



# Appendix B

## E-UTRA Band 7



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.22	19.92	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.45	20.15	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.24	19.94	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.44	19.14	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.43	19.13	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.32	19.02	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.38	19.08	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.30	21	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.03	20.73	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.05	20.75	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.25	19.95	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.23	19.93	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.15	19.85	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.22	19.92	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.66	21.36	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.39	21.09	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.42	21.12	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.54	20.24	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.59	20.29	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.58	20.28	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.57	20.27	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.58	19.28	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.79	19.49	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.45	19.15	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#0	20.76	18.46	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#13	20.65	18.35	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#6	20.75	18.45	33.00	PASS



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Band7	5MHz	64QAM	20775	25RB#0	20.78	18.48	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.10	18.8	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.41	19.11	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.11	18.81	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#6	20.20	17.9	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#0	20.21	17.91	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#13	20.13	17.83	33.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.20	17.9	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.53	19.23	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.70	19.4	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.42	19.12	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#0	20.54	18.24	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#6	20.56	18.26	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#13	20.49	18.19	33.00	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.54	18.24	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.43	19.13	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.28	18.98	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.57	19.27	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.43	18.13	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.42	18.12	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.34	18.04	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.36	18.06	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.14	19.84	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.43	20.13	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.19	19.89	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.15	18.85	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.25	18.95	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.20	18.9	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.20	18.9	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.53	20.23	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.63	20.33	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.80	20.5	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.51	19.21	33.00	PASS



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Band7	5MHz	16QAM	21425	12RB#0	21.52	19.22	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.57	19.27	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.52	19.22	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.78	20.48	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.84	20.54	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.78	20.48	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.92	19.62	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.85	20.55	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.93	19.63	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.98	19.68	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.30	21	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.04	20.74	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.18	20.88	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.27	19.97	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	23.57	21.27	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.30	20	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.38	20.08	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.53	21.23	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.63	21.33	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.51	21.21	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.58	20.28	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.59	20.29	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.61	20.31	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.59	20.29	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#24	20.90	18.6	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#49	20.93	18.63	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#0	20.80	18.5	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#0	19.97	17.67	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#25	19.91	17.61	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#12	19.87	17.57	33.00	PASS
Band7	10MHz	64QAM	20800	50RB#0	19.92	17.62	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.19	18.89	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.29	18.99	33.00	PASS



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Band7	10MHz	64QAM	21100	1RB#49	21.36	19.06	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#25	20.20	17.9	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#0	20.35	18.05	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#12	20.26	17.96	33.00	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.29	17.99	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.69	19.39	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.53	19.23	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.59	19.29	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#0	20.53	18.23	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#12	20.55	18.25	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#25	20.55	18.25	33.00	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.56	18.26	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.84	19.54	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.03	19.73	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.04	19.74	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.92	18.62	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.92	18.62	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.01	18.71	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.96	18.66	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.41	20.11	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.33	20.03	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.23	19.93	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.36	19.06	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.23	18.93	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.30	19	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.33	19.03	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.71	20.41	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.73	20.43	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.58	20.28	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.55	19.25	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.54	19.24	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.51	19.21	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.54	19.24	33.00	PASS



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Band7	15MHz	QPSK	20825	1RB#0	22.75	20.45	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.56	20.26	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.15	20.85	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	21.50	19.2	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	21.68	19.38	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	21.63	19.33	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.53	19.23	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.85	20.55	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.22	20.92	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.08	20.78	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	23.62	21.32	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.30	20	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.29	19.99	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.28	19.98	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.44	21.14	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.05	20.75	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.30	21	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.57	20.27	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	22.58	20.28	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.44	20.14	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.53	20.23	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#38	20.97	18.67	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#74	20.96	18.66	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#0	20.72	18.42	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#18	19.86	17.56	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#0	19.90	17.6	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#39	19.94	17.64	33.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	19.93	17.63	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.32	19.02	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.12	18.82	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.22	18.92	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#39	20.18	17.88	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#18	20.22	17.92	33.00	PASS



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Band7	15MHz	64QAM	21100	36RB#0	20.27	17.97	33.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.27	17.97	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.54	19.24	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.44	19.14	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.60	19.3	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#0	20.43	18.13	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#39	20.53	18.23	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#18	20.54	18.24	33.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.51	18.21	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.77	19.47	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.79	19.49	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.82	19.52	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	20.52	18.22	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	20.60	18.3	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	20.80	18.5	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.67	18.37	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.38	20.08	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.90	19.6	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.12	19.82	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.29	18.99	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	21.27	18.97	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	21.25	18.95	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.31	19.01	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.17	19.87	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.52	20.22	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.49	20.19	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	21.43	19.13	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	21.51	19.21	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	21.51	19.21	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.49	19.19	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.51	20.21	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.19	19.89	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.77	21.47	33.00	PASS



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Band7	20MHz	QPSK	20850	50RB#25	21.49	19.19	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.51	19.21	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.73	19.43	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.60	19.3	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.53	20.23	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.48	20.18	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.83	20.53	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	23.59	21.29	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.88	19.58	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.82	19.52	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.82	19.52	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	24.23	21.93	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.90	20.6	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.89	20.59	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.11	19.81	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.88	19.58	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.07	19.77	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.00	19.7	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#0	20.70	18.4	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.12	18.82	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#99	20.98	18.68	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#50	20.16	17.86	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#0	19.98	17.68	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#25	19.94	17.64	33.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.05	17.75	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.06	18.76	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.33	19.03	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.28	18.98	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#0	20.39	18.09	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#25	20.29	17.99	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#50	20.13	17.83	33.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.22	17.92	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.42	19.12	33.00	PASS



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Band7	20MHz	64QAM	21350	1RB#0	21.51	19.21	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.66	19.36	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#0	20.35	18.05	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#50	20.58	18.28	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#25	20.57	18.27	33.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.51	18.21	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.31	19.01	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.75	19.45	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.56	19.26	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.53	18.23	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.50	18.2	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.72	18.42	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.60	18.3	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.64	19.34	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.91	19.61	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.91	19.61	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.92	18.62	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.88	18.58	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.68	18.38	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.89	18.59	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.04	19.74	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.03	19.73	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.21	19.91	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.06	18.76	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.11	18.81	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.88	18.58	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.00	18.7	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
Band7	20MHz	QPSK	20850	100RB#0	5.13	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.99	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.04	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.23	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.17	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.23	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.88	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.80	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.88	13	PASS

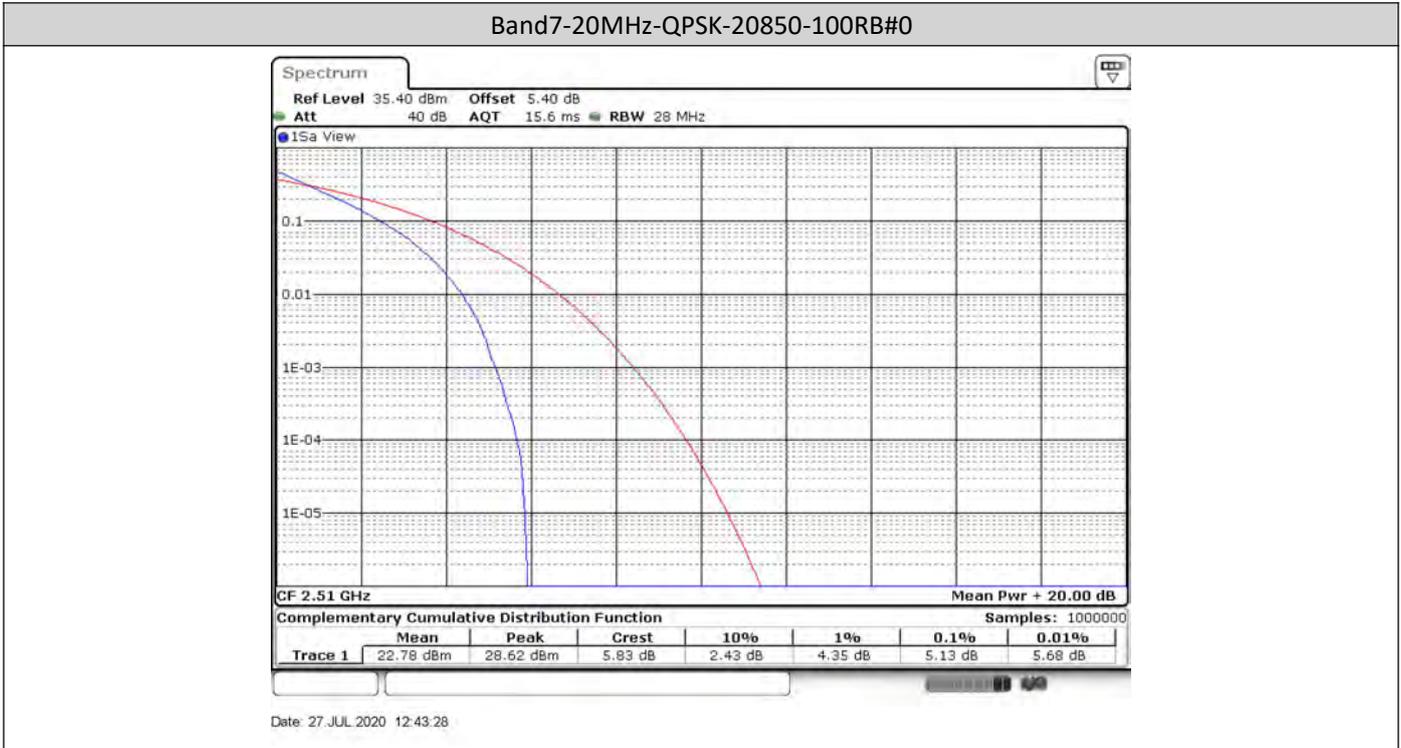


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## 2.2. Test Plots

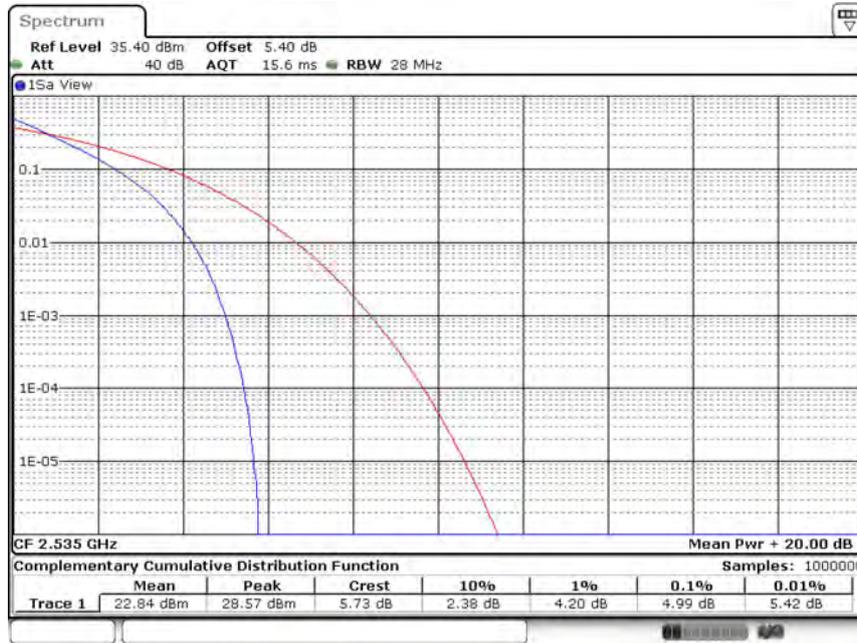


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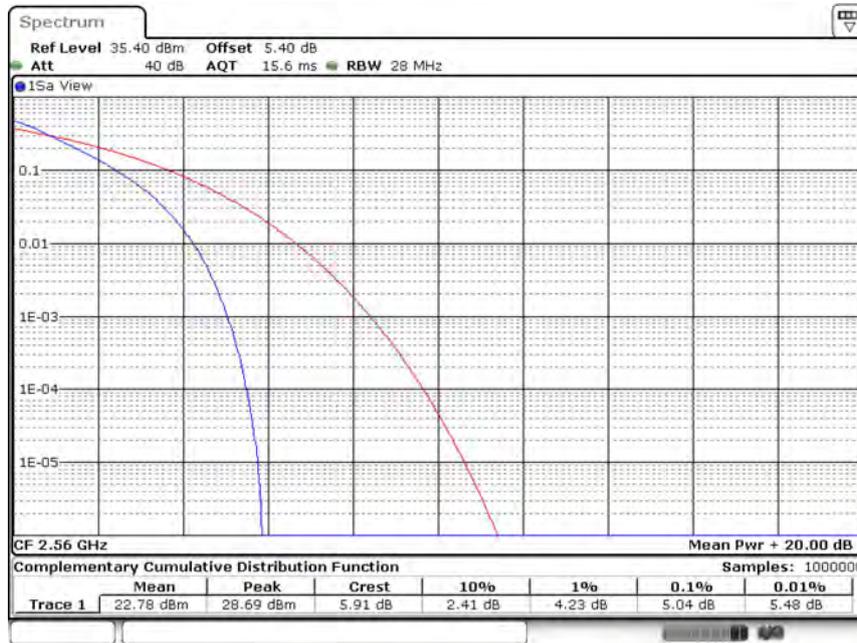
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**Band7-20MHz-QPSK-21100-100RB#0**



Date: 27 JUL 2020 12:43:51

**Band7-20MHz-QPSK-21350-100RB#0**



Date: 27 JUL 2020 12:44:14



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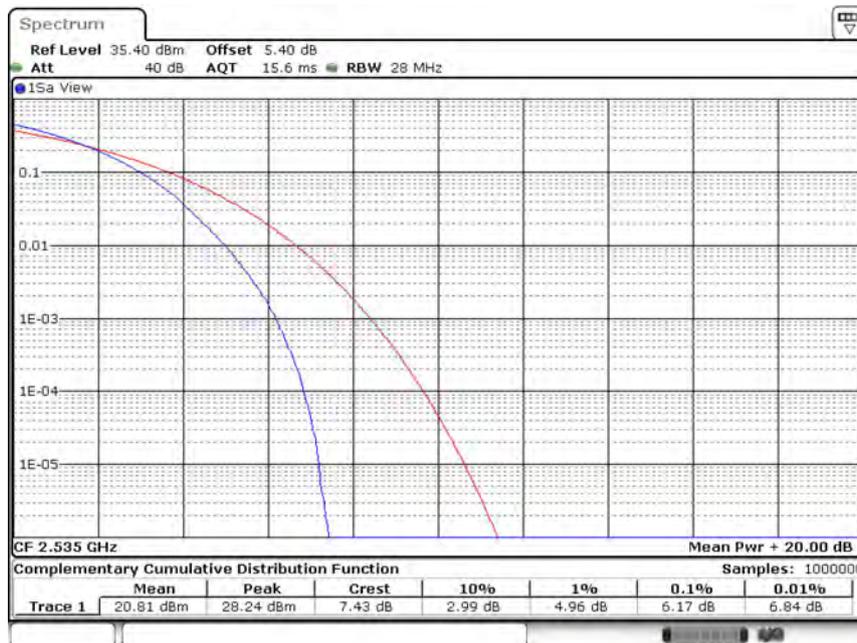
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**Band7-20MHz-64QAM-20850-100RB#0**



Date: 27 JUL 2020 12:56:26

**Band7-20MHz-64QAM-21100-100RB#0**



Date: 27 JUL 2020 12:56:38



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**Band7-20MHz-64QAM-21350-100RB#0**



Date: 27 JUL 2020 12:56:49

**Band7-20MHz-16QAM-20850-100RB#0**



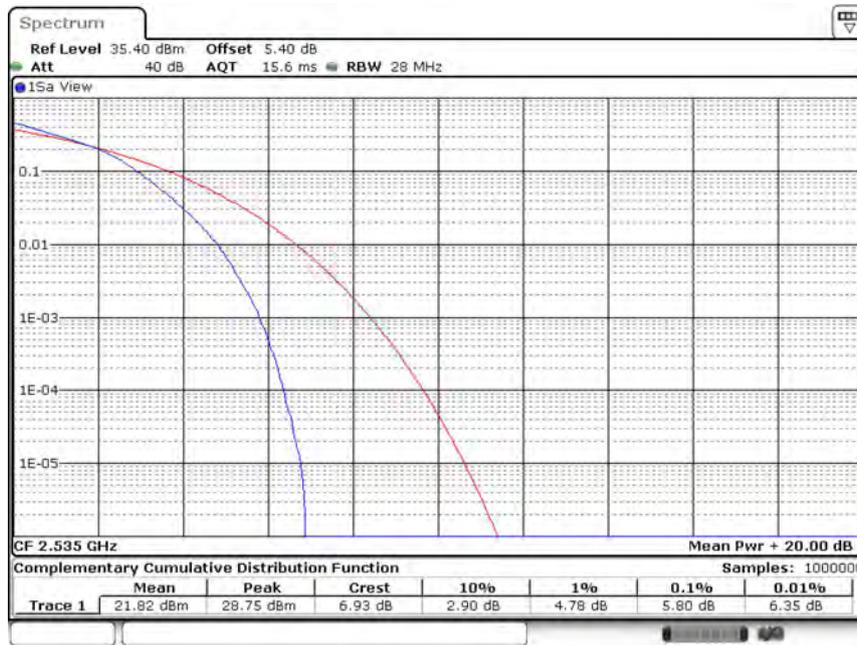
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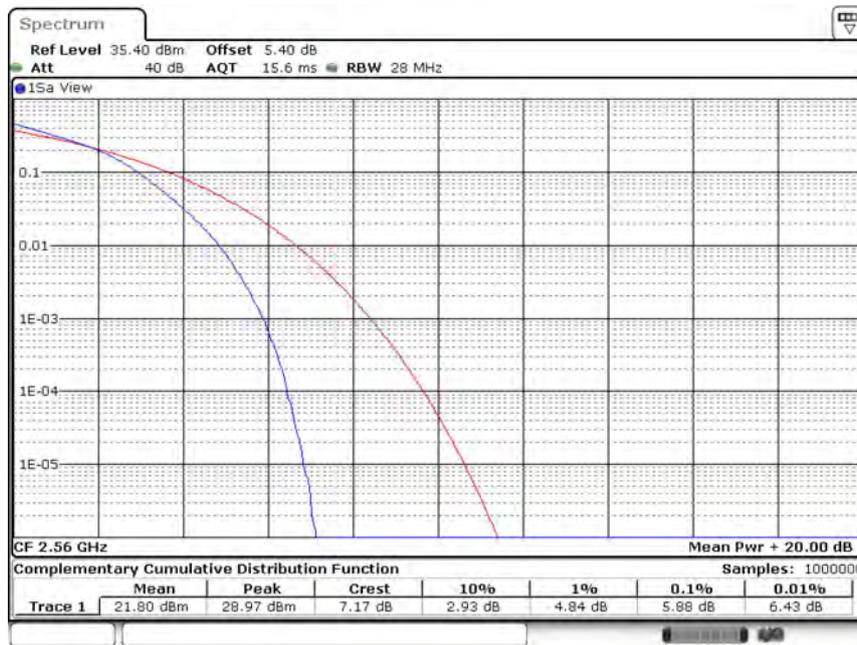
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**Band7-20MHz-16QAM-21100-100RB#0**



Date: 27 JUL 2020 12:44:02

**Band7-20MHz-16QAM-21350-100RB#0**



Date: 27 JUL 2020 12:44:25



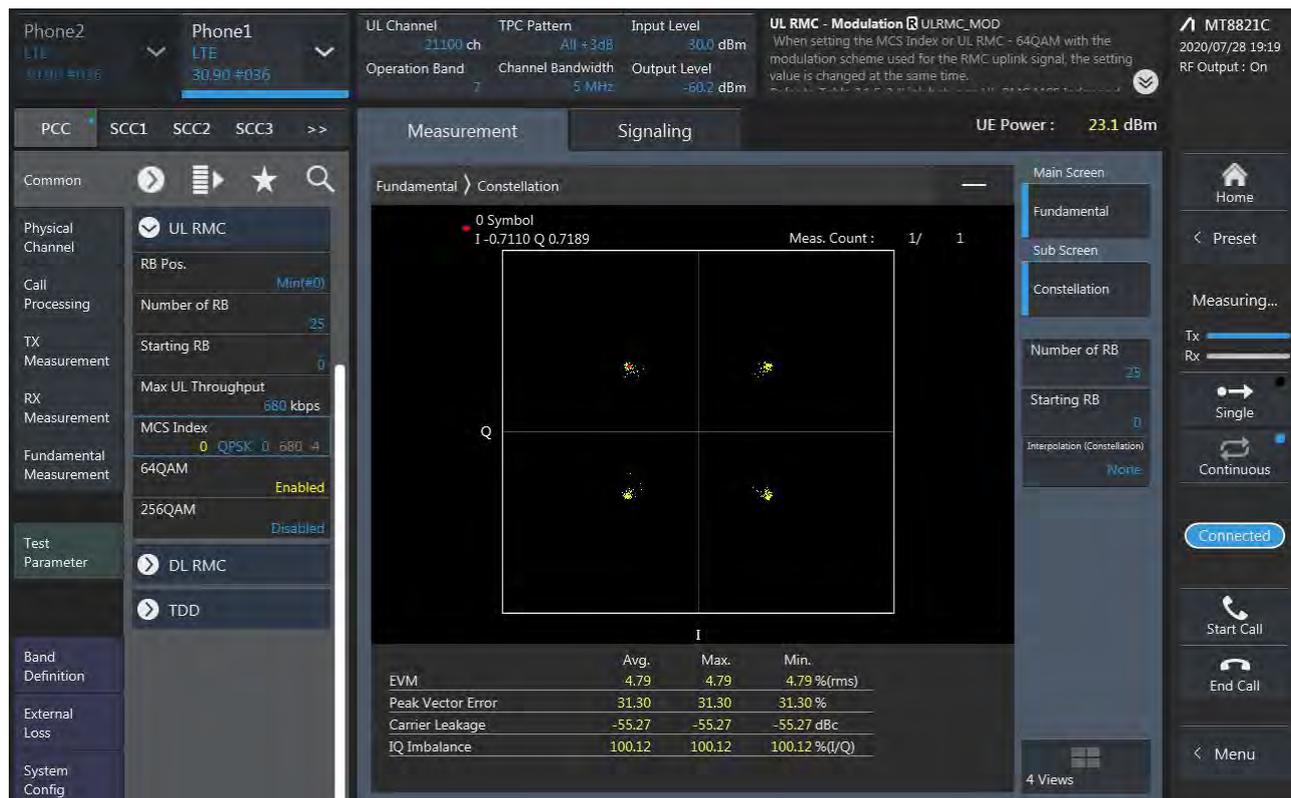
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### 3. Modulation Characteristics

#### 3.1.1. Test Mode = LTE /TM1 20MHz

##### 3.1.1.1. Test Channel = MCH



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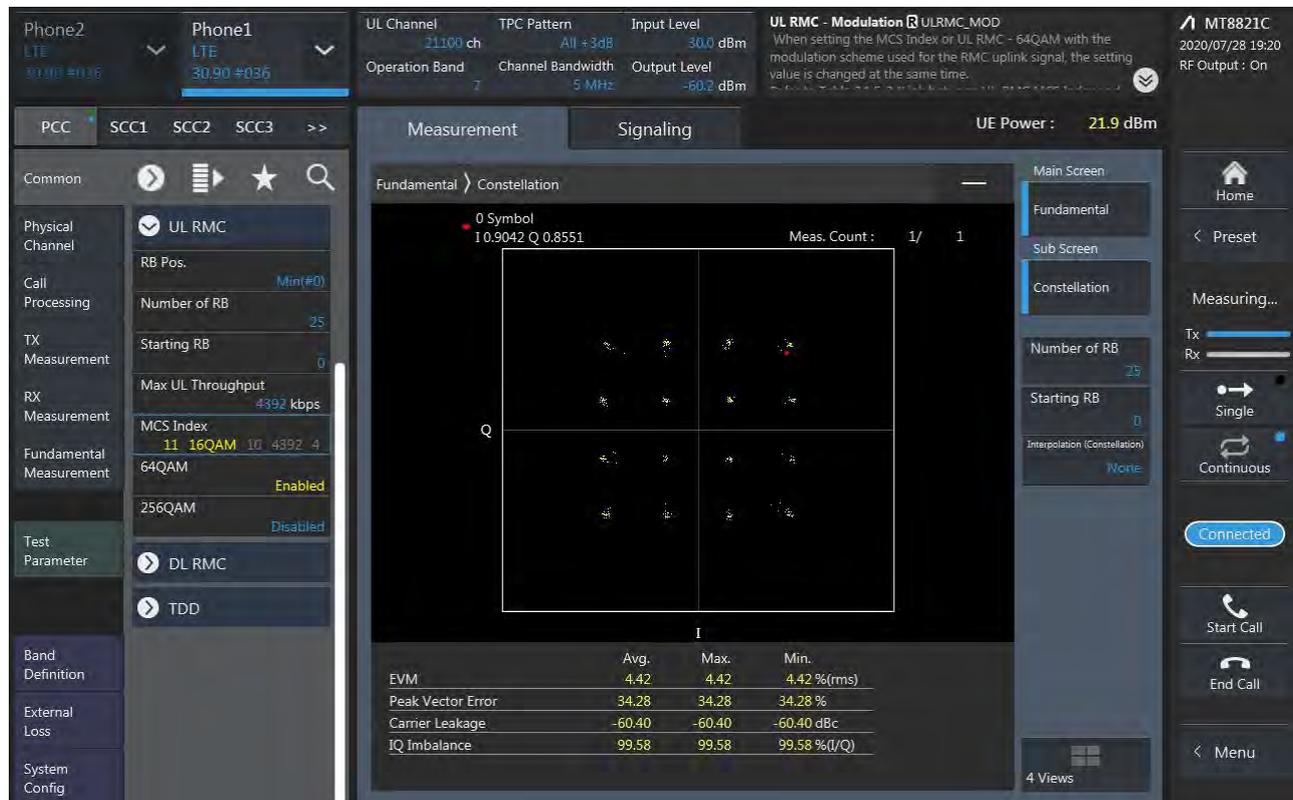
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### 3.1.2. Test Mode = LTE /TM2 20MHz

#### 3.1.2.1. Test Channel = MCH



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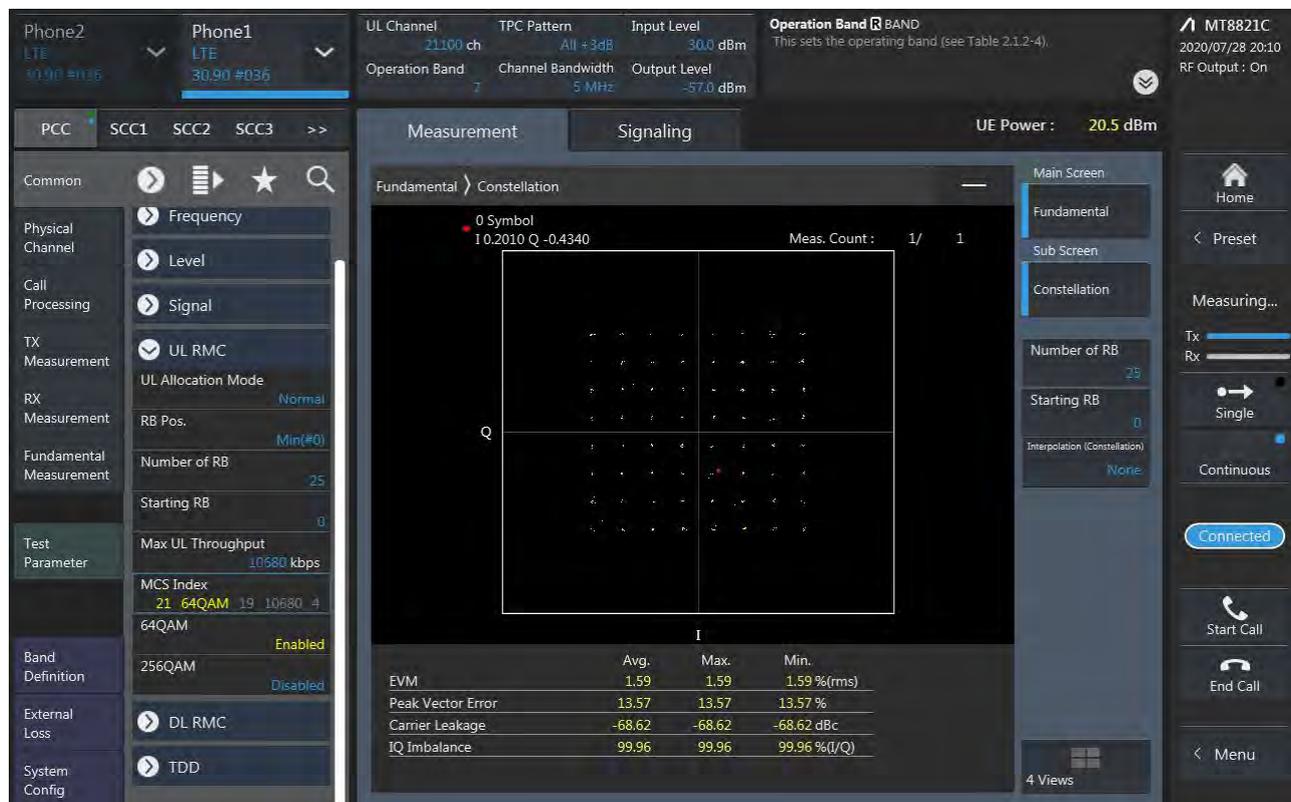
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### 3.1.3. Test Mode = LTE /TM3 20MHz

