



Appendix B

E-UTRA Band 7



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMA) Testing Laboratory

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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.22	27.22	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.23	27.23	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.12	27.12	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.29	26.29	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.32	26.32	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.22	26.22	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.36	26.36	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.2	27.20	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.04	27.04	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.05	27.05	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.21	26.21	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.15	26.15	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.07	26.07	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.18	26.18	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.17	27.17	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.1	27.10	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.72	26.72	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.53	26.53	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.25	26.25	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.94	25.94	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.24	26.24	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.52	26.52	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.3	26.30	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.55	26.55	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.41	25.41	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.34	25.34	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.3	25.30	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.34	25.34	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.37	26.37	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.25	26.25	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.18	26.18	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.22	25.22	33.00	PASS



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Band7	5MHz	16QAM	21100	12RB#6	21.21	25.21	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.17	25.17	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.12	25.12	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.54	26.54	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.42	26.42	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.39	26.39	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.29	25.29	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.2	25.20	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.25	25.25	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.23	25.23	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.38	27.38	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	24.24	28.24	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.77	26.77	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.41	26.41	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.29	26.29	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.24	26.24	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.27	26.27	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.33	27.33	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.33	27.33	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.78	26.78	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.31	26.31	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.1	26.10	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.07	26.07	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.11	26.11	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.32	27.32	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.35	27.35	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	21.99	25.99	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.55	26.55	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.14	26.14	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.05	26.05	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.22	26.22	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.71	26.71	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.43	26.43	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.49	26.49	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.25	25.25	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.26	25.26	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.23	25.23	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.32	25.32	33.00	PASS



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Band7	10MHz	16QAM	21100	1RB#0	22.6	26.60	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.3	26.30	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.4	26.40	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.18	25.18	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.15	25.15	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.95	24.95	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.12	25.12	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.62	26.62	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.3	26.30	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.52	26.52	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.23	25.23	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.18	25.18	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.24	25.24	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.15	25.15	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.29	27.29	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.22	27.22	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.28	27.28	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.53	26.53	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.38	26.38	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.28	26.28	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.43	26.43	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.16	27.16	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.06	27.06	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.99	26.99	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	22.3	26.30	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.36	26.36	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.22	26.22	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.26	26.26	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.17	27.17	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.1	27.10	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.09	26.09	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.45	26.45	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.28	26.28	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	22.19	26.19	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.27	26.27	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.62	26.62	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.44	26.44	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.35	26.35	33.00	PASS



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Band7	15MHz	16QAM	20825	36RB#0	21.52	25.52	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.39	25.39	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.36	25.36	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.37	25.37	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.42	26.42	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.43	26.43	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.42	26.42	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.21	25.21	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	21.26	25.26	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	21.18	25.18	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.27	25.27	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.54	26.54	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.45	26.45	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.41	26.41	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	21.33	25.33	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	21.25	25.25	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	21.19	25.19	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.28	25.28	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.38	27.38	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.16	27.16	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.22	27.22	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.43	26.43	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.37	26.37	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.28	26.28	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.31	26.31	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.17	27.17	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.94	26.94	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.81	26.81	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.26	26.26	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.29	26.29	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.23	26.23	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.28	26.28	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.31	27.31	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.14	27.14	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	21.99	25.99	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.45	26.45	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.18	26.18	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.84	25.84	33.00	PASS



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Band7	20MHz	QPSK	21350	100RB#0	22.35	26.35	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.67	26.67	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.53	26.53	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.52	26.52	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.37	25.37	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.38	25.38	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.35	25.35	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.45	25.45	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.4	26.40	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.35	26.35	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.39	26.39	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.19	25.19	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.16	25.16	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.17	25.17	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.23	25.23	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.46	26.46	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.28	26.28	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.32	26.32	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.24	25.24	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.24	25.24	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.15	25.15	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.26	25.26	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 [dBi]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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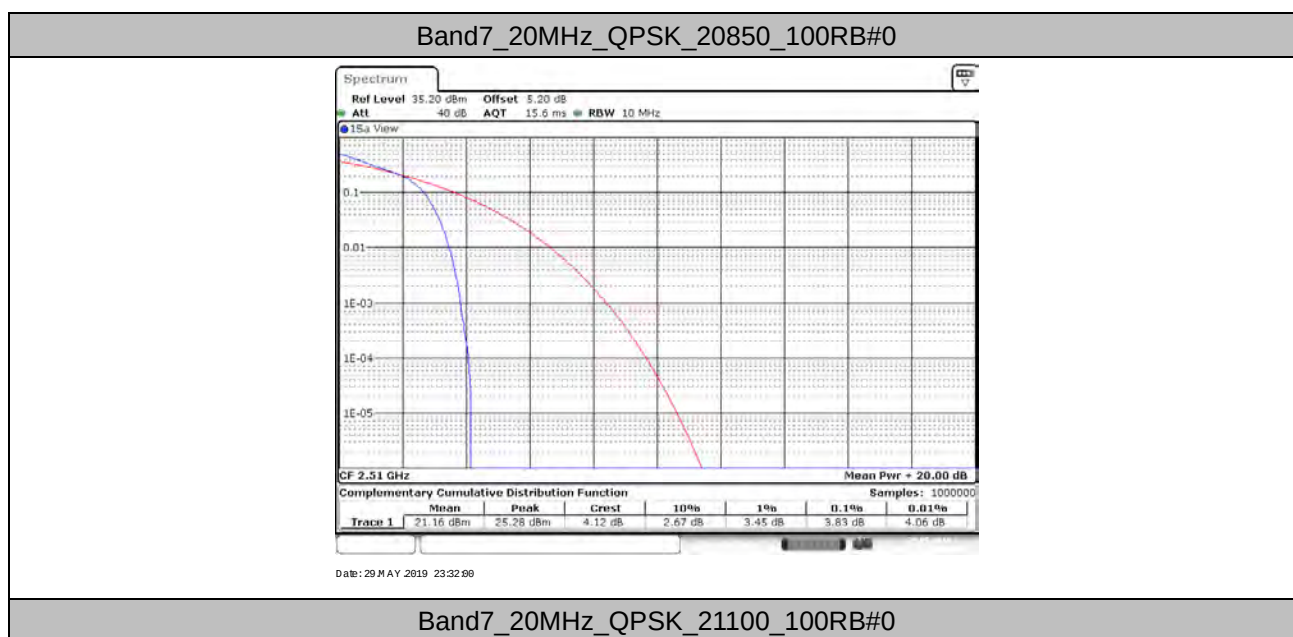


2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	3.83	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	3.91	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	3.91	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.62	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.65	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.68	13	PASS

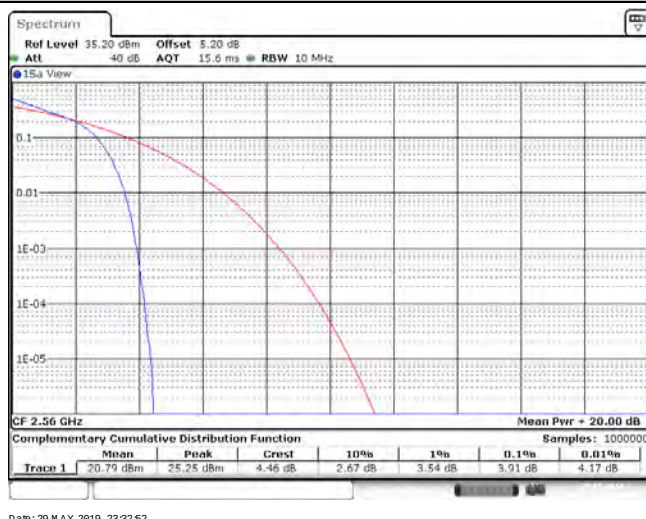
2.2. Test Plots





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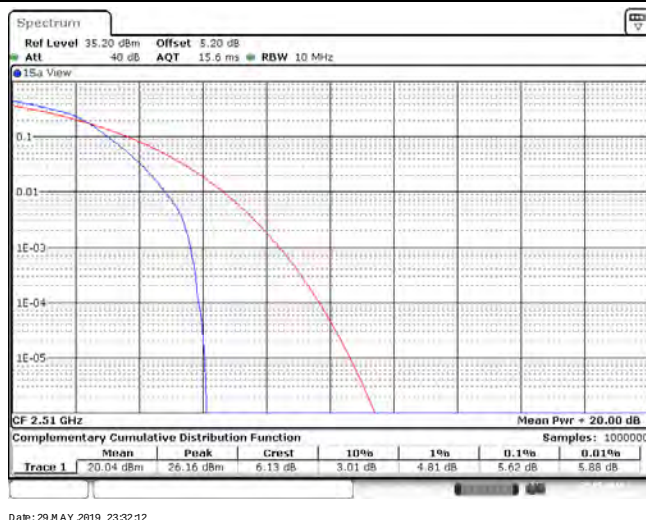
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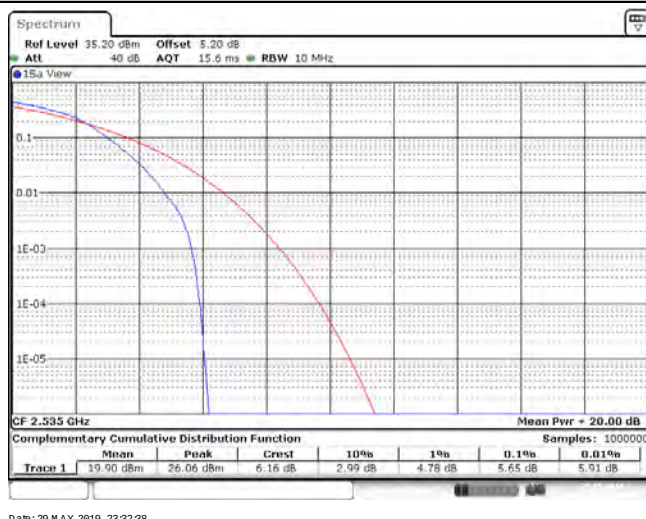
Band7_20MHz_16QAM_20850_100RB#0





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Band7_20MHz_16QAM_21100_100RB#0



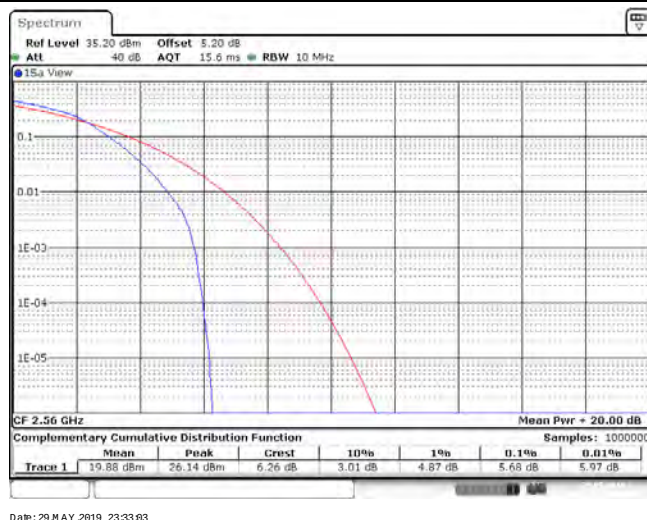
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Band7_20MHz_16QAM_21350_100RB#0



