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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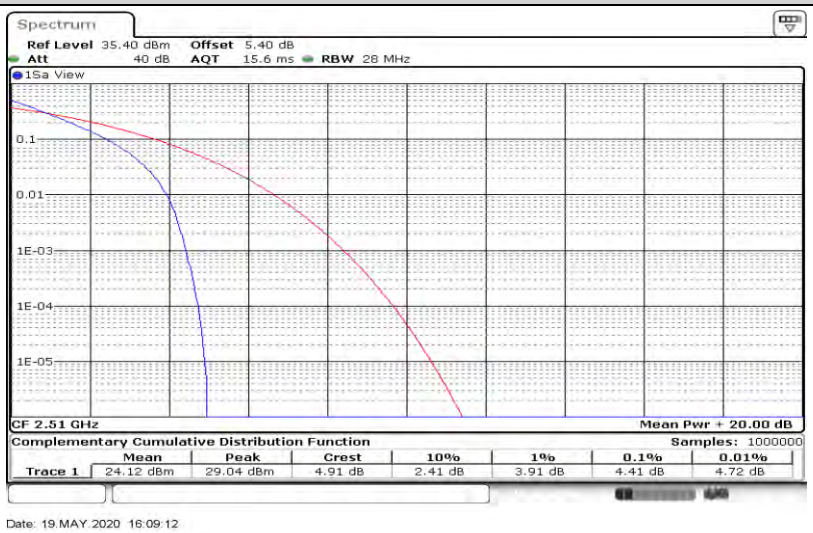
2. Peak-to-Average Ratio (CCDF)

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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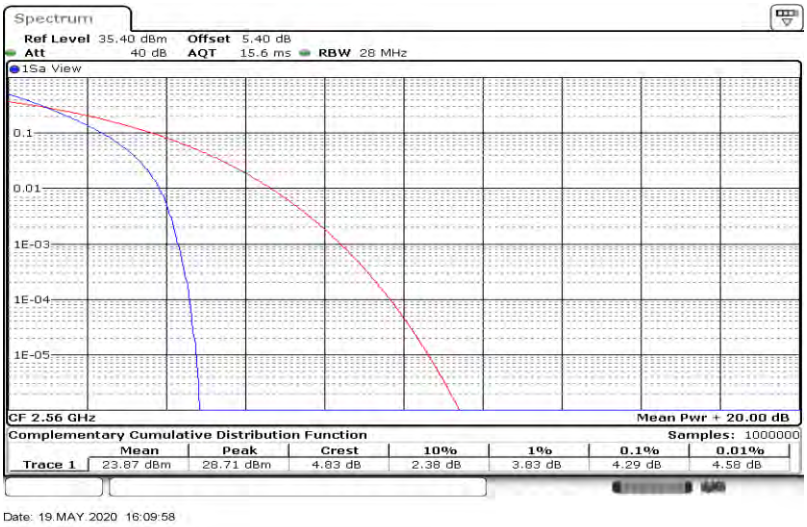

Band7-20MHz-64QAM-20850-100RB#0

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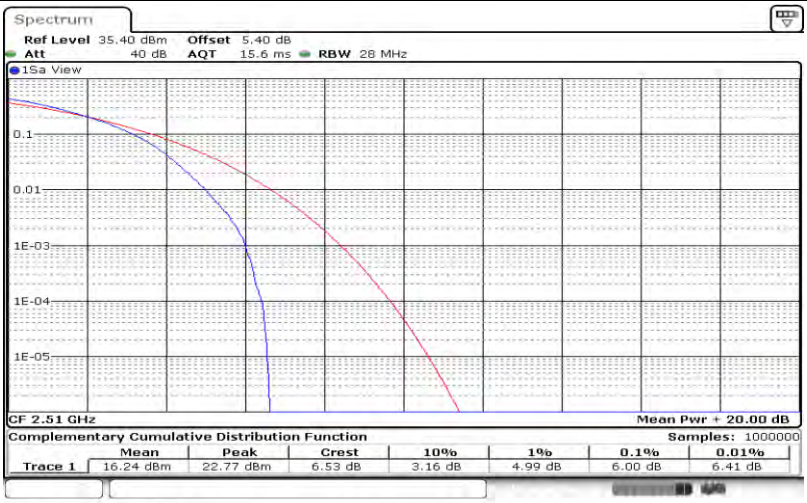
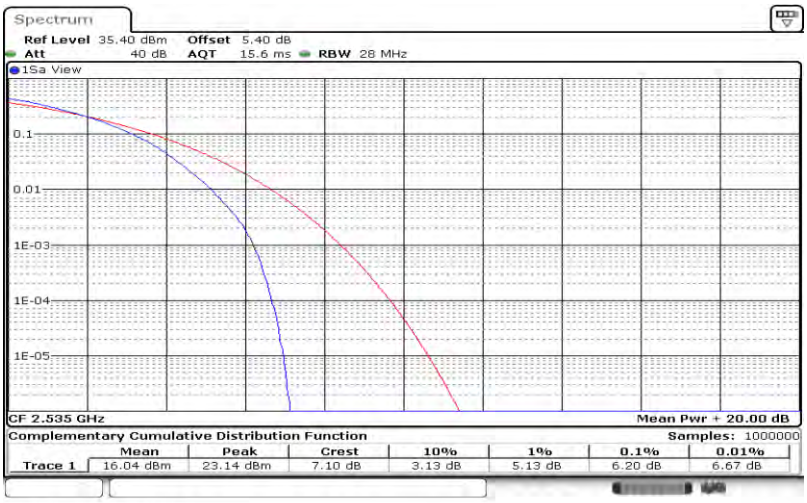


Date: 22.MAY.2020 09:19:56

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



Date: 22.MAY.2020 09:20:08

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

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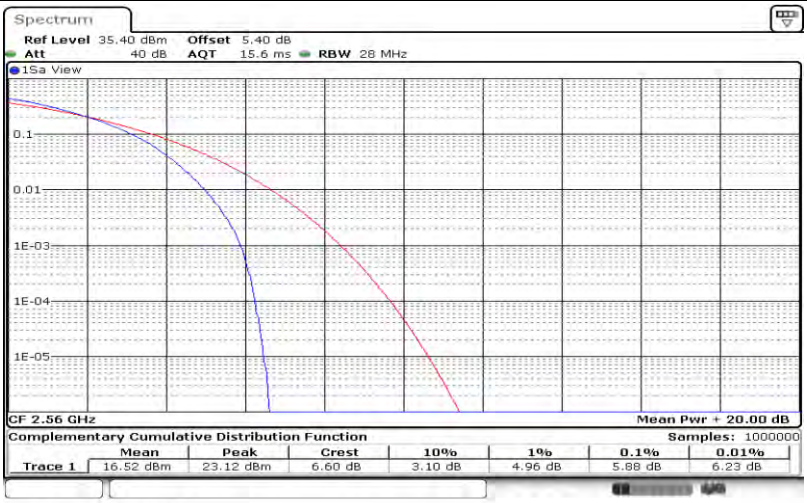
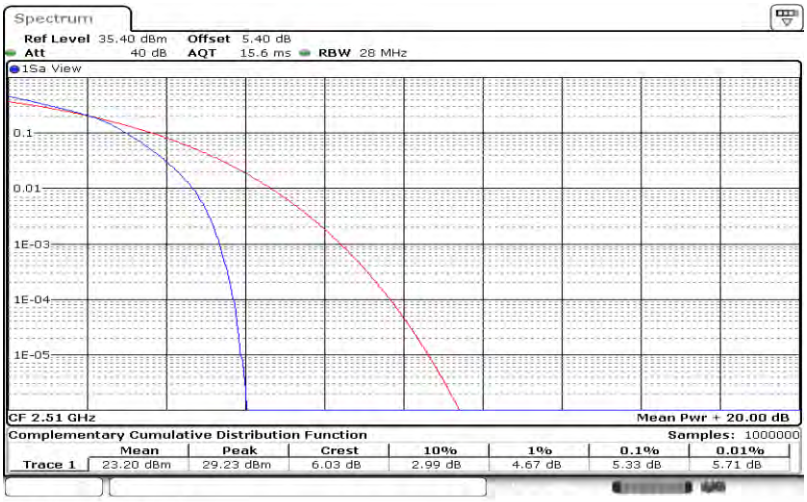


Date: 22.MAY.2020 09:20:19

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



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

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

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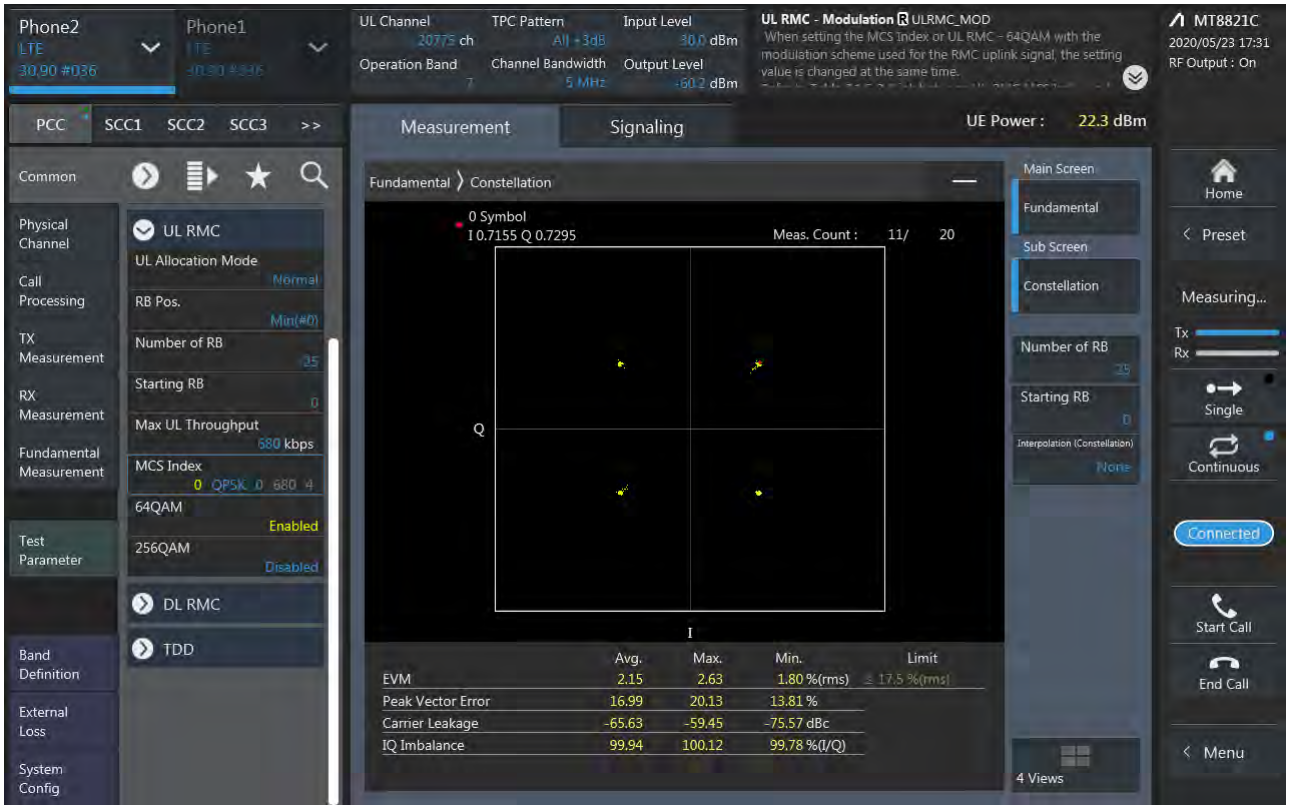
3. Modulation Characteristics

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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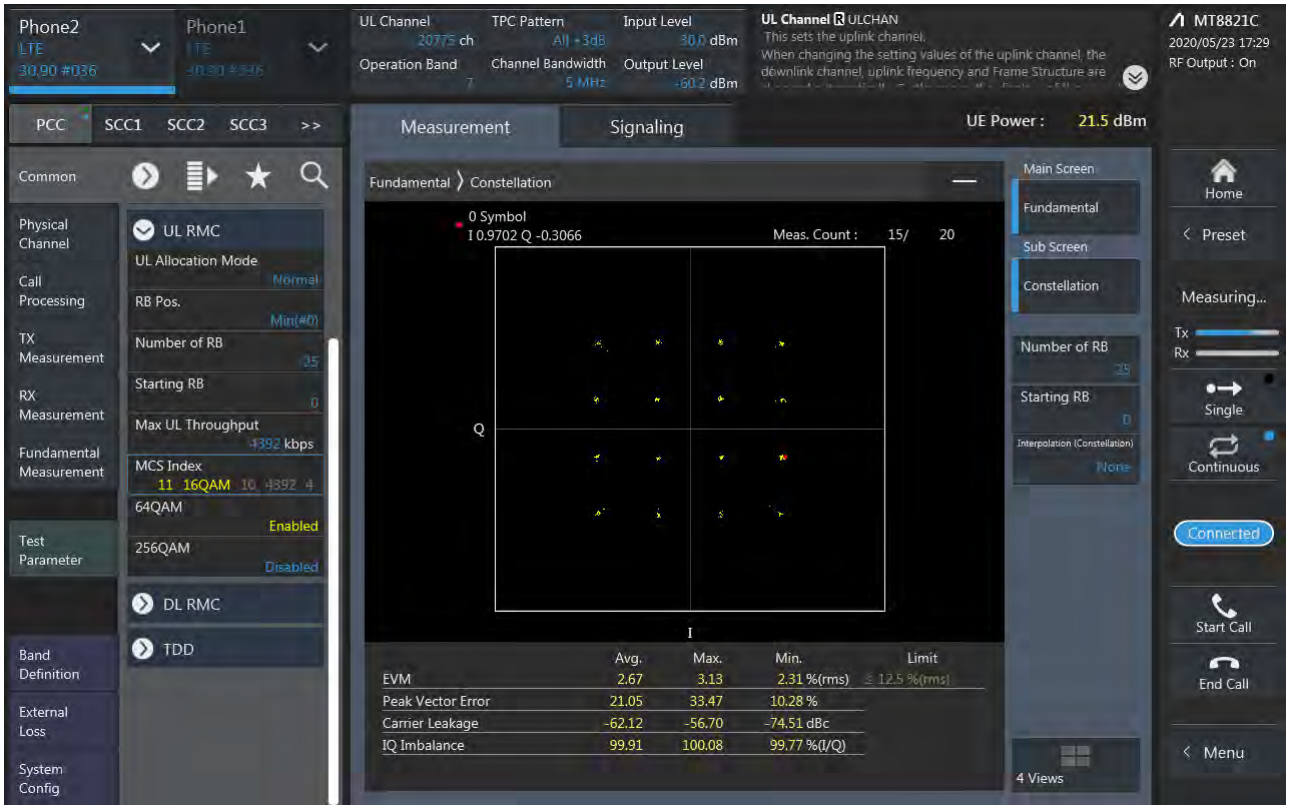
3.1.2.Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH



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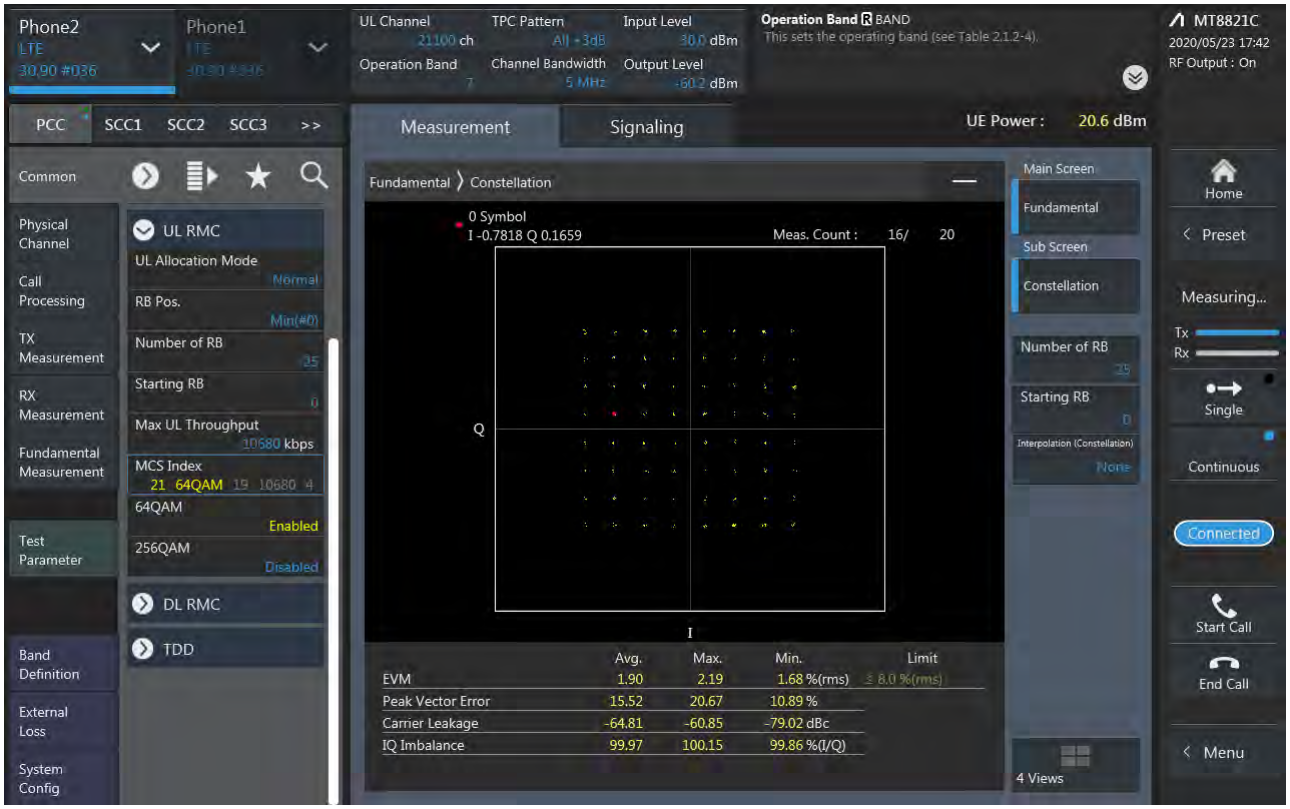
3.1.3.Test Mode = LTE /TM3 20MHz

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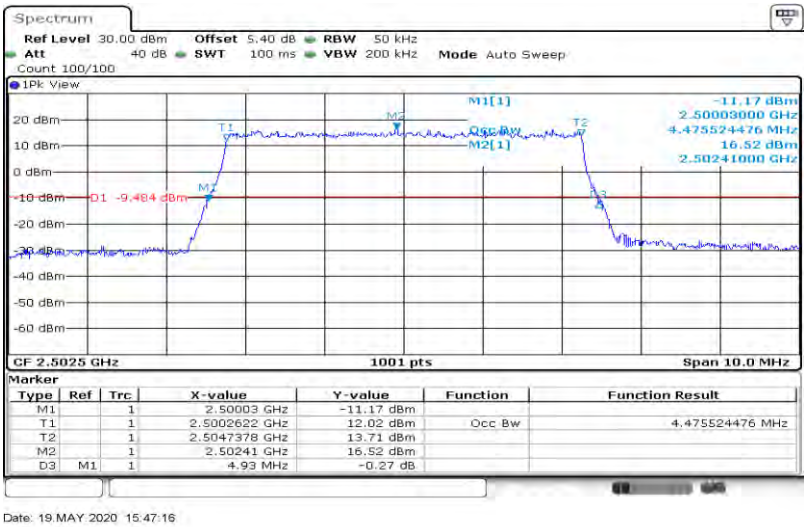
Band7	20MHz	64QAM	21100	100RB#0	17.902	19.480	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.902	19.440	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.360	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.862	19.440	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.902	19.360	PASS

