



# Appendix B

## E-UTRA Band CA\_38C



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# 1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE Band CA\_38C

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	PCC RB/ SCC RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
CA_38C	LTE/TM 1	75RB+75RB	LCH	75RB#0-75RB#0	21.37	21.87	33.00	PASS
				75RB#0-0RB#0	22.37	22.87	33.00	PASS
				16RB#0-0RB#0	22.91	23.41	33.00	PASS
				1RB#74-1RB#0	23.24	23.74	33.00	PASS
				1RB#0-1RB#74	14.12	14.62	33.00	PASS
				1RB#0-0RB#0	22.84	23.34	33.00	PASS
			MCH	75RB#0-75RB#0	21.14	21.64	33.00	PASS
				75RB#0-0RB#0	22.32	22.82	33.00	PASS
				16RB#0-0RB#0	22.93	23.43	33.00	PASS
				1RB#74-1RB#0	23.11	23.61	33.00	PASS
				1RB#0-1RB#74	14.42	14.92	33.00	PASS
				1RB#0-0RB#0	22.92	23.42	33.00	PASS
			HCH	75RB#0-75RB#0	21.41	21.91	33.00	PASS
				75RB#0-0RB#0	22.39	22.89	33.00	PASS
				16RB#0-0RB#0	22.84	23.34	33.00	PASS
				1RB#74-1RB#0	23.14	23.64	33.00	PASS
				1RB#0-1RB#74	14.34	14.84	33.00	PASS
				1RB#0-0RB#0	22.76	23.26	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	PCC RB/ SCC RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
CA_38C	LTE/TM2	75RB+75RB	LCH	75RB#0-75RB#0	20.25	20.75	33.00	PASS
				75RB#0-0RB#0	21.39	21.89	33.00	PASS
				16RB#0-0RB#0	21.89	22.39	33.00	PASS
			MCH	75RB#0-75RB#0	20.31	20.81	33.00	PASS
				75RB#0-0RB#0	21.34	21.84	33.00	PASS
				16RB#0-0RB#0	21.94	22.44	33.00	PASS
			HCH	75RB#0-75RB#0	20.18	20.68	33.00	PASS
				75RB#0-0RB#0	21.37	21.87	33.00	PASS
				16RB#0-0RB#0	21.86	22.36	33.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	PCC RB/ SCC RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
CA_38C	LTE/TM3	75RB+75RB	LCH	75RB#0-75RB#0	19.73	20.23	33.00	PASS
				75RB#0-0RB#0	19.68	20.18	33.00	PASS
				16RB#0-0RB#0	20.97	21.47	33.00	PASS
			MCH	75RB#0-75RB#0	19.68	20.18	33.00	PASS
				75RB#0-0RB#0	19.71	20.21	33.00	PASS
				16RB#0-0RB#0	20.95	21.45	33.00	PASS
			HCH	75RB#0-75RB#0	19.60	20.10	33.00	PASS
				75RB#0-0RB#0	19.58	20.08	33.00	PASS
				16RB#0-0RB#0	20.82	21.32	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	PCC RB/ SCC RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
CA_38C	LTE/TM1	100RB+100RB	LCH	100RB#0/100RB#0	21.70	22.20	33.00	PASS
				100RB#0/0RB#0	22.56	23.06	33.00	PASS
				18RB#0/0RB#0	23.27	23.77	33.00	PASS
				1RB#99/1RB#0	22.41	22.91	33.00	PASS
				1RB#0/1RB#99	14.72	15.22	33.00	PASS
				1RB#0/0RB#0	22.48	22.98	33.00	PASS
			MCH	100RB#0/100RB#0	21.60	22.10	33.00	PASS
				100RB#0/0RB#0	22.51	23.01	33.00	PASS
				18RB#0/0RB#0	23.25	23.75	33.00	PASS
				1RB#99/1RB#0	23.15	23.65	33.00	PASS
				1RB#0/1RB#99	14.65	15.15	33.00	PASS
				1RB#0/0RB#0	23.29	23.79	33.00	PASS
			HCH	100RB#0/100RB#0	21.44	21.94	33.00	PASS
				100RB#0/0RB#0	22.56	23.06	33.00	PASS
				18RB#0/0RB#0	23.28	23.78	33.00	PASS
				1RB#99/1RB#0	23.28	23.78	33.00	PASS
				1RB#0/1RB#99	14.66	15.16	33.00	PASS
				1RB#0/0RB#0	23.27	23.77	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	PCC RB/ SCC RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
CA_38C	LTE/TM2	100RB+100RB	LCH	100RB#0/100RB#0	20.45	20.95	33.00	PASS
				100RB#0/0RB#0	21.40	21.90	33.00	PASS
				18RB#0/0RB#0	22.26	22.76	33.00	PASS
			MCH	100RB#0/100RB#0	20.43	20.93	33.00	PASS
				100RB#0/0RB#0	21.50	22.00	33.00	PASS
				18RB#0/0RB#0	22.33	22.83	33.00	PASS
			HCH	100RB#0/100RB#0	20.34	20.84	33.00	PASS
				100RB#0/0RB#0	21.47	21.97	33.00	PASS
				18RB#0/0RB#0	22.25	22.75	33.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	PCC RB/ SCC RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
CA_38C	LTE/TM3	100RB+100RB	LCH	100RB#0/100RB#0	19.62	20.12	33.00	PASS
				100RB#0/0RB#0	19.63	20.13	33.00	PASS
				18RB#0/0RB#0	21.16	21.66	33.00	PASS
			MCH	100RB#0/100RB#0	19.69	20.19	33.00	PASS
				100RB#0/0RB#0	19.74	20.24	33.00	PASS
				18RB#0/0RB#0	21.22	21.72	33.00	PASS
			HCH	100RB#0/100RB#0	19.62	20.12	33.00	PASS
				100RB#0/0RB#0	19.75	20.25	33.00	PASS
				18RB#0/0RB#0	21.13	21.63	33.00	PASS

Note:

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

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

b: SGP=Signal Generator Level



## 2 Peak-to-Average Ratio

### Part I - Test Results

Test Band	Test Mode	PCC RB	SCC RB	Test Channel	Measured[dB]	Limit [dB]	Verdict
CA_38C	TM1/75RB+75RB	P_75@0	S_75@0	MCH	7.25	13	PASS
	TM1/75RB+75RB	P_75@0	S_75@0	MCH	6.81	13	PASS
	TM1/75RB+75RB	P_75@0	S_75@0	MCH	6.87	13	PASS
	TM1/100RB+100RB	P_100@0	S_100@0	MCH	6.14	13	PASS
	TM2/100RB+100RB	P_100@0	S_100@0	MCH	7.77	13	PASS
	TM3/100RB+100RB	P_100@0	S_100@0	MCH	7.30	13	PASS

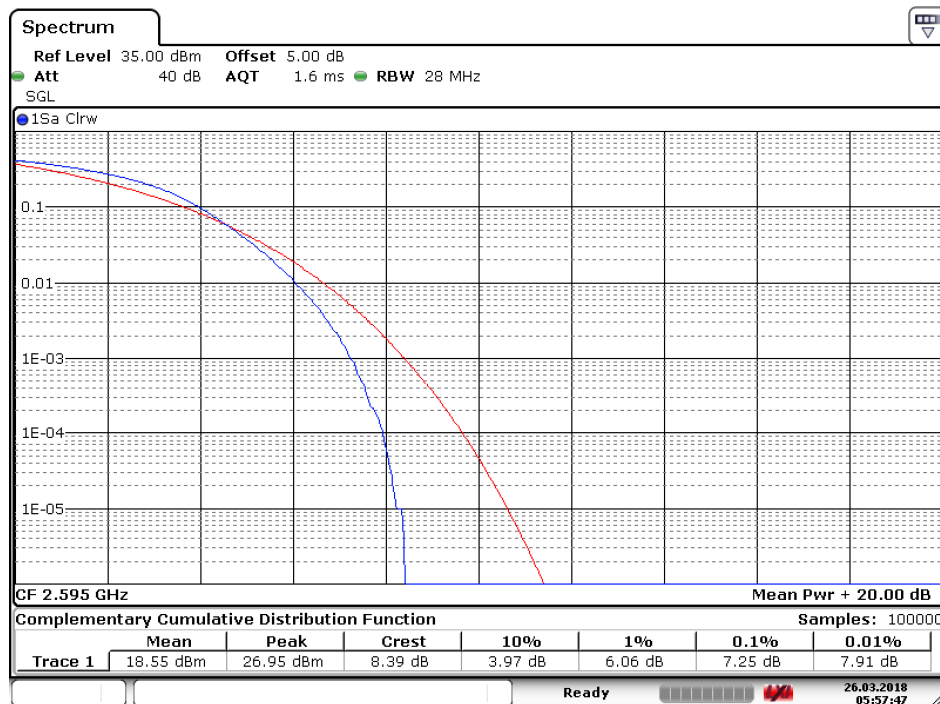
### Part II - Test Plots

#### 2.1 For LTE

##### 2.1.1 Test Band = LTE Band CA\_38C

##### 2.1.1.1 Test Mode = LTE/TM1.Bandwidth=75RB+75RB

##### 2.1.1.1.1 Test Channel = MCH

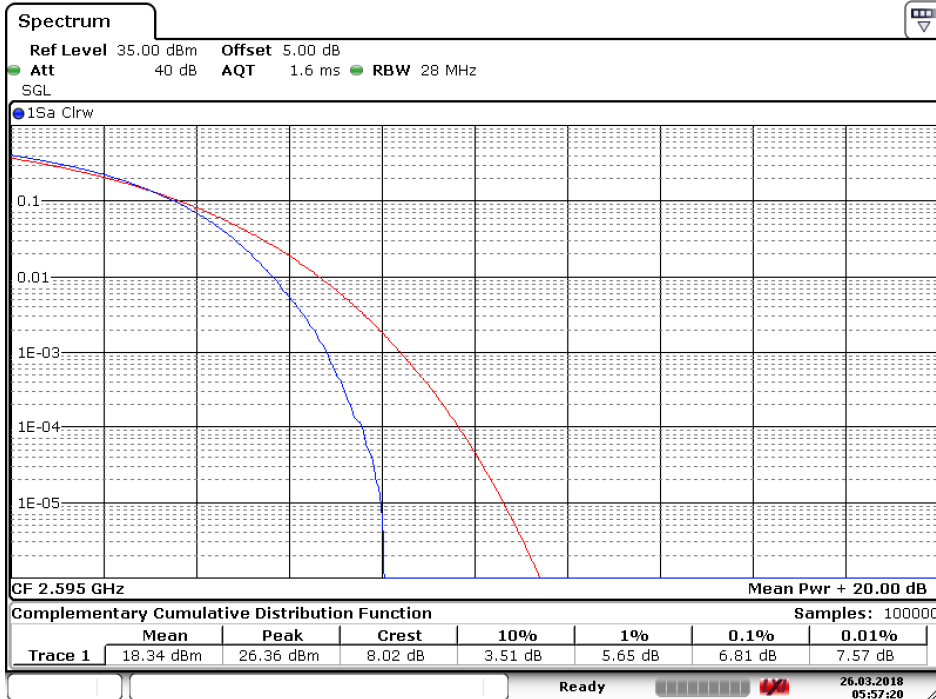


Date: 26.MAR.2018 05:57:47



**2.1.1.2 Test Mode = LTE/TM2.Bandwidth=75RB+75RB**

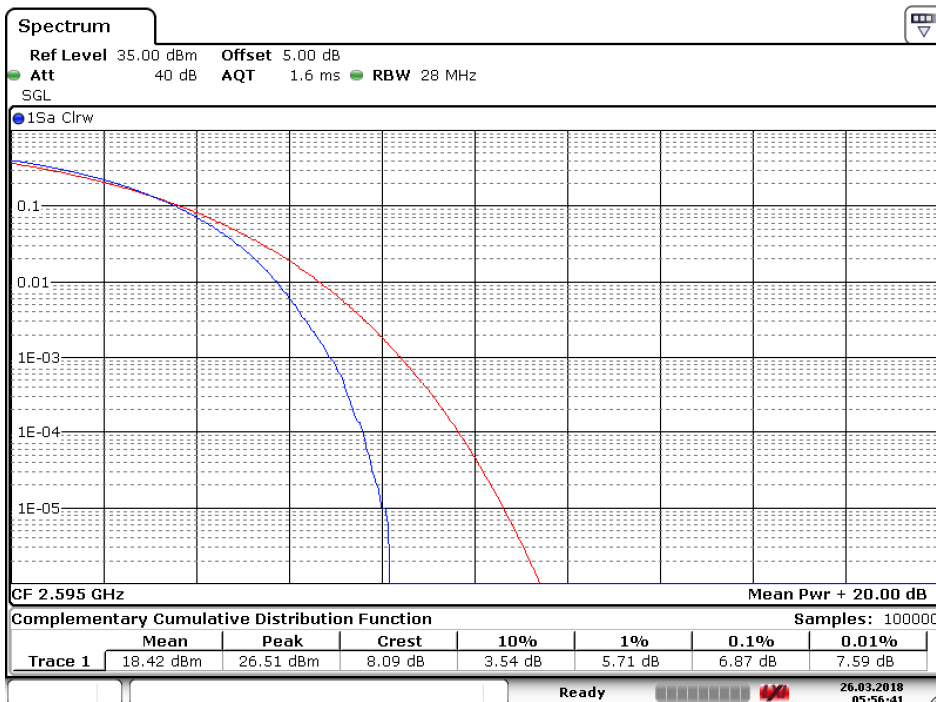
**2.1.1.2.1 Test Channel = MCH**



Date: 26.MAR.2018 05:57:21

**2.1.1.3 Test Mode = LTE/TM3.Bandwidth=75RB+75RB**

**2.1.1.3.1 Test Channel = MCH**



Date: 26.MAR.2018 05:56:41

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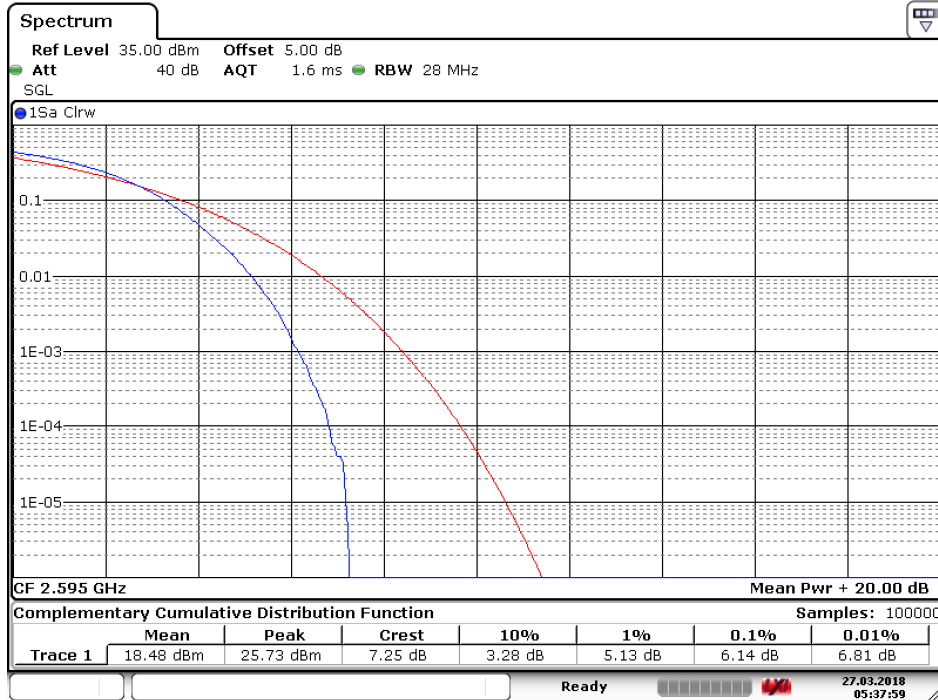




