



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)	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.20	20.75	30.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.75	21.30	30.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.34	20.89	30.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.79	20.34	30.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.81	20.36	30.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.75	20.30	30.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.78	20.33	30.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.44	20.99	30.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.77	21.32	30.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.62	21.17	30.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.89	20.44	30.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.94	20.49	30.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.92	20.47	30.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.98	20.53	30.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.63	21.18	30.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.86	21.41	30.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.70	21.25	30.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.80	20.35	30.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.70	20.25	30.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.69	20.24	30.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.80	20.35	30.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.39	19.94	30.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.38	20.93	30.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.77	20.32	30.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.75	19.30	30.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.72	19.27	30.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.59	19.14	30.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.78	19.33	30.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.87	20.42	30.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.02	20.57	30.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.14	19.69	30.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.93	19.48	30.00	PASS



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Band7	5MHz	16QAM	21100	12RB#6	20.88	19.43	30.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.81	19.36	30.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.90	19.45	30.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.24	19.79	30.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.35	19.90	30.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.03	19.58	30.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.74	19.29	30.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.88	19.43	30.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.69	19.24	30.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.89	19.44	30.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.29	20.84	30.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.78	21.33	30.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.42	20.97	30.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.88	20.43	30.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.83	20.38	30.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.90	20.45	30.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.90	20.45	30.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.59	21.14	30.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.86	21.41	30.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.63	21.18	30.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.95	20.50	30.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.00	20.55	30.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.93	20.48	30.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.00	20.55	30.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.75	21.30	30.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.95	21.50	30.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.85	21.40	30.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.81	20.36	30.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.81	20.36	30.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.76	20.31	30.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.81	20.36	30.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.46	20.01	30.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.39	20.94	30.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.85	20.40	30.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.88	19.43	30.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.76	19.31	30.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.71	19.26	30.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.82	19.37	30.00	PASS



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Band7	10MHz	16QAM	21100	1RB#0	21.96	20.51	30.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.17	20.72	30.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.16	19.71	30.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.95	19.50	30.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.02	19.57	30.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.89	19.44	30.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.91	19.46	30.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.30	19.85	30.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.50	20.05	30.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.12	19.67	30.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.81	19.36	30.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.01	19.56	30.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.81	19.36	30.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.96	19.51	30.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.76	21.31	30.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.72	21.27	30.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.77	21.32	30.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	21.87	20.42	30.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	21.87	20.42	30.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	21.80	20.35	30.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.86	20.41	30.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.86	21.41	30.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.96	21.51	30.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.88	21.43	30.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	21.93	20.48	30.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	21.90	20.45	30.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	21.98	20.53	30.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.01	20.56	30.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.10	21.65	30.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.96	21.51	30.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.65	21.20	30.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.05	20.60	30.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	21.89	20.44	30.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.76	20.31	30.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.93	20.48	30.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.09	19.64	30.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.41	19.96	30.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.27	19.82	30.00	PASS



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Band7	15MHz	16QAM	20825	36RB#0	20.87	19.42	30.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	20.97	19.52	30.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	20.72	19.27	30.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.90	19.45	30.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.33	19.88	30.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.68	20.23	30.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.47	20.02	30.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.07	19.62	30.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	20.91	19.46	30.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	20.88	19.43	30.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.05	19.60	30.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.31	20.86	30.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.22	20.77	30.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.39	19.94	30.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	20.99	19.54	30.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	20.91	19.46	30.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.77	19.32	30.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.86	19.41	30.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.53	21.08	30.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.69	21.24	30.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.50	21.05	30.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.93	20.48	30.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	21.81	20.36	30.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.80	20.35	30.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.82	20.37	30.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.64	21.19	30.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.17	21.72	30.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.72	21.27	30.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.12	20.67	30.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.90	20.45	30.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.82	20.37	30.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.96	20.51	30.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.88	21.43	30.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.91	21.46	30.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.79	21.34	30.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.91	20.46	30.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.03	20.58	30.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.67	20.22	30.00	PASS



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Band7	20MHz	QPSK	21350	100RB#0	21.82	20.37	30.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.62	20.17	30.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.01	20.56	30.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.76	20.31	30.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.88	19.43	30.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.85	19.40	30.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.88	19.43	30.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.77	19.32	30.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.81	20.36	30.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.19	20.74	30.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.59	20.14	30.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.85	19.40	30.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.90	19.45	30.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.80	19.35	30.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.91	19.46	30.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.47	20.02	30.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.50	20.05	30.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.37	19.92	30.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.23	19.78	30.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.03	19.58	30.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.71	19.26	30.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.90	19.45	30.00	PASS

Remark:

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

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



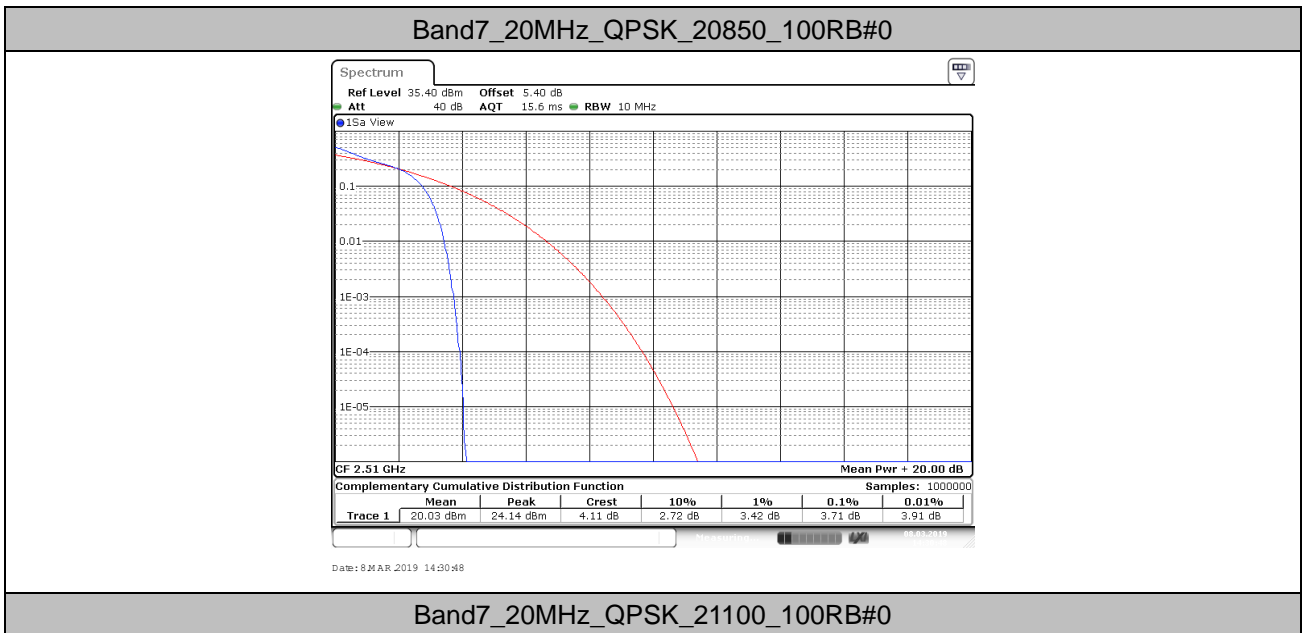
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

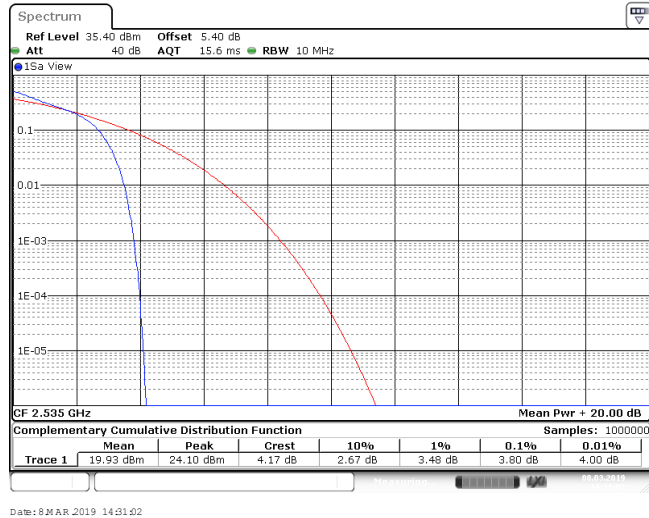
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	3.71	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	3.80	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	3.74	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.51	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.54	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.45	13	PASS

2.2. Test Plots



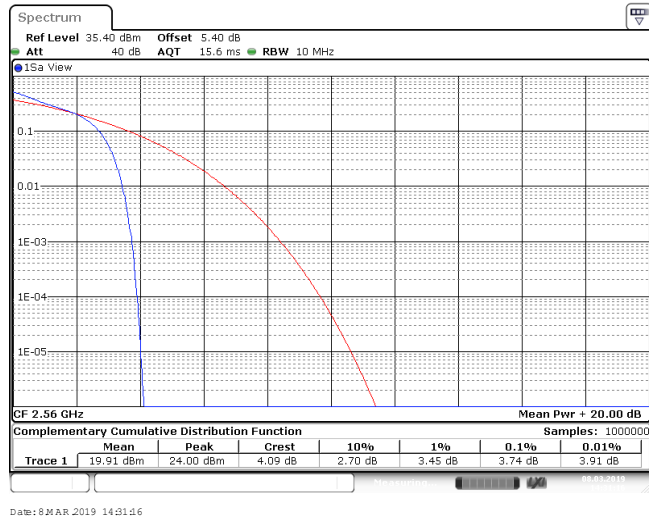
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Date: 8 MAR 2019 14:31:02

