



Appendix B

E-UTRA Band CA_41C



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE Band CA_41C

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	PCC RB/ SCC RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
CA_41C	LTE/TM1	75RB+75RB	LCH	75RB#0/75RB#0	20.96	21.46	33.00	PASS
				75RB#0/0RB#0	21.99	22.49	33.00	PASS
				16RB#0/0RB#0	22.89	23.39	33.00	PASS
				1RB#74/1RB#0	22.62	23.12	33.00	PASS
				1RB#0/1RB#74	13.39	13.89	33.00	PASS
				1RB#0/0RB#0	22.68	23.18	33.00	PASS
			MCH	75RB#0/75RB#0	20.94	21.44	33.00	PASS
				75RB#0/0RB#0	21.99	22.49	33.00	PASS
				16RB#0/0RB#0	22.81	23.31	33.00	PASS
				1RB#74/1RB#0	22.58	23.08	33.00	PASS
				1RB#0/1RB#74	13.14	13.64	33.00	PASS
				1RB#0/0RB#0	22.72	23.22	33.00	PASS
			HCH	75RB#0/75RB#0	20.56	21.06	33.00	PASS
				75RB#0/0RB#0	21.72	22.22	33.00	PASS
				16RB#0/0RB#0	22.53	23.03	33.00	PASS
				1RB#74/1RB#0	22.16	22.66	33.00	PASS
				1RB#0/1RB#74	12.81	13.31	33.00	PASS
				1RB#0/0RB#0	22.42	22.92	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_41C	LTE/TM2	75RB+75RB	LCH	75RB#0/75RB#0	19.92	20.42	33.00	PASS
				75RB#0/0RB#0	20.94	21.44	33.00	PASS
				16RB#0/0RB#0	21.88	22.38	33.00	PASS
			MCH	75RB#0/75RB#0	19.88	20.38	33.00	PASS
				75RB#0/0RB#0	20.98	21.48	33.00	PASS
				16RB#0/0RB#0	21.85	22.35	33.00	PASS
			HCH	75RB#0/75RB#0	19.55	20.05	33.00	PASS
				75RB#0/0RB#0	20.64	21.14	33.00	PASS
				16RB#0/0RB#0	21.56	22.06	33.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	PCC RB/ SCC RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
CA_41C	LTE/TM3	75RB+75RB	LCH	75RB#0/75RB#0	19.68	20.18	33.00	PASS
				75RB#0/0RB#0	19.84	20.34	33.00	PASS
				16RB#0/0RB#0	20.89	21.39	33.00	PASS
			MCH	75RB#0/75RB#0	19.72	20.22	33.00	PASS
				75RB#0/0RB#0	19.81	20.31	33.00	PASS
				16RB#0/0RB#0	20.84	21.34	33.00	PASS
			HCH	75RB#0/75RB#0	19.41	19.91	33.00	PASS
				75RB#0/0RB#0	19.48	19.98	33.00	PASS
				16RB#0/0RB#0	20.51	21.01	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_41C	LTE/TM1	100RB+100RB	LCH	100RB#0/100RB#0	21.05	21.55	33.00	PASS
				100RB#0/0RB#0	22.17	22.67	33.00	PASS
				18RB#0/0RB#0	23.46	23.96	33.00	PASS
				1RB#99/1RB#0	22.69	23.19	33.00	PASS
				1RB#0/1RB#99	14.04	14.54	33.00	PASS
				1RB#0/0RB#0	23.41	23.91	33.00	PASS
			MCH	100RB#0/100RB#0	21.09	21.59	33.00	PASS
				100RB#0/0RB#0	22.17	22.67	33.00	PASS
				18RB#0/0RB#0	23.43	23.93	33.00	PASS
				1RB#99/1RB#0	22.67	23.17	33.00	PASS
				1RB#0/1RB#99	13.89	14.39	33.00	PASS
				1RB#0/0RB#0	23.45	23.95	33.00	PASS
			HCH	100RB#0/100RB#0	20.84	21.34	33.00	PASS
				100RB#0/0RB#0	21.80	22.30	33.00	PASS
				18RB#0/0RB#0	23.01	23.51	33.00	PASS
				1RB#99/1RB#0	22.32	22.82	33.00	PASS
				1RB#0/1RB#99	13.56	14.06	33.00	PASS
				1RB#0/0RB#0	23.19	23.69	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_41C	LTE/TM2	100RB+100RB	LCH	100RB#0/100RB#0	20.04	20.54	33.00	PASS
				100RB#0/0RB#0	21.12	21.62	33.00	PASS
				18RB#0/0RB#0	22.43	22.93	33.00	PASS
			MCH	100RB#0/100RB#0	20.06	20.56	33.00	PASS
				100RB#0/0RB#0	21.16	21.66	33.00	PASS
				18RB#0/0RB#0	22.44	22.94	33.00	PASS
			HCH	100RB#0/100RB#0	19.87	20.37	33.00	PASS
				100RB#0/0RB#0	20.83	21.33	33.00	PASS
				18RB#0/0RB#0	22.09	22.59	33.00	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	PCC RB/ SCC RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
CA_41C	LTE/TM3	100RB+100RB	LCH	100RB#0/100RB#0	19.95	20.45	33.00	PASS
				100RB#0/0RB#0	20.03	20.53	33.00	PASS
				18RB#0/0RB#0	21.26	21.76	33.00	PASS
			MCH	100RB#0/100RB#0	19.94	20.44	33.00	PASS
				100RB#0/0RB#0	20.03	20.53	33.00	PASS
				18RB#0/0RB#0	21.38	21.88	33.00	PASS
			HCH	100RB#0/100RB#0	19.62	20.12	33.00	PASS
				100RB#0/0RB#0	19.76	20.26	33.00	PASS
				18RB#0/0RB#0	20.99	21.49	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

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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_41C	TM1/75RB+75RB	P_75@0	S_75@0	MCH	7.28	13	PASS
	TM1/75RB+75RB	P_75@0	S_75@0	MCH	6.70	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	6.67	13	PASS
	TM2/100RB+100RB	P_100@0	S_100@0	MCH	6.75	13	PASS
	TM3/100RB+100RB	P_100@0	S_100@0	MCH	7.25	13	PASS

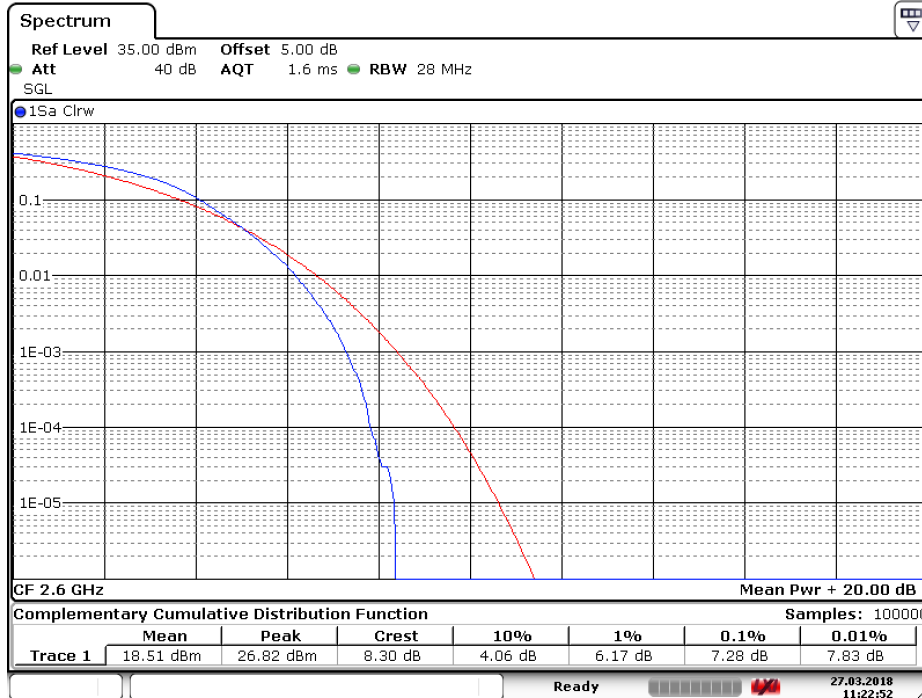
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE Band CA_41C

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

2.1.1.1.1 Test Channel = MCH

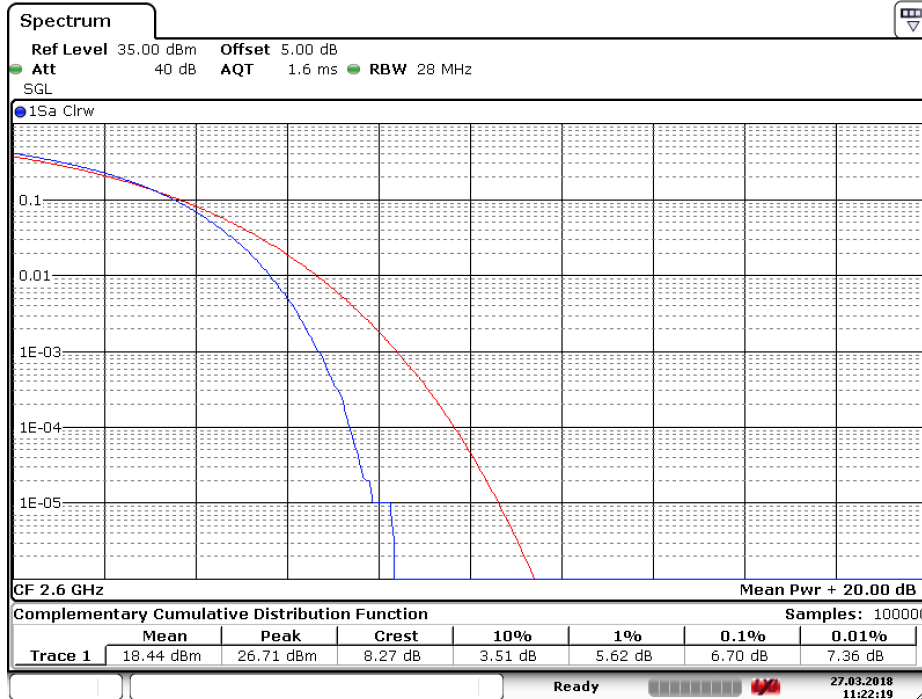


Date: 27.MAR.2018 11:22:52



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

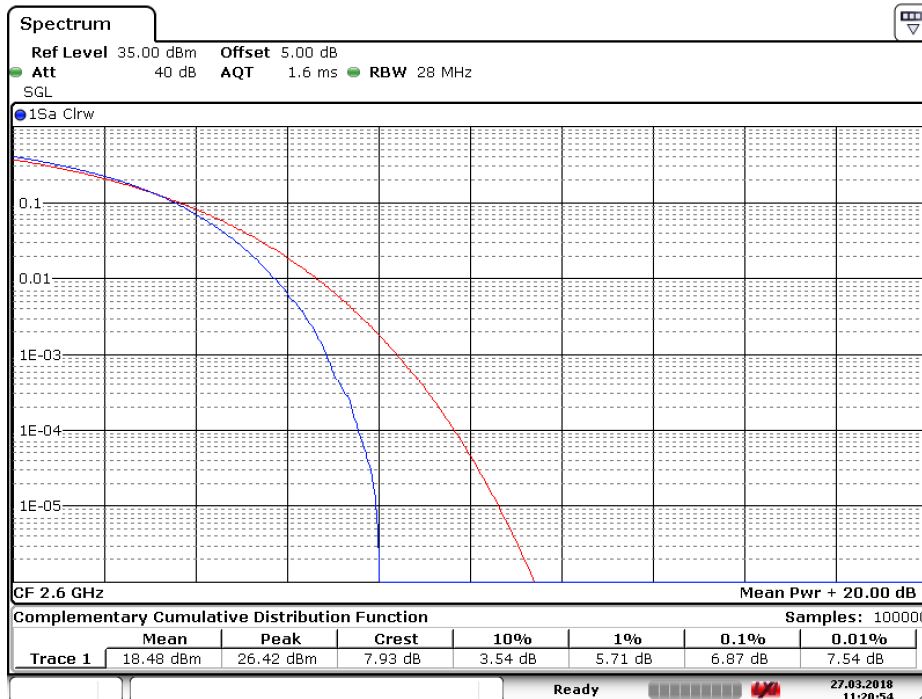
2.1.1.2.1 Test Channel = MCH



Date: 27.MAR.2018 11:22:20

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

2.1.1.3.1 Test Channel = MCH



Date: 27.MAR.2018 11:20:55

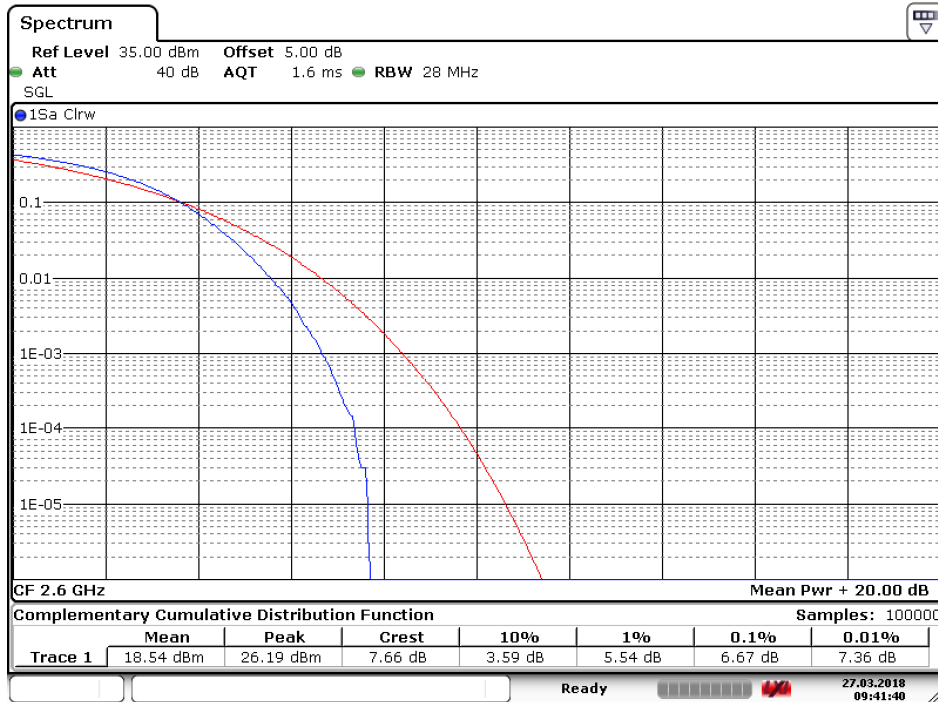
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2.1.2 Test Band = LTE BandCA_41C