2.1.2 Test Band = LTE BandCA\_38C

2.1.2.1 Test Mode = LTE/TM1.Bandwidth=100RB+100RB

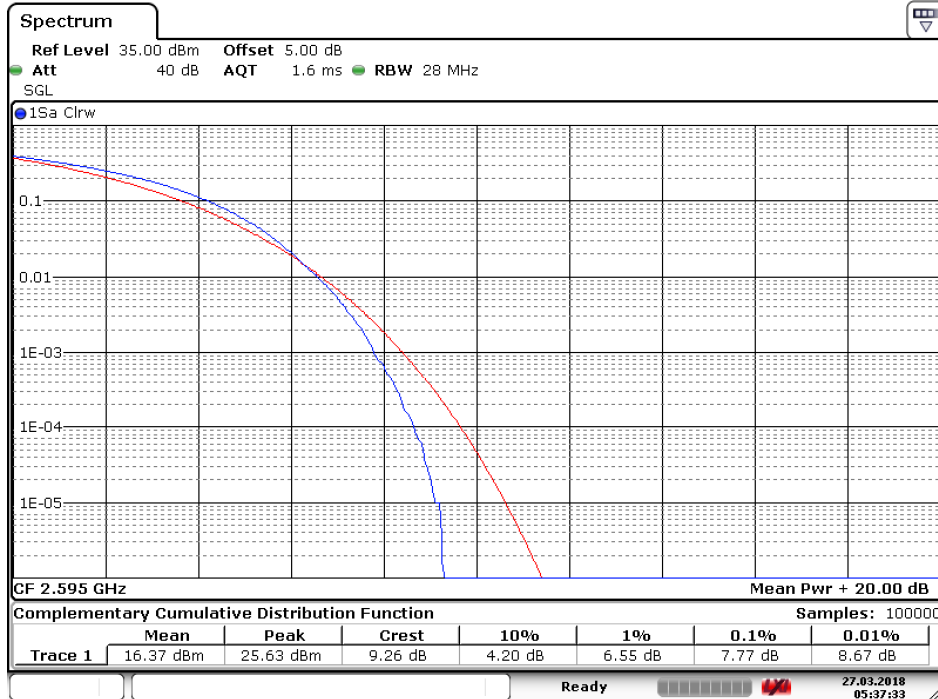
2.1.2.1.1 Test Channel = MCH



Date: 27.MAR.2018 05:38:00

**2.1.2.2 Test Mode = LTE/TM2.Bandwidth=100RB+100RB**

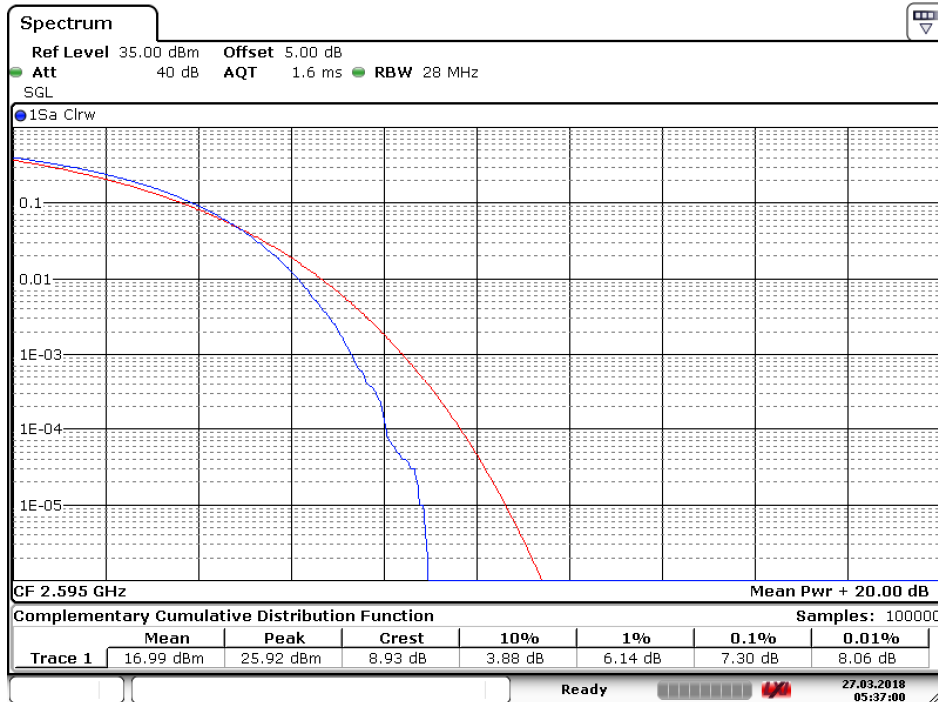
**2.1.2.2.1 Test Channel = MCH**



Date: 27.MAR.2018 05:37:33

**2.1.2.3 Test Mode = LTE/TM3.Bandwidth=100RB+100RB**

**2.1.2.3.1 Test Channel = MCH**



Date: 27.MAR.2018 05:37:00

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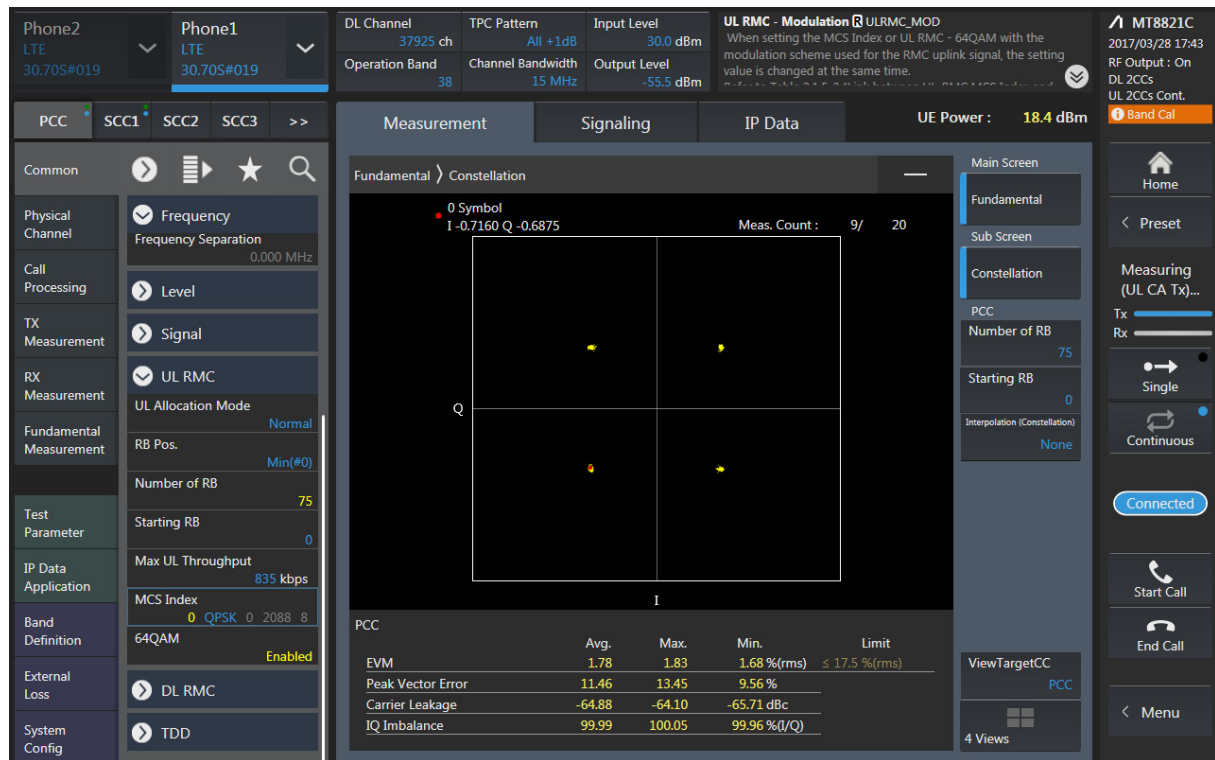
### 3 Modulation Characteristics

#### 3.1 For LTE

##### 3.1.1 Test Band = LTE Band CA\_38C

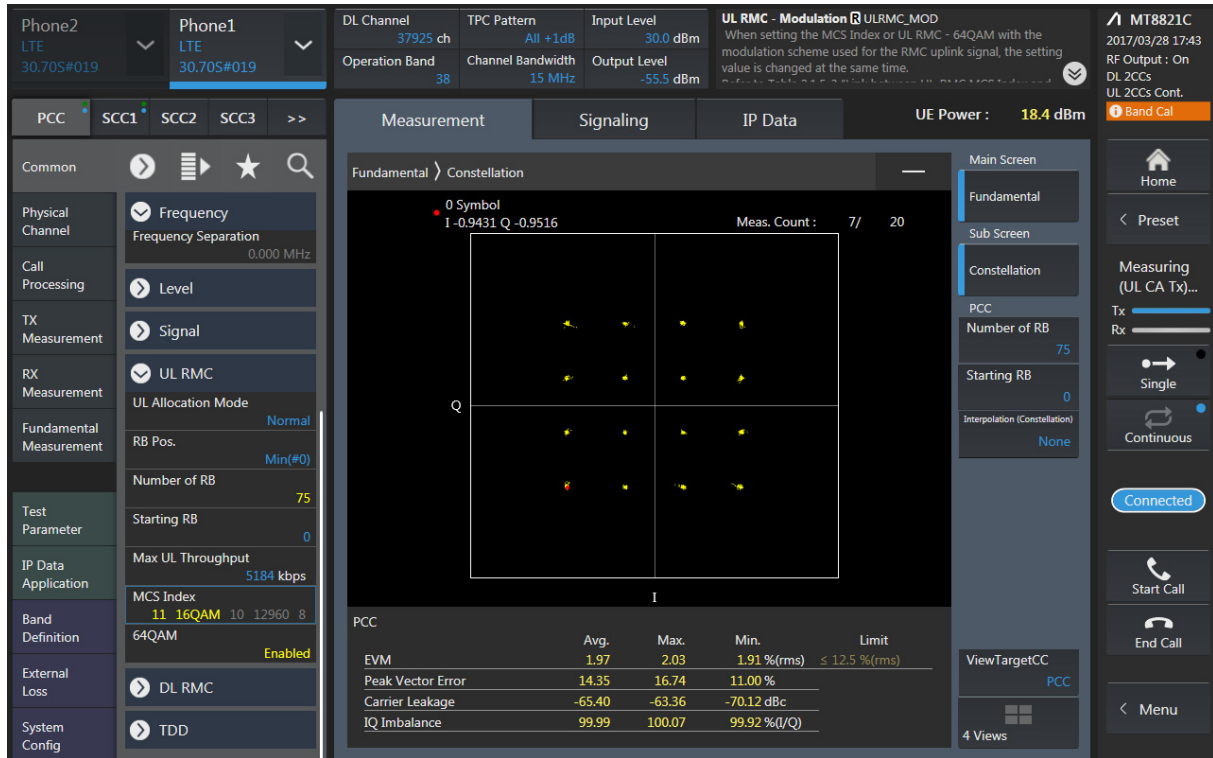
##### 3.1.1.1 Test Mode = LTE /TM1 75RB+75RB

##### 3.1.1.1.1 Test Channel = MCH



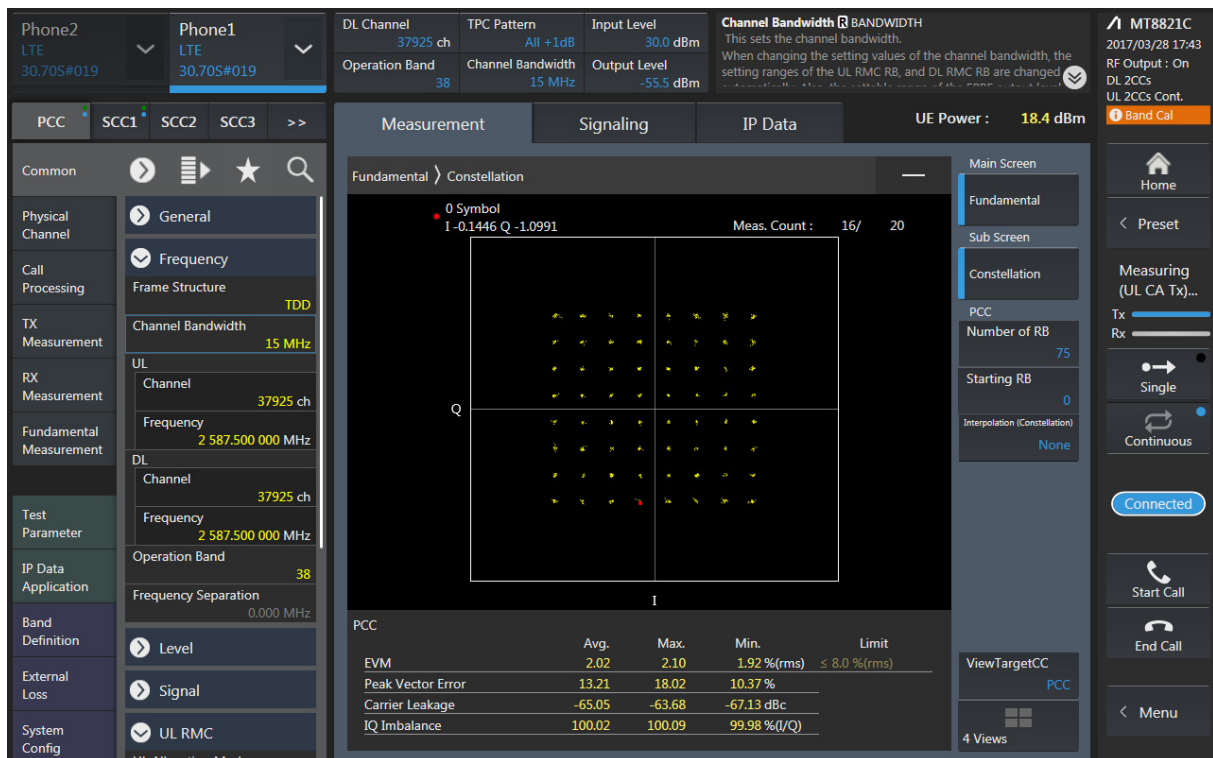
**3.1.1.2 Test Mode = LTE /TM2 75RB+75RB**

**3.1.1.2.1 Test Channel = MCH**



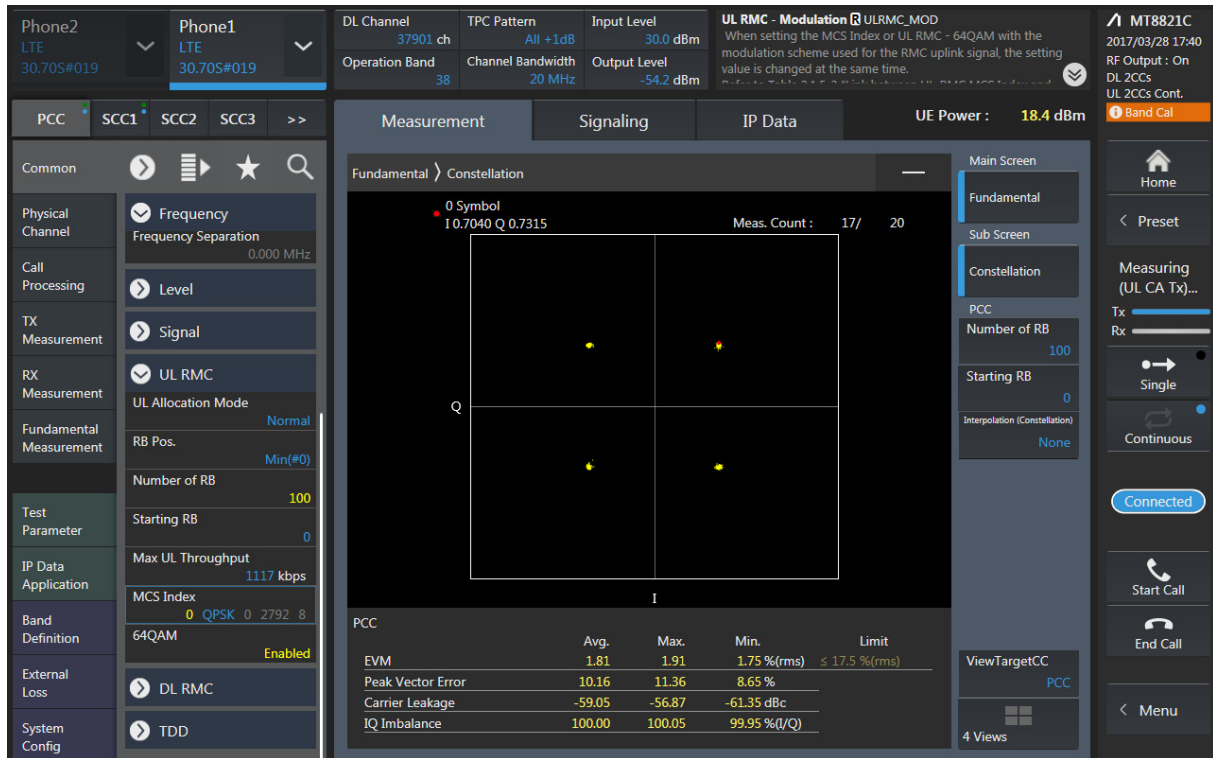
**3.1.1.3 Test Mode = LTE /TM3 75RB+75RB**

