

Appendix for LTE Band 12

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.89	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.92	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.92	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.85	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.82	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.86	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.90	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.97	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.98	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.94	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.96	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.01	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.97	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.03	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.96	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.94	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.87	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.97	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.97	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.93	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.00	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.08	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.13	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.00	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.90	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.97	PASS

Band12	1.4MHz	16QAM	23017	3RB#3	21.92	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.87	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.18	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.16	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.14	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.99	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.92	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.95	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.03	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.13	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.13	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.10	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.92	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.09	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.97	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.89	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.89	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.90	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.87	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.03	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.04	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.97	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.04	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.09	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.08	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.94	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.08	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.08	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.14	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.04	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.08	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.02	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.93	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.08	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.17	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.01	PASS

Band12	3MHz	QPSK	23165	15RB#0	22.07	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.24	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.18	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.17	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.05	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.07	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.03	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.02	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.27	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.34	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.30	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.13	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.10	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.10	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.98	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.99	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.05	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.90	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.19	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.20	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.09	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.02	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.99	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.08	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.05	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.06	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.07	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.10	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.03	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.11	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.15	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.17	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.13	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.13	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.16	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.07	PASS

Band12	5MHz	QPSK	23155	1RB#0	23.15	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.10	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.98	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.15	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.16	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.07	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.14	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.01	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.14	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.11	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.05	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.04	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.06	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.11	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.35	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.36	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.39	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.19	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.17	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.20	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.02	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.13	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.15	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.98	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.22	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.19	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.14	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.20	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.93	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.89	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.01	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.08	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.10	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.12	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.16	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.10	PASS

Band12	10MHz	QPSK	23095	1RB#24	23.09	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.00	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.13	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.14	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.17	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.12	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.22	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.06	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.88	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.14	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.13	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.18	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.13	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.31	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.20	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.31	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.10	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.09	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.17	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.08	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.29	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.28	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.25	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.10	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.18	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.20	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.14	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.02	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.11	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.00	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.20	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.25	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.22	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.14	PASS

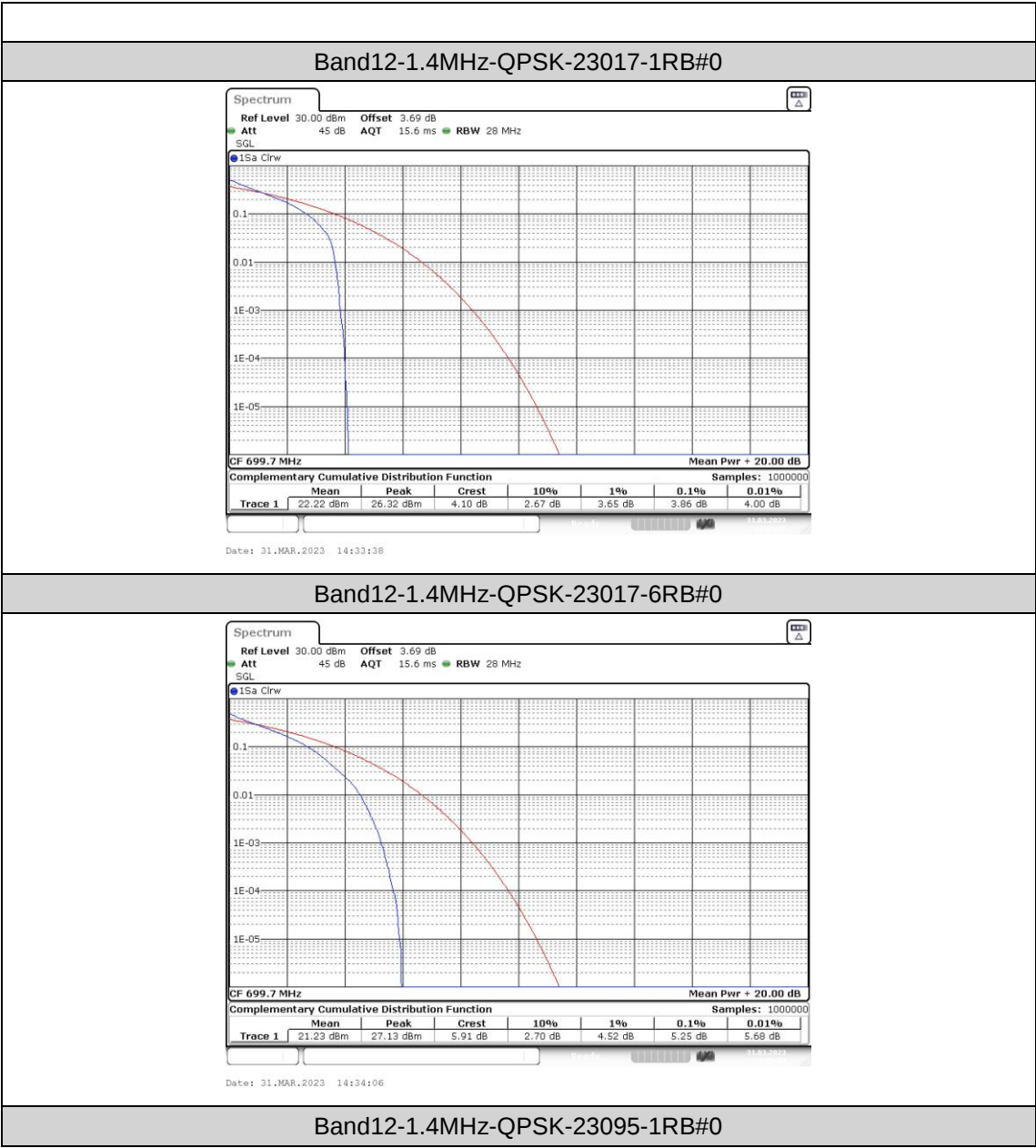
Appendix B: Peak-to-Average Ratio(CCDF)

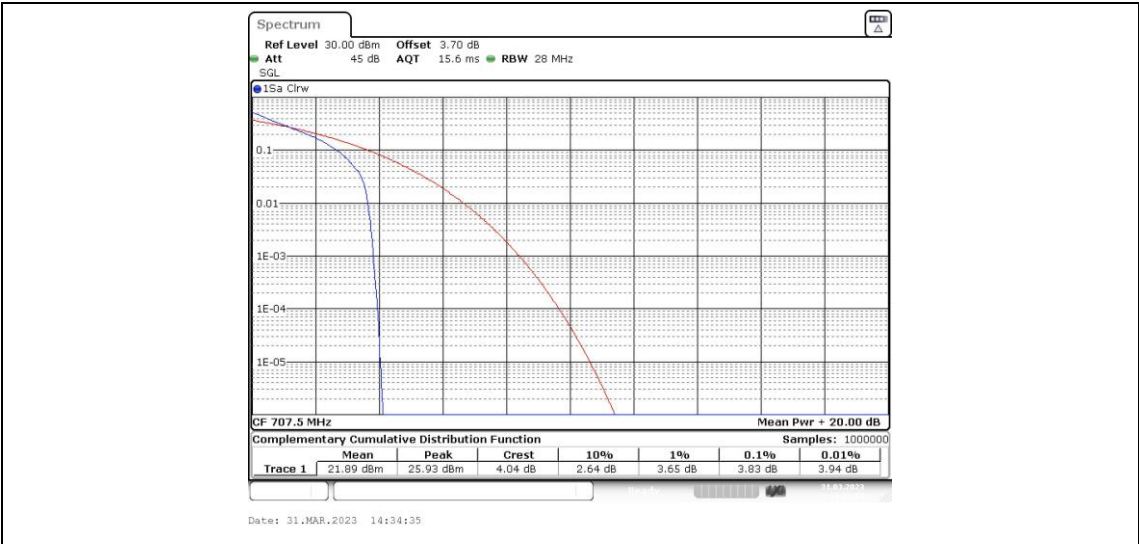
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	3.86	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.25	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	3.83	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.25	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3.80	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.16	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.59	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.09	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.51	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.06	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.57	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.94	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	3.62	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.19	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	3.65	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.19	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	3.59	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.13	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.33	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.03	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.28	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.06	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.33	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.00	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	3.59	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.28	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	3.62	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.28	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	3.59	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.28	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.42	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.06	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.19	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.06	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.39	13	PASS

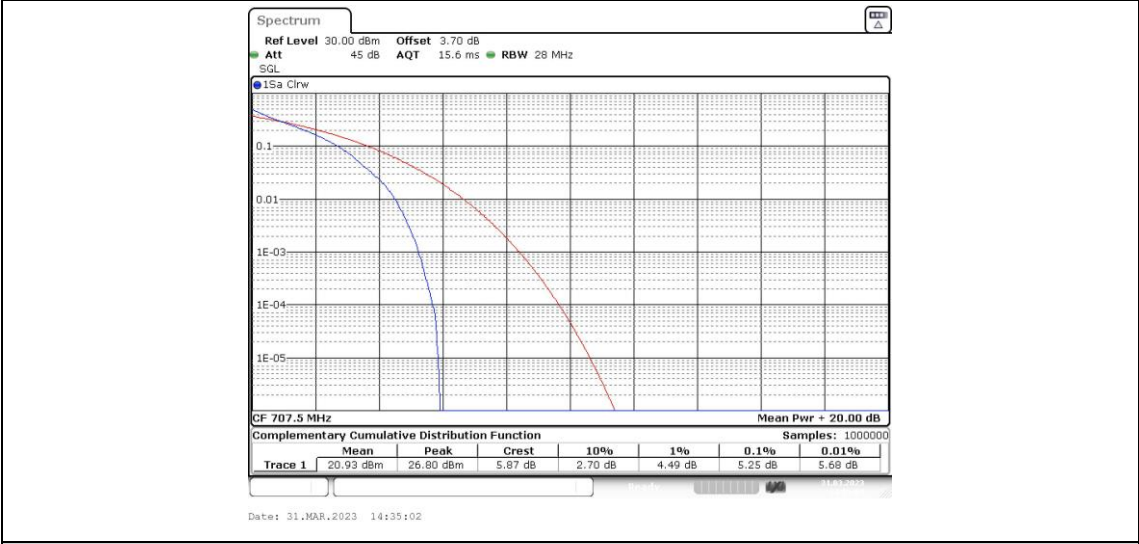
Band12	5MHz	16QAM	23155	25RB#0	6.03	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	3.57	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.19	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	3.51	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.19	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	3.54	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.16	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.25	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.03	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.19	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.03	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.00	13	PASS

