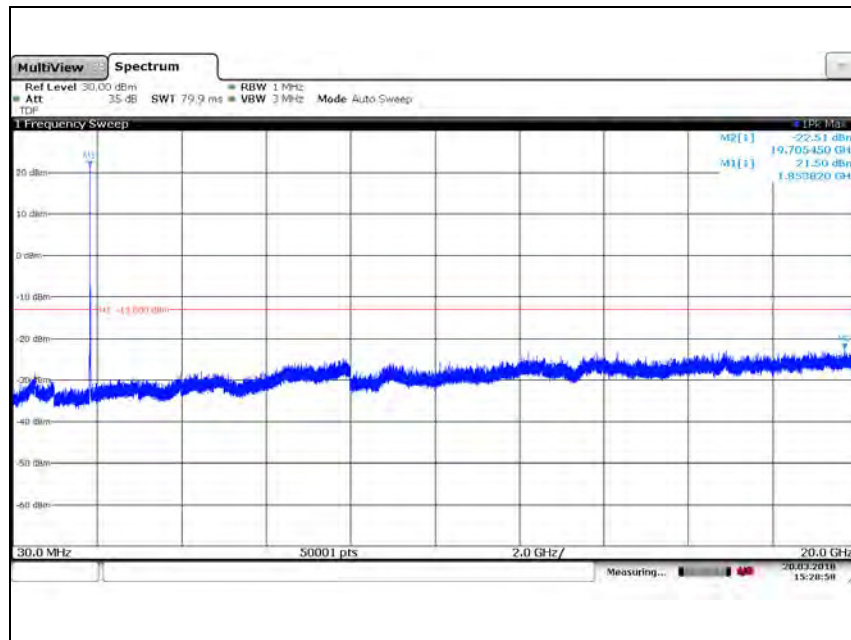
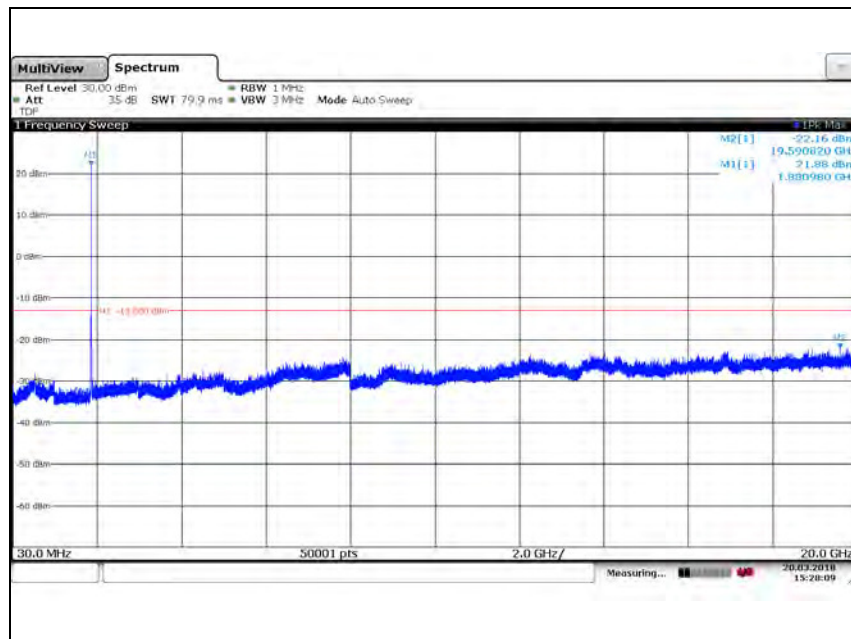


LTE band 2 (5 MHz - QPSK)

Low Channel

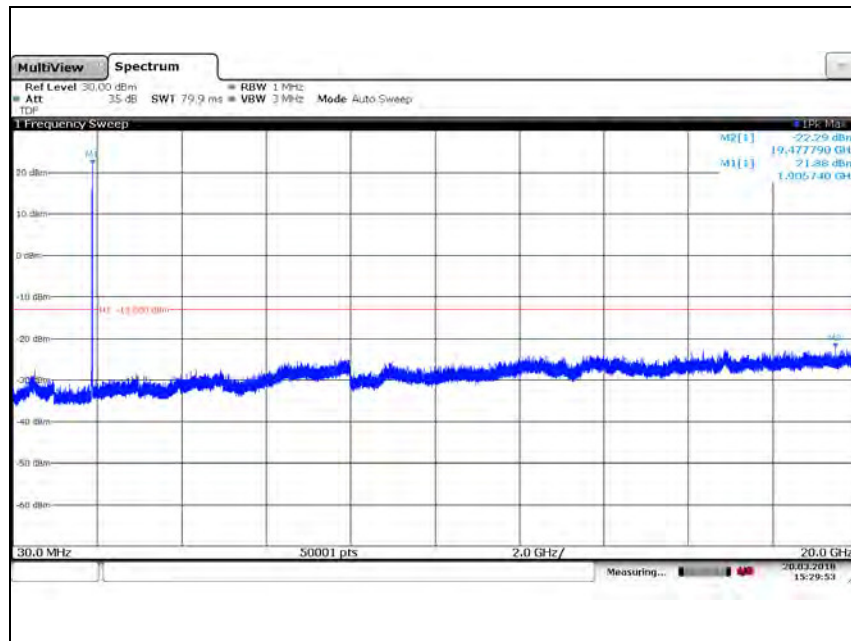


Middle Channel



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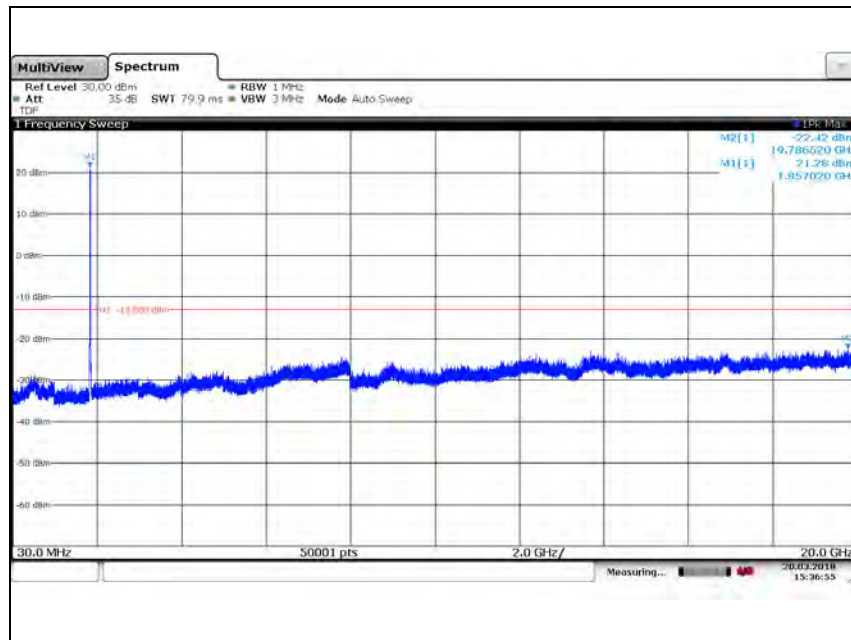
High Channel



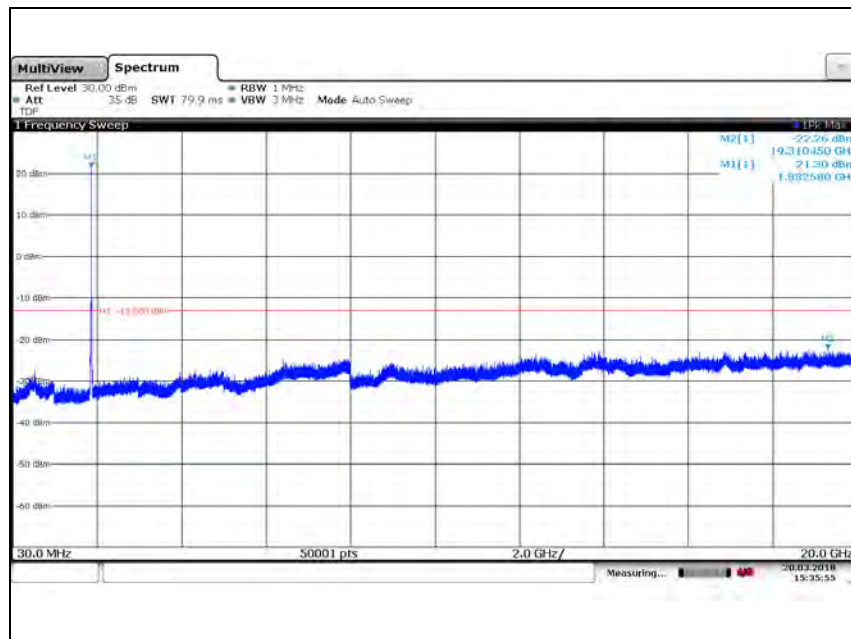
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 2 (10 MHz - QPSK)

Low Channel

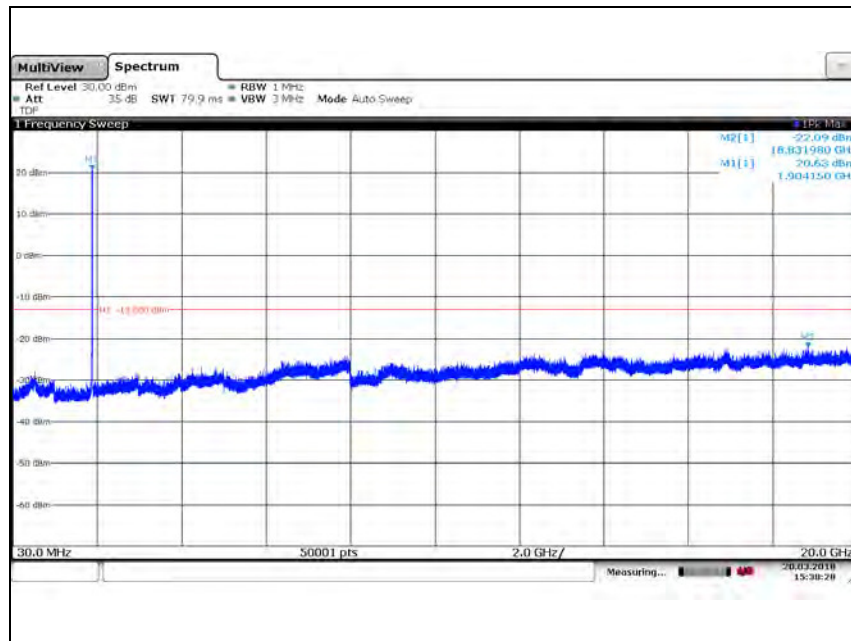


Middle Channel



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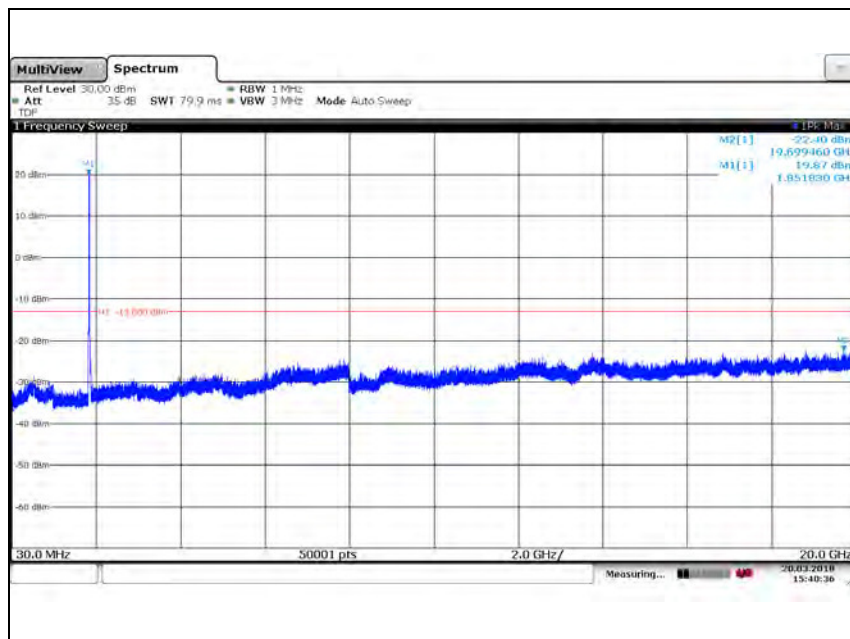
High Channel



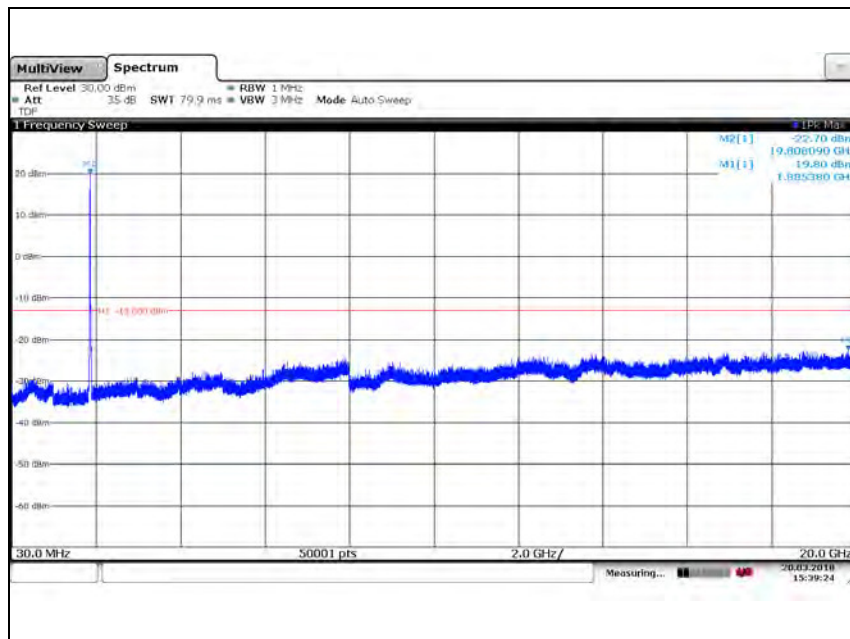
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 2 (15 MHz - QPSK)

Low Channel

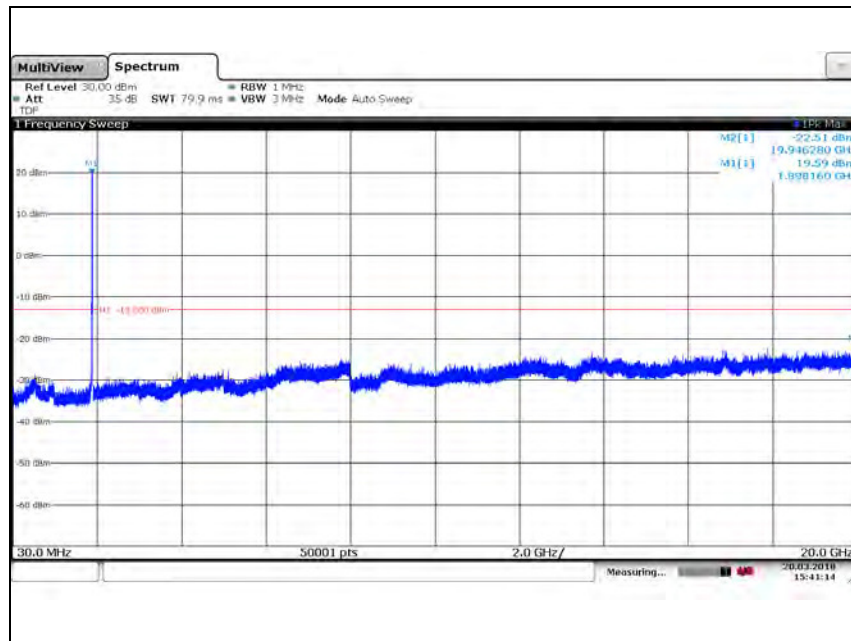


Middle Channel



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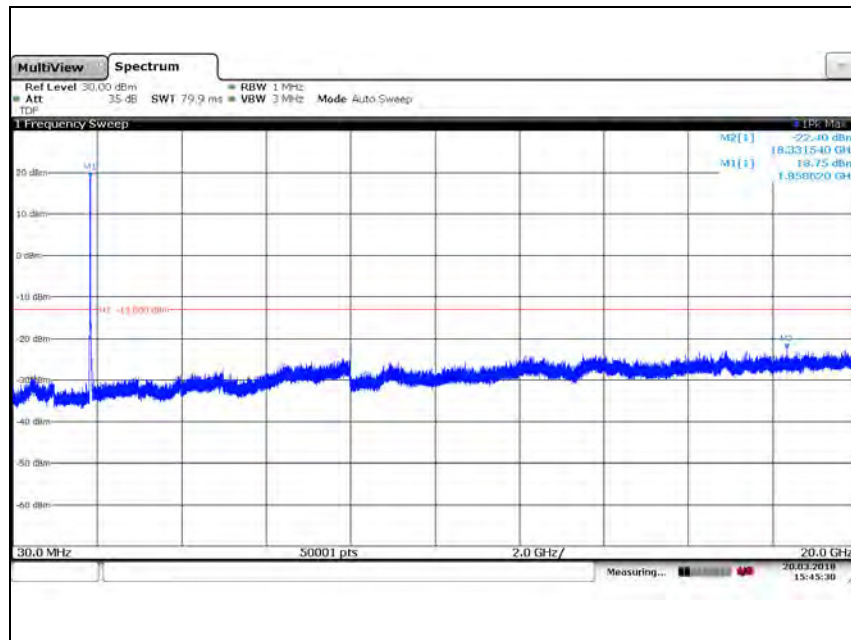
High Channel



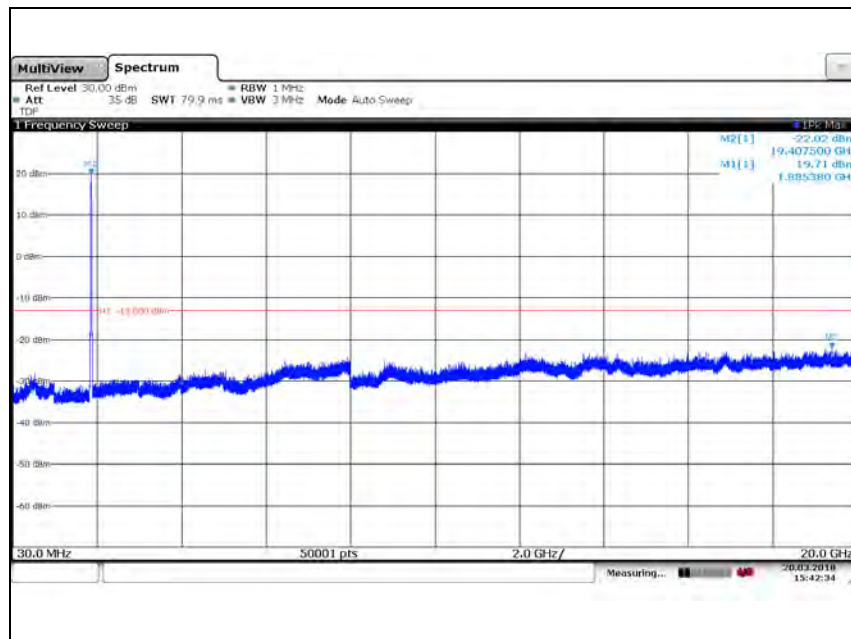
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 2 (20 MHz - QPSK)

Low Channel

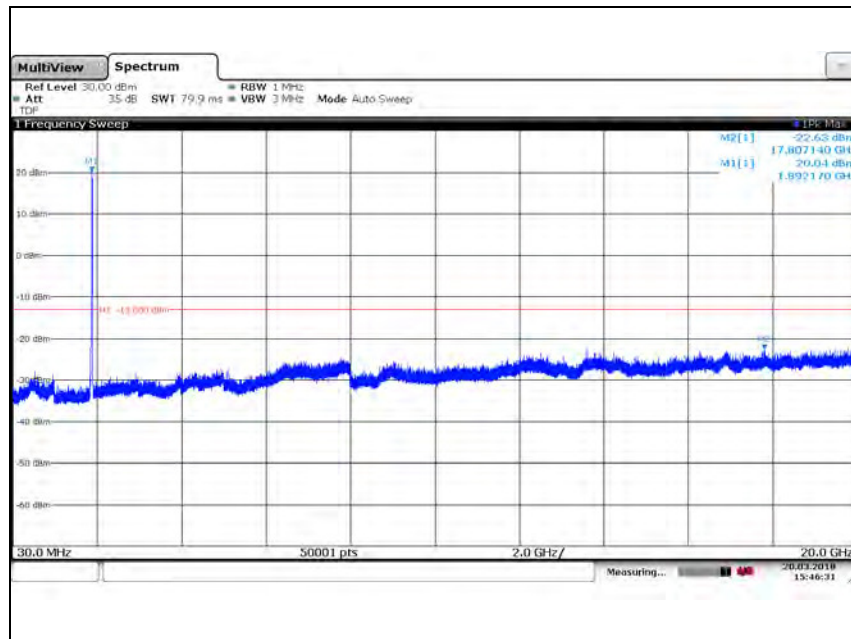


Middle Channel



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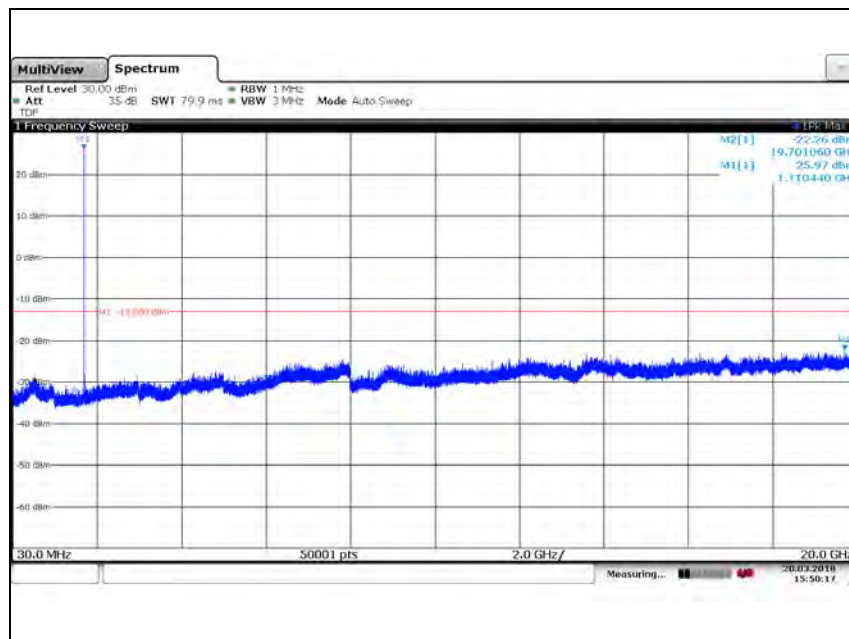
High Channel



