

# Appendix B

## E-UTRA BAND 41



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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

2. BA ND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	22.74	24.74	33.00	PASS
				1RB#12	22.65	24.65	33.00	PASS
				1RB#24	22.56	24.56	33.00	PASS
				12RB#0	21.68	23.68	33.00	PASS
				12RB#6	21.74	23.74	33.00	PASS
				12RB#13	21.68	23.68	33.00	PASS
				25RB#0	21.77	23.77	33.00	PASS
			40620	1RB#0	22.85	24.85	33.00	PASS
				1RB#12	22.80	24.80	33.00	PASS
				1RB#24	22.73	24.73	33.00	PASS
				12RB#0	21.80	23.80	33.00	PASS
				12RB#6	21.77	23.77	33.00	PASS
				12RB#13	21.77	23.77	33.00	PASS
				25RB#0	21.85	23.85	33.00	PASS
			41565	1RB#0	22.98	24.98	33.00	PASS
				1RB#12	22.86	24.86	33.00	PASS
				1RB#24	22.79	24.79	33.00	PASS
				12RB#0	21.96	23.96	33.00	PASS
				12RB#6	21.96	23.96	33.00	PASS
				12RB#13	21.94	23.94	33.00	PASS
				25RB#0	21.91	23.91	33.00	PASS



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BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	64QAM	39675	1RB#0	21.39	23.39	33.00	PASS
				1RB#12	21.16	23.16	33.00	PASS
				1RB#24	21.08	23.08	33.00	PASS
				12RB#0	20.07	22.07	33.00	PASS
				12RB#6	20.20	22.20	33.00	PASS
				12RB#13	20.03	22.03	33.00	PASS
				25RB#0	20.07	22.07	33.00	PASS
			40620	1RB#0	21.35	23.35	33.00	PASS
				1RB#12	21.34	23.34	33.00	PASS
				1RB#24	21.32	23.32	33.00	PASS
				12RB#0	20.21	22.21	33.00	PASS
				12RB#6	20.08	22.08	33.00	PASS
				12RB#13	20.15	22.15	33.00	PASS
				25RB#0	20.05	22.05	33.00	PASS
			41565	1RB#0	21.56	23.56	33.00	PASS
				1RB#12	21.44	23.44	33.00	PASS
				1RB#24	21.45	23.45	33.00	PASS
				12RB#0	20.41	22.41	33.00	PASS
				12RB#6	20.38	22.38	33.00	PASS
				12RB#13	20.22	22.22	33.00	PASS
				25RB#0	20.21	22.21	33.00	PASS



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BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	16QAM	39675	1RB#0	22.04	24.04	33.00	PASS
				1RB#12	21.94	23.94	33.00	PASS
				1RB#24	21.82	23.82	33.00	PASS
				12RB#0	20.79	22.79	33.00	PASS
				12RB#6	20.89	22.89	33.00	PASS
				12RB#13	20.79	22.79	33.00	PASS
				25RB#0	20.72	22.72	33.00	PASS
			40620	1RB#0	22.13	24.13	33.00	PASS
				1RB#12	22.12	24.12	33.00	PASS
				1RB#24	22.05	24.05	33.00	PASS
				12RB#0	20.86	22.86	33.00	PASS
				12RB#6	20.87	22.87	33.00	PASS
				12RB#13	20.84	22.84	33.00	PASS
				25RB#0	20.80	22.80	33.00	PASS
			41565	1RB#0	22.27	24.27	33.00	PASS
				1RB#12	22.13	24.13	33.00	PASS
				1RB#24	22.08	24.08	33.00	PASS
				12RB#0	21.05	23.05	33.00	PASS
				12RB#6	21.04	23.04	33.00	PASS
				12RB#13	21.01	23.01	33.00	PASS
				25RB#0	20.91	22.91	33.00	PASS



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BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	10MHz	QPSK	39700	1RB#0	22.93	24.93	33.00	PASS
				1RB#24	22.48	24.48	33.00	PASS
				1RB#49	22.54	24.54	33.00	PASS
				25RB#0	21.81	23.81	33.00	PASS
				25RB#12	21.74	23.74	33.00	PASS
				25RB#25	21.74	23.74	33.00	PASS
			40620	50RB#0	21.77	23.77	33.00	PASS
				1RB#0	23.01	25.01	33.00	PASS
				1RB#24	22.69	24.69	33.00	PASS
				1RB#49	22.72	24.72	33.00	PASS
				25RB#0	21.91	23.91	33.00	PASS
				25RB#12	21.80	23.80	33.00	PASS
			41540	25RB#25	21.85	23.85	33.00	PASS
				50RB#0	21.85	23.85	33.00	PASS
				1RB#0	23.05	25.05	33.00	PASS
				1RB#24	22.84	24.84	33.00	PASS
				1RB#49	22.83	24.83	33.00	PASS
				25RB#0	22.05	24.05	33.00	PASS
				25RB#12	22.02	24.02	33.00	PASS
				25RB#25	21.94	23.94	33.00	PASS
			50RB#0	22.06	24.06	33.00	PASS	



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BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	10MHz	64QAM	39700	1RB#0	21.44	23.44	33.00	PASS
				1RB#24	21.07	23.07	33.00	PASS
				1RB#49	21.20	23.20	33.00	PASS
				25RB#0	20.19	22.19	33.00	PASS
				25RB#12	20.01	22.01	33.00	PASS
				25RB#25	19.93	21.93	33.00	PASS
				50RB#0	20.07	22.07	33.00	PASS
			40620	1RB#0	21.57	23.57	33.00	PASS
				1RB#24	21.27	23.27	33.00	PASS
				1RB#49	21.39	23.39	33.00	PASS
				25RB#0	20.13	22.13	33.00	PASS
				25RB#12	20.03	22.03	33.00	PASS
				25RB#25	20.17	22.17	33.00	PASS
				50RB#0	20.04	22.04	33.00	PASS
			41540	1RB#0	21.62	23.62	33.00	PASS
				1RB#24	21.30	23.30	33.00	PASS
				1RB#49	21.30	23.30	33.00	PASS
				25RB#0	20.31	22.31	33.00	PASS
				25RB#12	20.30	22.30	33.00	PASS
				25RB#25	20.21	22.21	33.00	PASS
				50RB#0	20.27	22.27	33.00	PASS



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BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	10MHz	16QAM	39700	1RB#0	22.13	24.13	33.00	PASS
				1RB#24	21.87	23.87	33.00	PASS
				1RB#49	21.84	23.84	33.00	PASS
				25RB#0	20.80	22.80	33.00	PASS
				25RB#12	20.67	22.67	33.00	PASS
				25RB#25	20.65	22.65	33.00	PASS
			40620	50RB#0	20.77	22.77	33.00	PASS
				1RB#0	22.28	24.28	33.00	PASS
				1RB#24	21.95	23.95	33.00	PASS
				1RB#49	22.05	24.05	33.00	PASS
				25RB#0	20.84	22.84	33.00	PASS
				25RB#12	20.78	22.78	33.00	PASS
			41540	25RB#25	20.79	22.79	33.00	PASS
				50RB#0	20.84	22.84	33.00	PASS
				1RB#0	22.32	24.32	33.00	PASS
				1RB#24	22.06	24.06	33.00	PASS
				1RB#49	22.08	24.08	33.00	PASS
				25RB#0	20.99	22.99	33.00	PASS
				25RB#12	21.00	23.00	33.00	PASS
				25RB#25	20.85	22.85	33.00	PASS
			50RB#0	21.06	23.06	33.00	PASS	



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BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	15MHz	QPSK	39725	1RB#0	23.10	25.10	33.00	PASS
				1RB#38	22.52	24.52	33.00	PASS
				1RB#74	22.59	24.59	33.00	PASS
				36RB#0	21.93	23.93	33.00	PASS
				36RB#18	21.73	23.73	33.00	PASS
				36RB#39	21.62	23.62	33.00	PASS
				75RB#0	21.78	23.78	33.00	PASS
			40620	1RB#0	23.22	25.22	33.00	PASS
				1RB#38	22.78	24.78	33.00	PASS
				1RB#74	22.85	24.85	33.00	PASS
				36RB#0	22.06	24.06	33.00	PASS
				36RB#18	21.81	23.81	33.00	PASS
				36RB#39	21.85	23.85	33.00	PASS
				75RB#0	22.00	24.00	33.00	PASS
			41515	1RB#0	23.36	25.36	33.00	PASS
				1RB#38	22.83	24.83	33.00	PASS
				1RB#74	23.08	25.08	33.00	PASS
				36RB#0	22.20	24.20	33.00	PASS
				36RB#18	21.97	23.97	33.00	PASS
				36RB#39	21.93	23.93	33.00	PASS
				75RB#0	22.10	24.10	33.00	PASS



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BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	15MHz	64QAM	39725	1RB#0	21.86	23.86	33.00	PASS
				1RB#38	21.15	23.15	33.00	PASS
				1RB#74	21.38	23.38	33.00	PASS
				36RB#0	20.22	22.22	33.00	PASS
				36RB#18	20.10	22.10	33.00	PASS
				36RB#39	19.87	21.87	33.00	PASS
				75RB#0	20.22	22.22	33.00	PASS
			40620	1RB#0	22.03	24.03	33.00	PASS
				1RB#38	21.41	23.41	33.00	PASS
				1RB#74	21.64	23.64	33.00	PASS
				36RB#0	20.38	22.38	33.00	PASS
				36RB#18	20.16	22.16	33.00	PASS
				36RB#39	20.01	22.01	33.00	PASS
				75RB#0	20.22	22.22	33.00	PASS
			41515	1RB#0	22.27	24.27	33.00	PASS
				1RB#38	21.53	23.53	33.00	PASS
				1RB#74	21.65	23.65	33.00	PASS
				36RB#0	20.47	22.47	33.00	PASS
				36RB#18	20.31	22.31	33.00	PASS
				36RB#39	20.17	22.17	33.00	PASS
				75RB#0	20.35	22.35	33.00	PASS



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BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	15MHz	16QAM	39725	1RB#0	22.53	24.53	33.00	PASS
				1RB#38	21.94	23.94	33.00	PASS
				1RB#74	22.09	24.09	33.00	PASS
				36RB#0	20.92	22.92	33.00	PASS
				36RB#18	20.73	22.73	33.00	PASS
				36RB#39	20.63	22.63	33.00	PASS
				75RB#0	20.82	22.82	33.00	PASS
			40620	1RB#0	22.66	24.66	33.00	PASS
				1RB#38	22.12	24.12	33.00	PASS
				1RB#74	22.27	24.27	33.00	PASS
				36RB#0	21.04	23.04	33.00	PASS
				36RB#18	20.81	22.81	33.00	PASS
				36RB#39	20.81	22.81	33.00	PASS
				75RB#0	20.97	22.97	33.00	PASS
			41515	1RB#0	22.95	24.95	33.00	PASS
				1RB#38	22.19	24.19	33.00	PASS
				1RB#74	22.43	24.43	33.00	PASS
				36RB#0	21.17	23.17	33.00	PASS
				36RB#18	20.92	22.92	33.00	PASS
				36RB#39	20.94	22.94	33.00	PASS
				75RB#0	21.07	23.07	33.00	PASS



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BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	20MHz	QPSK	39750	1RB#0	23.41	25.41	33.00	PASS
				1RB#49	22.54	24.54	33.00	PASS
				1RB#99	22.86	24.86	33.00	PASS
				50RB#0	22.02	24.02	33.00	PASS
				50RB#25	21.68	23.68	33.00	PASS
				50RB#50	21.71	23.71	33.00	PASS
				100RB#0	21.87	23.87	33.00	PASS
			40620	1RB#0	23.51	25.51	33.00	PASS
				1RB#49	22.68	24.68	33.00	PASS
				1RB#99	23.05	25.05	33.00	PASS
				50RB#0	22.14	24.14	33.00	PASS
				50RB#25	21.86	23.86	33.00	PASS
				50RB#50	21.91	23.91	33.00	PASS
				100RB#0	21.98	23.98	33.00	PASS
			41490	1RB#0	23.72	25.72	33.00	PASS
				1RB#49	22.86	24.86	33.00	PASS
				1RB#99	23.15	25.15	33.00	PASS
				50RB#0	22.28	24.28	33.00	PASS
				50RB#25	22.02	24.02	33.00	PASS
				50RB#50	21.97	23.97	33.00	PASS
				100RB#0	22.17	24.17	33.00	PASS



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BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	20MHz	64QAM	39750	1RB#0	22.13	24.13	33.00	PASS
				1RB#49	21.19	23.19	33.00	PASS
				1RB#99	21.41	23.41	33.00	PASS
				50RB#0	20.49	22.49	33.00	PASS
				50RB#25	20.08	22.08	33.00	PASS
				50RB#50	20.03	22.03	33.00	PASS
				100RB#0	20.20	22.20	33.00	PASS
			40620	1RB#0	22.14	24.14	33.00	PASS
				1RB#49	21.18	23.18	33.00	PASS
				1RB#99	21.66	23.66	33.00	PASS
				50RB#0	20.50	22.50	33.00	PASS
				50RB#25	20.16	22.16	33.00	PASS
				50RB#50	20.29	22.29	33.00	PASS
				100RB#0	20.39	22.39	33.00	PASS
			41490	1RB#0	22.33	24.33	33.00	PASS
				1RB#49	21.41	23.41	33.00	PASS
				1RB#99	21.65	23.65	33.00	PASS
				50RB#0	20.74	22.74	33.00	PASS
				50RB#25	20.25	22.25	33.00	PASS
				50RB#50	20.27	22.27	33.00	PASS
				100RB#0	20.59	22.59	33.00	PASS



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BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	20MHz	16QAM	39750	1RB#0	22.74	24.74	33.00	PASS
				1RB#49	21.81	23.81	33.00	PASS
				1RB#99	22.13	24.13	33.00	PASS
				50RB#0	21.10	23.10	33.00	PASS
				50RB#25	20.77	22.77	33.00	PASS
				50RB#50	20.78	22.78	33.00	PASS
			40620	100RB#0	20.87	22.87	33.00	PASS
				1RB#0	22.92	24.92	33.00	PASS
				1RB#49	21.95	23.95	33.00	PASS
				1RB#99	22.41	24.41	33.00	PASS
				50RB#0	21.20	23.20	33.00	PASS
				50RB#25	20.85	22.85	33.00	PASS
			41490	50RB#50	20.91	22.91	33.00	PASS
				100RB#0	21.02	23.02	33.00	PASS
				1RB#0	22.96	24.96	33.00	PASS
				1RB#49	22.12	24.12	33.00	PASS
				1RB#99	22.32	24.32	33.00	PASS
				50RB#0	21.35	23.35	33.00	PASS
			41490	50RB#25	21.05	23.05	33.00	PASS
				50RB#50	20.99	22.99	33.00	PASS
				100RB#0	21.21	23.21	33.00	PASS

**Remark:**

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

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



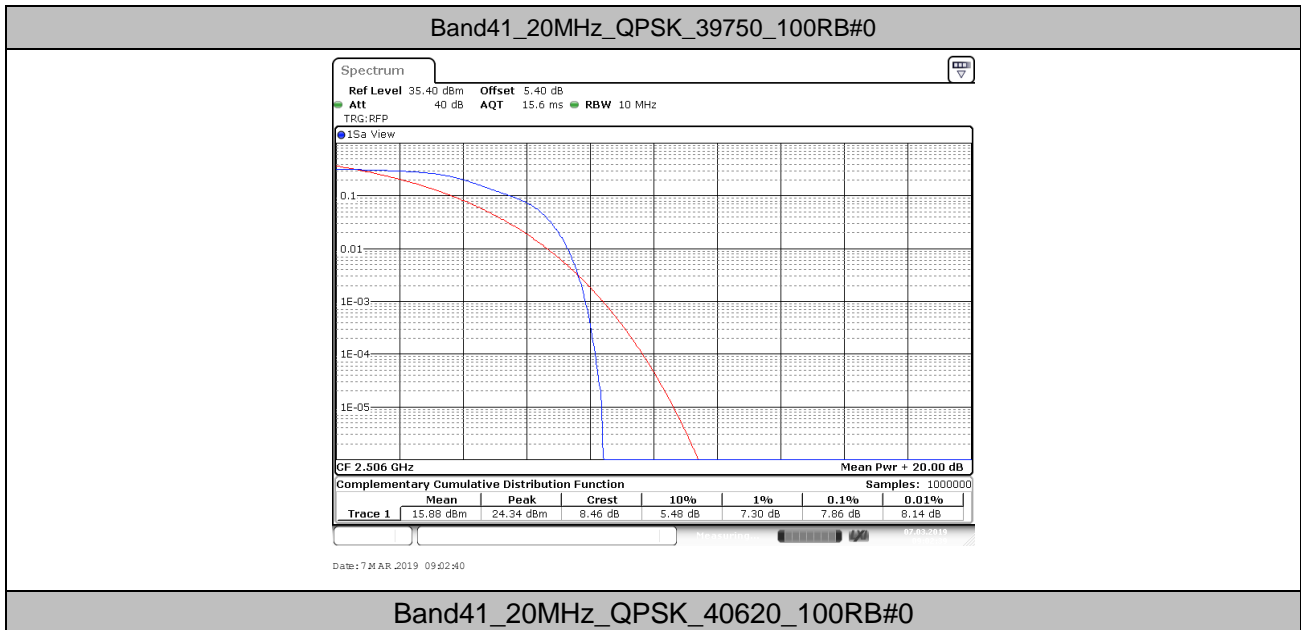
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1 Test Result

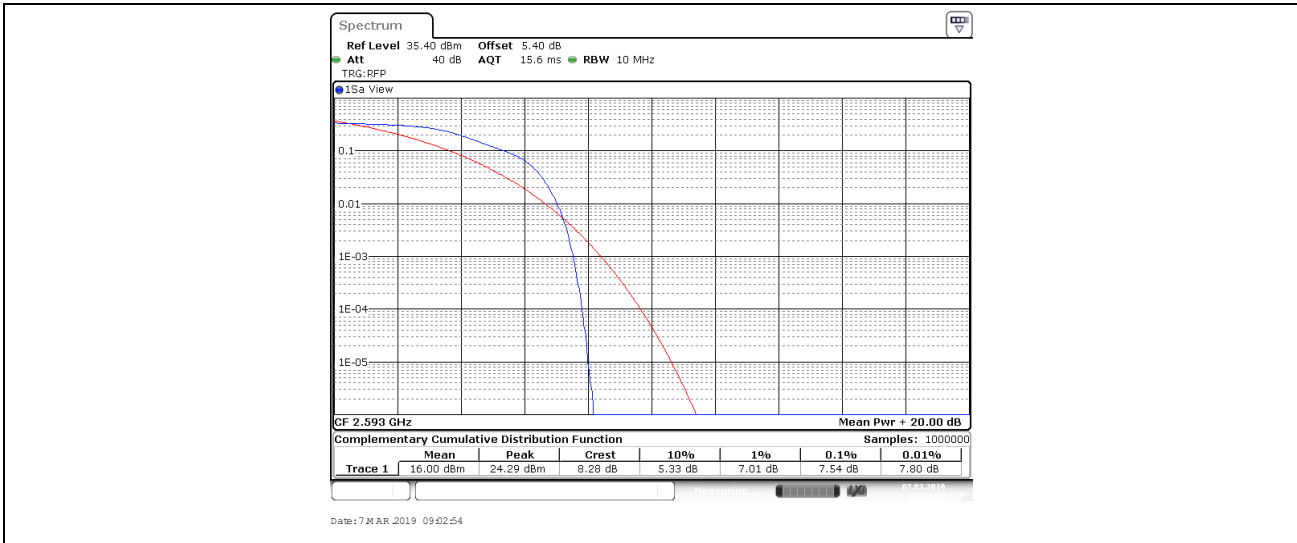
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	7.86	13	PASS
			40620	100RB#0	7.54	13	PASS
			41490	100RB#0	7.54	13	PASS
		64QAM	39750	100RB#0	7.65	13	PASS
			40620	100RB#0	7.54	13	PASS
			41490	100RB#0	7.57	13	PASS
		16QAM	39750	100RB#0	9.45	13	PASS
			40620	100RB#0	9.13	13	PASS
			41490	100RB#0	9.16	13	PASS

### 2.2 Test Plots

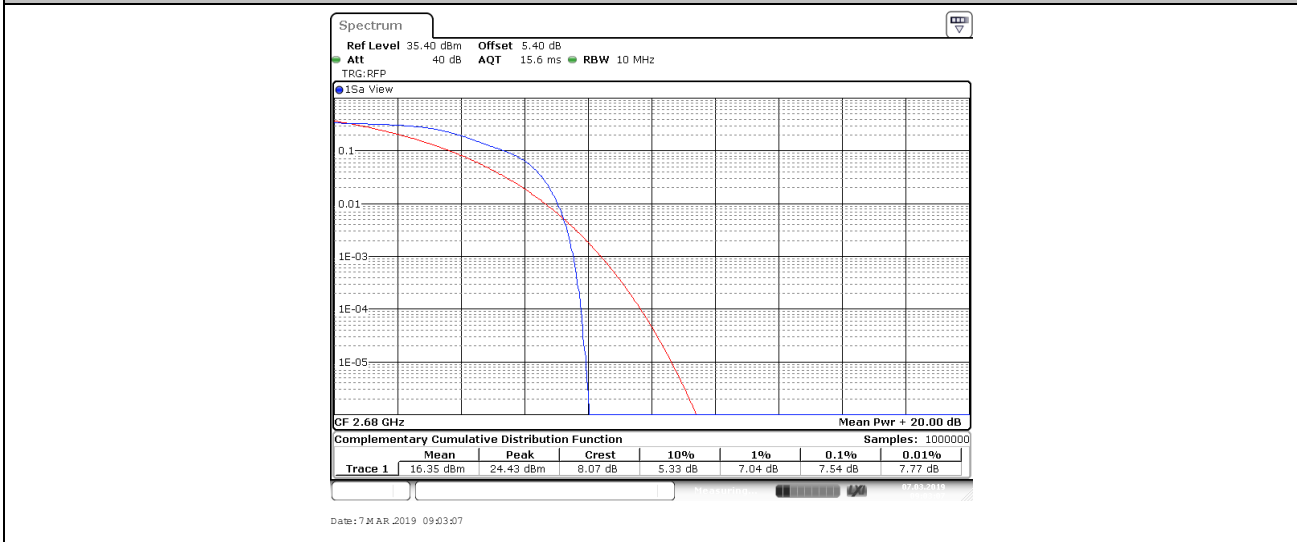


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**Band41\_20MHz\_QPSK\_41490\_100RB#0**

