

Appendix for LTE Band 7

CONTENTS

Appendix A: Effective (Isotropic) Radiated Power Output Data 3

 Test Result 3

Appendix B: Peak-to-Average Ratio(CCDF) 8

 Test Result 8

 Test Graphs 10

Appendix C: 26dB Bandwidth and Occupied Bandwidth 34

 Test Result 34

 Test Graphs 35

Appendix D: Band Edge 47

 Test Result 47

 Test Graphs 50

Appendix E: Conducted Spurious Emission 74

 Test Result 74

 Test Graphs 79

Appendix F: Frequency Stability 127

 Test Result 127

Appendix A: Effective (Isotropic) Radiated Power Output Data**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.02	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.11	PASS
Band7	5MHz	QPSK	20775	1RB#24	21.80	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.10	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.11	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.01	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.15	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.44	PASS
Band7	5MHz	QPSK	21100	1RB#12	21.95	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.03	PASS
Band7	5MHz	QPSK	21100	12RB#0	20.75	PASS
Band7	5MHz	QPSK	21100	12RB#6	20.64	PASS
Band7	5MHz	QPSK	21100	12RB#13	20.99	PASS
Band7	5MHz	QPSK	21100	25RB#0	20.89	PASS
Band7	5MHz	QPSK	21425	1RB#0	20.70	PASS
Band7	5MHz	QPSK	21425	1RB#12	21.26	PASS
Band7	5MHz	QPSK	21425	1RB#24	21.29	PASS
Band7	5MHz	QPSK	21425	12RB#0	20.11	PASS
Band7	5MHz	QPSK	21425	12RB#6	20.02	PASS
Band7	5MHz	QPSK	21425	12RB#13	20.38	PASS
Band7	5MHz	QPSK	21425	25RB#0	20.15	PASS
Band7	5MHz	16QAM	20775	1RB#0	20.87	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.02	PASS
Band7	5MHz	16QAM	20775	1RB#24	20.96	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.14	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.14	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.05	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.37	PASS
Band7	5MHz	16QAM	21100	1RB#0	20.61	PASS
Band7	5MHz	16QAM	21100	1RB#12	20.65	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.84	PASS

Band7	5MHz	16QAM	21100	12RB#0	20.73	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.86	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.10	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.91	PASS
Band7	5MHz	16QAM	21425	1RB#0	20.82	PASS
Band7	5MHz	16QAM	21425	1RB#12	20.20	PASS
Band7	5MHz	16QAM	21425	1RB#24	20.52	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.98	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.97	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.44	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.32	PASS
Band7	10MHz	QPSK	20800	1RB#0	21.79	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.22	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.65	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.15	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.24	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.98	PASS
Band7	10MHz	QPSK	21100	1RB#0	21.18	PASS
Band7	10MHz	QPSK	21100	1RB#24	21.98	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.12	PASS
Band7	10MHz	QPSK	21100	25RB#0	20.69	PASS
Band7	10MHz	QPSK	21100	25RB#12	20.71	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.11	PASS
Band7	10MHz	QPSK	21100	50RB#0	20.89	PASS
Band7	10MHz	QPSK	21400	1RB#0	20.94	PASS
Band7	10MHz	QPSK	21400	1RB#24	21.32	PASS
Band7	10MHz	QPSK	21400	1RB#49	21.37	PASS
Band7	10MHz	QPSK	21400	25RB#0	20.95	PASS
Band7	10MHz	QPSK	21400	25RB#12	20.97	PASS
Band7	10MHz	QPSK	21400	25RB#25	20.24	PASS
Band7	10MHz	QPSK	21400	50RB#0	20.19	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.10	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.21	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.01	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.26	PASS

Band7	10MHz	16QAM	20800	25RB#12	20.26	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.92	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.01	PASS
Band7	10MHz	16QAM	21100	1RB#0	20.10	PASS
Band7	10MHz	16QAM	21100	1RB#24	20.68	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.21	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.66	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.85	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.26	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.96	PASS
Band7	10MHz	16QAM	21400	1RB#0	20.17	PASS
Band7	10MHz	16QAM	21400	1RB#24	20.36	PASS
Band7	10MHz	16QAM	21400	1RB#49	20.60	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.04	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.04	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.40	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.16	PASS
Band7	15MHz	QPSK	20825	1RB#0	21.96	PASS
Band7	15MHz	QPSK	20825	1RB#38	21.89	PASS
Band7	15MHz	QPSK	20825	1RB#74	21.53	PASS
Band7	15MHz	QPSK	20825	38RB#0	21.23	PASS
Band7	15MHz	QPSK	20825	38RB#18	21.01	PASS
Band7	15MHz	QPSK	20825	38RB#37	20.76	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.04	PASS
Band7	15MHz	QPSK	21100	1RB#0	20.99	PASS
Band7	15MHz	QPSK	21100	1RB#38	21.66	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.08	PASS
Band7	15MHz	QPSK	21100	38RB#0	20.05	PASS
Band7	15MHz	QPSK	21100	38RB#18	20.85	PASS
Band7	15MHz	QPSK	21100	38RB#37	21.43	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.91	PASS
Band7	15MHz	QPSK	21375	1RB#0	21.71	PASS
Band7	15MHz	QPSK	21375	1RB#38	20.77	PASS
Band7	15MHz	QPSK	21375	1RB#74	21.23	PASS
Band7	15MHz	QPSK	21375	38RB#0	21.13	PASS
Band7	15MHz	QPSK	21375	38RB#18	20.32	PASS

Band7	15MHz	QPSK	21375	38RB#37	20.40	PASS
Band7	15MHz	QPSK	21375	75RB#0	20.18	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.28	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.04	PASS
Band7	15MHz	16QAM	20825	1RB#74	20.43	PASS
Band7	15MHz	16QAM	20825	38RB#0	21.22	PASS
Band7	15MHz	16QAM	20825	38RB#18	21.01	PASS
Band7	15MHz	16QAM	20825	38RB#37	20.68	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.94	PASS
Band7	15MHz	16QAM	21100	1RB#0	20.05	PASS
Band7	15MHz	16QAM	21100	1RB#38	20.76	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.43	PASS
Band7	15MHz	16QAM	21100	38RB#0	20.13	PASS
Band7	15MHz	16QAM	21100	38RB#18	20.84	PASS
Band7	15MHz	16QAM	21100	38RB#37	21.30	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.98	PASS
Band7	15MHz	16QAM	21375	1RB#0	20.77	PASS
Band7	15MHz	16QAM	21375	1RB#38	20.76	PASS
Band7	15MHz	16QAM	21375	1RB#74	20.83	PASS
Band7	15MHz	16QAM	21375	38RB#0	21.04	PASS
Band7	15MHz	16QAM	21375	38RB#18	20.29	PASS
Band7	15MHz	16QAM	21375	38RB#37	20.39	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.24	PASS
Band7	20MHz	QPSK	20850	1RB#0	21.94	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.19	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.06	PASS
Band7	20MHz	QPSK	20850	50RB#0	20.99	PASS
Band7	20MHz	QPSK	20850	50RB#25	21.10	PASS
Band7	20MHz	QPSK	20850	50RB#50	20.77	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.92	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	21.77	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.36	PASS
Band7	20MHz	QPSK	21100	50RB#0	20.39	PASS
Band7	20MHz	QPSK	21100	50RB#25	20.41	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.29	PASS

