

## **Appendix for LTE BAND 12**

Product Name: CSX8

Model No: LGT-08QA-2301

## Appendix A: Average Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.05	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.17	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.95	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.05	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.04	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.00	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.14	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.17	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.20	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.15	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.33	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.18	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.18	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.24	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.21	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.27	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.10	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.17	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.17	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.16	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.19	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.29	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.33	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.19	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.00	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.06	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.97	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.20	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.39	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.26	PASS

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Band12	1.4MHz	16QAM	23095	1RB#5	22.30	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.20	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.18	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.17	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.25	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.37	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.47	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.37	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.18	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.23	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.16	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.15	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.07	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.13	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.04	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.25	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.25	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.20	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.23	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.29	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.21	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.30	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.30	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.34	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.36	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.31	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.34	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.29	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.24	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.47	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.36	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.31	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.36	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.48	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.43	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.26	PASS

Band12	3MHz	16QAM	23025	8RB#0	21.38	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.36	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.25	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.23	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.58	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.53	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.52	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.34	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.28	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.40	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.28	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.24	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.38	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.12	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.44	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.43	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.36	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.30	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.09	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.19	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.15	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.21	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.20	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.25	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.19	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.28	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.44	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.39	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.29	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.29	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.38	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.28	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.44	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.37	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.11	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.42	PASS

Band12	5MHz	QPSK	23155	12RB#6	22.39	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.34	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.35	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.19	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.48	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.37	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.27	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.21	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.20	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.22	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.58	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.60	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.61	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.35	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.37	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.41	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.30	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.38	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.41	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.26	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.43	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.45	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.36	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.41	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.09	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.16	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.23	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.25	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.24	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.26	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.34	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.19	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.20	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.25	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.33	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.33	PASS

Band12	10MHz	QPSK	23095	25RB#25	22.38	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.31	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.46	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.31	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.21	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.37	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.40	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.41	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.38	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.52	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.47	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.58	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.27	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.27	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.32	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.28	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.43	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.52	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.46	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.33	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.33	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.42	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.35	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.32	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.33	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.31	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.41	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.43	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.48	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.38	PASS

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

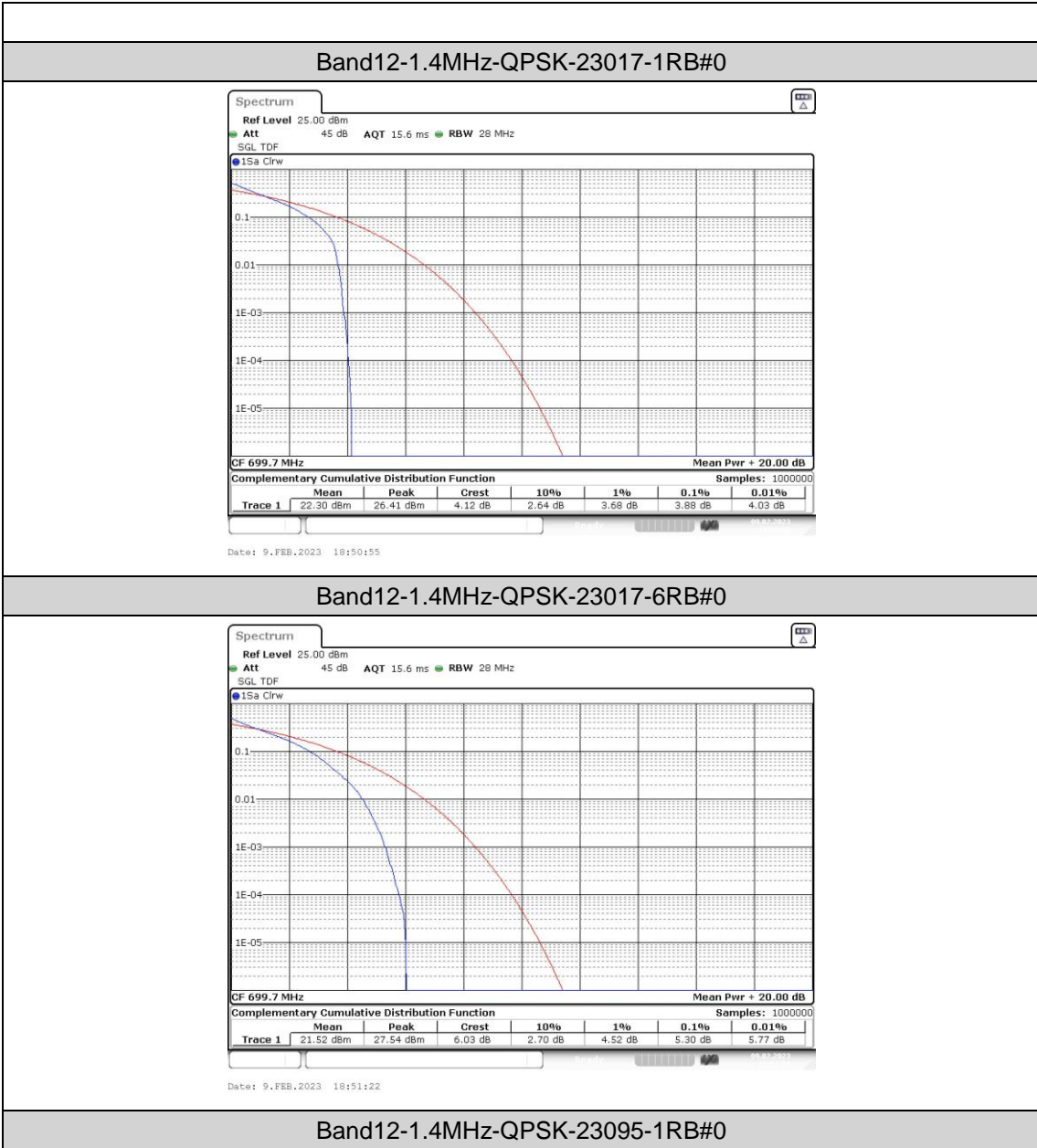
### Test Result

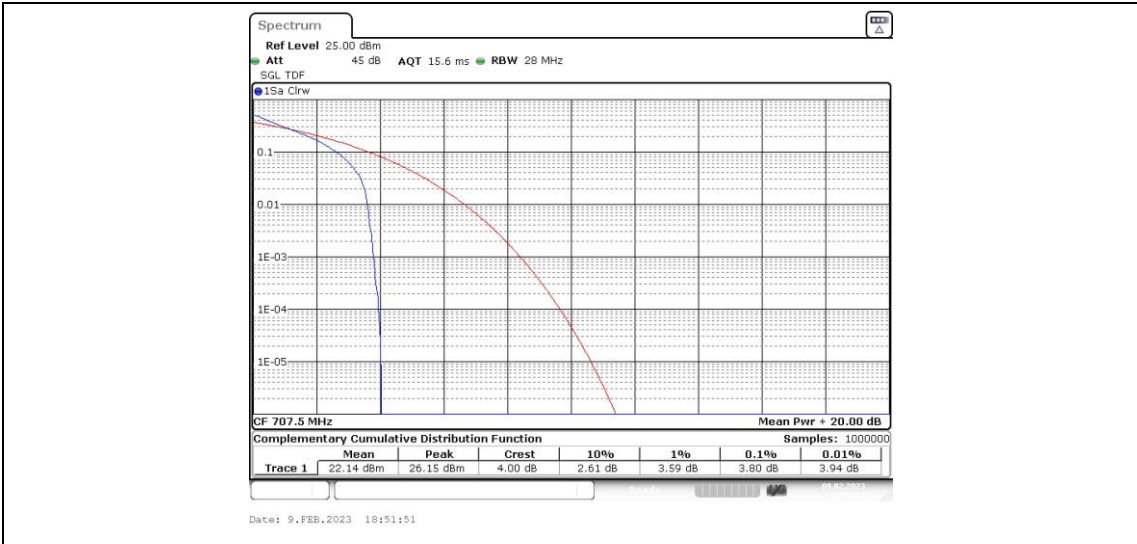
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	3.88	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.30	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	3.80	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.22	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3.91	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.22	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.62	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.12	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.51	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.97	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.59	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	5.22	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	3.51	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.13	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	3.62	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.13	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.39	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.09	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.28	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.97	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.33	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.97	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	3.62	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.30	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	3.57	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.25	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.51	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.09	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.25	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.00	13	PASS

Band12	5MHz	16QAM	23155	1RB#0	5.36	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.00	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	3.54	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.22	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	3.51	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.13	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	3.48	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.10	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.25	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.06	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.28	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.97	13	PASS
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Band12	10MHz	16QAM	23130	50RB#0	5.94	13	PASS

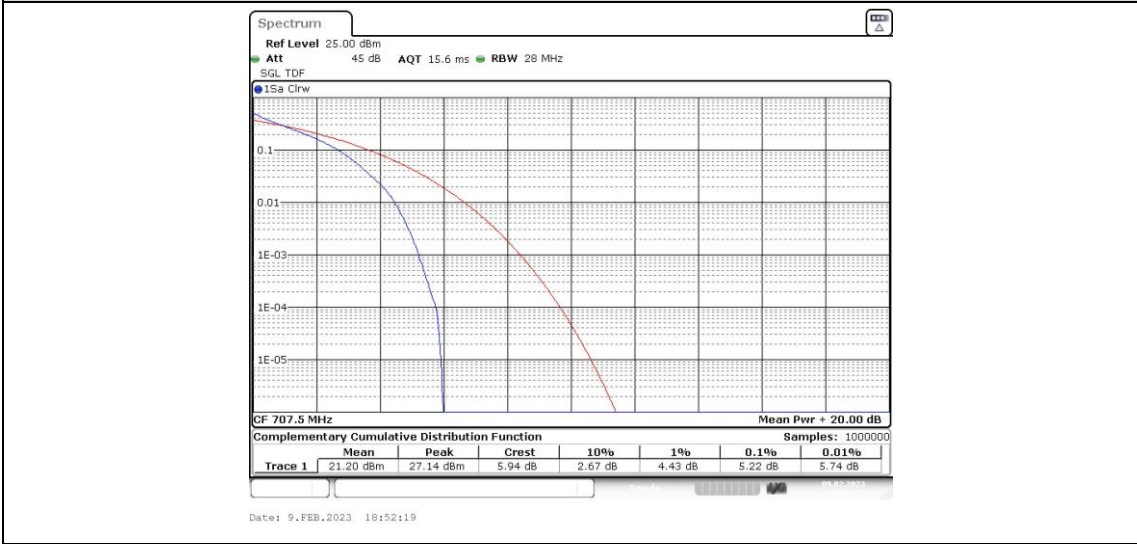


### Test Graphs

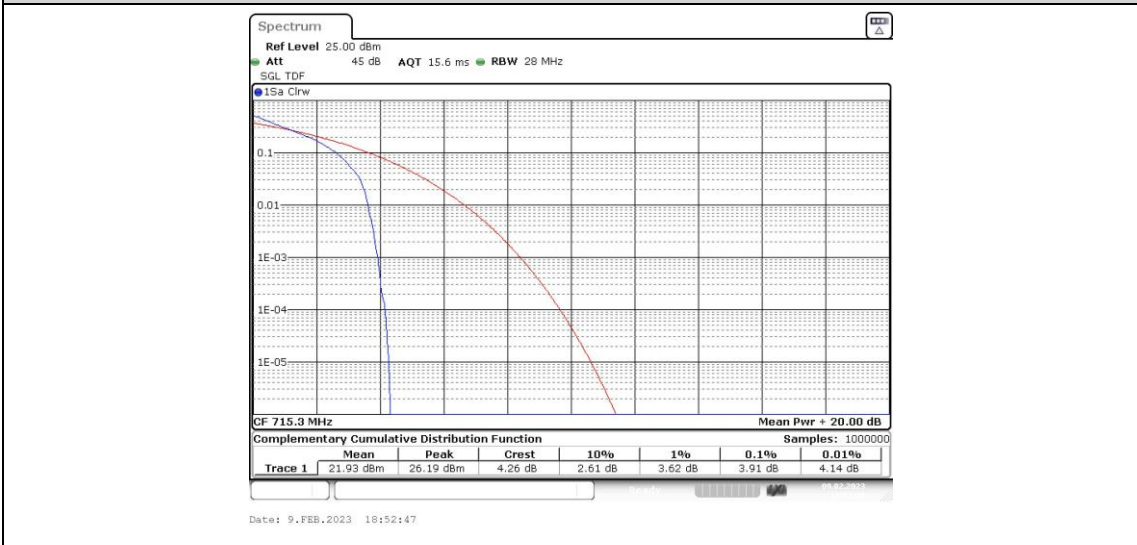




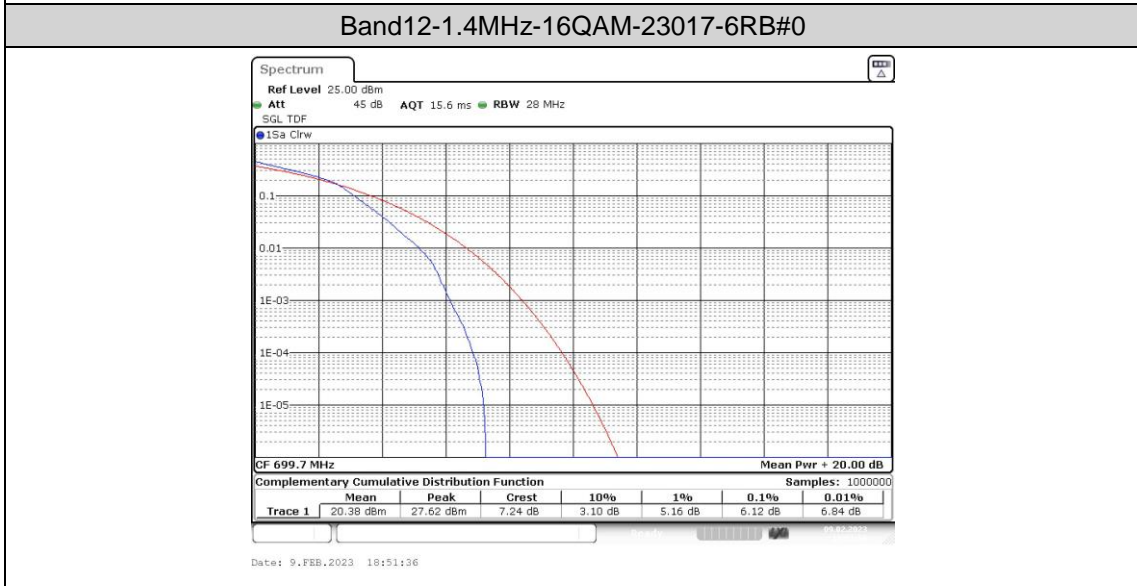
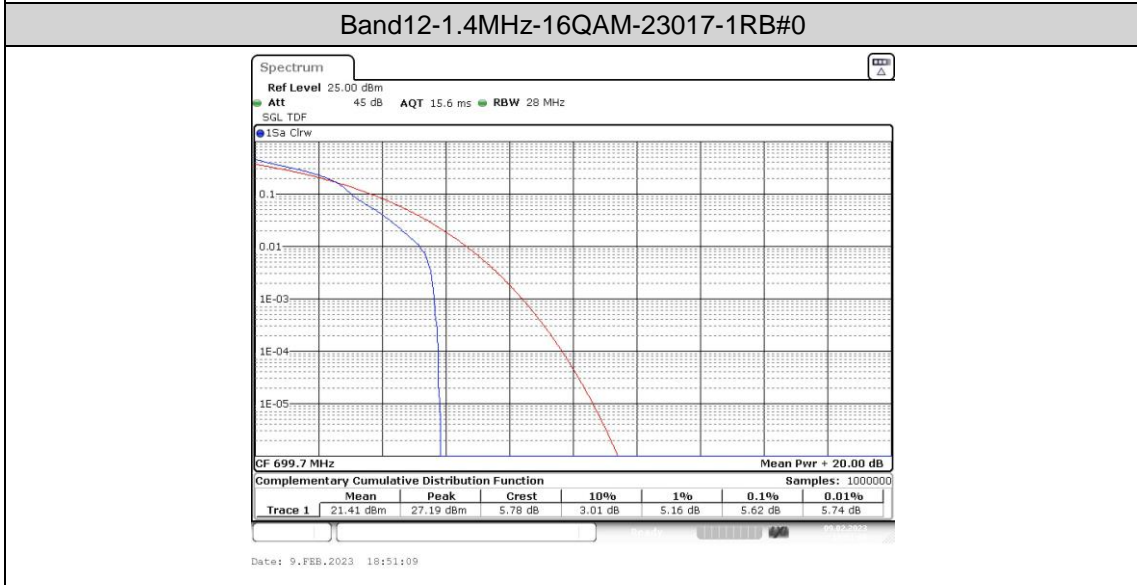
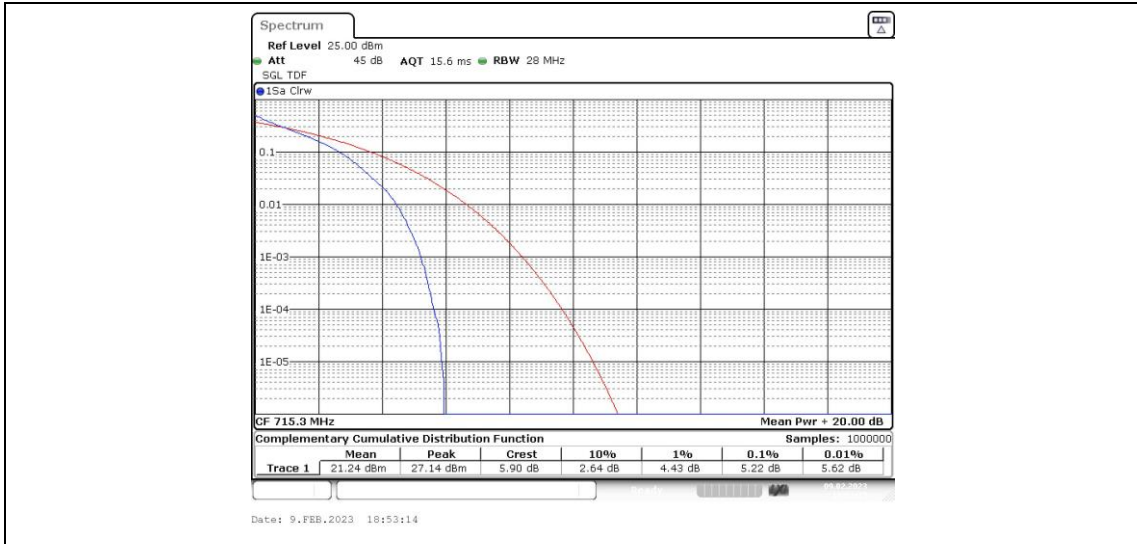
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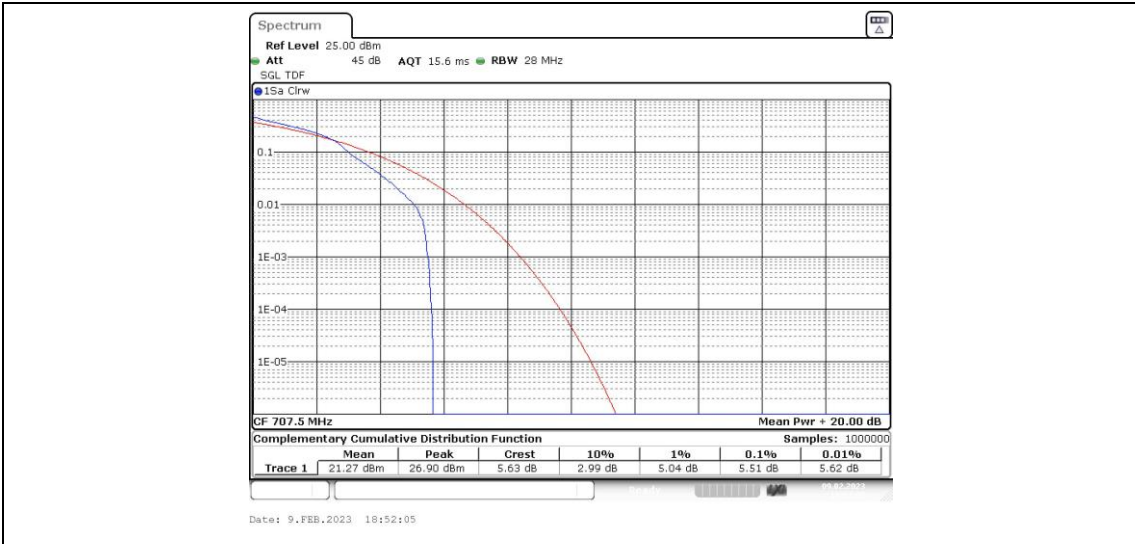


