



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	22.50	22.60	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.49	22.59	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.14	22.24	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.58	21.68	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.63	21.73	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.38	21.48	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.54	21.64	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.11	22.21	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.13	22.23	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.05	22.15	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.15	21.25	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.31	21.41	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.23	21.33	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.12	21.22	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.19	22.29	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.31	22.41	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.34	22.44	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.36	21.46	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.40	21.50	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.41	21.51	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.42	21.52	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.09	22.19	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.99	22.09	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.49	21.59	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.60	20.70	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.66	20.76	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.54	20.64	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.61	20.71	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.30	21.40	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.44	21.54	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.89	21.99	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.26	20.36	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.32	20.42	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.27	20.37	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.18	20.28	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.61	21.71	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.81	21.91	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.90	22.00	33.00	PASS





Band7	5MHz	16QAM	21425	12RB#0	20.49	20.59	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.64	20.74	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.53	20.63	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.51	20.61	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.64	22.74	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.41	22.51	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.20	22.30	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.53	21.63	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.55	21.65	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.32	21.42	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.60	21.70	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.22	22.32	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.20	22.30	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.19	22.29	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.30	21.40	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.27	21.37	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.28	21.38	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.30	21.40	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.32	22.42	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.31	22.41	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.34	22.44	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.43	21.53	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.50	21.60	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.41	21.51	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.51	21.61	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.82	21.92	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.08	22.18	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.84	21.94	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.70	20.80	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.57	20.67	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.54	20.64	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.35	20.45	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.98	22.08	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.42	21.52	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.84	21.94	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.30	20.40	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.32	20.42	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.31	20.41	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.31	20.41	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.03	22.13	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.49	21.59	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.56	21.66	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.41	20.51	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.56	20.66	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.50	20.60	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.49	20.59	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.28	22.38	33.00	PASS



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Band7	15MHz	QPSK	20825	1RB#38	22.40	22.50	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.11	22.21	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	21.49	21.59	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	21.43	21.53	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	21.26	21.36	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.43	21.53	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.14	22.24	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.18	22.28	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.13	22.23	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	21.19	21.29	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	21.24	21.34	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	21.26	21.36	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.17	21.27	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.19	22.29	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.21	22.31	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.37	22.47	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	21.36	21.46	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	21.34	21.44	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.37	21.47	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.45	21.55	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.58	21.68	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.40	21.50	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.40	21.50	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	20.45	20.55	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	20.44	20.54	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	20.29	20.39	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.41	20.51	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.19	21.29	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.20	21.30	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.24	21.34	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	20.23	20.33	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	20.28	20.38	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	20.28	20.38	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.32	20.42	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.45	21.55	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.83	21.93	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.48	21.58	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	20.35	20.45	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	20.46	20.56	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.45	20.55	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.53	20.63	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.30	22.40	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.34	22.44	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.92	22.02	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.43	21.53	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	21.48	21.58	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.39	21.49	33.00	PASS



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Band7	20MHz	QPSK	20850	100RB#0	21.42	21.52	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.93	22.03	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.36	22.46	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	21.75	21.85	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.26	21.36	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.29	21.39	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.14	21.24	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.29	21.39	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	21.94	22.04	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.40	22.50	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.02	22.12	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.46	21.56	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.48	21.58	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.23	21.33	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.25	21.35	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.54	21.64	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.37	21.47	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.06	21.16	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.45	20.55	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.43	20.53	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.36	20.46	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.48	20.58	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.21	21.31	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.85	21.95	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.11	21.21	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.34	20.44	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.35	20.45	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.32	20.42	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.38	20.48	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.31	21.41	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.48	21.58	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.36	21.46	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.39	20.49	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.49	20.59	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.36	20.46	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.37	20.47	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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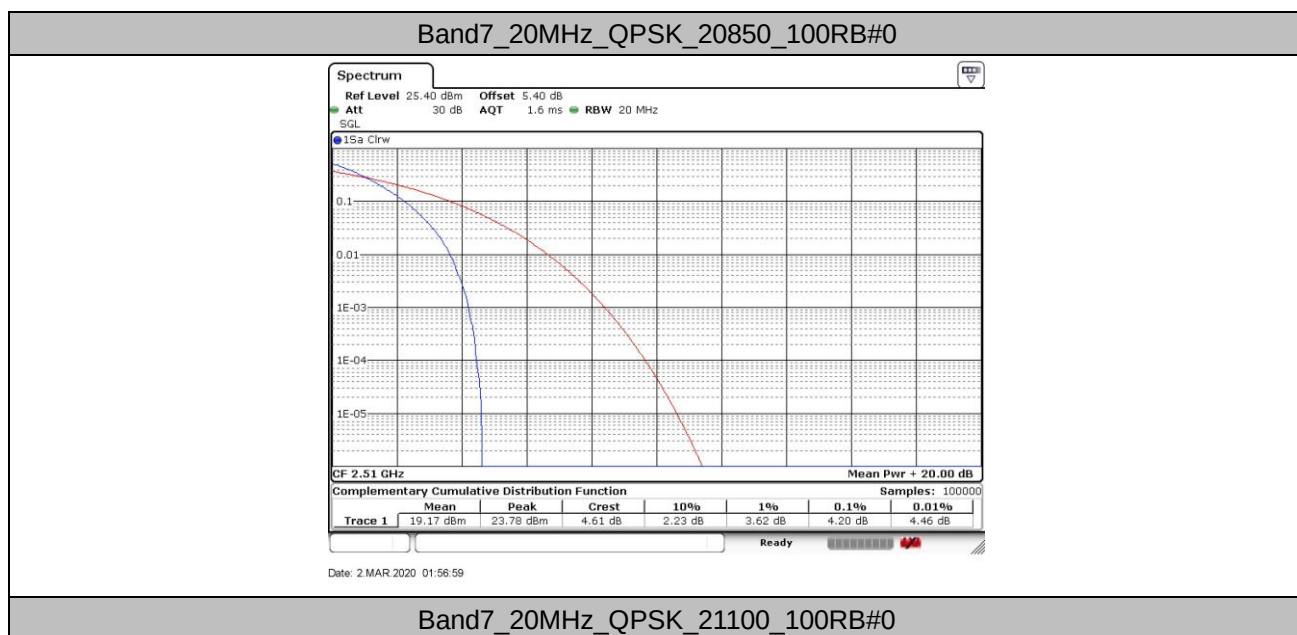
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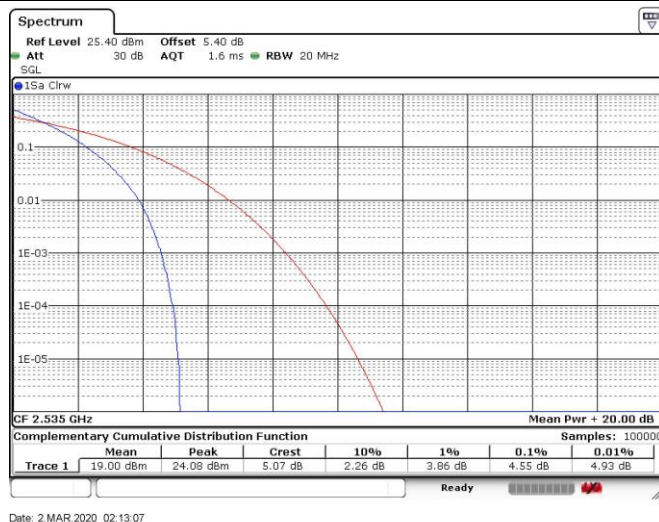
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

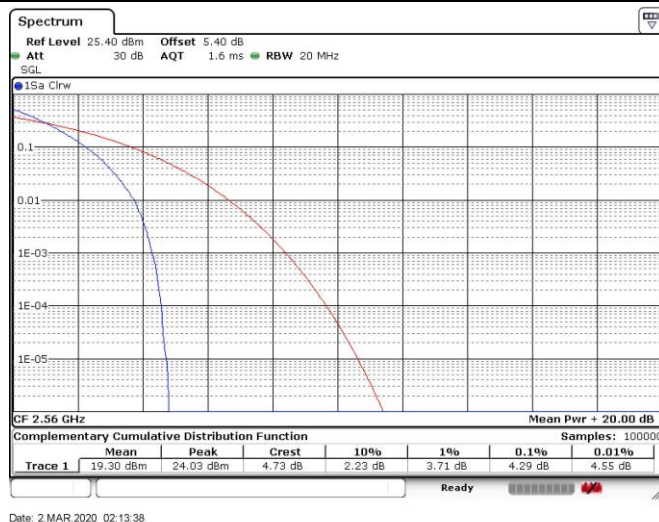
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	4.20	13.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.55	13.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.29	13.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.88	13.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.20	13.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.00	13.00	PASS