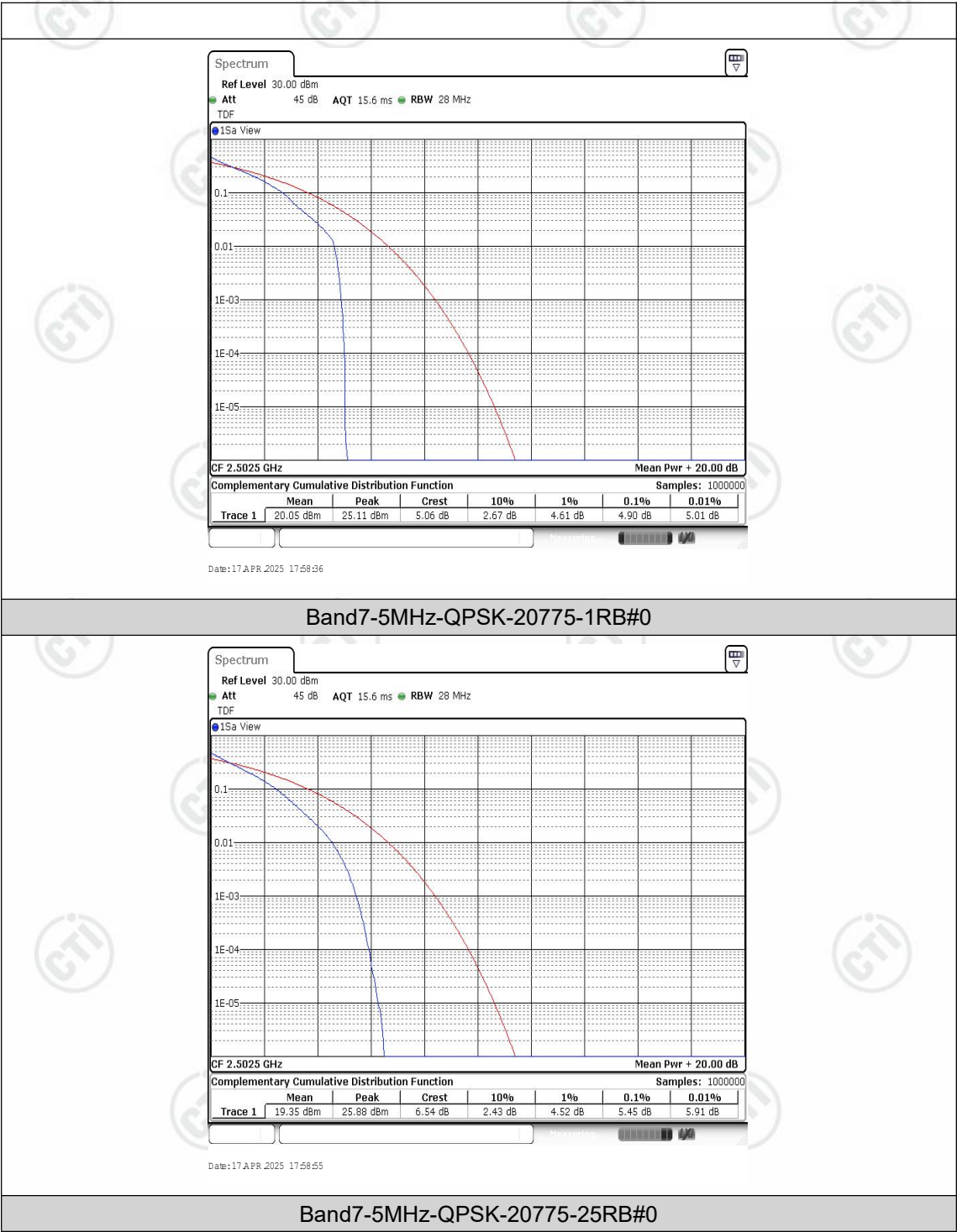
Band7	20MHz	QPSK	21100	100RB#0	20.88	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.06	PASS
Band7	20MHz	QPSK	21350	1RB#49	21.27	PASS
Band7	20MHz	QPSK	21350	1RB#99	20.89	PASS
Band7	20MHz	QPSK	21350	50RB#0	20.73	PASS
Band7	20MHz	QPSK	21350	50RB#25	20.63	PASS
Band7	20MHz	QPSK	21350	50RB#50	20.06	PASS
Band7	20MHz	QPSK	21350	100RB#0	20.34	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.86	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.06	PASS
Band7	20MHz	16QAM	20850	1RB#99	20.01	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.14	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.27	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.82	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.85	PASS
Band7	20MHz	16QAM	21100	1RB#0	20.13	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.53	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.28	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.47	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.34	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.26	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.92	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.16	PASS
Band7	20MHz	16QAM	21350	1RB#49	20.98	PASS
Band7	20MHz	16QAM	21350	1RB#99	20.23	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.84	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.85	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.15	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.41	PASS

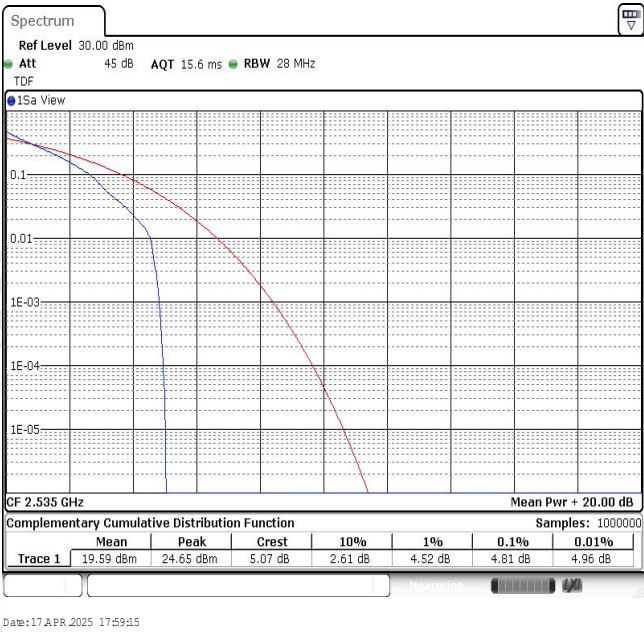
Appendix B: Peak-to-Average Ratio(CCDF)**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	4.90	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.45	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	4.81	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.42	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	4.81	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.39	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	5.71	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.23	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	5.68	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.23	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	5.74	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.20	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	4.84	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.42	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	4.75	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.36	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.70	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.36	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	5.88	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.23	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	5.59	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.17	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	5.71	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.17	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	4.81	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.48	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	4.70	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.51	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	4.70	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.54	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	5.88	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.20	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	5.62	13	PASS

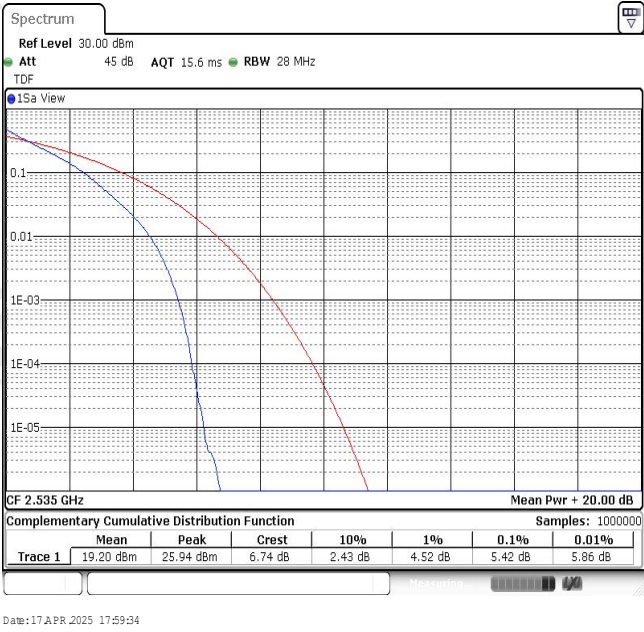
Band7	15MHz	16QAM	21100	75RB#0	6.23	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	5.68	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.23	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	4.78	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.10	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	4.64	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.19	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.75	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.25	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	5.88	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.00	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	5.51	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.09	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	5.77	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.09	13	PASS

