

## **Appendix for LTE BAND 38**

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
Band38	5MHz	QPSK	37775	1RB#0	22.53	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.47	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.45	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.49	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.47	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.46	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.45	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.44	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.48	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.48	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.52	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.51	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.60	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.47	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.76	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.78	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.72	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.87	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.82	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.76	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.80	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.92	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.82	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.51	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.50	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.43	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.44	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.01	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.97	PASS

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Band38	5MHz	16QAM	38000	1RB#24	22.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.48	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.46	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.58	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.51	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.22	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.30	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.06	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.83	PASS
Band38	5MHz	16QAM	38225	12RB#6	20.86	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.79	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.86	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.49	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.29	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.34	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.49	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.53	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.36	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.49	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.38	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.45	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.64	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.48	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.46	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.60	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.55	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.81	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.82	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.73	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.83	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.85	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.81	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.81	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.07	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.78	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.69	PASS

Band38	10MHz	16QAM	37800	25RB#0	20.61	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.61	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.48	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.51	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.34	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.47	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.60	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.46	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.46	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.61	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.59	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.18	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.14	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.25	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.90	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.94	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.87	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.79	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.32	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.19	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.18	PASS
Band38	15MHz	QPSK	37825	38RB#0	21.29	PASS
Band38	15MHz	QPSK	37825	38RB#18	21.30	PASS
Band38	15MHz	QPSK	37825	38RB#37	21.21	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.29	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.40	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.47	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.62	PASS
Band38	15MHz	QPSK	38000	38RB#0	21.34	PASS
Band38	15MHz	QPSK	38000	38RB#18	21.36	PASS
Band38	15MHz	QPSK	38000	38RB#37	21.34	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.35	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.68	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.63	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.50	PASS
Band38	15MHz	QPSK	38175	38RB#0	21.62	PASS

Band38	15MHz	QPSK	38175	38RB#18	21.62	PASS
Band38	15MHz	QPSK	38175	38RB#37	21.61	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.60	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.83	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.66	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.63	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.30	PASS
Band38	15MHz	16QAM	37825	38RB#18	21.30	PASS
Band38	15MHz	16QAM	37825	38RB#37	21.23	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.22	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.46	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.62	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.68	PASS
Band38	15MHz	16QAM	38000	38RB#0	21.35	PASS
Band38	15MHz	16QAM	38000	38RB#18	21.34	PASS
Band38	15MHz	16QAM	38000	38RB#37	21.36	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.43	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.27	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.14	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.99	PASS
Band38	15MHz	16QAM	38175	38RB#0	21.63	PASS
Band38	15MHz	16QAM	38175	38RB#18	21.62	PASS
Band38	15MHz	16QAM	38175	38RB#37	21.61	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.63	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.61	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.16	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.23	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.29	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.30	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.22	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.31	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.39	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.47	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.87	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.36	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.33	PASS

Band38	20MHz	QPSK	38000	50RB#50	21.61	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.40	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.63	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.63	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.48	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.69	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.68	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.64	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.71	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.62	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.46	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.53	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.33	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.33	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.29	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.30	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.02	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.15	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.31	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.36	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.38	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.60	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.41	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.92	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.97	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.81	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.70	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.75	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.69	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.73	PASS

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

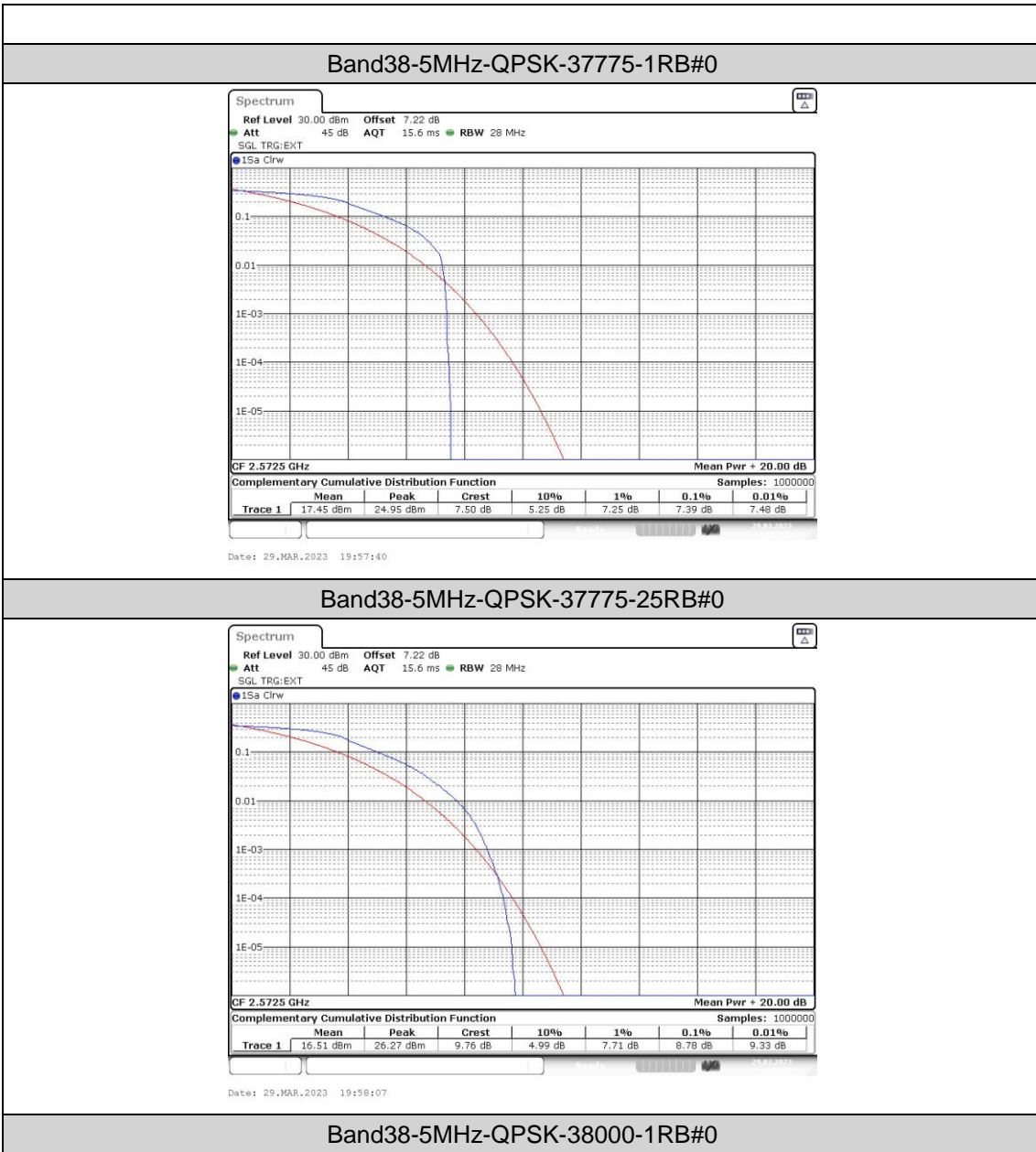
### Test Result

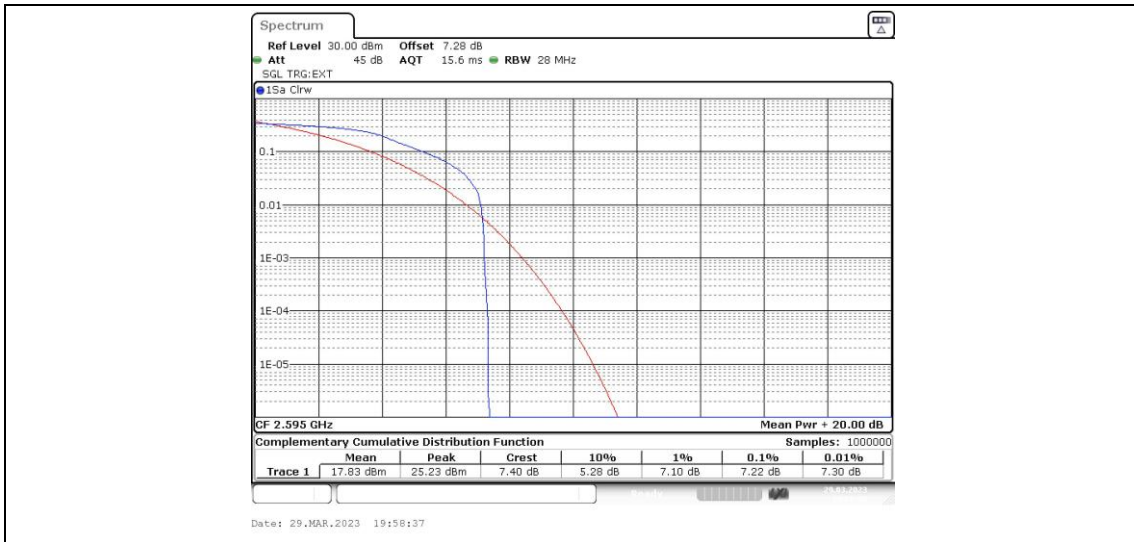
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	7.39	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	8.78	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	7.22	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	8.52	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	7.25	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	8.58	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	8.99	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.57	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	8.67	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	9.33	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	8.72	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.36	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	7.36	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.70	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	7.28	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.49	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	7.22	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.52	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	9.10	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.57	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	8.61	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.33	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	8.58	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.39	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	7.36	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	8.87	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	7.25	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	8.67	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	7.22	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	8.70	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	9.04	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	9.65	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	8.81	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	9.45	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	8.70	13	PASS

Band38	15MHz	16QAM	38175	75RB#0	9.48	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	7.30	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	8.58	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	7.22	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.46	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	7.16	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.46	13	PASS
Band38	20MHz	16QAM	37850	1RB#0	8.93	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.48	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	8.99	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.39	13	PASS
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Band38	20MHz	16QAM	38150	100RB#0	9.39	13	PASS

