

Appendix for LTE Band 5

Product Name: TITAN 5400

Model No: G5G-X62O

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	21.59	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	21.59	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	21.64	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	21.68	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	21.65	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	21.63	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	20.59	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	20.64	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	20.70	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	20.55	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	20.71	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	20.59	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	20.68	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	19.65	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	21.69	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	21.76	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	21.70	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	21.72	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	21.73	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	21.78	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	20.65	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	20.67	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	20.65	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	20.56	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	20.71	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	20.73	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	20.80	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	19.73	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	21.75	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	21.75	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.78	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	21.87	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	21.85	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	21.92	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	20.88	PASS

Band5	1.4MHz	16QAM	20643	1RB#0	20.73	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	20.81	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	20.69	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	20.77	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	20.85	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	20.77	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	19.77	PASS
Band5	3MHz	QPSK	20415	1RB#0	21.56	PASS
Band5	3MHz	QPSK	20415	1RB#8	21.70	PASS
Band5	3MHz	QPSK	20415	1RB#14	21.59	PASS
Band5	3MHz	QPSK	20415	8RB#0	20.59	PASS
Band5	3MHz	QPSK	20415	8RB#4	20.61	PASS
Band5	3MHz	QPSK	20415	8RB#7	20.73	PASS
Band5	3MHz	QPSK	20415	15RB#0	20.68	PASS
Band5	3MHz	16QAM	20415	1RB#0	20.62	PASS
Band5	3MHz	16QAM	20415	1RB#8	20.74	PASS
Band5	3MHz	16QAM	20415	1RB#14	20.62	PASS
Band5	3MHz	16QAM	20415	8RB#0	19.62	PASS
Band5	3MHz	16QAM	20415	8RB#4	19.57	PASS
Band5	3MHz	16QAM	20415	8RB#7	19.68	PASS
Band5	3MHz	16QAM	20415	15RB#0	19.69	PASS
Band5	3MHz	QPSK	20525	1RB#0	21.71	PASS
Band5	3MHz	QPSK	20525	1RB#8	21.82	PASS
Band5	3MHz	QPSK	20525	1RB#14	21.77	PASS
Band5	3MHz	QPSK	20525	8RB#0	20.75	PASS
Band5	3MHz	QPSK	20525	8RB#4	20.76	PASS
Band5	3MHz	QPSK	20525	8RB#7	20.83	PASS
Band5	3MHz	QPSK	20525	15RB#0	20.76	PASS
Band5	3MHz	16QAM	20525	1RB#0	20.60	PASS
Band5	3MHz	16QAM	20525	1RB#8	20.91	PASS
Band5	3MHz	16QAM	20525	1RB#14	20.91	PASS
Band5	3MHz	16QAM	20525	8RB#0	19.81	PASS
Band5	3MHz	16QAM	20525	8RB#4	19.71	PASS
Band5	3MHz	16QAM	20525	8RB#7	19.86	PASS
Band5	3MHz	16QAM	20525	15RB#0	19.79	PASS
Band5	3MHz	QPSK	20635	1RB#0	21.83	PASS
Band5	3MHz	QPSK	20635	1RB#8	21.92	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.86	PASS
Band5	3MHz	QPSK	20635	8RB#0	20.83	PASS
Band5	3MHz	QPSK	20635	8RB#4	20.82	PASS
Band5	3MHz	QPSK	20635	8RB#7	20.91	PASS
Band5	3MHz	QPSK	20635	15RB#0	20.98	PASS

Band5	3MHz	16QAM	20635	1RB#0	20.83	PASS
Band5	3MHz	16QAM	20635	1RB#8	20.96	PASS
Band5	3MHz	16QAM	20635	1RB#14	20.81	PASS
Band5	3MHz	16QAM	20635	8RB#0	19.87	PASS
Band5	3MHz	16QAM	20635	8RB#4	19.91	PASS
Band5	3MHz	16QAM	20635	8RB#7	19.93	PASS
Band5	3MHz	16QAM	20635	15RB#0	19.87	PASS
Band5	5MHz	QPSK	20425	1RB#0	21.65	PASS
Band5	5MHz	QPSK	20425	1RB#12	21.74	PASS
Band5	5MHz	QPSK	20425	1RB#24	21.76	PASS
Band5	5MHz	QPSK	20425	12RB#0	20.62	PASS
Band5	5MHz	QPSK	20425	12RB#6	20.66	PASS
Band5	5MHz	QPSK	20425	12RB#13	20.74	PASS
Band5	5MHz	QPSK	20425	25RB#0	20.72	PASS
Band5	5MHz	16QAM	20425	1RB#0	20.79	PASS
Band5	5MHz	16QAM	20425	1RB#12	20.68	PASS
Band5	5MHz	16QAM	20425	1RB#24	20.70	PASS
Band5	5MHz	16QAM	20425	12RB#0	19.54	PASS
Band5	5MHz	16QAM	20425	12RB#6	19.71	PASS
Band5	5MHz	16QAM	20425	12RB#13	19.78	PASS
Band5	5MHz	16QAM	20425	25RB#0	19.75	PASS
Band5	5MHz	QPSK	20525	1RB#0	21.82	PASS
Band5	5MHz	QPSK	20525	1RB#12	21.83	PASS
Band5	5MHz	QPSK	20525	1RB#24	21.77	PASS
Band5	5MHz	QPSK	20525	12RB#0	20.78	PASS
Band5	5MHz	QPSK	20525	12RB#6	20.77	PASS
Band5	5MHz	QPSK	20525	12RB#13	20.85	PASS
Band5	5MHz	QPSK	20525	25RB#0	20.77	PASS
Band5	5MHz	16QAM	20525	1RB#0	20.85	PASS
Band5	5MHz	16QAM	20525	1RB#12	20.95	PASS
Band5	5MHz	16QAM	20525	1RB#24	20.86	PASS
Band5	5MHz	16QAM	20525	12RB#0	19.81	PASS
Band5	5MHz	16QAM	20525	12RB#6	19.68	PASS
Band5	5MHz	16QAM	20525	12RB#13	19.89	PASS
Band5	5MHz	16QAM	20525	25RB#0	19.78	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.92	PASS
Band5	5MHz	QPSK	20625	1RB#12	21.89	PASS
Band5	5MHz	QPSK	20625	1RB#24	21.92	PASS
Band5	5MHz	QPSK	20625	12RB#0	20.85	PASS
Band5	5MHz	QPSK	20625	12RB#6	20.85	PASS
Band5	5MHz	QPSK	20625	12RB#13	20.91	PASS
Band5	5MHz	QPSK	20625	25RB#0	20.96	PASS