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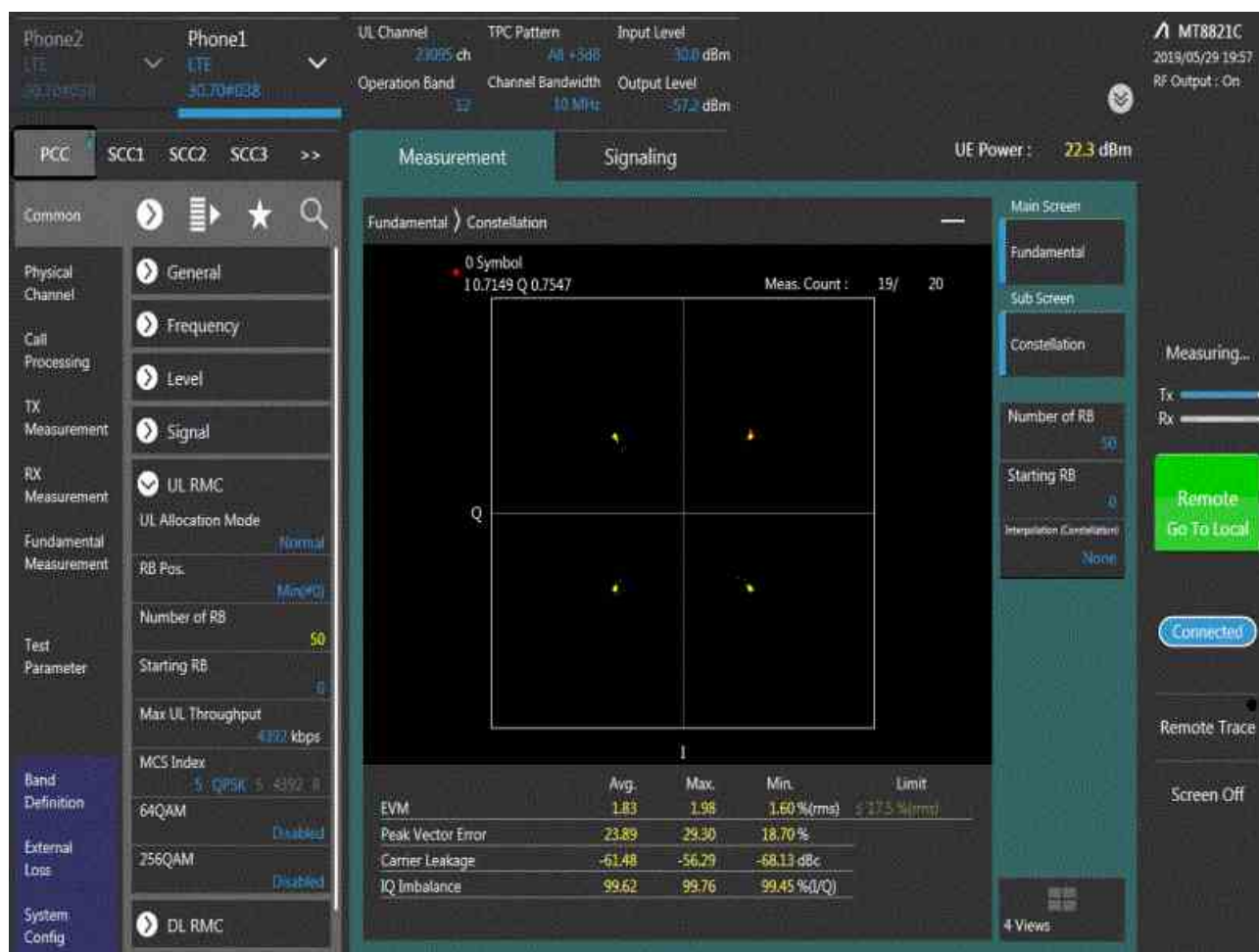
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3. Modulation Characteristics

3.1. Test BAND = LTE Band 7

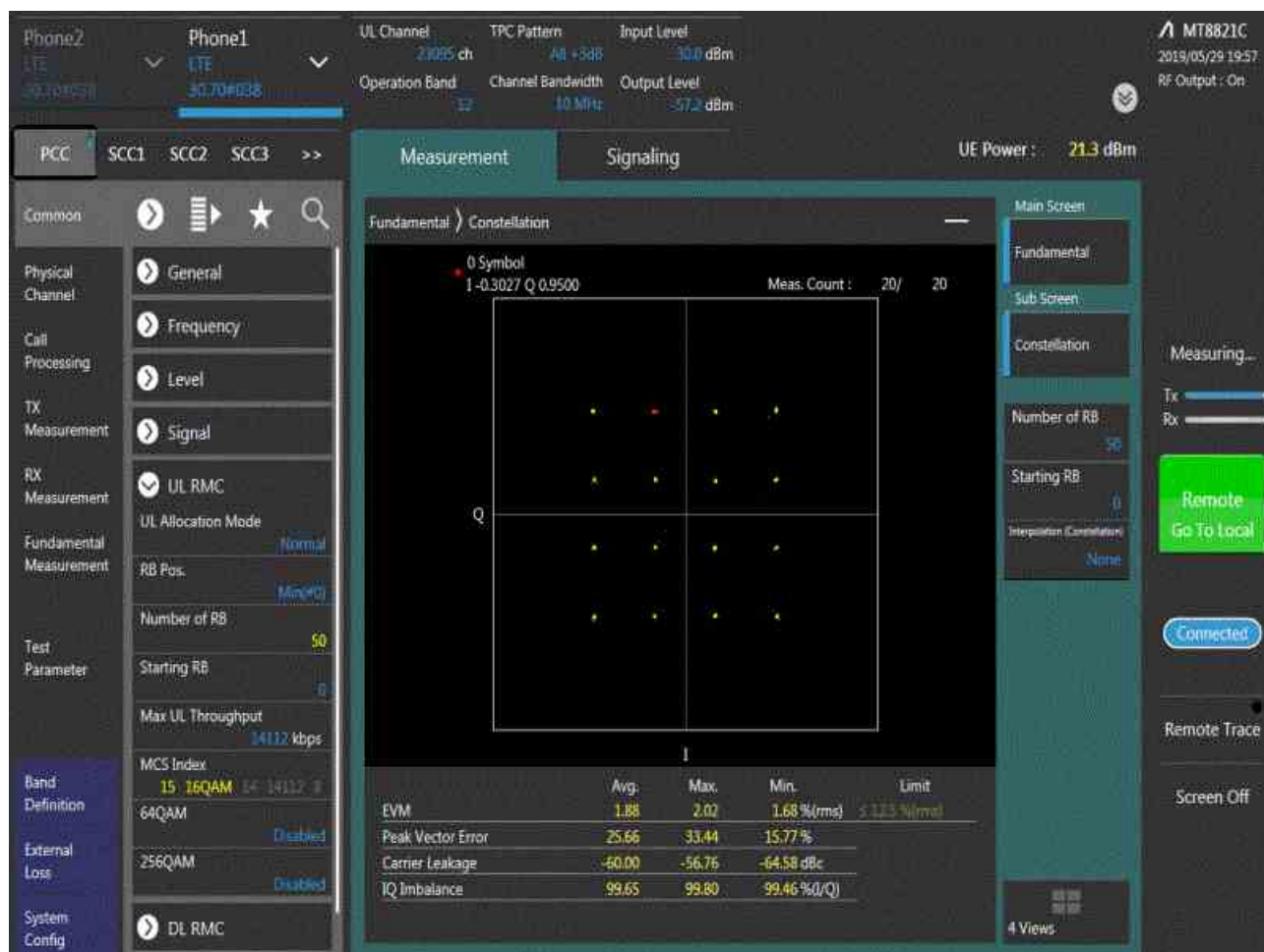
3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = MCH



3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

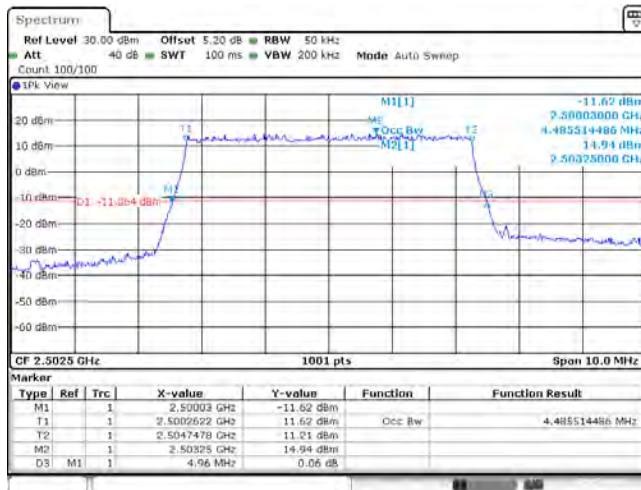
4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.486	4.960	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.466	4.930	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.930	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.476	4.870	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.476	4.960	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.476	4.950	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.780	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.740	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.931	9.760	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.911	9.720	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.951	9.700	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.931	9.640	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.850	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.427	14.730	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.457	14.880	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.880	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.487	14.820	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.457	14.760	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.902	19.400	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.942	19.360	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.902	19.560	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.862	19.240	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.902	19.440	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.902	19.440	PASS

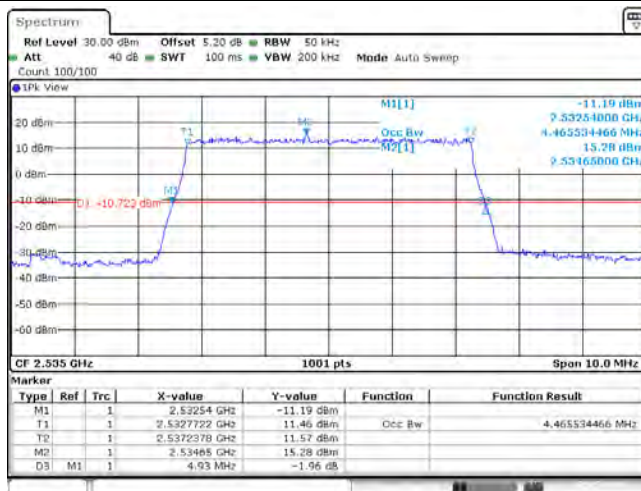


4.2. Test Plots

Band7_5MHz_QPSK_20775_25RB#0



Band7_5MHz_QPSK_21100_25RB#0

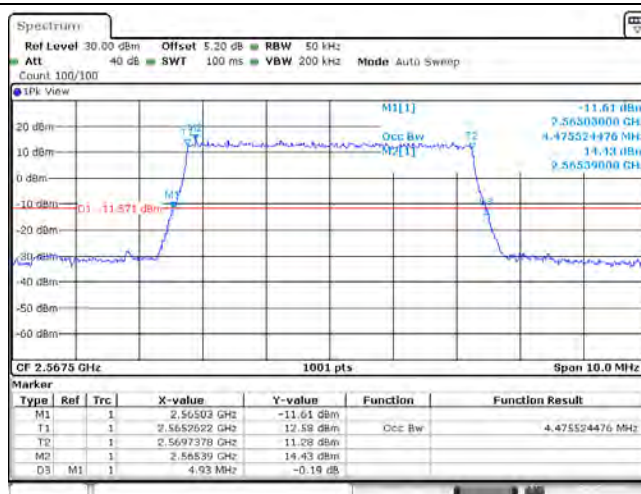


Band7_5MHz_QPSK_21425_25RB#0



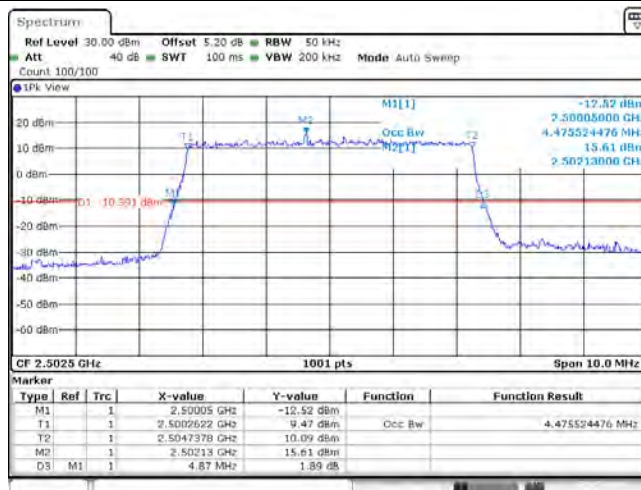
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Band7_5MHz_16QAM_20775_25RB#0



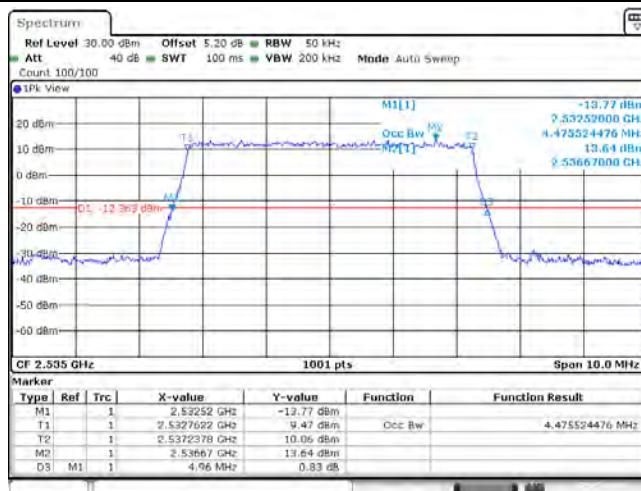
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Band7_5MHz_16QAM_21100_25RB#0



