



# Appendix B

## E-UTRA Band 38



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# 1 Effective (Isotropic) Radiated Power

## Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.31	23.94	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.12	23.75	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.12	23.75	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	22.36	22.99	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	22.40	23.03	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.38	23.01	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.39	23.02	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.20	23.83	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.28	23.91	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.23	23.86	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.33	22.96	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	22.39	23.02	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	22.32	22.95	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.29	22.92	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.98	23.61	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.88	23.51	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.68	23.31	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	22.10	22.73	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	22.03	22.66	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.93	22.56	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.06	22.69	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.14	22.77	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.16	22.79	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.17	22.80	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	21.36	21.99	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.38	22.01	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	21.44	22.07	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.64	22.27	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.07	22.70	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.22	22.85	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.20	22.83	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.35	21.98	33.00	PASS



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Band38	5MHz	16QAM	38000	12RB#6	21.37	22.00	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	21.24	21.87	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.44	22.07	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.83	22.46	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.53	22.16	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.66	22.29	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	21.02	21.65	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	21.08	21.71	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.98	21.61	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.17	21.80	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.29	21.92	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.03	21.66	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#24	21.05	21.68	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#0	20.31	20.94	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#6	20.35	20.98	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#13	20.34	20.97	33.00	PASS
Band38	5MHz	64QAM	37775	25RB#0	20.39	21.02	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.13	21.76	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.25	21.88	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.14	21.77	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#0	20.24	20.87	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#6	20.39	21.02	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#13	20.23	20.86	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.29	20.92	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	20.95	21.58	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	20.78	21.41	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	20.58	21.21	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#0	20.00	20.63	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#6	20.02	20.65	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#13	19.90	20.53	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	19.98	20.61	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.33	23.96	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.39	24.02	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.31	23.94	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.39	23.02	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	22.50	23.13	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.44	23.07	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.40	23.03	33.00	PASS



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Band38	10MHz	QPSK	38000	1RB#0	22.95	23.58	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.49	24.12	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.38	24.01	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.31	22.94	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	22.46	23.09	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.42	23.05	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.42	23.05	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.06	23.69	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.03	23.66	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.91	23.54	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	22.19	22.82	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	22.01	22.64	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.96	22.59	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.99	22.62	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.29	22.92	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.28	22.91	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.30	22.93	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.70	22.33	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.68	22.31	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.74	22.37	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.50	22.13	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.18	22.81	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.22	22.85	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.14	22.77	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.37	22.00	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.41	22.04	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.32	21.95	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.42	22.05	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.04	22.67	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.96	22.59	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.52	22.15	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	21.04	21.67	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	21.05	21.68	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.00	21.63	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.04	21.67	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.31	21.94	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.38	22.01	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	21.23	21.86	33.00	PASS



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Band38	10MHz	64QAM	37800	25RB#0	20.39	21.02	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#12	20.44	21.07	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#25	20.37	21.00	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	20.38	21.01	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	20.89	21.52	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	21.46	22.09	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.33	21.96	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#0	20.30	20.93	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#12	20.36	20.99	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#25	20.37	21.00	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.42	21.05	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	20.98	21.61	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	20.98	21.61	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.82	21.45	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#0	20.14	20.77	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#12	20.00	20.63	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#25	19.94	20.57	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	19.93	20.56	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.35	23.98	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.31	23.94	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.49	24.12	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#0	22.44	23.07	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#18	22.51	23.14	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#37	22.64	23.27	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.53	23.16	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.20	23.83	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.45	24.08	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.43	24.06	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#0	22.45	23.08	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#18	22.51	23.14	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#37	22.50	23.13	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.45	23.08	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.17	23.80	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.97	23.60	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.84	23.47	33.00	PASS
Band38	15MHz	QPSK	38175	38RB#0	22.35	22.98	33.00	PASS
Band38	15MHz	QPSK	38175	38RB#18	22.22	22.85	33.00	PASS
Band38	15MHz	QPSK	38175	38RB#37	22.03	22.66	33.00	PASS



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Band38	15MHz	QPSK	38175	75RB#0	22.25	22.88	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.28	22.91	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.00	22.63	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.40	23.03	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.54	22.17	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#18	21.50	22.13	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#37	21.56	22.19	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.52	22.15	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.44	23.07	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.29	22.92	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.05	22.68	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#0	21.32	21.95	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#18	21.41	22.04	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#37	21.38	22.01	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.45	22.08	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.24	22.87	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.90	22.53	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.57	22.20	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#0	21.29	21.92	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#18	21.19	21.82	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#37	21.01	21.64	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.25	21.88	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.32	21.95	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	21.29	21.92	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.47	22.10	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#0	20.37	21.00	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#18	20.44	21.07	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#37	20.56	21.19	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.45	21.08	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	21.12	21.75	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.35	21.98	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.34	21.97	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#0	20.42	21.05	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#18	20.45	21.08	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#37	20.48	21.11	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.42	21.05	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.14	21.77	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	20.94	21.57	33.00	PASS



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Band38	15MHz	64QAM	38175	1RB#74	20.77	21.40	33.00	PASS
Band38	15MHz	64QAM	38175	38RB#0	20.34	20.97	33.00	PASS
Band38	15MHz	64QAM	38175	38RB#18	20.13	20.76	33.00	PASS
Band38	15MHz	64QAM	38175	38RB#37	19.99	20.62	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.19	20.82	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.62	24.25	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.64	24.27	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.67	24.30	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.71	23.34	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	22.94	23.57	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.87	23.50	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.78	23.41	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.65	24.28	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.81	24.44	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.74	24.37	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.75	23.38	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.79	23.42	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.74	23.37	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.71	23.34	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.55	24.18	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.58	24.21	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.95	23.58	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.74	23.37	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.58	23.21	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.42	23.05	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.53	23.16	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.58	23.21	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.56	23.19	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.15	22.78	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.77	22.40	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.87	22.50	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.92	22.55	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.80	22.43	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.49	23.12	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.62	23.25	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.53	23.16	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.62	22.25	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.64	22.27	33.00	PASS



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Band38	20MHz	16QAM	38000	50RB#50	21.75	22.38	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.77	22.40	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.21	22.84	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.09	22.72	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.36	21.99	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.63	22.26	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.46	22.09	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.27	21.90	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.53	22.16	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.55	22.18	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.62	22.25	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.64	22.27	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#0	20.70	21.33	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#25	20.90	21.53	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#50	20.86	21.49	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.74	21.37	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.56	22.19	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.75	22.38	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.71	22.34	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#0	20.75	21.38	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#25	20.79	21.42	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#50	20.71	21.34	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.63	21.26	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	21.47	22.10	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	21.54	22.17	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	20.93	21.56	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#0	20.64	21.27	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#25	20.55	21.18	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#50	20.42	21.05	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.45	21.08	33.00	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



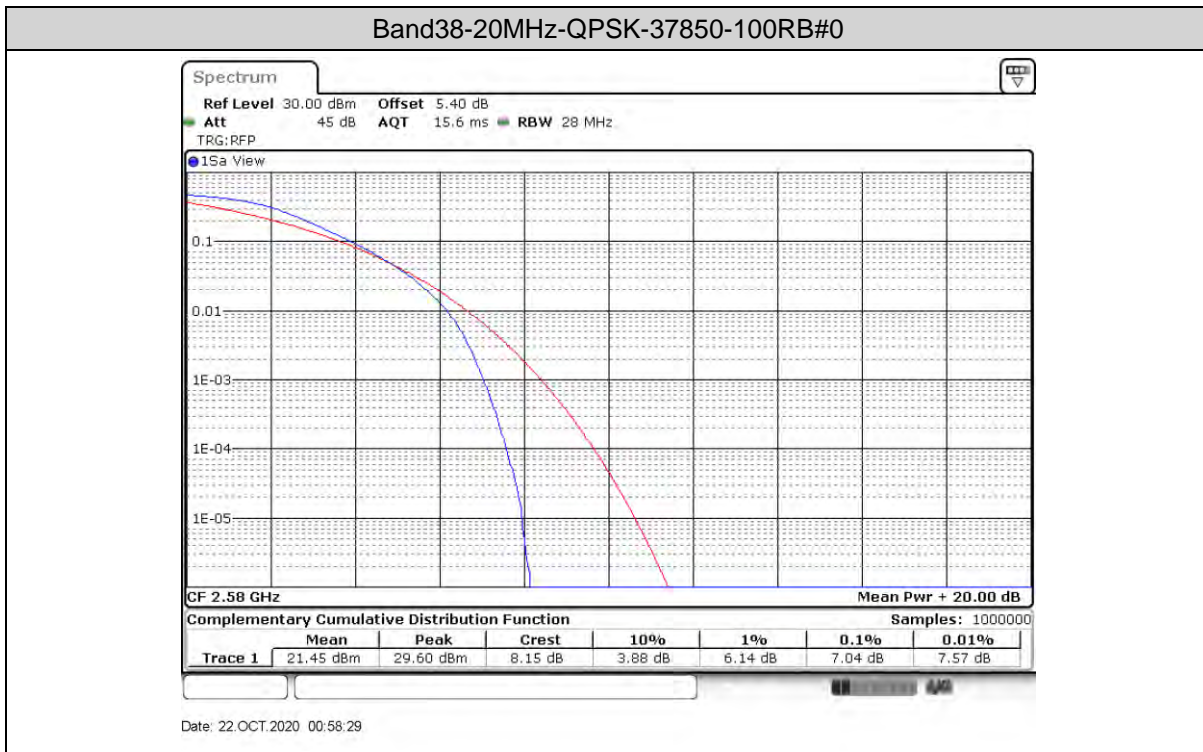
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## 2 Peak-to-Average Ratio (CCDF)

### 2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	7.04	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.04	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	6.96	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	7.91	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	7.91	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	7.83	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.41	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	8.41	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	8.38	13	PASS

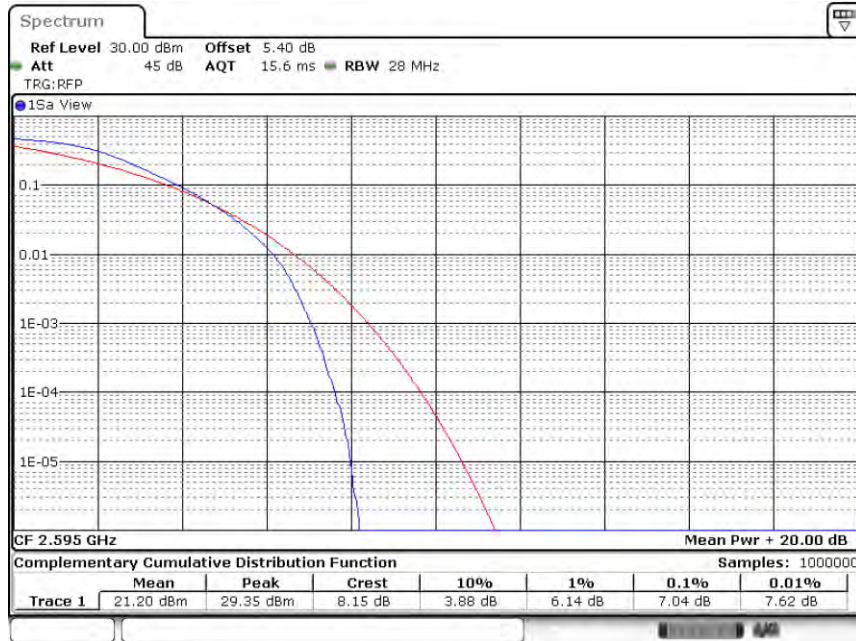
### 2.2 Test Plots



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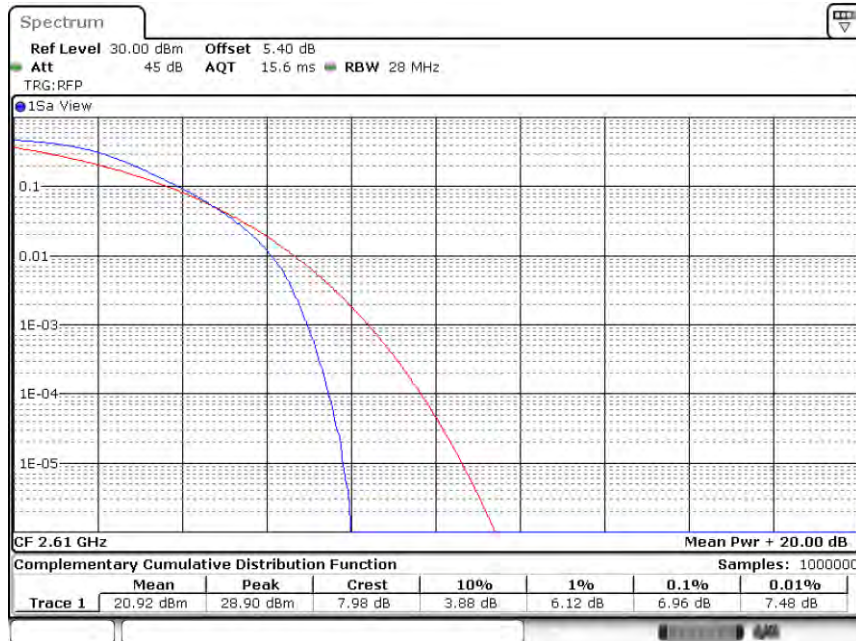
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**Band38-20MHz-QPSK-38000-100RB#0**



Date: 22.OCT.2020 00:58:58

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

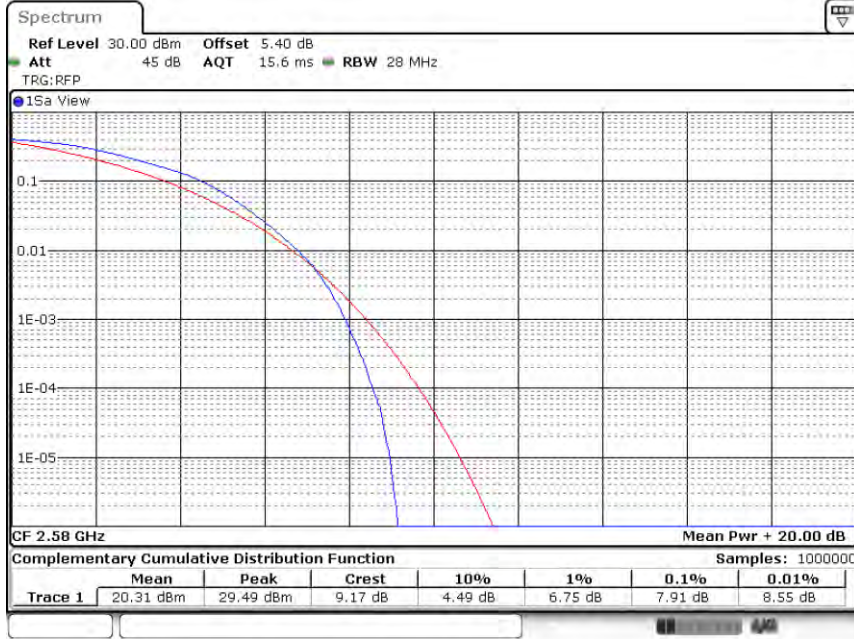


Date: 22.OCT.2020 00:59:27



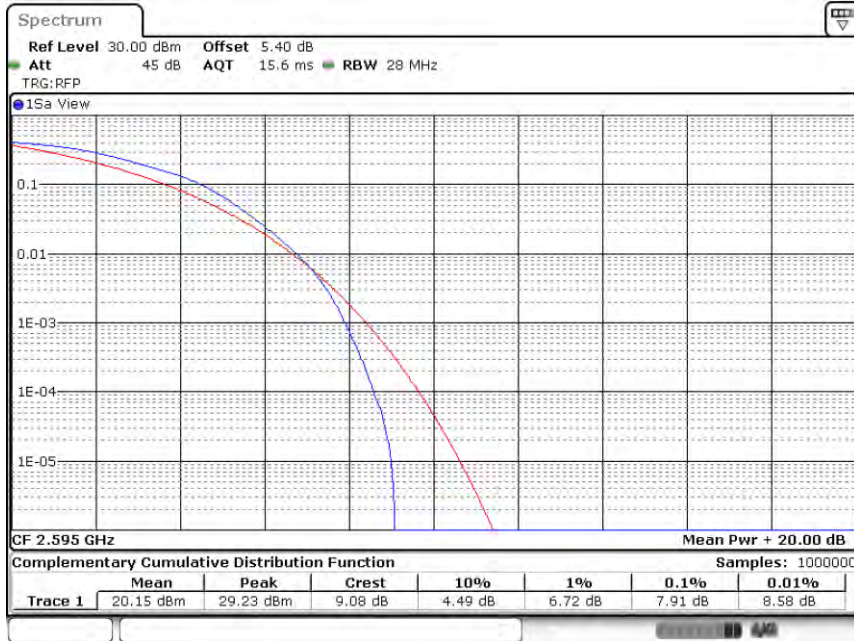
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**Band38-20MHz-16QAM-37850-100RB#0**



Date: 22.OCT.2020 00:58:43

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

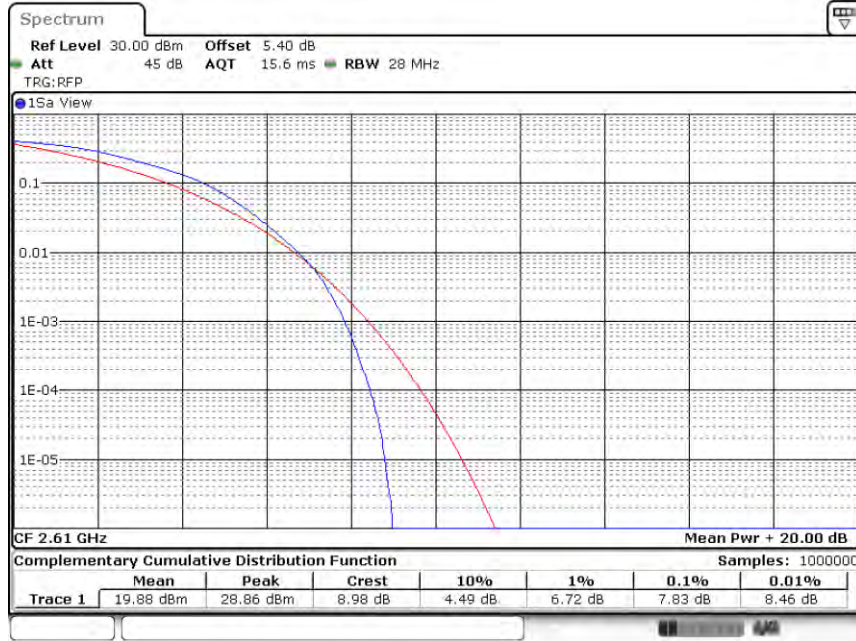


Date: 22.OCT.2020 00:59:12



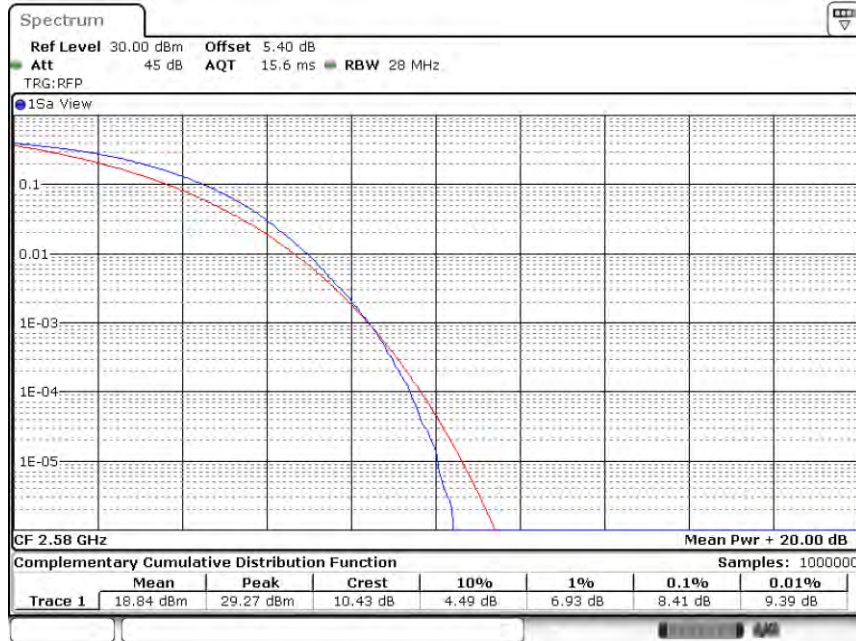
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**Band38-20MHz-16QAM-38150-100RB#0**



Date: 22.OCT.2020 00:59:41

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

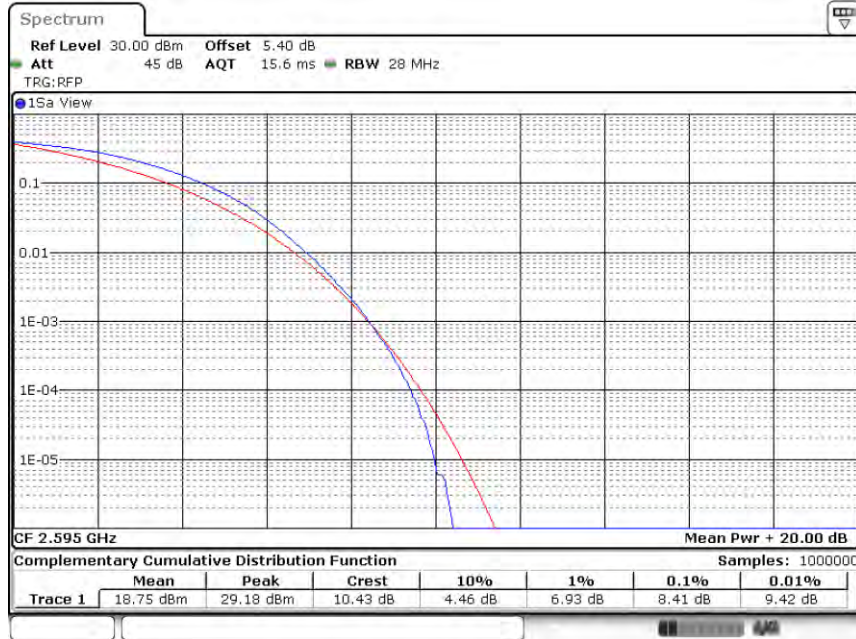


Date: 22.OCT.2020 11:57:38



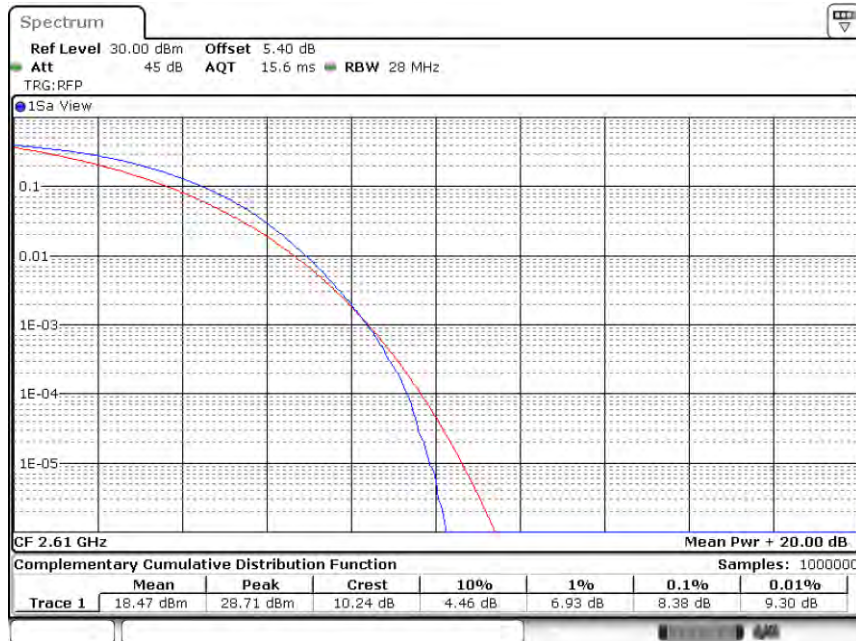
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**Band38-20MHz-64QAM-38000-100RB#0**



Date: 22.OCT.2020 11:57:52

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



Date: 22.OCT.2020 11:58:07



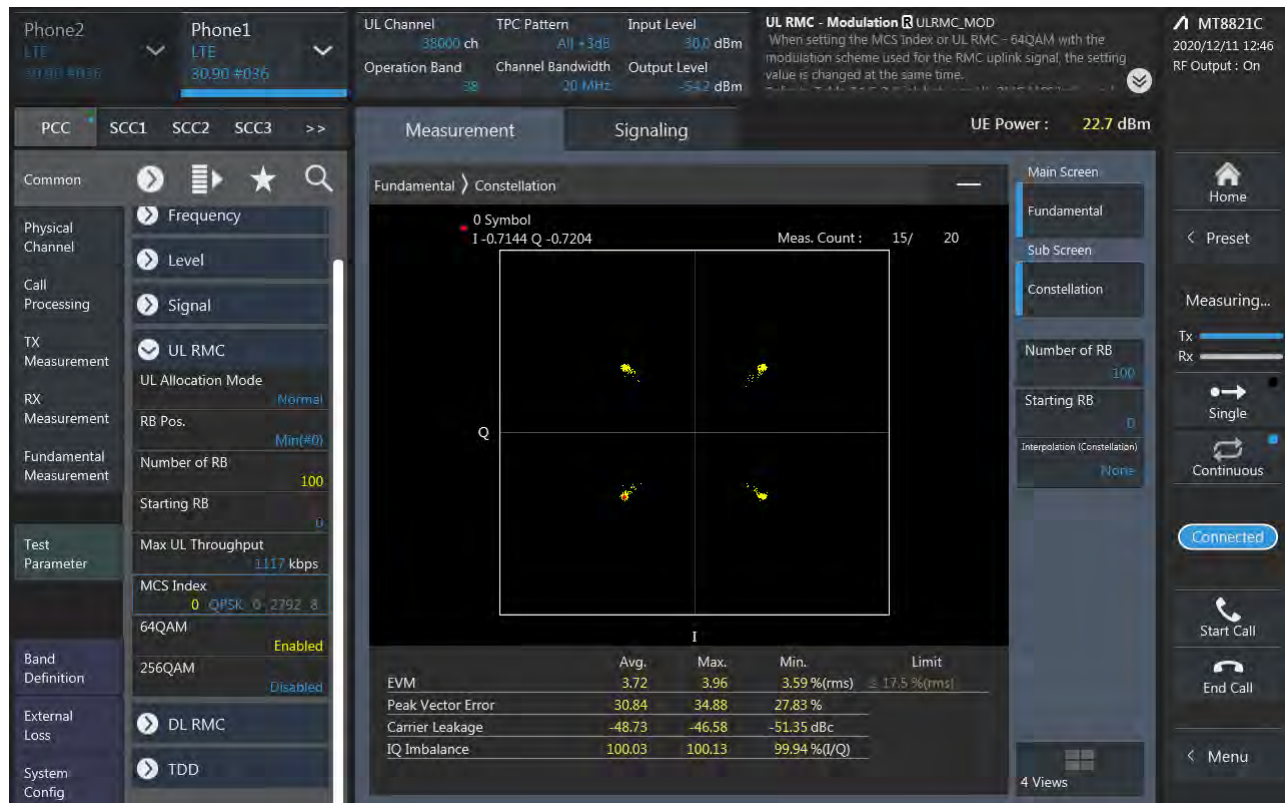
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### 3 Modulation Characteristics

#### 3.1 Test Mode = LTE /TM1 20MHz

##### 3.1.1 Test Channel = MCH



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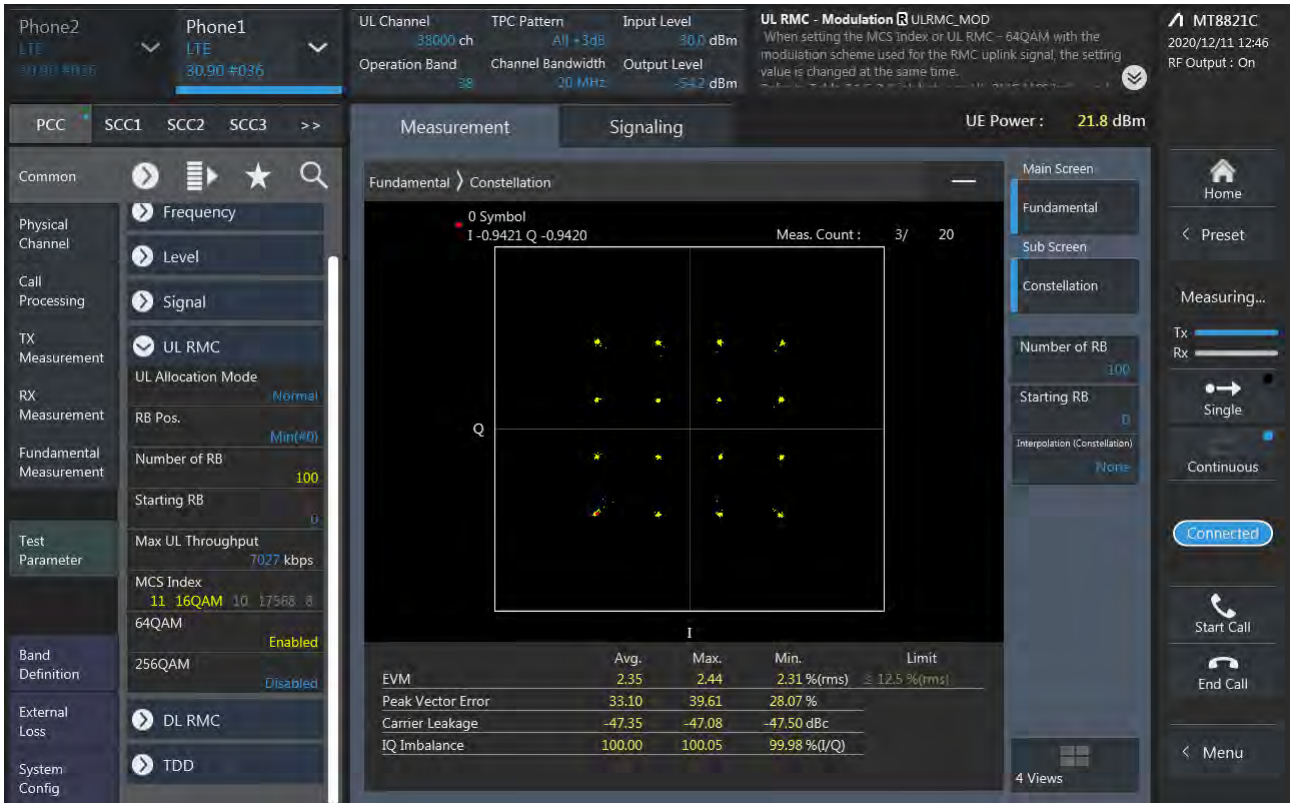
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### 3.2 Test Mode = LTE /TM2 20MHz

