



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	22.89	24.89	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.01	25.01	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.86	24.86	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.08	24.08	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.04	24.04	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.13	24.13	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.06	24.06	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.02	25.02	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.16	25.16	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.90	24.90	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.32	24.32	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.23	24.23	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.27	24.27	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.22	24.22	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.84	24.84	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.95	24.95	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.78	24.78	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.97	23.97	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.87	23.87	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.89	23.89	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.90	23.90	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.48	24.48	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.85	23.85	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.16	24.16	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.02	23.02	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.13	23.13	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.17	23.17	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.15	23.15	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.44	24.44	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.30	24.30	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.41	24.41	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.33	23.33	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.34	23.34	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.30	23.30	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.24	23.24	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.05	24.05	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.33	24.33	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.75	23.75	33.00	PASS



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Band7	5MHz	16QAM	21425	12RB#0	21.03	23.03	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.98	22.98	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.93	22.93	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.88	22.88	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.78	24.78	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.18	25.18	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.90	24.90	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.10	24.10	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.16	24.16	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.34	24.34	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.21	24.21	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.15	25.15	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.24	25.24	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.17	25.17	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.39	24.39	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.33	24.33	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.33	24.33	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.42	24.42	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.92	24.92	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.09	25.09	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.82	24.82	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.02	24.02	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.02	24.02	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.00	24.00	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.12	24.12	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.91	23.91	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.21	24.21	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.30	24.30	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.11	23.11	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.29	23.29	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.27	23.27	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.15	23.15	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.45	24.45	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.32	24.32	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.31	24.31	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.38	23.38	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.37	23.37	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.38	23.38	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.37	23.37	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.31	24.31	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.98	23.98	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.91	23.91	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.99	22.99	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.06	23.06	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.08	23.08	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.11	23.11	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.78	24.78	33.00	PASS



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Band7	15MHz	QPSK	20825	1RB#38	23.02	25.02	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.95	24.95	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.14	24.14	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.21	24.21	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.26	24.26	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.24	24.24	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.07	25.07	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.06	25.06	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.02	25.02	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	22.39	24.39	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.34	24.34	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.31	24.31	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.27	24.27	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.95	24.95	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.99	24.99	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.69	24.69	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.21	24.21	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.11	24.11	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.94	23.94	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.08	24.08	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.93	23.93	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.29	24.29	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.03	24.03	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.07	23.07	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	21.18	23.18	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.07	23.07	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.26	23.26	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.32	24.32	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.45	24.45	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.35	24.35	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	21.32	23.32	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.40	23.40	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	21.35	23.35	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.38	23.38	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.15	24.15	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.10	24.10	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.93	23.93	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	21.03	23.03	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	21.03	23.03	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.99	22.99	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.12	23.12	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.77	24.77	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.14	25.14	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.86	24.86	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.11	24.11	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.28	24.28	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.33	24.33	33.00	PASS



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Band7	20MHz	QPSK	20850	100RB#0	22.16	24.16	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.80	24.80	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.08	25.08	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.79	24.79	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.37	24.37	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.35	24.35	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.31	24.31	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.29	24.29	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.02	25.02	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.99	24.99	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.63	24.63	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.27	24.27	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.17	24.17	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.96	23.96	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.06	24.06	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.35	24.35	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.32	24.32	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.15	24.15	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.15	23.15	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.25	23.25	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.20	23.20	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.25	23.25	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.16	24.16	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.14	24.14	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.46	24.46	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.39	23.39	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.40	23.40	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.40	23.40	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.38	23.38	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.03	24.03	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.13	24.13	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.23	24.23	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.26	23.26	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.09	23.09	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.92	22.92	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.08	23.08	33.00	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

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



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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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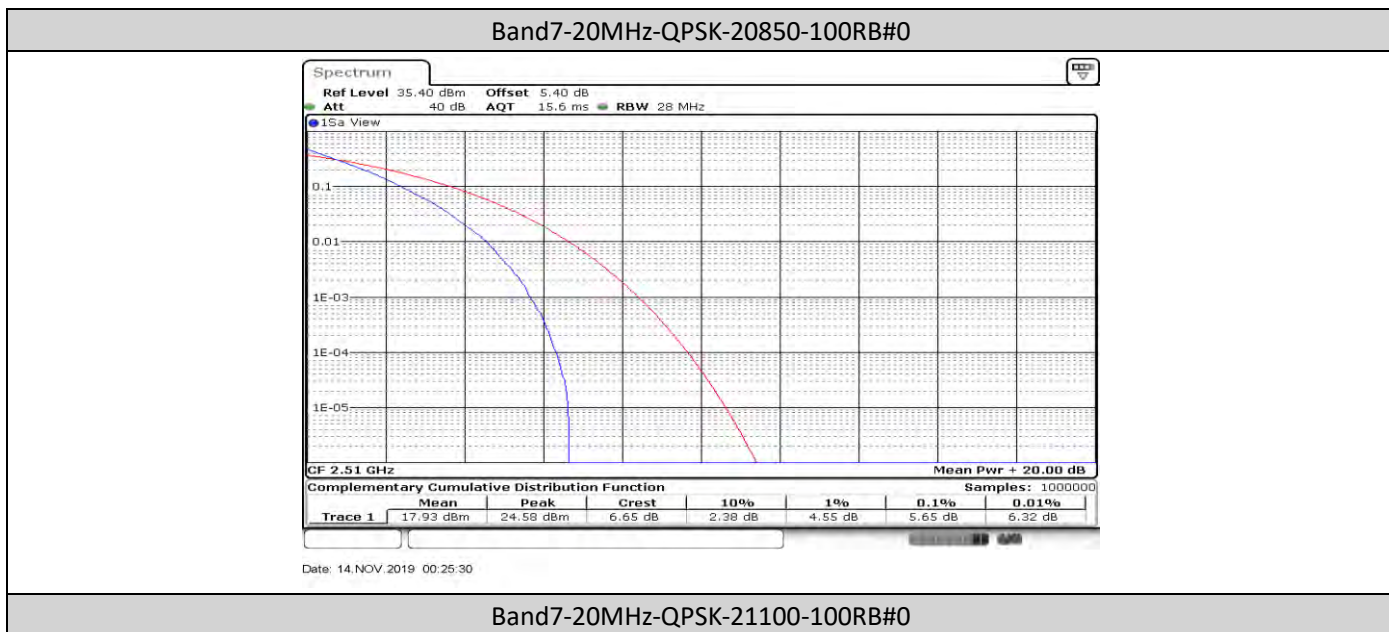


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.65	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.88	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.88	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.29	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.58	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.41	13	PASS

2.2. Test Plots



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Date: 14.NOV.2019 00:25:38

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

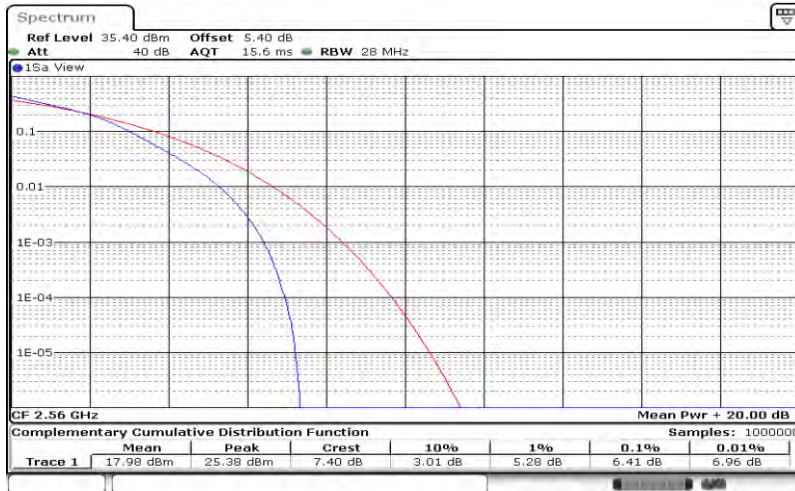


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Band7-20MHz-16QAM-21350-100RB#0



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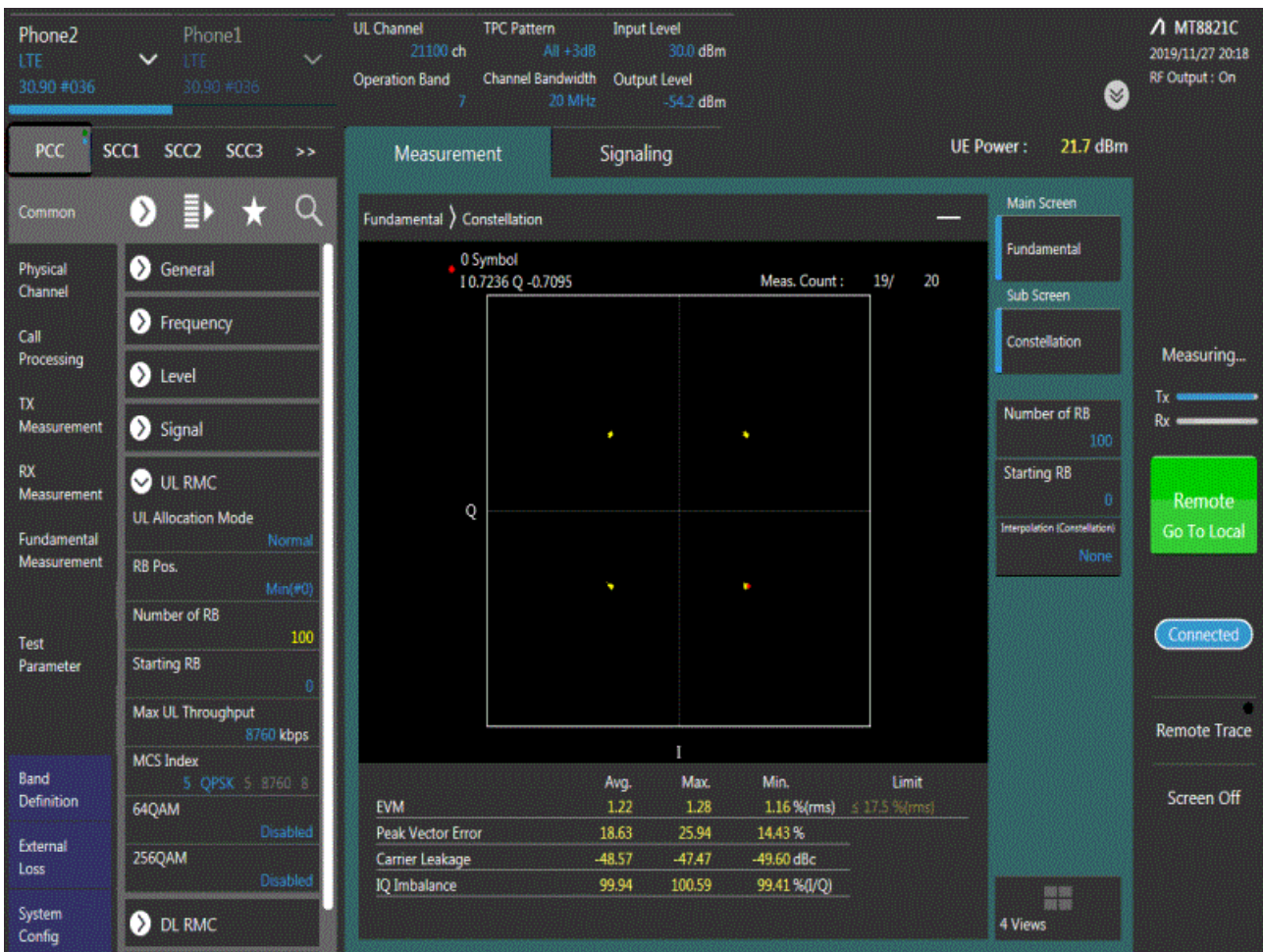
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3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH

