

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	23.43	22.78	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.76	23.11	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.46	22.81	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.54	21.89	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.60	21.95	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.59	21.94	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.62	21.97	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.59	22.94	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.83	23.18	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.55	22.90	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.69	22.04	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.70	22.05	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.66	22.01	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.73	22.08	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.46	22.81	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.69	23.04	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.40	22.75	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.62	21.97	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.63	21.98	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.54	21.89	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.65	22.00	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.54	21.89	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.88	22.23	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.70	22.05	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.55	20.90	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.61	20.96	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.60	20.95	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.57	20.92	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.79	22.14	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.98	22.33	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.72	22.07	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.70	21.05	33.00	PASS



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Band7	5MHz	16QAM	21100	12RB#6	21.71	21.06	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.66	21.01	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.66	21.01	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.53	21.88	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.83	22.18	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.64	21.99	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.64	20.99	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.65	21.00	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.57	20.92	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.57	20.92	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.55	22.90	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.72	23.07	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.64	22.99	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.67	22.02	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.71	22.06	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.71	22.06	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.69	22.04	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.72	23.07	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.79	23.14	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.62	22.97	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.82	22.17	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.78	22.13	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.77	22.12	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.81	22.16	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.59	22.94	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.68	23.03	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.49	22.84	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.72	22.07	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.67	22.02	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.65	22.00	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.67	22.02	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.69	22.04	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.87	22.22	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.82	22.17	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.62	20.97	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.65	21.00	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.66	21.01	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.65	21.00	33.00	PASS



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Band7	10MHz	16QAM	21100	1RB#0	22.80	22.15	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.89	22.24	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.78	22.13	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.73	21.08	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.70	21.05	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.70	21.05	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.73	21.08	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.70	22.05	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.75	22.10	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.59	21.94	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.61	20.96	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.63	20.98	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.60	20.95	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.61	20.96	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.50	22.85	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.68	23.03	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.60	22.95	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.64	21.99	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.68	22.03	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.72	22.07	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.69	22.04	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.68	23.03	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.69	23.04	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.56	22.91	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	22.76	22.11	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.74	22.09	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.71	22.06	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.76	22.11	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.60	22.95	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.59	22.94	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.42	22.77	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.68	22.03	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.65	22.00	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	22.61	21.96	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.64	21.99	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.69	22.04	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.77	22.12	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.69	22.04	33.00	PASS



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Band7	15MHz	16QAM	20825	36RB#0	21.63	20.98	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.68	21.03	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.70	21.05	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.67	21.02	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.72	22.07	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.75	22.10	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.70	22.05	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.72	21.07	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	21.69	21.04	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	21.66	21.01	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.67	21.02	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.75	22.10	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.80	22.15	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.53	21.88	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	21.65	21.00	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	21.61	20.96	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	21.61	20.96	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.59	20.94	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.45	22.80	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.75	23.10	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.56	22.91	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.71	22.06	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.73	22.08	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.75	22.10	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.70	22.05	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.61	22.96	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.75	23.10	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.46	22.81	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.78	22.13	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.77	22.12	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.70	22.05	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.70	22.05	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.57	22.92	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.67	23.02	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.36	22.71	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.73	22.08	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.70	22.05	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.62	21.97	33.00	PASS



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Band7	20MHz	QPSK	21350	100RB#0	22.65	22.00	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.65	22.00	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.95	22.30	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.70	22.05	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.67	21.02	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.66	21.01	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.69	21.04	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.65	21.00	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.68	22.03	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.85	22.20	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.67	22.02	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.70	21.05	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.72	21.07	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.63	20.98	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.65	21.00	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.82	22.17	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.85	22.20	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.61	21.96	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.67	21.02	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.64	20.99	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.55	20.90	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.59	20.94	33.00	PASS

Remark:

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

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

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



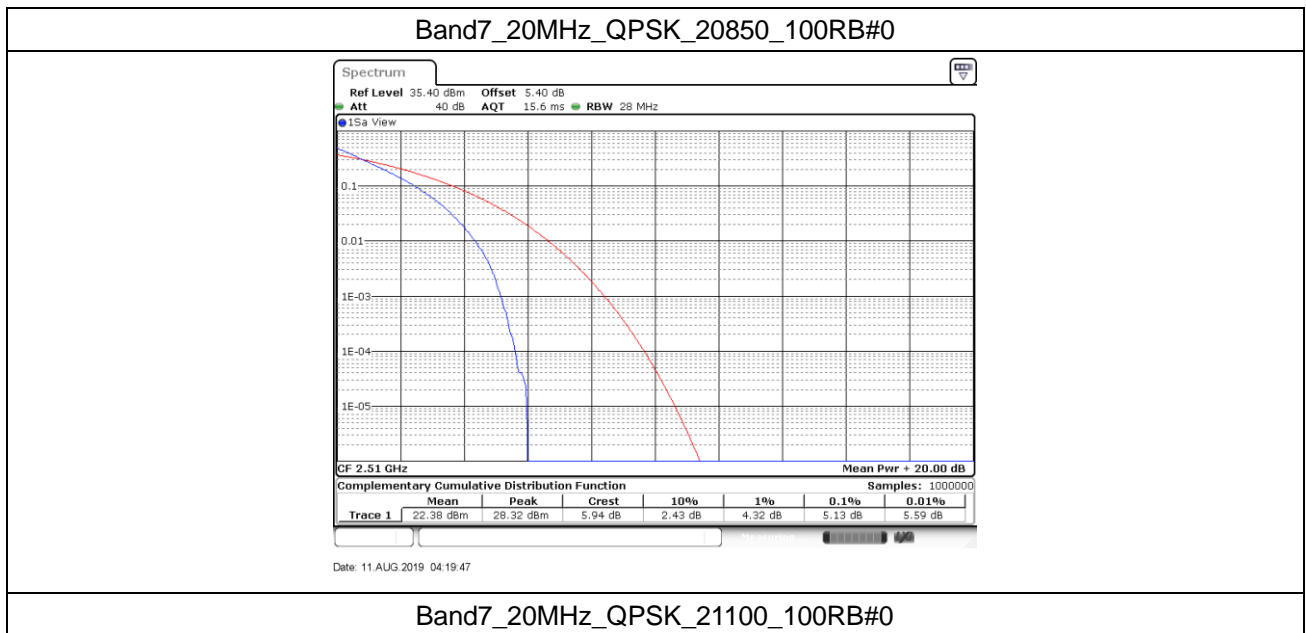
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

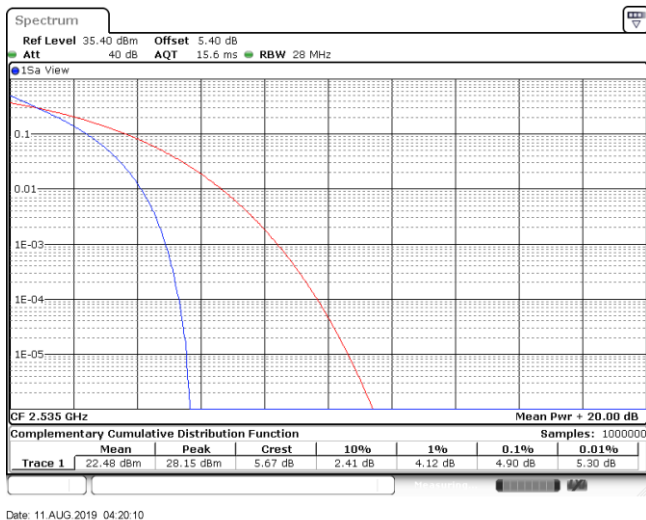
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.13	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.90	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.99	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.09	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.77	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.88	13	PASS

2.2. Test Plots



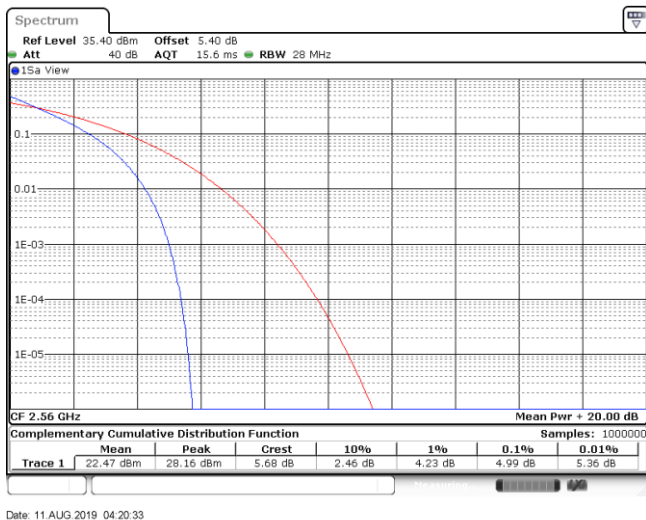
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Date: 11 AUG.2019 04:20:10