Band7_20MHz_QPSK_21350_100RB#0

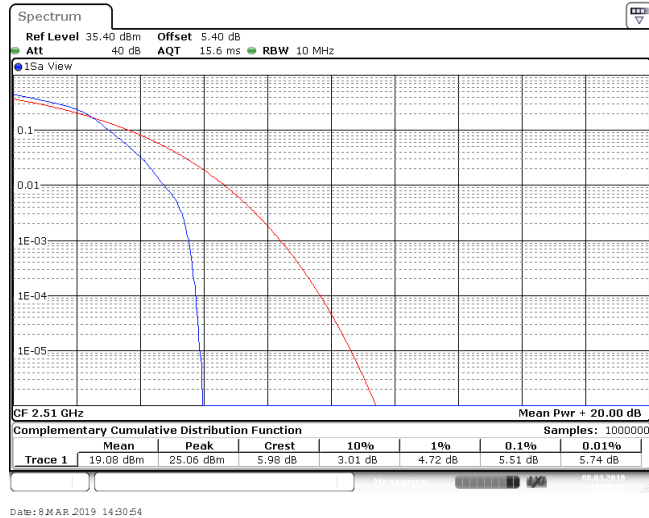


Date: 8 MAR 2019 14:31:16

Band7_20MHz_16QAM_20850_100RB#0

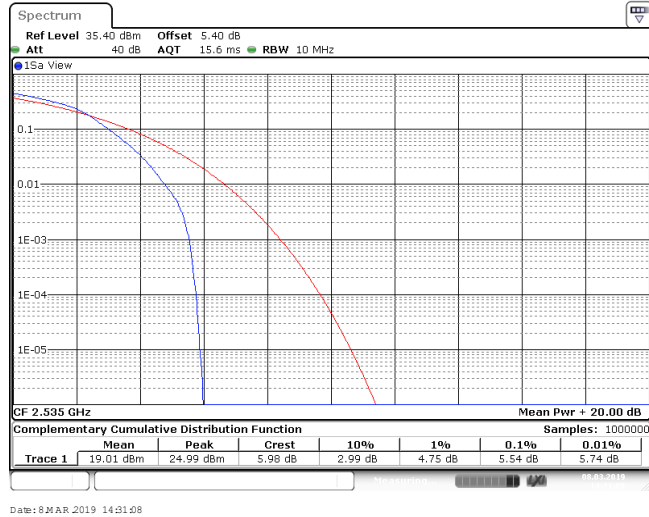


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Date: 8 MAR 2019 14:30:54

Band7_20MHz_16QAM_21100_100RB#0



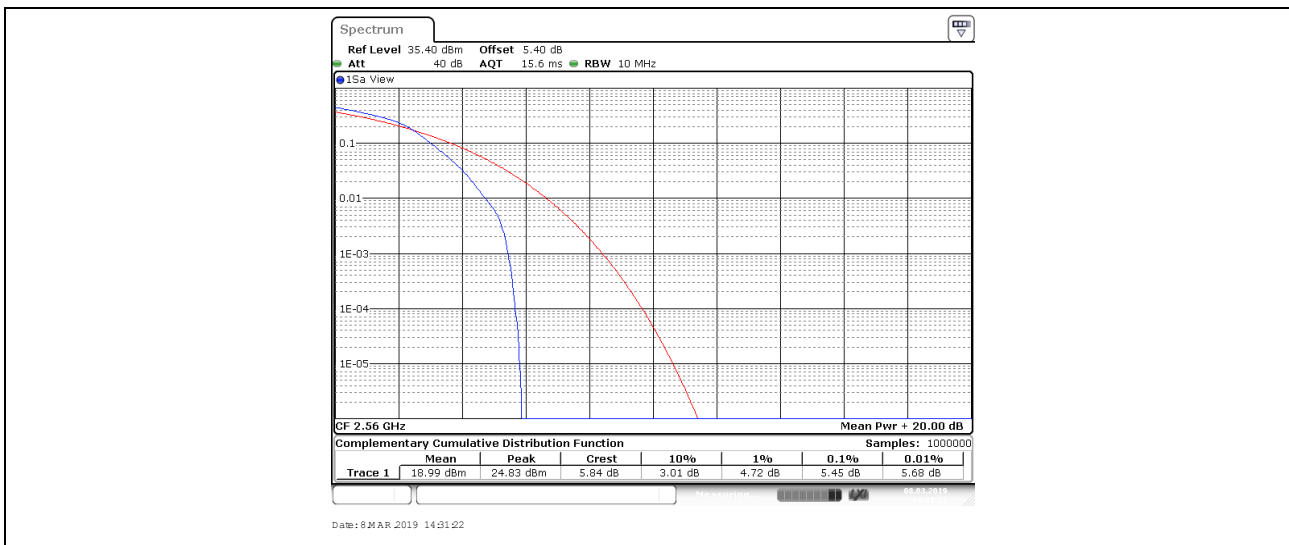
Date: 8 MAR 2019 14:31:08

Band7_20MHz_16QAM_21350_100RB#0



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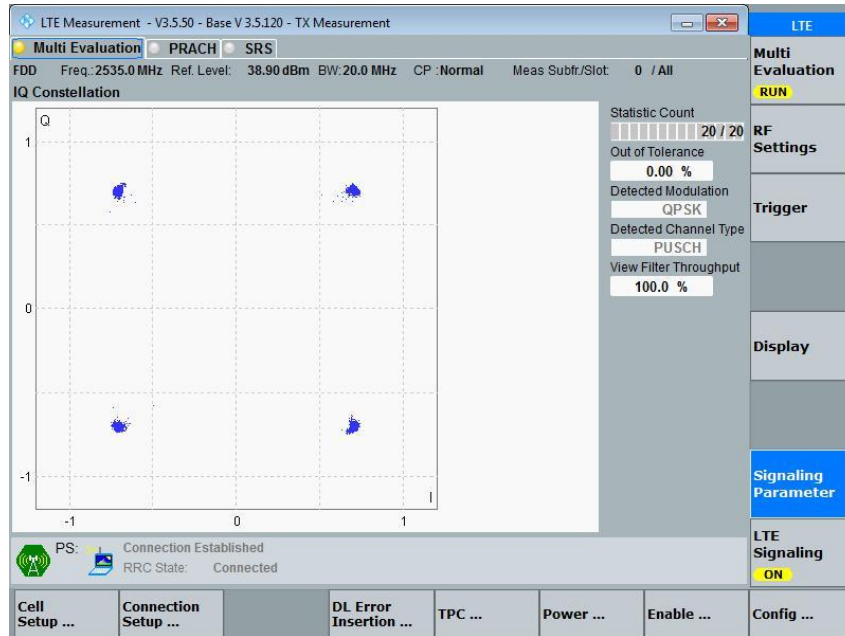
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3. Modulation Characteristics

3.1. Test BAND = LTE Band 7

3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = MCH

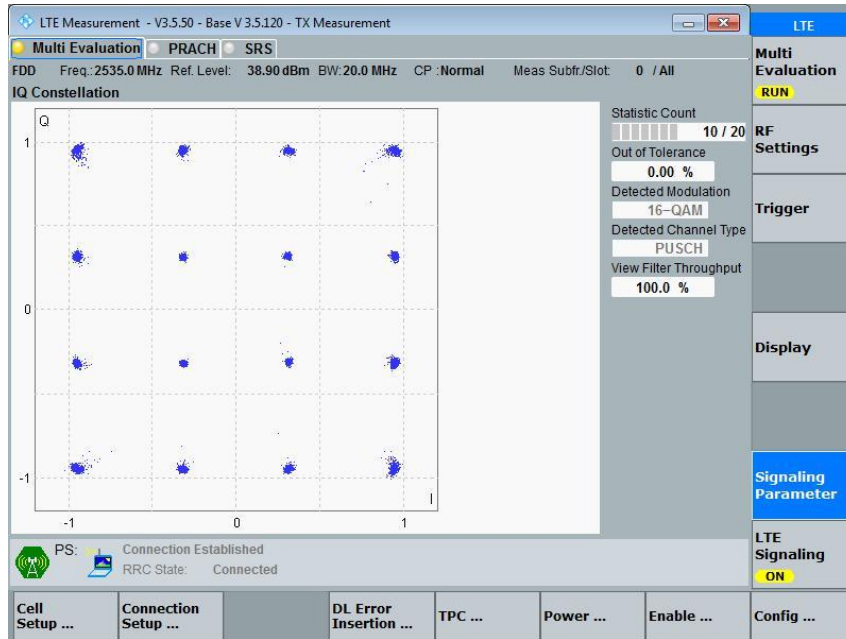


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3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

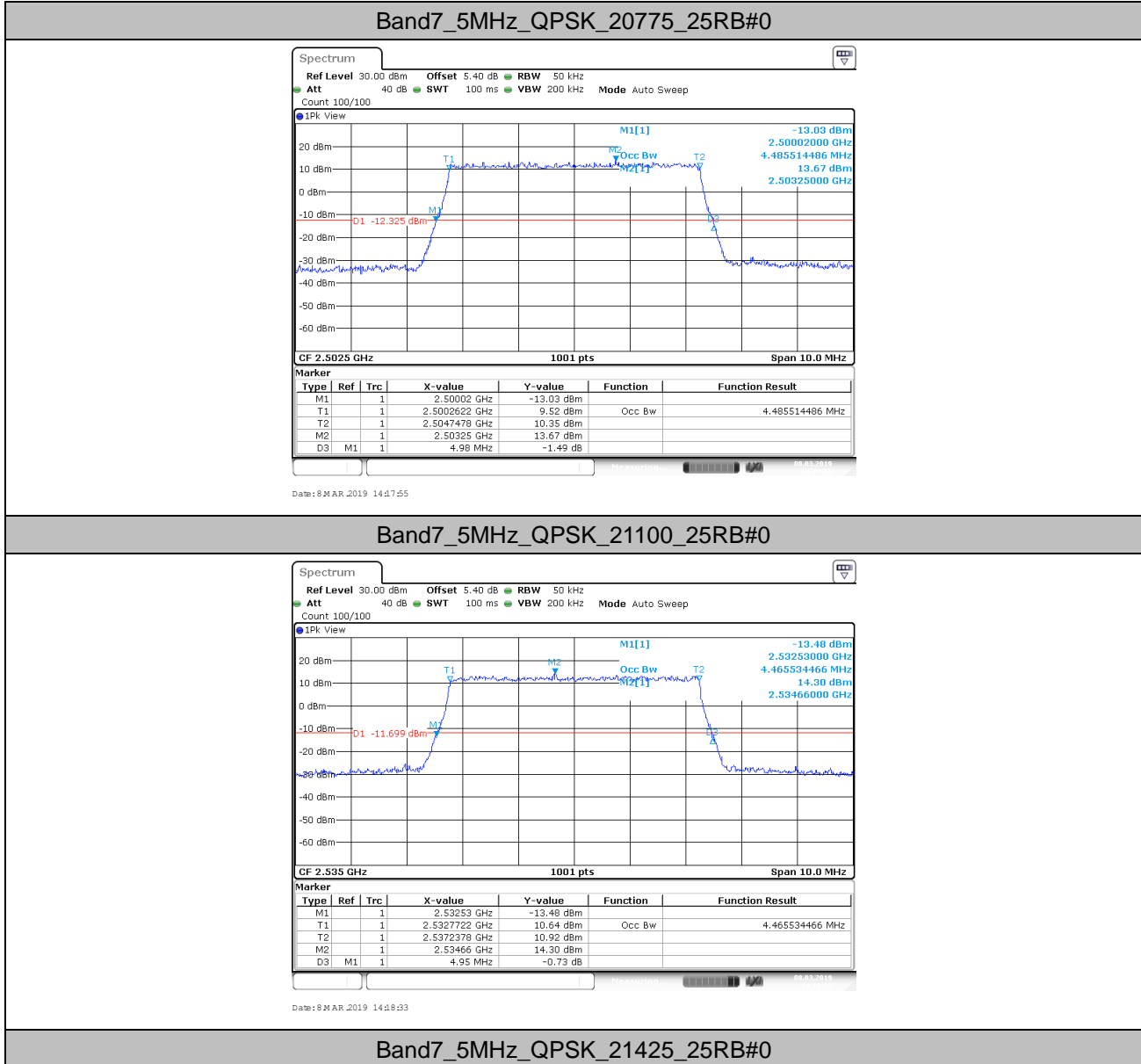
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.486	4.980	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.466	4.950	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.970	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.476	4.960	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.960	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.486	4.960	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.780	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.760	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.680	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.931	9.620	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.931	9.680	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.951	9.720	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.910	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.457	14.880	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.397	14.760	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.790	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.487	14.850	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.457	14.790	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.862	19.320	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.902	19.560	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.822	19.280	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.782	19.240	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.862	19.360	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.862	19.560	PASS



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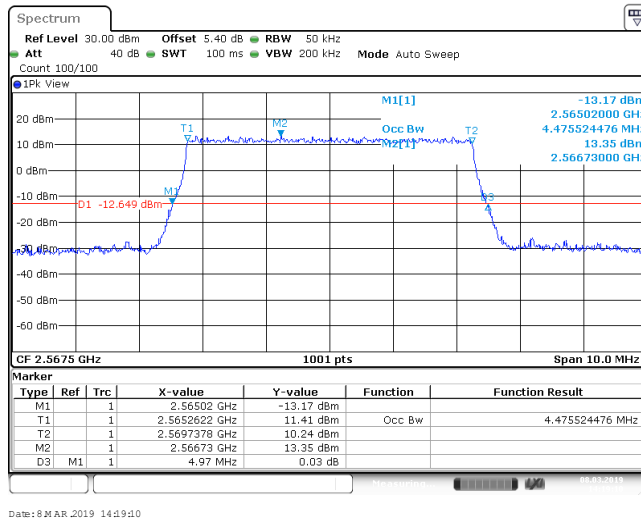
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4.2. Test Plots



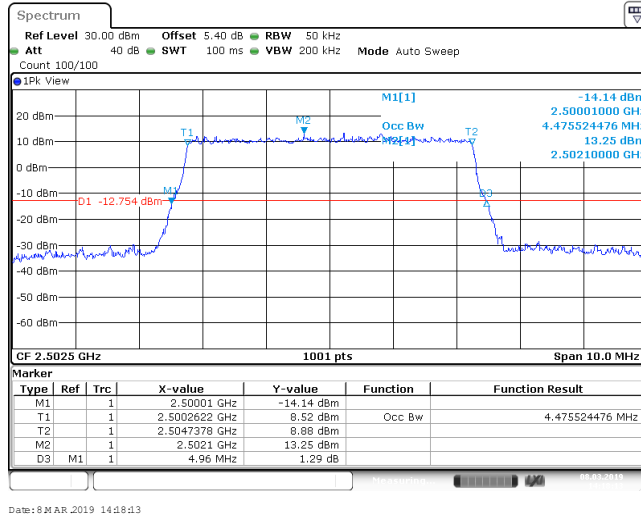
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Date: 8 MAR 2019 14:19:10