**3.1.1.3.1 Test Channel = MCH**



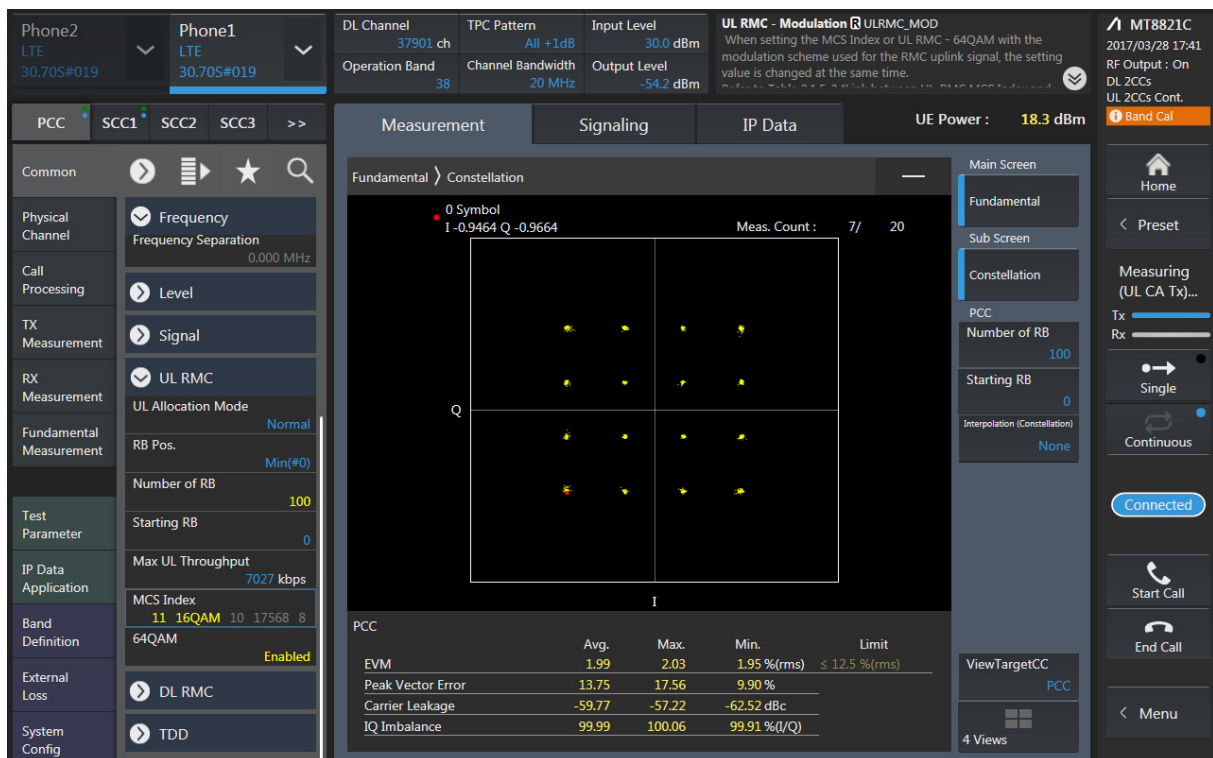
**3.1.1.4 Test Mode = LTE /TM1 100RB+100RB**

**3.1.1.4.1 Test Channel = MCH**



**3.1.1.5 Test Mode = LTE /TM2 100RB+100RB**

**3.1.1.5.1 Test Channel = MCH**

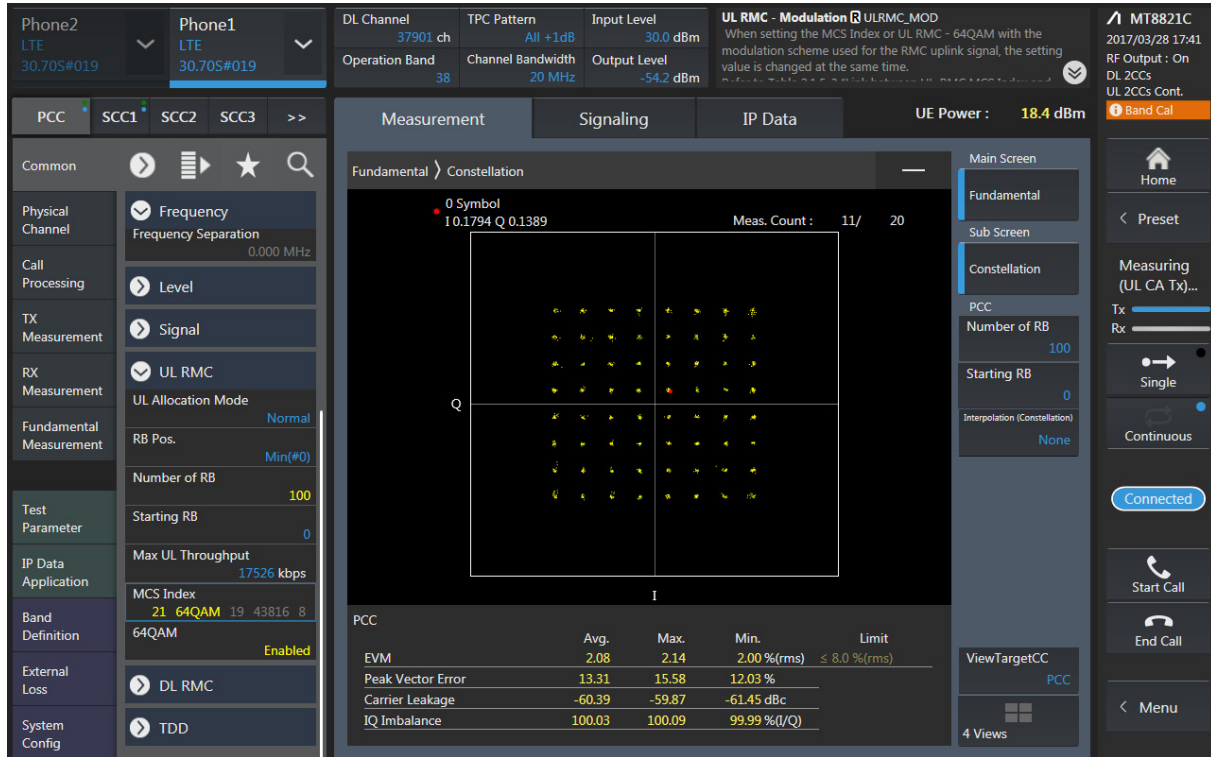


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3.1.1.6 Test Mode = LTE /TM3 100RB+100RB

3.1.1.6.1 Test Channel = MCH



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## 4 Bandwidth

### Part I - Test Results

Test Band	Test Mode	PCC RB	SCC RB	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
CA_38C	TM1/75RB+75RB	P_75@0	S_75@0	MCH	28.35	30.03	PASS
	TM1/75RB+75RB	P_75@0	S_75@0	MCH	28.35	30.09	PASS
	TM1/75RB+75RB	P_75@0	S_75@0	MCH	28.35	30.03	PASS
	TM1/100RB+100RB	P_100@0	S_100@0	MCH	37.72	39.68	PASS
	TM2/100RB+100RB	P_100@0	S_100@0	MCH	37.56	39.72	PASS
	TM3/100RB+100RB	P_100@0	S_100@0	MCH	37.48	39.72	PASS

