

# Appendix B

## E-UTRA BAND 41



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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	25.85	28.78	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	25.68	28.61	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	25.79	28.72	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#0	24.79	27.72	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#6	24.73	27.66	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#13	24.87	27.80	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	24.69	27.62	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	25.78	28.71	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	25.80	28.73	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	25.58	28.51	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#0	24.73	27.66	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#6	24.64	27.57	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#13	24.62	27.55	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	24.68	27.61	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	25.64	28.57	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	25.62	28.55	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	25.45	28.38	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#0	24.52	27.45	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#6	24.40	27.33	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#13	24.35	27.28	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	24.56	27.49	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	24.47	27.40	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	24.51	27.44	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	24.24	27.17	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#0	23.78	26.71	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#6	23.78	26.71	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#13	23.91	26.84	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	23.66	26.59	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	24.34	27.27	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	24.51	27.44	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	24.39	27.32	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#0	23.84	26.77	33.00	PASS



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Band41	5MHz	16QAM	40620	12RB#6	23.90	26.83	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#13	23.56	26.49	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	23.62	26.55	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	24.34	27.27	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	24.36	27.29	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	24.14	27.07	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#0	23.55	26.48	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#6	23.68	26.61	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#13	23.39	26.32	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	23.65	26.58	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	25.85	28.78	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	26.10	29.03	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	25.67	28.60	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#0	24.85	27.78	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#12	24.95	27.88	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#25	24.85	27.78	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	24.88	27.81	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	25.54	28.47	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	25.76	28.69	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	25.36	28.29	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#0	24.60	27.53	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#12	24.72	27.65	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#25	24.57	27.50	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	24.69	27.62	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	25.67	28.60	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	25.71	28.64	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	25.50	28.43	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#0	24.61	27.54	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#12	24.64	27.57	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#25	24.33	27.26	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	24.79	27.72	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	24.48	27.41	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	24.67	27.60	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	24.17	27.10	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#0	23.81	26.74	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#12	23.99	26.92	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#25	23.91	26.84	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	23.77	26.70	33.00	PASS



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Band41	10MHz	16QAM	40620	1RB#0	24.24	27.17	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	24.36	27.29	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	24.44	27.37	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#0	23.67	26.60	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#12	23.80	26.73	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#25	23.60	26.53	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	23.82	26.75	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	24.32	27.25	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	24.51	27.44	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	24.00	26.93	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#0	23.62	26.55	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#12	23.59	26.52	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#25	23.43	26.36	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	23.78	26.71	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	25.66	28.59	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	25.72	28.65	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	25.67	28.60	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#0	24.83	27.76	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#18	24.85	27.78	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#39	24.76	27.69	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	24.81	27.74	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	25.79	28.72	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	25.79	28.72	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	25.62	28.55	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#0	24.84	27.77	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#18	24.72	27.65	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#39	24.59	27.52	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	24.90	27.83	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	25.86	28.79	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	25.70	28.63	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	25.57	28.50	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#0	24.64	27.57	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#18	24.62	27.55	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#39	24.61	27.54	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	25.05	27.98	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	24.22	27.15	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	24.14	27.07	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	24.28	27.21	33.00	PASS



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Band41	15MHz	16QAM	39725	36RB#0	23.74	26.67	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#18	23.93	26.86	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#39	23.89	26.82	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	23.76	26.69	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	24.31	27.24	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	24.47	27.40	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	24.28	27.21	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#0	23.63	26.56	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#18	23.72	26.65	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#39	23.57	26.50	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	23.90	26.83	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	24.85	27.78	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	24.14	27.07	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	24.04	26.97	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#0	23.48	26.41	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#18	23.48	26.41	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#39	23.54	26.47	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	23.91	26.84	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	25.50	28.43	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	25.98	28.91	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	25.50	28.43	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#0	24.72	27.65	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#25	24.72	27.65	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#50	24.75	27.68	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	24.71	27.64	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	25.60	28.53	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	25.95	28.88	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	25.63	28.56	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#0	24.61	27.54	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#25	24.58	27.51	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#50	24.57	27.50	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	25.02	27.95	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	25.72	28.65	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	25.81	28.74	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	25.51	28.44	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#0	24.48	27.41	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#25	24.54	27.47	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#50	24.67	27.60	33.00	PASS



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Band41	20MHz	QPSK	41490	100RB#0	24.95	27.88	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	24.13	27.06	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	24.31	27.24	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	24.14	27.07	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#0	23.82	26.75	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#25	23.99	26.92	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#50	23.85	26.78	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	23.79	26.72	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	24.20	27.13	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	24.40	27.33	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	24.39	27.32	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#0	23.85	26.78	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#25	23.65	26.58	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#50	23.73	26.66	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	23.98	26.91	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	24.35	27.28	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	24.32	27.25	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	23.91	26.84	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#0	23.66	26.59	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#25	23.52	26.45	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#50	23.70	26.63	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	23.68	26.61	33.00	PASS

Remark:

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

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level



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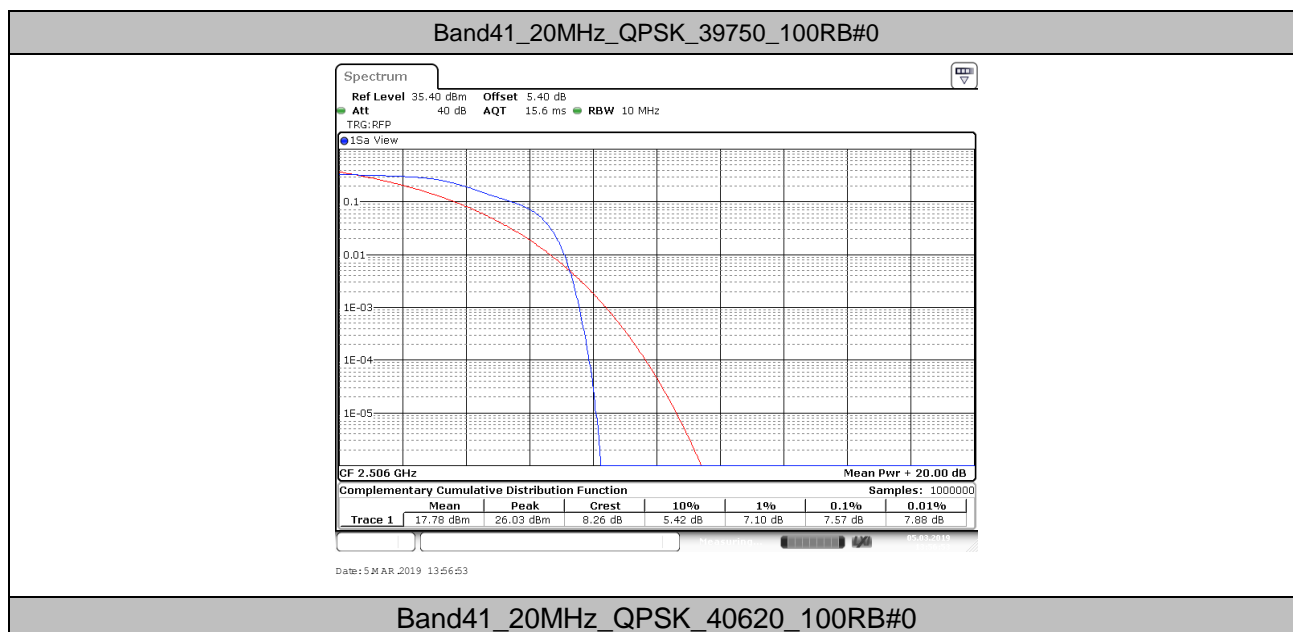


## 2. Peak-to-Average Ratio(CCDF)

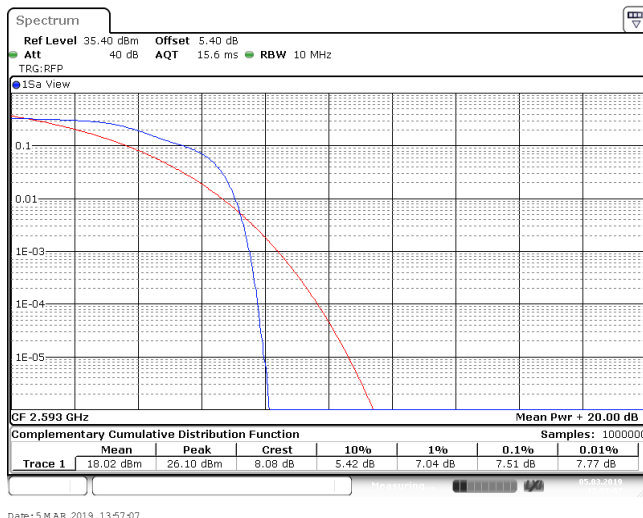
### 2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	7.57	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.51	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	7.65	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.04	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.25	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.48	13	PASS