Band7_5MHz_16QAM_20775_25RB#0

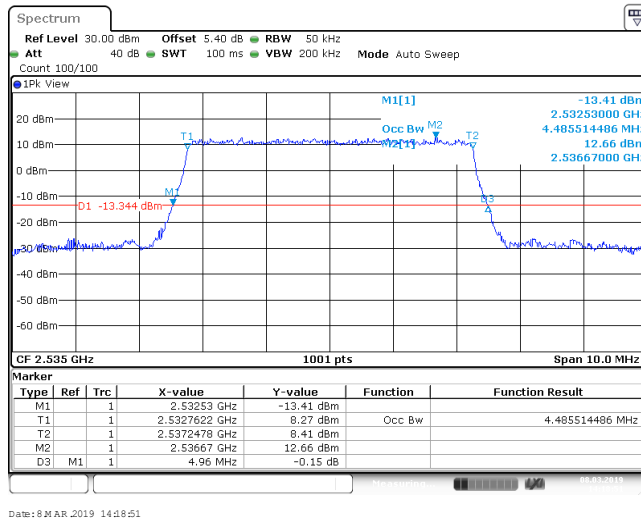


Date: 8 MAR 2019 14:18:13

Band7_5MHz_16QAM_21100_25RB#0

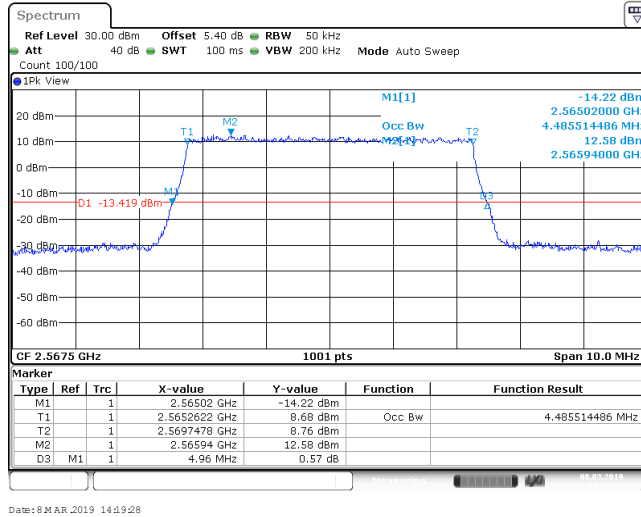


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Date: 8 MAR 2019 14:18:51

Band7_5MHz_16QAM_21425_25RB#0

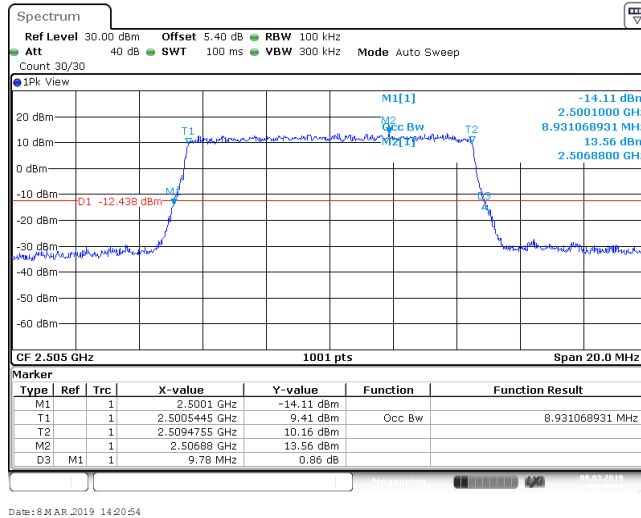


Date: 8 MAR 2019 14:19:28

Band7_10MHz_QPSK_20800_50RB#0

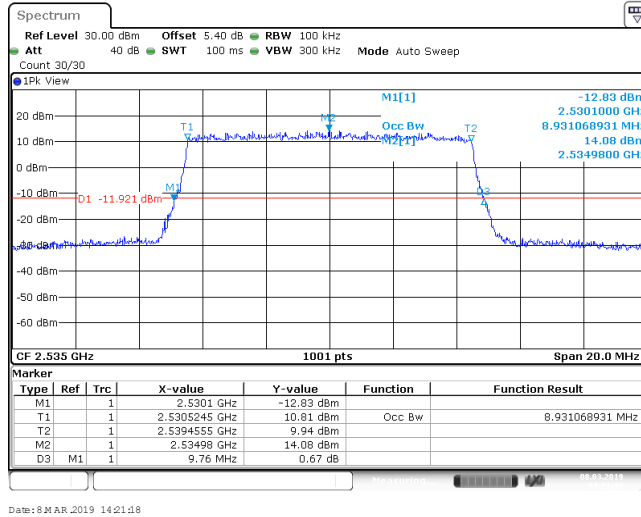


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Date: 8 MAR 2019 14:20:54

Band7_10MHz_QPSK_21100_50RB#0

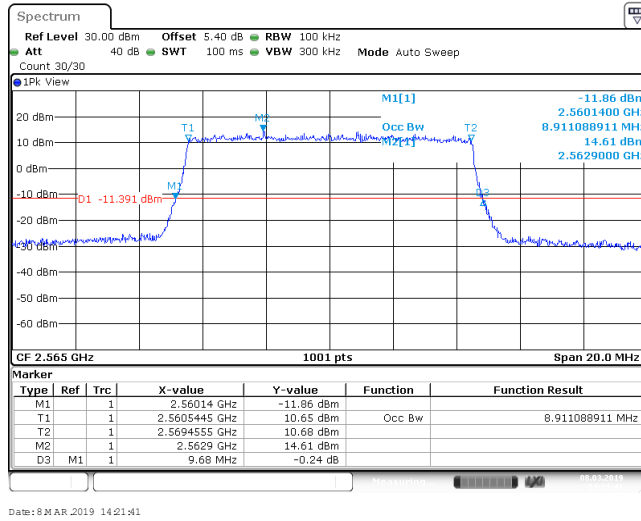


Date: 8 MAR 2019 14:21:18

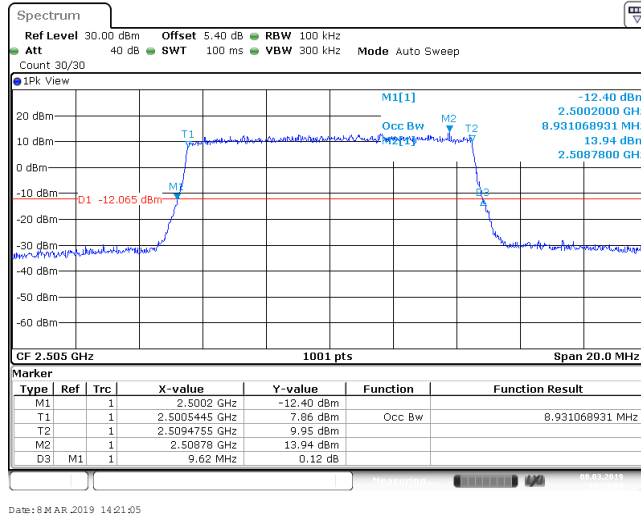
Band7_10MHz_QPSK_21400_50RB#0



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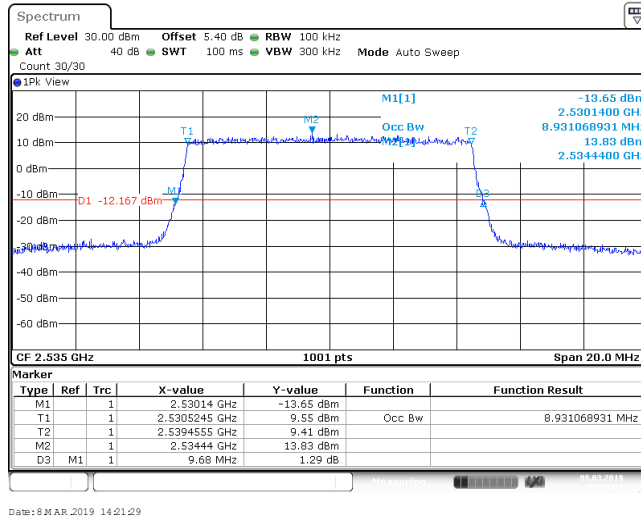
Band7_10MHz_16QAM_20800_50RB#0



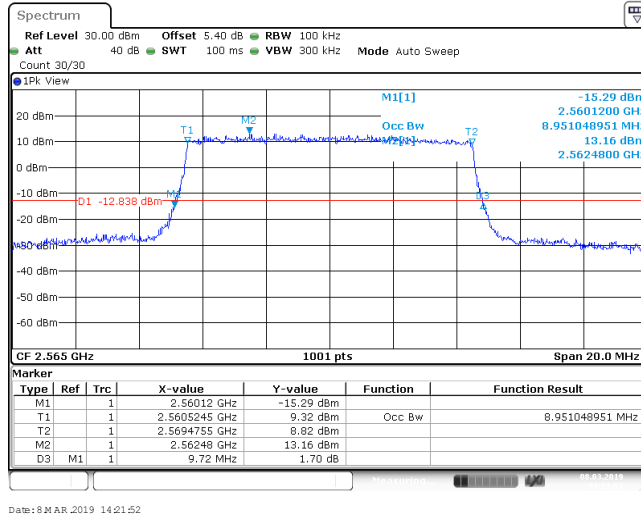
Band7_10MHz_16QAM_21100_50RB#0



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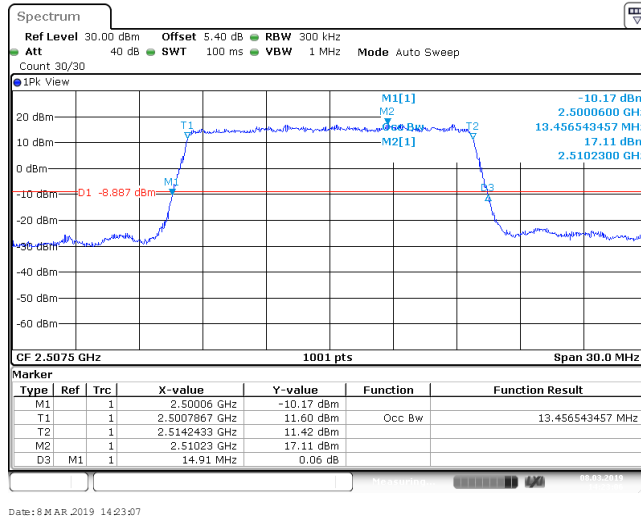
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Band7_15MHz_QPSK_20825_75RB#

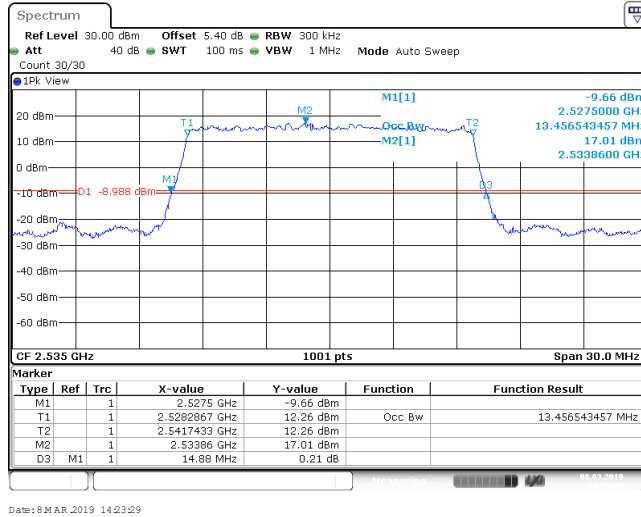


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Date: 8 MAR 2019 14:23:07

Band7_15MHz_QPSK_21100_75RB#0

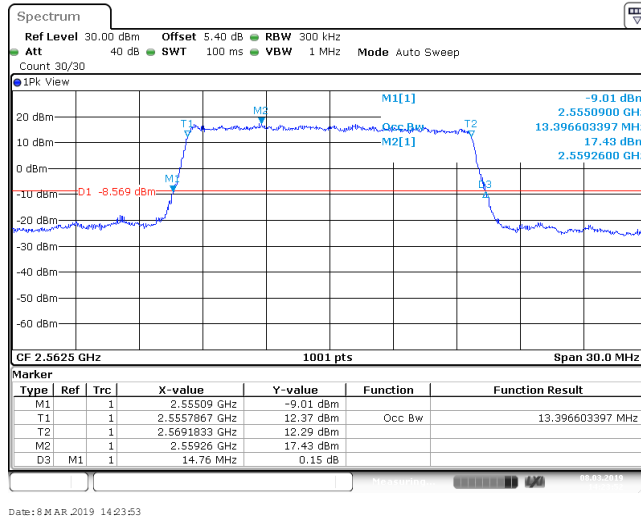


Date: 8 MAR 2019 14:23:29

Band7_15MHz_QPSK_21375_75RB#0

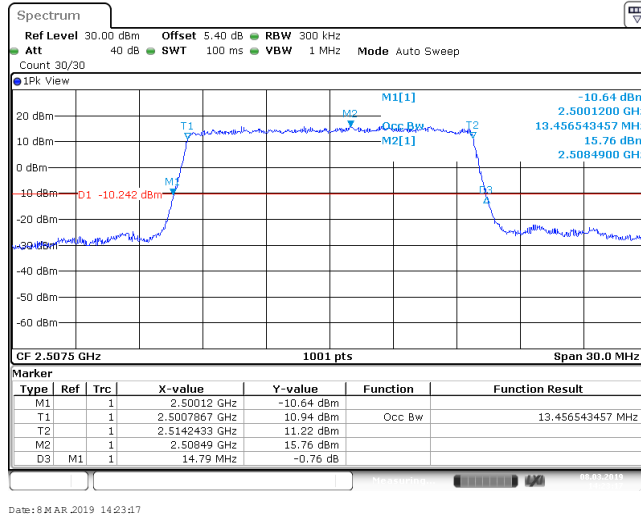


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Date: 8 MAR 2019 14:23:53

Band7_15MHz_16QAM_20825_75RB#0

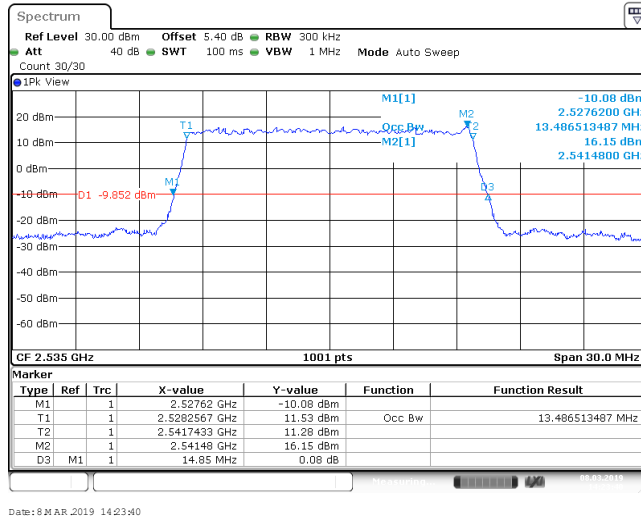


Date: 8 MAR 2019 14:23:17

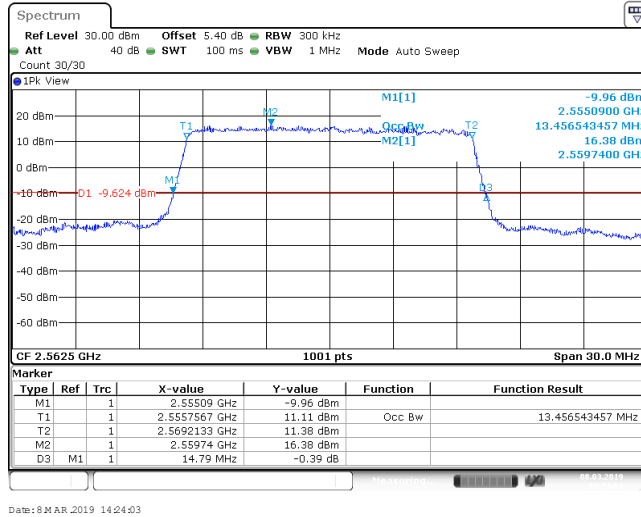
Band7_15MHz_16QAM_21100_75RB#0



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Band7_15MHz_16QAM_21375_75RB#