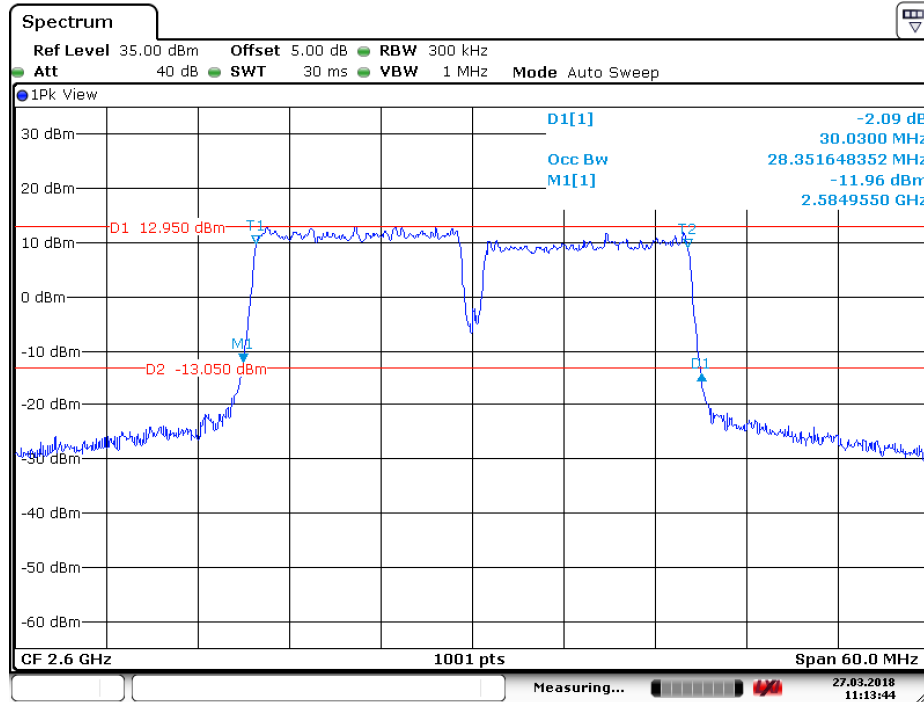


## 4.1 For LTE

### 4.1.1 Test Band = LTE Band CA\_38C

#### 4.1.1.1 Test Mode = LTE/TM1 75RB+75RB

##### 4.1.1.1.1 Test Channel = MCH



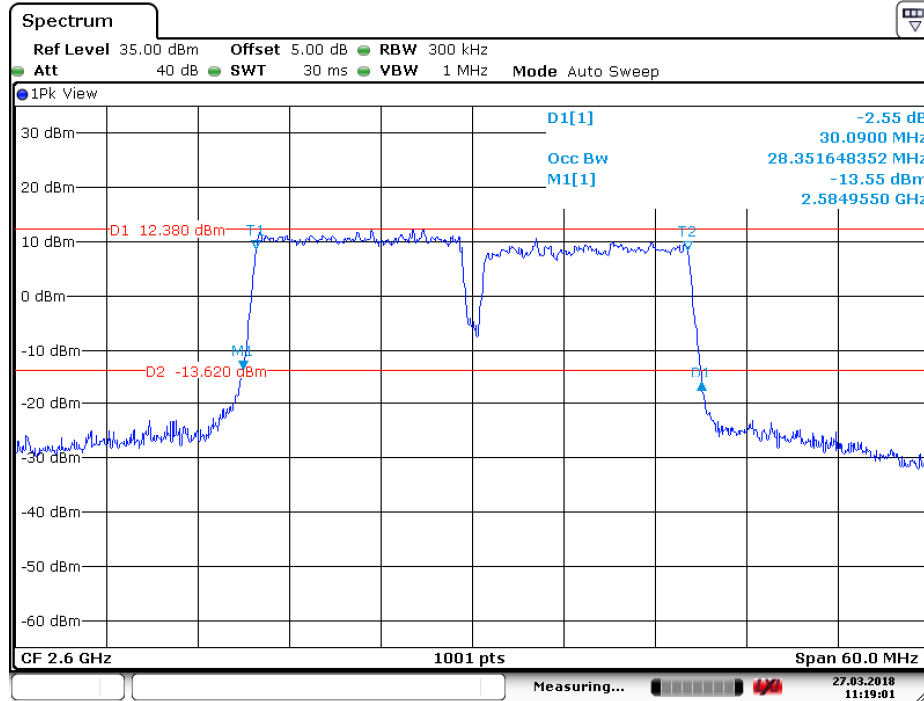
Date: 27.MAR.2018 11:13:44





4.1.1.2 Test Mode = LTE/TM2 75RB+75RB

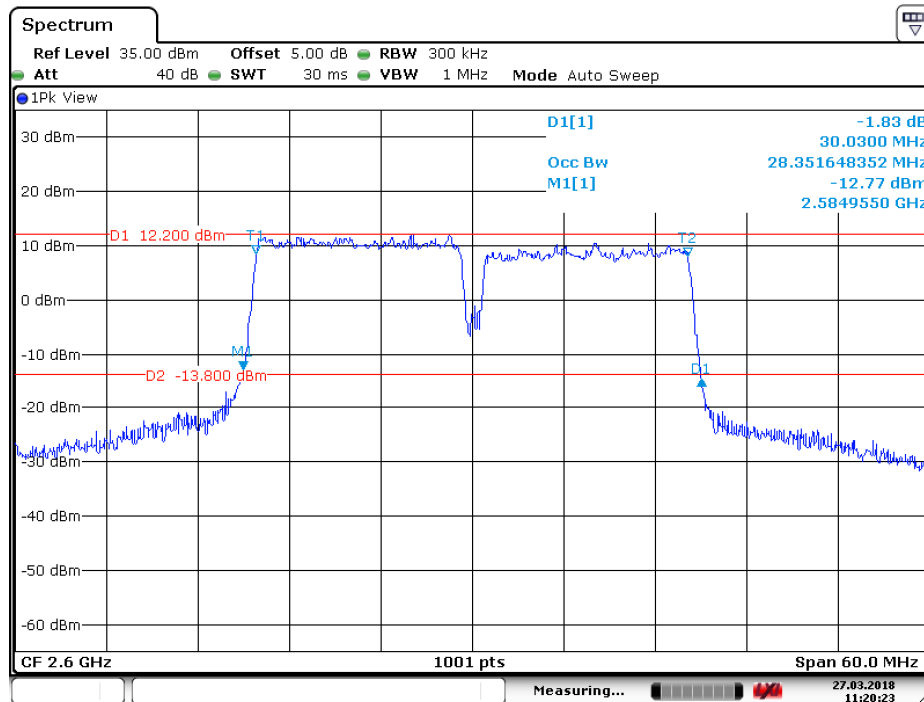
4.1.1.2.1 Test Channel = MCH



Date: 27.MAR.2018 11:19:01

4.1.1.3 Test Mode = LTE/TM3 75RB+75RB

4.1.1.3.1 Test Channel = MCH

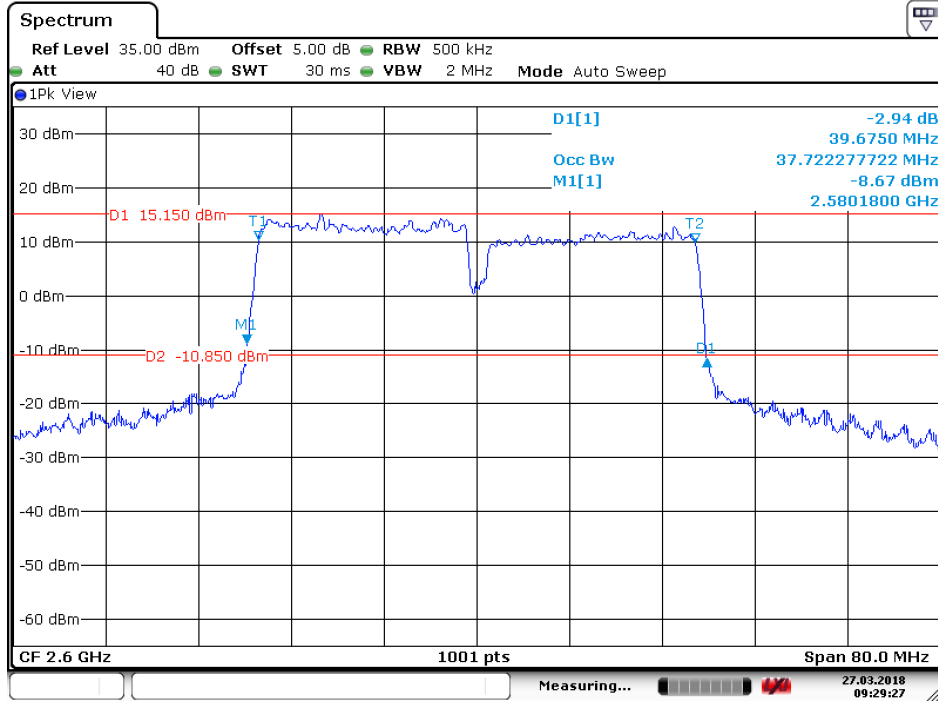


Date: 27.MAR.2018 11:20:24



4.1.1.4 Test Mode = LTE/TM1 100RB+100RB

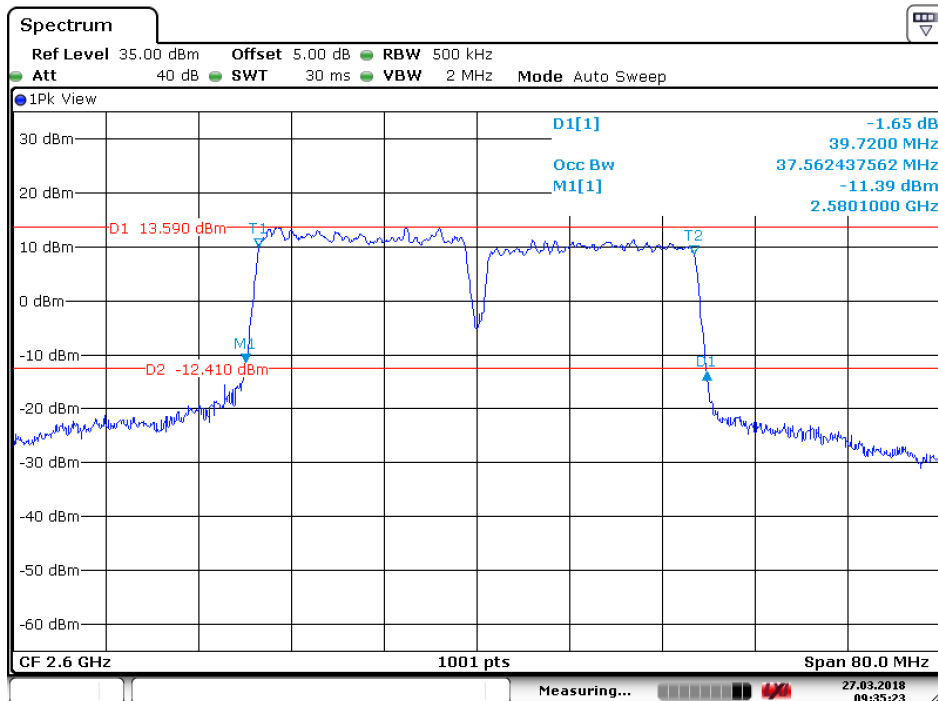
4.1.1.4.1 Test Channel = MCH



Date: 27.MAR.2018 09:29:27

4.1.1.5 Test Mode = LTE/TM2 100RB+100RB

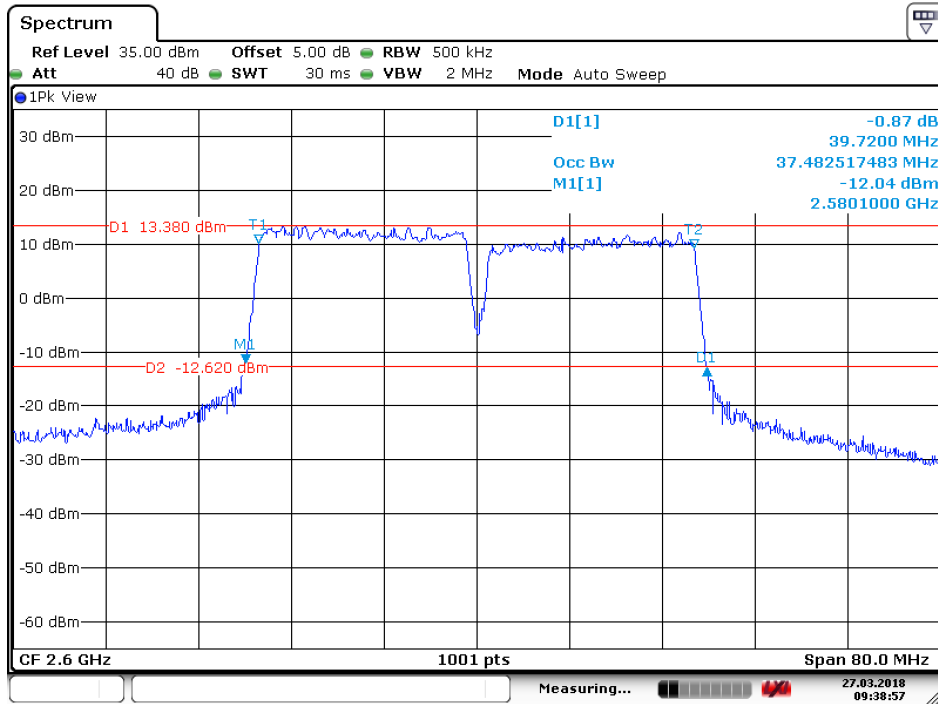
4.1.1.5.1 Test Channel = MCH



Date: 27.MAR.2018 09:35:24

### 4.1.1.6 Test Mode = LTE/TM3 100RB+100RB

#### 4.1.1.6.1 Test Channel =MCH



Date: 27.MAR.2018 09:38:58

## 5 Band Edges Compliance

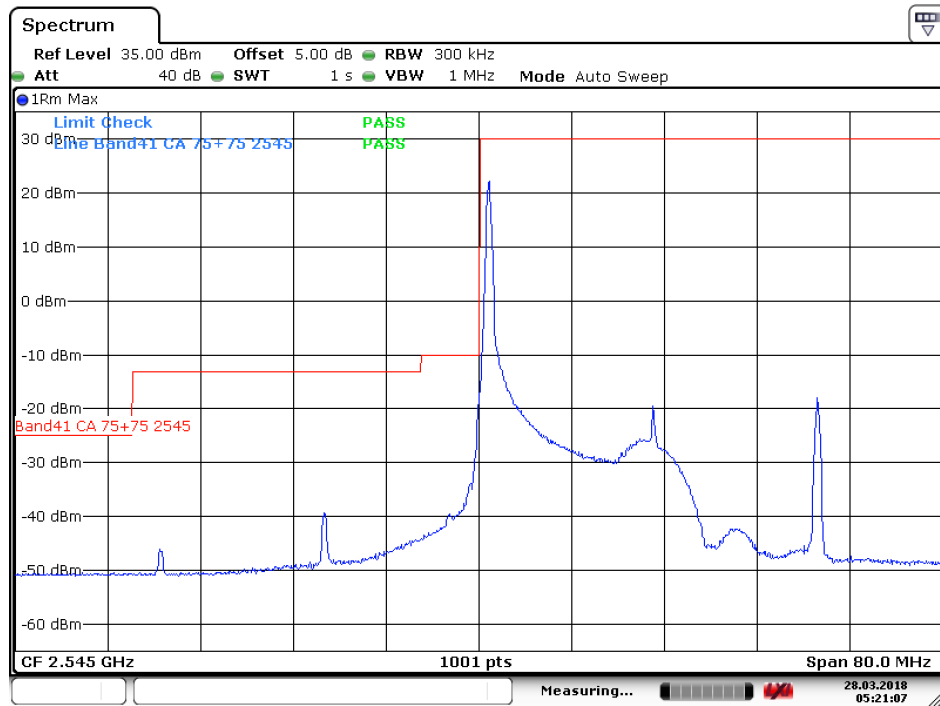