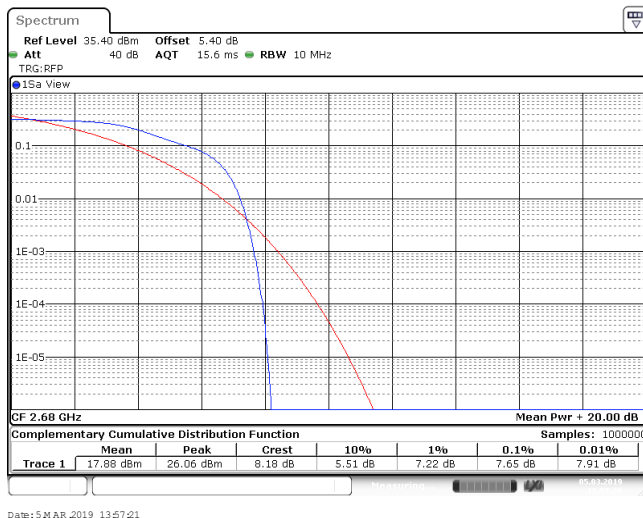
### 2.2. Test Plots





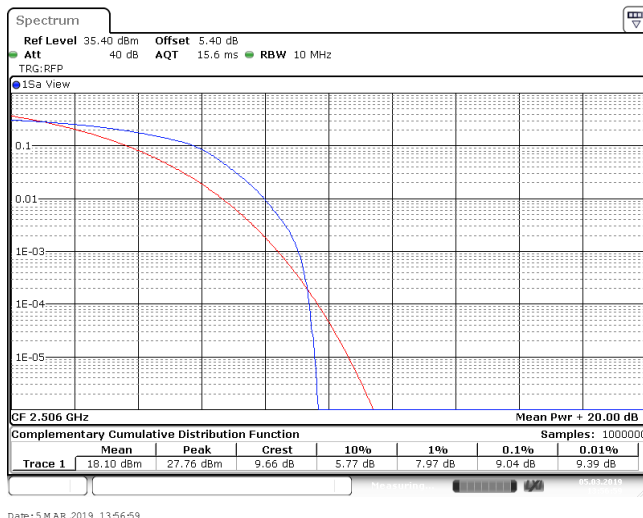


Band41\_20MHz\_QPSK\_41490\_100RB#0

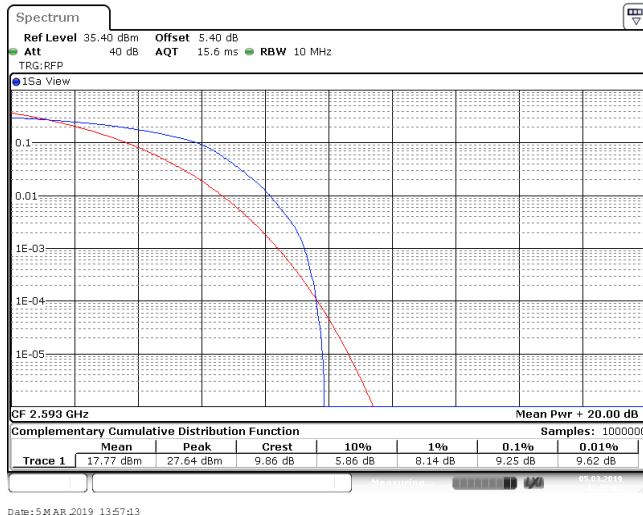


Band41\_20MHz\_16QAM\_39750\_100RB#0



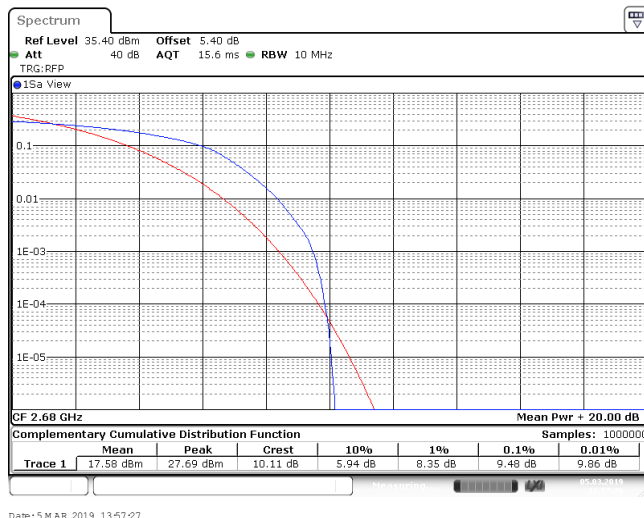


## Band41\_20MHz\_16QAM\_40620\_100RB#0



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





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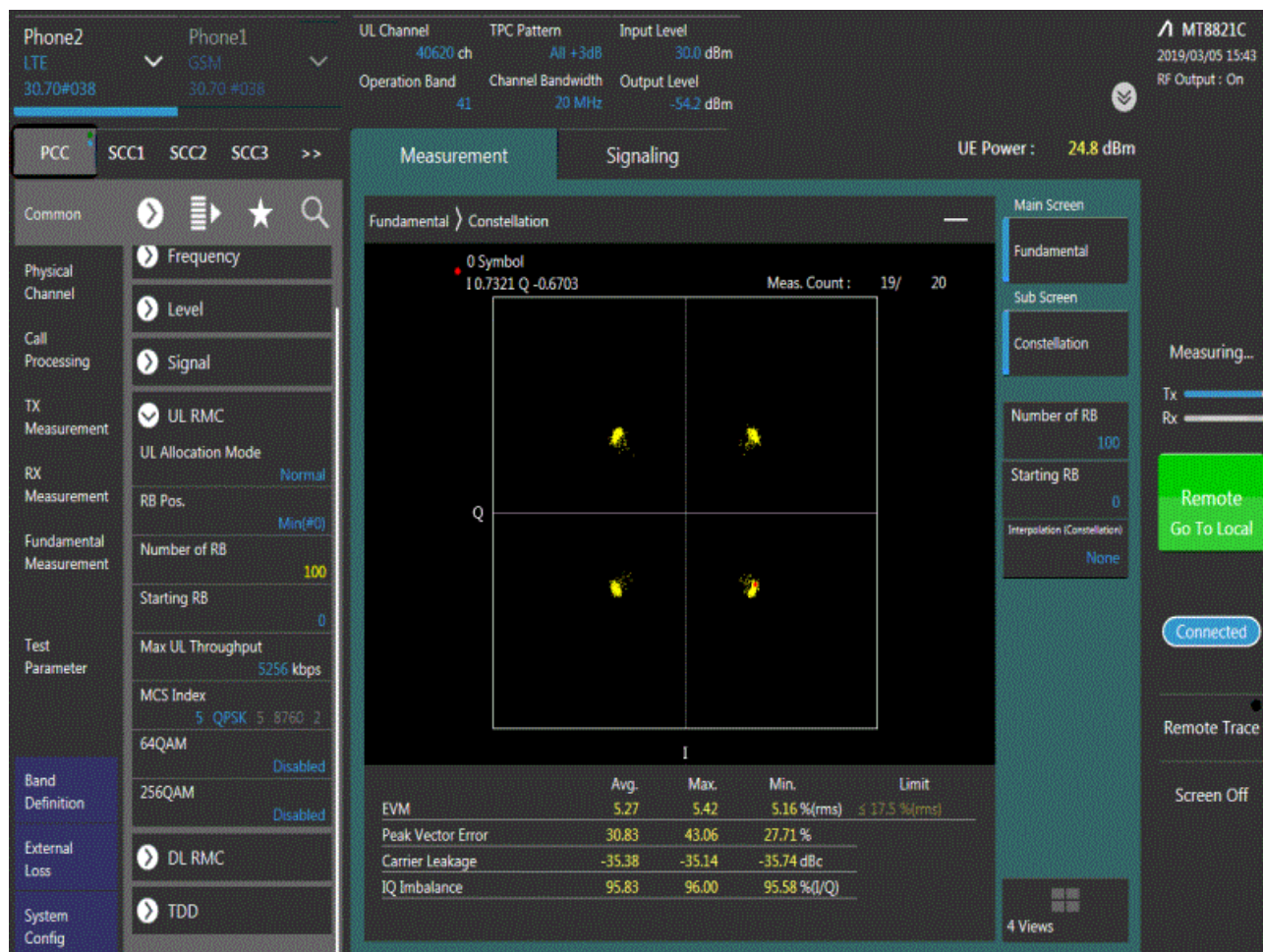
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### 3. Modulation Characteristics

#### 3.1. Test BAND = LTE BAND41

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

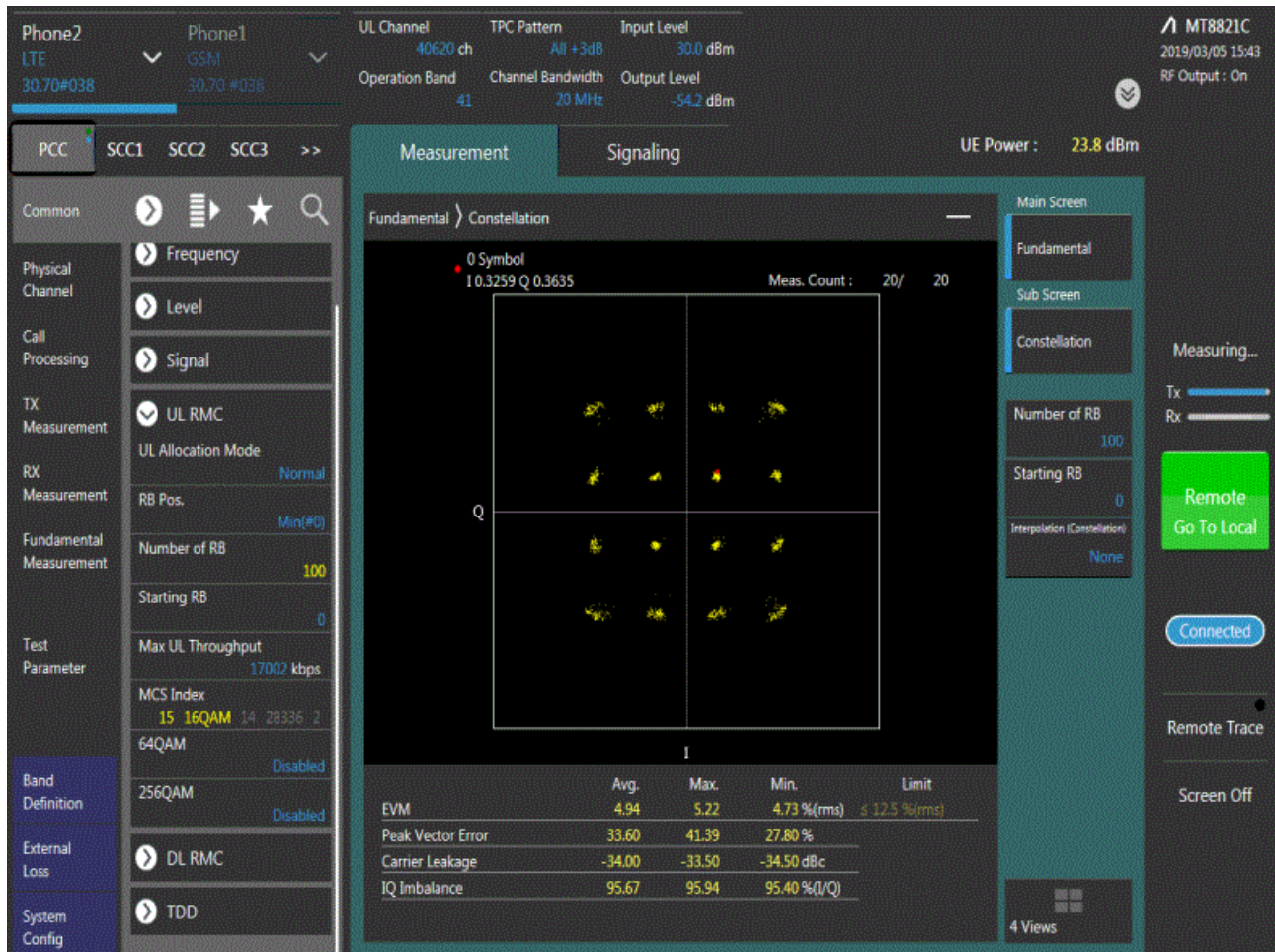
##### 3.1.1.1. Test Channel = MCH





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

#### 3.1.2.1. 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
Band41	5MHz	QPSK	39675	25RB#0	4.476	4.760	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.476	4.770	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.476	4.880	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.476	4.820	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.466	4.820	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.466	4.830	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.911	9.480	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.911	9.420	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.911	9.480	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.911	9.360	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.931	9.460	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.911	9.360	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.427	14.370	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.427	14.400	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.427	14.310	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.427	14.370	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.427	14.340	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.427	14.340	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.822	18.840	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.862	18.920	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.822	18.800	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.822	18.840	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.862	18.800	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.822	18.840	PASS



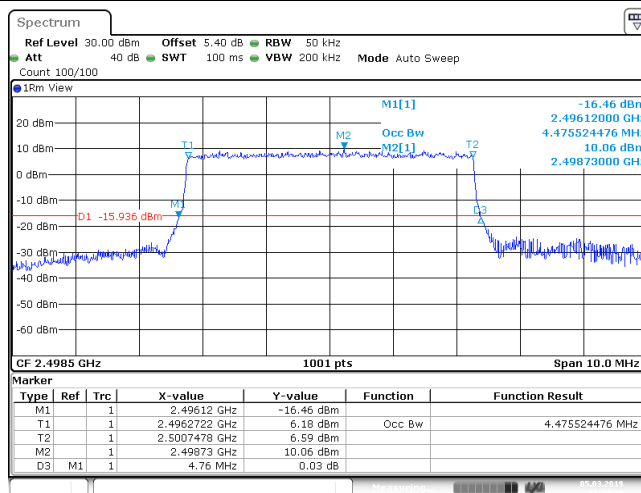
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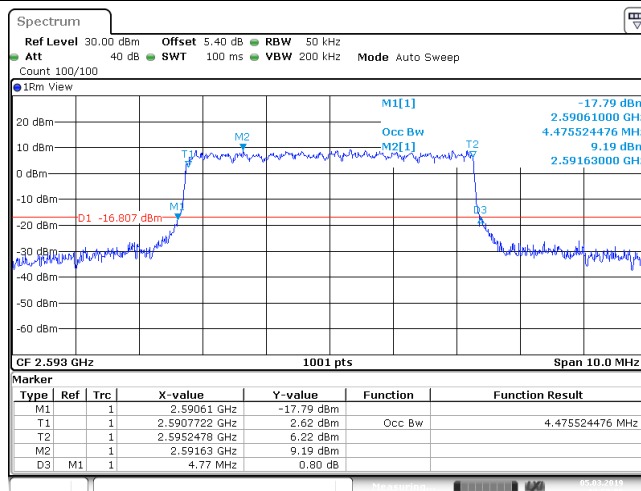
## 4.2. Test Plots

Band41\_5MHz\_QPSK\_39675\_25RB#0



Date: 5 MAR 2019 13:49:30

Band41\_5MHz\_QPSK\_40620\_25RB#0



Date: 5 MAR 2019 13:50:07

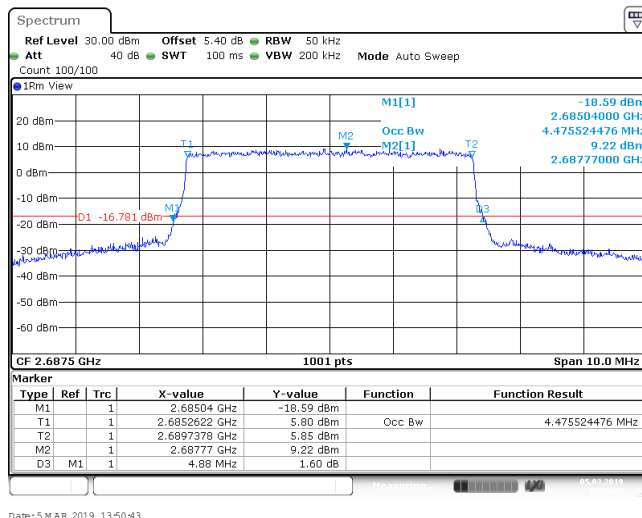
Band41\_5MHz\_QPSK\_41565\_25RB#0



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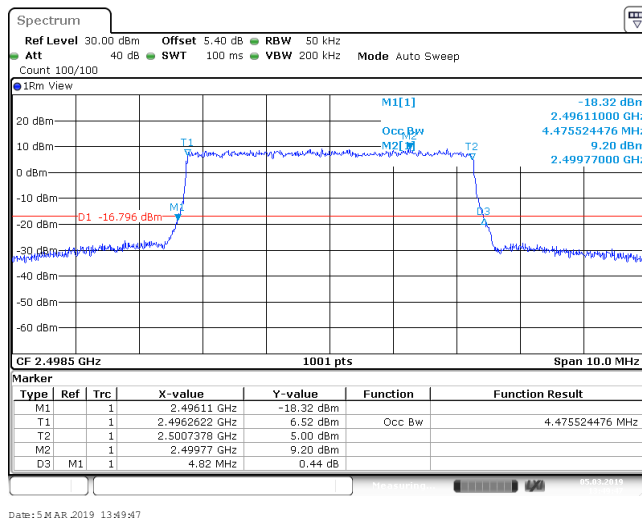
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Date: 5 MAR 2019 13:50:43