Test Graphs

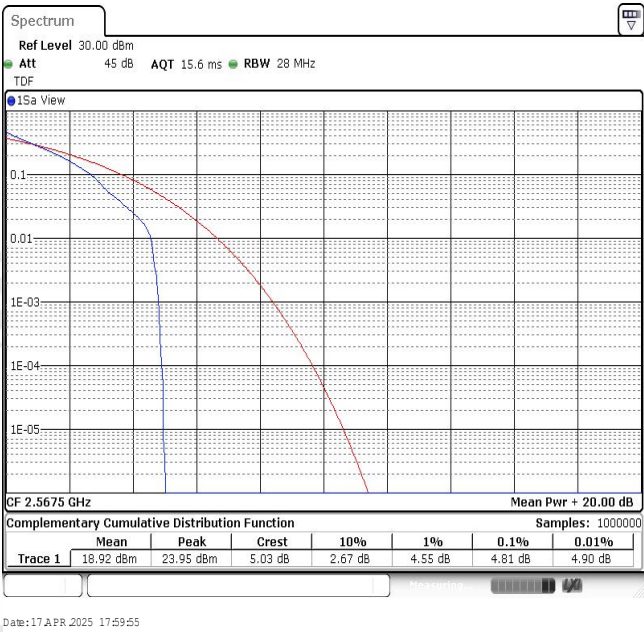




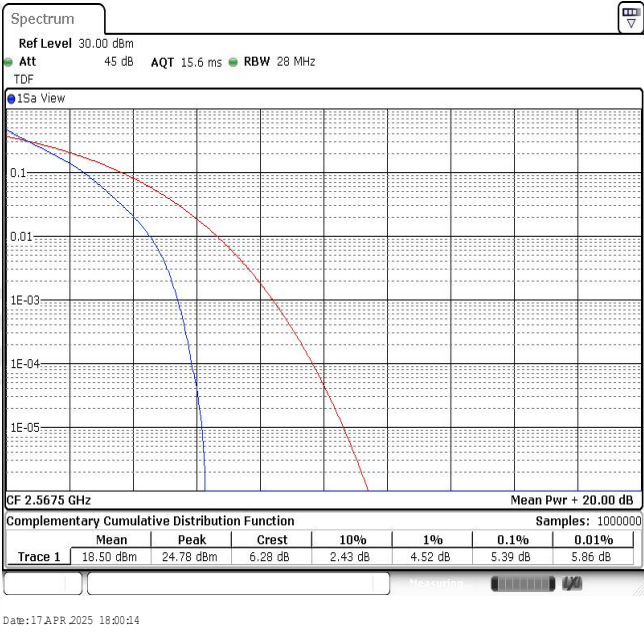
Band7-5MHz-QPSK-21100-1RB#0



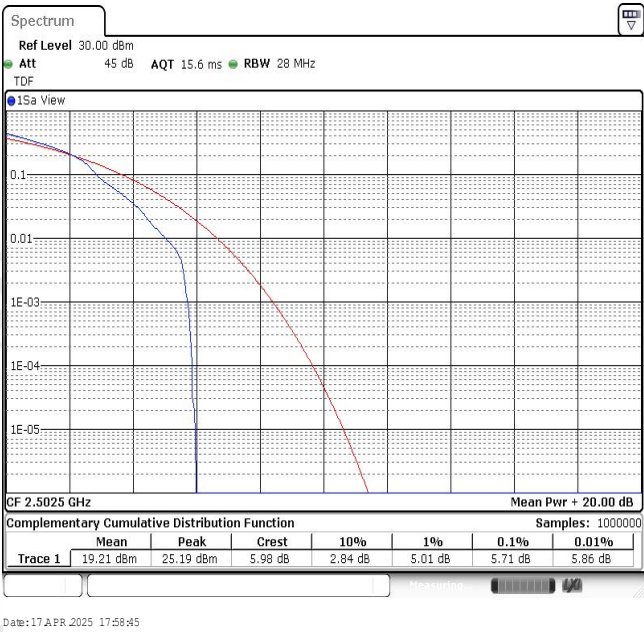
Band7-5MHz-QPSK-21100-25RB#0



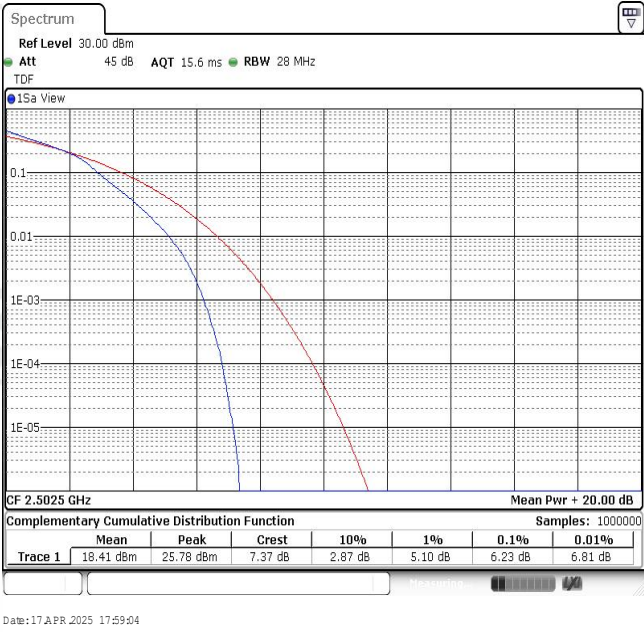
Band7-5MHz-QPSK-21425-1RB#0



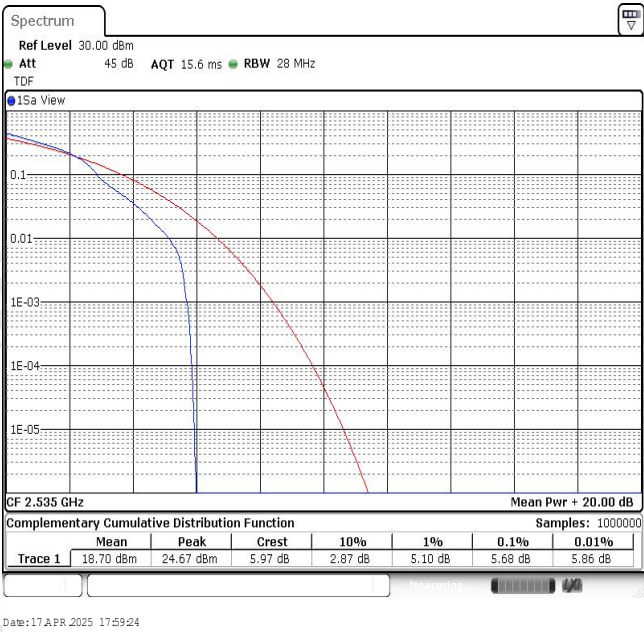
Band7-5MHz-QPSK-21425-25RB#0



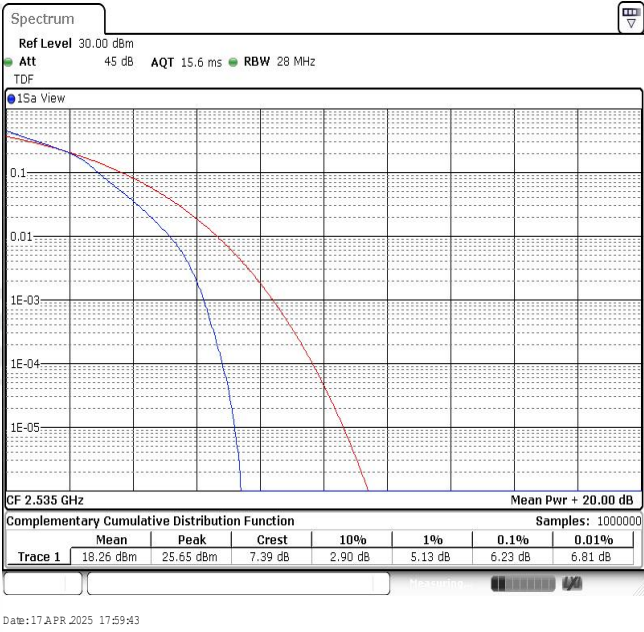
Band7-5MHz-16QAM-20775-1RB#0