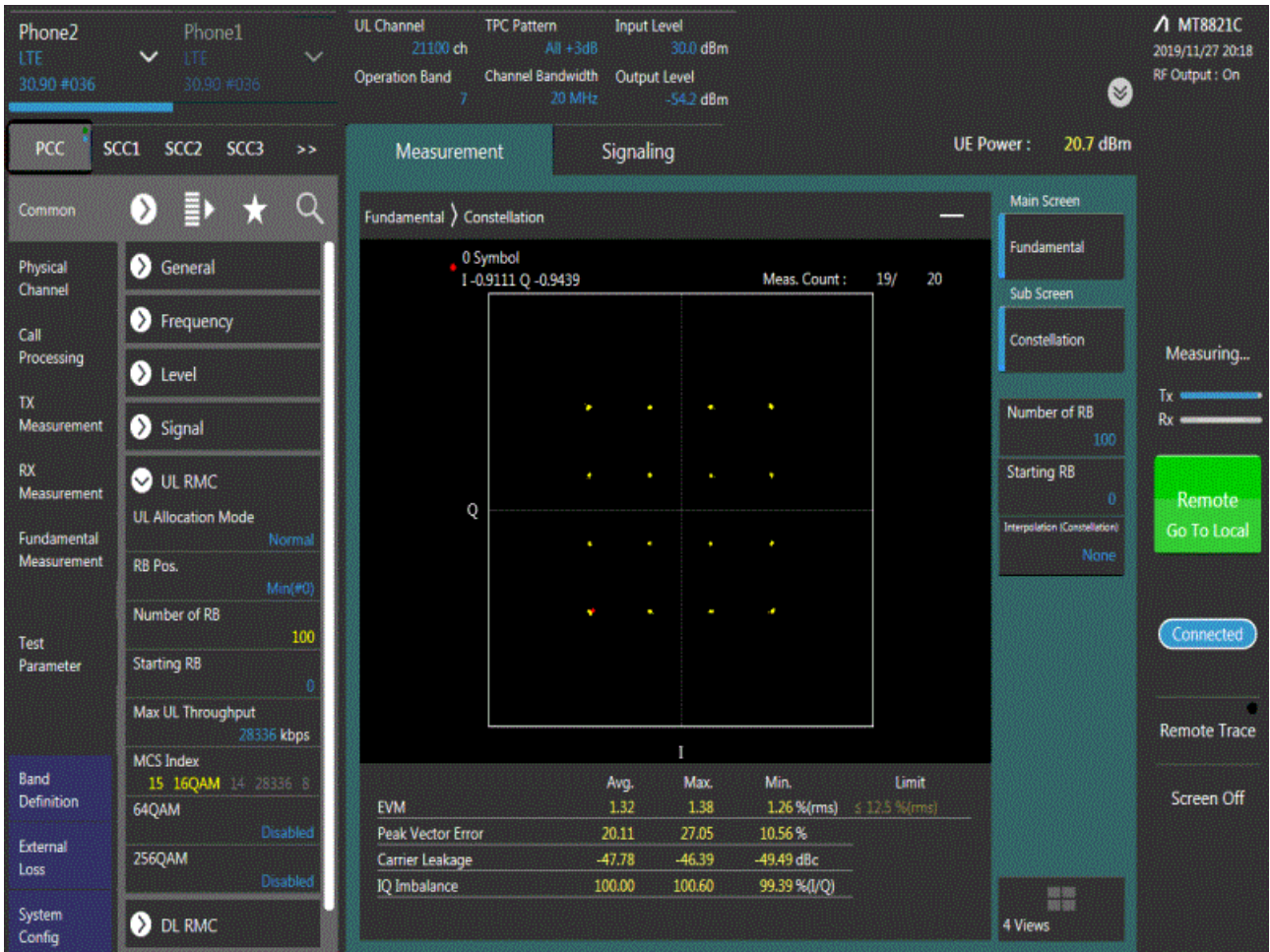


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3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH



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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	4.870	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.466	4.840	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.486	4.860	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.466	4.800	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.466	4.880	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.476	4.860	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.951	9.620	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.951	9.600	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.951	9.640	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.911	9.620	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.951	9.960	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.911	9.560	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.820	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.427	14.910	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.487	15.030	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.940	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.487	15.840	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.457	14.760	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.902	19.280	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.862	19.280	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.942	19.320	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.240	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.902	19.400	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.942	19.320	PASS



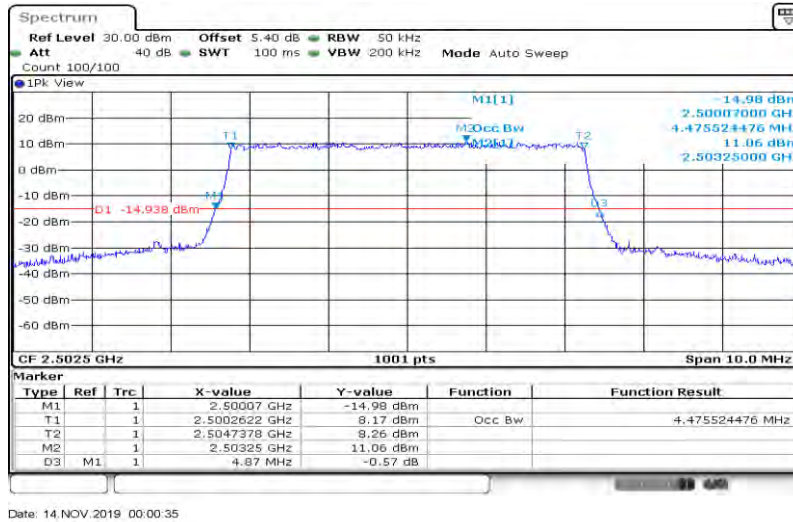
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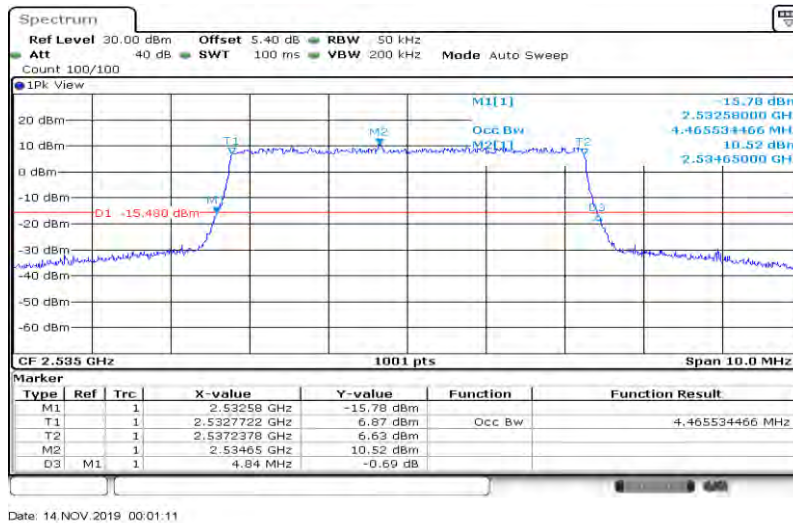