### 5.1 For LTE

#### 5.1.1 Test Band = LTE Band CA\_38C

##### 5.1.1.1 Test Mode = LTE/TM1 75RB+75RB

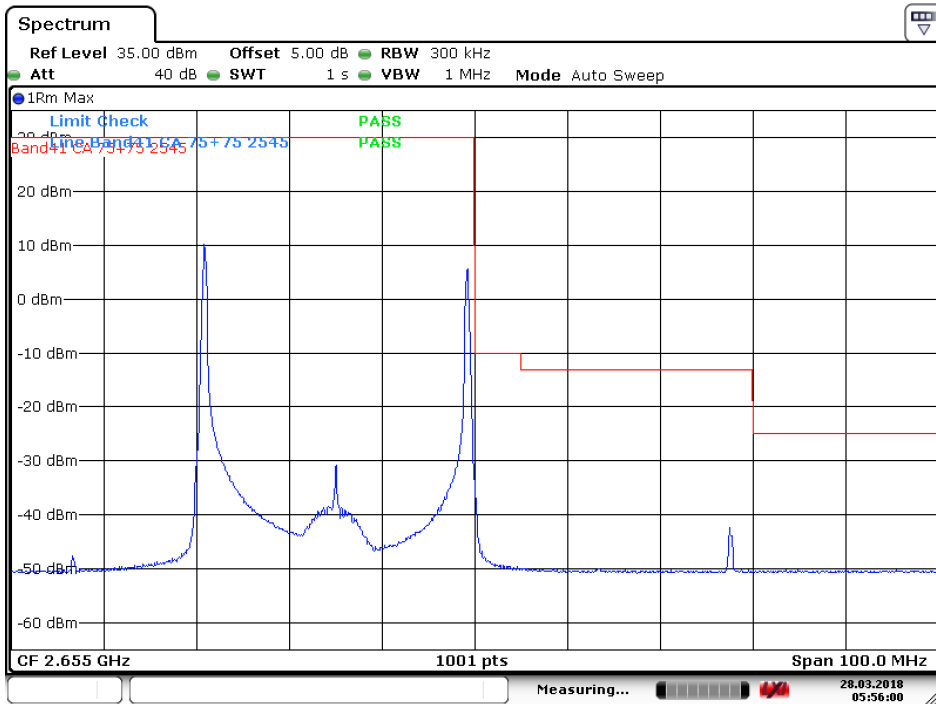
##### 5.1.1.1.1 Test Channel = LCH

##### 5.1.1.1.1.1 Test RB= P\_1@0 S\_0@0



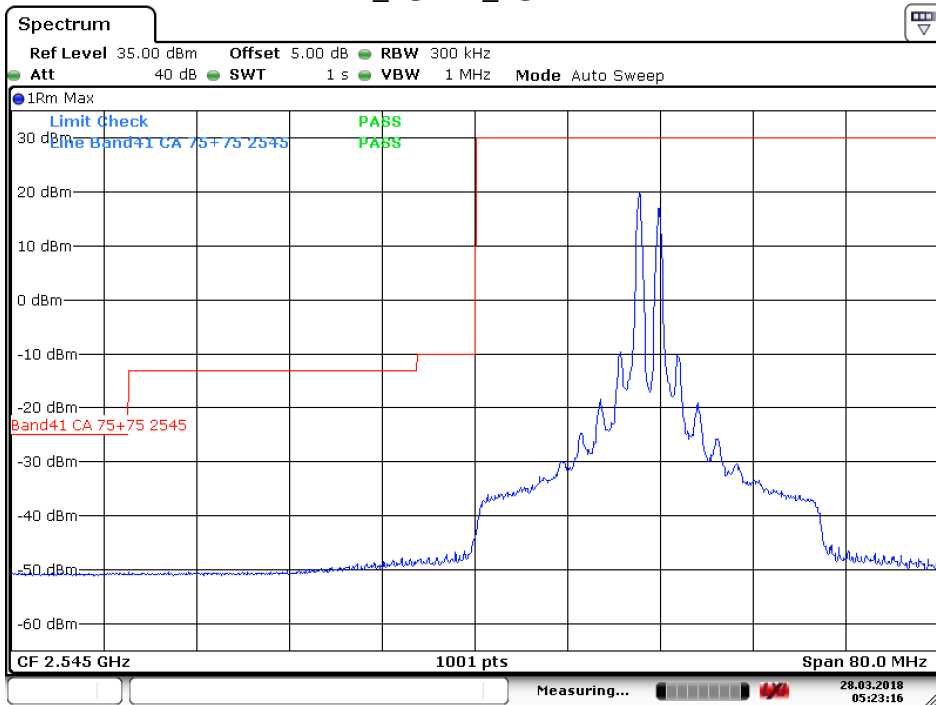
Date: 28.MAR.2018 05:21:07

**5.1.1.1.1.2 Test RB= P\_1@0 S\_1@74**



Date: 28.MAR.2018 05:56:00

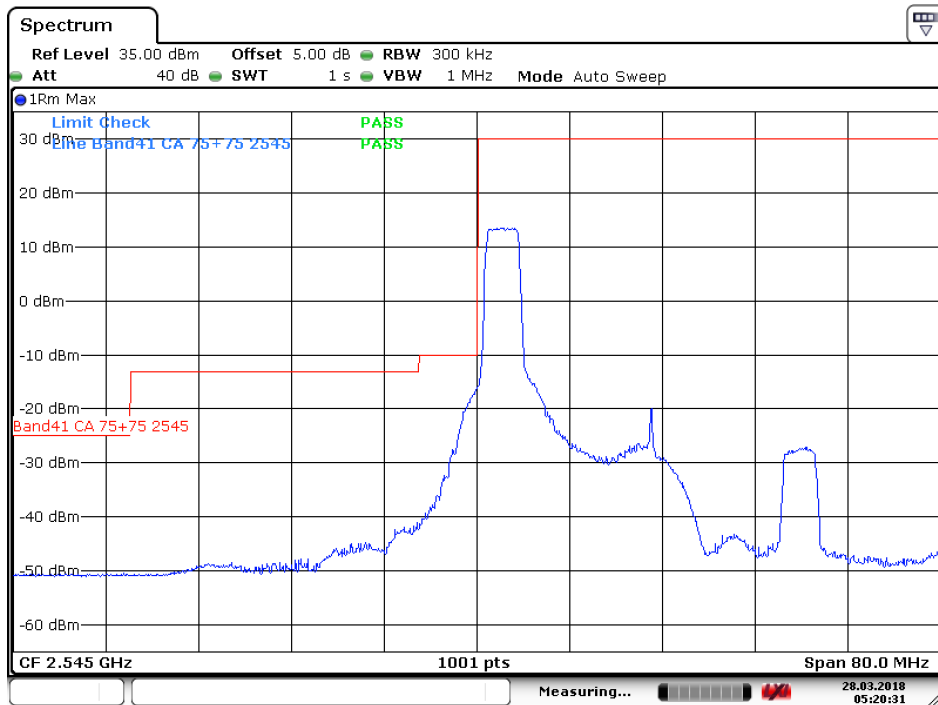
**5.1.1.1.1.3 Test RB= P\_1@74 S\_1@0**



Date: 28.MAR.2018 05:23:17

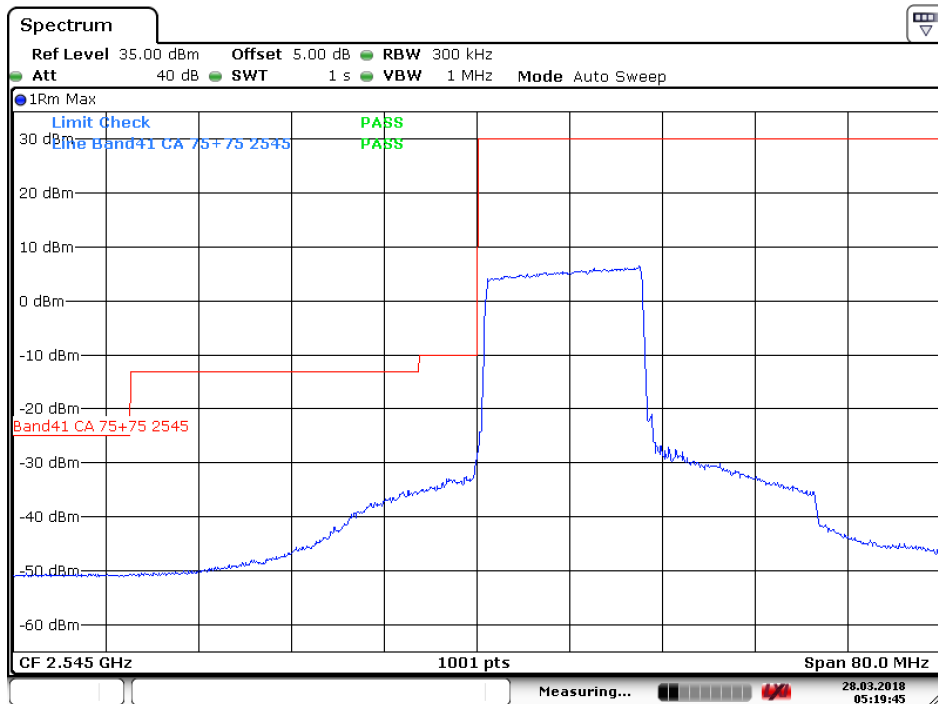


5.1.1.1.4 Test RB= P\_16@0 S\_0@0



Date: 28.MAR.2018 05:20:30

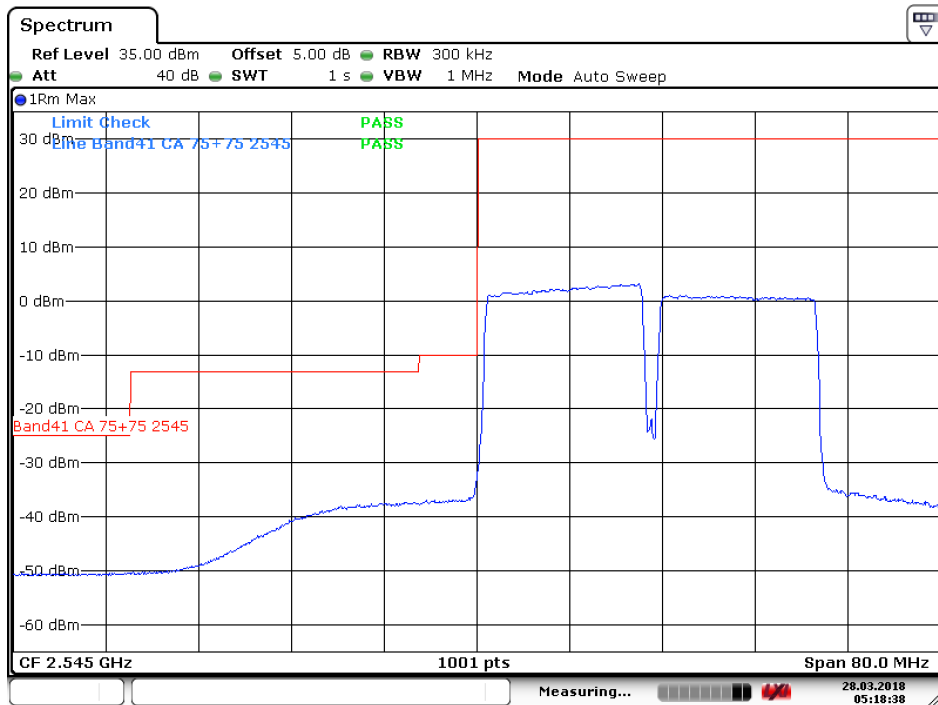
5.1.1.1.5 Test RB= P\_75@0 S\_0@0



Date: 28.MAR.2018 05:19:45



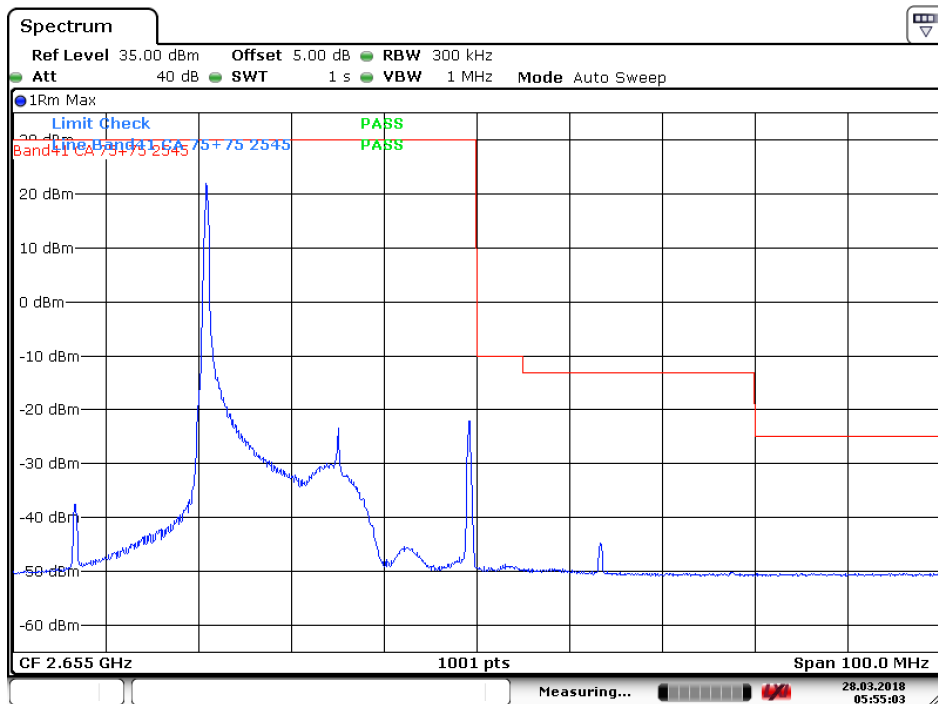
5.1.1.1.6 Test RB= P\_75@0 S\_75@0



Date: 28.MAR.2018 05:18:38

5.1.1.1.2 Test Channel = HCH

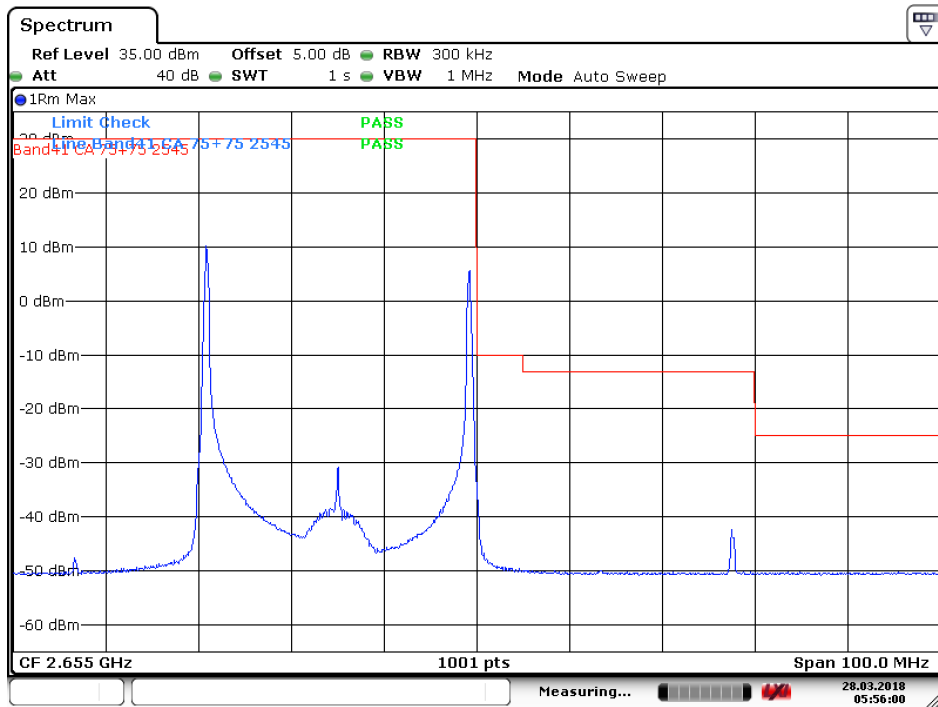
5.1.1.1.2.1 Test RB= P\_1@0 S\_0@0



Date: 28.MAR.2018 05:55:04

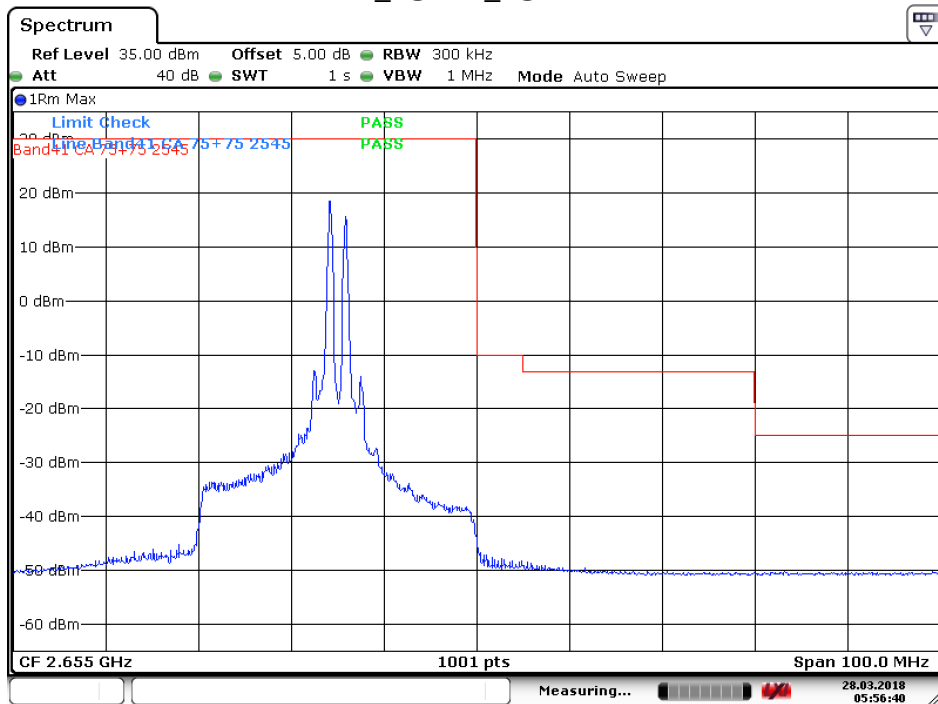
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**5.1.1.1.2.2 Test RB= P\_1@0 S\_1@74**