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



Date: 5 MAR 2019 13:49:47

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

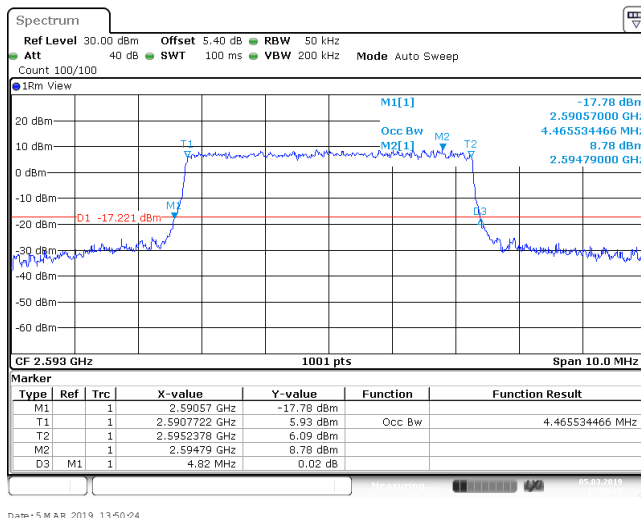


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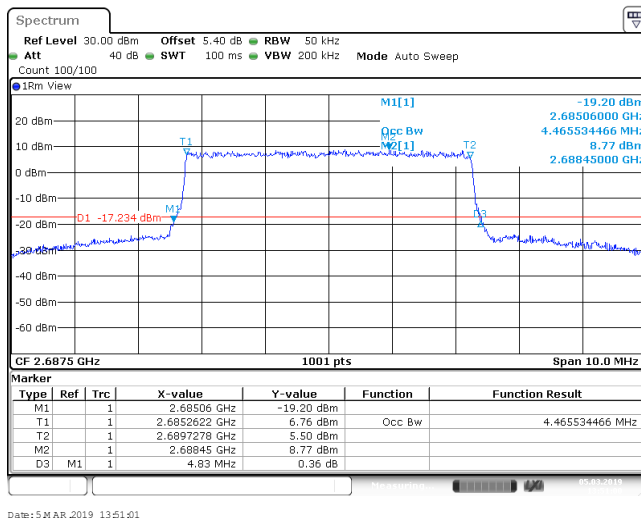
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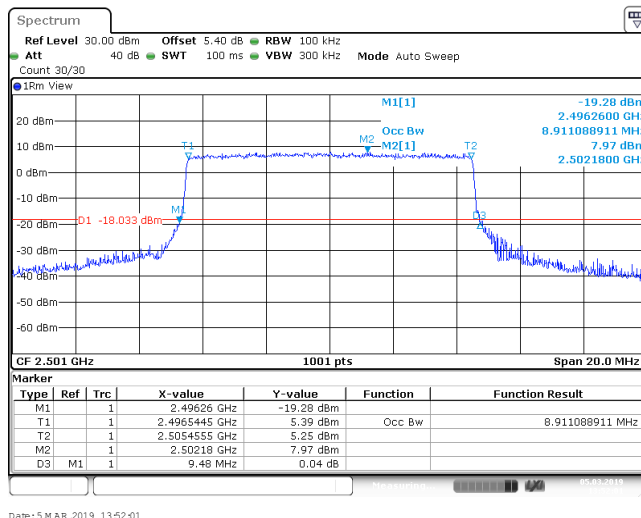


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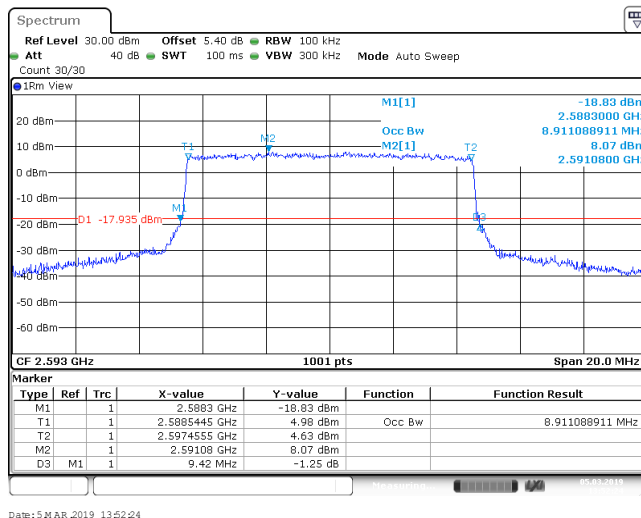


## Band41\_10MHz\_QPSK\_39700\_50RB#0





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

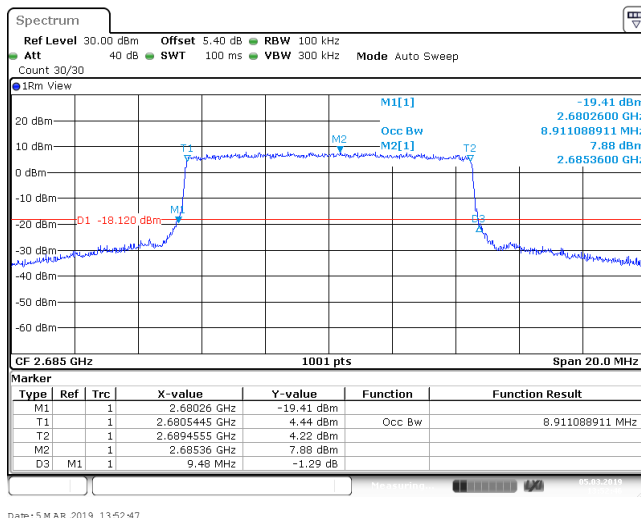


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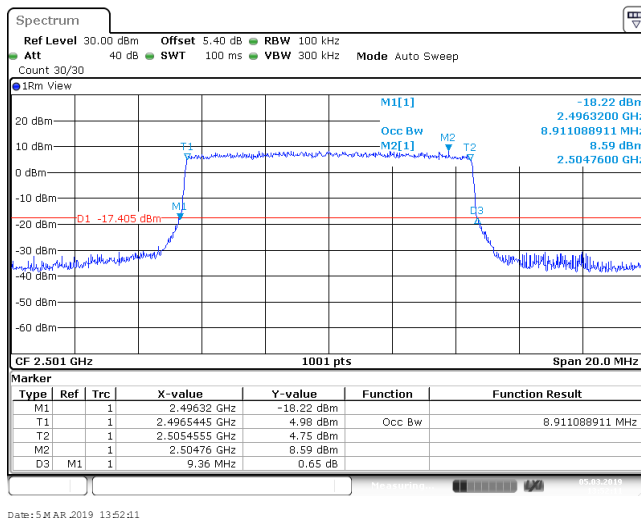


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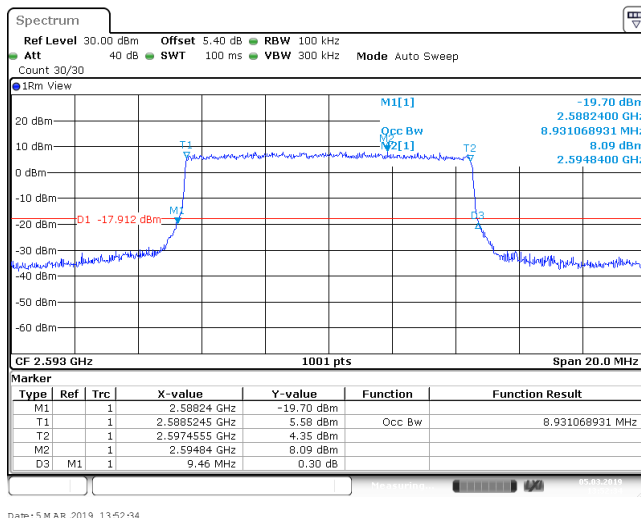


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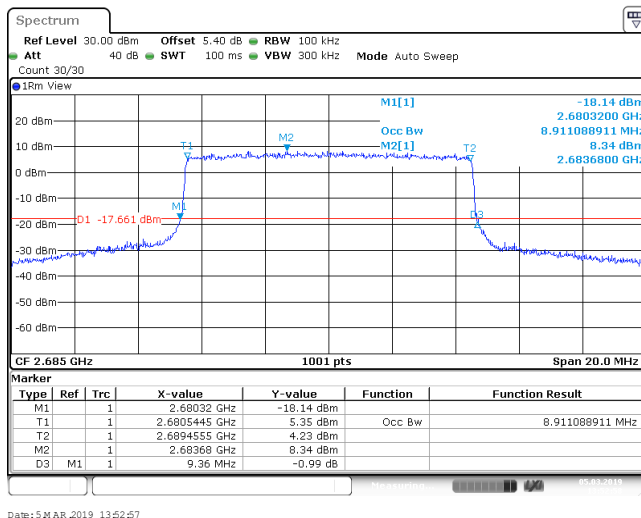


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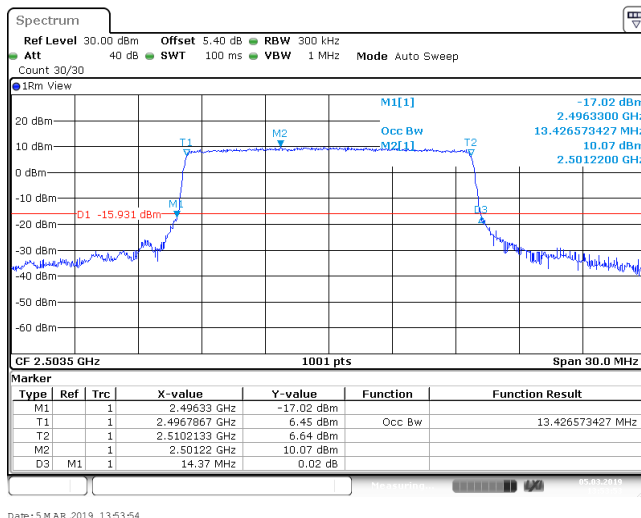
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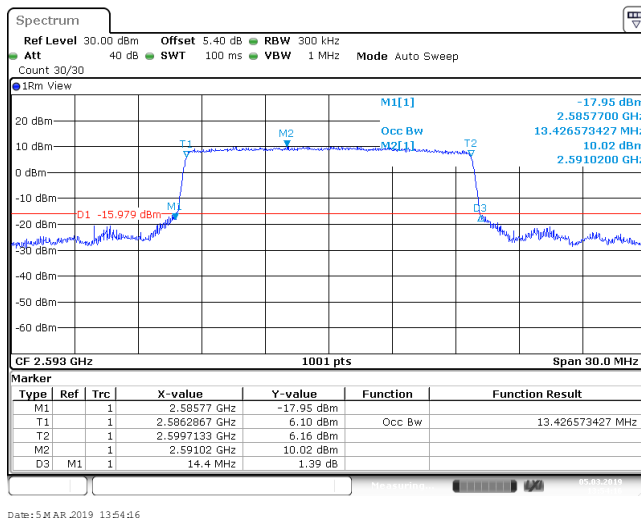
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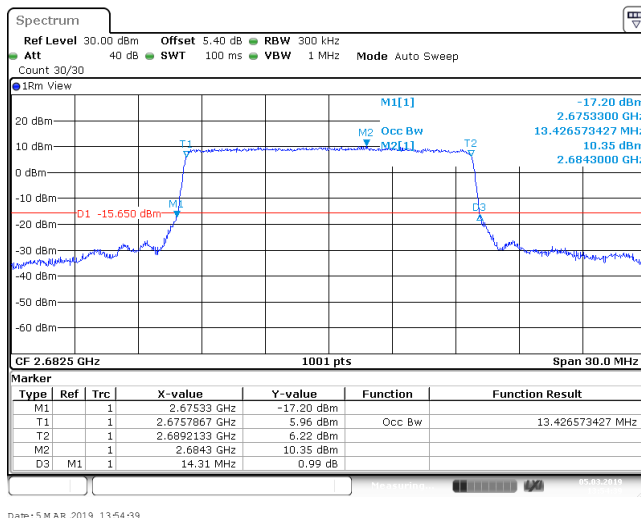


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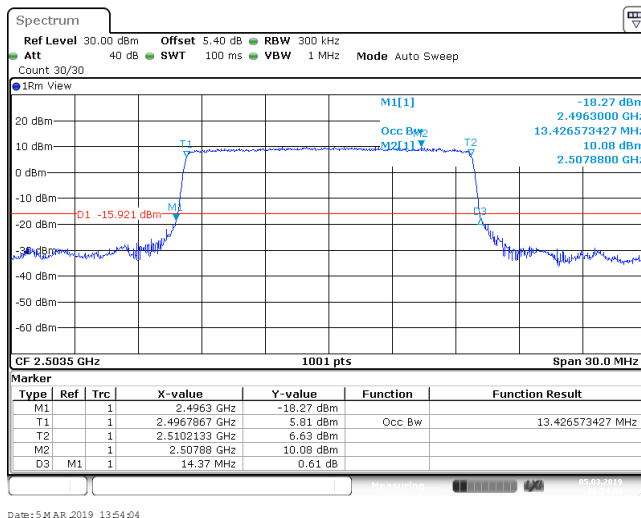


