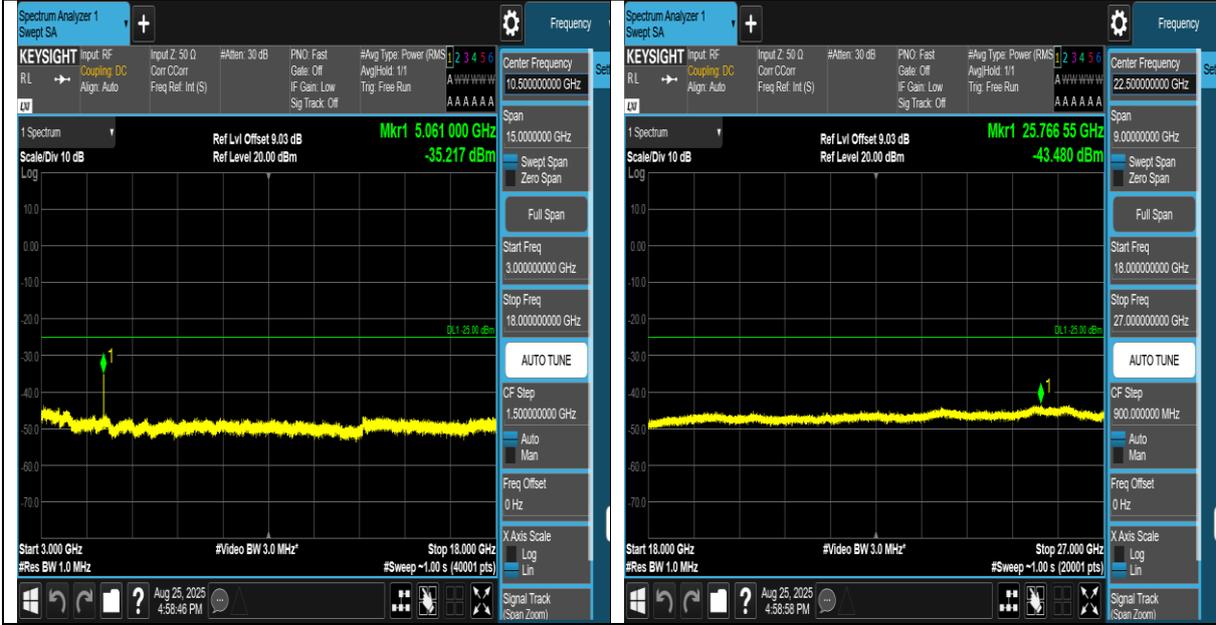


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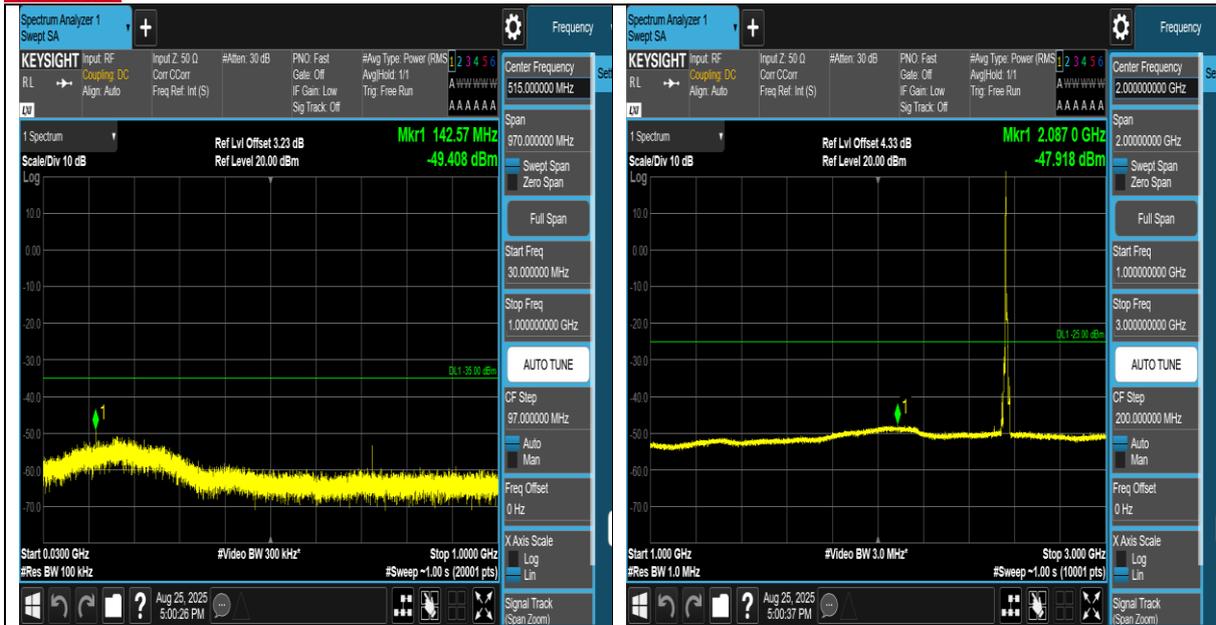


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Band7-10MHz-QPSK-21400-1RB#0-1000~3000-PASS



BUREAU VERITAS Test Report No.: PSU-QBJ2508070215RF03



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Band7-10MHz-QPSK-21400-1RB#0-18000~27000-PASS