Date: 28.MAR.2018 05:56:00

**5.1.1.1.2.3 Test RB= P\_1@74 S\_1@0**

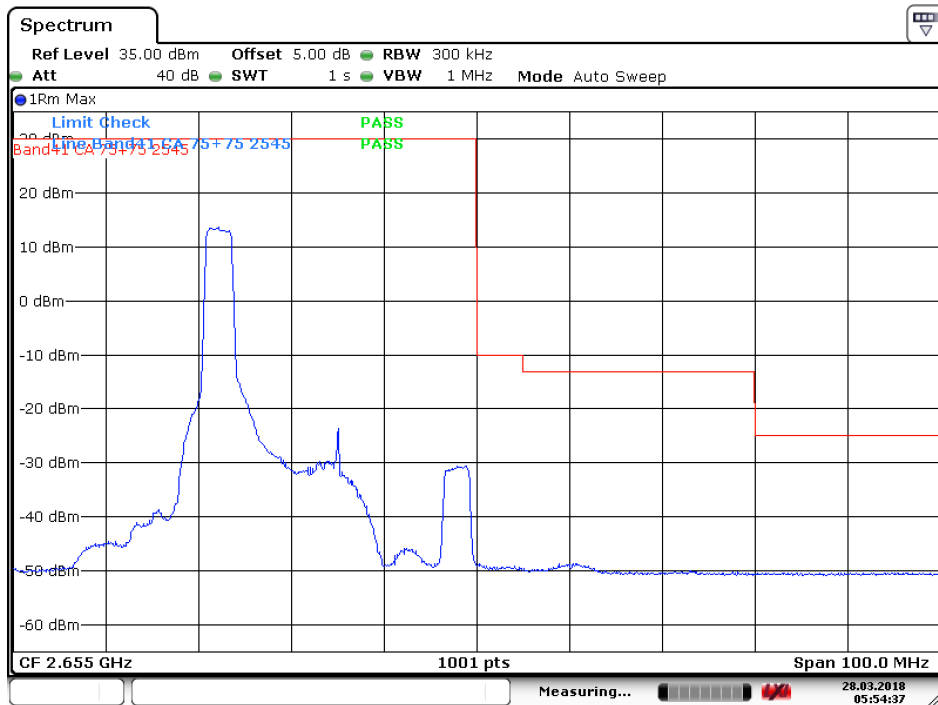


Date: 28.MAR.2018 05:56:40



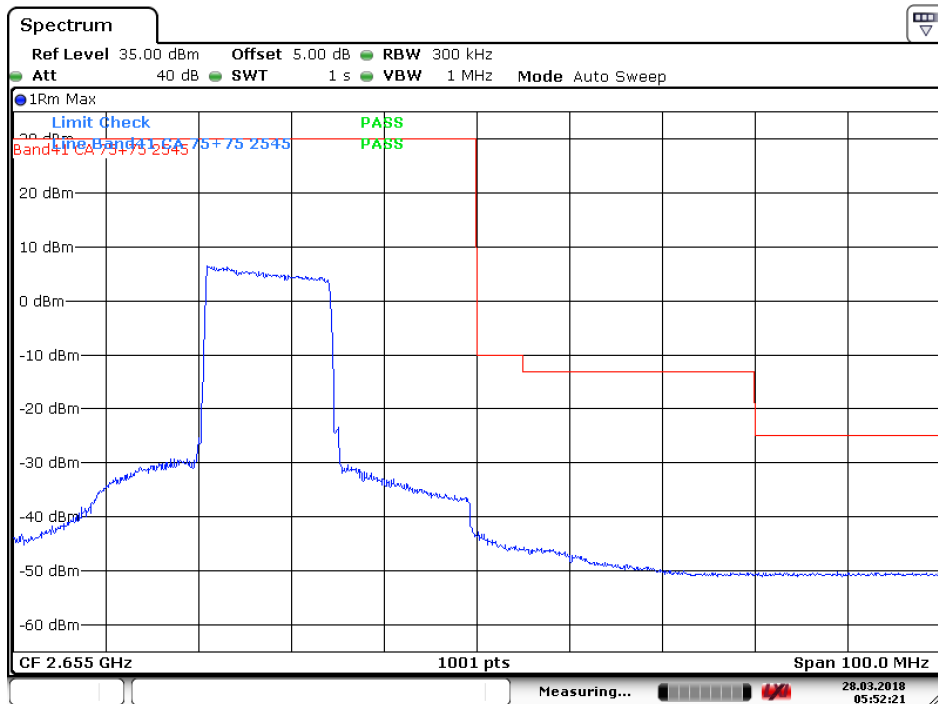


5.1.1.1.2.4 Test RB= P\_16@0 S\_0@0



Date: 28.MAR.2018 05:54:37

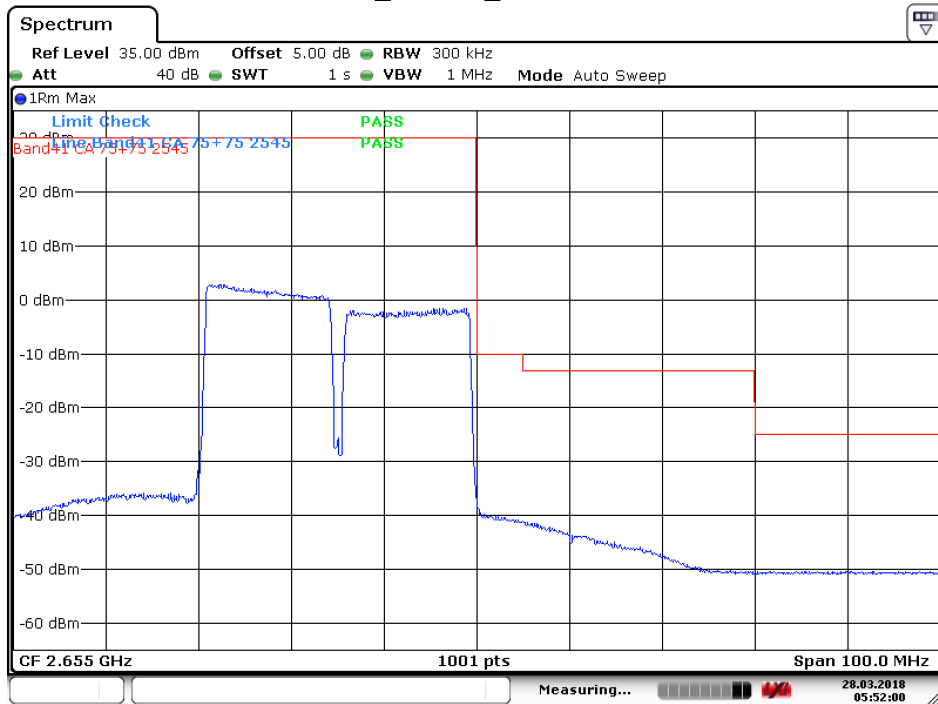
5.1.1.1.2.5 Test RB= P\_75@0 S\_0@0



Date: 28.MAR.2018 05:52:21



5.1.1.1.2.6 Test RB= P\_75@0 S\_75@0

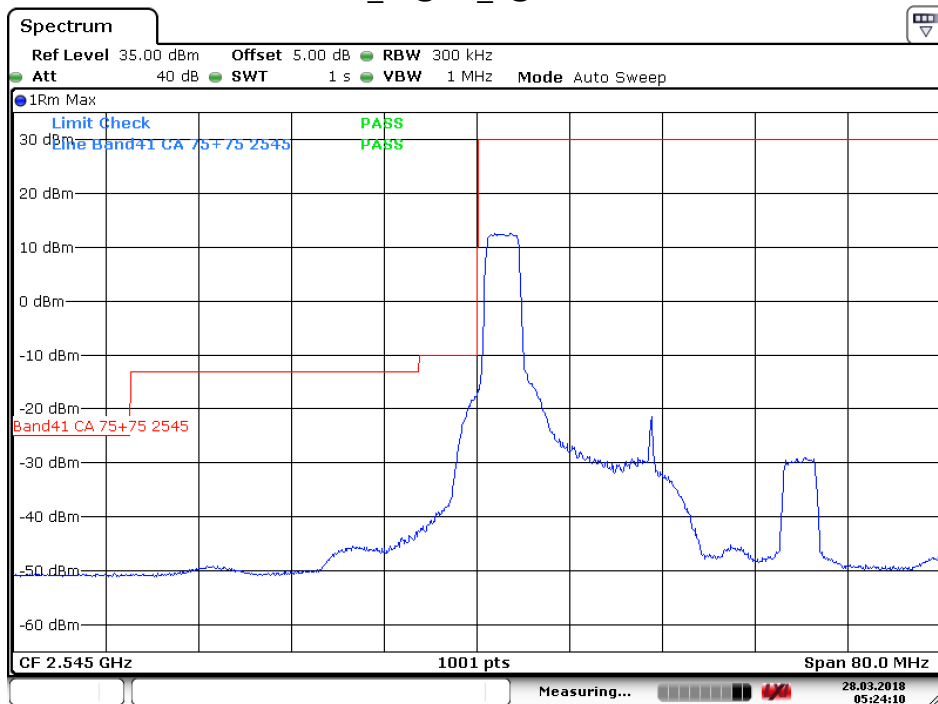


Date: 28.MAR.2018 05:52:00

5.1.1.2 Test Mode = LTE/TM2 75RB+75RB

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=P\_16@0 S\_0@0

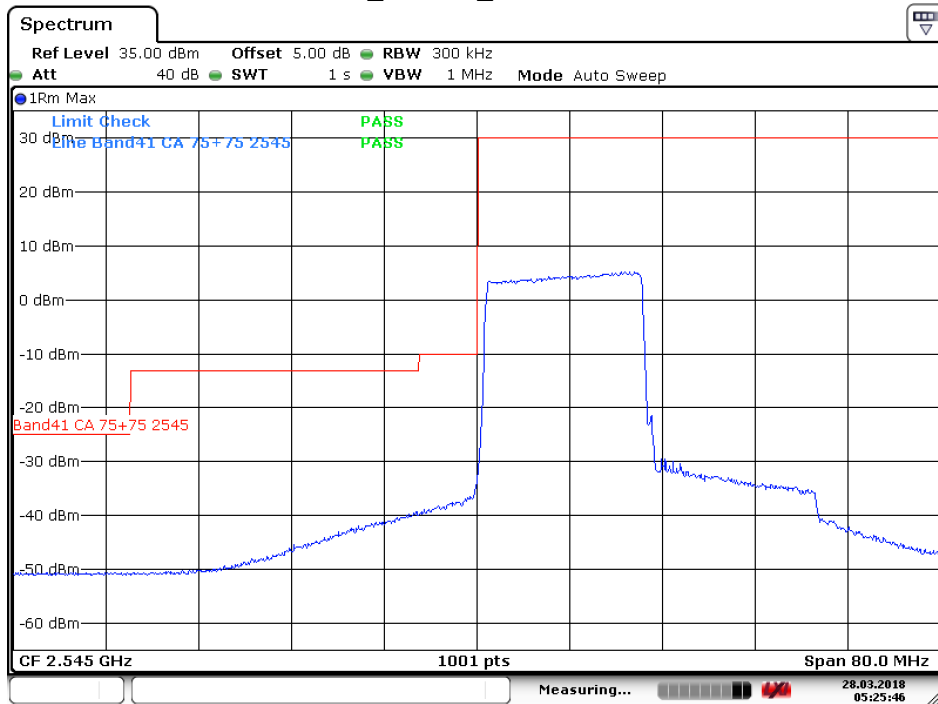


Date: 28.MAR.2018 05:24:10

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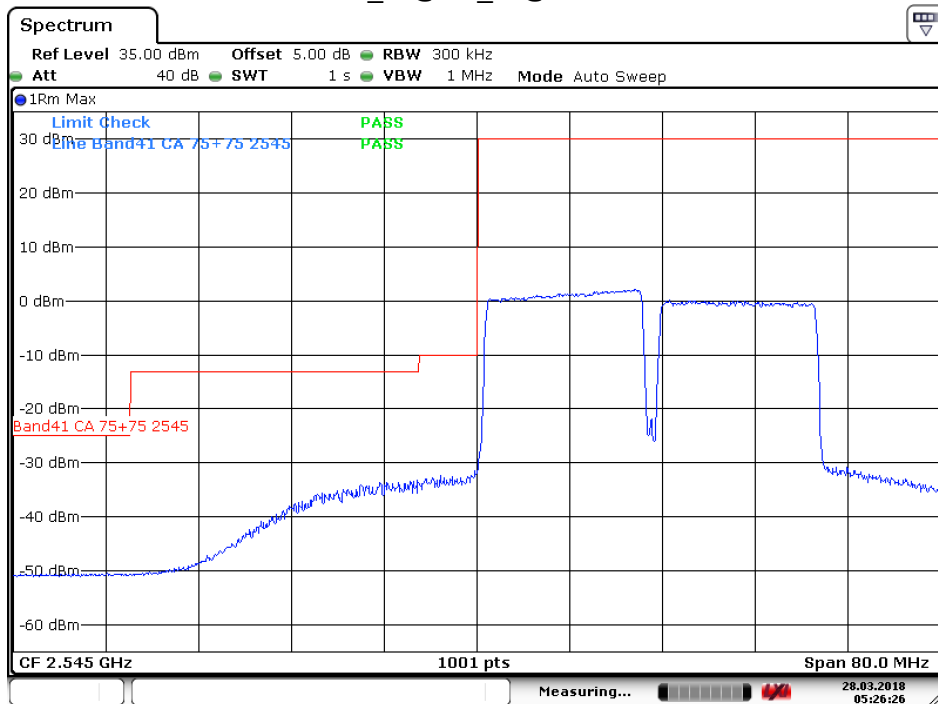


5.1.1.2.1.2 Test RB=P\_75@0 S\_0@0



Date: 28.MAR.2018 05:25:46

5.1.1.2.1.3 Test RB=P\_75@0 S\_75@0

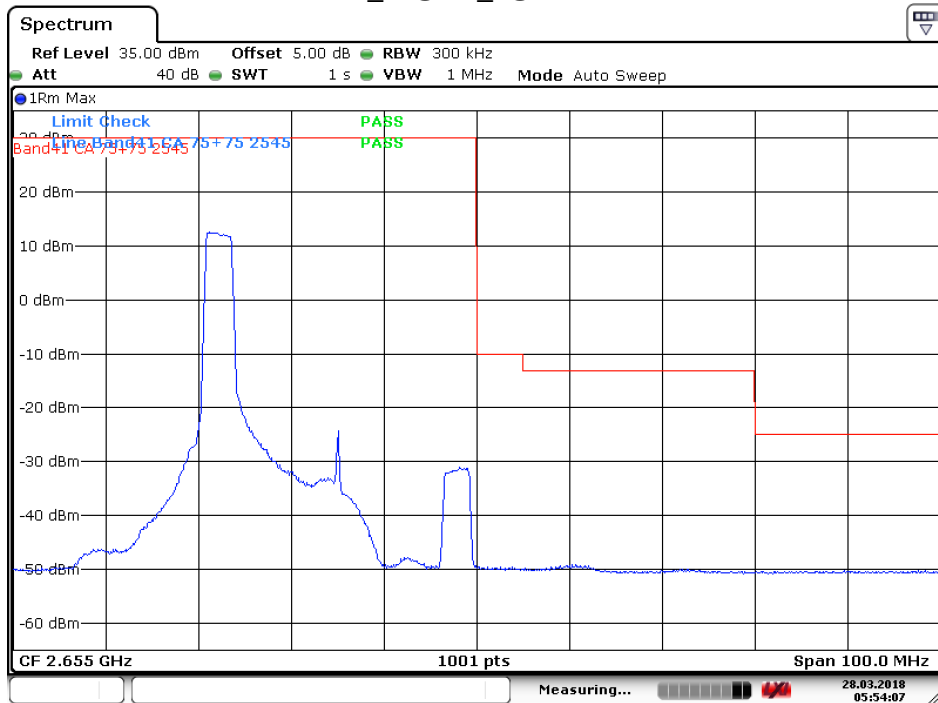


Date: 28.MAR.2018 05:26:27



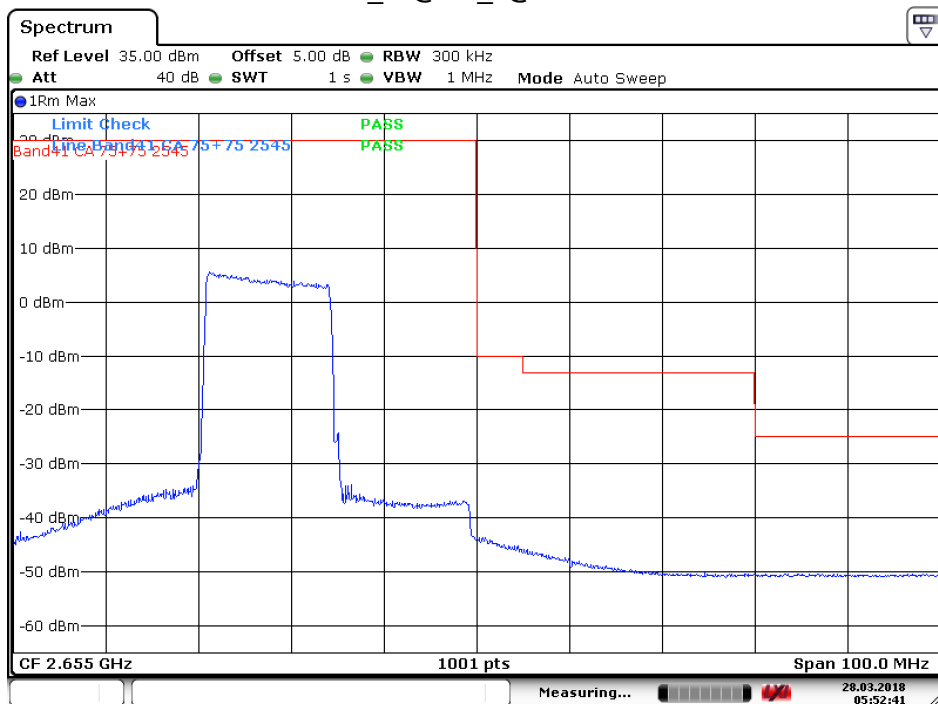
5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=P\_16@0 S\_0@0



