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Appendix B.8

LTE Band 38



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.38	25.22	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.49	25.33	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.42	25.26	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.47	24.31	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.49	25.33	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.63	25.47	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.46	25.30	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.53	24.37	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.58	25.42	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.63	25.47	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.56	25.40	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.61	24.45	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.35	24.19	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.48	24.32	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.36	24.20	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.43	23.27	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.48	24.32	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.53	24.37	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.51	24.35	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.54	23.38	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.54	24.38	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.53	24.37	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.52	24.36	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.60	23.44	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.48	23.32	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.53	23.37	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	21.46	23.30	33	PASS



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Band38	5MHz	64QAM	37775	25RB#0	20.44	22.28	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.57	23.41	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.56	23.40	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.59	23.43	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.52	22.36	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	21.63	23.47	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	21.77	23.61	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	21.65	23.49	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.59	22.43	33	PASS
Band38	5MHz	256QAM	37775	1RB#0	18.36	20.20	33	PASS
Band38	5MHz	256QAM	37775	1RB#12	18.45	20.29	33	PASS
Band38	5MHz	256QAM	37775	1RB#24	18.26	20.10	33	PASS
Band38	5MHz	256QAM	37775	25RB#0	18.47	20.31	33	PASS
Band38	5MHz	256QAM	38000	1RB#0	18.48	20.32	33	PASS
Band38	5MHz	256QAM	38000	1RB#12	18.54	20.38	33	PASS
Band38	5MHz	256QAM	38000	1RB#24	18.45	20.29	33	PASS
Band38	5MHz	256QAM	38000	25RB#0	18.53	20.37	33	PASS
Band38	5MHz	256QAM	38225	1RB#0	18.52	20.36	33	PASS
Band38	5MHz	256QAM	38225	1RB#12	18.58	20.42	33	PASS
Band38	5MHz	256QAM	38225	1RB#24	18.45	20.29	33	PASS
Band38	5MHz	256QAM	38225	25RB#0	18.62	20.46	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.36	25.20	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.45	25.29	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.43	25.27	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.49	24.33	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.44	25.28	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.50	25.34	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.51	25.35	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.46	24.30	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.57	25.41	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.60	25.44	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.56	25.40	33	PASS



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Band38	10MHz	QPSK	38200	50RB#0	22.61	24.45	33	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.35	24.19	33	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.38	24.22	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.36	24.20	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.49	23.33	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.43	24.27	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.49	24.33	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.41	24.25	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.47	23.31	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.63	24.47	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.54	24.38	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.58	24.42	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.63	23.47	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.47	23.31	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.58	23.42	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	21.52	23.36	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	20.52	22.36	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	21.54	23.38	33	PASS
Band38	10MHz	64QAM	38000	1RB#24	21.60	23.44	33	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.58	23.42	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.46	22.30	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.70	23.54	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	21.63	23.47	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	21.67	23.51	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	20.64	22.48	33	PASS
Band38	10MHz	256QAM	37800	1RB#0	18.21	20.05	33	PASS
Band38	10MHz	256QAM	37800	1RB#24	18.34	20.18	33	PASS
Band38	10MHz	256QAM	37800	1RB#49	18.38	20.22	33	PASS
Band38	10MHz	256QAM	37800	50RB#0	18.50	20.34	33	PASS
Band38	10MHz	256QAM	38000	1RB#0	18.29	20.13	33	PASS
Band38	10MHz	256QAM	38000	1RB#24	18.53	20.37	33	PASS
Band38	10MHz	256QAM	38000	1RB#49	18.31	20.15	33	PASS



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Band38	10MHz	256QAM	38200	1RB#0	18.46	20.30	33	PASS
Band38	10MHz	256QAM	38200	1RB#24	18.50	20.34	33	PASS
Band38	10MHz	256QAM	38200	1RB#49	18.50	20.34	33	PASS
Band38	10MHz	256QAM	38200	50RB#0	18.62	20.46	33	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.17	25.01	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.25	25.09	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.23	25.07	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.37	24.21	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.29	25.13	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.36	25.20	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.25	25.09	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.36	24.20	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.41	25.25	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.38	25.22	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.34	25.18	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.51	24.35	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.17	24.01	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.21	24.05	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.17	24.01	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.36	23.20	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.24	24.08	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.32	24.16	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.31	24.15	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.36	23.20	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.36	24.20	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.32	24.16	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.36	24.20	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.52	23.36	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.33	23.17	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	21.24	23.08	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.33	23.17	33	PASS



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Band38	15MHz	64QAM	38000	1RB#0	21.44	23.28	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.41	23.25	33	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.30	23.14	33	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.32	22.16	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.48	23.32	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	21.48	23.32	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	21.45	23.29	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.50	22.34	33	PASS
Band38	15MHz	256QAM	37825	1RB#0	18.18	20.02	33	PASS
Band38	15MHz	256QAM	37825	1RB#38	18.27	20.11	33	PASS
Band38	15MHz	256QAM	37825	1RB#74	18.43	20.27	33	PASS
Band38	15MHz	256QAM	37825	75RB#0	18.39	20.23	33	PASS
Band38	15MHz	256QAM	38000	1RB#0	18.45	20.29	33	PASS
Band38	15MHz	256QAM	38000	1RB#38	18.35	20.19	33	PASS
Band38	15MHz	256QAM	38000	1RB#74	18.42	20.26	33	PASS
Band38	15MHz	256QAM	38000	75RB#0	18.38	20.22	33	PASS
Band38	15MHz	256QAM	38175	1RB#0	18.40	20.24	33	PASS
Band38	15MHz	256QAM	38175	1RB#38	18.45	20.29	33	PASS
Band38	15MHz	256QAM	38175	1RB#74	18.38	20.22	33	PASS
Band38	15MHz	256QAM	38175	75RB#0	18.48	20.32	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.30	25.14	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.30	25.14	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.27	25.11	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.38	24.22	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.31	25.15	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.32	25.16	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.23	25.07	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.32	24.16	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.49	25.33	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.36	25.20	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.36	25.20	33	PASS



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Band38	20MHz	16QAM	37850	1RB#0	22.31	24.15	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.32	24.16	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.16	24.00	33	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.37	23.21	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.35	24.19	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.29	24.13	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.21	24.05	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.34	23.18	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.40	24.24	33	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.47	24.31	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.19	24.03	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.47	23.31	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.29	23.13	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.29	23.13	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.33	23.17	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.41	22.25	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.32	23.16	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.31	23.15	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.23	23.07	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.33	22.17	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	21.49	23.33	33	PASS
Band38	20MHz	64QAM	38150	1RB#49	21.42	23.26	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	21.38	23.22	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.46	22.30	33	PASS
Band38	20MHz	256QAM	37850	1RB#0	18.38	20.22	33	PASS
Band38	20MHz	256QAM	37850	1RB#49	18.34	20.18	33	PASS
Band38	20MHz	256QAM	37850	1RB#99	18.24	20.08	33	PASS
Band38	20MHz	256QAM	37850	100RB#0	18.38	20.22	33	PASS
Band38	20MHz	256QAM	38000	1RB#0	18.35	20.19	33	PASS
Band38	20MHz	256QAM	38000	1RB#49	18.22	20.06	33	PASS
Band38	20MHz	256QAM	38000	1RB#99	18.21	20.05	33	PASS



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Band38	20MHz	256QAM	38000	100RB#0	18.36	20.20	33	PASS
Band38	20MHz	256QAM	38150	1RB#0	18.48	20.32	33	PASS
Band38	20MHz	256QAM	38150	1RB#49	18.42	20.26	33	PASS
Band38	20MHz	256QAM	38150	1RB#99	18.38	20.22	33	PASS
Band38	20MHz	256QAM	38150	100RB#0	18.50	20.34	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	7.80	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.70	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	7.68	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	8.48	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	8.56	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	8.42	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.80	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	8.70	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	8.74	13	PASS
Band38	20MHz	256QAM	37850	100RB#0	8.98	13	PASS
Band38	20MHz	256QAM	38000	100RB#0	8.98	13	PASS
Band38	20MHz	256QAM	38150	100RB#0	8.98	13	PASS



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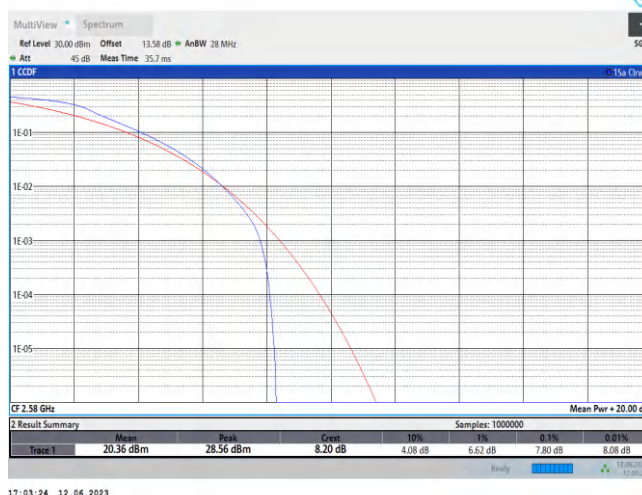
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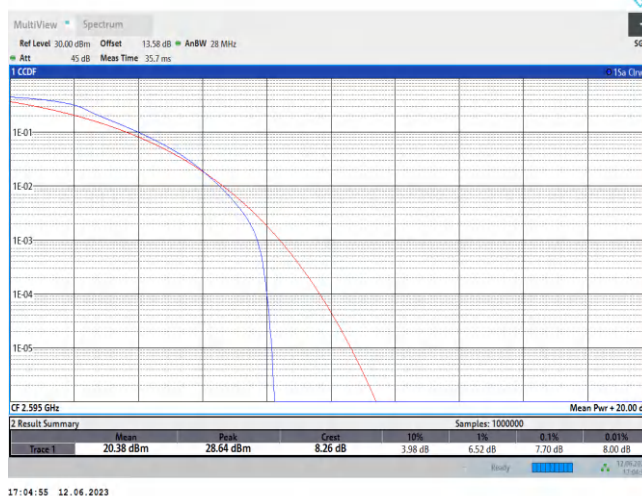
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Test Graphs

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



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



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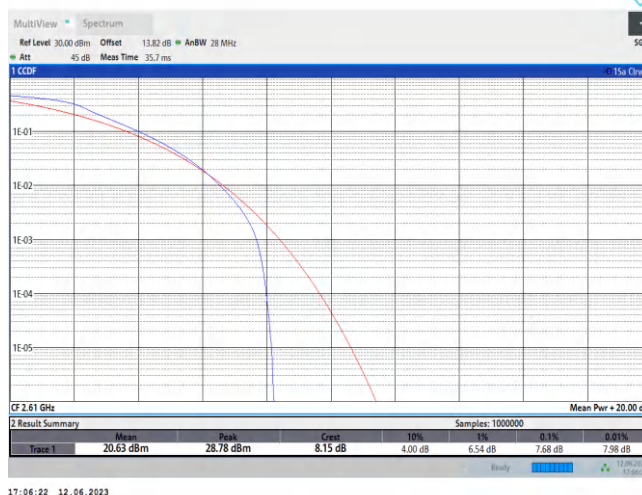
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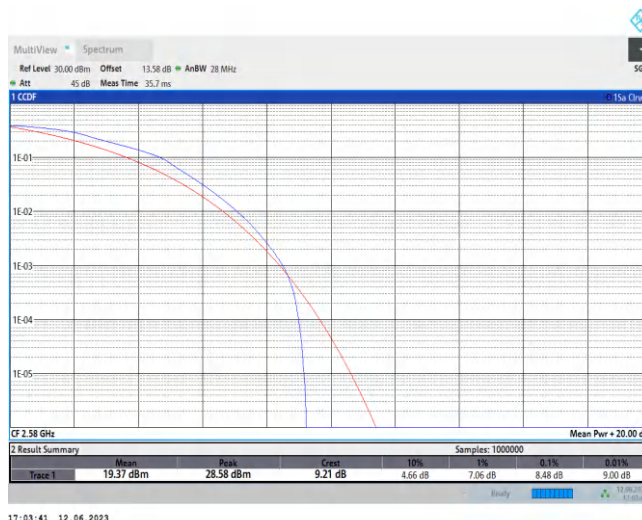
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Band38-20MHz-QPSK-38150-100RB#0



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



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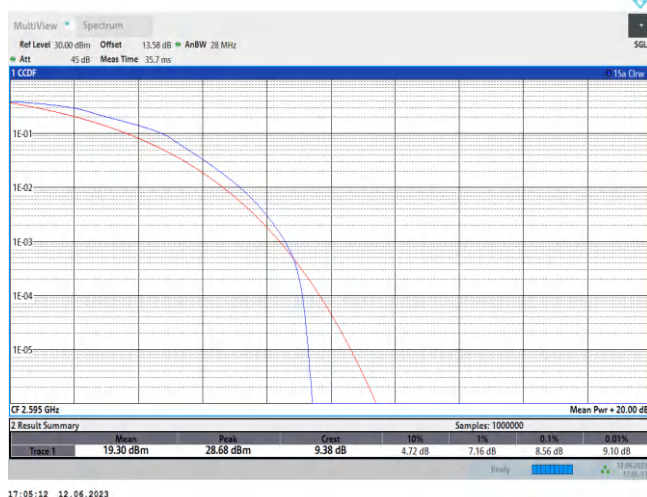
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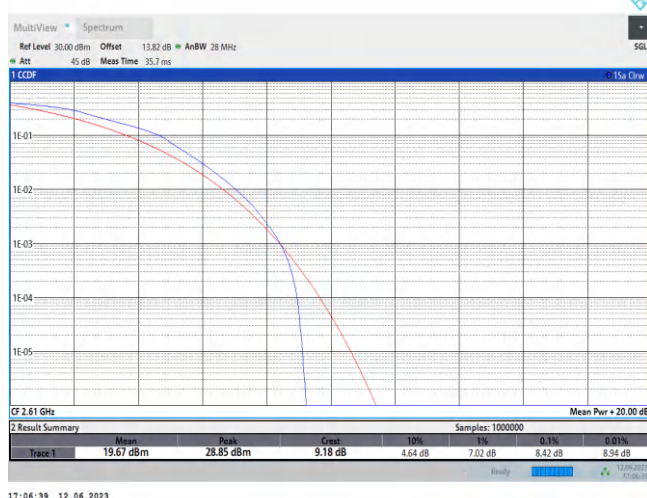
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Band38-20MHz-16QAM-38000-100RB#0