Test Graphs

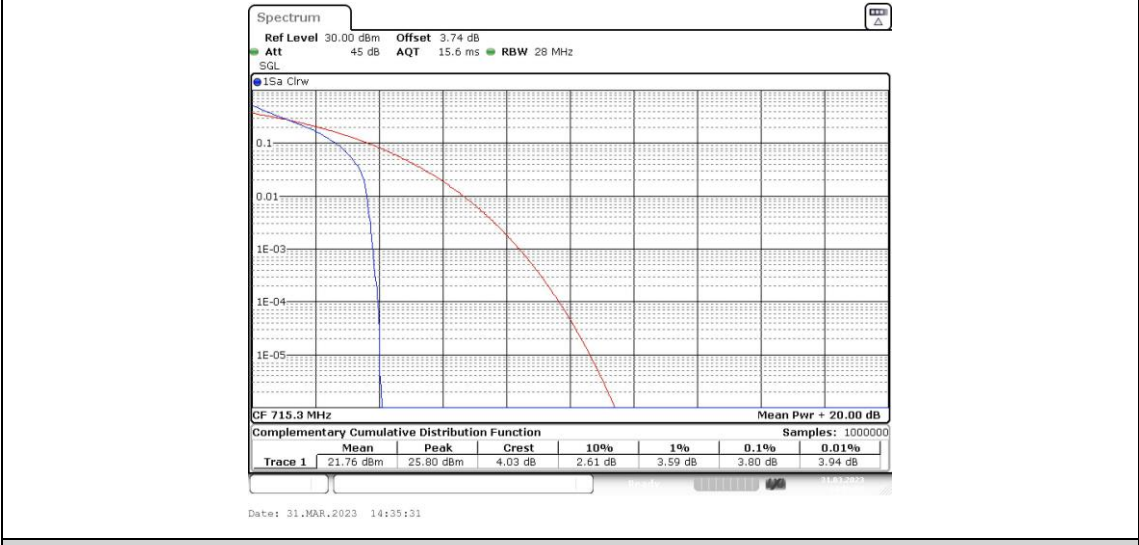




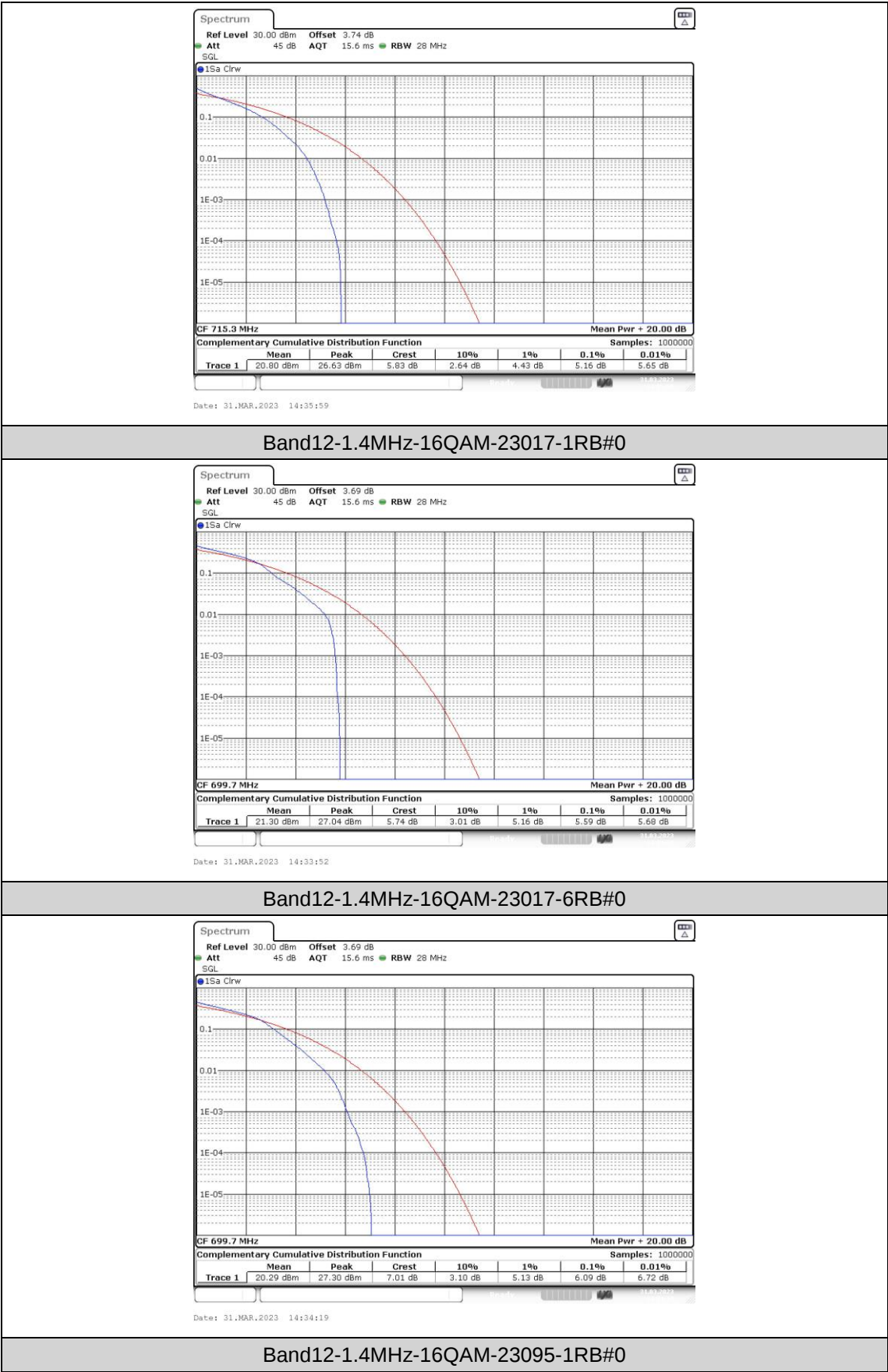
Band12-1.4MHz-QPSK-23095-6RB#0

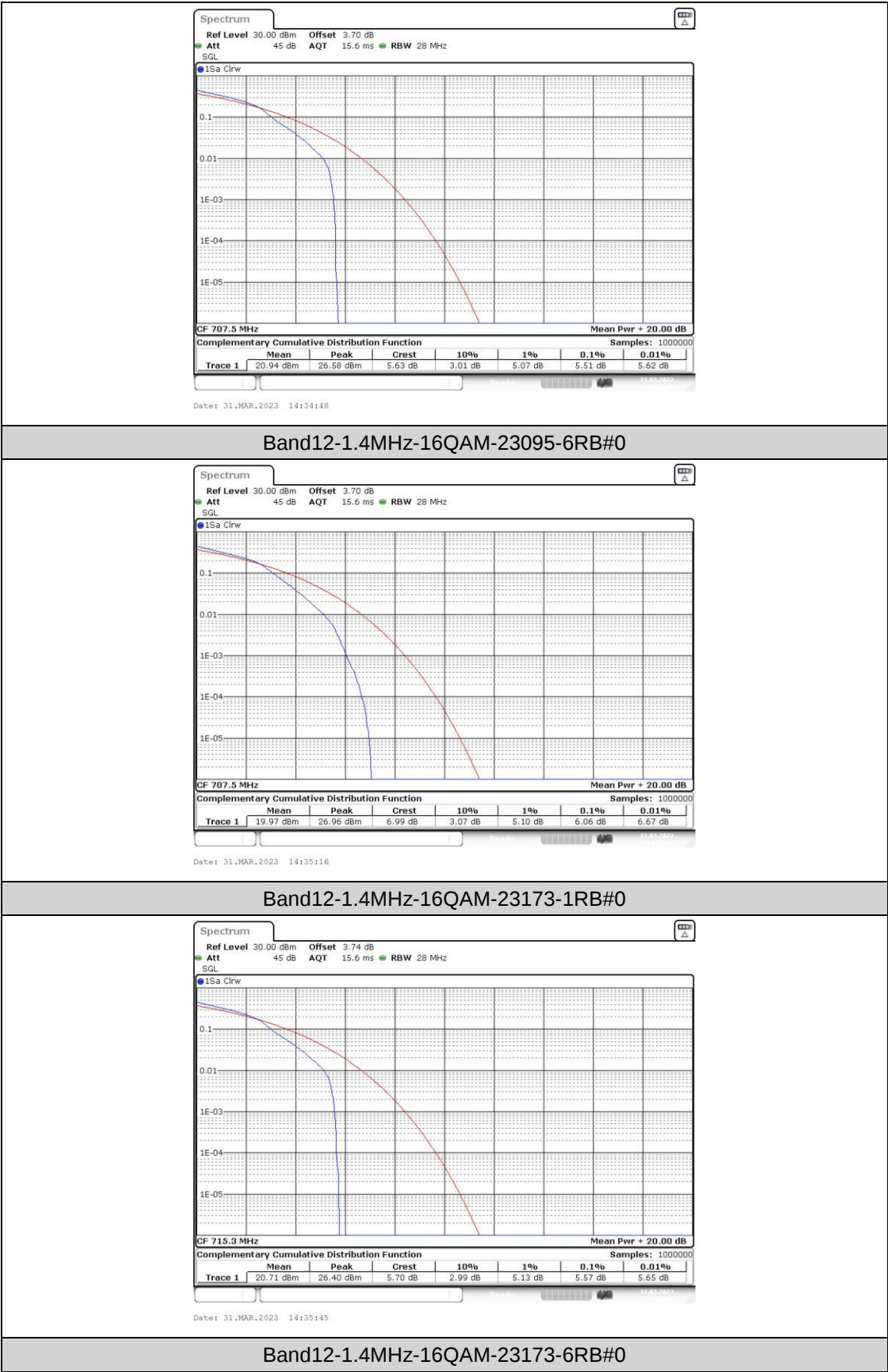


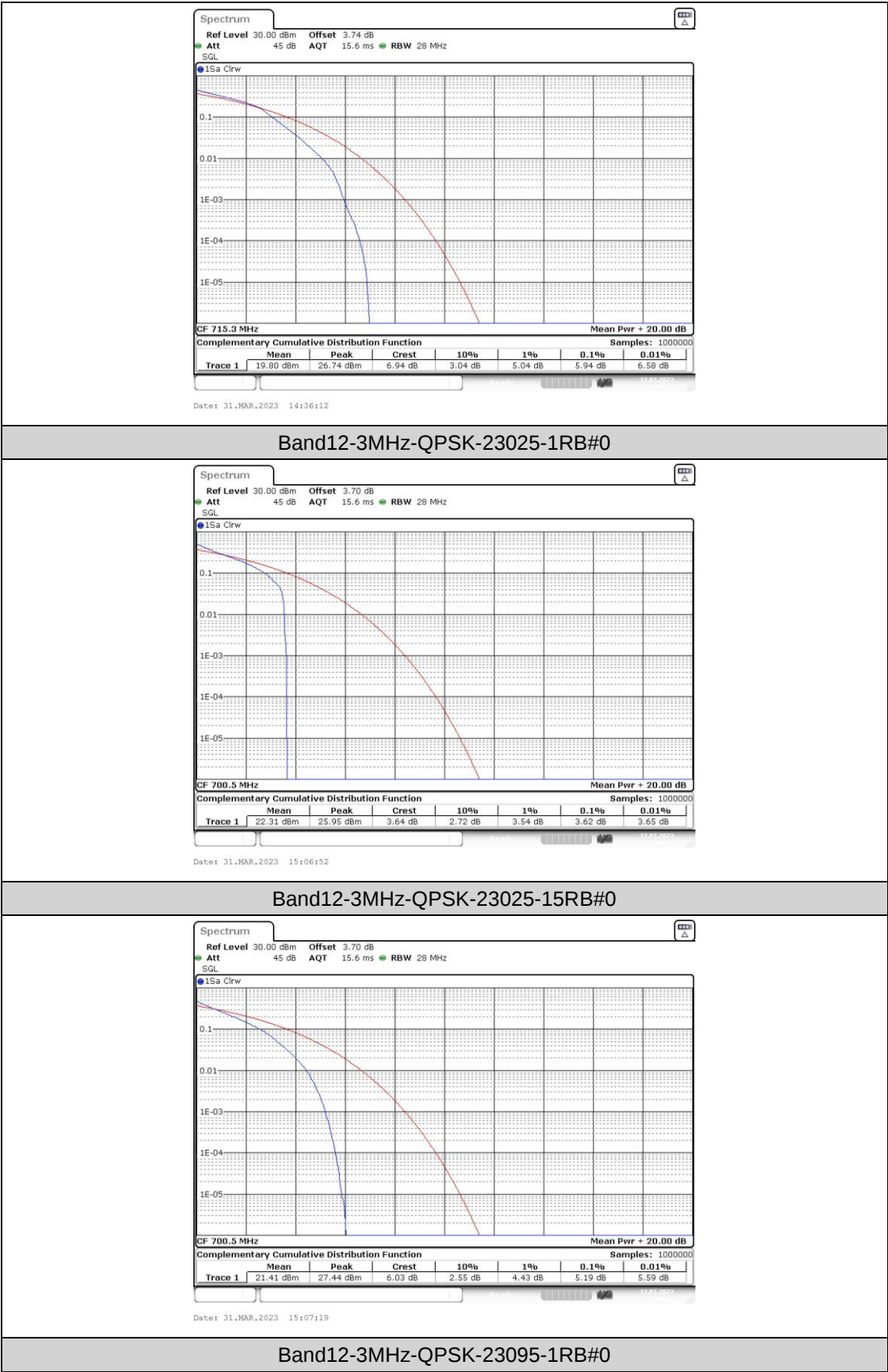