4.2. Test Plots

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



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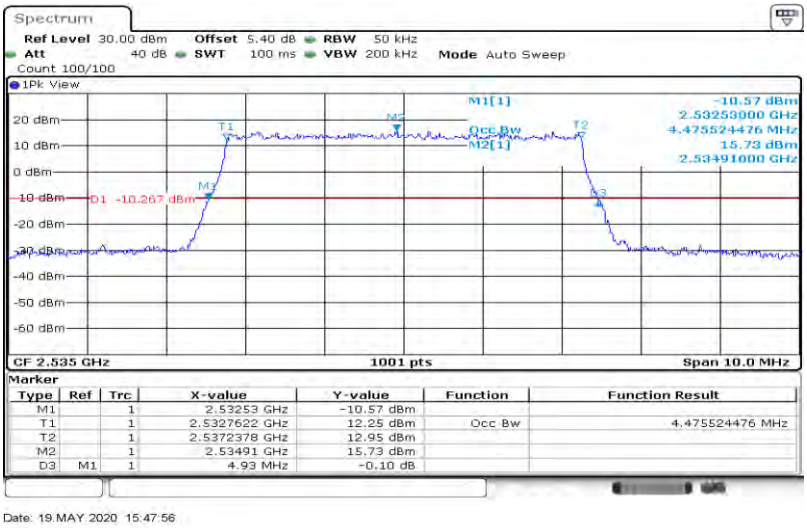

Band7-5MHz-QPSK-21425-25RB#0-4.476

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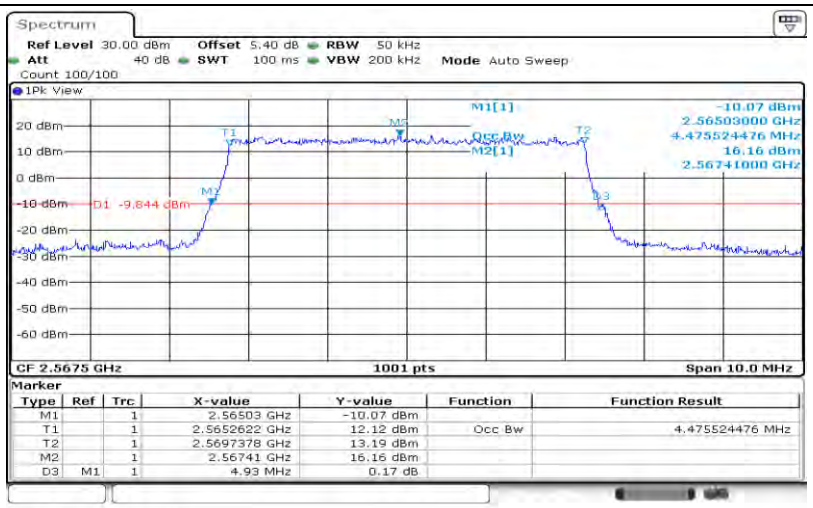

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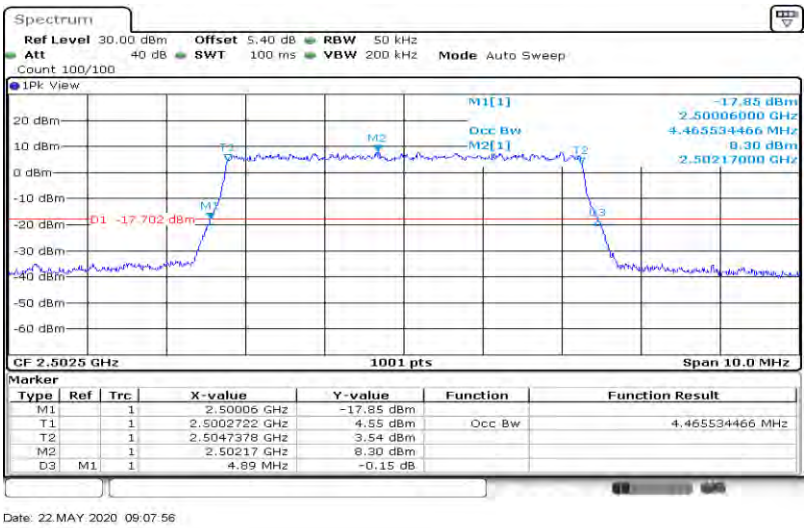

Band7-5MHz-64QAM-21100-25RB#0-4.476

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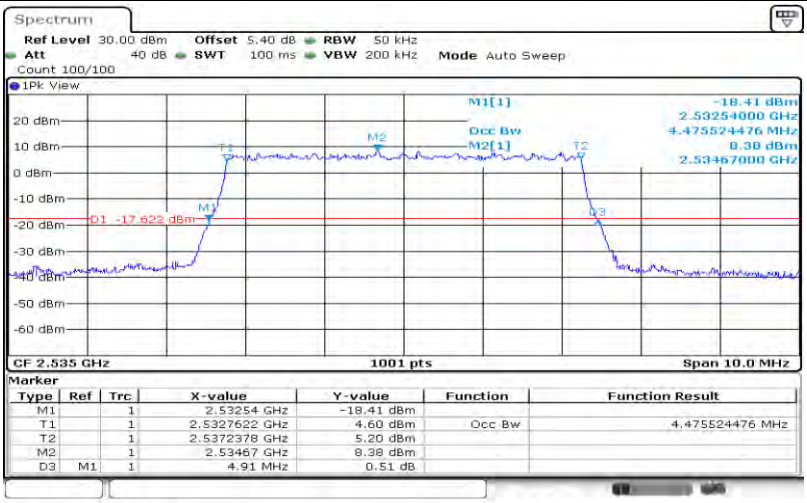
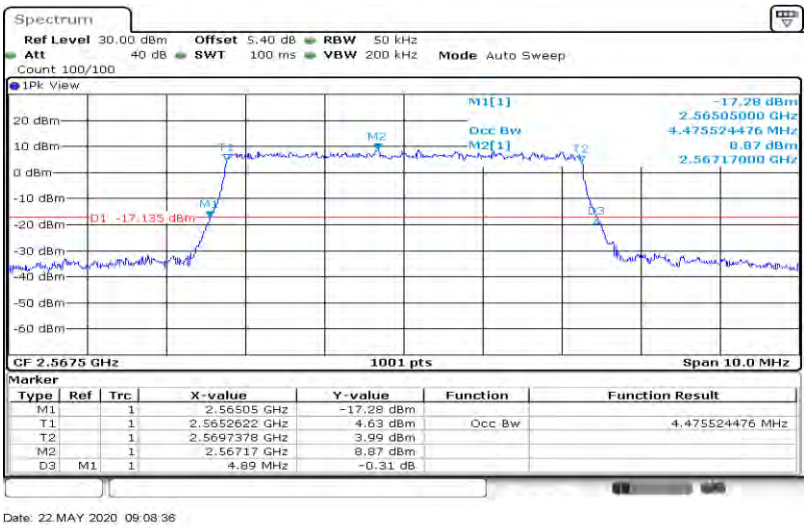


Band7-5MHz-64QAM-21425-25RB#0-4.476



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

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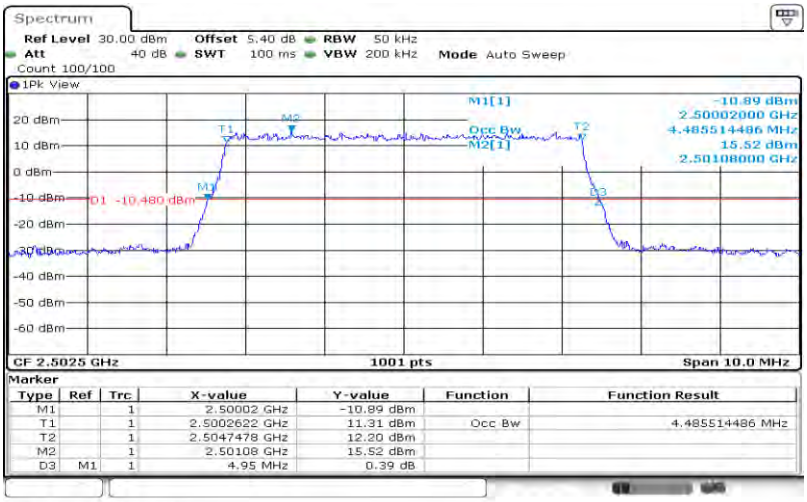

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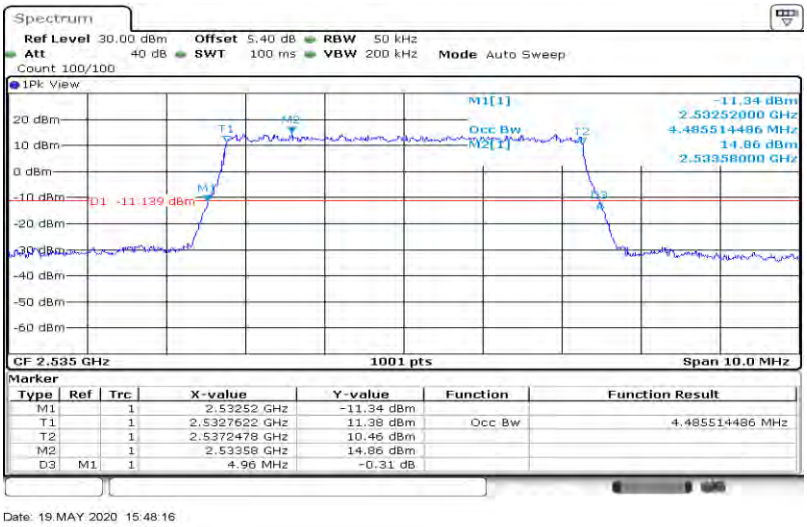

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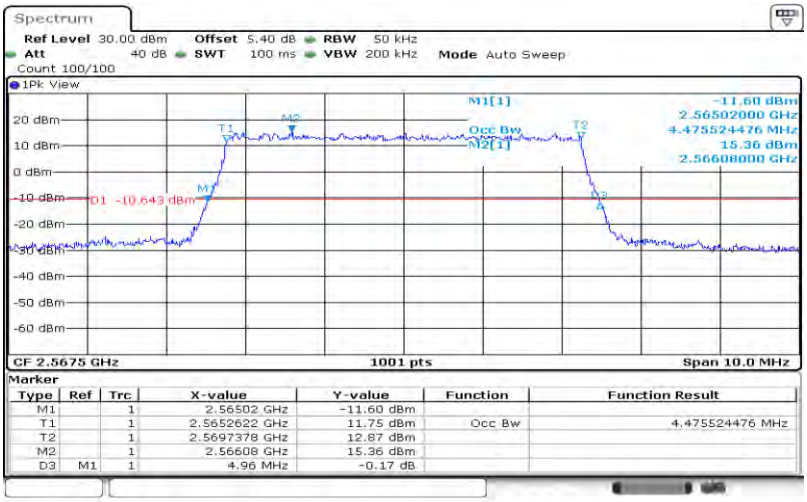
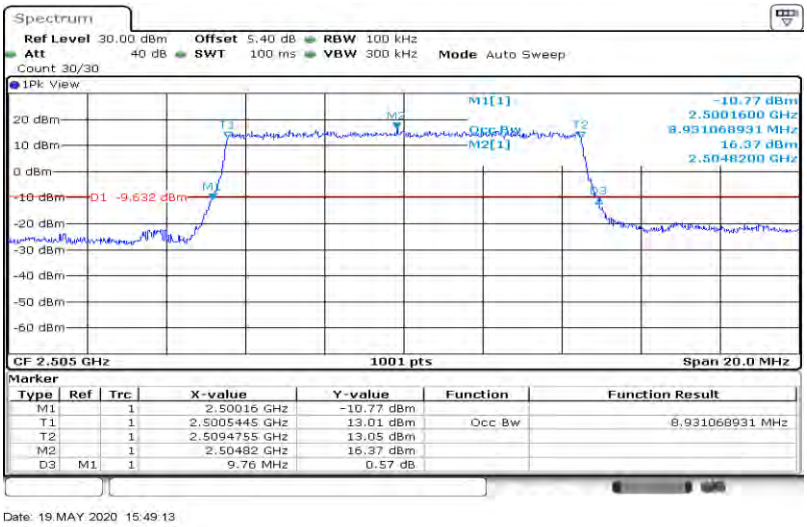


Band7-10MHz-QPSK-20800-50RB#0-8.931



Band7-10MHz-QPSK-21100-50RB#0-8.931

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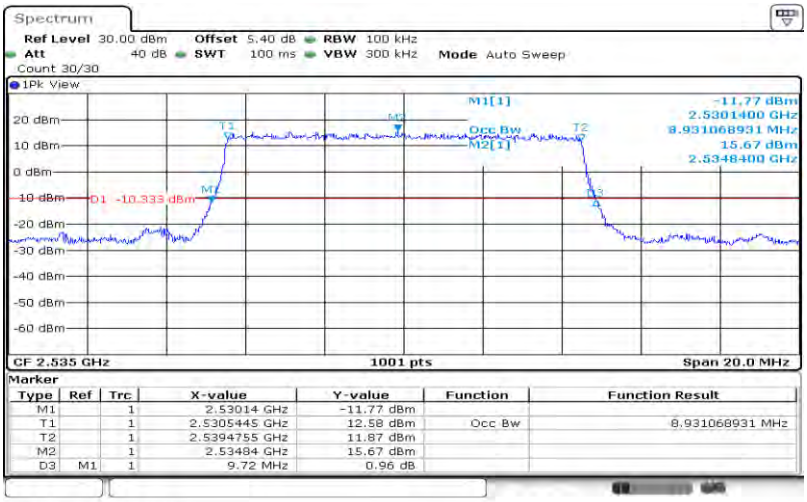

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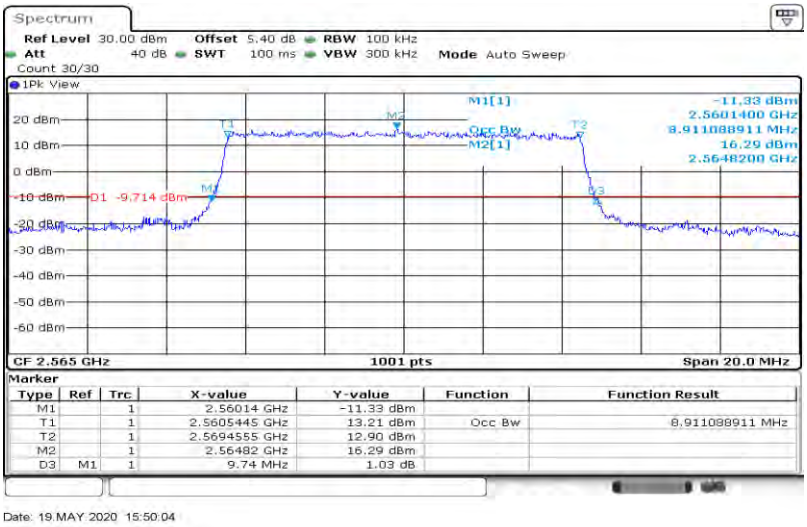

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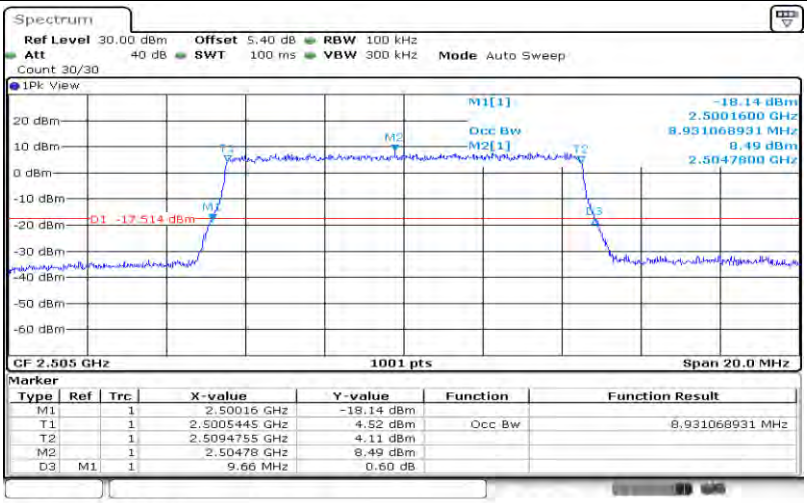

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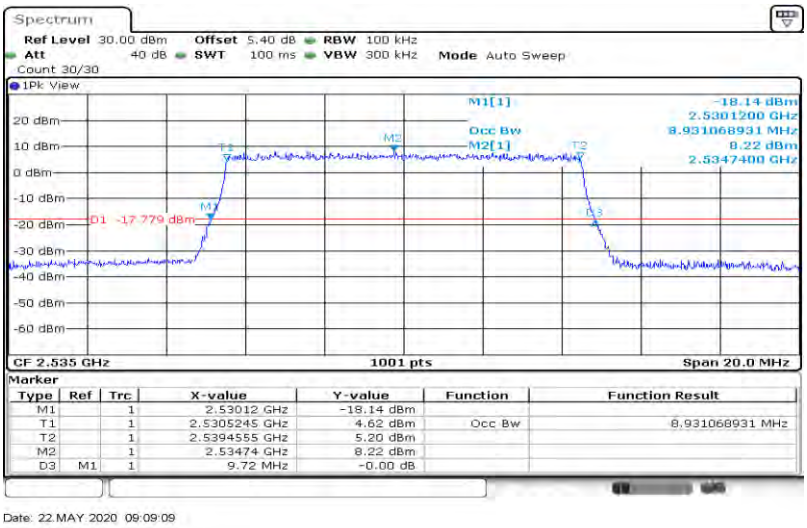

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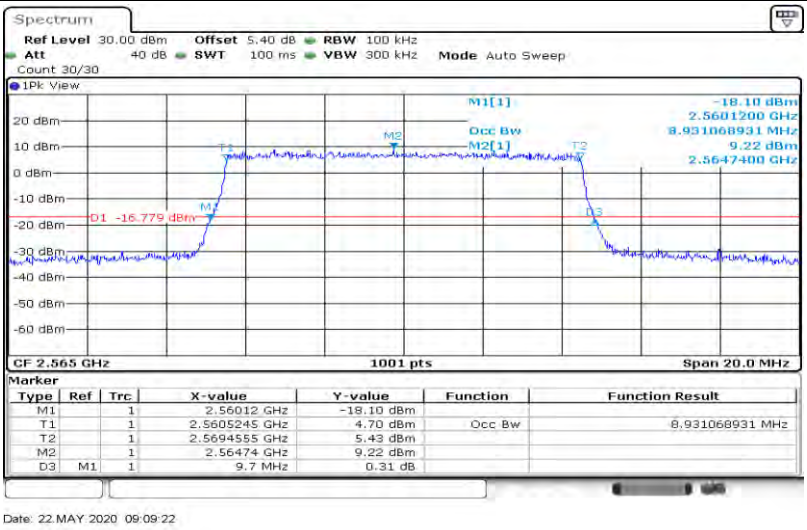
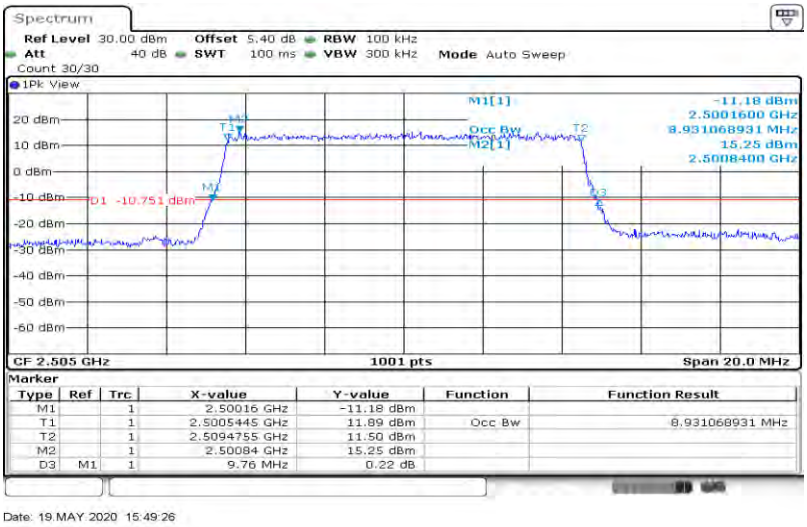


