Appendix B

E-UTRA Band 7

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.02	21.62	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.99	21.59	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.92	21.52	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.06	20.66	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.11	20.71	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.03	20.63	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.08	20.68	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.93	21.53	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.92	21.52	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.05	21.65	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.00	20.6	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.13	20.73	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.11	20.71	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.12	20.72	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.05	21.65	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.03	21.63	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.11	21.71	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.10	20.7	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.16	20.76	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.12	20.72	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.14	20.74	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#0	20.74	19.34	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#24	20.72	19.32	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#12	20.73	19.33	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#0	20.08	18.68	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#6	19.99	18.59	33.00	PASS
Band7	5MHz	64QAM	20775	12RB#13	20.06	18.66	33.00	PASS

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Band7	5MHz	64QAM	20775	25RB#0	20.03	18.63	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#0	20.53	19.13	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#12	20.83	19.43	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#24	20.85	19.45	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#13	20.19	18.79	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#6	20.15	18.75	33.00	PASS
Band7	5MHz	64QAM	21100	12RB#0	20.06	18.66	33.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.10	18.7	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#0	20.75	19.35	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#12	20.76	19.36	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#24	20.70	19.3	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#0	20.13	18.73	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#6	20.14	18.74	33.00	PASS
Band7	5MHz	64QAM	21425	12RB#13	20.05	18.65	33.00	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.00	18.6	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.87	20.47	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.86	20.46	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.78	20.38	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.08	19.68	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.09	19.69	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.12	19.72	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.11	19.71	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.68	20.28	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.87	20.47	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.94	20.54	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.20	19.8	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.17	19.77	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.11	19.71	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.16	19.76	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.80	20.4	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.90	20.5	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.75	20.35	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.21	19.81	33.00	PASS

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Band7	5MHz	16QAM	21425	12RB#6	21.19	19.79	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.19	19.79	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.15	19.75	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.08	21.68	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.09	21.69	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.21	21.81	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.10	20.7	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.15	20.75	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.10	20.7	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.17	20.77	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.06	21.66	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.91	21.51	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.07	21.67	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.01	20.61	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.05	20.65	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.99	20.59	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.00	20.6	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.17	21.77	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.11	21.71	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.27	21.87	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.20	20.8	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.18	20.78	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.22	20.82	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.25	20.85	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#24	20.78	19.38	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#49	20.80	19.4	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#0	20.68	19.28	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#0	20.22	18.82	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#12	19.92	18.52	33.00	PASS
Band7	10MHz	64QAM	20800	25RB#25	20.07	18.67	33.00	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.12	18.72	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#49	20.61	19.21	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#0	20.81	19.41	33.00	PASS

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Band7	10MHz	64QAM	21100	1RB#24	20.91	19.51	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#0	20.00	18.6	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#12	19.84	18.44	33.00	PASS
Band7	10MHz	64QAM	21100	25RB#25	19.91	18.51	33.00	PASS
Band7	10MHz	64QAM	21100	50RB#0	19.92	18.52	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#0	20.84	19.44	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#49	20.90	19.5	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#24	20.74	19.34	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#25	20.06	18.66	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#0	20.07	18.67	33.00	PASS
Band7	10MHz	64QAM	21400	25RB#12	20.22	18.82	33.00	PASS
Band7	10MHz	64QAM	21400	50RB#0	19.99	18.59	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.78	20.38	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.85	20.45	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.80	20.4	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.26	19.86	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.04	19.64	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.09	19.69	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.12	19.72	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.76	20.36	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.87	20.47	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.93	20.53	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.00	19.6	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.91	19.51	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.95	19.55	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.04	19.64	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.90	20.5	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.90	20.5	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.88	20.48	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.21	19.81	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.16	19.76	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.23	19.83	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.10	19.7	33.00	PASS

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Band7	15MHz	QPSK	20825	1RB#74	22.99	21.59	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.78	21.38	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.94	21.54	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	21.95	20.55	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.14	20.74	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.12	20.72	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.10	20.7	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.89	21.49	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.84	21.44	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.93	21.53	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	22.02	20.62	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.01	20.61	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.05	20.65	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.03	20.63	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.91	21.51	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.92	21.52	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.92	21.52	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.12	20.72	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.01	20.61	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	22.11	20.71	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.10	20.7	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#74	20.96	19.56	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#38	20.72	19.32	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#0	20.72	19.32	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#0	19.85	18.45	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#18	20.09	18.69	33.00	PASS
Band7	15MHz	64QAM	20825	36RB#39	20.08	18.68	33.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	19.89	18.49	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#38	20.78	19.38	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#74	20.66	19.26	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#0	20.83	19.43	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#39	19.93	18.53	33.00	PASS
Band7	15MHz	64QAM	21100	36RB#0	19.92	18.52	33.00	PASS

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Band7	15MHz	64QAM	21100	36RB#18	19.91	18.51	33.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	19.82	18.42	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#0	20.85	19.45	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#38	20.70	19.3	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#74	20.94	19.54	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#18	19.95	18.55	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#0	20.07	18.67	33.00	PASS
Band7	15MHz	64QAM	21375	36RB#39	20.03	18.63	33.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.01	18.61	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.03	20.63	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.80	20.4	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.85	20.45	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	20.95	19.55	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.12	19.72	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.19	19.79	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.00	19.6	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.90	20.5	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.78	20.38	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.94	20.54	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.00	19.6	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	21.00	19.6	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	21.06	19.66	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.94	19.54	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.87	20.47	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.73	20.33	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.94	20.54	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	21.09	19.69	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	21.10	19.7	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	21.09	19.69	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.06	19.66	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.95	21.55	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.91	21.51	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.11	21.71	33.00	PASS

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Band7	20MHz	QPSK	20850	50RB#25	22.11	20.71	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.00	20.6	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.23	20.83	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.94	20.54	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.02	21.62	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.82	21.42	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.05	21.65	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.06	20.66	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.02	20.62	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.05	20.65	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.04	20.64	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.98	21.58	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.97	21.57	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.99	21.59	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.14	20.74	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.08	20.68	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.07	20.67	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.20	20.8	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.04	19.64	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.14	19.74	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.08	19.68	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#50	19.97	18.57	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#0	20.05	18.65	33.00	PASS
Band7	20MHz	64QAM	20850	50RB#25	20.11	18.71	33.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	19.96	18.56	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.19	19.79	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#49	20.80	19.4	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.18	19.78	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#0	19.96	18.56	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#25	20.08	18.68	33.00	PASS
Band7	20MHz	64QAM	21100	50RB#50	19.92	18.52	33.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	19.90	18.5	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#99	20.93	19.53	33.00	PASS

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Band7	20MHz	64QAM	21350	1RB#0	20.90	19.5	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#49	20.81	19.41	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#0	20.05	18.65	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#50	20.10	18.7	33.00	PASS
Band7	20MHz	64QAM	21350	50RB#25	20.12	18.72	33.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.08	18.68	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.13	20.73	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.21	20.81	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.23	20.83	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.08	19.68	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.10	19.7	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.18	19.78	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.08	19.68	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.20	20.8	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.92	20.52	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.21	20.81	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.10	19.7	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.08	19.68	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.04	19.64	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.00	19.6	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.02	20.62	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.00	20.6	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.81	20.41	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.17	19.77	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.15	19.75	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.21	19.81	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.23	19.83	33.00	PASS

Remark:

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

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

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

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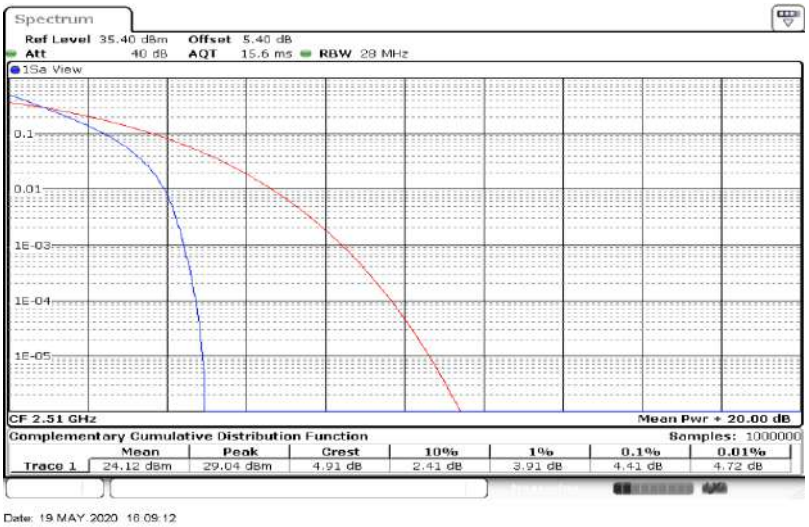
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	4.41	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.67	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.29	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.00	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.20	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	5.88	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.33	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.57	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.19	13	PASS

2.2. Test Plots

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



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

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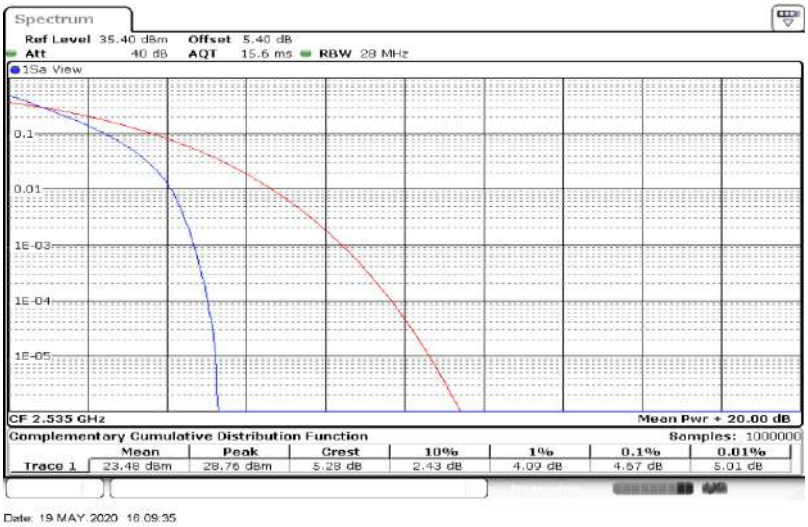
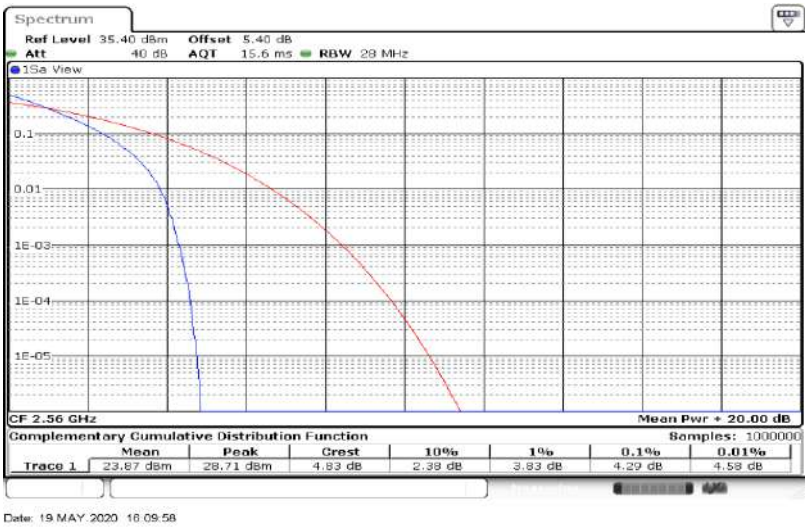


Band7-20MHz-QPSK-21350-100RB#0



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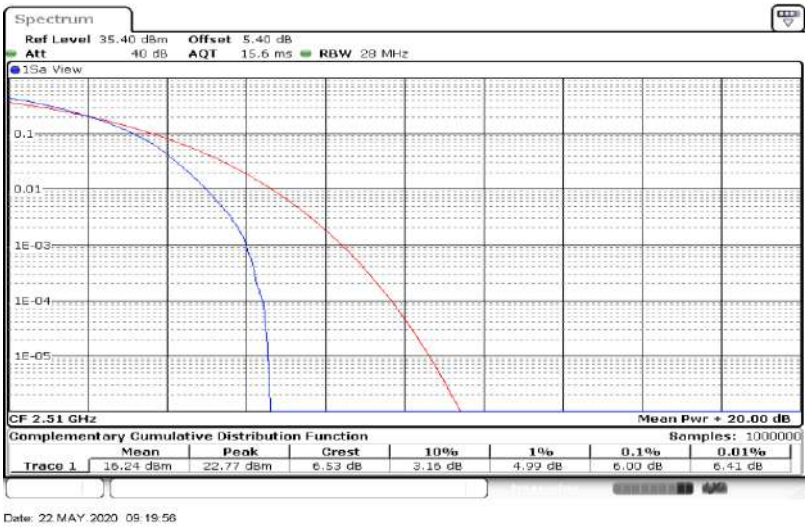
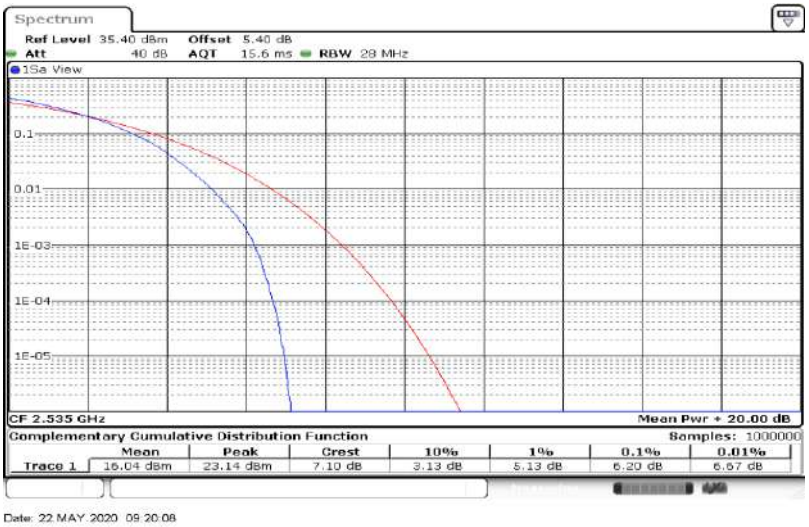


Band7-20MHz-64QAM-21100-100RB#0



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

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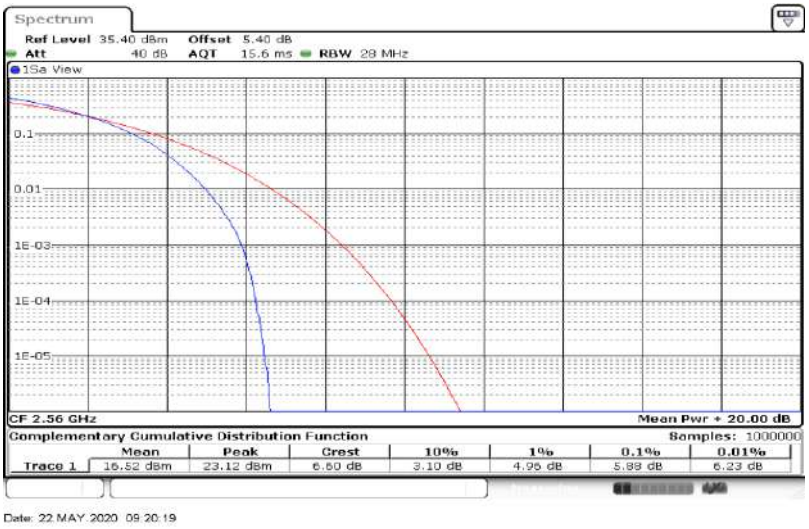
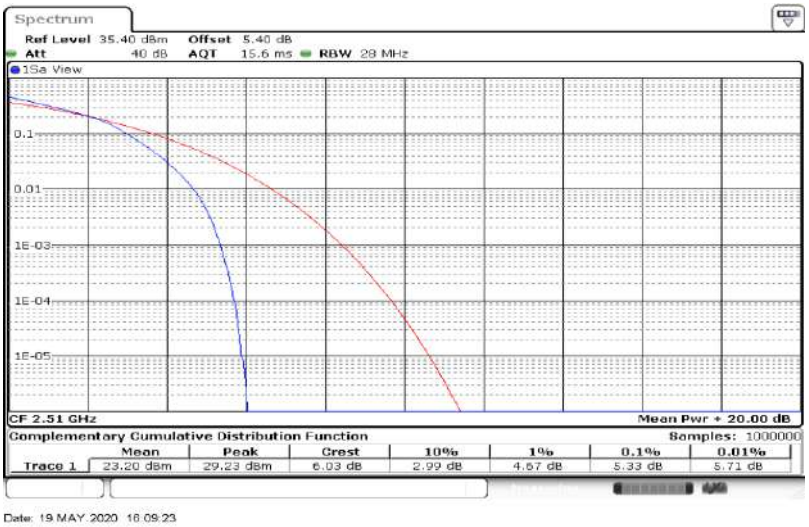


Band7-20MHz-16QAM-20850-100RB#0



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

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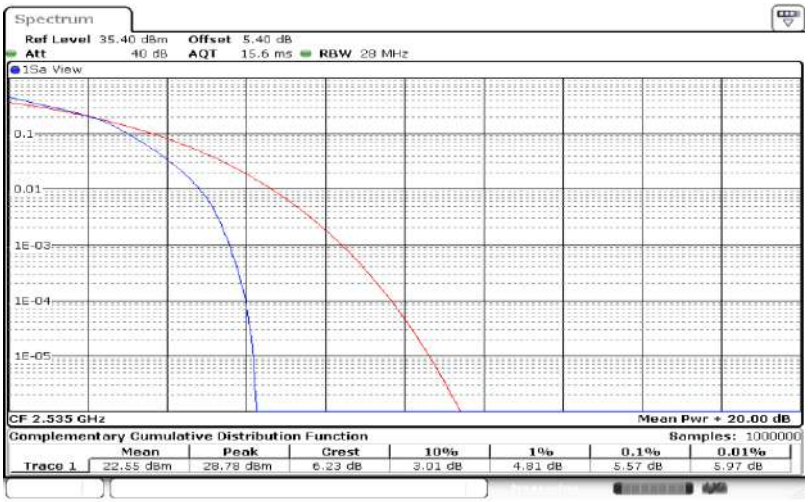

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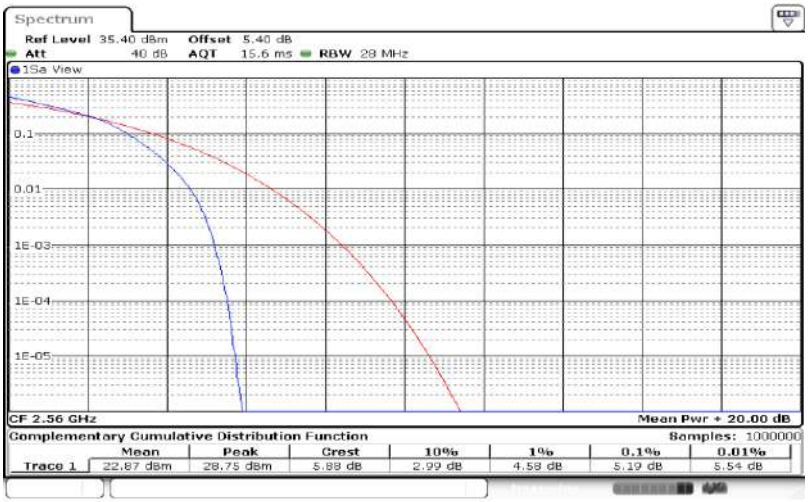

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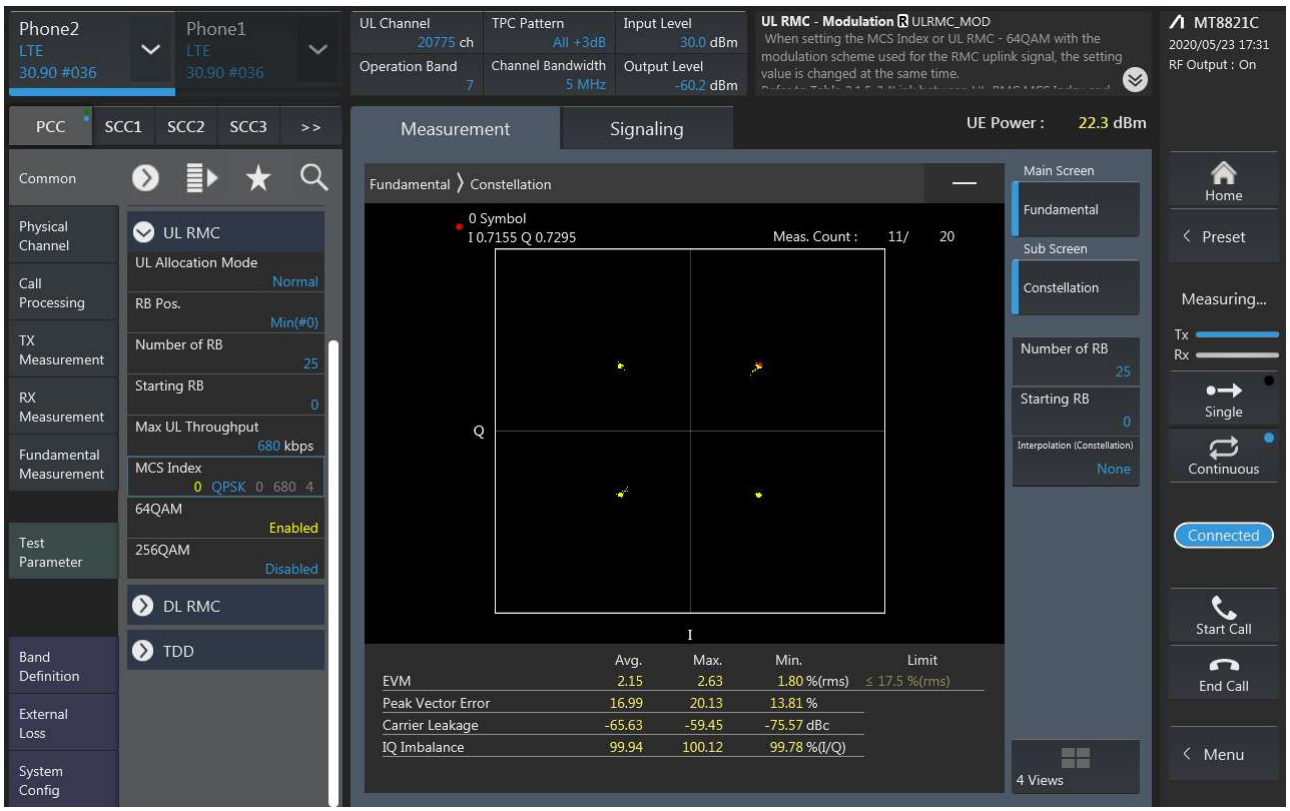
3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