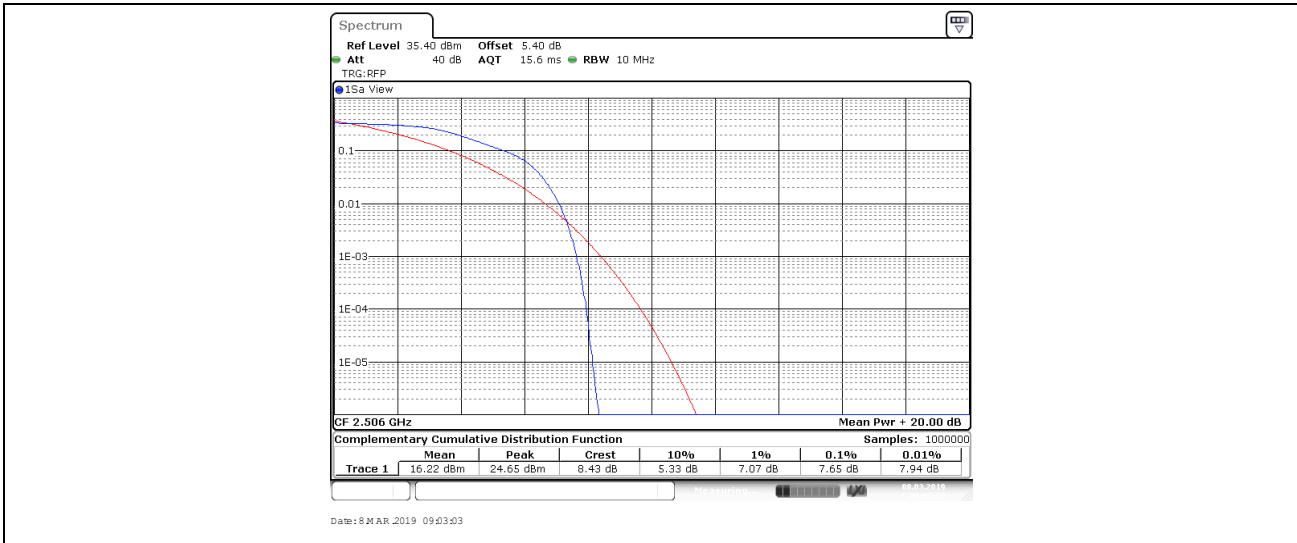


**Band41\_20MHz\_64QAM\_39750\_100RB#0**

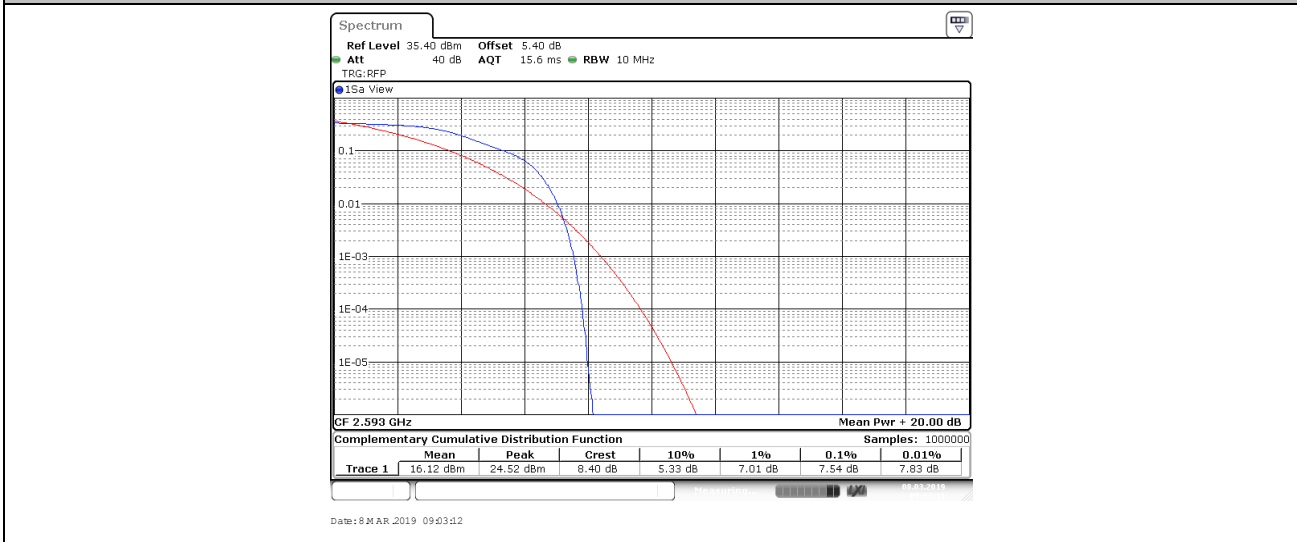


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**Band41\_20MHz\_64QAM\_40620\_100RB#0**

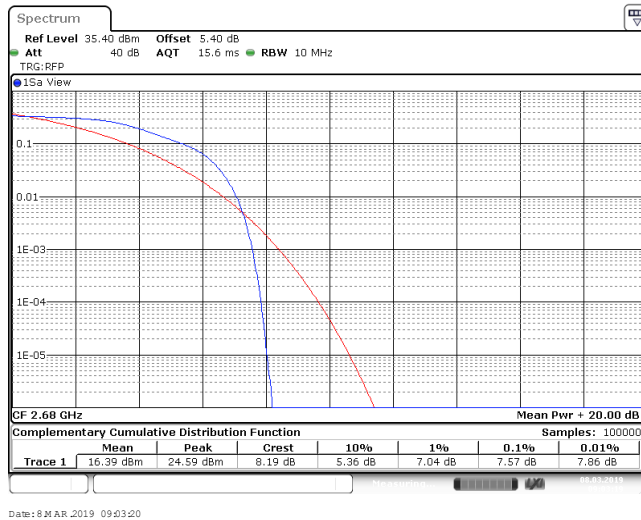


**Band41\_20MHz\_64QAM\_41490\_100RB#0**



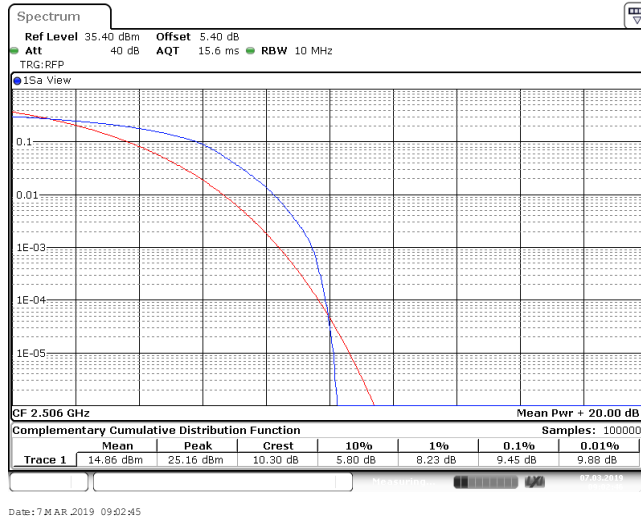
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Date: 8 MAR 2019 09:03:20

**Band41\_20MHz\_16QAM\_39750\_100RB#0**



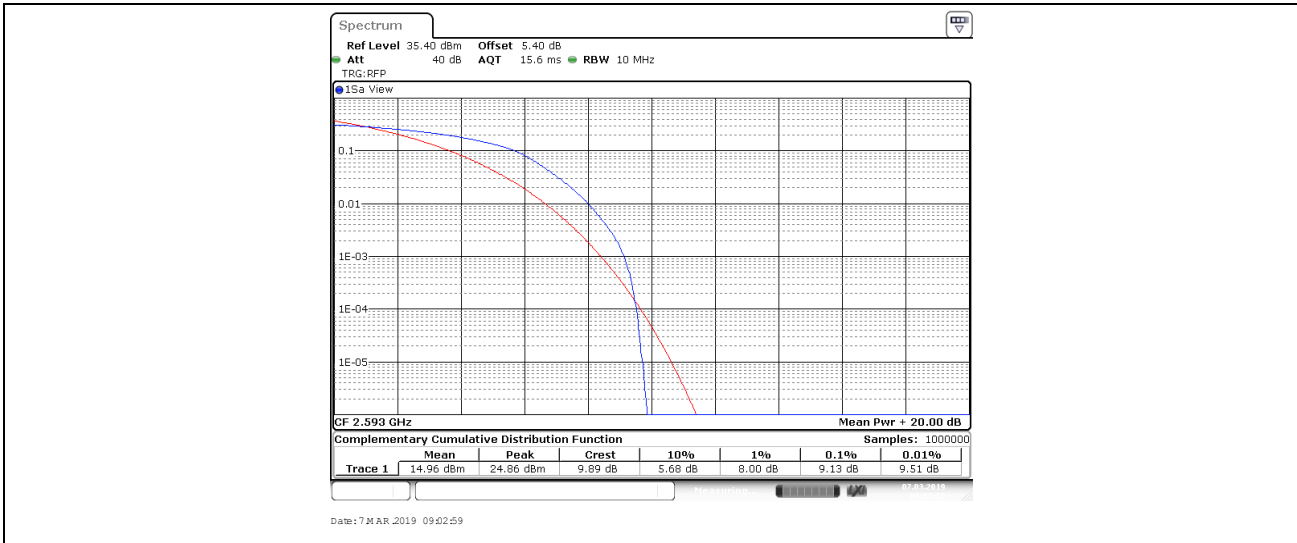
Date: 7 MAR 2019 09:02:45

**Band41\_20MHz\_16QAM\_40620\_100RB#0**

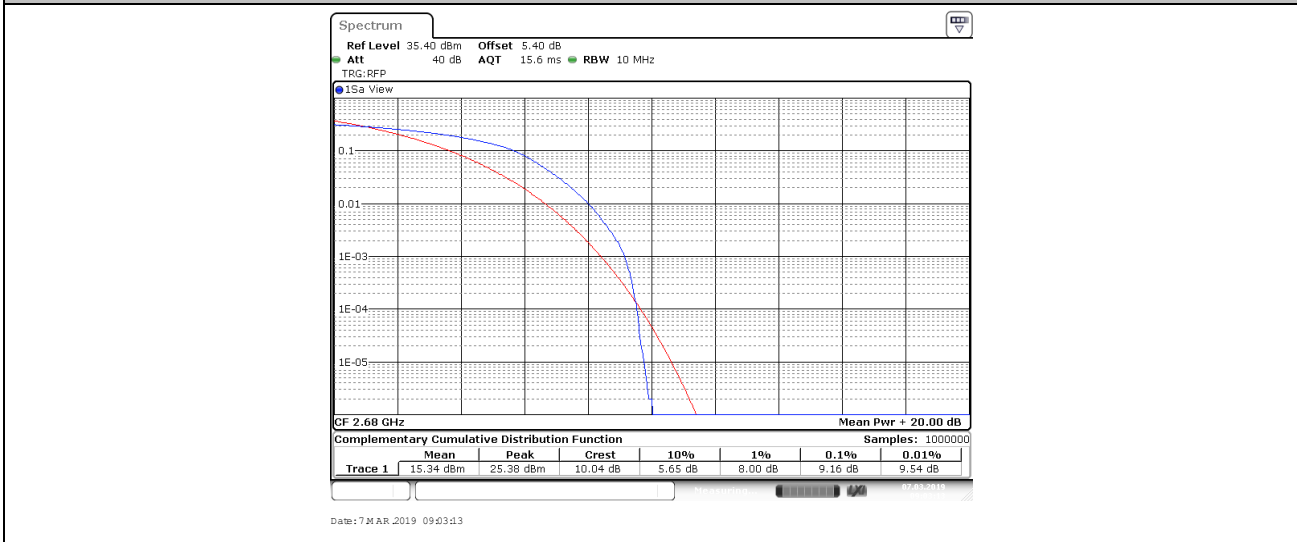


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**Band41\_20MHz\_16QAM\_41490\_100RB#0**



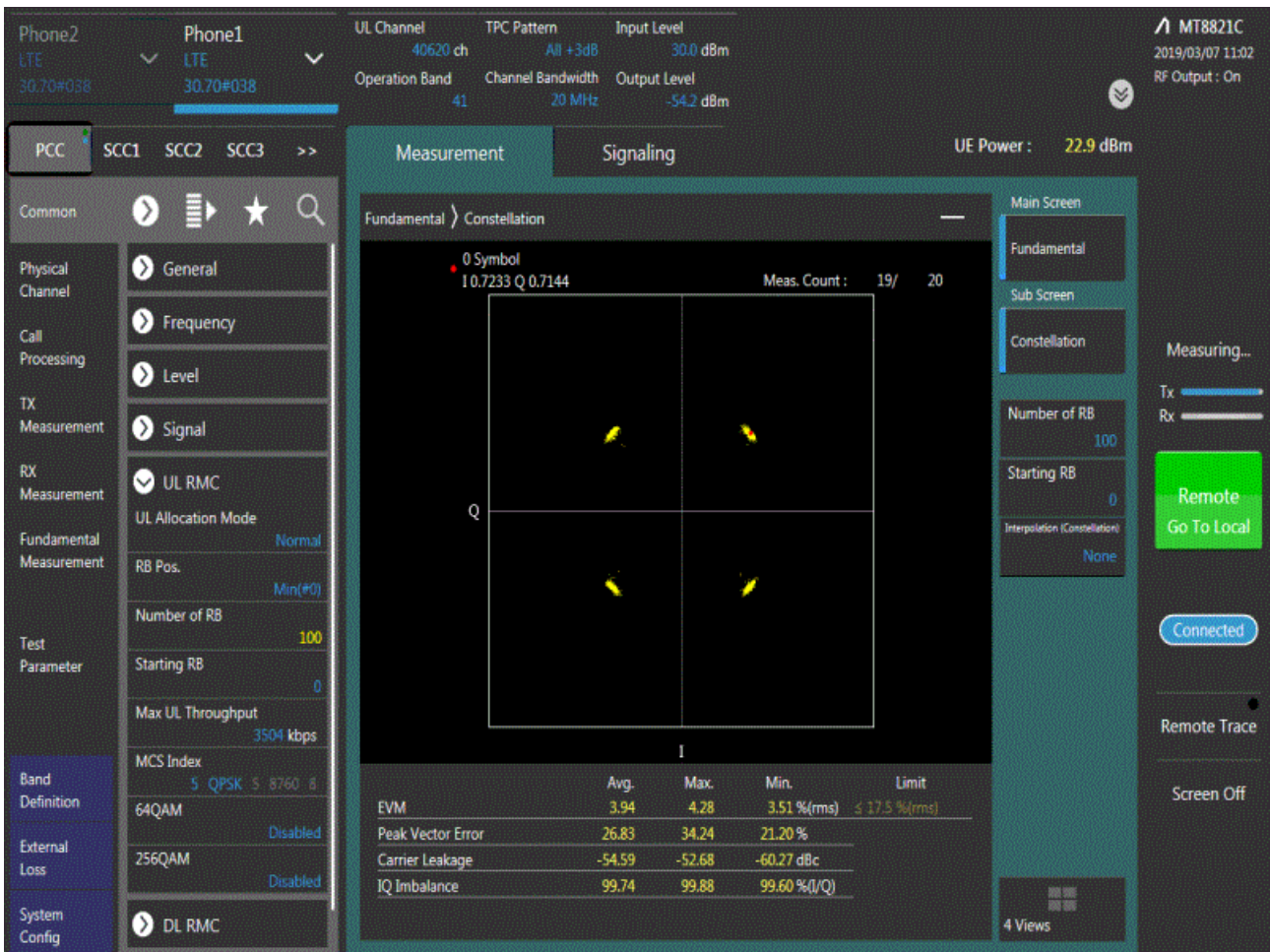
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### 3. Modulation Characteristics

#### 3.1 Test BAND = LTE BAND41

##### 3.1.1 Test Mode = LTE /TM1 20MHz

##### 3.1.1.1 Test Channel = MCH

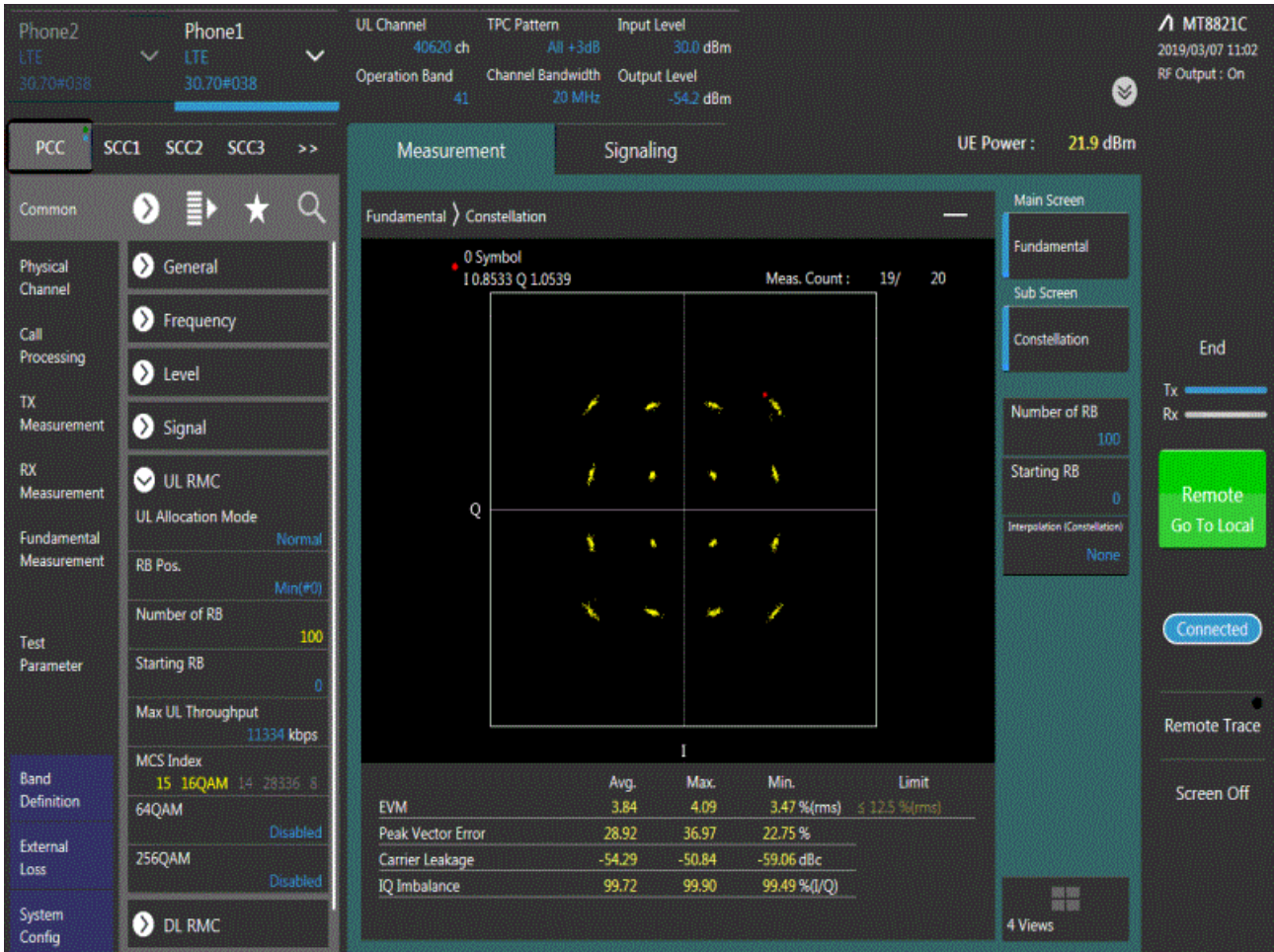


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### 3.1.2 Test Mode = LTE /TM2 20MHz

#### 3.1.2.1 Test Channel = MCH

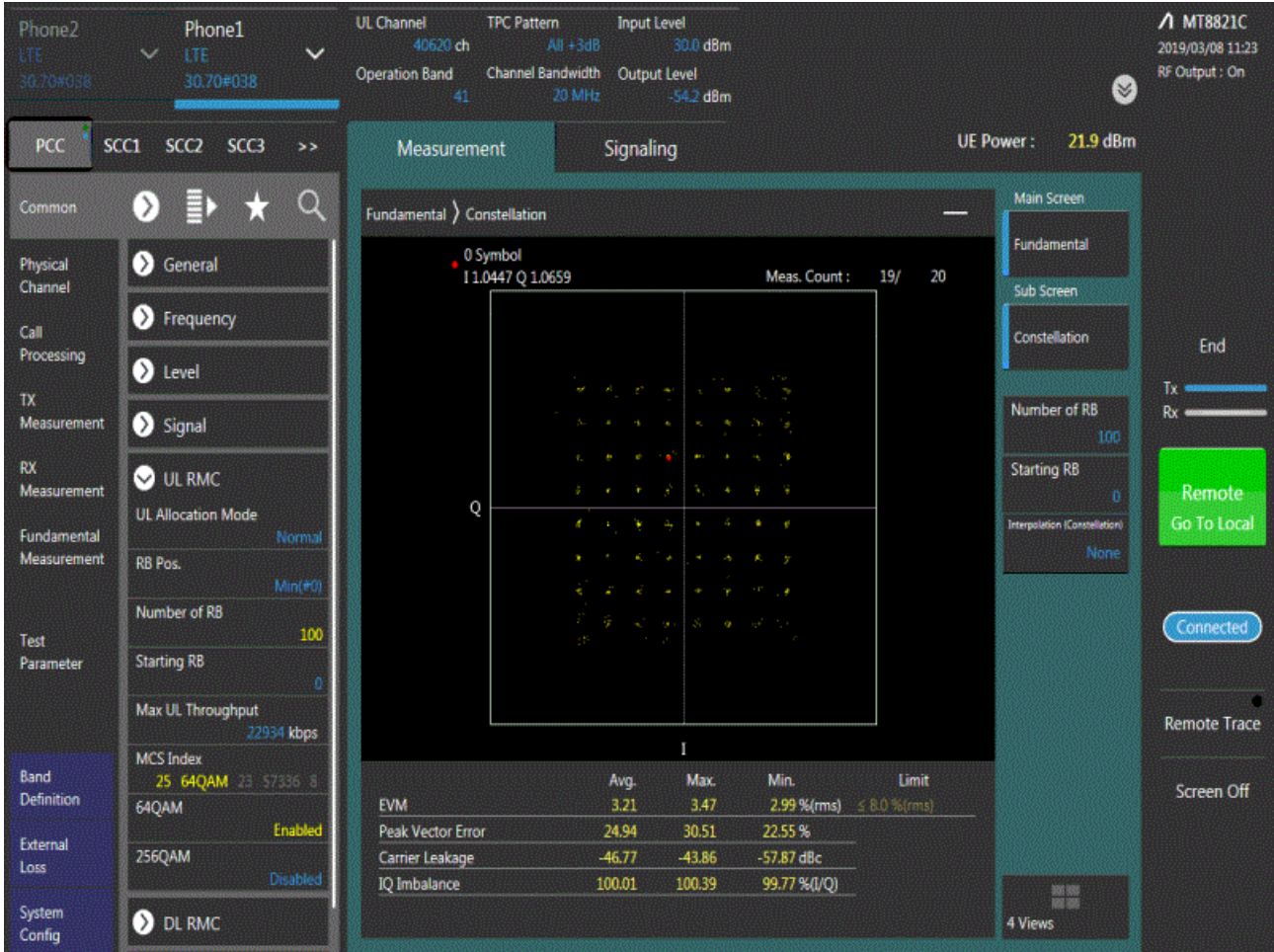


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### 3.1.3 Test Mode = LTE /TM3 20MHz