Band7-10MHz-16QAM-20800-50RB#0-8.931



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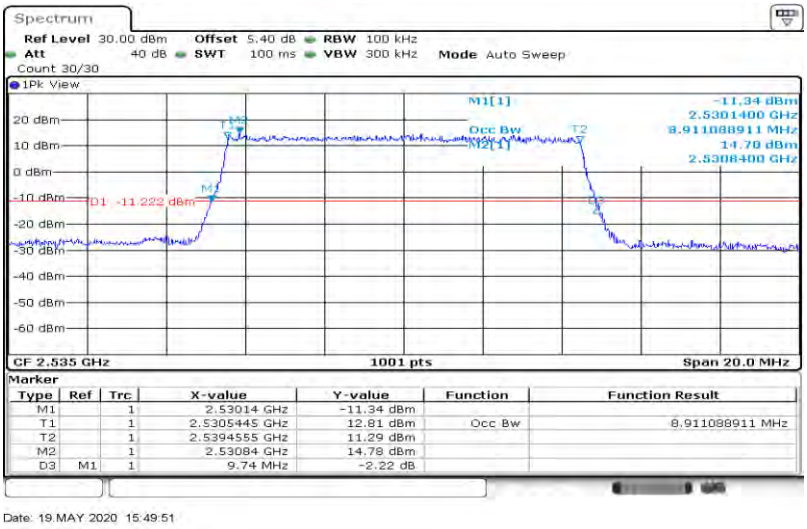

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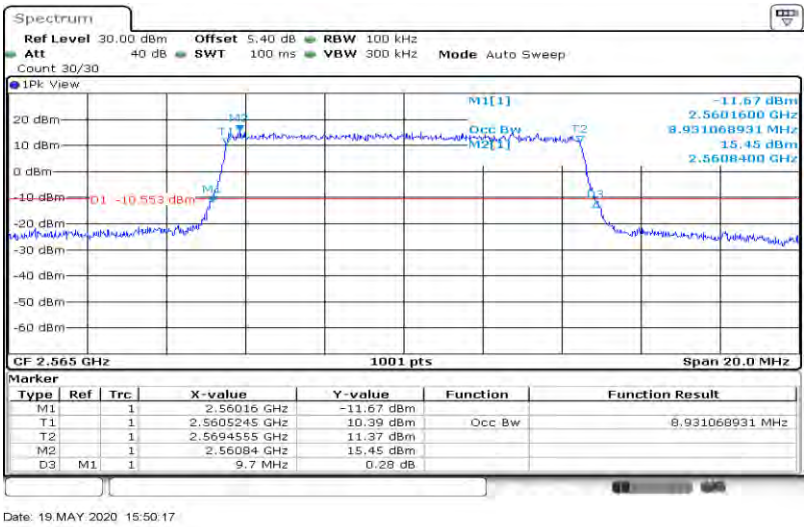

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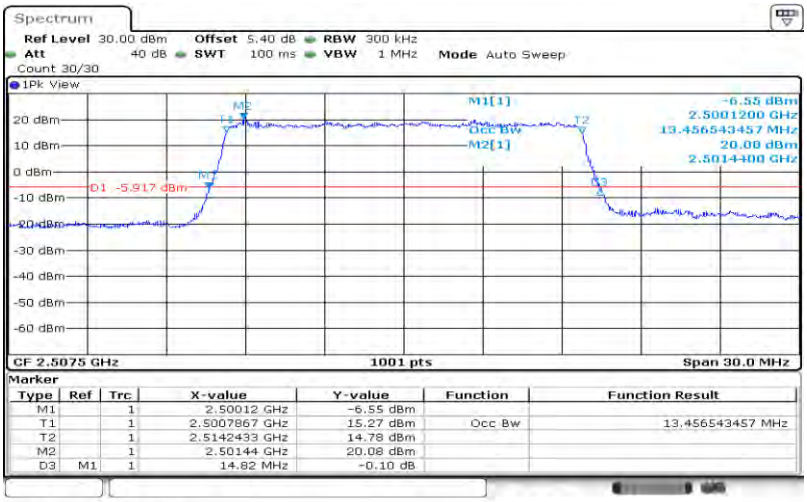

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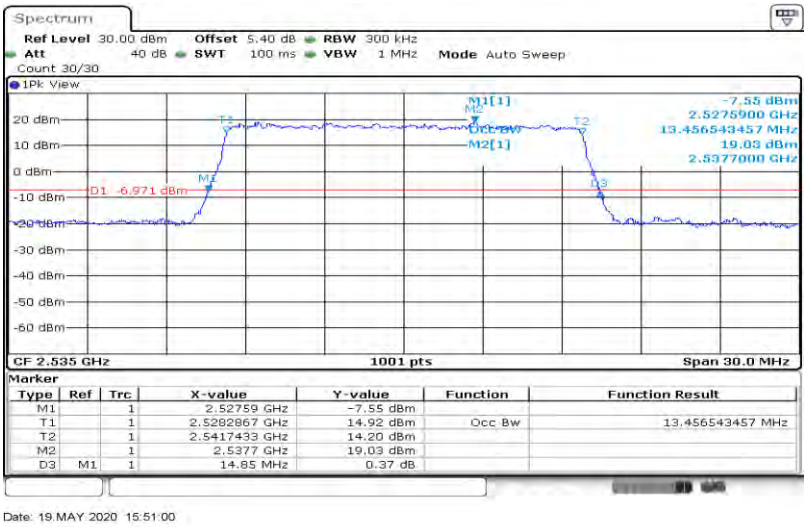

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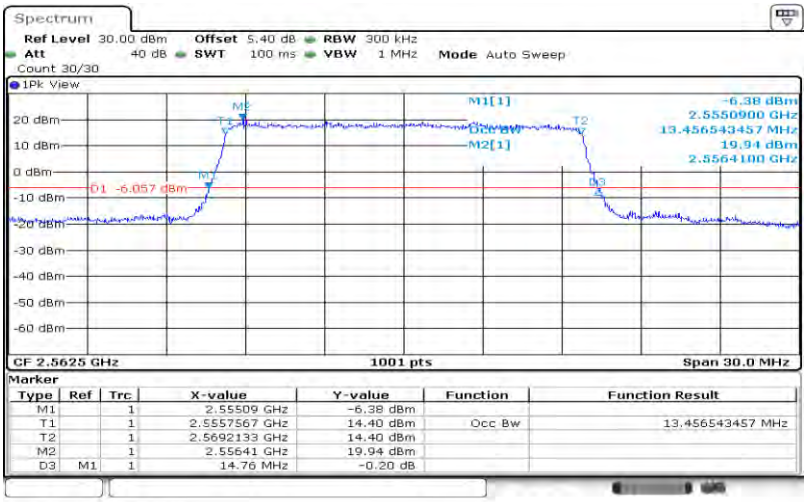
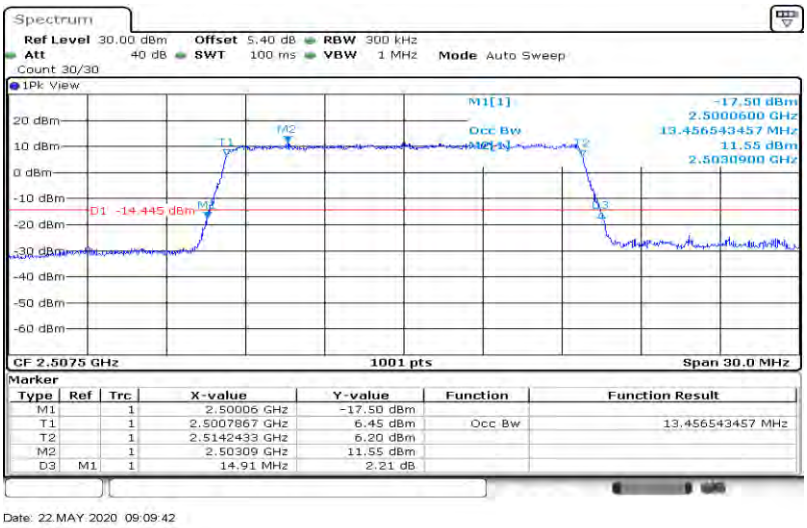


Band7-15MHz-64QAM-20825-75RB#0-13.457



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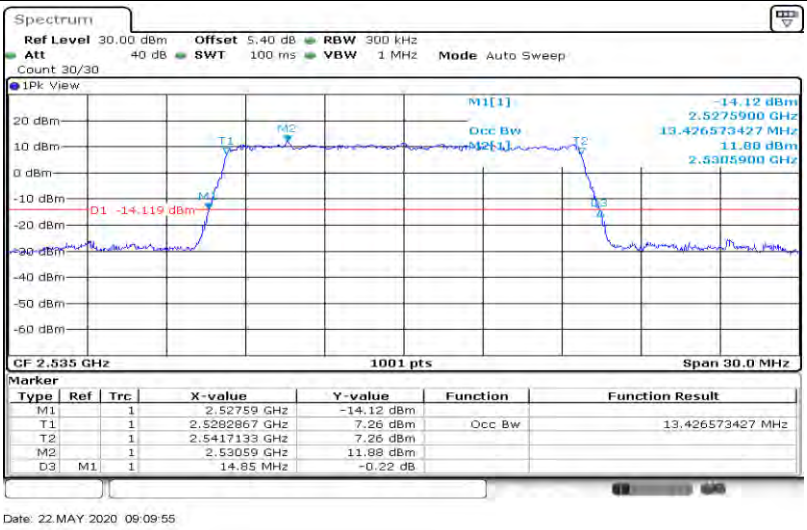

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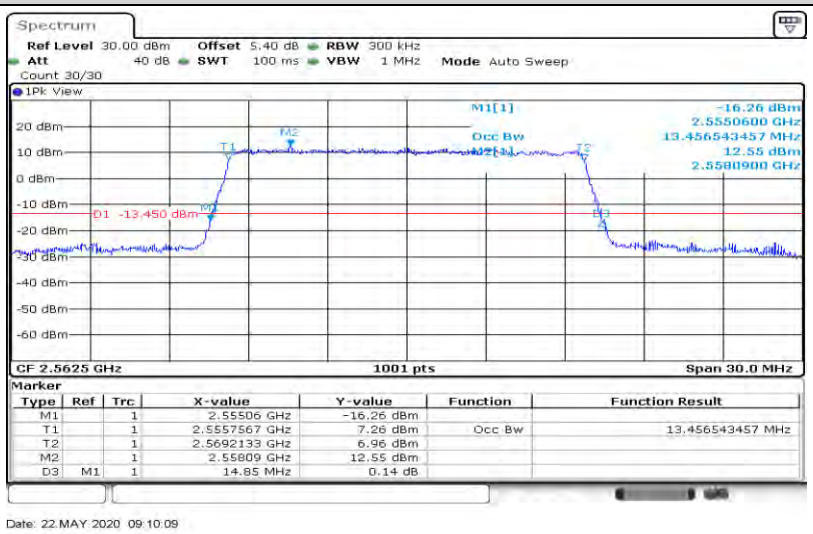

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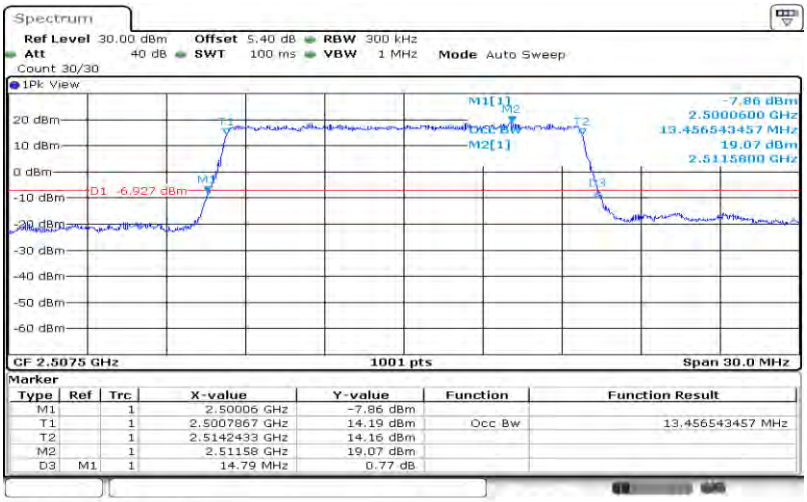

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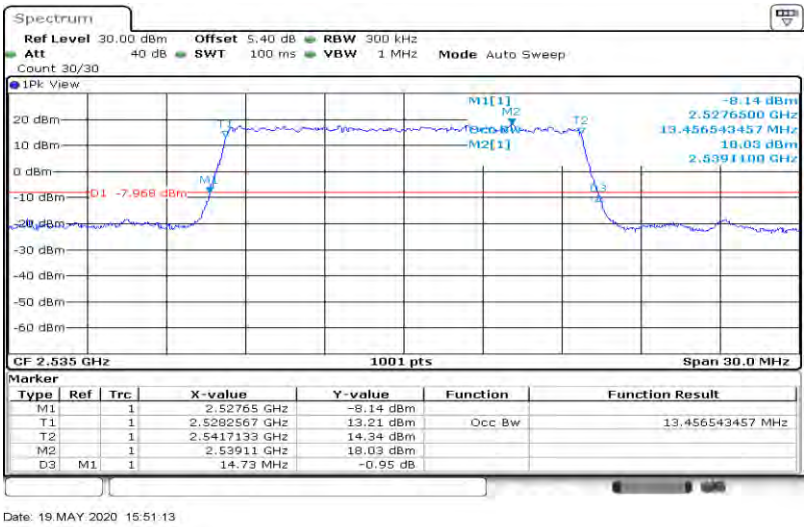

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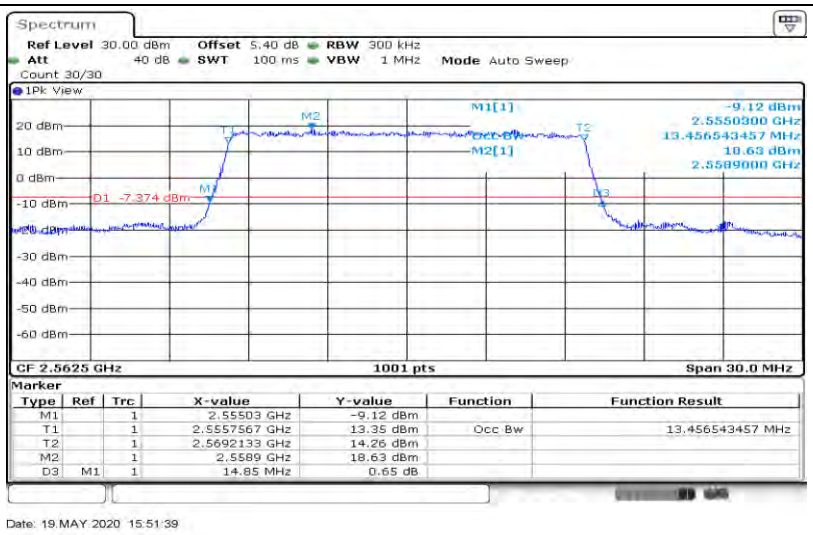

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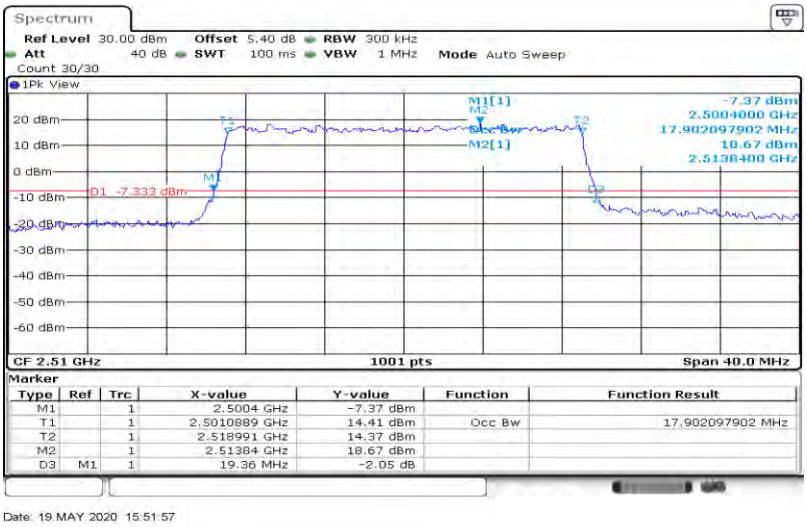

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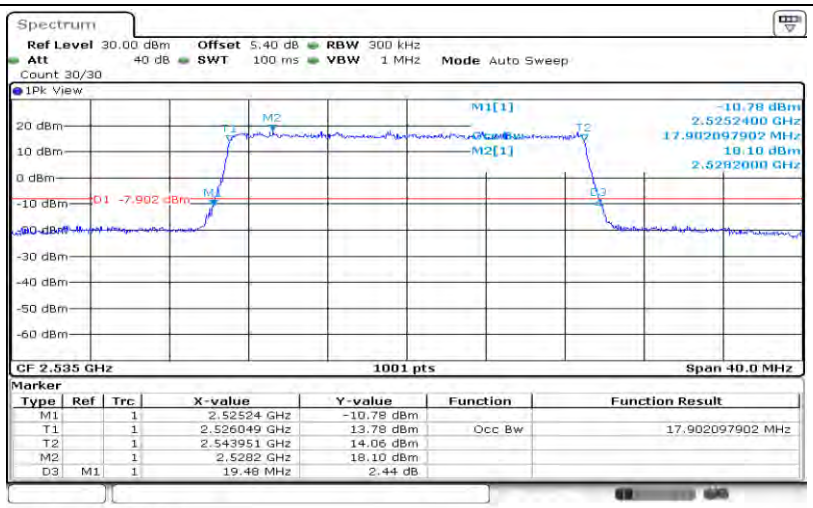

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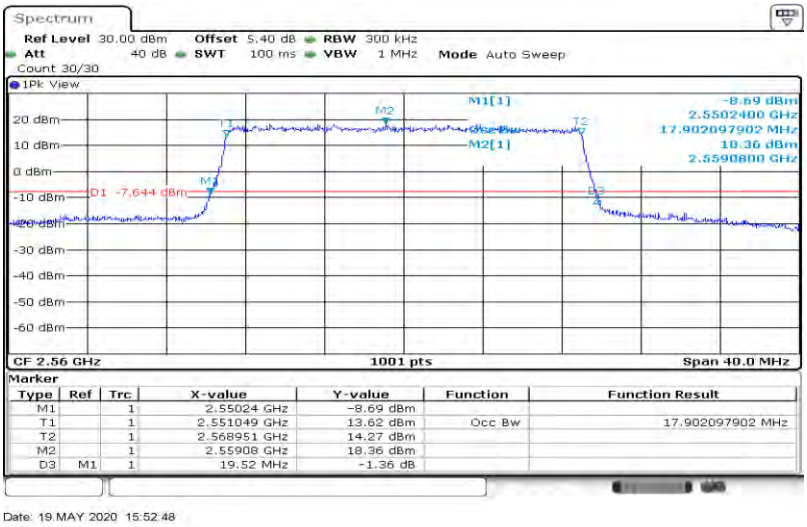

