

Appendix for LTE Band 26

Product Name: Smart Hub

Model No: ASH120

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
26(814-824)	1.4MHz	QPSK	26697	1RB#0	22.72	PASS
26(814-824)	1.4MHz	16QAM	26697	1RB#0	21.76	PASS
26(814-824)	1.4MHz	QPSK	26697	1RB#2	22.86	PASS
26(814-824)	1.4MHz	16QAM	26697	1RB#2	21.99	PASS
26(814-824)	1.4MHz	QPSK	26697	1RB#5	22.80	PASS
26(814-824)	1.4MHz	16QAM	26697	1RB#5	21.97	PASS
26(814-824)	1.4MHz	QPSK	26697	3RB#0	22.82	PASS
26(814-824)	1.4MHz	16QAM	26697	3RB#0	21.68	PASS
26(814-824)	1.4MHz	QPSK	26697	3RB#1	22.98	PASS
26(814-824)	1.4MHz	16QAM	26697	3RB#1	21.65	PASS
26(814-824)	1.4MHz	QPSK	26697	3RB#3	22.74	PASS
26(814-824)	1.4MHz	16QAM	26697	3RB#3	21.64	PASS
26(814-824)	1.4MHz	QPSK	26697	6RB#0	21.87	PASS
26(814-824)	1.4MHz	16QAM	26697	6RB#0	20.92	PASS
26(814-824)	1.4MHz	QPSK	26740	1RB#0	22.63	PASS
26(814-824)	1.4MHz	16QAM	26740	1RB#0	21.59	PASS
26(814-824)	1.4MHz	QPSK	26740	1RB#2	22.62	PASS
26(814-824)	1.4MHz	16QAM	26740	1RB#2	21.85	PASS
26(814-824)	1.4MHz	QPSK	26740	1RB#5	22.78	PASS
26(814-824)	1.4MHz	16QAM	26740	1RB#5	21.71	PASS
26(814-824)	1.4MHz	QPSK	26740	3RB#0	22.72	PASS
26(814-824)	1.4MHz	16QAM	26740	3RB#0	21.67	PASS
26(814-824)	1.4MHz	QPSK	26740	3RB#1	22.71	PASS
26(814-824)	1.4MHz	16QAM	26740	3RB#1	21.45	PASS
26(814-824)	1.4MHz	QPSK	26740	3RB#3	22.70	PASS
26(814-824)	1.4MHz	16QAM	26740	3RB#3	21.52	PASS
26(814-824)	1.4MHz	QPSK	26740	6RB#0	21.73	PASS
26(814-824)	1.4MHz	16QAM	26740	6RB#0	20.58	PASS
26(814-824)	1.4MHz	QPSK	26783	1RB#0	22.83	PASS
26(814-824)	1.4MHz	16QAM	26783	1RB#0	21.69	PASS
26(814-824)	1.4MHz	QPSK	26783	1RB#2	22.78	PASS
26(814-824)	1.4MHz	16QAM	26783	1RB#2	22.34	PASS
26(814-824)	1.4MHz	QPSK	26783	1RB#5	22.95	PASS
26(814-824)	1.4MHz	16QAM	26783	1RB#5	21.53	PASS
26(814-824)	1.4MHz	QPSK	26783	3RB#0	22.92	PASS

26(814-824)	1.4MHz	16QAM	26783	3RB#0	21.77	PASS
26(814-824)	1.4MHz	QPSK	26783	3RB#1	22.91	PASS
26(814-824)	1.4MHz	16QAM	26783	3RB#1	21.66	PASS
26(814-824)	1.4MHz	QPSK	26783	3RB#3	22.76	PASS
26(814-824)	1.4MHz	16QAM	26783	3RB#3	21.67	PASS
26(814-824)	1.4MHz	QPSK	26783	6RB#0	21.78	PASS
26(814-824)	1.4MHz	16QAM	26783	6RB#0	20.85	PASS
26(814-824)	3MHz	QPSK	26705	1RB#0	22.86	PASS
26(814-824)	3MHz	16QAM	26705	1RB#0	21.53	PASS
26(814-824)	3MHz	QPSK	26705	1RB#8	22.56	PASS
26(814-824)	3MHz	16QAM	26705	1RB#8	21.48	PASS
26(814-824)	3MHz	QPSK	26705	1RB#14	22.56	PASS
26(814-824)	3MHz	16QAM	26705	1RB#14	21.50	PASS
26(814-824)	3MHz	QPSK	26705	8RB#0	21.48	PASS
26(814-824)	3MHz	16QAM	26705	8RB#0	20.67	PASS
26(814-824)	3MHz	QPSK	26705	8RB#4	21.60	PASS
26(814-824)	3MHz	16QAM	26705	8RB#4	20.68	PASS
26(814-824)	3MHz	QPSK	26705	8RB#7	21.57	PASS
26(814-824)	3MHz	16QAM	26705	8RB#7	21.12	PASS
26(814-824)	3MHz	QPSK	26705	15RB#0	21.59	PASS
26(814-824)	3MHz	16QAM	26705	15RB#0	20.57	PASS
26(814-824)	3MHz	QPSK	26740	1RB#0	22.89	PASS
26(814-824)	3MHz	16QAM	26740	1RB#0	21.58	PASS
26(814-824)	3MHz	QPSK	26740	1RB#8	22.54	PASS
26(814-824)	3MHz	16QAM	26740	1RB#8	21.29	PASS
26(814-824)	3MHz	QPSK	26740	1RB#14	22.67	PASS
26(814-824)	3MHz	16QAM	26740	1RB#14	21.36	PASS
26(814-824)	3MHz	QPSK	26740	8RB#0	21.66	PASS
26(814-824)	3MHz	16QAM	26740	8RB#0	20.55	PASS
26(814-824)	3MHz	QPSK	26740	8RB#4	21.58	PASS
26(814-824)	3MHz	16QAM	26740	8RB#4	20.72	PASS
26(814-824)	3MHz	QPSK	26740	8RB#7	21.69	PASS
26(814-824)	3MHz	16QAM	26740	8RB#7	20.55	PASS
26(814-824)	3MHz	QPSK	26740	15RB#0	21.59	PASS
26(814-824)	3MHz	16QAM	26740	15RB#0	20.40	PASS
26(814-824)	3MHz	QPSK	26775	1RB#0	22.68	PASS
26(814-824)	3MHz	16QAM	26775	1RB#0	21.70	PASS
26(814-824)	3MHz	QPSK	26775	1RB#8	22.80	PASS
26(814-824)	3MHz	16QAM	26775	1RB#8	21.77	PASS
26(814-824)	3MHz	QPSK	26775	1RB#14	23.12	PASS
26(814-824)	3MHz	16QAM	26775	1RB#14	22.05	PASS
26(814-824)	3MHz	QPSK	26775	8RB#0	21.62	PASS

