

Appendix for Band 5

Product Name: Smart Phone

Model No: X65

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.37	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.41	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.51	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.02	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.28	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.25	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.99	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.23	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.98	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.23	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.36	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.28	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.36	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.53	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.56	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.51	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.69	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.46	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.39	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.65	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.46	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.63	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.59	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.61	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.09	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.66	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.59	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.60	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.61	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.76	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.85	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.58	PASS

Band5	1.4MHz	16QAM	20643	1RB#5	22.27	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.48	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.36	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.51	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.23	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.54	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.43	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.55	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.63	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.39	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.56	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.38	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.56	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.33	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.55	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.52	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.50	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.46	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.48	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.40	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.58	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.83	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.59	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.80	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.58	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.80	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.66	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.73	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.65	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.71	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.67	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.72	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.65	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.64	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.68	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.85	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.65	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.84	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.66	PASS

Band5	3MHz	16QAM	20635	1RB#14	22.82	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.74	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.73	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.74	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.74	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.71	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.76	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.74	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.66	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.32	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.46	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.48	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.42	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.42	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.42	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.39	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.37	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.38	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.42	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.47	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.47	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.52	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.57	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.64	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.71	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.71	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.57	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.66	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.73	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.64	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.72	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.66	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.70	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.69	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.72	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.73	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.69	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.89	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.78	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.99	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.63	PASS

Band5	5MHz	16QAM	20625	1RB#24	22.87	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.76	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.77	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.77	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.78	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.70	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.69	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.74	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.75	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.41	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.66	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.64	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.76	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.52	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.58	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.49	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.50	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.50	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.52	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.61	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.56	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.48	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.47	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.51	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.72	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.58	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.92	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.59	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.70	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.76	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.79	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.74	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.74	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.75	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.76	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.73	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.72	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.64	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.74	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.78	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.90	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.63	PASS

Band5	10MHz	16QAM	20600	1RB#49	22.46	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.78	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.84	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.81	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.85	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.75	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.82	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.76	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.82	PASS

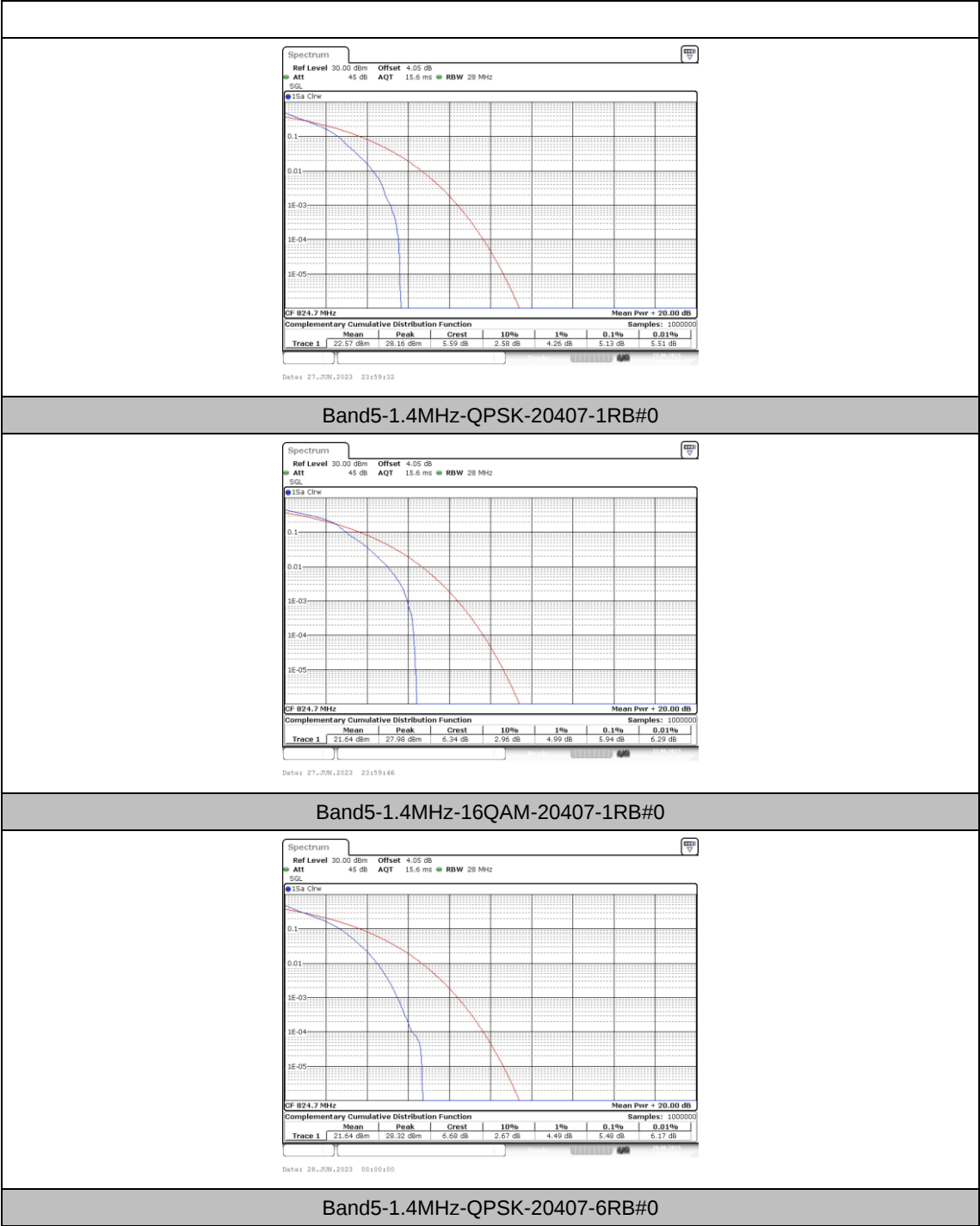
Appendix B: Peak-to-Average Ratio(CCDF)

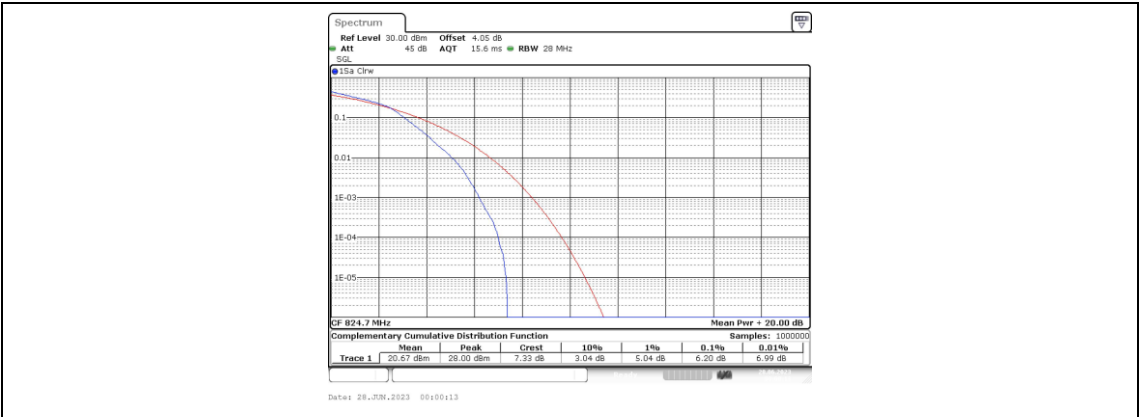
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	5.13	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.94	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.48	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.20	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	5.01	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.80	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.28	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.00	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.23	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.04	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.99	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.83	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	5.04	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.80	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.45	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.26	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.93	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.77	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.36	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.17	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.32	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.04	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.01	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.91	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.28	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.80	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.45	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.17	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.28	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.80	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.45	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.14	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.61	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.28	13	PASS

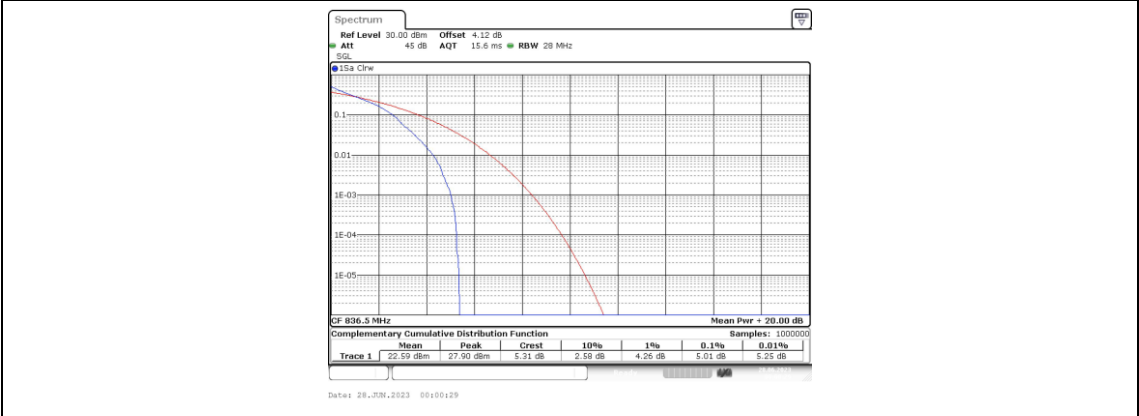
Band5	5MHz	QPSK	20625	25RB#0	5.13	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.91	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	5.10	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	6.00	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.51	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.26	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.01	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.86	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.42	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.17	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.55	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.30	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.16	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.00	13	PASS