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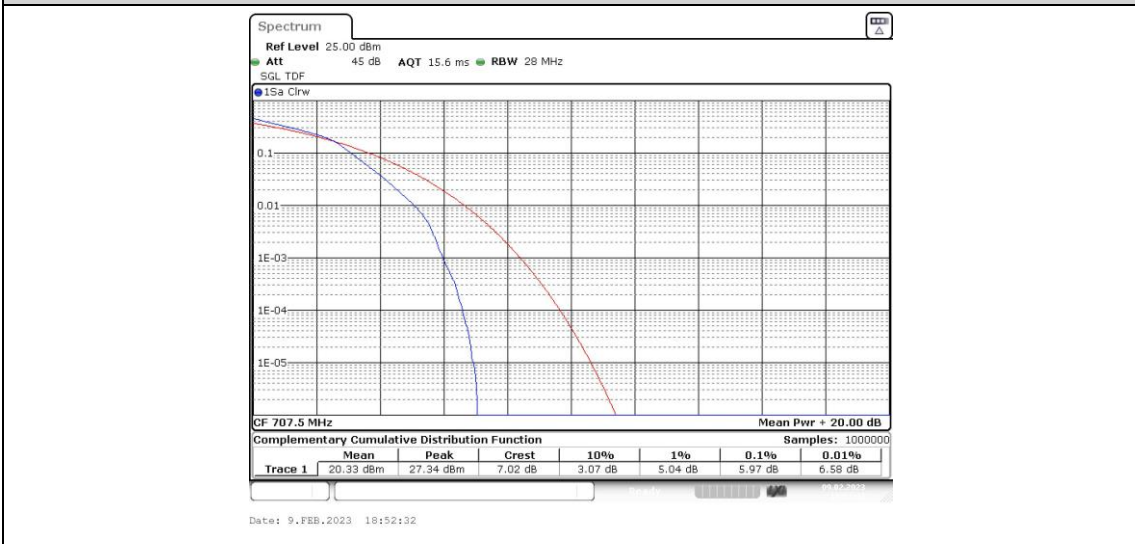


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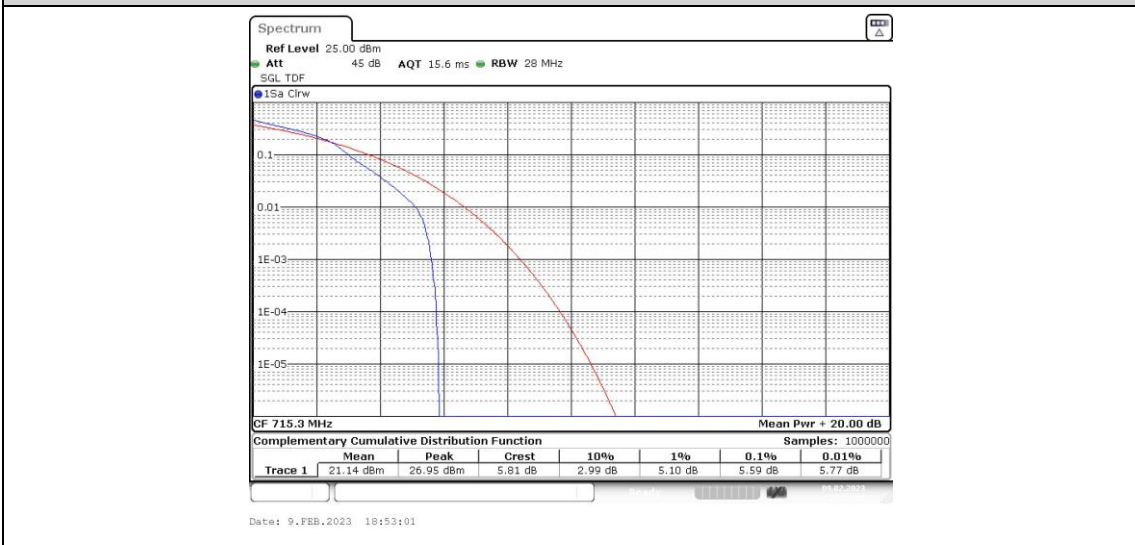




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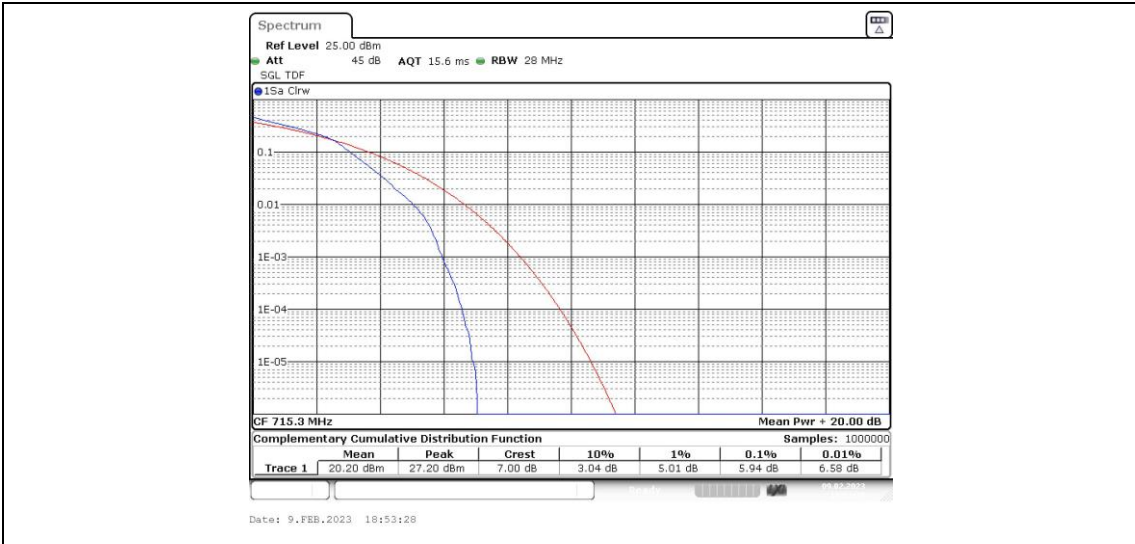


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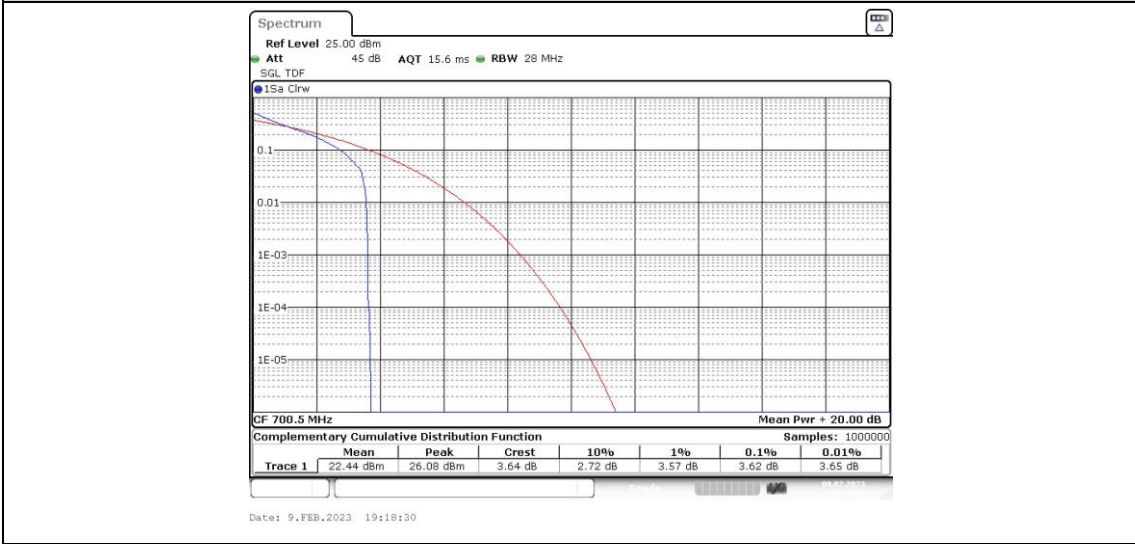


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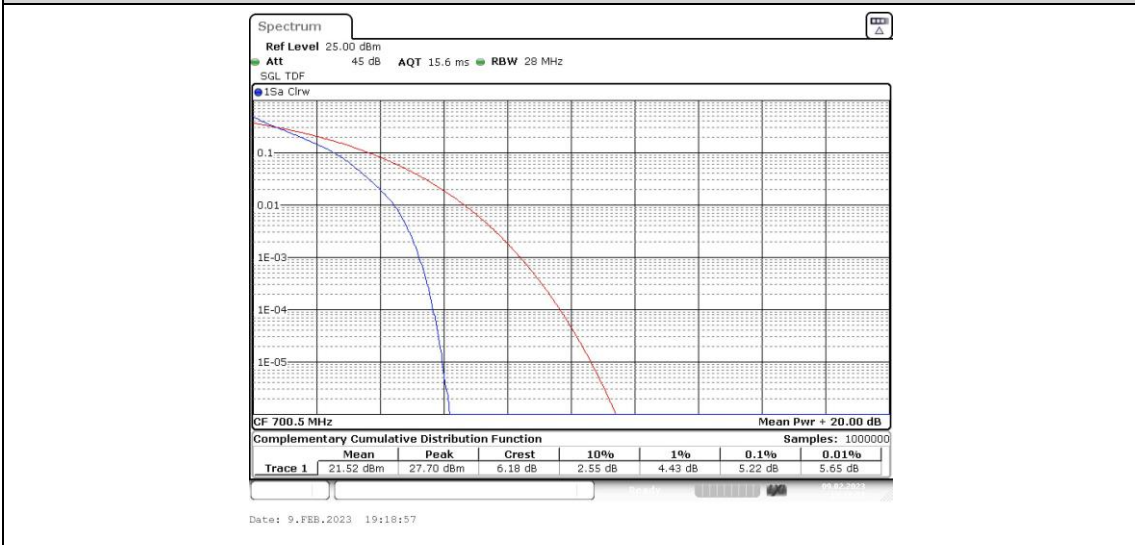