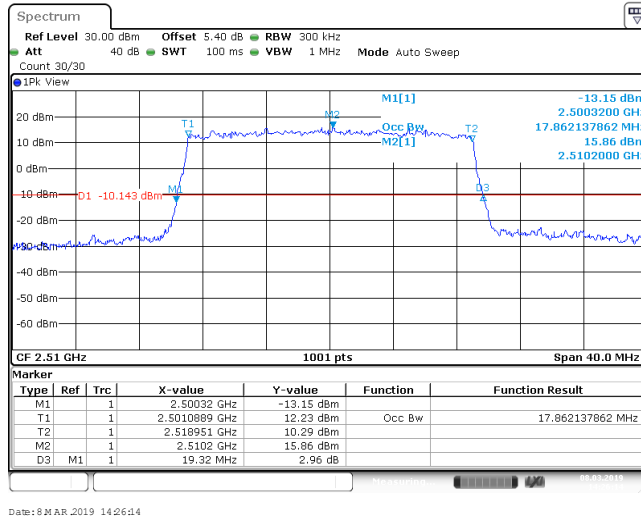
Band7_20MHz_QPSK_20850_100RB#



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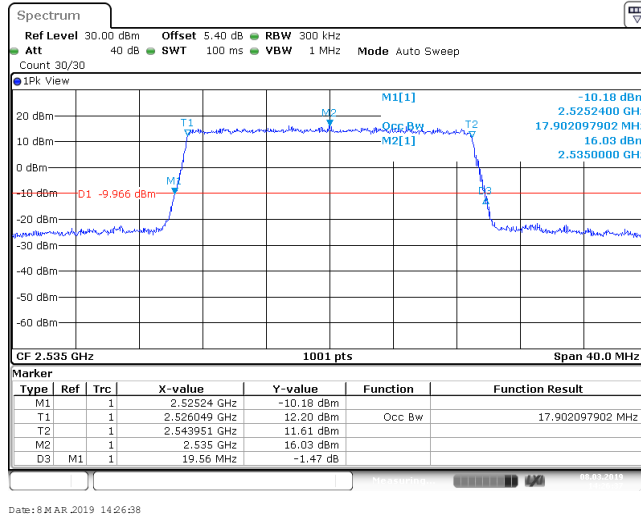
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Date: 8 MAR 2019 14:26:14