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

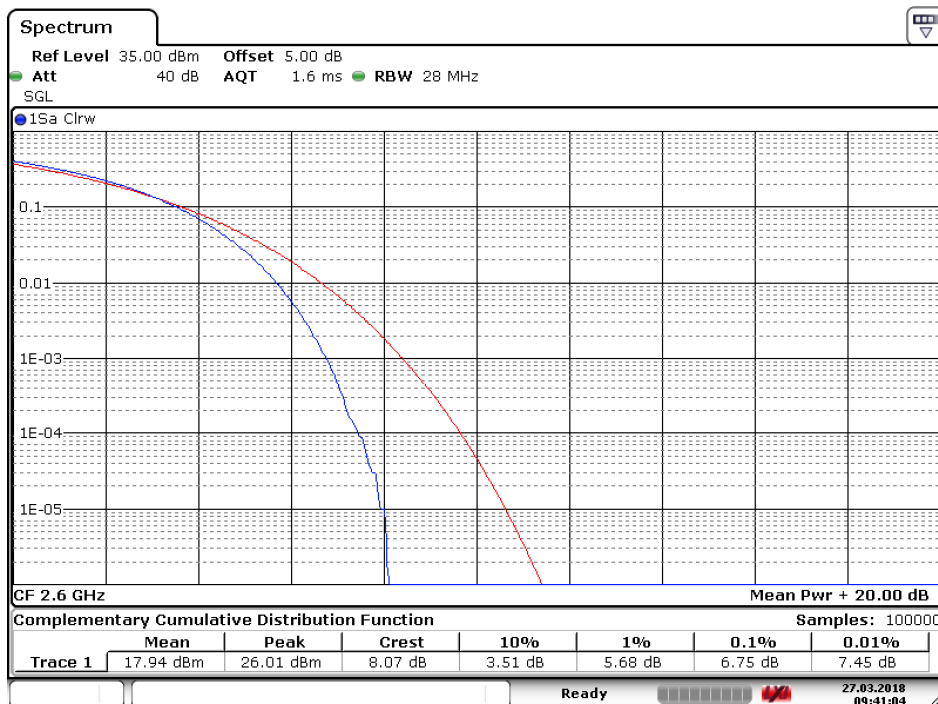
2.1.2.1.1 Test Channel = MCH



Date: 27.MAR.2018 09:41:40

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

2.1.2.2.1 Test Channel = MCH



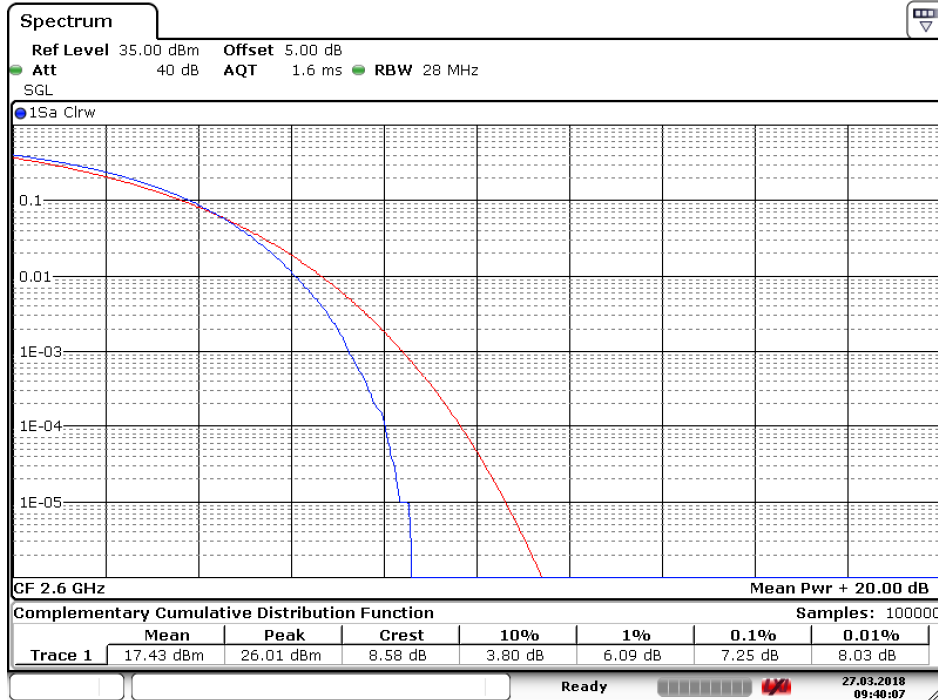
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2.1.2.3 Test Mode = LTE/TM3.Bandwidth=100RB+100RB

2.1.2.3.1 Test Channel = MCH



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3 Modulation Characteristics

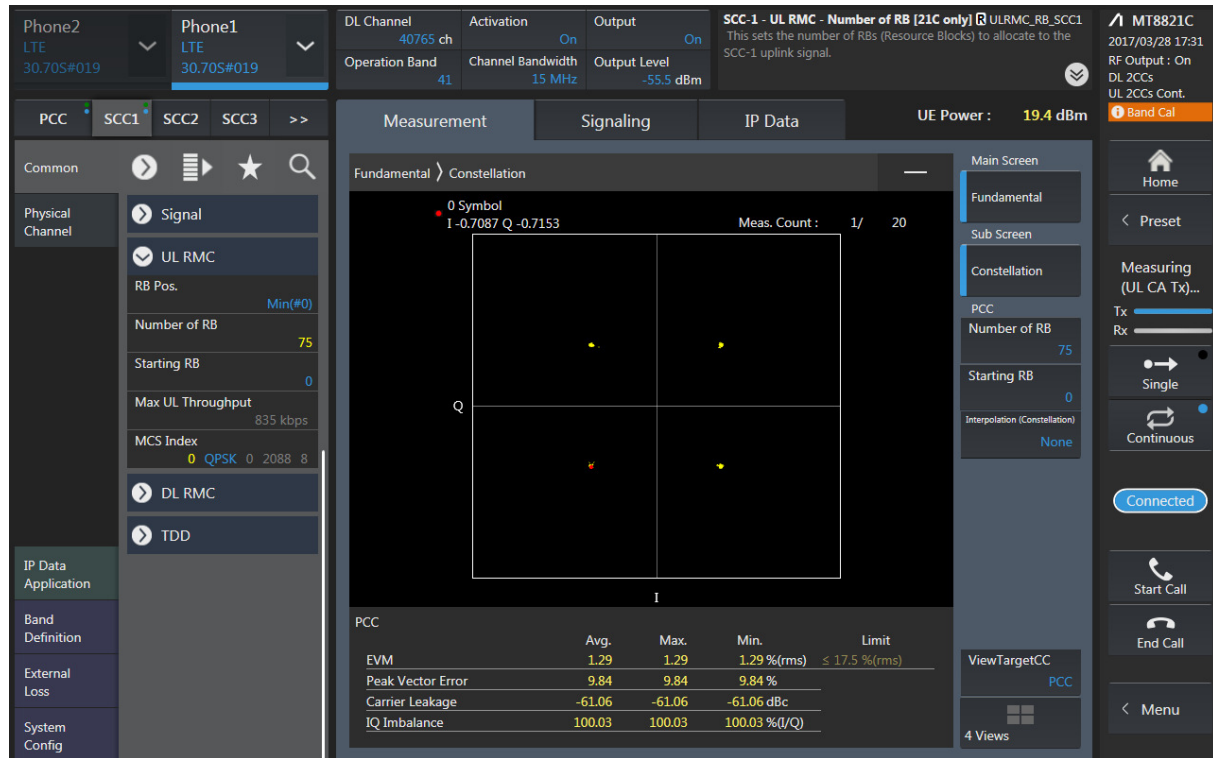
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE Band CA_41C