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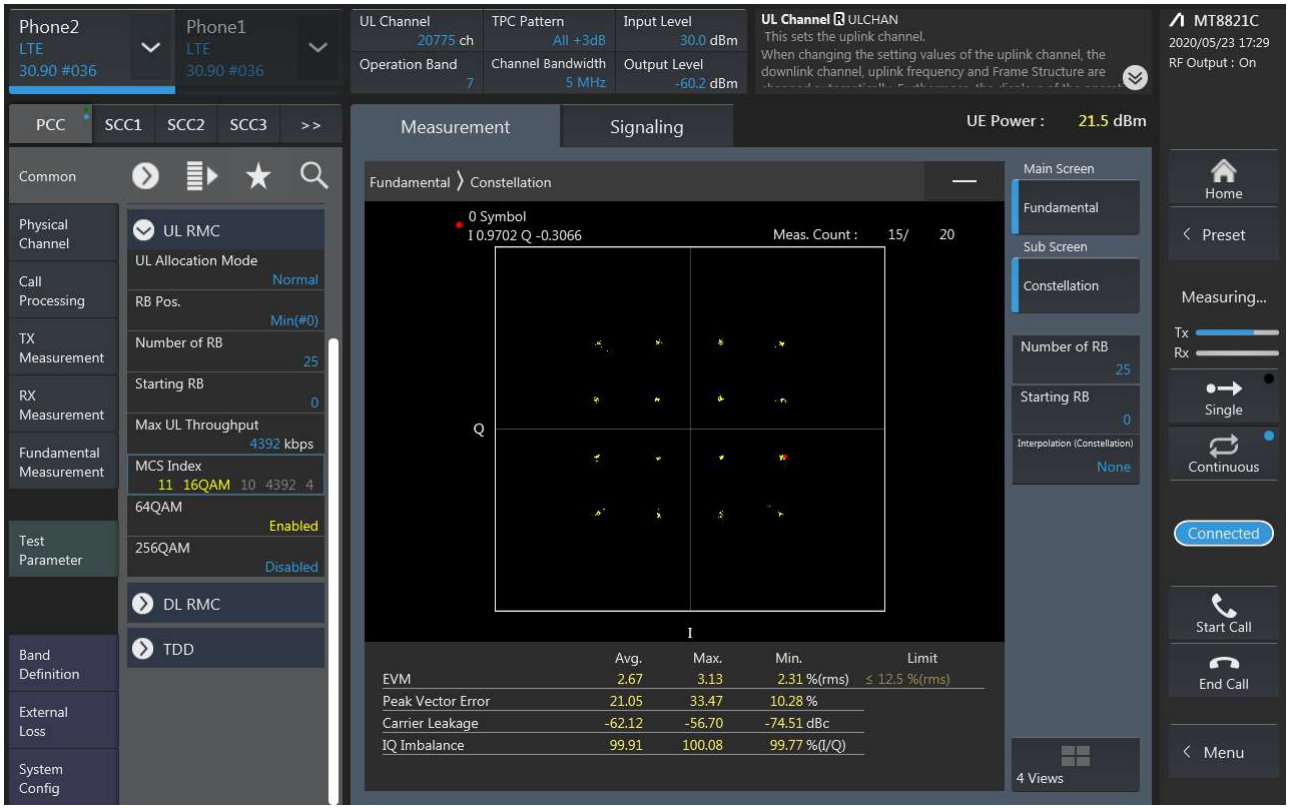
3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH



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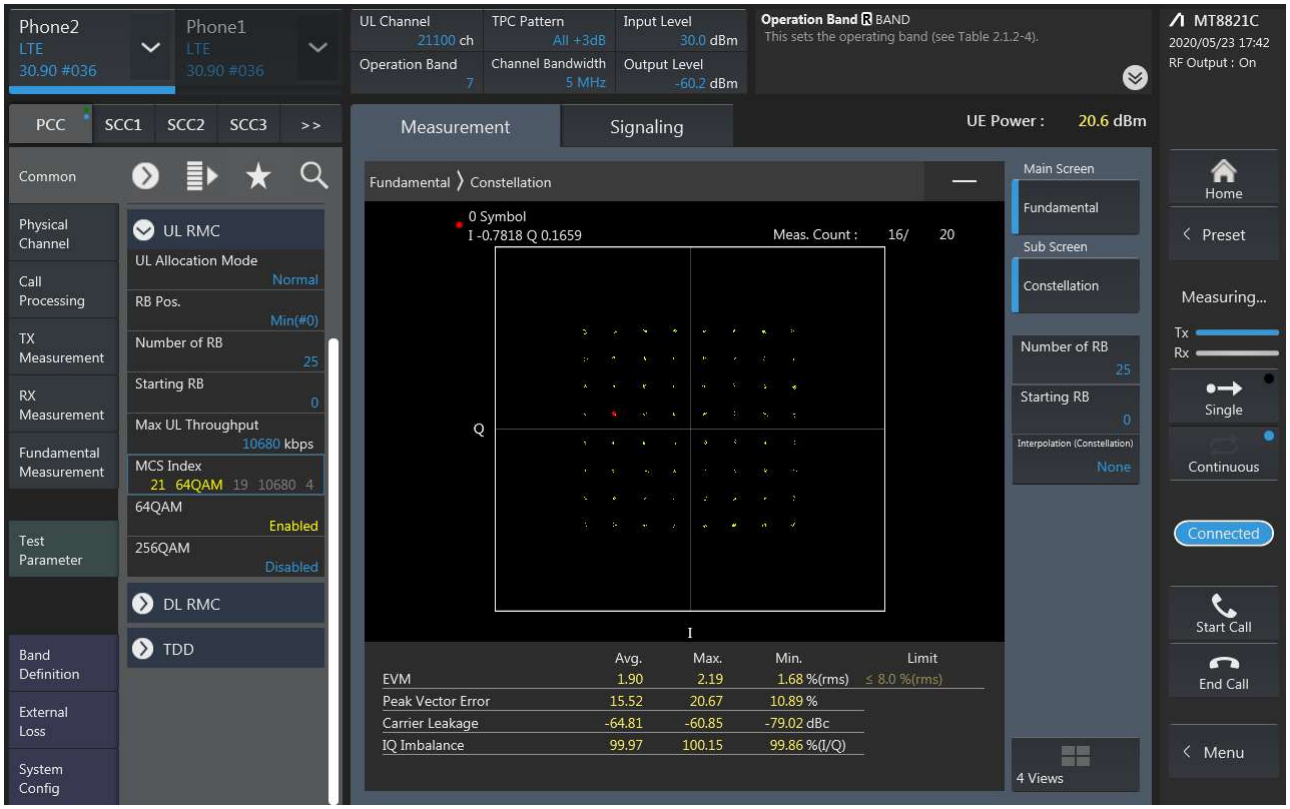
3.1.3.Test Mode = LTE /TM3 20MHz

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	4.930	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.930	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.930	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.466	4.890	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.476	4.910	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.476	4.890	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.950	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.960	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.476	4.960	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.760	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.720	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.740	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.931	9.660	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.931	9.720	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.931	9.700	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.931	9.760	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.911	9.740	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.931	9.700	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.820	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.457	14.850	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.457	14.760	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.457	14.910	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.427	14.850	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.457	14.850	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.790	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.457	14.730	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.457	14.850	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.902	19.360	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.902	19.480	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.902	19.520	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.902	19.400	PASS

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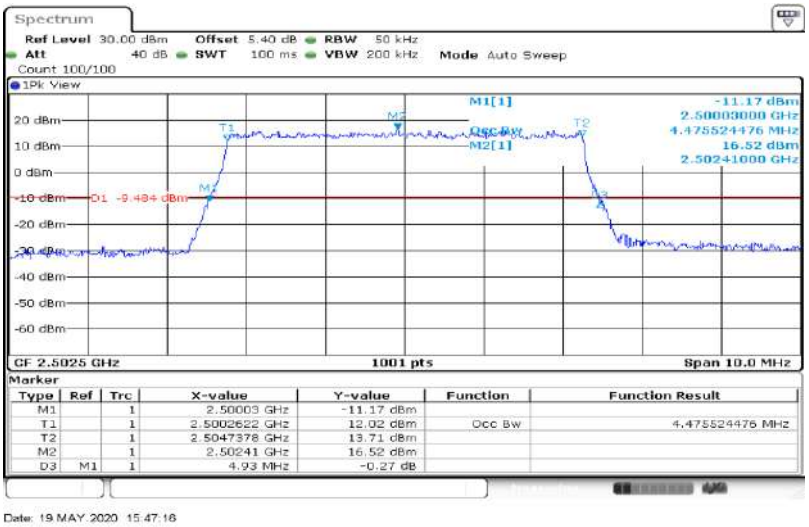
Band7	20MHz	64QAM	21100	100RB#0	17.902	19.480	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.902	19.440	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.360	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.862	19.440	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.902	19.360	PASS

4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.476



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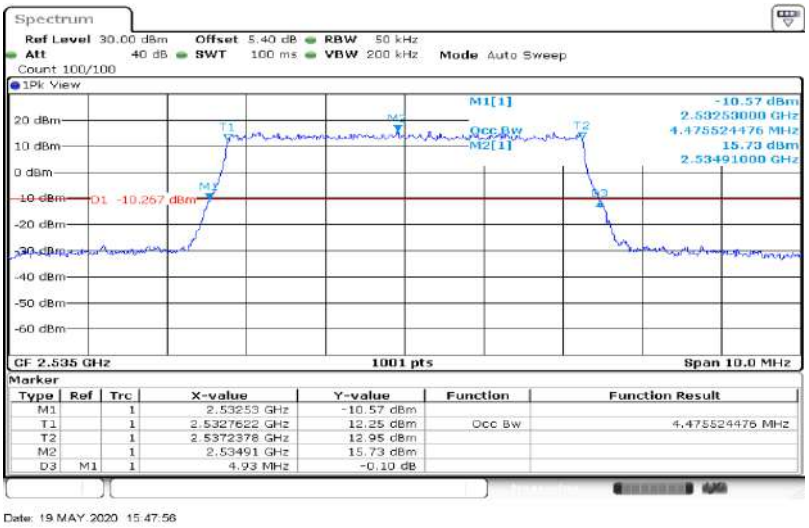

Band7-5MHz-QPSK-21425-25RB#0-4.476

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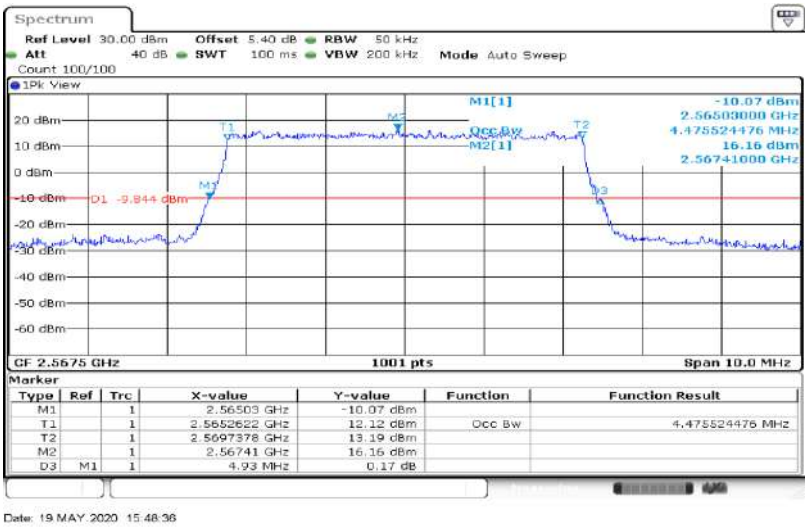

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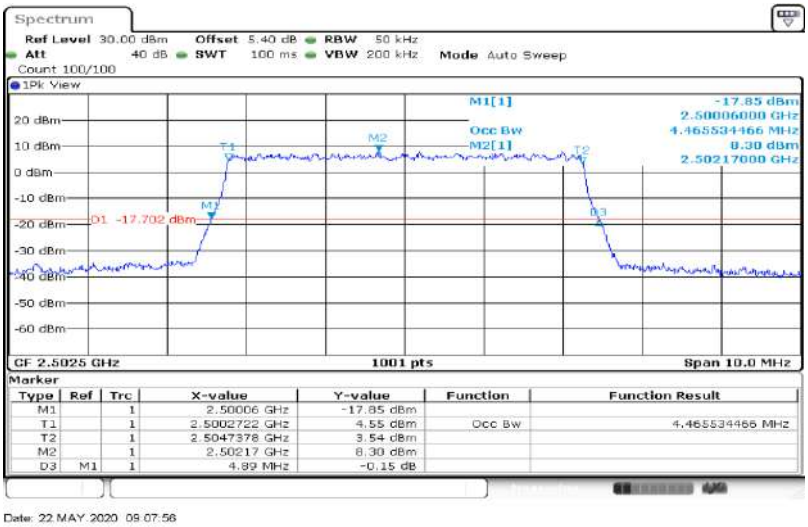

Band7-5MHz-64QAM-21100-25RB#0-4.476

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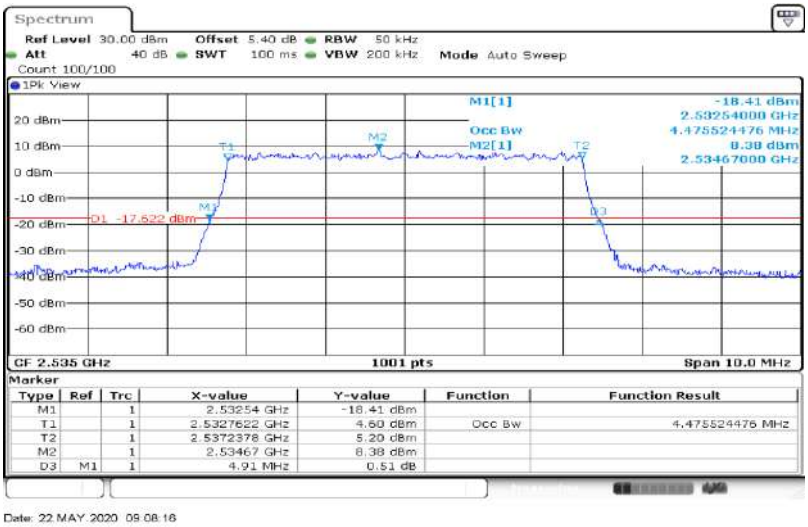

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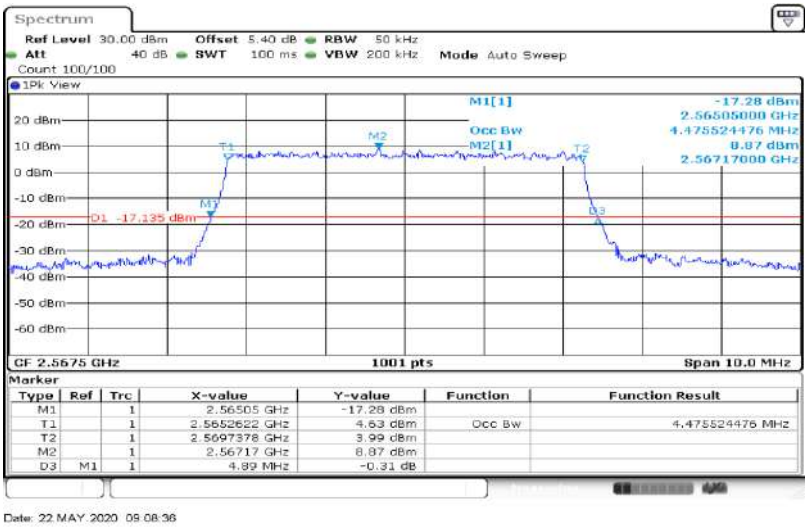

Band7-5MHz-16QAM-20775-25RB#0-4.486

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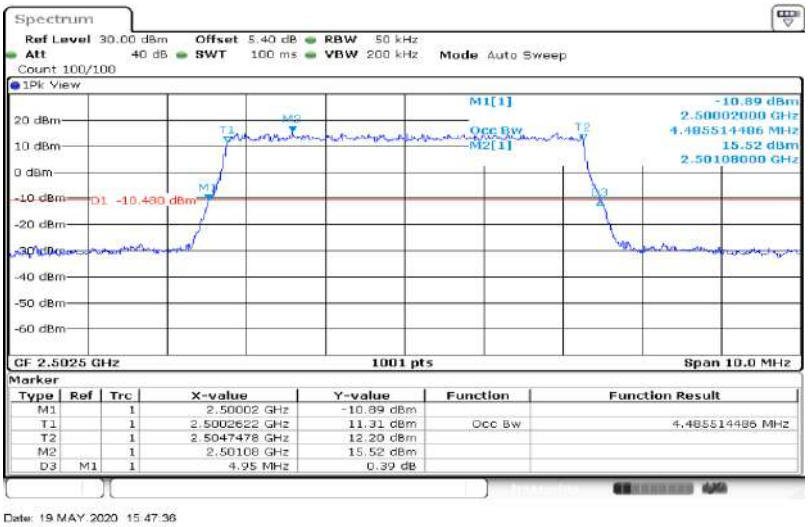

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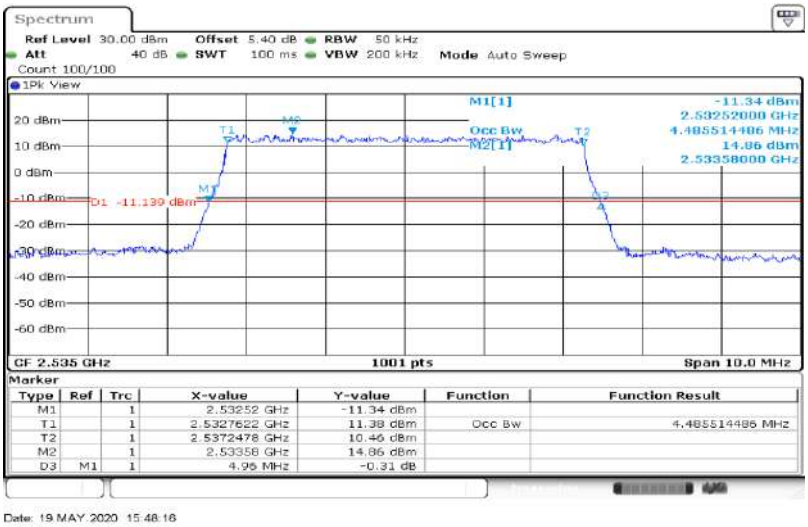

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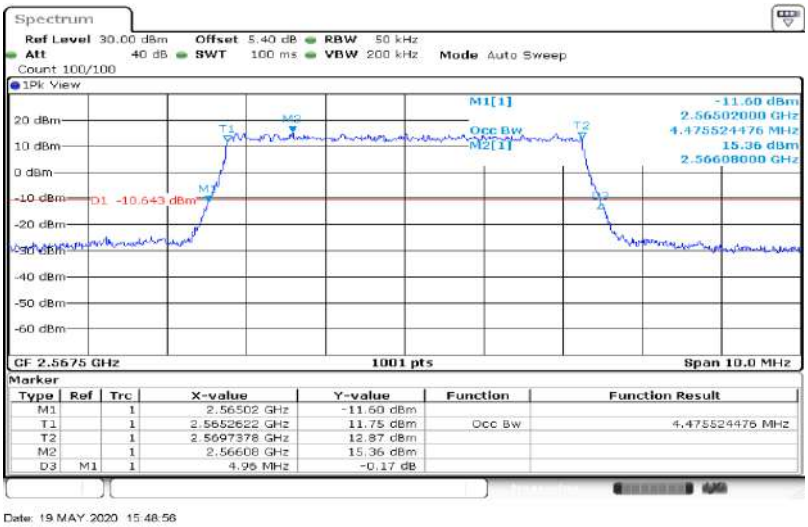