#### 3.1.3.1. 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
Band7	5MHz	QPSK	20775	25RB#0	4.476	4.840	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.830	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.830	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.476	4.870	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.476	4.820	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.476	4.820	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.476	4.850	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.860	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.486	4.870	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.640	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.951	9.620	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.931	9.600	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.951	9.580	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.931	9.580	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.911	9.600	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.951	9.640	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.931	9.580	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.931	9.680	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.487	14.760	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.457	14.610	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.487	14.700	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.457	14.790	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.457	14.730	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.427	14.820	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.487	15.360	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.457	14.610	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.457	14.670	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.902	19.240	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.902	19.360	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.902	19.320	PASS

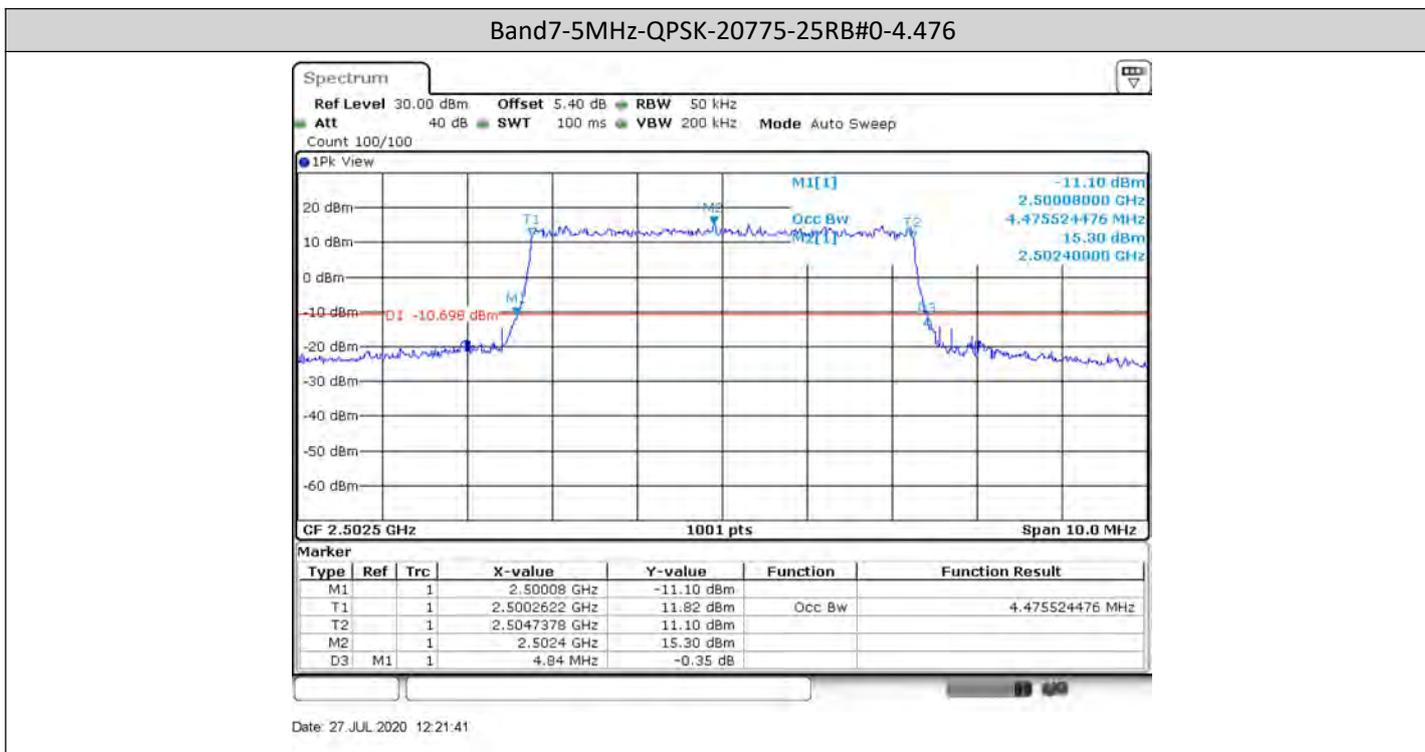


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Band7	20MHz	64QAM	20850	100RB#0	17.902	19.360	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.862	19.240	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.902	19.320	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.942	19.320	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.902	19.240	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.902	19.280	PASS

## 4.2. Test Plots



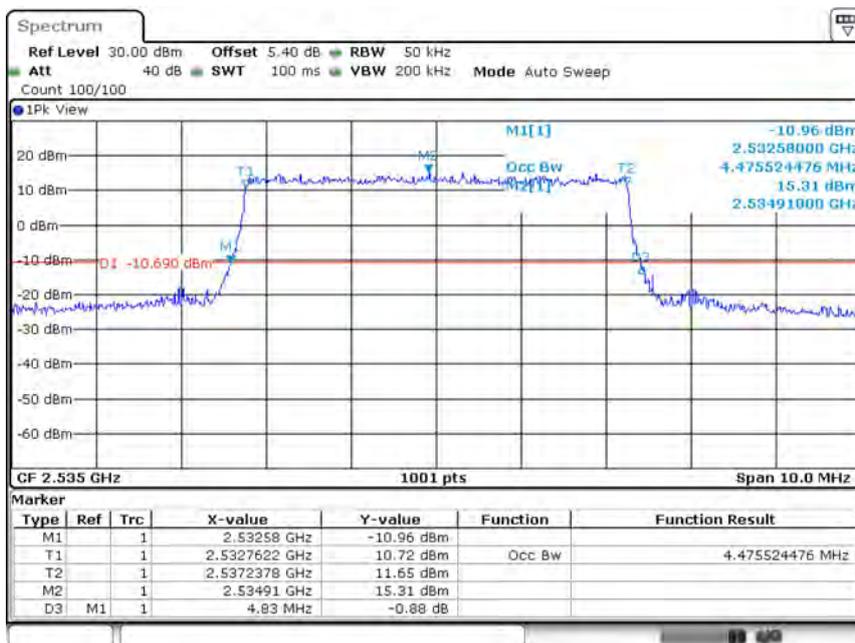
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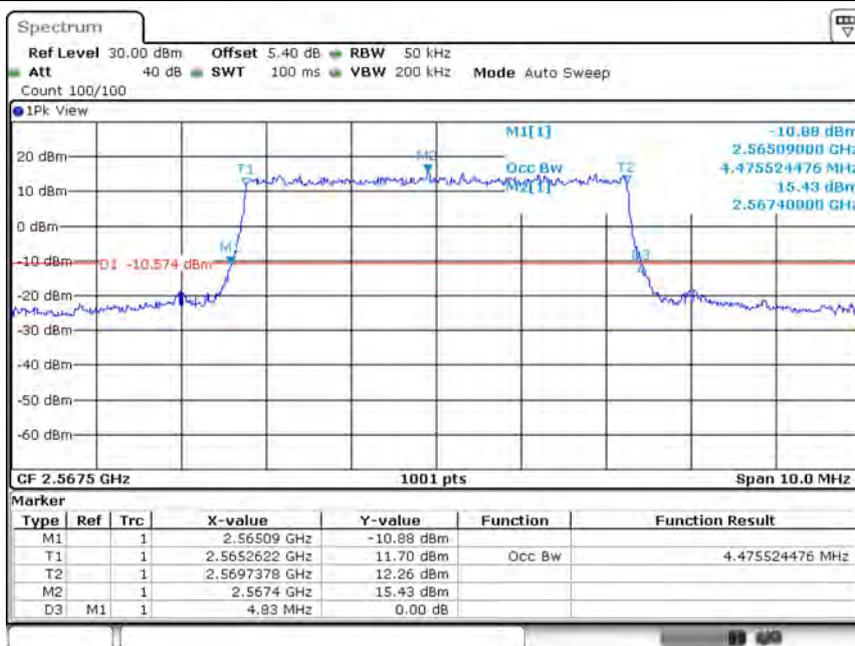


**Band7-5MHz-QPSK-21100-25RB#0-4.476**



Date: 27 JUL 2020 12:22:21

**Band7-5MHz-QPSK-21425-25RB#0-4.476**



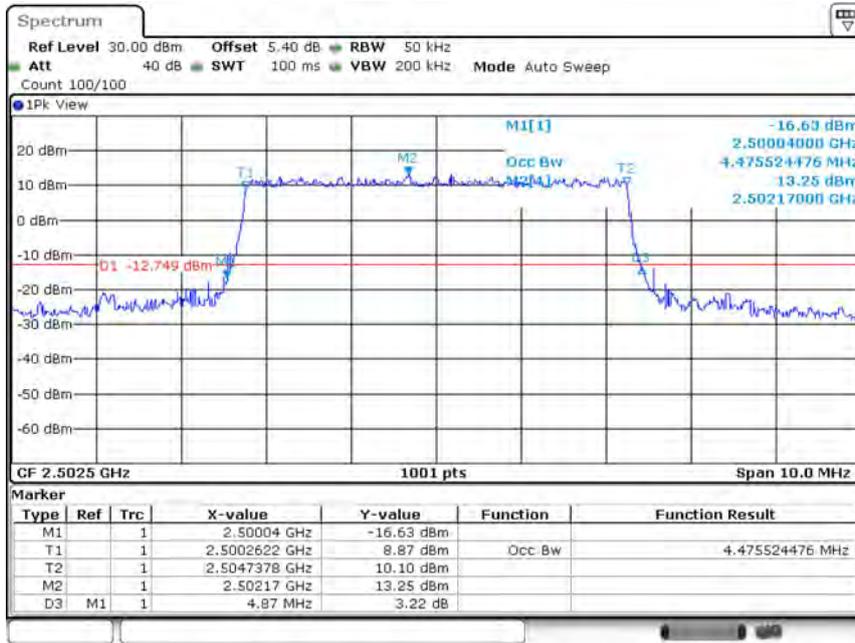
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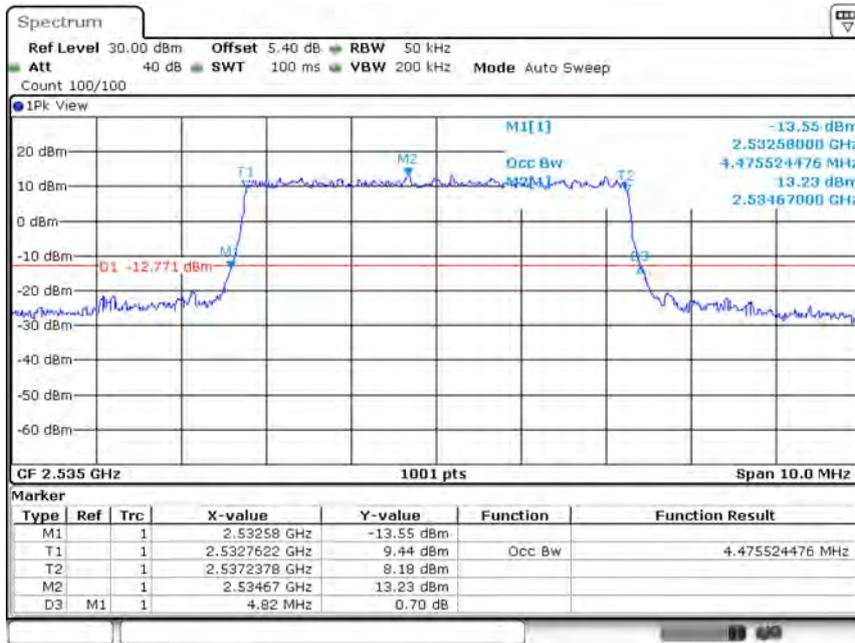


**Band7-5MHz-64QAM-20775-25RB#0-4.476**



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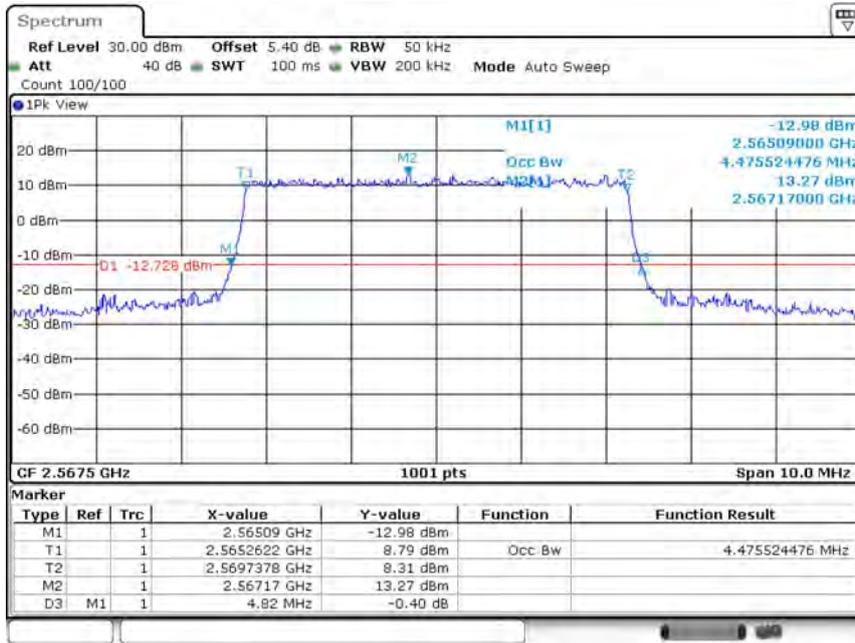
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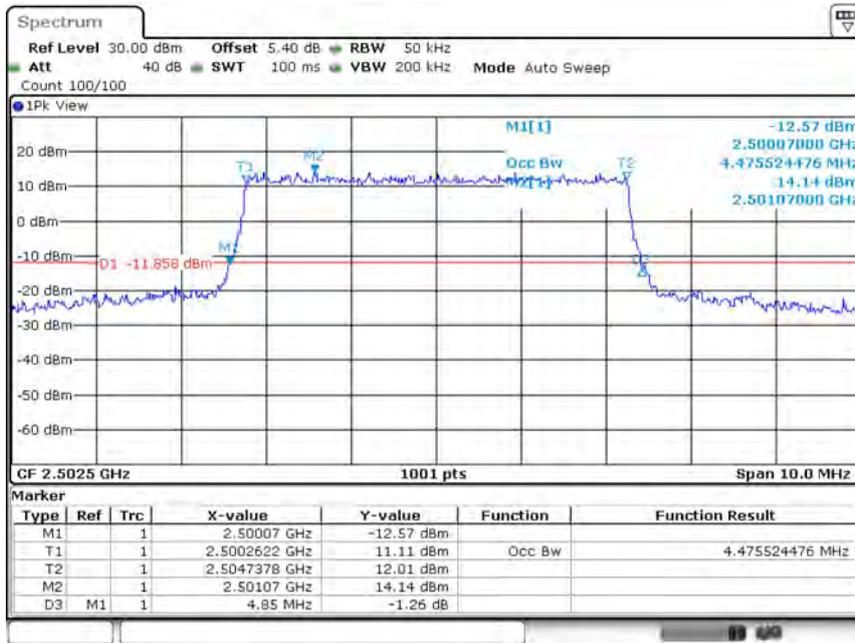
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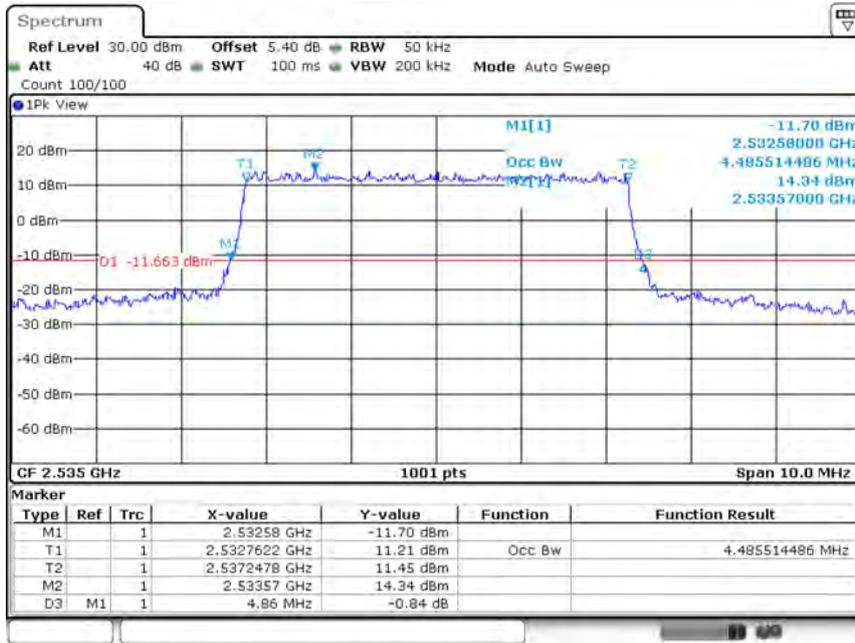


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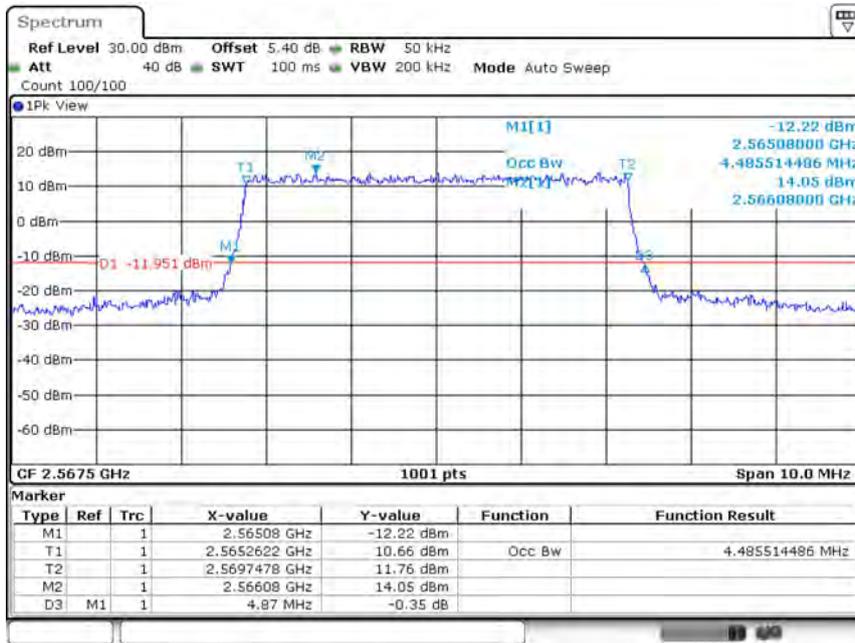


**Band7-5MHz-16QAM-21100-25RB#0-4.486**



Date: 27 JUL 2020 12:22:40

**Band7-5MHz-16QAM-21425-25RB#0-4.486**



Date: 27 JUL 2020 12:23:20



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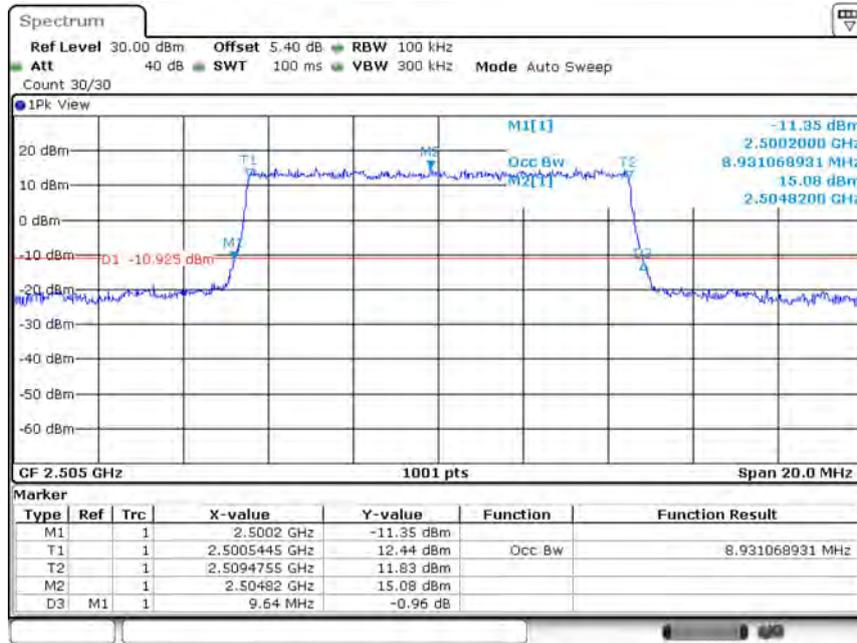
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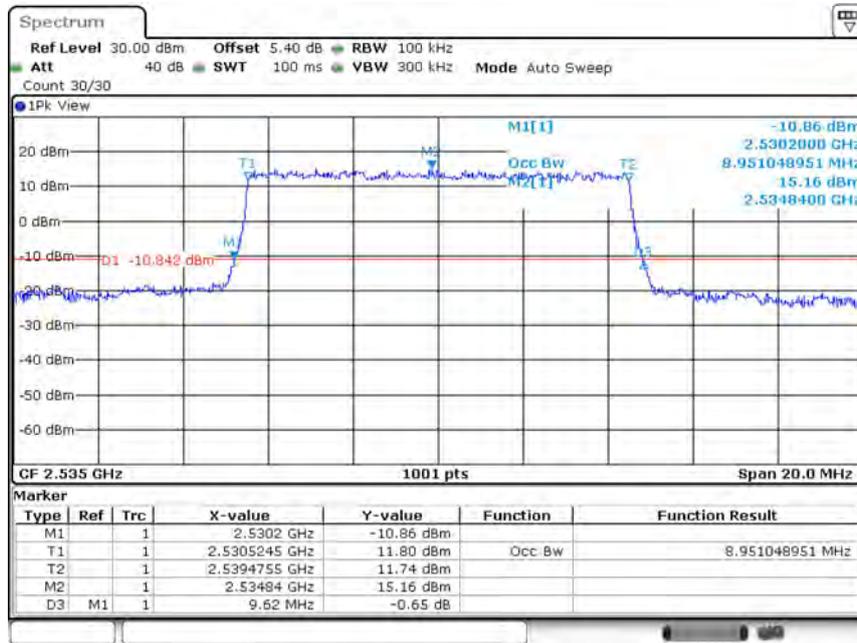


**Band7-10MHz-QPSK-20800-50RB#0-8.931**



Date: 27 JUL 2020 12:23:37

**Band7-10MHz-QPSK-21100-50RB#0-8.951**



Date: 27 JUL 2020 12:24:03



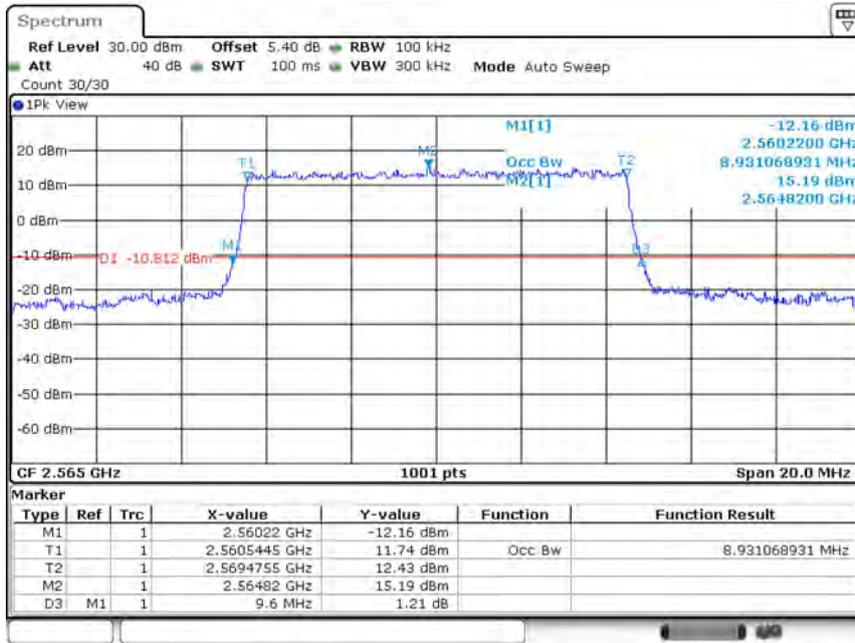
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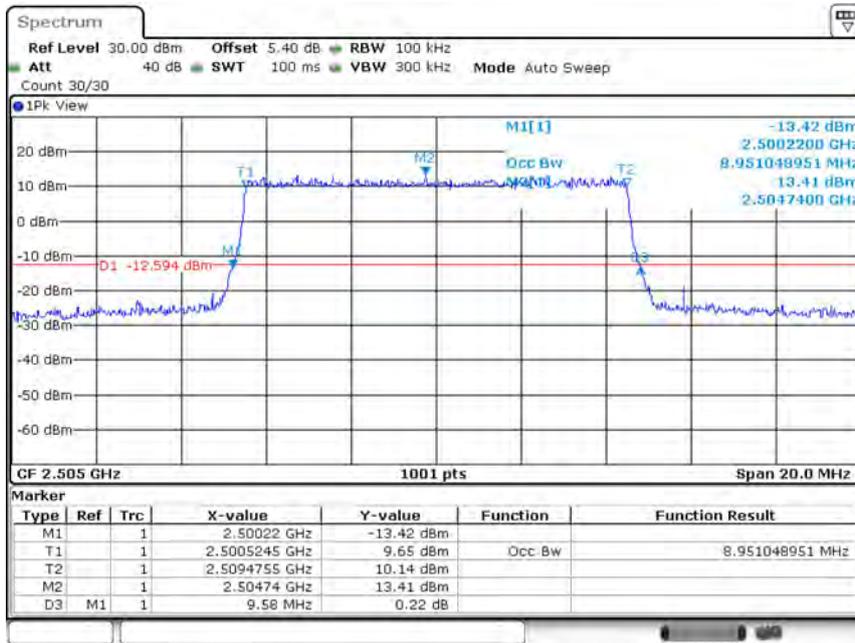
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**Band7-10MHz-QPSK-21400-50RB#0-8.931**