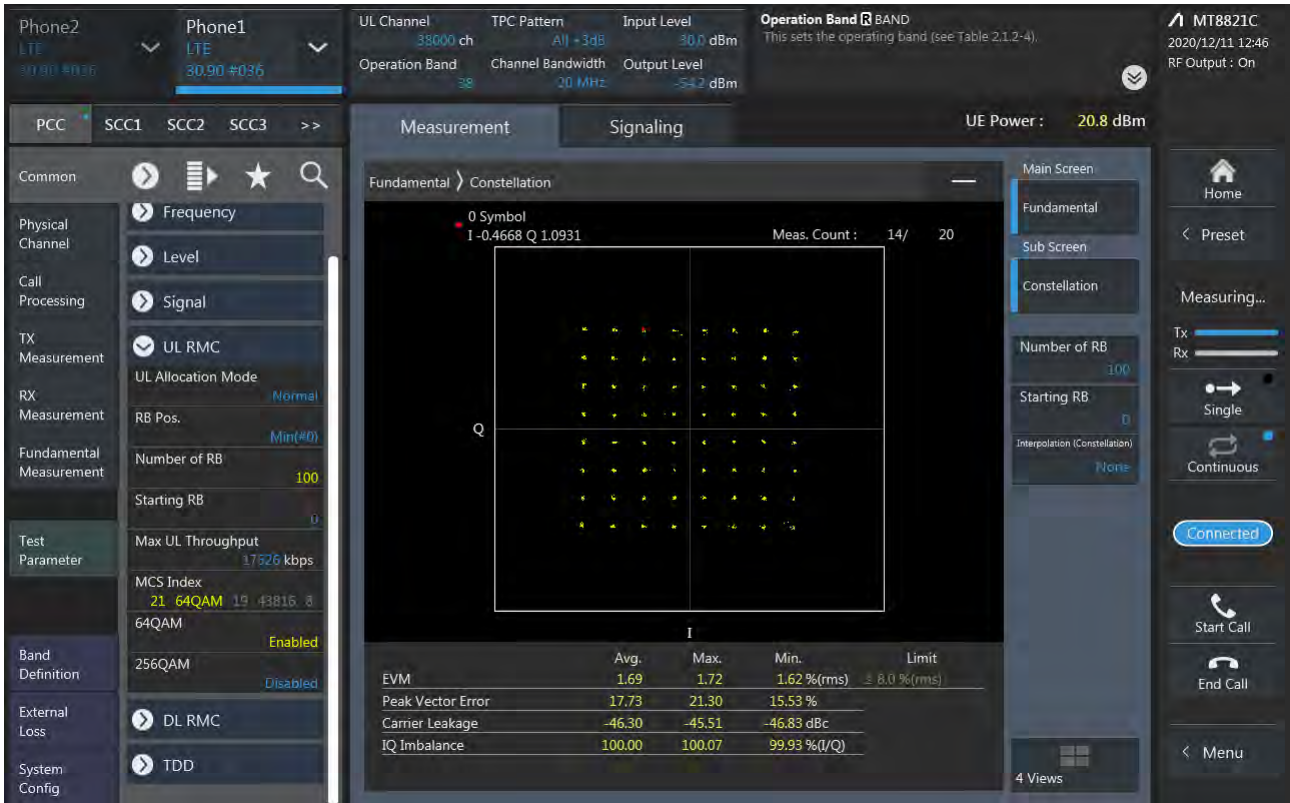
#### 3.2.1 Test Channel = MCH





### 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	4.476	4.920	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.466	4.900	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.476	4.980	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.496	4.950	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	4.960	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.496	4.970	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.486	4.940	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.486	4.910	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.486	5.110	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.891	9.740	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.891	9.720	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	10.160	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.620	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.931	9.620	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.680	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.931	9.740	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.911	9.740	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.911	9.760	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.487	15.570	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.516	15.630	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.546	22.380	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.457	15.390	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.457	15.420	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.546	22.260	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.457	15.270	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.457	15.210	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.487	23.850	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.902	20.000	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.902	19.600	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.902	19.840	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.862	19.320	PASS



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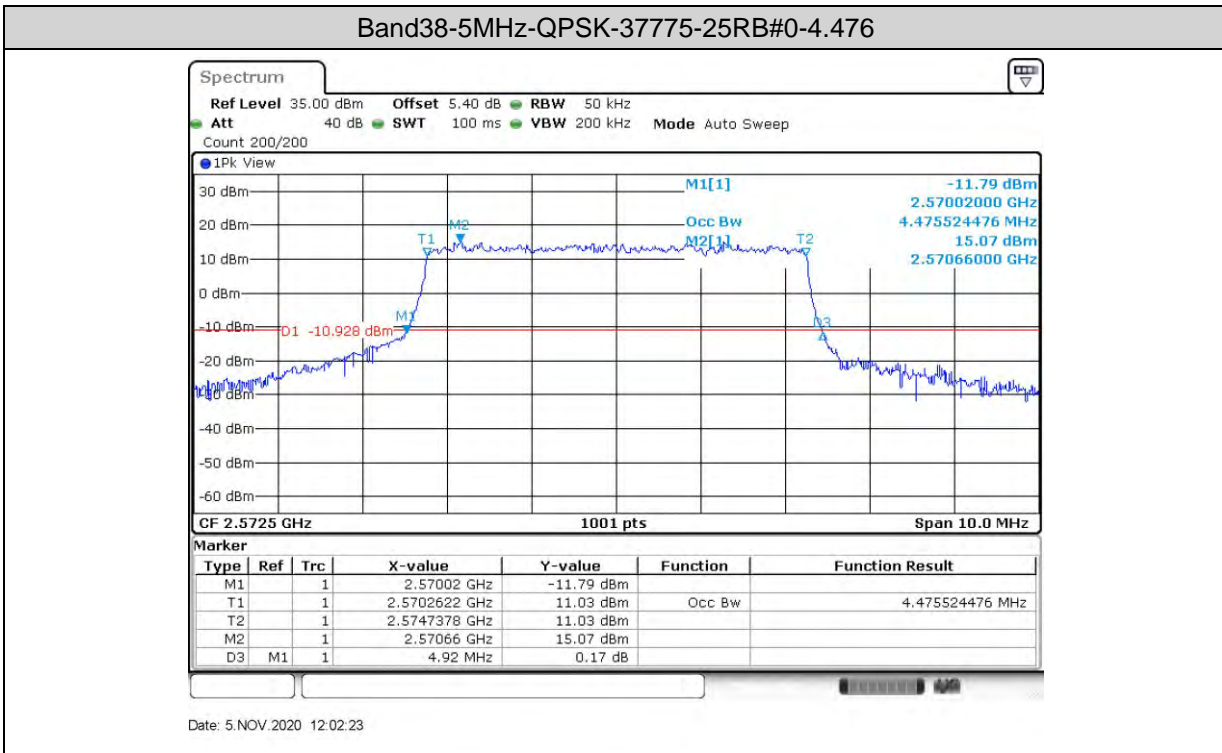
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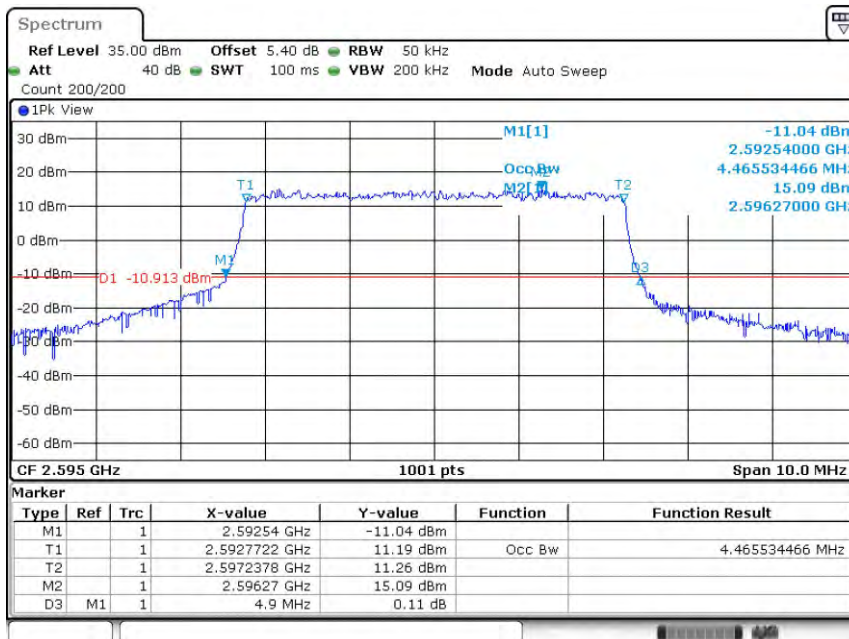
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Band38	20MHz	16QAM	38150	100RB#0	17.862	19.400	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.902	19.320	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.862	19.360	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.862	19.360	PASS

## 4.2 Test Plots



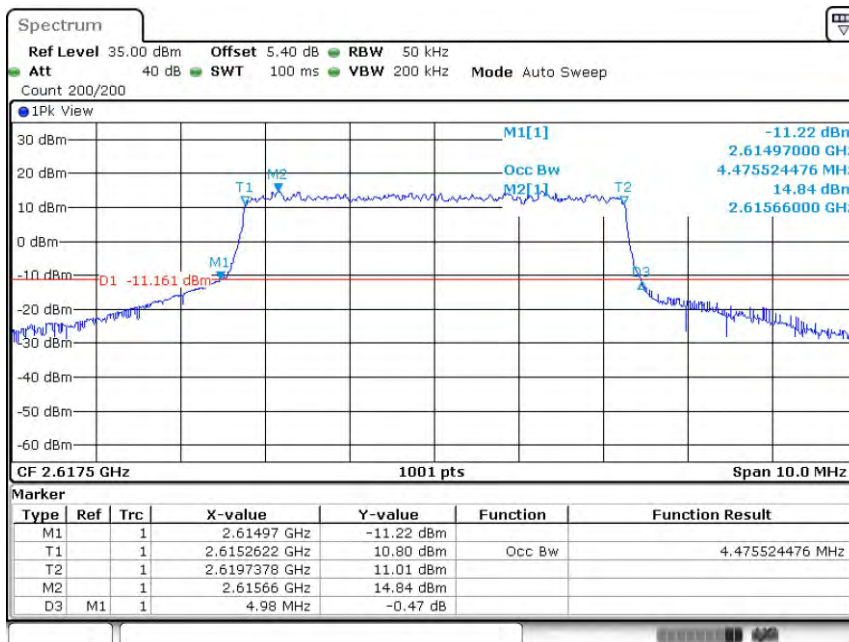
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**Band38-5MHz-QPSK-38000-25RB#0-4.466**



Date: 5.NOV.2020 12:03:33

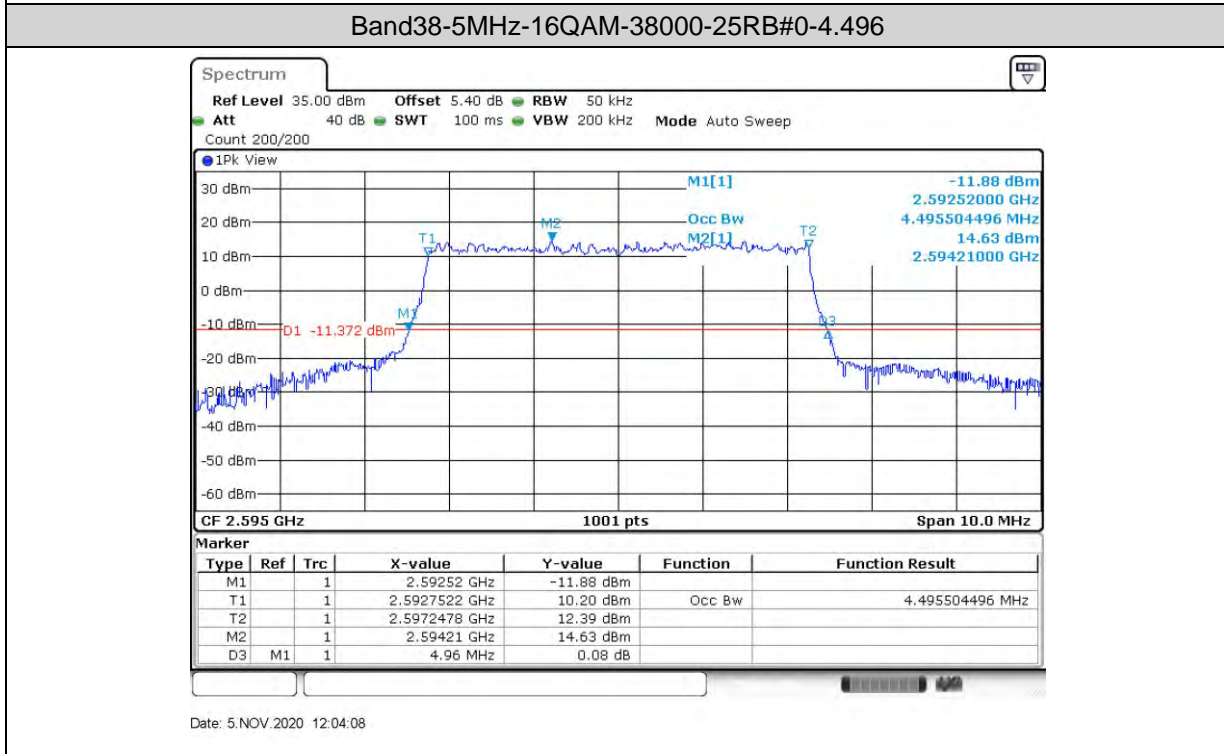
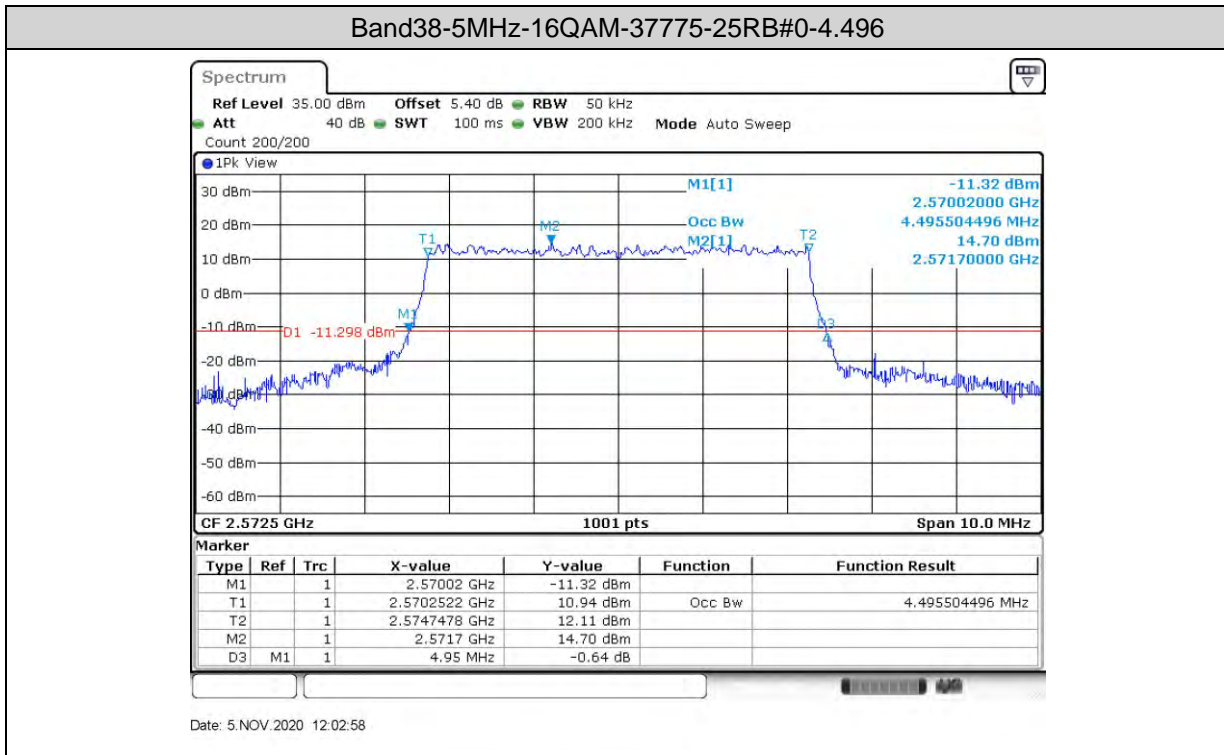
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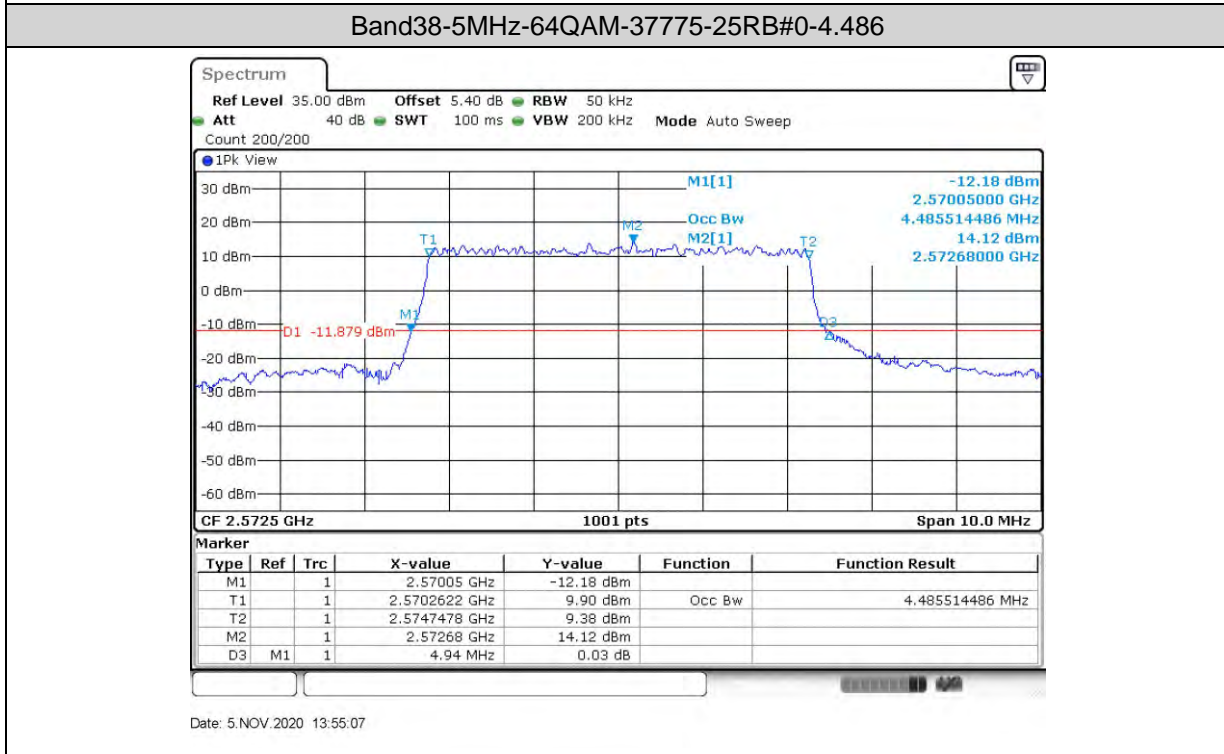
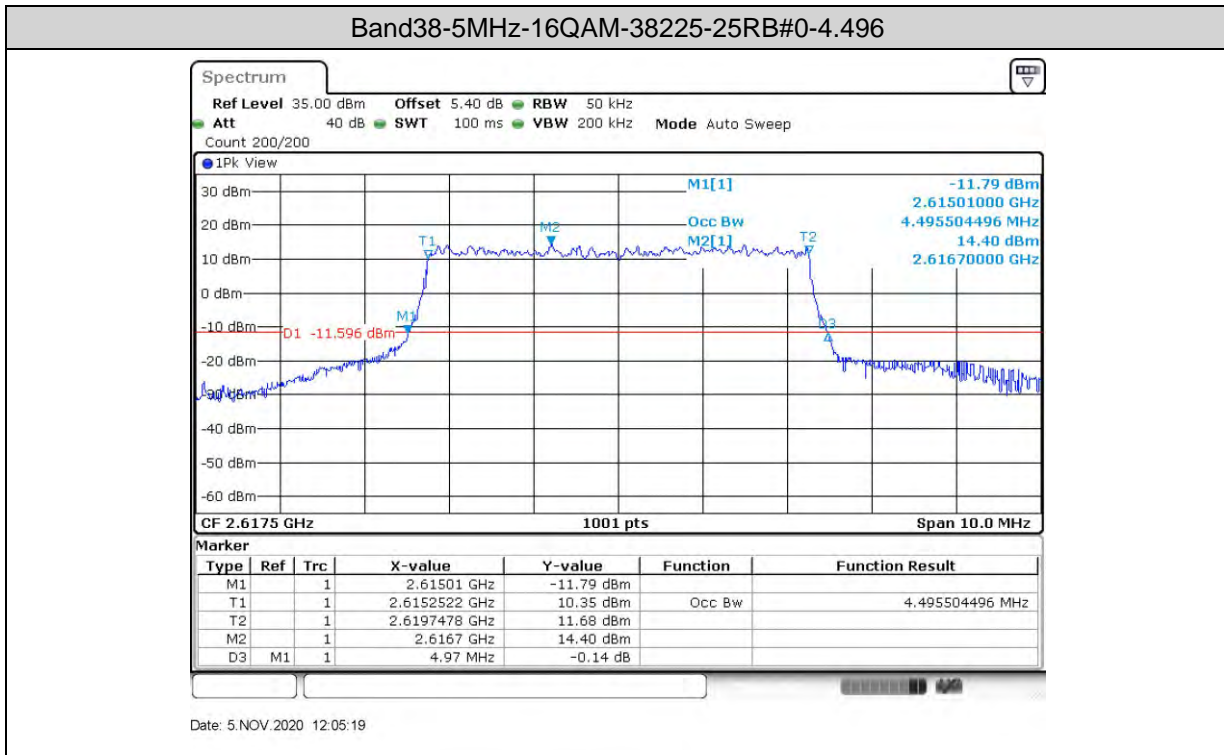
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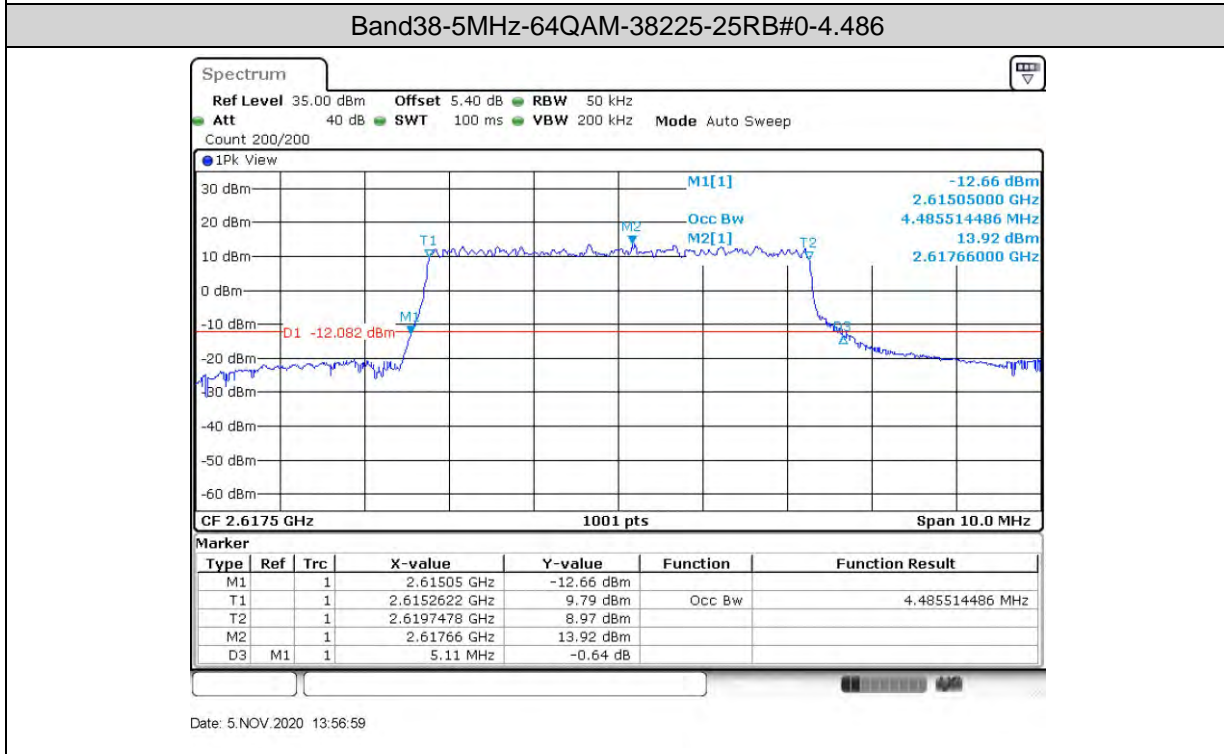
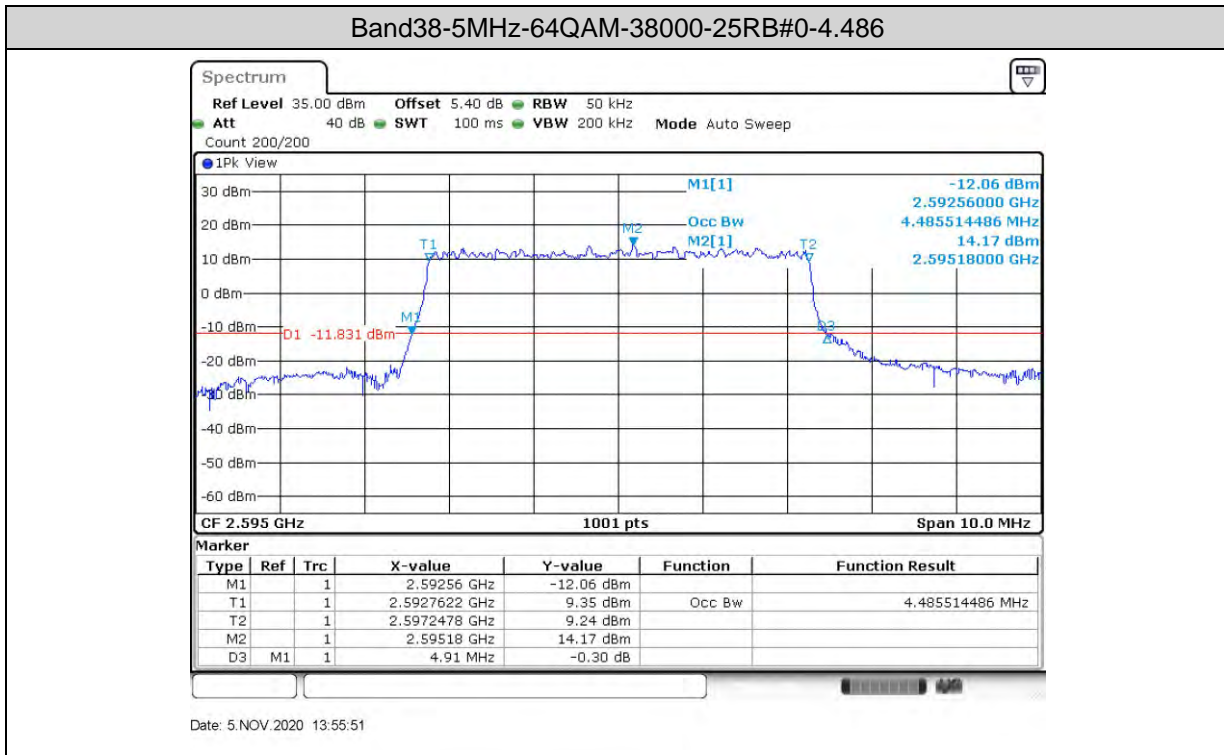
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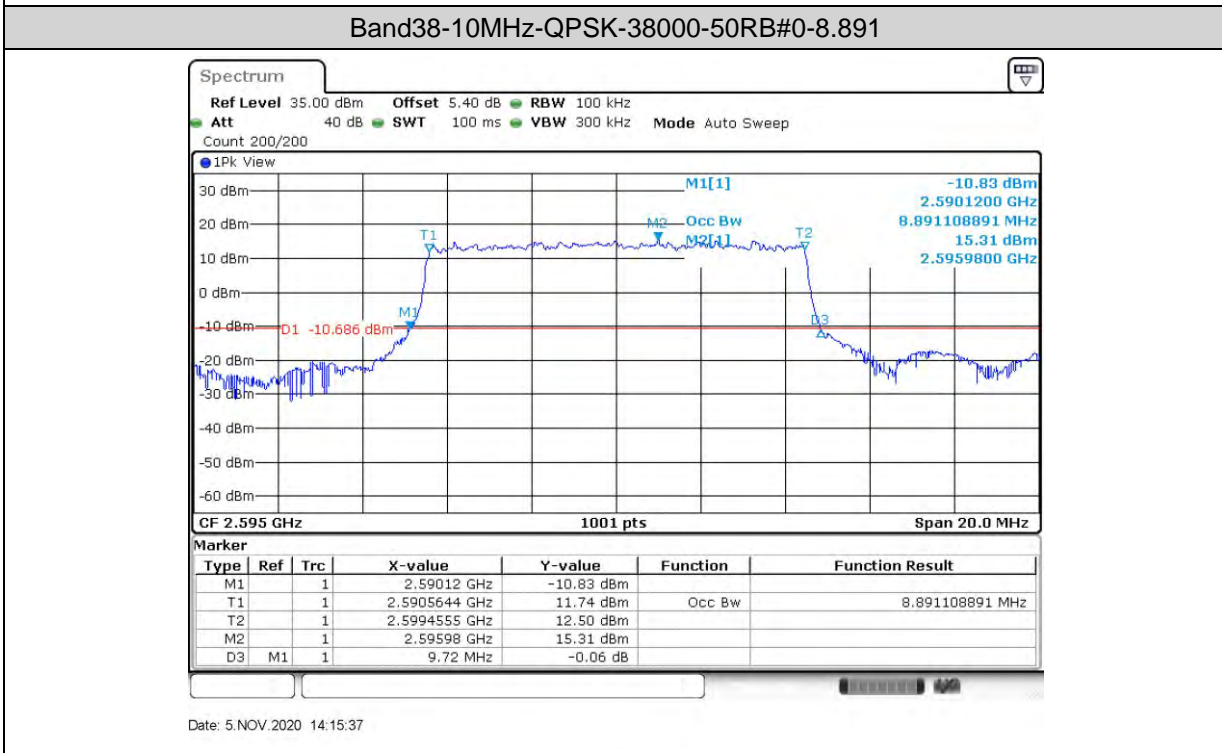
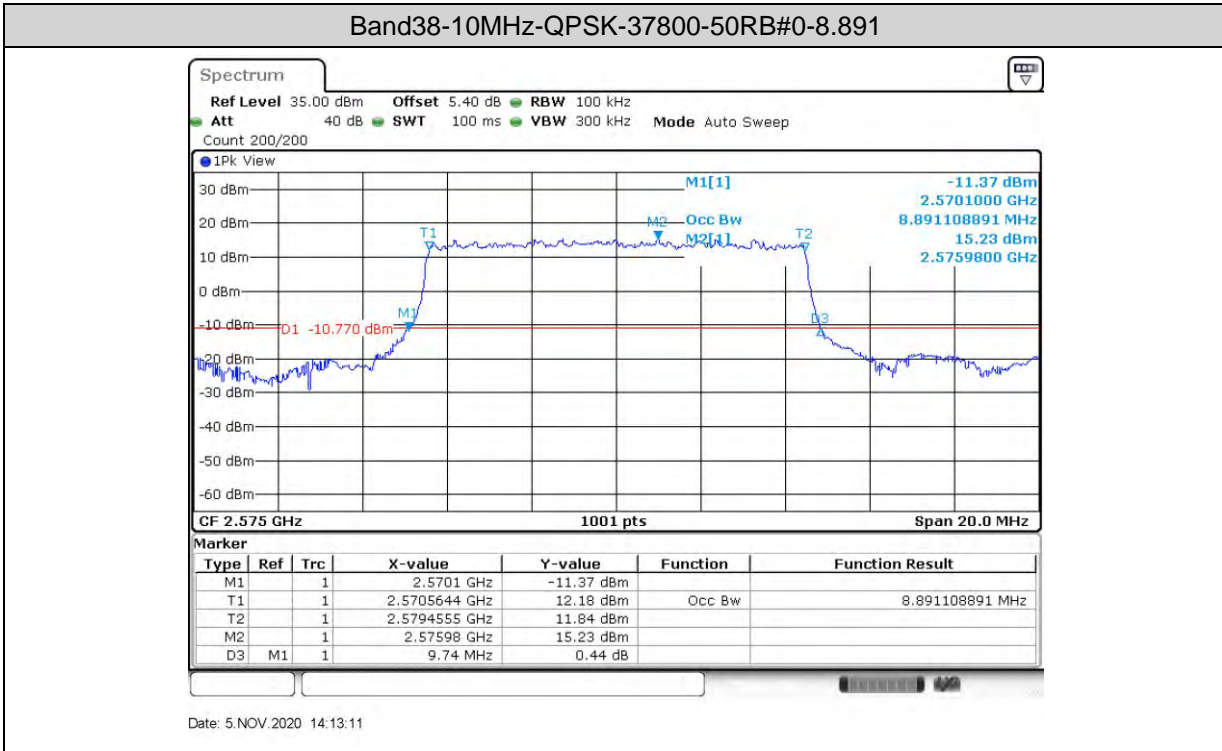