Band7_20MHz_QPSK_21350_100RB#0

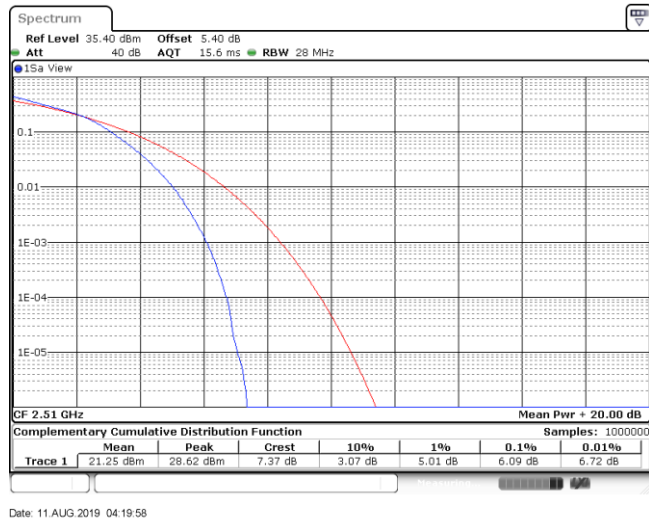


Date: 11 AUG.2019 04:20:33

Band7_20MHz_16QAM_20850_100RB#0

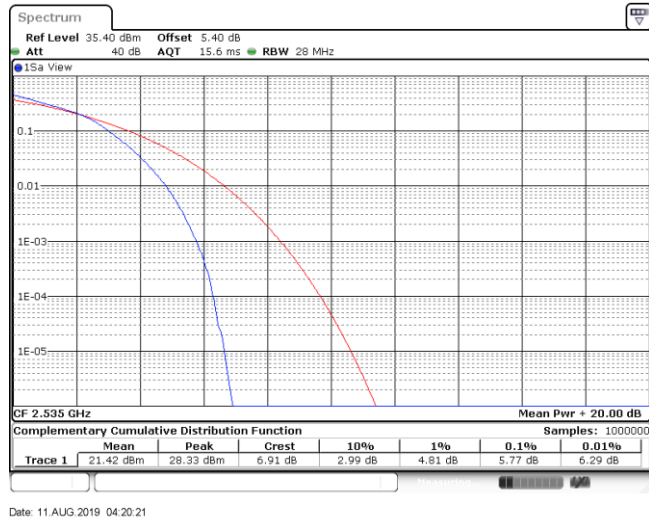


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Date: 11 AUG 2019 04:19:58

Band7_20MHz_16QAM_21100_100RB#0

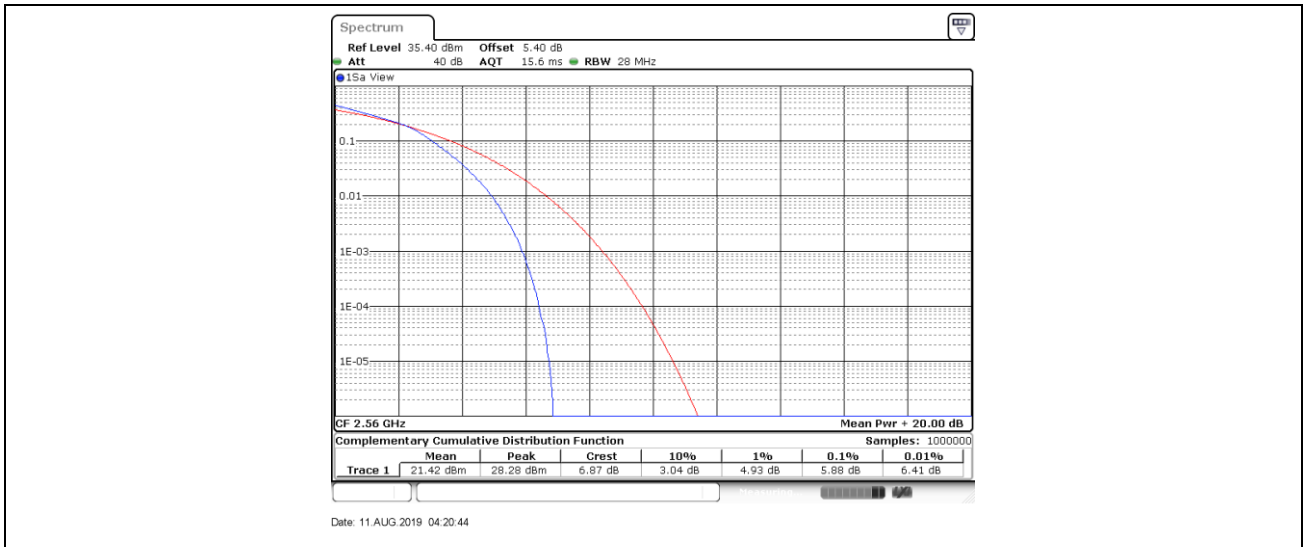


Date: 11 AUG 2019 04:20:21

Band7_20MHz_16QAM_21350_100RB#0



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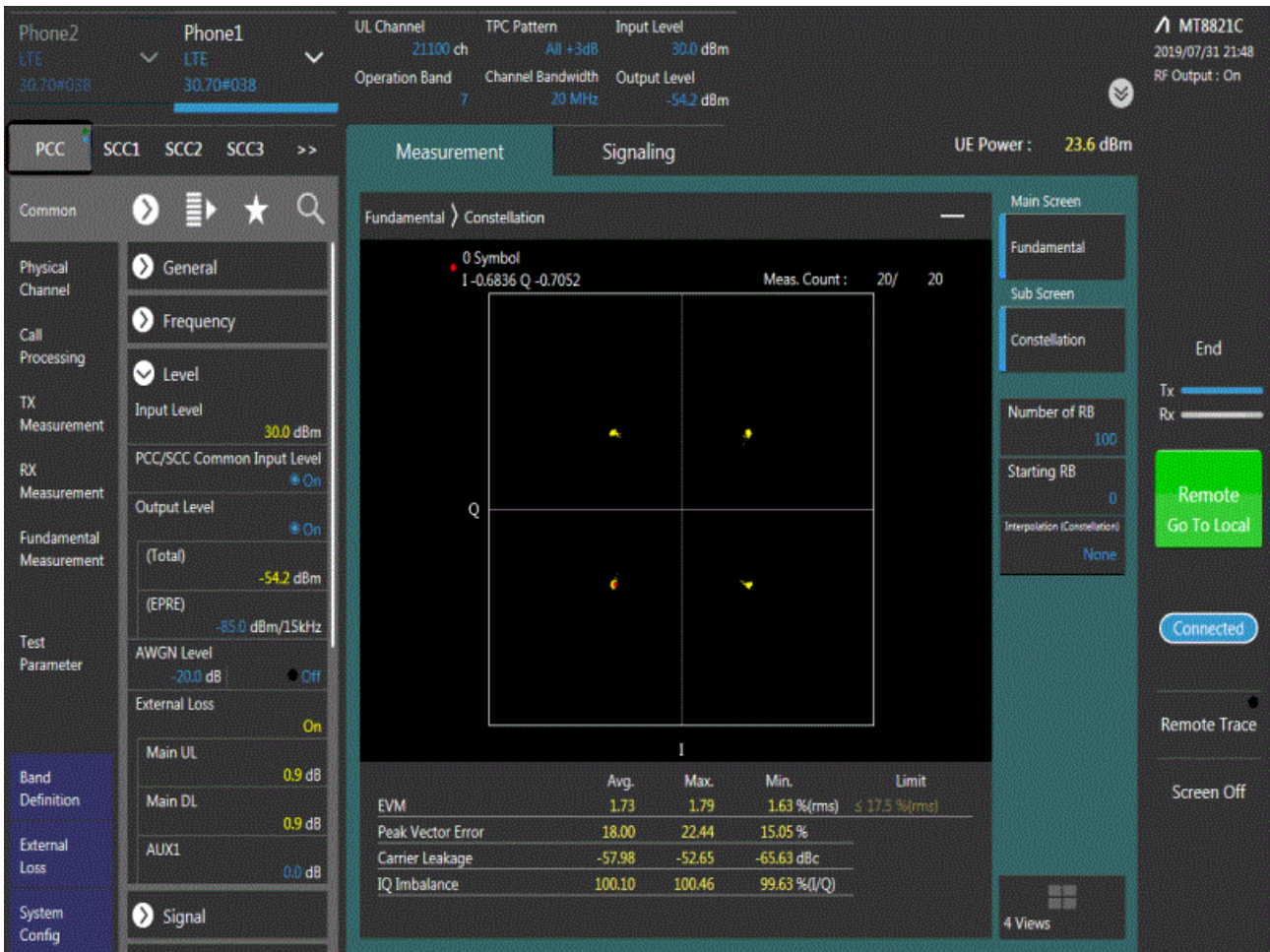
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3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.2. Test Mode = LTE /TM1 20MHz

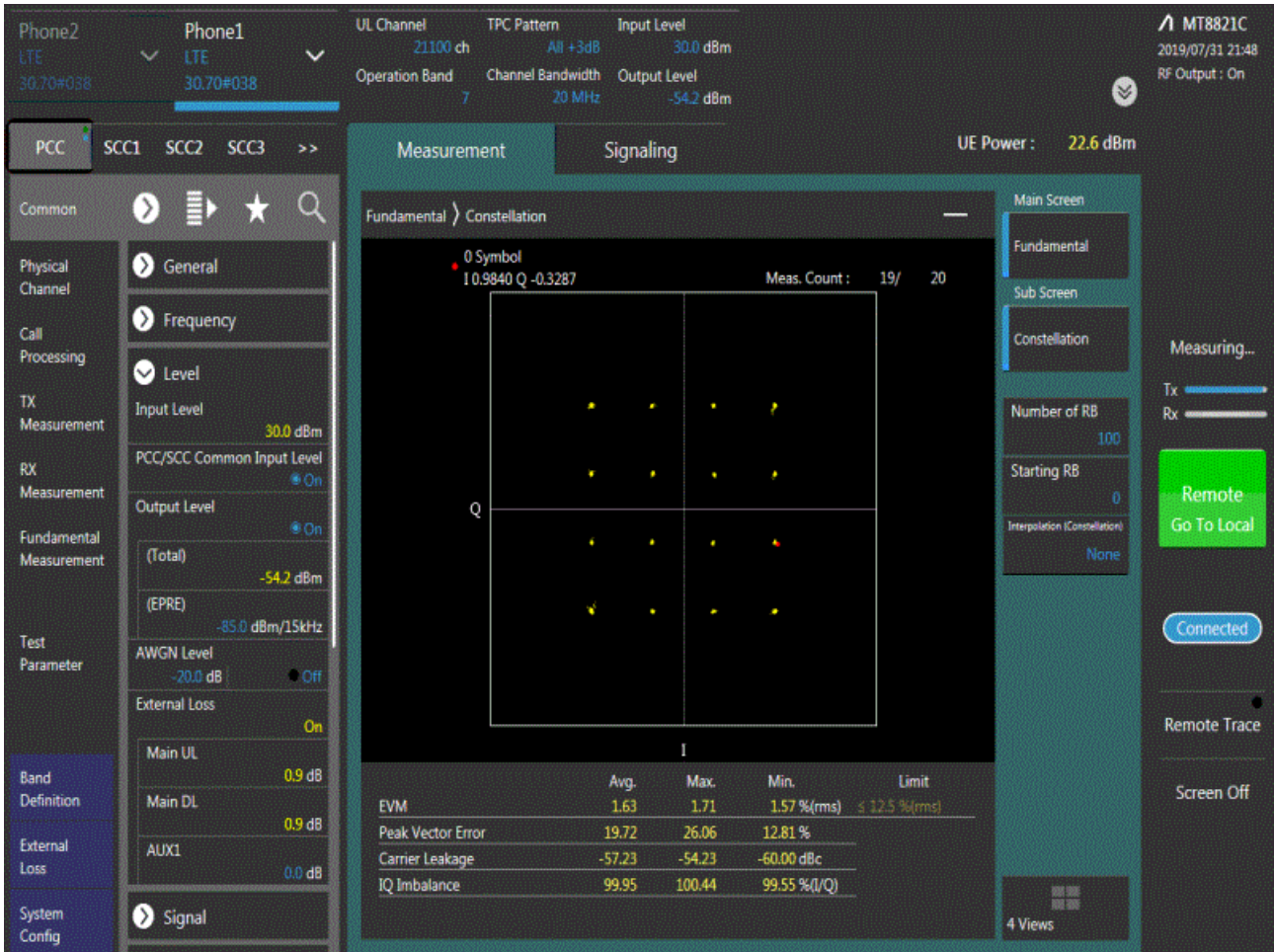
3.2.1. Test Channel = MCH



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3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

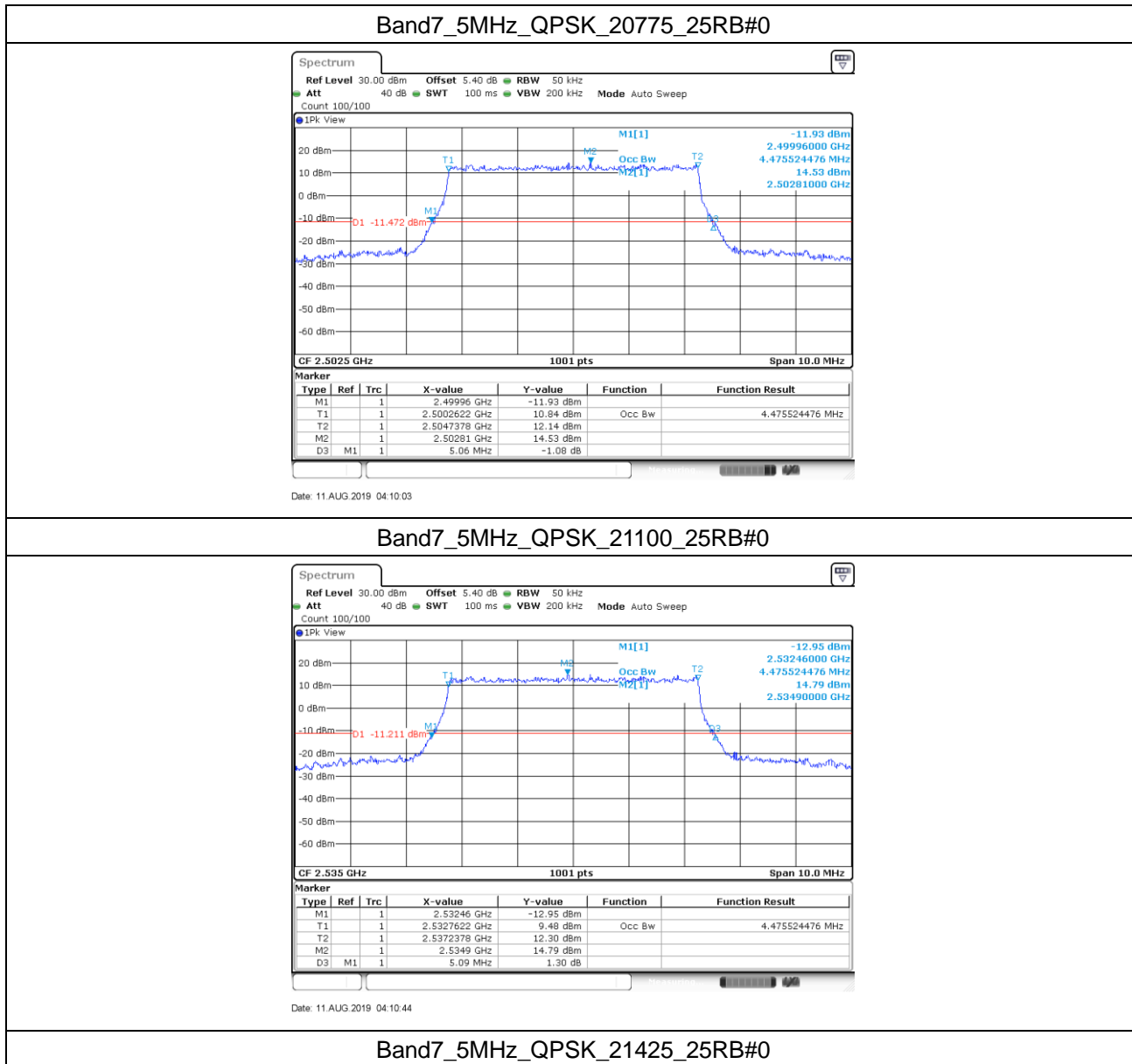
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.476	5.060	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	5.090	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	5.080	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	5.090	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.496	5.090	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.496	5.100	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.920	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.860	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.931	9.900	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.951	9.900	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.931	9.920	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.951	9.940	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.487	15.090	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.487	15.180	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.457	15.060	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.487	15.150	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.487	15.150	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.487	15.090	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.942	19.680	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.902	19.760	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.902	19.760	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.600	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.902	19.680	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.902	19.760	PASS



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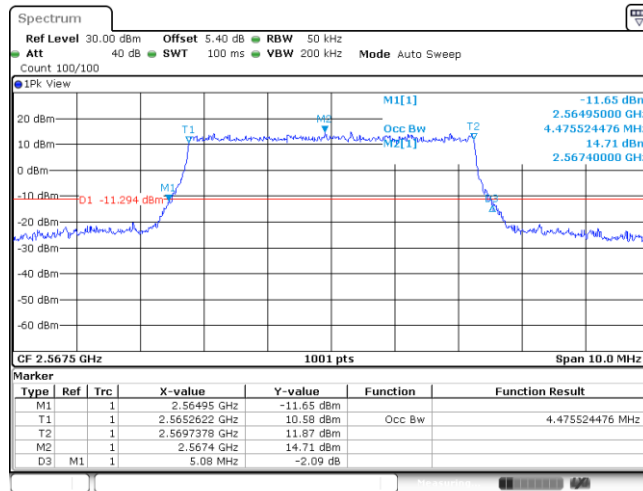
4.2. Test Plots