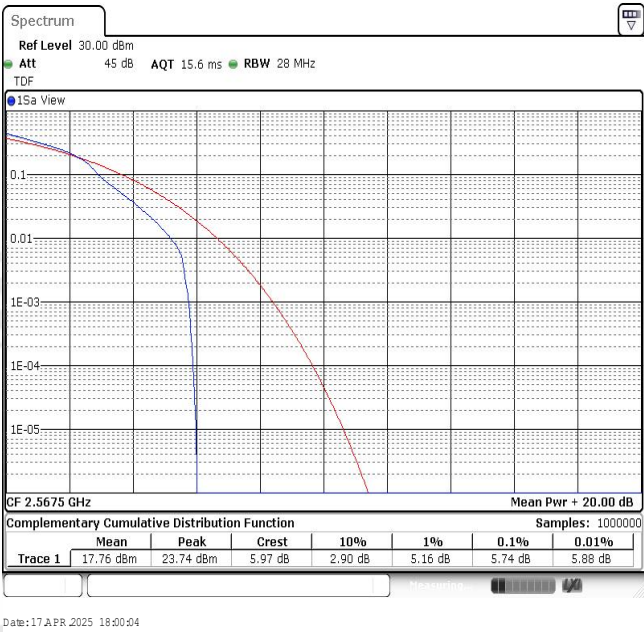
Band7-5MHz-16QAM-20775-25RB#0



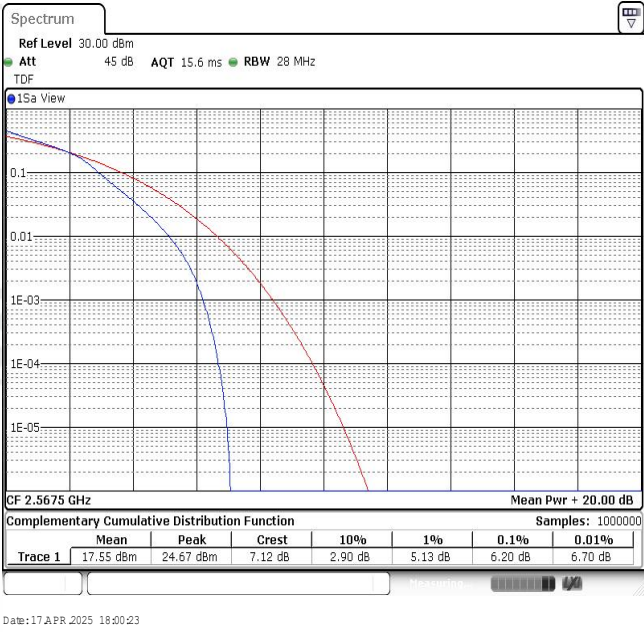
Band7-5MHz-16QAM-21100-1RB#0



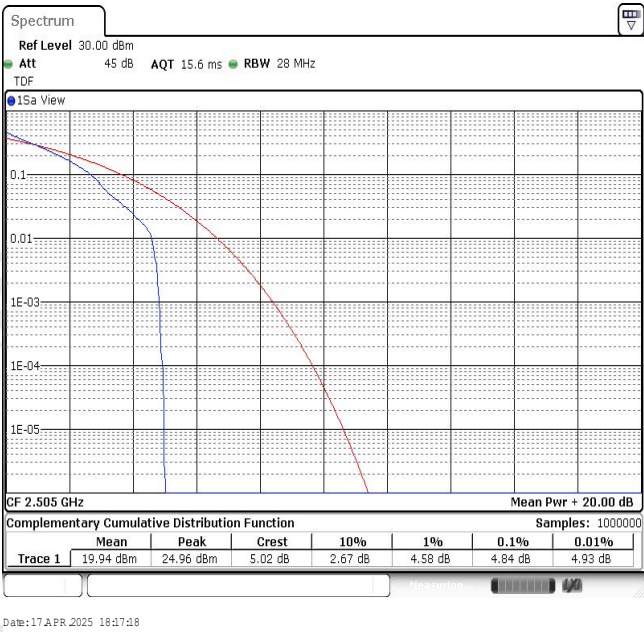
Band7-5MHz-16QAM-21100-25RB#0



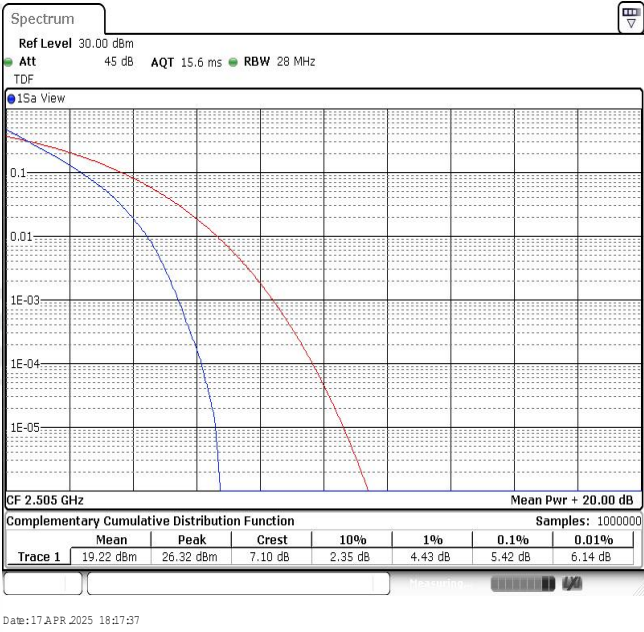
Band7-5MHz-16QAM-21425-1RB#0



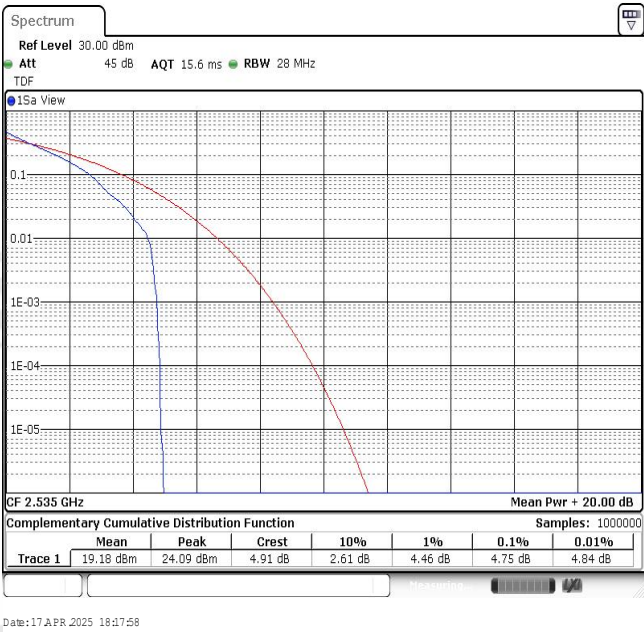
Band7-5MHz-16QAM-21425-25RB#0



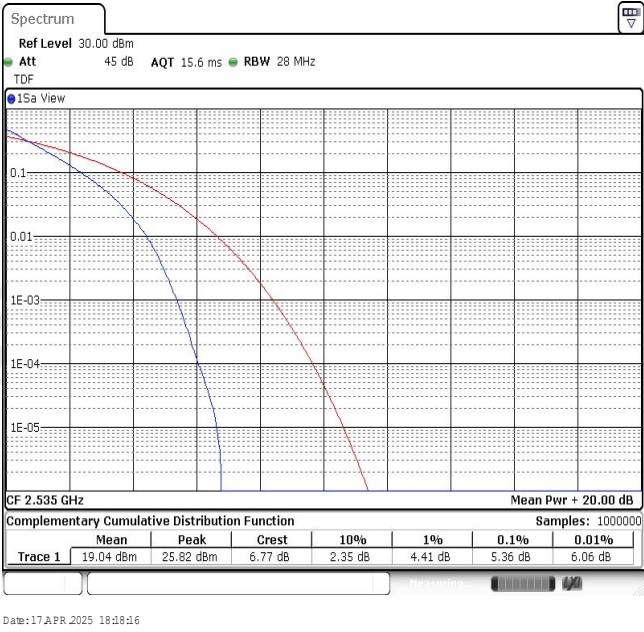
