

Appendix for LTE Band 12

Product Name: Rugged Android Tablet

Model No: UA80

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.45	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.55	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.43	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.61	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.42	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.46	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.40	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.30	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.39	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.28	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.33	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.28	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.36	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.31	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.45	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.49	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.46	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.69	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.46	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.54	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.40	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.33	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.45	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.37	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.42	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.33	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.44	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.30	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.59	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.47	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.76	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.41	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.66	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.44	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.53	PASS

Band12	1.4MHz	16QAM	23173	3RB#0	21.35	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.54	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.48	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.63	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.36	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.45	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.53	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.42	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.60	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.51	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.70	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.44	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.54	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.48	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.51	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.44	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.53	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.49	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.61	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.42	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.48	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.45	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.55	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.47	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.66	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.58	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.64	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.50	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.50	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.48	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.51	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.43	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.48	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.53	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.46	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.72	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.58	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.78	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.59	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.60	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.44	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.68	PASS

Band12	3MHz	16QAM	23165	8RB#0	20.74	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.70	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.75	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.61	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.65	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.63	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.52	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.63	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.58	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.52	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.53	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.58	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.59	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.45	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.46	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.44	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.45	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.39	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.45	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.47	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.50	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.58	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.70	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.57	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.76	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.61	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.82	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.48	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.52	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.43	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.47	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.50	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.60	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.49	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.47	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.78	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.80	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.69	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.66	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.66	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.72	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.64	PASS

Band12	5MHz	16QAM	23155	12RB#0	20.73	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.66	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.72	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.71	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.69	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.69	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.78	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.59	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.76	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.44	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.63	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.94	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.46	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.47	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.46	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.48	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.58	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.55	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.60	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.57	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.57	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.74	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.54	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.69	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.87	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.97	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.51	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.52	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.50	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.52	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.63	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.71	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.58	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.62	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.75	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.61	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.66	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.59	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.65	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.81	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.56	PASS

Band12	10MHz	16QAM	23130	25RB#0	20.64	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.61	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.65	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.80	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.81	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.72	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.68	PASS

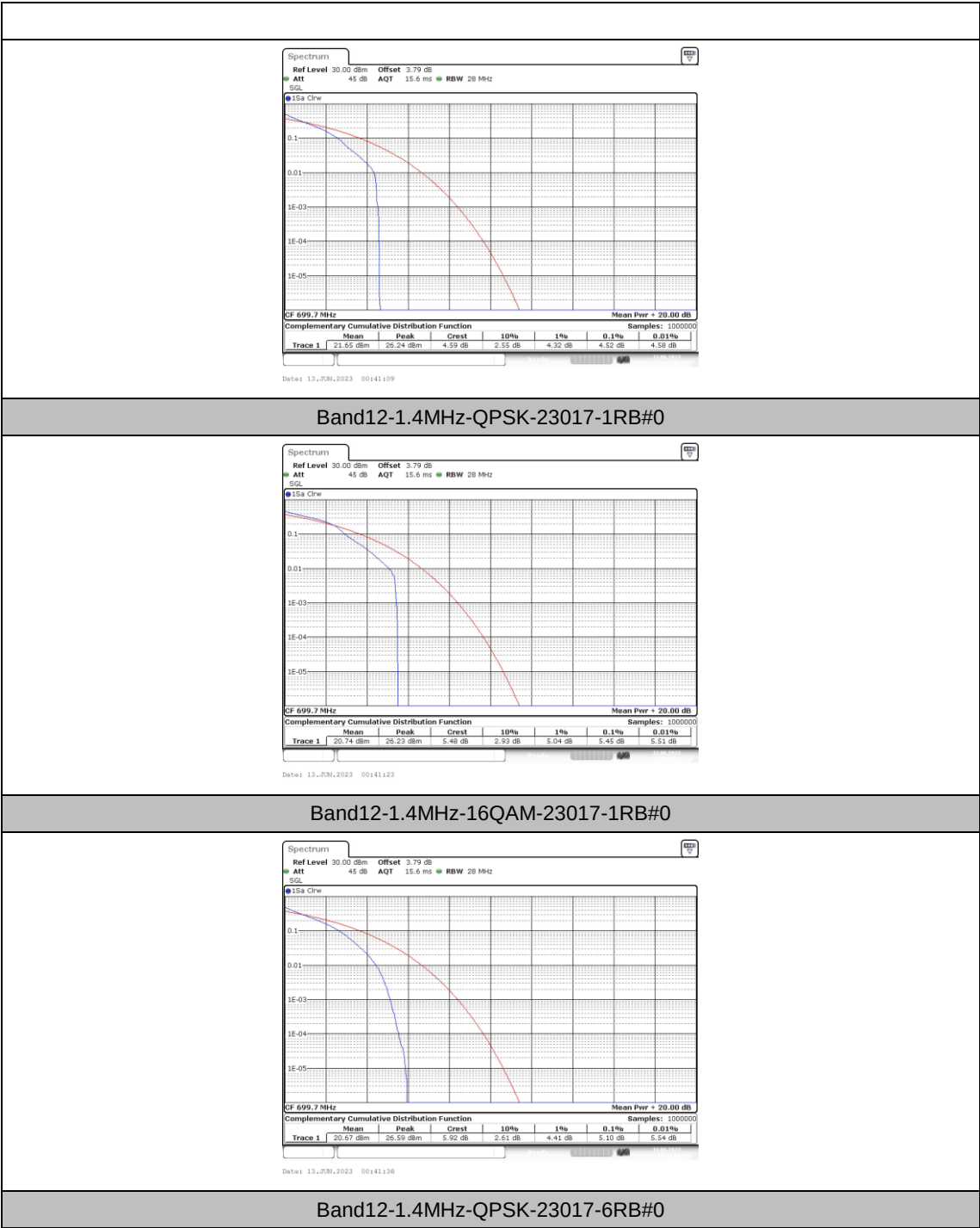
Appendix B: Peak-to-Average Ratio(CCDF)

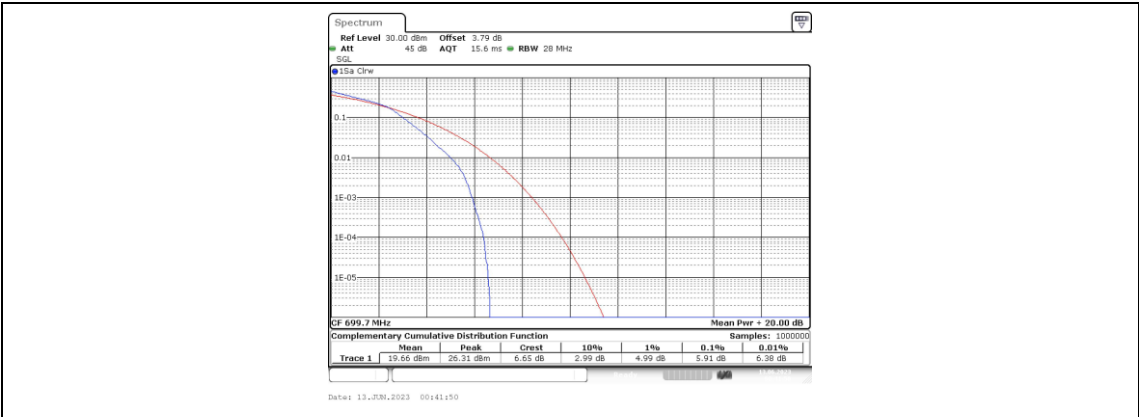
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.52	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.45	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.10	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.91	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.52	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.45	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.10	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.88	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.49	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.45	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.04	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.88	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.55	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.33	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.19	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.00	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.58	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.45	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.16	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.00	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.72	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.42	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.13	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.97	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.49	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.33	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.16	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.91	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.55	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.30	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.10	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.91	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.49	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.33	13	PASS

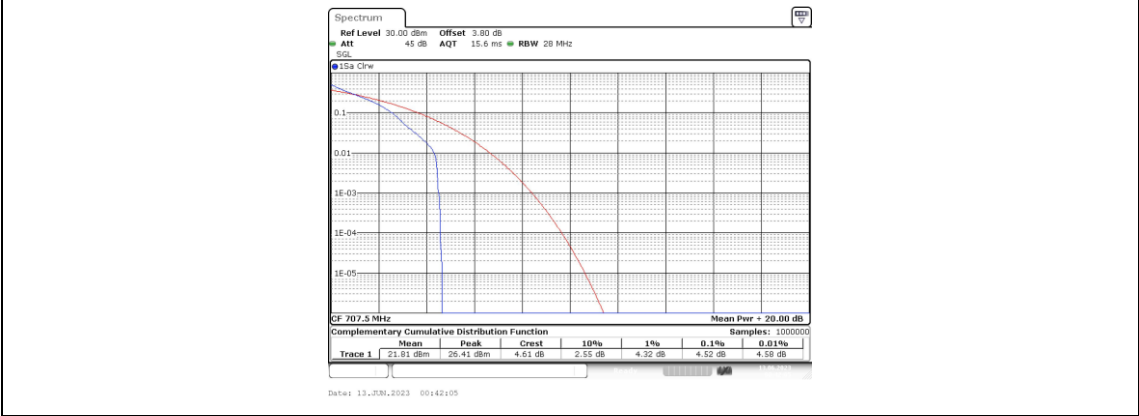
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Band12	5MHz	16QAM	23155	25RB#0	5.88	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.43	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.25	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.10	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.88	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.52	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.36	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.96	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.83	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.43	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.22	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.04	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.88	13	PASS