Band5	5MHz	16QAM	20625	1RB#0	20.75	PASS
Band5	5MHz	16QAM	20625	1RB#12	20.91	PASS
Band5	5MHz	16QAM	20625	1RB#24	20.91	PASS
Band5	5MHz	16QAM	20625	12RB#0	19.91	PASS
Band5	5MHz	16QAM	20625	12RB#6	19.84	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.08	PASS
Band5	5MHz	16QAM	20625	25RB#0	19.99	PASS
Band5	10MHz	QPSK	20450	1RB#0	21.67	PASS
Band5	10MHz	QPSK	20450	1RB#24	21.69	PASS
Band5	10MHz	QPSK	20450	1RB#49	21.71	PASS
Band5	10MHz	QPSK	20450	25RB#0	20.71	PASS
Band5	10MHz	QPSK	20450	25RB#12	20.69	PASS
Band5	10MHz	QPSK	20450	25RB#25	20.72	PASS
Band5	10MHz	QPSK	20450	50RB#0	20.72	PASS
Band5	10MHz	16QAM	20450	1RB#0	20.76	PASS
Band5	10MHz	16QAM	20450	1RB#24	20.78	PASS
Band5	10MHz	16QAM	20450	1RB#49	20.75	PASS
Band5	10MHz	16QAM	20450	25RB#0	19.70	PASS
Band5	10MHz	16QAM	20450	25RB#12	19.68	PASS
Band5	10MHz	16QAM	20450	25RB#25	19.78	PASS
Band5	10MHz	16QAM	20450	50RB#0	19.74	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.72	PASS
Band5	10MHz	QPSK	20525	1RB#24	21.89	PASS
Band5	10MHz	QPSK	20525	1RB#49	21.82	PASS
Band5	10MHz	QPSK	20525	25RB#0	20.80	PASS
Band5	10MHz	QPSK	20525	25RB#12	20.81	PASS
Band5	10MHz	QPSK	20525	25RB#25	20.83	PASS
Band5	10MHz	QPSK	20525	50RB#0	20.83	PASS
Band5	10MHz	16QAM	20525	1RB#0	20.75	PASS
Band5	10MHz	16QAM	20525	1RB#24	20.84	PASS
Band5	10MHz	16QAM	20525	1RB#49	20.67	PASS
Band5	10MHz	16QAM	20525	25RB#0	19.84	PASS
Band5	10MHz	16QAM	20525	25RB#12	19.77	PASS
Band5	10MHz	16QAM	20525	25RB#25	19.84	PASS
Band5	10MHz	16QAM	20525	50RB#0	19.79	PASS
Band5	10MHz	QPSK	20600	1RB#0	21.89	PASS
Band5	10MHz	QPSK	20600	1RB#24	21.88	PASS
Band5	10MHz	QPSK	20600	1RB#49	21.85	PASS
Band5	10MHz	QPSK	20600	25RB#0	20.84	PASS
Band5	10MHz	QPSK	20600	25RB#12	20.87	PASS
Band5	10MHz	QPSK	20600	25RB#25	20.90	PASS
Band5	10MHz	QPSK	20600	50RB#0	20.94	PASS

Band5	10MHz	16QAM	20600	1RB#0	20.94	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.04	PASS
Band5	10MHz	16QAM	20600	1RB#49	20.94	PASS
Band5	10MHz	16QAM	20600	25RB#0	19.87	PASS
Band5	10MHz	16QAM	20600	25RB#12	19.89	PASS
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Band5	10MHz	16QAM	20600	50RB#0	20.01	PASS

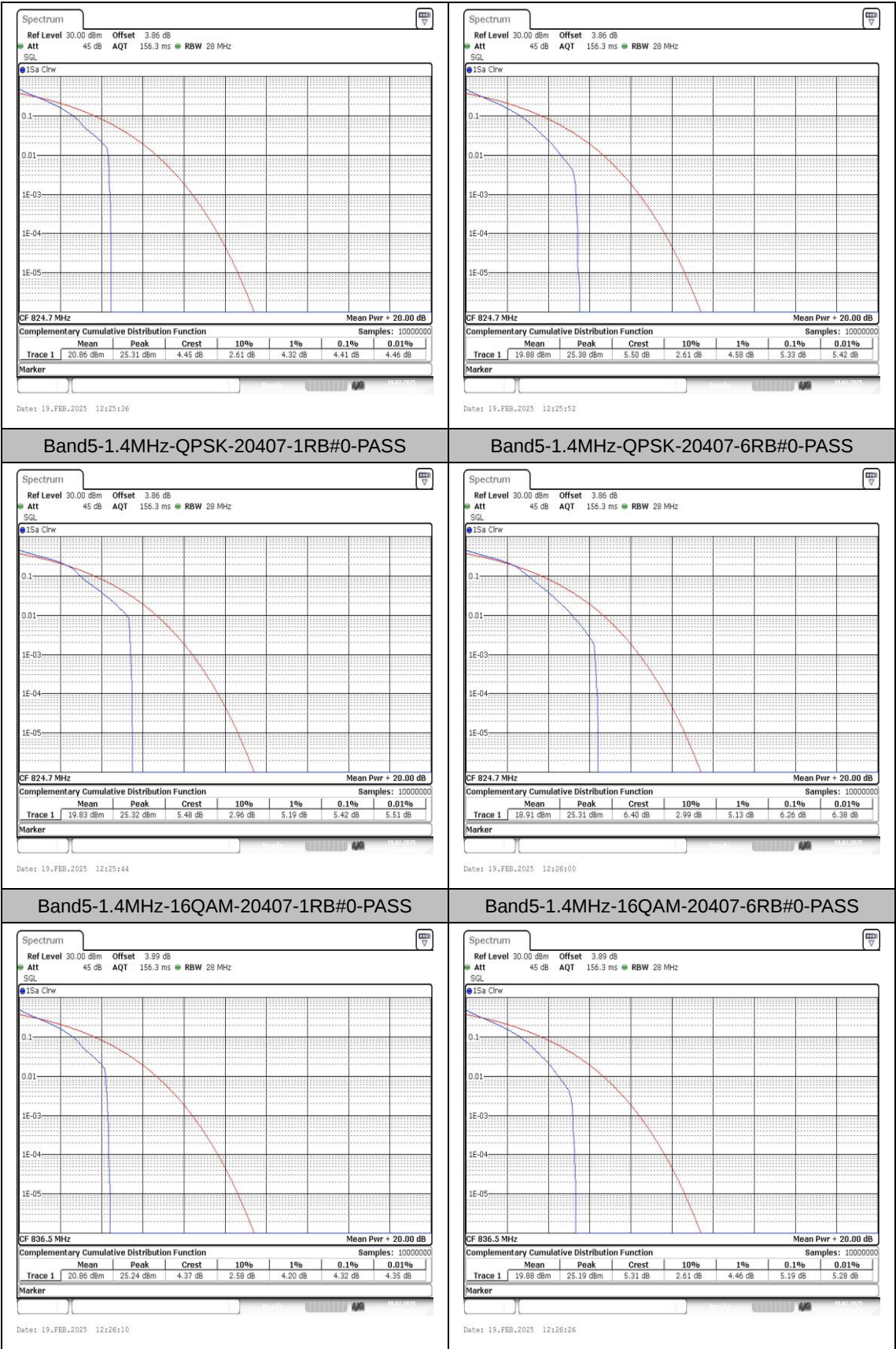
Appendix B: Peak-to-Average Ratio(CCDF)