26(814-824)	3MHz	16QAM	26775	8RB#0	20.70	PASS
26(814-824)	3MHz	QPSK	26775	8RB#4	21.76	PASS
26(814-824)	3MHz	16QAM	26775	8RB#4	20.71	PASS
26(814-824)	3MHz	QPSK	26775	8RB#7	21.85	PASS
26(814-824)	3MHz	16QAM	26775	8RB#7	21.01	PASS
26(814-824)	3MHz	QPSK	26775	15RB#0	21.79	PASS
26(814-824)	3MHz	16QAM	26775	15RB#0	20.87	PASS
26(814-824)	5MHz	QPSK	26715	1RB#0	22.87	PASS
26(814-824)	5MHz	16QAM	26715	1RB#0	21.53	PASS
26(814-824)	5MHz	QPSK	26715	1RB#12	22.73	PASS
26(814-824)	5MHz	16QAM	26715	1RB#12	21.44	PASS
26(814-824)	5MHz	QPSK	26715	1RB#24	22.55	PASS
26(814-824)	5MHz	16QAM	26715	1RB#24	21.50	PASS
26(814-824)	5MHz	QPSK	26715	12RB#0	21.63	PASS
26(814-824)	5MHz	16QAM	26715	12RB#0	20.70	PASS
26(814-824)	5MHz	QPSK	26715	12RB#6	21.66	PASS
26(814-824)	5MHz	16QAM	26715	12RB#6	20.52	PASS
26(814-824)	5MHz	QPSK	26715	12RB#13	21.51	PASS
26(814-824)	5MHz	16QAM	26715	12RB#13	20.57	PASS
26(814-824)	5MHz	QPSK	26715	25RB#0	21.54	PASS
26(814-824)	5MHz	16QAM	26715	25RB#0	20.51	PASS
26(814-824)	5MHz	QPSK	26740	1RB#0	22.85	PASS
26(814-824)	5MHz	16QAM	26740	1RB#0	21.50	PASS
26(814-824)	5MHz	QPSK	26740	1RB#12	22.67	PASS
26(814-824)	5MHz	16QAM	26740	1RB#12	21.51	PASS
26(814-824)	5MHz	QPSK	26740	1RB#24	22.74	PASS
26(814-824)	5MHz	16QAM	26740	1RB#24	21.65	PASS
26(814-824)	5MHz	QPSK	26740	12RB#0	21.72	PASS
26(814-824)	5MHz	16QAM	26740	12RB#0	20.77	PASS
26(814-824)	5MHz	QPSK	26740	12RB#6	21.74	PASS
26(814-824)	5MHz	16QAM	26740	12RB#6	20.78	PASS
26(814-824)	5MHz	QPSK	26740	12RB#13	21.60	PASS
26(814-824)	5MHz	16QAM	26740	12RB#13	20.85	PASS
26(814-824)	5MHz	QPSK	26740	25RB#0	21.59	PASS
26(814-824)	5MHz	16QAM	26740	25RB#0	20.74	PASS
26(814-824)	5MHz	QPSK	26765	1RB#0	22.67	PASS
26(814-824)	5MHz	16QAM	26765	1RB#0	21.66	PASS
26(814-824)	5MHz	QPSK	26765	1RB#12	22.89	PASS
26(814-824)	5MHz	16QAM	26765	1RB#12	21.64	PASS
26(814-824)	5MHz	QPSK	26765	1RB#24	22.67	PASS
26(814-824)	5MHz	16QAM	26765	1RB#24	21.54	PASS
26(814-824)	5MHz	QPSK	26765	12RB#0	21.55	PASS

26(814-824)	5MHz	16QAM	26765	12RB#0	20.66	PASS
26(814-824)	5MHz	QPSK	26765	12RB#6	21.68	PASS
26(814-824)	5MHz	16QAM	26765	12RB#6	20.57	PASS
26(814-824)	5MHz	QPSK	26765	12RB#13	21.76	PASS
26(814-824)	5MHz	16QAM	26765	12RB#13	20.66	PASS
26(814-824)	5MHz	QPSK	26765	25RB#0	21.67	PASS
26(814-824)	5MHz	16QAM	26765	25RB#0	20.93	PASS
26(814-824)	10MHz	QPSK	26740	1RB#0	22.96	PASS
26(814-824)	10MHz	QPSK	26740	1RB#24	22.86	PASS
26(814-824)	10MHz	16QAM	26740	1RB#0	21.76	PASS
26(814-824)	10MHz	16QAM	26740	1RB#24	21.57	PASS
26(814-824)	10MHz	QPSK	26740	1RB#49	22.71	PASS
26(814-824)	10MHz	QPSK	26740	25RB#0	21.83	PASS
26(814-824)	10MHz	QPSK	26740	25RB#12	21.82	PASS
26(814-824)	10MHz	QPSK	26740	25RB#25	21.84	PASS
26(814-824)	10MHz	QPSK	26740	50RB#0	21.91	PASS
26(814-824)	10MHz	16QAM	26740	1RB#49	21.58	PASS
26(814-824)	10MHz	16QAM	26740	25RB#0	20.69	PASS
26(814-824)	10MHz	16QAM	26740	25RB#12	20.63	PASS
26(814-824)	10MHz	16QAM	26740	25RB#25	20.52	PASS

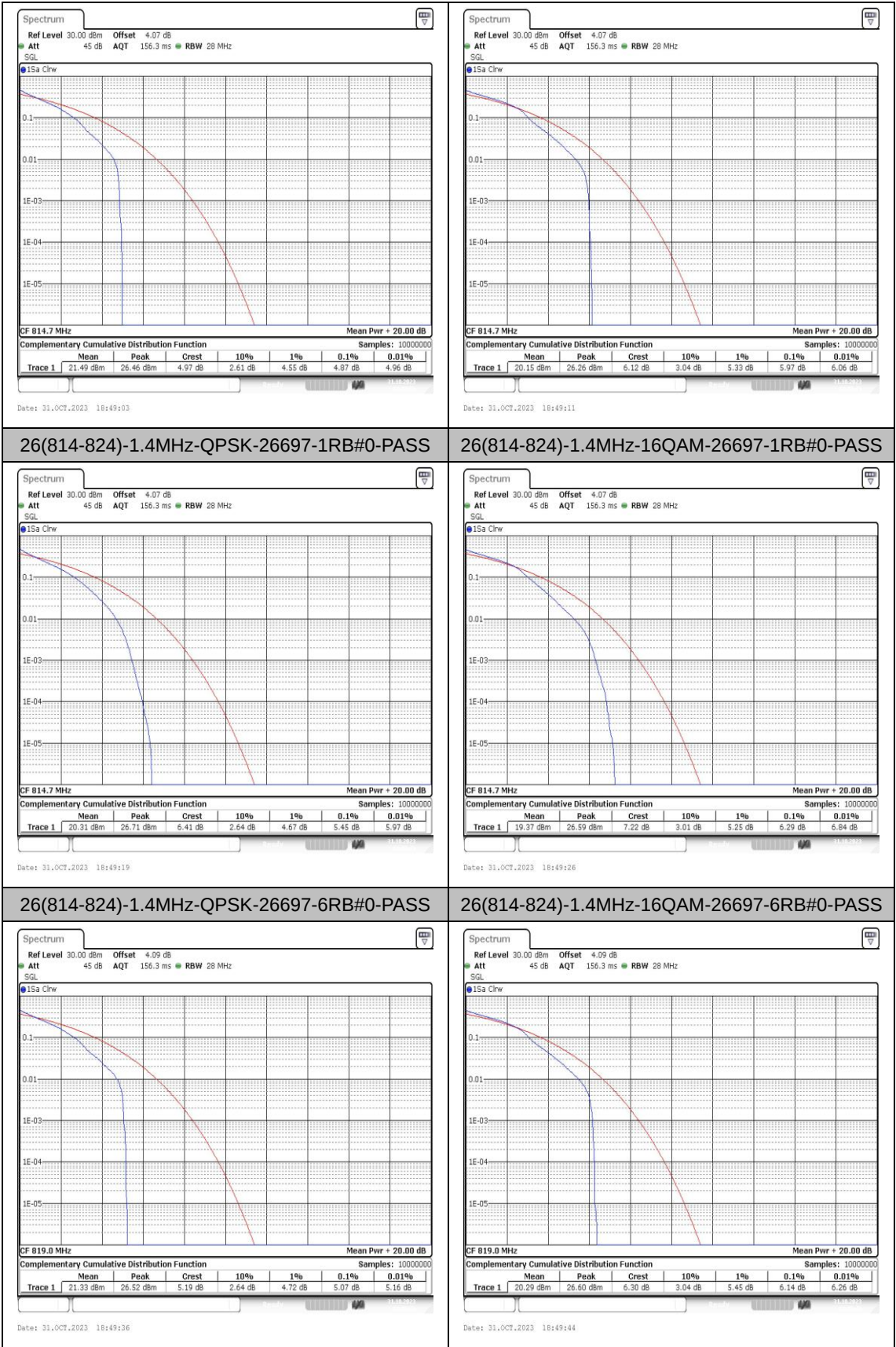
Appendix B: Peak-to-Average Ratio(CCDF)

