



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	22.08	22.54	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.26	22.72	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.14	22.60	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.16	21.62	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.06	21.52	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.08	21.54	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.08	21.54	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.19	22.65	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.11	22.57	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.22	22.68	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.08	21.54	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.11	21.57	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.00	21.46	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.04	21.50	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	21.66	22.12	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	21.82	22.28	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	21.87	22.33	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	20.75	21.21	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	20.82	21.28	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	20.61	21.07	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	20.67	21.13	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.42	21.88	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.47	21.93	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.34	21.80	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.06	20.52	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.12	20.58	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.10	20.56	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.03	20.49	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.15	21.61	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.22	21.68	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.10	21.56	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.06	20.52	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.06	20.52	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.01	20.47	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.12	20.58	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	20.81	21.27	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	20.81	21.27	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	20.59	21.05	33.00	PASS



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Band7	5MHz	16QAM	21425	12RB#0	19.72	20.18	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	19.72	20.18	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	19.63	20.09	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	19.72	20.18	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.33	22.79	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.08	22.54	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.08	22.54	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.17	21.63	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.15	21.61	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.17	21.63	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.09	21.55	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.22	22.68	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.08	22.54	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.25	22.71	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.09	21.55	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.14	21.60	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.15	21.61	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.09	21.55	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	21.99	22.45	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.00	22.46	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	21.73	22.19	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	20.91	21.37	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	20.79	21.25	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	20.90	21.36	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	20.81	21.27	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.37	21.83	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.41	21.87	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.45	21.91	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.10	20.56	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.06	20.52	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.14	20.60	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.02	20.48	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.32	21.78	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.40	21.86	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.46	21.92	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.09	20.55	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.20	20.66	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.11	20.57	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.13	20.59	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	20.85	21.31	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	20.81	21.27	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	20.62	21.08	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	19.93	20.39	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	19.92	20.38	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	19.78	20.24	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	19.82	20.28	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.24	22.70	33.00	PASS



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Band7	15MHz	QPSK	20825	1RB#38	22.33	22.79	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.10	22.56	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	21.31	21.77	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	21.25	21.71	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	21.30	21.76	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.23	21.69	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.38	22.84	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.18	22.64	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.38	22.84	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	21.24	21.70	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	21.17	21.63	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	21.10	21.56	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.15	21.61	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	21.65	22.11	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.03	22.49	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	21.98	22.44	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	20.98	21.44	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	20.99	21.45	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	20.91	21.37	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	20.91	21.37	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.55	22.01	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.58	22.04	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.40	21.86	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	20.17	20.63	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	20.23	20.69	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	20.22	20.68	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.16	20.62	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.21	21.67	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.22	21.68	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.01	21.47	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	20.01	20.47	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	20.05	20.51	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	20.05	20.51	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.07	20.53	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.15	21.61	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.27	21.73	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	20.80	21.26	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	20.01	20.47	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	19.93	20.39	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	19.74	20.20	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	19.78	20.24	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.01	22.47	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.37	22.83	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.05	22.51	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.21	21.67	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	21.10	21.56	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.13	21.59	33.00	PASS



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Band7	20MHz	QPSK	20850	100RB#0	21.12	21.58	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.91	22.37	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	21.77	22.23	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.22	22.68	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.02	21.48	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.19	21.65	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.11	21.57	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.15	21.61	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.32	22.78	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	21.92	22.38	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	21.59	22.05	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	20.92	21.38	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	20.82	21.28	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	20.95	21.41	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	20.82	21.28	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.27	21.73	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.20	21.66	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.63	22.09	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.12	20.58	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.10	20.56	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.13	20.59	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.07	20.53	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	20.93	21.39	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.10	21.56	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.44	21.90	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.18	20.64	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.23	20.69	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.18	20.64	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.04	20.50	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.28	21.74	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	20.99	21.45	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	20.56	21.02	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	19.96	20.42	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	19.96	20.42	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	19.79	20.25	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	19.83	20.29	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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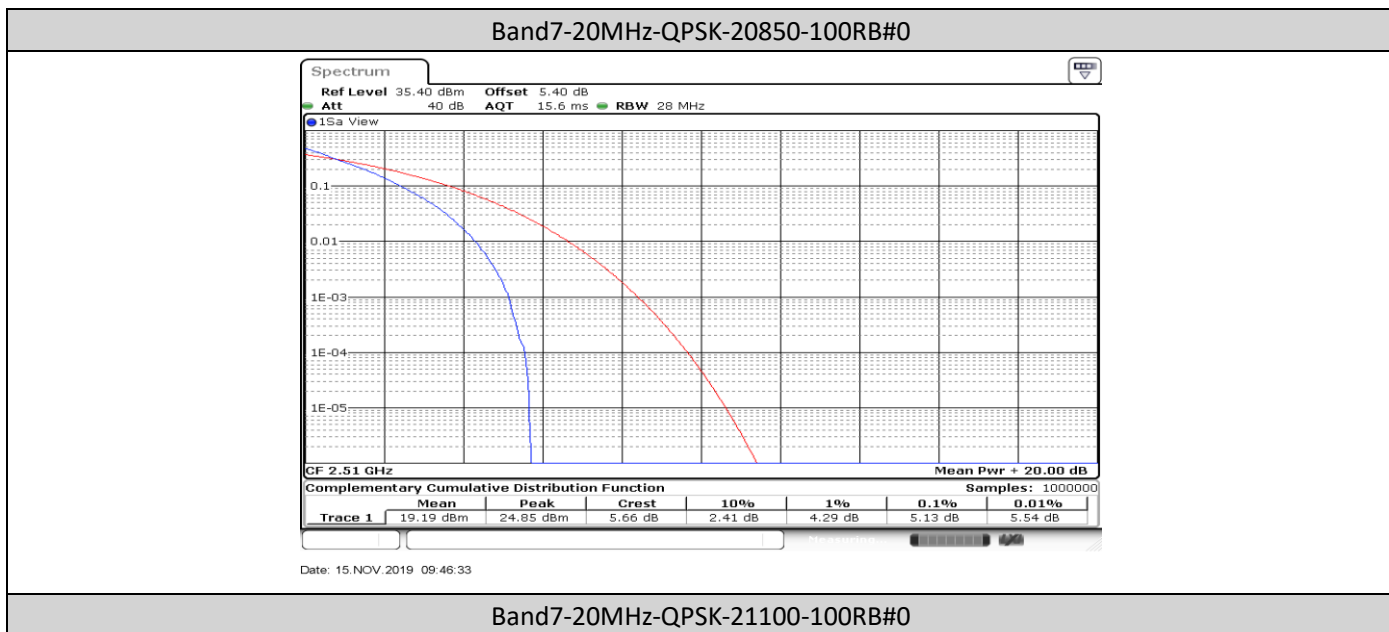


2. Peak-to-Average Ratio (CCDF)

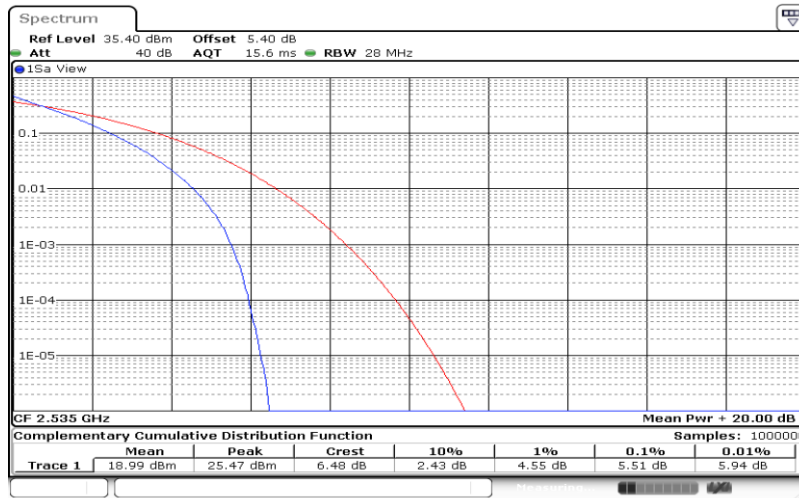
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.13	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.51	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	6.38	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.09	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.38	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.41	13	PASS