#### 3.1.3.1 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
Band41	5MHz	QPSK	39675	25RB#0	4.476	4.820	PASS
			40620	25RB#0	4.476	4.800	PASS
			41565	25RB#0	4.486	4.790	PASS
		64QAM	39675	25RB#0	4.476	4.830	PASS
			40620	25RB#0	4.466	4.800	PASS
			41565	25RB#0	4.466	4.840	PASS
		16QAM	39675	25RB#0	4.466	4.810	PASS
			40620	25RB#0	4.476	4.820	PASS
			41565	25RB#0	4.466	4.850	PASS
	10MHz	QPSK	39700	50RB#0	8.951	9.420	PASS
			40620	50RB#0	8.931	9.480	PASS
			41540	50RB#0	8.931	9.480	PASS
		64QAM	39700	50RB#0	8.931	9.480	PASS
			40620	50RB#0	8.931	9.440	PASS
			41540	50RB#0	8.911	9.380	PASS
		16QAM	39700	50RB#0	8.951	9.420	PASS
			40620	50RB#0	8.911	9.360	PASS
			41540	50RB#0	8.951	9.400	PASS
	15MHz	QPSK	39725	75RB#0	13.487	14.340	PASS
			40620	75RB#0	13.487	14.340	PASS
			41515	75RB#0	13.487	14.370	PASS
		64QAM	39725	75RB#0	13.487	14.370	PASS
			40620	75RB#0	13.487	14.340	PASS
			41515	75RB#0	13.487	14.370	PASS
		16QAM	39725	75RB#0	13.457	14.340	PASS
			40620	75RB#0	13.487	14.400	PASS
			41515	75RB#0	13.487	14.370	PASS
	20MHz	QPSK	39750	100RB#0	17.902	18.920	PASS
			40620	100RB#0	17.902	18.880	PASS
			41490	100RB#0	17.902	18.880	PASS
		64QAM	39750	100RB#0	17.902	18.880	PASS



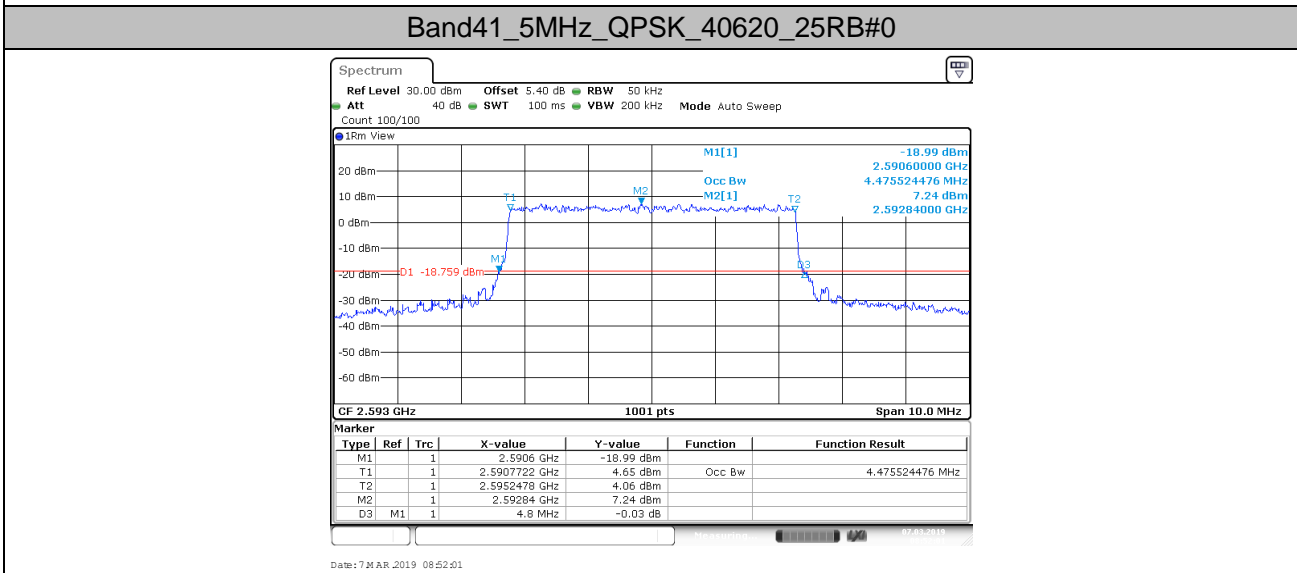
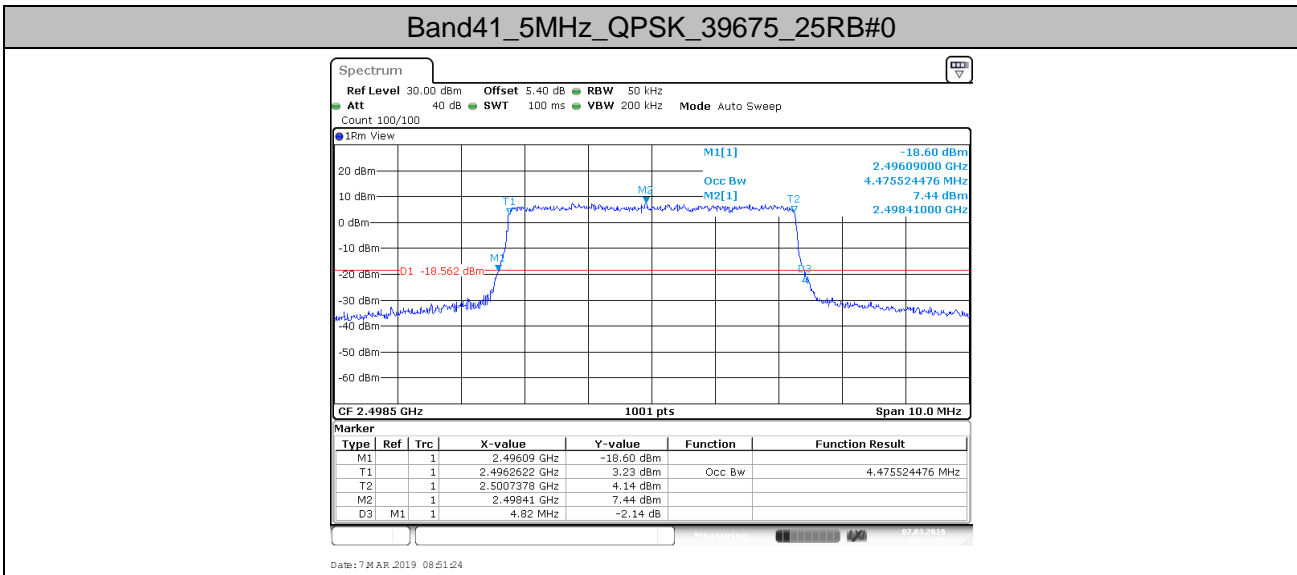
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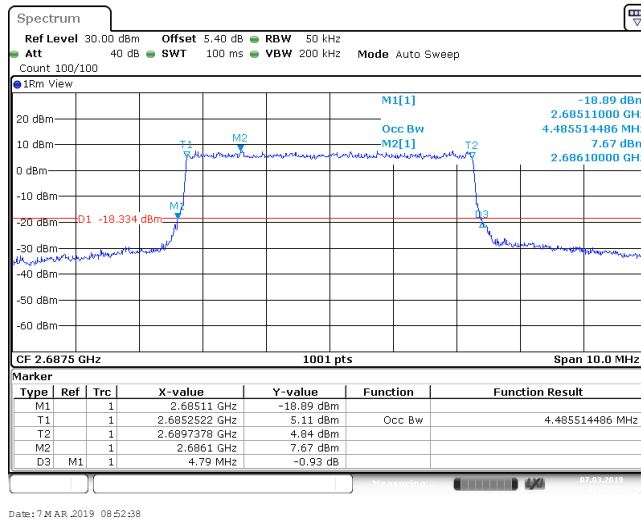
	16QAM	40620	100RB#0	17.902	18.880	PASS
		41490	100RB#0	17.902	18.880	PASS
		39750	100RB#0	17.902	18.920	PASS
		40620	100RB#0	17.902	18.840	PASS
		41490	100RB#0	17.902	18.800	PASS

### 4.2 Test Plots



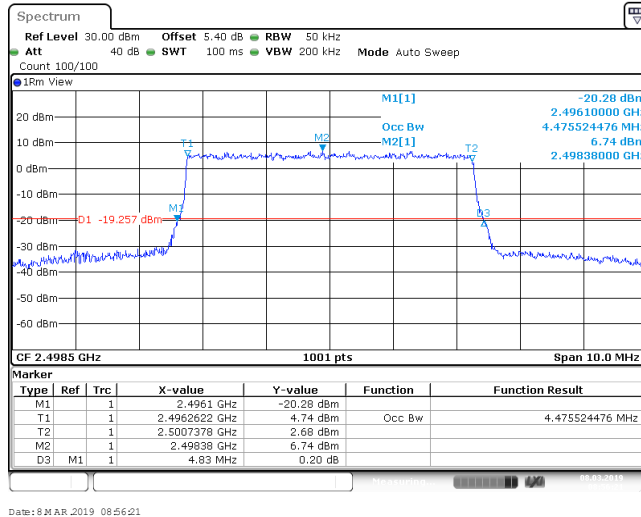
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Date: 7 MAR 2019 08:52:38

**Band41\_5MHz\_64QAM\_39675\_25RB#0**

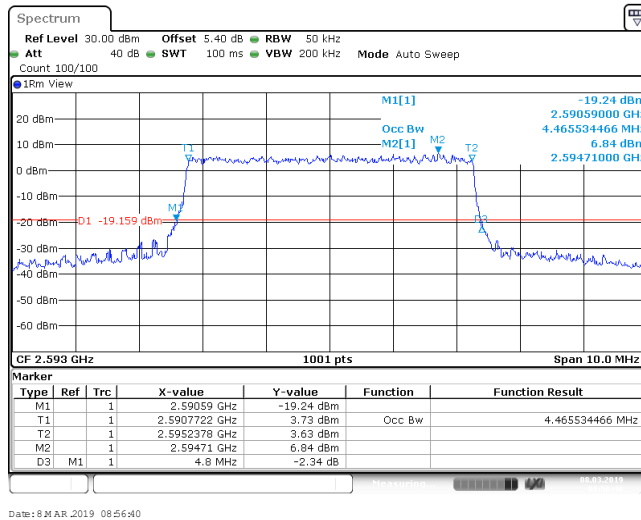


Date: 8 MAR 2019 08:56:21

**Band41\_5MHz\_64QAM\_40620\_25RB#0**

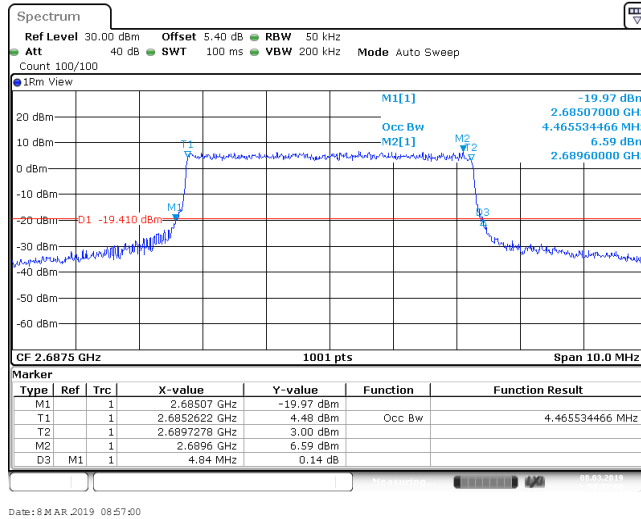


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Date: 8 MAR 2019 08:56:40

**Band41\_5MHz\_64QAM\_41565\_25RB#0**

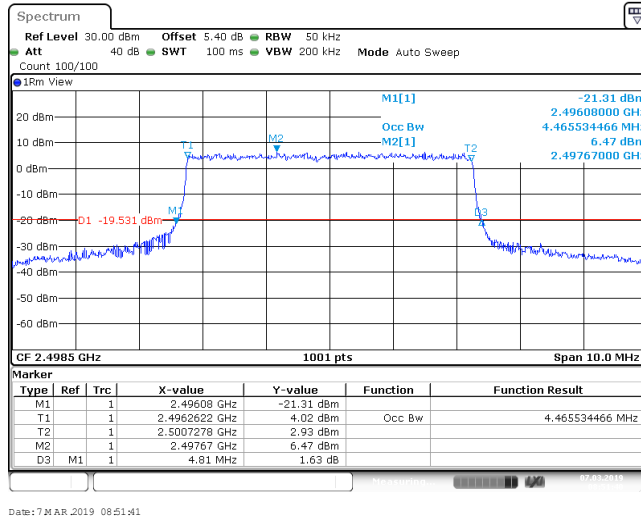


Date: 8 MAR 2019 08:57:00

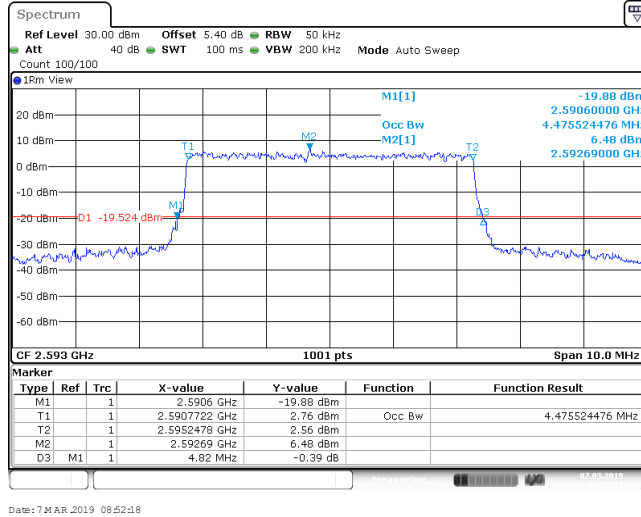
**Band41\_5MHz\_16QAM\_39675\_25RB#0**



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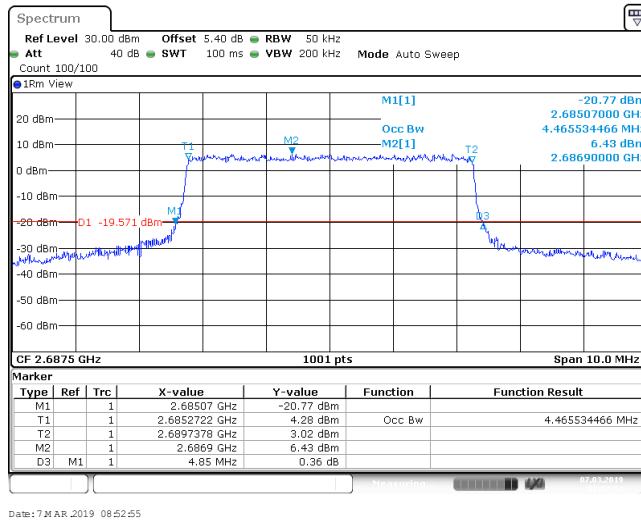
**Band41\_5MHz\_16QAM\_40620\_25RB#0**



**Band41\_5MHz\_16QAM\_41565\_25RB#0**

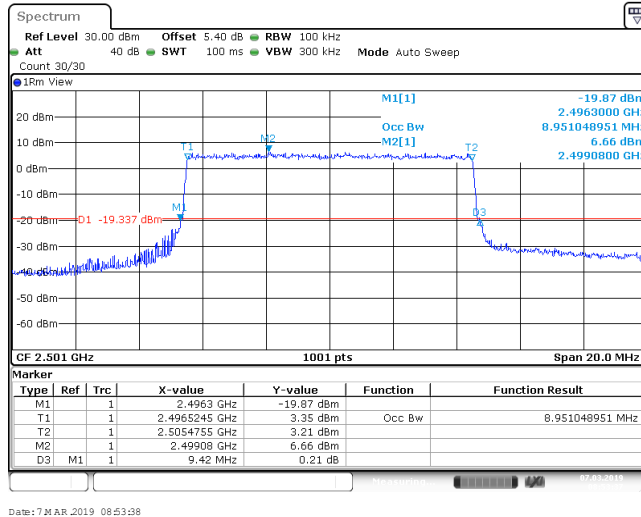


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Date: 7 MAR 2019 08:52:55

**Band41\_10MHz\_QPSK\_39700\_50RB#0**



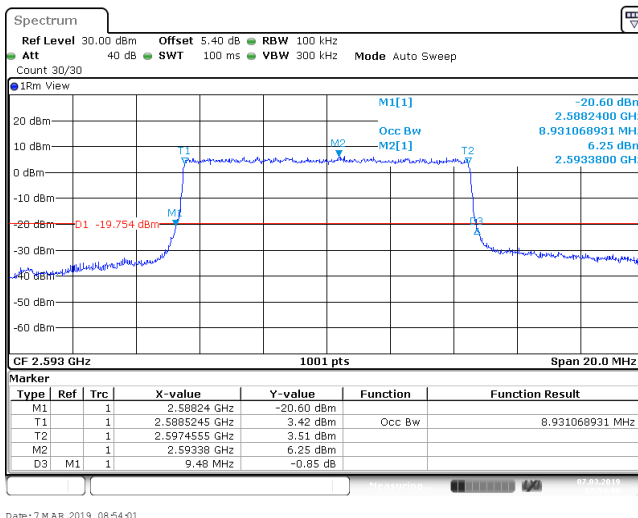
Date: 7 MAR 2019 08:53:38

**Band41\_10MHz\_QPSK\_40620\_50RB#0**



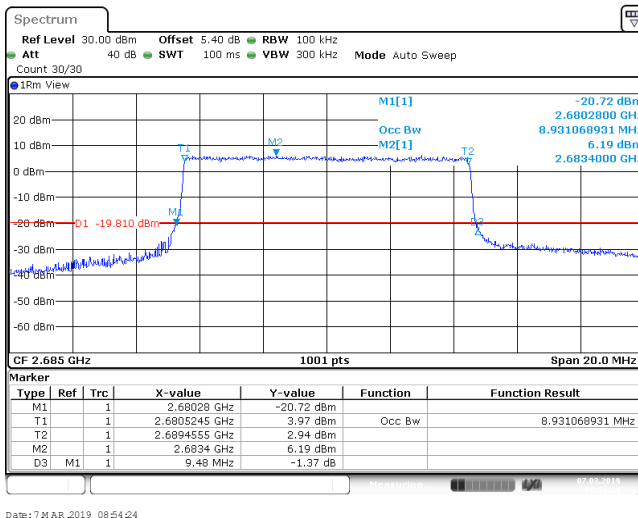
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Date: 7 MAR 2019 08:54:01