2.2. Test Plots



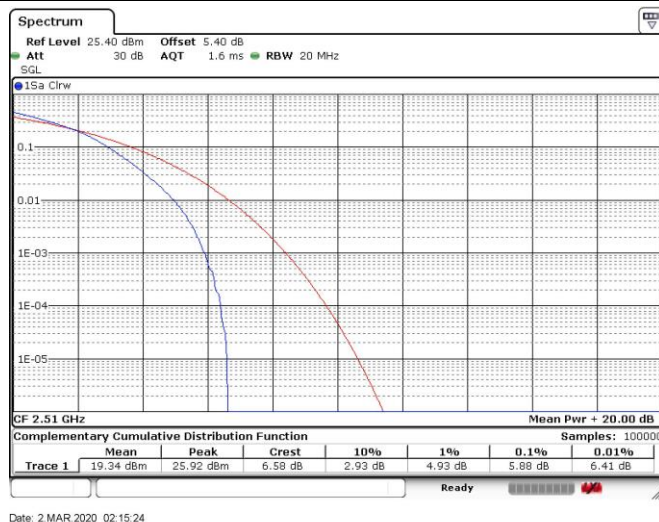


Band7_20MHz_QPSK_21350_100RB#0



Band7_20MHz_16QAM_20850_100RB#0





Date: 2 MAR 2020 02:15:24

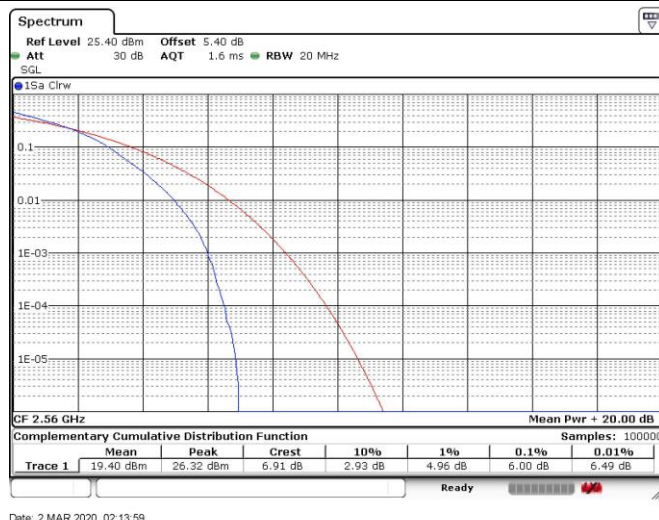
Band7_20MHz_16QAM_21100_100RB#0



Date: 2 MAR 2020 02:14:52

Band7_20MHz_16QAM_21350_100RB#0





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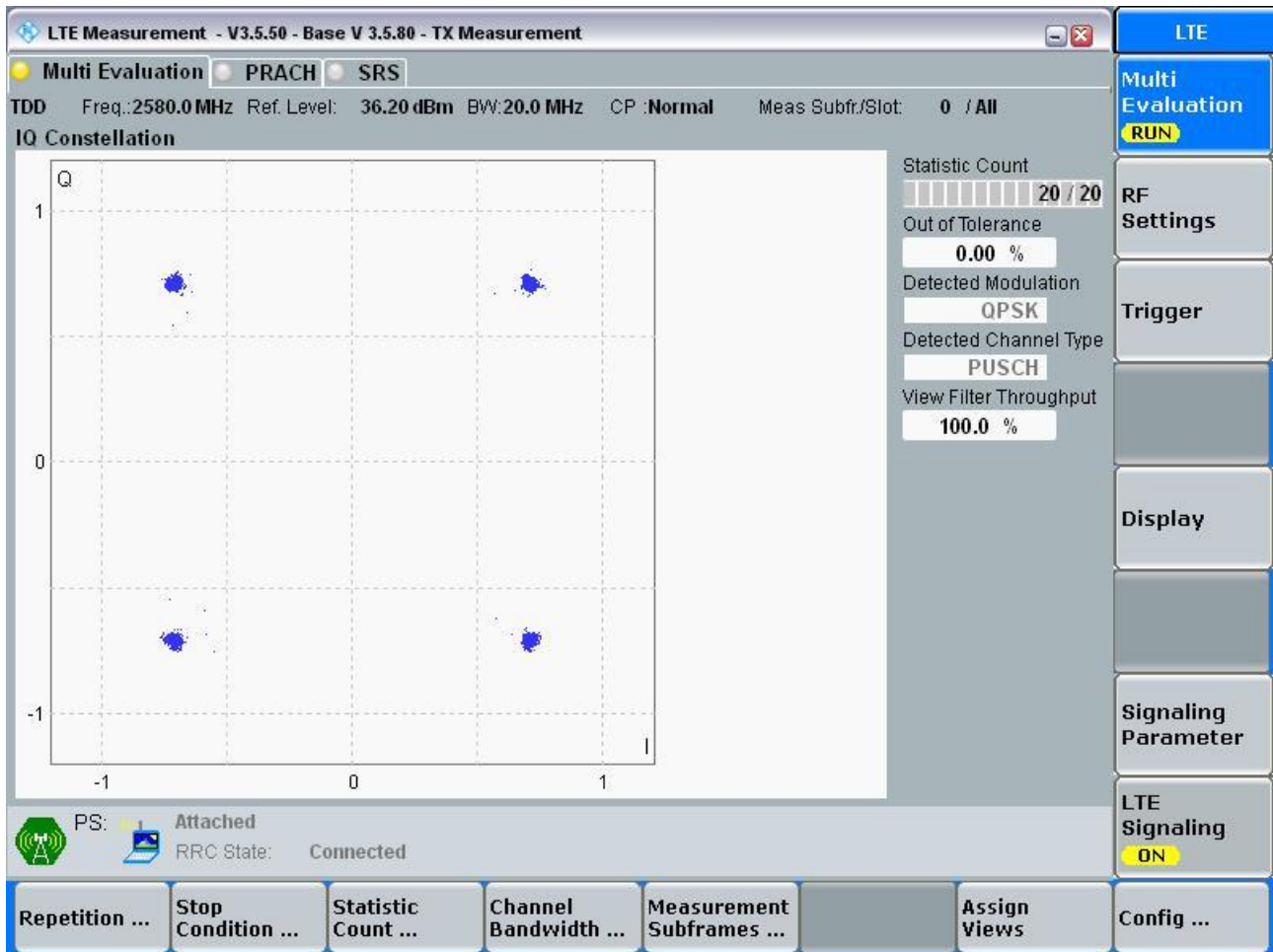
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3. Modulation Characteristics

3.1. Test Band = LTE Band 7

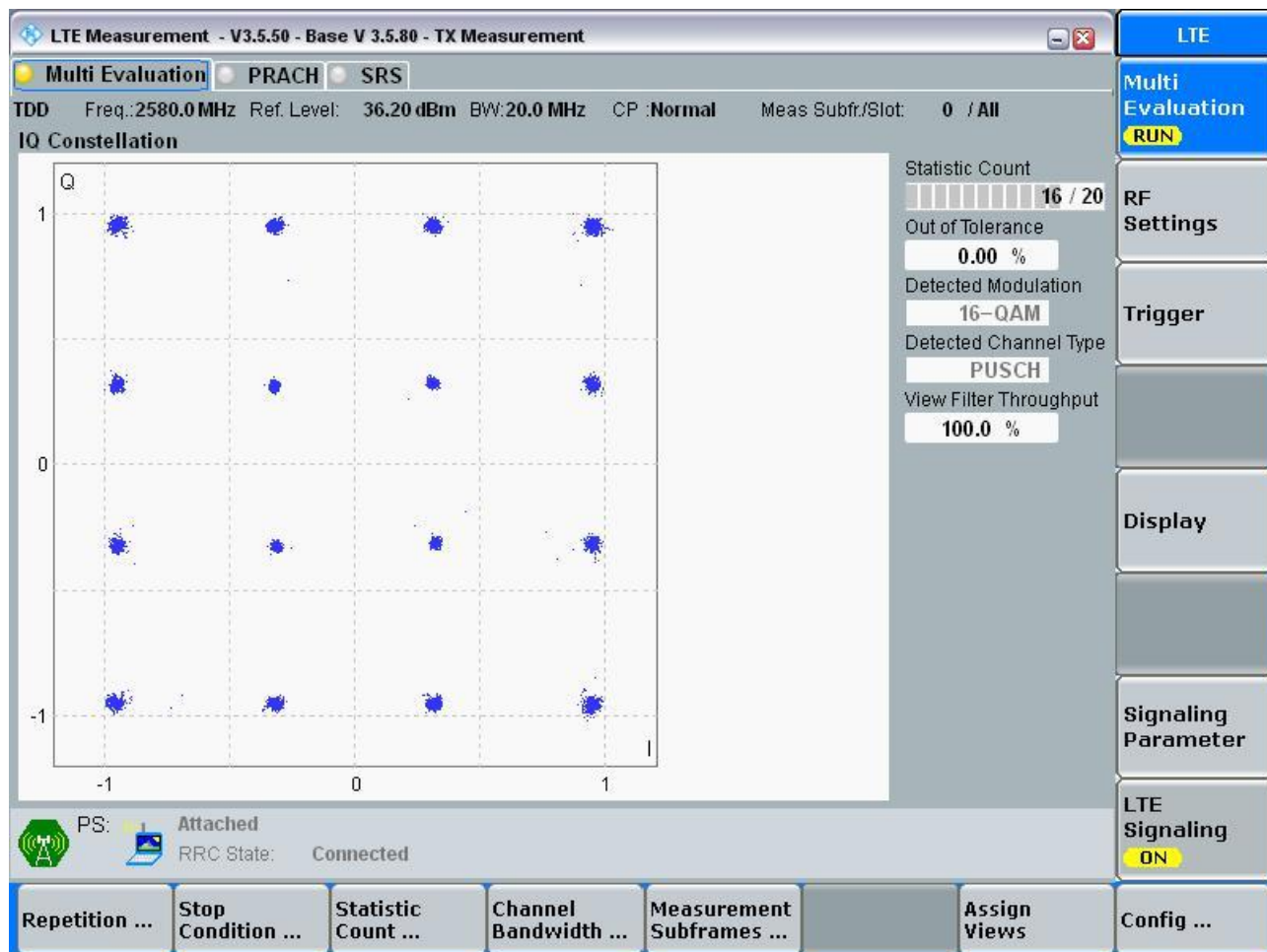
3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = LCH



3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = LCH



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4. 26dB Bandwidth and Occupied Bandwidth

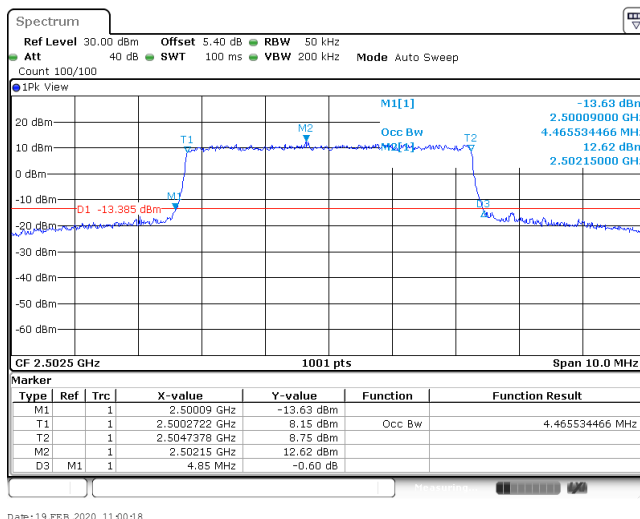
4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.466	4.850	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.840	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	5.270	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.466	4.860	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.466	4.860	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.466	4.810	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.951	9.560	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.911	9.560	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.951	9.880	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.931	9.540	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.931	9.600	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.931	9.600	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.487	15.690	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.427	14.790	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.516	15.420	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.760	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.457	14.670	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.487	14.670	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.982	19.600	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.902	19.600	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.942	19.240	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	20.040	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.902	19.360	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.942	19.240	PASS

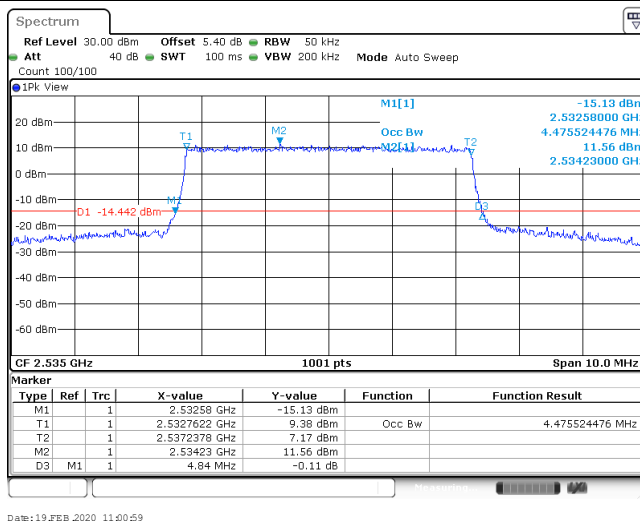


4.2. Test Plots

Band7_5MHz_QPSK_20775_25RB#0

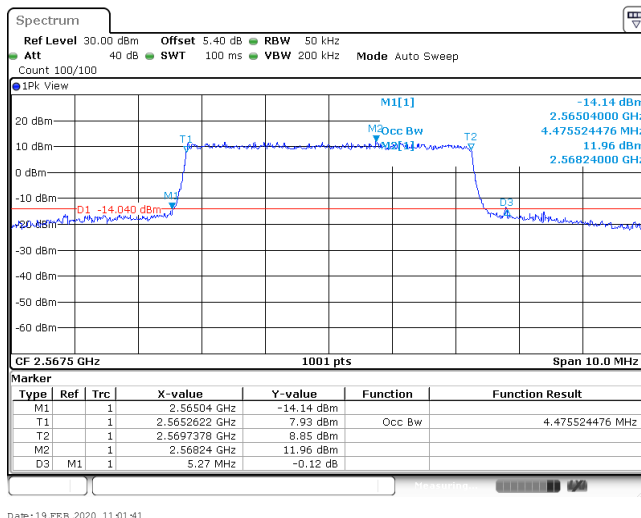


Band7_5MHz_QPSK_21100_25RB#0



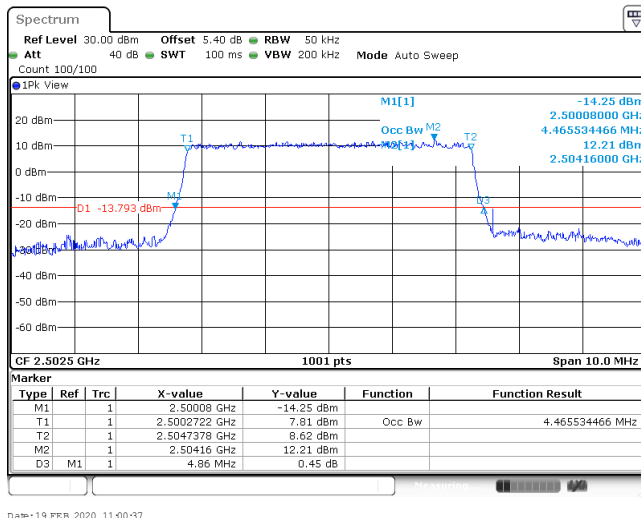
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Date: 19 FEB 2020 11:01:41

Band7_5MHz_16QAM_20775_25RB#0



Date: 19 FEB 2020 11:00:37

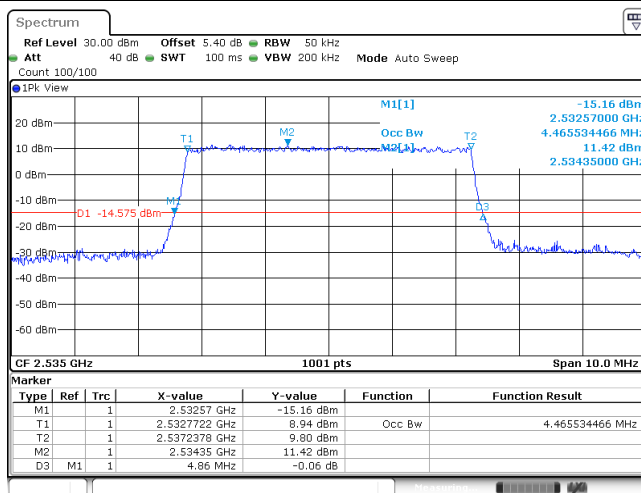
Band7_5MHz_16QAM_21100_25RB#0



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Shenzhen Branch (ECC Laboratory)