Band12-1.4MHz-QPSK-23173-1RB#0

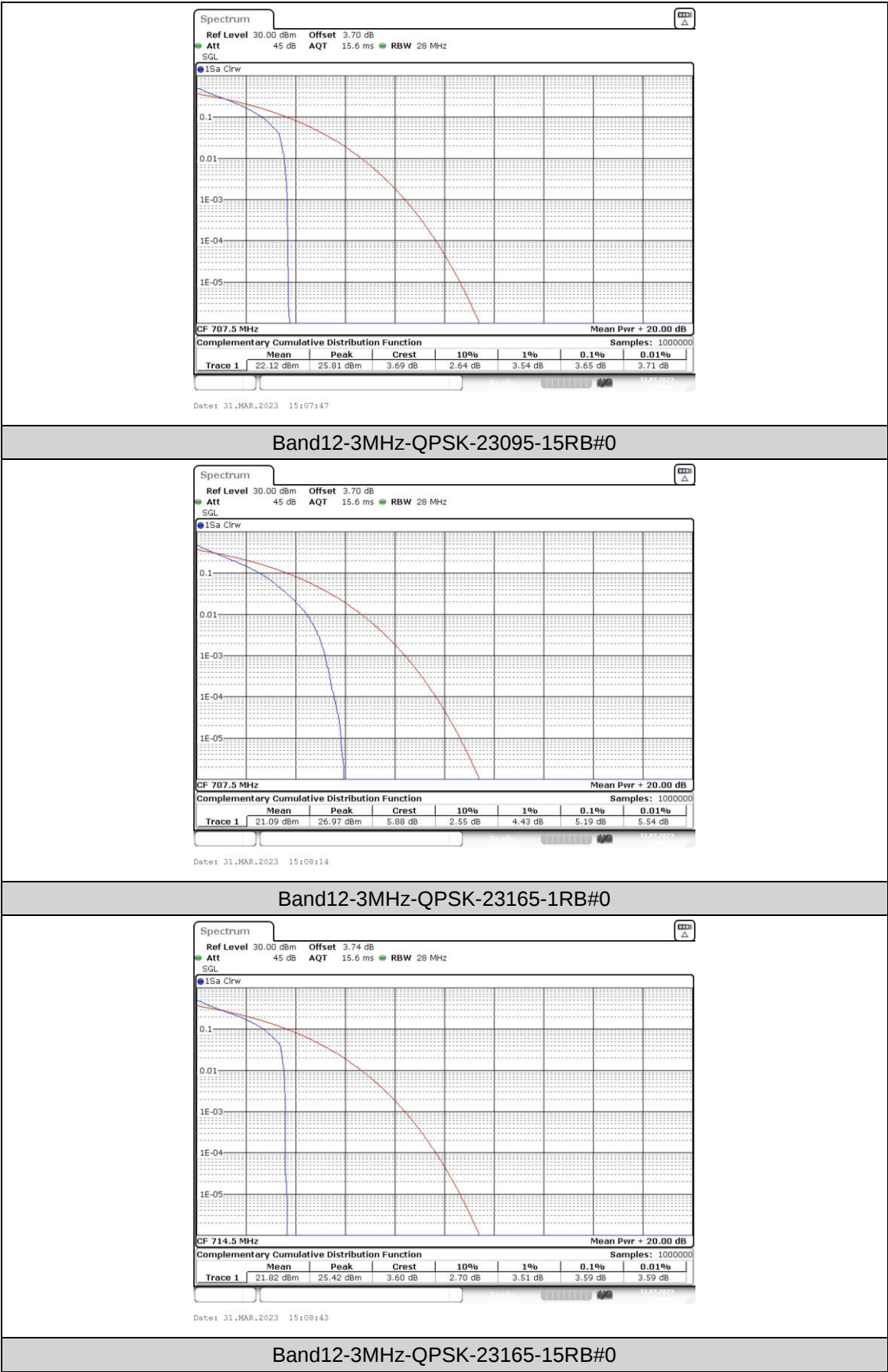


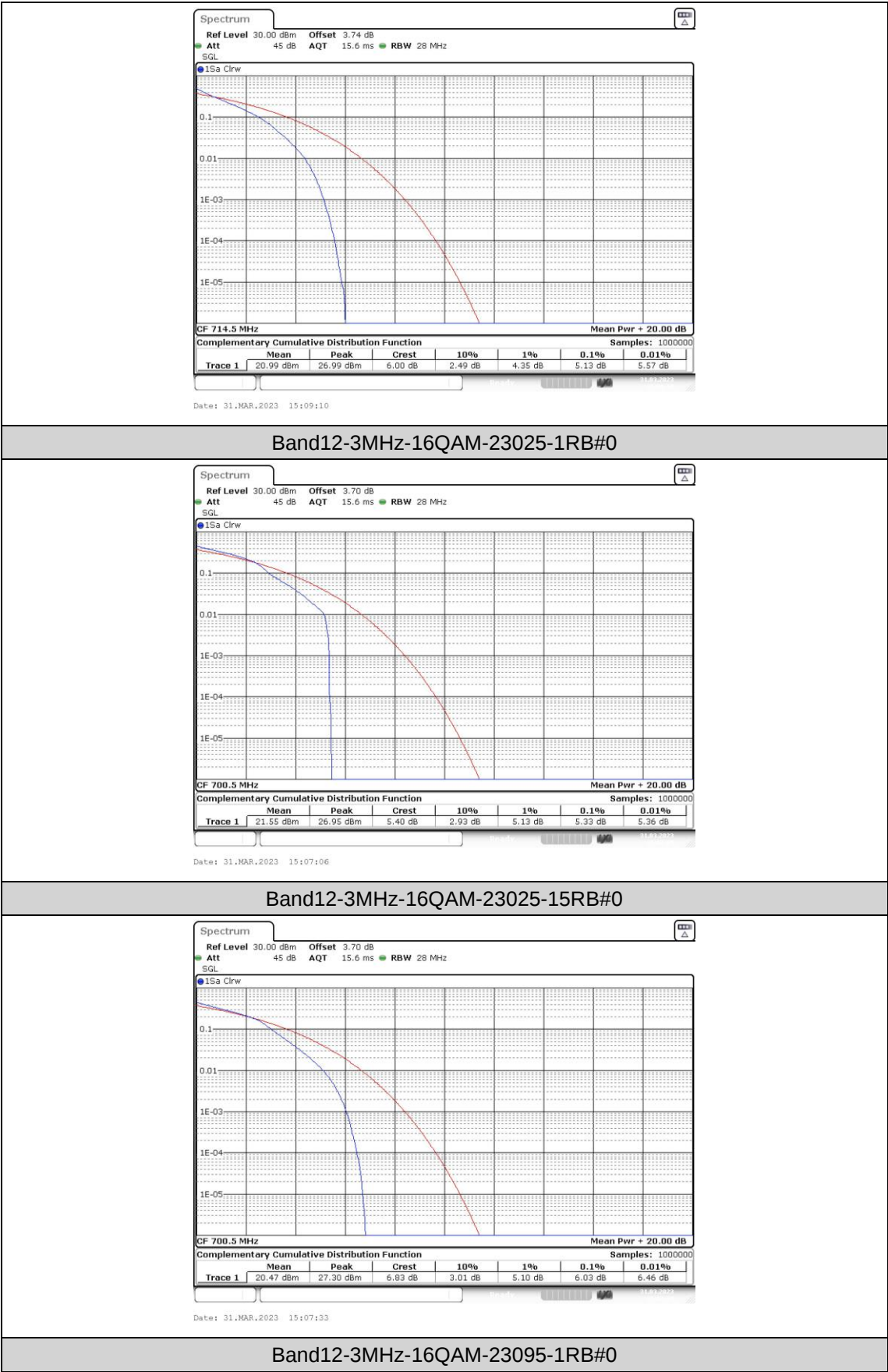
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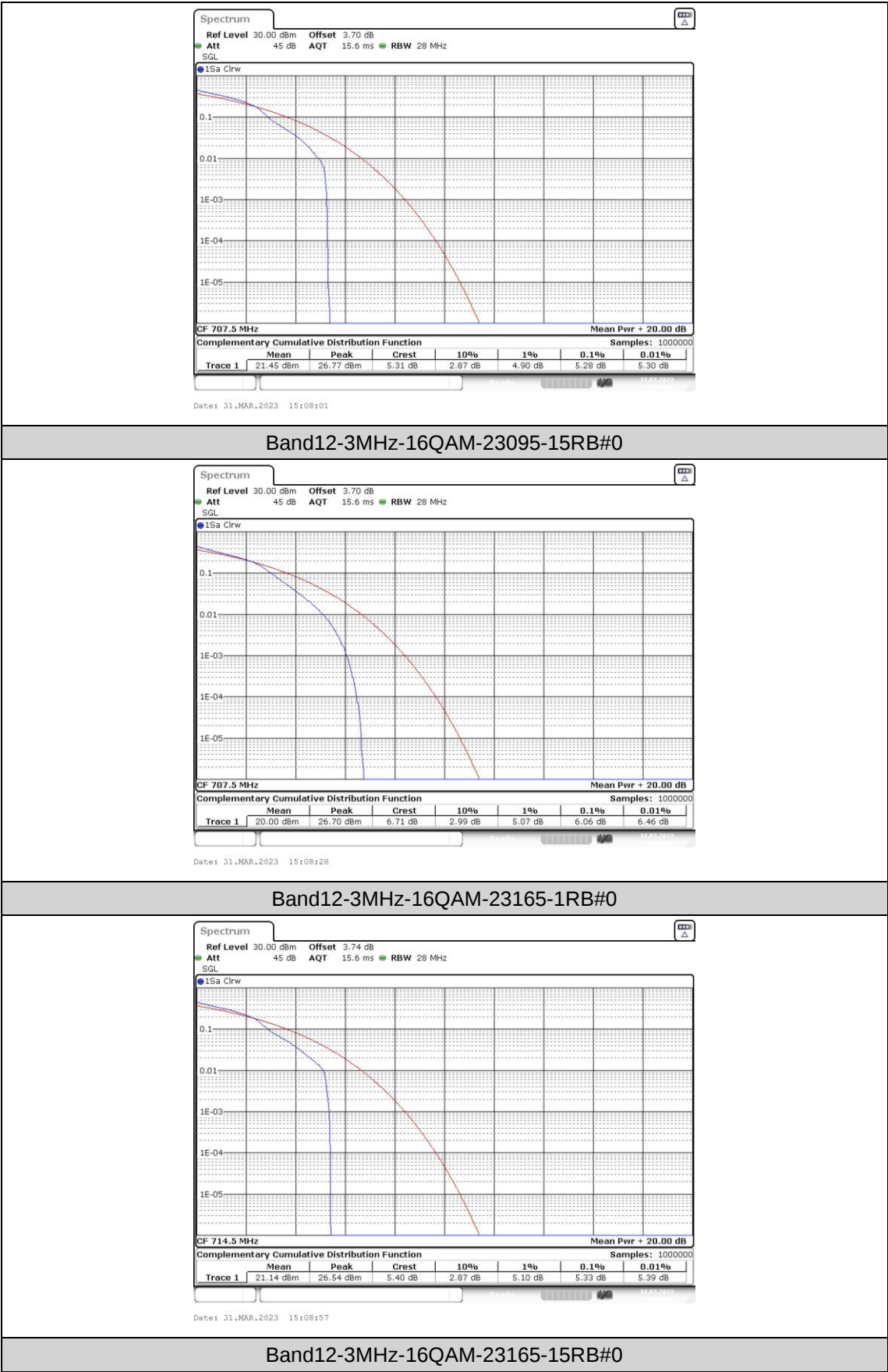