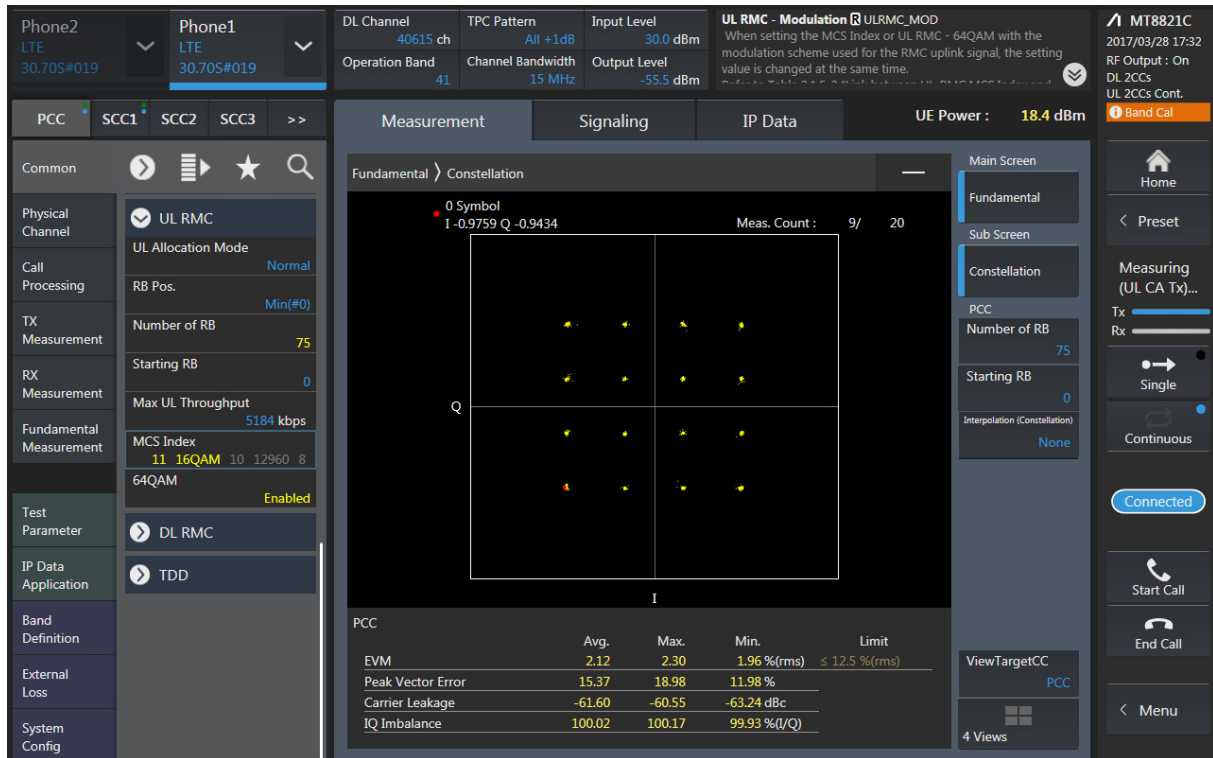
3.1.1.1 Test Mode = LTE /TM1 75RB+75RB

3.1.1.1.1 Test Channel = MCH



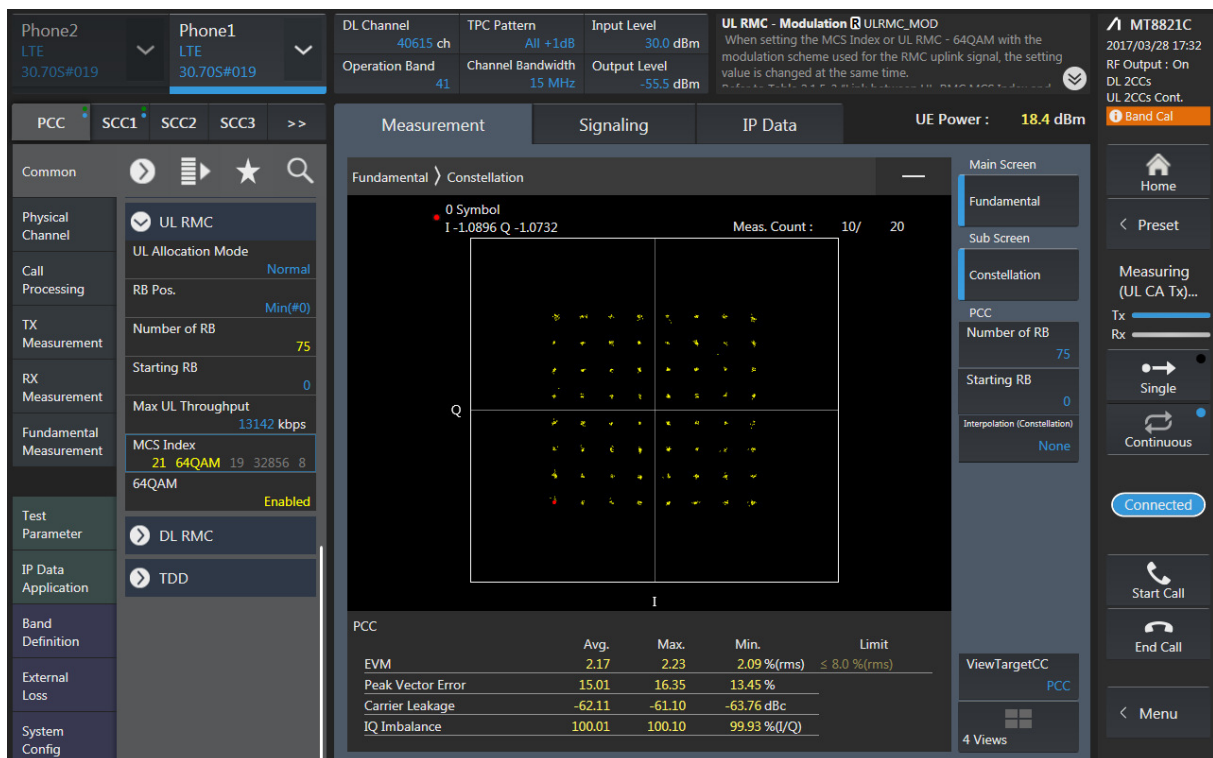
3.1.1.2 Test Mode = LTE /TM2 75RB+75RB

3.1.1.2.1 Test Channel = MCH



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

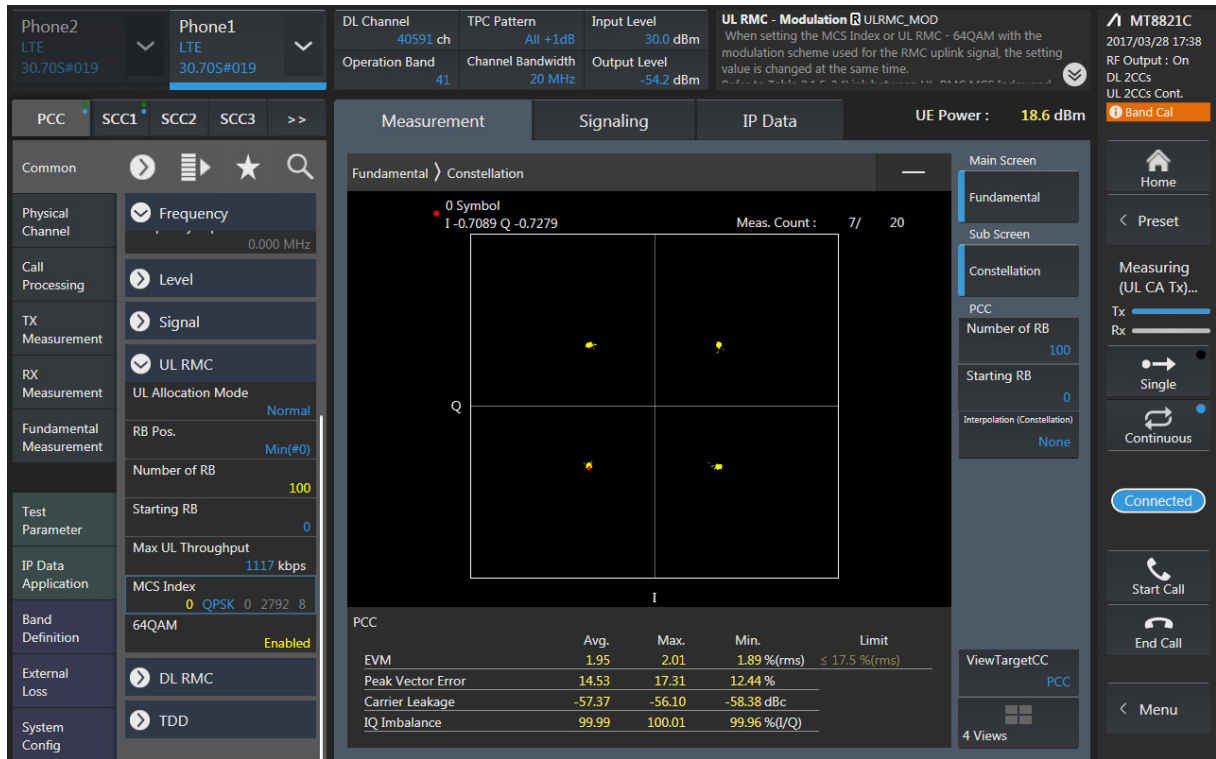
3.1.1.3.1 Test Channel = MCH



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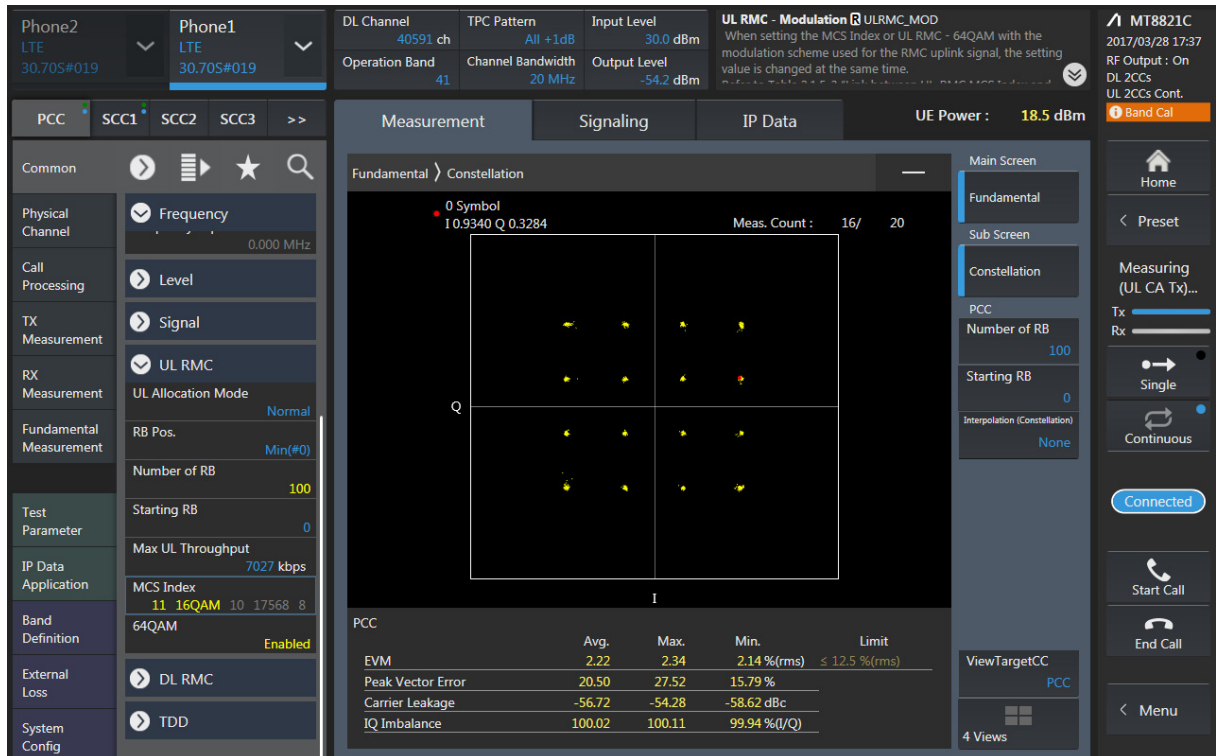
3.1.1.4 Test Mode = LTE /TM1 100RB+100RB

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

The screenshot displays a mobile testing application interface. At the top, it shows 'Phone2 LTE 30.705#019' and 'Phone1 LTE 30.705#019'. Below this, there are tabs for 'PCC', 'SCC1', 'SCC2', and 'SCC3'. The main area is divided into 'Measurement', 'Signaling', and 'IP Data' sections. The 'Measurement' section shows a 'Fundamental Constellation' plot with '0 Symbol' and '10.1647 Q 0.1584'. The 'Signaling' section shows 'UE Power : 18.5 dBm'. The 'IP Data' section shows 'PCC' and 'ViewTargetCC PCC'. The 'Measurement' section also includes a table with the following data:

	Avg.	Max.	Min.	Limit
EVM	2.29	2.43	2.22%(rms)	≤ 8.0%(rms)
Peak Vector Error	15.41	18.68	13.82%	
Carrier Leakage	-57.43	-56.03	-59.00 dBc	
IQ Imbalance	99.98	100.03	99.94%(I/Q)	

The interface also includes a 'Common' section with various settings like 'Frequency', 'Channel', 'Frequency Separation', and 'Level'. On the right side, there are navigation buttons like 'Home', 'Preset', 'Measuring (UL CA Tx)...', 'Single', 'Continuous', 'Connected', 'Start Call', 'End Call', and 'Menu'.

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4 Bandwidth

Part I - Test Results

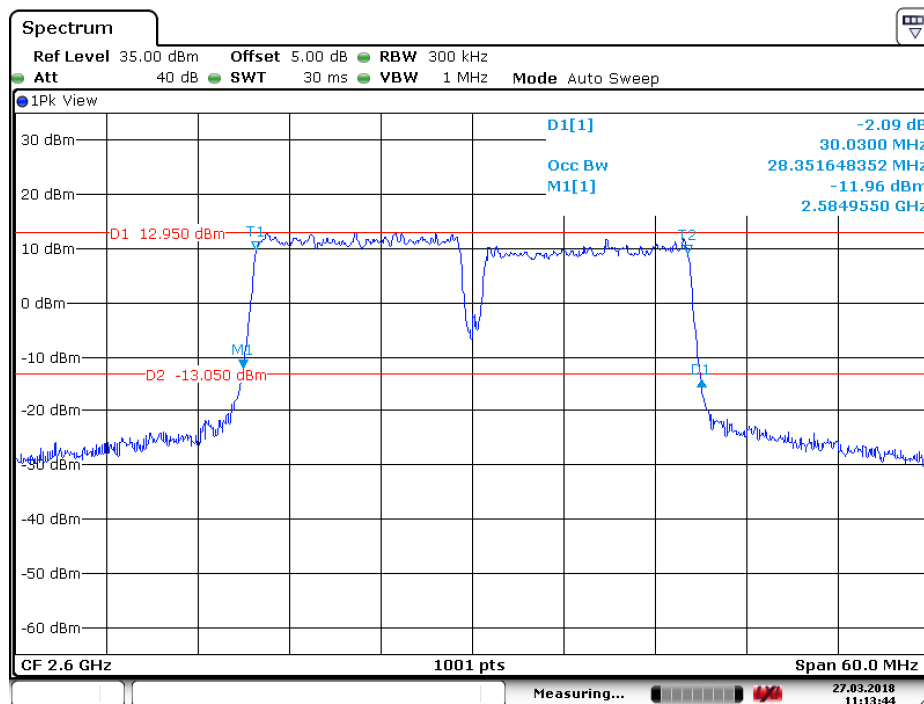
Test Band	Test Mode	PCC RB	SCC RB	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
CA_41C	TM1/75RB+75RB	P_75@0	S_75@0	MCH	28.35	30.03	PASS
	TM1/75RB+75RB	P_75@0	S_75@0	MCH	28.35	30.09	PASS
	TM1/75RB+75RB	P_75@0	S_75@0	MCH	28.35	30.03	PASS
	TM1/100RB+100RB	P_100@0	S_100@0	MCH	37.72	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_41C