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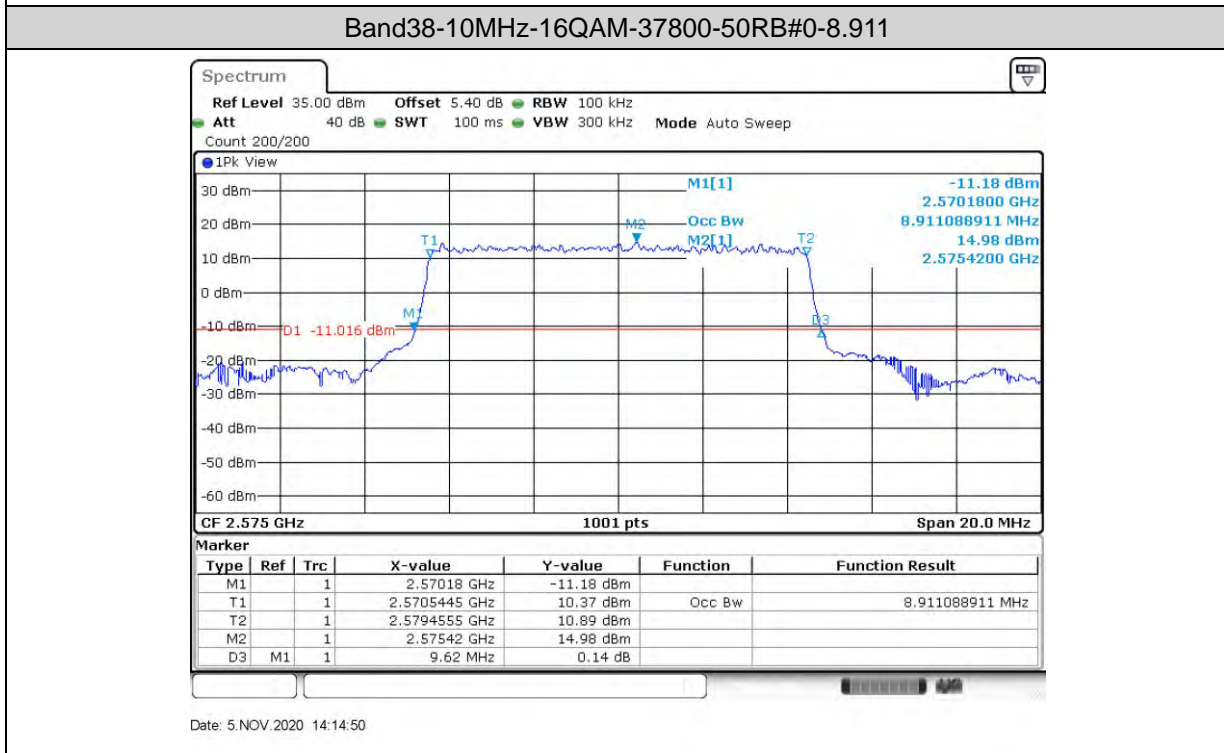
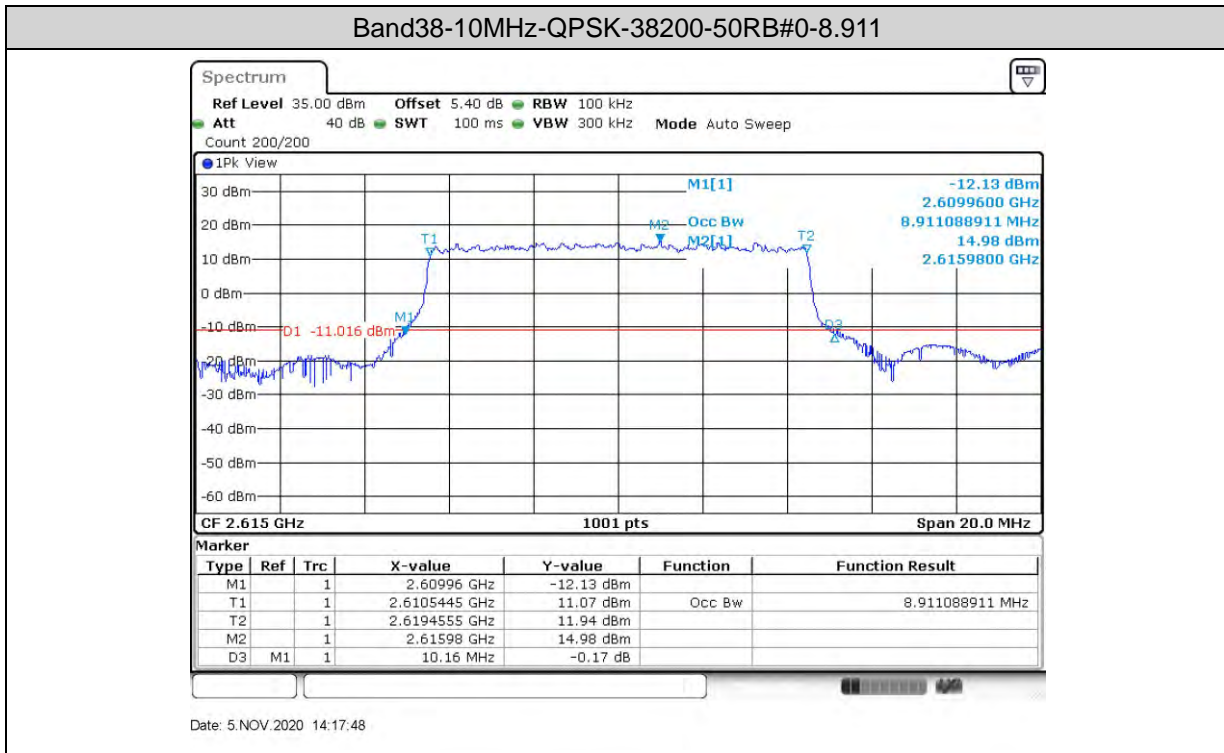




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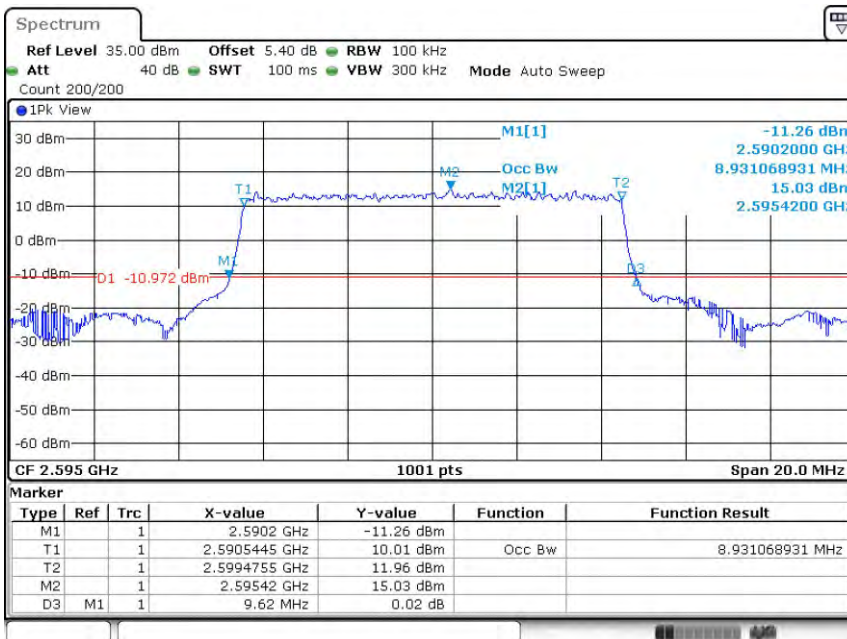
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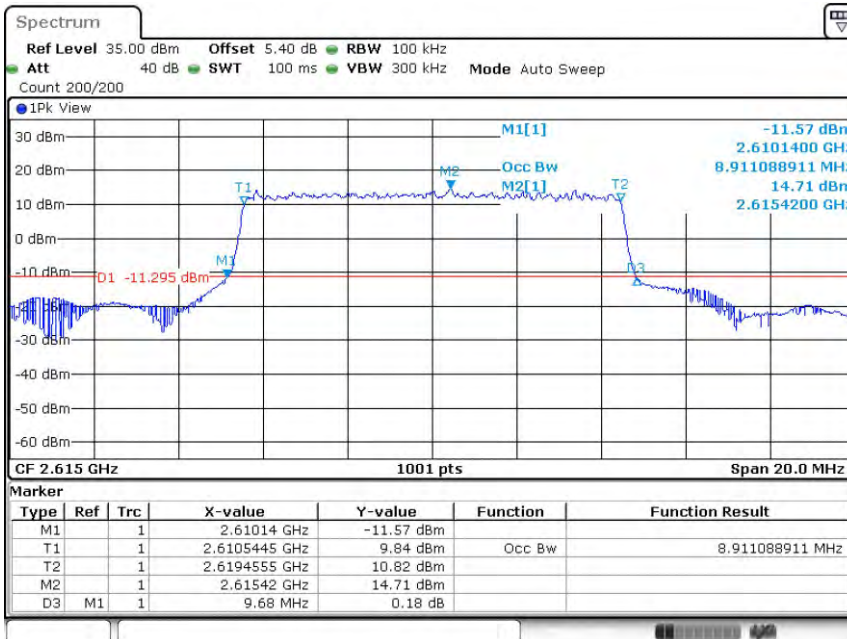
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**Band38-10MHz-16QAM-38000-50RB#0-8.931**



Date: 5.NOV.2020 14:16:53

**Band38-10MHz-16QAM-38200-50RB#0-8.911**

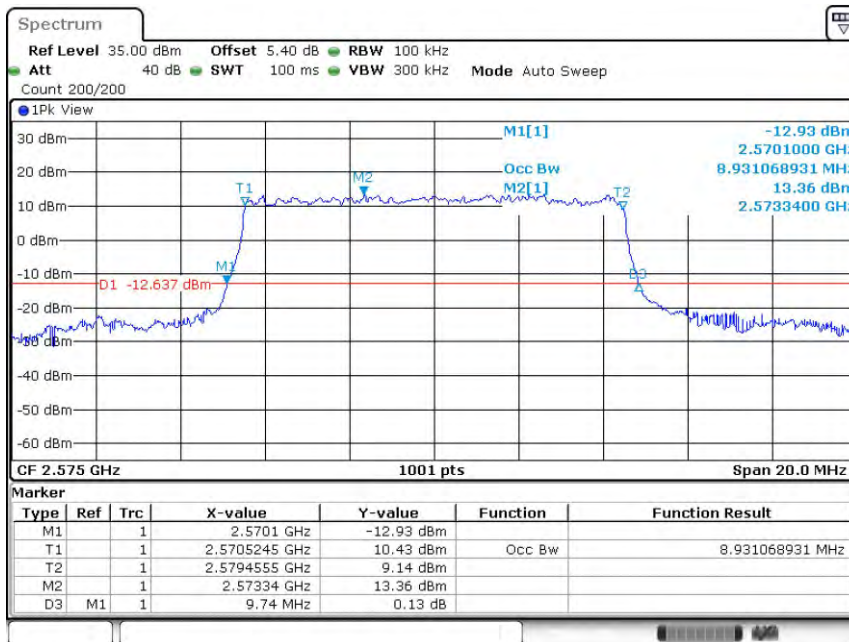


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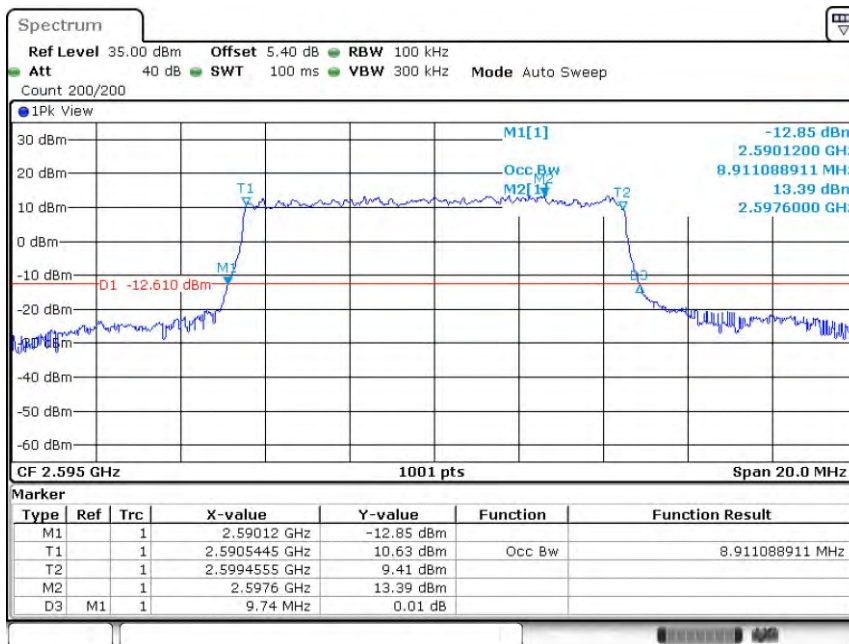
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**Band38-10MHz-64QAM-37800-50RB#0-8.931**



Date: 5.NOV.2020 14:00:28

**Band38-10MHz-64QAM-38000-50RB#0-8.911**

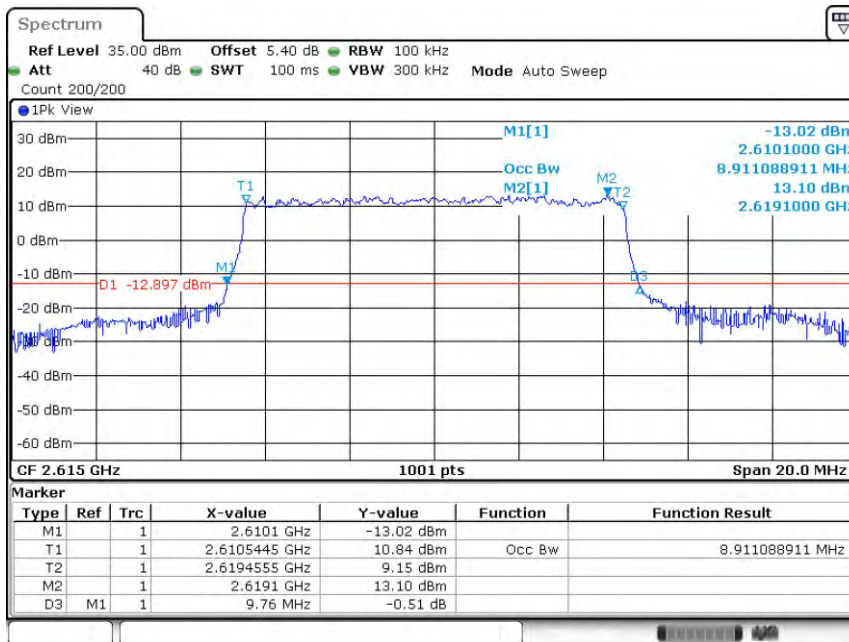


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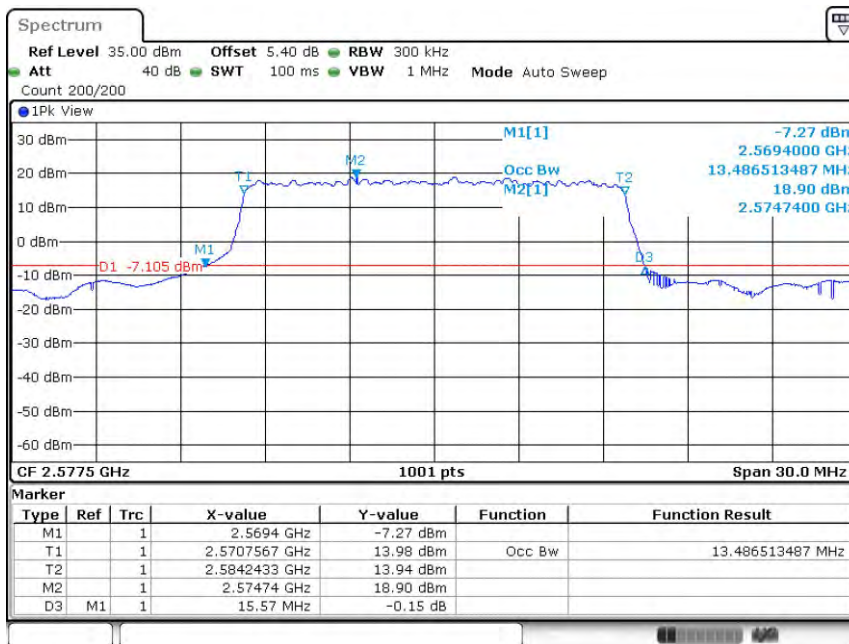
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**Band38-10MHz-64QAM-38200-50RB#0-8.911**



Date: 5.NOV.2020 14:02:12

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



Date: 5.NOV.2020 14:22:09

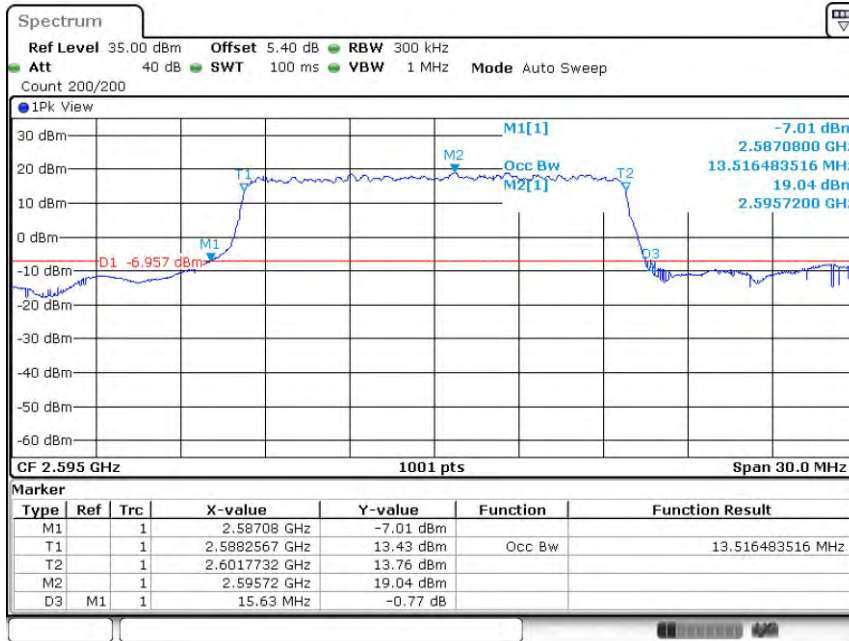


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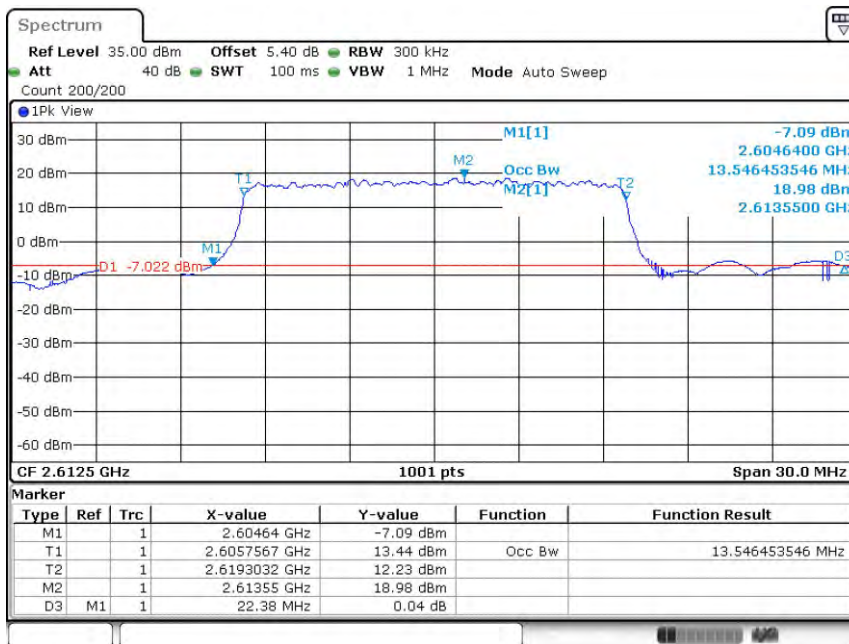
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**Band38-15MHz-QPSK-38000-75RB#0-13.516**



Date: 5.NOV.2020 14:29:16

**Band38-15MHz-QPSK-38175-75RB#0-13.546**

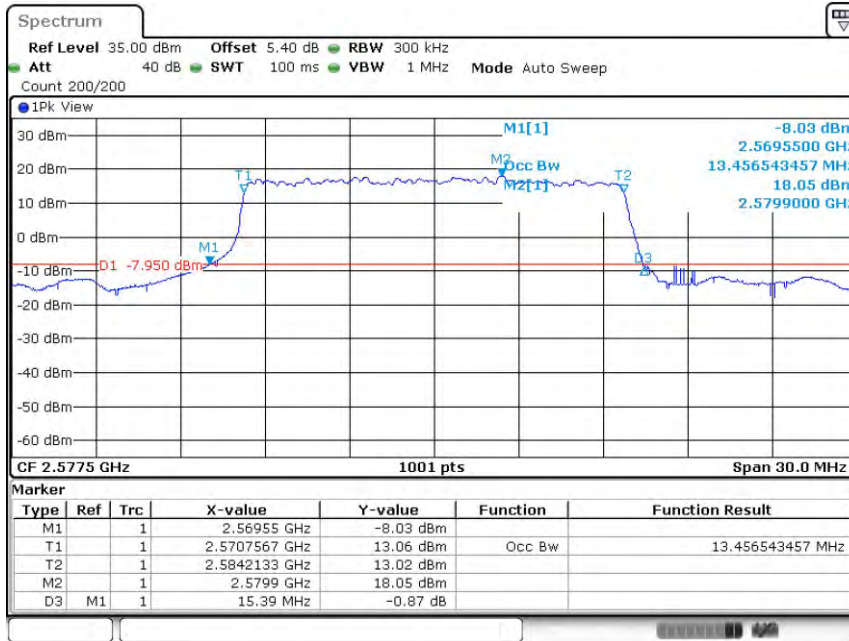


Date: 5.NOV.2020 14:32:44



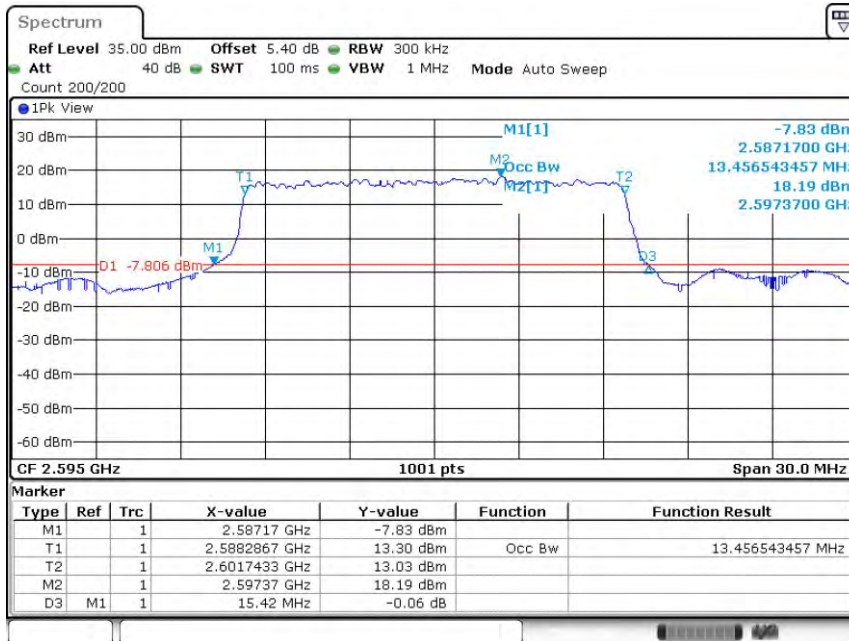
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**Band38-15MHz-16QAM-37825-75RB#0-13.457**



Date: 5.NOV.2020 14:23:38

**Band38-15MHz-16QAM-38000-75RB#0-13.457**

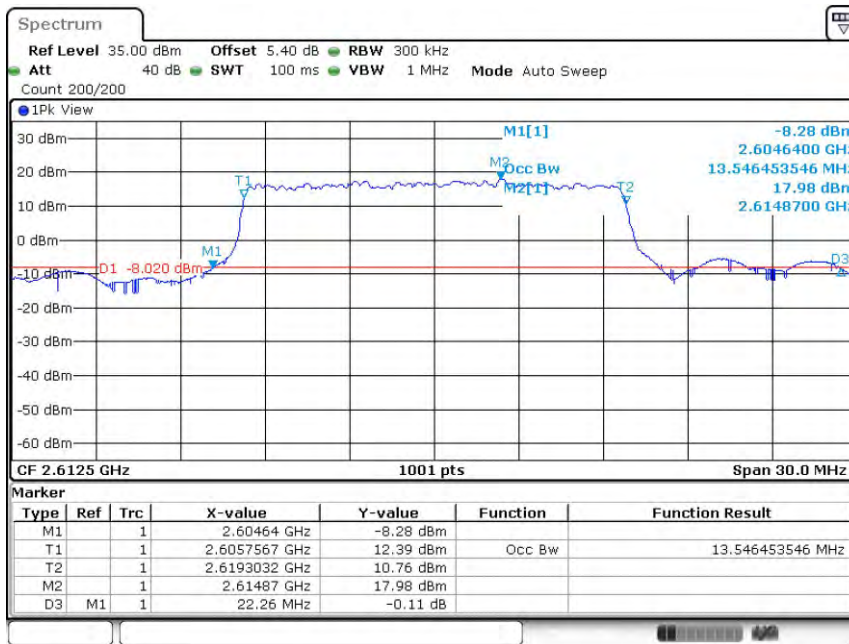


Date: 5.NOV.2020 14:30:28



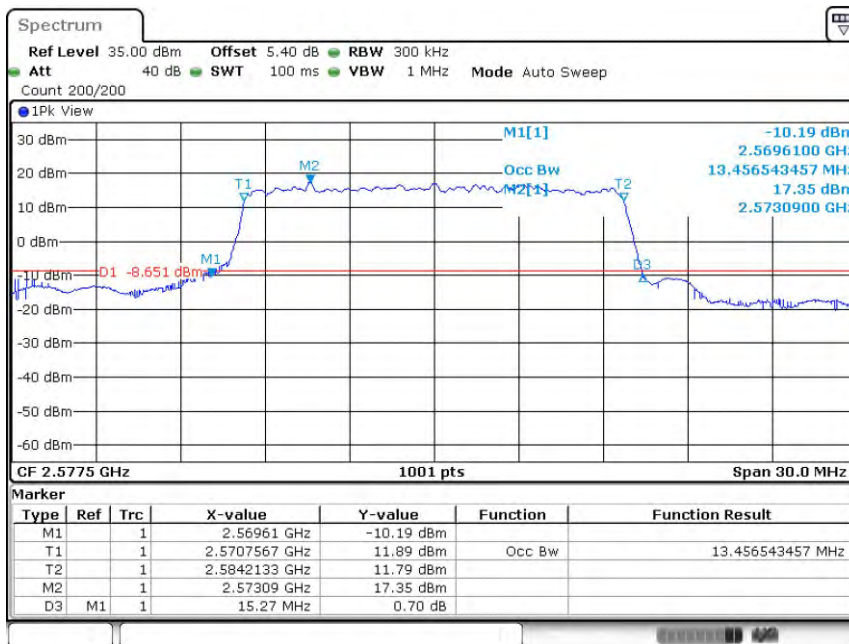
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**Band38-15MHz-16QAM-38175-75RB#0-13.546**