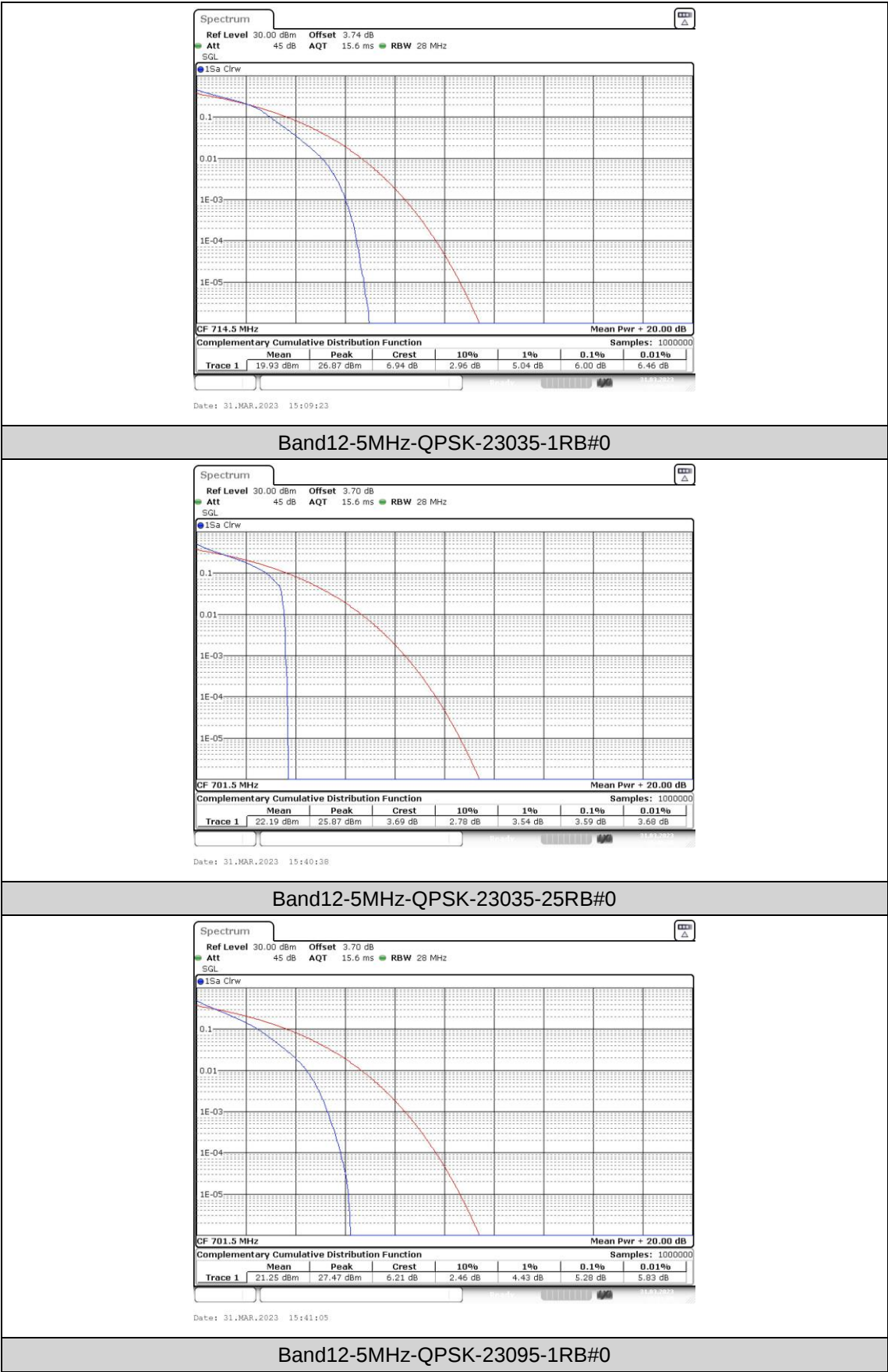


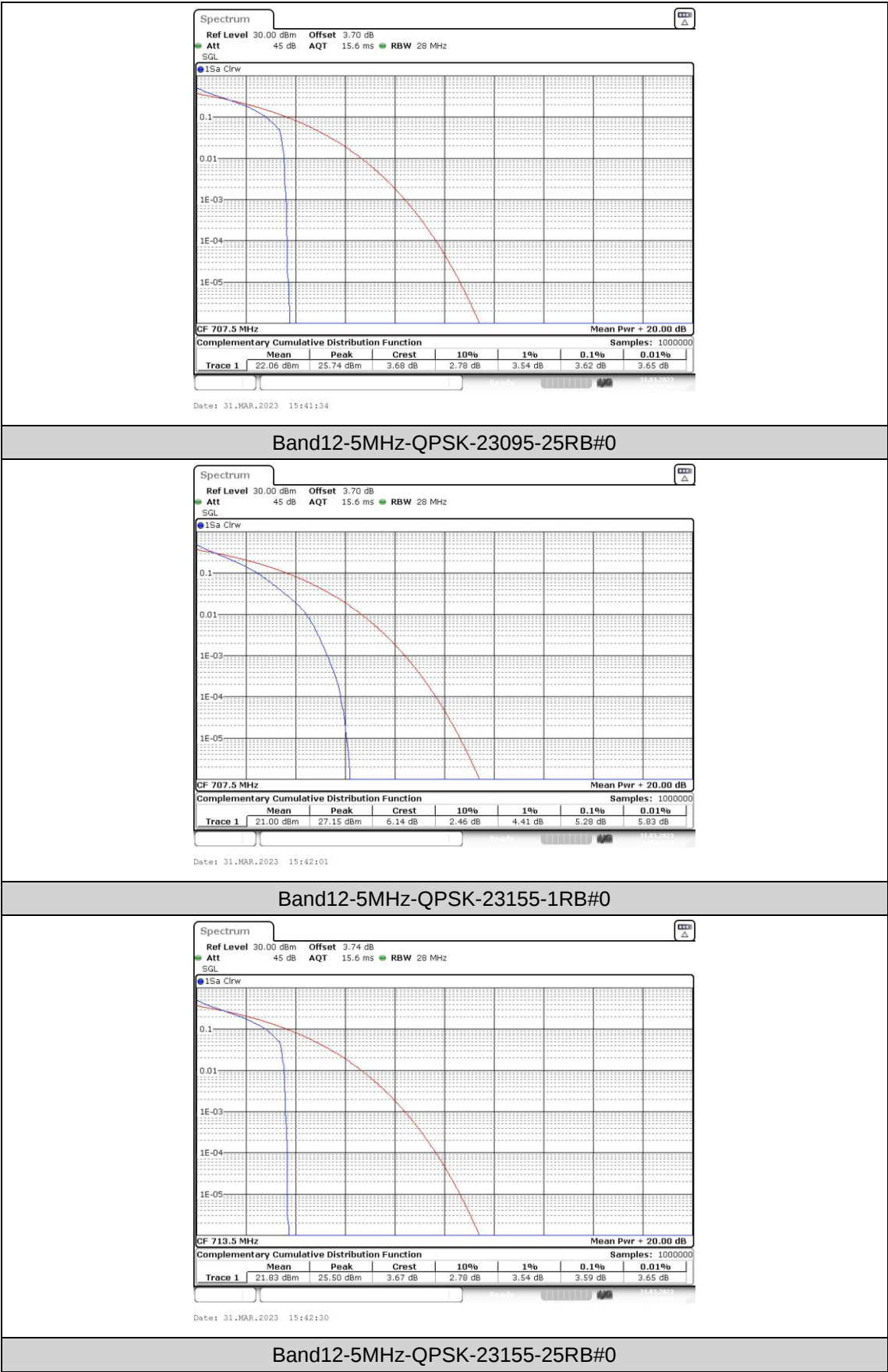


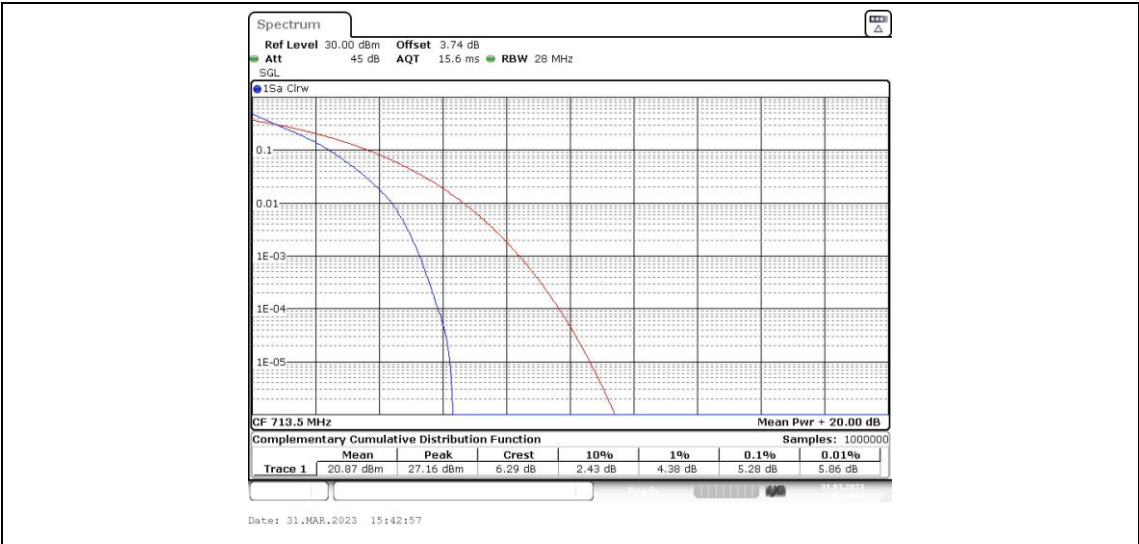




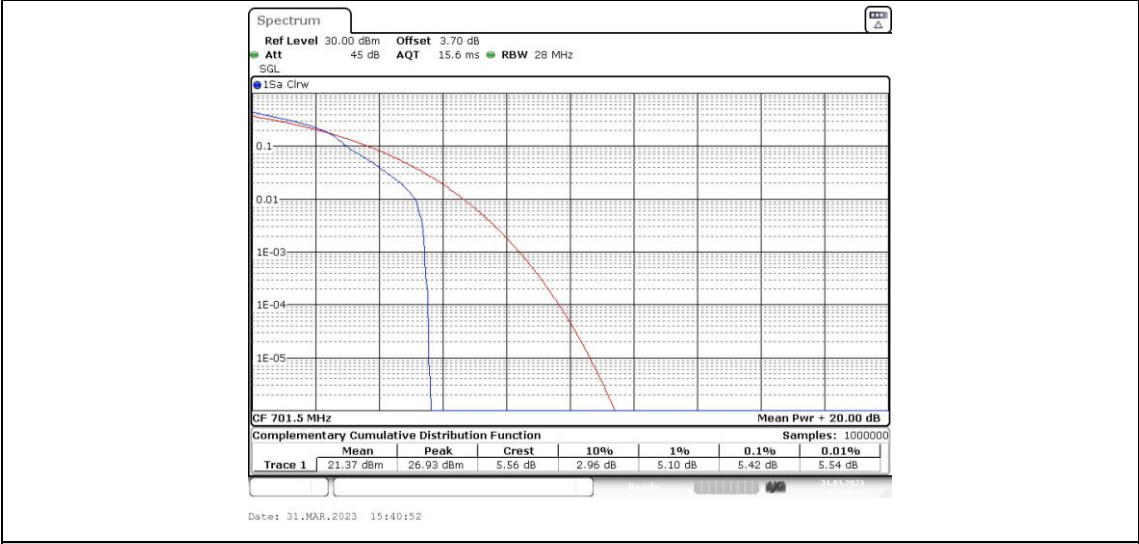




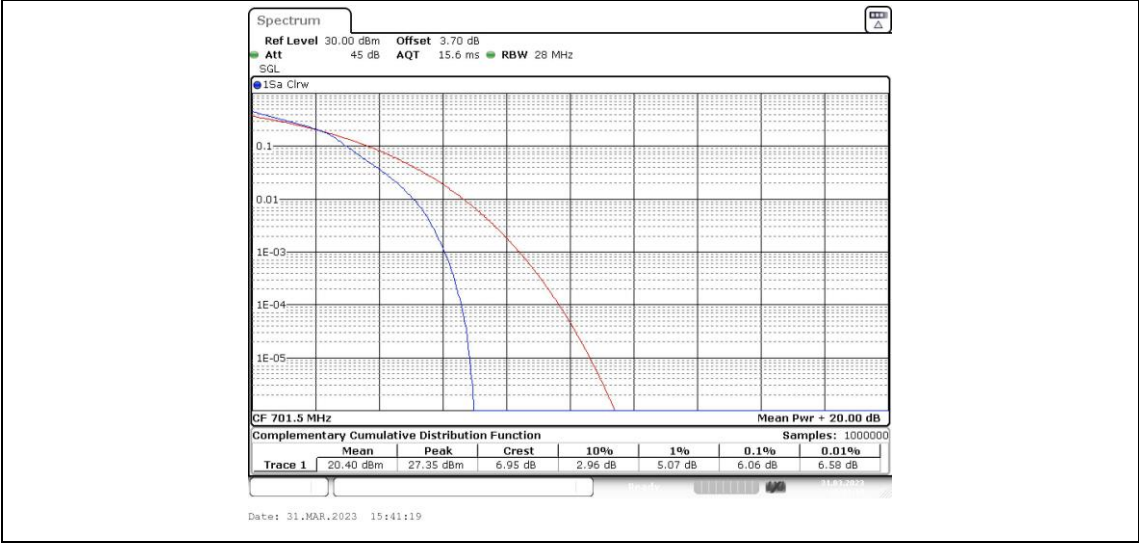




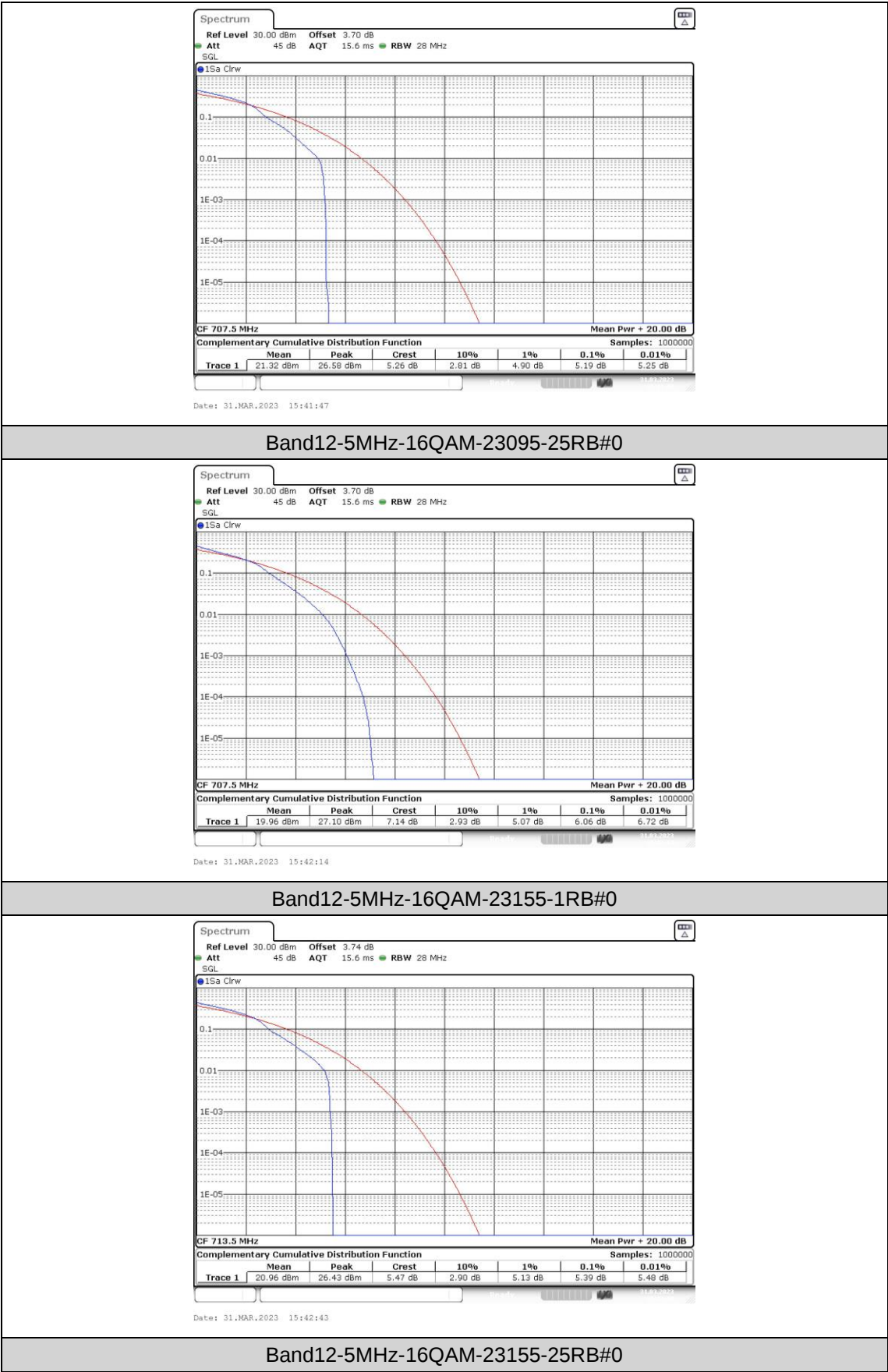
