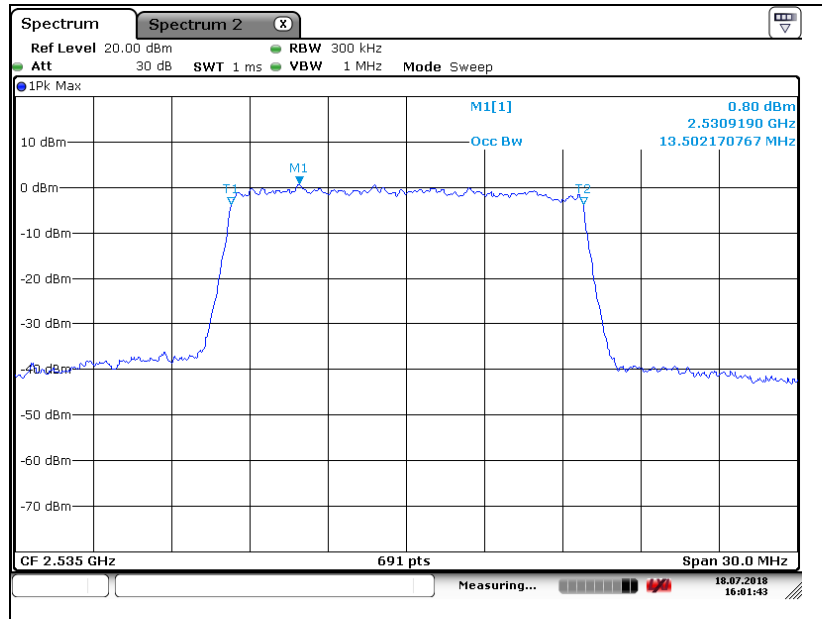
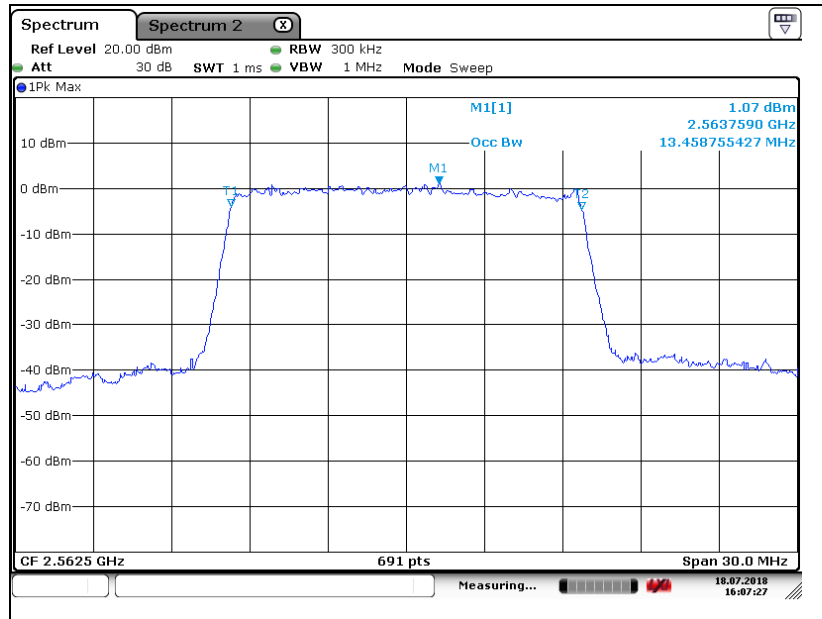


Middle Channel



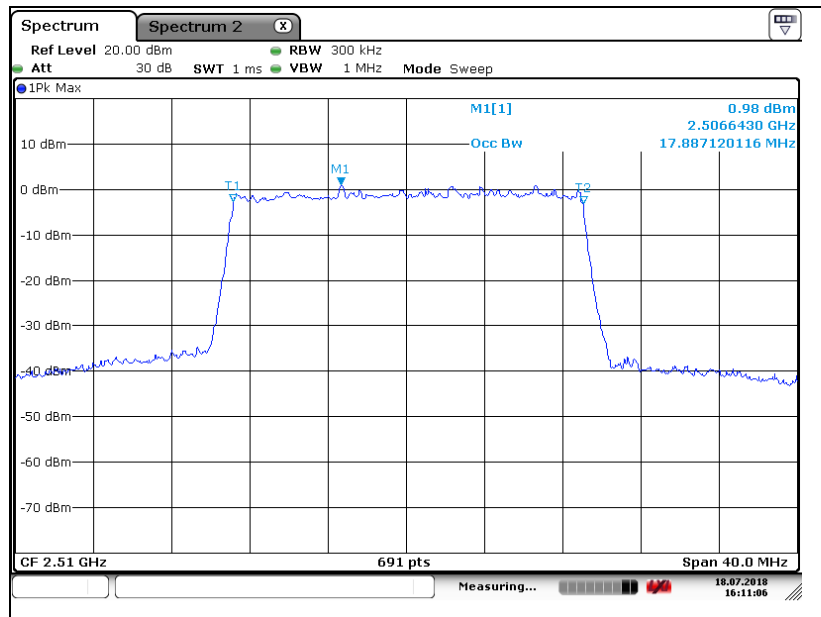
High Channel



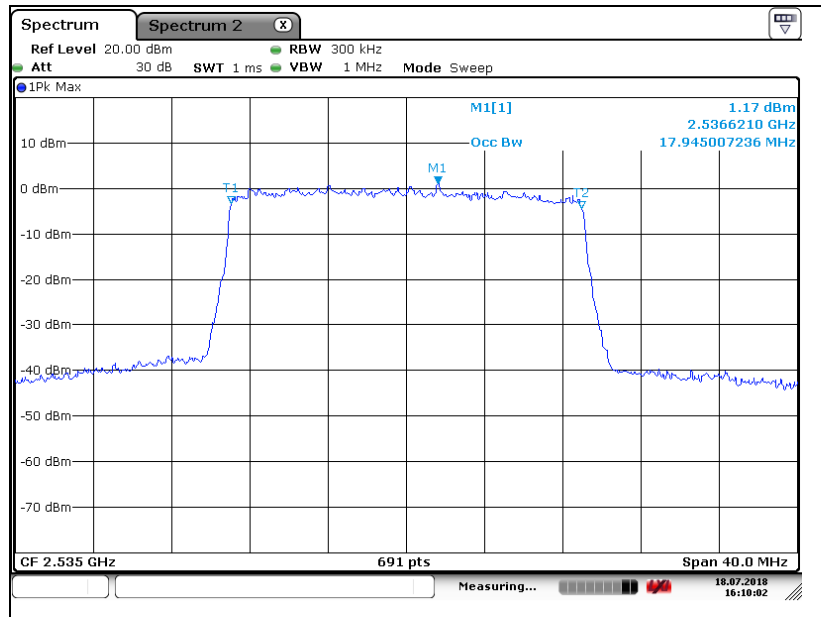
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LTE band 7 (20 MHz - QPSK)

Low Channel

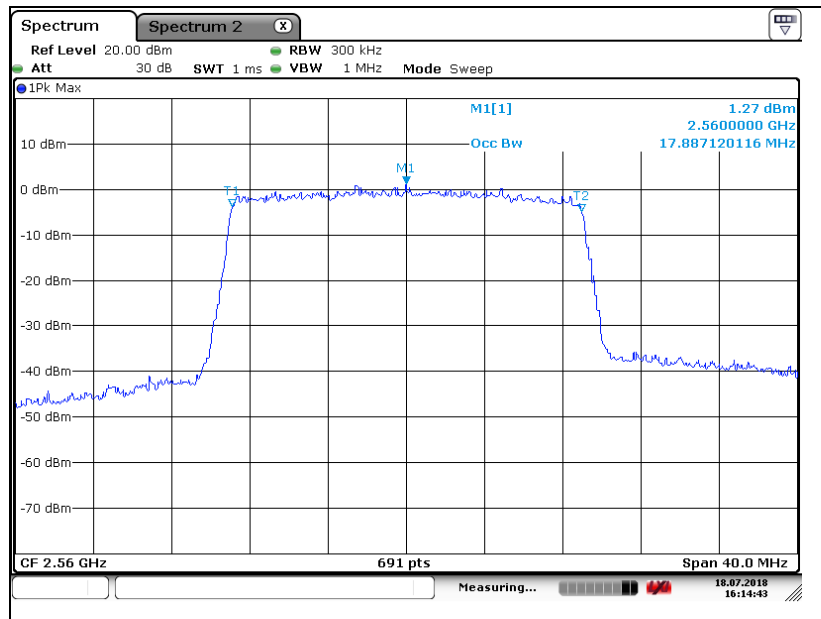


Middle Channel



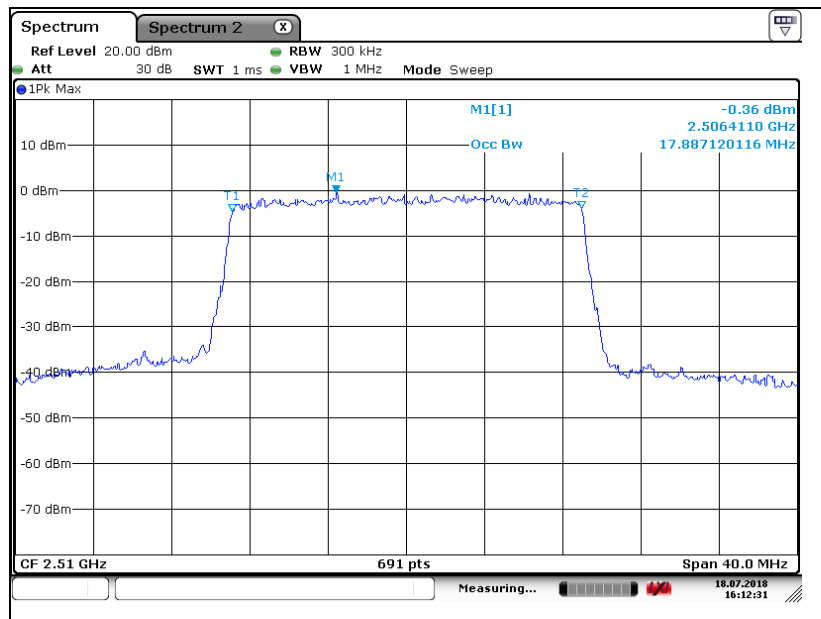
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High Channel



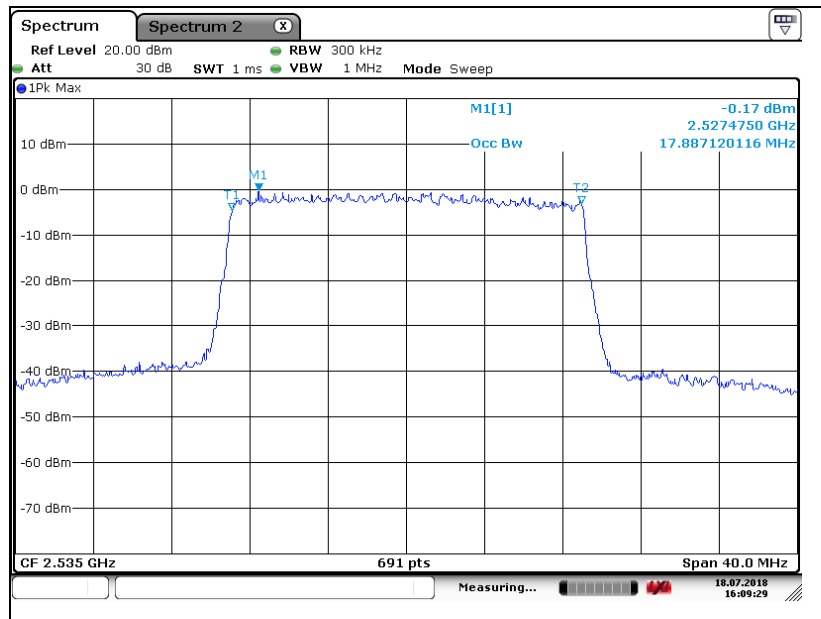
LTE band 7 (20 MHz - 16QAM)