Date: 5.NOV.2020 14:34:09

**Band38-15MHz-64QAM-37825-75RB#0-13.457**



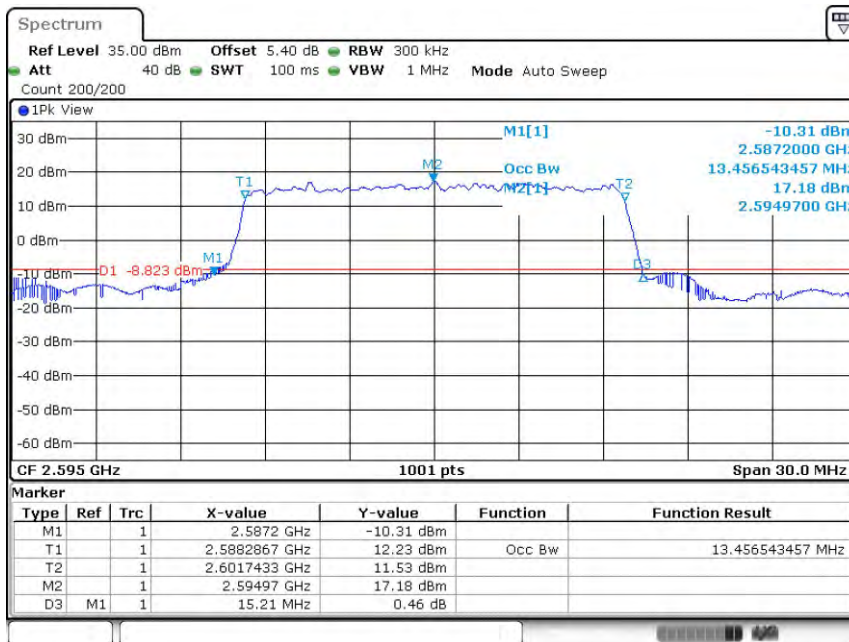
Date: 5.NOV.2020 14:05:16



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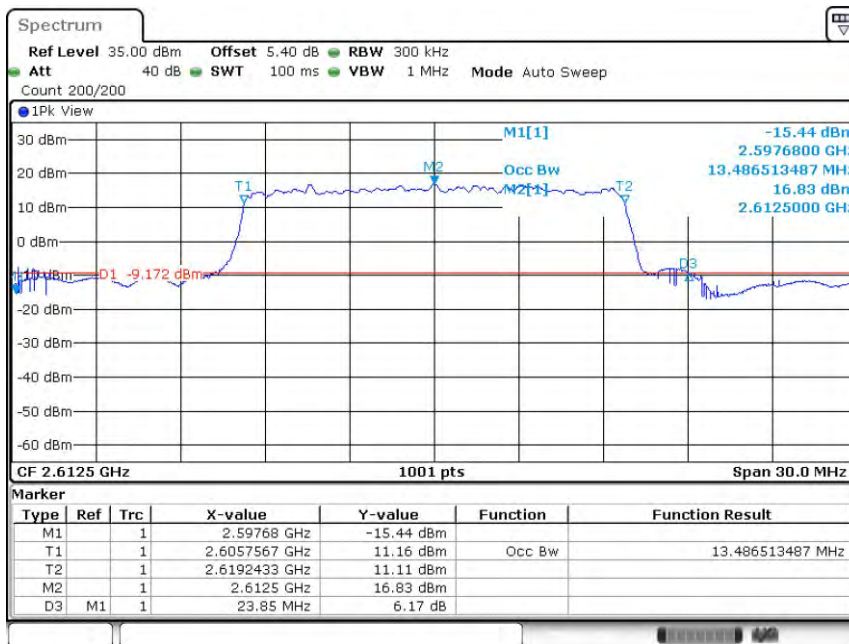


**Band38-15MHz-64QAM-38000-75RB#0-13.457**



Date: 5.NOV.2020 14:06:41

**Band38-15MHz-64QAM-38175-75RB#0-13.487**

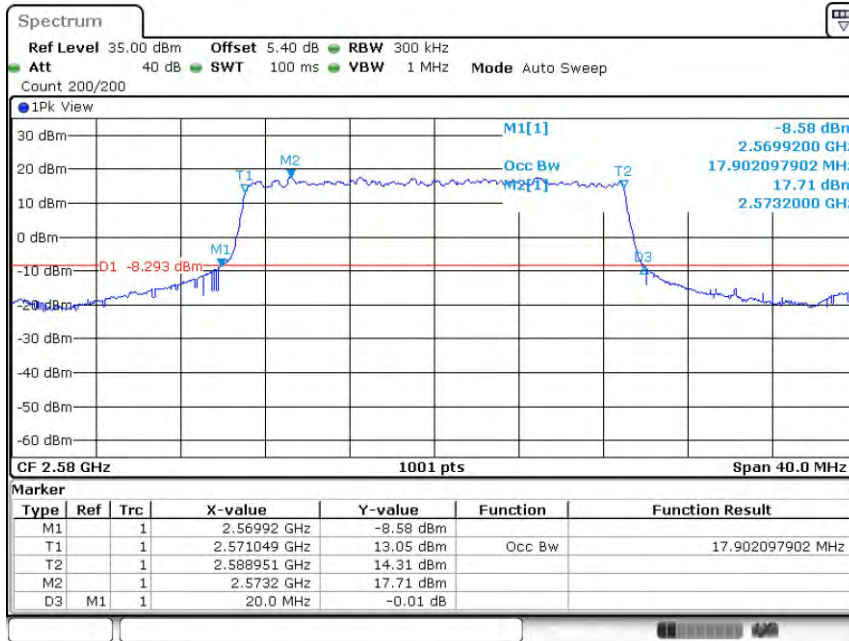


Date: 5.NOV.2020 14:08:59



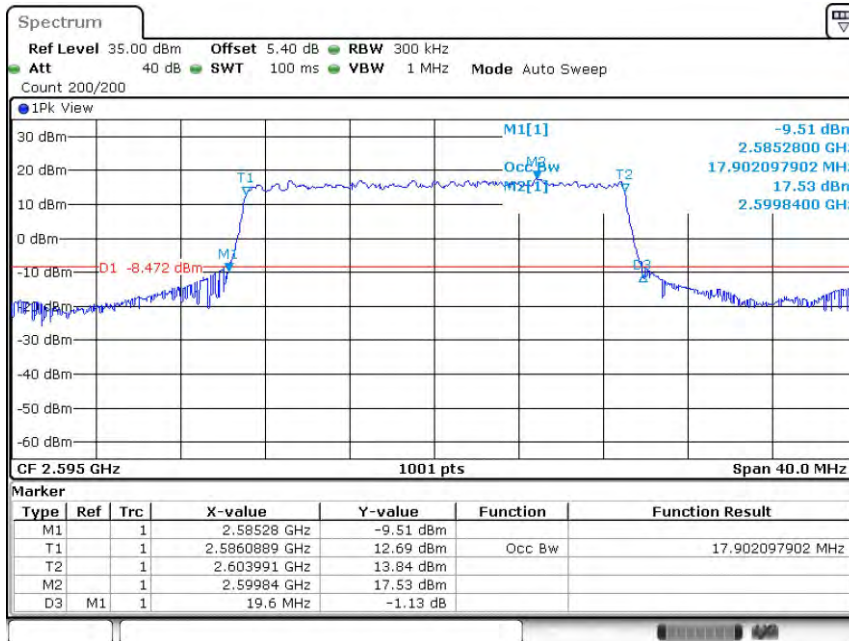
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**Band38-20MHz-QPSK-37850-100RB#0-17.902**



Date: 5.NOV.2020 14:35:20

**Band38-20MHz-QPSK-38000-100RB#0-17.902**

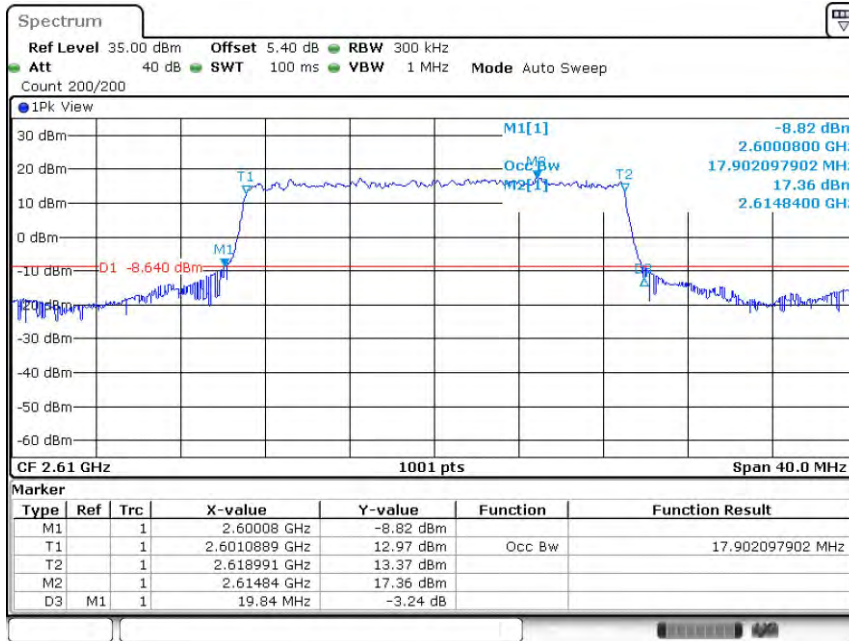


Date: 5.NOV.2020 12:14:22



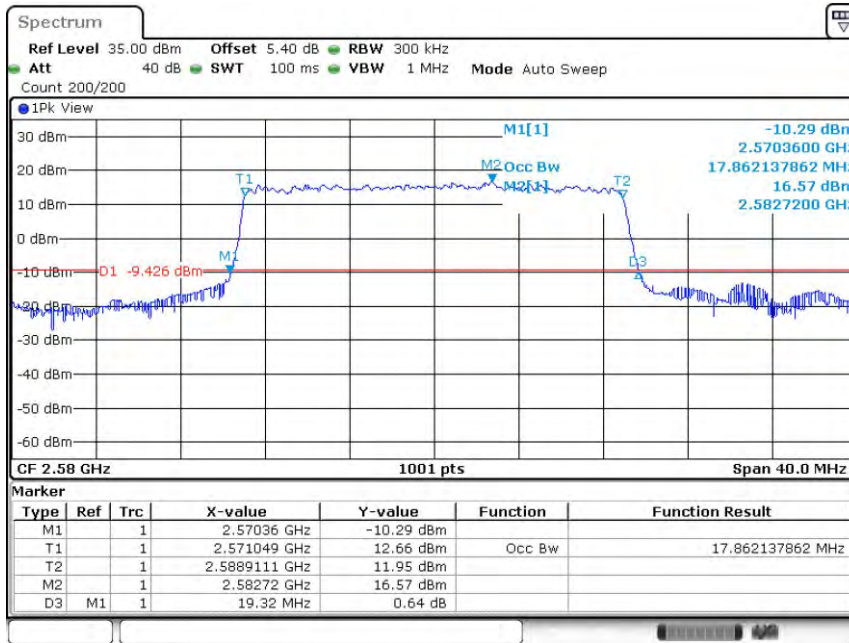
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**Band38-20MHz-QPSK-38150-100RB#0-17.902**



Date: 5.NOV.2020 12:15:32

**Band38-20MHz-16QAM-37850-100RB#0-17.862**

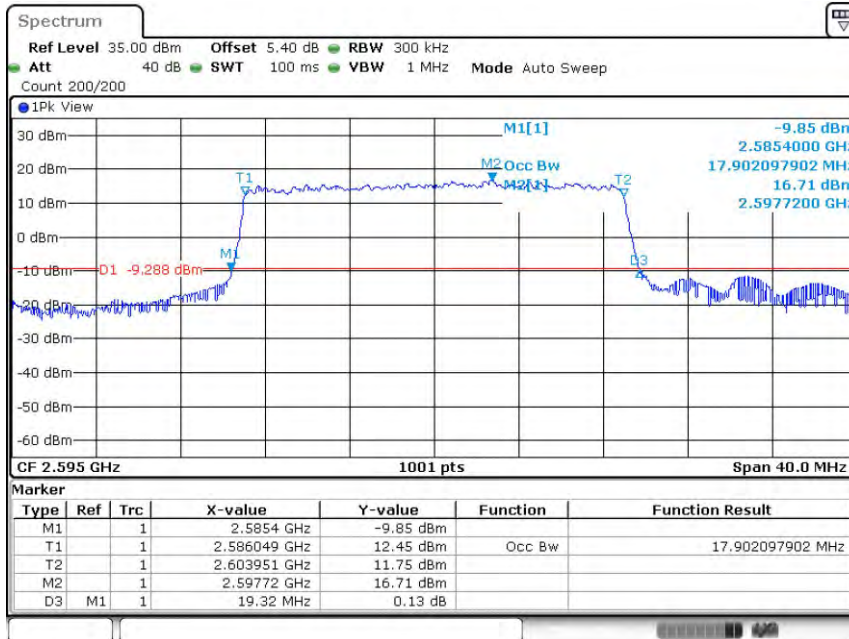


Date: 5.NOV.2020 12:13:46



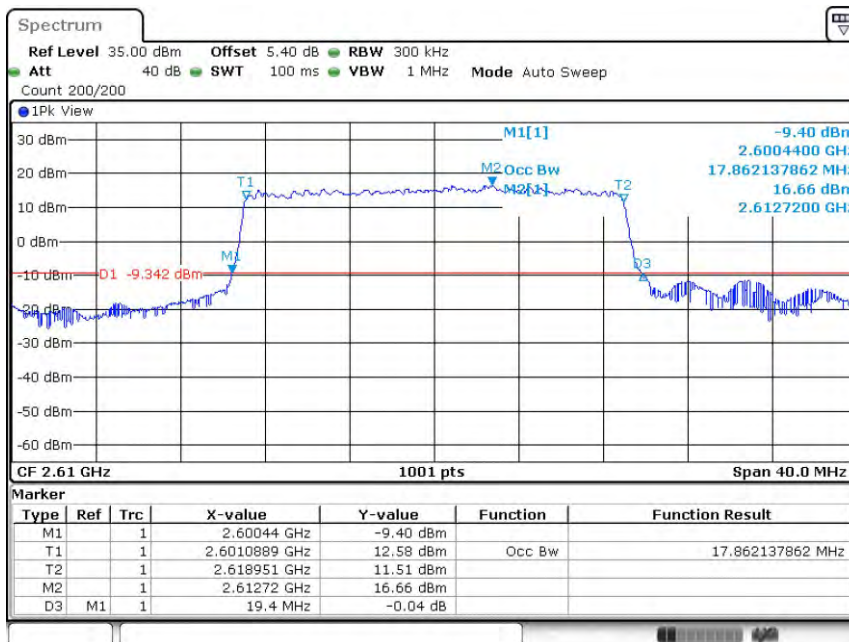
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**Band38-20MHz-16QAM-38000-100RB#0-17.902**



Date: 5.NOV.2020 12:14:57

**Band38-20MHz-16QAM-38150-100RB#0-17.862**

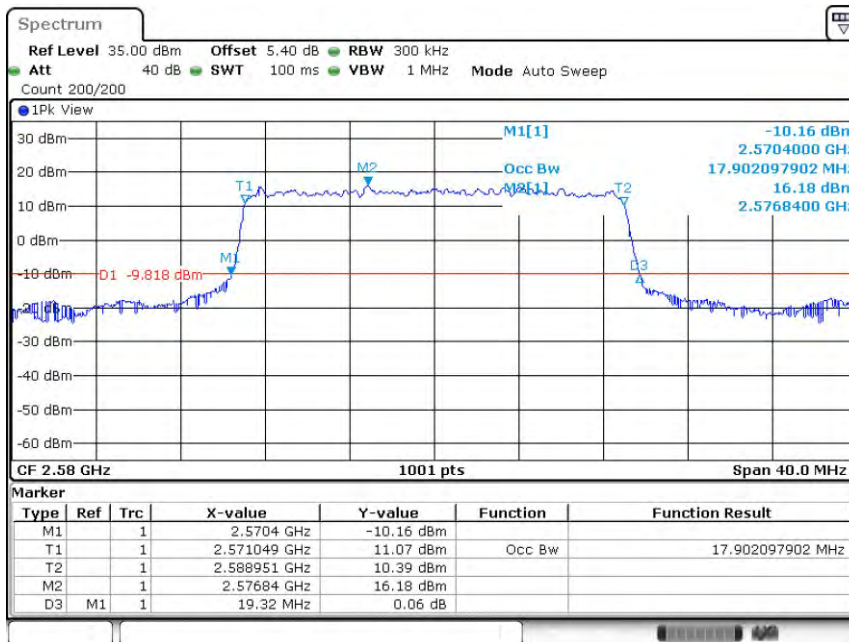


Date: 5.NOV.2020 12:16:08



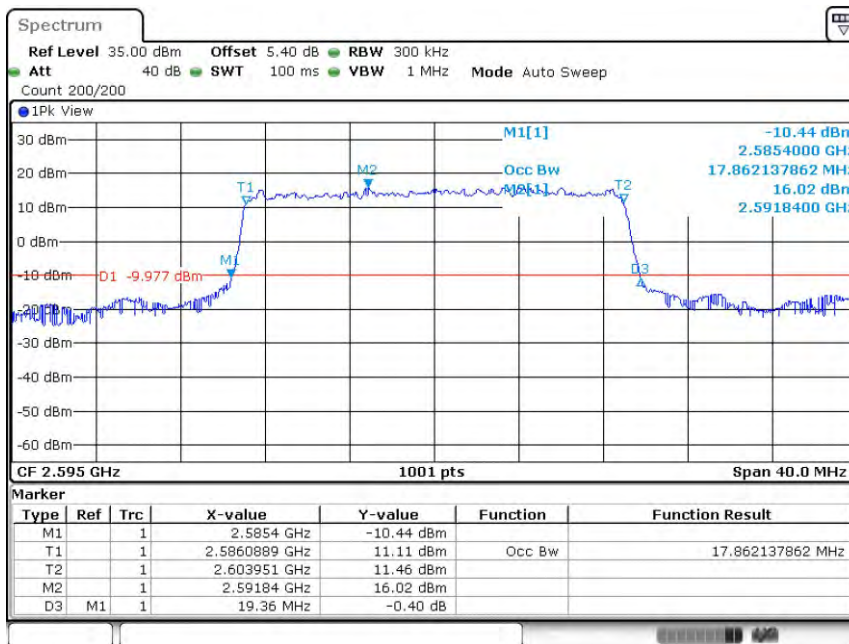
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**Band38-20MHz-64QAM-37850-100RB#0-17.902**



Date: 5.NOV.2020 14:09:44

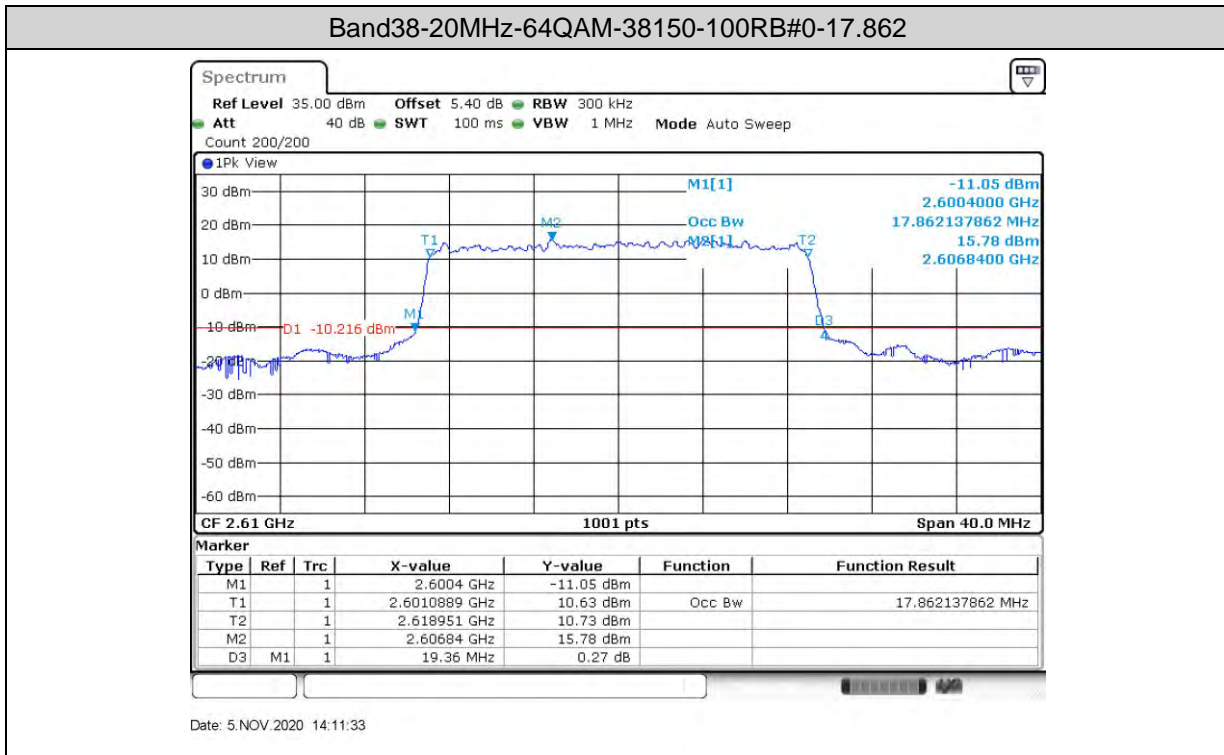
**Band38-20MHz-64QAM-38000-100RB#0-17.862**



Date: 5.NOV.2020 14:10:19



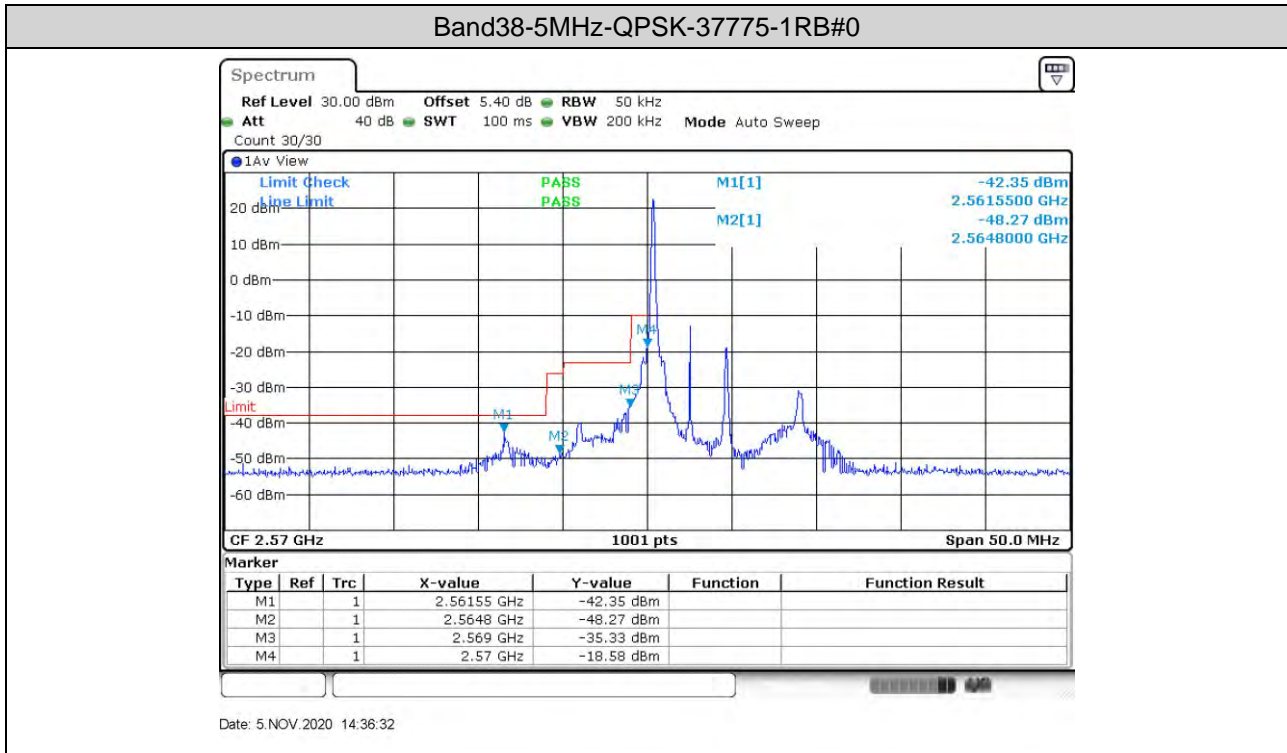
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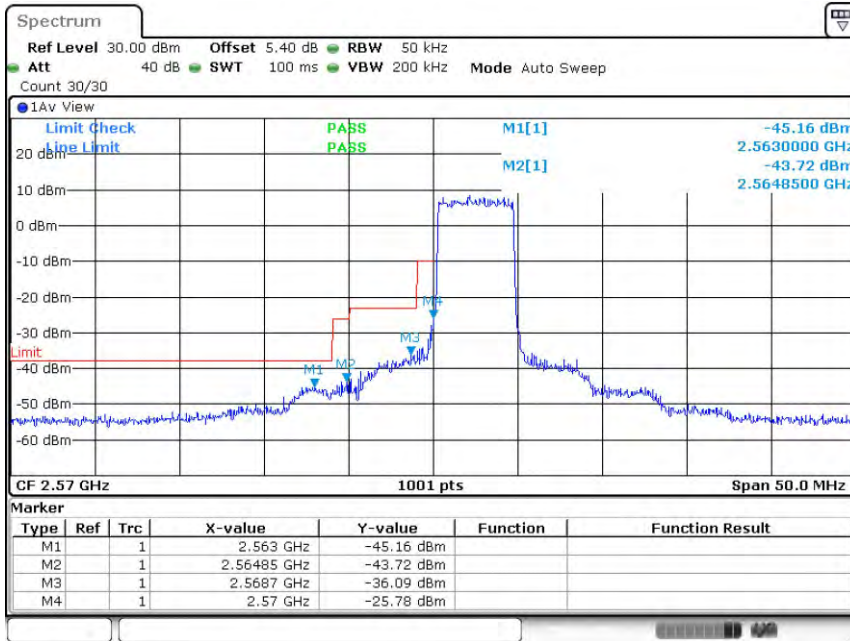
## 5 Band Edge Compliance

### 5.1 Test Plots



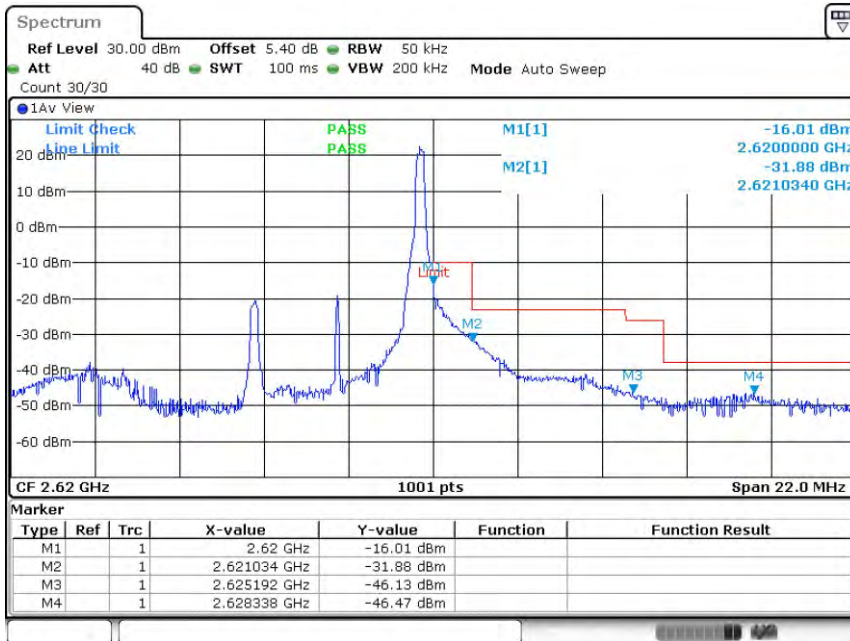
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**Band38-5MHz-QPSK-37775-25RB#0**



Date: 5.NOV.2020 14:37:42

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



Date: 5.NOV.2020 14:41:35



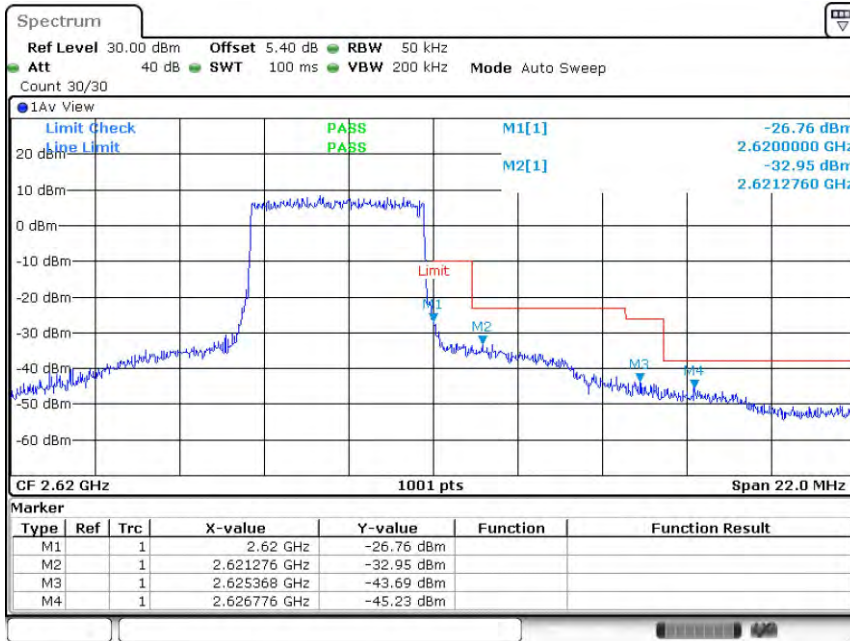
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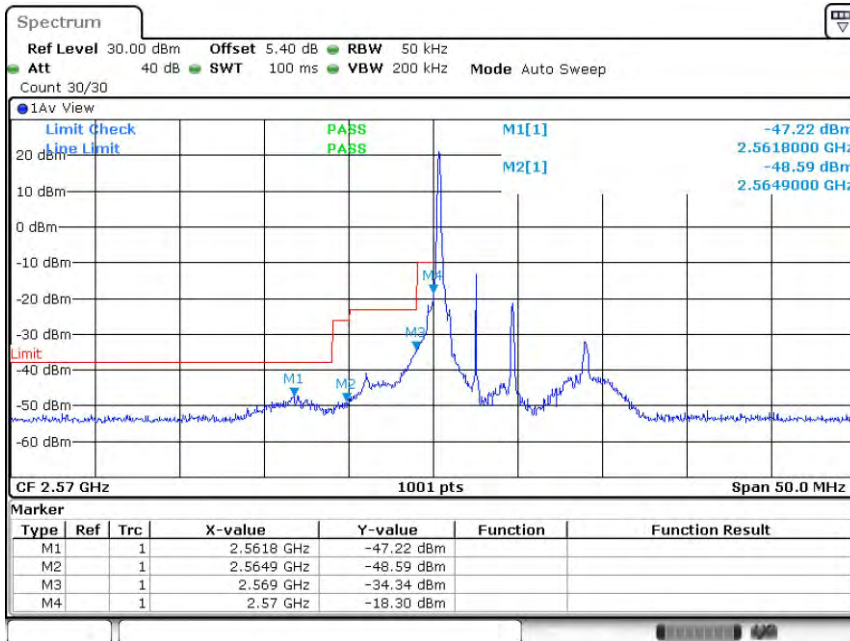