Date: 28.MAR.2018 05:54:07

5.1.1.2.2.2 Test RB=P\_75@0 S\_0@0



Date: 28.MAR.2018 05:52:42



5.1.1.2.2.3 Test RB=P\_75@0 S\_75@0

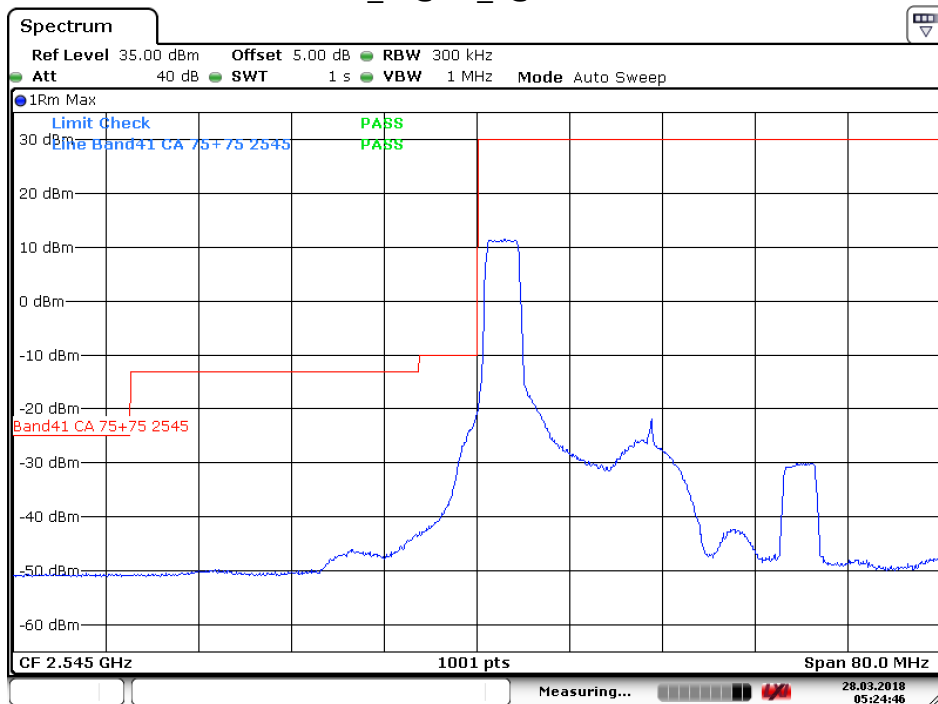


Date: 28.MAR.2018 05:51:38

5.1.1.3 Test Mode = LTE/TM3 75RB+75RB

5.1.1.3.1 Test Channel = LCH

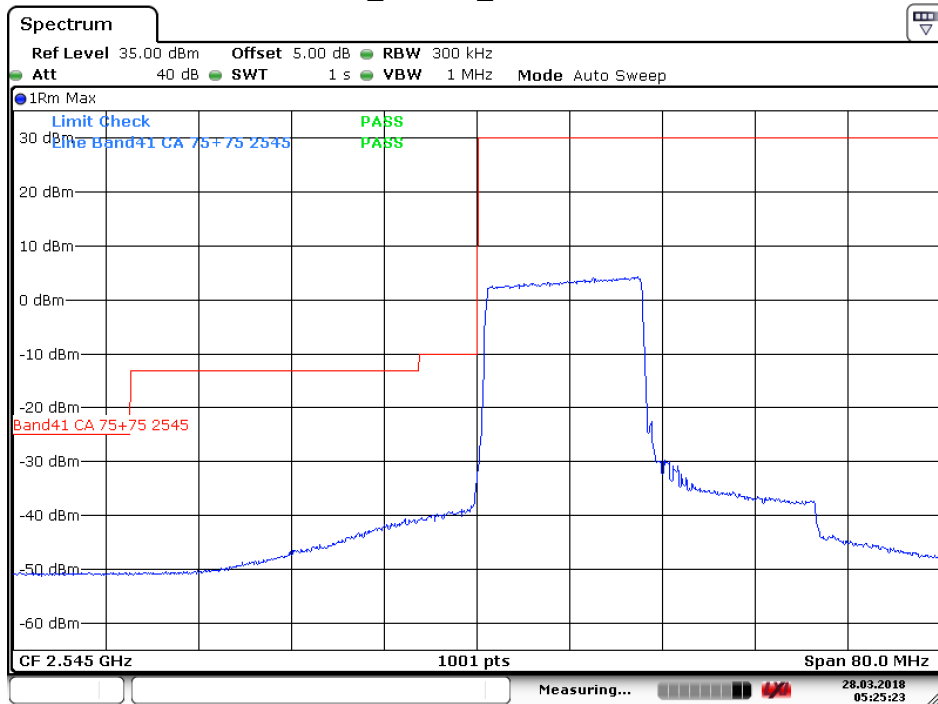
5.1.1.3.1.1 Test RB=P\_16@0 S\_0@0



Date: 28.MAR.2018 05:24:47

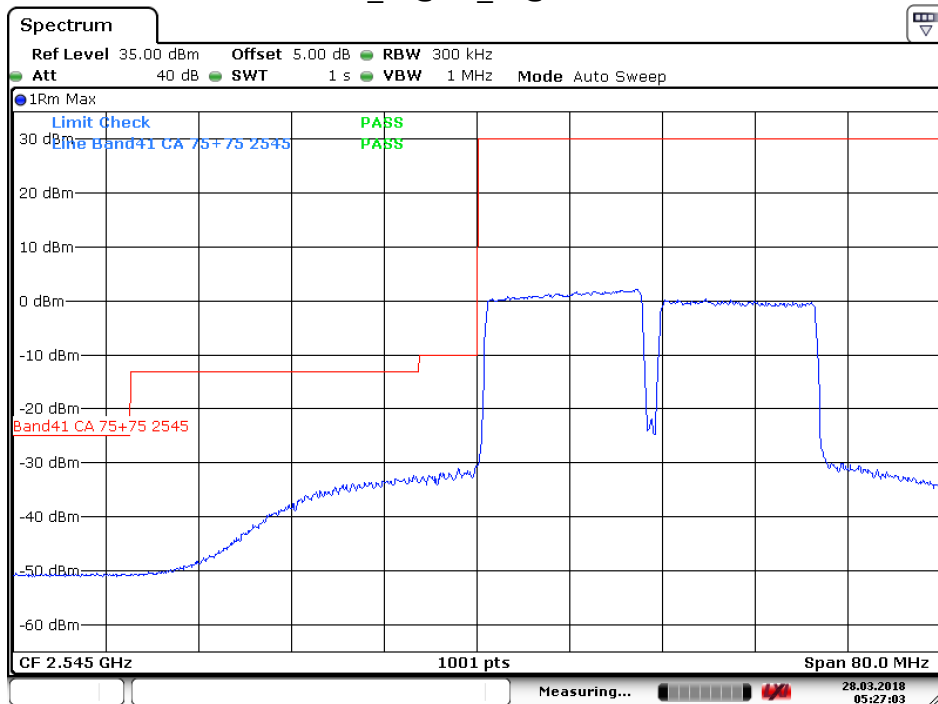


5.1.1.3.1.2 Test RB=P\_75@0 S\_0@0



Date: 28.MAR.2018 05:25:23

5.1.1.3.1.3 Test RB=P\_75@0 S\_75@0



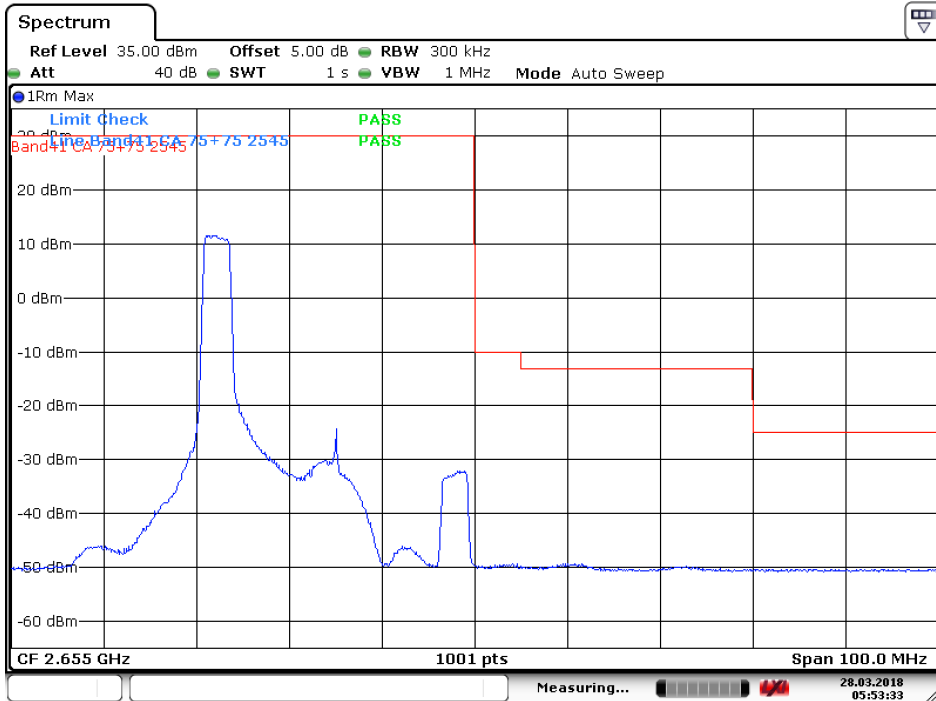
Date: 28.MAR.2018 05:27:03

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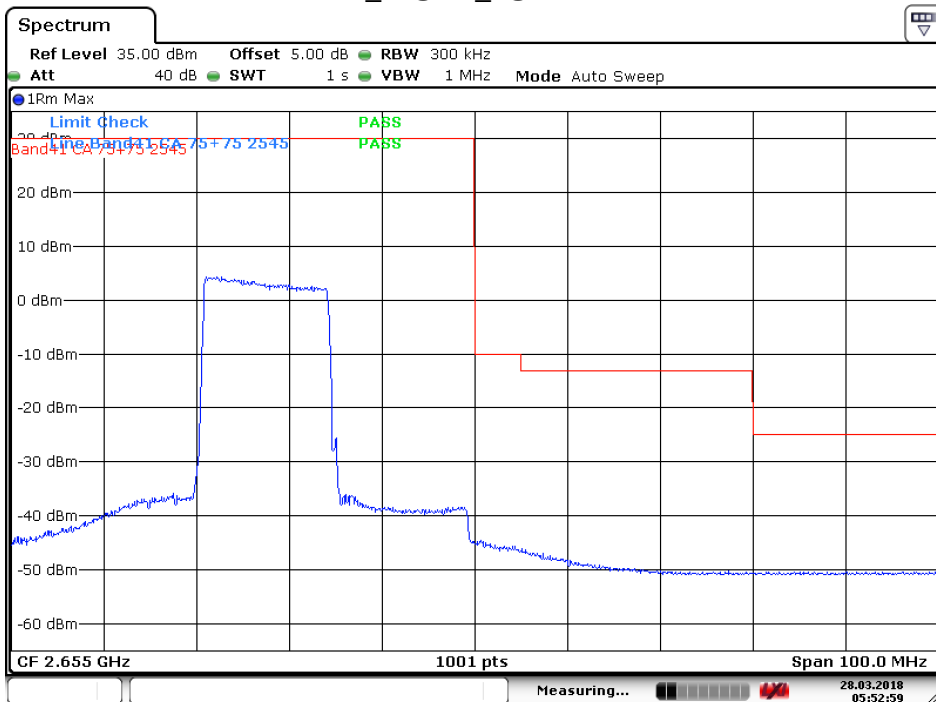
5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=P\_16@0 S\_0@0