4.2. Test Plots

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



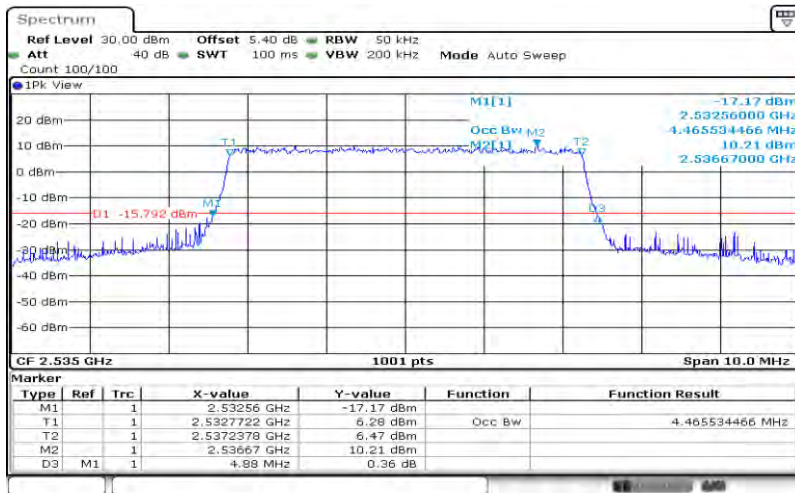
Band7-5MHz-QPSK-21100-25RB#0-4.466



Band7-5MHz-QPSK-21425-25RB#0-4.486

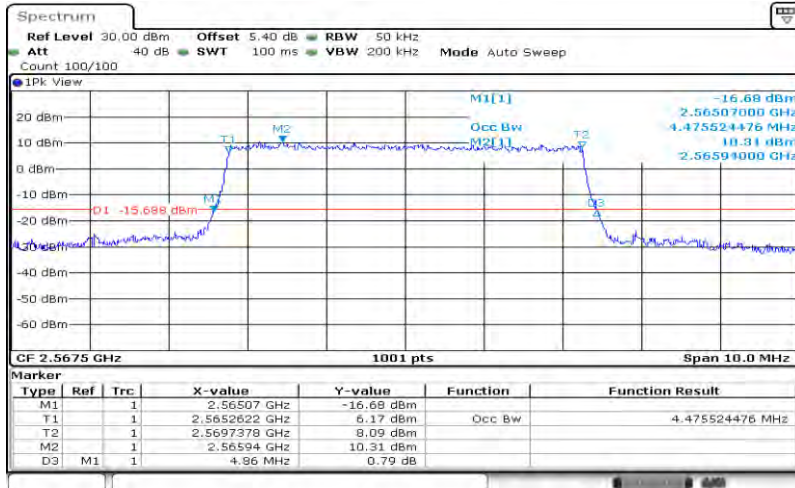


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Date: 14.NOV.2019 00:01:28

Band7-5MHz-16QAM-21425-25RB#0-4.476

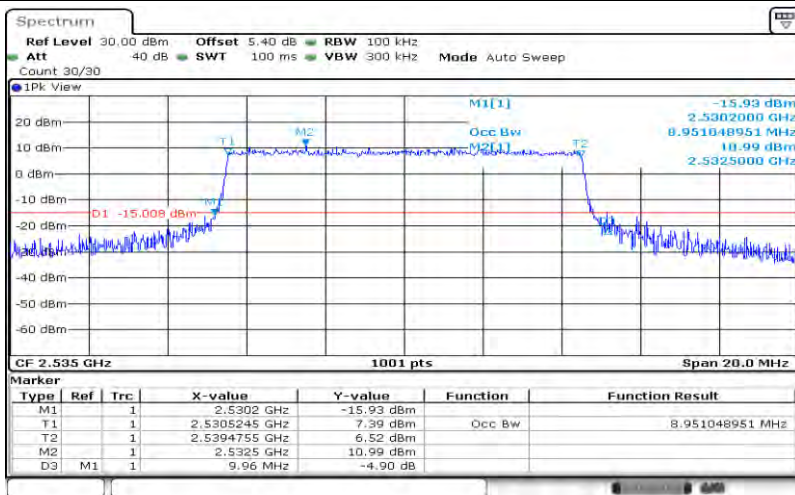


Date: 14.NOV.2019 00:02:04

Band7-10MHz-QPSK-20800-50RB#0-8.951

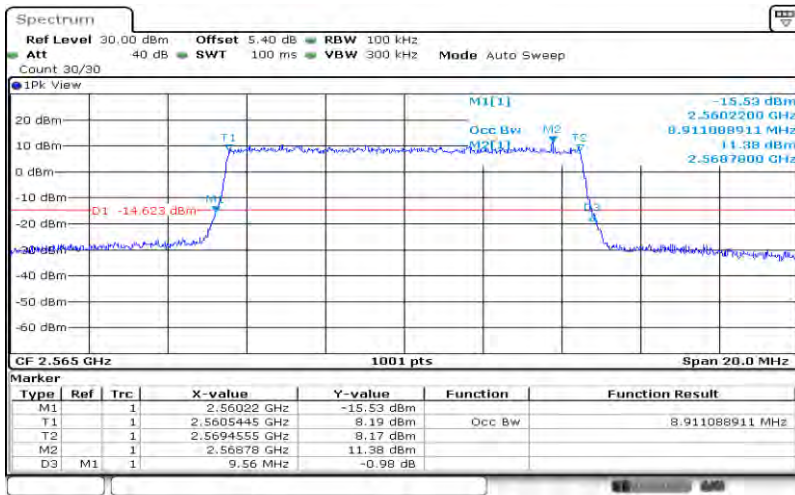


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Date: 14.NOV.2019 00:04:12

Band7-10MHz-16QAM-21400-50RB#0-8.911

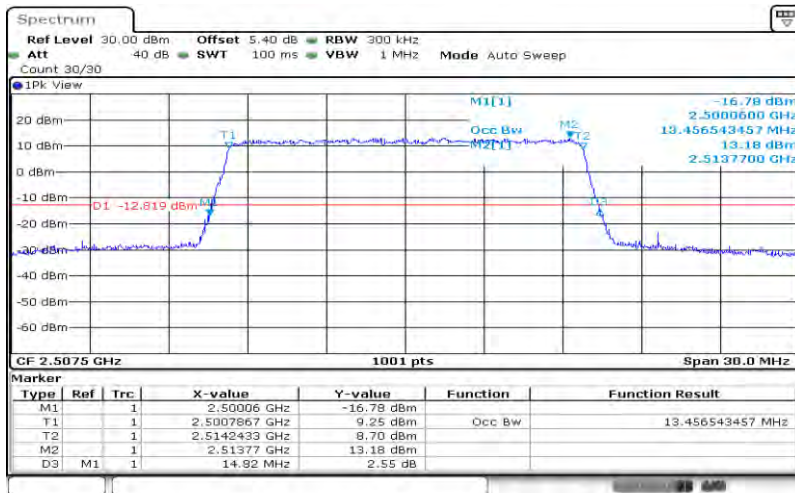


Date: 14.NOV.2019 00:04:34

Band7-15MHz-QPSK-20825-75RB#0-13.457

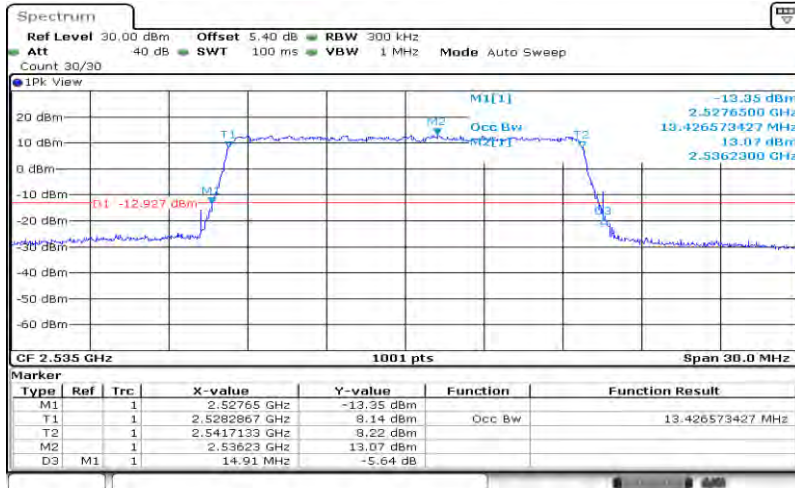


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Band7-15MHz-QPSK-21100-75RB#0-13.427