Test Graphs

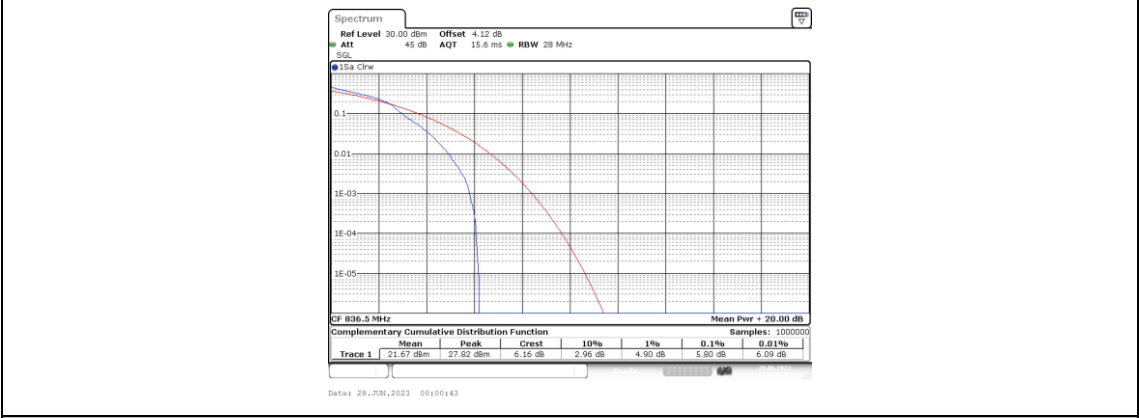




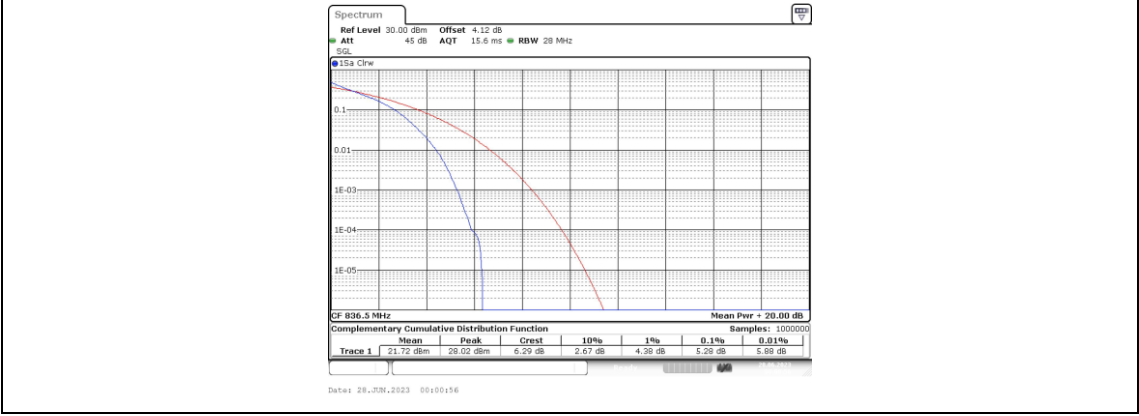
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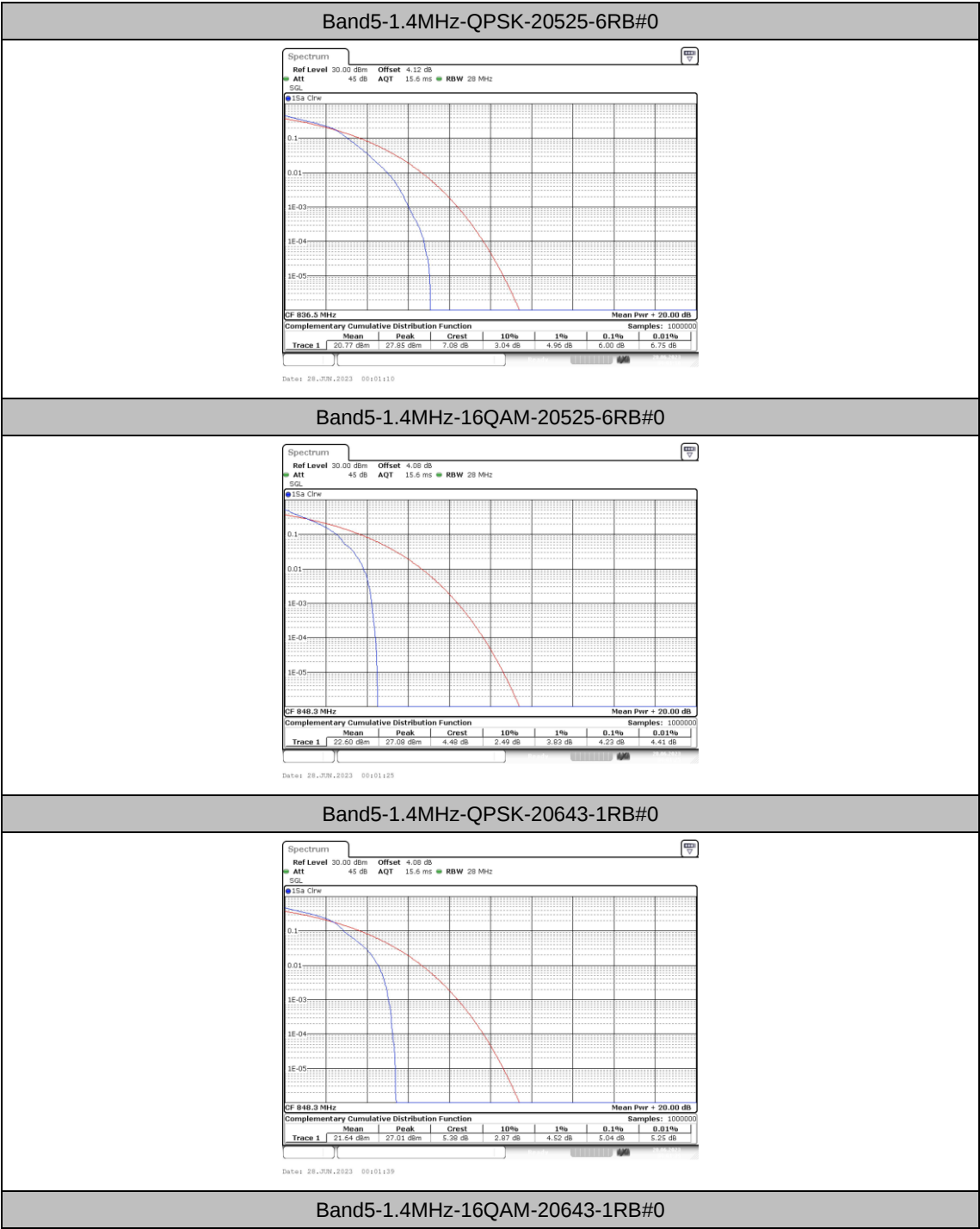


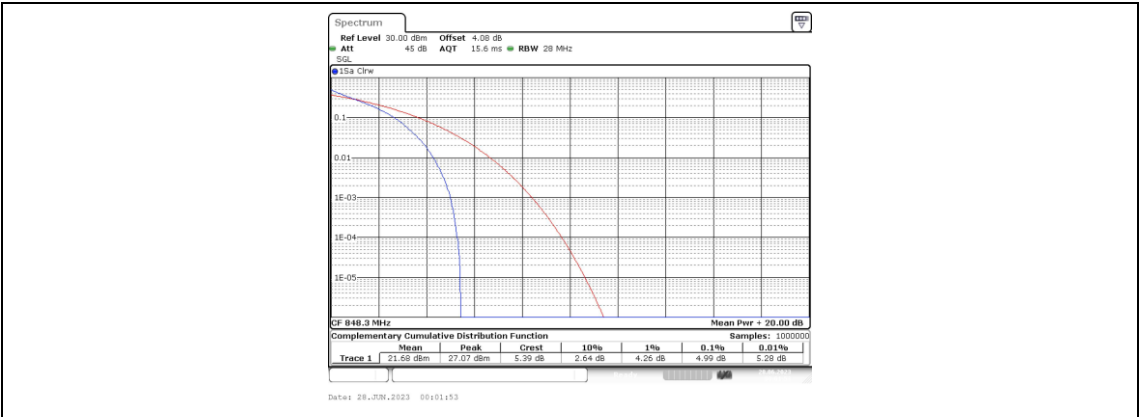
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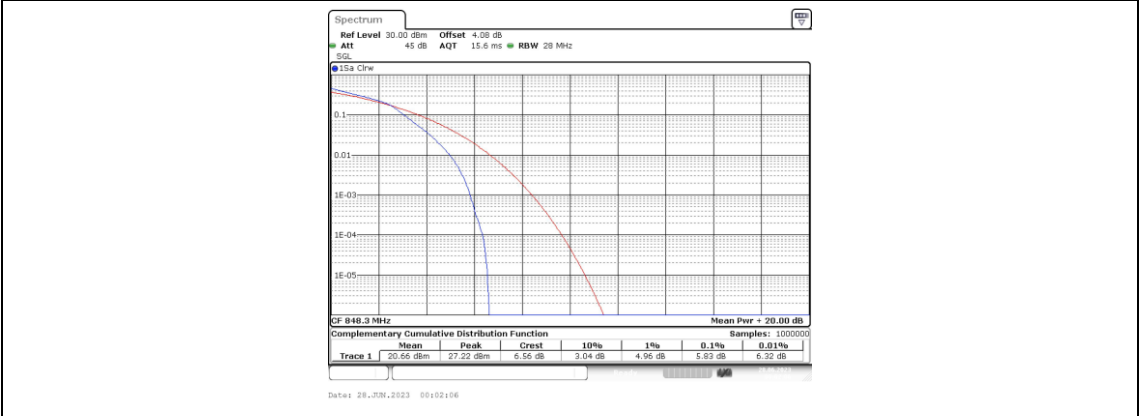
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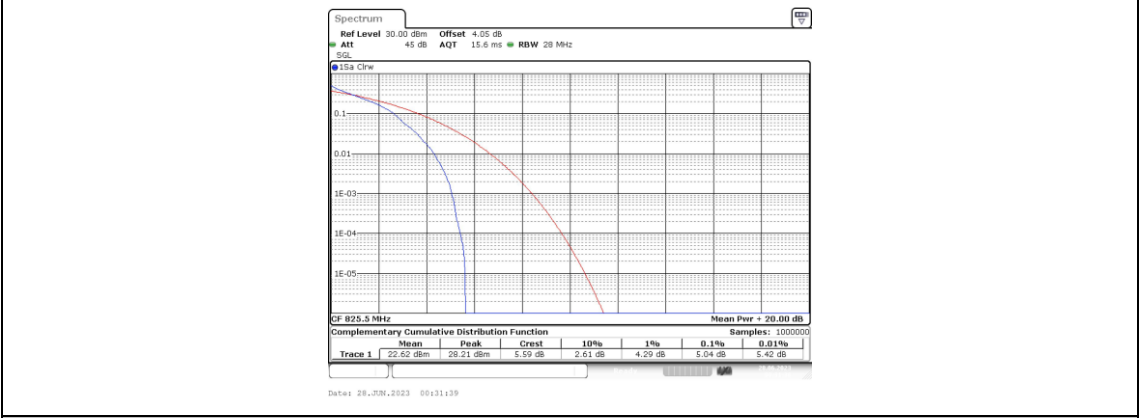




