Appendix B

E-UTRA Band 38

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.22	21.32	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.24	21.34	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.14	21.24	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.18	20.28	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.24	20.34	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.23	20.33	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.19	20.29	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.21	21.31	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.09	21.19	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.12	21.22	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.14	20.24	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.2	20.30	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.12	20.22	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.15	20.25	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.09	21.19	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.02	21.12	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.13	21.23	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.12	20.22	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.11	20.21	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.18	20.28	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.11	20.21	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.37	20.47	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.39	20.49	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.5	20.60	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.27	19.37	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.23	19.33	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.25	19.35	33.00	PASS

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Band38	5MHz	16QAM	37775	25RB#0	20.16	19.26	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.46	20.56	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.38	20.48	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.36	20.46	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.16	19.26	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.17	19.27	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.23	19.33	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.15	19.25	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.38	20.48	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.35	20.45	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.31	20.41	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	20.21	19.31	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.14	19.24	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.13	19.23	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.07	19.17	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.35	21.45	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.43	21.53	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.25	21.35	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.31	20.41	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.34	20.44	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.32	20.42	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.33	20.43	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.37	21.47	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.3	21.40	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.25	21.35	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.35	20.45	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.3	20.40	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.27	20.37	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.3	20.40	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.36	21.46	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.19	21.29	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.25	21.35	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.21	20.31	33.00	PASS

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Band38	10MHz	QPSK	38200	25RB#12	21.27	20.37	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.26	20.36	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.25	20.35	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	20.5	19.60	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	20.59	19.69	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	20.66	19.76	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#12	19.45	18.55	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#0	19.44	18.54	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#25	19.44	18.54	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	19.43	18.53	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	20.61	19.71	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	20.48	19.58	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	20.55	19.65	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#0	19.34	18.44	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#25	19.36	18.46	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#12	19.4	18.50	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	19.34	18.44	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	20.56	19.66	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	20.56	19.66	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.41	19.51	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#0	19.33	18.43	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#25	19.35	18.45	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#12	19.36	18.46	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	19.31	18.41	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.59	20.69	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.67	20.77	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.5	20.60	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.26	19.36	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.29	19.39	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.27	19.37	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.36	19.46	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.5	20.60	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.64	20.74	33.00	PASS

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Band38	10MHz	16QAM	38000	1RB#0	21.54	20.64	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.29	19.39	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.23	19.33	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.22	19.32	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.33	19.43	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.49	20.59	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.45	20.55	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.62	20.72	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.21	19.31	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.21	19.31	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.17	19.27	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.28	19.38	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.22	21.32	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.27	21.37	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.14	21.24	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	21.28	20.38	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	21.25	20.35	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	21.26	20.36	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.24	20.34	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.18	21.28	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.24	21.34	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.09	21.19	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	21.22	20.32	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	21.29	20.39	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	21.24	20.34	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.22	20.32	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.09	21.19	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.16	21.26	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.21	21.31	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	21.14	20.24	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	21.19	20.29	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	21.21	20.31	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.17	20.27	33.00	PASS

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Band38	15MHz	64QAM	37825	1RB#38	20.52	19.62	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	20.38	19.48	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	20.46	19.56	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#39	19.21	18.31	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#0	19.31	18.41	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#18	19.34	18.44	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	19.35	18.45	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	20.35	19.45	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	20.54	19.64	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	20.44	19.54	33.00	PASS
Band38	15MHz	64QAM	38000	36RB#39	19.23	18.33	33.00	PASS
Band38	15MHz	64QAM	38000	36RB#0	19.2	18.30	33.00	PASS
Band38	15MHz	64QAM	38000	36RB#18	19.25	18.35	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	19.29	18.39	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	20.36	19.46	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	20.44	19.54	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	20.27	19.37	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#39	19.19	18.29	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#0	19.16	18.26	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#18	19.22	18.32	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	19.23	18.33	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.49	20.59	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.53	20.63	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.4	20.50	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	20.23	19.33	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#0	20.29	19.39	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	20.23	19.33	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.24	19.34	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.36	20.46	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.49	20.59	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.45	20.55	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	20.23	19.33	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	20.28	19.38	33.00	PASS

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Band38	15MHz	16QAM	38000	36RB#39	20.2	19.30	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.27	19.37	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.4	20.50	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.52	20.62	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.37	20.47	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	20.18	19.28	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	20.2	19.30	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	20.13	19.23	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.19	19.29	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.05	21.15	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	21.93	21.03	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.29	21.39	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.24	20.34	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.29	20.39	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.22	20.32	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.25	20.35	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.31	21.41	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.04	21.14	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	21.9	21.00	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.27	20.37	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.16	20.26	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.23	20.33	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.24	20.34	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	21.87	20.97	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.01	21.11	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.26	21.36	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.24	20.34	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.22	20.32	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.14	20.24	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.19	20.29	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	20.31	19.41	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	20.18	19.28	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	20.55	19.65	33.00	PASS

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Band38	20MHz	64QAM	37850	50RB#0	19.32	18.42	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#25	19.34	18.44	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#50	19.44	18.54	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	19.31	18.41	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	20.54	19.64	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	20.16	19.26	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	20.28	19.38	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#0	19.27	18.37	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#50	19.35	18.45	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#25	19.31	18.41	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	19.29	18.39	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	20.48	19.58	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	20.24	19.34	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	20.08	19.18	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#0	19.23	18.33	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#25	19.32	18.42	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#50	19.29	18.39	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	19.26	18.36	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.55	20.65	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.21	20.31	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.31	20.41	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.25	19.35	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.29	19.39	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.33	19.43	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.3	19.40	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.56	20.66	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.17	20.27	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.28	20.38	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.28	19.38	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.22	19.32	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.23	19.33	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.29	19.39	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.15	20.25	33.00	PASS

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Band38	20MHz	16QAM	38150	1RB#49	21.53	20.63	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.26	20.36	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.25	19.35	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.26	19.36	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.17	19.27	33.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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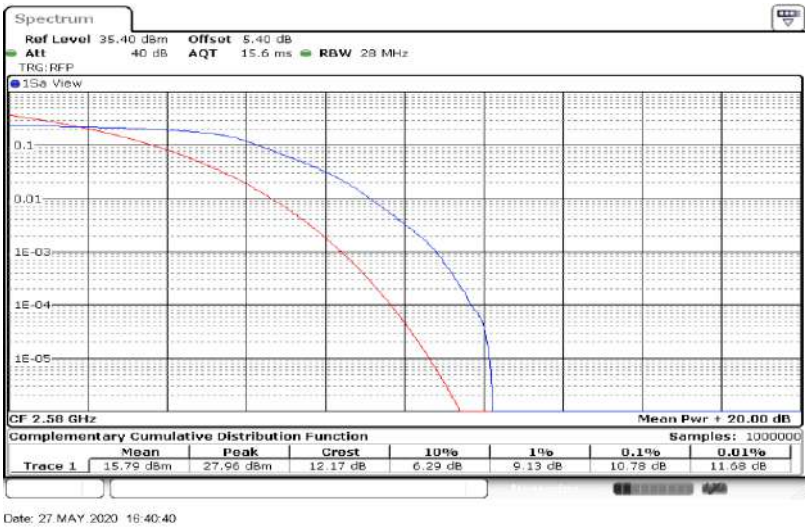
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	10.78	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.01	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.87	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	6.49	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	9.94	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	10.00	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.62	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.86	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.74	13	PASS

2.2. Test Plots

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



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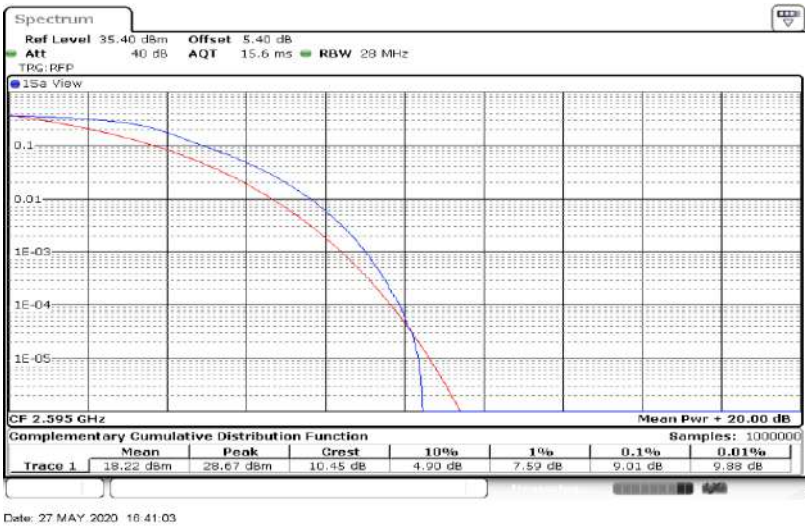
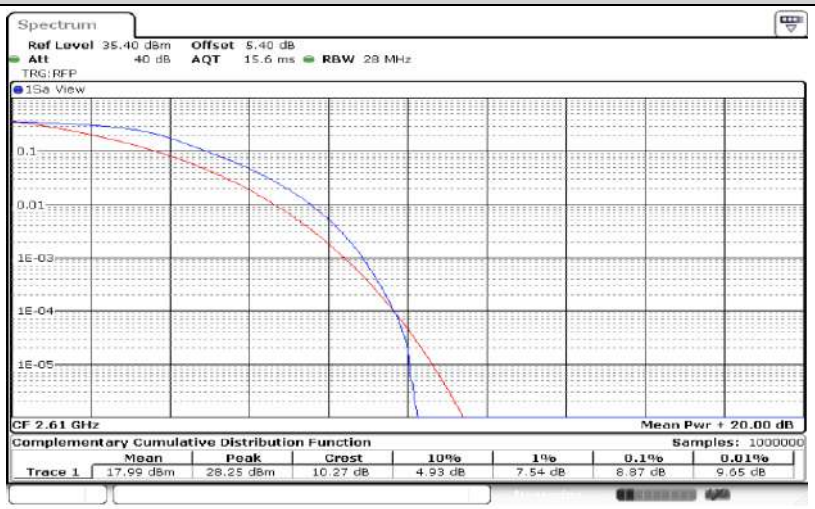
Band38-20MHz-QPSK-38000-100RB#0



Date: 27.MAY.2020 16:41:03

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



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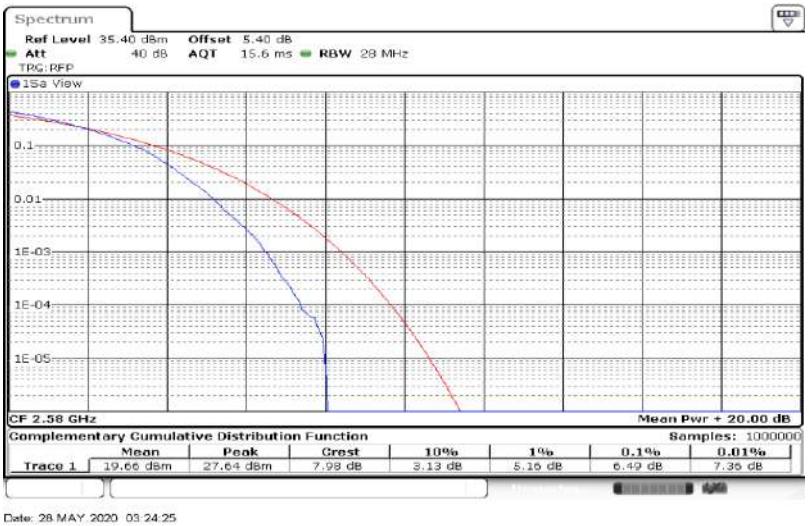
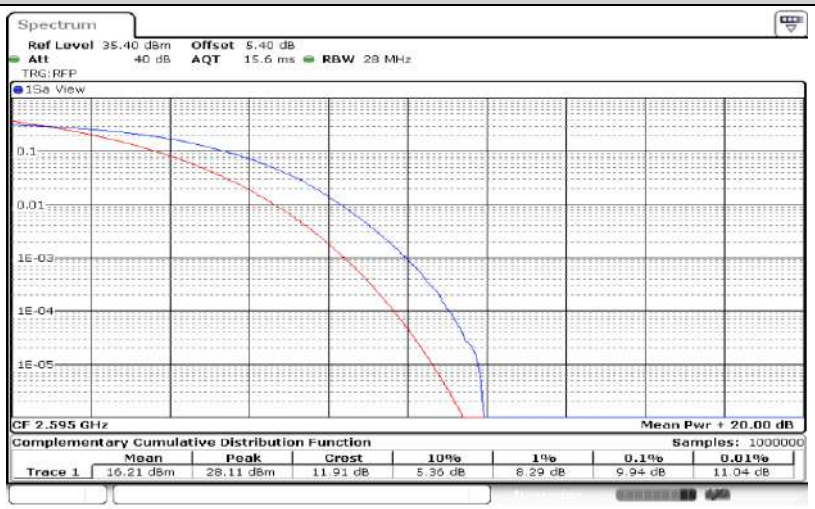
Band38-20MHz-64QAM-37850-100RB#0



Date: 28 MAY 2020 03:24:25

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



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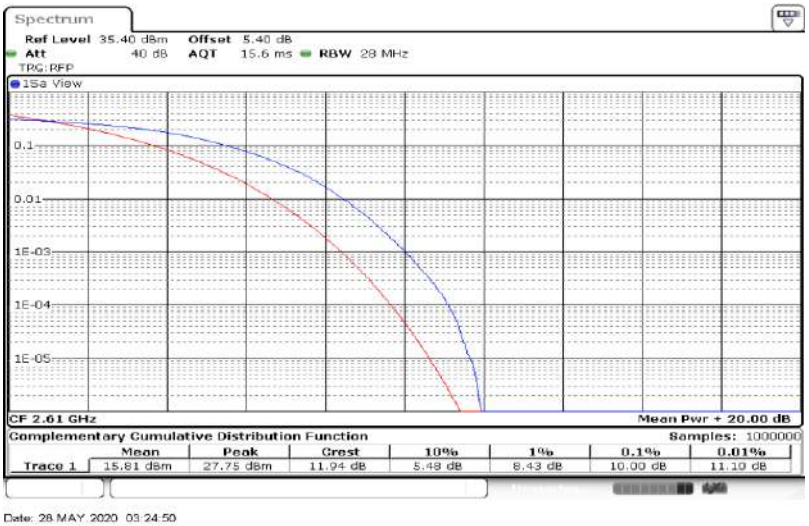
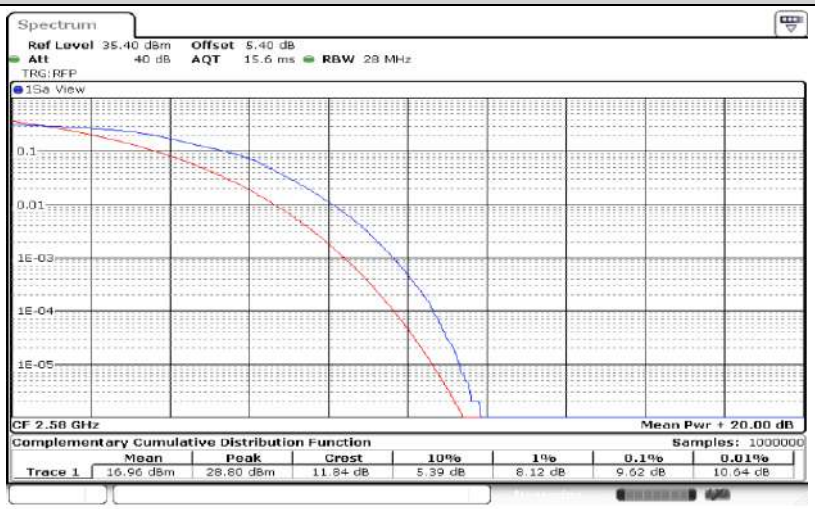


Date: 28.MAY.2020 03:24:50

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



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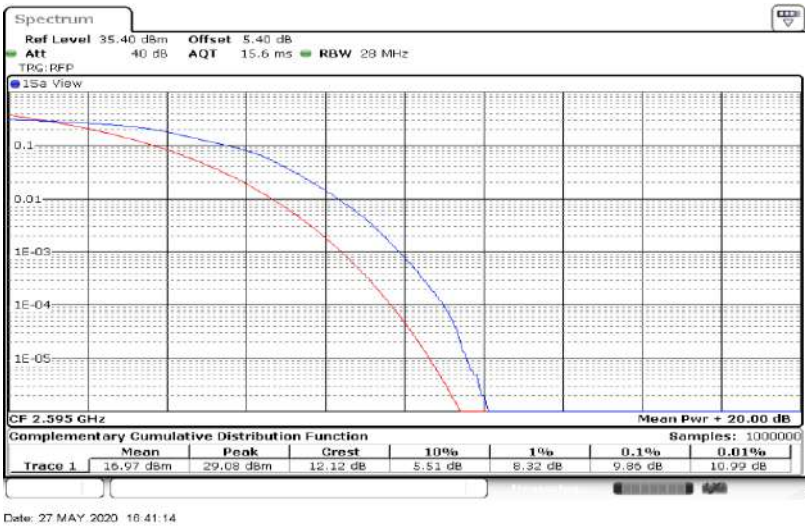
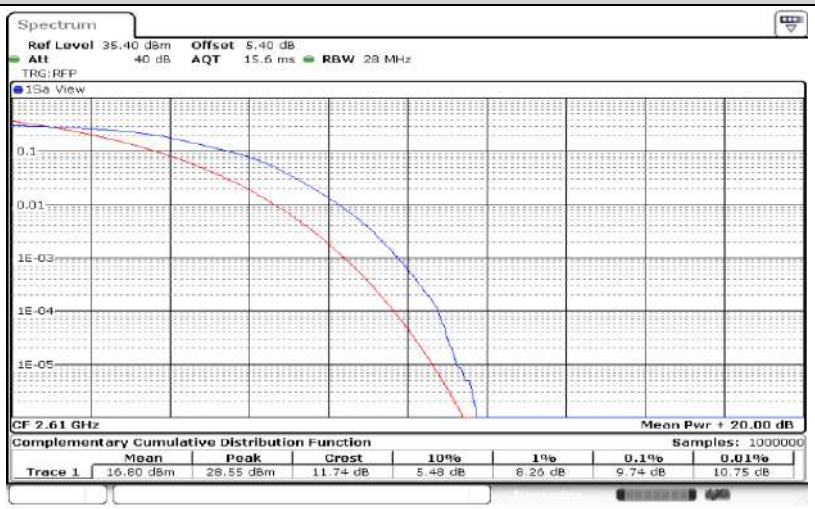


Date: 27.MAY.2020 16:41:14

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



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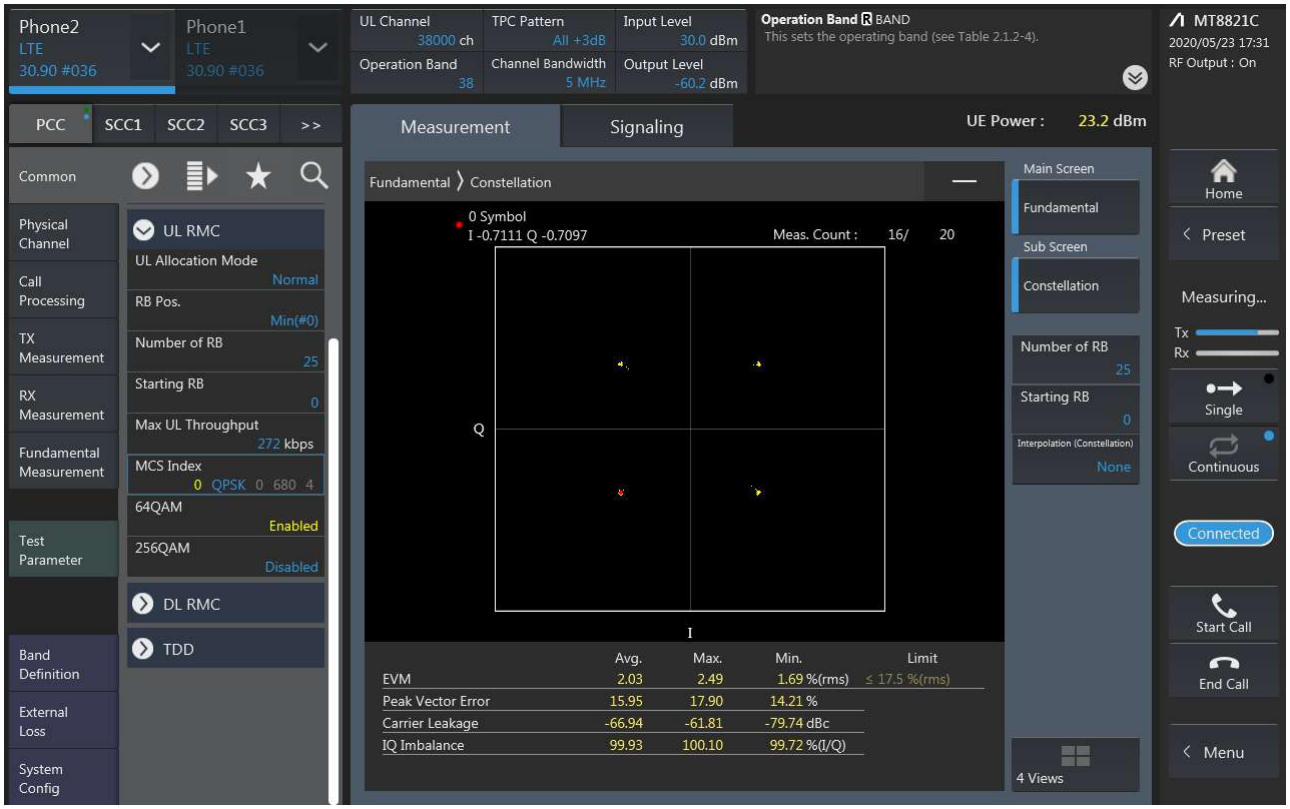
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