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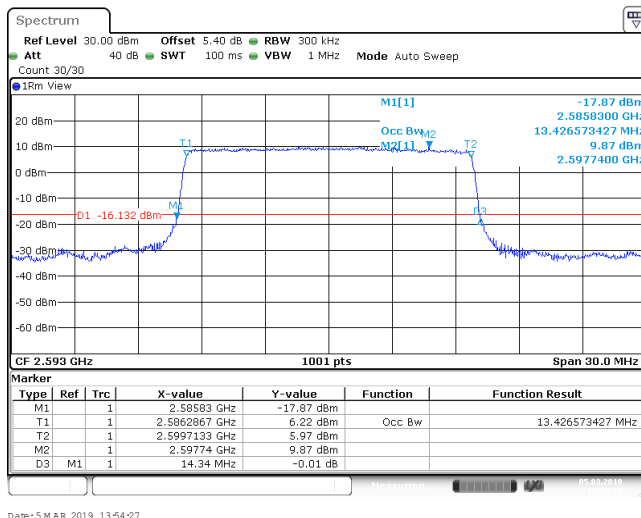


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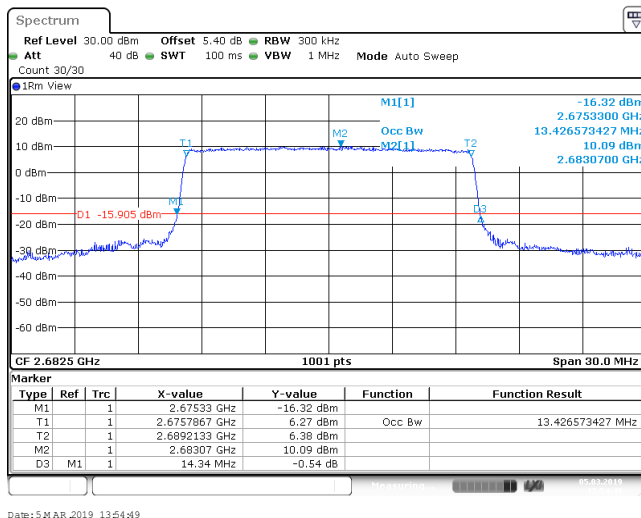


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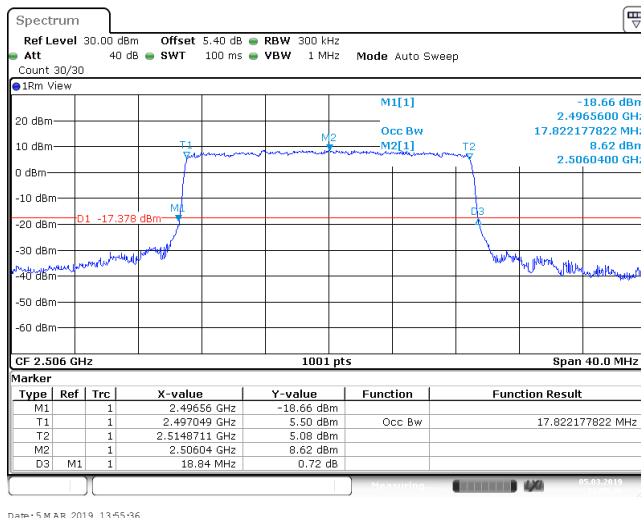


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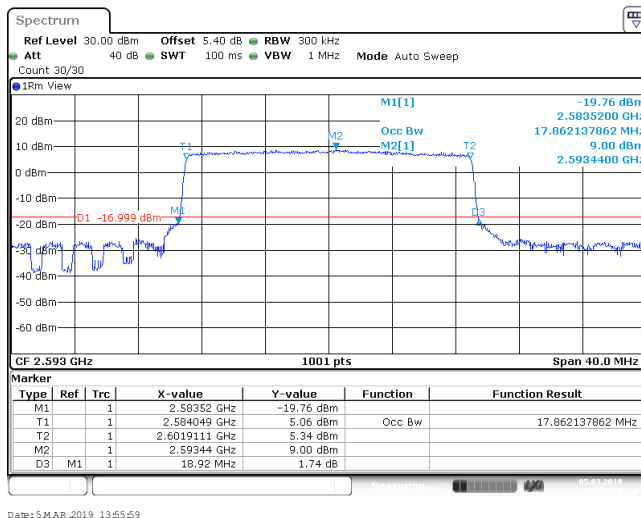


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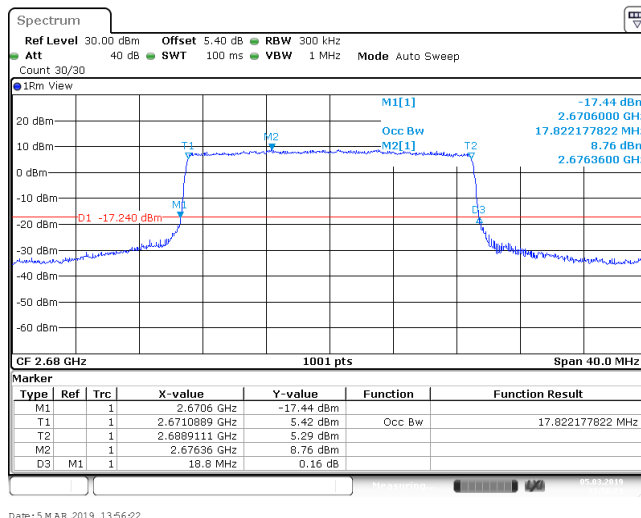
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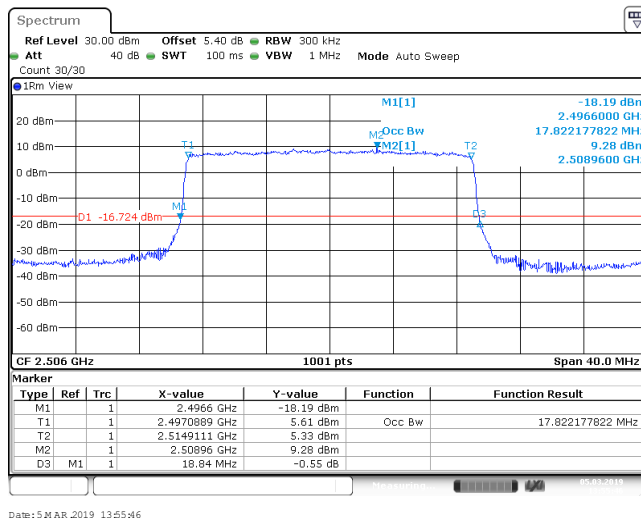
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Band41\_20MHz\_16QAM\_39750\_100RB#0

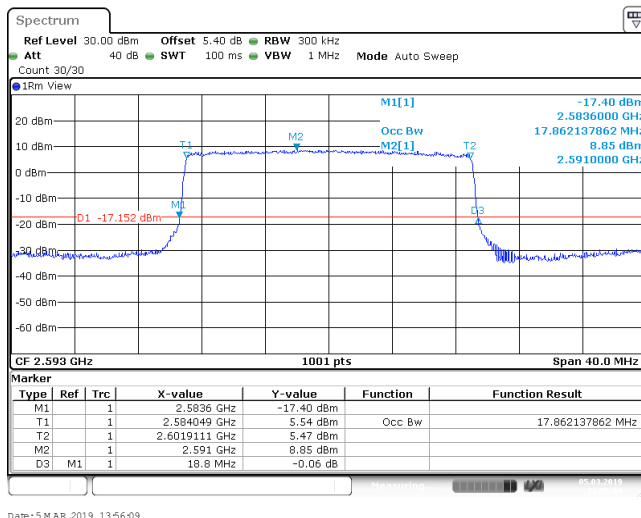


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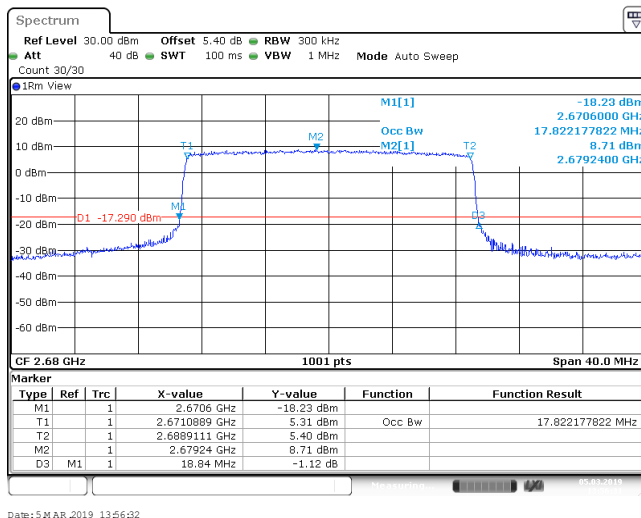


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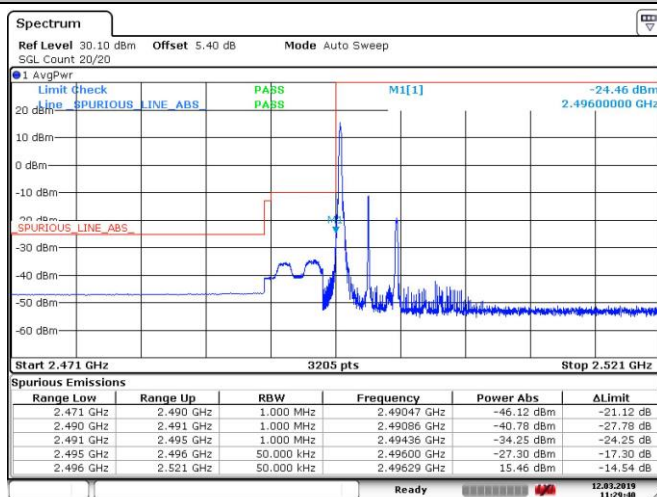
## Band41\_20MHz\_16QAM\_41490\_100RB#0