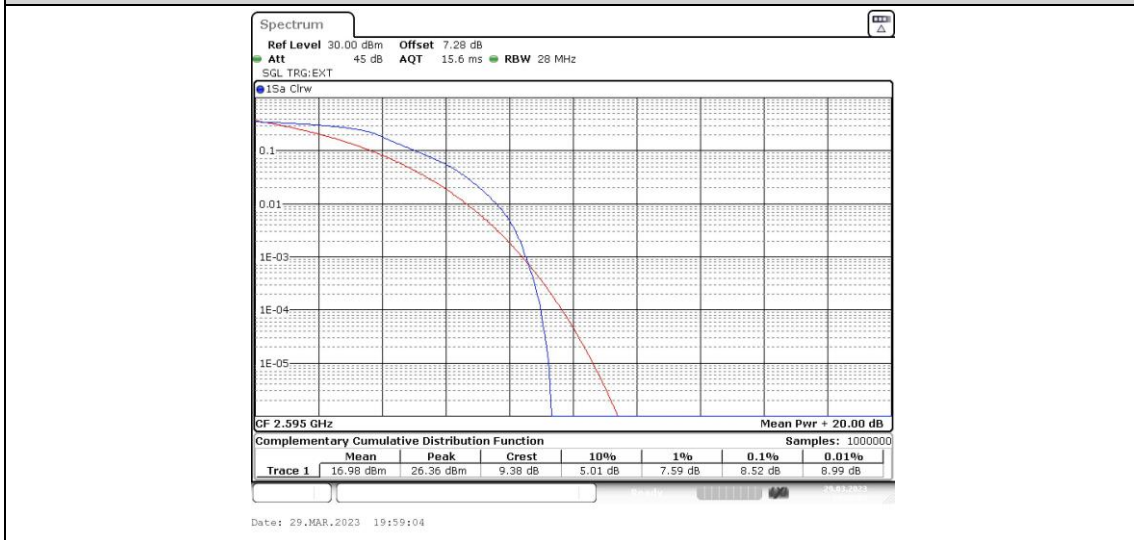


### Test Graphs

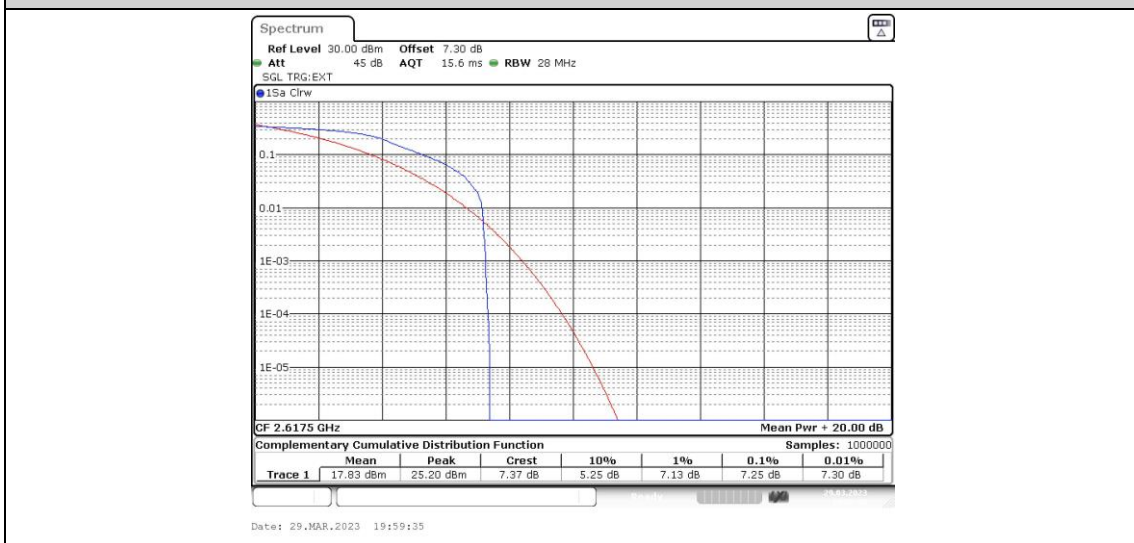




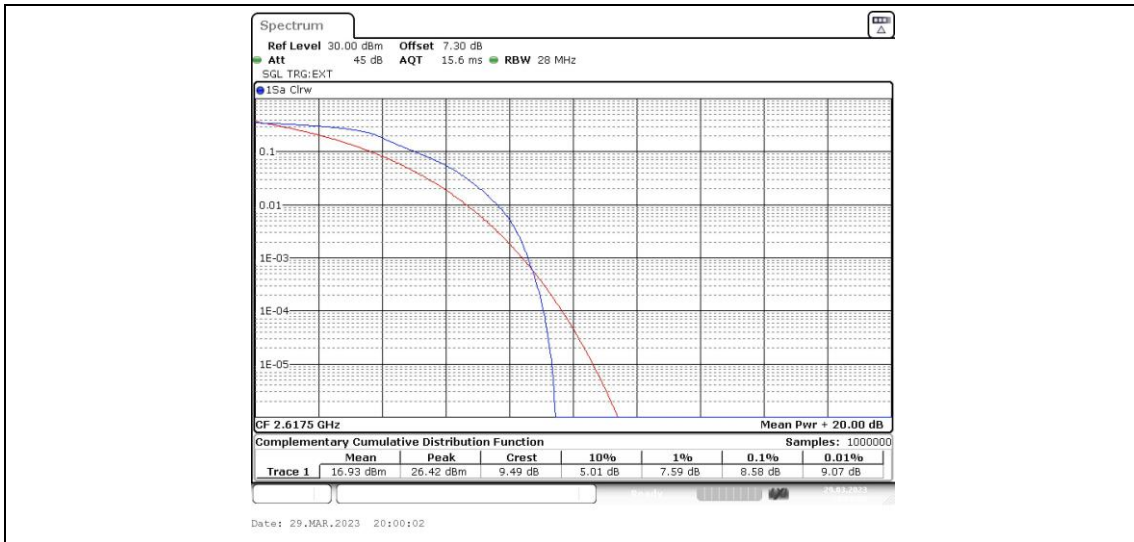
Band38-5MHz-QPSK-38000-25RB#0



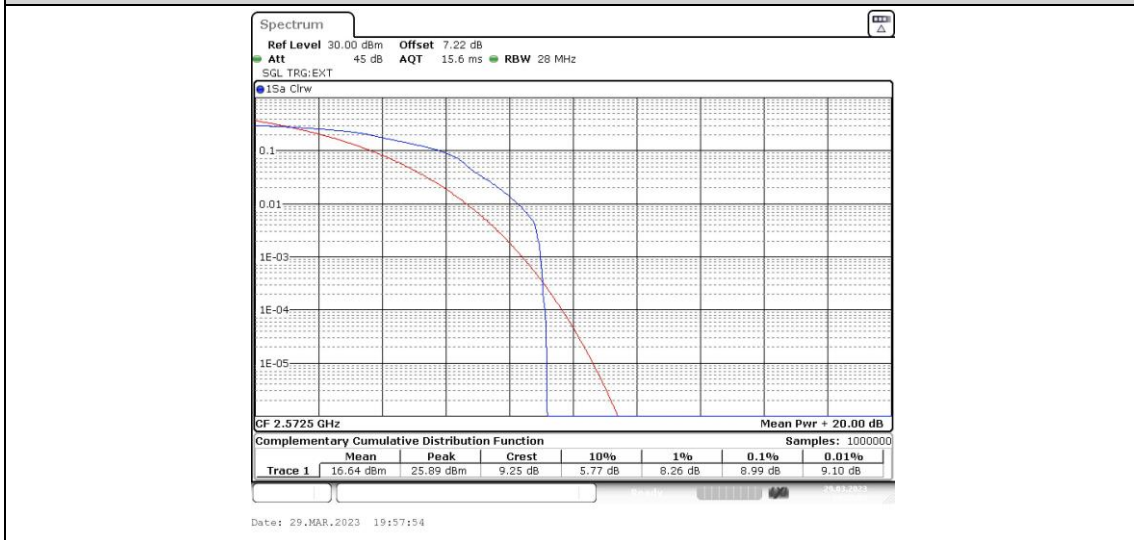
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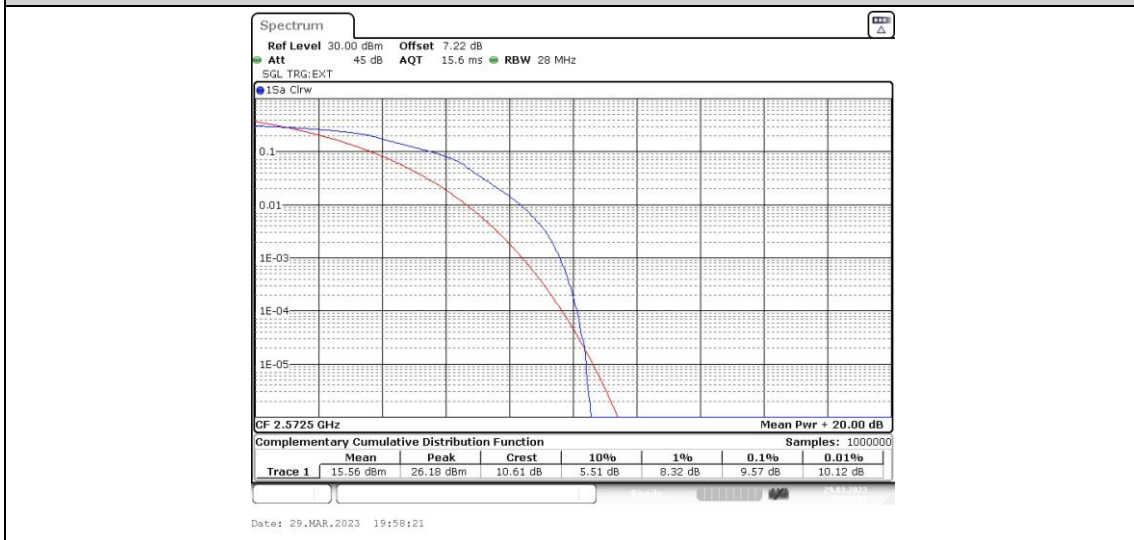
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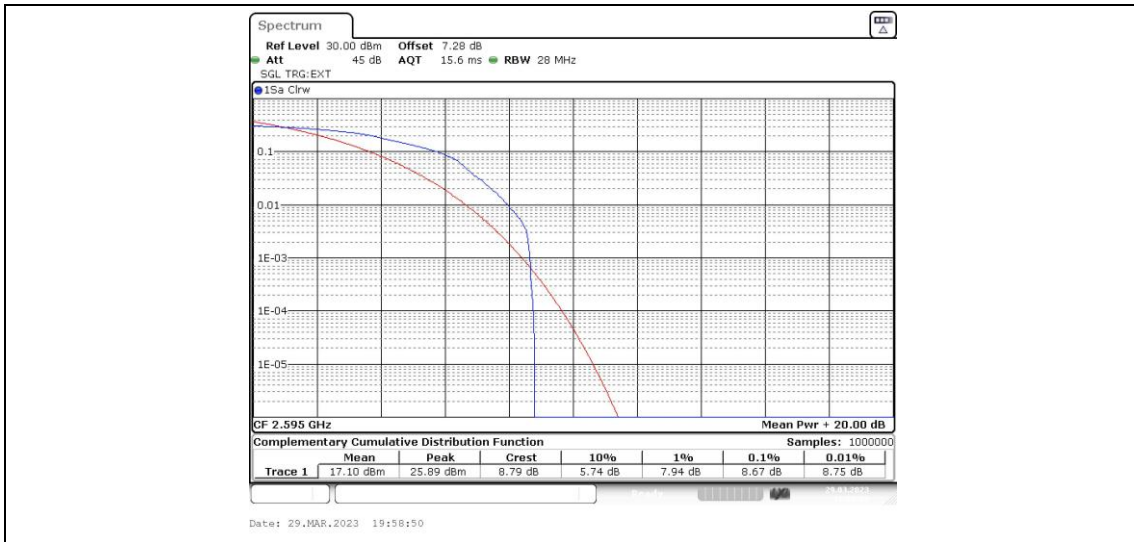
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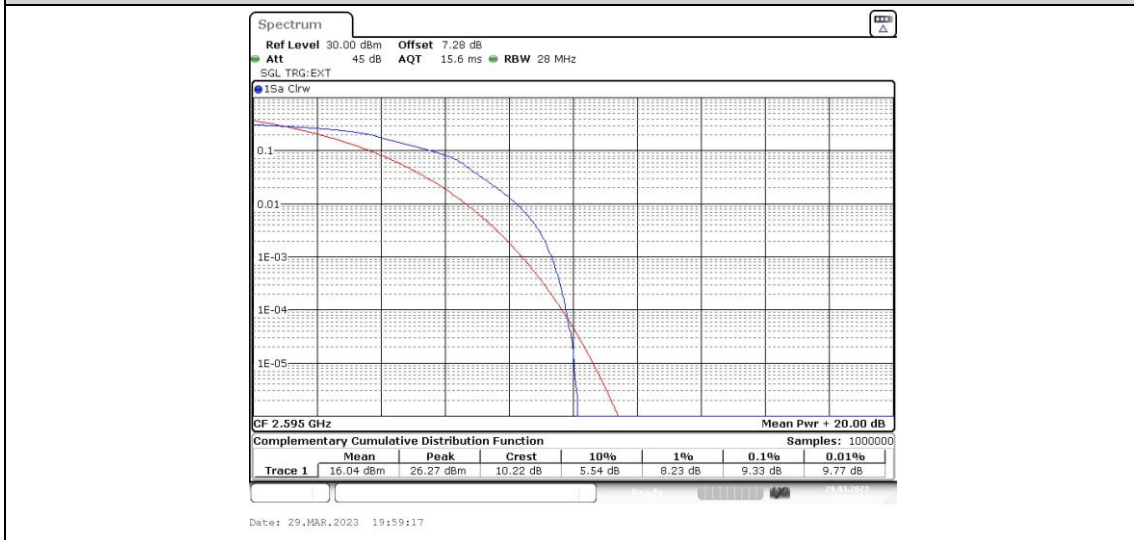
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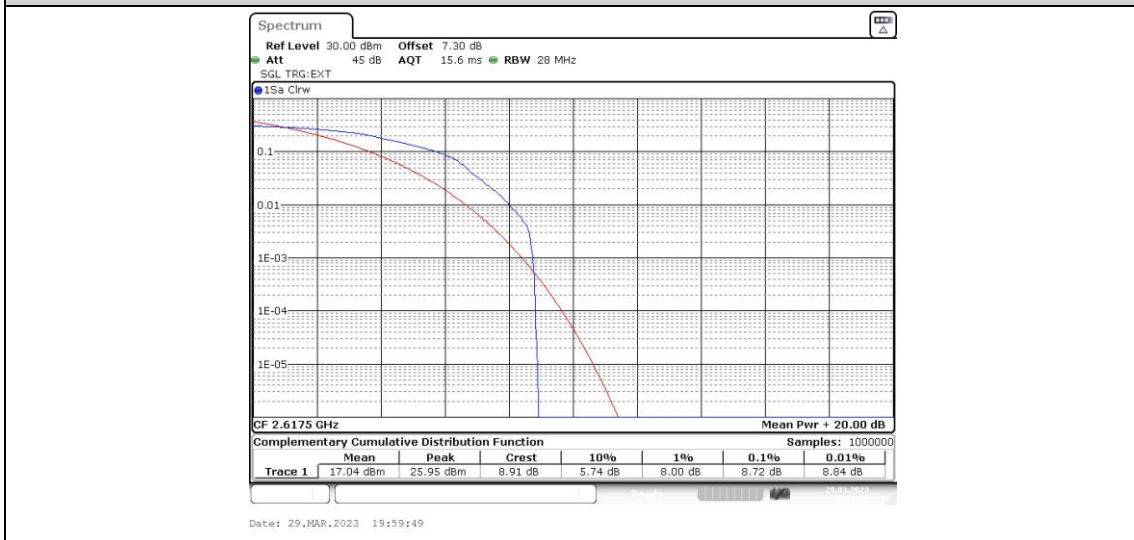
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Band38-5MHz-16QAM-38000-25RB#0



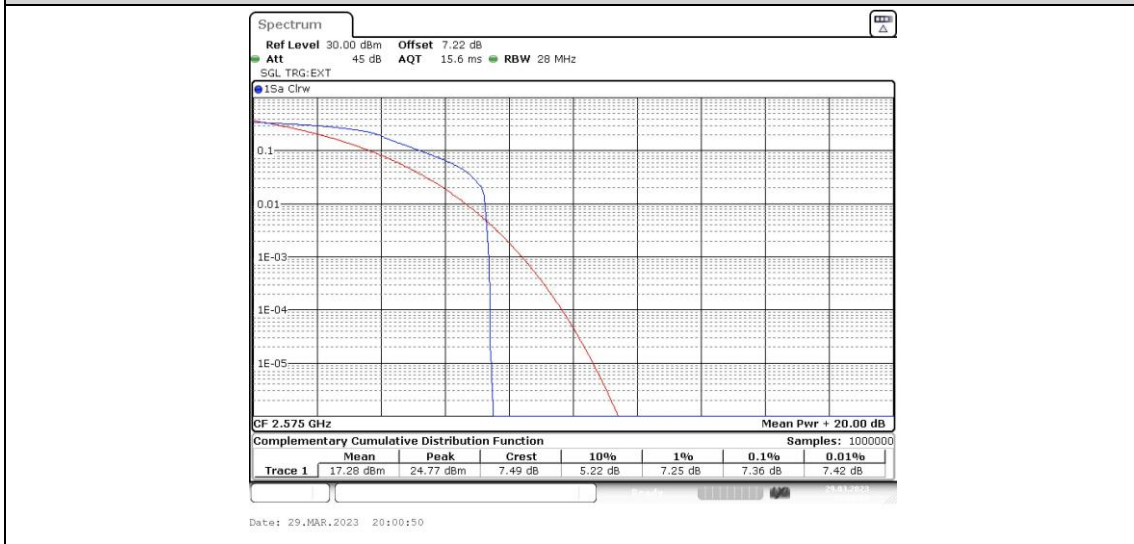
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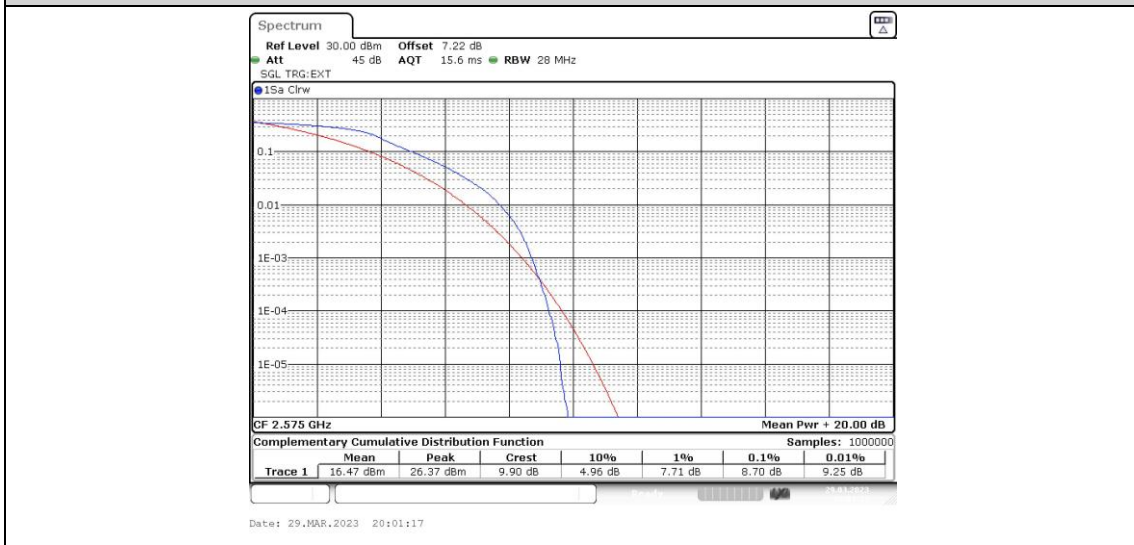
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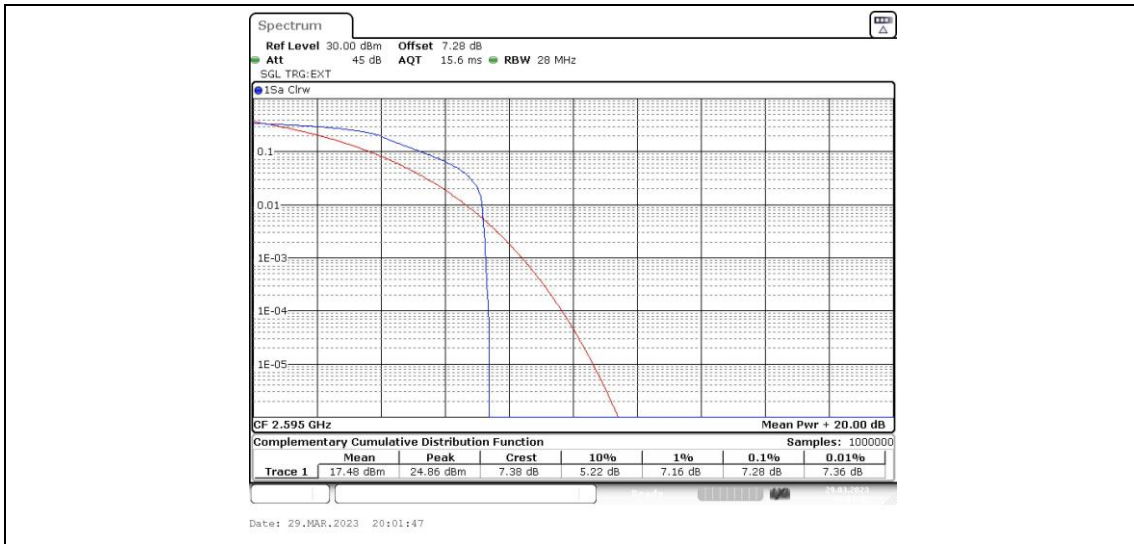
Band38-10MHz-QPSK-37800-1RB#0