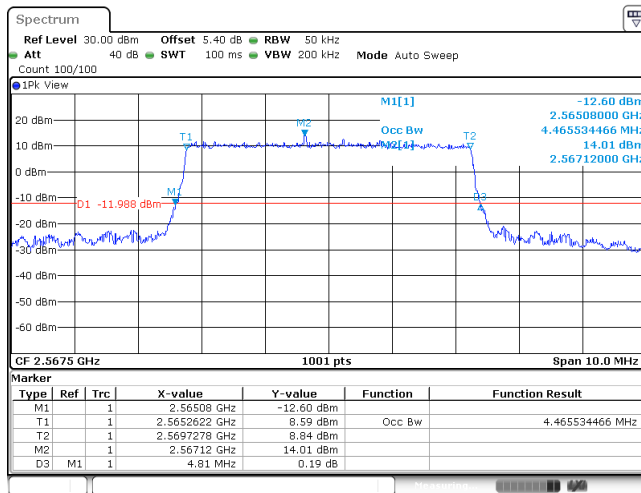
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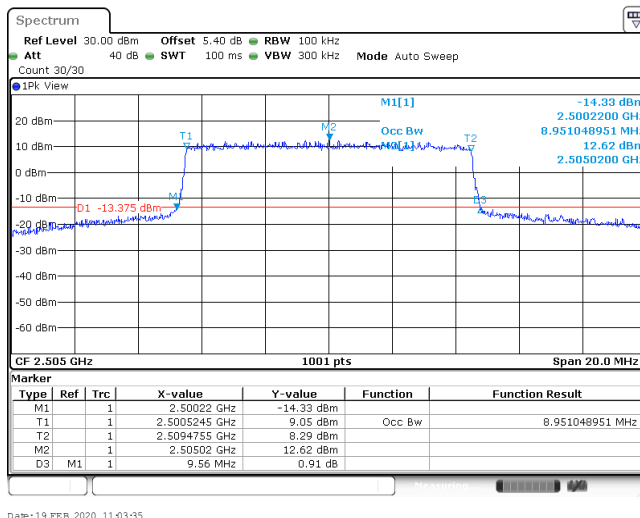
Band7_5MHz_16QAM_21425_25RB#0



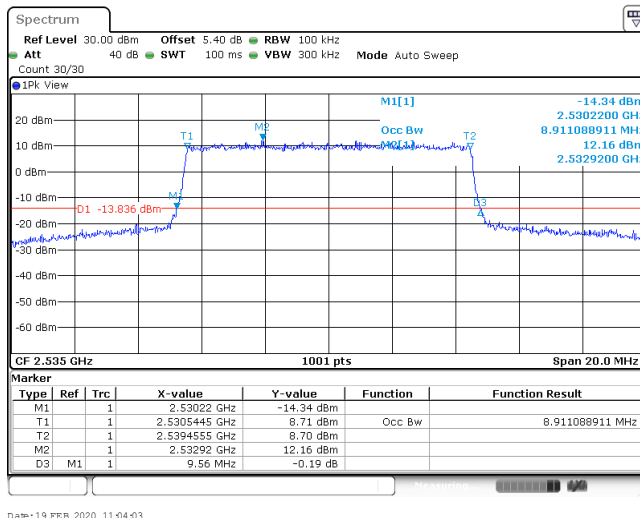
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Band7_10MHz_QPSK_20800_50RB#0





Band7_10MHz_QPSK_21100_50RB#0



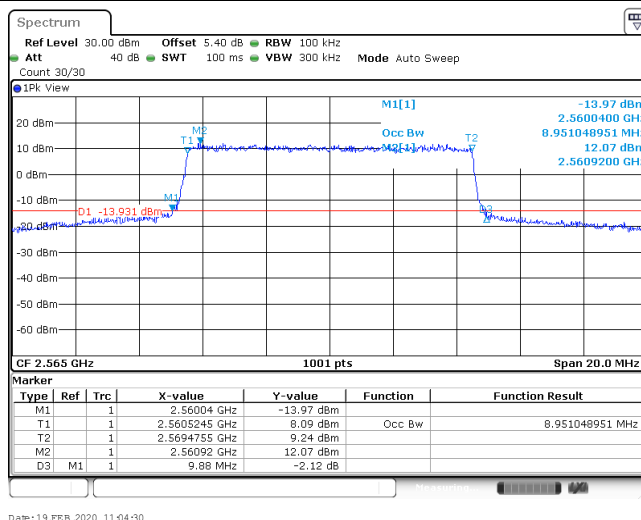
Band7_10MHz_QPSK_21400_50RB#0



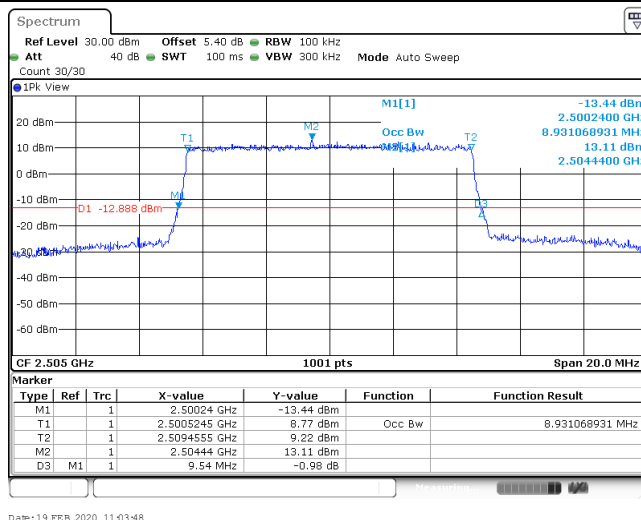
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Band7_10MHz_16QAM_20800_50RB#0



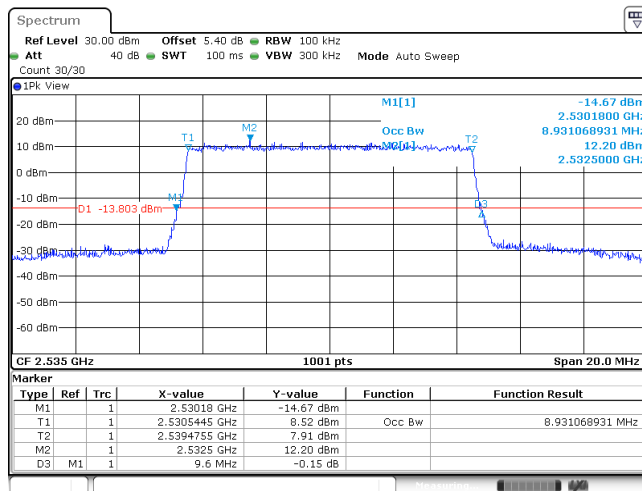
Band7_10MHz_16QAM_21100_50RB#0



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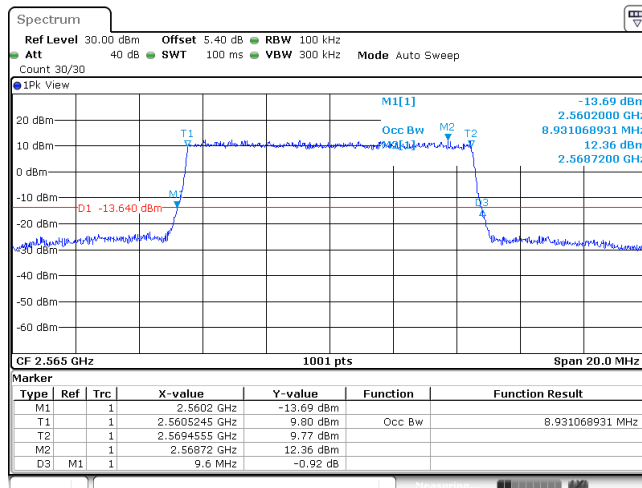
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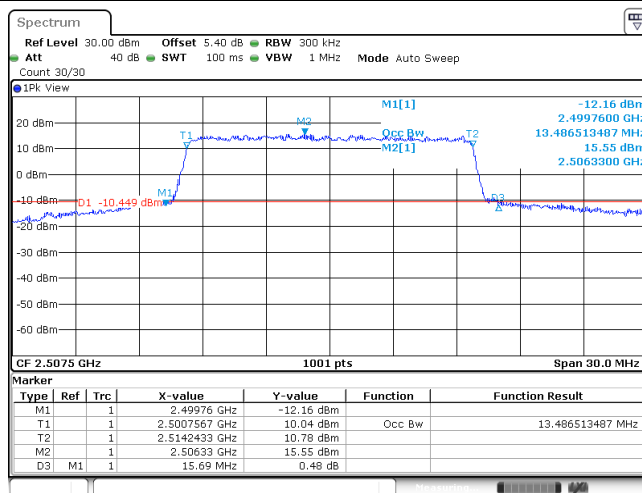
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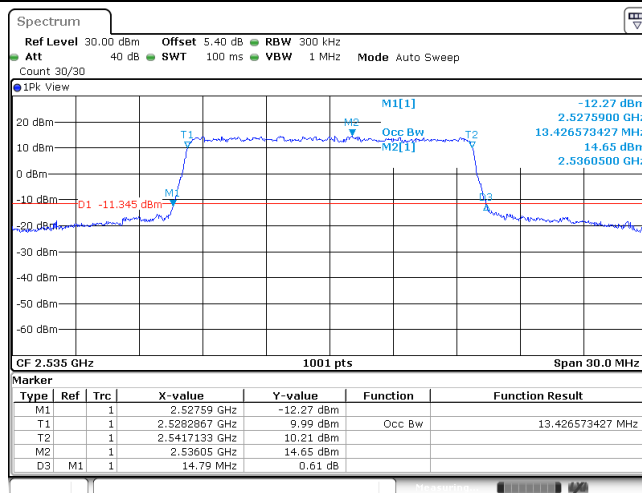
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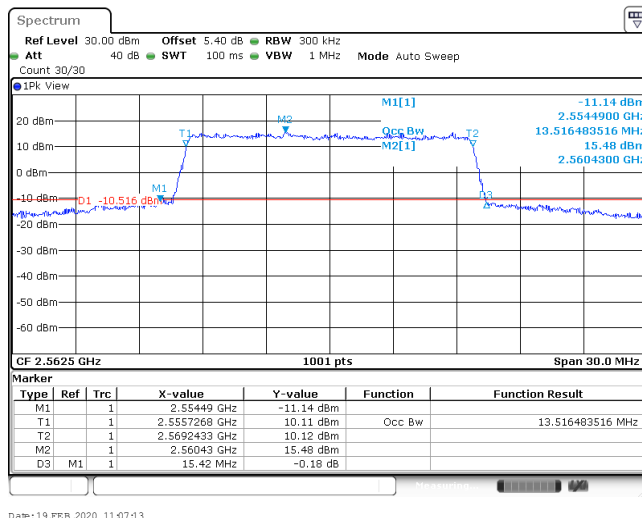
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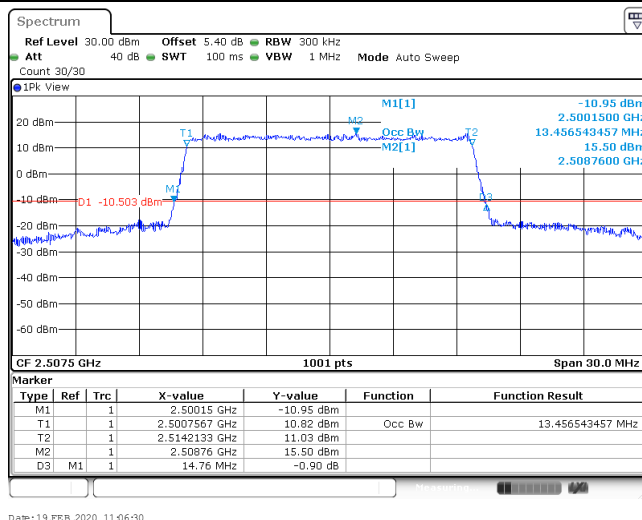
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Band7_15MHz_QPSK_21375_75RB#0