Band12-5MHz-16QAM-23035-1RB#0

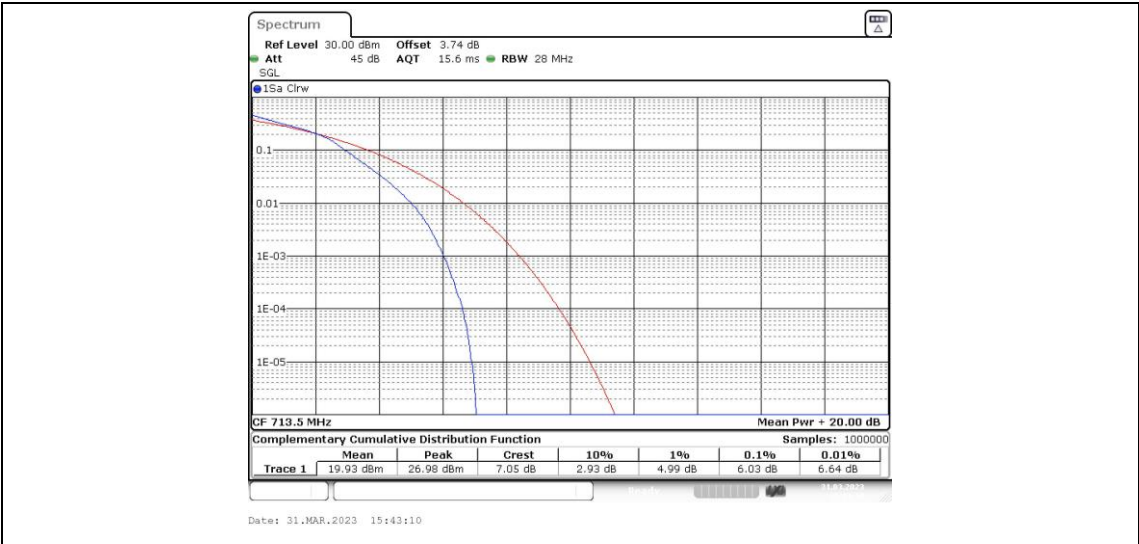


Band12-5MHz-16QAM-23035-25RB#0

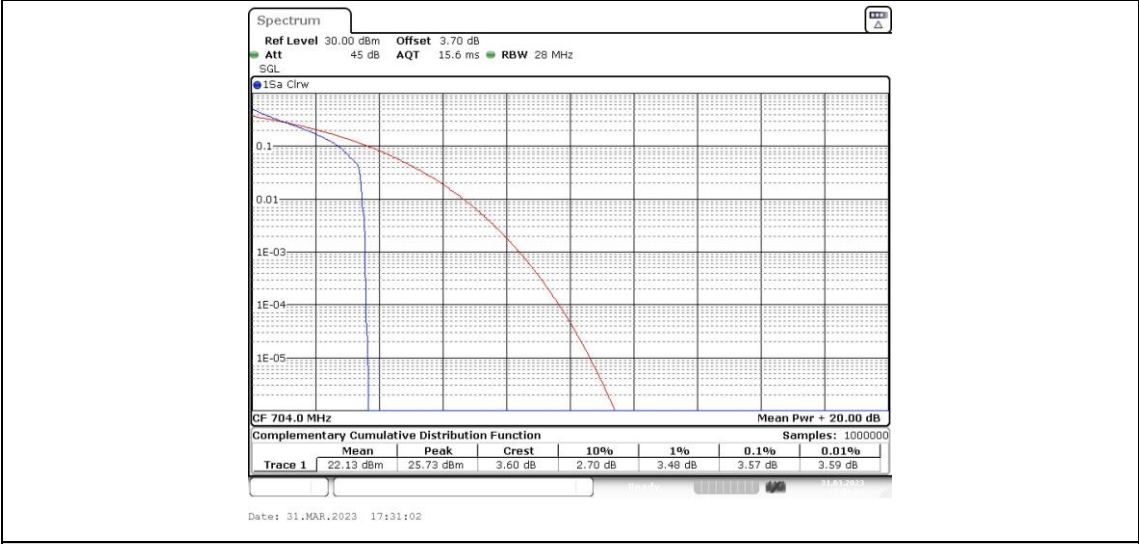


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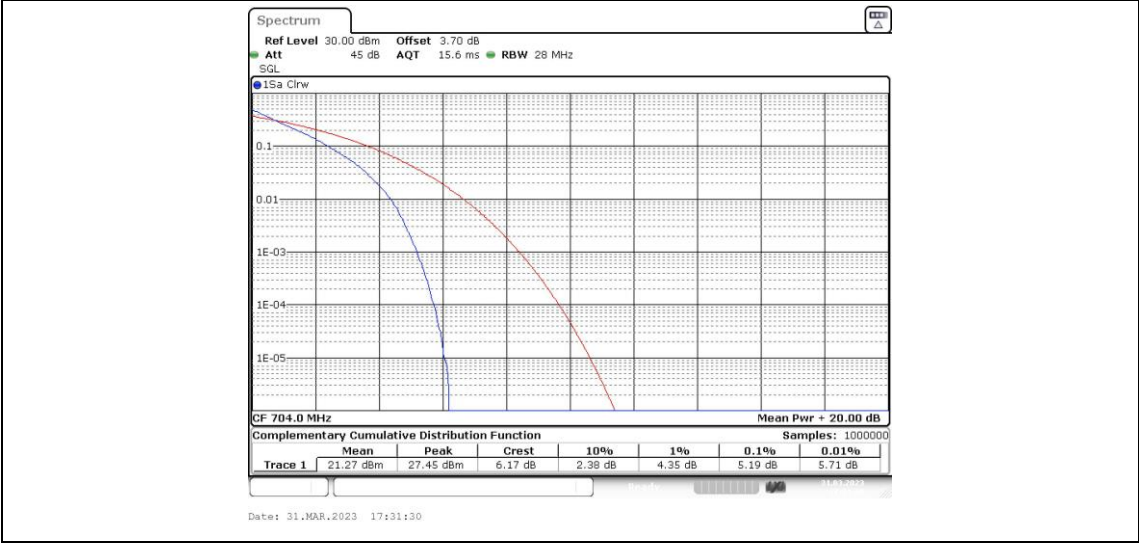




