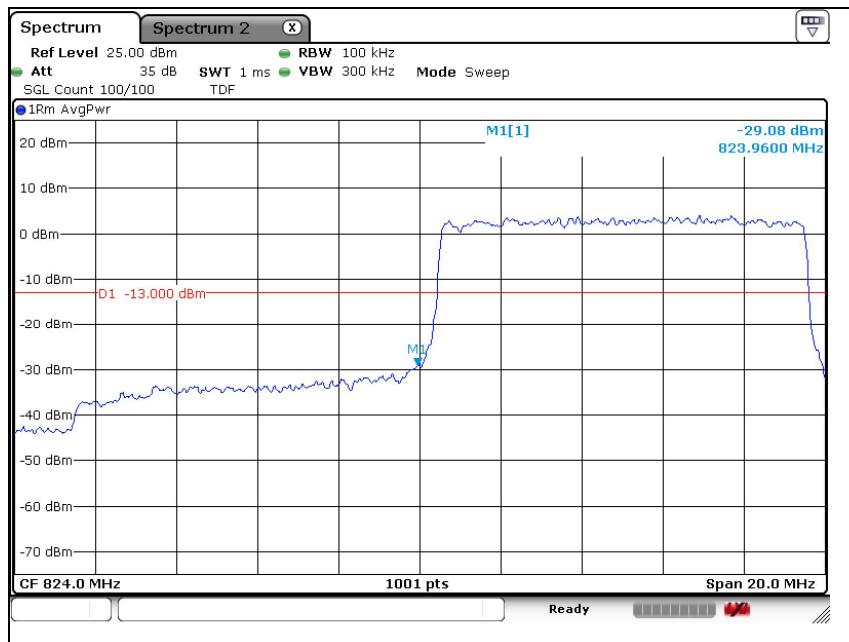
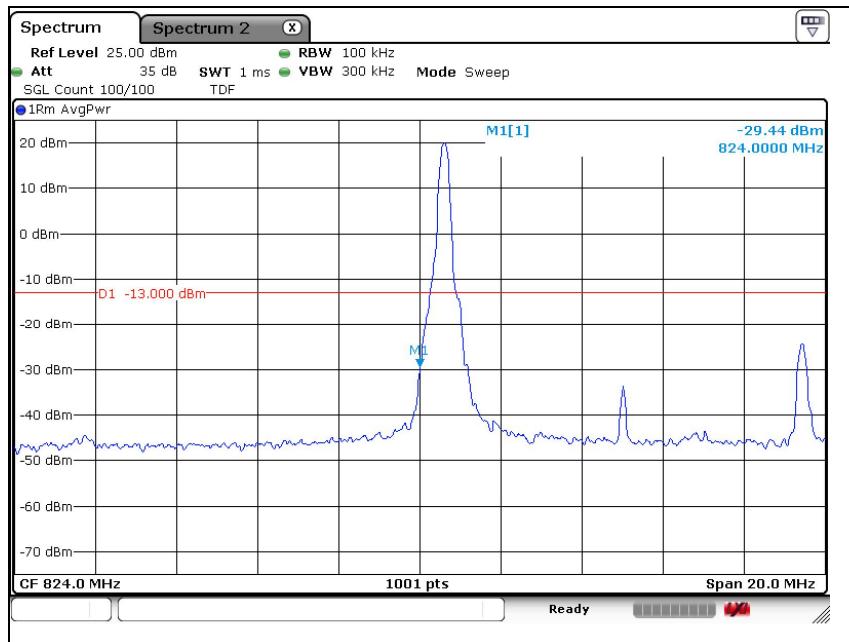


**LTE band 26/5 (10 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 26/5 (10 MHz – QPSK\_1 RB)**

Low Channel



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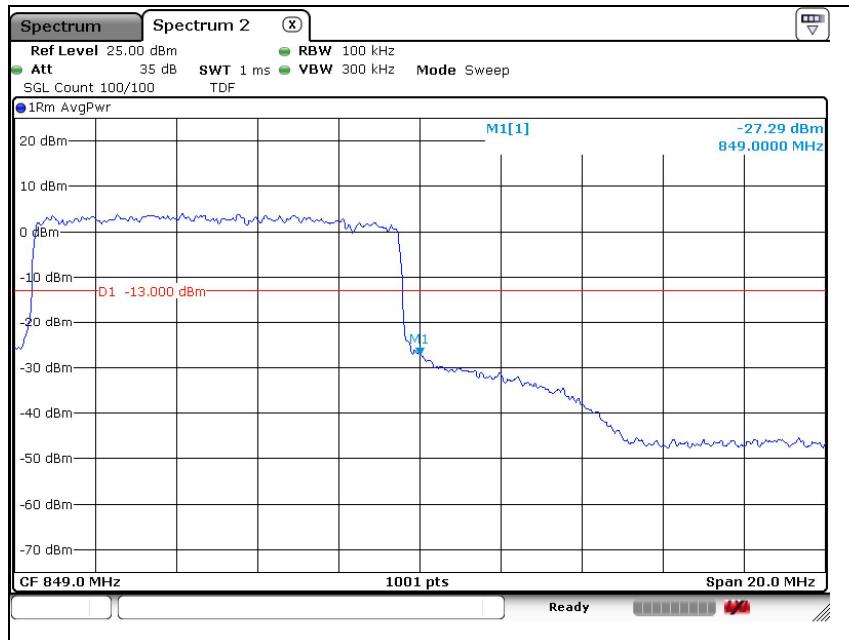
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

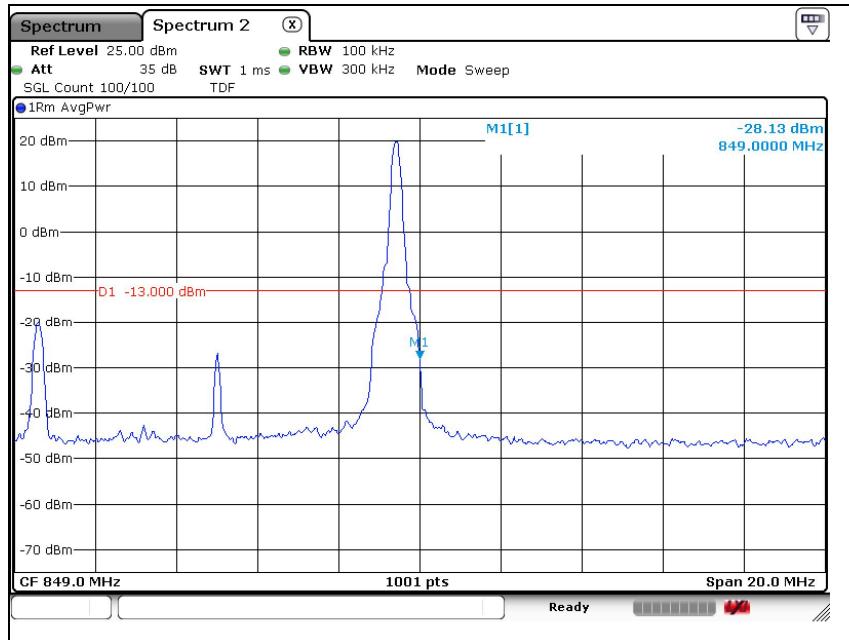
A4(210 mm x 297 mm)

**LTE band 26/5 (10 MHz – QPSK\_Full RB)**

High Channel

**LTE band 26/5 (10 MHz – QPSK\_1 RB)**

High Channel

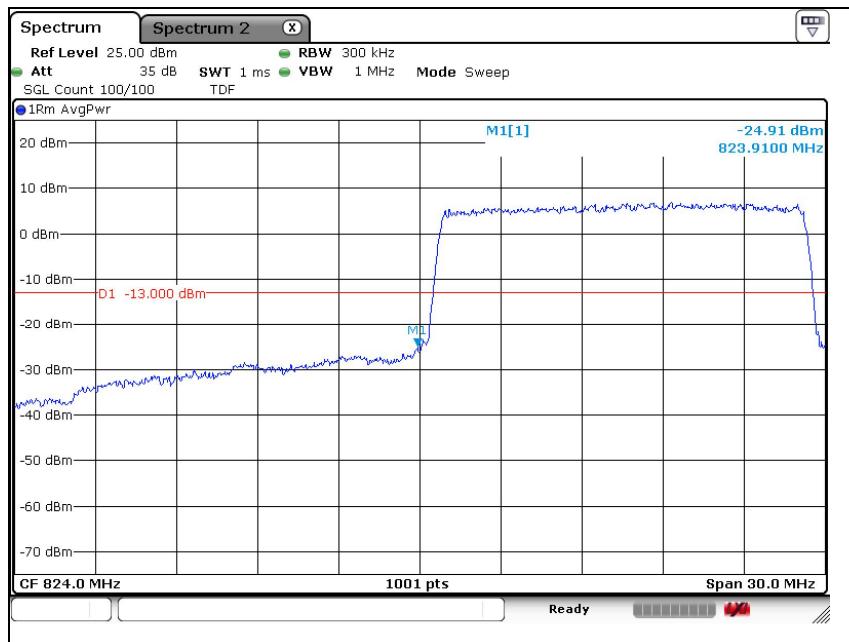


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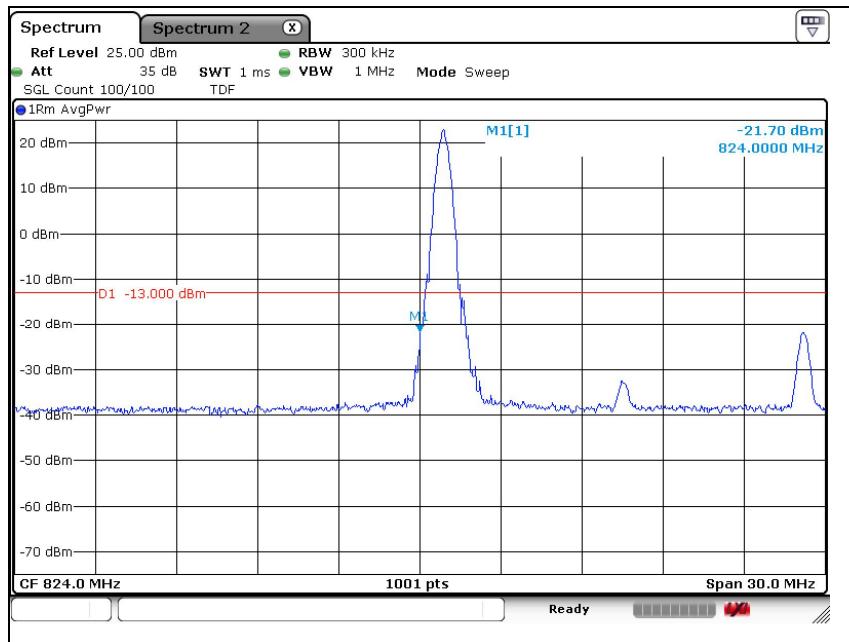
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

**LTE band 26 (15 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 26 (15 MHz – QPSK\_1 RB)**

Low Channel

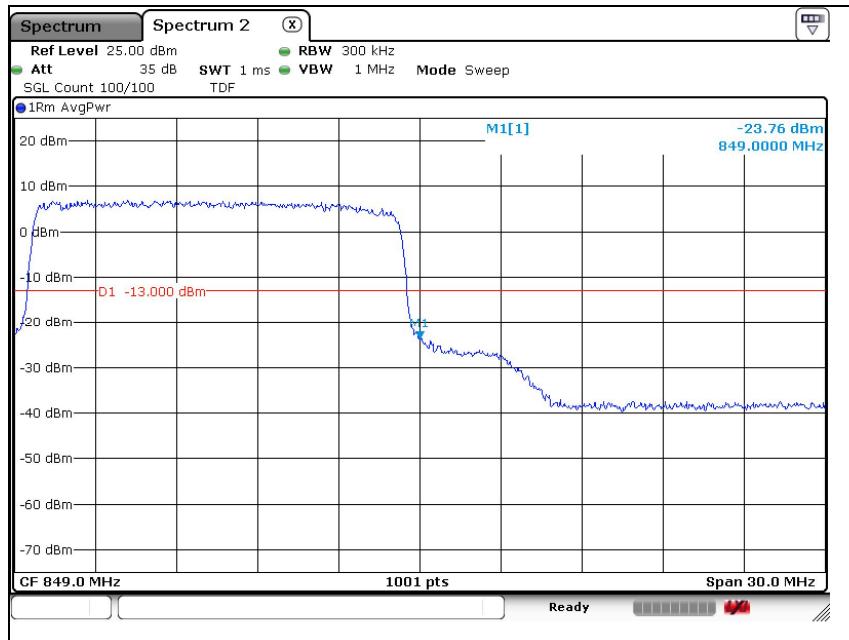


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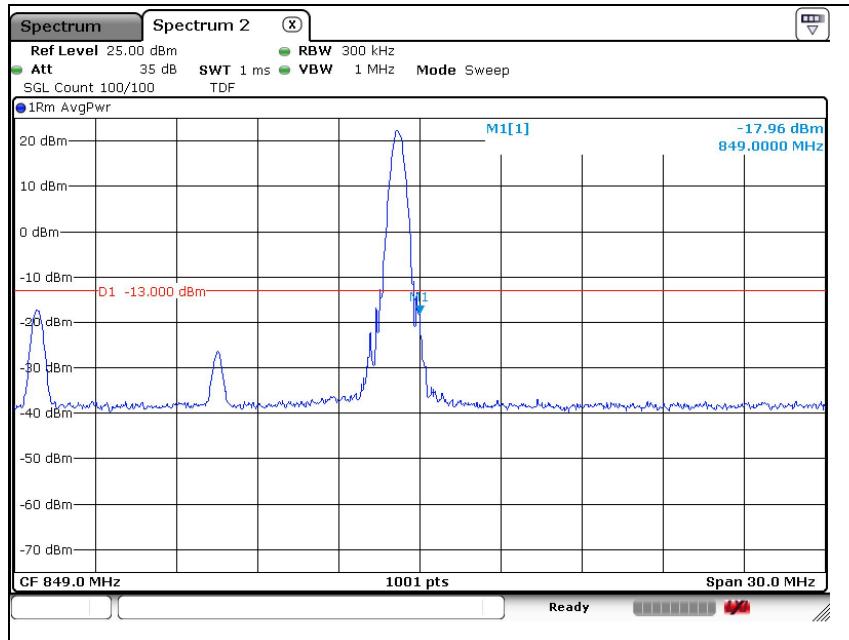
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