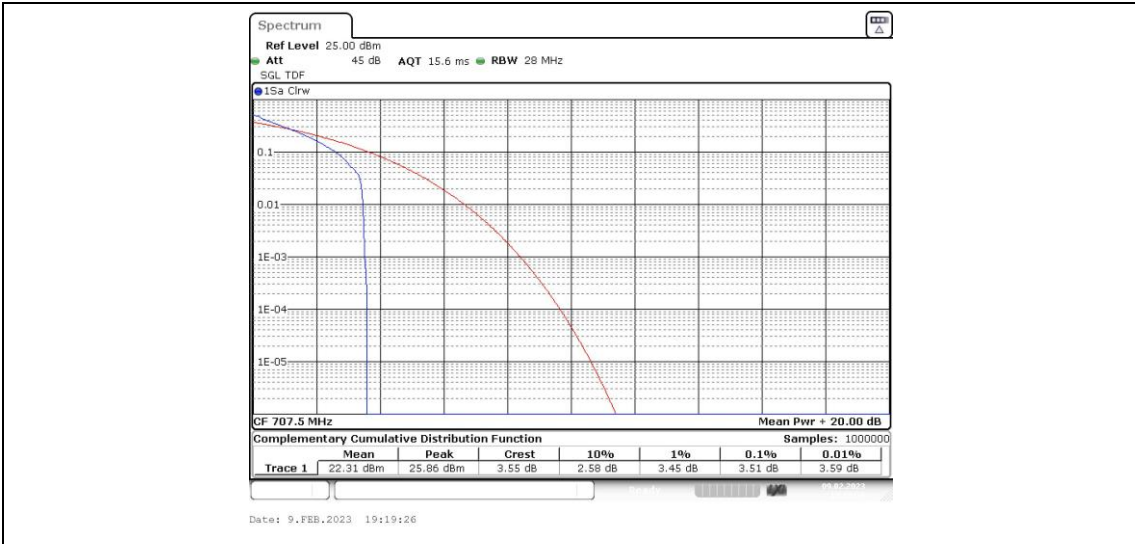
**Band12-3MHz-QPSK-23025-1RB#0**



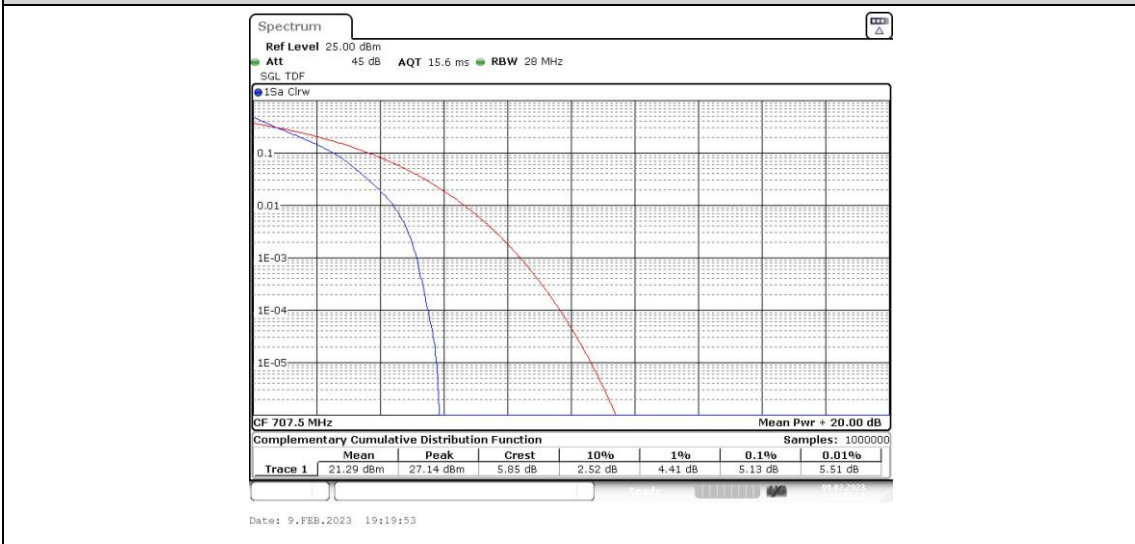
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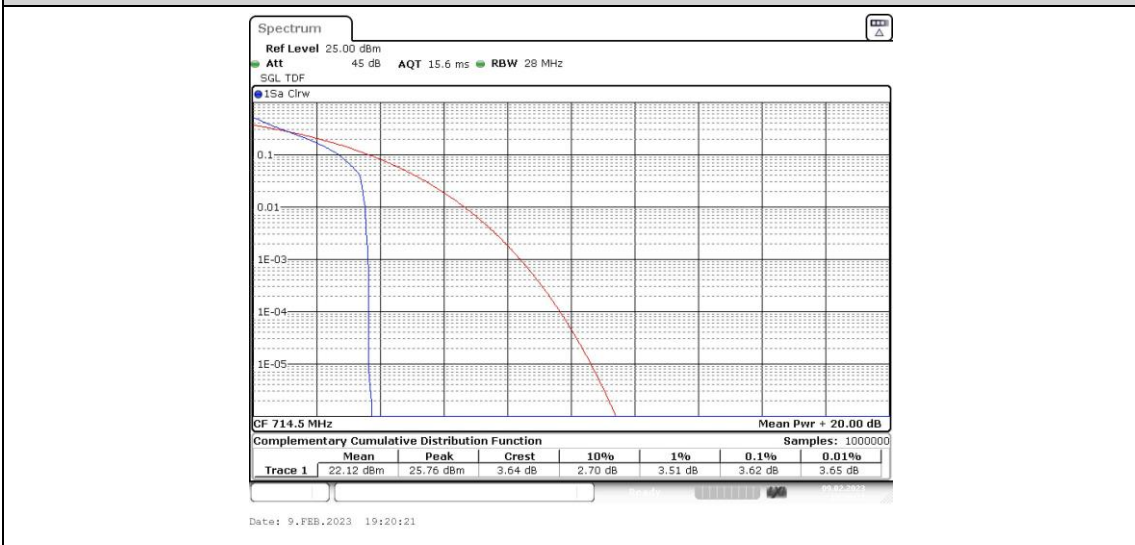
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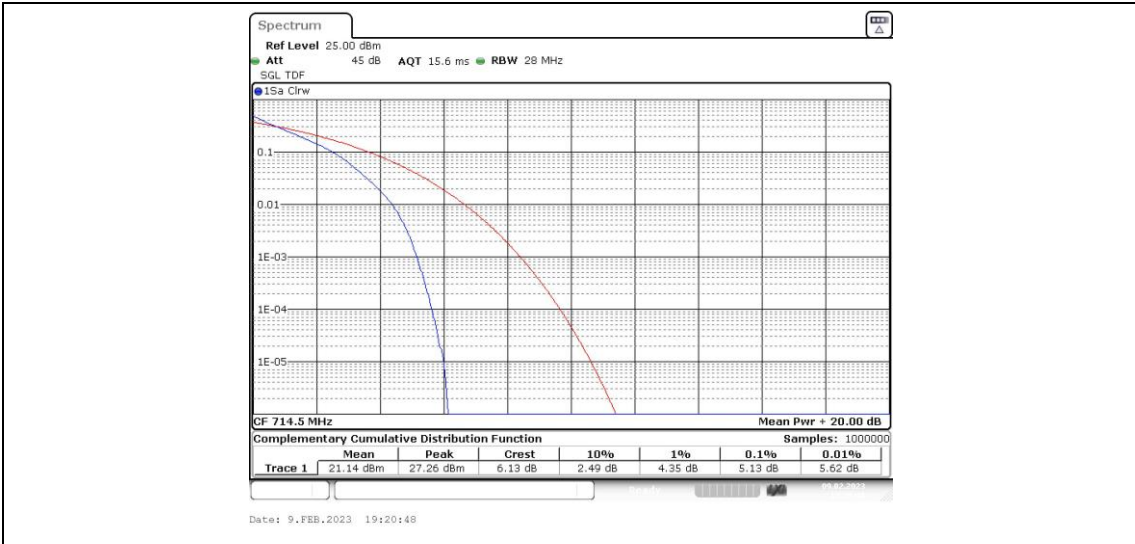
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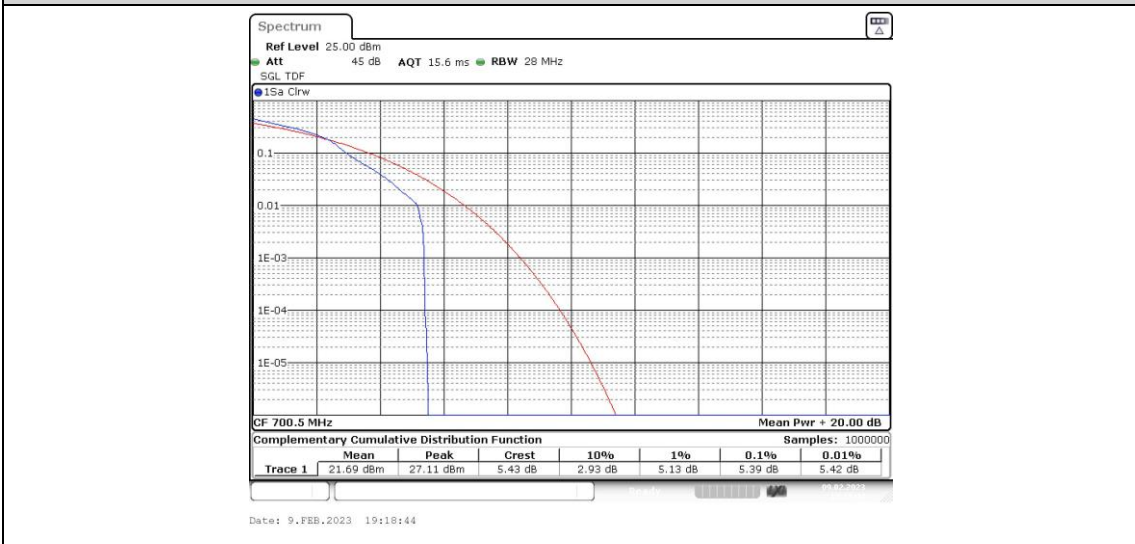
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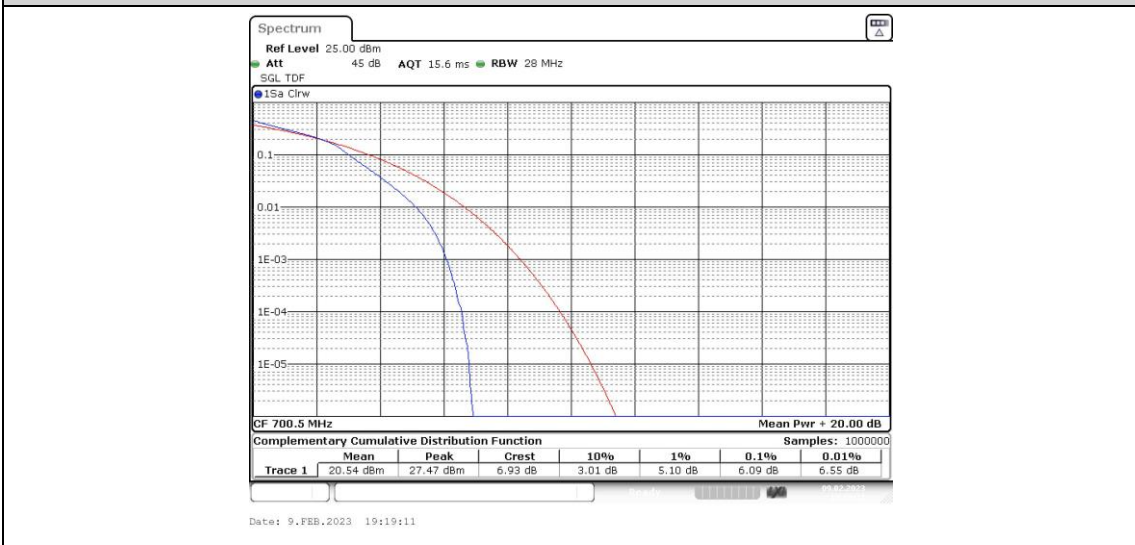
Band12-3MHz-QPSK-23165-15RB#0



Band12-3MHz-16QAM-23025-1RB#0

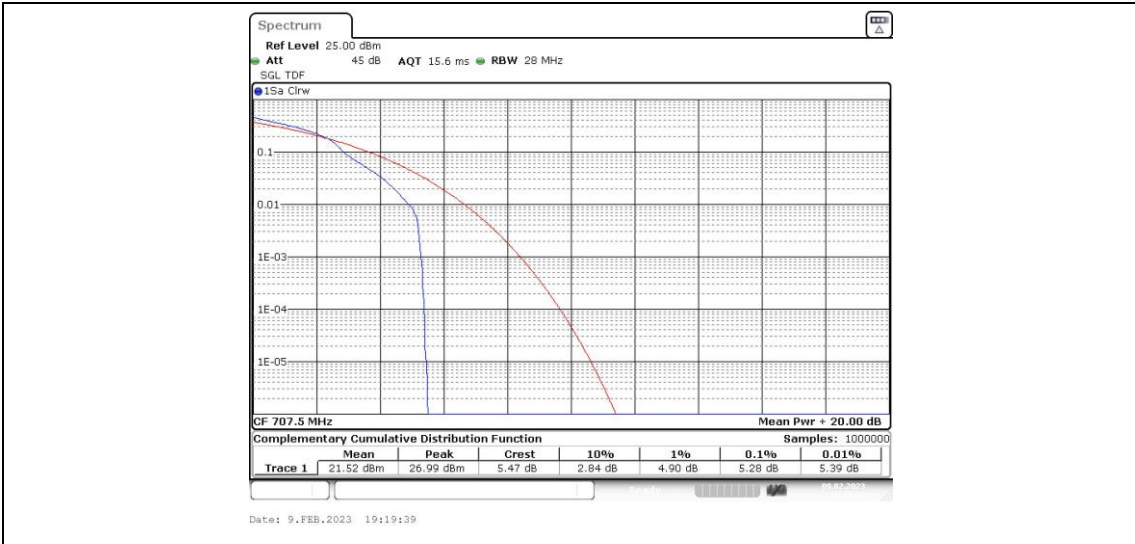


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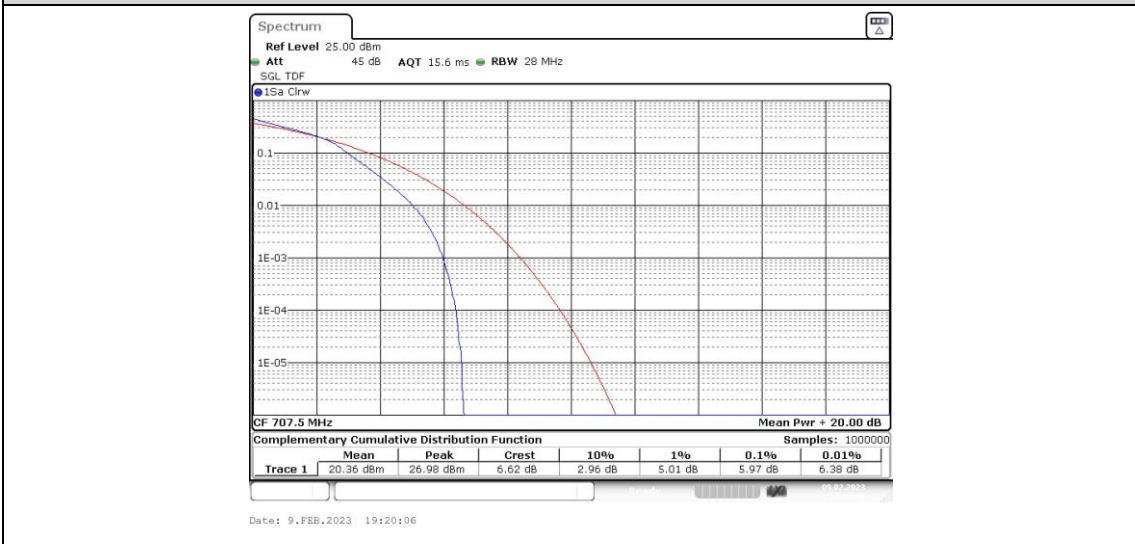


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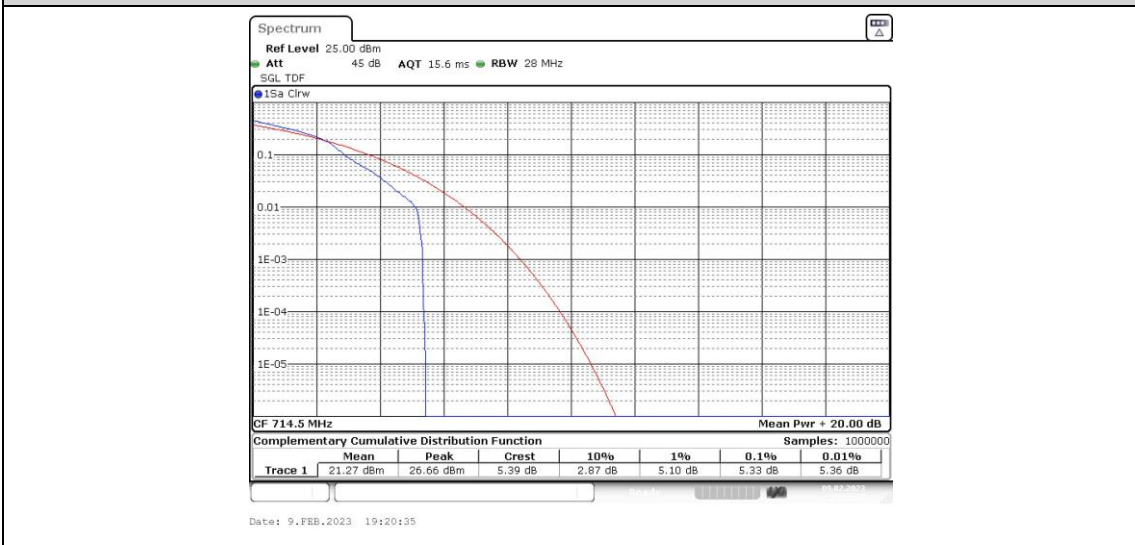




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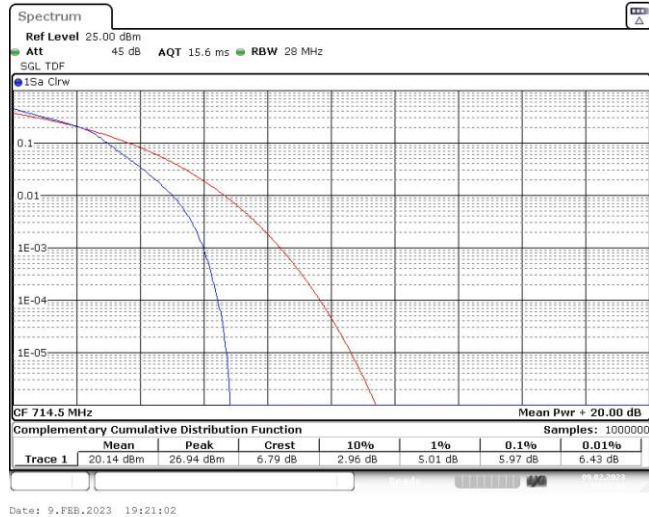


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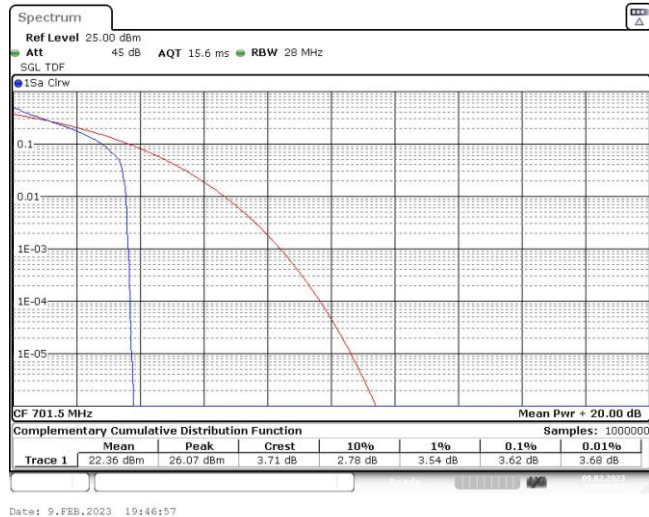
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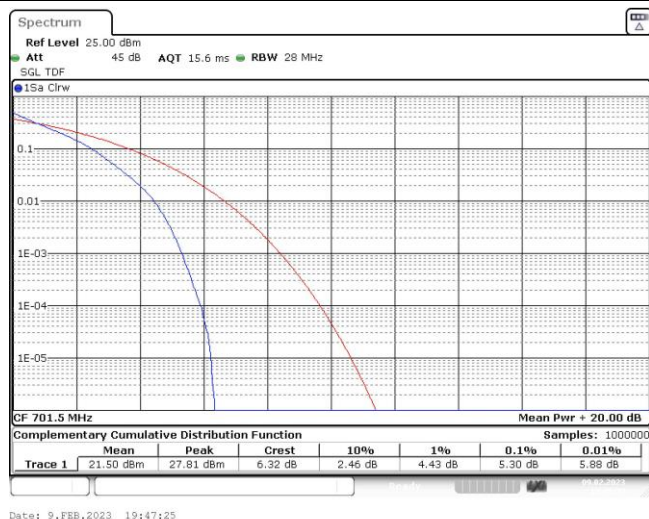
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Band12-5MHz-QPSK-23035-1RB#0