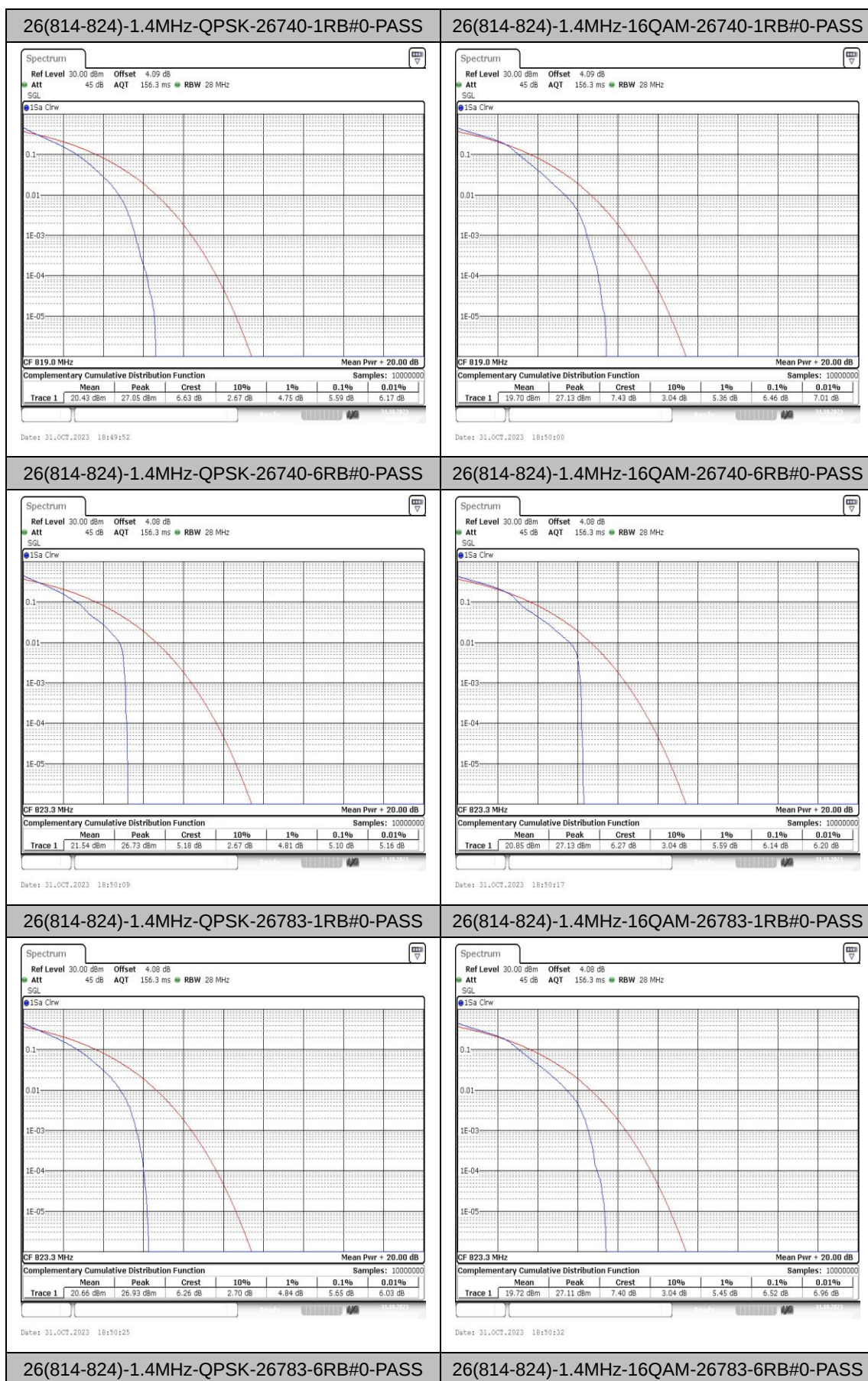
Test Result

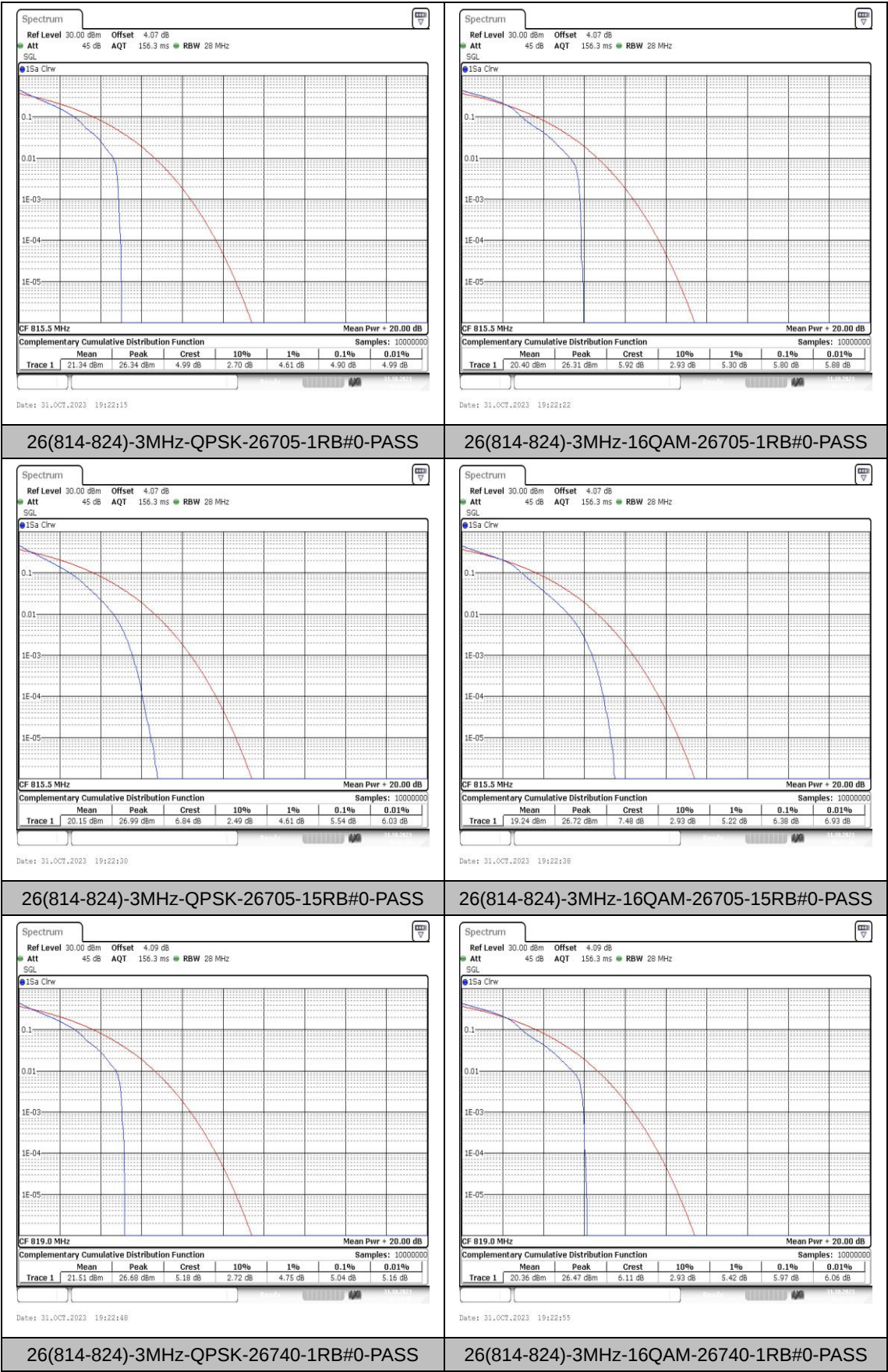
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
26(814-824)	1.4MHz	QPSK	26697	1RB#0	4.87	13	PASS
26(814-824)	1.4MHz	16QAM	26697	1RB#0	5.97	13	PASS
26(814-824)	1.4MHz	QPSK	26697	6RB#0	5.45	13	PASS
26(814-824)	1.4MHz	16QAM	26697	6RB#0	6.29	13	PASS
26(814-824)	1.4MHz	QPSK	26740	1RB#0	5.07	13	PASS
26(814-824)	1.4MHz	16QAM	26740	1RB#0	6.14	13	PASS
26(814-824)	1.4MHz	QPSK	26740	6RB#0	5.59	13	PASS
26(814-824)	1.4MHz	16QAM	26740	6RB#0	6.46	13	PASS
26(814-824)	1.4MHz	QPSK	26783	1RB#0	5.10	13	PASS
26(814-824)	1.4MHz	16QAM	26783	1RB#0	6.14	13	PASS
26(814-824)	1.4MHz	QPSK	26783	6RB#0	5.65	13	PASS
26(814-824)	1.4MHz	16QAM	26783	6RB#0	6.52	13	PASS
26(814-824)	3MHz	QPSK	26705	1RB#0	4.90	13	PASS
26(814-824)	3MHz	16QAM	26705	1RB#0	5.80	13	PASS
26(814-824)	3MHz	QPSK	26705	15RB#0	5.54	13	PASS
26(814-824)	3MHz	16QAM	26705	15RB#0	6.38	13	PASS
26(814-824)	3MHz	QPSK	26740	1RB#0	5.04	13	PASS
26(814-824)	3MHz	16QAM	26740	1RB#0	5.97	13	PASS
26(814-824)	3MHz	QPSK	26740	15RB#0	5.68	13	PASS
26(814-824)	3MHz	16QAM	26740	15RB#0	6.49	13	PASS
26(814-824)	3MHz	QPSK	26775	1RB#0	5.10	13	PASS
26(814-824)	3MHz	16QAM	26775	1RB#0	6.14	13	PASS
26(814-824)	3MHz	QPSK	26775	15RB#0	5.74	13	PASS
26(814-824)	3MHz	16QAM	26775	15RB#0	6.52	13	PASS
26(814-824)	5MHz	QPSK	26715	1RB#0	4.81	13	PASS
26(814-824)	5MHz	16QAM	26715	1RB#0	5.80	13	PASS
26(814-824)	5MHz	QPSK	26715	25RB#0	5.57	13	PASS
26(814-824)	5MHz	16QAM	26715	25RB#0	6.35	13	PASS
26(814-824)	5MHz	QPSK	26740	1RB#0	4.99	13	PASS
26(814-824)	5MHz	16QAM	26740	1RB#0	5.83	13	PASS
26(814-824)	5MHz	QPSK	26740	25RB#0	5.65	13	PASS
26(814-824)	5MHz	16QAM	26740	25RB#0	6.41	13	PASS
26(814-824)	5MHz	QPSK	26765	1RB#0	5.01	13	PASS
26(814-824)	5MHz	16QAM	26765	1RB#0	5.94	13	PASS