Test Graphs

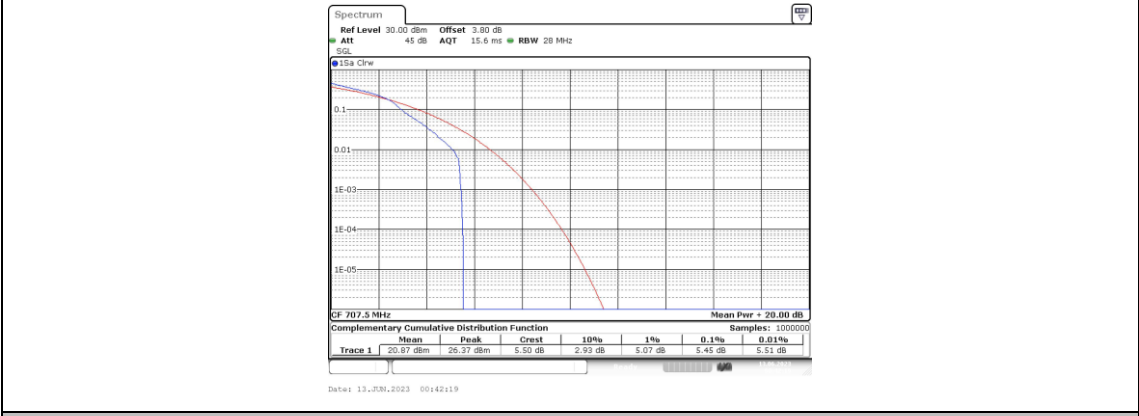




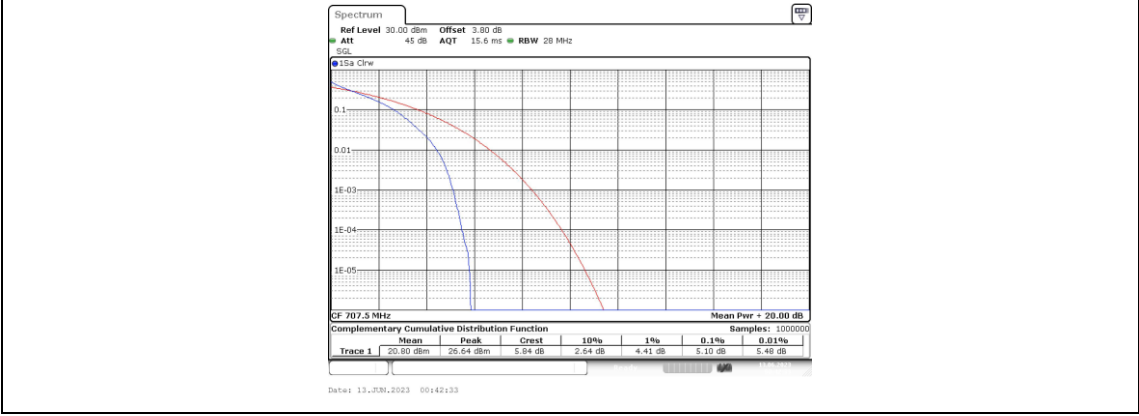
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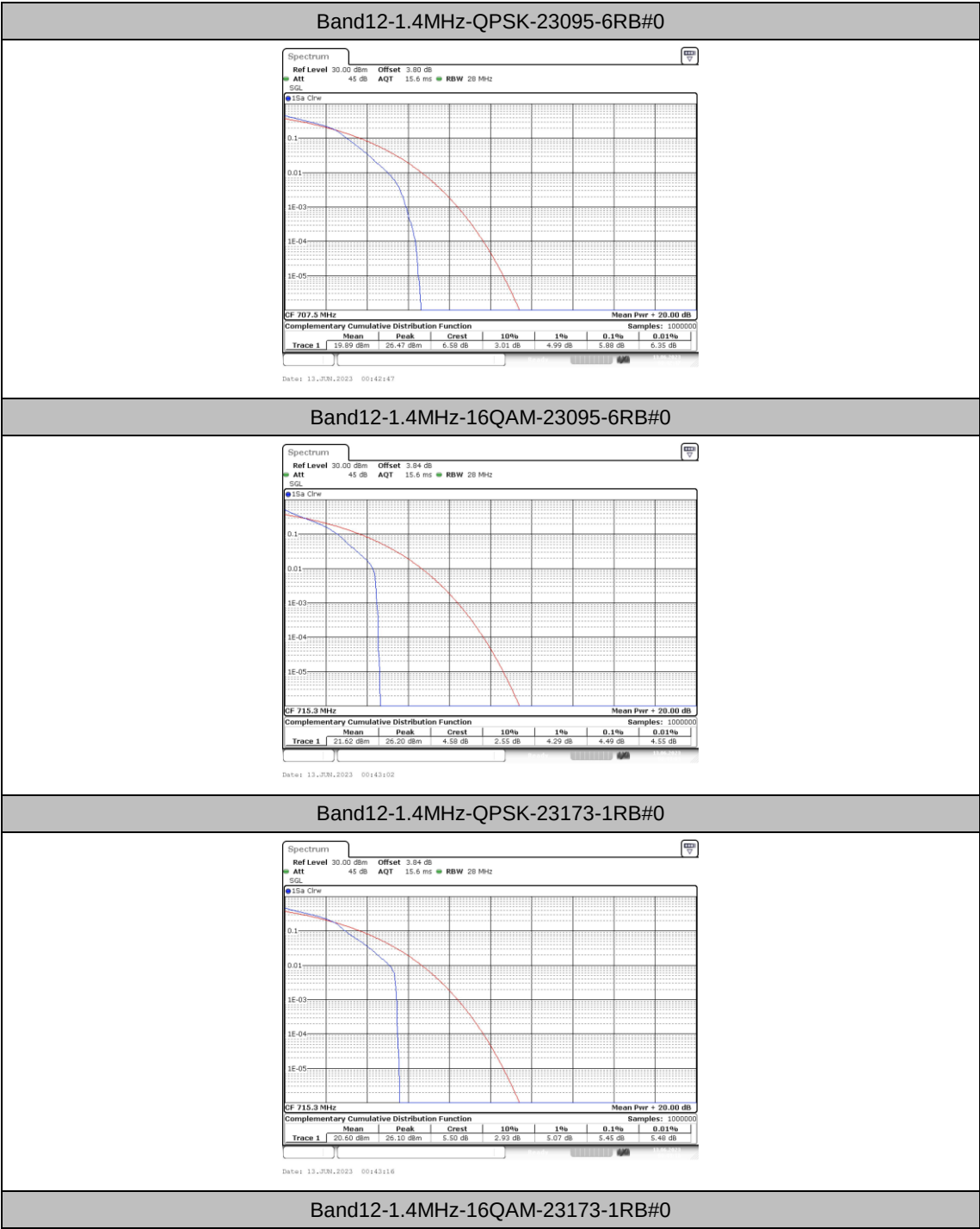