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

4.1.1.1.1 Test Channel = MCH

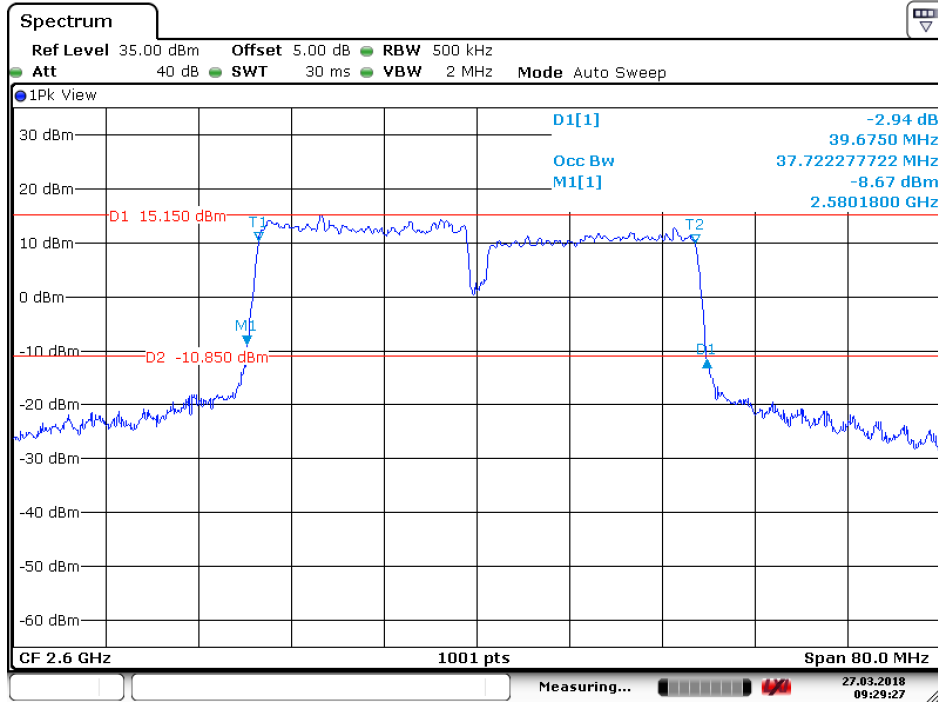


Date: 27.MAR.2018 11:13:44



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

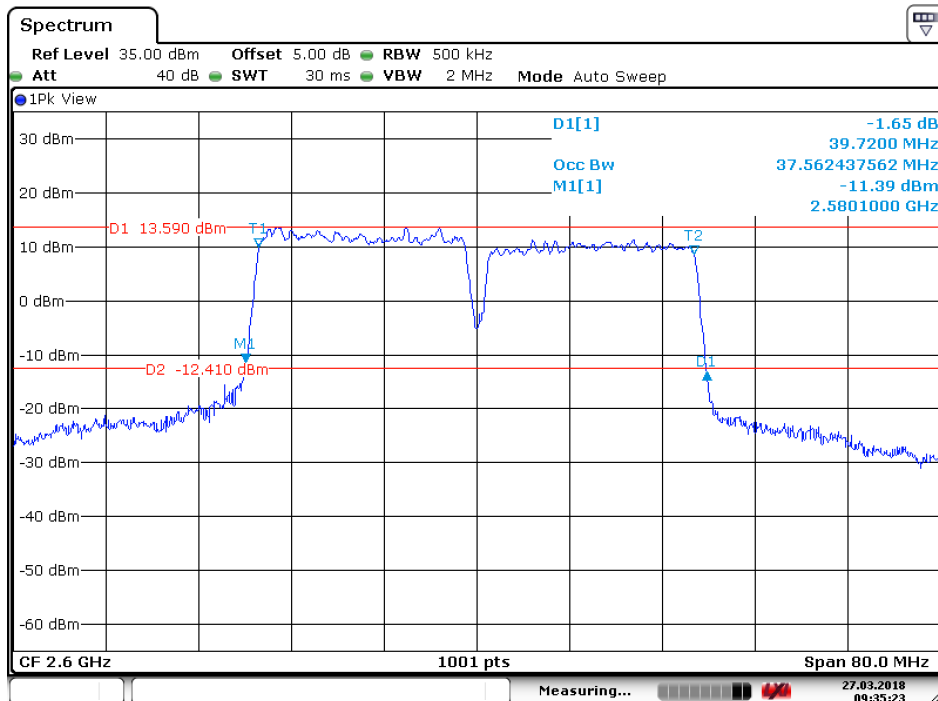
4.1.1.4.1 Test Channel = MCH



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

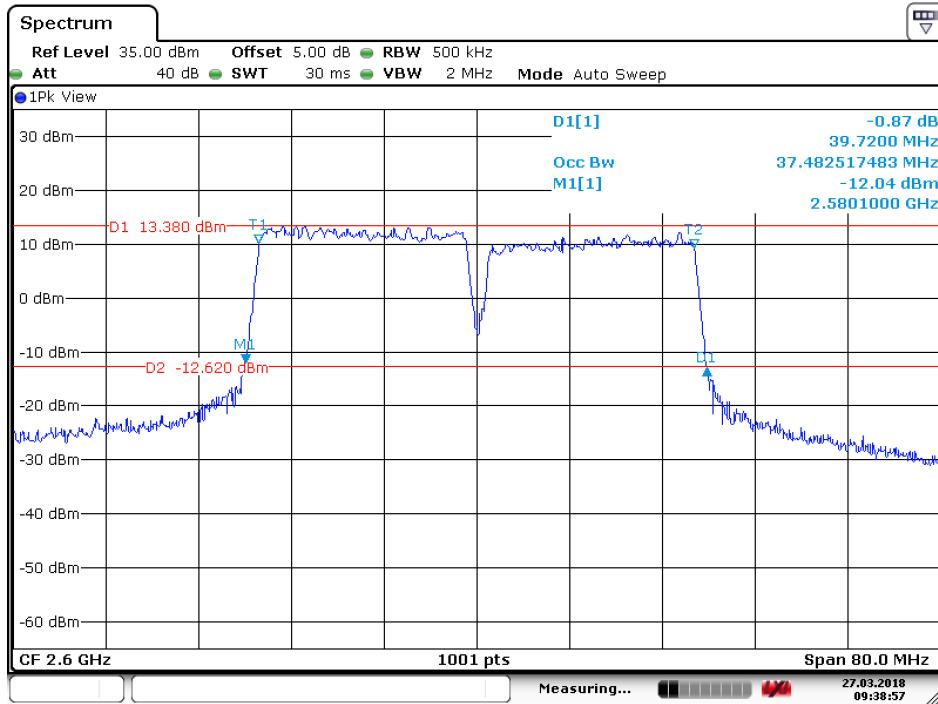


Date: 27.MAR.2018 09:35:24



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

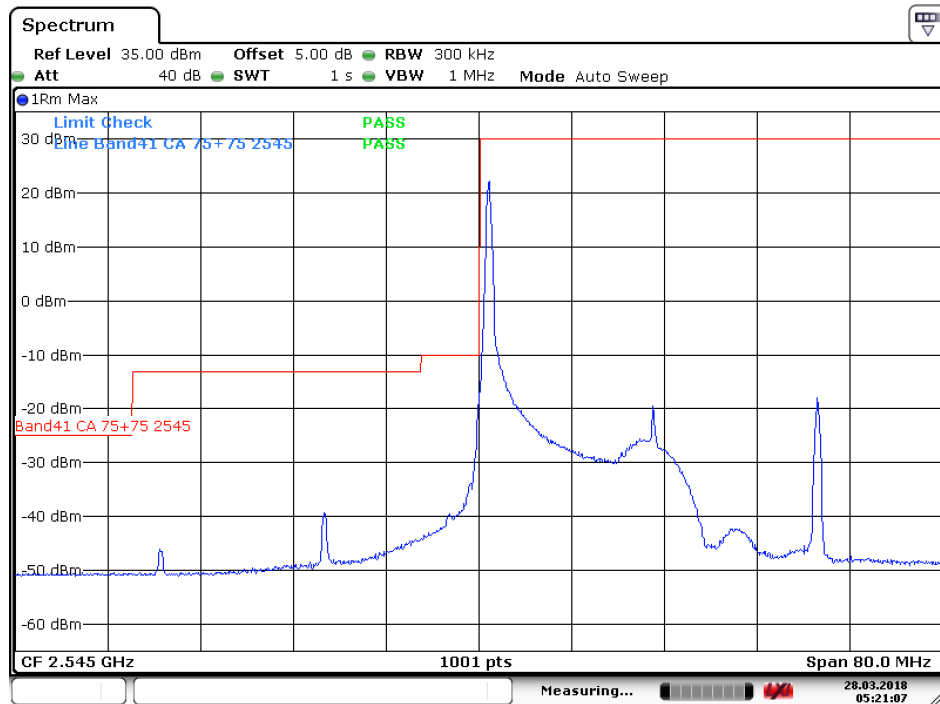
5.1 For LTE

5.1.1 Test Band = LTE Band CA_41C

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

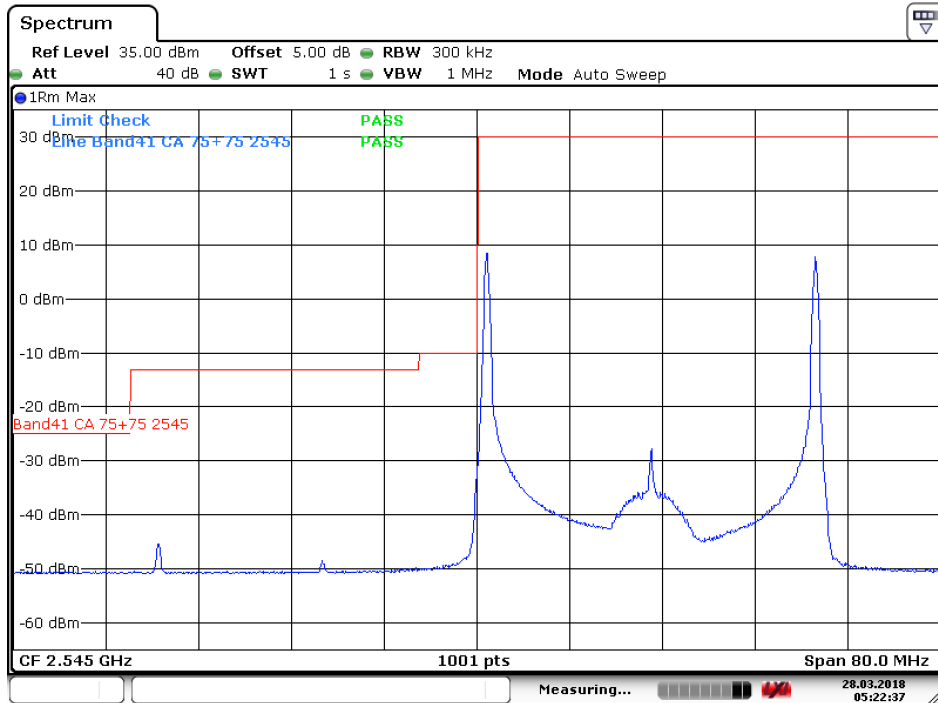
5.1.1.1.1 Test Channel = LCH

5.1.1.1.1 Test RB= P_1@0 S_0@0



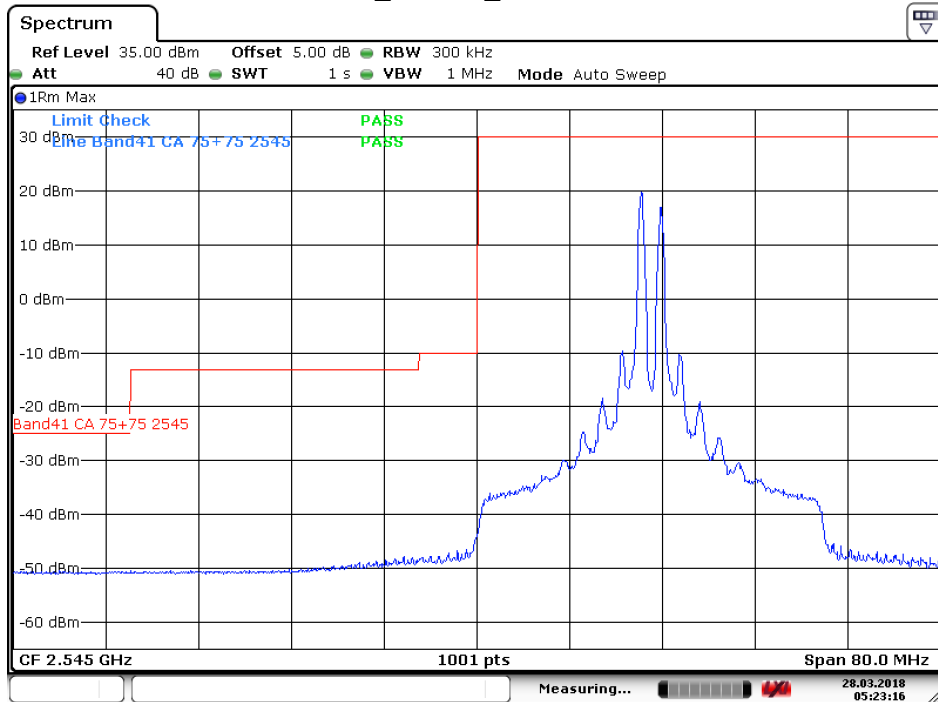
Date: 28.MAR.2018 05:21:07

5.1.1.1.2 Test RB= P_1@0 S_1@74



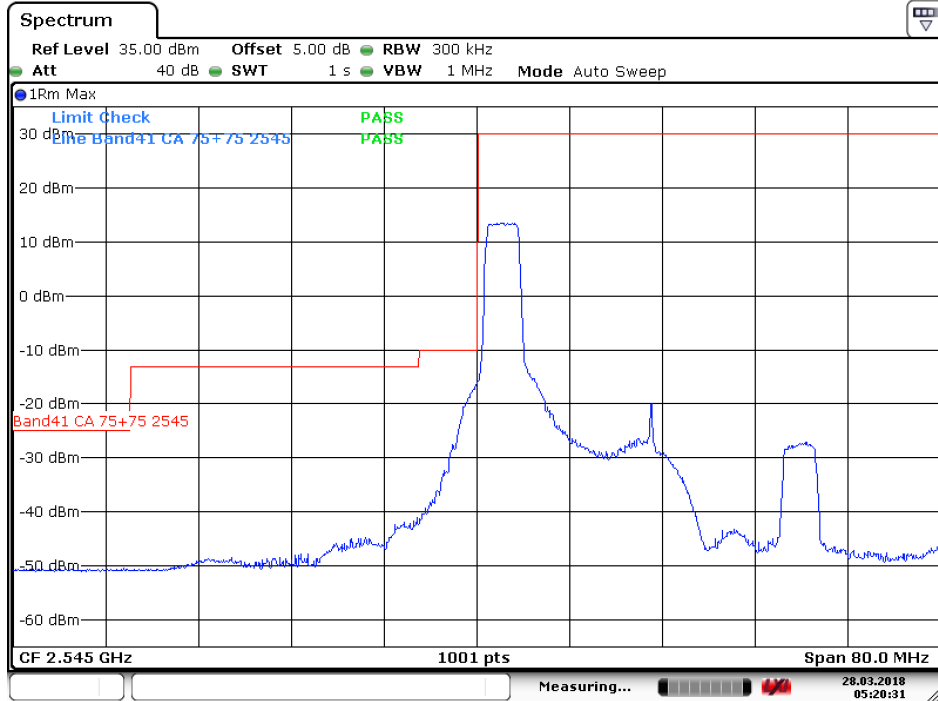
Date: 28.MAR.2018 05:22:38

5.1.1.1.3 Test RB= P_1@74 S_1@0



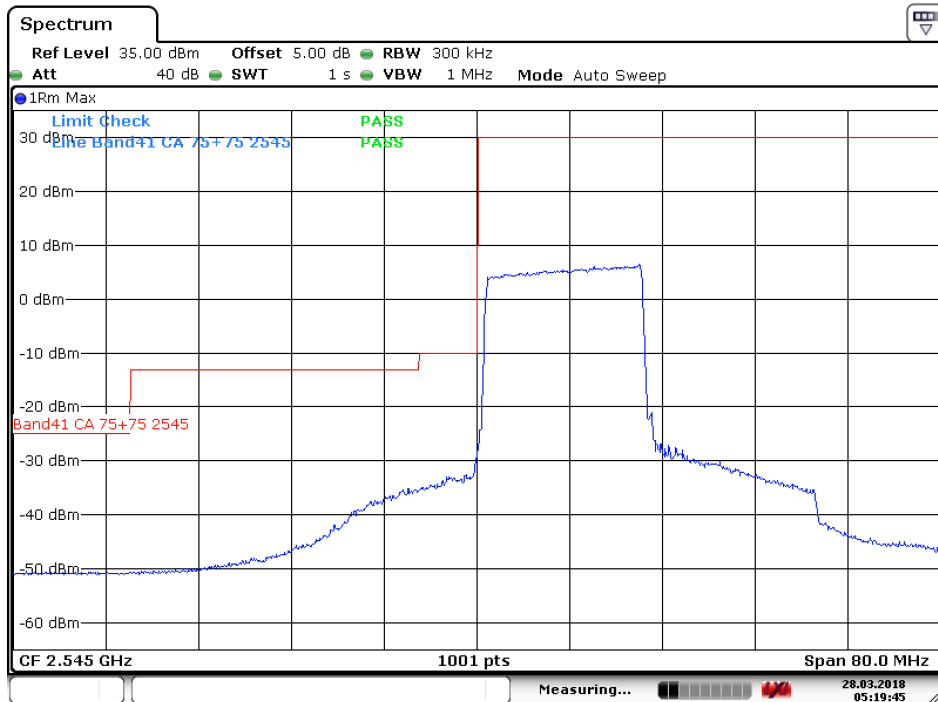
Date: 28.MAR.2018 05:23:17

5.1.1.1.4 Test RB= P_16@0 S_0@0



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

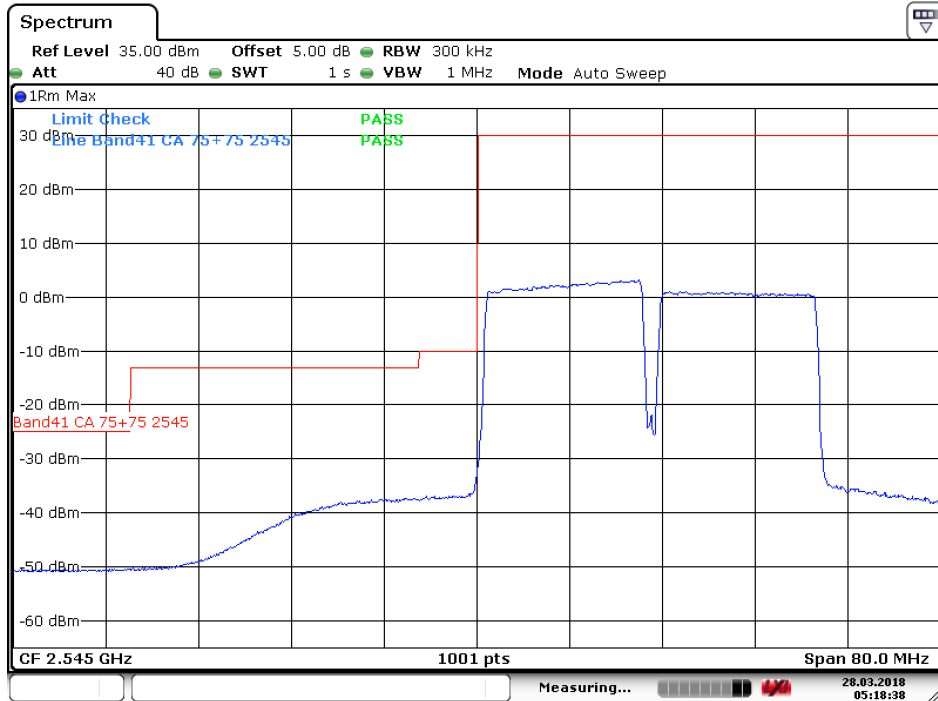
5.1.1.1.5 Test RB= P_75@0 S_0@0



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



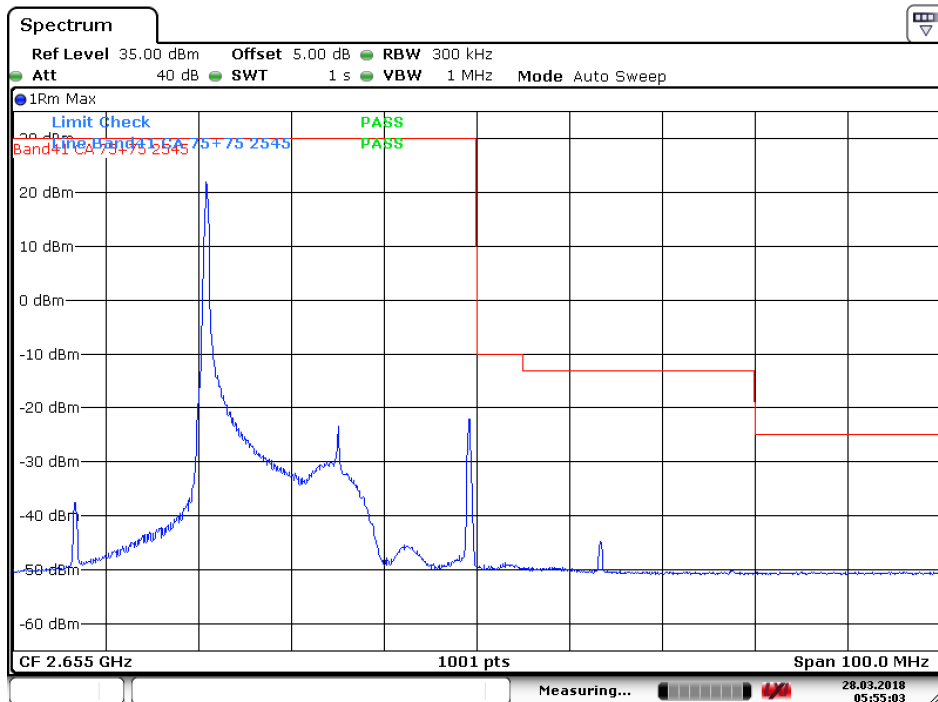
5.1.1.1.1.6 Test RB= P_75@0 S_75@0



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

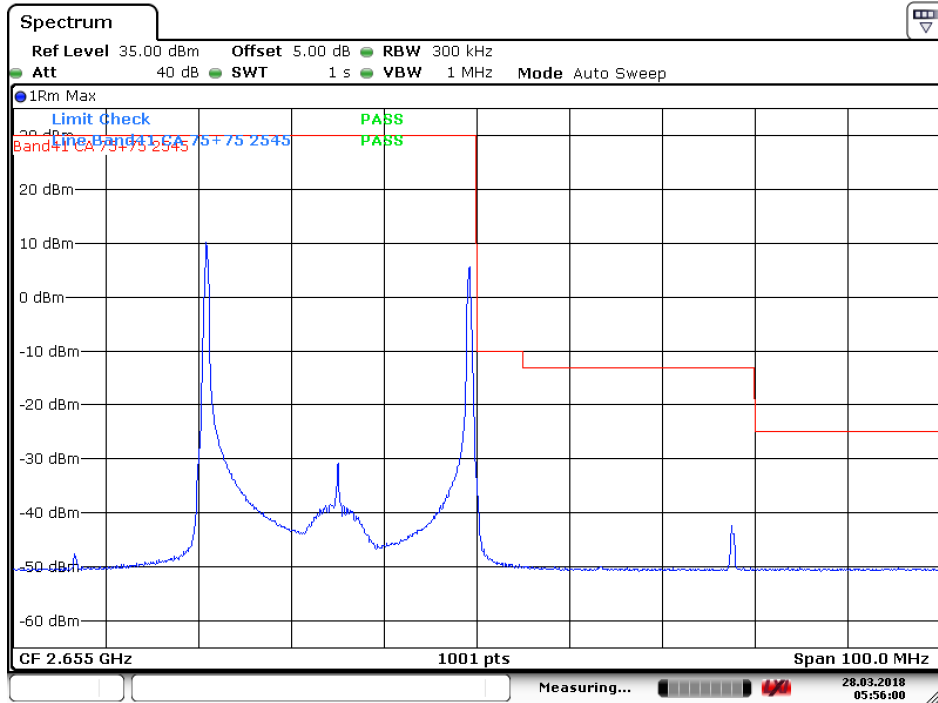
5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB= P_1@0 S_0@0