## 5. Band Edge Compliance

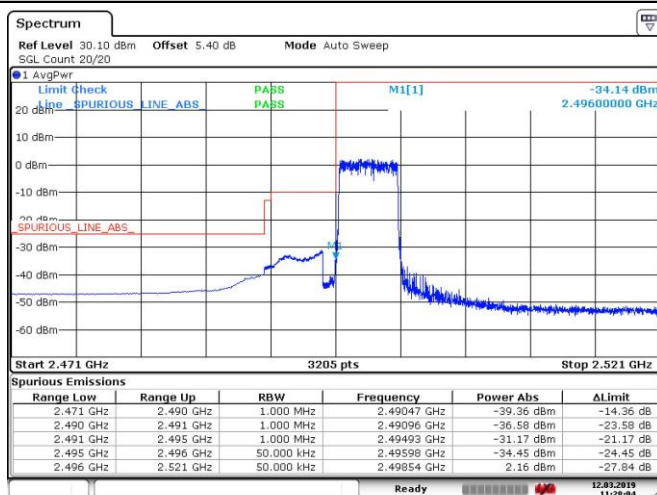
### 5.1. Test Plots

BAND 41\_5MHz\_QPSK\_39675\_1RB#0



Date: 12 MAR 2019 11:29:40

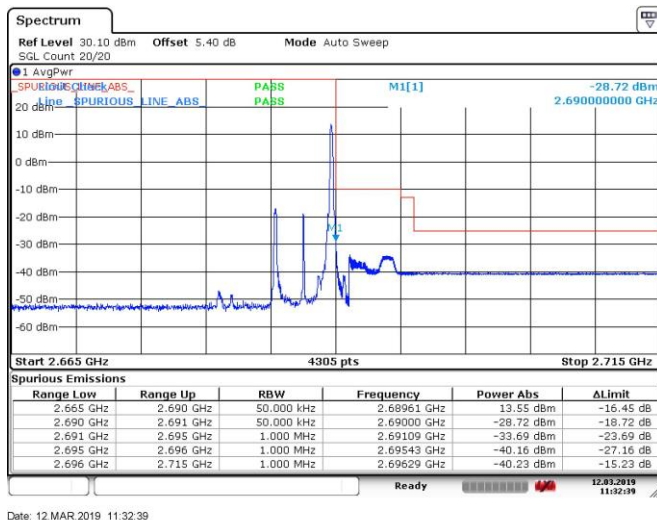
BAND 41\_5MHz\_QPSK\_39675\_25RB#0



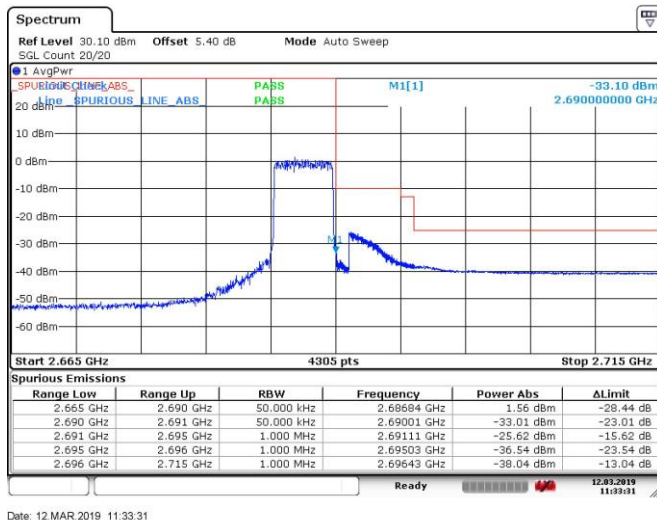
Date: 12 MAR 2019 11:28:04

BAND 41\_5MHz\_QPSK\_41565\_1RB#24





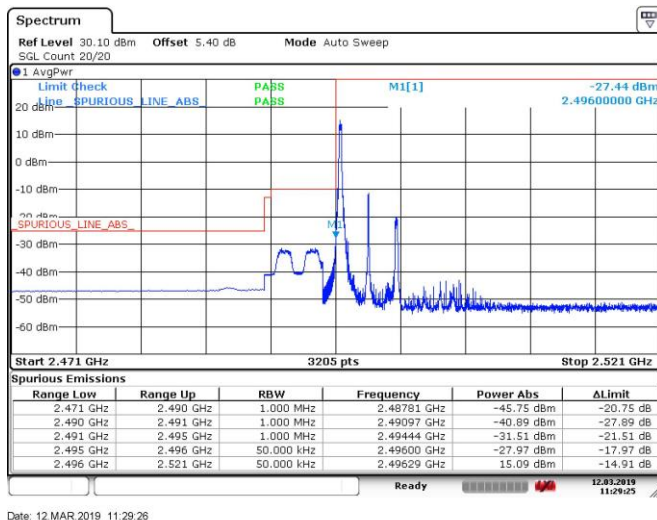
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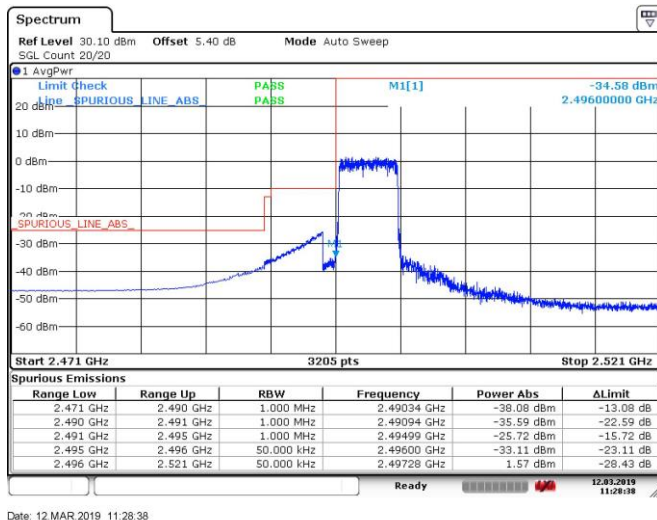
## BAND 41\_5MHz\_16QAM\_39675\_1RB#0





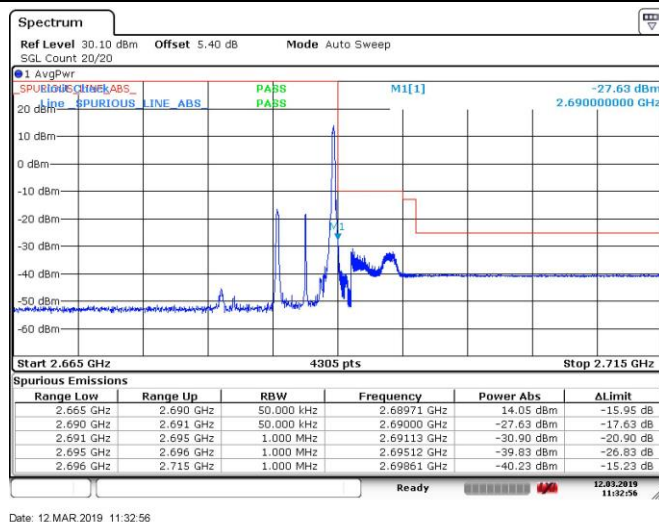


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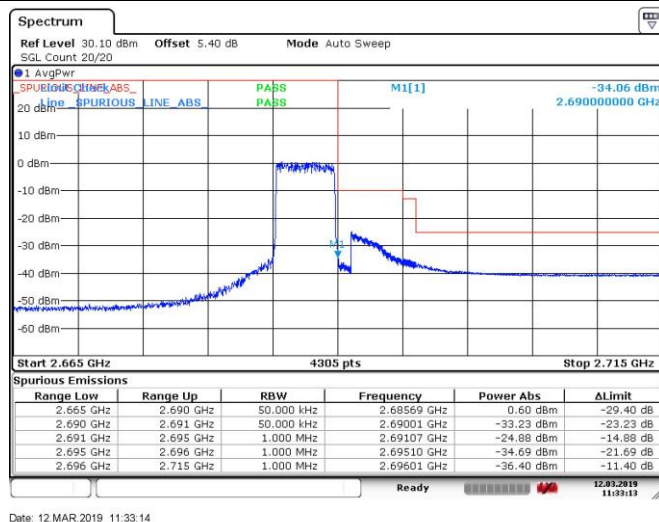


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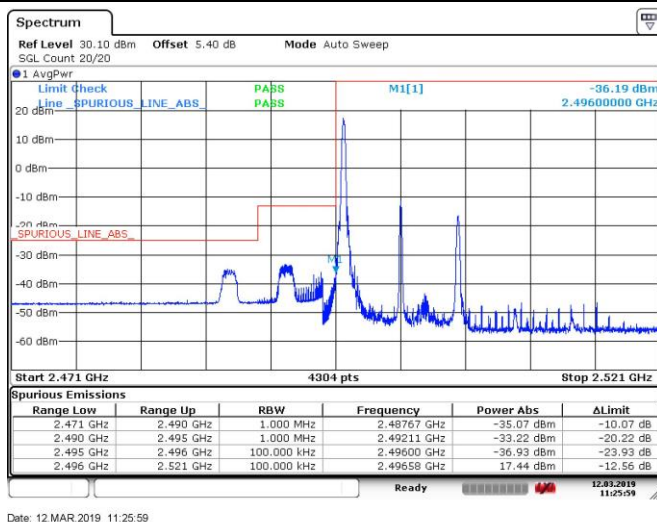


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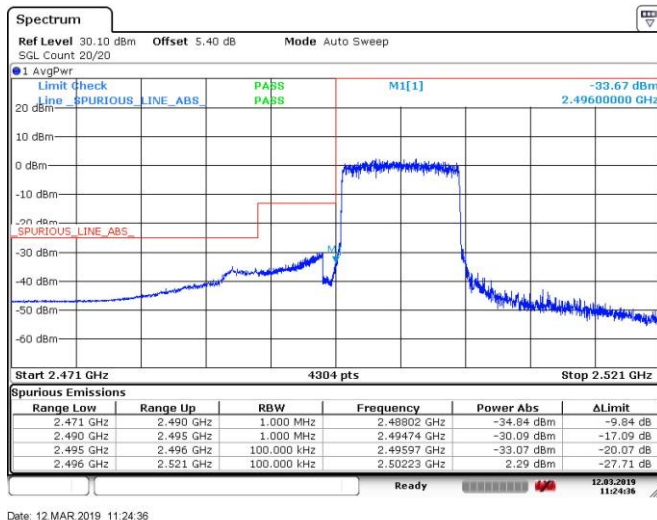


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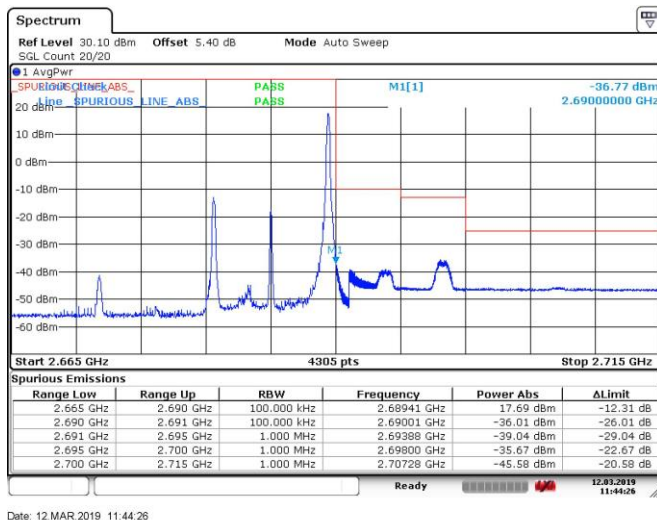


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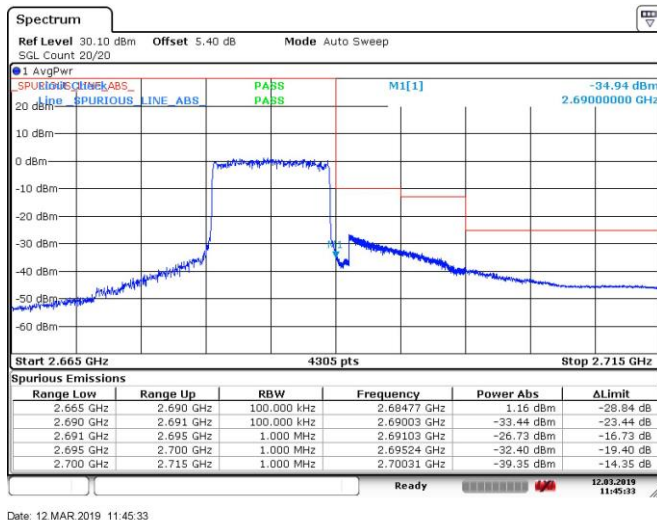


## BAND 41\_10MHz\_QPSK\_41540\_1RB#49





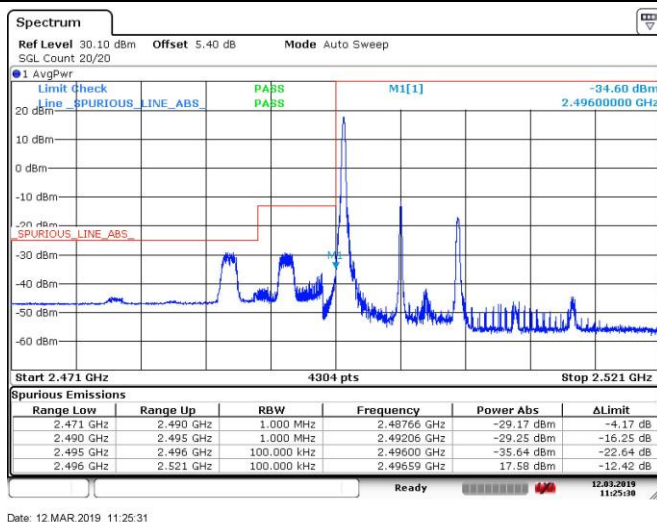
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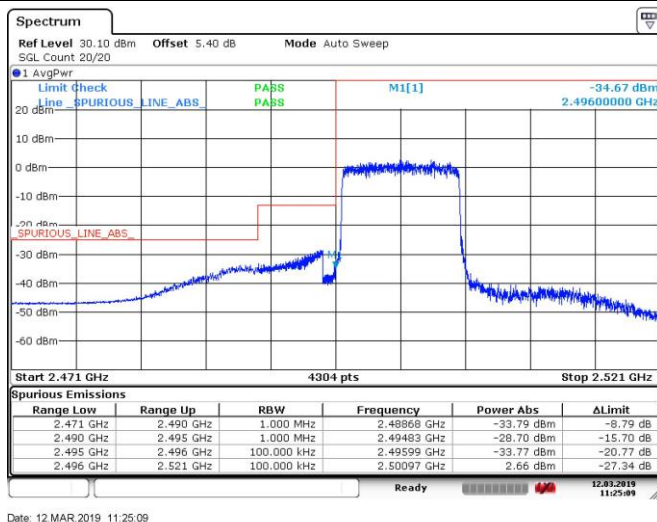
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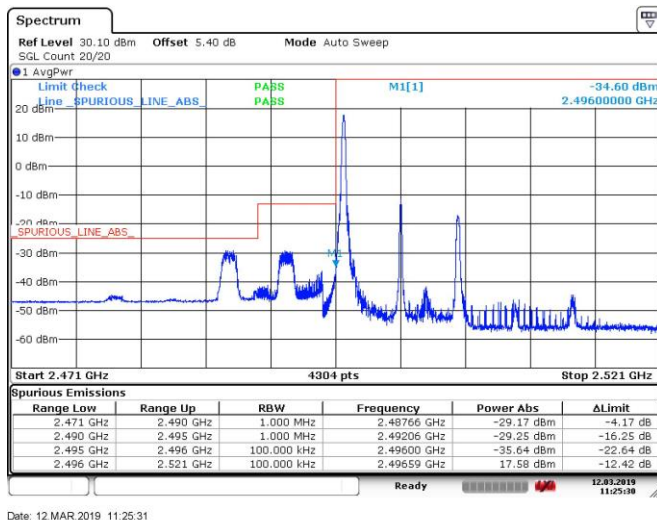


