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# Appendix B.14

## LTE Band 38

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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	25.86	25.63	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	25.78	25.55	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	25.36	25.13	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	25.23	25	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	25.36	25.13	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	25.63	25.4	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	25.85	25.62	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	25.29	25.06	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	25.52	25.29	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	25.8	25.57	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	25.98	25.75	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	25.27	25.04	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	25.25	25.02	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	25.36	25.13	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	25.3	25.07	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	24.31	24.08	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	25.43	25.2	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	25.35	25.12	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	25.38	25.15	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	24.31	24.08	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	25.27	25.04	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	25.31	25.08	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	25.31	25.08	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	24.29	24.06	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	24.6	24.37	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	24.5	24.27	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	24.56	24.33	33	PASS

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Band38	5MHz	64QAM	37775	25RB#0	23.27	23.04	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	24.68	24.45	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	24.58	24.35	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	24.54	24.31	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	23.33	23.1	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	24.56	24.33	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	24.63	24.4	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	24.67	24.44	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	23.28	23.05	33	PASS
Band38	5MHz	256QAM	37775	1RB#0	21.3	21.07	33	PASS
Band38	5MHz	256QAM	37775	1RB#12	21.39	21.16	33	PASS
Band38	5MHz	256QAM	37775	1RB#24	21.33	21.1	33	PASS
Band38	5MHz	256QAM	37775	25RB#0	21.28	21.05	33	PASS
Band38	5MHz	256QAM	38000	1RB#0	21.39	21.16	33	PASS
Band38	5MHz	256QAM	38000	1RB#12	21.37	21.14	33	PASS
Band38	5MHz	256QAM	38000	1RB#24	21.38	21.15	33	PASS
Band38	5MHz	256QAM	38000	25RB#0	21.3	21.07	33	PASS
Band38	5MHz	256QAM	38225	1RB#0	21.35	21.12	33	PASS
Band38	5MHz	256QAM	38225	1RB#12	21.4	21.17	33	PASS
Band38	5MHz	256QAM	38225	1RB#24	21.48	21.25	33	PASS
Band38	5MHz	256QAM	38225	25RB#0	21.24	21.01	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	25.63	25.4	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	25.89	25.66	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	25.56	25.33	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	25.34	25.11	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	25.33	25.1	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	25.36	25.13	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	25.52	25.29	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	25.35	25.12	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	25.51	25.28	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	25.52	25.29	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	25.63	25.4	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	25.22	24.99	33	PASS

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Band38	10MHz	16QAM	37800	1RB#0	25.23	25	33	PASS
Band38	10MHz	16QAM	37800	1RB#24	25.4	25.17	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	25.37	25.14	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	24.32	24.09	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	25.4	25.17	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	25.39	25.16	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	25.3	25.07	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	24.32	24.09	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	25.24	25.01	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	25.32	25.09	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	25.34	25.11	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	24.23	24	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	24.57	24.34	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	24.68	24.45	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	24.56	24.33	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	23.32	23.09	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	24.59	24.36	33	PASS
Band38	10MHz	64QAM	38000	1RB#24	24.55	24.32	33	PASS
Band38	10MHz	64QAM	38000	1RB#49	24.49	24.26	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	23.33	23.1	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	24.52	24.29	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	24.61	24.38	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	24.65	24.42	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	23.21	22.98	33	PASS
Band38	10MHz	256QAM	37800	1RB#0	21.27	21.04	33	PASS
Band38	10MHz	256QAM	37800	1RB#24	21.39	21.16	33	PASS
Band38	10MHz	256QAM	37800	1RB#49	21.29	21.06	33	PASS
Band38	10MHz	256QAM	37800	50RB#0	21.3	21.07	33	PASS
Band38	10MHz	256QAM	38000	1RB#0	21.37	21.14	33	PASS
Band38	10MHz	256QAM	38000	1RB#24	21.43	21.2	33	PASS
Band38	10MHz	256QAM	38000	1RB#49	21.28	21.05	33	PASS
Band38	10MHz	256QAM	38000	50RB#0	21.34	21.11	33	PASS
Band38	10MHz	256QAM	38200	1RB#0	21.37	21.14	33	PASS

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Band38	10MHz	256QAM	38200	1RB#49	21.35	21.12	33	PASS
Band38	10MHz	256QAM	38200	50RB#0	21.19	20.96	33	PASS
Band38	15MHz	QPSK	37825	1RB#0	25.63	25.4	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	25.58	25.35	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	25.56	25.33	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	25.17	24.94	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	25.63	25.4	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	25.85	25.62	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	25.99	25.76	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	25.21	24.98	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	25.52	25.29	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	25.89	25.66	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	25.85	25.62	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	25.13	24.9	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	25.24	25.01	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	25.32	25.09	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	25.31	25.08	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	24.22	23.99	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	25.24	25.01	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	25.52	25.29	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	25.22	24.99	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	24.21	23.98	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	25.23	25	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	25.18	24.95	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	25.2	24.97	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	24.16	23.93	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	24.41	24.18	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	24.58	24.35	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	24.42	24.19	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	23.25	23.02	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	24.36	24.13	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	24.47	24.24	33	PASS

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Band38	15MHz	64QAM	38000	75RB#0	23.23	23	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	24.41	24.18	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	24.45	24.22	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	24.4	24.17	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	23.19	22.96	33	PASS
Band38	15MHz	256QAM	37825	1RB#0	21.13	20.9	33	PASS
Band38	15MHz	256QAM	37825	1RB#38	21.34	21.11	33	PASS
Band38	15MHz	256QAM	37825	1RB#74	21.28	21.05	33	PASS
Band38	15MHz	256QAM	37825	75RB#0	21.19	20.96	33	PASS
Band38	15MHz	256QAM	38000	1RB#0	21.22	20.99	33	PASS
Band38	15MHz	256QAM	38000	1RB#38	21.35	21.12	33	PASS
Band38	15MHz	256QAM	38000	1RB#74	21.27	21.04	33	PASS
Band38	15MHz	256QAM	38000	75RB#0	21.24	21.01	33	PASS
Band38	15MHz	256QAM	38175	1RB#0	21.08	20.85	33	PASS
Band38	15MHz	256QAM	38175	1RB#38	21.32	21.09	33	PASS
Band38	15MHz	256QAM	38175	1RB#74	21.21	20.98	33	PASS
Band38	15MHz	256QAM	38175	75RB#0	21.13	20.9	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	2466	2465.77	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	25.78	25.55	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	25.85	25.62	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	25.22	24.99	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	25.56	25.33	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	25.63	25.4	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	25.78	25.55	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	25.23	25	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	25.69	25.46	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	25.65	25.42	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	25.85	25.62	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	25.17	24.94	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	25.26	25.03	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	25.38	25.15	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	25.32	25.09	33	PASS

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Band38	20MHz	16QAM	37850	100RB#0	24.24	24.01	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	25.18	24.95	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	25.34	25.11	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	25.22	24.99	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	24.23	24	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	25.11	24.88	33	PASS
Band38	20MHz	16QAM	38150	1RB#49	25.18	24.95	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	25.14	24.91	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	24.18	23.95	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	24.45	24.22	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	24.62	24.39	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	24.56	24.33	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	23.22	22.99	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	24.51	24.28	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	24.48	24.25	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	24.41	24.18	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	23.23	23	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	24.41	24.18	33	PASS
Band38	20MHz	64QAM	38150	1RB#49	24.54	24.31	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	24.32	24.09	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	23.19	22.96	33	PASS
Band38	20MHz	256QAM	37850	1RB#0	21.21	20.98	33	PASS
Band38	20MHz	256QAM	37850	1RB#49	21.34	21.11	33	PASS
Band38	20MHz	256QAM	37850	1RB#99	21.42	21.19	33	PASS
Band38	20MHz	256QAM	37850	100RB#0	21.23	21	33	PASS
Band38	20MHz	256QAM	38000	1RB#0	21.31	21.08	33	PASS
Band38	20MHz	256QAM	38000	1RB#49	21.36	21.13	33	PASS
Band38	20MHz	256QAM	38000	1RB#99	21.29	21.06	33	PASS
Band38	20MHz	256QAM	38000	100RB#0	21.22	20.99	33	PASS
Band38	20MHz	256QAM	38150	1RB#0	21.23	21	33	PASS
Band38	20MHz	256QAM	38150	1RB#49	21.33	21.1	33	PASS
Band38	20MHz	256QAM	38150	1RB#99	21.19	20.96	33	PASS
Band38	20MHz	256QAM	38150	100RB#0	21.19	20.96	33	PASS

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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	8.56	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.88	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.64	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.36	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.60	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.44	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	9.58	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	10.02	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	9.84	13	PASS
Band38	20MHz	256QAM	37850	100RB#0	10.20	13	PASS
Band38	20MHz	256QAM	38000	100RB#0	10.04	13	PASS
Band38	20MHz	256QAM	38150	100RB#0	9.86	13	PASS

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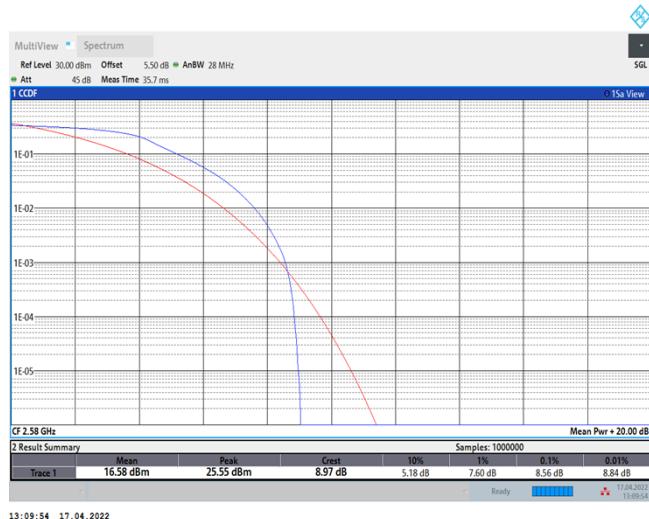
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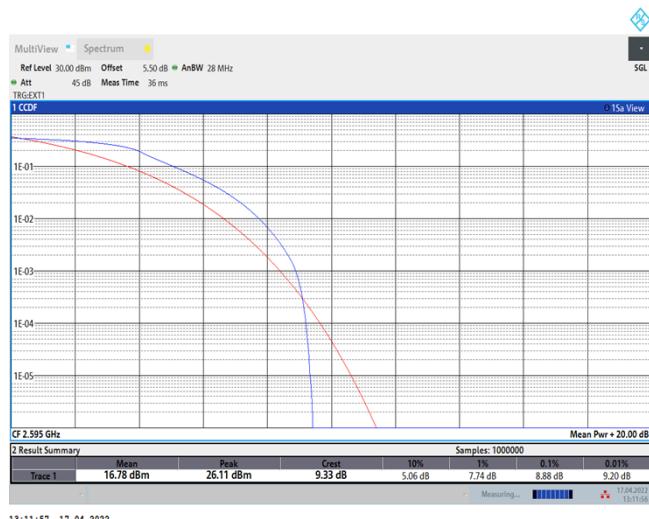
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## Test Graphs