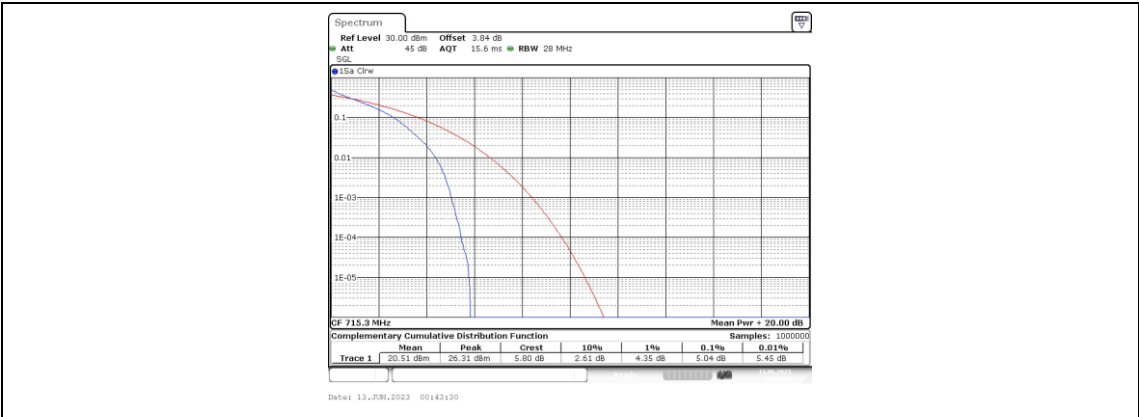
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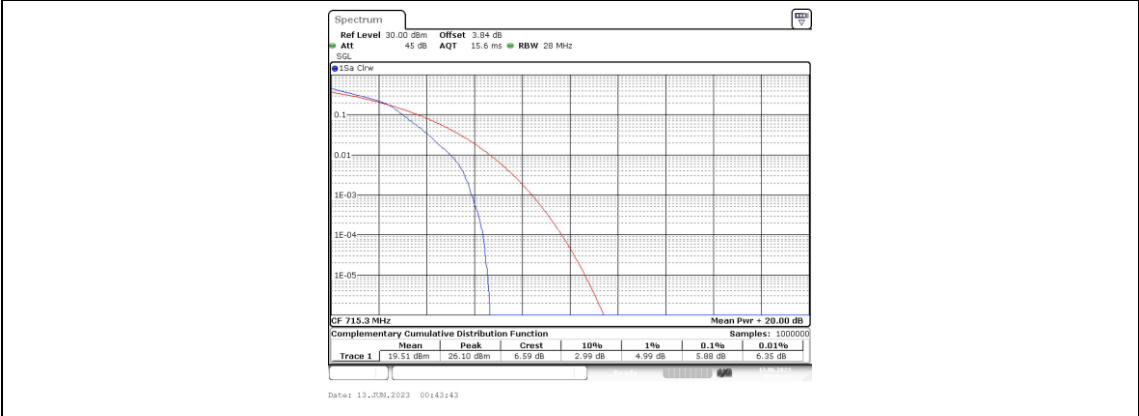
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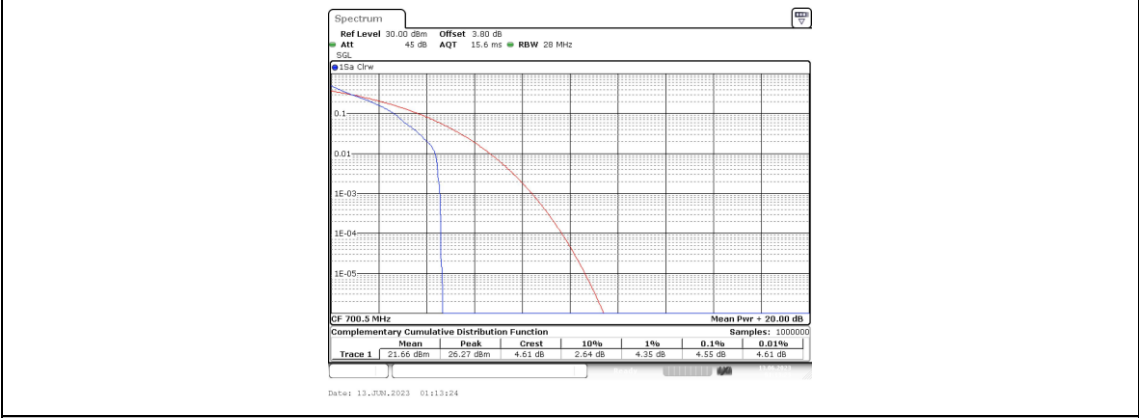




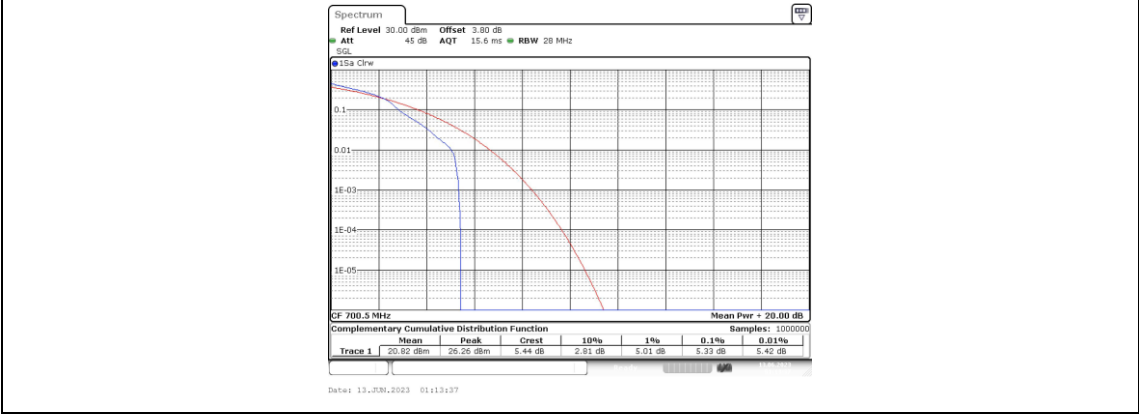
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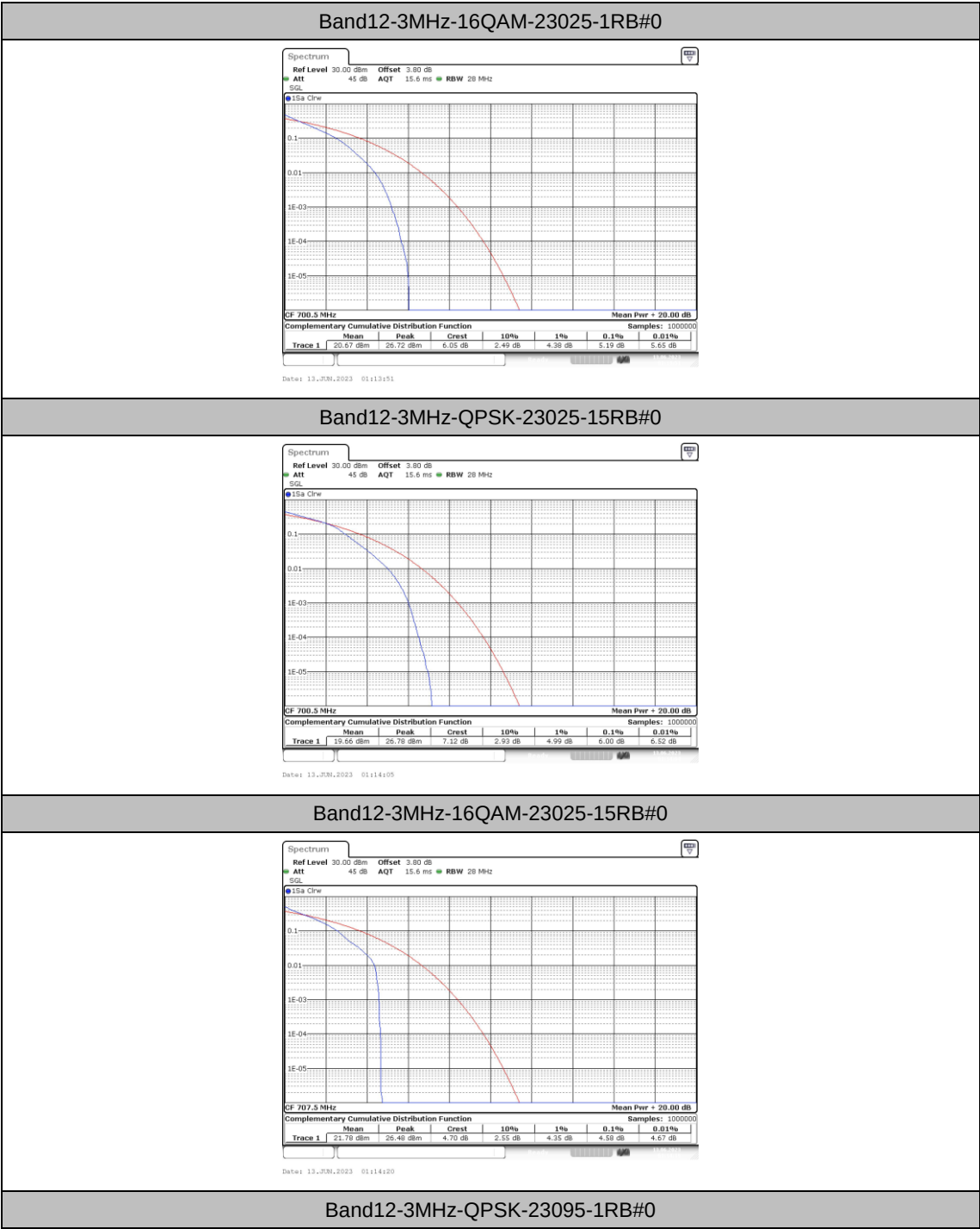


