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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
				75RB#0/75RB#0	20.96	21.46	33.00	PASS
				75RB#0/0RB#0	21.99	22.49	33.00	PASS
			LCH	16RB#0/0RB#0	22.89	23.39	33.00	PASS
			LOH	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
	LTE/TM1	75RB+75RB	MCH	75RB#0/75RB#0	20.94	21.44	33.00	PASS
				75RB#0/0RB#0	21.99	22.49	33.00	PASS
CA 41C				16RB#0/0RB#0	22.81	23.31	33.00	PASS
0/0				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
				75RB#0/75RB#0	20.56	21.06	33.00	PASS
				75RB#0/0RB#0	21.72	22.22	33.00	PASS
			НСН	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
				75RB#0/75RB#0	19.92	20.42	33.00	PASS
			LCH	75RB#0/0RB#0	20.94	21.44	33.00	PASS
				16RB#0/0RB#0	21.88	22.38	33.00	PASS
	LTE/TM2	75RB+75RB	MCH	75RB#0/75RB#0	19.88	20.38	33.00	PASS
CA_41C				75RB#0/0RB#0	20.98	21.48	33.00	PASS
				16RB#0/0RB#0	21.85	22.35	33.00	PASS
			НСН	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
				75RB#0/75RB#0	19.68	20.18	33.00	PASS
			LCH	75RB#0/0RB#0	19.84	20.34	33.00	PASS
		TM3 75RB+75RB		16RB#0/0RB#0	20.89	21.39	33.00	PASS
	LTE/TM3		МСН	75RB#0/75RB#0	19.72	20.22	33.00	PASS
CA_41C				75RB#0/0RB#0	19.81	20.31	33.00	PASS
				16RB#0/0RB#0	20.84	21.34	33.00	PASS
			НСН	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
				100RB#0/100RB#0	21.05	21.55	33.00	PASS
				100RB#0/0RB#0	22.17	22.67	33.00	PASS
			LCH	18RB#0/0RB#0	23.46	23.96	33.00	PASS
			LON	1RB#99/1RB#0	22.69	23.19	33.00	PASS
				1RB#0/1RB#99	14.04	14.54	33.00	PASS
		100RB+100RB		1RB#0/0RB#0	23.41	23.91	33.00	PASS
			МСН	100RB#0/100RB#0	21.09	21.59	33.00	PASS
				100RB#0/0RB#0	22.17	22.67	33.00	PASS
CA 41C	LTE/TM1			18RB#0/0RB#0	23.43	23.93	33.00	PASS
0A_410				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
				100RB#0/100RB#0	20.84	21.34	33.00	PASS
				100RB#0/0RB#0	21.80	22.30	33.00	PASS
			HCH	18RB#0/0RB#0	23.01	23.51	33.00	PASS
			11011	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
				100RB#0/100RB#0	20.04	20.54	33.00	PASS
			LCH	100RB#0/0RB#0	21.12	21.62	33.00	PASS
				18RB#0/0RB#0	22.43	22.93	33.00	PASS
	LTE/TM2	M2 100RB+100RB	MCH	100RB#0/100RB#0	20.06	20.56	33.00	PASS
CA_41C				100RB#0/0RB#0	21.16	21.66	33.00	PASS
				18RB#0/0RB#0	22.44	22.94	33.00	PASS
			НСН	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
				100RB#0/100RB#0	19.95	20.45	33.00	PASS
			LCH	100RB#0/0RB#0	20.03	20.53	33.00	PASS
				18RB#0/0RB#0	21.26	21.76	33.00	PASS
	LTE/TM3	M3 100RB+100RB	MCH	100RB#0/100RB#0	19.94	20.44	33.00	PASS
CA_41C				100RB#0/0RB#0	20.03	20.53	33.00	PASS
				18RB#0/0RB#0	21.38	21.88	33.00	PASS
			НСН	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:

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

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



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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
	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
CA 41C	TM1/75RB+75RB	P_75@0	S_75@0	MCH	6.87	13	PASS
UA_410	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

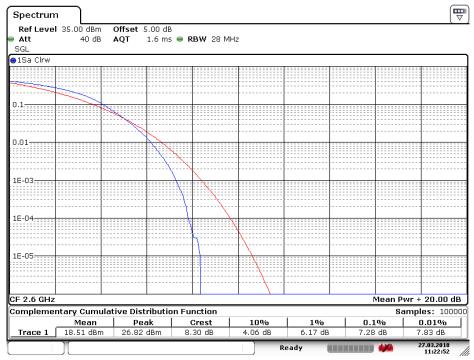
Part II - Test Plots

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

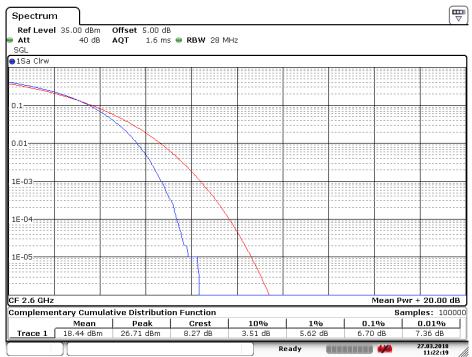


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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=75RB+75RB