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



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



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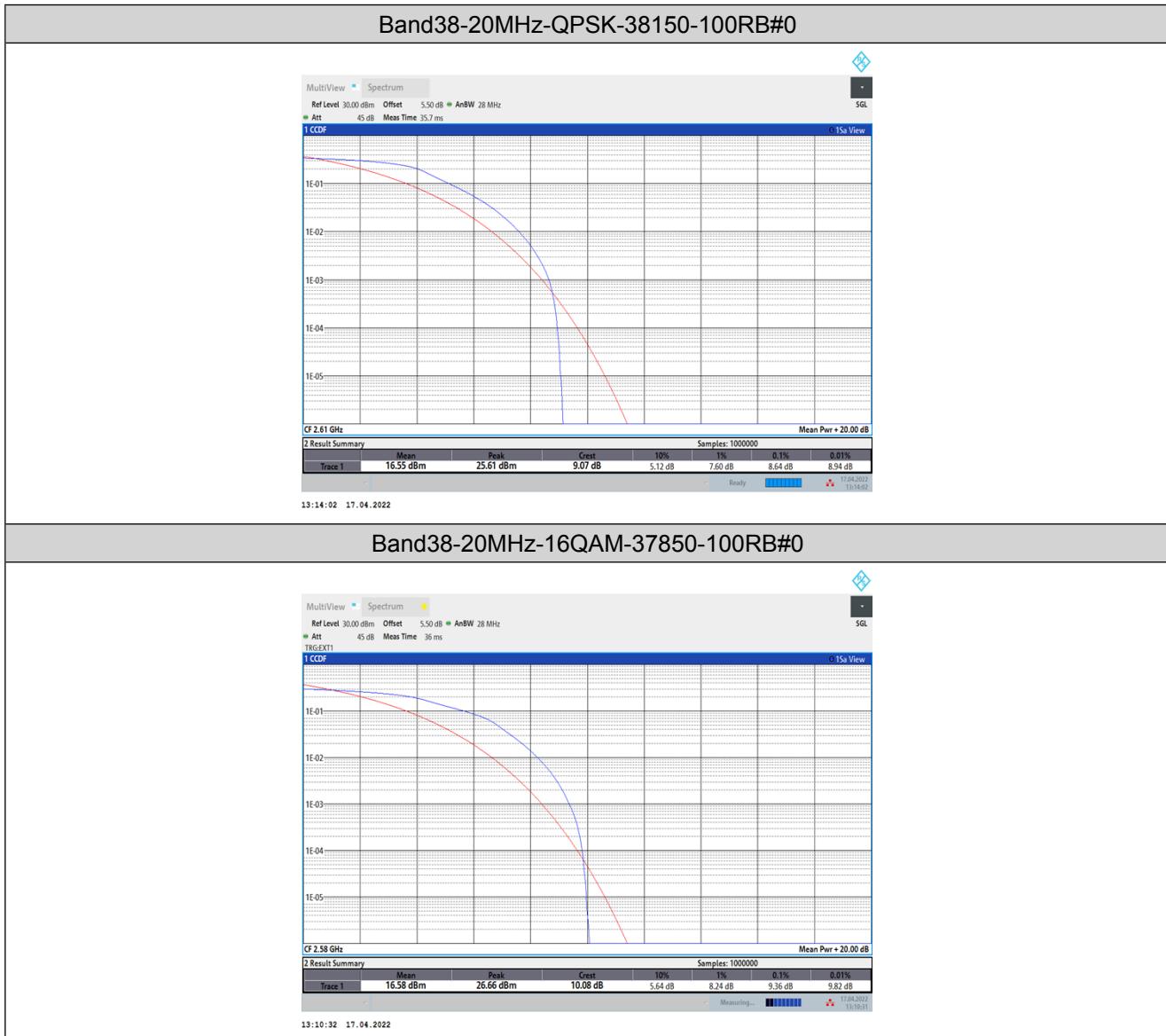
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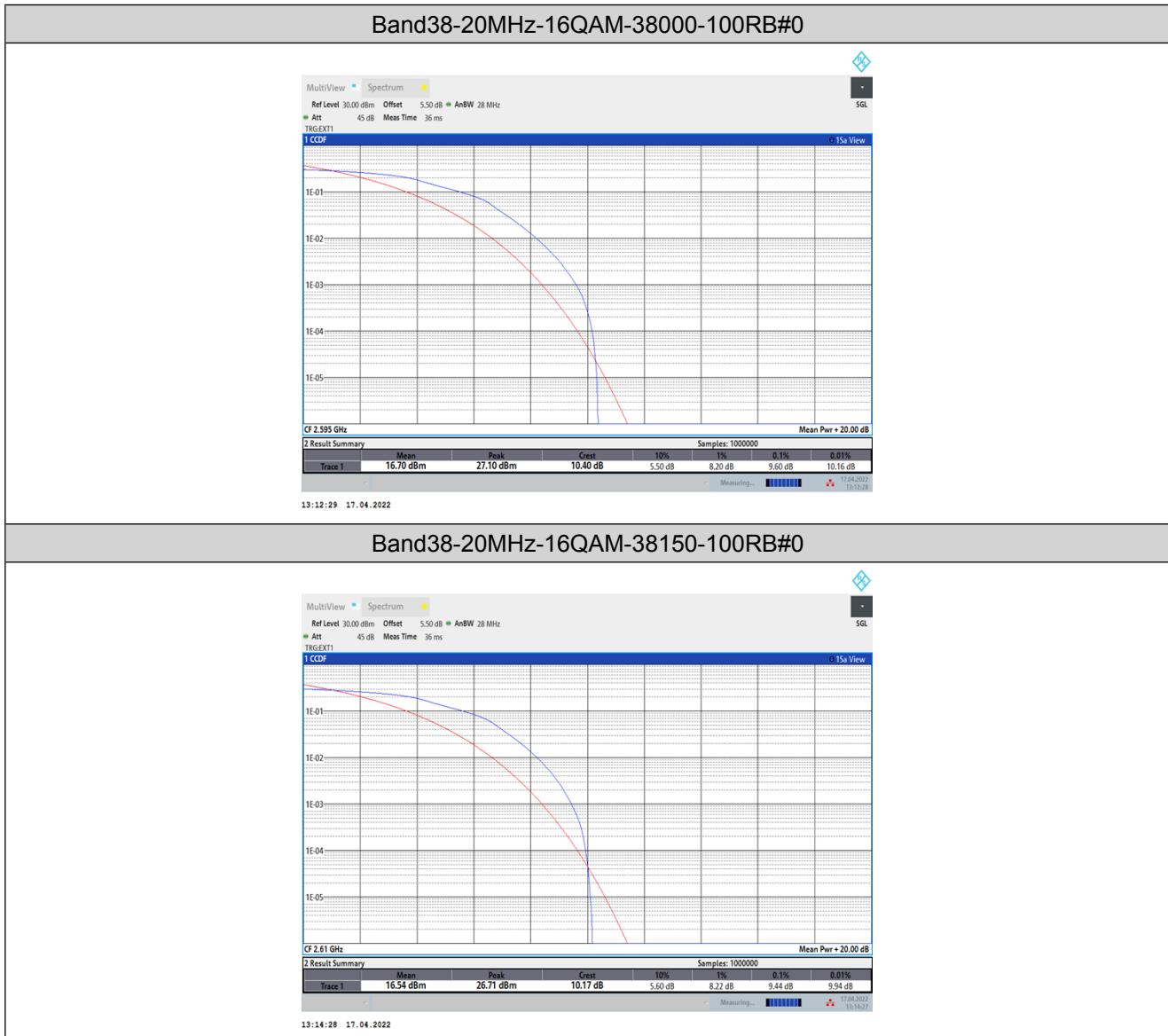
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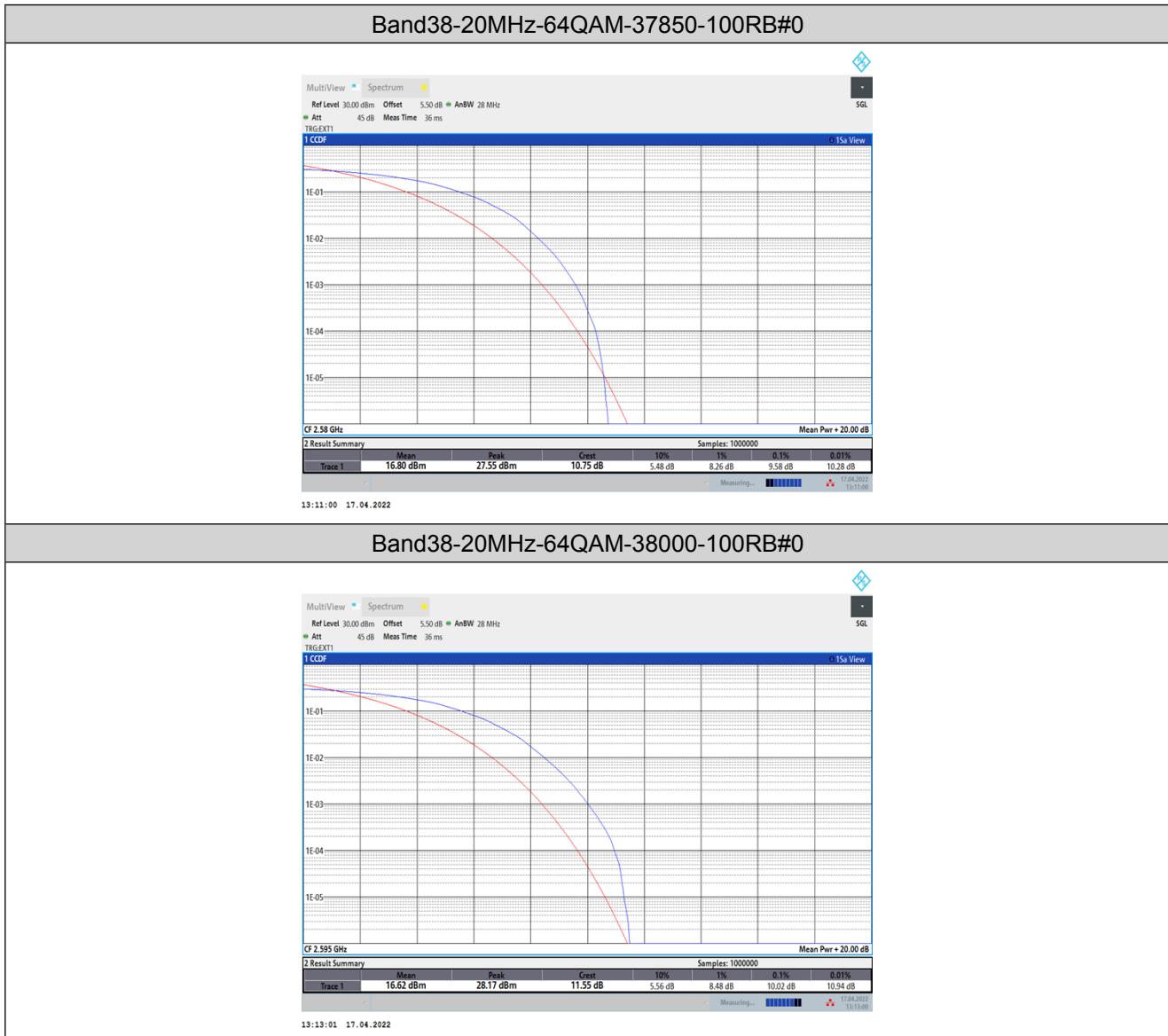