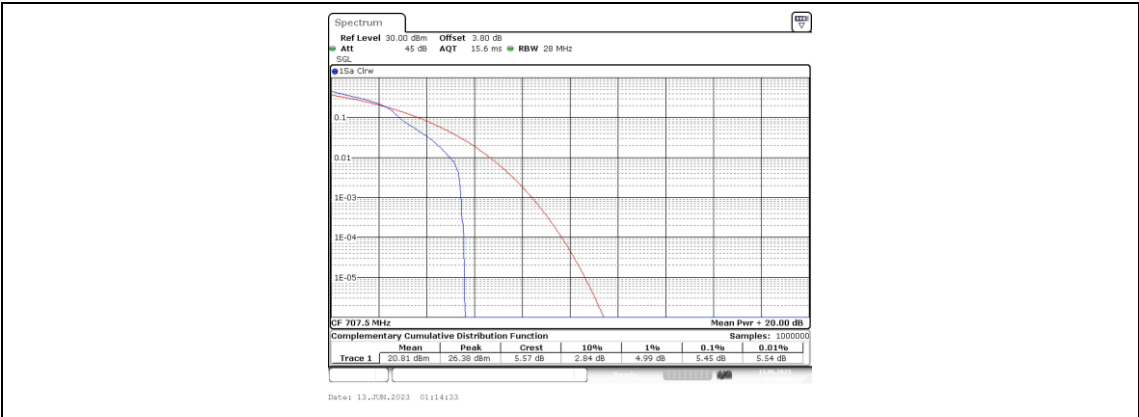
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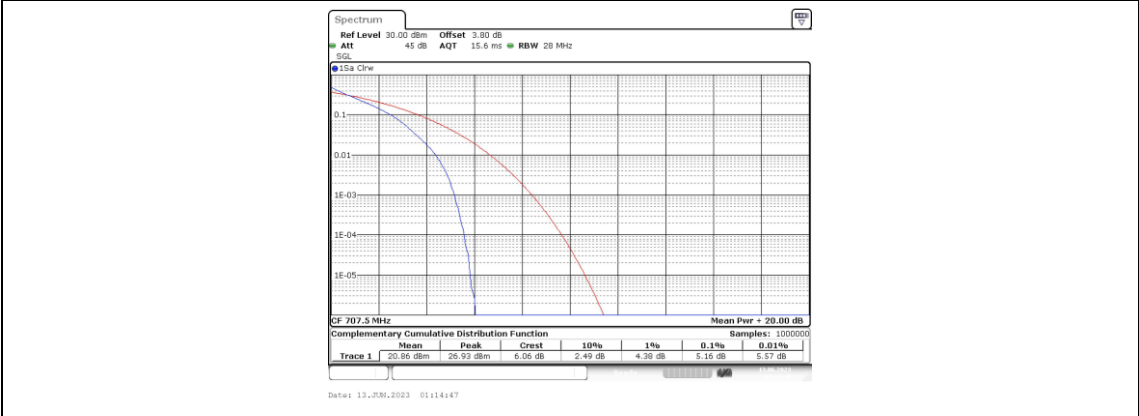
Band12-3MHz-QPSK-23025-1RB#0



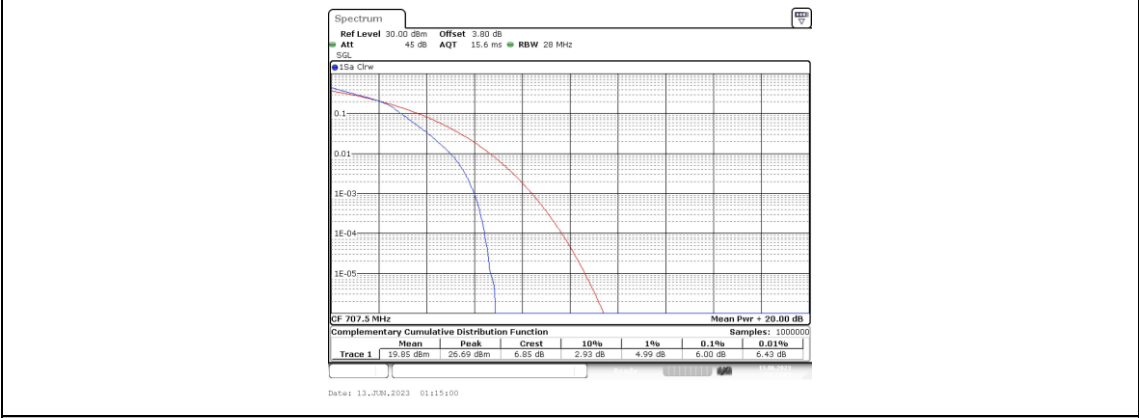




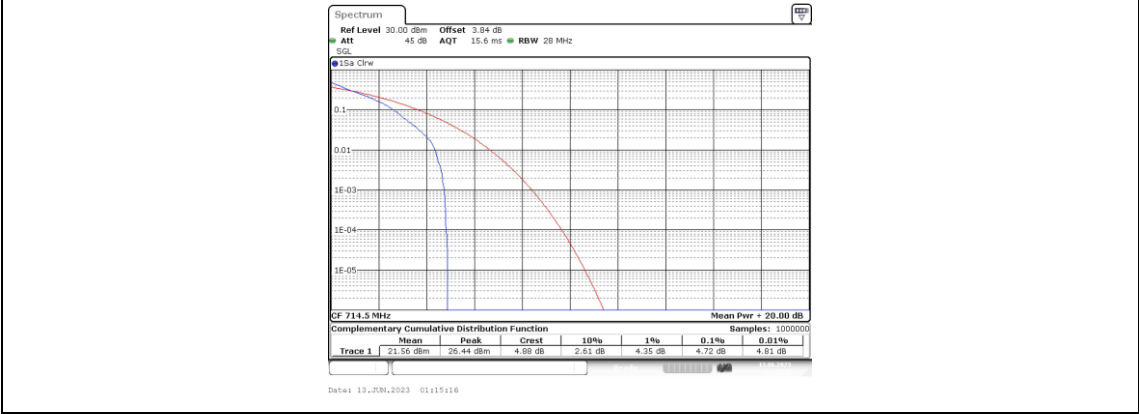
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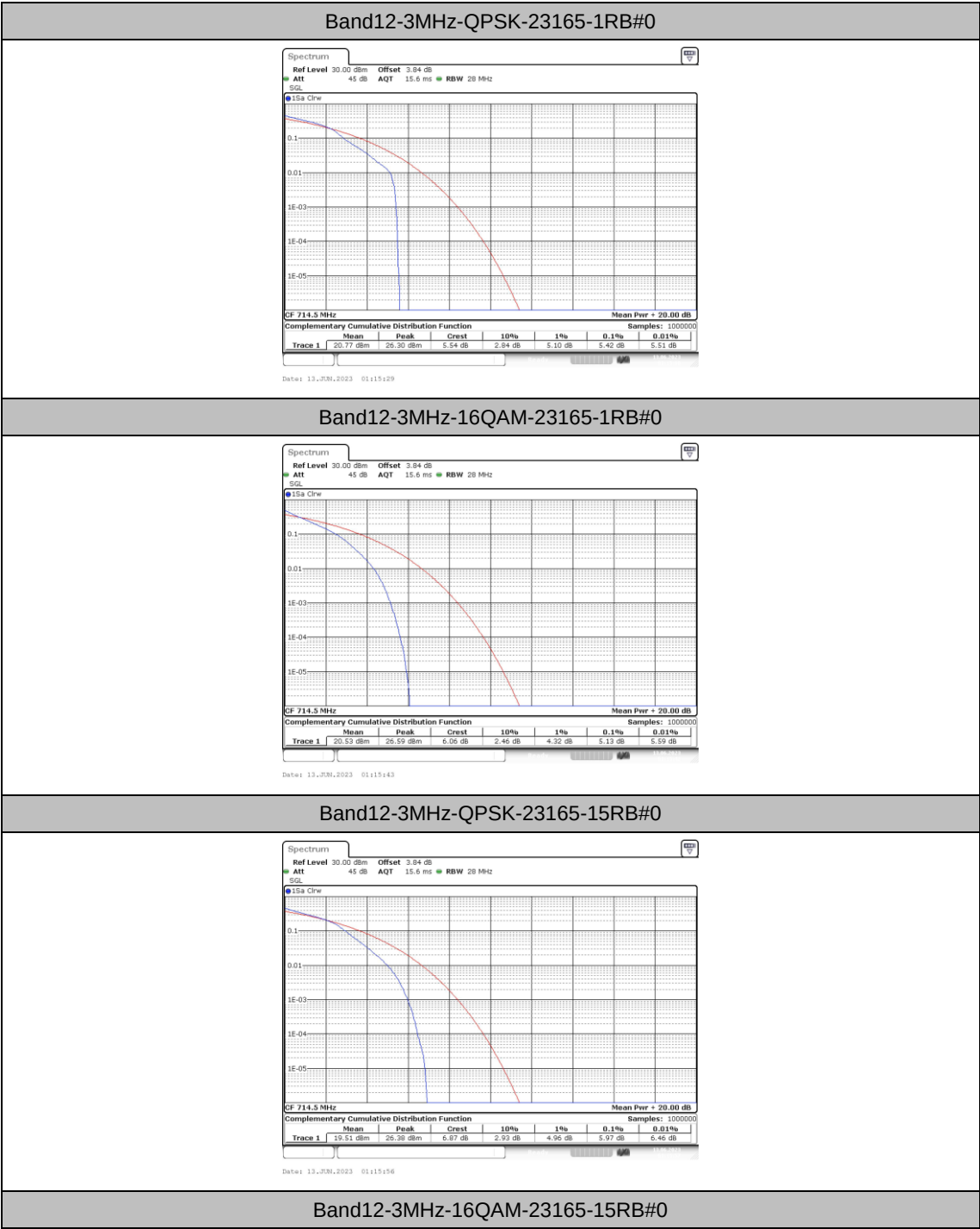