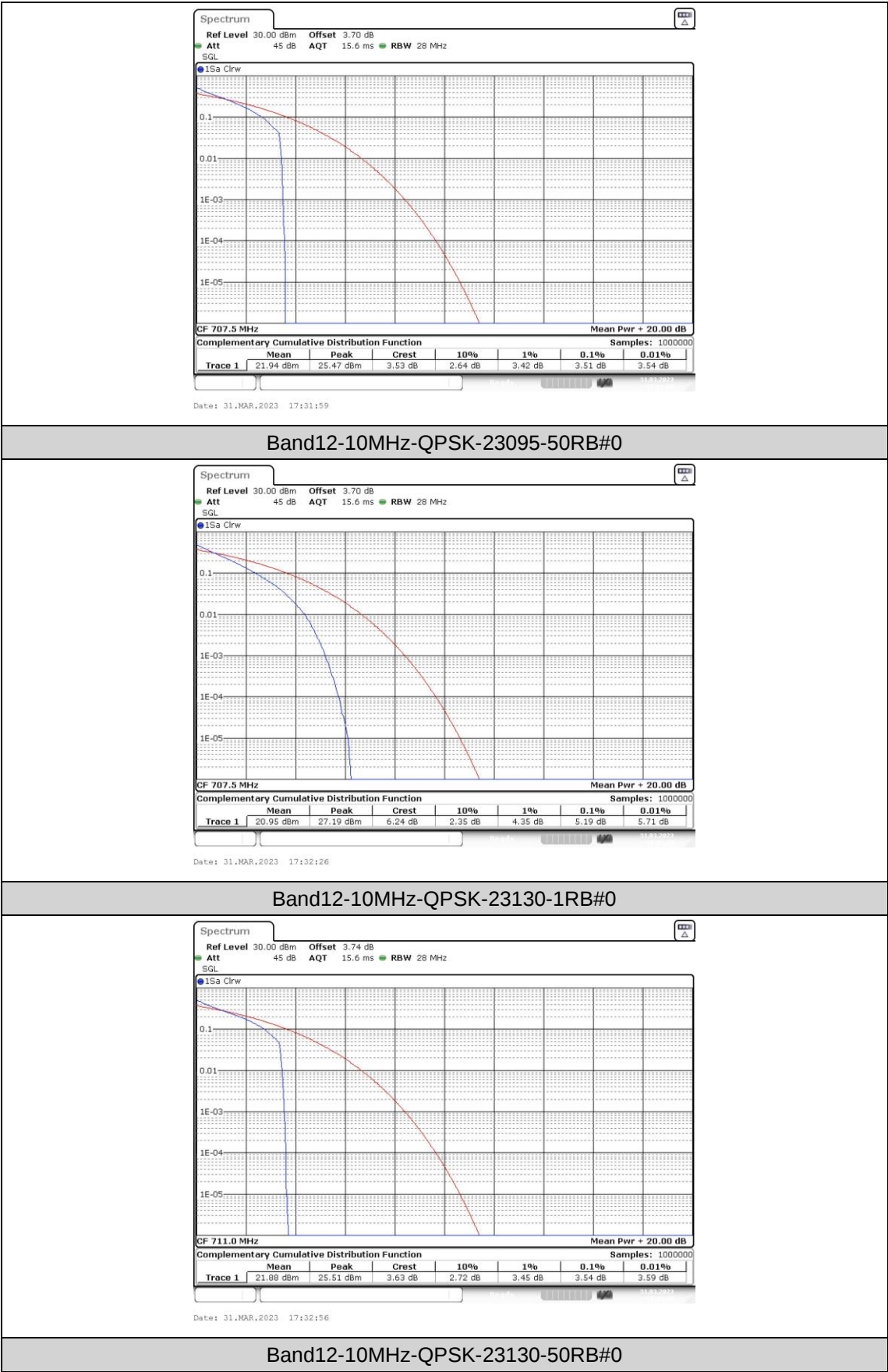
Band12-10MHz-QPSK-23060-1RB#0

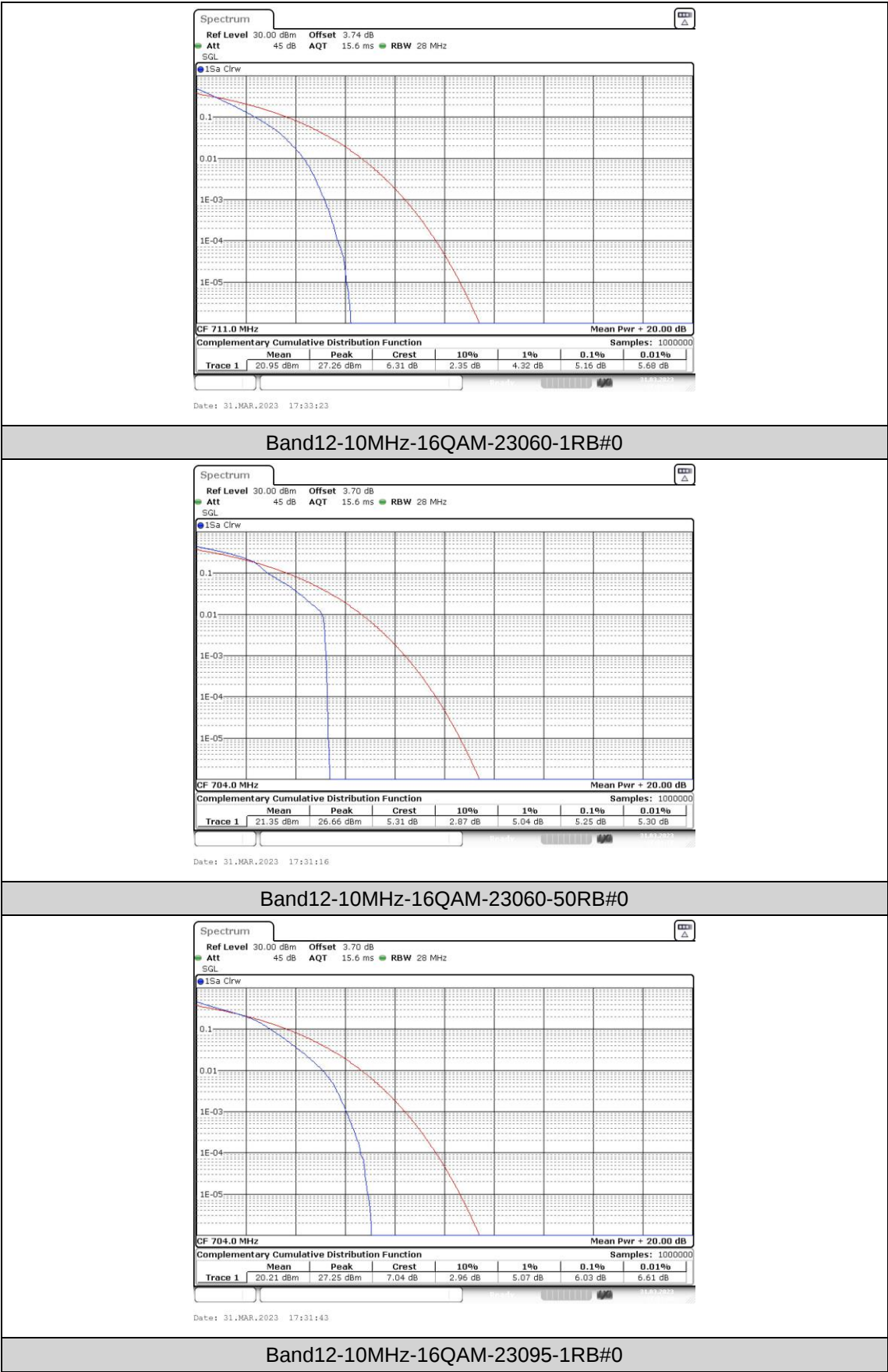


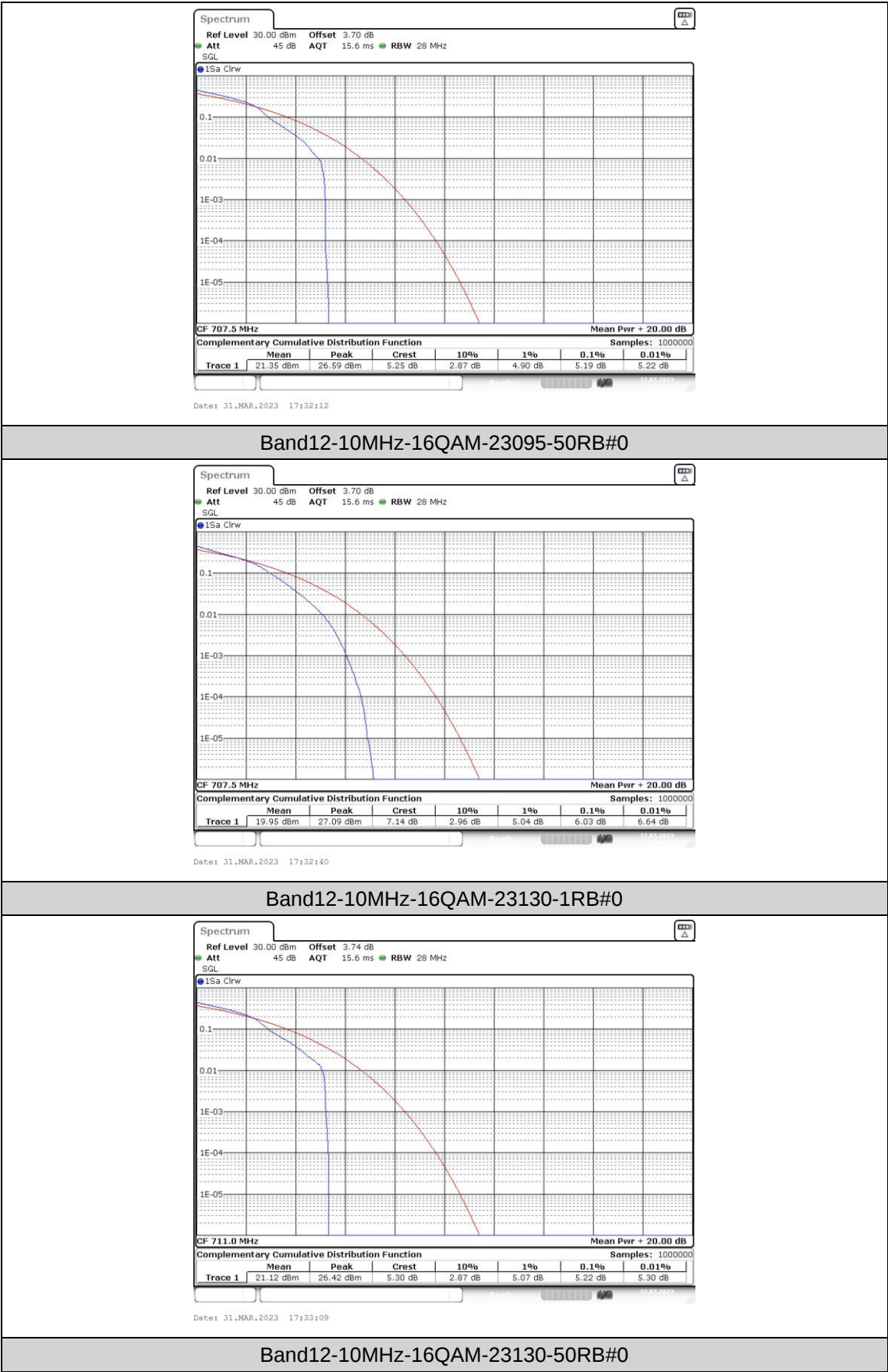
Band12-10MHz-QPSK-23060-50RB#0



Band12-10MHz-QPSK-23095-1RB#0







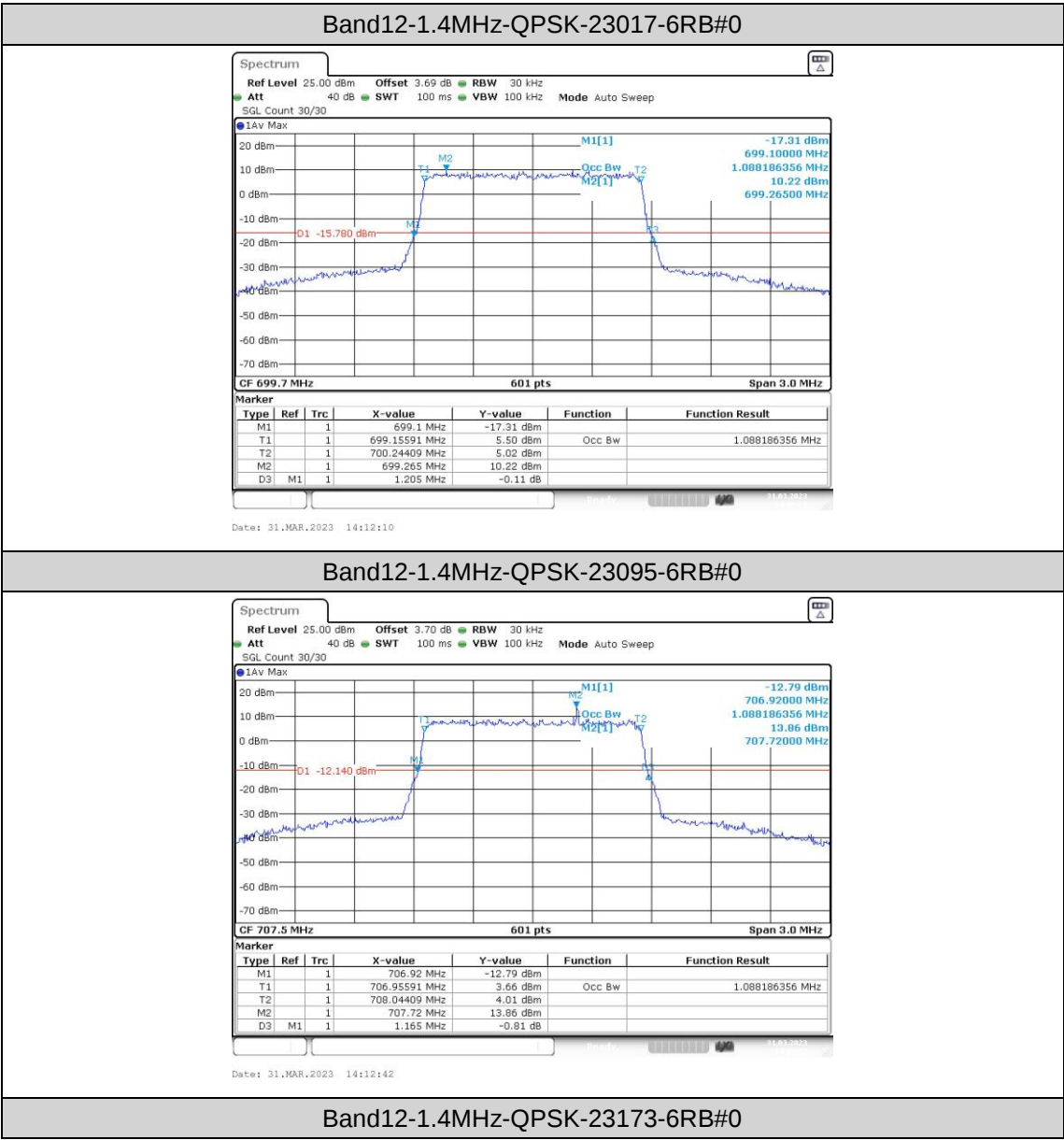


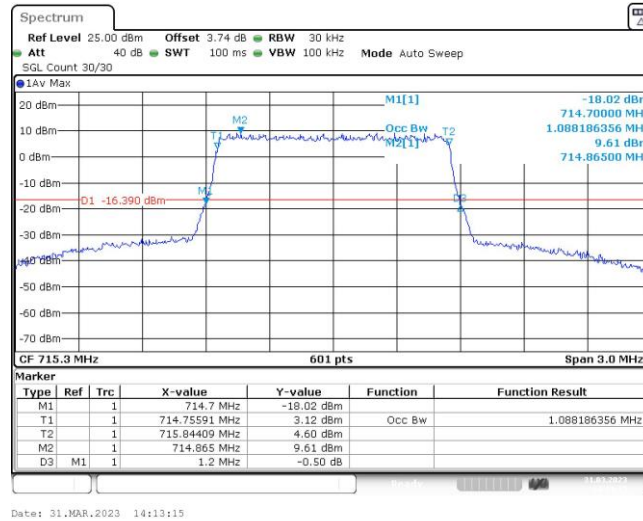
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

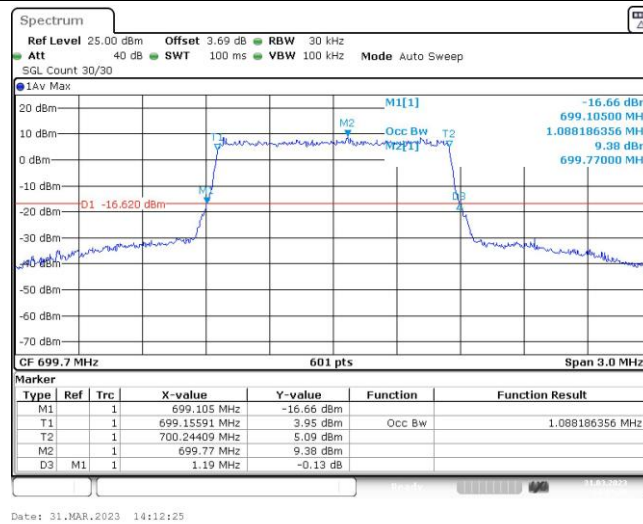
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.088	1.21	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.088	1.17	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.088	1.20	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.088	1.19	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.088	1.22	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.088	1.19	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.696	2.85	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.696	2.88	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.696	2.84	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.696	2.86	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.686	2.88	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.696	2.87	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.496	4.78	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.505	4.78	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.505	4.78	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.505	4.78	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.496	4.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.505	4.78	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.985	9.53	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.985	9.53	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.952	9.53	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.985	9.53	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.952	9.53	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.952	9.53	PASS