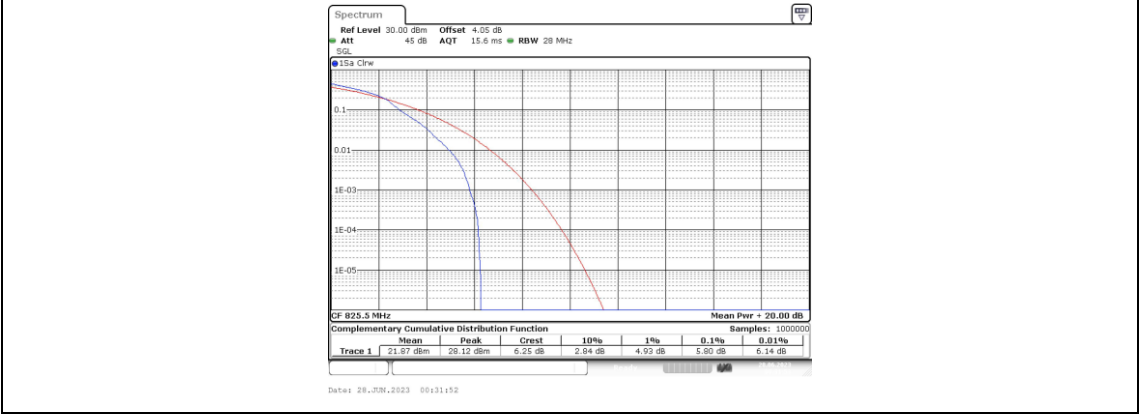
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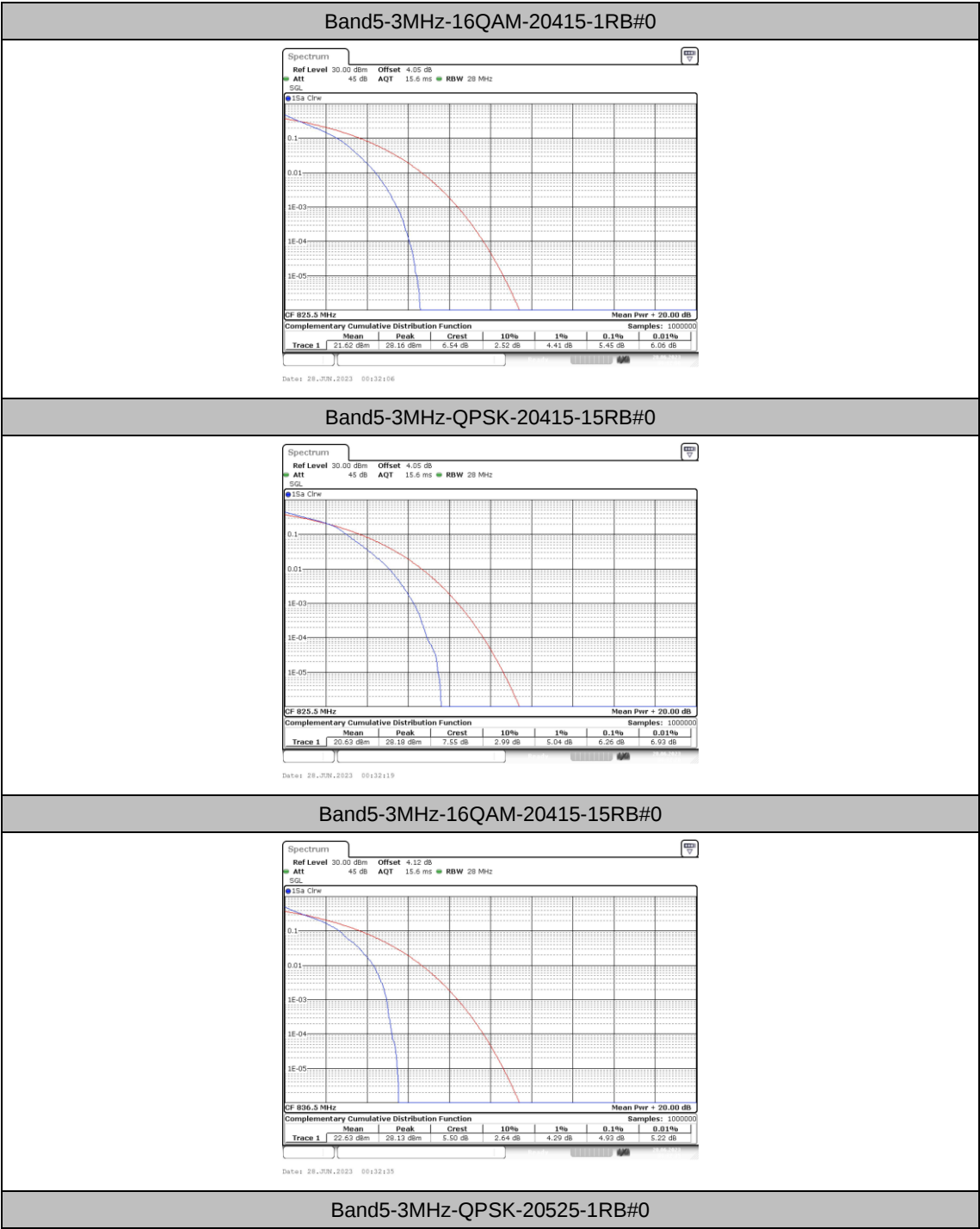


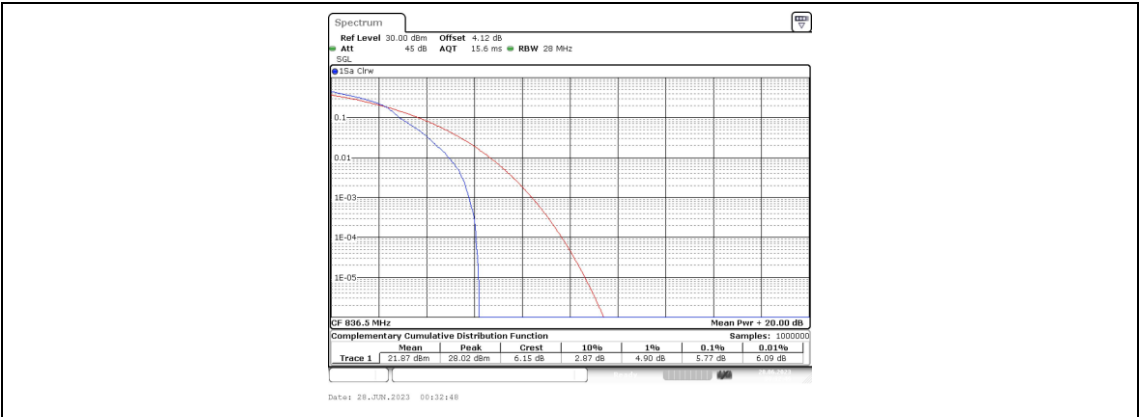
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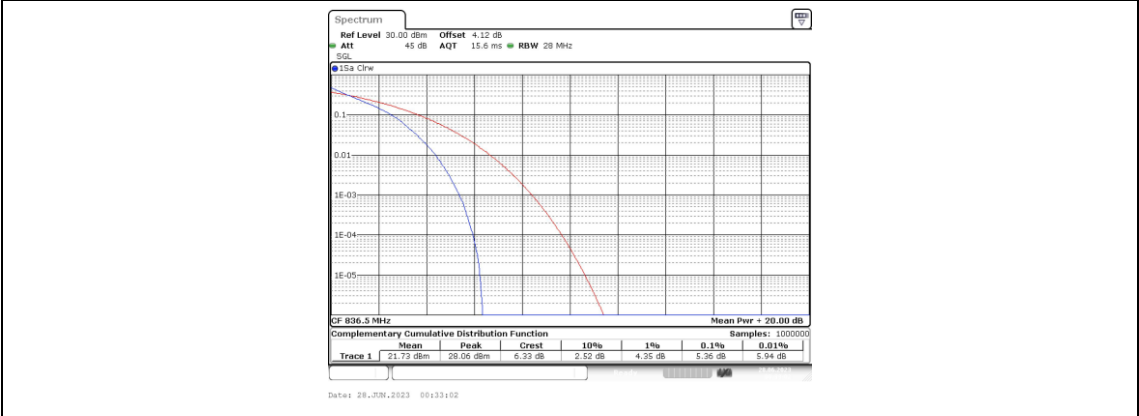
Band5-3MHz-QPSK-20415-1RB#0