Date: 27 JUL 2020 12:24:28

**Band7-10MHz-64QAM-20800-50RB#0-8.951**



Date: 27 JUL 2020 12:45:47



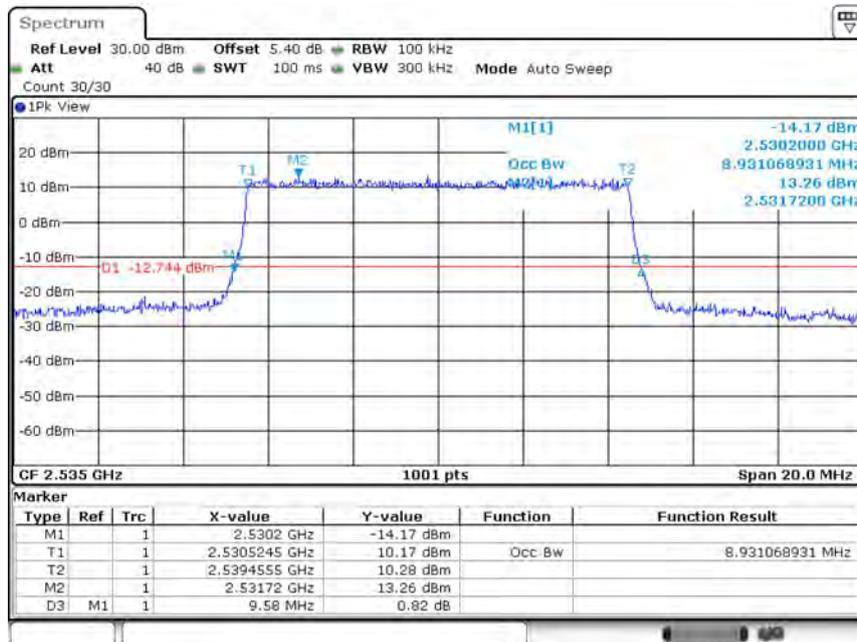
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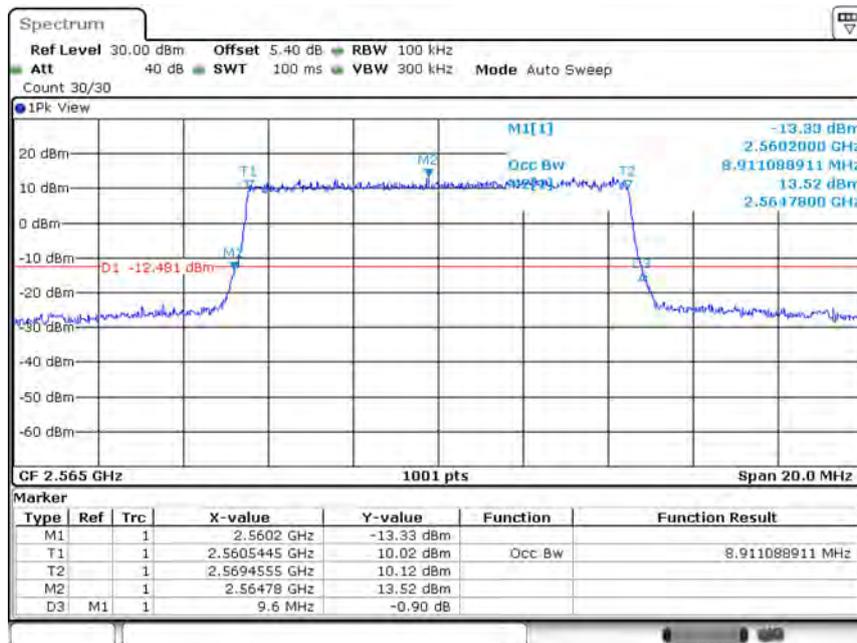
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**Band7-10MHz-64QAM-21100-50RB#0-8.931**



Date: 27 JUL 2020 12:46:00

**Band7-10MHz-64QAM-21400-50RB#0-8.911**



Date: 27 JUL 2020 12:46:13

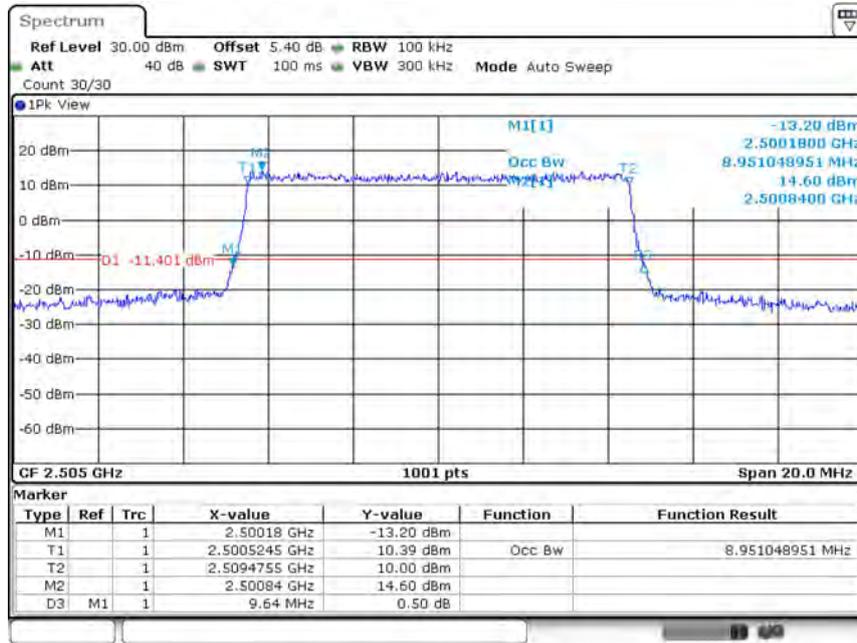


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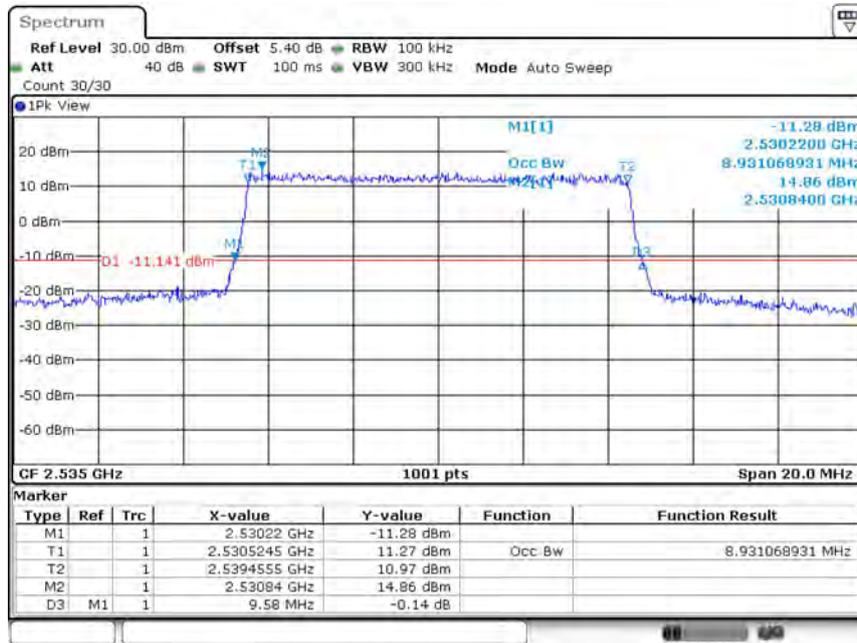


**Band7-10MHz-16QAM-20800-50RB#0-8.951**



Date: 27 JUL 2020 12:23:50

**Band7-10MHz-16QAM-21100-50RB#0-8.931**



Date: 27 JUL 2020 12:24:15

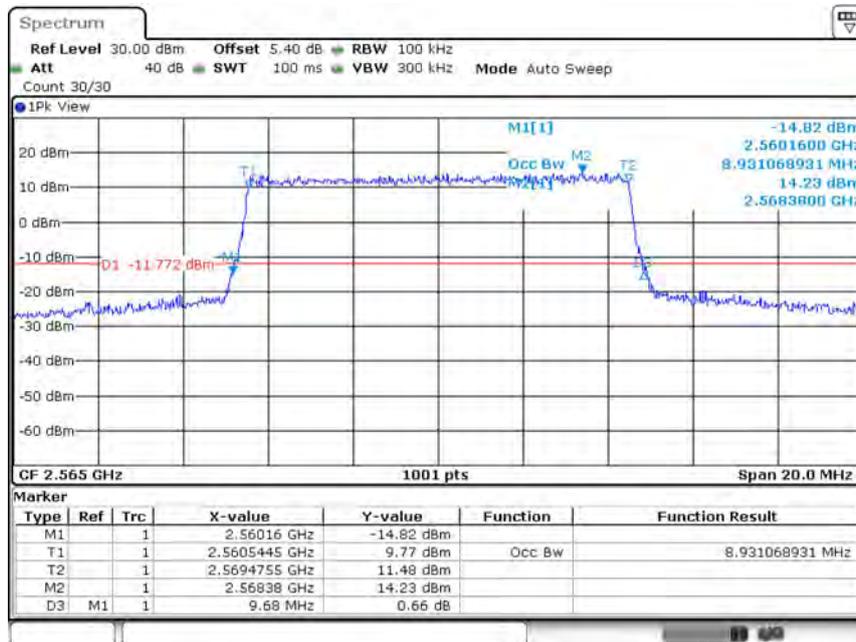


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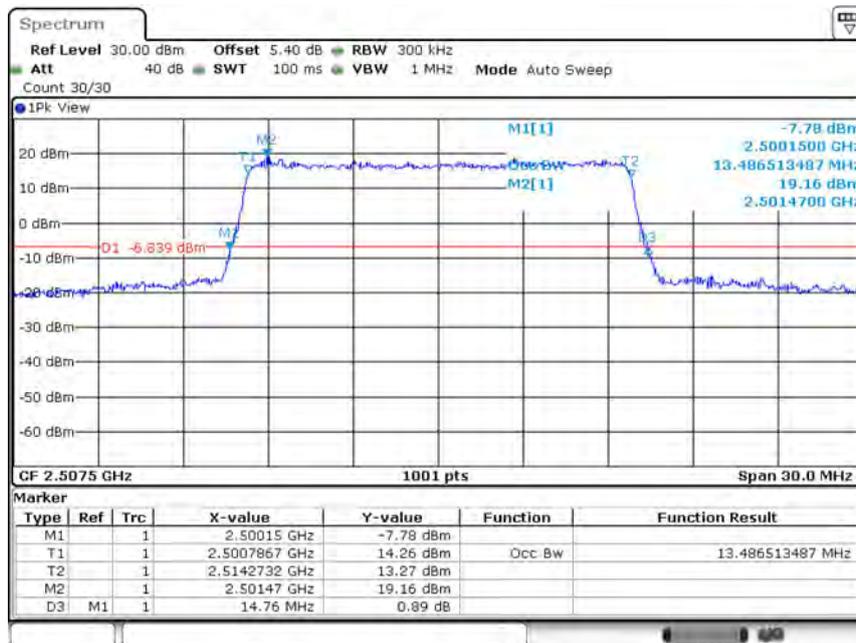


**Band7-10MHz-16QAM-21400-50RB#0-8.931**



Date: 27 JUL 2020 12:24:41

**Band7-15MHz-QPSK-20825-75RB#0-13.487**



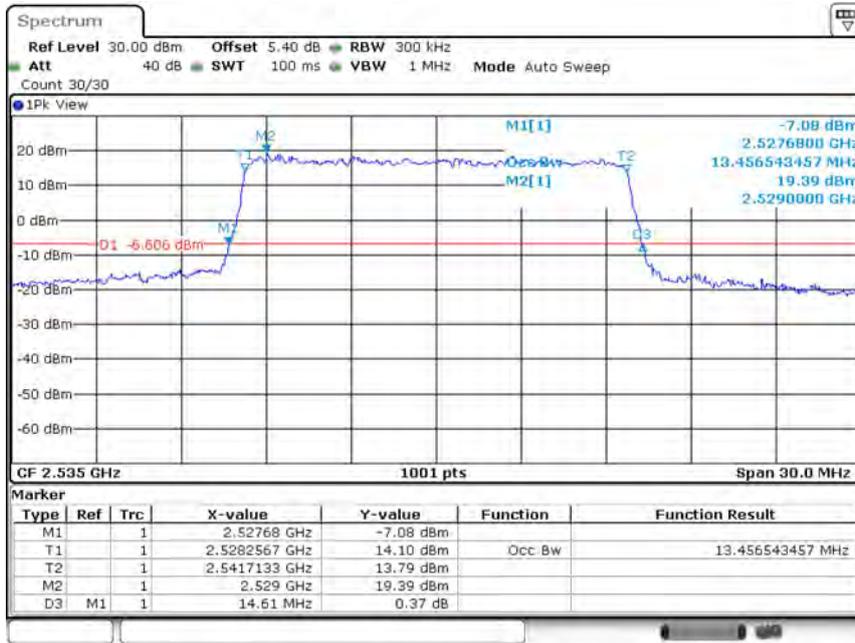
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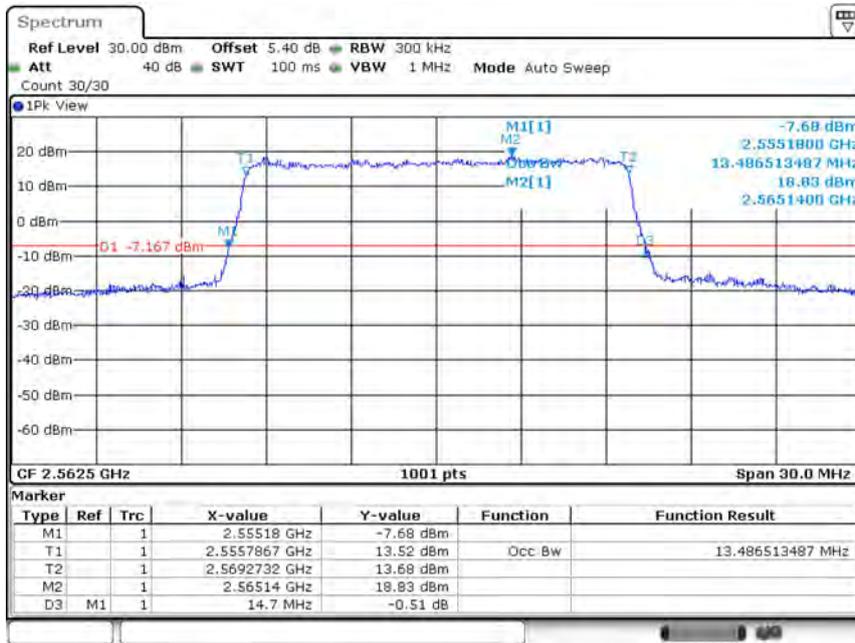


**Band7-15MHz-QPSK-21100-75RB#0-13.457**



Date: 27 JUL 2020 12:25:23

**Band7-15MHz-QPSK-21375-75RB#0-13.487**



Date: 27 JUL 2020 12:25:49



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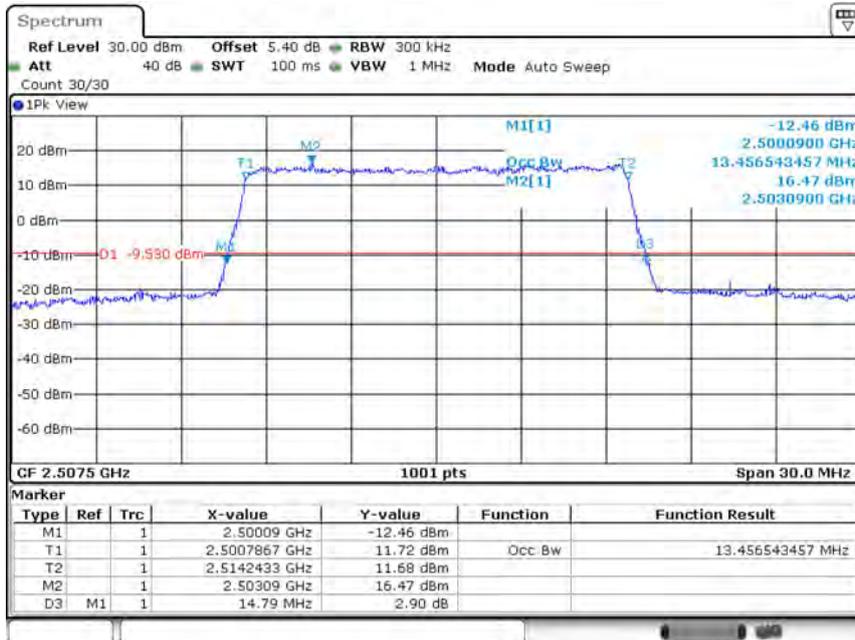
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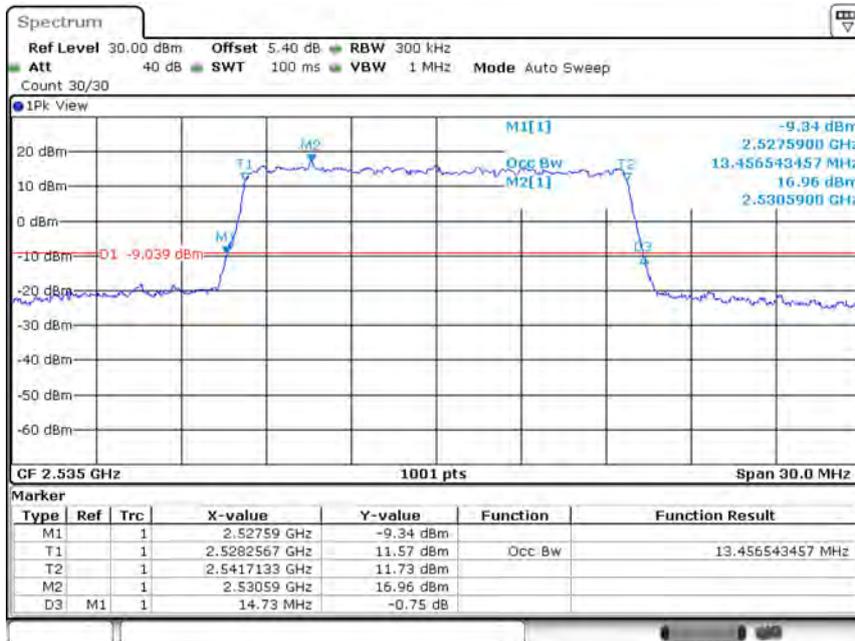


**Band7-15MHz-64QAM-20825-75RB#0-13.457**



Date: 27 JUL 2020 12:46:31

**Band7-15MHz-64QAM-21100-75RB#0-13.457**



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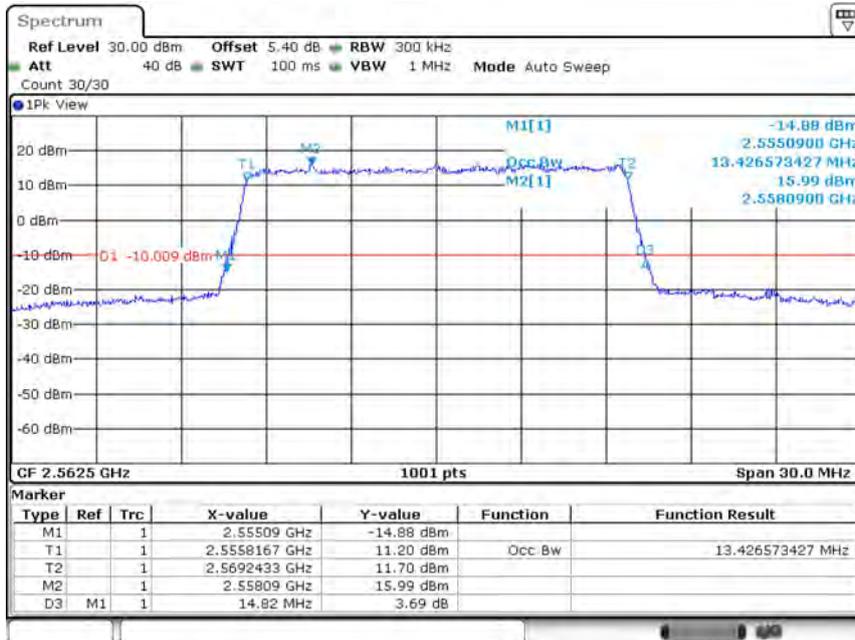
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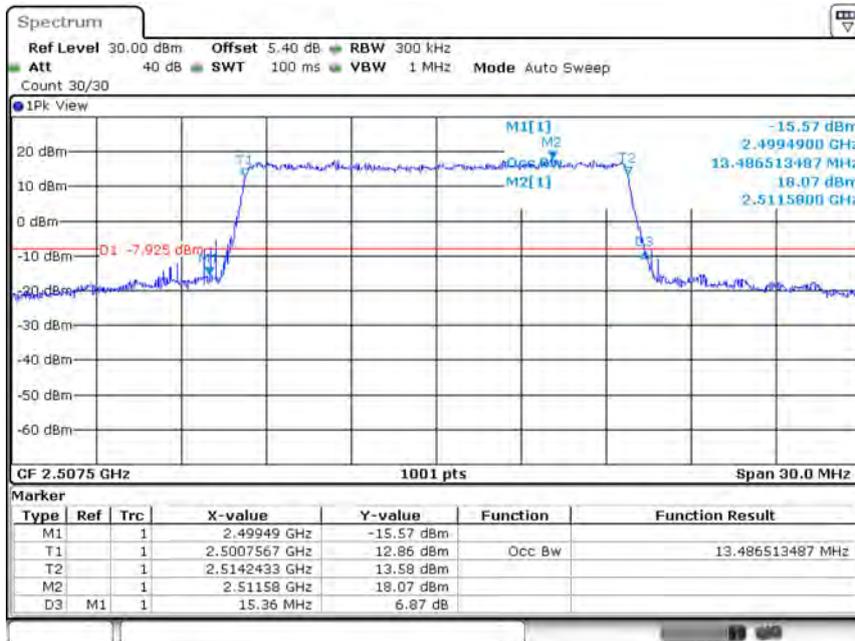


**Band7-15MHz-64QAM-21375-75RB#0-13.427**



Date: 27 JUL 2020 12:46:57

**Band7-15MHz-16QAM-20825-75RB#0-13.487**



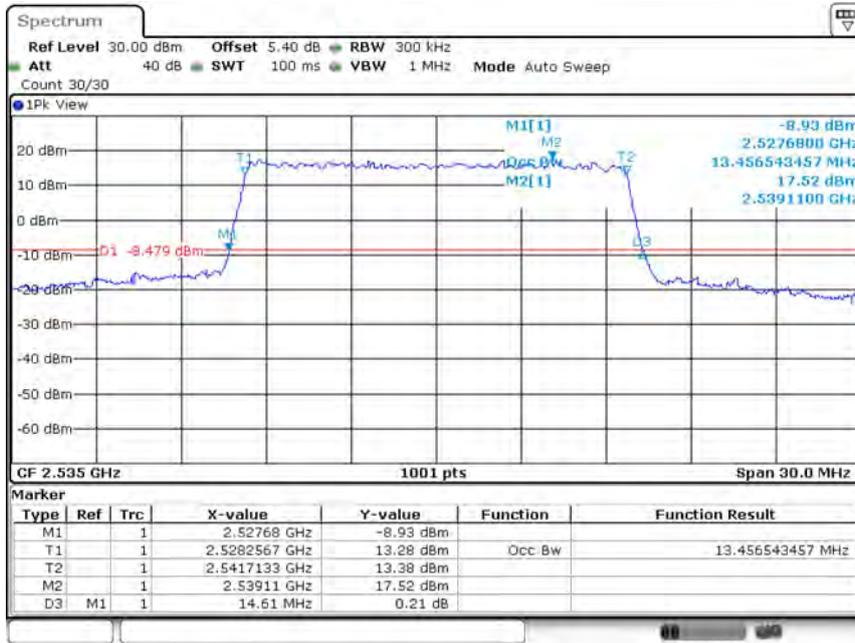
Date: 27 JUL 2020 12:25:11



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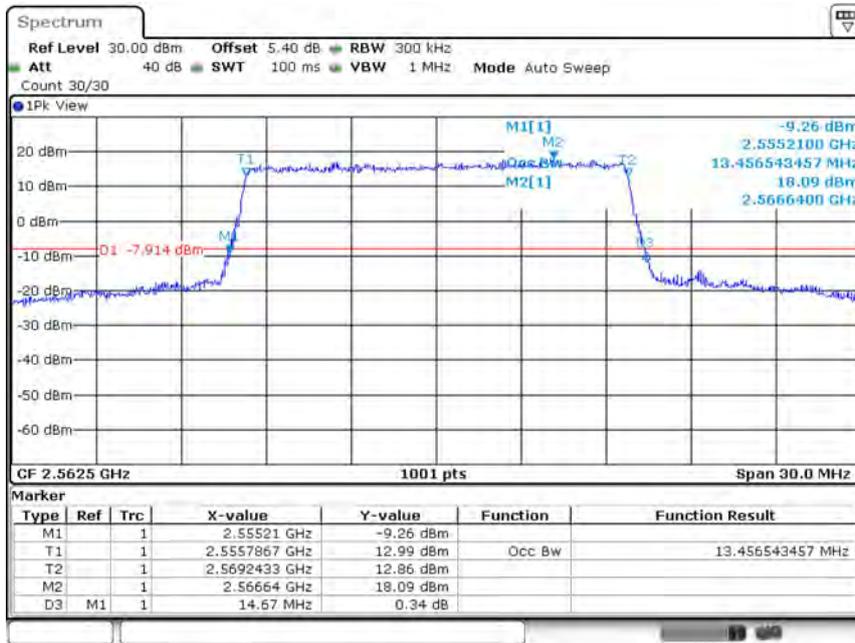


**Band7-15MHz-16QAM-21100-75RB#0-13.457**



Date: 27 JUL 2020 12:25:36

**Band7-15MHz-16QAM-21375-75RB#0-13.457**



Date: 27 JUL 2020 12:26:02



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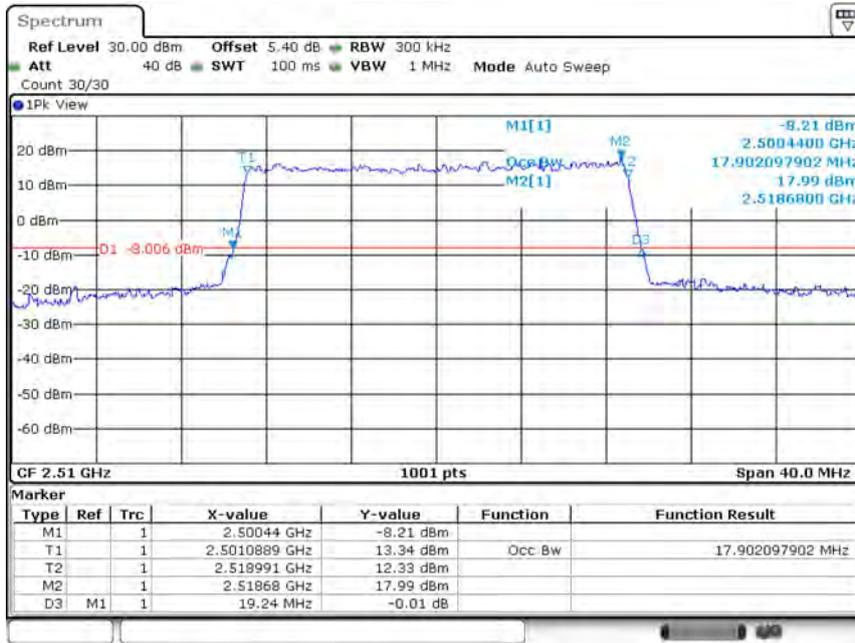
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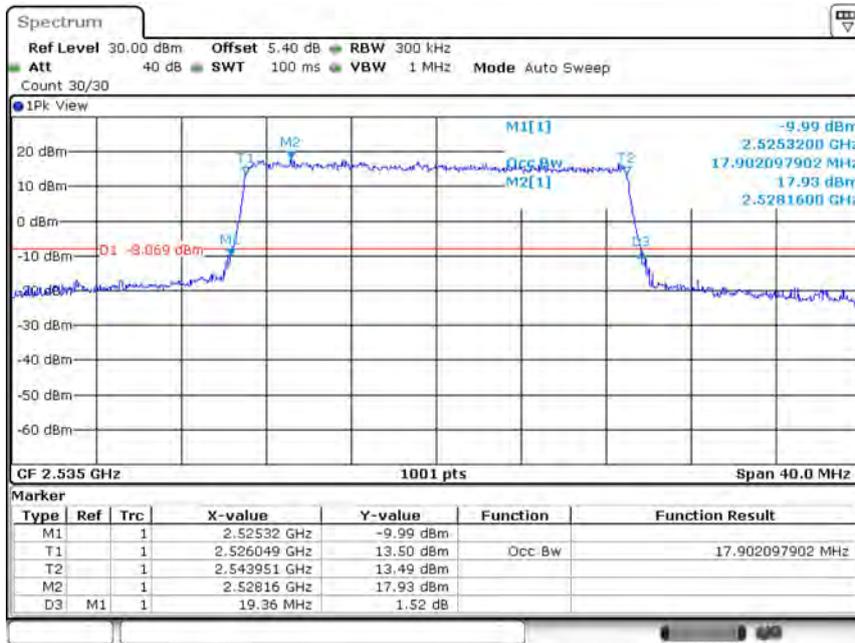