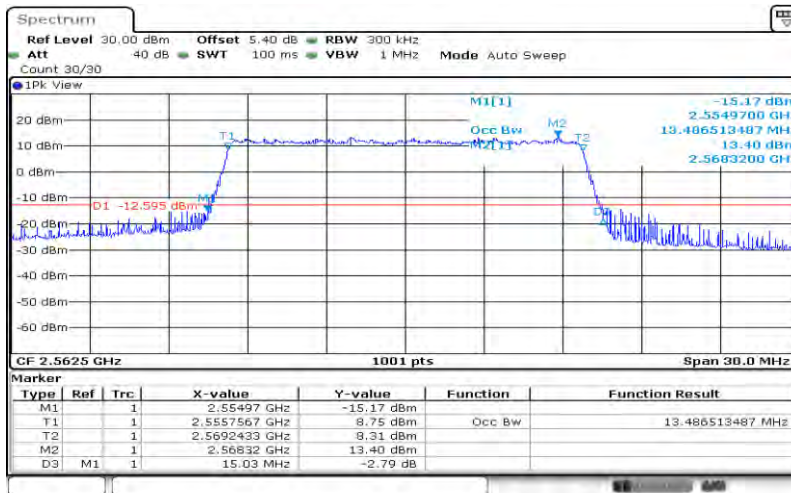


Date: 14.NOV.2019 00:06:14

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

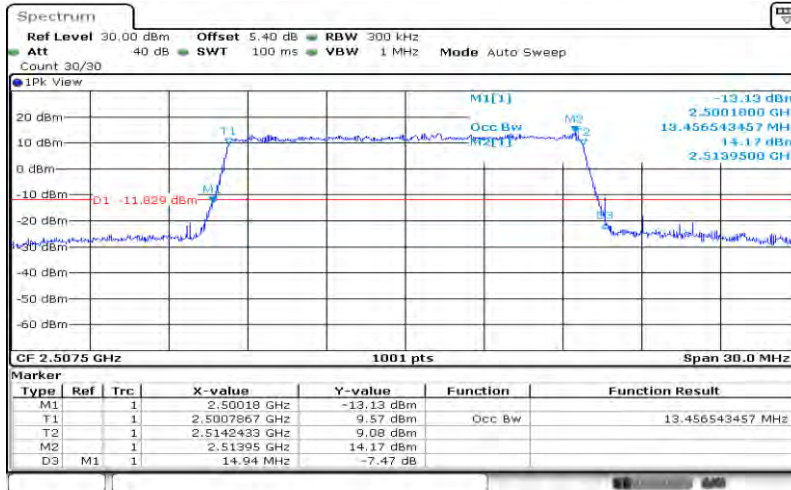


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Date: 14.NOV.2019 00:06:37

Band7-15MHz-16QAM-20825-75RB#0-13.457

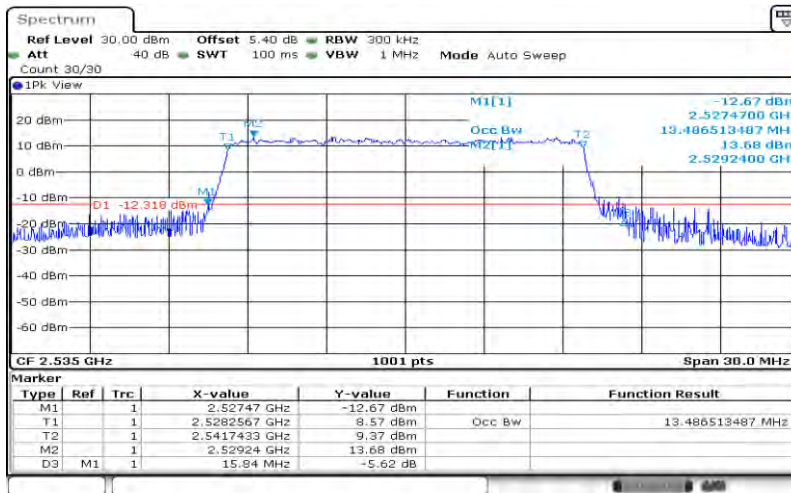


Date: 14.NOV.2019 00:06:02

Band7-15MHz-16QAM-21100-75RB#0-13.487



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Date: 14.NOV.2019 00:06:24

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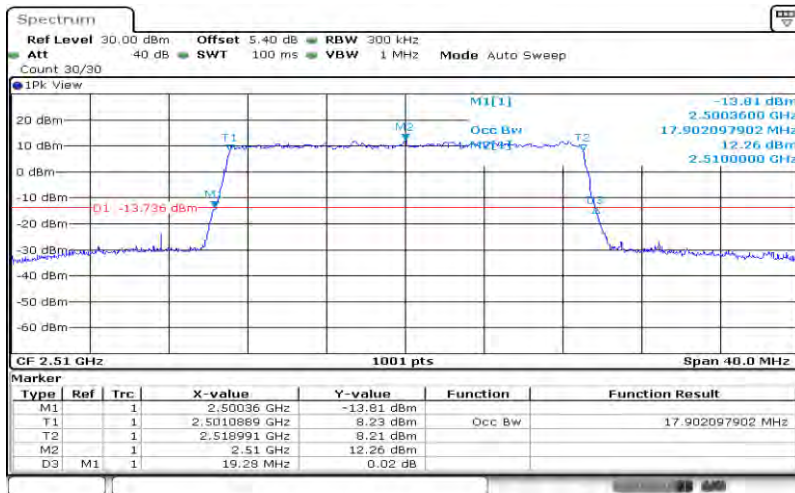


Date: 14.NOV.2019 00:06:47

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

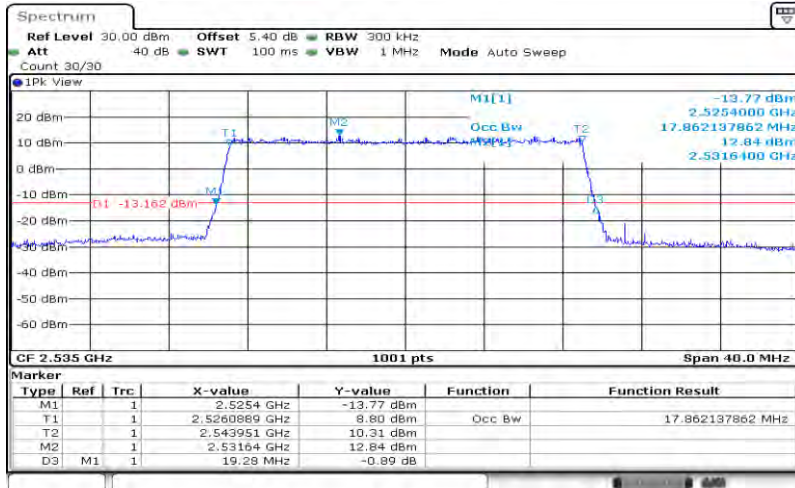


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Band7-20MHz-QPSK-21100-100RB#0-17.862

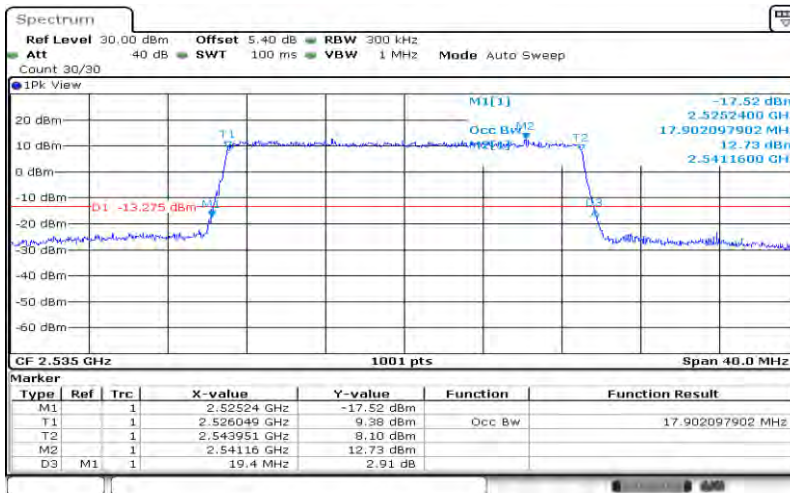


Date: 14.NOV.2019 00:08:05

Band7-20MHz-QPSK-21350-100RB#0-17.942

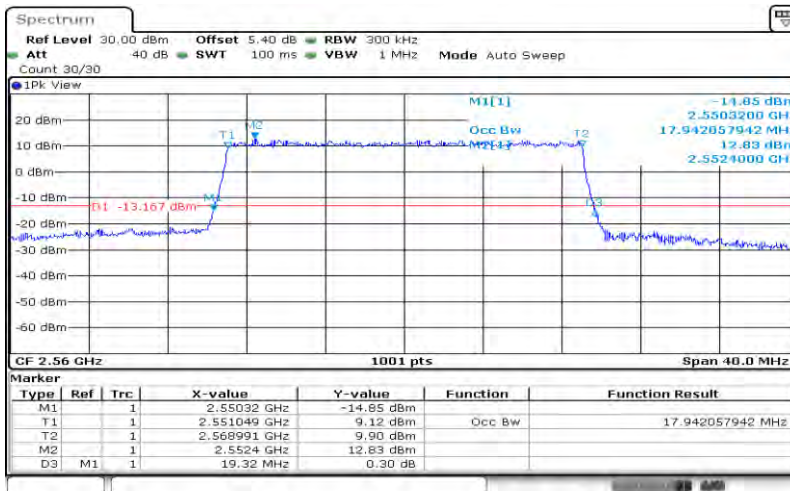


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Date: 14.NOV.2019 00:08:15

Band7-20MHz-16QAM-21350-100RB#0-17.942



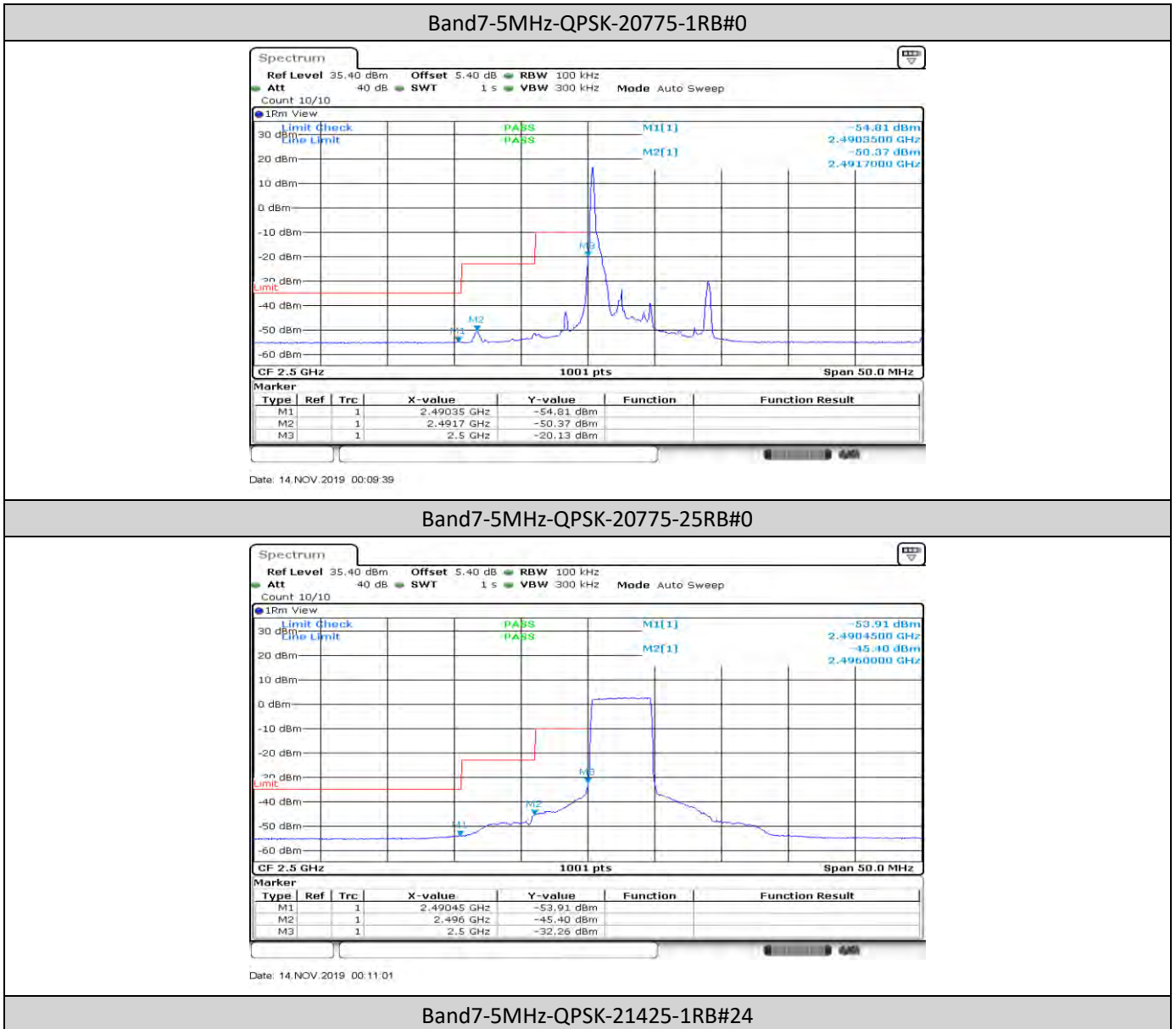
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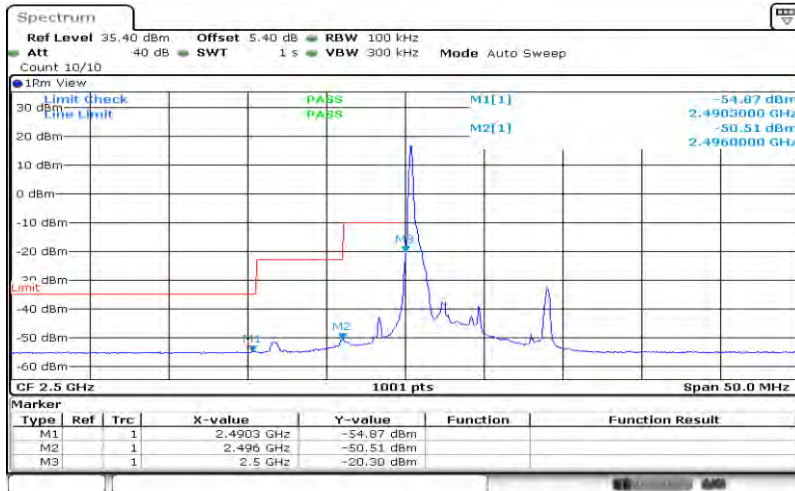
5. Band Edge Compliance