Low Channel

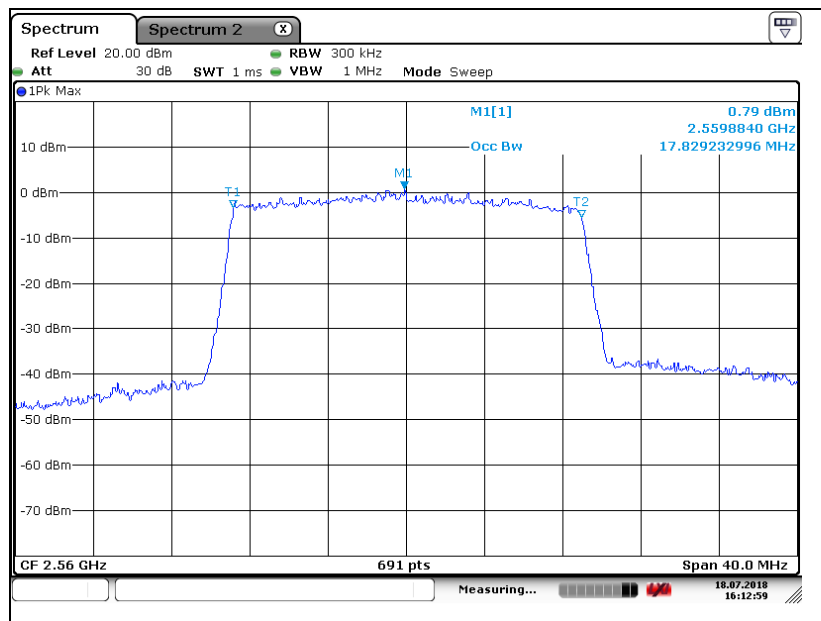


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Middle Channel



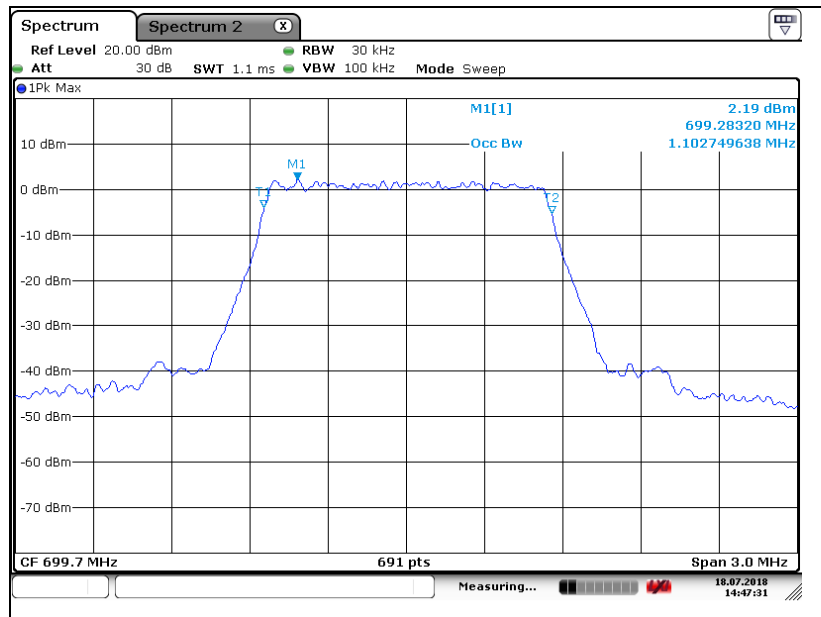
High Channel



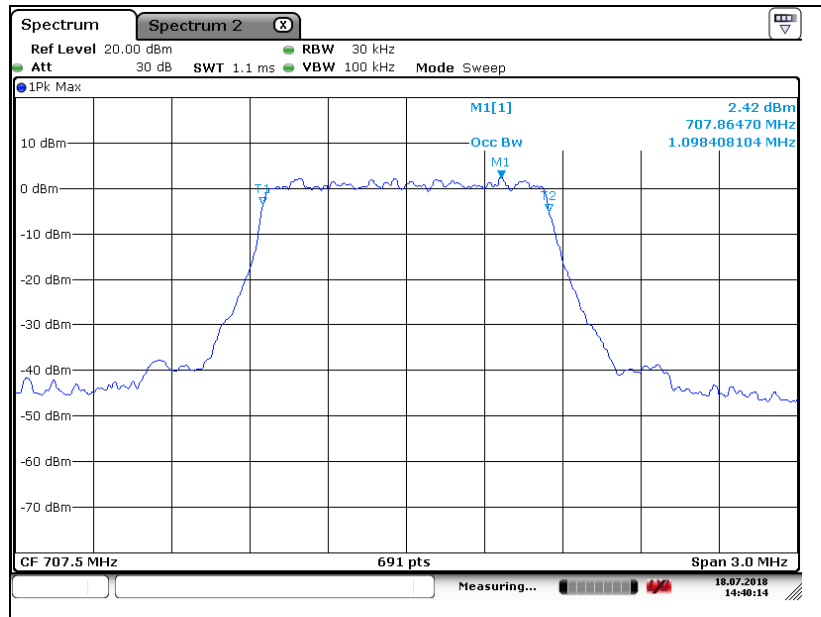
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LTE band 12 (1.4 MHz - QPSK)

Low Channel

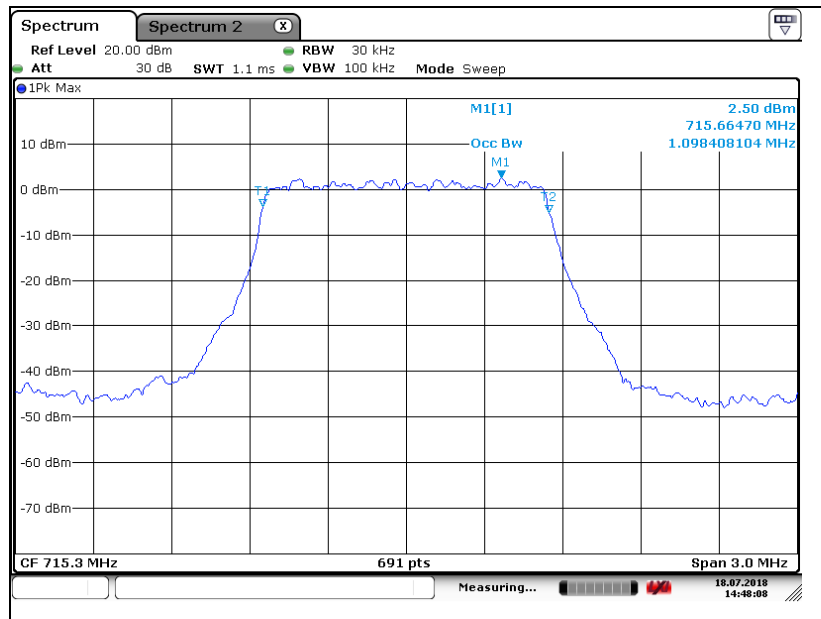


Middle Channel



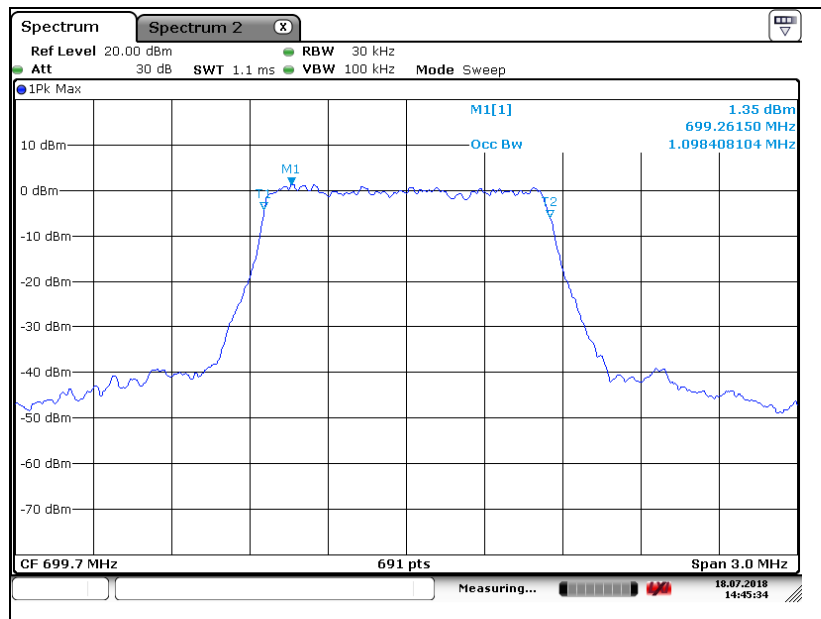
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High Channel



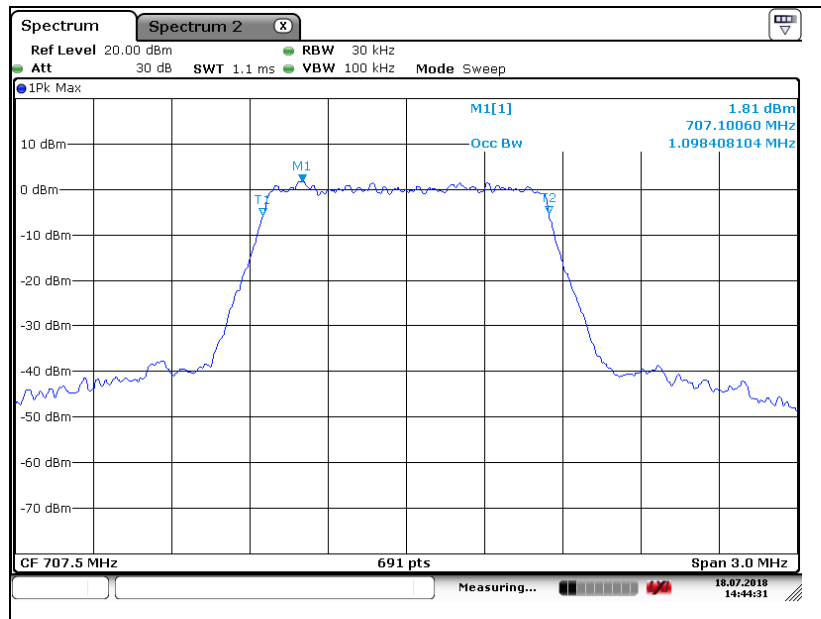
LTE band 12 (1.4 MHz - 16QAM)