**Band7-20MHz-QPSK-20850-100RB#0-17.902**



Date: 27 JUL 2020 12:26:19

**Band7-20MHz-QPSK-21100-100RB#0-17.902**



Date: 27 JUL 2020 12:26:45



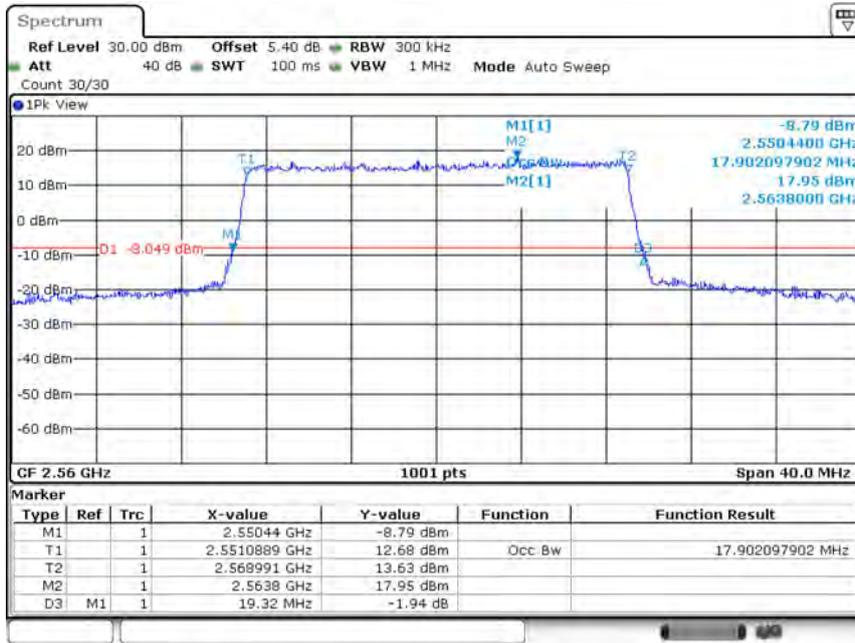
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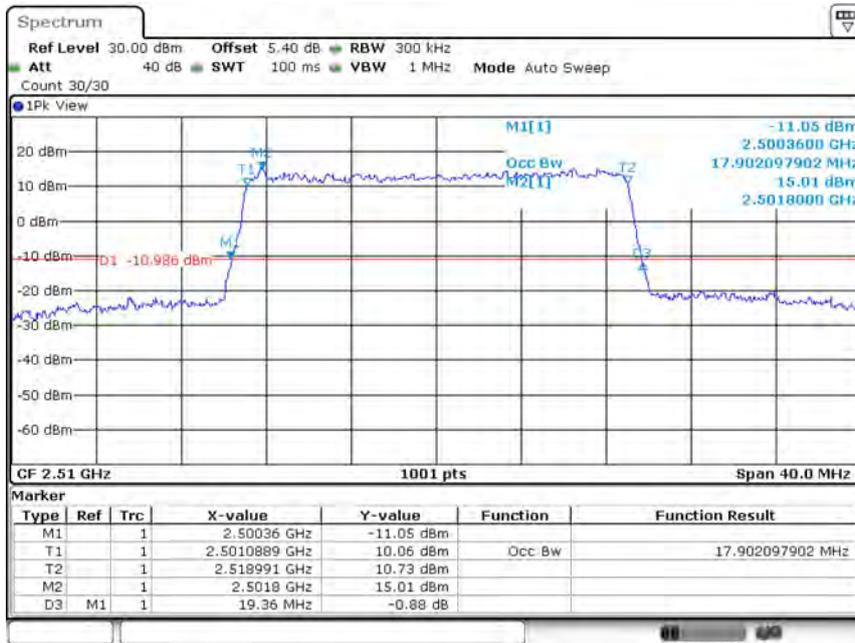
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**Band7-20MHz-QPSK-21350-100RB#0-17.902**



Date: 27 JUL 2020 12:27:10

**Band7-20MHz-64QAM-20850-100RB#0-17.902**



Date: 27 JUL 2020 12:47:15



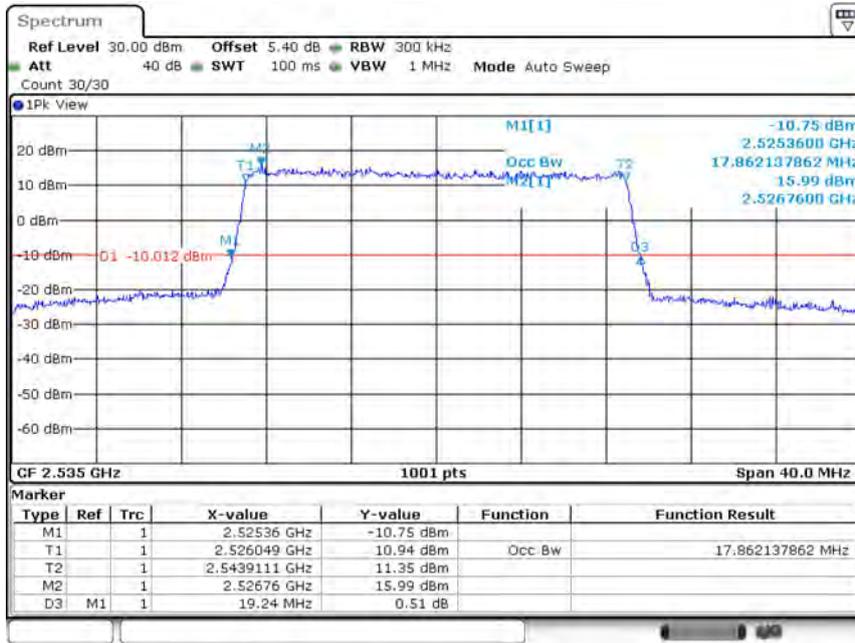
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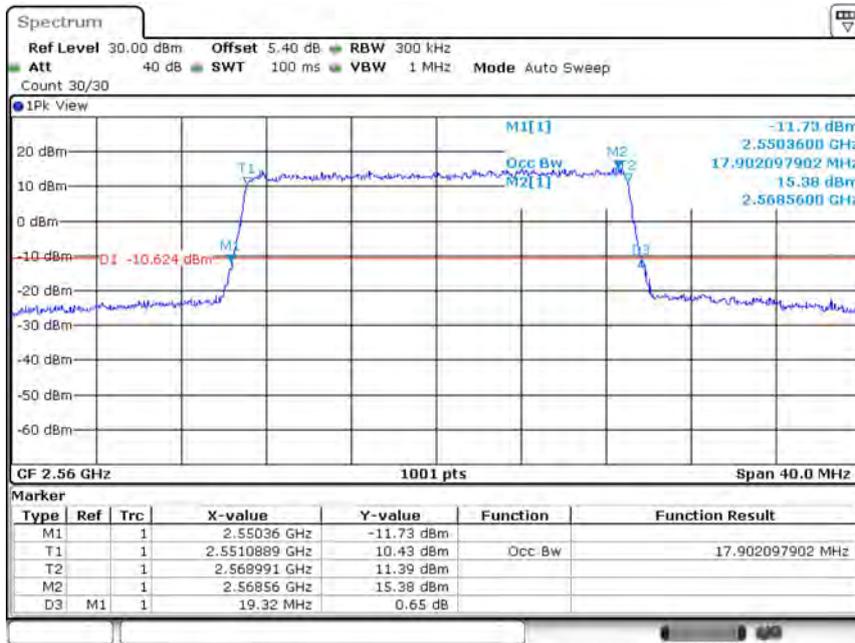
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**Band7-20MHz-64QAM-21100-100RB#0-17.862**



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**Band7-20MHz-64QAM-21350-100RB#0-17.902**



Date: 27 JUL 2020 12:47:41



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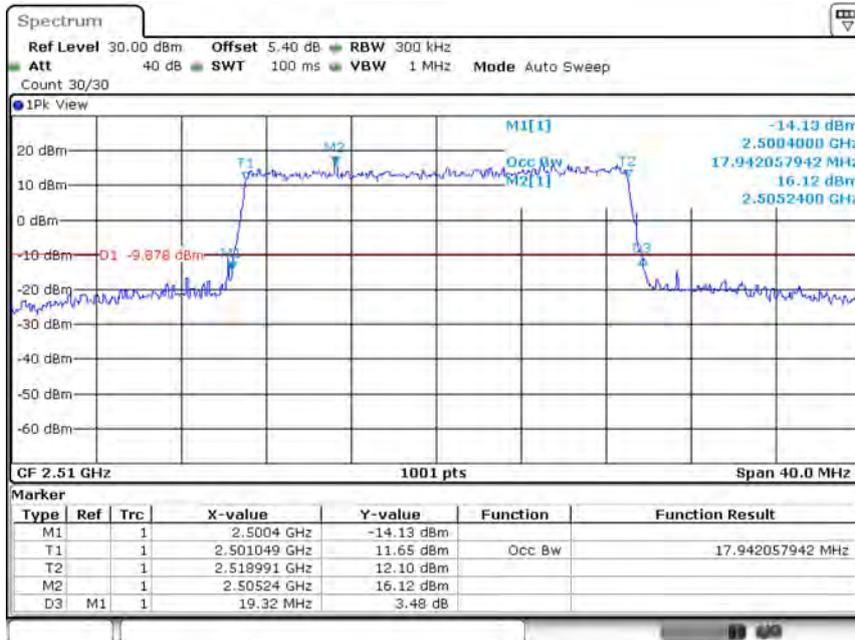
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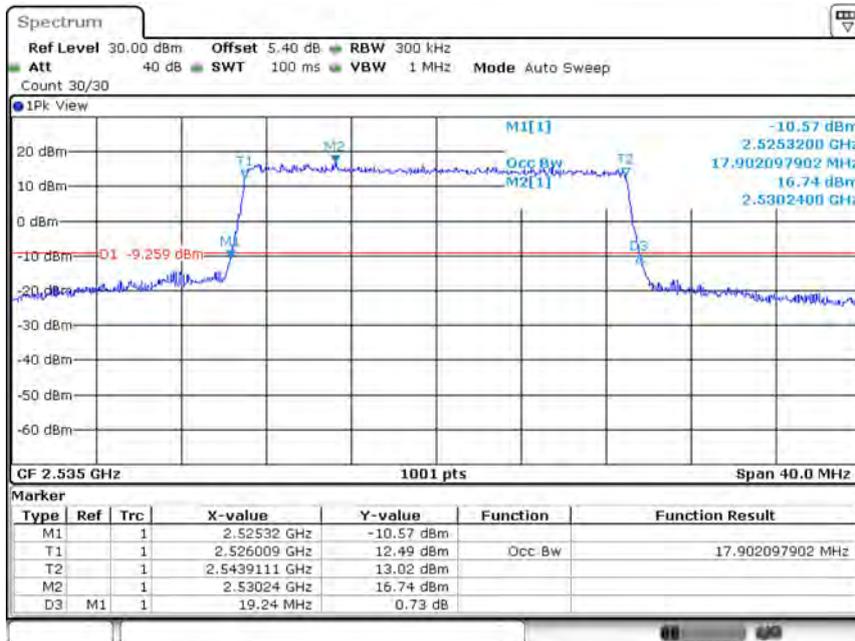


**Band7-20MHz-16QAM-20850-100RB#0-17.942**



Date: 27 JUL 2020 12:26:32

**Band7-20MHz-16QAM-21100-100RB#0-17.902**



Date: 27 JUL 2020 12:26:57



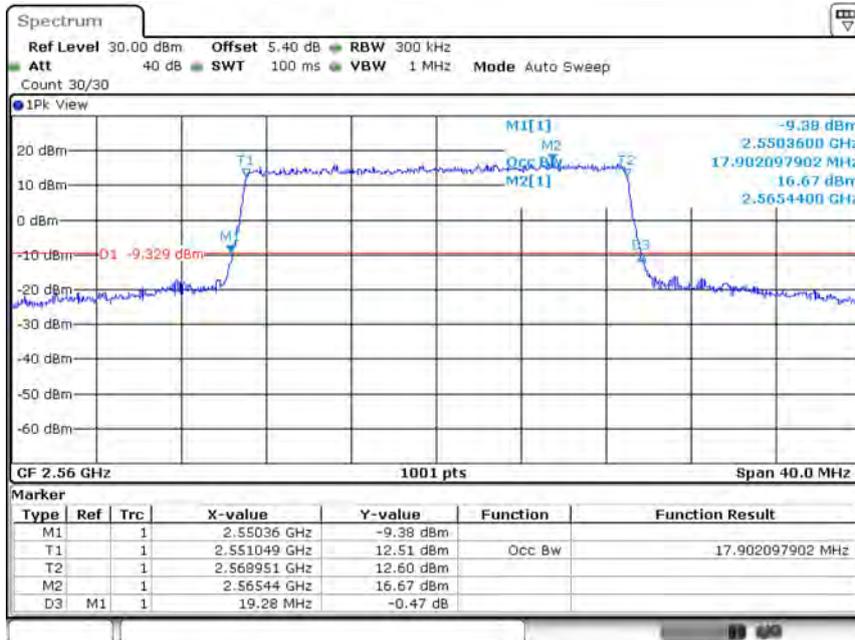
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Band7-20MHz-16QAM-21350-100RB#0-17.902



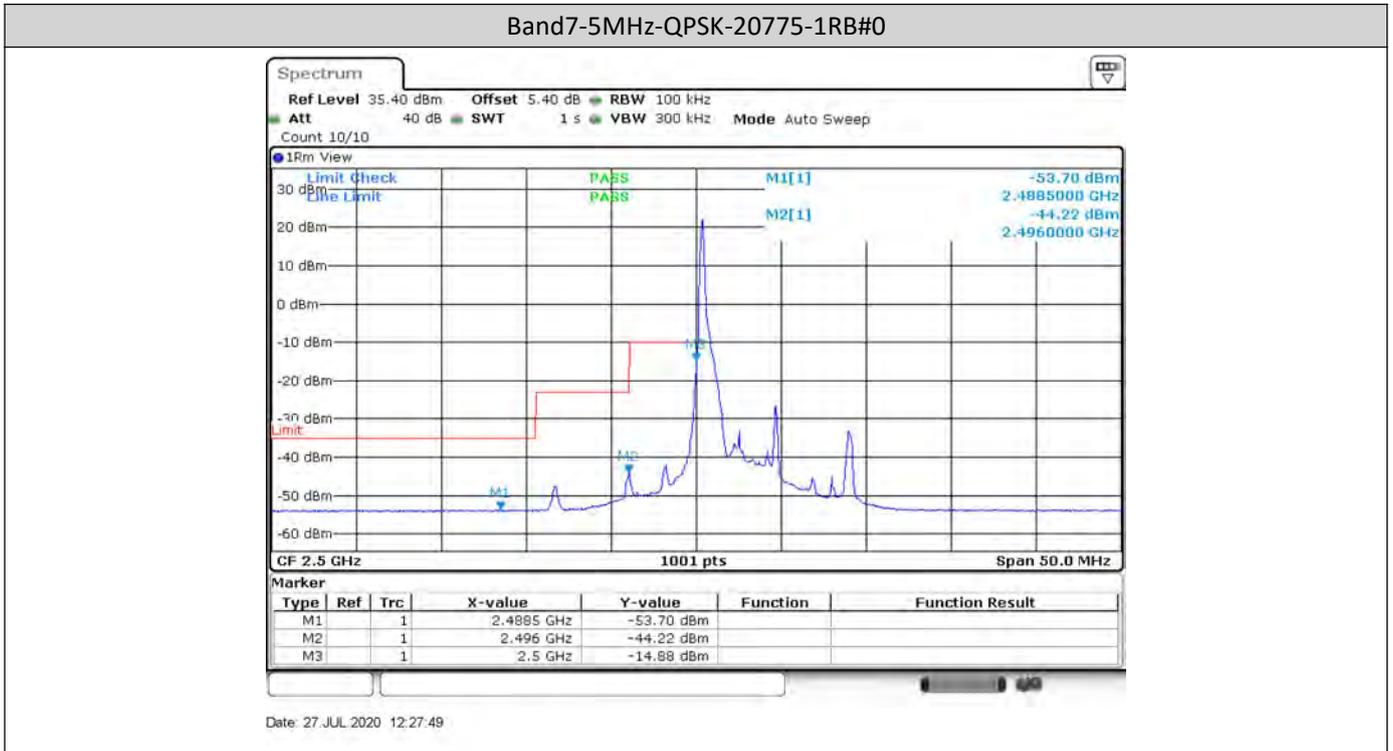
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## 5. Band Edge Compliance

### 5.1. Test Plots



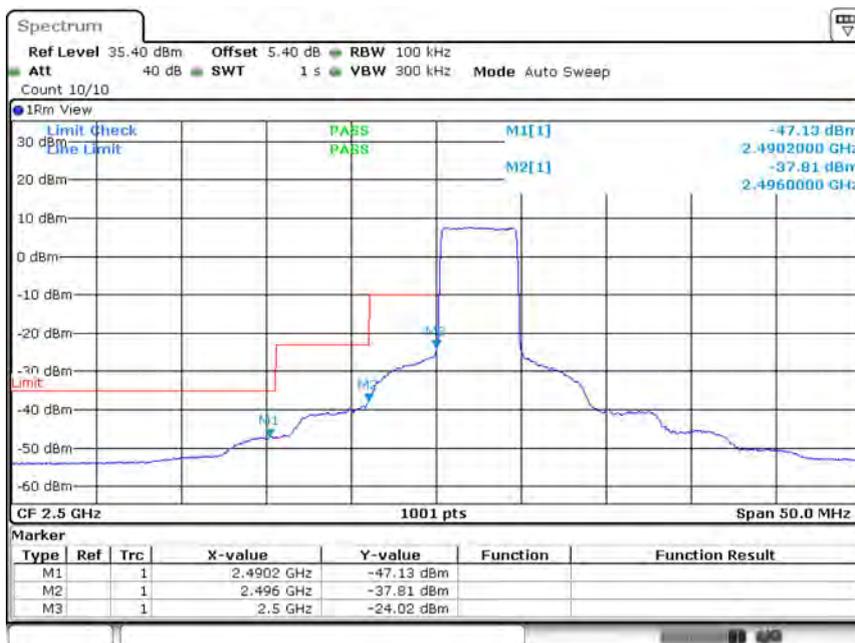
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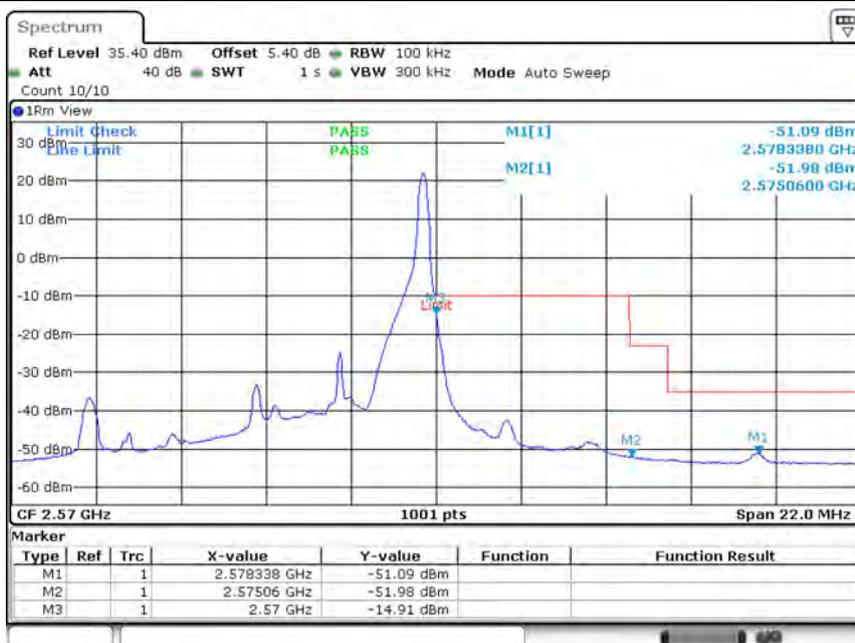


**Band7-5MHz-QPSK-20775-25RB#0**



Date: 27 JUL 2020 12:29:22

**Band7-5MHz-QPSK-21425-1RB#24**



Date: 27 JUL 2020 12:28:35

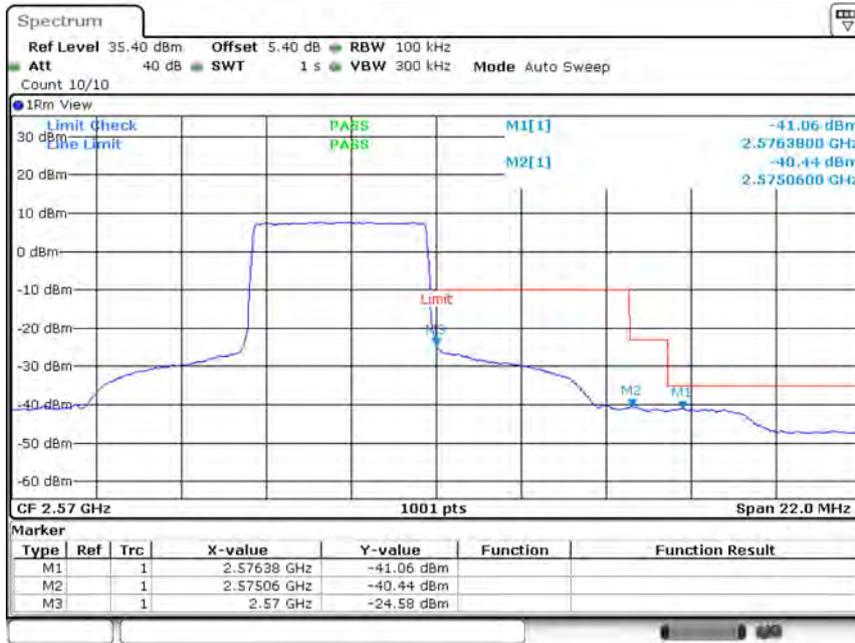


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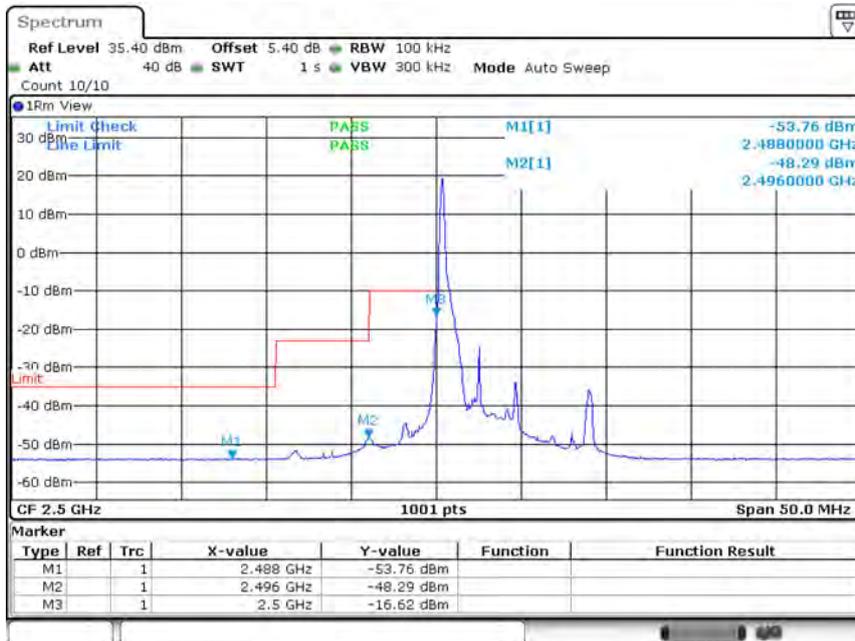
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**Band7-5MHz-QPSK-21425-25RB#0**



Date: 27 JUL 2020 12:30:05

**Band7-5MHz-64QAM-20775-1RB#0**



Date: 27 JUL 2020 12:48:07

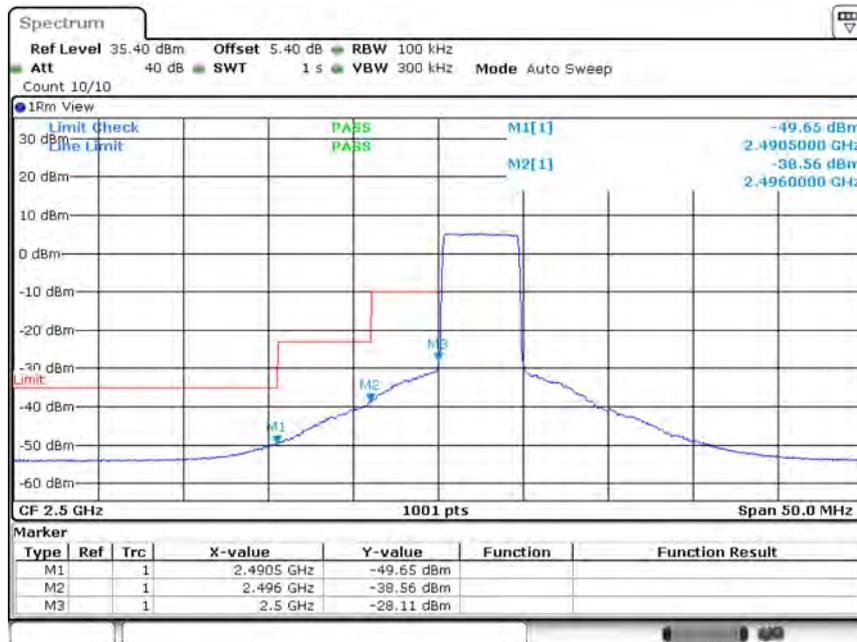


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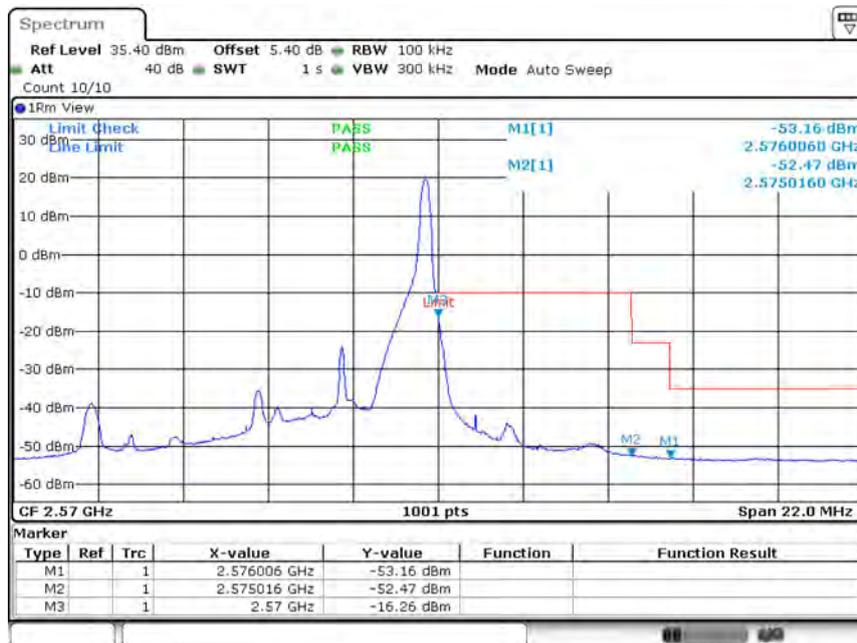
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**Band7-5MHz-64QAM-20775-25RB#0**