**Band41\_10MHz\_QPSK\_41540\_50RB#0**

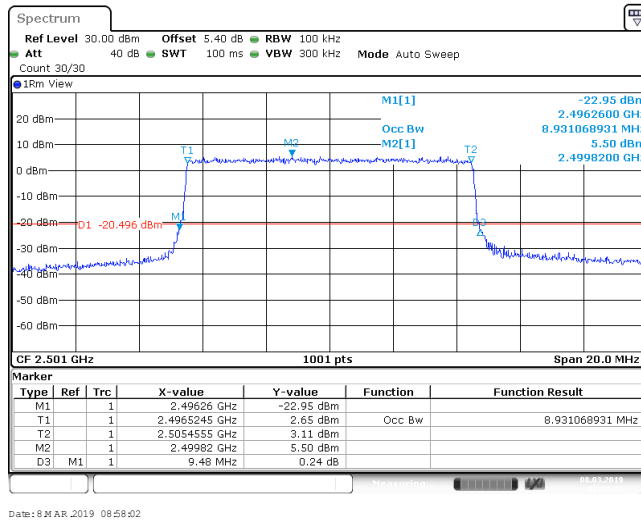


Date: 7 MAR 2019 08:54:24

**Band41\_10MHz\_64QAM\_39700\_50RB#0**

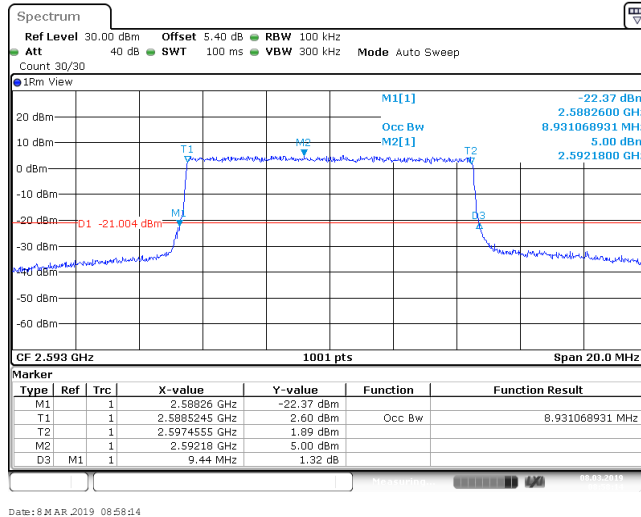


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Date: 8 MAR 2019 08:58:02

**Band41\_10MHz\_64QAM\_40620\_50RB#0**

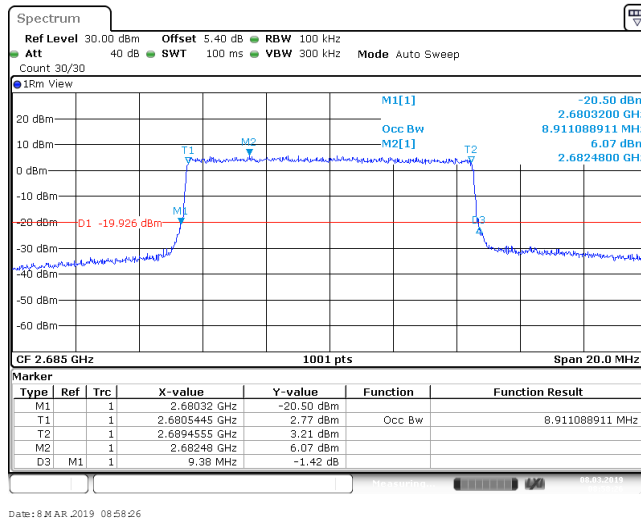


Date: 8 MAR 2019 08:58:14

**Band41\_10MHz\_64QAM\_41540\_50RB#0**

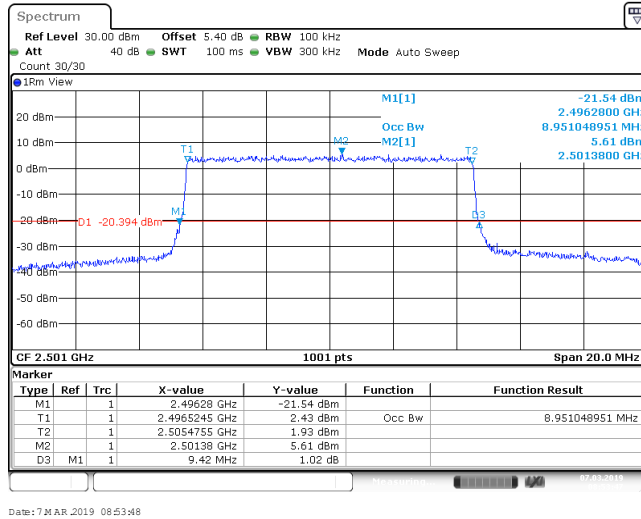


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Date: 8 MAR 2019 08:58:26

**Band41\_10MHz\_16QAM\_39700\_50RB#0**

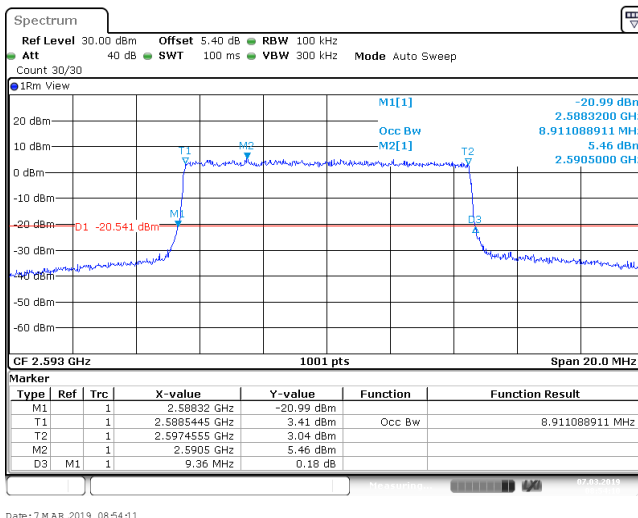


Date: 7 MAR 2019 08:53:48

**Band41\_10MHz\_16QAM\_40620\_50RB#0**

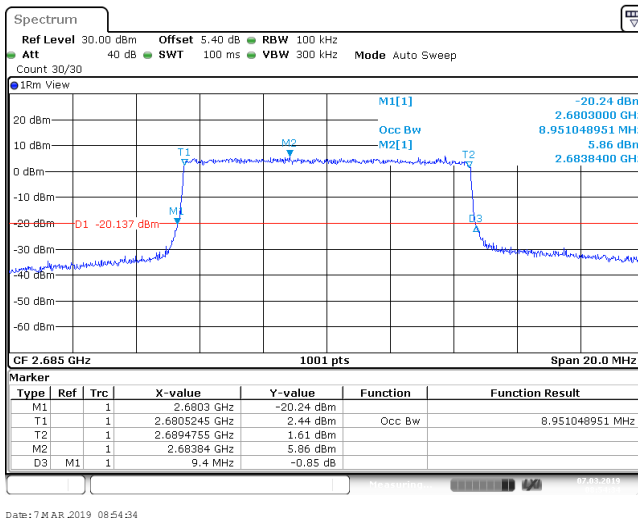


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Date: 7 MAR 2019 08:54:11

**Band41\_10MHz\_16QAM\_41540\_50RB#0**

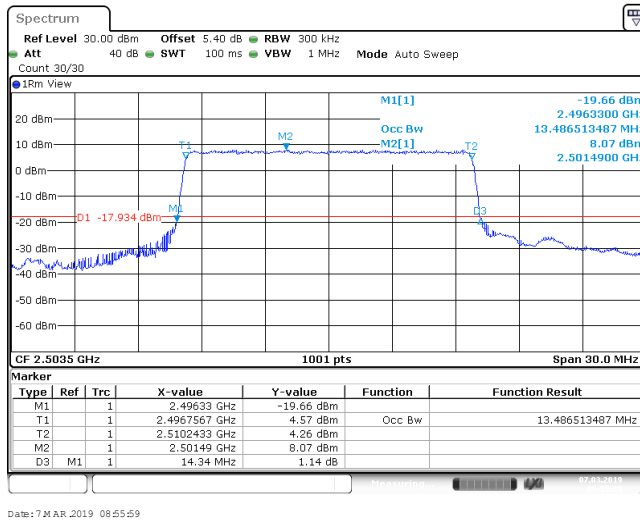


Date: 7 MAR 2019 08:54:24

**Band41\_15MHz\_QPSK\_39725\_75RB#0**

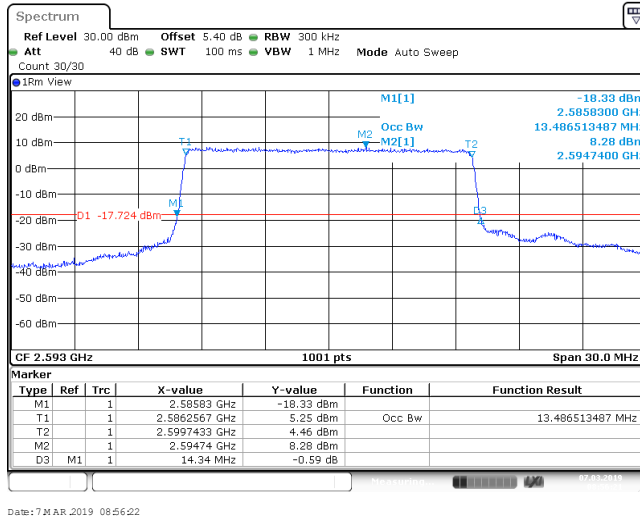


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Date: 7 MAR 2019 08:55:59

**Band41\_15MHz\_QPSK\_40620\_75RB#0**



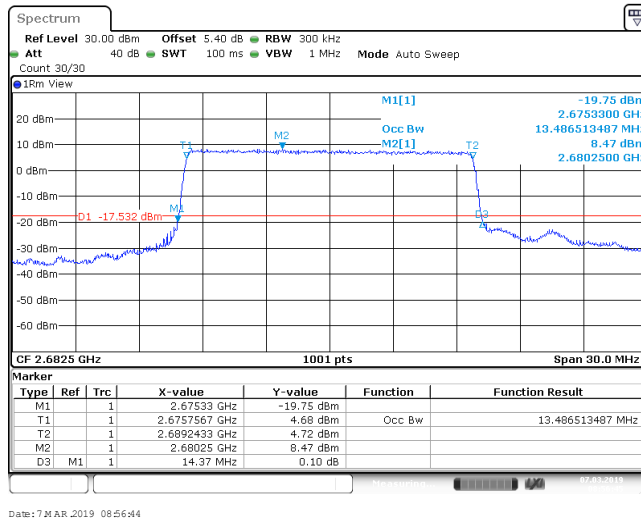
Date: 7 MAR 2019 08:56:22

**Band41\_15MHz\_QPSK\_41515\_75RB#0**



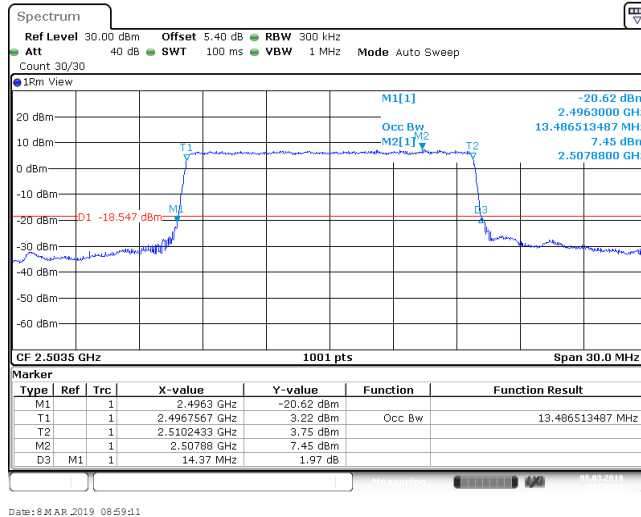
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Date: 7 MAR 2019 08:56:44

**Band41\_15MHz\_64QAM\_39725\_75RB#0**

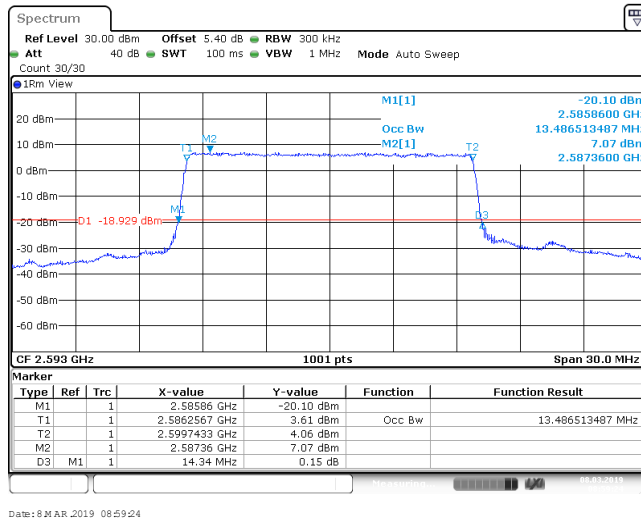


Date: 8 MAR 2019 08:59:11

**Band41\_15MHz\_64QAM\_40620\_75RB#0**

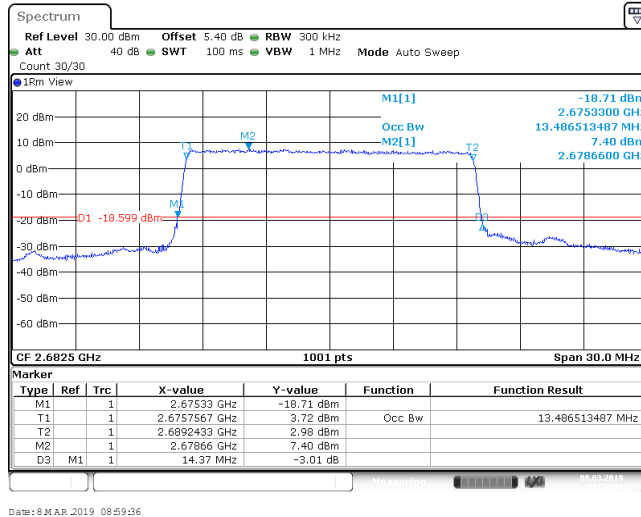


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Date: 8 MAR 2019 08:59:24

**Band41\_15MHz\_64QAM\_41515\_75RB#0**

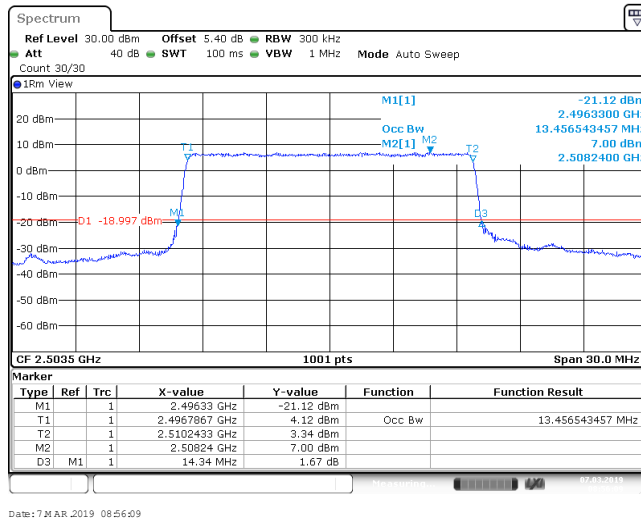


Date: 8 MAR 2019 08:59:26

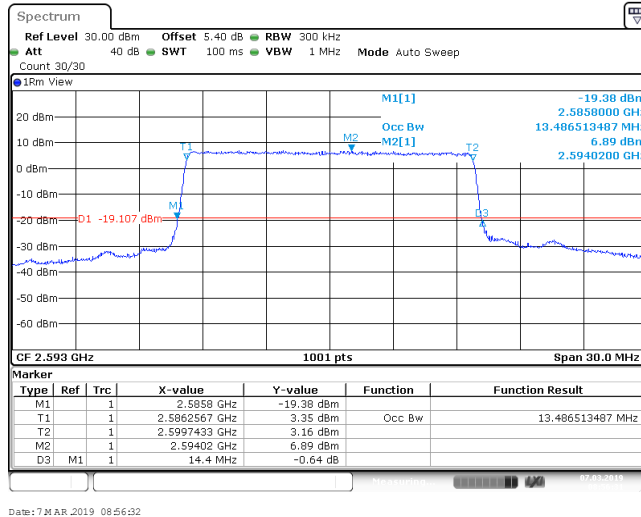
**Band41\_15MHz\_16QAM\_39725\_75RB#0**



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**Band41\_15MHz\_16QAM\_40620\_75RB#0**



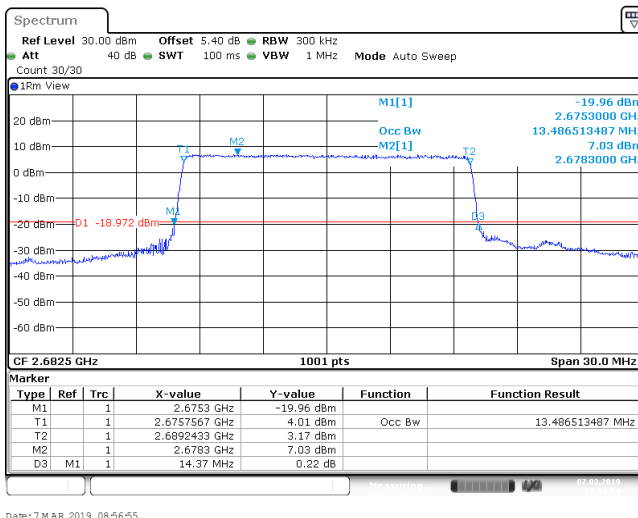
**Band41\_15MHz\_16QAM\_41515\_75RB#0**



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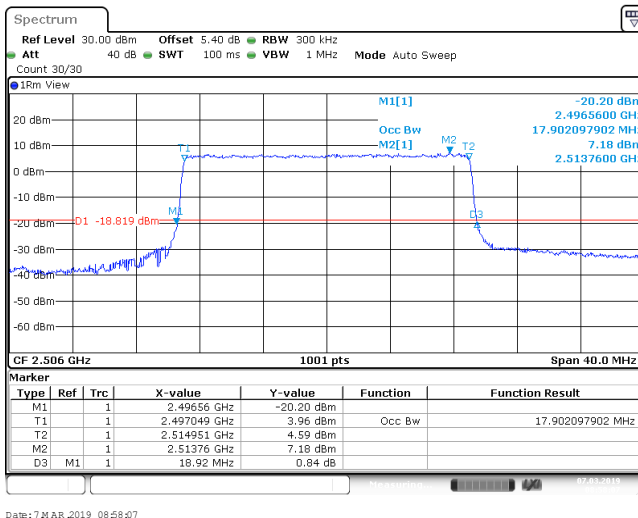
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 7 MAR 2019 08:56:55

**Band41\_20MHz\_QPSK\_39750\_100RB#0**

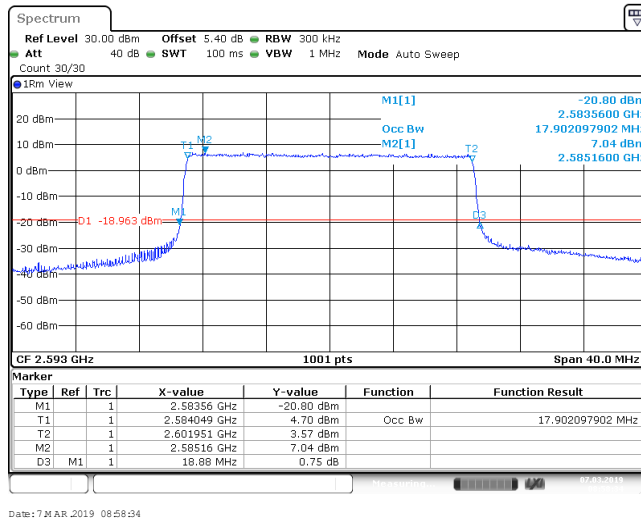


Date: 7 MAR 2019 08:58:07

**Band41\_20MHz\_QPSK\_40620\_100RB#0**

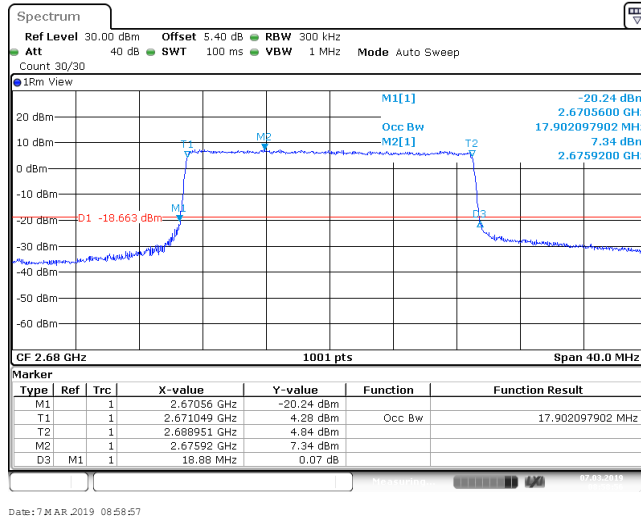


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Date: 7 MAR 2019 08:58:34

**Band41\_20MHz\_QPSK\_41490\_100RB#0**



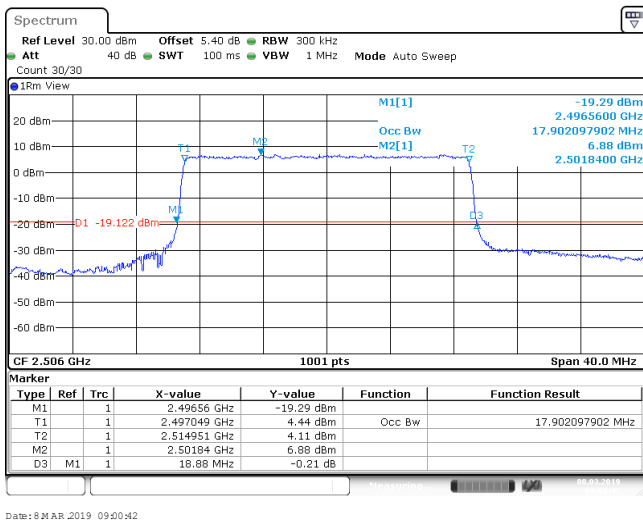
Date: 7 MAR 2019 08:58:57

**Band41\_20MHz\_64QAM\_39750\_100RB#0**

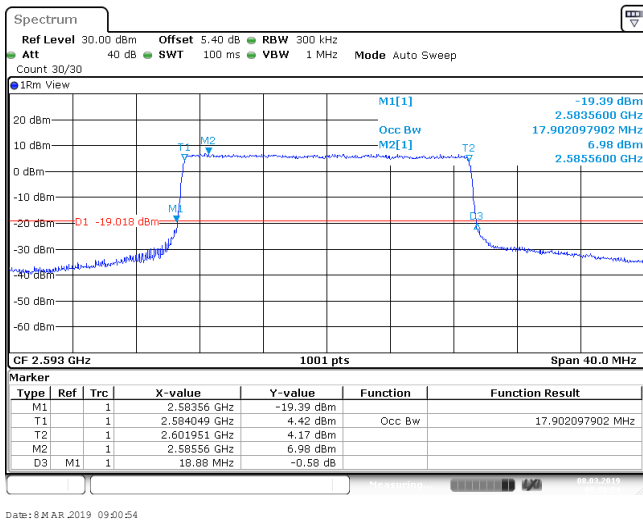


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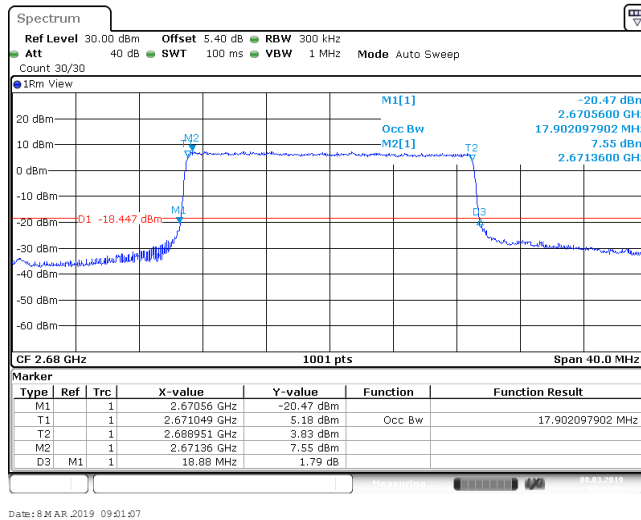