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



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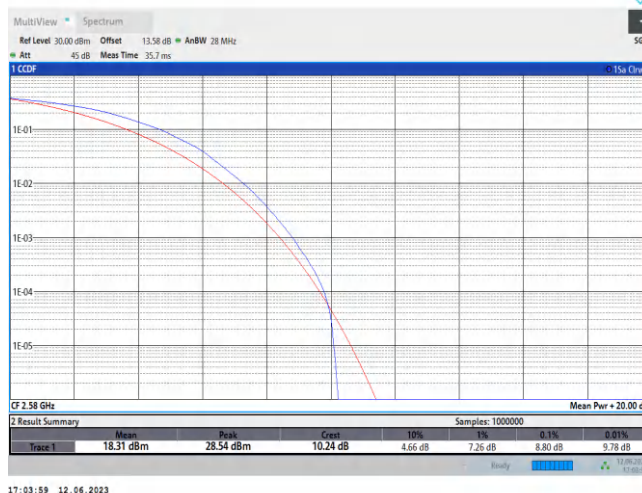
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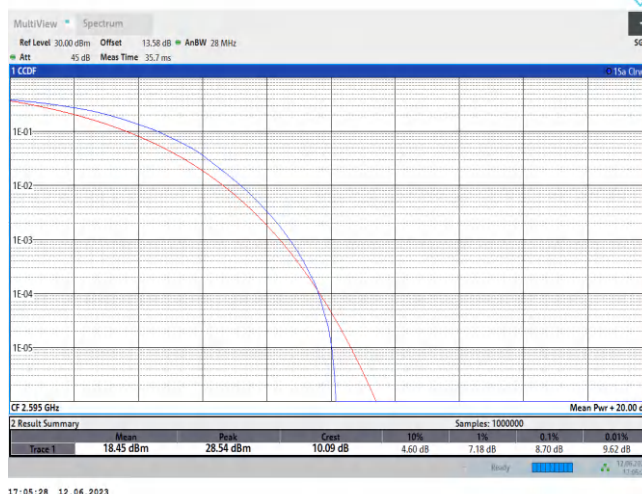
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Band38-20MHz-64QAM-37850-100RB#0



Band38-20MHz-64QAM-38000-100RB#0



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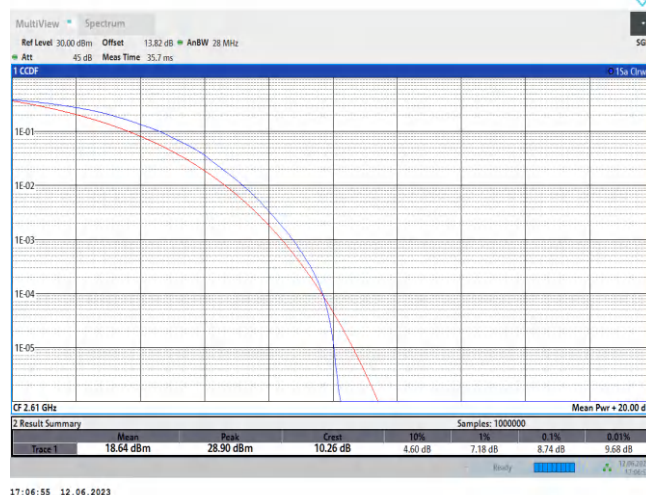
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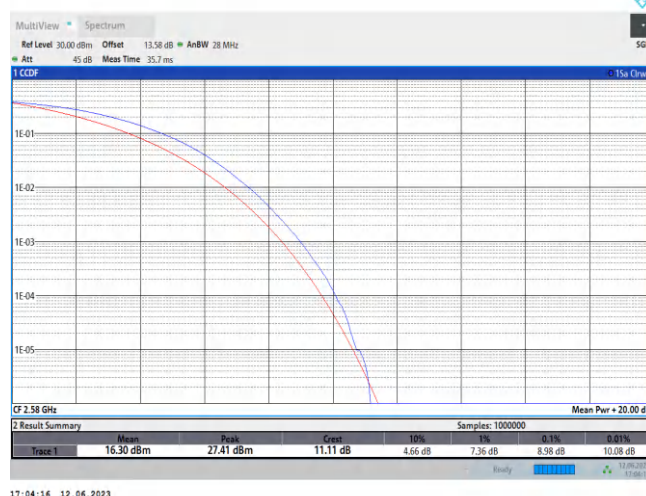
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Band38-20MHz-64QAM-38150-100RB#0



Band38-20MHz-256QAM-37850-100RB#0



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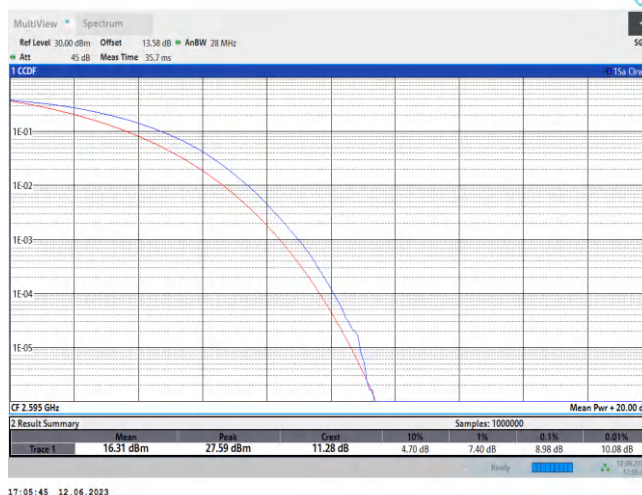
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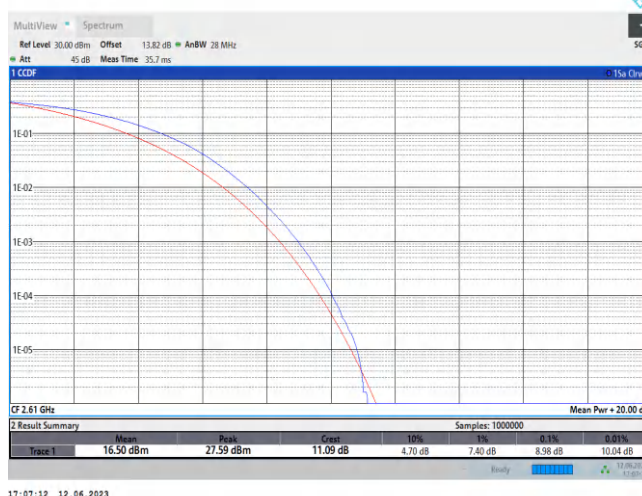
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Band38-20MHz-256QAM-38000-100RB#0



Band38-20MHz-256QAM-38150-100RB#0



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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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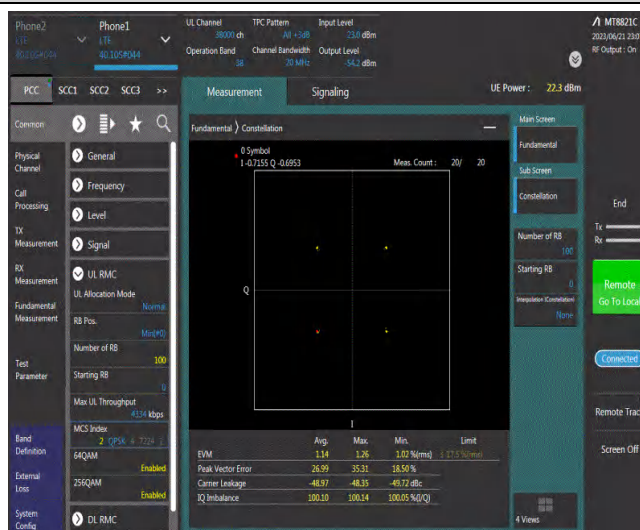
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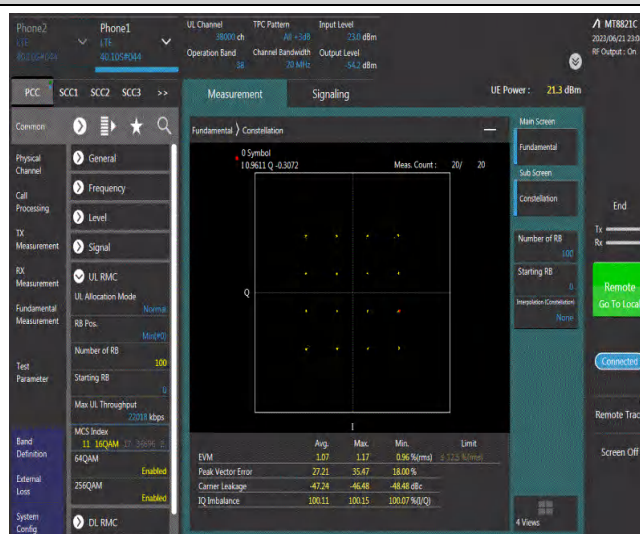
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Test Graphs

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



Band38-20MHz-16QAM-38000-100RB#0

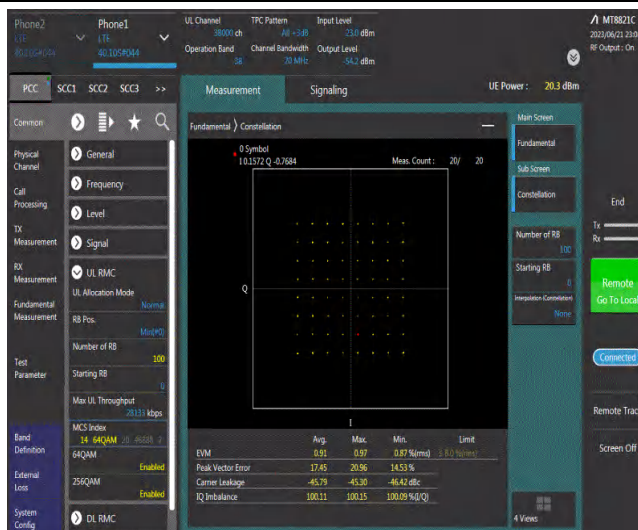


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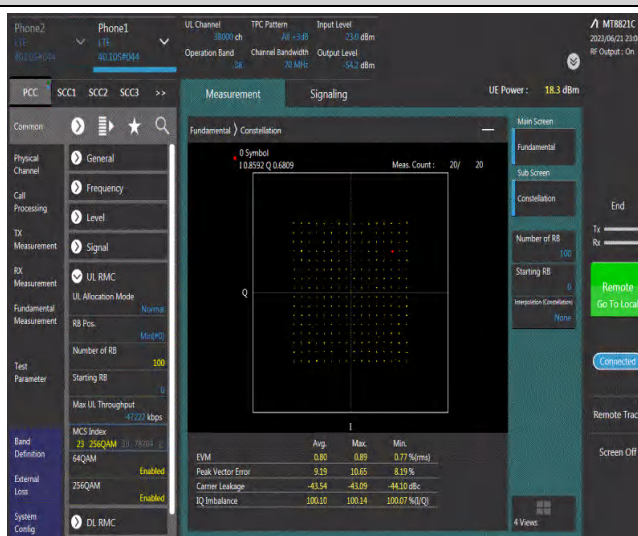
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Band38-20MHz-64QAM-38000-100RB#0



Band38-20MHz-256QAM-38000-100RB#0



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	4.478	5.05	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.483	5.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.475	5.05	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.475	5.04	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.477	5.08	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.479	5.02	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.48	4.99	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.481	5.09	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.479	5.07	PASS
Band38	5MHz	256QAM	37775	25RB#0	4.474	5.01	PASS
Band38	5MHz	256QAM	38000	25RB#0	4.473	5.03	PASS
Band38	5MHz	256QAM	38225	25RB#0	4.474	5.04	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.937	9.98	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.947	9.90	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.935	9.78	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.935	9.86	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.958	9.84	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.943	9.86	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.946	9.82	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.926	9.82	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.934	9.72	PASS
Band38	10MHz	256QAM	37800	50RB#0	8.931	9.94	PASS
Band38	10MHz	256QAM	38000	50RB#0	8.939	9.84	PASS
Band38	10MHz	256QAM	38200	50RB#0	8.951	9.88	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.5	15.09	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.504	15.27	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.499	15.18	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.493	15.06	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.503	15.03	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.5	15.03	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.498	15.06	PASS



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Band38	15MHz	64QAM	38000	75RB#0	13.492	15.24	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.493	15.15	PASS
Band38	15MHz	256QAM	37825	75RB#0	13.502	15.06	PASS
Band38	15MHz	256QAM	38000	75RB#0	13.481	15.03	PASS
Band38	15MHz	256QAM	38175	75RB#0	13.511	15.12	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.933	19.84	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.937	19.80	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.923	19.80	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.953	19.76	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.917	19.68	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.941	19.68	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.93	19.88	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.915	19.84	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.916	19.76	PASS
Band38	20MHz	256QAM	37850	100RB#0	17.927	19.68	PASS
Band38	20MHz	256QAM	38000	100RB#0	17.926	19.72	PASS
Band38	20MHz	256QAM	38150	100RB#0	17.897	19.68	PASS