Date: 27 JUL 2020 12:48:59

**Band7-5MHz-64QAM-21425-1RB#24**



Date: 27 JUL 2020 12:48:33



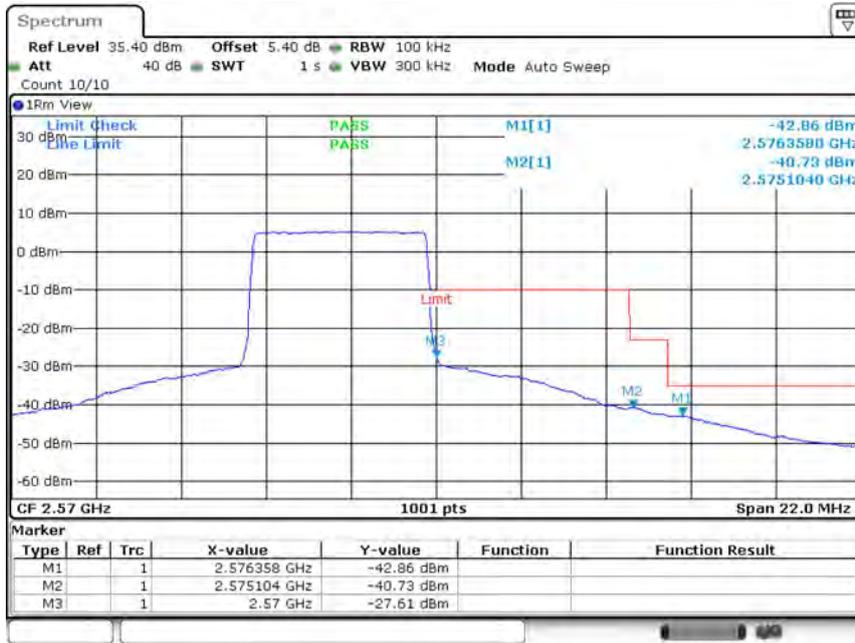
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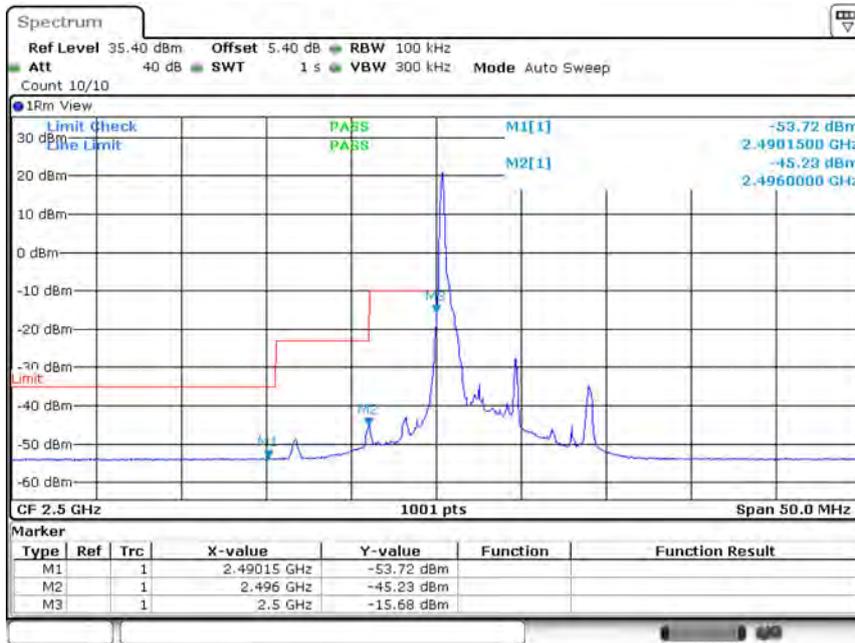
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**Band7-5MHz-16QAM-20775-1RB#0**



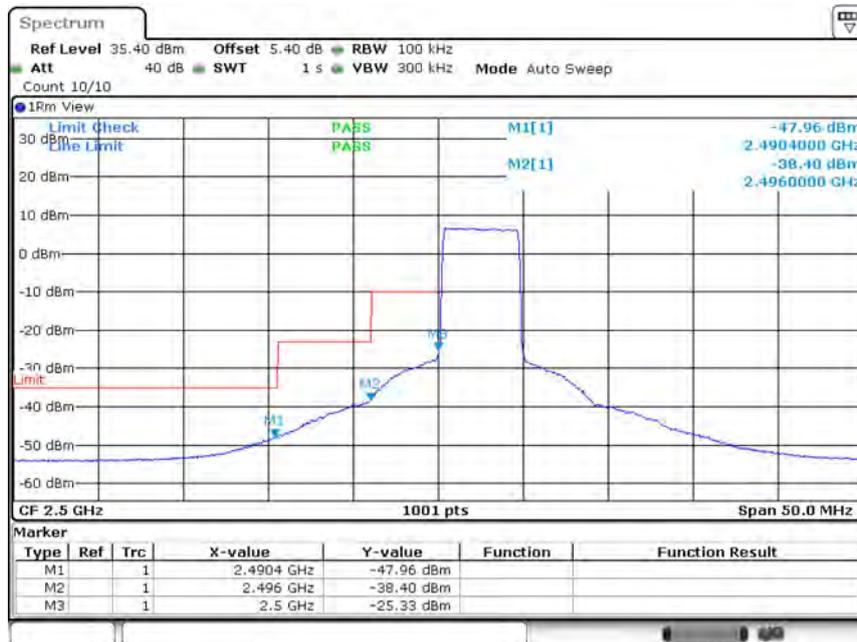
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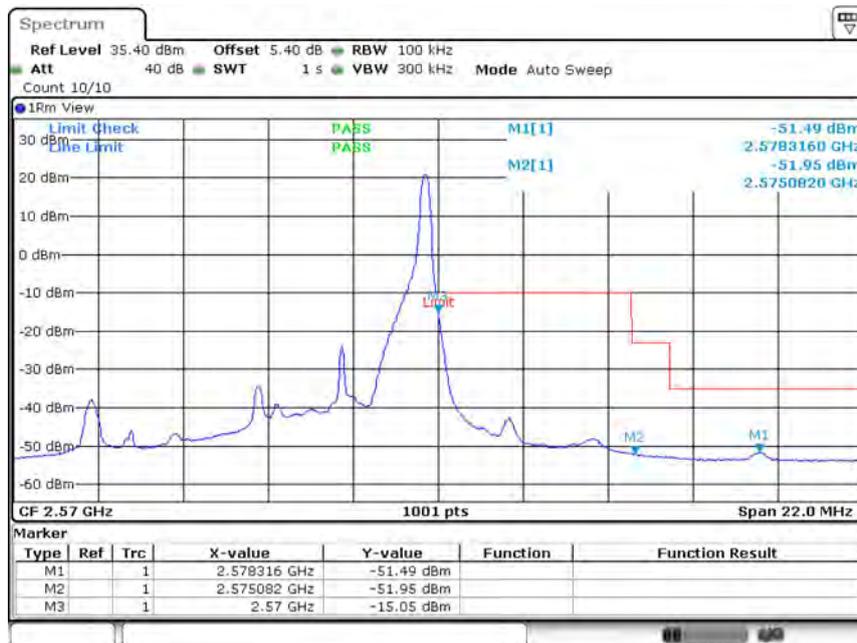
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**Band7-5MHz-16QAM-20775-25RB#0**



Date: 27 JUL 2020 12:29:43

**Band7-5MHz-16QAM-21425-1RB#24**



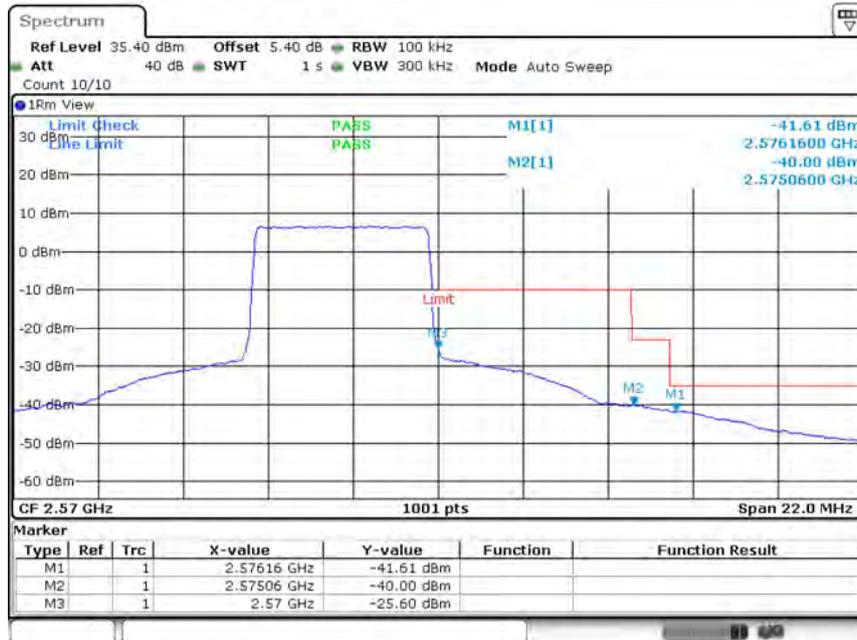
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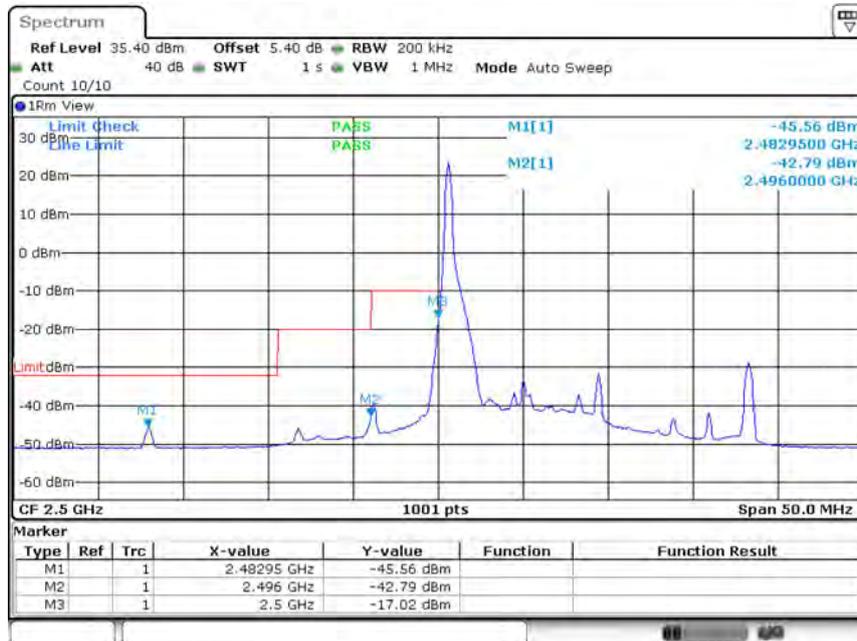
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Date: 27 JUL 2020 12:30:26

**Band7-10MHz-QPSK-20800-1RB#0**



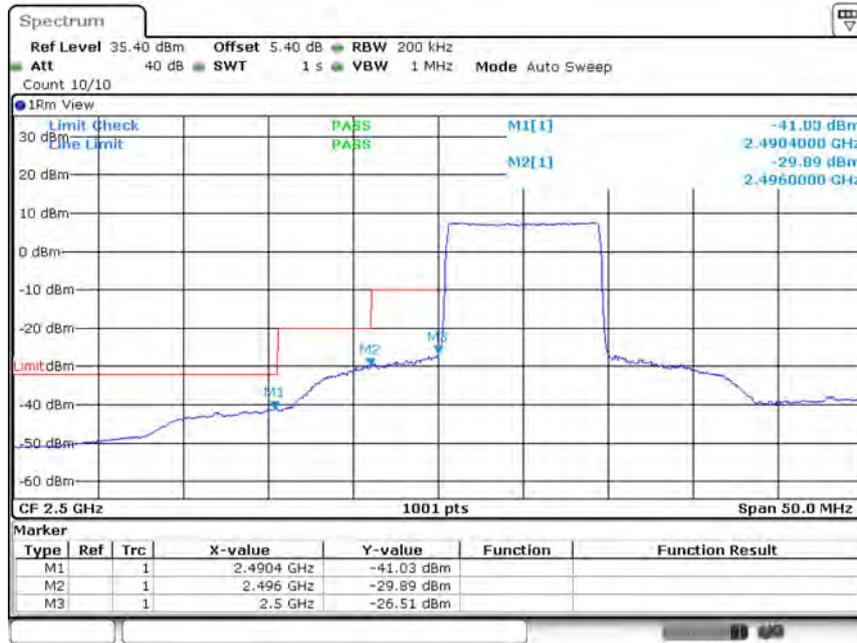
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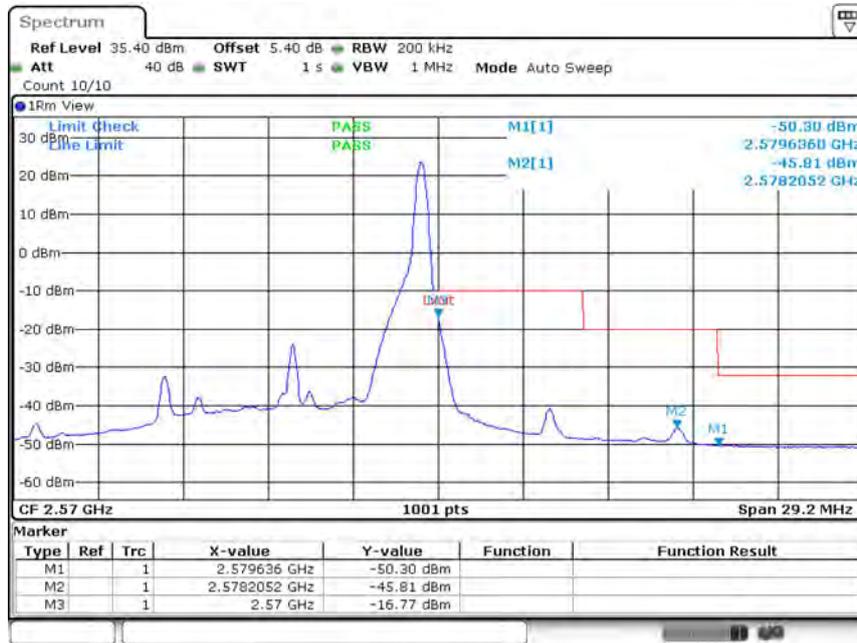
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**Band7-10MHz-QPSK-20800-50RB#0**



Date: 27 JUL 2020 12:32:25

**Band7-10MHz-QPSK-21400-1RB#49**



Date: 27 JUL 2020 12:31:38

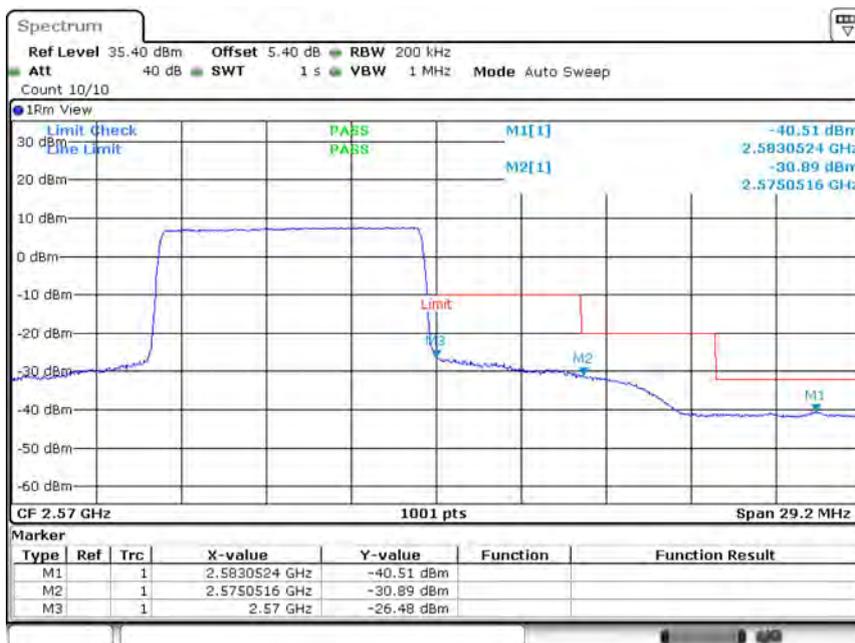


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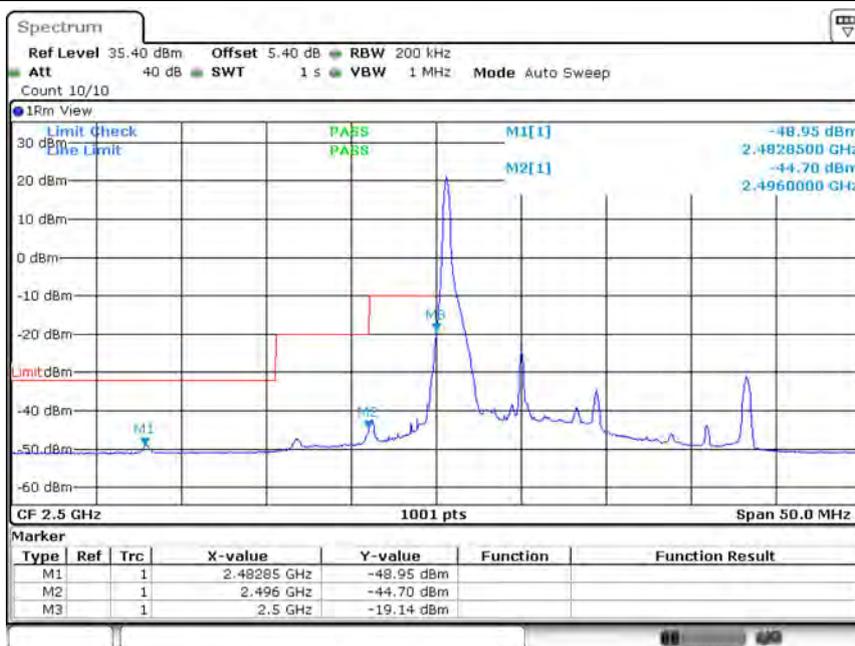
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**Band7-10MHz-QPSK-21400-50RB#0**



Date: 27 JUL 2020 12:33:07

**Band7-10MHz-64QAM-20800-1RB#0**



Date: 27 JUL 2020 12:49:47

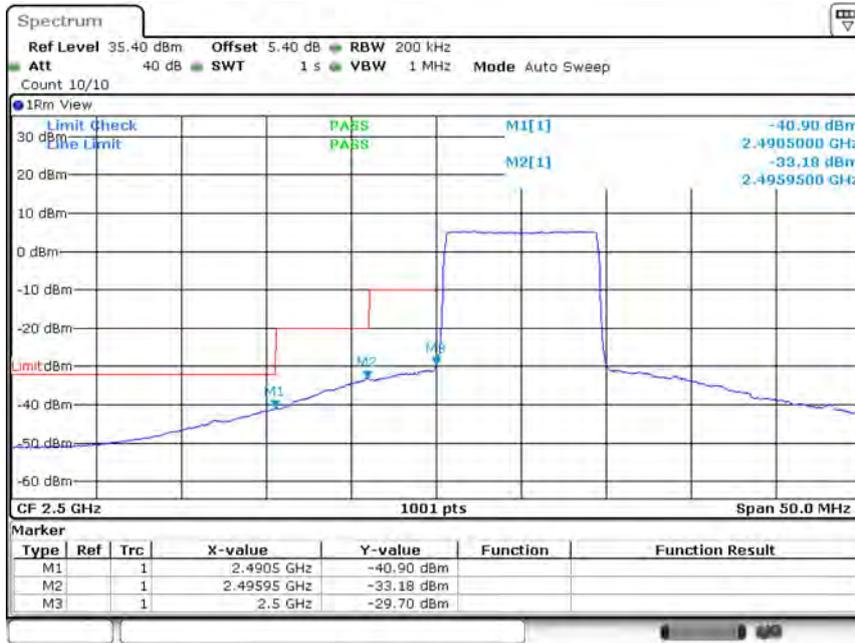


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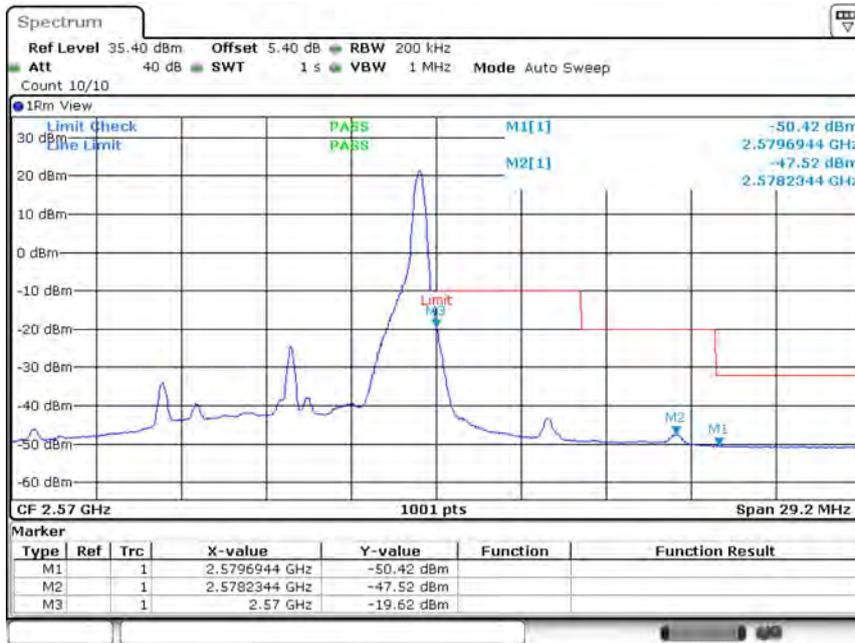
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**Band7-10MHz-64QAM-20800-50RB#0**



Date: 27 JUL 2020 12:50:38

**Band7-10MHz-64QAM-21400-1RB#49**

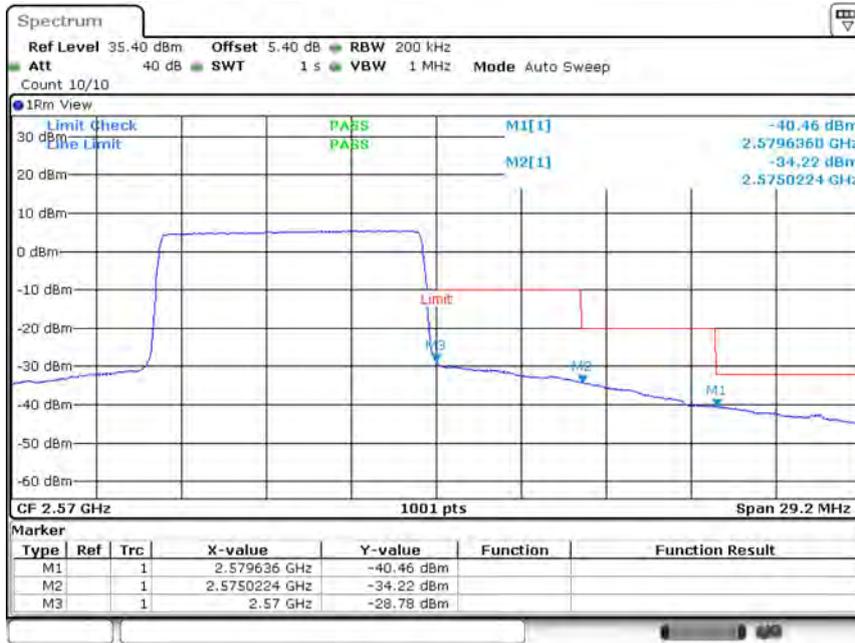


Date: 27 JUL 2020 12:50:13



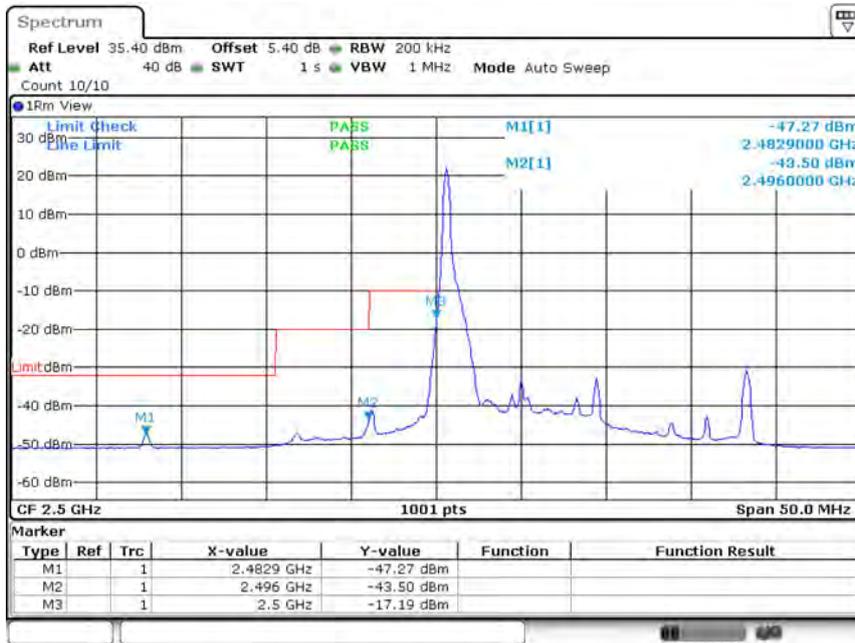
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**Band7-10MHz-64QAM-21400-50RB#0**



Date: 27 JUL 2020 12:51:00

**Band7-10MHz-16QAM-20800-1RB#0**



Date: 27 JUL 2020 12:31:13

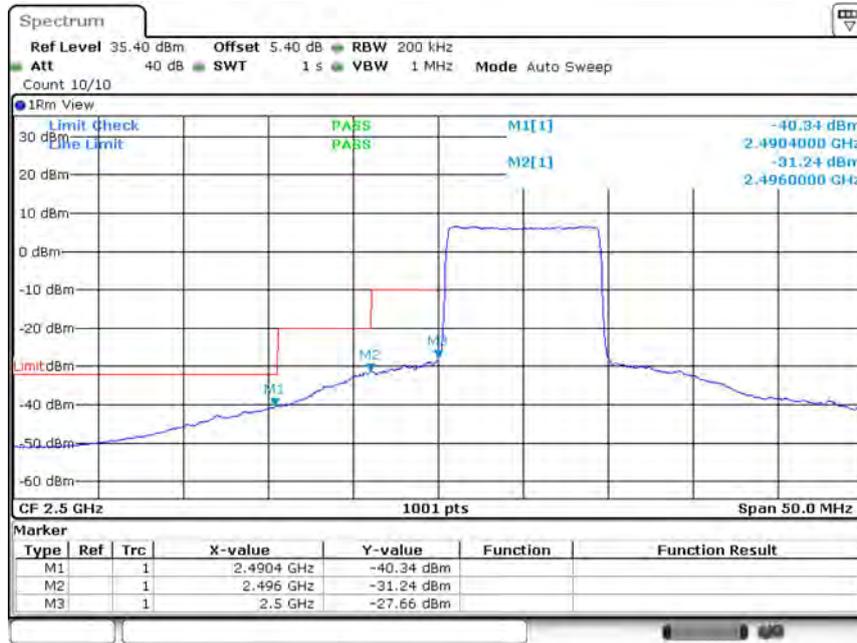


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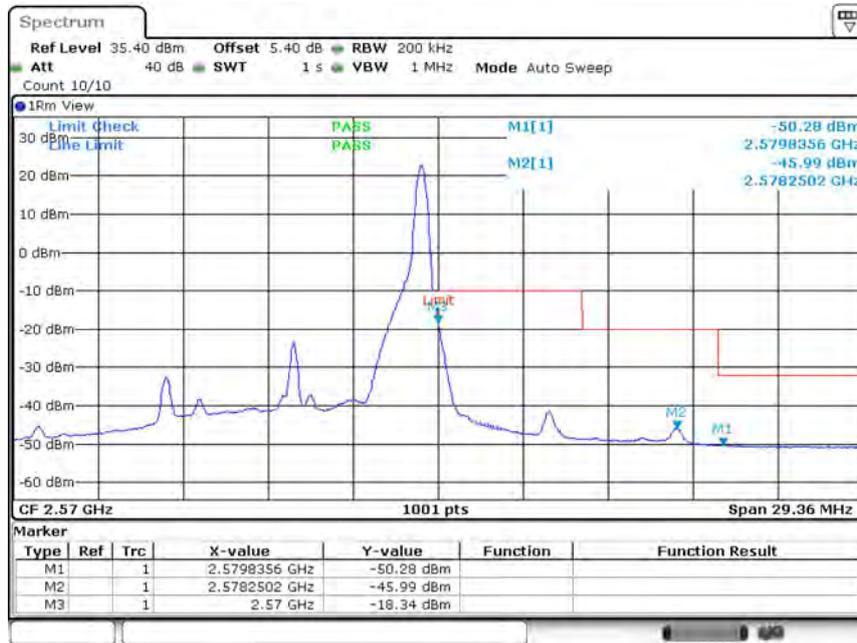