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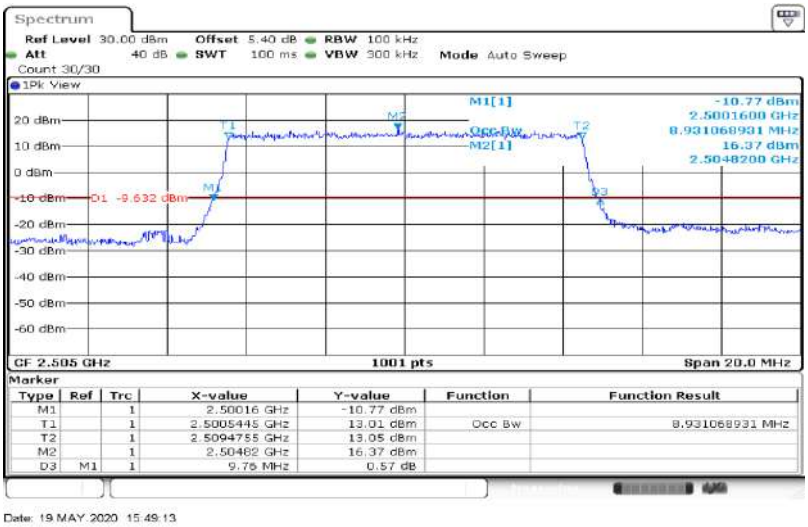

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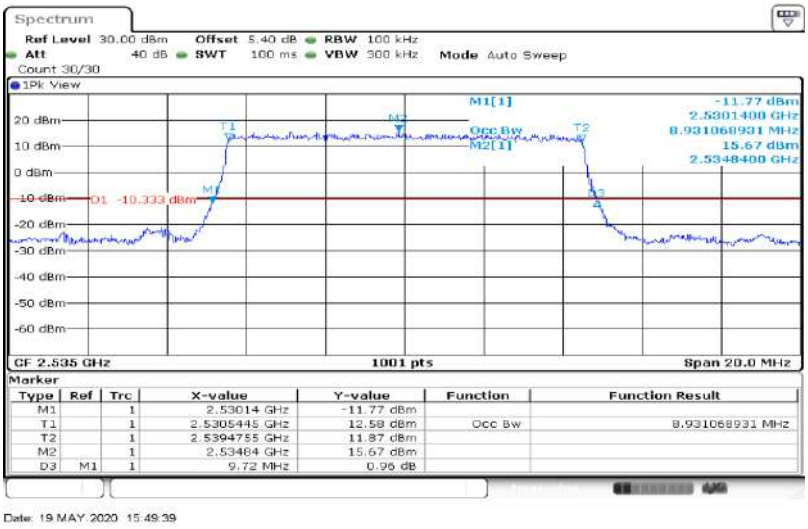

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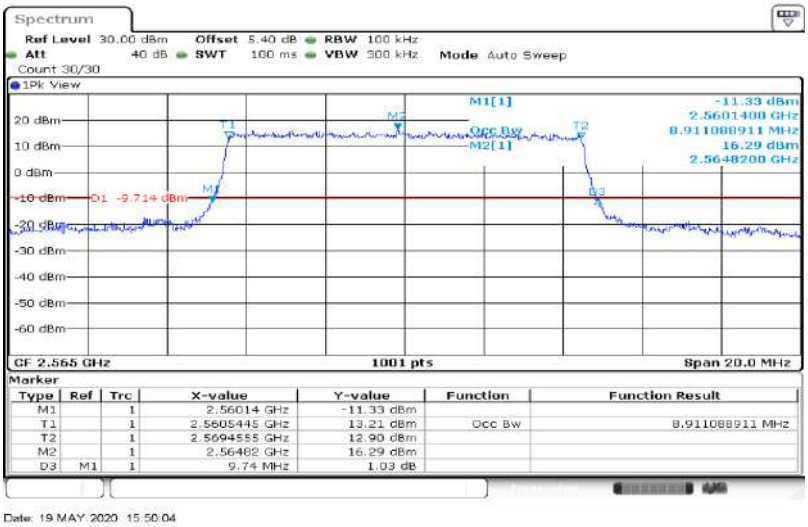

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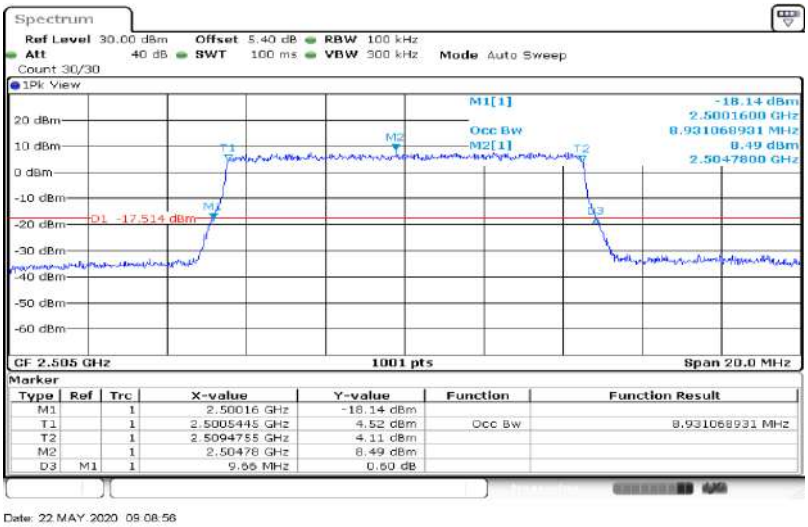

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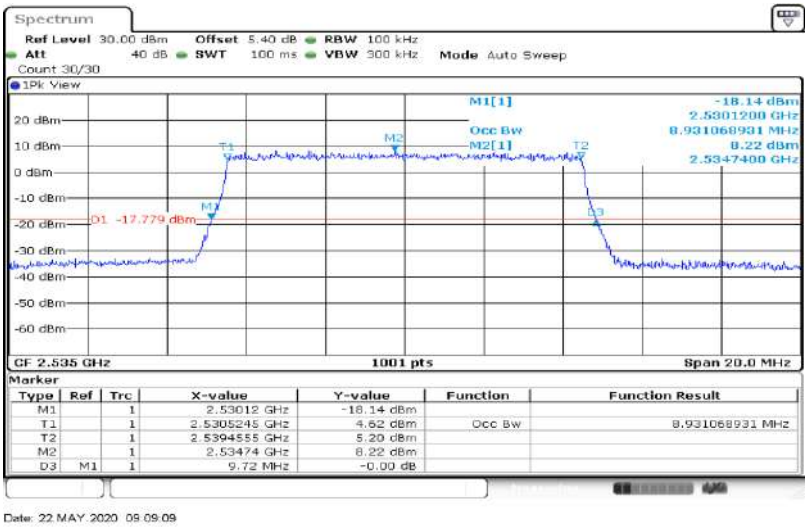

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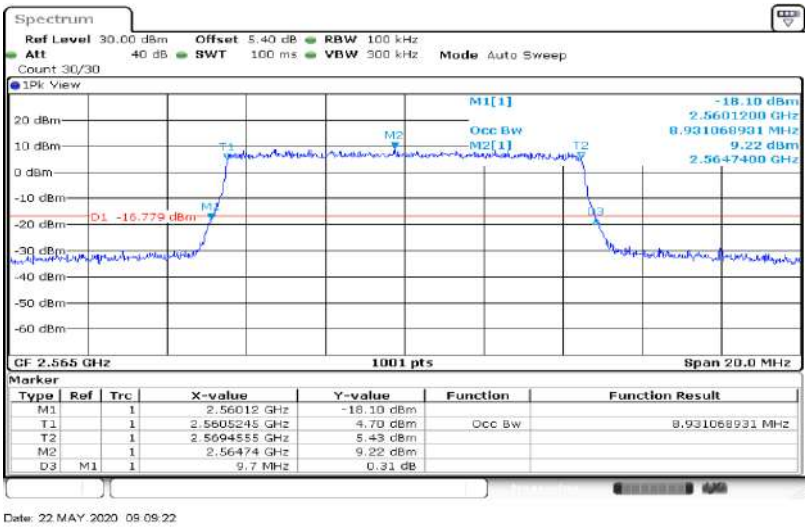

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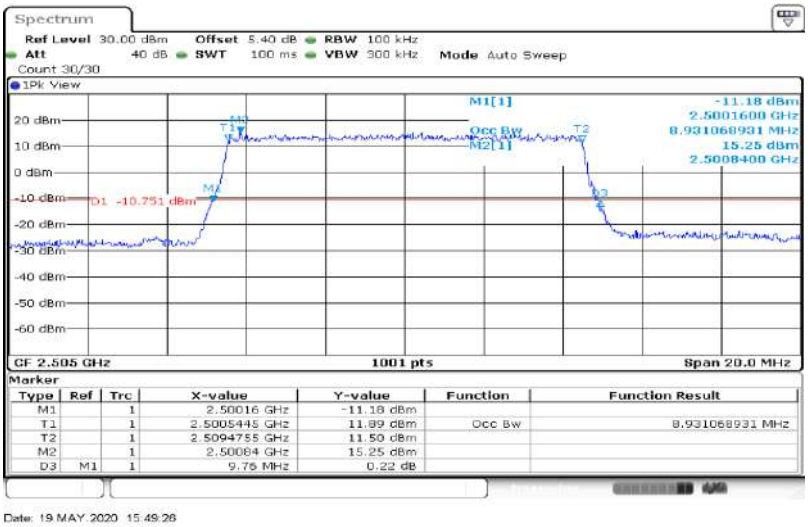

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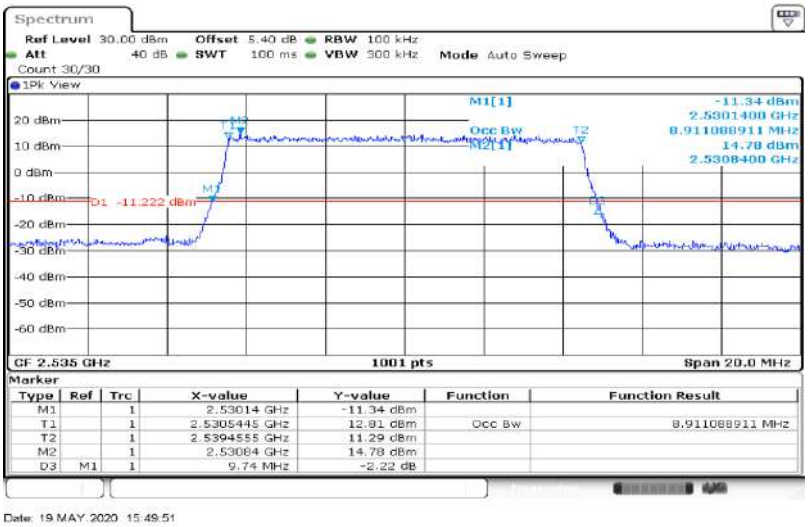

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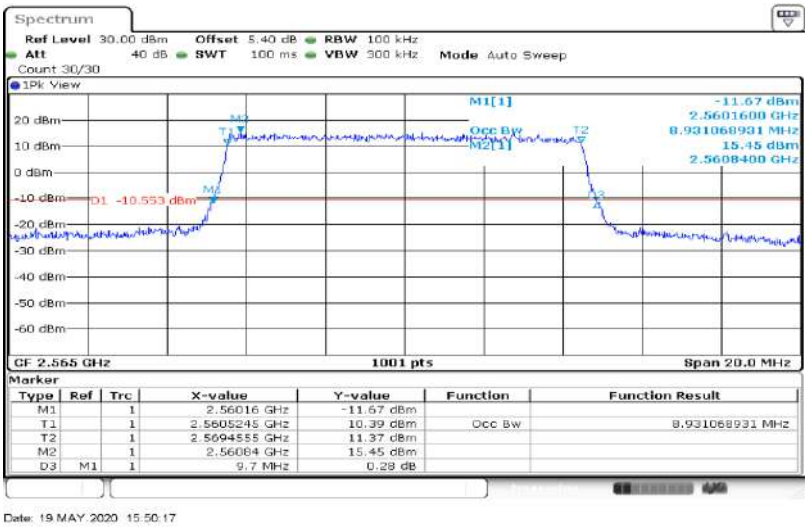

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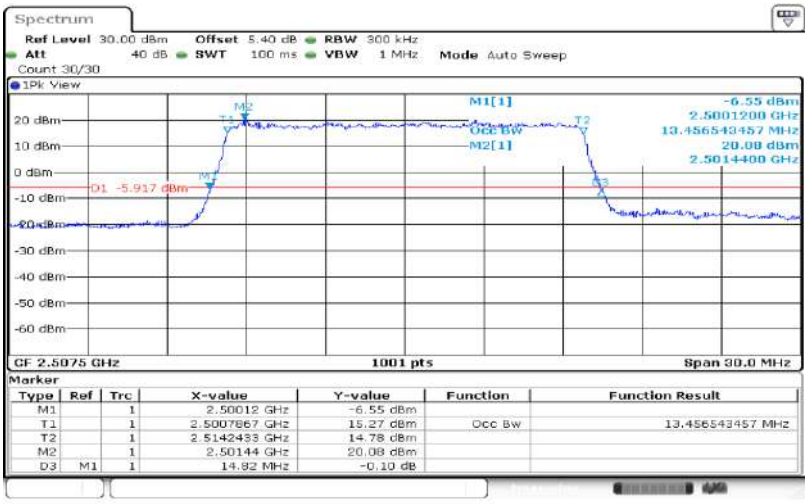

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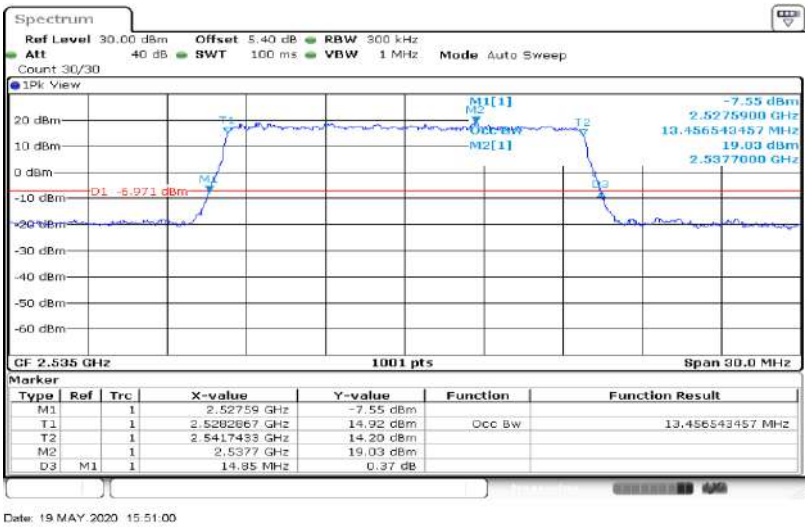

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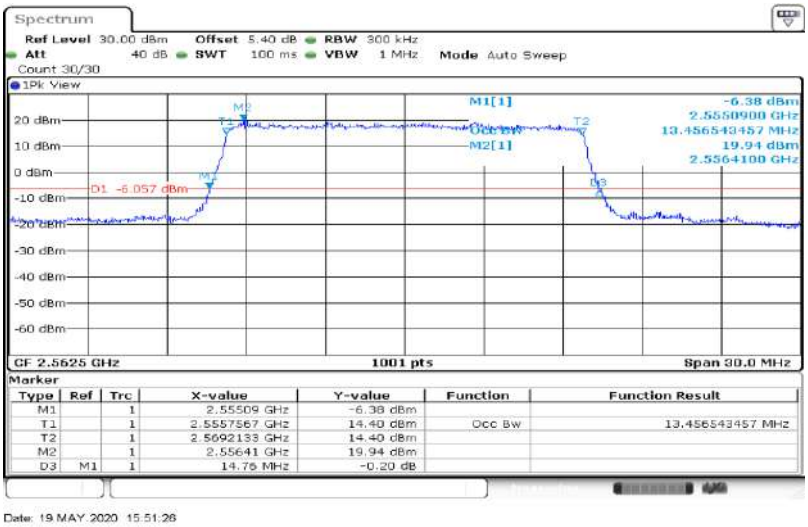

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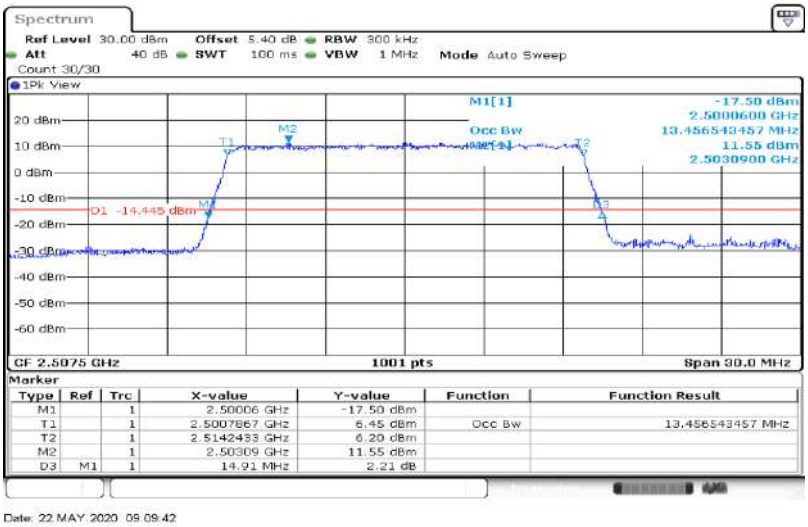

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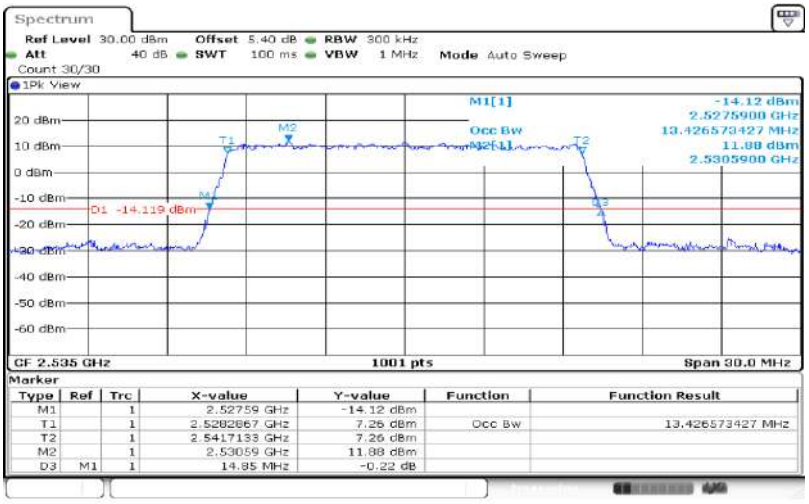

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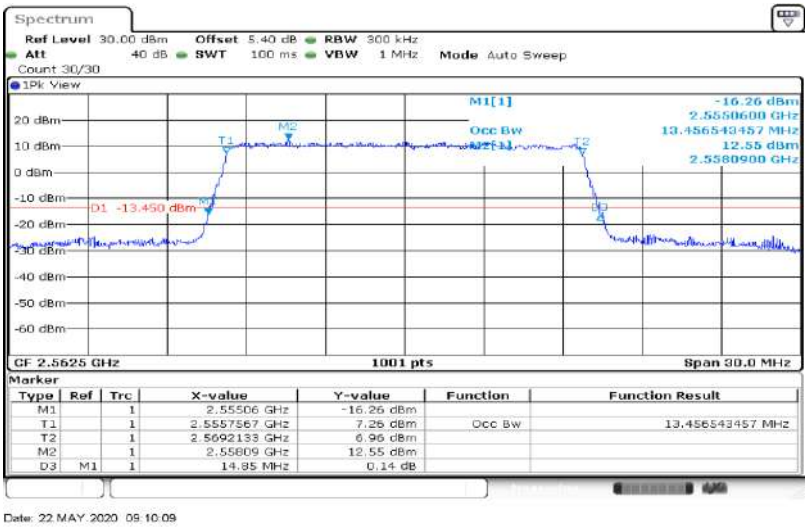

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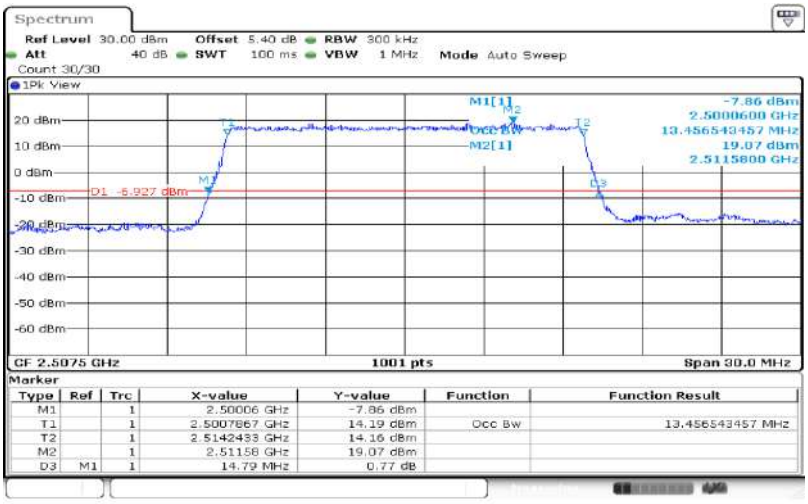