**LTE band 26 (15 MHz – QPSK\_Full RB)**

High Channel

**LTE band 26 (15 MHz – QPSK\_1 RB)**

High Channel

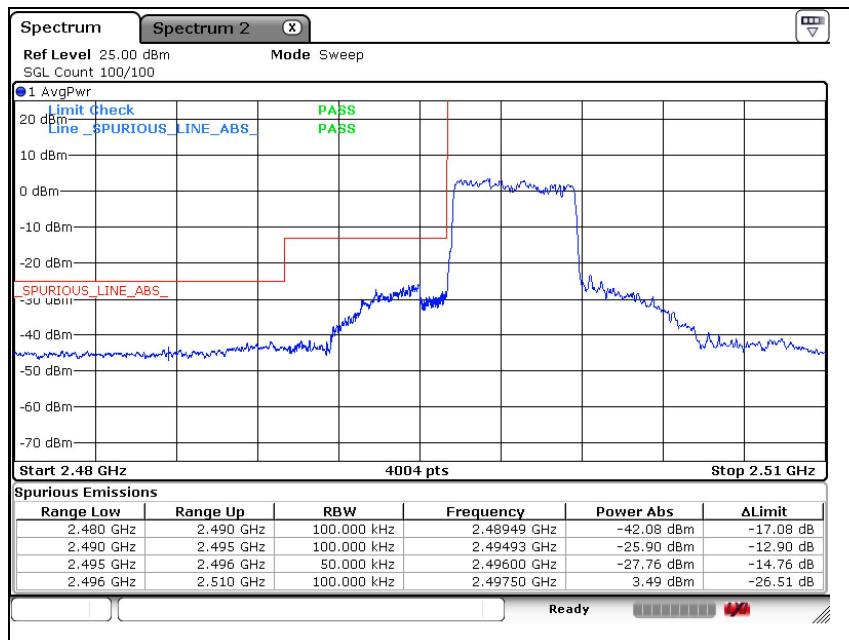


The results of this test report are effective only to the items tested. The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

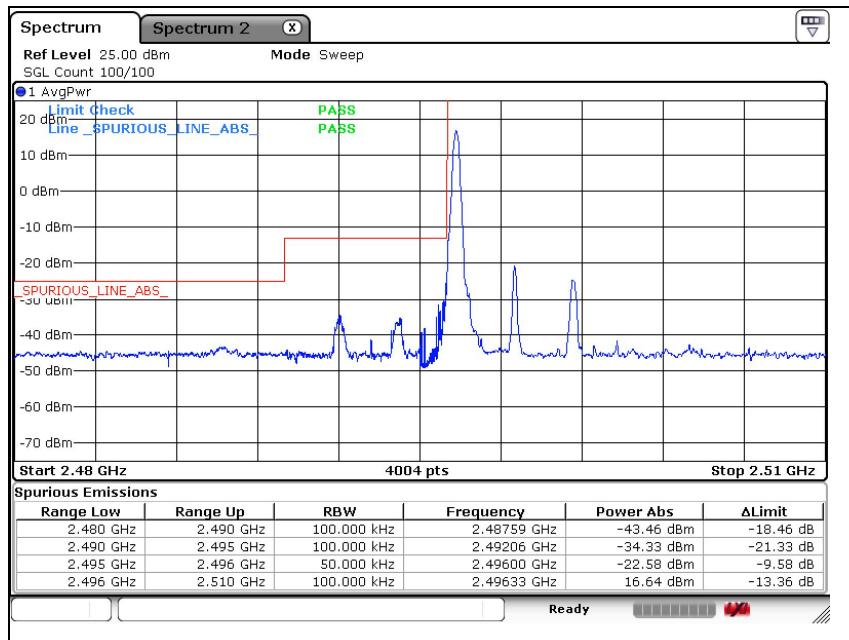
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

**LTE band 41 (5 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 41 (5 MHz – QPSK\_1 RB)**

Low Channel

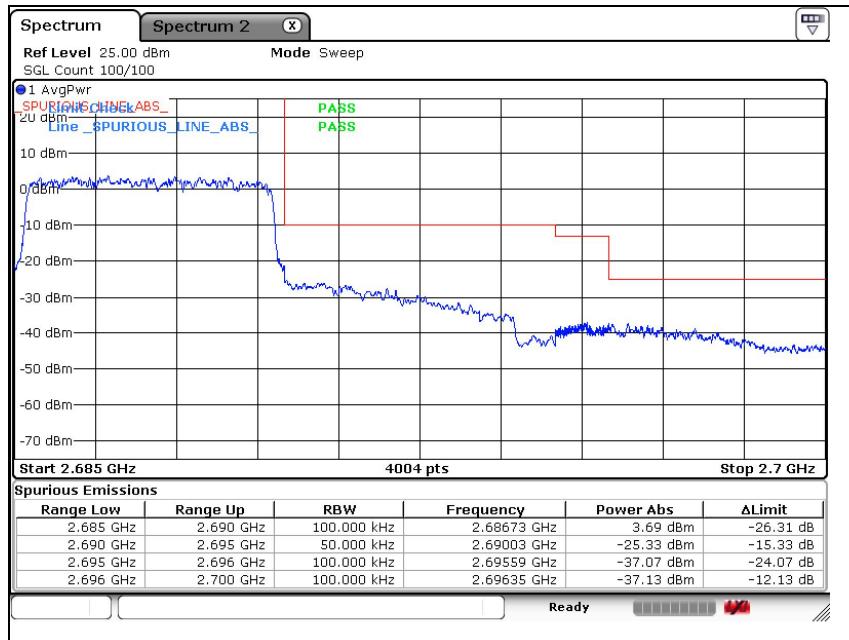


The results of this test report are effective only to the items tested. The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

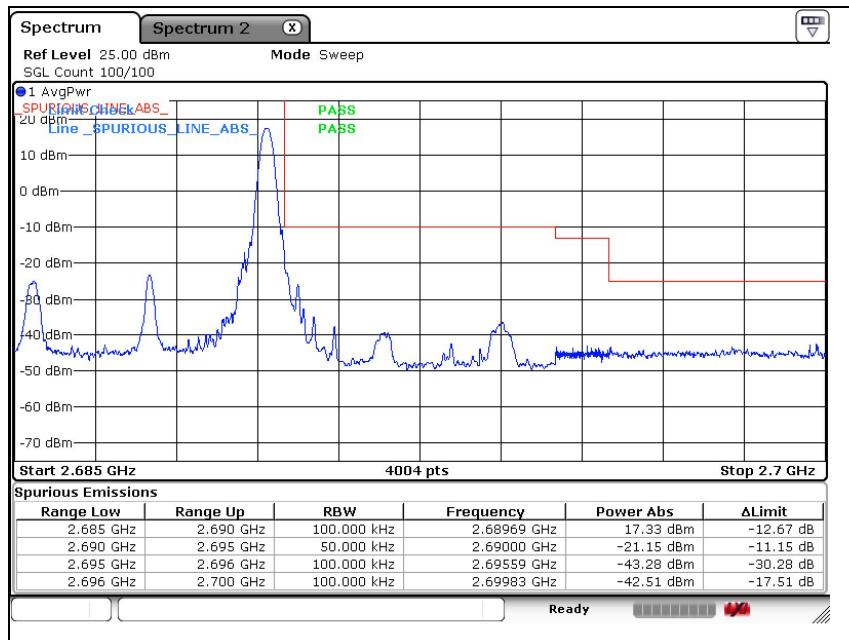
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

**LTE band 41 (5 MHz – QPSK\_Full RB)**

High Channel


**LTE band 41 (5 MHz – QPSK\_1 RB)**

High Channel

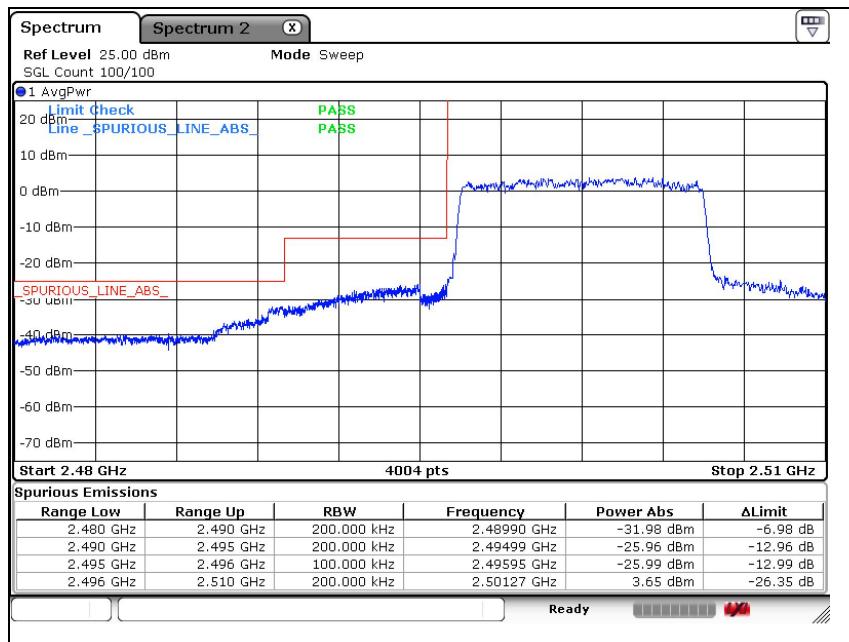


The results of this test report are effective only to the items tested. The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

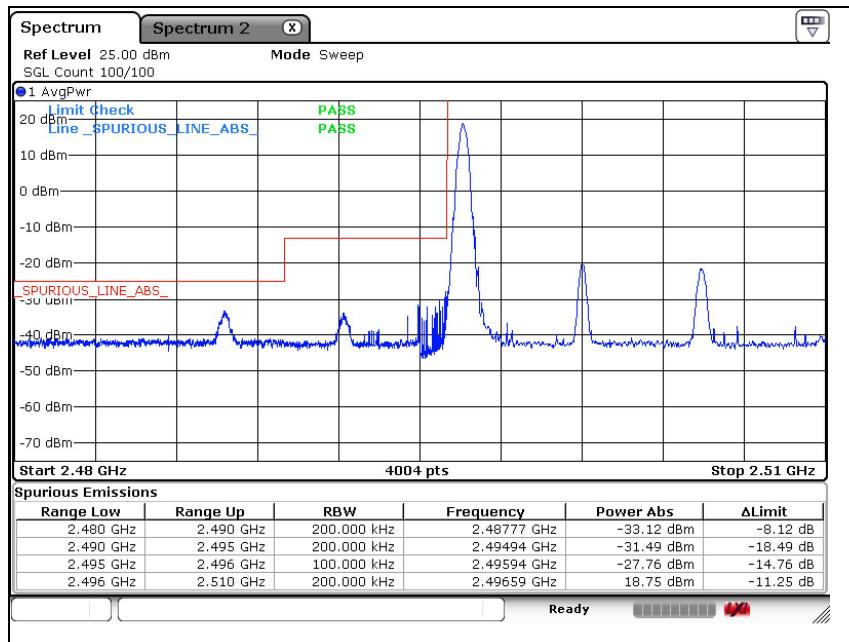
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

**LTE band 41 (10 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 41 (10 MHz – QPSK\_1 RB)**

Low Channel

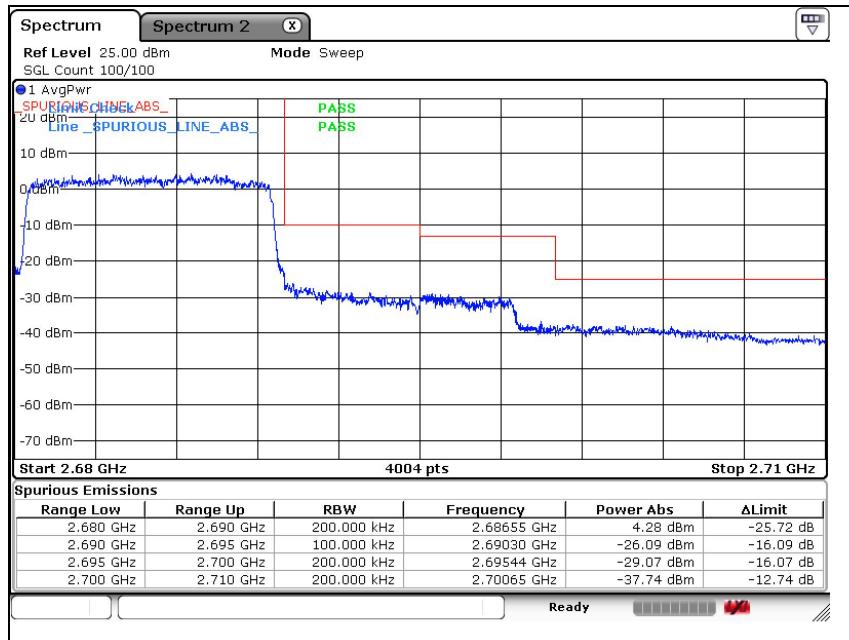


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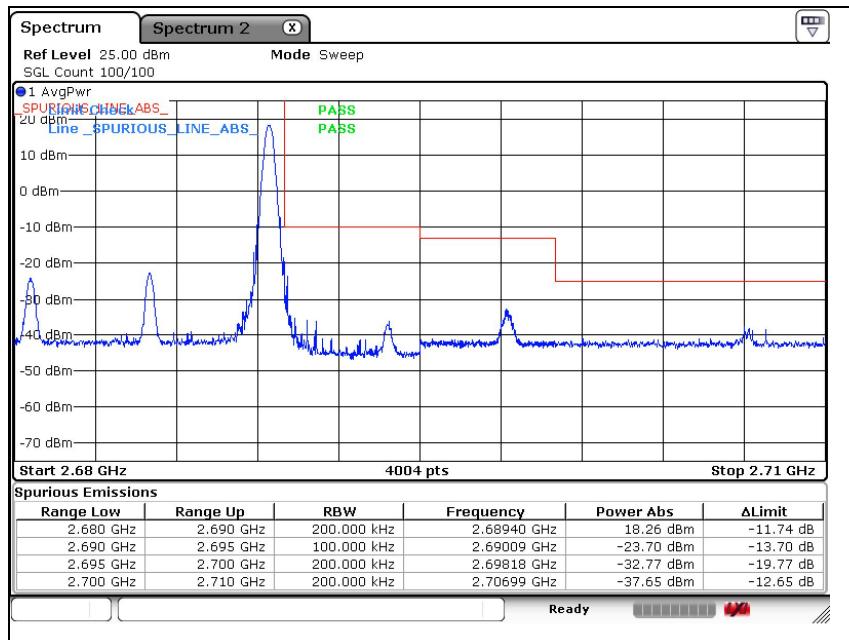
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