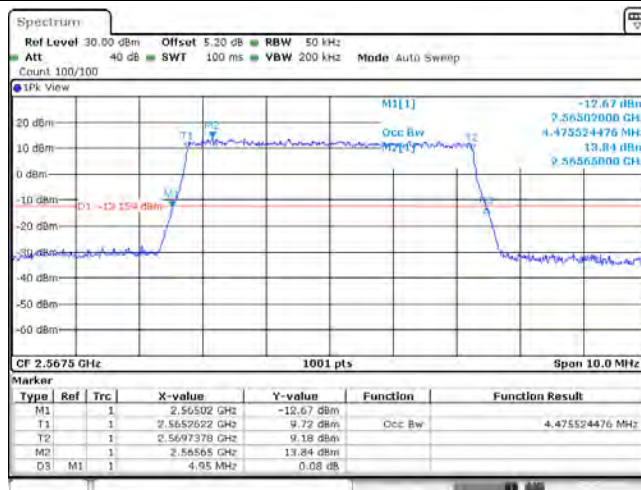
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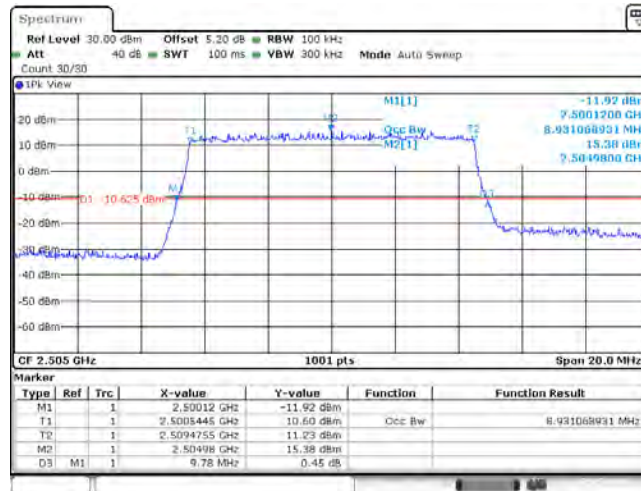
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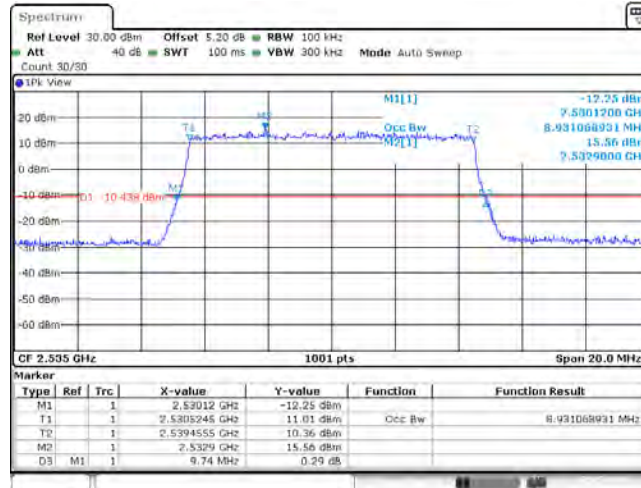
Band7_10MHz_QPSK_20800_50RB#0





Date: 29 MAY 2019 23:04:31

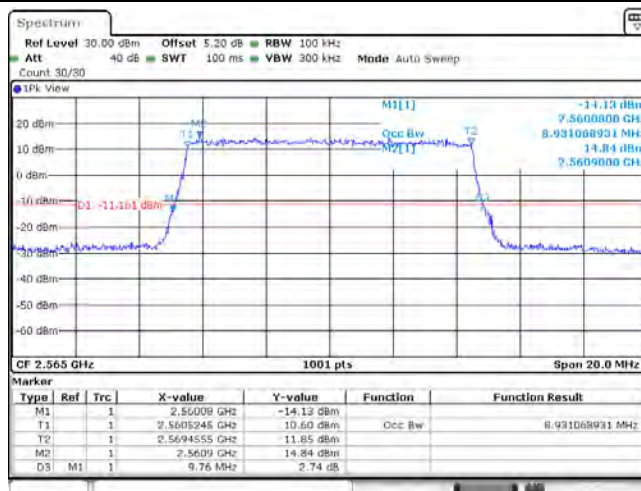
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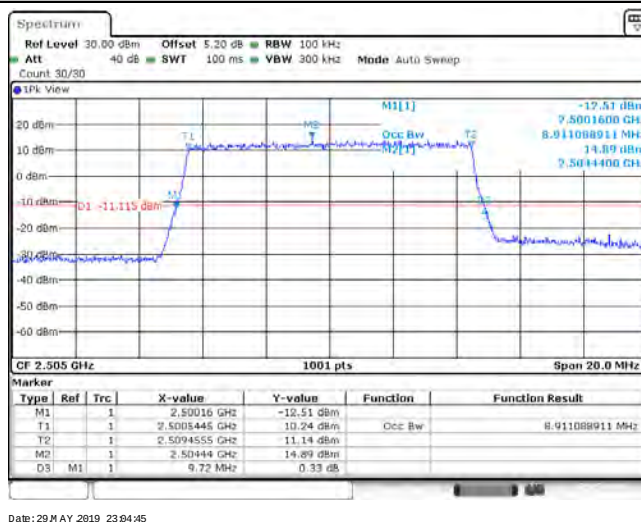
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Band7_10MHz_QPSK_21400_50RB#0





Band7_10MHz_16QAM_20800_50RB#0

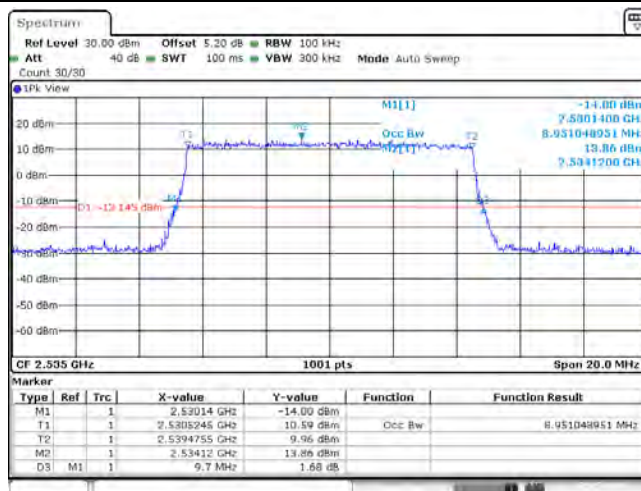


Band7_10MHz_16QAM_21100_50RB#0



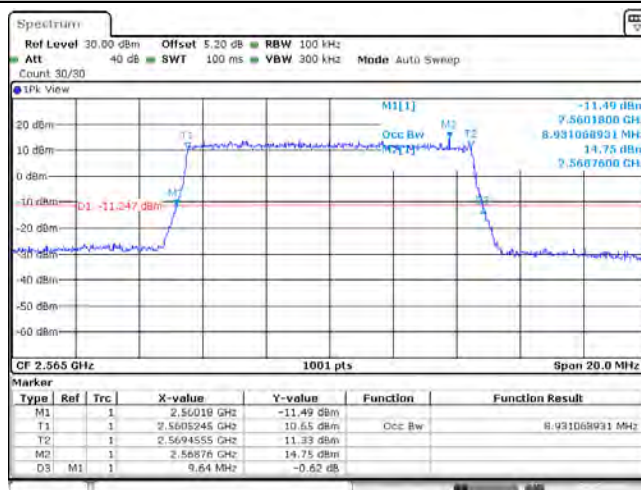
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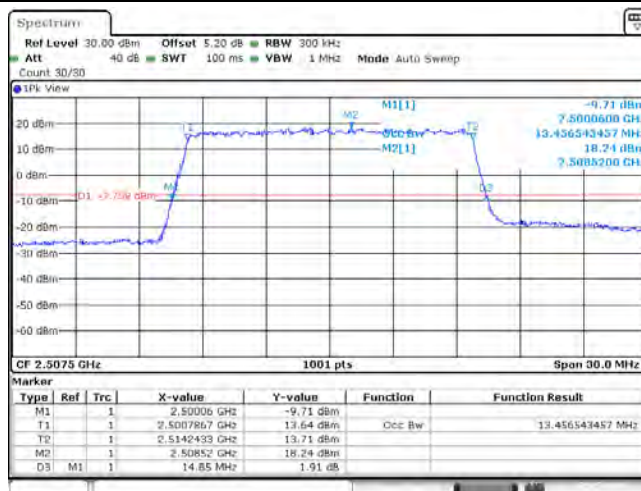
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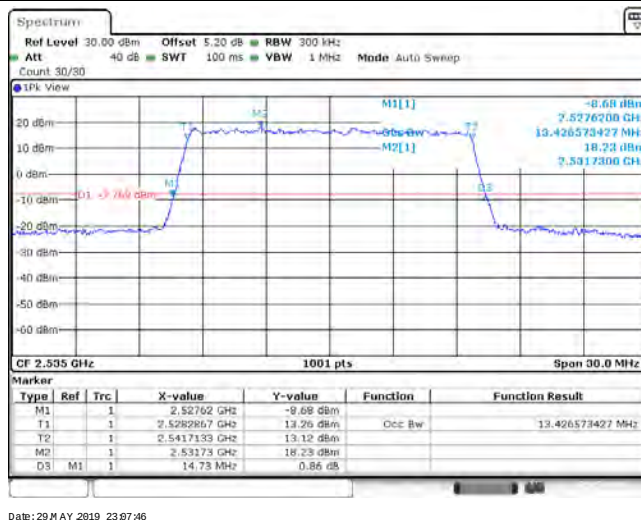


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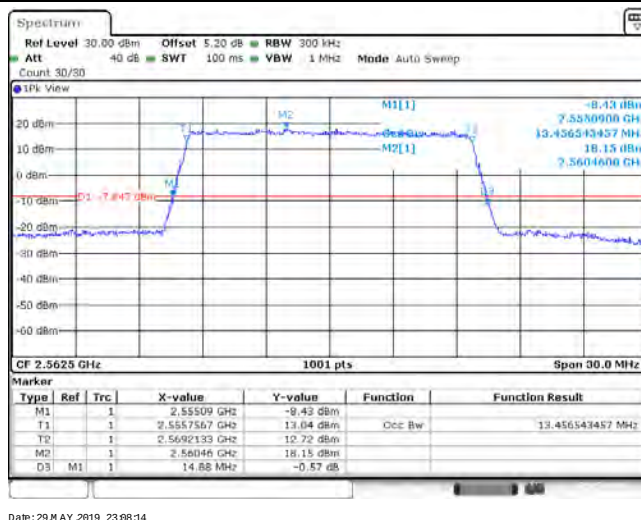
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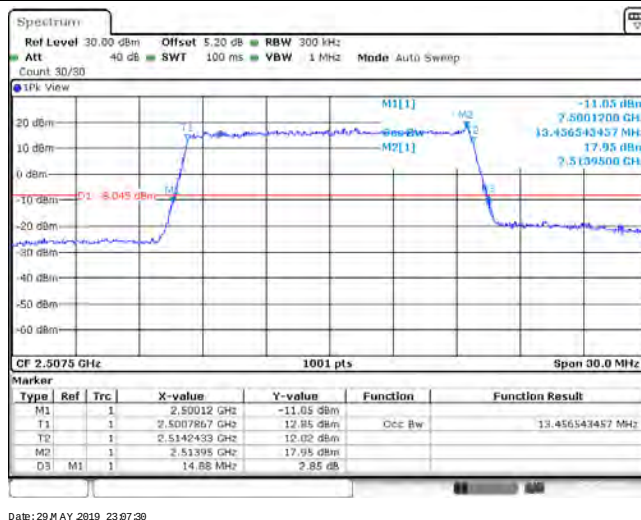
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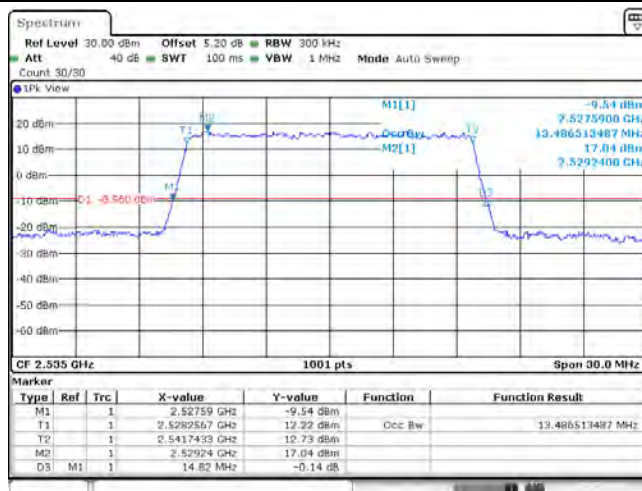
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Band7_15MHz_16QAM_20825_75RB#0