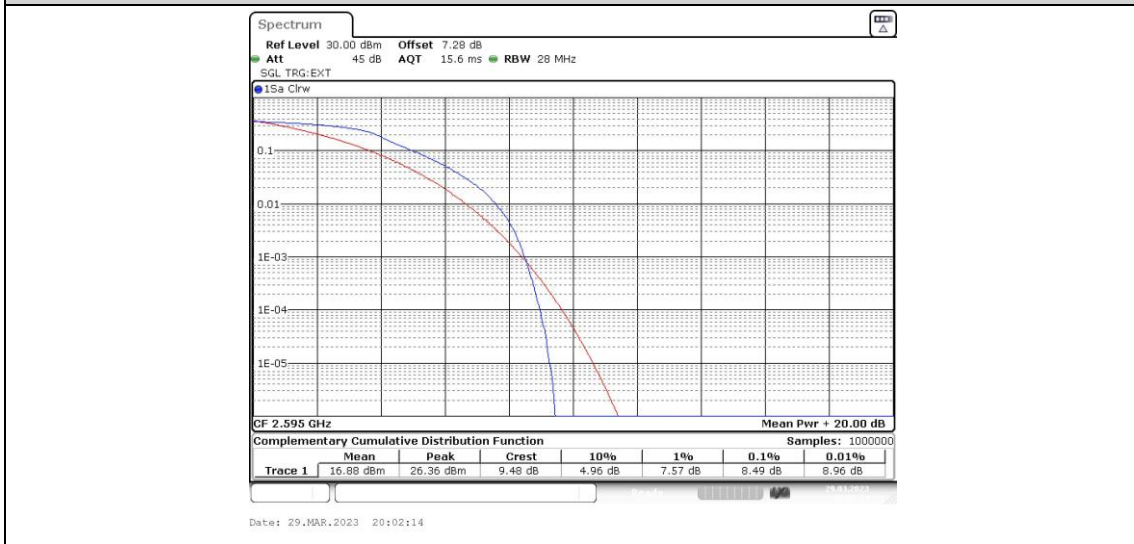
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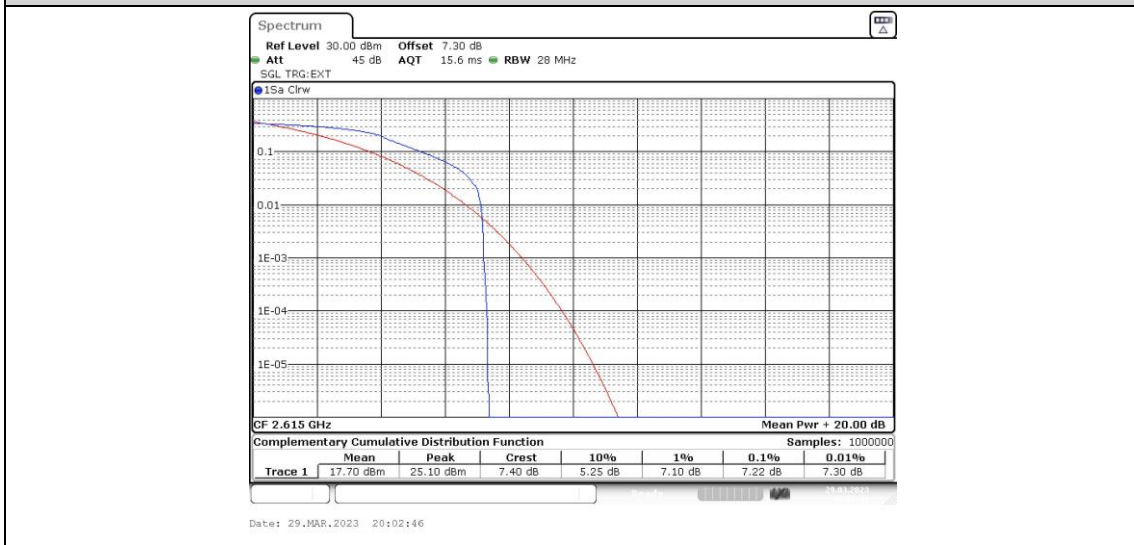
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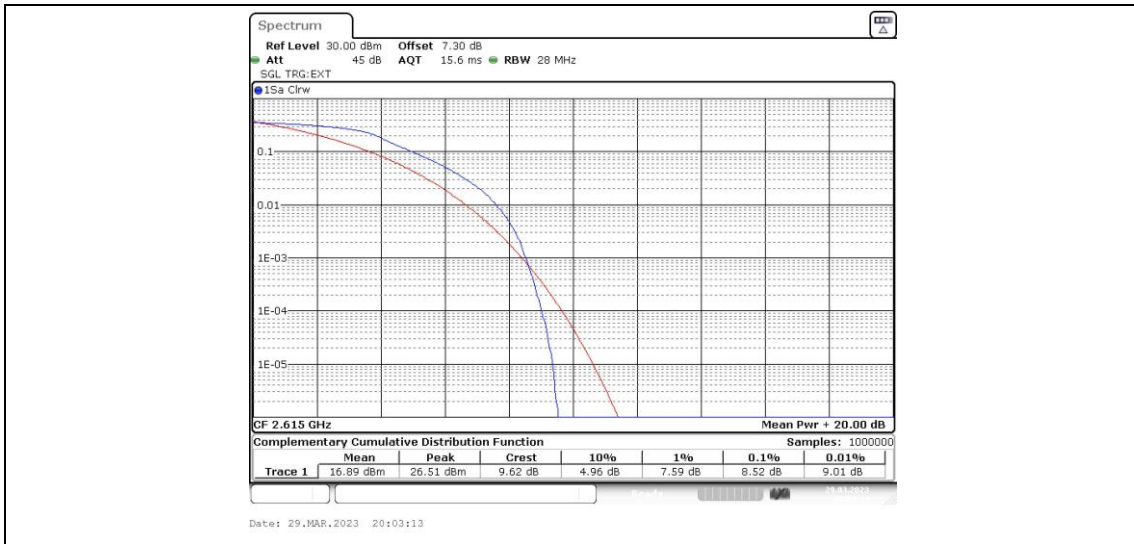
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Band38-10MHz-QPSK-38200-1RB#0



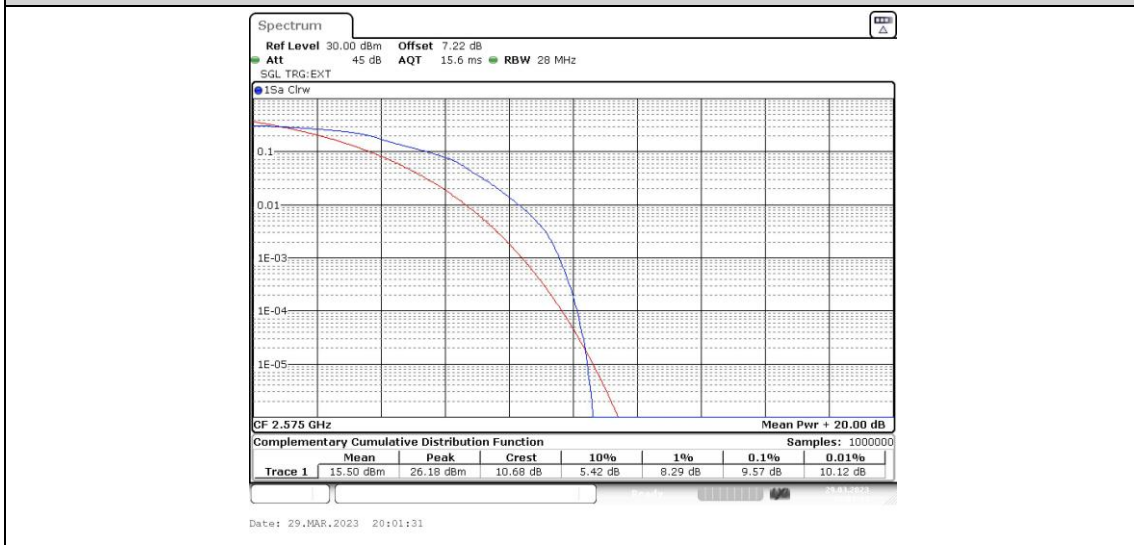
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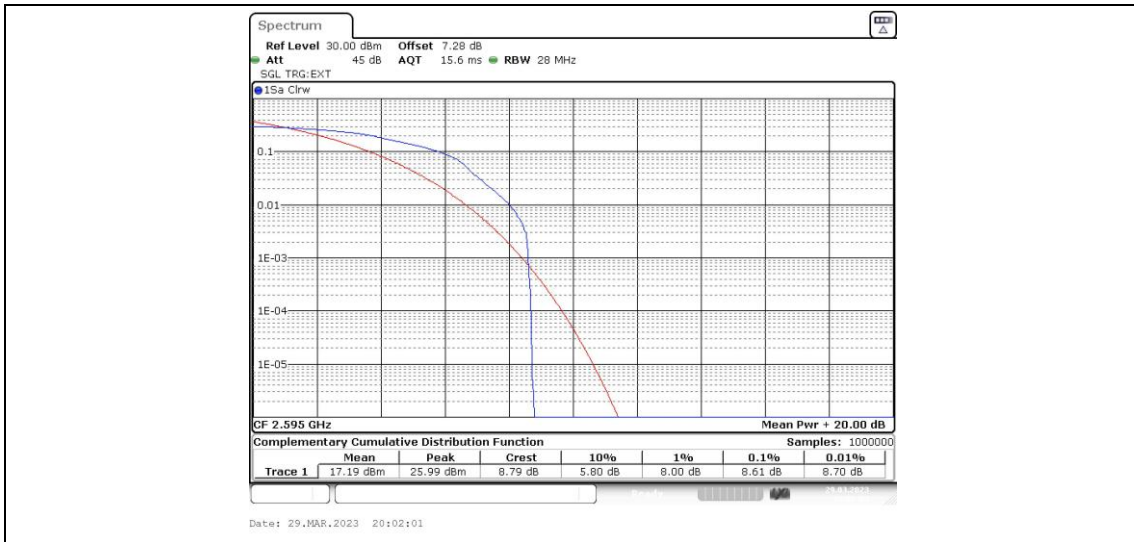
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Band38-10MHz-16QAM-37800-50RB#0



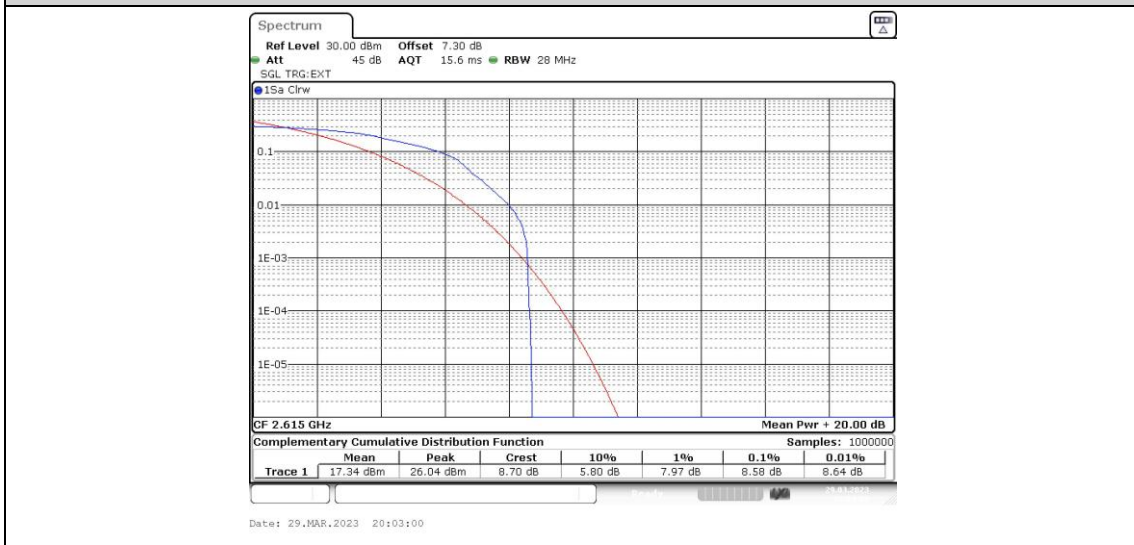
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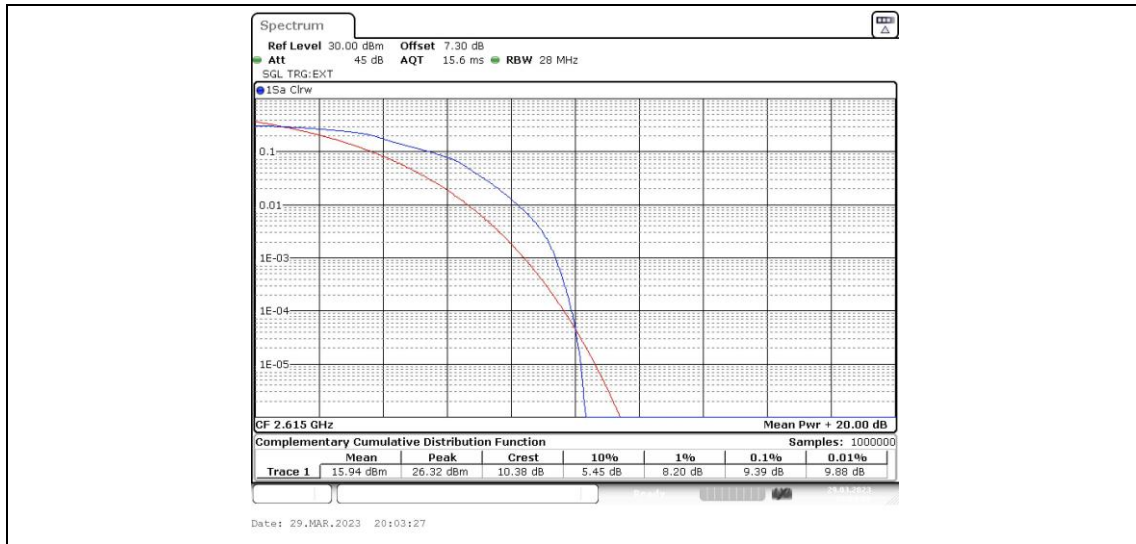


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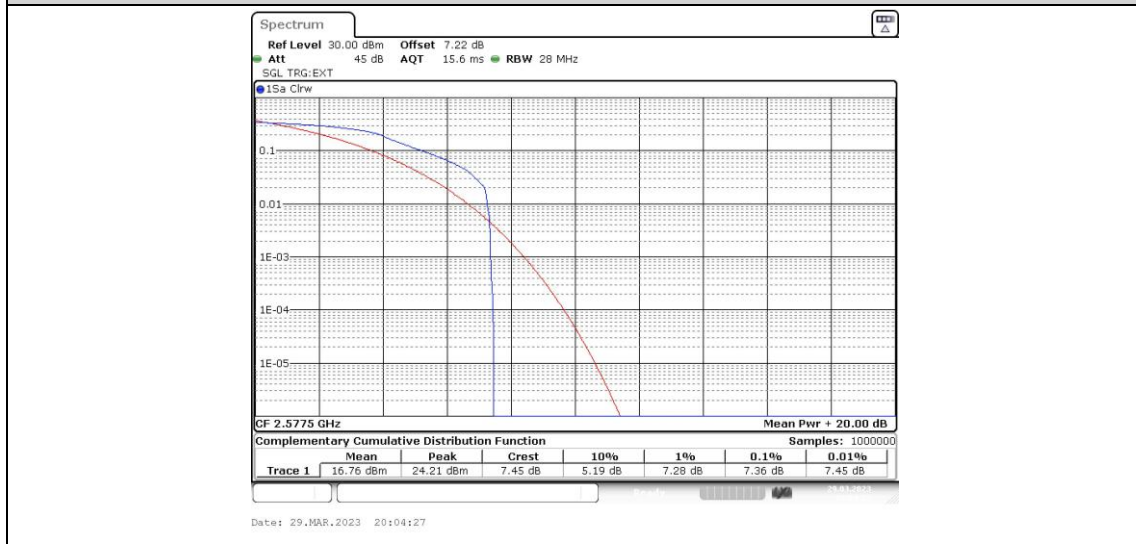


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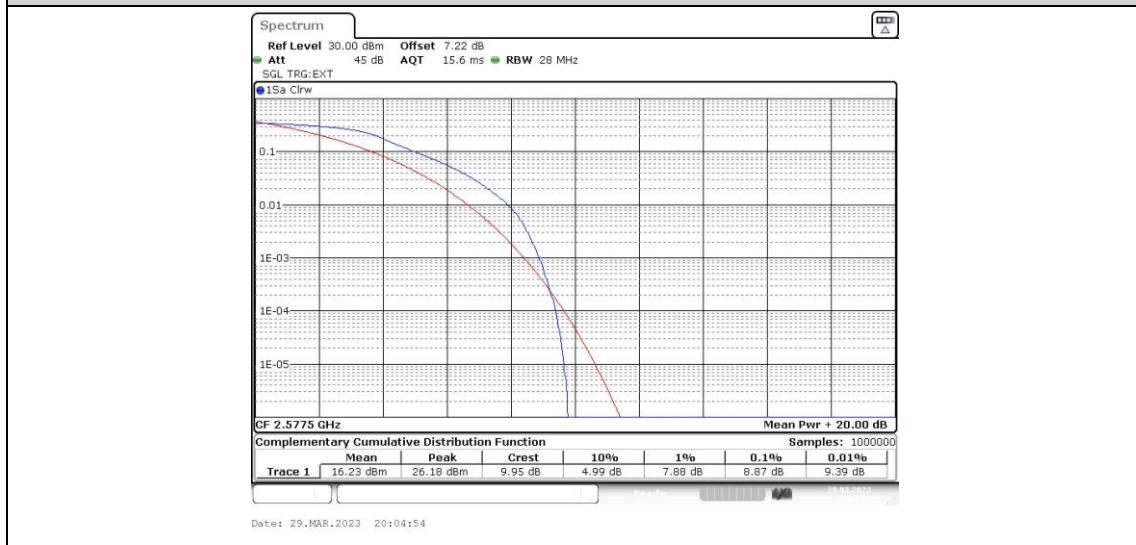