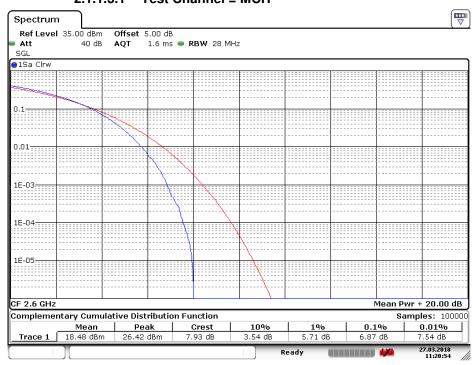
2.1.1.2.1 Test Channel = MCH



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

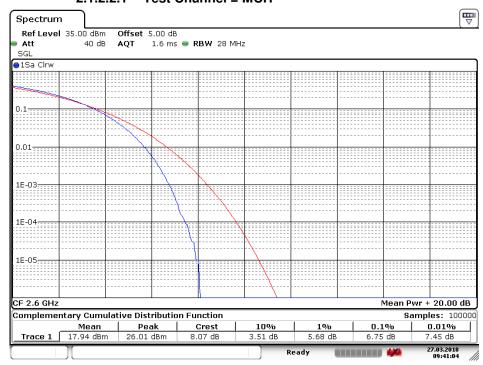
2.1.2.1.1 Test Channel = MCH



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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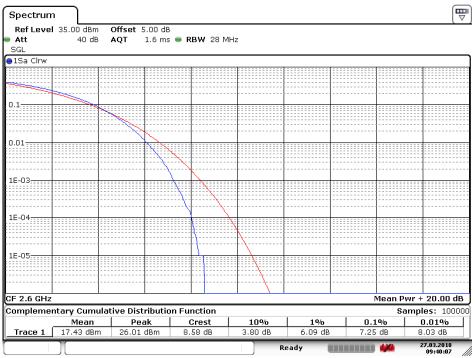


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2.1.2.3 Test Mode = LTE/TM3.Bandwidth=100RB+100RB

2.1.2.3.1 Test Channel = MCH



Date: 27.MAR.2018 09:40:08



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3 Modulation Characteristics

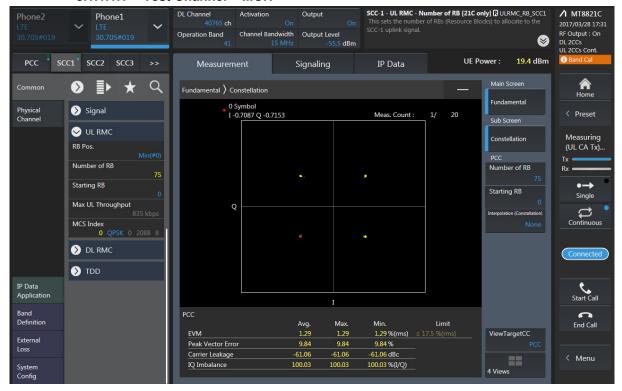
Part I - Test Plots

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



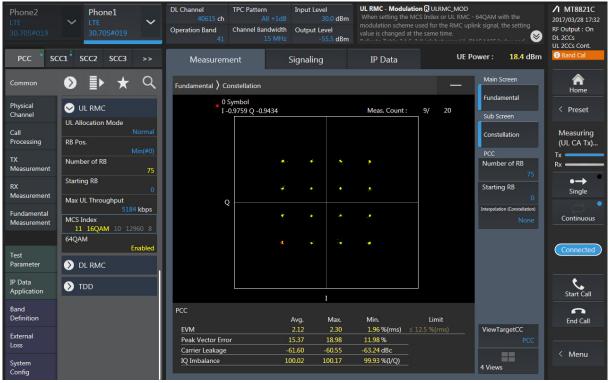


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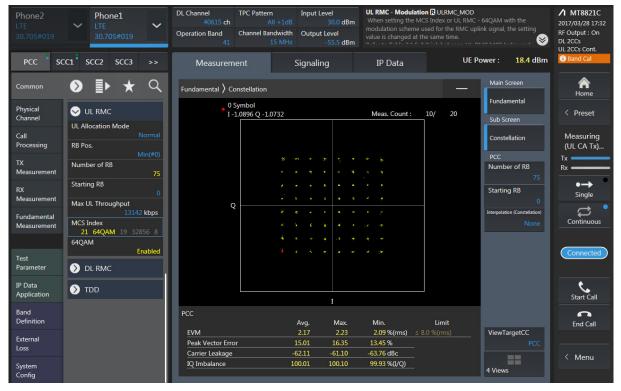
3.1.1.2 Test Mode = LTE /TM2 75RB+75RB