2.2. Test Plots

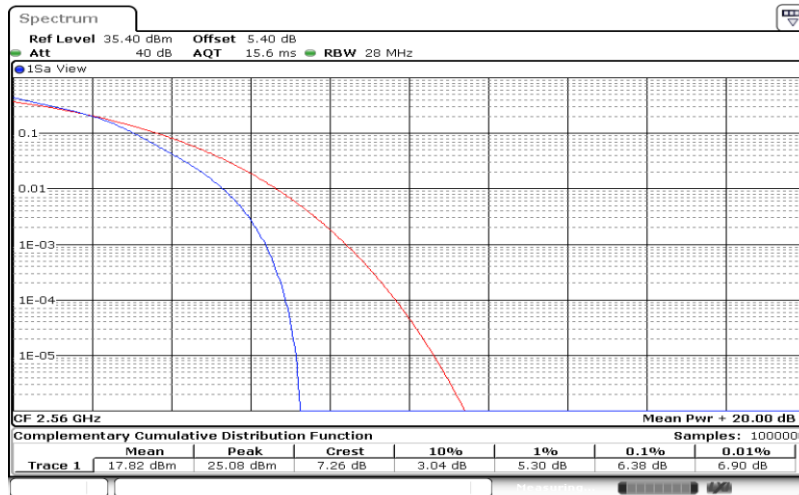


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Date: 15.NOV.2019 09:46:53

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

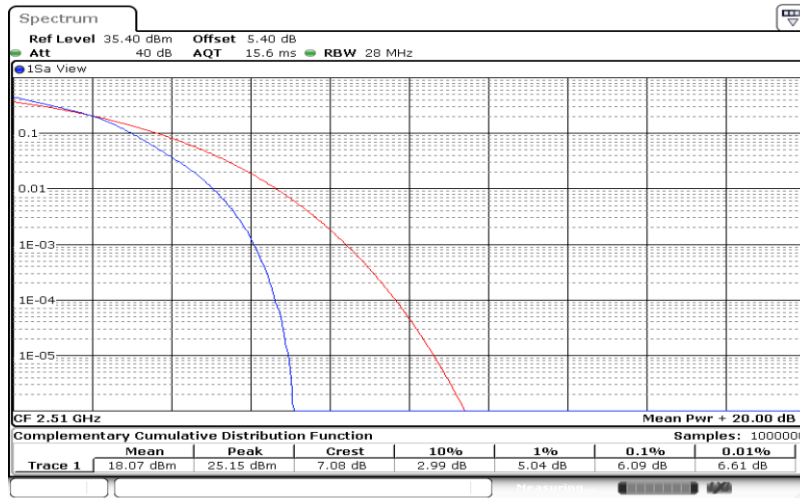


Date: 15.NOV.2019 09:47:13

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

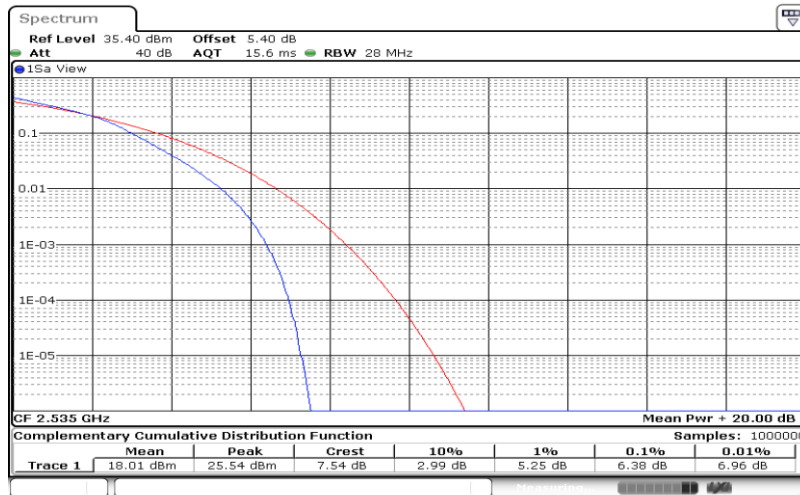


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Date: 15.NOV.2019 09:46:42

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

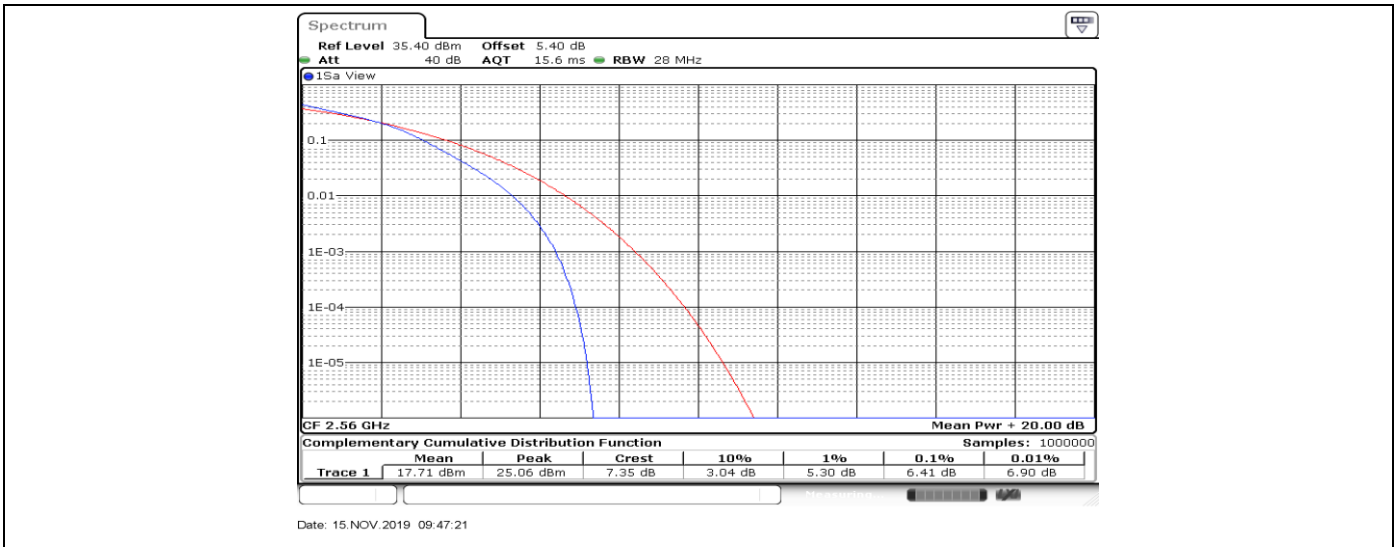


Date: 15.NOV.2019 09:47:01

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



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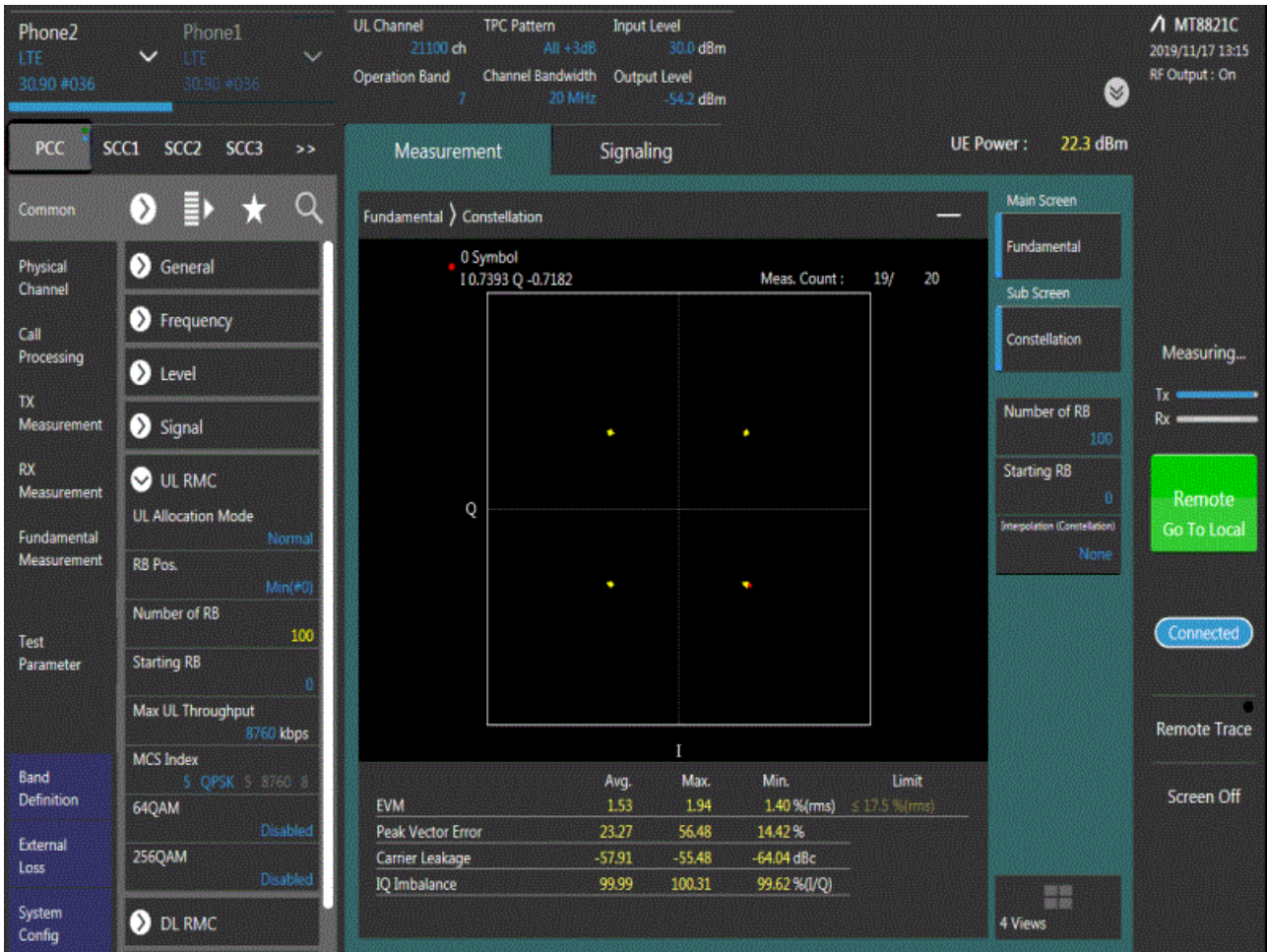
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

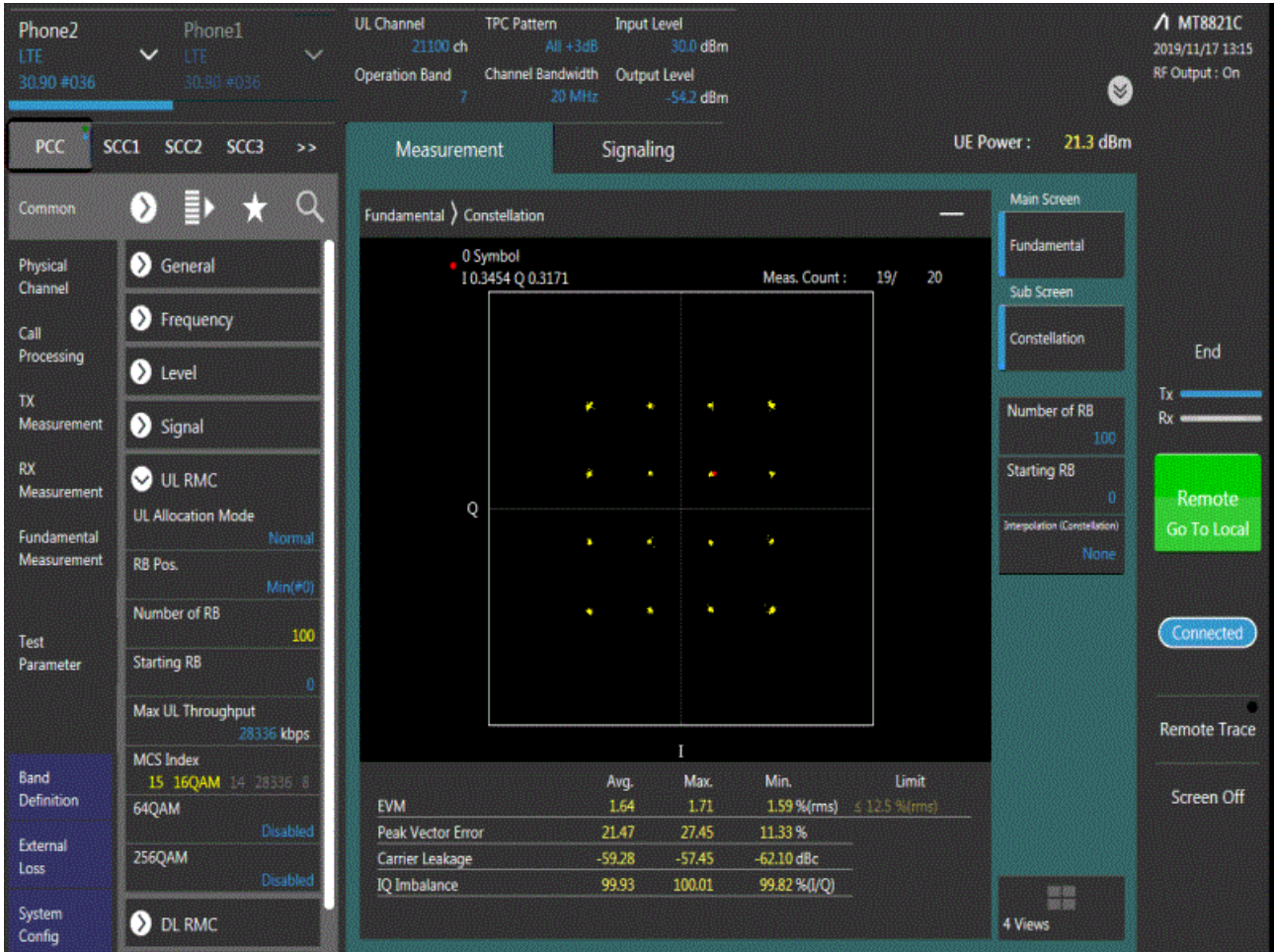
3.1.1.1. Test Channel = MCH



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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

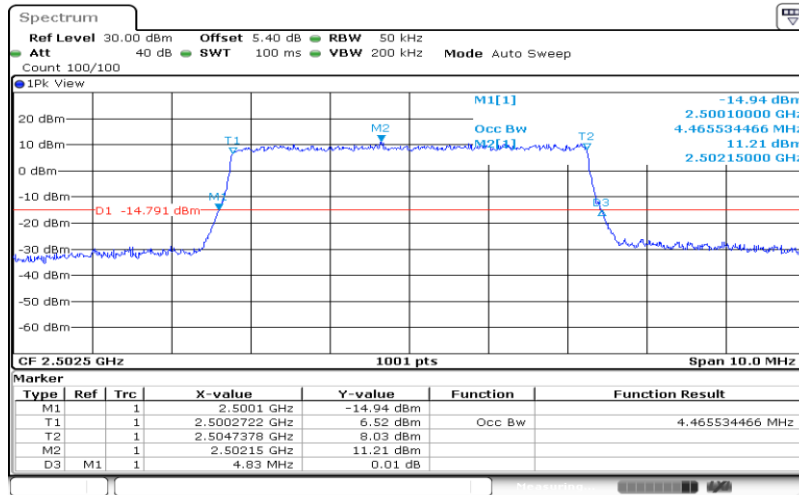
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.466	4.830	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.850	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.880	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.466	4.870	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.476	4.860	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.466	4.810	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.820	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.620	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.931	9.600	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.931	9.520	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.931	9.640	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.951	9.640	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.730	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.427	14.700	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.487	14.820	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.700	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.427	14.700	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.487	15.270	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.942	19.520	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.862	20.120	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.902	19.200	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.160	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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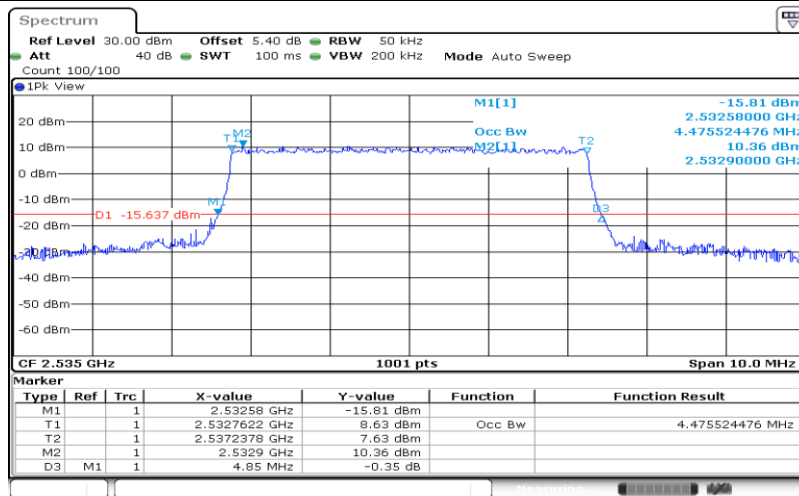
4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.466



Date: 15.NOV.2019 09:16:39

Band7-5MHz-QPSK-21100-25RB#0-4.476

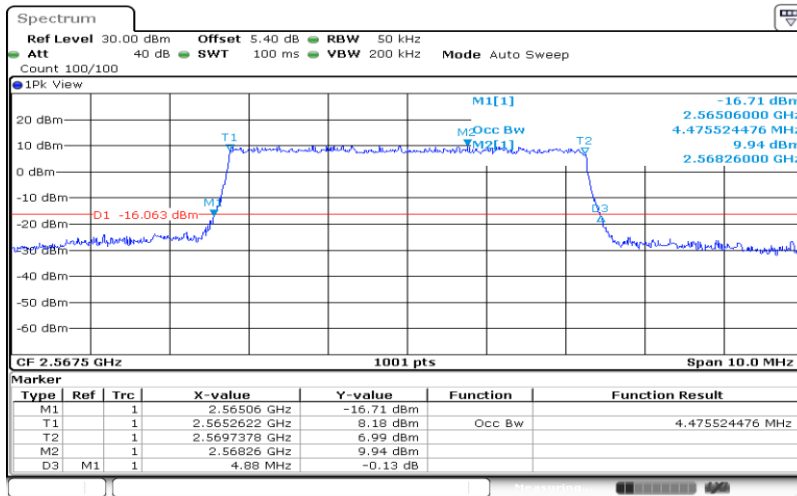


Date: 15.NOV.2019 09:17:16

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

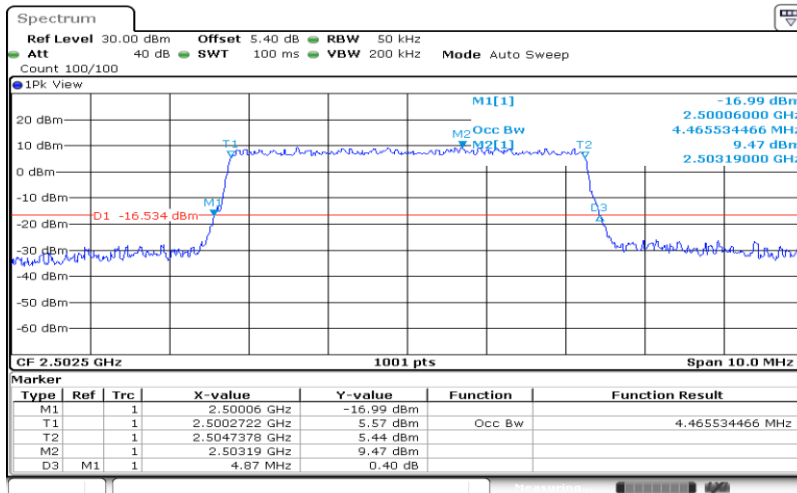


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Date: 15.NOV.2019 09:17:52

Band7-5MHz-16QAM-20775-25RB#0-4.466



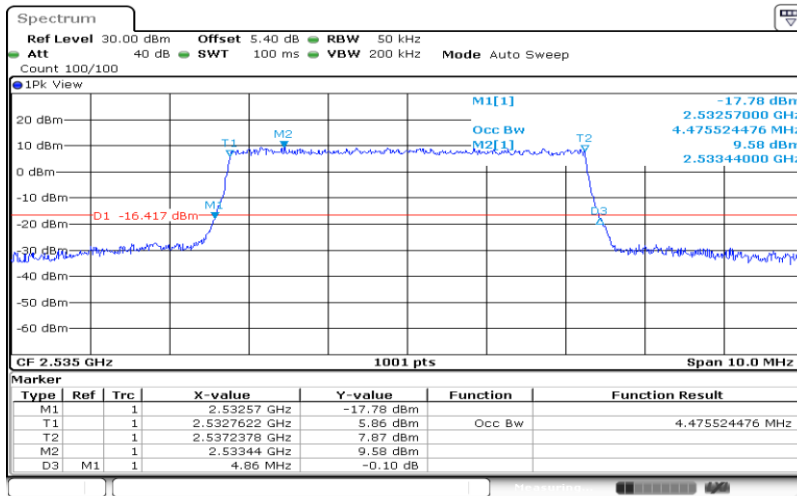
Date: 15.NOV.2019 09:16:56

Band7-5MHz-16QAM-21100-25RB#0-4.476



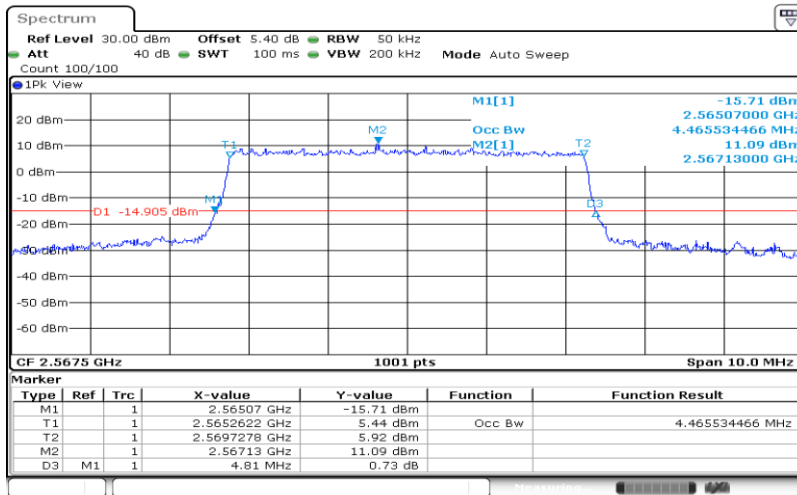
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Date: 15.NOV.2019 09:17:33