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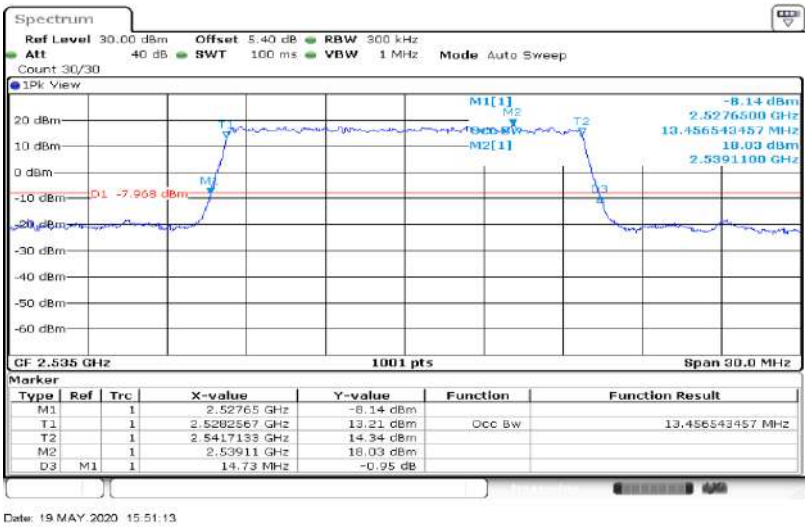

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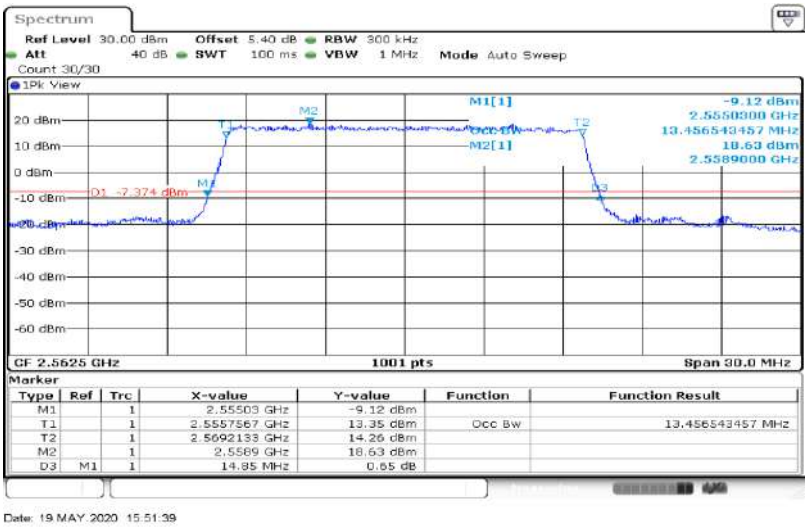

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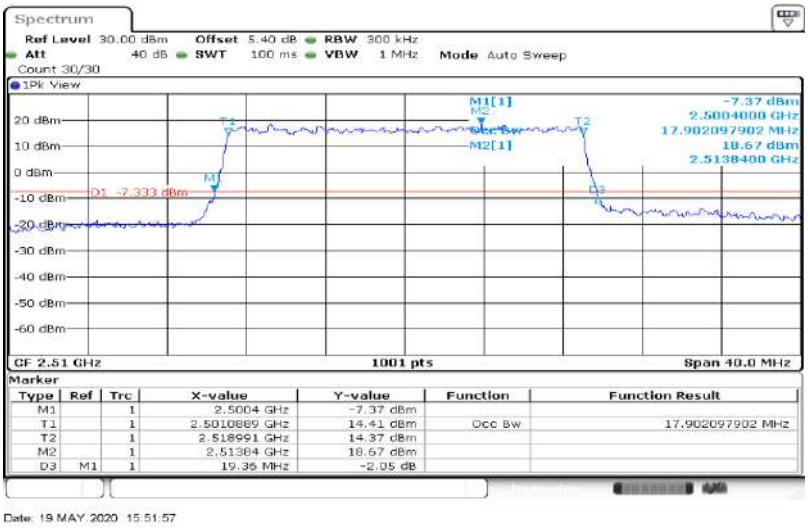

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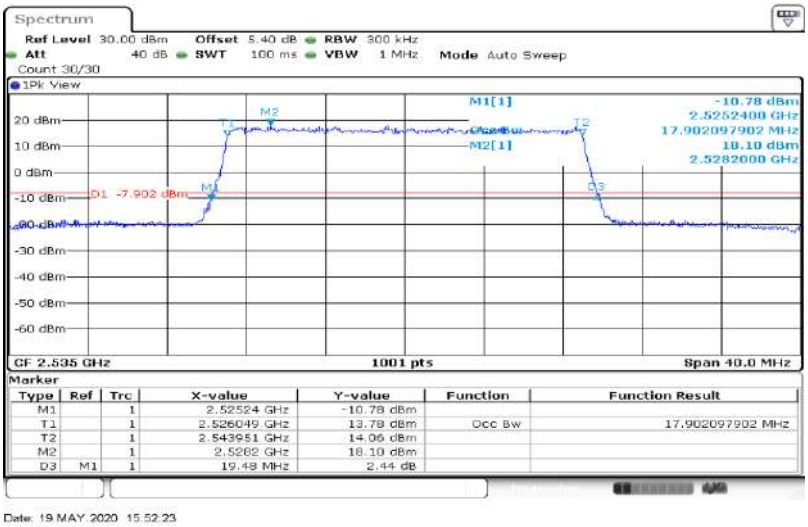
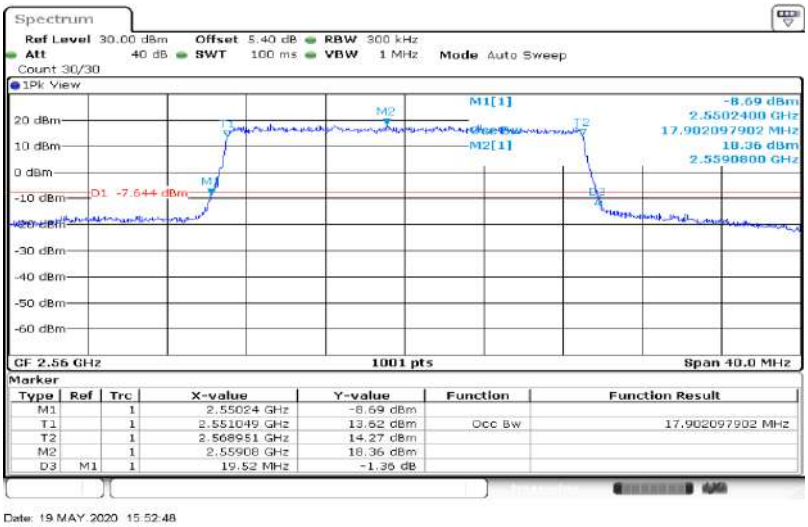


Band7-20MHz-QPSK-21350-100RB#0-17.902



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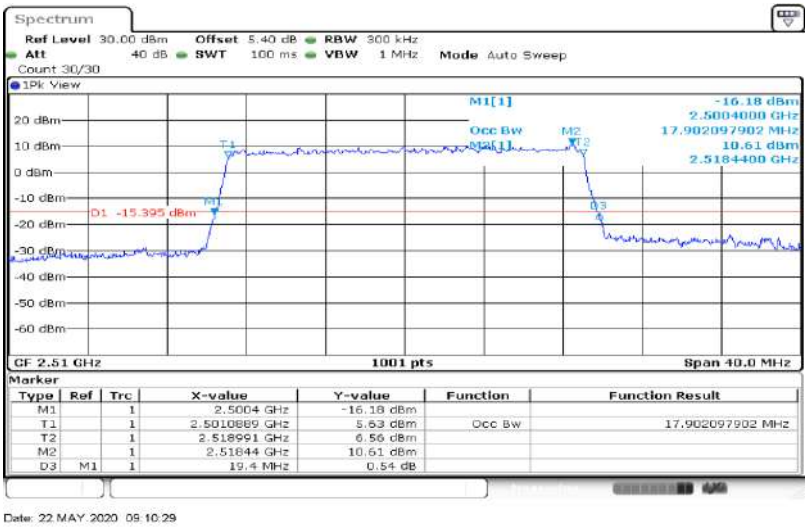

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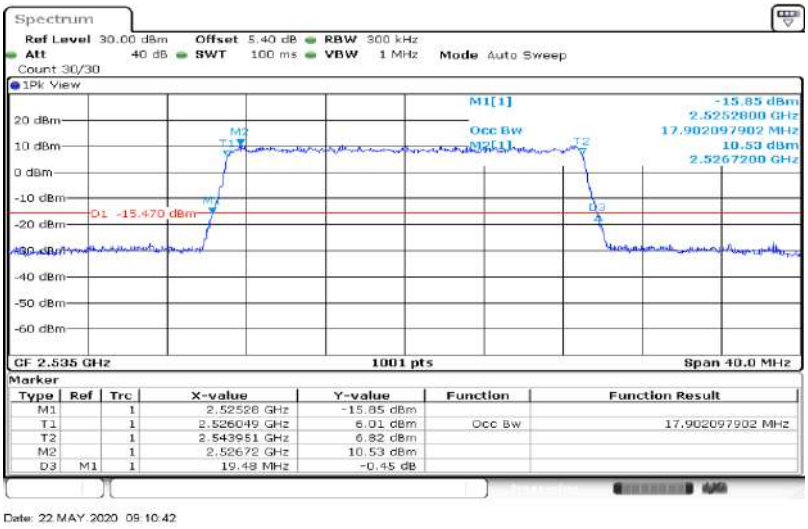

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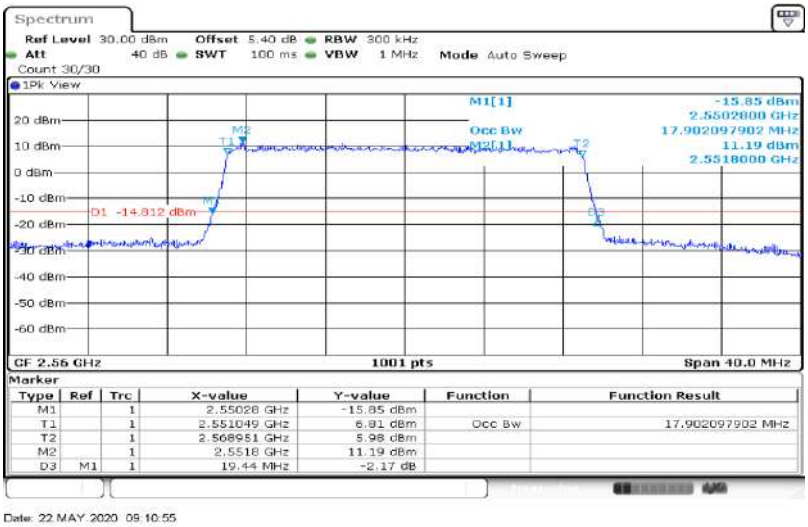

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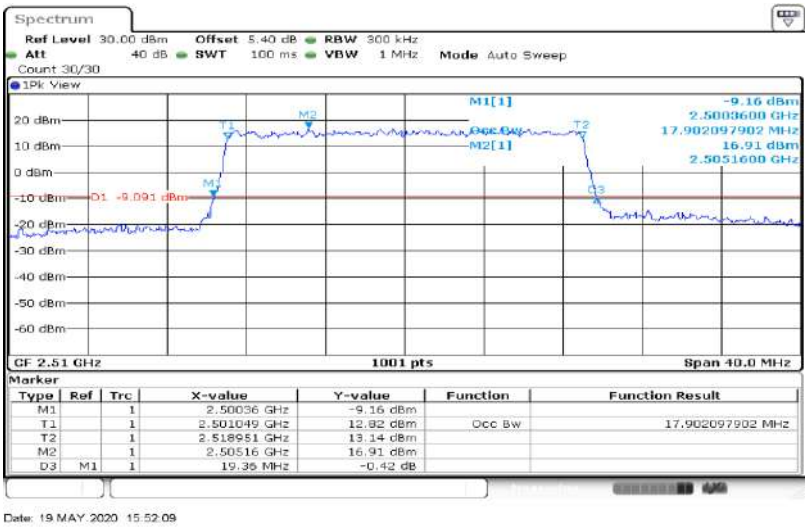

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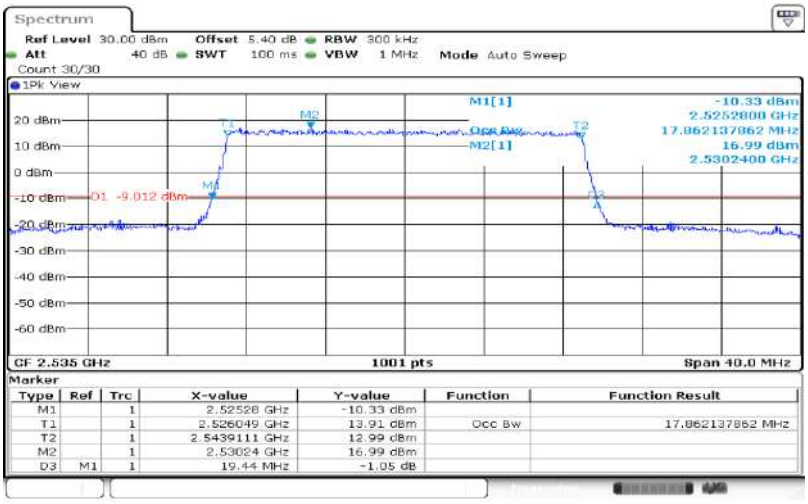

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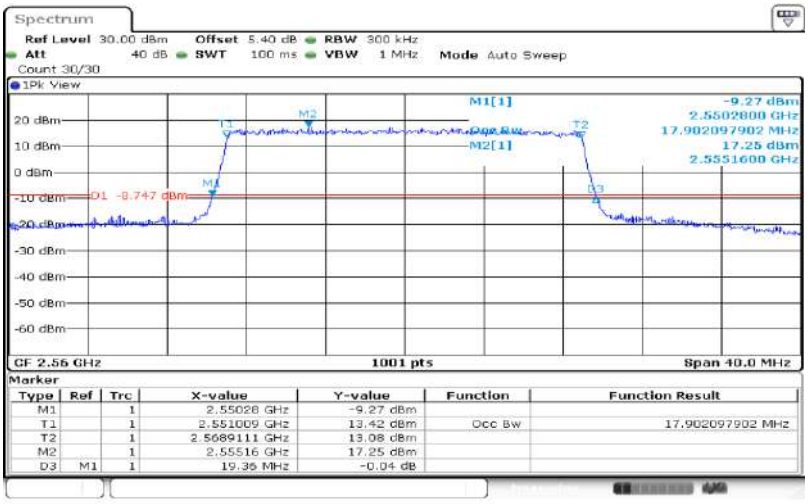
Band7-20MHz-16QAM-21350-100RB#0-17.902



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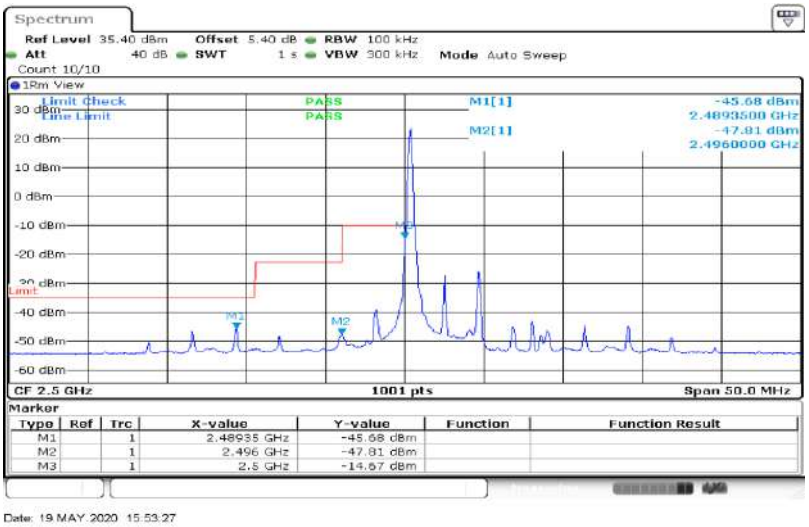
5. Band Edge Compliance

5.1. Test Plots

Band7-5MHz-QPSK-20775-1RB#0



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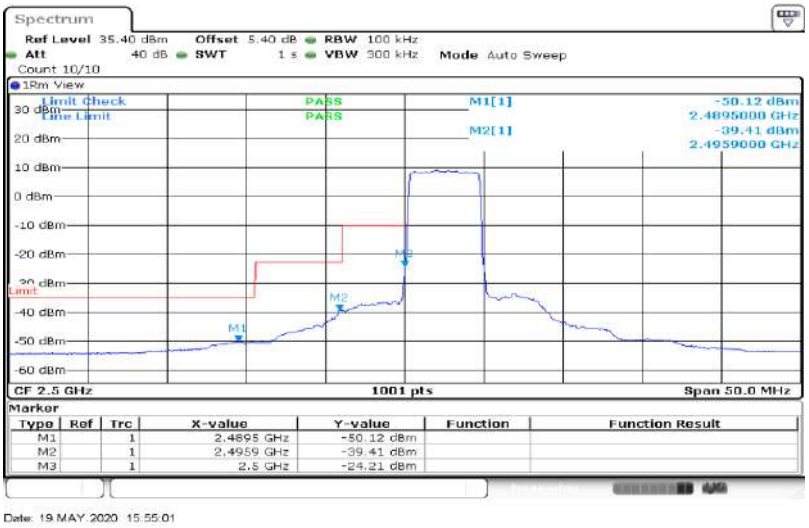

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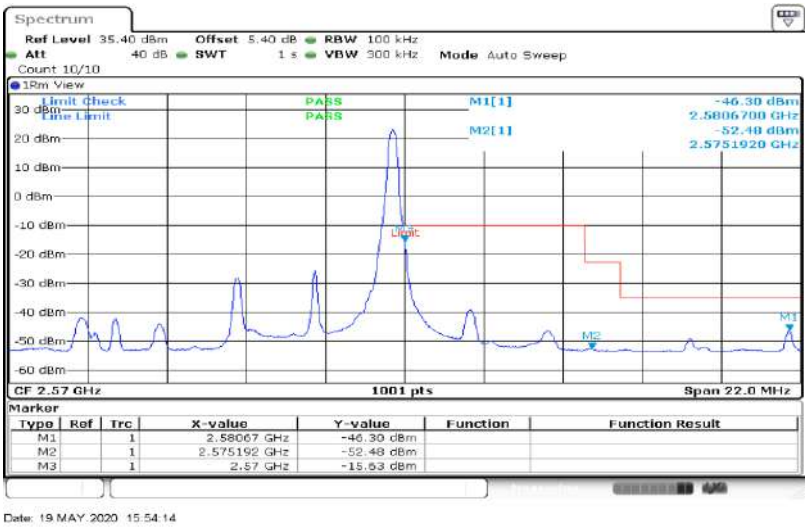

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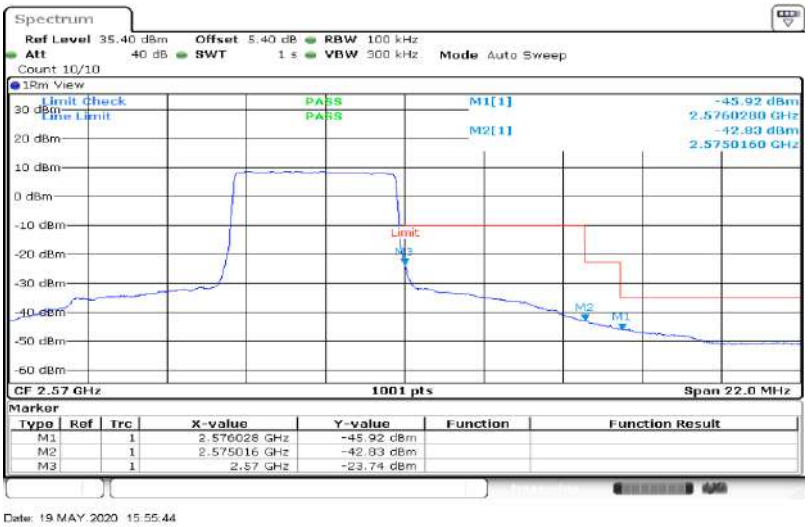

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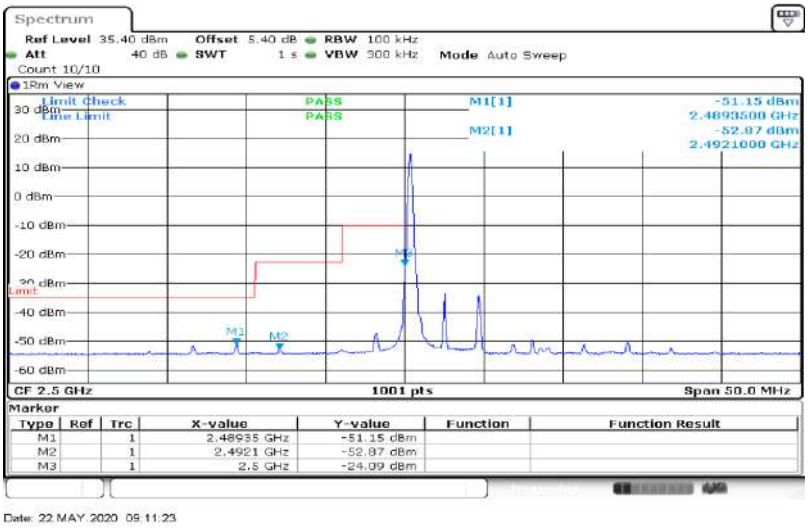