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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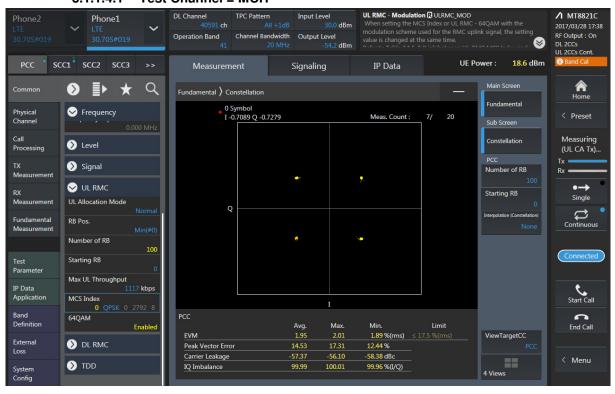


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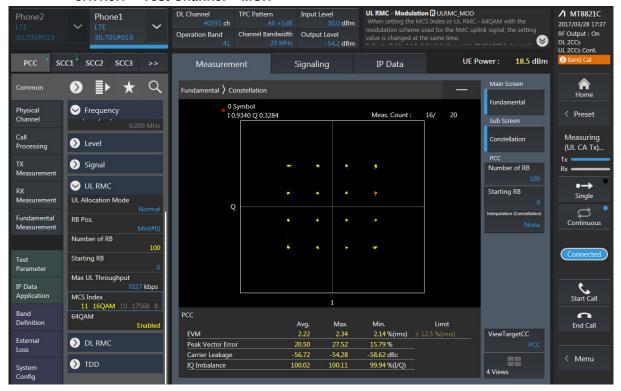
3.1.1.4 Test Mode = LTE /TM1 100RB+100RB

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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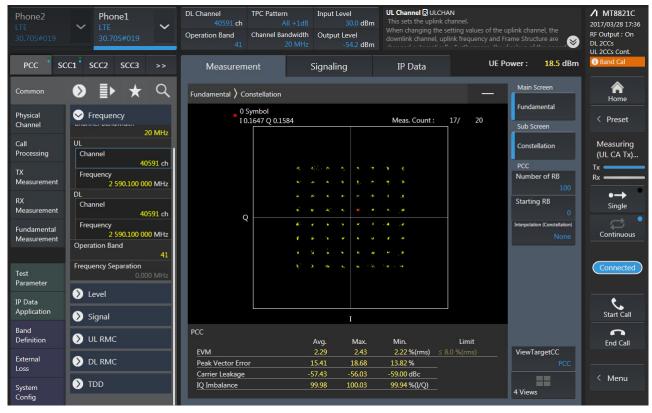


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3.1.1.6 Test Mode = LTE /TM3 100RB+100RB

3.1.1.6.1 Test Channel = MCH





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4 Bandwidth

Part I - Test Results

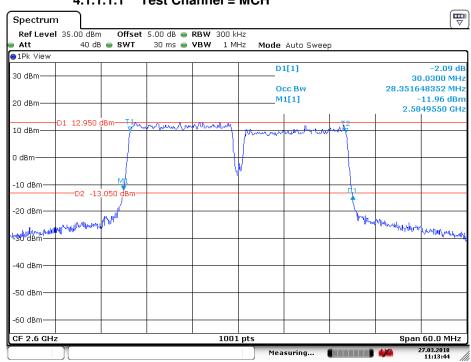
Test Band	Test Mode	PCC RB	SCC RB	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
	TM1/75RB+75RB	P_75@0	S_75@0	MCH	28.35	30.03	PASS
	TM1/75RB+75RB	P_75@0	S_75@0	MCH	28.35	30.09	PASS
	TM1/75RB+75RB	P_75@0	S_75@0	MCH	28.35	30.03	PASS
CA_41C	TM1/100RB+100RB	P_100@0	S_100@0	MCH	37.72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

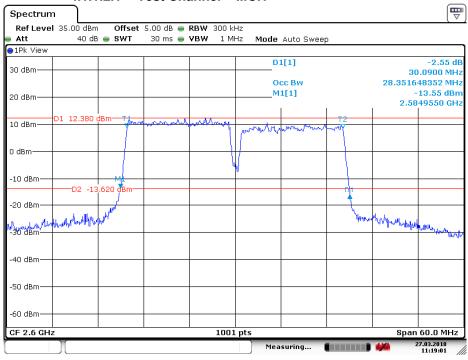


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4.1.1.2 Test Mode = LTE/TM2 75RB+75RB