Low Channel

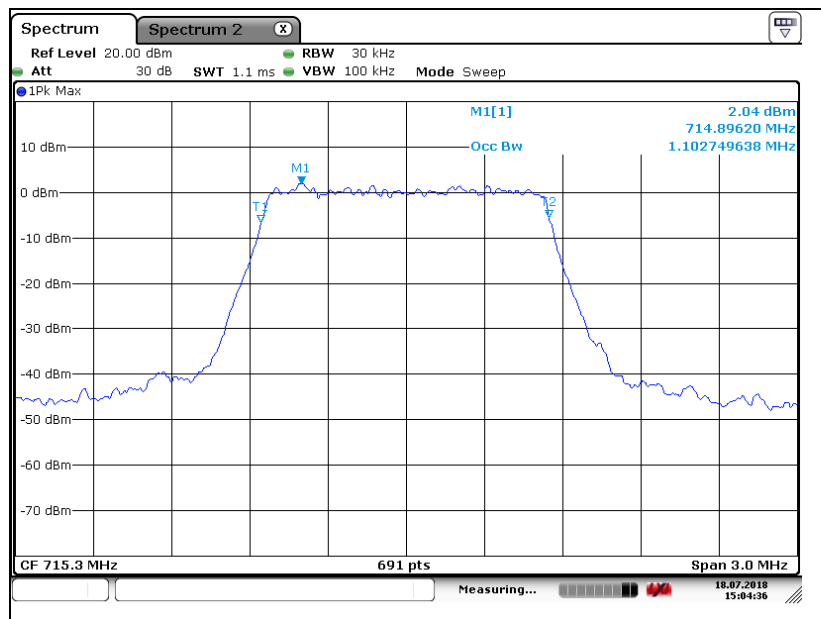


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Middle Channel



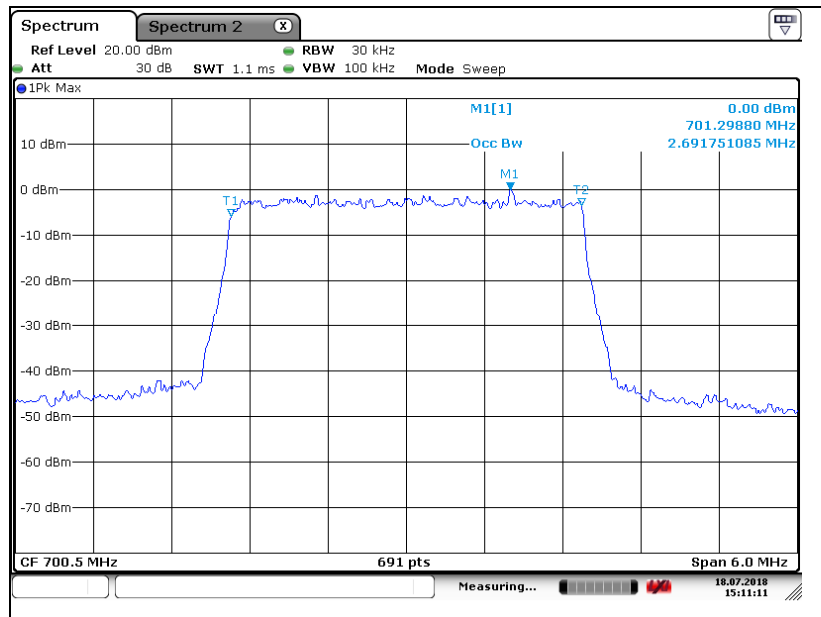
High Channel



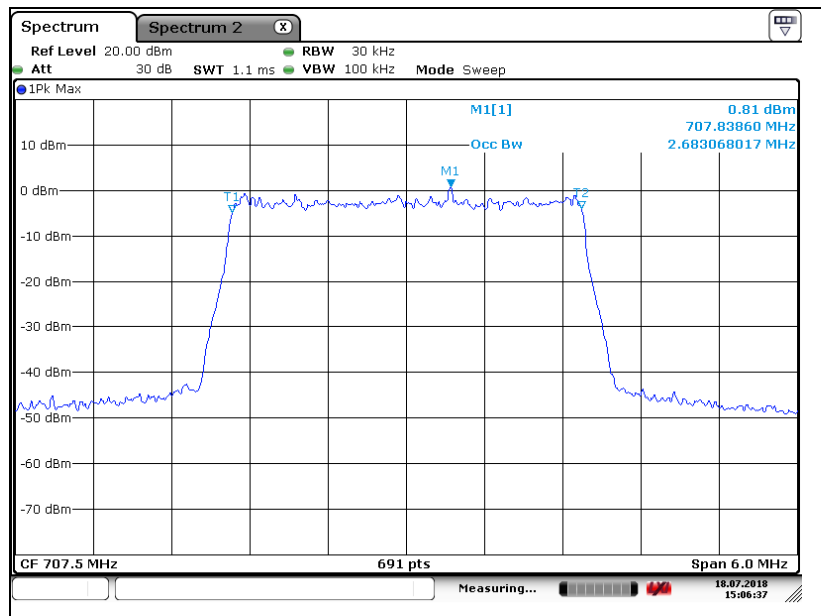
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LTE band 12 (3 MHz - QPSK)

Low Channel

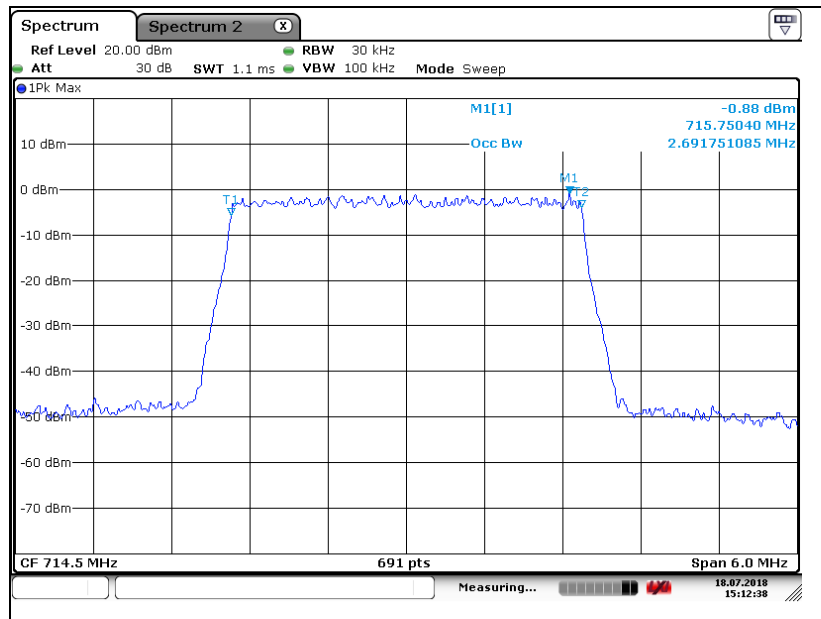


Middle Channel



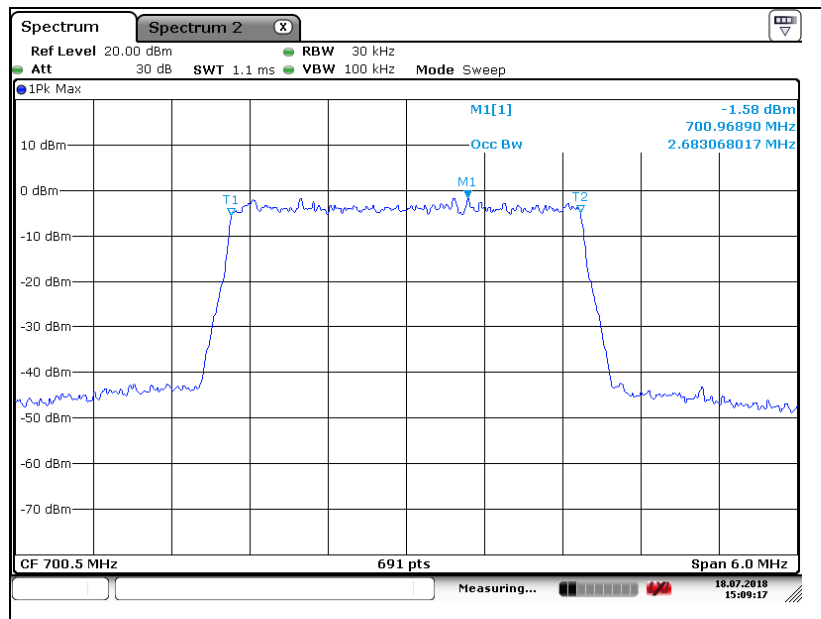
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High Channel



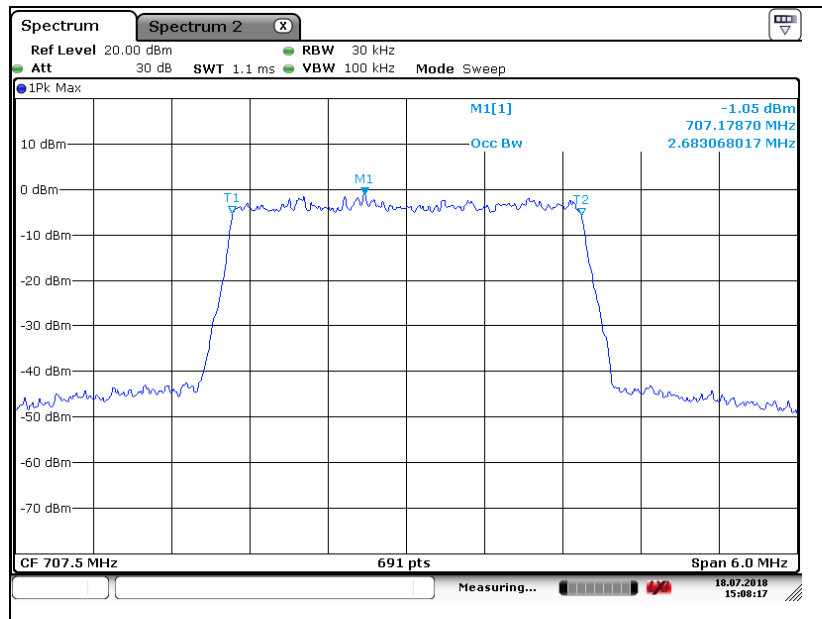
LTE band 12 (3 MHz - 16QAM)

Low Channel

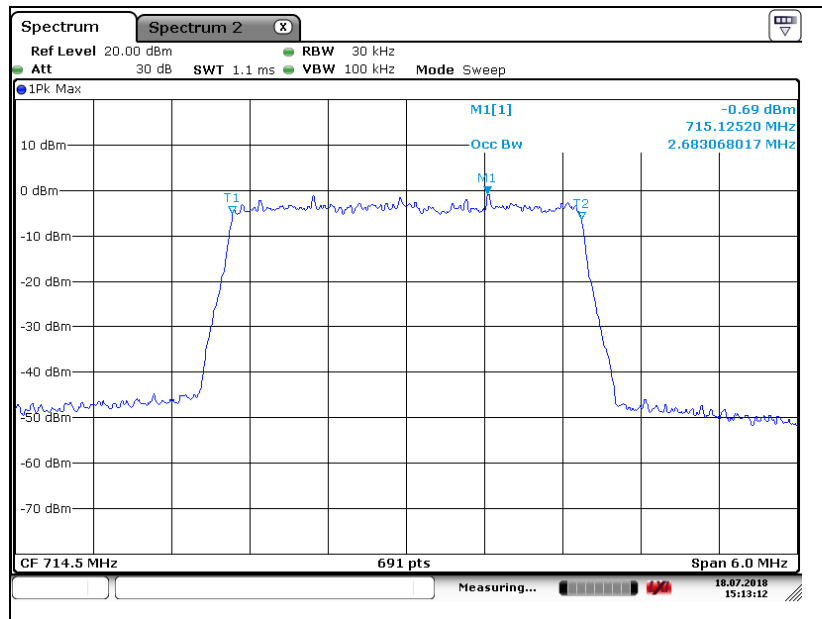


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Middle Channel



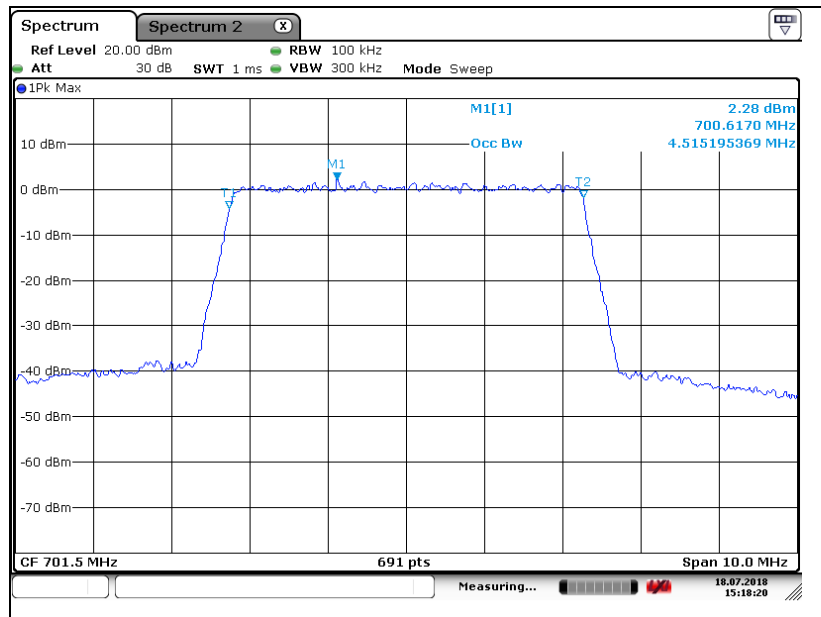
High Channel



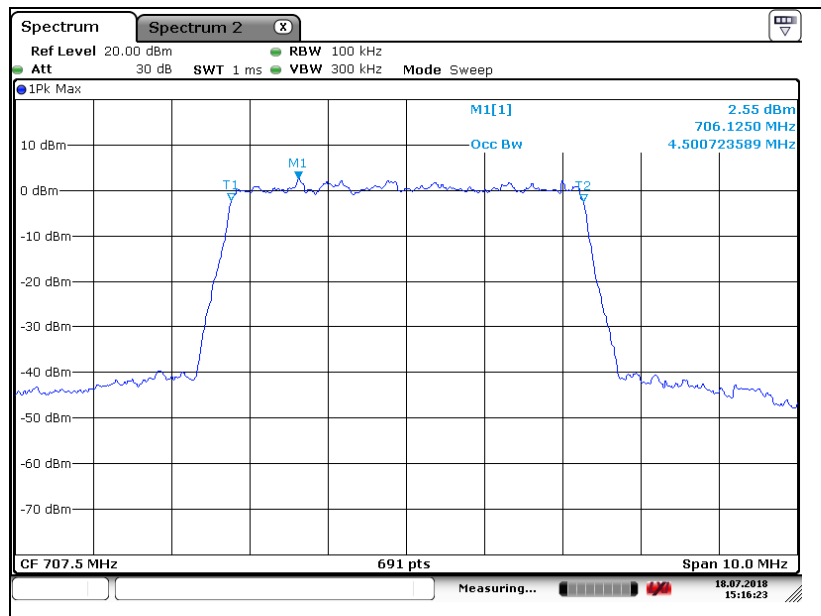
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LTE band 12 (5 MHz - QPSK)