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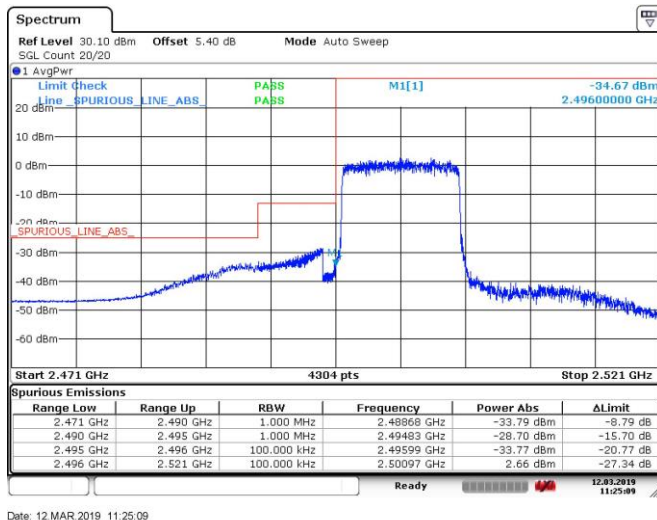


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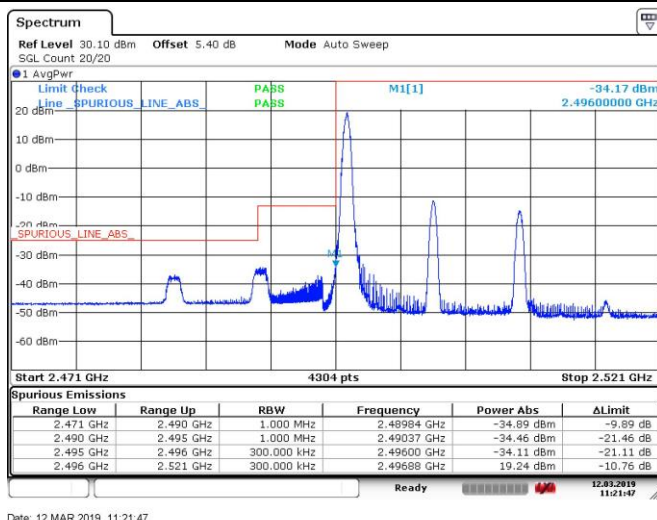


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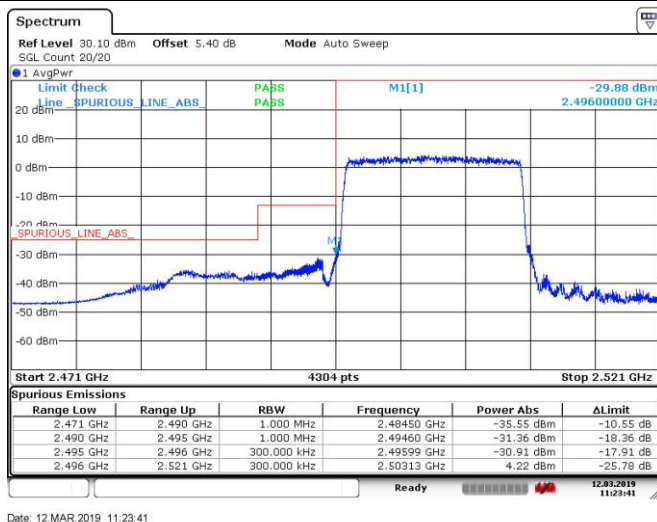


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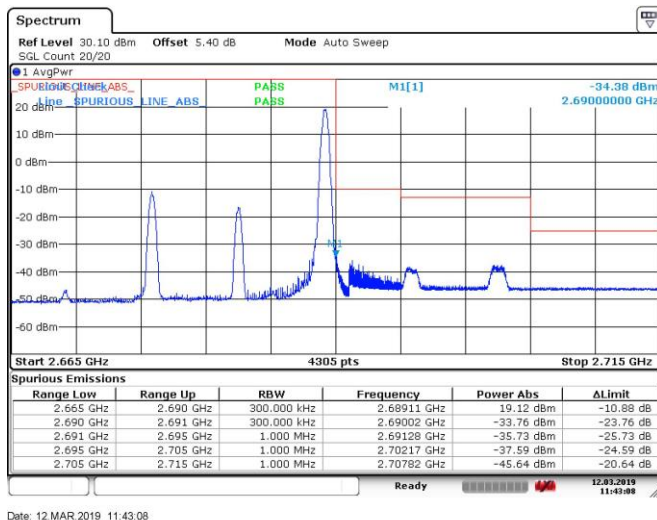


## BAND 41\_15MHz\_QPSK\_39725\_75RB#0

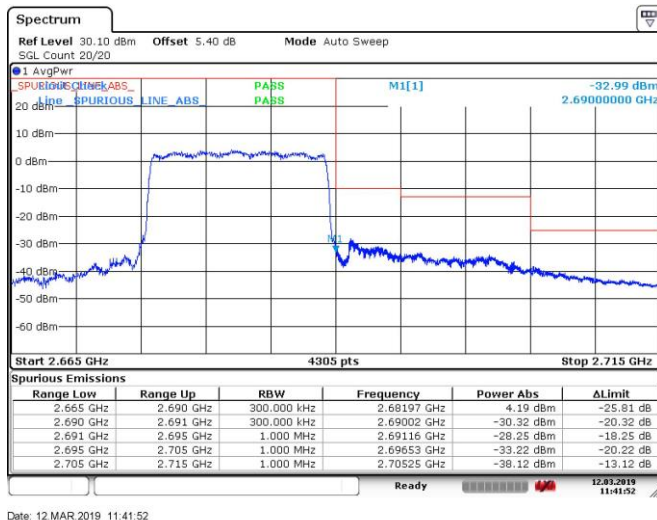


## BAND 41\_15MHz\_QPSK\_41515\_1RB#74





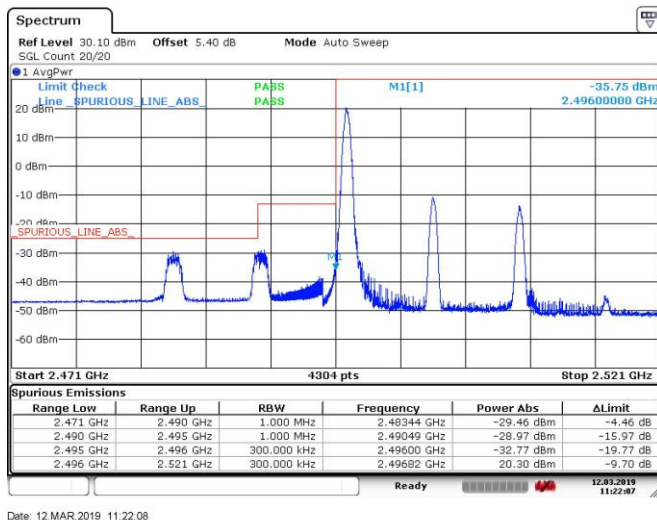
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## BAND 41\_15MHz\_16QAM\_39725\_1RB#0

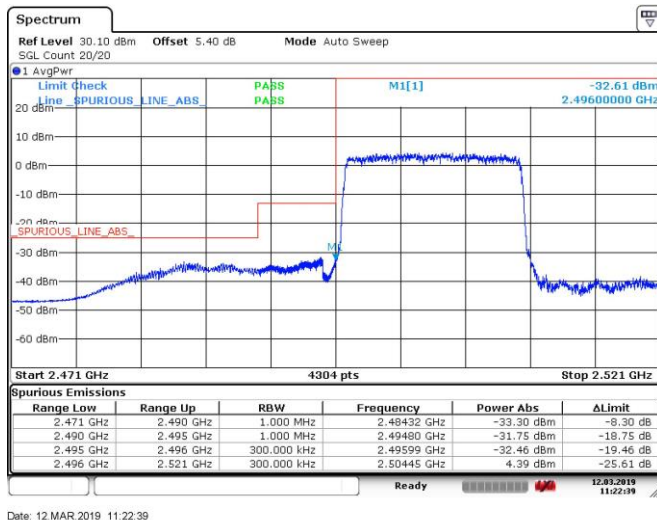






Date: 12 MAR 2019 11:22:08

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



Date: 12 MAR 2019 11:22:39

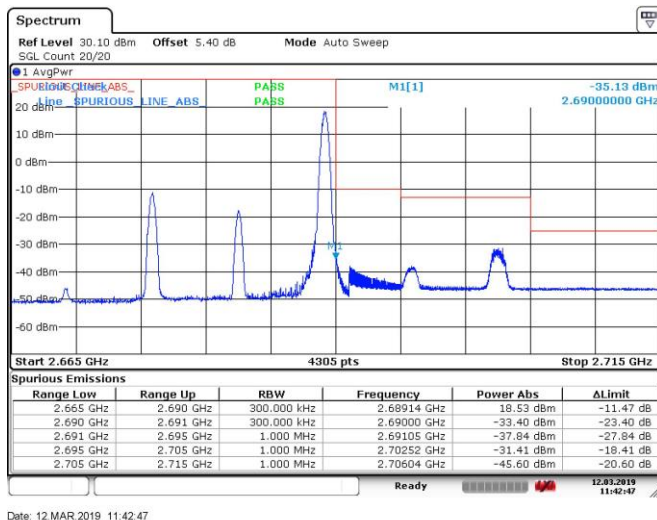
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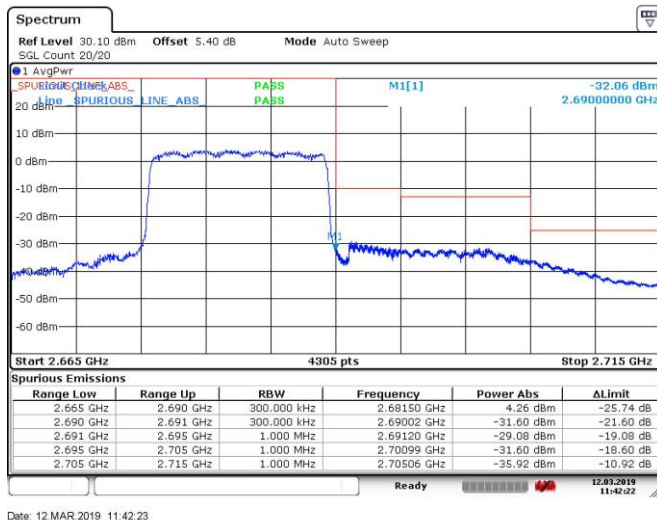
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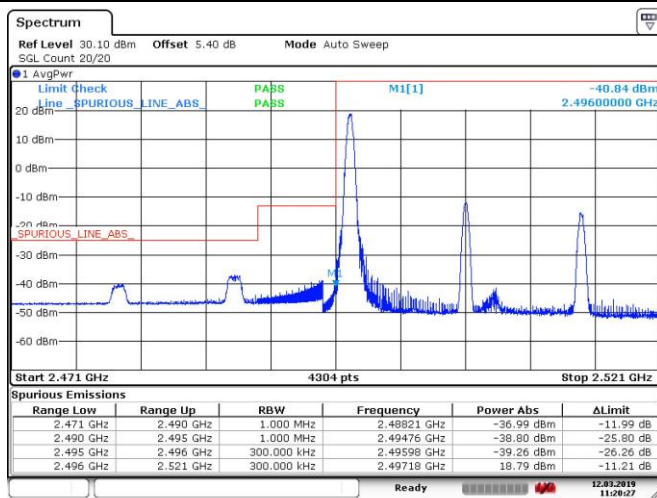


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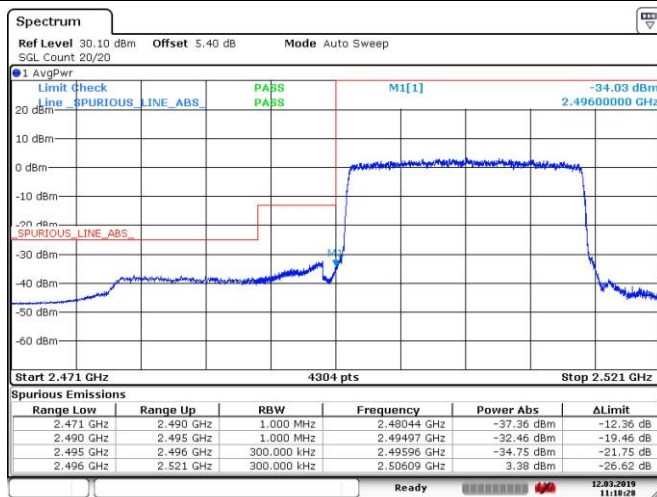
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Date: 12 MAR 2019 11:20:27

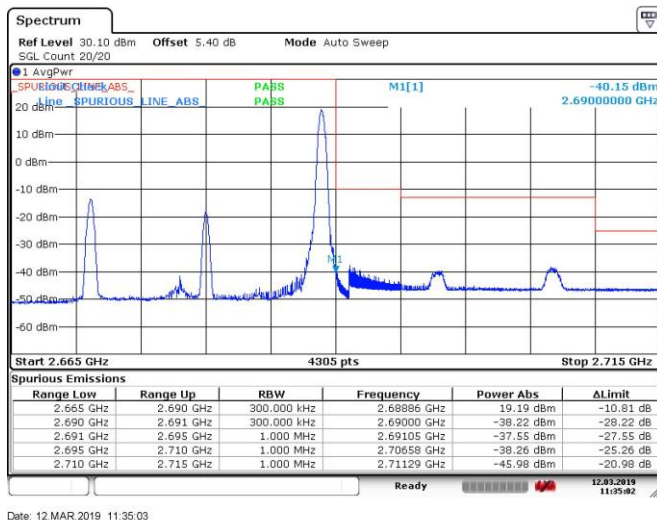
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Date: 12 MAR 2019 11:18:29