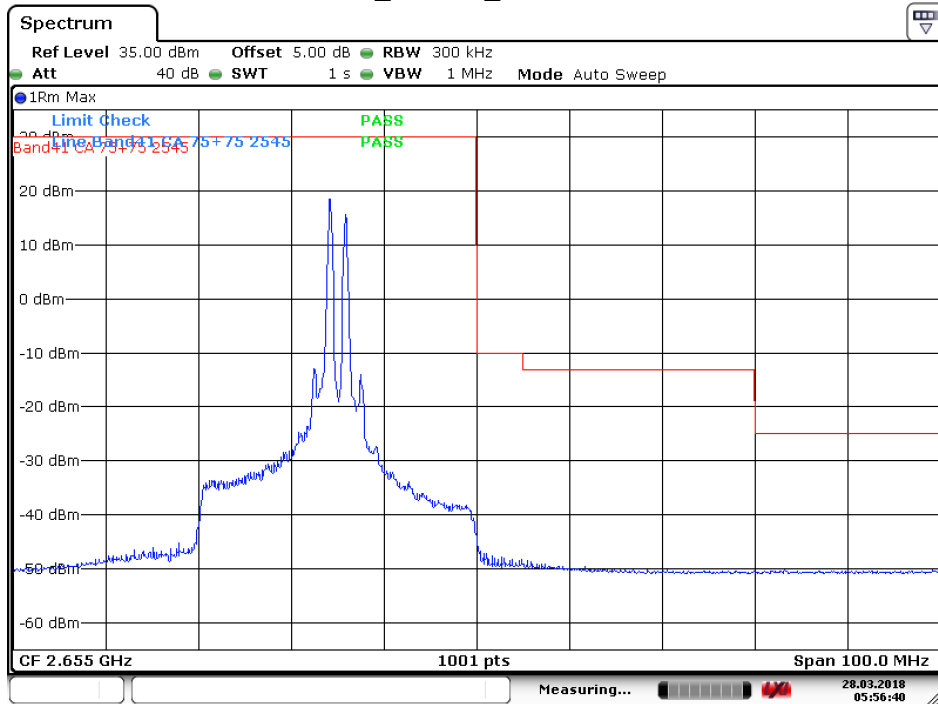
Date: 28.MAR.2018 05:55:04

5.1.1.1.2.2 Test RB= P_1@0 S_1@74



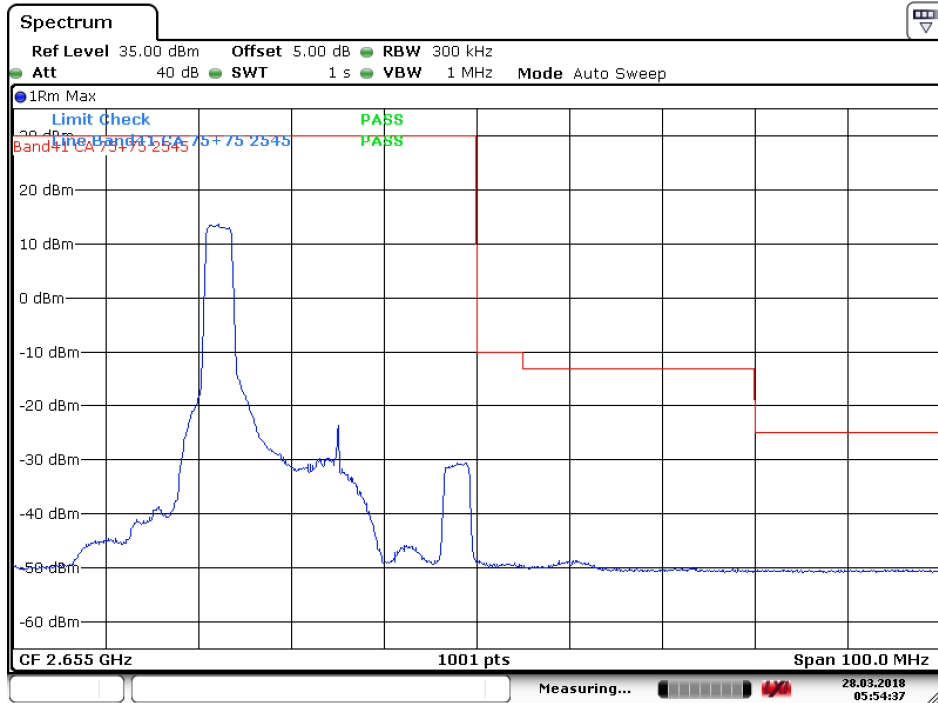
Date: 28.MAR.2018 05:56:00

5.1.1.1.2.3 Test RB= P_1@74 S_1@0



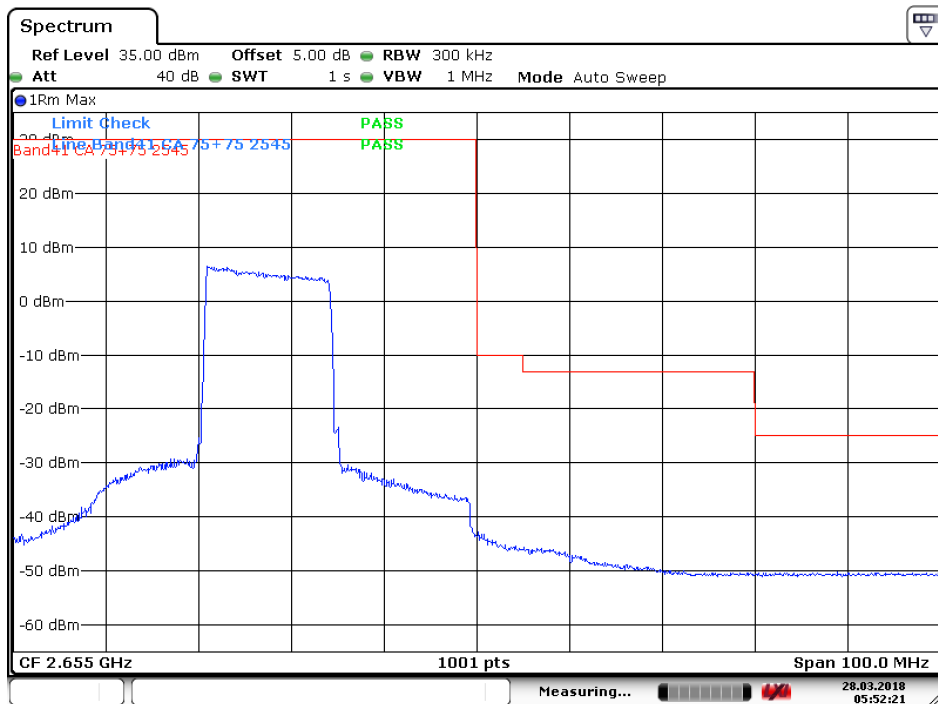
Date: 28.MAR.2018 05:56:40

5.1.1.1.2.4 Test RB= P_16@0 S_0@0



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

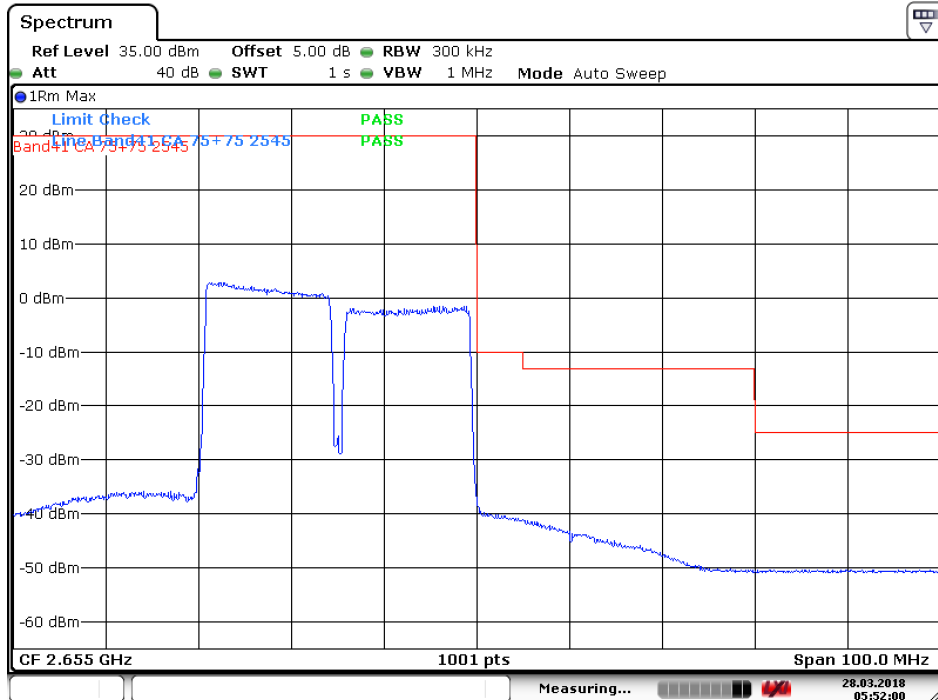
5.1.1.1.2.5 Test RB= P_75@0 S_0@0



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



5.1.1.1.2.6 Test RB= P_75@0 S_75@0

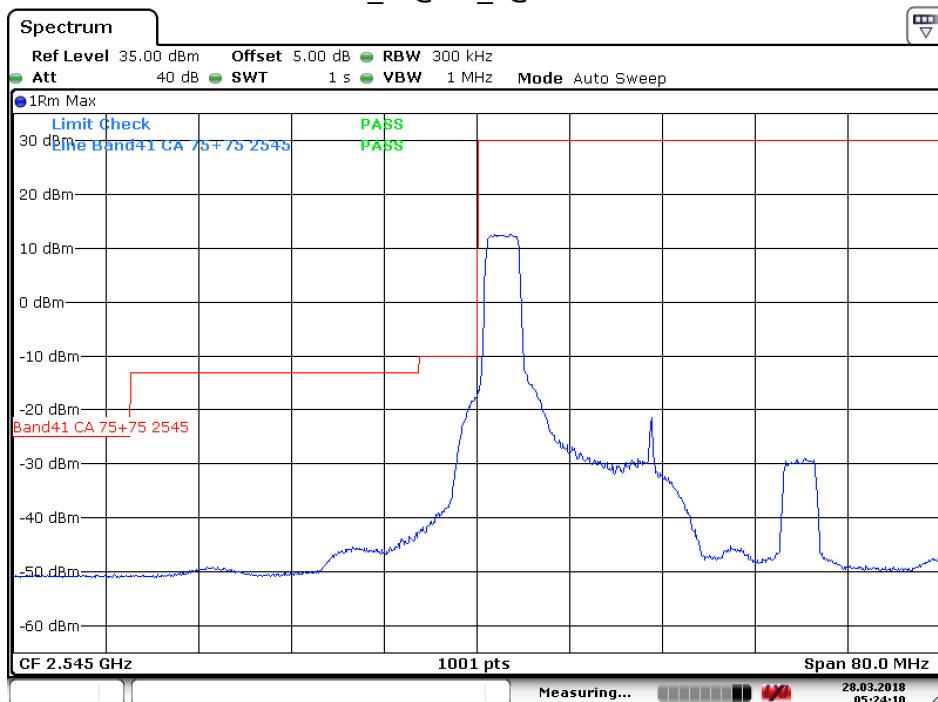


Date: 28.MAR.2018 05:52:00

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

5.1.1.2.1 Test Channel = LCH

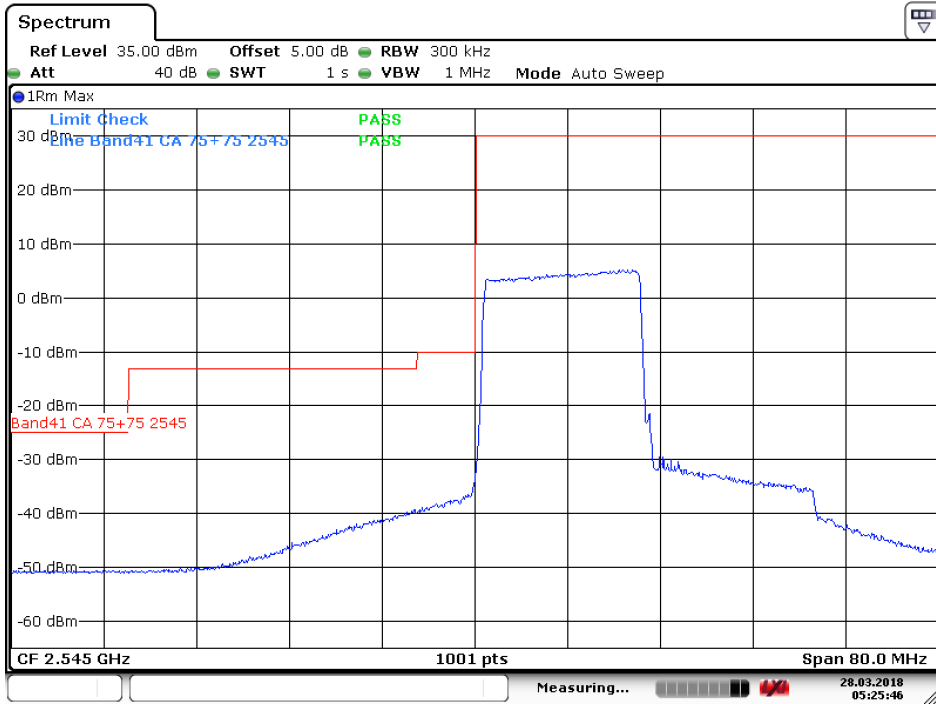
5.1.1.2.1.1 Test RB=P_16@0 S_0@0



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

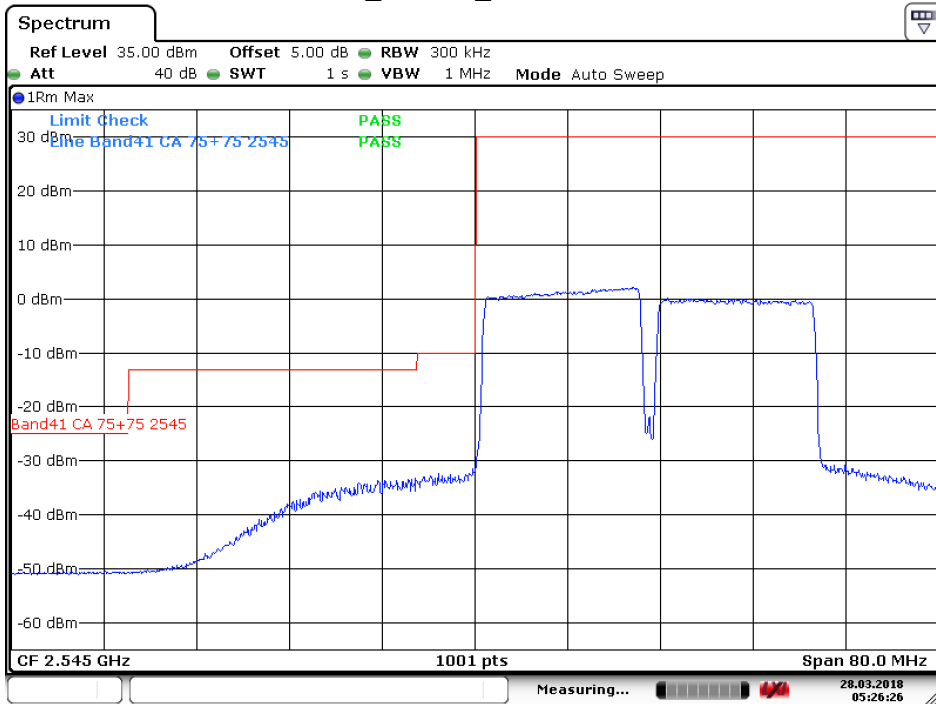