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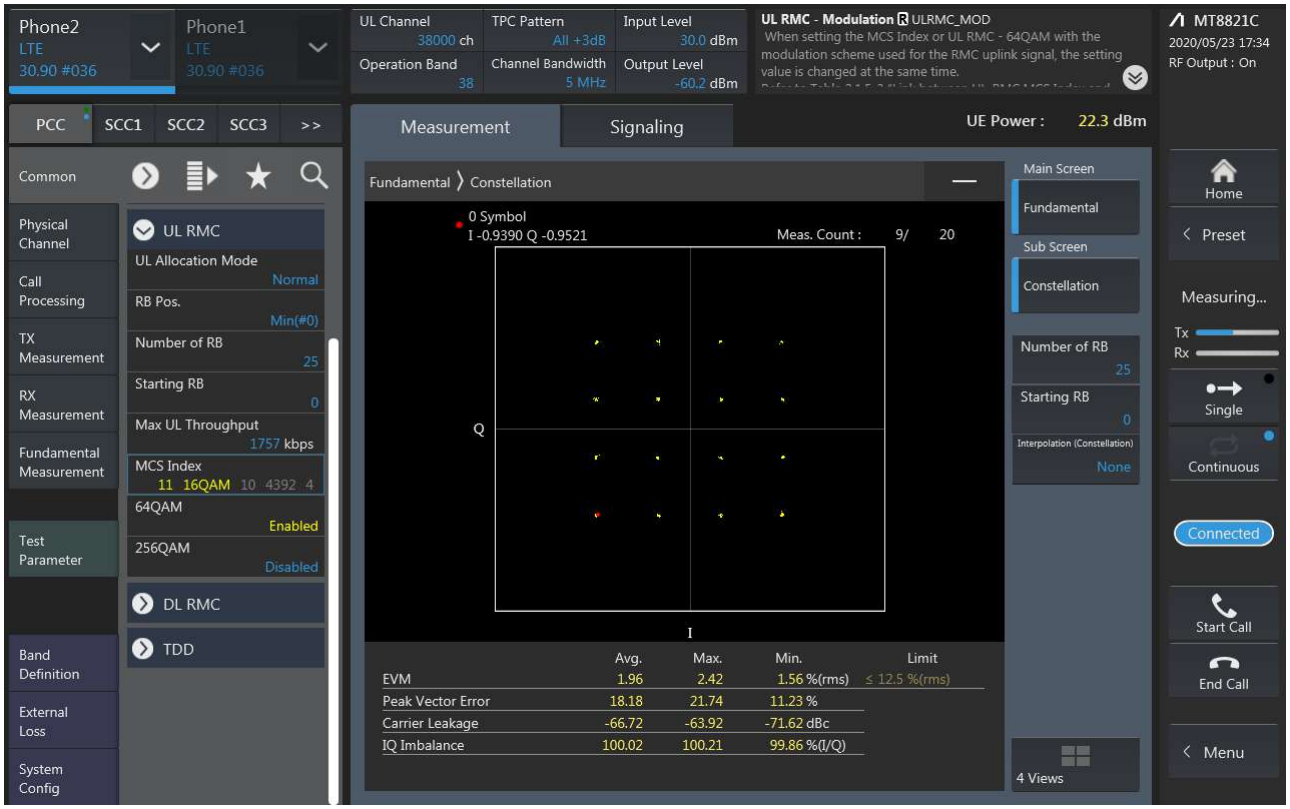
3.2. Test Mode = LTE /TM2 20MHz

3.2.1.Test Channel = MCH



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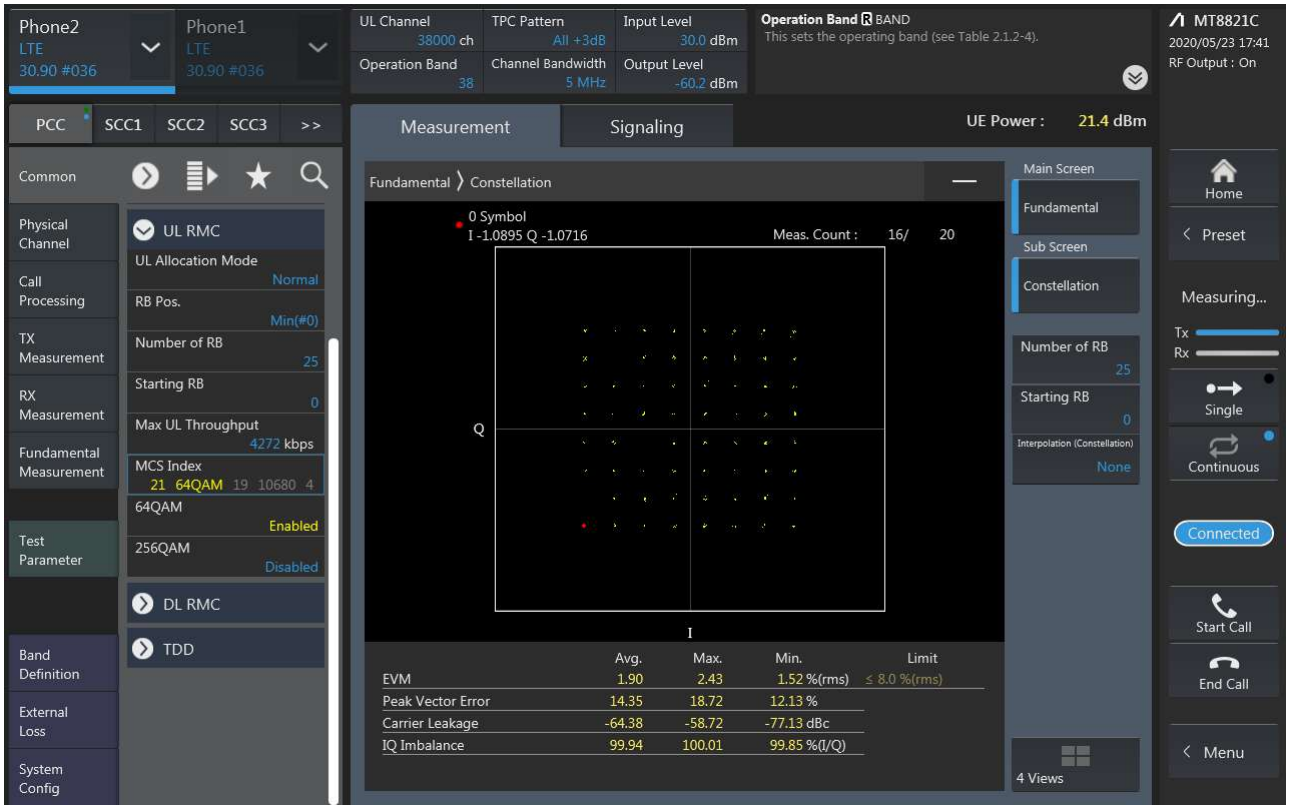
3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.466	4.990	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.466	4.860	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.466	4.870	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.476	4.920	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.476	4.950	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.466	4.900	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.486	4.850	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.486	4.860	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.486	4.850	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.911	9.700	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.640	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	9.680	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.931	9.540	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.931	9.660	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.931	9.540	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.931	9.560	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.931	9.640	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.891	9.520	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.487	15.750	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.487	15.660	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.457	15.360	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.427	14.610	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.427	14.670	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.427	14.640	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.457	15.150	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.457	15.210	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.457	14.820	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.942	19.960	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.942	19.680	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.902	19.760	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.902	19.640	PASS

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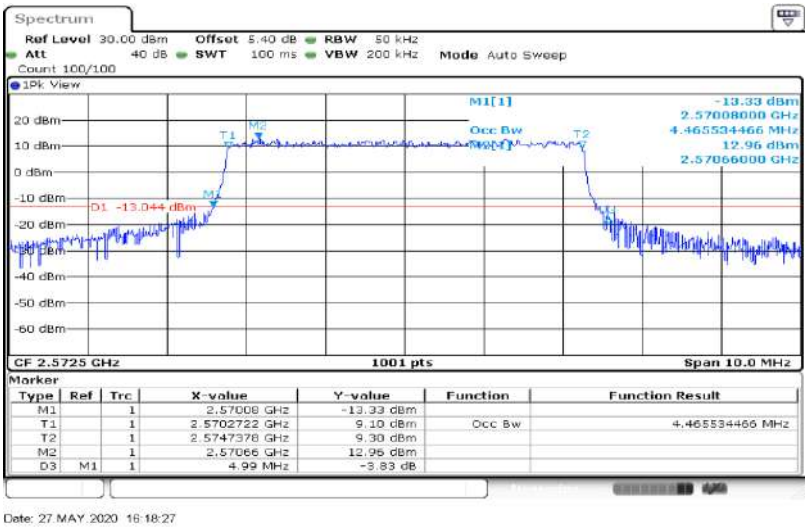
Band38	20MHz	64QAM	38000	100RB#0	17.942	19.640	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.862	19.600	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.902	20.040	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.902	19.920	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.862	19.280	PASS

4.2. Test Plots

Band38-5MHz-QPSK-37775-25RB#0-4.466



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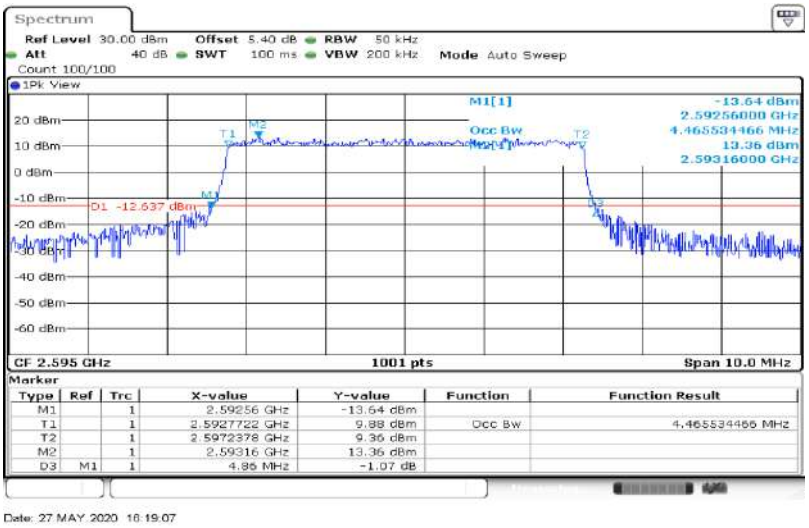

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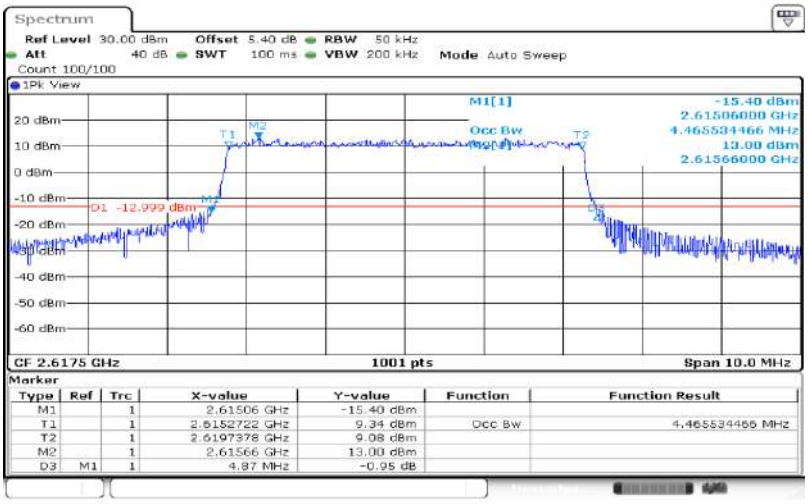
Band38-5MHz-QPSK-38225-25RB#0-4.466



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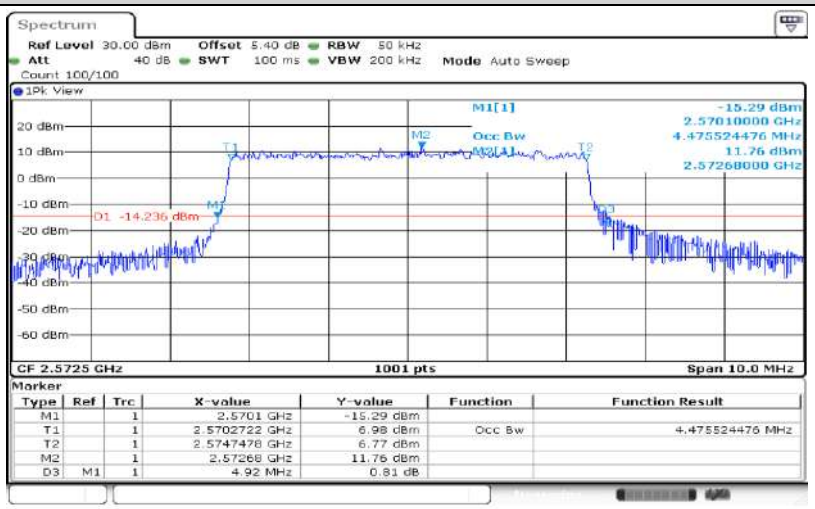
Band38-5MHz-64QAM-37775-25RB#0-4.476



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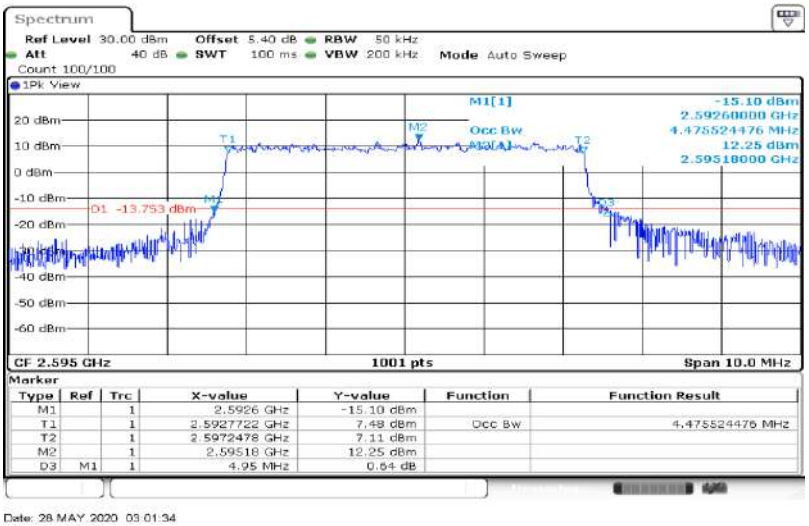

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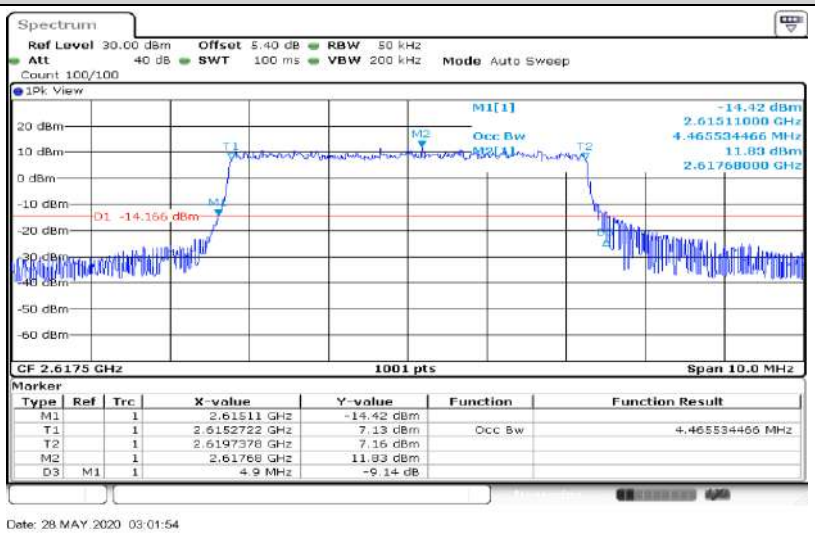

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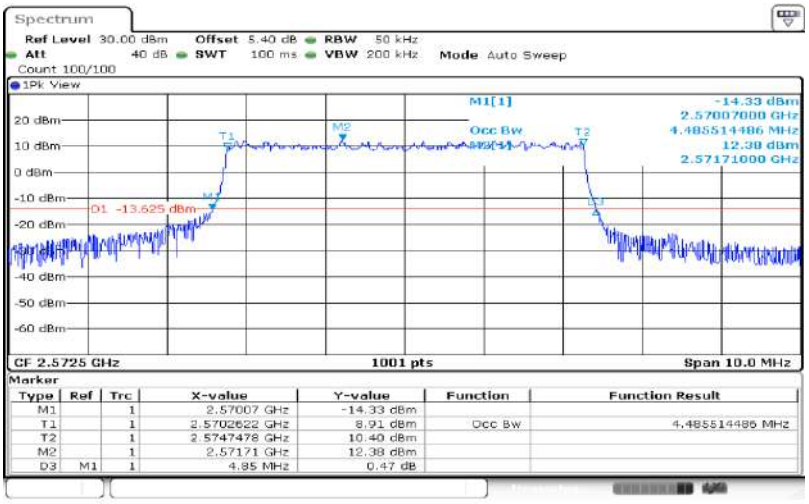
Band38-5MHz-16QAM-37775-25RB#0-4.486



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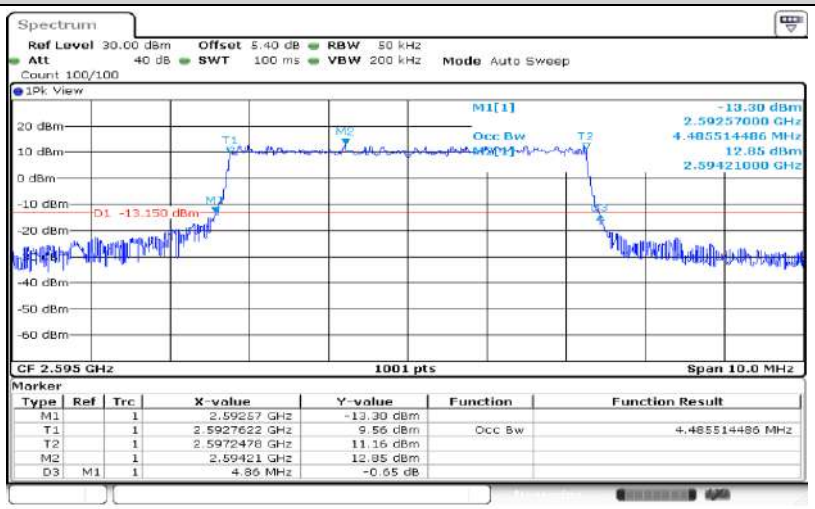

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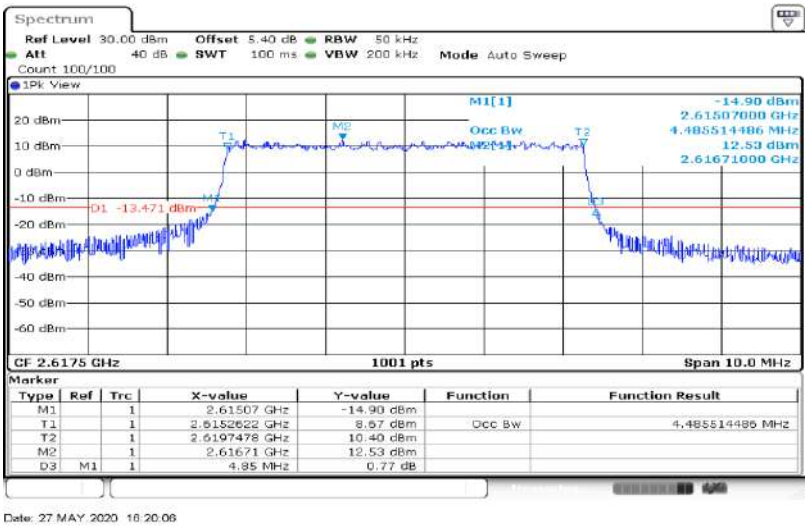
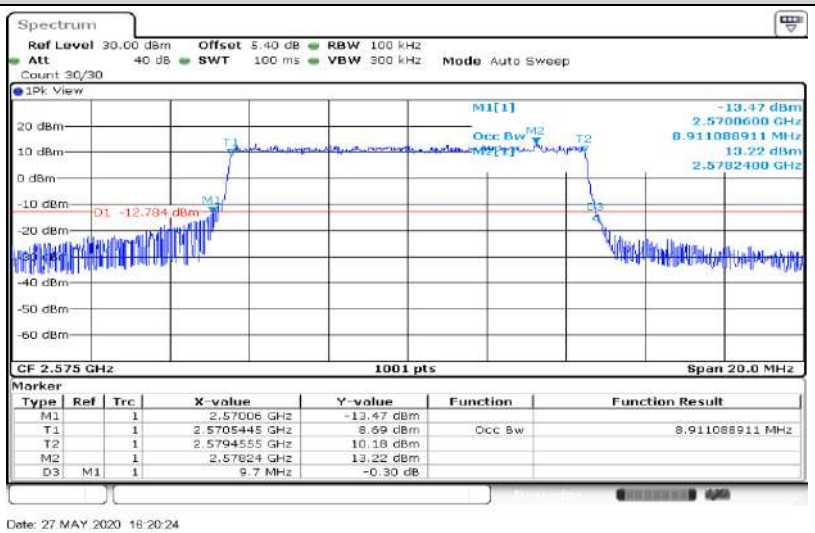