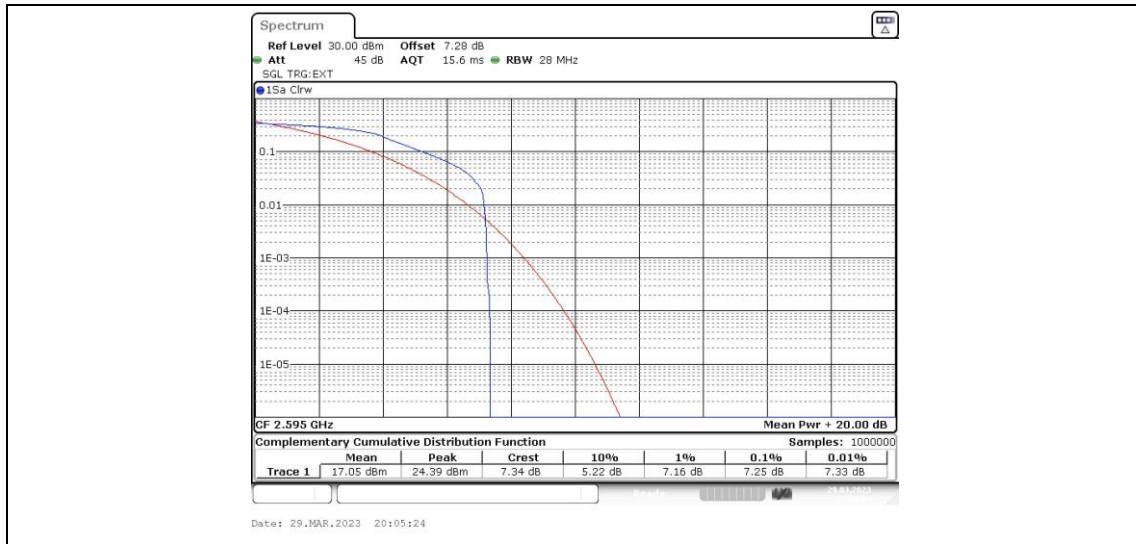
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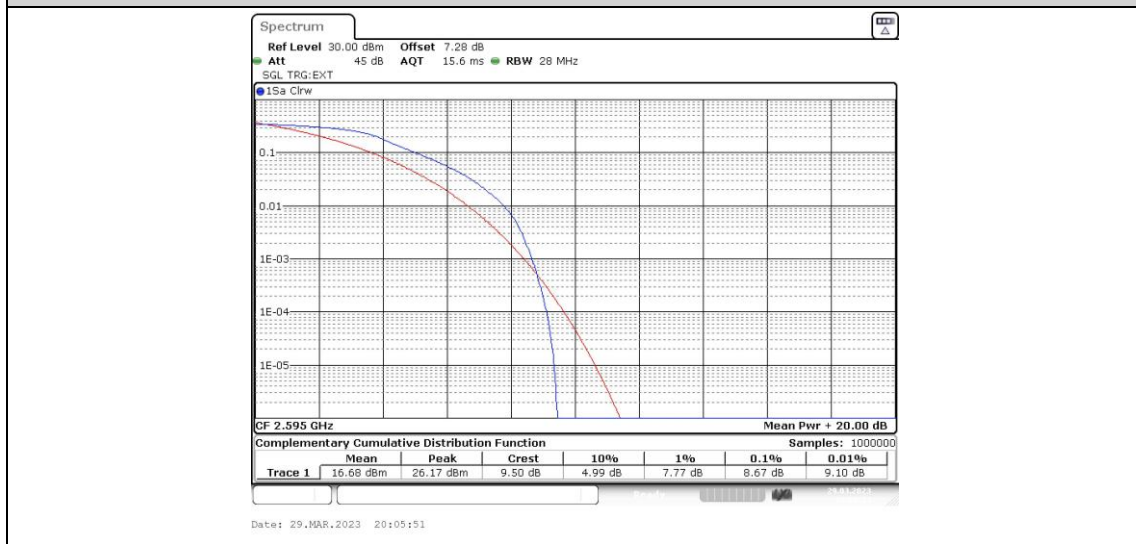
**Band38-15MHz-QPSK-37825-75RB#0**