**Band38-5MHz-QPSK-38225-25RB#0**



Date: 5.NOV.2020 14:44:02

**Band38-5MHz-16QAM-37775-1RB#0**

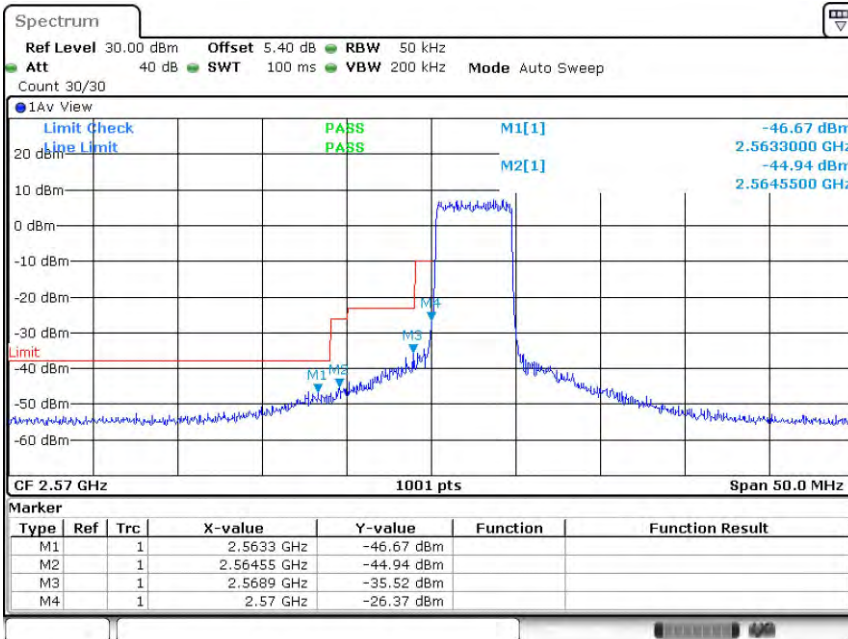


Date: 5.NOV.2020 14:37:25



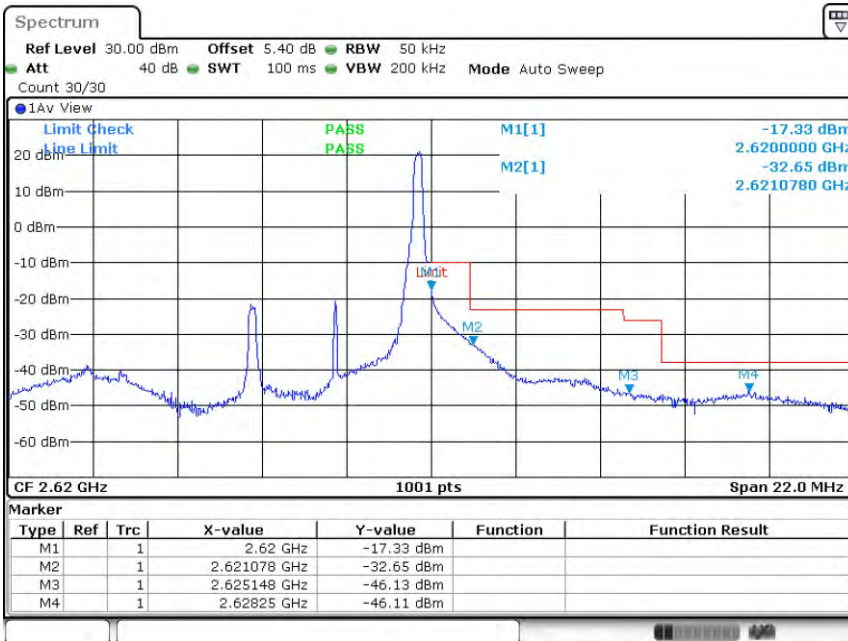
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**Band38-5MHz-16QAM-37775-25RB#0**



Date: 5.NOV.2020 14:38:00

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



Date: 5.NOV.2020 14:43:44

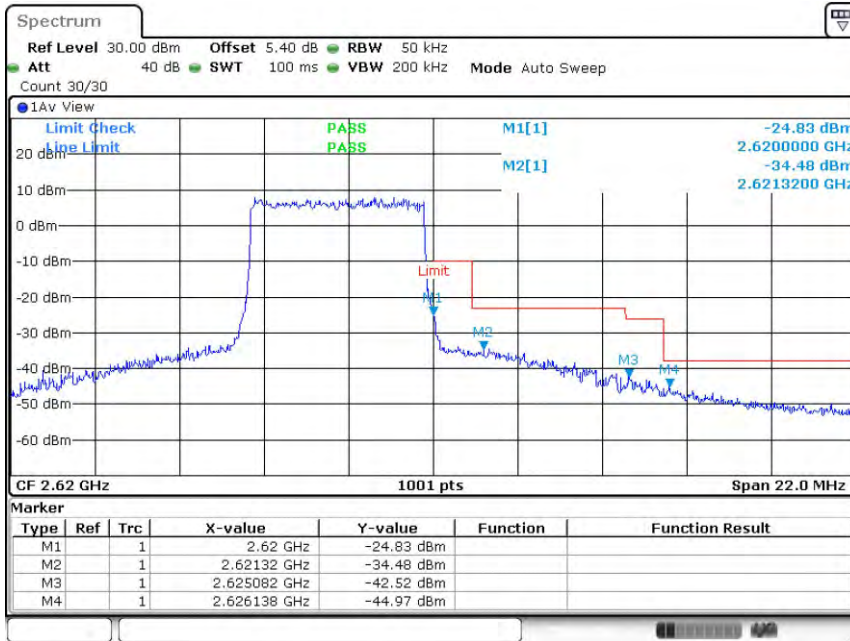


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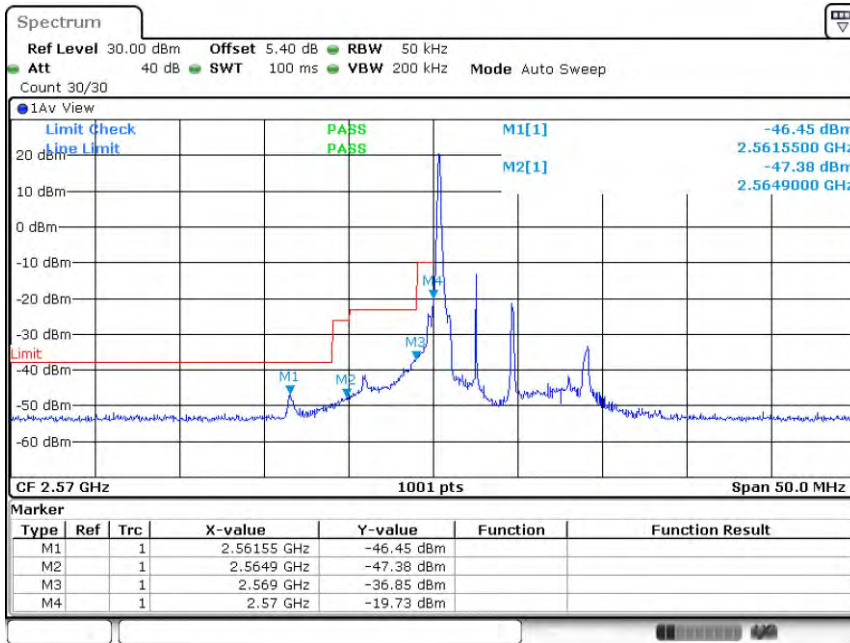
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**Band38-5MHz-16QAM-38225-25RB#0**



Date: 5.NOV.2020 14:44:58

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



Date: 5.NOV.2020 14:51:32

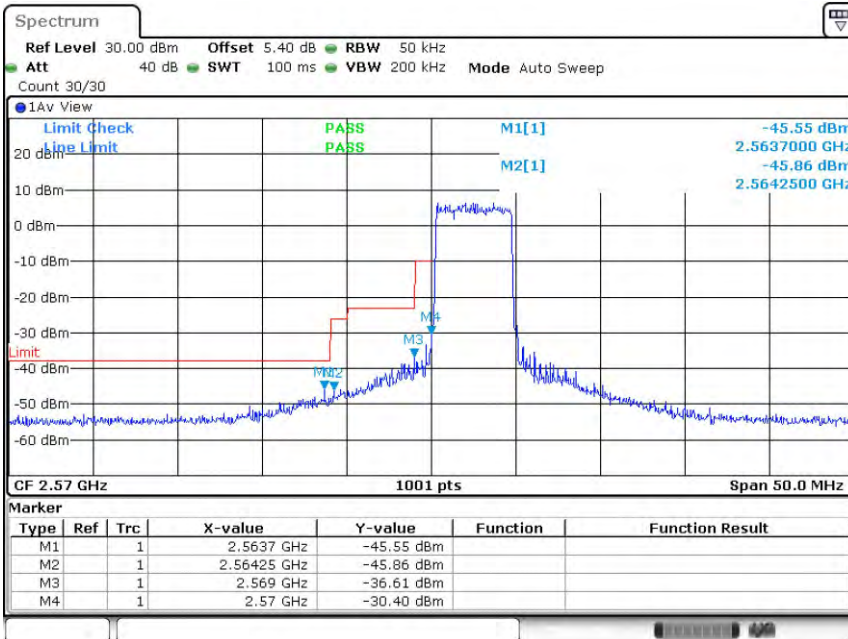


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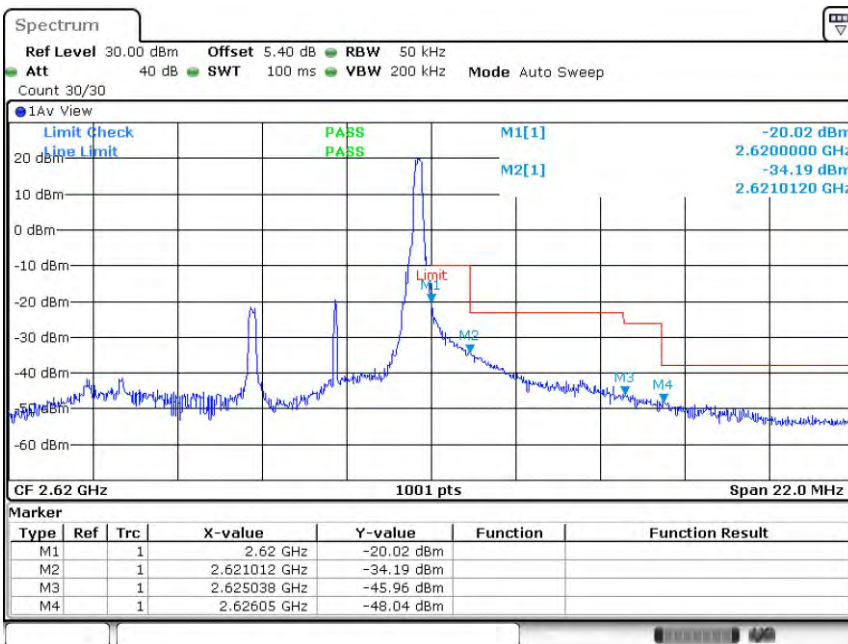
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**Band38-5MHz-64QAM-37775-25RB#0**



Date: 5.NOV.2020 14:51:50

**Band38-5MHz-64QAM-38225-1RB#24**



Date: 5.NOV.2020 14:52:42

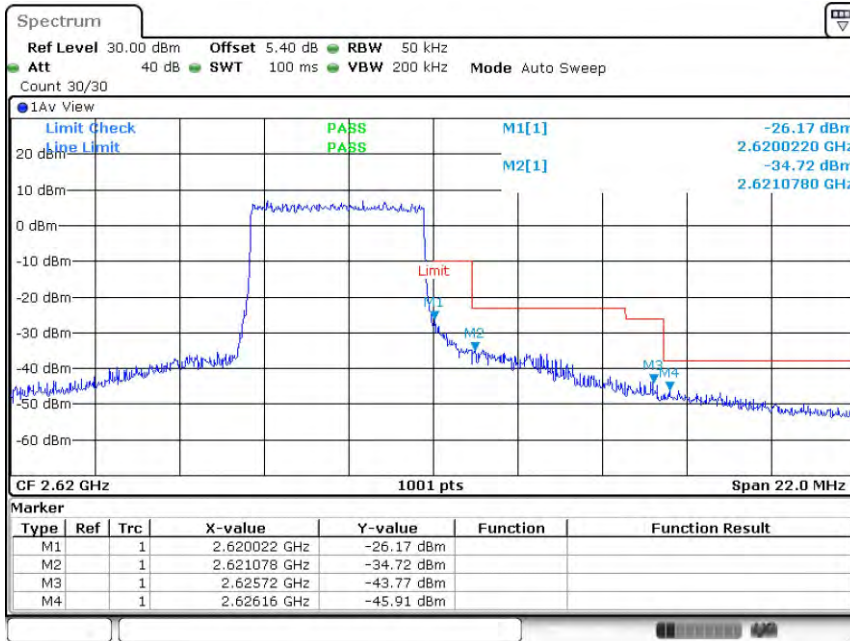


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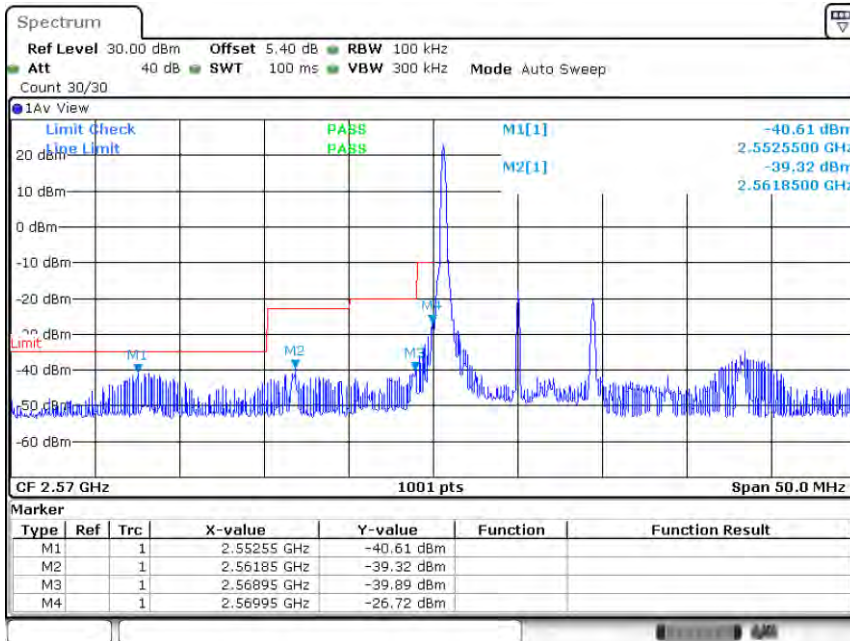
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**Band38-5MHz-64QAM-38225-25RB#0**



Date: 5.NOV.2020 14:53:26

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



Date: 22.OCT.2020 00:46:15

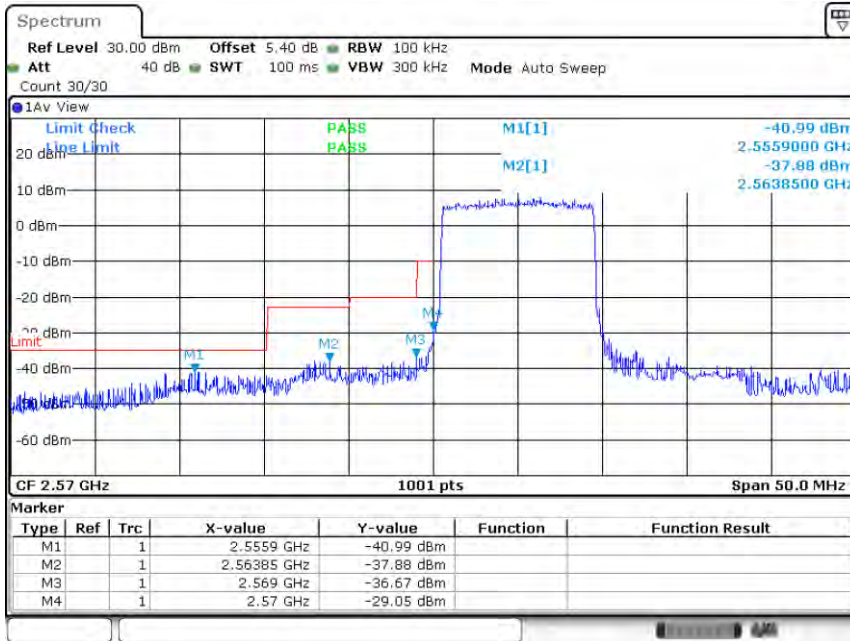


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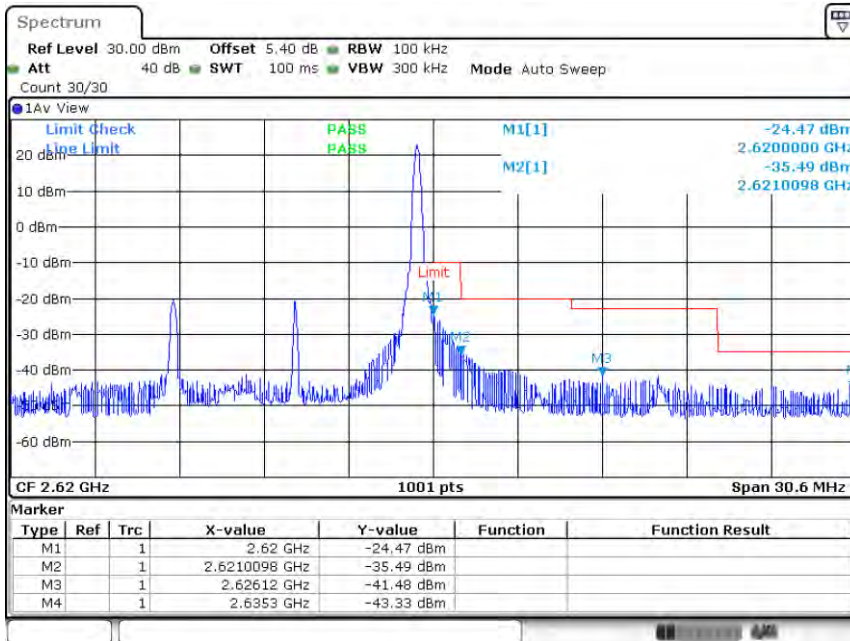
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**Band38-10MHz-QPSK-37800-50RB#0**



Date: 22.OCT.2020 00:46:53

**Band38-10MHz-QPSK-38200-1RB#49**



Date: 22.OCT.2020 00:47:38

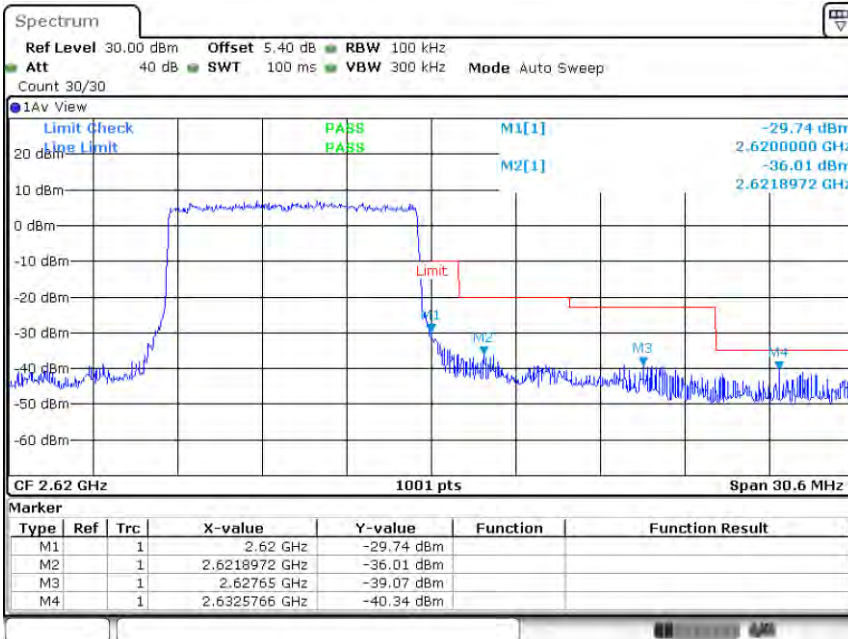


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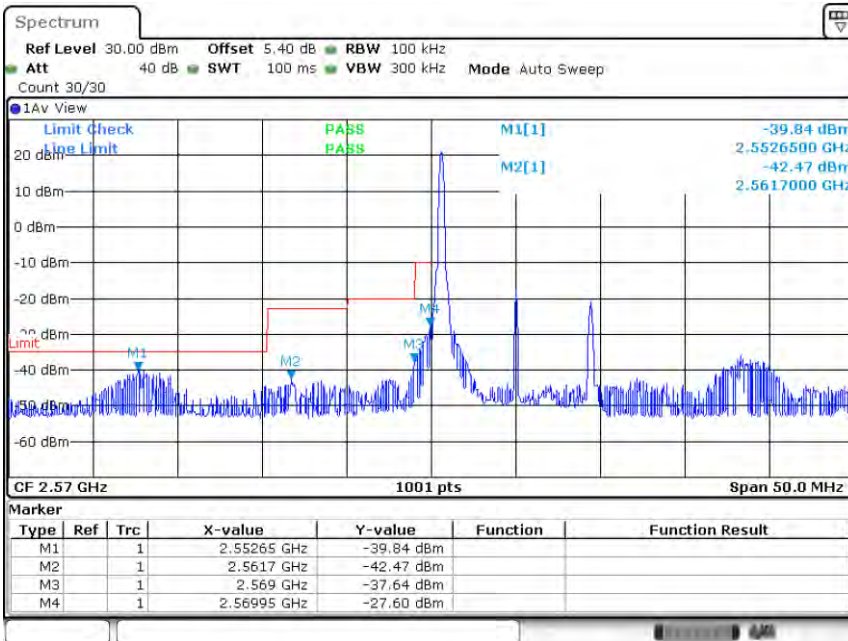
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**Band38-10MHz-QPSK-38200-50RB#0**



Date: 22.OCT.2020 00:48:16

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



Date: 22.OCT.2020 00:46:34

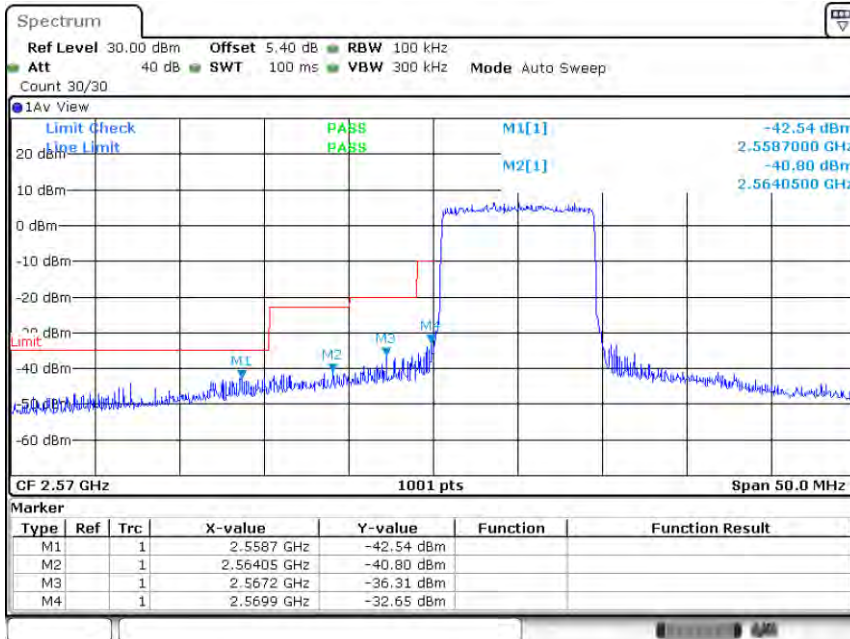


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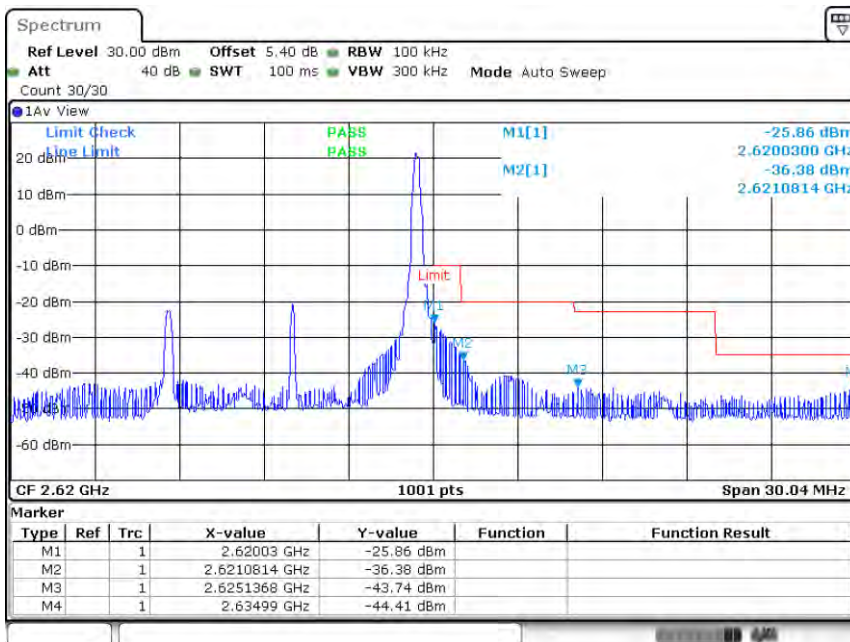
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**Band38-10MHz-16QAM-37800-50RB#0**



Date: 22.OCT.2020 00:47:12

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



Date: 22.OCT.2020 00:47:57



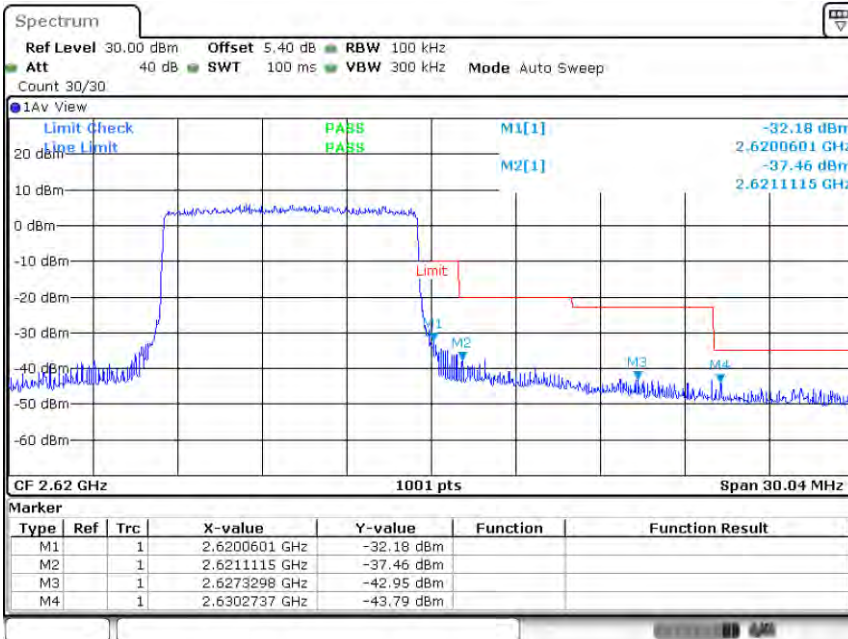
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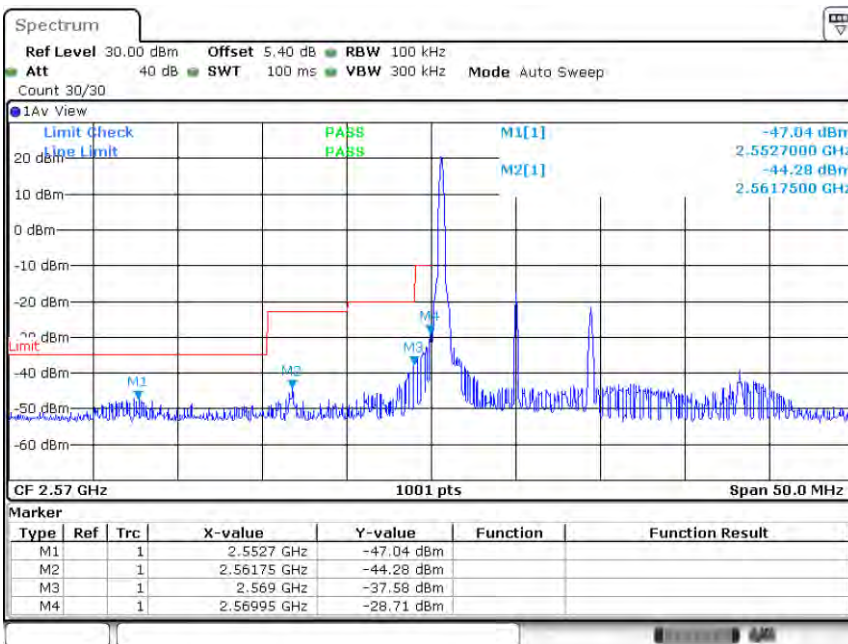