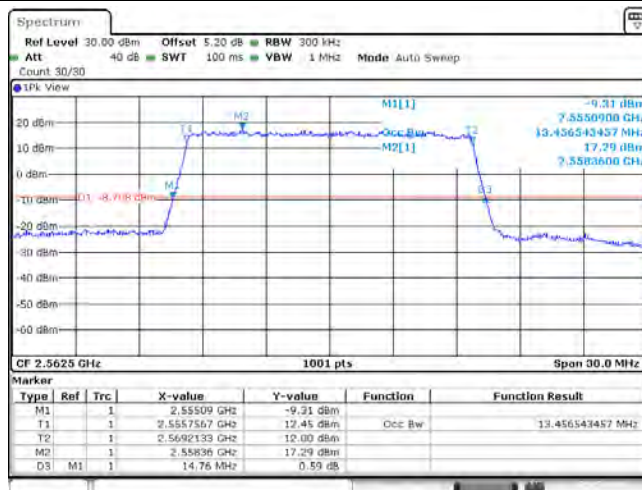


Band7_15MHz_16QAM_21100_75RB#0



Date: 29 MAY 2019 23:57:58

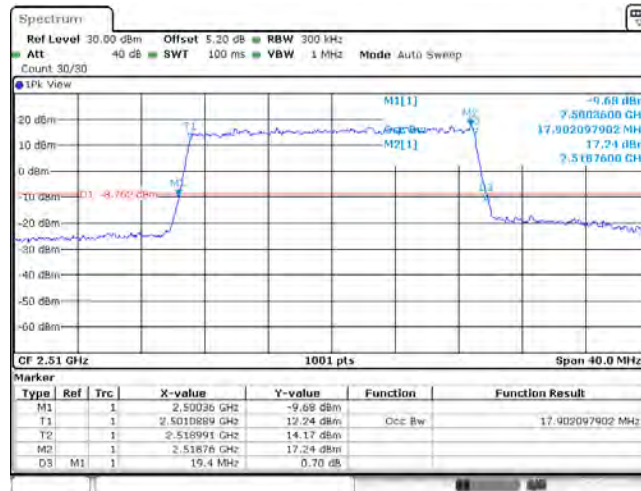
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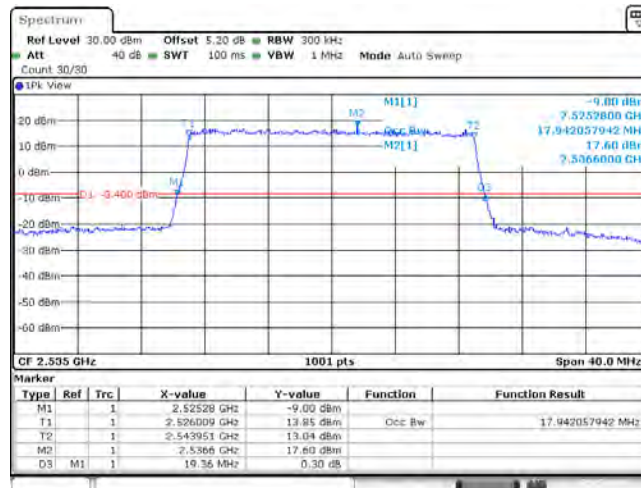
Band7_20MHz_QPSK_20850_100RB#0





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Band7_20MHz_QPSK_21100_100RB#0



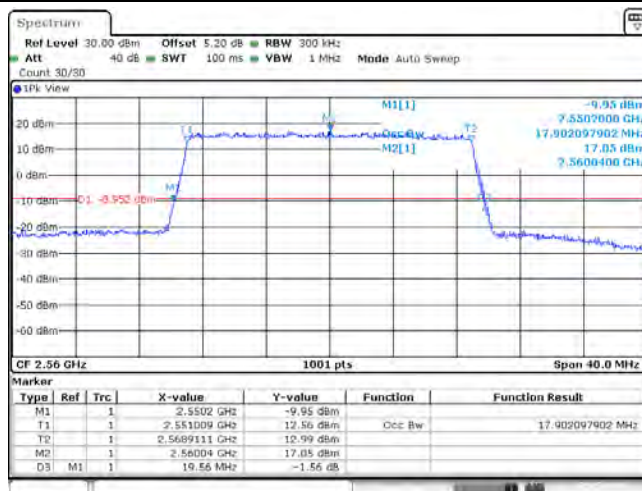
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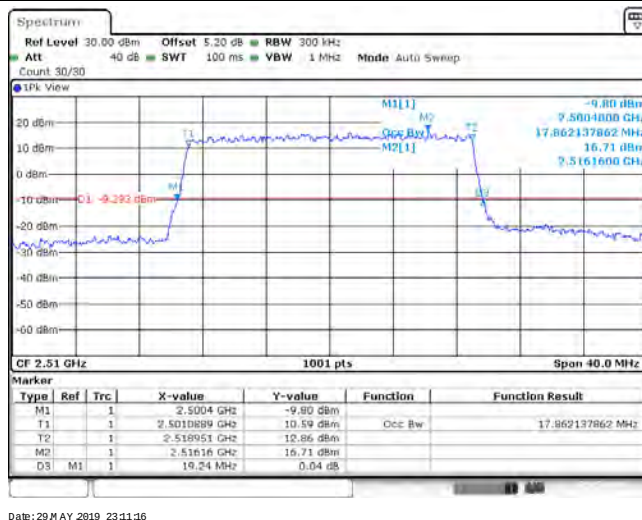


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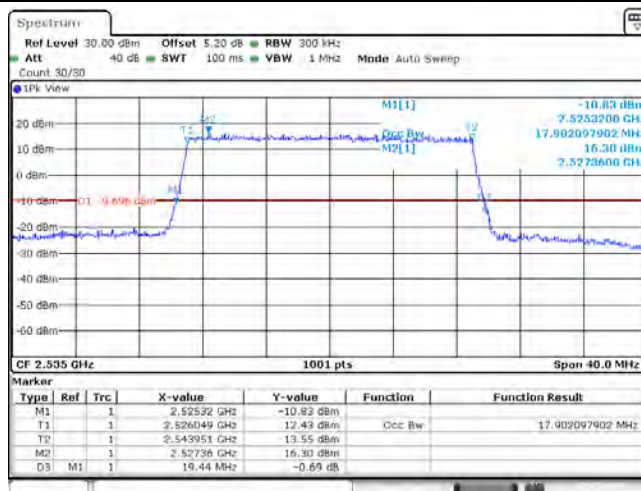


Band7_20MHz_16QAM_20850_100RB#0



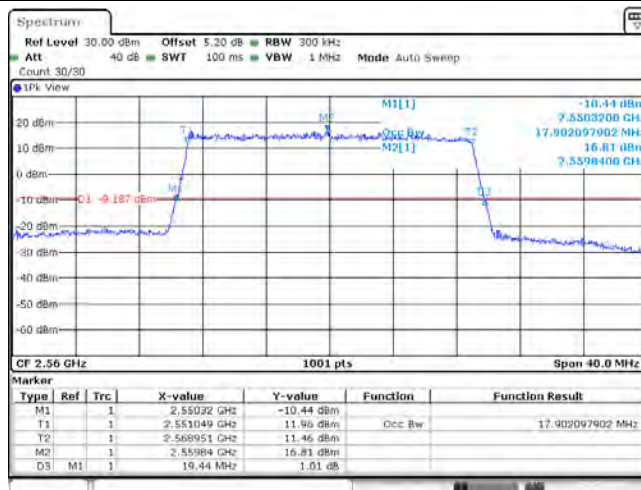
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Date: 29 MAY 2019 23:11:45

Band7_20MHz_16QAM_21350_100RB#0



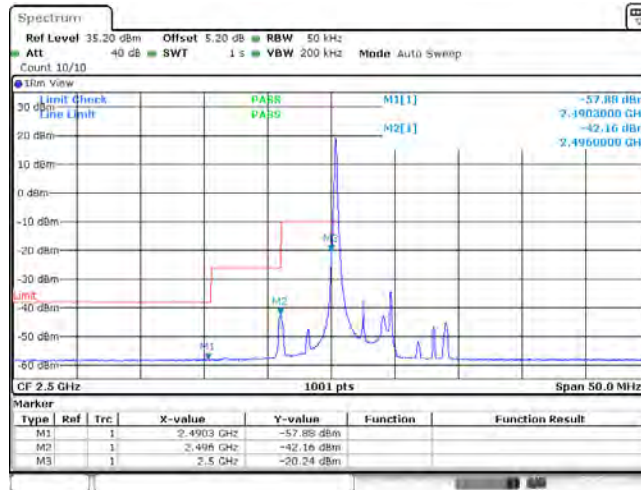
Date: 29 MAY 2019 23:12:14



5. Band Edge Compliance

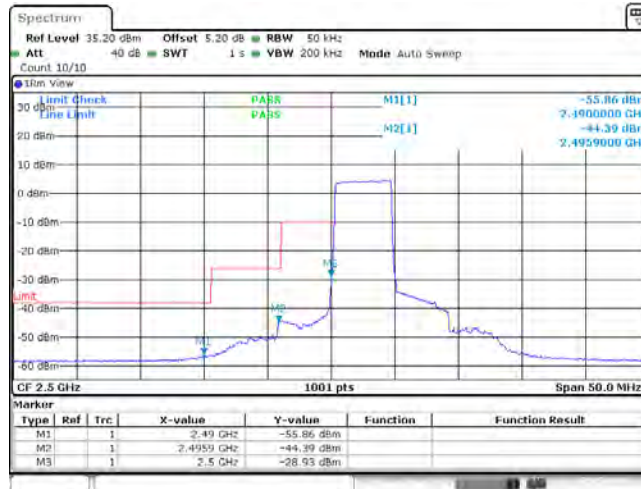
5.1. Test Plots

Band7_5MHz_QPSK_20775_1RB#0



Date: 29 MAY 2019 23:12:42

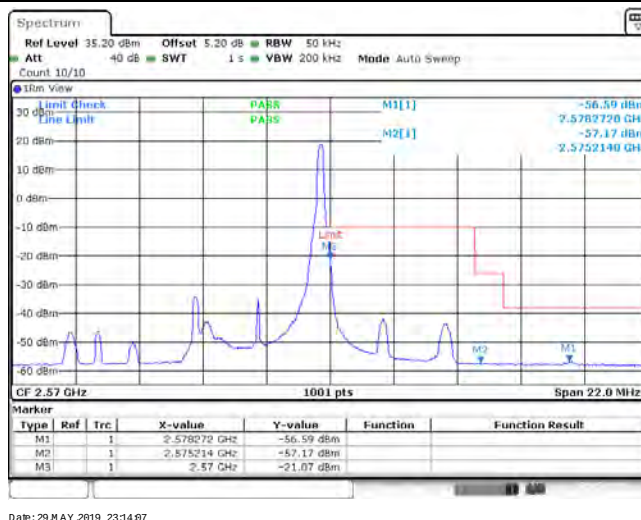
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Date: 29 MAY 2019 23:13:23

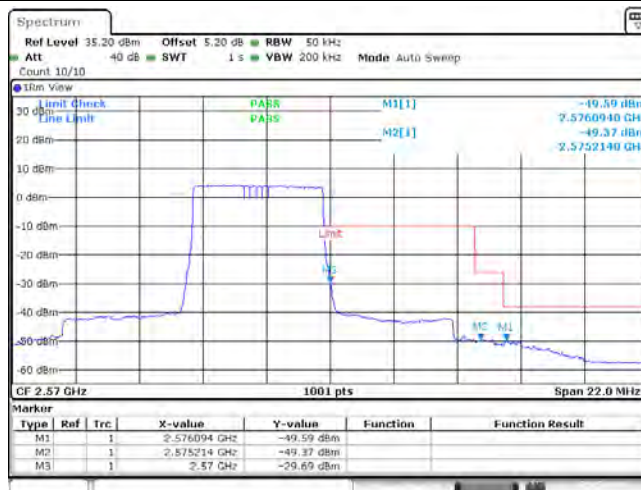
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Date: 29 MAY 2019 23:14:07