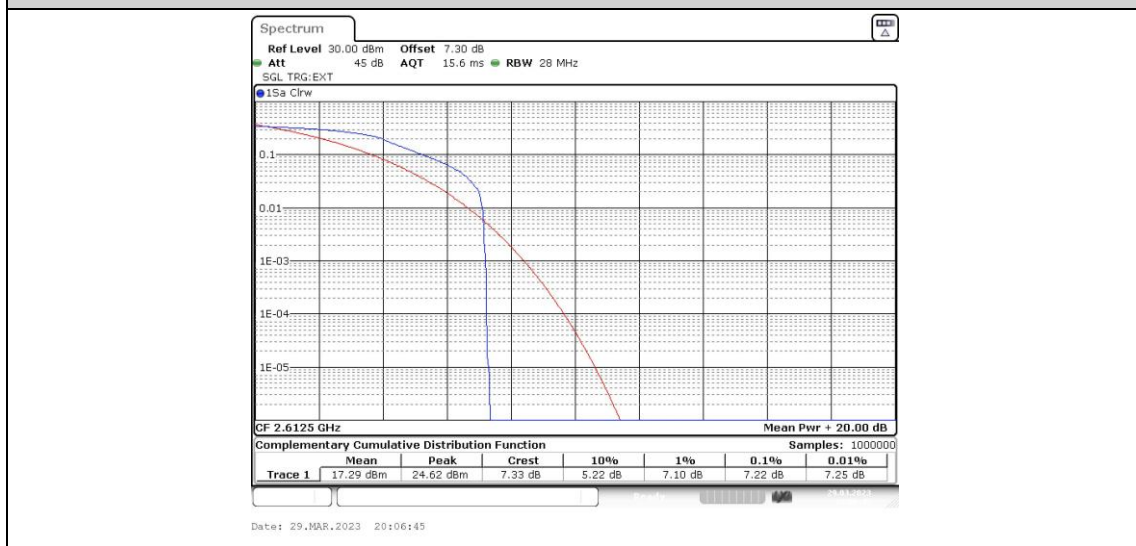
**Band38-15MHz-QPSK-38000-1RB#0**



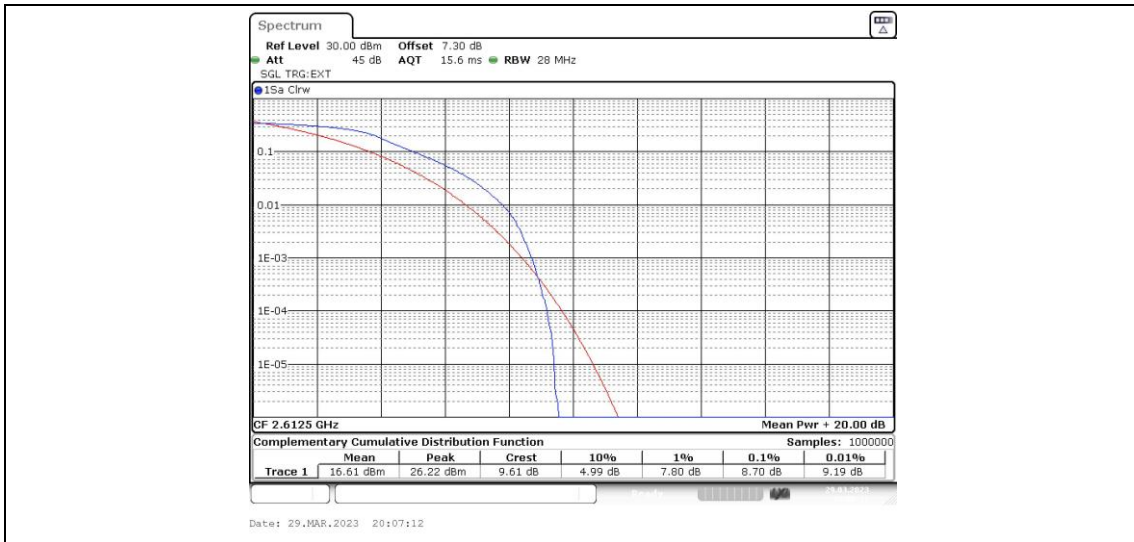
Band38-15MHz-QPSK-38000-75RB#0



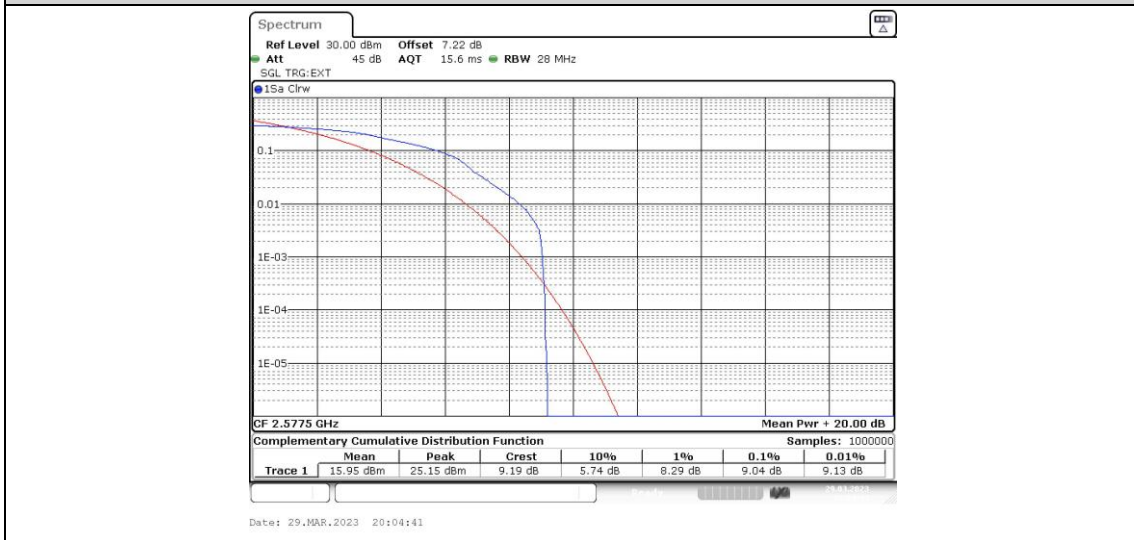
Band38-15MHz-QPSK-38175-1RB#0



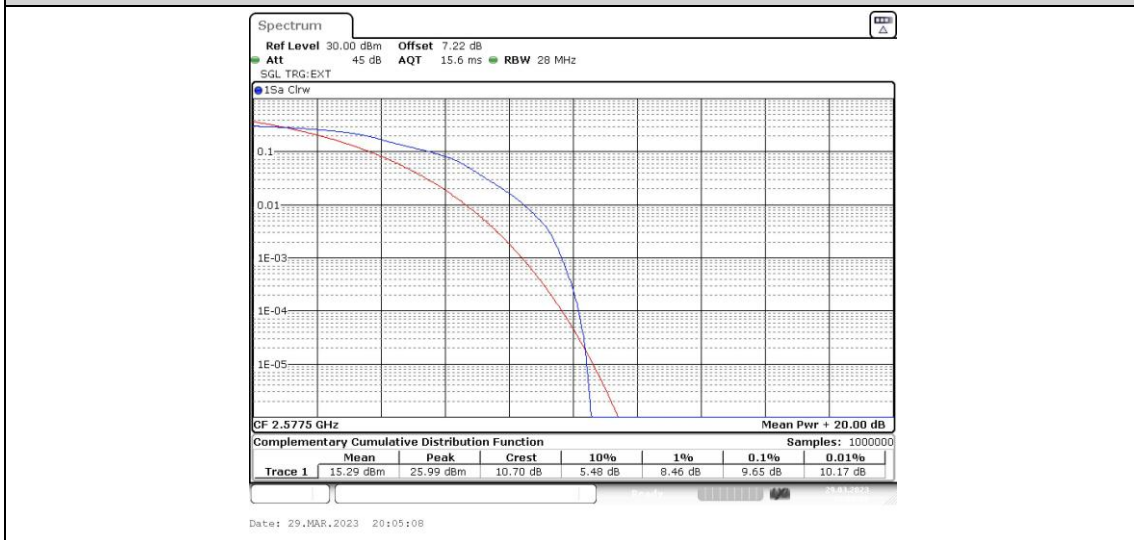
Band38-15MHz-QPSK-38175-75RB#0



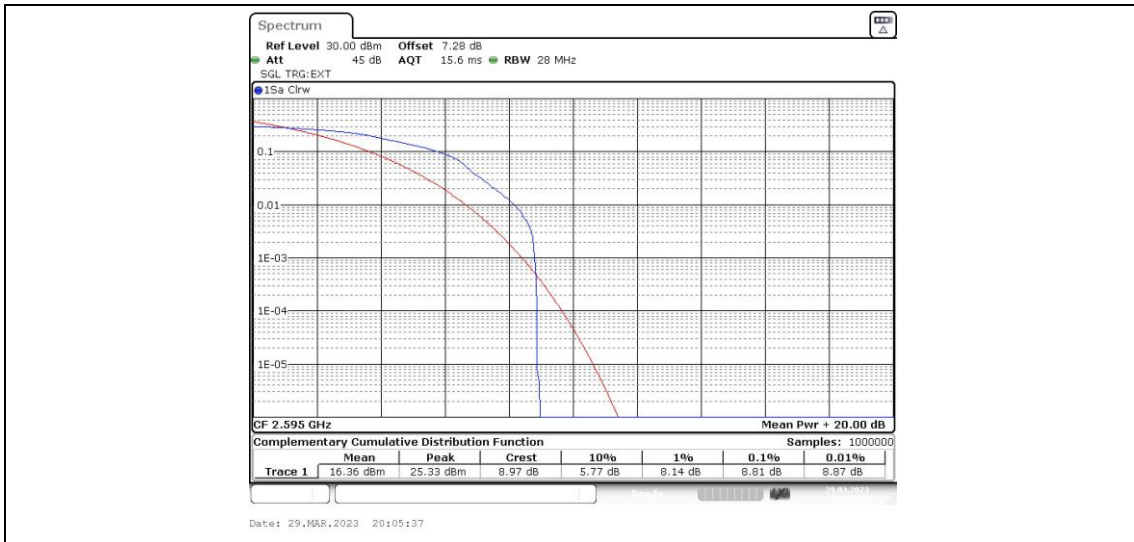
Band38-15MHz-16QAM-37825-1RB#0



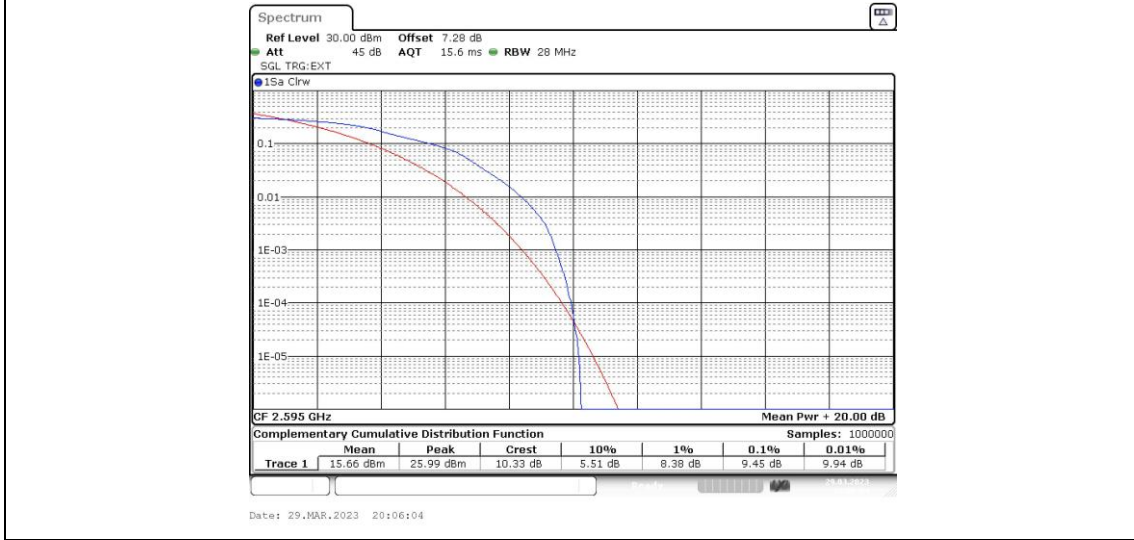
Band38-15MHz-16QAM-37825-75RB#0



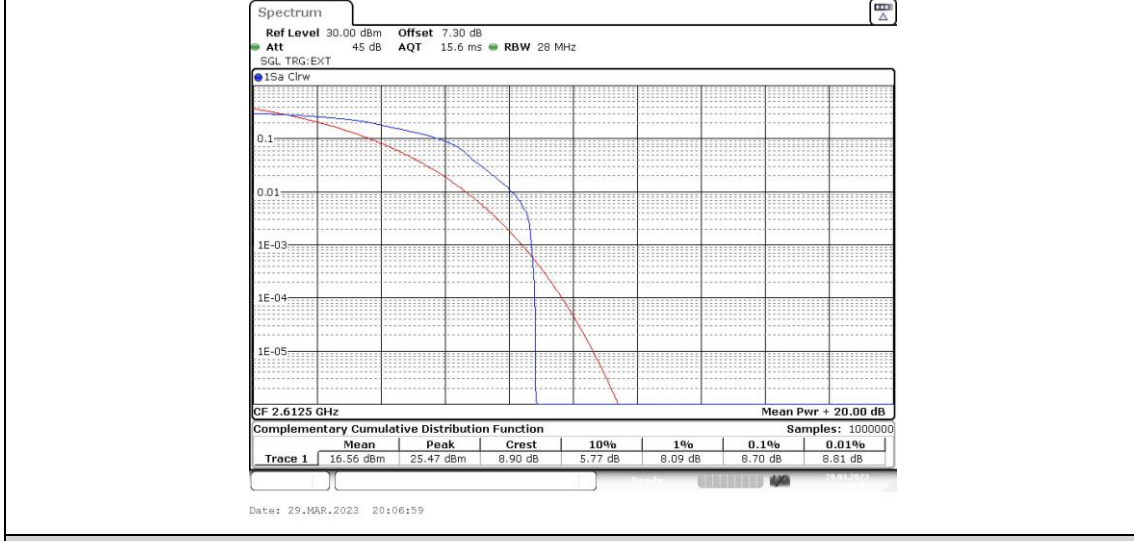
Band38-15MHz-16QAM-38000-1RB#0



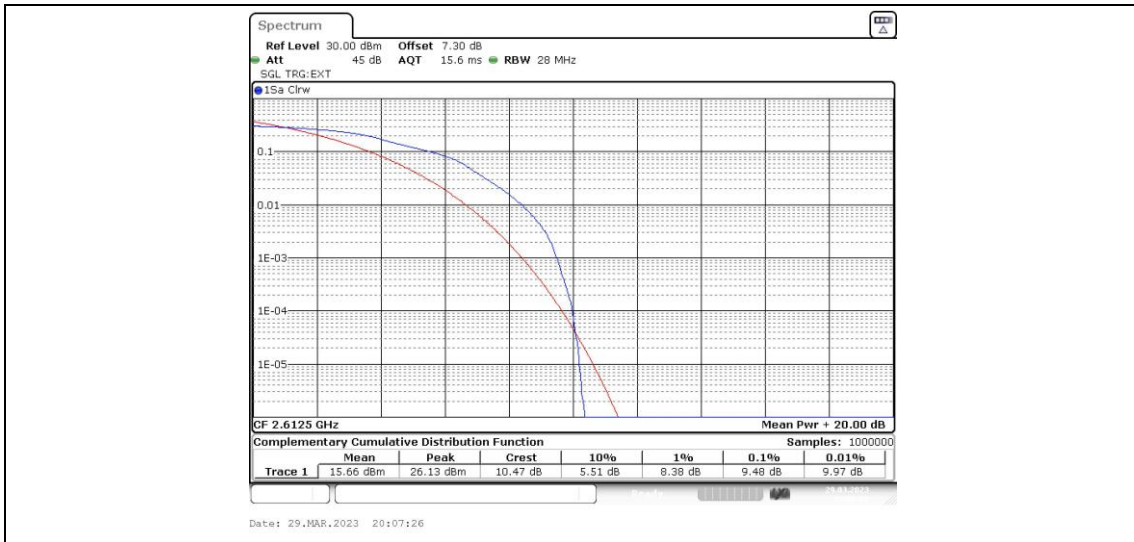
**Band38-15MHz-16QAM-38000-75RB#0**



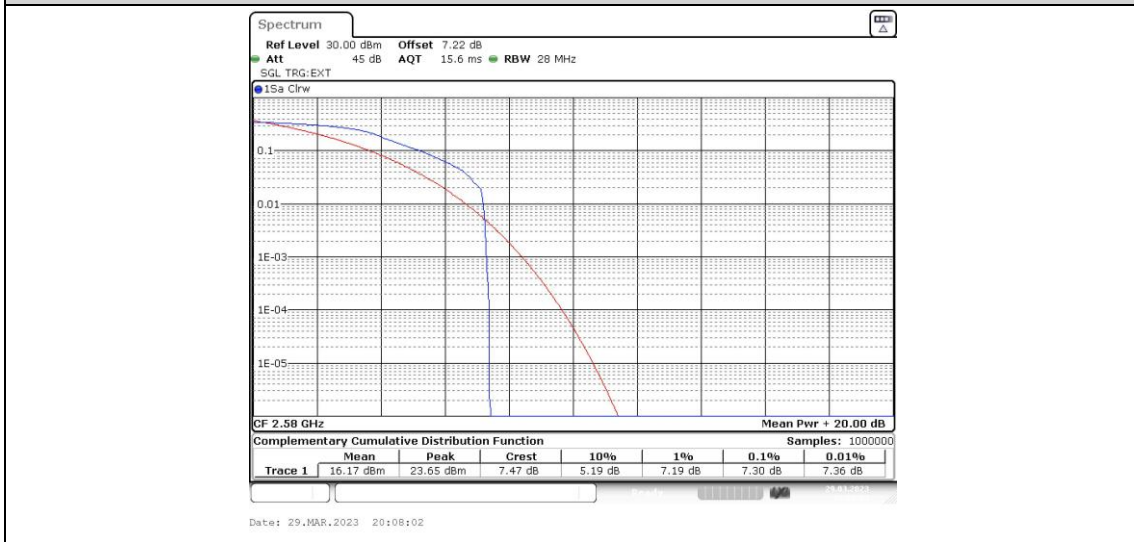
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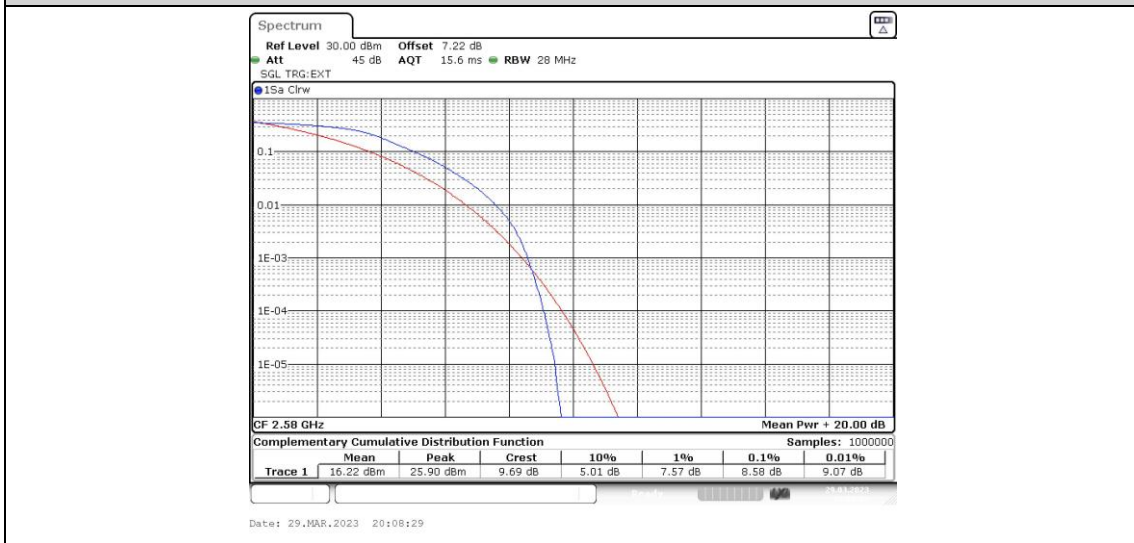
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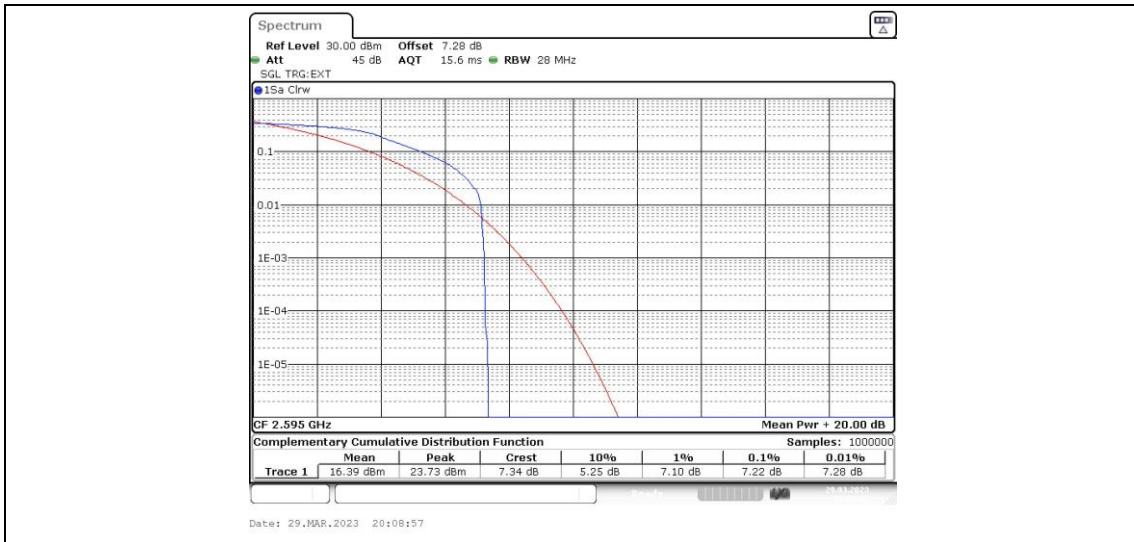
Band38-20MHz-QPSK-37850-1RB#0



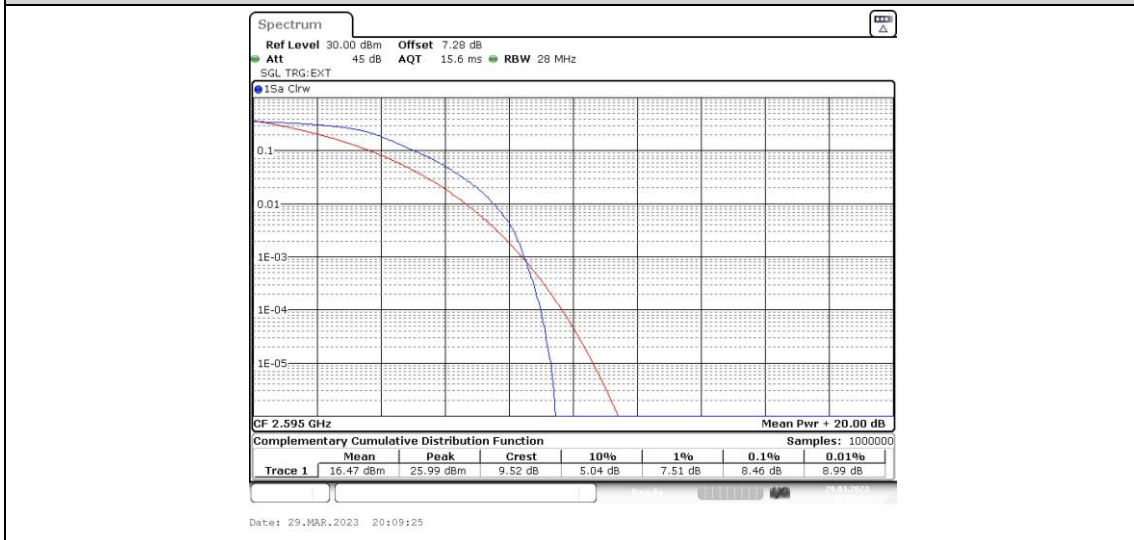
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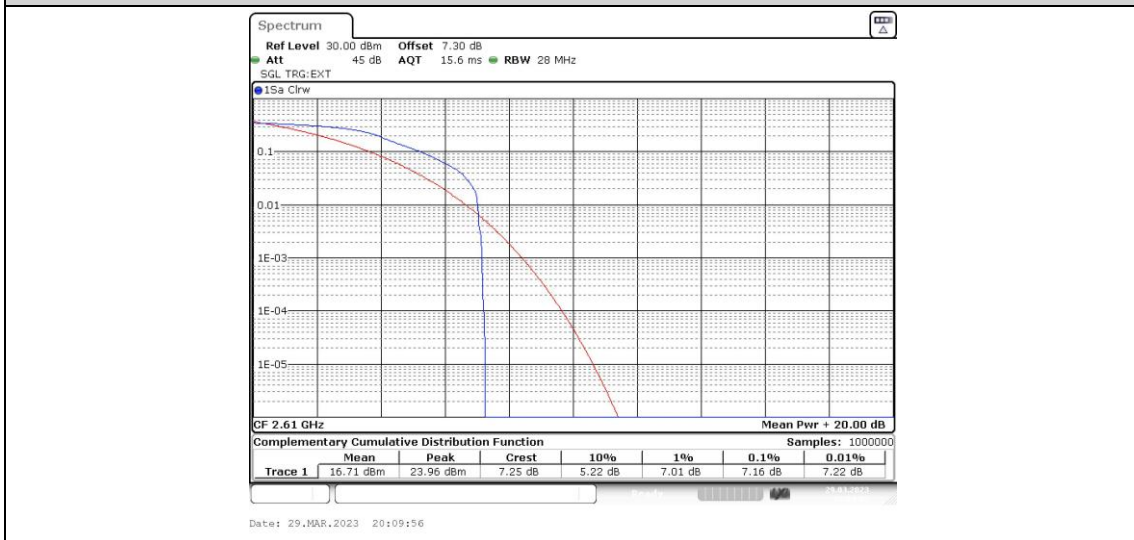
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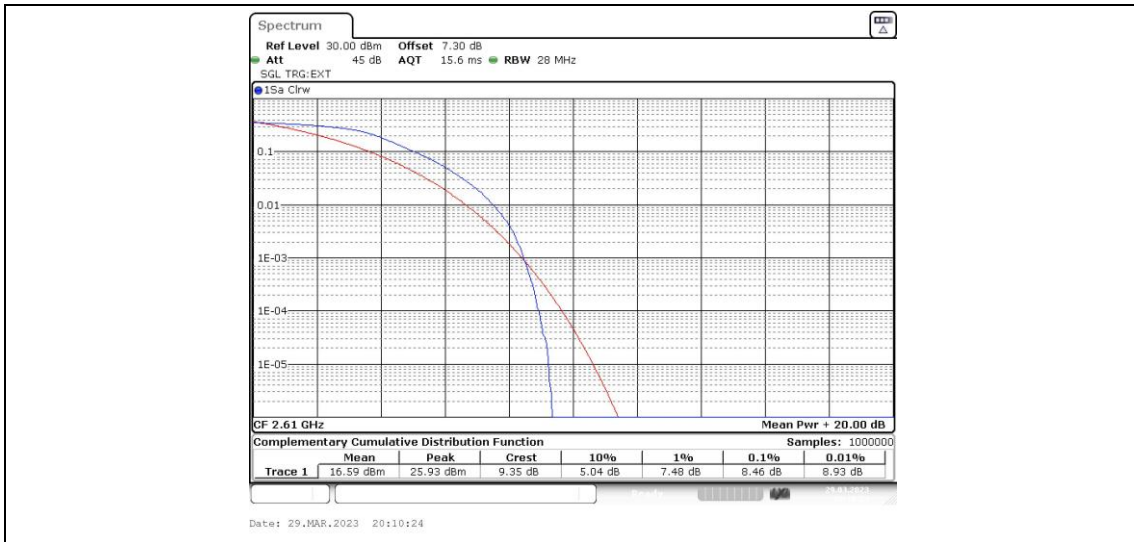
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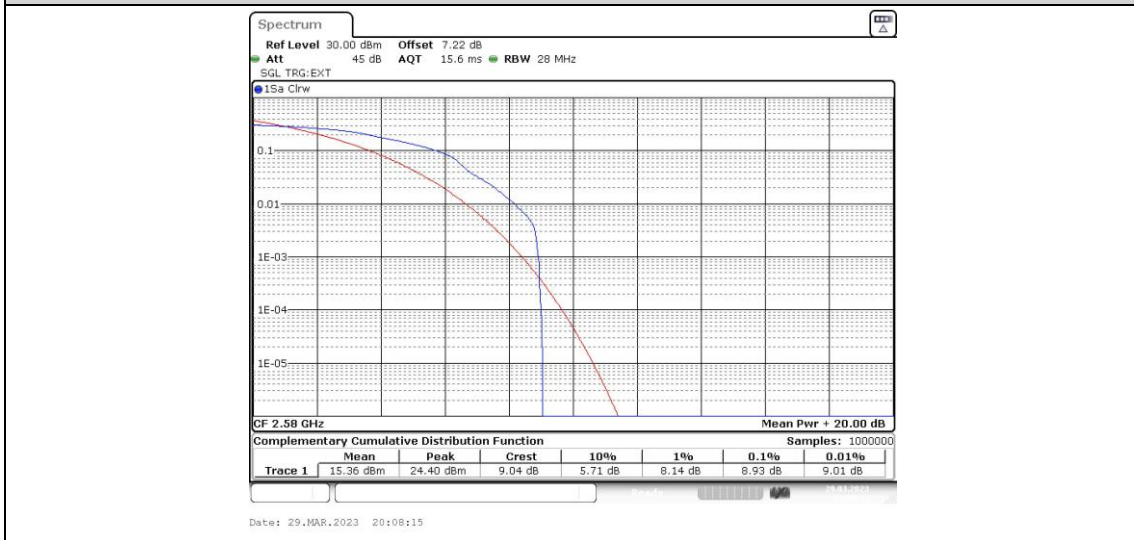
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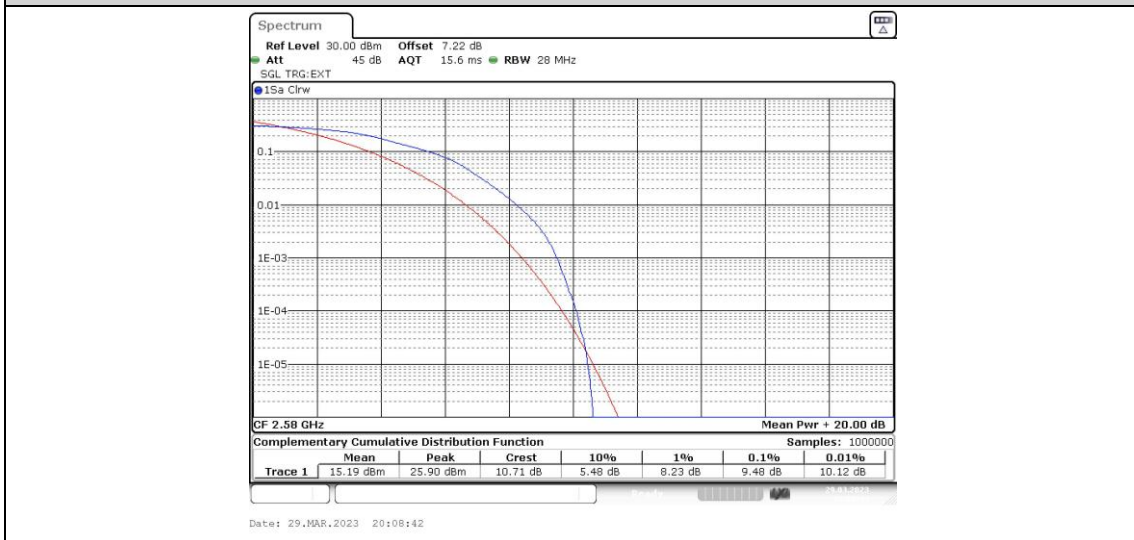
Band38-20MHz-QPSK-38150-100RB#0