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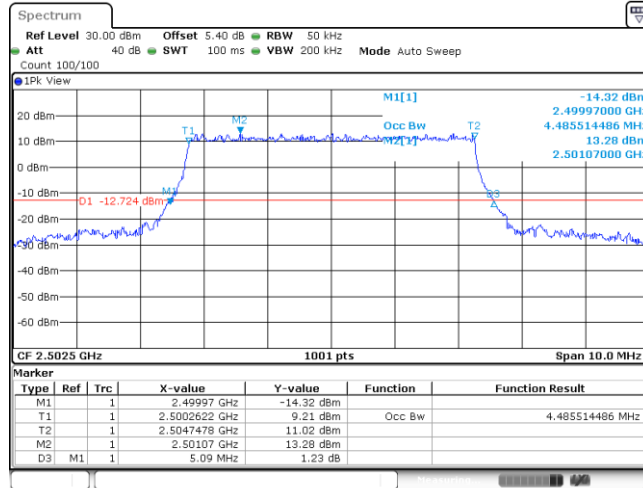
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Date: 11 AUG 2019 04:11:24

Band7_5MHz_16QAM_20775_25RB#0

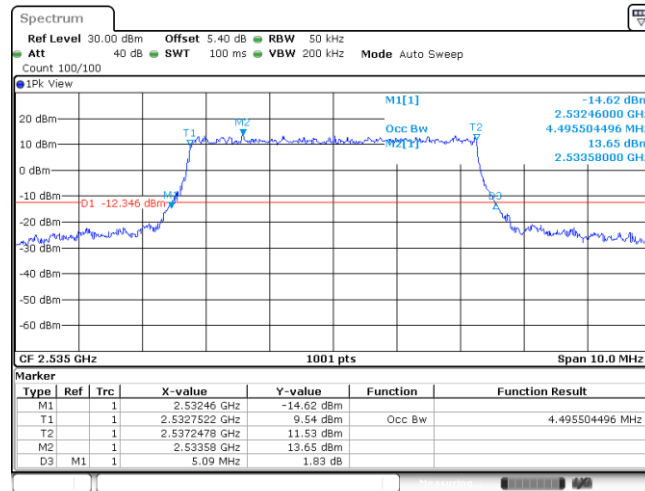


Date: 11 AUG 2019 04:10:23

Band7_5MHz_16QAM_21100_25RB#0

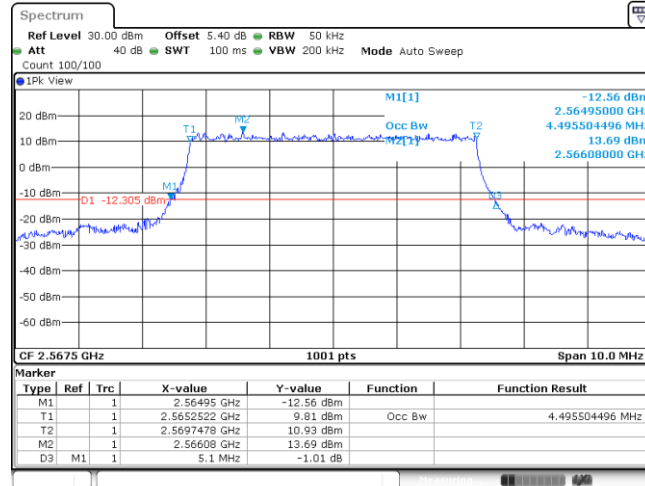


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Date: 11 AUG 2019 04:11:03

Band7_5MHz_16QAM_21425_25RB#0

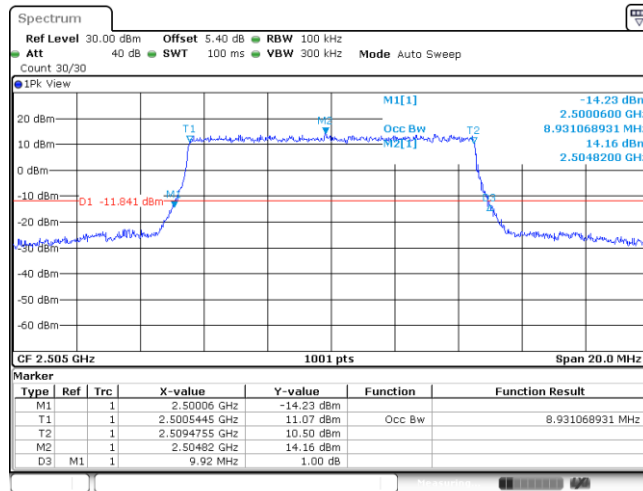


Date: 11 AUG 2019 04:11:44

Band7_10MHz_QPSK_20800_50RB#0

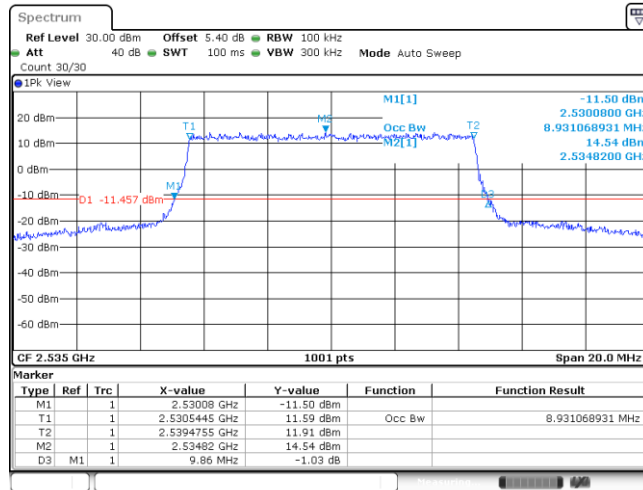


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Date: 11 AUG 2019 04:12:02

Band7_10MHz_QPSK_21100_50RB#0

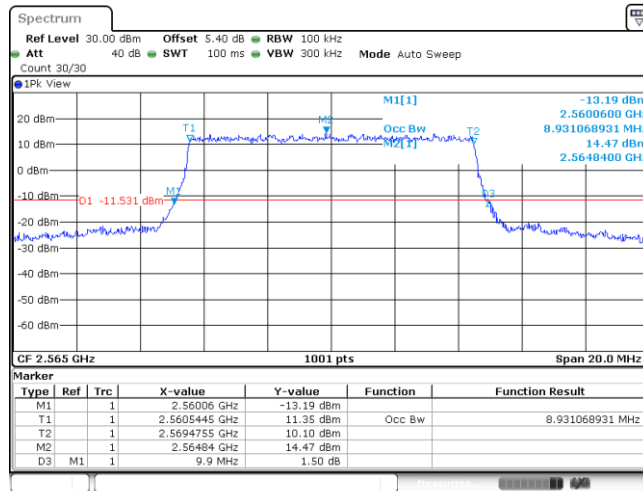


Date: 11 AUG 2019 04:12:28

Band7_10MHz_QPSK_21400_50RB#0

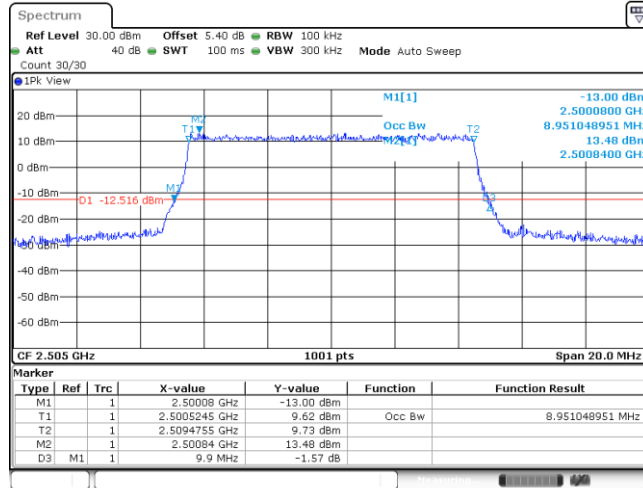


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Date: 11 AUG 2019 04:12:54

Band7_10MHz_16QAM_20800_50RB#

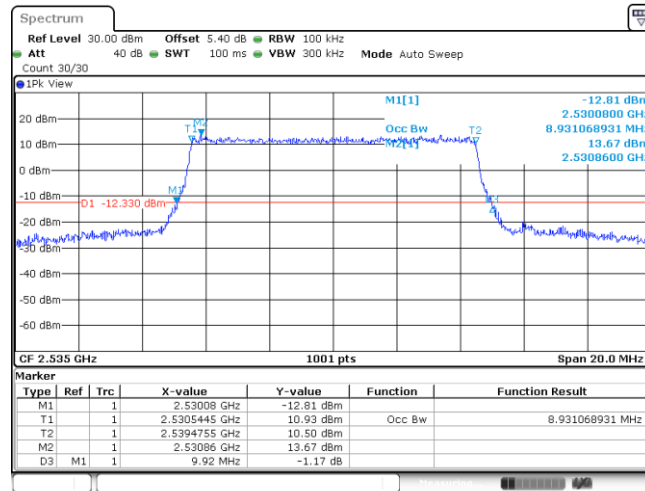


Date: 11 AUG 2019 04:12:14

Band7_10MHz_16QAM_21100_50RB#

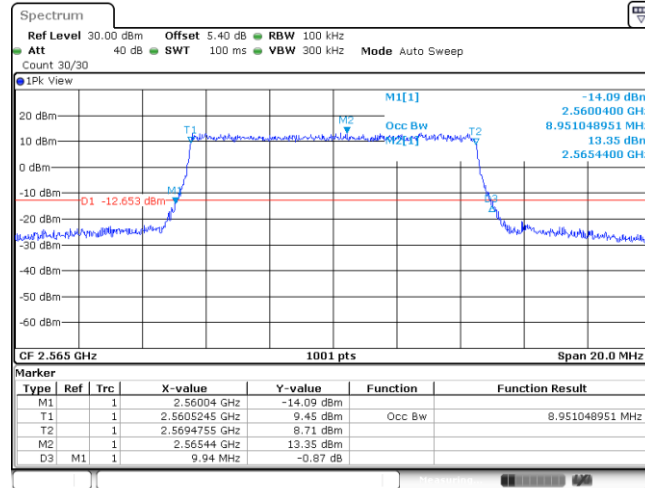


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Date: 11 AUG 2019 04:12:40

Band7_10MHz_16QAM_21400_50RB#0

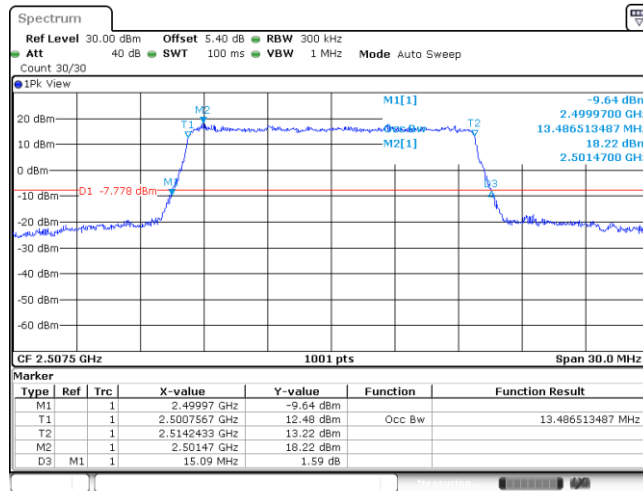


Date: 11 AUG 2019 04:13:07

Band7_15MHz_QPSK_20825_75RB#0

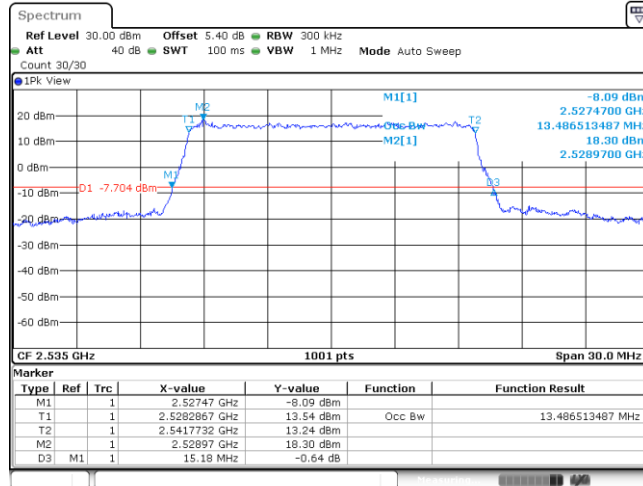


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Date: 11 AUG 2019 04:13:24