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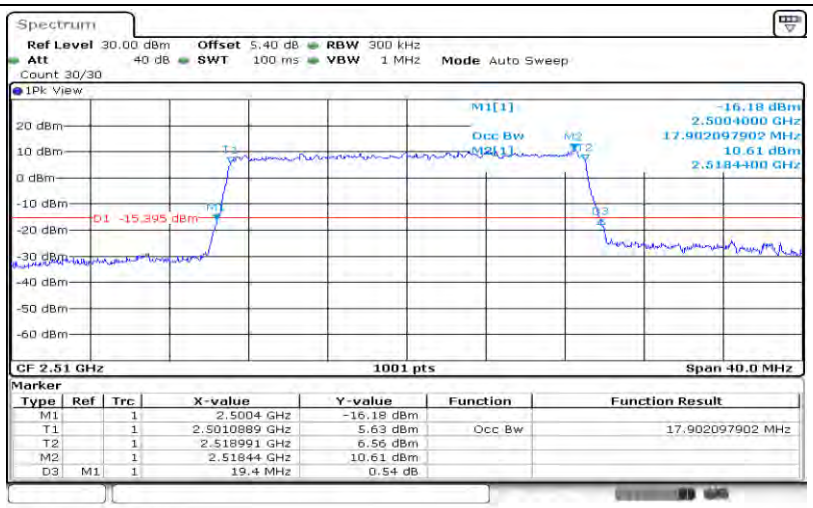

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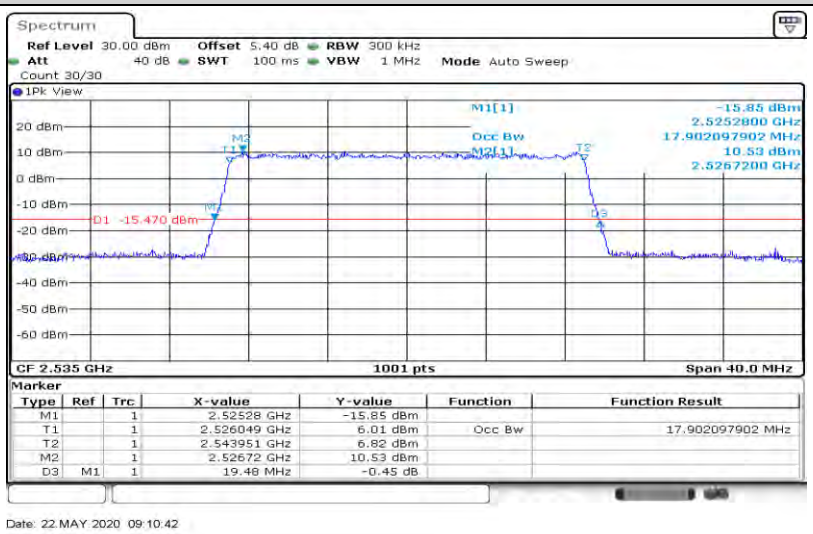

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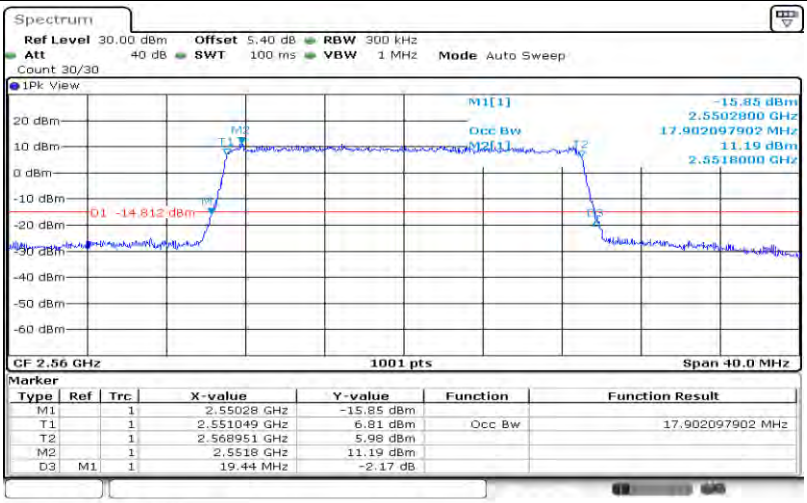

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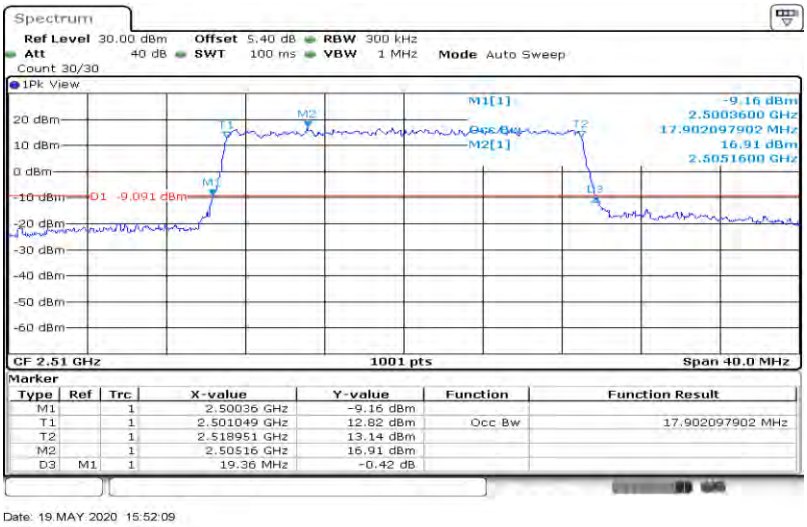

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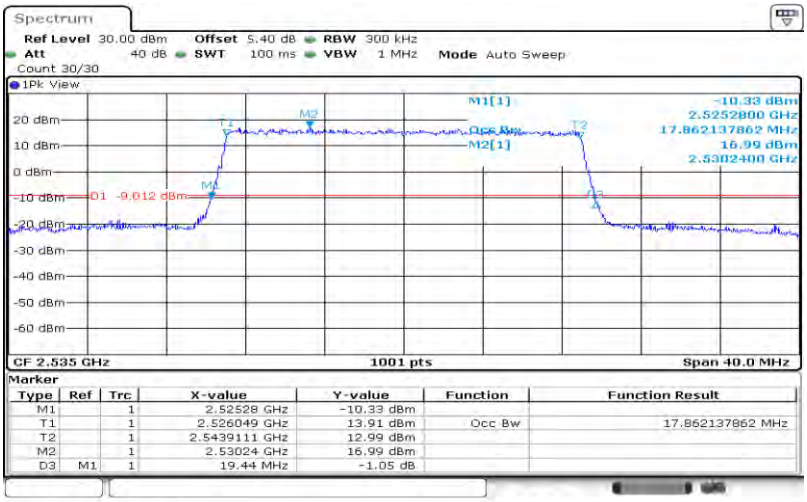

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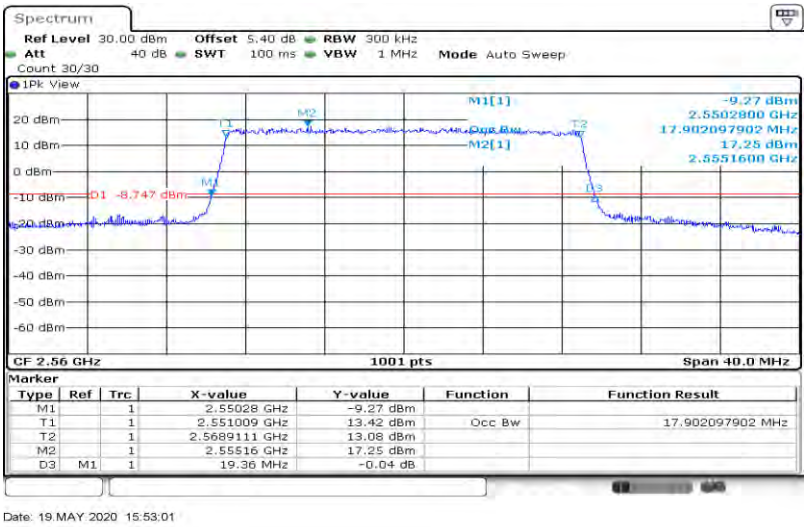

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5. Band Edge Compliance

5.1. Test Plots

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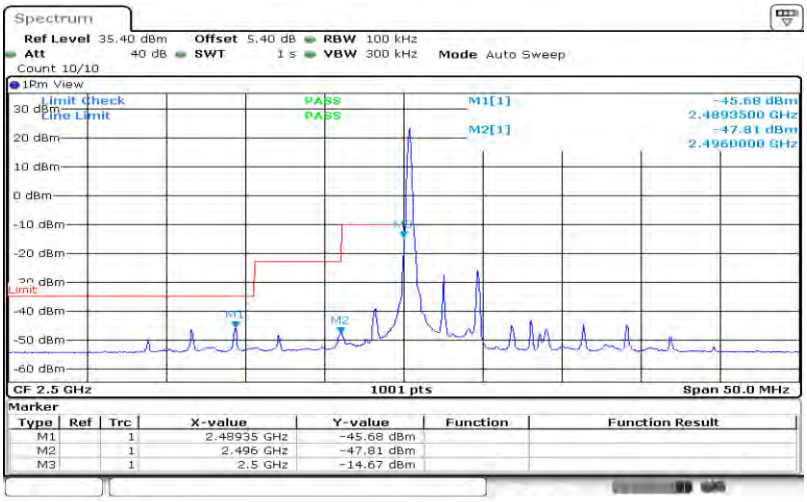
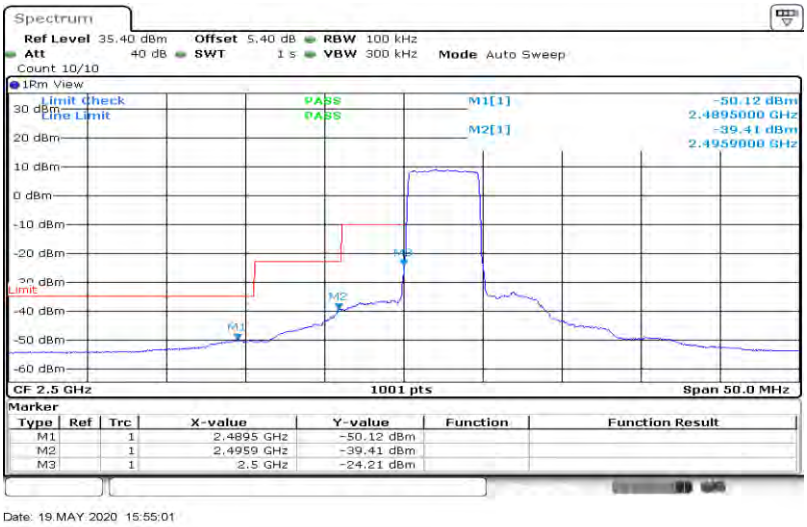


Band7-5MHz-QPSK-20775-25RB#0



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

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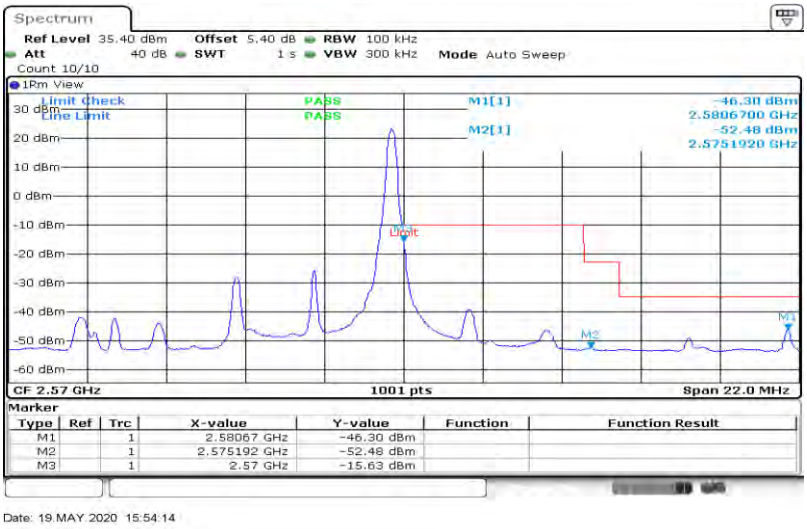

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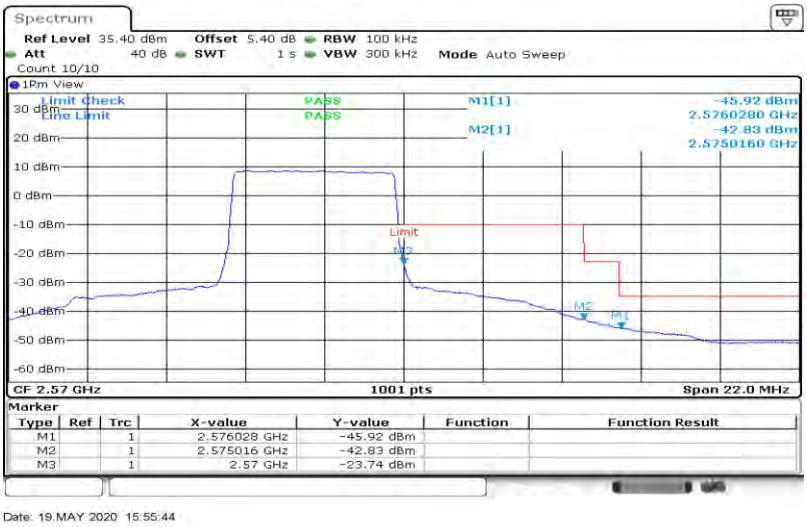

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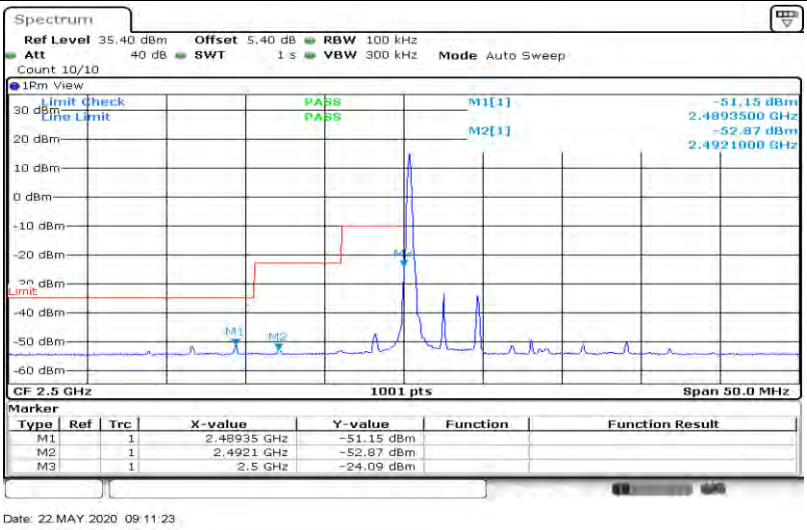

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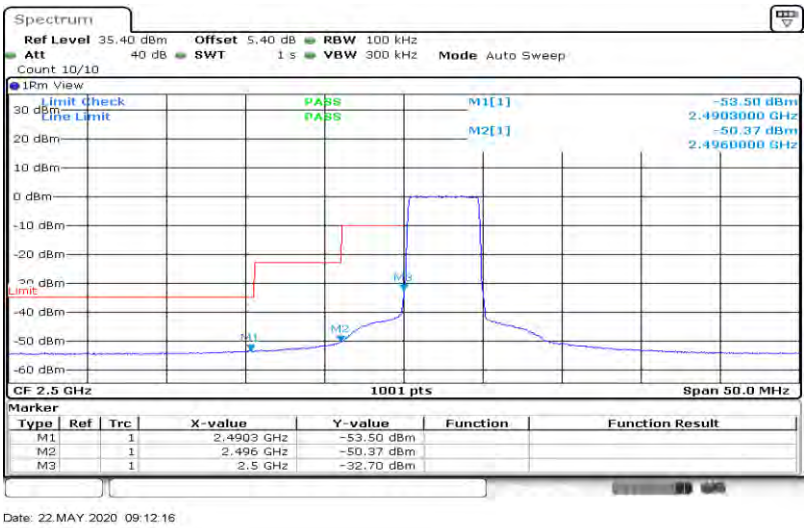

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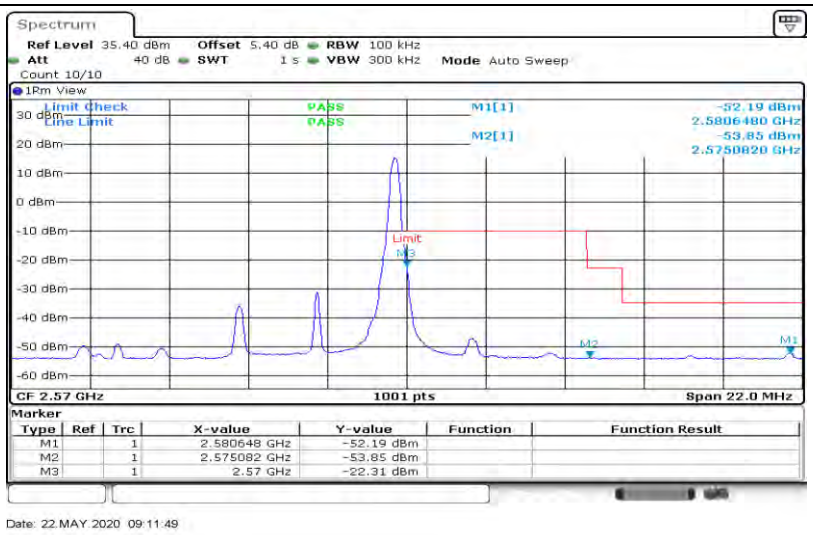

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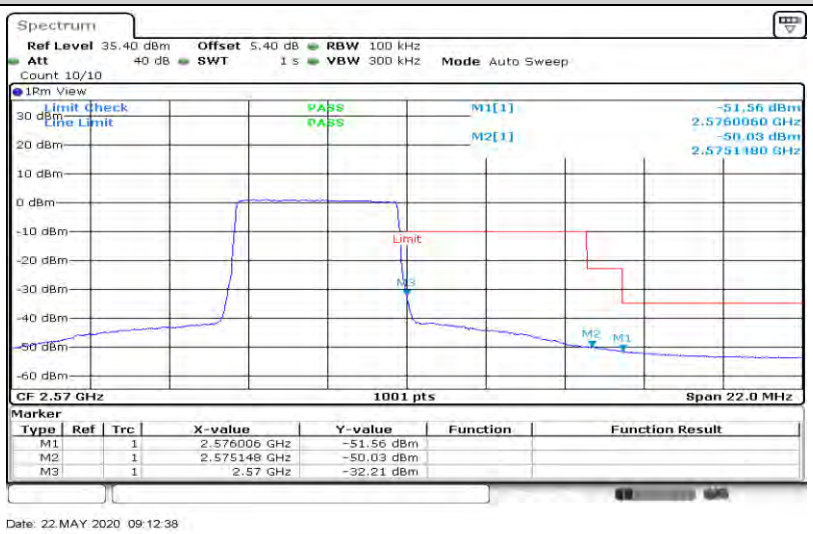

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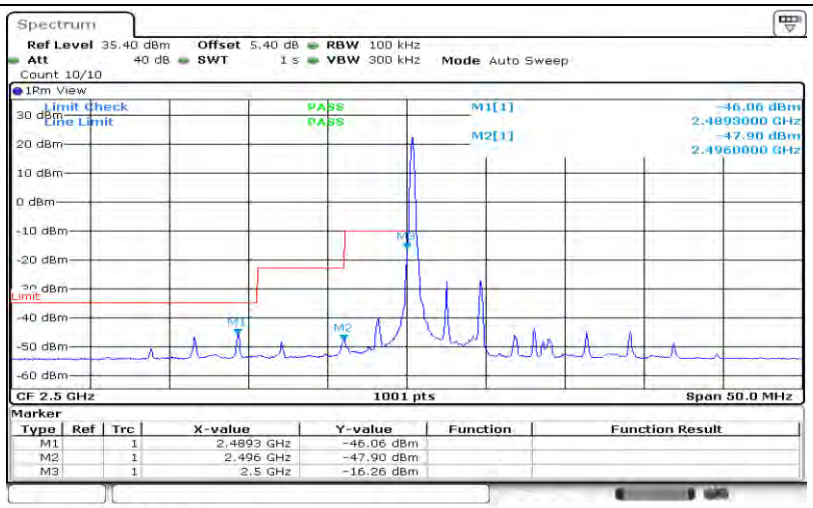