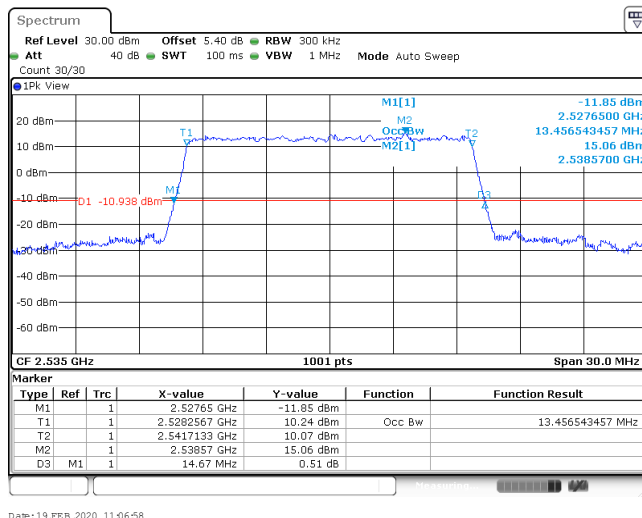


Band7_15MHz_16QAM_20825_75RB#0



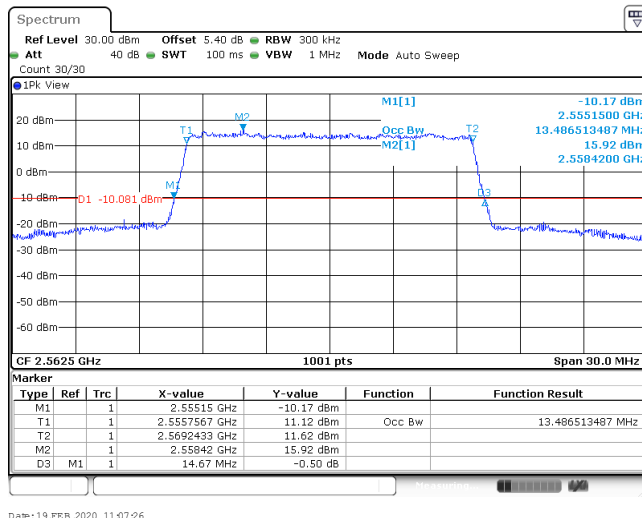
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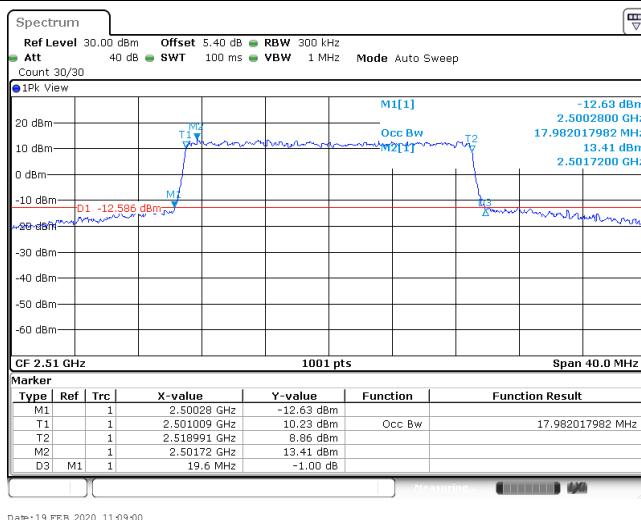
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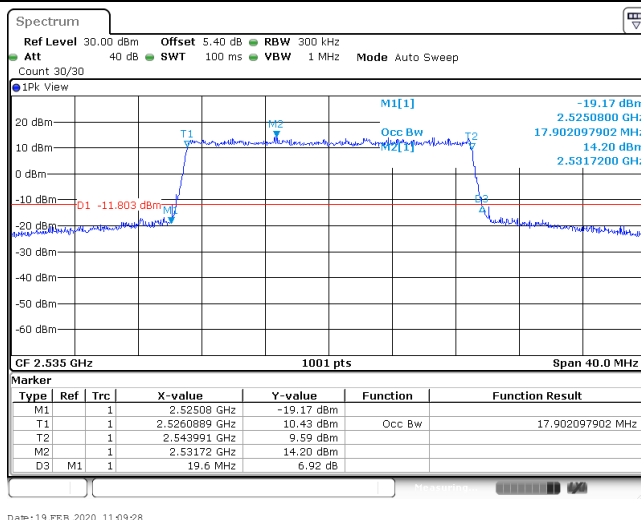
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Band7_20MHz_QPSK_20850_100RB#0



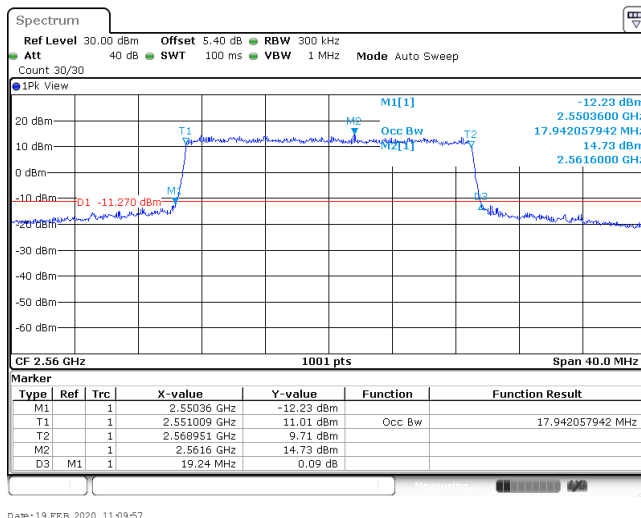


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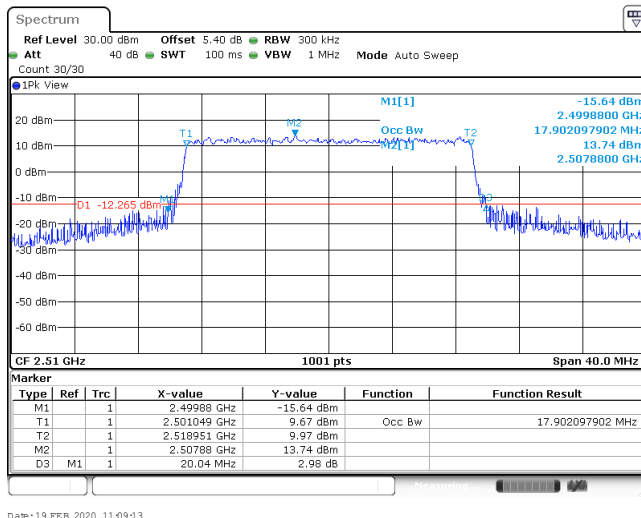
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Date: 19 FEB 2020 11:09:57

Band7_20MHz_16QAM_20850_100RB#0



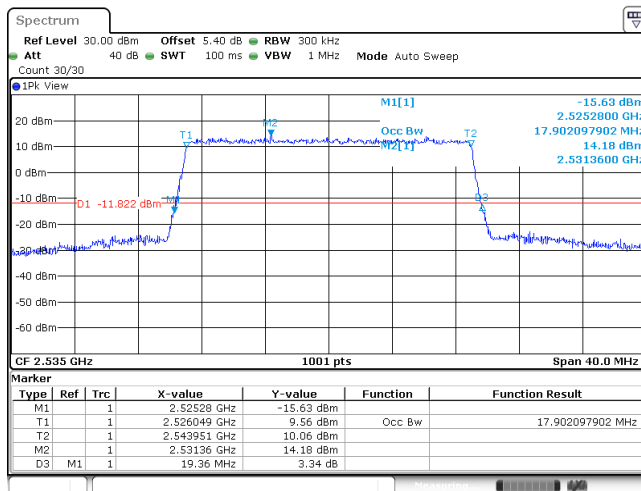
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Band7_20MHz_16QAM_21100_100RB#0



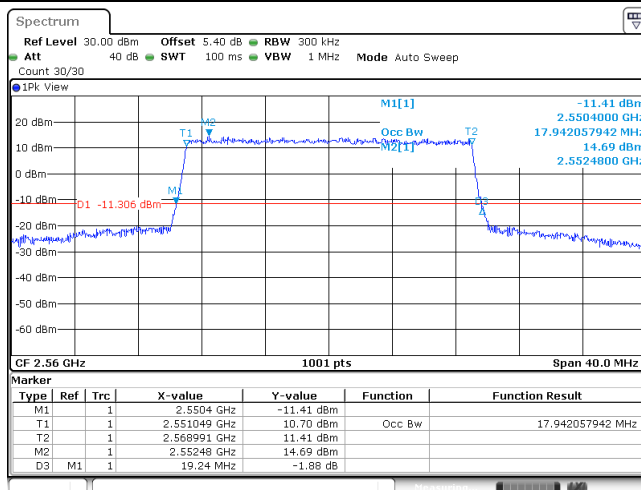
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Date:19.FEB.2020 11:09:41

Band7_20MHz_16QAM_21350_100RB#0



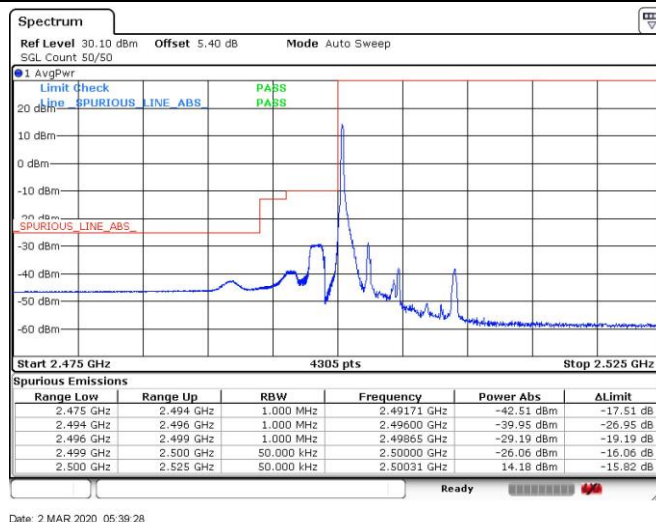
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5. Band Edge Compliance

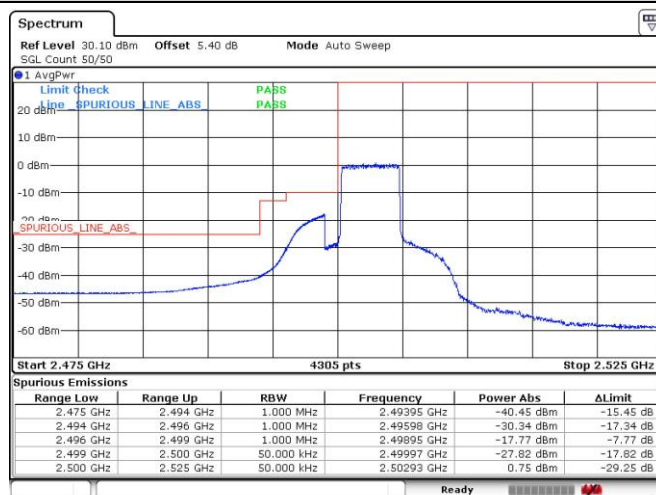
5.1. Test Plots

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



Date: 2 MAR 2020 05:39:28

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



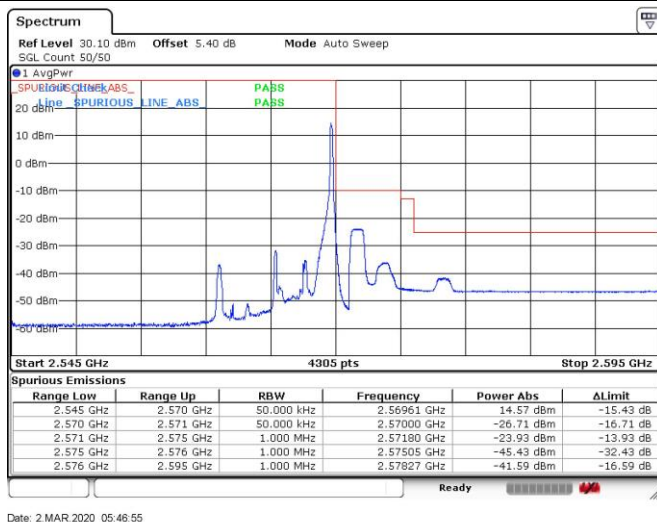
Date: 2 MAR 2020 05:38:30

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



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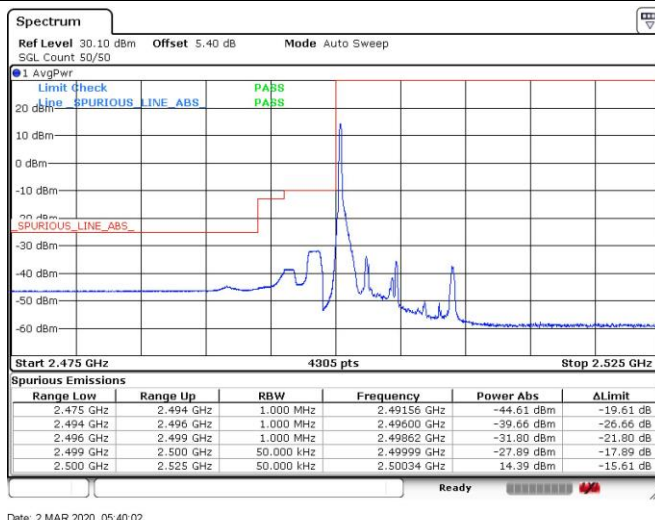