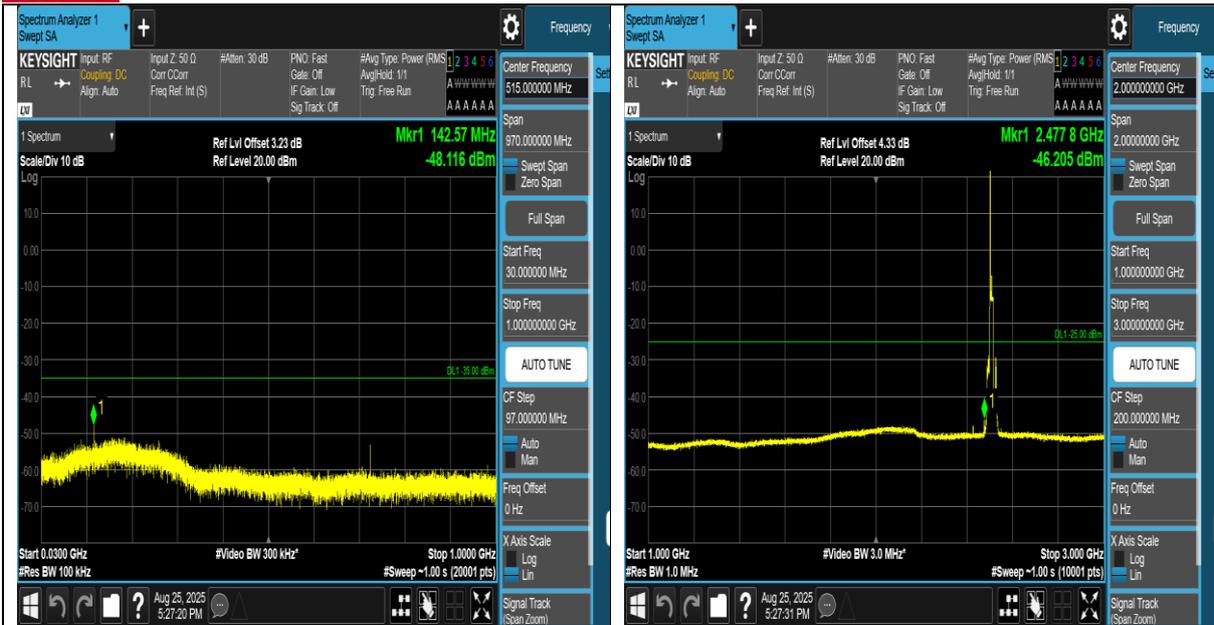


Band7-15MHz-QPSK-20825-1RB#0-30~1000-PASS

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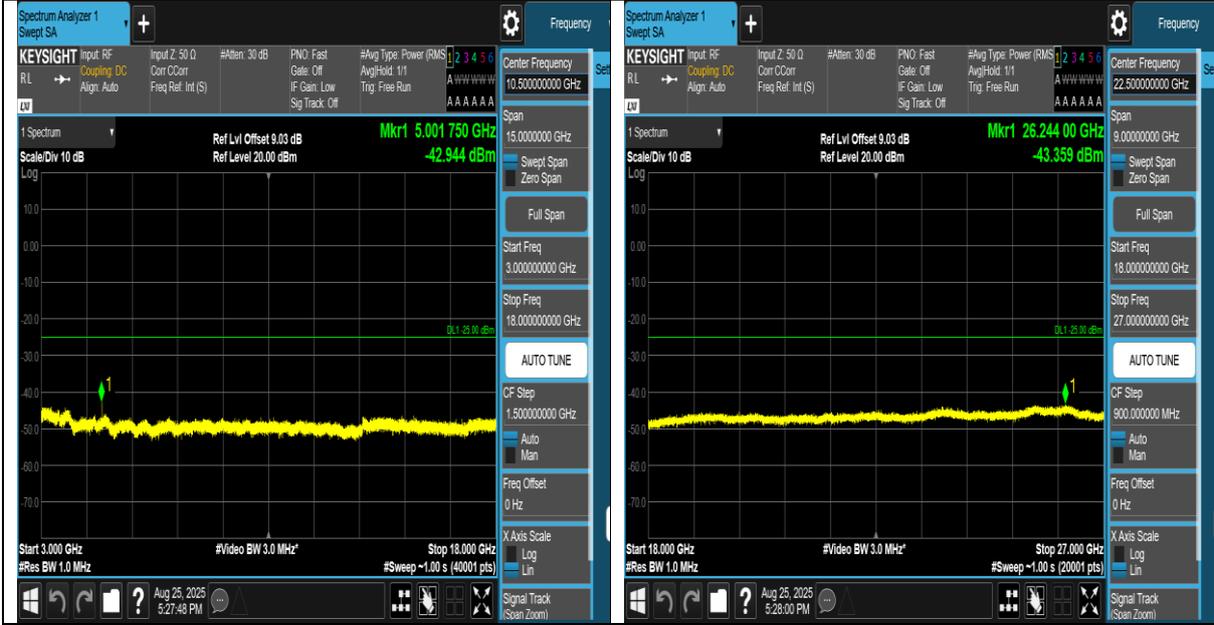


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Band7-15MHz-QPSK-20825-1RB#0-3000~18000-PASS