Band7-5MHz-16QAM-21425-25RB#0-4.466

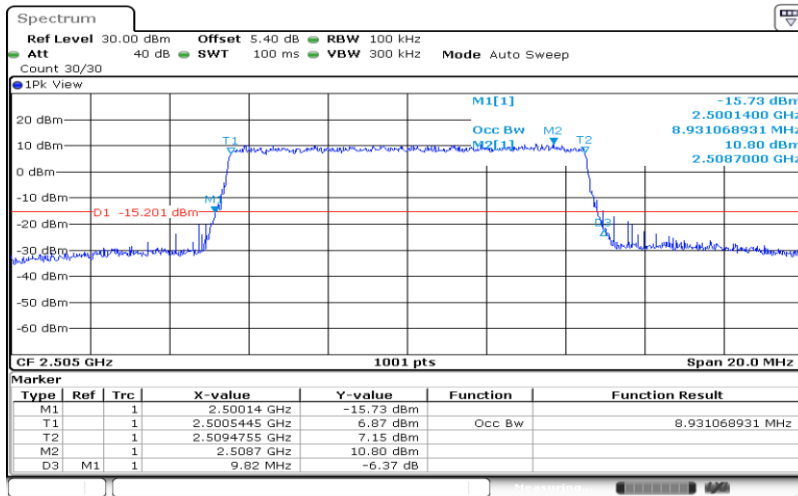


Date: 15.NOV.2019 09:18:09

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

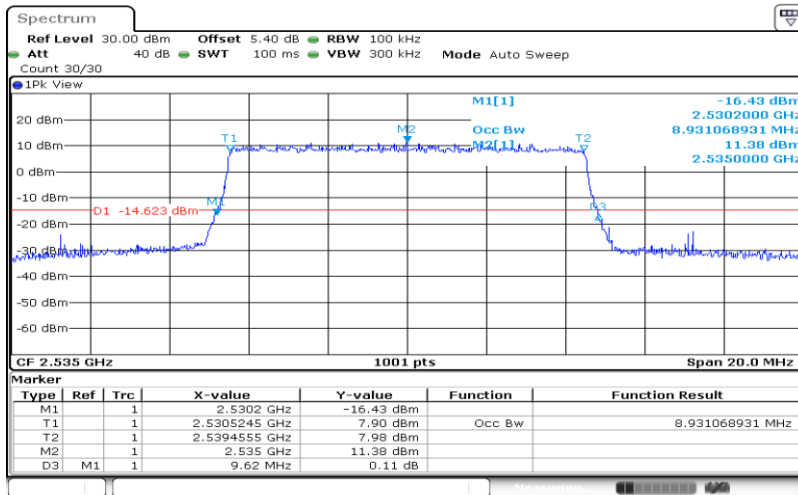


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Date: 15.NOV.2019 09:19:45

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

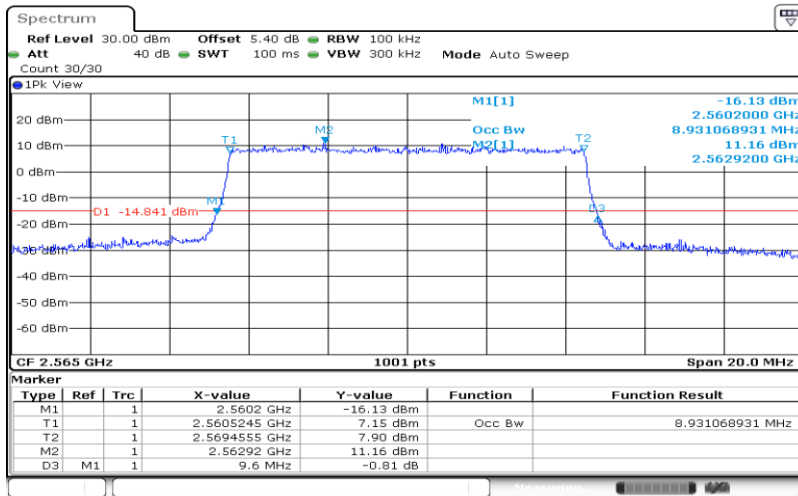


Date: 15.NOV.2019 09:20:08

Band7-10MHz-QPSK-21400-50RB#0-8.931

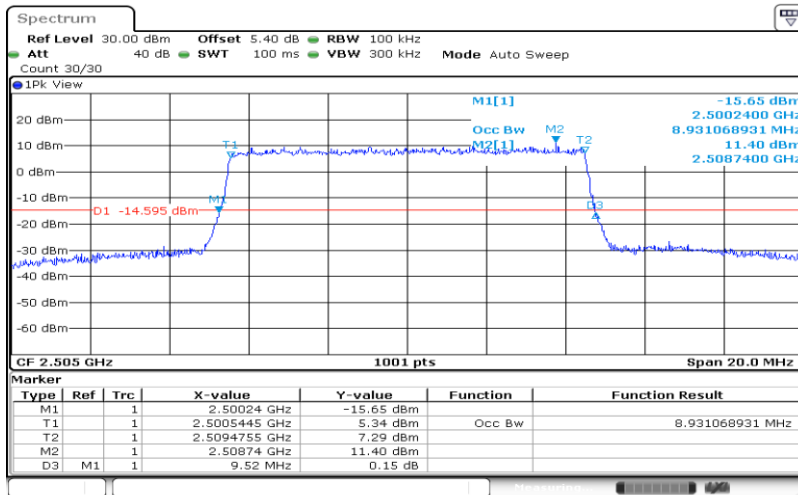


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Date: 15.NOV.2019 09:20:31

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

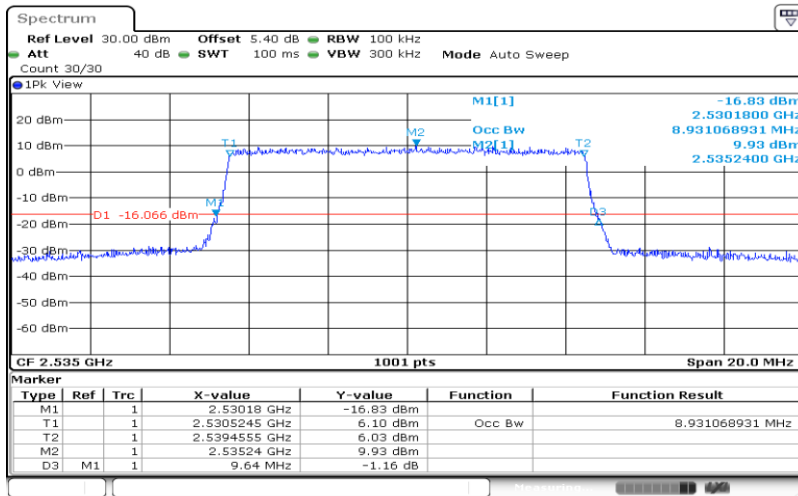


Date: 15.NOV.2019 09:19:55

Band7-10MHz-16QAM-21100-50RB#0-8.931

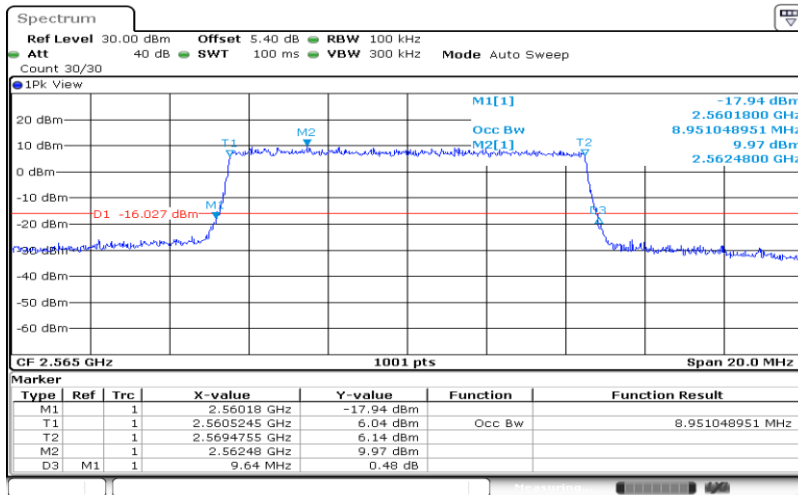


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Date: 15.NOV.2019 09:20:18

Band7-10MHz-16QAM-21400-50RB#0-8.951

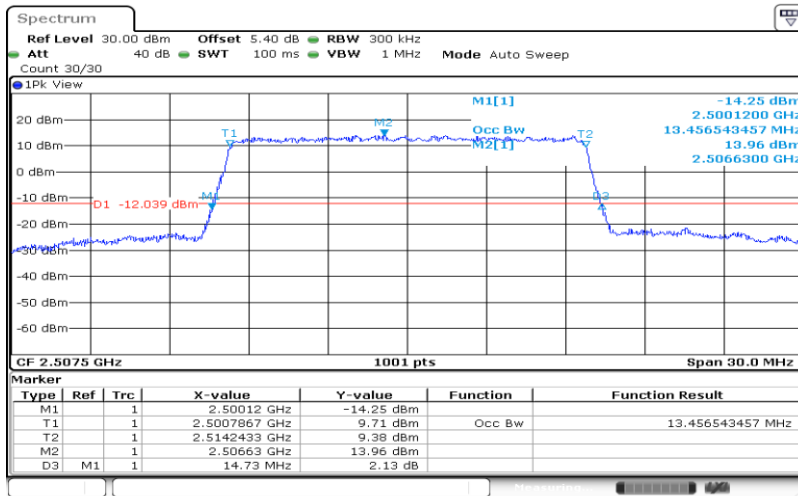


Date: 15.NOV.2019 09:20:41

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

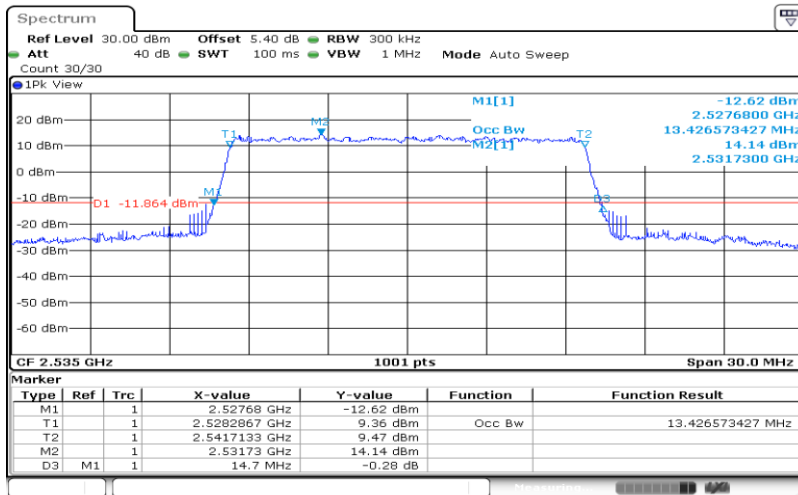


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Date: 15.NOV.2019 09:22:15

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

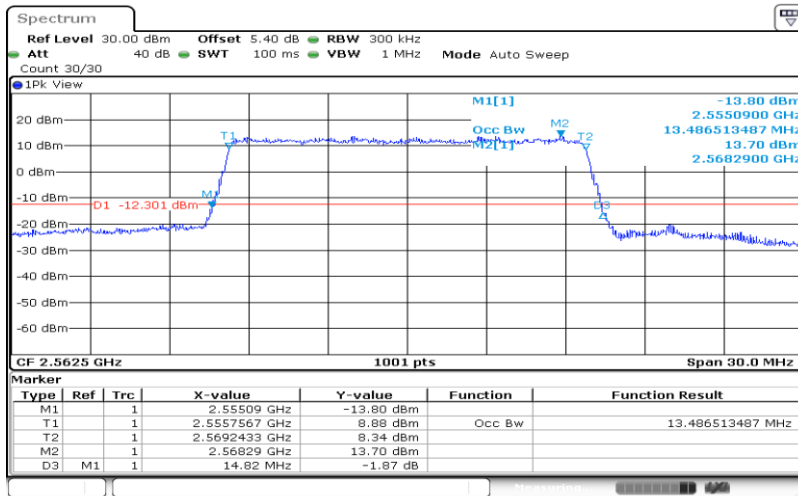


Date: 15.NOV.2019 09:22:38

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

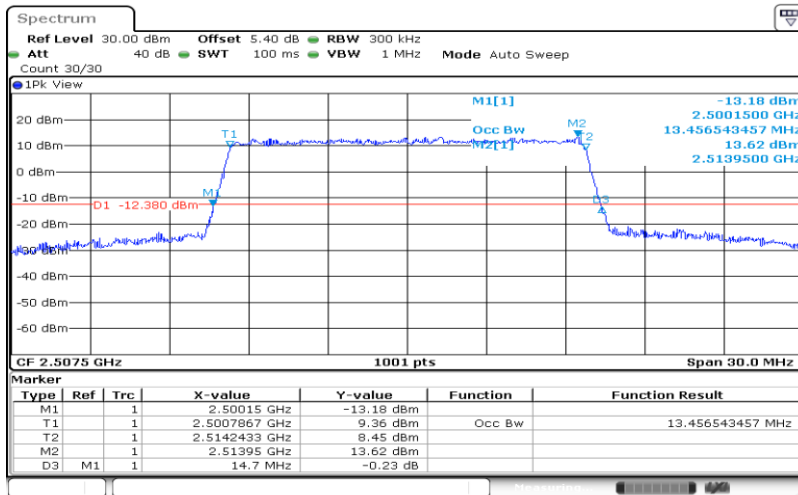


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Date: 15.NOV.2019 09:23:01