Band38-10MHz-QPSK-37800-50RB#0-8.911



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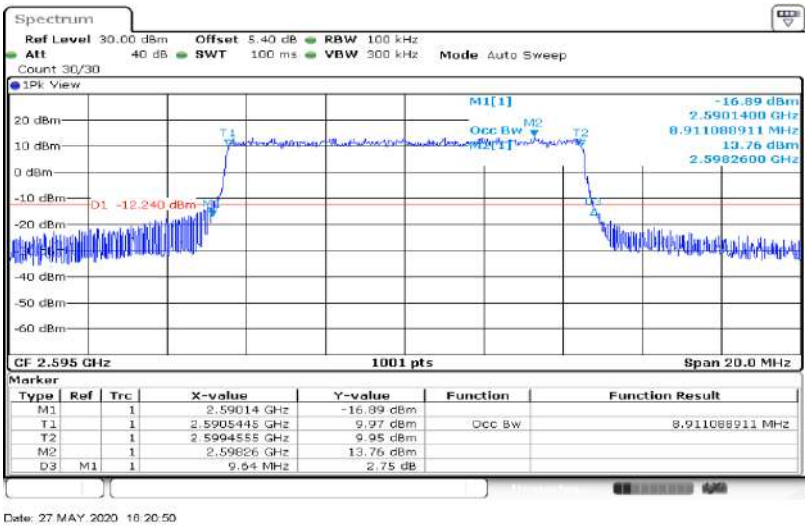
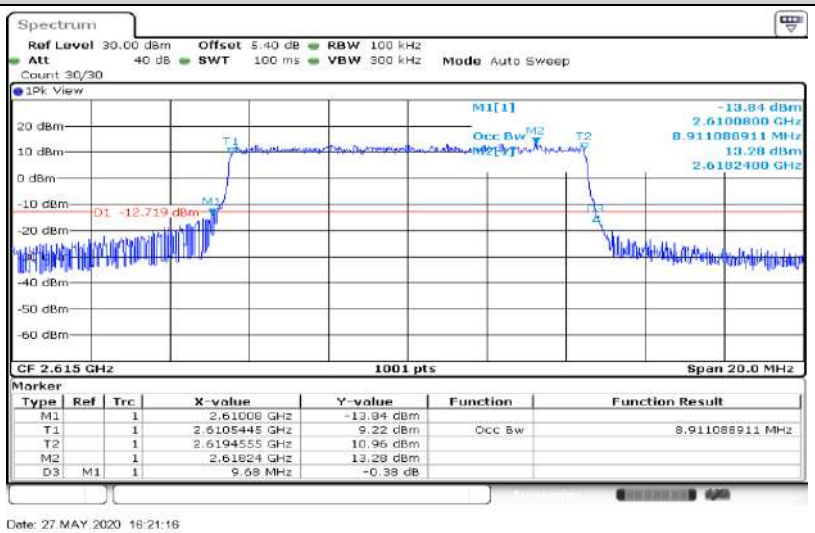
Band38-10MHz-QPSK-38000-50RB#0-8.911



Band38-10MHz-QPSK-38200-50RB#0-8.911



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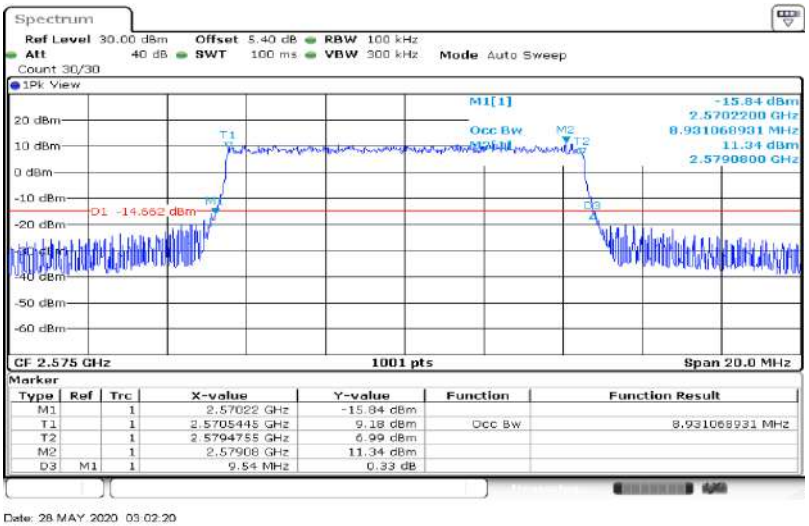
Band38-10MHz-64QAM-37800-50RB#0-8.931



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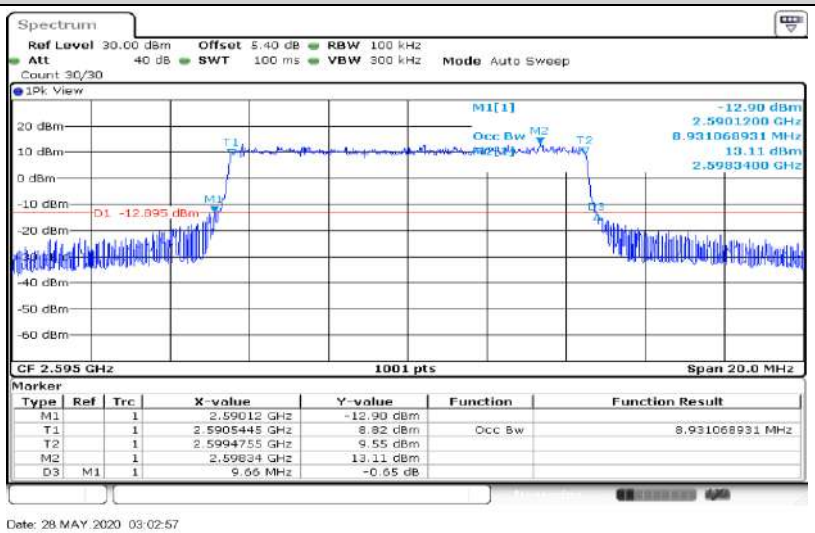

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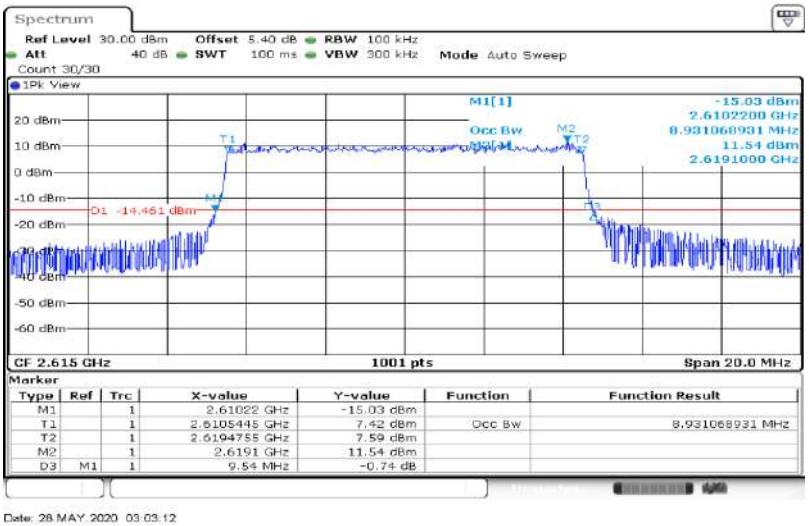
Band38-10MHz-64QAM-38200-50RB#0-8.931



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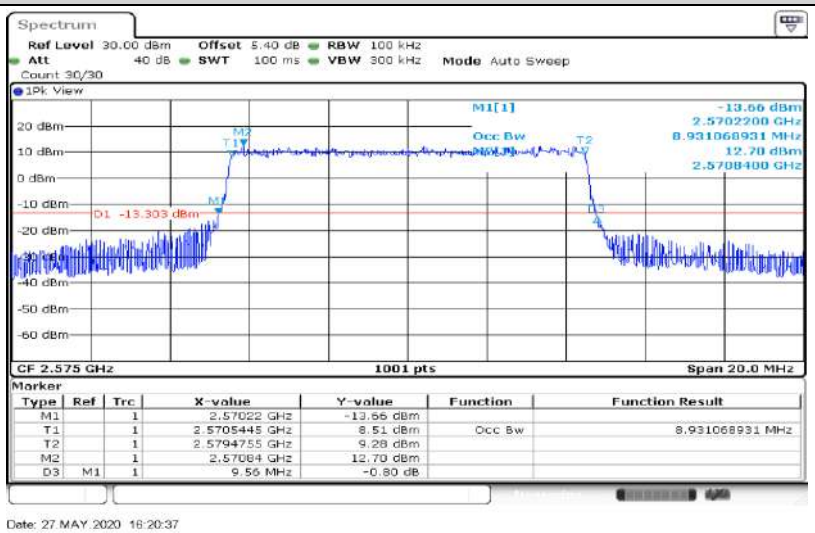

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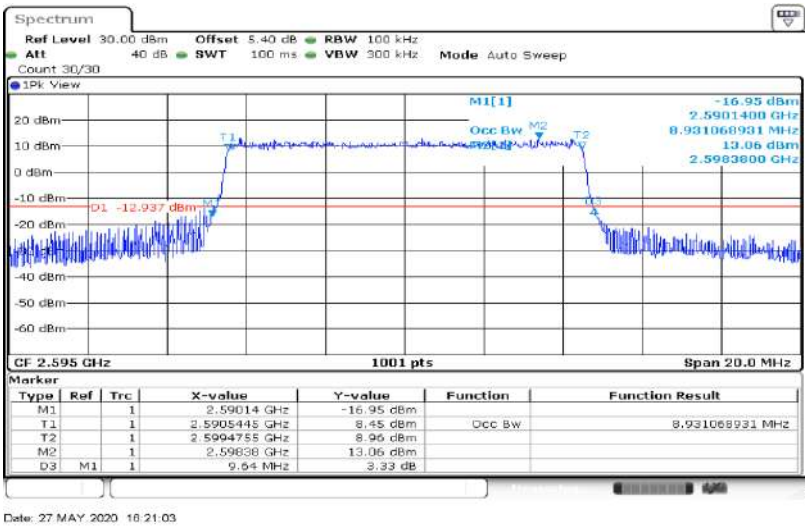
Band38-10MHz-16QAM-38000-50RB#0-8.931



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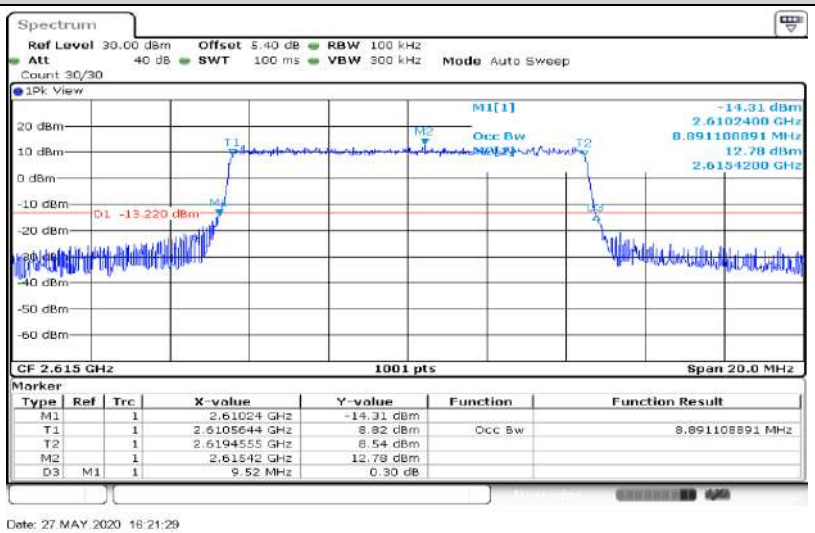

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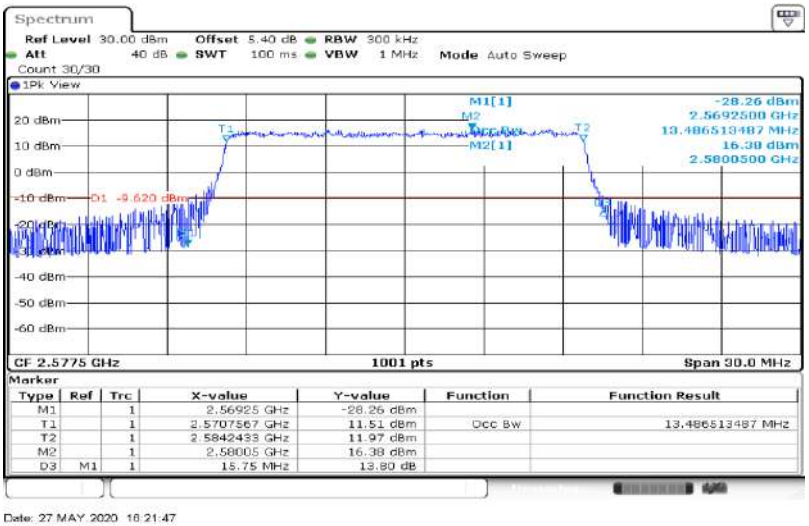
Band38-15MHz-QPSK-37825-75RB#0-13.487



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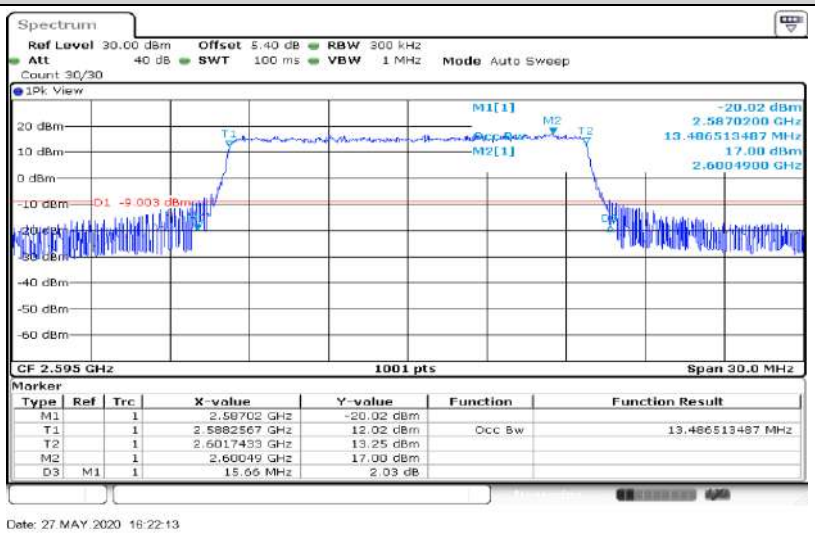

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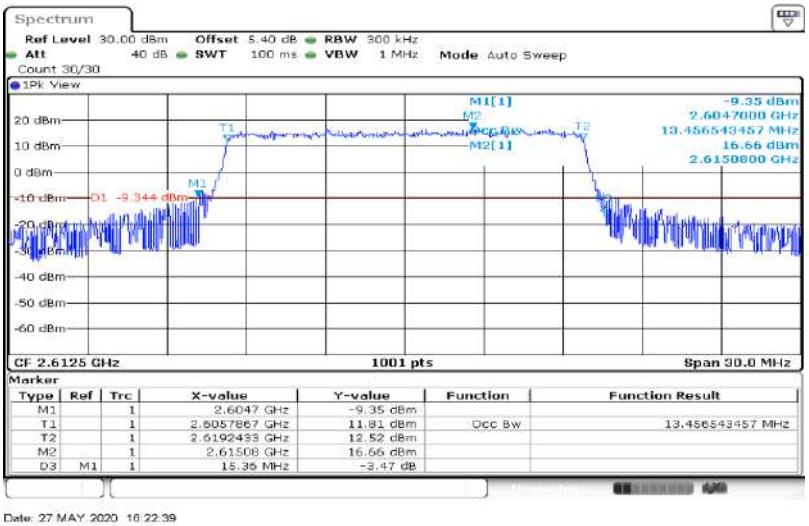
Band38-15MHz-QPSK-38175-75RB#0-13.457



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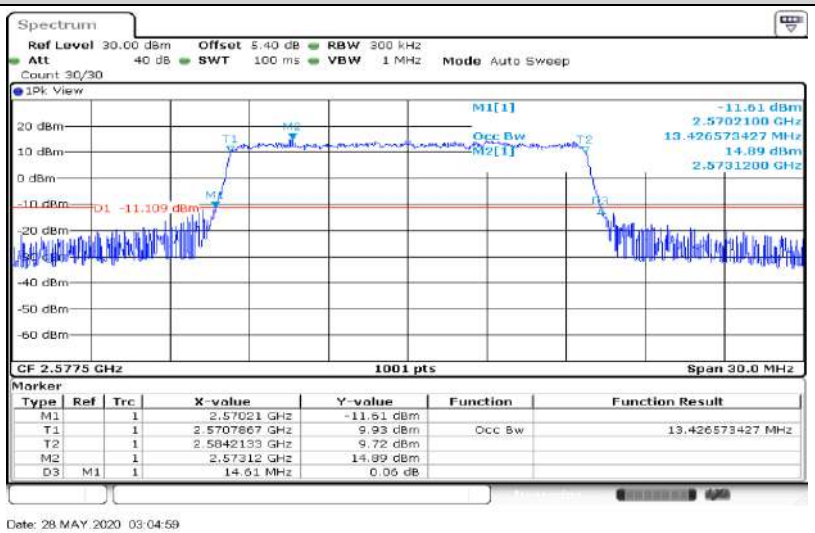

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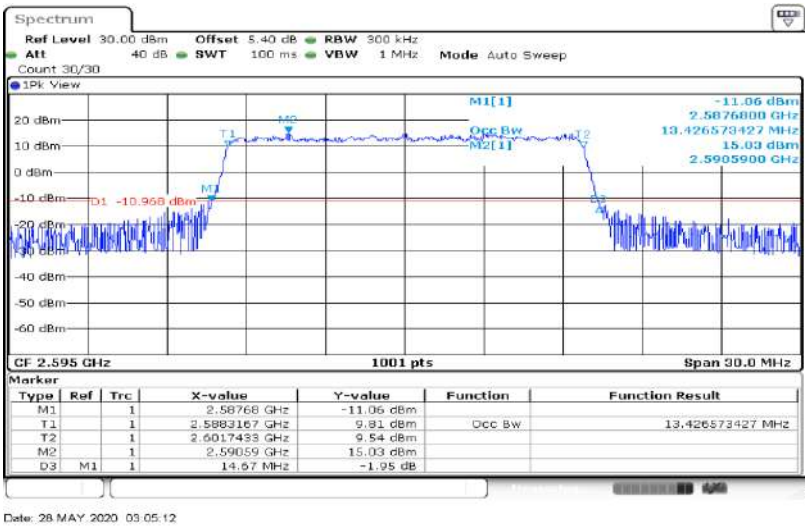
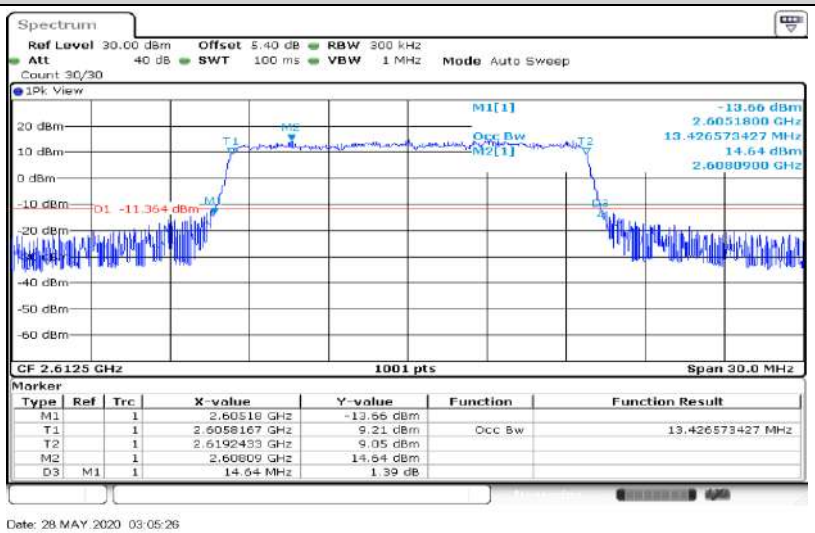
Band38-15MHz-64QAM-38000-75RB#0-13.427



Band38-15MHz-64QAM-38175-75RB#0-13.427



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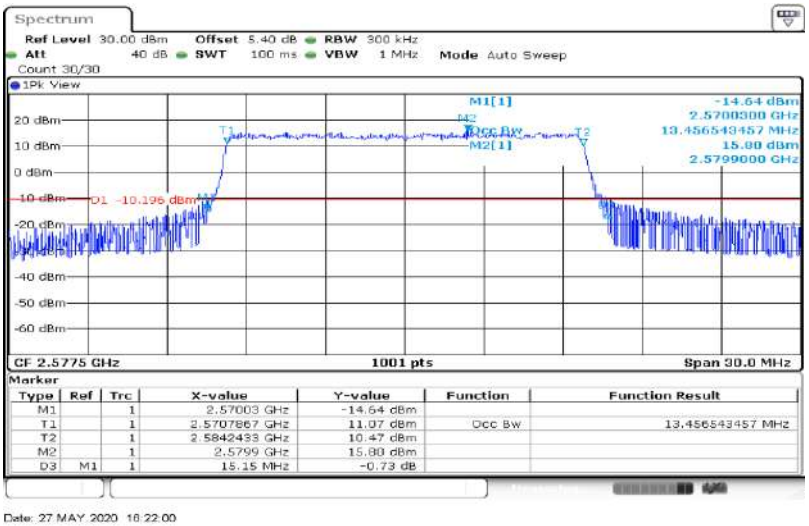

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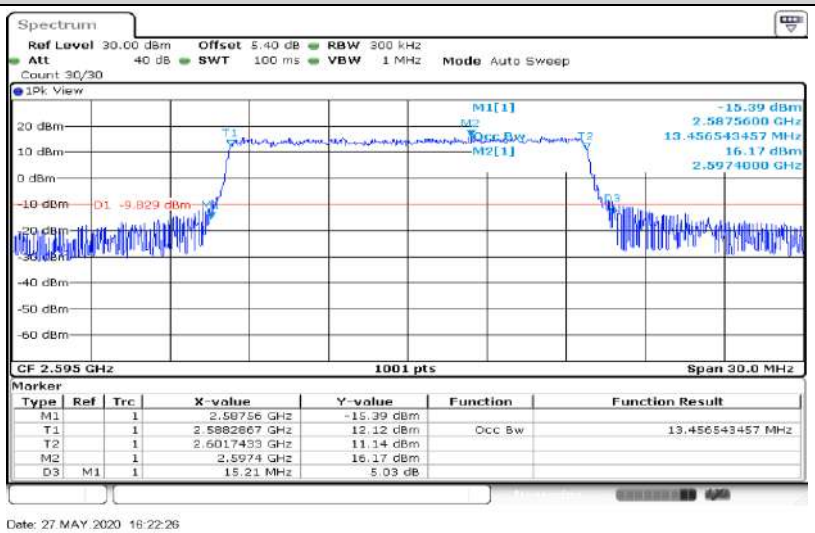