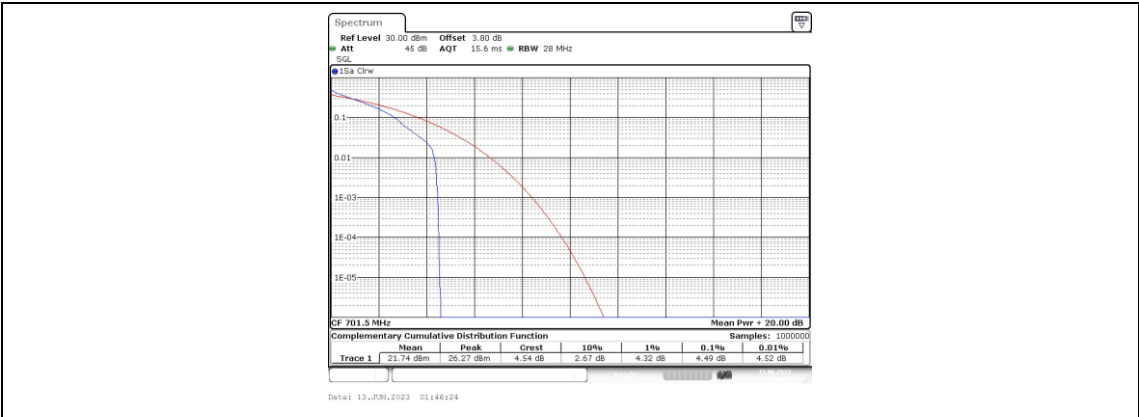
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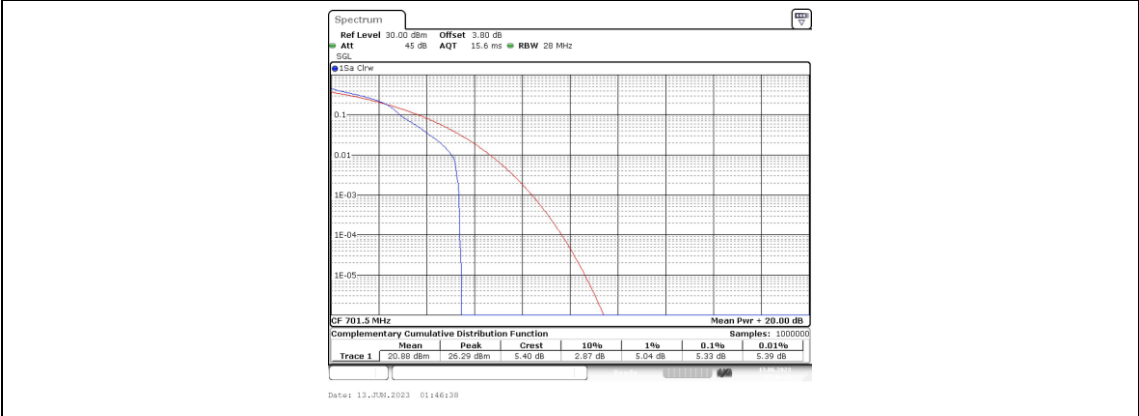
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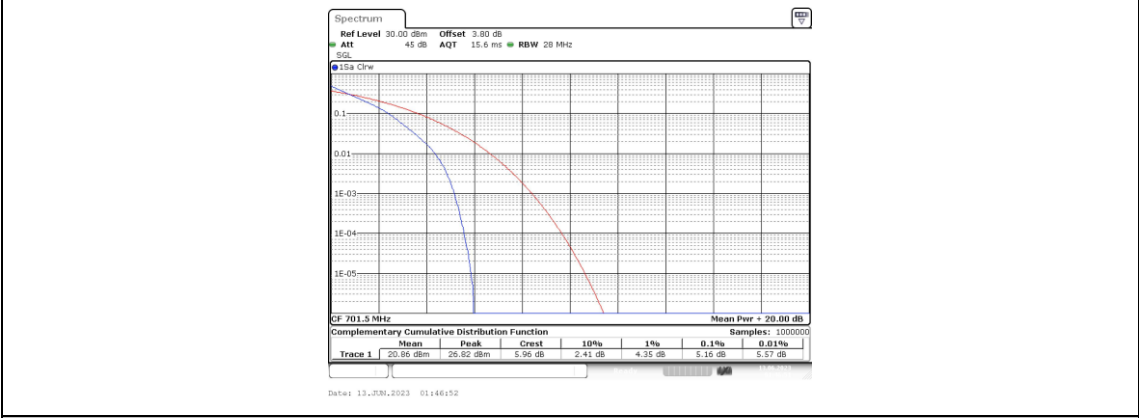




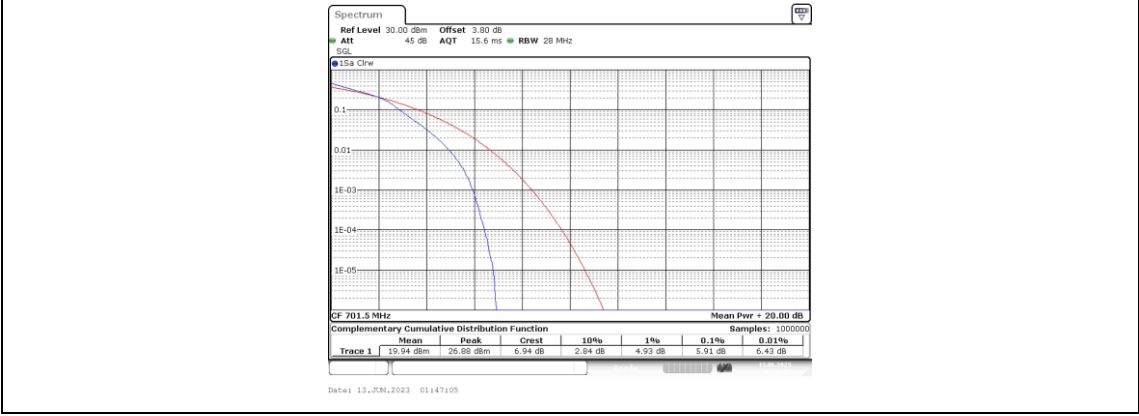
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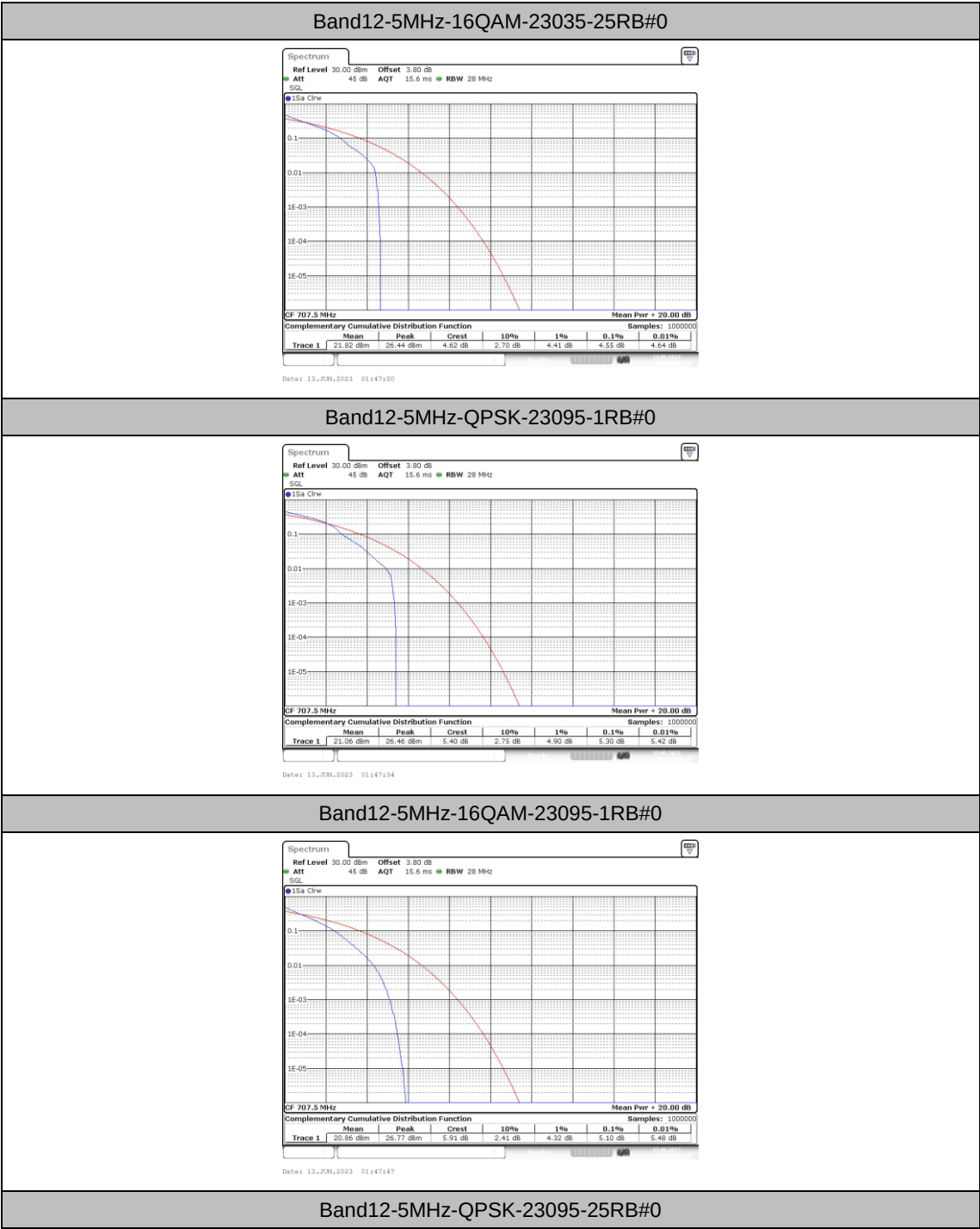