**Band38-10MHz-16QAM-38200-50RB#0**



Date: 22.OCT.2020 00:48:35

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



Date: 22.OCT.2020 11:51:00

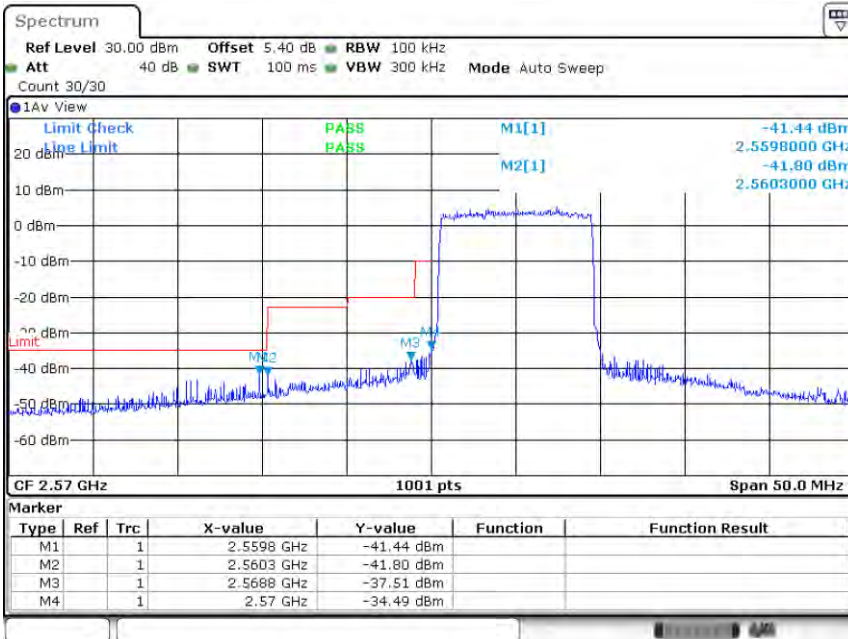


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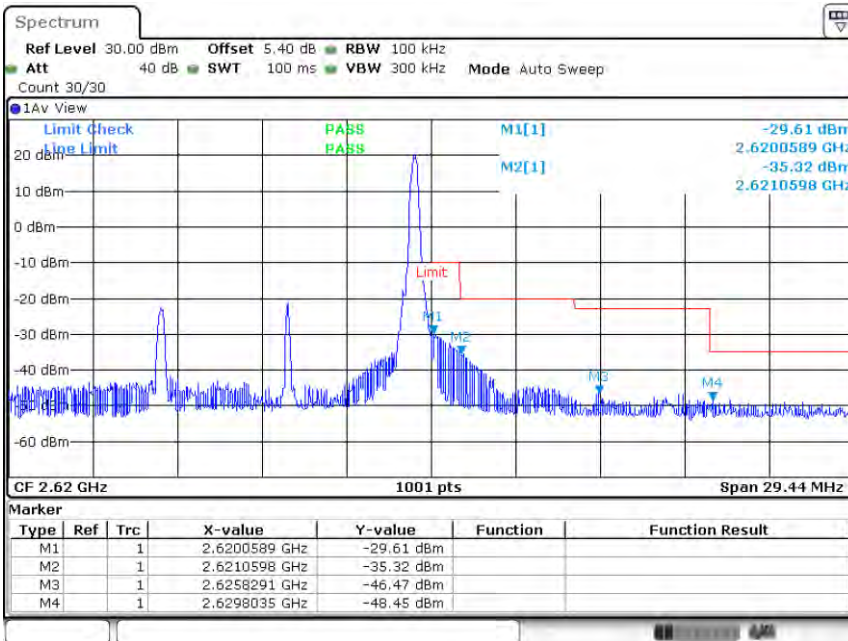
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**Band38-10MHz-64QAM-37800-50RB#0**



Date: 22.OCT.2020 11:51:19

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



Date: 22.OCT.2020 11:51:47

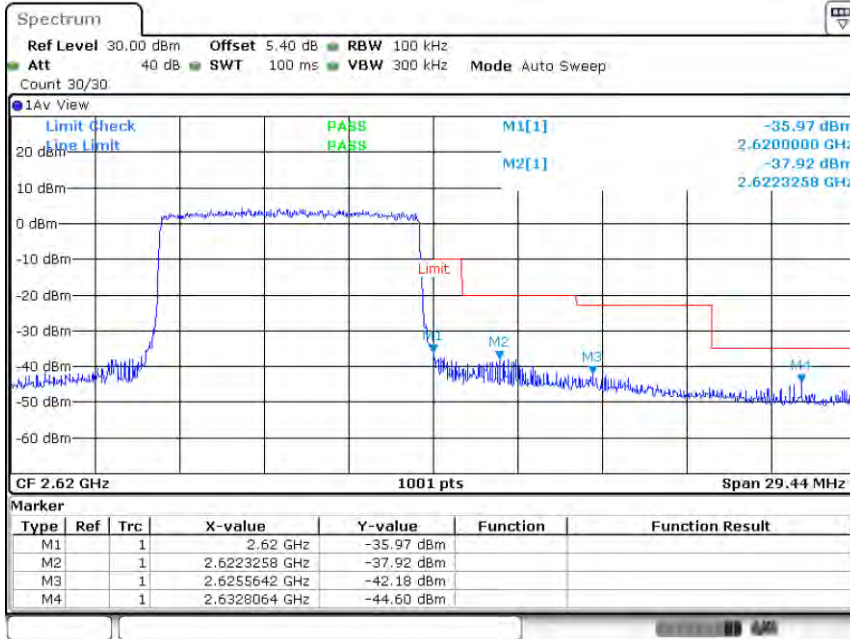


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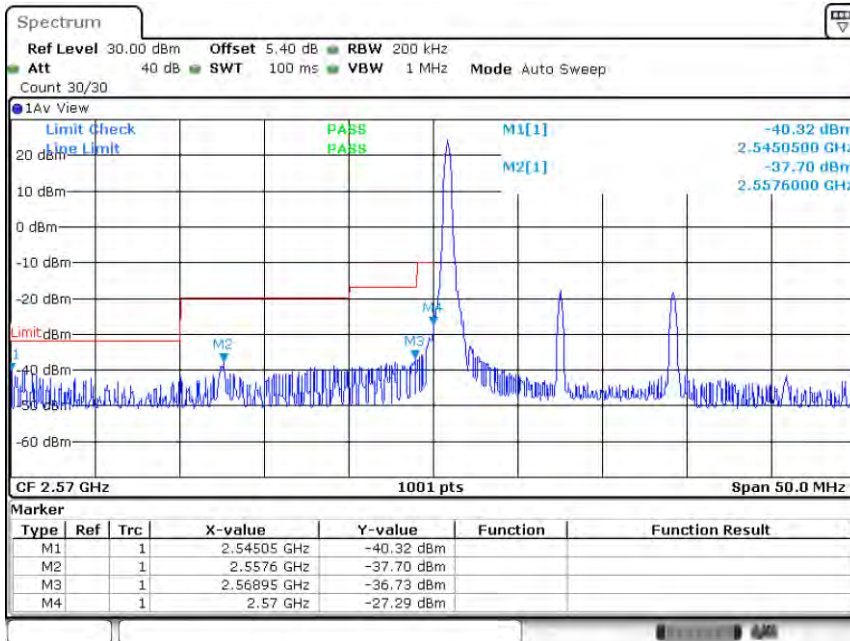
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**Band38-10MHz-64QAM-38200-50RB#0**



Date: 22.OCT.2020 11:52:06

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

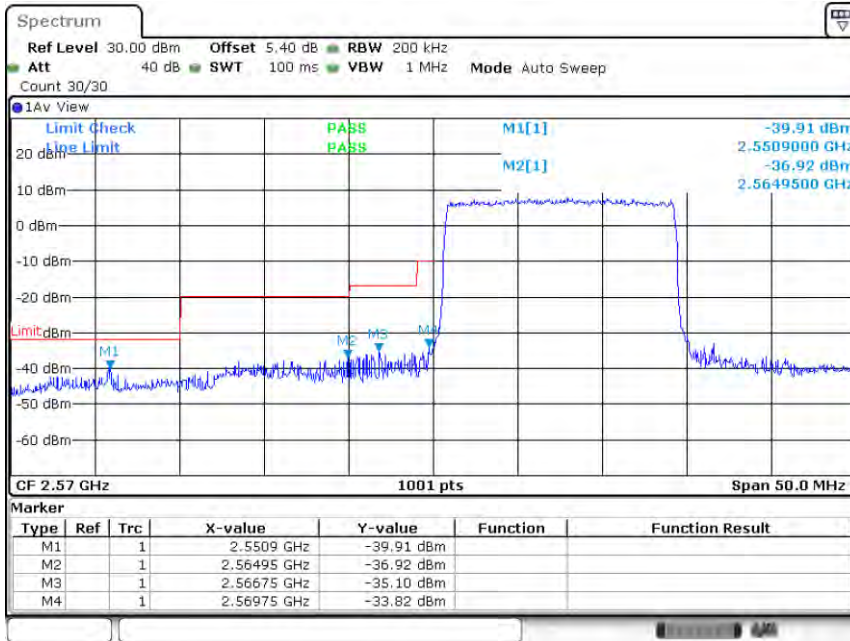


Date: 22.OCT.2020 00:49:03



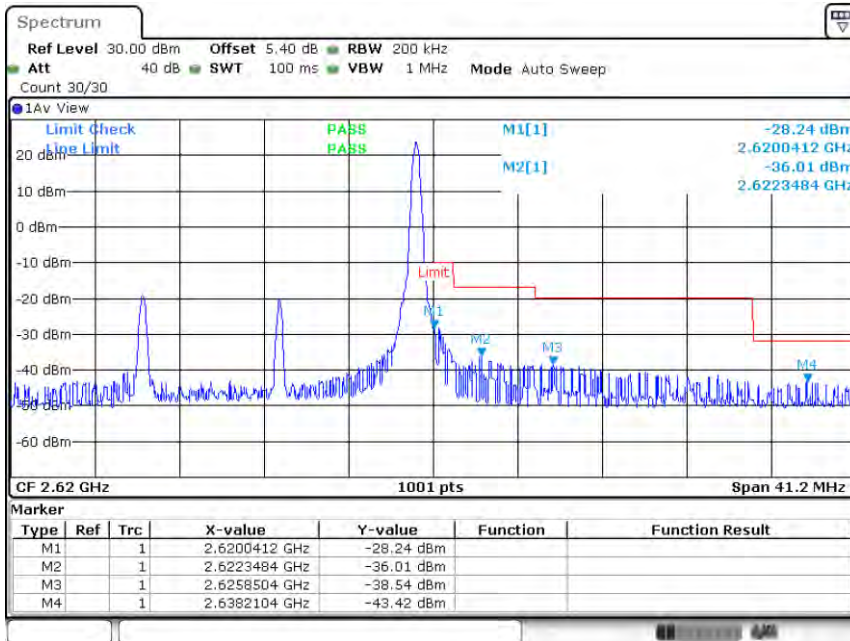
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**Band38-15MHz-QPSK-37825-75RB#0**



Date: 22.OCT.2020 00:49:41

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

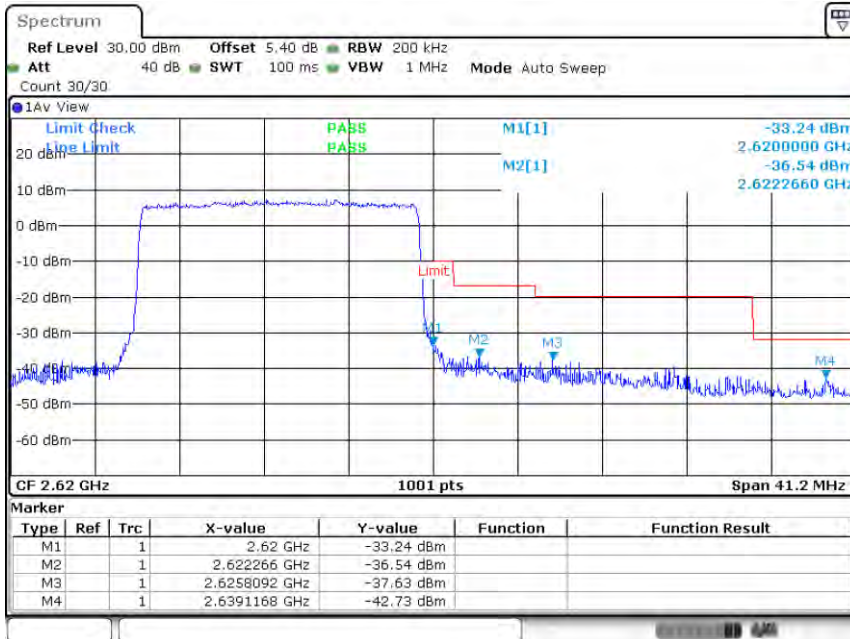


Date: 22.OCT.2020 00:50:27



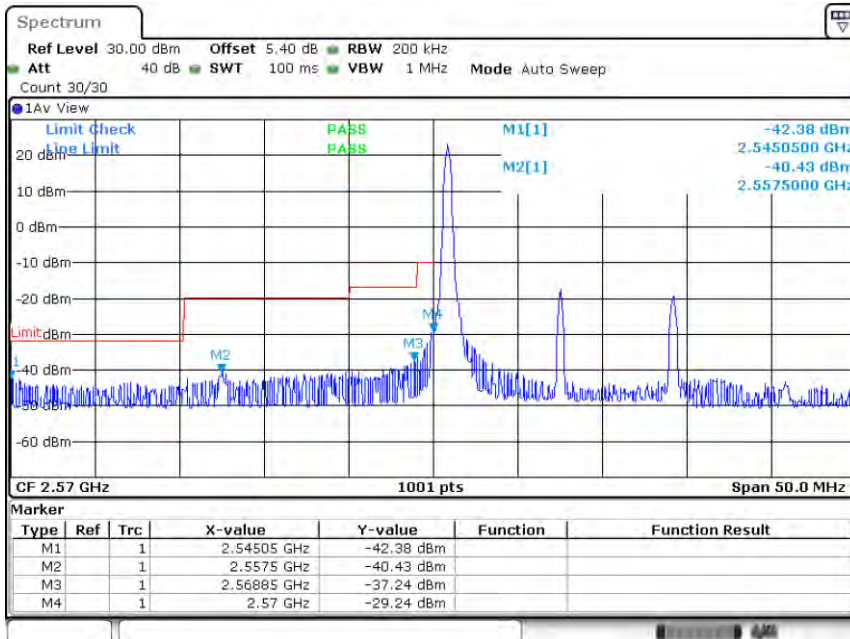
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**Band38-15MHz-QPSK-38175-75RB#0**



Date: 22.OCT.2020 00:51:04

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

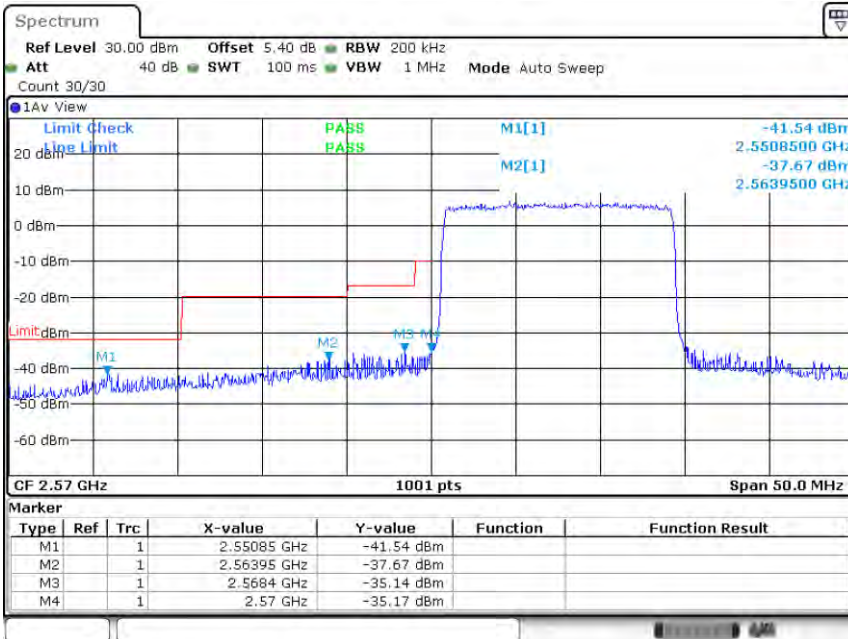


Date: 22.OCT.2020 00:49:22



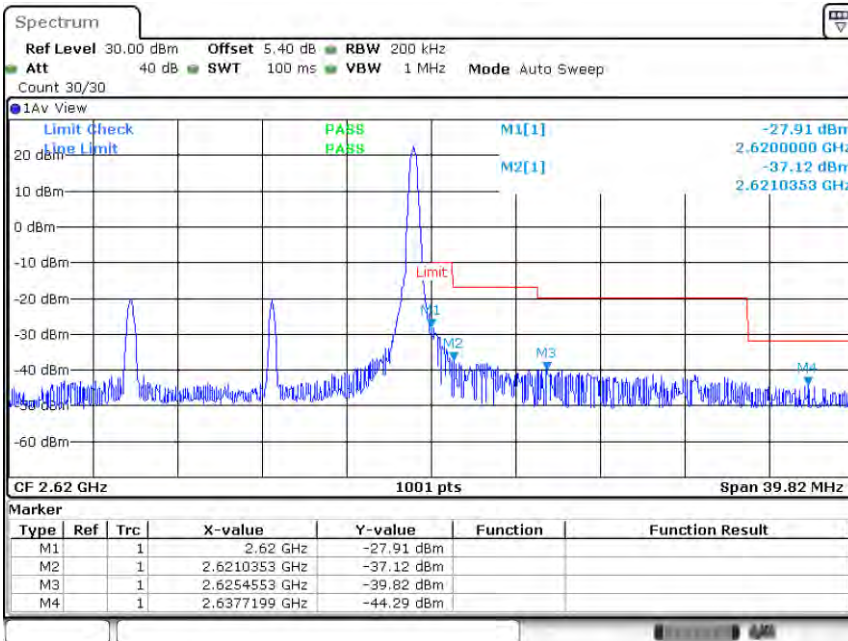
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**Band38-15MHz-16QAM-37825-75RB#0**



Date: 22.OCT.2020 00:50:00

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



Date: 22.OCT.2020 00:50:45

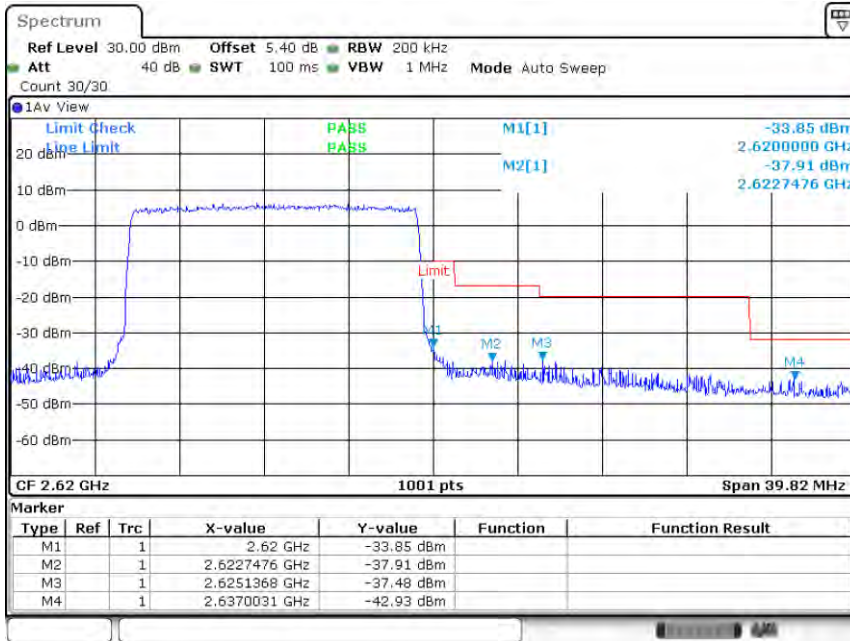


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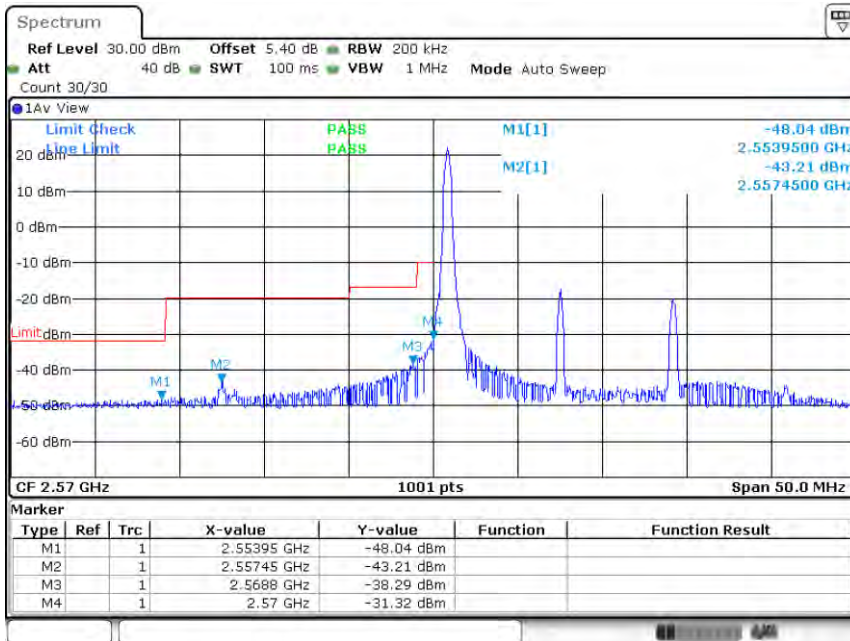
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**Band38-15MHz-16QAM-38175-75RB#0**



Date: 22.OCT.2020 00:51:23

**Band38-15MHz-64QAM-37825-1RB#0**

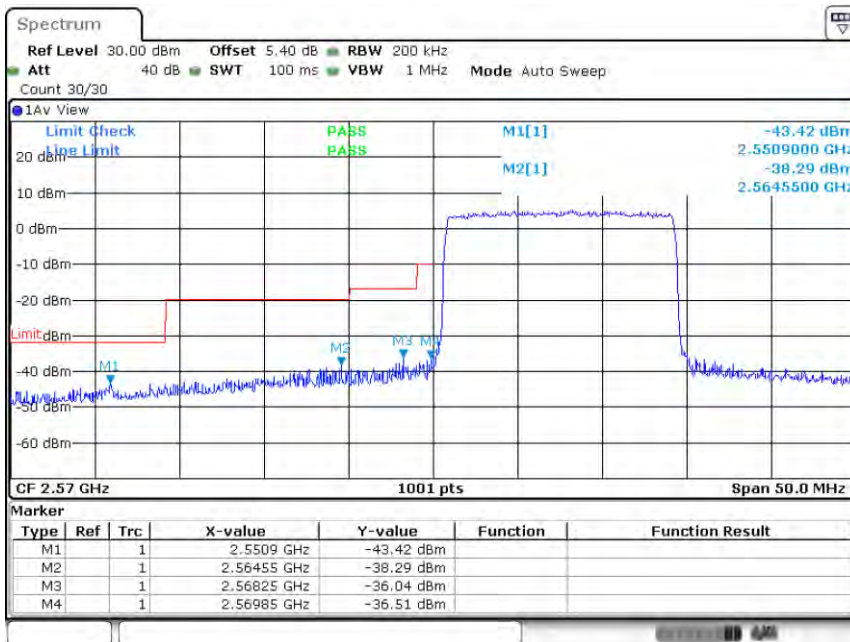


Date: 22.OCT.2020 11:52:35



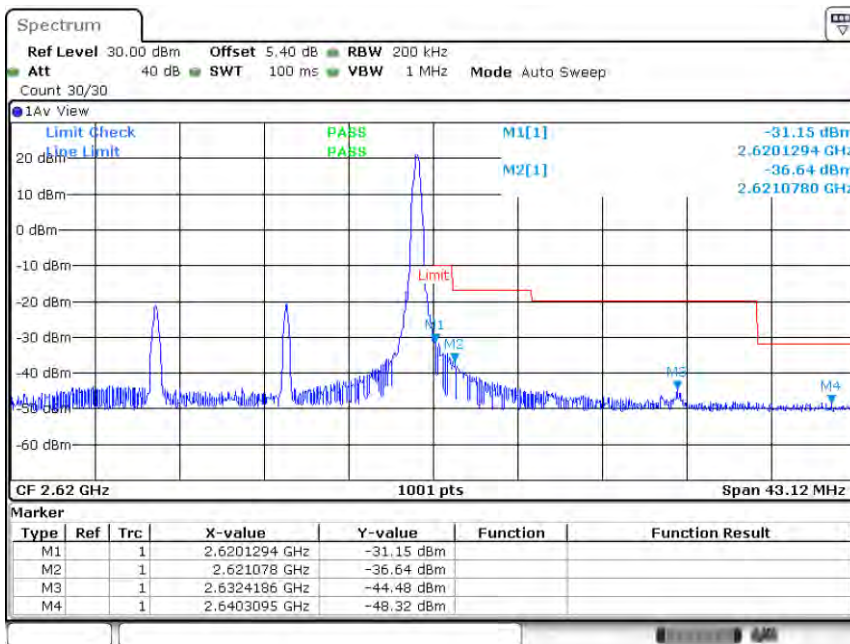
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**Band38-15MHz-64QAM-37825-75RB#0**



Date: 22.OCT.2020 11:52:53

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



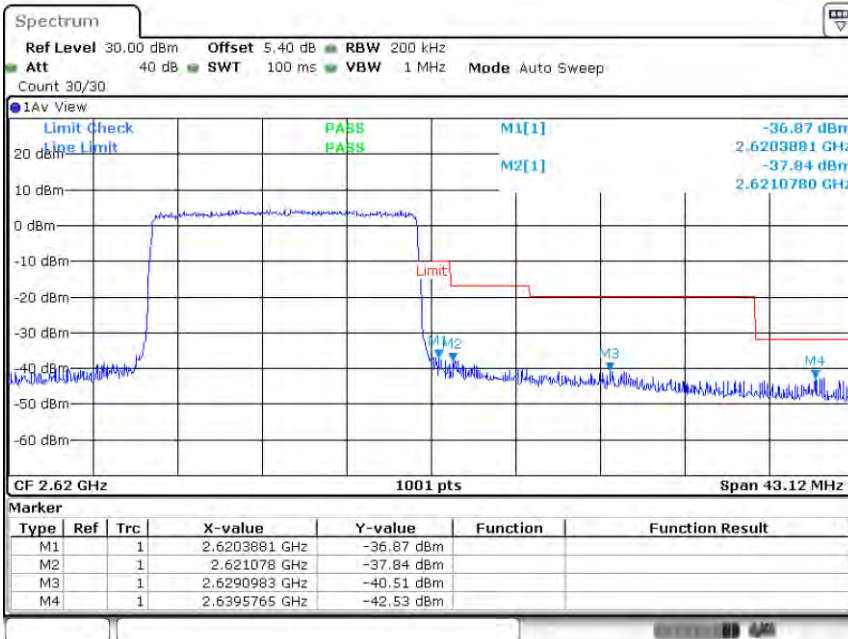
Date: 22.OCT.2020 11:53:21



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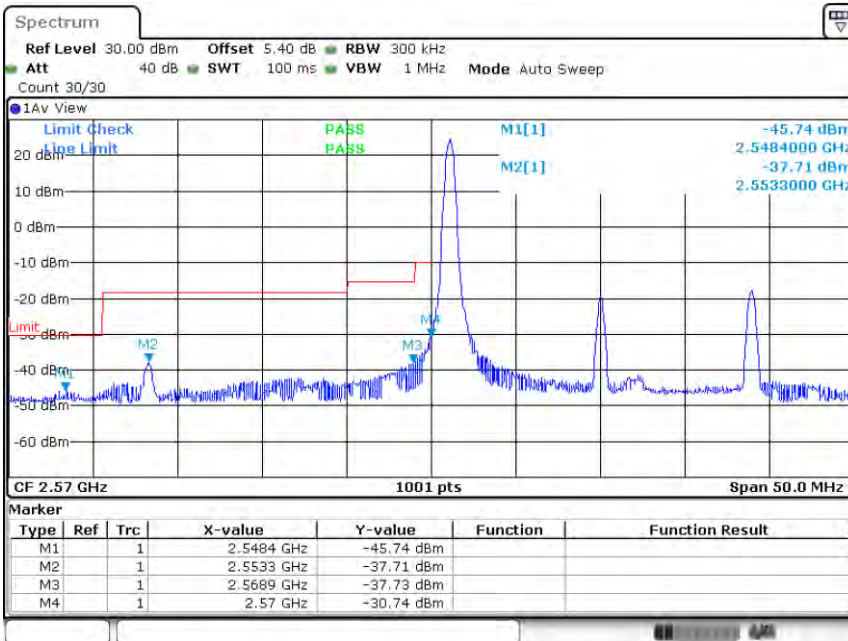


**Band38-15MHz-64QAM-38175-75RB#0**



Date: 22.OCT.2020 11:53:39

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

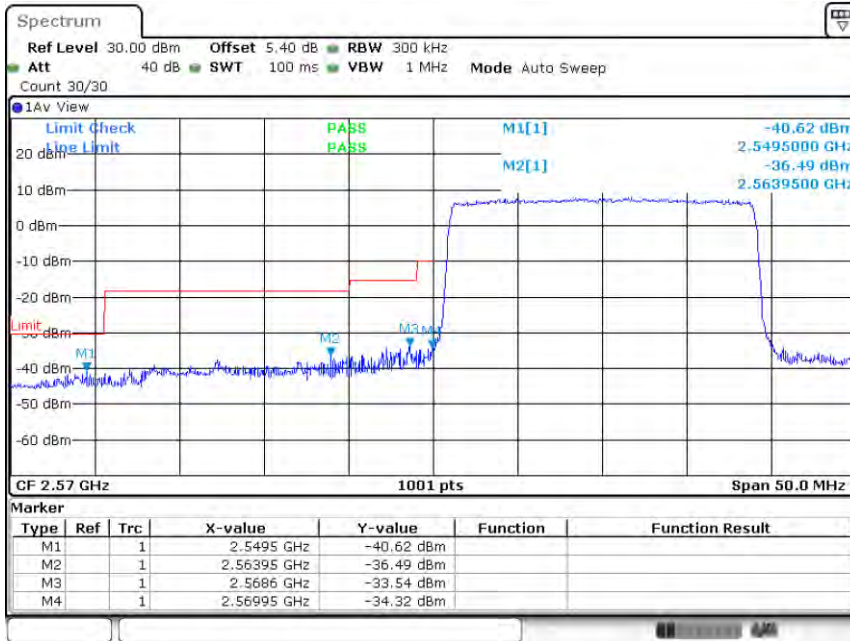


Date: 22.OCT.2020 00:51:51



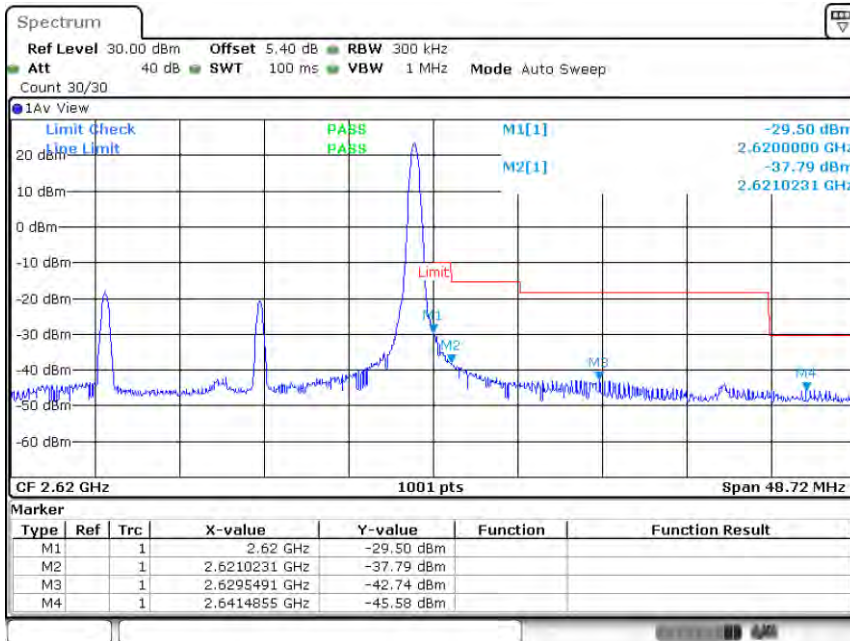
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**Band38-20MHz-QPSK-37850-100RB#0**