Band7-5MHz-QPSK-21425-25RB#0

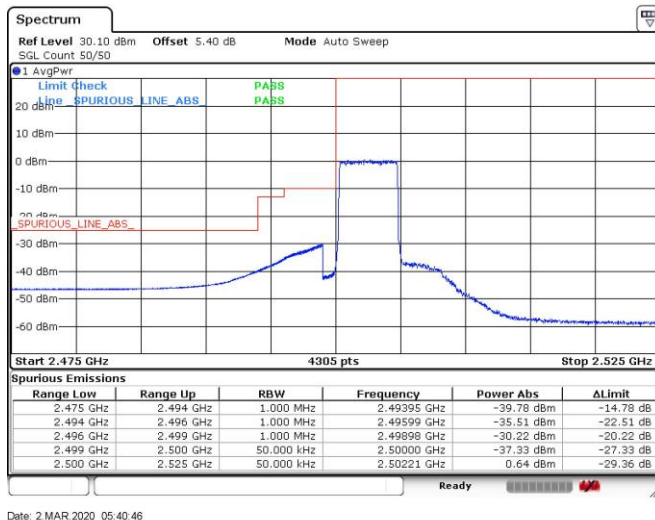


Band7-5MHz-16QAM-20775-1RB#0





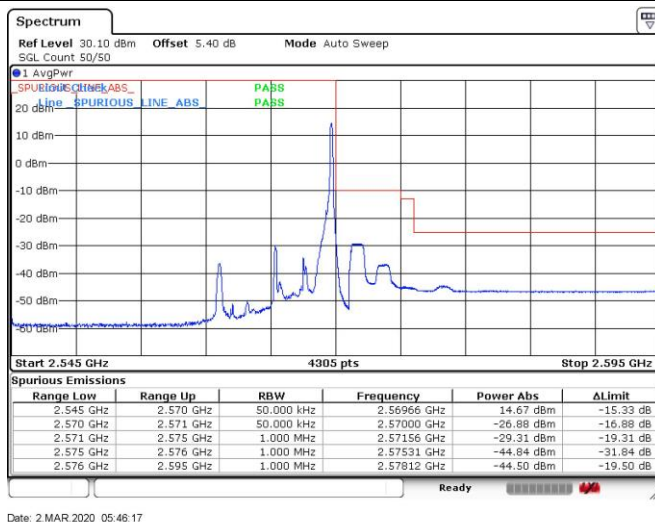
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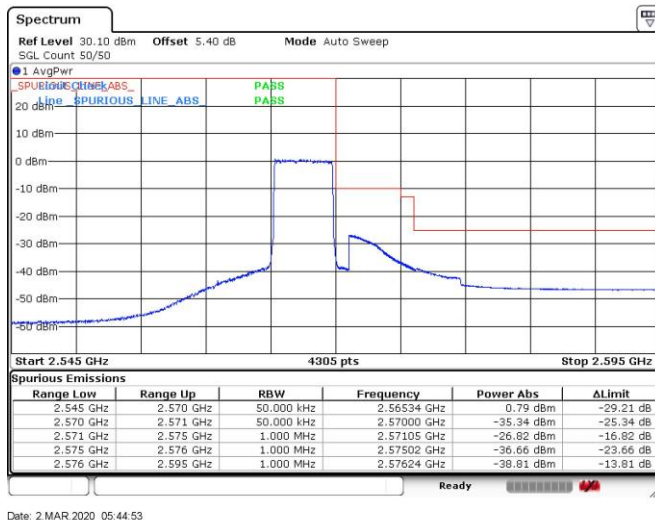
Band7-5MHz-16QAM-21425-1RB#24



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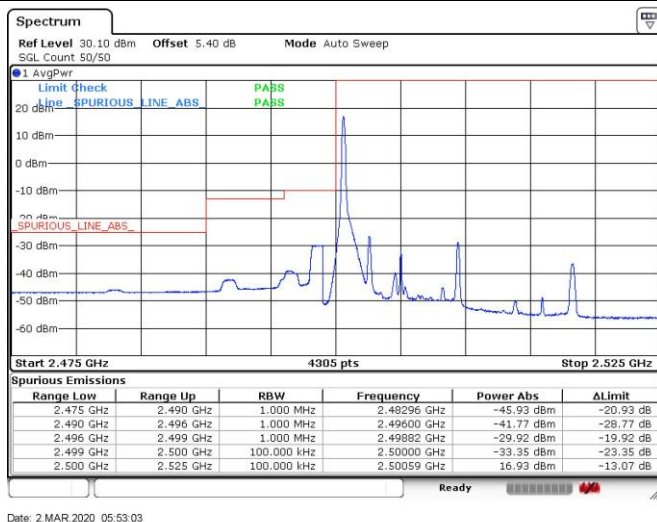


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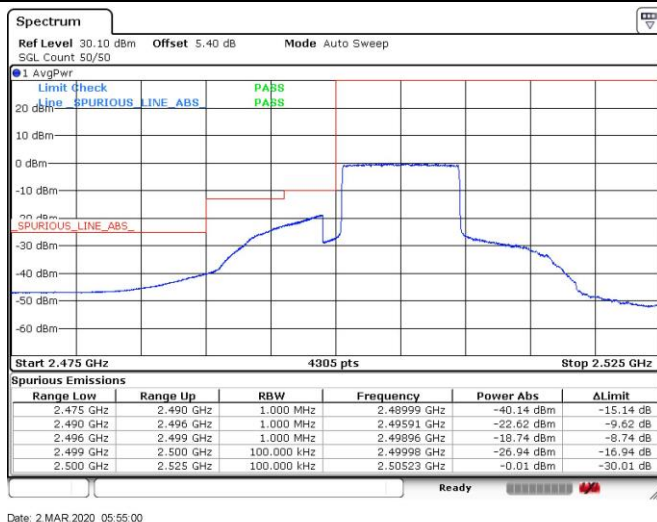


Band7-10MHz-QPSK-20800-1RB#0



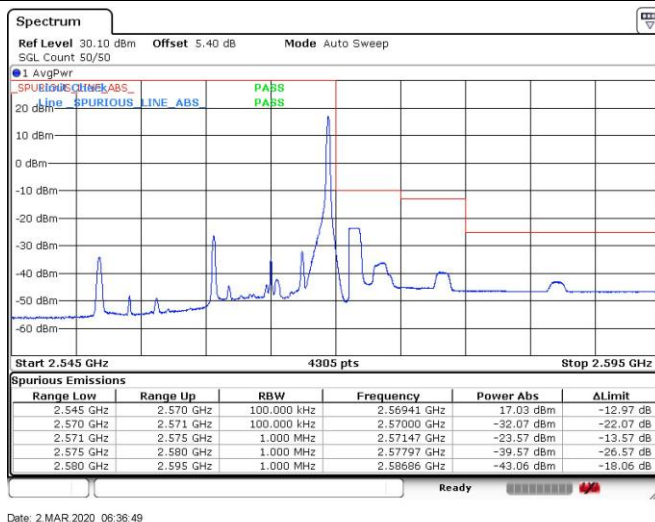


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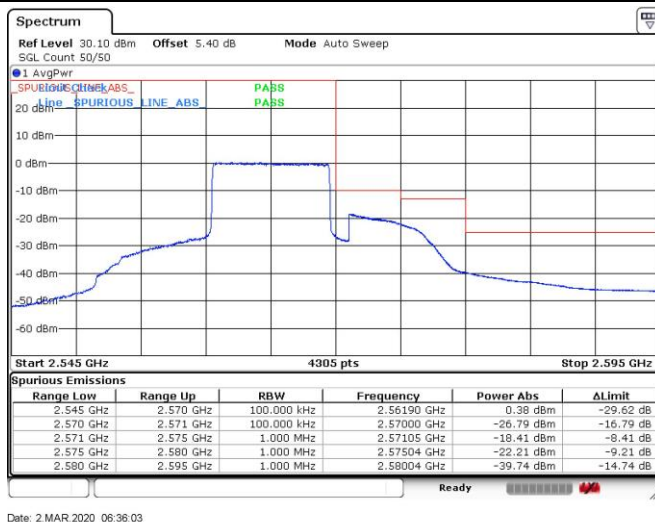


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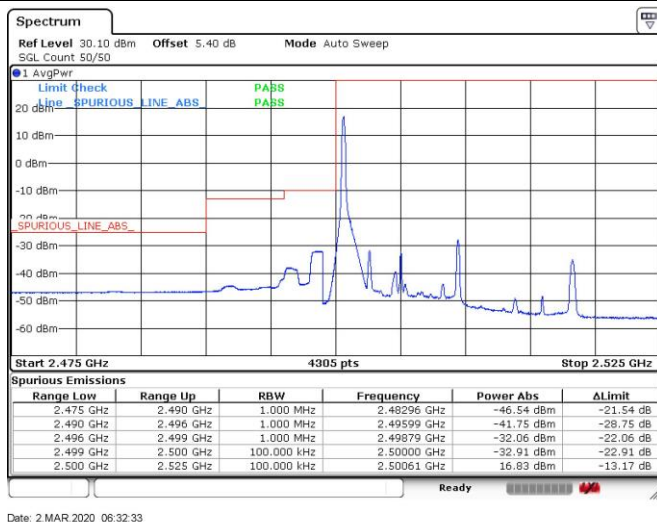


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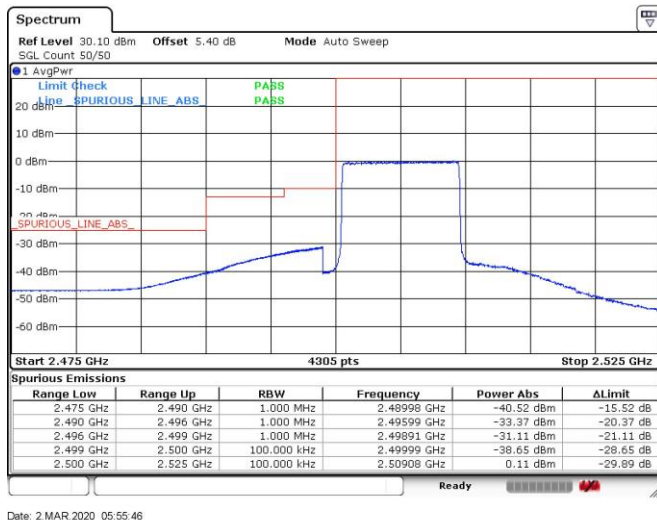
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Date: 2 MAR 2020 06:32:33

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



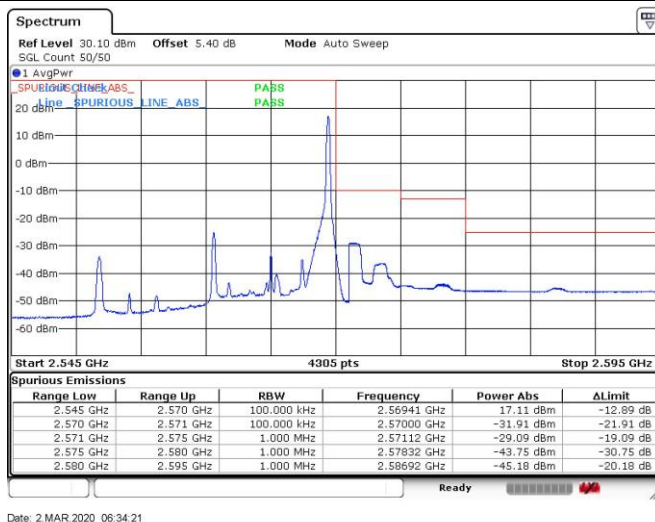
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Band7-10MHz-16QAM-21400-1RB#49

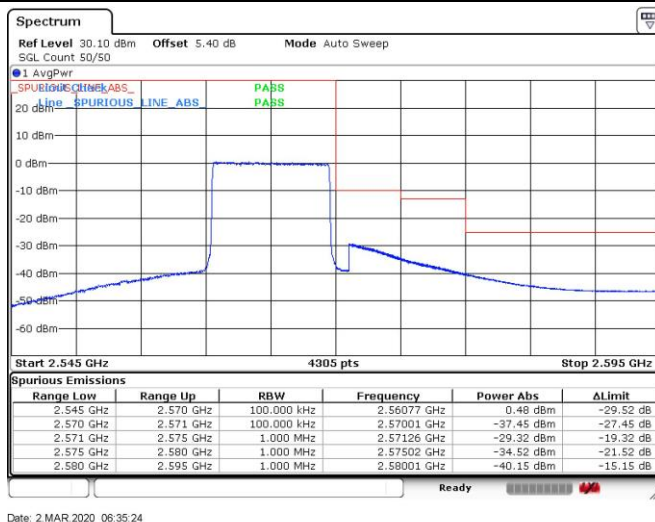


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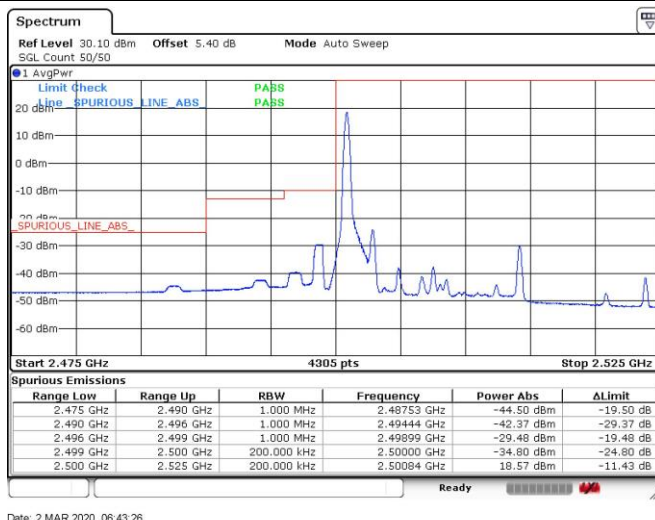