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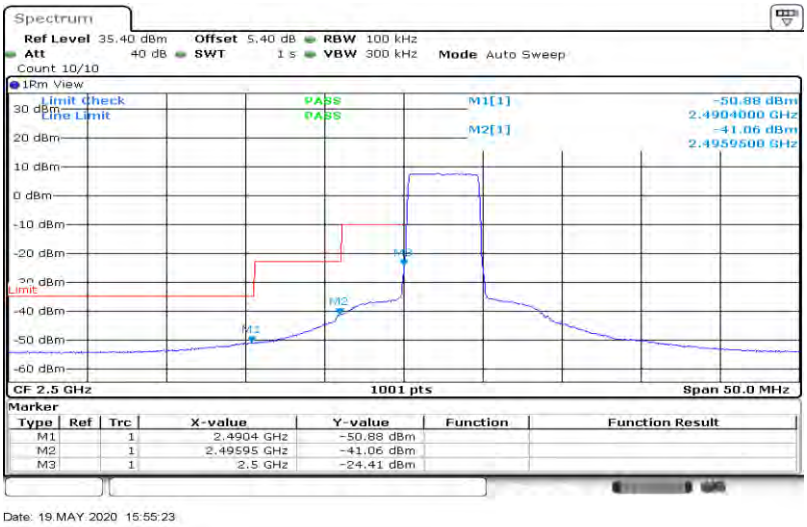

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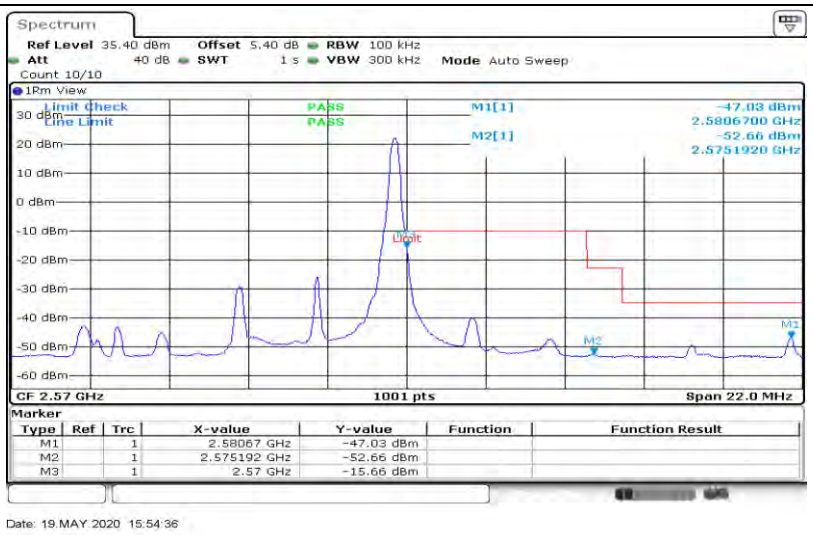

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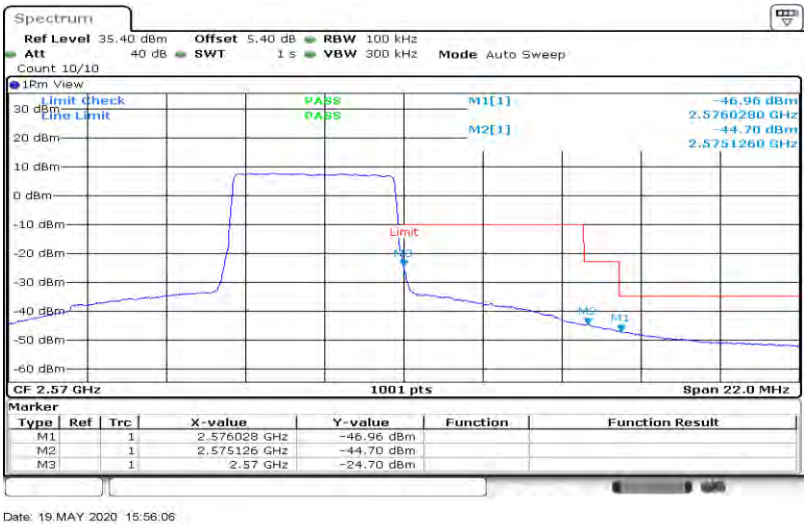

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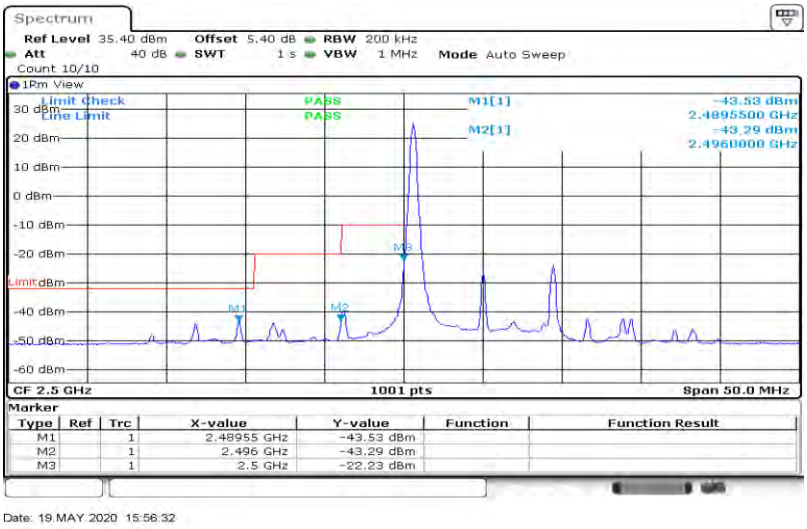

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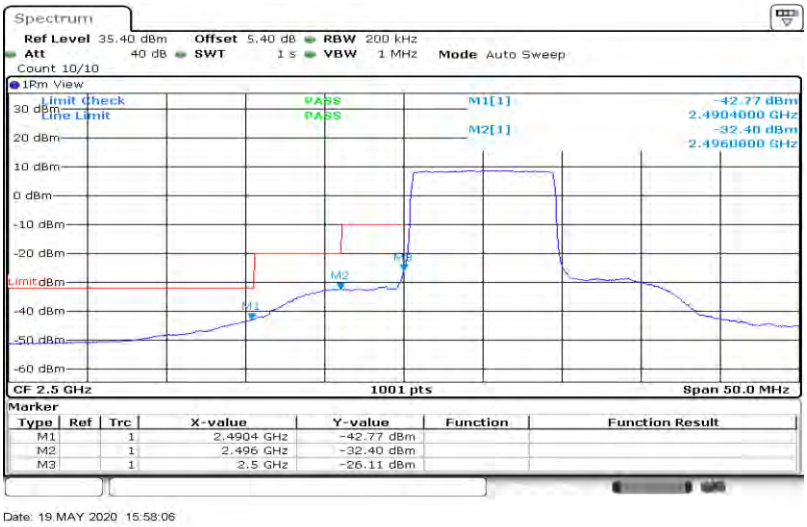

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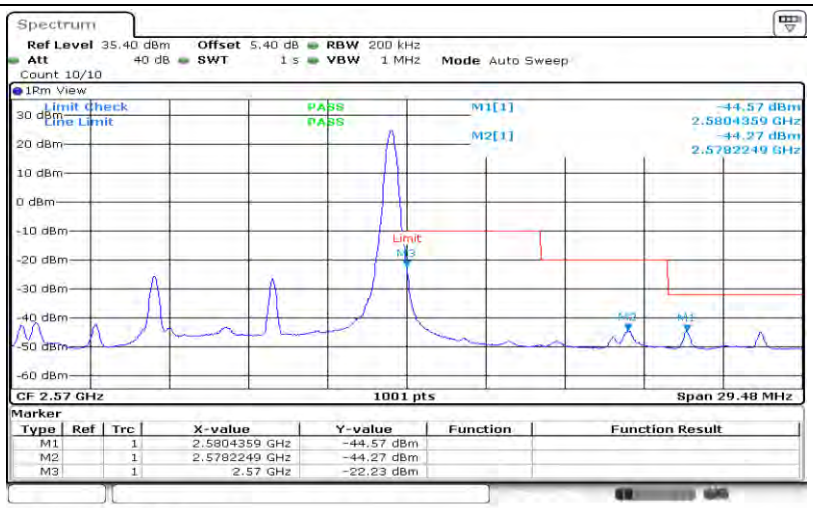

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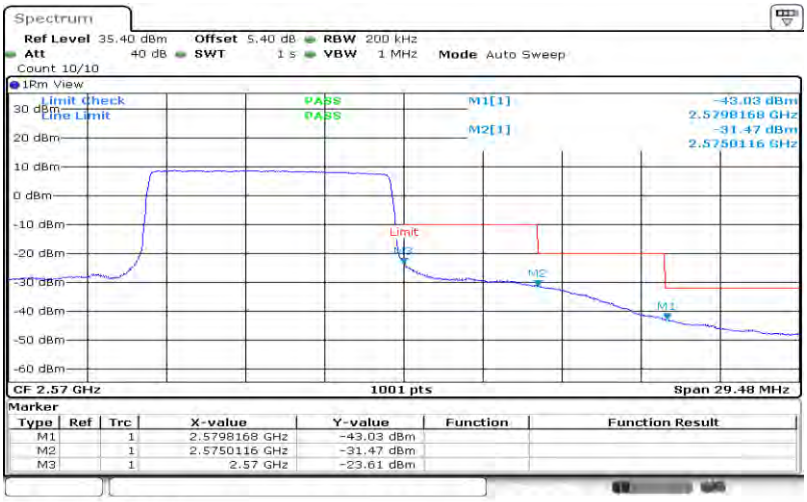

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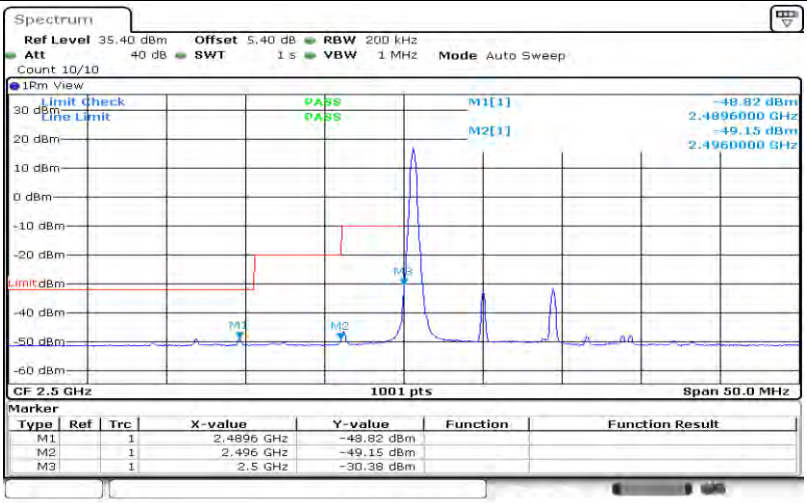

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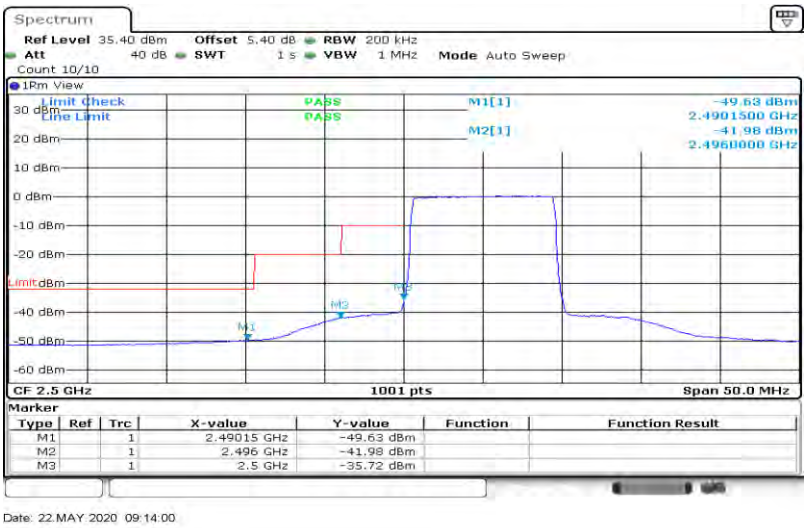

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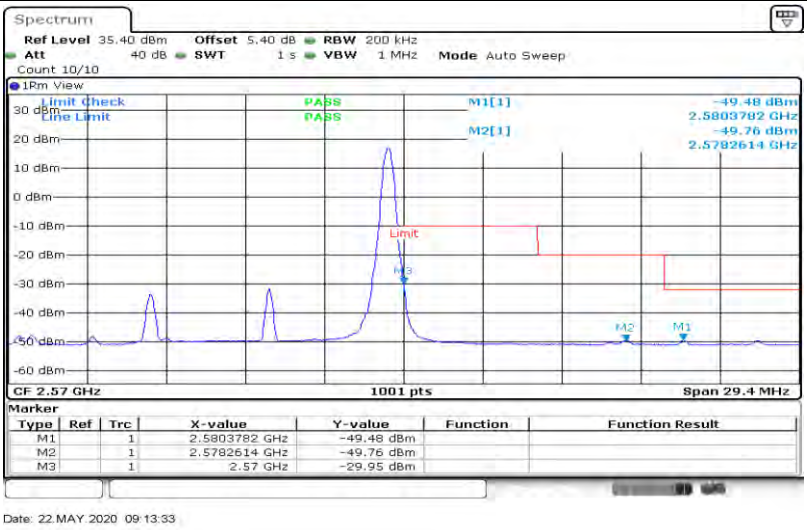

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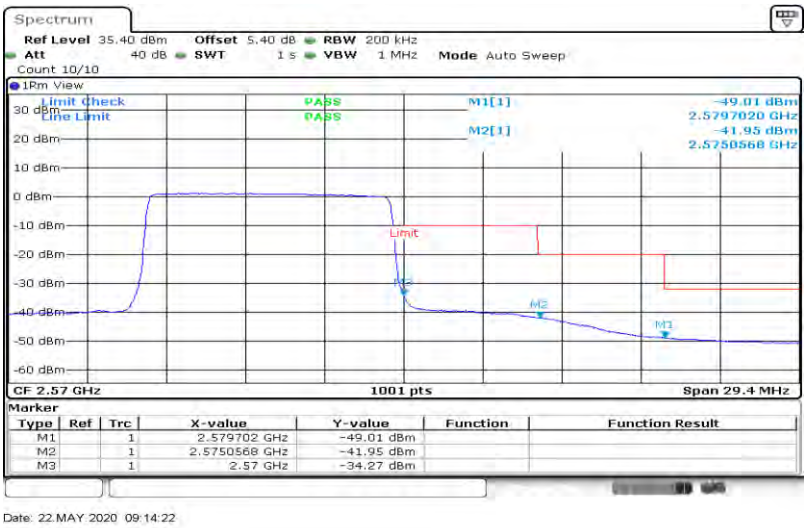

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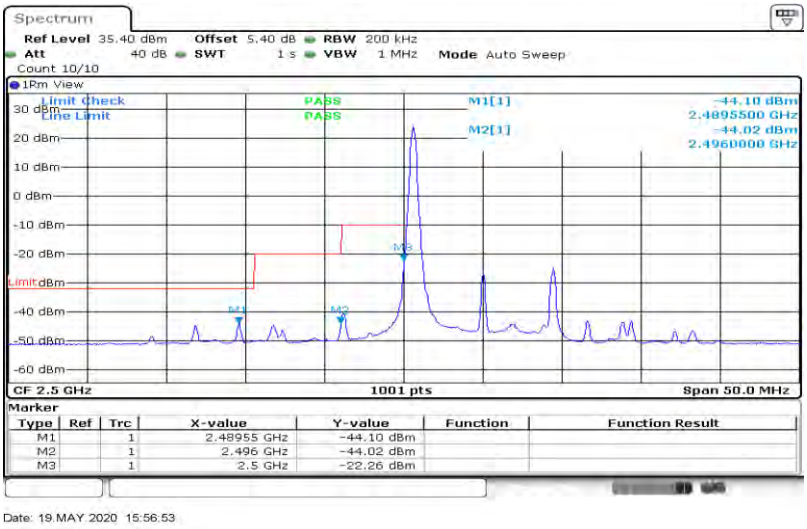

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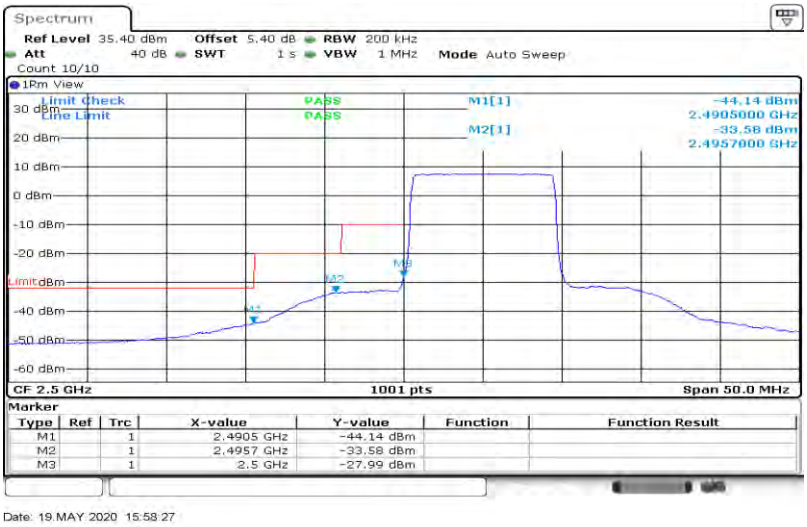

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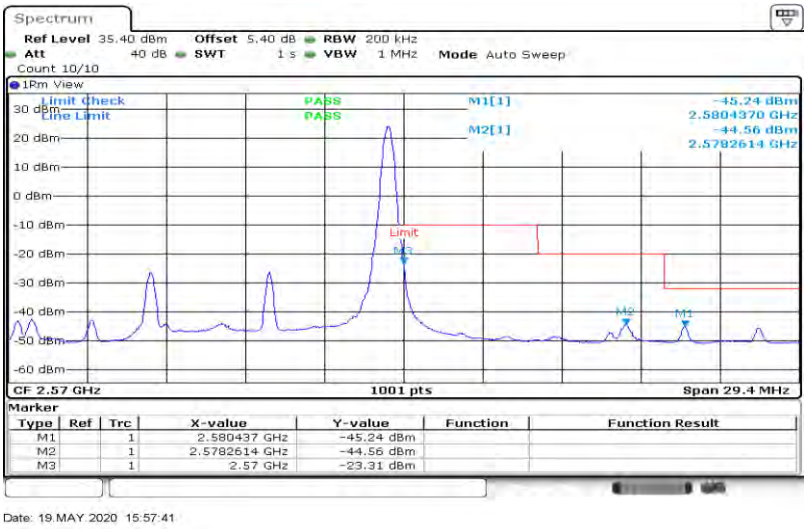

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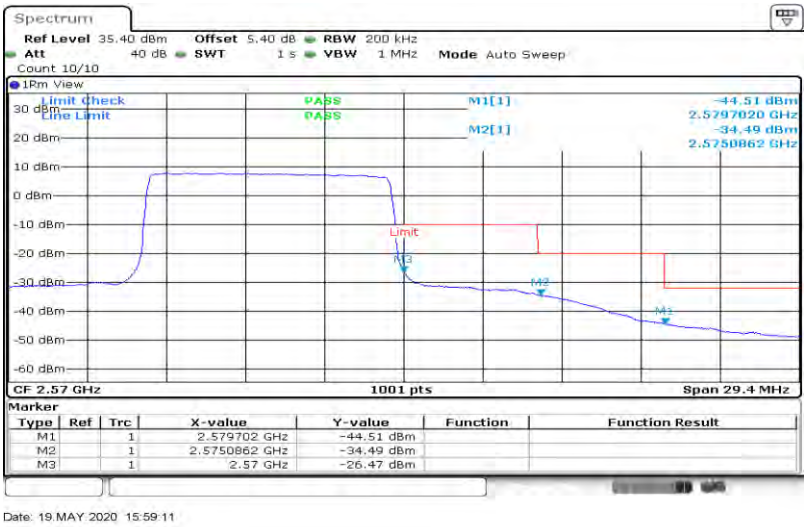