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

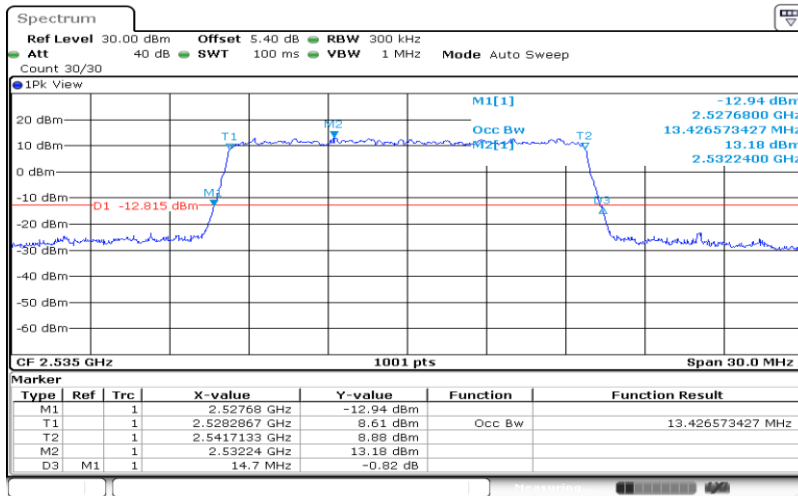


Date: 15.NOV.2019 09:22:25

Band7-15MHz-16QAM-21100-75RB#0-13.427

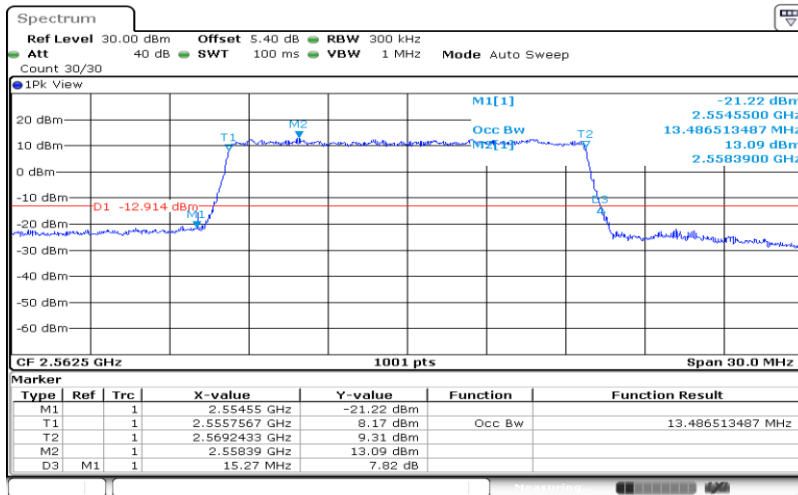


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Date: 15.NOV.2019 09:22:48

Band7-15MHz-16QAM-21375-75RB#0-13.487

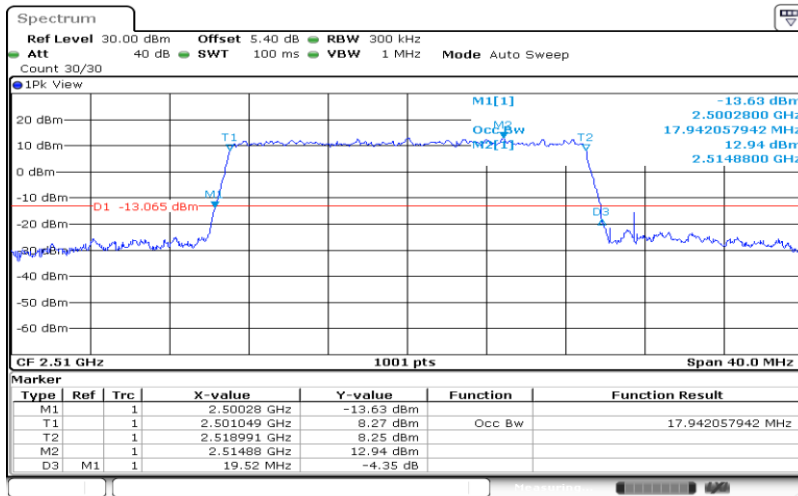


Date: 15.NOV.2019 09:23:11

Band7-20MHz-QPSK-20850-100RB#0-17.942

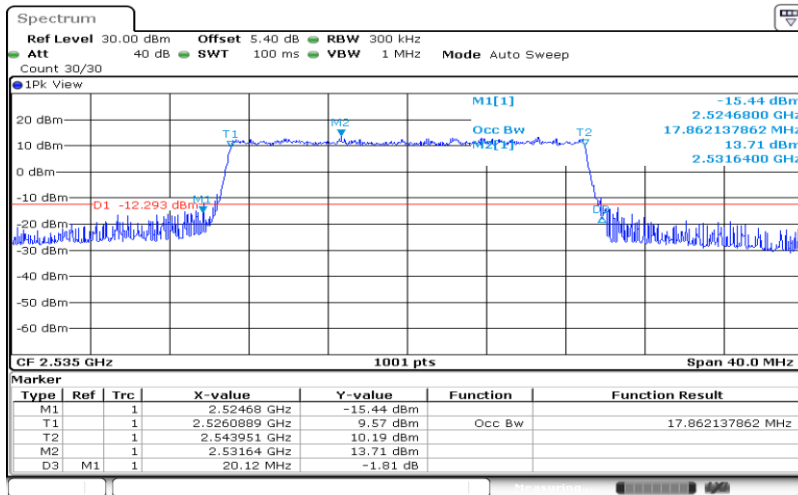


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Date: 15.NOV.2019 09:24:46

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



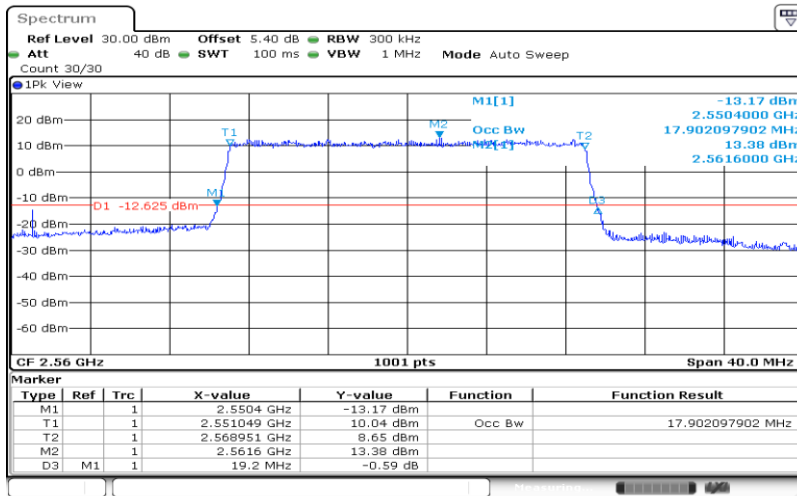
Date: 15.NOV.2019 09:25:10

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



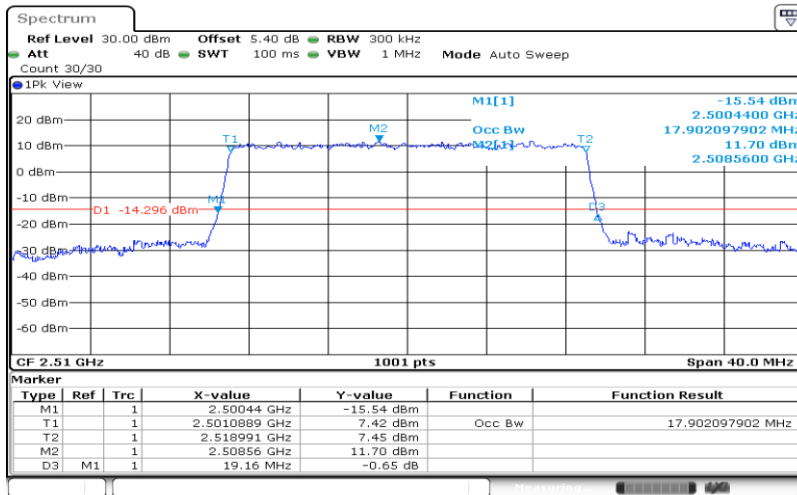
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Date: 15.NOV.2019 09:25:33

Band7-20MHz-16QAM-20850-100RB#0-17.902

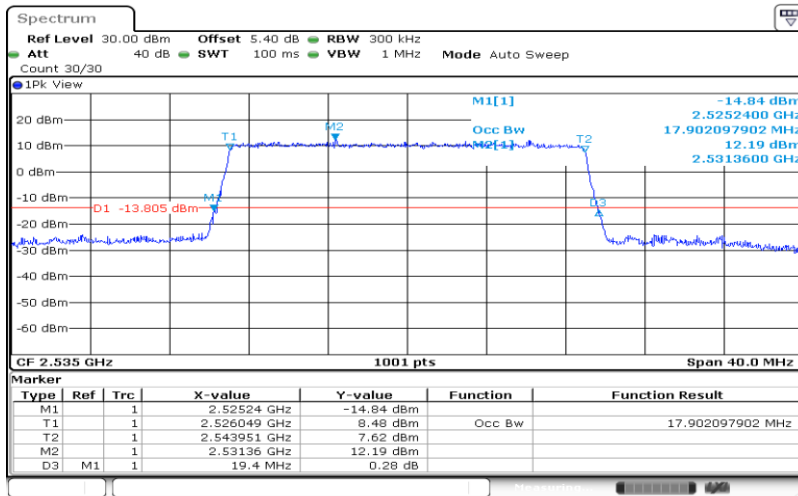


Date: 15.NOV.2019 09:24:57

Band7-20MHz-16QAM-21100-100RB#0-17.902

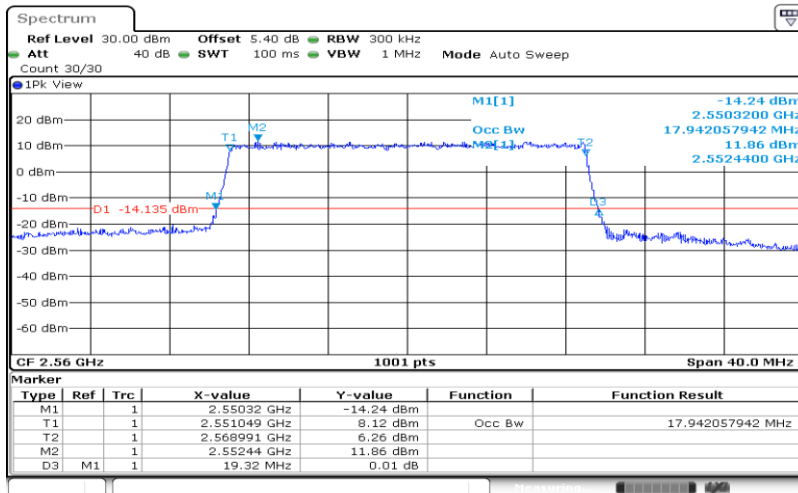


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Date: 15.NOV.2019 09:25:20

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



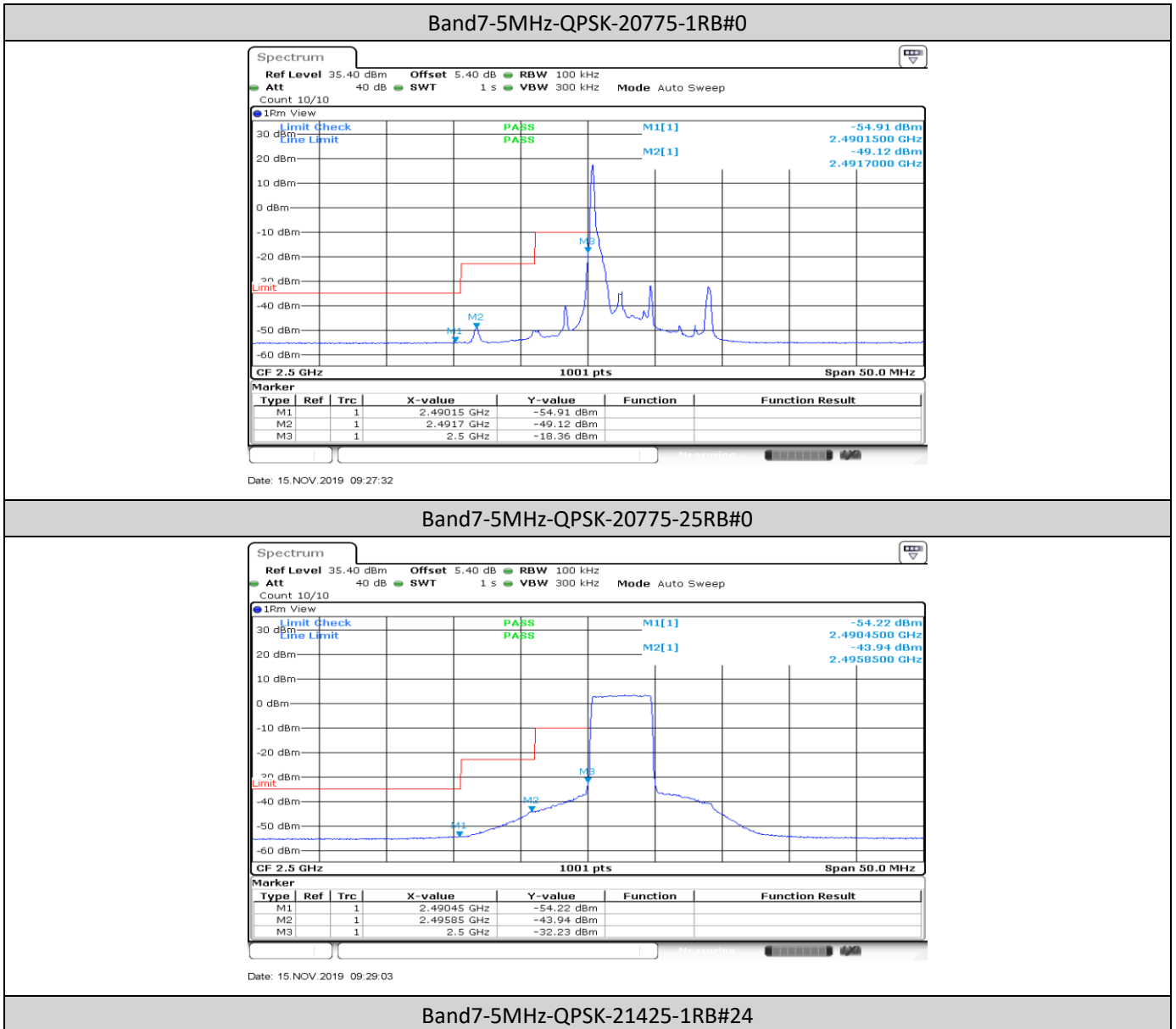
Date: 15.NOV.2019 09:25:44



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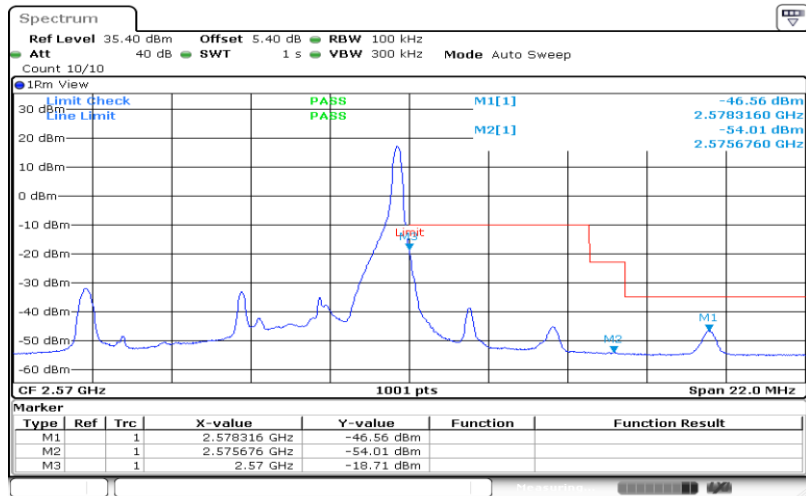
5. Band Edge Compliance