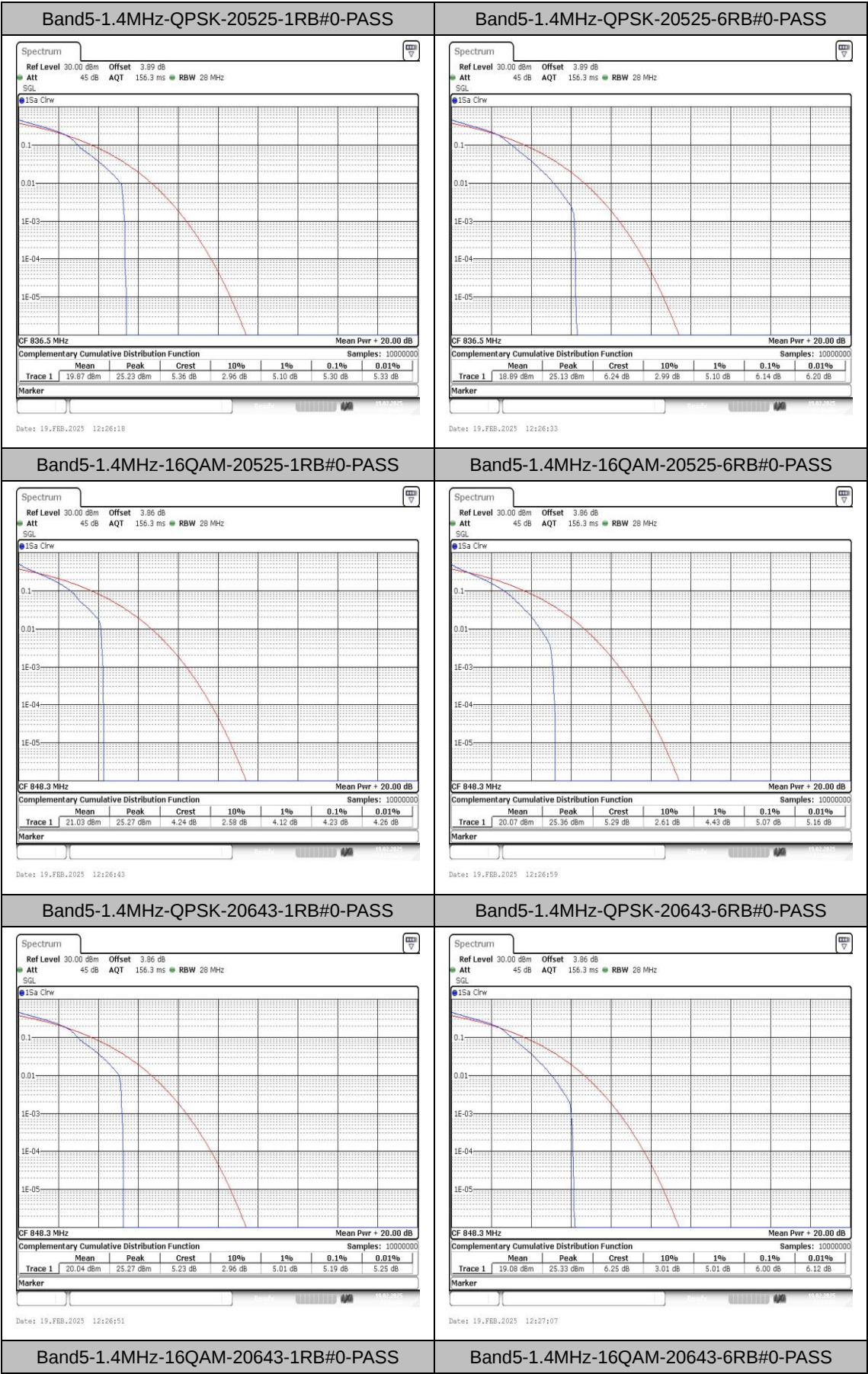
Test Result

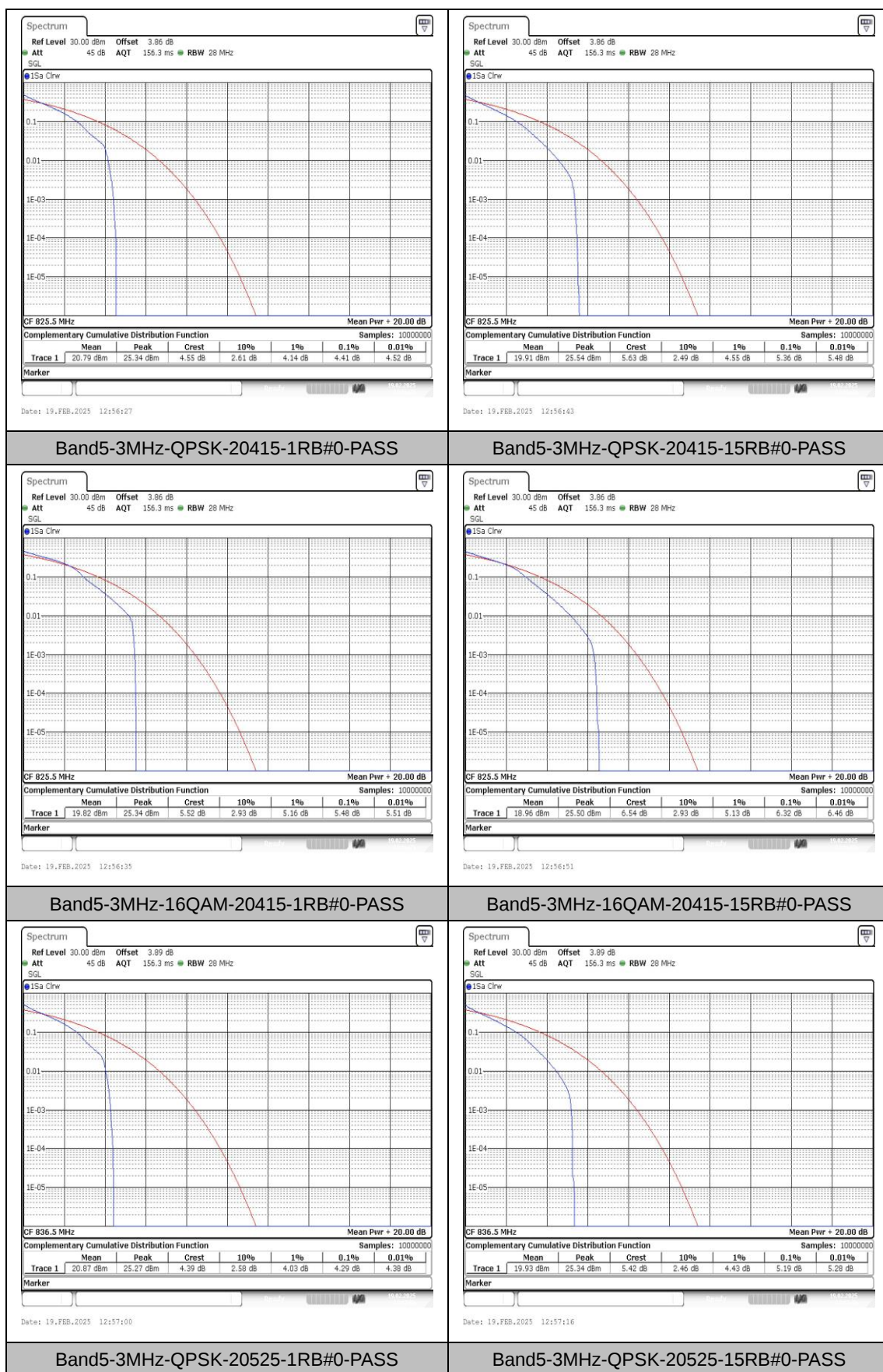
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.41	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.33	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.42	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.26	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.32	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.19	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.30	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.14	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.23	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.07	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.19	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.00	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.41	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.36	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.48	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.32	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.29	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.19	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.33	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.12	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.32	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.19	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.36	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.09	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.46	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.39	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.42	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.32	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.32	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.22	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.25	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.14	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.38	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.30	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.42	13	PASS