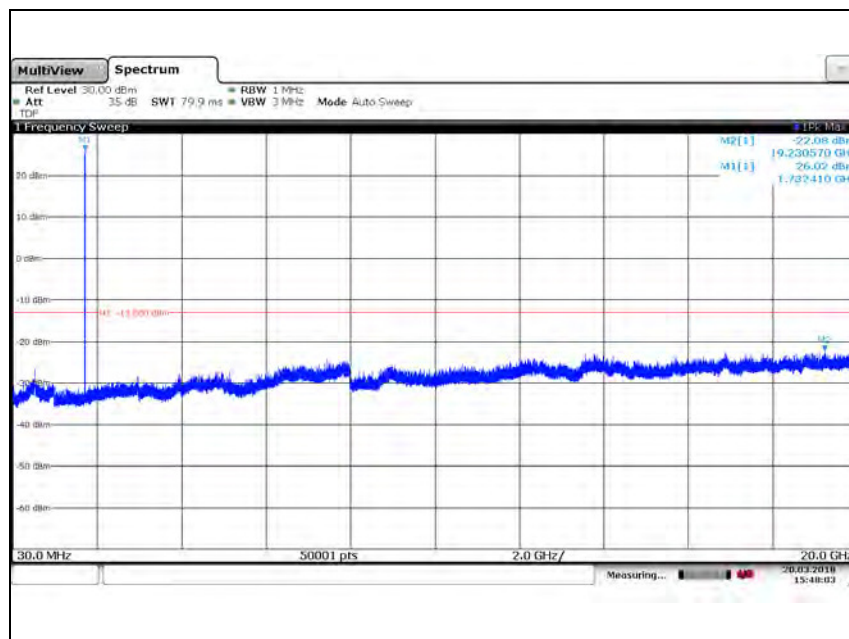
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 4 (1.4 MHz - QPSK)

Low Channel

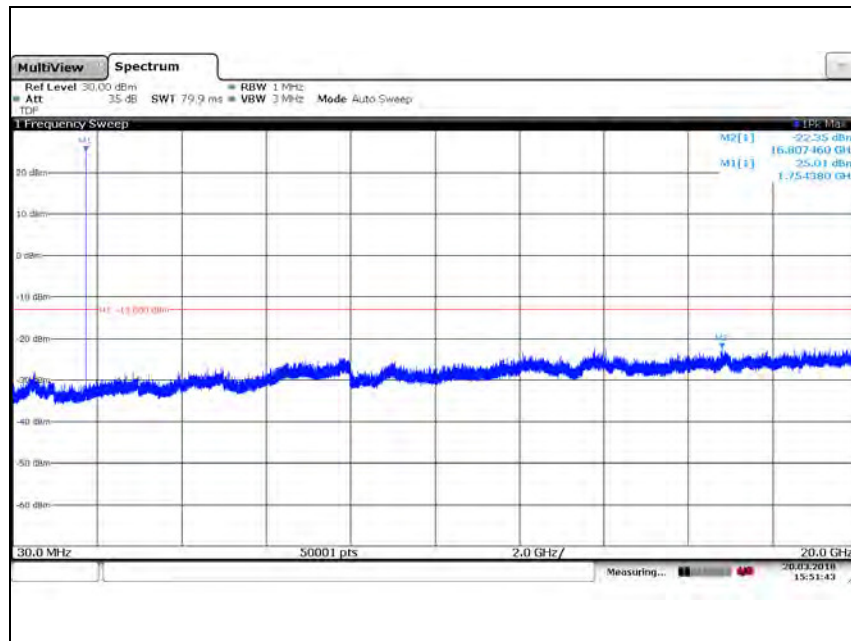


Middle Channel



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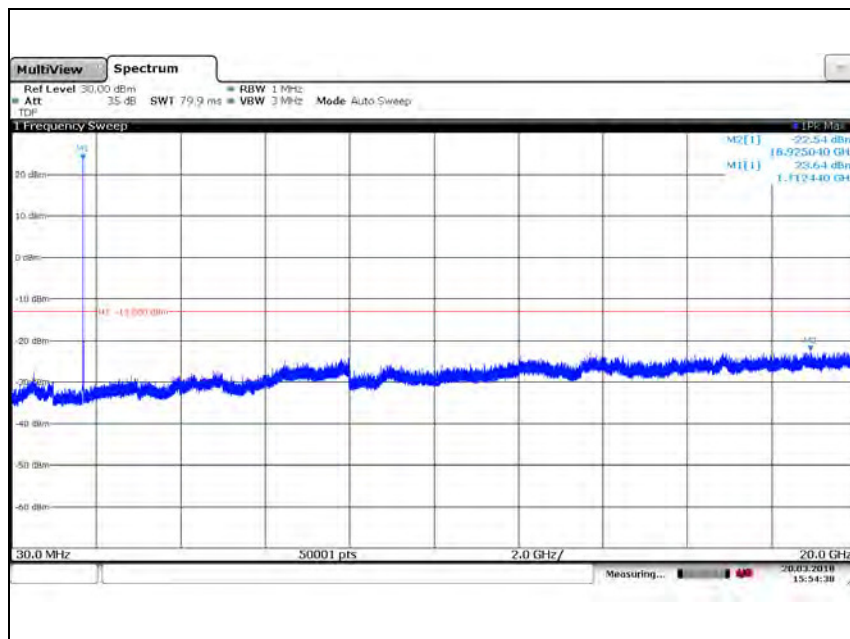
High Channel



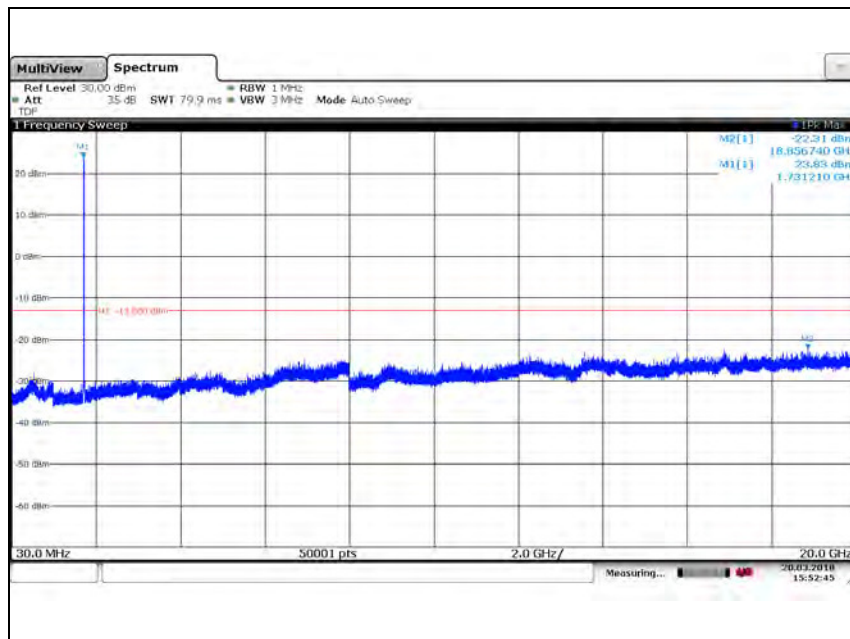
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 4 (3 MHz - QPSK)

Low Channel

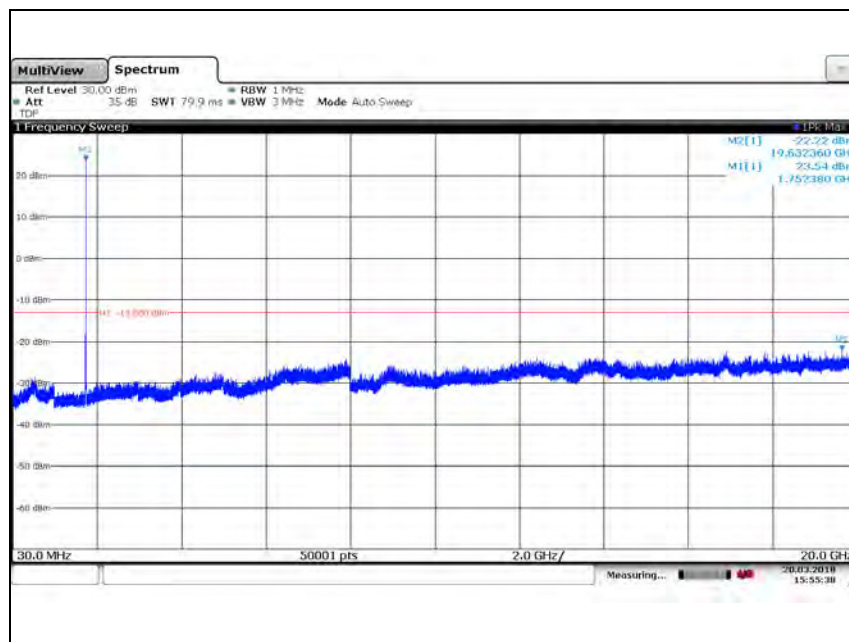


Middle Channel



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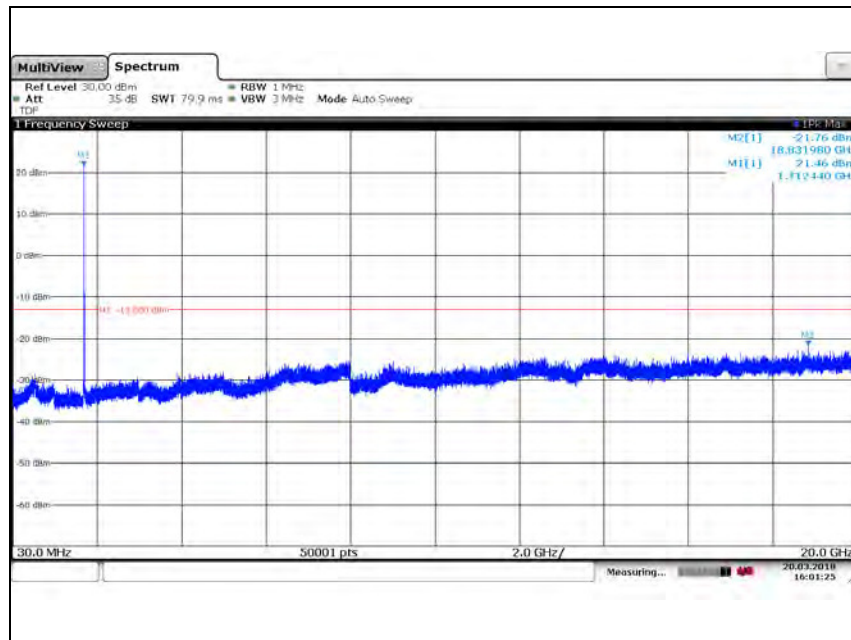
High Channel



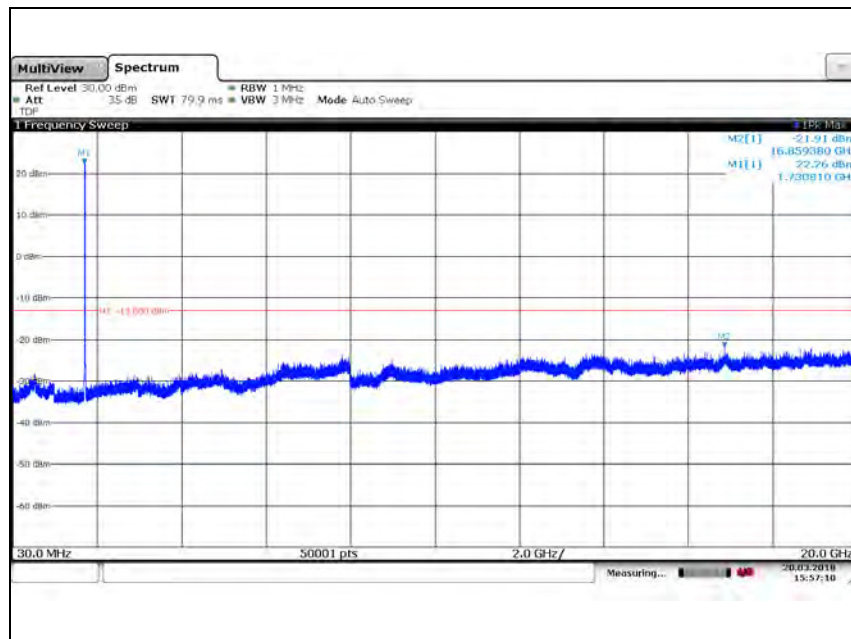
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 4 (5 MHz - QPSK)

Low Channel

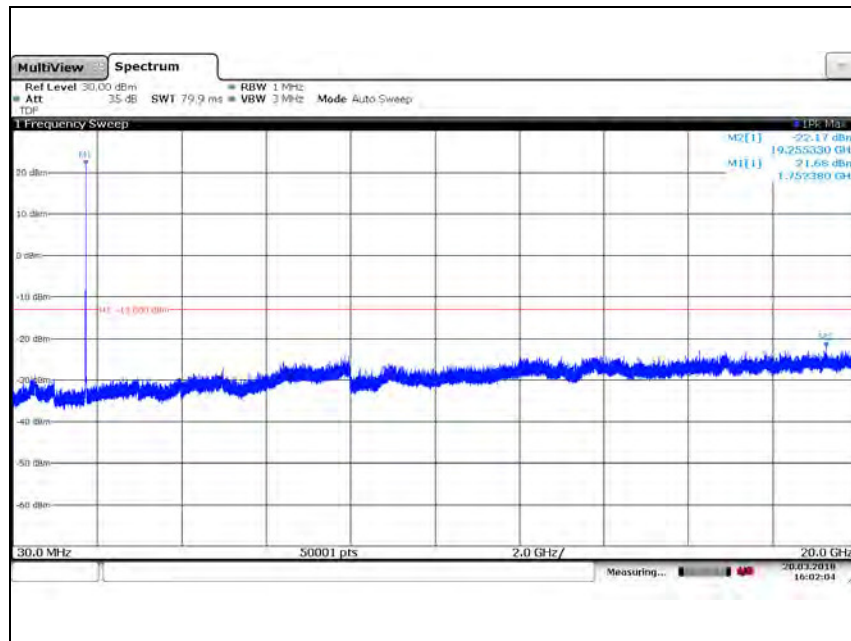


Middle Channel



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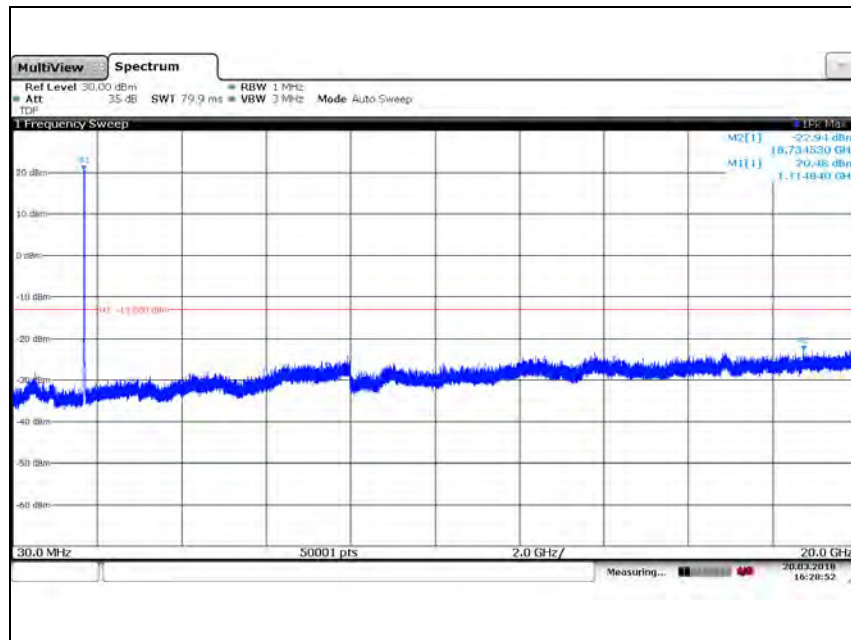
High Channel



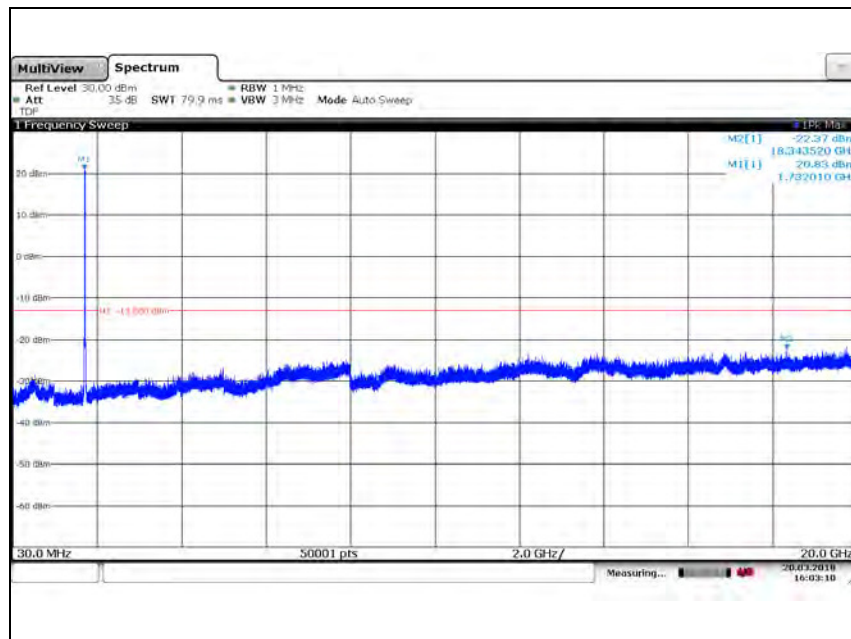
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 4 (10 MHz - QPSK)

Low Channel

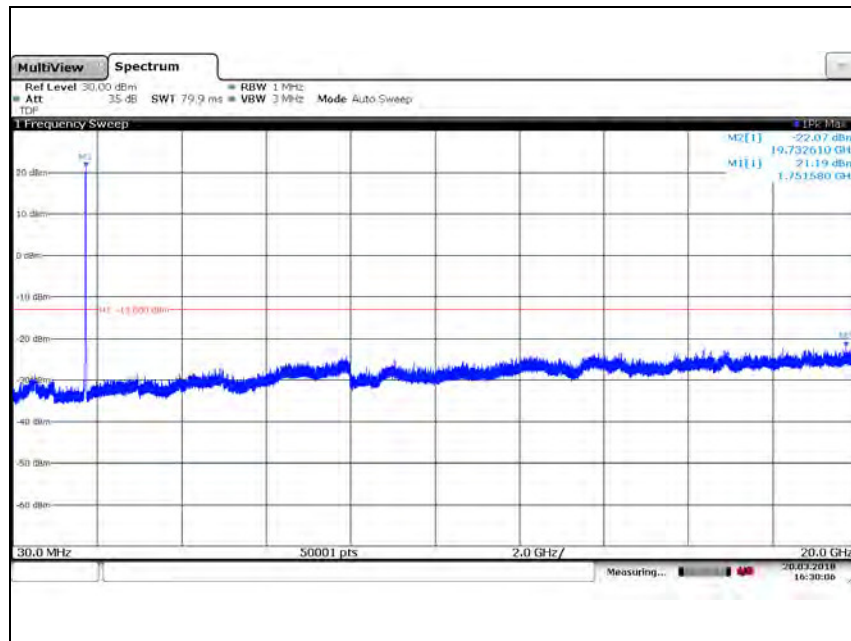


Middle Channel



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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>

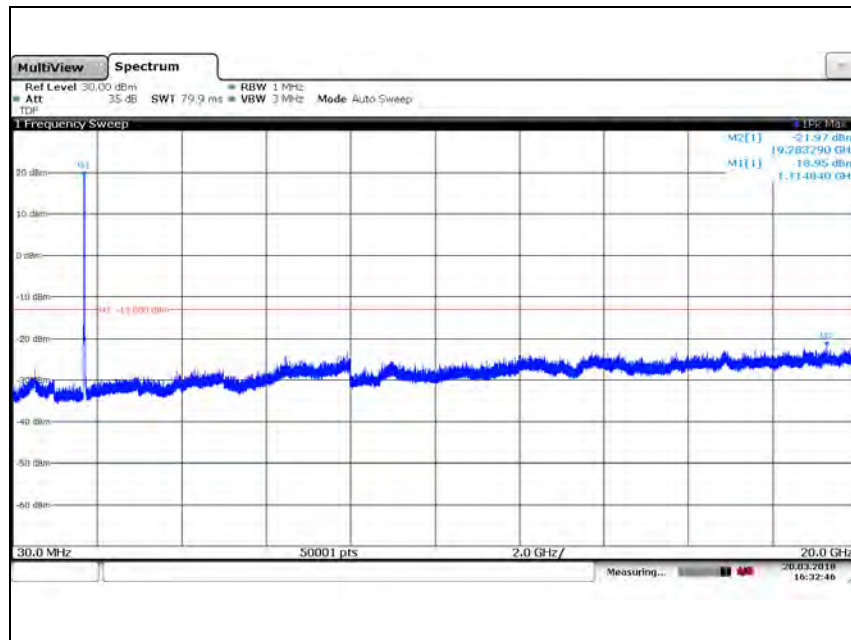
RTT5041-19(2017.07.10)(0)