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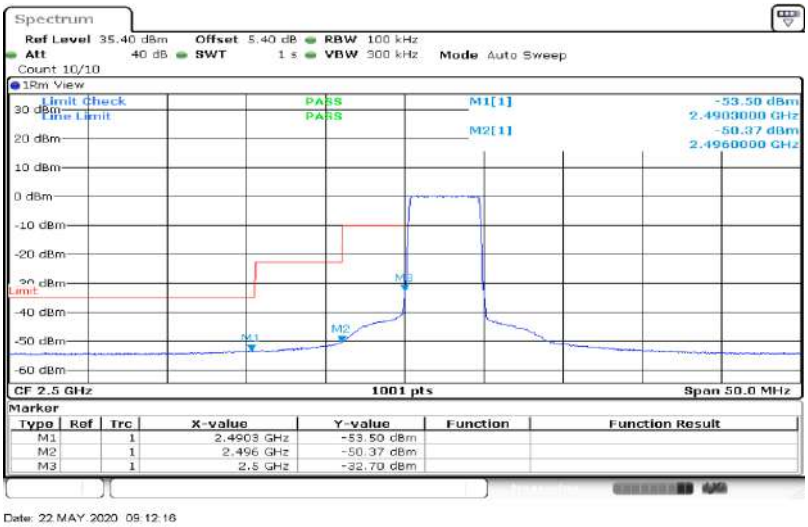

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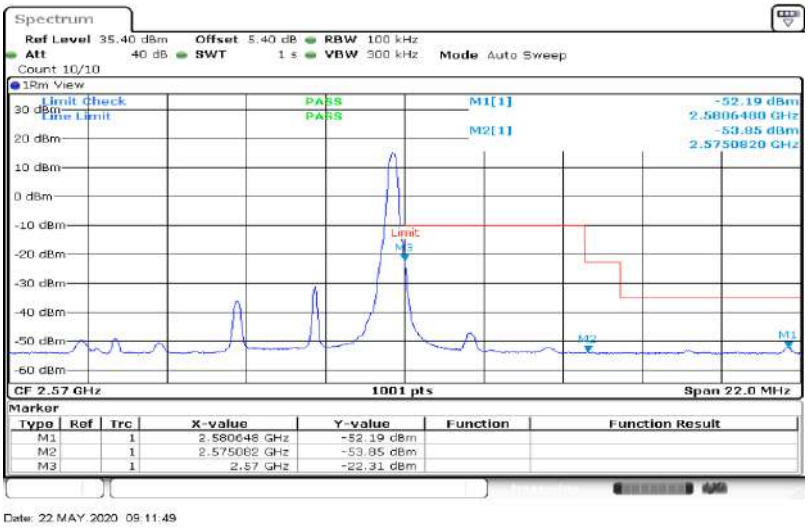

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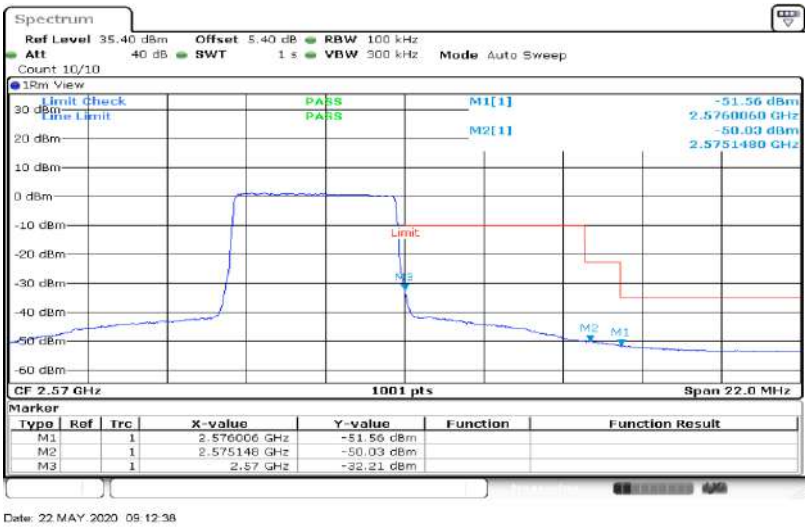

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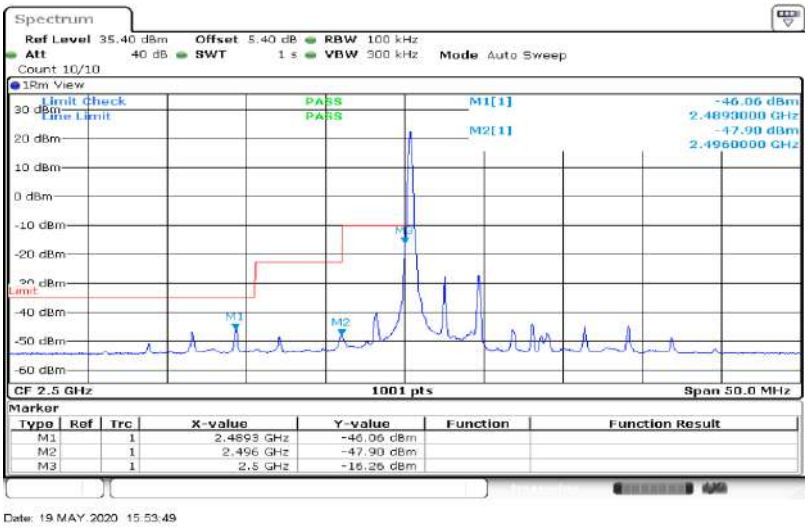

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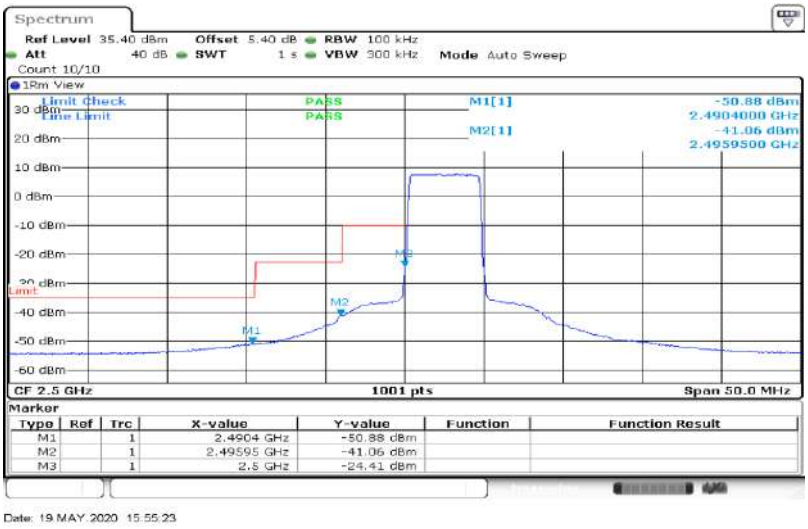

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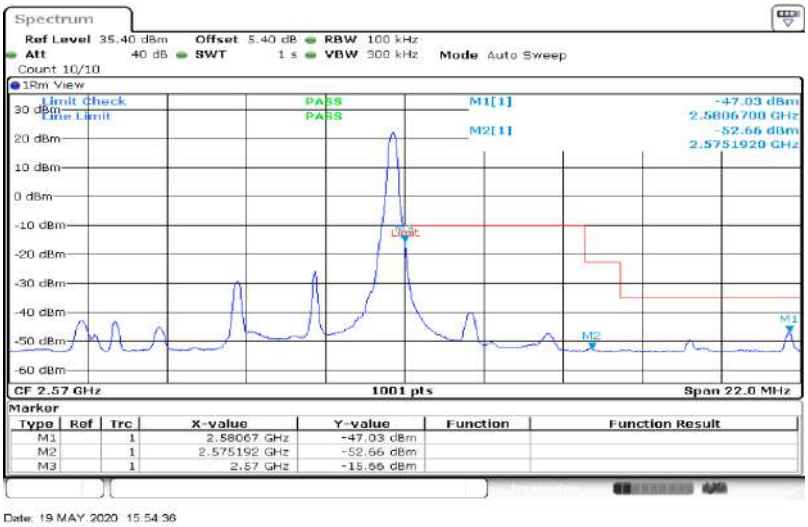

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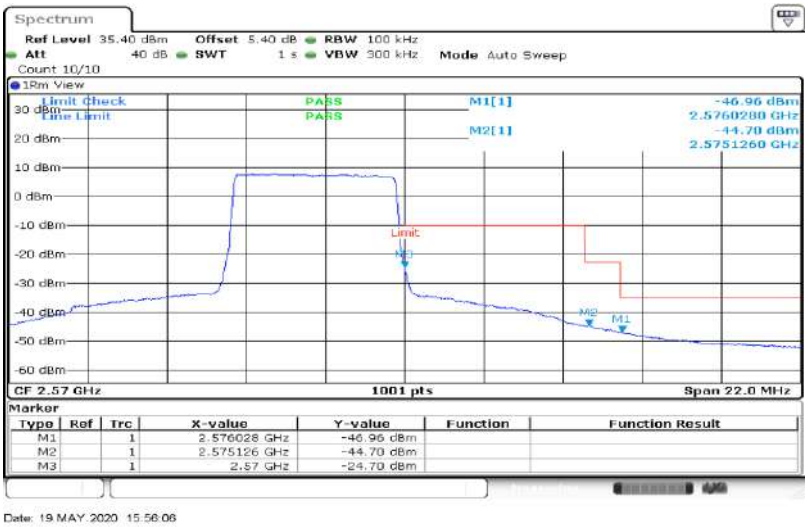

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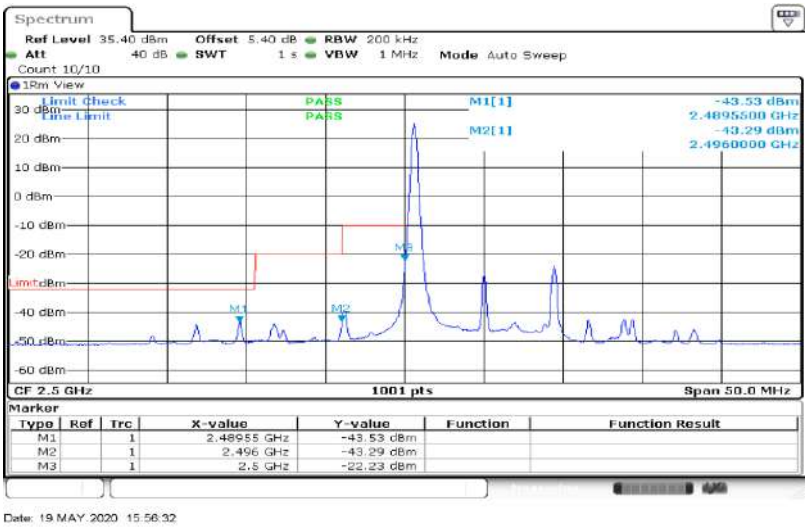

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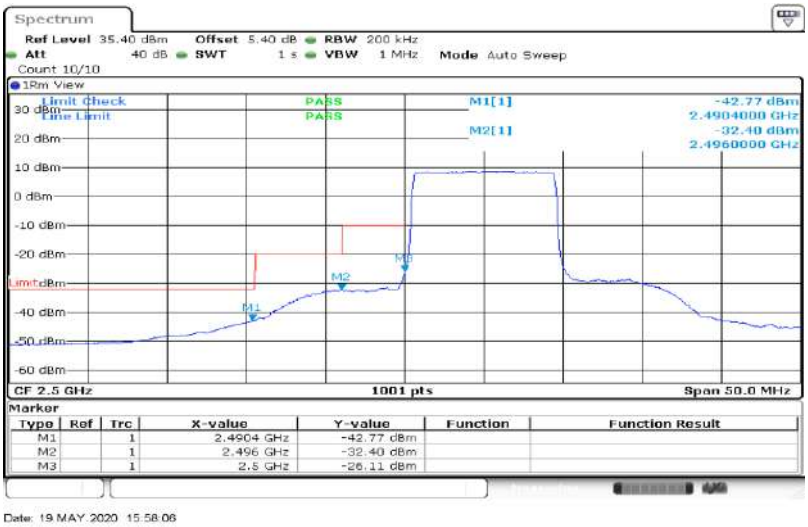

Band7-10MHz-QPSK-21400-1RB#49

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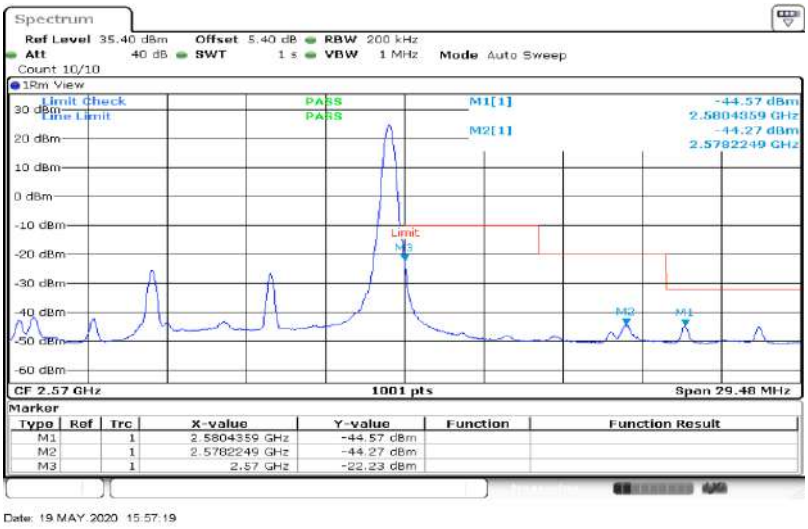

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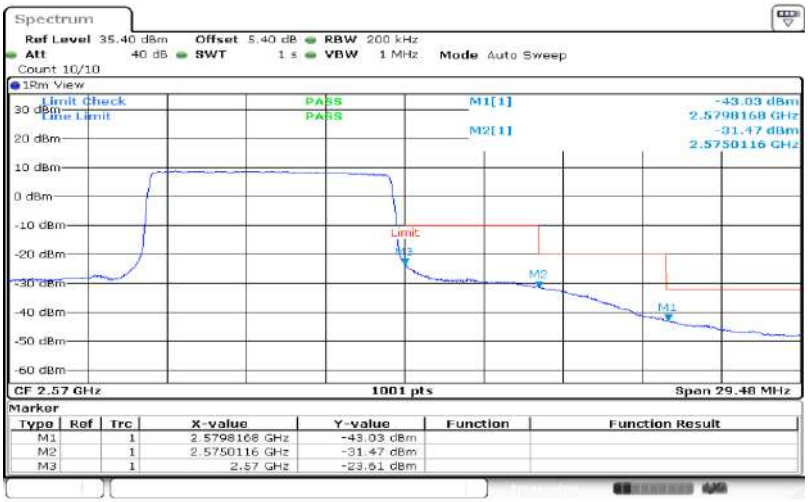

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Band7-10MHz-64QAM-20800-1RB#0

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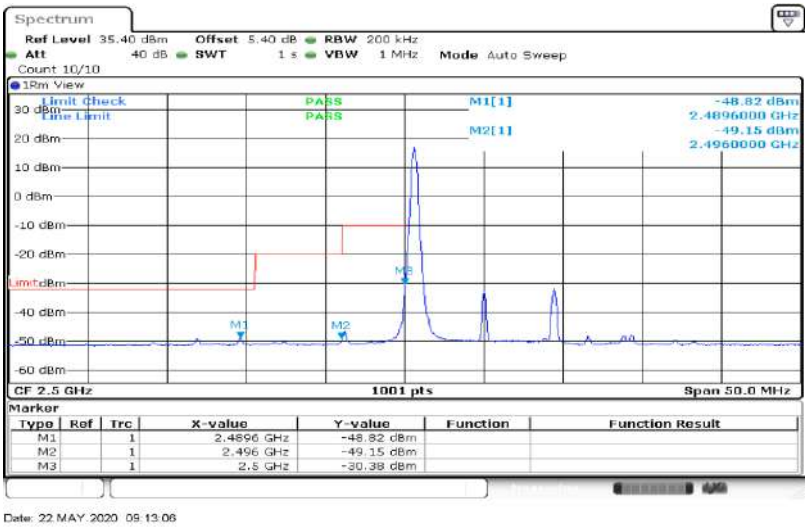

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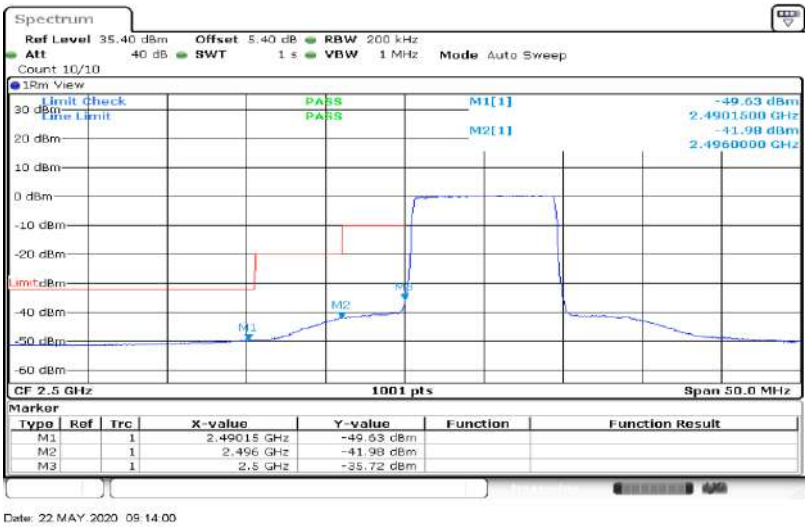

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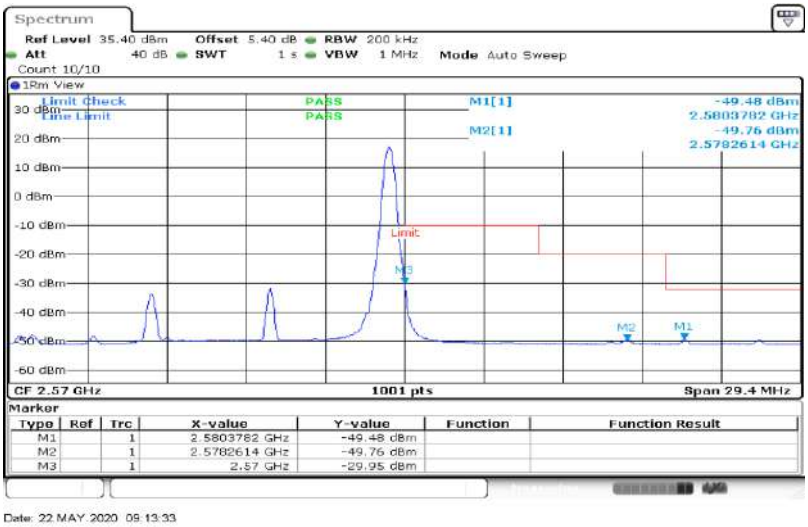

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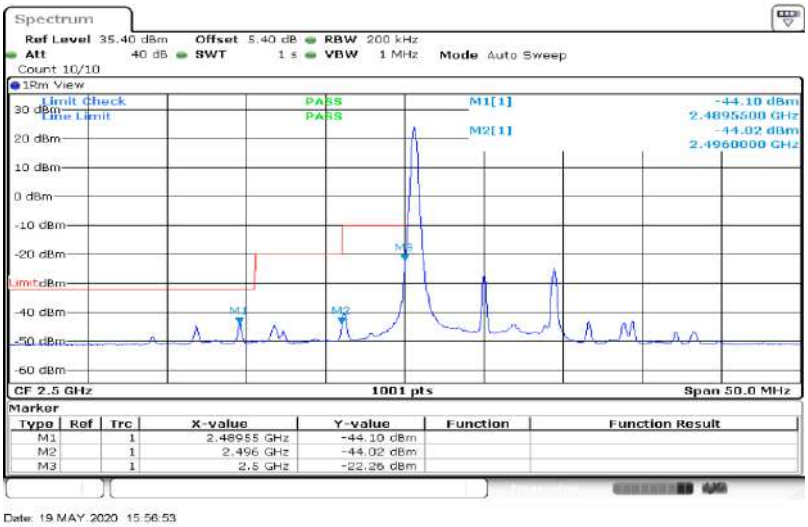

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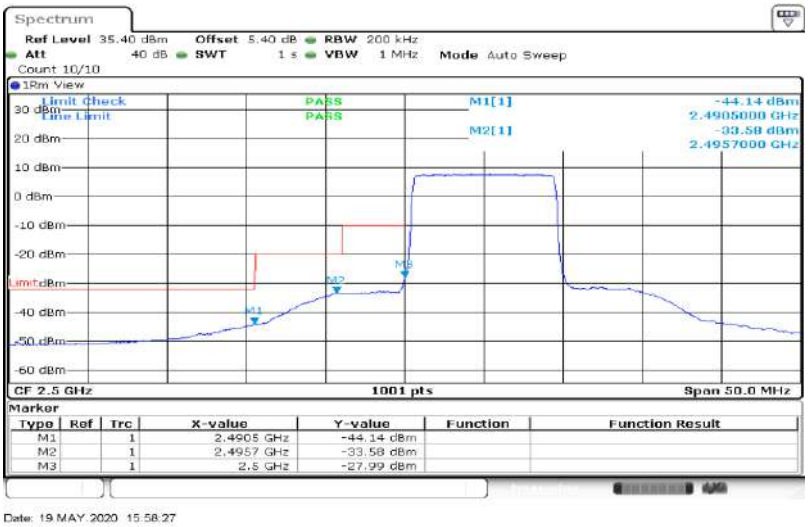