Band41\_20MHz\_64QAM\_40620\_100RB#0



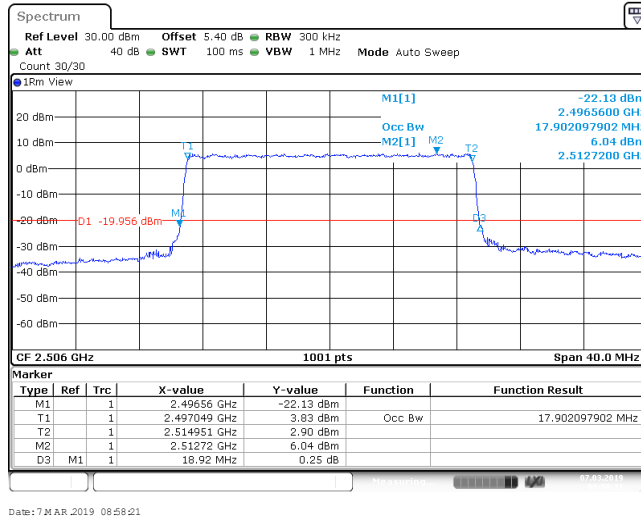
Band41\_20MHz\_64QAM\_41490\_100RB#0





Date: 8 MAR 2019 09:01:07

**Band41\_20MHz\_16QAM\_39750\_100RB#0**

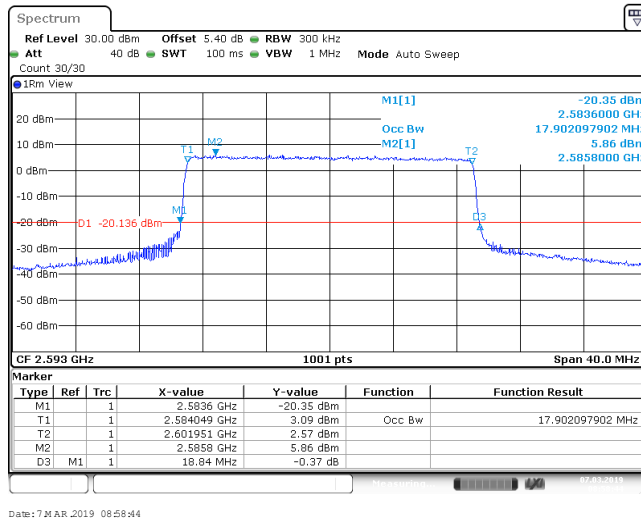


Date: 7 MAR 2019 08:58:21

**Band41\_20MHz\_16QAM\_40620\_100RB#0**

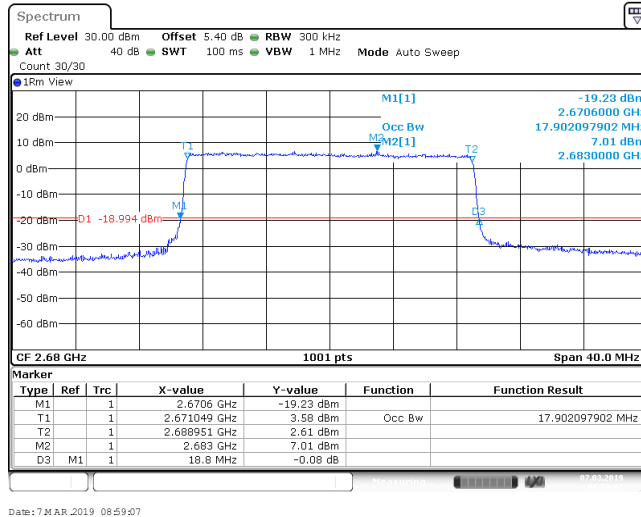


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Date: 7 MAR 2019 08:58:44

**Band41\_20MHz\_16QAM\_41490\_100RB#0**



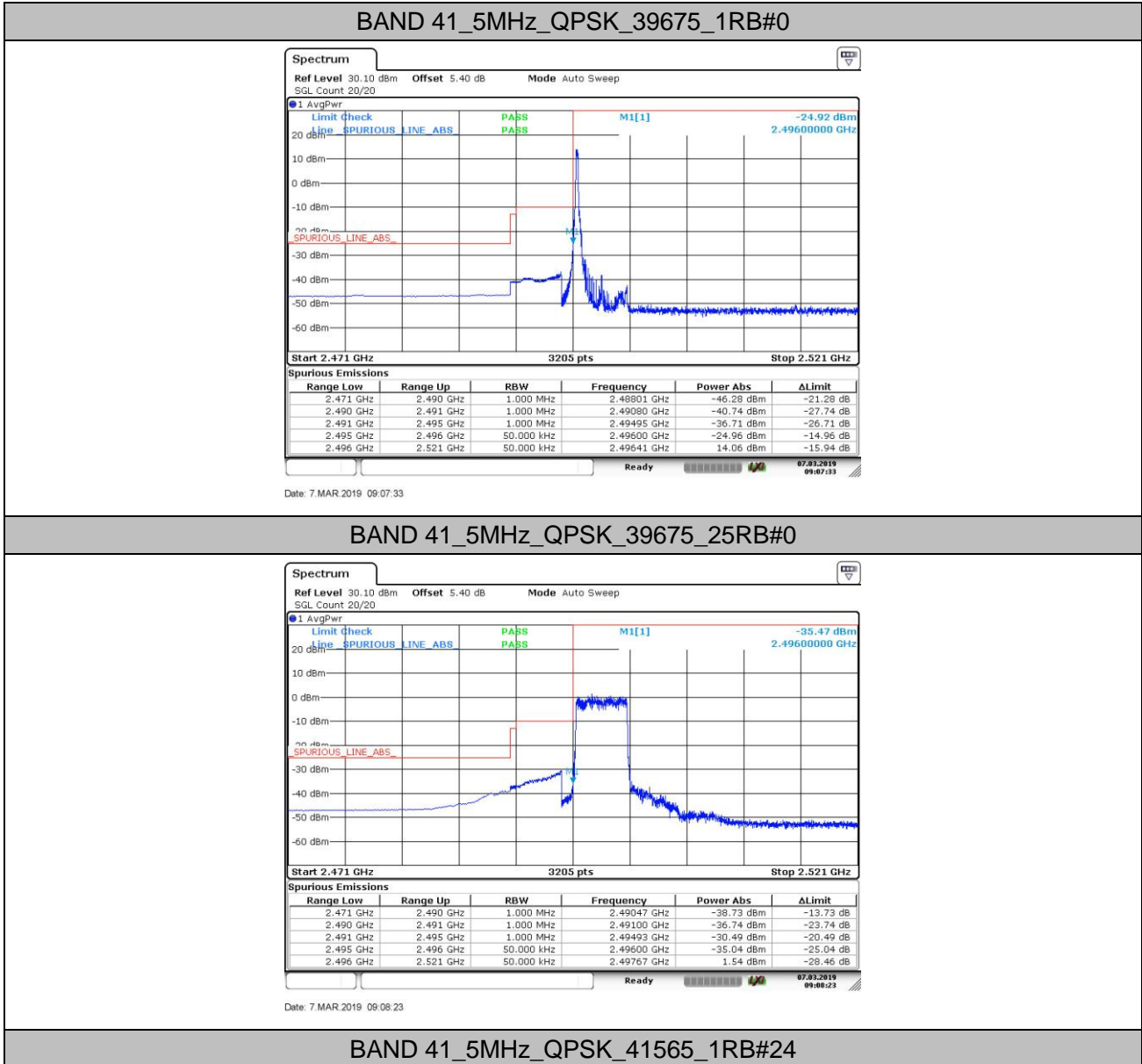
Date: 7 MAR 2019 08:59:07



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## 5. Band Edge Compliance

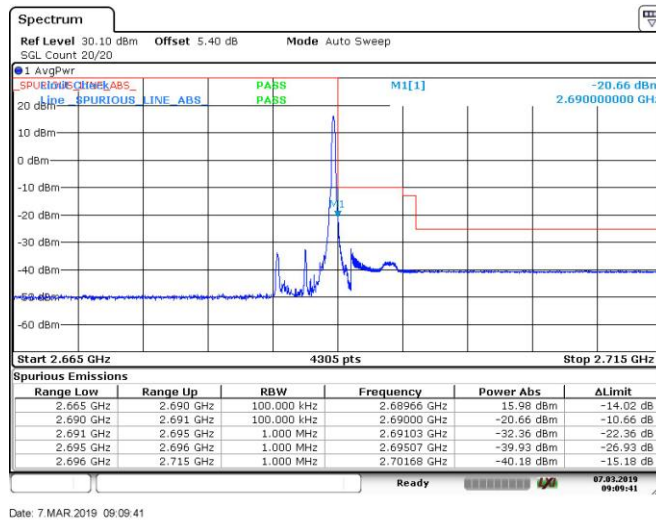
### 5.1 Test Plots



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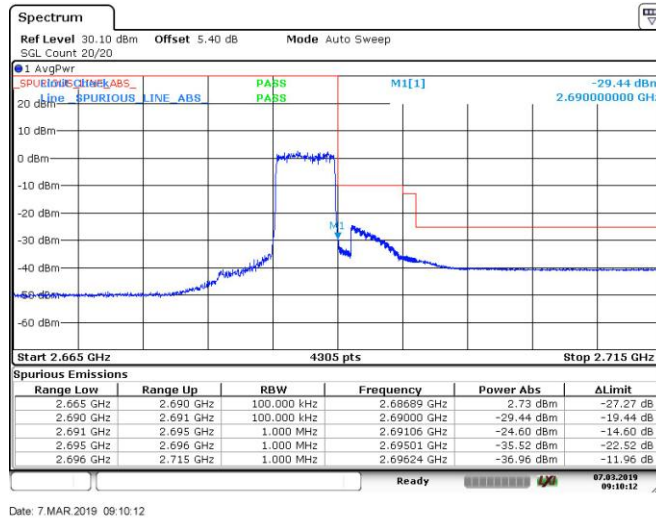
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Date: 7 MAR 2019 09:09:41

**BAND 41\_5MHz\_QPSK\_41565\_25RB#0**



Date: 7 MAR 2019 09:10:12

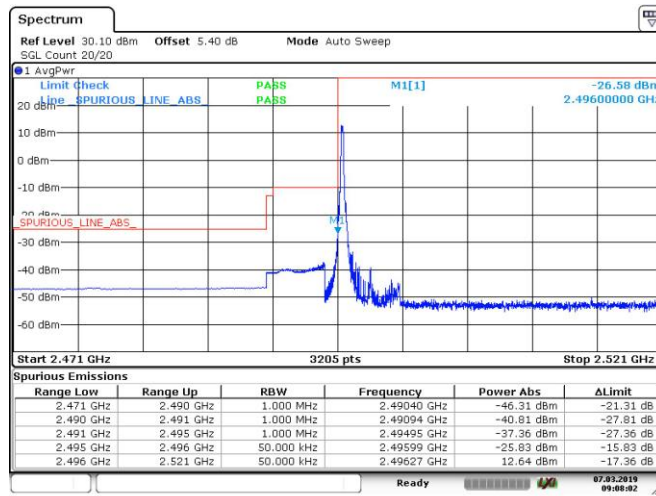
**BAND 41\_5MHz\_16QAM\_39675\_1RB#0**



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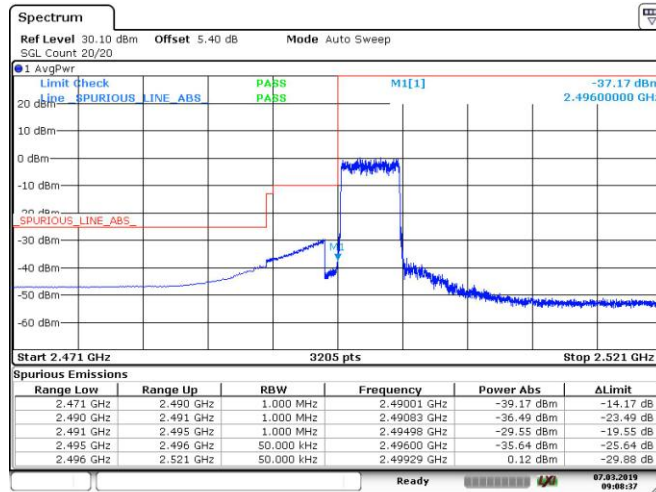
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Date: 7 MAR 2019 09:08:03

**BAND 41\_5MHz\_16QAM\_39675\_25RB#0**

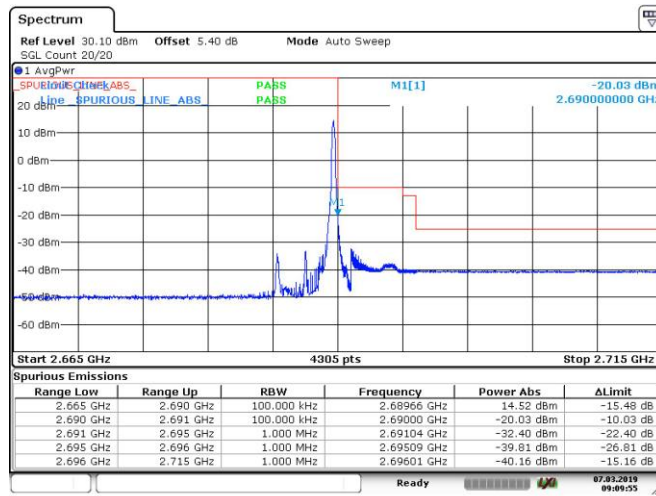


Date: 7 MAR 2019 09:08:37

**BAND 41\_5MHz\_16QAM\_41565\_1RB#24**

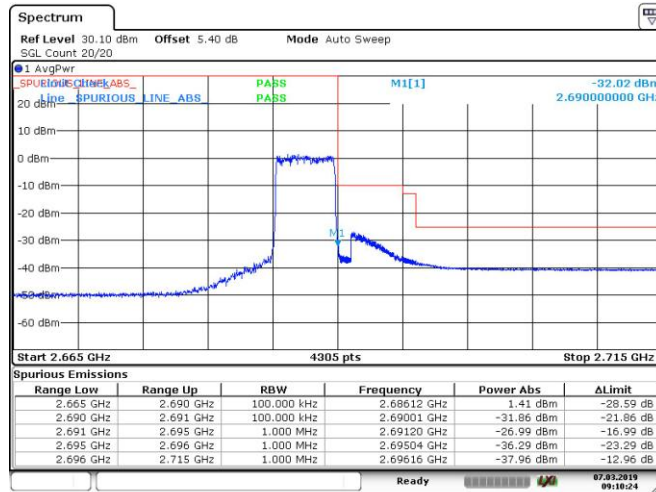


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Date: 7 MAR 2019 09:09:55

**BAND 41\_5MHz\_16QAM\_41565\_25RB#0**

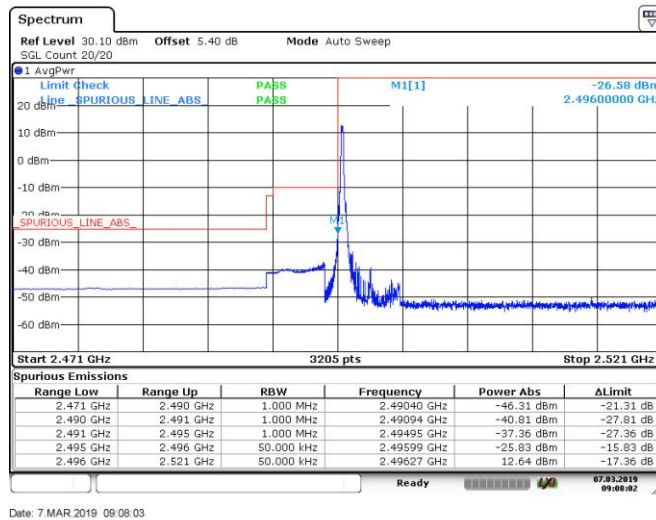


Date: 7 MAR 2019 09:10:24

**BAND 41\_5MHz\_64QAM\_39675\_1RB#0**

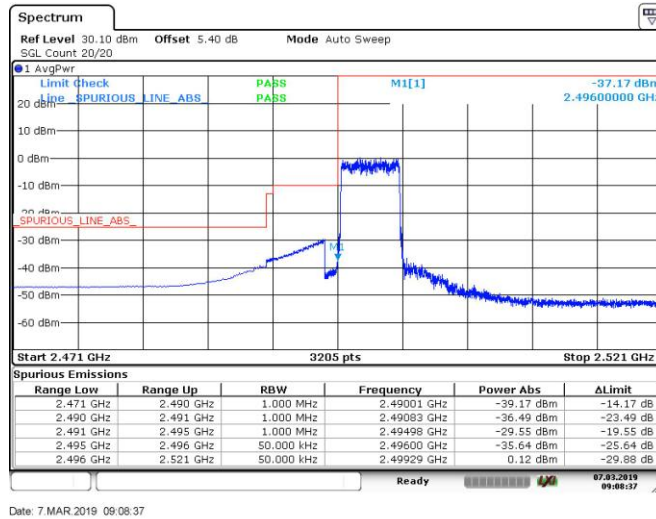


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Date: 7 MAR 2019 09:08:03

**BAND 41\_5MHz\_64QAM\_39675\_25RB#0**



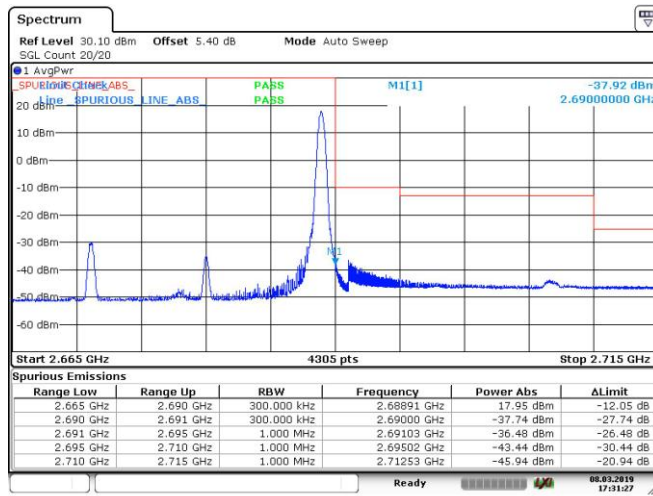
Date: 7 MAR 2019 09:08:37

**BAND 41\_5MHz\_64QAM\_41565\_1RB#24**



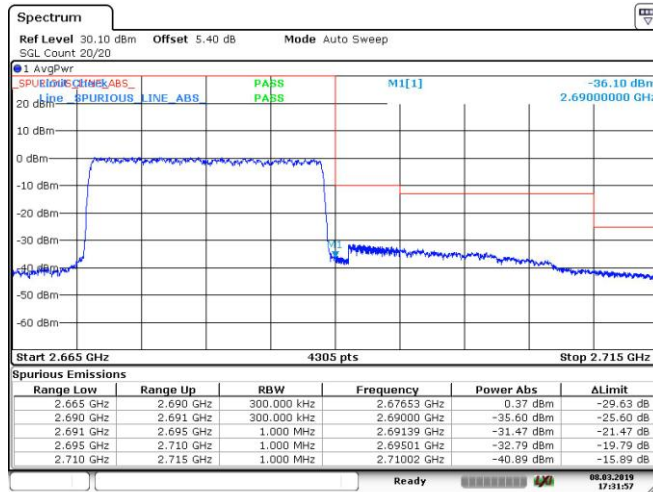
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Date: 8 MAR 2019 17:31:28

**BAND 41\_5MHz\_64QAM\_41565\_25RB#0**

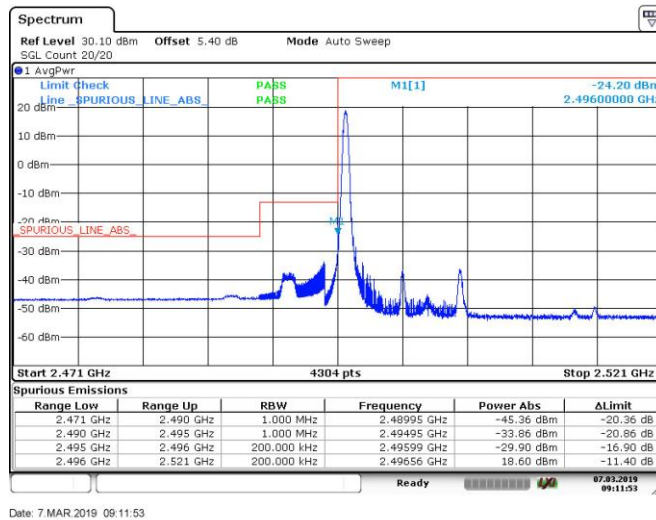


Date: 8 MAR 2019 17:31:58

**BAND 41\_10MHz\_QPSK\_39700\_1RB#0**

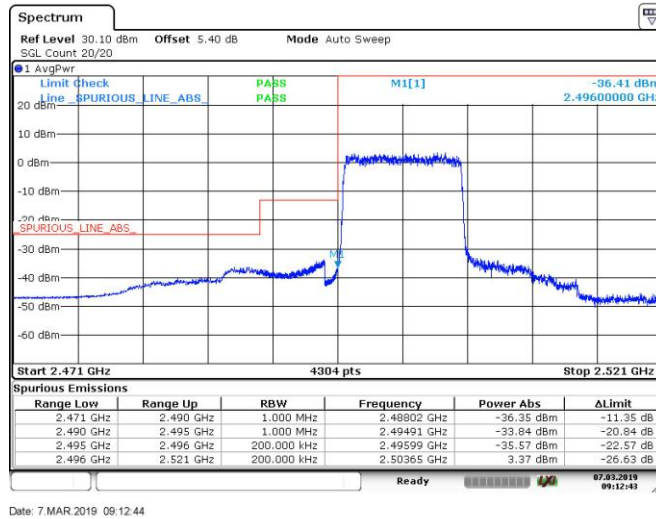


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Date: 7 MAR 2019 09:11:53

**BAND 41\_10MHz\_QPSK\_39700\_50RB#0**



Date: 7 MAR 2019 09:12:44

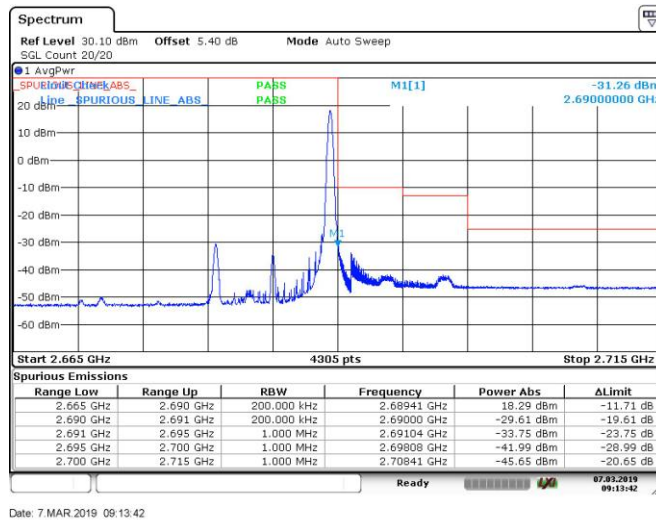
**BAND 41\_10MHz\_QPSK\_41540\_1RB#49**



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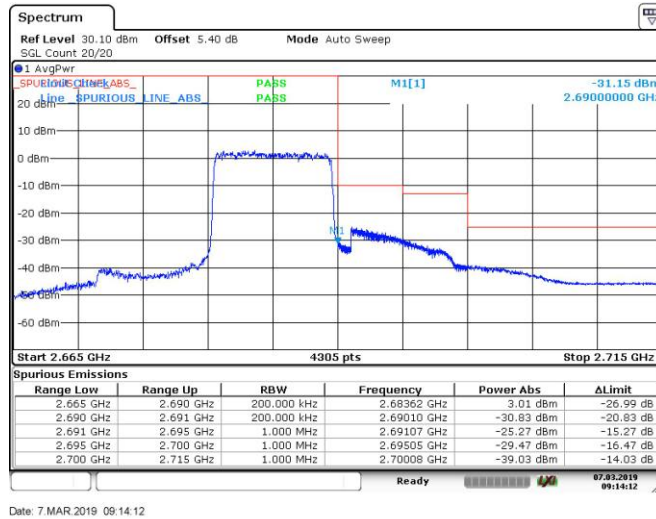
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Date: 7 MAR 2019 09:13:42