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

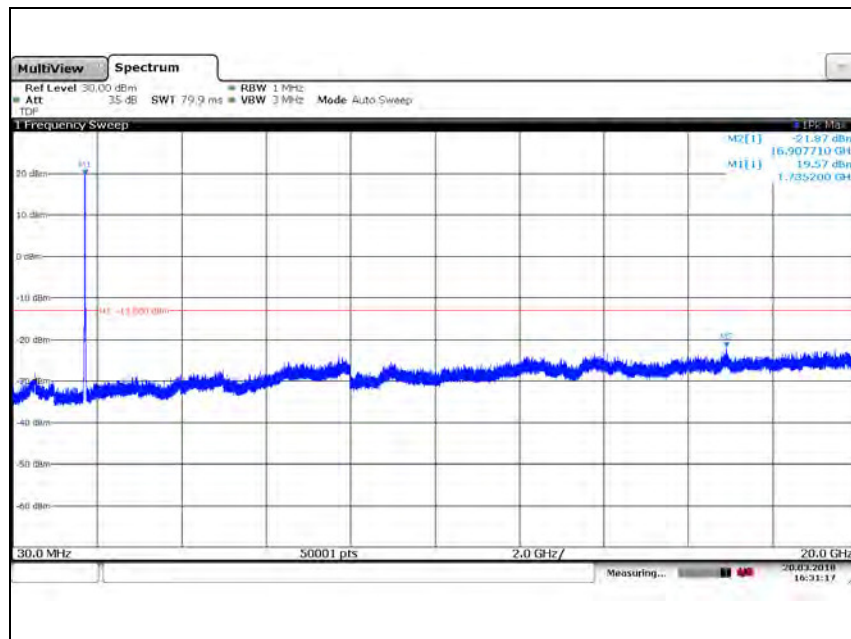
A4(210 mm x 297 mm)

LTE band 4 (15 MHz - QPSK)

Low Channel

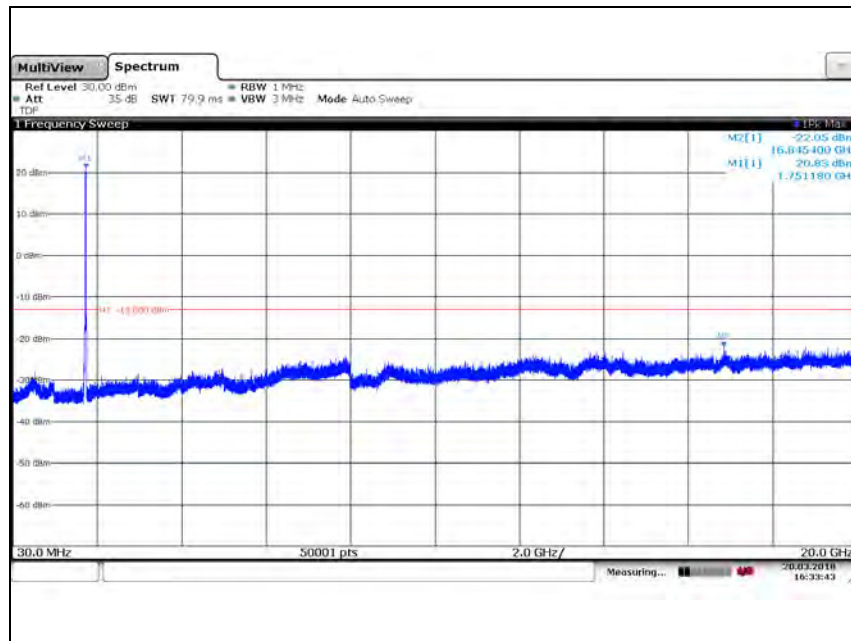


Middle Channel



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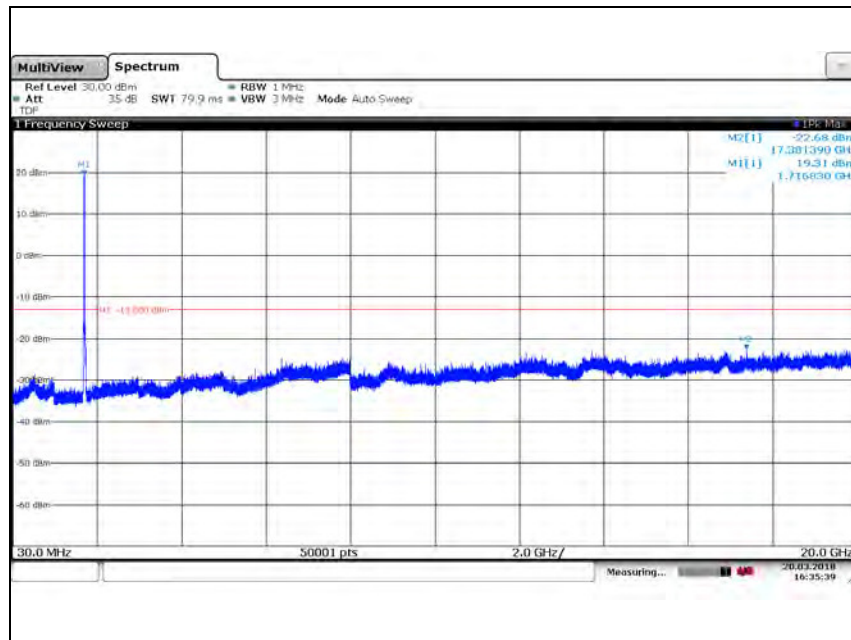
High Channel



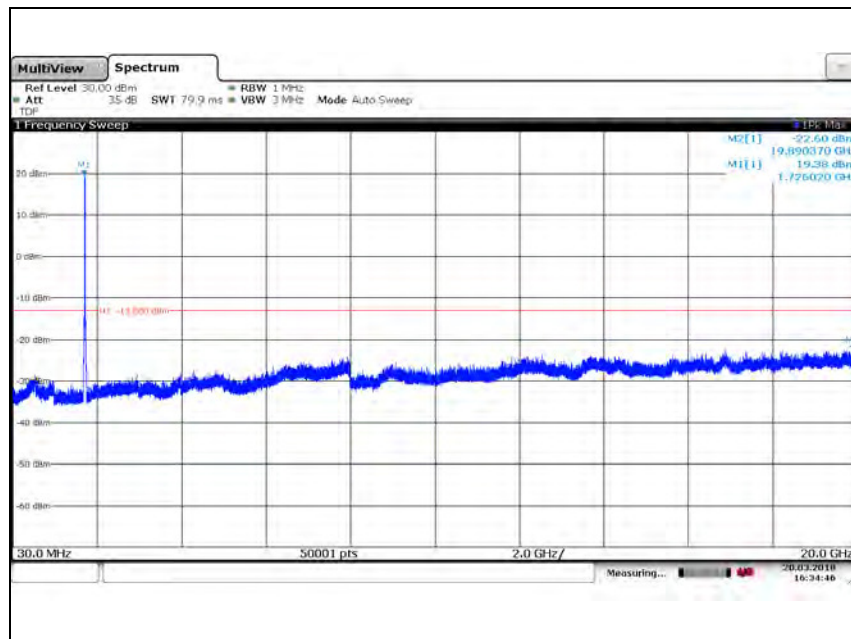
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 4 (20 MHz - QPSK)

Low Channel

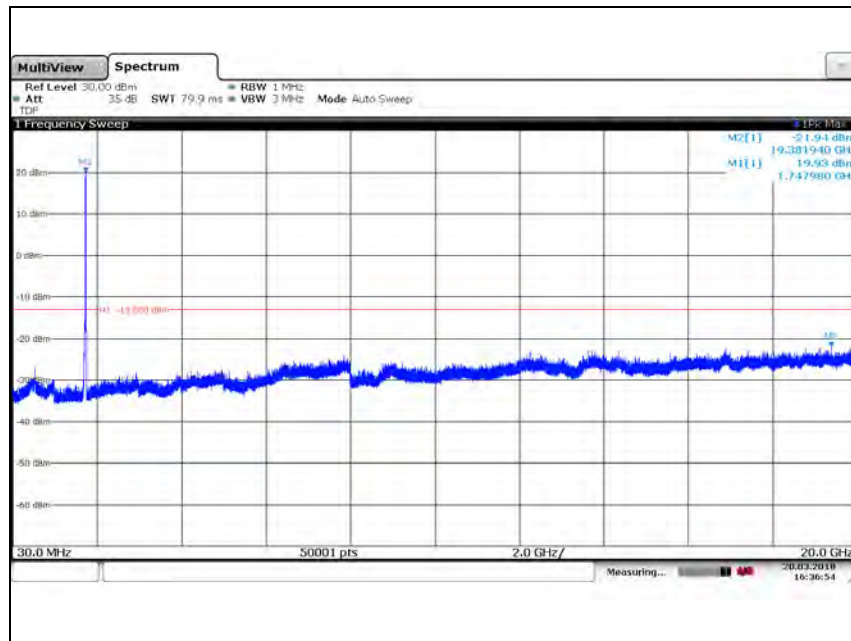


Middle Channel



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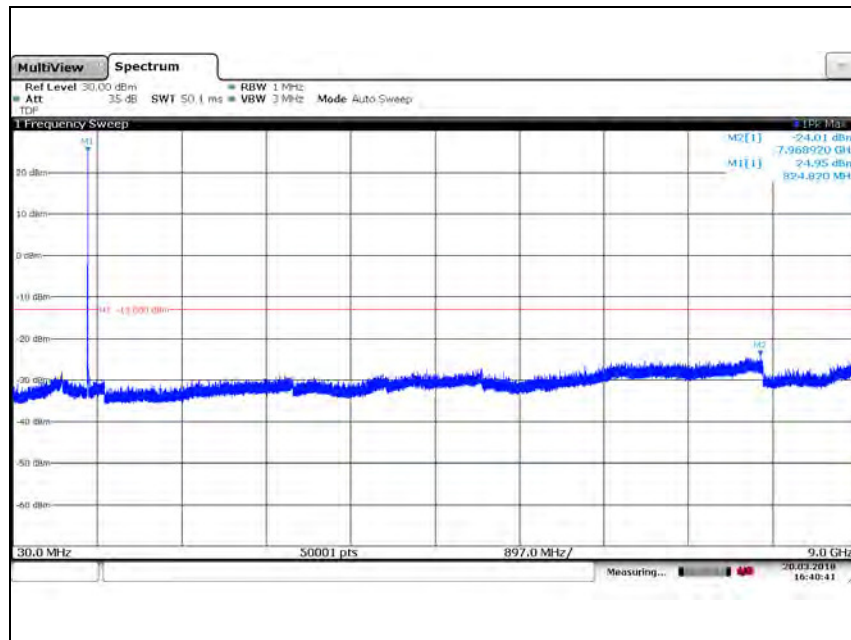
High Channel



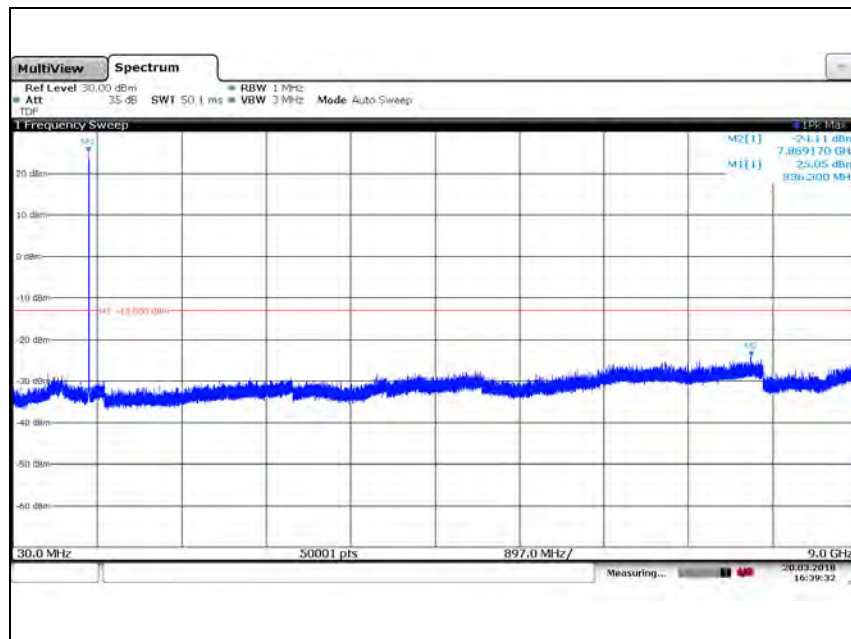
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 5 (1.4 MHz - QPSK)

Low Channel

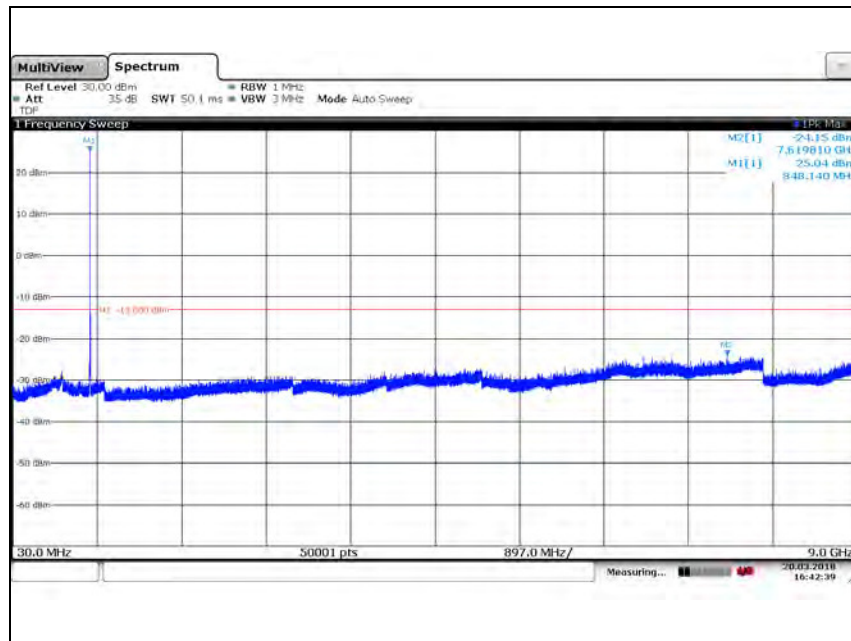


Middle Channel



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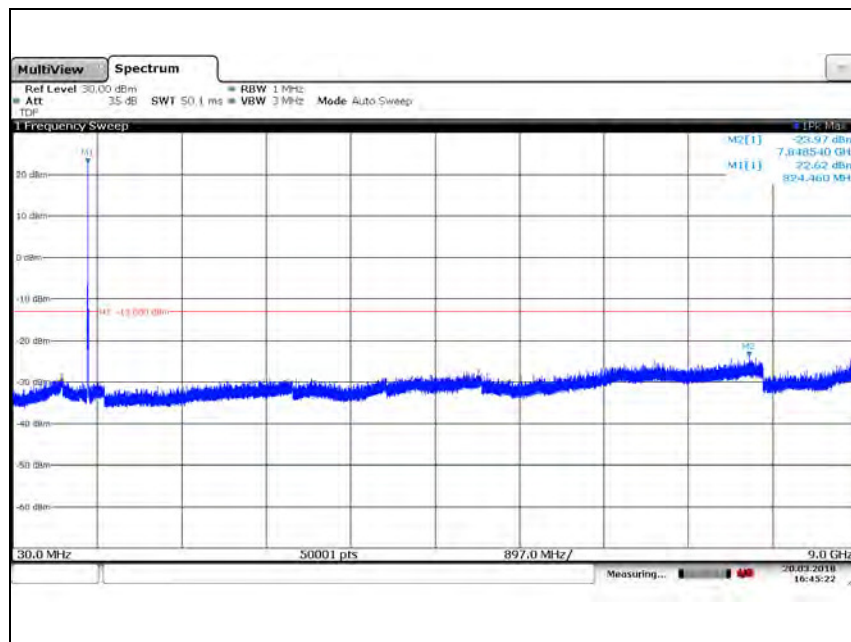
High Channel



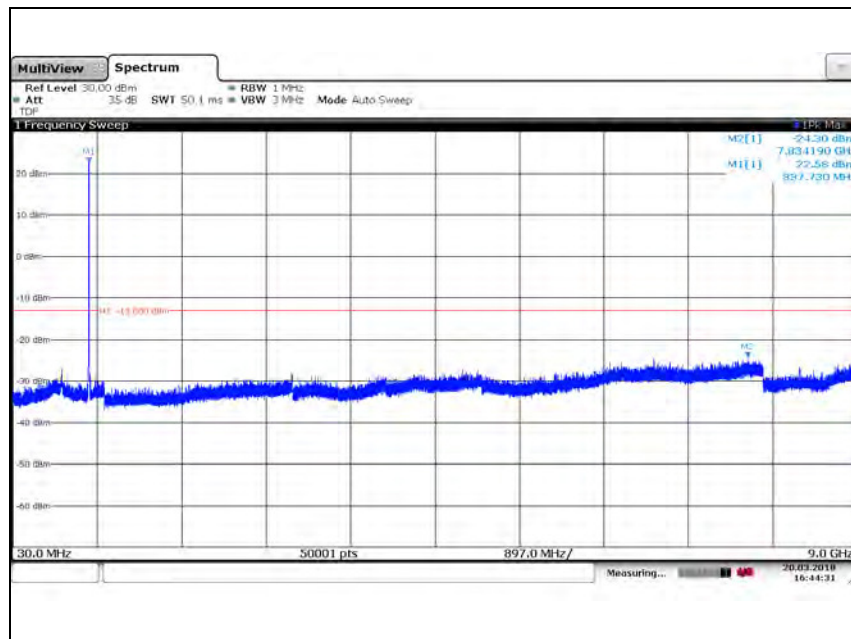
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 5 (3 MHz - QPSK)

Low Channel

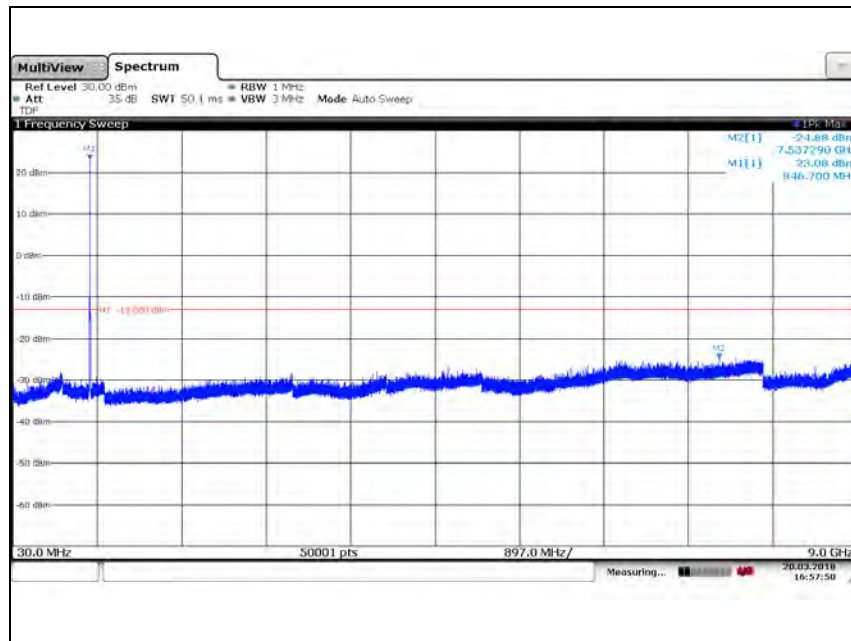


Middle Channel



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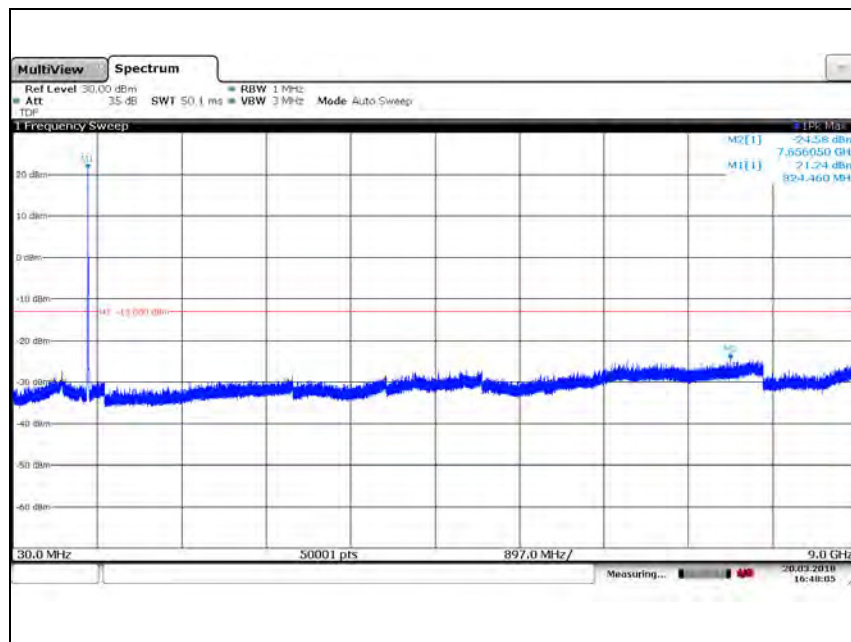
High Channel