**LTE band 41 (10 MHz – QPSK\_Full RB)**

High Channel

**LTE band 41 (10 MHz – QPSK\_1 RB)**

High Channel

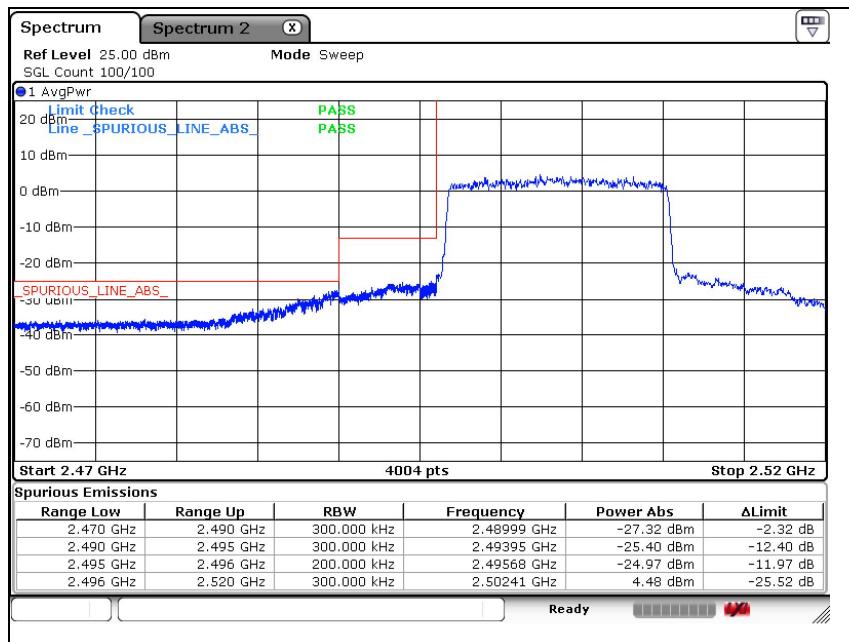


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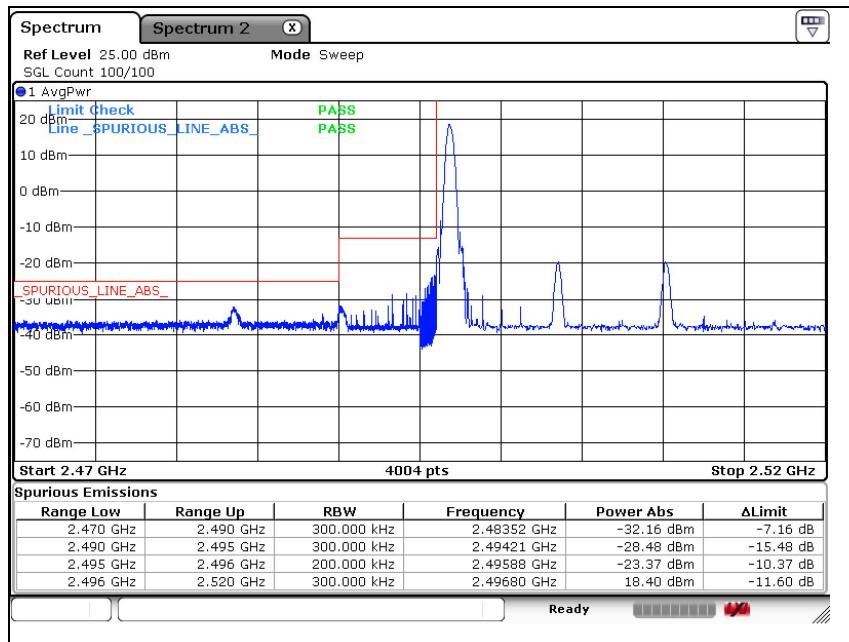
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**LTE band 41 (15 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 41 (15 MHz – QPSK\_1 RB)**

Low Channel

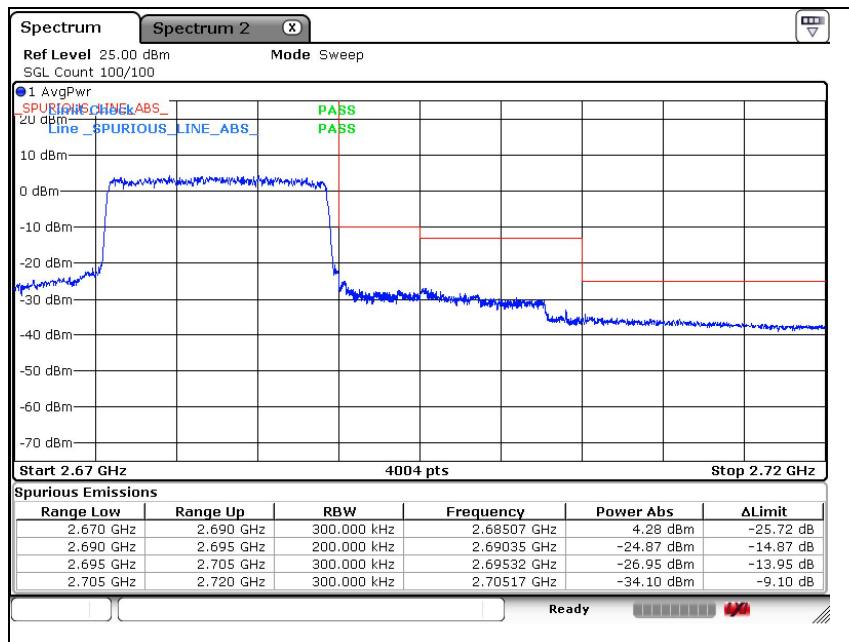


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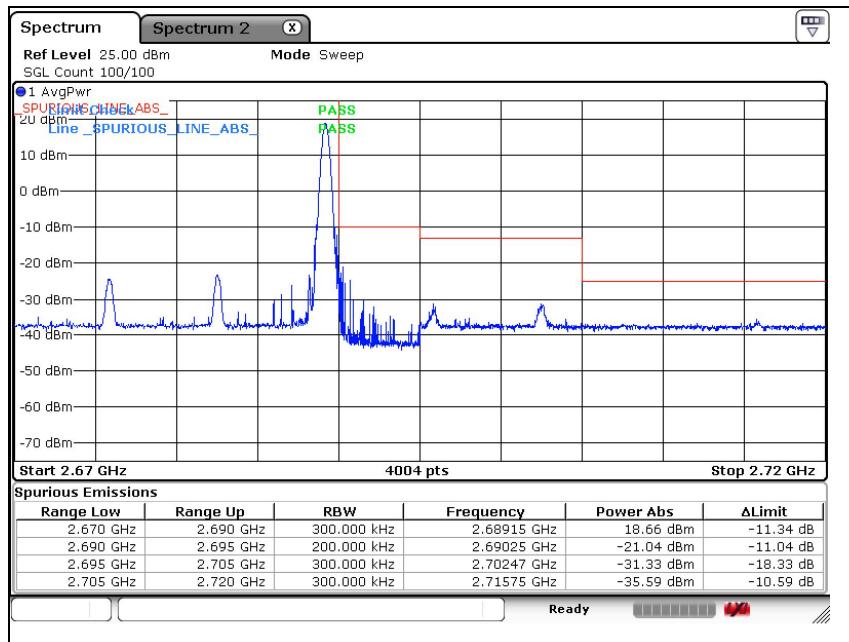
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

**LTE band 41 (15 MHz – QPSK\_Full RB)**

High Channel

**LTE band 41 (15 MHz – QPSK\_1 RB)**

High Channel

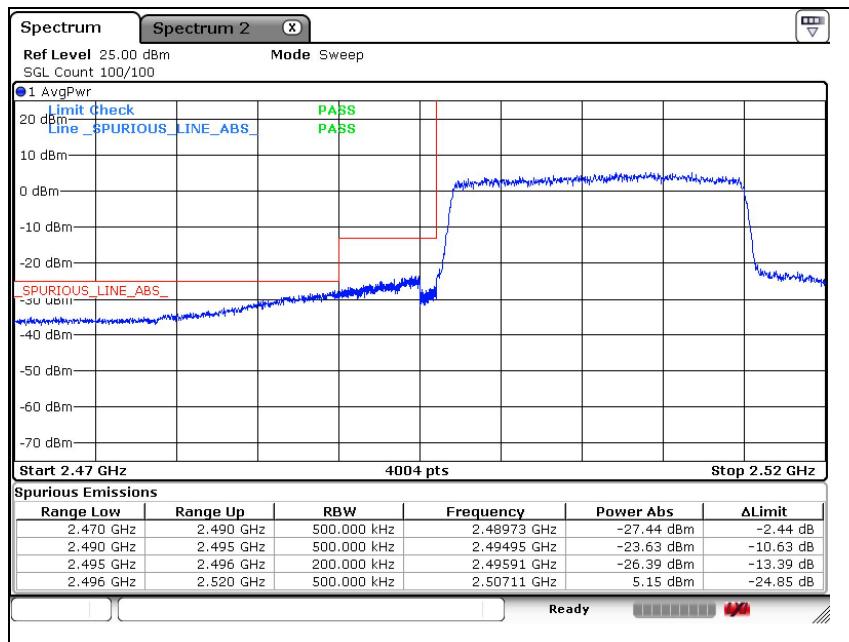


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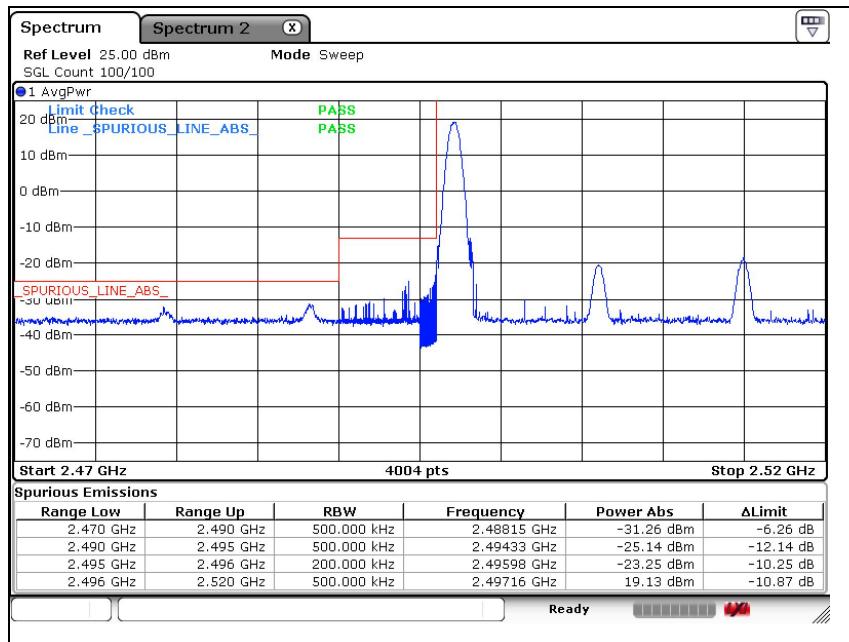
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**LTE band 41 (20 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 41 (20 MHz – QPSK\_1 RB)**

Low Channel

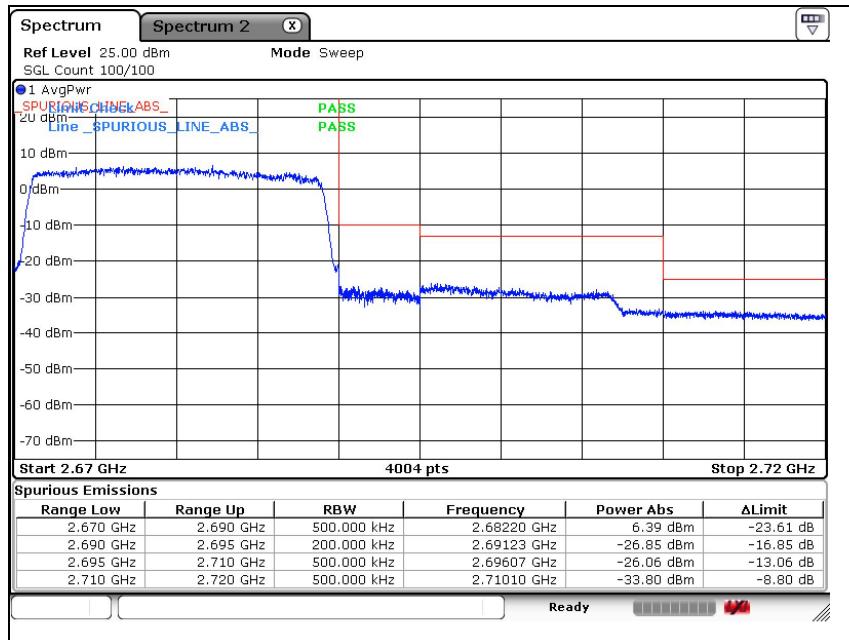


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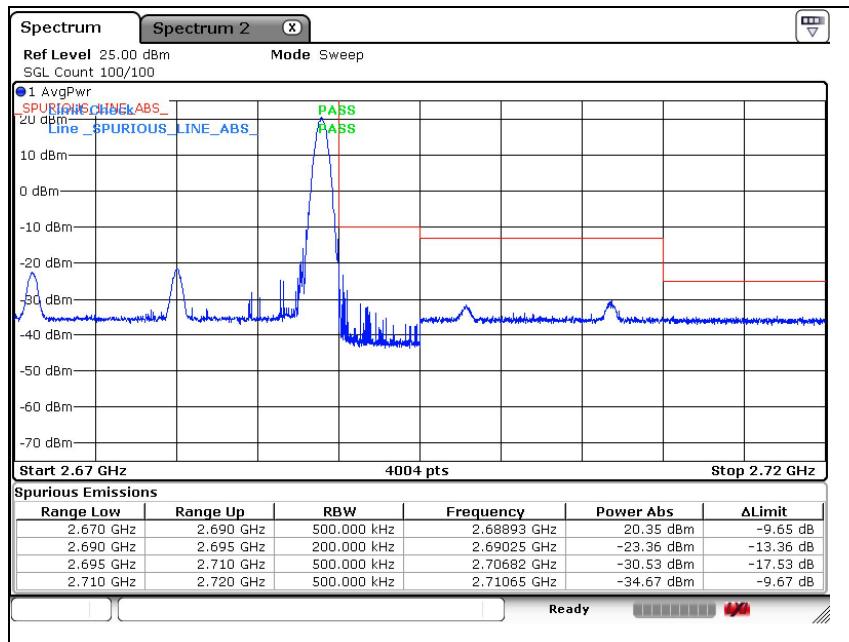
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

**LTE band 41 (20 MHz – QPSK\_Full RB)**

High Channel

**LTE band 41 (20 MHz – QPSK\_1 RB)**

High Channel

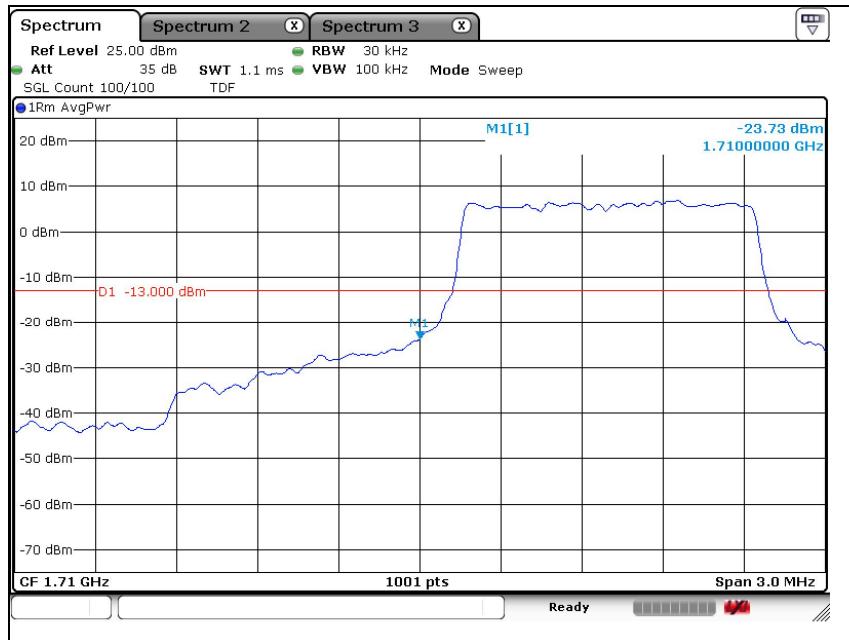


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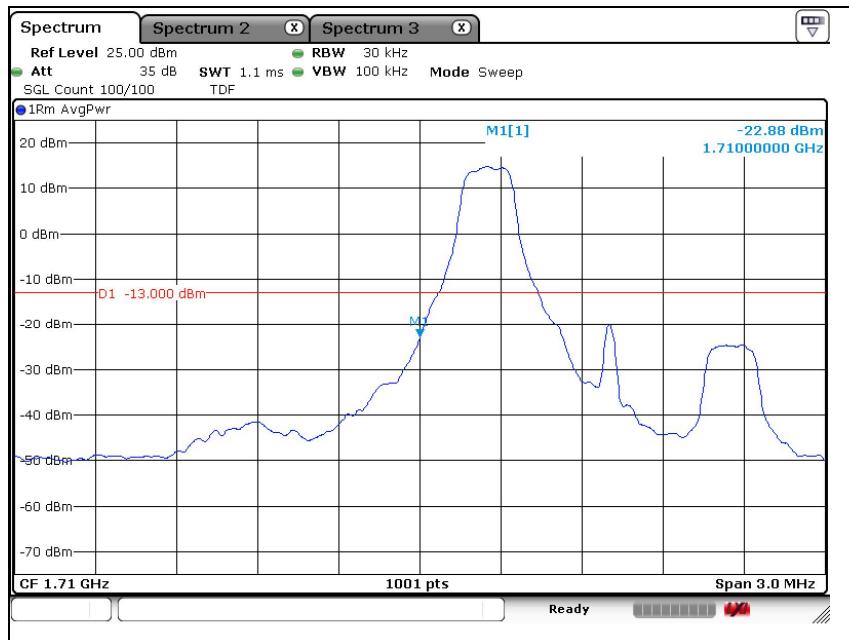
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**LTE band 66/4 (1.4 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 66/4 (1.4 MHz – QPSK\_1 RB)**