**BAND 41\_10MHz\_QPSK\_41540\_50RB#0**

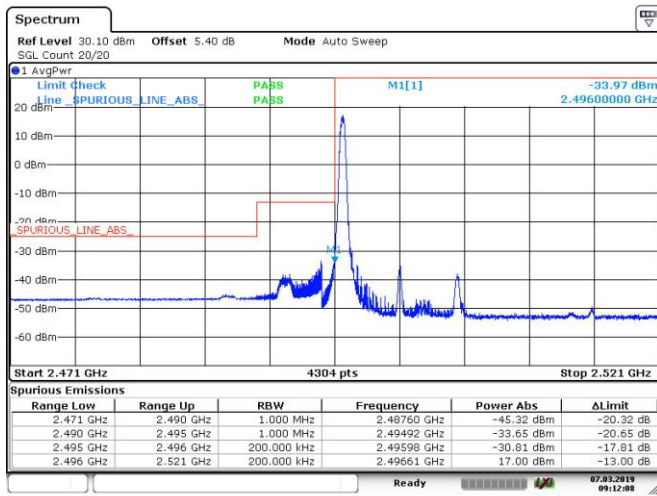


Date: 7 MAR 2019 09:14:12

**BAND 41\_10MHz\_16QAM\_39700\_1RB#0**

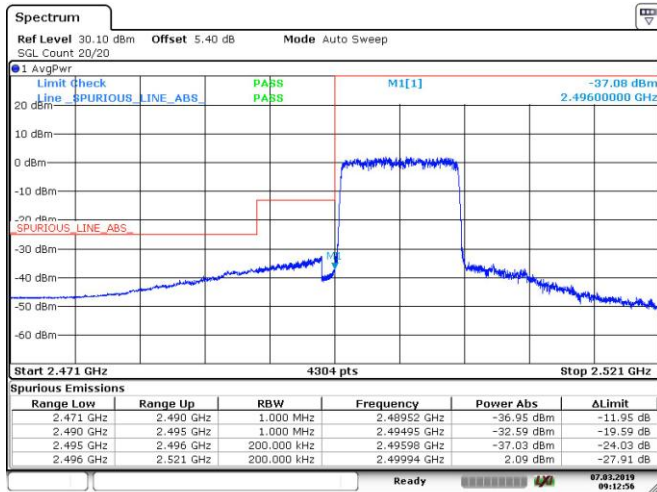


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Date: 7 MAR 2019 09:12:09

**BAND 41\_10MHz\_16QAM\_39700\_50RB#0**



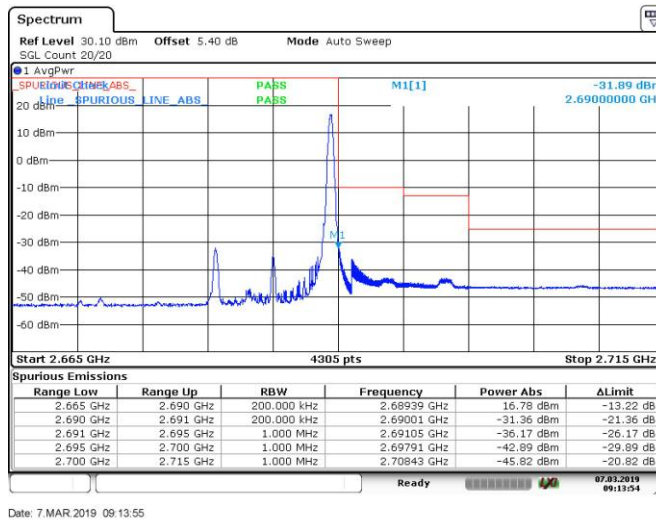
Date: 7 MAR 2019 09:12:57

**BAND 41\_10MHz\_16QAM\_41540\_1RB#49**



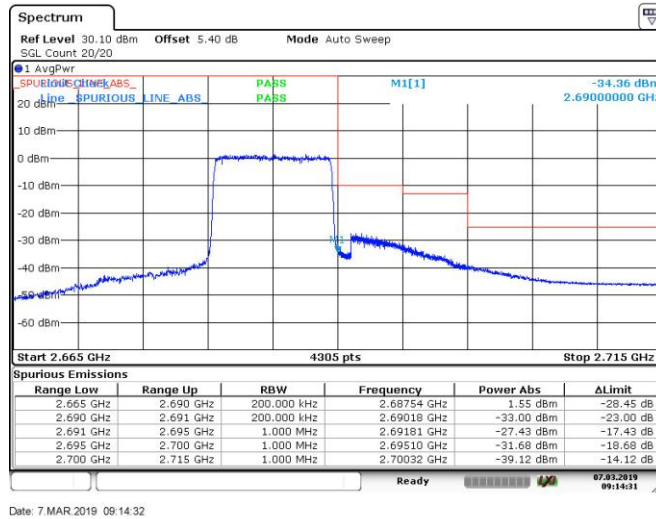
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Date: 7 MAR 2019 09:13:55

**BAND 41\_10MHz\_16QAM\_41540\_50RB#0**



Date: 7 MAR 2019 09:14:32

**BAND 41\_10MHz\_64QAM\_39700\_1RB#0**

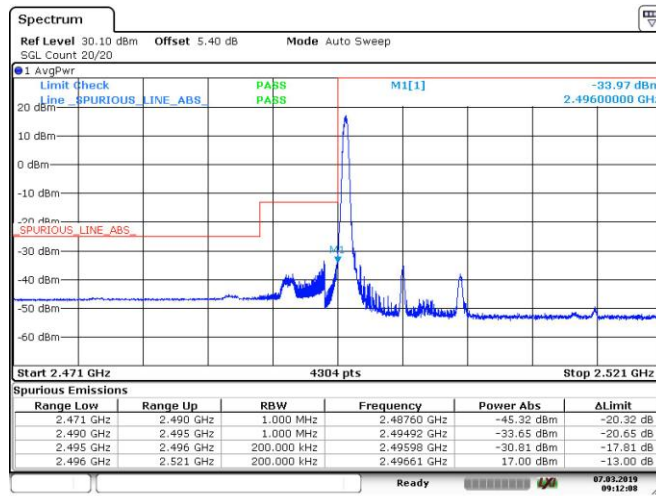


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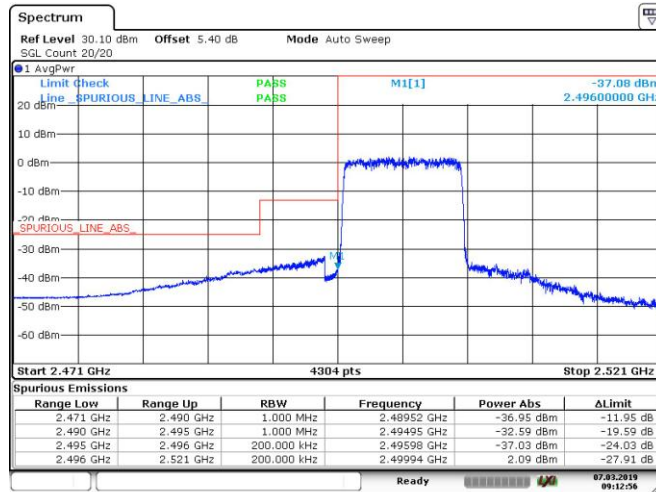
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Date: 7 MAR 2019 09:12:09

**BAND 41\_10MHz\_64QAM\_39700\_50RB#0**

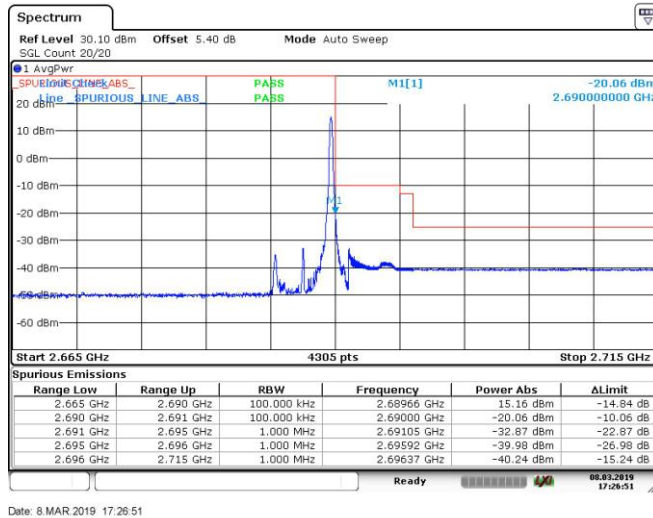


Date: 7 MAR 2019 09:12:57

**BAND 41\_10MHz\_64QAM\_41540\_1RB#49**

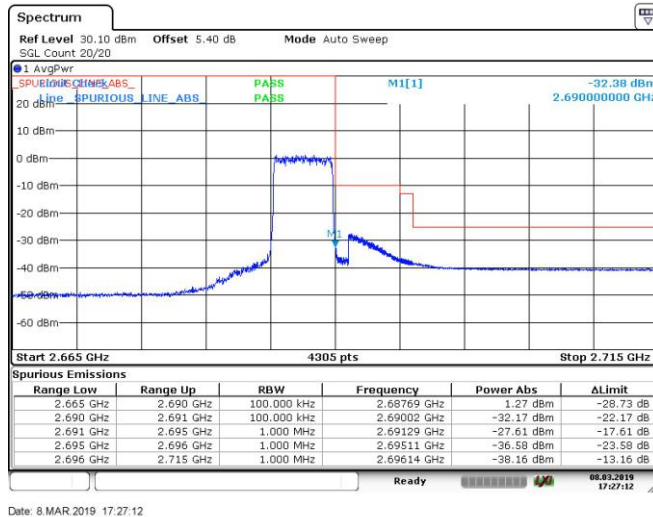


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Date: 8 MAR 2019 17:26:51

**BAND 41\_10MHz\_64QAM\_41540\_50RB#0**



Date: 8 MAR 2019 17:27:12

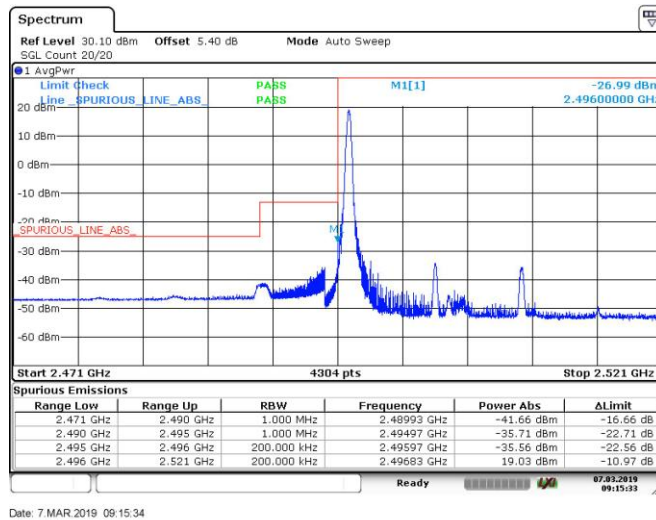
**BAND 41\_15MHz\_QPSK\_39725\_1RB#0**



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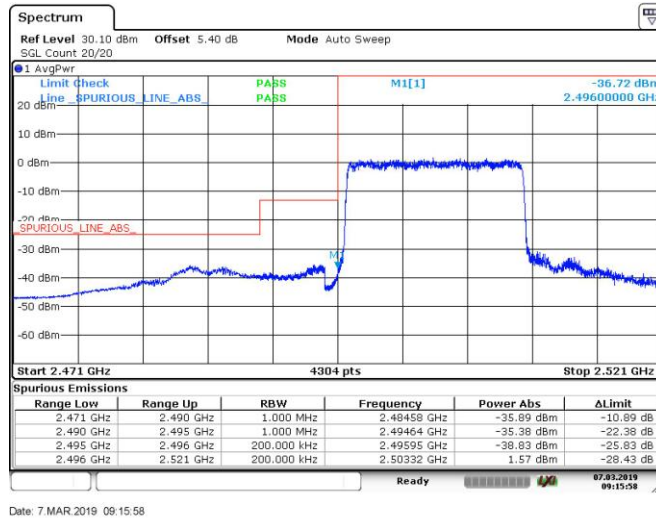
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 7 MAR 2019 09:15:34

BAND 41\_15MHz\_QPSK\_39725\_75RB#0

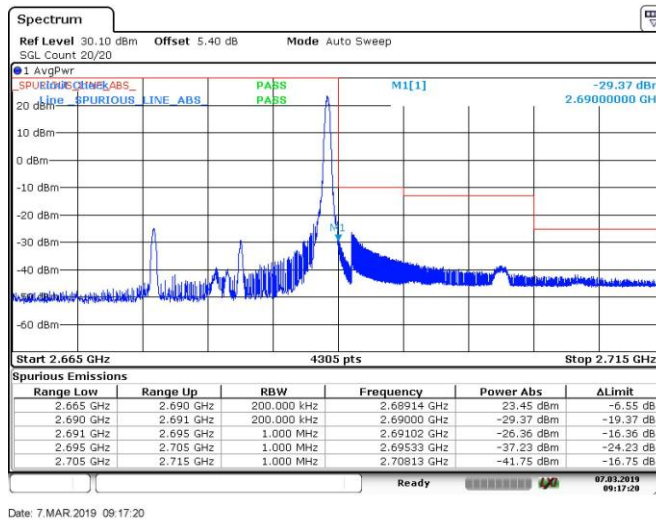


Date: 7 MAR 2019 09:15:58

BAND 41\_15MHz\_QPSK\_41515\_1RB#74

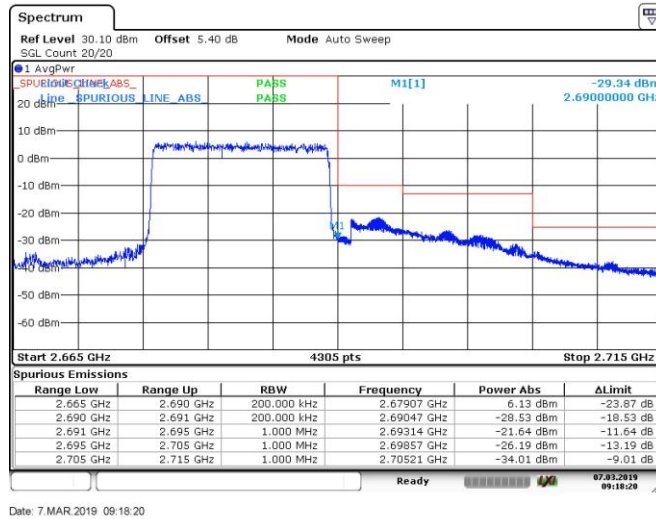


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Date: 7. MAR. 2019 09:17:20

**BAND 41\_15MHz\_QPSK\_41515\_75RB#0**



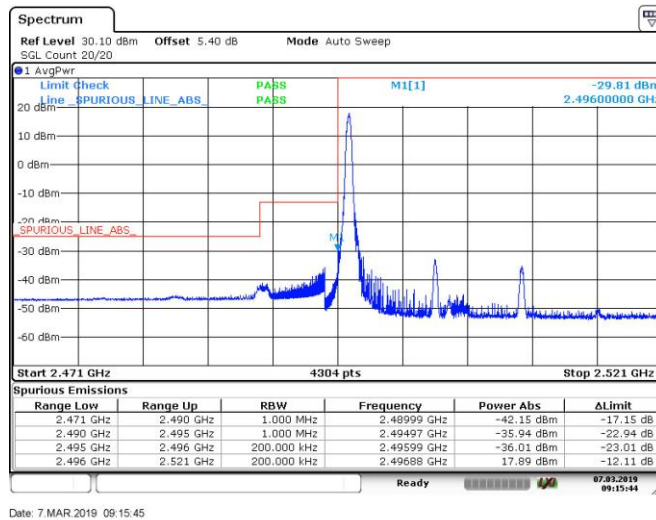
Date: 7. MAR. 2019 09:18:20

**BAND 41\_15MHz\_16QAM\_39725\_1RB#0**



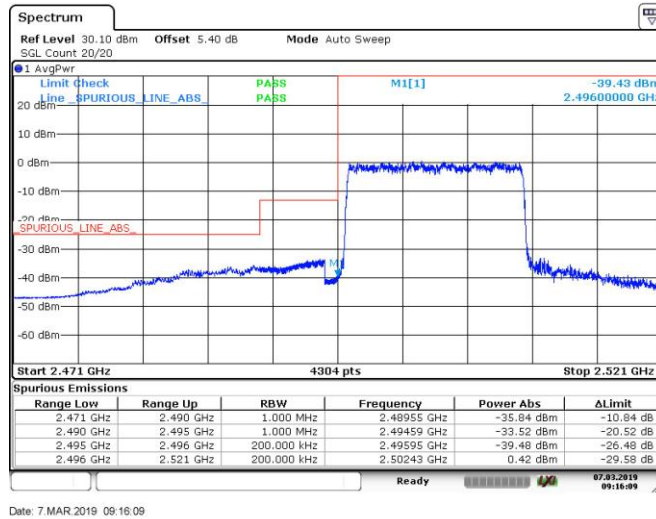
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Date: 7 MAR 2019 09:15:45

**BAND 41\_15MHz\_16QAM\_39725\_75RB#0**



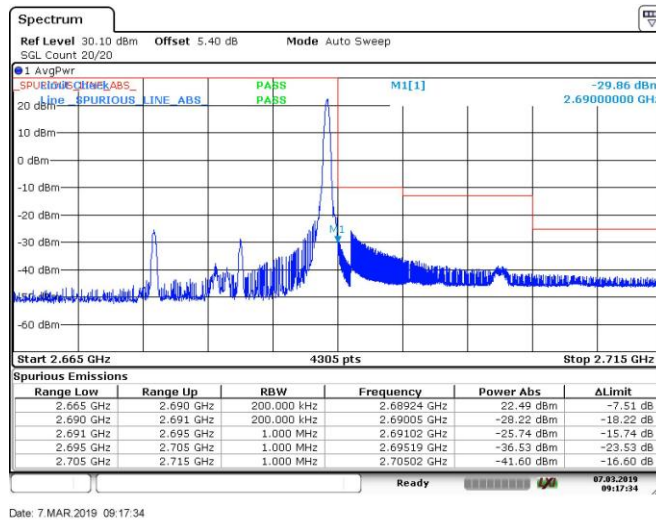
Date: 7 MAR 2019 09:16:09

**BAND 41\_15MHz\_16QAM\_41515\_1RB#74**



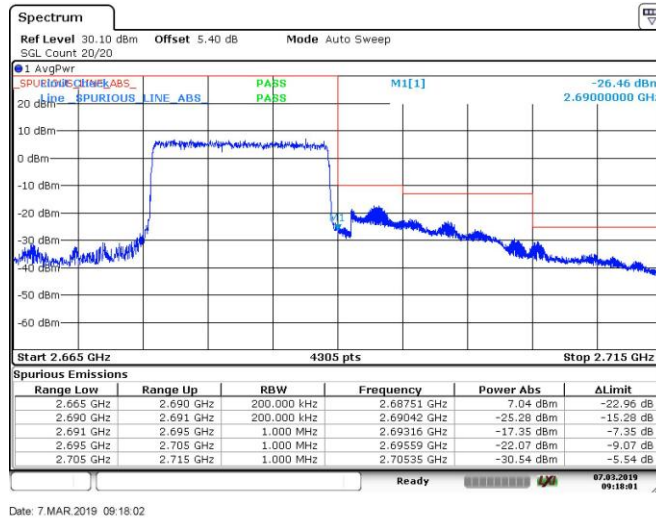
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Date: 7 MAR 2019 09:17:34

**BAND 41\_15MHz\_16QAM\_41515\_75RB#0**

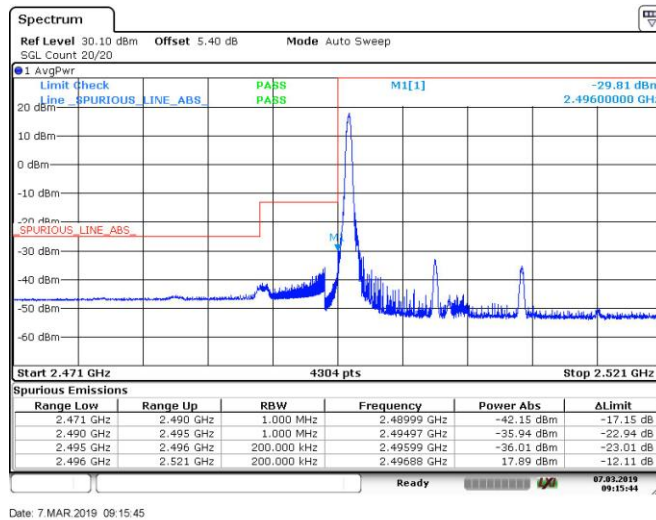


Date: 7 MAR 2019 09:18:02

**BAND 41\_15MHz\_64QAM\_39725\_1RB#0**

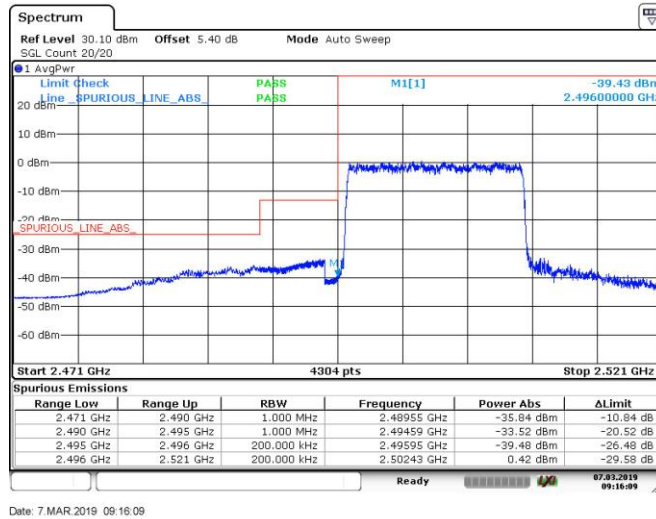


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Date: 7 MAR 2019 09:15:45

**BAND 41\_15MHz\_64QAM\_39725\_75RB#0**



Date: 7 MAR 2019 09:16:09

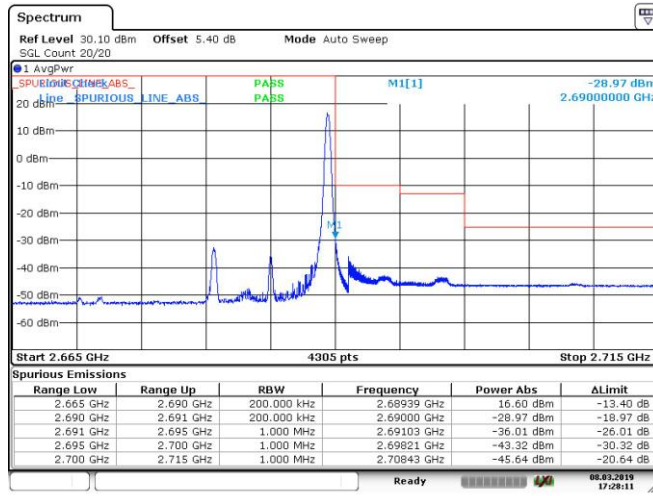
**BAND 41\_15MHz\_64QAM\_41515\_1RB#74**



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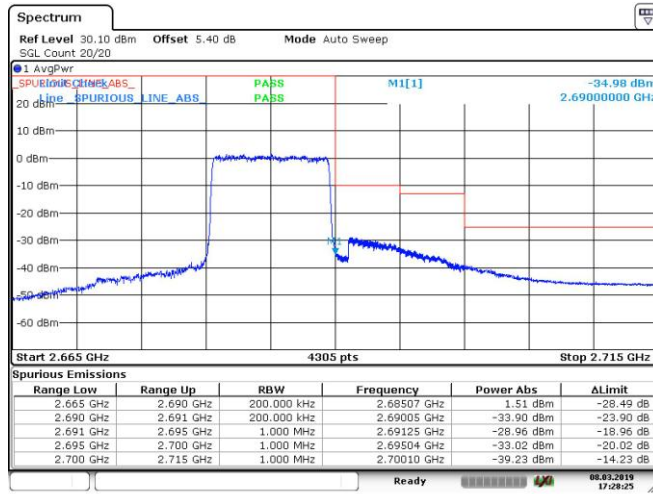
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Date: 8 MAR 2019 17:28:11