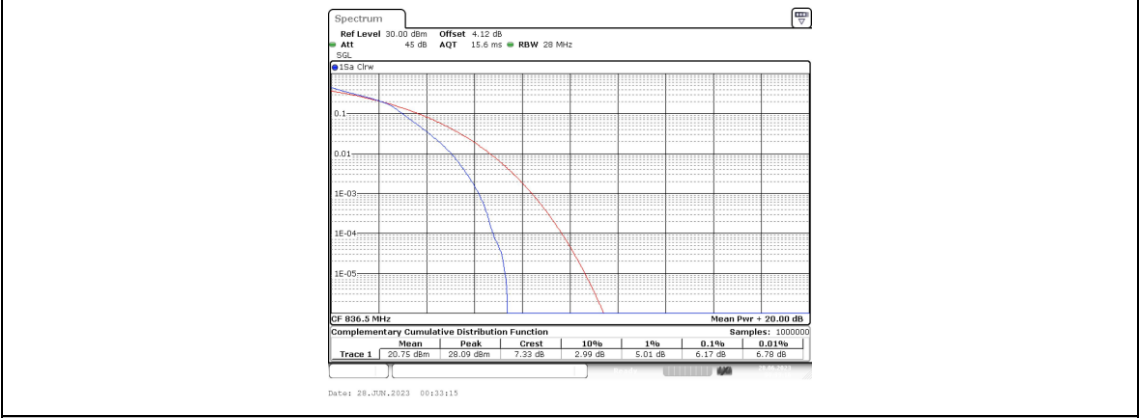




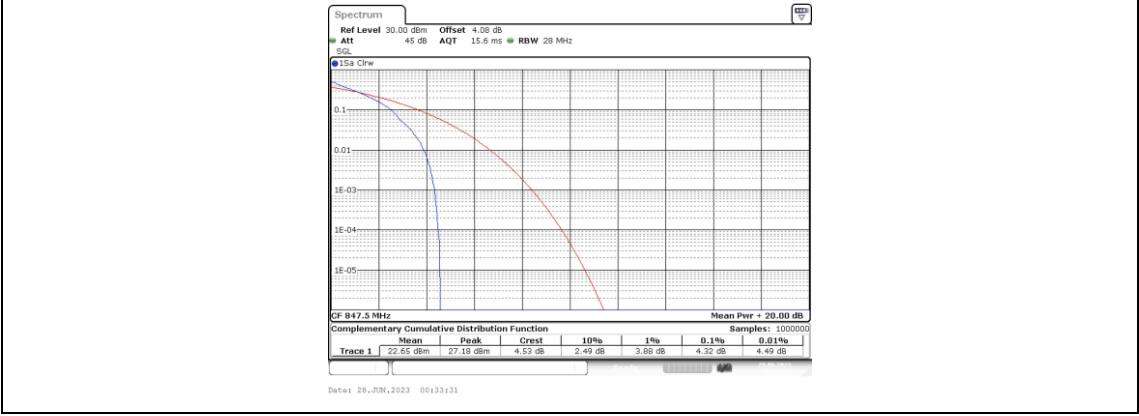
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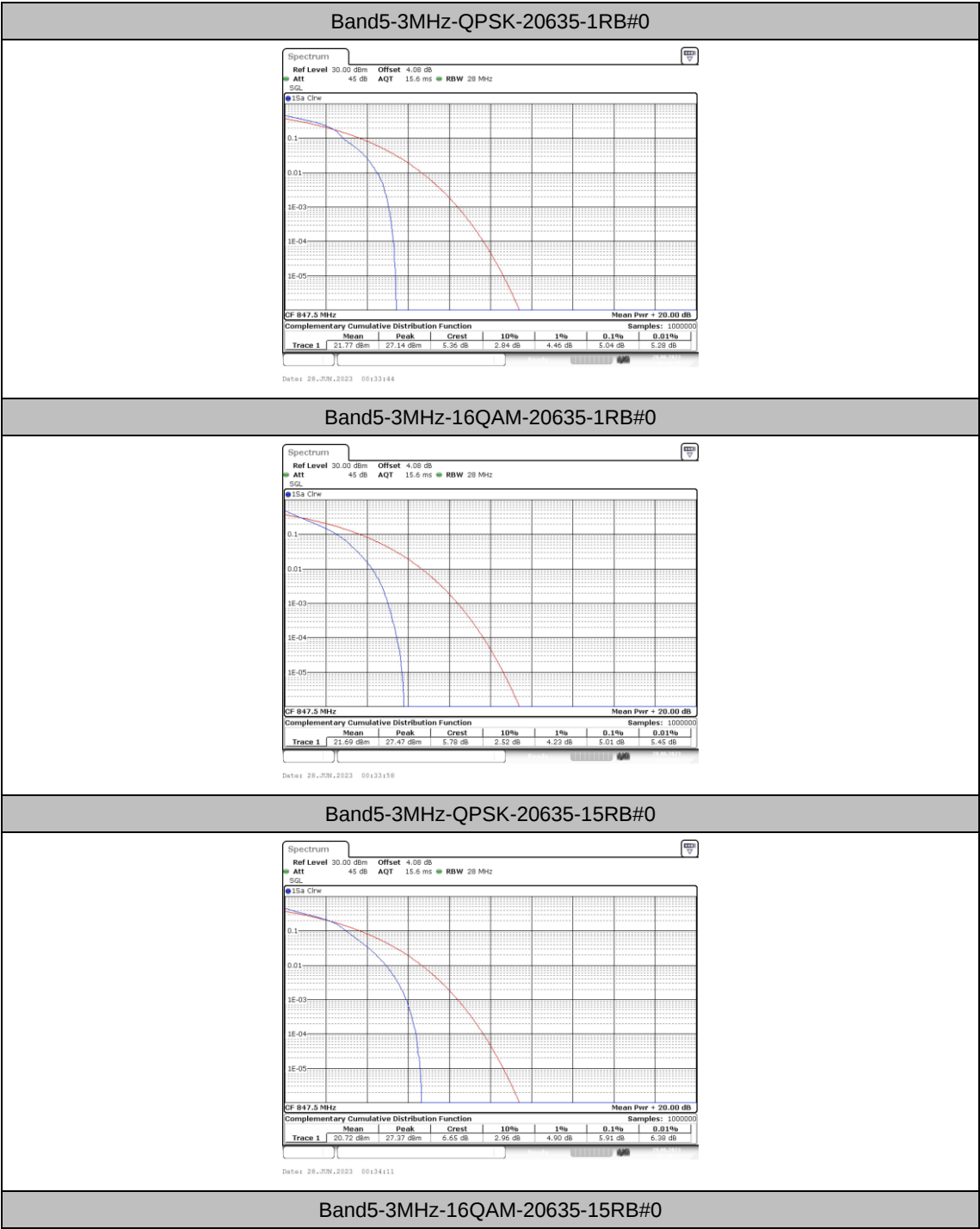


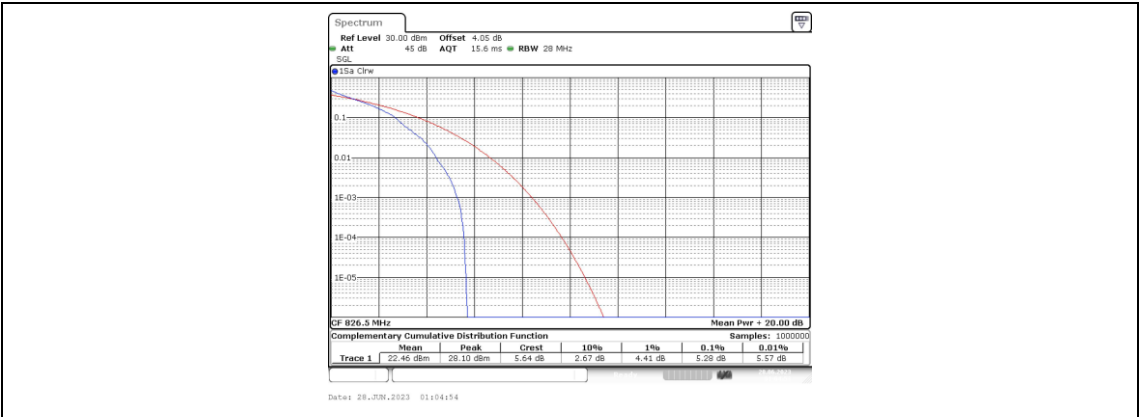
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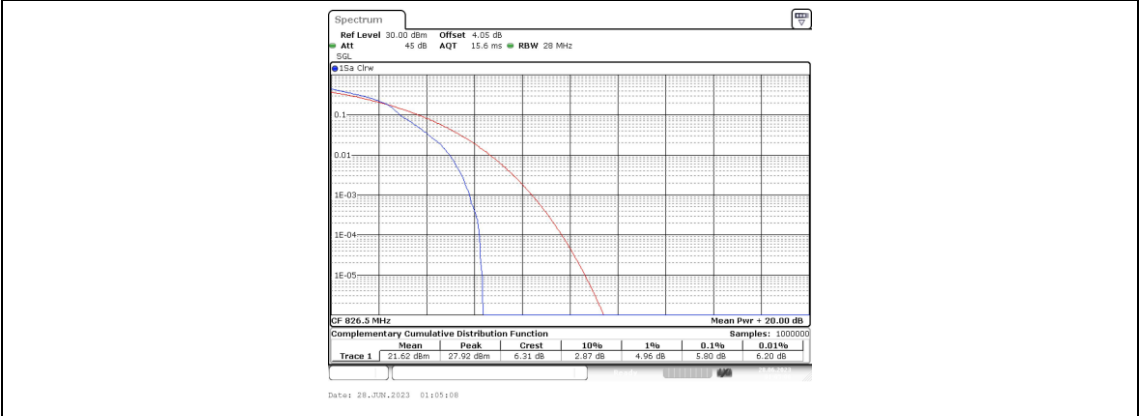
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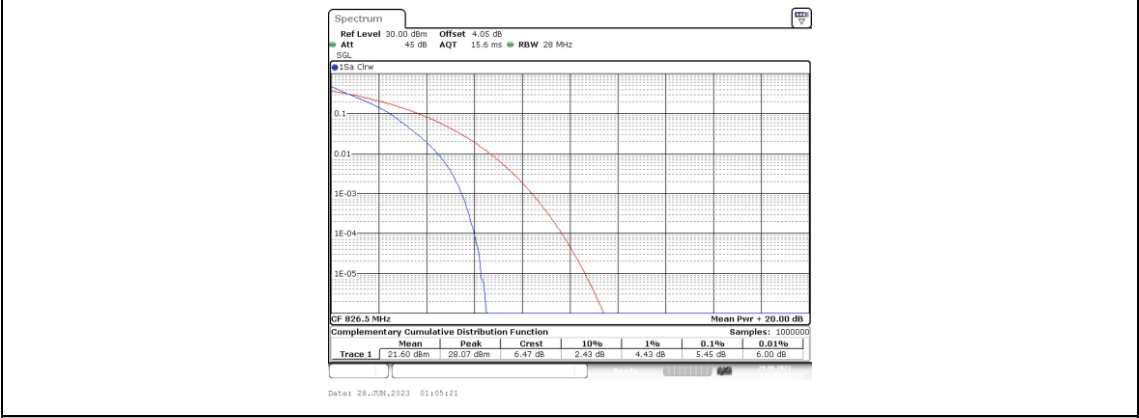