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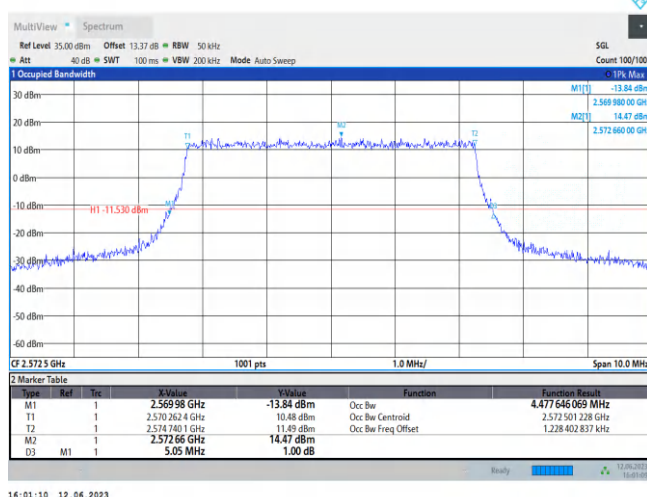
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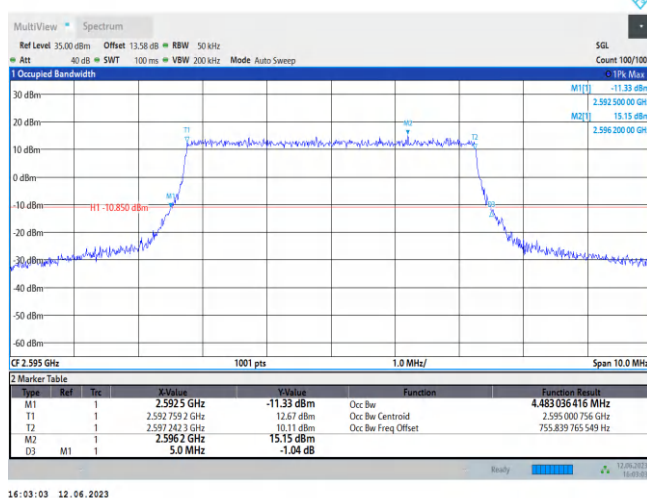
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Test Graphs

Band38-5MHz-QPSK-37775-25RB#0



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



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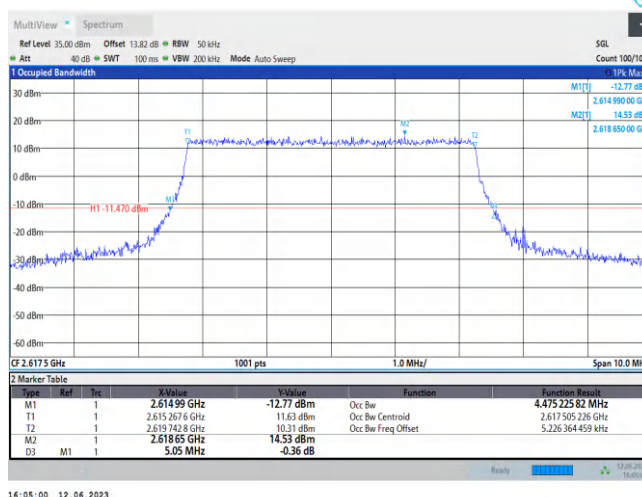
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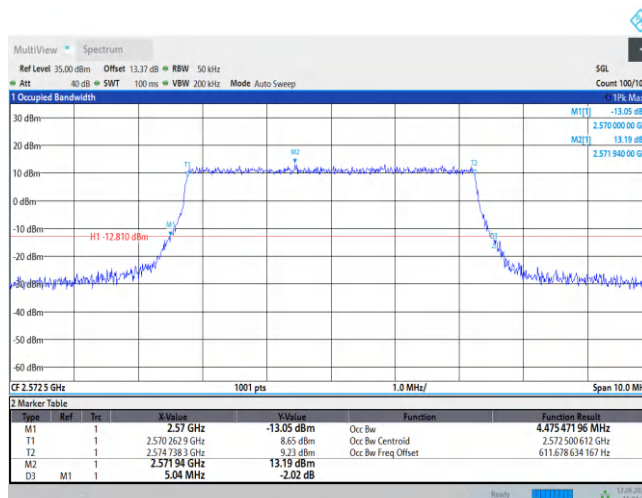
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16:05:00 12.06.2023

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



16:01:33 12.06.2023



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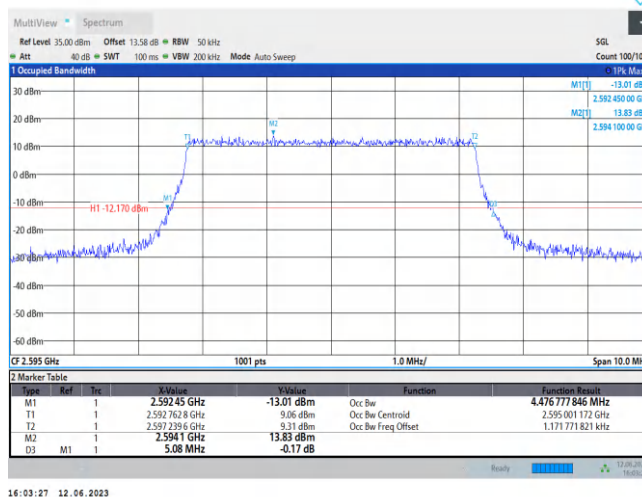
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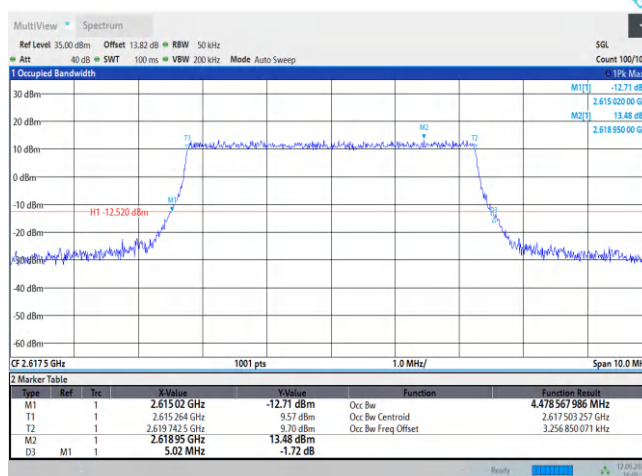
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16:03:27 12.06.2023

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



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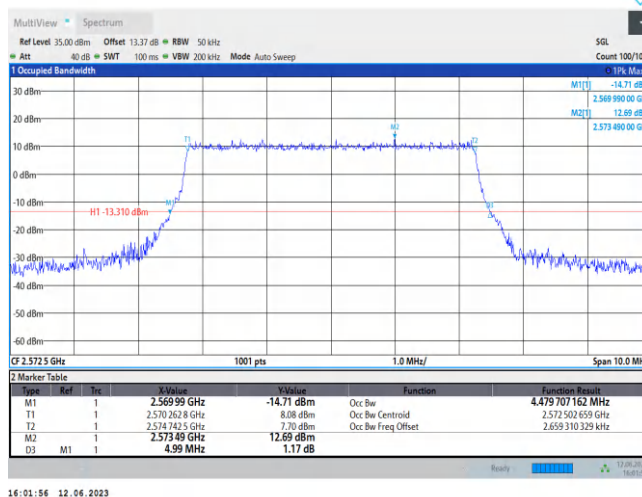
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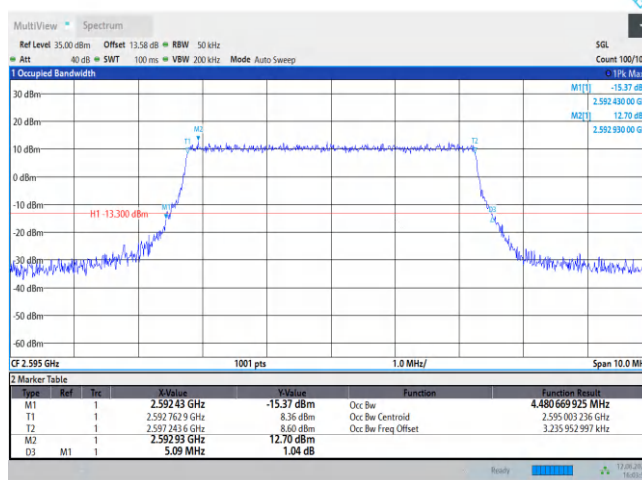
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Band38-5MHz-64QAM-37775-25RB#0



16:01:56 12.06.2023

Band38-5MHz-64QAM-38000-25RB#0



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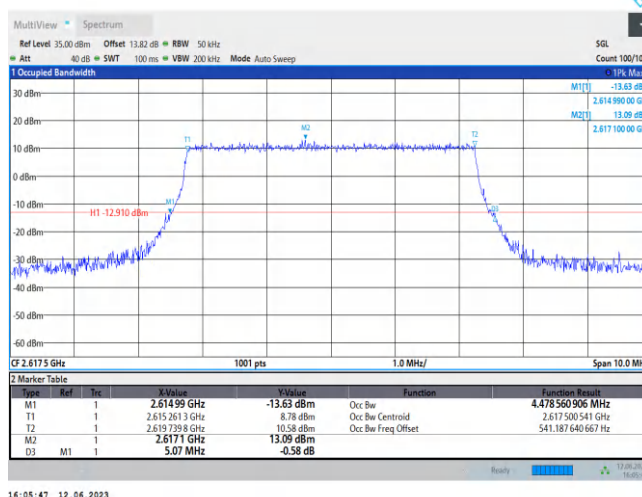
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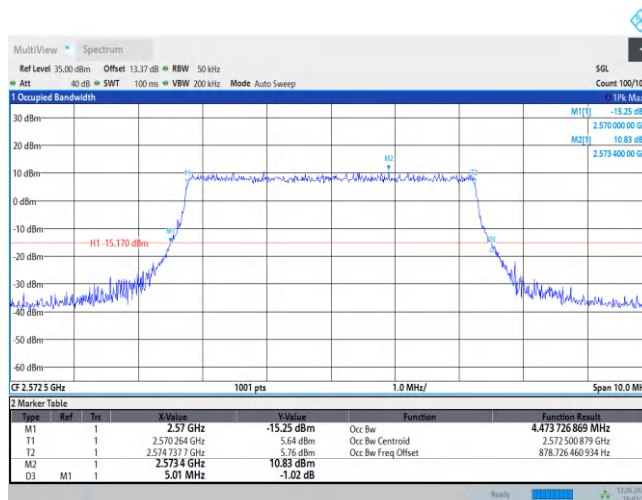
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Band38-5MHz-64QAM-38225-25RB#0



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



16:02:19 12.06.2023



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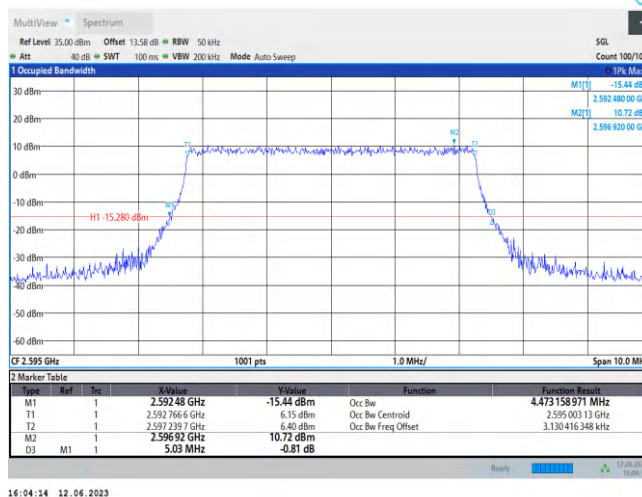
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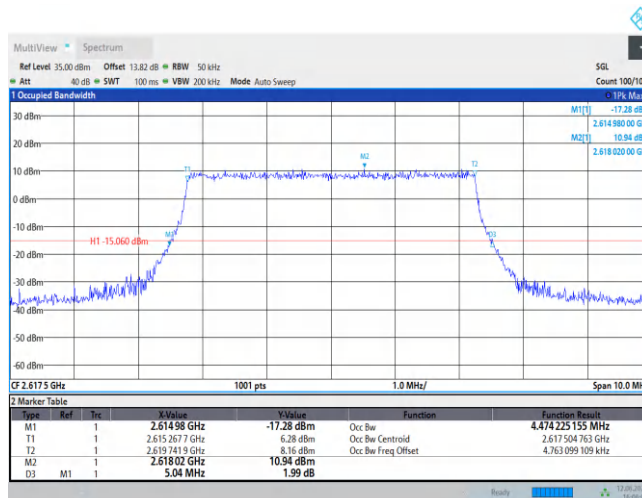
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Band38-5MHz-256QAM-38225-25RB#0



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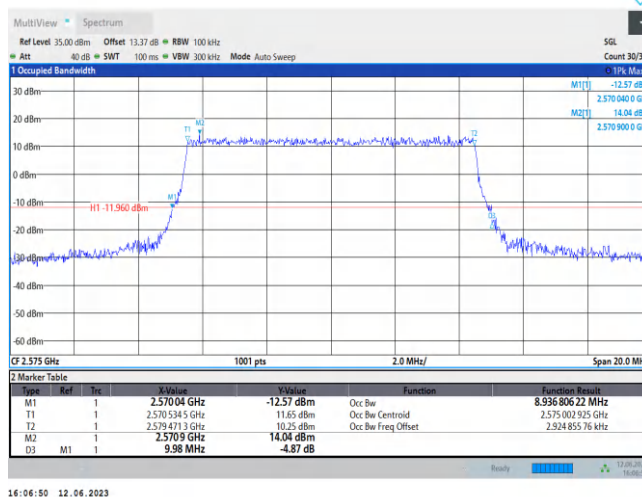
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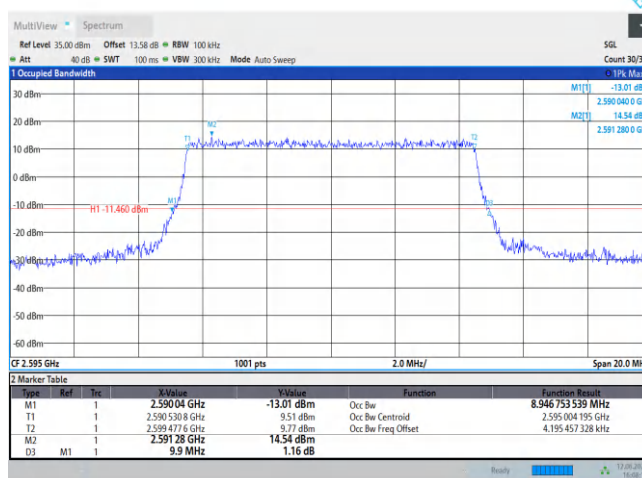
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Band38-10MHz-QPSK-37800-50RB#0