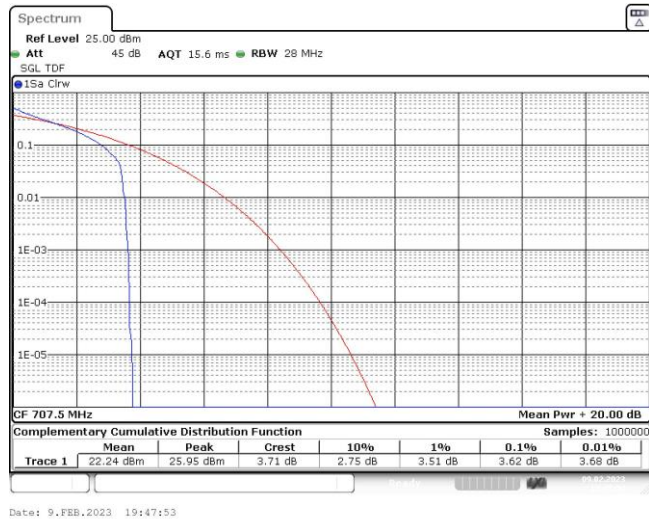
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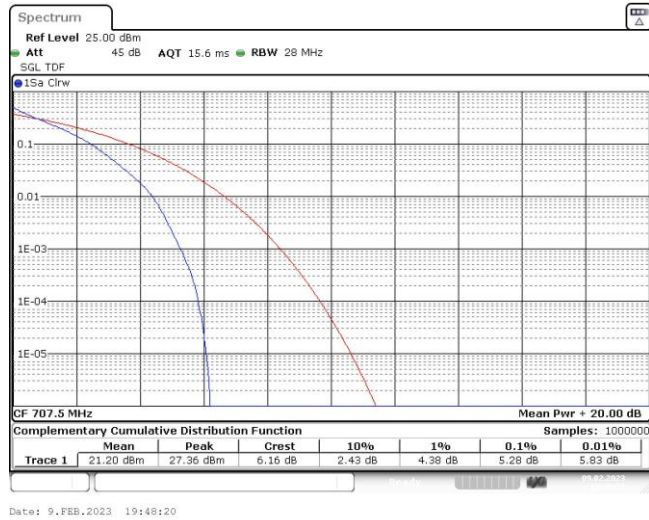


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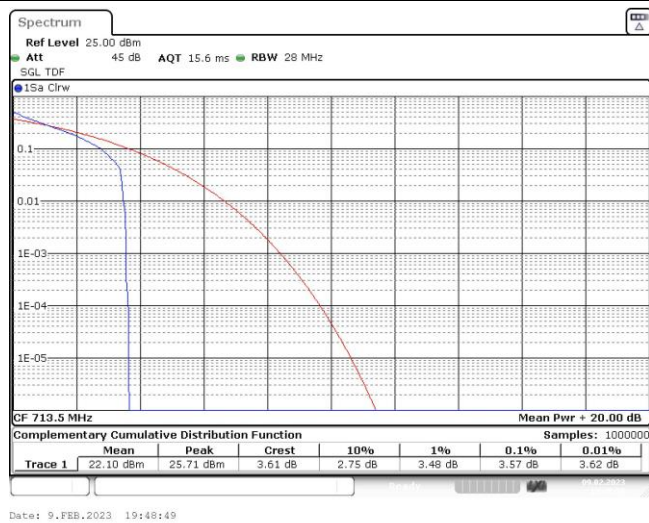
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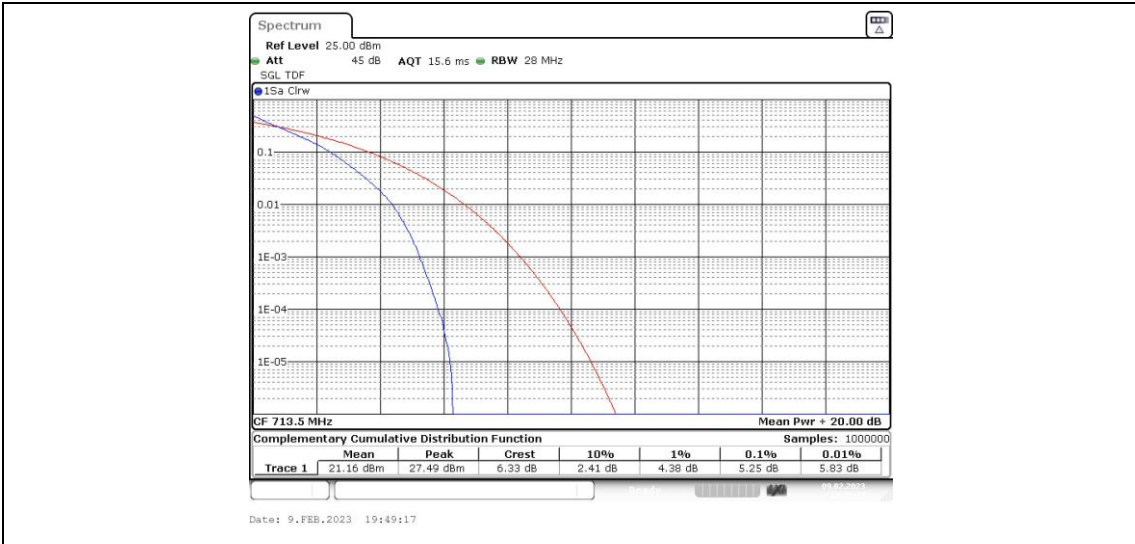
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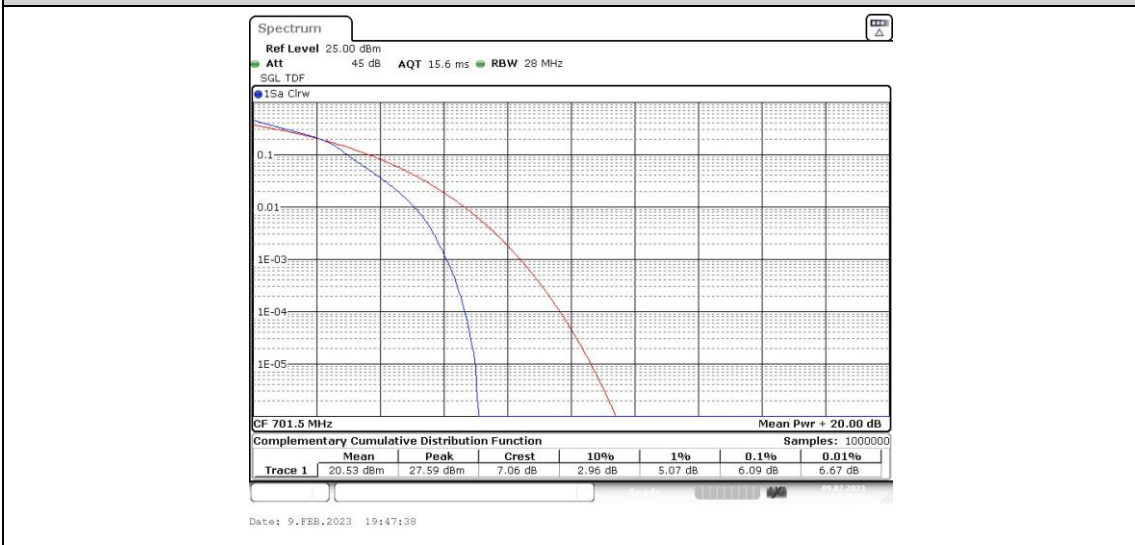
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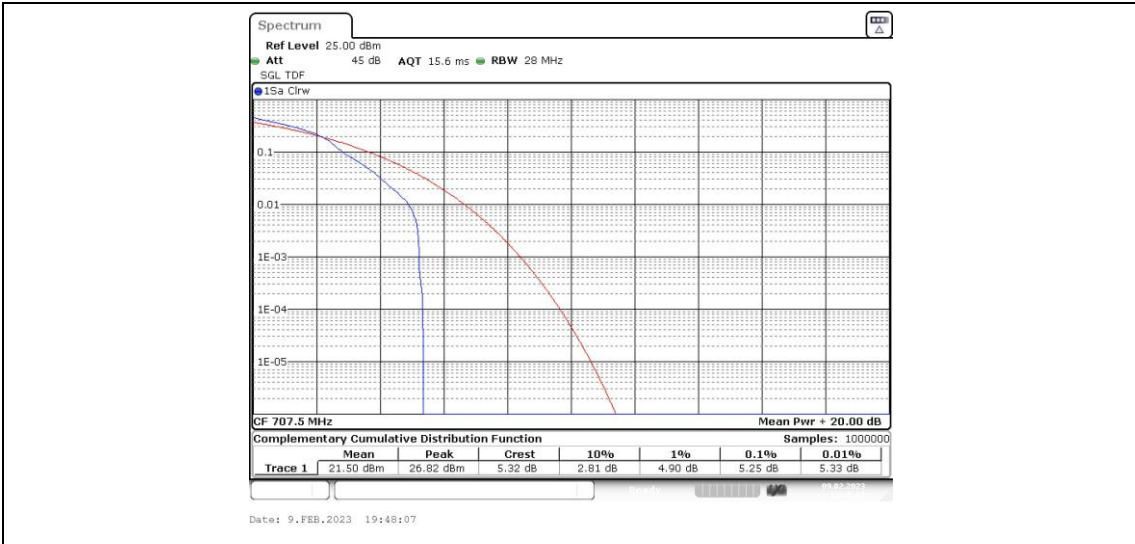


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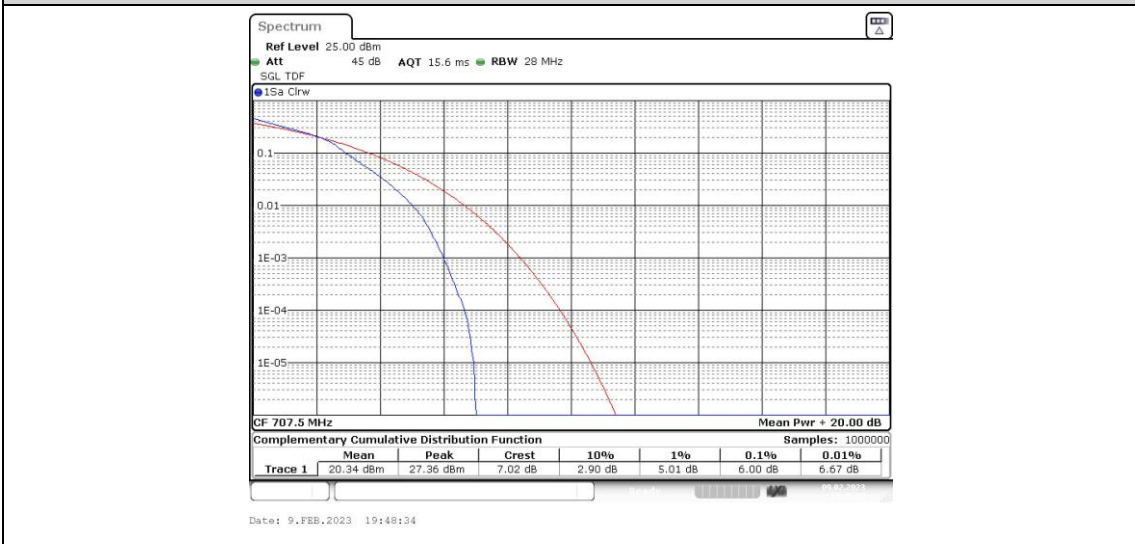


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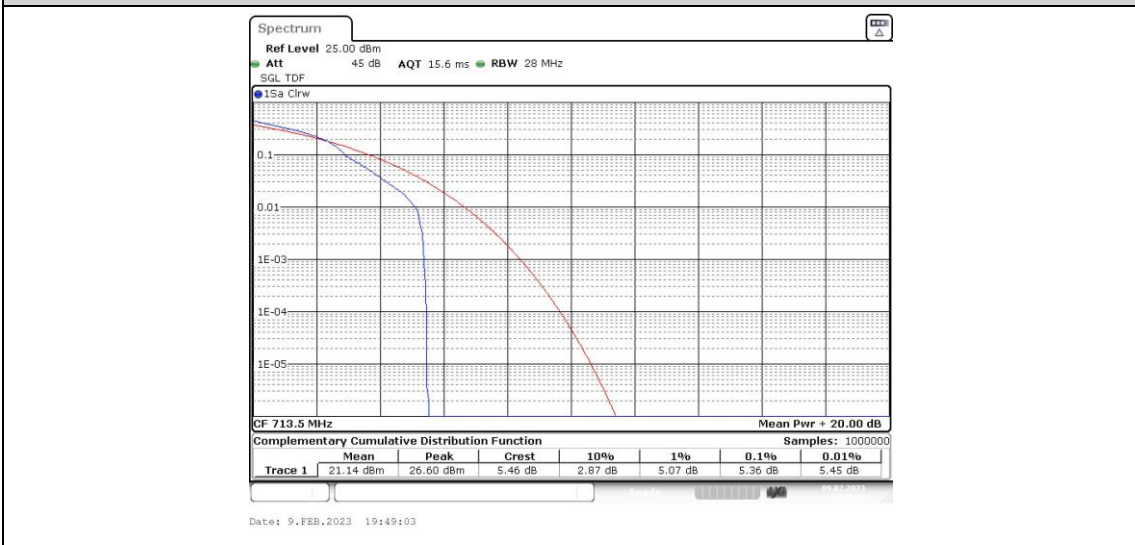