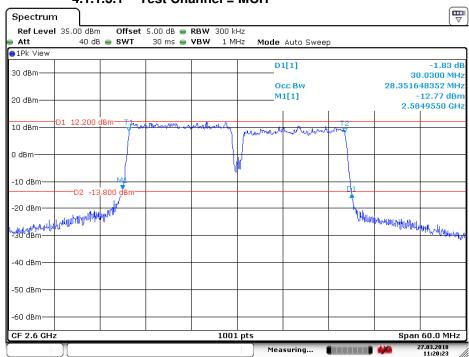
4.1.1.2.1 Test Channel = MCH



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



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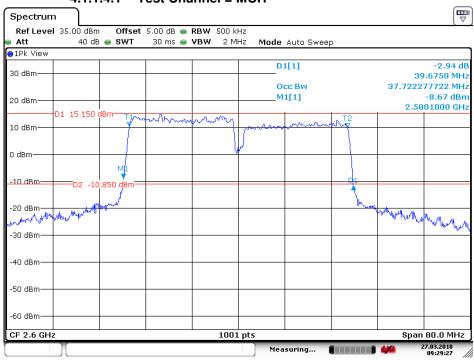


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4.1.1.4 Test Mode = LTE/TM1 100RB+100RB

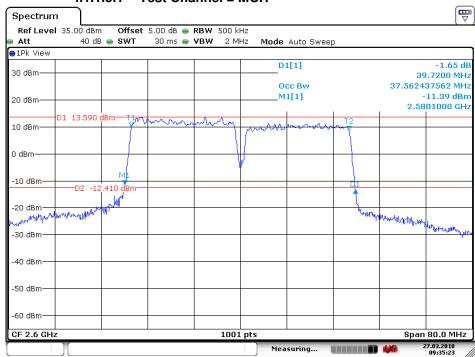




Date: 27.MAR.2018 09:29:27

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

4.1.1.5.1 Test Channel = MCH



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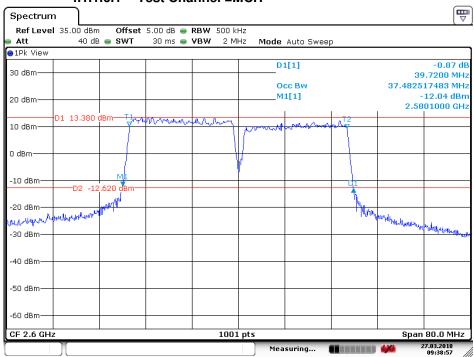


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4.1.1.6 Test Mode = LTE/TM3 100RB+100RB

4.1.1.6.1 Test Channel = MCH



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



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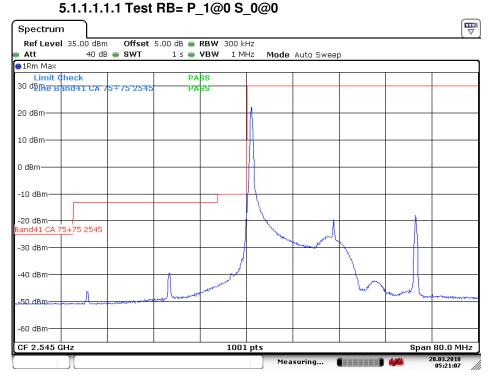
5 Band Edges Compliance

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



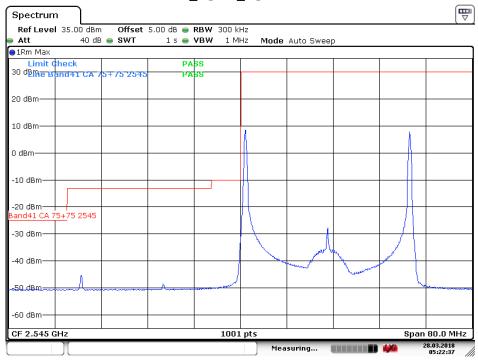
Date: 28.MAR.2018 05:21:07



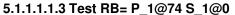
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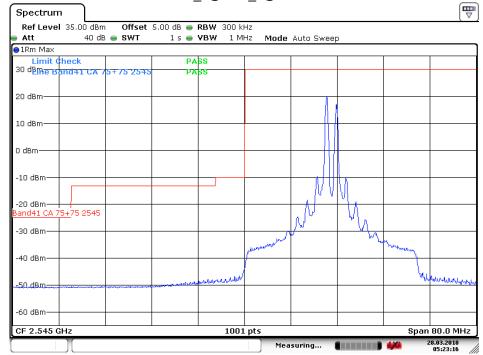
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5.1.1.1.1.2 Test RB= P_1@0 S_1@74