Band7-10MHz-QPSK-20800-1RB#0



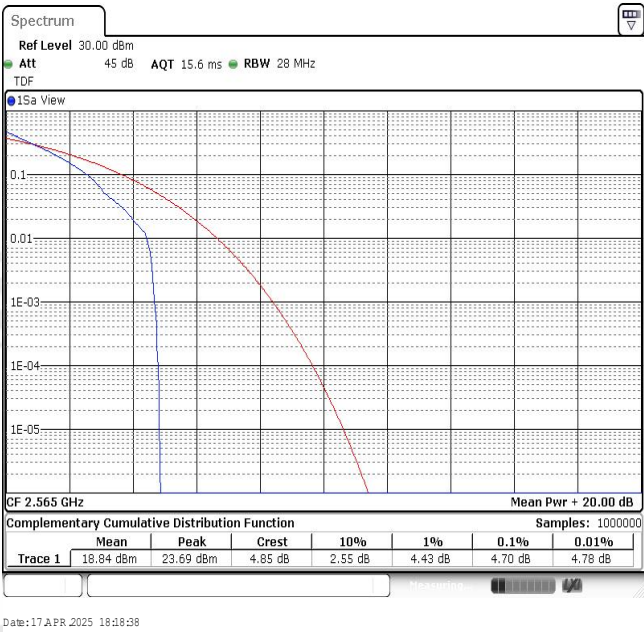
Band7-10MHz-QPSK-20800-50RB#0



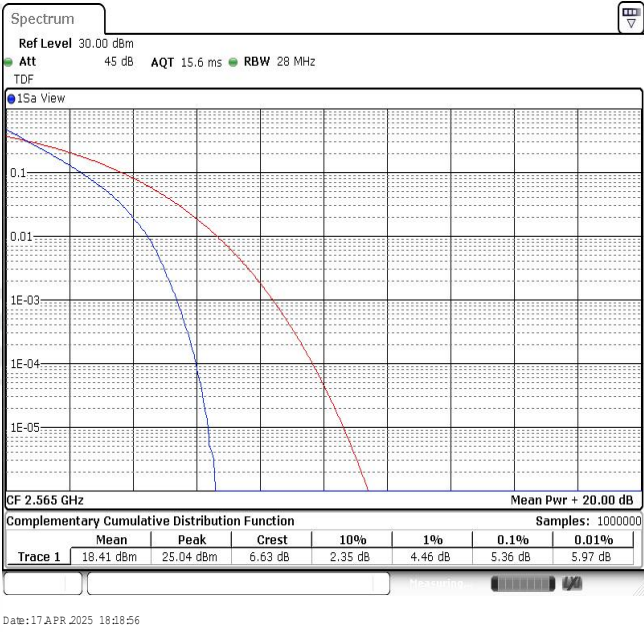
Band7-10MHz-QPSK-21100-1RB#0



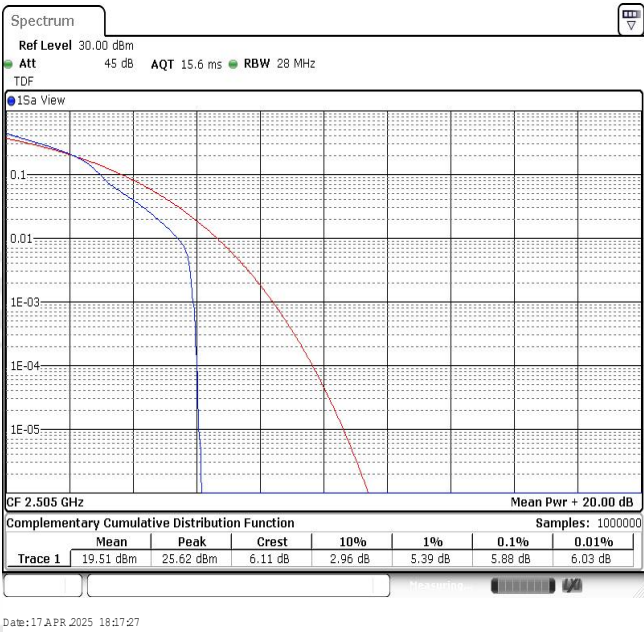
Band7-10MHz-QPSK-21100-50RB#0



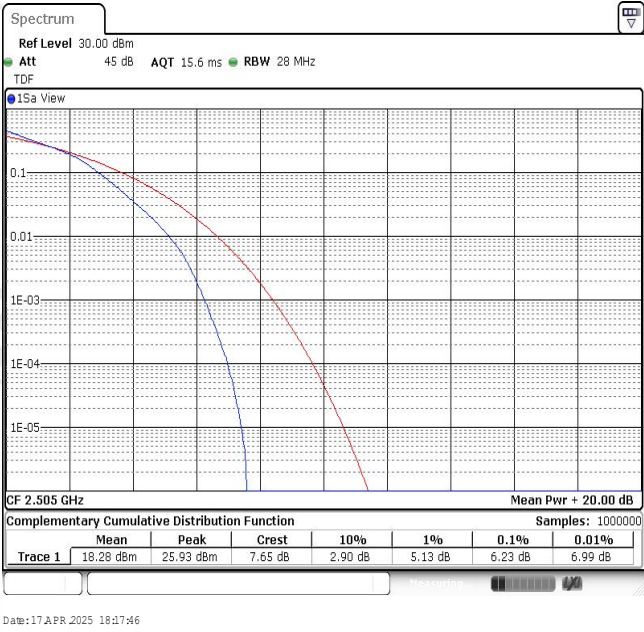
Band7-10MHz-QPSK-21400-1RB#0



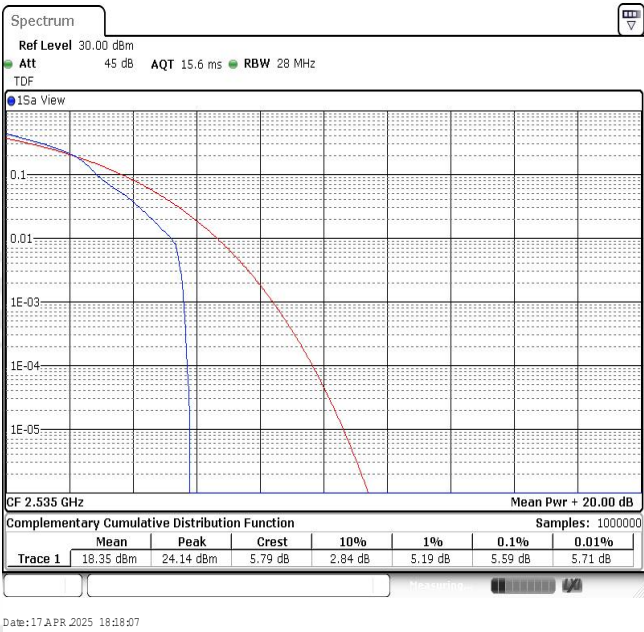
Band7-10MHz-QPSK-21400-50RB#0