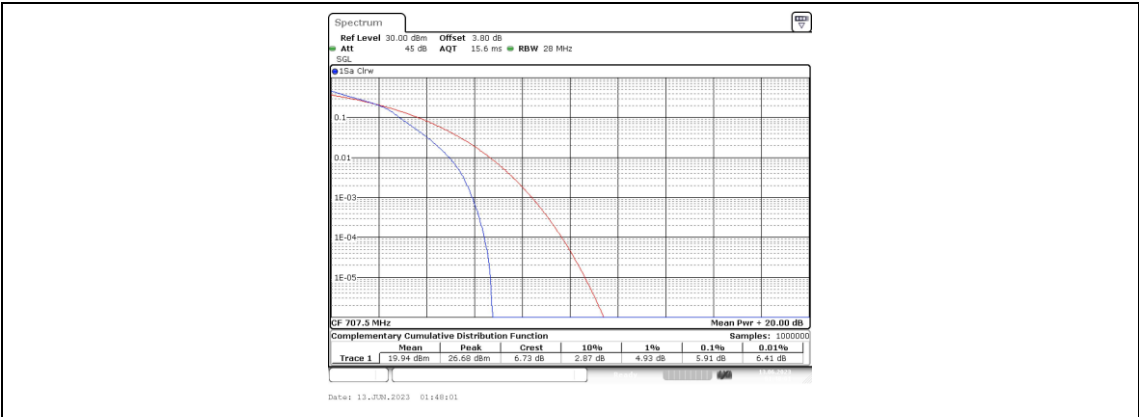
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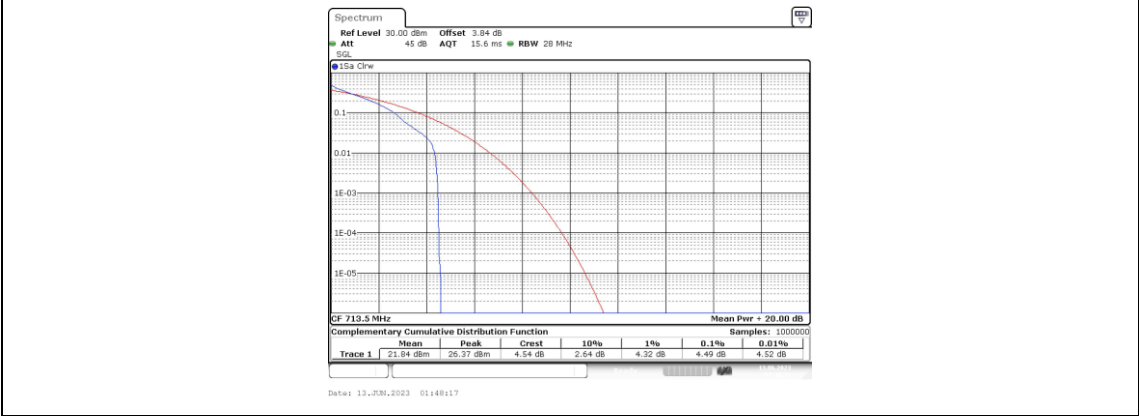
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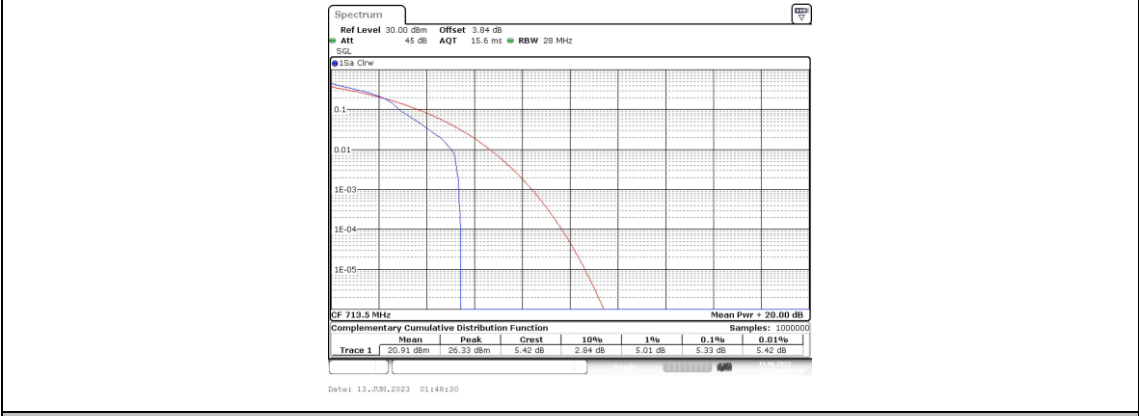




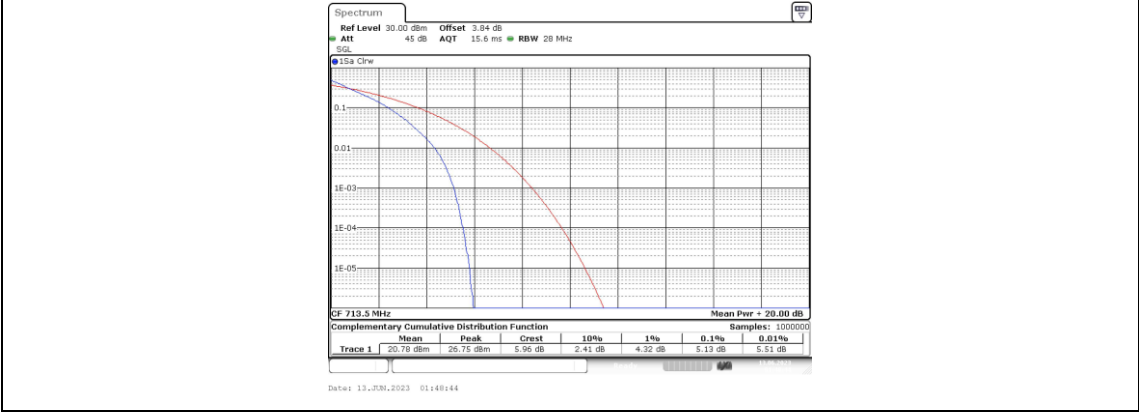
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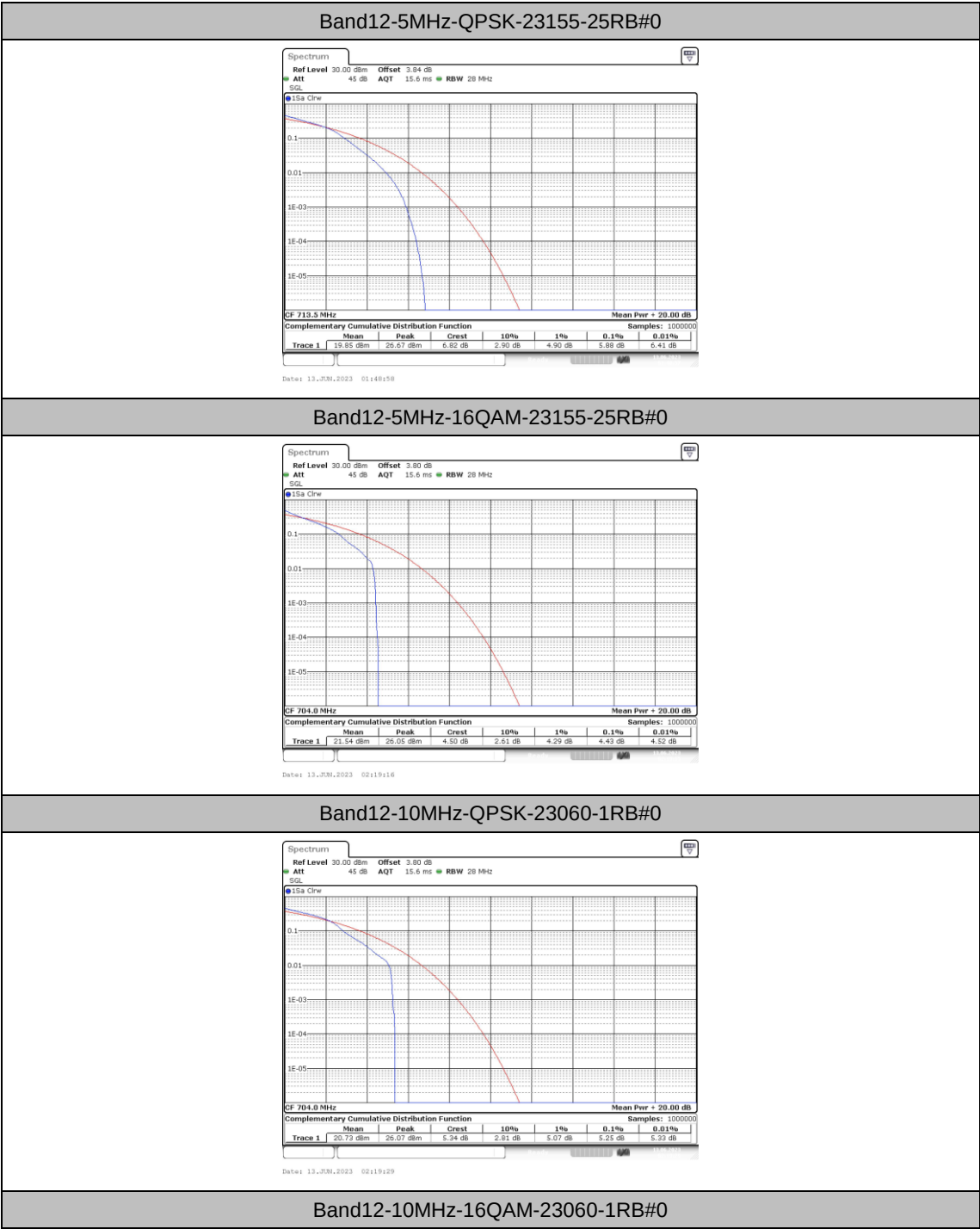