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





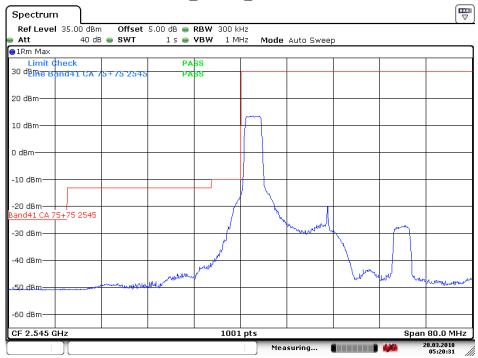
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Report No.: SZEM180300194501

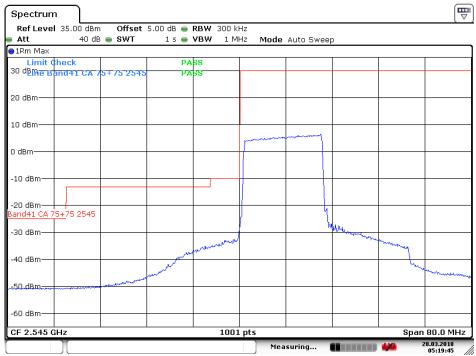
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5.1.1.1.1.4 Test RB= P_16@0 S_0@0



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

5.1.1.1.5 Test RB= P_75@0 S_0@0



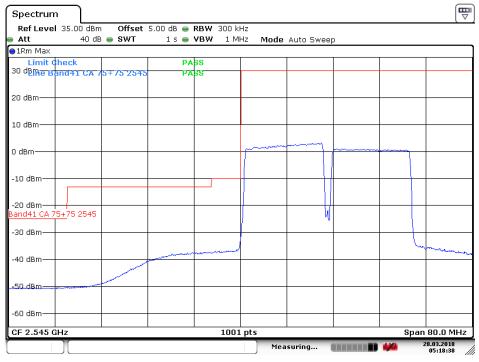
Date: 28.MAR.2018 05:19:45



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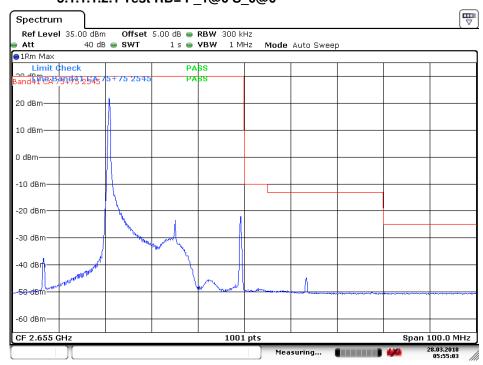
5.1.1.1.1.6 Test RB= P 75@0 S 75@0



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

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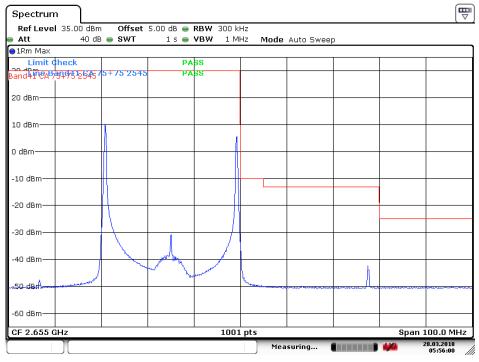


Report No.: SZEM180300194501

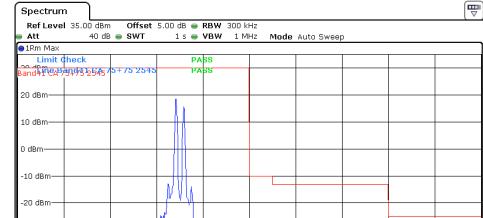
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5.1.1.1.2.2 Test RB= P 1@0 S 1@74

5.1.1.1.2.3 Test RB= P 1@74 S 1@0



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



1001 pts

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

-30 dBm

-40 dBm

50 d8π1⁻⁻⁻⁻⁻

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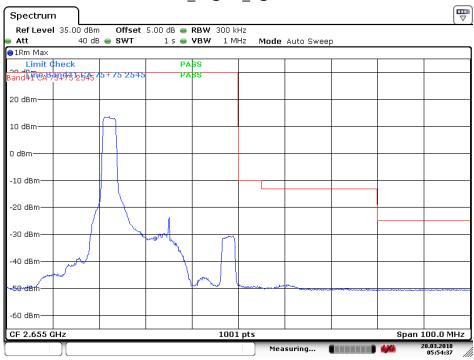
Span 100.0 MHz 28.03.2018 05:56:40