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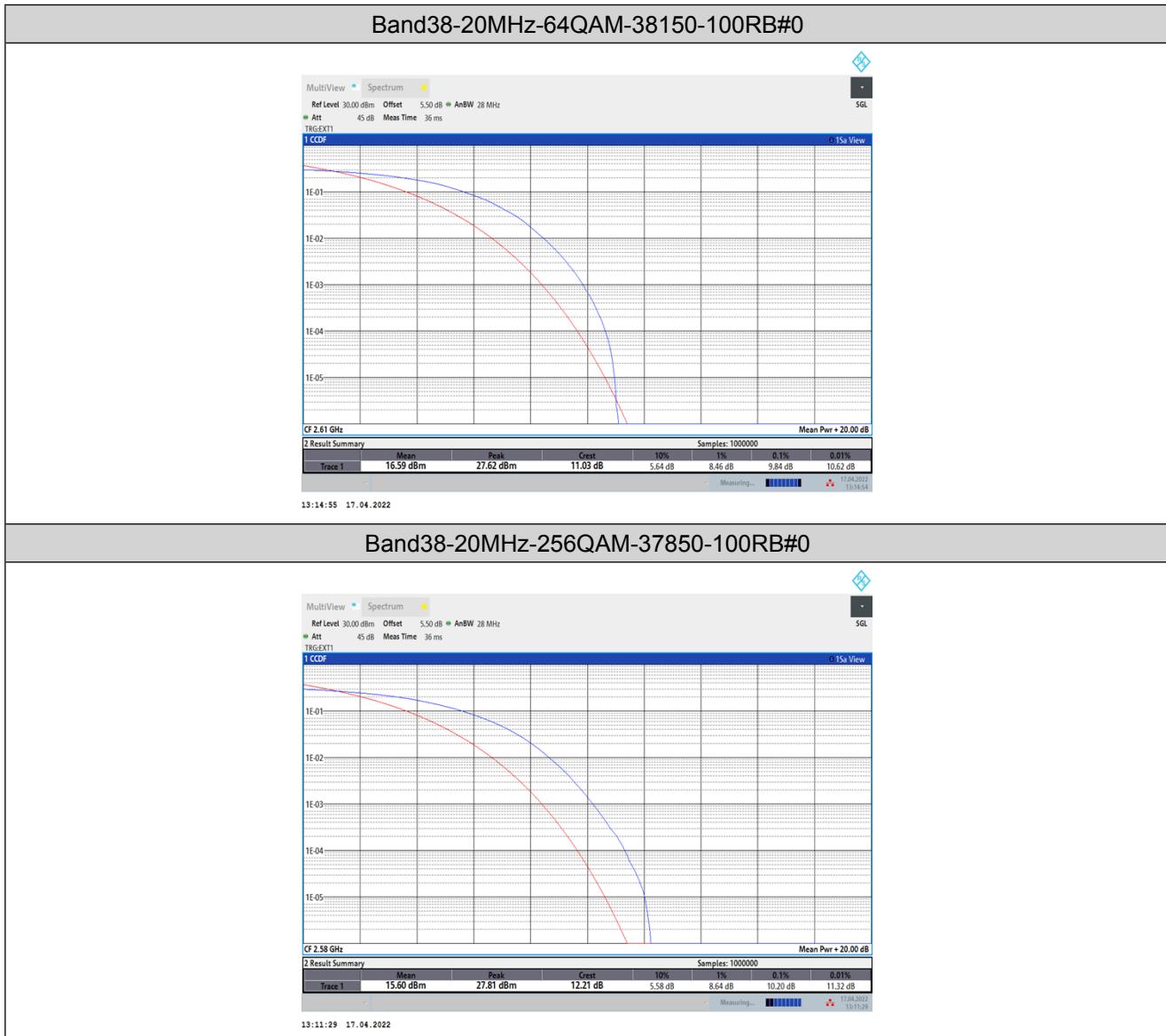
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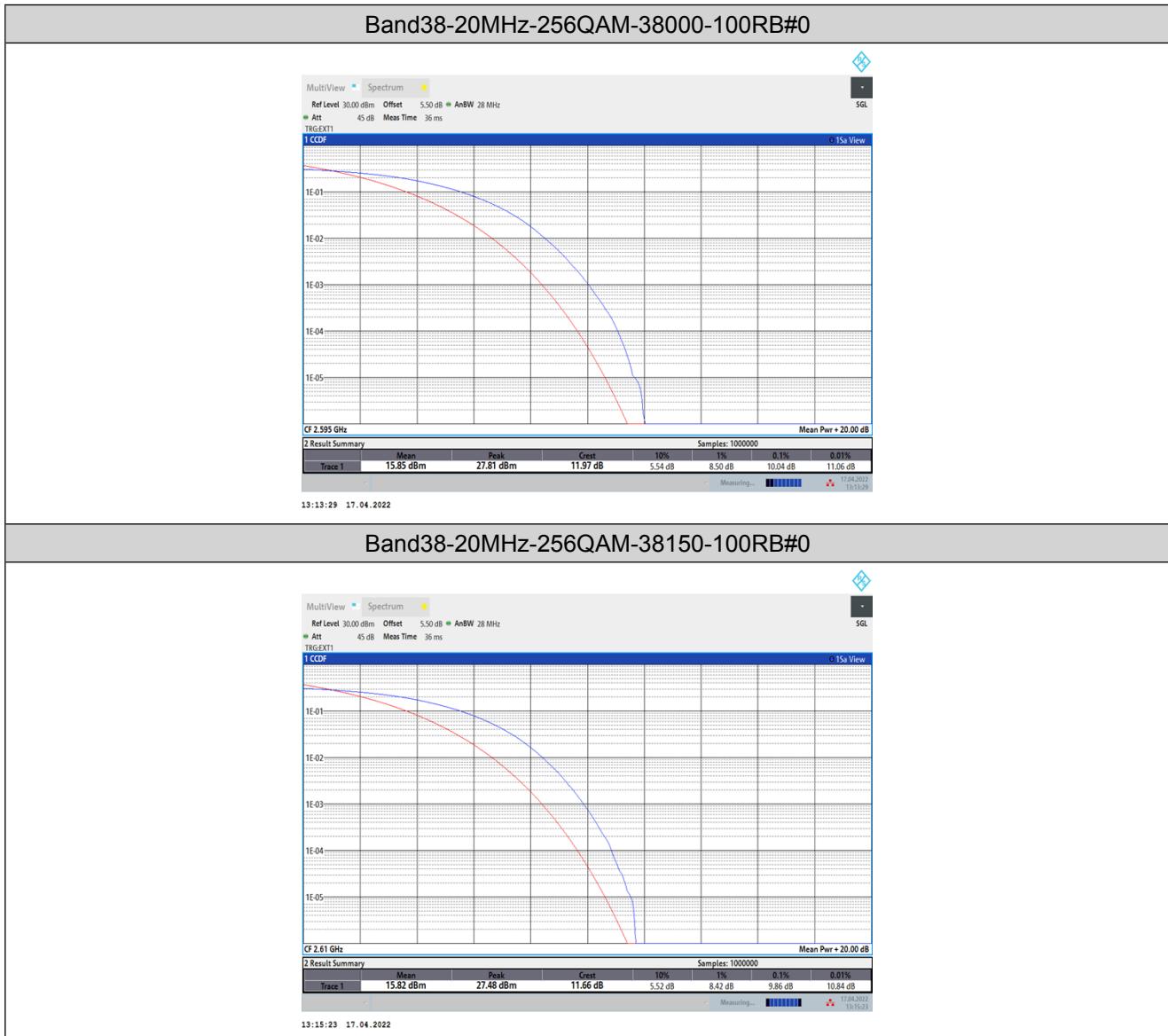
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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band38	20MHz	QPSK	38000	100RB#0	PASS	PASS
Band38	20MHz	16QAM	38000	100RB#0	PASS	PASS
Band38	20MHz	64QAM	38000	100RB#0	PASS	PASS
Band38	20MHz	256QAM	38000	100RB#0	PASS	PASS