5.1. Test Plots



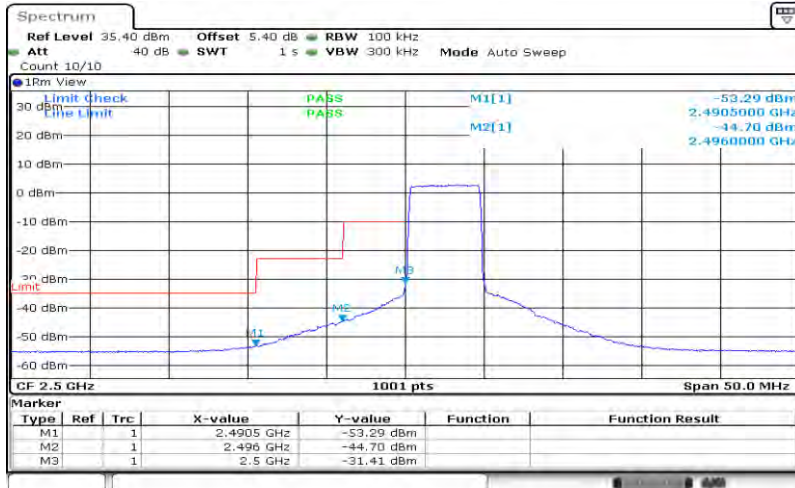
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Date: 14.NOV.2019 00:09:57

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



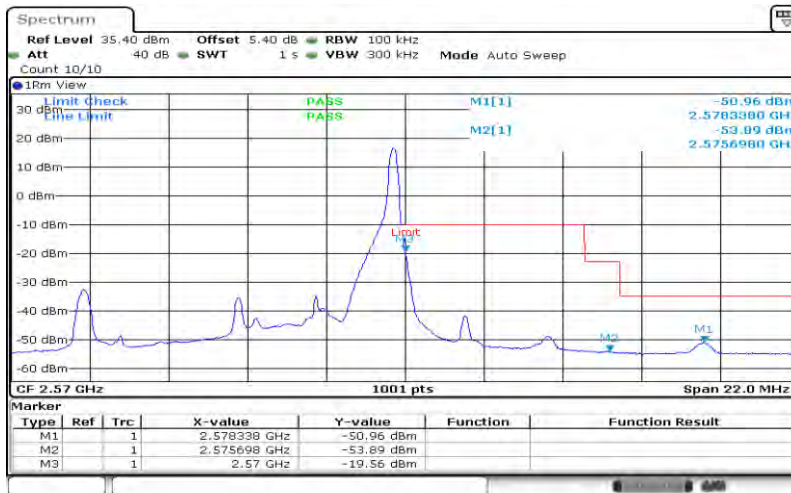
Date: 14.NOV.2019 00:11:19

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



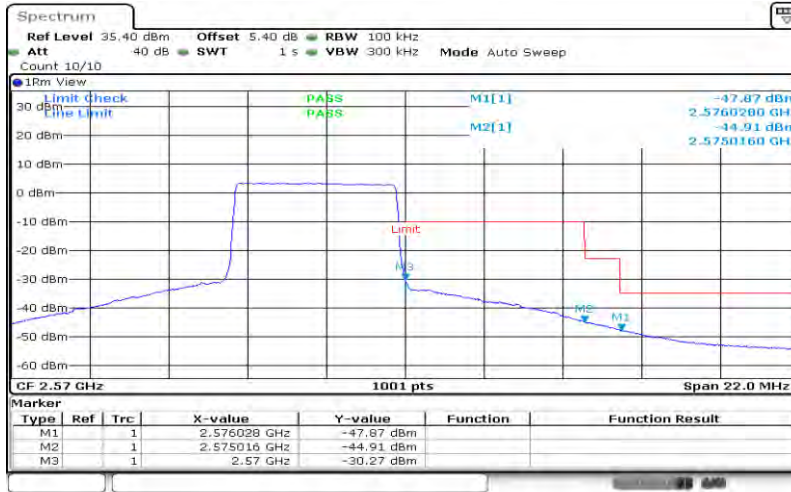
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Date: 14.NOV.2019 00:10:39