Band7_20MHz_QPSK_21100_100RB#0

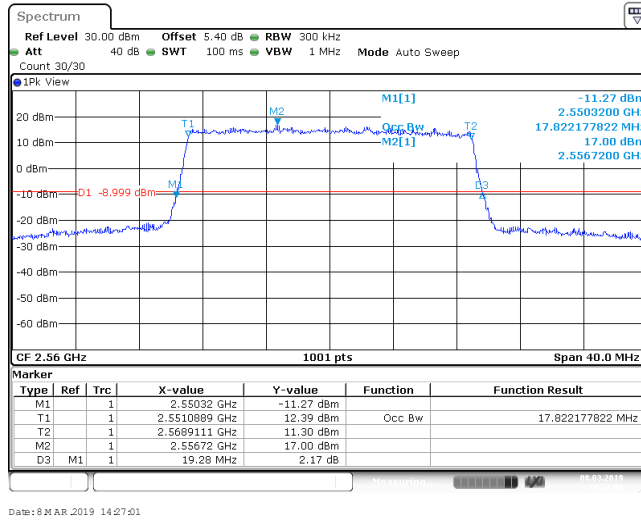


Date: 8 MAR 2019 14:26:38

Band7_20MHz_QPSK_21350_100RB#0

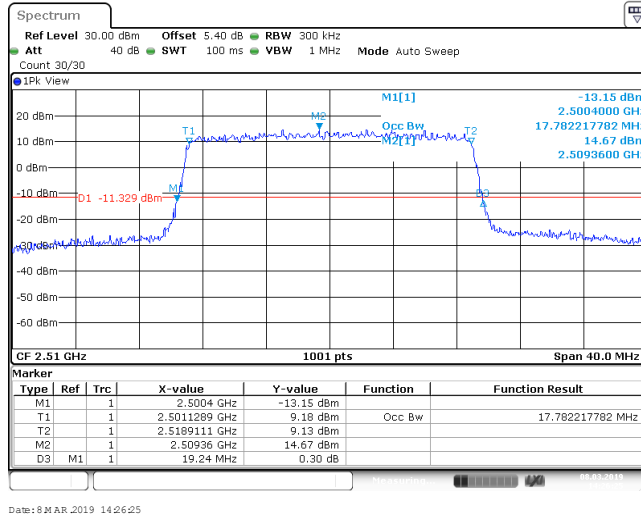


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Date: 8 MAR 2019 14:27:01

Band7_20MHz_16QAM_20850_100RB#0

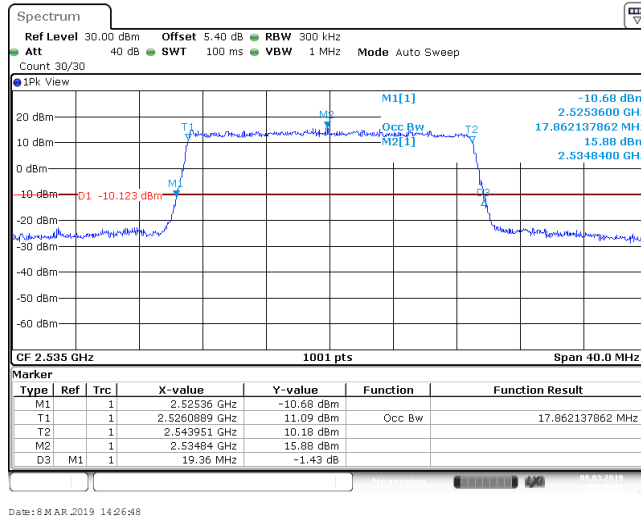


Date: 8 MAR 2019 14:26:25

Band7_20MHz_16QAM_21100_100RB#0

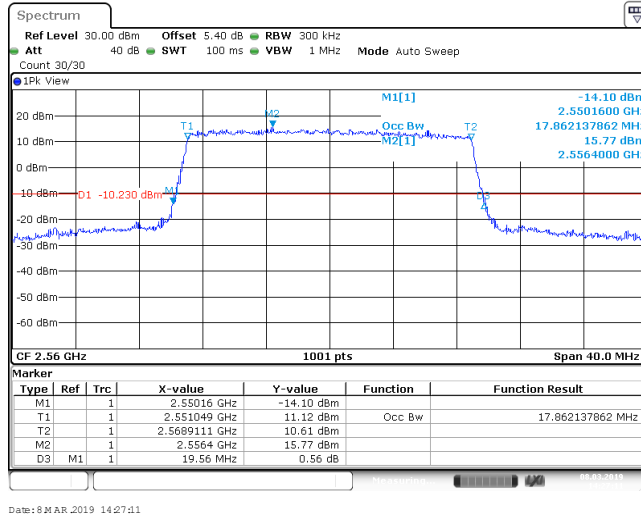


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Date: 8 MAR 2019 14:26:48

Band7_20MHz_16QAM_21350_100RB#0



Date: 8 MAR 2019 14:27:11

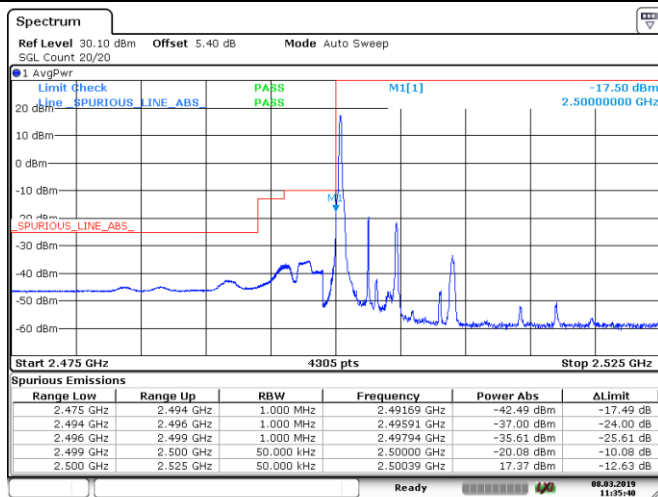


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5. Band Edge Compliance

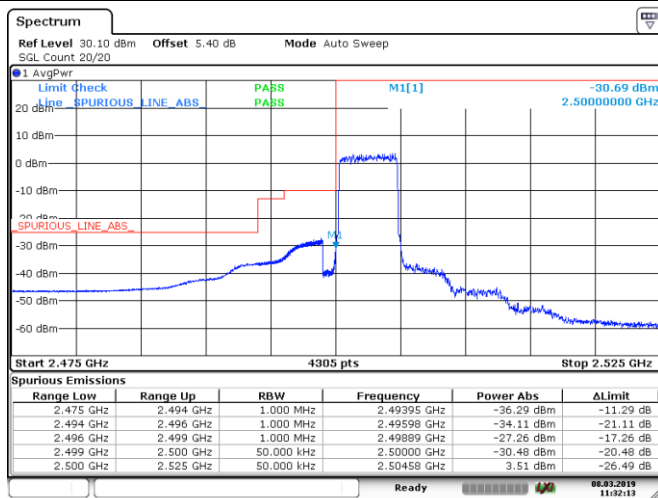
5.1. Test Plots

Band7_5MHz_QPSK_20775_1RB#0



Date: 8 MAR 2019 11:35:41

Band7_5MHz_QPSK_20775_25RB#0

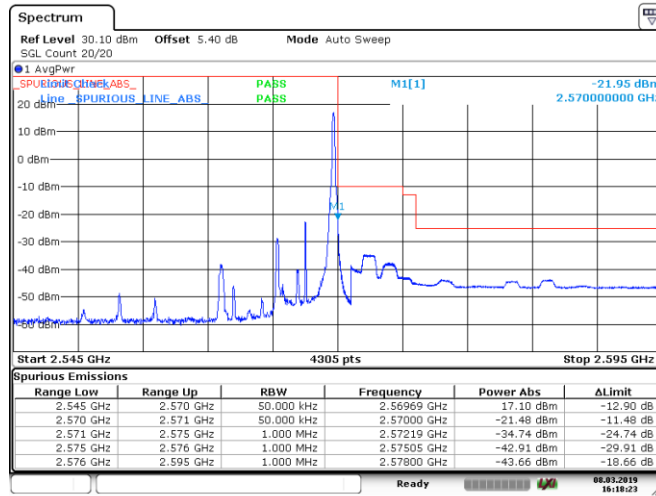


Date: 8 MAR 2019 11:32:13

Band7_5MHz_QPSK_21425_1RB#24

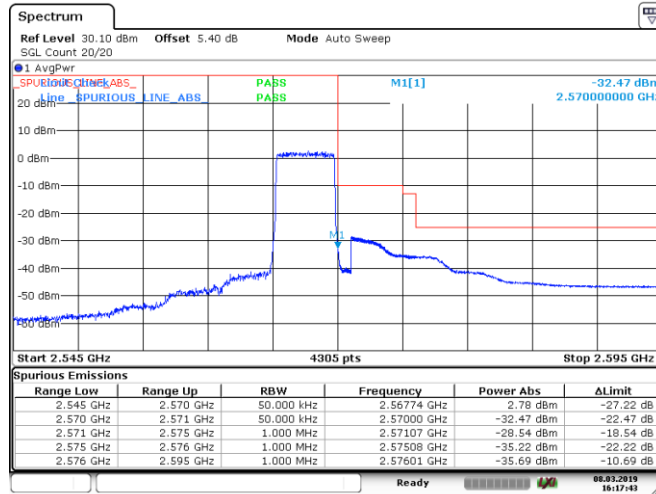


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Date: 8 MAR 2019 16:18:23

Band7_5MHz_QPSK_21425_25RB#0

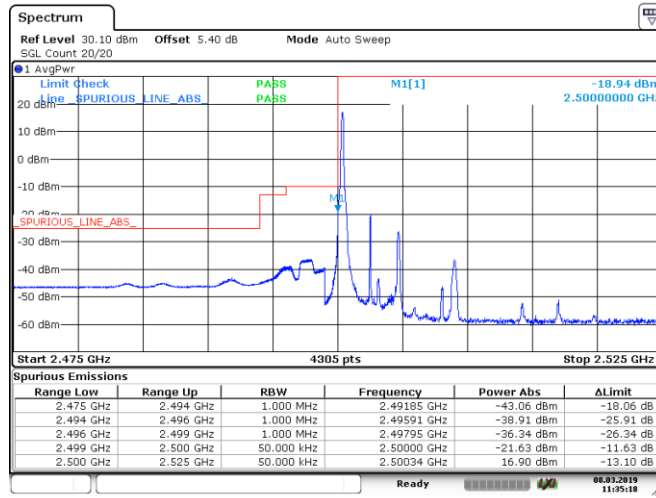


Date: 8 MAR 2019 16:17:43

Band7_5MHz_16QAM_20775_1RB#0

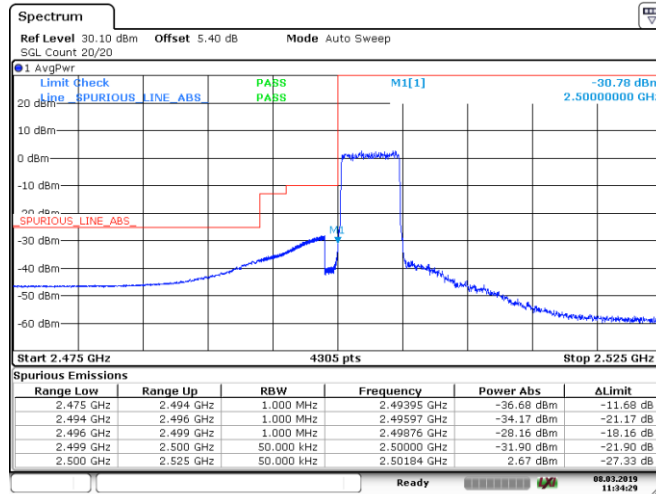


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Date: 8 MAR 2019 11:35:18

Band7_5MHz_16QAM_20775_25RB#0



Date: 8 MAR 2019 11:34:30

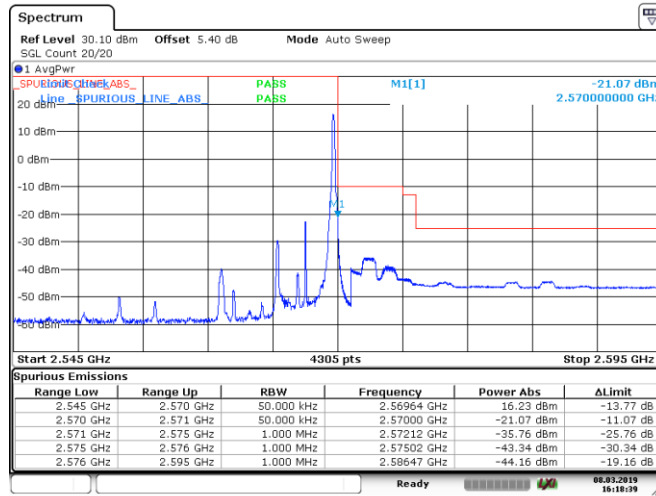
Band7_5MHz_16QAM_21425_1RB#24



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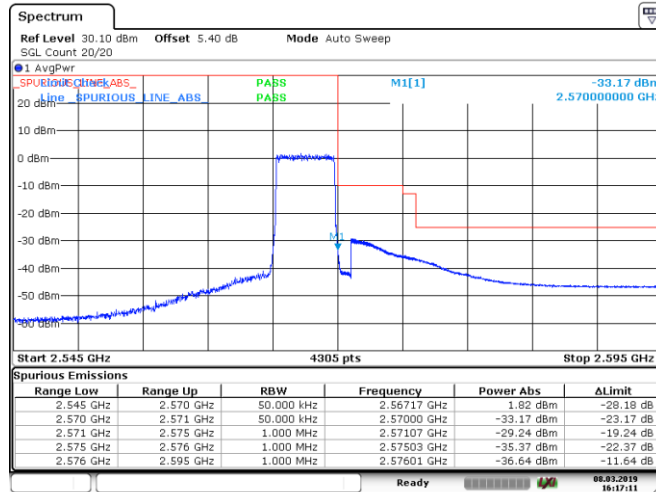
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Date: 8 MAR 2019 16:18:40