5.1. Test Plots



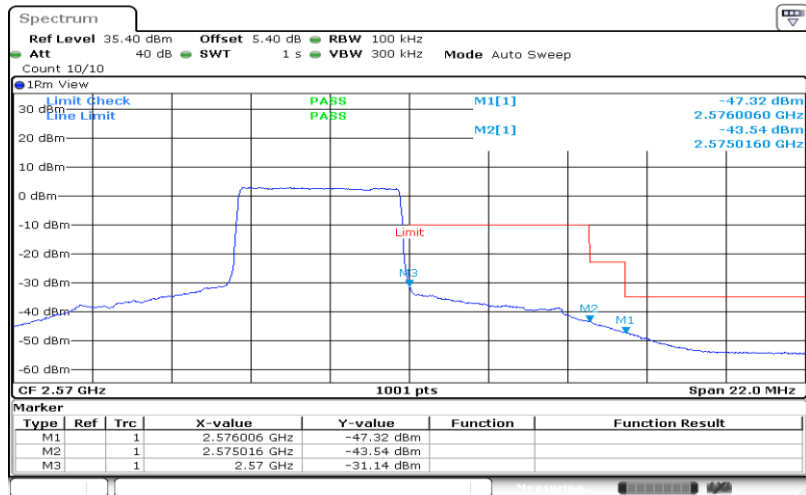
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Date: 15.NOV.2019 09:28:18

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

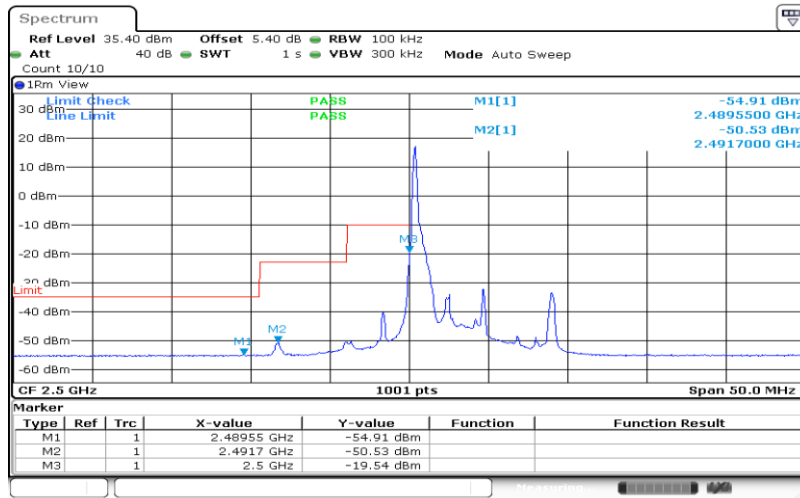


Date: 15.NOV.2019 09:29:41

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

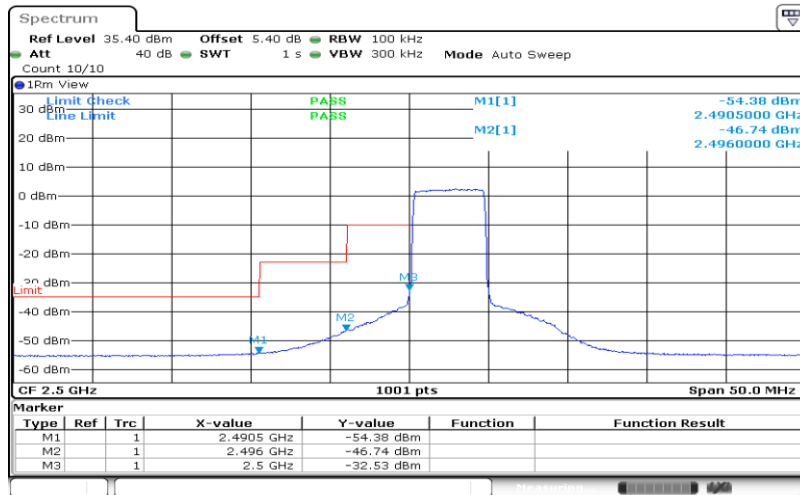


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Date: 15.NOV.2019 09:27:50

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

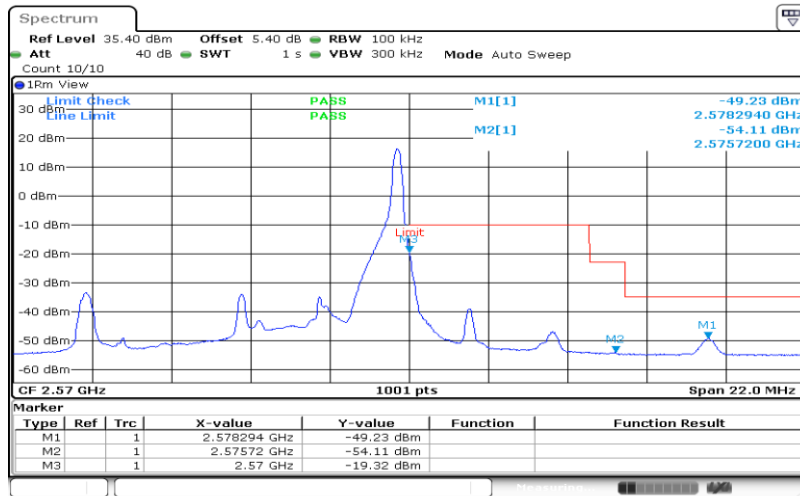


Date: 15.NOV.2019 09:29:20

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

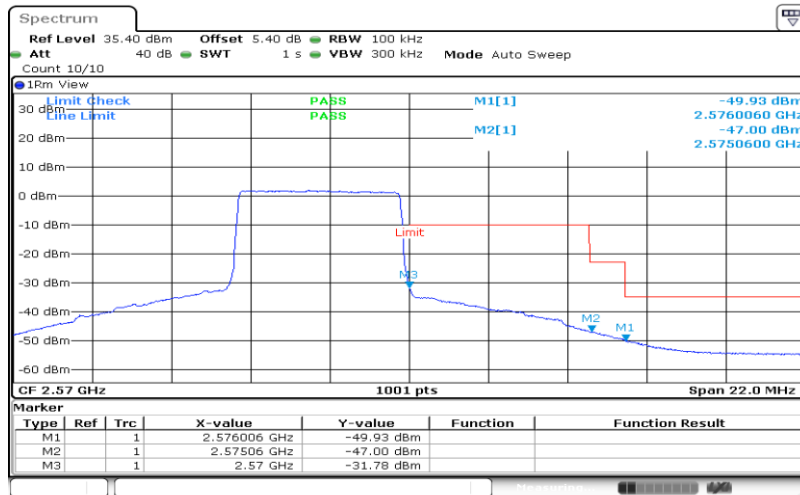


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Date: 15.NOV.2019 09:28:36

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



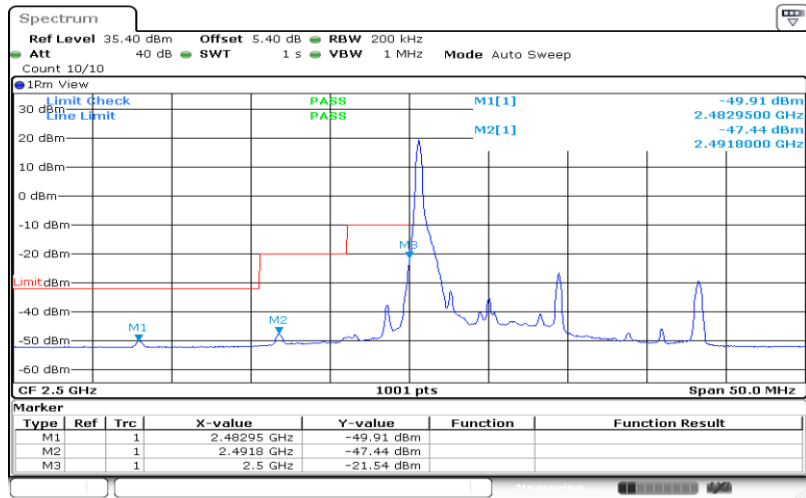
Date: 15.NOV.2019 09:29:59

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



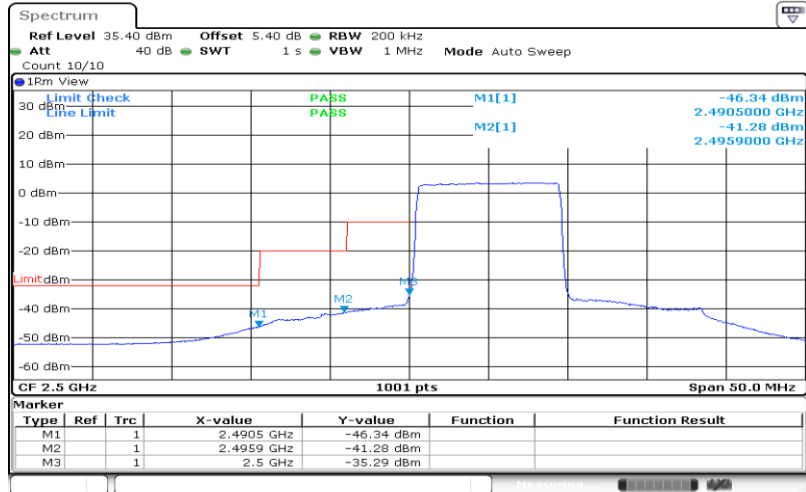
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Date: 15.NOV.2019 09:31:47

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

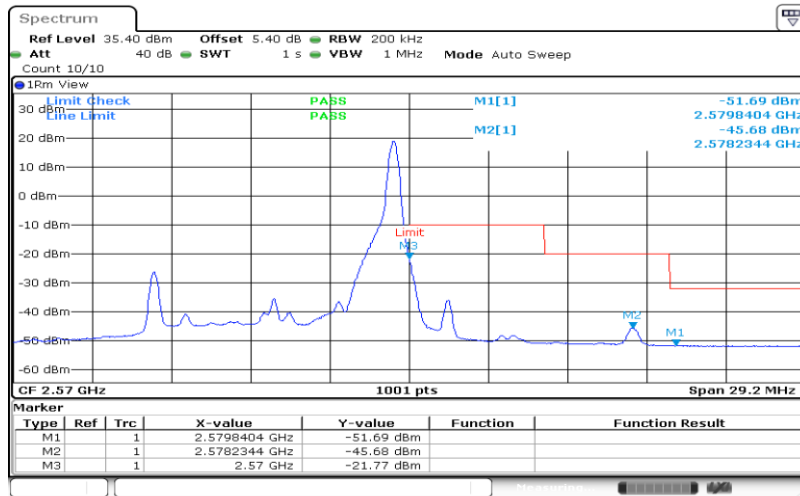


Date: 15.NOV.2019 09:33:18

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

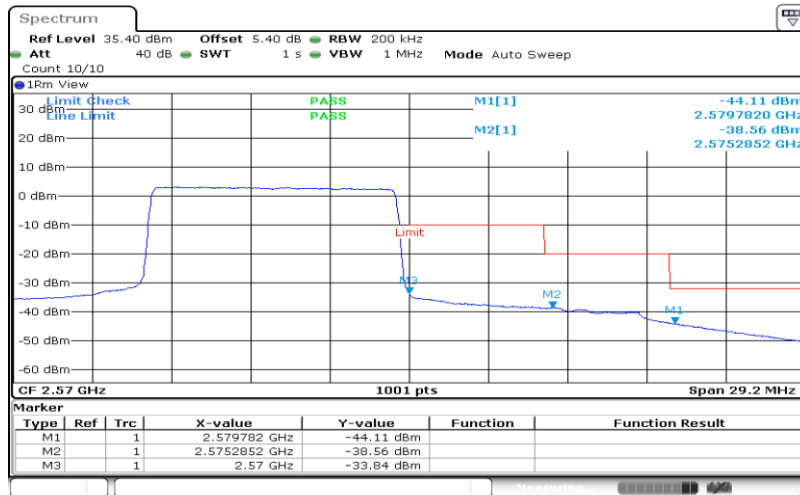


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Date: 15.NOV.2019 09:32:33

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



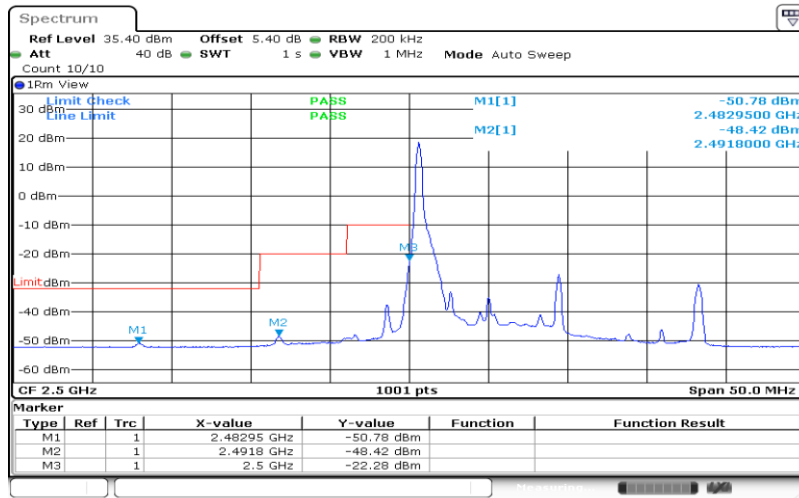
Date: 15.NOV.2019 09:33:57

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



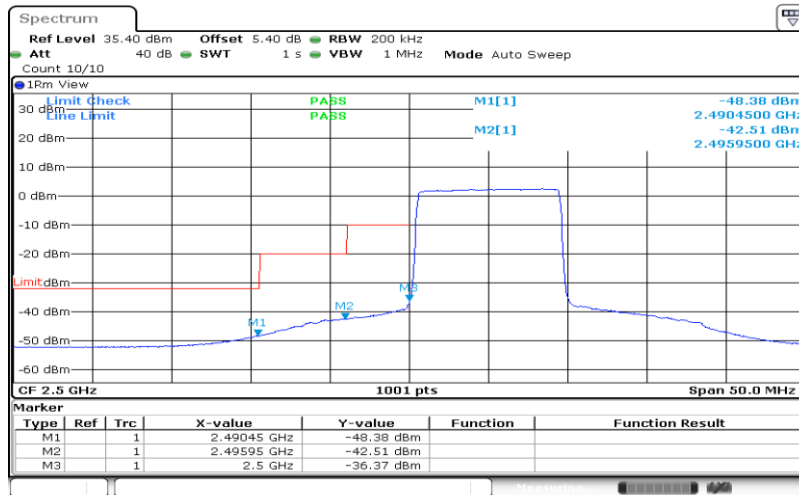
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Date: 15.NOV.2019 09:32:05