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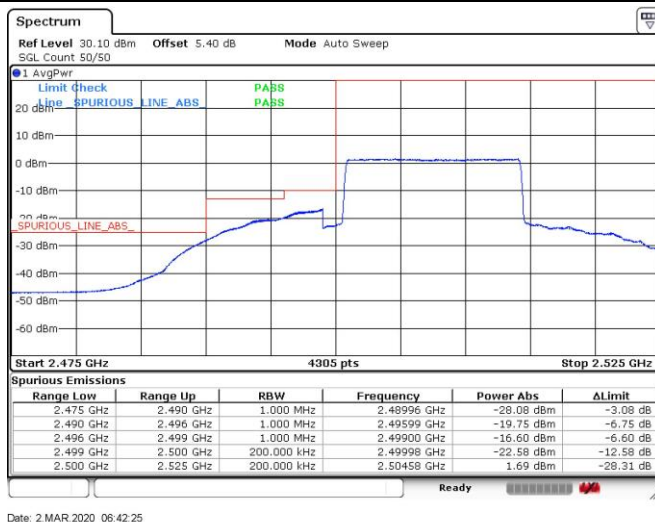


Band7-15MHz-QPSK-20825-1RB#



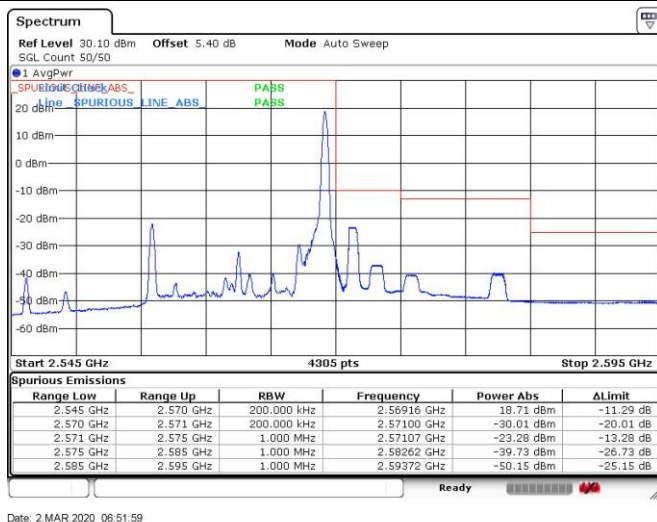


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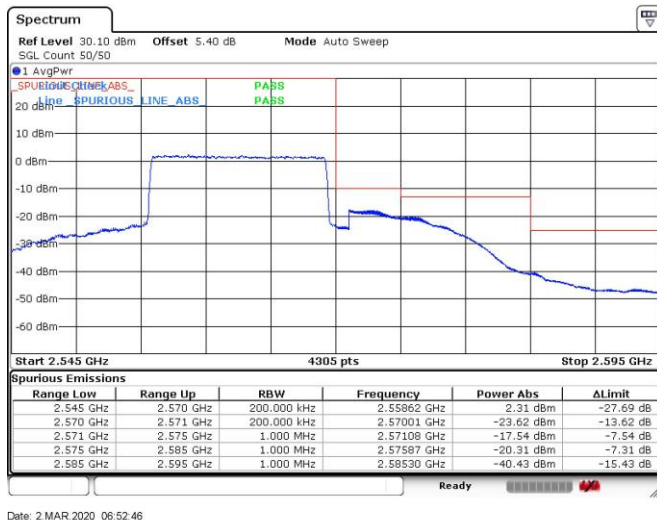


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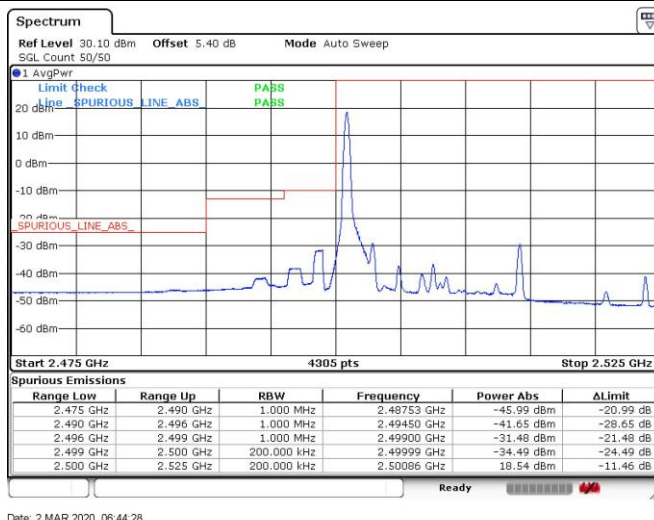


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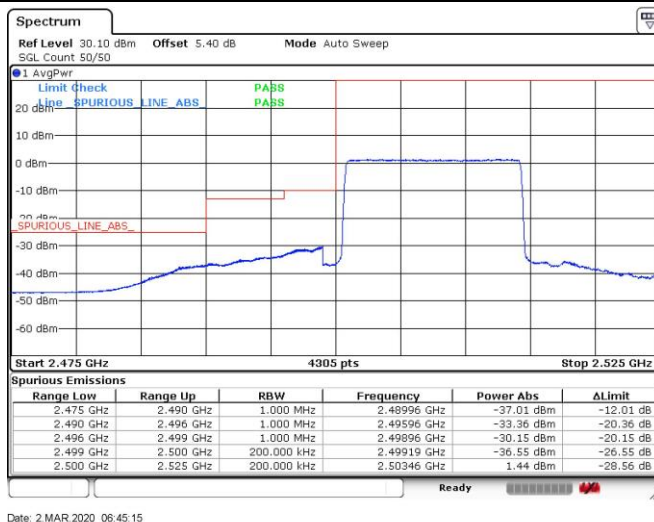


Band7-15MHz-16QAM-20825-1RB#0





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

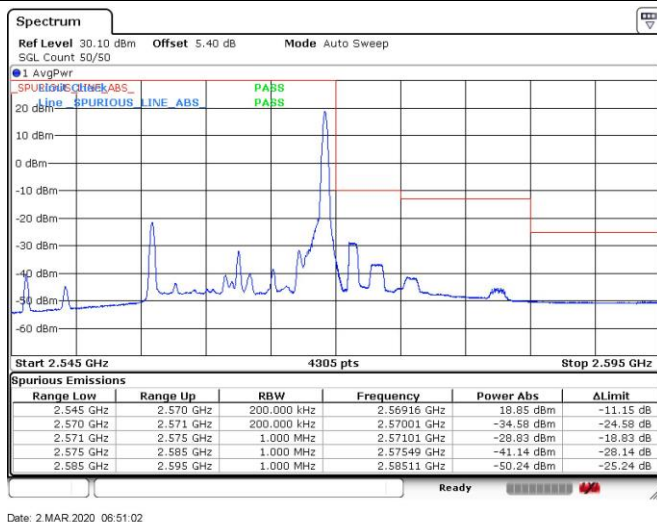


Band7-15MHz-16QAM-21375-1RB#74

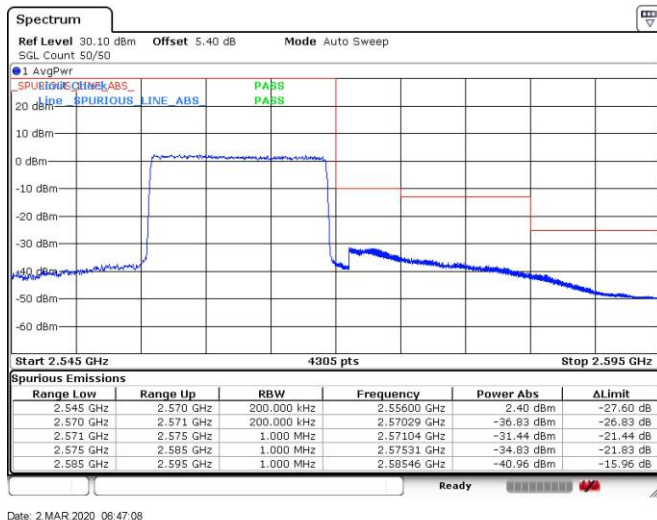


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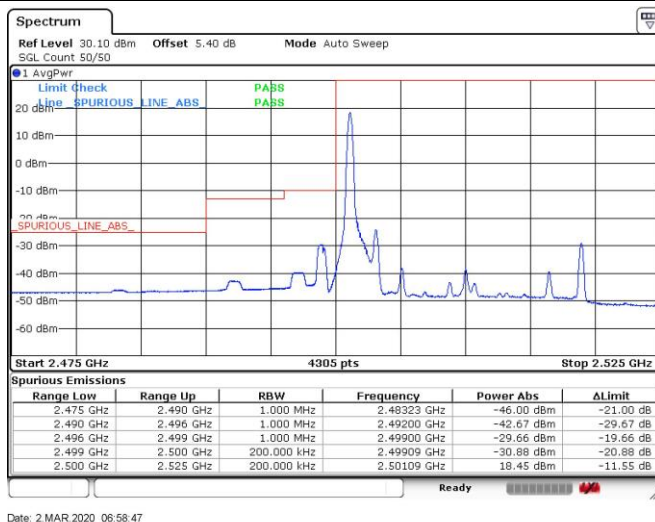


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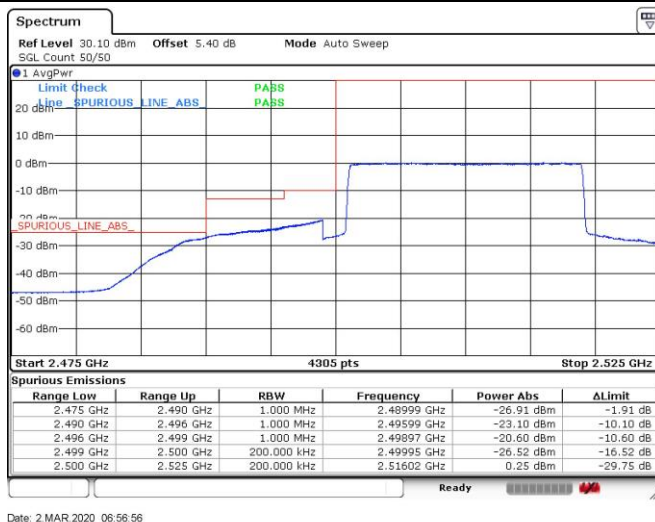


Band7-20MHz-QPSK-20850-1RB#0



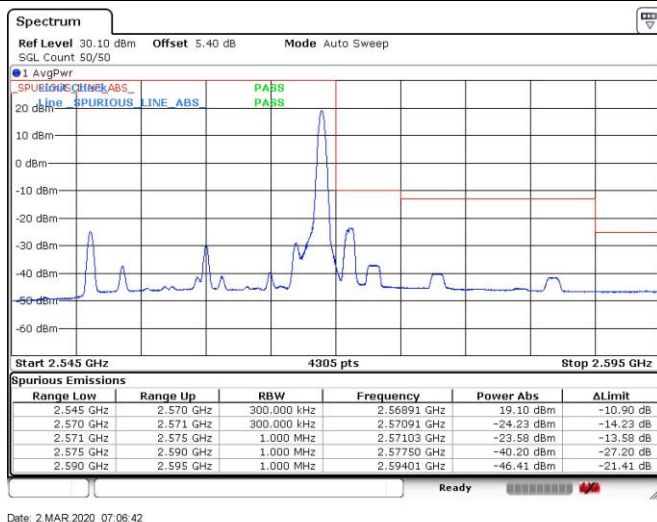


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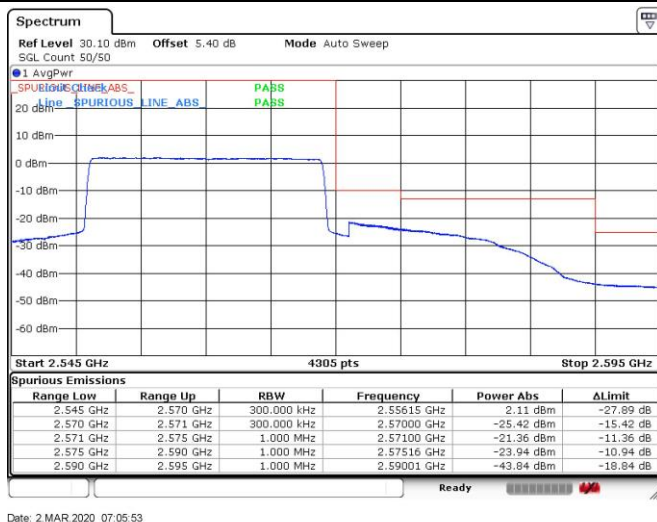