Band7_5MHz_16QAM_21425_25RB#0

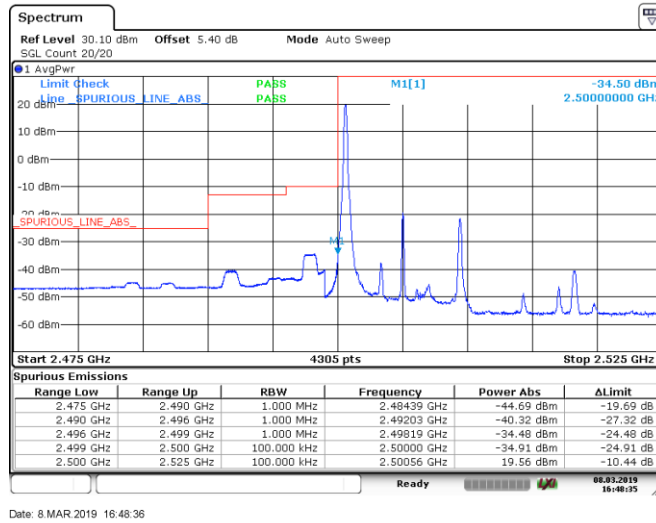


Date: 8 MAR 2019 16:17:11

Band7_10MHz_QPSK_20800_1RB#0

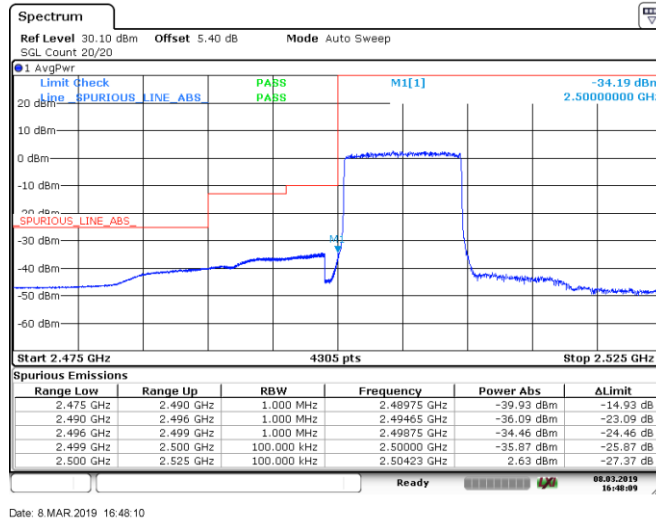


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Date: 8 MAR 2019 16:48:36

Band7_10MHz_QPSK_20800_50RB#0

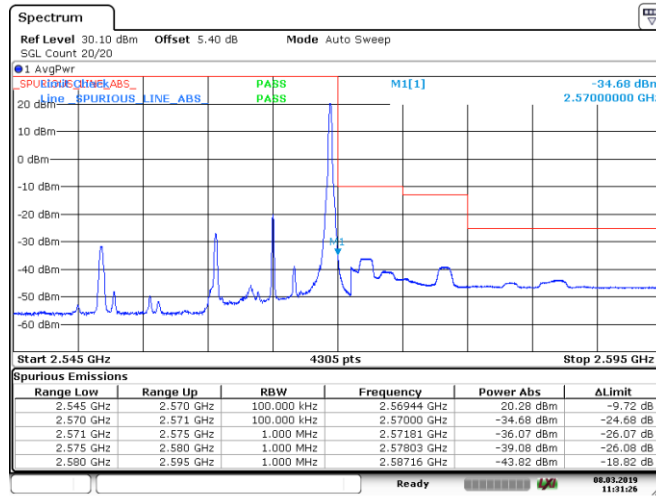


Date: 8 MAR 2019 16:48:10

Band7_10MHz_QPSK_21400_1RB#49

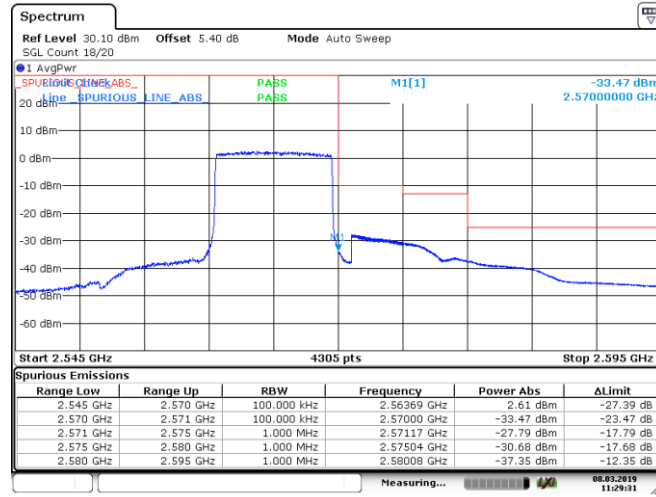


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Date: 8 MAR 2019 11:31:26

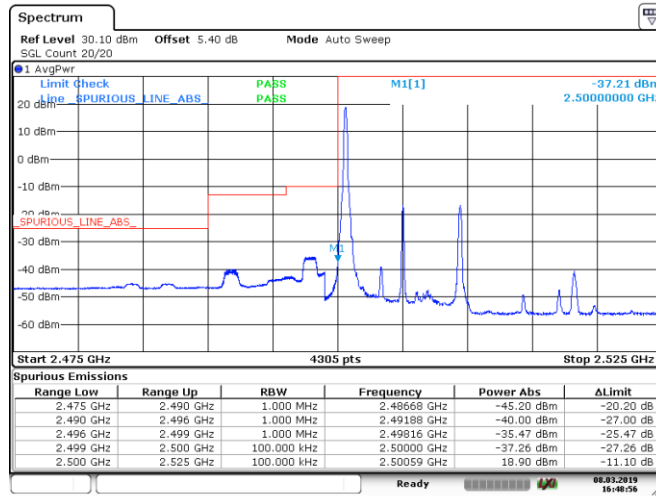
Band7_10MHz_QPSK_21400_50RB#0



Date: 8 MAR 2019 11:29:32

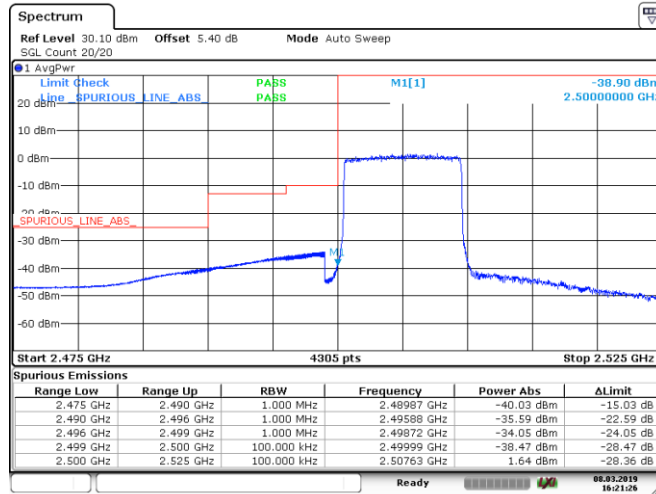
Band7_10MHz_16QAM_20800_1RB#0





Date: 8 MAR 2019 16:48:56

Band7_10MHz_16QAM_20800_50RB#0

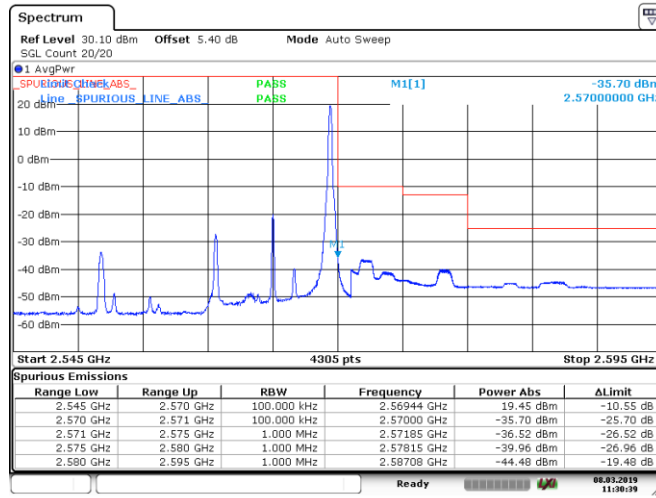


Date: 8 MAR 2019 16:21:27

Band7_10MHz_16QAM_21400_1RB#49

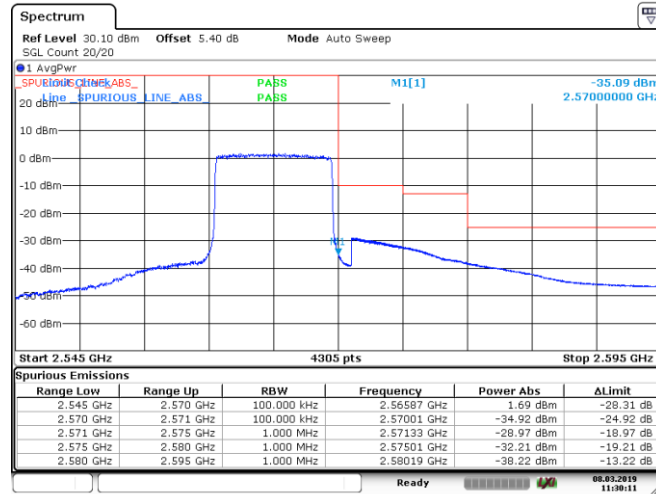


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Date: 8 MAR 2019 11:30:39

Band7_10MHz_16QAM_21400_50RB#0



Date: 8 MAR 2019 11:30:11

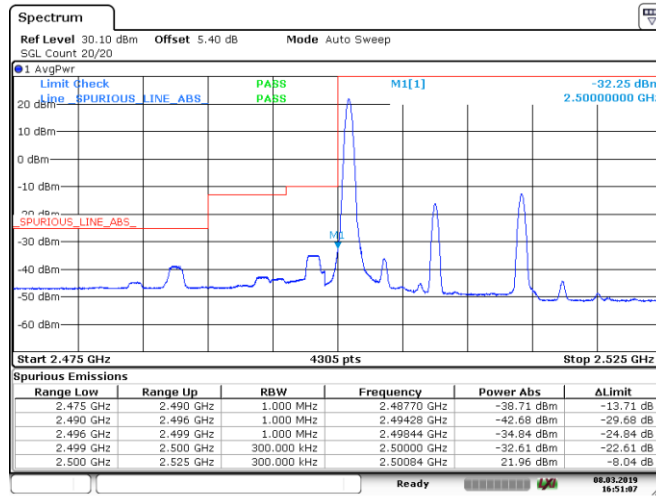
Band7_15MHz_QPSK_20825_1RB#0



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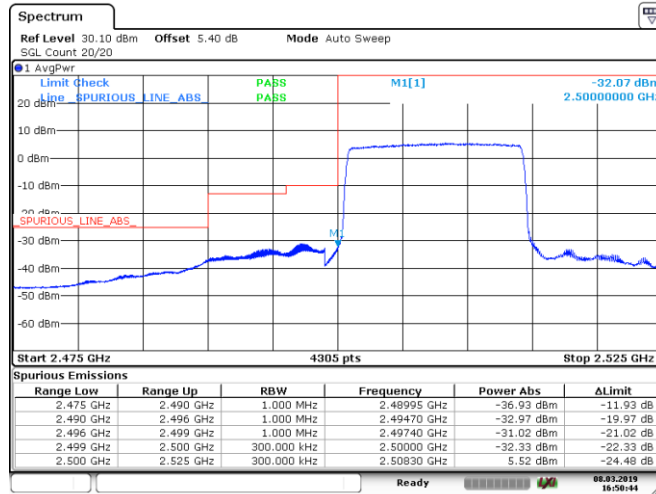
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Date: 8 MAR 2019 16:51:08