Band7_5MHz_QPSK_21425_25RB#0



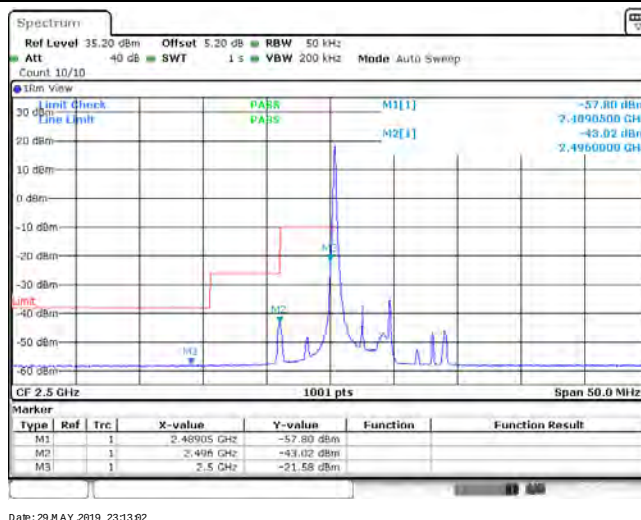
Date: 29 MAY 2019 23:14:48

Band7_5MHz_16QAM_20775_1RB#0



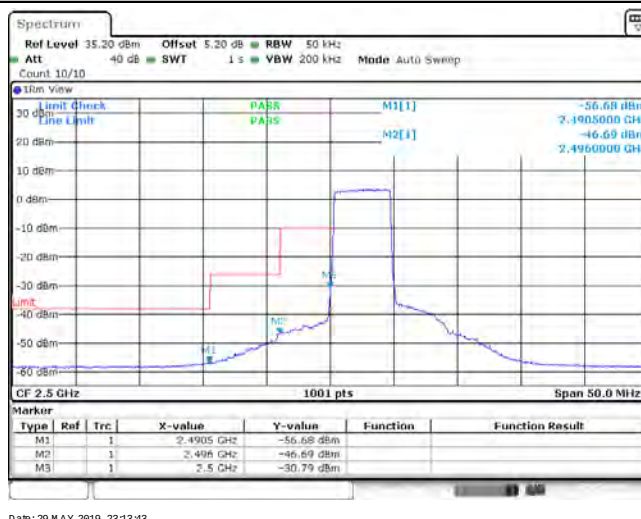
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Date: 29 MAY 2019 23:13:02

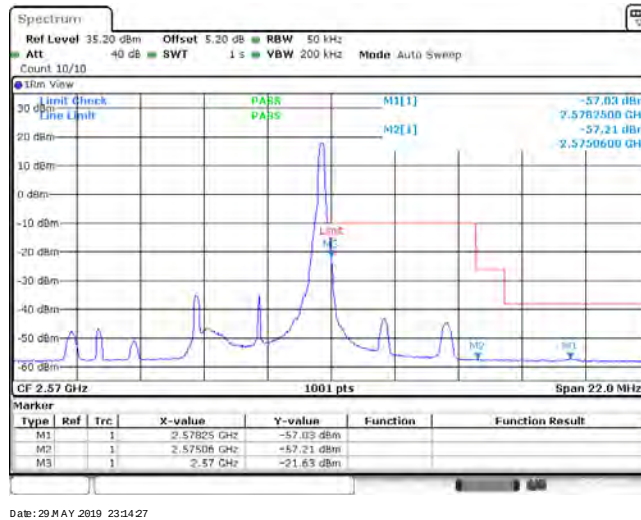
Band7_5MHz_16QAM_20775_25RB#0



Date: 29 MAY 2019 23:13:43

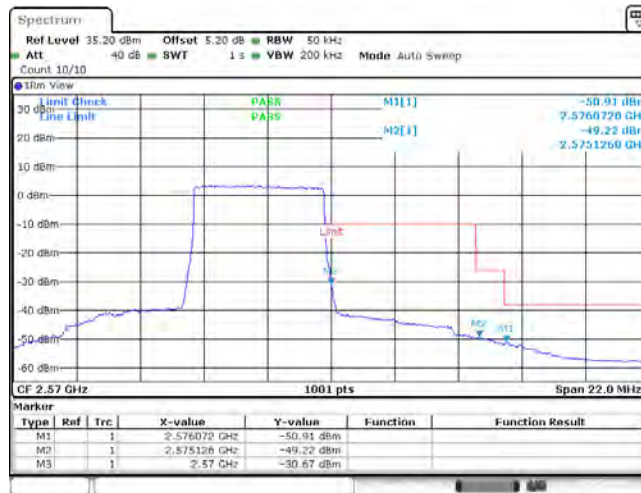
Band7_5MHz_16QAM_21425_1RB#24





Date: 29 MAY 2019 23:14:27

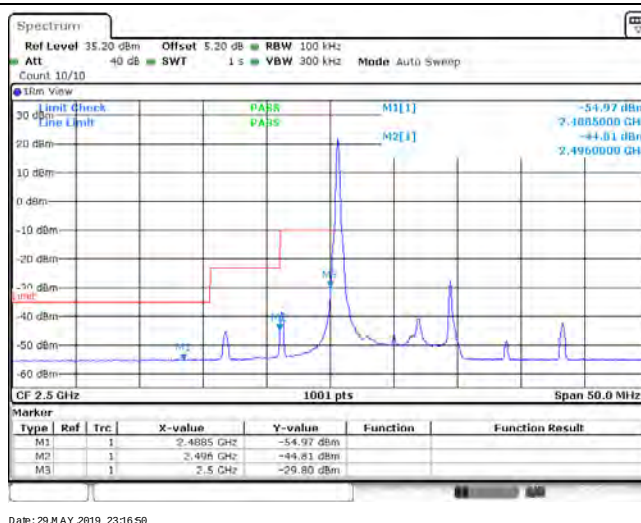
Band7_5MHz_16QAM_21425_25RB#0



Date: 29 MAY 2019 23:15:08

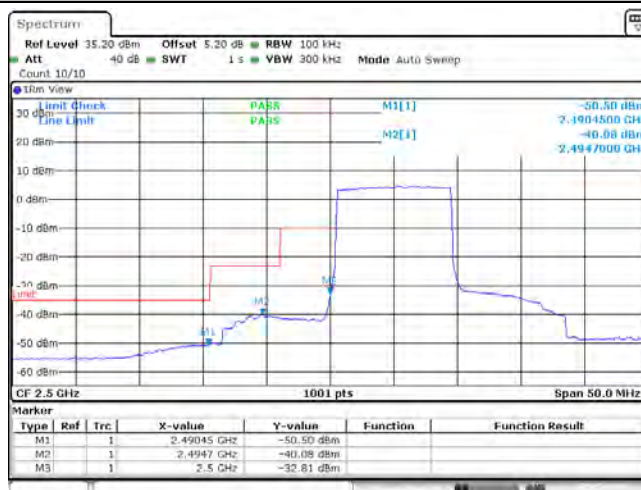
Band7_10MHz_QPSK_20800_1RB#0





Date: 29 MAY 2019 23:16:50

Band7_10MHz_QPSK_20800_50RB#0



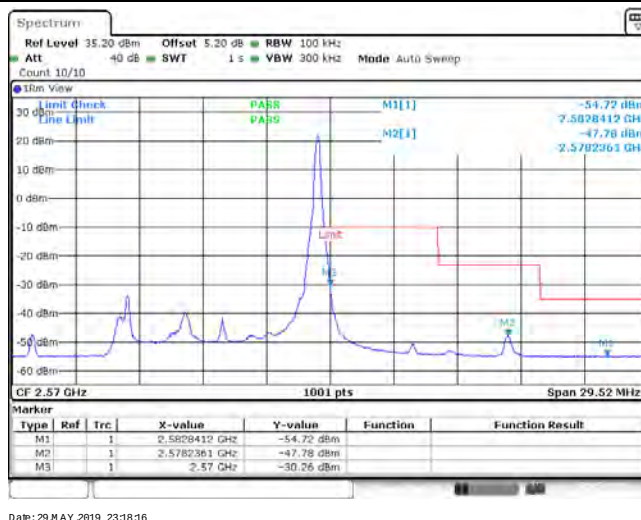
Date: 29 MAY 2019 23:17:31

Band7_10MHz_QPSK_21400_1RB#49



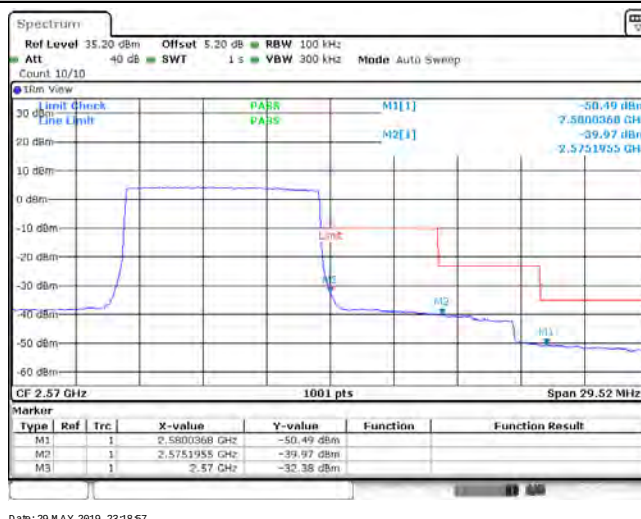
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Date: 29 MAY 2019 23:18:16

Band7_10MHz_QPSK_21400_50RB#0



Date: 29 MAY 2019 23:18:57

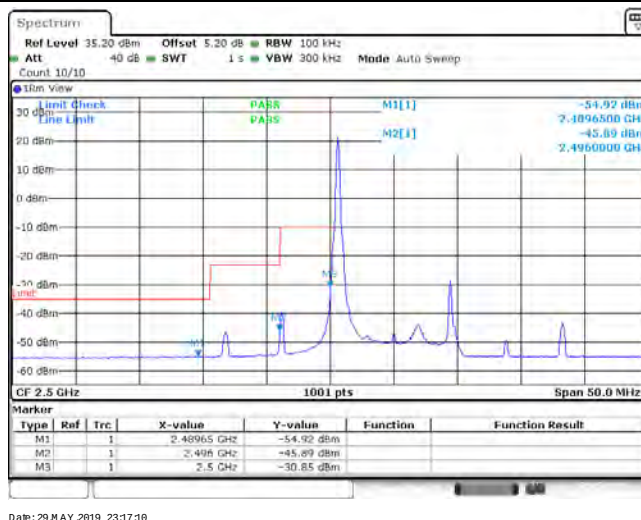
Band7_10MHz_16QAM_20800_1RB#0



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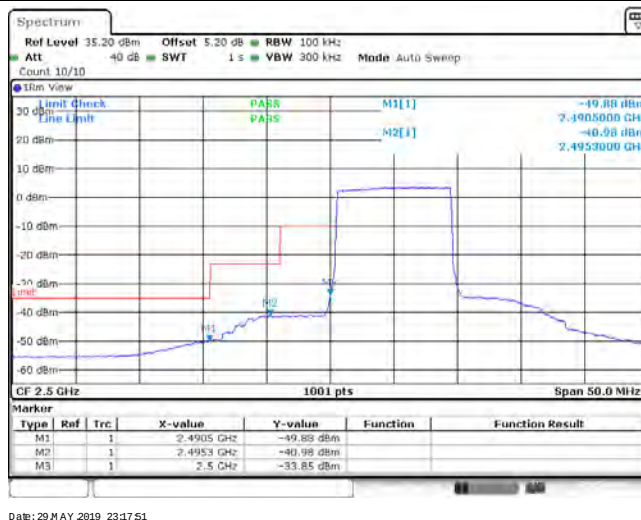
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Date: 29 MAY 2019 23:17:10