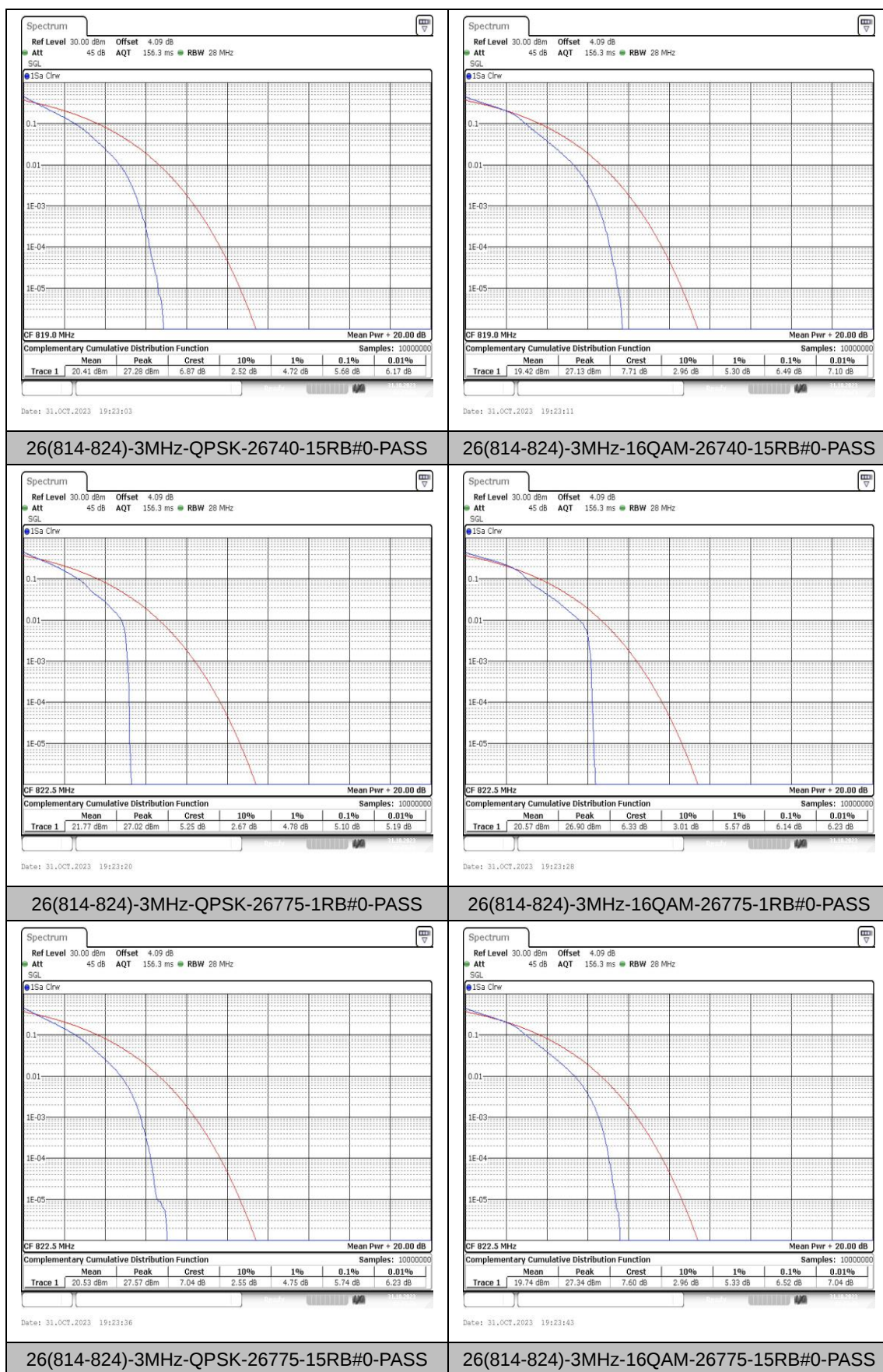
26(814-824)	5MHz	QPSK	26765	25RB#0	5.68	13	PASS
26(814-824)	5MHz	16QAM	26765	25RB#0	6.49	13	PASS
26(814-824)	10MHz	QPSK	26740	1RB#0	4.81	13	PASS
26(814-824)	10MHz	QPSK	26740	50RB#0	5.57	13	PASS
26(814-824)	10MHz	16QAM	26740	1RB#0	5.74	13	PASS
26(814-824)	10MHz	16QAM	26740	25RB#0	6.14	13	PASS