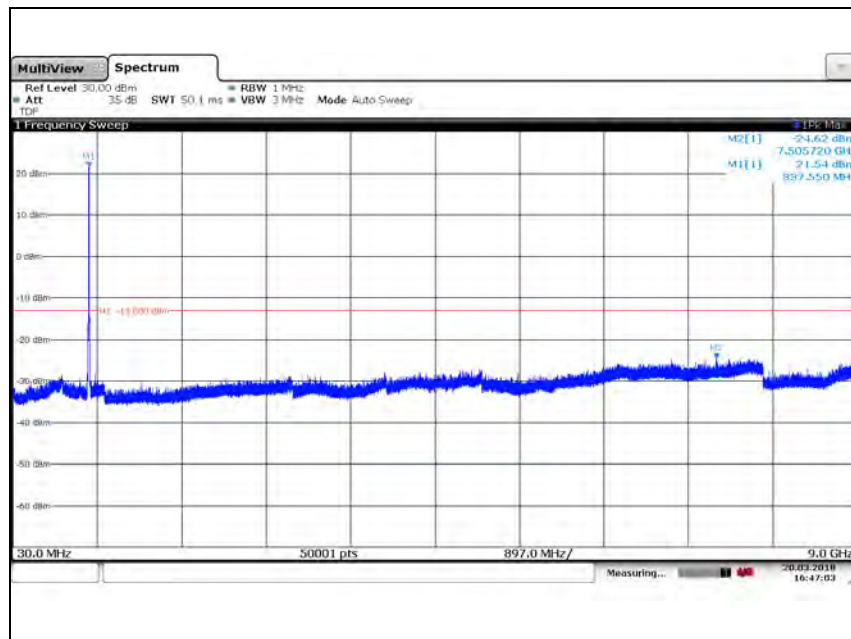
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 5 (5 MHz - QPSK)

Low Channel

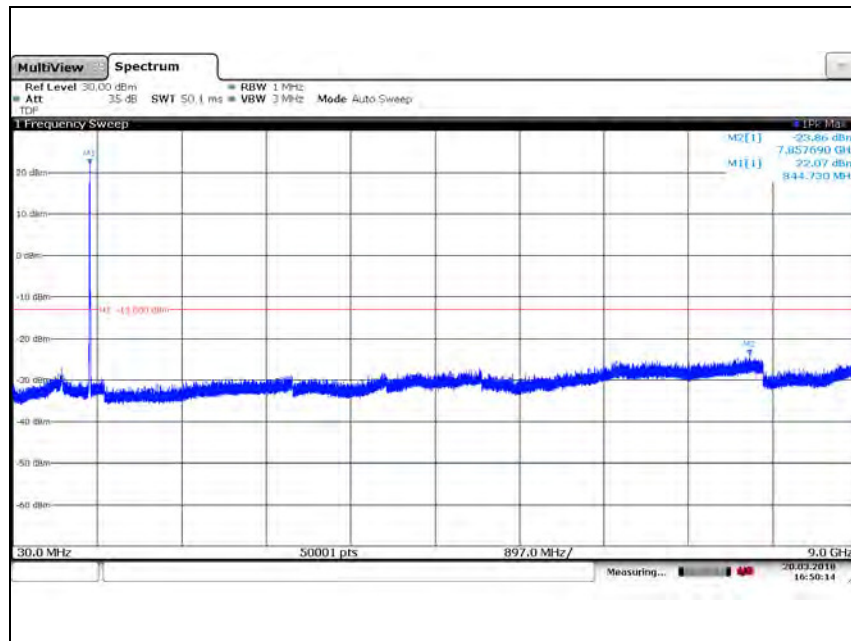


Middle Channel



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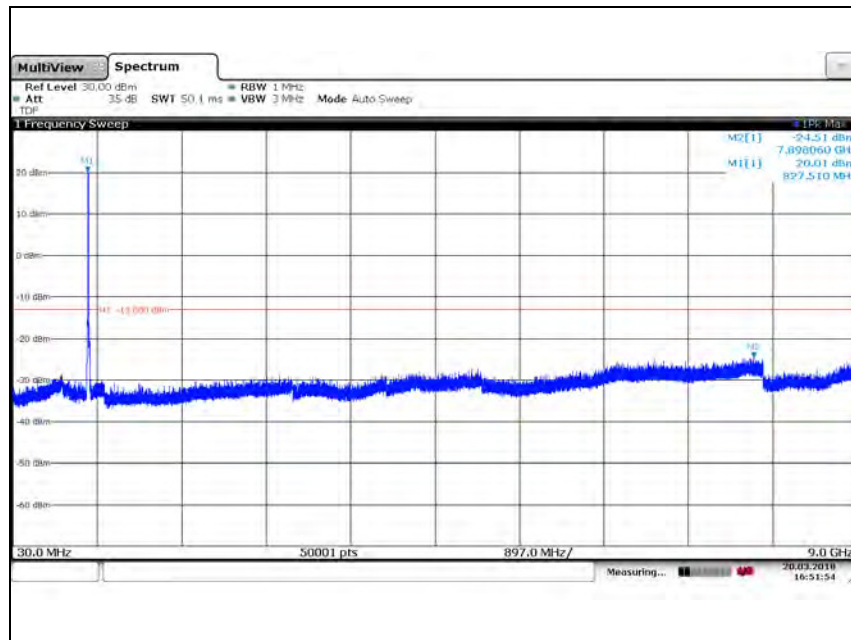
High Channel



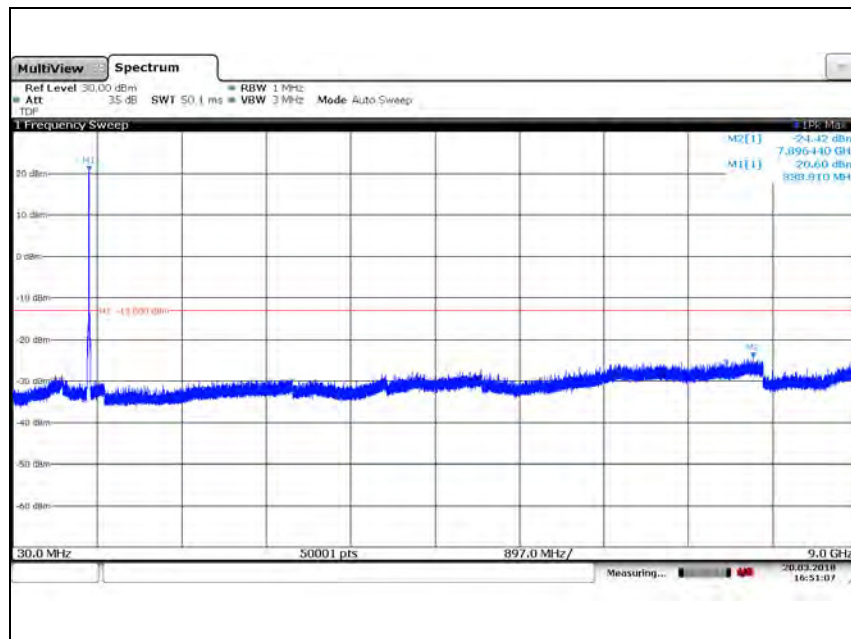
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 5 (10 MHz - QPSK)

Low Channel



Middle Channel



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A4(210 mm x 297 mm)

7. Band Edge

7.1. Limit

- §22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

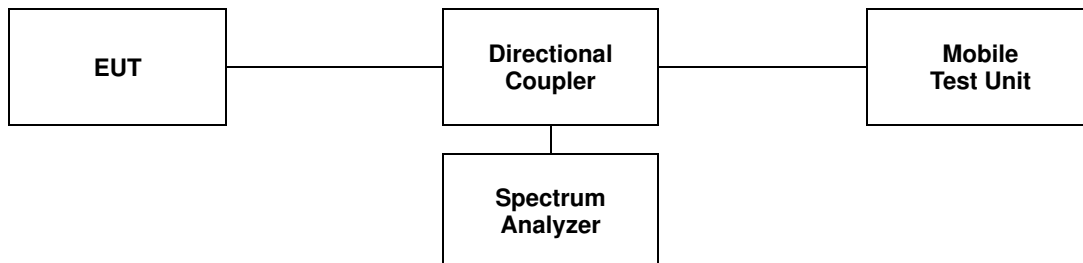
- §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

- §27.53(h)(1), for operations in the 1 695-1 710 MHz, 1 710-1 755 MHz, 1 755-1 780 MHz, 1 915-1 920 MHz, 1 995-2 000 MHz, 2 000-2 020 MHz, 2 110-2 155 MHz, 2 155-2 180 MHz, and 2 180-2 200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB.

7.2. Test Procedure

The test follows section 6.1 of FCC KDB Publication 971168 D01 v03.

1. Span was set large enough so as to capture all out of band emissions near the band edge.
2. RBW $\geq 1\%$ of OBW.
3. VBW $\geq 3 \times$ RBW.
4. Detector = RMS.
5. Trace mode = Average.
6. Sweep time = Auto.
7. The trace was allowed to stabilize.
8. All path loss of frequency range was investigated and compensated to spectrum analyzer as correction factor.



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7.3. Test Results

Ambient temperature : (23 ± 1) °C

Relative humidity : 47 % R.H.

Please refer to the following plots.

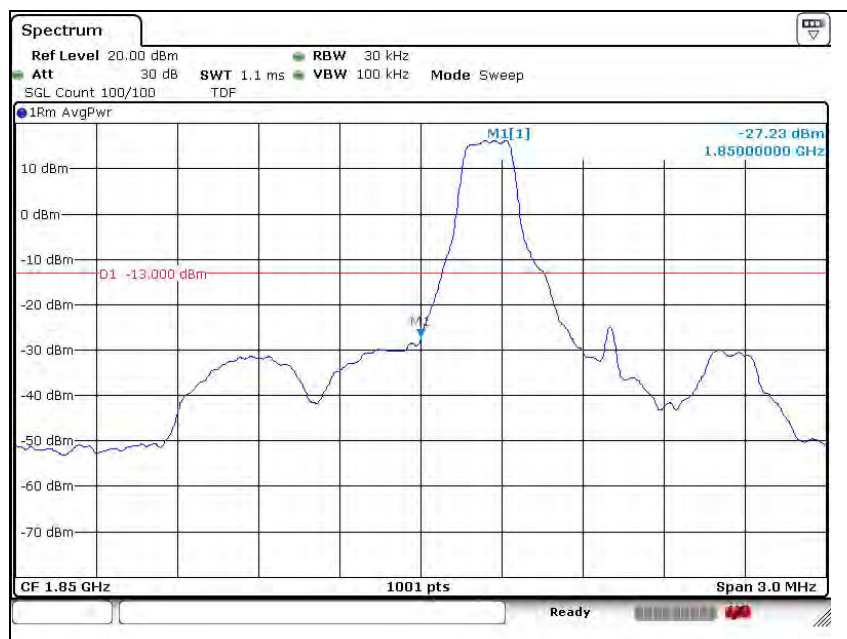
LTE band 2 (1.4 MHz - QPSK_RB 6)

Low Channel



LTE band 2 (1.4 MHz - QPSK_RB 1)

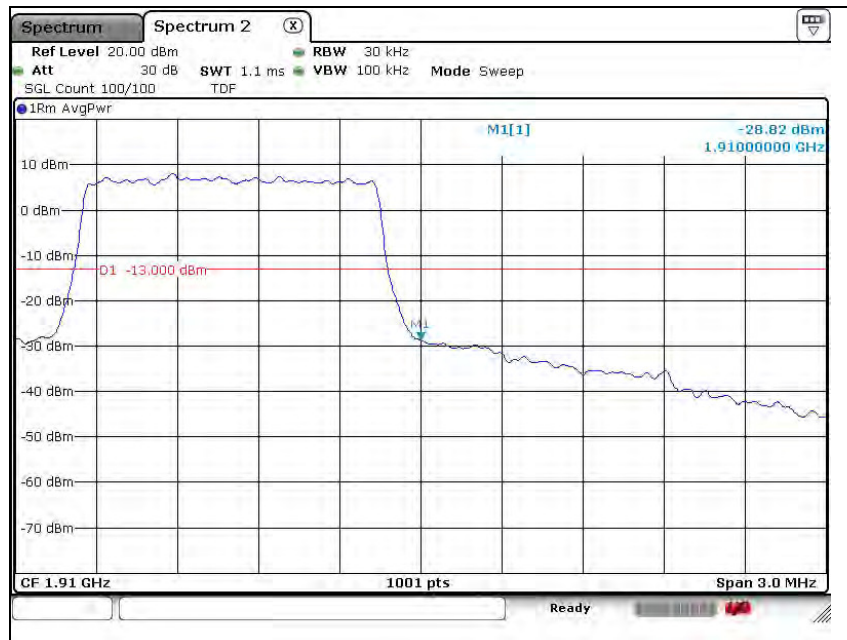
Low Channel



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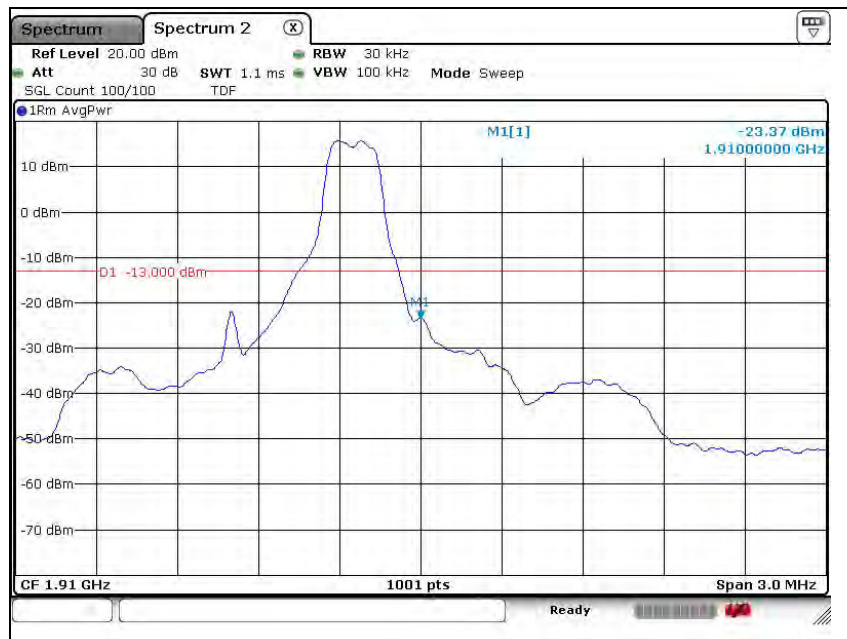
LTE band 2 (1.4 MHz - QPSK_RB 6)

High Channel



LTE band 2 (1.4 MHz - QPSK_RB 1)

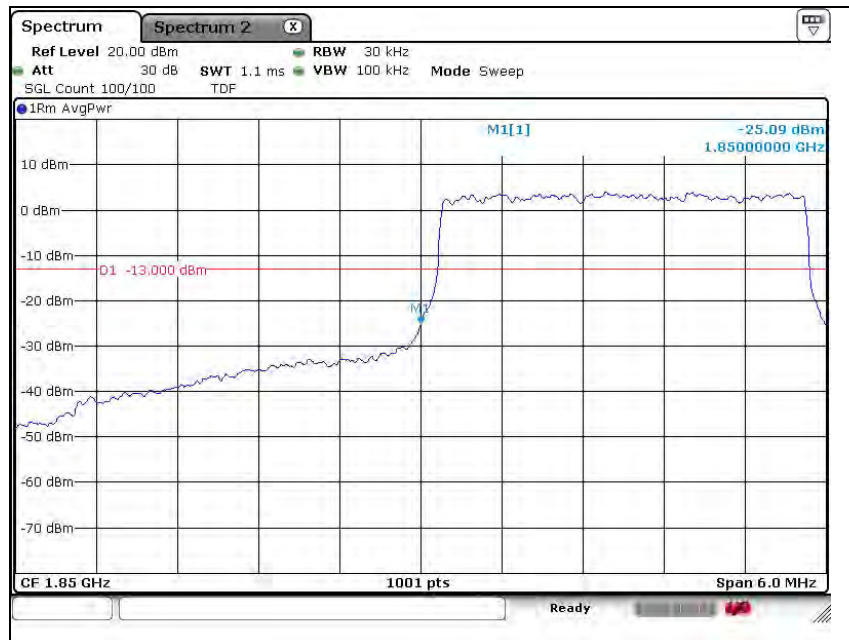
High Channel



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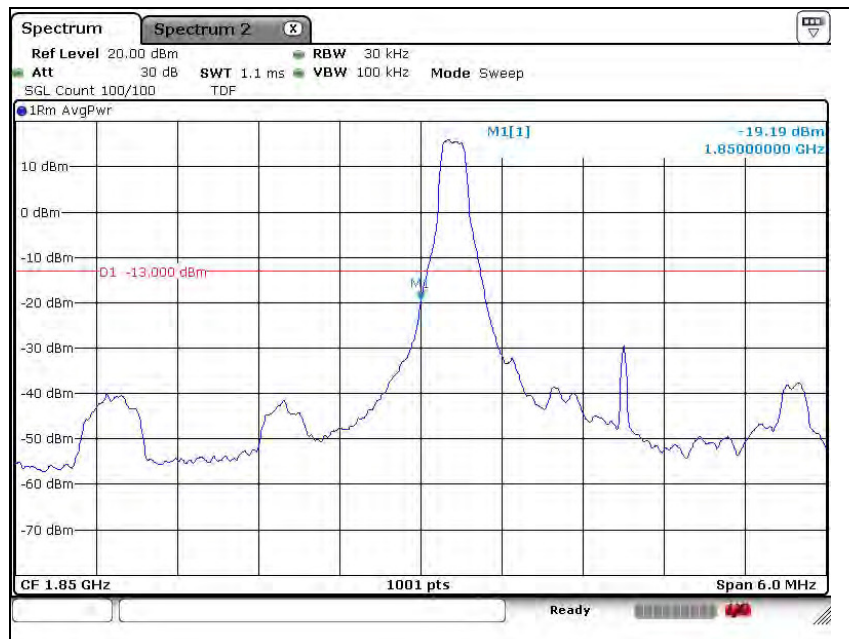
LTE band 2 (3 MHz - QPSK_RB 15)

Low Channel



LTE band 2 (3 MHz - QPSK_RB 1)

Low Channel



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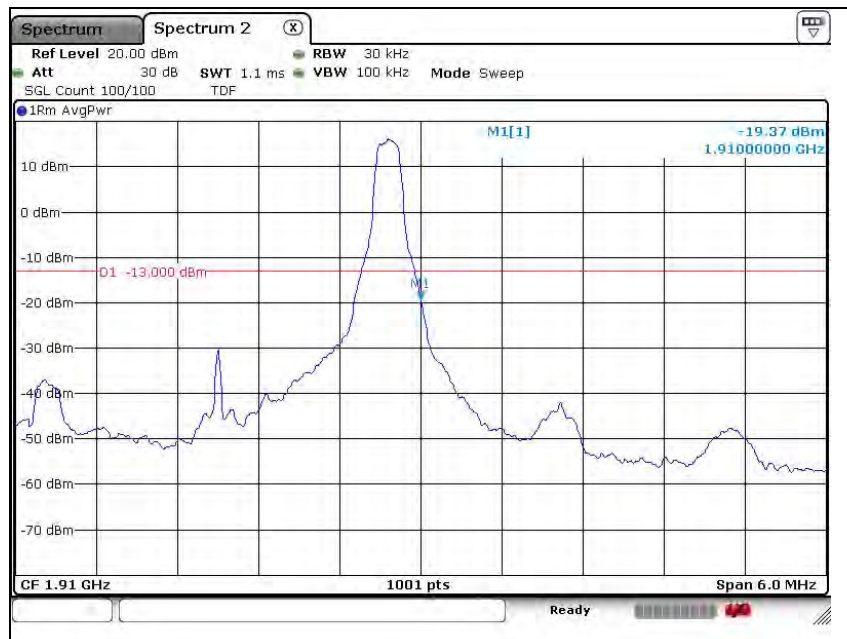
LTE band 2 (3 MHz - QPSK_RB 15)

High Channel



LTE band 2 (3 MHz - QPSK_RB 1)

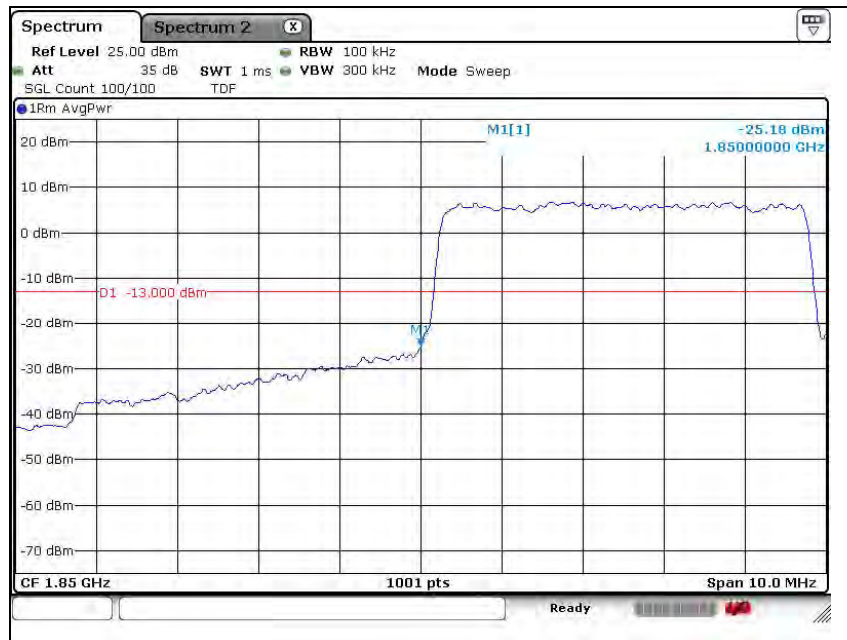
High Channel



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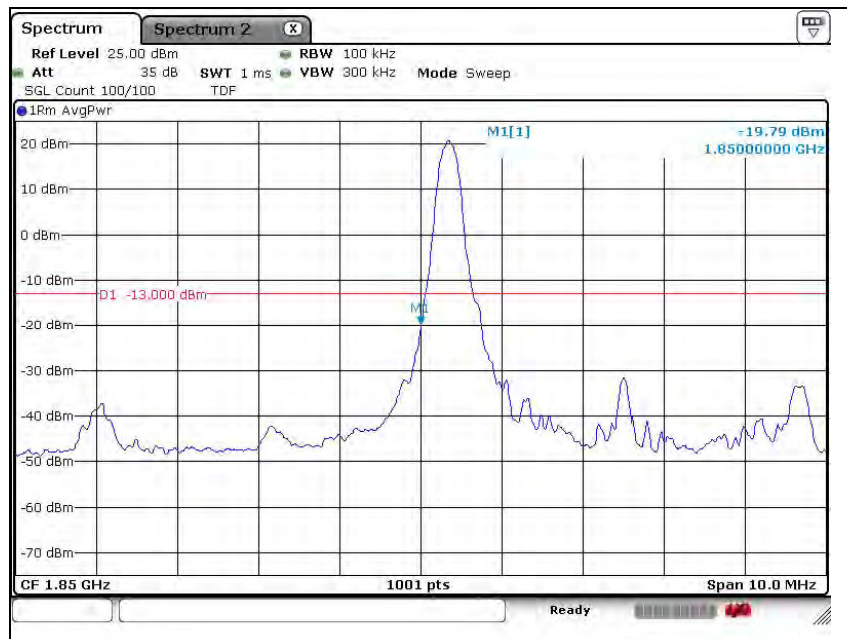
LTE band 2 (5 MHz - QPSK_RB 25)