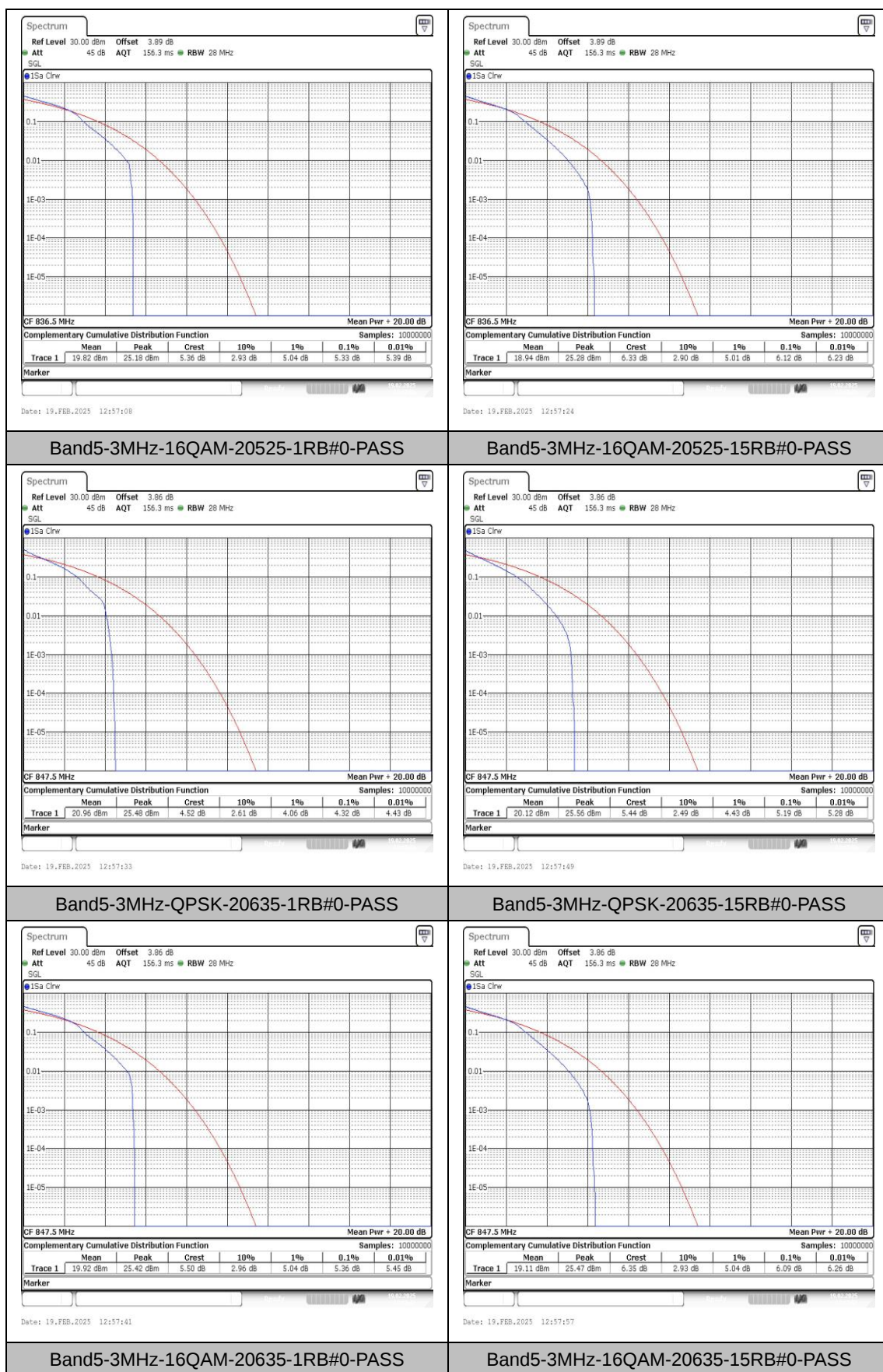
Band5	5MHz	16QAM	20625	25RB#0	6.20	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.43	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.51	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.42	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.35	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.43	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.22	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.42	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.12	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.38	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.45	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.39	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.29	13	PASS