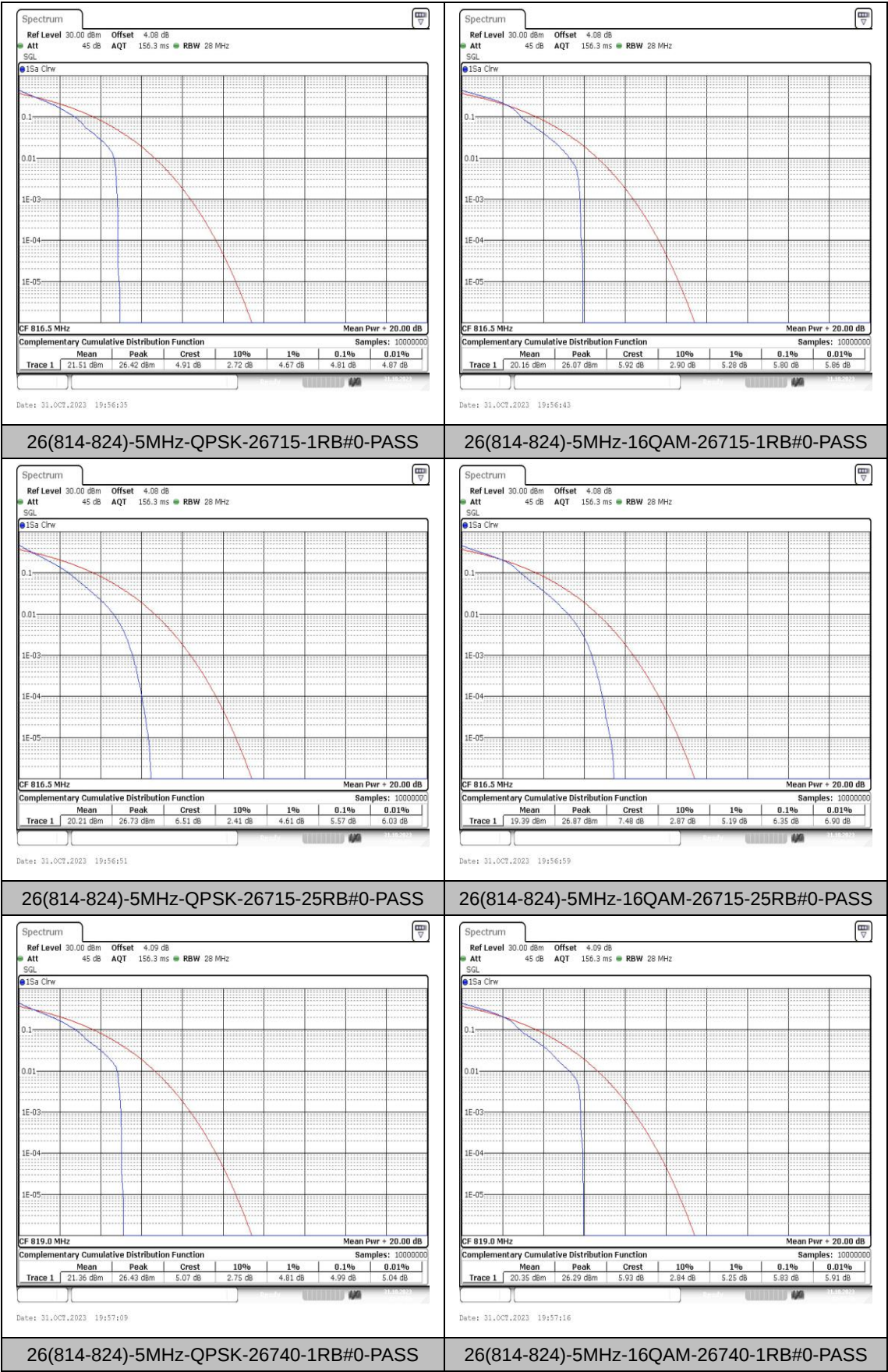
Test Graphs

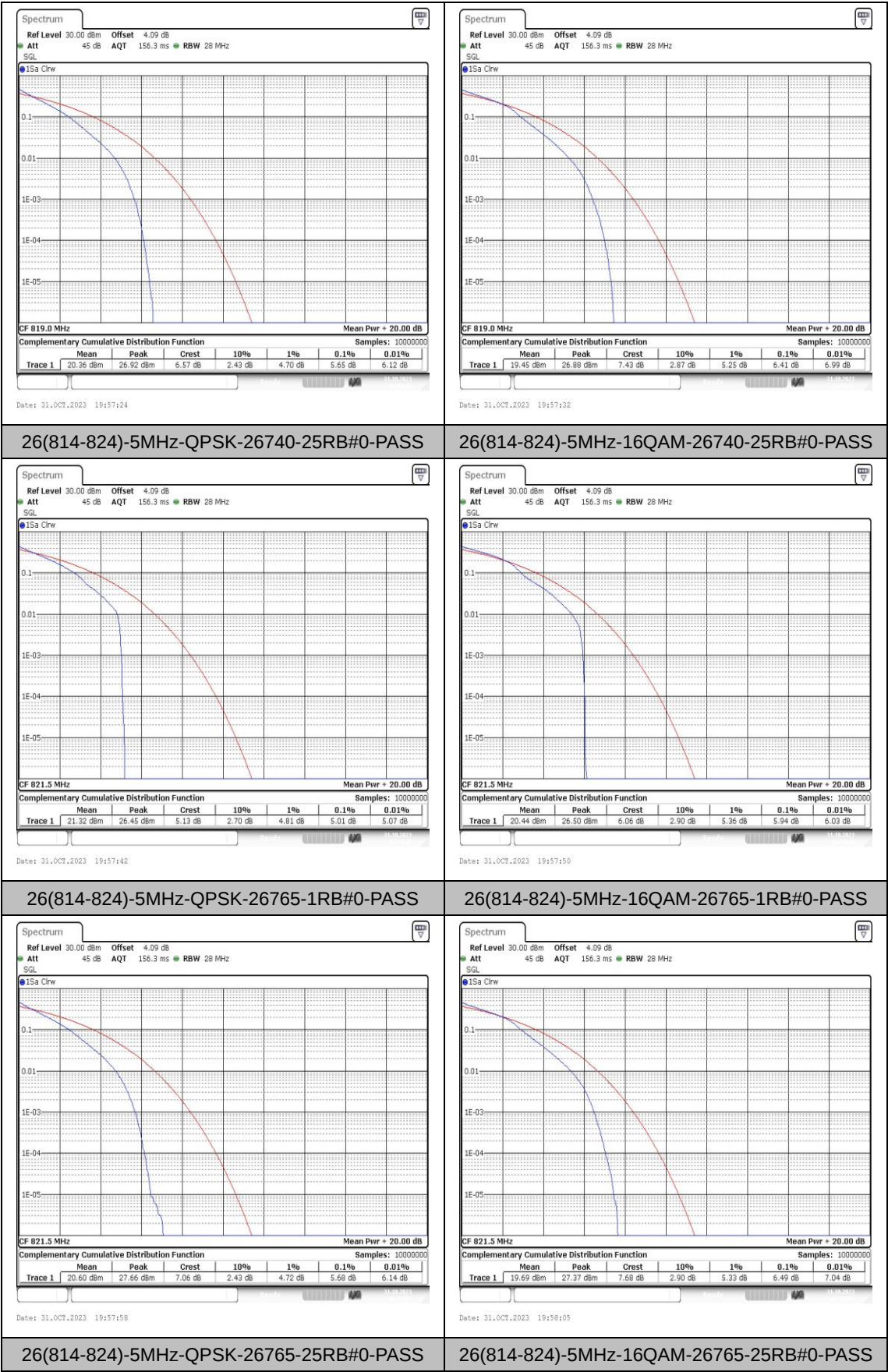


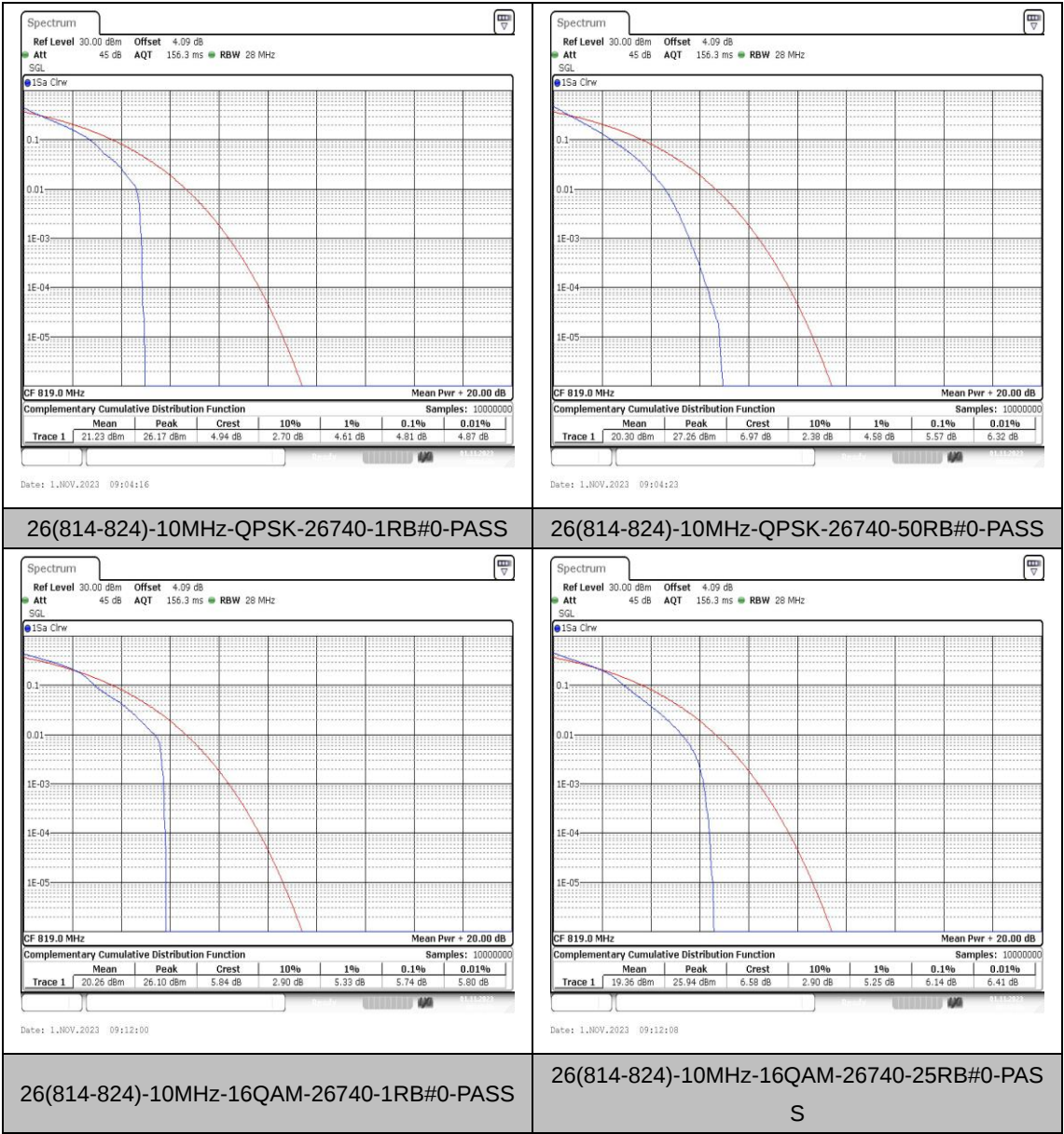










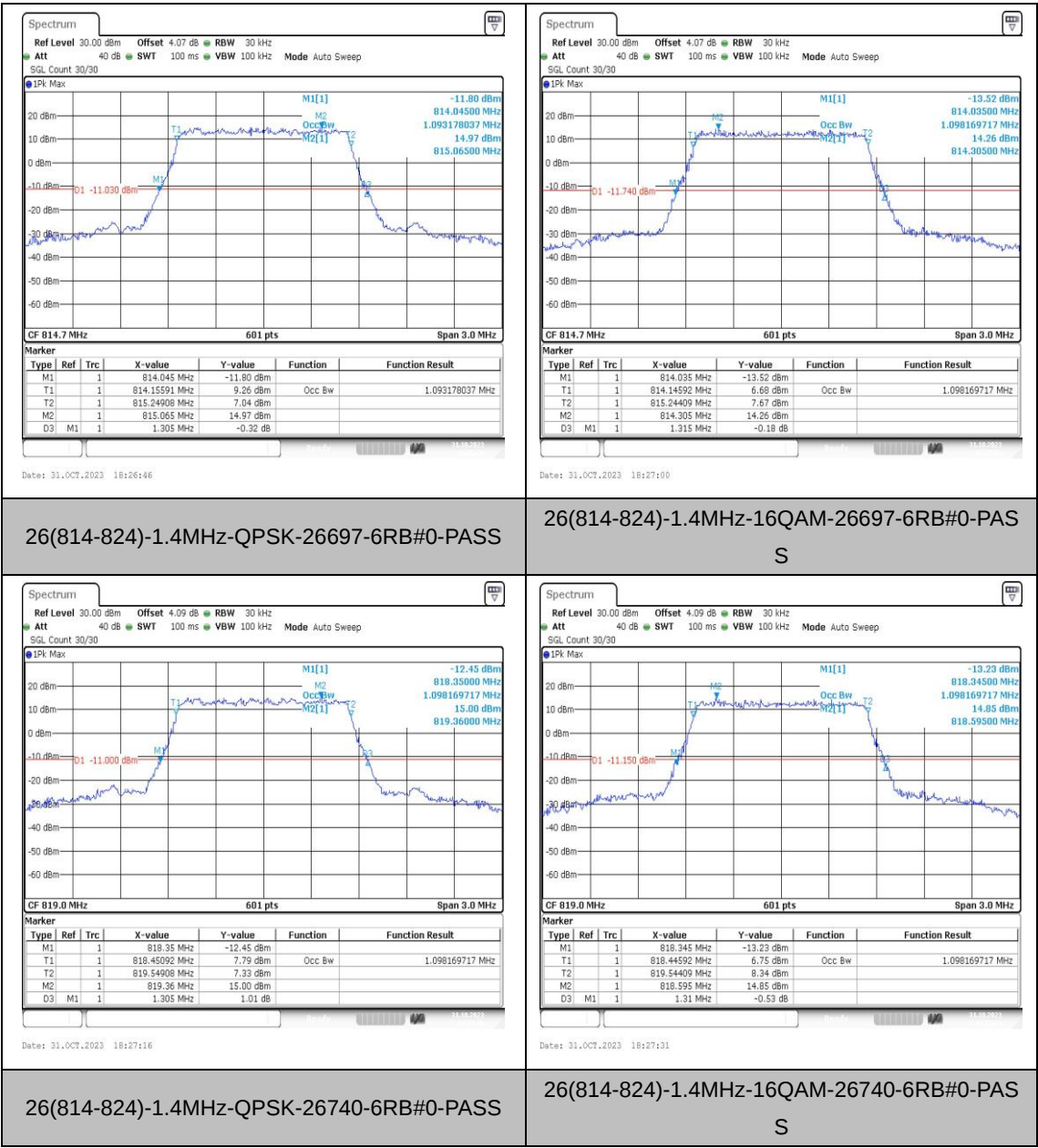


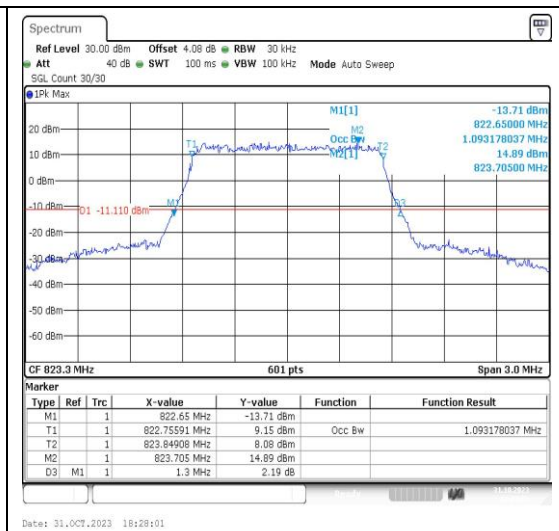
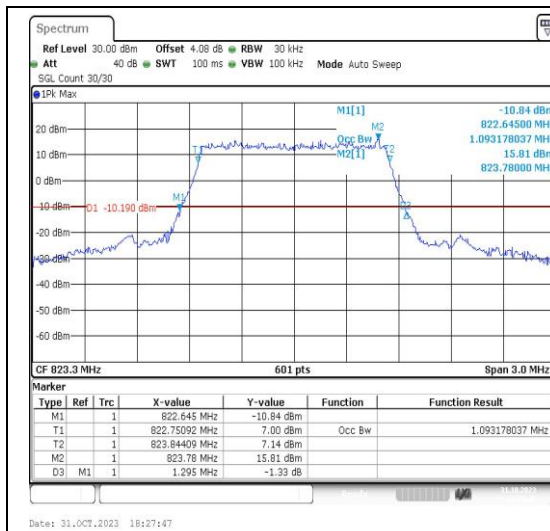
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
26(814-824)	1.4MHz	QPSK	26697	6RB#0	1.093	1.30	PASS
26(814-824)	1.4MHz	16QAM	26697	6RB#0	1.098	1.31	PASS
26(814-824)	1.4MHz	QPSK	26740	6RB#0	1.098	1.30	PASS
26(814-824)	1.4MHz	16QAM	26740	6RB#0	1.098	1.31	PASS
26(814-824)	1.4MHz	QPSK	26783	6RB#0	1.093	1.29	PASS
26(814-824)	1.4MHz	16QAM	26783	6RB#0	1.093	1.30	PASS
26(814-824)	3MHz	QPSK	26705	15RB#0	2.705	2.99	PASS