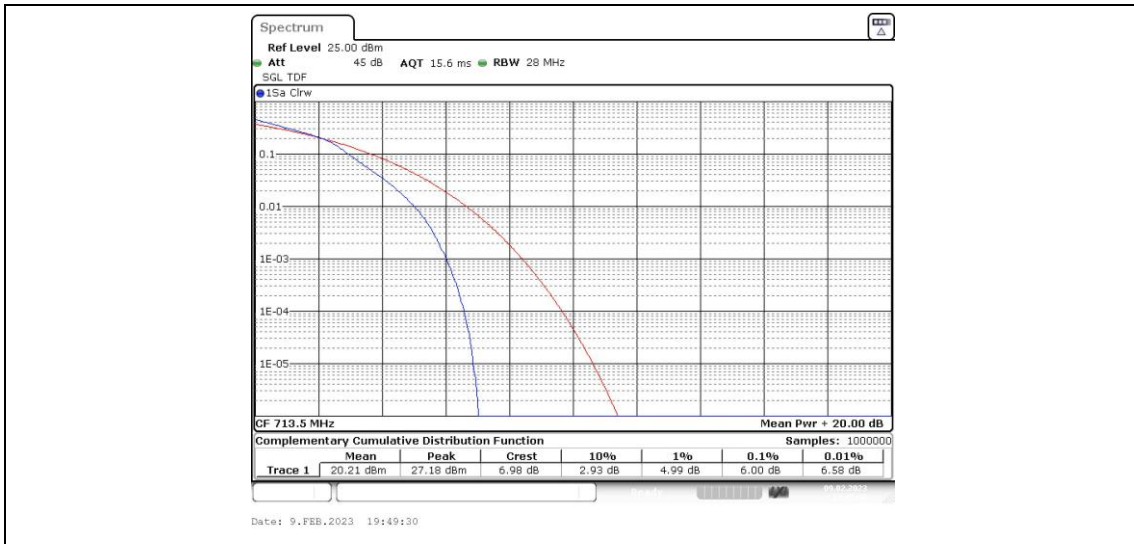
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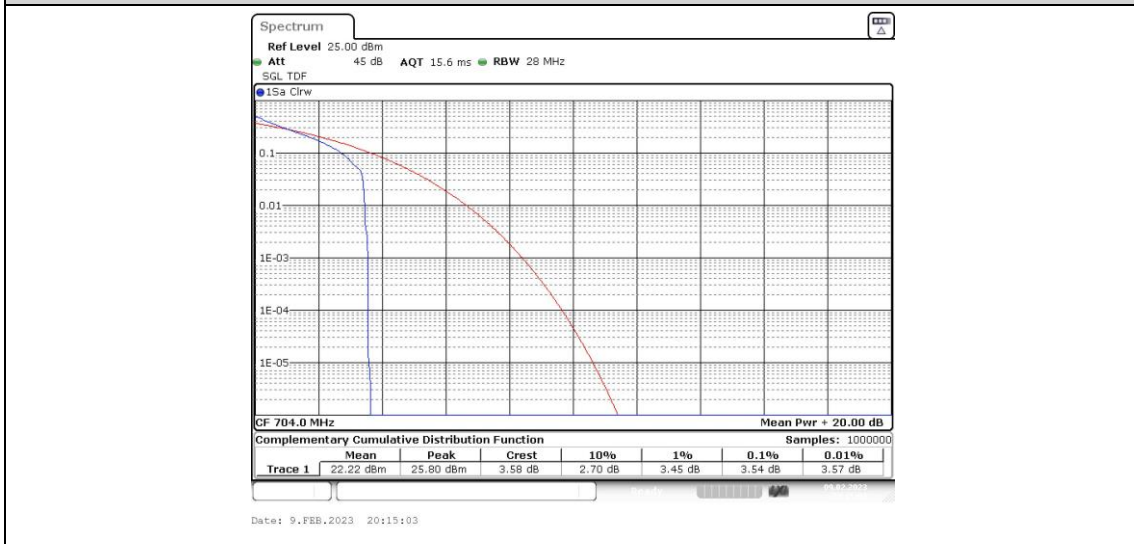
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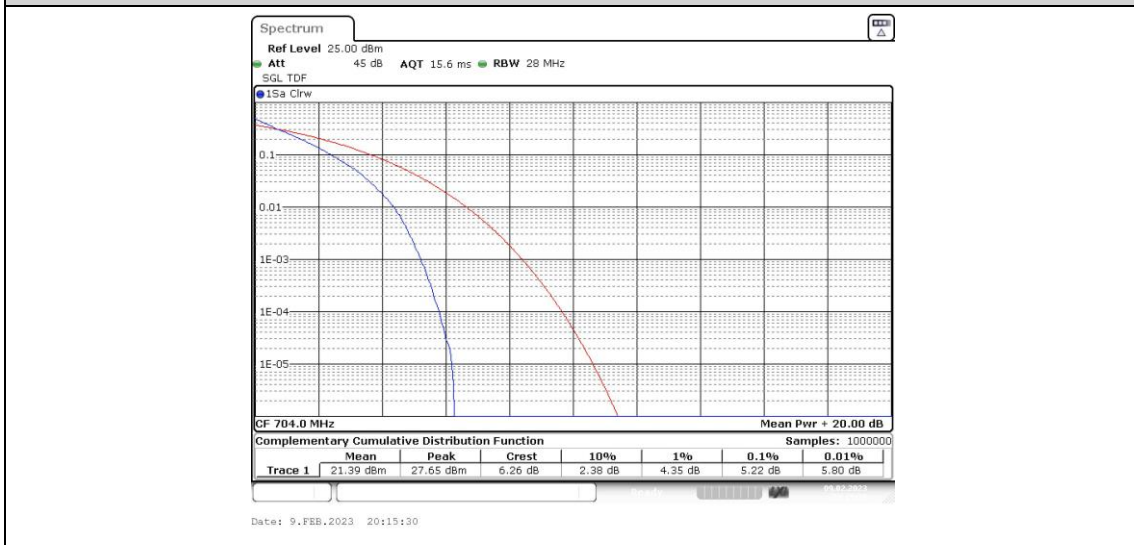
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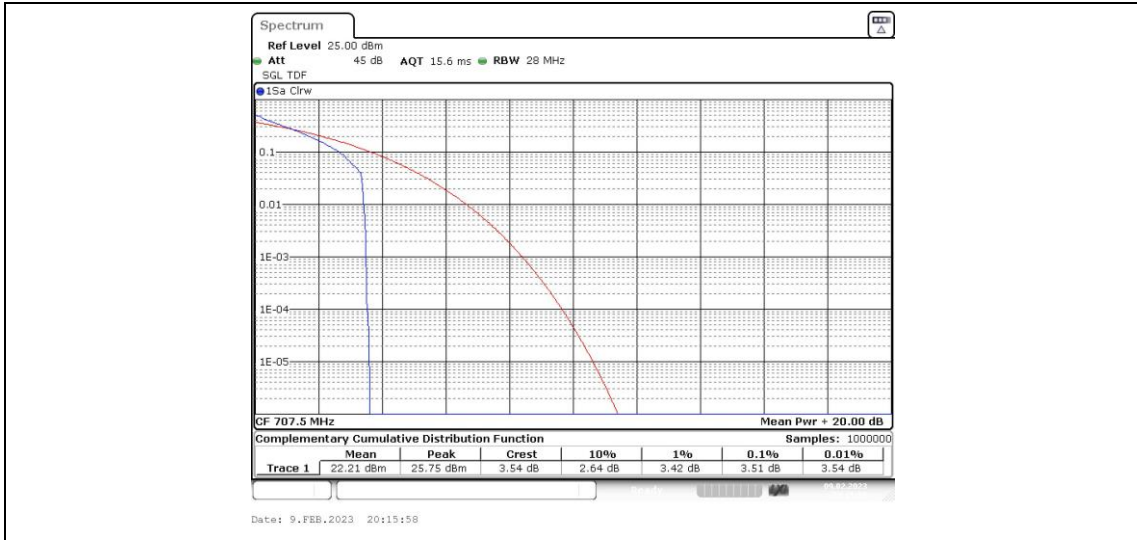
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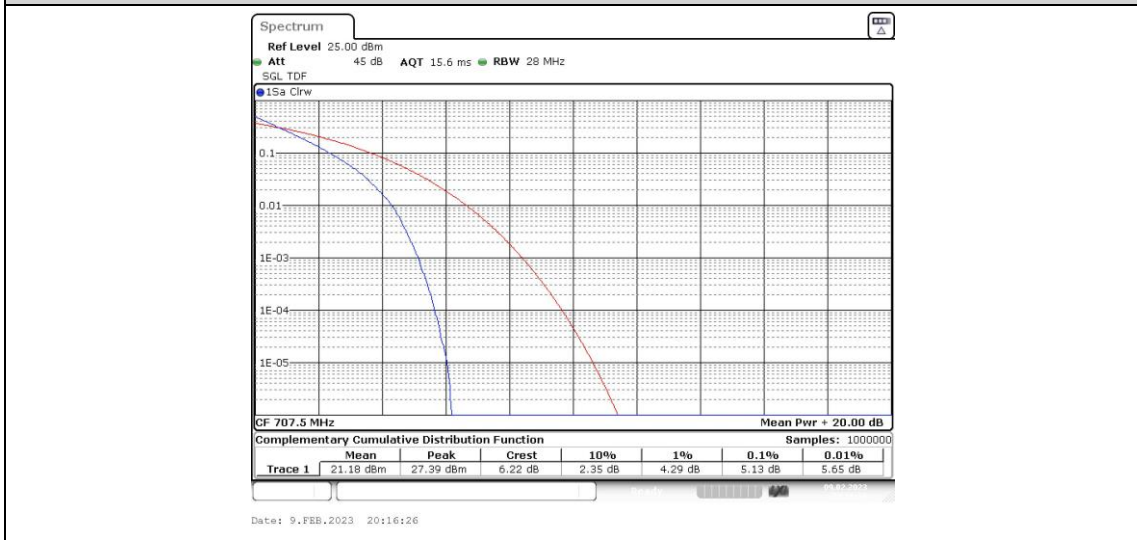
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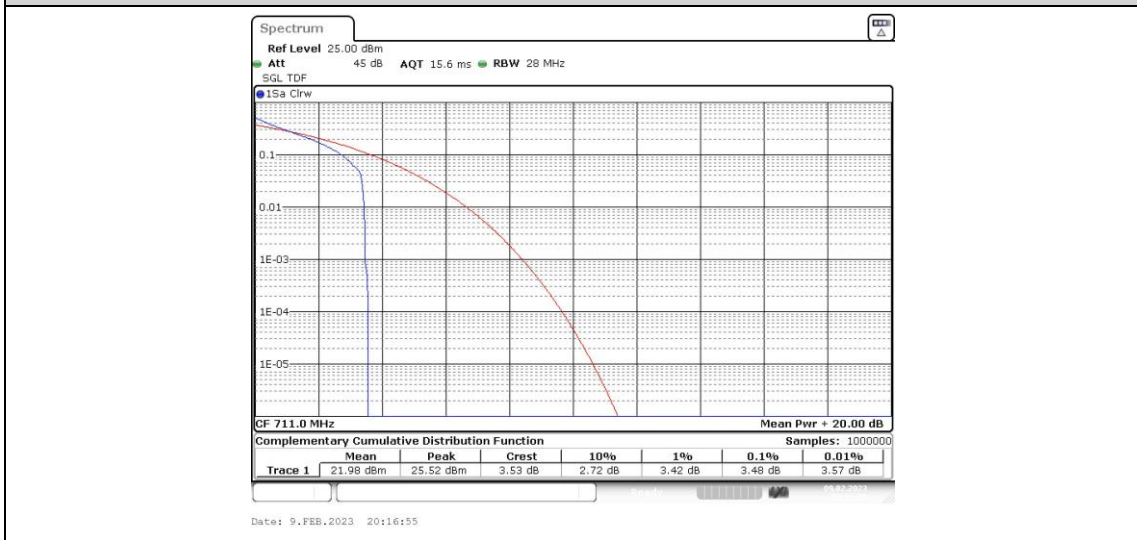
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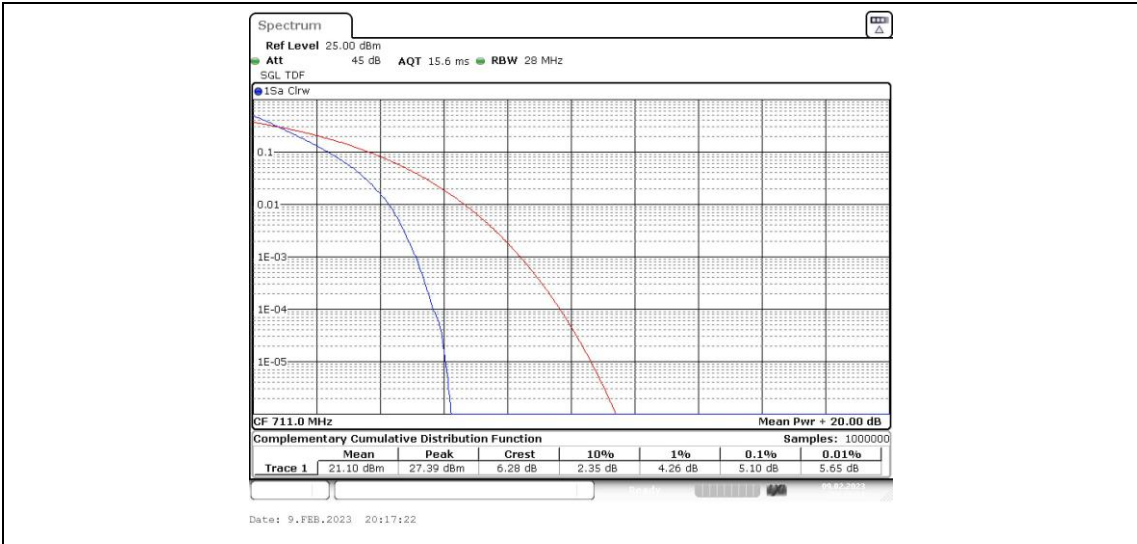


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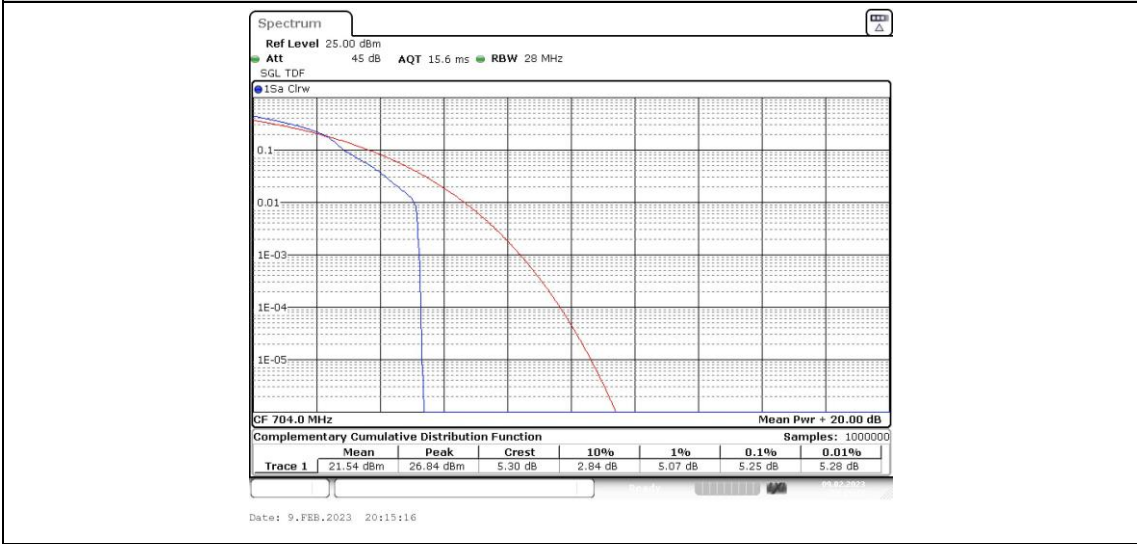


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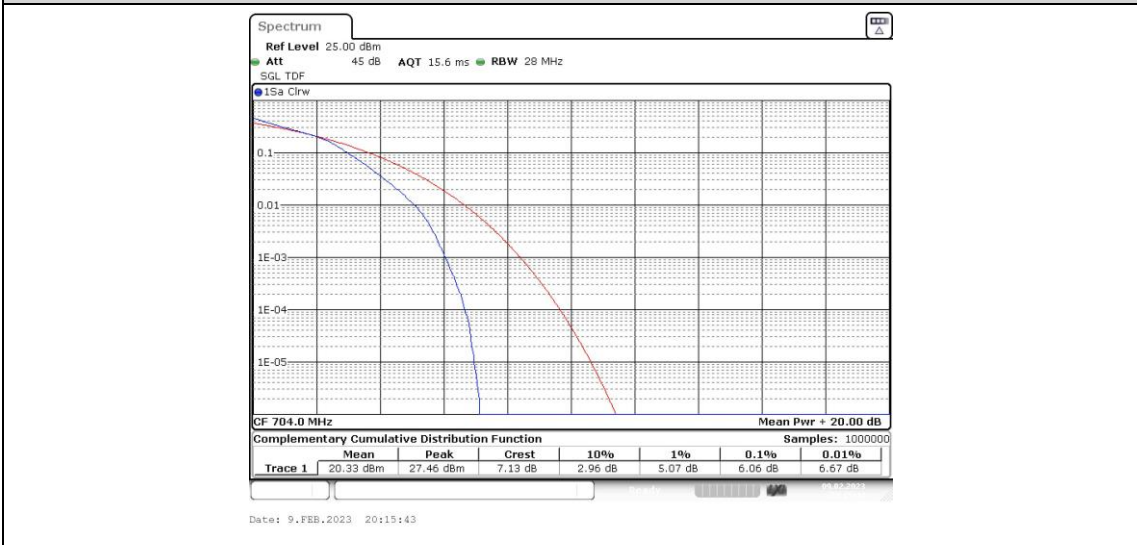




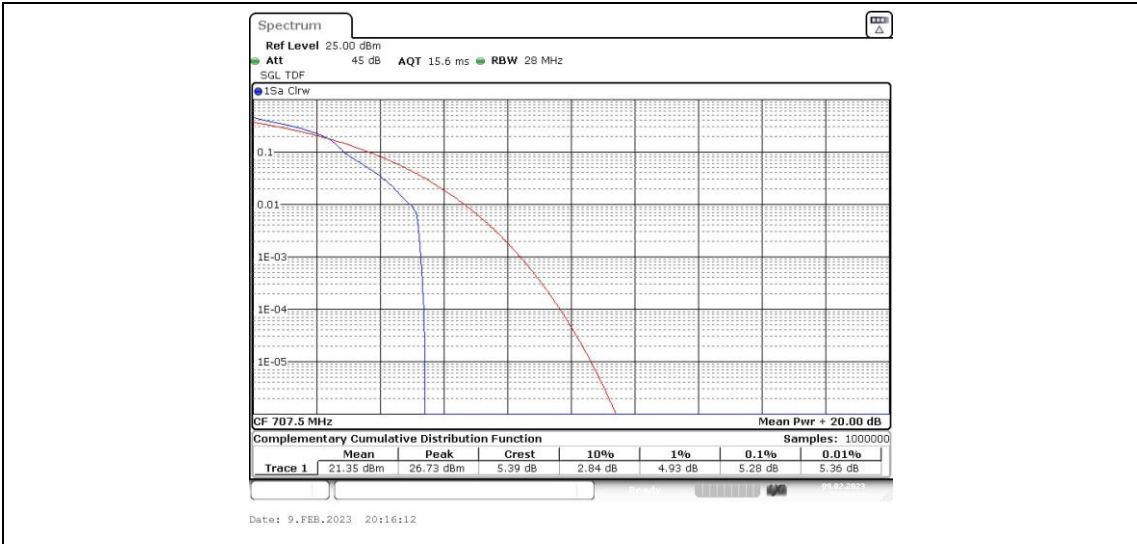
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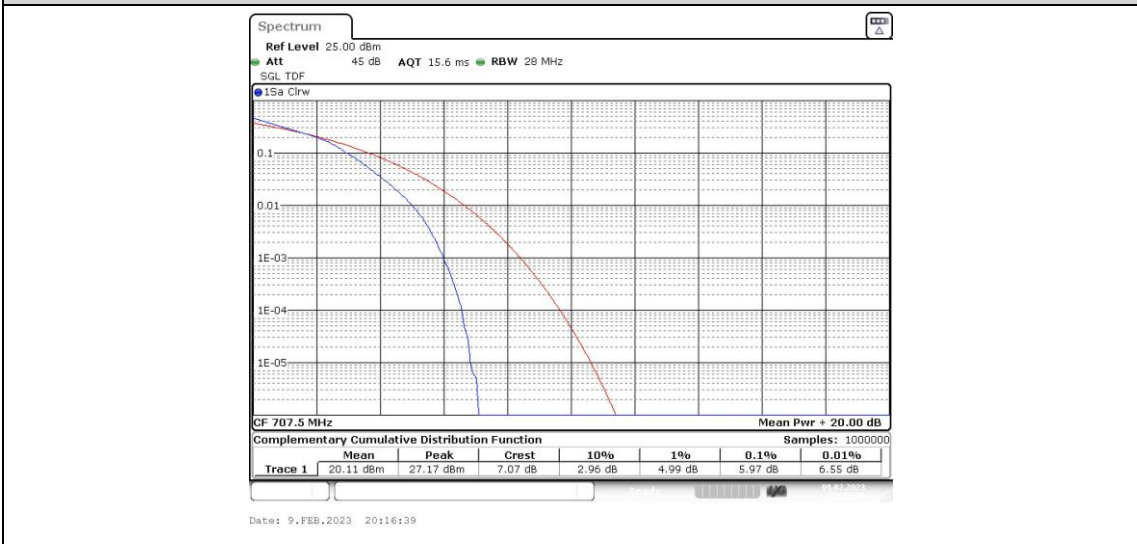
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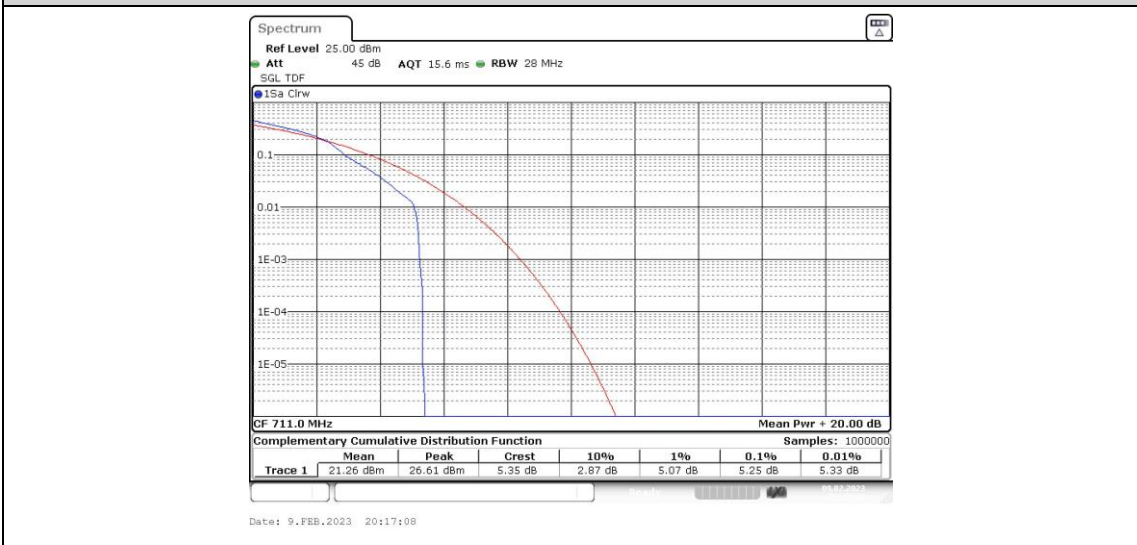
Band12-10MHz-16QAM-23095-1RB#0