Low Channel



LTE band 2 (5 MHz - QPSK_RB 1)

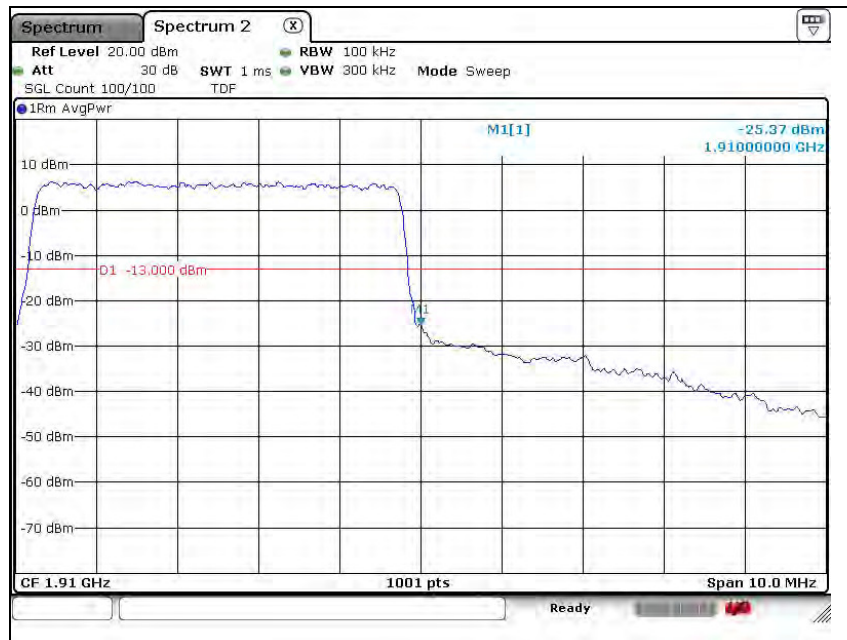
Low Channel



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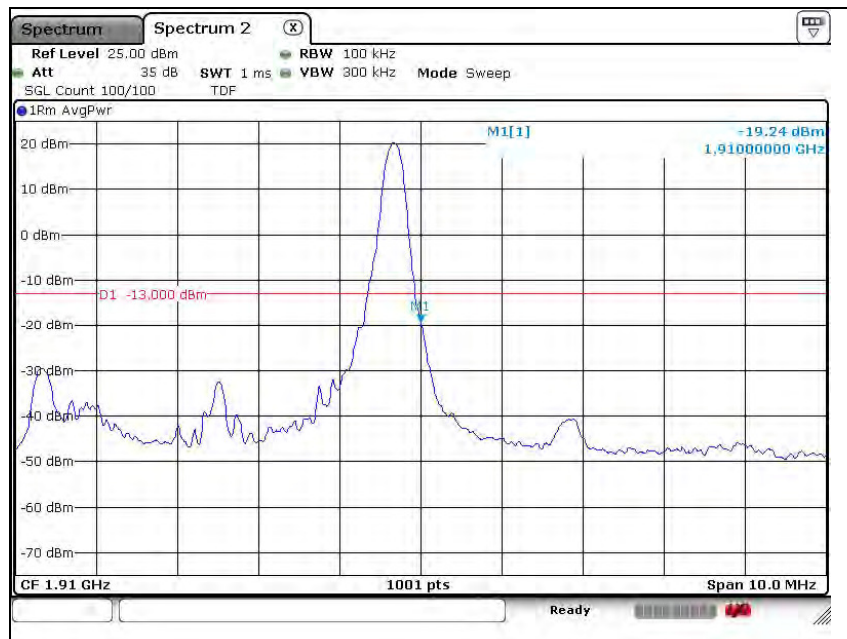
LTE band 2 (5 MHz - QPSK_RB 25)

High Channel



LTE band 2 (5 MHz - QPSK_RB 1)

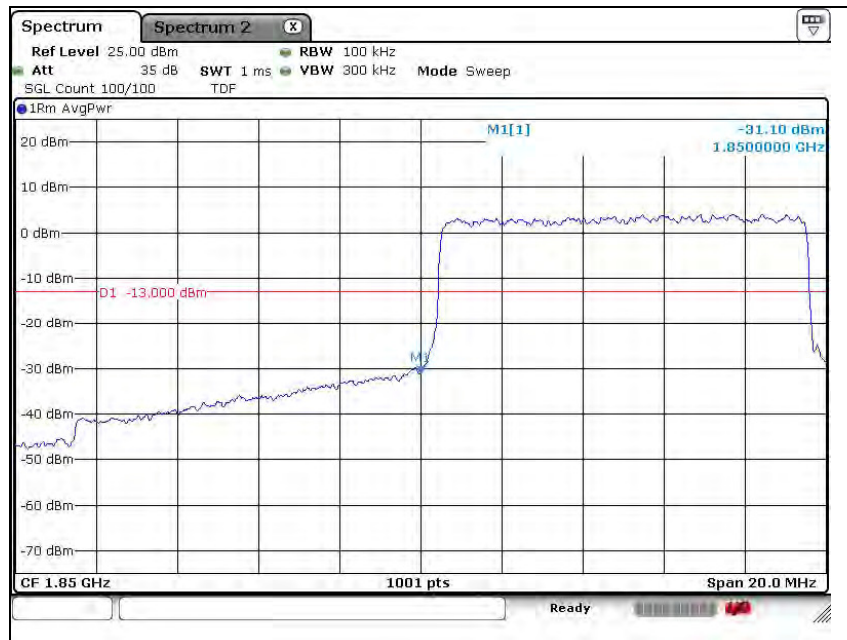
High Channel



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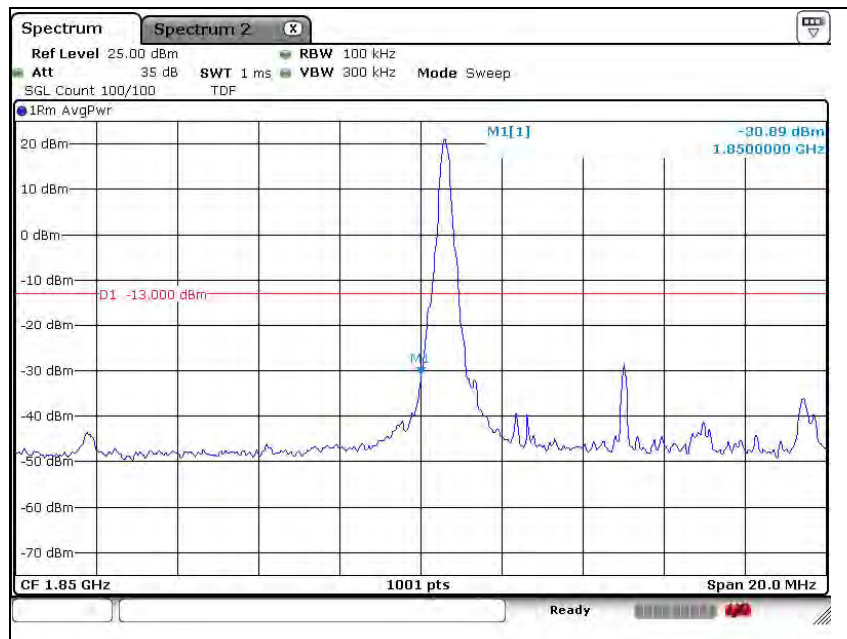
LTE band 2 (10 MHz - QPSK_RB 50)

Low Channel



LTE band 2 (10 MHz - QPSK_RB 1)

Low Channel



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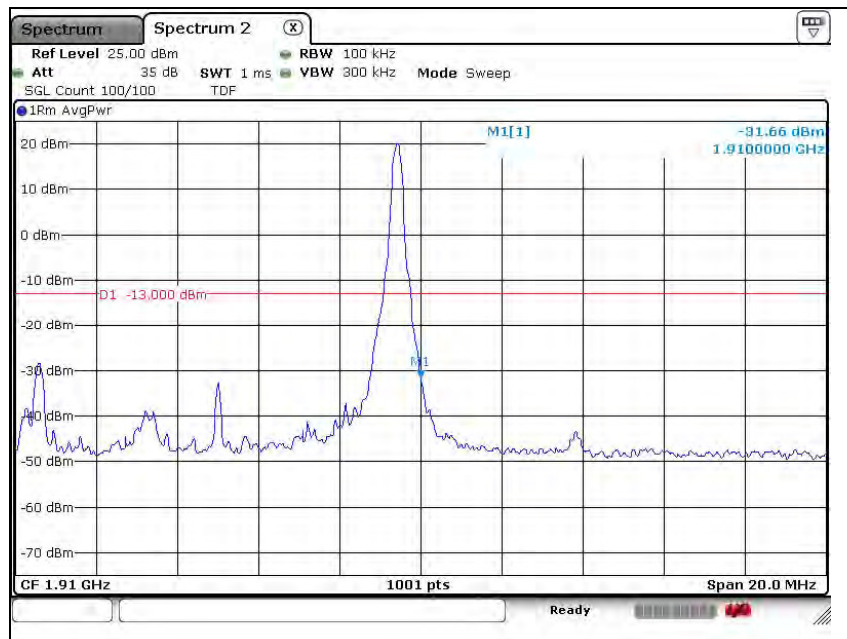
LTE band 2 (10 MHz - QPSK_RB 50)

High Channel



LTE band 2 (10 MHz - QPSK_RB 1)

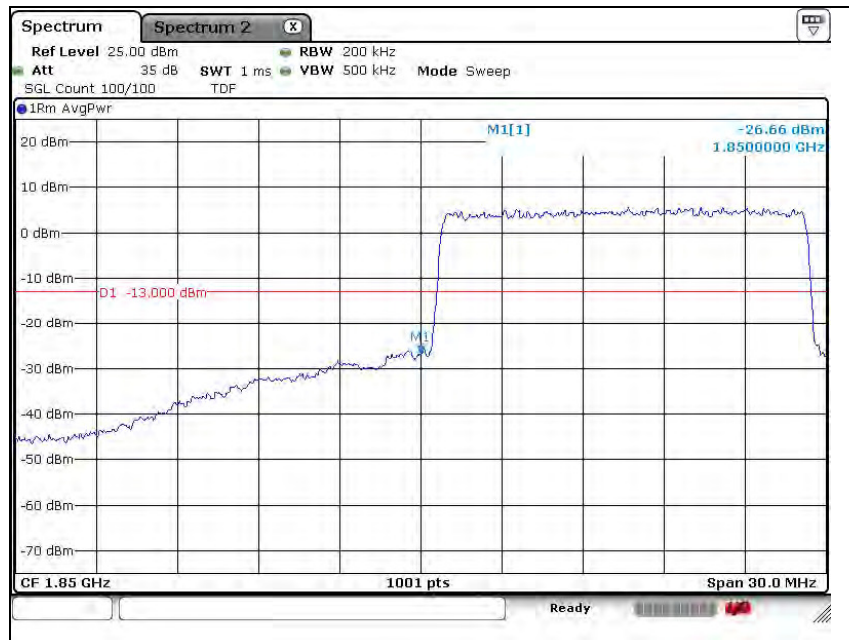
High Channel



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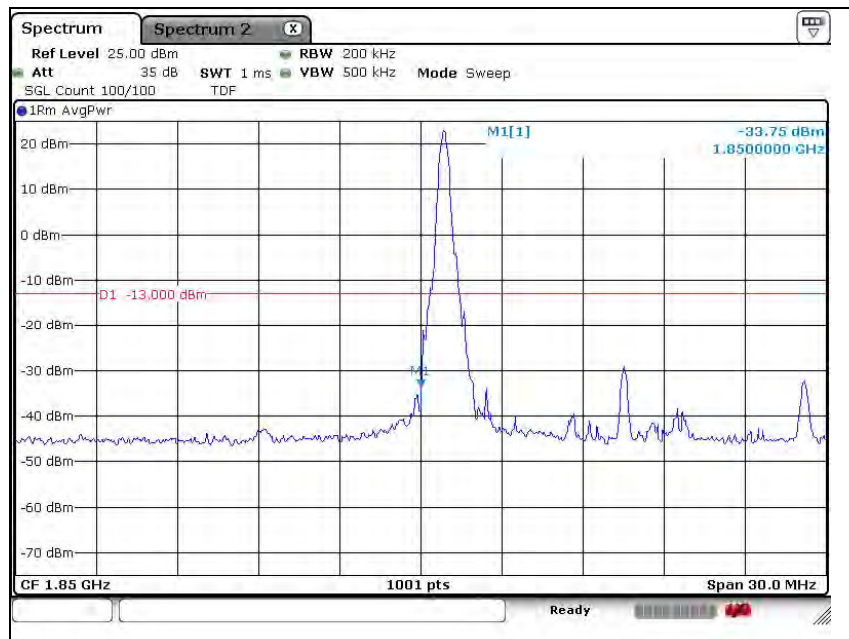
LTE band 2 (15 MHz - QPSK_RB 75)

Low Channel



LTE band 2 (15 MHz - QPSK_RB 1)

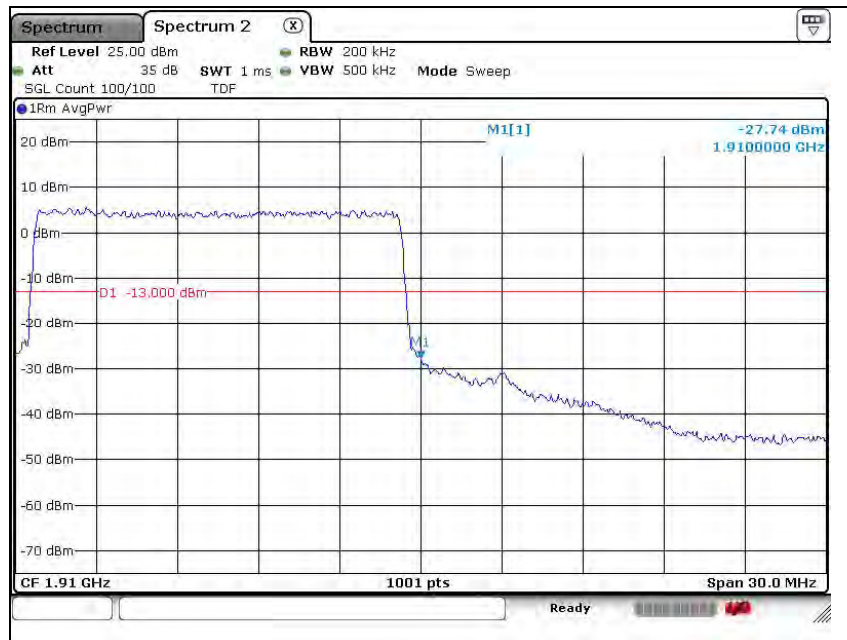
Low Channel



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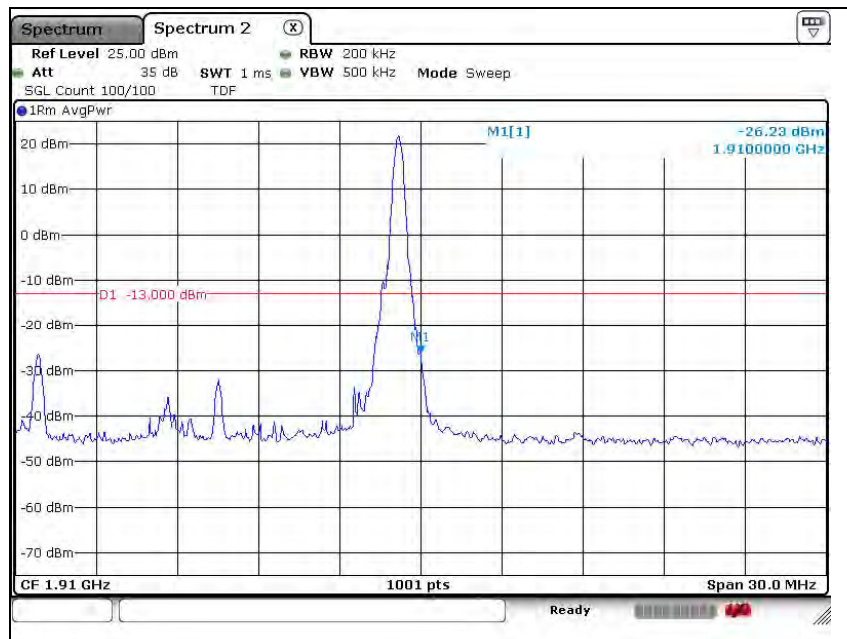
LTE band 2 (15 MHz - QPSK_RB 75)

High Channel



LTE band 2 (15 MHz - QPSK_RB 1)

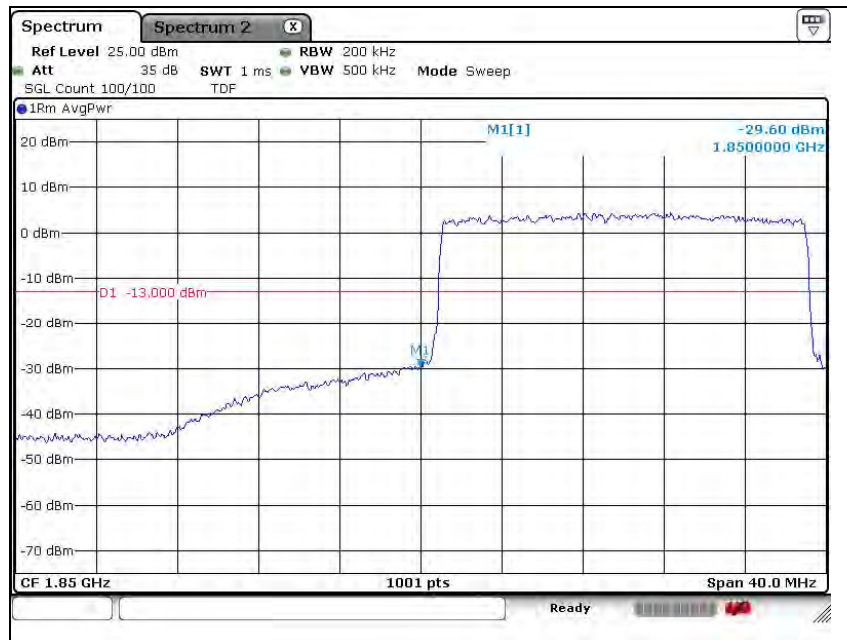
High Channel



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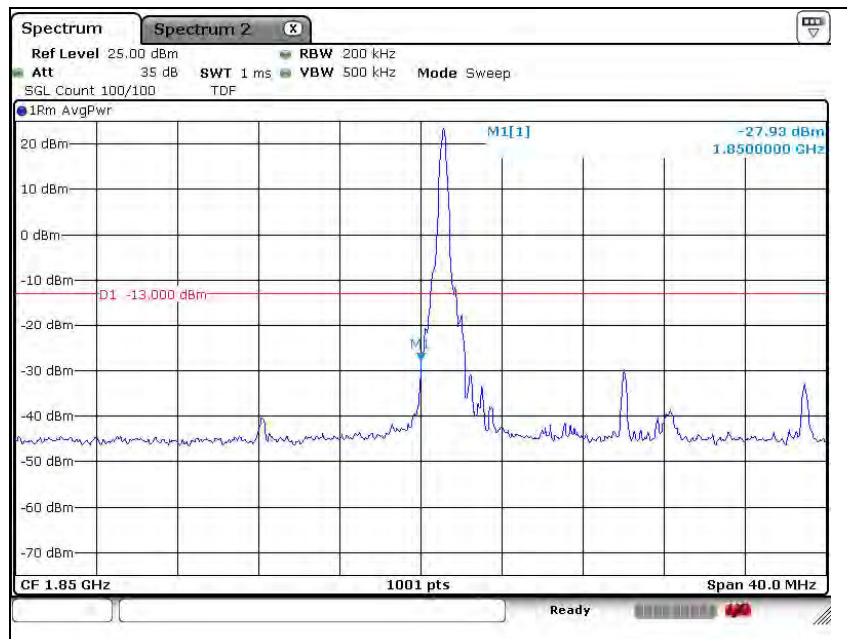
LTE band 2 (20 MHz - QPSK_RB 100)

Low Channel



LTE band 2 (20 MHz - QPSK_RB 1)