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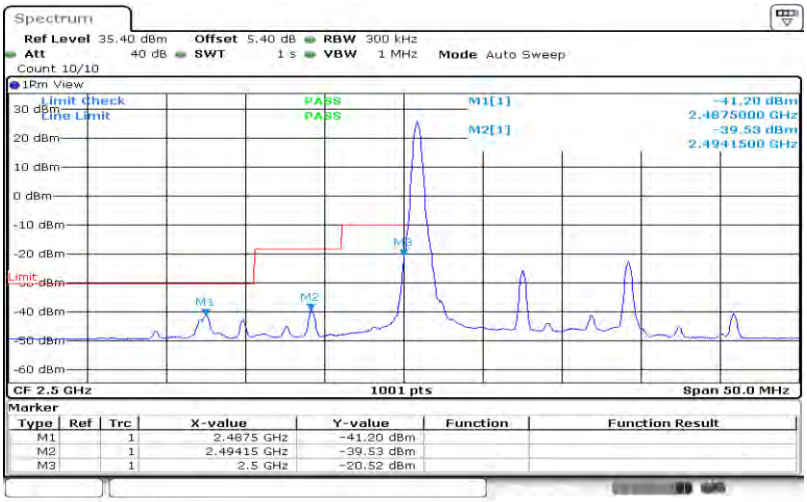

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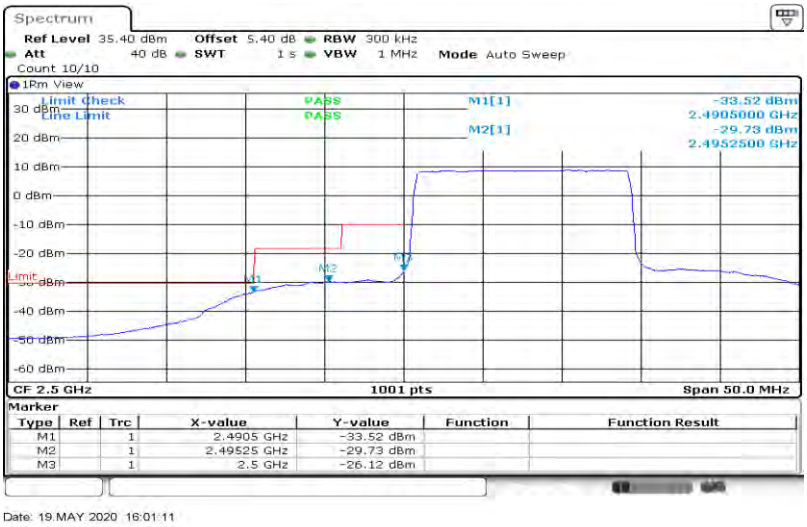

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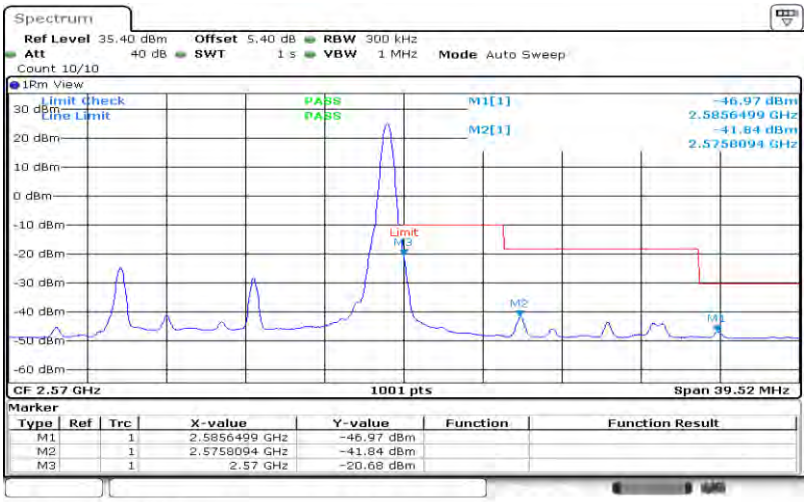

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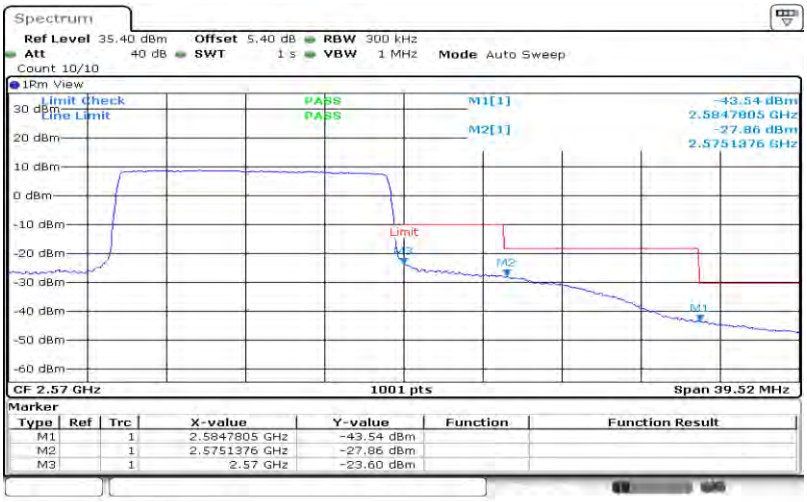

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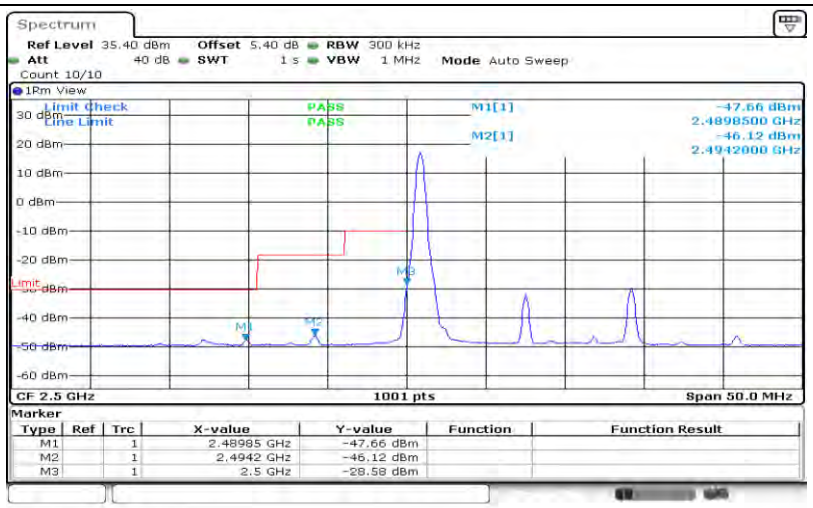

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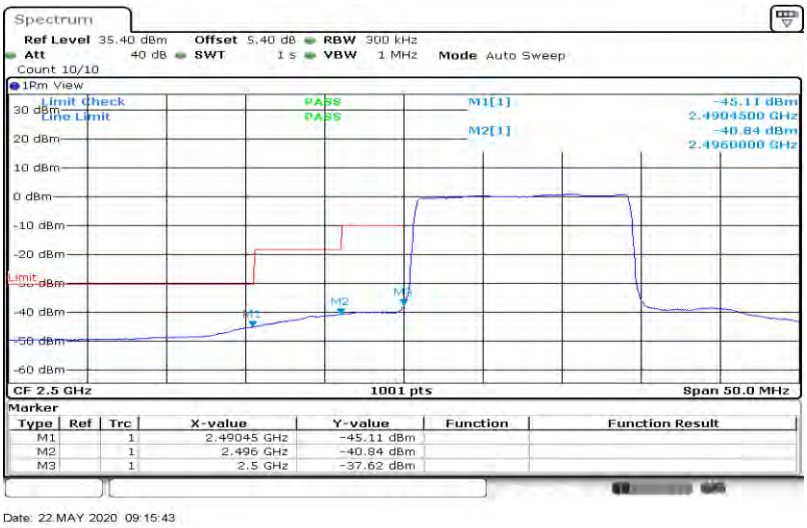

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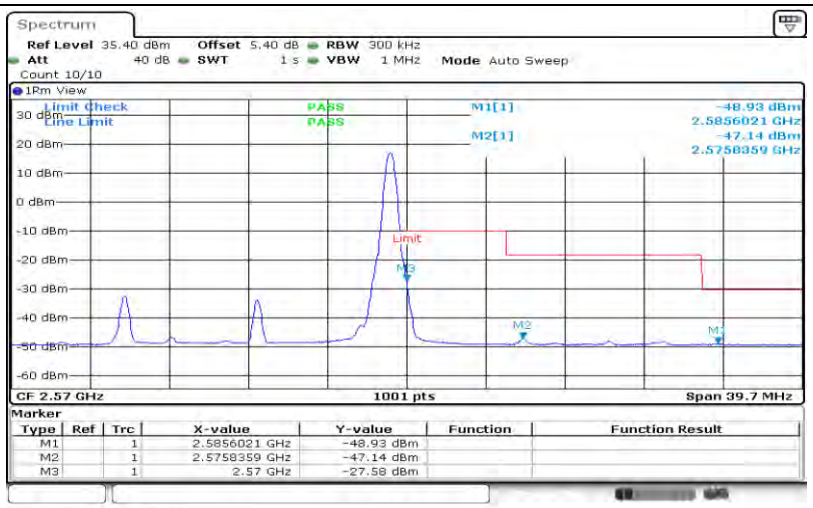

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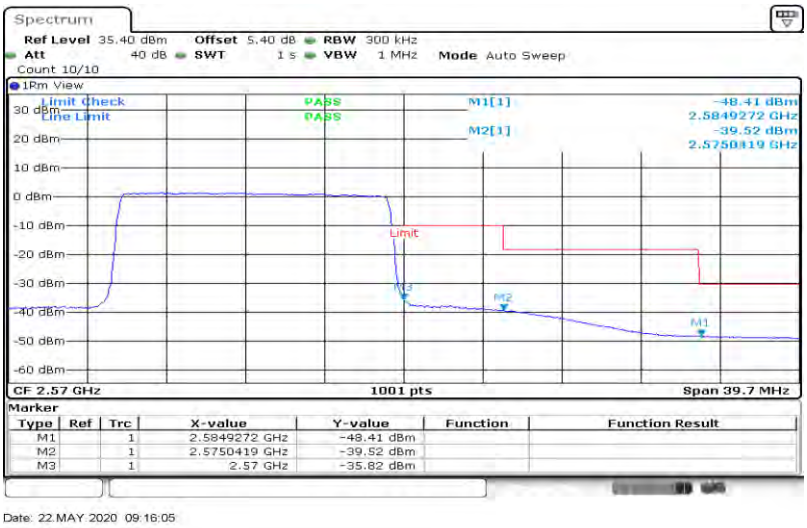

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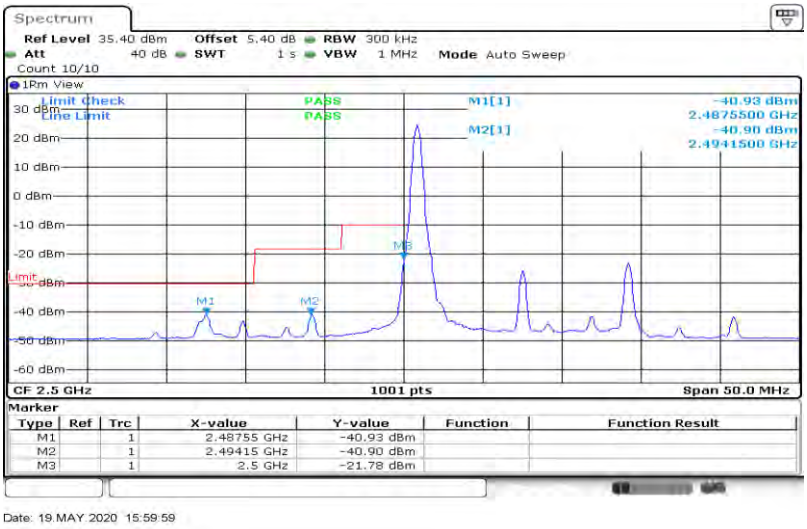

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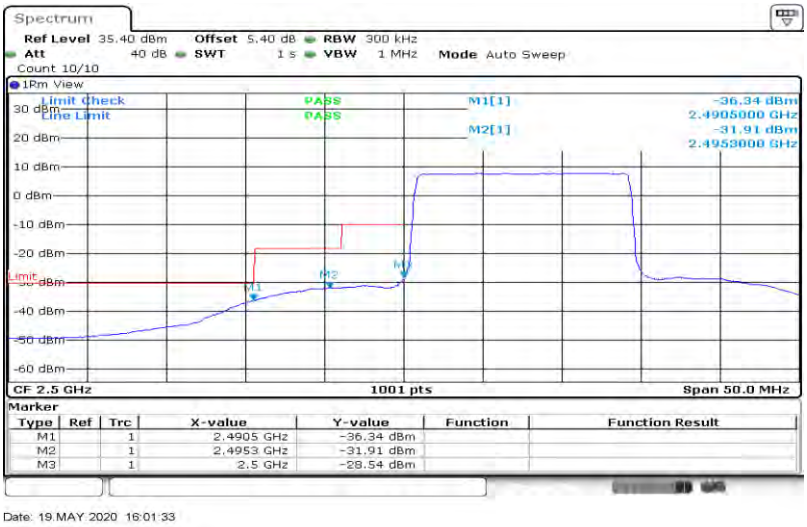

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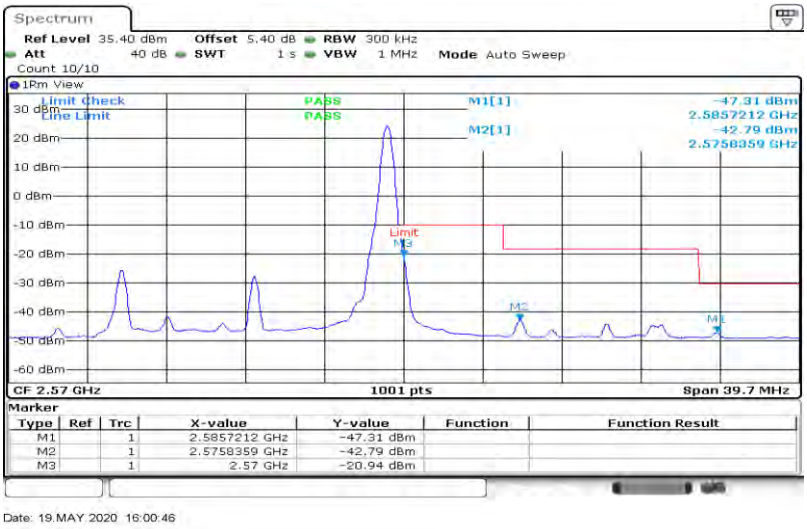
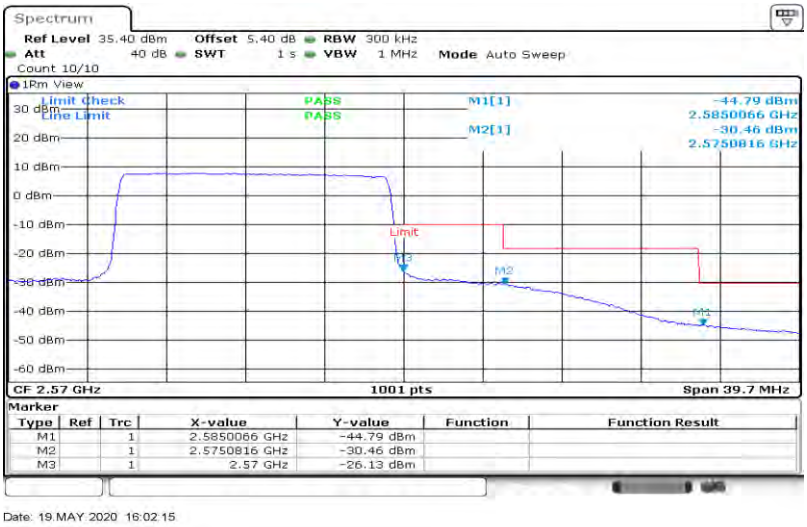


Band7-15MHz-16QAM-21375-75RB#0



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

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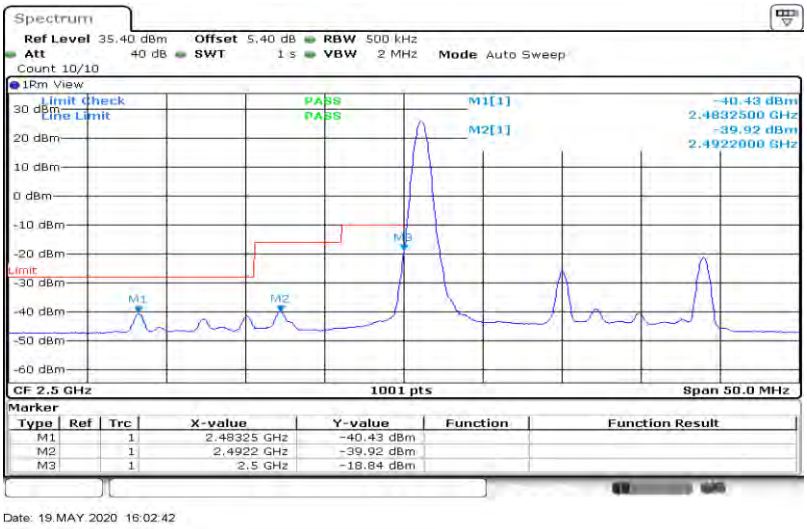
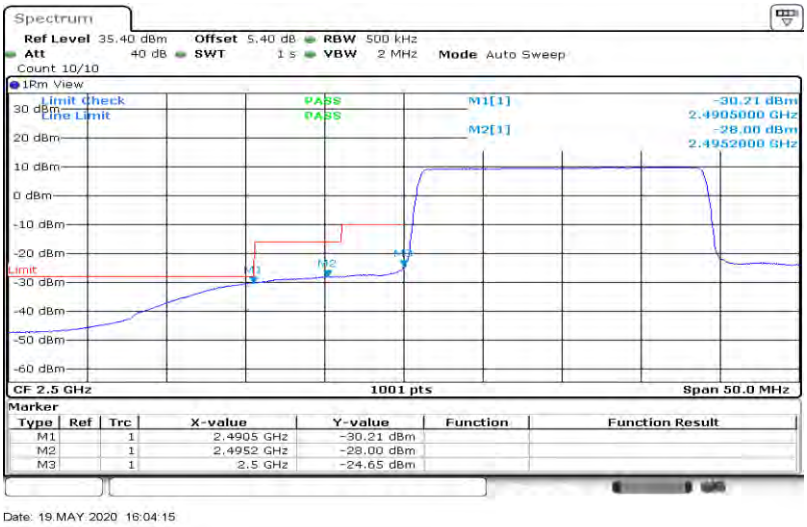