Low Channel

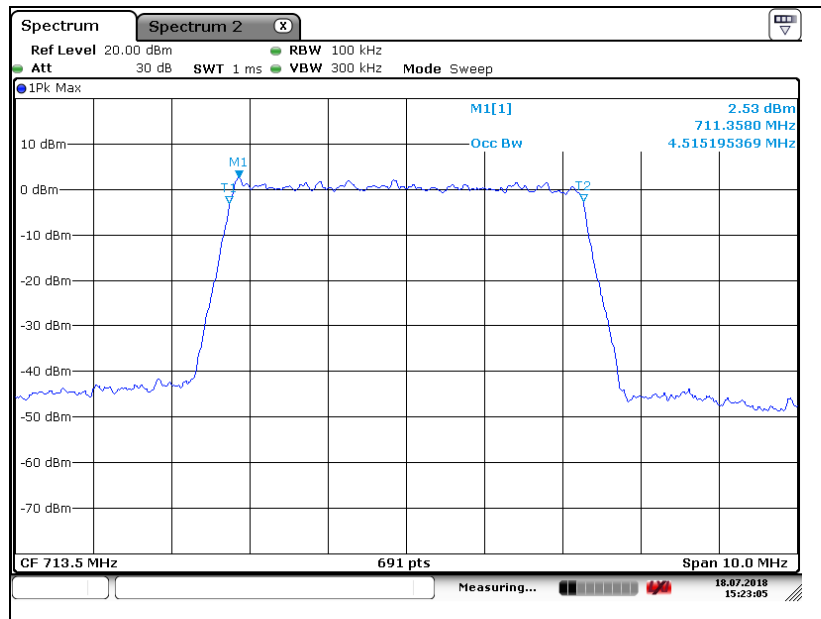


Middle Channel



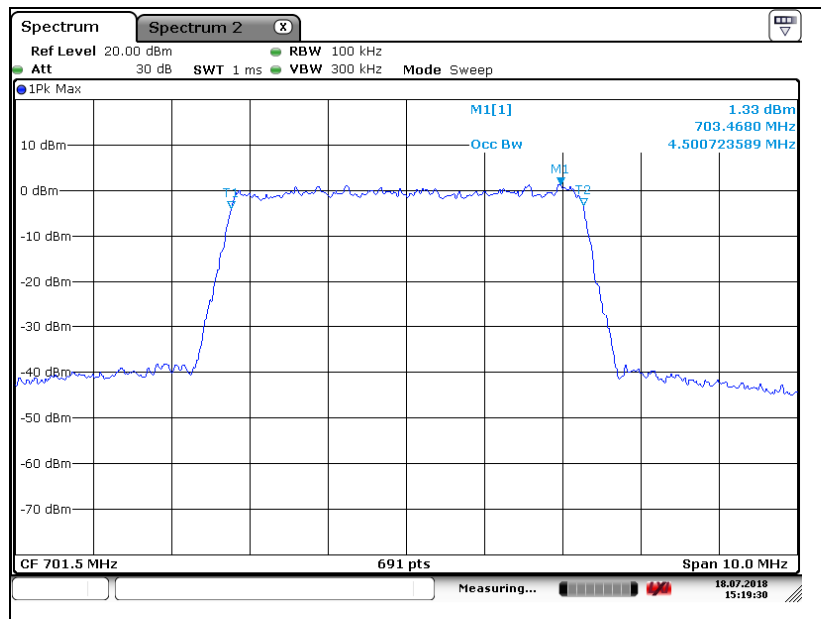
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High Channel



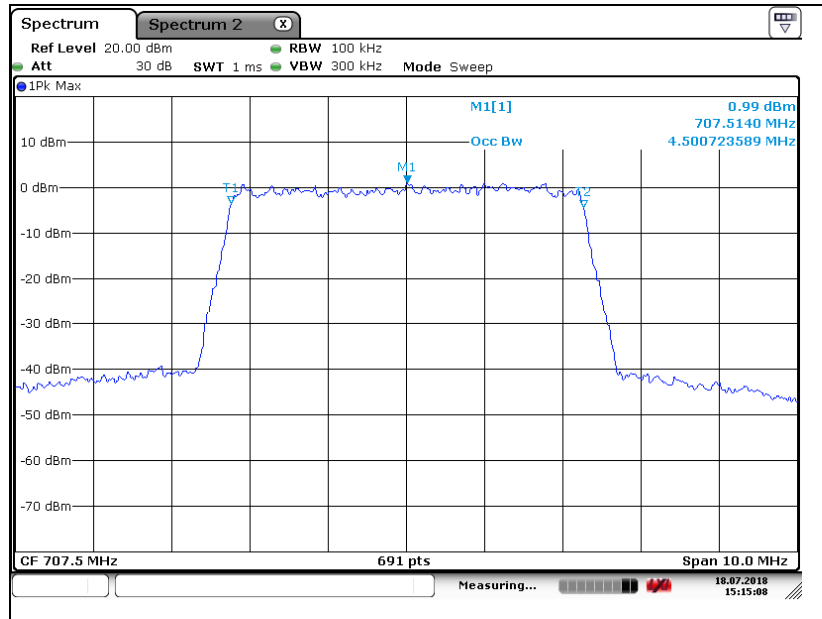
LTE band 12 (5 MHz - 16QAM)

Low Channel

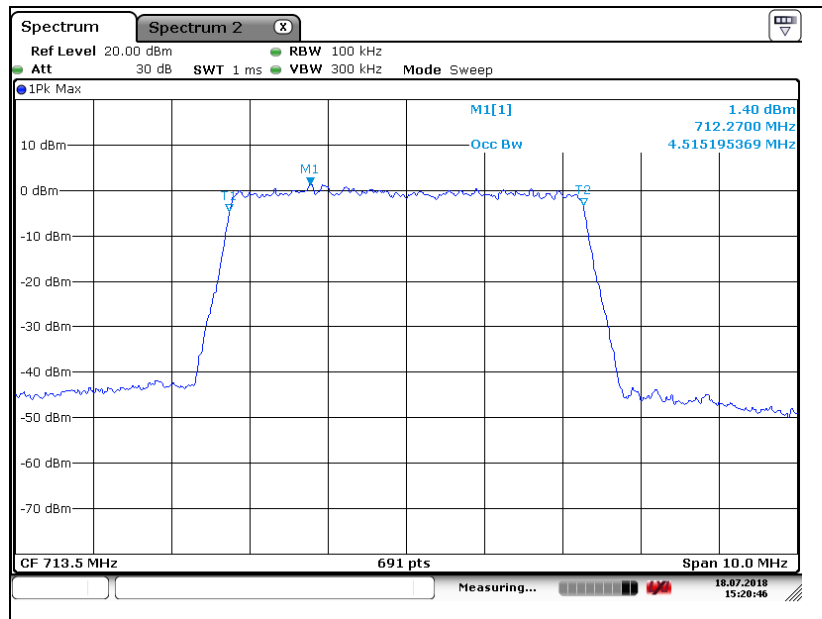


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Middle Channel



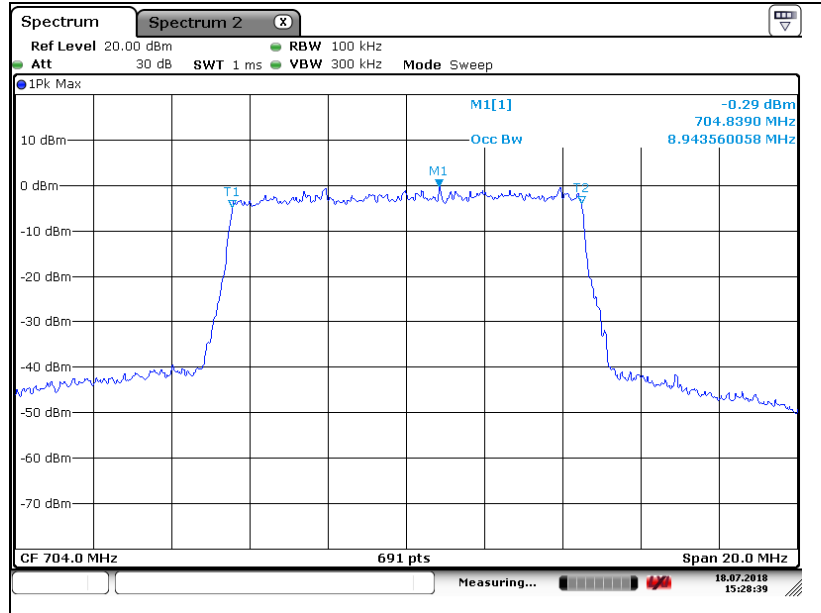
High Channel



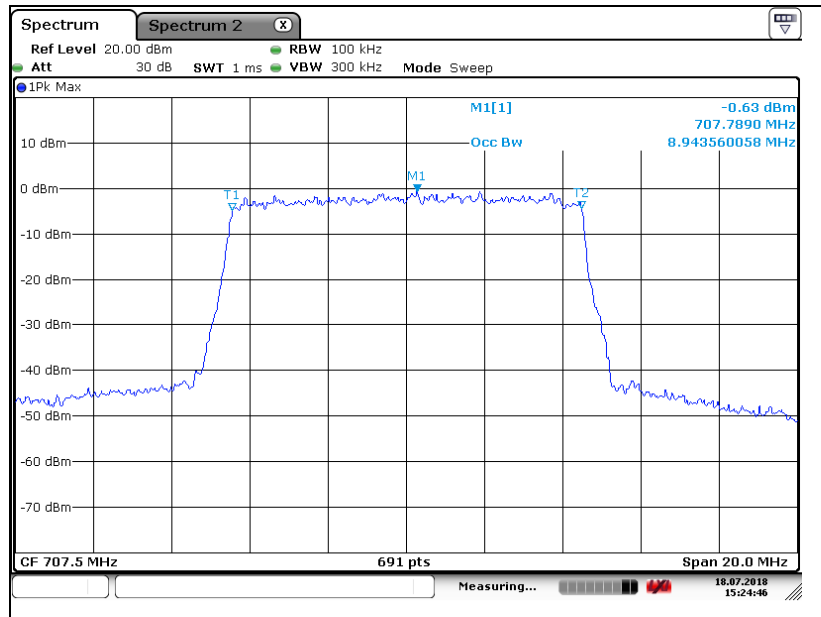
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LTE band 12 (10 MHz - QPSK)

Low Channel

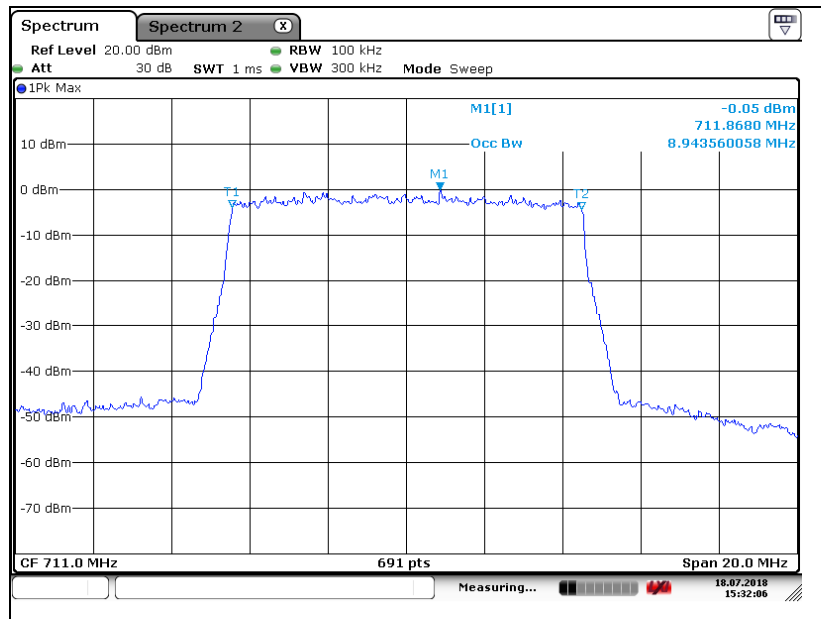


Middle Channel



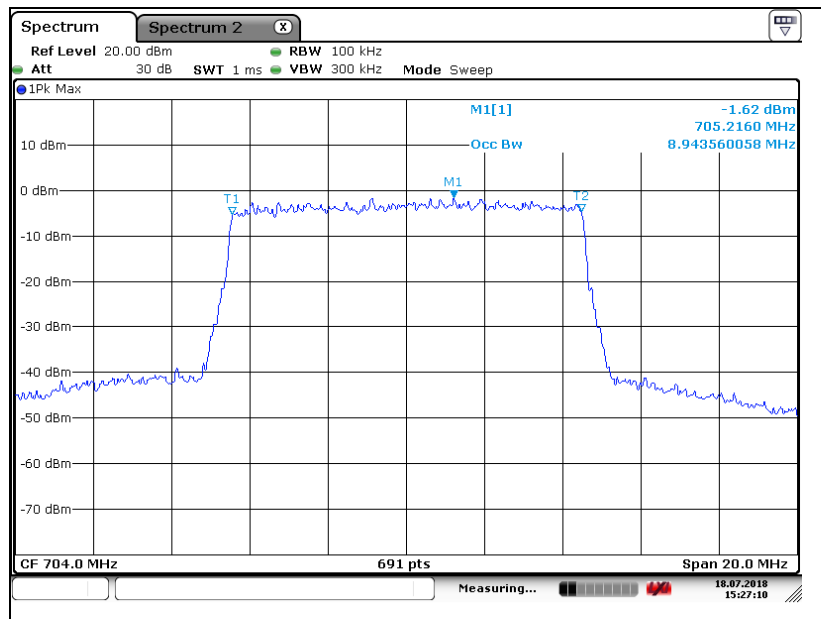
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High Channel