Low Channel



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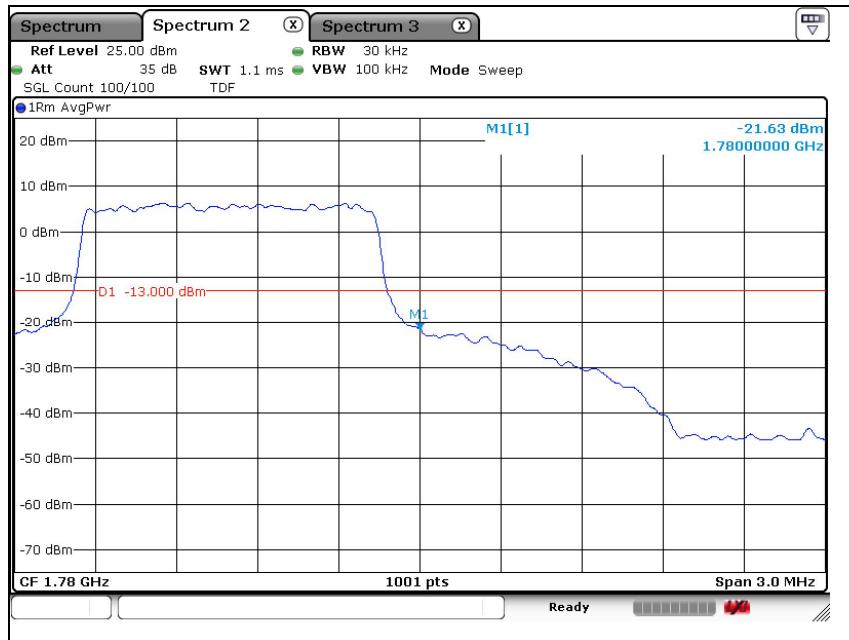
RTT5041-19(2019.04.24)(1)

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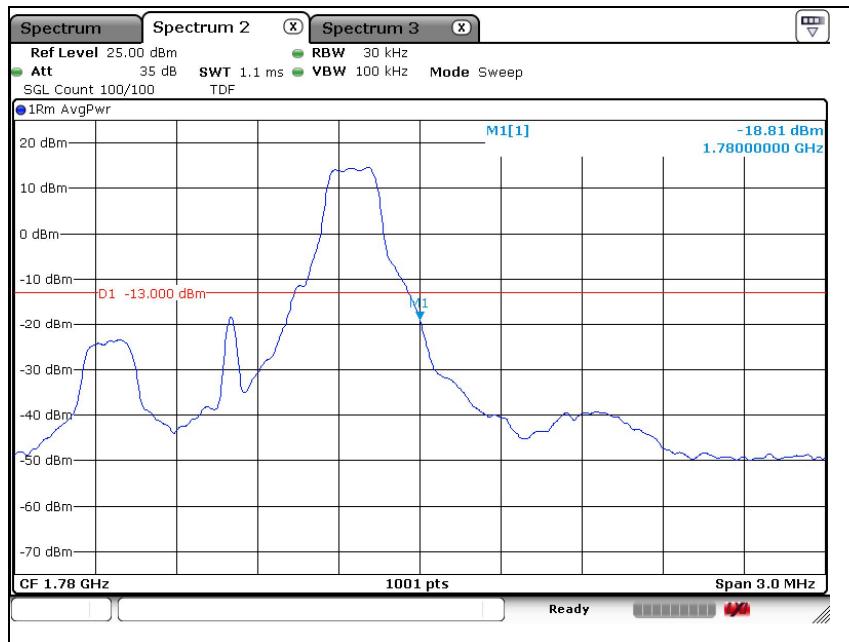
A4(210 mm x 297 mm)

**LTE band 66/4 (1.4 MHz – QPSK\_Full RB)**

High Channel

**LTE band 66/4 (1.4 MHz – QPSK\_1 RB)**

High Channel



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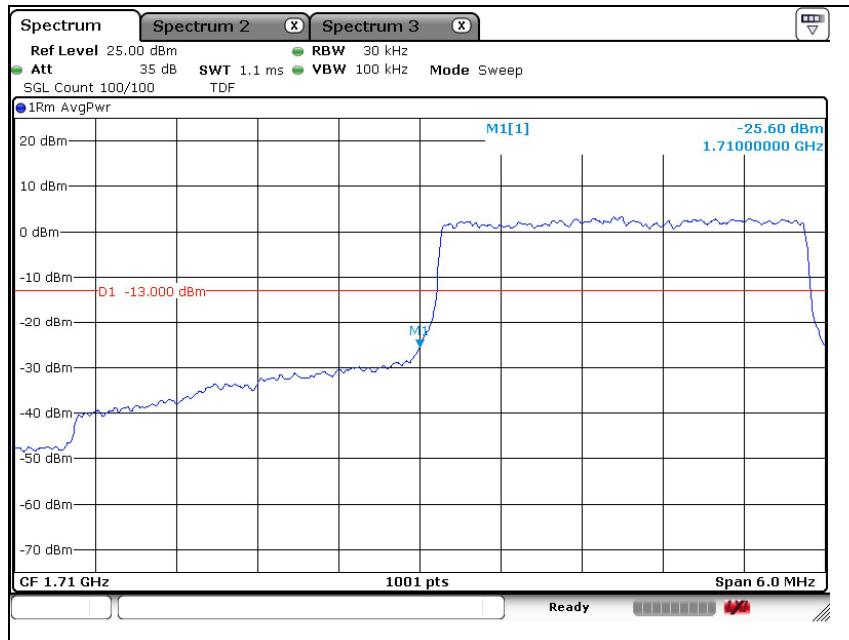
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

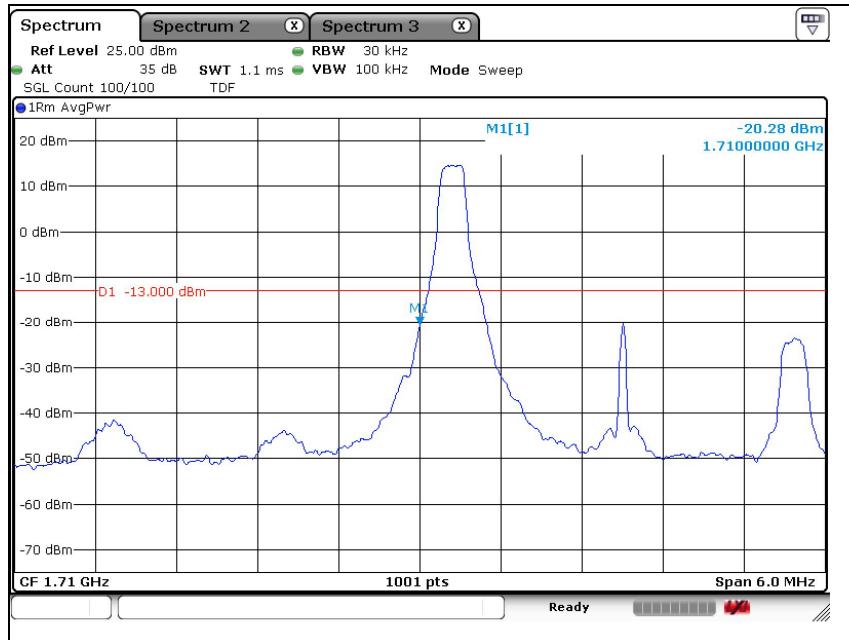
A4(210 mm x 297 mm)

**LTE band 66/4 (3 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 66/4 (3 MHz – QPSK\_1 RB)**

Low Channel



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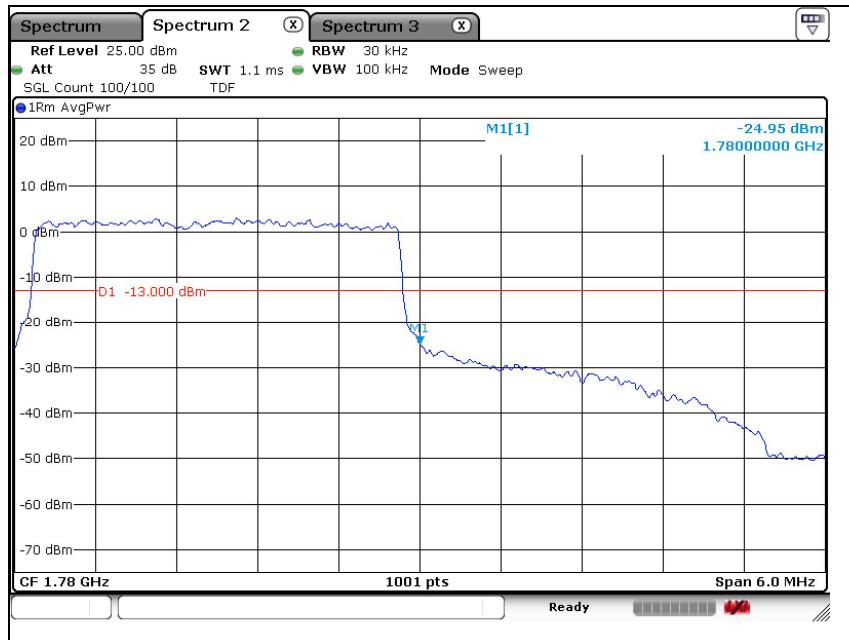
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

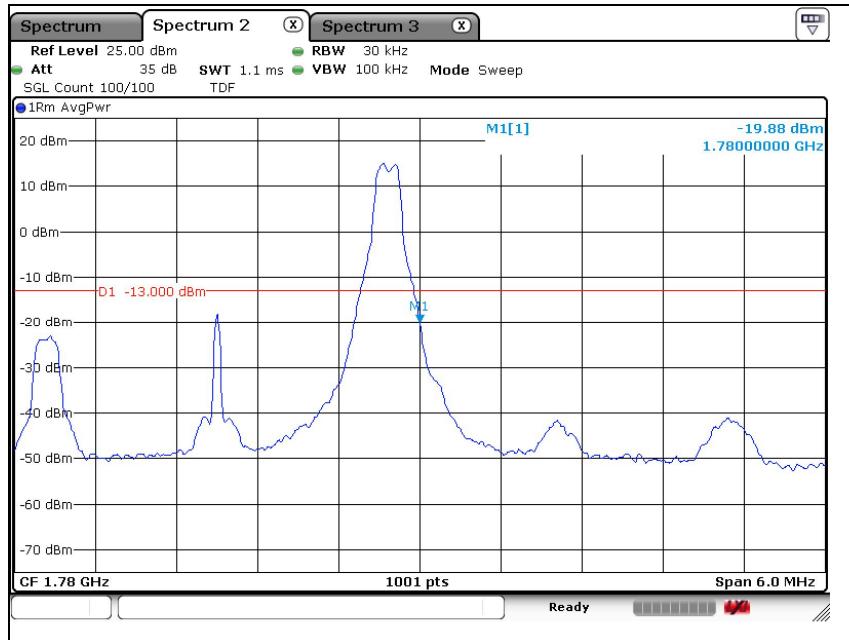
A4(210 mm x 297 mm)

**LTE band 66/4 (3 MHz – QPSK\_Full RB)**

High Channel

**LTE band 66/4 (3 MHz – QPSK\_1 RB)**

High Channel



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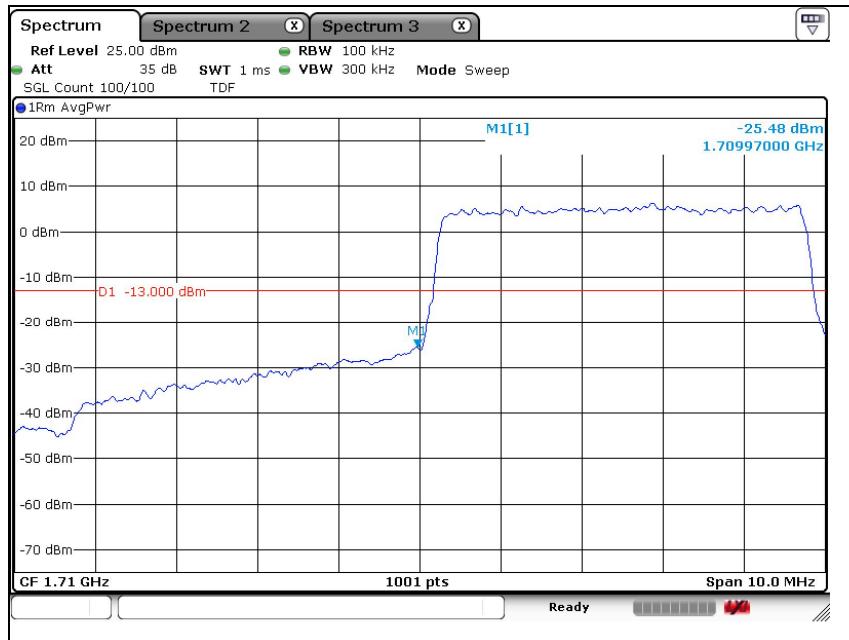
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