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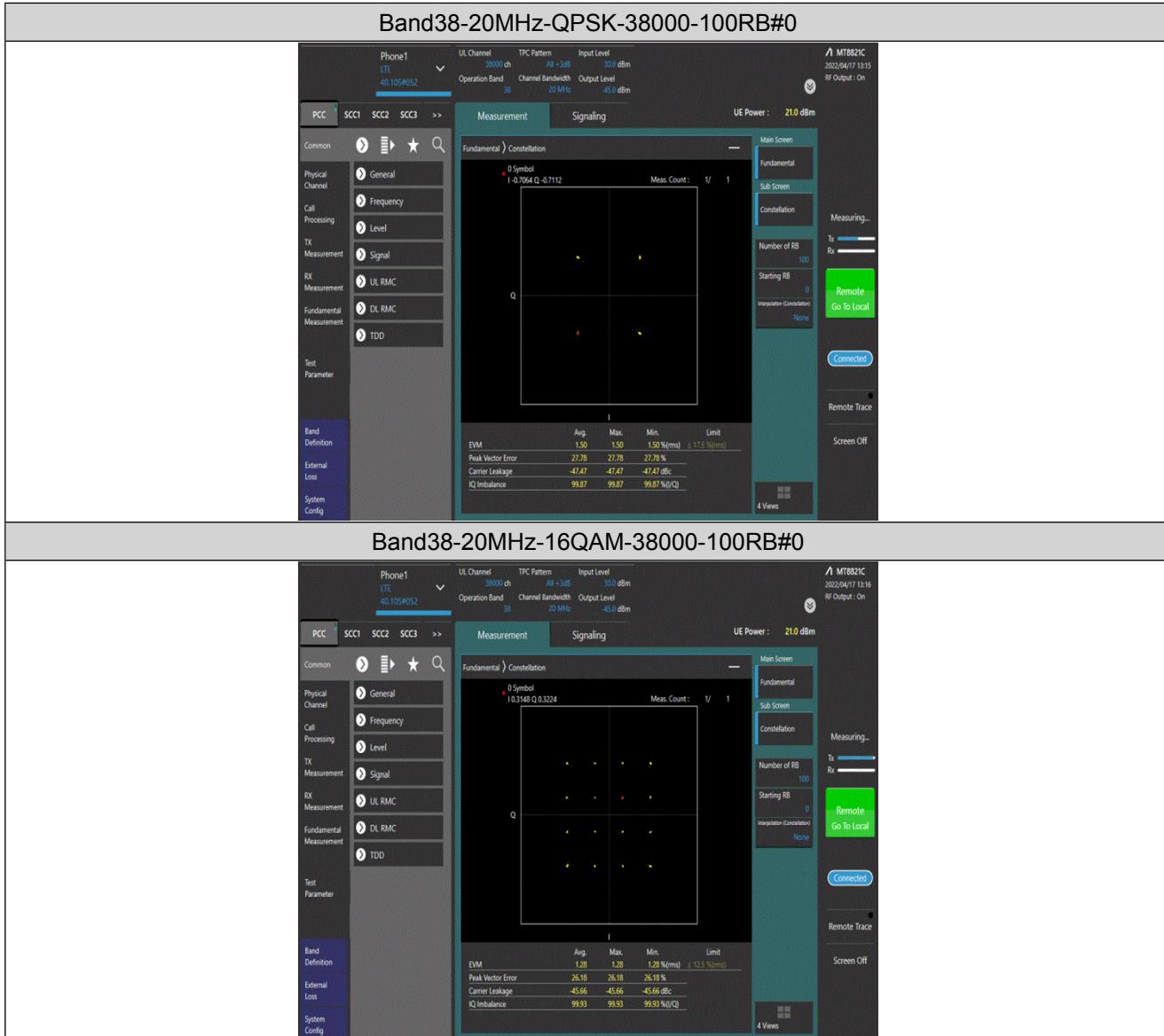


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## Test Graphs



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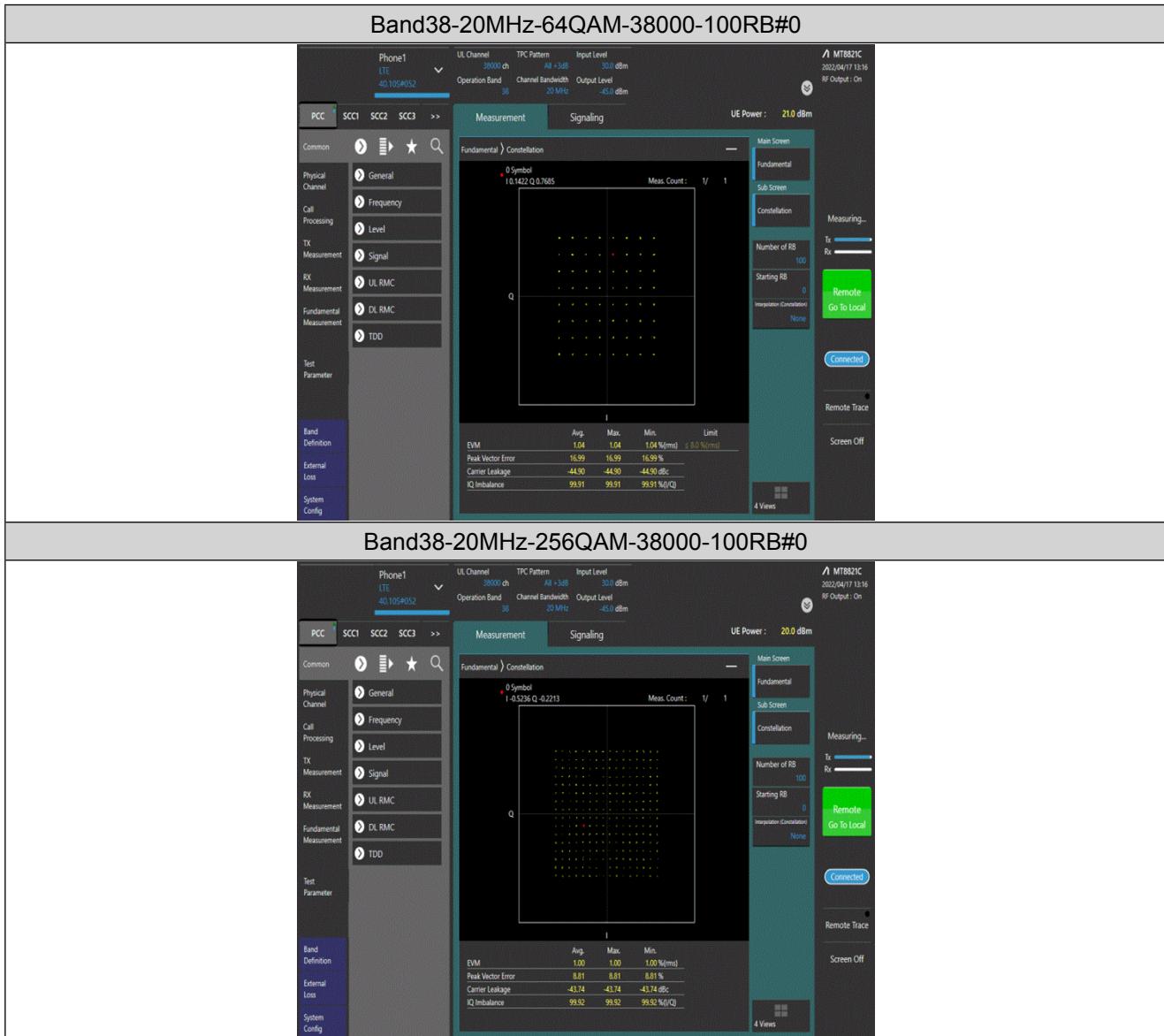
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.472	5.07	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.478	5.01	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.478	5.11	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.480	5.09	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.479	5.21	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.480	5.10	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.483	4.99	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.476	5.16	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.480	5.16	PASS
Band38	5MHz	256QAM	37775	25RB#0	4.482	5.13	PASS
Band38	5MHz	256QAM	38000	25RB#0	4.481	5.03	PASS
Band38	5MHz	256QAM	38225	25RB#0	4.471	5.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.938	10.12	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.931	9.88	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.955	9.86	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.947	10.12	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.936	9.98	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.943	10.22	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.932	10.16	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.942	10.16	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.940	10.24	PASS
Band38	10MHz	256QAM	37800	50RB#0	8.948	10.08	PASS
Band38	10MHz	256QAM	38000	50RB#0	8.961	9.96	PASS
Band38	10MHz	256QAM	38200	50RB#0	8.931	9.96	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.479	16.68	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.489	16.44	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.494	16.35	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.480	15.36	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.474	15.93	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.498	16.44	PASS

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Band38	15MHz	64QAM	37825	75RB#0	13.488	14.97	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.491	16.20	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.517	16.38	PASS
Band38	15MHz	256QAM	37825	75RB#0	13.475	15.81	PASS
Band38	15MHz	256QAM	38000	75RB#0	13.486	16.20	PASS
Band38	15MHz	256QAM	38175	75RB#0	13.485	15.93	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.887	20.32	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.938	20.24	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.946	20.92	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.913	20.28	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.927	20.08	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.917	20.16	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.911	20.92	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.896	21.20	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.927	20.44	PASS
Band38	20MHz	256QAM	37850	100RB#0	17.908	21.00	PASS
Band38	20MHz	256QAM	38000	100RB#0	17.919	20.96	PASS
Band38	20MHz	256QAM	38150	100RB#0	17.921	20.36	PASS