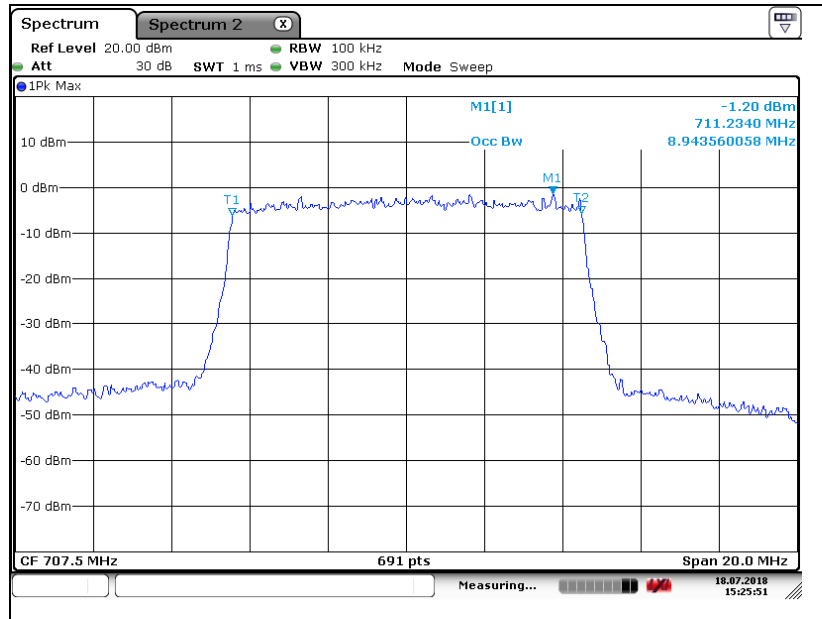
LTE band 12 (10 MHz - 16QAM)

Low Channel

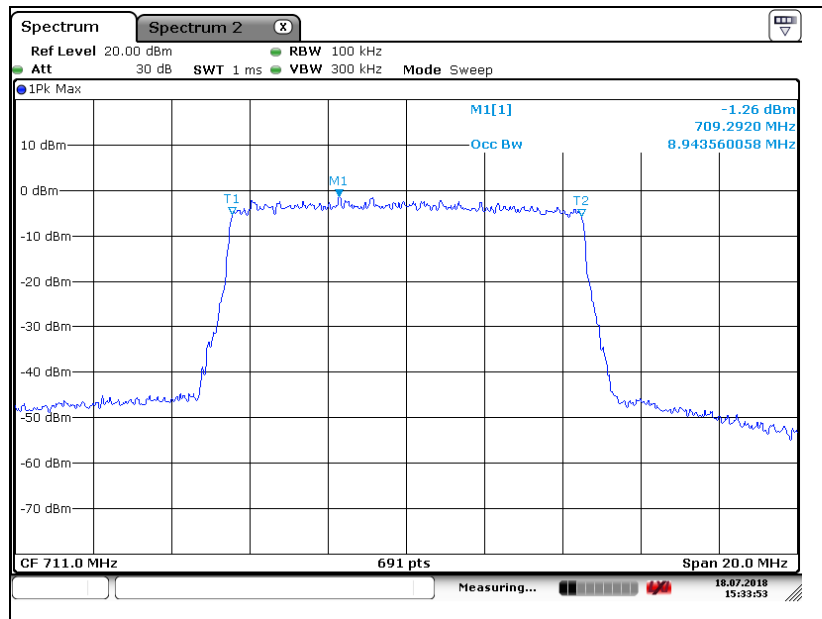


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Middle Channel



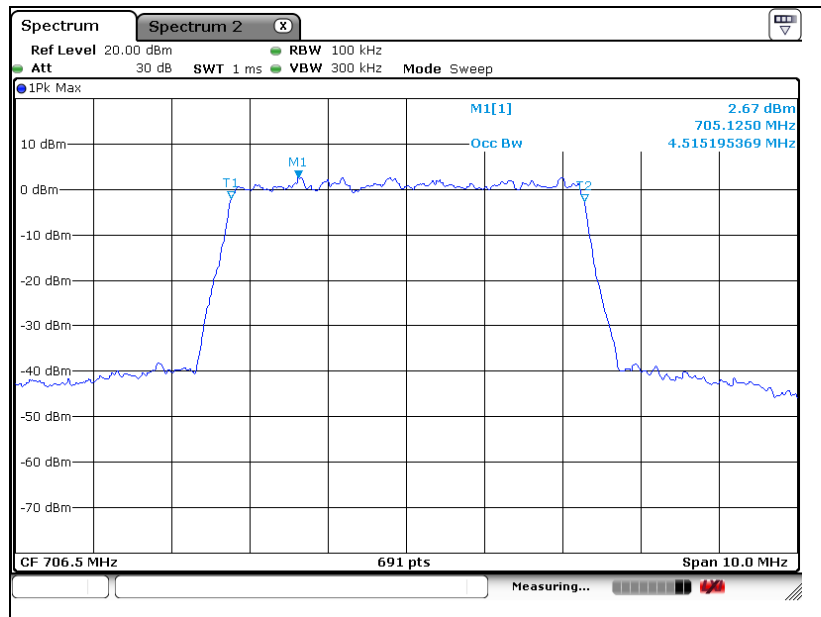
High Channel



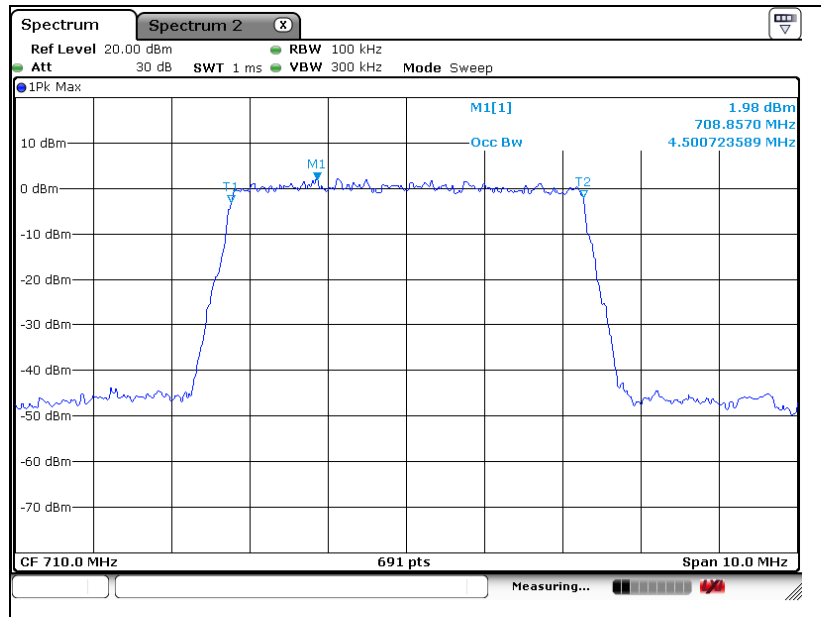
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LTE band 17 (5 MHz - QPSK)

Low Channel

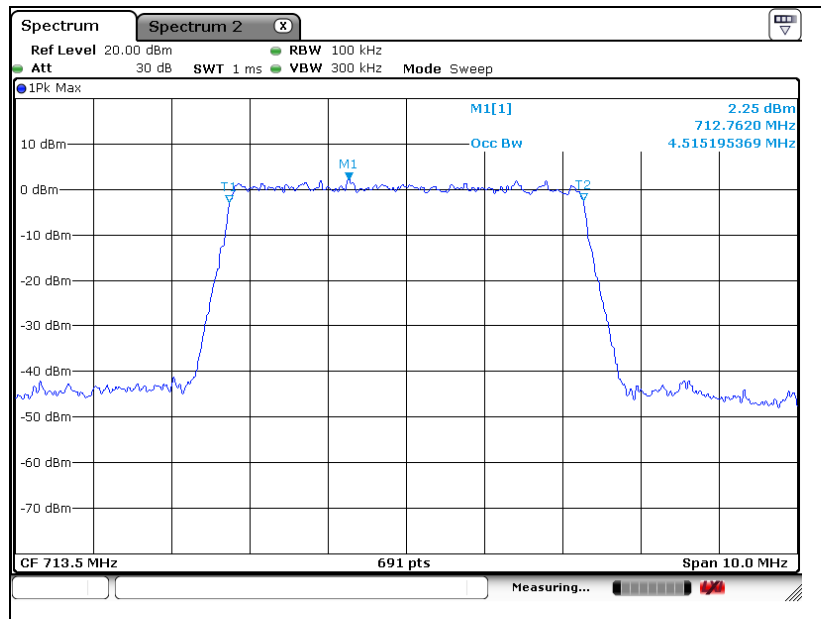


Middle Channel



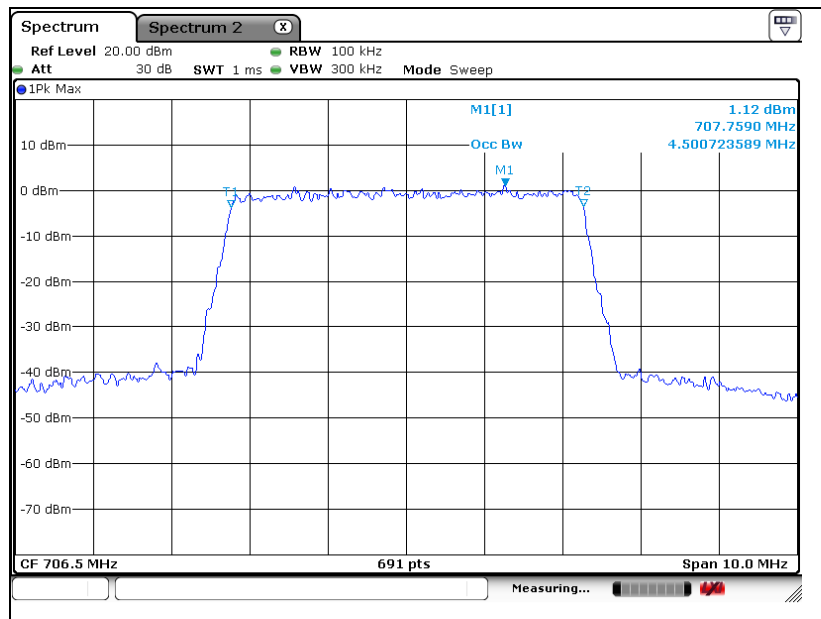
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High Channel



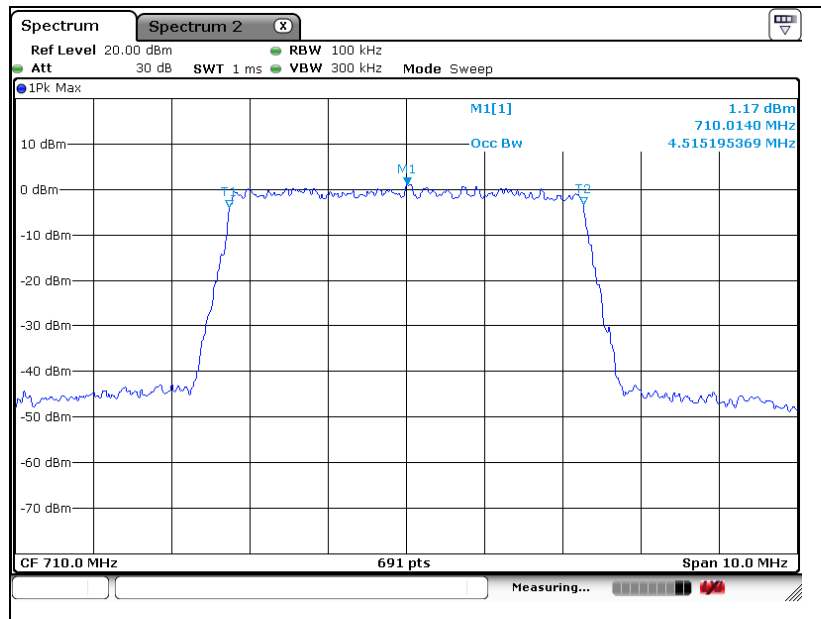
LTE band 17 (5 MHz - 16QAM)