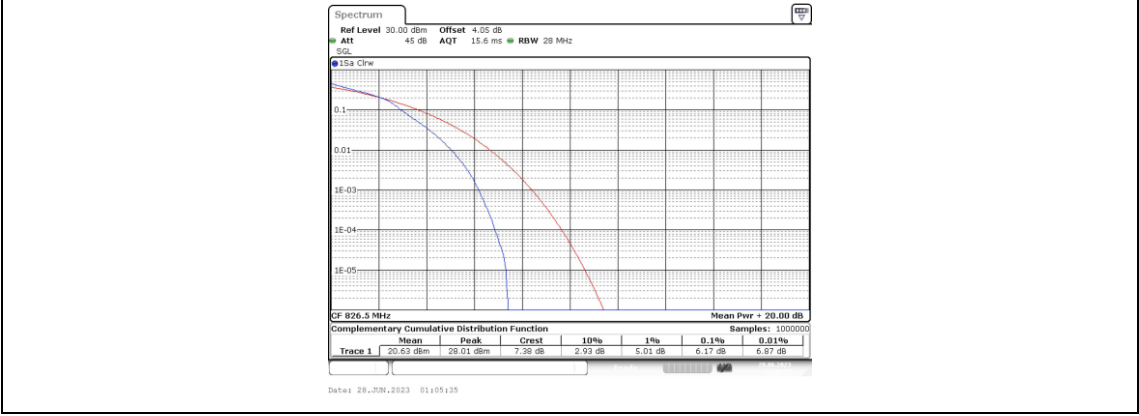
Band5-5MHz-QPSK-20425-1RB#0

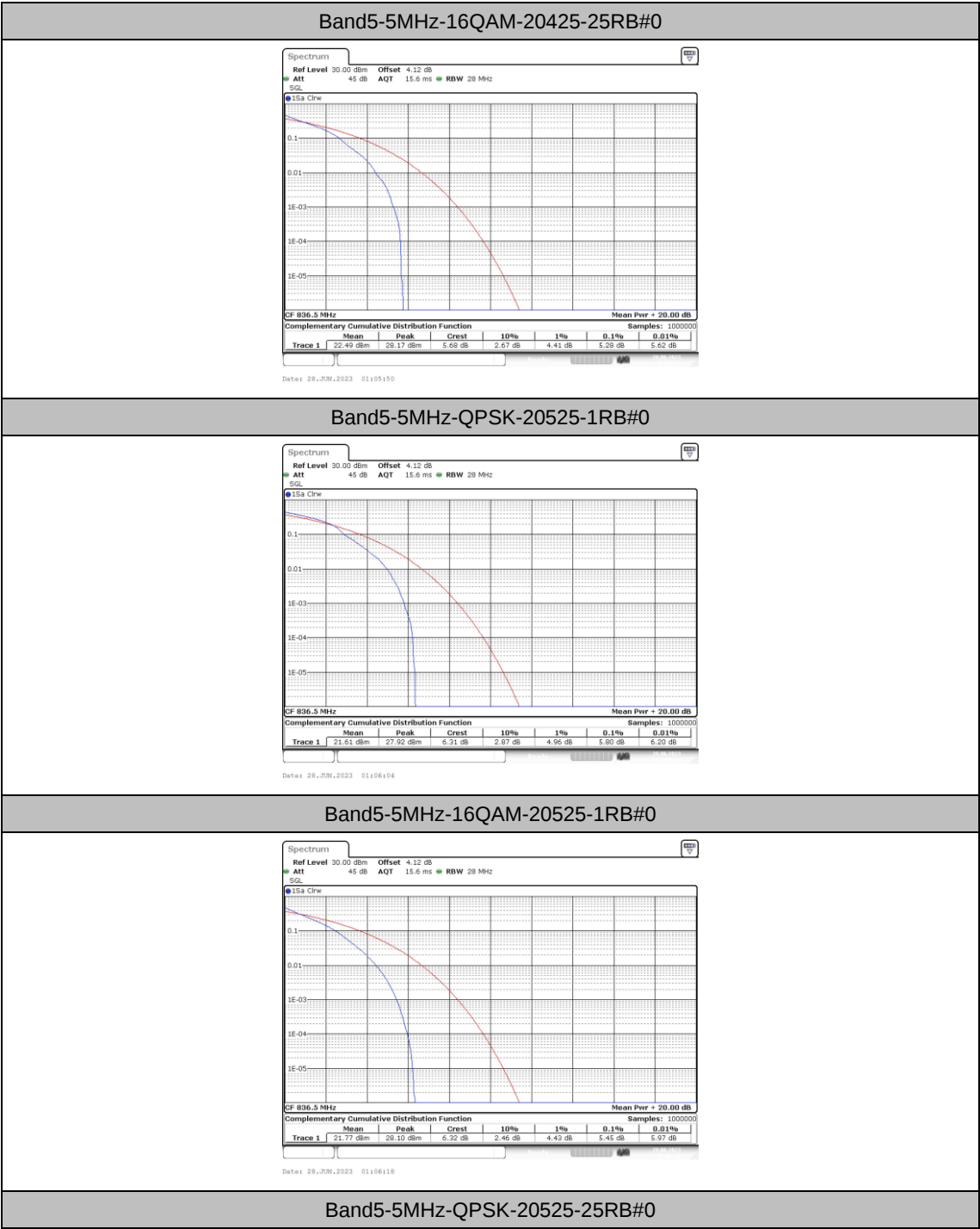


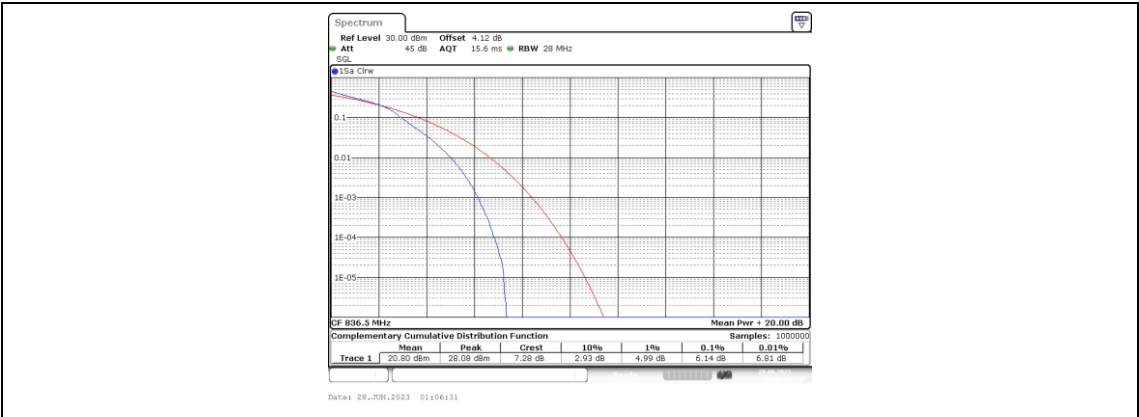
Band5-5MHz-16QAM-20425-1RB#0



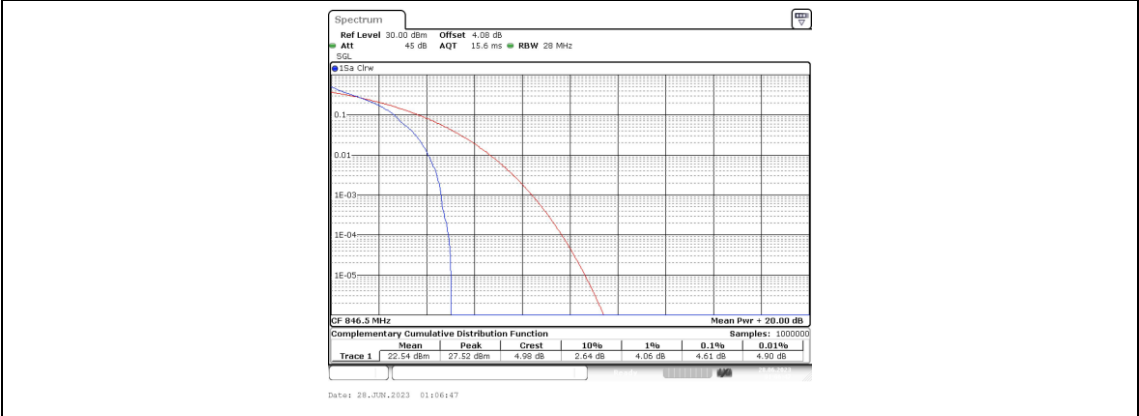
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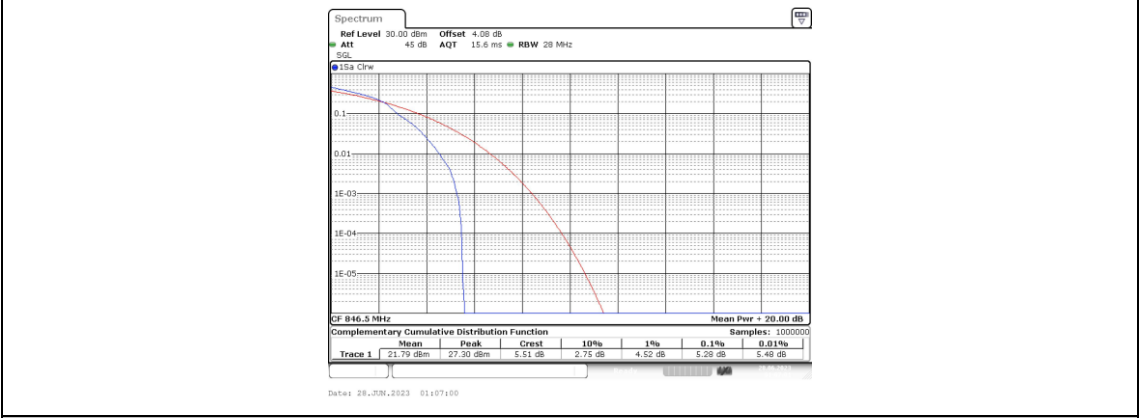