5.1.1.2.1.2 Test RB=P_75@0 S_0@0



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

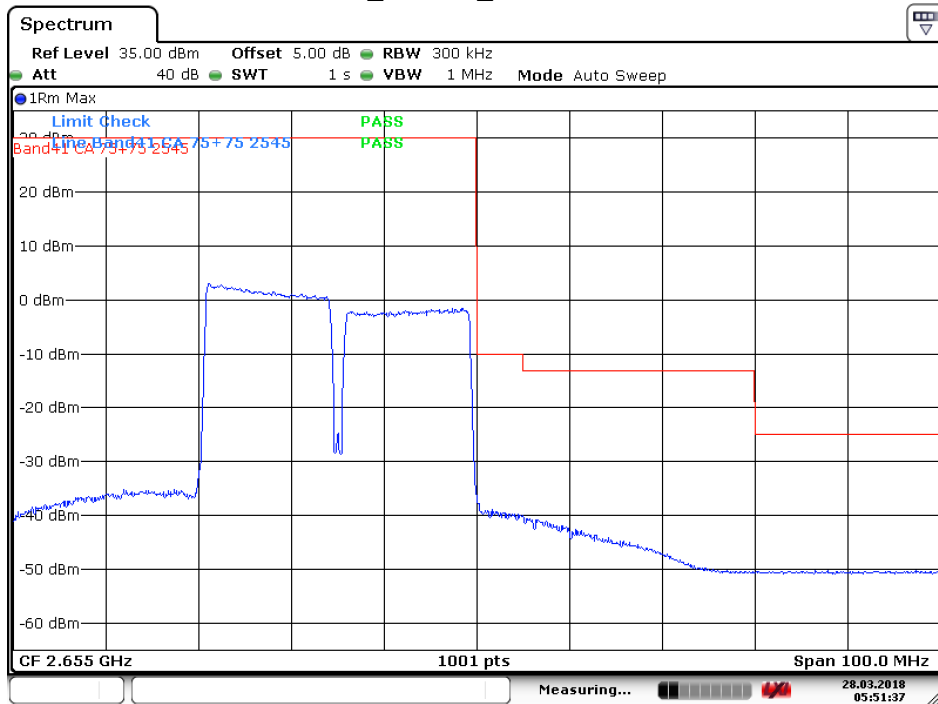
5.1.1.2.1.3 Test RB=P_75@0 S_75@0



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



5.1.1.2.2.3 Test RB=P_75@0 S_75@0

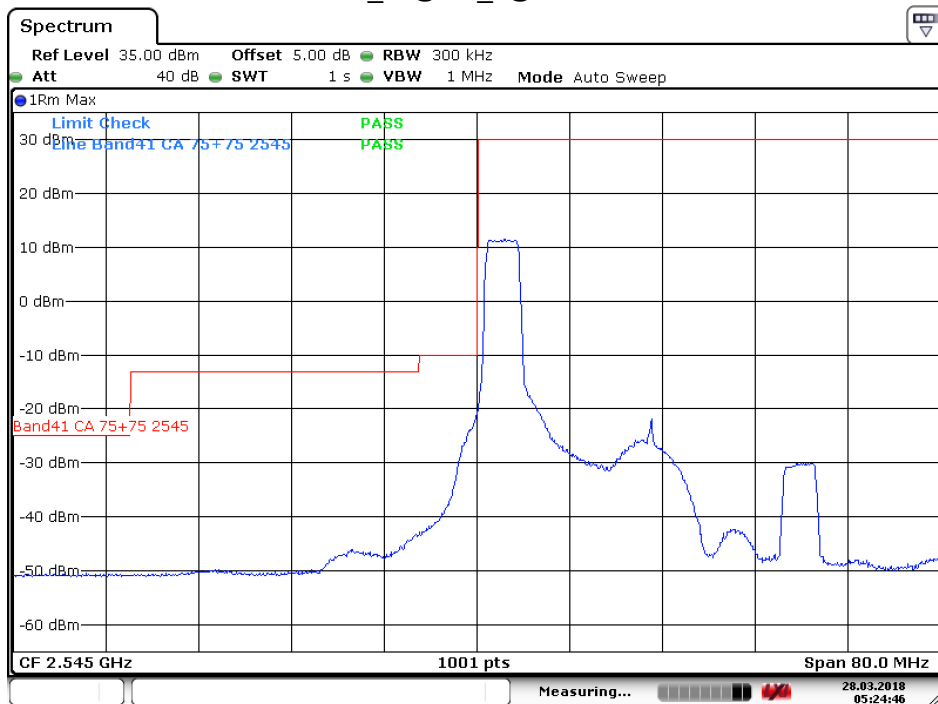


Date: 28.MAR.2018 05:51:38

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

5.1.1.3.1 Test Channel = LCH

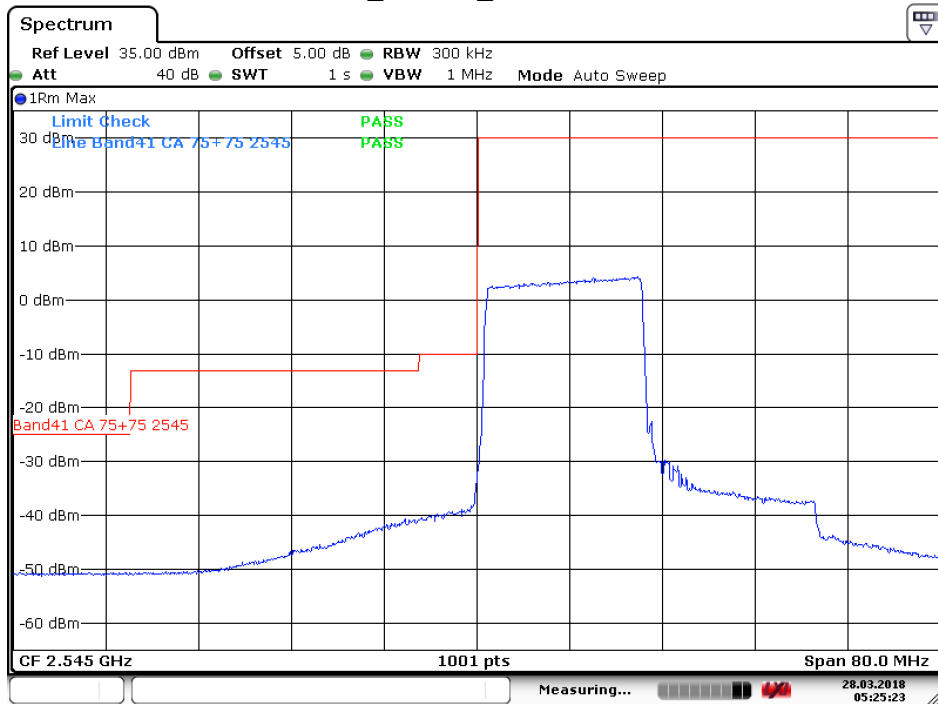
5.1.1.3.1.1 Test RB=P_16@0 S_0@0



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

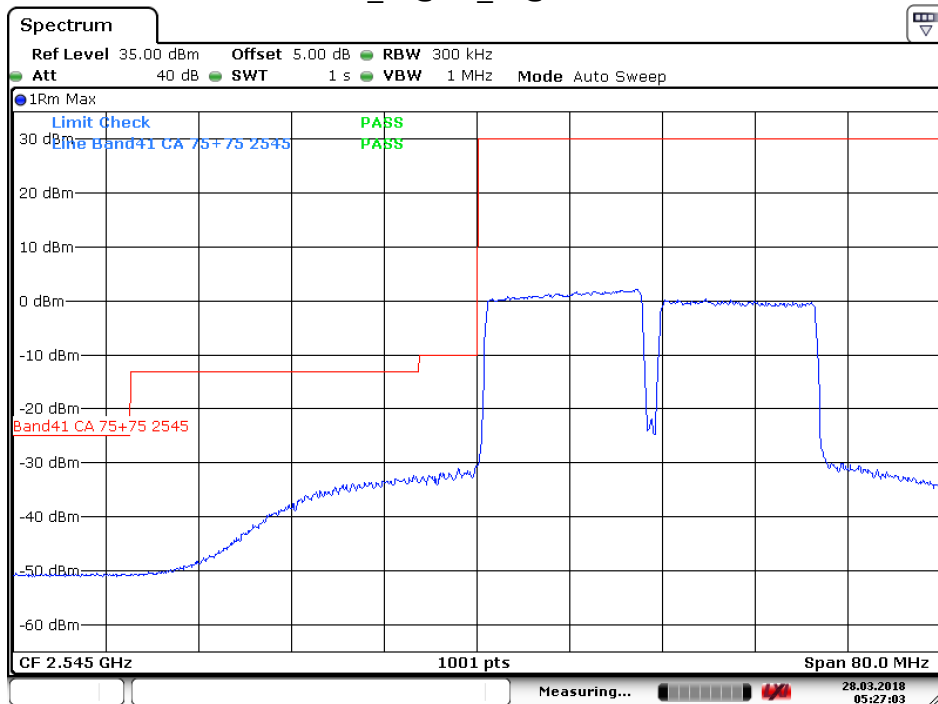


5.1.1.3.1.2 Test RB=P_75@0 S_0@0



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

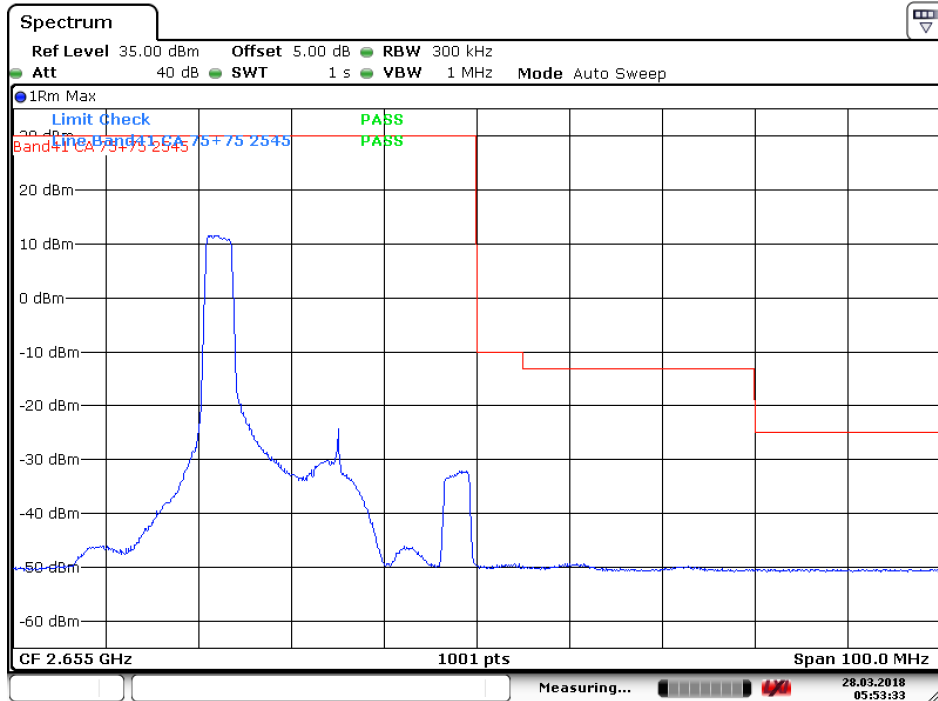
5.1.1.3.1.3 Test RB=P_75@0 S_75@0



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

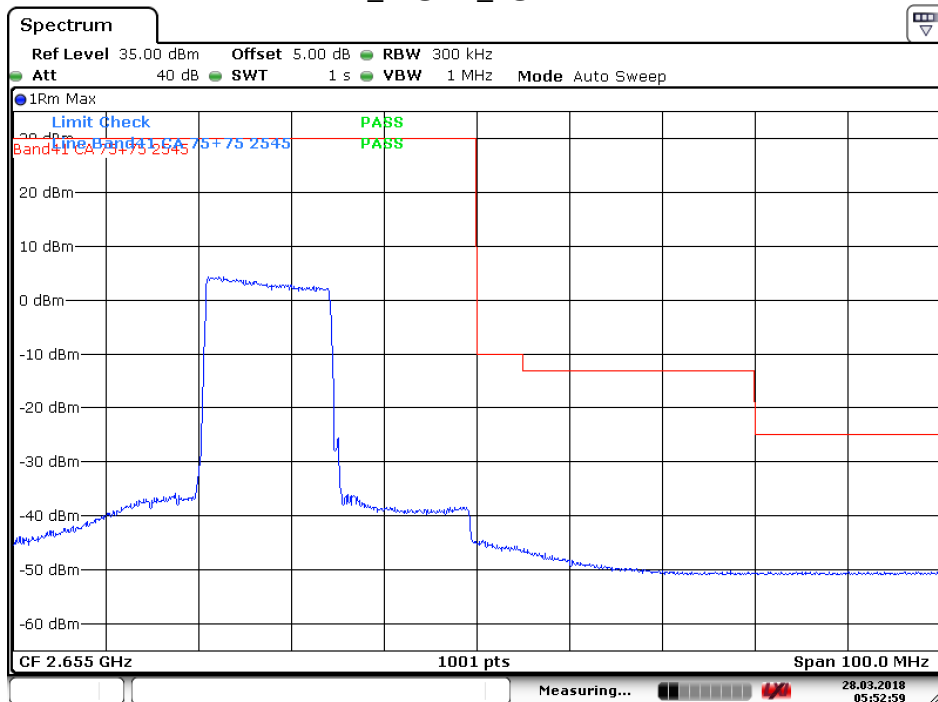