Test Graphs

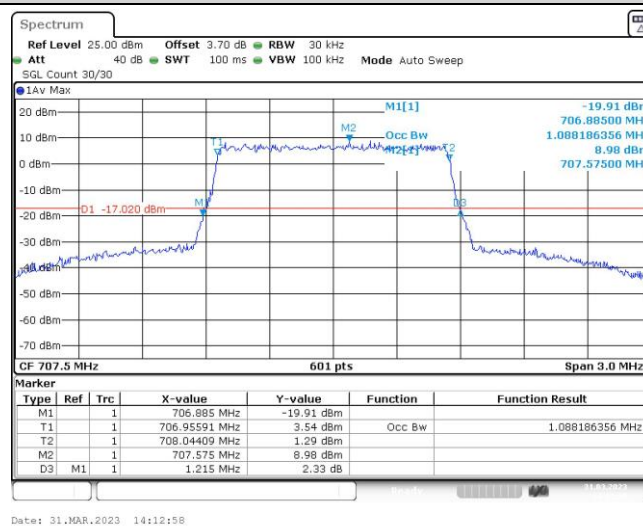




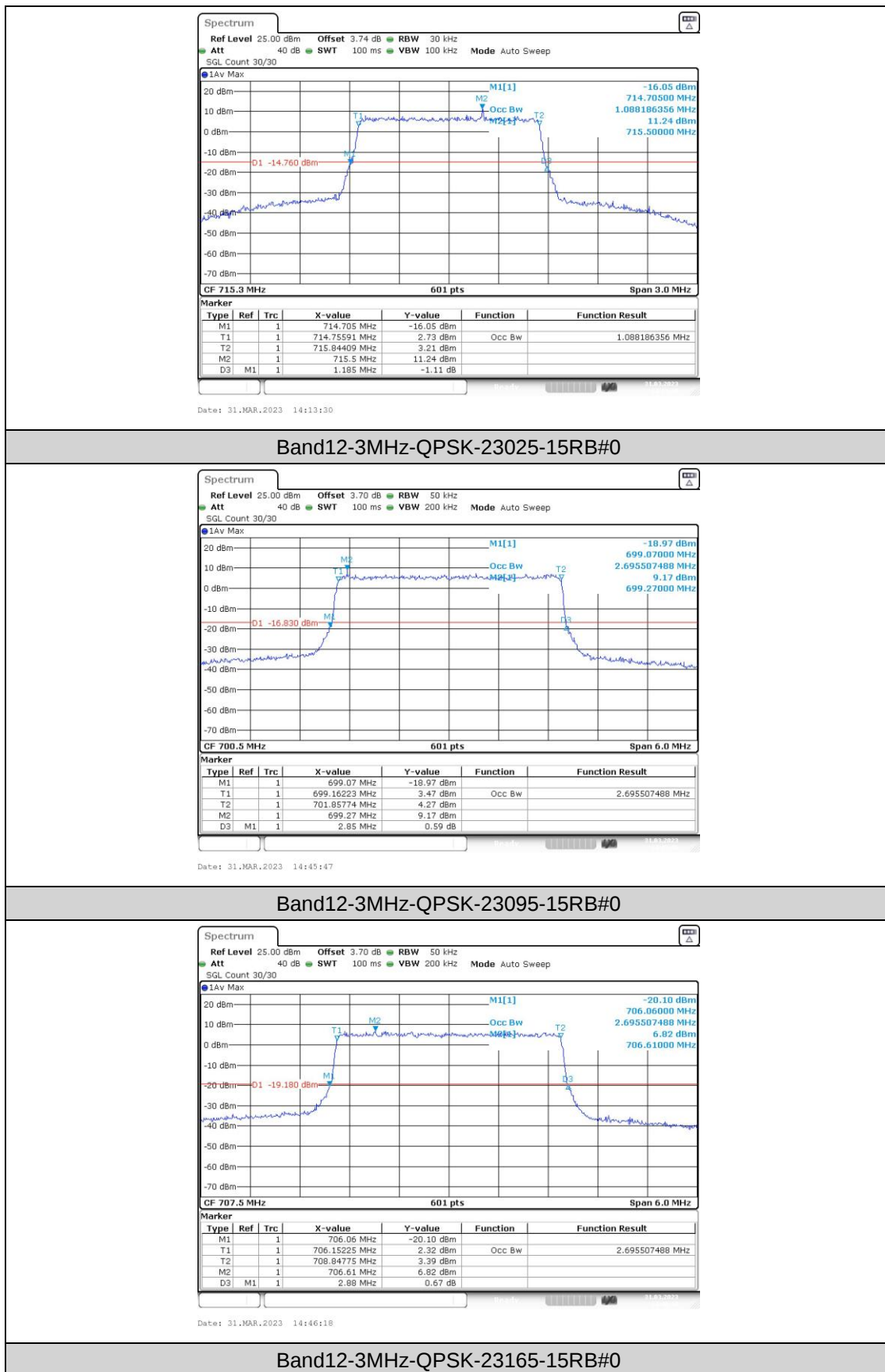
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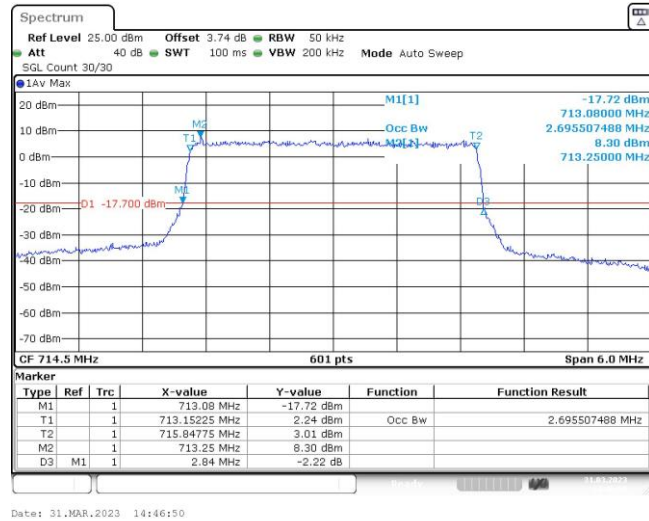


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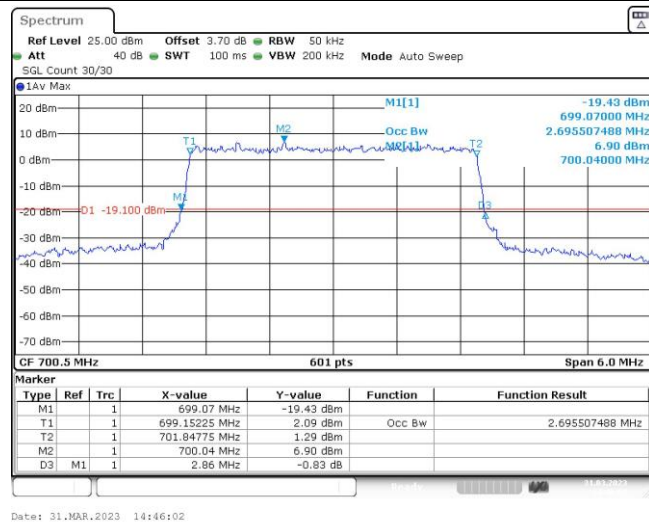


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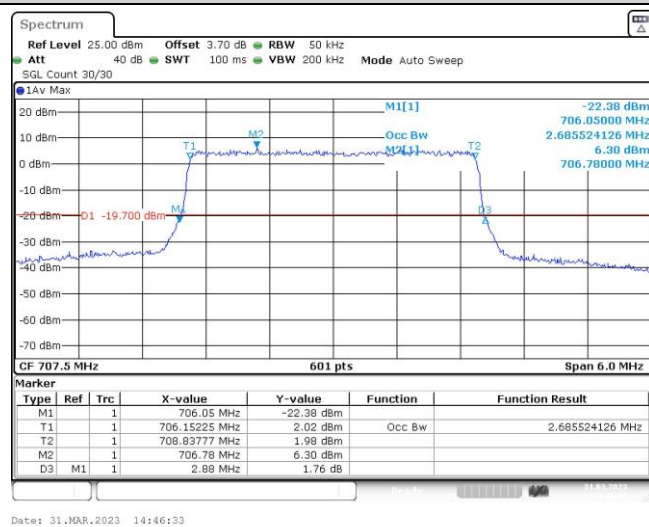




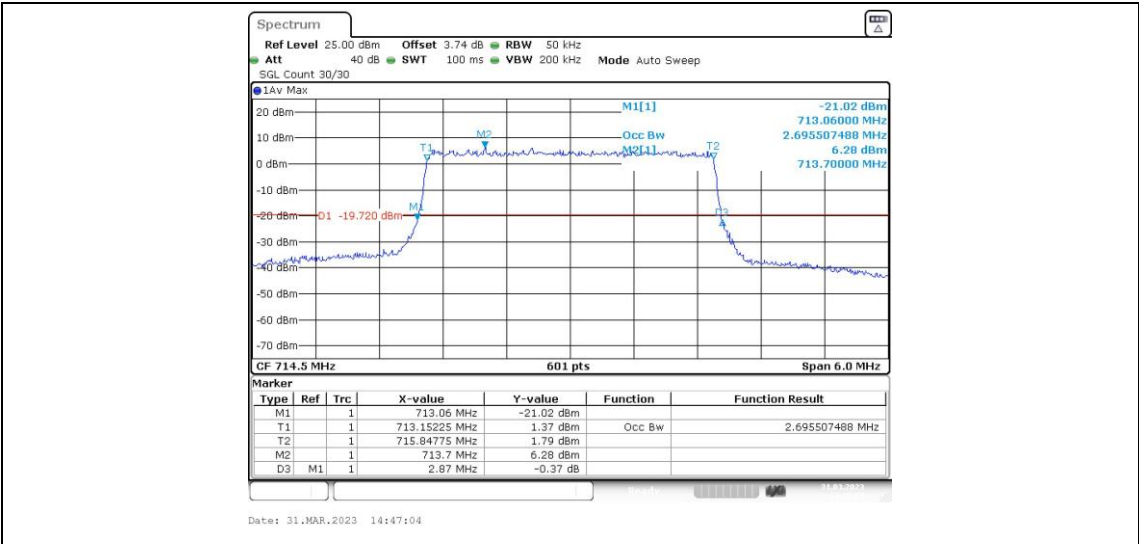
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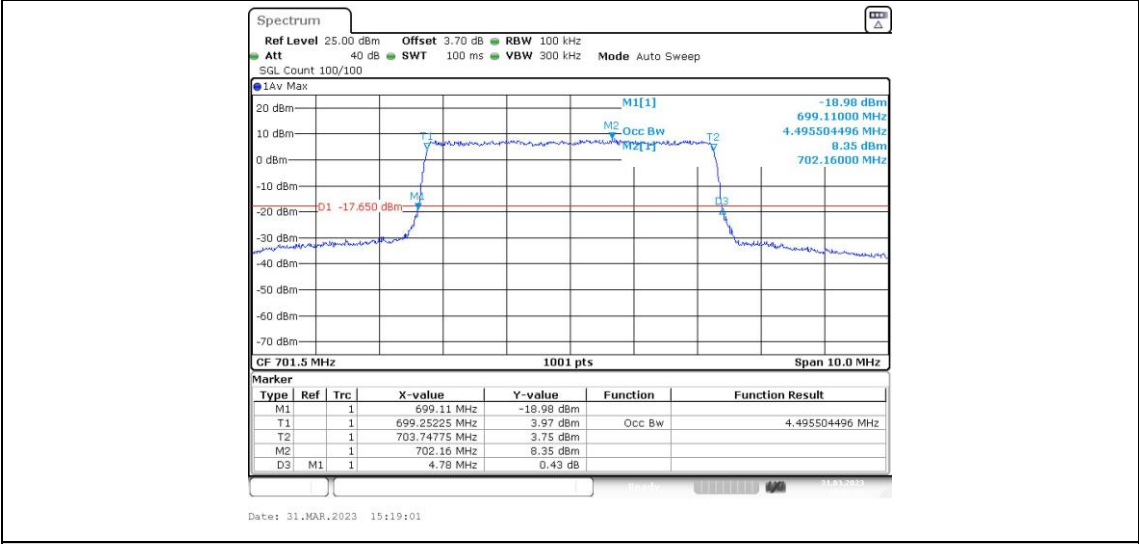
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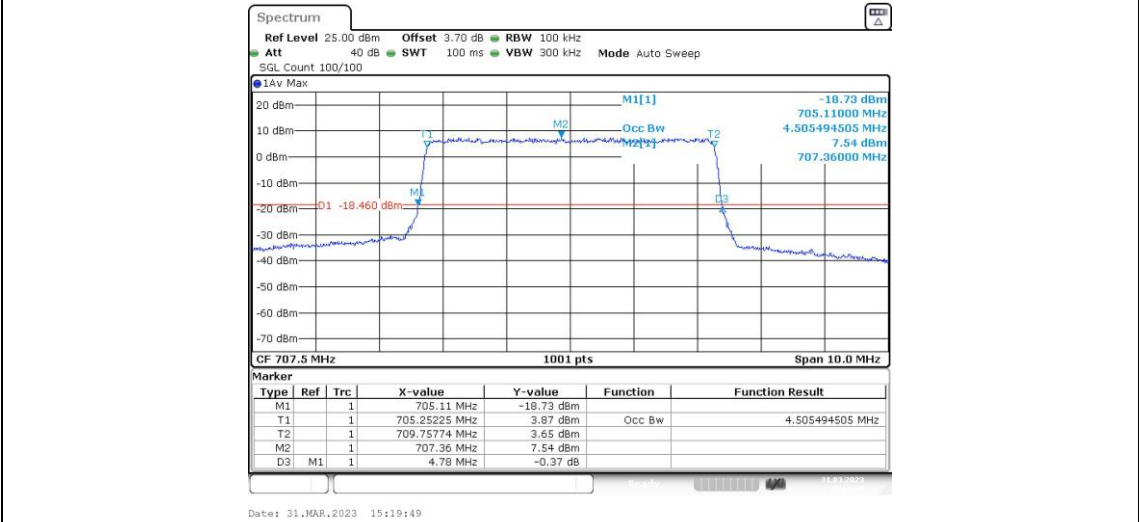
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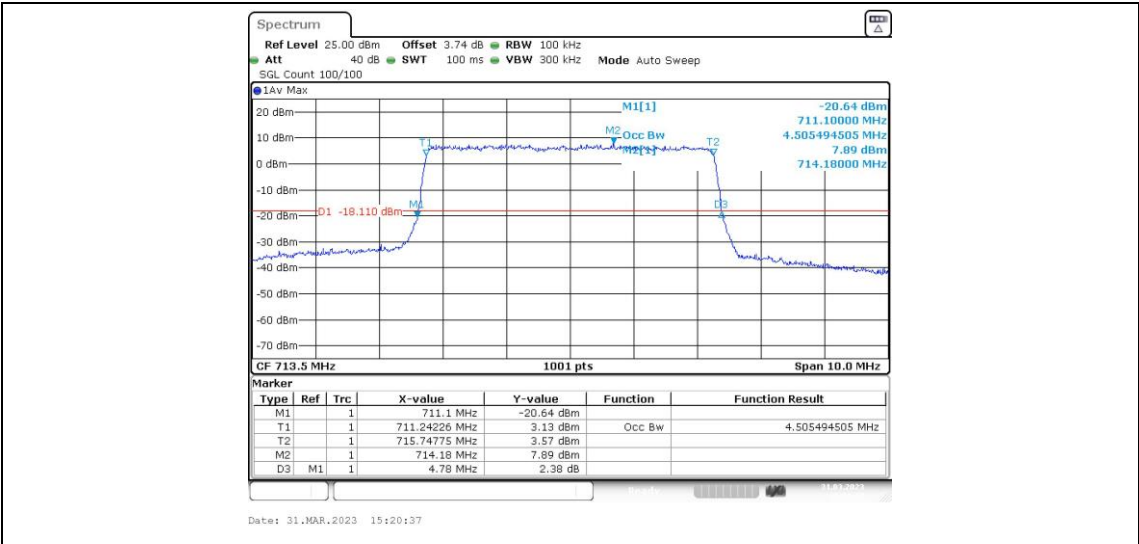
Band12-5MHz-QPSK-23035-25RB#0