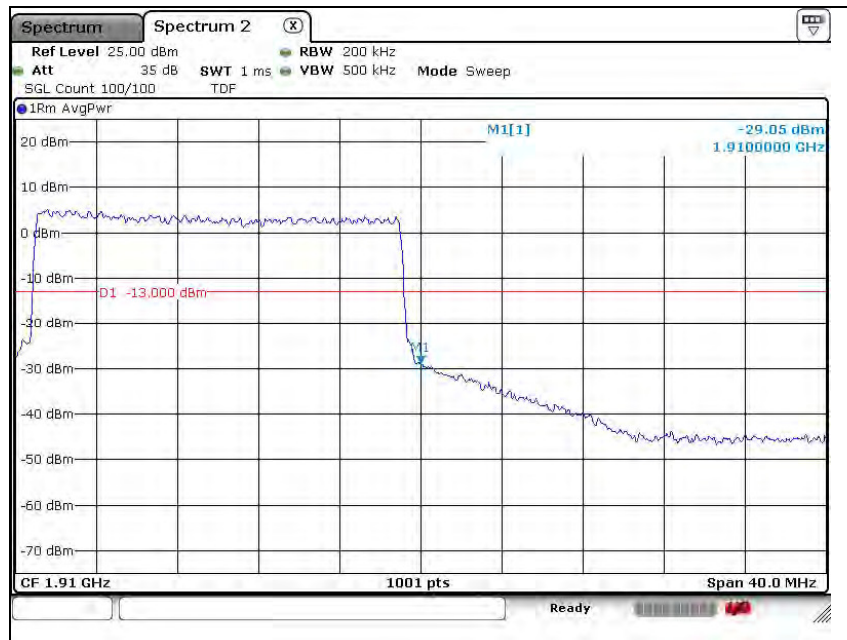
Low Channel



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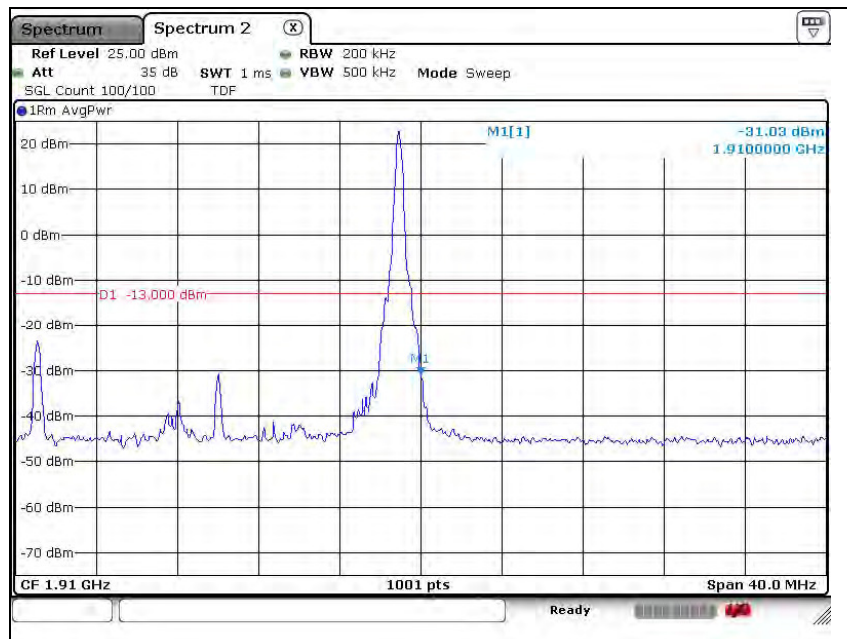
LTE band 2 (20 MHz - QPSK_RB 100)

High Channel



LTE band 2 (20 MHz - QPSK_RB 1)

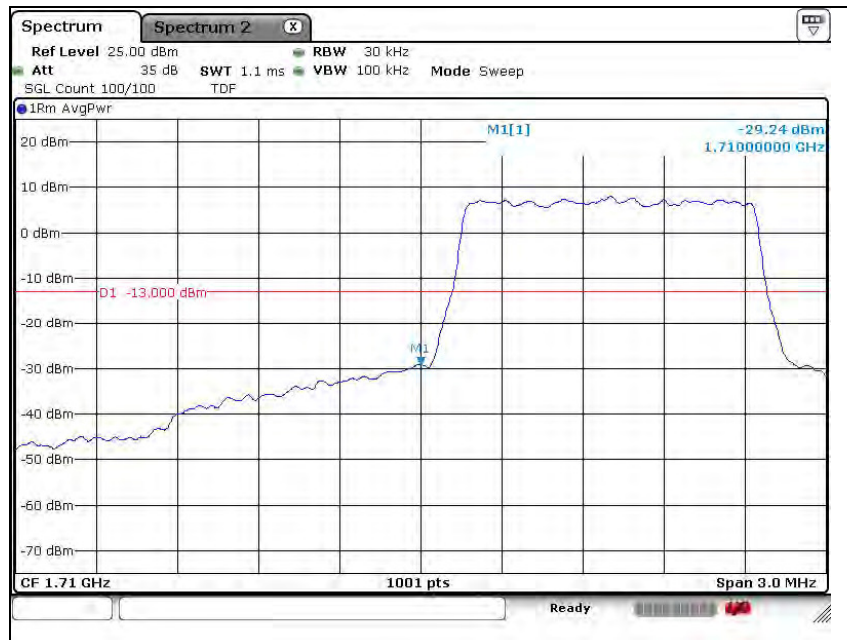
High Channel



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LTE band 4 (1.4 MHz - QPSK_RB 6)

Low Channel



LTE band 4 (1.4 MHz - QPSK_RB 1)

Low Channel



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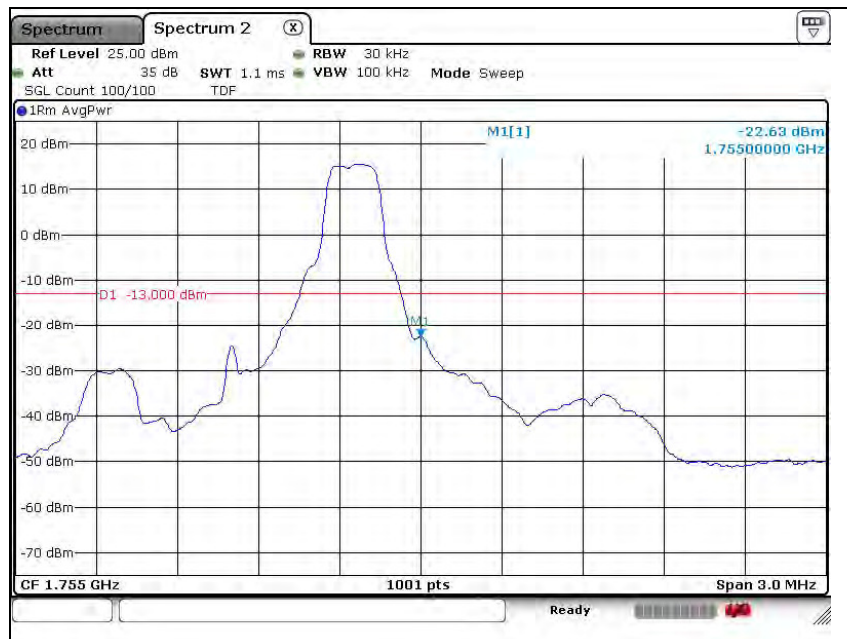
LTE band 4 (1.4 MHz - QPSK_RB 6)

High Channel



LTE band 4 (1.4 MHz - QPSK_RB 1)

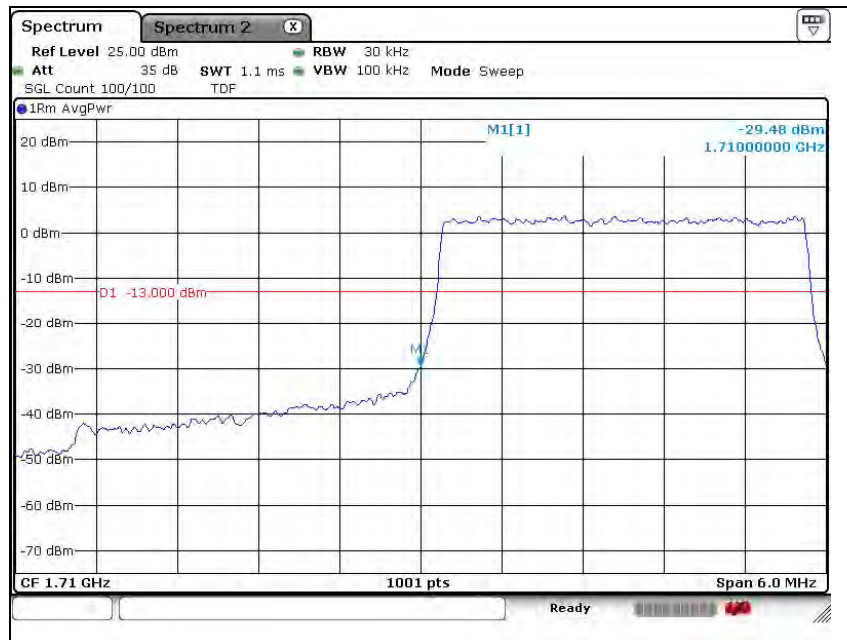
High Channel



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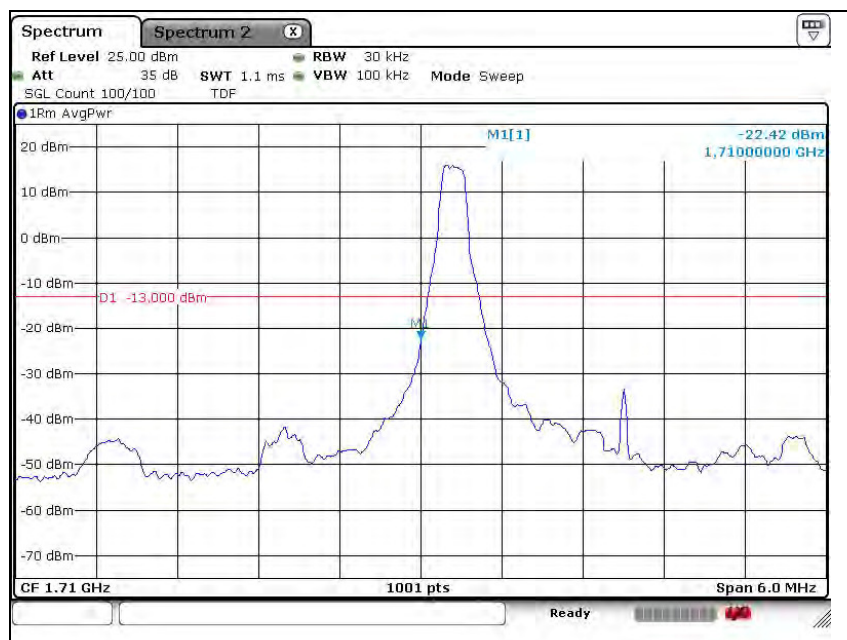
LTE band 4 (3 MHz - QPSK_RB 15)

Low Channel



LTE band 4 (3 MHz - QPSK_RB 1)

Low Channel



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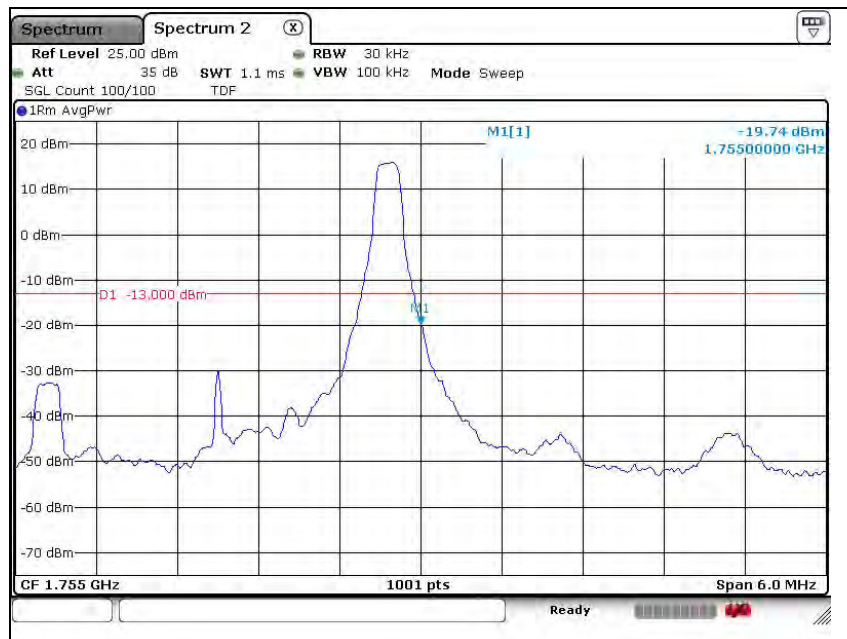
LTE band 4 (3 MHz - QPSK_RB 15)

High Channel



LTE band 4 (3 MHz - QPSK_RB 1)

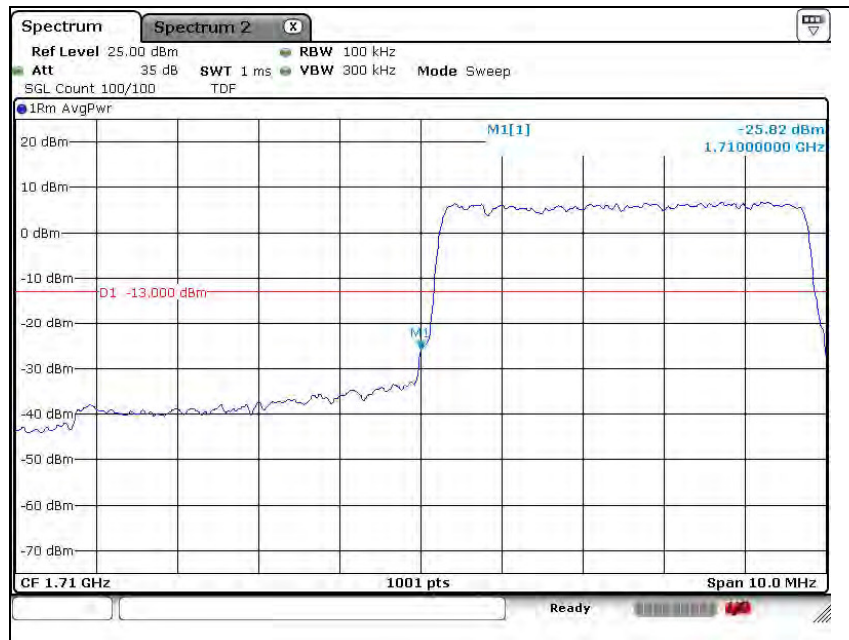
High Channel



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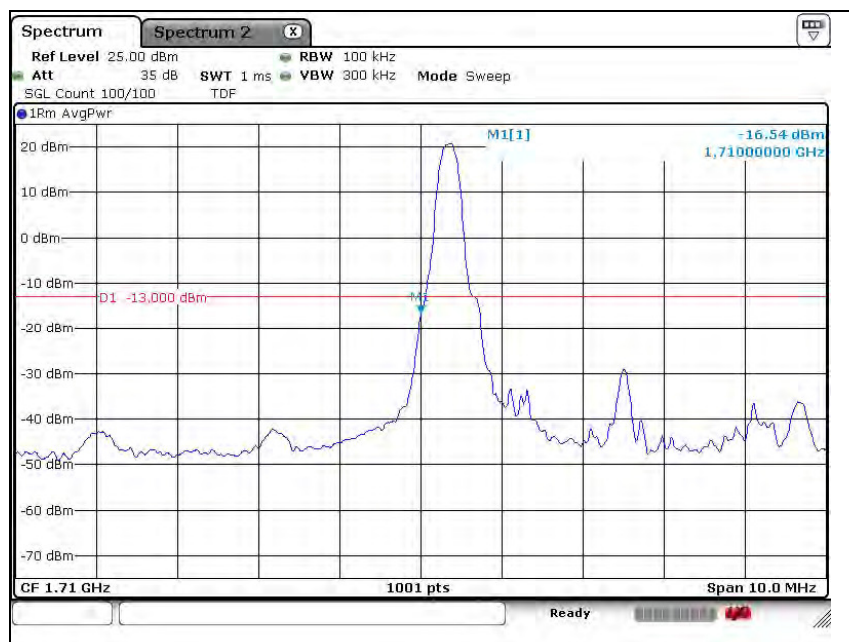
LTE band 4 (5 MHz - QPSK_RB 25)

Low Channel



LTE band 4 (5 MHz - QPSK_RB 1)

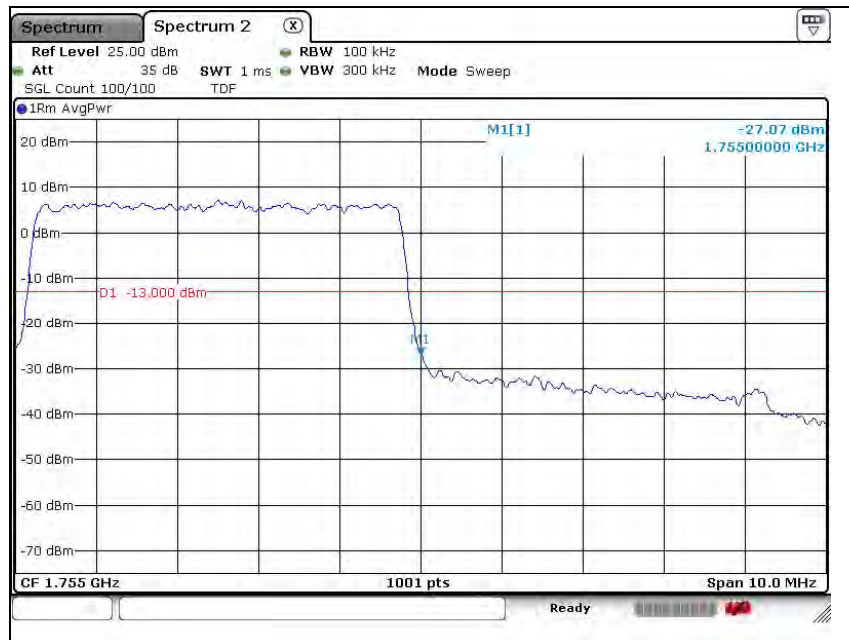
Low Channel



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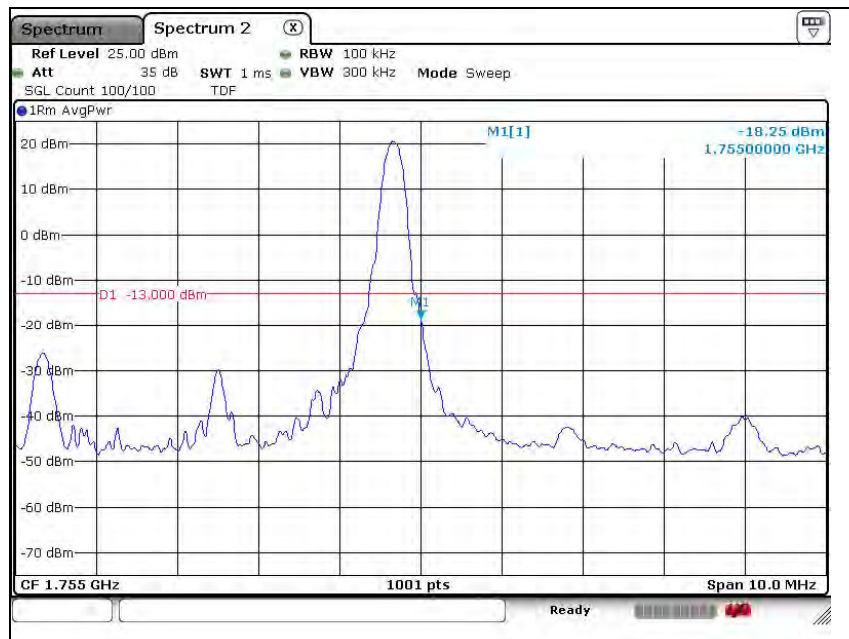
LTE band 4 (5 MHz - QPSK_RB 25)

High Channel



LTE band 4 (5 MHz - QPSK_RB 1)

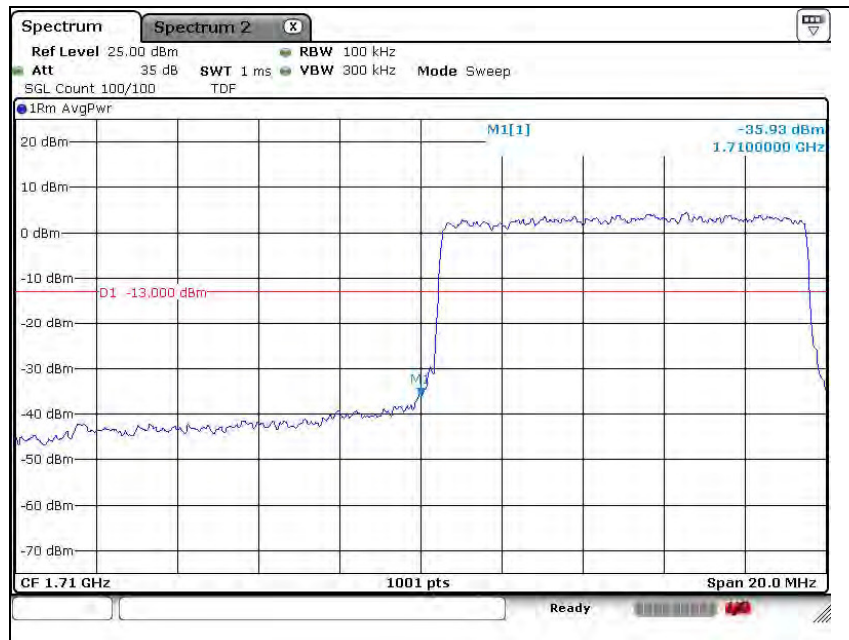
High Channel



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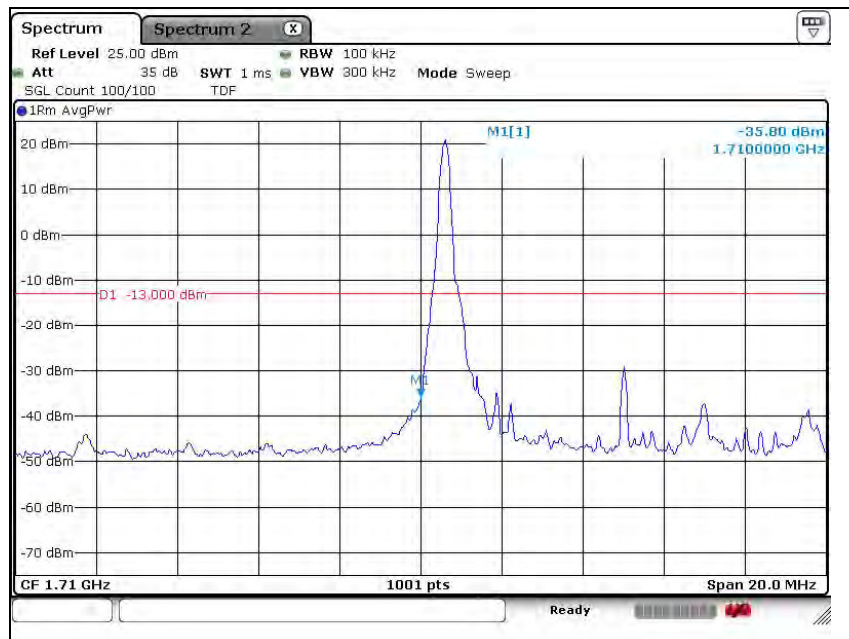
LTE band 4 (10 MHz - QPSK_RB 50)