26(814-824)	3MHz	16QAM	26705	15RB#0	2.696	2.98	PASS
26(814-824)	3MHz	QPSK	26740	15RB#0	2.696	2.99	PASS
26(814-824)	3MHz	16QAM	26740	15RB#0	2.696	2.99	PASS
26(814-824)	3MHz	QPSK	26775	15RB#0	2.696	2.99	PASS
26(814-824)	3MHz	16QAM	26775	15RB#0	2.696	2.97	PASS
26(814-824)	5MHz	QPSK	26715	25RB#0	4.505	5.05	PASS
26(814-824)	5MHz	16QAM	26715	25RB#0	4.505	5.01	PASS
26(814-824)	5MHz	QPSK	26740	25RB#0	4.496	5.02	PASS
26(814-824)	5MHz	16QAM	26740	25RB#0	4.505	5.07	PASS
26(814-824)	5MHz	QPSK	26765	25RB#0	4.505	5.02	PASS
26(814-824)	5MHz	16QAM	26765	25RB#0	4.515	5.08	PASS
26(814-824)	10MHz	QPSK	26740	50RB#0	8.985	9.97	PASS
26(814-824)	10MHz	16QAM	26740	25RB#0	4.626	5.57	PASS
26(814-824)	10MHz	16QAM	26740	25RB#25	4.626	5.53	PASS