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



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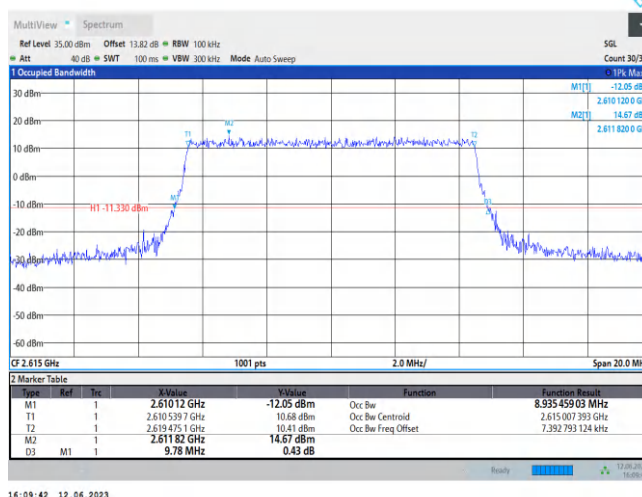
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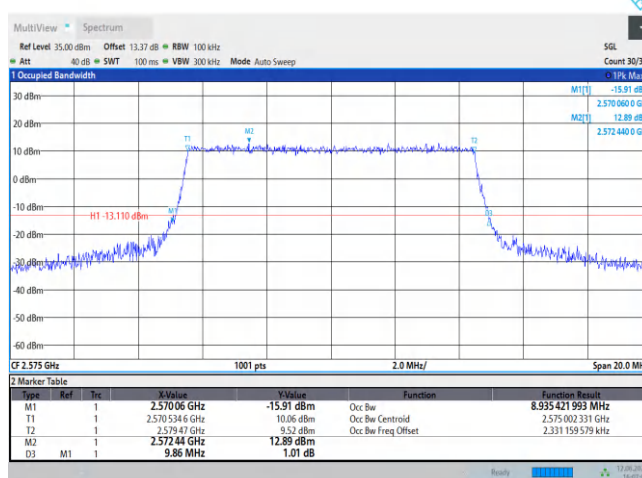
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Band38-10MHz-QPSK-38200-50RB#0



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



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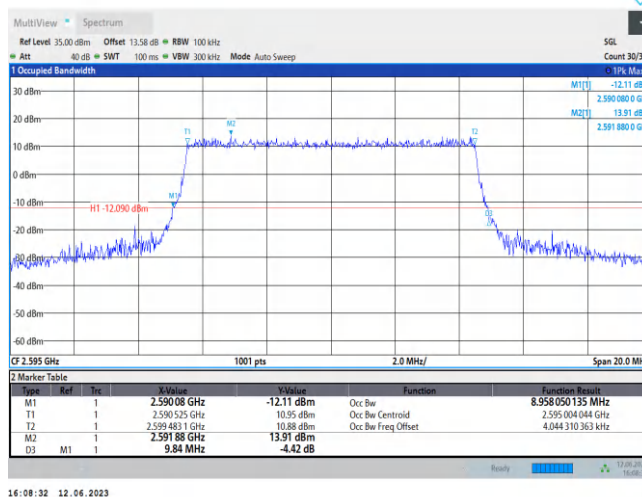
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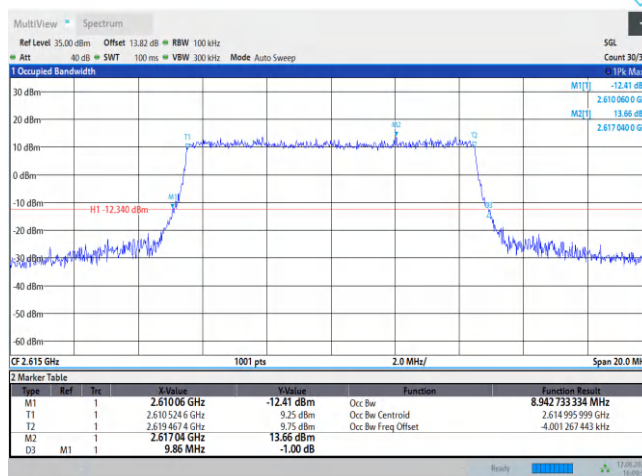
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Band38-10MHz-16QAM-38000-50RB#0



16:08:32 12.06.2023

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



16:09:58 12.06.2023



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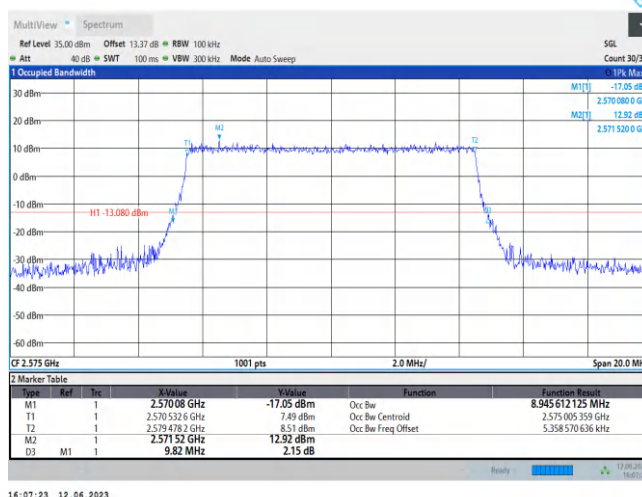
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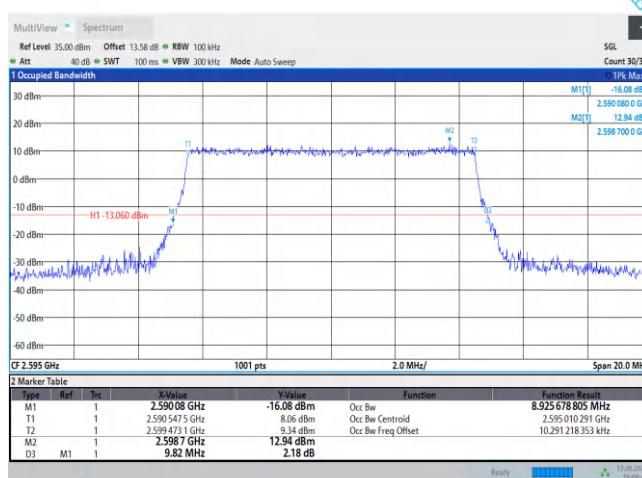
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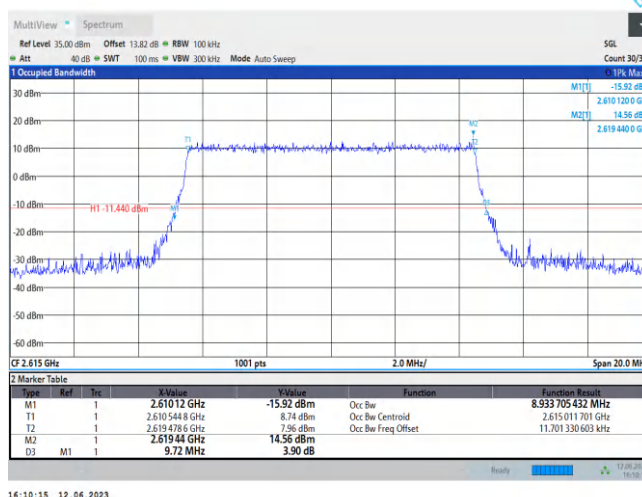
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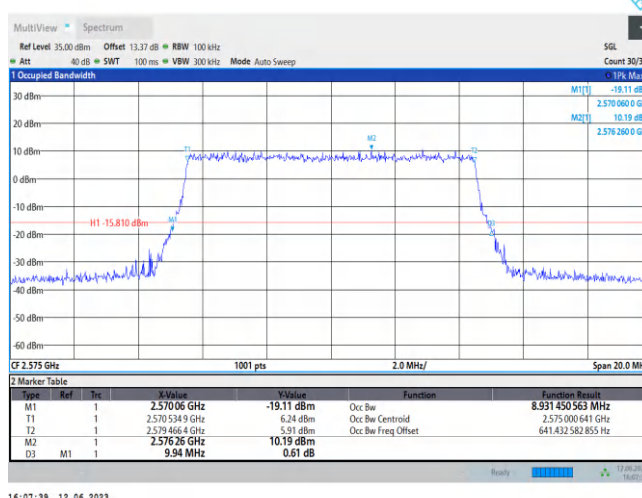
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Band38-10MHz-64QAM-38200-50RB#0



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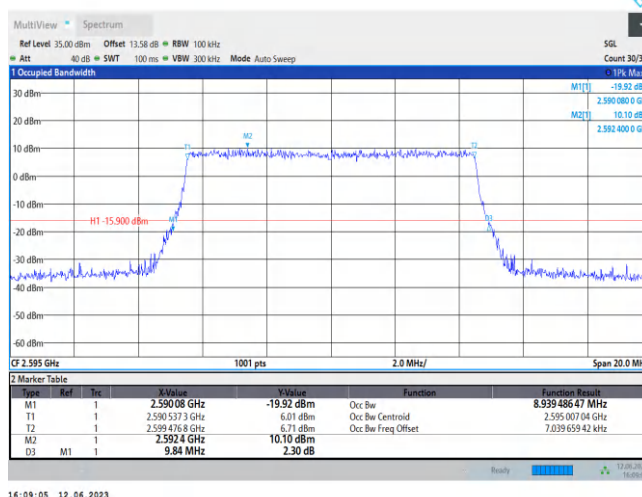
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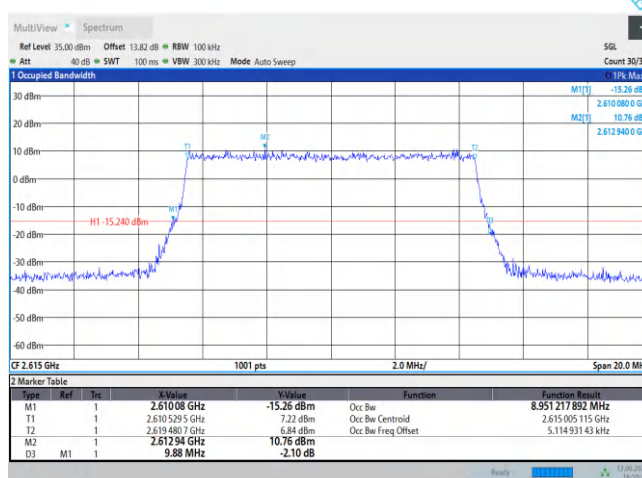
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Band38-10MHz-256QAM-38200-50RB#0



16:10:31 12.06.2023



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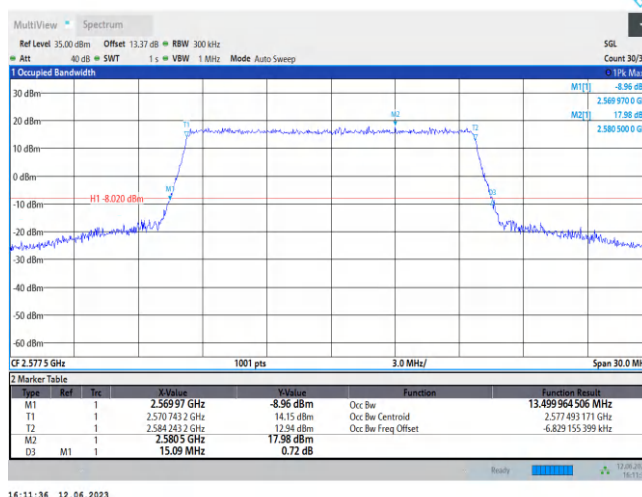
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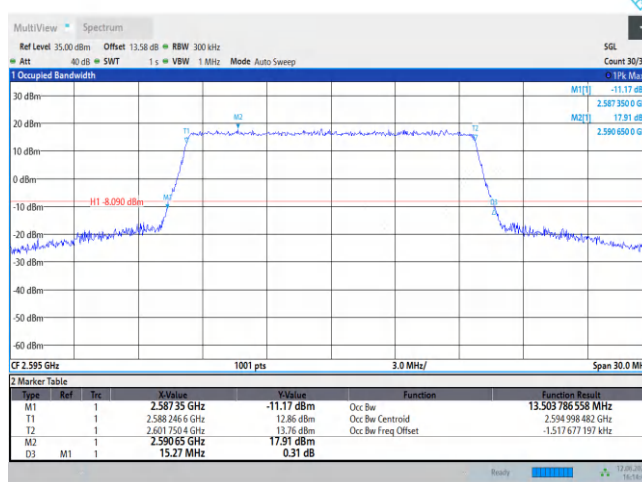
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16:11:36 12.06.2023

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



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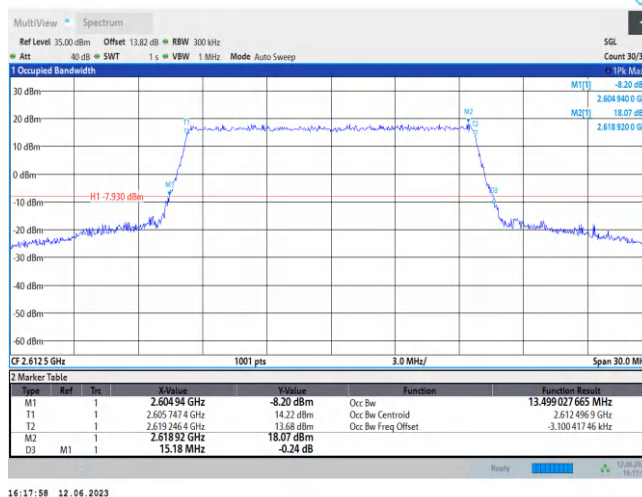
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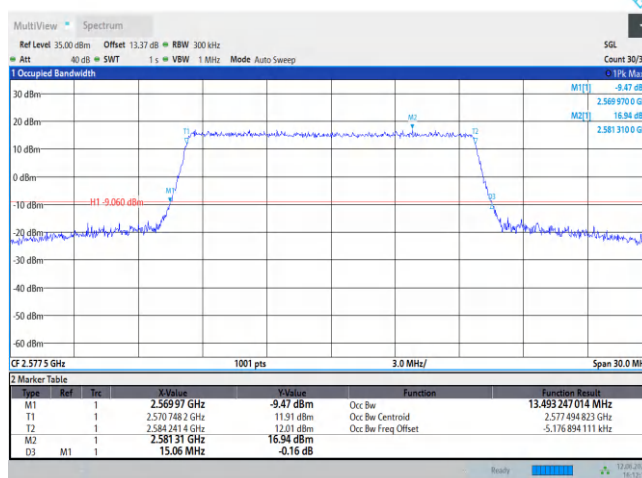
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16:17:58 12.06.2023