Band7-15MHz-QPSK-20825-1RB#0-18000~27000-PASS

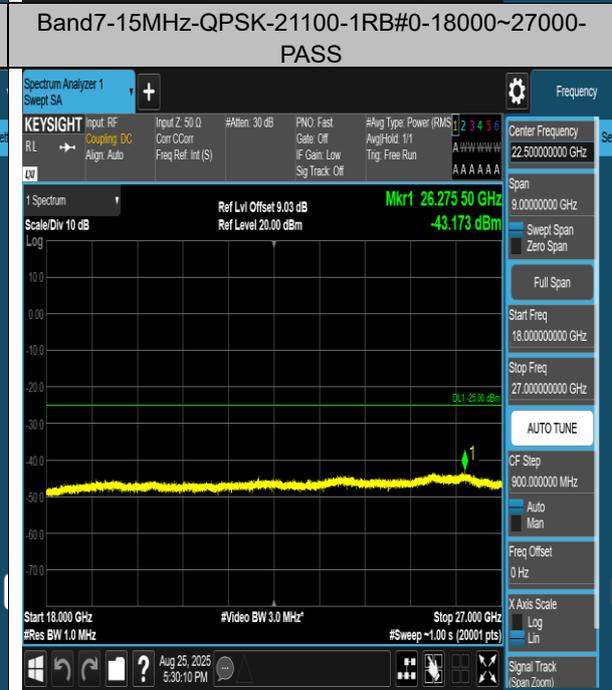
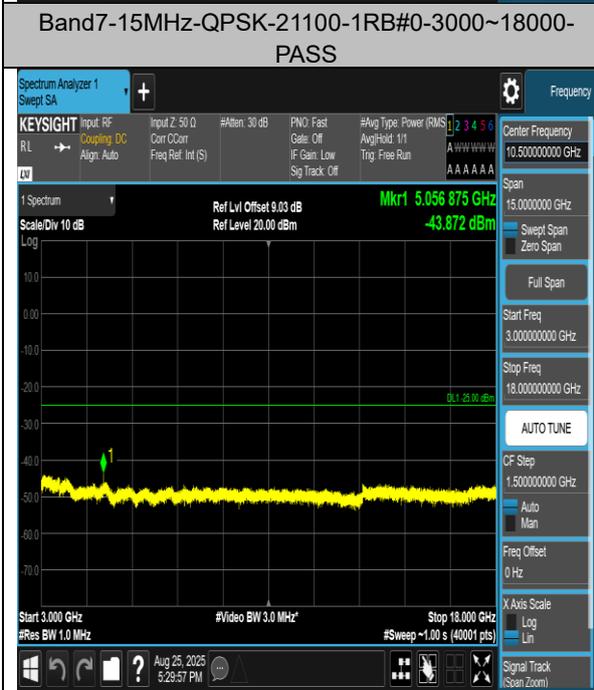
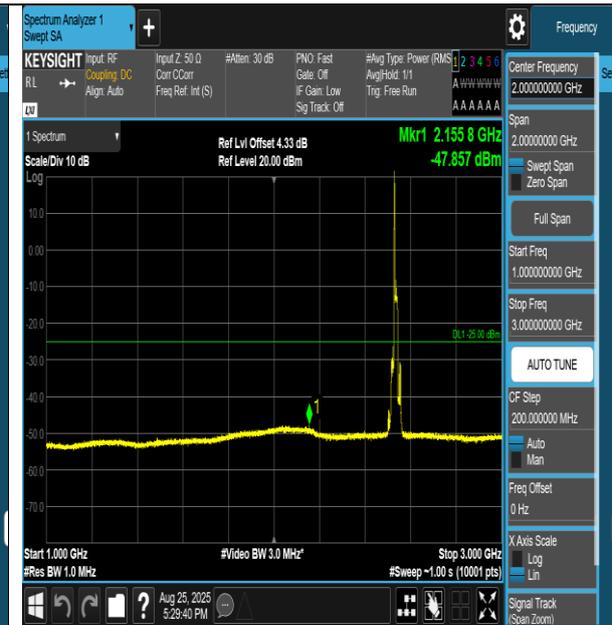
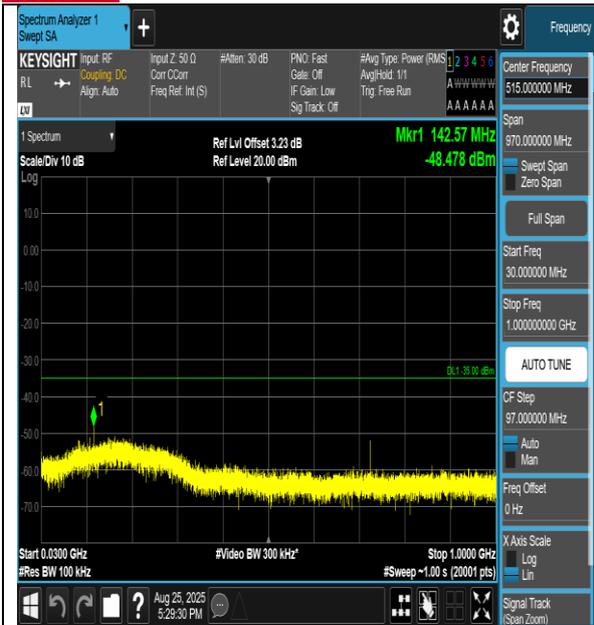


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Band7-15MHz-QPSK-21100-1RB#0-1000~3000-PASS