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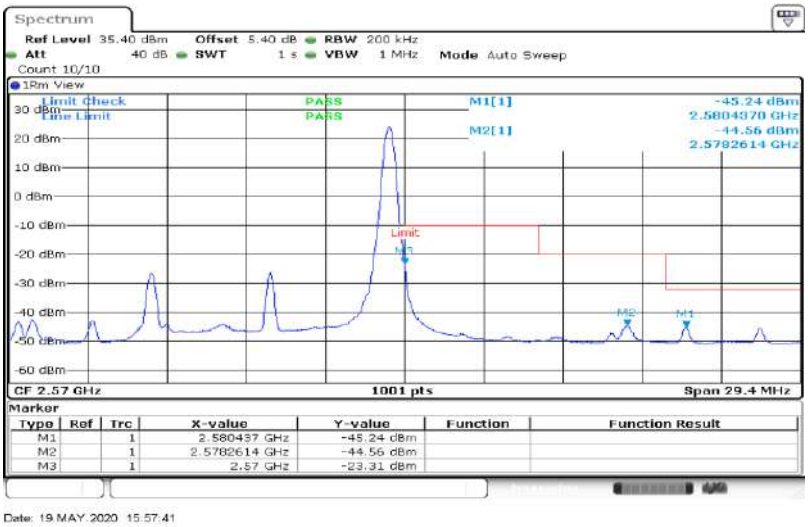

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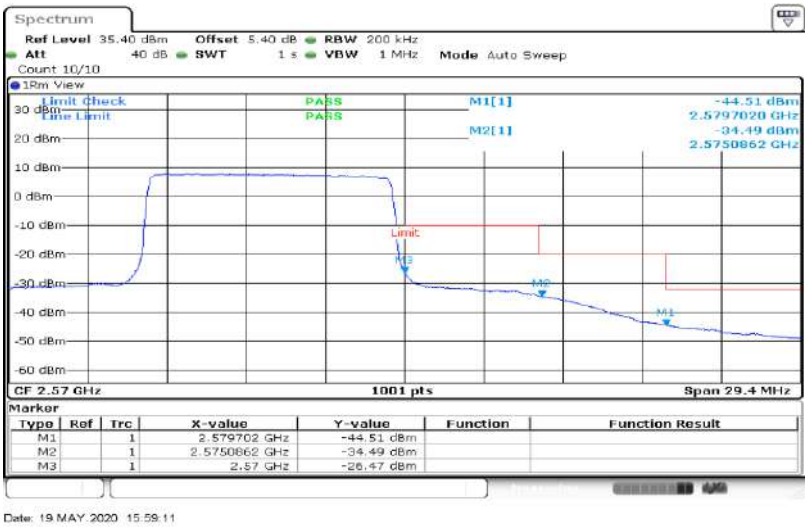

Band7-15MHz-QPSK-20825-1RB#0

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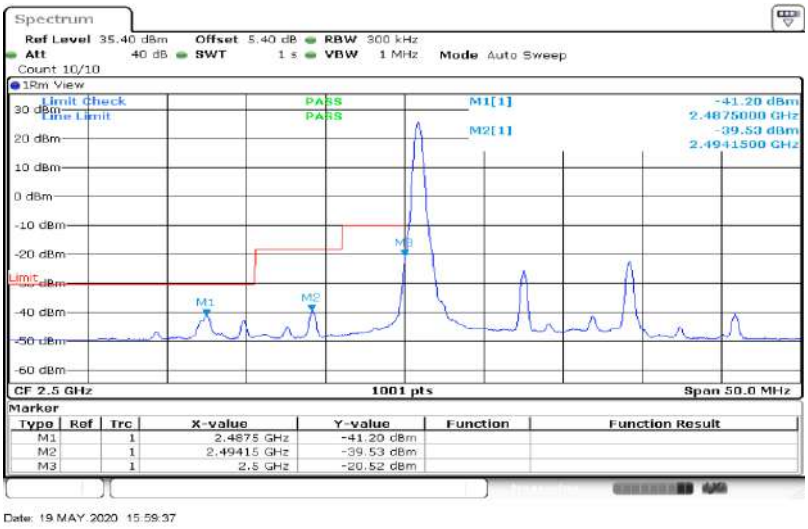

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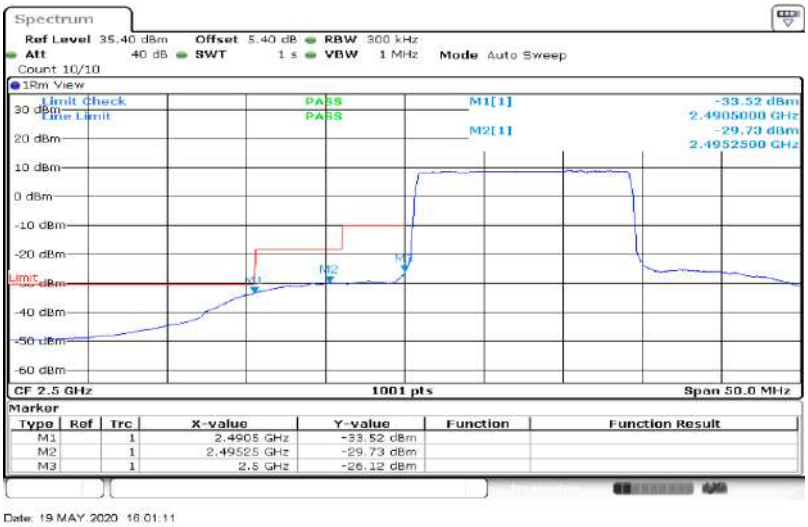

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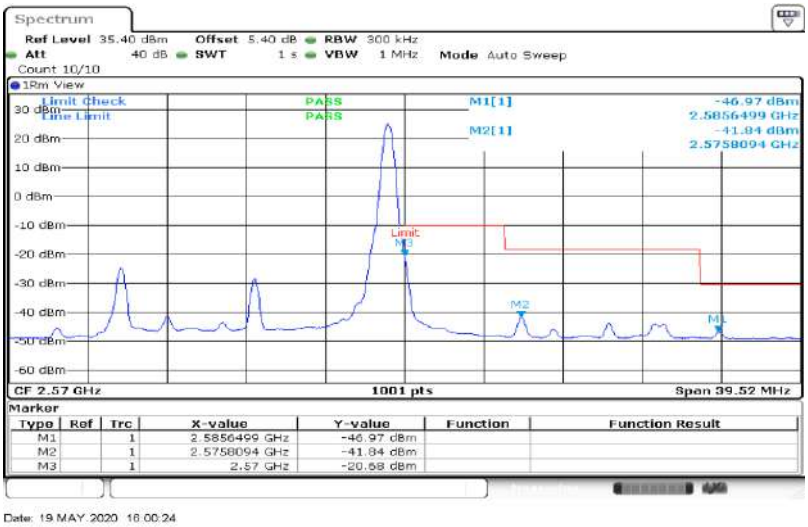

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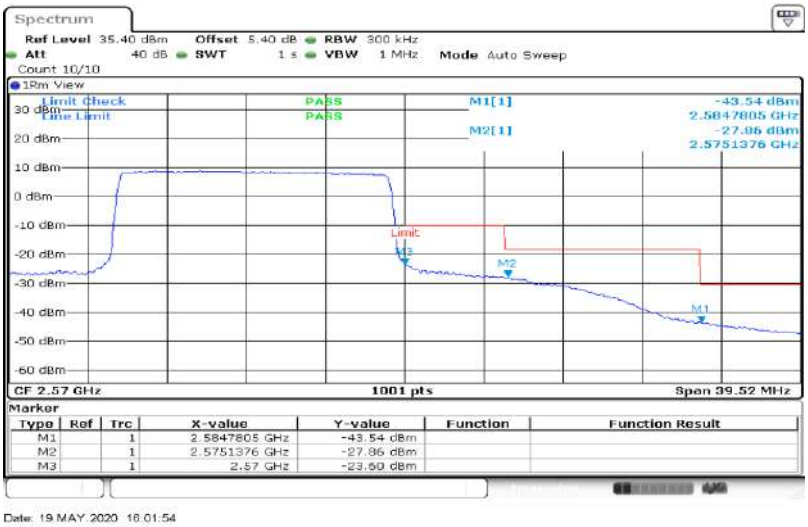

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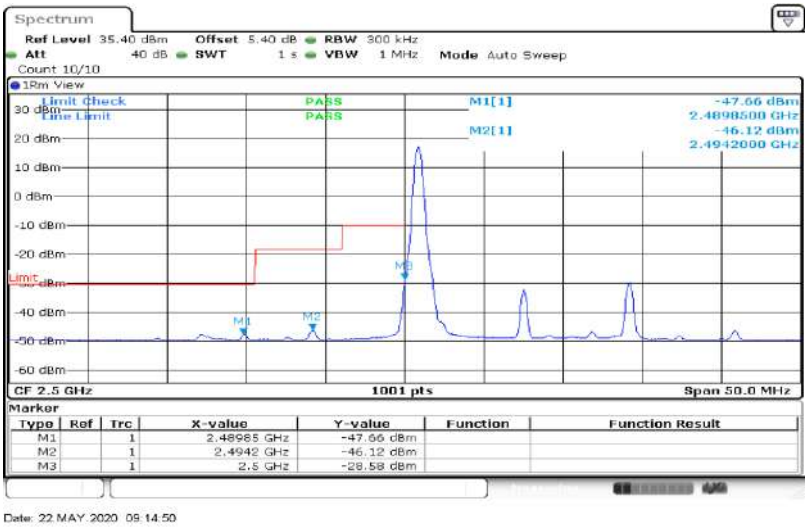

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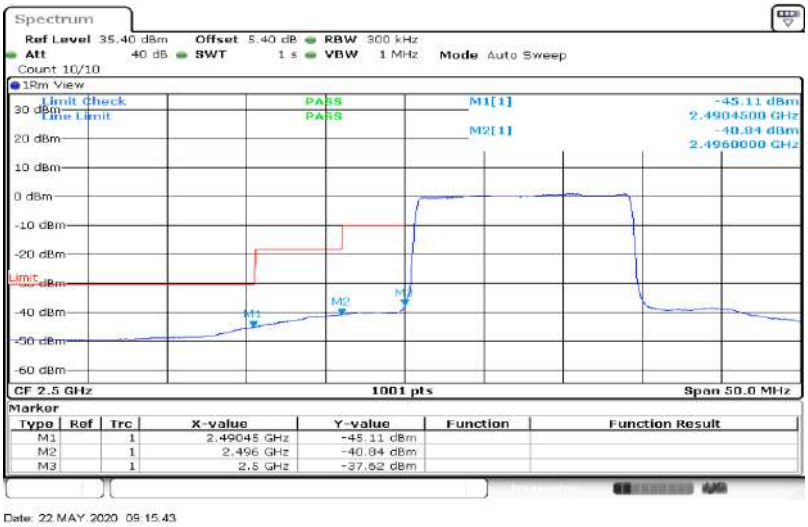

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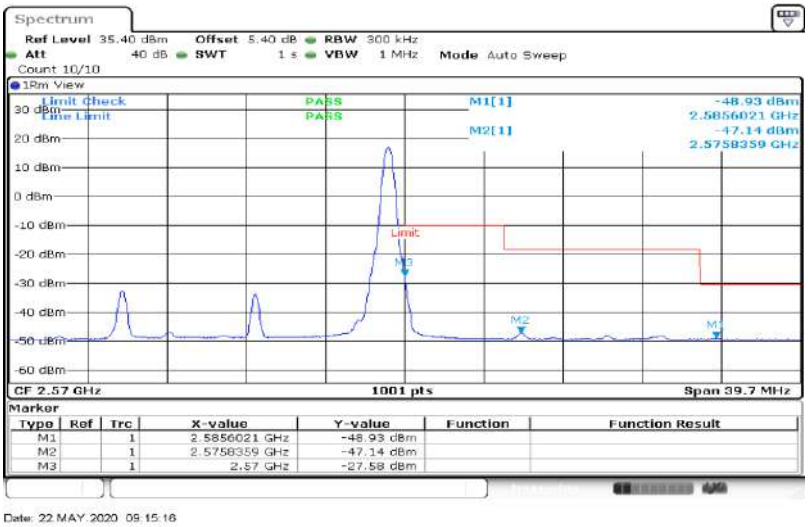

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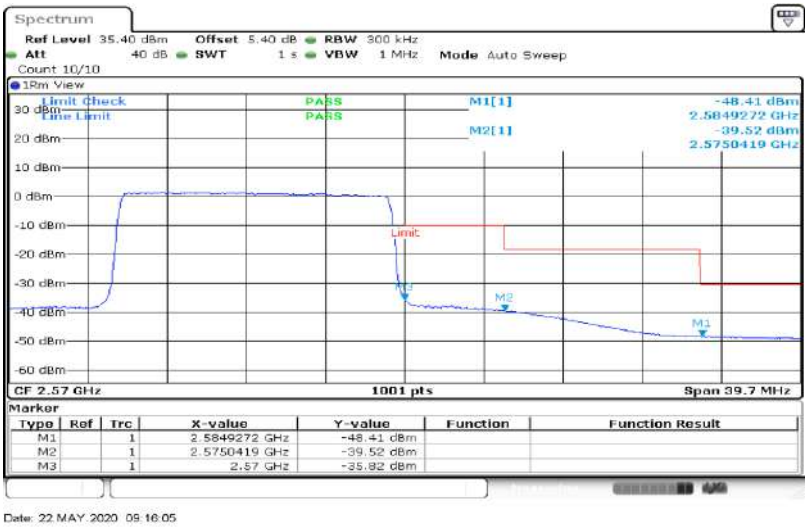

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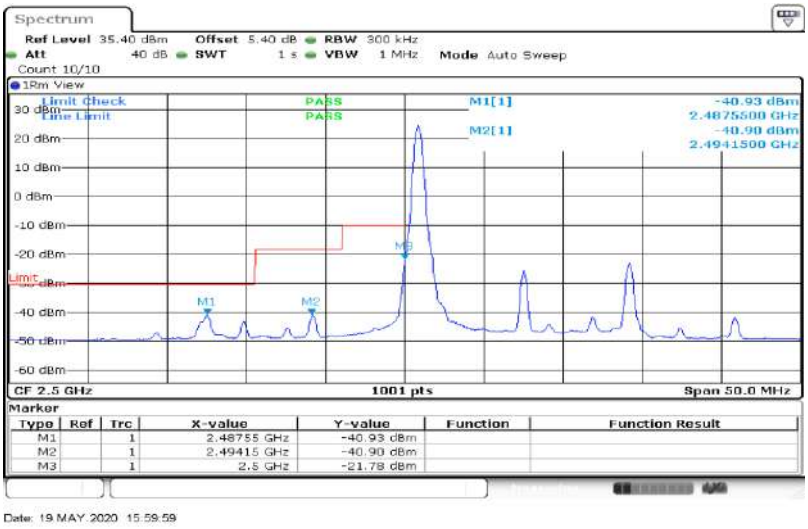

Band7-15MHz-16QAM-20825-75RB#0

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

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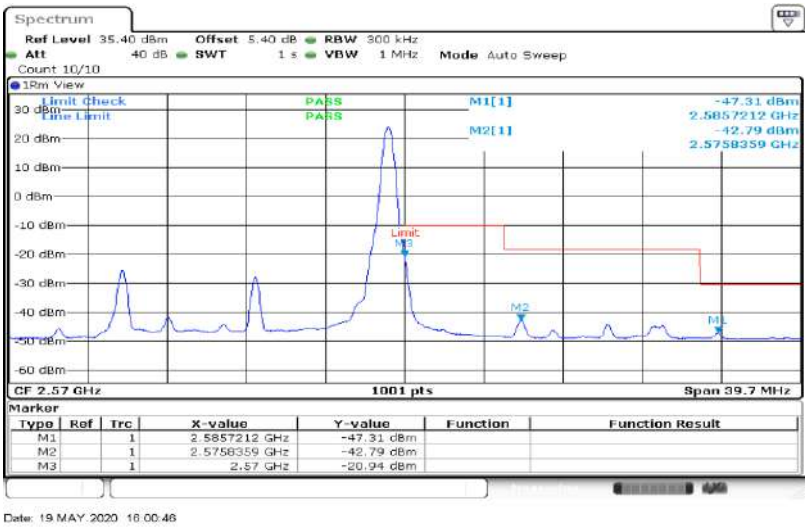

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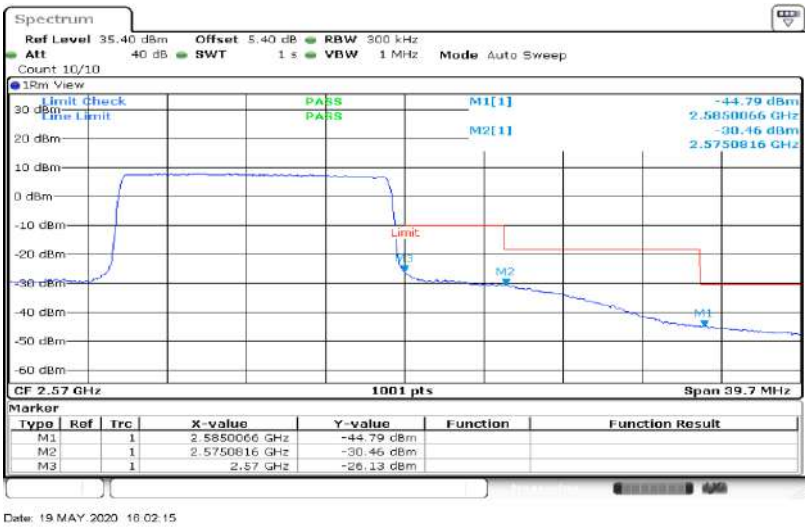
Band7-15MHz-16QAM-21375-75RB#0



Date: 19 MAY 2020 16:02:15

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

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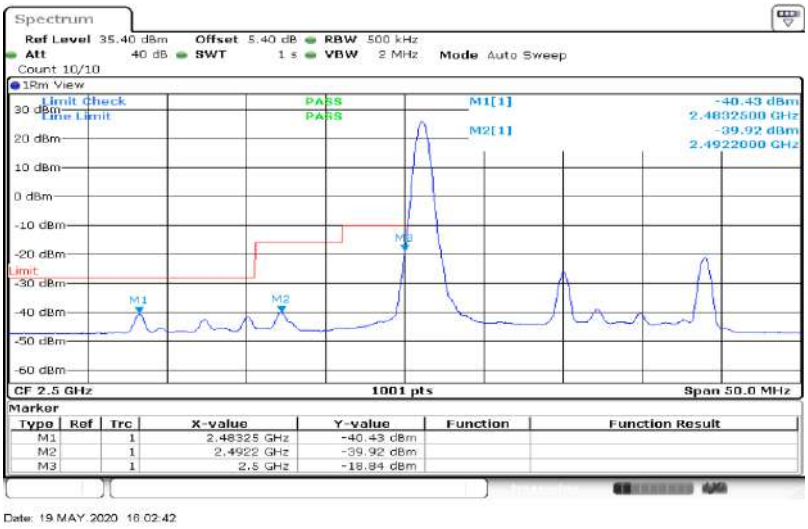
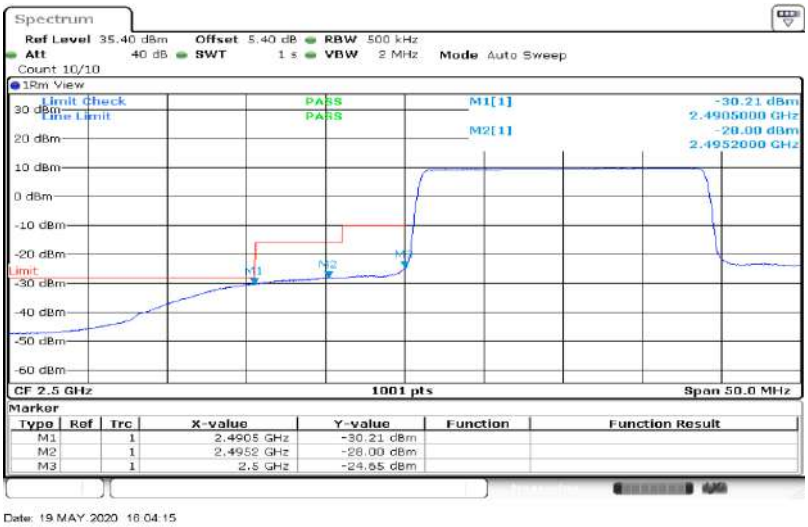