Low Channel

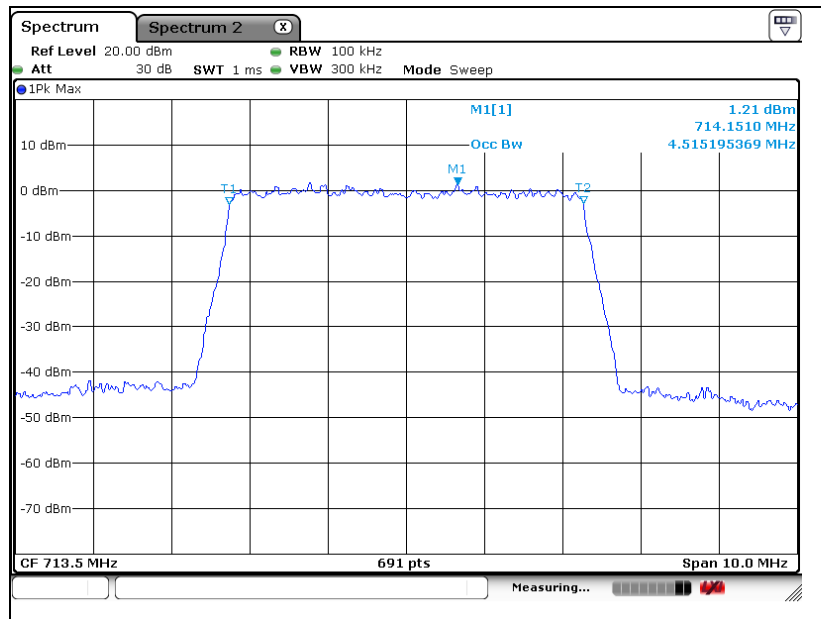


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Middle Channel



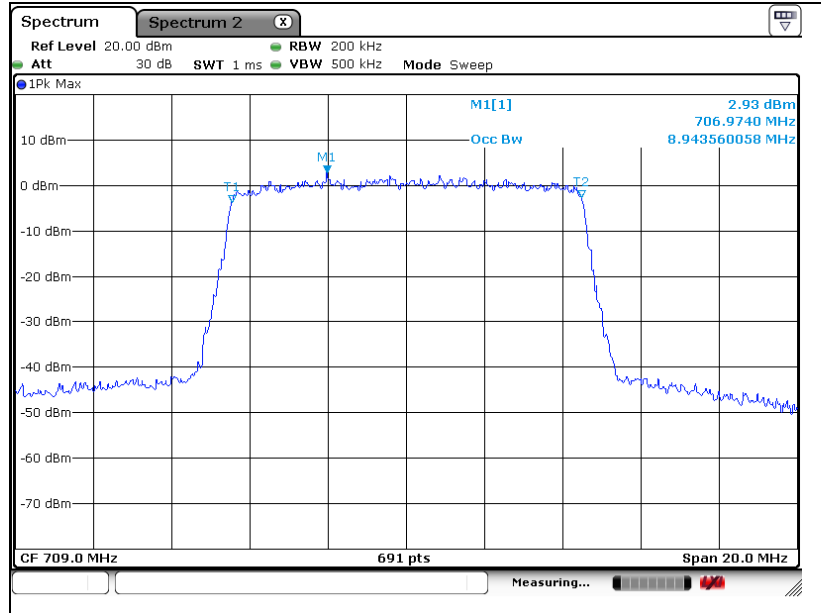
High Channel



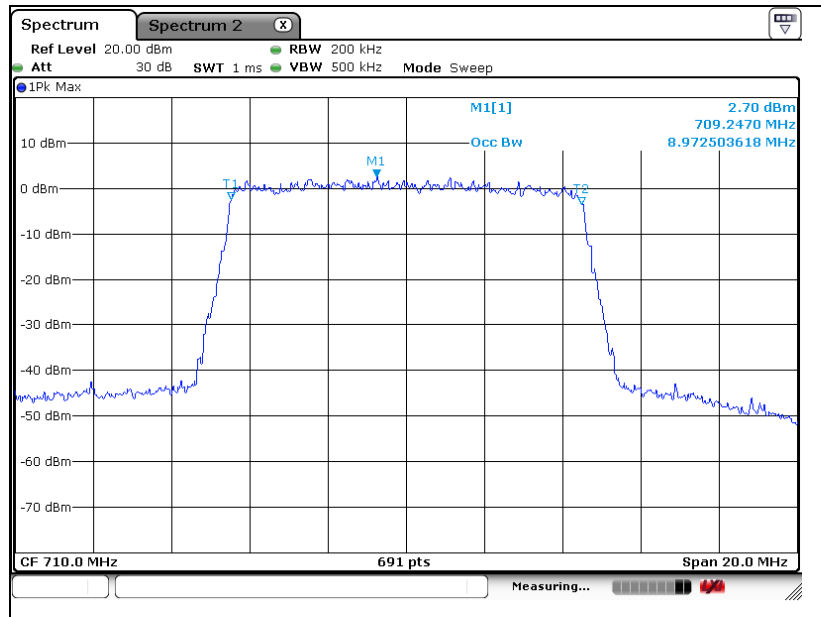
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LTE band 17 (10 MHz - QPSK)

Low Channel

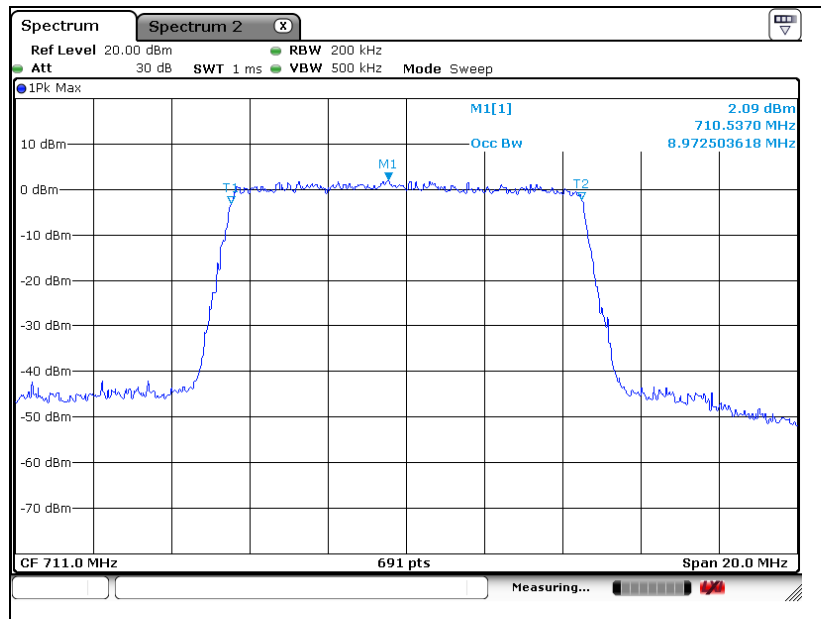


Middle Channel



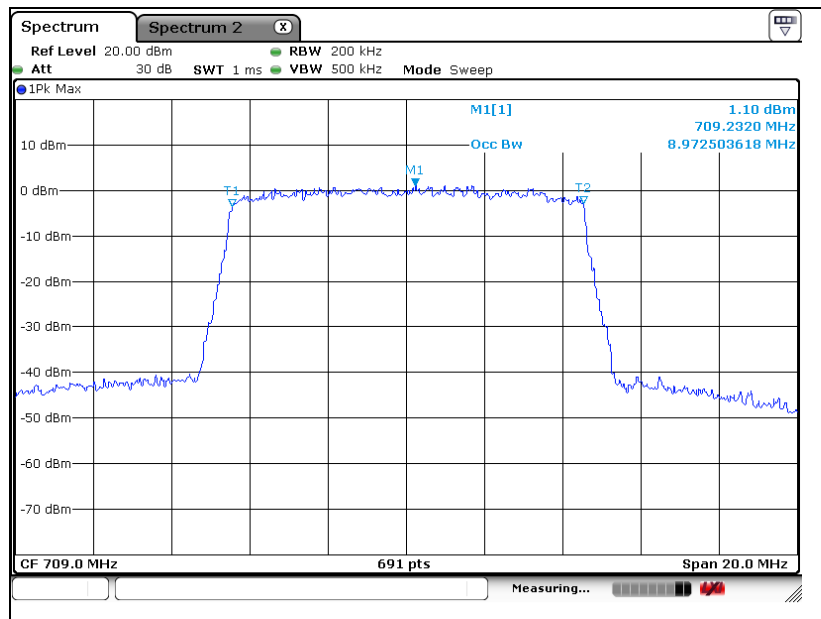
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High Channel



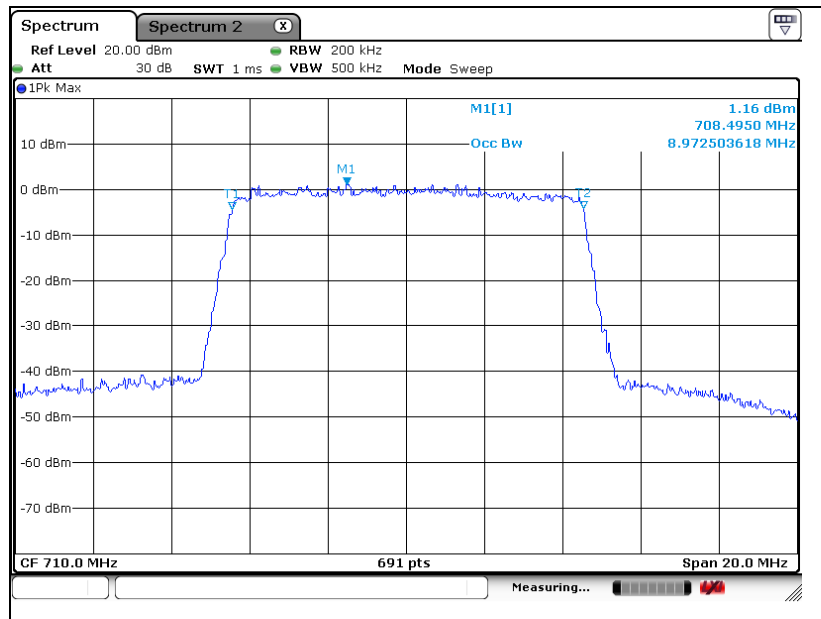
LTE band 17 (10 MHz - 16QAM)