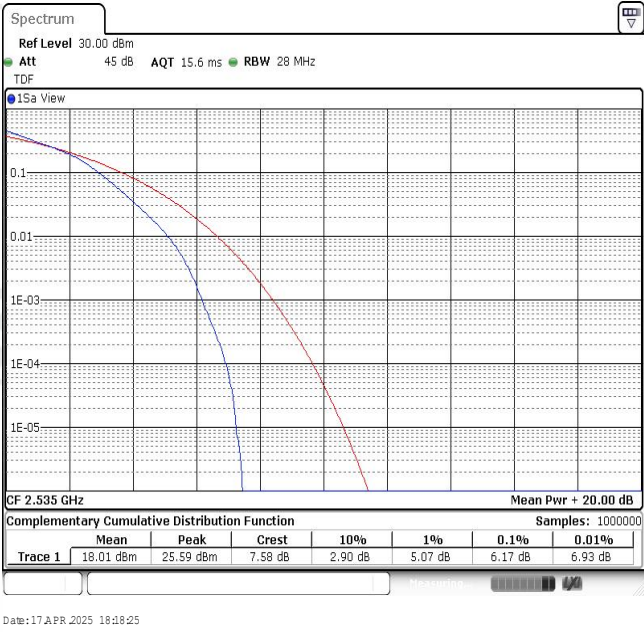
Band7-10MHz-16QAM-20800-1RB#0



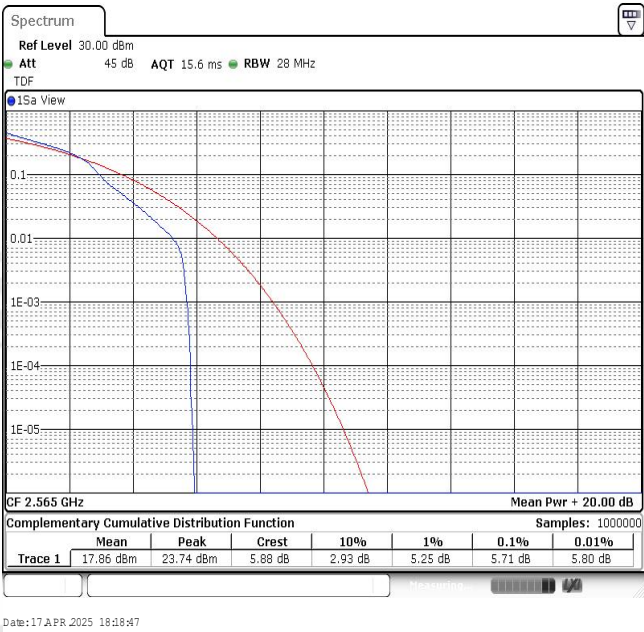
Band7-10MHz-16QAM-20800-50RB#0



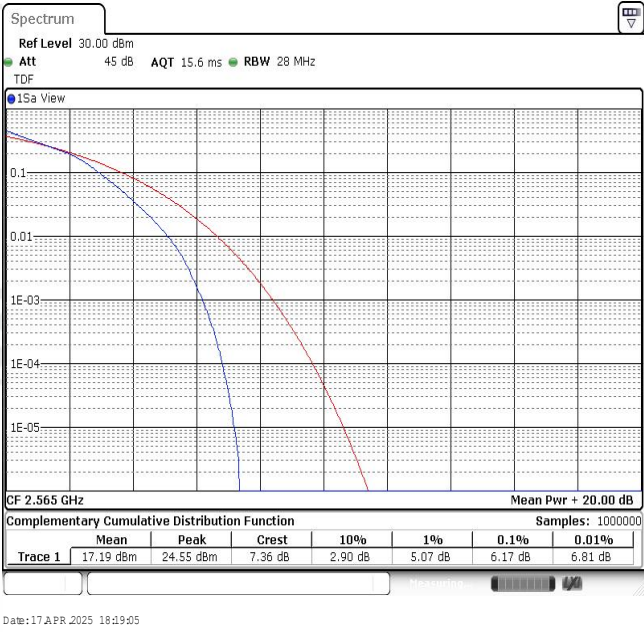
Band7-10MHz-16QAM-21100-1RB#0



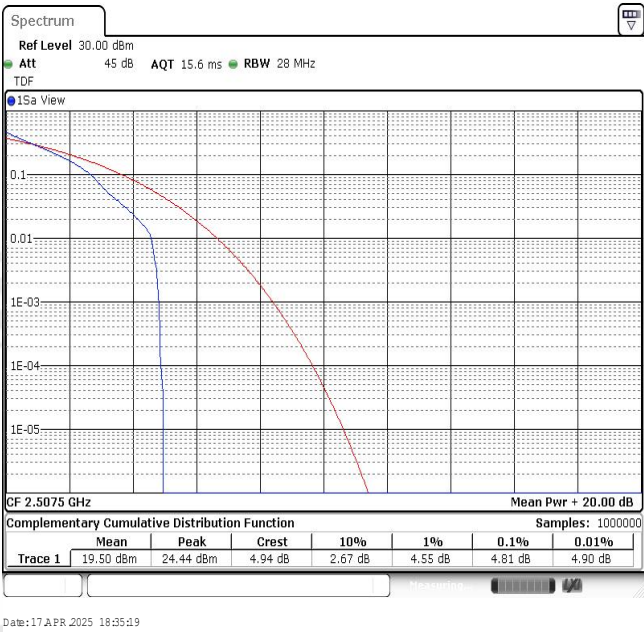
Band7-10MHz-16QAM-21100-50RB#0



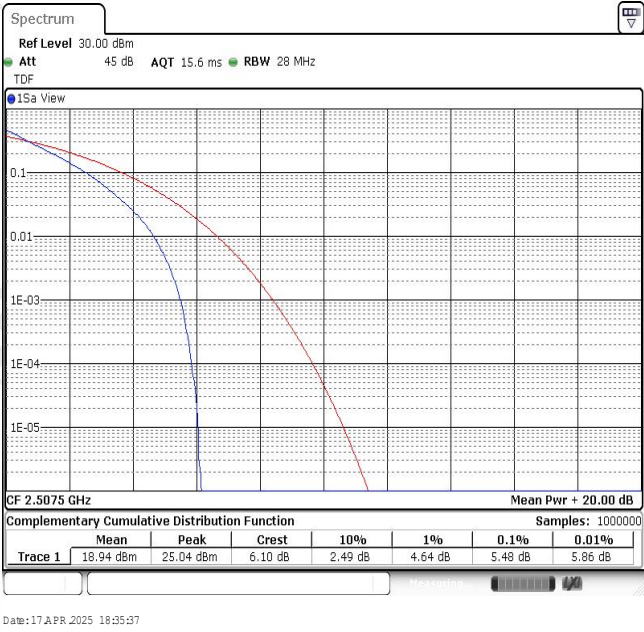
Band7-10MHz-16QAM-21400-1RB#0



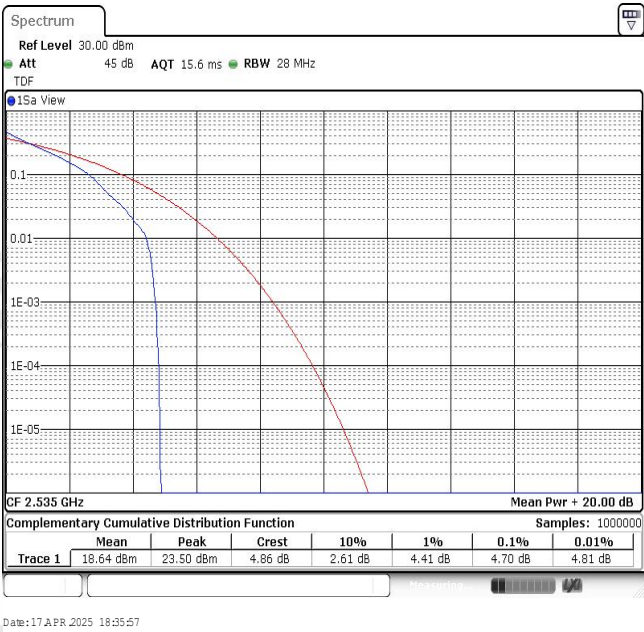