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



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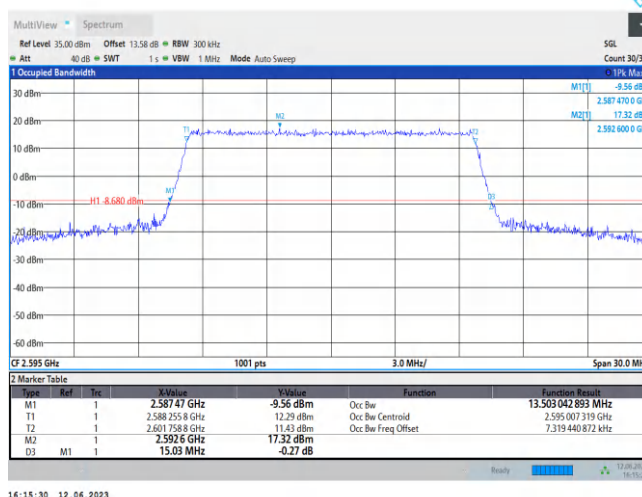
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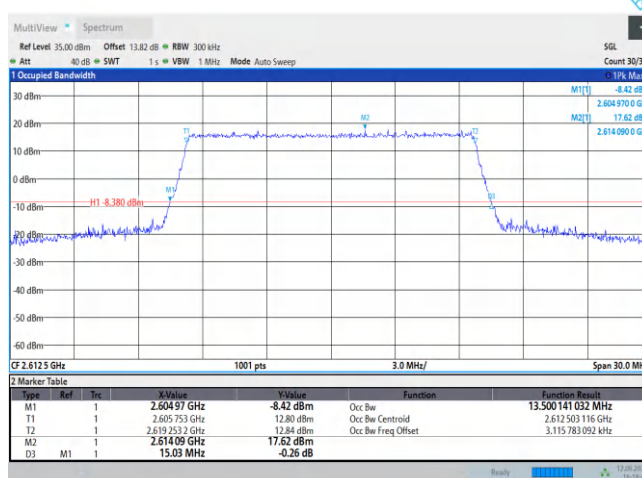
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Band38-15MHz-16QAM-38175-75RB#0



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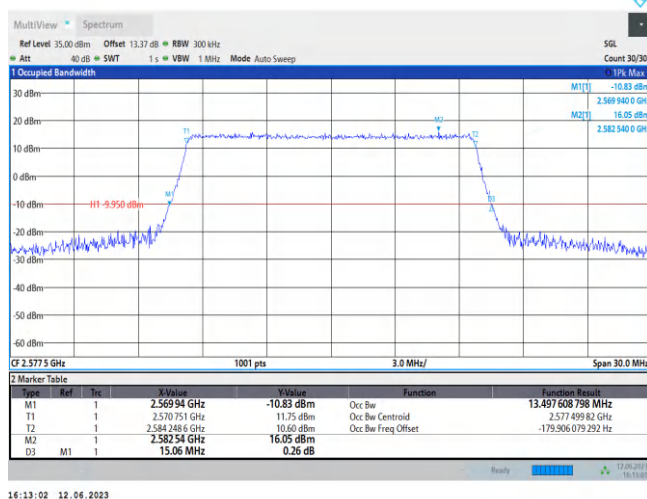
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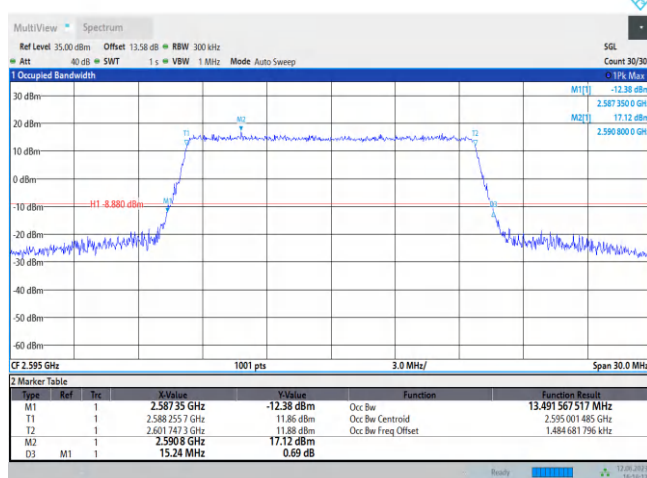
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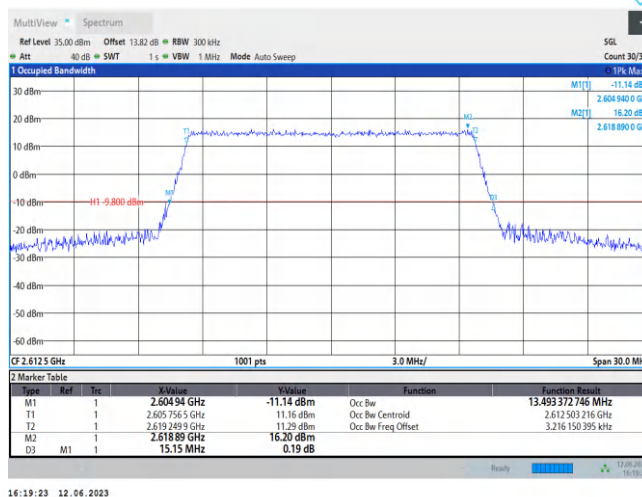
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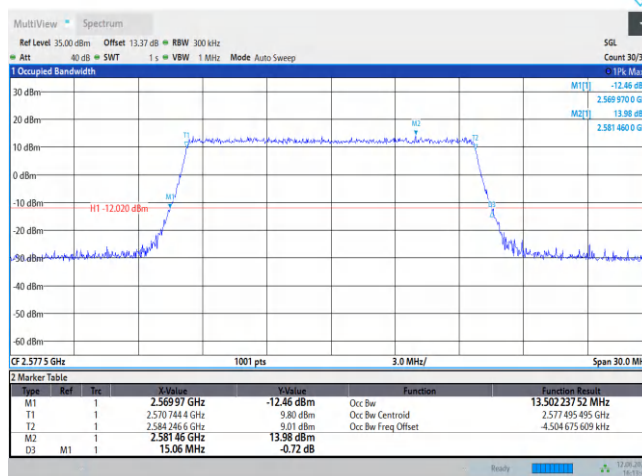
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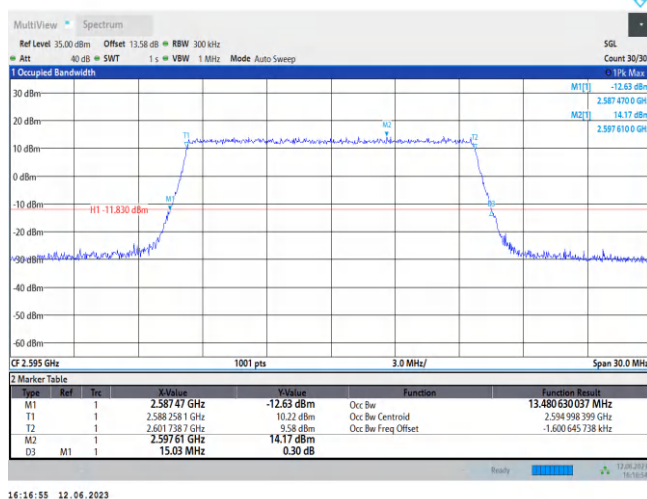
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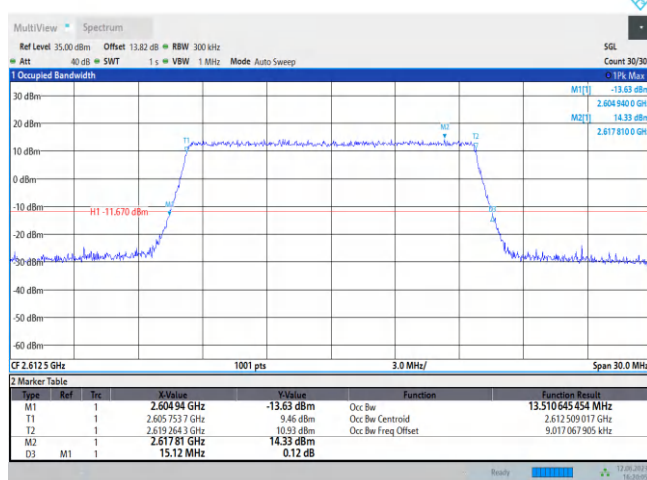
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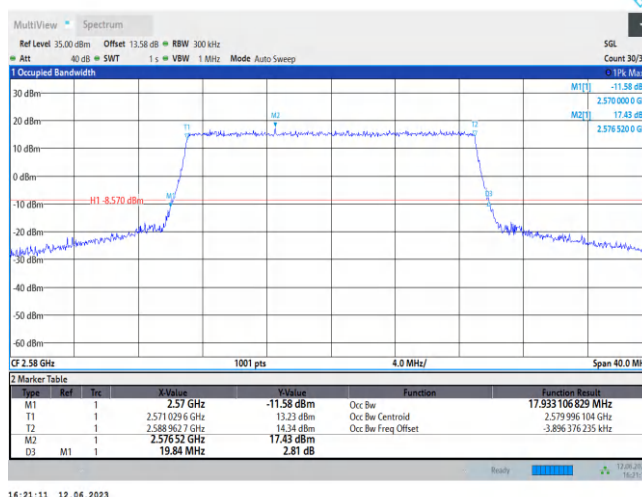
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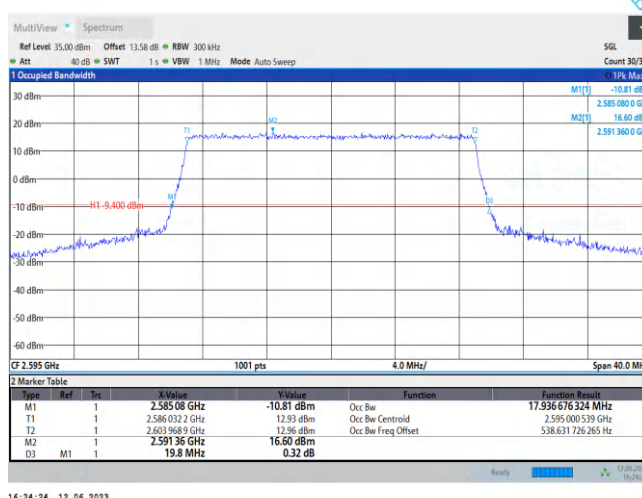
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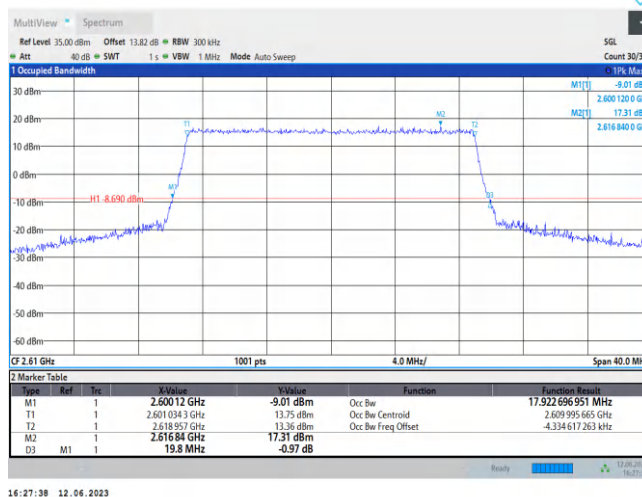
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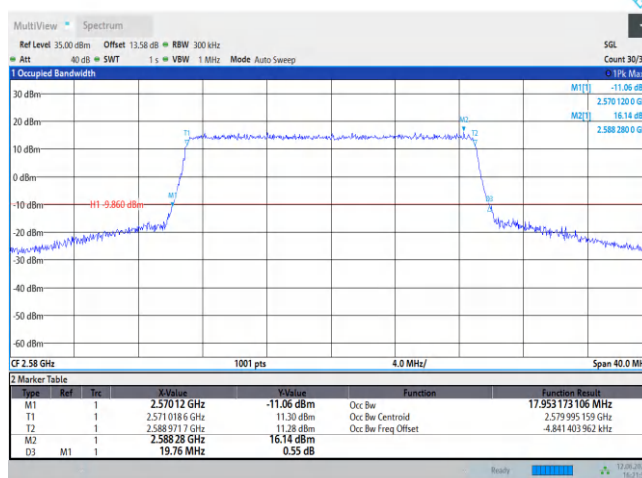
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Band38-20MHz-16QAM-37850-100RB#0



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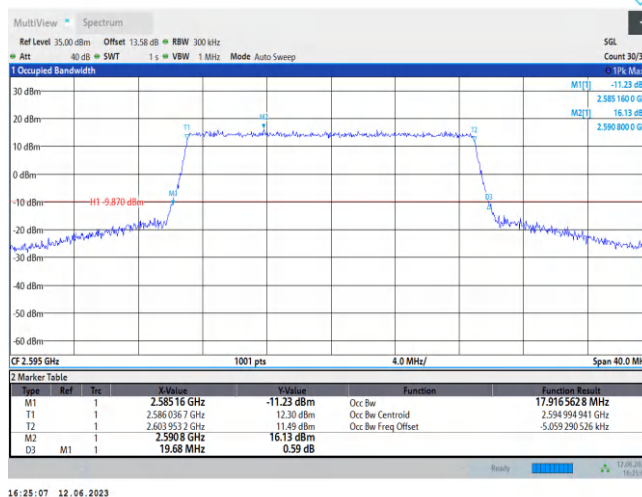
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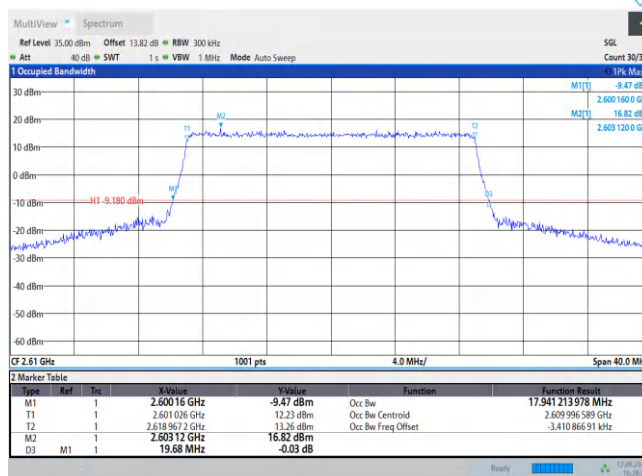
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Band38-20MHz-16QAM-38150-100RB#0