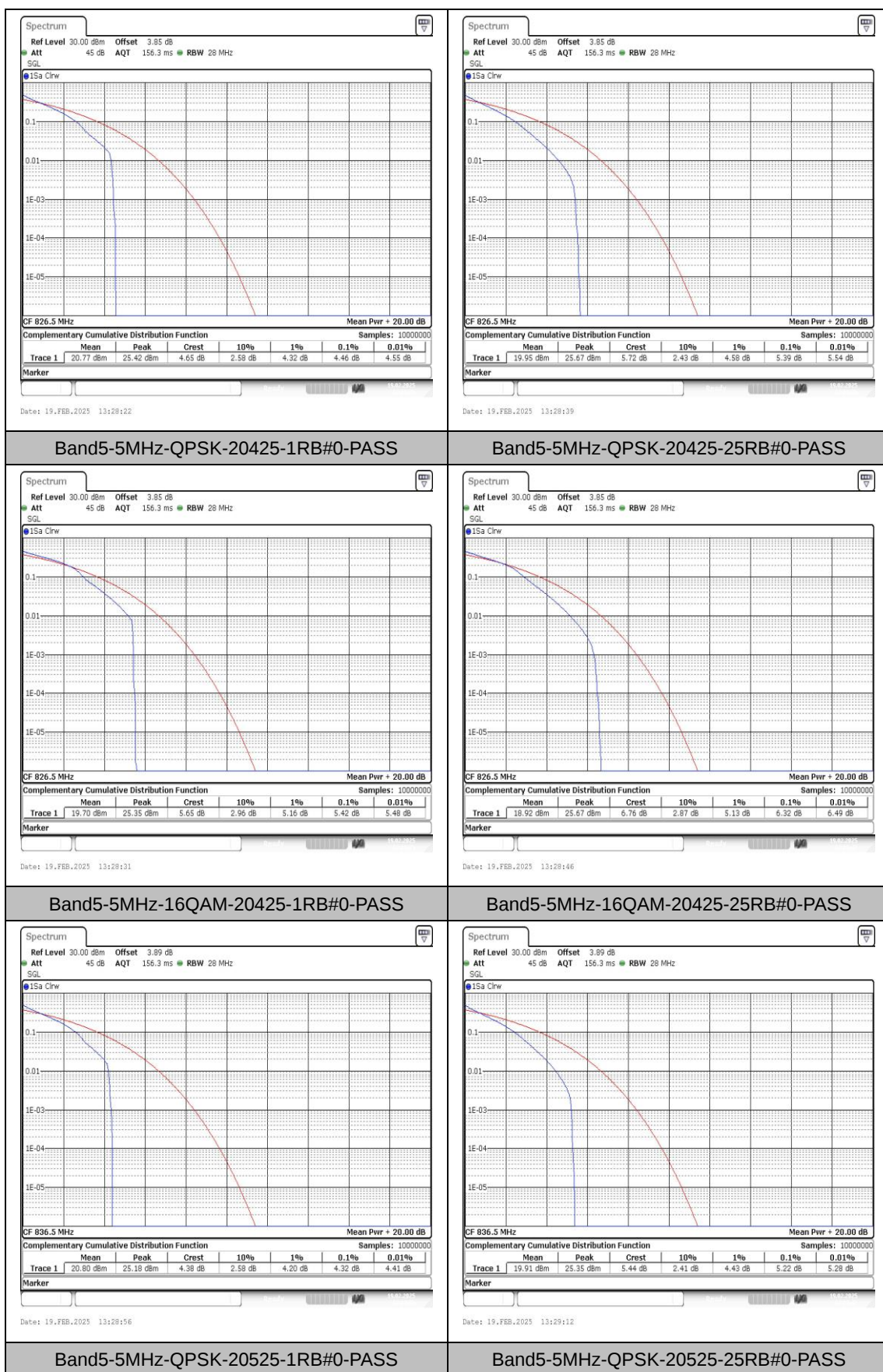
Test Graphs

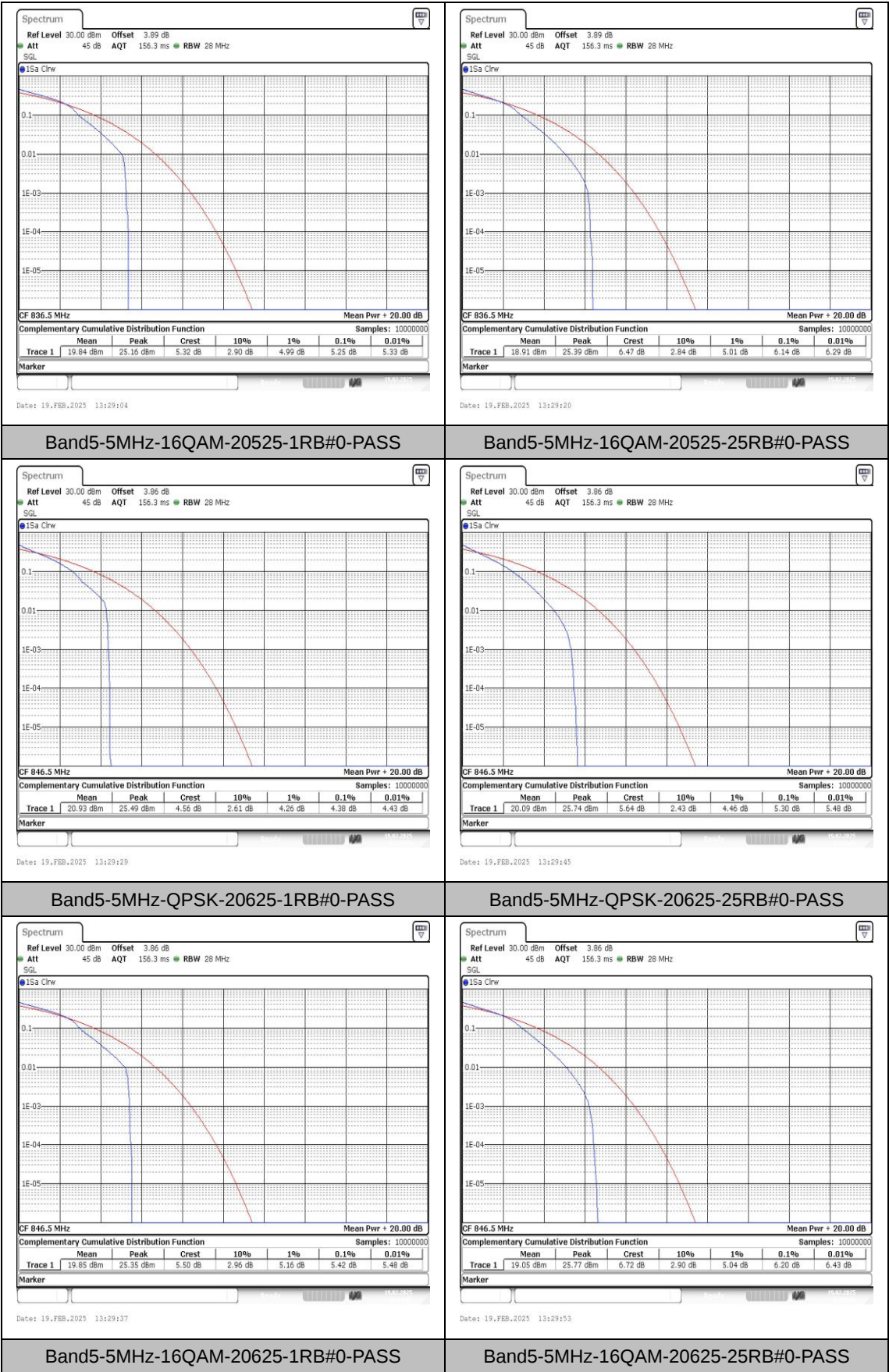