Band7-20MHz-QPSK-20850-100RB#0



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

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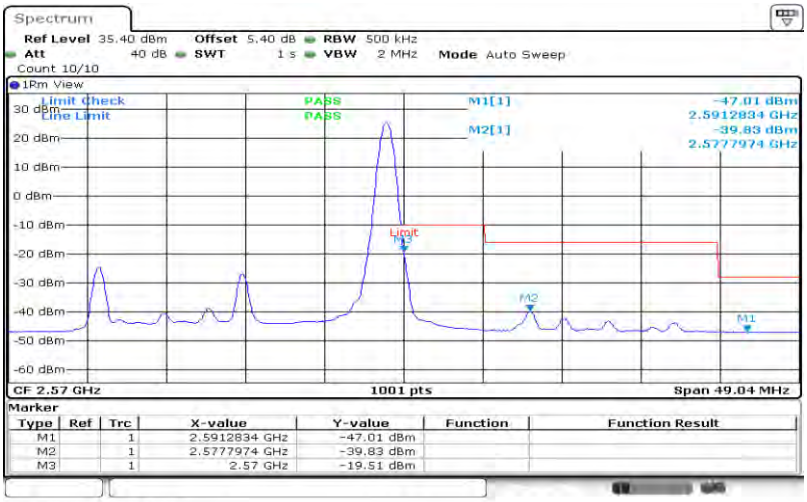
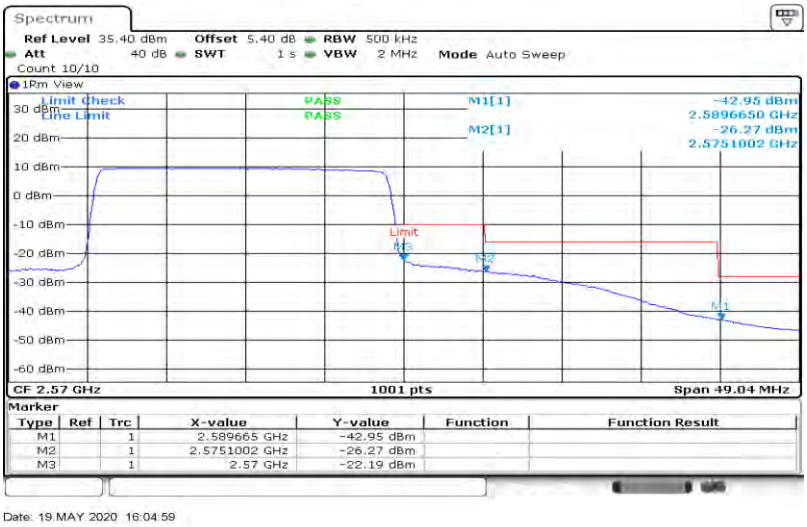


Band7-20MHz-QPSK-21350-100RB#0



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

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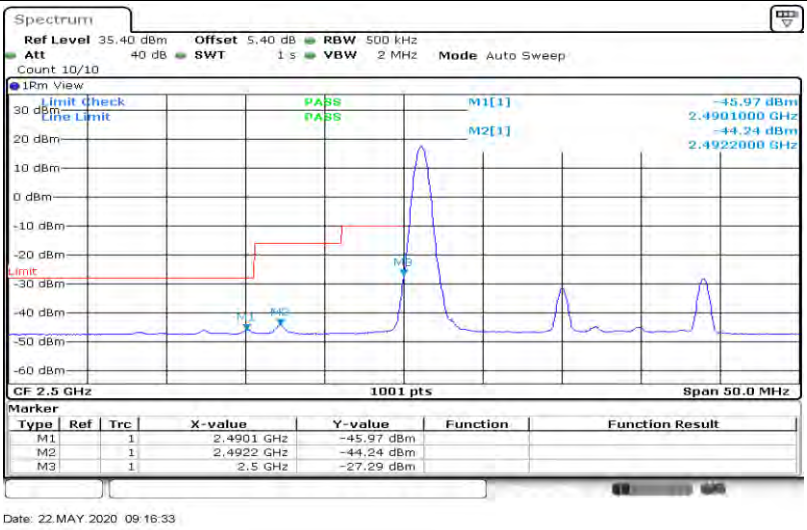
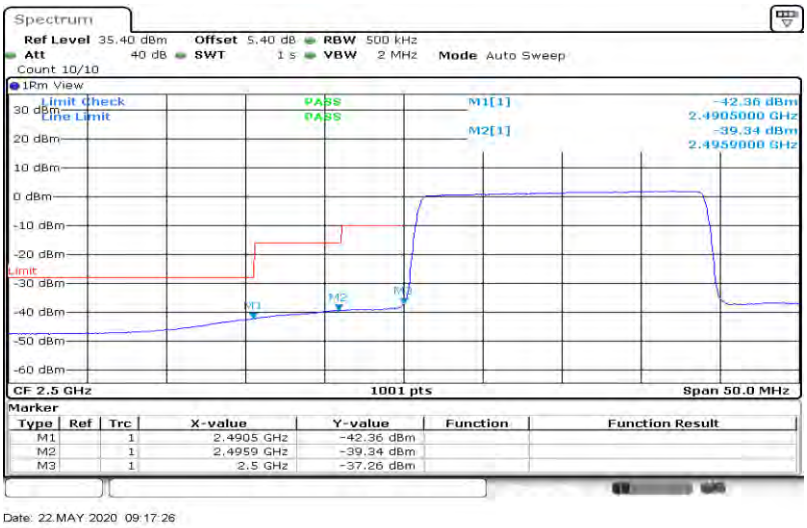


Band7-20MHz-64QAM-20850-100RB#0



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

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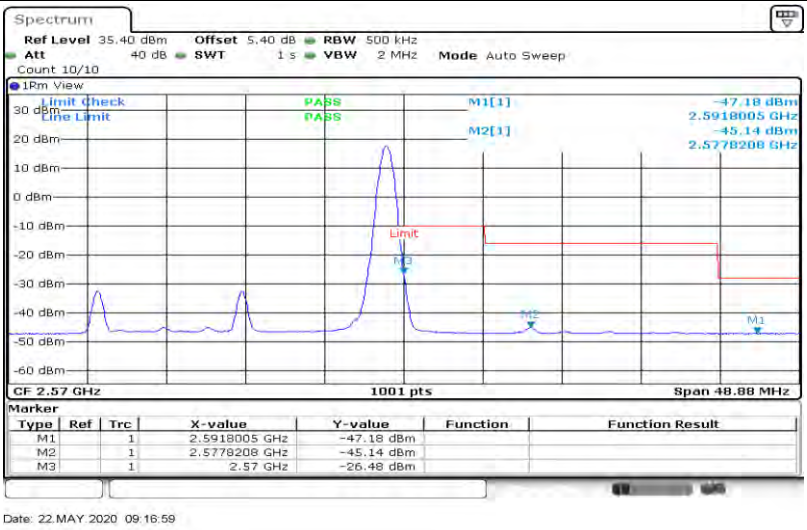
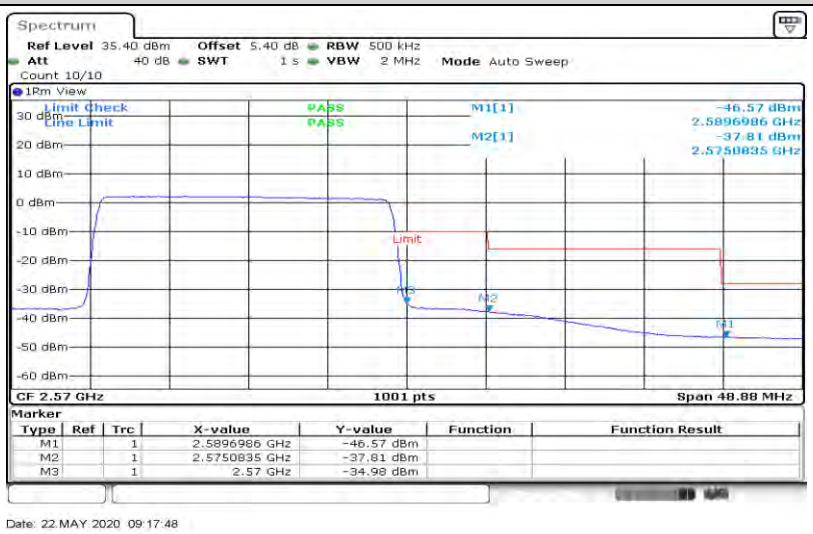


Band7-20MHz-64QAM-21350-100RB#0



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

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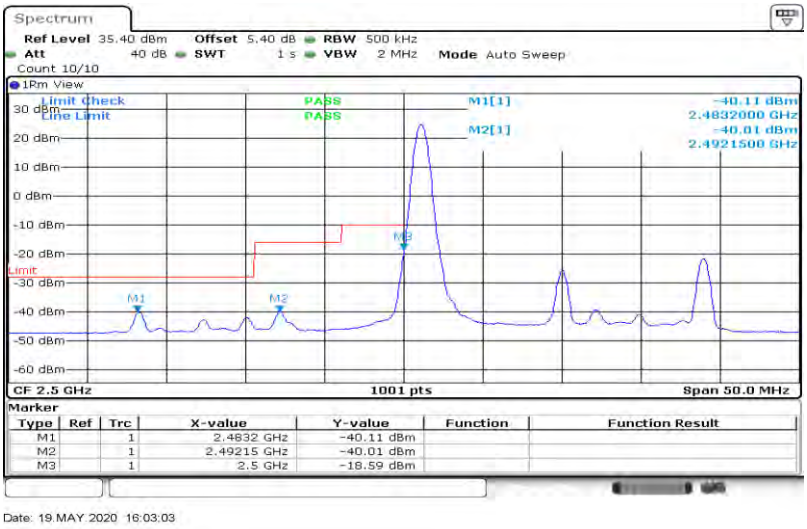

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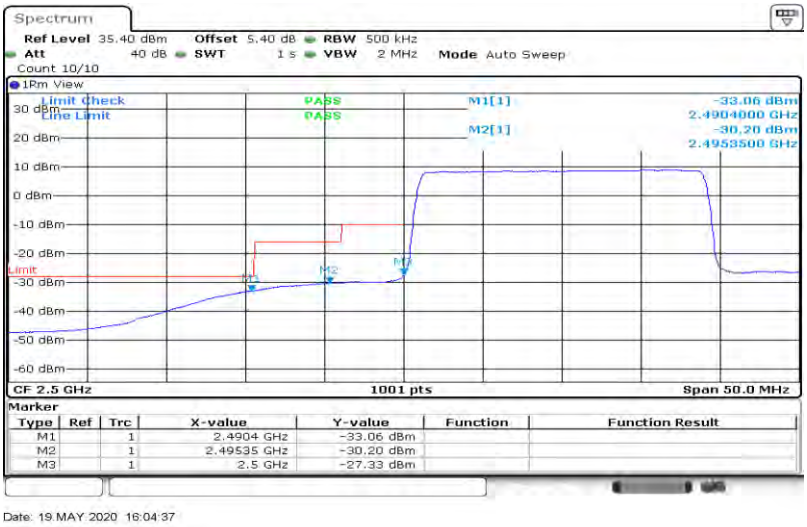

Band7-20MHz-16QAM-21350-1RB#99

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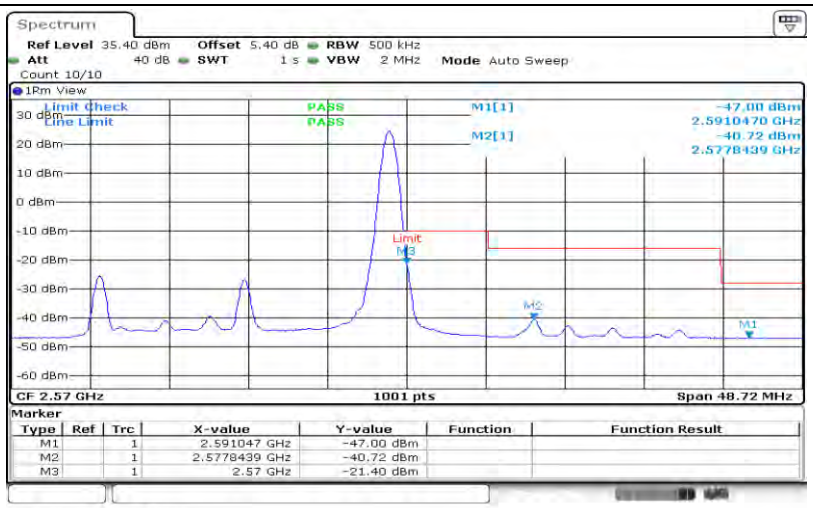

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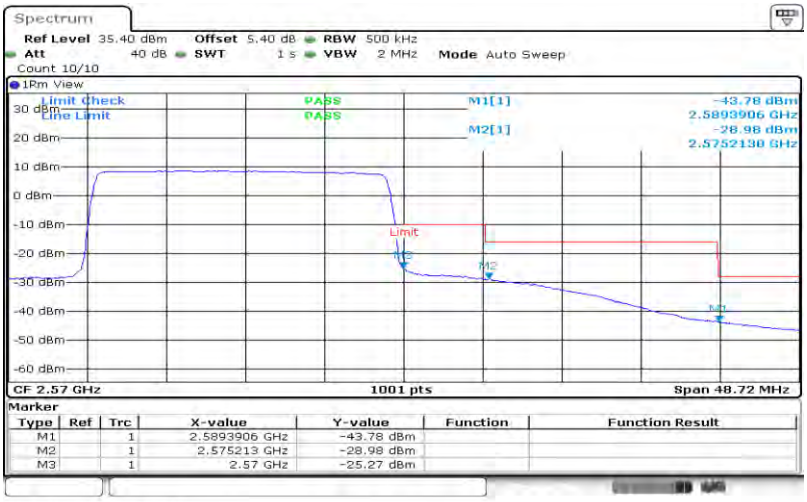
Band7-20MHz-16QAM-21350-100RB#0



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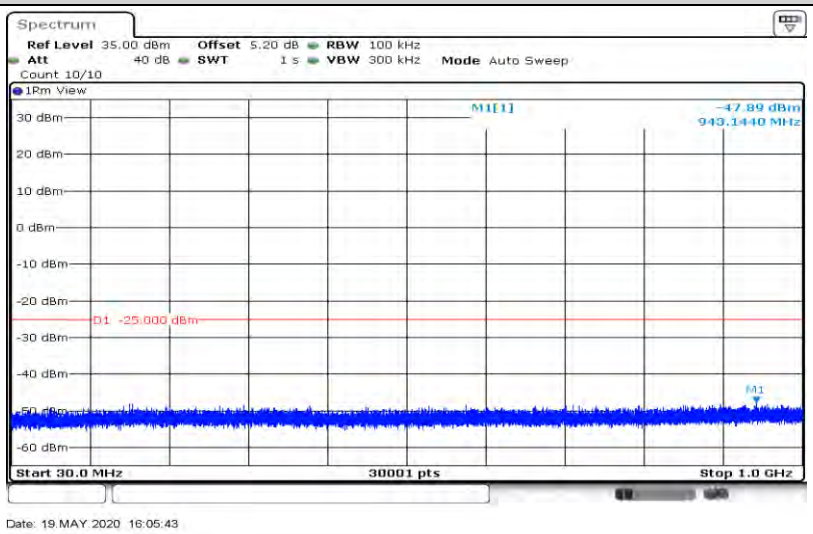
6. Spurious Emission at Antenna Terminal

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.

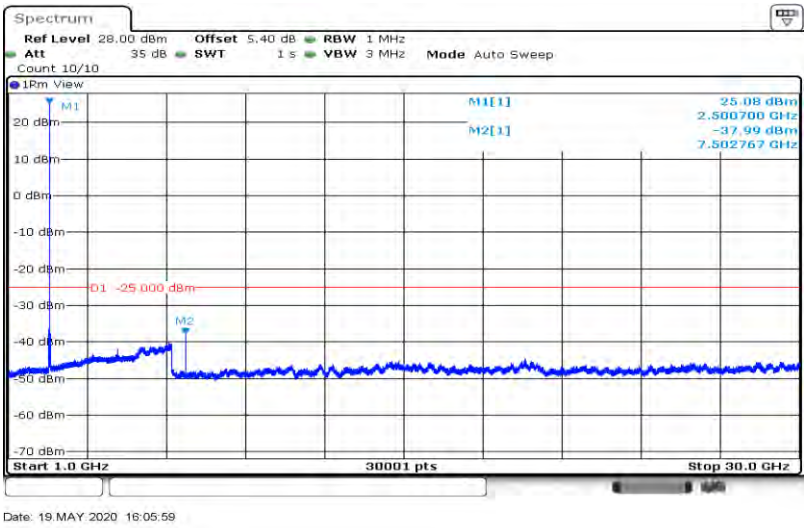
Remark2: only the worst case data displayed in this report.

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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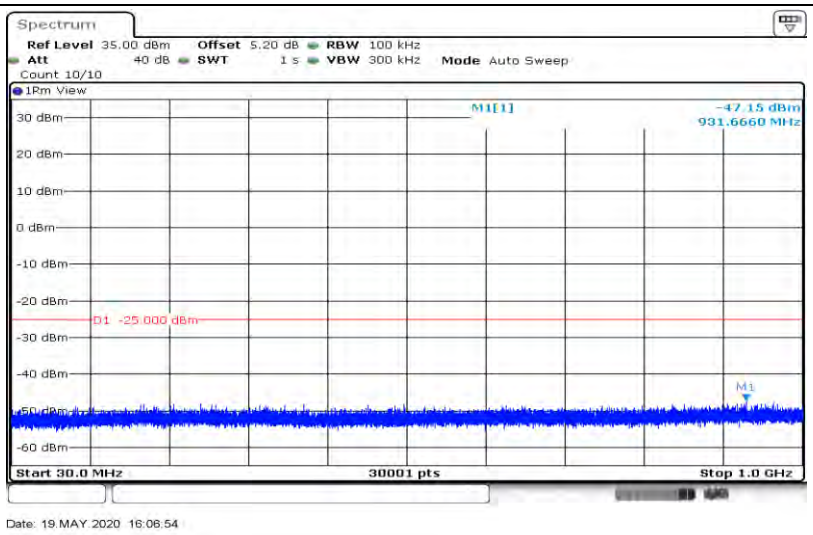
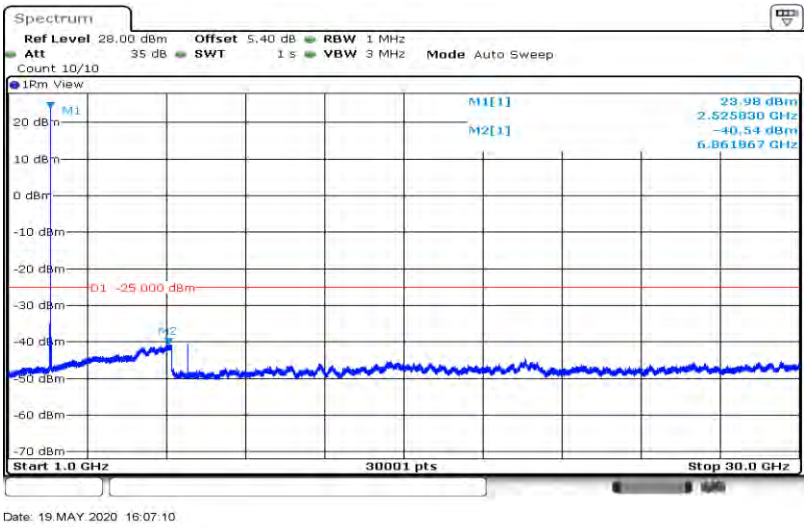


Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



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

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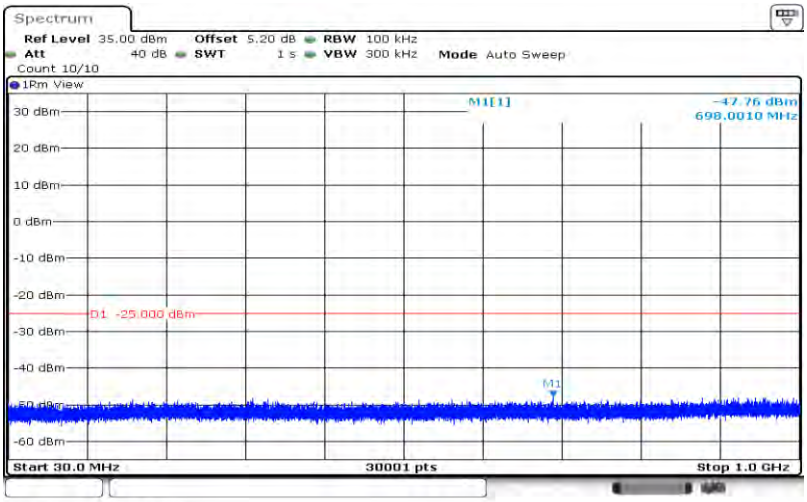