Date: 28.MAR.2018 05:53:34

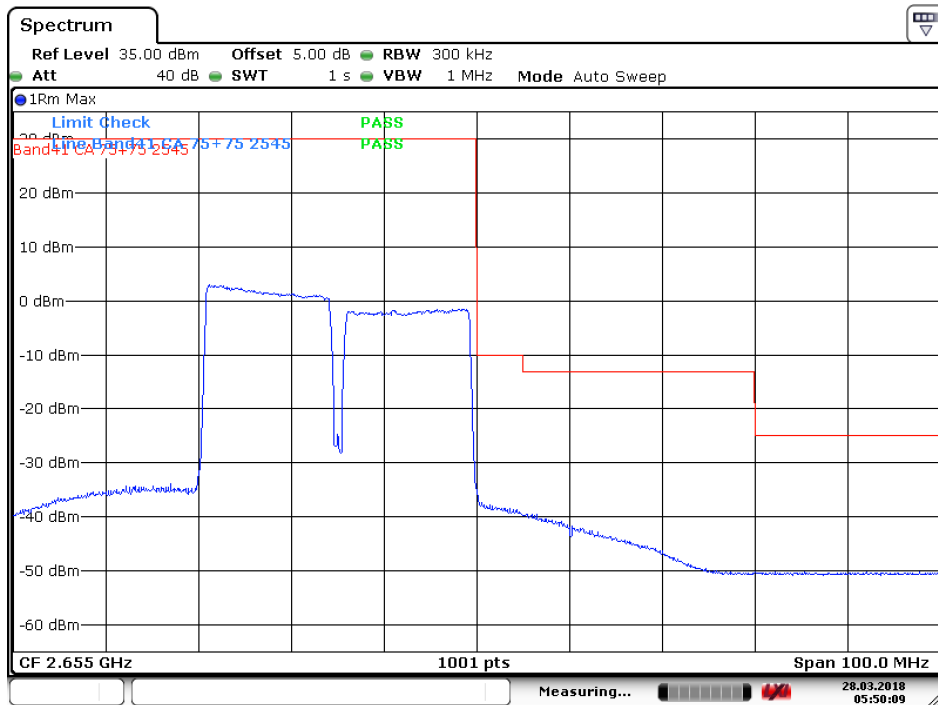
5.1.1.3.2.2 Test RB=P\_75@0 S\_0@0



Date: 28.MAR.2018 05:53:00



5.1.1.3.2.3 Test RB=P\_75@0 S\_75@0

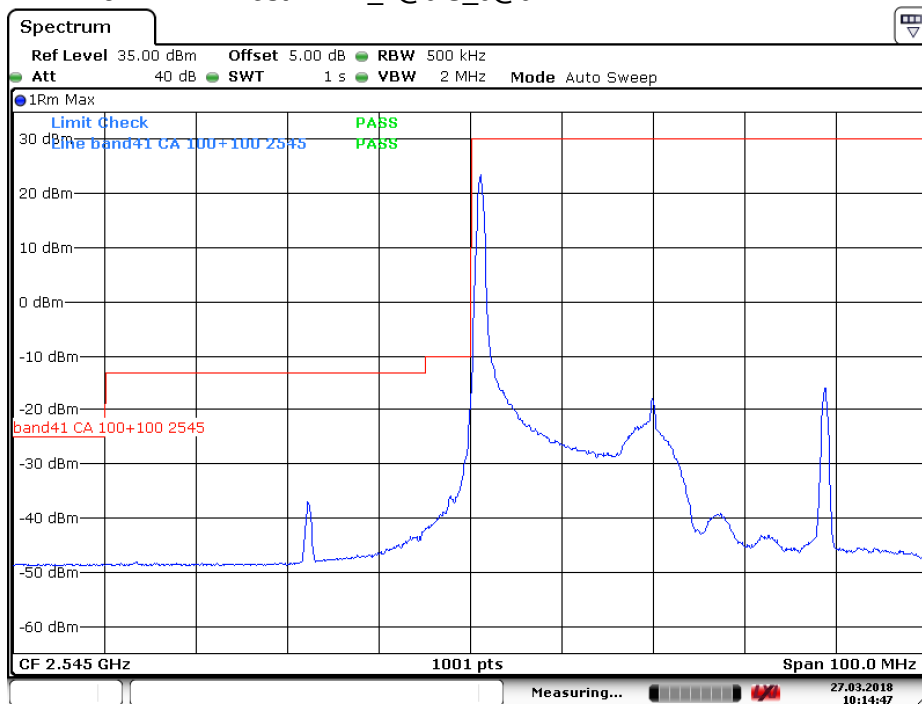


Date: 28.MAR.2018 05:50:09

5.1.1.4 Test Mode = LTE/TM1 100RB+100RB

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=P\_1@0 S\_0@0



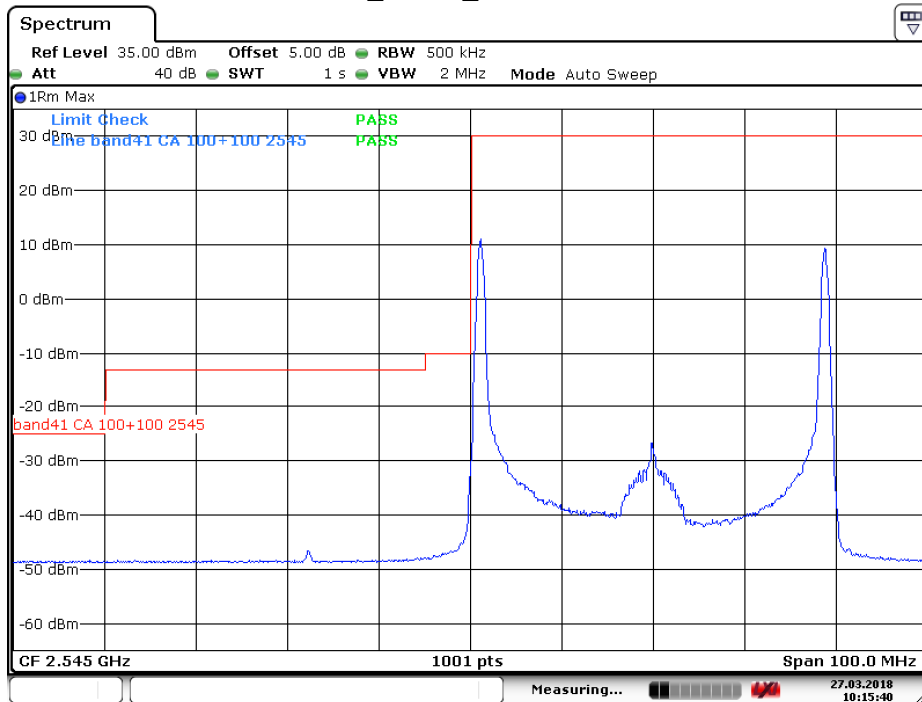
Date: 27.MAR.2018 10:14:47

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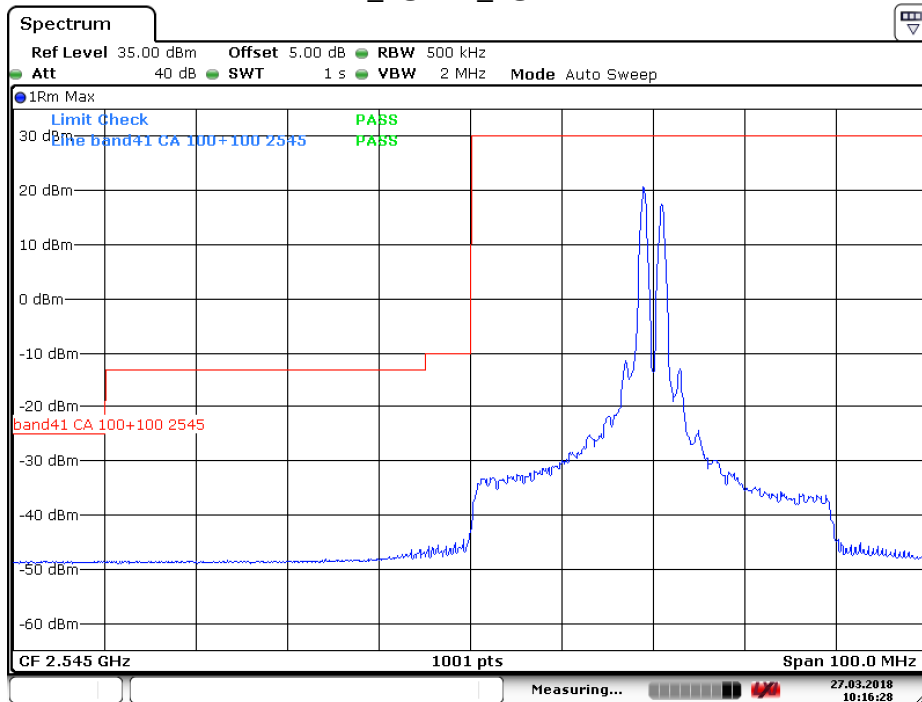


5.1.1.4.1.2 Test RB=P\_1@0 S\_1@99



Date: 27.MAR.2018 10:15:40

5.1.1.4.1.3 Test RB=P\_1@99 S\_1@0

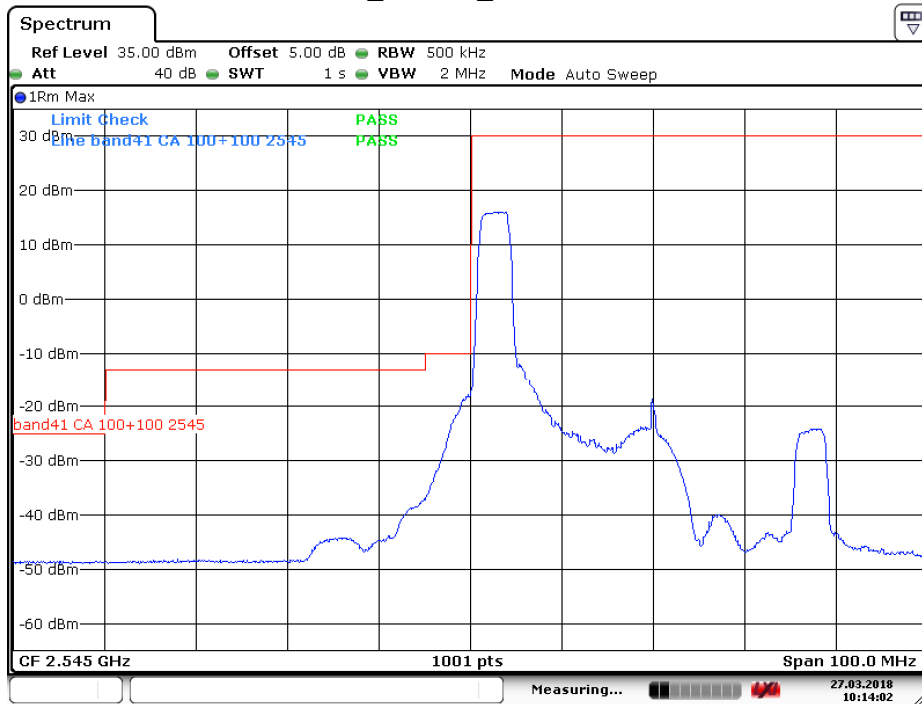


Date: 27.MAR.2018 10:16:28

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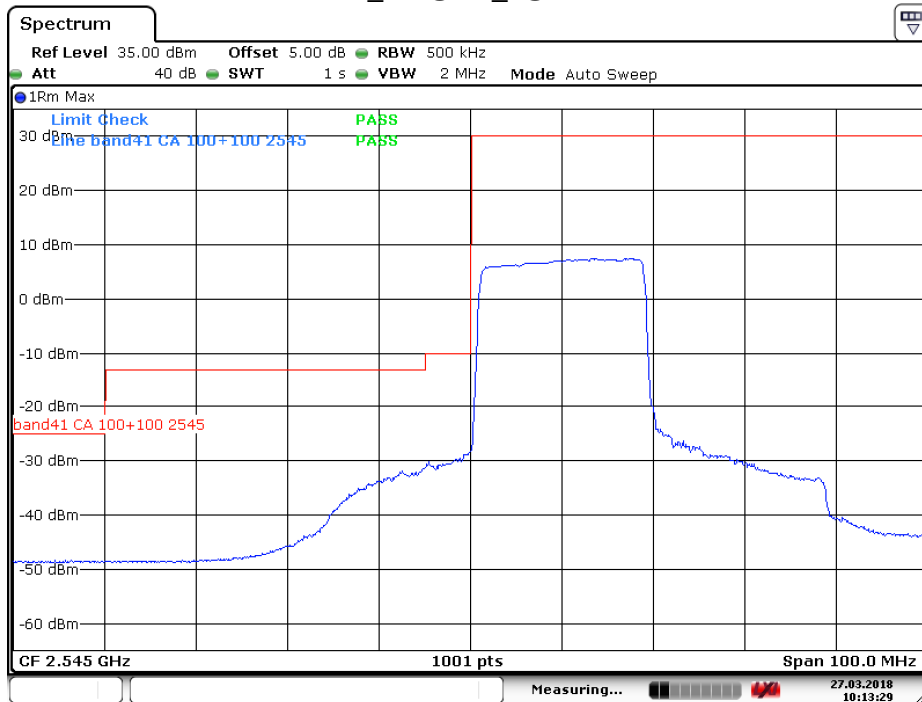


5.1.1.4.1.4 Test RB=P\_18@0 S\_0@0



Date: 27.MAR.2018 10:14:02

5.1.1.4.1.5 Test RB=P\_100@0 S\_0@0

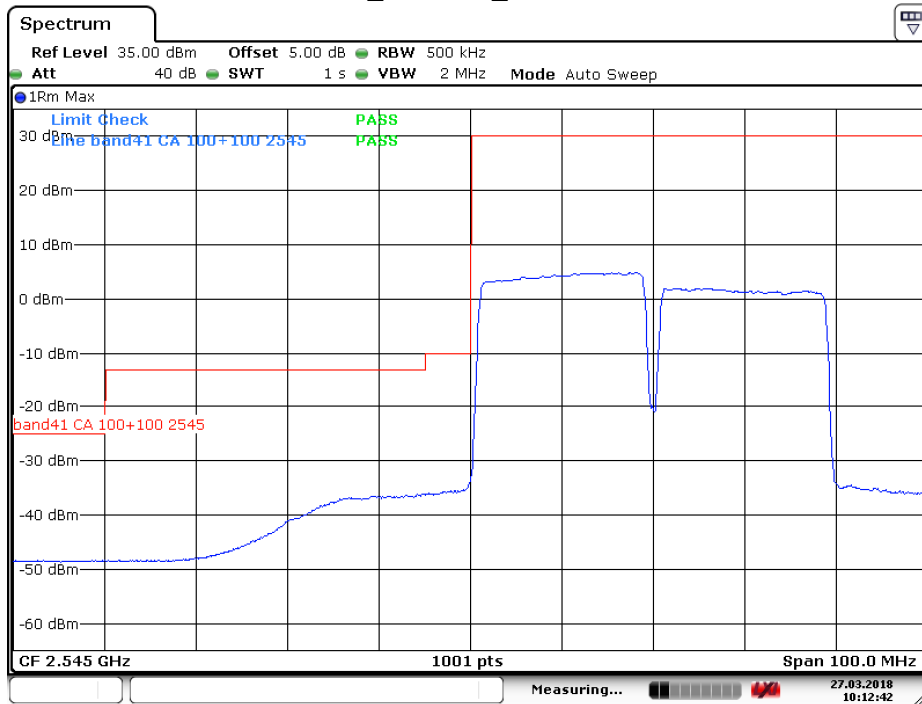


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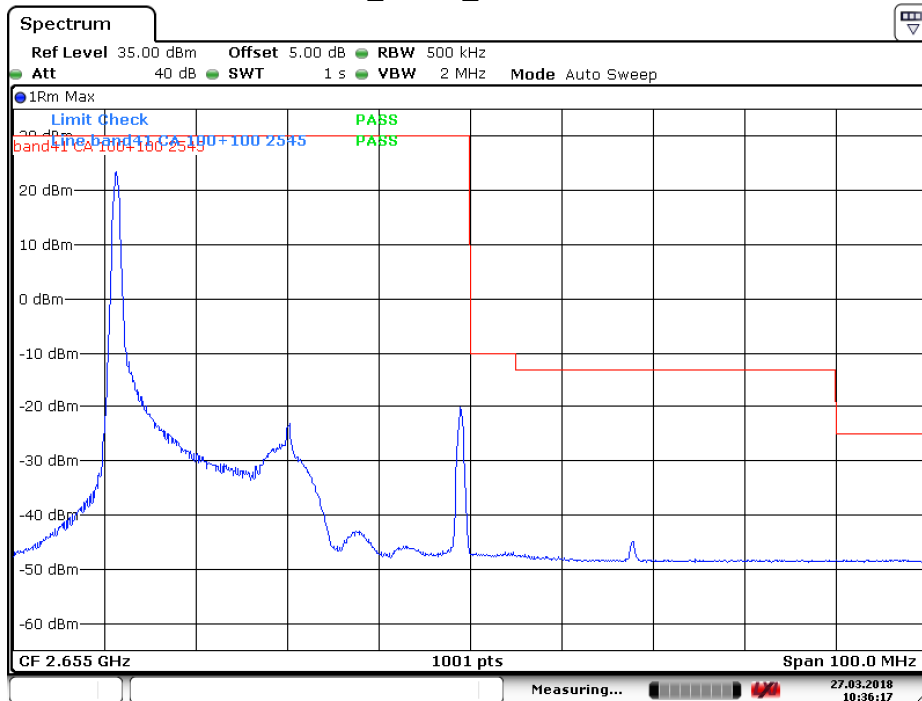
5.1.1.4.1.6 Test RB=P\_100@0 S\_100@0



Date: 27.MAR.2018 10:12:43

5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=P\_1@0 S\_0@0

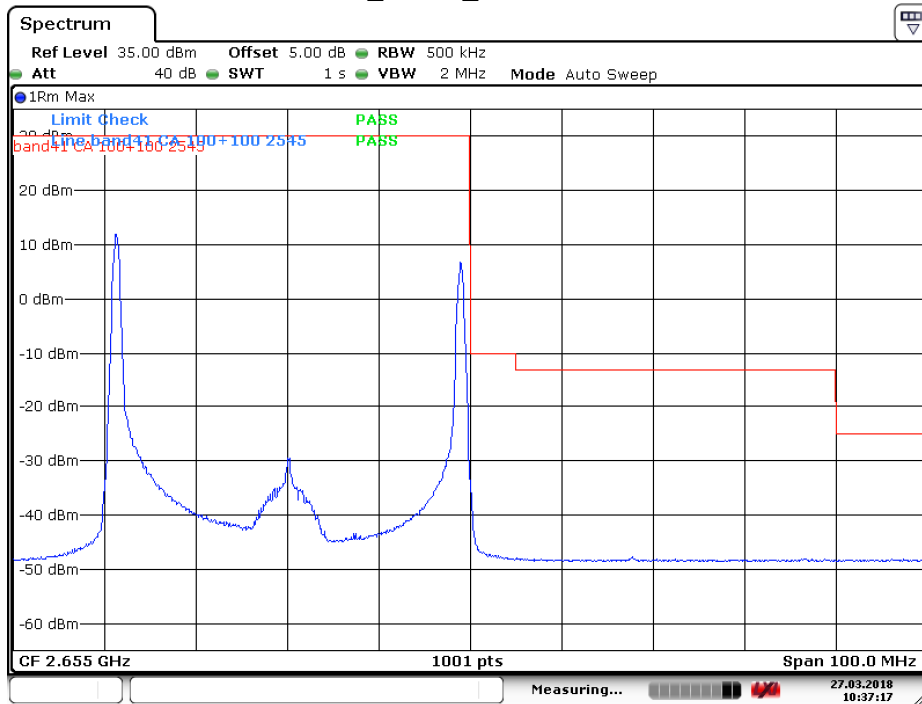


Date: 27.MAR.2018 10:36:18

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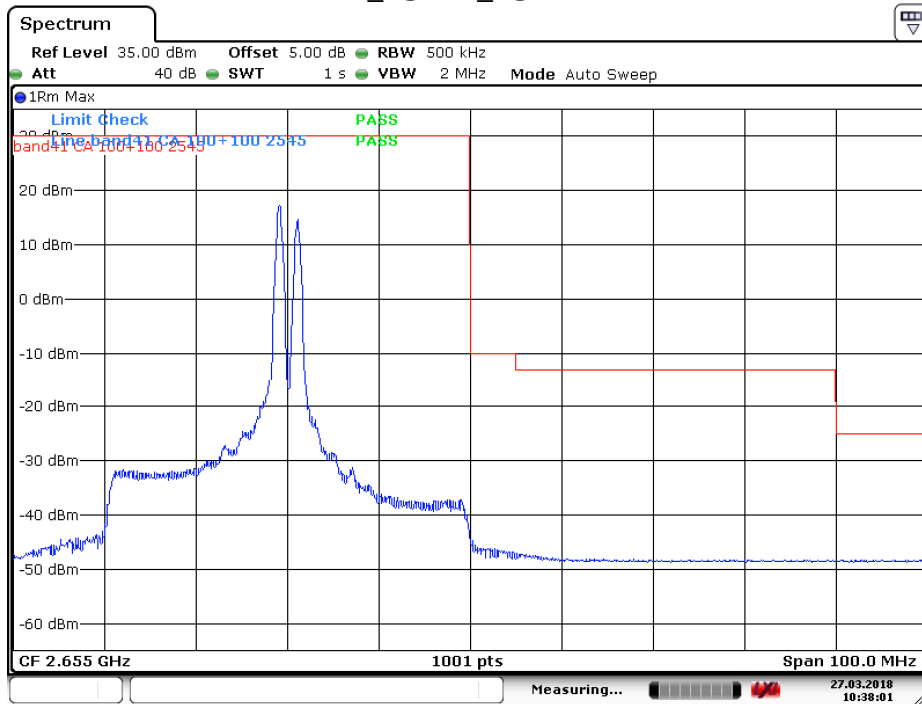


5.1.1.4.2.2 Test RB=P\_1@0 S\_1@99



Date: 27.MAR.2018 10:37:17

5.1.1.4.2.3 Test RB=P\_1@99 S\_1@0



Date: 27.MAR.2018 10:38:01

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