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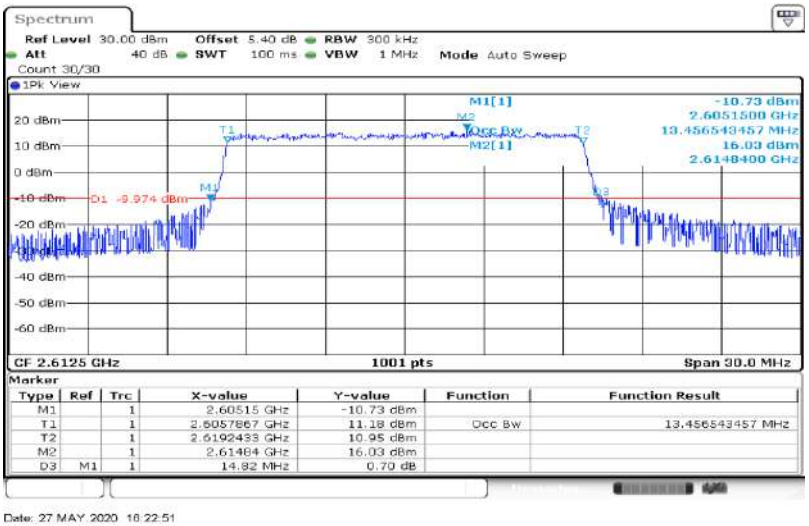
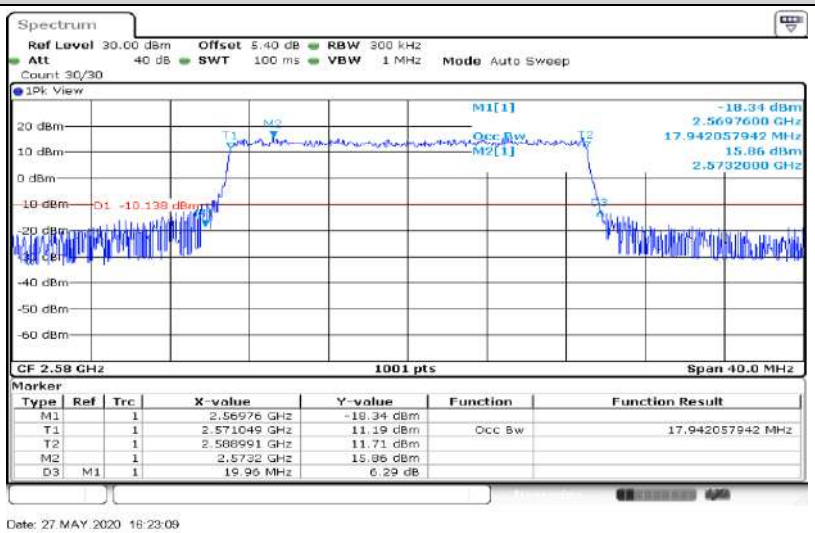


Band38-20MHz-QPSK-37850-100RB#0-17.942



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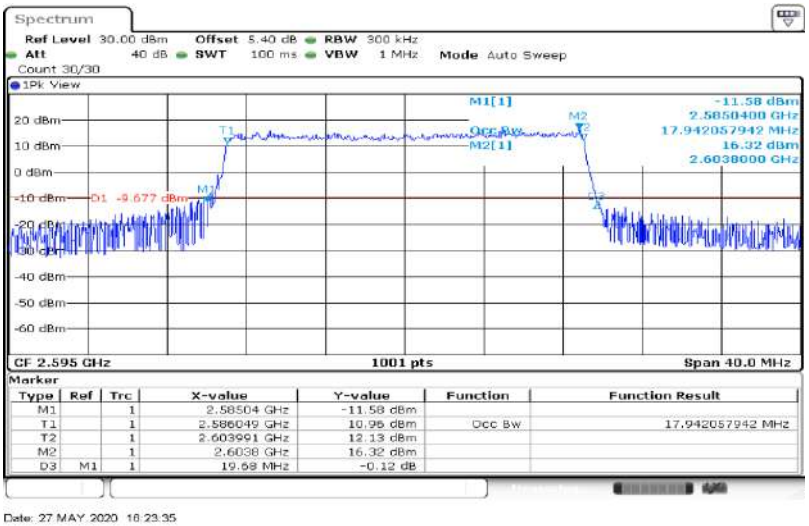

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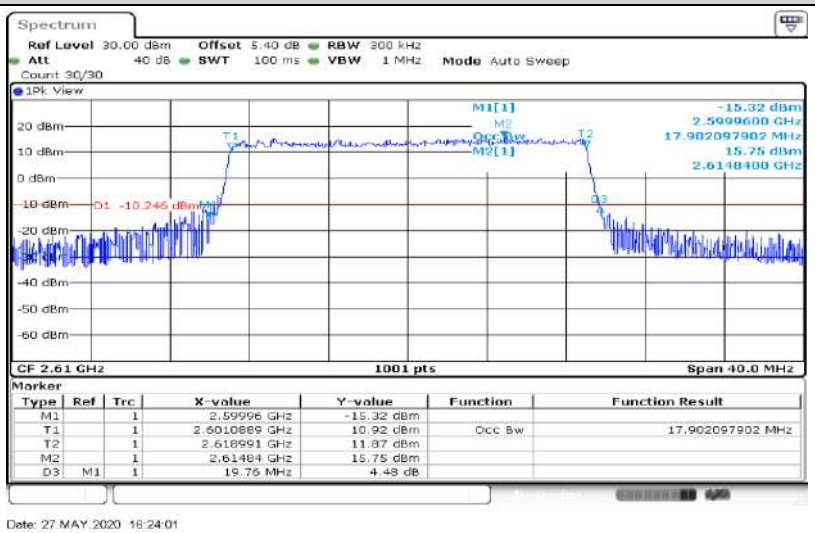

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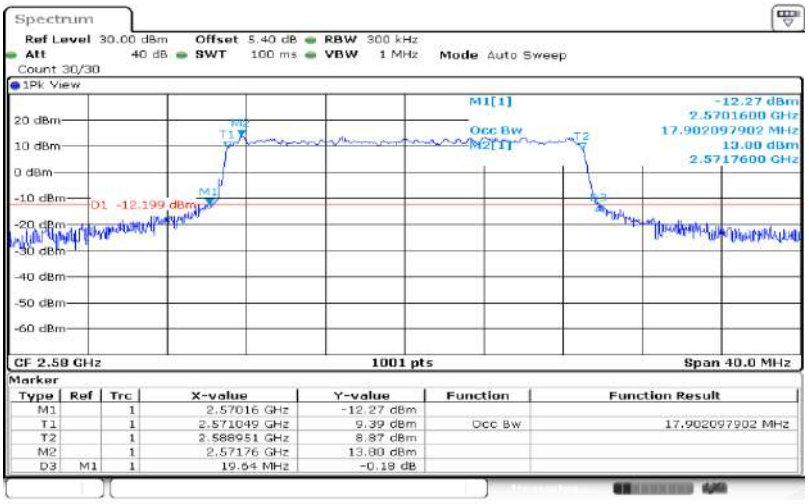

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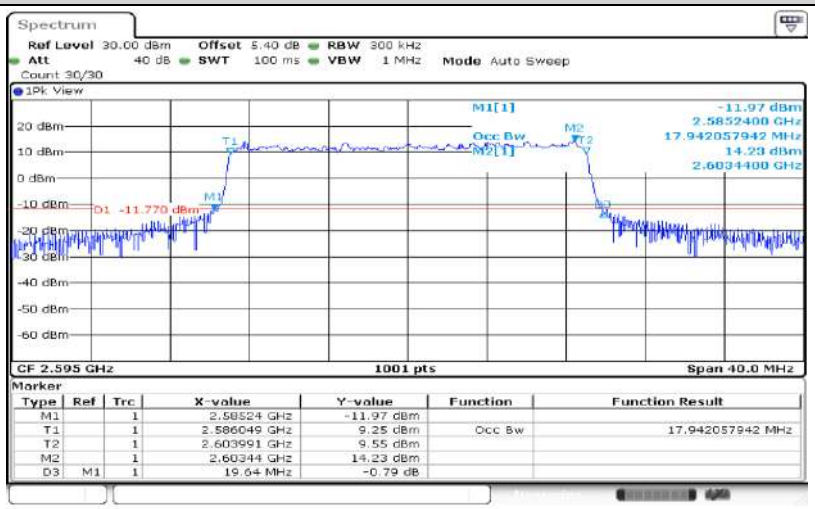

Date: 28.MAY.2020 03:06:35

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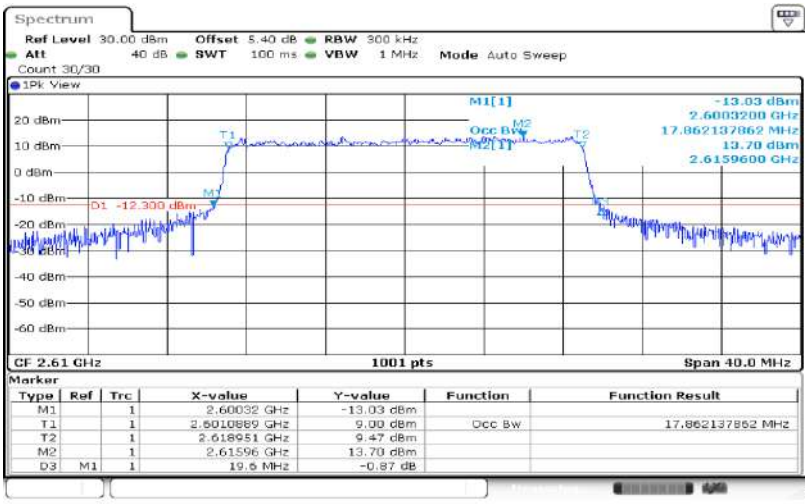
Band38-20MHz-64QAM-38150-100RB#0-17.862



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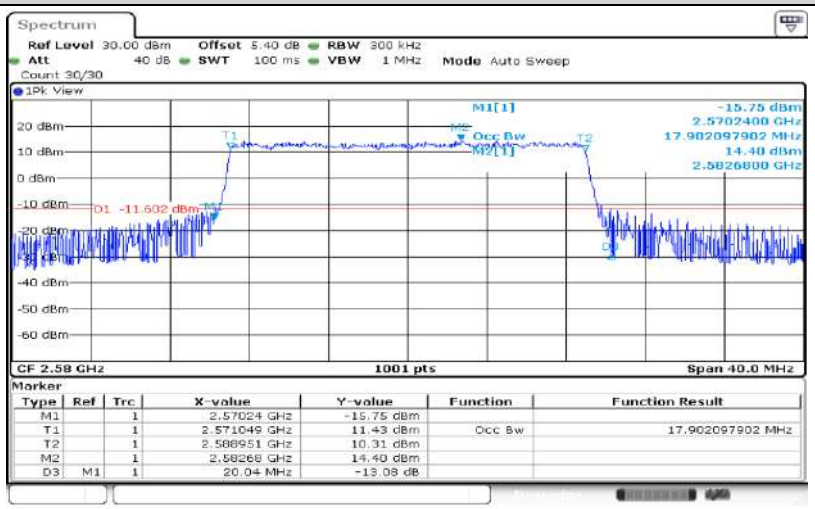

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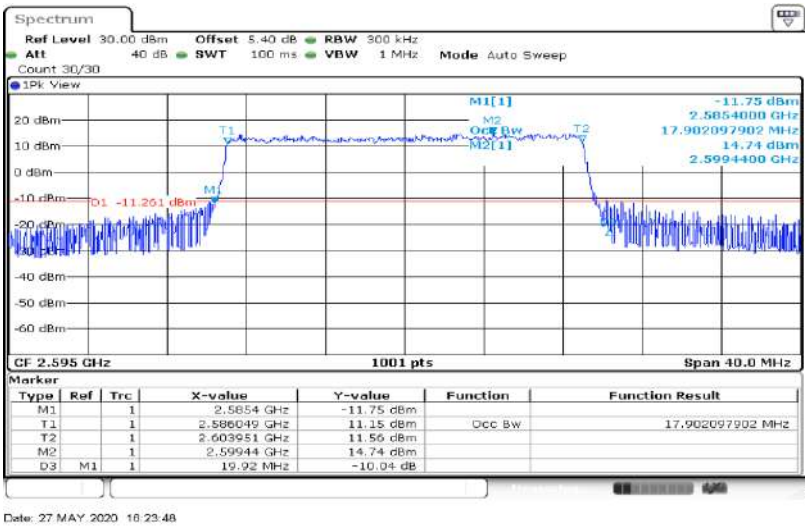

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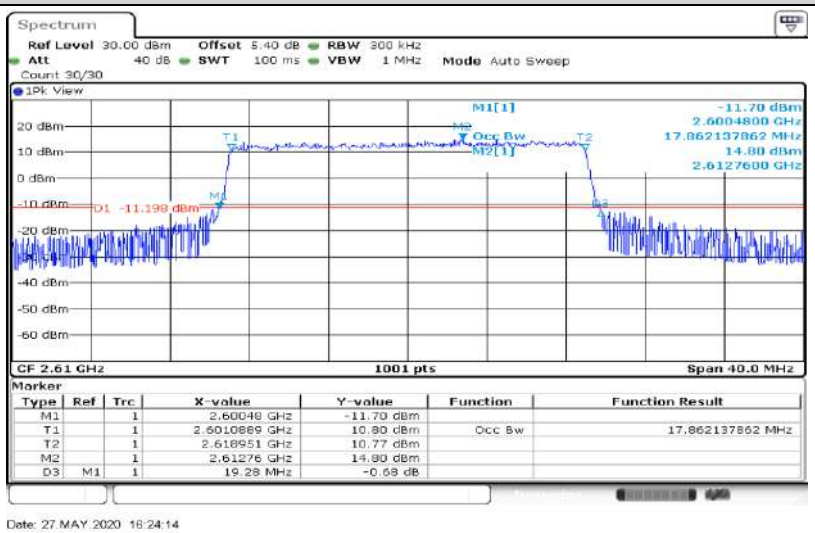

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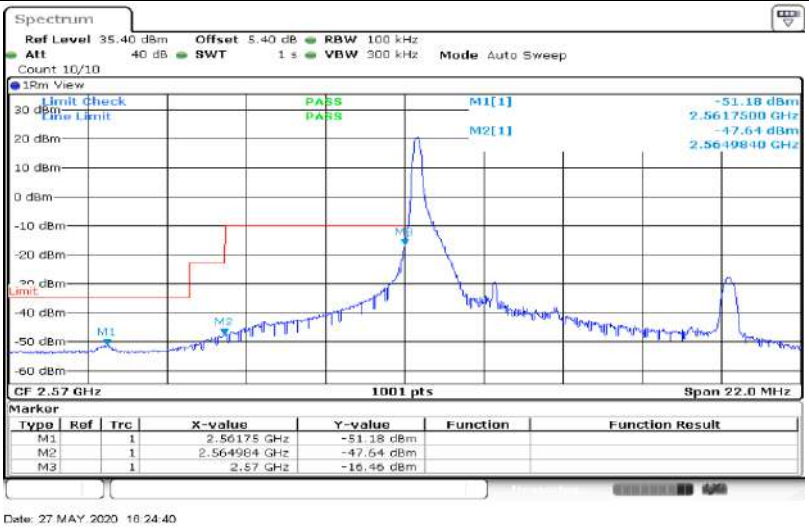
5. Band Edge Compliance

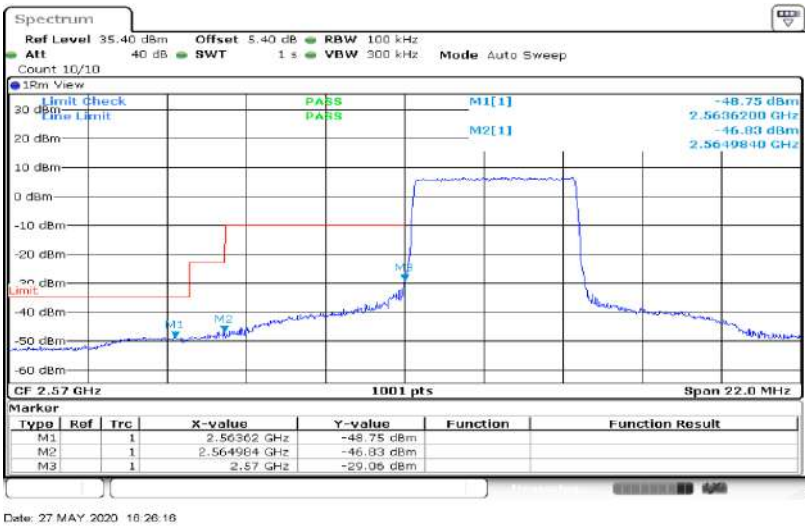
5.1. Test Plots

Band38-5MHz-QPSK-37775-1RB#0



Date: 27 MAY 2020 16:24:40

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



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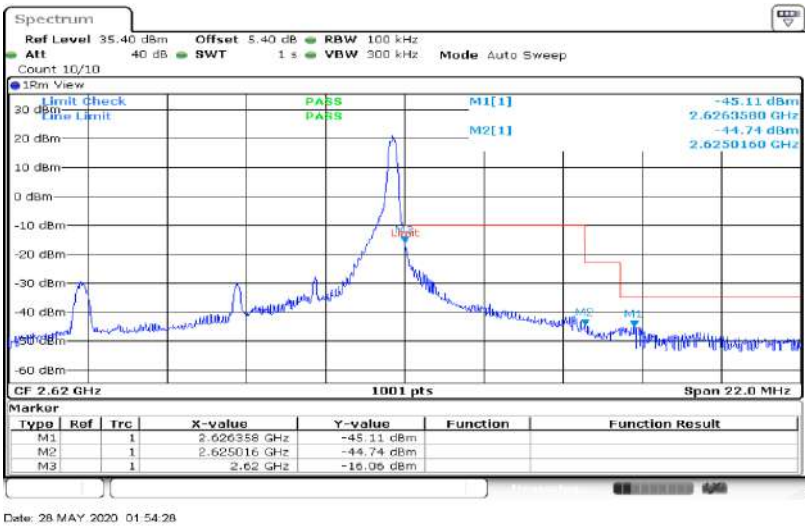
Band38-5MHz-QPSK-38225-1RB#24



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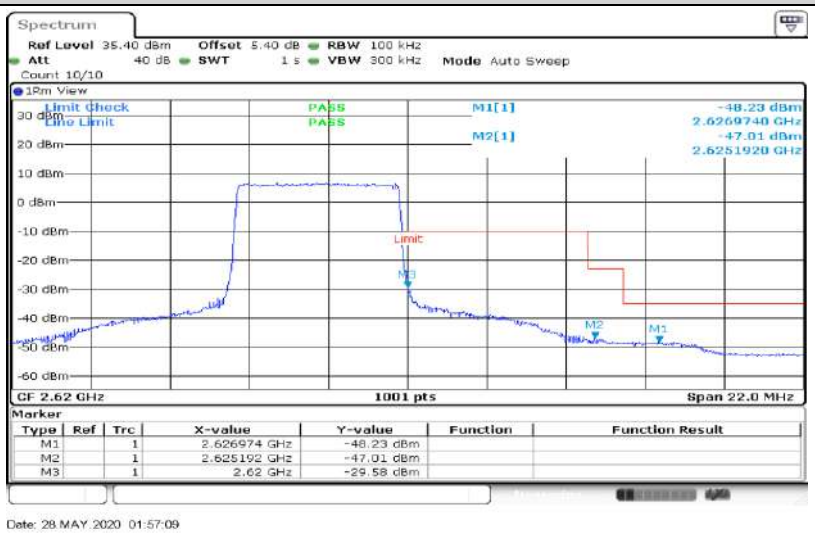
Band38-5MHz-QPSK-38225-25RB#0



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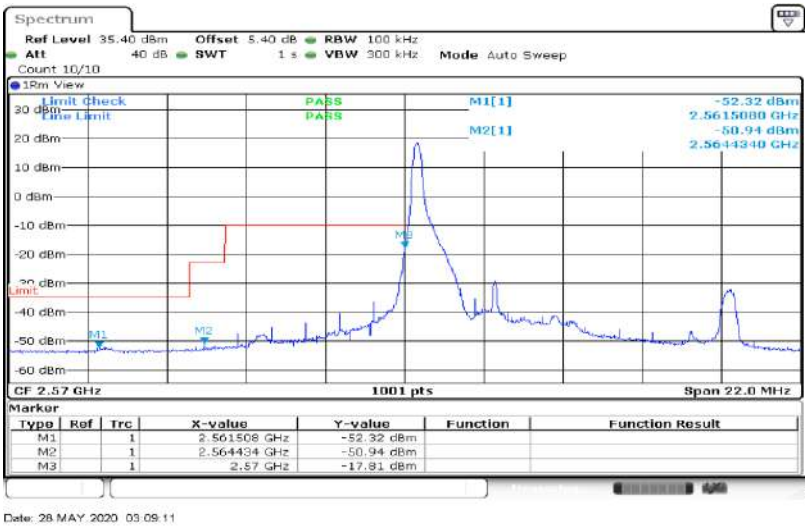
Band38-5MHz-64QAM-37775-1RB#0



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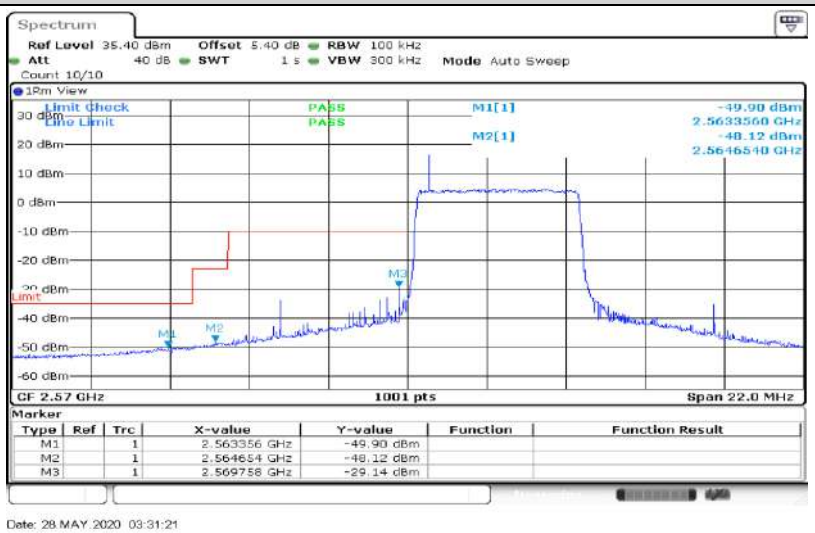