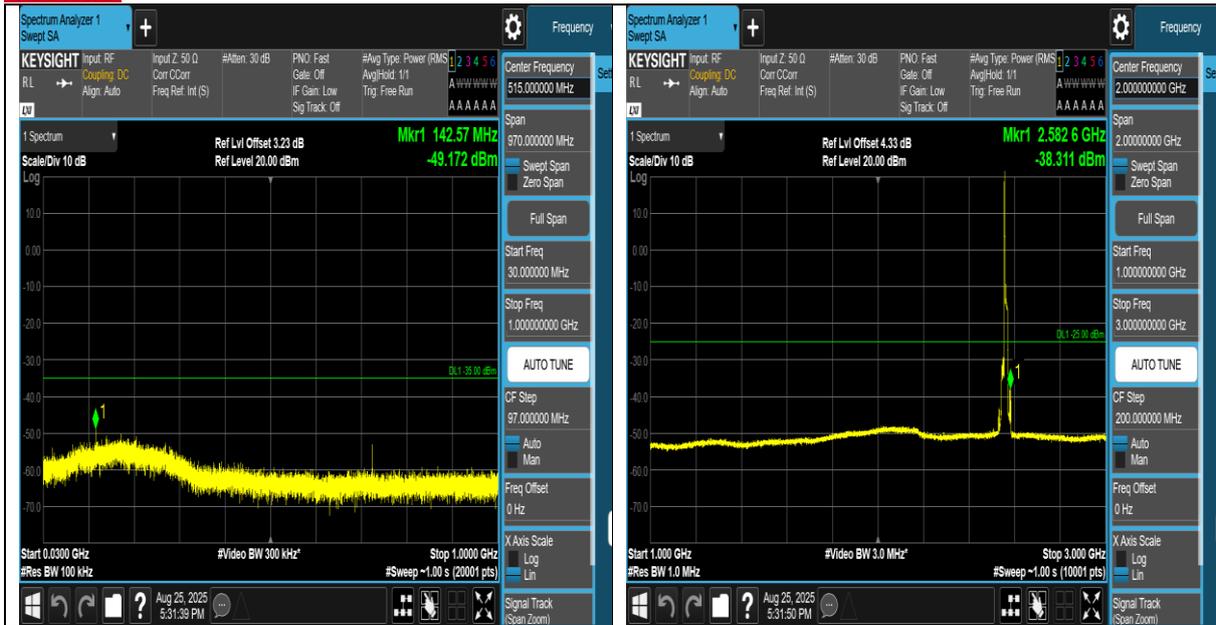


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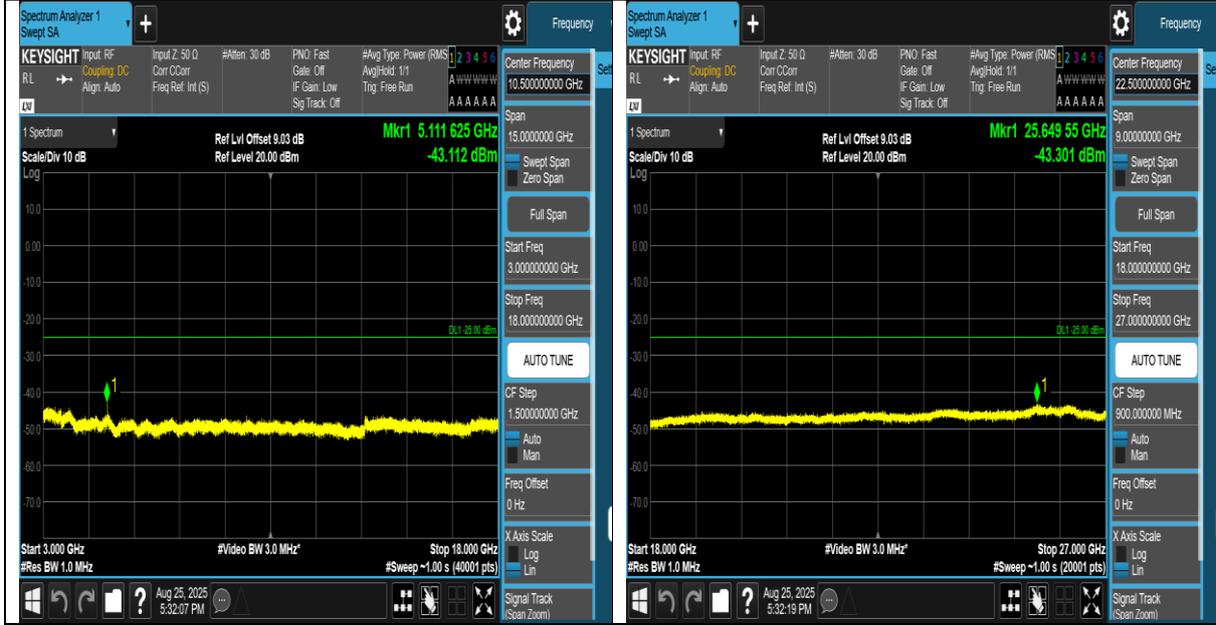