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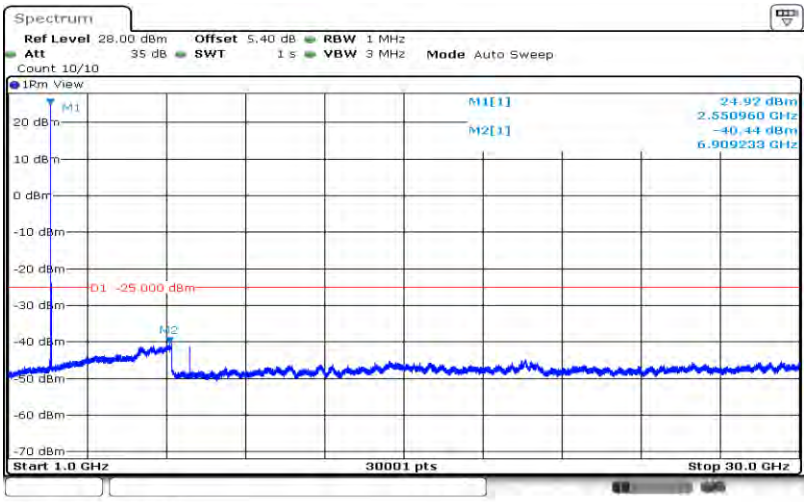

Date: 19.MAY 2020 16:08:21

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

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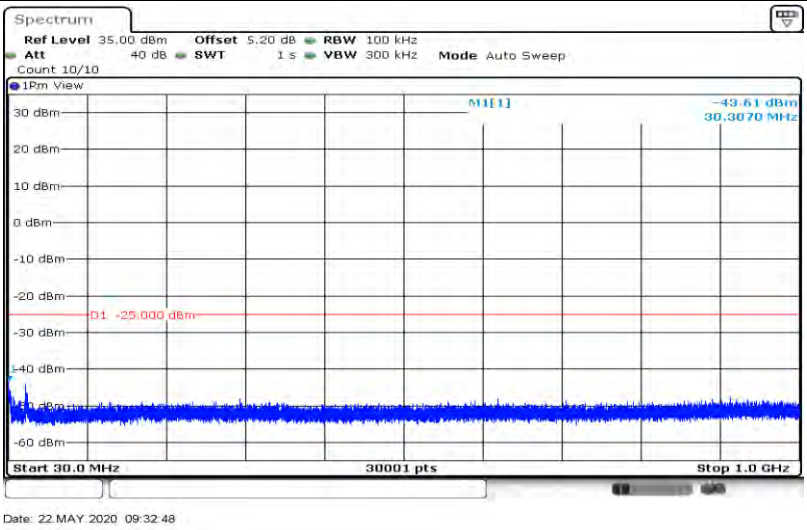
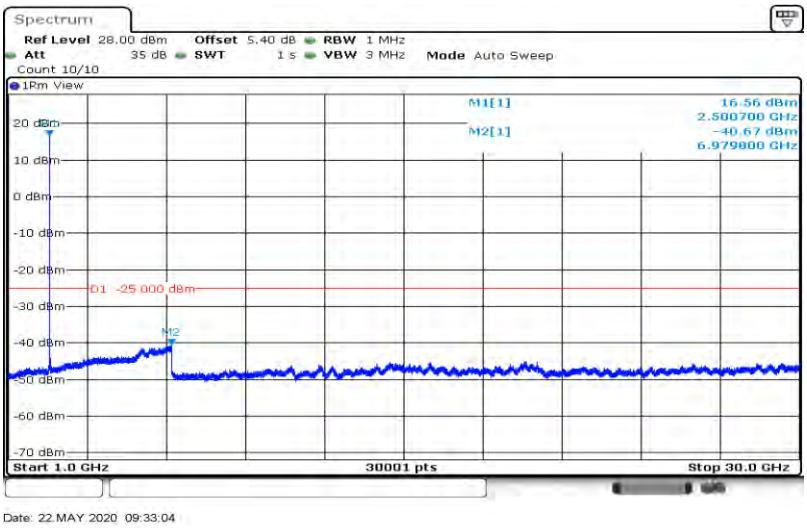


Band7-20MHz-64QAM-20850-1RB#0-Range2:1000~30000MHz



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

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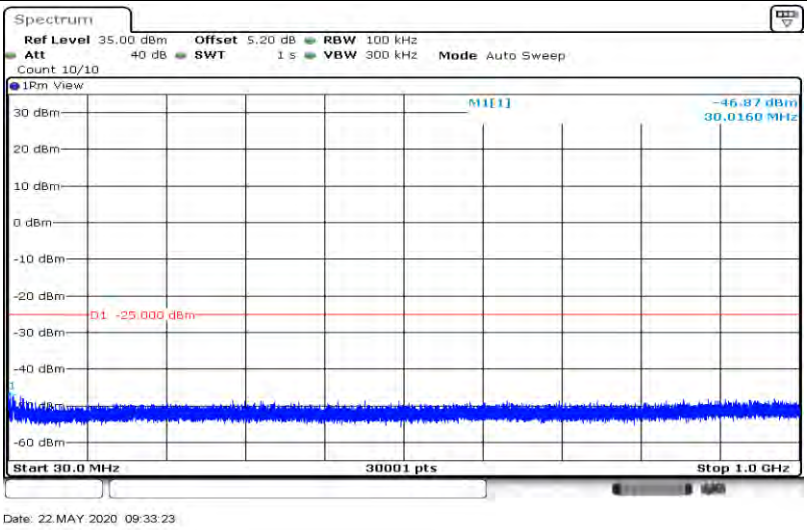

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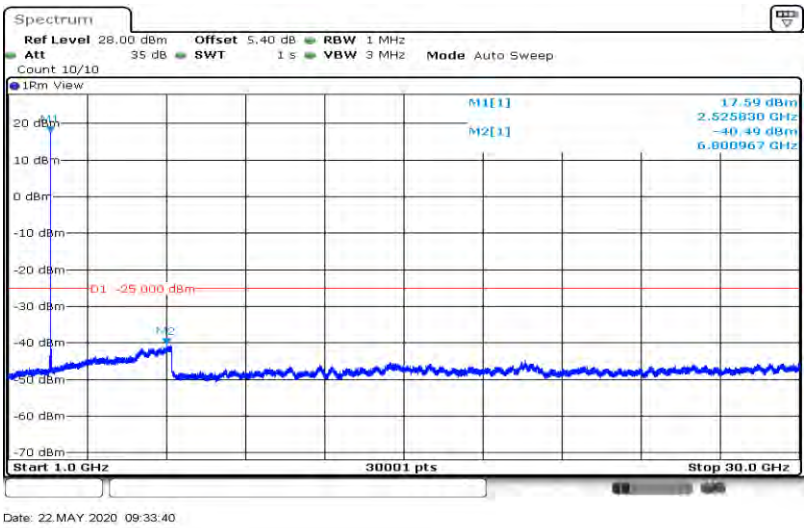

Band7-20MHz-64QAM-21350-1RB#0-Range1:30~1000MHz

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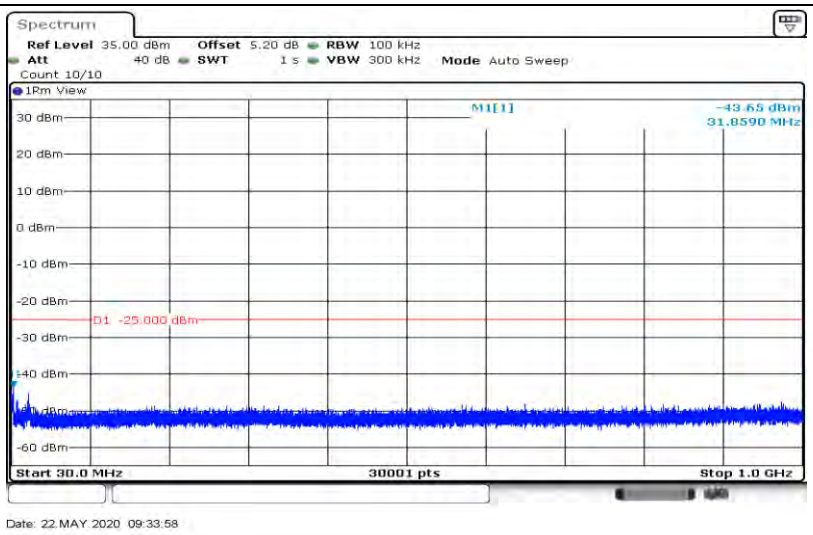
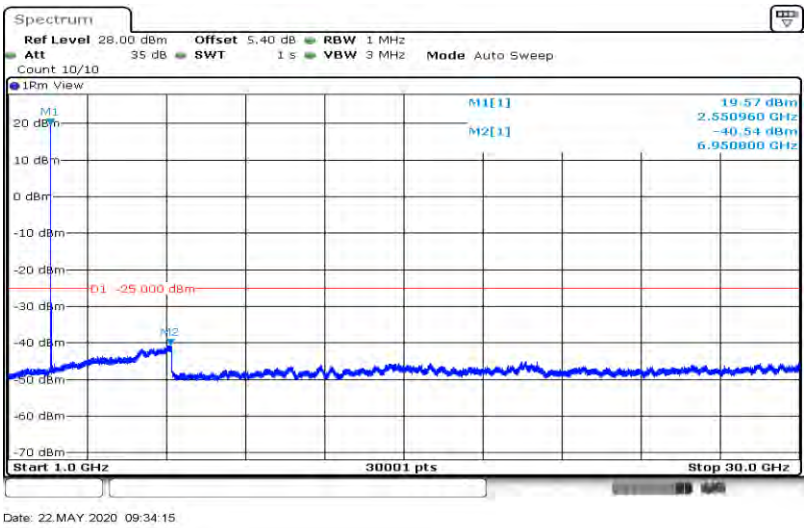


Band7-20MHz-64QAM-21350-1RB#0-Range2:1000~30000MHz



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

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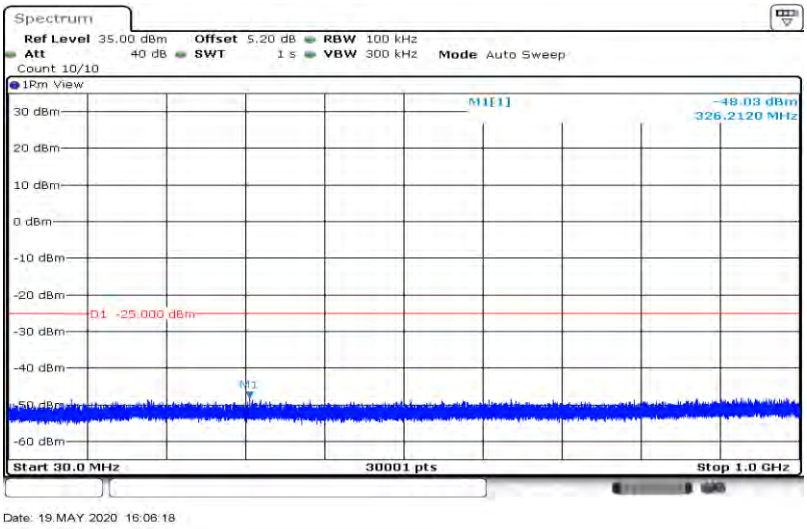
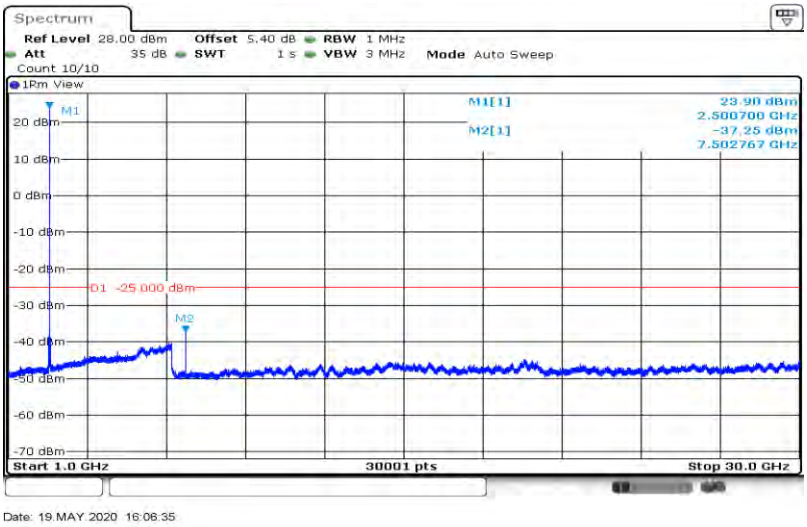


Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz



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

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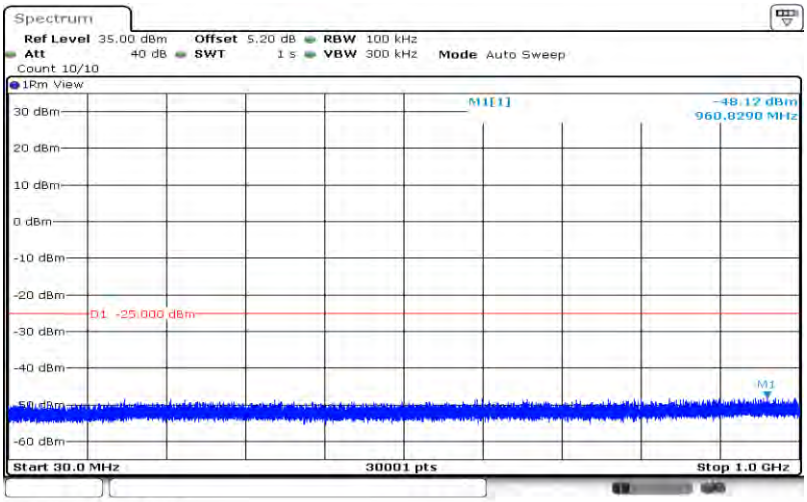

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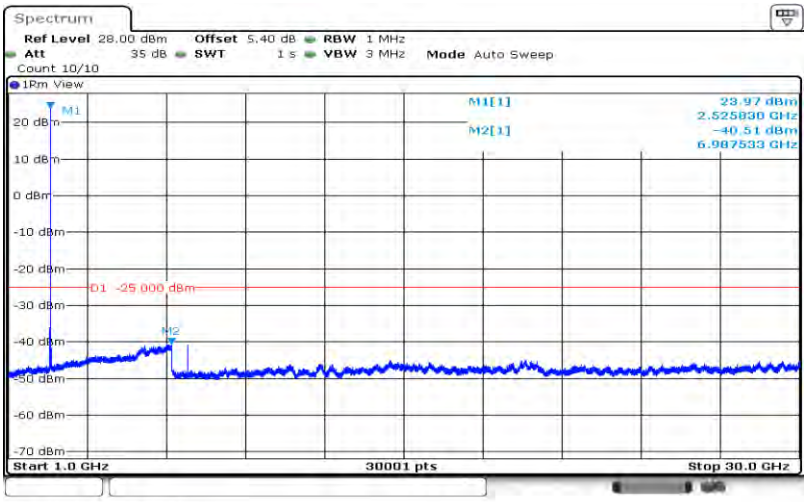
Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



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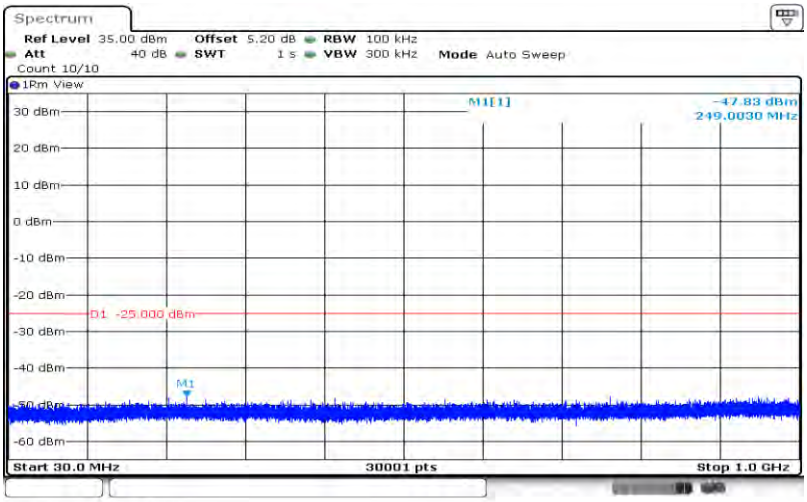

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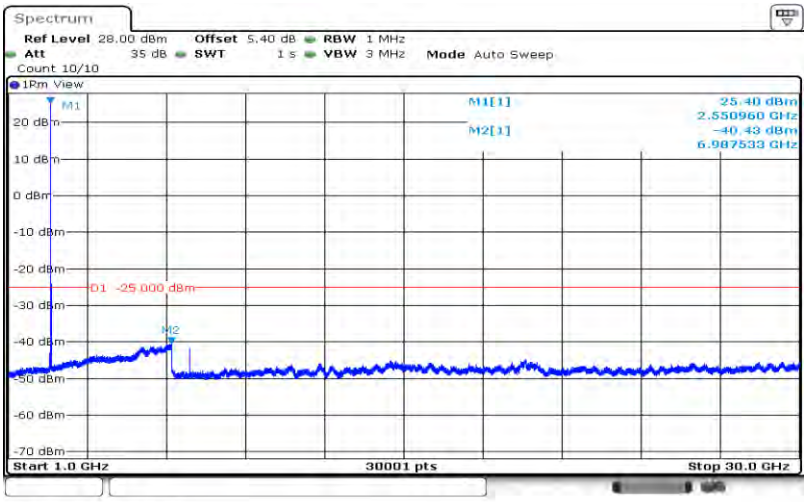
Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz



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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)	Polarization
116.2373	-65.59	-25.00	40.59	Vertical
647.1934	-64.73	-25.00	39.73	Vertical
1702.9406	-45.51	-25.00	20.51	Vertical
5002.2801	-59.46	-25.00	34.46	Vertical
14518.6607	-49.98	-25.00	24.98	Vertical
17995.7998	-42.06	-25.00	17.06	Vertical
43.8232	-64.40	-25.00	39.40	Horizontal
753.6562	-62.43	-25.00	37.43	Horizontal
1807.3615	-44.58	-25.00	19.58	Horizontal
5002.2801	-62.38	-25.00	37.38	Horizontal
16409.9364	-46.11	-25.00	21.11	Horizontal
17994.5998	-47.54	-25.00	22.54	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.5625	-65.61	-25.00	40.61	Vertical
649.6670	-64.63	-25.00	39.63	Vertical
1788.1576	-45.30	-25.00	20.30	Vertical
5052.0821	-59.17	-25.00	34.17	Vertical
14491.0596	-50.41	-25.00	25.41	Vertical
17997.5999	-42.45	-25.00	17.45	Vertical
39.8460	-65.10	-25.00	40.10	Horizontal
557.0759	-66.06	-25.00	41.06	Horizontal
1796.9594	-44.50	-25.00	19.50	Horizontal
5052.0821	-62.34	-25.00	37.34	Horizontal
16406.9363	-46.24	-25.00	21.24	Horizontal
17997.5999	-47.08	-25.00	22.08	Horizontal

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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
117.4014	-65.34	-25.00	40.34	Vertical
654.9537	-64.10	-25.00	39.10	Vertical
1729.3459	-45.29	-25.00	20.29	Vertical
5101.8841	-61.51	-25.00	36.51	Vertical
14530.0612	-50.59	-25.00	25.59	Vertical
17994.5998	-42.62	-25.00	17.62	Vertical
44.5992	-63.85	-25.00	38.85	Horizontal
1801.3603	-44.42	-25.00	19.42	Horizontal
5102.4841	-63.30	-25.00	38.30	Horizontal
7453.3781	-59.19	-25.00	34.19	Horizontal
16381.7353	-46.70	-25.00	21.70	Horizontal
17996.3999	-47.19	-25.00	22.19	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 (℃)	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 (℃)	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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