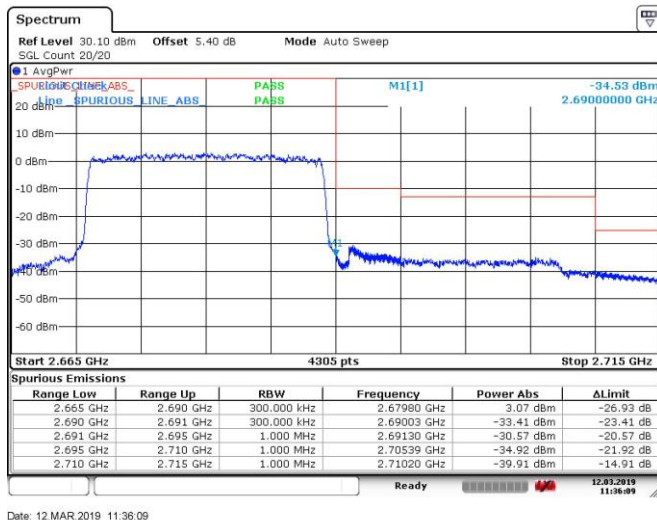
## BAND 41\_20MHz\_QPSK\_41490\_1RB#99





Date: 12 MAR 2019 11:35:03

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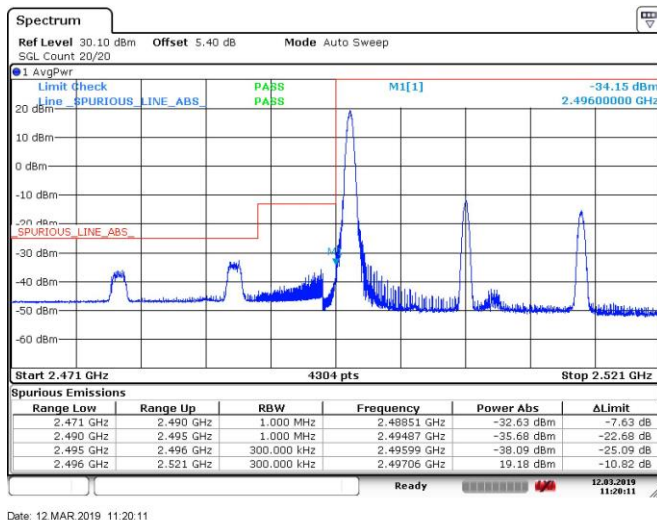


Date: 12 MAR 2019 11:36:09

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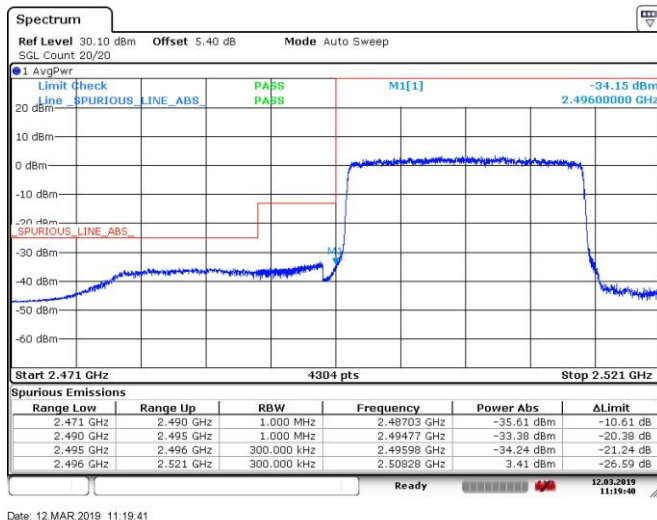






Date: 12 MAR 2019 11:20:11

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



Date: 12 MAR 2019 11:19:41

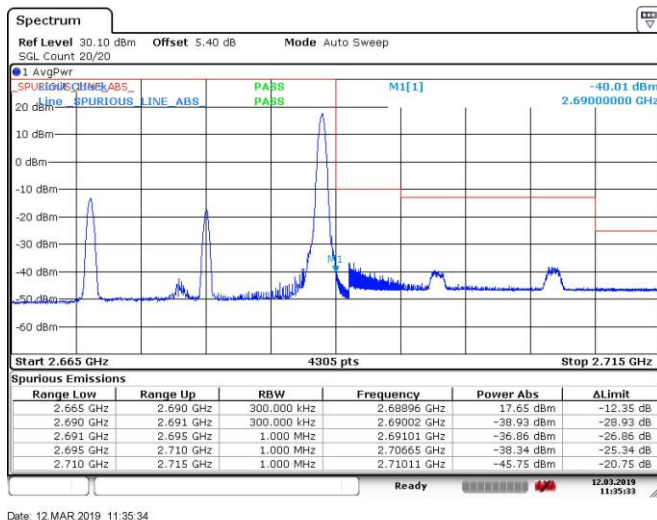
## BAND 41\_20MHz\_16QAM\_41490\_1RB#99



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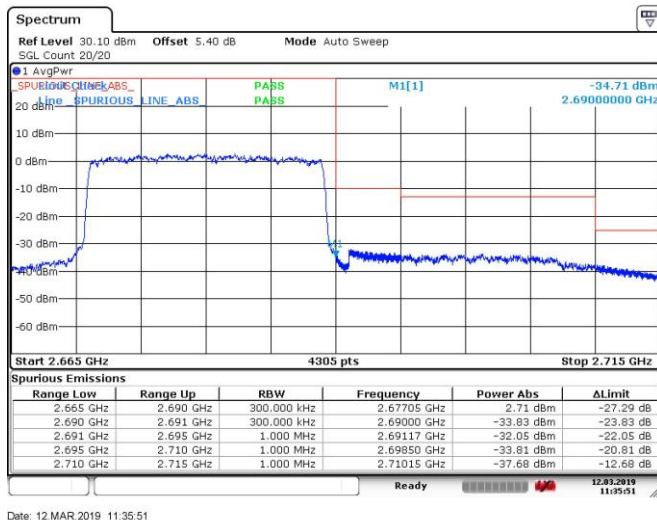
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Date: 12 MAR 2019 11:35:34

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



Date: 12 MAR 2019 11:35:51



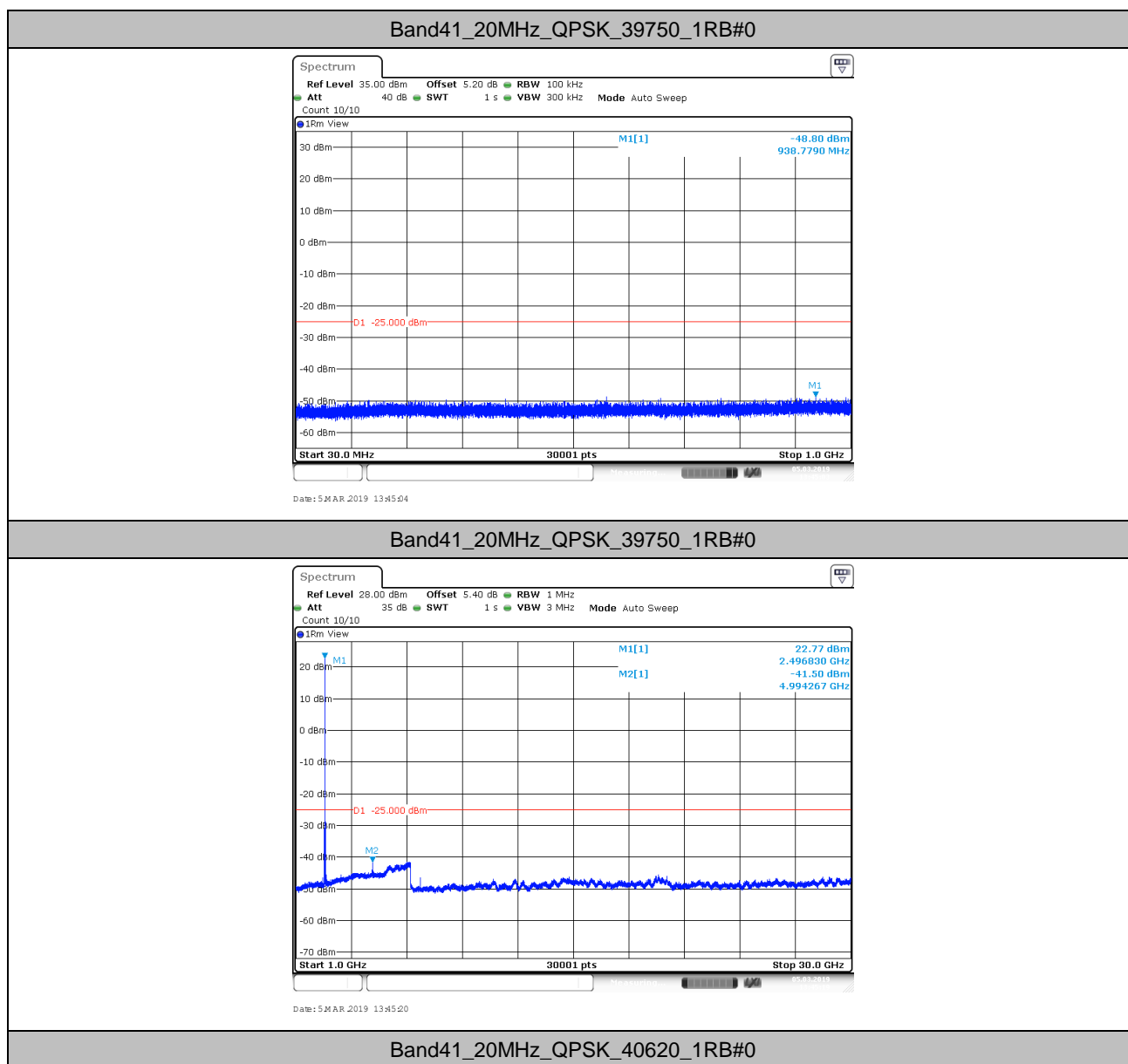


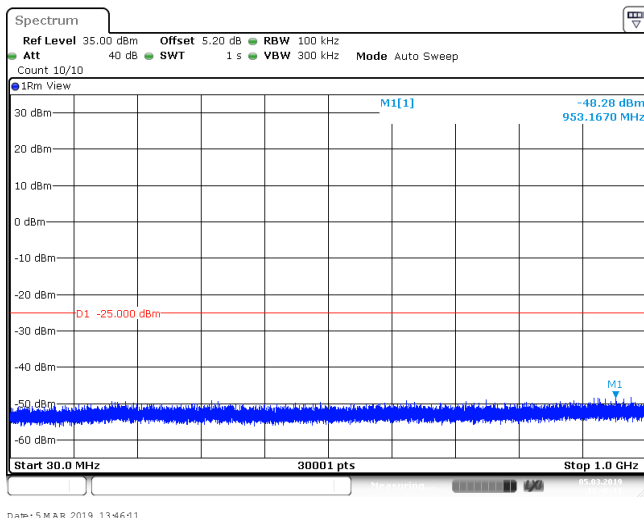
## 6. Spurious Emission at Antenna Terminal

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.