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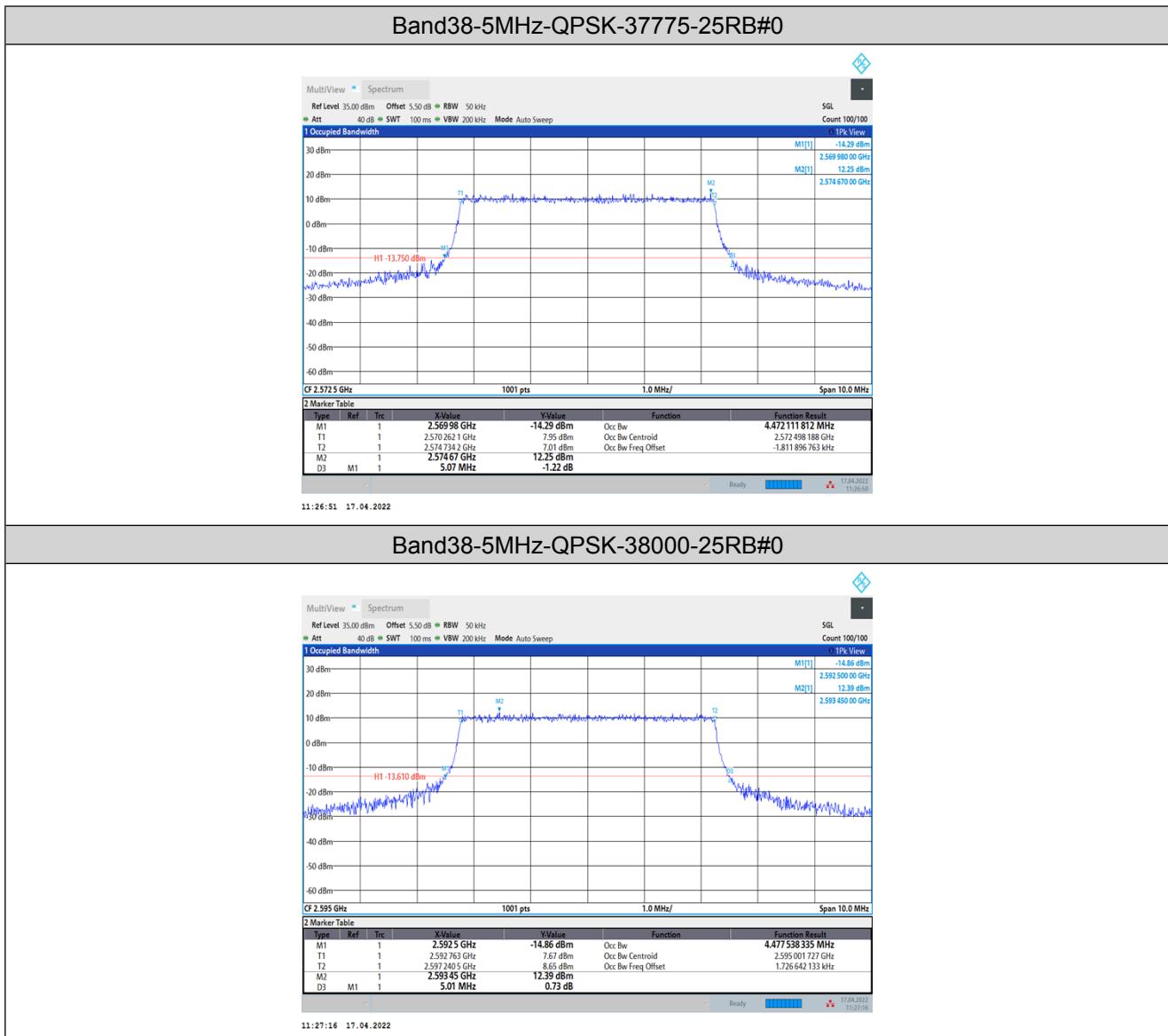
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## Test Graphs



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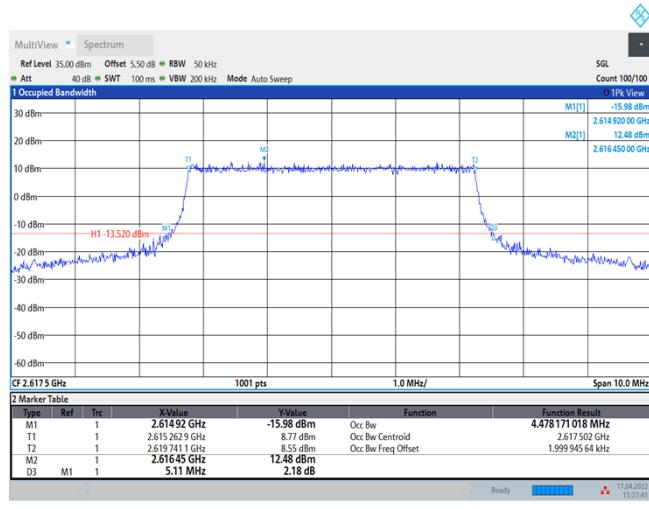


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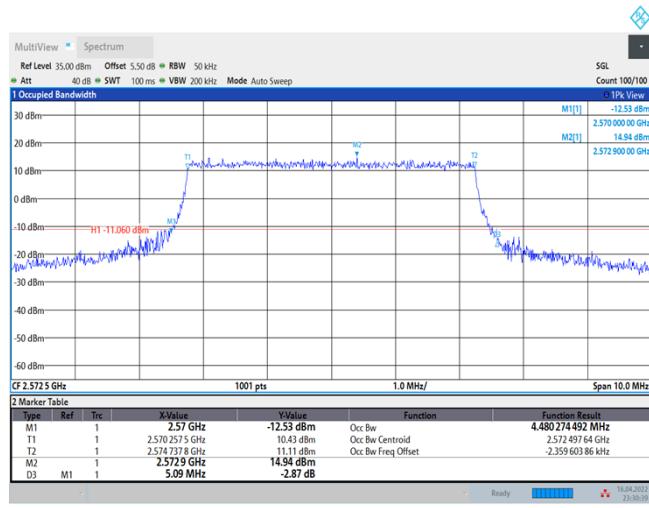
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### Band38-5MHz-QPSK-38225-25RB#0



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



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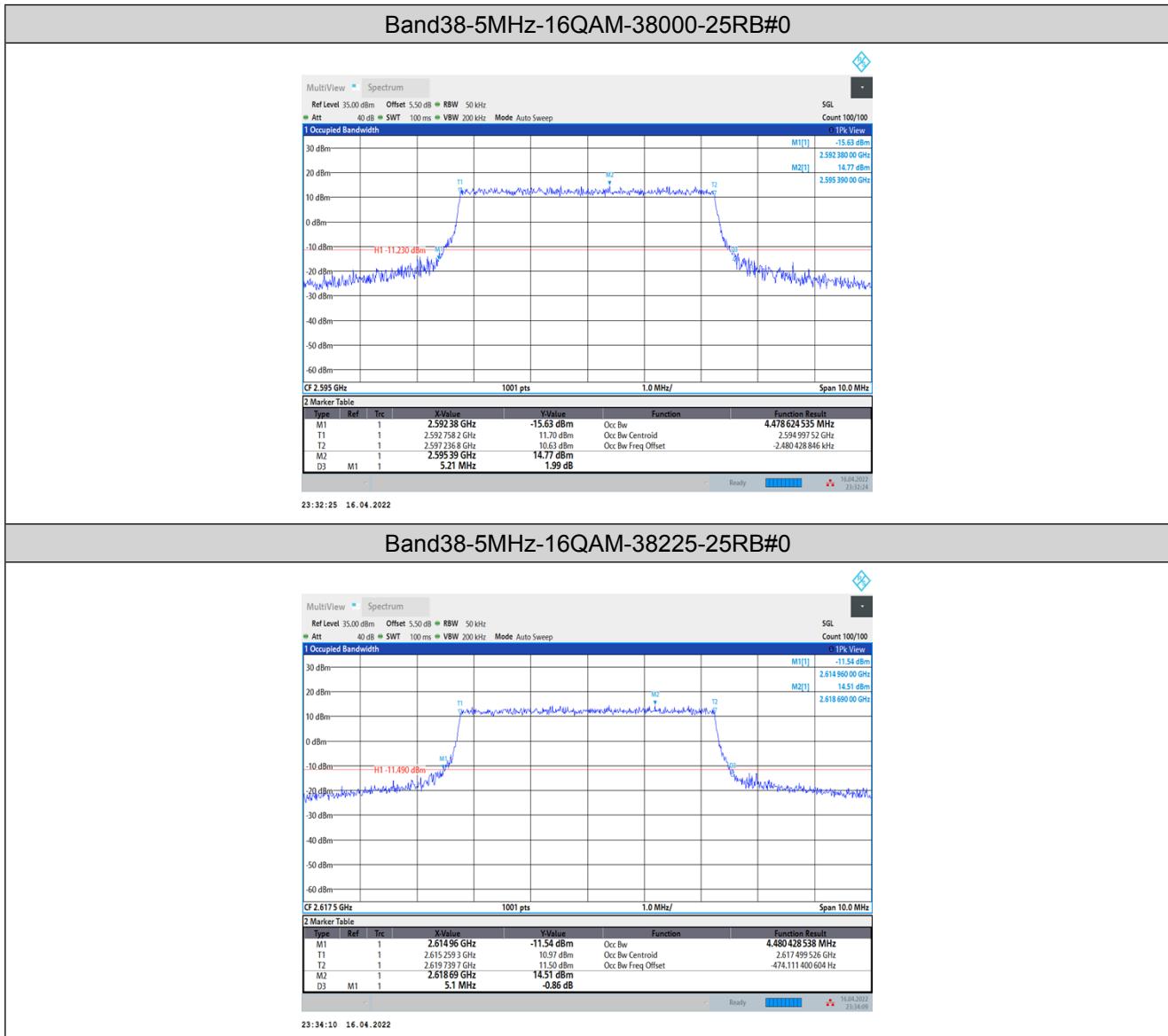