**Band7-10MHz-16QAM-20800-50RB#0**



Date: 27 JUL 2020 12:32:46

**Band7-10MHz-16QAM-21400-1RB#49**



Date: 27 JUL 2020 12:31:59

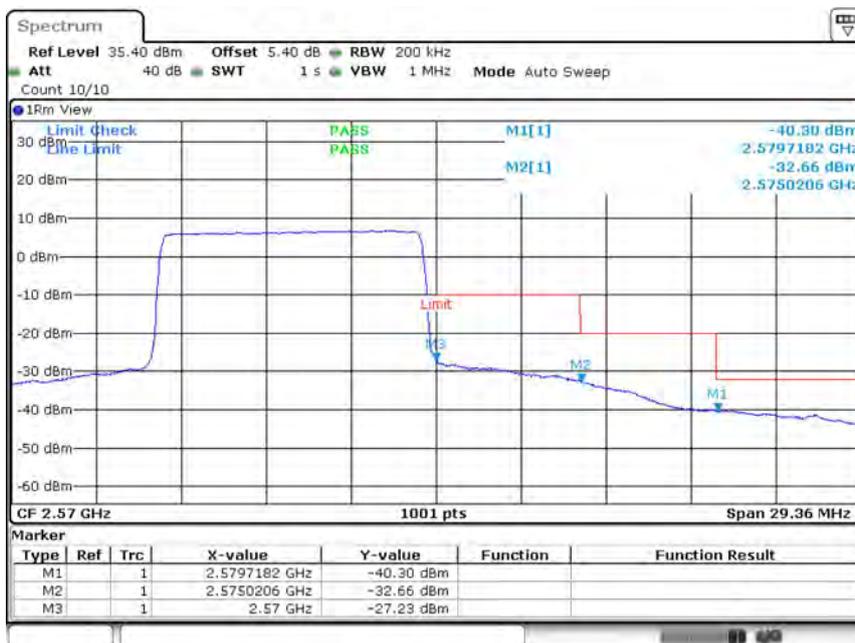


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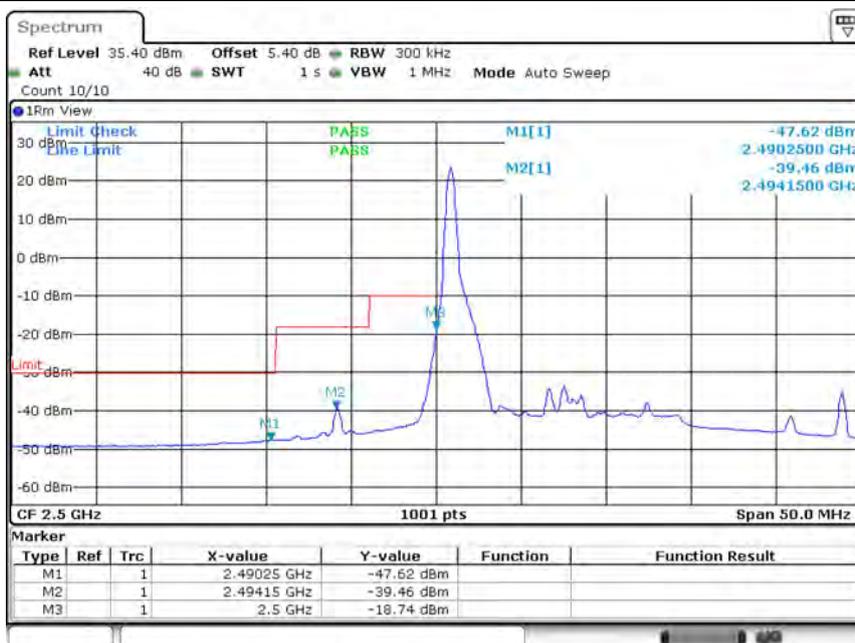


**Band7-10MHz-16QAM-21400-50RB#0**



Date: 27 JUL 2020 12:33:29

**Band7-15MHz-QPSK-20825-1RB#0**



Date: 27 JUL 2020 12:33:55



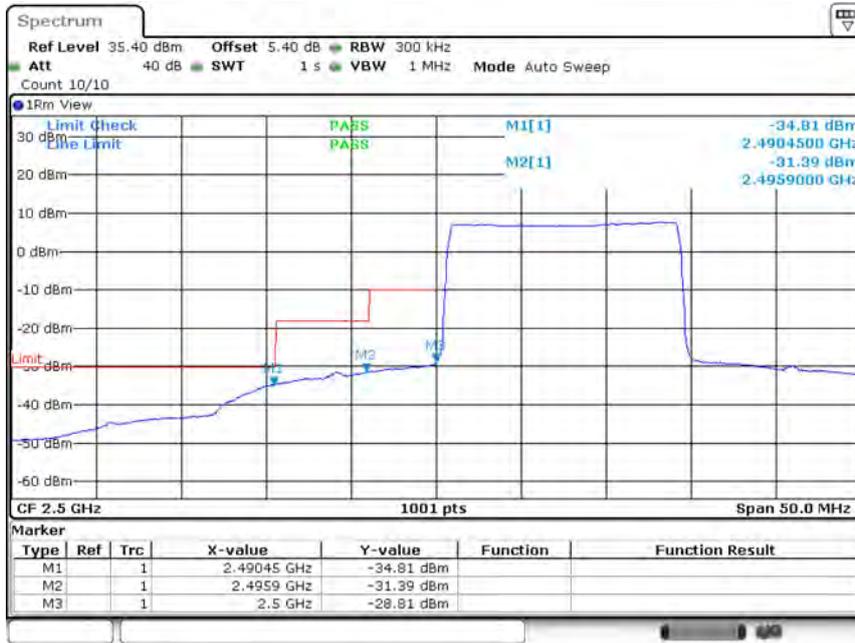
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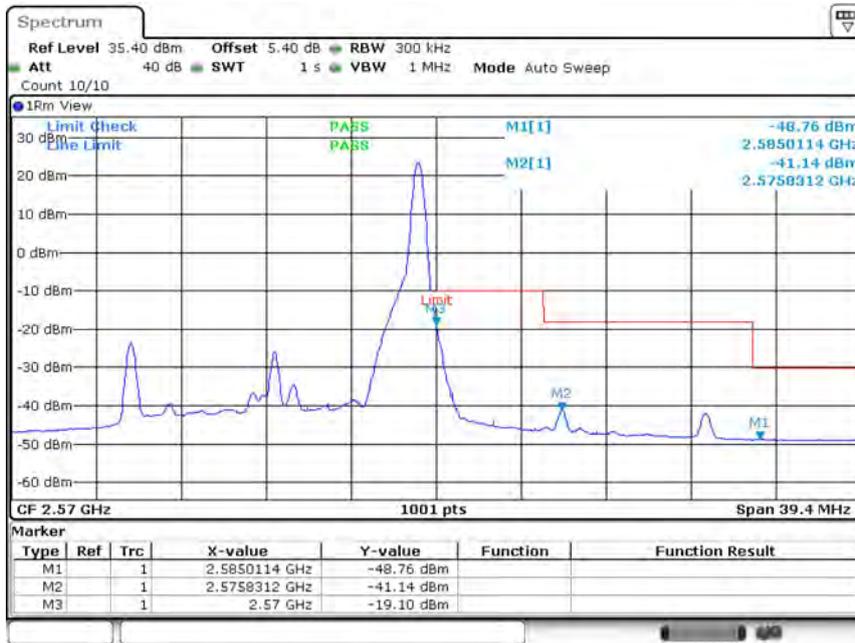


**Band7-15MHz-QPSK-20825-75RB#0**



Date: 27 JUL 2020 12:35:28

**Band7-15MHz-QPSK-21375-1RB#74**



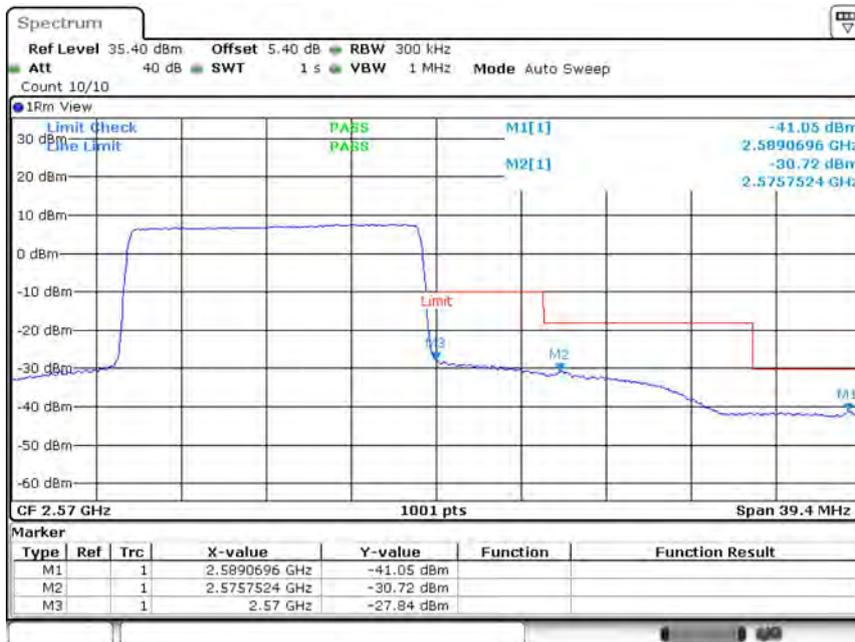
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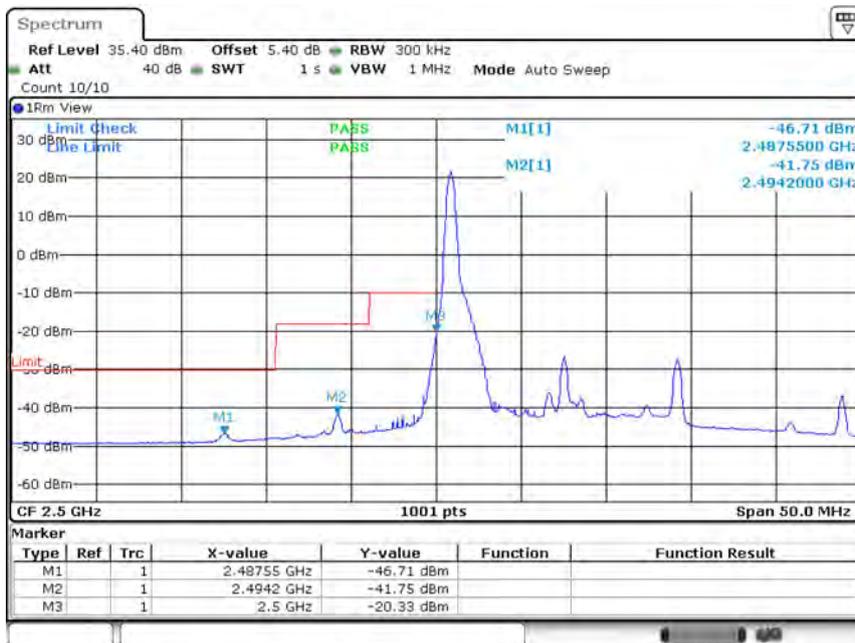
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**Band7-15MHz-QPSK-21375-75RB#0**



Date: 27 JUL 2020 12:36:11

**Band7-15MHz-64QAM-20825-1RB#0**



Date: 27 JUL 2020 12:51:26

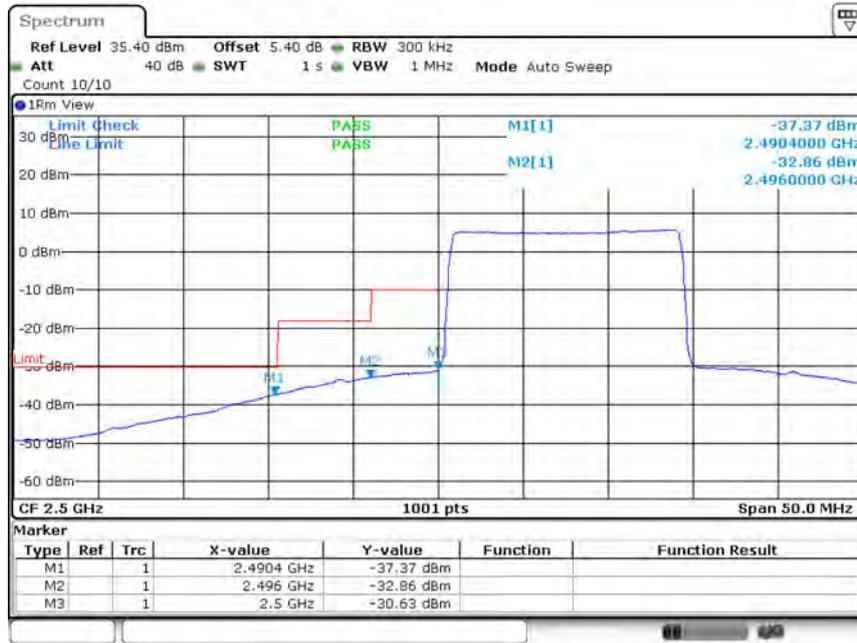


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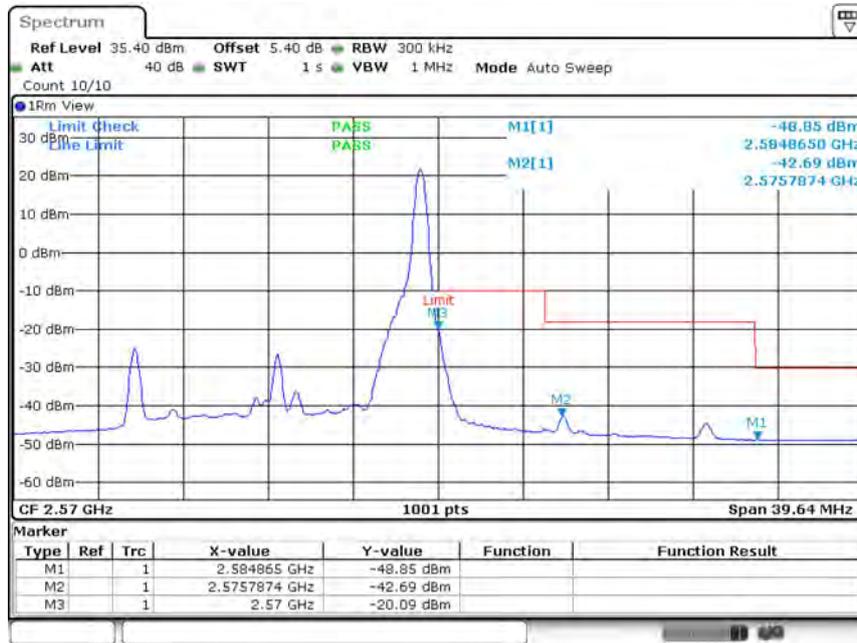
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**Band7-15MHz-64QAM-20825-75RB#0**



Date: 27 JUL 2020 12:52:18

**Band7-15MHz-64QAM-21375-1RB#74**



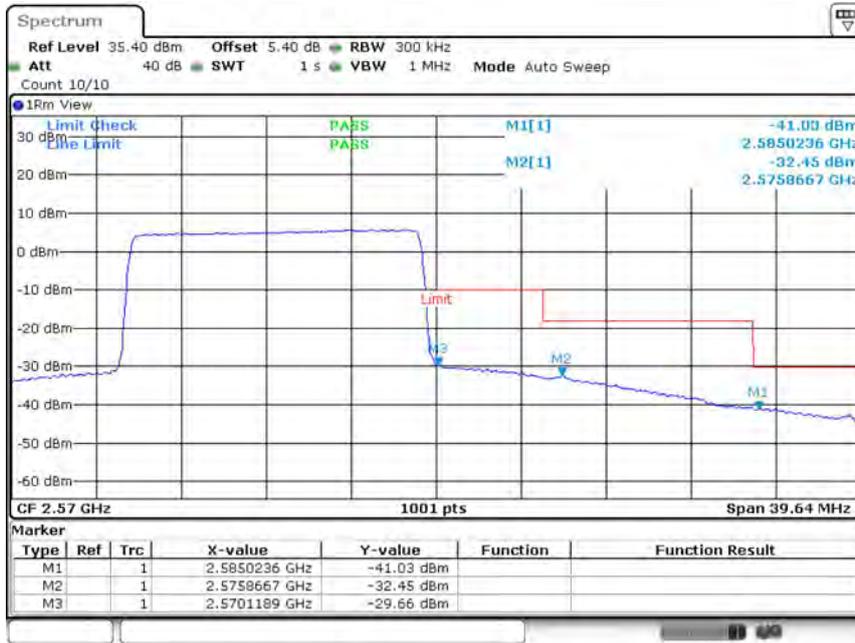
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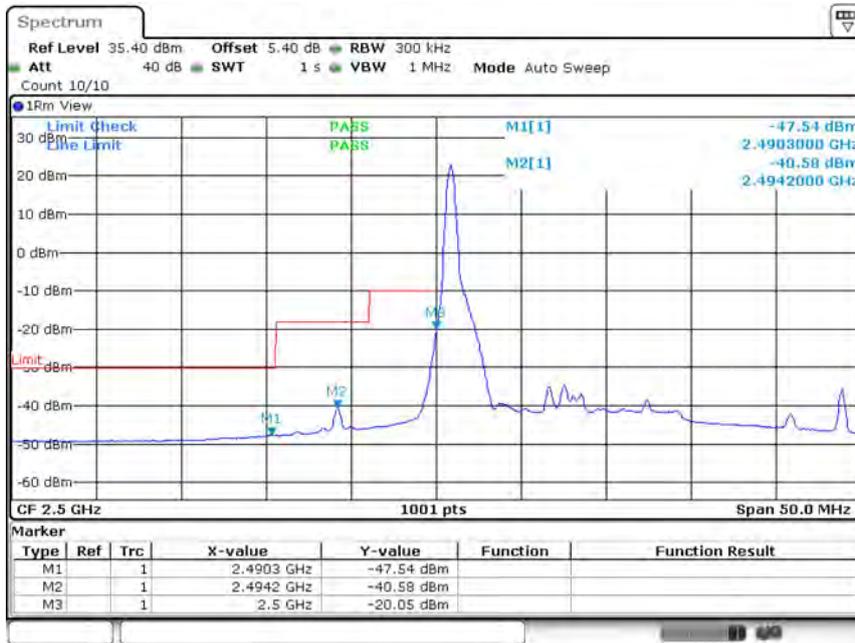
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**Band7-15MHz-64QAM-21375-75RB#0**



Date: 27 JUL 2020 12:52:40

**Band7-15MHz-16QAM-20825-1RB#0**



Date: 27 JUL 2020 12:34:16



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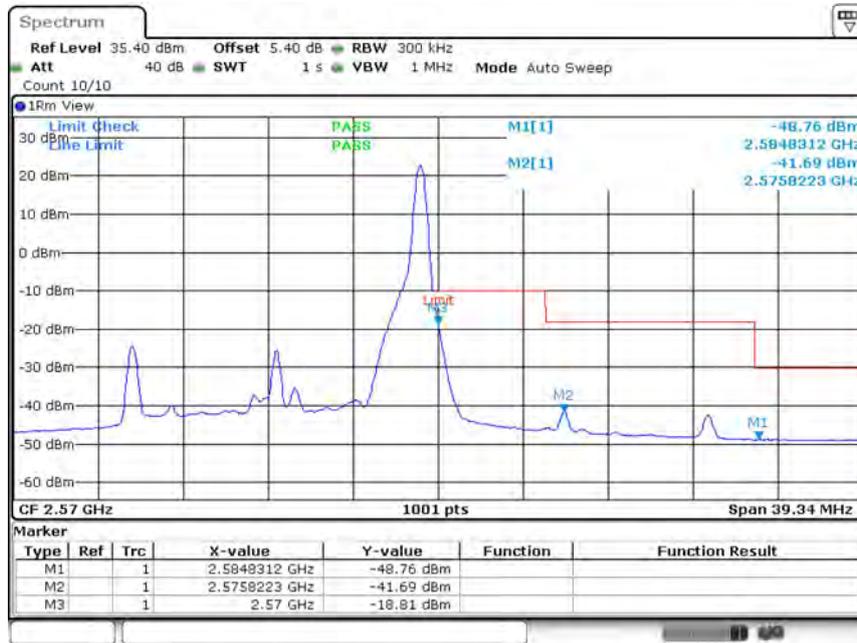


**Band7-15MHz-16QAM-20825-75RB#0**



Date: 27 JUL 2020 12:35:49

**Band7-15MHz-16QAM-21375-1RB#74**



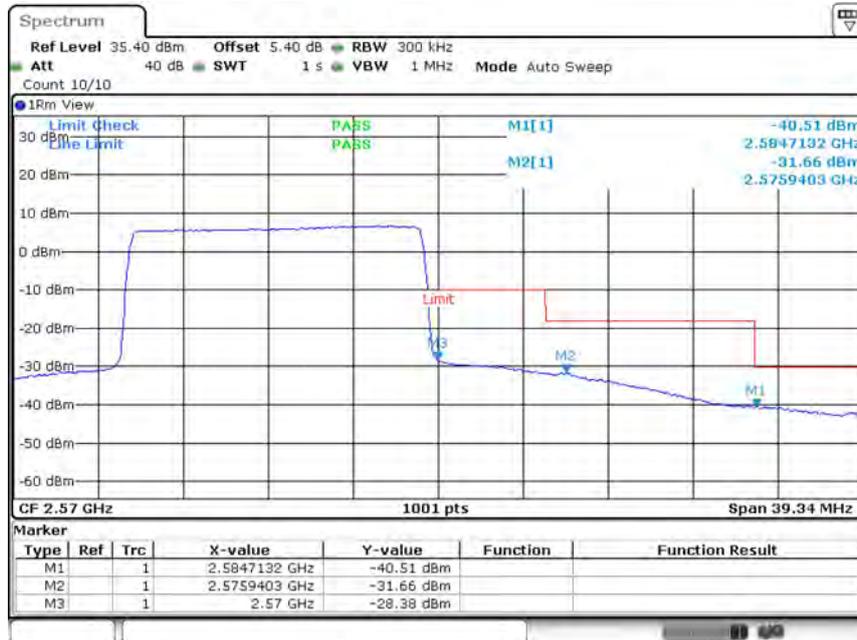
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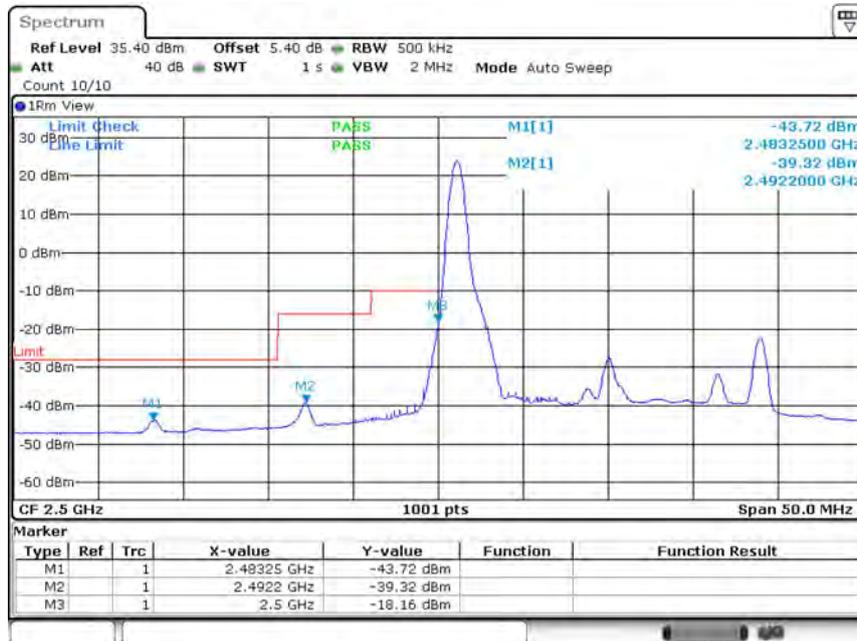
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**Band7-15MHz-16QAM-21375-75RB#0**



Date: 27 JUL 2020 12:36:32

**Band7-20MHz-QPSK-20850-1RB#0**



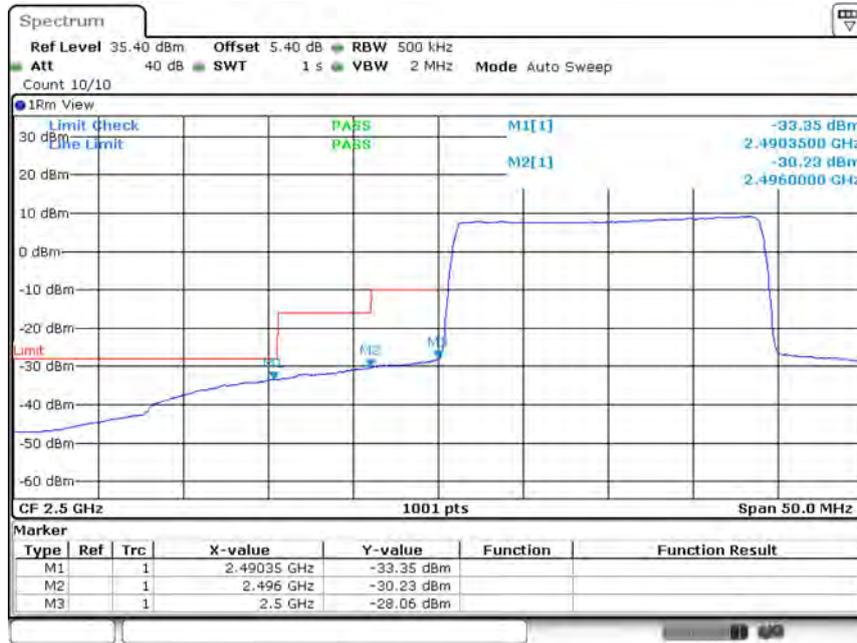
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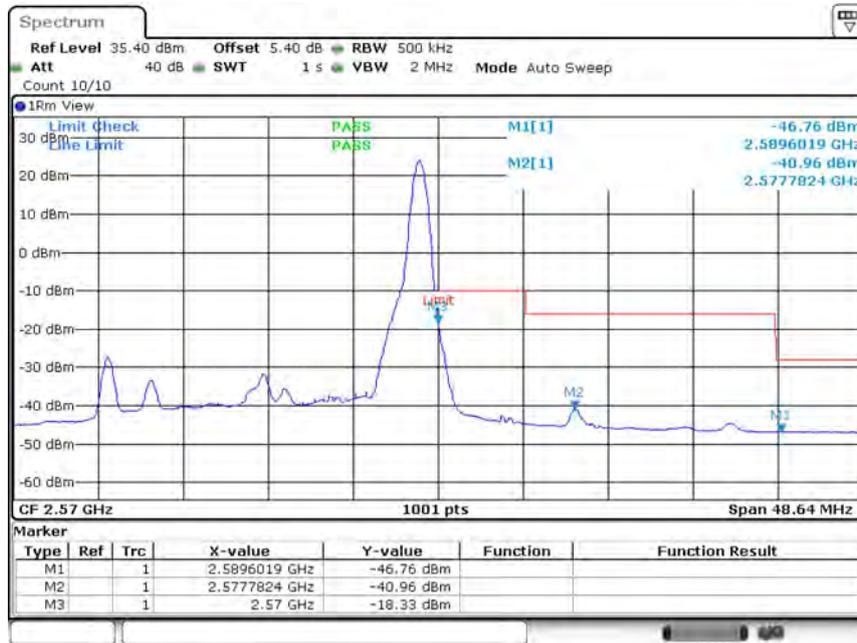
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**Band7-20MHz-QPSK-20850-100RB#0**