Report No.: SZEM180300194501

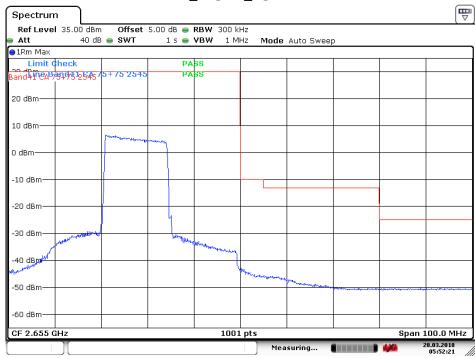
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5.1.1.1.2.4 Test RB= P_16@0 S_0@0



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

5.1.1.1.2.5 Test RB= P_75@0 S_0@0



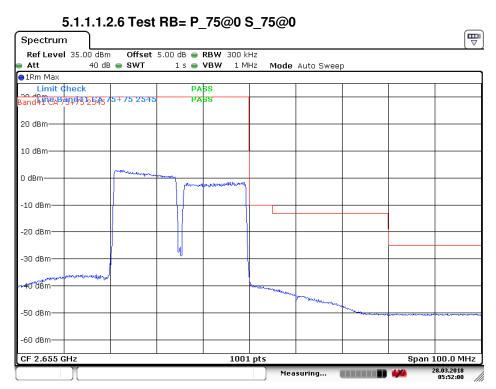
Date: 28.MAR.2018 05:52:21

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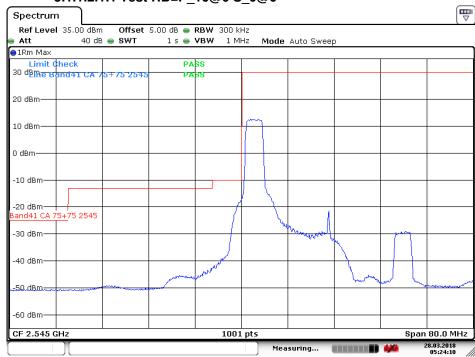


Date: 28.MAR.2018 05:52:00

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

5.1.1.2.1 Test Channel = LCH





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

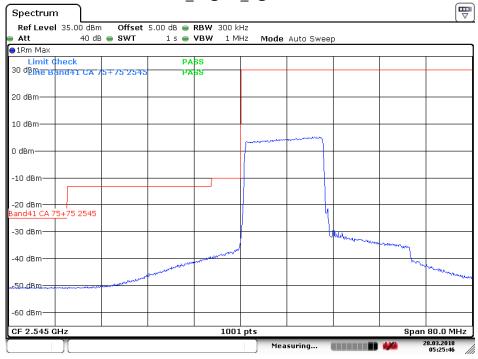
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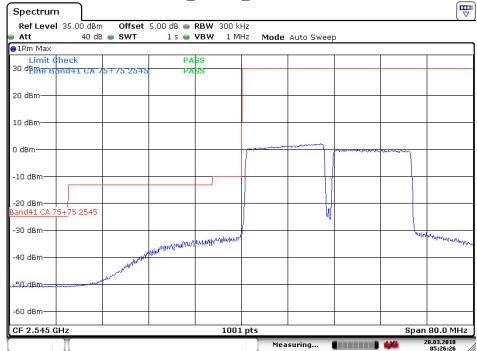
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5.1.1.2.1.2 Test RB=P_75@0 S_0@0



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

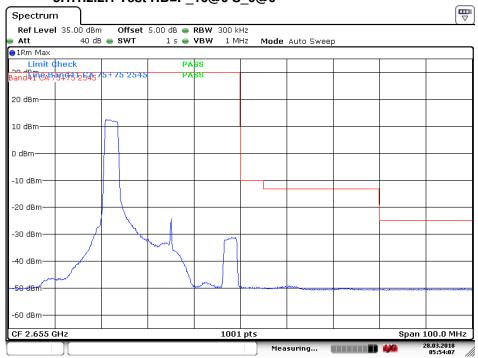


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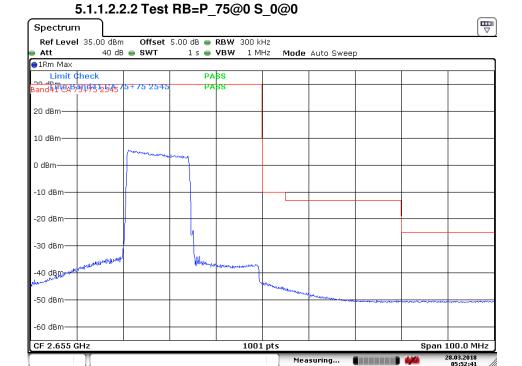
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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=P_16@0 S_0@0