Band7_10MHz_16QAM_20800_50RB#0



Date: 29 MAY 2019 23:17:51

Band7_10MHz_16QAM_21400_1RB#49

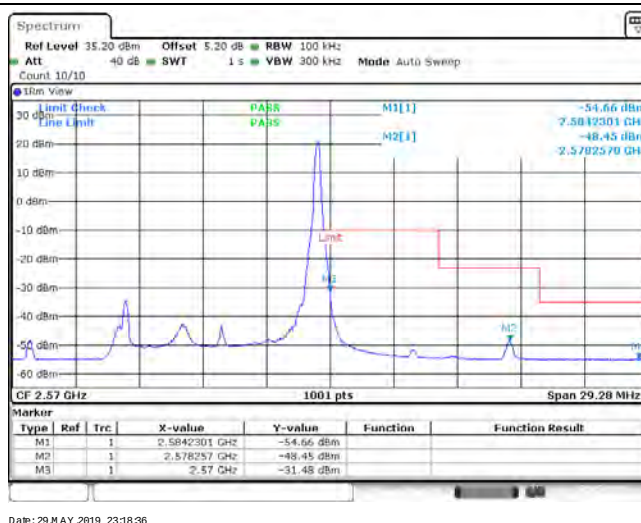


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Shenzhen Branch

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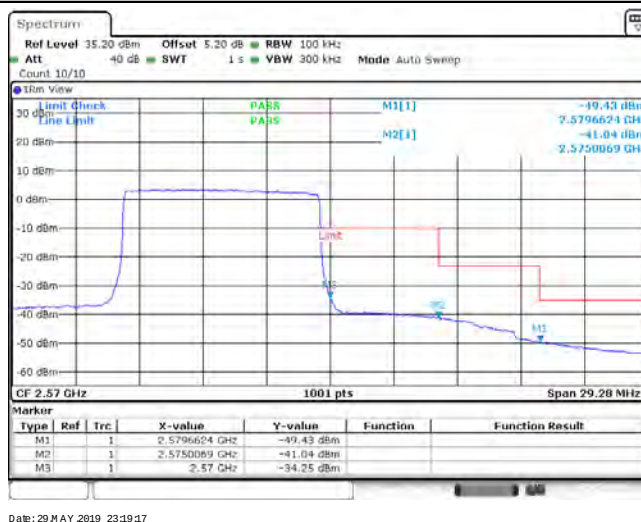
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Date: 29 MAY 2019 23:18:36

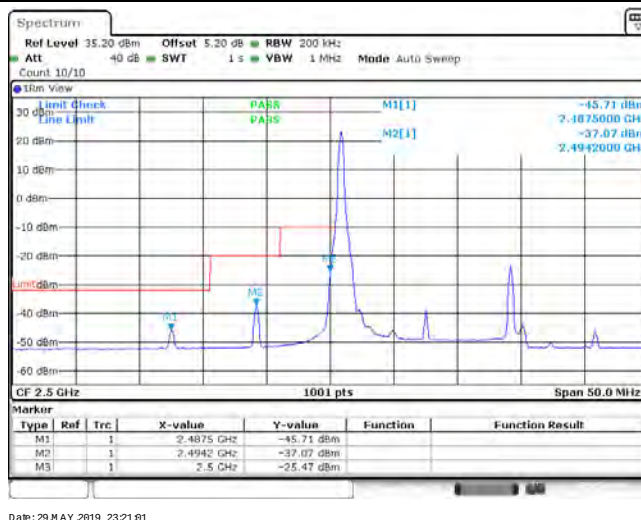
Band7_10MHz_16QAM_21400_50RB#0



Date: 29 MAY 2019 23:19:17

Band7_15MHz_QPSK_20825_1RB#0





Date: 29 MAY 2019 23:21:01

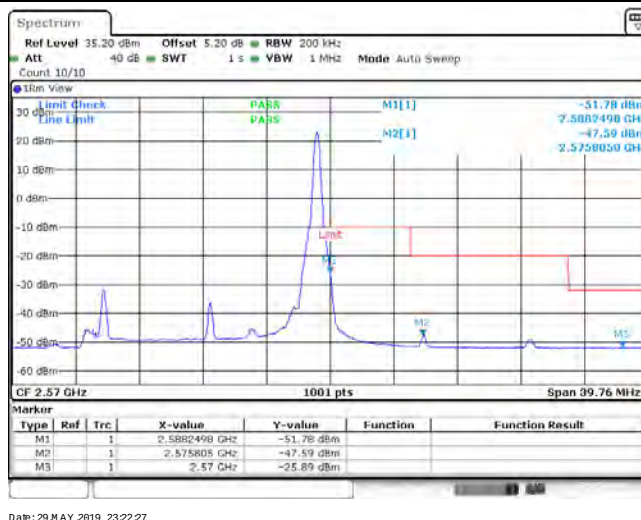
Band7_15MHz_QPSK_20825_75RB#0



Date: 29 MAY 2019 23:21:42

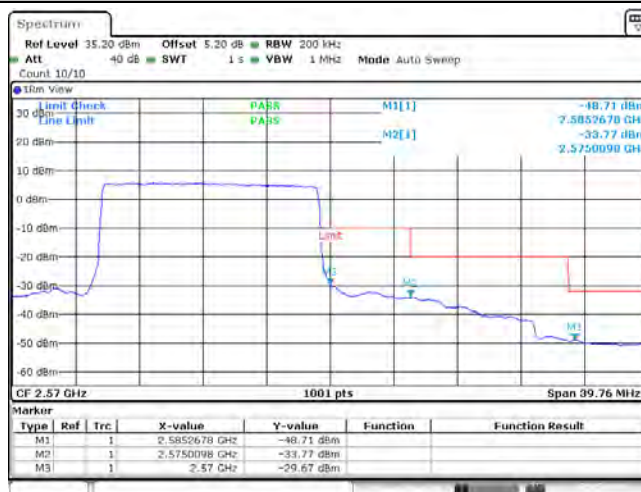
Band7_15MHz_QPSK_21375_1RB#74





Date: 29 MAY 2019 23:22:27

Band7_15MHz_QPSK_21375_75RB#0



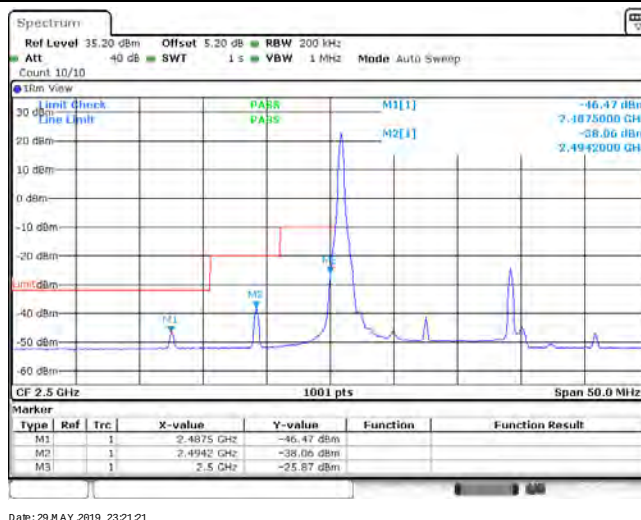
Date: 29 MAY 2019 23:23:99

Band7_15MHz_16QAM_20825_1RB#0



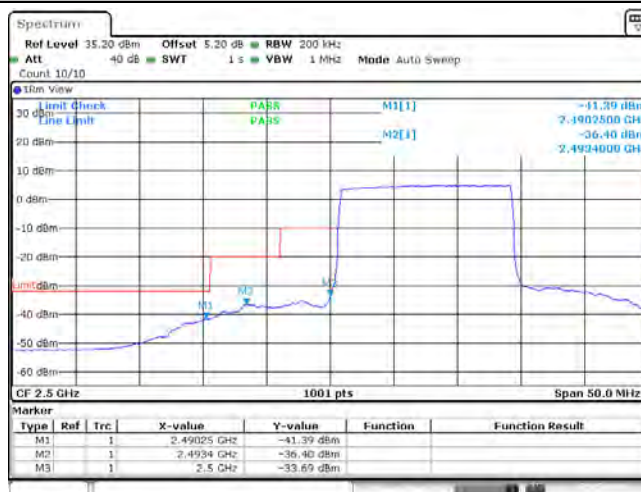
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Date: 29 MAY 2019 23:21:21

Band7_15MHz_16QAM_20825_75RB#0



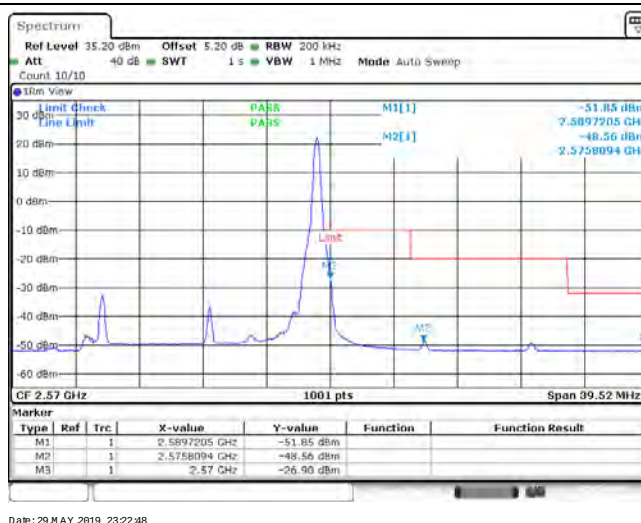
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Band7_15MHz_16QAM_21375_1RB#74



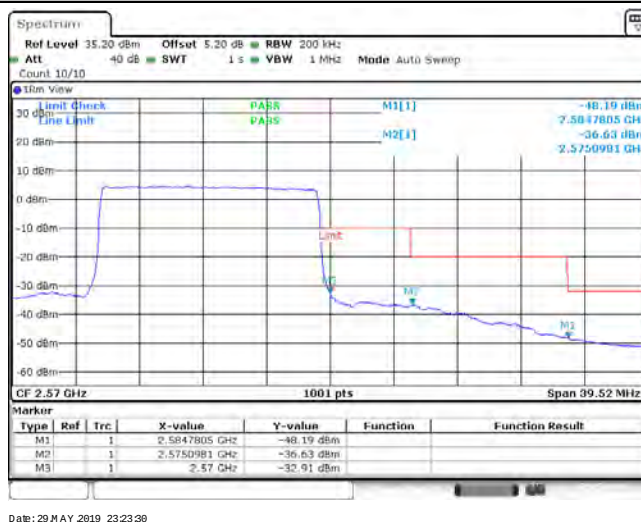
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Date: 29 MAY 2019 23:22:48

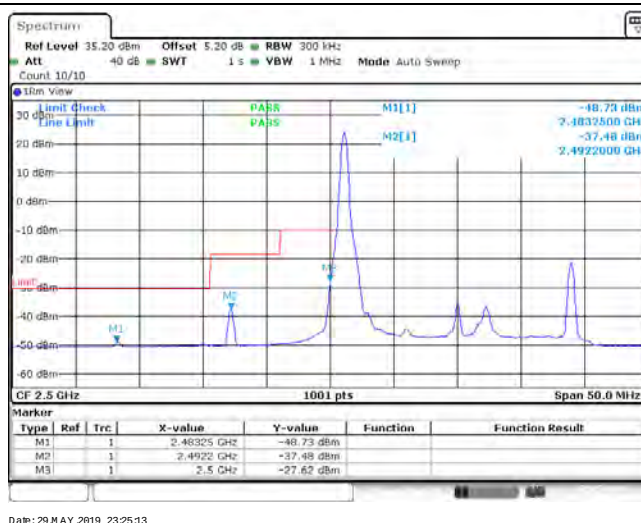
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Date: 29 MAY 2019 23:23:36