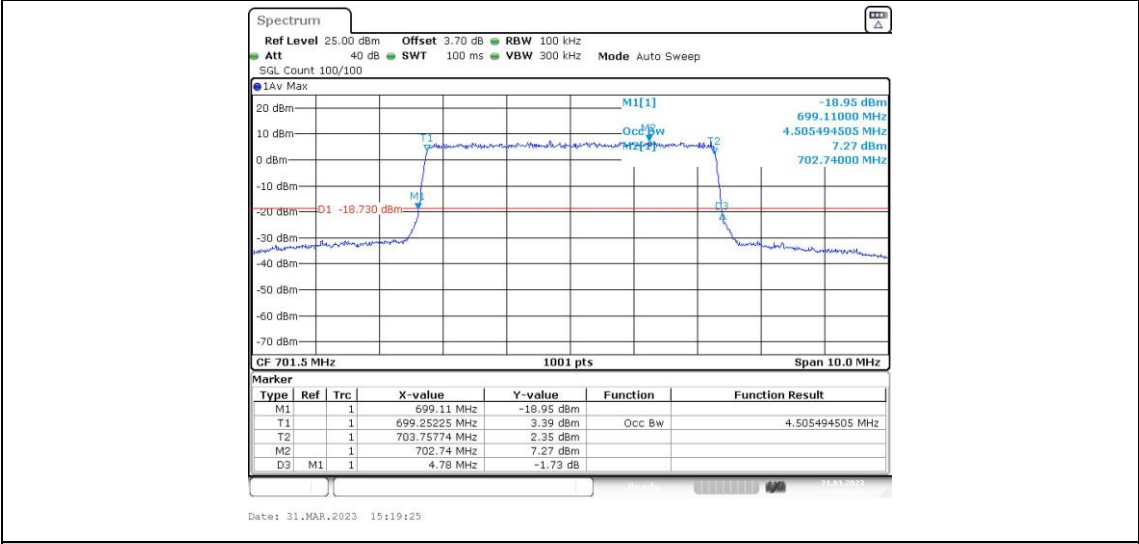
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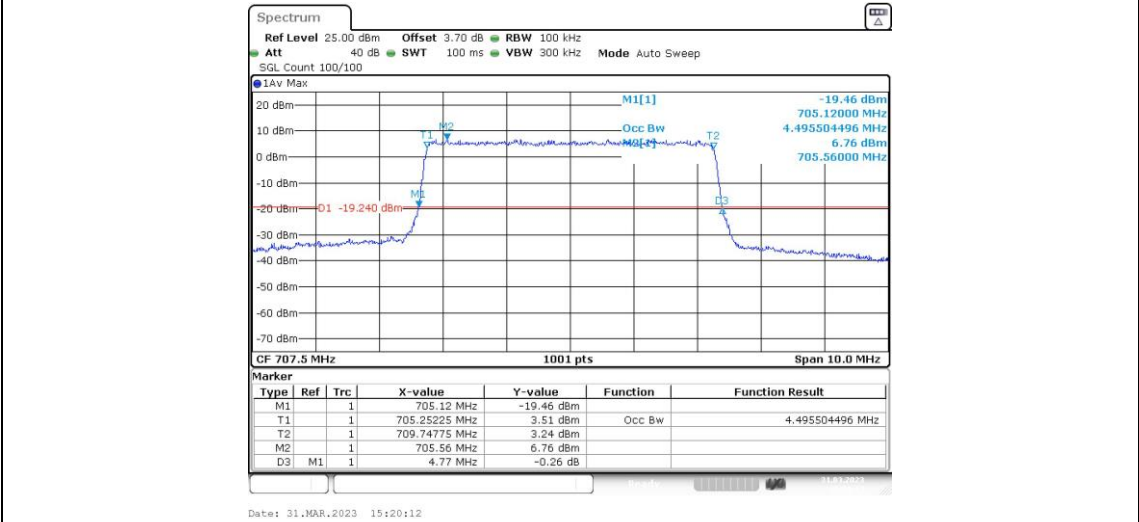
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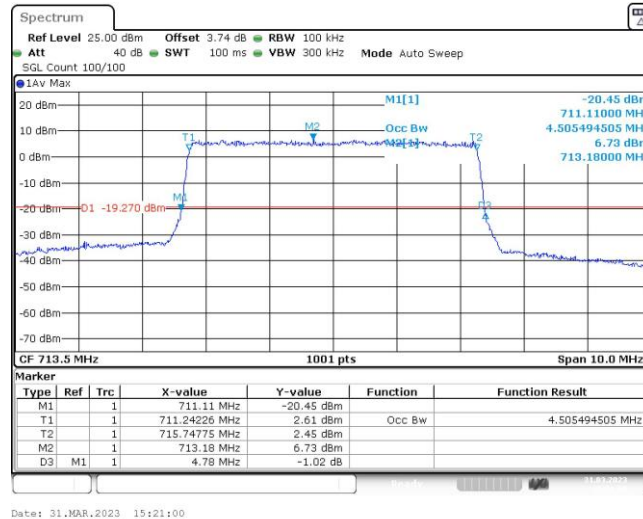
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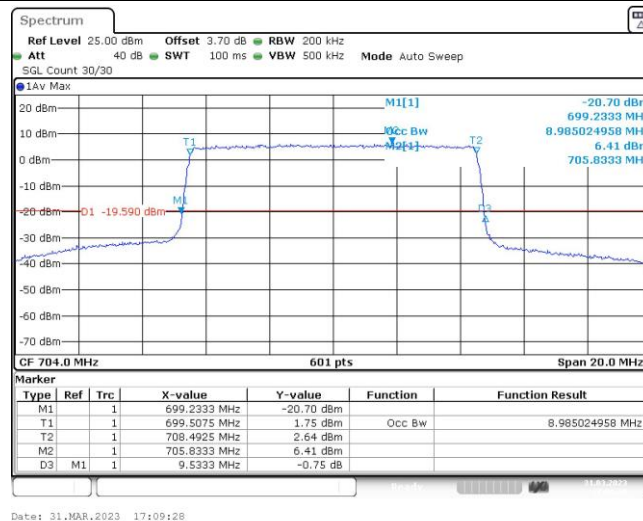
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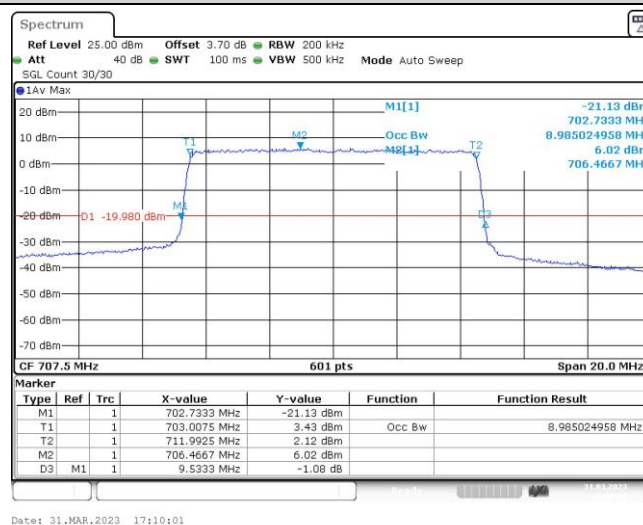
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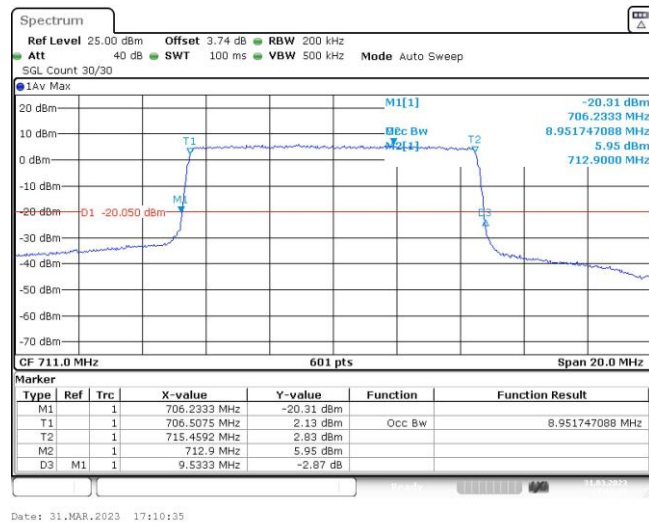
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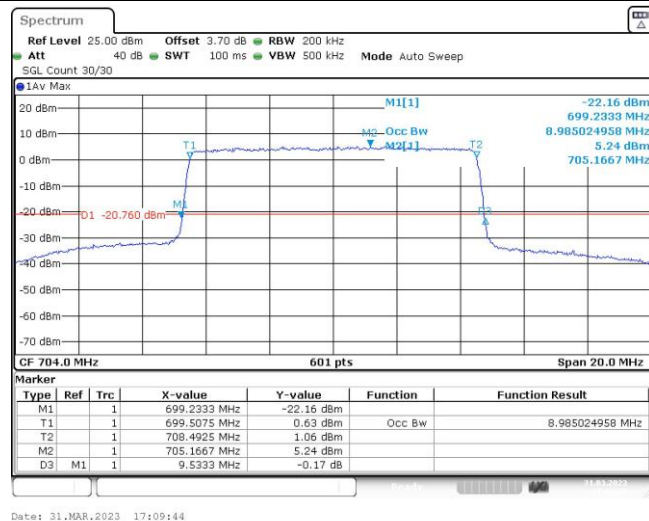
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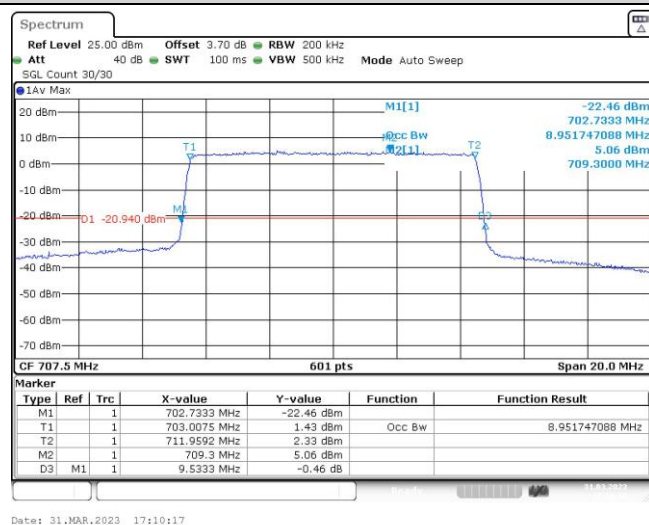
Band12-10MHz-QPSK-23130-50RB#0



Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23095-50RB#0



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