BUREAU VERITAS Test Report No.: PSU-QBJ2508070215RF03



Band7-15MHz-QPSK-21375-1RB#0-3000~18000-PASS

Band7-15MHz-QPSK-21375-1RB#0-18000~27000-PASS

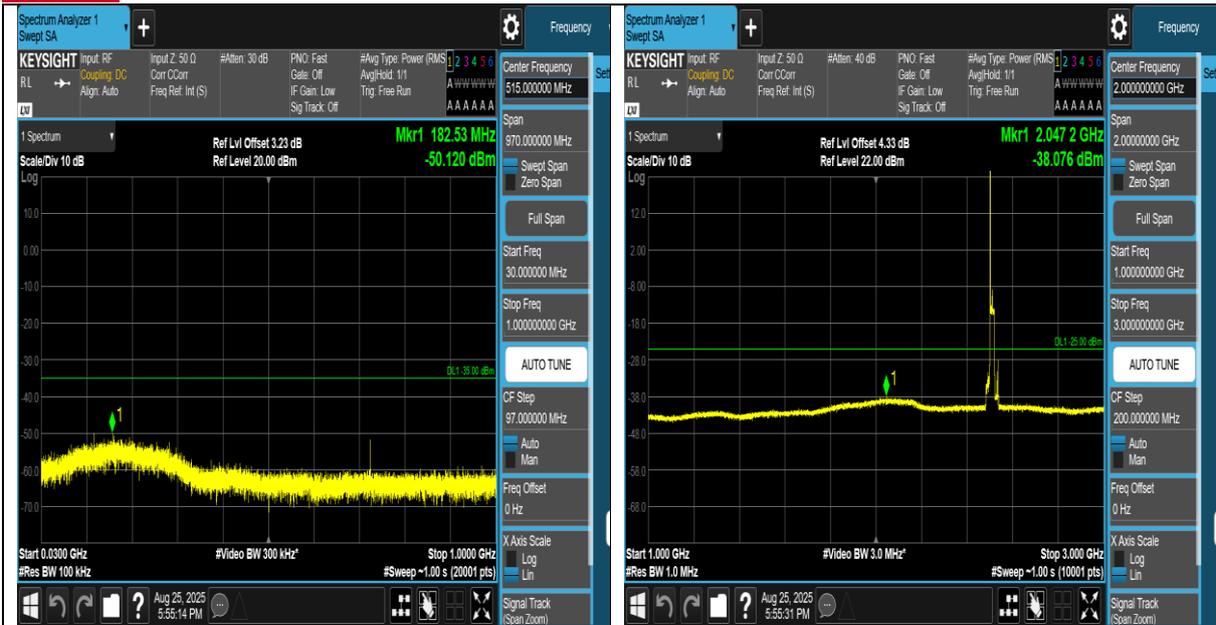


Band7-20MHz-QPSK-20850-1RB#0-30~1000-PASS

Band7-20MHz-QPSK-20850-1RB#0-1000~3000-PASS



BUREAU VERITAS Test Report No.: PSU-QBJ2508070215RF03



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Band7-20MHz-QPSK-20850-1RB#0-18000~27000-PASS

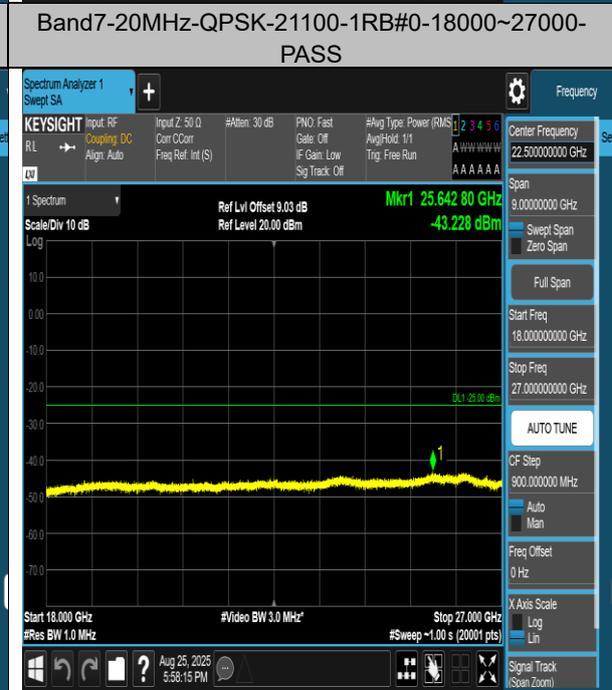
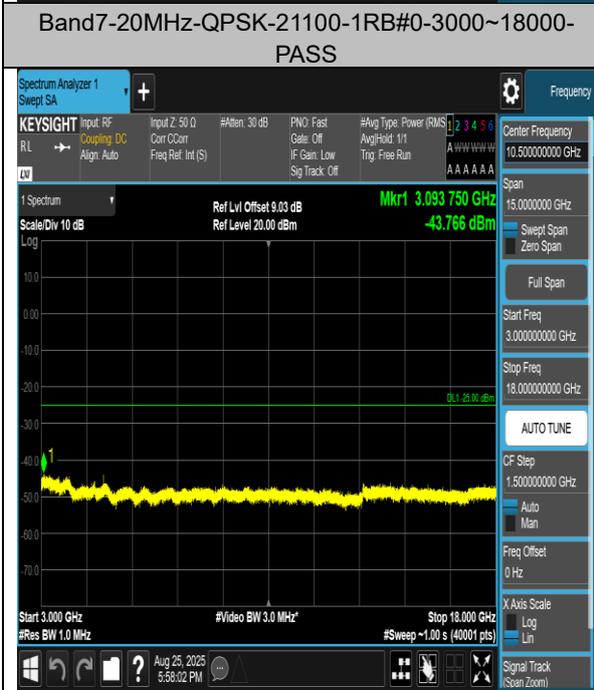
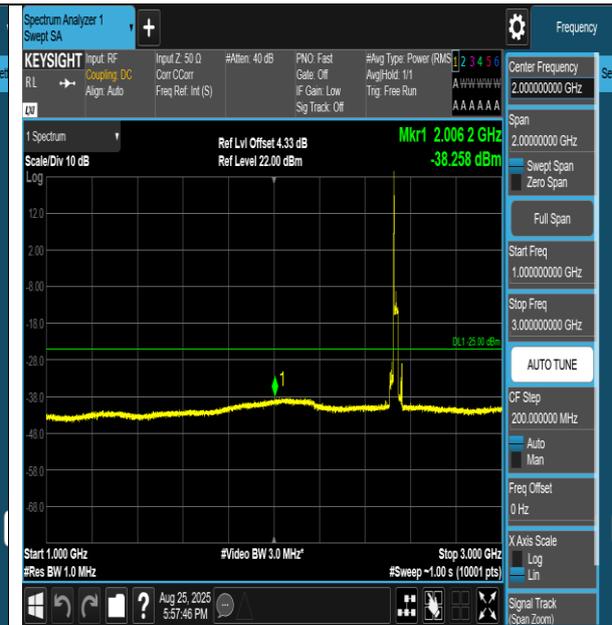
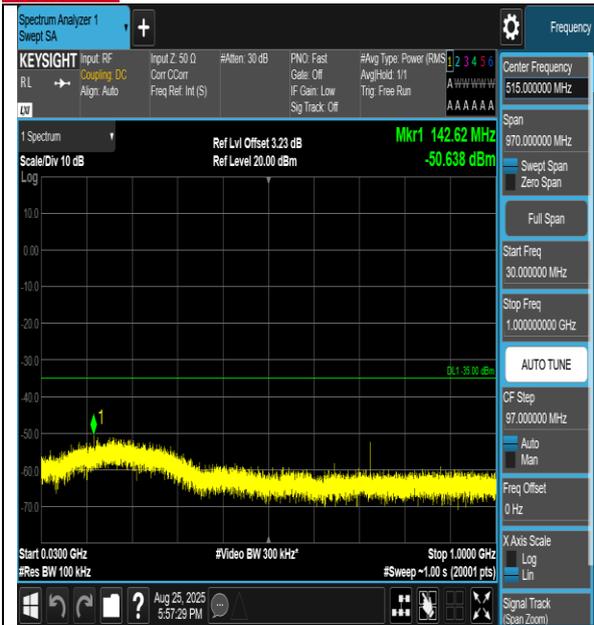