Band7_15MHz_QPSK_21100_75RB#0

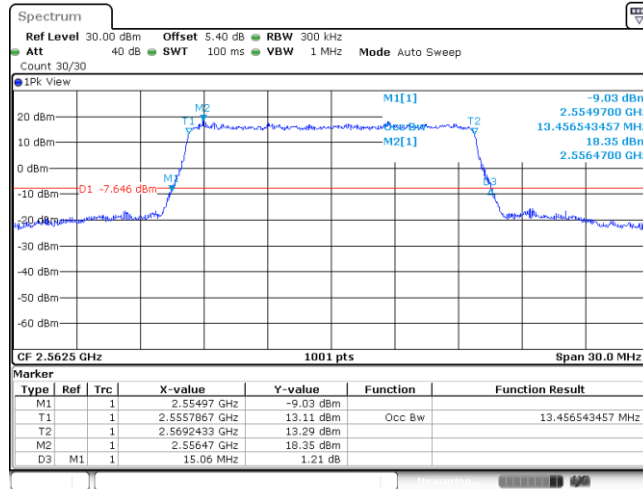


Date: 11 AUG 2019 04:13:50

Band7_15MHz_QPSK_21375_75RB#0

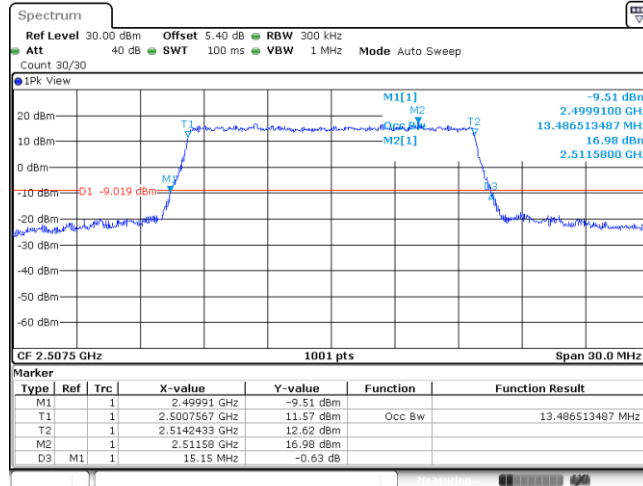


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Date: 11 AUG 2019 04:14:16

Band7_15MHz_16QAM_20825_75RB#0

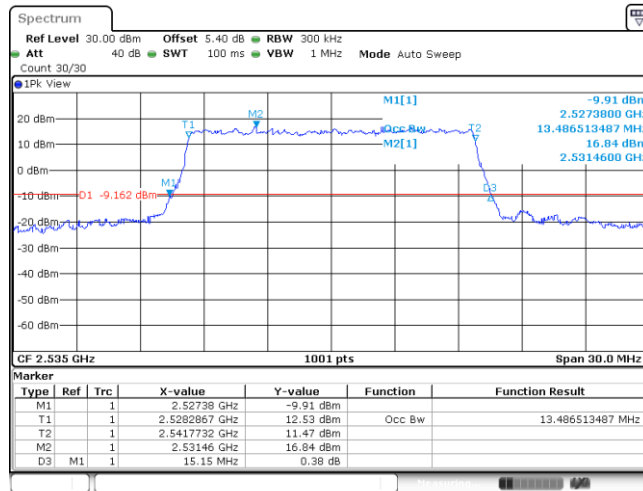


Date: 11 AUG 2019 04:13:37

Band7_15MHz_16QAM_21100_75RB#0

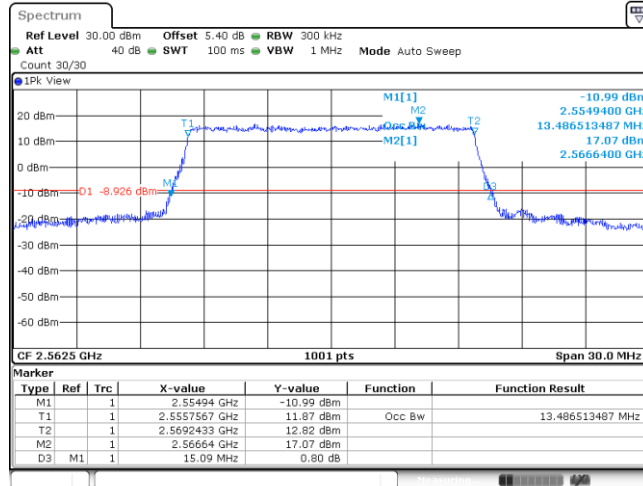


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Date: 11 AUG 2019 04:14:03

Band7_15MHz_16QAM_21375_75RB#0

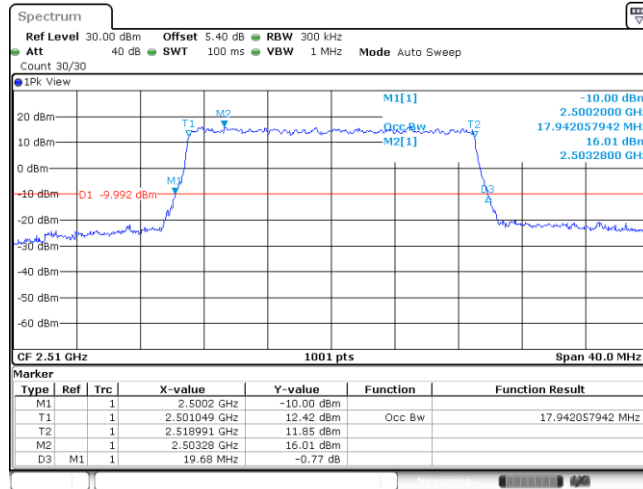


Date: 11 AUG 2019 04:14:29

Band7_20MHz_QPSK_20850_100RB#0

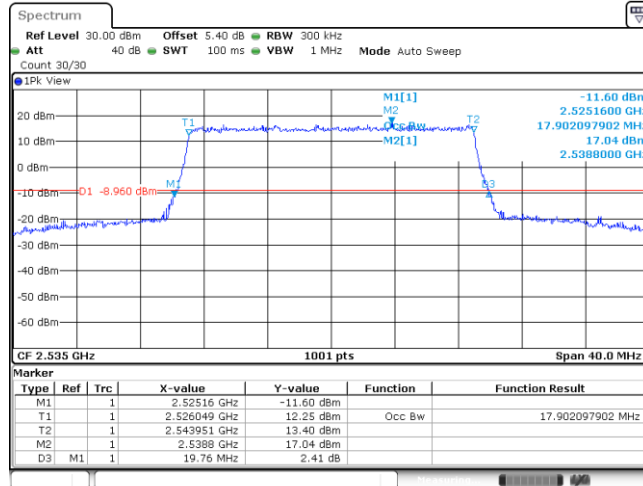


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Date: 11 AUG 2019 04:14:47

Band7_20MHz_QPSK_21100_100RB#0

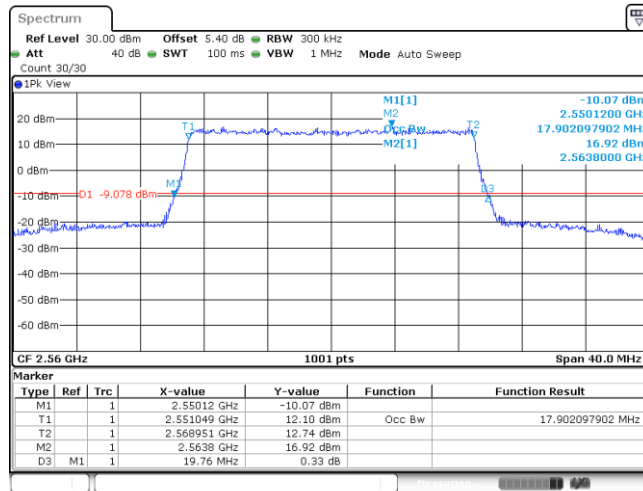


Date: 11 AUG 2019 04:15:14

Band7_20MHz_QPSK_21350_100RB#0

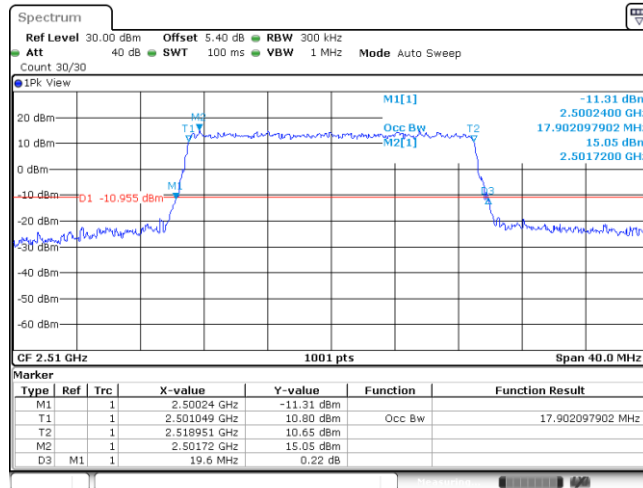


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Date: 11 AUG 2019 04:15:40

Band7_20MHz_16QAM_20850_100RB#0

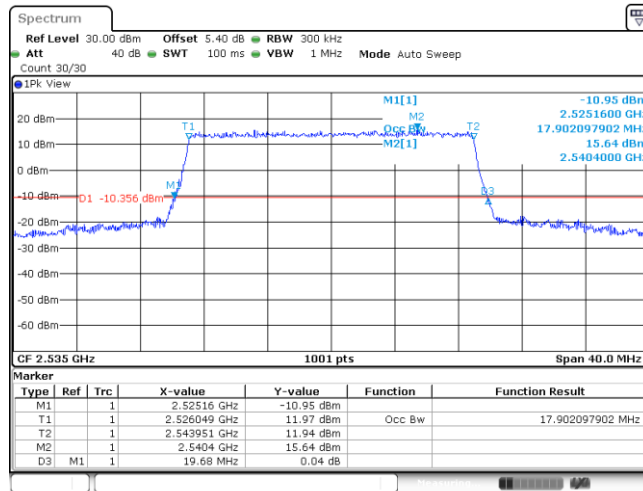


Date: 11 AUG 2019 04:15:00

Band7_20MHz_16QAM_21100_100RB#0

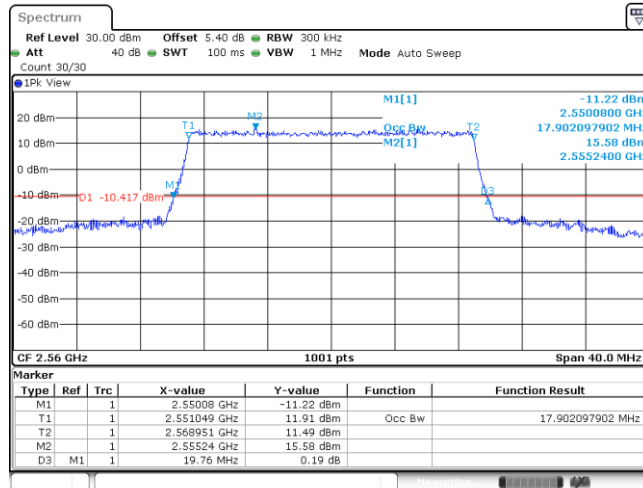


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Date: 11 AUG 2019 04:15:27

Band7_20MHz_16QAM_21350_100RB#0



Date: 11 AUG 2019 04:15:52

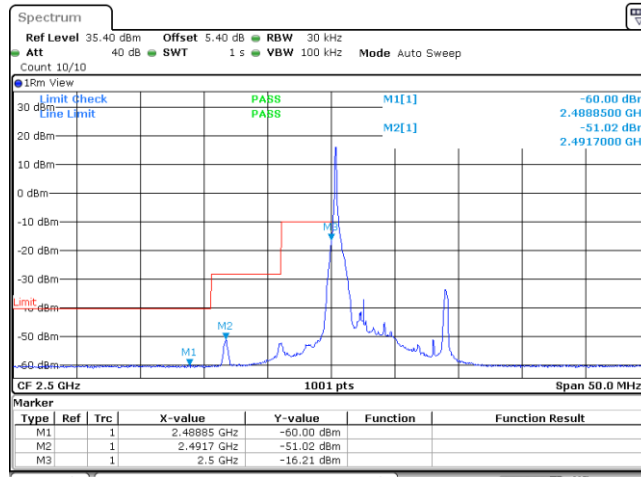