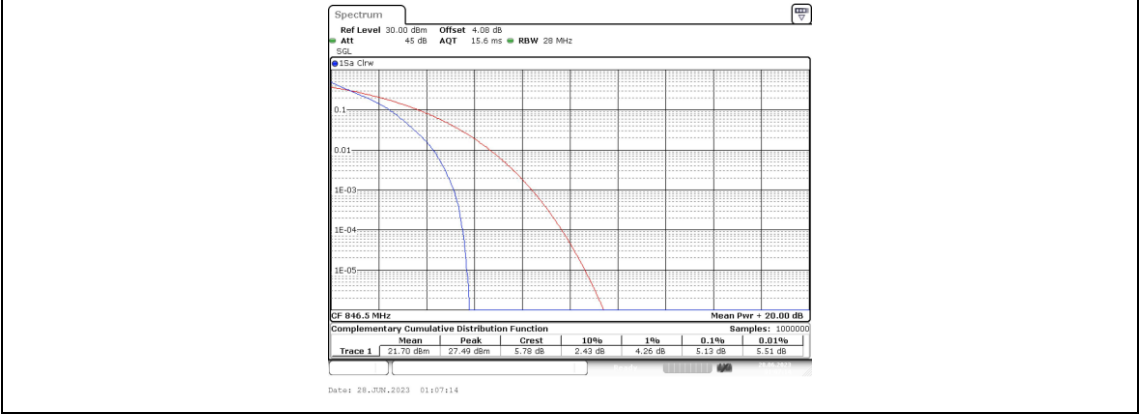
Band5-5MHz-16QAM-20525-25RB#0

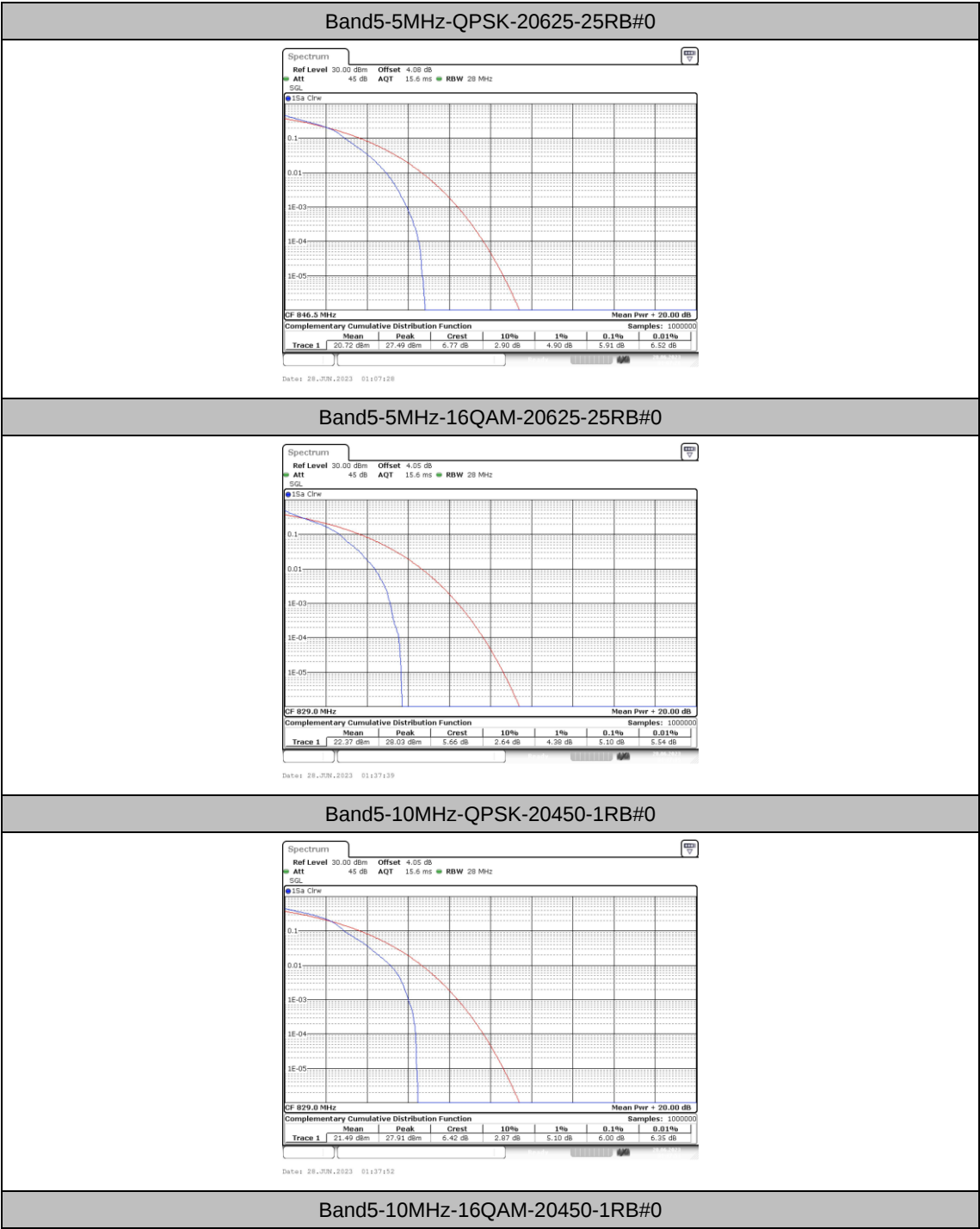


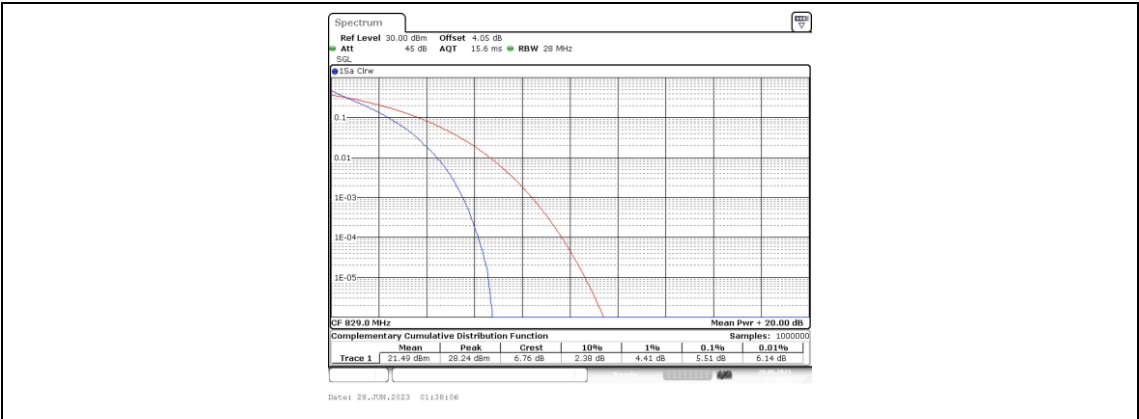
Band5-5MHz-QPSK-20625-1RB#0



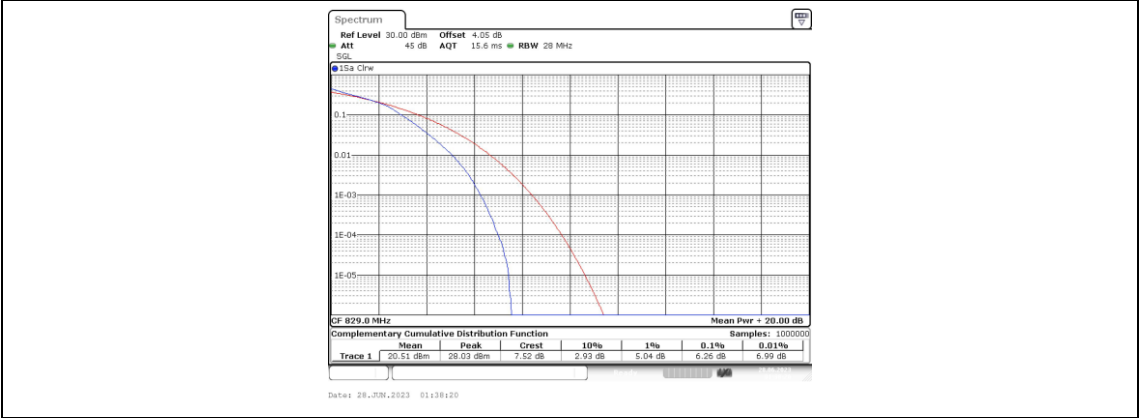
Band5-5MHz-16QAM-20625-1RB#0