Low Channel

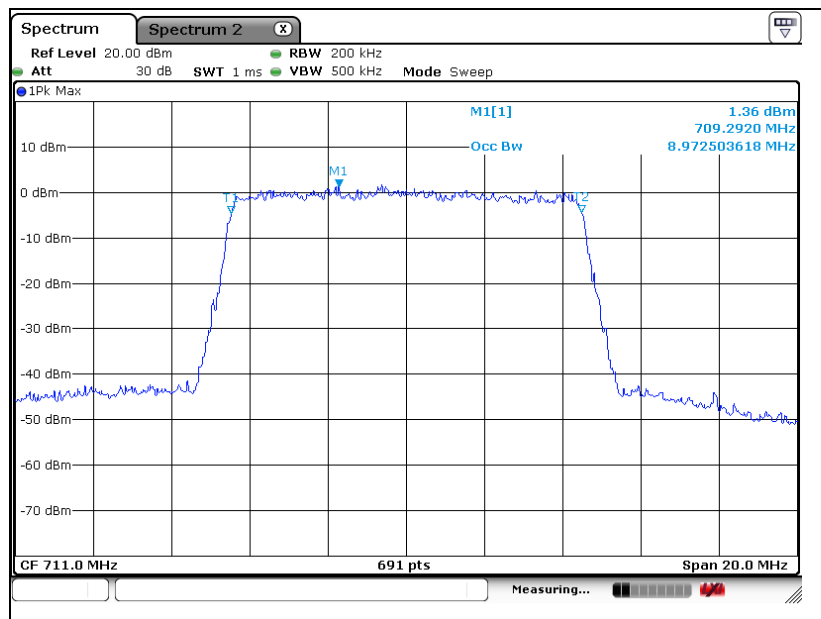


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Middle Channel



High Channel

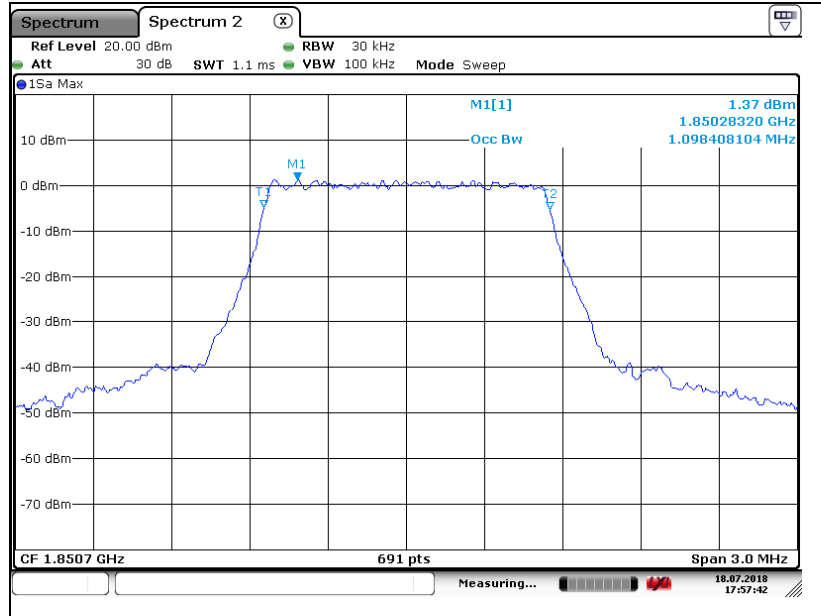


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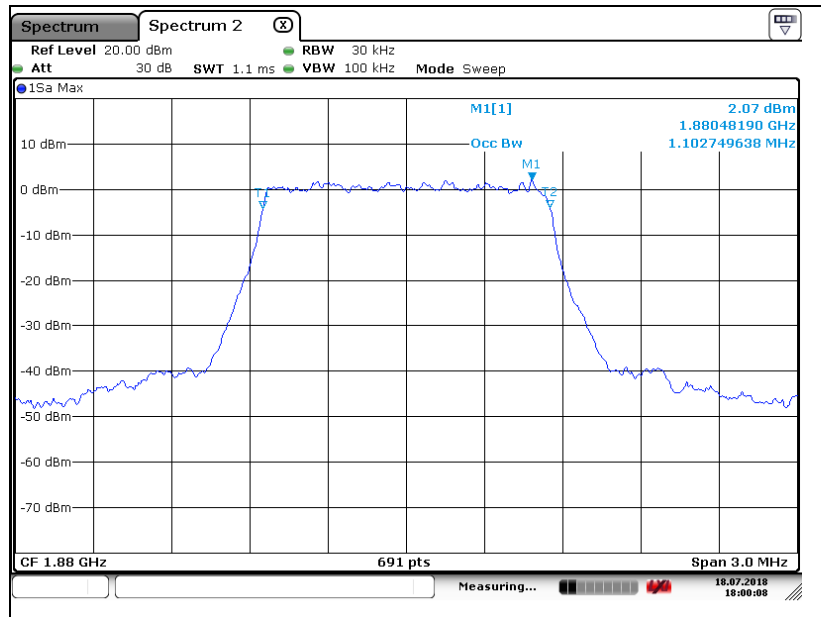
IC

LTE band 2 (1.4 MHz - QPSK)

Low Channel

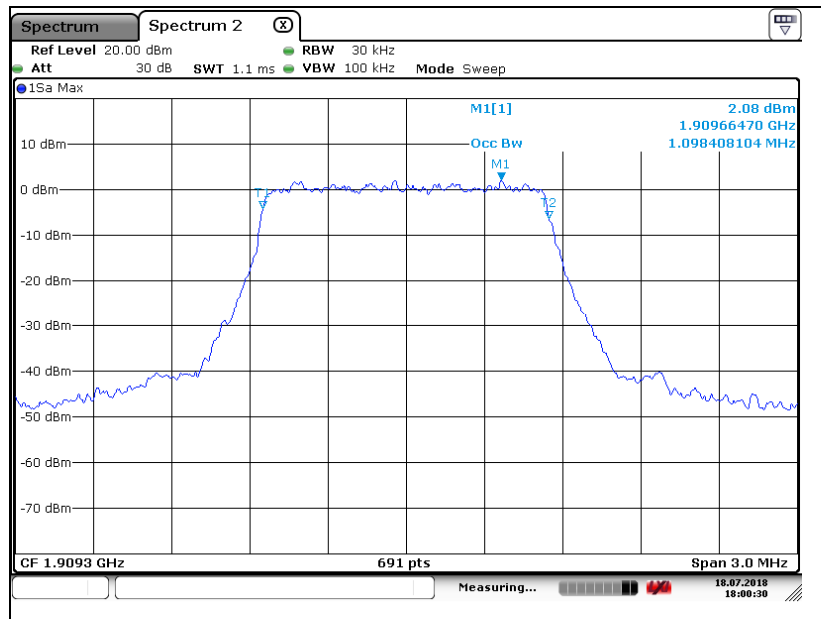


Middle Channel



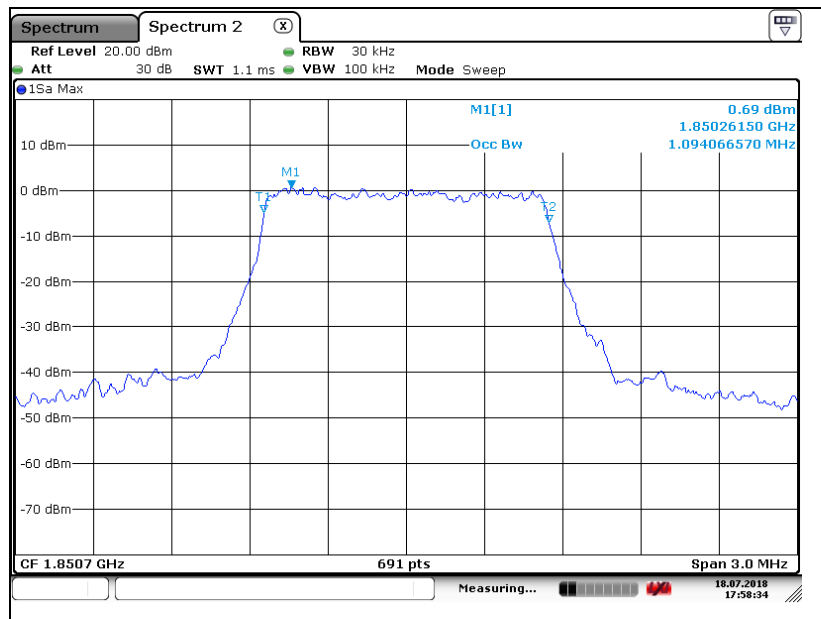
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High Channel



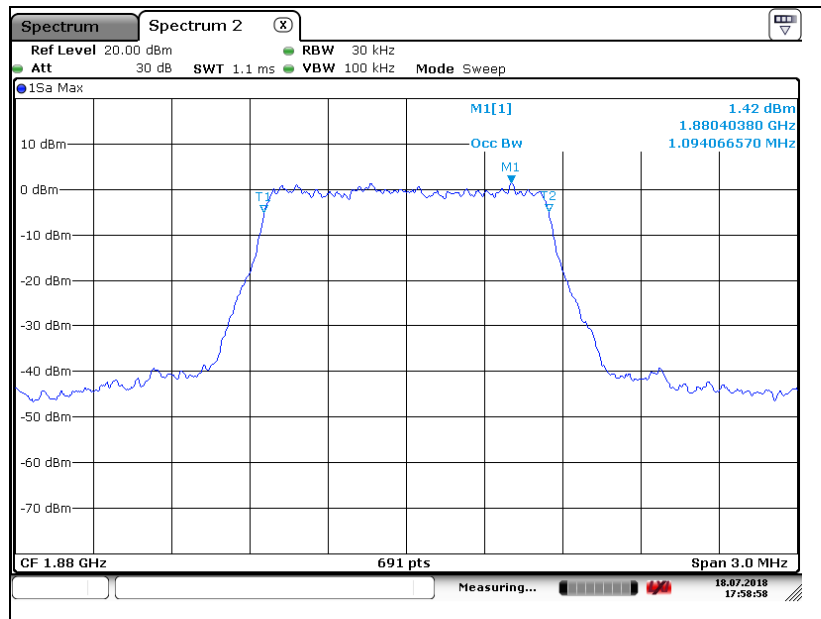
LTE band 2 (1.4 MHz - 16QAM)

Low Channel

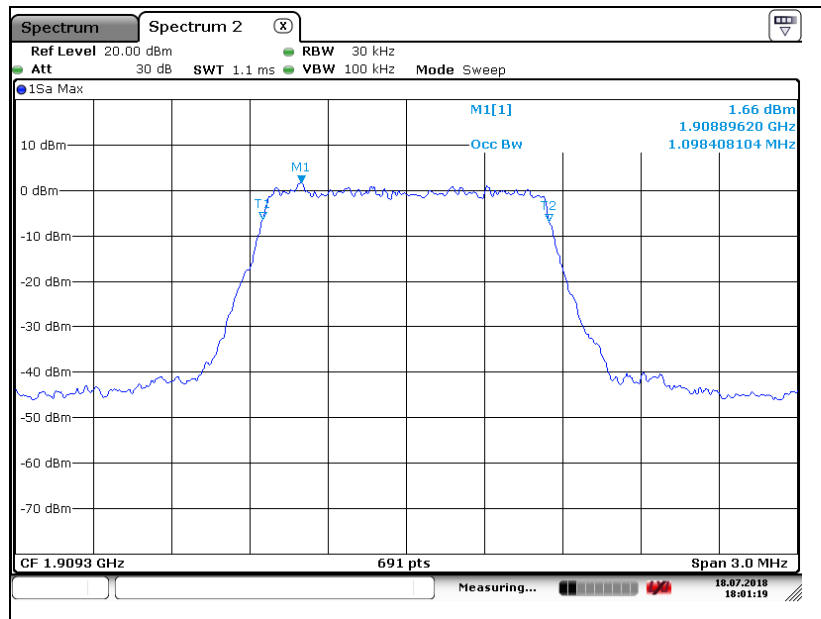


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Middle Channel



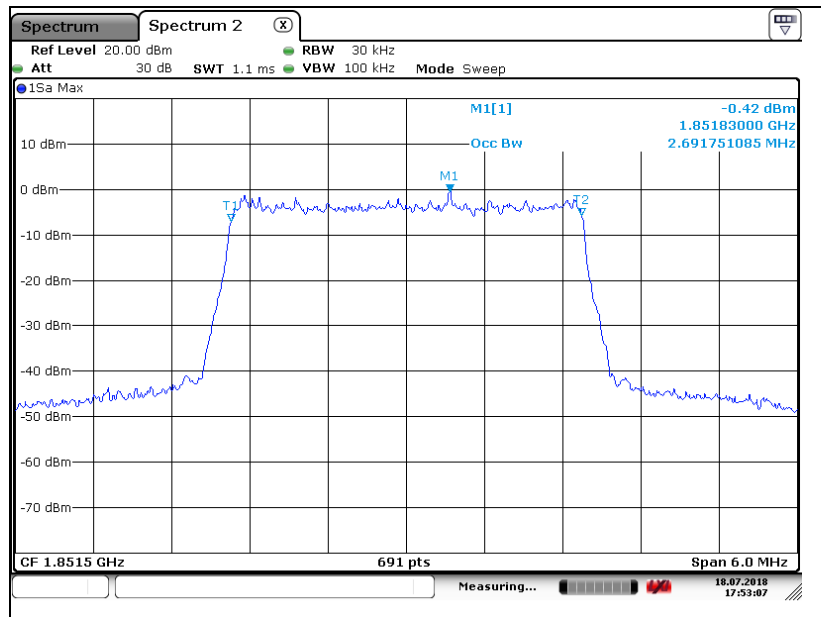
High Channel



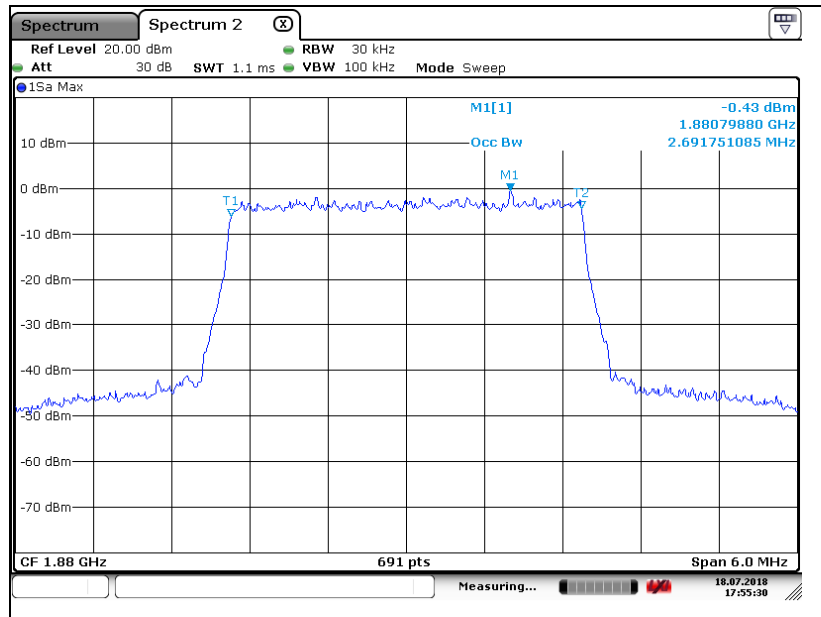
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LTE band 2 (3 MHz - QPSK)