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

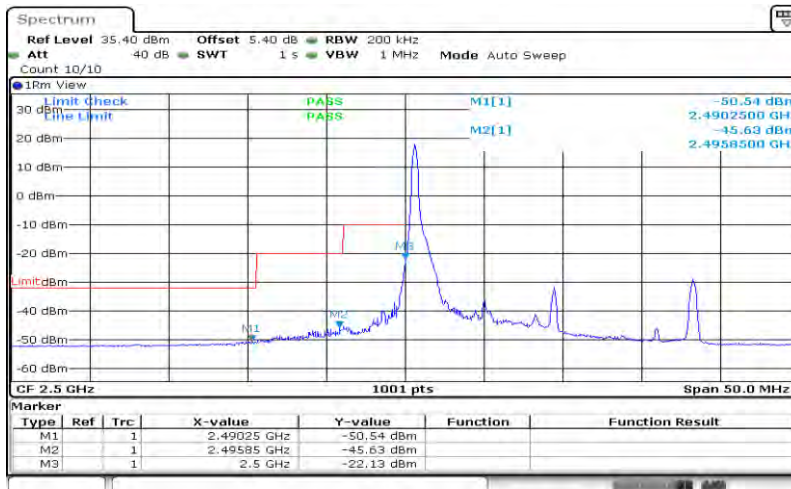


Date: 14.NOV.2019 00:11:57

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

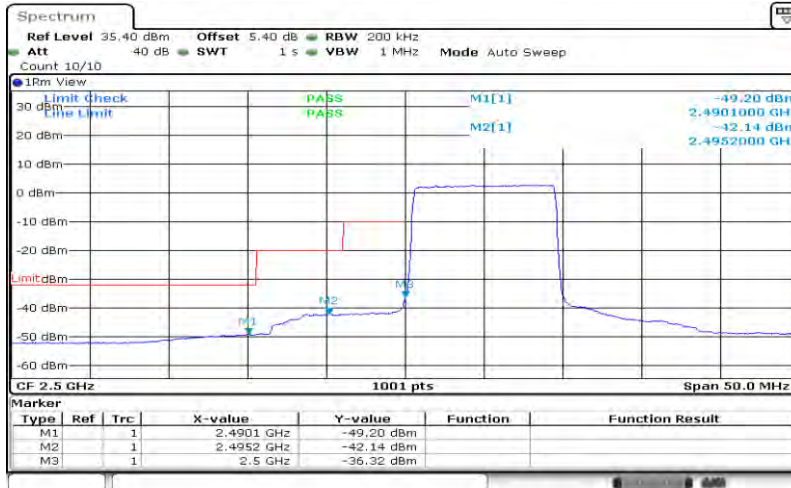


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Date: 14.NOV.2019 00:12:47

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

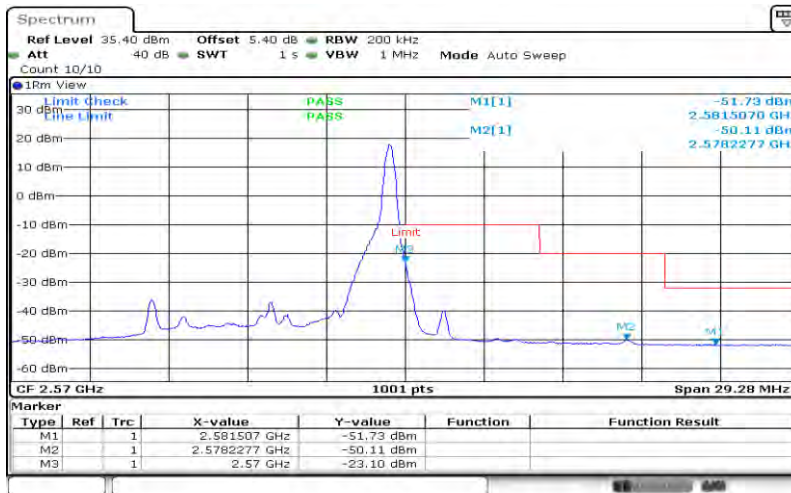


Date: 14.NOV.2019 00:14:10

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

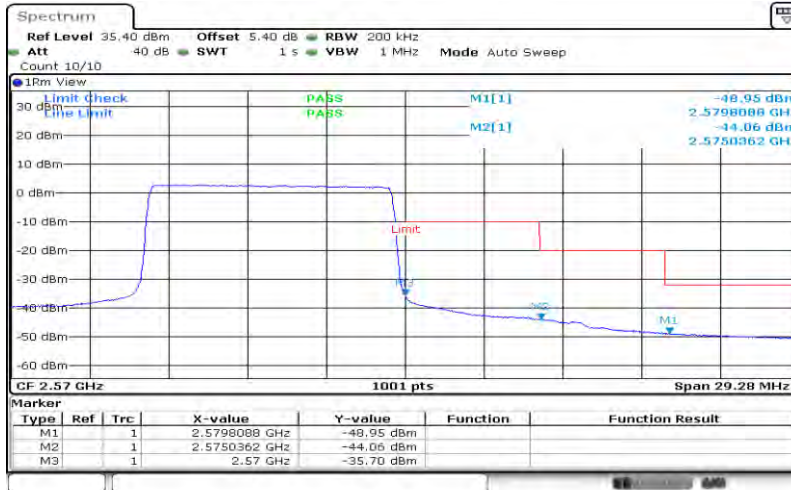


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Date: 14.NOV.2019 00:13:29

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

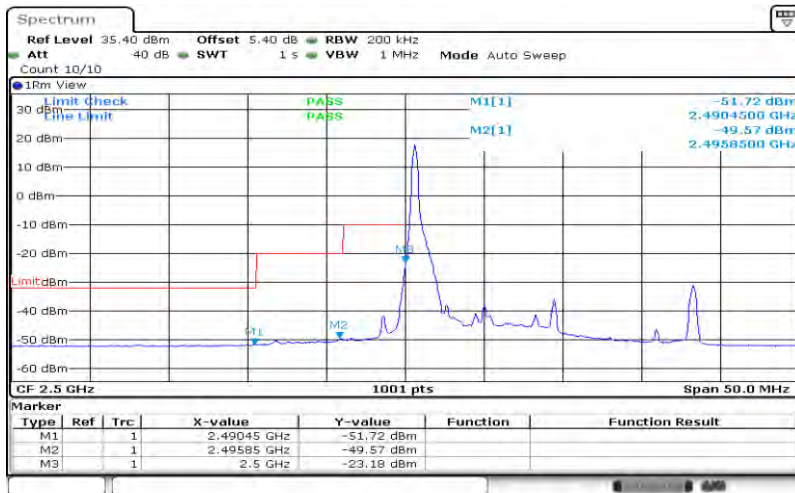


Date: 14.NOV.2019 00:14:48

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



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Date: 14.NOV.2019 00:13:04

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

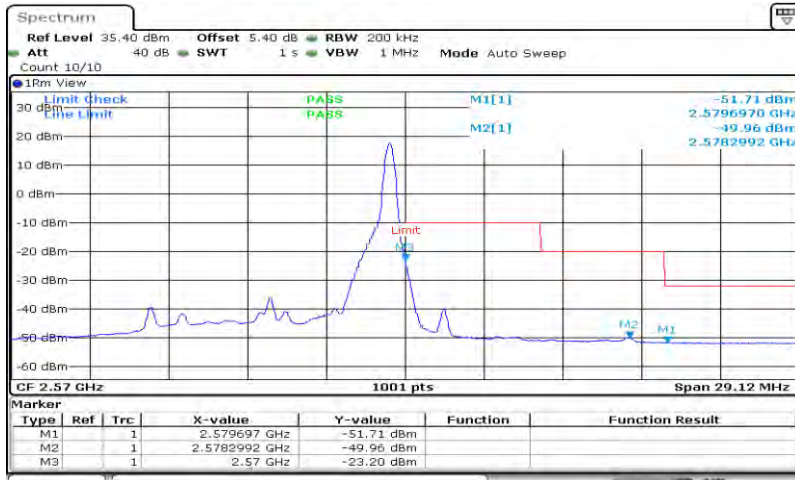


Date: 14.NOV.2019 00:14:28

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



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Date: 14.NOV.2019 00:13:47

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

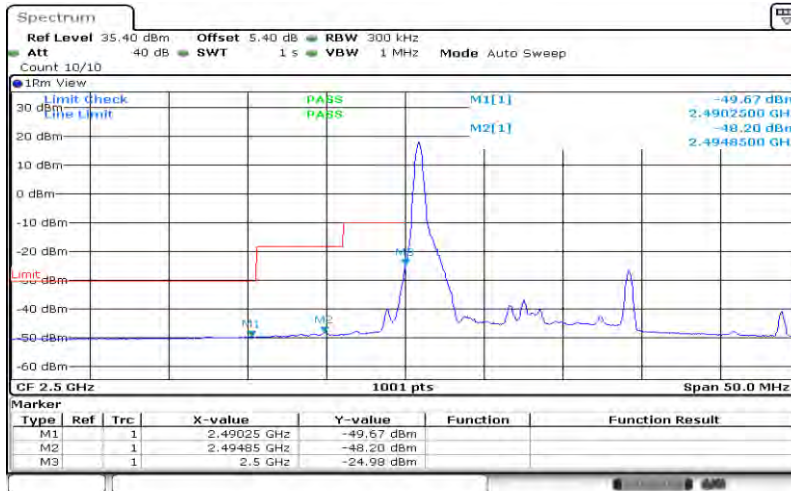


Date: 14.NOV.2019 00:15:06

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



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Date: 14.NOV.2019 00:16:22

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