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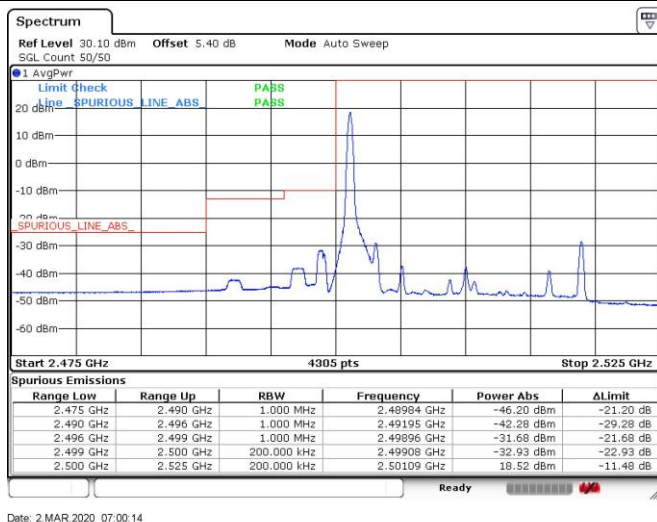


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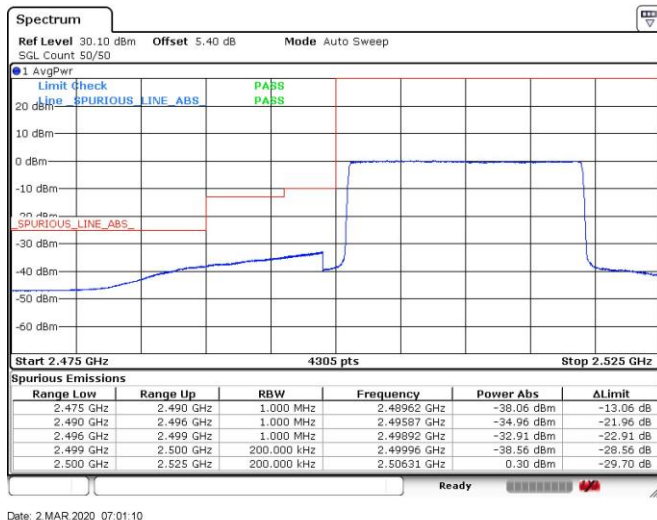
Band7-20MHz-16QAM-20850-1RB#0





Date: 2 MAR 2020 07:00:14

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



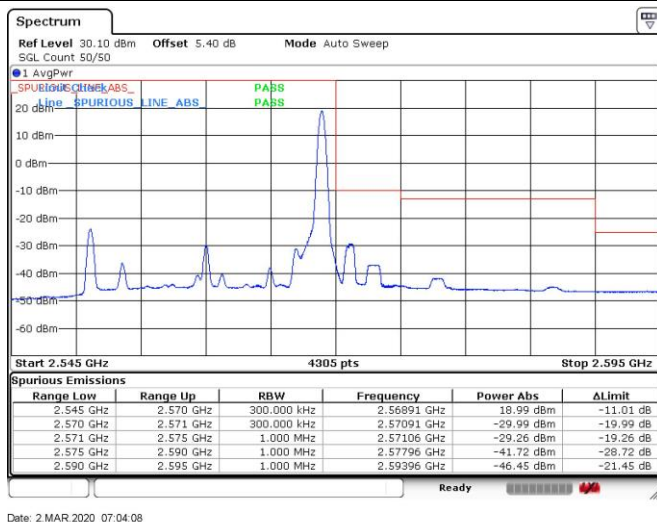
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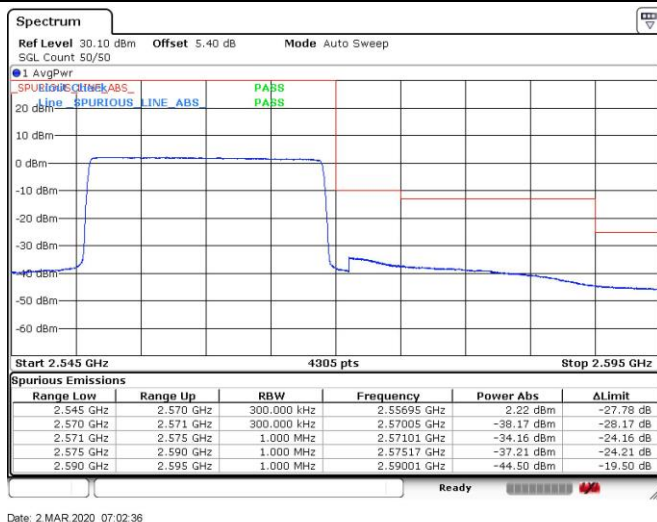


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Band7-20MHz-16QAM-21350-100RB#0



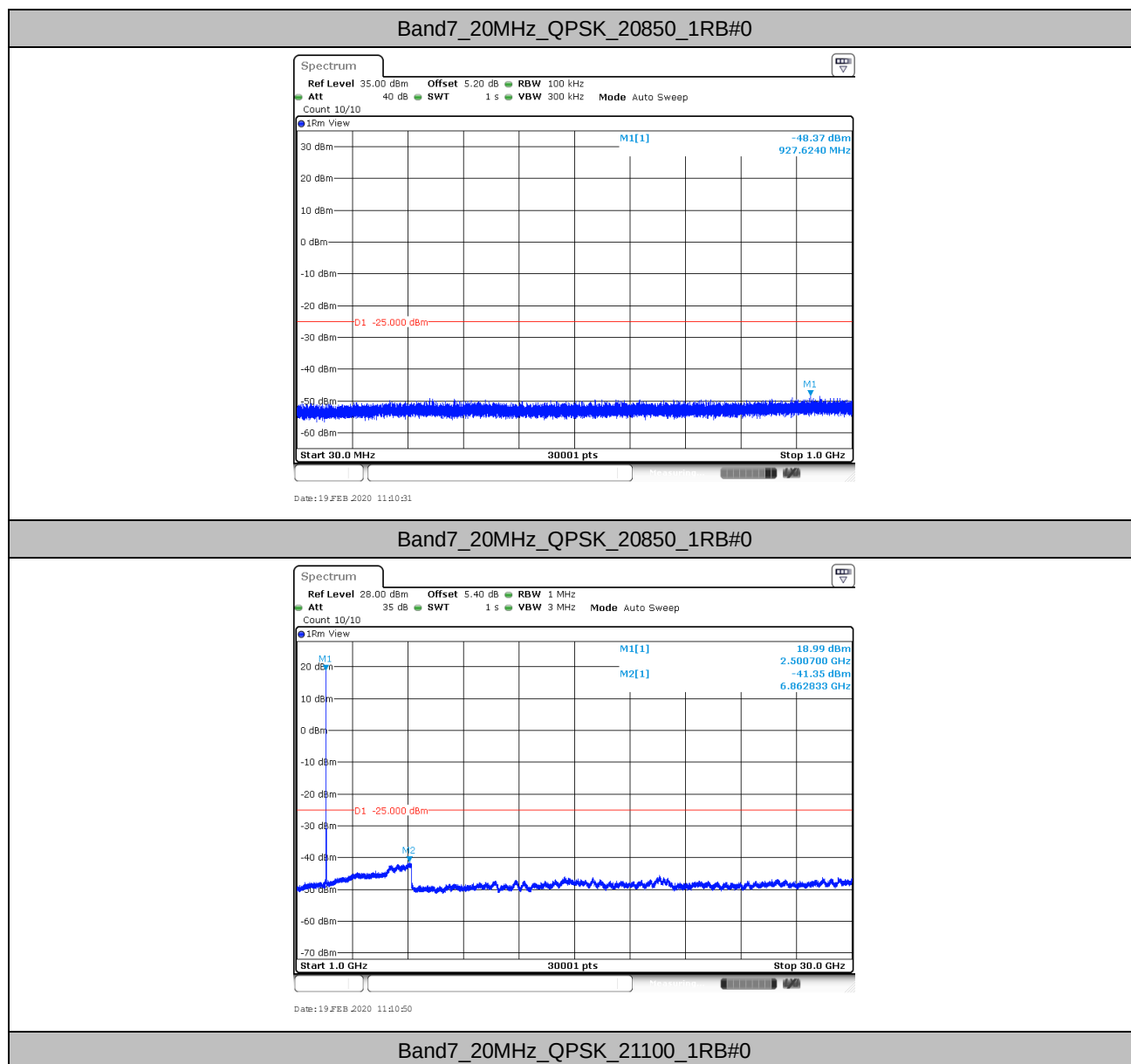


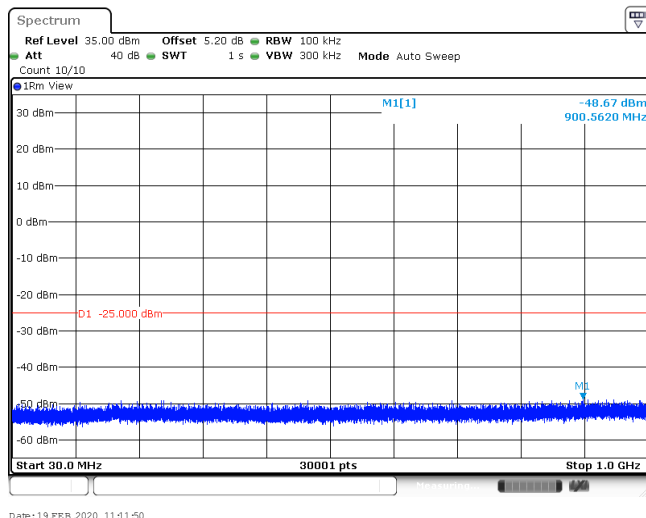
6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

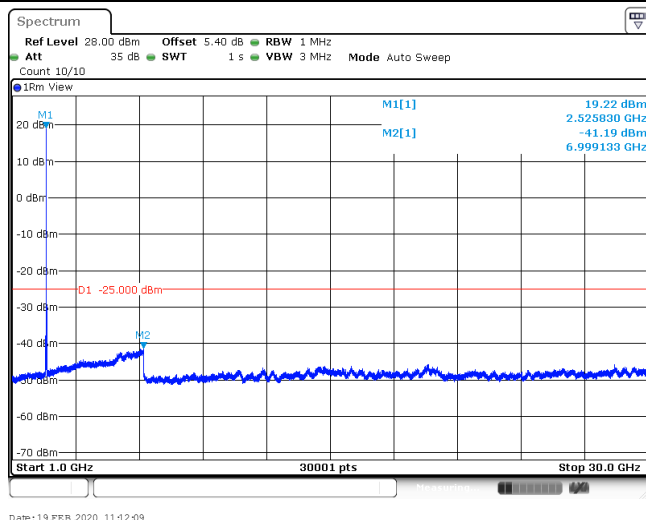
Remark2: only the worst case data displayed in this report.