Band7-20MHz-QPSK-21100-1RB#0-30~1000-PASS

Band7-20MHz-QPSK-21100-1RB#0-1000~3000-PASS

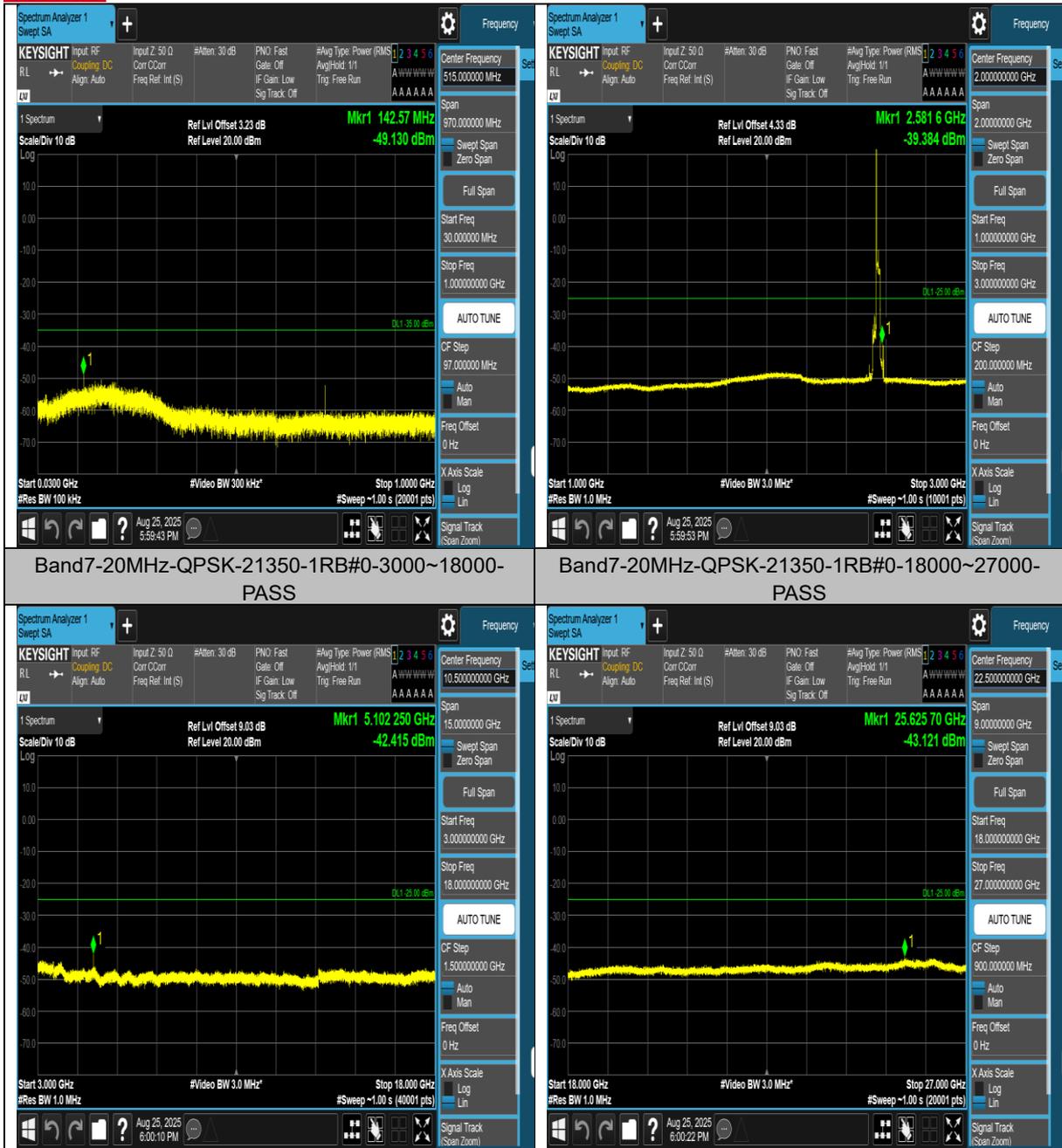


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BUREAU VERITAS Test Report No.: PSU-QBJ2508070215RF03