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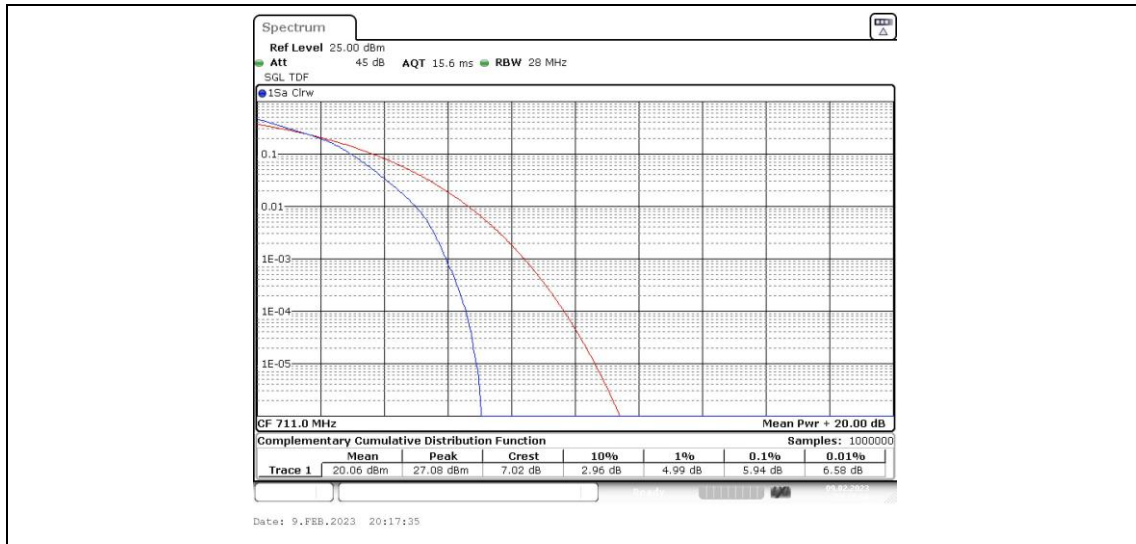


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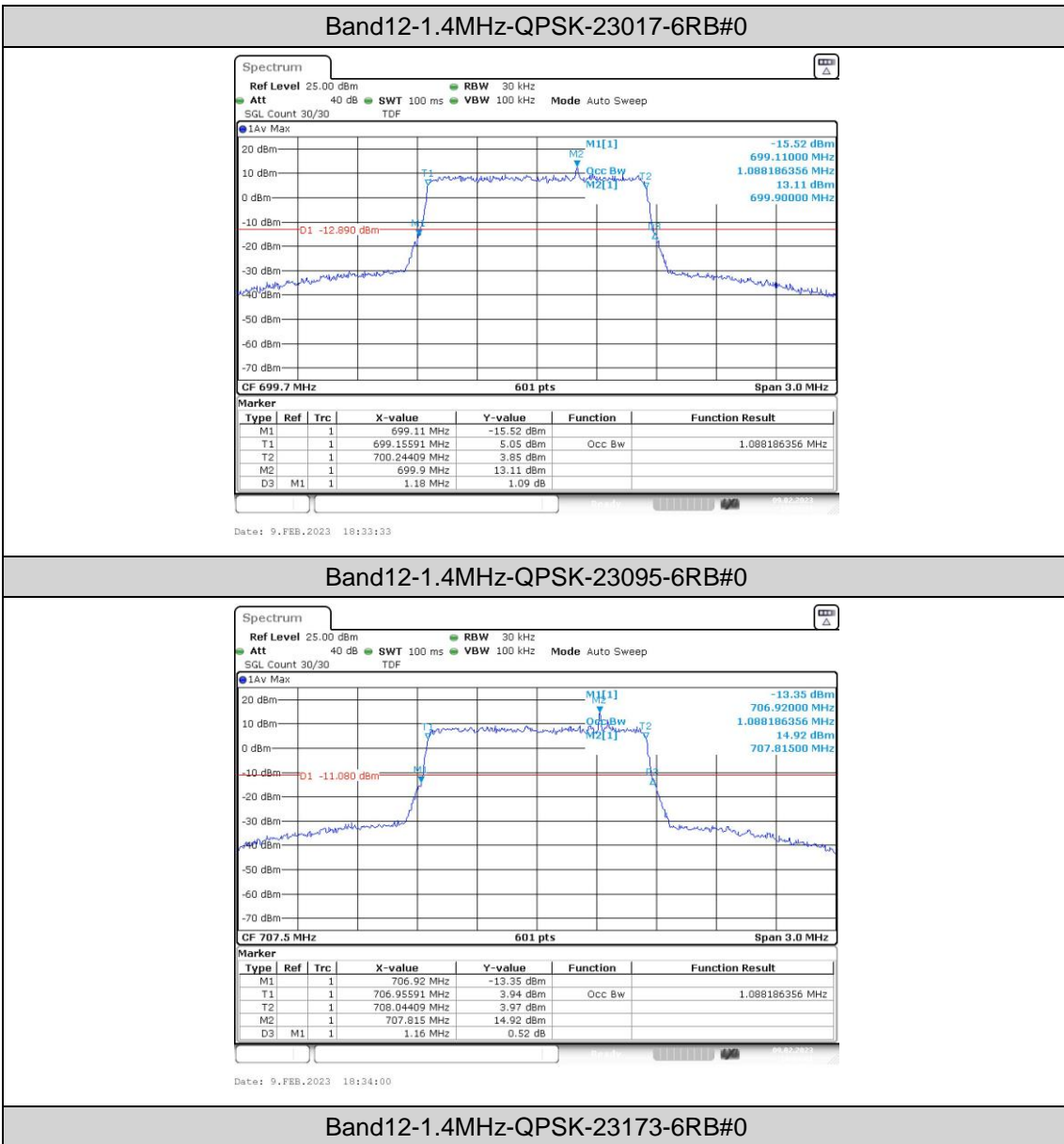


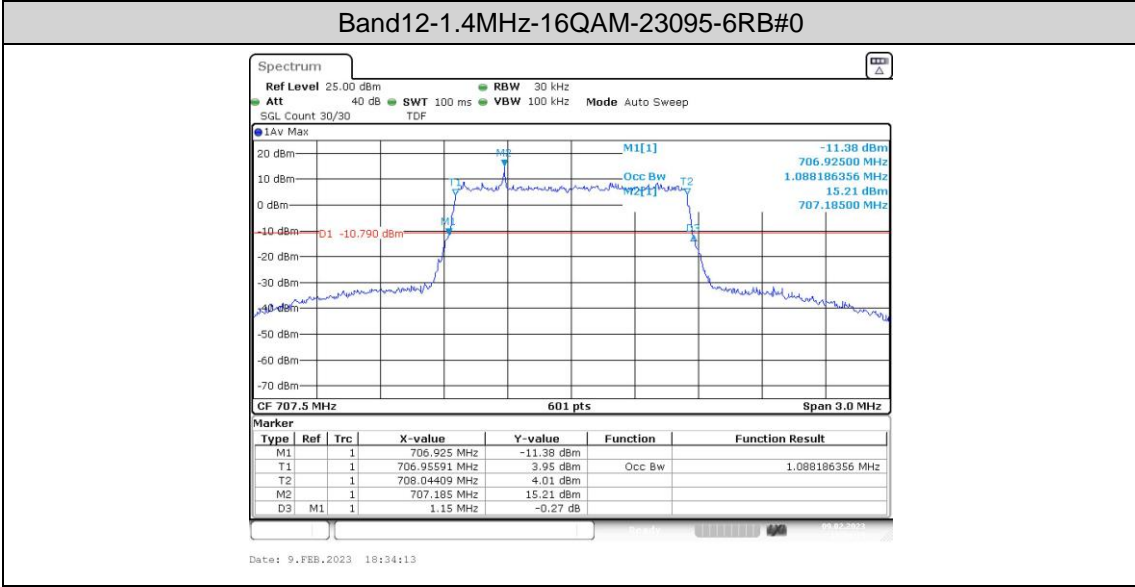
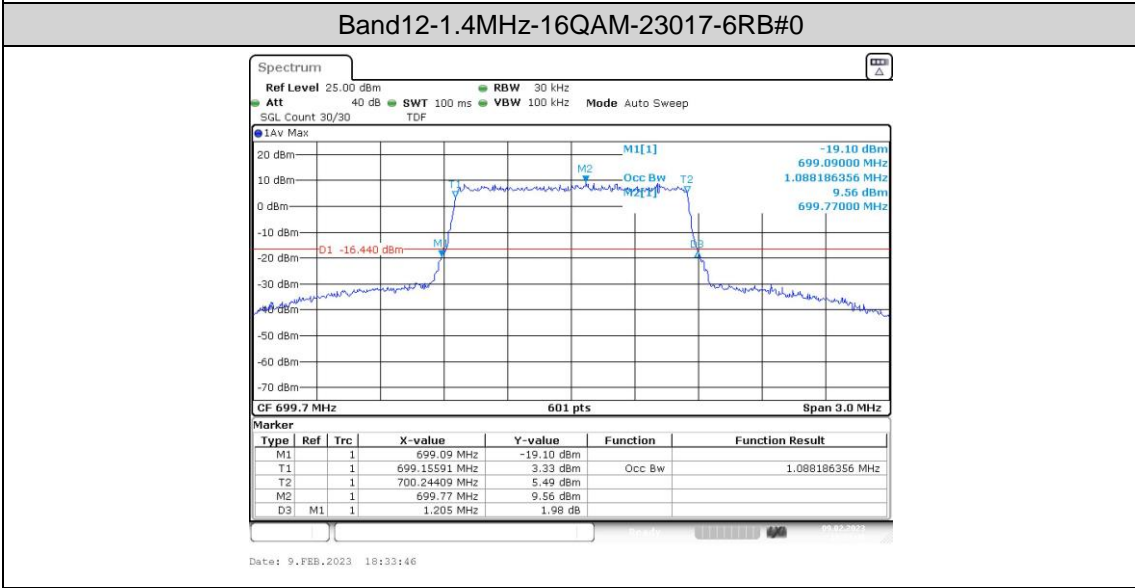
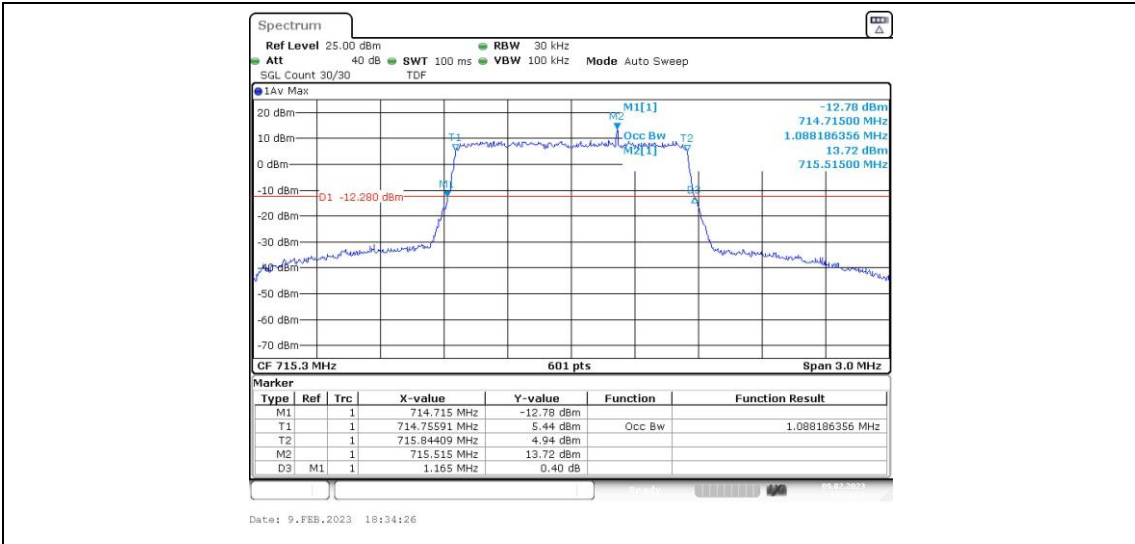
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

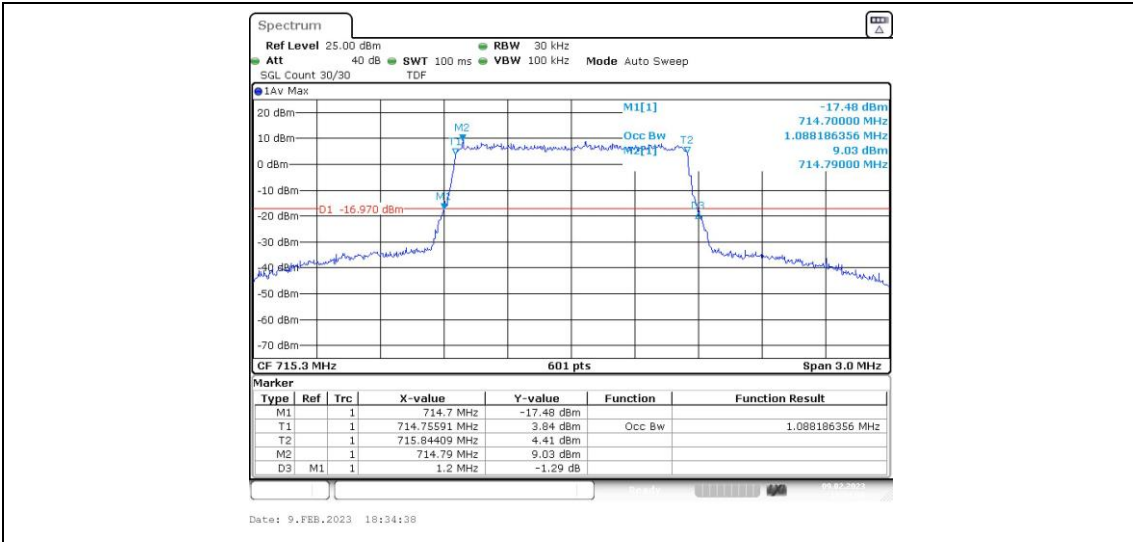
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.088	1.18	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.088	1.16	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.088	1.17	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.088	1.21	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.088	1.15	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.088	1.20	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.705	2.88	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.696	2.86	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.696	2.85	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.696	2.88	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.696	2.87	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.696	2.86	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.515	4.80	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.496	4.78	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.496	4.78	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.496	4.78	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.496	4.78	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.505	4.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.985	9.53	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.952	9.57	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