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5. Band Edge Compliance

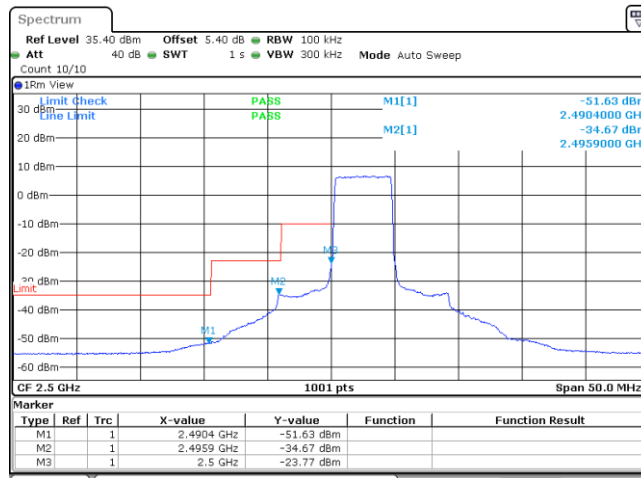
5.1. Test Plots

Band7_5MHz_QPSK_20775_1RB#0



Date: 10 AUG 2019 22:18:27

Band7_5MHz_QPSK_20775_25RB#0

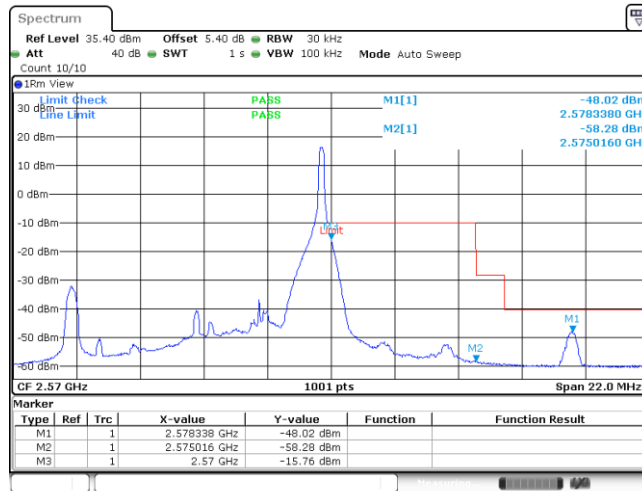


Date: 10 AUG 2019 22:17:57

Band7_5MHz_QPSK_21425_1RB#24

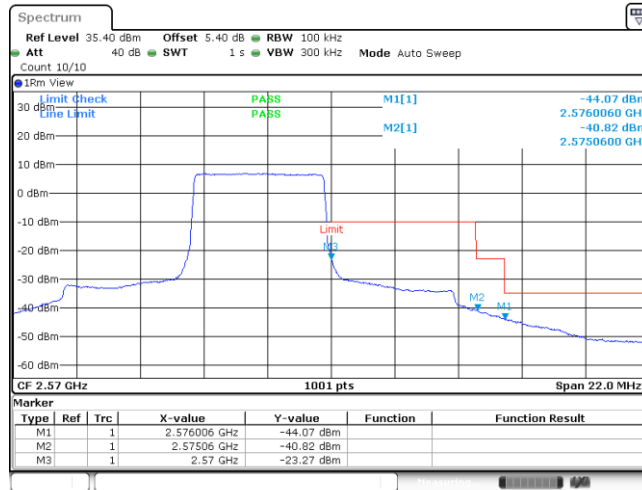


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Date: 10 AUG.2019 22:17:12

Band7_5MHz_QPSK_21425_25RB#0

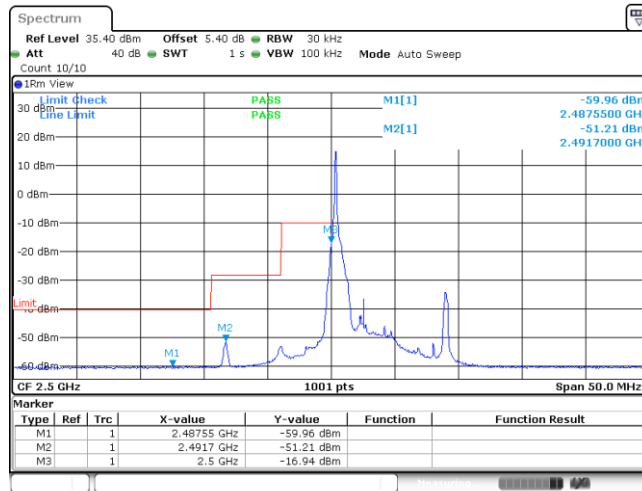


Date: 10 AUG.2019 22:18:38

Band7_5MHz_16QAM_20775_1RB#0

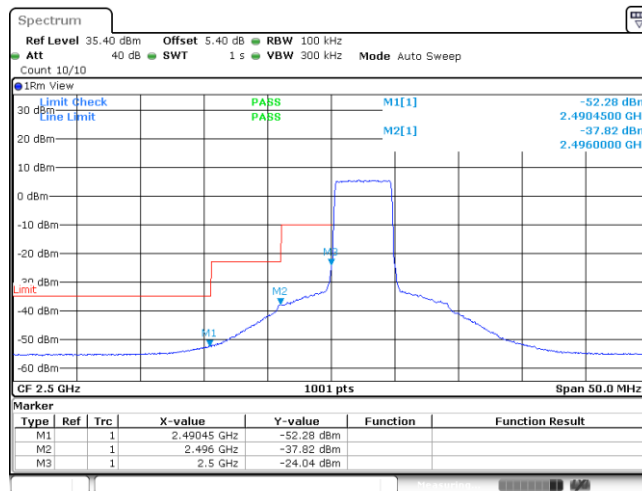


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Date: 10 AUG.2019 22:16:48

Band7_5MHz_16QAM_20775_25RB#0

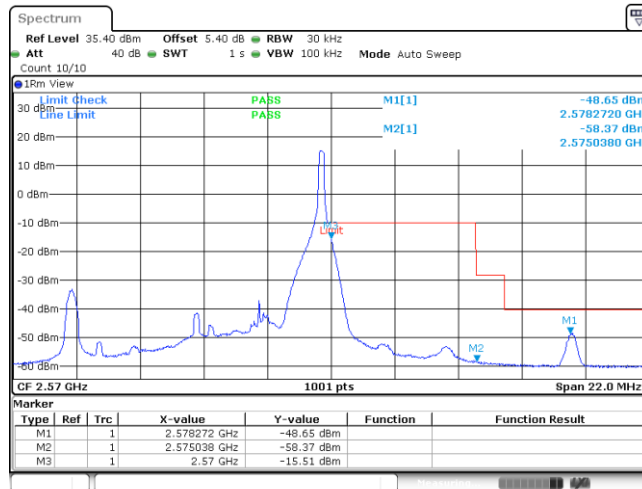


Date: 10 AUG.2019 22:18:17

Band7_5MHz_16QAM_21425_1RB#24

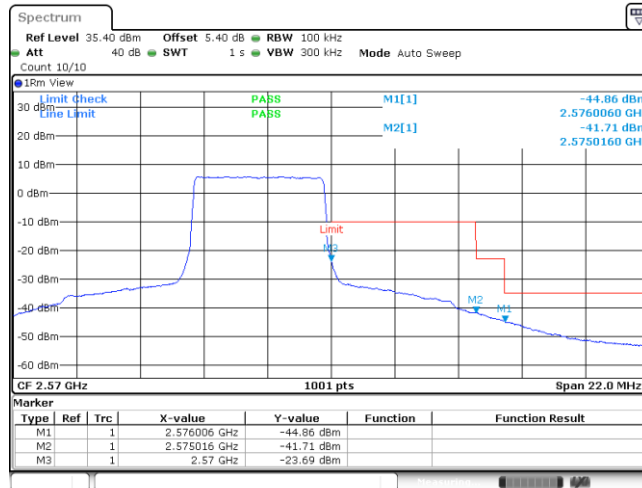


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Date: 10 AUG.2019 22:17:33

Band7_5MHz_16QAM_21425_25RB#0

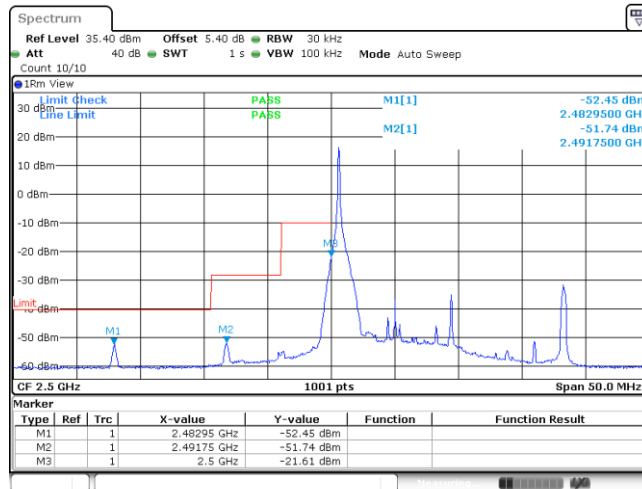


Date: 10 AUG.2019 22:18:58

Band7_10MHz_QPSK_20800_1RB#0

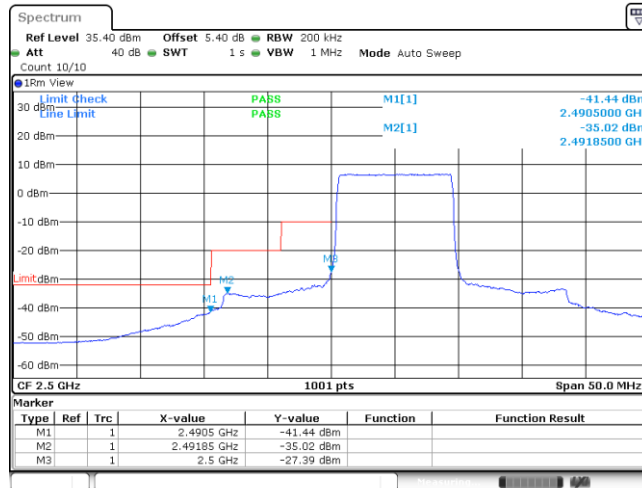


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Date: 10 AUG 2019 22:19:23

Band7_10MHz_QPSK_20800_50RB#0

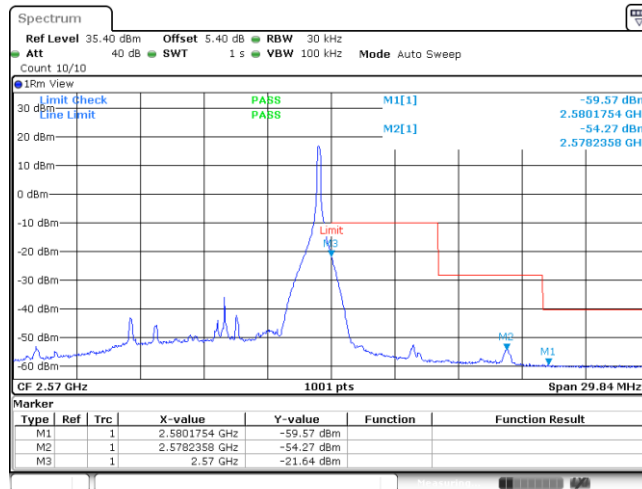


Date: 10 AUG 2019 22:20:53

Band7_10MHz_QPSK_21400_1RB#49

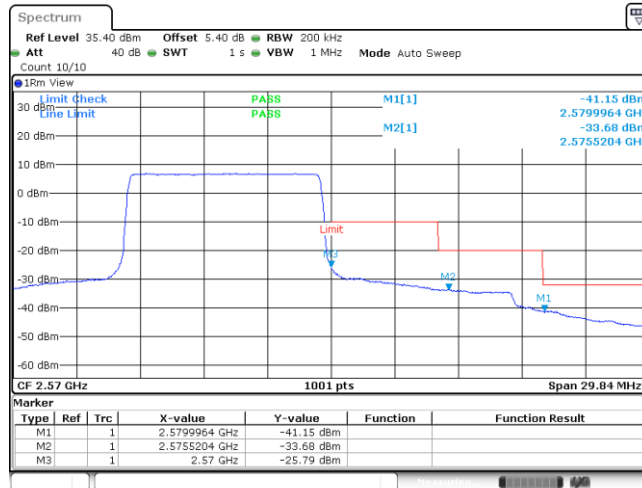


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Date: 10 AUG 2019 22:20:08