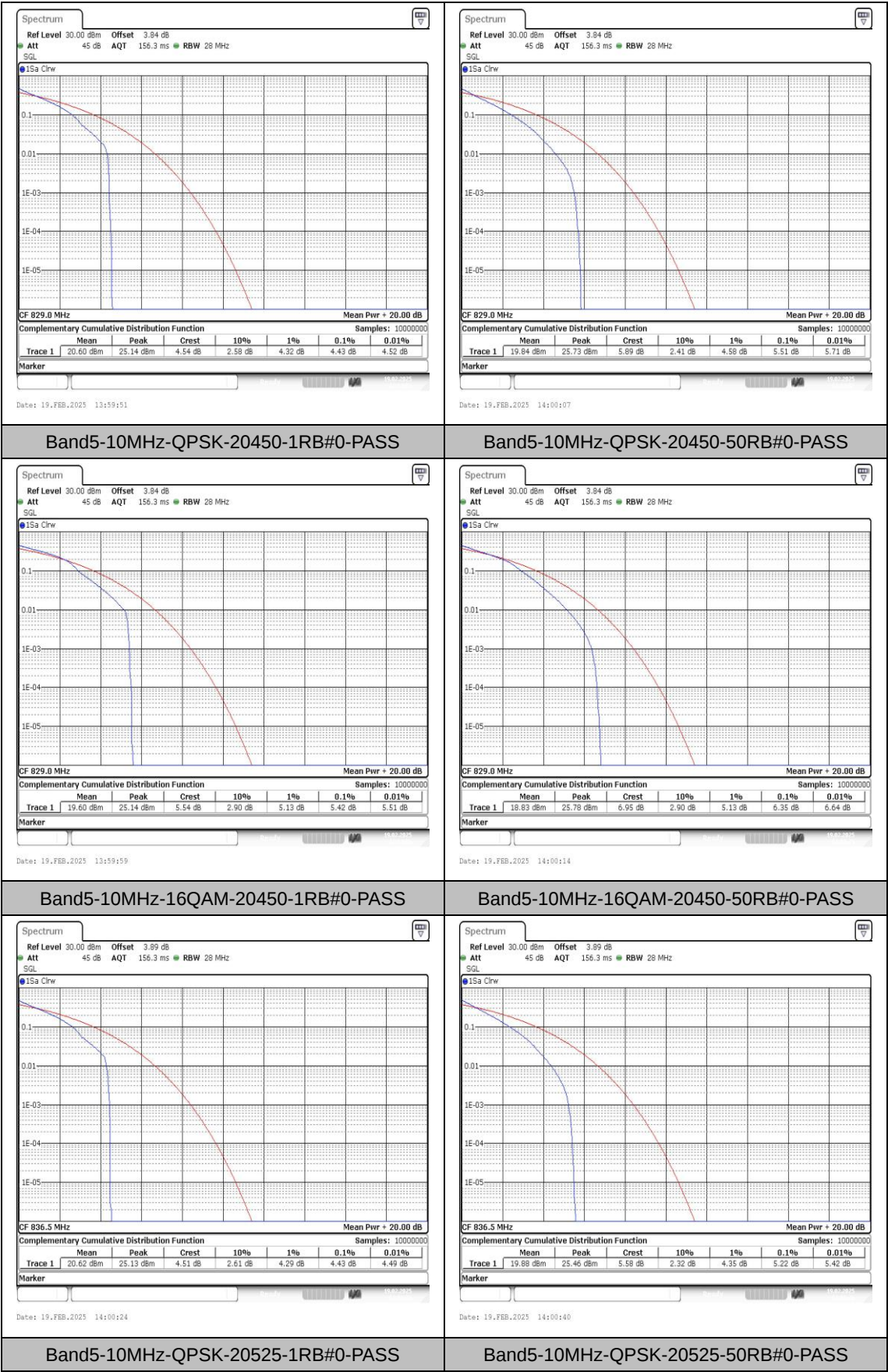


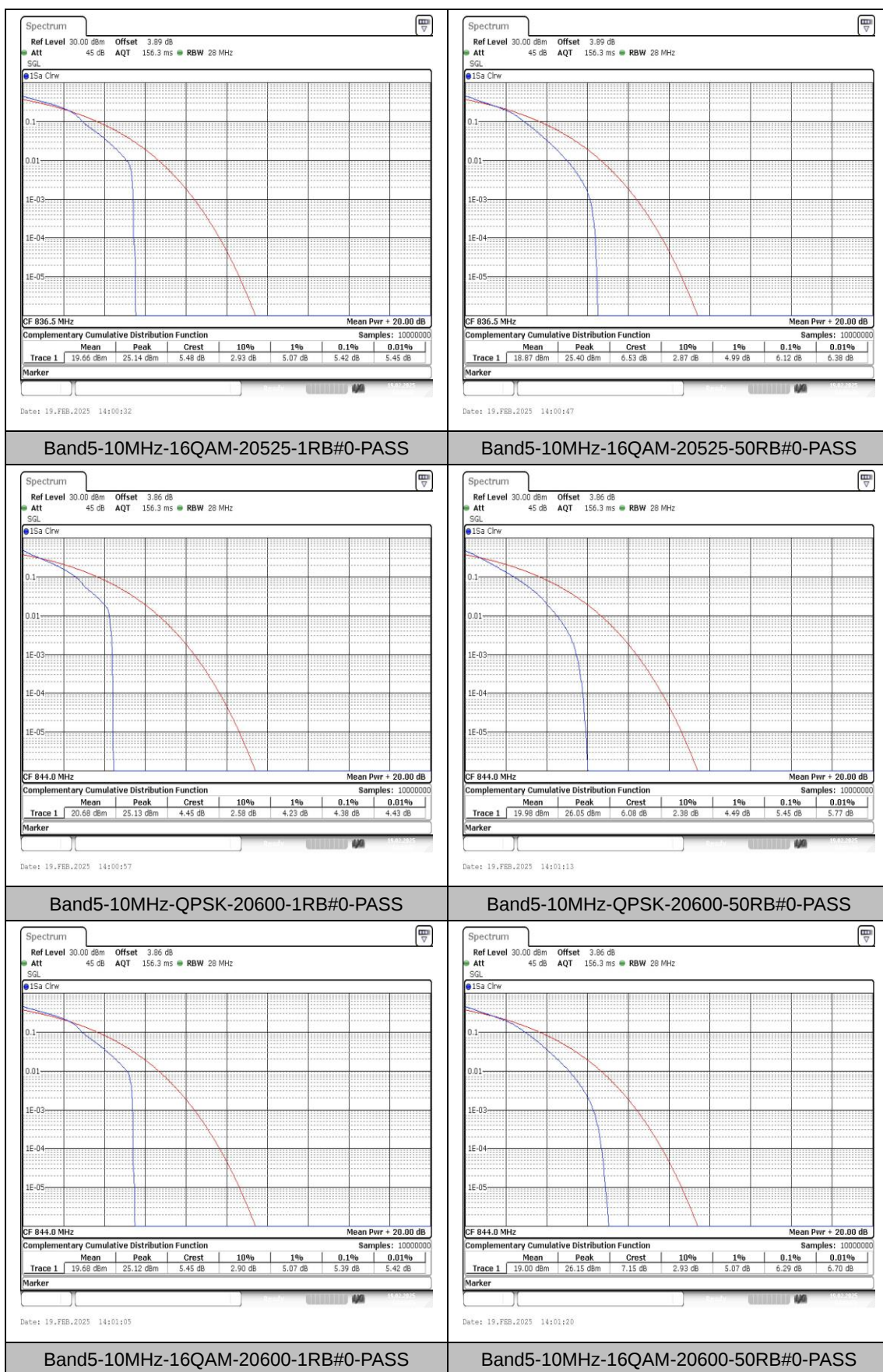










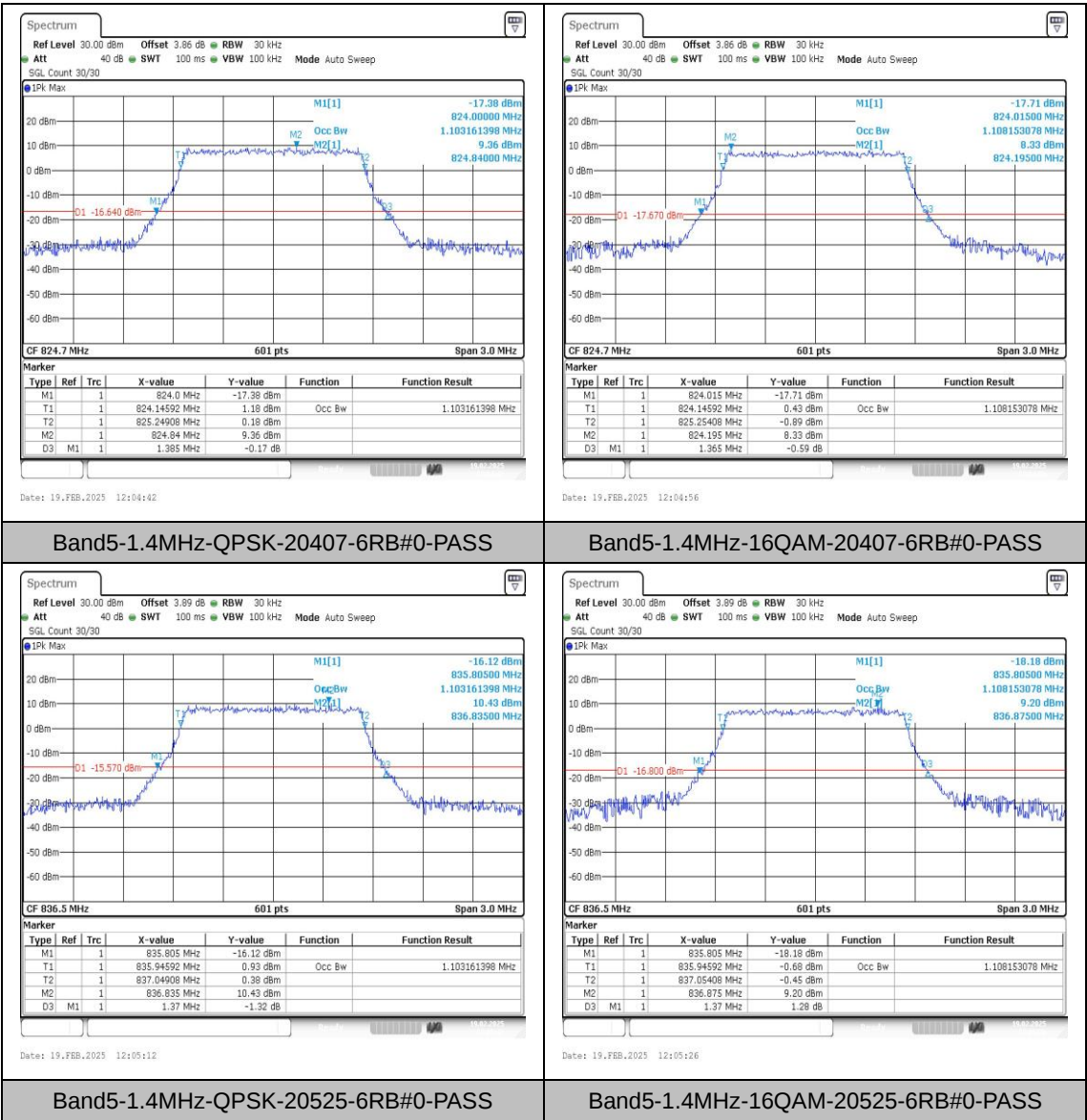