Band7_15MHz_QPSK_20825_75RB#0

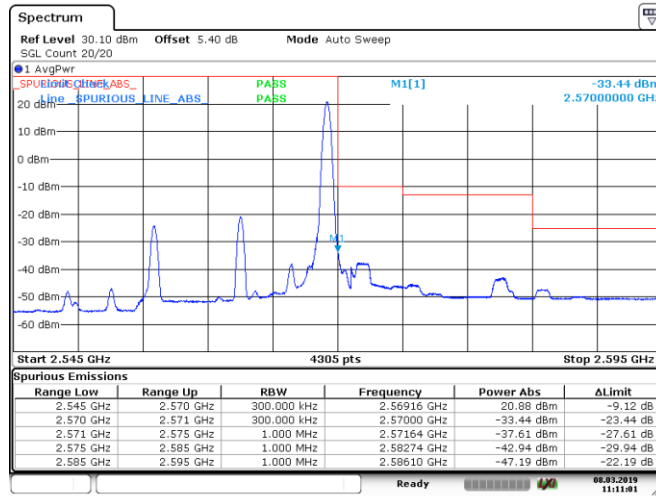


Date: 8 MAR 2019 16:50:44

Band7_15MHz_QPSK_21375_1RB#74

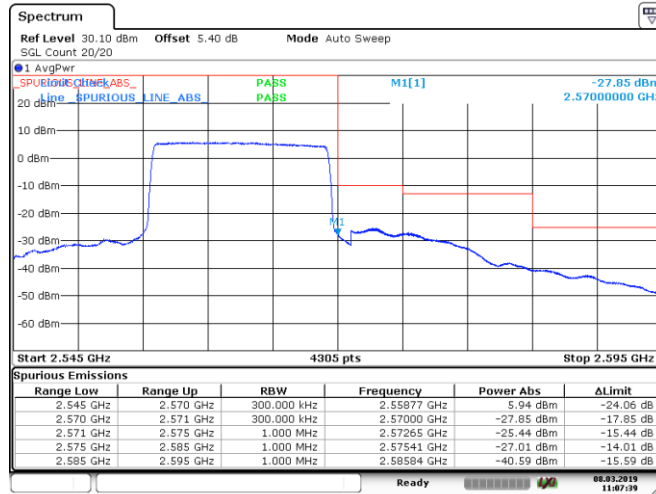


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Date: 8 MAR 2019 11:11:02

Band7_15MHz_QPSK_21375_75RB#0

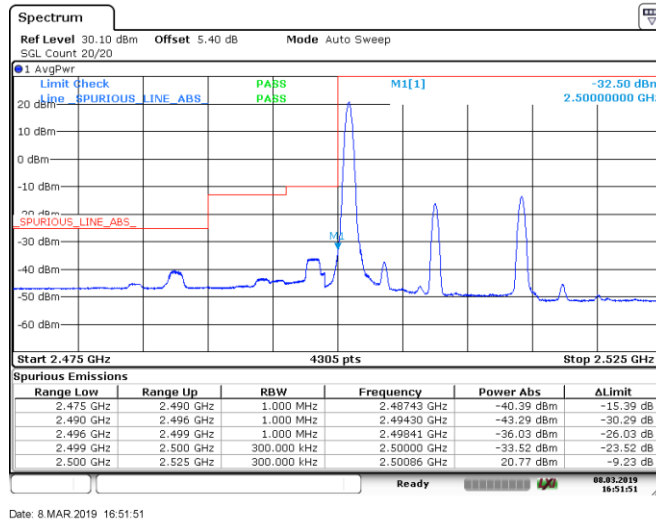


Date: 8 MAR 2019 11:07:40

Band7_15MHz_16QAM_20825_1RB#0

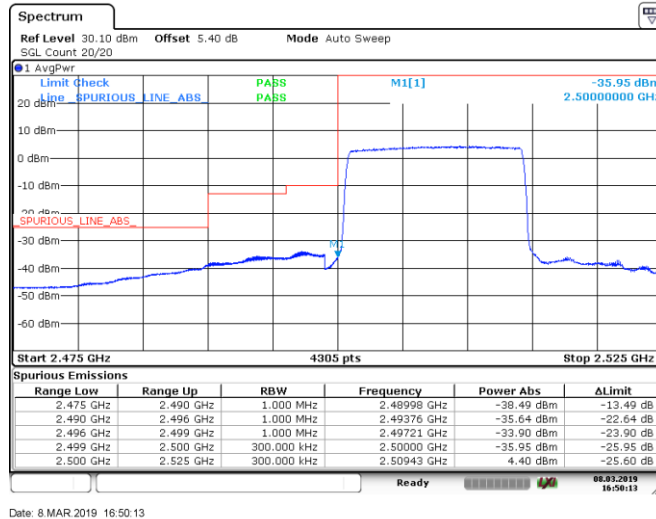


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Date: 8 MAR 2019 16:51:51

Band7_15MHz_16QAM_20825_75RB#0

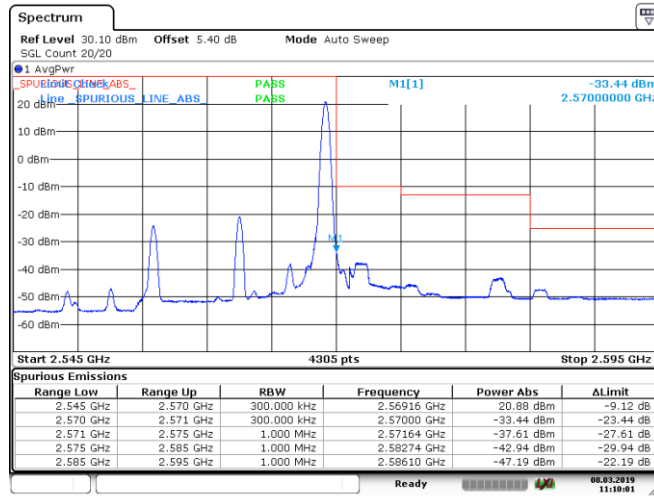


Date: 8 MAR 2019 16:50:13

Band7_15MHz_16QAM_21375_1RB#74

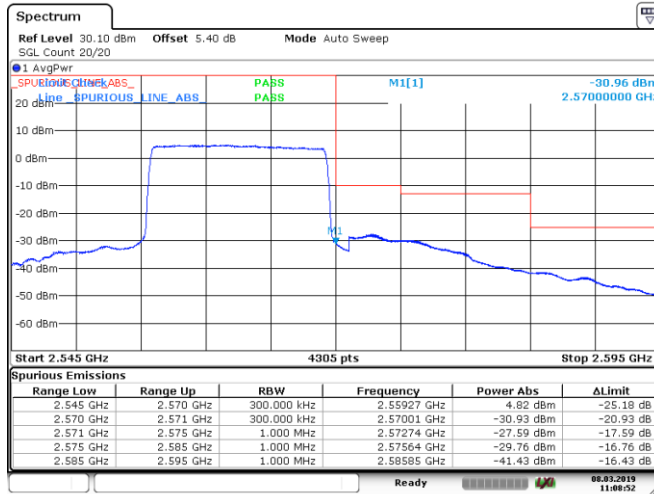


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Date: 8 MAR 2019 11:10:01

Band7_15MHz_16QAM_21375_75RB#0

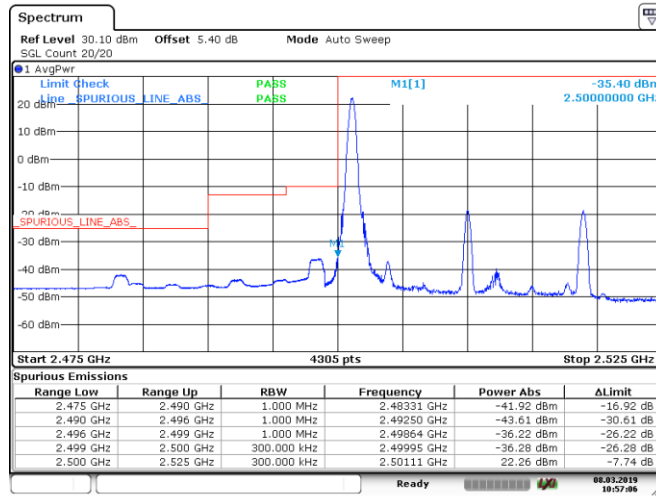


Date: 8 MAR 2019 11:08:52

Band7_20MHz_QPSK_20850_1RB#0

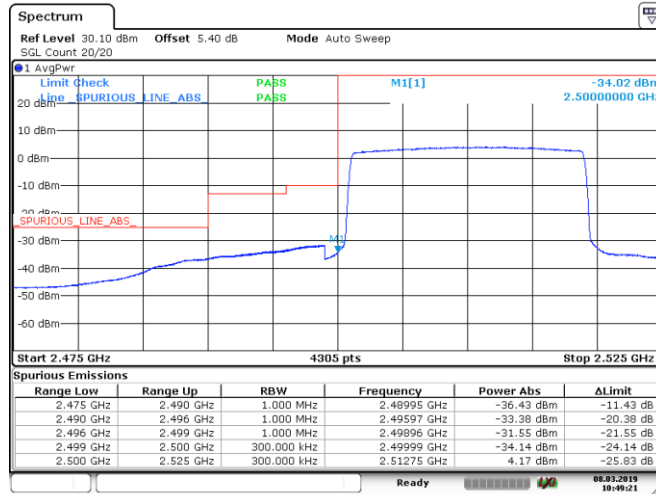


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Date: 8 MAR 2019 10:57:07

Band7_20MHz_QPSK_20850_100RB#0

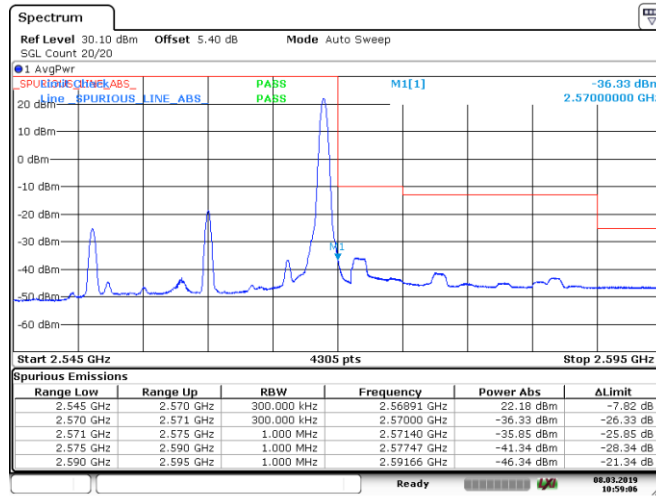


Date: 8 MAR 2019 10:49:21

Band7_20MHz_QPSK_21350_1RB#99

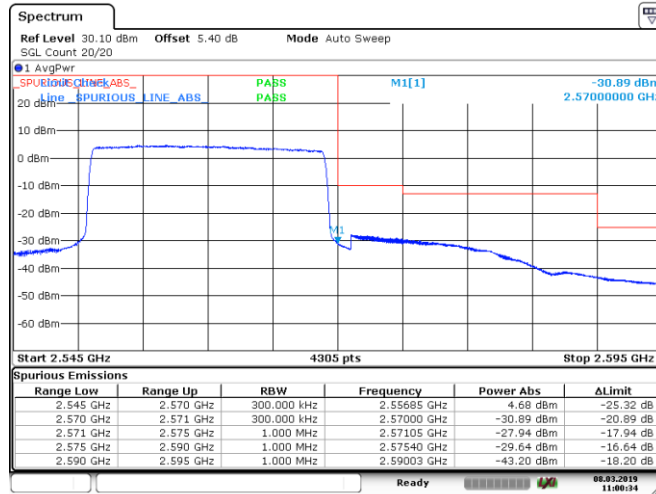


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Date: 8 MAR 2019 10:59:06

Band7_20MHz_QPSK_21350_100RB#0

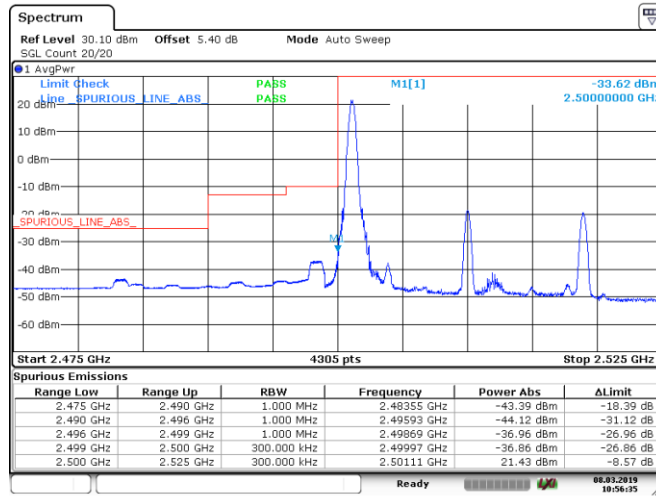


Date: 8 MAR 2019 11:00:34

Band7_20MHz_16QAM_20850_1RB#0

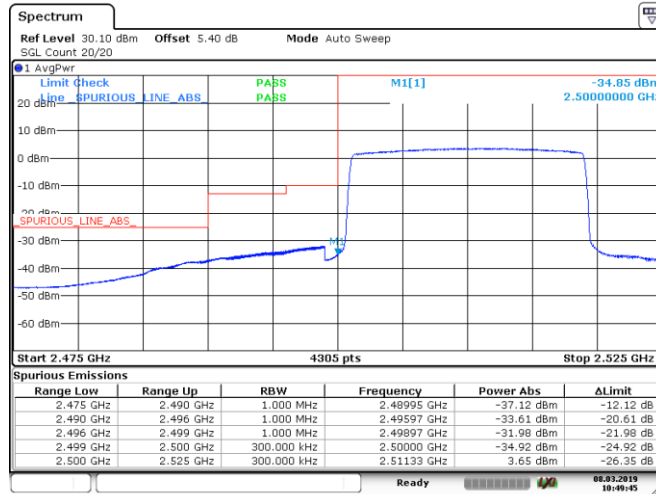


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Date: 8 MAR 2019 10:56:36

Band7_20MHz_16QAM_20850_100RB#0

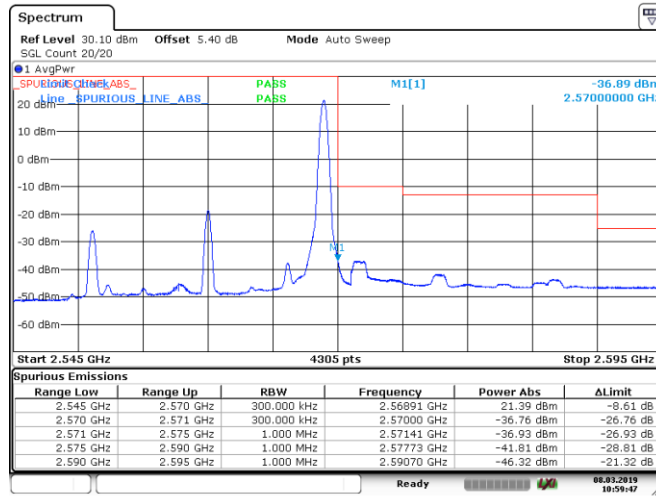


Date: 8 MAR 2019 10:49:46

Band7_20MHz_16QAM_21350_1RB#99

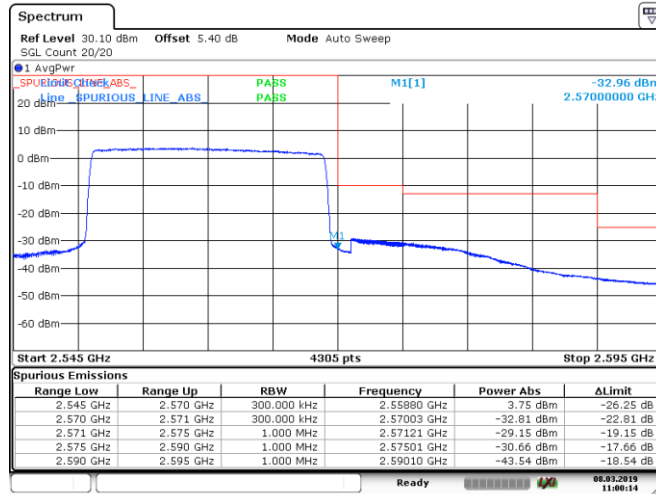


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Date: 8 MAR 2019 10:59:47

Band7_20MHz_16QAM_21350_100RB#0



Date: 8 MAR 2019 11:00:14



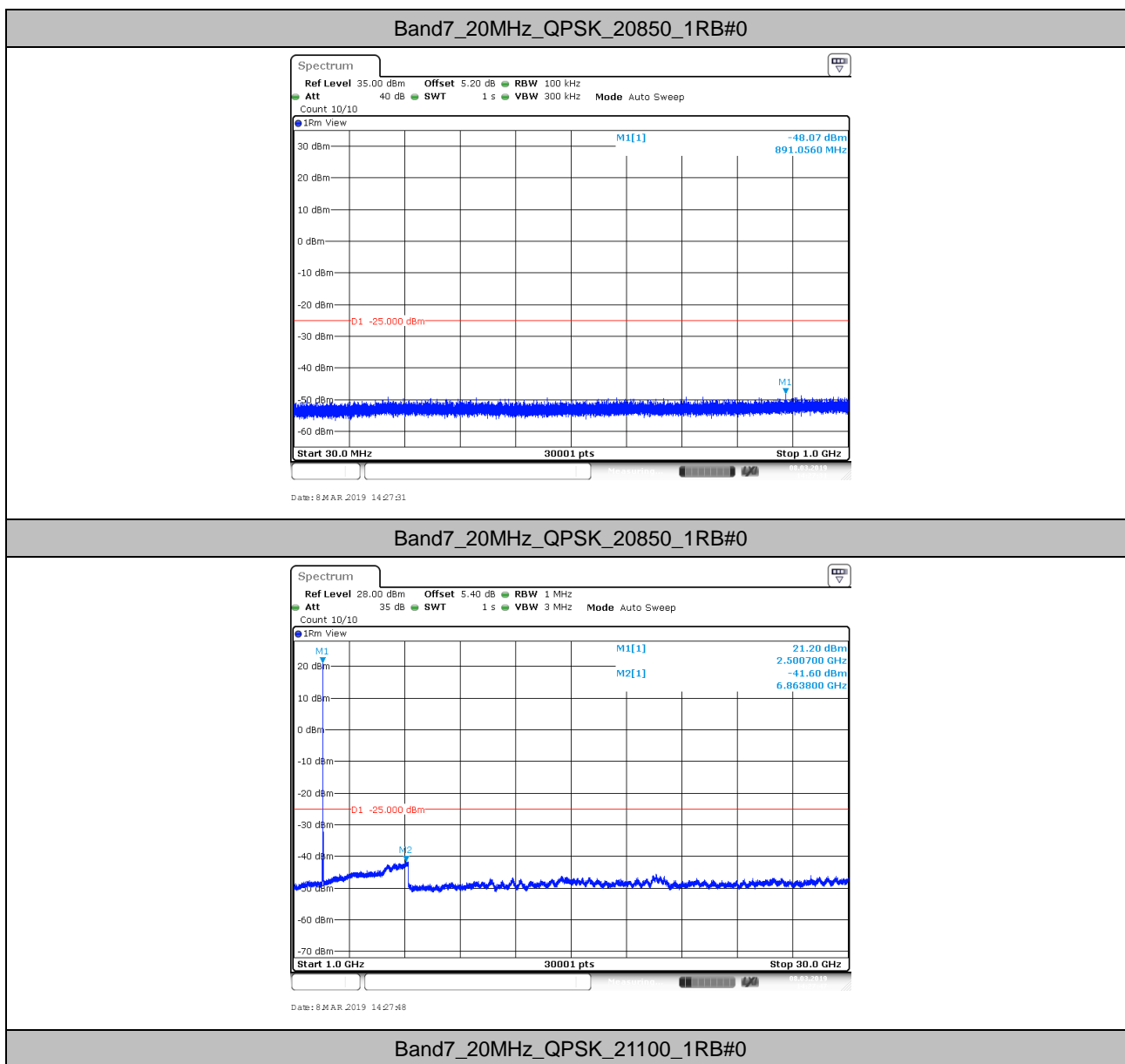
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6. Spurious Emission at Antenna Terminal

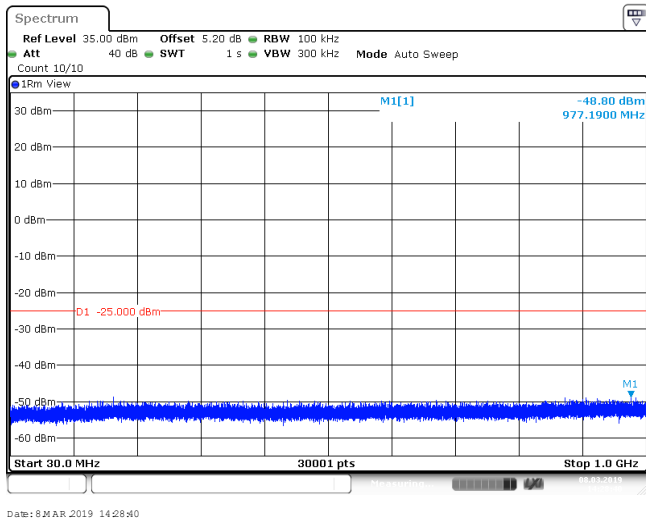
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

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

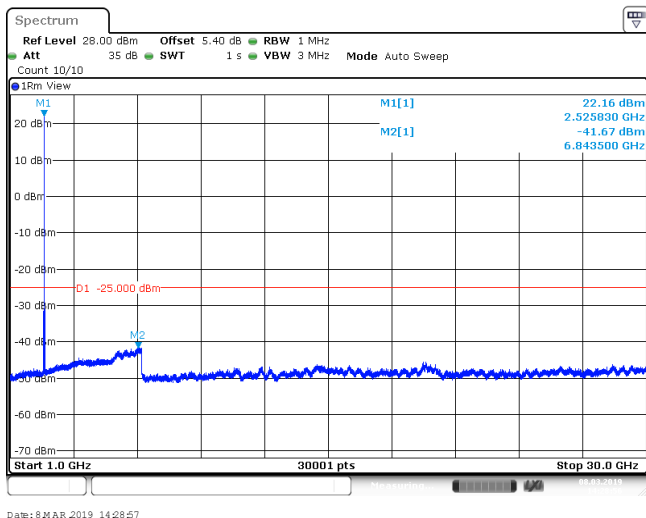
6.1. Test Plots



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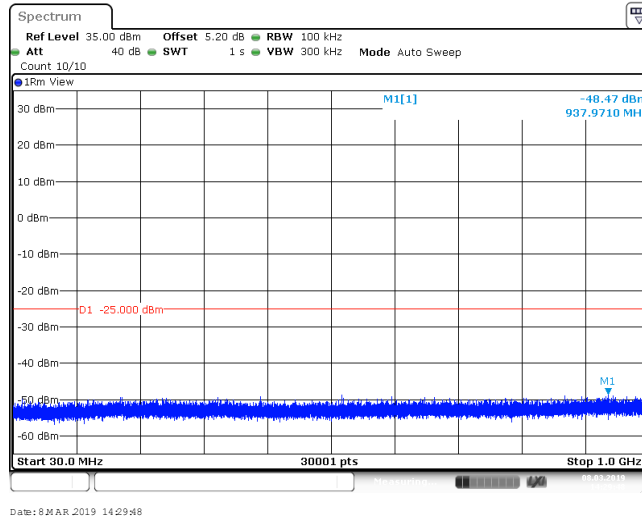
Band7_20MHz_QPSK_21100_1RB#0