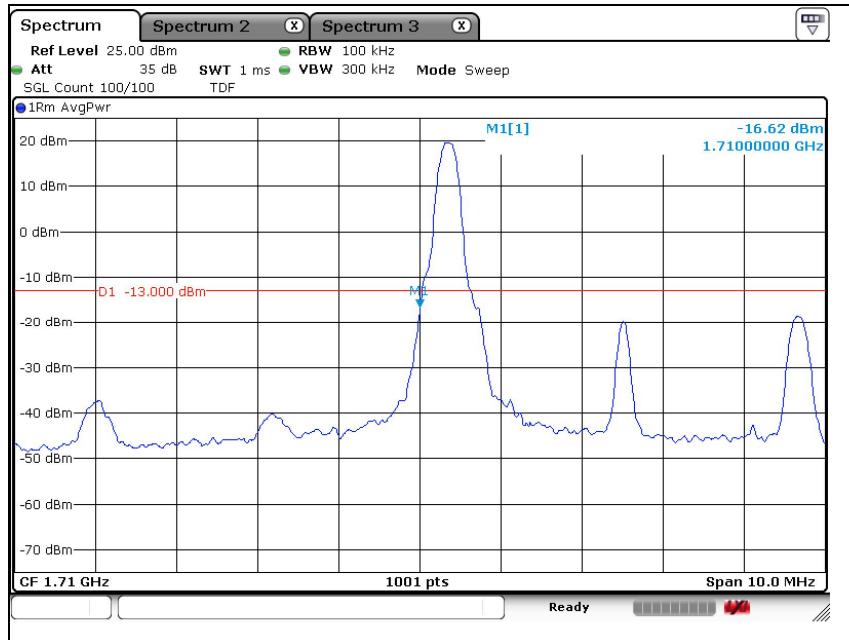
A4(210 mm x 297 mm)

**LTE band 66/4 (5 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 66/4 (5 MHz – QPSK\_1 RB)**

Low Channel

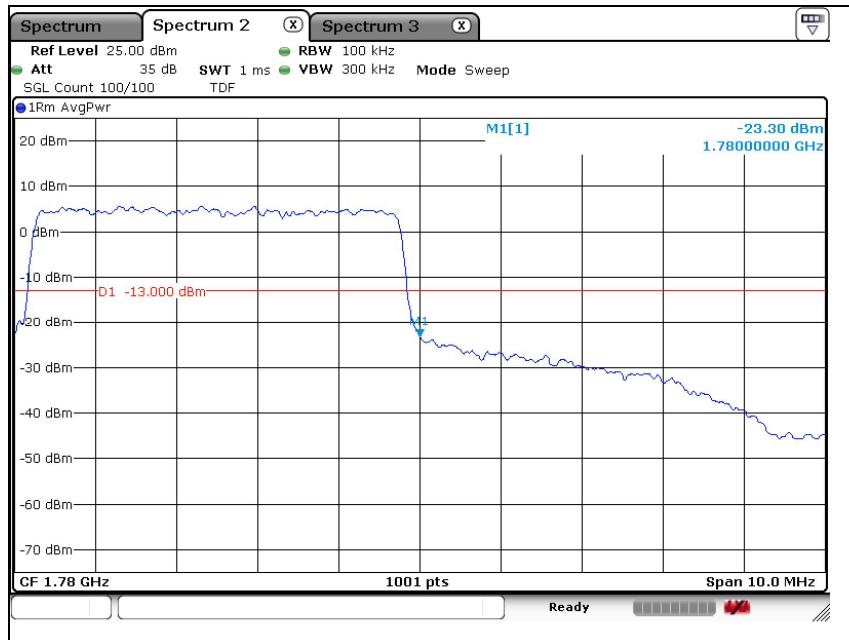


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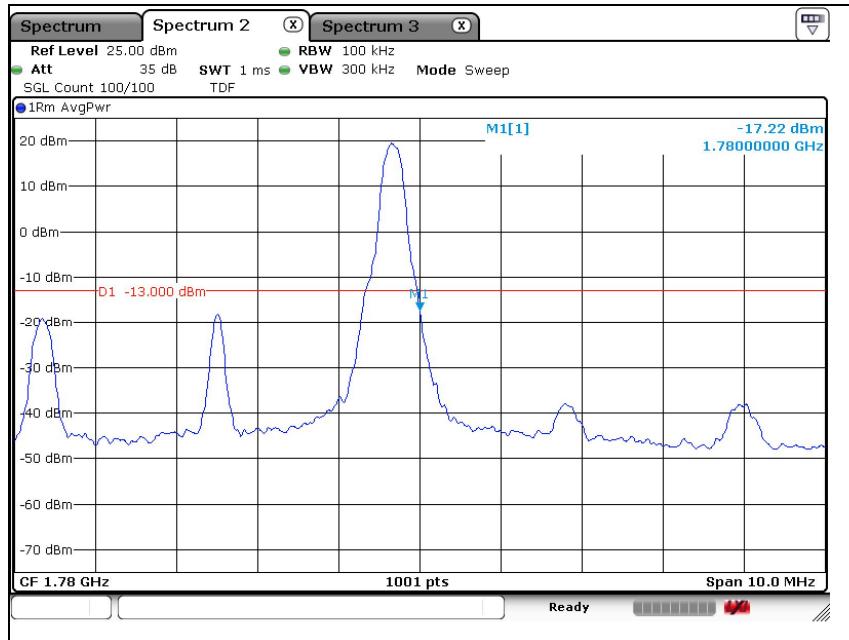
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

**LTE band 66/4 (5 MHz – QPSK\_Full RB)**

High Channel

**LTE band 66/4 (5 MHz – QPSK\_1 RB)**

High Channel



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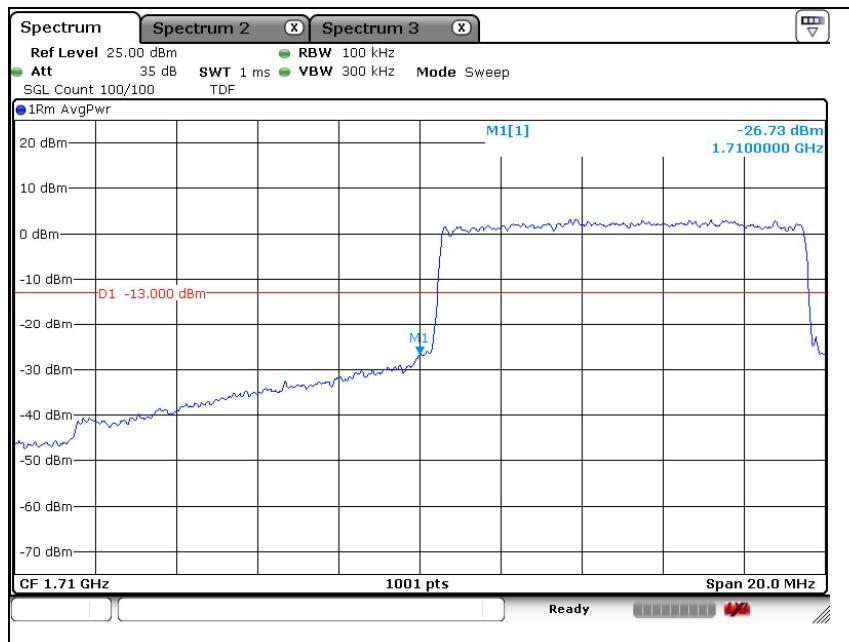
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

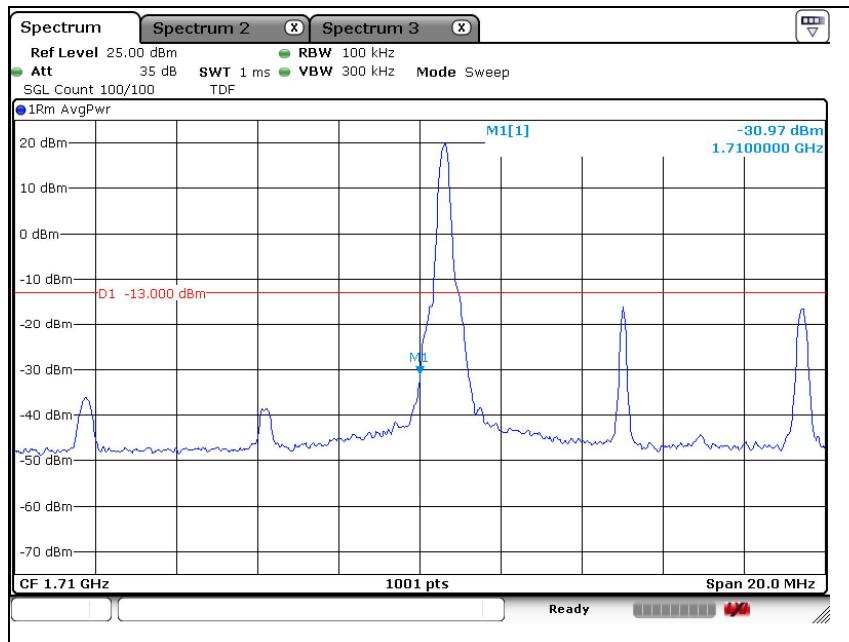
A4(210 mm x 297 mm)

**LTE band 66/4 (10 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 66/4 (10 MHz – QPSK\_1 RB)**

Low Channel

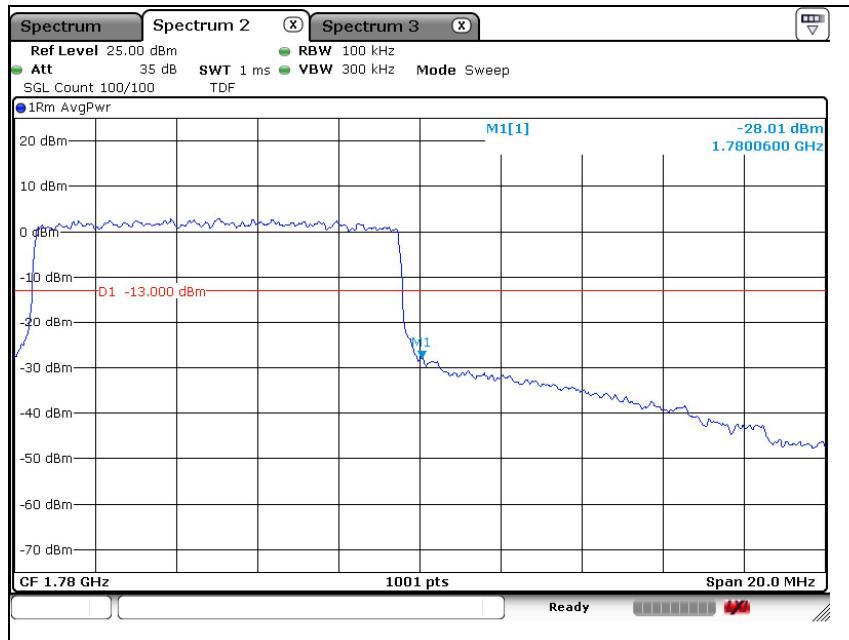


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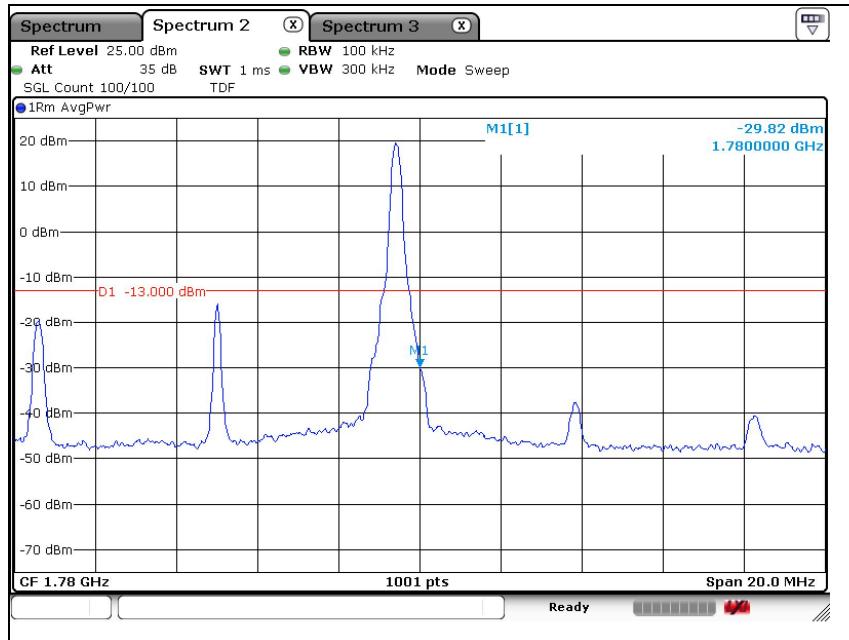
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

**LTE band 66/4 (10 MHz – QPSK\_Full RB)**

High Channel

**LTE band 66/4 (10 MHz – QPSK\_1 RB)**

High Channel



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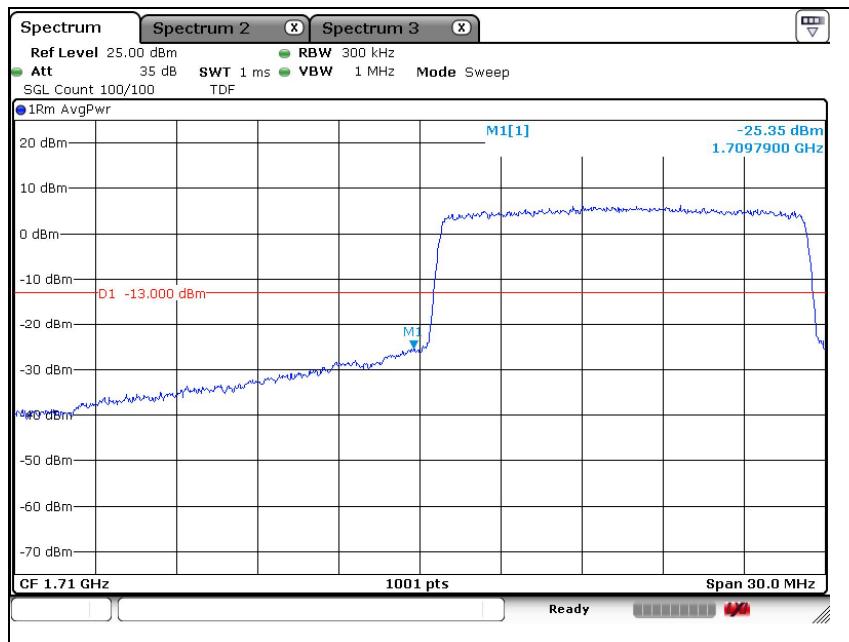
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Tel. +82 31 428 5700 / Fax. +82 31 427 2370

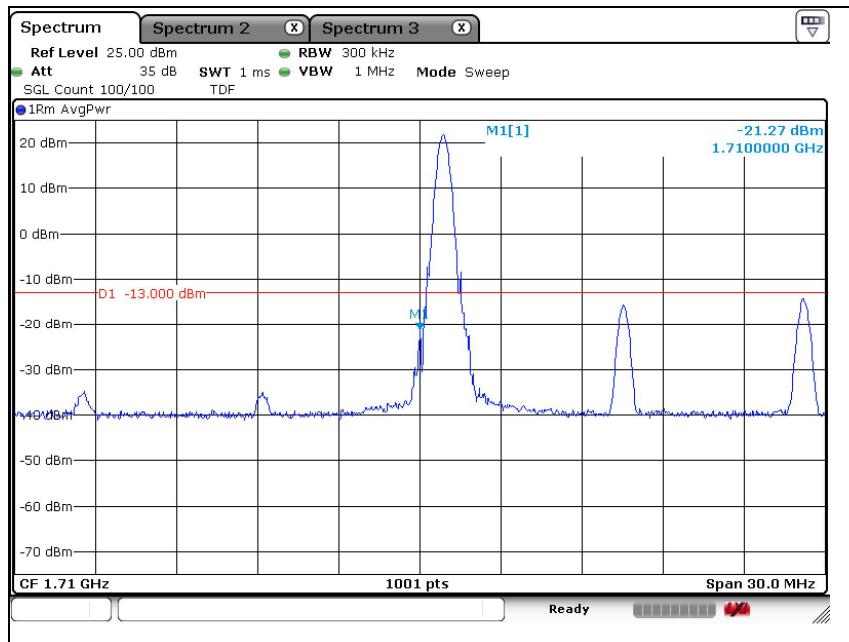
A4(210 mm x 297 mm)