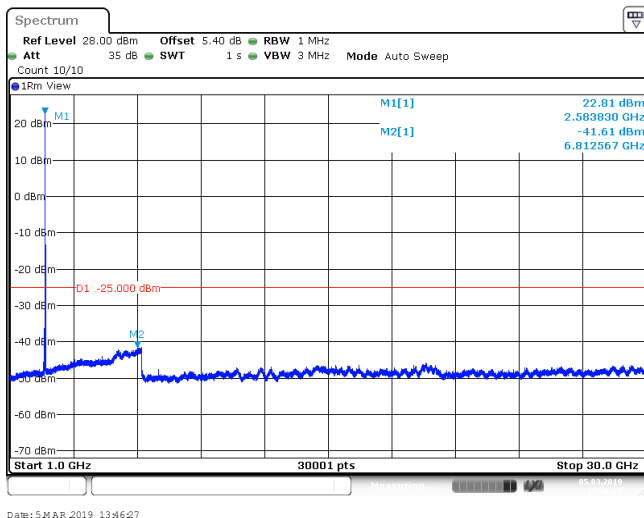
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots





Band41\_20MHz\_QPSK\_40620\_1RB#0

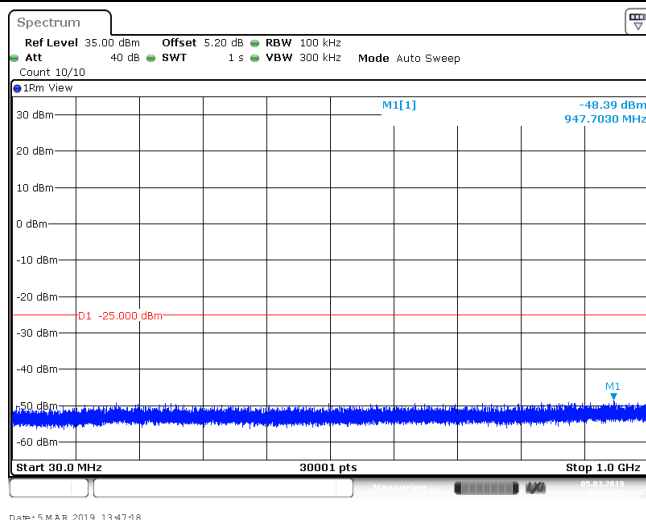


Band41\_20MHz\_QPSK\_41490\_1RB#0

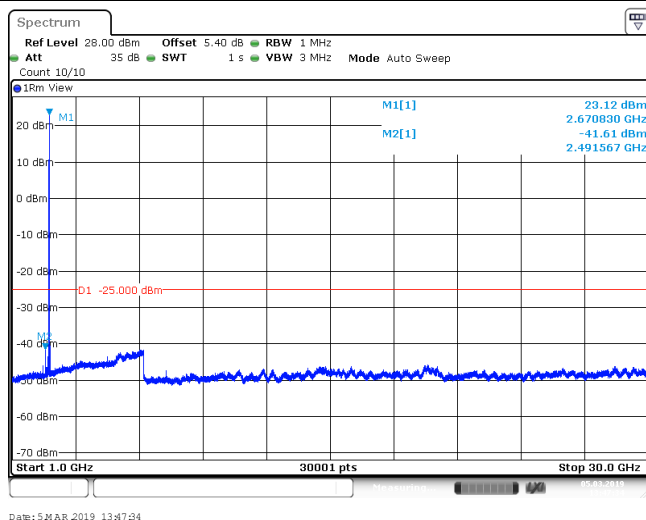


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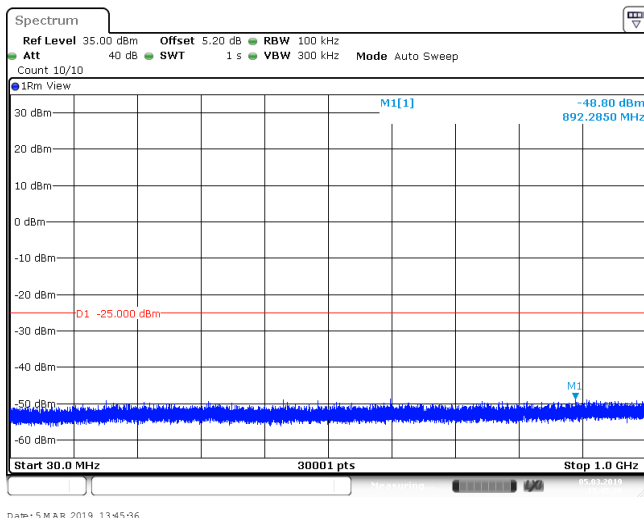


Band41\_20MHz\_QPSK\_41490\_1RB#0

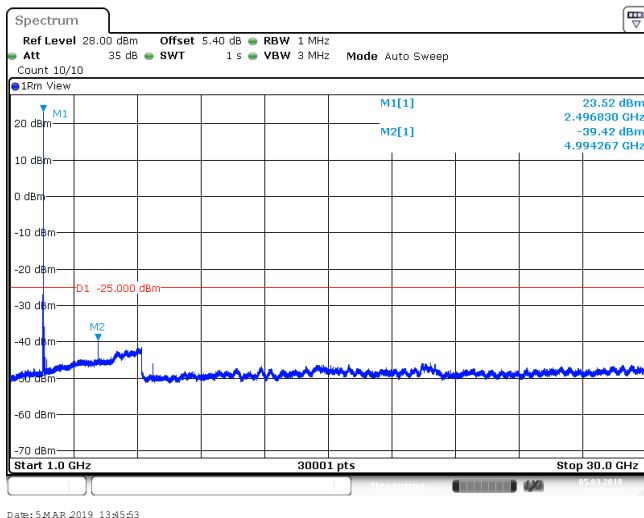


Band41\_20MHz\_16QAM\_39750\_1RB#0





Band41\_20MHz\_16QAM\_39750\_1RB#0

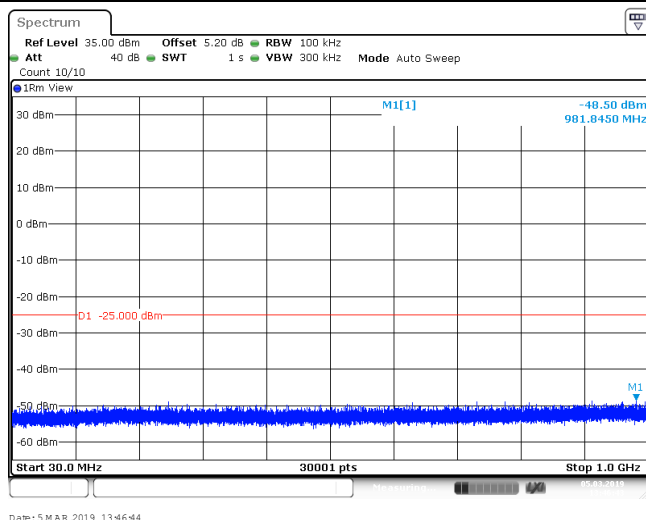


Band41\_20MHz\_16QAM\_40620\_1RB#0

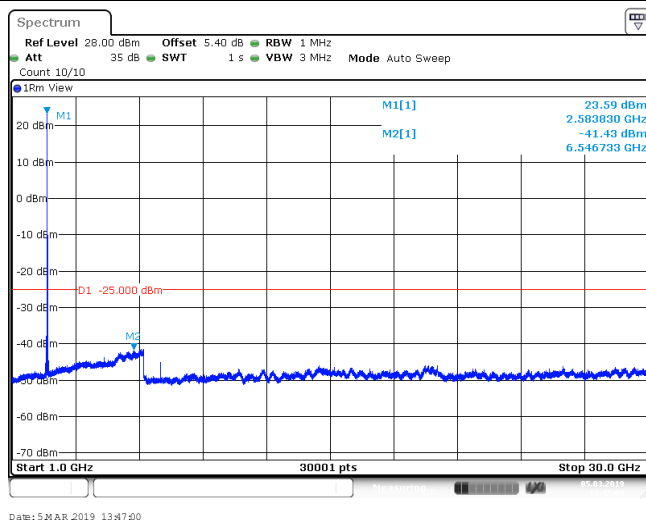


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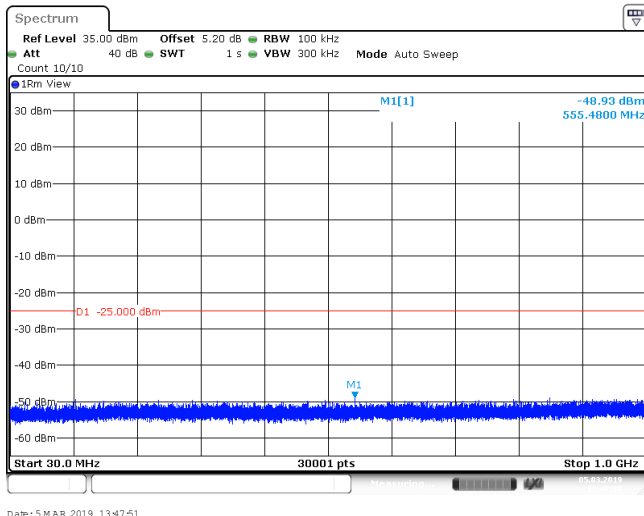


Band41\_20MHz\_16QAM\_40620\_1RB#0

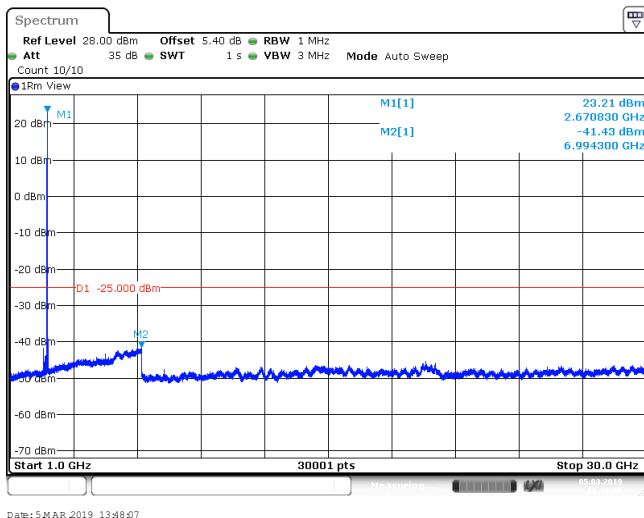


Band41\_20MHz\_16QAM\_41490\_1RB#0





## 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
74.8162	-64.99	-25.00	39.99	Vertical
109.9320	-65.26	-25.00	40.26	Vertical
1345.6691	-48.40	-25.00	23.40	Vertical
4994.0665	-52.24	-25.00	27.24	Vertical
10112.7371	-48.37	-25.00	23.37	Vertical
17990.9997	-33.49	-25.00	8.49	Vertical
43.9202	-64.27	-25.00	39.27	Horizontal
233.2737	-68.33	-25.00	43.33	Horizontal
1228.0456	-48.67	-25.00	23.67	Horizontal
4994.0665	-49.85	-25.00	24.85	Horizontal
9988.7330	-43.78	-25.00	18.78	Horizontal
17995.9999	-38.39	-25.00	13.39	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
73.6037	-64.03	-25.00	39.03	Vertical
106.5368	-65.53	-25.00	40.53	Vertical
1304.8610	-48.24	-25.00	23.24	Vertical
5168.0723	-53.74	-25.00	28.74	Vertical
8009.1670	-52.67	-25.00	27.67	Vertical
17990.4997	-33.78	-25.00	8.78	Vertical
45.0358	-64.16	-25.00	39.16	Horizontal
231.5761	-67.56	-25.00	42.56	Horizontal
1223.2446	-48.54	-25.00	23.54	Horizontal



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5168.0723	-54.12	-25.00	29.12	Horizontal
10036.2345	-48.88	-25.00	23.88	Horizontal
17989.4997	-38.36	-25.00	13.36	Horizontal

### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
74.5737	-64.41	-25.00	39.41	Vertical
112.6966	-65.49	-25.00	40.49	Vertical
1330.4661	-48.40	-25.00	23.40	Vertical
5529.5843	-56.27	-25.00	31.27	Vertical
10718.2573	-47.89	-25.00	22.89	Vertical
17993.9998	-34.03	-25.00	9.03	Vertical
43.9687	-62.79	-25.00	37.79	Horizontal
222.5546	-69.09	-25.00	44.09	Horizontal
1213.2426	-48.72	-25.00	23.72	Horizontal
5342.0781	-52.58	-25.00	27.58	Horizontal
10090.2363	-48.80	-25.00	23.80	Horizontal
17997.4999	-38.71	-25.00	13.71	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

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	4.70	0.001875	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	-0.80	-0.000319	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	3.60	0.001437	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	4.40	0.001697	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-0.80	-0.000309	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	5.80	0.002237	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	-2.30	-0.000858	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	2.20	0.000821	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	-1.30	-0.000485	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	0.40	0.000160	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	0.40	0.000160	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	2.90	0.001157	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	-0.40	-0.000154	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	6.70	0.002584	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	0.90	0.000347	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	3.80	0.001418	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	0.50	0.000187	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	-0.70	-0.000261	±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
Band41	20MHz	QPSK	39750	100RB#0	NV	-30	-0.10	-0.000040	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	4.60	0.001836	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	5.50	0.002195	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	1.90	0.000758	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	-0.90	-0.000359	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	3.10	0.001237	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	-0.60	-0.000239	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	0.10	0.000039	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	5.30	0.002044	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	0.80	0.000309	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-0.30	-0.000116	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	3.90	0.001504	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	4.70	0.001813	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	0.40	0.000154	±2.5	PASS



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Band41	20MHz	QPSK	40620	100RB#0	NV	50	0.30	0.000116	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	-0.90	-0.000336	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	-1.10	-0.000410	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	-0.20	-0.000075	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	2.00	0.000746	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	3.70	0.001381	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	1.50	0.000560	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	-2.50	-0.000933	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	4.40	0.001642	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	5.00	0.001995	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	3.20	0.001277	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	1.20	0.000479	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	4.10	0.001636	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	4.50	0.001796	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	1.20	0.000479	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	40	3.00	0.001197	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	0.20	0.000080	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	-1.30	-0.000501	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	-0.70	-0.000270	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	-0.80	-0.000309	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	3.40	0.001311	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	-0.10	-0.000039	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	4.30	0.001658	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	0.20	0.000077	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	2.30	0.000887	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	-1.10	-0.000410	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	0.60	0.000224	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	3.50	0.001306	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	4.80	0.001791	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	3.30	0.001231	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	30	0.70	0.000261	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	40	5.30	0.001978	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	50	3.90	0.001455	±2.5	PASS

The End



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