Date: 22.OCT.2020 00:52:28

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



Date: 22.OCT.2020 00:53:14

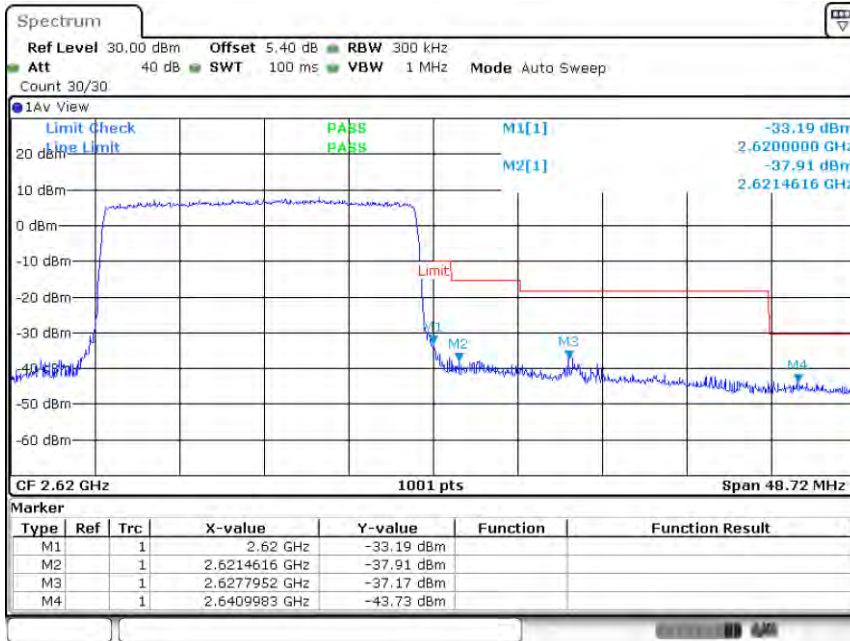


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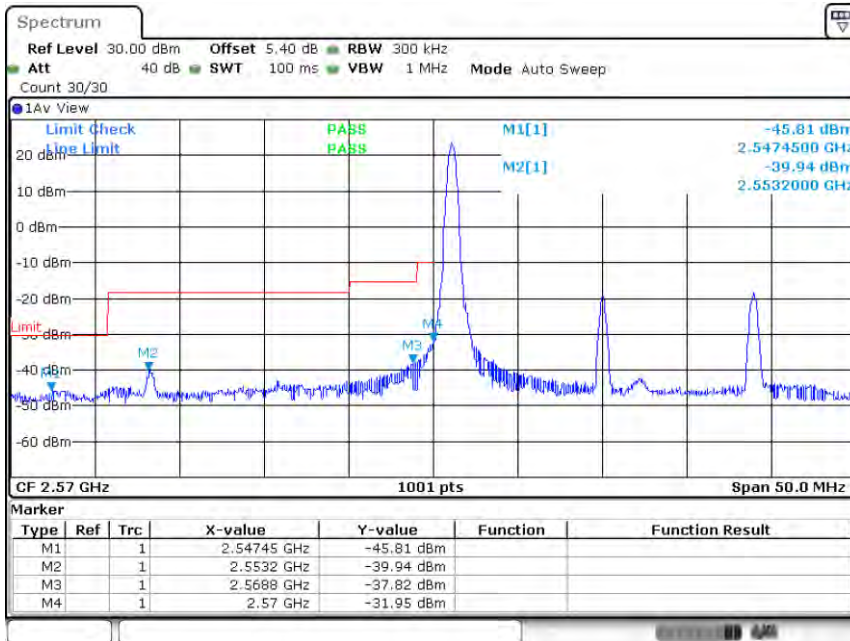
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22.OCT.2020 00:53:52

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

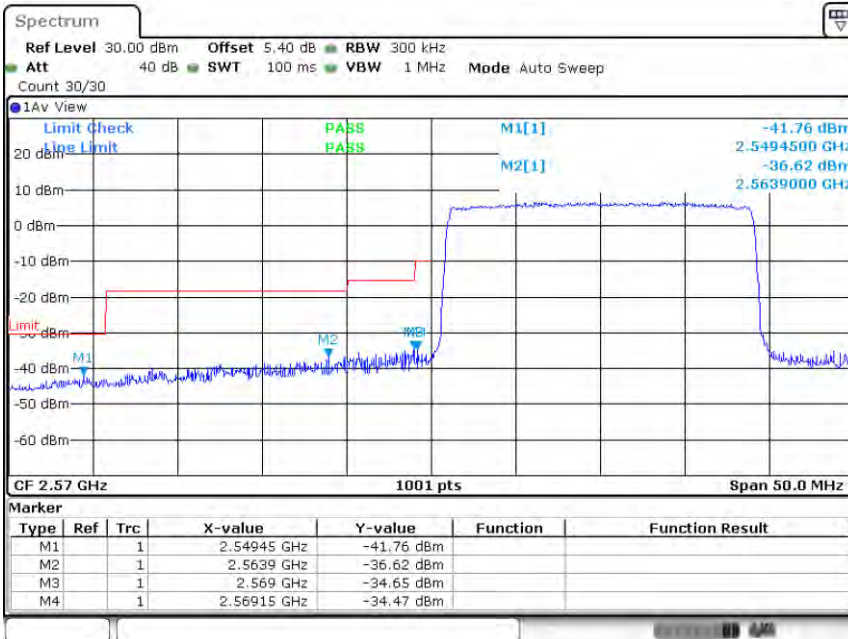


Date: 22.OCT.2020 00:52:10



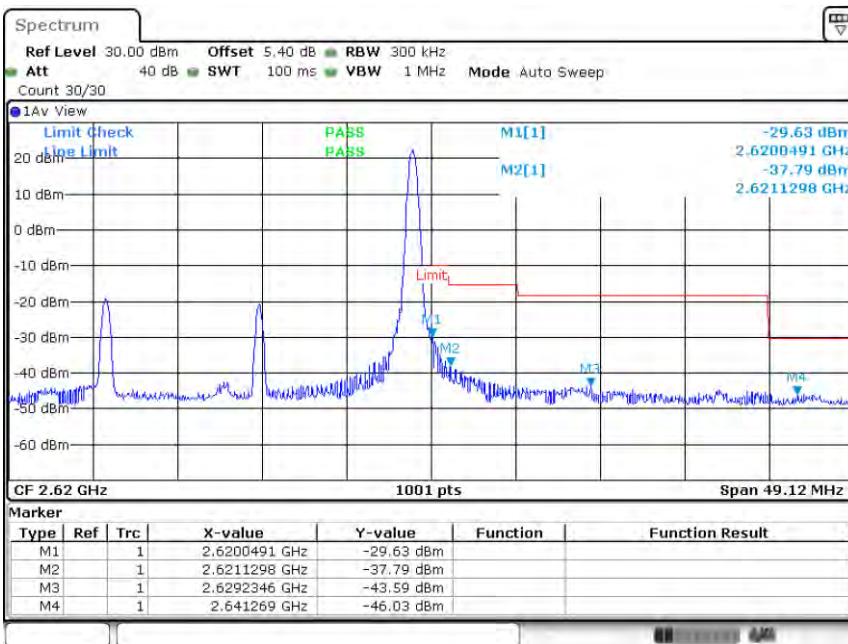
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**Band38-20MHz-16QAM-37850-100RB#0**



Date: 22.OCT.2020 00:52:47

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



Date: 22.OCT.2020 00:53:33

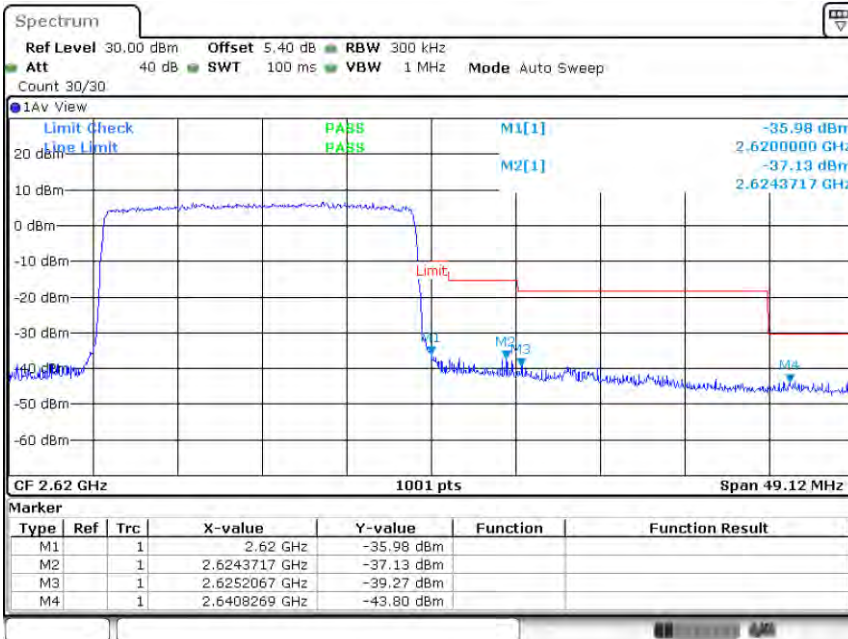


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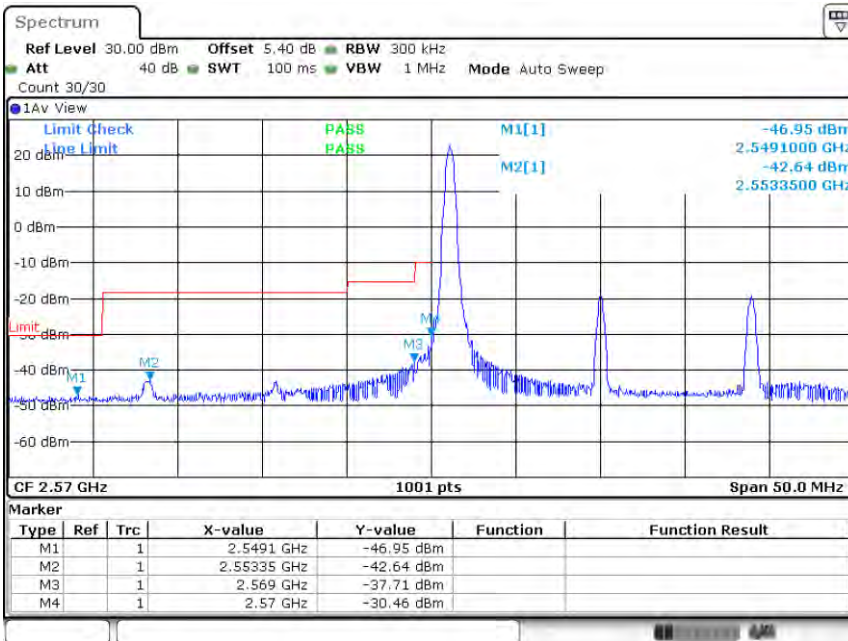
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**Band38-20MHz-16QAM-38150-100RB#0**



Date: 22.OCT.2020 00:54:11

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

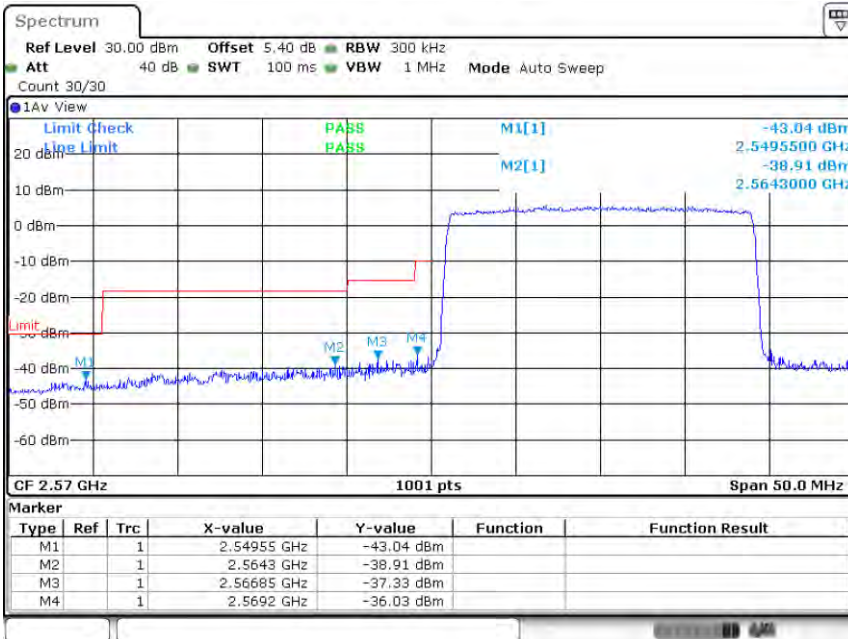


Date: 22.OCT.2020 11:54:09



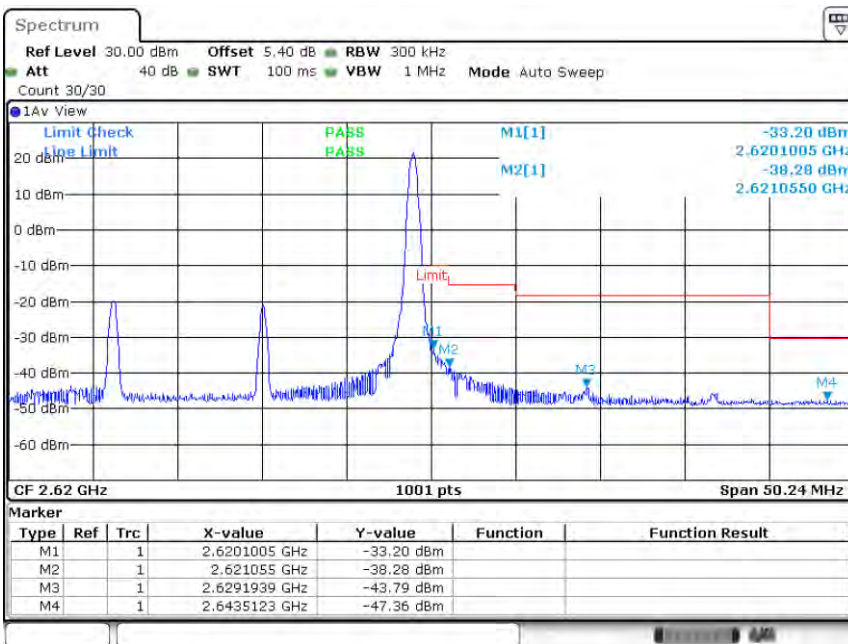
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**Band38-20MHz-64QAM-37850-100RB#0**



Date: 22.OCT.2020 11:54:27

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



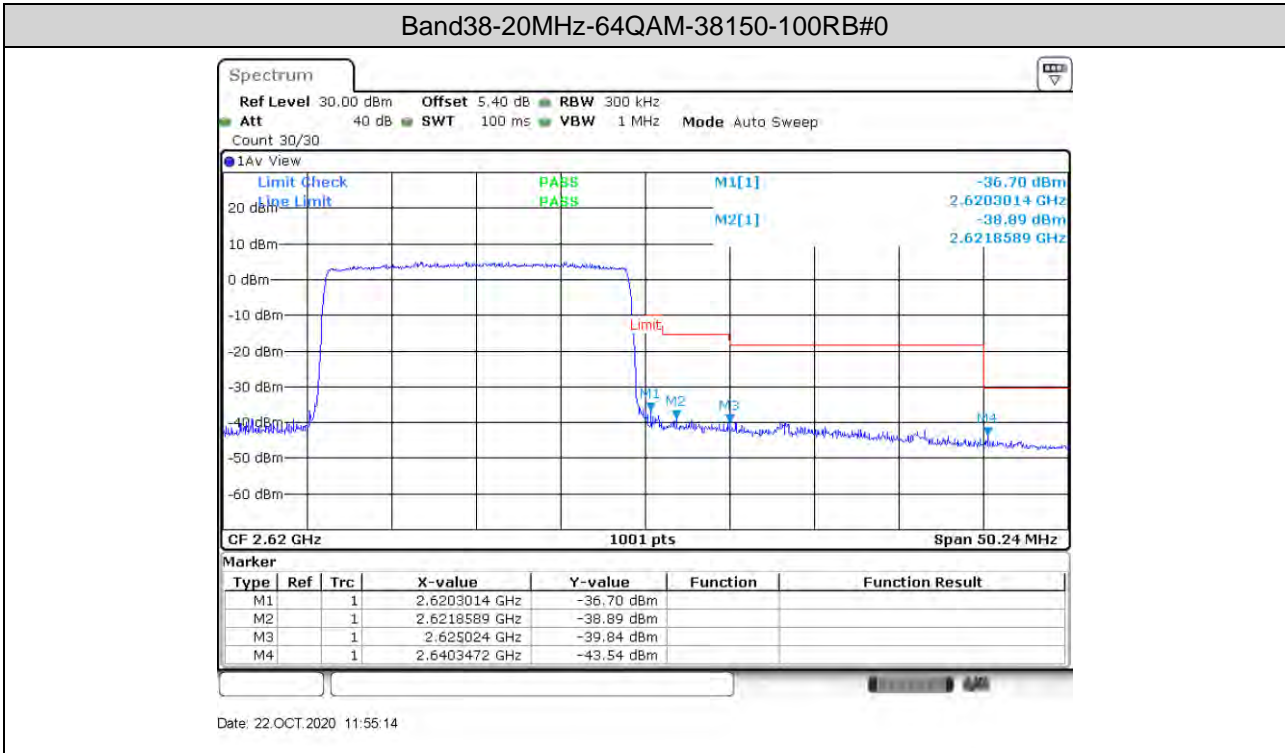
Date: 22.OCT.2020 11:54:55



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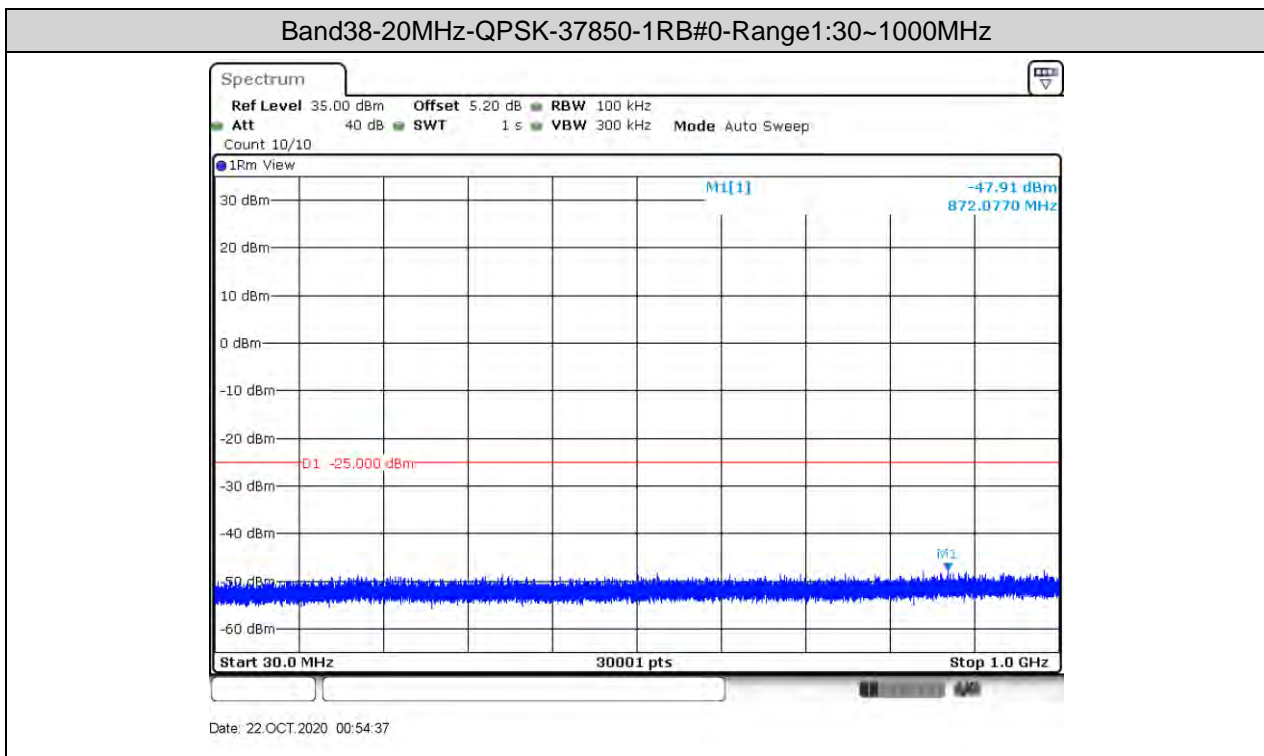
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## 6 Spurious Emission at Antenna Terminal

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.

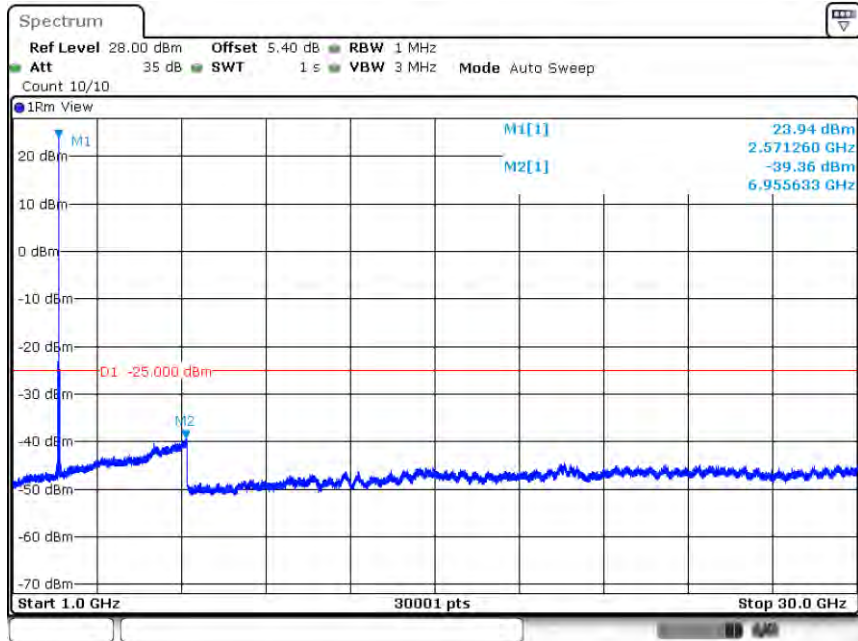
### 6.1 Test Plots



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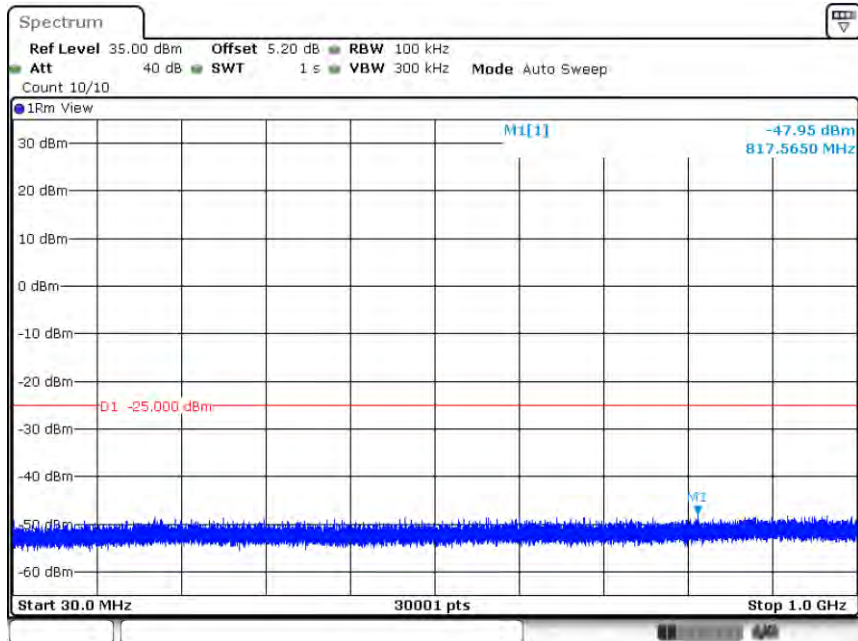


**Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz**



Date: 22.OCT.2020 00:54:55

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

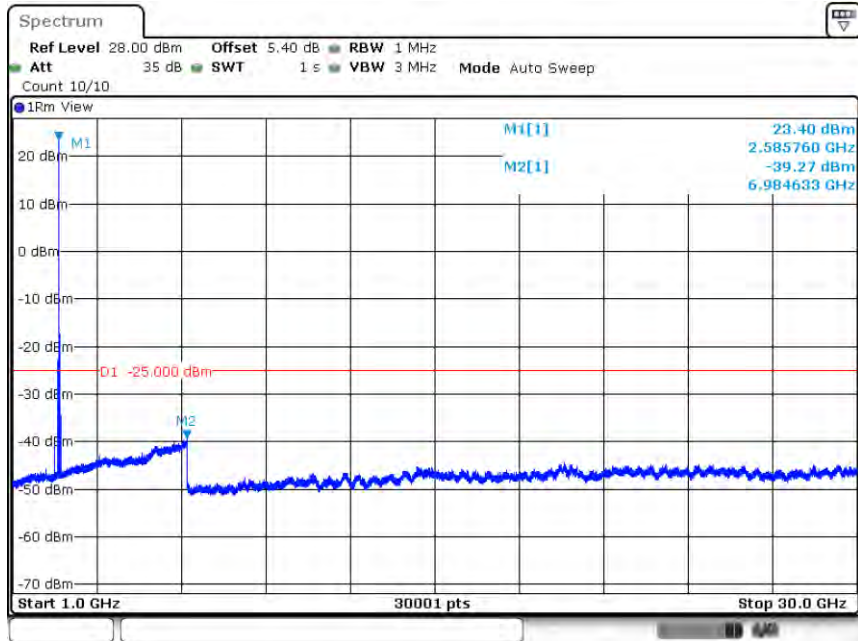


Date: 22.OCT.2020 00:55:56



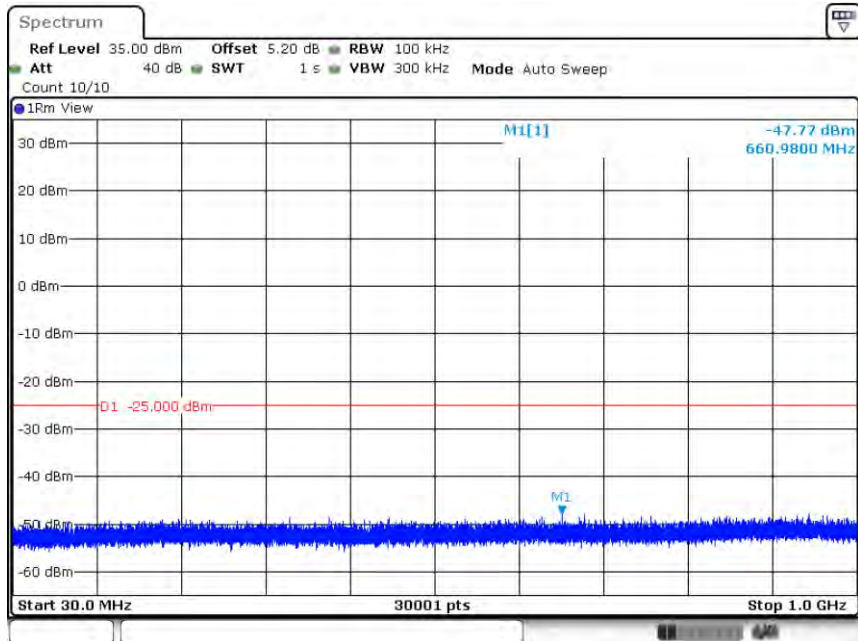
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**Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz**