**LTE band 66/4 (15 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 66/4 (15 MHz – QPSK\_1 RB)**

Low Channel



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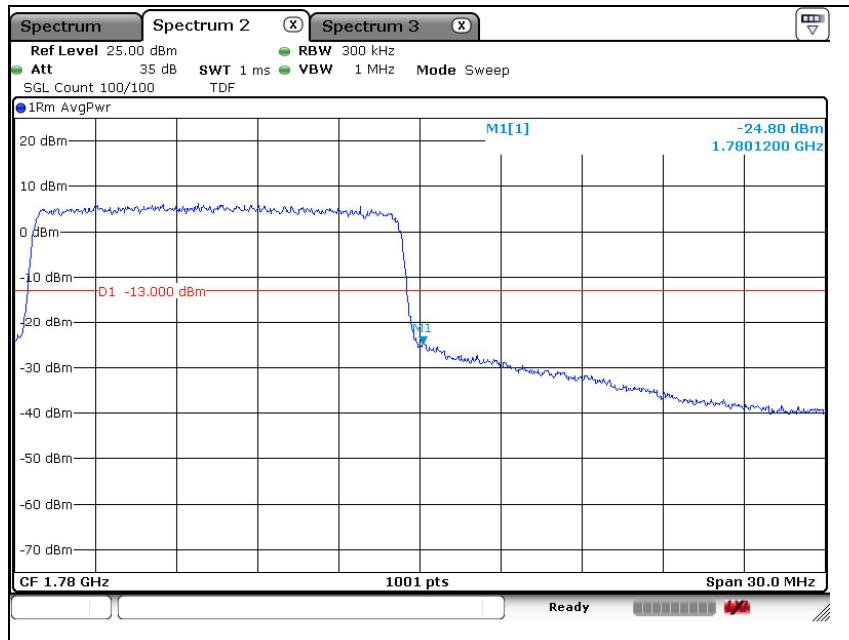
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

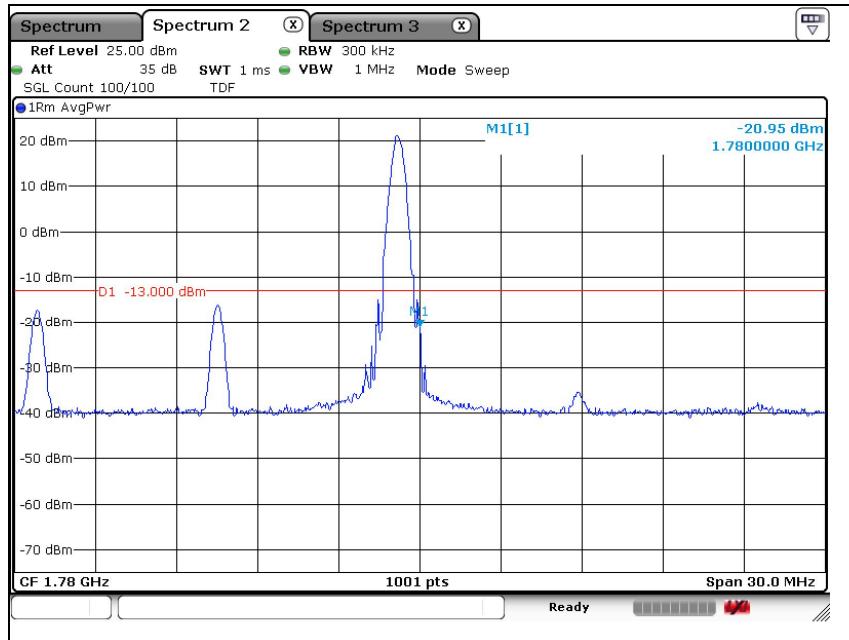
A4(210 mm x 297 mm)

**LTE band 66/4 (15 MHz – QPSK\_Full RB)**

High Channel

**LTE band 66/4 (15 MHz – QPSK\_1 RB)**

High Channel



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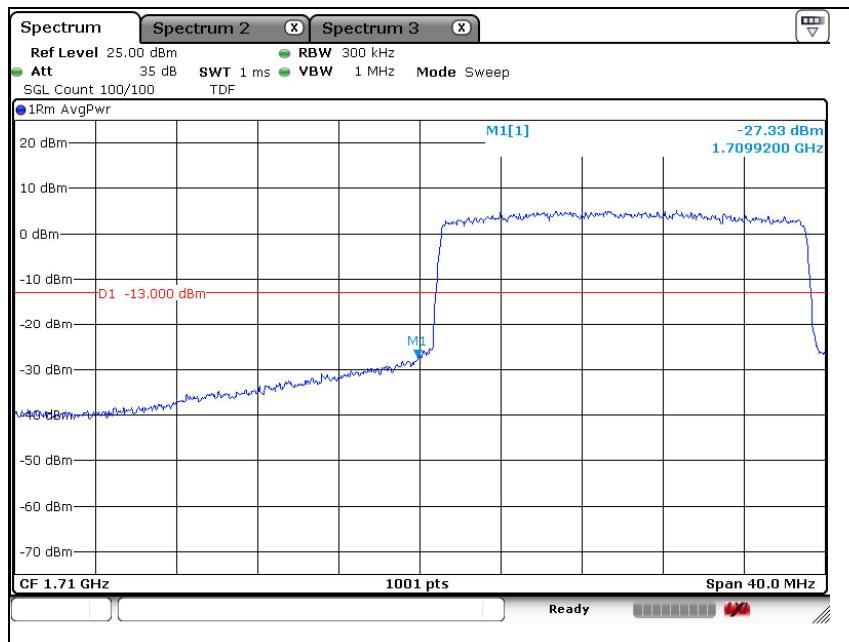
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

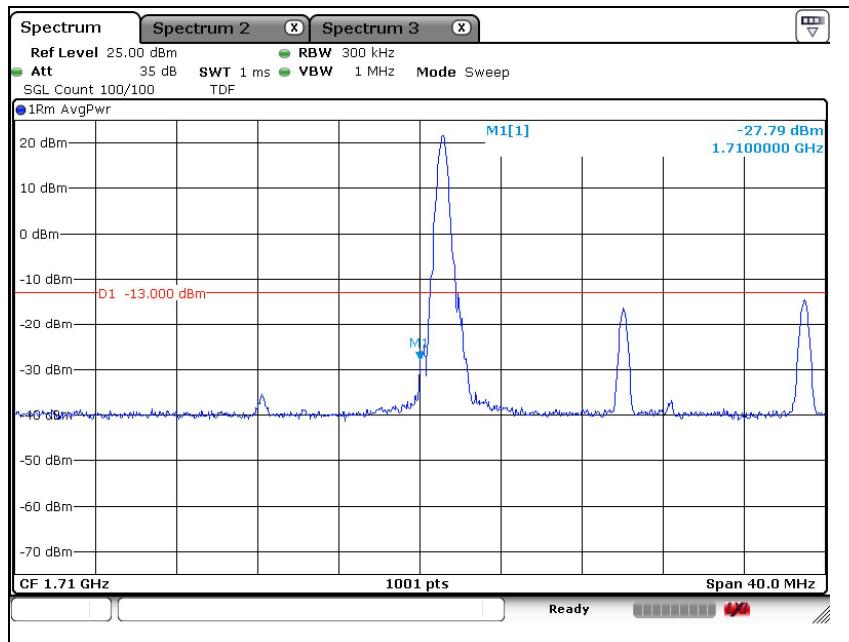
A4(210 mm x 297 mm)

**LTE band 66/4 (20 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 66/4 (20 MHz – QPSK\_1 RB)**

Low Channel



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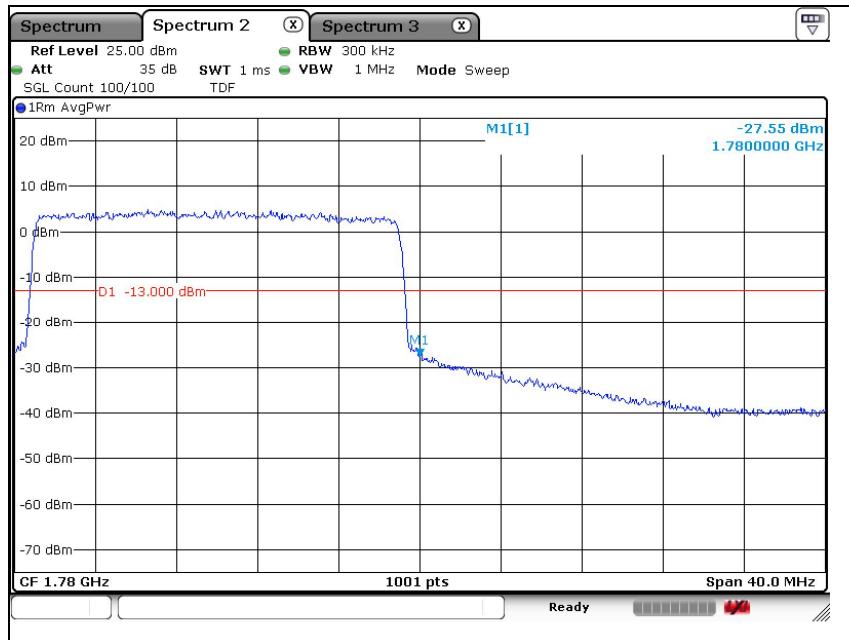
RTT5041-19(2019.04.24)(1)

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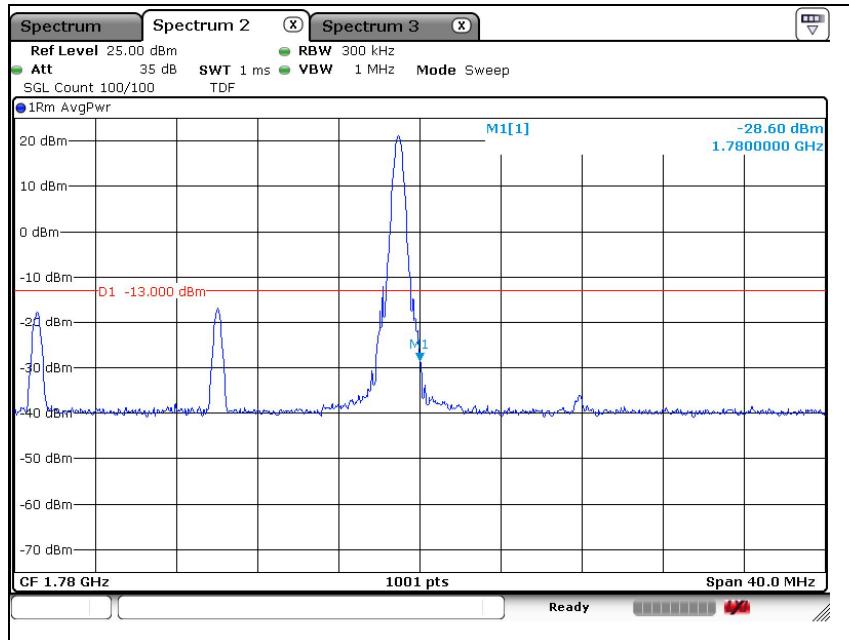
A4(210 mm x 297 mm)

**LTE band 66/4 (20 MHz – QPSK\_Full RB)**

High Channel

**LTE band 66/4 (20 MHz – QPSK\_1 RB)**

High Channel



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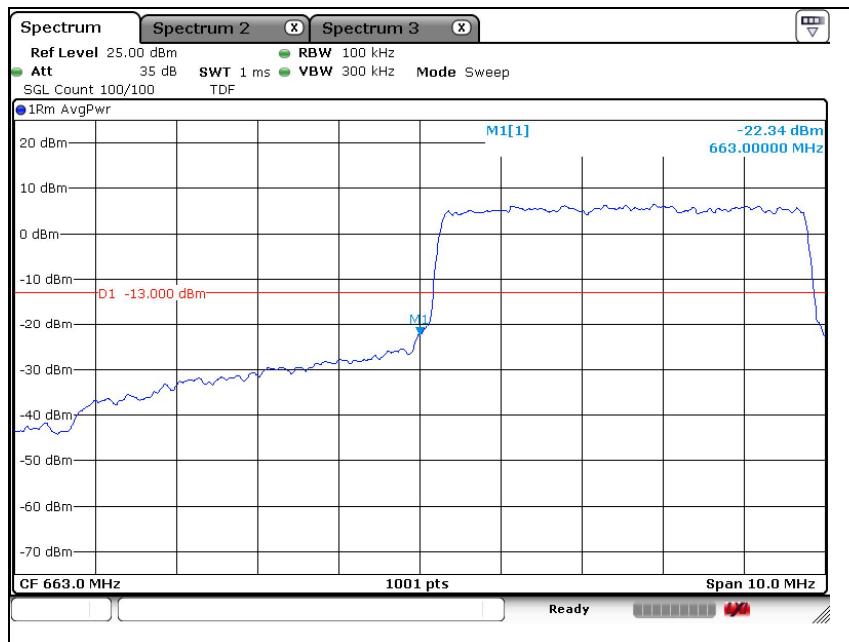
RTT5041-19(2019.04.24)(1)

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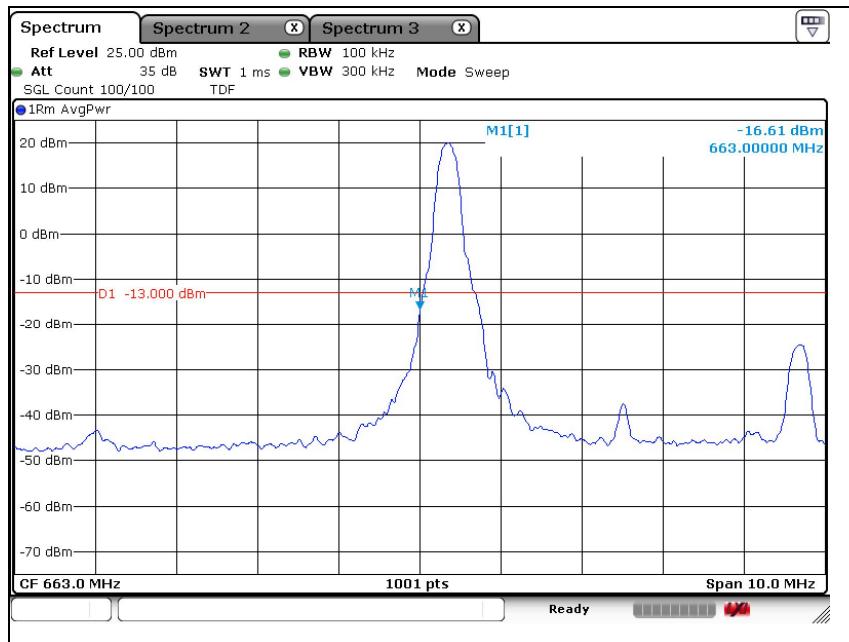
A4(210 mm x 297 mm)