Band7-10MHz-16QAM-21400-50RB#0



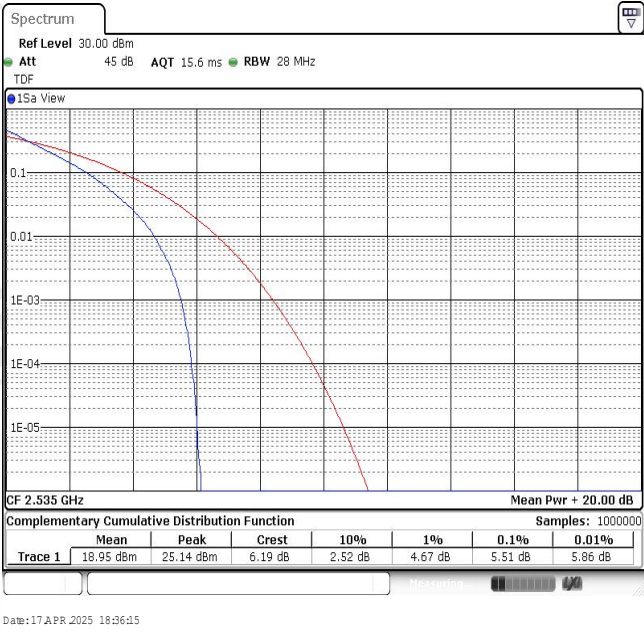
Band7-15MHz-QPSK-20825-1RB#0



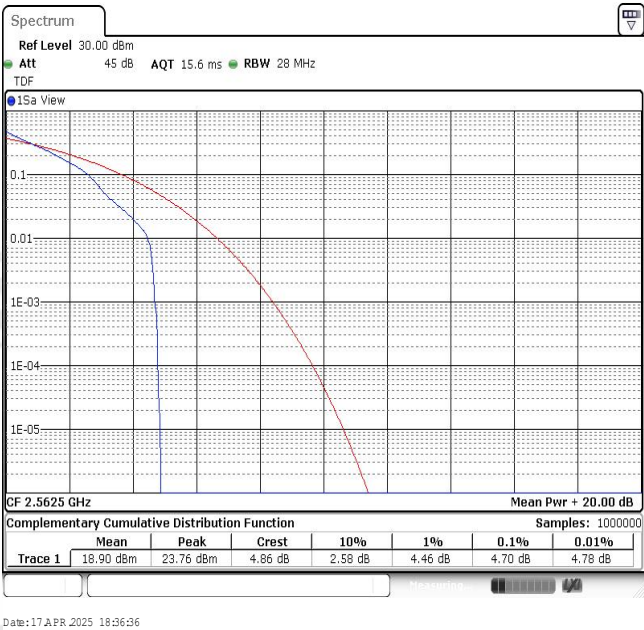
Band7-15MHz-QPSK-20825-75RB#0



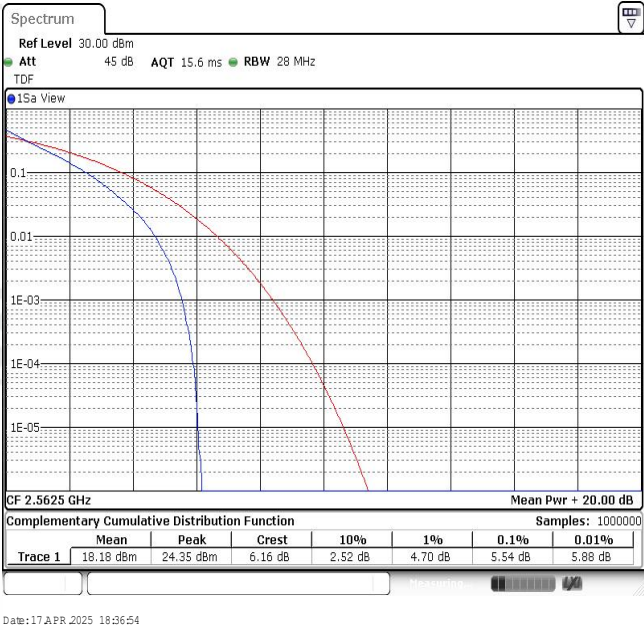
Band7-15MHz-QPSK-21100-1RB#0



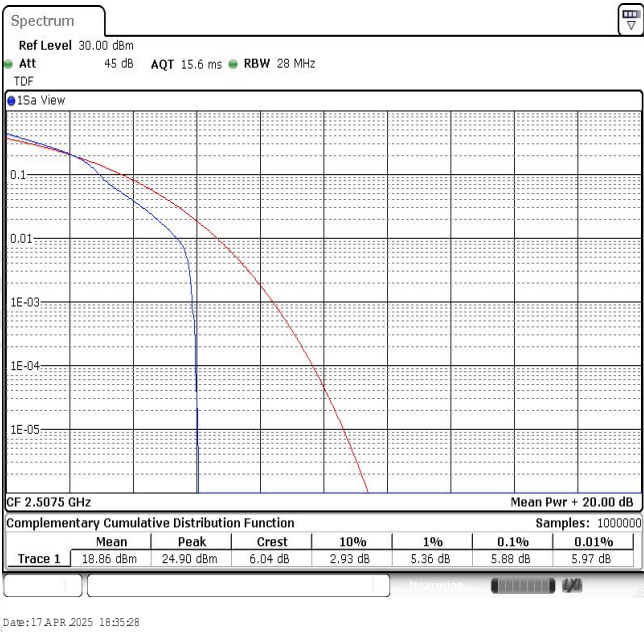
Band7-15MHz-QPSK-21100-75RB#0



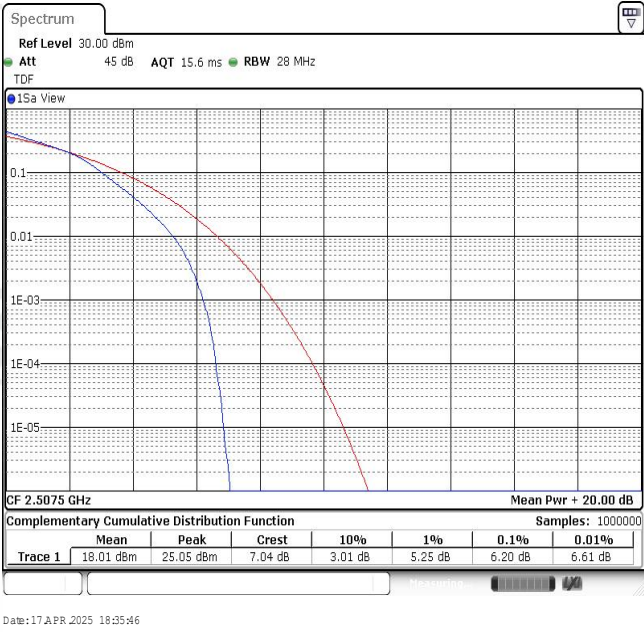
Band7-15MHz-QPSK-21375-1RB#0