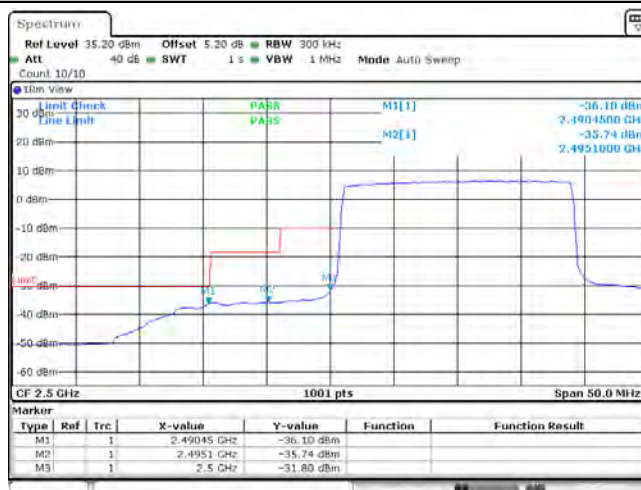
Band7_20MHz_QPSK_20850_1RB#0





Date: 29 MAY 2019 23:25:13

Band7_20MHz_QPSK_20850_100RB#0



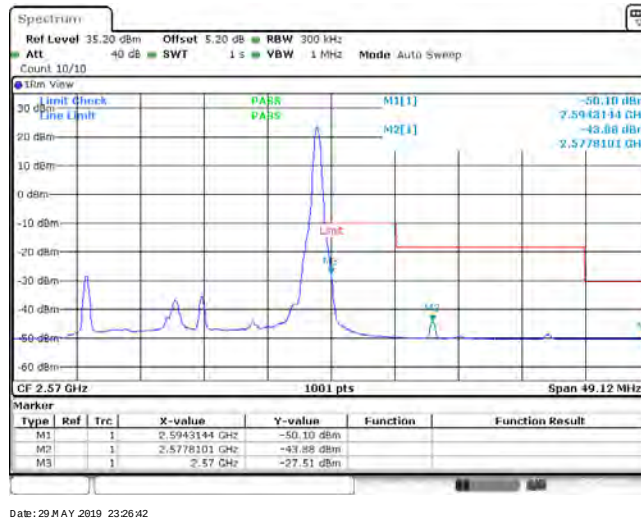
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Band7_20MHz_QPSK_21350_1RB#99



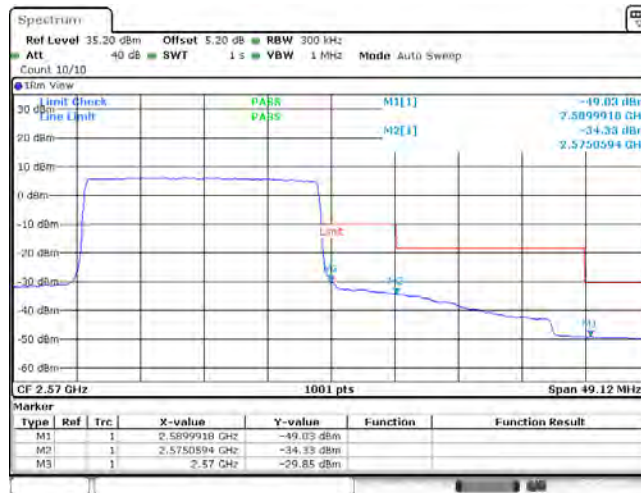
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Date: 29 MAY 2019 23:26:42

Band7_20MHz_QPSK_21350_100RB#0



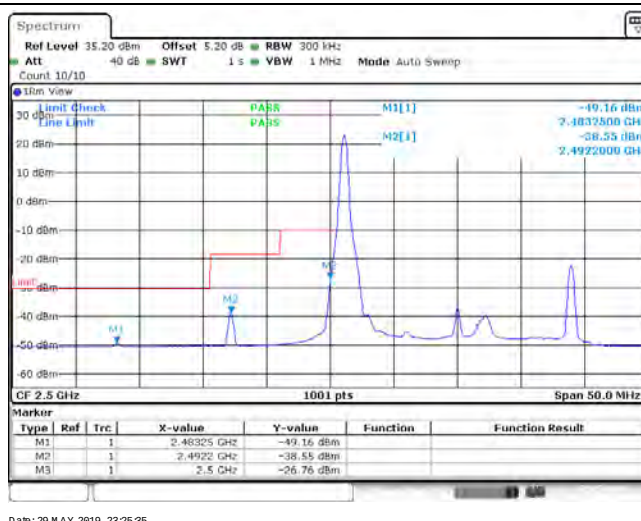
Date: 29 MAY 2019 23:27:24

Band7_20MHz_16QAM_20850_1RB#0



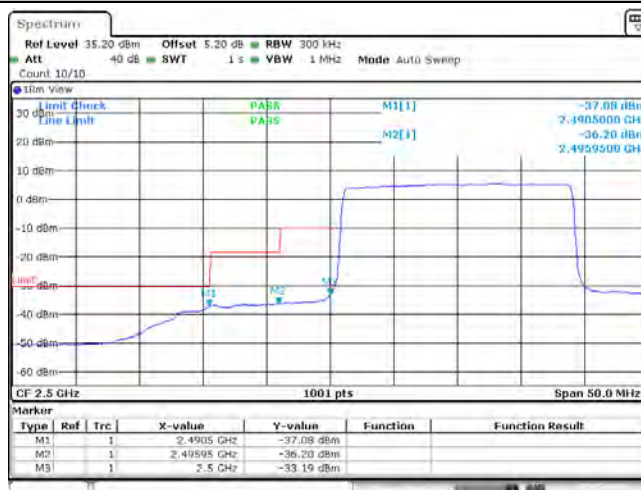
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Date: 29 MAY 2019 23:25:35

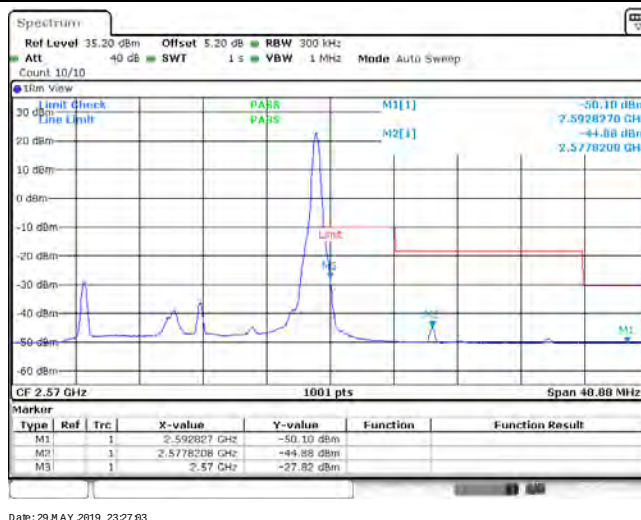
Band7_20MHz_16QAM_20850_100RB#0



Date: 29 MAY 2019 23:26:18

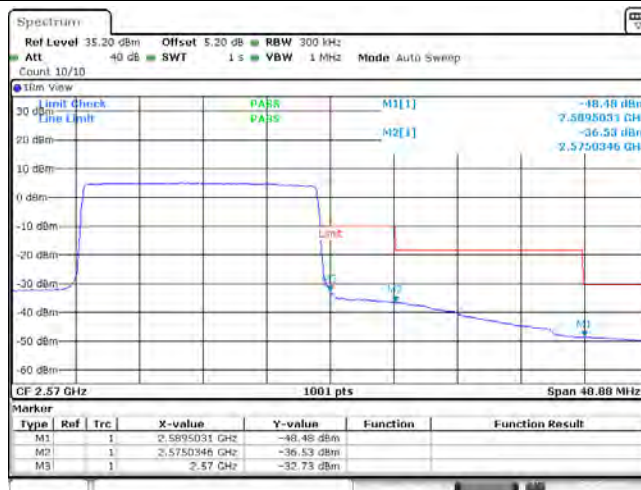
Band7_20MHz_16QAM_21350_1RB#99





Date: 29 MAY 2019 23:27:03

Band7_20MHz_16QAM_21350_100RB#0



Date: 29 MAY 2019 23:27:46





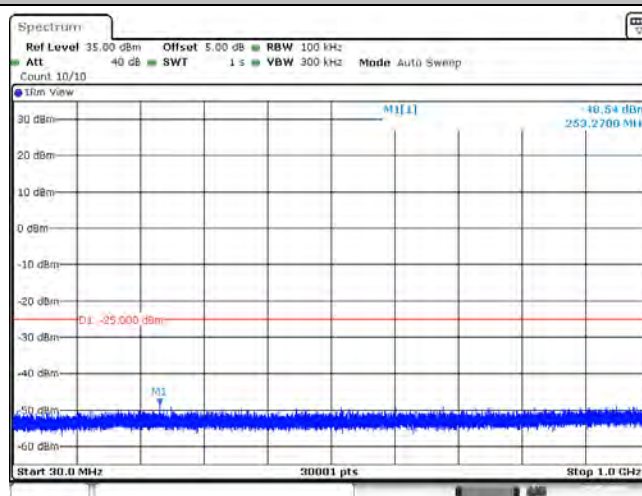
6. Spurious Emission at Antenna Terminal

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.

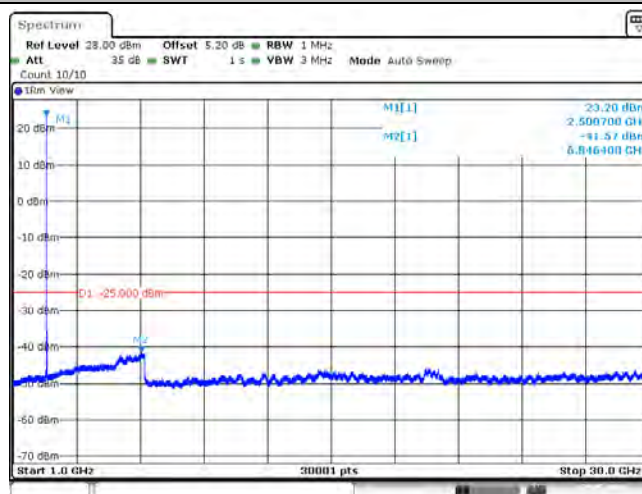
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band7_20MHz_QPSK_20850_1RB#0



Band7_20MHz_QPSK_20850_1RB#0

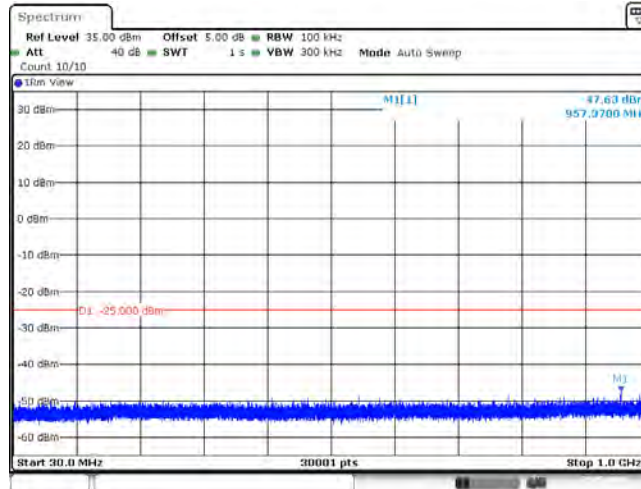


Band7_20MHz_QPSK_21100_1RB#0



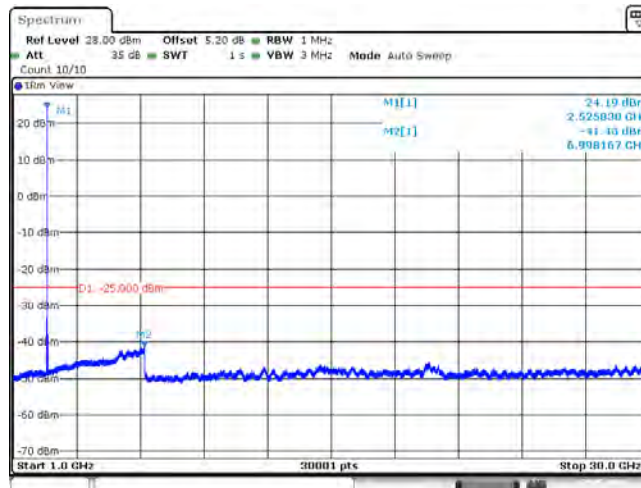
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Date: 29 MAY 2019 23:29:28