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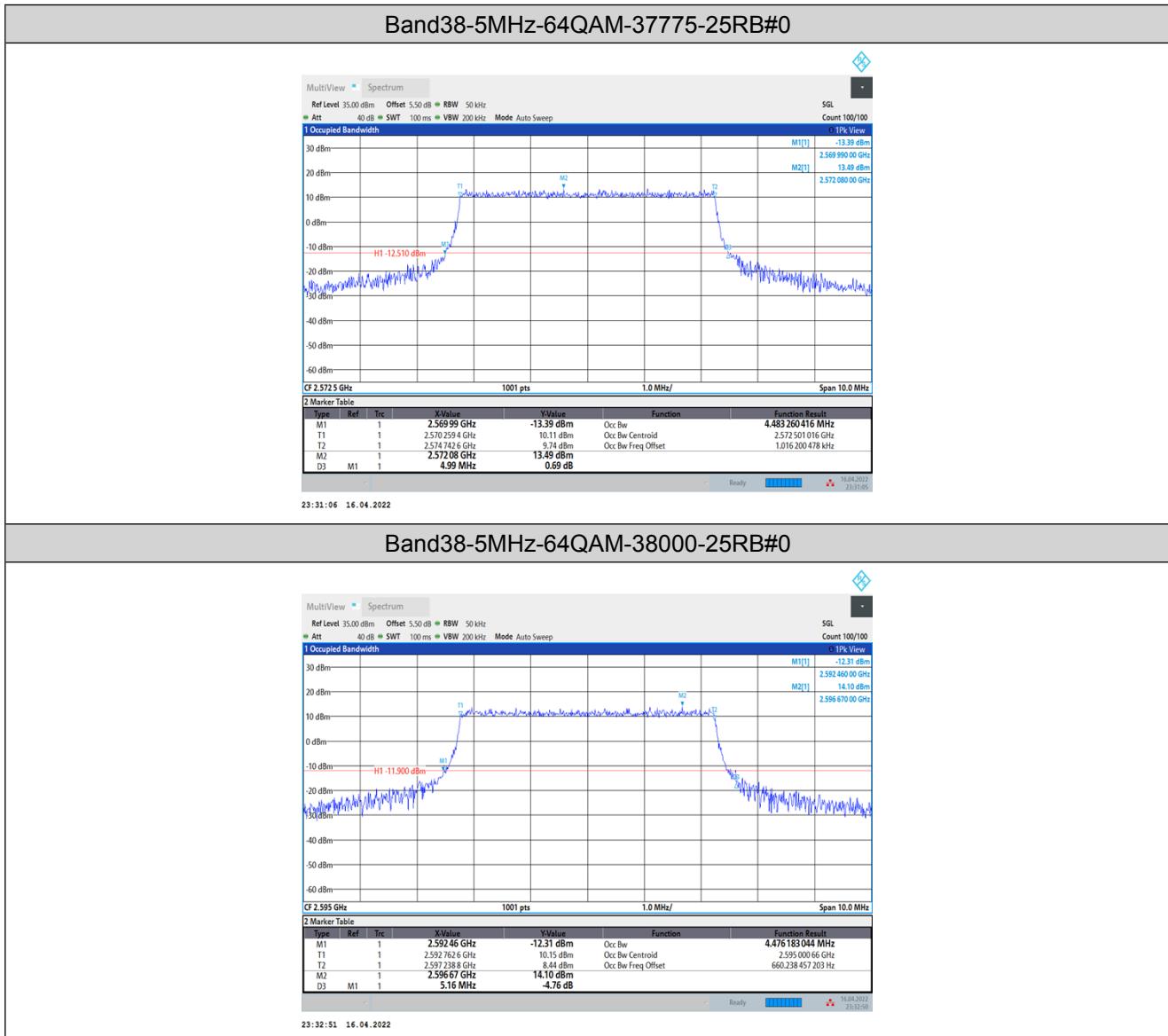


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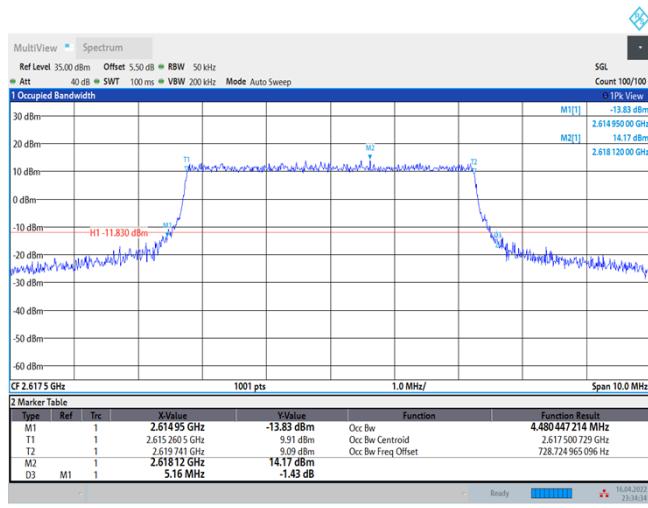


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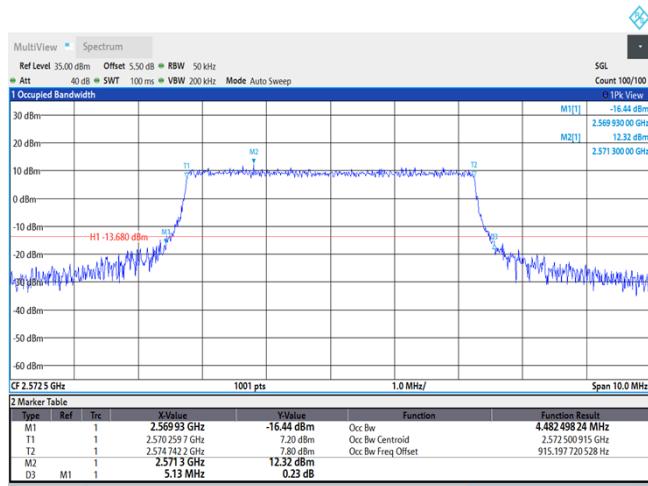
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Band38-5MHz-64QAM-38225-25RB#0



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Band38-5MHz-256QAM-37775-25RB#0