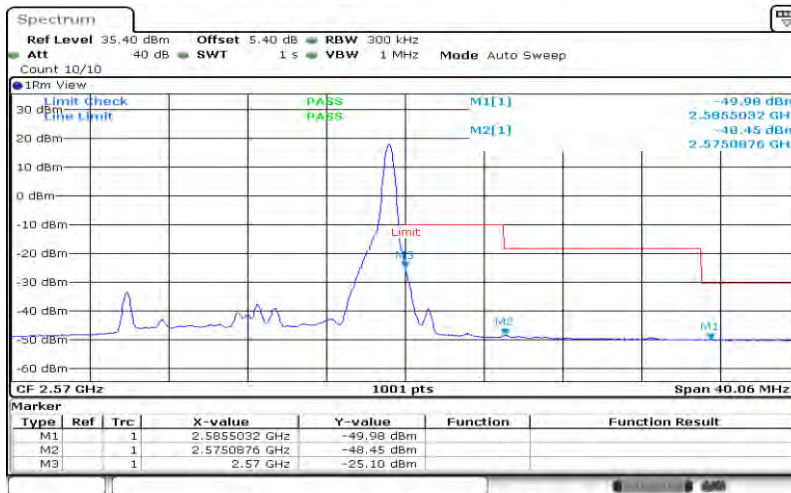


Date: 14.NOV.2019 00:17:46

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

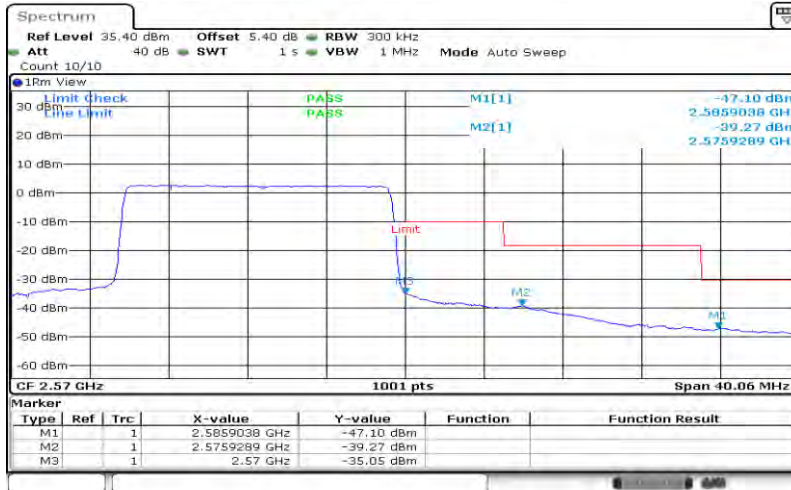


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Date: 14.NOV.2019 00:17:04

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

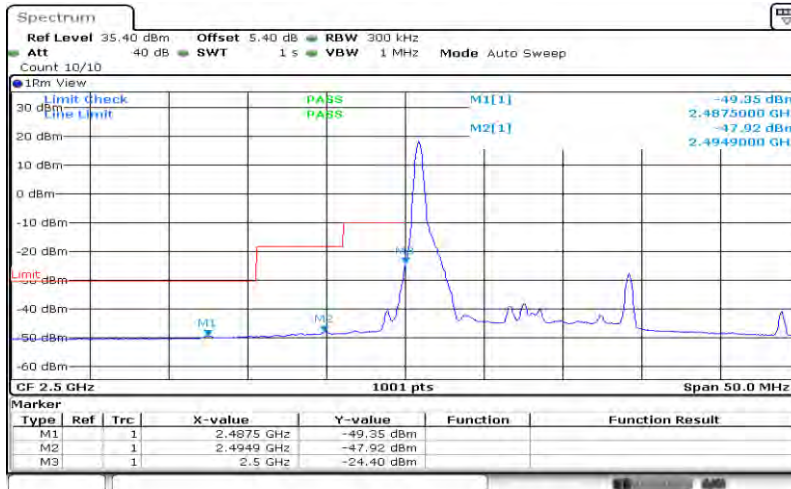


Date: 14.NOV.2019 00:18:26

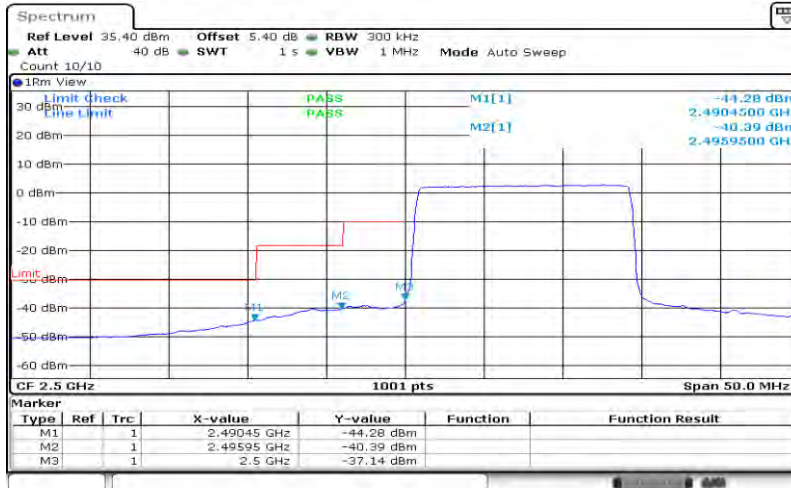
Band7-15MHz-16QAM-20825-1RB#0



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



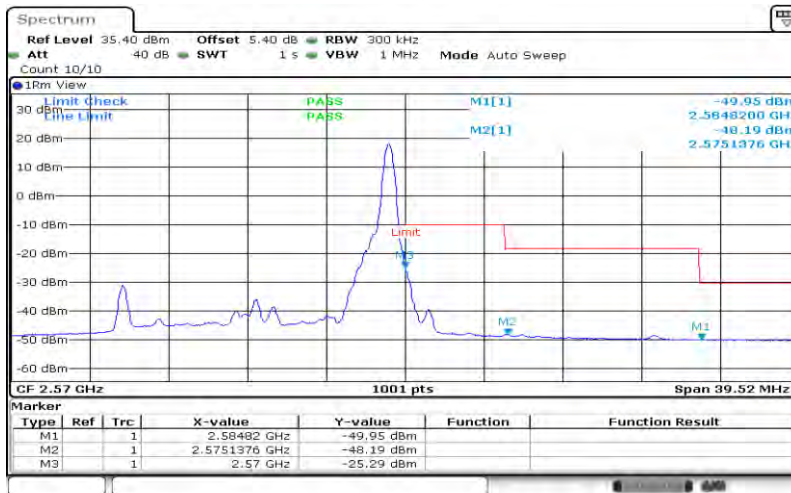
Band7-15MHz-16QAM-21375-1RB#74



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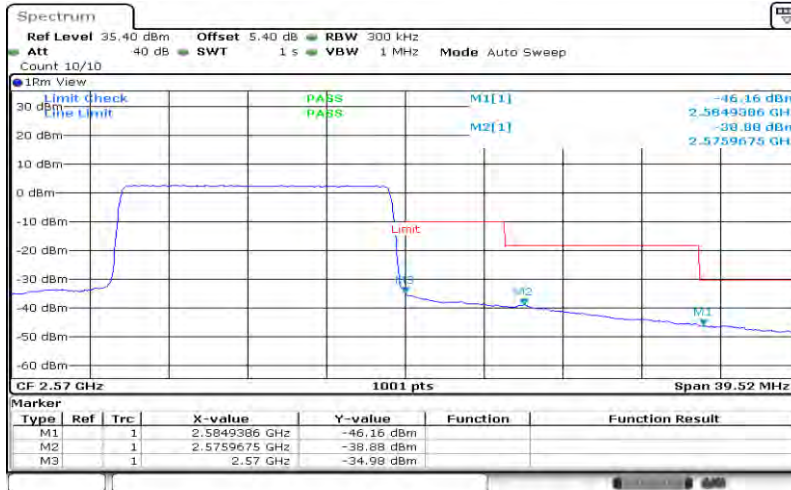
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Date: 14.NOV.2019 00:17:22

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

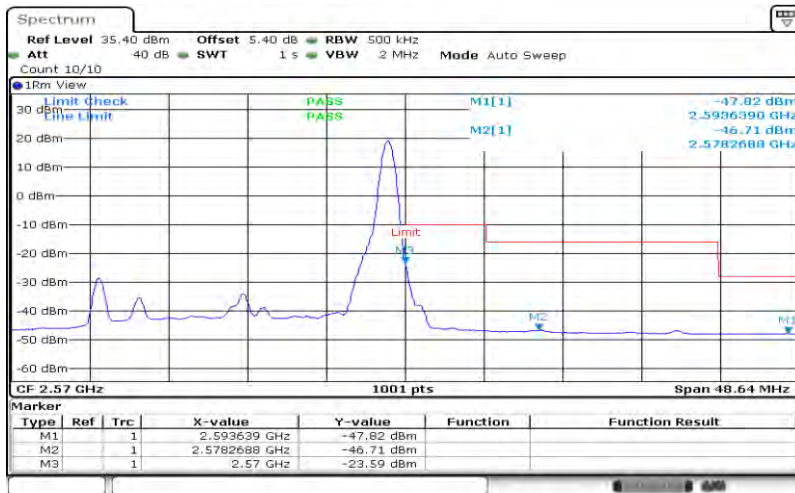


Date: 14.NOV.2019 00:18:44

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

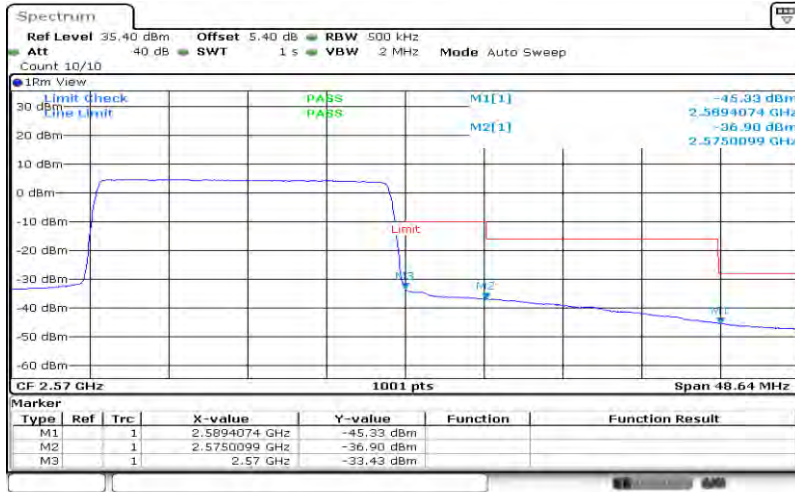


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Date: 14.NOV.2019 00:20:15

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

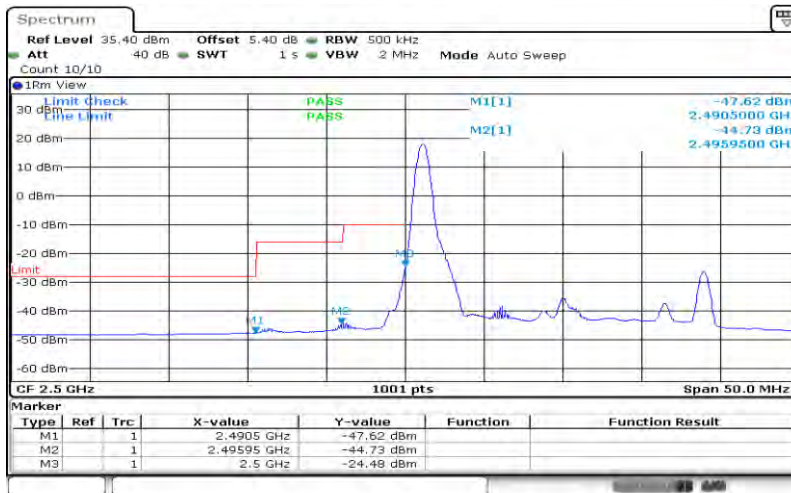


Date: 14.NOV.2019 00:21:38

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

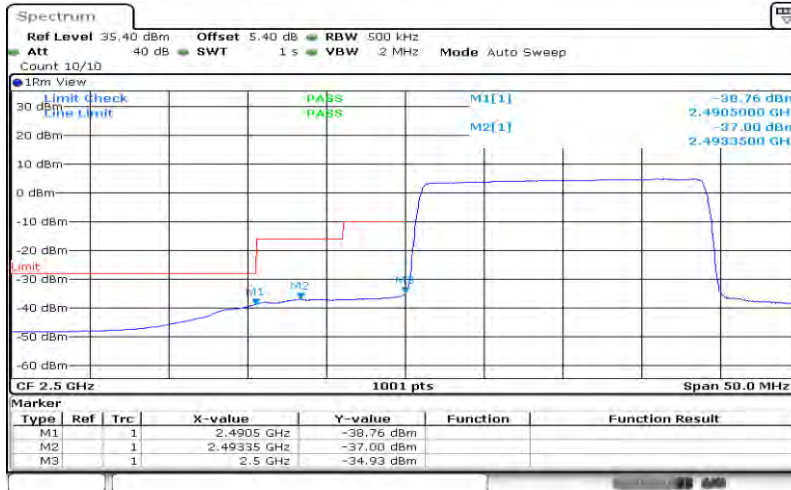


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Date: 14.NOV.2019 00:19:51

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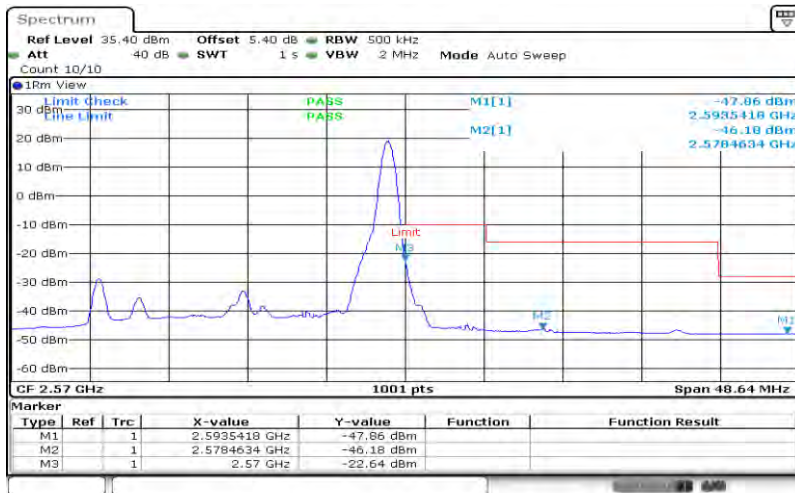