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

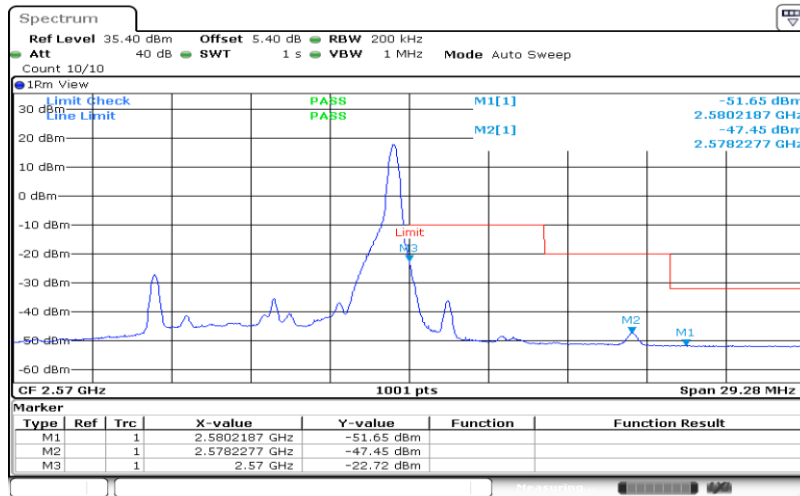


Date: 15.NOV.2019 09:33:36

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

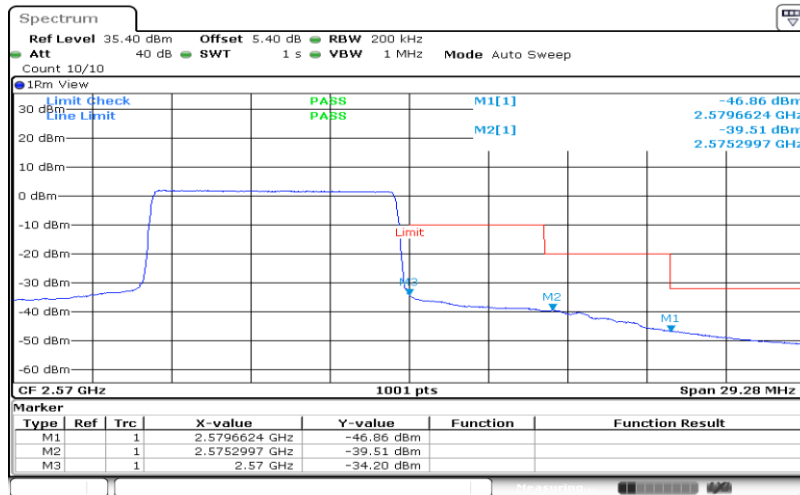


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Date: 15.NOV.2019 09:32:51

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

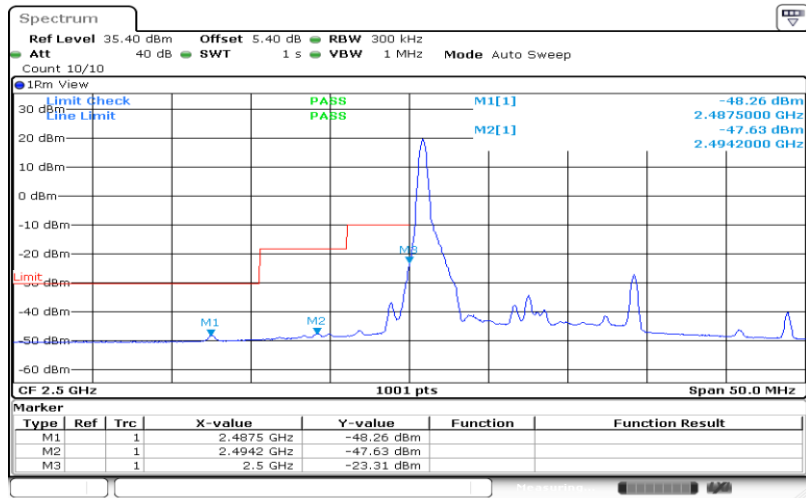


Date: 15.NOV.2019 09:34:15

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

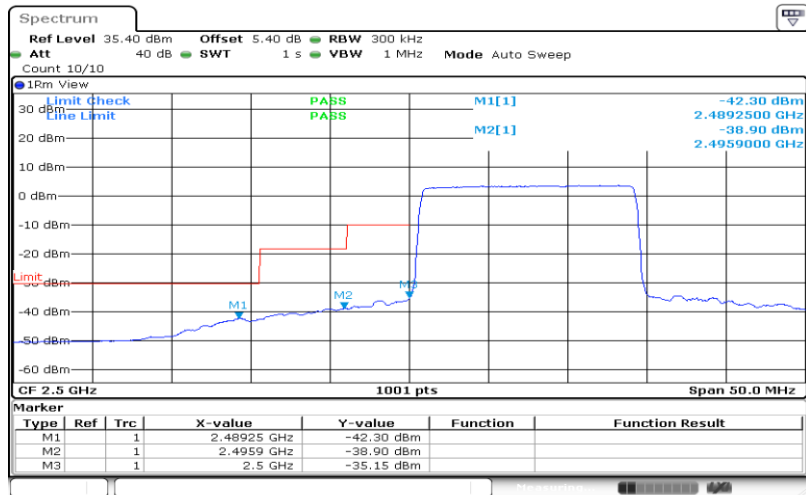


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Date: 15.NOV.2019 09:36:03

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

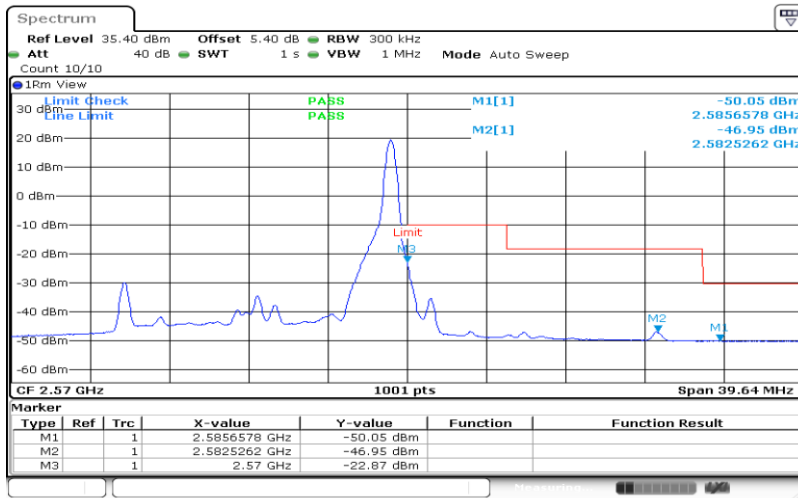


Date: 15.NOV.2019 09:37:35

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

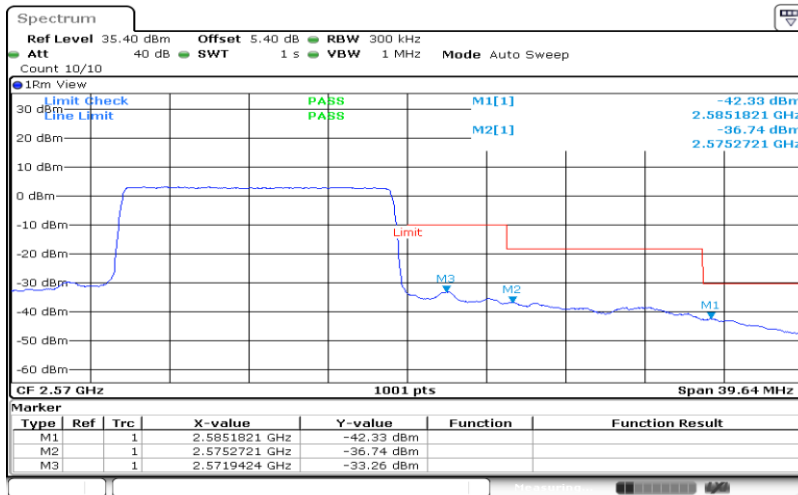


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Date: 15.NOV.2019 09:36:49

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

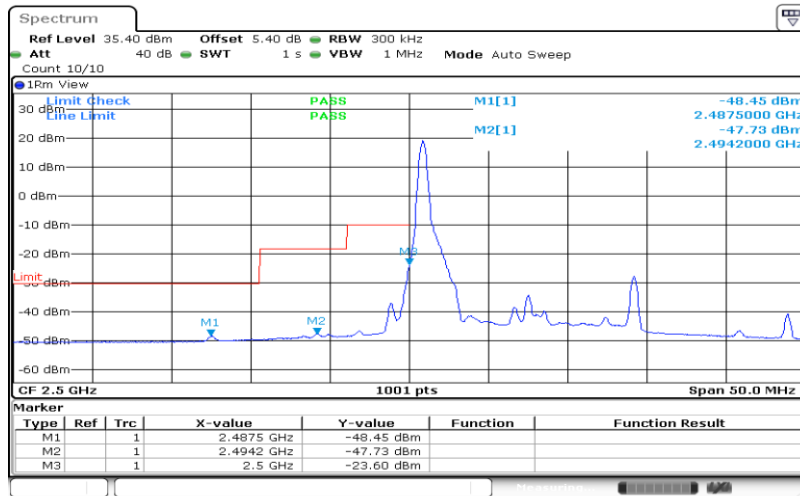


Date: 15.NOV.2019 09:38:16

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

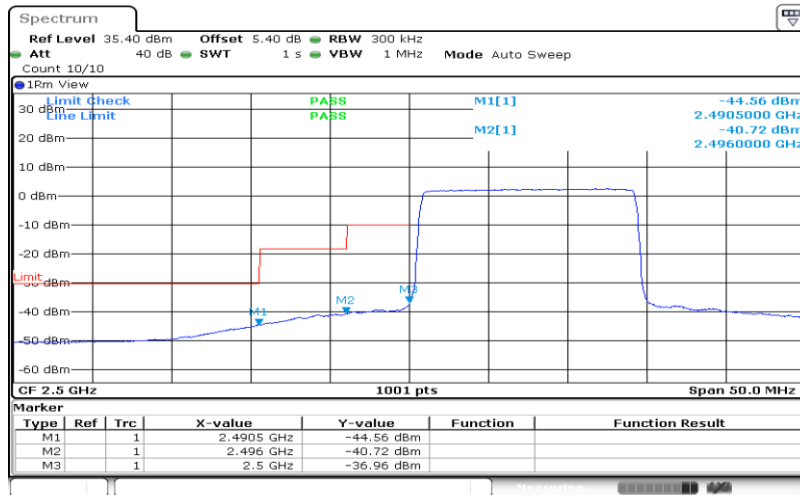


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Date: 15.NOV.2019 09:36:22

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

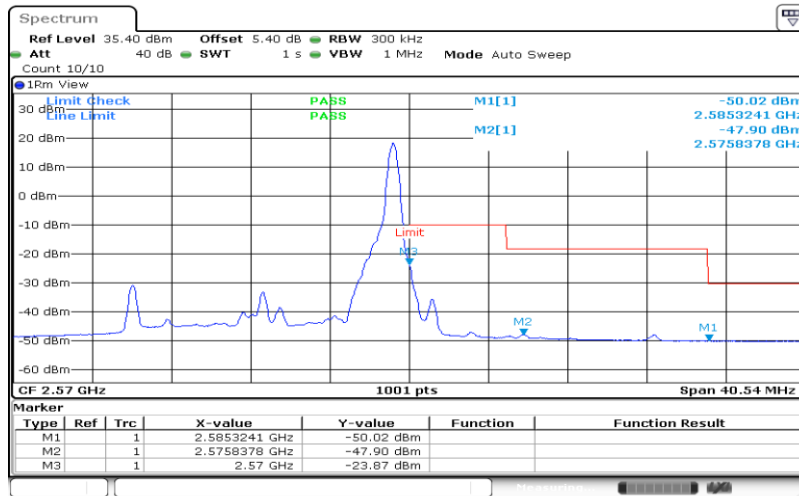


Date: 15.NOV.2019 09:37:54

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

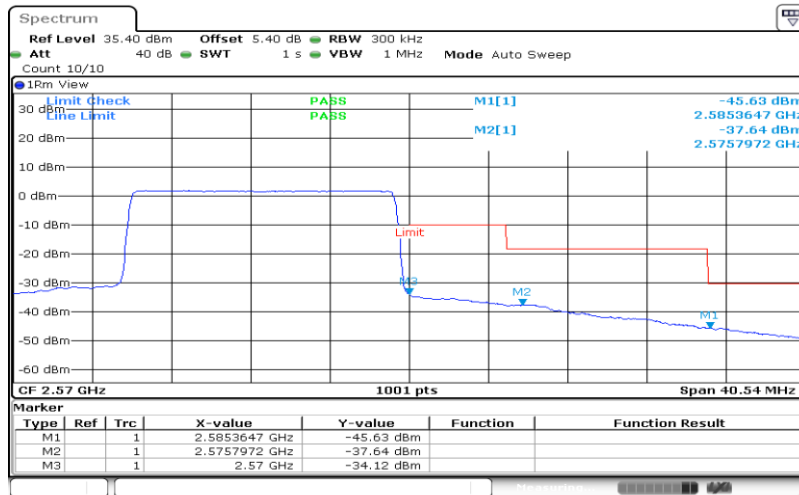


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Date: 15.NOV.2019 09:37:08