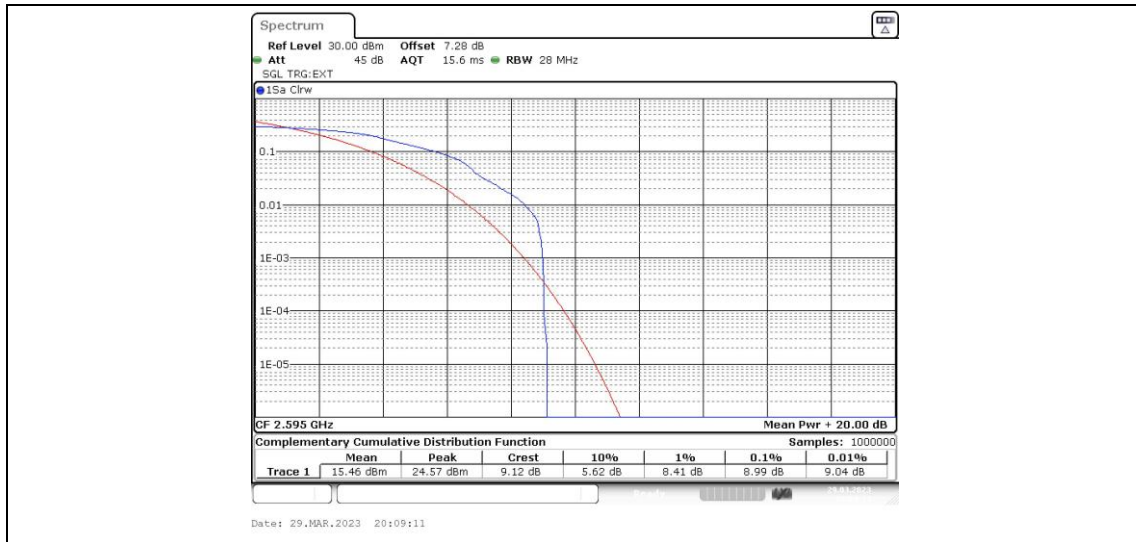
Band38-20MHz-16QAM-37850-1RB#0



Band38-20MHz-16QAM-37850-100RB#0



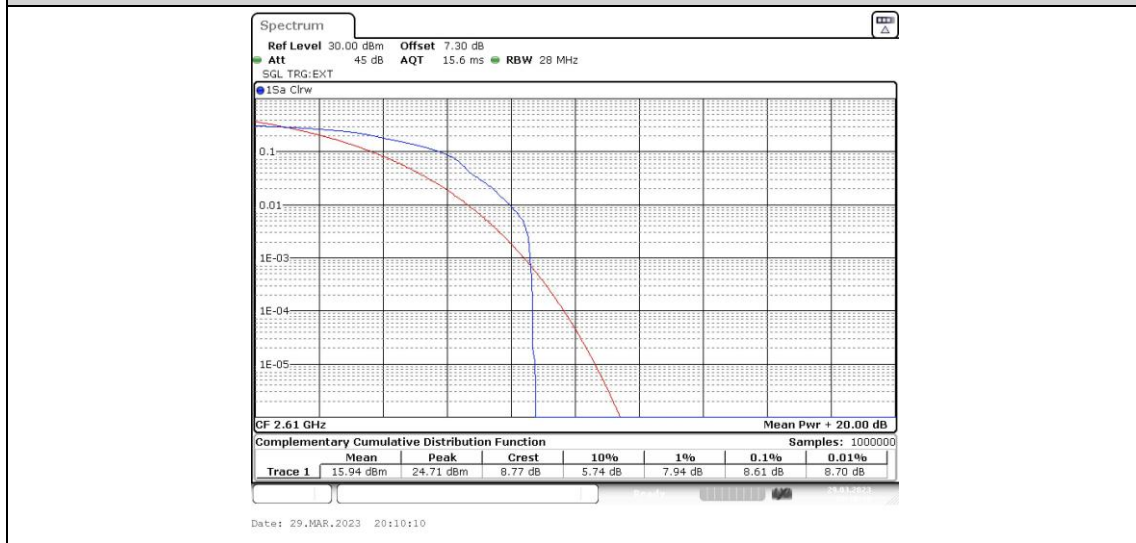
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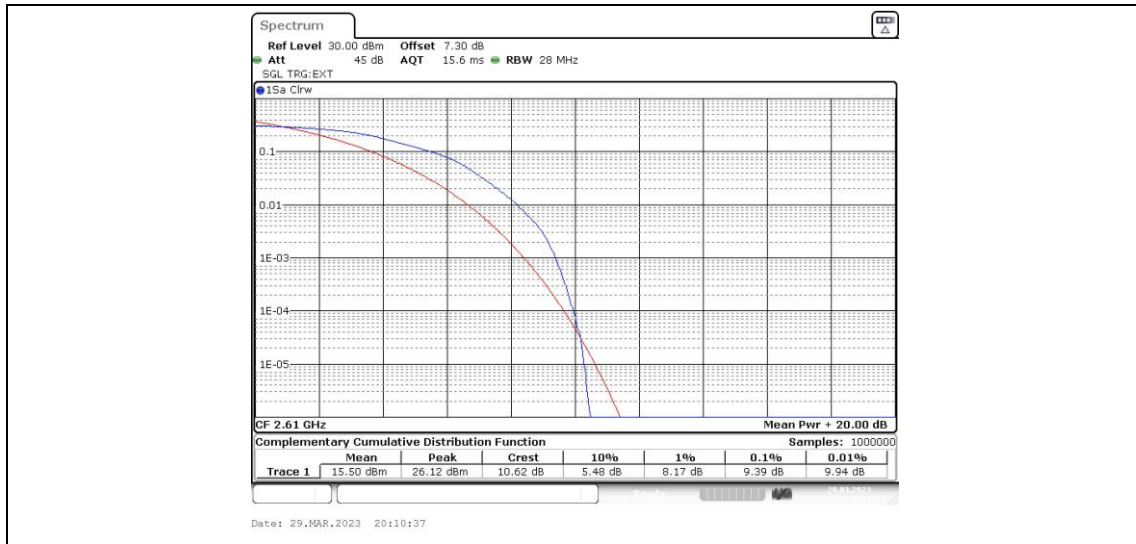


Band38-20MHz-16QAM-38150-1RB#0



Band38-20MHz-16QAM-38150-100RB#0



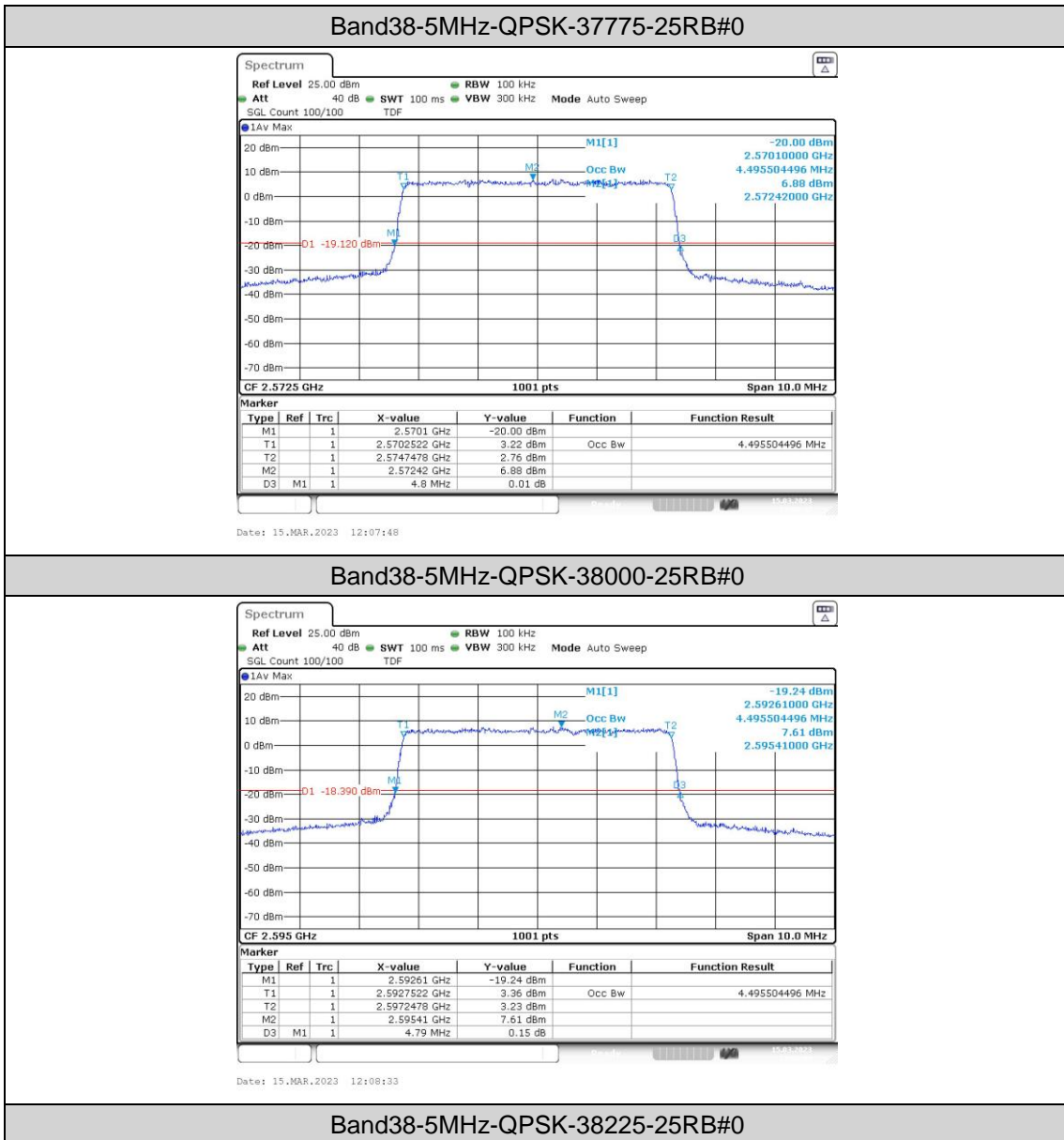


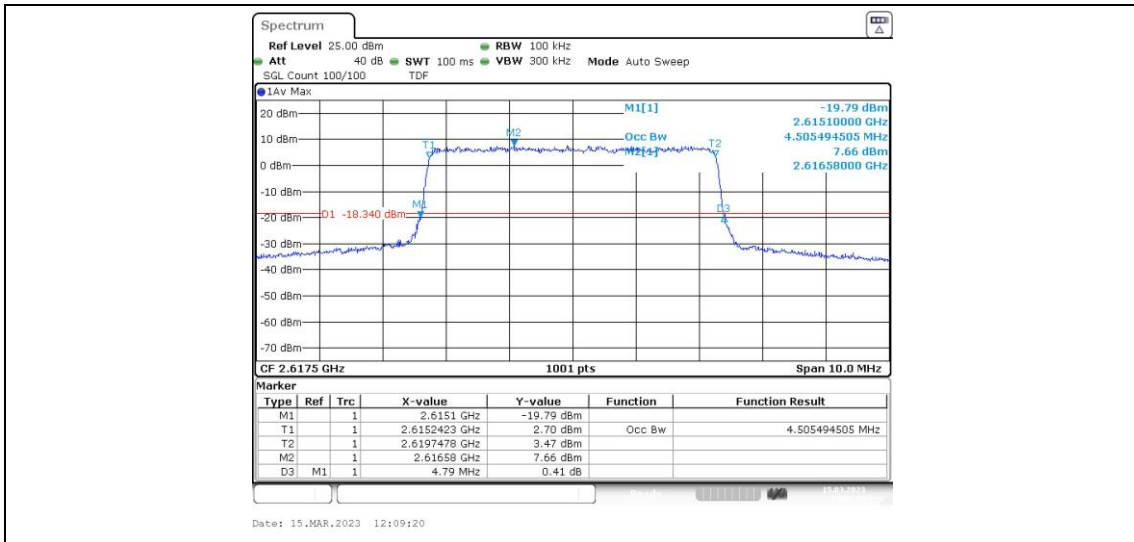
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

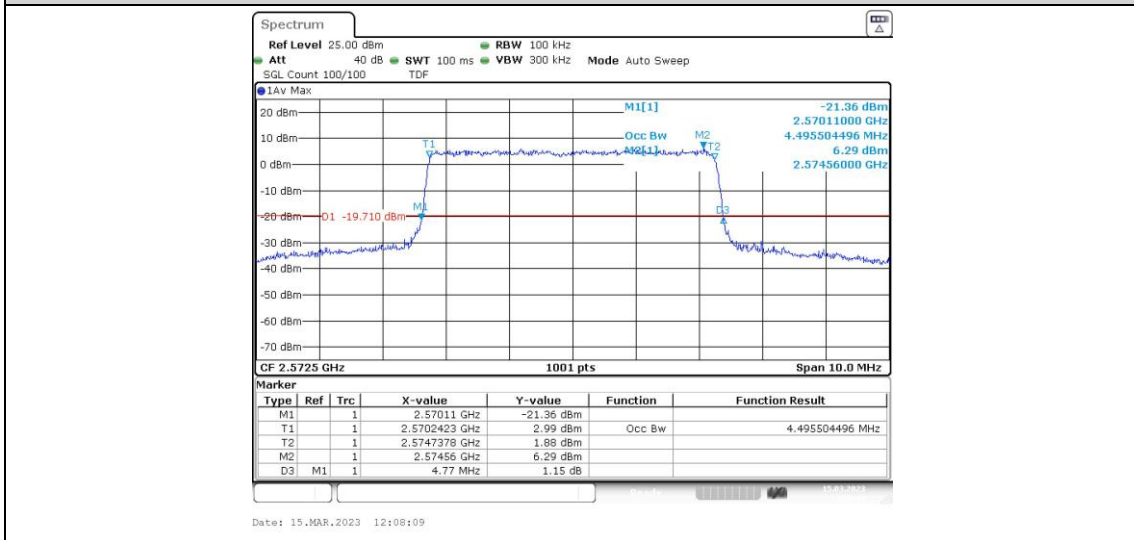
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.496	4.80	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.496	4.79	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.505	4.79	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.496	4.77	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	4.78	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.496	4.77	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.985	9.53	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.985	9.53	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.985	9.53	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.985	9.53	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.985	9.53	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.985	9.53	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.478	14.30	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.478	14.30	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.478	14.30	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.478	14.30	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.478	14.30	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.478	14.30	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.97	19.33	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.97	19.33	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.97	19.33	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.97	19.33	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.97	19.33	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.97	19.33	PASS