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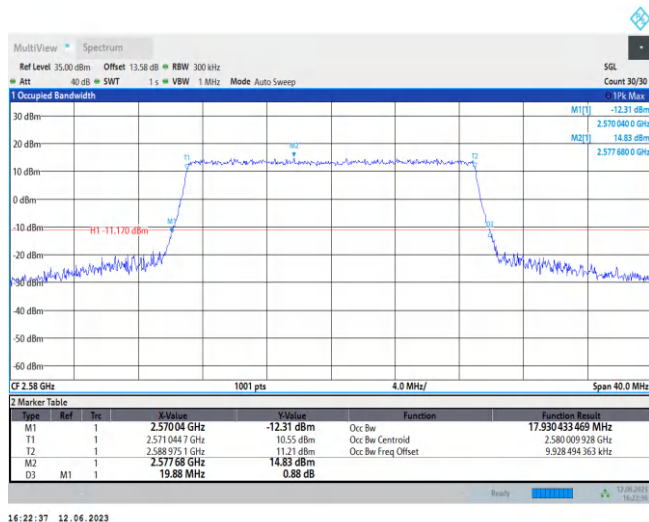
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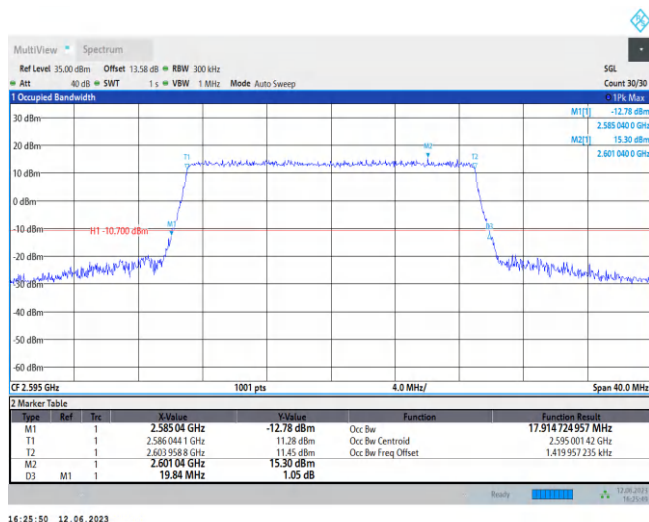
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Band38-20MHz-64QAM-37850-100RB#0



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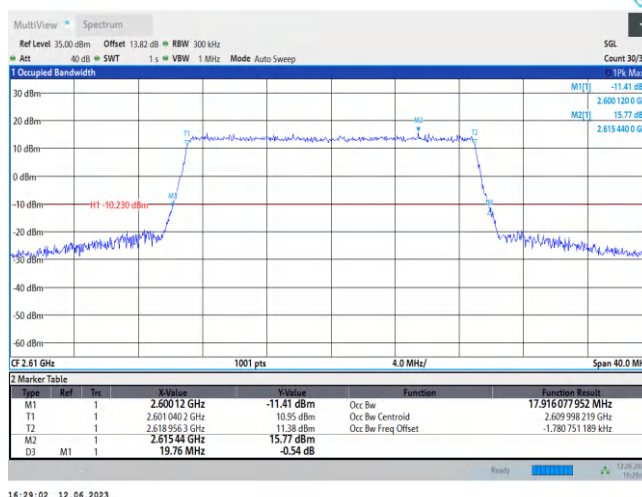
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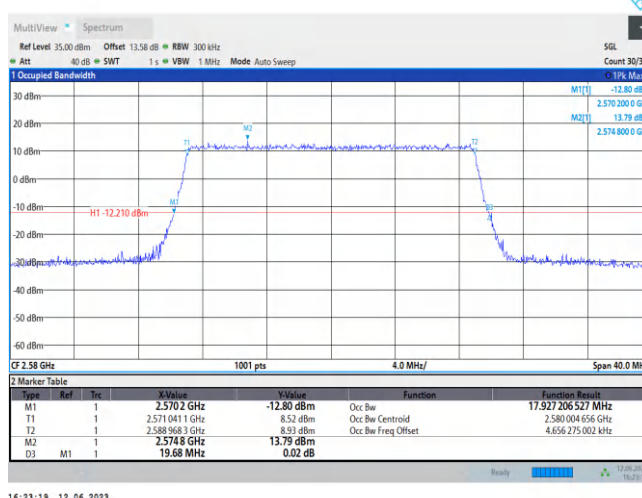
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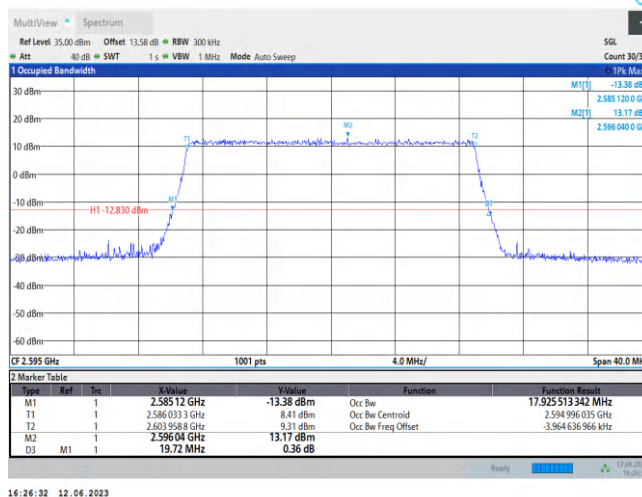
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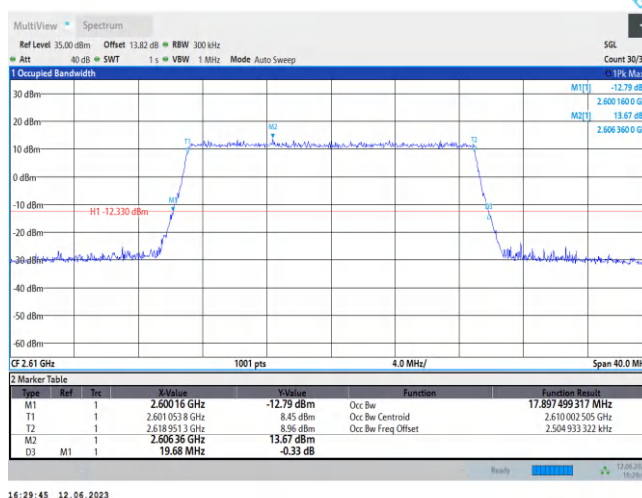
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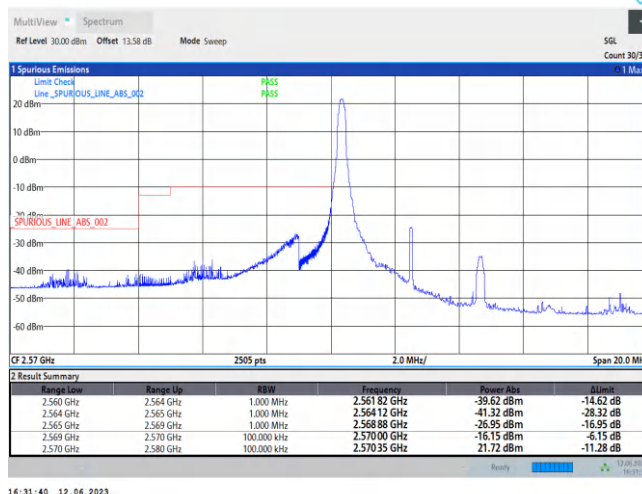
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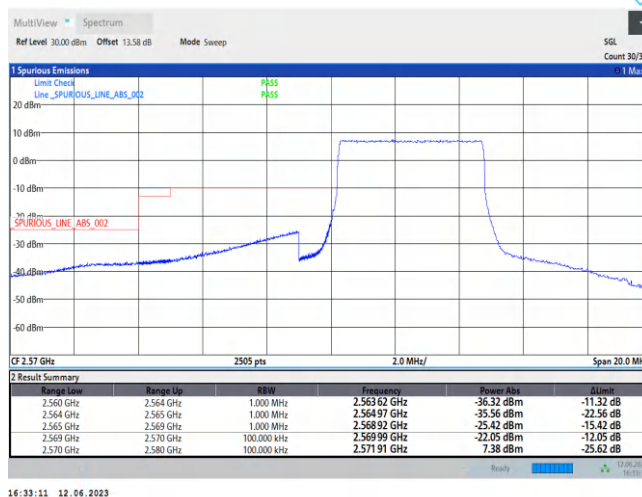
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Test Graphs

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Band38-5MHz-QPSK-37775-25RB#0