Date: 14.NOV.2019 00:21:17

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

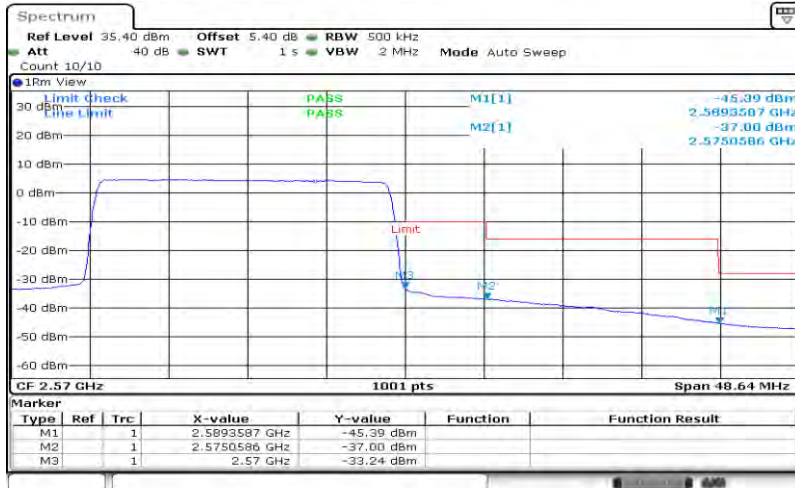


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Date: 14.NOV.2019 00:20:34

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



Date: 14.NOV.2019 00:21:57



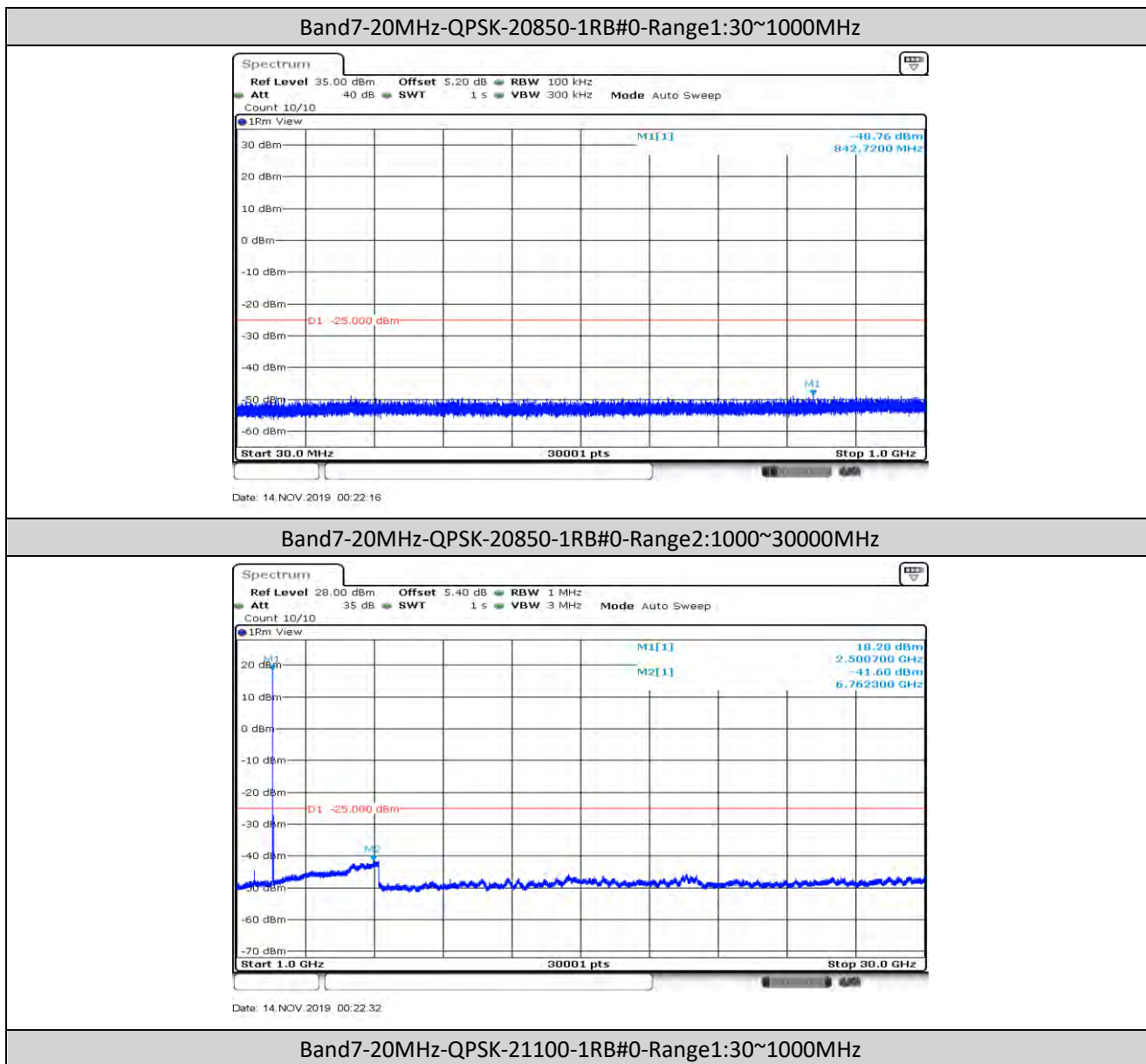
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6. Spurious Emission at Antenna Terminal

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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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
109.6410	-66.20	-25.00	41.20	Vertical
610.0405	-65.43	-25.00	40.43	Vertical
5002.2801	-52.86	-25.00	27.86	Vertical
7503.1801	-41.71	-25.00	16.71	Vertical
10004.6802	-37.78	-25.00	12.78	Vertical
17996.9999	-35.46	-25.00	10.46	Vertical
44.5992	-65.99	-25.00	40.99	Horizontal
230.0725	-69.71	-25.00	44.71	Horizontal
726.7373	-64.29	-25.00	39.29	Horizontal
7503.1801	-47.45	-25.00	22.45	Horizontal
11297.1319	-49.01	-25.00	24.01	Horizontal
16390.1356	-38.70	-25.00	13.70	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.7080	-66.67	-25.00	41.67	Vertical
745.1683	-63.39	-25.00	38.39	Vertical
5052.0821	-54.82	-25.00	29.82	Vertical
7578.1831	-44.29	-25.00	19.29	Vertical
10104.2842	-41.28	-25.00	16.28	Vertical
17989.1996	-35.79	-25.00	10.79	Vertical
43.9202	-64.97	-25.00	39.97	Horizontal
230.9941	-69.03	-25.00	44.03	Horizontal
858.2759	-62.01	-25.00	37.01	Horizontal
7578.1831	-49.27	-25.00	24.27	Horizontal
12416.7767	-47.97	-25.00	22.97	Horizontal
16392.5357	-39.62	-25.00	14.62	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.0404	-66.31	-25.00	41.31	Vertical
692.4461	-64.40	-25.00	39.40	Vertical
5102.4841	-55.17	-25.00	30.17	Vertical
7653.1861	-44.73	-25.00	19.73	Vertical
10204.4882	-43.65	-25.00	18.65	Vertical
17998.1999	-35.24	-25.00	10.24	Vertical
43.9202	-65.32	-25.00	40.32	Horizontal
239.7245	-68.84	-25.00	43.84	Horizontal
773.9302	-62.36	-25.00	37.36	Horizontal
7653.1861	-51.56	-25.00	26.56	Horizontal
12403.5761	-47.72	-25.00	22.72	Horizontal
16403.9362	-39.43	-25.00	14.43	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	9.20	0.003665	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-11.80	-0.004701	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	2.90	0.001155	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-4.70	-0.001854	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-1.50	-0.000592	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	4.40	0.001736	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-8.10	-0.003164	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-7.50	-0.002930	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-6.00	-0.002344	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	0.30	0.000120	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	1.60	0.000637	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	8.70	0.003466	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-8.10	-0.003195	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-9.60	-0.003787	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	0.30	0.000118	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-1.30	-0.000508	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-2.70	-0.001055	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-10.70	-0.004180	±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	-8.10	-0.003227	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-6.00	-0.002390	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-2.30	-0.000916	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-1.60	-0.000637	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	3.50	0.001394	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-0.60	-0.000239	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	6.70	0.002669	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	5.30	0.002112	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-5.50	-0.002170	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-2.40	-0.000947	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-2.80	-0.001105	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-7.70	-0.003037	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-5.20	-0.002051	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	8.80	0.003471	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	8.20	0.003235	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	2.50	0.000986	±2.5	PASS



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Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-4.40	-0.001719	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-7.70	-0.003008	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-6.00	-0.002344	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-9.80	-0.003828	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-4.10	-0.001602	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-14.20	-0.005547	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	0.70	0.000273	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-0.30	-0.000117	±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	-6.30	-0.002510	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-5.60	-0.002231	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-1.70	-0.000677	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-7.60	-0.003028	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	6.60	0.002629	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	4.00	0.001594	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-3.90	-0.001554	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	8.00	0.003156	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-5.20	-0.002051	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	0.30	0.000118	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-5.30	-0.002091	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-4.90	-0.001933	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-8.50	-0.003353	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-5.20	-0.002051	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-7.20	-0.002840	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-6.10	-0.002383	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-4.50	-0.001758	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-3.70	-0.001445	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-4.00	-0.001563	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-3.70	-0.001445	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-6.20	-0.002422	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	-4.60	-0.001797	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-0.60	-0.000234	±2.5	PASS



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