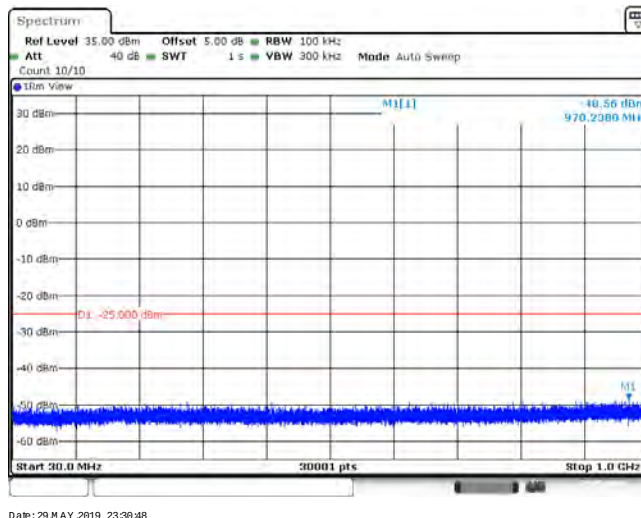
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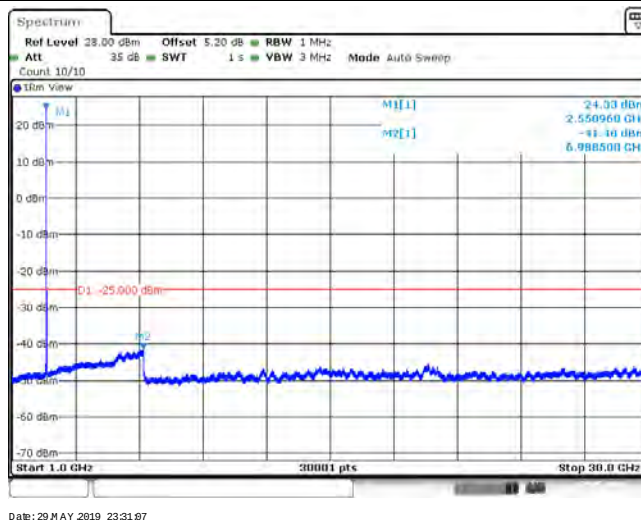
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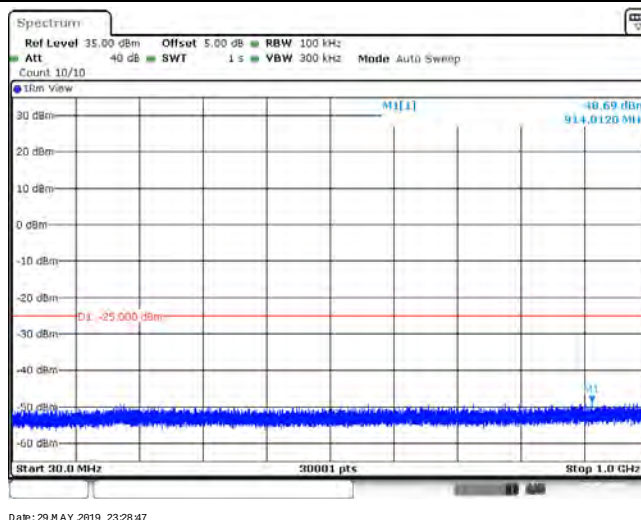


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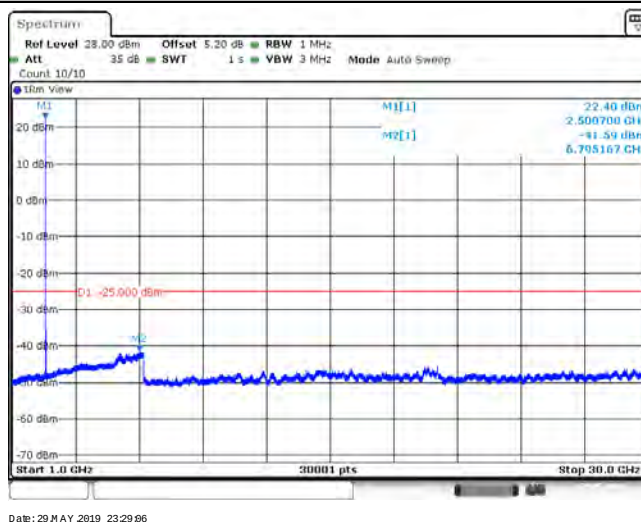


Band7_20MHz_16QAM_20850_1RB#0



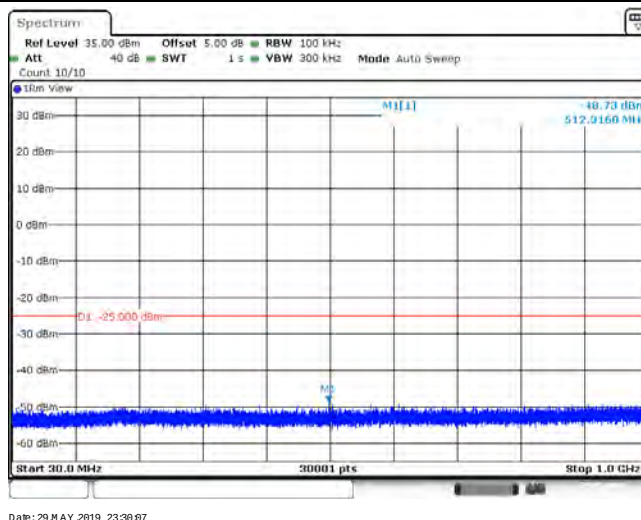


Band7_20MHz_16QAM_20850_1RB#0

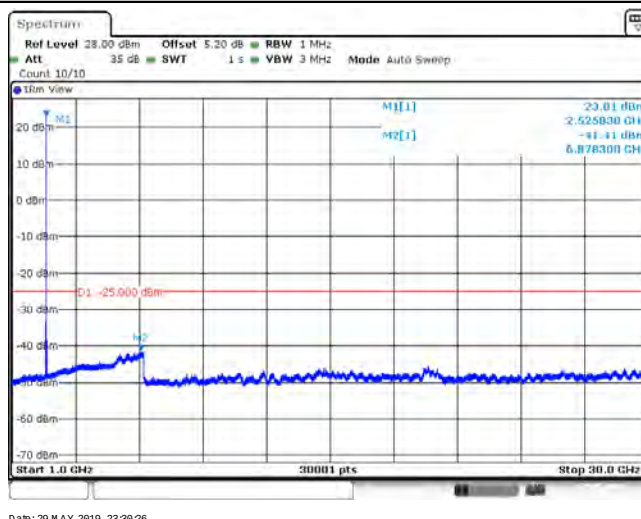


Band7_20MHz_16QAM_21100_1RB#0



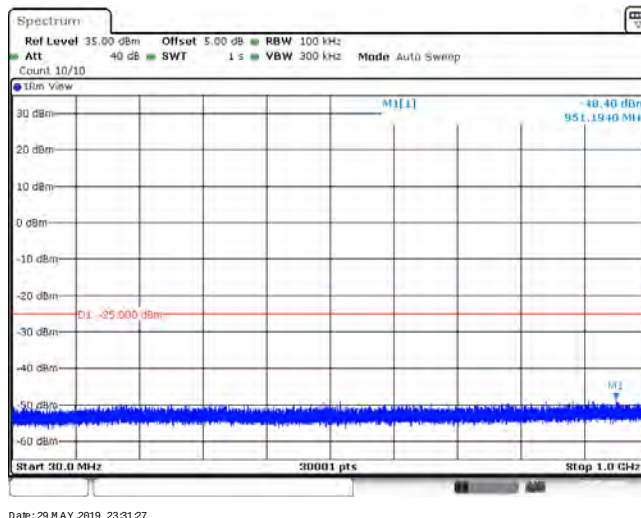


Band7_20MHz_16QAM_21100_1RB#0

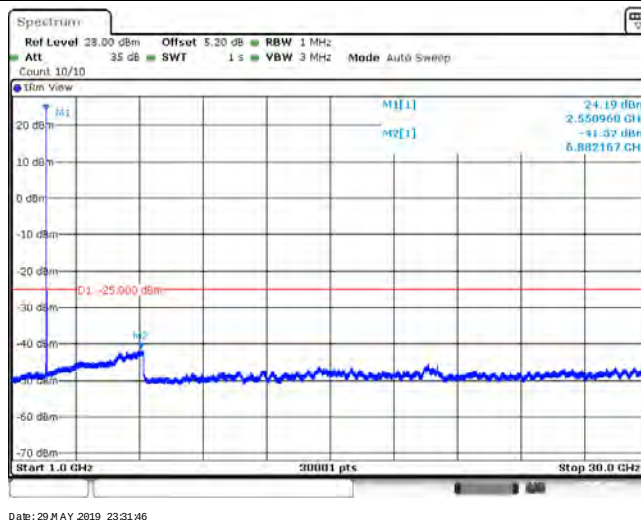


Band7_20MHz_16QAM_21350_1RB#0





Band7_20MHz_16QAM_21350_1RB#0





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
63.950000	-80.19	-25.00	55.19	Vertical
125.000000	-85.59	-25.00	60.59	Vertical
941.470833	-75.81	-25.00	50.81	Vertical
5002.000000	-52.52	-25.00	27.52	Vertical
7503.525000	-49.34	-25.00	24.34	Vertical
10004.400000	-60.15	-25.00	35.15	Vertical
63.200000	-76.21	-25.00	51.21	Horizontal
621.187500	-80.79	-25.00	55.79	Horizontal
950.912500	-75.59	-25.00	50.59	Horizontal
5002.000000	-60.79	-25.00	35.79	Horizontal
7503.200000	-56.10	-25.00	31.10	Horizontal
10004.075000	-62.19	-25.00	37.19	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.400000	-80.49	-25.00	55.49	Vertical
125.000000	-85.34	-25.00	60.34	Vertical
949.125000	-75.65	-25.00	50.65	Vertical
5052.050000	-53.76	-25.00	28.76	Vertical
7578.275000	-51.44	-25.00	26.44	Vertical
10104.500000	-60.17	-25.00	35.17	Vertical
56.700000	-76.08	-25.00	51.08	Horizontal
609.545833	-81.42	-25.00	56.42	Horizontal
953.341667	-75.30	-25.00	50.30	Horizontal
5052.375000	-61.60	-25.00	36.60	Horizontal
7578.275000	-57.46	-25.00	32.46	Horizontal
10635.875000	-61.99	-25.00	36.99	Horizontal





7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.250000	-80.23	-25.00	55.23	Vertical
125.000000	-84.84	-25.00	59.84	Vertical
948.300000	-75.66	-25.00	50.66	Vertical
5101.775000	-55.71	-25.00	30.71	Vertical
7653.025000	-52.02	-25.00	27.02	Vertical
10204.600000	-60.38	-25.00	35.38	Vertical
62.300000	-76.17	-25.00	51.17	Horizontal
767.716667	-78.54	-25.00	53.54	Horizontal
937.208333	-75.91	-25.00	50.91	Horizontal
5101.775000	-60.58	-25.00	35.58	Horizontal
7653.025000	-59.06	-25.00	34.06	Horizontal
10657.975000	-62.41	-25.00	37.41	Horizontal

Remark:

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

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



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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	3.10	0.001235	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-0.20	-0.000080	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	0.80	0.000319	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-0.70	-0.000276	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-4.60	-0.001815	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-4.00	-0.001578	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	2.60	0.001016	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-0.80	-0.000313	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	1.40	0.000547	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	1.70	0.000677	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	1.30	0.000518	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	0.60	0.000239	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-1.30	-0.000513	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-2.30	-0.000907	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-1.90	-0.000742	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-0.20	-0.000078	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	0.80	0.000313	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-0.20	-0.000080	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	3.10	0.001235	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	0.20	0.000080	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	3.00	0.001195	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	0.60	0.000239	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	3.90	0.001554	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-0.80	-0.000319	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-0.90	-0.000359	±2.5	PASS



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Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-5.00	-0.001972	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-2.00	-0.000789	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-2.00	-0.000789	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-1.80	-0.000710	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-2.90	-0.001144	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-4.50	-0.001775	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-5.70	-0.002249	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-1.90	-0.000750	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	0.30	0.000117	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	1.70	0.000664	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	1.30	0.000508	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-0.90	-0.000352	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-0.20	-0.000078	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	1.50	0.000586	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	2.40	0.000938	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	3.00	0.001195	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	0.90	0.000359	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	1.90	0.000757	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	2.10	0.000837	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	3.80	0.001514	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	3.00	0.001195	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	1.20	0.000478	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	2.10	0.000837	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-4.10	-0.001617	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-3.80	-0.001499	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-2.60	-0.001026	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-2.00	-0.000789	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-1.40	-0.000552	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-2.10	-0.000828	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-3.60	-0.001420	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-4.20	-0.001657	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-1.00	-0.000391	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	2.40	0.000938	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	3.00	0.001172	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	1.40	0.000547	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	2.90	0.001133	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	0.90	0.000352	±2.5	PASS



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Band7	20MHz	16QAM	21350	100RB#0	NV	40	-1.40	-0.000547	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-0.20	-0.000078	±2.5	PASS

The End



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