Band7-20MHz-QPSK-20850-100RB#0



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

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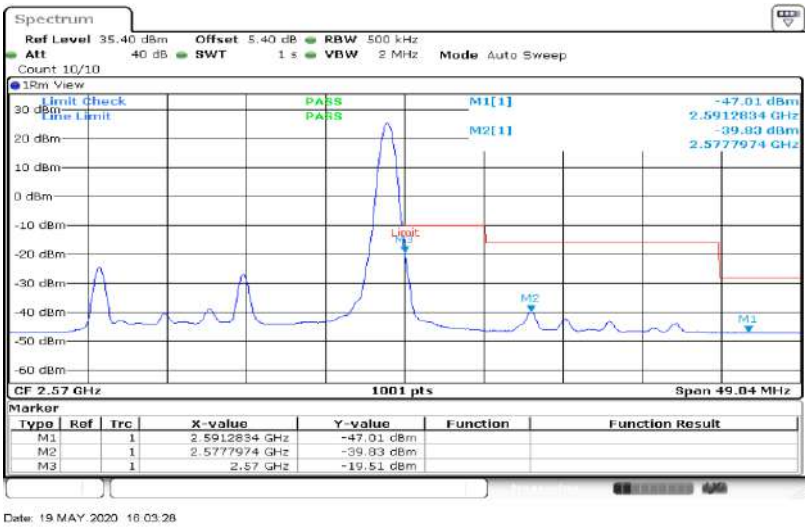

Band7-20MHz-QPSK-21350-100RB#0

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

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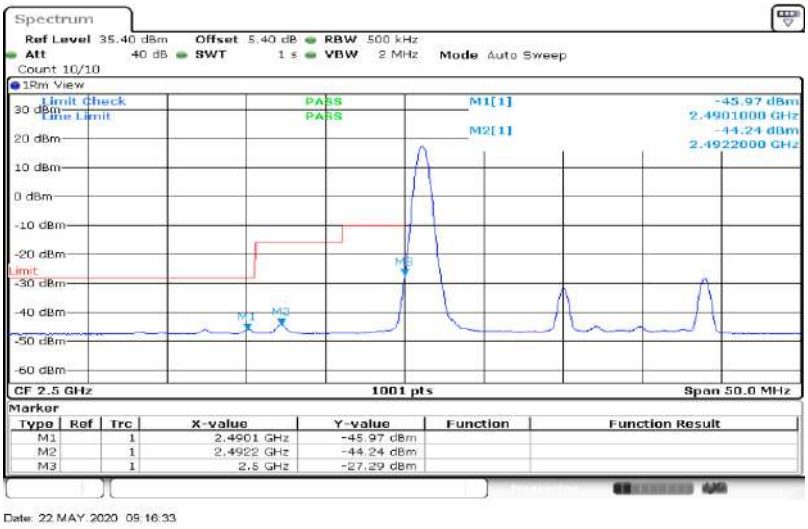
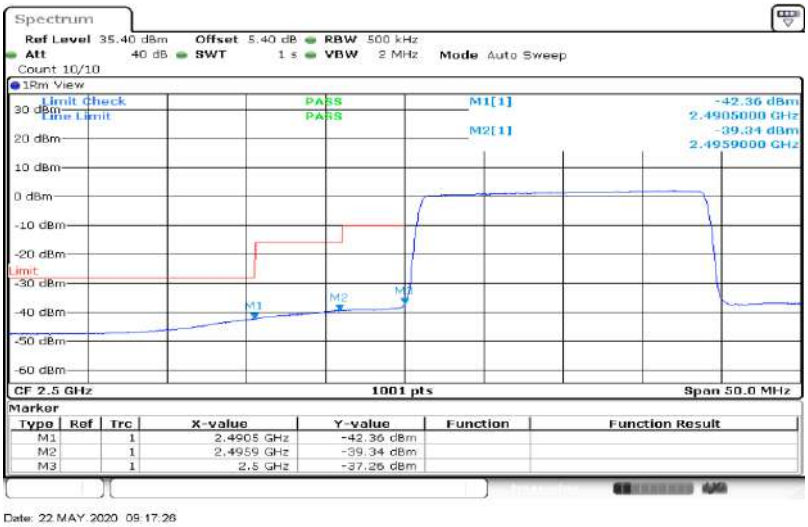


Band7-20MHz-64QAM-20850-100RB#0



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

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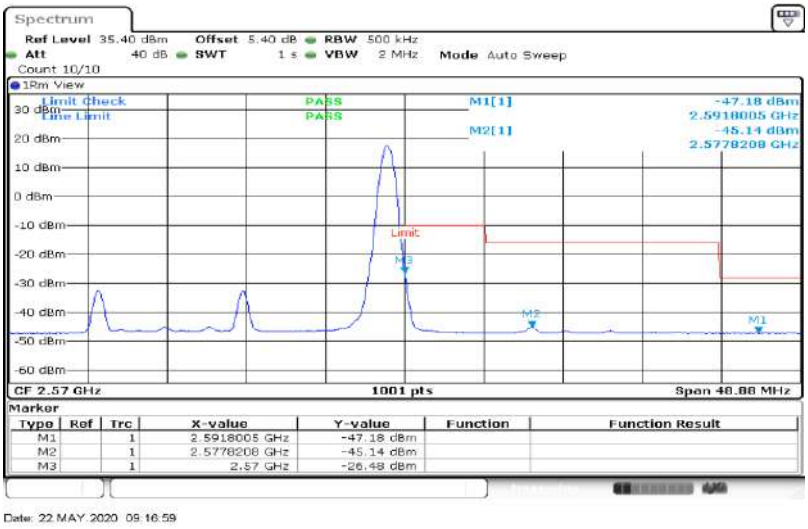
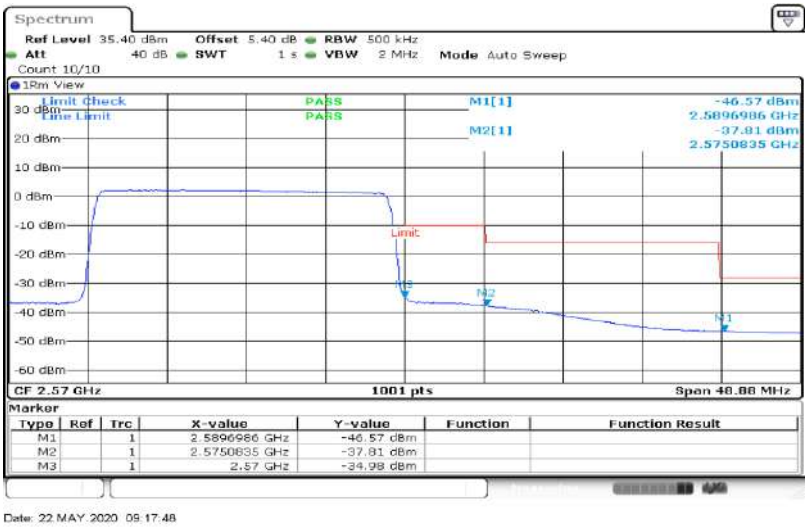


Band7-20MHz-64QAM-21350-100RB#0



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

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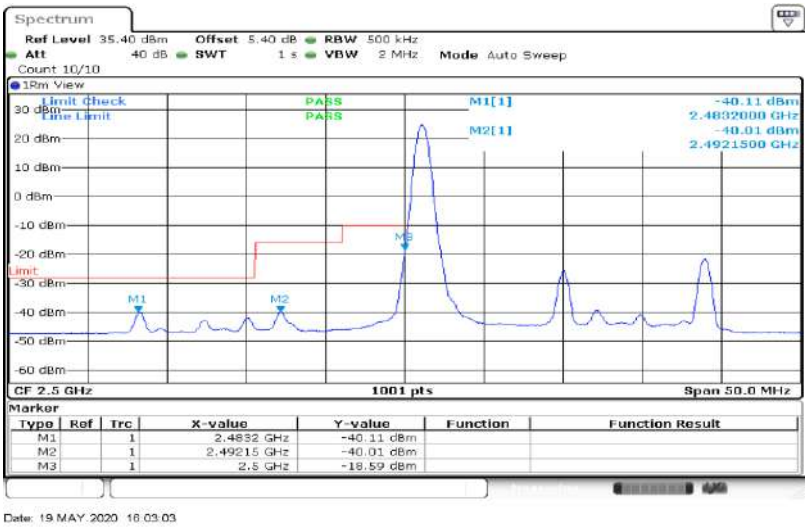

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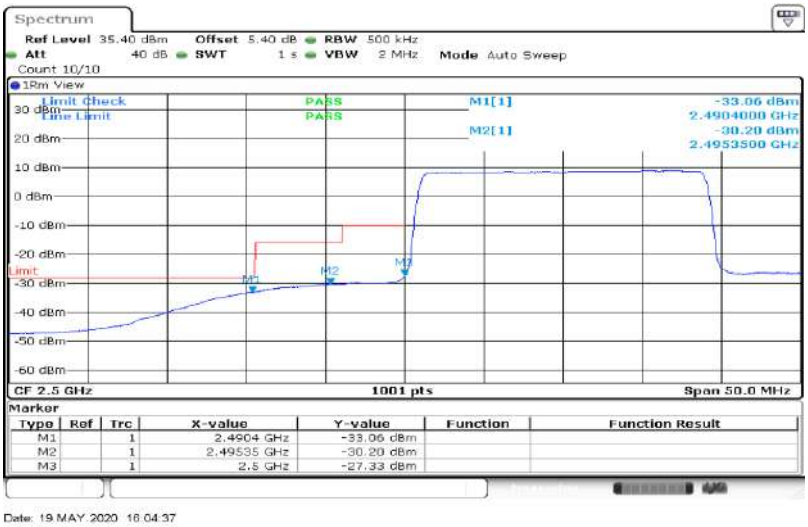
Band7-20MHz-16QAM-20850-100RB#0



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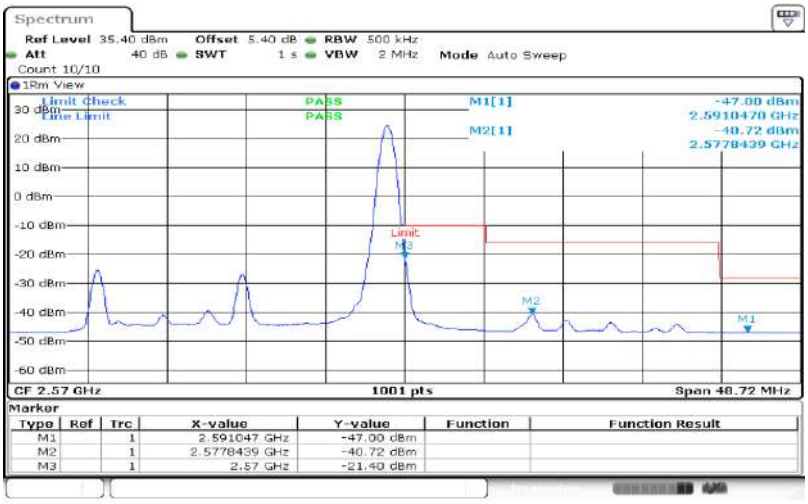

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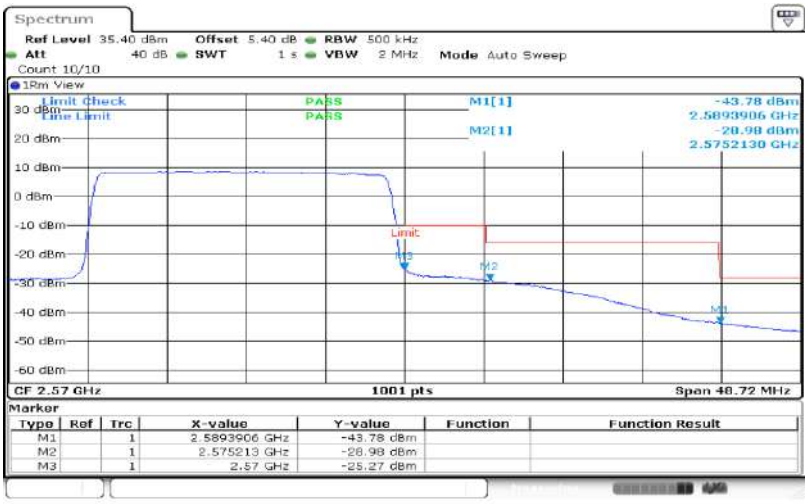
Band7-20MHz-16QAM-21350-100RB#0



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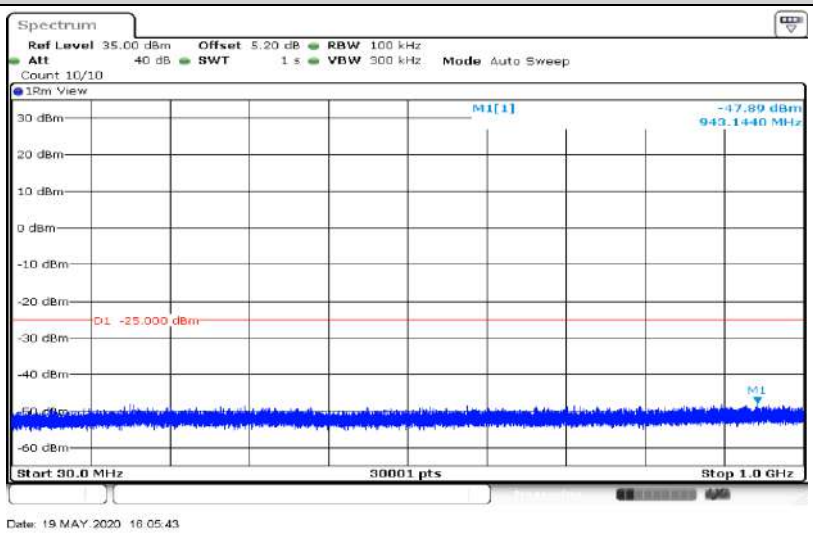
6. Spurious Emission at Antenna Terminal

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

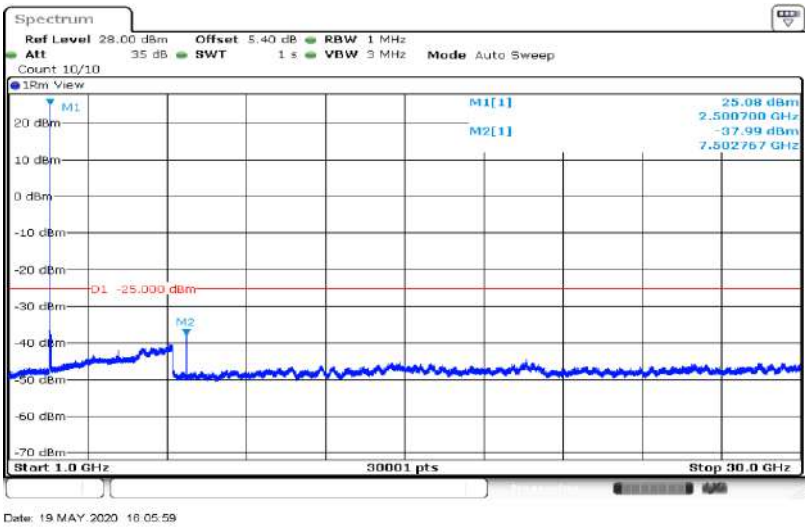
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band7-20MHz-QPSK-20850-1RB#0-Range1:30~1000MHz



Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~30000MHz



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

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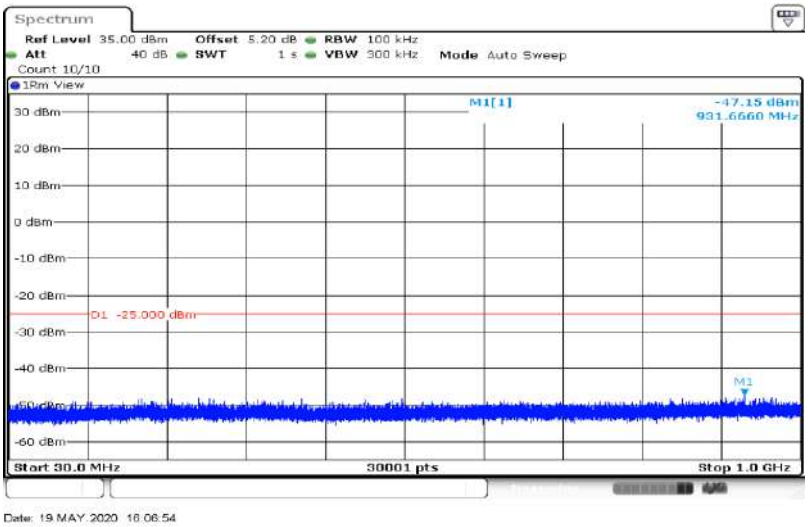

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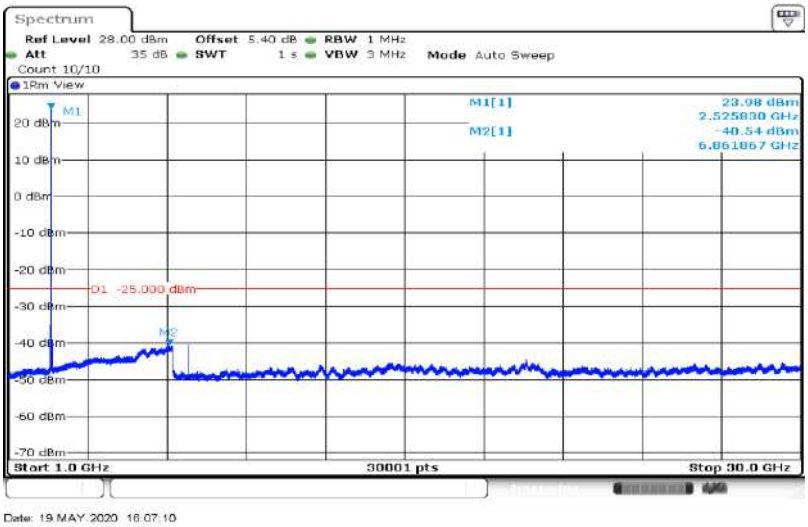

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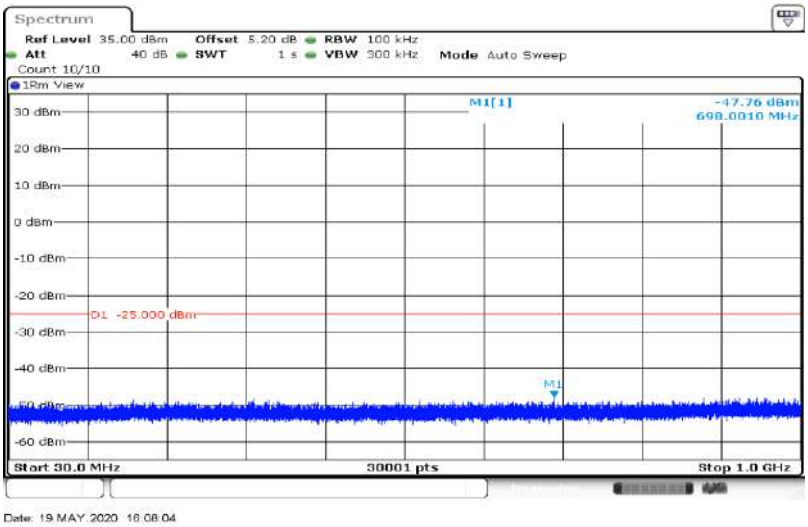

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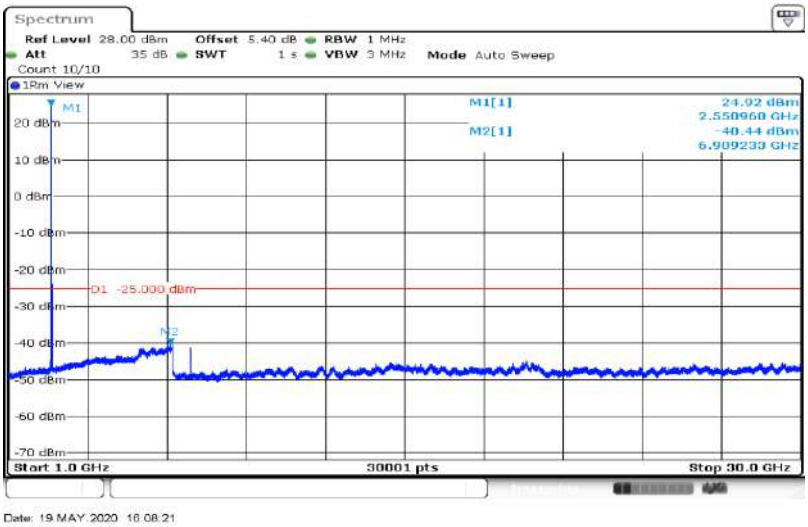