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

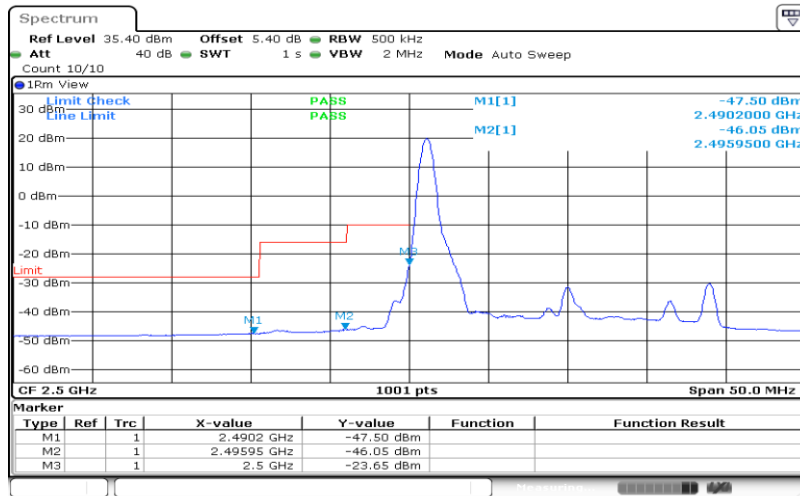


Date: 15.NOV.2019 09:38:34

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

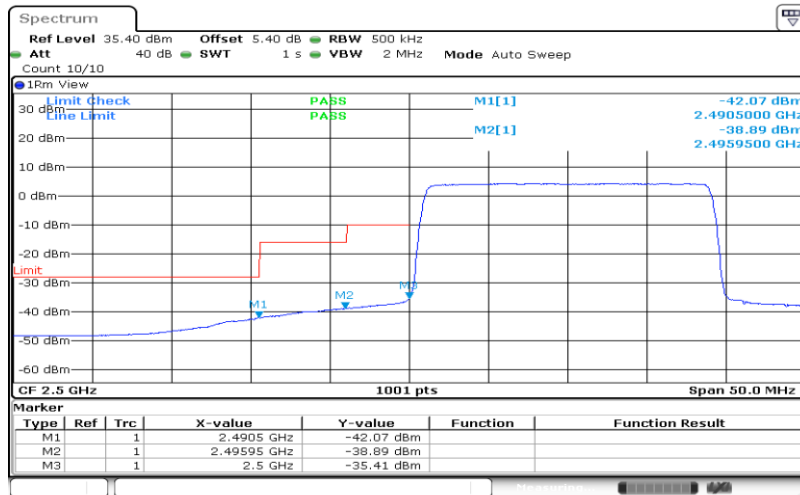


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Date: 15.NOV.2019 09:40:23

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

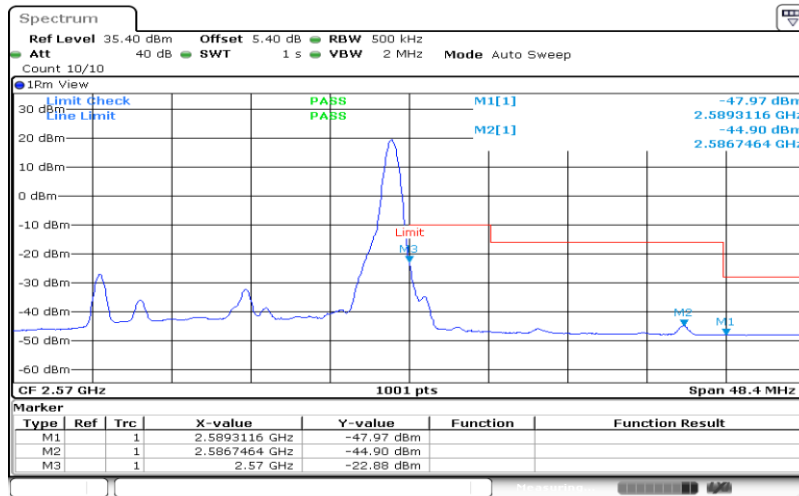


Date: 15.NOV.2019 09:41:57

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

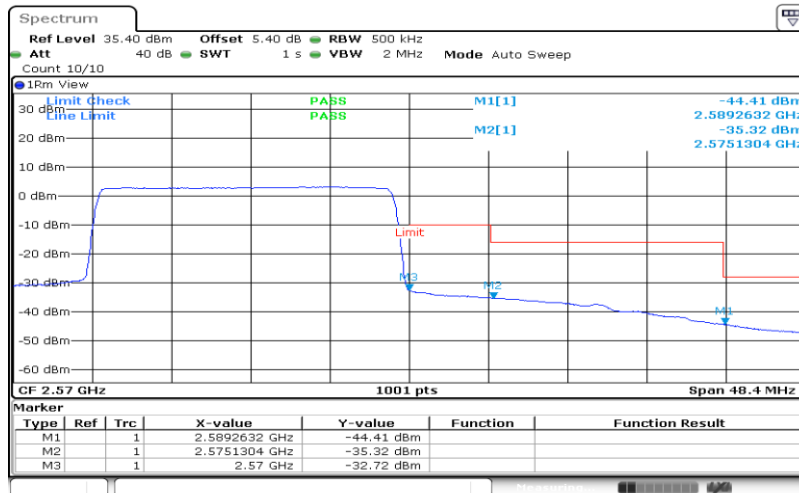


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Date: 15.NOV.2019 09:41:10

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

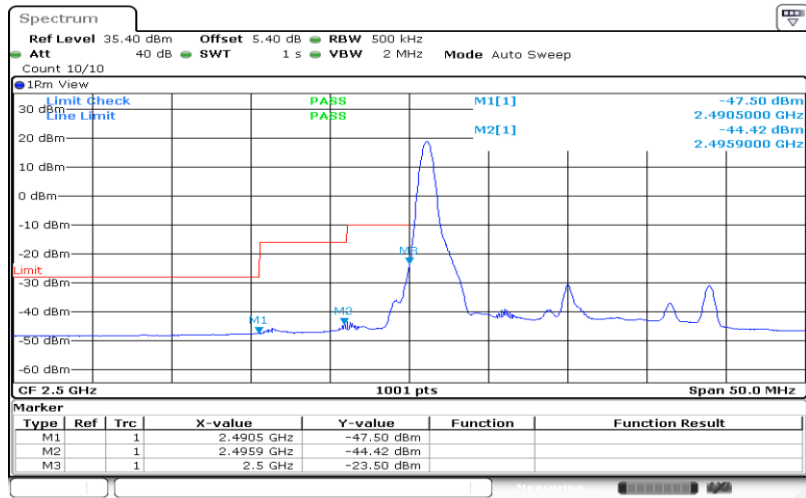


Date: 15.NOV.2019 09:42:38

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

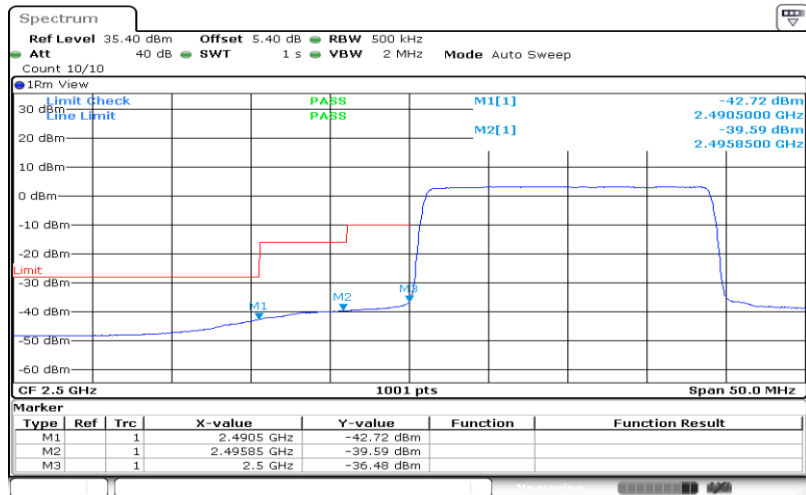


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Date: 15.NOV.2019 09:40:42

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

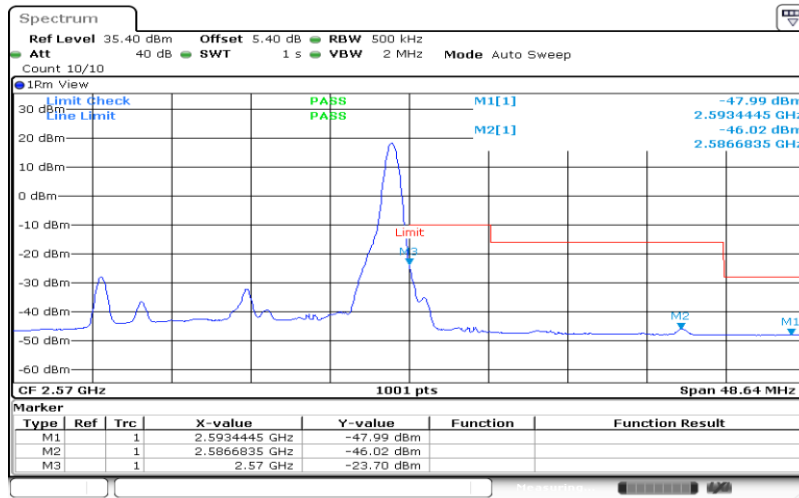


Date: 15.NOV.2019 09:42:16

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

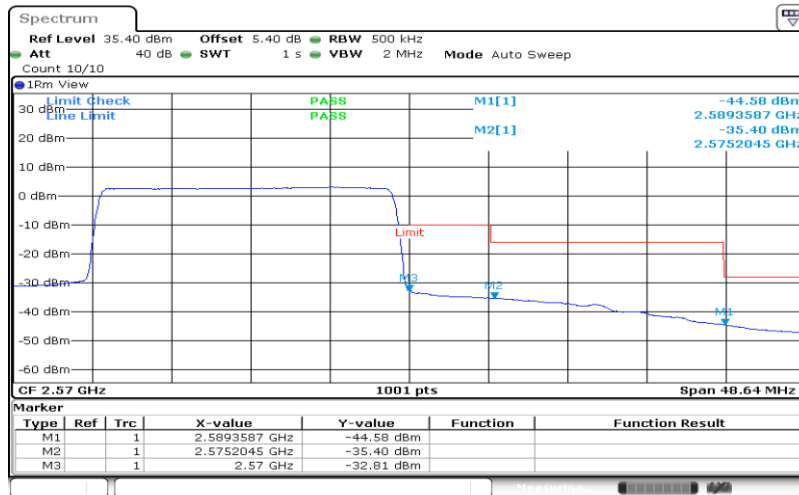


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Date: 15.NOV.2019 09:41:29

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



Date: 15.NOV.2019 09:42:57



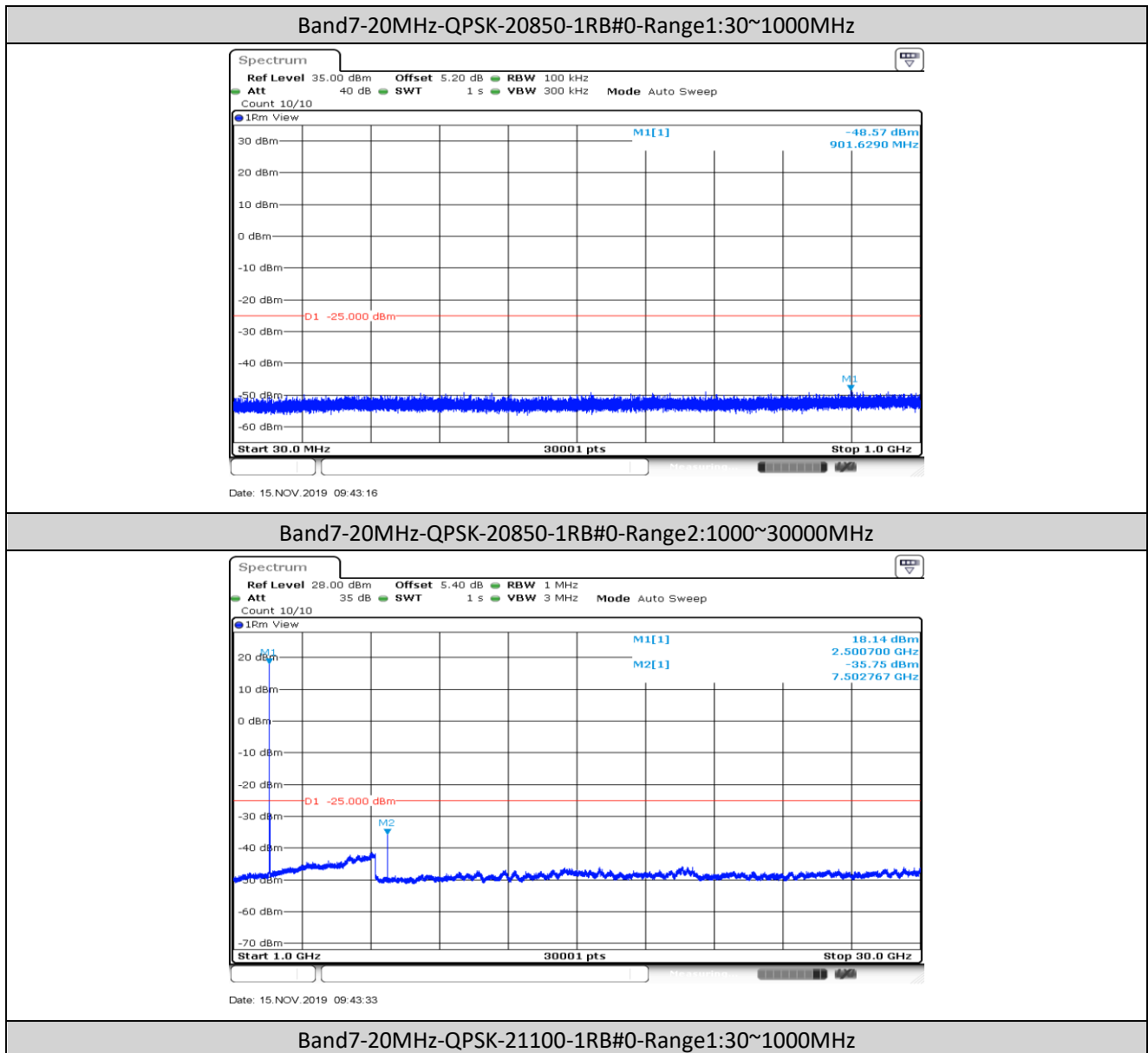
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6. Spurious Emission at Antenna Terminal

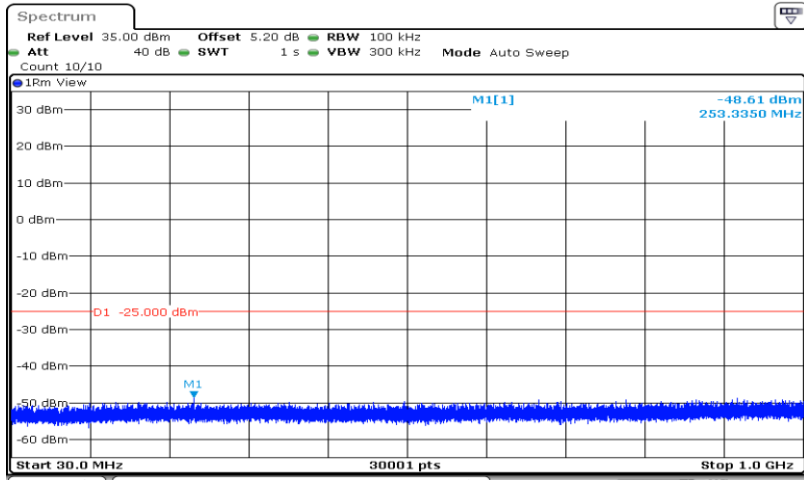
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