### Test Graphs

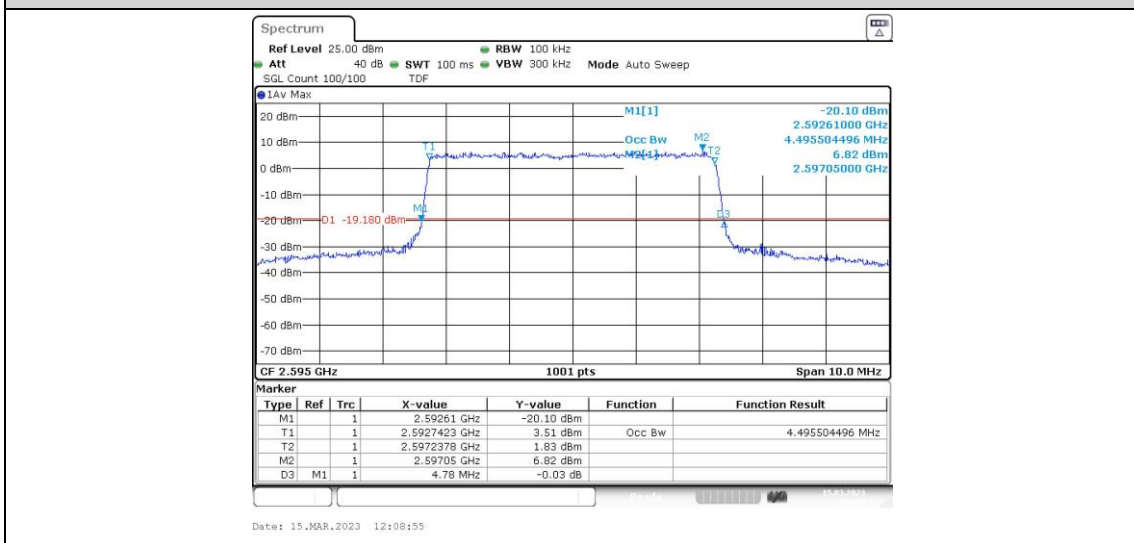




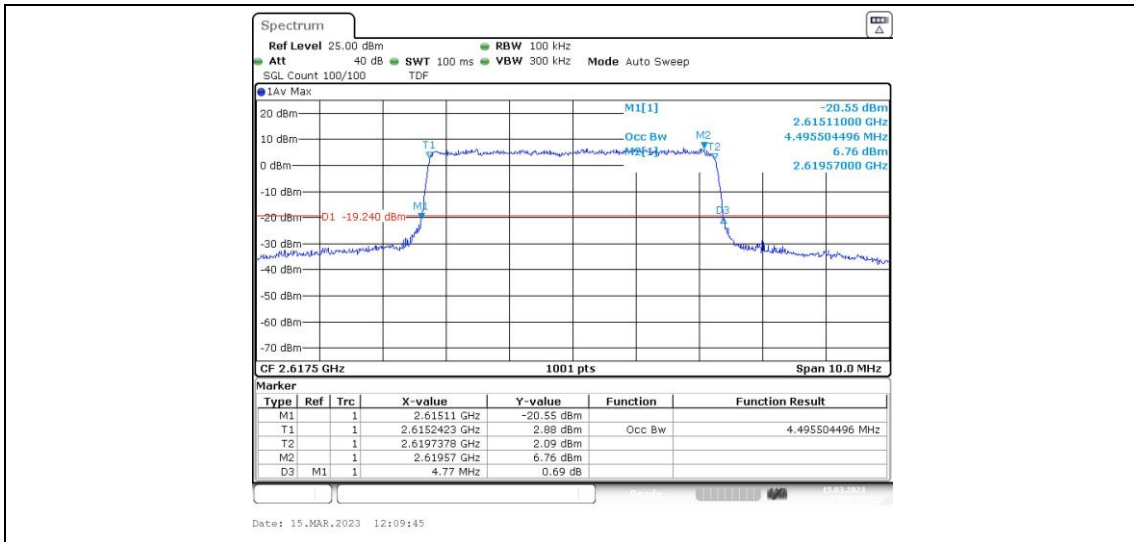
Band38-5MHz-16QAM-37775-25RB#0



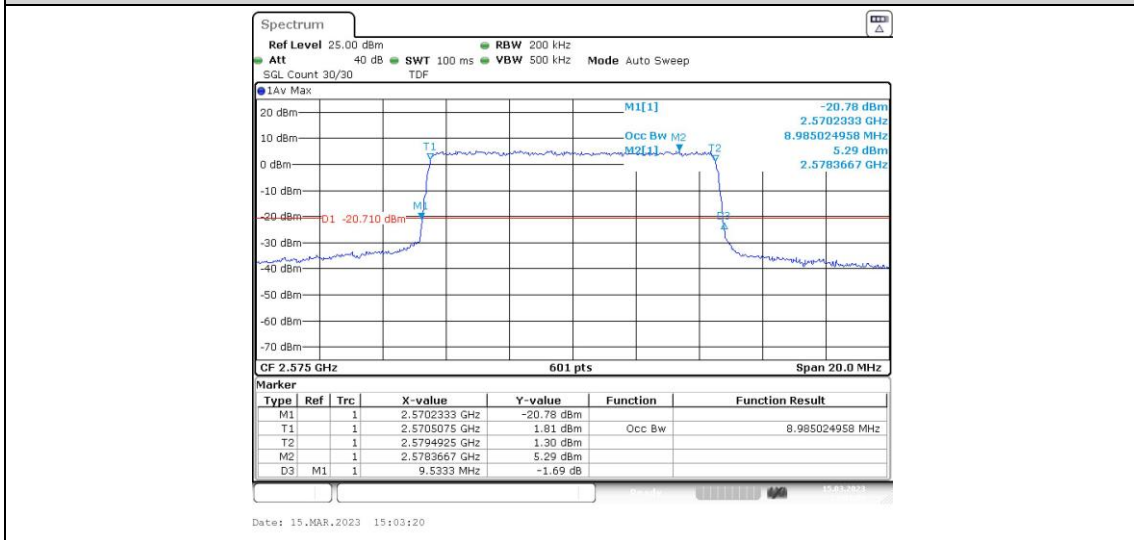
Band38-5MHz-16QAM-38000-25RB#0



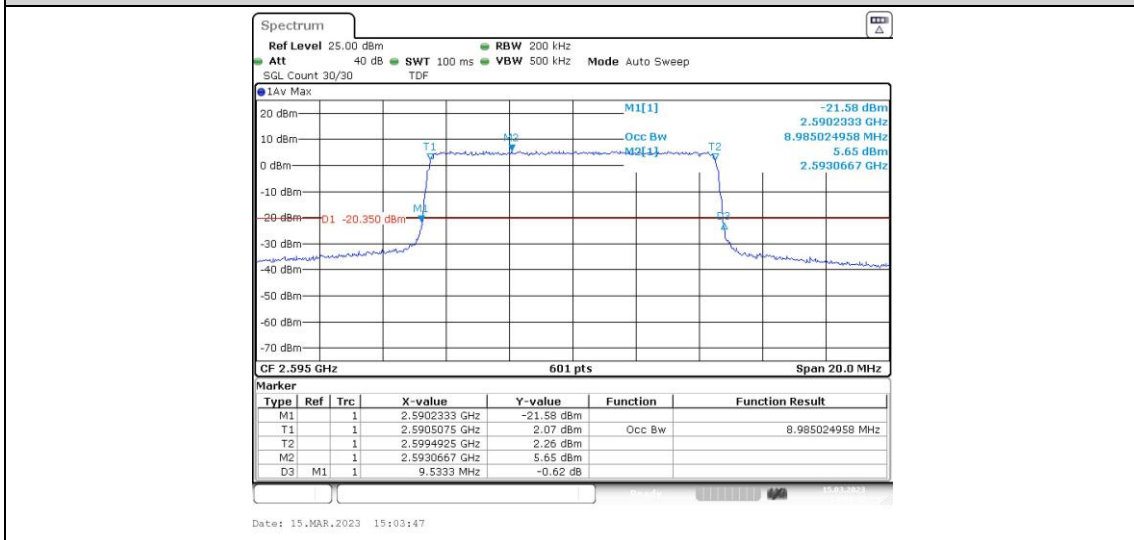
Band38-5MHz-16QAM-38225-25RB#0



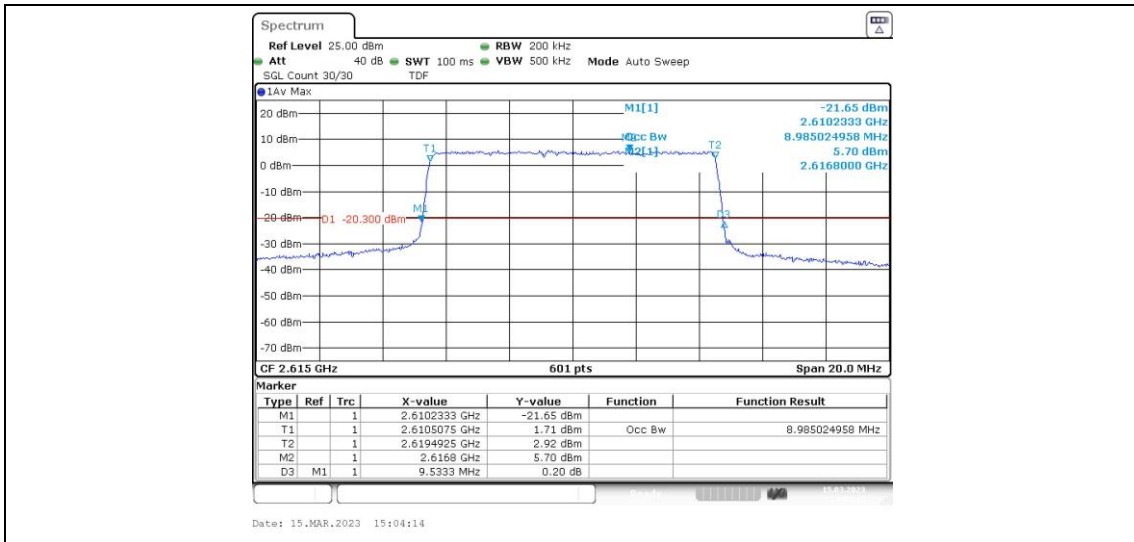
Band38-10MHz-QPSK-37800-50RB#0



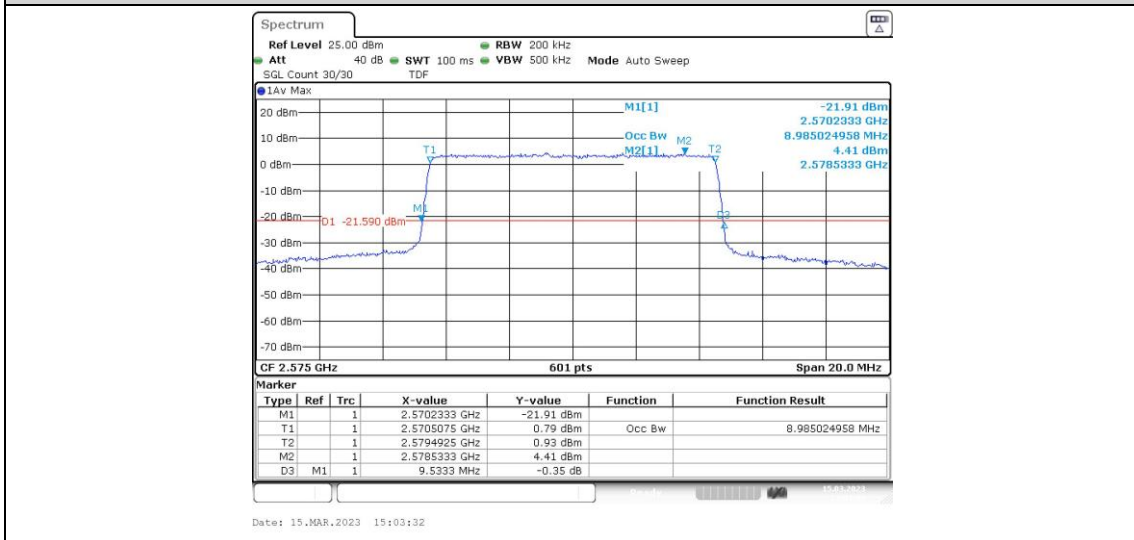
Band38-10MHz-QPSK-38000-50RB#0



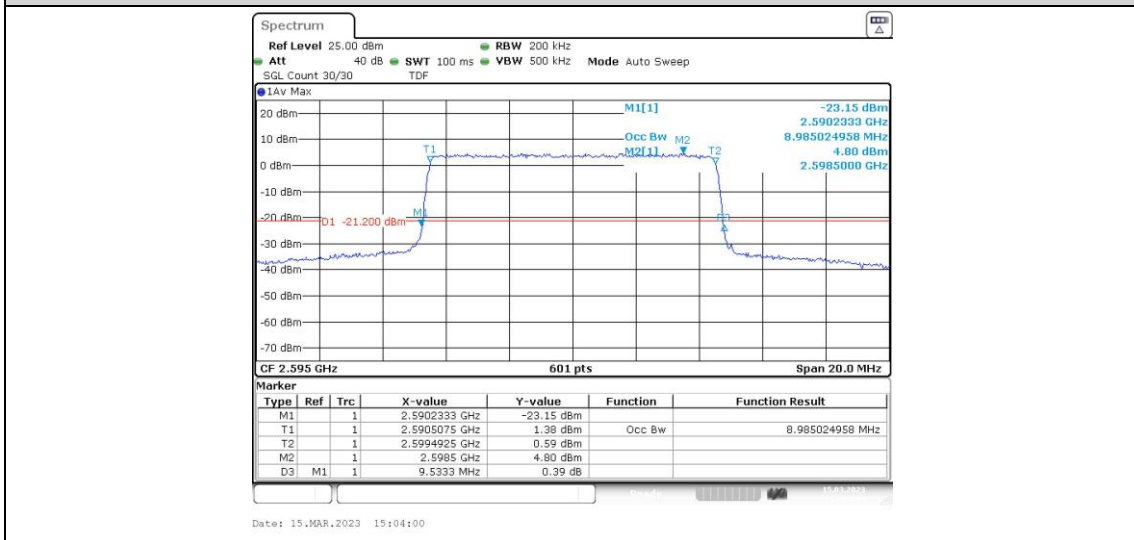
Band38-10MHz-QPSK-38200-50RB#0



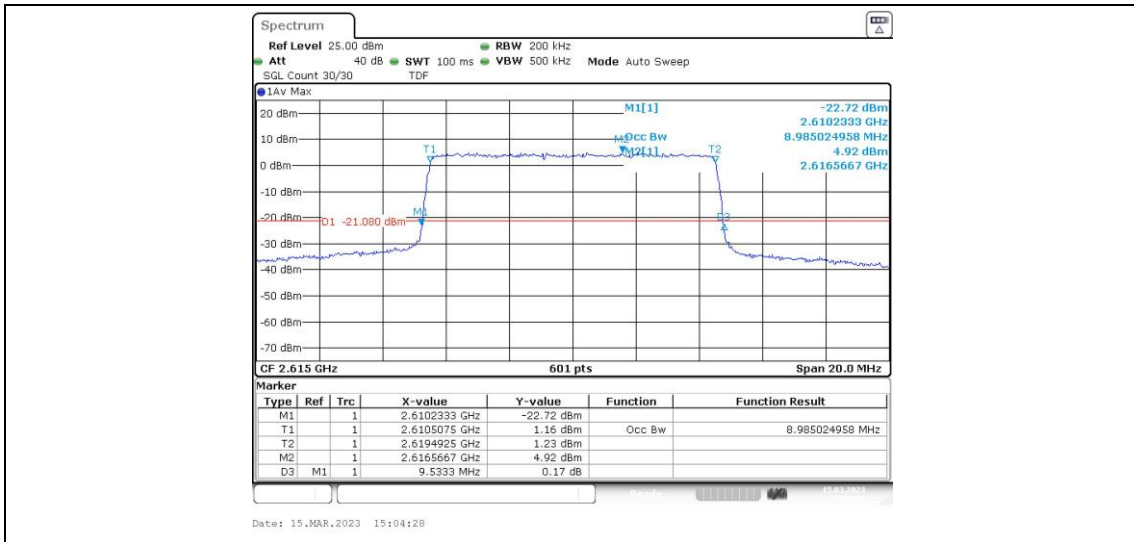
**Band38-10MHz-16QAM-37800-50RB#0**



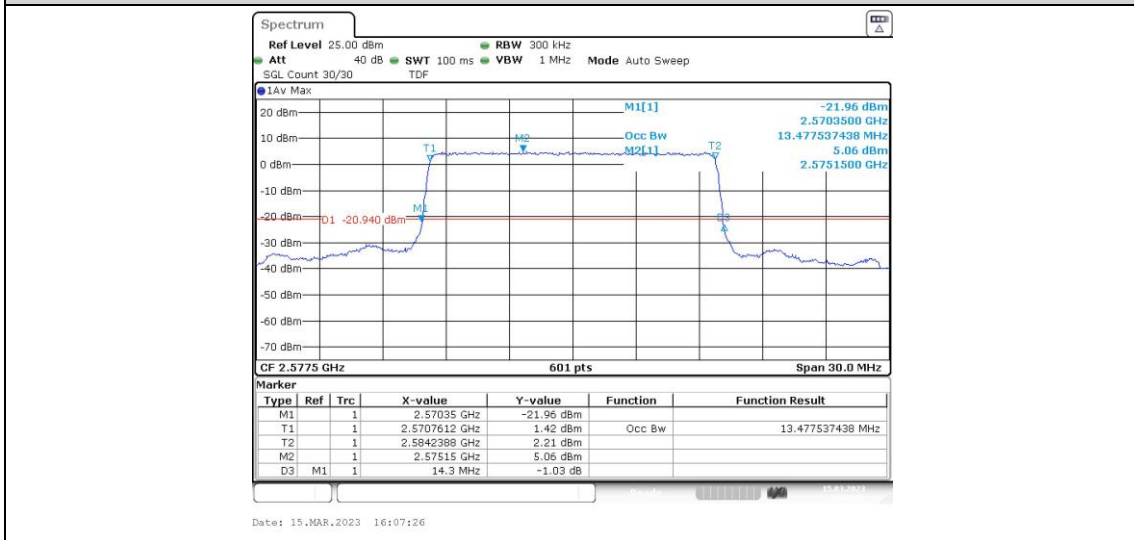