Low Channel



LTE band 4 (10 MHz - QPSK_RB 1)

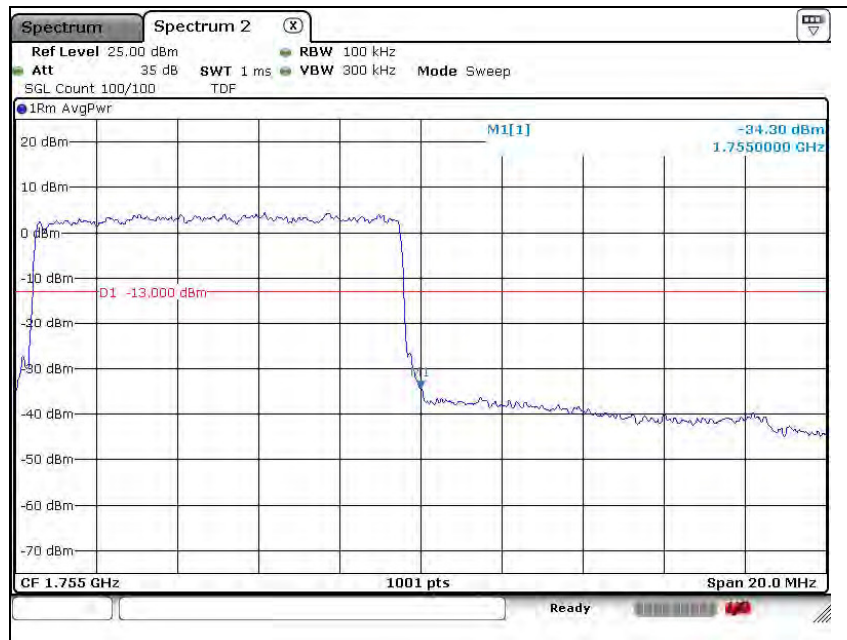
Low Channel



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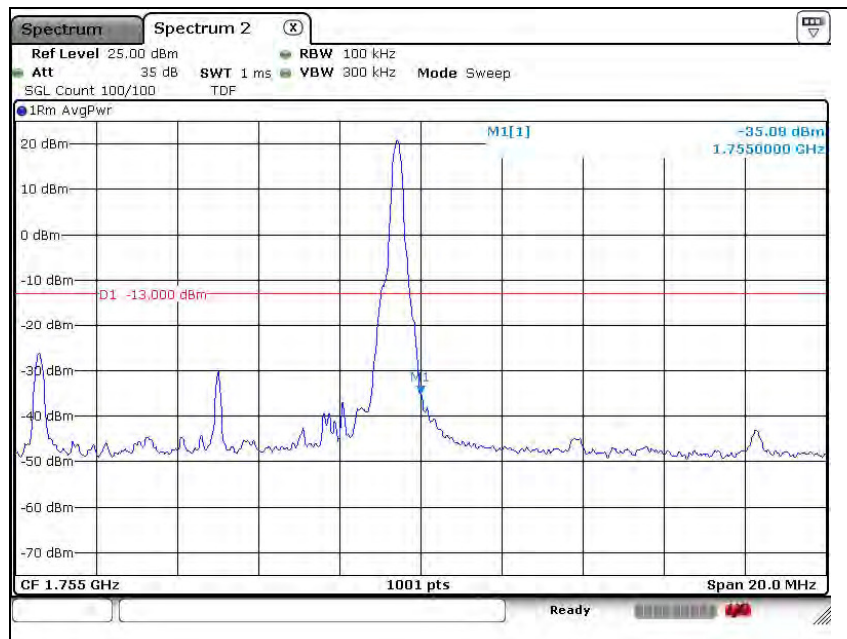
LTE band 4 (10 MHz - QPSK_RB 50)

High Channel



LTE band 4 (10 MHz - QPSK_RB 1)

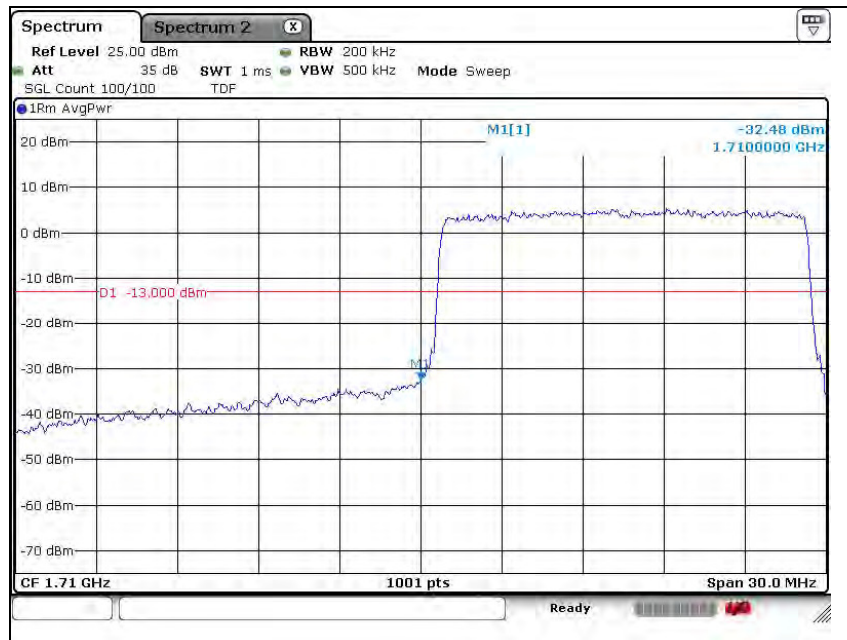
High Channel



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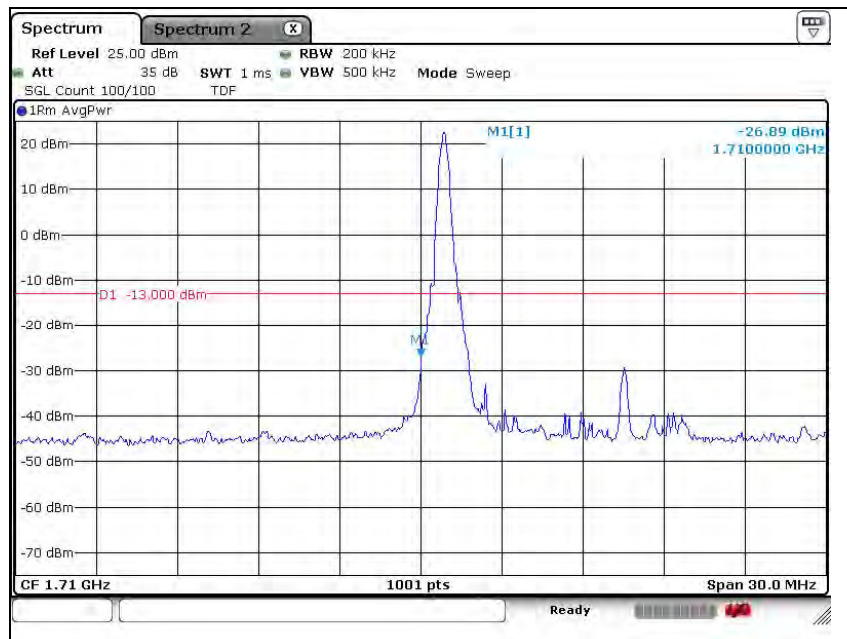
LTE band 4 (15 MHz - QPSK_RB 75)

Low Channel



LTE band 4 (15 MHz - QPSK_RB 1)

Low Channel



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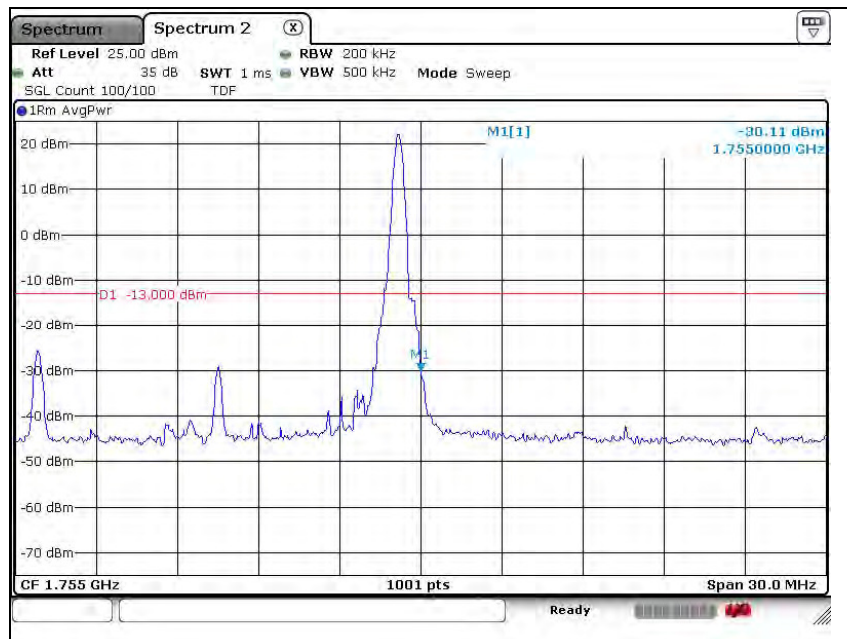
LTE band 4 (15 MHz - QPSK_RB 75)

High Channel



LTE band 4 (15 MHz - QPSK_RB 1)

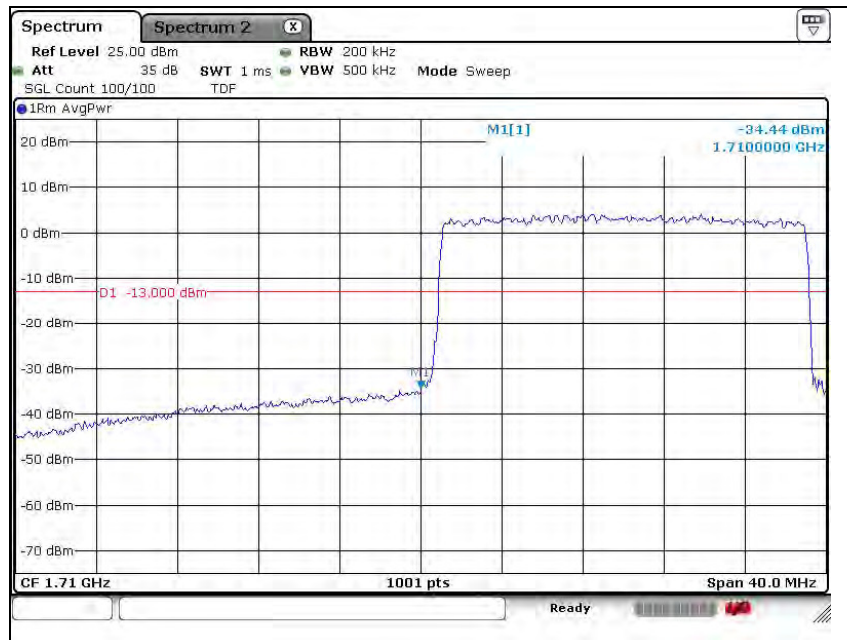
High Channel



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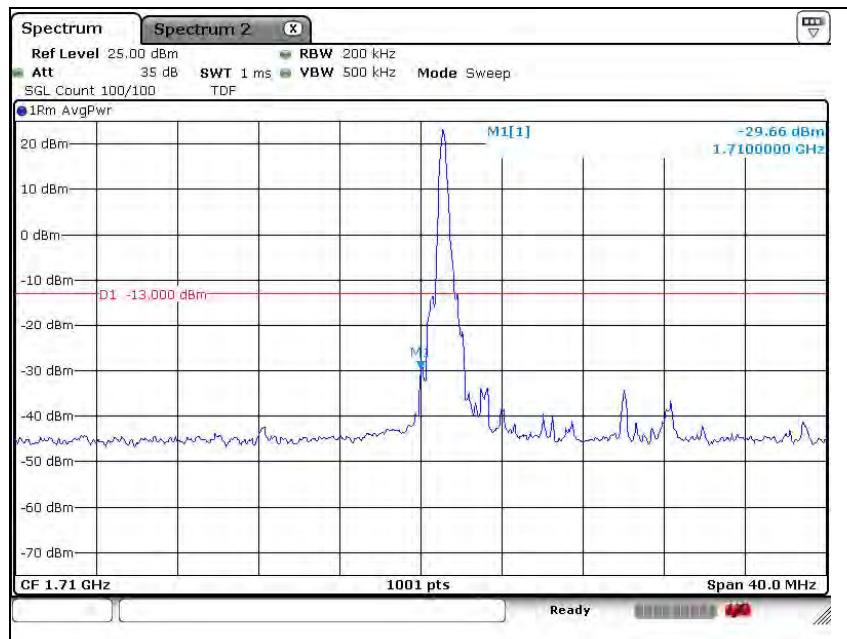
LTE band 4 (20 MHz - QPSK_RB 100)

Low Channel



LTE band 4 (20 MHz - QPSK_RB 1)

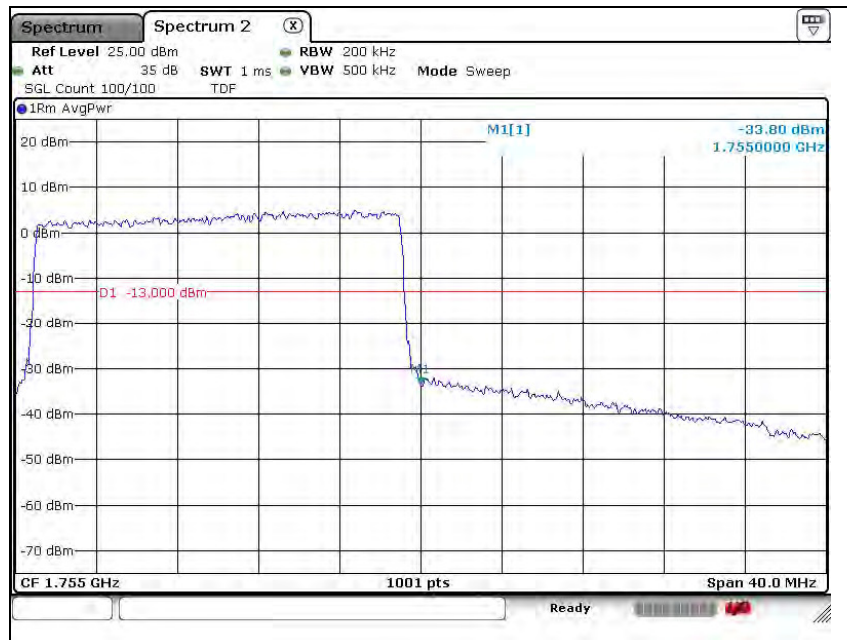
Low Channel



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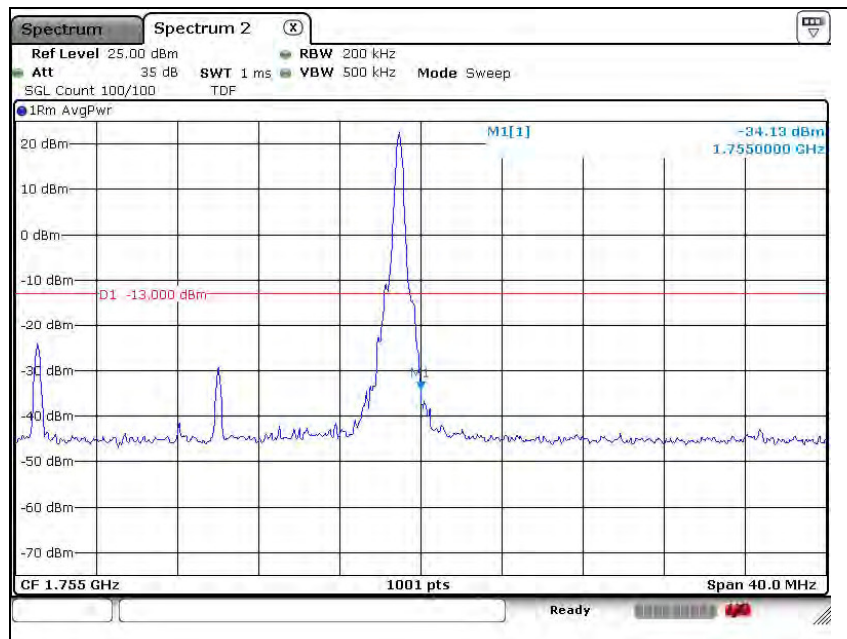
LTE band 4 (20 MHz - QPSK_RB 100)

High Channel



LTE band 4 (20 MHz - QPSK_RB 1)

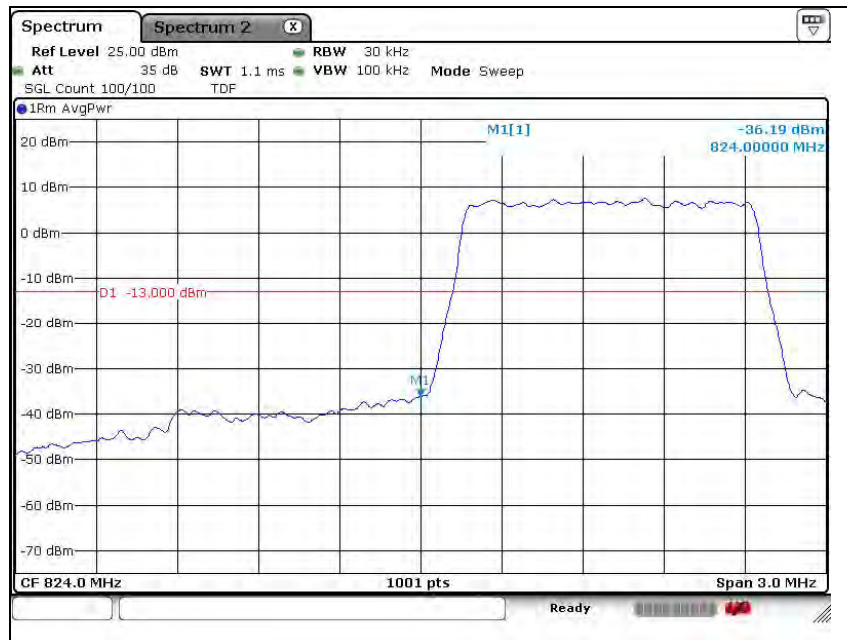
High Channel



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LTE band 5 (1.4 MHz - QPSK_RB 6)

Low Channel



LTE band 5 (1.4 MHz - QPSK_RB 1)

Low Channel



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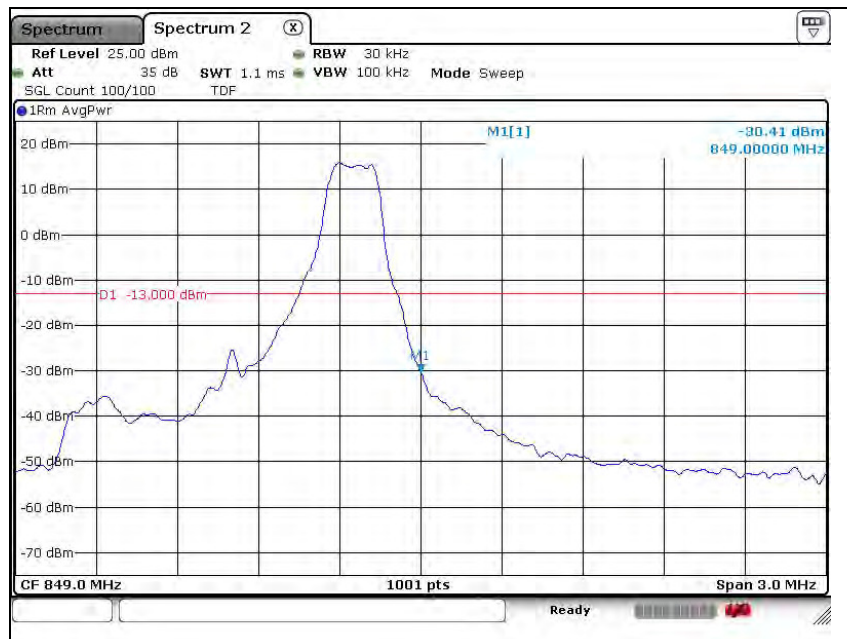
LTE band 5 (1.4 MHz - QPSK_RB 6)

High Channel



LTE band 5 (1.4 MHz - QPSK_RB 1)