5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=P_16@0 S_0@0



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

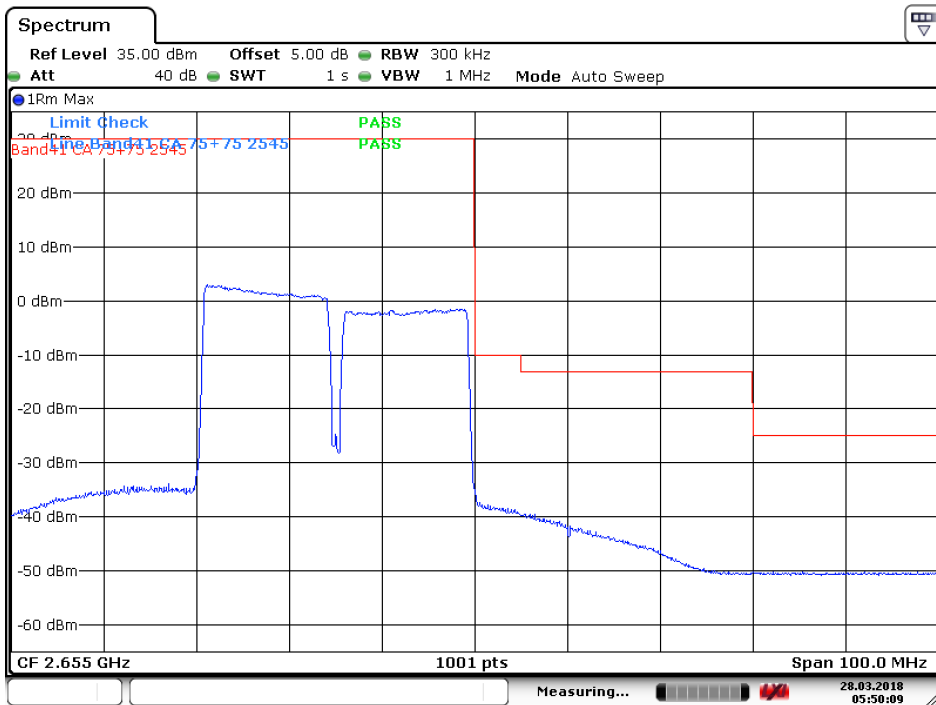
5.1.1.3.2.2 Test RB=P_75@0 S_0@0



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



5.1.1.3.2.3 Test RB=P_75@0 S_75@0

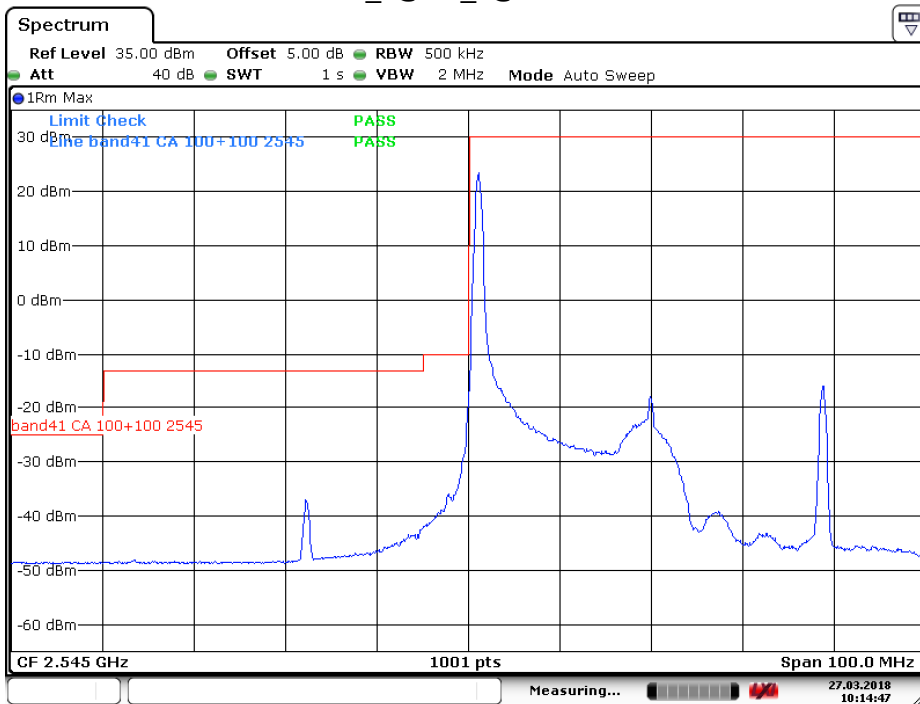


Date: 28.MAR.2018 05:50:09

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

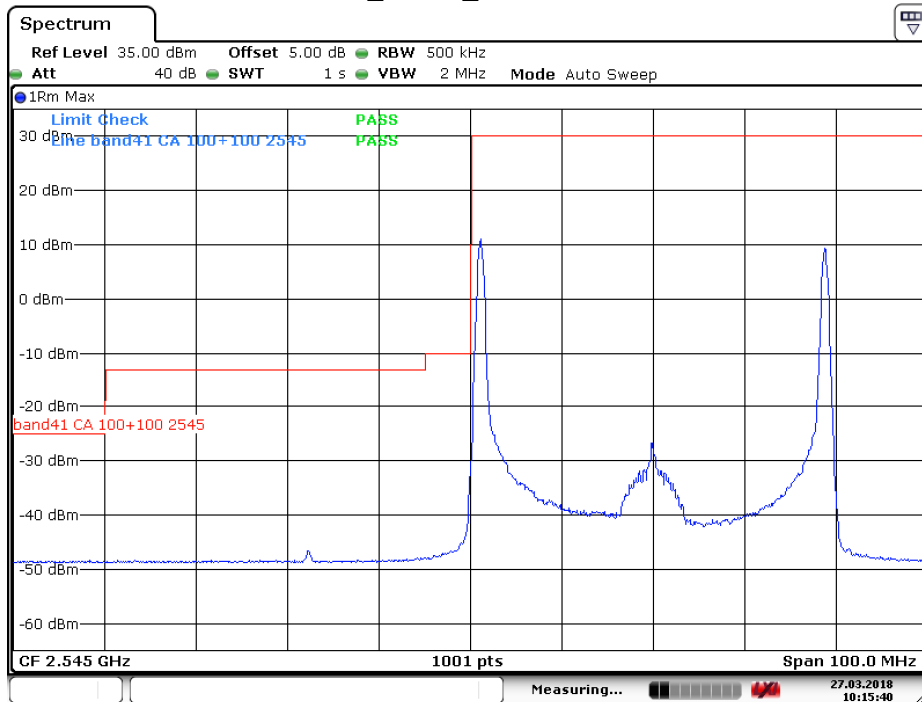


Date: 27.MAR.2018 10:14:47

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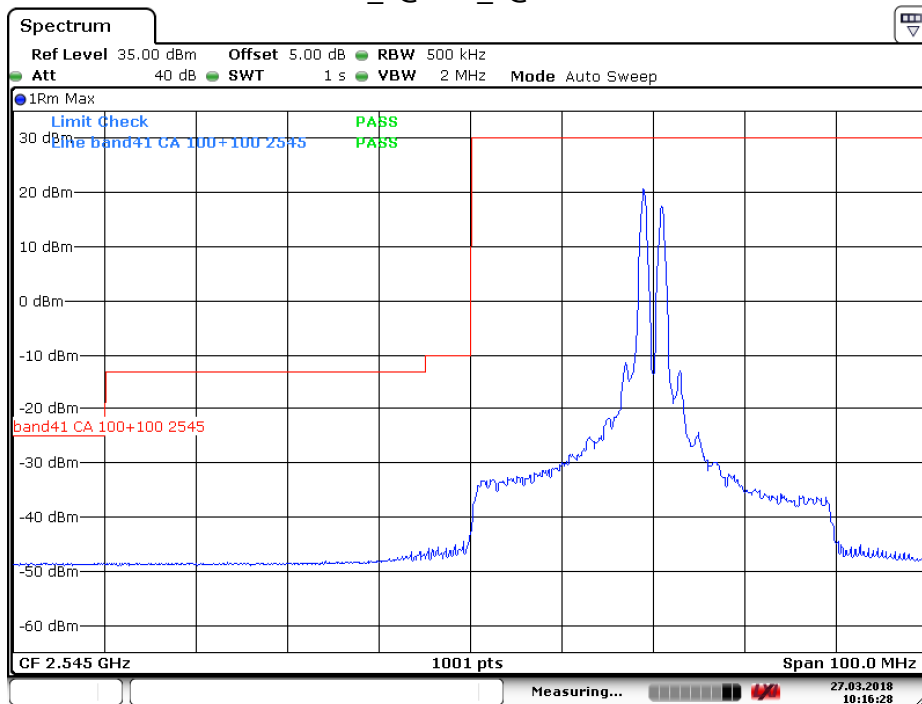


5.1.1.4.1.2 Test RB=P_1@0 S_1@99



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

5.1.1.4.1.3 Test RB=P_1@99 S_1@0

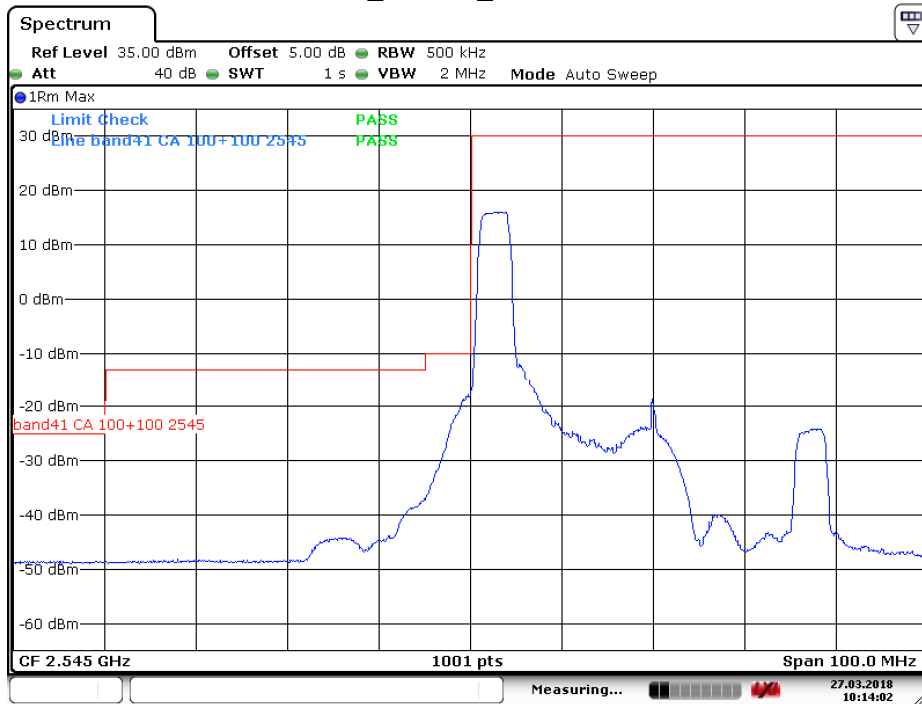


Date: 27.MAR.2018 10:16:28

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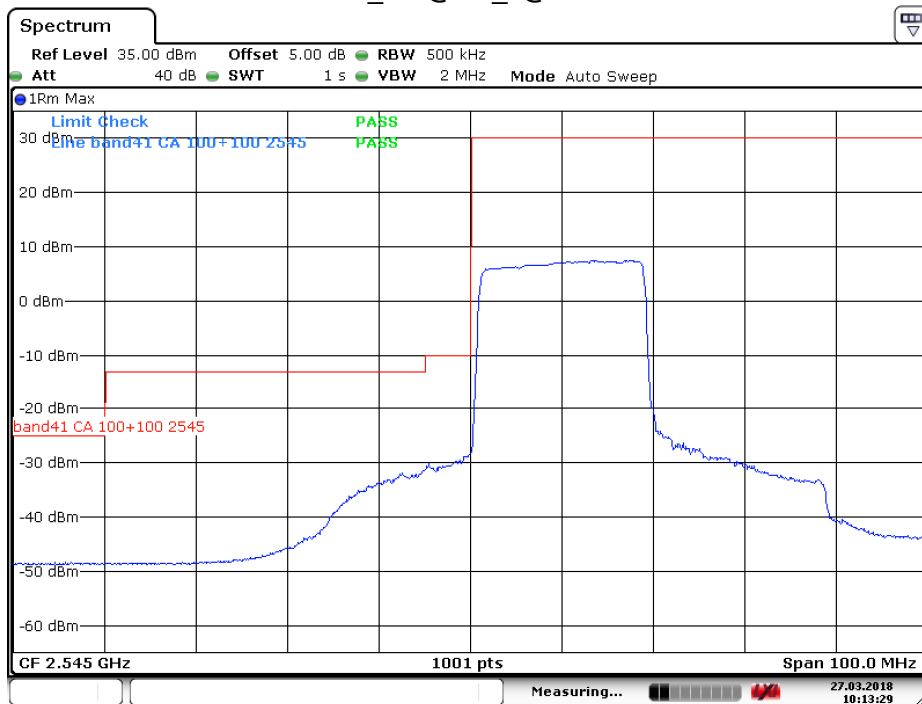