**BAND 41\_15MHz\_64QAM\_41515\_75RB#0**

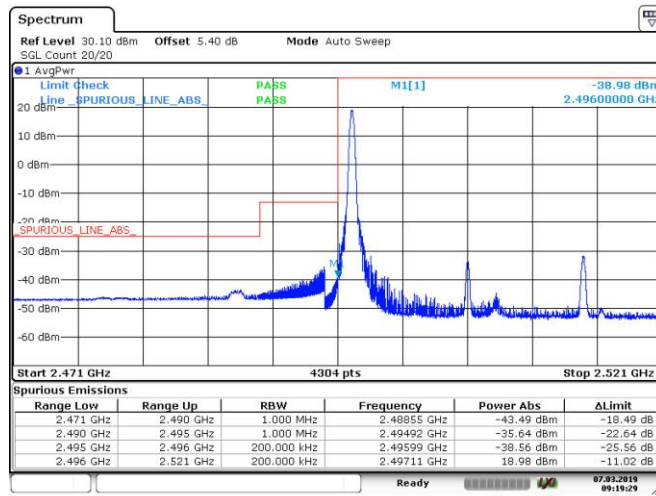


Date: 8 MAR 2019 17:28:25

**BAND 41\_20MHz\_QPSK\_39750\_1RB#0**

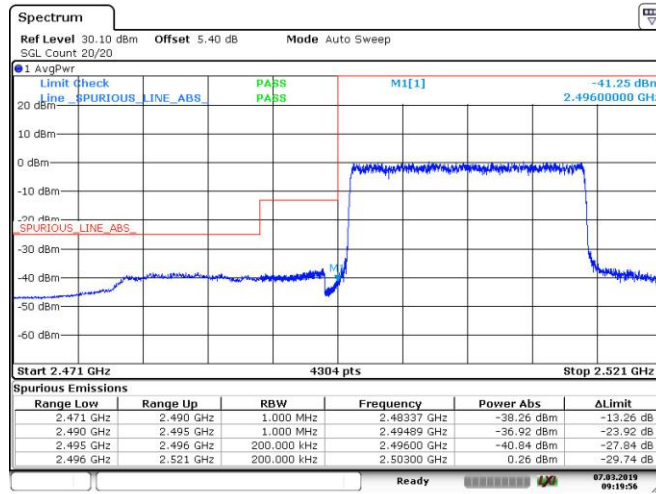


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Date: 7 MAR 2019 09:19:29

**BAND 41\_20MHz\_QPSK\_39750\_100RB#0**



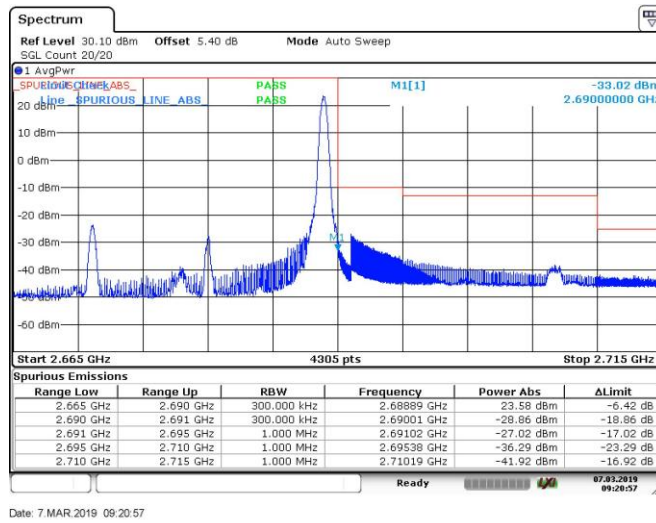
Date: 7 MAR 2019 09:19:57

**BAND 41\_20MHz\_QPSK\_41490\_1RB#99**



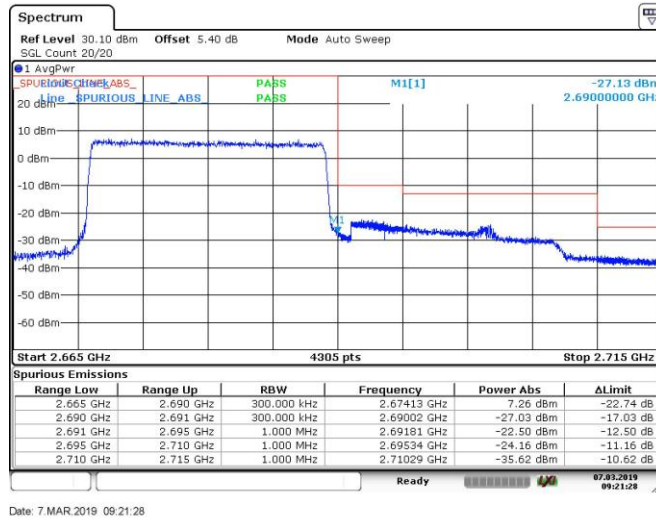
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Date: 7 MAR 2019 09:20:57

**BAND 41\_20MHz\_QPSK\_41490\_100RB#0**



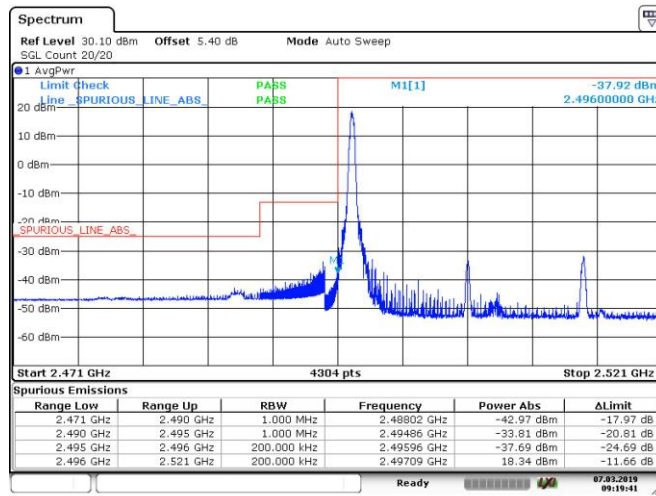
Date: 7 MAR 2019 09:21:28

**BAND 41\_20MHz\_16QAM\_39750\_1RB#0**



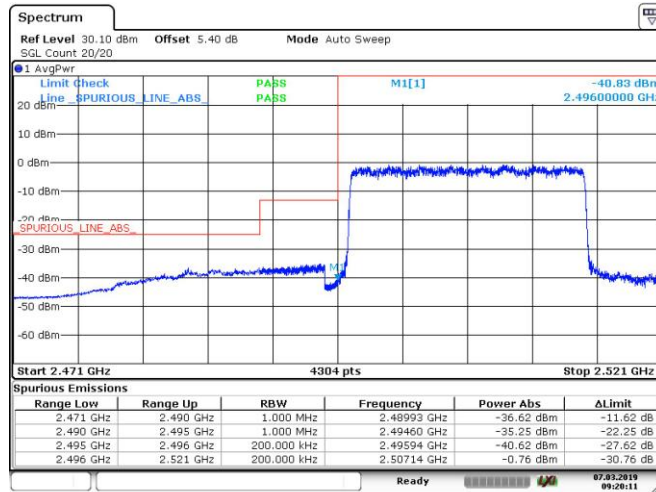
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Date: 7 MAR 2019 09:19:41

**BAND 41\_20MHz\_16QAM\_39750\_100RB#0**

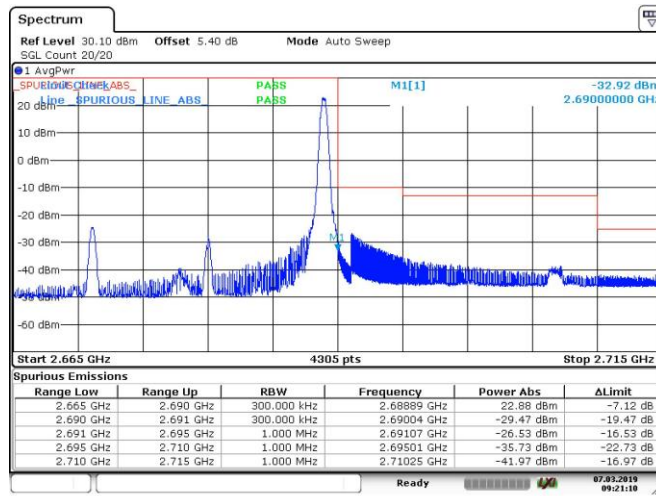


Date: 7 MAR 2019 09:20:11

**BAND 41\_20MHz\_16QAM\_41490\_1RB#99**

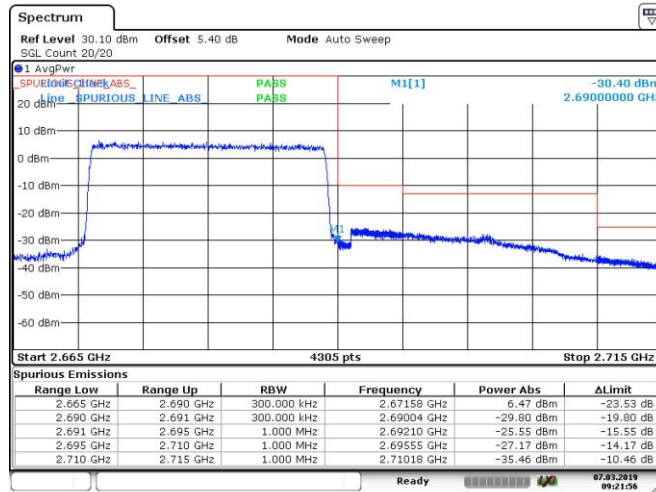


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Date: 7 MAR 2019 09:21:10

**BAND 41\_20MHz\_16QAM\_41490\_100RB#0**

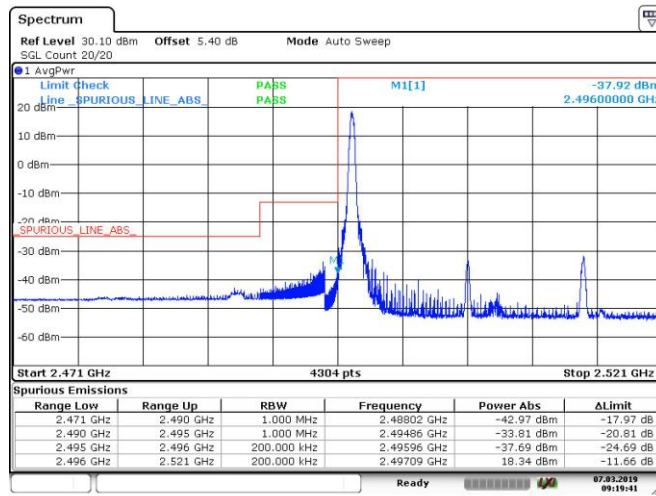


Date: 7 MAR 2019 09:21:56

**BAND 41\_20MHz\_64QAM\_39750\_1RB#0**

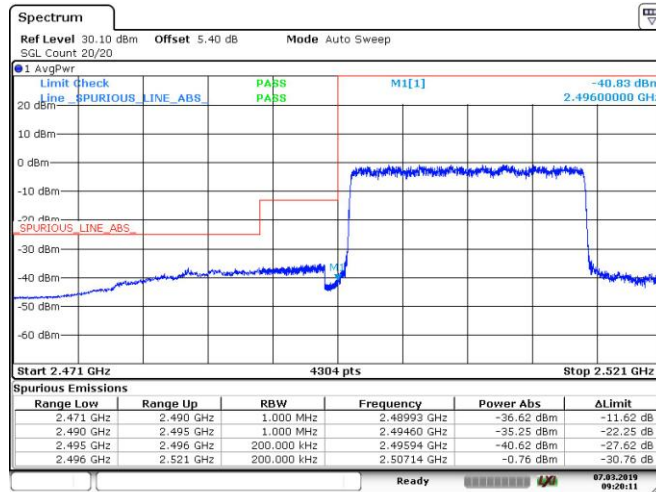


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Date: 7 MAR 2019 09:19:41

**BAND 41\_20MHz\_64QAM\_39750\_100RB#0**

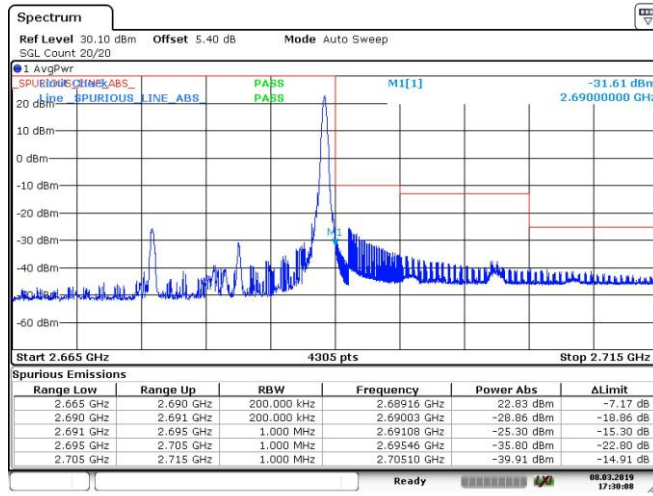


Date: 7 MAR 2019 09:20:11

**BAND 41\_20MHz\_64QAM\_41490\_1RB#99**

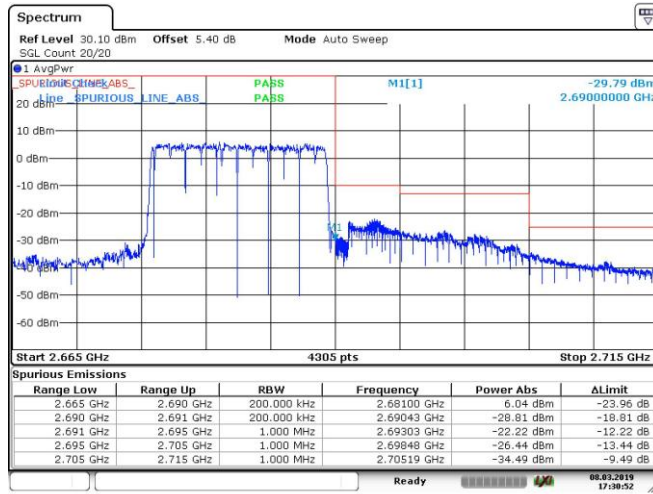


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Date: 8 MAR 2019 17:30:09

**BAND 41\_20MHz\_64QAM\_41490\_100RB#0**



Date: 8 MAR 2019 17:30:53



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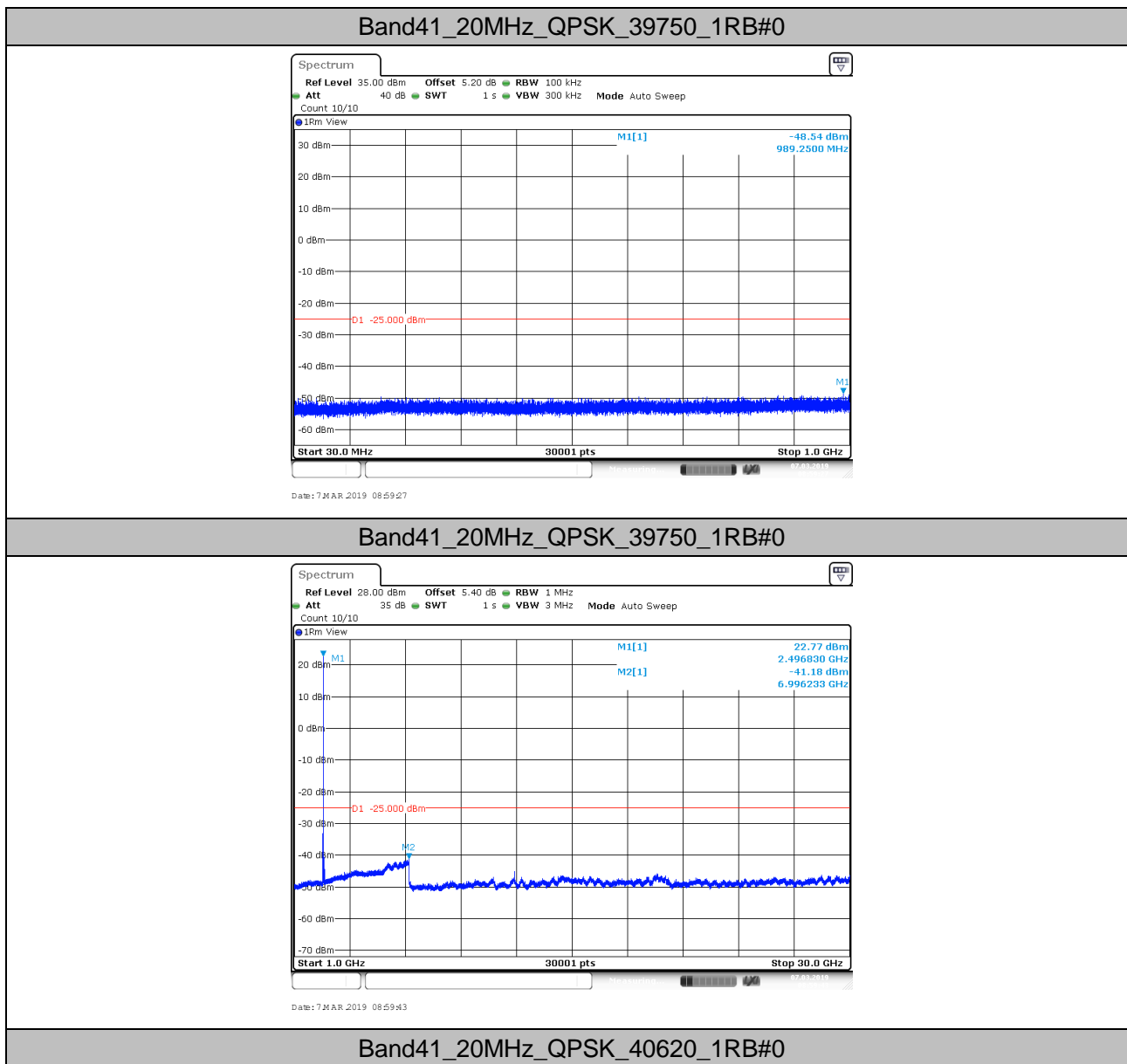


## 6. Spurious Emission at Antenna Terminal

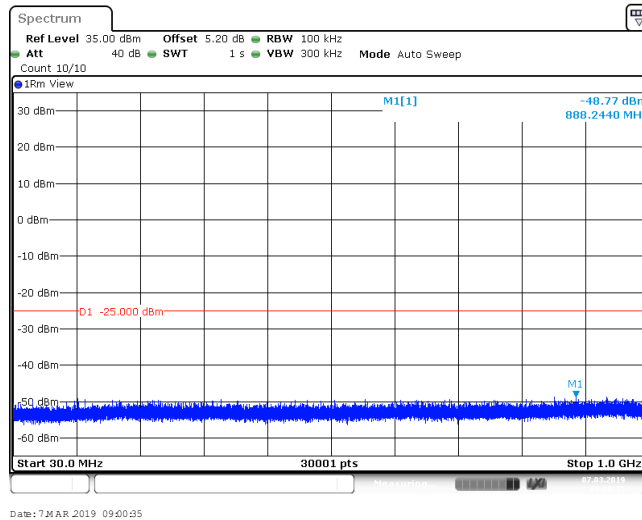
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

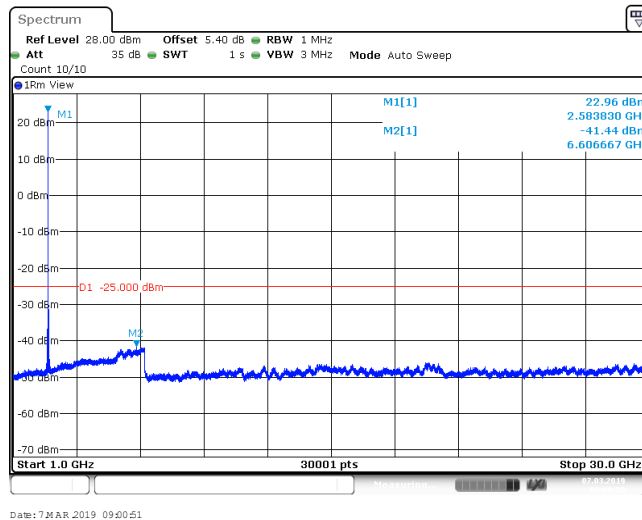
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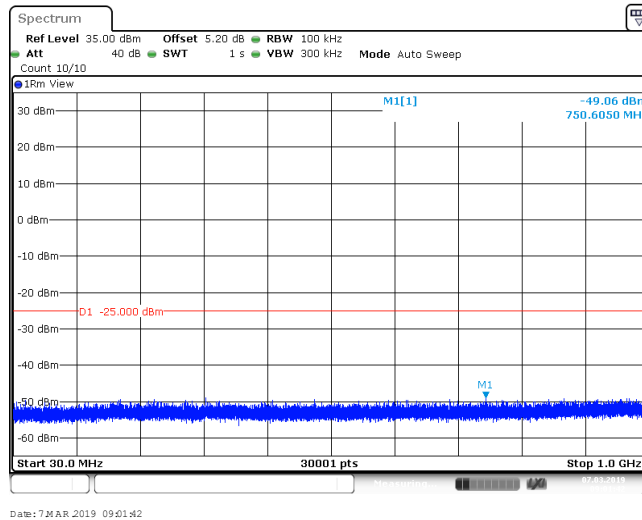
**Band41\_20MHz\_QPSK\_40620\_1RB#0**



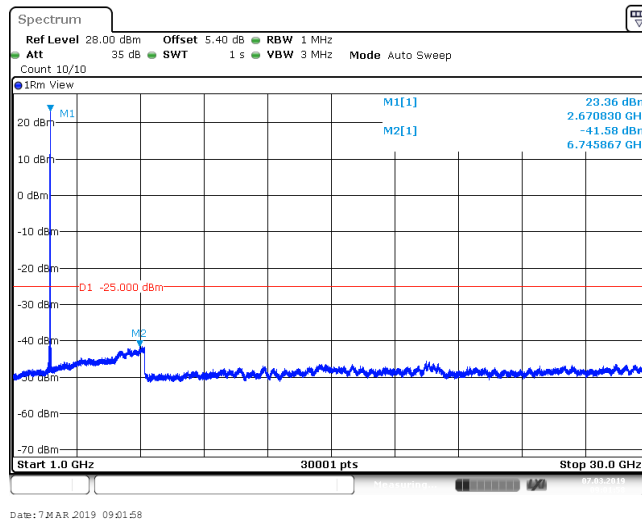
**Band41\_20MHz\_QPSK\_41490\_1RB#0**



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**Band41\_20MHz\_QPSK\_41490\_1RB#0**