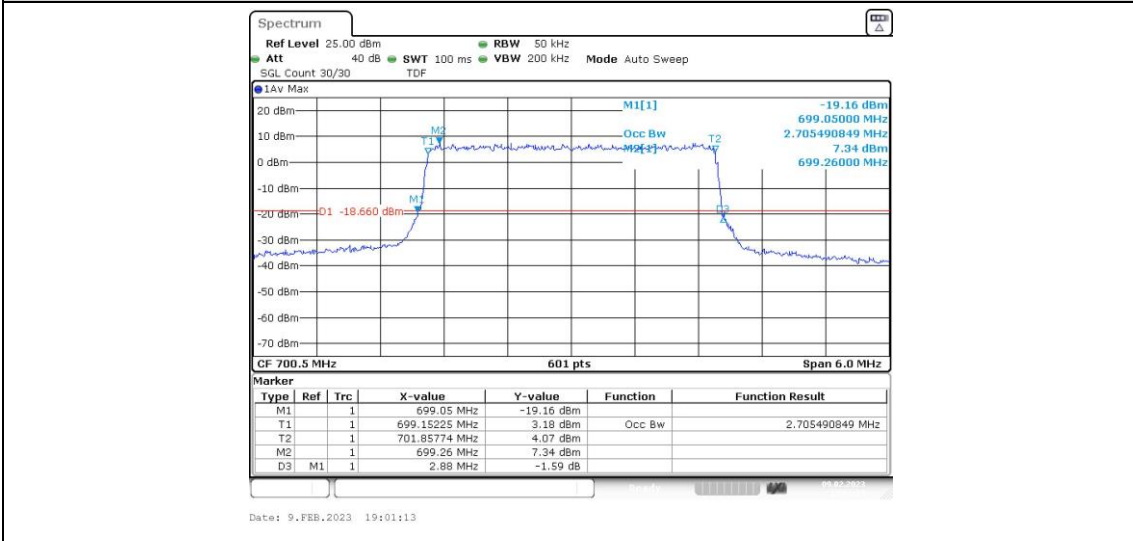
### Test Graphs



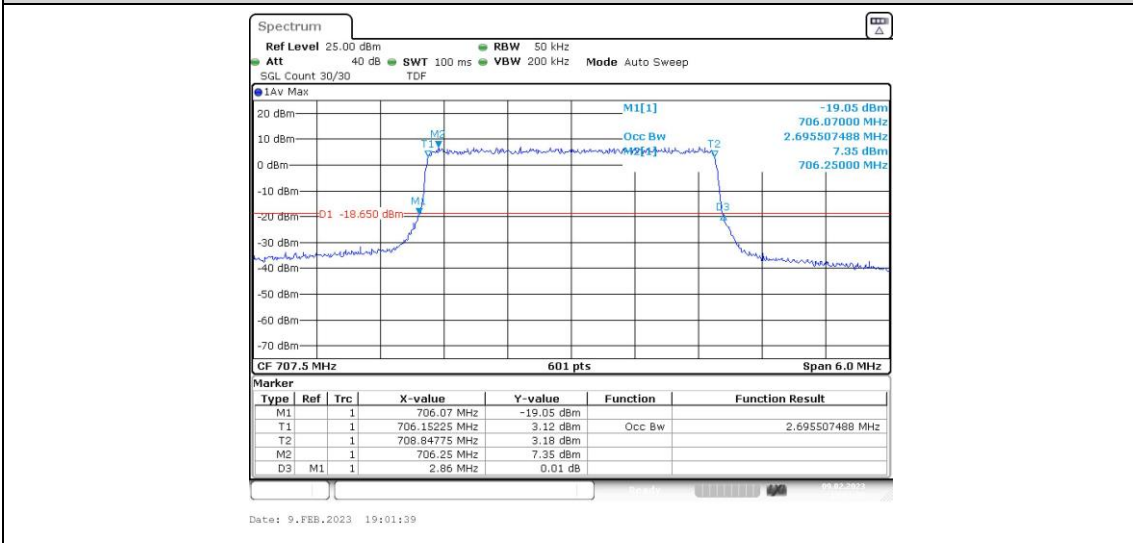




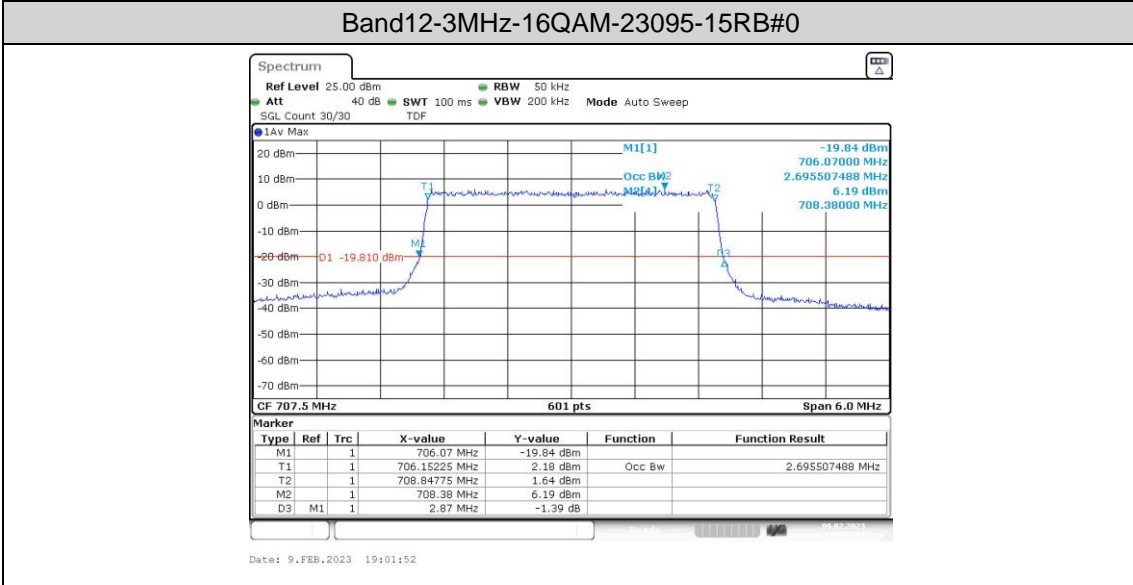
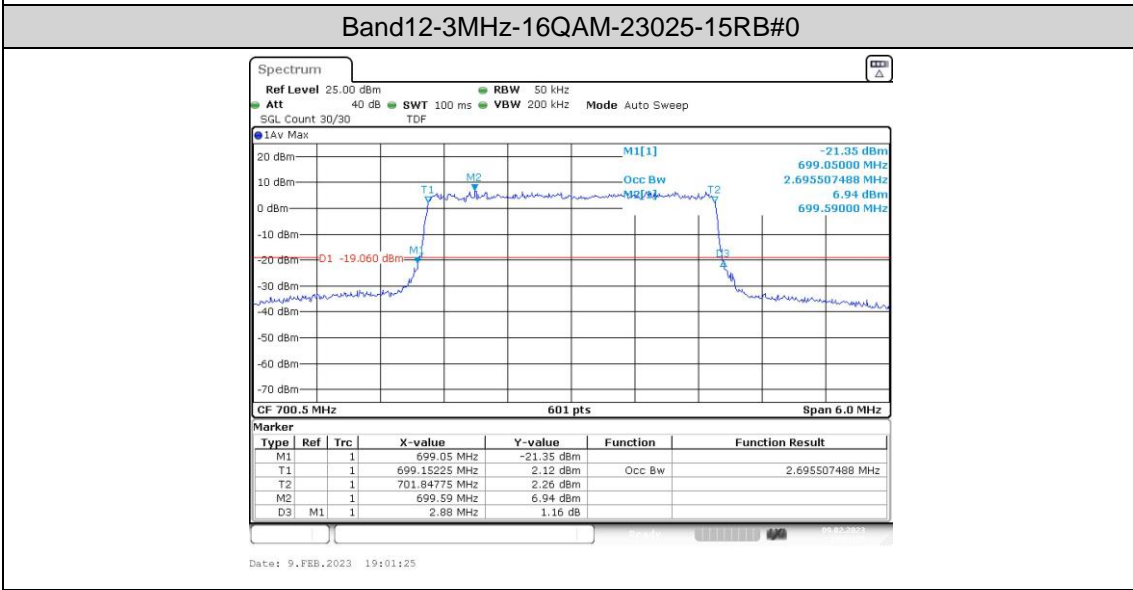
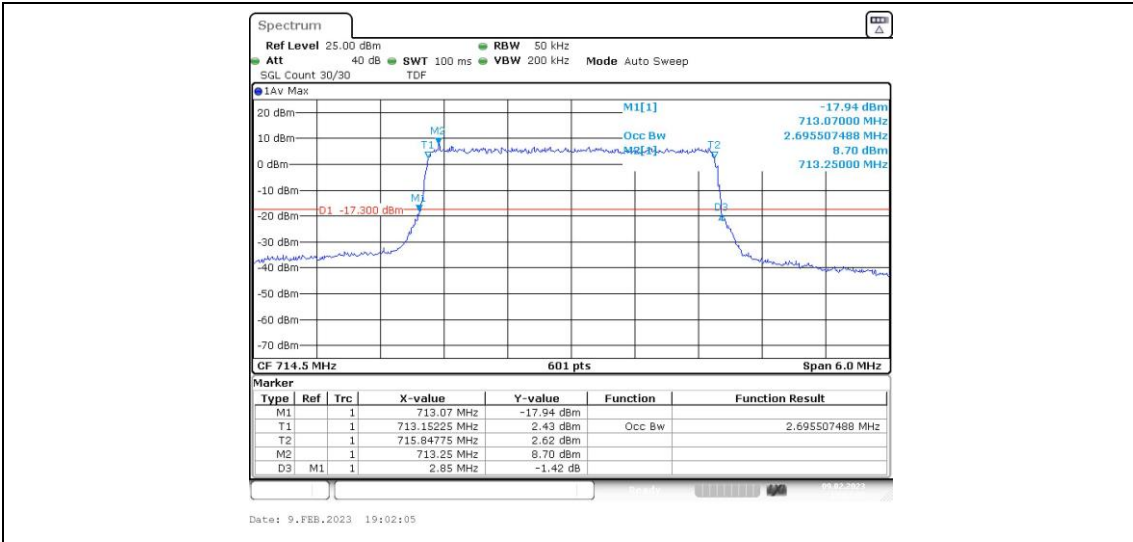
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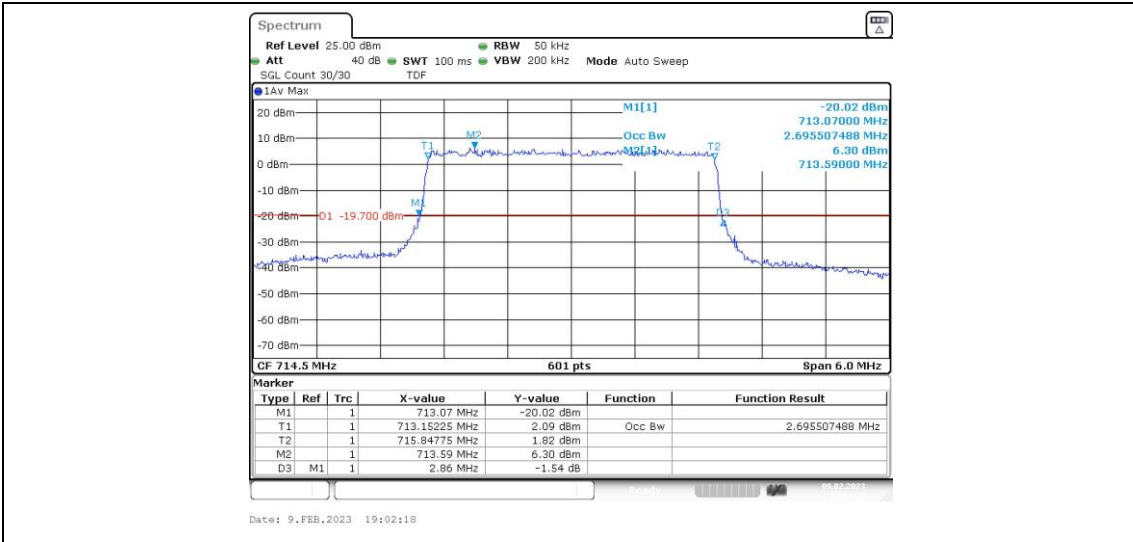


**Band12-3MHz-QPSK-23095-15RB#0**

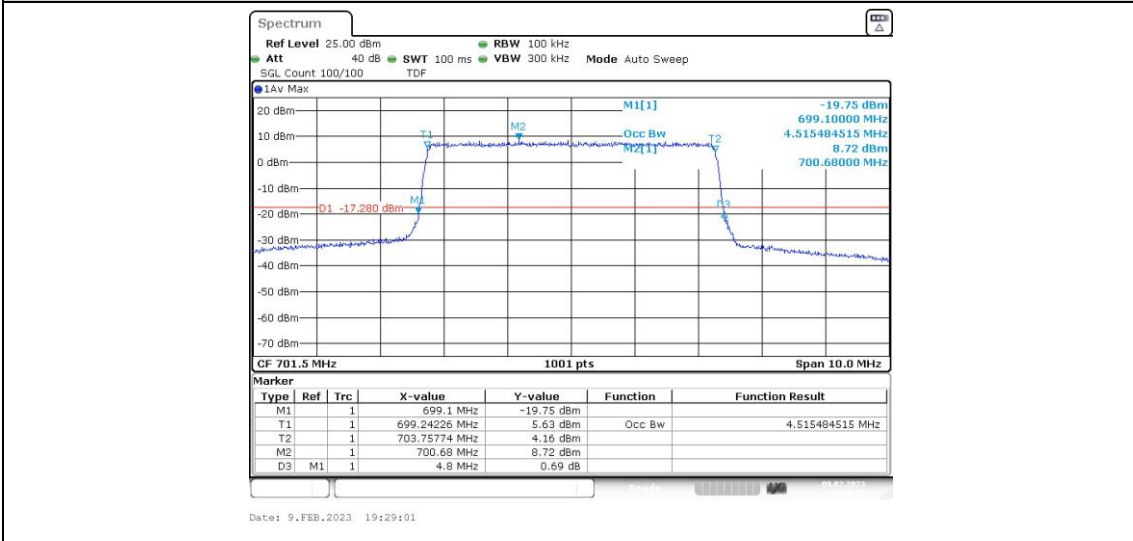


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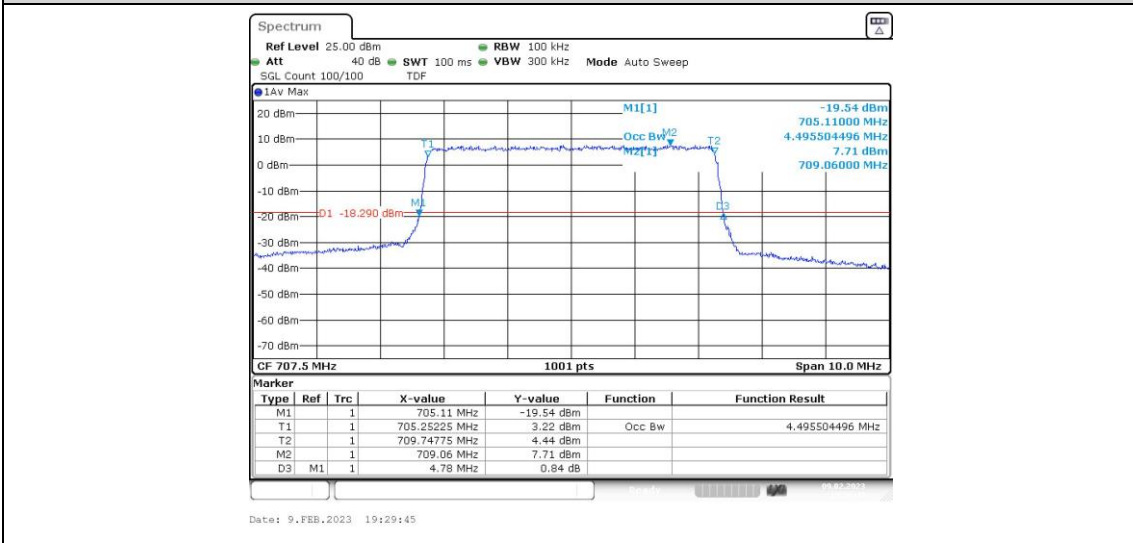