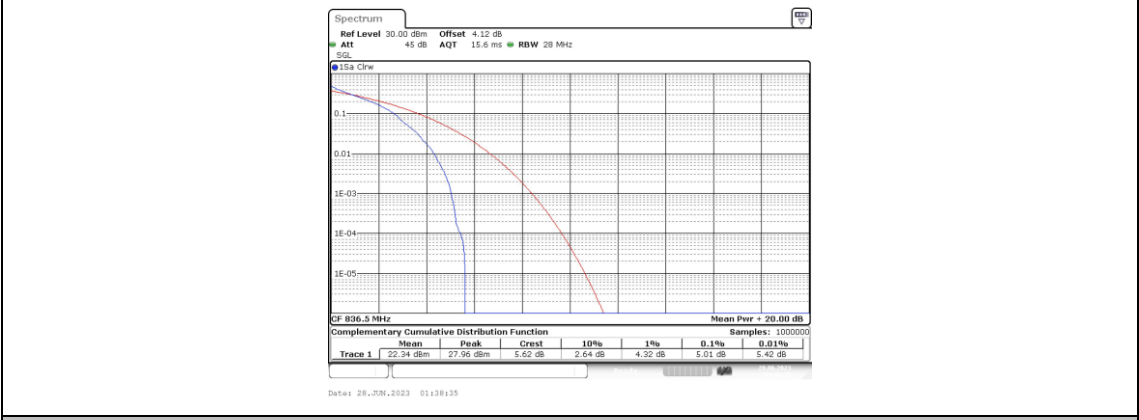




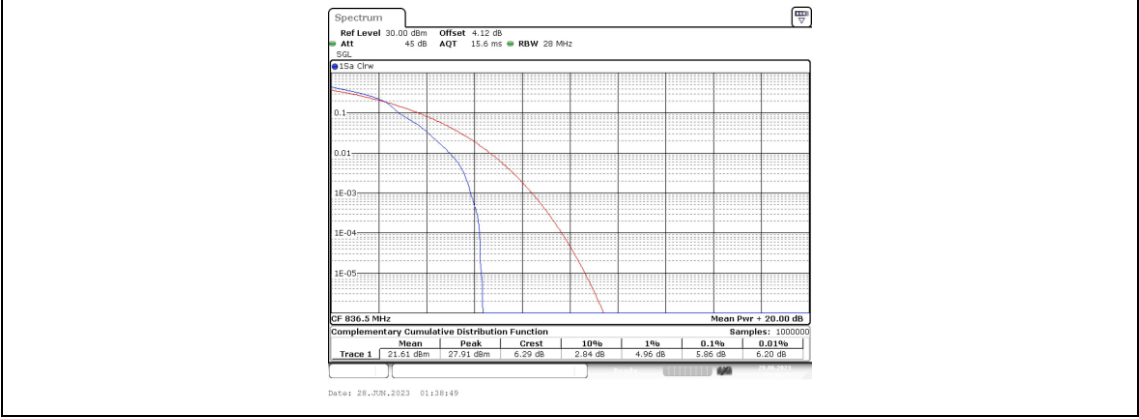
Band5-10MHz-QPSK-20450-50RB#0

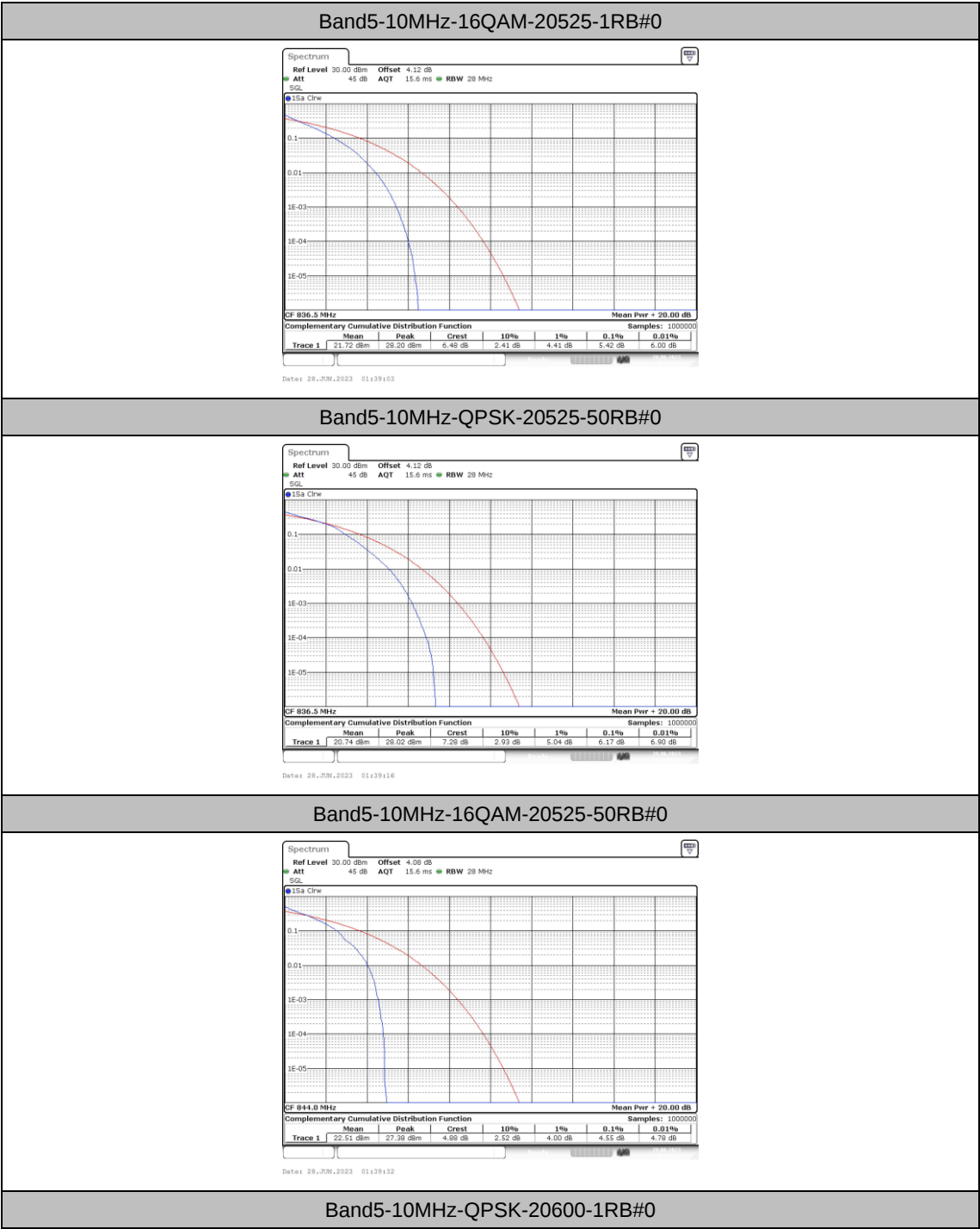


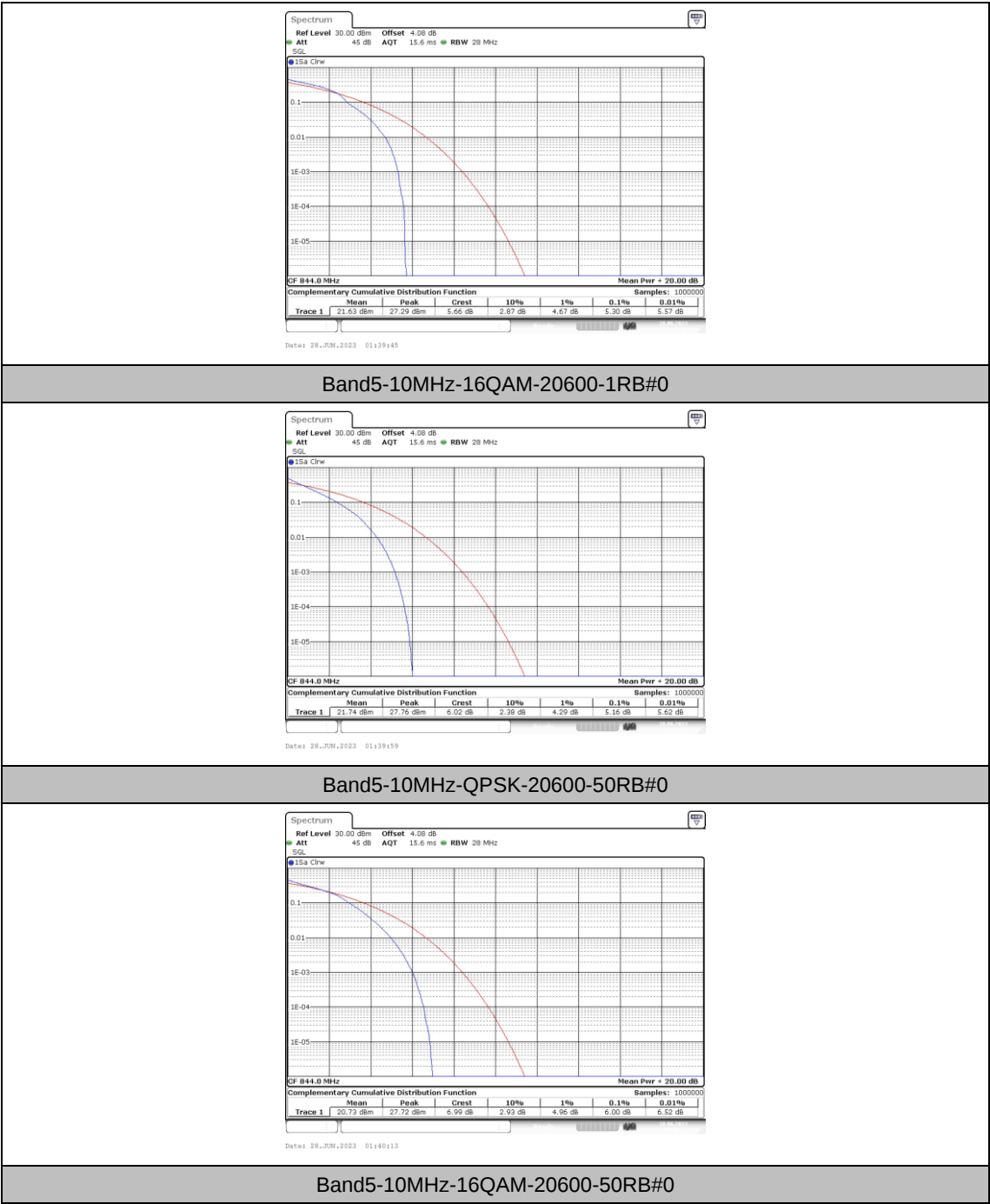
Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-QPSK-20525-1RB#0