Band7-20MHz-64QAM-20850-1RB#0-Range1:30~1000MHz

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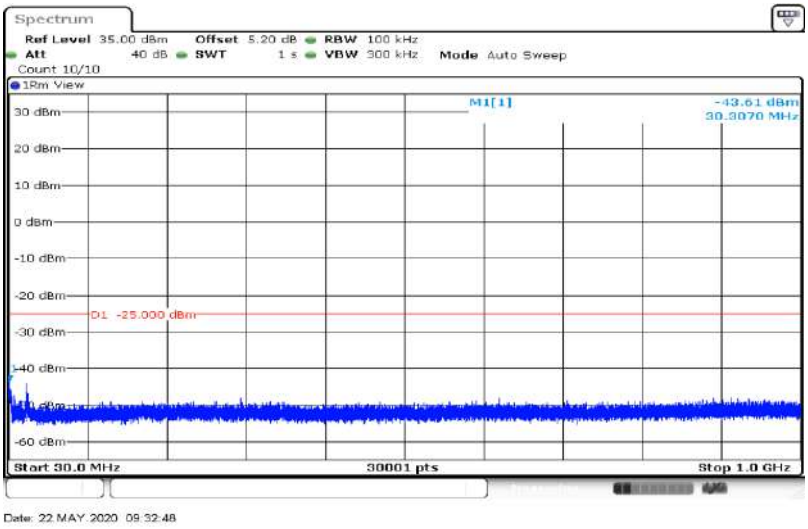
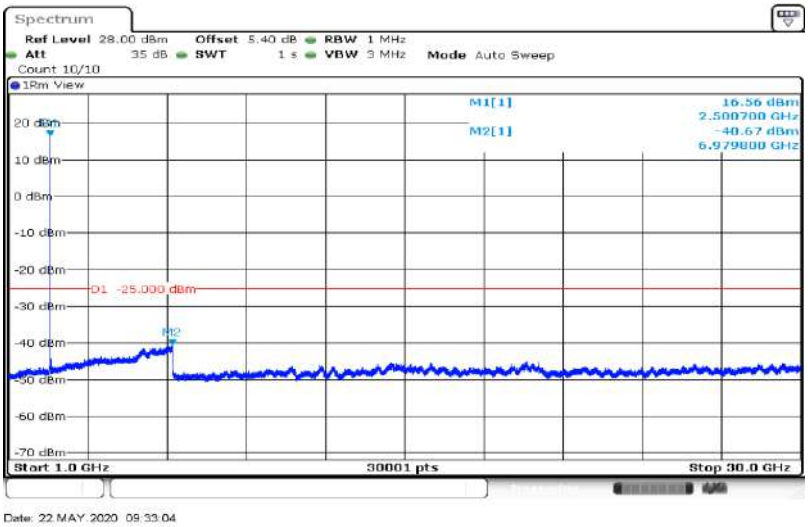


Band7-20MHz-64QAM-20850-1RB#0-Range2:1000~30000MHz



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

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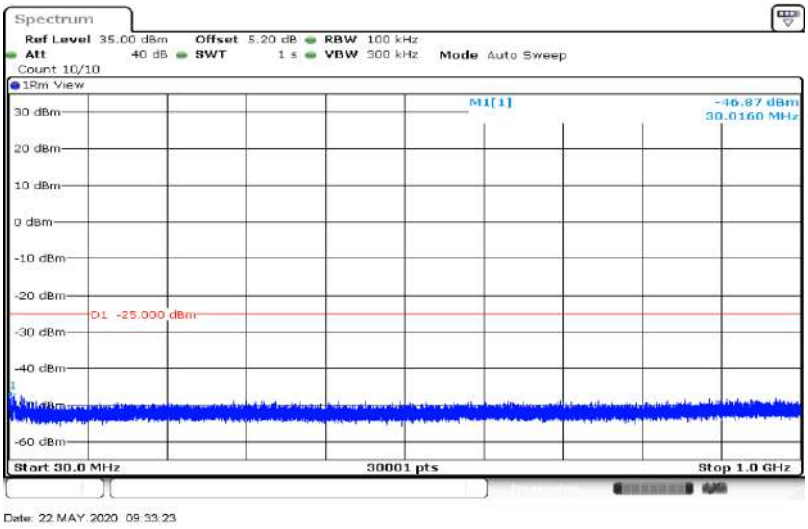
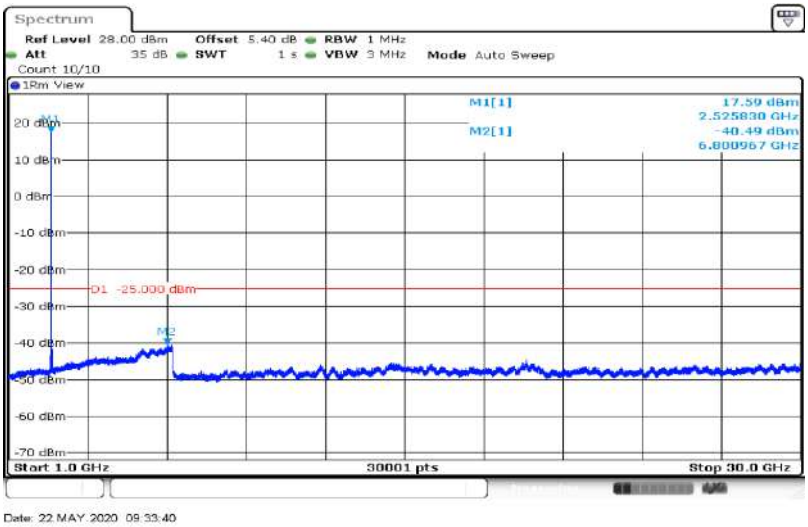


Band7-20MHz-64QAM-21100-1RB#0-Range2:1000~30000MHz



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

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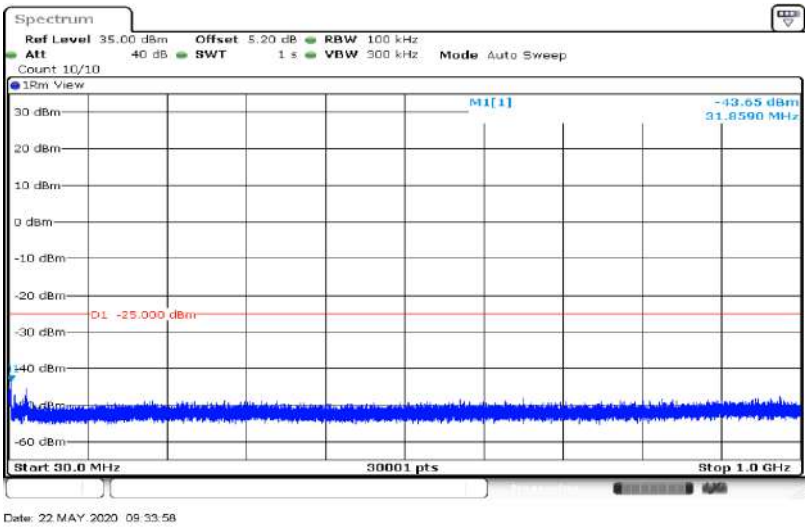
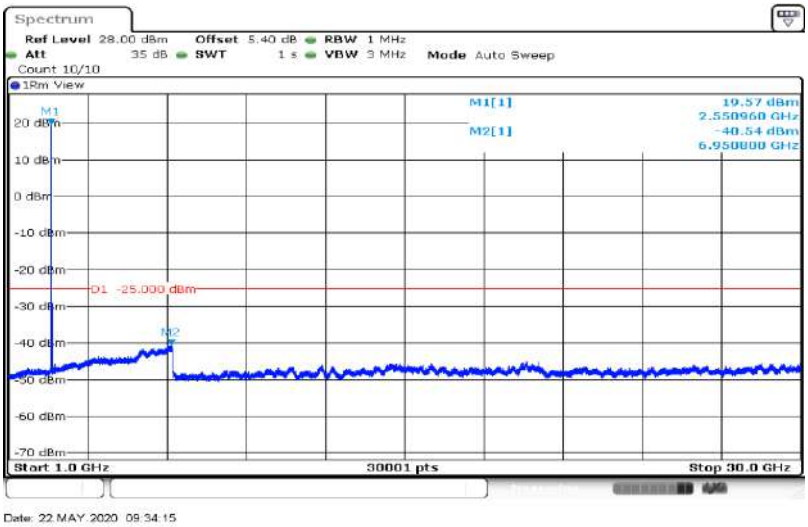


Band7-20MHz-64QAM-21350-1RB#0-Range2:1000~30000MHz



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

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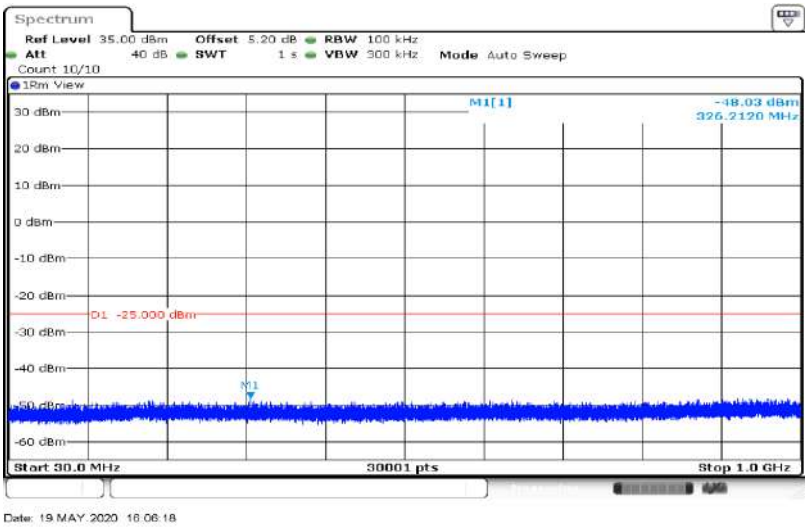
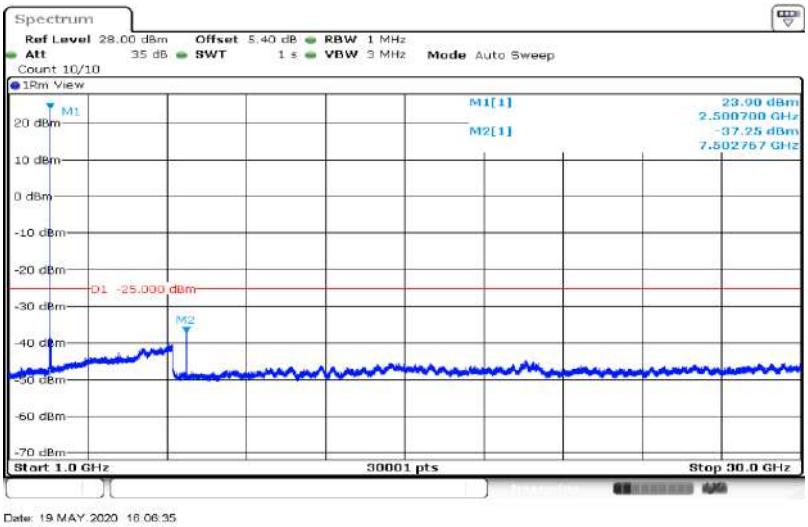


Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz



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

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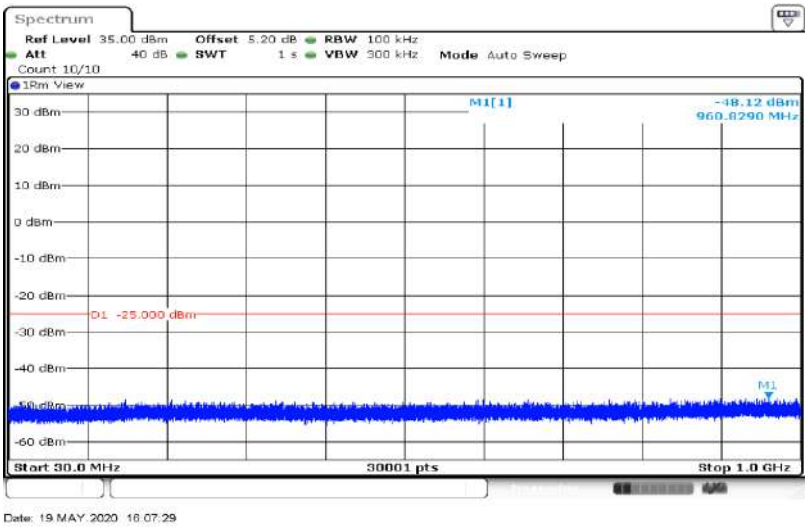
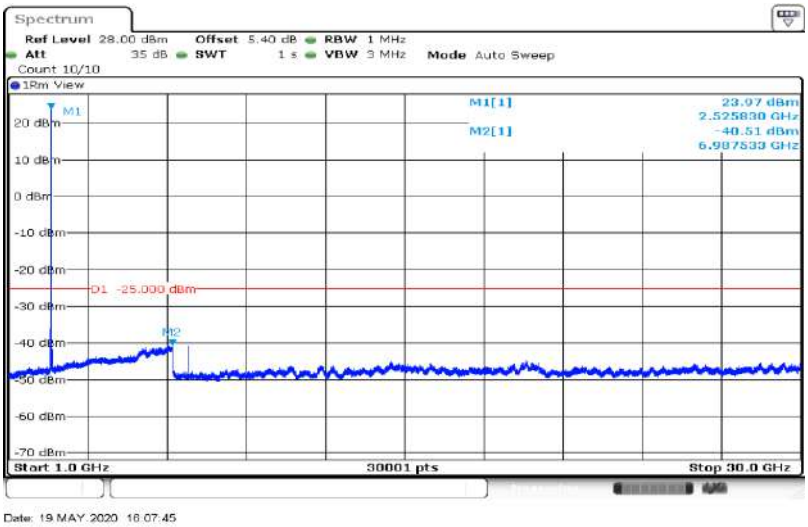


Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



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

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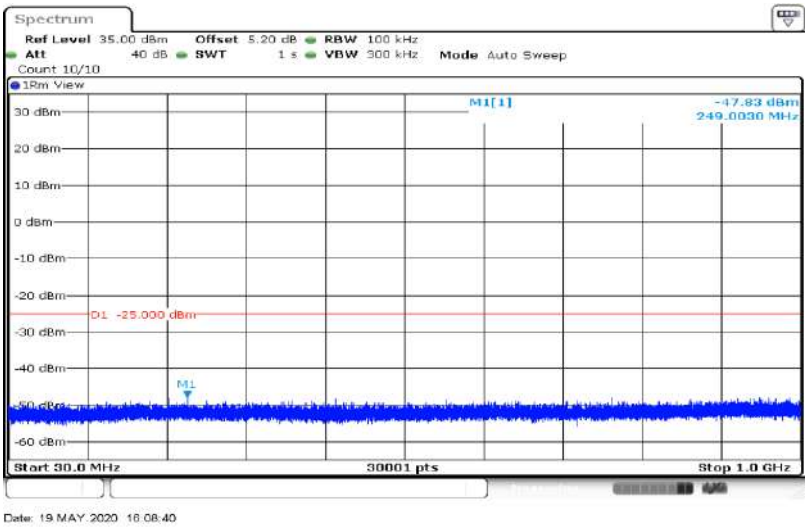
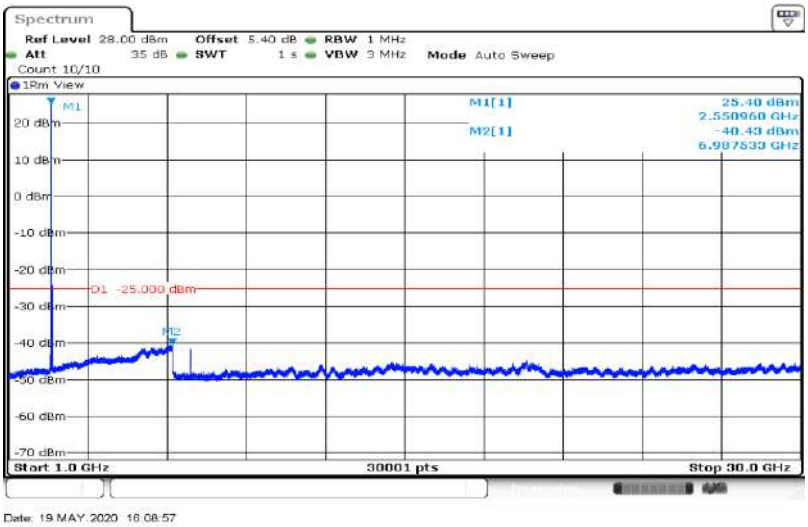


Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 7

7.1.1. Test Mode =LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
116.2373	-65.59	-25.00	40.59	152	0	Vertical
647.1934	-64.73	-25.00	39.73	199	165	Vertical
1702.9406	-45.51	-25.00	20.51	145	155	Vertical
5002.2801	-59.46	-25.00	34.46	175	250	Vertical
14518.6607	-49.98	-25.00	24.98	166	271	Vertical
17995.7998	-42.06	-25.00	17.06	127	17	Vertical
43.8232	-64.40	-25.00	39.40	196	165	Horizontal
753.6562	-62.43	-25.00	37.43	145	229	Horizontal
1807.3615	-44.58	-25.00	19.58	222	183	Horizontal
5002.2801	-62.38	-25.00	37.38	154	207	Horizontal
16409.9364	-46.11	-25.00	21.11	269	144	Horizontal
17994.5998	-47.54	-25.00	22.54	234	187	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.5625	-65.61	-25.00	40.61	188	250	Vertical
649.6670	-64.63	-25.00	39.63	189	207	Vertical
1788.1576	-45.30	-25.00	20.30	144	62	Vertical
5052.0821	-59.17	-25.00	34.17	263	229	Vertical
14491.0596	-50.41	-25.00	25.41	222	38	Vertical
17997.5999	-42.45	-25.00	17.45	284	356	Vertical
39.8460	-65.10	-25.00	40.10	252	187	Horizontal
557.0759	-66.06	-25.00	41.06	263	80	Horizontal
1796.9594	-44.50	-25.00	19.50	274	97	Horizontal
5052.0821	-62.34	-25.00	37.34	182	229	Horizontal
16406.9363	-46.24	-25.00	21.24	194	292	Horizontal
17997.5999	-47.08	-25.00	22.08	138	250	Horizontal

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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
117.4014	-65.34	-25.00	40.34	263	0	Vertical
654.9537	-64.10	-25.00	39.10	222	292	Vertical
1729.3459	-45.29	-25.00	20.29	284	320	Vertical
5101.8841	-61.51	-25.00	36.51	254	271	Vertical
14530.0612	-50.59	-25.00	25.59	111	144	Vertical
17994.5998	-42.62	-25.00	17.62	187	80	Vertical
44.5992	-63.85	-25.00	38.85	178	59	Horizontal
1801.3603	-44.42	-25.00	19.42	263	17	Horizontal
5102.4841	-63.30	-25.00	38.30	166	186	Horizontal
7453.3781	-59.19	-25.00	34.19	173	229	Horizontal
16381.7353	-46.70	-25.00	21.70	154	334	Horizontal
17996.3999	-47.19	-25.00	22.19	222	314	Horizontal

Remark:

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

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

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

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	1.50	0.000598	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	2.60	0.001036	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	4.30	0.001713	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-4.20	-0.001657	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-1.10	-0.000434	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-3.00	-0.001183	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	3.60	0.001406	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	1.50	0.000586	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	0.60	0.000234	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VL	NT	1.80	0.000717	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VN	NT	4.00	0.001594	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VH	NT	2.40	0.000956	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VL	NT	-2.30	-0.000907	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VN	NT	-1.30	-0.000513	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VH	NT	-3.00	-0.001183	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VL	NT	3.50	0.001367	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VN	NT	-0.40	-0.000156	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VH	NT	0.80	0.000313	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	1.70	0.000677	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	2.20	0.000876	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	1.30	0.000518	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-3.00	-0.001183	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-1.60	-0.000631	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-3.40	-0.001341	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-0.20	-0.000078	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	2.10	0.000820	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-0.40	-0.000156	±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	1.10	0.000438	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	1.60	0.000637	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	5.90	0.002351	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	2.70	0.001076	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	5.30	0.002112	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	3.80	0.001514	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	0.20	0.000080	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	1.50	0.000598	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-2.90	-0.001144	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-3.30	-0.001302	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-3.00	-0.001183	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-3.80	-0.001499	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-1.00	-0.000394	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	0.40	0.000158	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-3.80	-0.001499	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-1.70	-0.000671	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-0.20	-0.000078	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	0.70	0.000273	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-1.00	-0.000391	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-2.90	-0.001133	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	1.30	0.000508	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	3.20	0.001250	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	3.30	0.001289	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	1.70	0.000664	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-30	3.50	0.001394	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-20	1.10	0.000438	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	0	4.00	0.001594	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	10	3.70	0.001474	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	20	2.00	0.000797	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	30	2.90	0.001155	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	40	2.10	0.000837	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	50	2.60	0.001036	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-30	-2.80	-0.001105	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-20	-3.40	-0.001341	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	0	10.60	0.004181	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	10	-1.10	-0.000434	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	20	-3.70	-0.001460	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	30	-1.90	-0.000750	±2.5	PASS

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Band7	20MHz	64QAM	21100	100RB#0	NV	40	-4.20	-0.001657	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	50	-3.20	-0.001262	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-30	0.90	0.000352	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-20	1.60	0.000625	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	0	-1.40	-0.000547	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	10	-0.50	-0.000195	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	20	2.20	0.000859	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	30	2.70	0.001055	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	40	0.50	0.000195	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	50	1.80	0.000703	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	4.10	0.001633	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	0.70	0.000279	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	2.50	0.000996	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	0.40	0.000159	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	0.70	0.000279	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	2.80	0.001116	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	7.80	0.003108	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-0.50	-0.000197	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-3.10	-0.001223	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-3.90	-0.001538	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-3.20	-0.001262	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-13.40	-0.005286	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-1.40	-0.000552	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-2.20	-0.000868	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-7.40	-0.002919	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	2.50	0.000977	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	2.50	0.000977	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	1.40	0.000547	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	3.30	0.001289	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	2.50	0.000977	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	3.10	0.001211	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	-0.10	-0.000039	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-0.80	-0.000313	±2.5	PASS

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