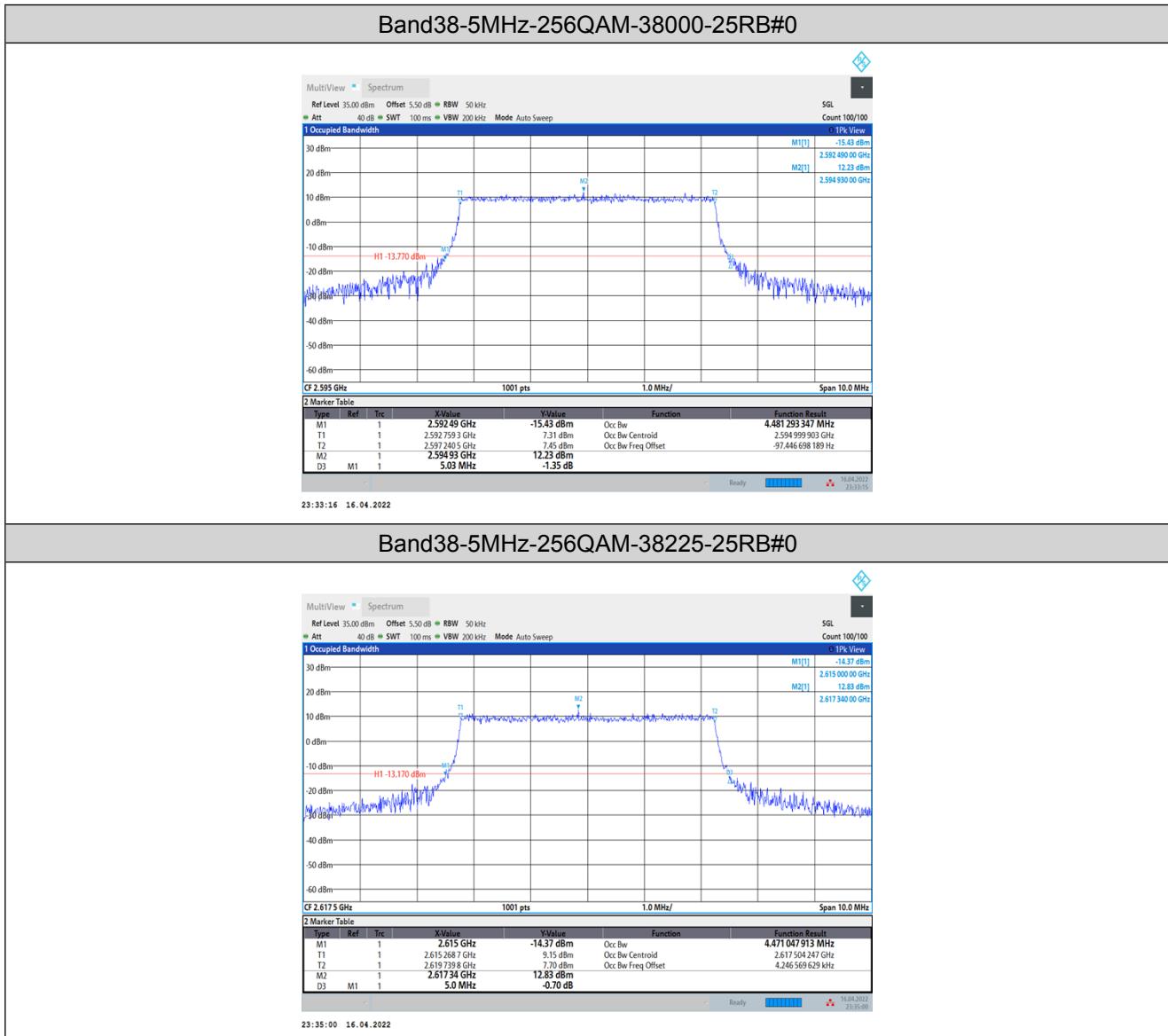
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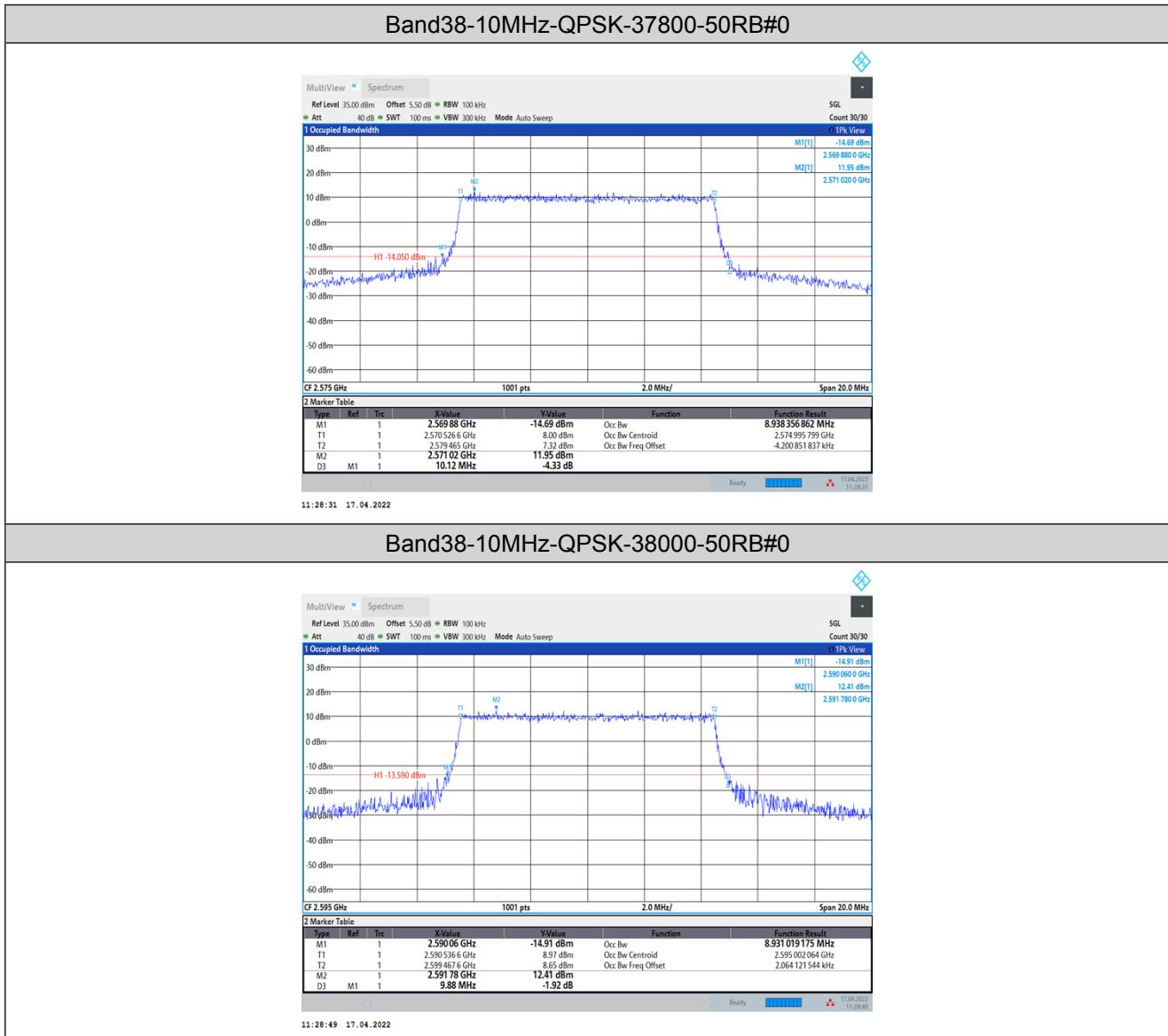
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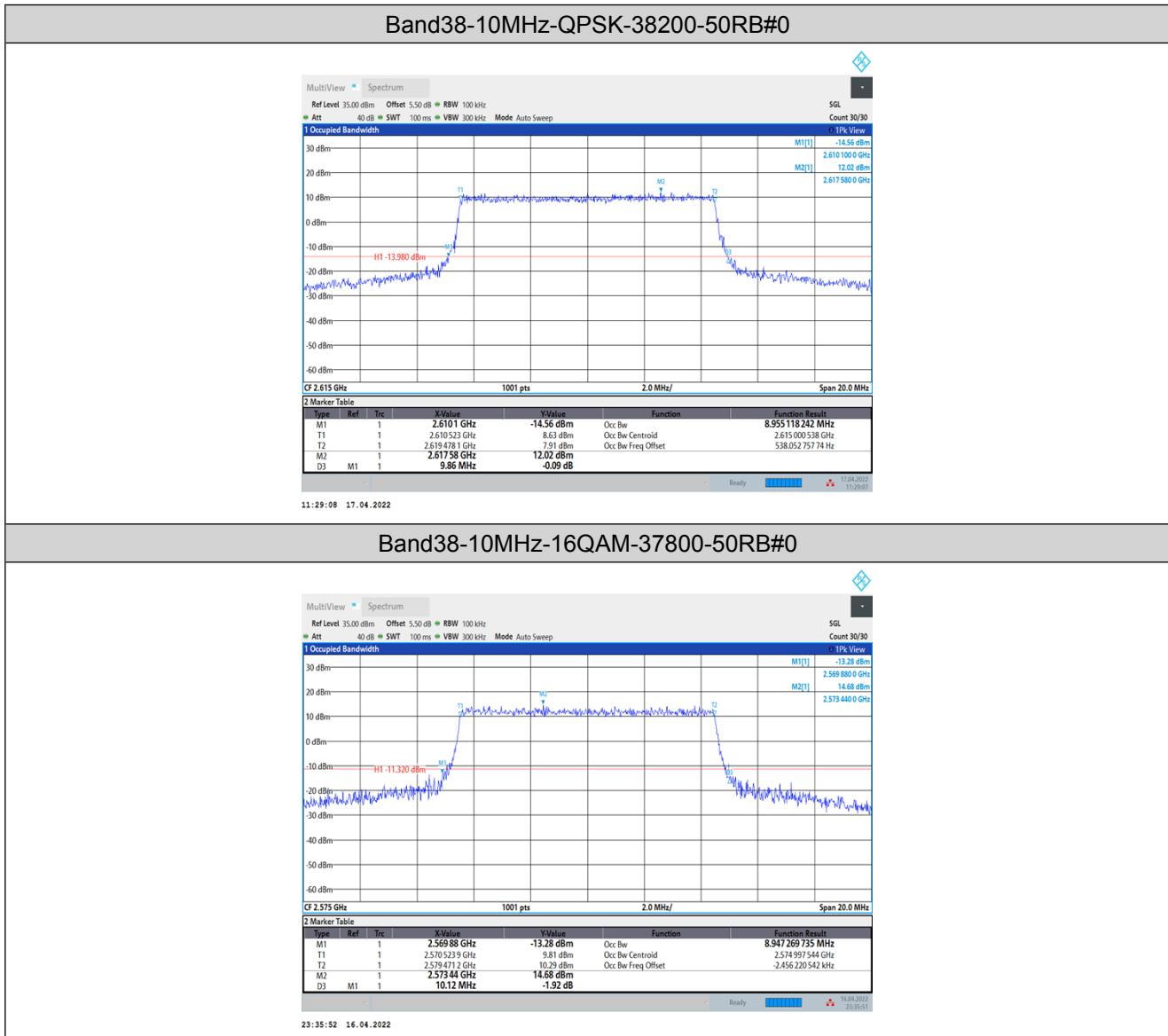
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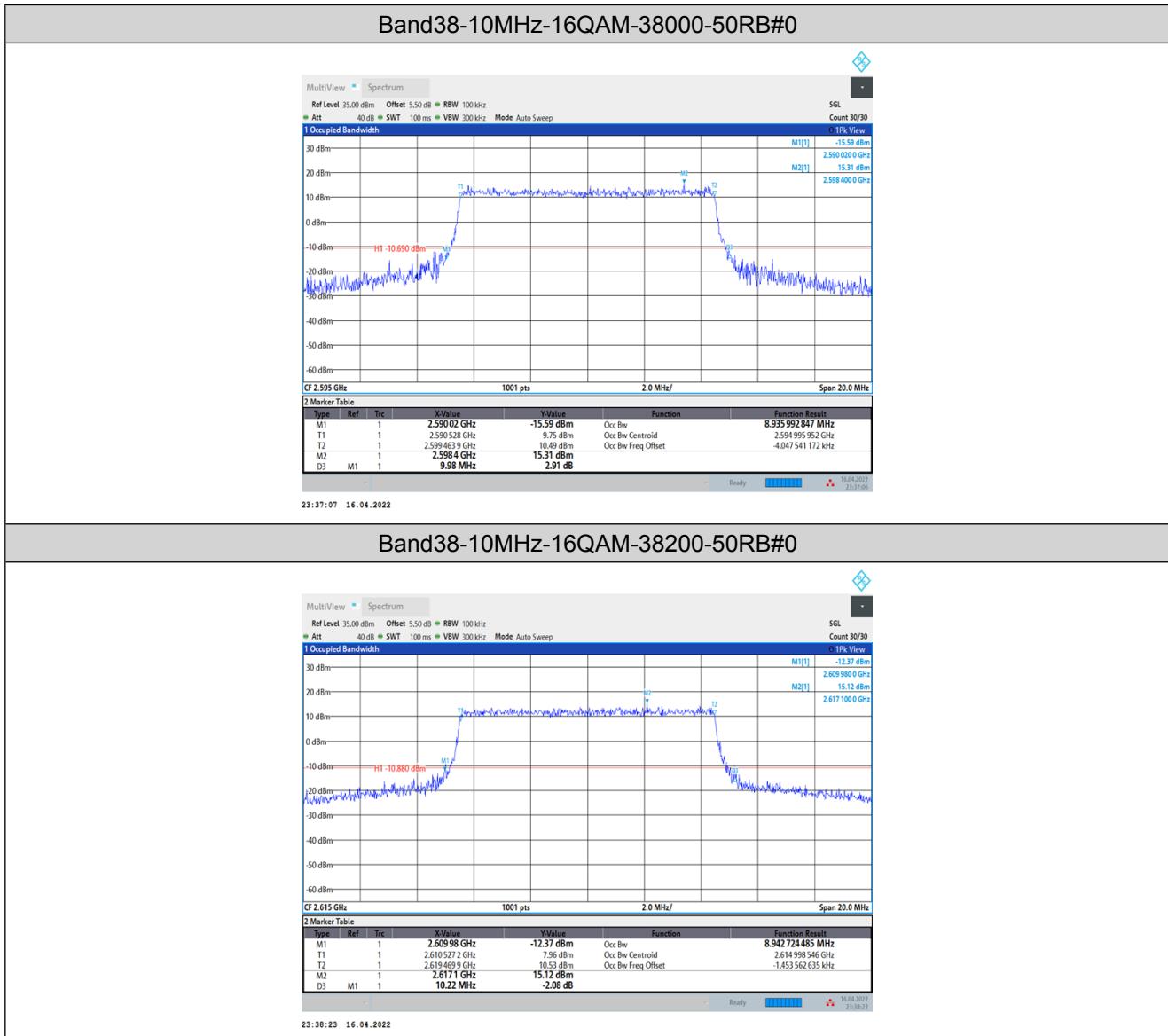