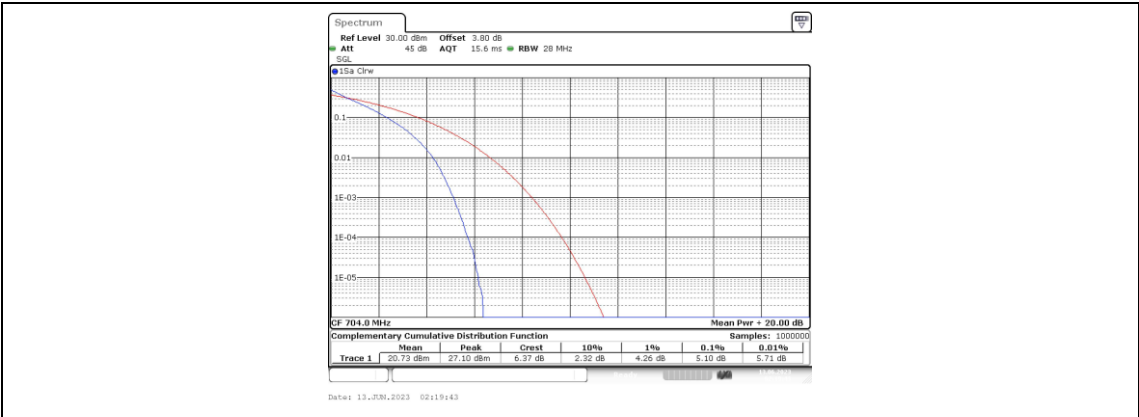
Band12-5MHz-QPSK-23155-1RB#0



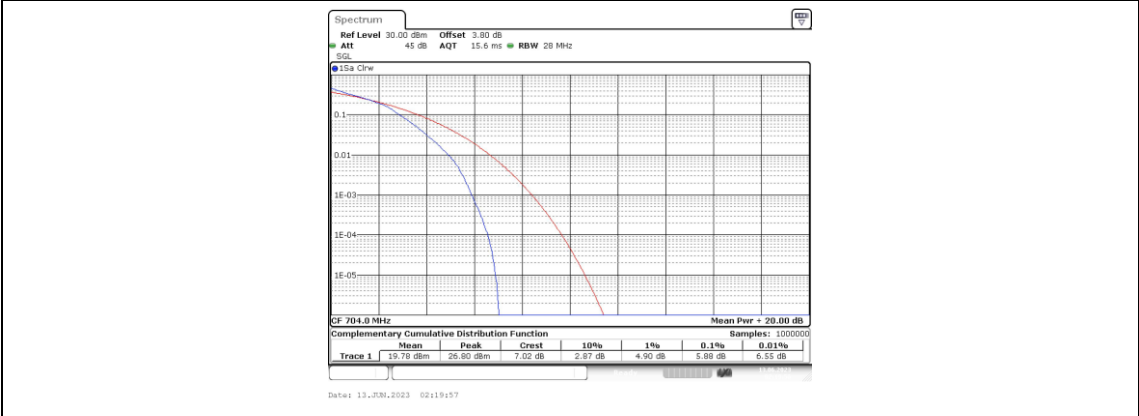
Band12-5MHz-16QAM-23155-1RB#0



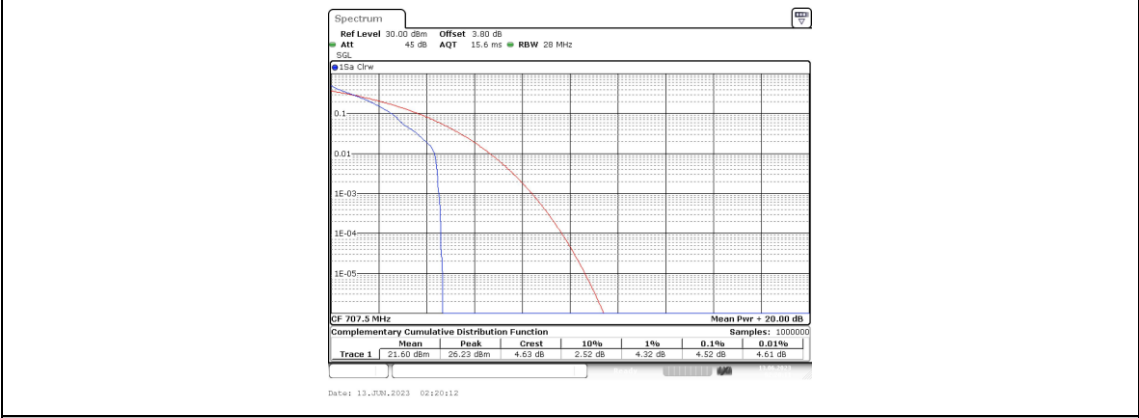




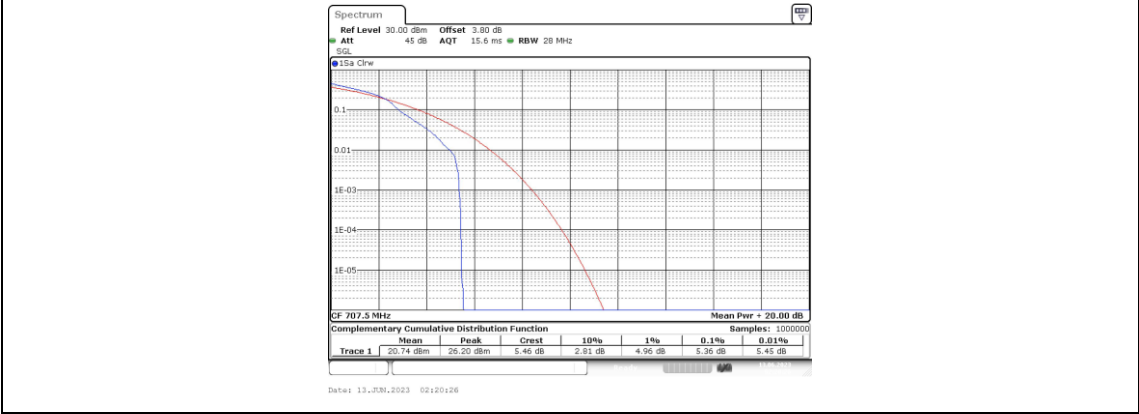
Band12-10MHz-QPSK-23060-50RB#0

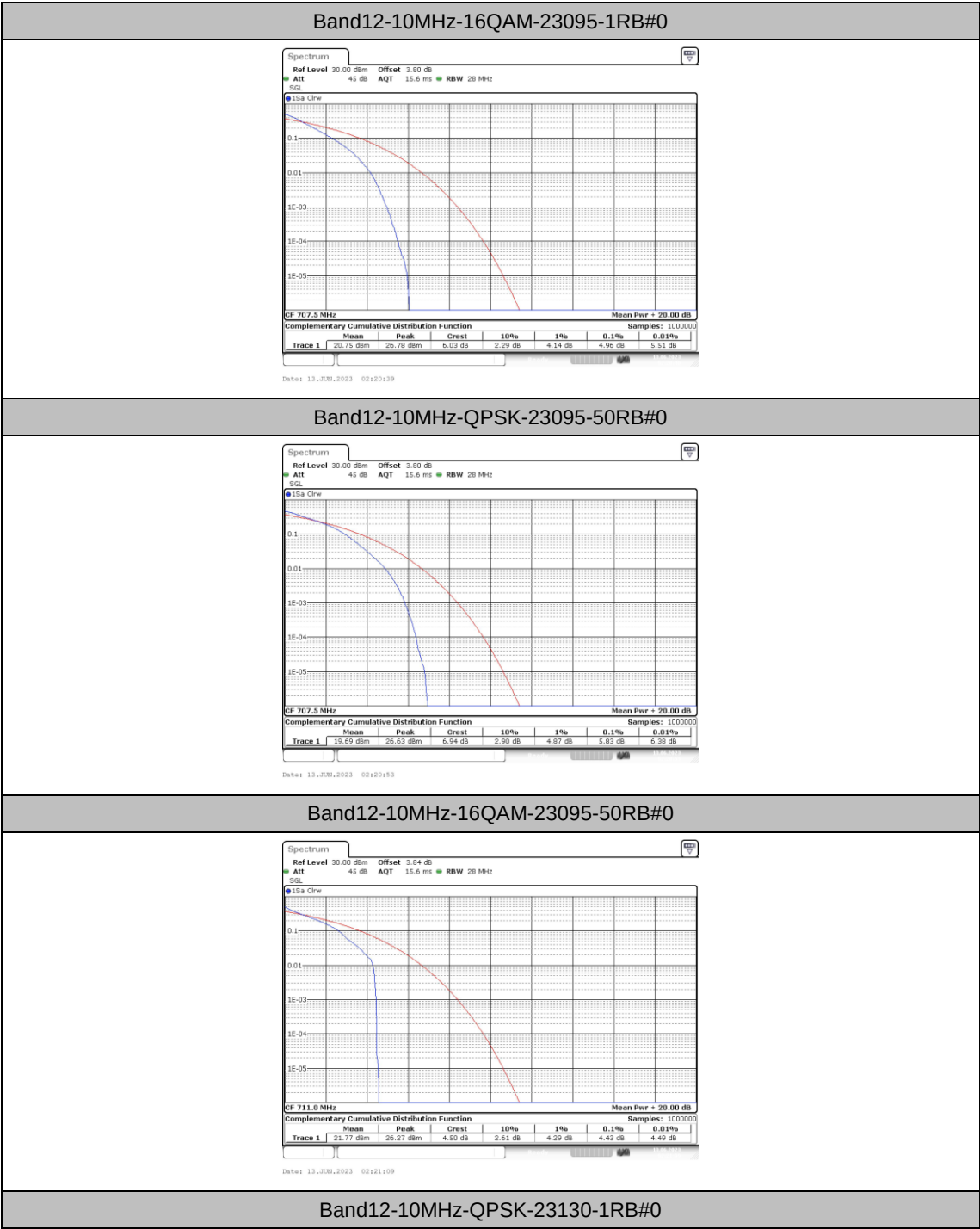


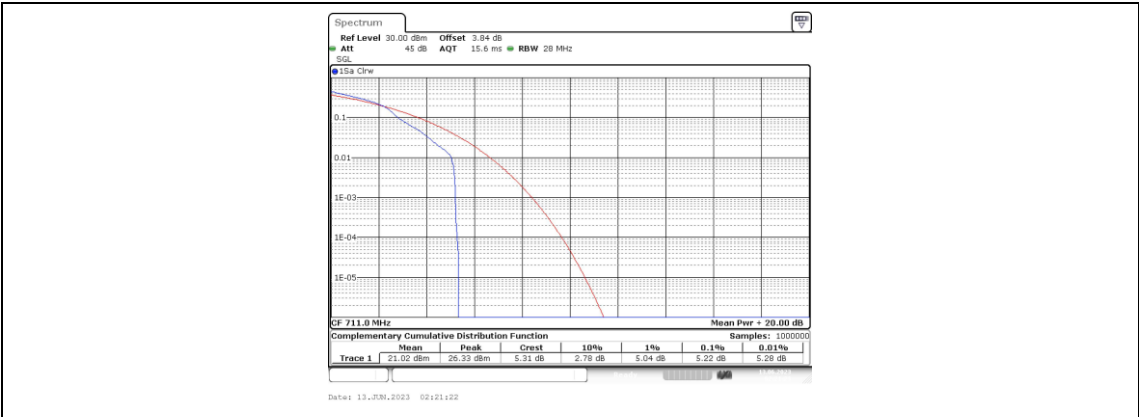
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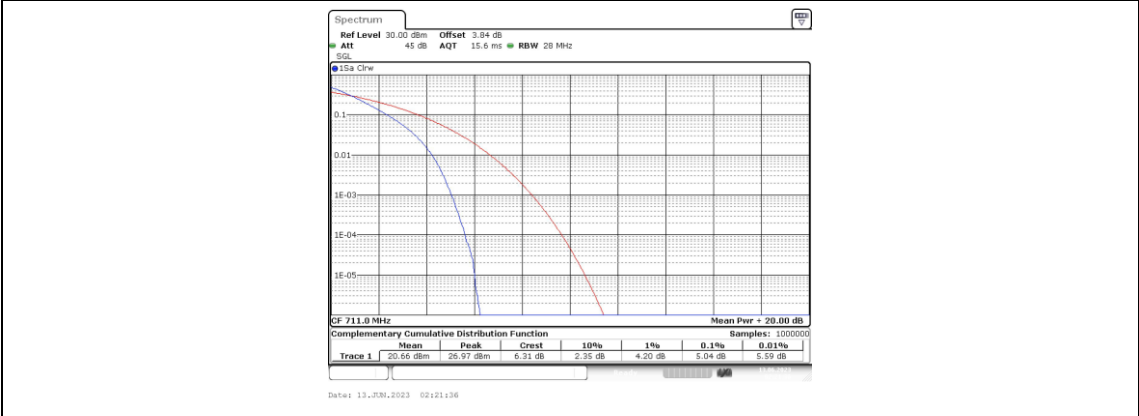
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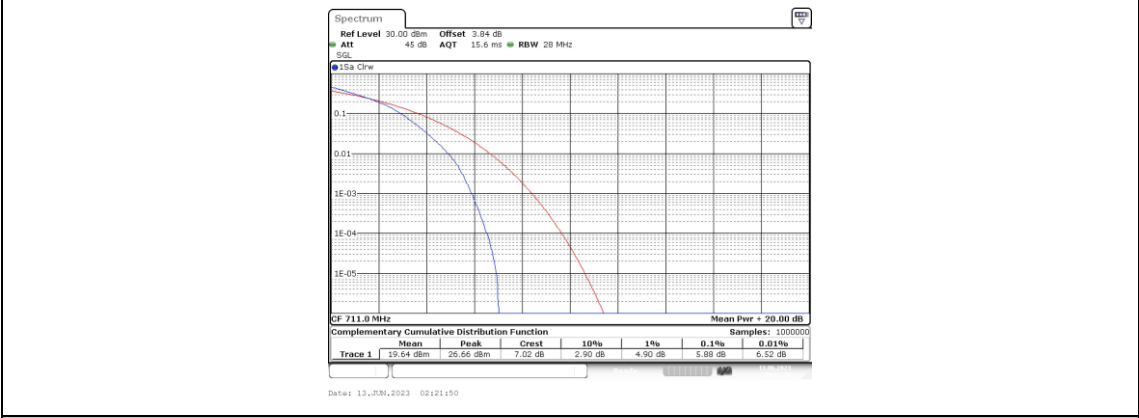




Band12-10MHz-16QAM-23130-1RB#0



Band12-10MHz-QPSK-23130-50RB#0



Band12-10MHz-16QAM-23130-50RB#0

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.088	1.23	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.088	1.23	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.088	1.21	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.088	1.24	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.088	1.21	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.088	1.24	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.696	2.86	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.686	2.88	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.696	2.87	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.696	2.88	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.696	2.87	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.696	2.88	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.505	4.80	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.505	4.78	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.486	4.78	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.496	4.78	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.496	4.79	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.505	4.78	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.985	9.57	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.985	9.53	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.952	9.53	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.952	9.53	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.952	9.53	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.952	9.53	PASS

Test Graphs