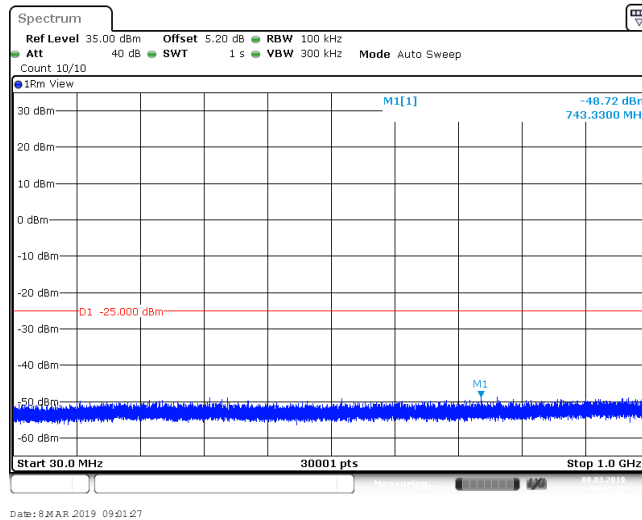


**Band41\_20MHz\_64QAM\_39750\_1RB#0**

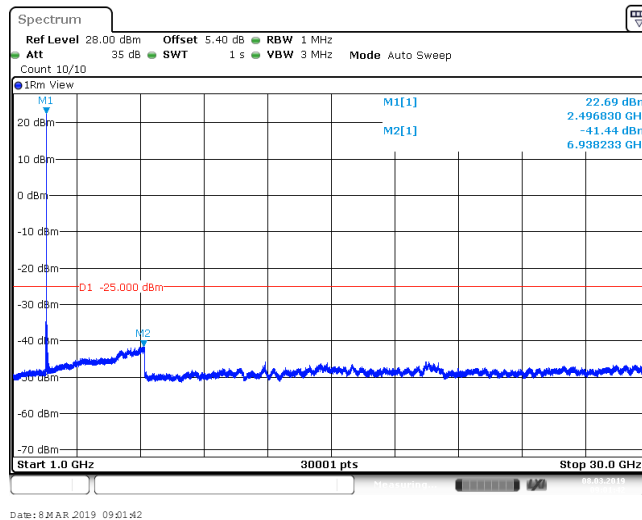


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**Band41\_20MHz\_64QAM\_39750\_1RB#0**



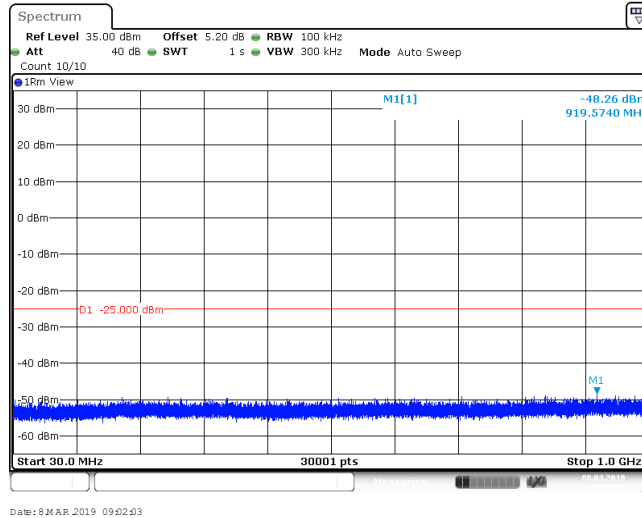
**Band41\_20MHz\_64QAM\_40620\_1RB#0**



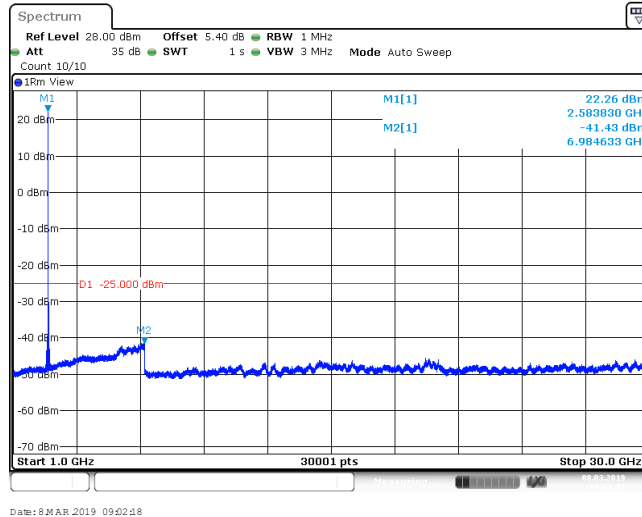
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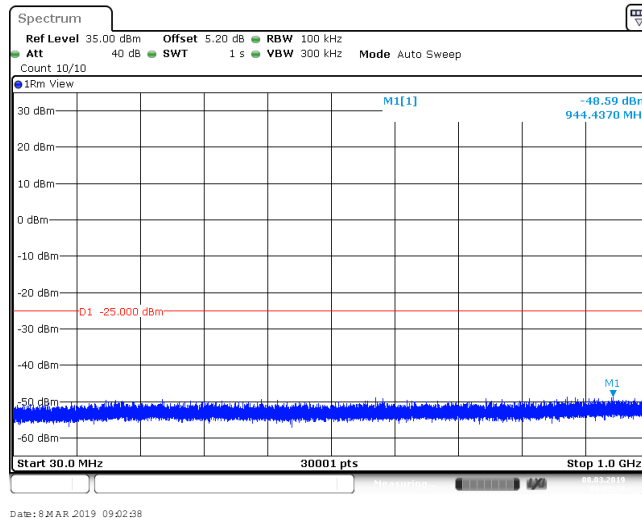
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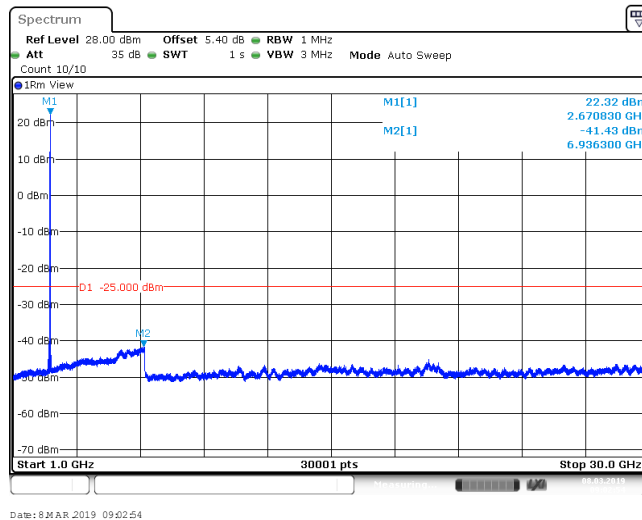
**Band41\_20MHz\_64QAM\_41490\_1RB#0**



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**Band41\_20MHz\_64QAM\_41490\_1RB#0**

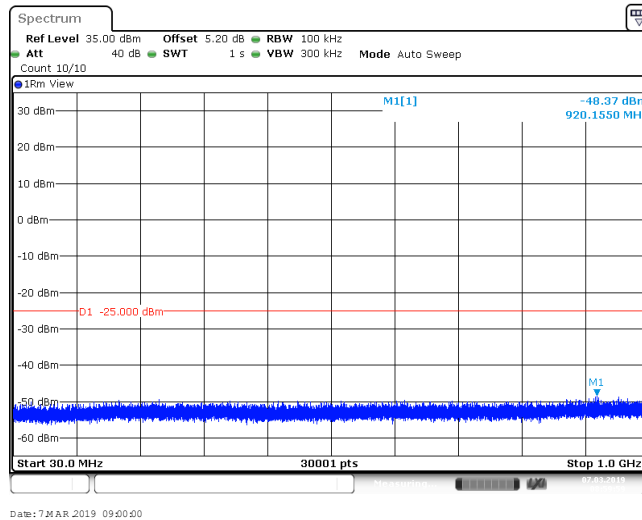


**Band41\_20MHz\_16QAM\_39750\_1RB#0**

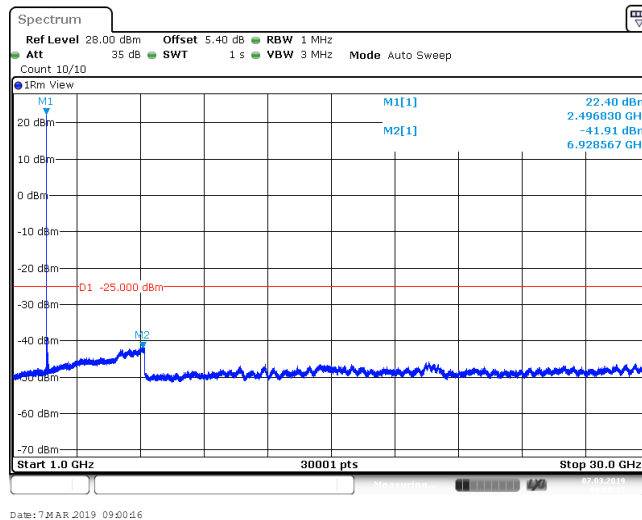


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**Band41\_20MHz\_16QAM\_39750\_1RB#0**

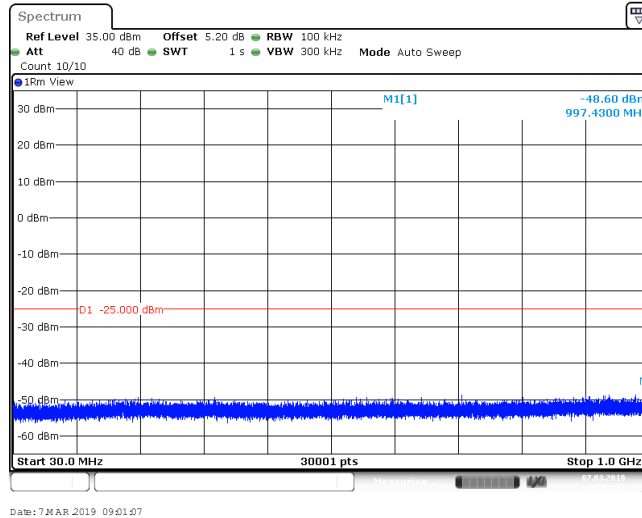


**Band41\_20MHz\_16QAM\_40620\_1RB#0**



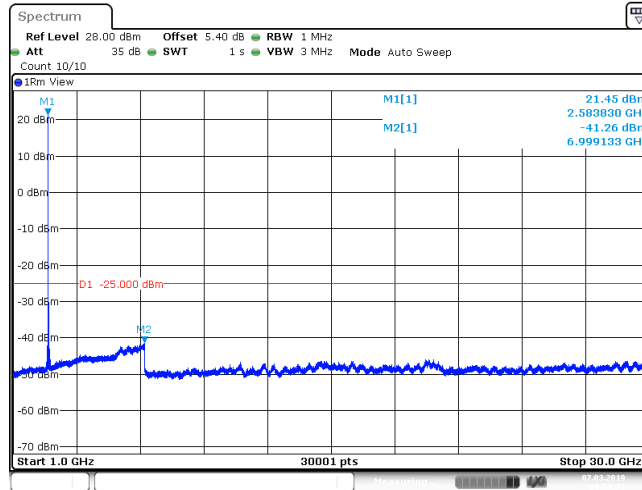
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Date: 7 MAR 2019 09:21:27

**Band41\_20MHz\_16QAM\_40620\_1RB#0**



Date: 7 MAR 2019 09:21:24

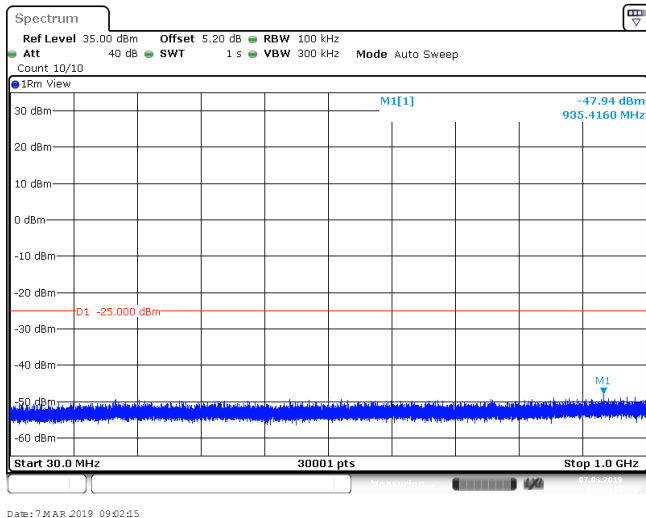
**Band41\_20MHz\_16QAM\_41490\_1RB#0**



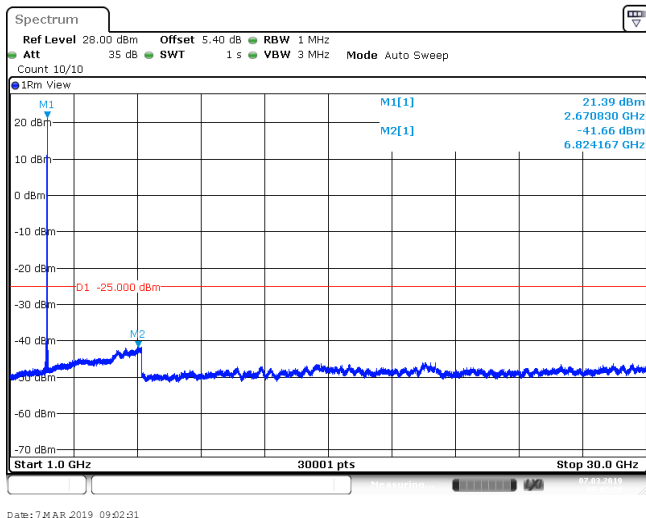
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## 7. Field Strength of Spurious Radiation

### 7.1 Test BAND = LTE BAND 41

#### 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
63.600000	-81.42	-25.00	56.42	Vertical
202.450000	-80.98	-25.00	55.98	Vertical
555.508333	-81.05	-25.00	56.05	Vertical
4994.200000	-53.03	-25.00	28.03	Vertical
7490.850000	-52.38	-25.00	27.38	Vertical
12485.450000	-58.68	-25.00	33.68	Vertical
62.500000	-77.35	-25.00	52.35	Horizontal
179.200000	-74.42	-25.00	49.42	Horizontal
275.200000	-74.46	-25.00	49.46	Horizontal
4994.200000	-56.39	-25.00	31.39	Horizontal
7491.825000	-60.09	-25.00	35.09	Horizontal
10645.625000	-63.37	-25.00	38.37	Horizontal

##### 7.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.000000	-81.86	-25.00	56.86	Vertical
204.950000	-80.51	-25.00	55.51	Vertical
326.400000	-80.20	-25.00	55.20	Vertical
5167.750000	-54.90	-25.00	29.90	Vertical
7752.800000	-54.66	-25.00	29.66	Vertical
10647.900000	-63.34	-25.00	38.34	Vertical
62.500000	-77.49	-25.00	52.49	Horizontal
178.100000	-75.48	-25.00	50.48	Horizontal
277.350000	-75.12	-25.00	50.12	Horizontal



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5168.075000	-55.83	-25.00	30.83	Horizontal
7752.150000	-56.30	-25.00	31.30	Horizontal
10609.875000	-63.37	-25.00	38.37	Horizontal

**7.1.1.3 Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.900000	-81.21	-25.00	56.21	Vertical
209.200000	-78.29	-25.00	53.29	Vertical
326.450000	-80.82	-25.00	55.82	Vertical
5341.950000	-55.90	-25.00	30.90	Vertical
8013.125000	-47.89	-25.00	22.89	Vertical
10650.500000	-63.72	-25.00	38.72	Vertical
63.200000	-77.88	-25.00	52.88	Horizontal
208.050000	-73.53	-25.00	48.53	Horizontal
296.550000	-74.18	-25.00	49.18	Horizontal
5341.950000	-61.73	-25.00	36.73	Horizontal
8012.800000	-57.63	-25.00	32.63	Horizontal
10645.625000	-63.43	-25.00	38.43	Horizontal

Remark:

- 1) The disturbance above 12.75GHz and 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.
- 2) 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

BAND	Bandwidth	Modulation	Channel	Voltage							Verdict
				RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	-0.20	-0.000080	±2.5	PASS	
				100RB#0	VN	NT	0.20	0.000080	±2.5	PASS	
				100RB#0	VH	NT	1.40	0.000559	±2.5	PASS	
			40620	100RB#0	VL	NT	-2.30	-0.000887	±2.5	PASS	
				100RB#0	VN	NT	-2.30	-0.000887	±2.5	PASS	
				100RB#0	VH	NT	0.70	0.000270	±2.5	PASS	
			41490	100RB#0	VL	NT	0.30	0.000112	±2.5	PASS	
				100RB#0	VN	NT	1.90	0.000709	±2.5	PASS	
				100RB#0	VH	NT	-4.90	-0.001828	±2.5	PASS	
		64QAM	39750	100RB#0	VL	NT	0.30	0.000120	±2.5	PASS	
				100RB#0	VN	NT	28.50	0.011373	±2.5	PASS	
				100RB#0	VH	NT	16.50	0.006584	±2.5	PASS	
			40620	100RB#0	VL	NT	11.50	0.004435	±2.5	PASS	
				100RB#0	VN	NT	21.50	0.008292	±2.5	PASS	
				100RB#0	VH	NT	-7.10	-0.002738	±2.5	PASS	
			41490	100RB#0	VL	NT	6.10	0.002276	±2.5	PASS	
				100RB#0	VN	NT	-8.50	-0.003172	±2.5	PASS	
				100RB#0	VH	NT	-3.60	-0.001343	±2.5	PASS	
		16QAM	39750	100RB#0	VL	NT	-3.00	-0.001197	±2.5	PASS	
				100RB#0	VN	NT	1.50	0.000599	±2.5	PASS	
				100RB#0	VH	NT	0.00	0.000000	±2.5	PASS	
			40620	100RB#0	VL	NT	1.70	0.000656	±2.5	PASS	
				100RB#0	VN	NT	-2.80	-0.001080	±2.5	PASS	
				100RB#0	VH	NT	-2.60	-0.001003	±2.5	PASS	
41490	100RB#0		VL	NT	-4.40	-0.001642	±2.5	PASS			
	100RB#0		VN	NT	-3.10	-0.001157	±2.5	PASS			
	100RB#0		VH	NT	-3.50	-0.001306	±2.5	PASS			

### 8.2 Frequency Vs Temperature

BAND	Bandwidth	Modulation	Channel	Temperature							Verdict
				RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
Band41	20MHz	QPSK	39750	100RB#0	NV	-30	0.20	0.000080	±2.5	PASS	
				100RB#0	NV	-20	-3.30	-0.001317	±2.5	PASS	
				100RB#0	NV	0	-3.70	-0.001476	±2.5	PASS	
				100RB#0	NV	10	0.10	0.000040	±2.5	PASS	
				100RB#0	NV	20	-0.10	-0.000040	±2.5	PASS	



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			40620	100RB#0	NV	30	-3.80	-0.001516	±2.5	PASS	
				100RB#0	NV	40	0.00	0.000000	±2.5	PASS	
				100RB#0	NV	50	1.10	0.000439	±2.5	PASS	
				100RB#0	NV	-30	-1.60	-0.000617	±2.5	PASS	
				100RB#0	NV	-20	-1.50	-0.000578	±2.5	PASS	
				100RB#0	NV	0	-2.60	-0.001003	±2.5	PASS	
				100RB#0	NV	10	2.40	0.000926	±2.5	PASS	
				100RB#0	NV	20	2.60	0.001003	±2.5	PASS	
				100RB#0	NV	30	1.30	0.000501	±2.5	PASS	
				100RB#0	NV	40	1.30	0.000501	±2.5	PASS	
				100RB#0	NV	50	1.10	0.000424	±2.5	PASS	
				100RB#0	NV	-30	0.80	0.000299	±2.5	PASS	
			41490	100RB#0	NV	-20	-3.60	-0.001343	±2.5	PASS	
				100RB#0	NV	0	-3.10	-0.001157	±2.5	PASS	
				100RB#0	NV	10	1.90	0.000709	±2.5	PASS	
				100RB#0	NV	20	-2.60	-0.000970	±2.5	PASS	
				100RB#0	NV	30	2.00	0.000746	±2.5	PASS	
				100RB#0	NV	40	-1.50	-0.000560	±2.5	PASS	
				100RB#0	NV	50	0.10	0.000037	±2.5	PASS	
				100RB#0	NV	-30	21.00	0.008380	±2.5	PASS	
			39750	100RB#0	NV	-20	2.90	0.001157	±2.5	PASS	
				100RB#0	NV	0	-0.70	-0.000279	±2.5	PASS	
				100RB#0	NV	10	-7.70	-0.003073	±2.5	PASS	
				100RB#0	NV	20	19.20	0.007662	±2.5	PASS	
				100RB#0	NV	30	-26.30	-0.010495	±2.5	PASS	
				100RB#0	NV	40	5.90	0.002354	±2.5	PASS	
				100RB#0	NV	50	-21.90	-0.008739	±2.5	PASS	
				100RB#0	NV	-30	-6.20	-0.002391	±2.5	PASS	
				100RB#0	NV	-20	-2.10	-0.000810	±2.5	PASS	
				40620	100RB#0	NV	0	20.40	0.007867	±2.5	PASS
					100RB#0	NV	10	5.80	0.002237	±2.5	PASS
					100RB#0	NV	20	0.00	0.000000	±2.5	PASS
			100RB#0		NV	30	1.40	0.000540	±2.5	PASS	
			100RB#0		NV	40	9.50	0.003664	±2.5	PASS	
			100RB#0		NV	50	19.40	0.007482	±2.5	PASS	
			100RB#0		NV	-30	-1.90	-0.000709	±2.5	PASS	
			100RB#0		NV	-20	14.80	0.005522	±2.5	PASS	
			41490	100RB#0	NV	0	4.60	0.001716	±2.5	PASS	
				100RB#0	NV	10	10.90	0.004067	±2.5	PASS	
				100RB#0	NV	20	6.60	0.002463	±2.5	PASS	
100RB#0	NV	30		10.30	0.003843	±2.5	PASS				
100RB#0	NV	40		11.90	0.004440	±2.5	PASS				
100RB#0	NV	50		-5.10	-0.001903	±2.5	PASS				
100RB#0	NV	-30		-3.30	-0.001317	±2.5	PASS				
100RB#0	NV	-20		-5.20	-0.002075	±2.5	PASS				
39750	100RB#0	NV	0	1.30	0.000519	±2.5	PASS				
	100RB#0	NV	10	-1.90	-0.000758	±2.5	PASS				

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			100RB#0	NV	20	-3.80	-0.001516	±2.5	PASS	
			100RB#0	NV	30	-4.60	-0.001836	±2.5	PASS	
			100RB#0	NV	40	-3.20	-0.001277	±2.5	PASS	
			100RB#0	NV	50	-5.00	-0.001995	±2.5	PASS	
		40620	100RB#0	NV	-30	-2.20	-0.000848	±2.5	PASS	
			100RB#0	NV	-20	1.90	0.000733	±2.5	PASS	
			100RB#0	NV	0	-2.70	-0.001041	±2.5	PASS	
			100RB#0	NV	10	3.30	0.001273	±2.5	PASS	
			100RB#0	NV	20	-3.10	-0.001196	±2.5	PASS	
			100RB#0	NV	30	-2.00	-0.000771	±2.5	PASS	
			100RB#0	NV	40	2.80	0.001080	±2.5	PASS	
			100RB#0	NV	50	-2.10	-0.000810	±2.5	PASS	
			41490	100RB#0	NV	-30	-0.10	-0.000037	±2.5	PASS
				100RB#0	NV	-20	1.70	0.000634	±2.5	PASS
		100RB#0		NV	0	1.40	0.000522	±2.5	PASS	
		100RB#0		NV	10	0.50	0.000187	±2.5	PASS	
		100RB#0		NV	20	-0.20	-0.000075	±2.5	PASS	
		100RB#0		NV	30	0.50	0.000187	±2.5	PASS	
		100RB#0		NV	40	-4.30	-0.001604	±2.5	PASS	
		100RB#0		NV	50	0.00	0.000000	±2.5	PASS	

The End



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