5.1.1.4.1.4 Test RB=P_18@0 S_0@0



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

5.1.1.4.1.5 Test RB=P_100@0 S_0@0

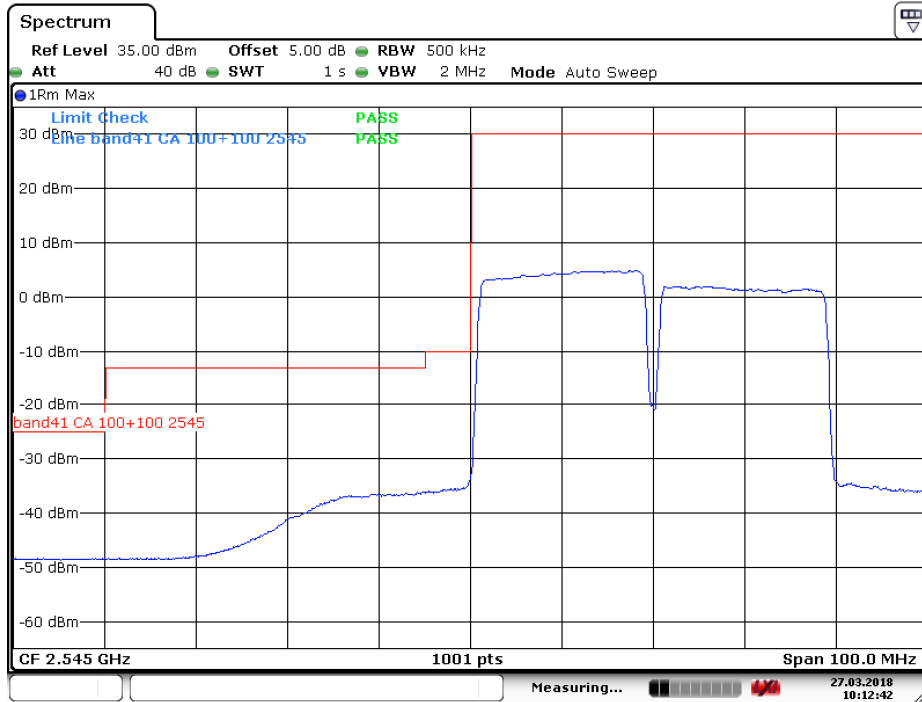


Date: 27.MAR.2018 10:13:29

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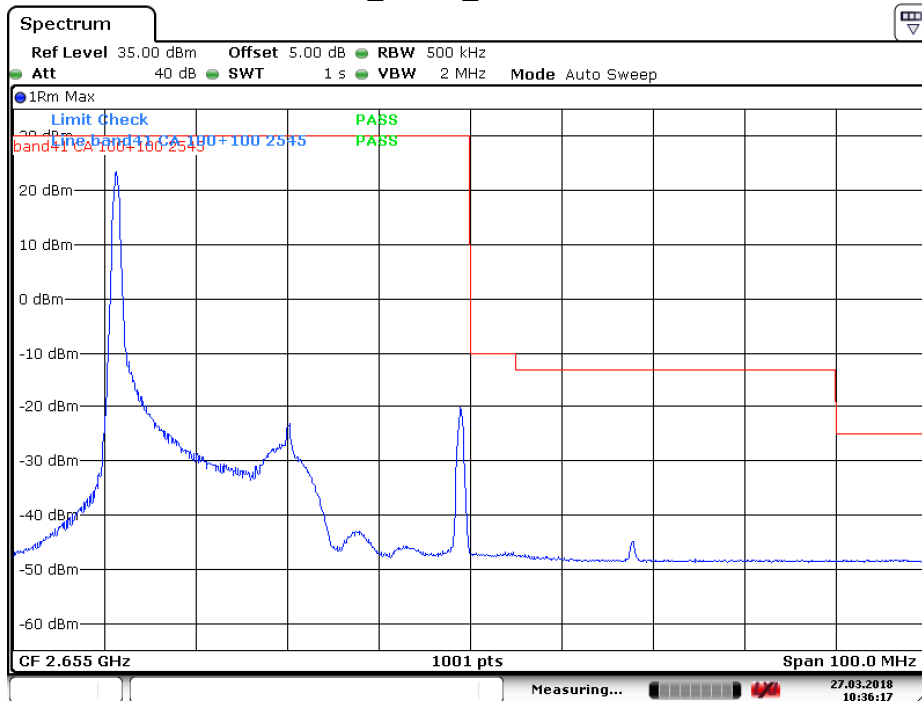
5.1.1.4.1.6 Test RB=P_100@0 S_100@0



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

5.1.1.4.2 Test Channel = HCH

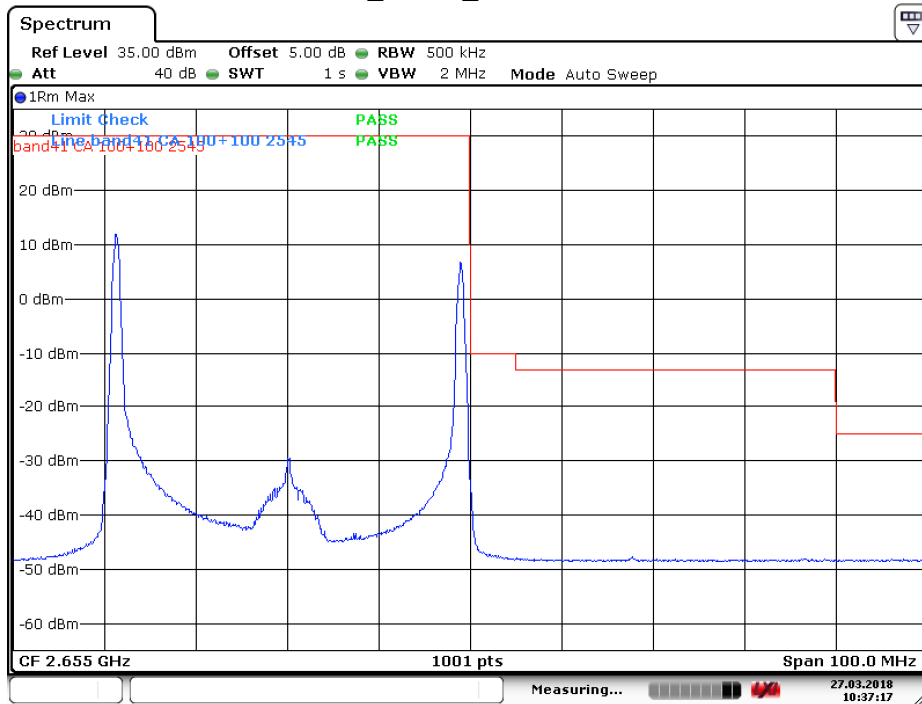
5.1.1.4.2.1 Test RB=P_1@0 S_0@0



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

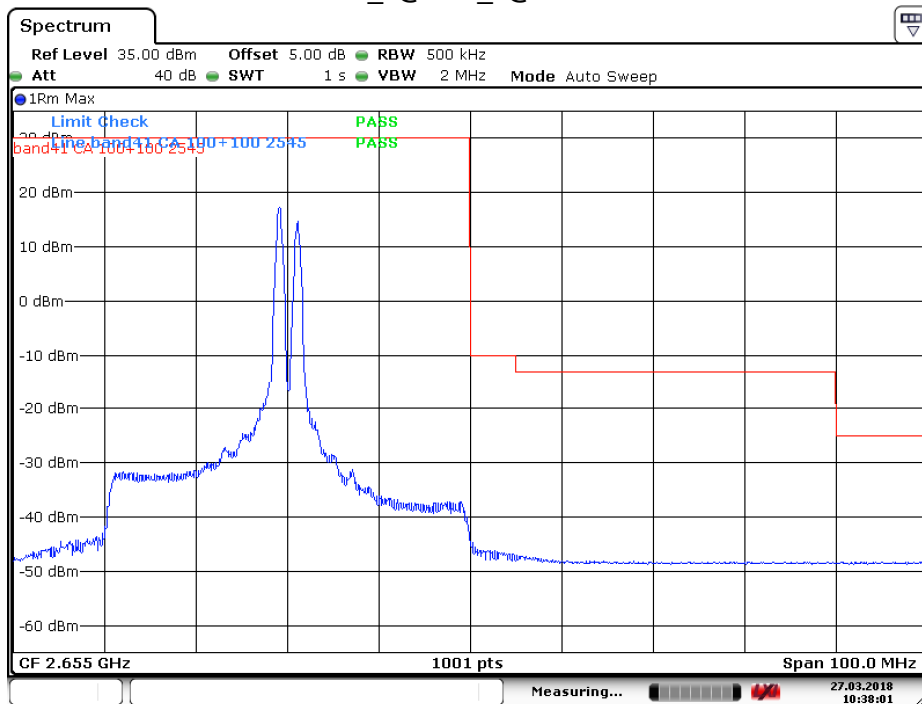


5.1.1.4.2.2 Test RB=P_1@0 S_1@99



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

5.1.1.4.2.3 Test RB=P_1@99 S_1@0

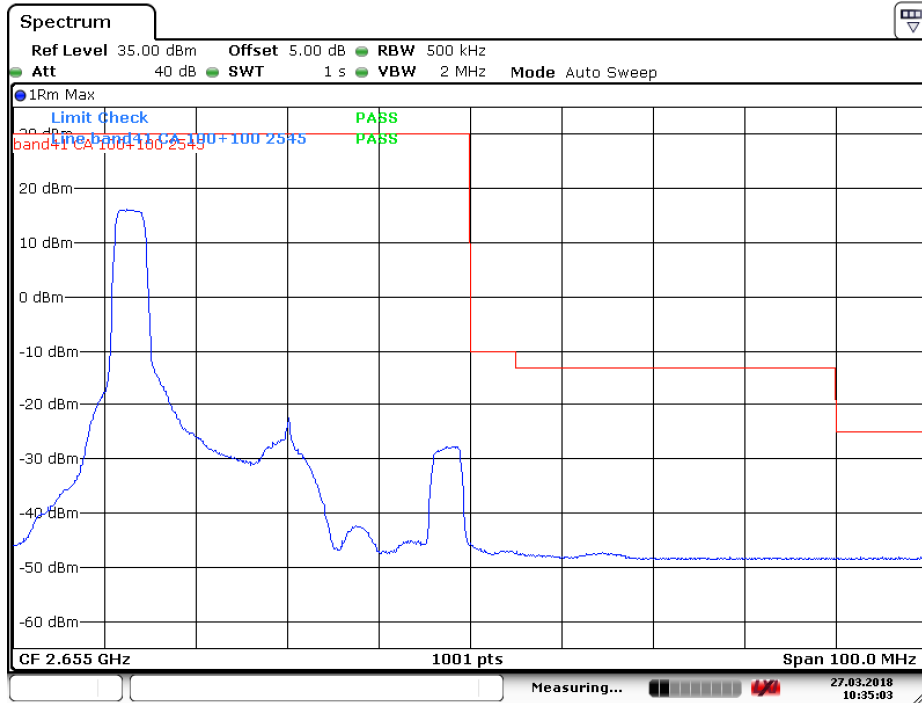


Date: 27.MAR.2018 10:38:01

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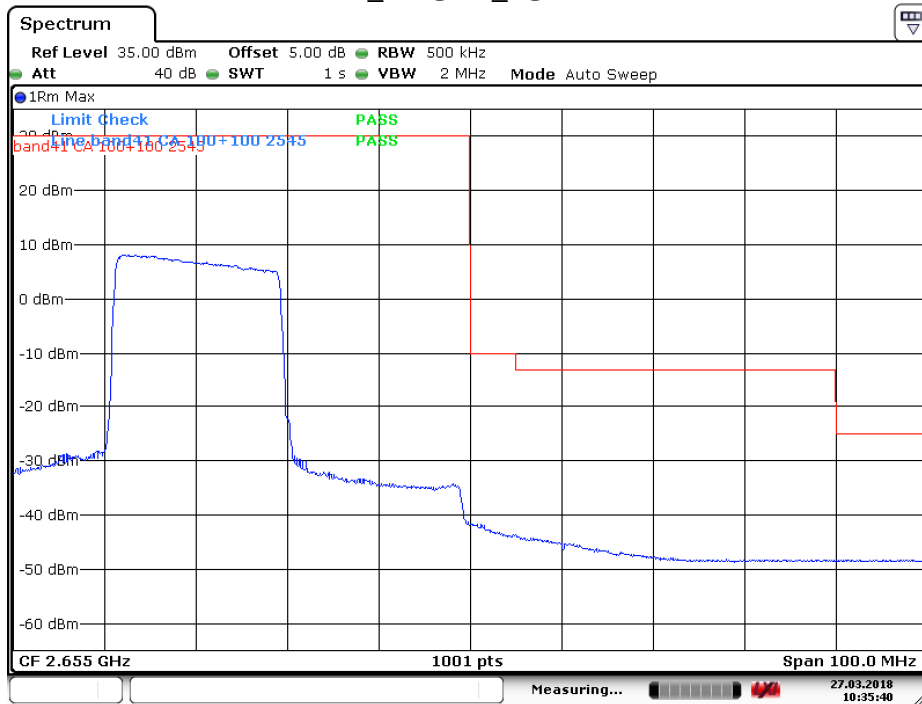


5.1.1.4.2.4 Test RB=P_18@0 S_0@0



Date: 27.MAR.2018 10:35:04

5.1.1.4.2.5 Test RB=P_100@0 S_0@0



Date: 27.MAR.2018 10:35:41