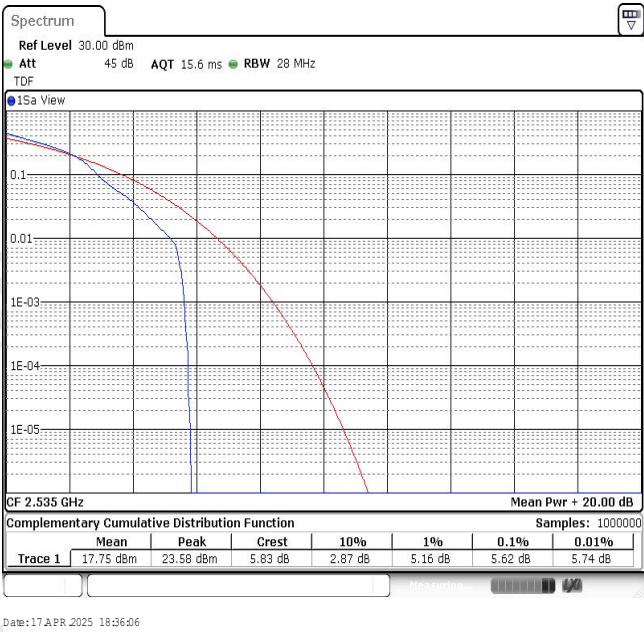
Band7-15MHz-QPSK-21375-75RB#0



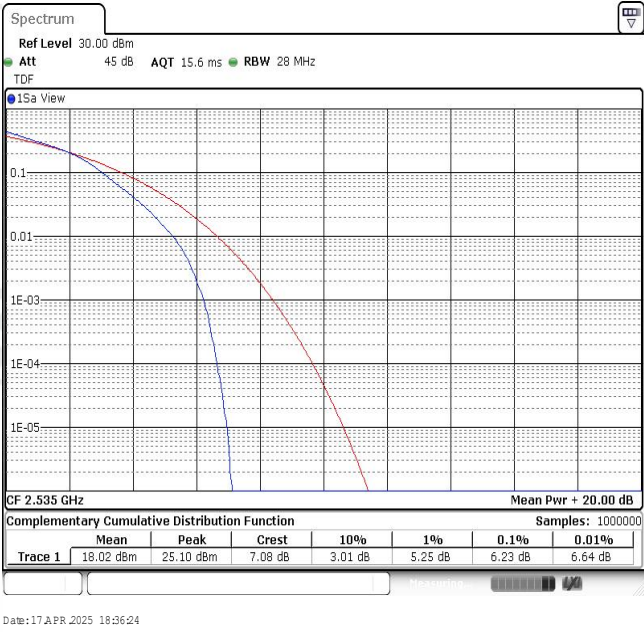
Band7-15MHz-16QAM-20825-1RB#0



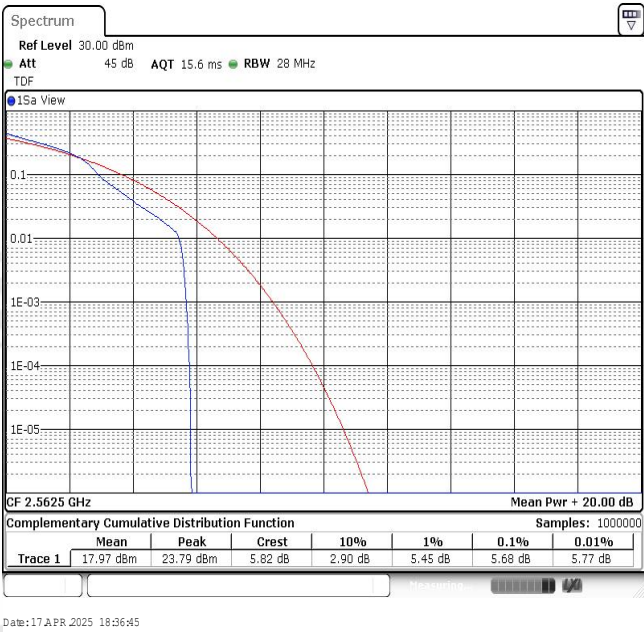
Band7-15MHz-16QAM-20825-75RB#0



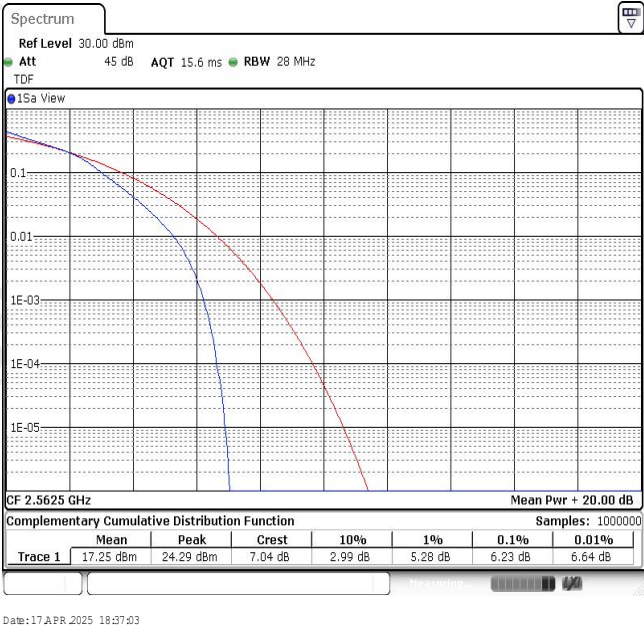
Band7-15MHz-16QAM-21100-1RB#0



Band7-15MHz-16QAM-21100-75RB#0



Band7-15MHz-16QAM-21375-1RB#0



Band7-15MHz-16QAM-21375-75RB#0