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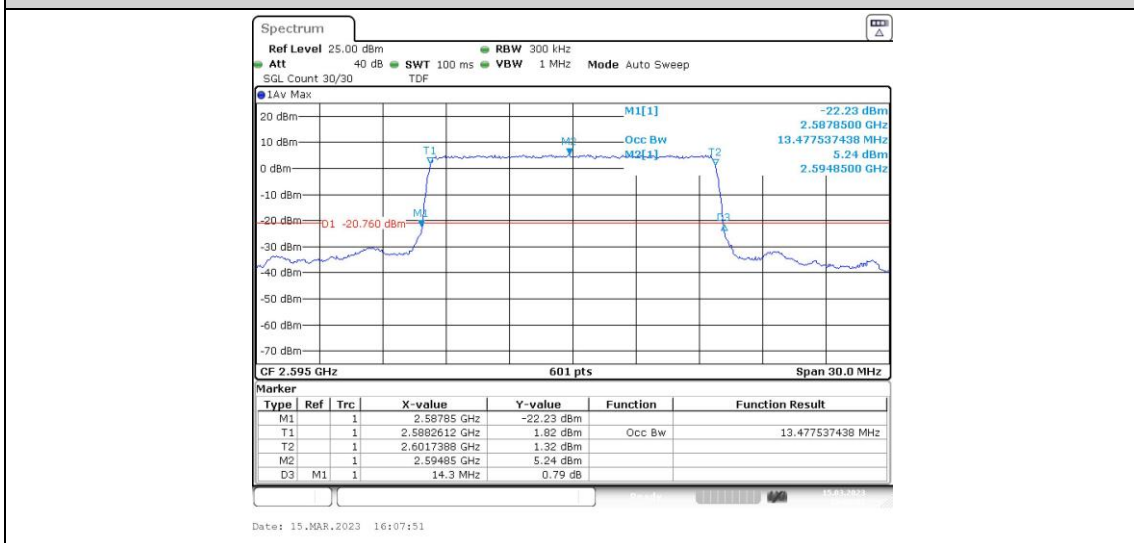
**Band38-10MHz-16QAM-38200-50RB#0**



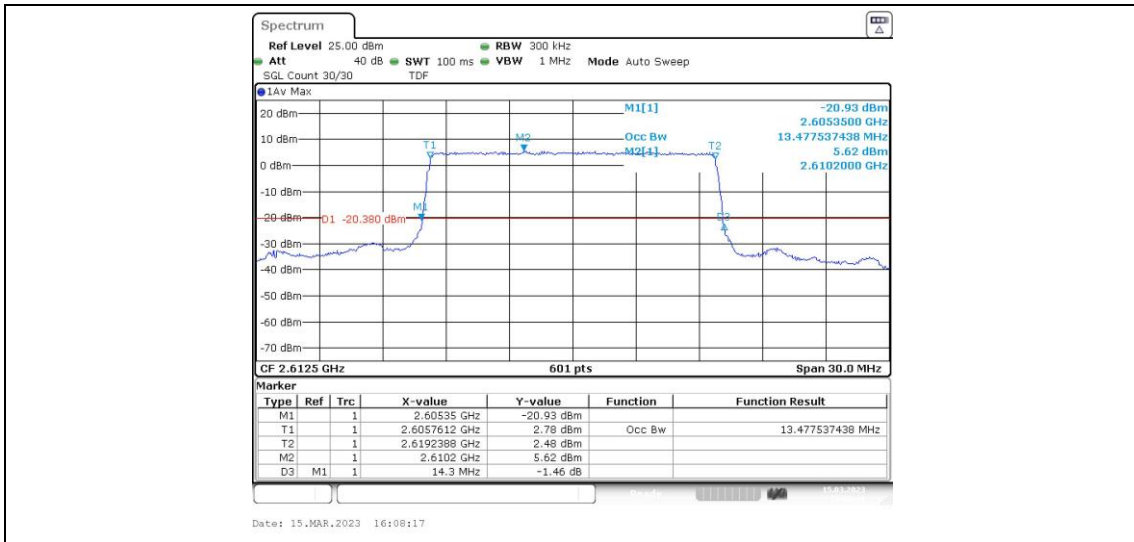
Band38-15MHz-QPSK-37825-75RB#0



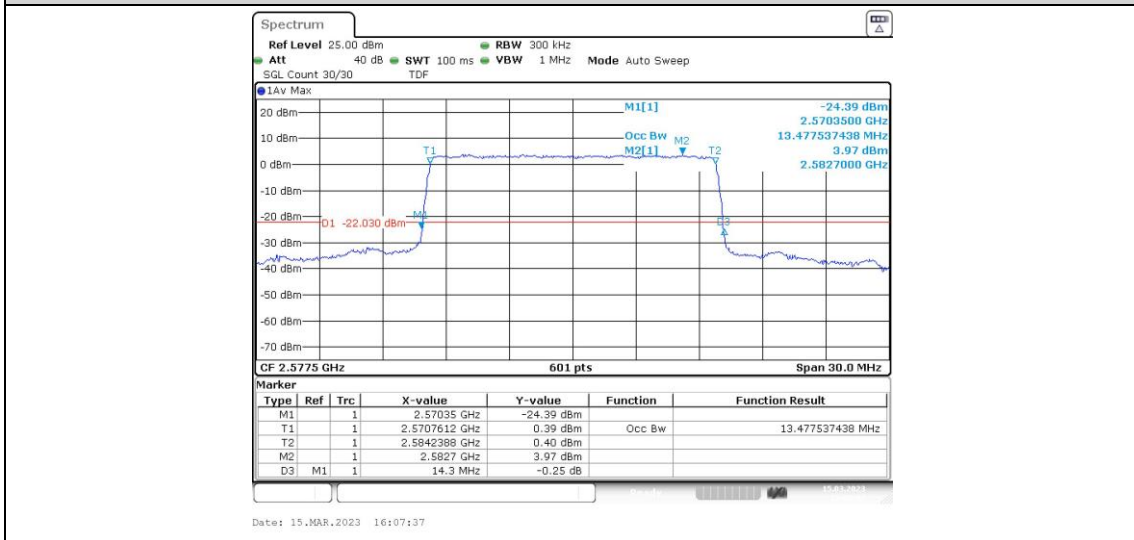
Band38-15MHz-QPSK-38000-75RB#0



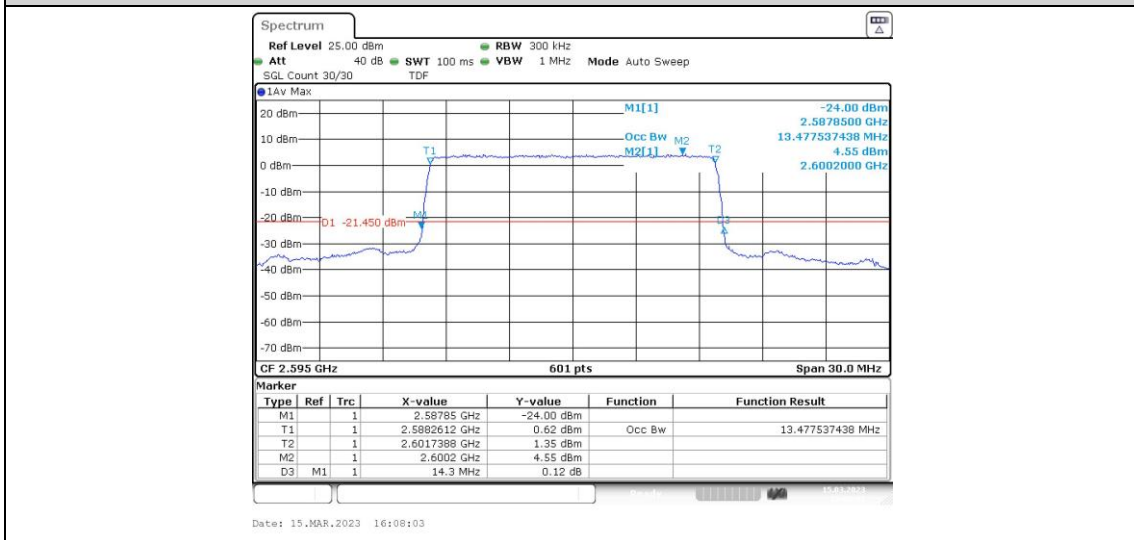
Band38-15MHz-QPSK-38175-75RB#0



Band38-15MHz-16QAM-37825-75RB#0

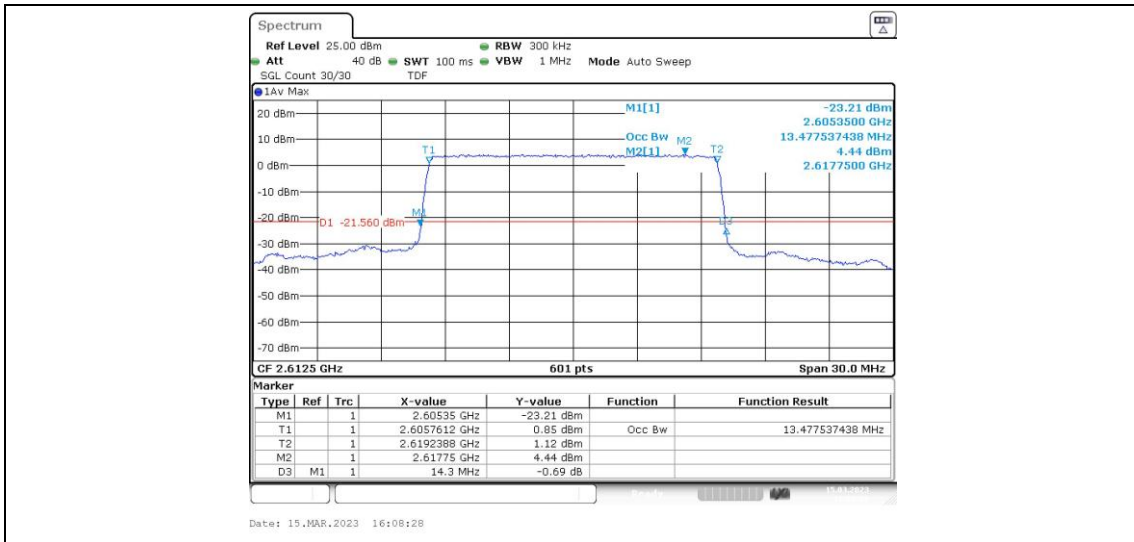


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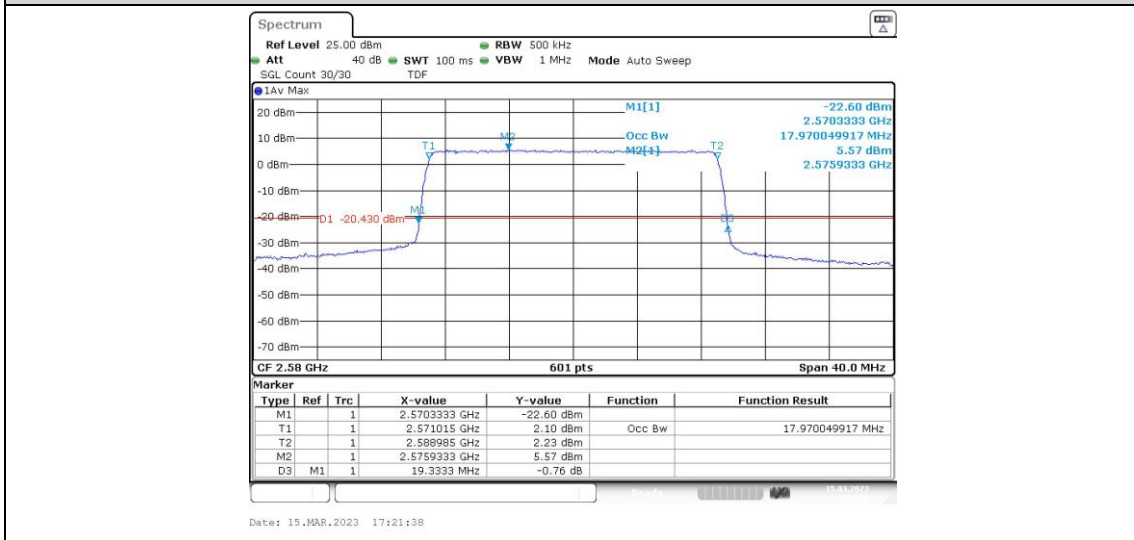


Band38-15MHz-16QAM-38175-75RB#0

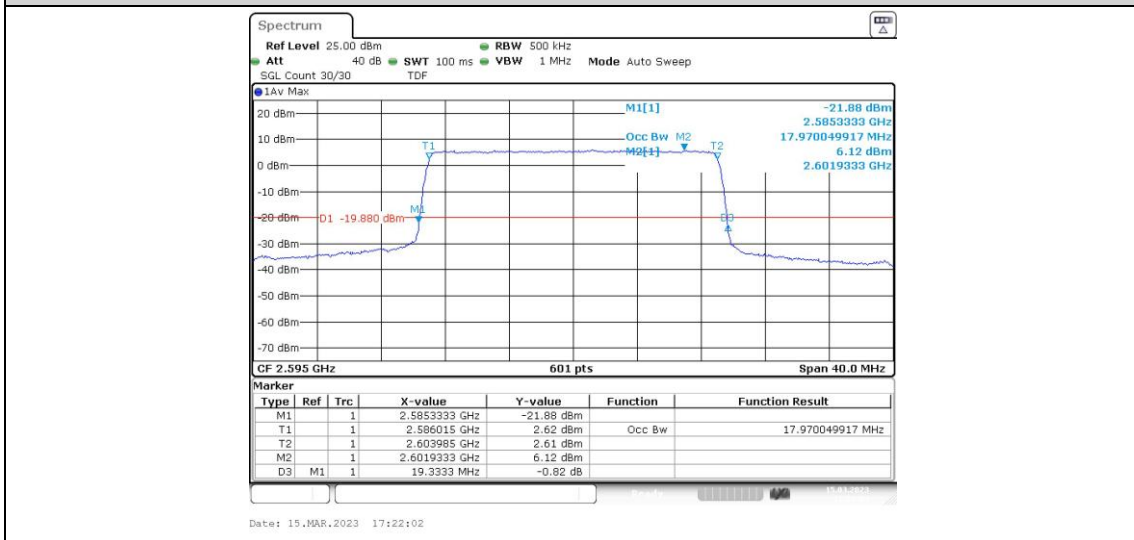




**Band38-20MHz-QPSK-37850-100RB#0**



**Band38-20MHz-QPSK-38000-100RB#0**



**Band38-20MHz-QPSK-38150-100RB#0**