**Band12-5MHz-QPSK-23035-25RB#0**

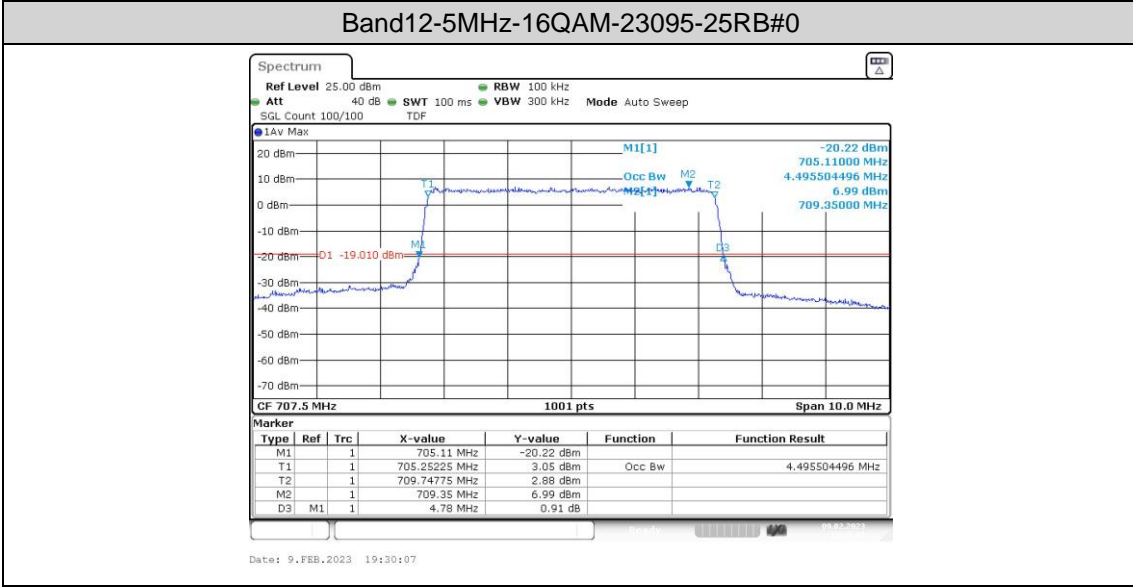
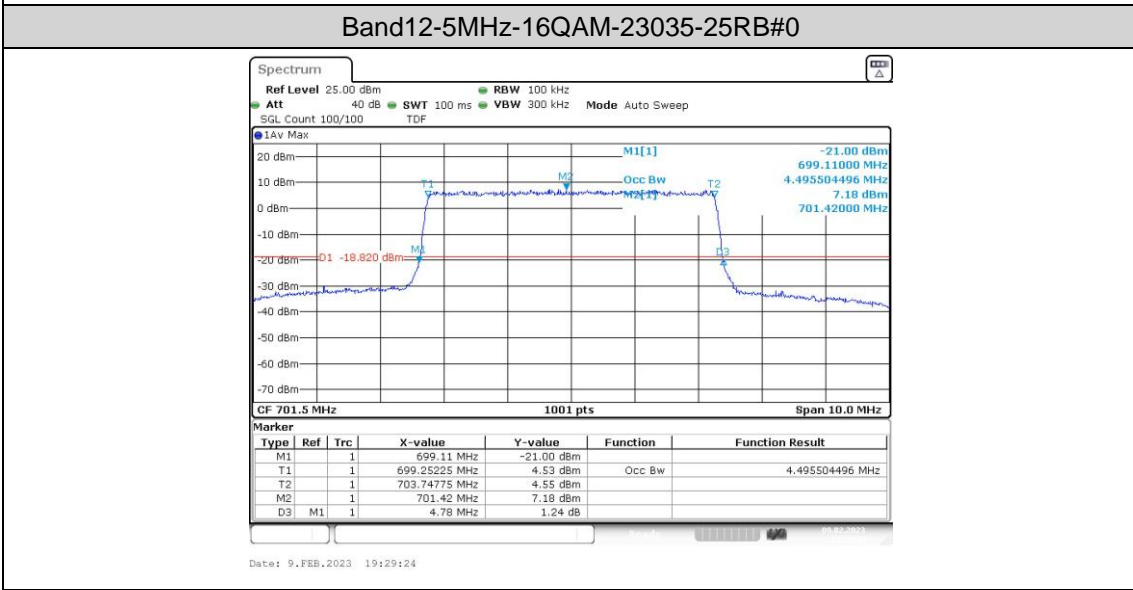
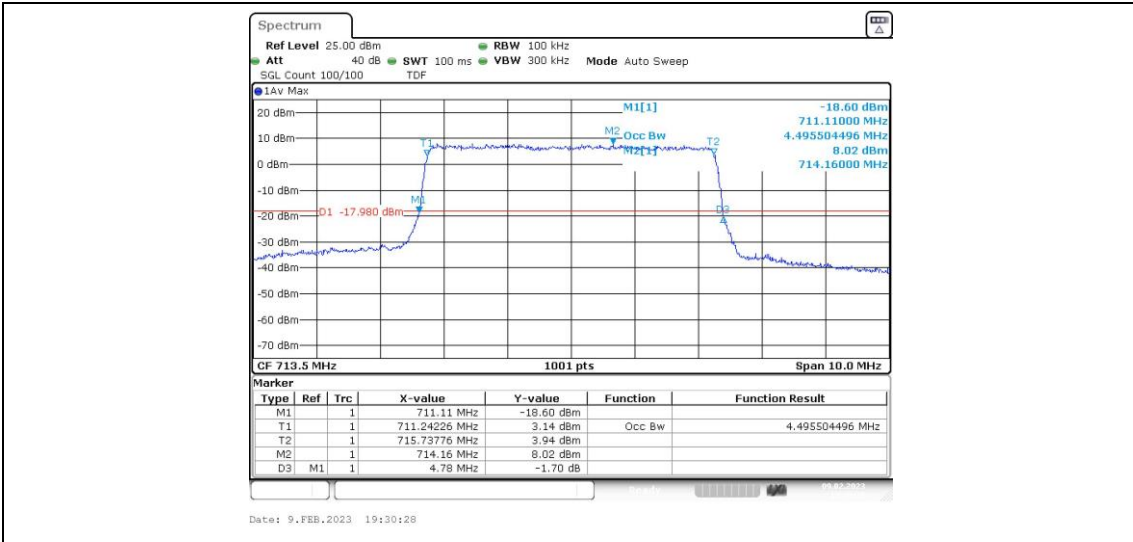


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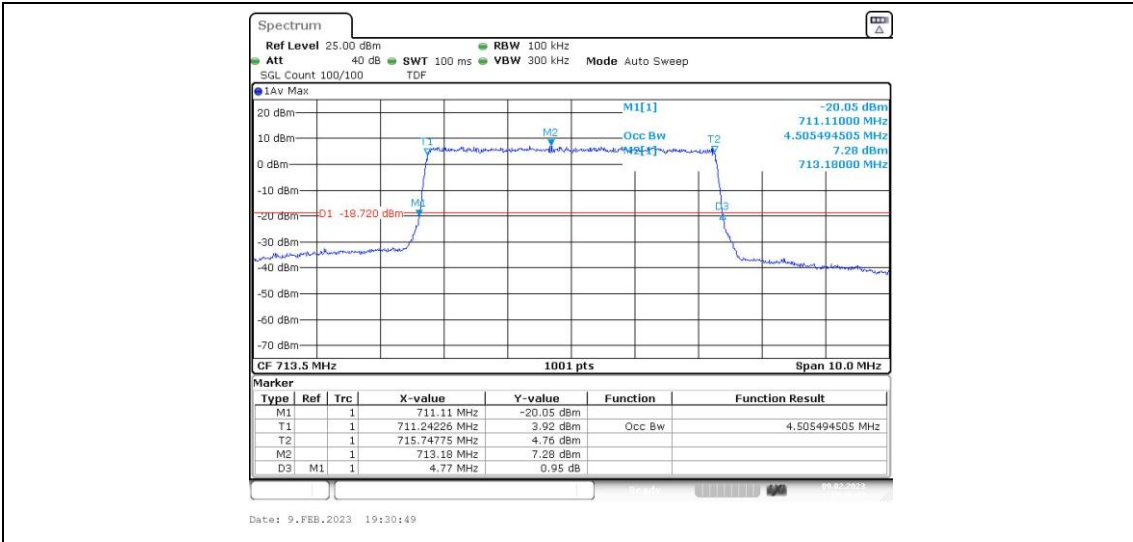


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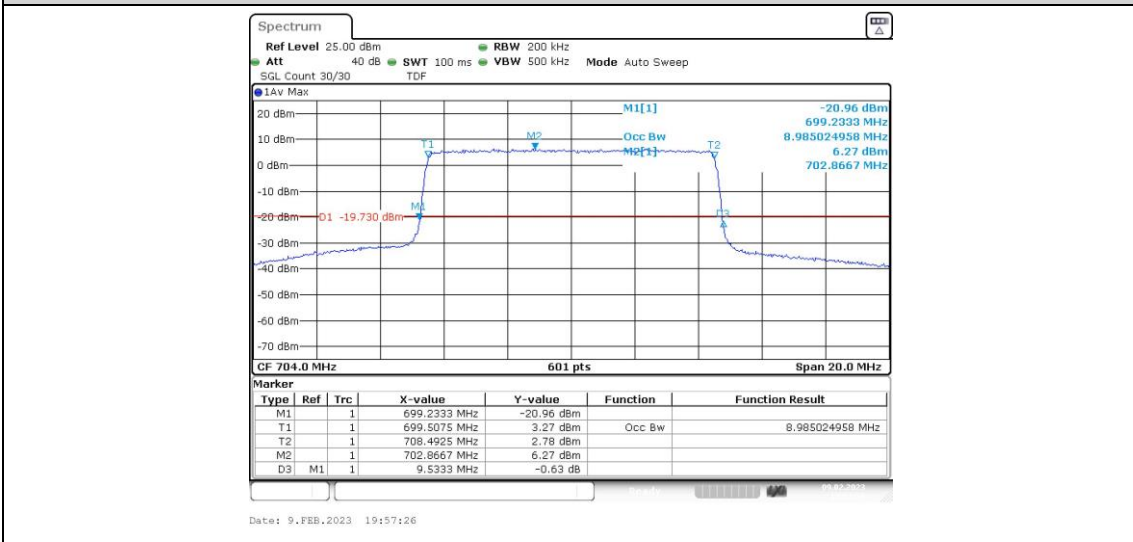




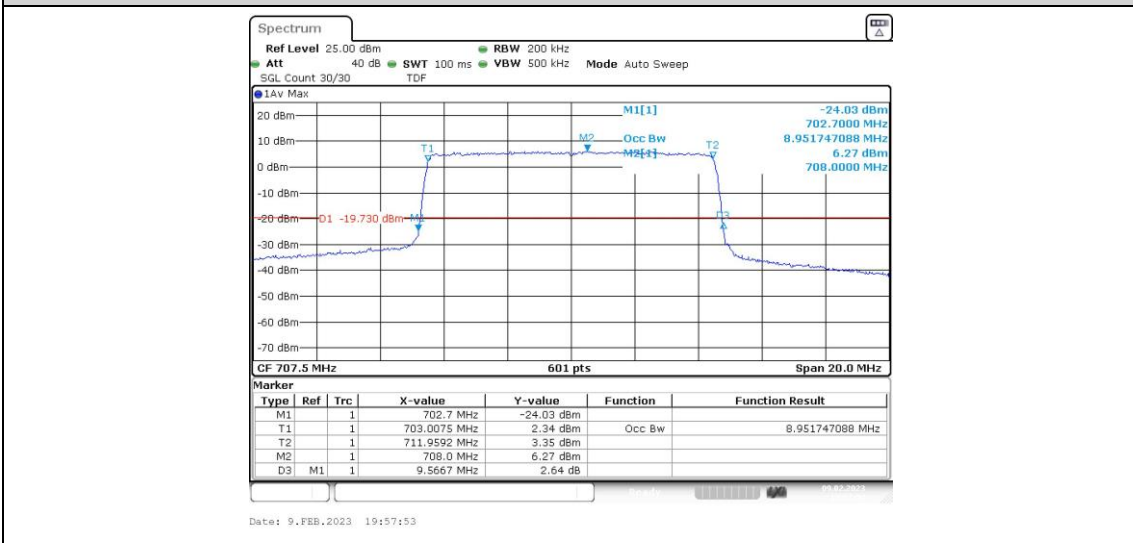




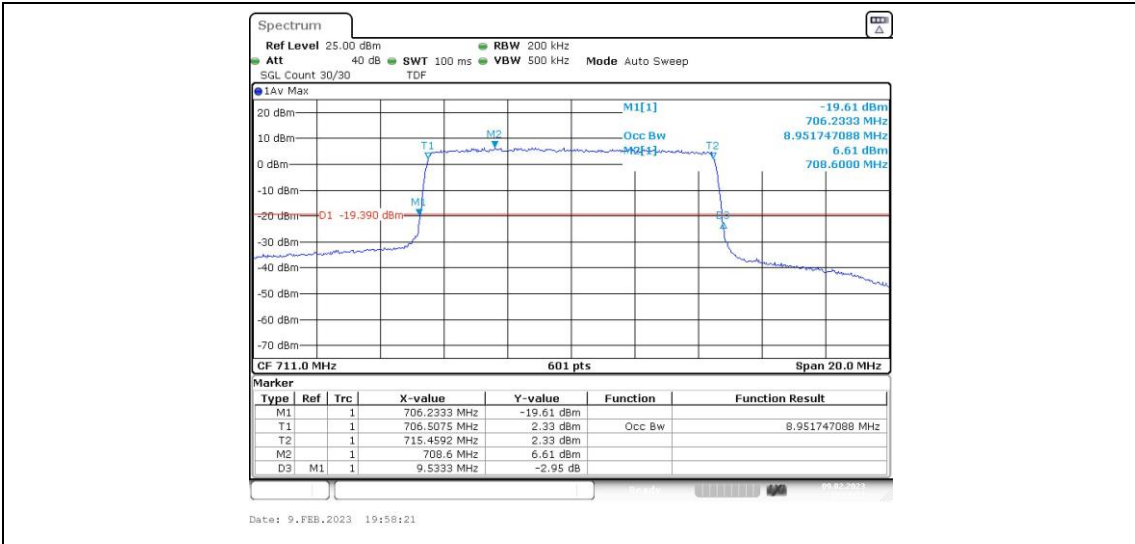
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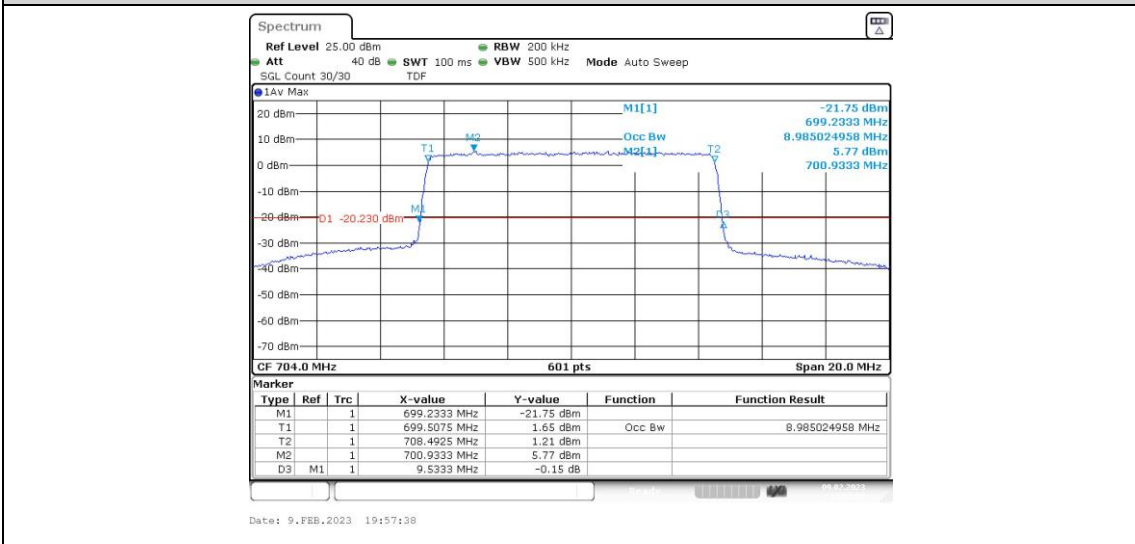
Band12-10MHz-QPSK-23095-50RB#0



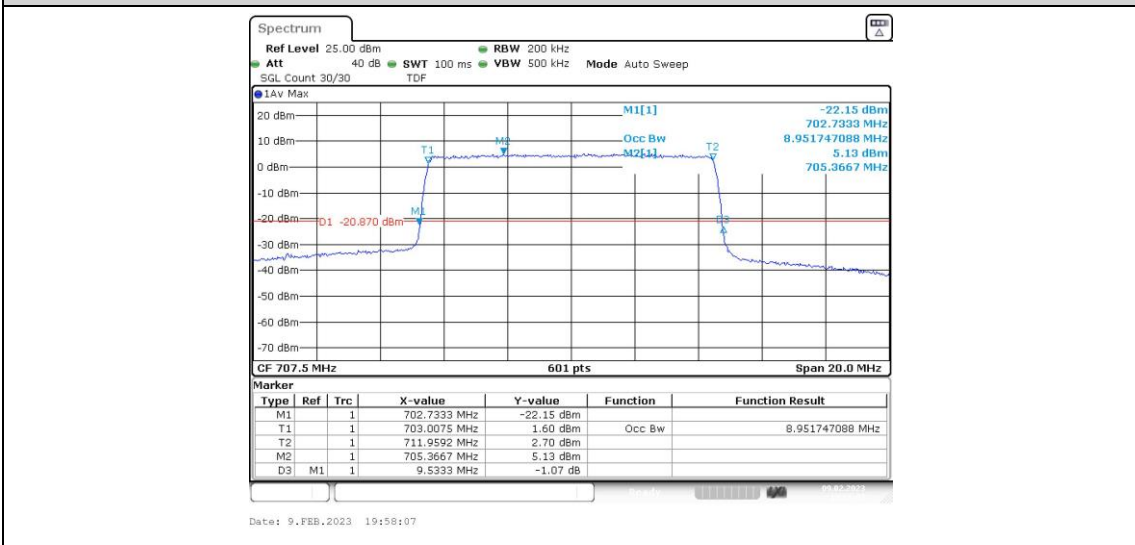
Band12-10MHz-QPSK-23130-50RB#0



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



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



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