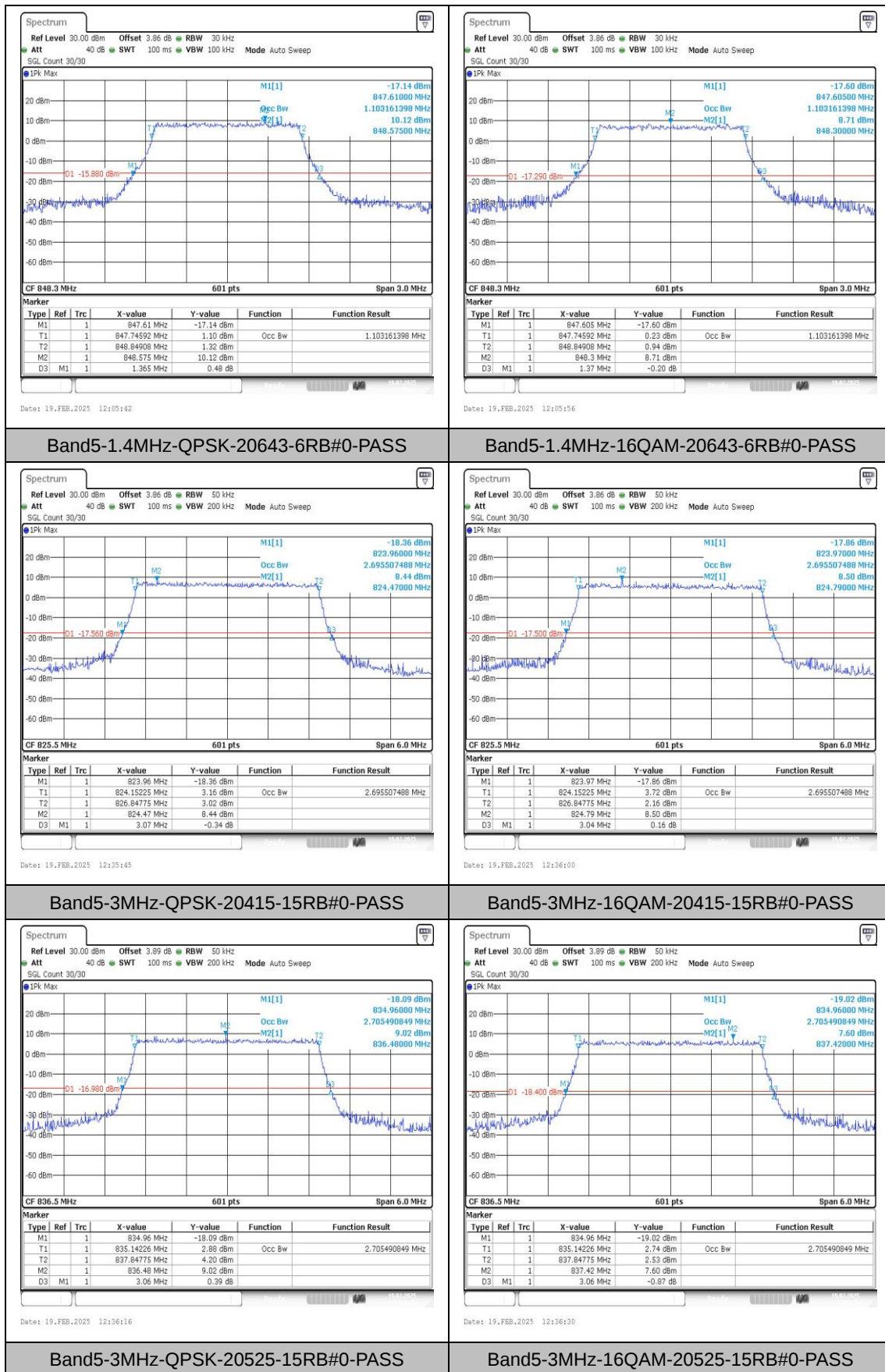
Appendix C: 26dB Bandwidth and Occupied Bandwidth