Band7_10MHz_QPSK_21400_50RB#0

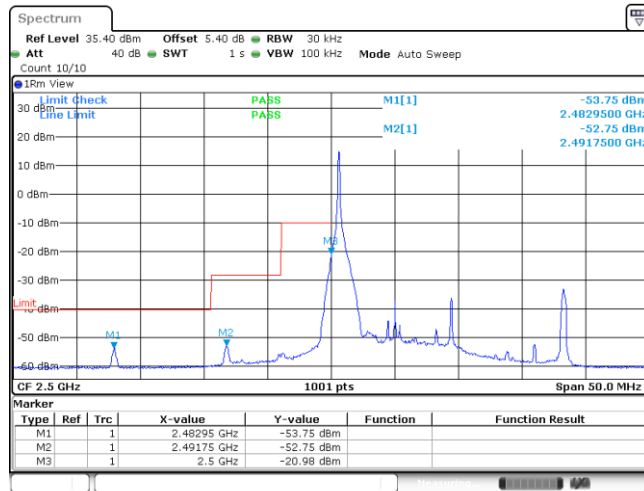


Date: 10 AUG 2019 22:21:34

Band7_10MHz_16QAM_20800_1RB#0

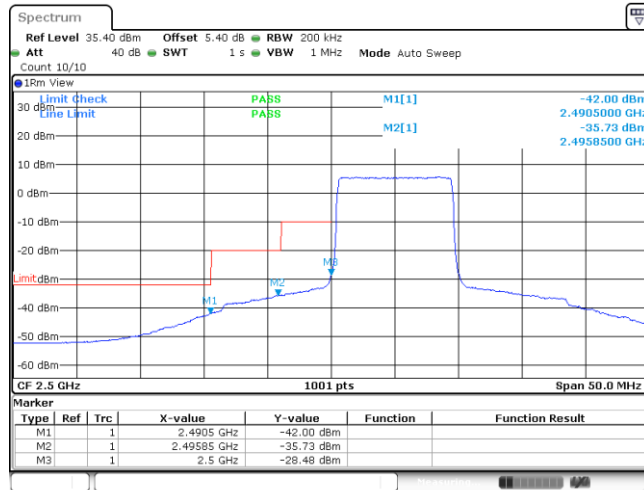


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Date: 10 AUG.2019 22:19:43

Band7_10MHz_16QAM_20800_50RB#0

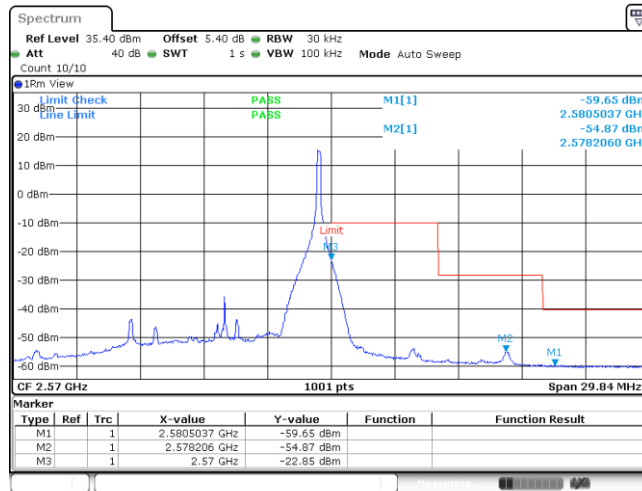


Date: 10 AUG.2019 22:21:13

Band7_10MHz_16QAM_21400_1RB#49

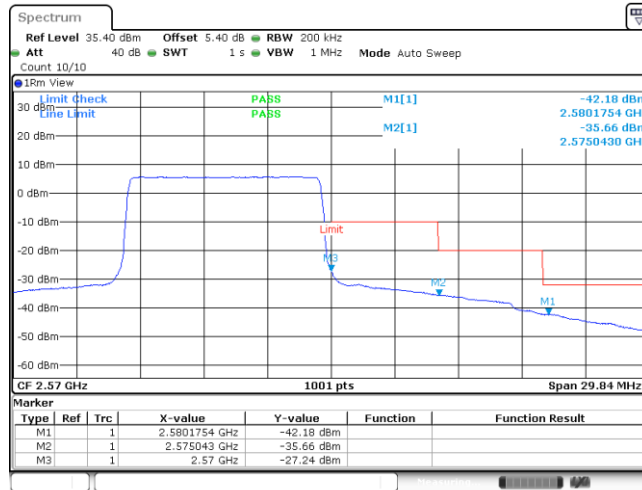


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Date: 10 AUG 2019 22:20:28

Band7_10MHz_16QAM_21400_50RB#0

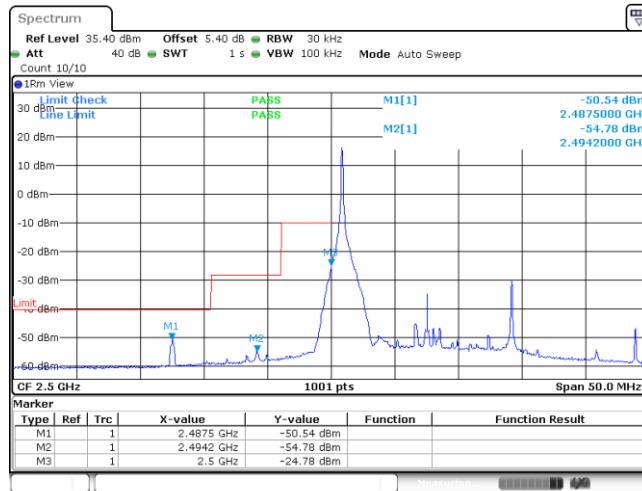


Date: 10 AUG 2019 22:21:54

Band7_15MHz_QPSK_20825_1RB#0

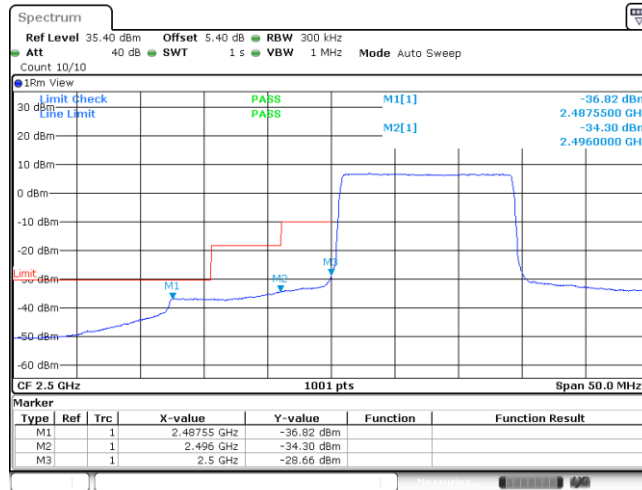


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Date: 10 AUG 2019 22:22:19

Band7_15MHz_QPSK_20825_75RB#0

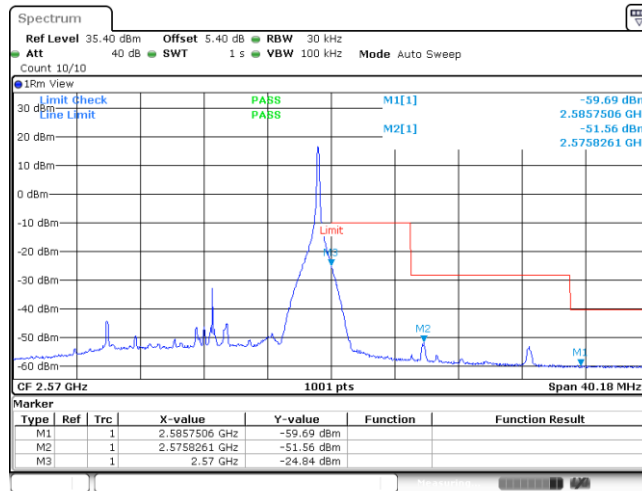


Date: 10 AUG 2019 22:23:48

Band7_15MHz_QPSK_21375_1RB#74

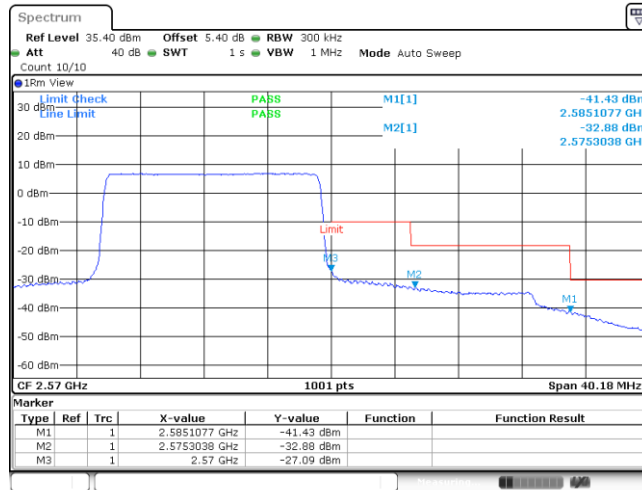


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Date: 10 AUG 2019 22:23:03

Band7_15MHz_QPSK_21375_75RB#0

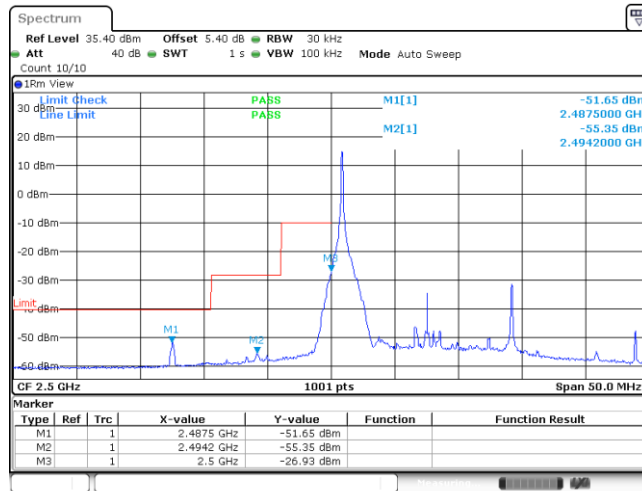


Date: 10 AUG 2019 22:24:29

Band7_15MHz_16QAM_20825_1RB#0

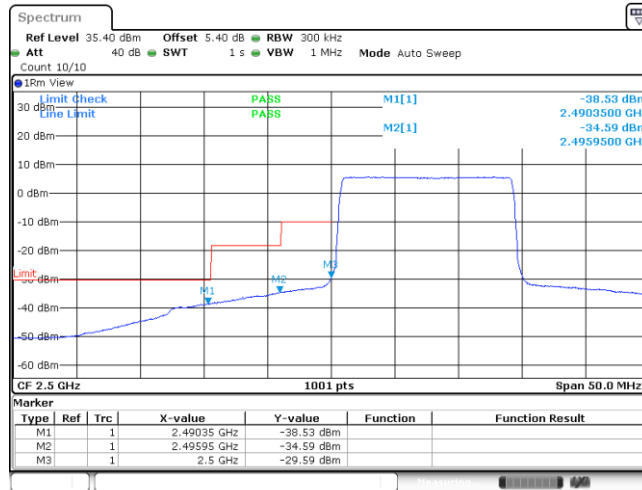


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Date: 10 AUG 2019 22:22:39

Band7_15MHz_16QAM_20825_75RB#0

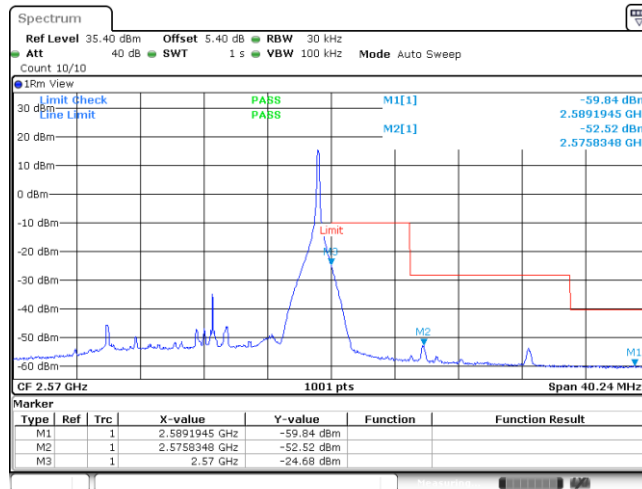


Date: 10 AUG 2019 22:24:09

Band7_15MHz_16QAM_21375_1RB#74