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



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

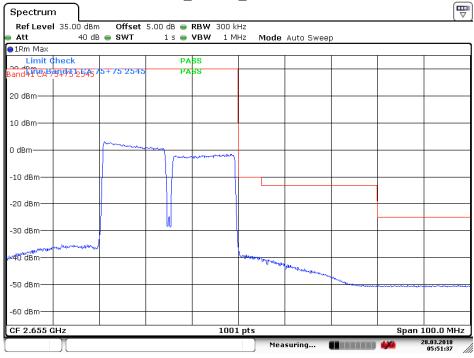
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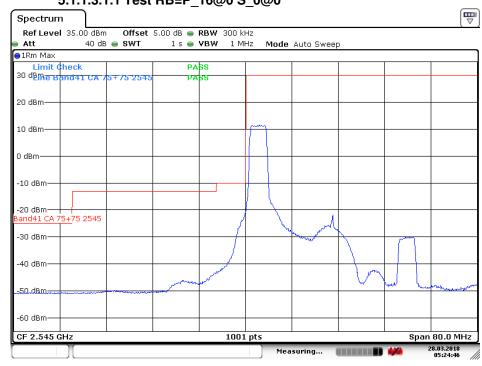




Date: 28.MAR.2018 05:51:38

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

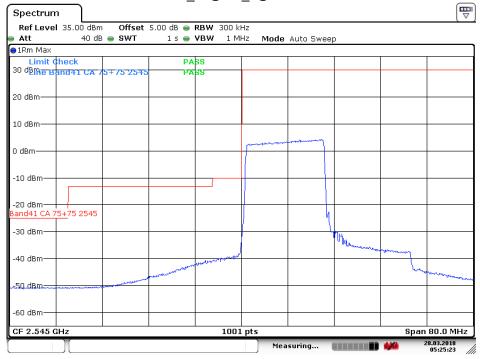
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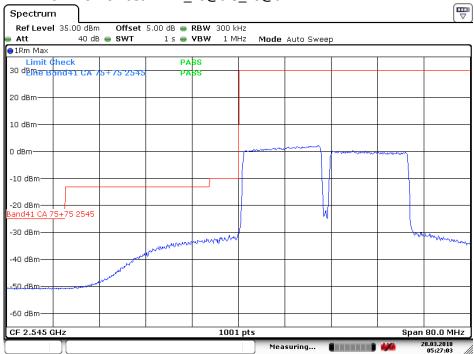
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5.1.1.3.1.2 Test RB=P_75@0 S_0@0



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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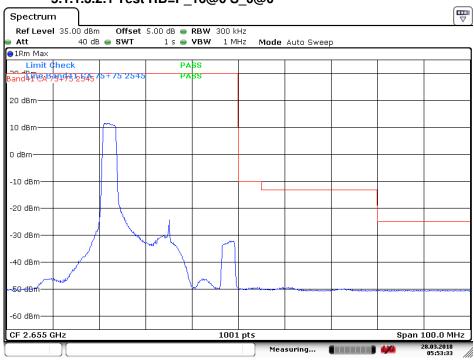


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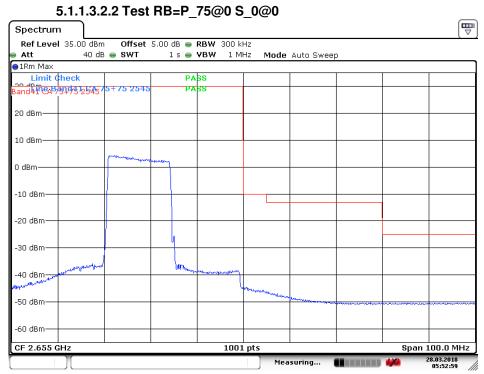
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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=P_16@0 S_0@0



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



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



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5.1.1.3.2.3 Test RB=P_75@0 S_75@0

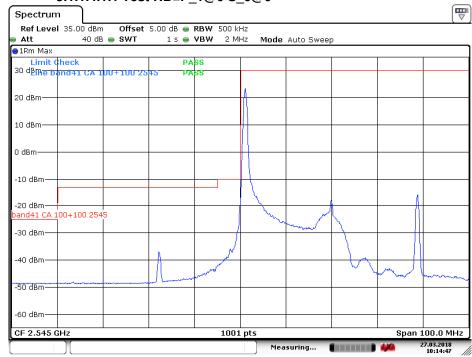


Date: 28.MAR.2018 05:50:09

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

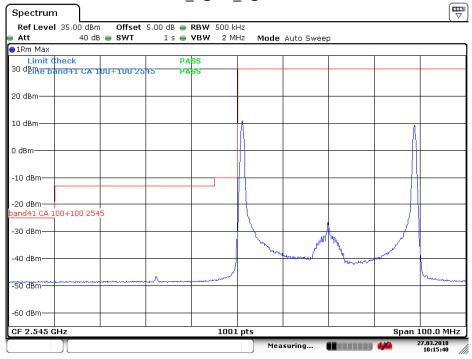
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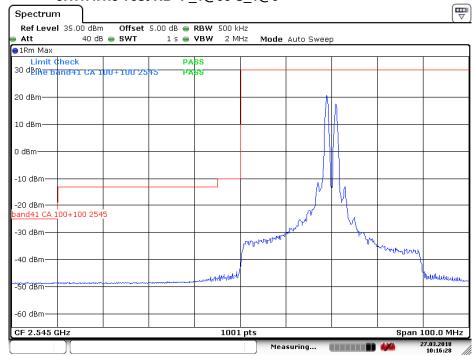
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5.1.1.4.1.2 Test RB=P_1@0 S_1@99