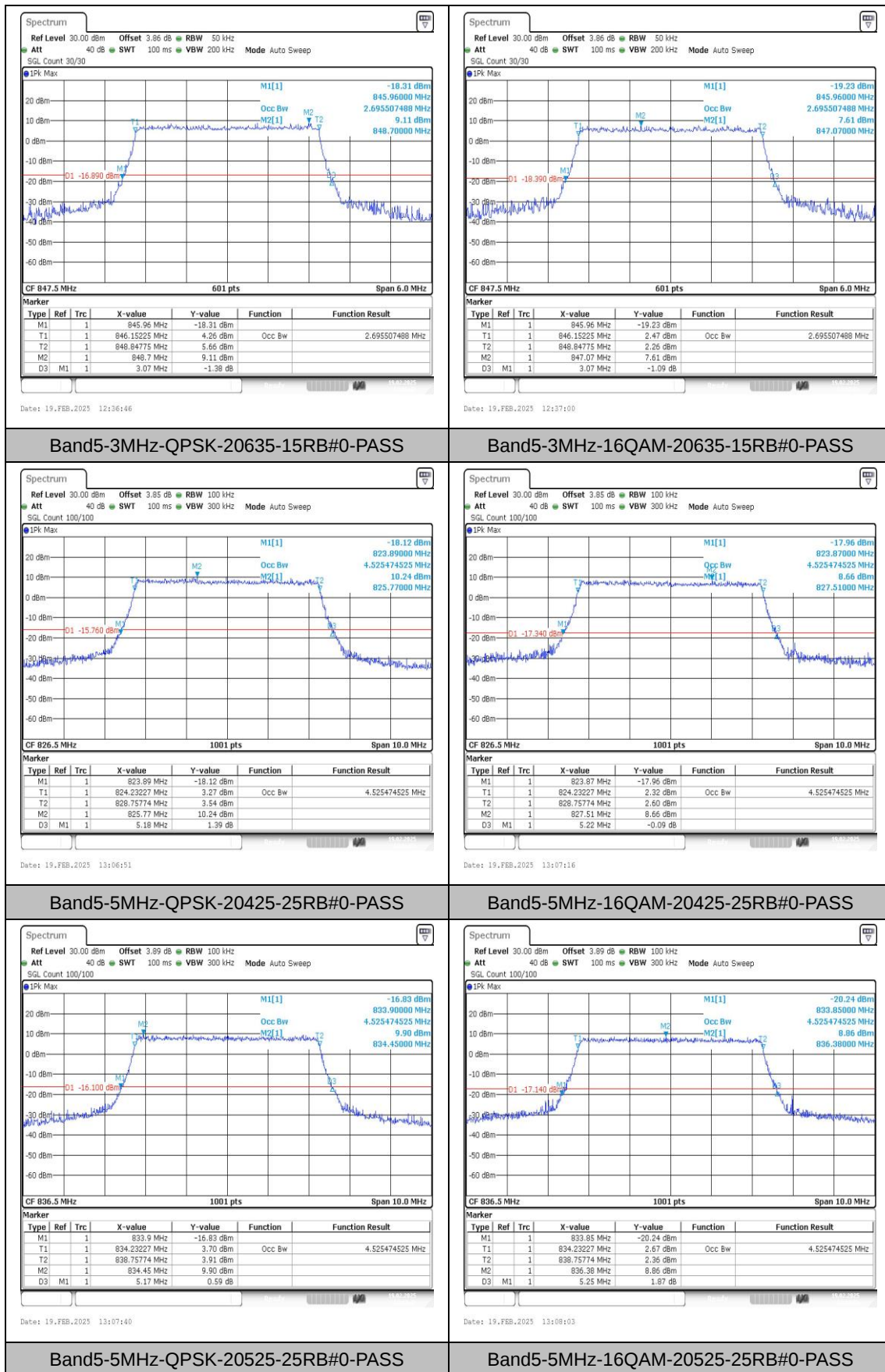
Test Result

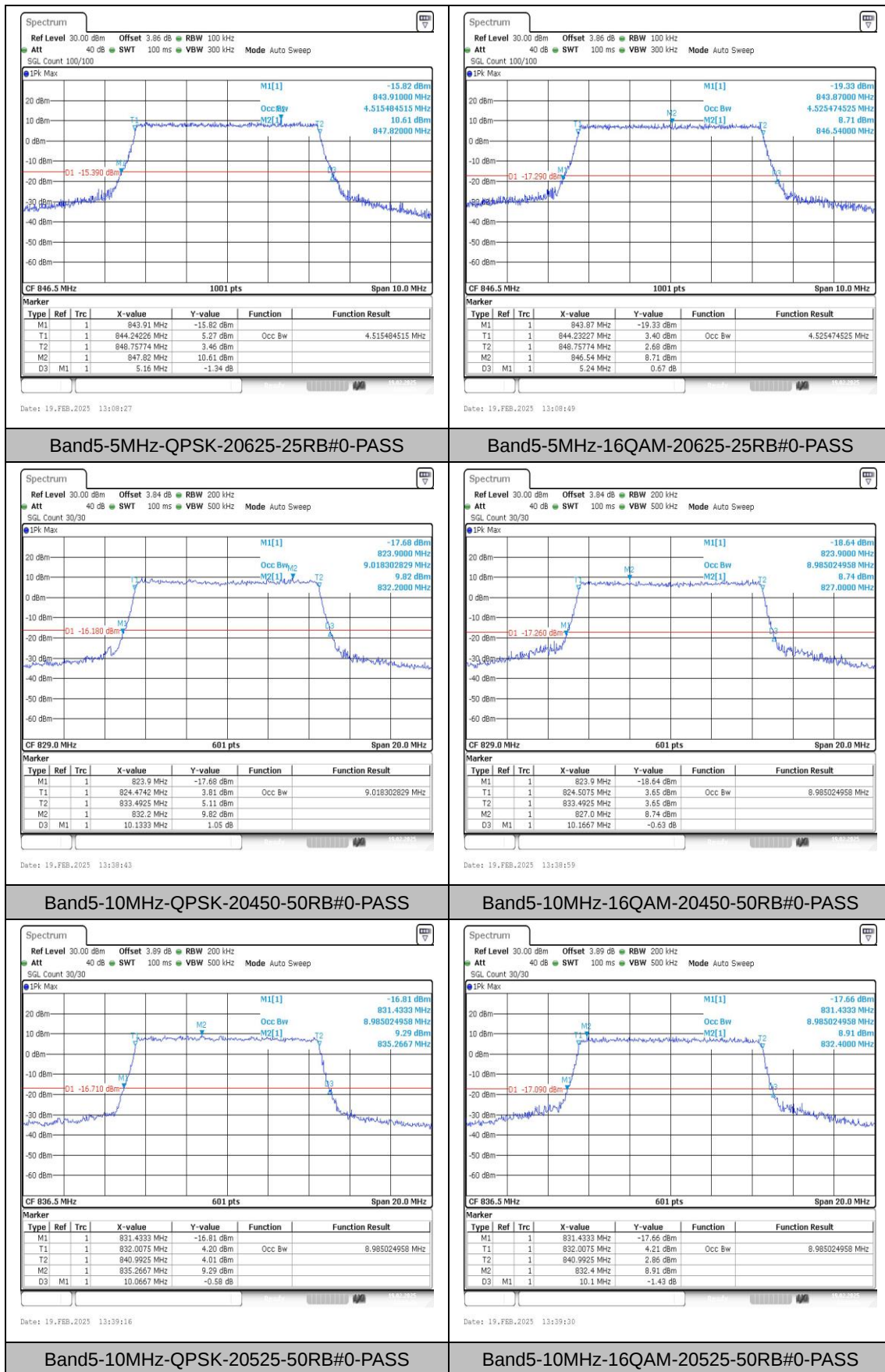
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.103	1.38	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.108	1.36	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.103	1.37	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.108	1.37	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.103	1.37	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.103	1.37	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.696	3.07	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.696	3.04	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.705	3.06	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.705	3.06	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.696	3.07	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.696	3.07	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.525	5.18	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.525	5.22	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.525	5.17	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.525	5.25	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.515	5.16	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.525	5.24	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.018	10.13	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.985	10.17	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.985	10.07	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.985	10.10	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.985	10.13	PASS
Band5	10MHz	16QAM	20600	50RB#0	9.018	10.07	PASS

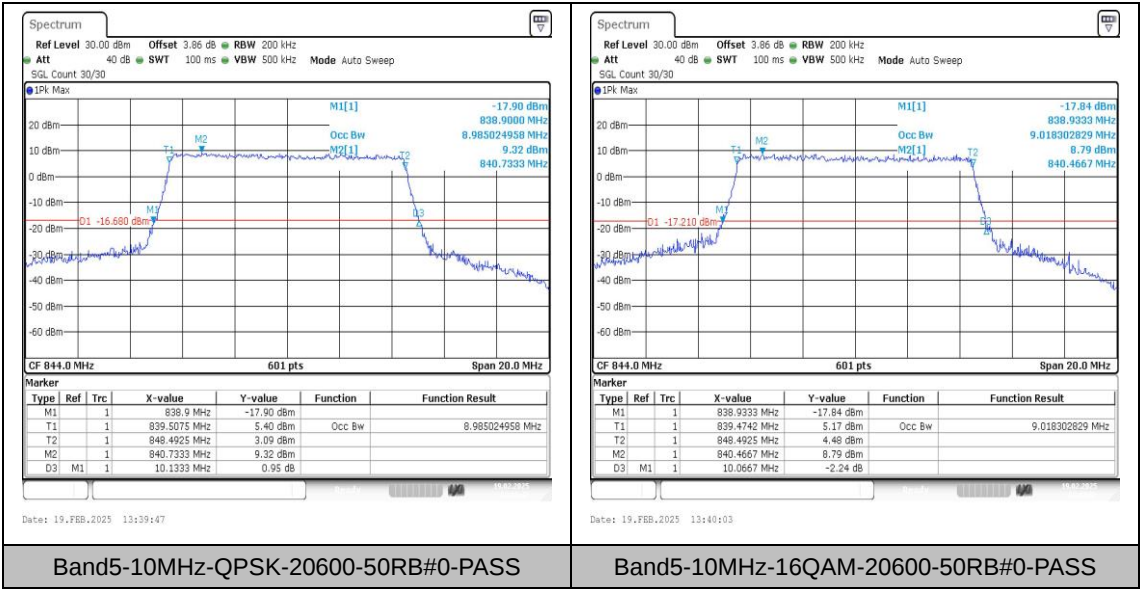
Test Graphs











Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-28.89	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	-56.74	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-33.19	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-29.96	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	-57.26	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-34.68	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	-57.03	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-28.51	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-34.82	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	-57.43	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-29.67	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-36.10	PASS
Band5	3MHz	QPSK	20415	1RB#0	-30.12	PASS
Band5	3MHz	QPSK	20415	1RB#14	-55.58	PASS
Band5	3MHz	QPSK	20415	15RB#0	-31.87	PASS
Band5	3MHz	16QAM	20415	1RB#0	-30.81	PASS
Band5	3MHz	16QAM	20415	1RB#14	-57.32	PASS
Band5	3MHz	16QAM	20415	15RB#0	-33.33	PASS
Band5	3MHz	QPSK	20635	1RB#0	-56.30	PASS
Band5	3MHz	QPSK	20635	1RB#14	-30.10	PASS
Band5	3MHz	QPSK	20635	15RB#0	-33.09	PASS
Band5	3MHz	16QAM	20635	1RB#0	-57.20	PASS
Band5	3MHz	16QAM	20635	1RB#14	-31.23	PASS
Band5	3MHz	16QAM	20635	15RB#0	-34.72	PASS
Band5	5MHz	QPSK	20425	1RB#0	-29.51	PASS
Band5	5MHz	QPSK	20425	1RB#24	-57.68	PASS
Band5	5MHz	QPSK	20425	25RB#0	-33.14	PASS
Band5	5MHz	16QAM	20425	1RB#0	-30.64	PASS
Band5	5MHz	16QAM	20425	1RB#24	-57.50	PASS
Band5	5MHz	16QAM	20425	25RB#0	-34.16	PASS
Band5	5MHz	QPSK	20625	1RB#0	-58.56	PASS
Band5	5MHz	QPSK	20625	1RB#24	-30.42	PASS
Band5	5MHz	QPSK	20625	25RB#0	-34.17	PASS
Band5	5MHz	16QAM	20625	1RB#0	-58.56	PASS
Band5	5MHz	16QAM	20625	1RB#24	-31.07	PASS
Band5	5MHz	16QAM	20625	25RB#0	-35.16	PASS

Band5	10MHz	QPSK	20450	1RB#0	-38.30	PASS
Band5	10MHz	QPSK	20450	1RB#49	-58.90	PASS
Band5	10MHz	QPSK	20450	50RB#0	-37.90	PASS
Band5	10MHz	16QAM	20450	1RB#0	-38.94	PASS
Band5	10MHz	16QAM	20450	1RB#49	-58.88	PASS
Band5	10MHz	16QAM	20450	50RB#0	-38.20	PASS
Band5	10MHz	QPSK	20600	1RB#0	-58.80	PASS
Band5	10MHz	QPSK	20600	1RB#49	-38.78	PASS
Band5	10MHz	QPSK	20600	50RB#0	-39.61	PASS
Band5	10MHz	16QAM	20600	1RB#0	-58.81	PASS
Band5	10MHz	16QAM	20600	1RB#49	-40.05	PASS
Band5	10MHz	16QAM	20600	50RB#0	-40.43	PASS

Test Graphs