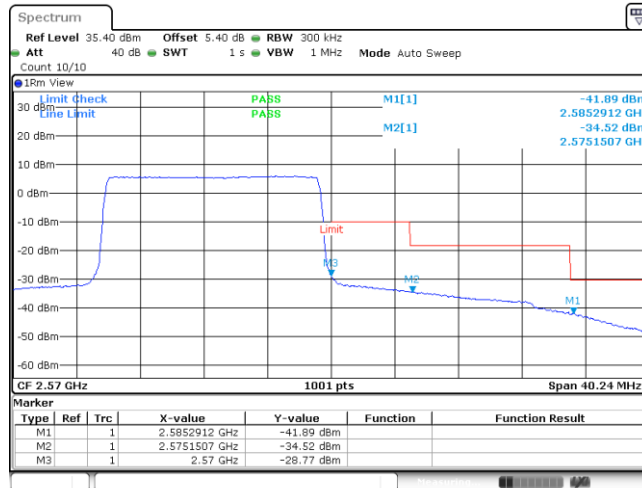


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Date: 10 AUG 2019 22:23:24

Band7_15MHz_16QAM_21375_75RB#0

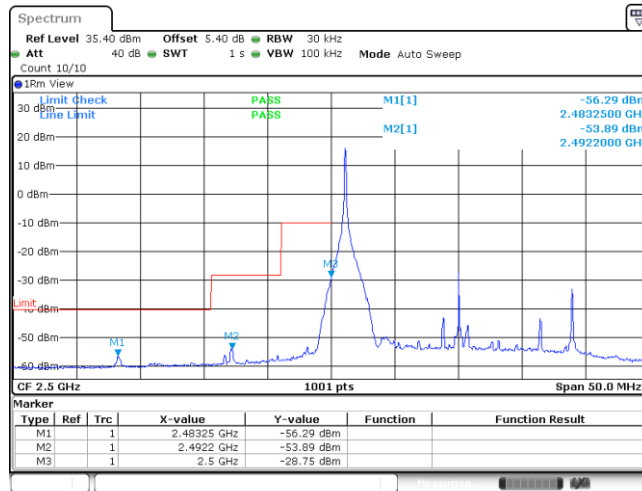


Date: 10 AUG 2019 22:24:49

Band7_20MHz_QPSK_20850_1RB#0

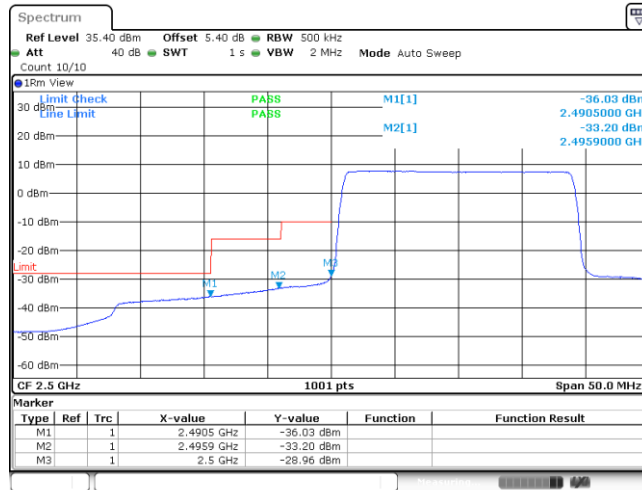


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Date: 10 AUG 2019 22:25:14

Band7_20MHz_QPSK_20850_100RB#0

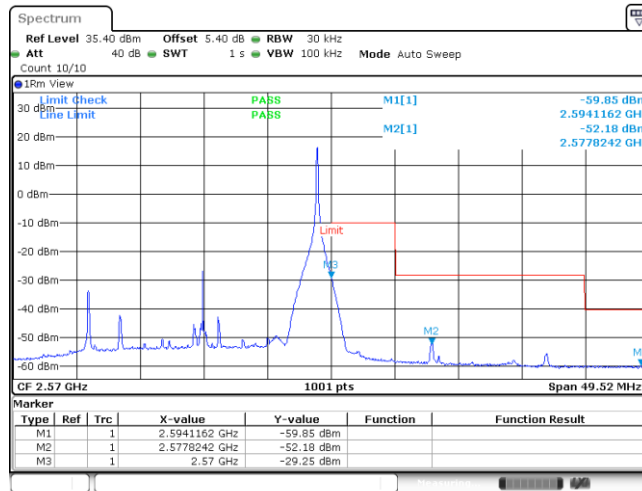


Date: 10 AUG 2019 22:28:44

Band7_20MHz_QPSK_21350_1RB#99

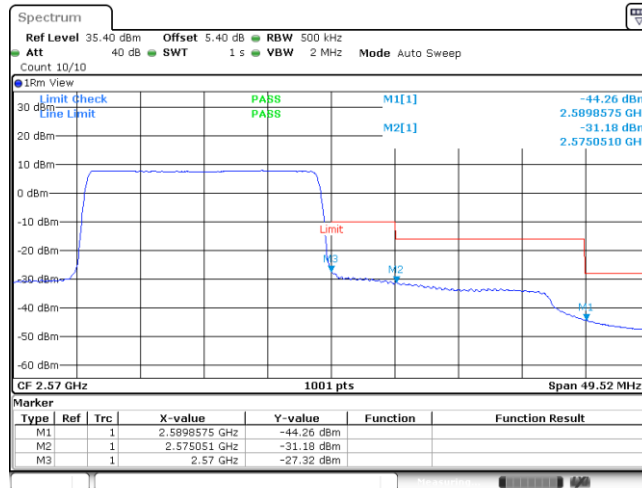


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Date: 10 AUG 2019 22:25:59

Band7_20MHz_QPSK_21350_100RB#0

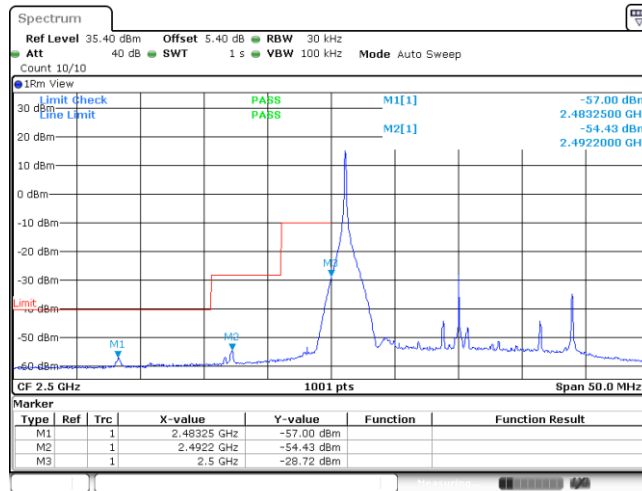


Date: 10 AUG 2019 22:27:25

Band7_20MHz_16QAM_20850_1RB#0

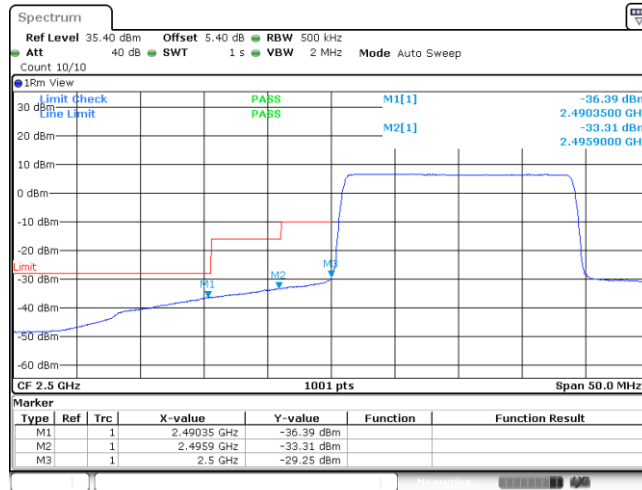


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Date: 10 AUG 2019 22:25:35

Band7_20MHz_16QAM_20850_100RB#0

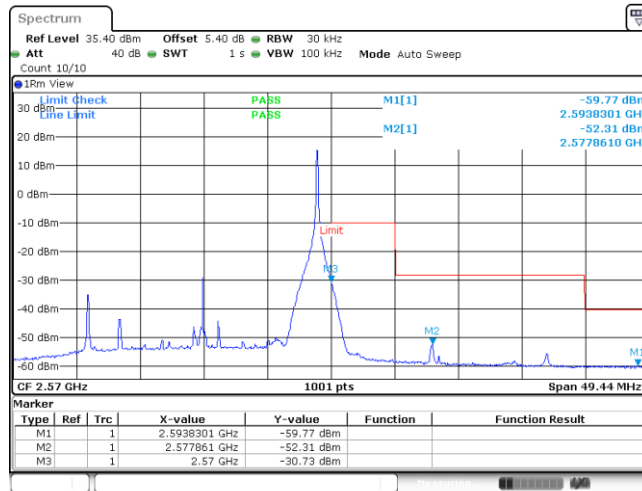


Date: 10 AUG 2019 22:27:04

Band7_20MHz_16QAM_21350_1RB#99

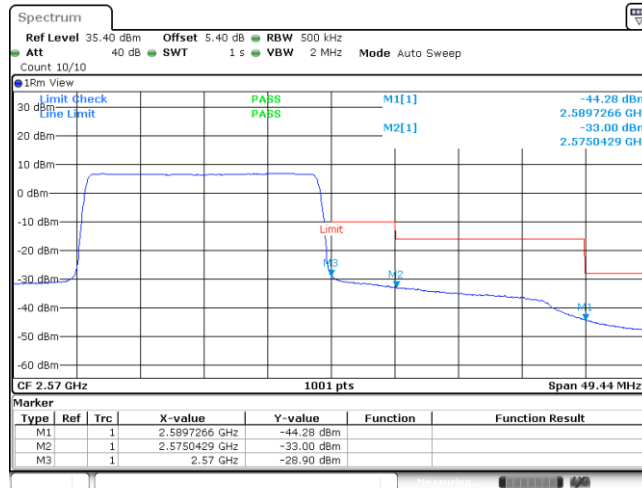


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Date: 10 AUG 2019 22:26:19

Band7_20MHz_16QAM_21350_100RB#0



Date: 10 AUG 2019 22:27:45



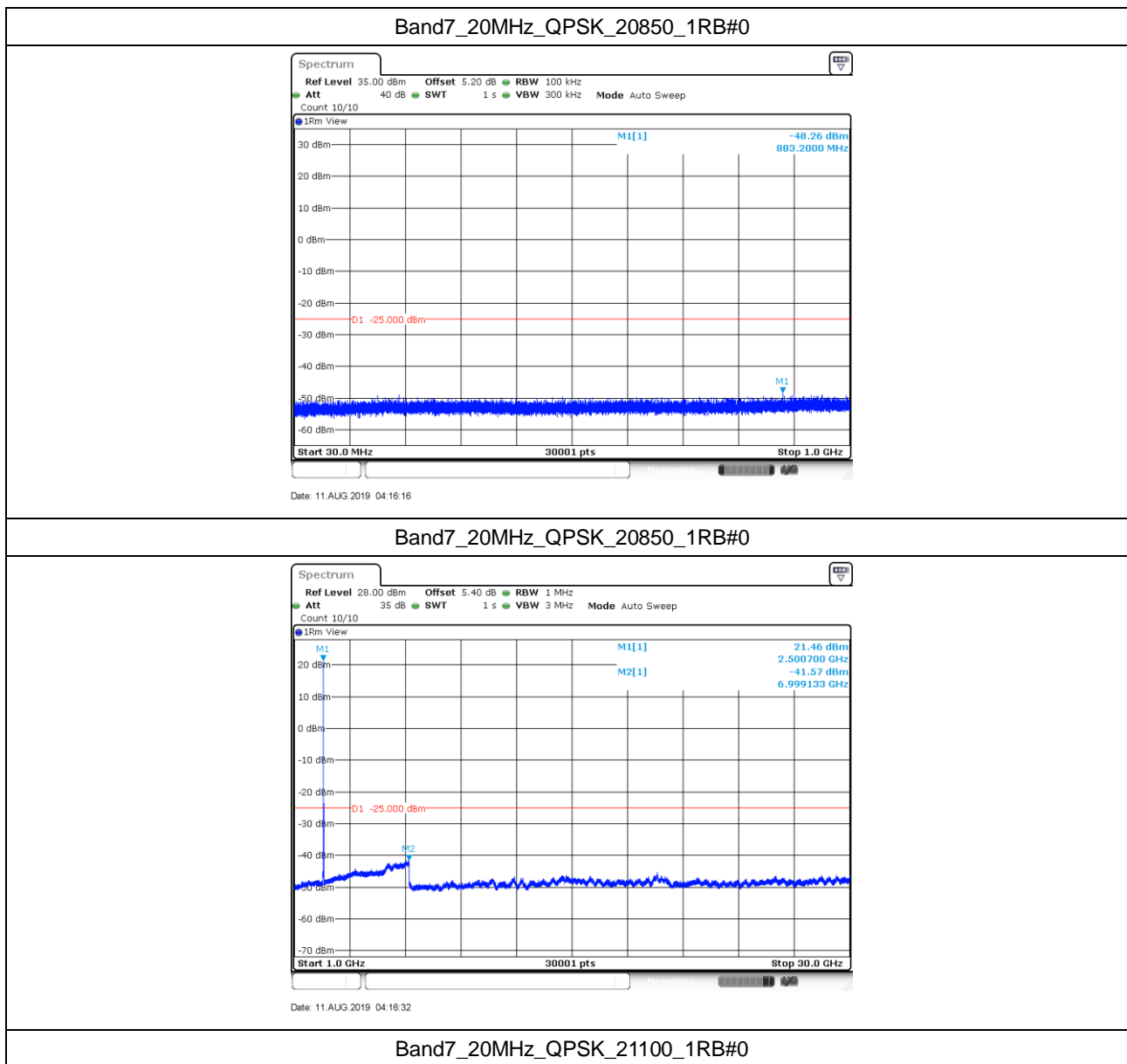
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6. Spurious Emission at Antenna Terminal

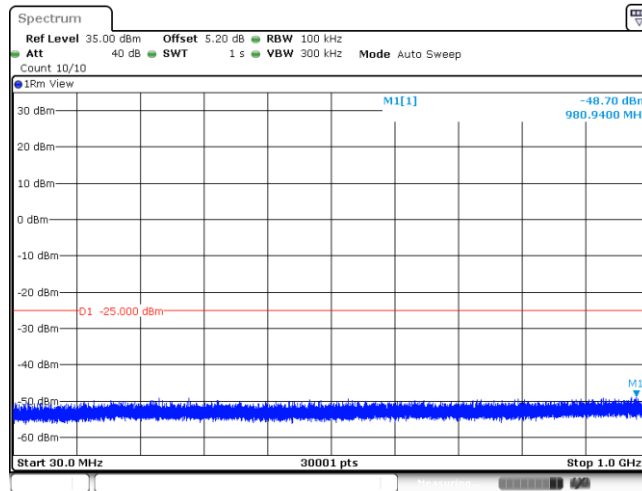
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