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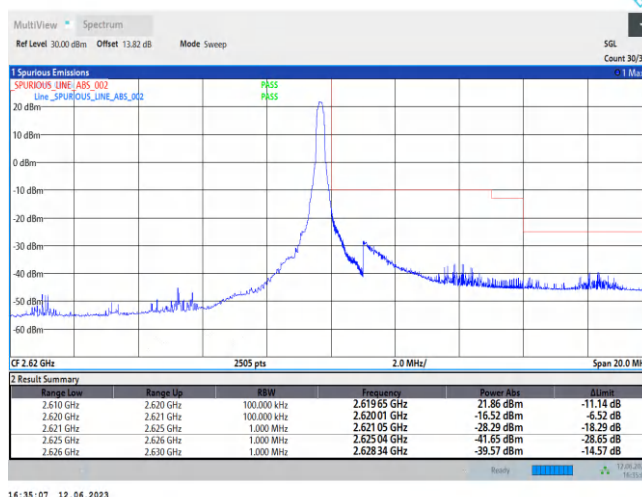
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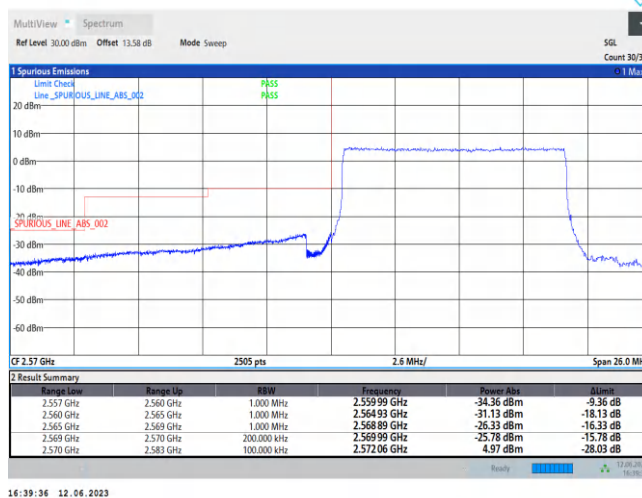
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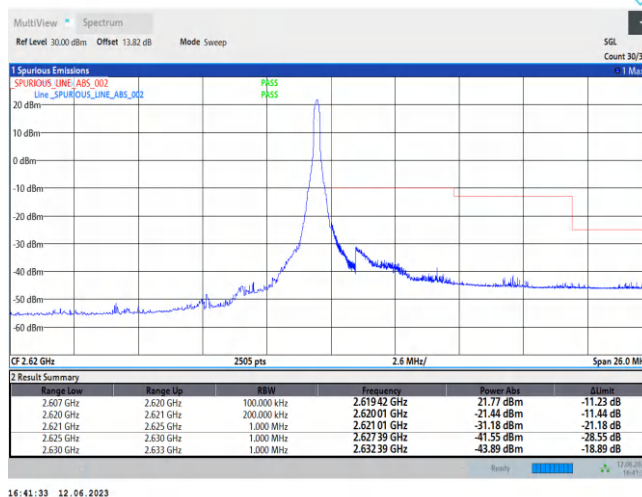
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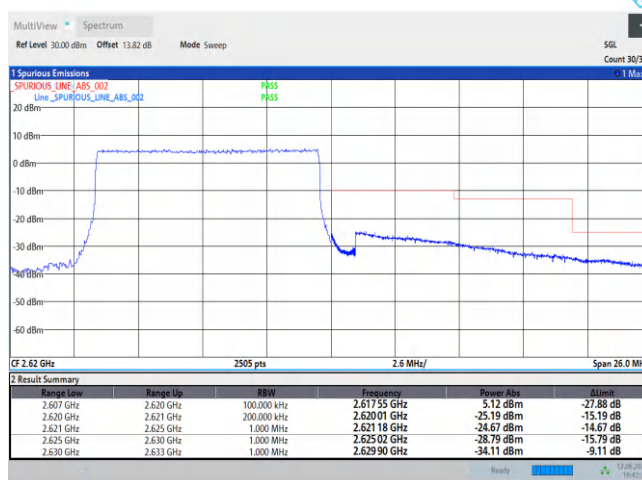
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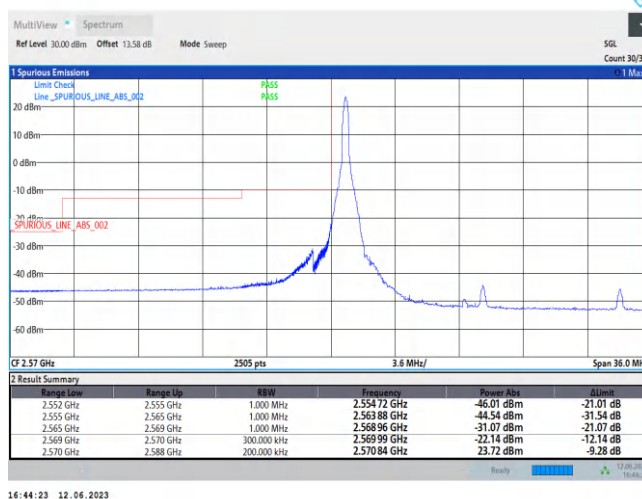
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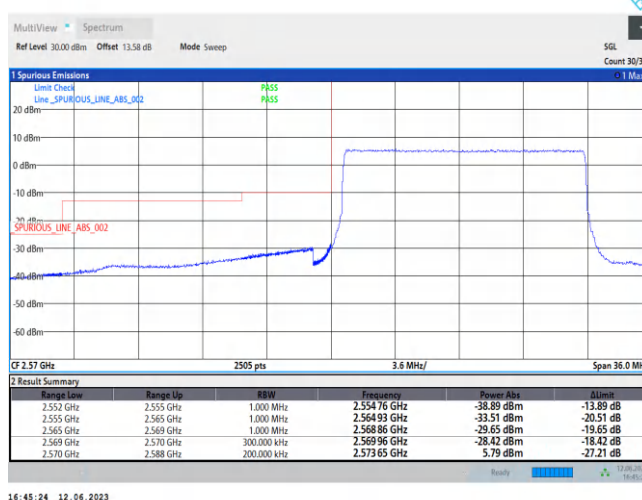
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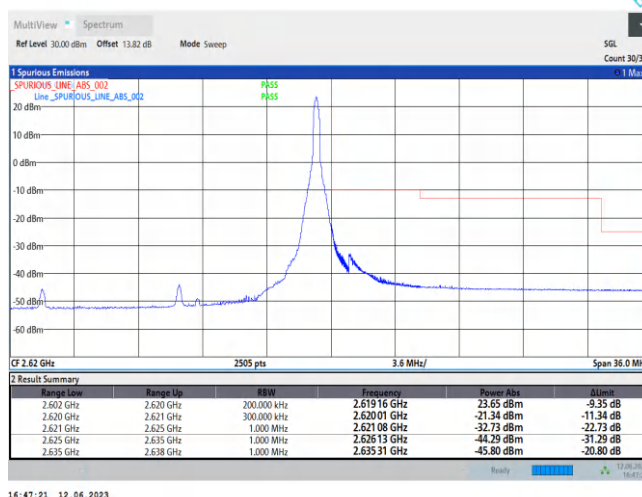
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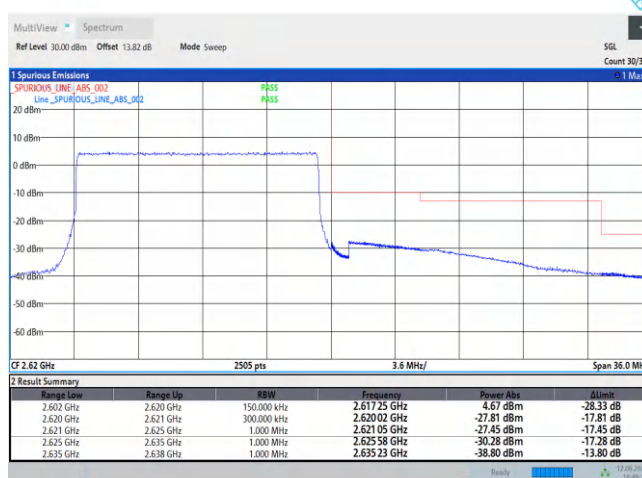
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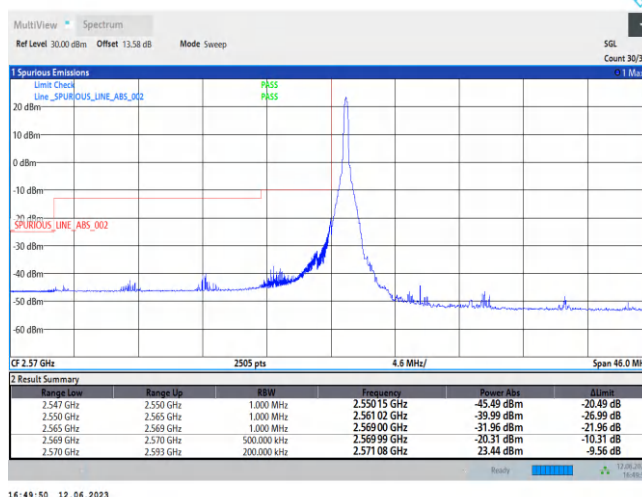
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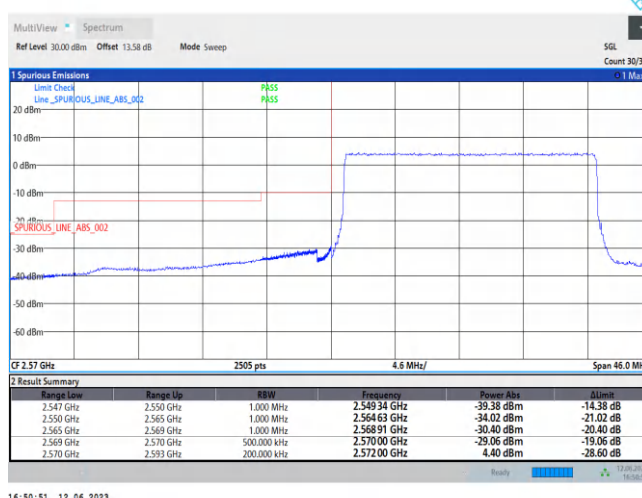
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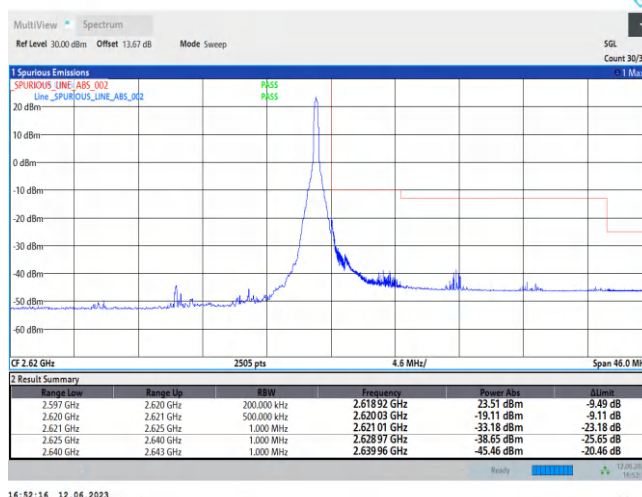
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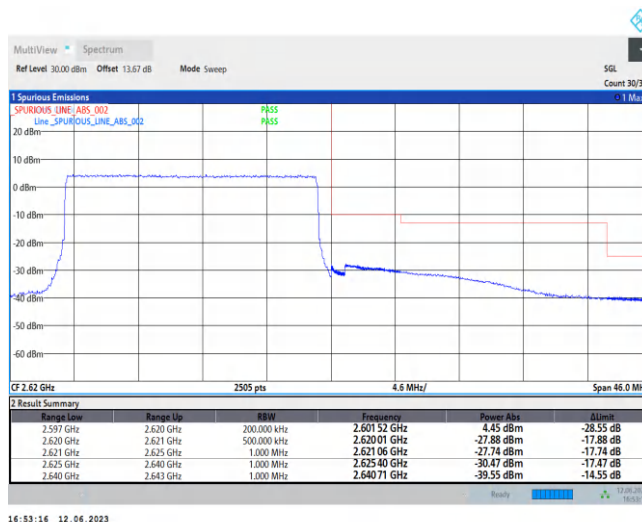
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Band38-20MHz-QPSK-38150-1RB#99



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



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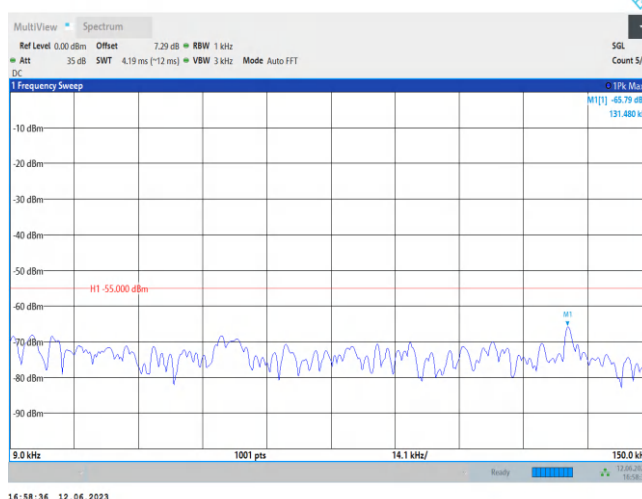
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Conducted Spurious Emission

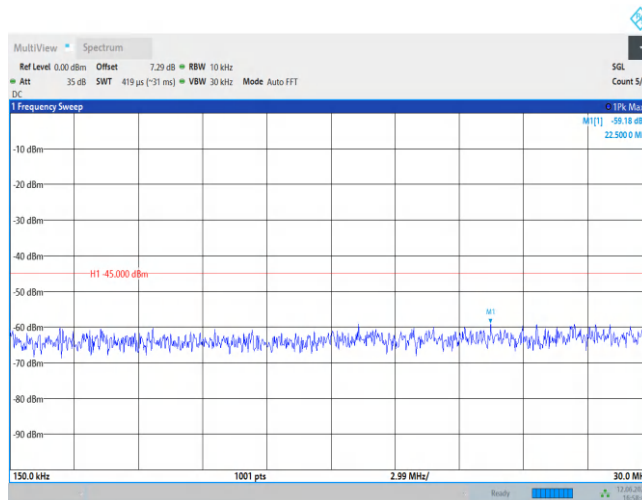
Test Graphs

Band38-20MHz-QPSK-37850-1RB#0-Range1:0.009~0.15MHz



16:58:36 12.06.2023

Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz



16:58:44 12.06.2023



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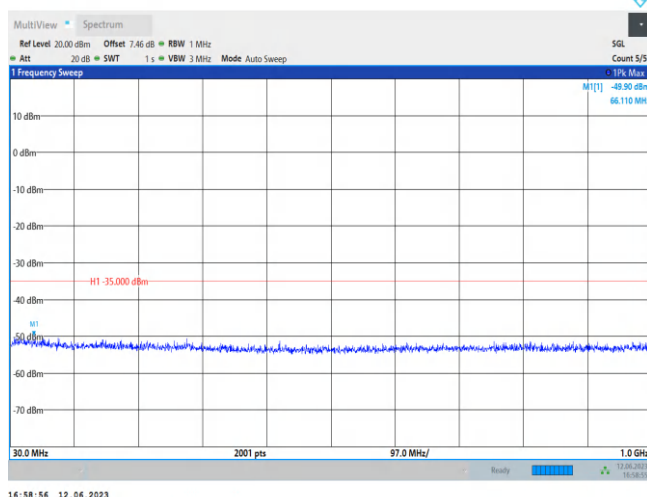
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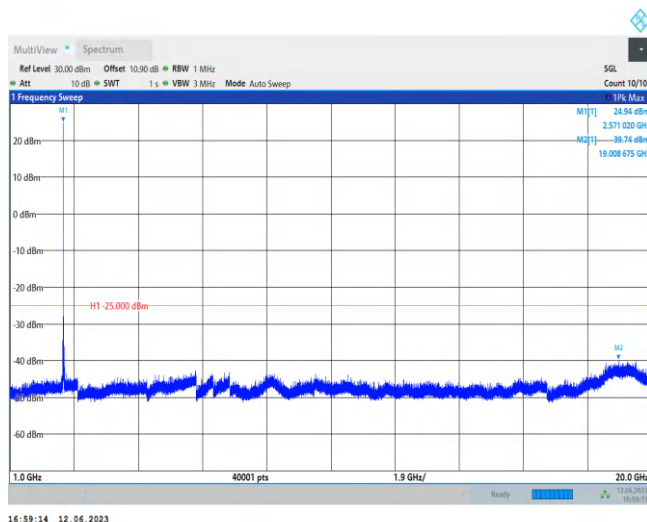
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



Band38-20MHz-QPSK-37850-1RB#0-Range4:1000~20000MHz



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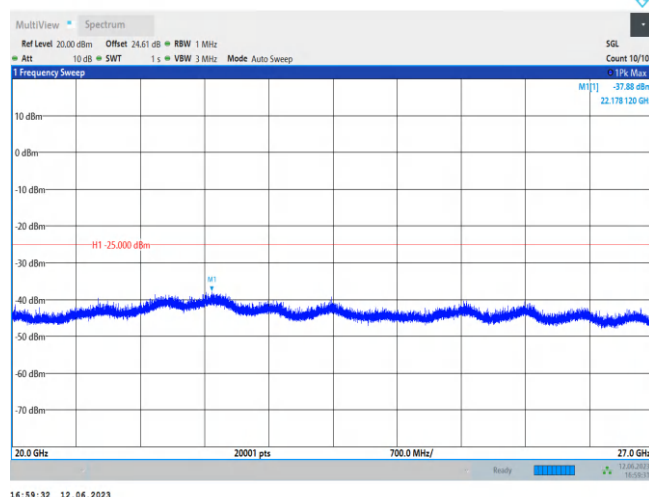
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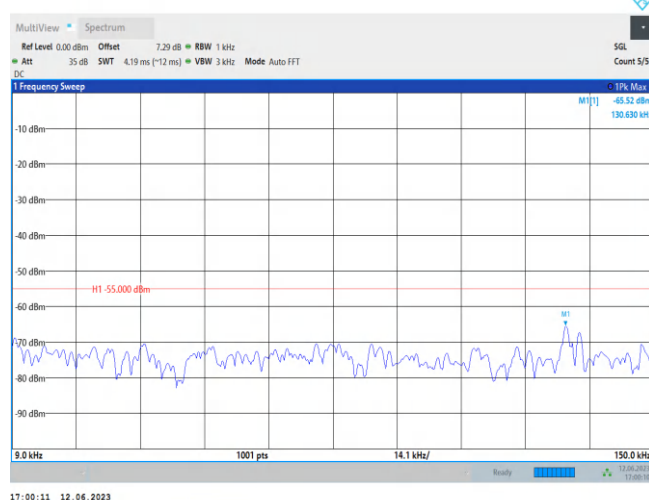
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range1:0.009~0.15MHz