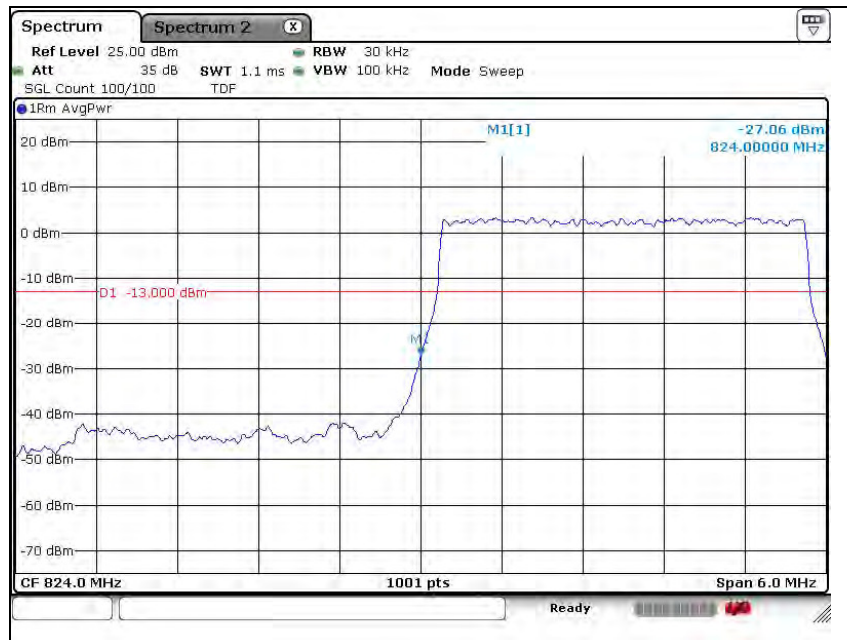
High Channel



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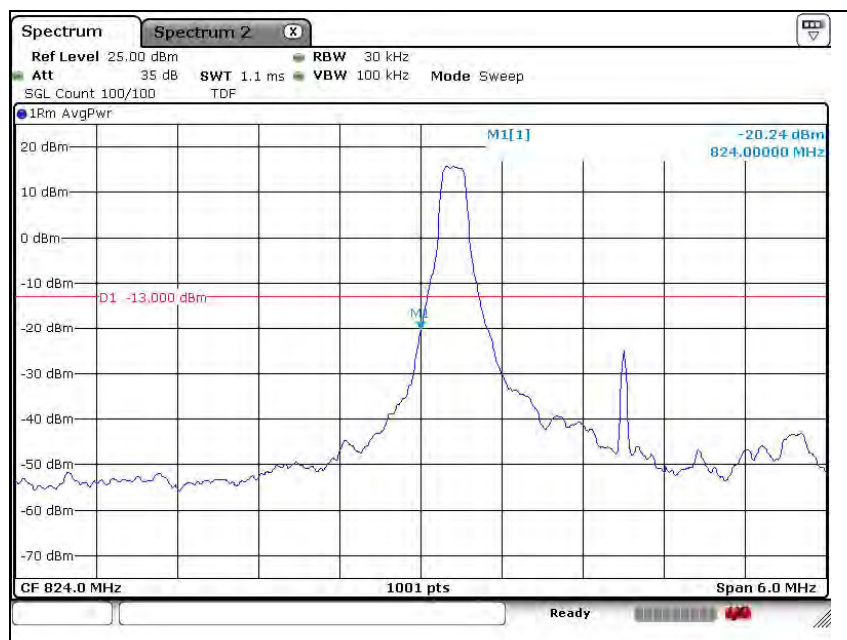
LTE band 5 (3 MHz - QPSK_RB 15)

Low Channel



LTE band 5 (3 MHz - QPSK_RB 1)

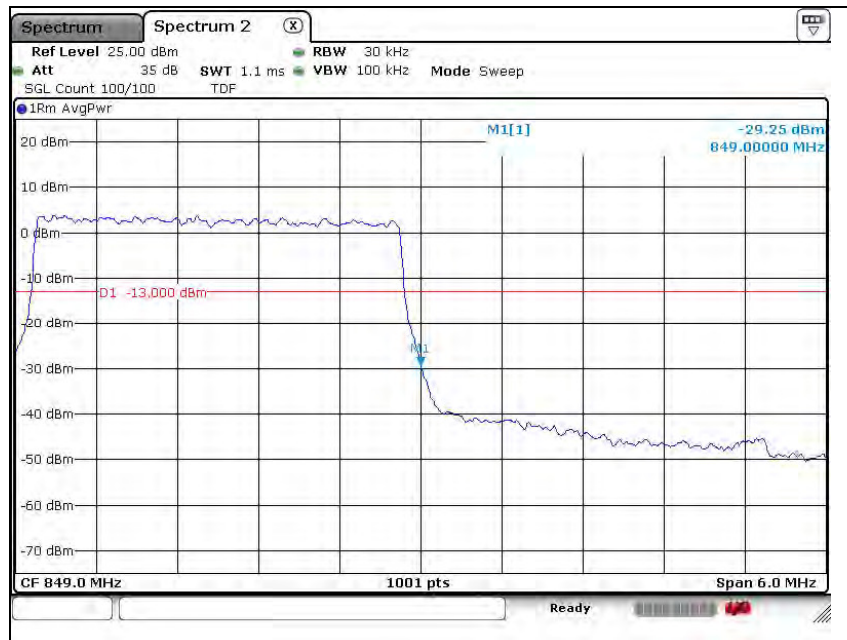
Low Channel



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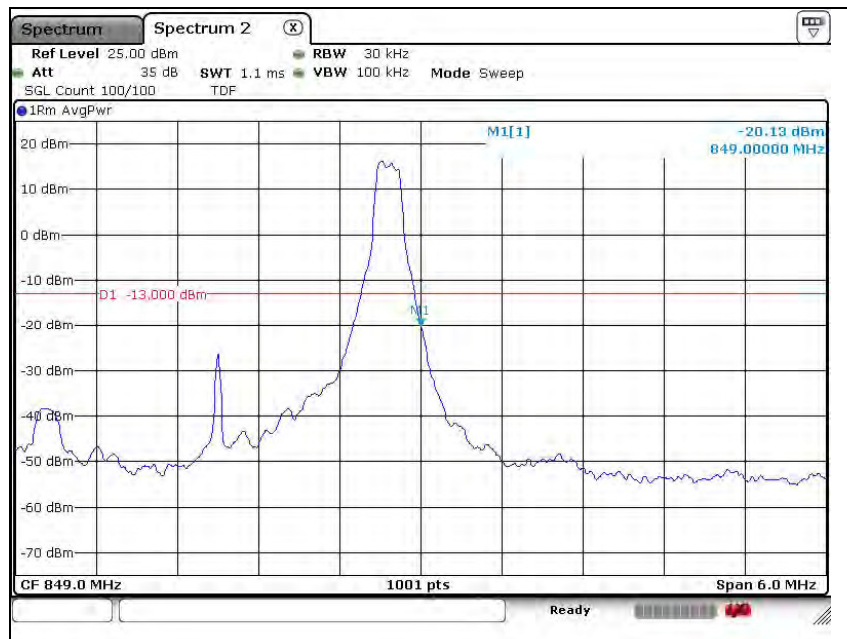
LTE band 5 (3 MHz - QPSK_RB 15)

High Channel



LTE band 5 (3 MHz - QPSK_RB 1)

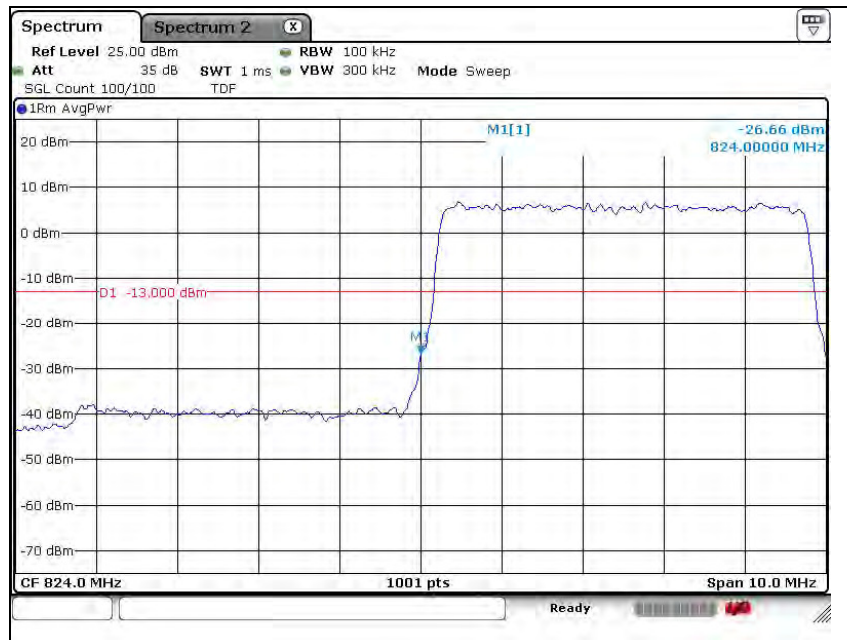
High Channel



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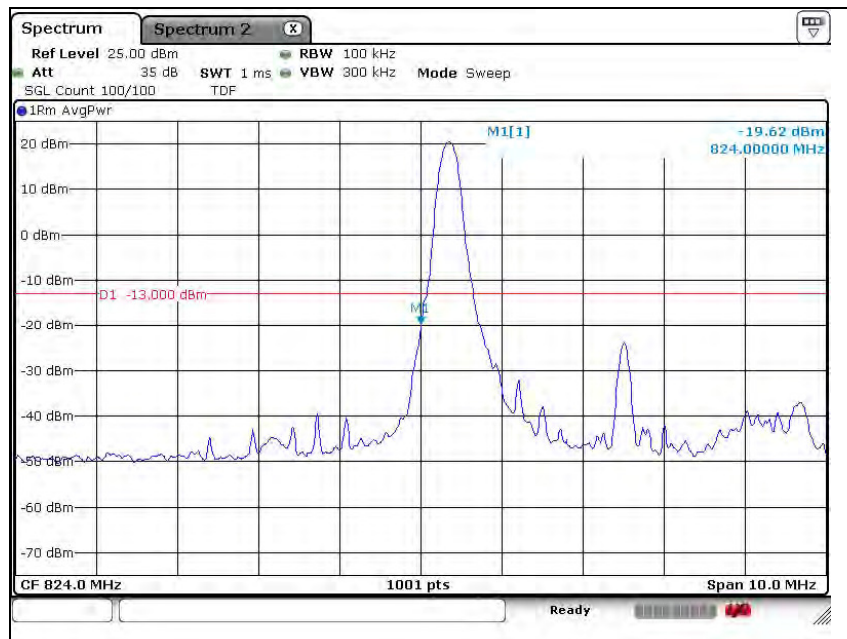
LTE band 5 (5 MHz - QPSK_RB 25)

Low Channel



LTE band 5 (5 MHz - QPSK_RB 1)

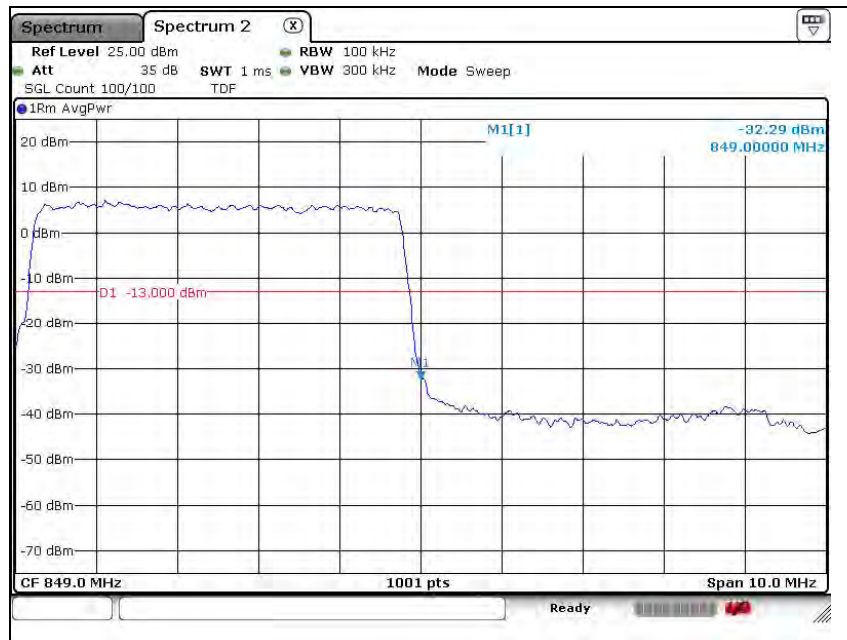
Low Channel



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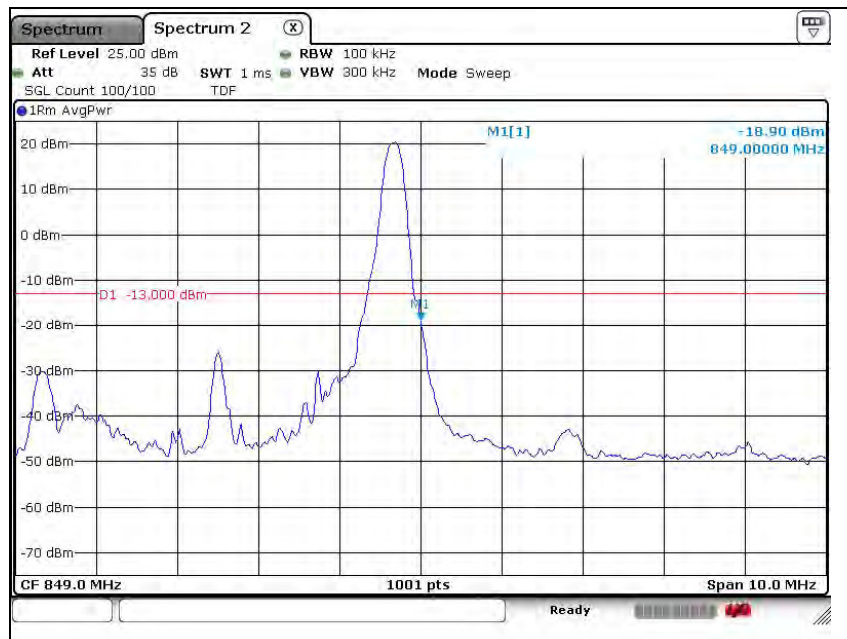
LTE band 5 (5 MHz - QPSK_RB 25)

High Channel



LTE band 5 (5 MHz - QPSK_RB 1)

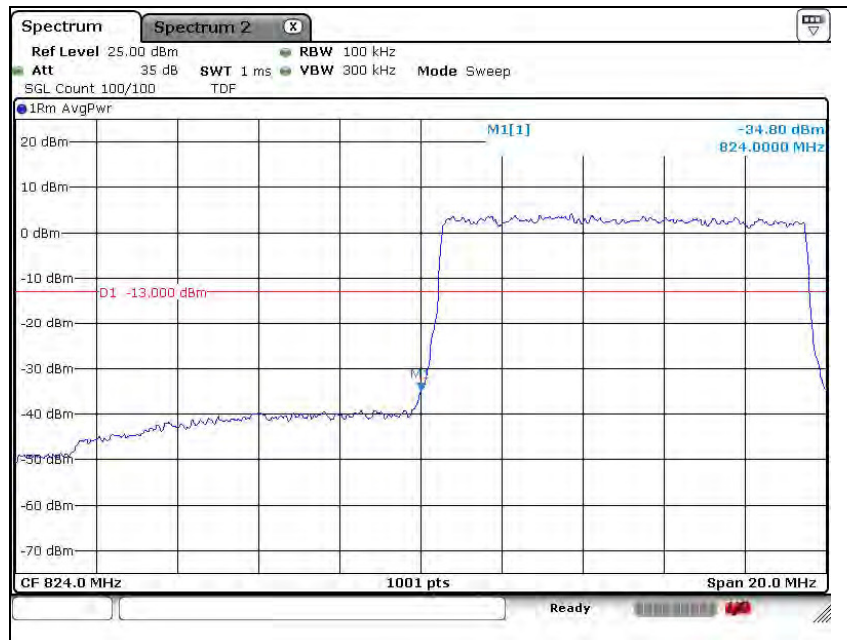
High Channel



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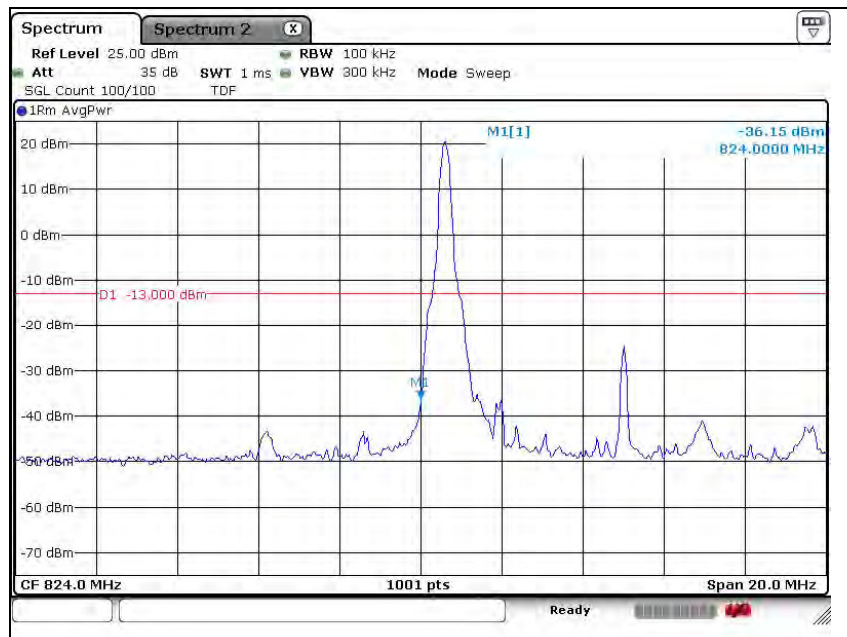
LTE band 5 (10 MHz - QPSK_RB 50)

Low Channel



LTE band 5 (10 MHz - QPSK_RB 1)

Low Channel



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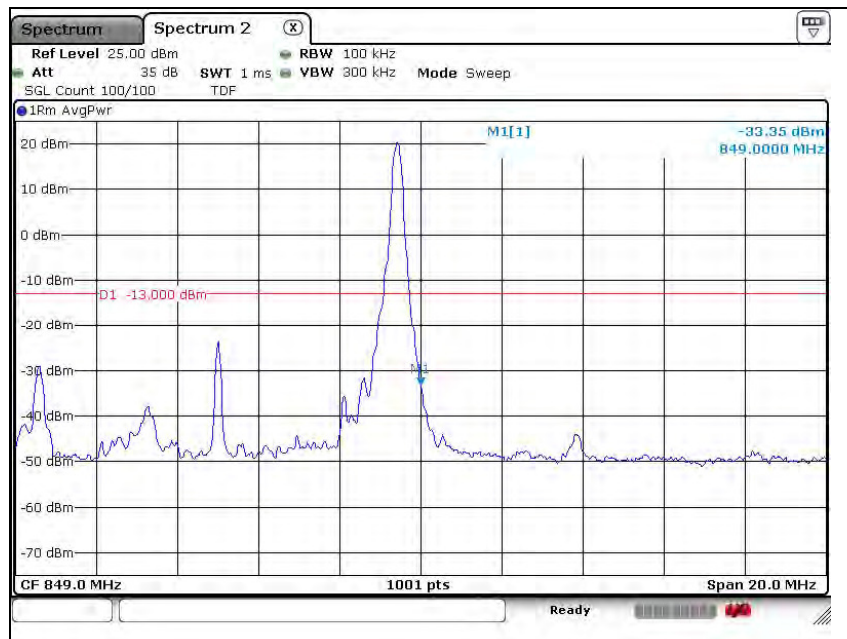
LTE band 5 (10 MHz - QPSK_RB 50)

High Channel



LTE band 5 (10 MHz - QPSK_RB 1)

High Channel



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8. Frequency Stability

8.1. 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.

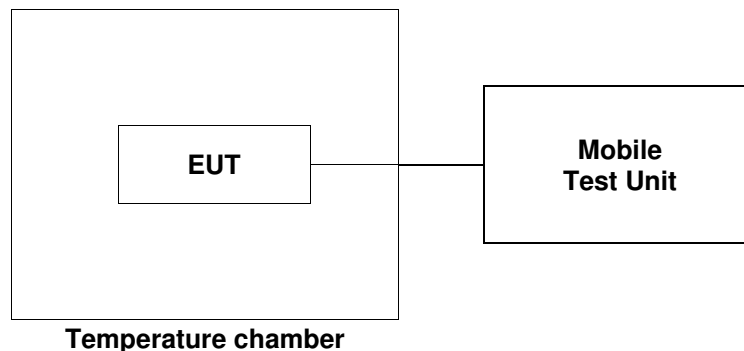
For Mobile devices operating in the 824 to 849 MHz band at a power level less than or equal to 3 Watts, the limit specified in Table C-1 is +/- 2.5 ppm.

- §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.

8.2. 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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8.3. Test Results

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

LTE band 2 at middle channel

Reference Frequency: 1 880.0 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	12	-5	-0.002 7
40		-3	-0.001 6
30		1	0.000 5
23		3	0.001 6
10		5	0.002 7
0		7	0.003 7
-10		2	0.001 1
-20		3	0.001 6
-30		-5	-0.002 7
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
23	13.8	5	0.002 7
	10.2	7	0.003 7

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LTE band 4 at middle channel

Reference Frequency: 1 732.5 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	12	4	0.002 3
40		5	0.002 9
30		7	0.004 0
23		6	0.003 5
10		-2	-0.001 2
0		-4	-0.002 3
-10		1	0.000 6
-20		-5	-0.002 9
-30		-10	-0.005 8
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
23	13.8	-4	-0.002 3
	10.2	6	0.003 5

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LTE band 5 at middle channel

Reference Frequency: 836.5 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	12	-5	-0.006 0
40		7	0.008 4
30		-3	-0.003 6
23		1	0.001 2
10		10	0.012 0
0		5	0.006 0
-10		-3	-0.003 6
-20		-5	-0.006 0
-30		1	0.001 2
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V _{dc})	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
23	13.8	3	0.003 6
	10.2	7	0.008 4

- End of the Test Report -

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