**LTE band 71 (5 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 71 (5 MHz – QPSK\_1 RB)**

Low Channel



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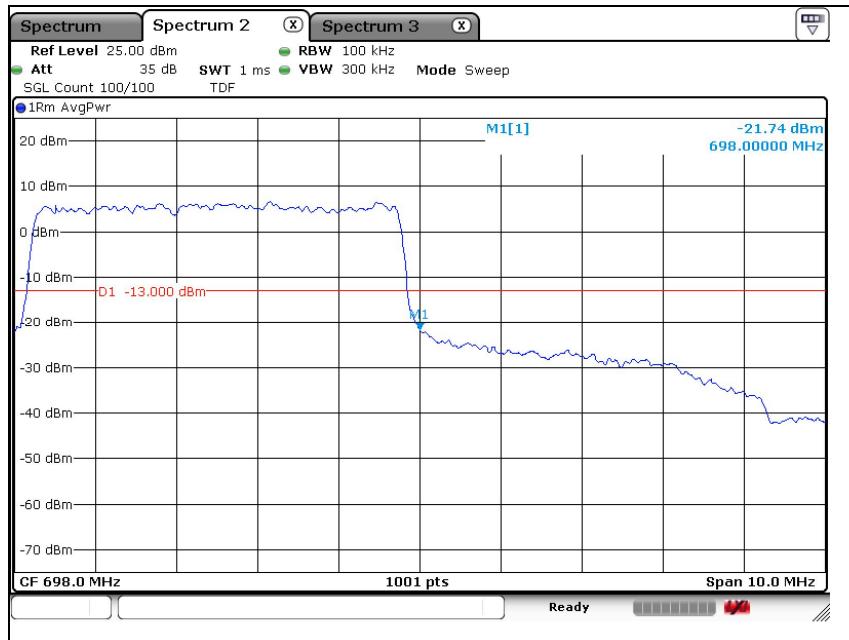
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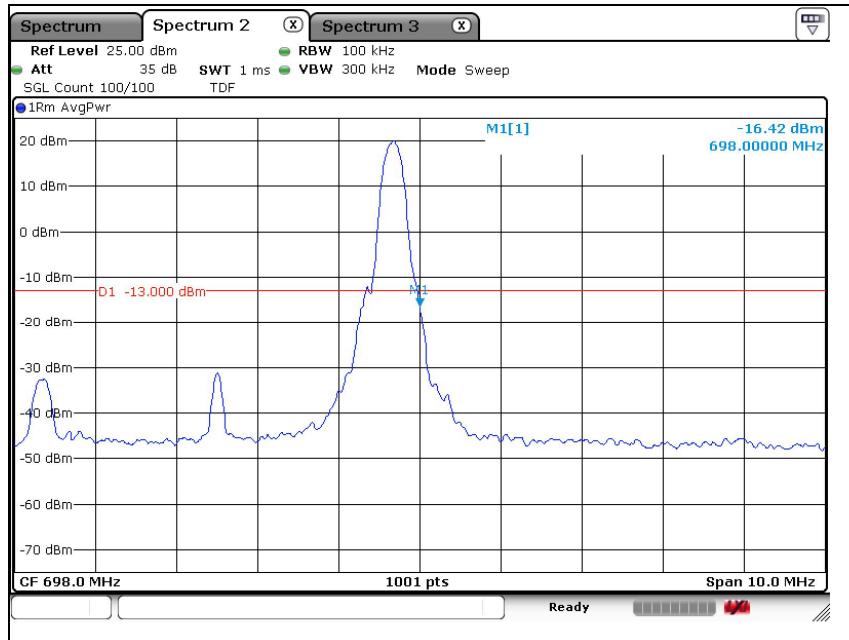
A4(210 mm x 297 mm)

**LTE band 71 (5 MHz – QPSK\_Full RB)**

High Channel

**LTE band 71 (5 MHz – QPSK\_1 RB)**

High Channel

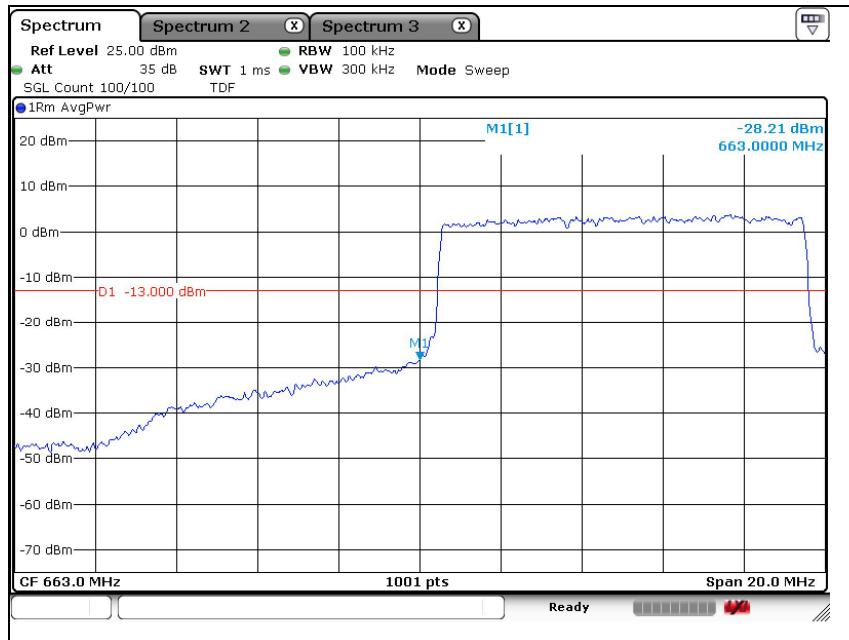


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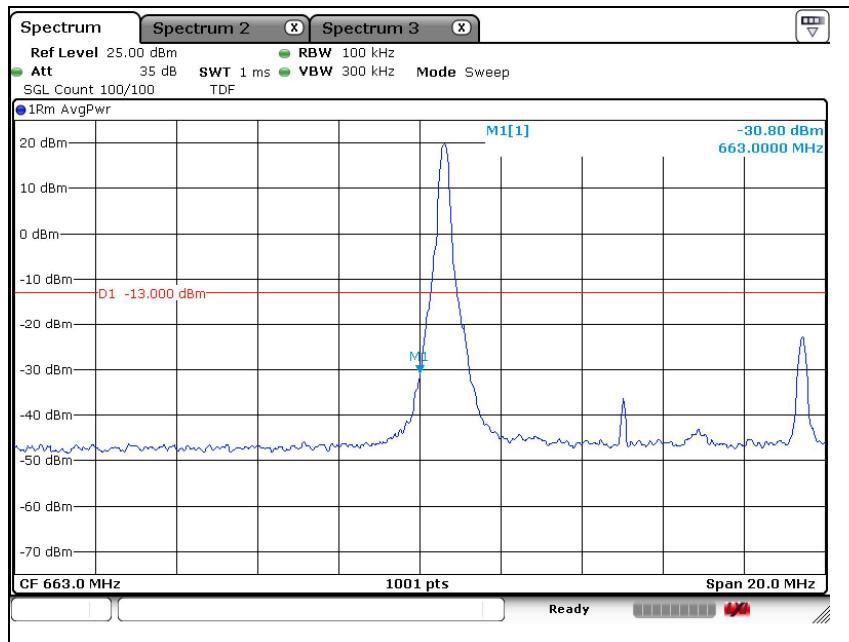
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**LTE band 71 (10 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 71 (10 MHz – QPSK\_1 RB)**

Low Channel



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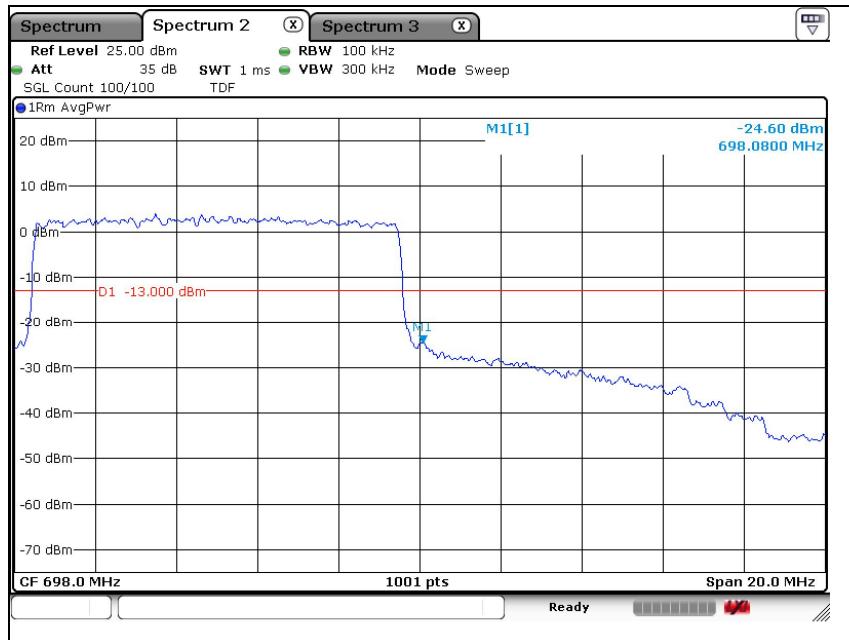
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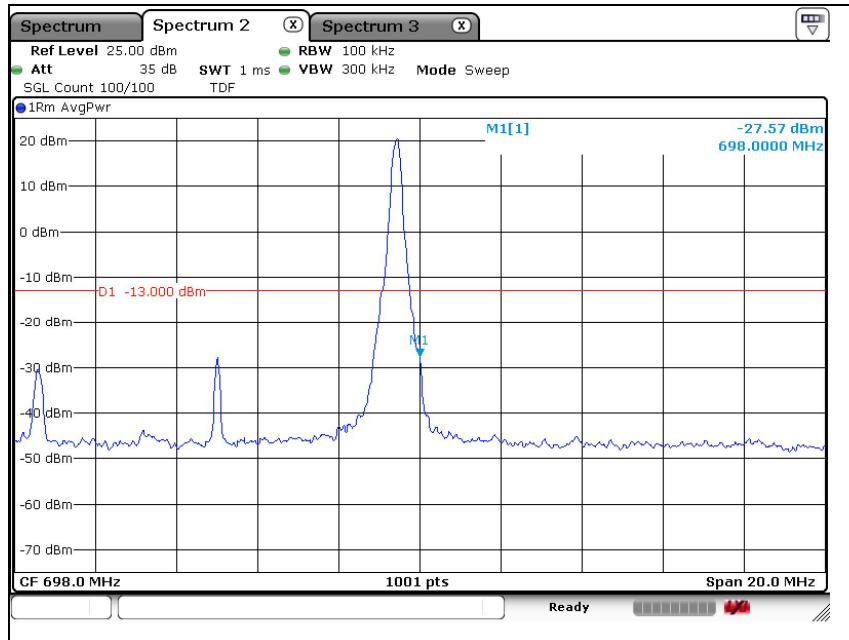
A4(210 mm x 297 mm)

**LTE band 71 (10 MHz – QPSK\_Full RB)**

High Channel

**LTE band 71 (10 MHz – QPSK\_1 RB)**

High Channel

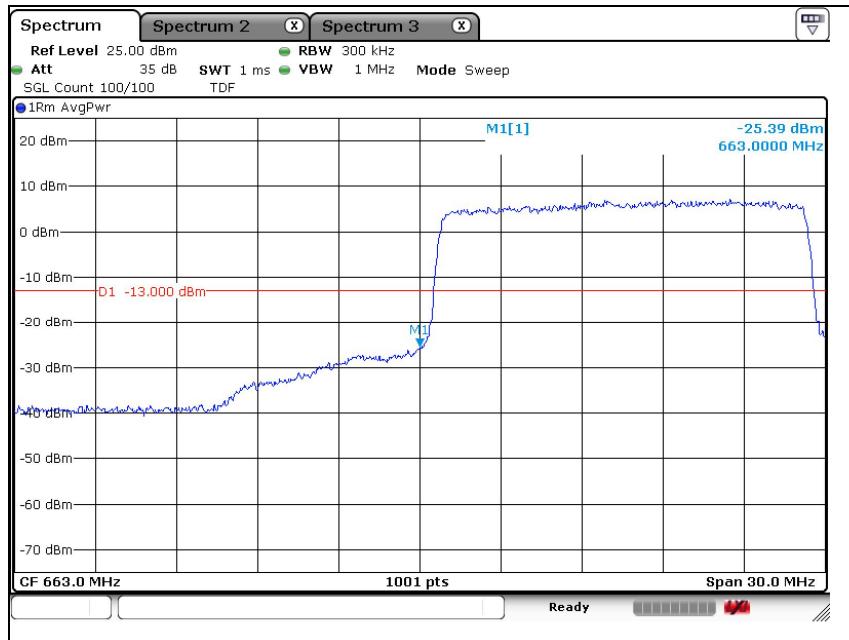


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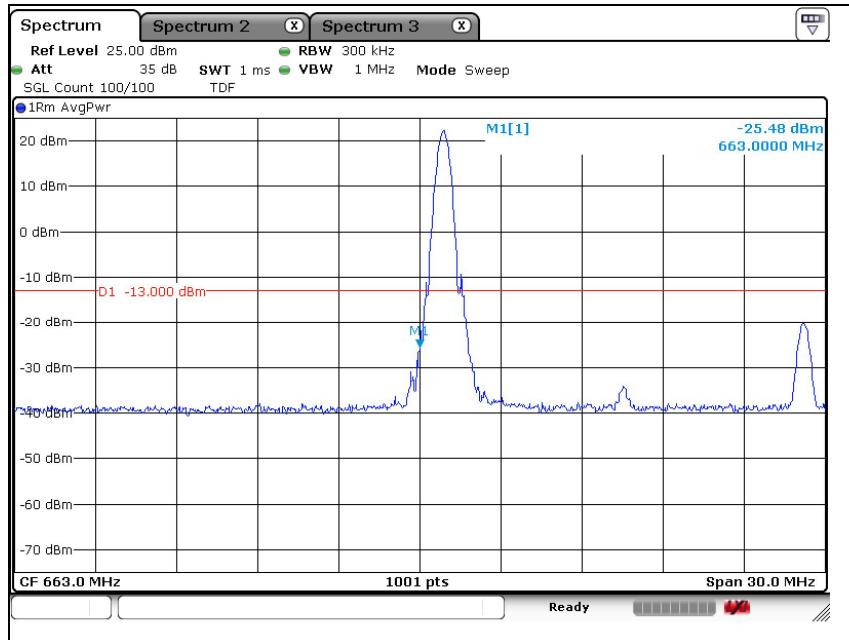
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**LTE band 71 (15 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 71 (15 MHz – QPSK\_1 RB)**