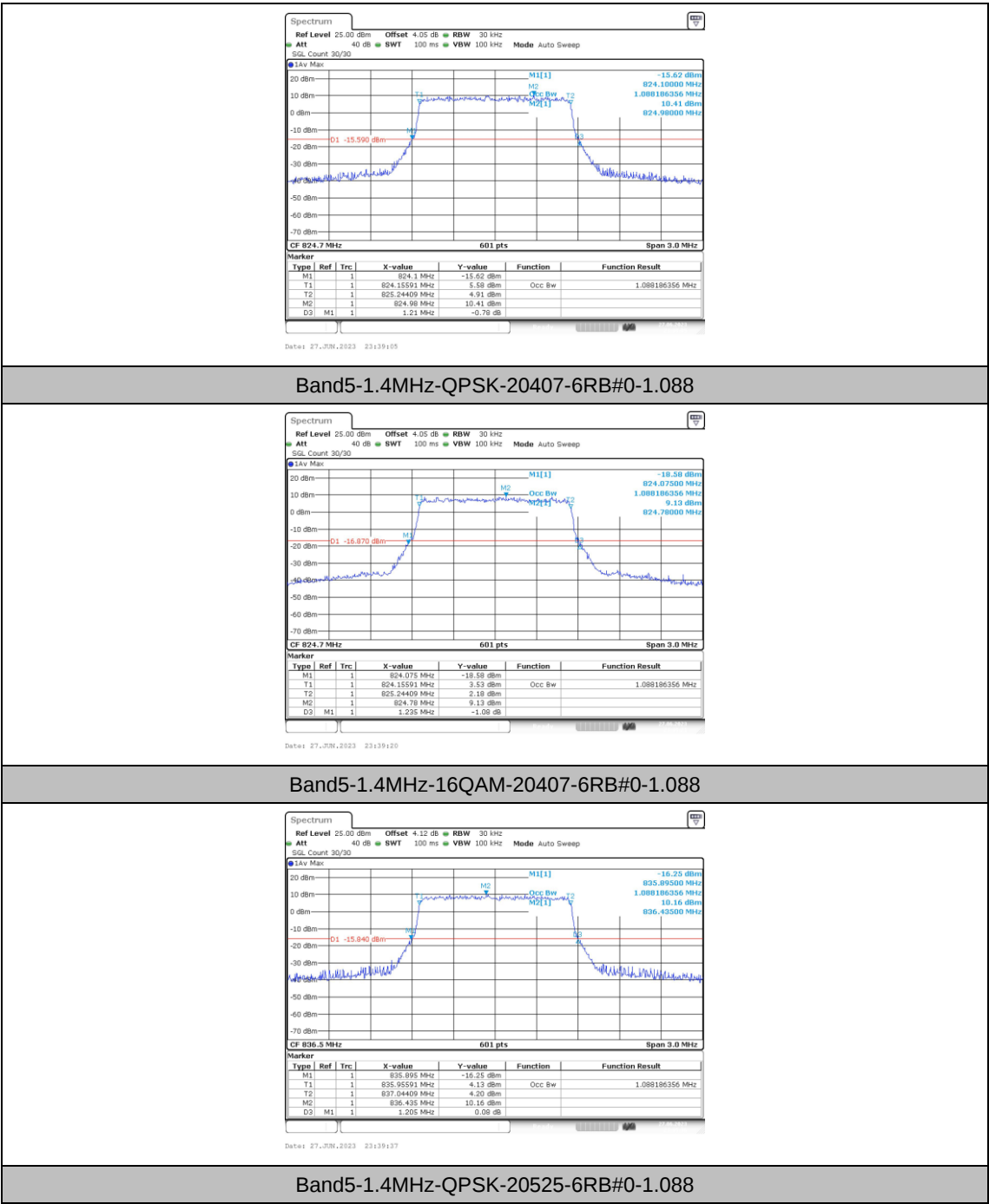


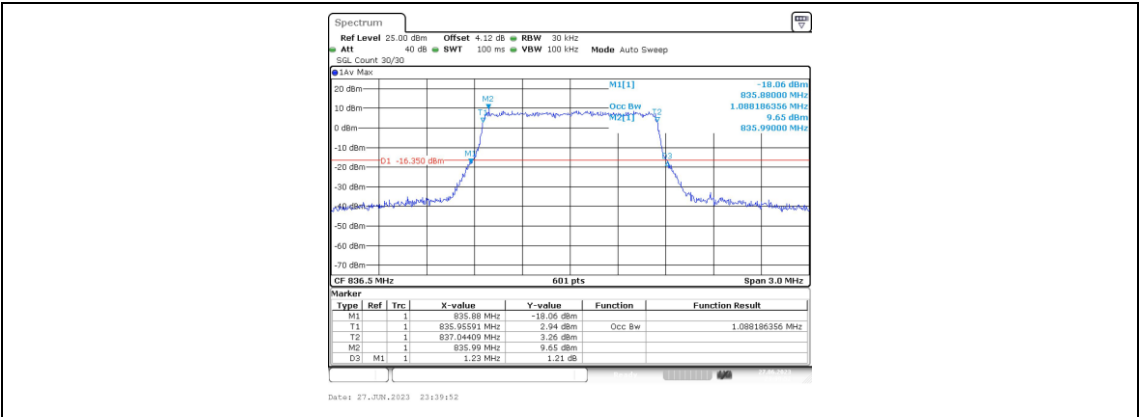
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

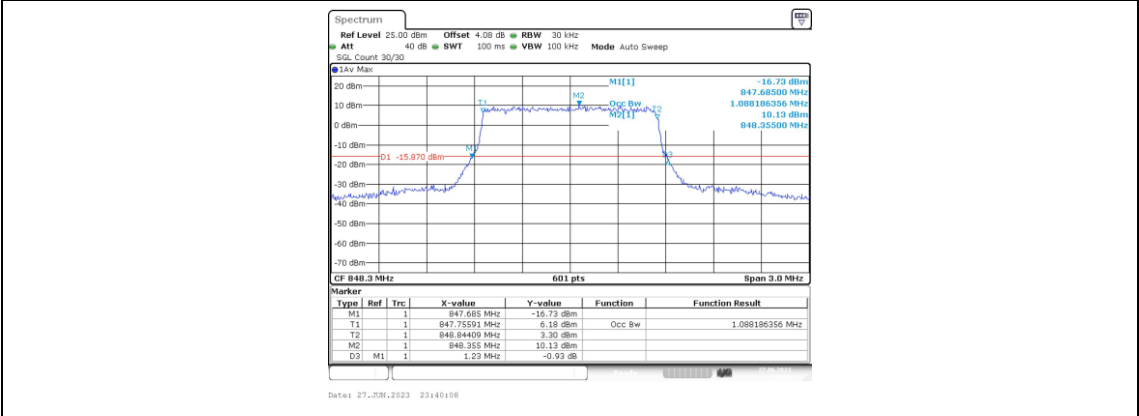
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.088	1.21	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.088	1.24	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.21	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.23	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.088	1.23	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.088	1.23	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.686	2.84	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.686	2.84	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.686	2.84	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.686	2.84	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.696	2.86	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.686	2.84	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.496	4.78	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.505	4.77	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.496	4.79	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.505	4.76	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.505	4.77	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.496	4.77	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.985	9.53	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.985	9.53	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.985	9.53	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.985	9.53	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.985	9.53	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.985	9.53	PASS

Test Graphs

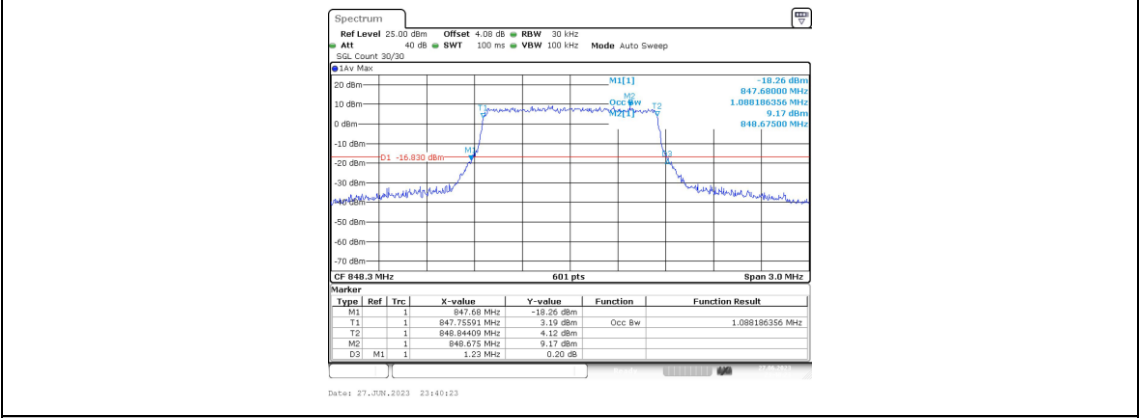




Band5-1.4MHz-16QAM-20525-6RB#0-1.088



Band5-1.4MHz-QPSK-20643-6RB#0-1.088



Band5-1.4MHz-16QAM-20643-6RB#0-1.088