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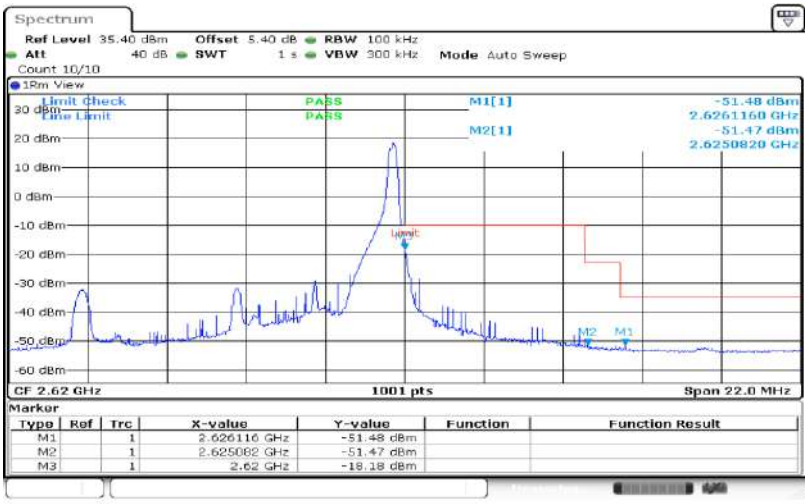

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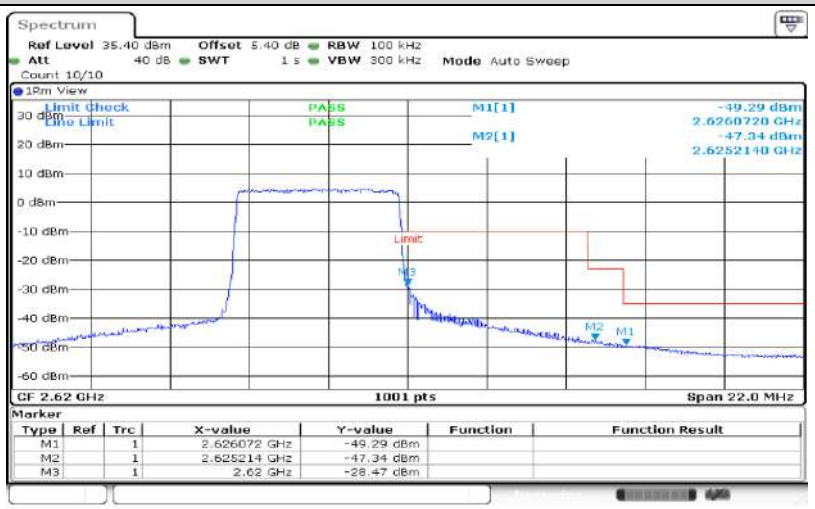
Band38-5MHz-64QAM-38225-25RB#0



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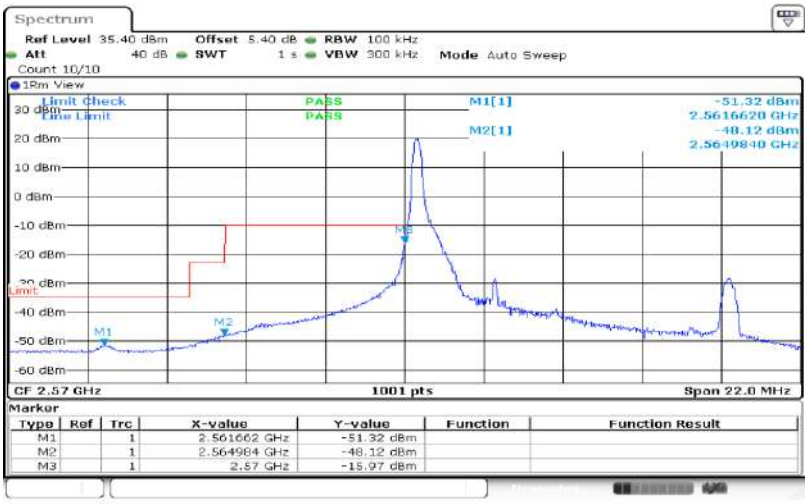

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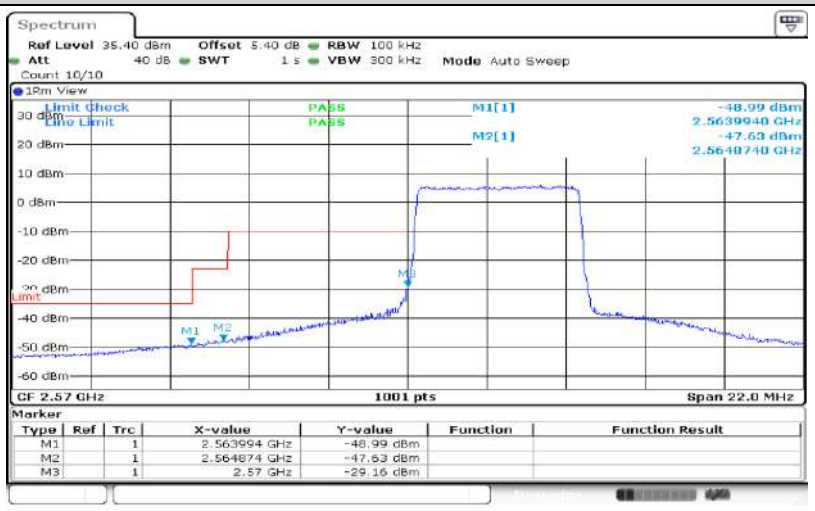

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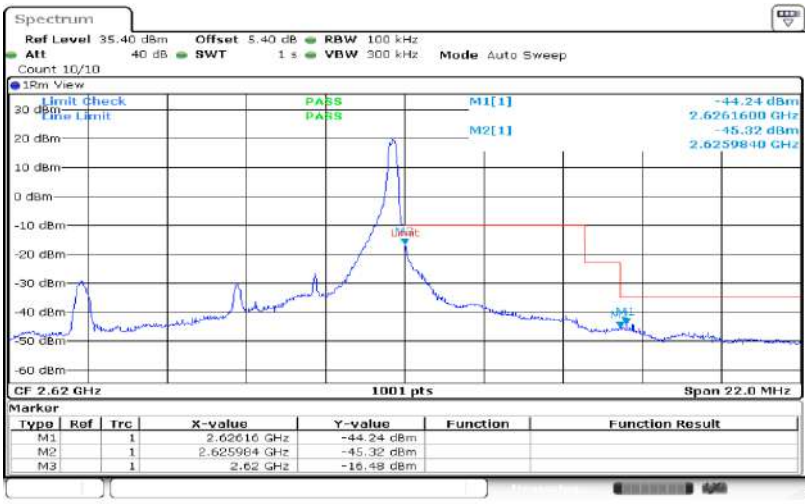
Band38-5MHz-16QAM-38225-1RB#24



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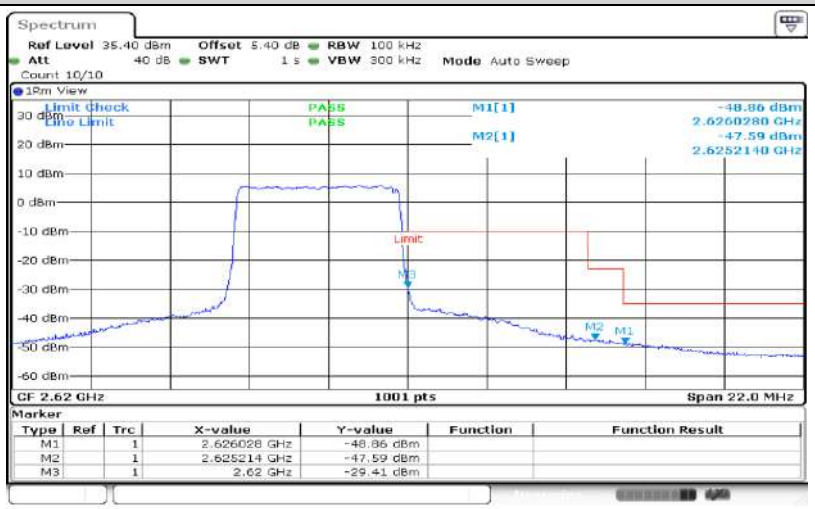

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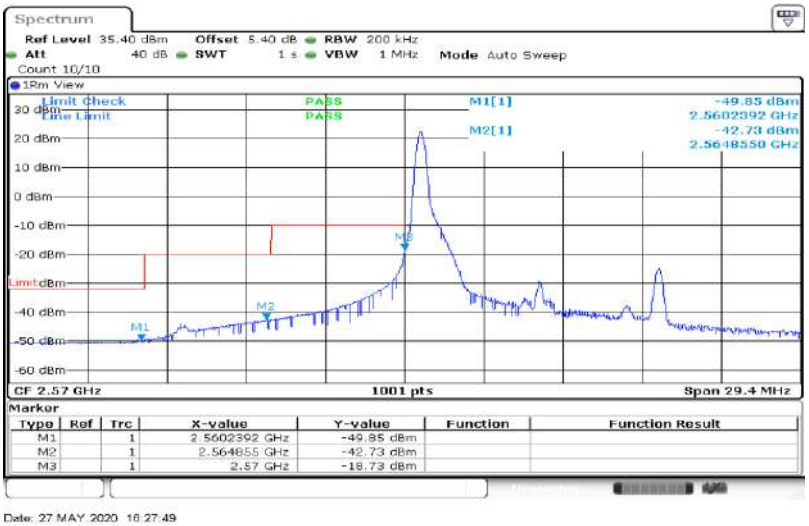
Band38-10MHz-QPSK-37800-1RB#0



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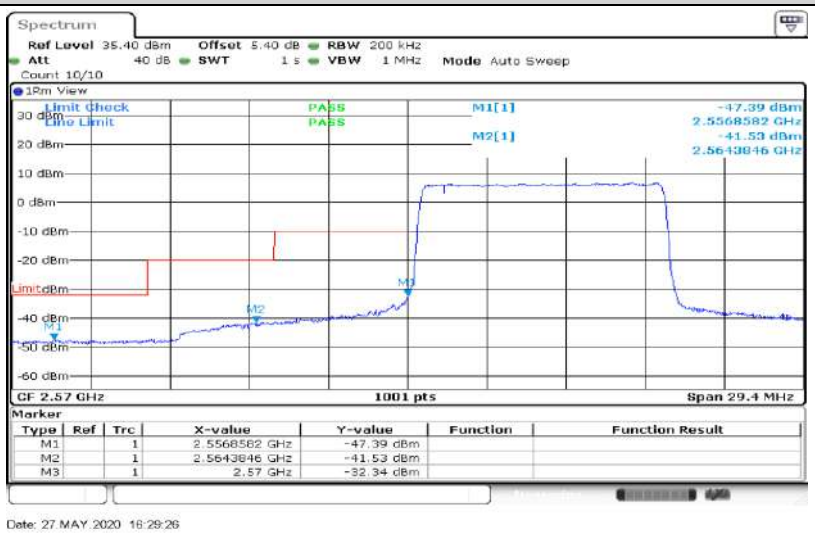
Band38-10MHz-QPSK-37800-50RB#0



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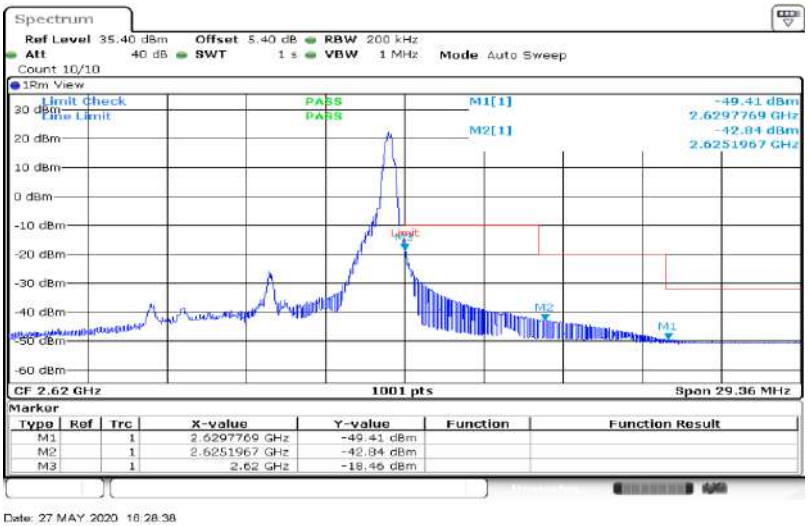

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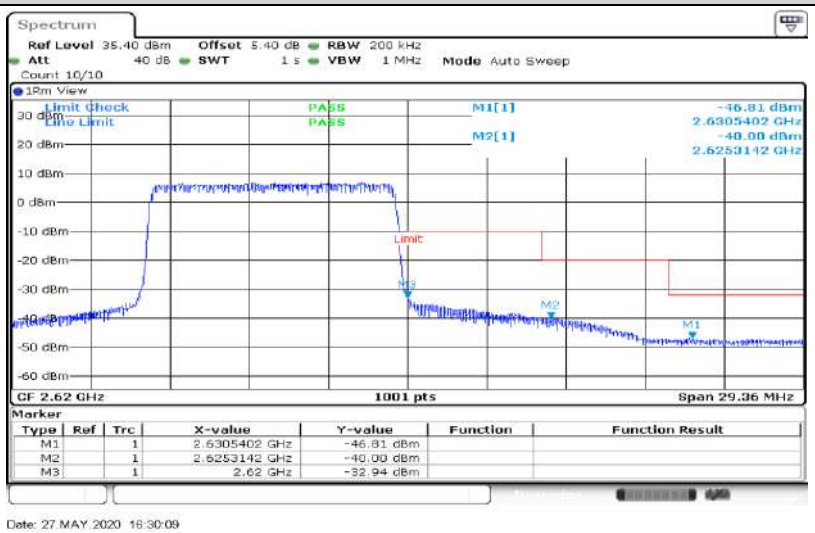
Band38-10MHz-QPSK-38200-50RB#0



Date: 27.MAY.2020 16:30:09

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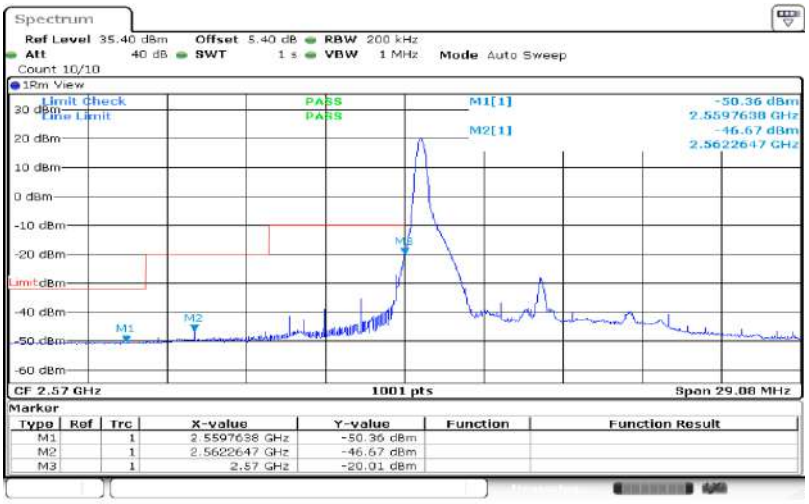
Band38-10MHz-64QAM-37800-1RB#0



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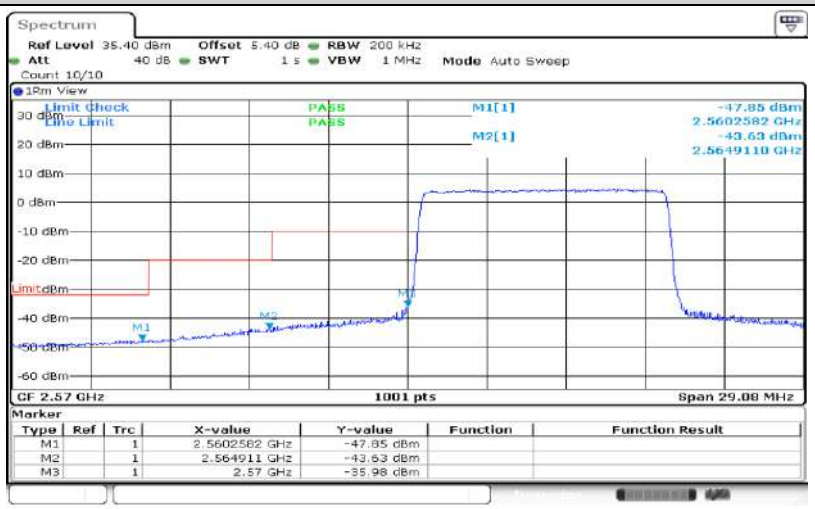

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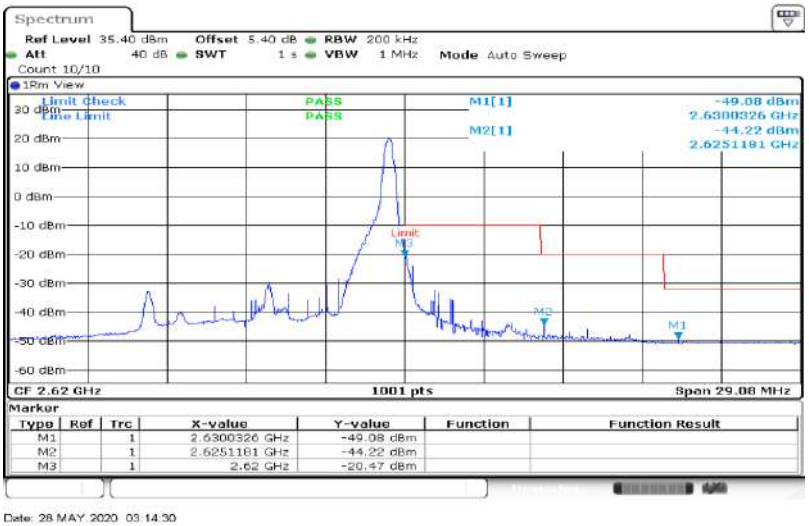
Band38-10MHz-64QAM-38200-1RB#49



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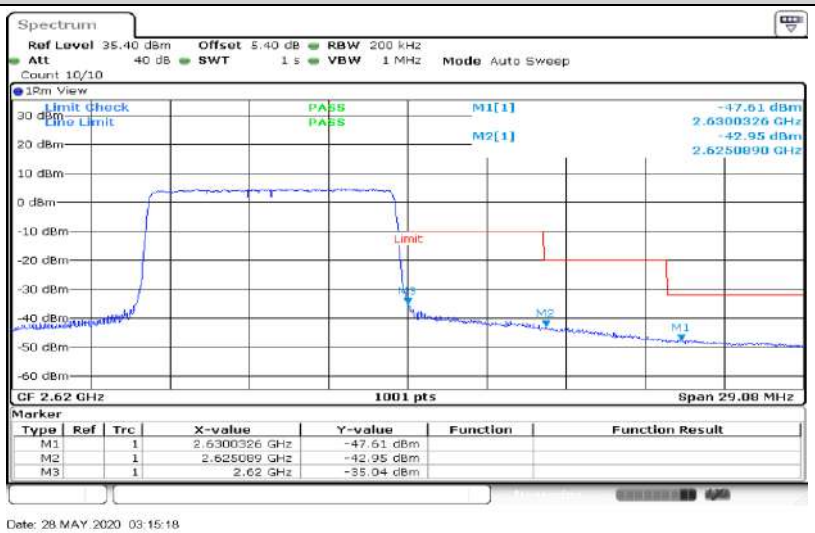
Band38-10MHz-64QAM-38200-50RB#0



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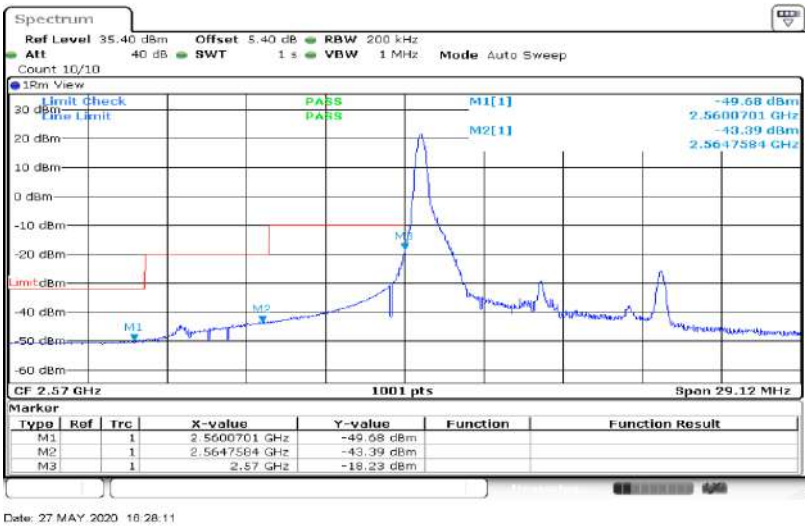
Band38-10MHz-16QAM-37800-1RB#0



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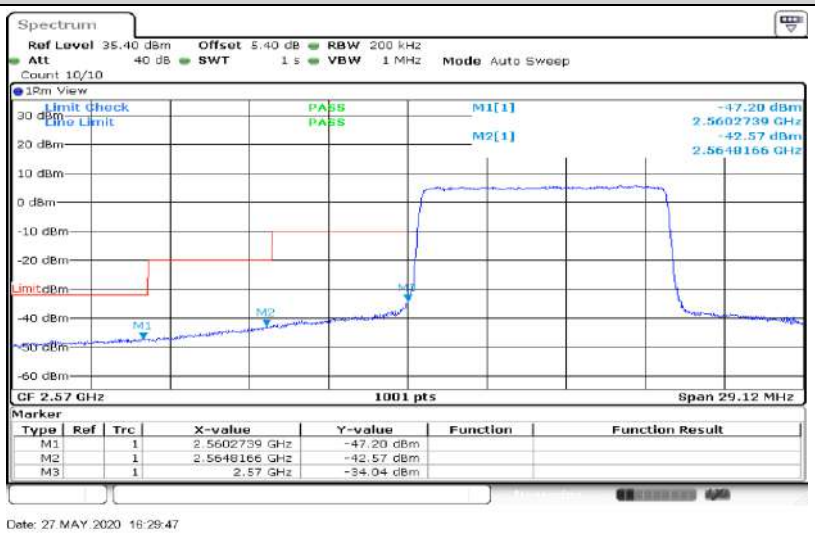
Band38-10MHz-16QAM-37800-50RB#0