Low Channel



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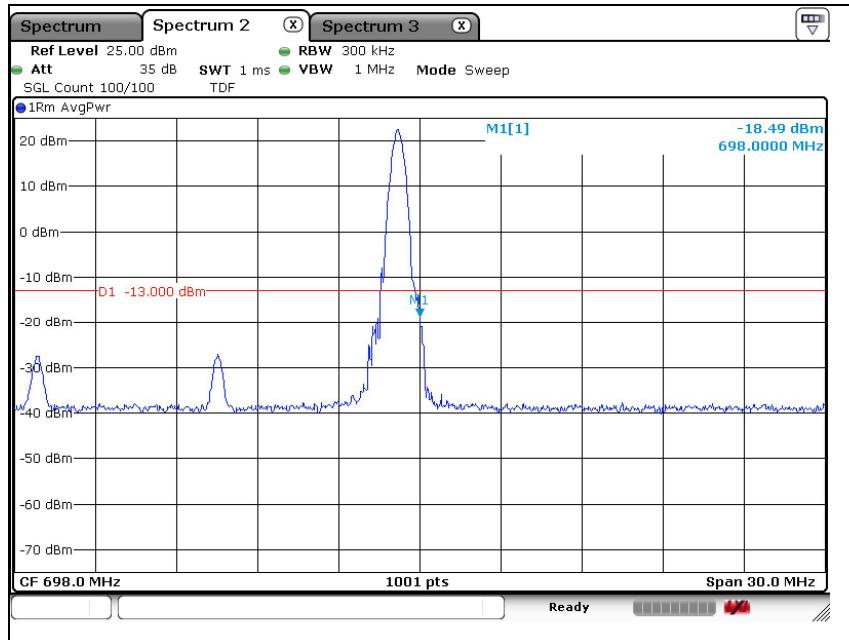
A4(210 mm x 297 mm)

**LTE band 71 (15 MHz – QPSK\_Full RB)**

High Channel

**LTE band 71 (15 MHz – QPSK\_1 RB)**

High Channel



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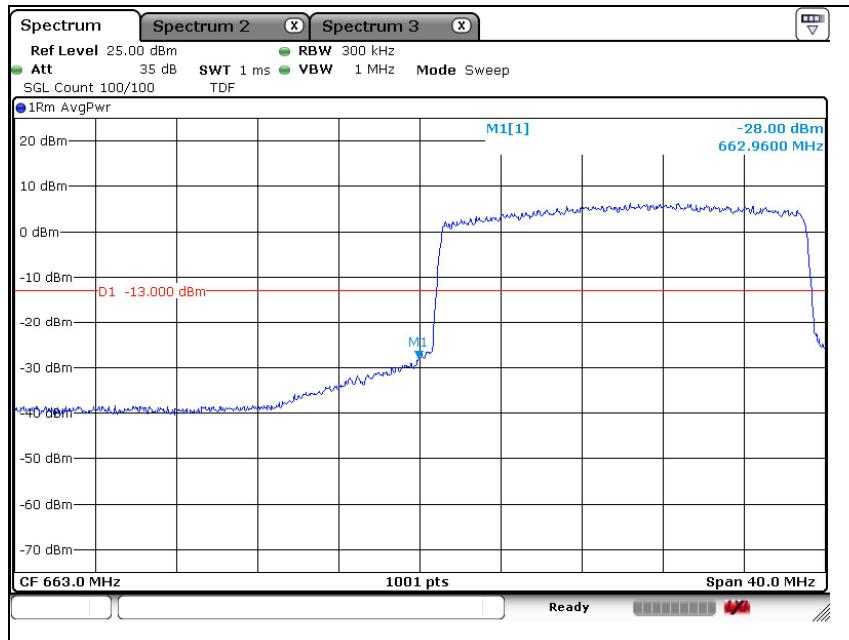
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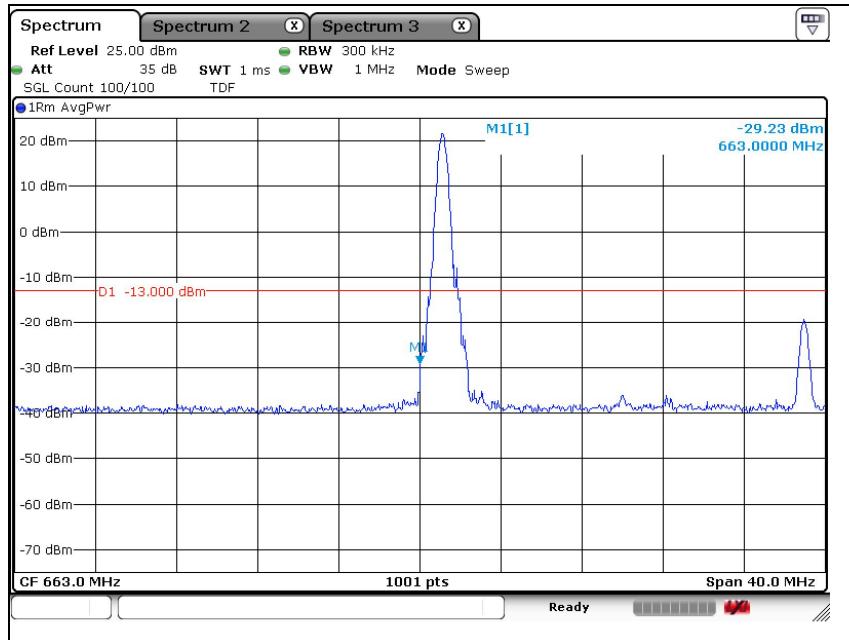
A4(210 mm x 297 mm)

**LTE band 71 (20 MHz – QPSK\_Full RB)**

Low Channel

**LTE band 71 (20 MHz – QPSK\_1 RB)**

Low Channel



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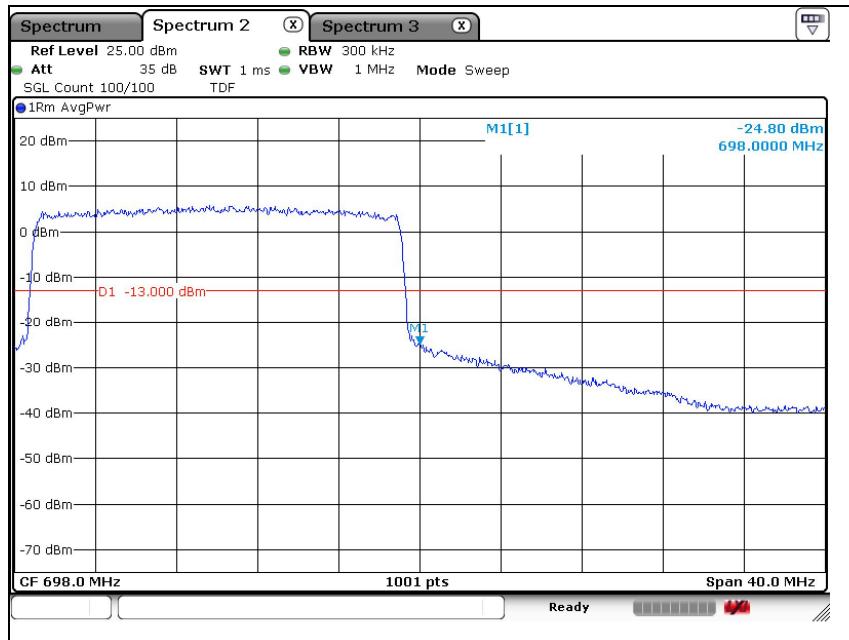
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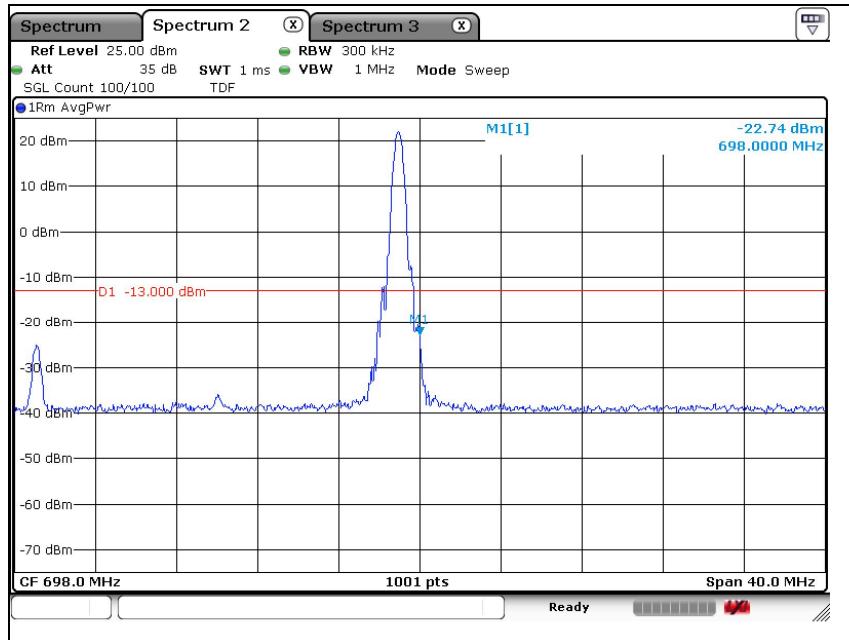
A4(210 mm x 297 mm)

**LTE band 71 (20 MHz – QPSK\_Full RB)**

High Channel

**LTE band 71 (20 MHz – QPSK\_1 RB)**

High Channel



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A4(210 mm x 297 mm)

## 7. Frequency Stability

### 7.1. Limit

- § 2.1055(a), § 2.1055(d) & following:

- §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table of this section.

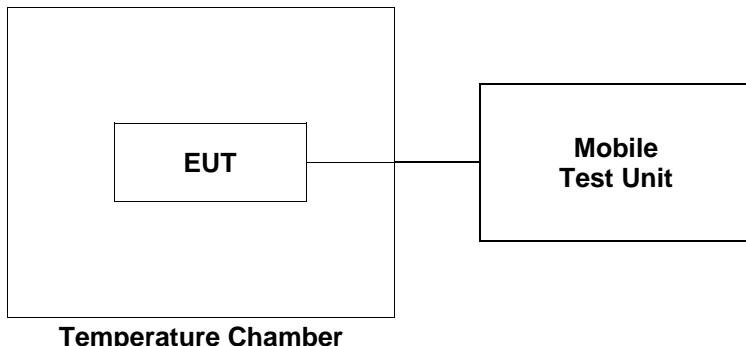
For Mobile devices operating in the 824 to 849 MHz band at a power level less than or equal to 3 Watts, the limit specified in Table C-1 is +/- 2.5 ppm.

- §24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

- §27.54, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### 7.2. Test Procedure

1. Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Mobile Test Unit via feed-through attenuators.
2. The EUT was placed inside the temperature chamber.
3. After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from Mobile Test Unit.



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### 7.3. Test Results

Ambient temperature : (23 ± 1) °C  
Relative humidity : 47 % R.H.

#### LTE band 12 at middle channel

Reference Frequency: 707.5 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V <sub>d.c</sub> )	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	3.8	1	0.001 4
40		-5	-0.007 1
30		2	0.002 8
23		-1	-0.001 4
10		2	0.002 8
0		-1	-0.001 4
-10		3	0.004 2
-20		2	0.002 8
-30		-2	-0.002 8
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V <sub>d.c</sub> )	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
23	4.37	3	0.004 2
	3.23	-3	-0.004 2

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**LTE band 25/2 at middle channel**

<b>Reference Frequency: 1 882.5 MHz</b>			
<b>Frequency Stability versus Temperature</b>			
<b>Environment Temperature (°C)</b>	<b>Power Supplied (V<sub>d.c</sub>)</b>	<b>Frequency Measure with Time Elapse</b>	
		<b>Frequency Error (Hz)</b>	<b>ppm</b>
50	3.8	4	0.005 7
40		-1	-0.001 4
30		-3	-0.004 2
23		5	0.007 1
10		2	0.002 8
0		-4	-0.005 7
-10		-3	-0.004 2
-20		5	0.007 1
-30		-2	-0.002 8
<b>Frequency Stability versus Power Supply</b>			
<b>Environment Temperature (°C)</b>	<b>Power Supplied (V<sub>d.c</sub>)</b>	<b>Frequency Measure with Time Elapse</b>	
		<b>Frequency Error (Hz)</b>	<b>ppm</b>
23	4.37	-3	-0.004 2
	3.23	4	0.005 7

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**LTE band 26/5 at middle channel**

<b>Reference Frequency: 836.5 MHz</b>			
<b>Frequency Stability versus Temperature</b>			
<b>Environment Temperature (°C)</b>	<b>Power Supplied (V<sub>d.c</sub>)</b>	<b>Frequency Measure with Time Elapse</b>	
		<b>Frequency Error (Hz)</b>	<b>ppm</b>
50	3.8	2	0.002 4
40		-1	-0.001 2
30		-4	-0.004 8
23		3	0.003 6
10		-2	-0.002 4
0		4	0.004 8
-10		5	0.006 0
-20		2	0.002 4
-30		-2	-0.002 4
<b>Frequency Stability versus Power Supply</b>			
<b>Environment Temperature (°C)</b>	<b>Power Supplied (V<sub>d.c</sub>)</b>	<b>Frequency Measure with Time Elapse</b>	
		<b>Frequency Error (Hz)</b>	<b>ppm</b>
23	4.37	-3	-0.003 6
	3.23	-1	-0.001 2

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**LTE band 41 at middle channel**

Reference Frequency: 2593.0 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V <sub>d.c</sub> )	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	3.8	2	0.000 8
40		4	0.001 5
30		-2	-0.000 8
23		-2	-0.000 8
10		4	0.001 5
0		3	0.001 2
-10		1	0.000 4
-20		-5	-0.001 9
-30		1	0.000 4
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V <sub>d.c</sub> )	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
23	4.37	2	0.000 8
	3.23	-4	-0.001 5

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**LTE band 66/4 at middle channel**

<b>Reference Frequency: 1745.0 MHz</b>			
<b>Frequency Stability versus Temperature</b>			
<b>Environment Temperature (°C)</b>	<b>Power Supplied (V<sub>d.c</sub>)</b>	<b>Frequency Measure with Time Elapse</b>	
		<b>Frequency Error (Hz)</b>	<b>ppm</b>
50	3.8	-3	-0.001 7
40		-2	-0.001 1
30		5	0.002 9
23		1	0.000 6
10		-4	-0.002 3
0		2	0.001 1
-10		-2	-0.001 1
-20		4	0.002 3
-30		1	0.000 6
<b>Frequency Stability versus Power Supply</b>			
<b>Environment Temperature (°C)</b>	<b>Power Supplied (V<sub>d.c</sub>)</b>	<b>Frequency Measure with Time Elapse</b>	
		<b>Frequency Error (Hz)</b>	<b>ppm</b>
23	4.37	4	0.002 3
	3.23	1	0.000 6

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**LTE band 71 at middle channel**

<b>Reference Frequency: 680.5 MHz</b>			
<b>Frequency Stability versus Temperature</b>			
<b>Environment Temperature (°C)</b>	<b>Power Supplied (V<sub>d.c</sub>)</b>	<b>Frequency Measure with Time Elapse</b>	
		<b>Frequency Error (Hz)</b>	<b>ppm</b>
50	3.8	-3	-0.004 4
40		4	0.005 9
30		2	0.002 9
23		-2	-0.002 9
10		-1	-0.001 5
0		4	0.005 9
-10		2	0.002 9
-20		-3	-0.004 4
-30		3	0.004 4
<b>Frequency Stability versus Power Supply</b>			
<b>Environment Temperature (°C)</b>	<b>Power Supplied (V<sub>d.c</sub>)</b>	<b>Frequency Measure with Time Elapse</b>	
		<b>Frequency Error (Hz)</b>	<b>ppm</b>
23	4.37	3	0.004 4
	3.23	-2	-0.002 9

**- End of the Test Report -**

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