Date: 27 JUL 2020 12:38:32

**Band7-20MHz-QPSK-21350-1RB#99**



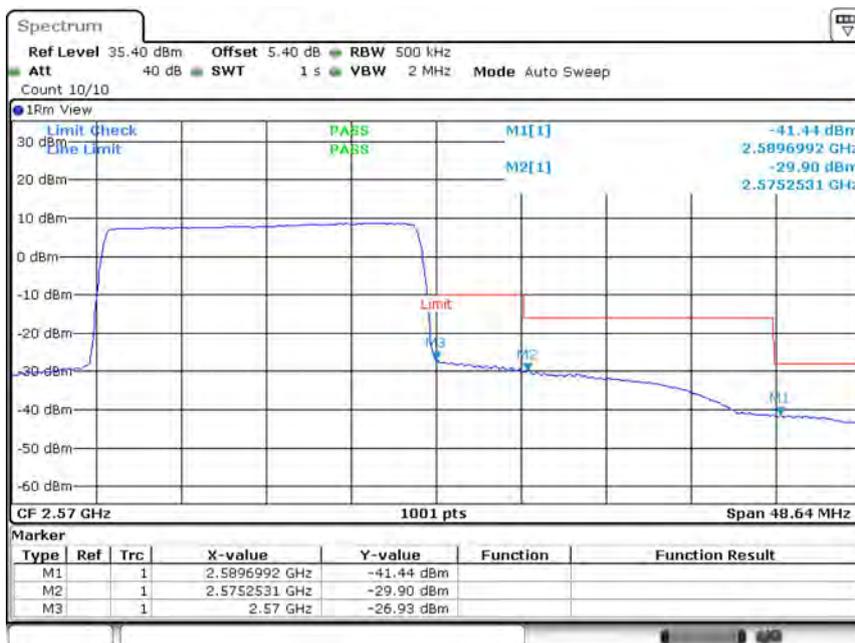
Date: 27 JUL 2020 12:37:45



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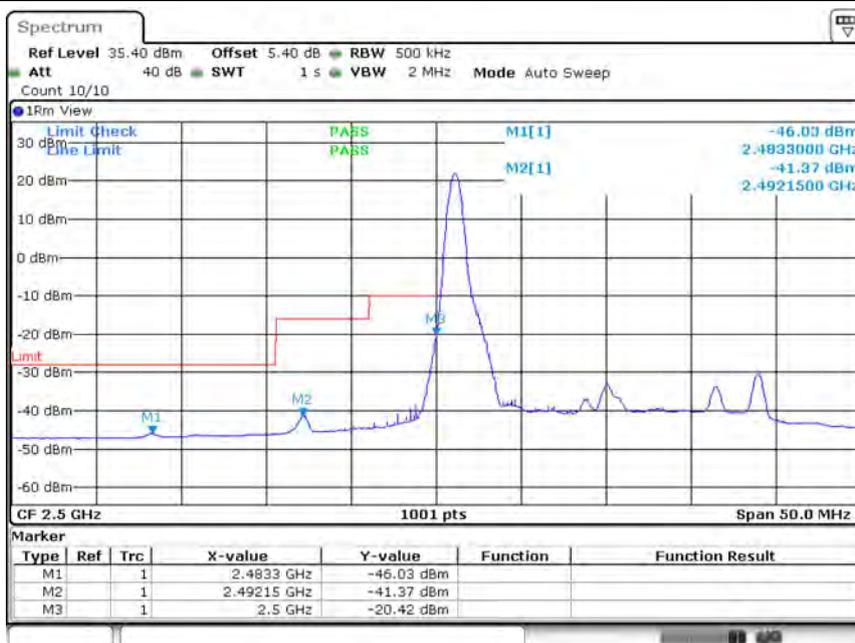
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**Band7-20MHz-QPSK-21350-100RB#0**



Date: 27 JUL 2020 12:39:15

**Band7-20MHz-64QAM-20850-1RB#0**



Date: 27 JUL 2020 12:53:06



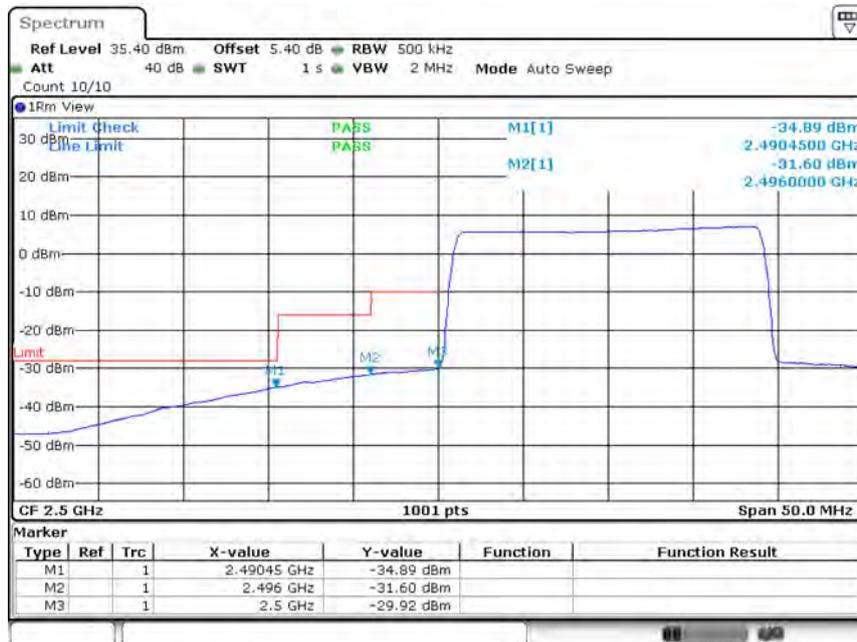
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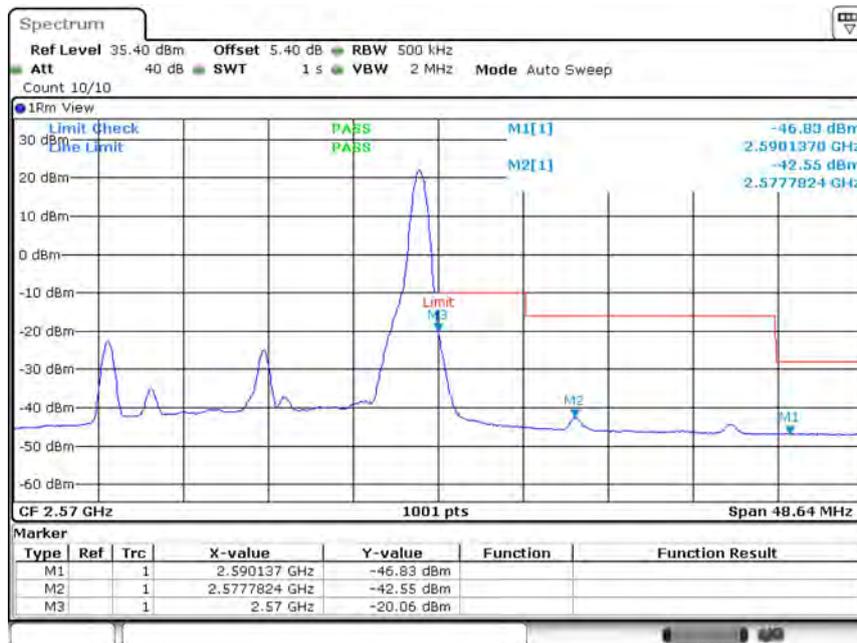


**Band7-20MHz-64QAM-20850-100RB#0**



Date: 27 JUL 2020 12:53:58

**Band7-20MHz-64QAM-21350-1RB#99**



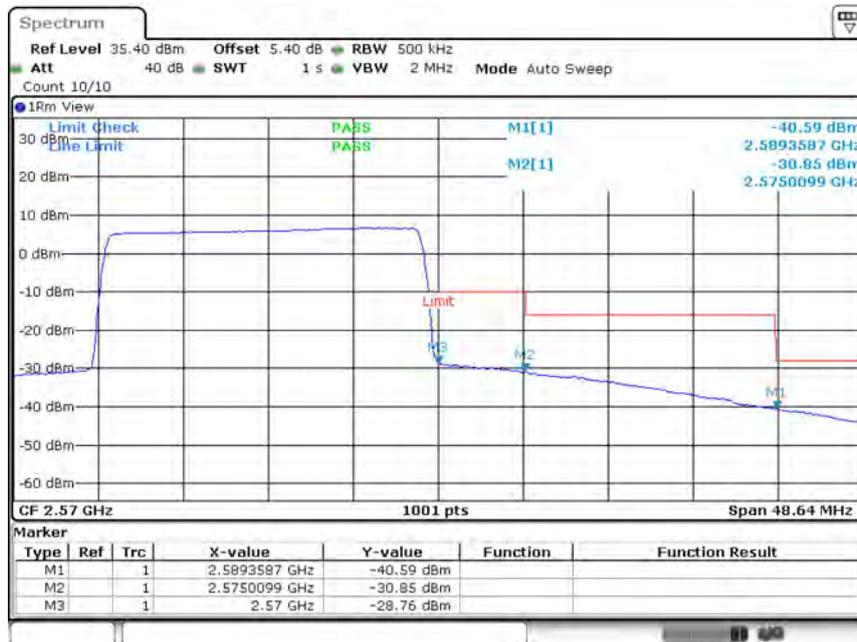
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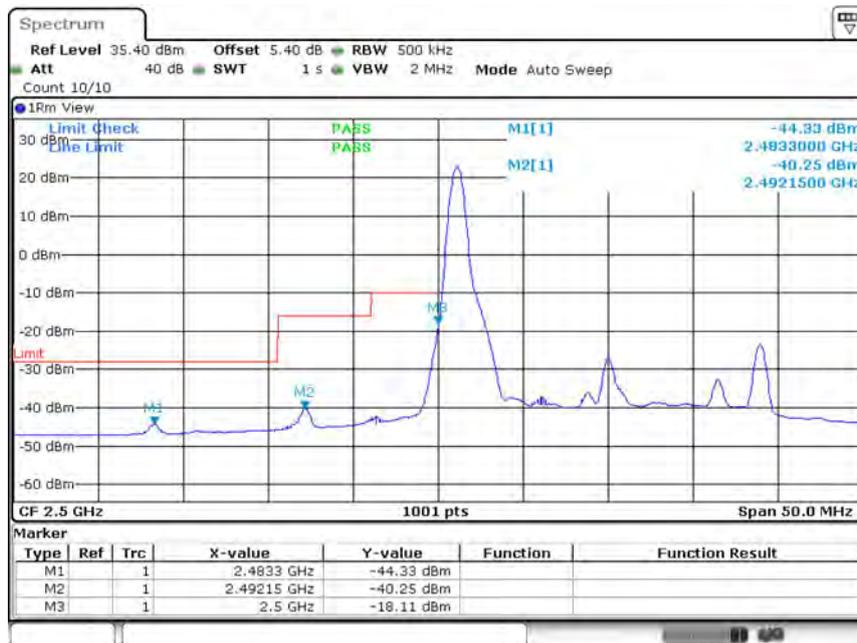
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**Band7-20MHz-64QAM-21350-100RB#0**



Date: 27 JUL 2020 12:54:20

**Band7-20MHz-16QAM-20850-1RB#0**



Date: 27 JUL 2020 12:37:19

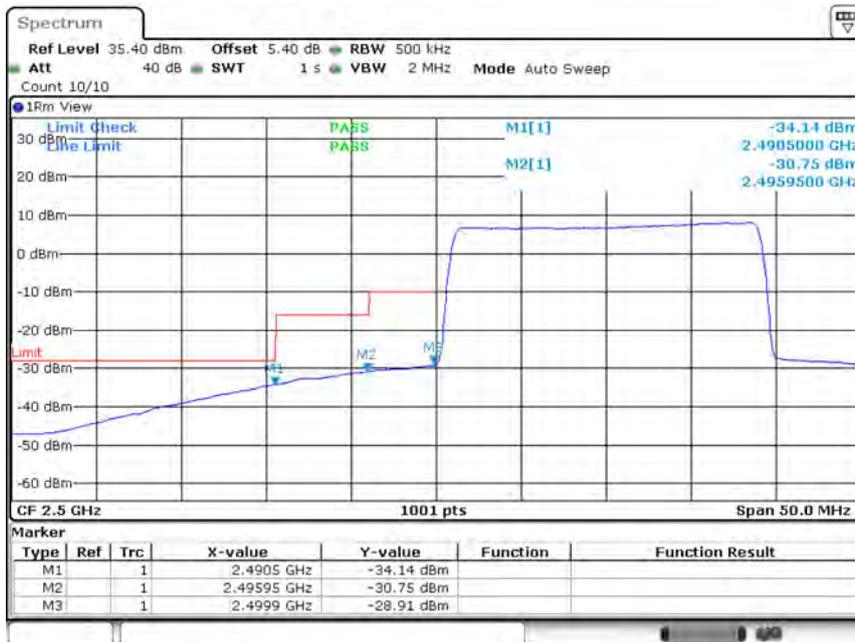


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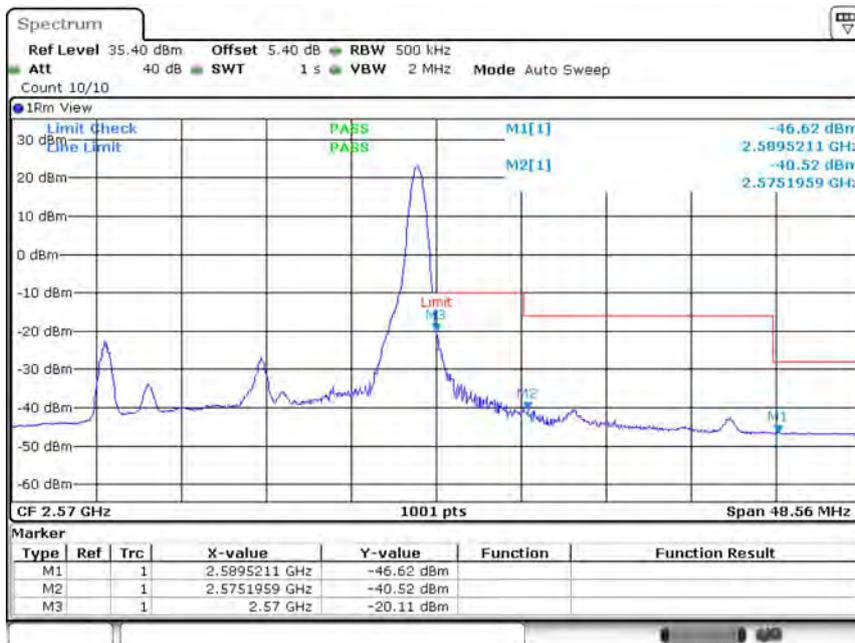
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**Band7-20MHz-16QAM-20850-100RB#0**



Date: 27 JUL 2020 12:38:53

**Band7-20MHz-16QAM-21350-1RB#99**



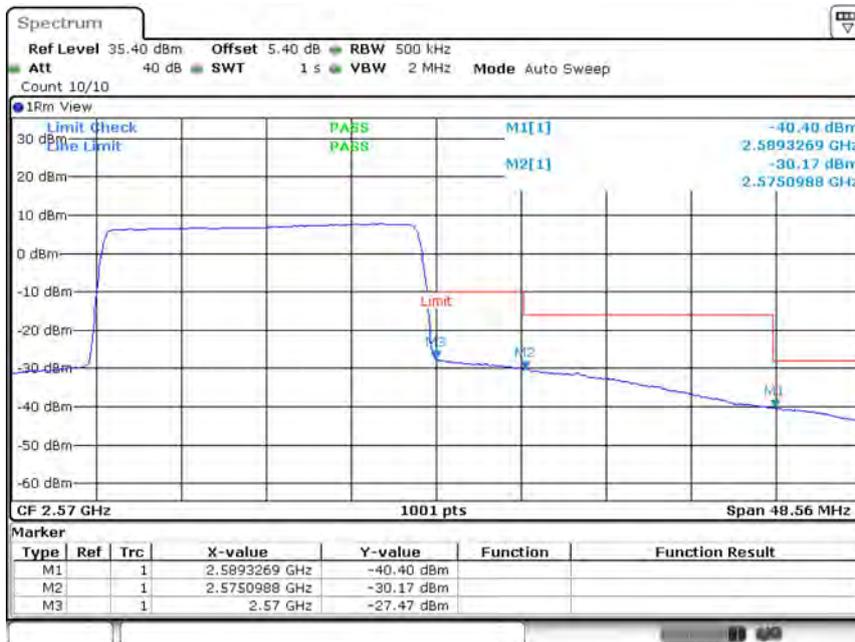
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Band7-20MHz-16QAM-21350-100RB#0



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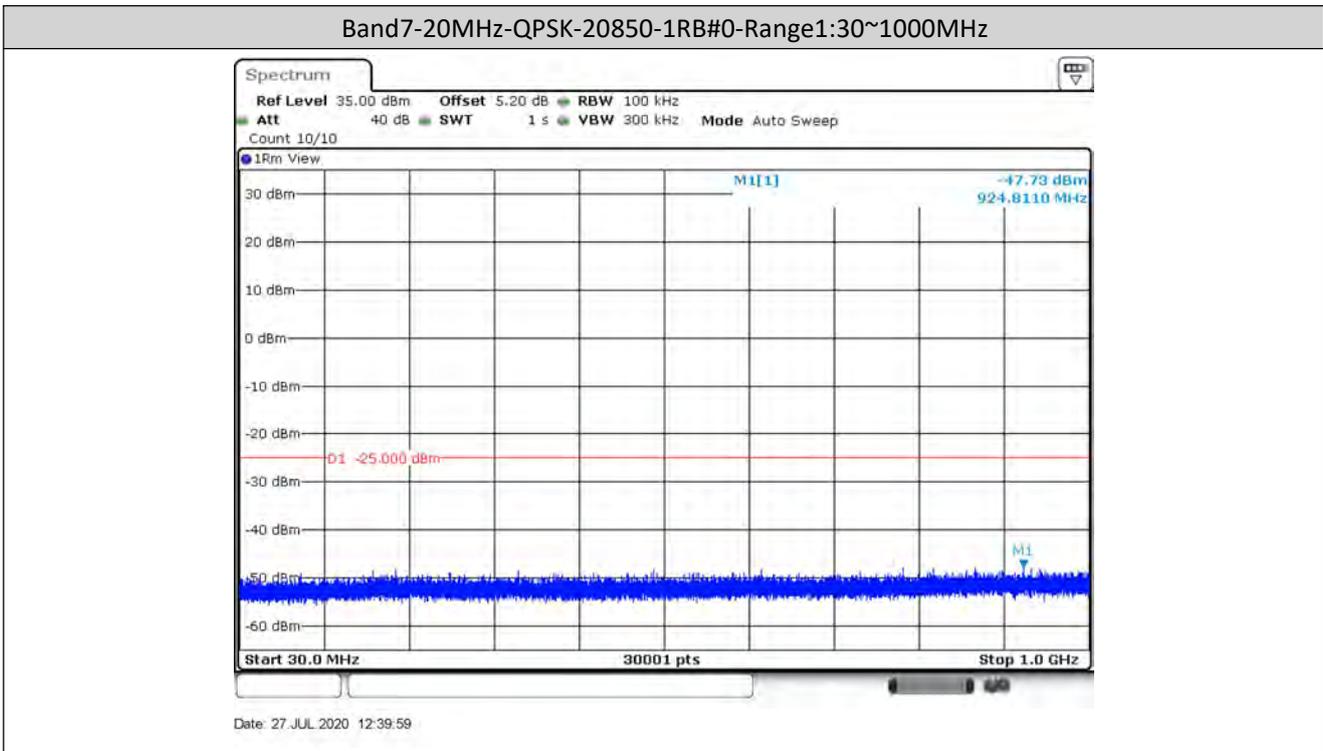
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## 6. Spurious Emission at Antenna Terminal

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

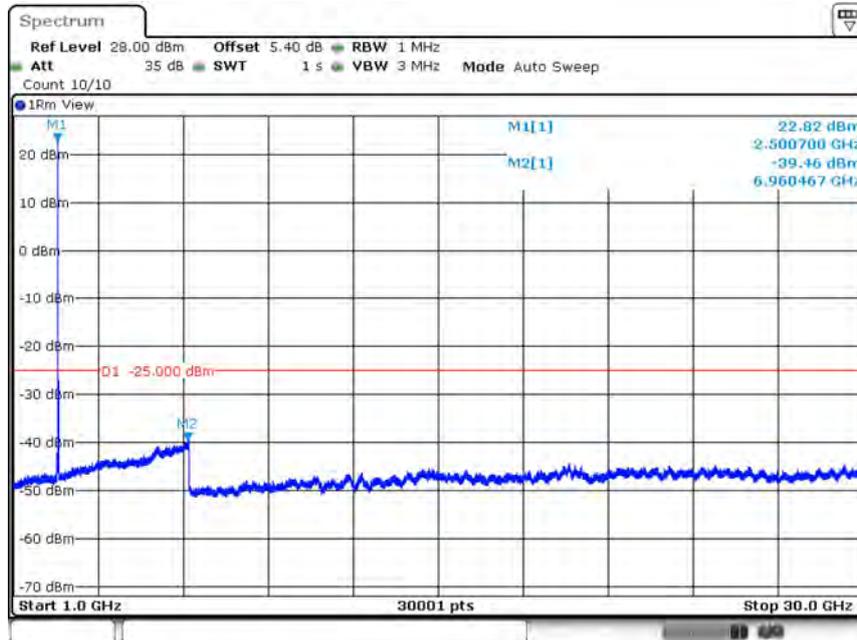


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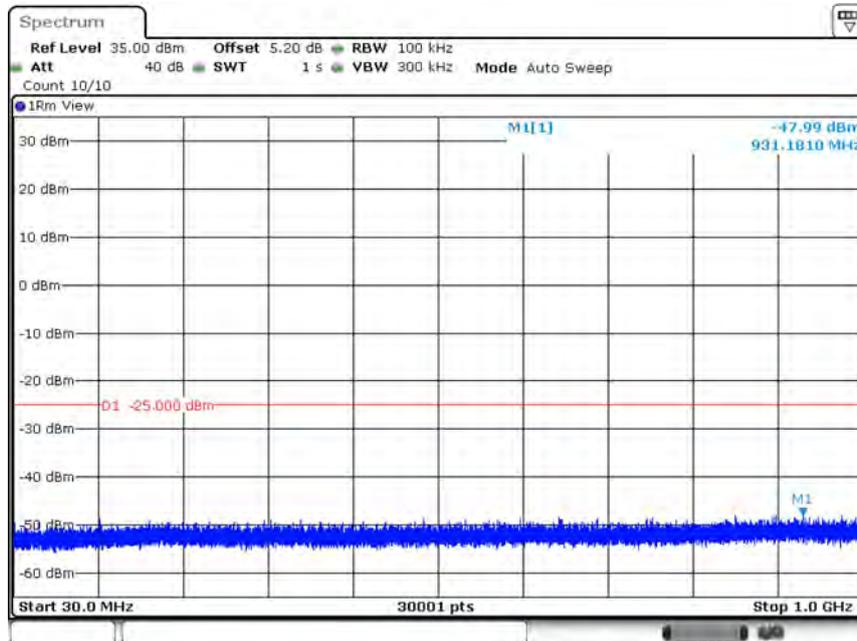


**Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~3000MHz**



Date: 27 JUL 2020 12:40:16

**Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz**



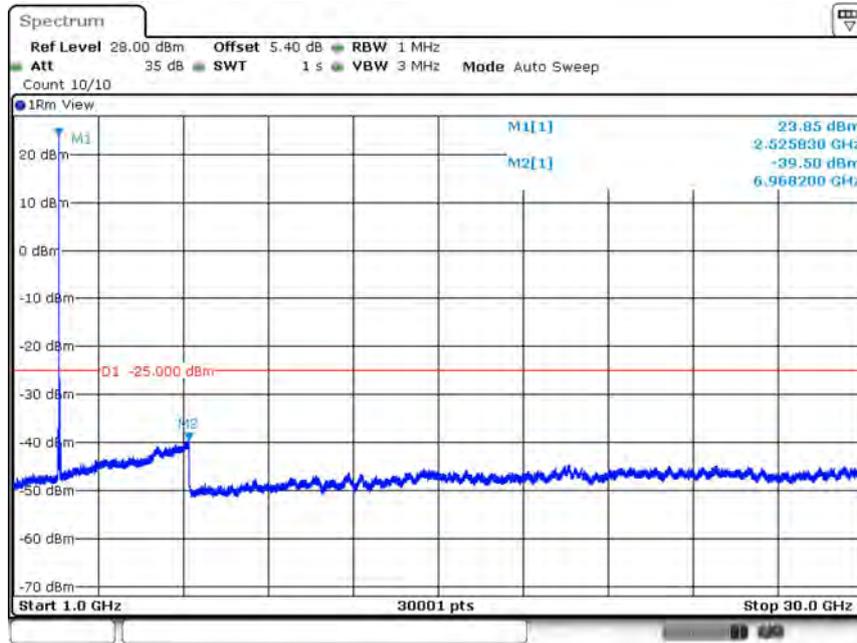
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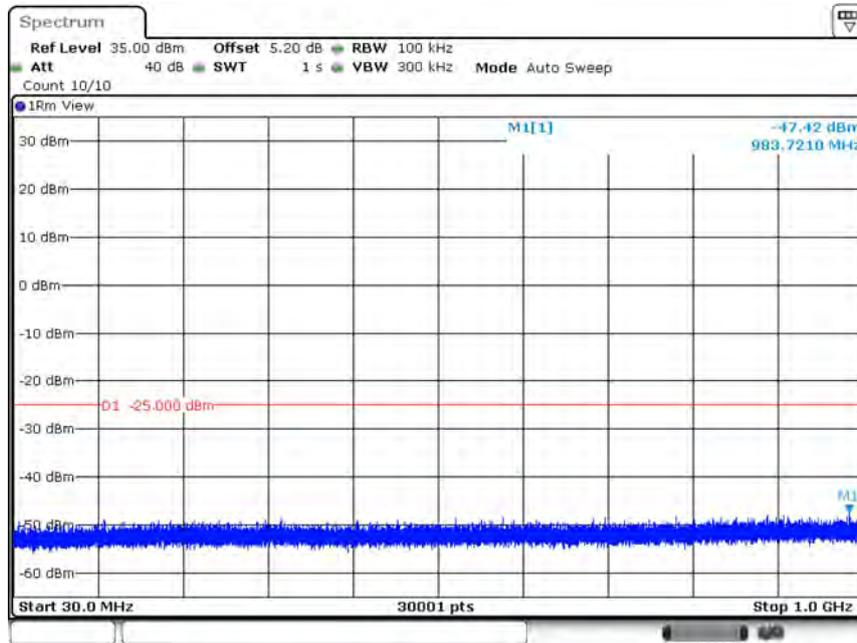


**Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~3000MHz**



Date: 27 JUL 2020 12:41:26

**Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz**



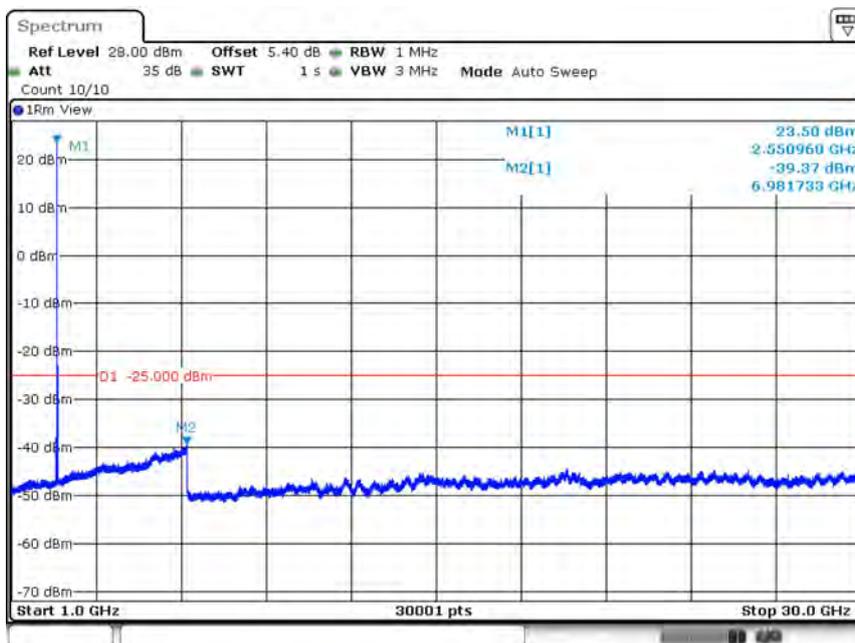
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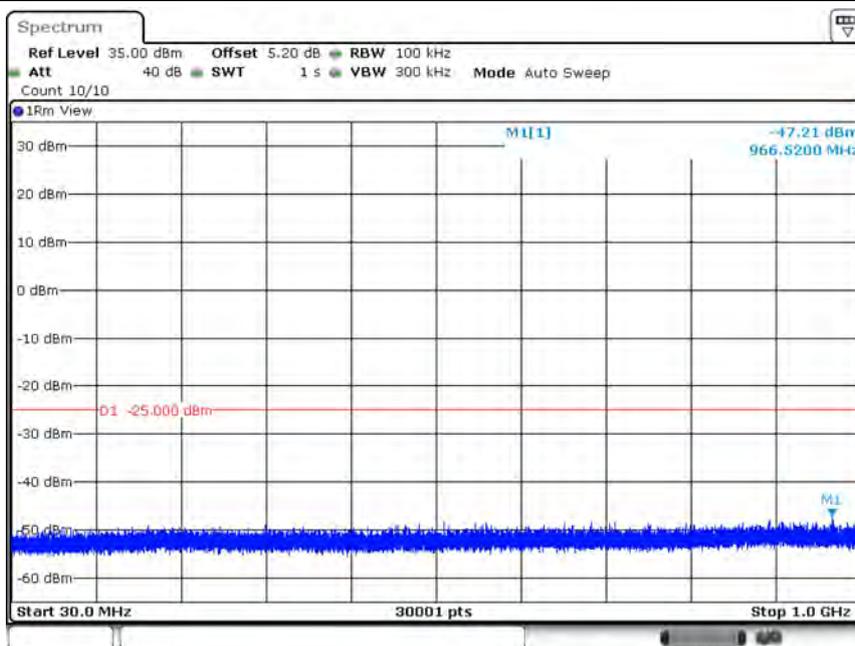


**Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~3000MHz**



Date: 27 JUL 2020 12:42:37

**Band7-20MHz-64QAM-20850-1RB#0-Range1:30~1000MHz**



Date: 27 JUL 2020 12:54:43



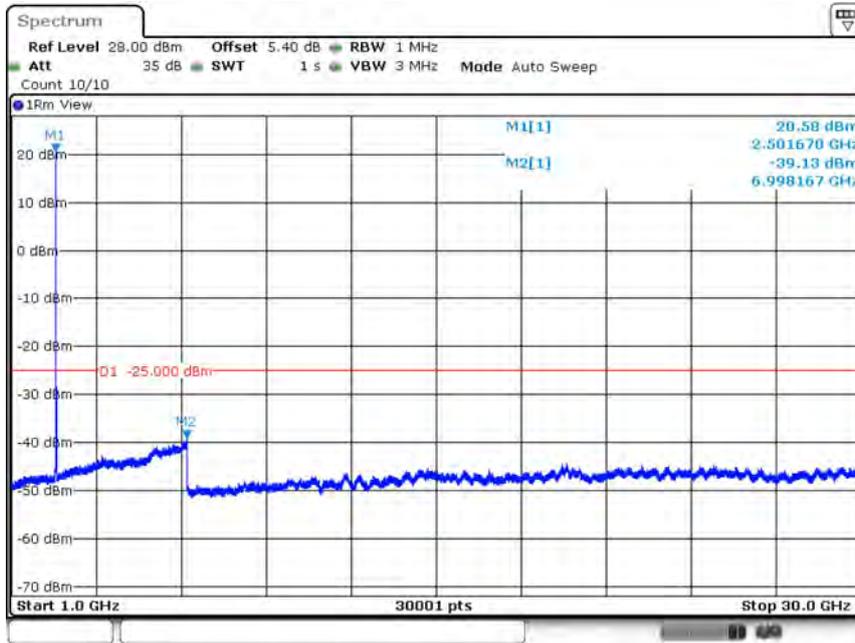
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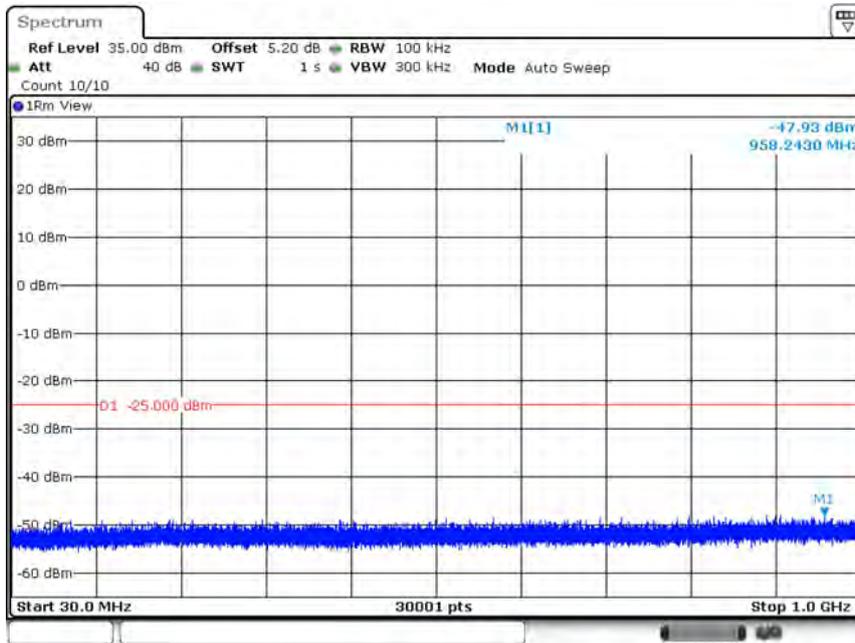


**Band7-20MHz-64QAM-20850-1RB#0-Range2:1000~30000MHz**



Date: 27 JUL 2020 12:55:00

**Band7-20MHz-64QAM-21100-1RB#0-Range1:30~1000MHz**

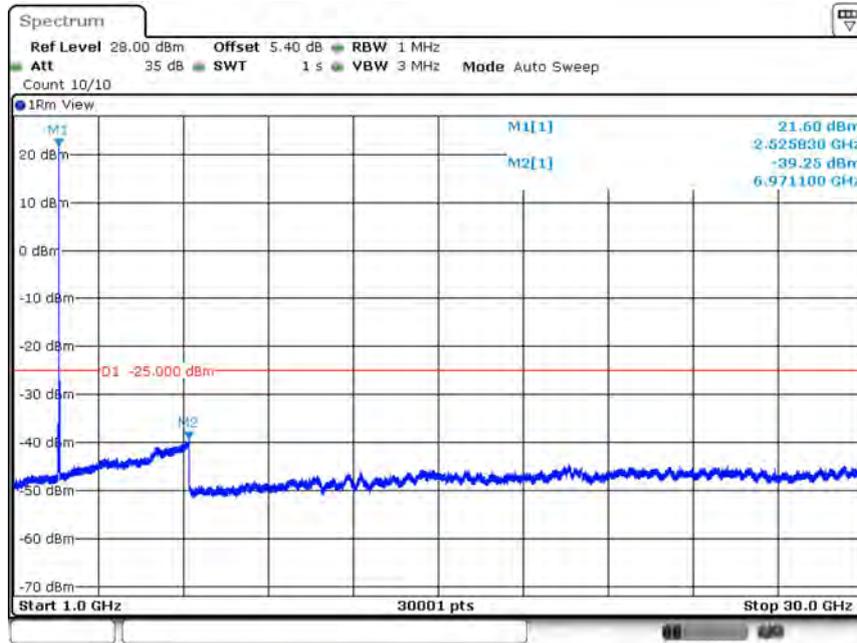


Date: 27 JUL 2020 12:55:18



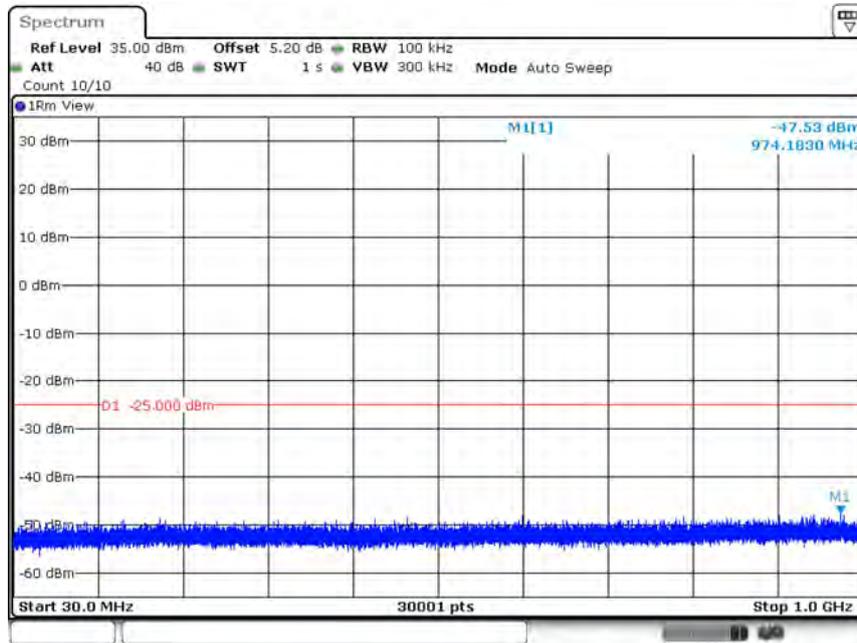
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**Band7-20MHz-64QAM-21100-1RB#0-Range2:1000~30000MHz**



Date: 27 JUL 2020 12:55:35

**Band7-20MHz-64QAM-21350-1RB#0-Range1:30~1000MHz**



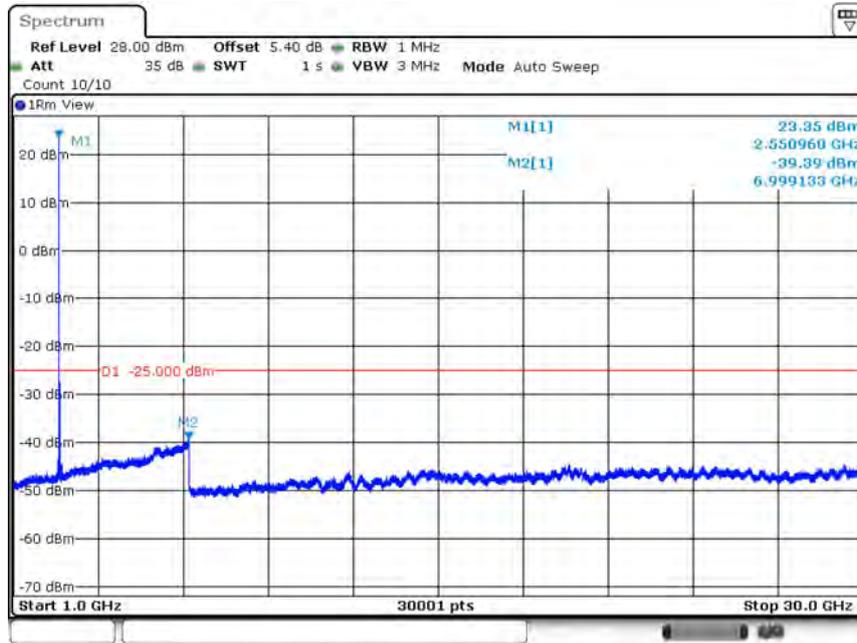
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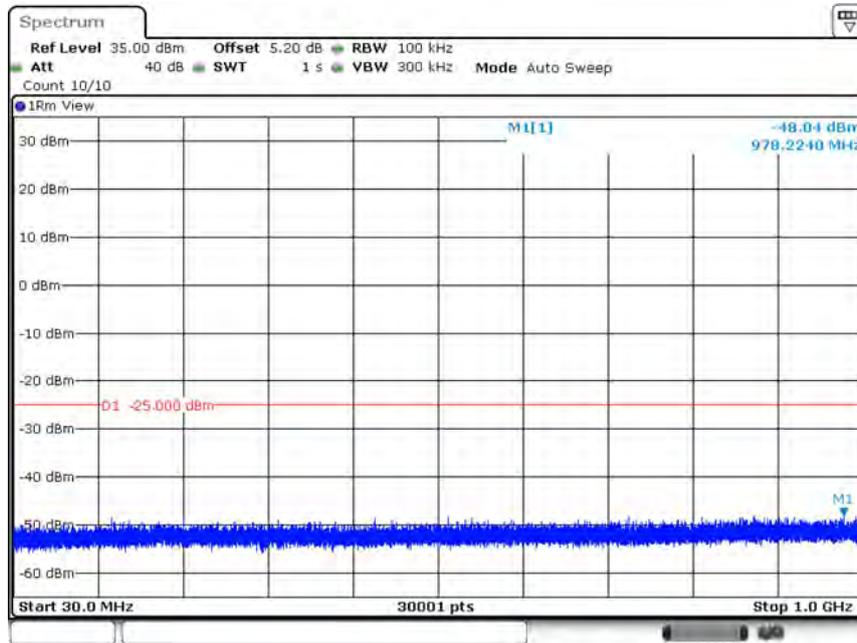


**Band7-20MHz-64QAM-21350-1RB#0-Range2:1000~30000MHz**



Date: 27 JUL 2020 12:56:11

**Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz**



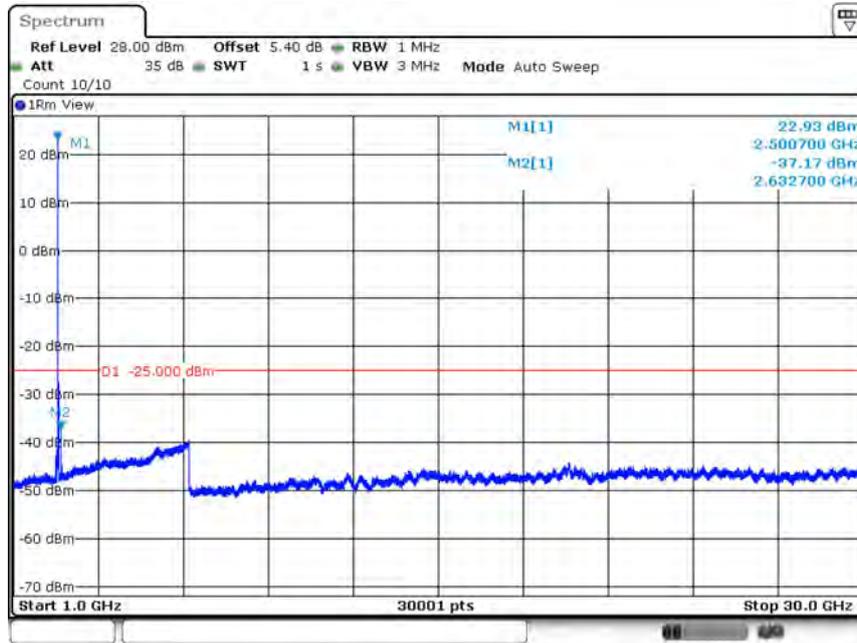
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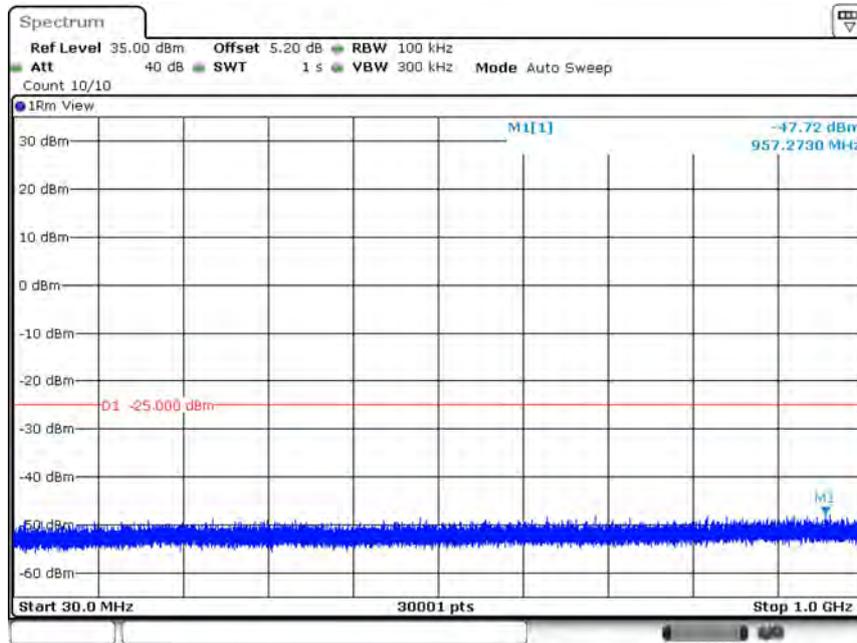


**Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz**



Date: 27 JUL 2020 12:40:51

**Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz**



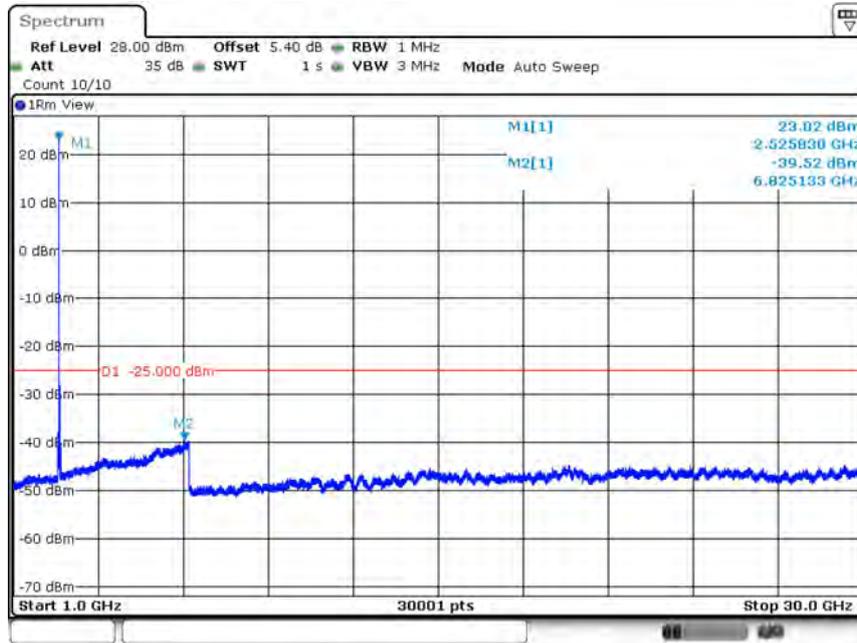
Date: 27 JUL 2020 12:41:45



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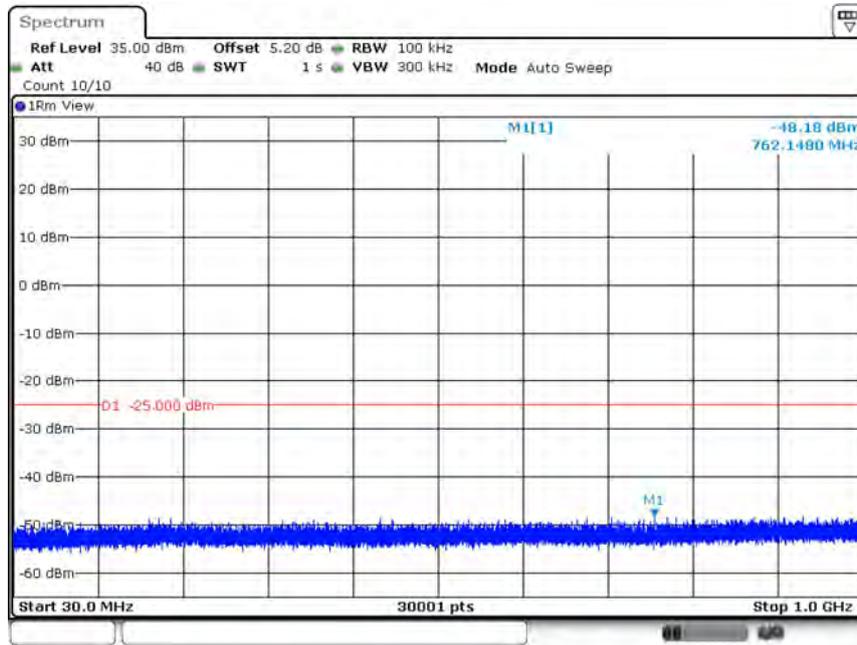


**Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz**



Date: 27 JUL 2020 12:42:01

**Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz**



Date: 27 JUL 2020 12:42:56

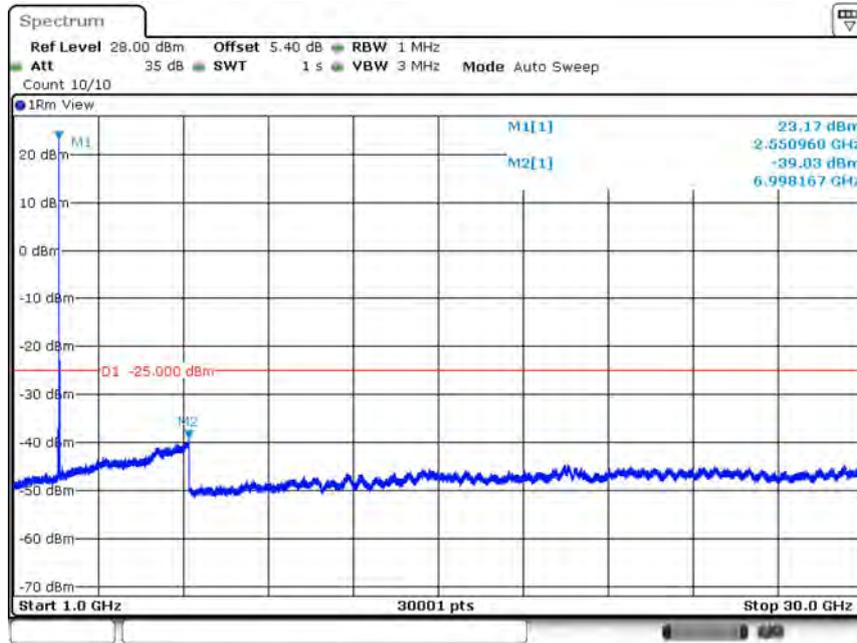


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**Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz**



Date: 27 JUL 2020 12:43:12



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = LTE\_Band=7 BW=20MHz\_TM1

#### 7.1.1. Test Channel = 20850

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.6477	-72.03	-65.03	-25.00	40.03	174	111	Horizontal
2	578.7079	-72.86	-65.75	-25.00	40.75	185	346	Horizontal
3	1803.3607	-70.41	-44.40	-25.00	19.40	132	356	Horizontal
4	7420.9768	-58.37	-58.42	-25.00	33.42	262	89	Horizontal
5	12884.7954	-61.42	-51.79	-25.00	26.79	291	218	Horizontal
6	16385.9354	-60.00	-45.80	-25.00	20.80	154	111	Horizontal



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**7.2. Test Band = LTE\_Band=7 BW=20MHz\_TM1**

**7.2.1. Test Channel = 20850**

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	112.6481	-72.18	-66.00	-25.00	41.00	258	198	Vertical
2	616.2973	-72.33	-64.75	-25.00	39.75	296	112	Vertical
3	1637.3275	-70.20	-45.42	-25.00	20.42	174	334	Vertical
4	7503.1801	-56.48	-56.42	-25.00	31.42	185	47	Vertical
5	14455.6582	-61.52	-49.37	-25.00	24.37	231	90	Vertical
6	17998.1999	-59.71	-41.88	-25.00	16.88	262	176	Vertical



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**7.3. Test Band = LTE\_Band=7 BW=20MHz\_TM1**

**7.3.1. Test Channel = 21100**

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.5322	-71.64	-64.70	-25.00	39.70	174	176	Horizontal
2	627.5984	-71.57	-63.80	-25.00	38.80	185	90	Horizontal
3	1801.3603	-70.65	-44.62	-25.00	19.62	196	60	Horizontal
4	5052.0821	-55.68	-62.58	-25.00	37.58	231	26	Horizontal
5	9294.2518	-60.92	-55.07	-25.00	30.07	262	47	Horizontal
6	16391.3357	-59.82	-45.53	-25.00	20.53	251	265	Horizontal



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**7.4. Test Band = LTE\_Band=7 BW=20MHz\_TM1**

**7.4.1. Test Channel = 21100**

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	113.2787	-71.51	-65.39	-25.00	40.39	152	345	Vertical
2	652.5771	-71.91	-64.40	-25.00	39.40	252	324	Vertical
3	1664.5329	-70.46	-45.54	-25.00	20.54	248	332	Vertical
4	7347.7739	-58.28	-57.77	-25.00	32.77	176	26	Vertical
5	14473.0589	-61.34	-49.05	-25.00	24.05	212	239	Vertical
6	17997.5999	-59.96	-42.14	-25.00	17.14	335	153	Vertical



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**7.5. Test Band = LTE\_Band=7 BW=20MHz\_TM1**  
**7.5.1. Test Channel = 21350**

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.1556	-71.72	-64.90	-25.00	39.90	159	282	Horizontal
2	618.3344	-72.55	-64.83	-25.00	39.83	199	154	Horizontal
3	1791.3583	-70.42	-44.57	-25.00	19.57	231	170	Horizontal
4	5101.8841	-54.25	-60.85	-25.00	35.85	262	4	Horizontal
5	10614.9046	-60.37	-54.21	-25.00	29.21	285	240	Horizontal
6	16406.9363	-60.40	-46.13	-25.00	21.13	154	69	Horizontal



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**7.6. Test Band = LTE\_Band=7 BW=20MHz\_TM1**

**7.6.1. Test Channel = 21350**

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	107.6039	-71.16	-65.31	-25.00	40.31	158	4	Vertical
2	612.0291	-72.64	-65.04	-25.00	40.04	196	346	Vertical
3	1623.7247	-70.78	-46.07	-25.00	21.07	231	250	Vertical
4	5101.8841	-56.88	-63.86	-25.00	38.86	224	326	Vertical
5	14498.8600	-62.13	-49.63	-25.00	24.63	174	218	Vertical
6	17999.4000	-59.50	-41.64	-25.00	16.64	185	326	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 [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-2.50	-0.000996	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	2.40	0.000956	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-12.40	-0.004940	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	3.40	0.001341	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	9.90	0.003905	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-12.30	-0.004852	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	6.90	0.002695	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-14.90	-0.005820	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	3.20	0.001250	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VL	NT	-1.10	-0.000438	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VN	NT	-9.20	-0.003665	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VH	NT	-1.70	-0.000677	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VL	NT	4.80	0.001893	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VN	NT	-2.70	-0.001065	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VH	NT	3.70	0.001460	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VL	NT	-14.40	-0.005625	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VN	NT	4.00	0.001563	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VH	NT	-10.80	-0.004219	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-9.90	-0.003944	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-4.30	-0.001713	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-12.40	-0.004940	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	3.60	0.001420	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	4.30	0.001696	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	5.00	0.001972	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-10.50	-0.004102	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-1.60	-0.000625	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	1.30	0.000508	±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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Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-8.40	-0.003347	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	1.40	0.000558	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	1.80	0.000717	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-1.90	-0.000757	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-3.70	-0.001474	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	2.20	0.000876	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-10.70	-0.004263	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	1.90	0.000757	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-11.80	-0.004655	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-2.20	-0.000868	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	4.80	0.001893	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-10.70	-0.004221	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-3.70	-0.001460	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-0.80	-0.000316	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	1.80	0.000710	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-9.60	-0.003787	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	1.50	0.000586	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-14.40	-0.005625	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-7.20	-0.002813	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-16.90	-0.006602	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	2.20	0.000859	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-13.30	-0.005195	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-14.20	-0.005547	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	4.90	0.001914	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-30	1.50	0.000598	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-20	-9.60	-0.003825	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	0	-1.50	-0.000598	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	10	7.20	0.002869	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	20	-3.80	-0.001514	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	30	-16.30	-0.006494	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	40	-7.10	-0.002829	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	50	-12.30	-0.004900	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-30	3.00	0.001183	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-20	15.70	0.006193	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	0	-3.10	-0.001223	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	10	-9.20	-0.003629	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	20	-4.60	-0.001815	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	30	-13.80	-0.005444	±2.5	PASS



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Band7	20MHz	64QAM	21100	100RB#0	NV	40	-2.30	-0.000907	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	50	-9.20	-0.003629	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-30	-17.00	-0.006641	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-20	-15.40	-0.006016	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	0	-3.60	-0.001406	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	10	-6.20	-0.002422	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	20	-10.80	-0.004219	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	30	-7.70	-0.003008	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	40	-16.80	-0.006563	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	50	-10.40	-0.004063	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-17.30	-0.006892	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	-7.00	-0.002789	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-5.90	-0.002351	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-6.50	-0.002590	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-1.50	-0.000598	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	3.30	0.001315	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	8.40	0.003347	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	9.30	0.003705	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-10.60	-0.004181	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-4.50	-0.001775	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-15.20	-0.005996	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-15.50	-0.006114	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	4.20	0.001657	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-9.40	-0.003708	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-6.50	-0.002564	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-10.70	-0.004221	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-18.70	-0.007305	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-9.10	-0.003555	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-7.70	-0.003008	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-4.90	-0.001914	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-5.50	-0.002148	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-21.40	-0.008359	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-2.30	-0.000898	±2.5	PASS



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