Date: 27.MAY.2020 16:29:47

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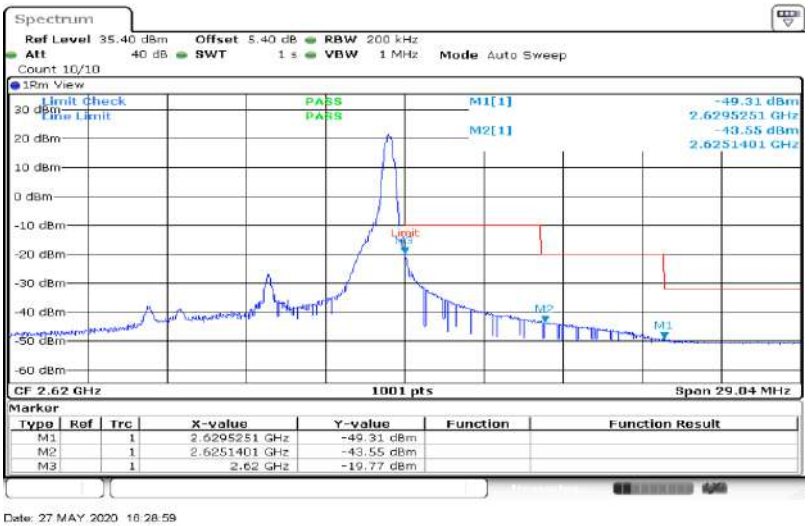
Band38-10MHz-16QAM-38200-1RB#49



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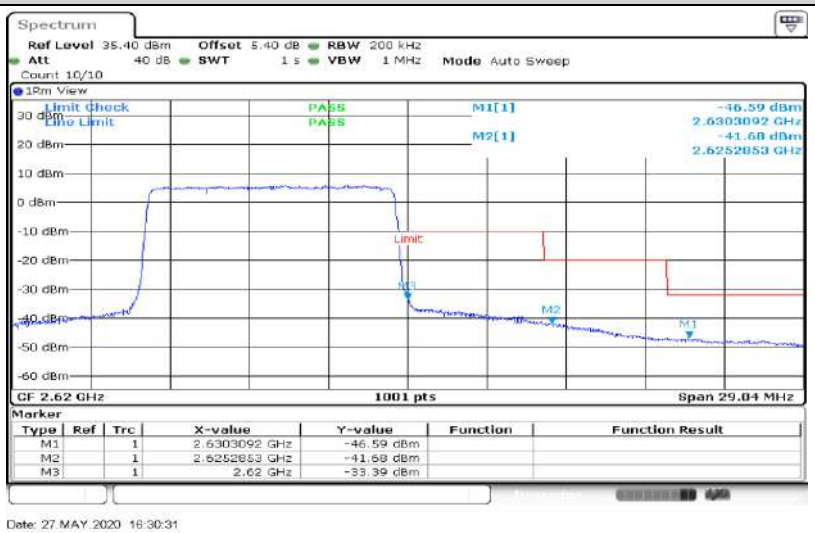
Band38-10MHz-16QAM-38200-50RB#0



Date: 27.MAY.2020 16:30:31

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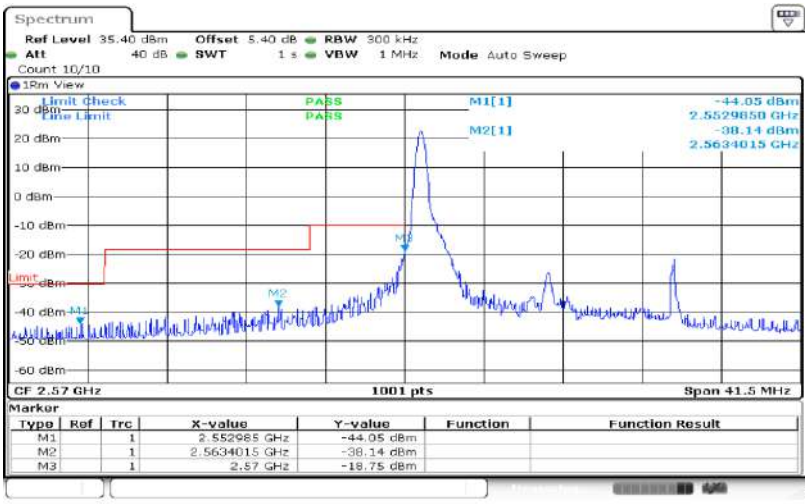
Band38-15MHz-QPSK-37825-1RB#0



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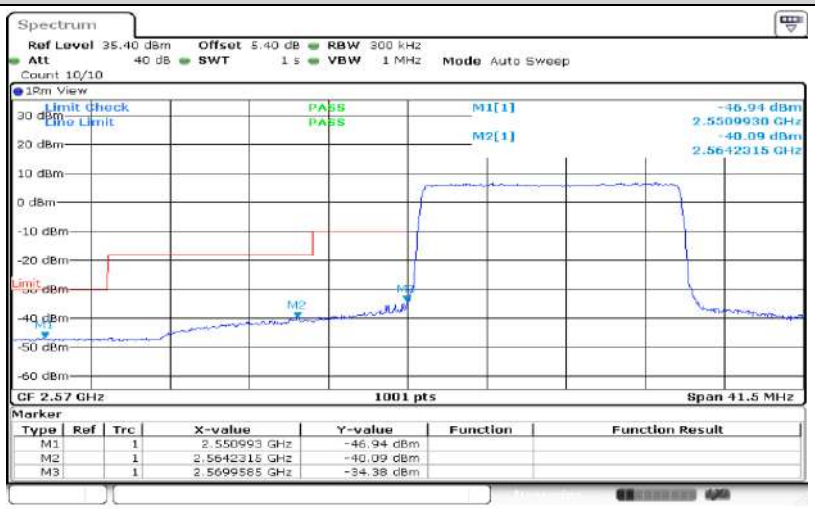
Band38-15MHz-QPSK-37825-75RB#0



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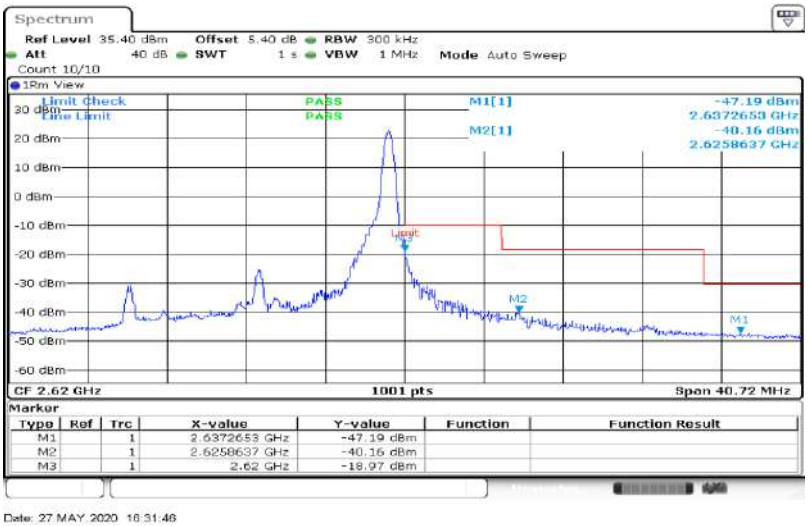
Band38-15MHz-QPSK-38175-1RB#74



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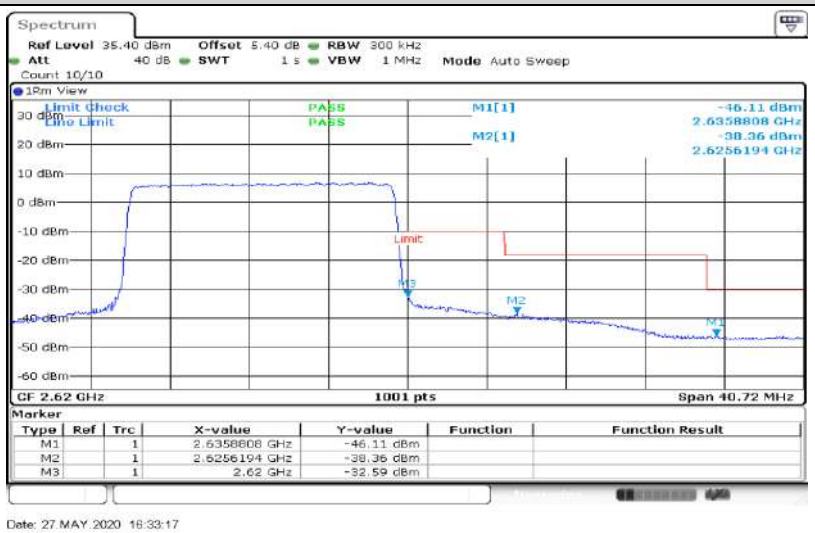
Band38-15MHz-QPSK-38175-75RB#0



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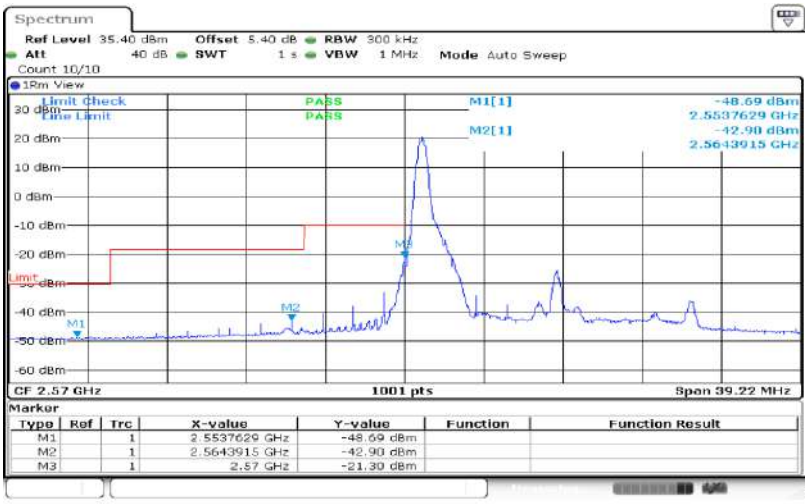

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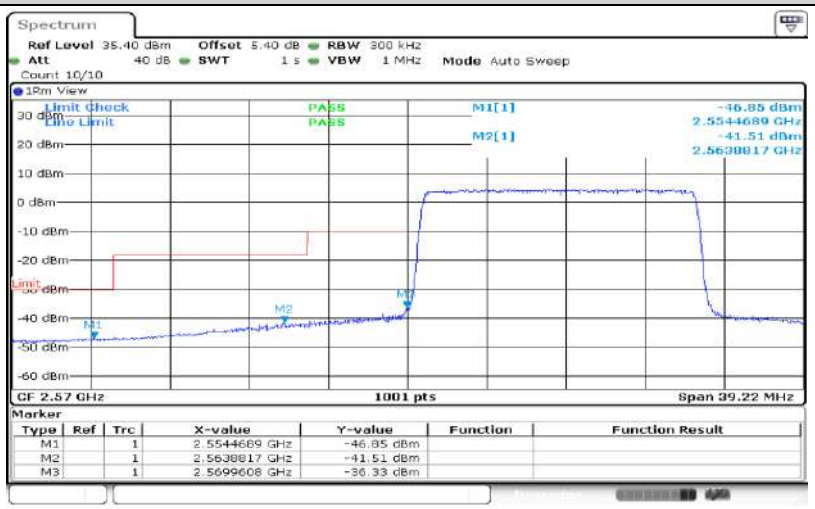
Band38-15MHz-64QAM-37825-75RB#0



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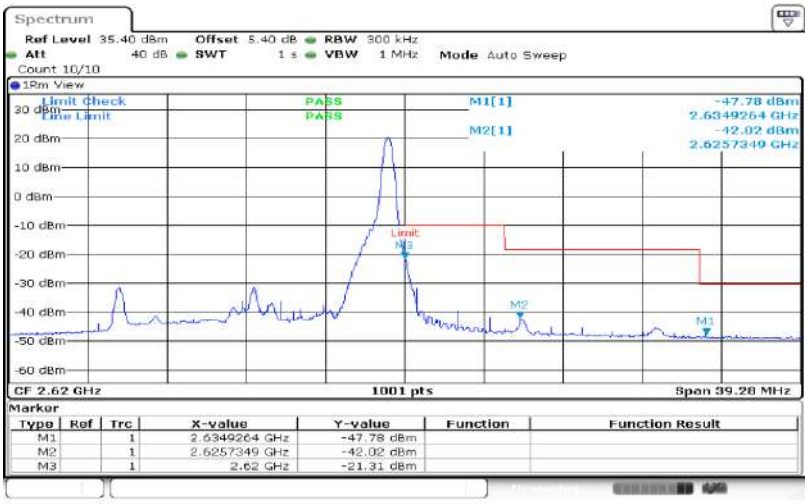
Band38-15MHz-64QAM-38175-1RB#74



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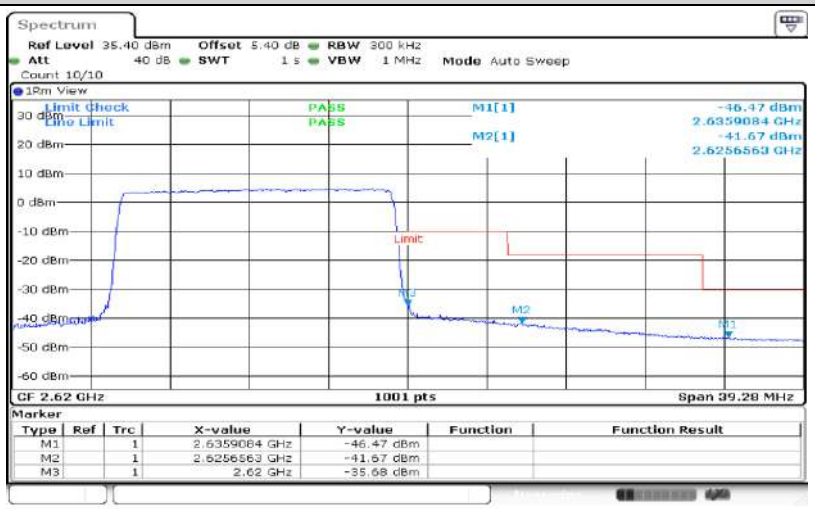

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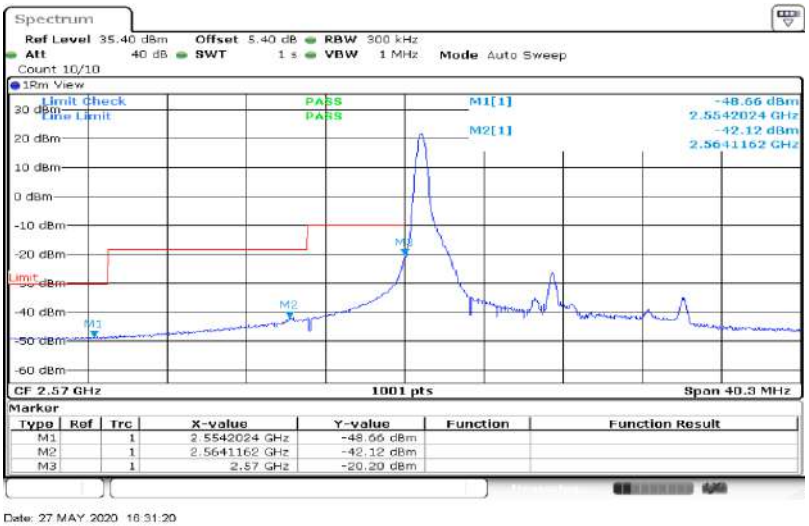
Band38-15MHz-16QAM-37825-1RB#0



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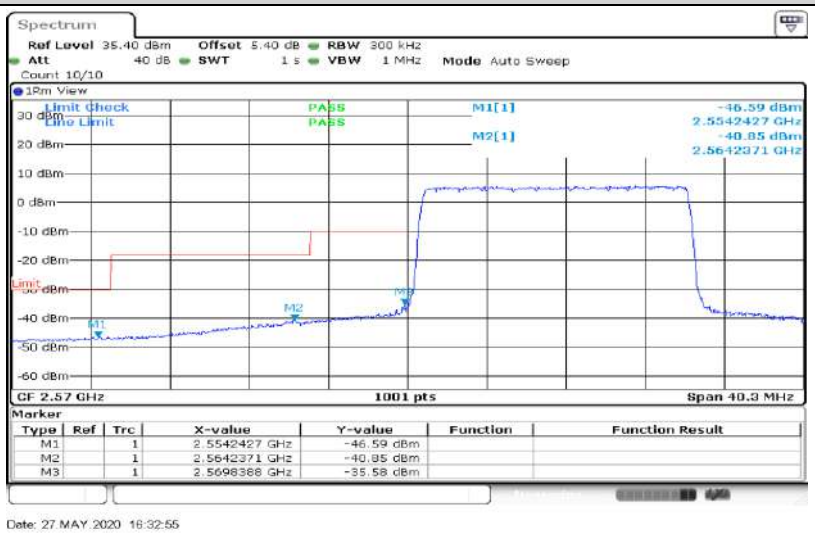
Band38-15MHz-16QAM-37825-75RB#0



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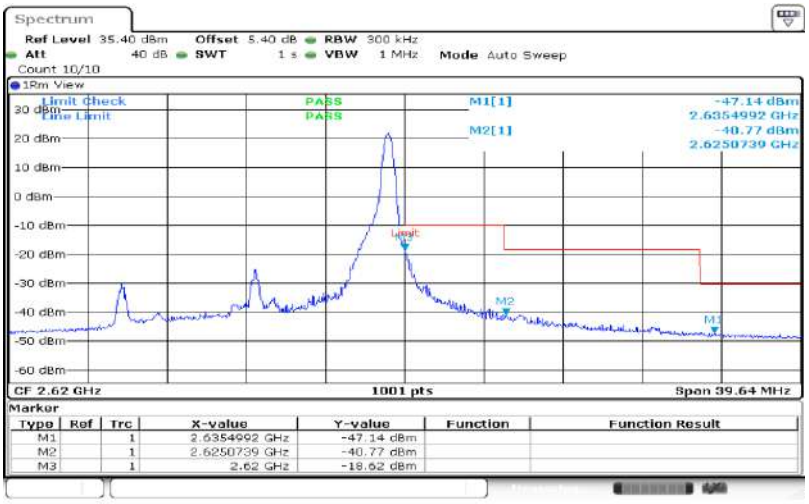
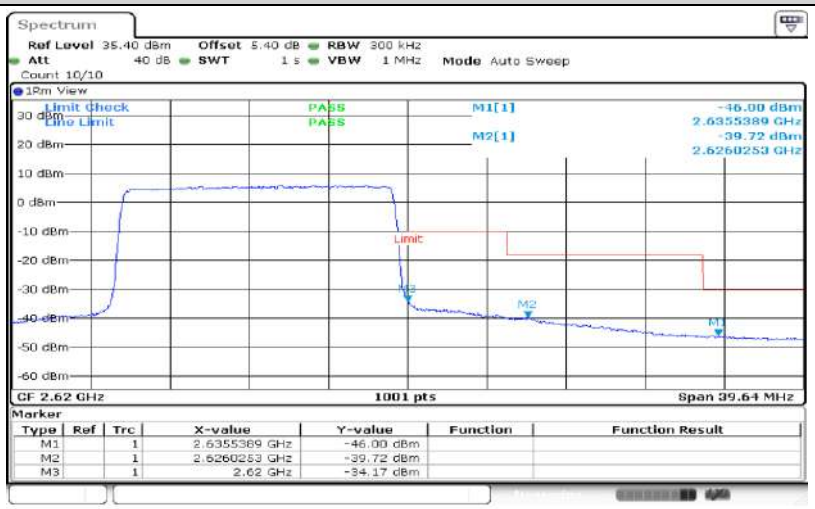
Band38-15MHz-16QAM-38175-1RB#74



Date: 27 MAY 2020 16:32:07

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



Date: 27 MAY 2020 16:33:39

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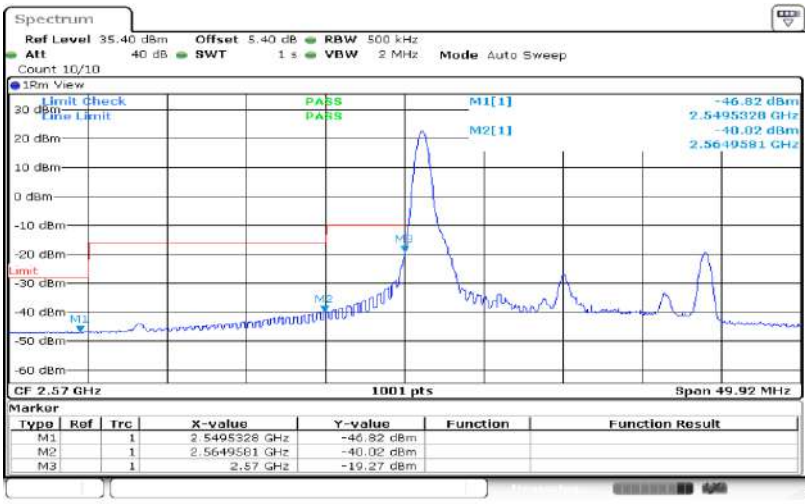
Band38-20MHz-QPSK-37850-1RB#0



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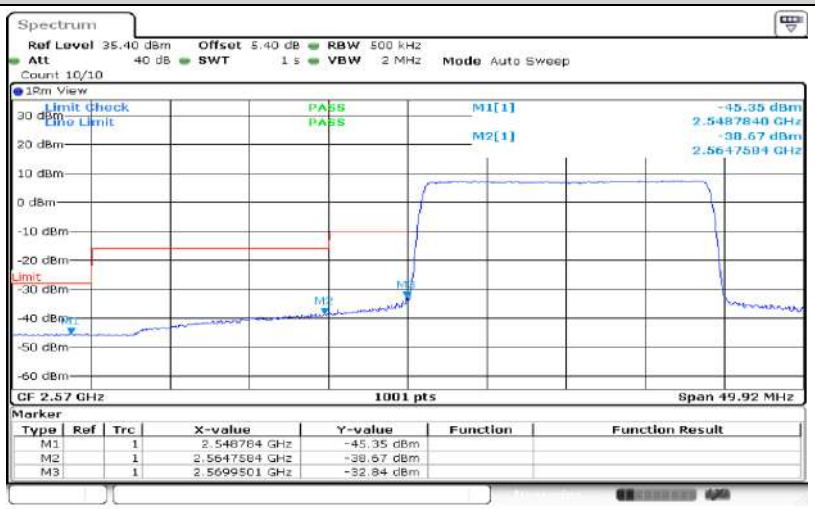
Band38-20MHz-QPSK-37850-100RB#0