6.1. Test Plots





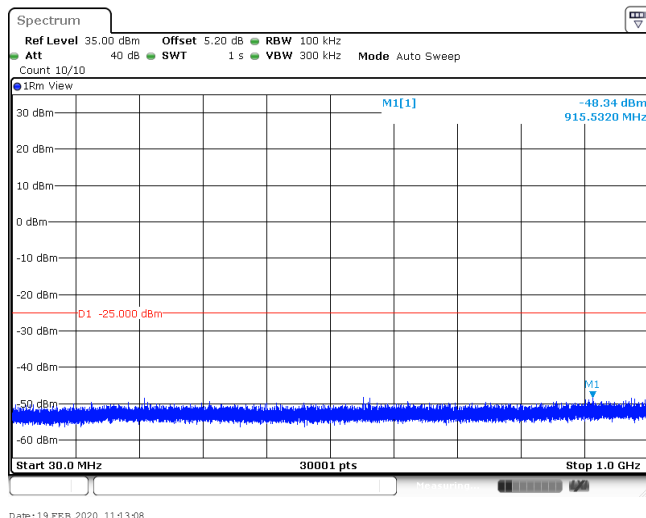
Band7_20MHz_QPSK_21100_1RB#0



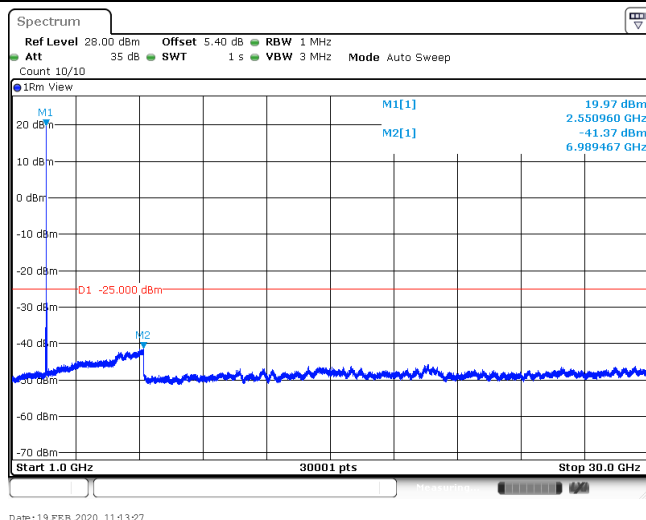
Band7_20MHz_QPSK_21350_1RB#0



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Band7_20MHz_QPSK_21350_1RB#0

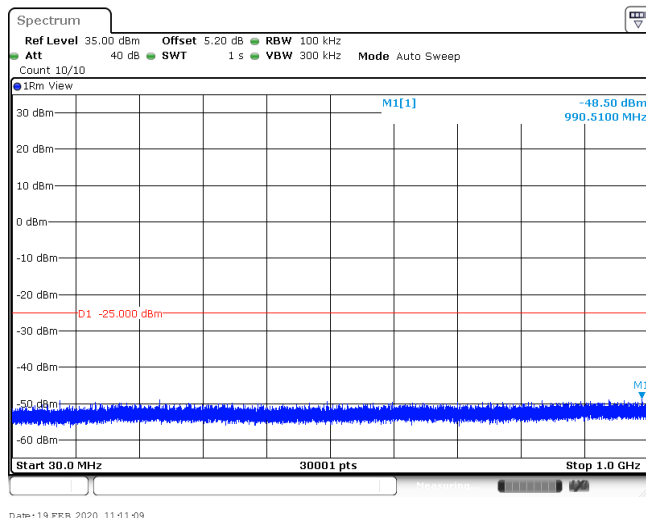


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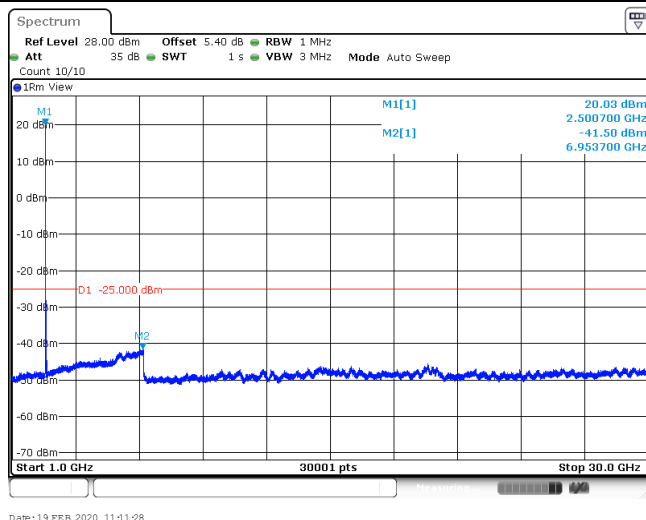


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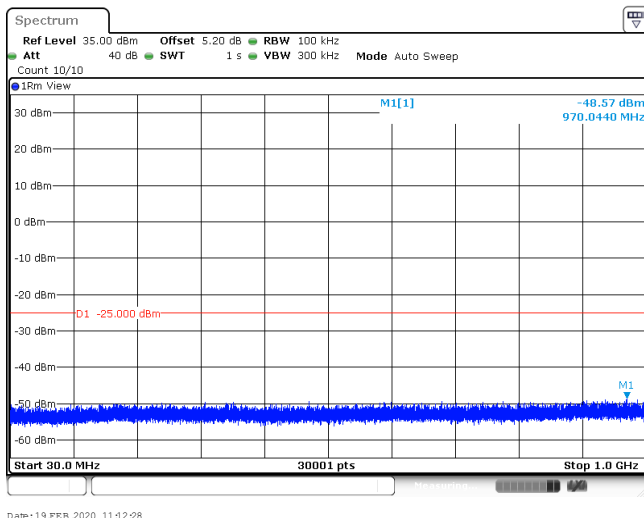
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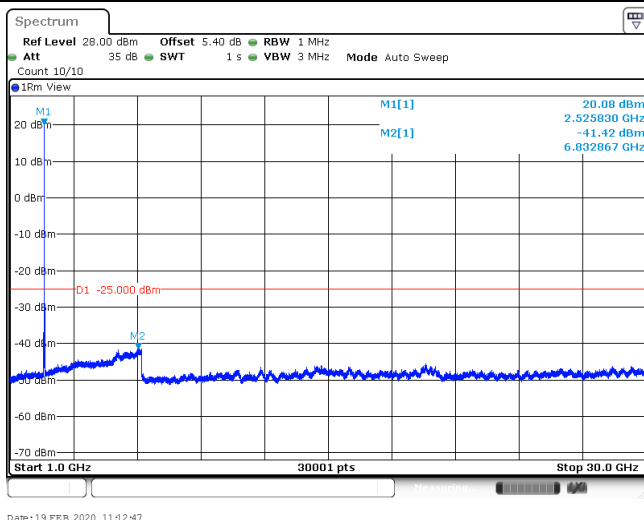
Band7_20MHz_16QAM_21100_1RB#0



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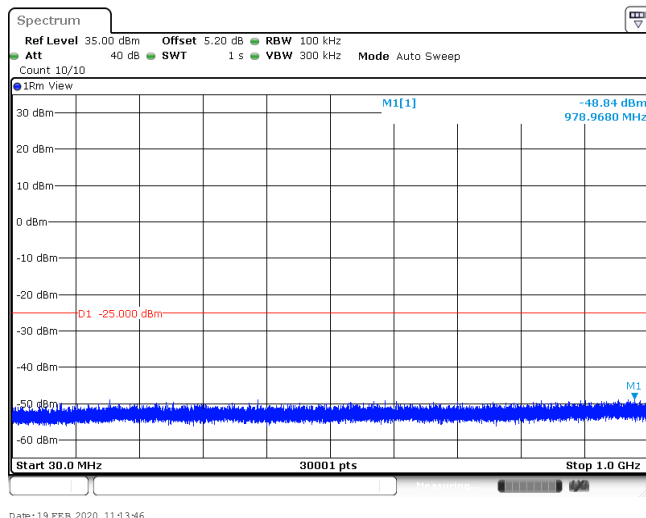
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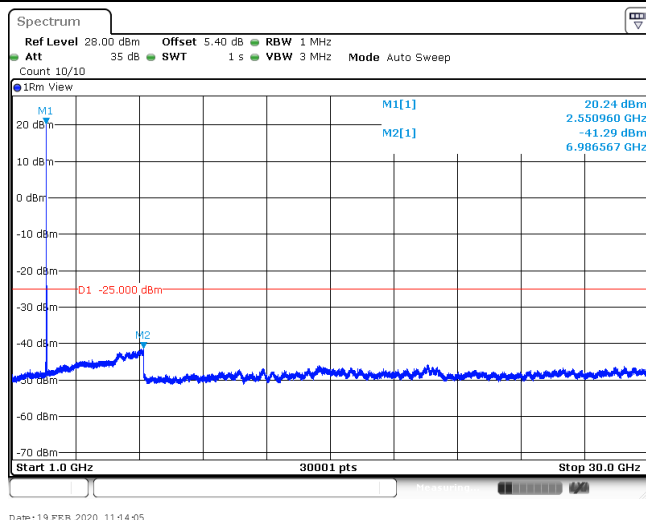
Band7_20MHz_16QAM_21350_1RB#0



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 7

7.1.1. Test Mode = LTE/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
73.7007	-67.47	-25.00	42.47	184	68	Vertical
107.5069	-65.49	-25.00	40.49	175	303	Vertical
327.2714	-69.18	-25.00	44.18	165	68	Vertical
2954.7910	-39.42	-25.00	14.42	188	300	Vertical
7503.1801	-50.67	-25.00	25.67	174	282	Vertical
17987.9995	-42.85	-25.00	17.85	169	154	Vertical
44.6477	-64.43	-25.00	39.43	271	175	Horizontal
232.2066	-68.48	-25.00	43.48	254	282	Horizontal
531.0301	-66.93	-25.00	41.93	236	282	Horizontal
2981.1962	-39.22	-25.00	14.22	241	93	Horizontal
7503.1801	-53.81	-25.00	28.81	278	218	Horizontal
16392.5357	-47.22	-25.00	22.22	252	26	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
65.8918	-68.12	-25.00	43.12	271	30	Vertical
114.4912	-64.90	-25.00	39.90	265	179	Vertical
461.9141	-68.00	-25.00	43.00	241	307	Vertical
2944.3889	-39.36	-25.00	14.36	278	54	Vertical
7578.1831	-51.32	-25.00	26.32	214	286	Vertical
10104.2842	-49.99	-25.00	24.99	256	350	Vertical
42.5621	-64.86	-25.00	39.86	184	242	Horizontal
234.8257	-69.10	-25.00	44.10	175	111	Horizontal
601.6981	-64.32	-25.00	39.32	162	132	Horizontal
2998.7998	-39.47	-25.00	14.47	184	228	Horizontal
7578.1831	-54.88	-25.00	29.88	165	220	Horizontal
16366.1346	-47.11	-25.00	22.11	187	196	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
72.9246	-69.41	-25.00	44.41	184	69	Vertical
112.5026	-65.55	-25.00	40.55	175	260	Vertical
447.5089	-68.49	-25.00	43.49	196	197	Vertical
2991.9984	-39.21	-25.00	14.21	194	331	Vertical
7653.1861	-49.39	-25.00	24.39	178	89	Vertical
17998.1999	-42.81	-25.00	17.81	192	260	Vertical
39.6035	-64.38	-25.00	39.38	271	305	Horizontal
228.0354	-69.02	-25.00	44.02	222	177	Horizontal
654.0322	-64.13	-25.00	39.13	241	134	Horizontal
2943.5887	-39.40	-25.00	14.40	258	168	Horizontal
7653.1861	-51.49	-25.00	26.49	236	4	Horizontal
16381.7353	-46.77	-25.00	21.77	291	347	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 had been displayed.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-13.68	-0.005450	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-12.53	-0.004992	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-15.82	-0.006303	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-14.31	-0.005645	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-16.54	-0.006525	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-15.32	-0.006043	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-19.34	-0.007555	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-24.03	-0.009387	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-22.43	-0.008762	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-15.69	-0.006251	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-9.34	-0.003721	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-14.49	-0.005773	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-15.72	-0.006201	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-11.22	-0.004426	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-13.62	-0.005373	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-14.99	-0.005855	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-17.21	-0.006723	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-15.81	-0.006176	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-13.35	-0.005319	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-13.59	-0.005414	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-9.50	-0.003785	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-11.01	-0.004386	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-12.19	-0.004857	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-13.22	-0.005267	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-11.26	-0.004486	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-9.56	-0.003809	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-12.55	-0.004951	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-14.26	-0.005625	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-14.95	-0.005897	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-12.23	-0.004824	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-13.06	-0.005152	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-12.04	-0.004750	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-13.05	-0.005148	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-12.57	-0.004959	±2.5	PASS



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Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-12.43	-0.004855	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-12.16	-0.004750	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-15.28	-0.005969	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-13.33	-0.005207	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-16.87	-0.006590	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-18.48	-0.007219	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-15.55	-0.006074	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-19.01	-0.007426	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-11.34	-0.004518	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	-13.70	-0.005458	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-9.17	-0.003653	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-14.36	-0.005721	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-14.46	-0.005761	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	-12.12	-0.004829	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	-9.53	-0.003797	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-15.19	-0.006052	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-13.48	-0.005318	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-14.62	-0.005767	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-17.25	-0.006805	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-17.15	-0.006765	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-12.96	-0.005112	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-9.27	-0.003657	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-11.64	-0.004592	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-10.56	-0.004166	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-15.25	-0.005957	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-15.16	-0.005922	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-18.64	-0.007281	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-15.28	-0.005969	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-16.02	-0.006258	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-15.91	-0.006215	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	-11.44	-0.004469	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-13.95	-0.005449	±2.5	PASS

The End



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