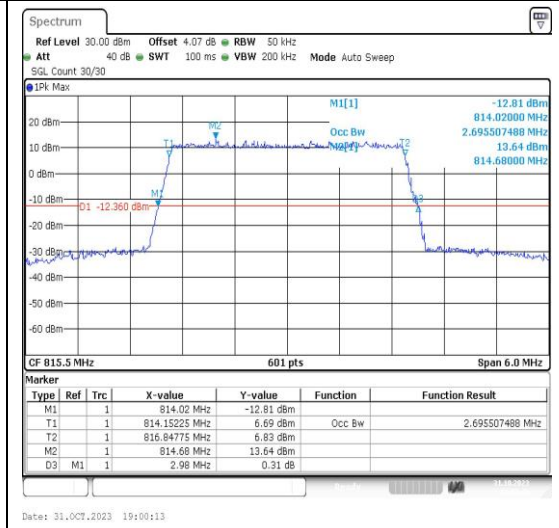
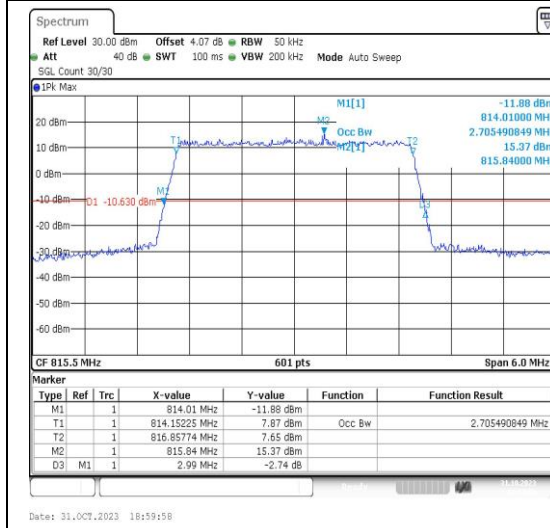
Test Graphs





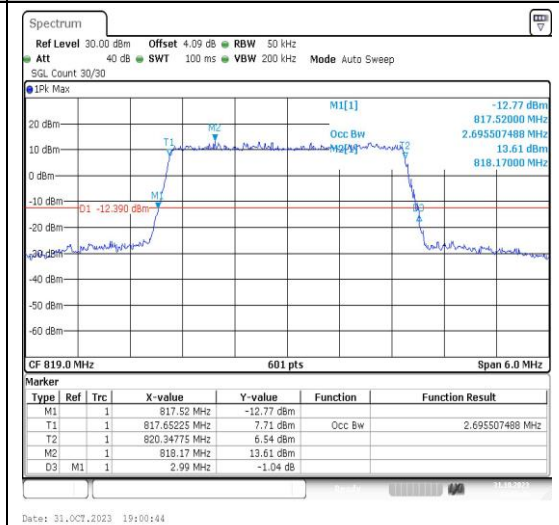
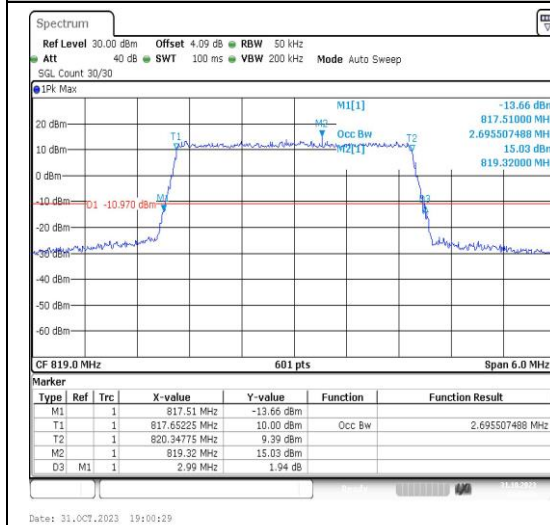
26(814-824)-1.4MHz-QPSK-26783-6RB#0-PASS