Date: 22.OCT.2020 00:56:13

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



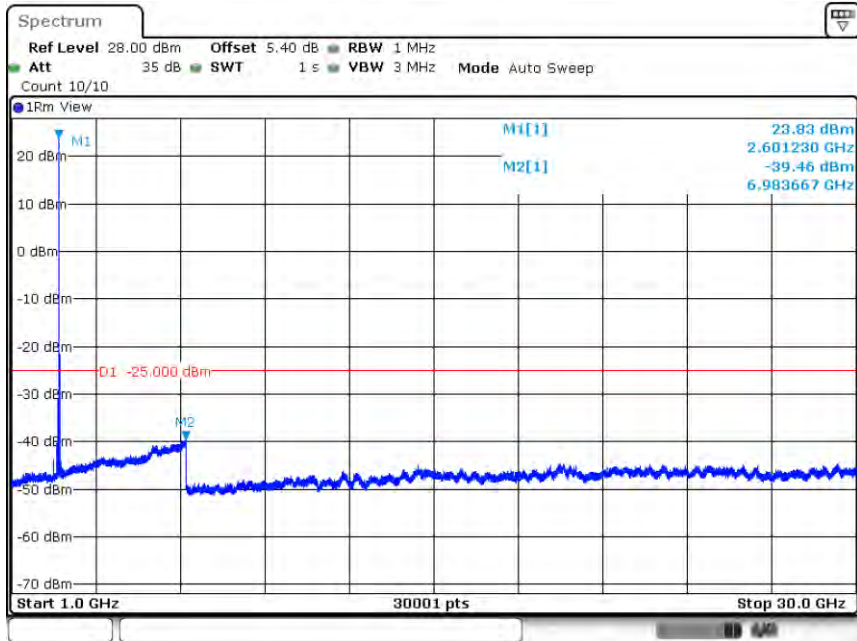
Date: 22.OCT.2020 00:57:14



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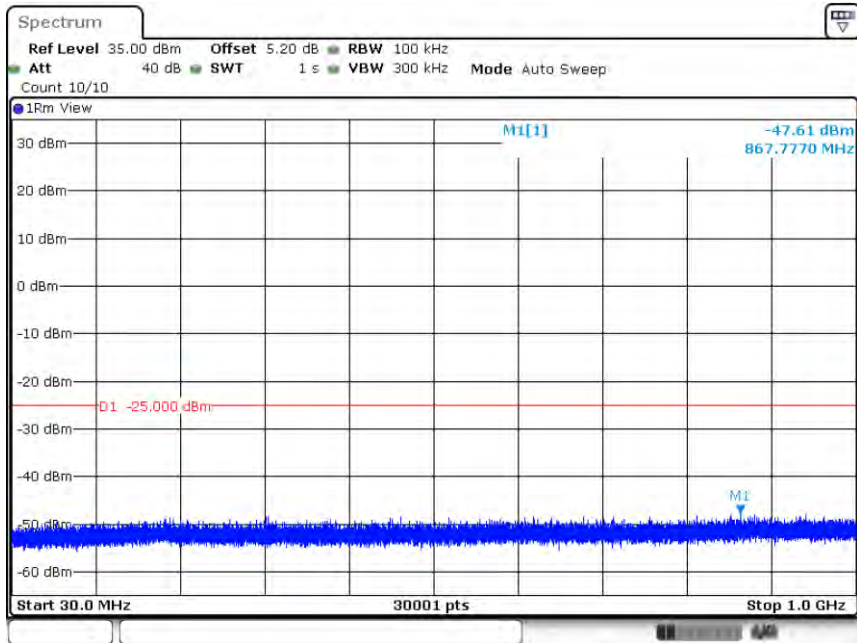


**Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz**



Date: 22.OCT.2020 00:57:32

**Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz**

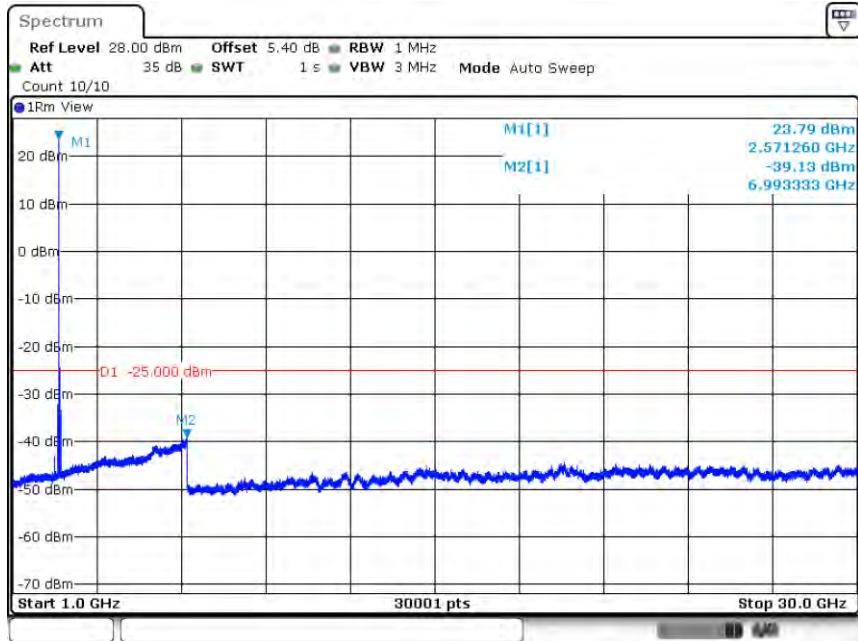


Date: 22.OCT.2020 00:55:17



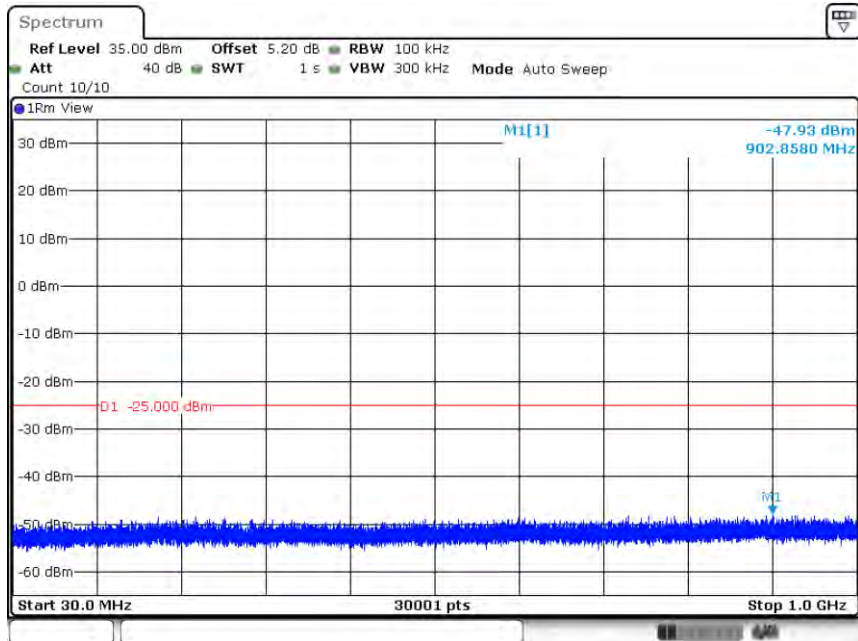
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**Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz**



Date: 22.OCT.2020 00:55:34

**Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz**

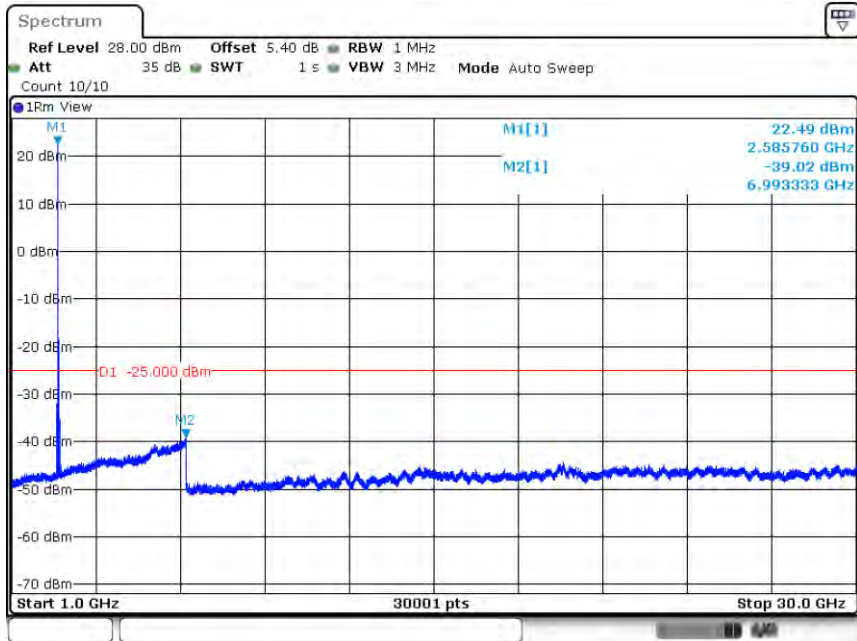


Date: 22.OCT.2020 00:56:35



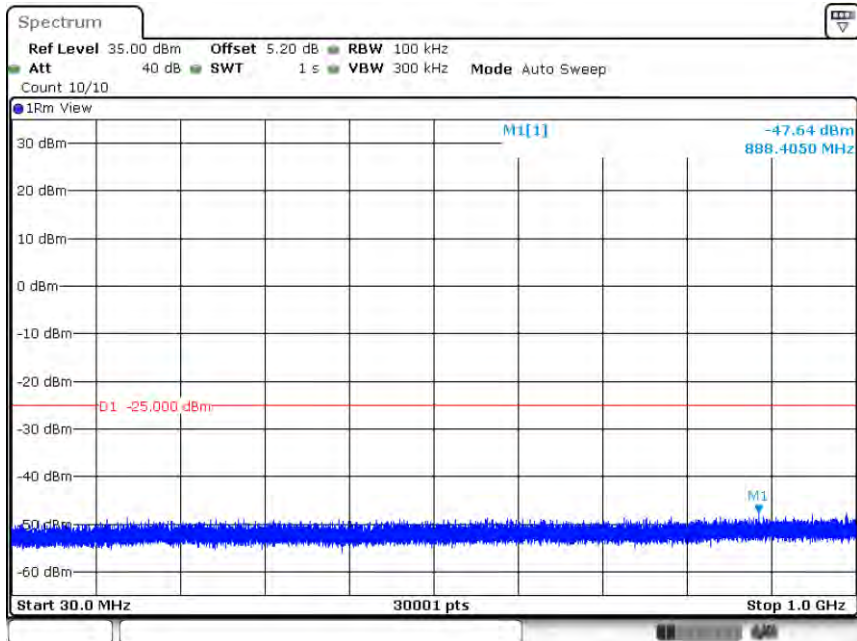
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**Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz**



Date: 22.OCT.2020 00:56:52

**Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz**

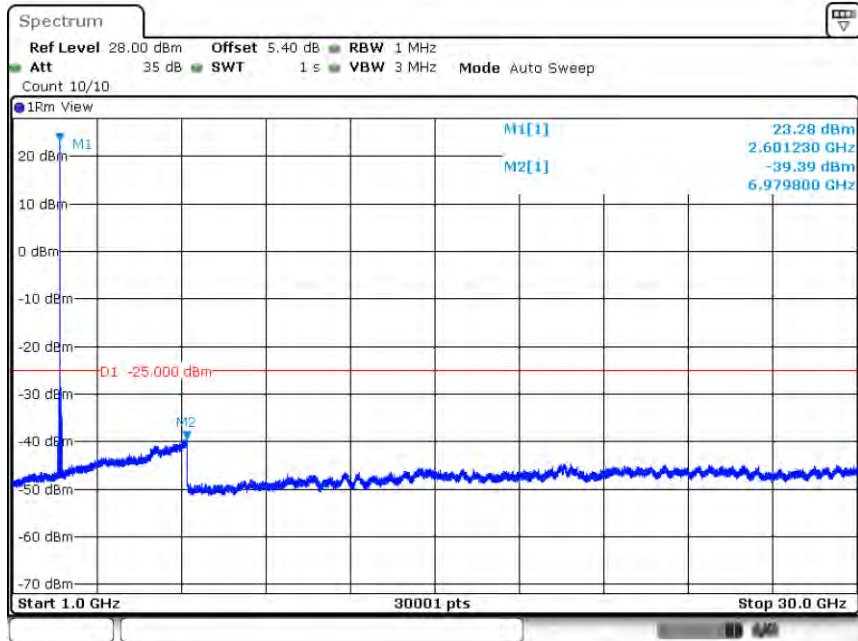


Date: 22.OCT.2020 00:57:53



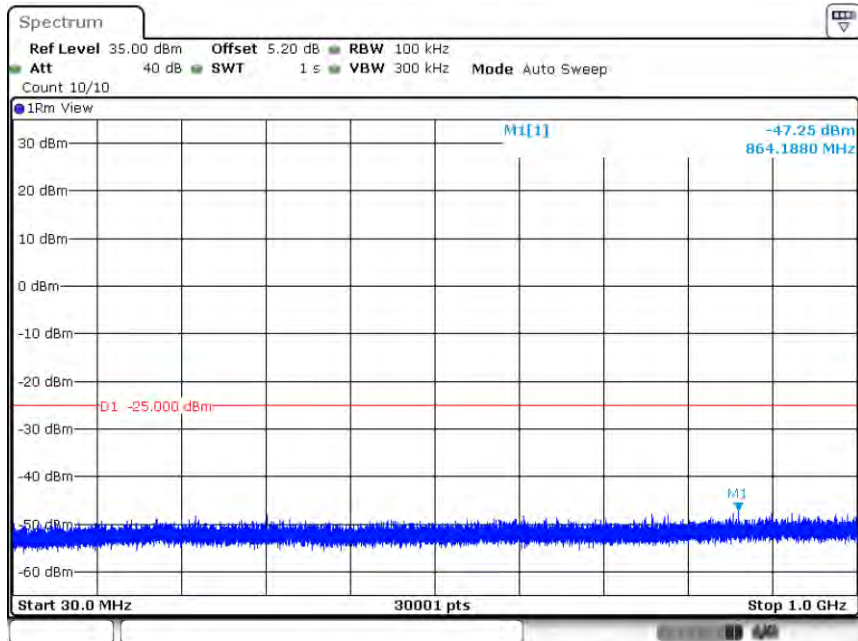
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**Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz**



Date: 22.OCT.2020 00:58:10

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



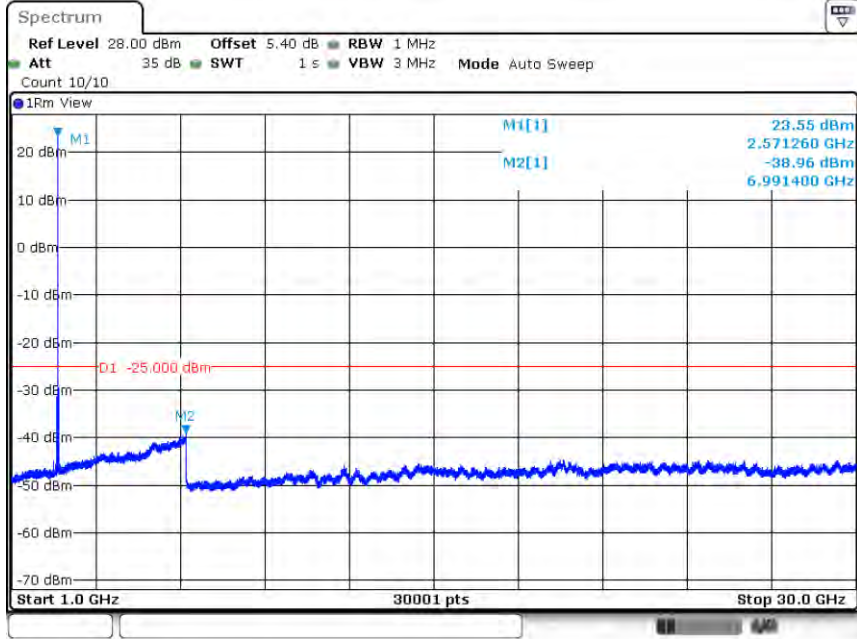
Date: 22.OCT.2020 11:55:42



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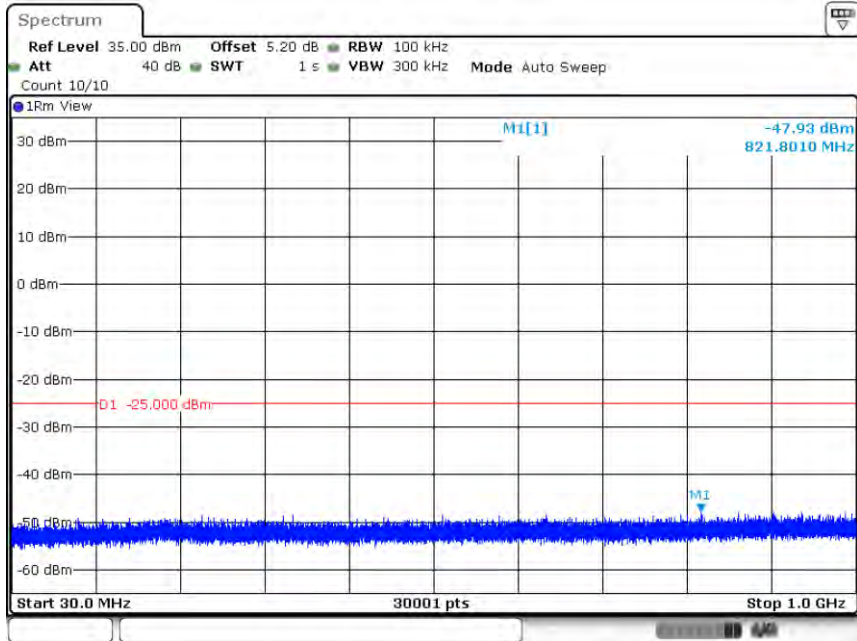


**Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz**



Date: 22.OCT.2020 11:56:00

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

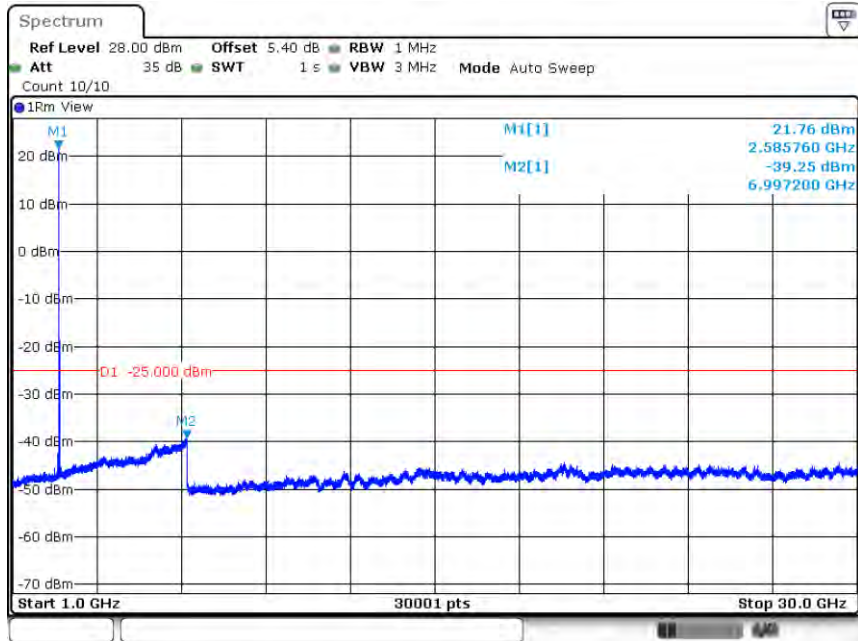


Date: 22.OCT.2020 11:56:22



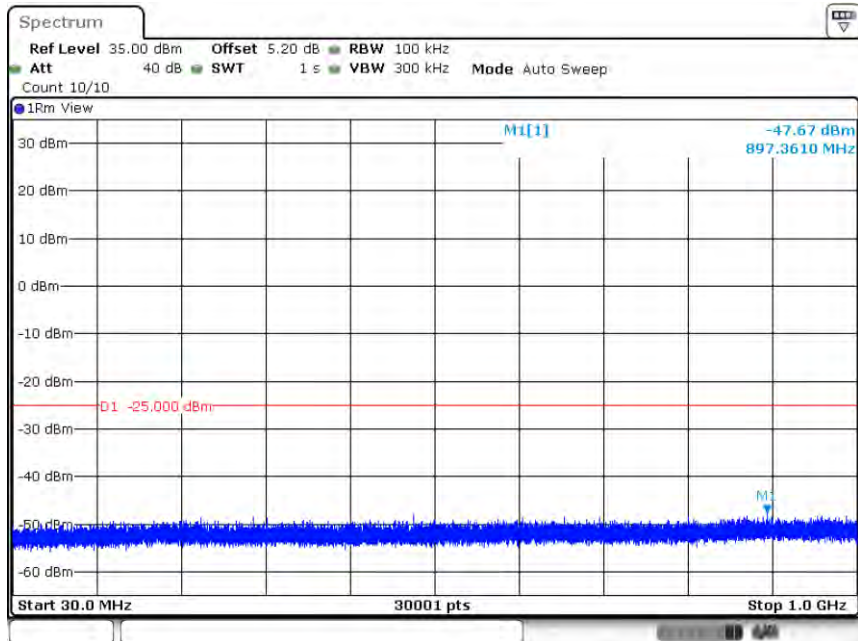
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**Band38-20MHz-64QAM-38000-1RB#0-Range2:1000~30000MHz**



Date: 22.OCT.2020 11:56:39

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

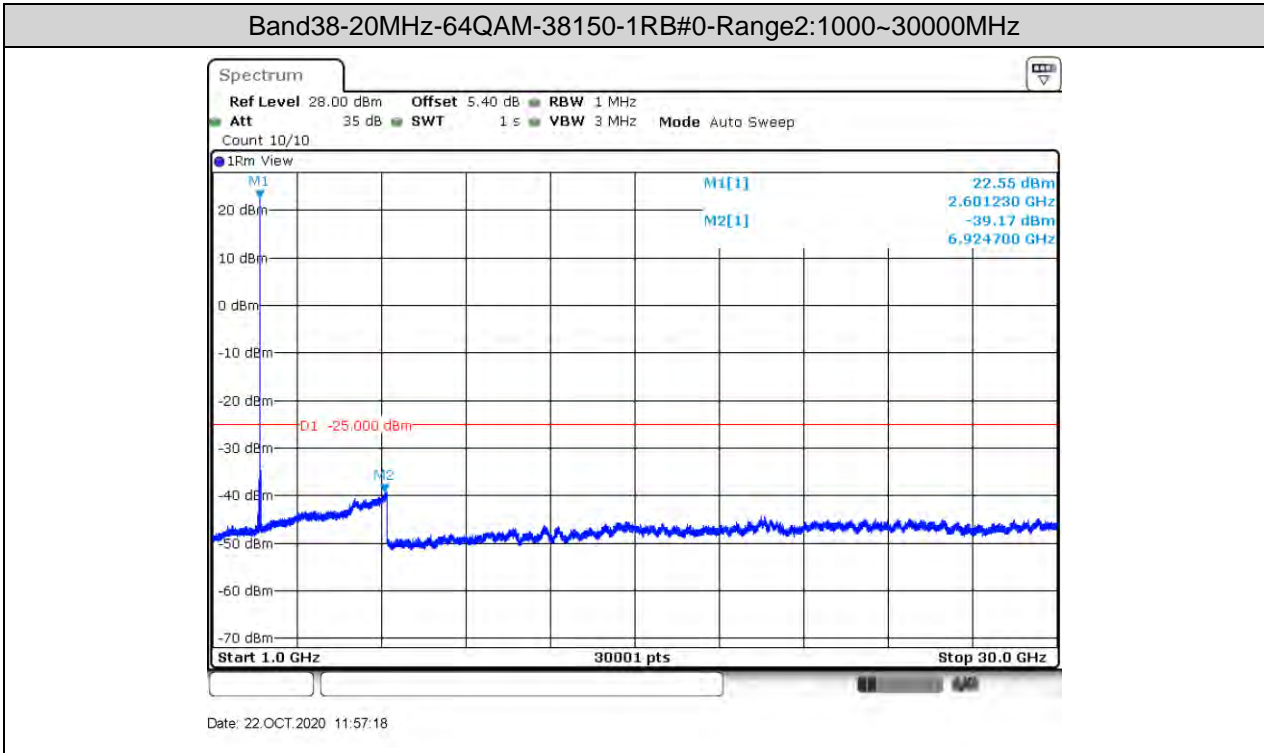


Date: 22.OCT.2020 11:57:01



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## 7 Field Strength of Spurious Radiation

### Firstly Supply:

#### 7.1 Test Band = LTE\_38\_TM1

##### 7.1.1 Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.8232	-62.07	-25.00	37.07	Horizontal
2	77.8234	-74.52	-25.00	49.52	Horizontal
3	232.3521	-67.89	-25.00	42.89	Horizontal
4	5142.0714	-57.37	-25.00	32.37	Horizontal
5	9322.2107	-52.14	-25.00	27.14	Horizontal
6	16382.946	-43.95	-25.00	18.95	Horizontal



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**7.2 Test Band = LTE\_38\_TM1**

**7.2.1 Test Channel = Low Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.6790	-70.74	-25.00	45.74	Vertical
2	110.1745	-64.83	-25.00	39.83	Vertical
3	375.8708	-67.07	-25.00	42.07	Vertical
4	5142.0714	-52.05	-25.00	27.05	Vertical
5	10665.755	-51.25	-25.00	26.25	Vertical
6	17996.499	-39.84	-25.00	14.84	Vertical



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**7.3 Test Band = LTE\_38\_TM1**

**7.3.1 Test Channel = Middle Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.2526	-63.42	-25.00	38.42	Horizontal
2	113.9577	-74.78	-25.00	49.78	Horizontal
3	239.9185	-68.03	-25.00	43.03	Horizontal
4	5172.0724	-56.87	-25.00	31.87	Horizontal
5	9965.2322	-52.77	-25.00	27.77	Horizontal
6	16388.446	-43.75	-25.00	18.75	Horizontal



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**7.4 Test Band = LTE\_38\_TM1**

**7.4.1 Test Channel = Middle Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.6790	-66.21	-25.00	41.21	Vertical
2	110.2230	-63.72	-25.00	38.72	Vertical
3	462.1566	-66.86	-25.00	41.86	Vertical
4	5172.0724	-53.91	-25.00	28.91	Vertical
5	10716.757	-51.47	-25.00	26.47	Vertical
6	17991.499	-40.53	-25.00	15.53	Vertical



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**7.5 Test Band = LTE\_38\_TM1**

**7.5.1 Test Channel = High Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.4951	-62.87	-25.00	37.87	Horizontal
2	230.1695	-67.18	-25.00	42.18	Horizontal
3	1591.3183	-44.14	-25.00	19.14	Horizontal
4	5202.5734	-60.80	-25.00	35.80	Horizontal
5	10006.233	-52.31	-25.00	27.31	Horizontal
6	16399.446	-43.96	-25.00	18.96	Horizontal



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**7.6 Test Band = LTE\_38\_TM1**

**7.6.1 Test Channel = High Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	51.8746	-62.49	-25.00	37.49	Vertical
2	112.2601	-63.85	-25.00	38.85	Vertical
3	1773.7548	-42.07	-25.00	17.07	Vertical
4	5202.0734	-55.04	-25.00	30.04	Vertical
5	14484.882	-47.54	-25.00	22.54	Vertical
6	17994.999	-40.56	-25.00	15.56	Vertical



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**Secondly Supply:**

**7.7 Test Band = LTE\_38\_TM1**

**7.7.1 Test Channel = Low Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.5735	-63.65	-25.00	38.65	Horizontal
2	582.4426	-63.11	-25.00	38.11	Horizontal
3	1808.1616	-42.68	-25.00	17.68	Horizontal
4	5142.0714	-60.29	-25.00	35.29	Horizontal
5	7472.1491	-56.18	-25.00	31.18	Horizontal
6	16379.946	-43.39	-25.00	18.39	Horizontal



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**7.8 Test Band = LTE\_38\_TM1**

**7.8.1 Test Channel = Low Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	78.7449	-55.50	-25.00	30.50	Vertical
2	584.2857	-63.32	-25.00	38.32	Vertical
3	1724.1448	-43.62	-25.00	18.62	Vertical
4	5142.0714	-57.97	-25.00	32.97	Vertical
5	14469.382	-47.19	-25.00	22.19	Vertical
6	17999.500	-39.15	-25.00	14.15	Vertical

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		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-7.60	-0.002946	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	32.30	0.012519	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-4.20	-0.001628	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-2.90	-0.001118	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-3.30	-0.001272	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-3.50	-0.001349	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-1.30	-0.000498	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-4.10	-0.001571	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-4.80	-0.001839	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-3.10	-0.001202	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-1.30	-0.000504	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-1.30	-0.000504	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-6.20	-0.002389	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-5.10	-0.001965	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-4.80	-0.001850	±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	-8.30	-0.003180	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-3.80	-0.001456	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VL	NT	-0.90	-0.000349	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VN	NT	12.70	0.004922	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VH	NT	-4.00	-0.001550	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-7.10	-0.002736	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	-2.70	-0.001040	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	-2.20	-0.000848	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VL	NT	-3.90	-0.001494	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VN	NT	-7.90	-0.003027	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VH	NT	-7.10	-0.002720	±2.5	PASS



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## 8.2 Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-2.00	-0.000775	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-0.70	-0.000271	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-10	-3.90	-0.001512	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-2.30	-0.000891	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-7.00	-0.002713	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-2.70	-0.001047	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-7.10	-0.002752	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-2.90	-0.001124	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-5.90	-0.002287	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-4.40	-0.001696	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-3.10	-0.001195	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-3.10	-0.001195	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-7.70	-0.002967	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-1.90	-0.000732	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-3.60	-0.001387	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-8.80	-0.003391	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-4.70	-0.001811	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-5.10	-0.001965	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-2.50	-0.000958	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	-5.50	-0.002107	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-4.80	-0.001839	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-1.50	-0.000575	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-3.10	-0.001188	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-3.70	-0.001418	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-5.00	-0.001916	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-4.60	-0.001762	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-2.10	-0.000814	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-4.80	-0.001860	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-10	-4.50	-0.001744	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-5.00	-0.001938	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-1.60	-0.000620	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-8.40	-0.003256	±2.5	PASS



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Band38	20MHz	16QAM	37850	100RB#0	NV	30	-2.50	-0.000969	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-1.90	-0.000736	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-7.10	-0.002752	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-3.40	-0.001310	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-6.50	-0.002505	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-10	-4.90	-0.001888	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-5.60	-0.002158	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-4.50	-0.001734	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-2.60	-0.001002	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-4.20	-0.001618	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-7.50	-0.002890	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-4.70	-0.001811	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-6.20	-0.002375	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-8.10	-0.003103	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-10	-5.20	-0.001992	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-0.20	-0.000077	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-3.00	-0.001149	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-6.00	-0.002299	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-5.10	-0.001954	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-3.10	-0.001188	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-30	-4.80	-0.001860	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-20	-7.20	-0.002791	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-10	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	0	-4.40	-0.001705	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	10	-5.80	-0.002248	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	20	-5.00	-0.001938	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	30	-7.50	-0.002907	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	40	-6.10	-0.002364	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	50	-4.80	-0.001860	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	-7.20	-0.002775	±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	-10	-3.20	-0.001233	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-4.60	-0.001773	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-1.50	-0.000578	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-3.30	-0.001272	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-2.70	-0.001040	±2.5	PASS



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Band38	20MHz	64QAM	38000	100RB#0	NV	40	-3.90	-0.001503	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-6.30	-0.002428	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-30	-8.20	-0.003142	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-20	-5.40	-0.002069	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-10	-3.20	-0.001226	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	0	0.40	0.000153	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	10	-2.60	-0.000996	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	20	-4.90	-0.001877	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	30	-3.60	-0.001379	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	40	-2.20	-0.000843	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	50	-1.50	-0.000575	±2.5	PASS

The End



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