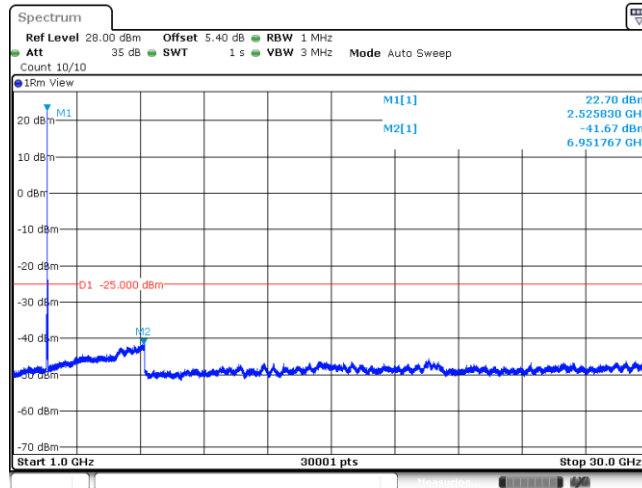


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Date: 11 AUG.2019 04:17:27

Band7_20MHz_QPSK_21100_1RB#0

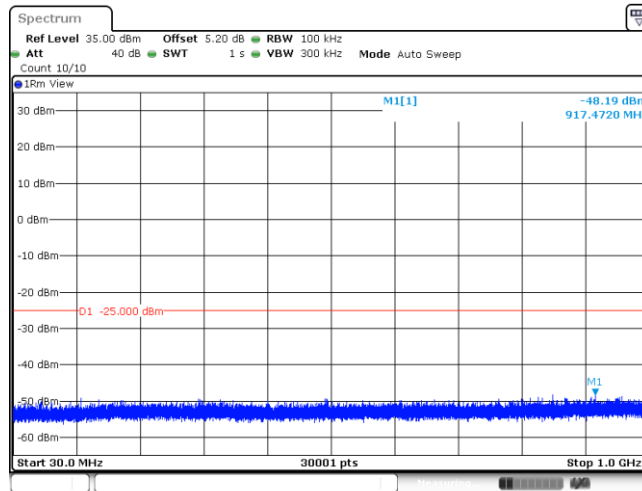


Date: 11 AUG.2019 04:17:44

Band7_20MHz_QPSK_21350_1RB#0

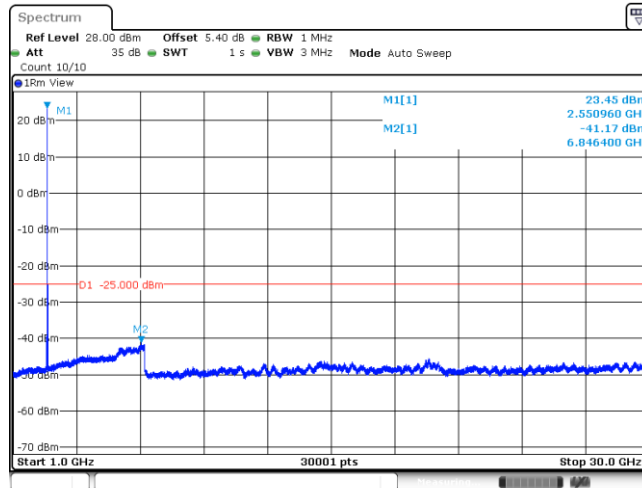


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Date: 11 AUG.2019 04:18:38

Band7_20MHz_QPSK_21350_1RB#0

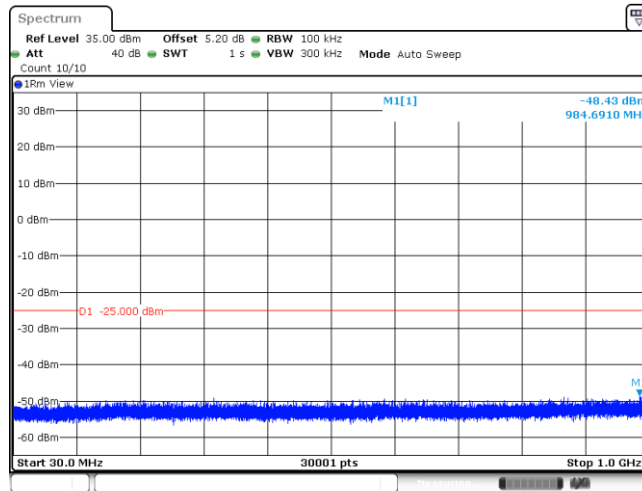


Date: 11 AUG.2019 04:18:55

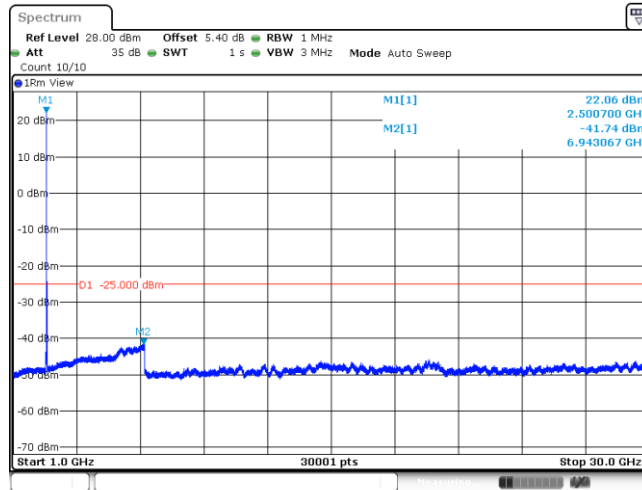
Band7_20MHz_16QAM_20850_1RB#0



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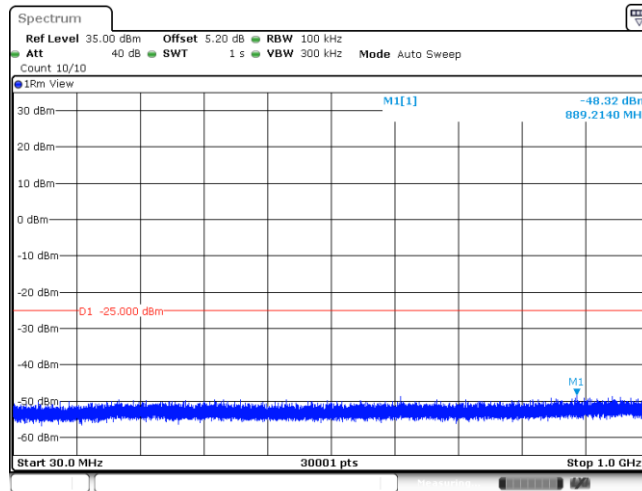
Band7_20MHz_16QAM_20850_1RB#0



Band7_20MHz_16QAM_21100_1RB#0

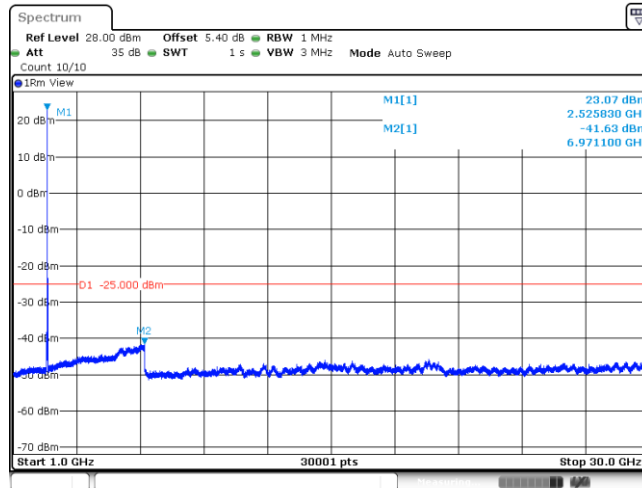


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Date: 11 AUG.2019 04:18:02

Band7_20MHz_16QAM_21100_1RB#0

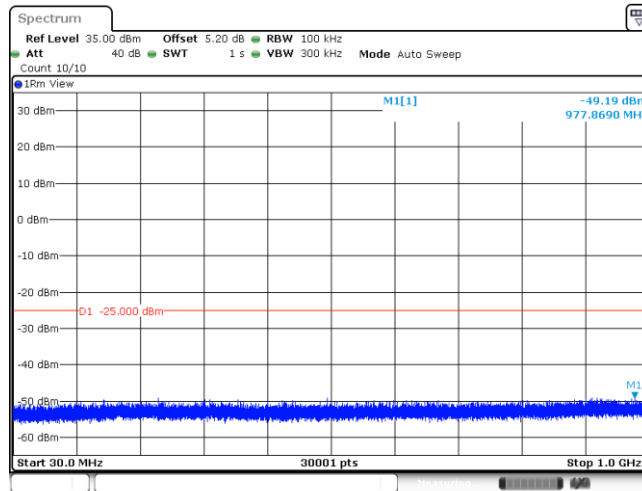


Date: 11 AUG.2019 04:18:19

Band7_20MHz_16QAM_21350_1RB#0

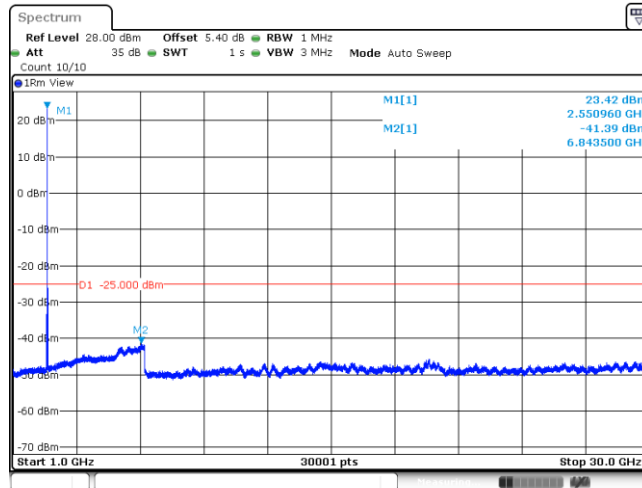


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Date: 11 AUG.2019 04:19:14

Band7_20MHz_16QAM_21350_1RB#0



Date: 11 AUG.2019 04:19:31



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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
106.4398	-66.55	-25.00	41.55	Vertical
825.1488	-63.08	-25.00	38.08	Vertical
2992.7986	-39.18	-25.00	14.18	Vertical
7320.7728	-55.49	-25.00	30.49	Vertical
15006.4803	-35.22	-25.00	10.22	Vertical
17998.1999	-34.88	-25.00	9.88	Vertical
41.5921	-65.74	-25.00	40.74	Horizontal
755.8873	-62.76	-25.00	37.76	Horizontal
2949.5899	-39.35	-25.00	14.35	Horizontal
7503.7802	-50.74	-25.00	25.74	Horizontal
16400.9360	-39.84	-25.00	14.84	Horizontal
17999.4000	-39.47	-25.00	14.47	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.5326	-65.70	-25.00	40.70	Vertical
827.8649	-62.86	-25.00	37.86	Vertical
2988.7978	-39.43	-25.00	14.43	Vertical
7578.1831	-48.33	-25.00	23.33	Vertical
15156.4863	-38.82	-25.00	13.82	Vertical
17895.5958	-36.92	-25.00	11.92	Vertical
42.5621	-65.05	-25.00	40.05	Horizontal
236.8628	-68.90	-25.00	43.90	Horizontal
2945.5891	-39.50	-25.00	14.50	Horizontal
7578.1831	-52.95	-25.00	27.95	Horizontal
16399.7360	-40.33	-25.00	15.33	Horizontal
17996.9999	-39.52	-25.00	14.52	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
115.5098	-65.80	-25.00	40.80	Vertical
751.3281	-62.61	-25.00	37.61	Vertical
2991.1982	-39.19	-25.00	14.19	Vertical
7653.1861	-50.98	-25.00	25.98	Vertical
15306.4923	-37.68	-25.00	12.68	Vertical
17987.9995	-34.11	-25.00	9.11	Vertical
41.0101	-65.87	-25.00	40.87	Horizontal
236.3778	-68.12	-25.00	43.12	Horizontal
2930.7862	-39.99	-25.00	14.99	Horizontal
7653.1861	-53.84	-25.00	28.84	Horizontal
16403.3361	-40.52	-25.00	15.52	Horizontal
17994.5998	-39.54	-25.00	14.54	Horizontal

Remark:

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



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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	6.60	0.002629	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	1.00	0.000398	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	2.30	0.000916	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	3.90	0.001538	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-5.10	-0.002012	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-8.50	-0.003353	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-16.10	-0.006289	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-13.50	-0.005273	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-6.10	-0.002383	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-2.90	-0.001155	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-3.70	-0.001474	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-12.80	-0.005100	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-12.10	-0.004773	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-1.00	-0.000394	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	2.50	0.000986	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-13.70	-0.005352	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-4.80	-0.001875	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-6.40	-0.002500	±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	-4.80	-0.001912	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-11.40	-0.004542	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	5.00	0.001992	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	4.70	0.001873	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-12.20	-0.004861	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-10.90	-0.004343	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-12.00	-0.004781	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-2.90	-0.001155	±2.5	PASS



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Band7	20MHz	QPSK	21100	100RB#0	NV	-30	3.90	0.001538	±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	0	-12.10	-0.004773	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-5.30	-0.002091	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	4.50	0.001775	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-1.90	-0.000750	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	2.40	0.000947	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-1.50	-0.000592	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-15.10	-0.005898	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-5.00	-0.001953	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-15.10	-0.005898	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-14.40	-0.005625	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-8.20	-0.003203	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-4.70	-0.001836	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-13.00	-0.005078	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-12.80	-0.005000	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-6.90	-0.002749	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	-2.60	-0.001036	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-14.30	-0.005697	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-2.80	-0.001116	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-5.90	-0.002351	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	6.40	0.002550	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	-1.50	-0.000598	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	5.40	0.002151	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-9.60	-0.003787	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-0.40	-0.000158	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-3.80	-0.001499	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-0.70	-0.000276	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-6.70	-0.002643	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-7.30	-0.002880	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-4.70	-0.001854	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-4.40	-0.001736	±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	-13.70	-0.005352	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-16.50	-0.006445	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-4.90	-0.001914	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-5.30	-0.002070	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-5.00	-0.001953	±2.5	PASS



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Band7	20MHz	16QAM	21350	100RB#0	NV	40	-9.80	-0.003828	± 2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-16.40	-0.006406	± 2.5	PASS

The End



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