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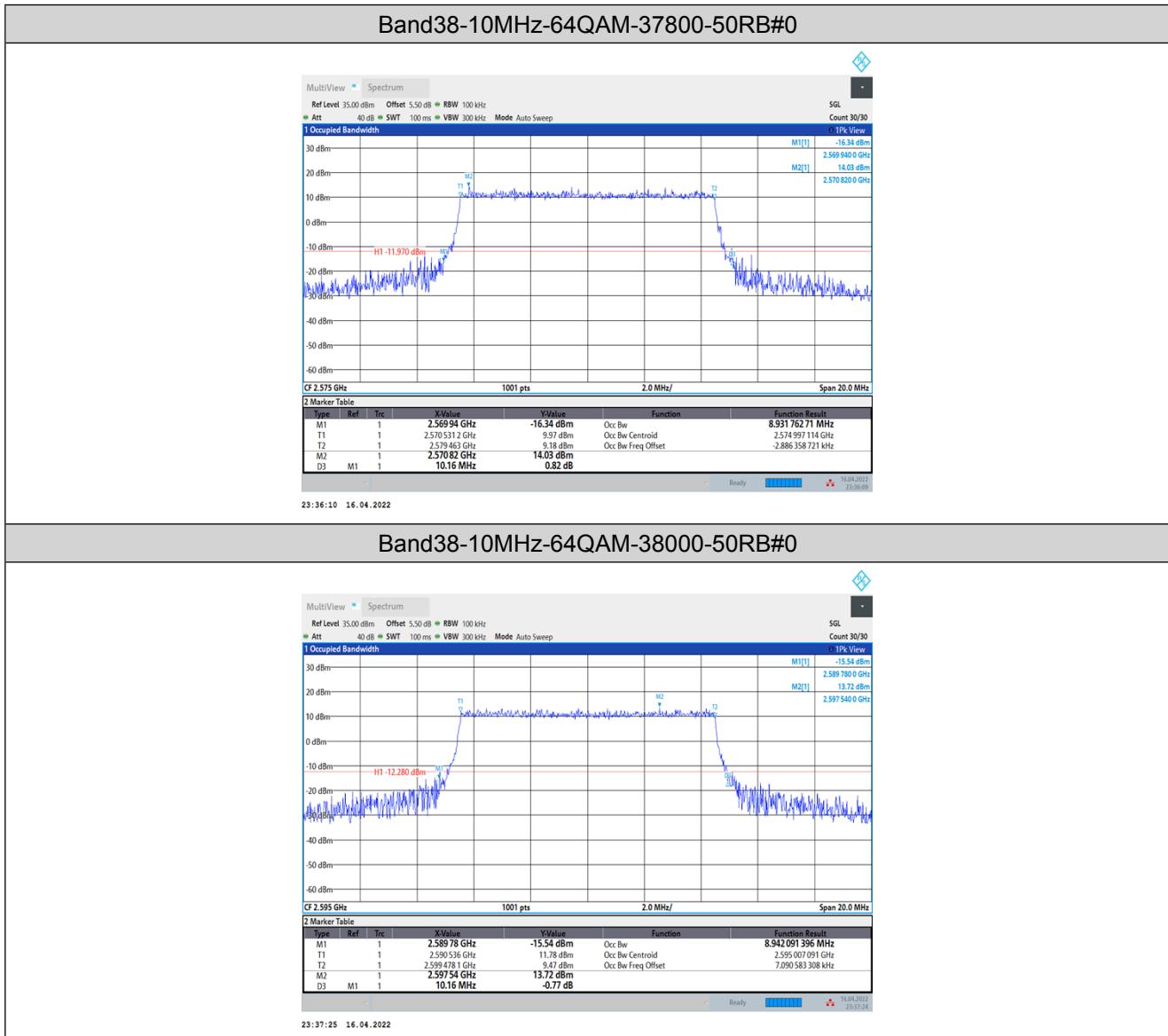
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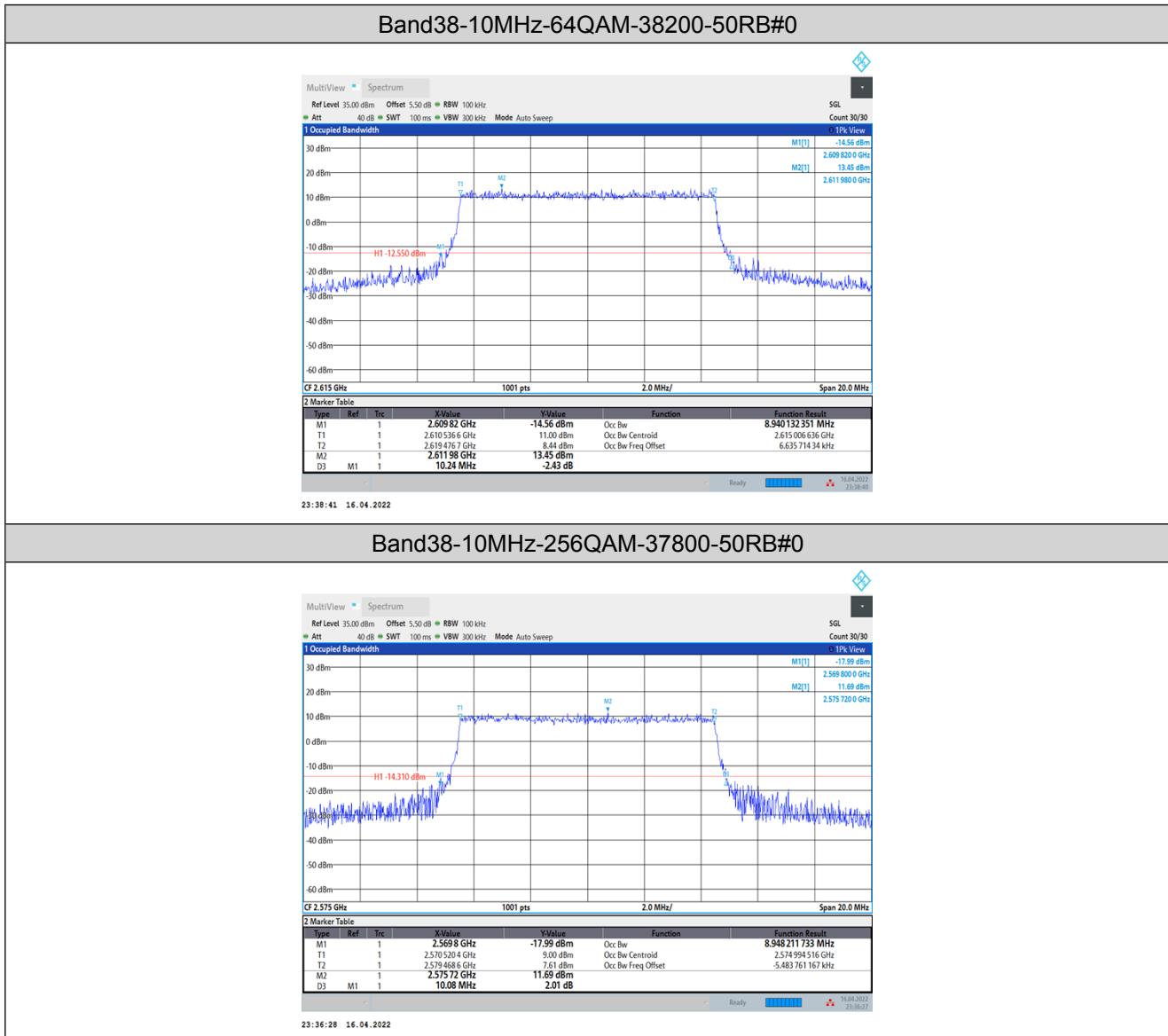
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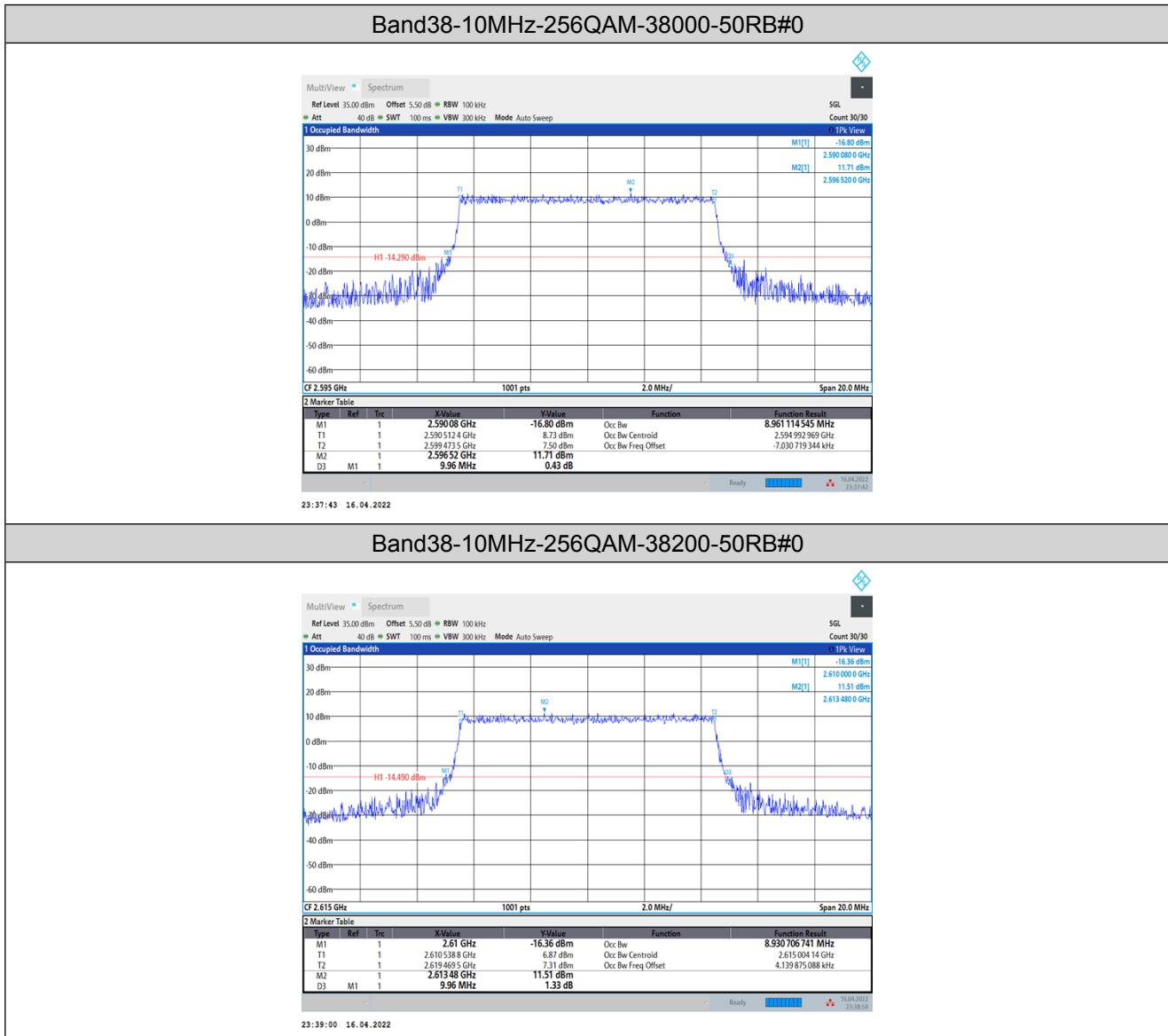
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