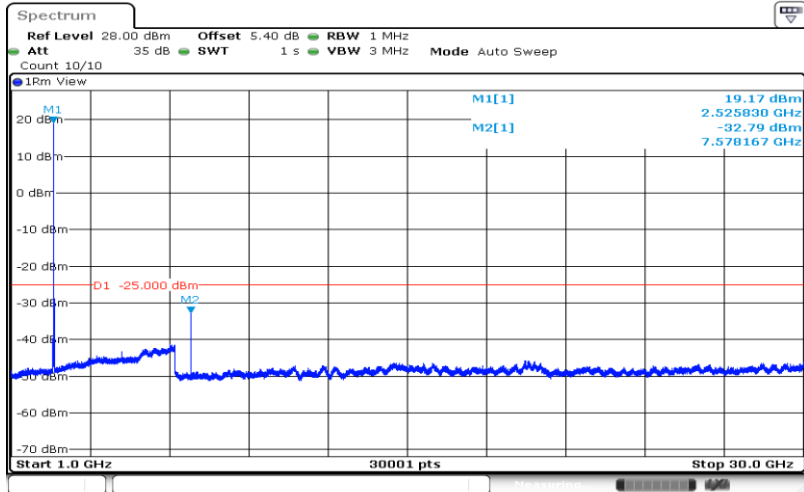


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Date: 15.NOV.2019 09:44:24

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

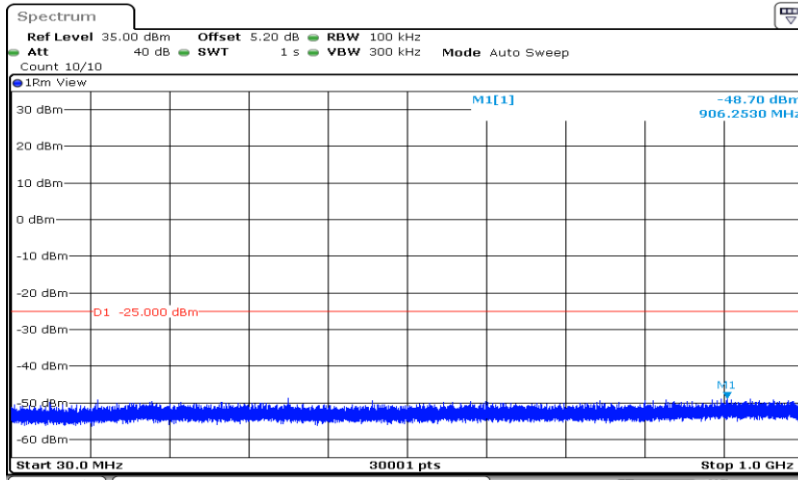


Date: 15.NOV.2019 09:44:41

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

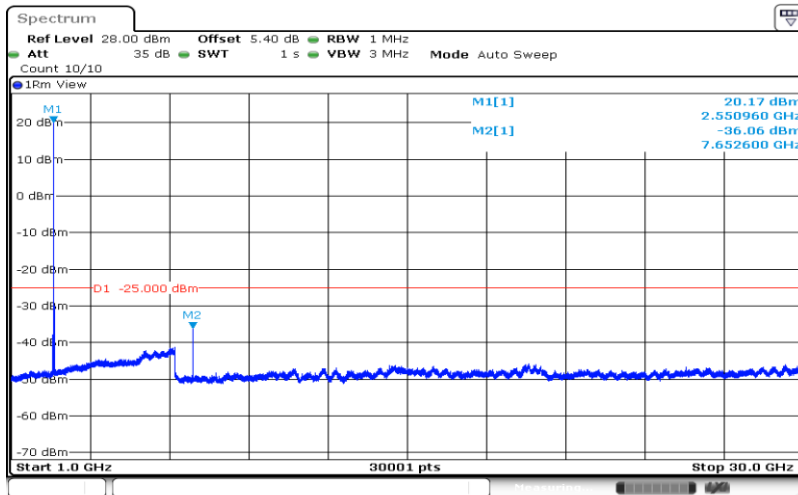


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Date: 15.NOV.2019 09:45:32

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

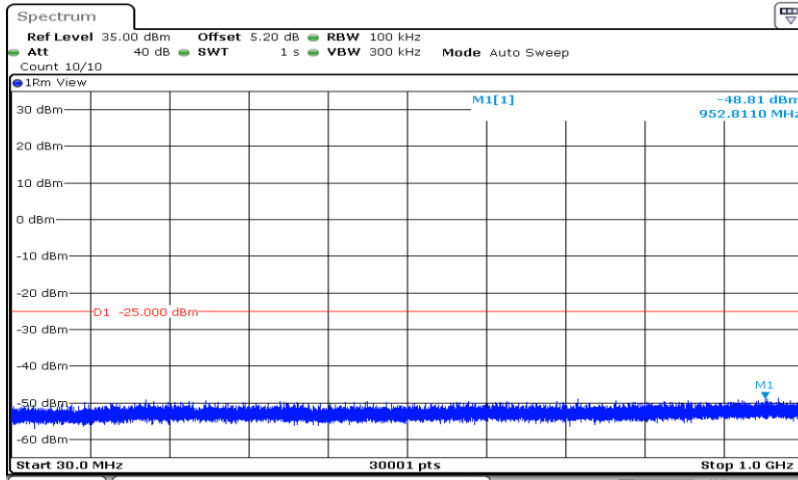


Date: 15.NOV.2019 09:45:49

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

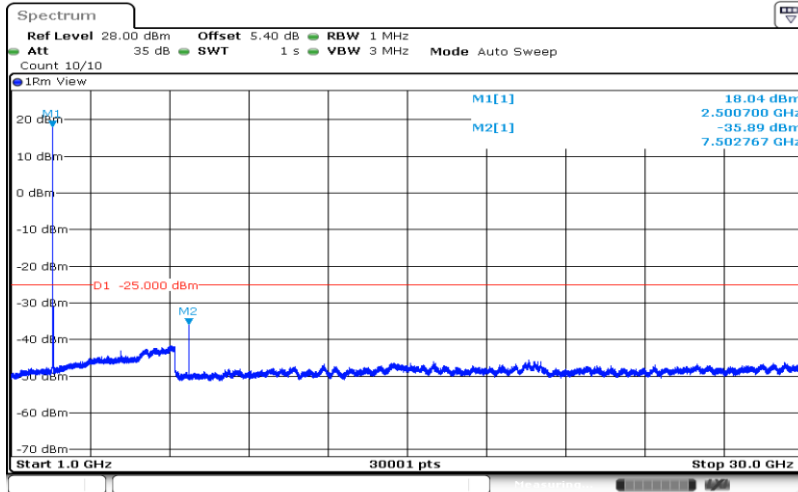


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Date: 15.NOV.2019 09:43:49

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

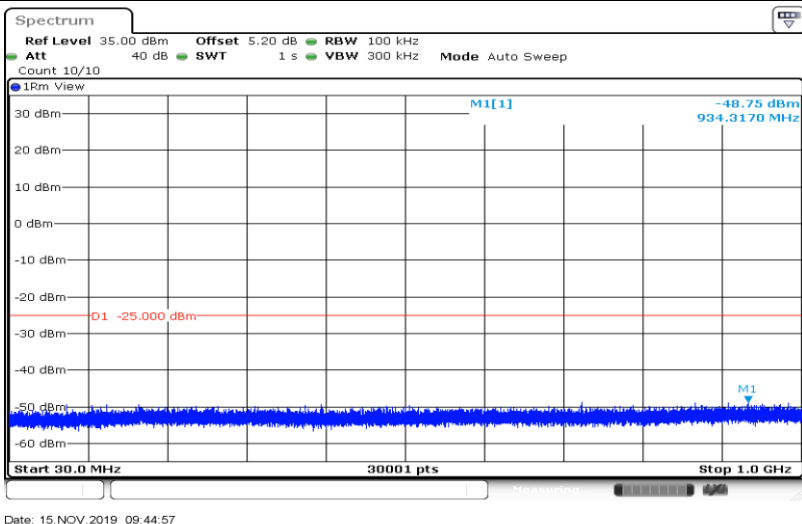


Date: 15.NOV.2019 09:44:06

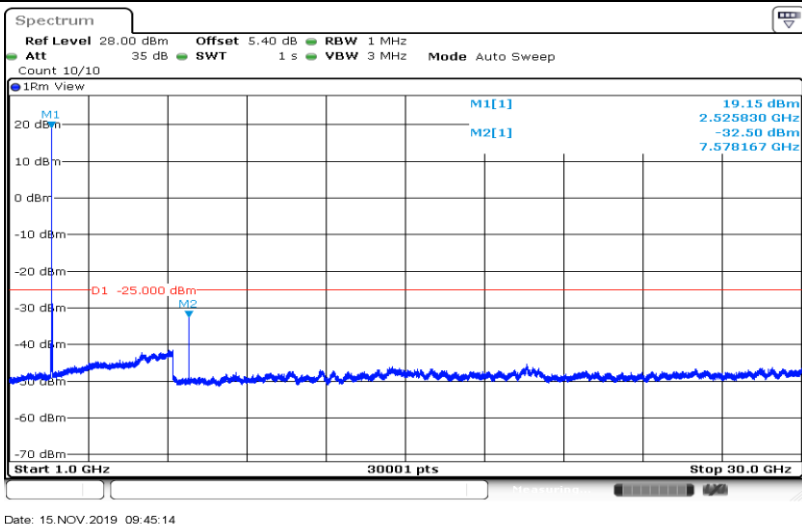
Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



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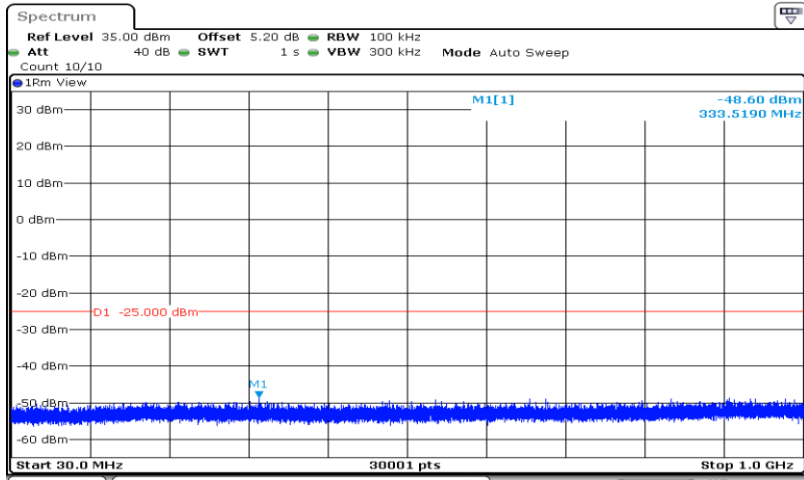
Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



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

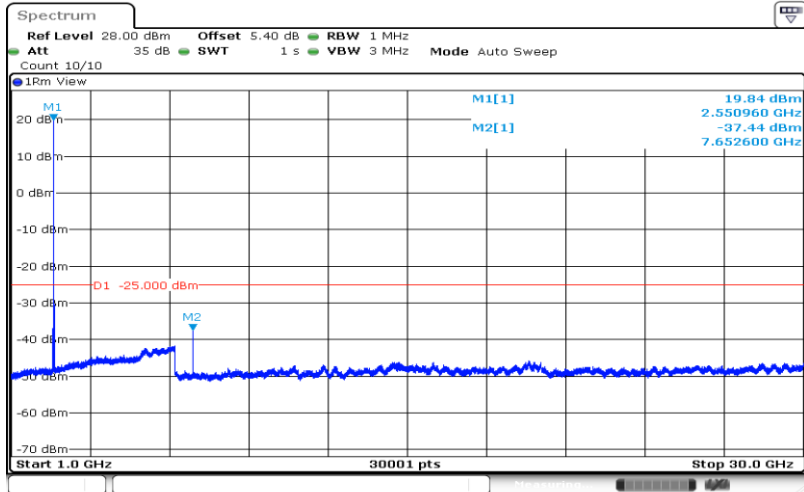


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Date: 15.NOV.2019 09:46:05

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



Date: 15.NOV.2019 09:46:22



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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)	Polarization
49.8375	-72.15	-25.00	47.15	Vertical
119.9235	-65.67	-25.00	40.67	Vertical
518.5649	-67.02	-25.00	42.02	Vertical
5052.0821	-53.16	-25.00	28.16	Vertical
7578.1831	-42.52	-25.00	17.52	Vertical
10104.2842	-39.71	-25.00	14.71	Vertical
42.6591	-64.62	-25.00	39.62	Horizontal
232.7886	-68.98	-25.00	43.98	Horizontal
498.4364	-67.78	-25.00	42.78	Horizontal
1588.1176	-45.98	-25.00	20.98	Horizontal
7578.1831	-49.27	-25.00	24.27	Horizontal
16397.9359	-40.10	-25.00	15.10	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
118.6624	-65.47	-25.00	40.47	Vertical
359.4770	-68.61	-25.00	43.61	Vertical
1411.2823	-48.86	-25.00	23.86	Vertical
5002.2801	-49.30	-25.00	24.30	Vertical
7503.1801	-37.63	-25.00	12.63	Vertical
10004.6802	-40.15	-25.00	15.15	Vertical
44.2597	-65.74	-25.00	40.74	Horizontal
234.5832	-68.91	-25.00	43.91	Horizontal
1799.3599	-44.28	-25.00	19.28	Horizontal
5002.2801	-56.81	-25.00	31.81	Horizontal
7503.1801	-42.85	-25.00	17.85	Horizontal
16394.3358	-40.80	-25.00	15.80	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.2669	-70.96	-25.00	45.96	Vertical
118.8079	-65.22	-25.00	40.22	Vertical
1567.7135	-46.36	-25.00	21.36	Vertical
5102.4841	-55.17	-25.00	30.17	Vertical
7653.1861	-44.37	-25.00	19.37	Vertical
10204.4882	-41.32	-25.00	16.32	Vertical
43.1442	-64.70	-25.00	39.70	Horizontal
250.2495	-68.54	-25.00	43.54	Horizontal
1587.3175	-45.91	-25.00	20.91	Horizontal
5101.8841	-57.44	-25.00	32.44	Horizontal
7653.1861	-49.57	-25.00	24.57	Horizontal
16384.1354	-40.71	-25.00	15.71	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	-19.47	-0.007757	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-21.20	-0.008446	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-21.50	-0.008566	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-23.63	-0.009321	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-22.86	-0.009018	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	16.78	0.006619	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-13.92	-0.005438	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-20.34	-0.007945	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-13.69	-0.005348	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-20.10	-0.008008	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-16.79	-0.006689	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-18.25	-0.007271	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-19.23	-0.007586	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-18.87	-0.007444	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-20.01	-0.007893	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-20.37	-0.007957	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-18.30	-0.007148	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-18.35	-0.007168	±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	-18.93	-0.007542	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-15.52	-0.006183	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-17.90	-0.007131	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-17.48	-0.006964	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-17.45	-0.006952	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-22.92	-0.009131	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-16.67	-0.006641	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-17.90	-0.007131	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-18.78	-0.007408	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-18.00	-0.007101	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	18.91	0.007460	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-15.94	-0.006288	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-11.06	-0.004363	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-16.84	-0.006643	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-20.11	-0.007933	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-20.77	-0.008193	±2.5	PASS



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Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-20.60	-0.008047	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-16.97	-0.006629	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-944.88	-0.369094	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-24.29	-0.009488	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-21.49	-0.008395	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-23.62	-0.009227	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-22.67	-0.008855	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-18.11	-0.007074	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-14.59	-0.005813	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	-15.92	-0.006343	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-15.22	-0.006064	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	16.55	0.006594	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-10.57	-0.004211	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	-19.14	-0.007625	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	-17.18	-0.006845	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-21.59	-0.008602	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-16.22	-0.006398	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	15.69	0.006189	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-13.78	-0.005436	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-13.50	-0.005325	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-17.52	-0.006911	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-17.52	-0.006911	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-20.13	-0.007941	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-13.73	-0.005416	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-19.13	-0.007473	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-27.07	-0.010574	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-26.98	-0.010539	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-23.49	-0.009176	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-27.34	-0.010680	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-23.55	-0.009199	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	-21.80	-0.008516	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-26.56	-0.010375	±2.5	PASS



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