Date: 27.MAY.2020 16:35:41

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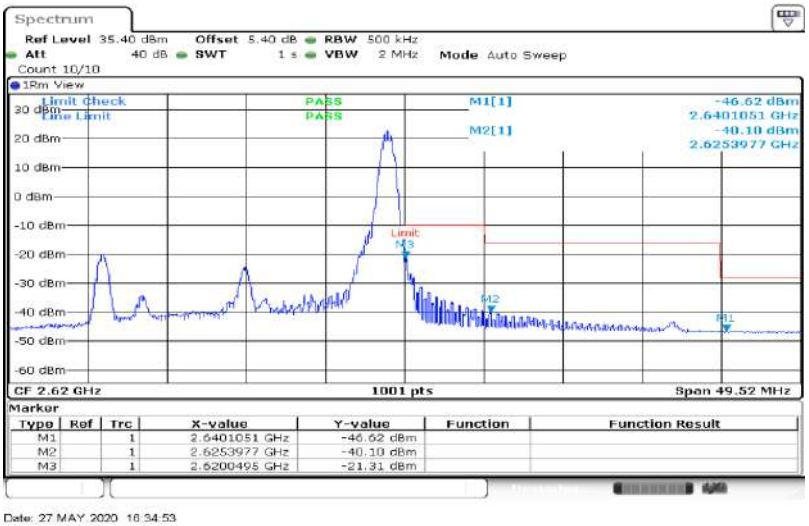
Band38-20MHz-QPSK-38150-1RB#99



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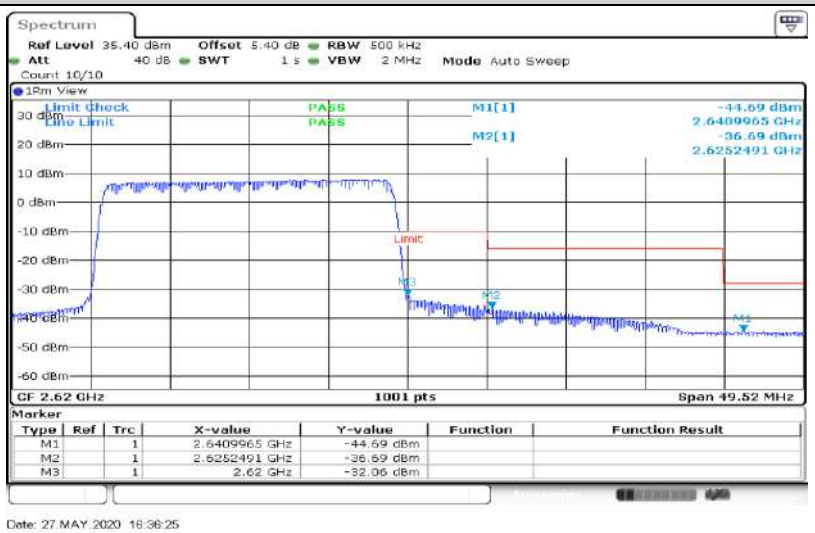
Band38-20MHz-QPSK-38150-100RB#0



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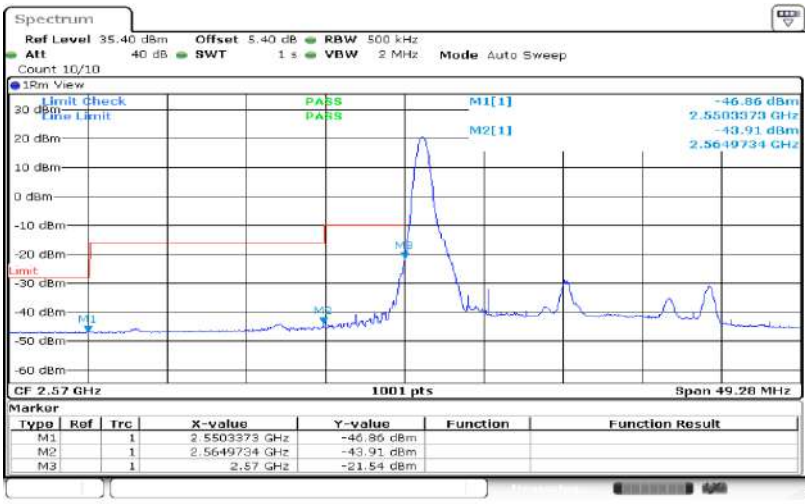
Band38-20MHz-64QAM-37850-1RB#0



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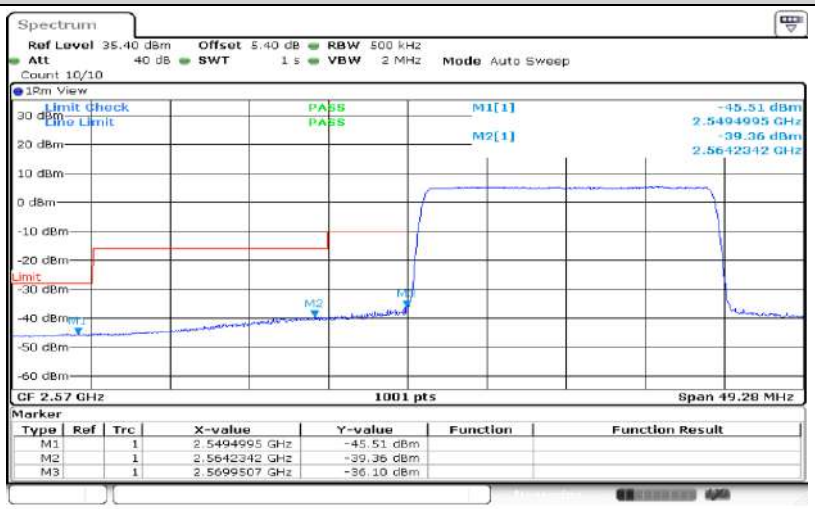
Band38-20MHz-64QAM-37850-100RB#0



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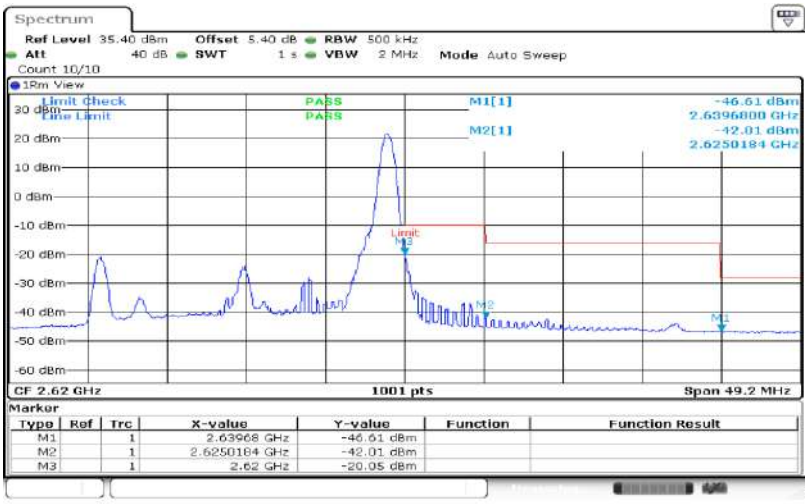
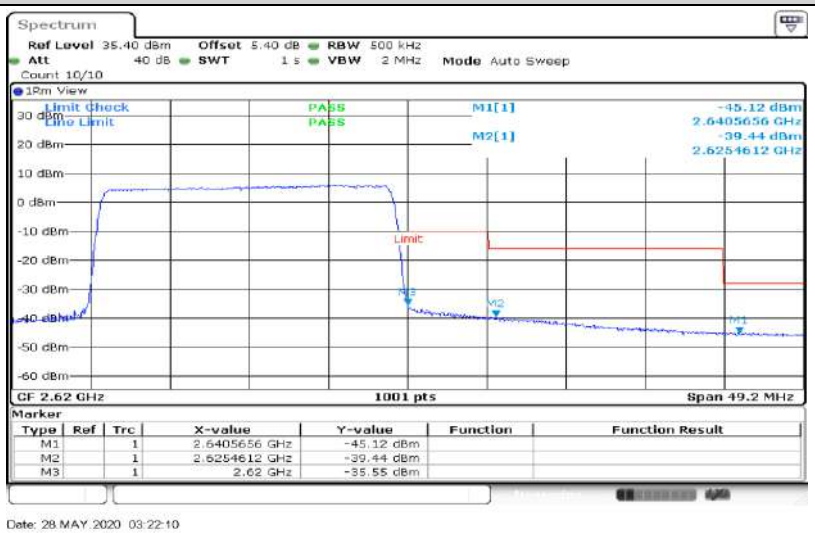
Band38-20MHz-64QAM-38150-1RB#99



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



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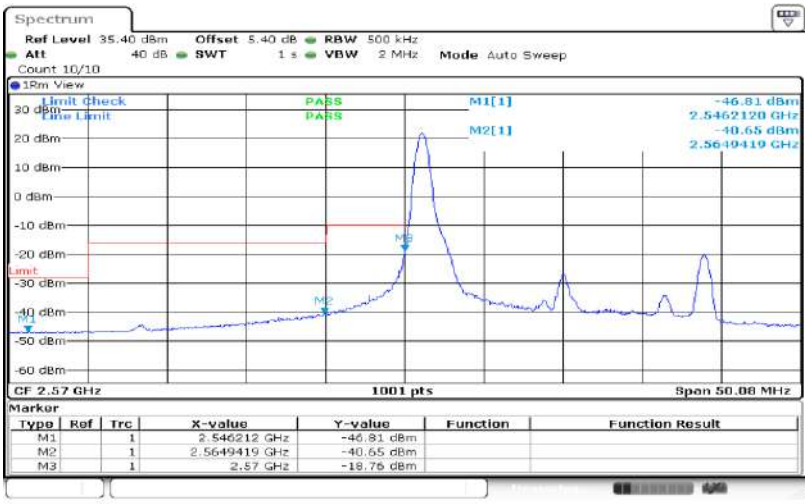
Band38-20MHz-16QAM-37850-1RB#0



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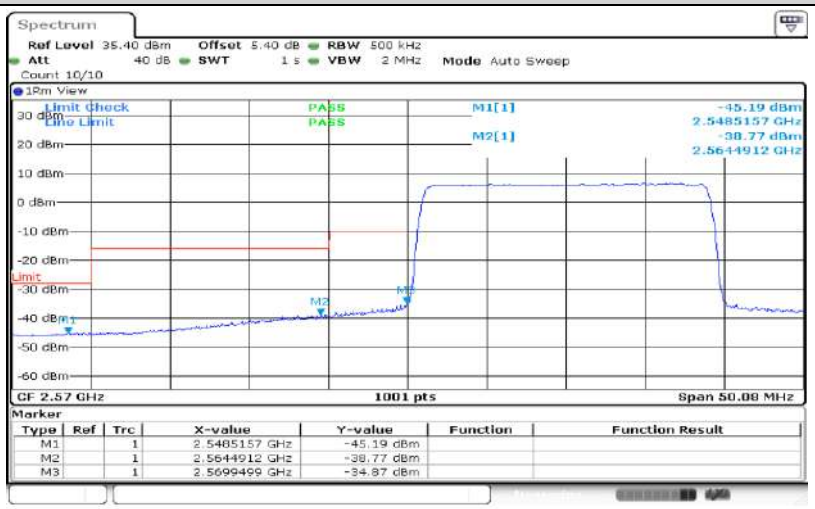
Band38-20MHz-16QAM-37850-100RB#0



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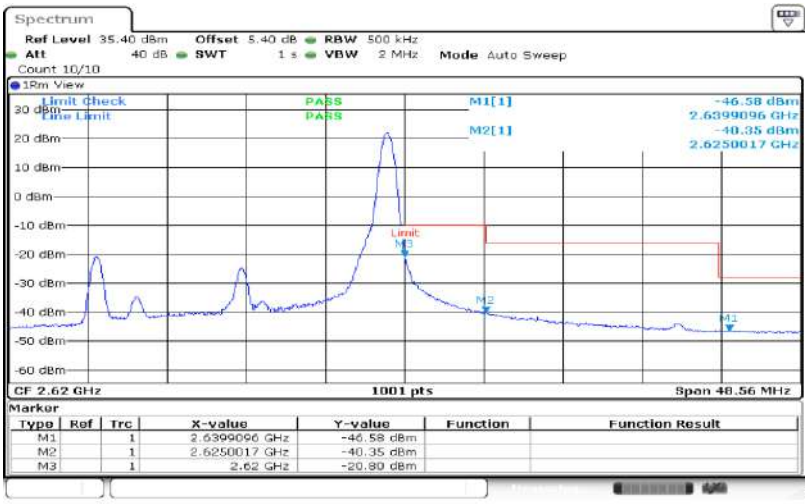
Band38-20MHz-16QAM-38150-1RB#99



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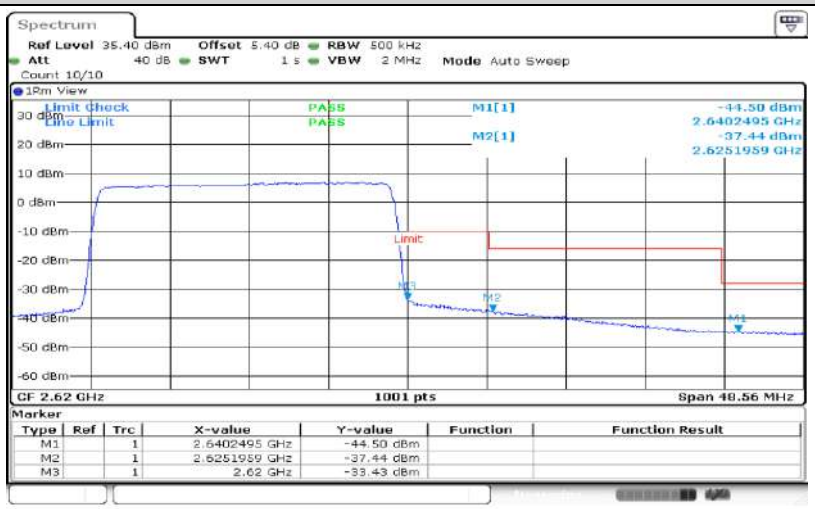
Band38-20MHz-16QAM-38150-100RB#0



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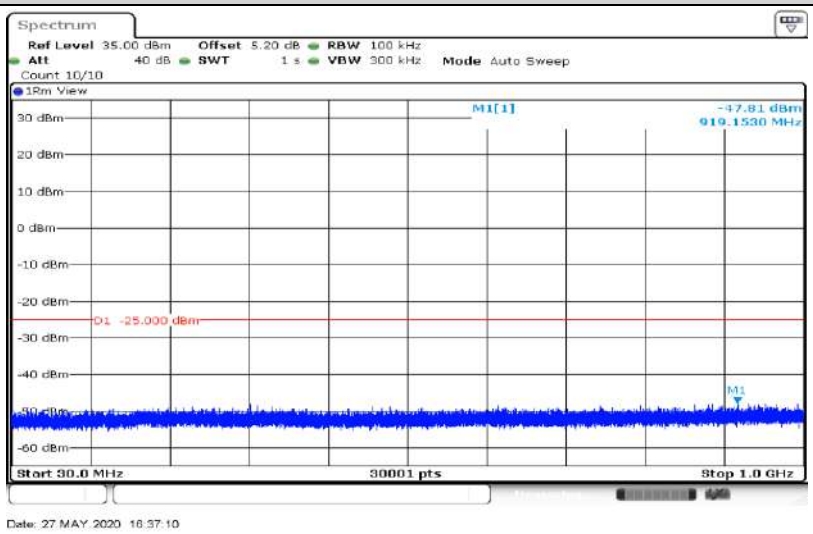
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

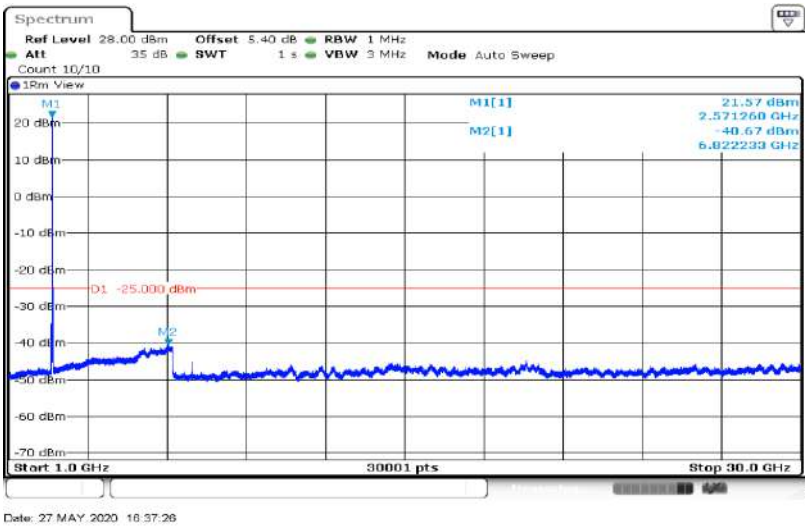
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band38-20MHz-QPSK-37850-1RB#0-Range1:30~1000MHz



Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz



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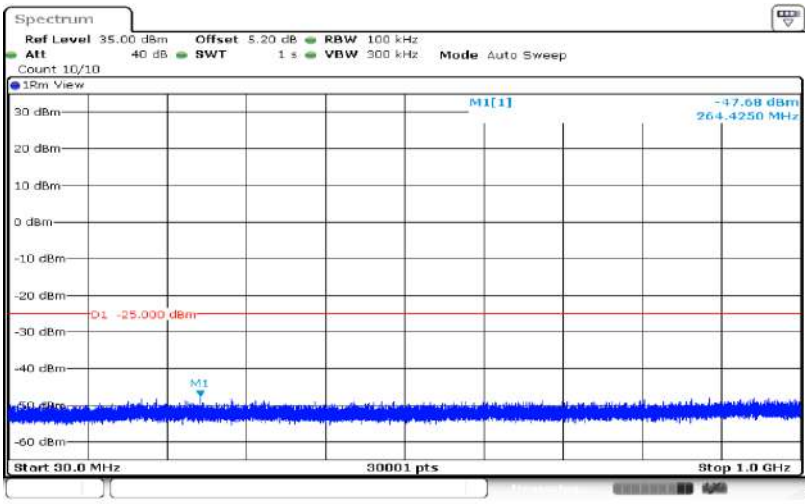
Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz



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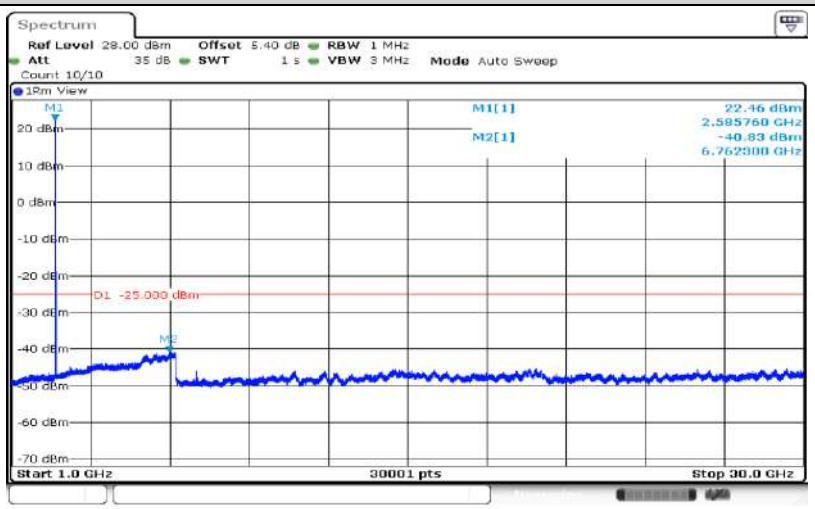
Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz



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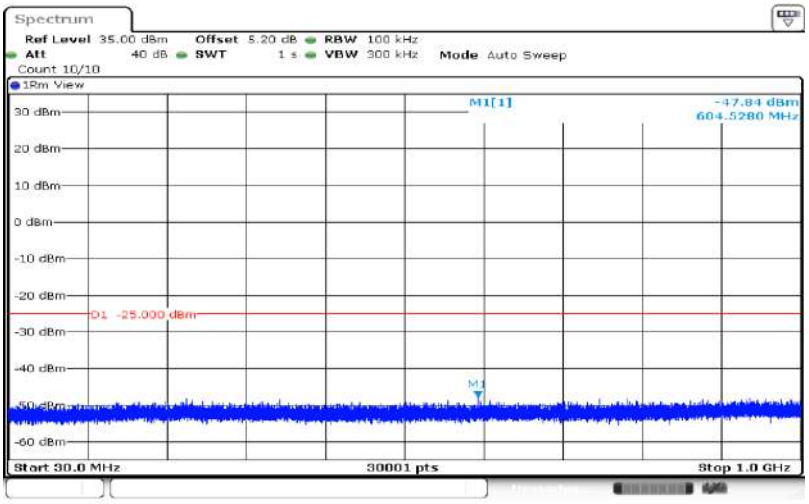
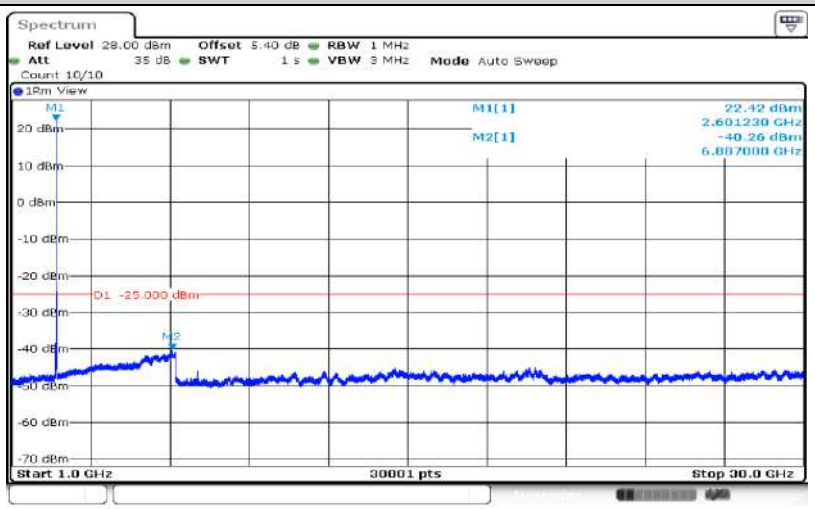
Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz



Date: 27.MAY.2020 16:39:32

Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz



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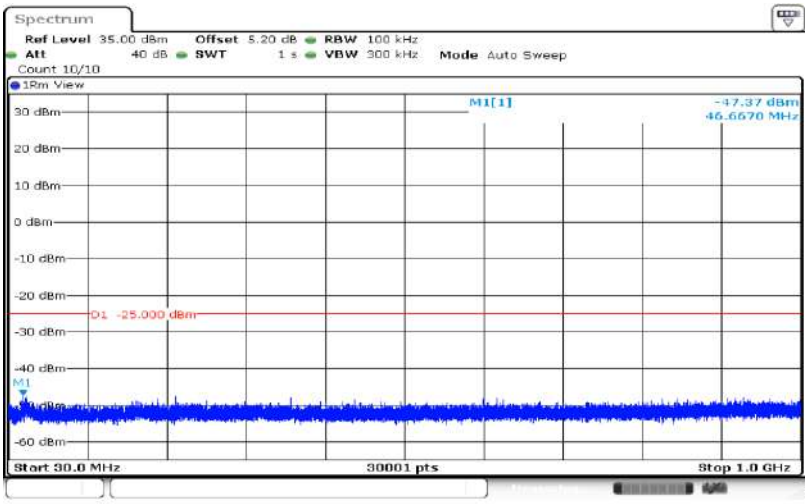
Band38-20MHz-64QAM-37850-1RB#0-Range1:30~1000MHz



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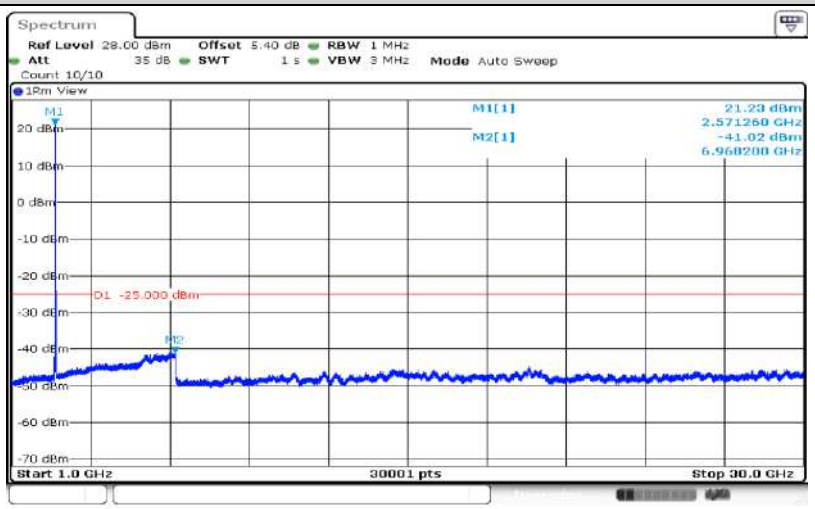
Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz



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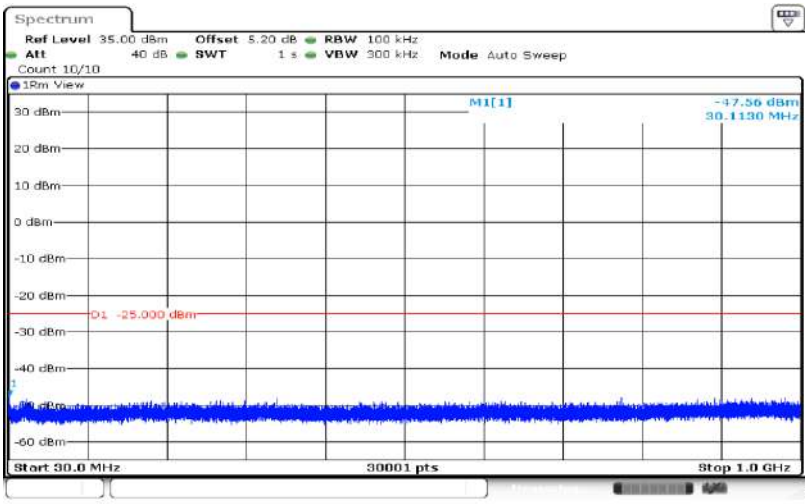
Band38-20MHz-64QAM-38000-1RB#0-Range1:30~1000MHz



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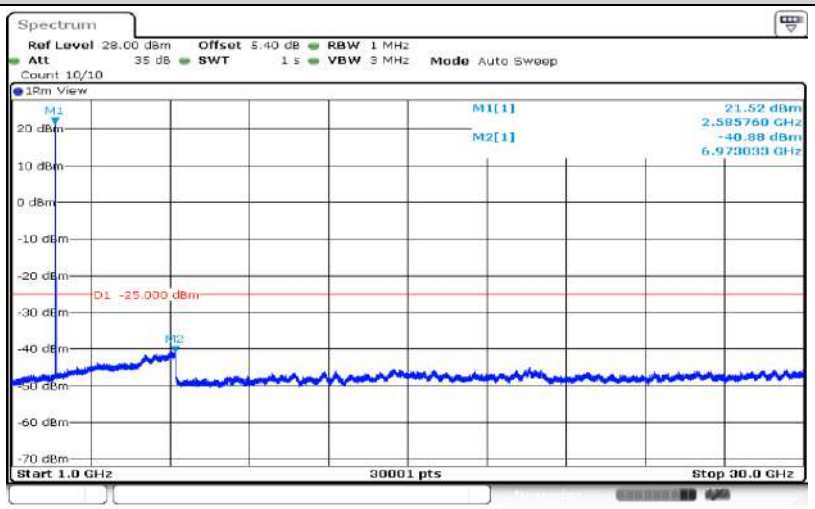

Date: 28.MAY.2020 03:23:24

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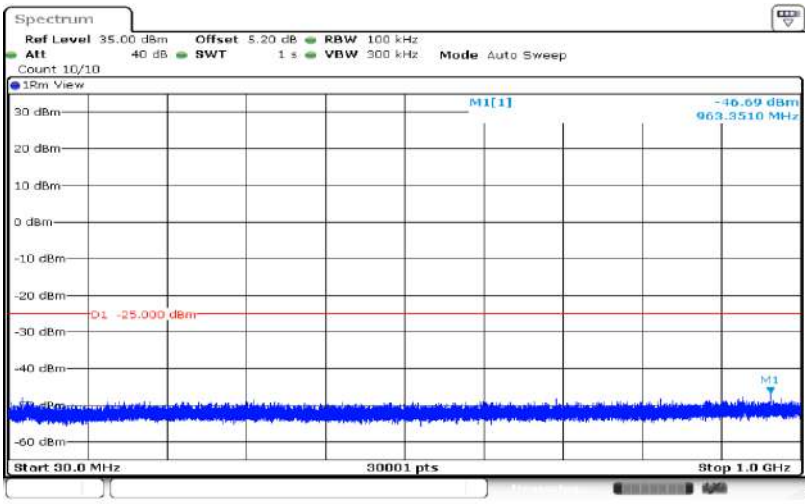
Band38-20MHz-64QAM-38150-1RB#0-Range1:30~1000MHz



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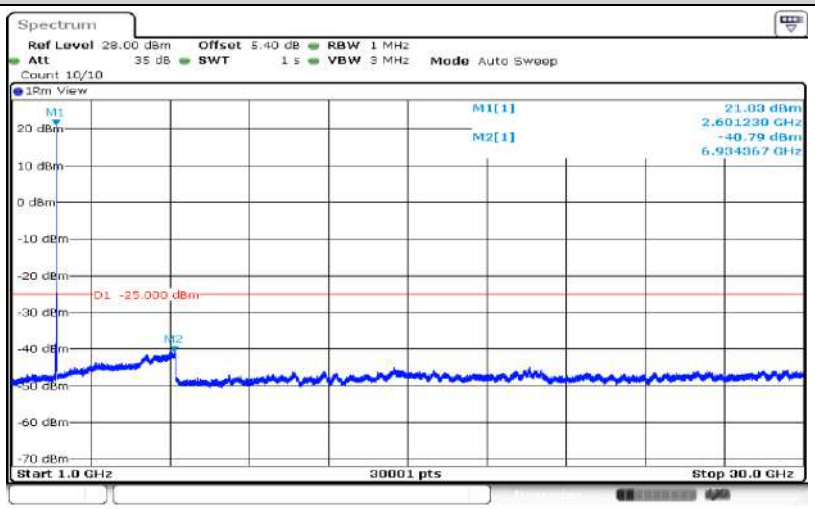

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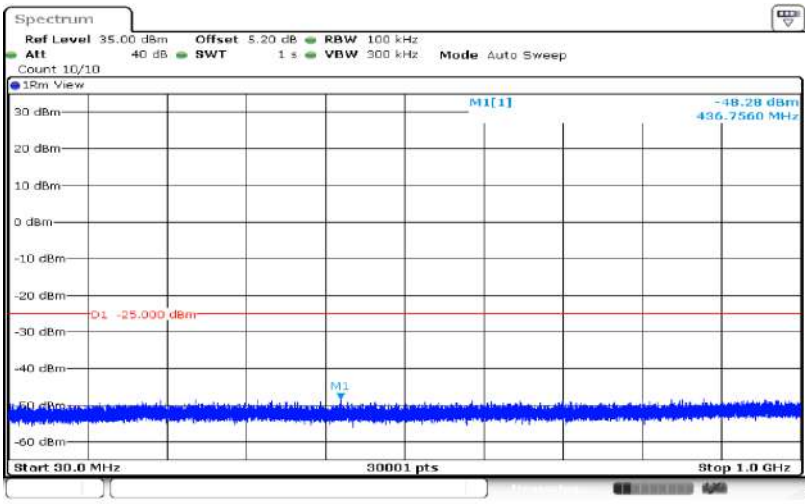

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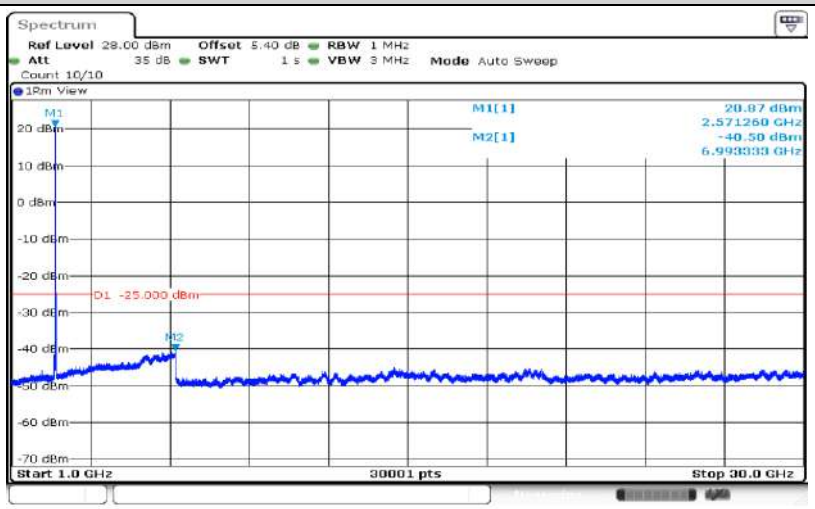
Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



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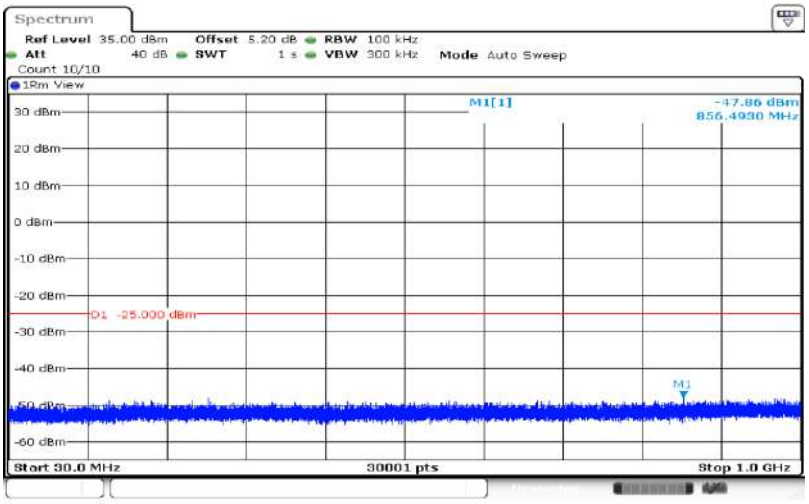

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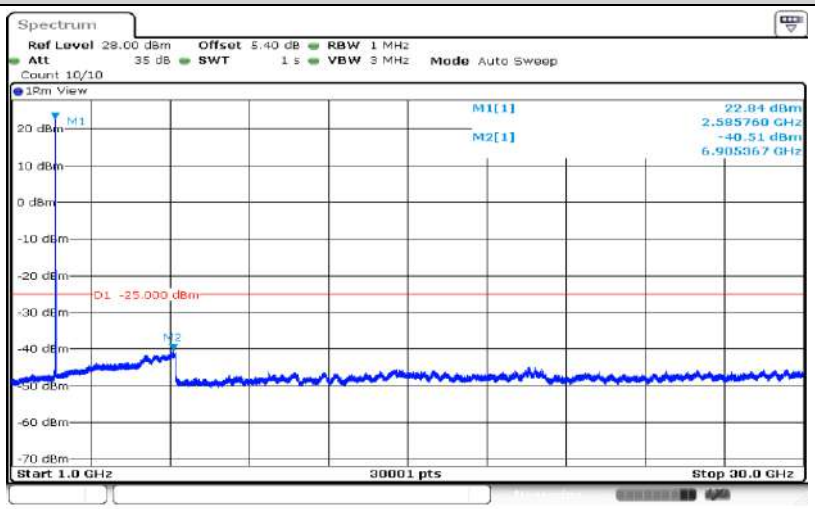

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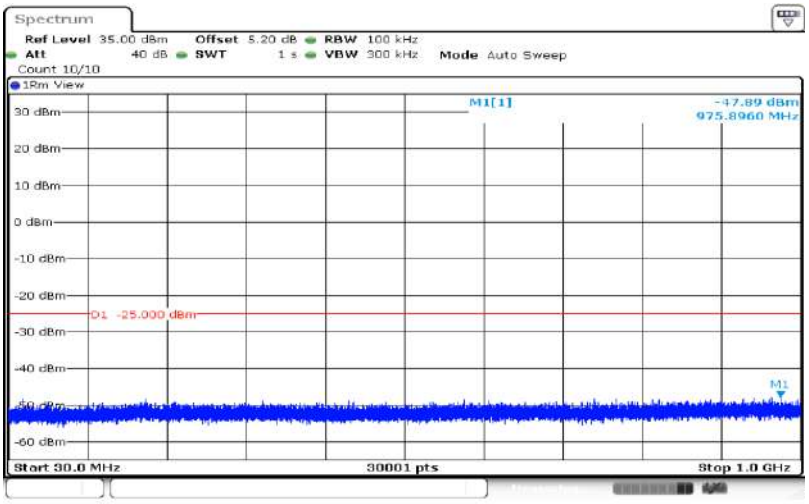

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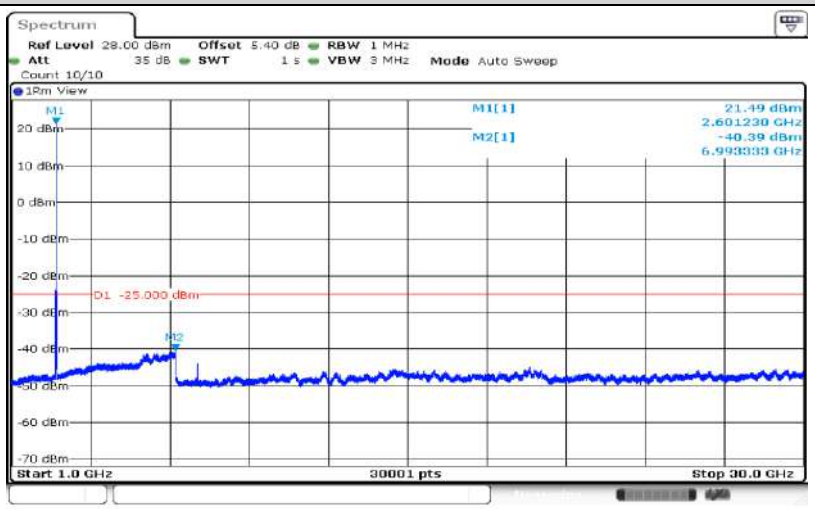

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
112.8421	-64.61	-25.00	39.61	271	34	Vertical
753.2682	-61.27	-25.00	36.27	256	257	Vertical
1650.1300	-44.40	-25.00	19.40	284	98	Vertical
5142.0714	-58.80	-25.00	33.80	269	10	Vertical
14491.8831	-47.53	-25.00	22.53	263	183	Vertical
17994.9998	-39.99	-25.00	14.99	274	208	Vertical
41.6891	-63.97	-25.00	38.97	184	133	Horizontal
229.7330	-67.42	-25.00	42.42	175	331	Horizontal
1590.5181	-44.85	-25.00	19.85	196	157	Horizontal
5142.0714	-57.77	-25.00	32.77	175	10	Horizontal
16386.4462	-43.12	-25.00	18.12	186	257	Horizontal
17304.9768	-44.61	-25.00	19.61	192	10	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
107.5554	-64.36	-25.00	39.36	184	109	Vertical
651.7526	-63.23	-25.00	38.23	175	282	Vertical
1736.5473	-44.15	-25.00	19.15	196	65	Vertical
5172.0724	-57.00	-25.00	32.00	184	11	Vertical
14498.3833	-47.67	-25.00	22.67	155	257	Vertical
17995.4999	-39.99	-25.00	14.99	198	257	Vertical
43.7262	-63.94	-25.00	38.94	184	208	Horizontal
234.1952	-66.76	-25.00	41.76	175	110	Horizontal
1799.7600	-43.42	-25.00	18.42	162	342	Horizontal
5172.0724	-54.90	-25.00	29.90	195	11	Horizontal
16391.9464	-43.55	-25.00	18.55	184	307	Horizontal
17254.9752	-44.64	-25.00	19.64	199	110	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.3685	-63.89	-25.00	38.89	187	232	Vertical
578.3684	-63.79	-25.00	38.79	225	109	Vertical
1704.9410	-44.11	-25.00	19.11	296	206	Vertical
5202.0734	-58.27	-25.00	33.27	248	35	Vertical
14481.3827	-47.55	-25.00	22.55	259	307	Vertical
17993.9998	-40.24	-25.00	15.24	227	60	Vertical
43.3867	-64.42	-25.00	39.42	148	160	Horizontal
233.6617	-67.90	-25.00	42.90	165	331	Horizontal
1791.3583	-43.39	-25.00	18.39	195	154	Horizontal
5202.0734	-56.05	-25.00	31.05	198	12	Horizontal
16390.4463	-43.40	-25.00	18.40	175	85	Horizontal
17996.4999	-44.16	-25.00	19.16	196	85	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-2.00	-0.000775	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-3.80	-0.001473	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-12.00	-0.004624	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-6.90	-0.002659	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-6.50	-0.002505	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-0.40	-0.000153	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-3.00	-0.001149	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-7.00	-0.002682	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VL	NT	-8.00	-0.003101	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VN	NT	-1.30	-0.000504	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VH	NT	-3.00	-0.001163	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-1.50	-0.000578	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	0.10	0.000039	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	-4.80	-0.001850	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VL	NT	-1.40	-0.000536	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VN	NT	-0.20	-0.000077	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VH	NT	-6.30	-0.002414	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-3.70	-0.001434	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-4.70	-0.001822	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-3.10	-0.001202	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-7.60	-0.002929	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-6.00	-0.002312	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-6.90	-0.002659	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-3.10	-0.001188	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-7.00	-0.002682	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	0.10	0.000038	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict

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Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-5.00	-0.001938	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-2.10	-0.000814	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-2.80	-0.001085	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-2.80	-0.001085	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	0.80	0.000310	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-2.70	-0.001047	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-0.70	-0.000271	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	0.10	0.000039	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-7.30	-0.002813	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-6.40	-0.002466	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-12.40	-0.004778	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-7.30	-0.002813	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-6.90	-0.002659	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-10.30	-0.003969	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-9.40	-0.003622	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-6.90	-0.002659	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	0.80	0.000307	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-5.30	-0.002031	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-5.40	-0.002069	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-1.20	-0.000460	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	0.90	0.000345	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-1.10	-0.000421	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-1.70	-0.000651	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-6.70	-0.002567	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-30	-6.20	-0.002403	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-20	-3.20	-0.001240	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	0	-7.30	-0.002829	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	10	-8.50	-0.003295	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	20	-4.30	-0.001667	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	30	-2.10	-0.000814	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	40	-5.40	-0.002093	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	50	-4.30	-0.001667	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	-1.20	-0.000462	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-20	-0.50	-0.000193	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-5.40	-0.002081	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-3.40	-0.001310	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-5.00	-0.001927	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-0.50	-0.000193	±2.5	PASS

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Band38	20MHz	64QAM	38000	100RB#0	NV	40	-1.60	-0.000617	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-1.90	-0.000732	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-30	-3.10	-0.001188	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-20	-3.20	-0.001226	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	0	-5.40	-0.002069	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	10	-7.50	-0.002874	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	20	-2.10	-0.000805	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	30	-2.40	-0.000920	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	40	-6.80	-0.002605	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	50	-1.10	-0.000421	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-2.60	-0.001008	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-0.60	-0.000233	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-1.40	-0.000543	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-3.80	-0.001473	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-4.10	-0.001589	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-5.50	-0.002132	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-2.90	-0.001124	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-1.80	-0.000698	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-8.20	-0.003160	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-10.30	-0.003969	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-7.20	-0.002775	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-7.70	-0.002967	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-6.70	-0.002582	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-6.40	-0.002466	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-7.70	-0.002967	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-10.60	-0.004085	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-7.60	-0.002912	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-1.70	-0.000651	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-2.70	-0.001034	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-2.70	-0.001034	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-1.20	-0.000460	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-4.80	-0.001839	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	0.80	0.000307	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-2.00	-0.000766	±2.5	PASS

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