Huarui 7layers High Technology (Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Tel: +86 (0557) 368 1008



APPENDIX : FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band 7	10MHz	QPSK	20800	50RB#0	VN	NT	-13.40	- 0.005349	±2.5	PASS
Band 7	10MHz	QPSK	20800	50RB#0	VL	NT	-9.20	- 0.003673	±2.5	PASS
Band 7	10MHz	QPSK	20800	50RB#0	VH	NT	7.87	0.003142	±2.5	PASS
Band 7	10MHz	QPSK	21400	50RB#0	VN	NT	8.83	0.003442	±2.5	PASS
Band 7	10MHz	QPSK	21400	50RB#0	VL	NT	15.30	0.005965	±2.5	PASS
Band 7	10MHz	QPSK	21400	50RB#0	VH	NT	-14.59	- 0.005688	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band 7	10MHz	QPSK	20800	50RB#0	NV	-30	6.88	0.002747	±2.5	PASS
Band 7	10MHz	QPSK	20800	50RB#0	NV	-20	-14.49	- 0.005784	±2.5	PASS
Band 7	10MHz	QPSK	20800	50RB#0	NV	-10	5.89	0.002351	±2.5	PASS
Band 7	10MHz	QPSK	20800	50RB#0	NV	0	5.02	0.002004	±2.5	PASS
Band 7	10MHz	QPSK	20800	50RB#0	NV	10	-14.82	- 0.005916	±2.5	PASS
Band 7	10MHz	QPSK	20800	50RB#0	NV	20	-11.25	- 0.004491	±2.5	PASS
Band 7	10MHz	QPSK	20800	50RB#0	NV	30	-10.89	- 0.004347	±2.5	PASS
Band 7	10MHz	QPSK	20800	50RB#0	NV	40	-19.56	- 0.007808	±2.5	PASS
Band 7	10MHz	QPSK	20800	50RB#0	NV	50	3.58	0.001429	±2.5	PASS
Band 7	10MHz	QPSK	21400	50RB#0	NV	-30	-16.08	- 0.006269	±2.5	PASS



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Band 7	10MHz	QPSK	21400	50RB#0	NV	-20	6.06	0.0023 63	±2.5	PASS
Band 7	10MHz	QPSK	21400	50RB#0	NV	-10	8.66	0.0033 76	±2.5	PASS
Band 7	10MHz	QPSK	21400	50RB#0	NV	0	-20.04	- 0.0078 13	±2.5	PASS
Band 7	10MHz	QPSK	21400	50RB#0	NV	10	8.82	0.0034 39	±2.5	PASS
Band 7	10MHz	QPSK	21400	50RB#0	NV	20	-10.39	- 0.0040 51	±2.5	PASS
Band 7	10MHz	QPSK	21400	50RB#0	NV	30	-15.58	- 0.0060 74	±2.5	PASS
Band 7	10MHz	QPSK	21400	50RB#0	NV	40	-9.87	- 0.0038 48	±2.5	PASS
Band 7	10MHz	QPSK	21400	50RB#0	NV	50	-8.61	- 0.0033 57	±2.5	PASS

LTE B12 (INCLUDING B17)

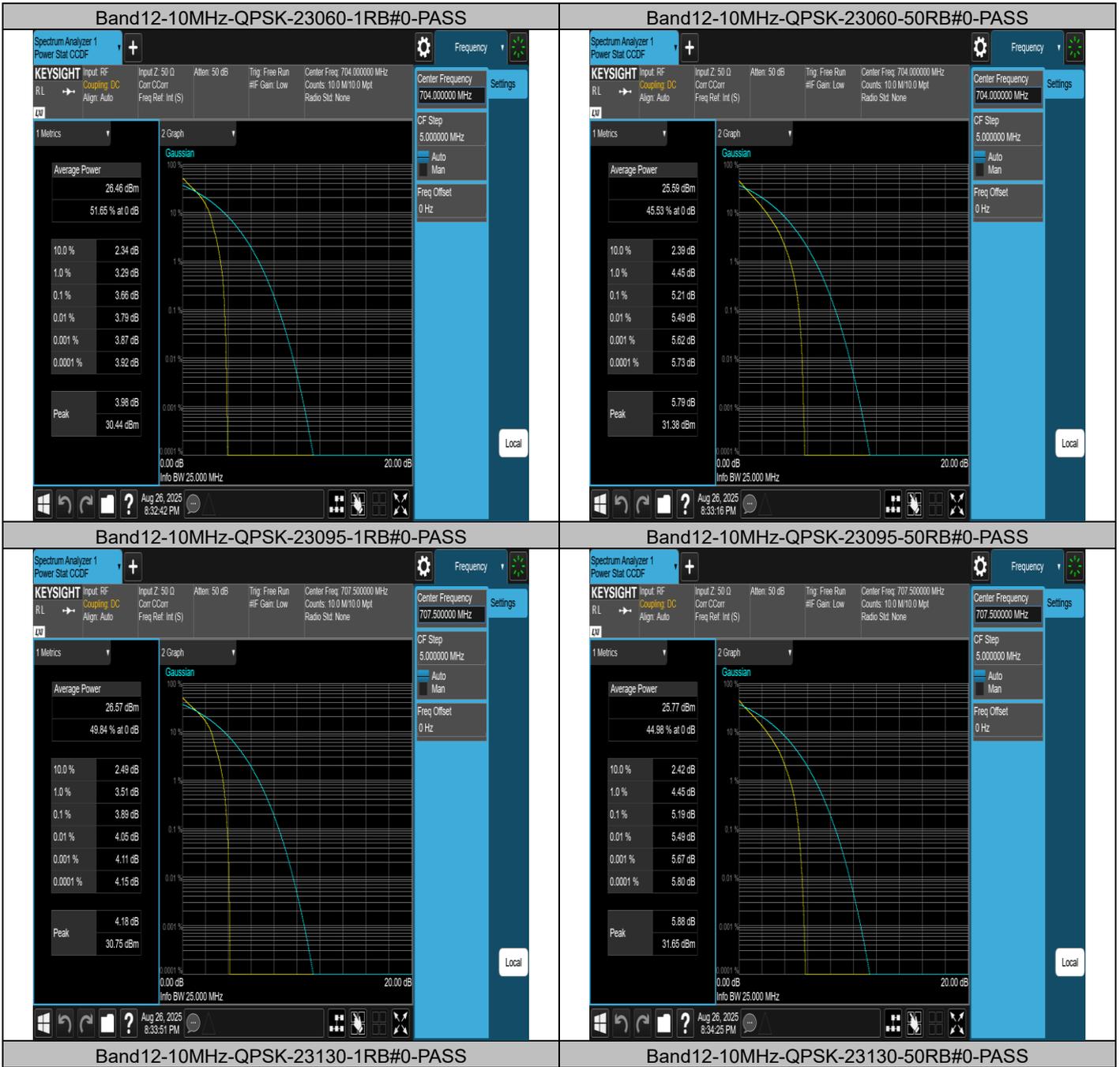
APPENDIX : PEAK-TO-AVERAGE RATIO(CCDF)