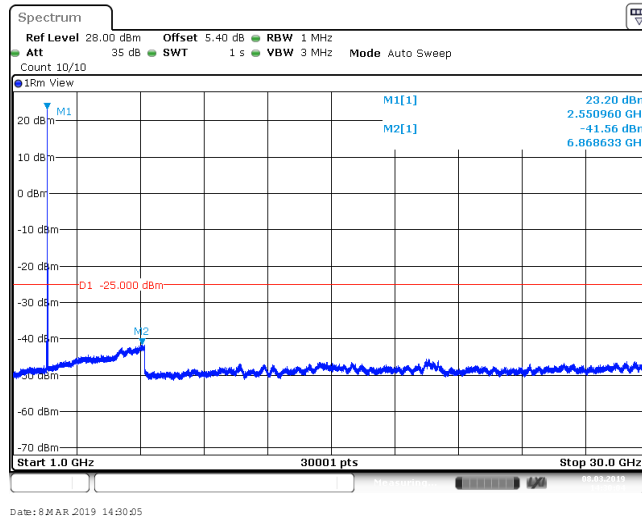
Band7_20MHz_QPSK_21350_1RB#0



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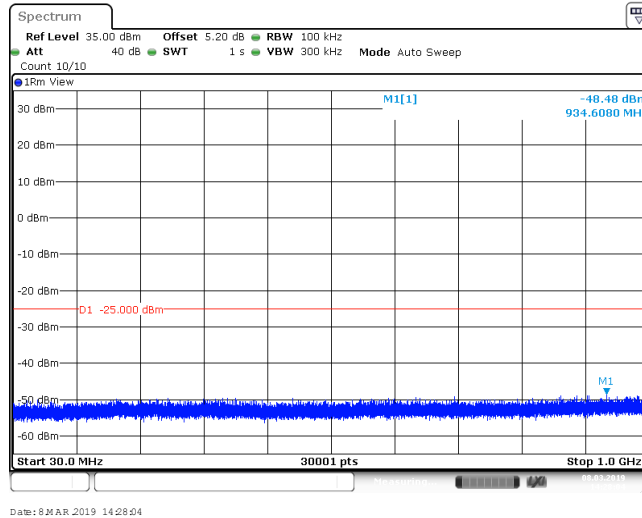
Band7_20MHz_QPSK_21350_1RB#0



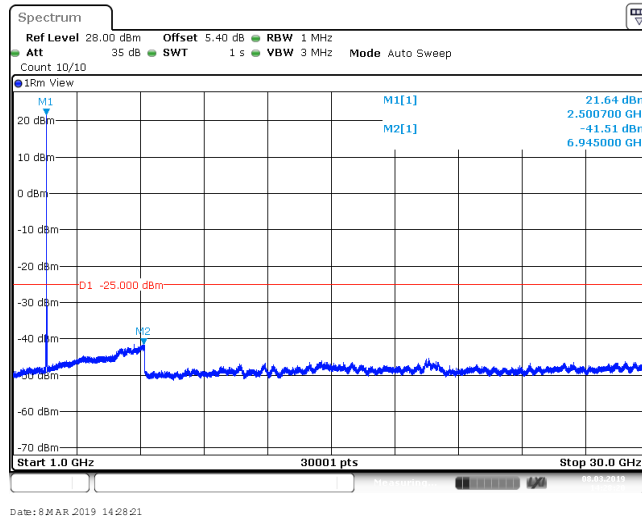
Band7_20MHz_16QAM_20850_1RB#0



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Band7_20MHz_16QAM_20850_1RB#0

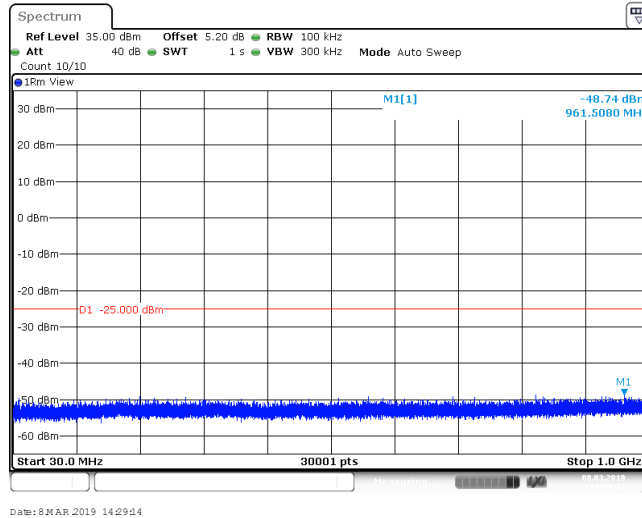


Band7_20MHz_16QAM_21100_1RB#0

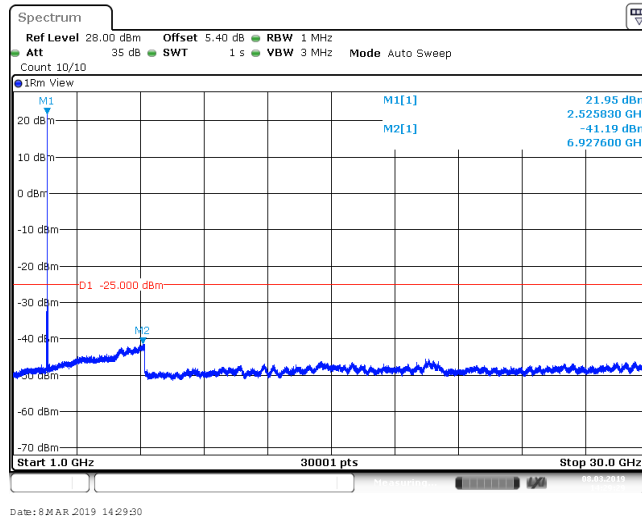


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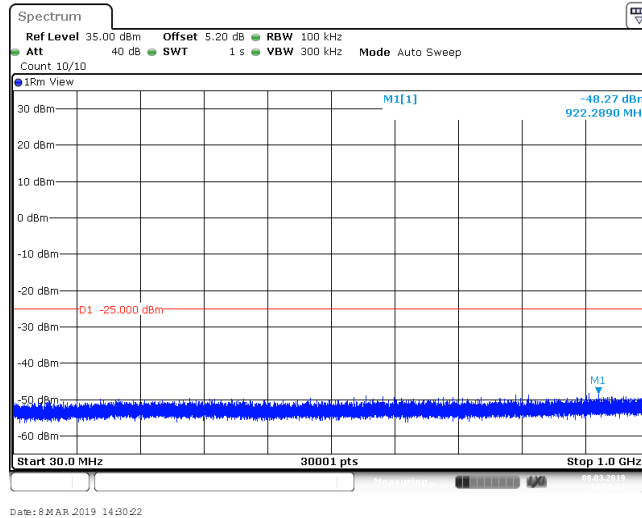
Band7_20MHz_16QAM_21100_1RB#0



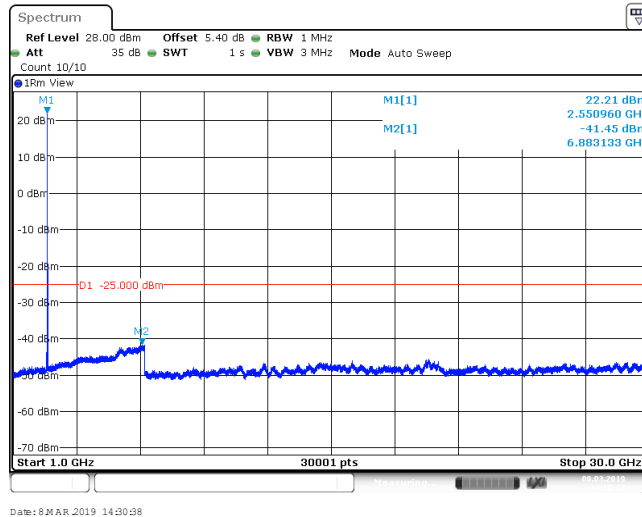
Band7_20MHz_16QAM_21350_1RB#0



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Band7_20MHz_16QAM_21350_1RB#0



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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
48.7704	-69.89	-25.00	44.89	Vertical
111.6296	-65.45	-25.00	40.45	Vertical
1379.6759	-48.23	-25.00	23.23	Vertical
2699.5399	-37.34	-25.00	12.34	Vertical
8769.2308	-51.96	-25.00	26.96	Vertical
17945.9978	-34.65	-25.00	9.65	Vertical
42.7076	-64.88	-25.00	39.88	Horizontal
223.6702	-69.19	-25.00	44.19	Horizontal
1752.1504	-44.76	-25.00	19.76	Horizontal
2694.3389	-36.38	-25.00	11.38	Horizontal
7475.5790	-53.50	-25.00	28.50	Horizontal
16405.1362	-38.54	-25.00	13.54	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
44.9872	-70.57	-25.00	45.57	Vertical
111.7751	-65.18	-25.00	40.18	Vertical
1184.4369	-48.80	-25.00	23.80	Vertical
2704.7409	-37.54	-25.00	12.54	Vertical
9098.0439	-50.55	-25.00	25.55	Vertical
17996.3999	-33.25	-25.00	8.25	Vertical
42.0771	-64.65	-25.00	39.65	Horizontal
245.4963	-68.93	-25.00	43.93	Horizontal
1237.2474	-48.53	-25.00	23.53	Horizontal
2702.7405	-36.26	-25.00	11.26	Horizontal
8483.6193	-53.05	-25.00	28.05	Horizontal
17995.7998	-37.99	-25.00	12.99	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7704	-69.66	-25.00	44.66	Vertical
103.3842	-64.81	-25.00	39.81	Vertical
1166.0332	-48.92	-25.00	23.92	Vertical
3000.0000	-38.21	-25.00	13.21	Vertical
9297.8519	-49.41	-25.00	24.41	Vertical
17993.9998	-33.08	-25.00	8.08	Vertical
42.8531	-64.26	-25.00	39.26	Horizontal
240.1610	-68.85	-25.00	43.85	Horizontal
1611.7223	-45.06	-25.00	20.06	Horizontal
2687.5375	-36.23	-25.00	11.23	Horizontal
8004.8002	-53.36	-25.00	28.36	Horizontal
16403.3361	-38.39	-25.00	13.39	Horizontal

Remark:

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 had been displayed.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

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	6.57	0.002618	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	7.40	0.002948	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	6.65	0.002649	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-8.33	-0.003286	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-9.38	-0.003700	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-8.93	-0.003523	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	6.07	0.002371	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	6.47	0.002527	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	4.92	0.001922	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	5.15	0.002052	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	6.75	0.002689	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	6.18	0.002462	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-11.76	-0.004639	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-8.77	-0.003460	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-8.57	-0.003381	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-4.92	-0.001922	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-7.68	-0.003000	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-4.81	-0.001879	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-5.97	-0.002378	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	7.30	0.002908	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	6.39	0.002546	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	7.14	0.002845	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	5.21	0.002076	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	5.38	0.002143	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	5.26	0.002096	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	7.04	0.002805	±2.5	PASS



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Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-7.68	-0.003030	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-8.85	-0.003491	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-9.17	-0.003617	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-7.80	-0.003077	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-9.03	-0.003562	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-8.88	-0.003503	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-10.29	-0.004059	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-7.18	-0.002832	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-5.65	-0.002207	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	4.31	0.001684	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	6.52	0.002547	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-6.94	-0.002711	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	5.75	0.002246	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	6.28	0.002453	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	4.52	0.001766	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-5.25	-0.002051	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	7.72	0.003076	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	8.07	0.003215	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	6.51	0.002594	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	7.12	0.002837	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	7.85	0.003127	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	7.42	0.002956	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	8.81	0.003510	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	4.68	0.001865	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-5.89	-0.002323	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-7.75	-0.003057	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-8.01	-0.003160	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-9.40	-0.003708	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-7.70	-0.003037	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-8.74	-0.003448	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-8.47	-0.003341	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-9.01	-0.003554	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	5.06	0.001977	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-6.15	-0.002402	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	6.17	0.002410	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	5.38	0.002102	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	6.90	0.002695	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	6.45	0.002520	±2.5	PASS



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Band7	20MHz	16QAM	21350	100RB#0	NV	40	6.51	0.002543	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	5.94	0.002320	±2.5	PASS

The End



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