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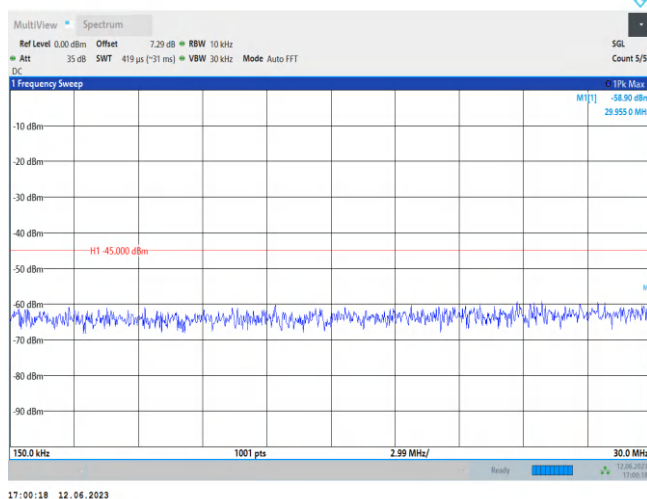
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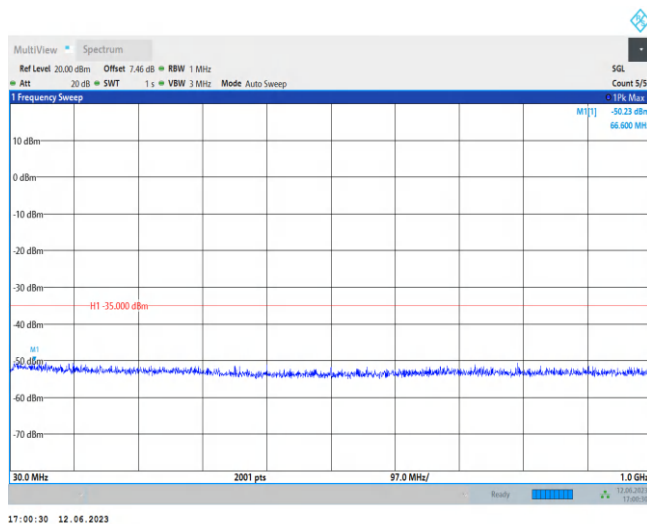
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



Band38-20MHz-QPSK-38000-1RB#0-Range3:30~1000MHz



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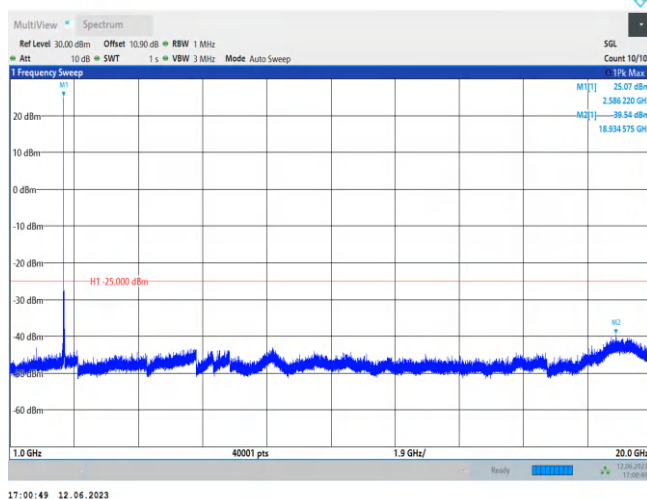
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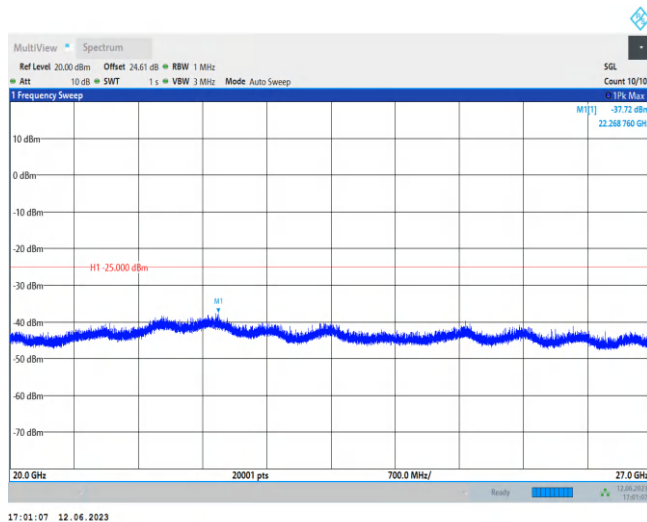
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range5:20000~27000MHz



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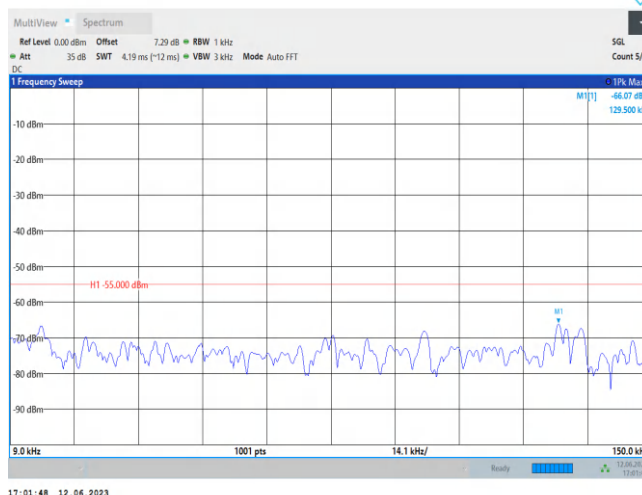
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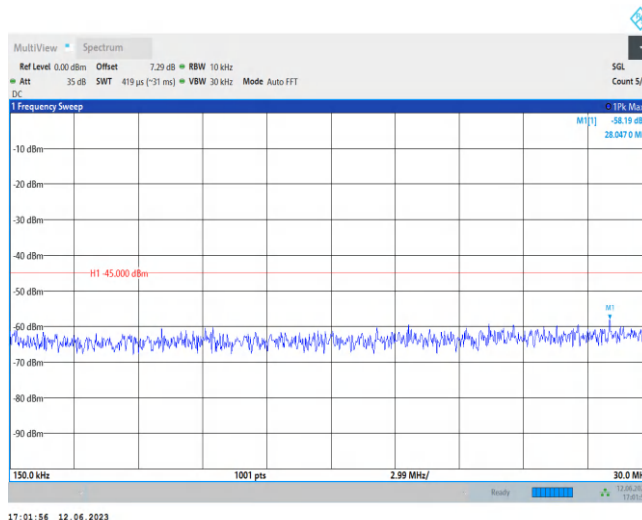
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



Band38-20MHz-QPSK-38150-1RB#0-Range2:0.15~30MHz



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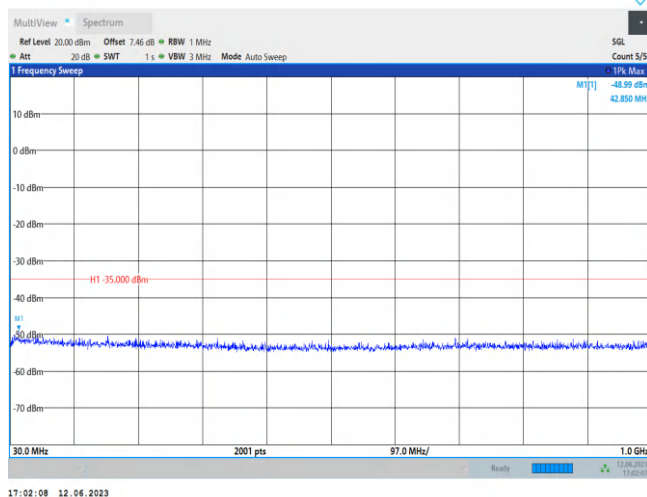
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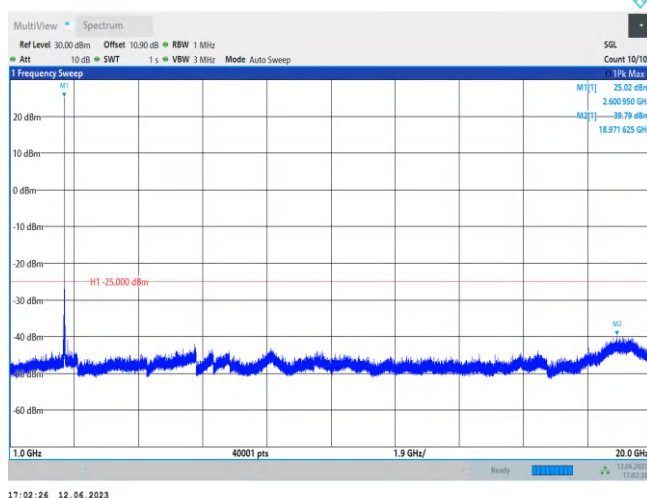
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz



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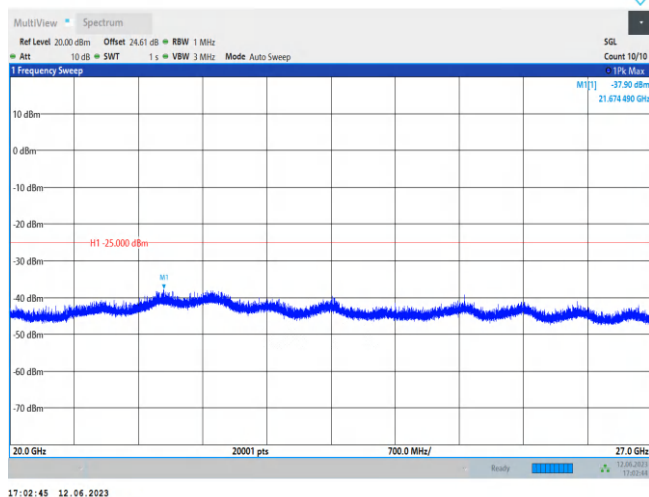
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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation(Worse)

Test Band = LTE Band38_ TM1_20MHz
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	40.88	-45.33	31.74	-67.97	-25.00	42.97	166	180	Horizontal
2	7713.2700	40.59	-43.01	36.69	-61.00	-25.00	36.00	154	326	Horizontal
3	10284.3600	35.01	-39.15	38.34	-61.06	-25.00	36.06	178	273	Horizontal
4	12855.4500	33.26	-36.99	39.06	-59.93	-25.00	34.93	189	54	Horizontal
5	15426.5400	32.37	-34.00	40.40	-56.48	-25.00	31.48	136	54	Horizontal
6	17997.6300	32.24	-34.58	46.79	-50.81	-25.00	25.81	259	218	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	40.92	-45.33	31.74	-67.93	-25.00	42.93	241	325	Vertical
2	7713.2700	40.41	-43.01	36.69	-61.18	-25.00	36.18	166	181	Vertical
3	10284.3600	35.67	-39.15	38.34	-60.40	-25.00	35.40	236	357	Vertical
4	12855.4500	33.38	-36.99	39.06	-59.81	-25.00	34.81	259	217	Vertical
5	15426.5400	32.65	-34.00	40.40	-56.20	-25.00	31.20	188	288	Vertical
6	17997.6300	32.04	-34.58	46.79	-51.01	-25.00	26.01	142	236	Vertical



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Test Band = LTE Band38_ TM1_20MHz
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3805.5	43.97	-45.94	28.91	-68.32	-25.00	43.32	159	326	Horizontal
2	5172.1800	41.41	-45.30	31.81	-67.34	-25.00	42.34	198	91	Horizontal
3	7758.2700	39.74	-42.65	36.70	-61.46	-25.00	36.46	175	164	Horizontal
4	10344.3600	35.35	-39.05	38.37	-60.59	-25.00	35.59	123	18	Horizontal
5	12930.4500	32.88	-37.18	39.08	-60.48	-25.00	35.48	263	326	Horizontal
6	15516.5400	31.68	-35.30	40.21	-58.67	-25.00	33.67	145	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4289	44.37	-45.57	29.79	-66.66	-25.00	41.66	126	0	Vertical
2	5172.1800	41.97	-45.30	31.81	-66.78	-25.00	41.78	259	126	Vertical
3	7758.2700	40.62	-42.65	36.70	-60.58	-25.00	35.58	148	2	Vertical
4	10344.3600	36.27	-39.05	38.37	-59.67	-25.00	34.67	175	289	Vertical
5	12930.4500	33.69	-37.18	39.08	-59.67	-25.00	34.67	163	126	Vertical
6	15516.5400	32.29	-35.30	40.21	-58.06	-25.00	33.06	222	252	Vertical



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Test Band = LTE Band38_ TM1_20MHz
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4414.5	44.37	-45.80	30.09	-66.60	-25.00	41.60	231	360	Horizontal
2	5202.1800	42.40	-45.28	31.89	-66.25	-25.00	41.25	165	18	Horizontal
3	7803.2700	39.79	-42.33	36.72	-61.08	-25.00	36.08	148	359	Horizontal
4	10404.3600	34.98	-39.00	38.40	-60.88	-25.00	35.88	196	222	Horizontal
5	13005.4500	33.89	-37.31	39.11	-59.57	-25.00	34.57	128	360	Horizontal
6	15606.5400	31.64	-34.87	40.03	-58.47	-25.00	33.47	185	295	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5202.1800	41.40	-45.28	31.89	-67.25	-25.00	42.25	246	307	Vertical
2	5947	44.13	-44.90	32.69	-63.34	-25.00	38.34	196	252	Vertical
3	7803.2700	41.10	-42.33	36.72	-59.77	-25.00	34.77	152	342	Vertical
4	10404.3600	34.55	-39.00	38.40	-61.31	-25.00	36.31	136	356	Vertical
5	13005.4500	32.92	-37.31	39.11	-60.54	-25.00	35.54	258	53	Vertical
6	15606.5400	32.37	-34.87	40.03	-57.74	-25.00	32.74	192	307	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	0.10	0.000039	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	2.40	0.000925	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	2.40	0.000925	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	4.70	0.001811	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	1.70	0.000655	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	3.00	0.001156	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	4.00	0.001541	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	1.10	0.000424	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	4.50	0.001734	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	1.50	0.000578	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	3.90	0.001503	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	2.80	0.001079	PASS

---End of Attachment---



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