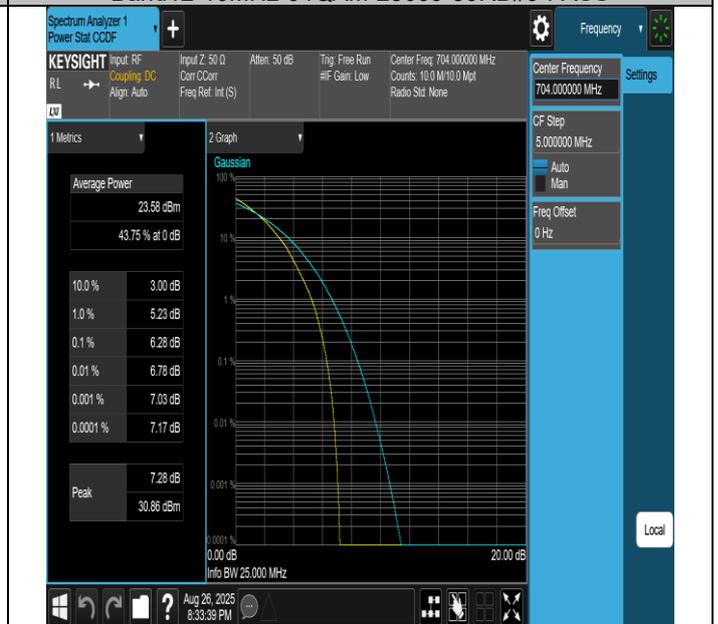
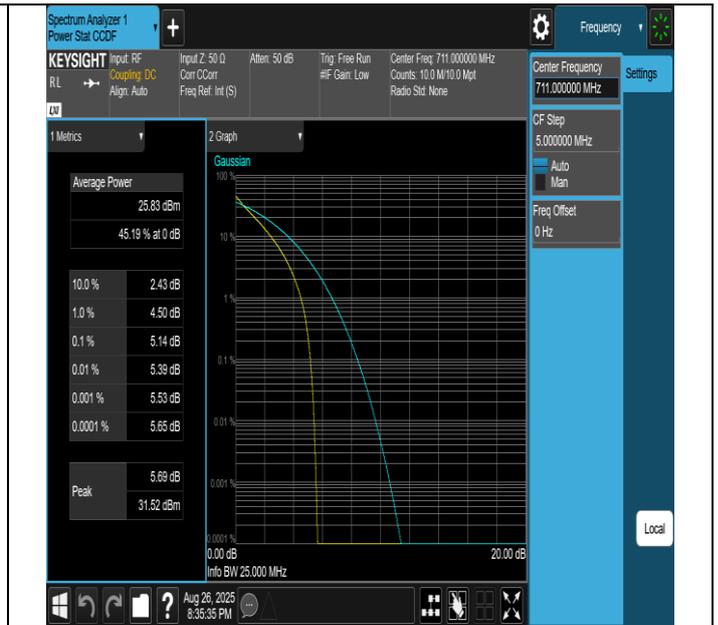
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	1RB#0	3.66	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.21	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	3.89	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.19	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	3.39	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.14	13	PASS
Band12	10MHz	64QAM	23060	1RB#0	5.61	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.28	13	PASS
Band12	10MHz	64QAM	23095	1RB#0	5.55	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.36	13	PASS
Band12	10MHz	64QAM	23130	1RB#0	5.07	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.21	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	4.70	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.06	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.04	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.07	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	4.38	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.93	13	PASS



Test Graphs







Band12-10MHz-64QAM-23130-1RB#0-PASS



Band12-10MHz-64QAM-23130-50RB#0-PASS



Band12-10MHz-16QAM-23060-1RB#0-PASS



Band12-10MHz-16QAM-23060-50RB#0-PASS