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

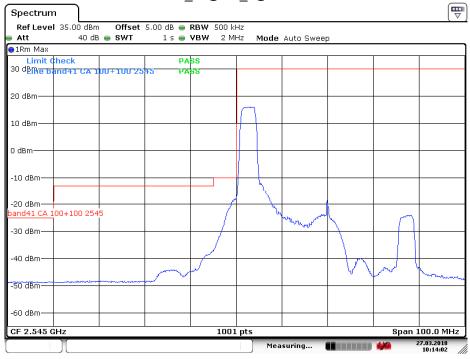
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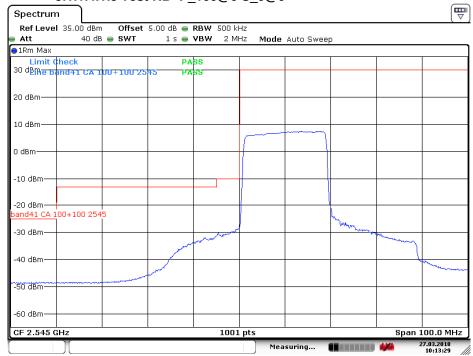
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5.1.1.4.1.4 Test RB=P_18@0 S_0@0



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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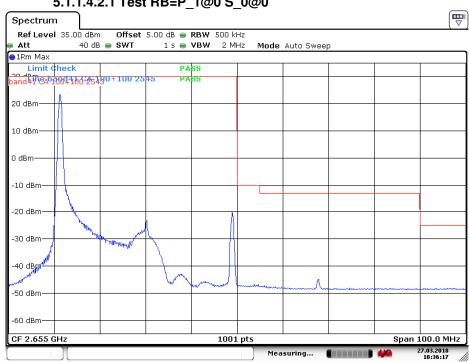




Date: 27.MAR.2018 10:12:43

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

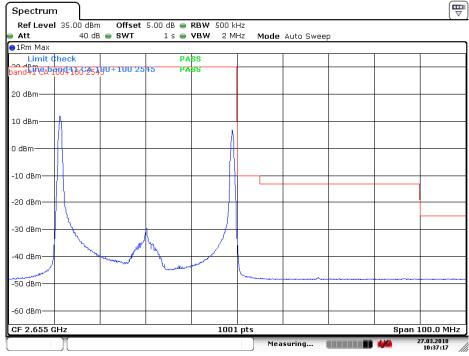
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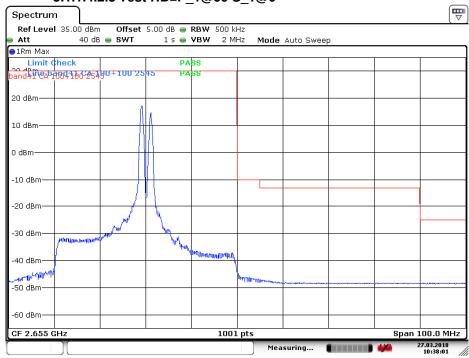
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5.1.1.4.2.2 Test RB=P_1@0 S_1@99



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

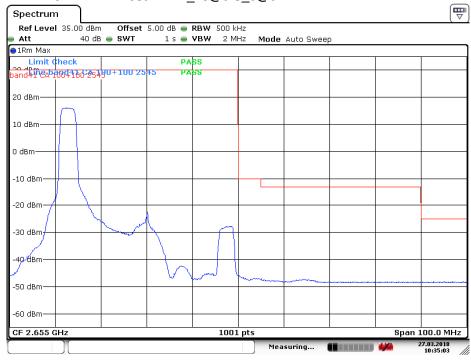
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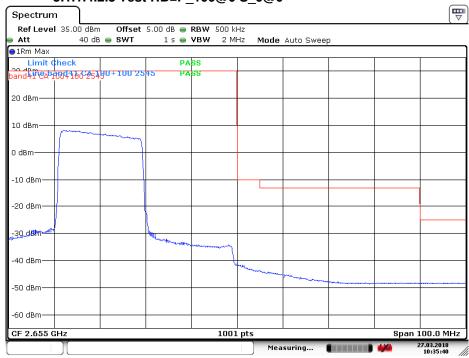
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5.1.1.4.2.4 Test RB=P_18@0 S_0@0



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