26(814-824)-1.4MHz-16QAM-26783-6RB#0-PASS



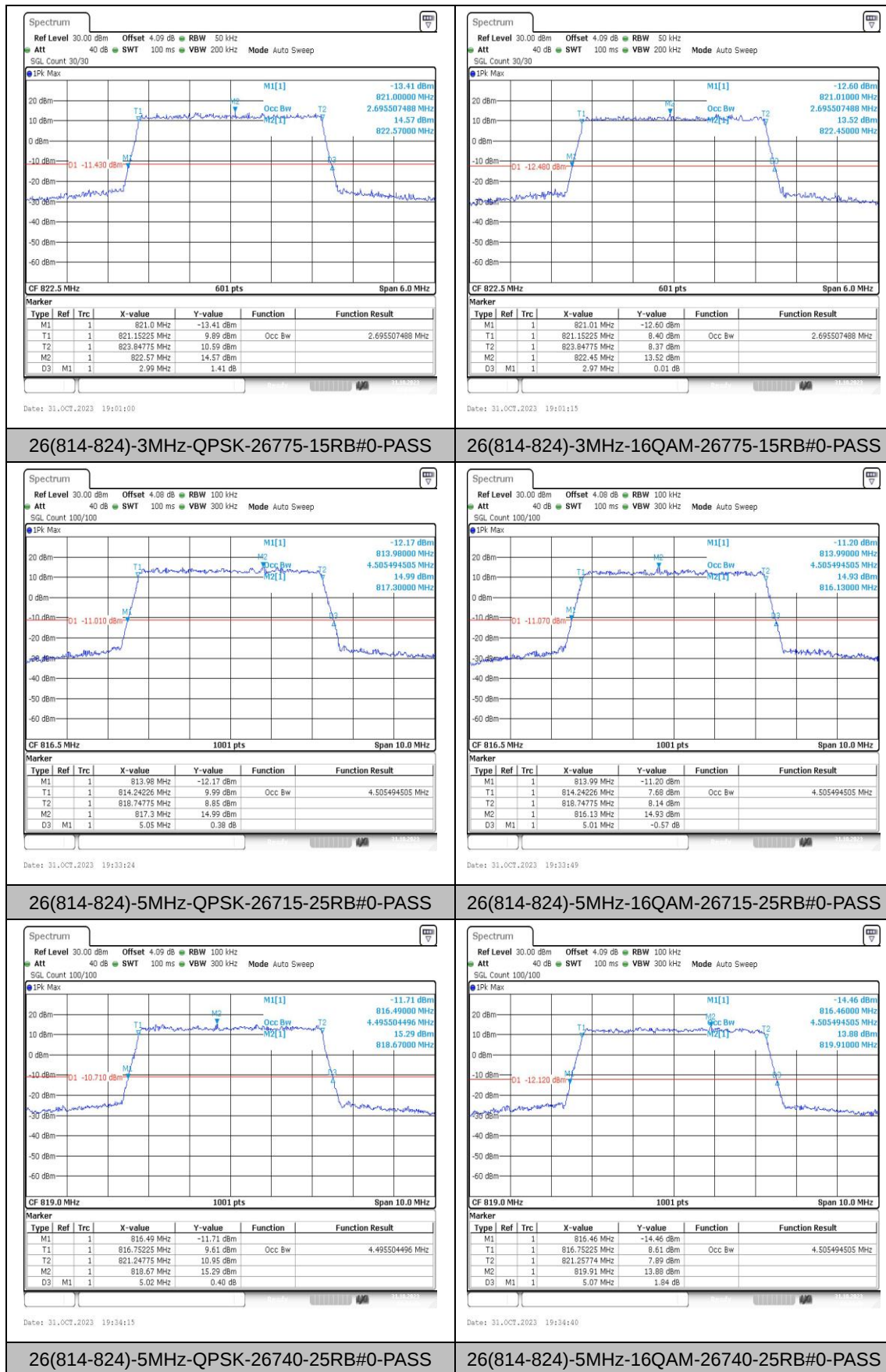
26(814-824)-3MHz-QPSK-26705-15RB#0-PASS

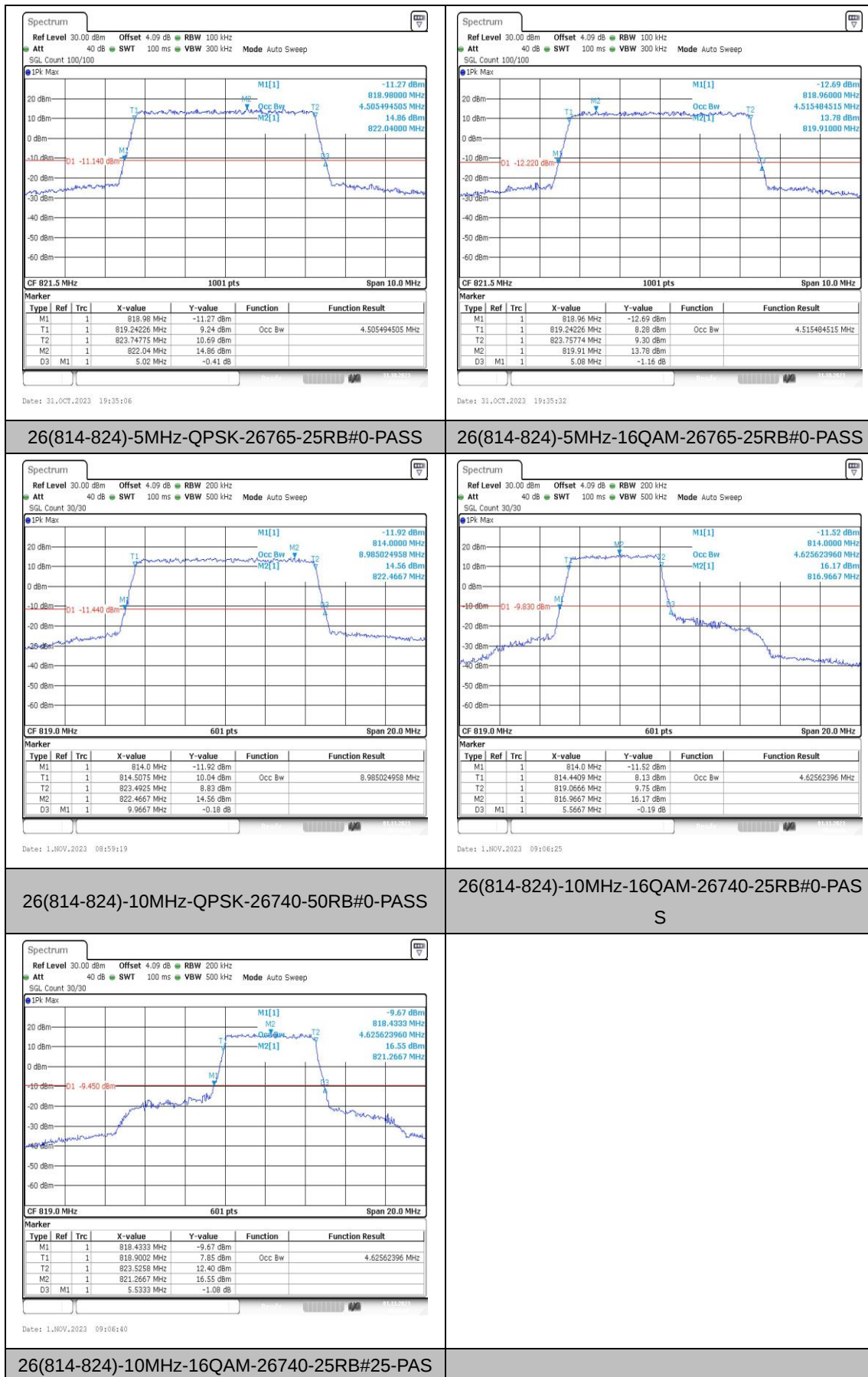
26(814-824)-3MHz-16QAM-26705-15RB#0-PASS



26(814-824)-3MHz-QPSK-26740-15RB#0-PASS

26(814-824)-3MHz-16QAM-26740-15RB#0-PASS





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Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
26(814-824)	1.4MHz	QPSK	26697	1RB#0	-26.04	PASS
26(814-824)	1.4MHz	16QAM	26697	1RB#0	-25.51	PASS
26(814-824)	1.4MHz	QPSK	26697	1RB#5	-25.26	PASS
26(814-824)	1.4MHz	16QAM	26697	1RB#5	-26.86	PASS
26(814-824)	1.4MHz	QPSK	26697	6RB#0	-29.53	PASS
26(814-824)	1.4MHz	16QAM	26697	6RB#0	-30.14	PASS
26(814-824)	1.4MHz	QPSK	26783	1RB#0	-25.68	PASS
26(814-824)	1.4MHz	16QAM	26783	1RB#0	-26.78	PASS
26(814-824)	1.4MHz	QPSK	26783	1RB#5	-25.77	PASS
26(814-824)	1.4MHz	16QAM	26783	1RB#5	-24.16	PASS
26(814-824)	1.4MHz	QPSK	26783	6RB#0	-26.19	PASS
26(814-824)	1.4MHz	16QAM	26783	6RB#0	-27.62	PASS
26(814-824)	3MHz	QPSK	26705	1RB#0	-32.54	PASS
26(814-824)	3MHz	16QAM	26705	1RB#0	-25.49	PASS
26(814-824)	3MHz	QPSK	26705	1RB#14	-25.19	PASS
26(814-824)	3MHz	16QAM	26705	1RB#14	-25.23	PASS
26(814-824)	3MHz	QPSK	26705	15RB#0	-29.44	PASS
26(814-824)	3MHz	16QAM	26705	15RB#0	-30.80	PASS
26(814-824)	3MHz	QPSK	26775	1RB#0	-24.87	PASS
26(814-824)	3MHz	16QAM	26775	1RB#0	-24.21	PASS
26(814-824)	3MHz	QPSK	26775	1RB#14	-24.99	PASS
26(814-824)	3MHz	16QAM	26775	1RB#14	-25.23	PASS
26(814-824)	3MHz	QPSK	26775	15RB#0	-27.56	PASS
26(814-824)	3MHz	16QAM	26775	15RB#0	-29.13	PASS
26(814-824)	5MHz	QPSK	26715	1RB#0	-26.33	PASS
26(814-824)	5MHz	16QAM	26715	1RB#0	-26.81	PASS
26(814-824)	5MHz	QPSK	26715	1RB#24	-25.54	PASS
26(814-824)	5MHz	16QAM	26715	1RB#24	-28.30	PASS
26(814-824)	5MHz	QPSK	26715	25RB#0	-30.63	PASS
26(814-824)	5MHz	16QAM	26715	25RB#0	-31.86	PASS
26(814-824)	5MHz	QPSK	26765	1RB#0	-24.64	PASS
26(814-824)	5MHz	16QAM	26765	1RB#0	-27.54	PASS
26(814-824)	5MHz	QPSK	26765	1RB#24	-26.95	PASS
26(814-824)	5MHz	16QAM	26765	1RB#24	-28.21	PASS

26(814-824)	5MHz	QPSK	26765	25RB#0	-30.34	PASS
26(814-824)	5MHz	16QAM	26765	25RB#0	-30.61	PASS
26(814-824)	10MHz	QPSK	26740	1RB#0	-38.59	PASS
26(814-824)	10MHz	QPSK	26740	1RB#49	-37.83	PASS
26(814-824)	10MHz	QPSK	26740	50RB#0	-34.52	PASS
26(814-824)	10MHz	16QAM	26740	1RB#0	-39.79	PASS
26(814-824)	10MHz	16QAM	26740	1RB#49	-38.99	PASS
26(814-824)	10MHz	16QAM	26740	25RB#0	-35.08	PASS
26(814-824)	10MHz	16QAM	26740	25RB#25	-33.61	PASS

Test Graphs