Low Channel

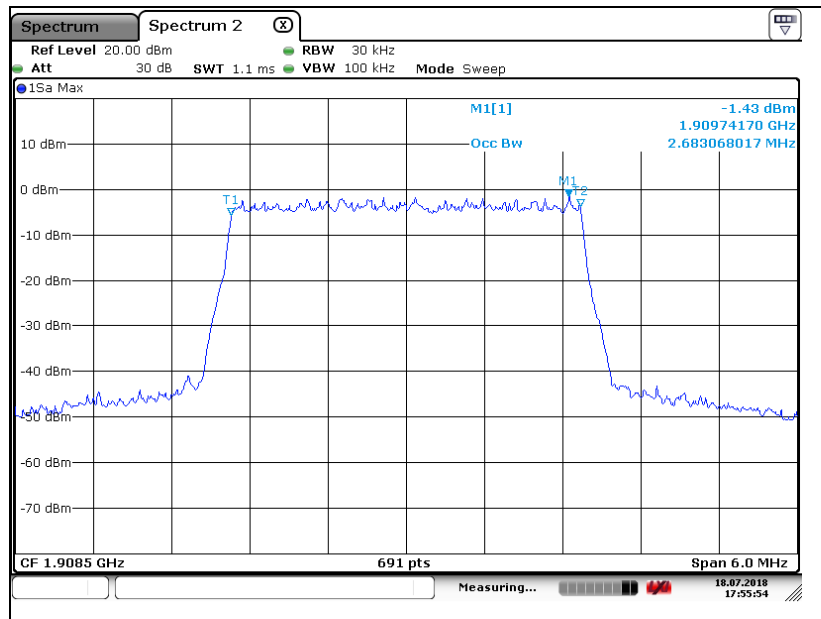


Middle Channel



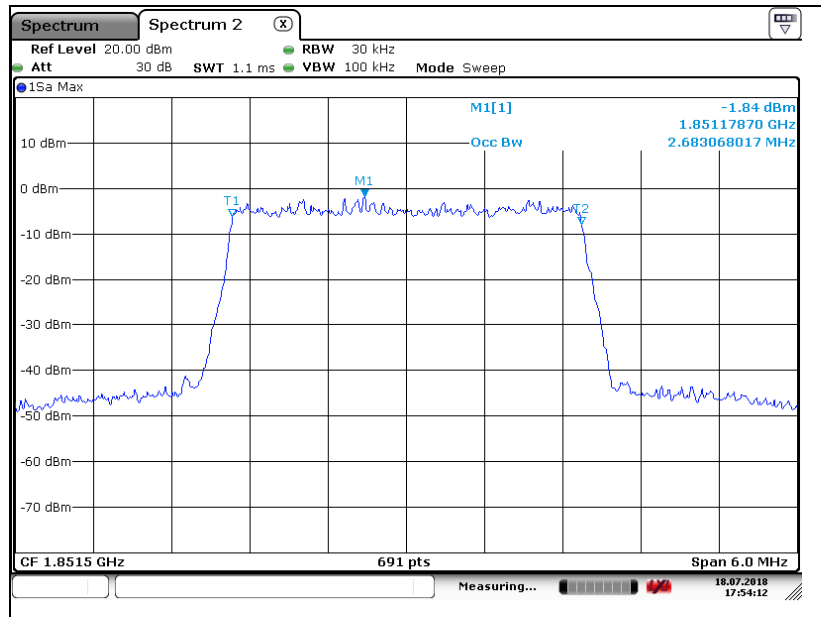
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High Channel



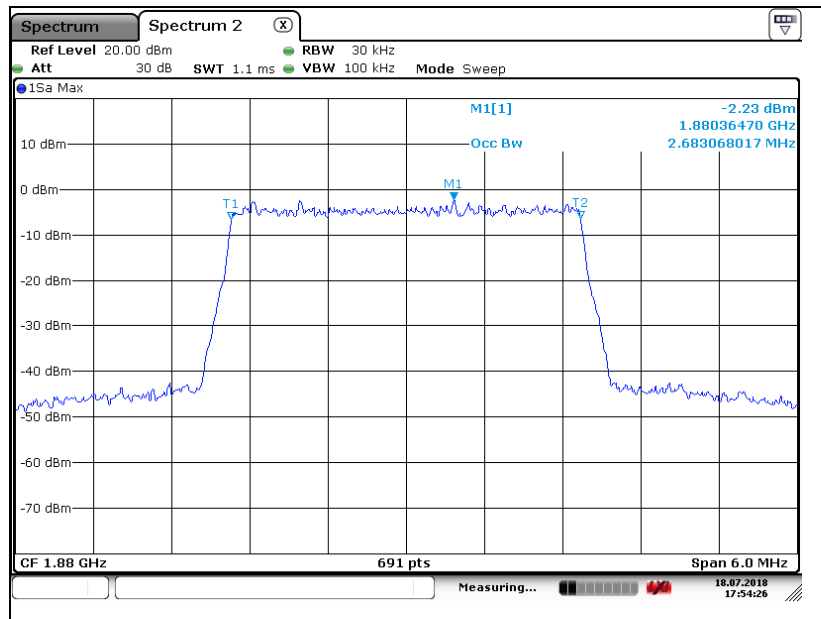
LTE band 2 (3 MHz - 16QAM)

Low Channel

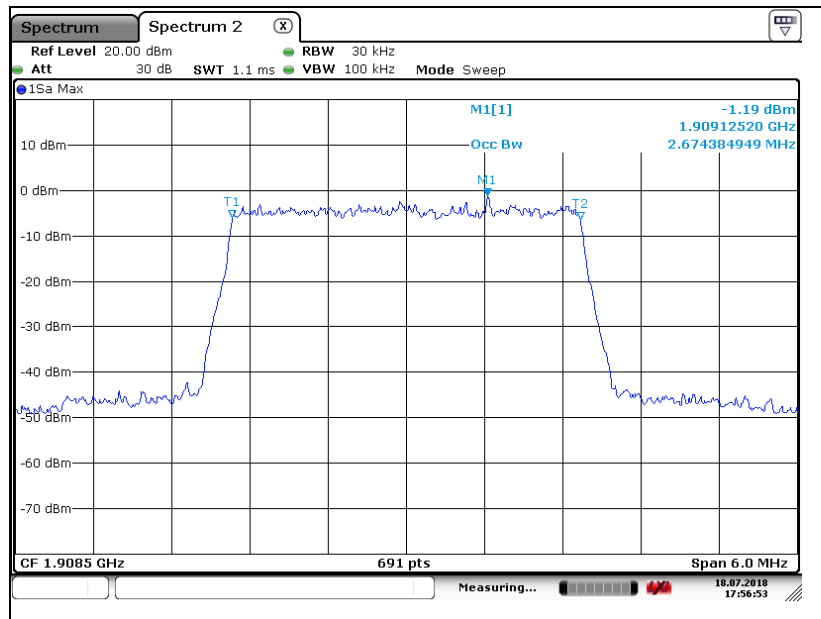


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Middle Channel



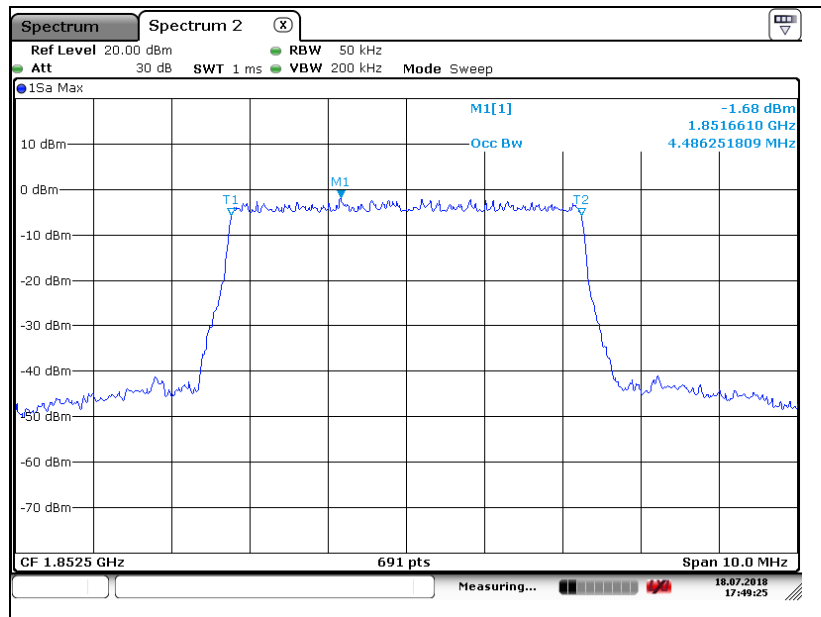
High Channel



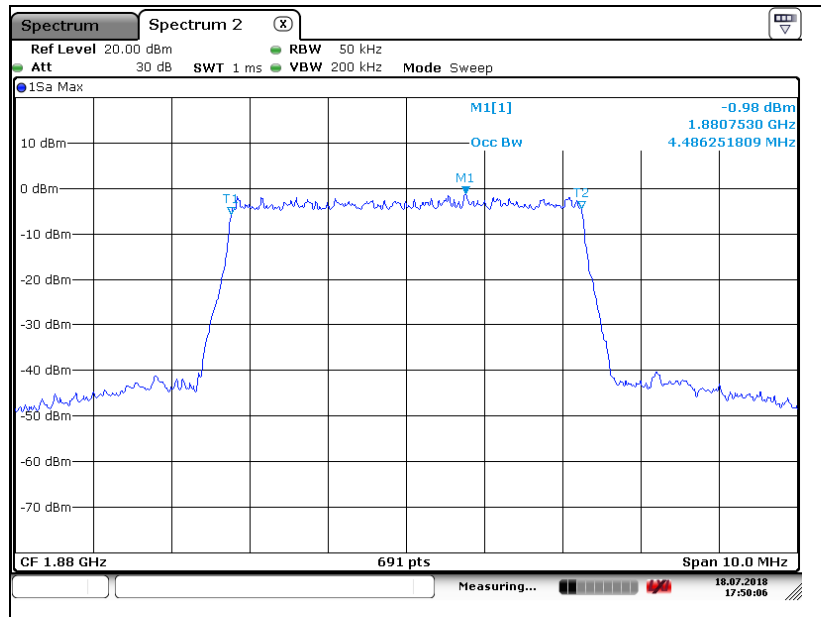
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LTE band 2 (5 MHz - QPSK)

Low Channel

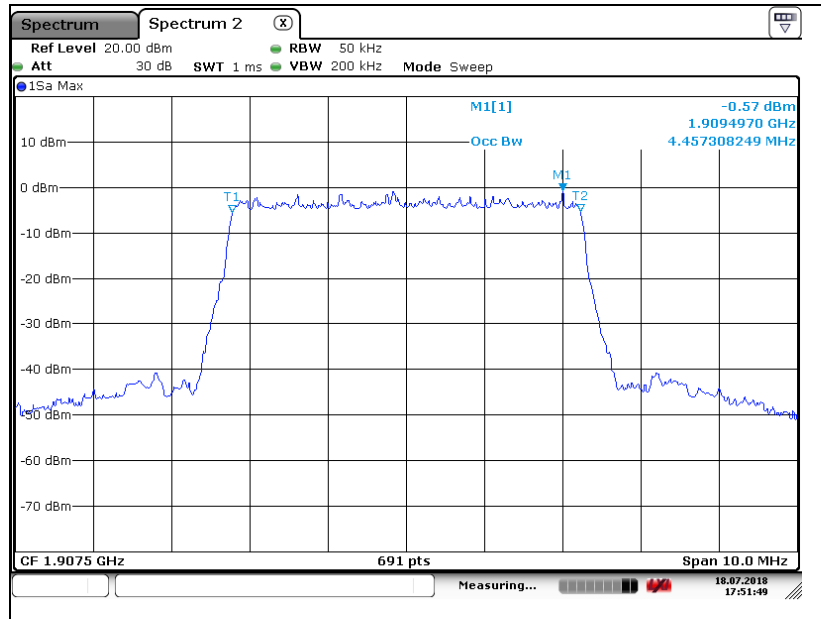


Middle Channel



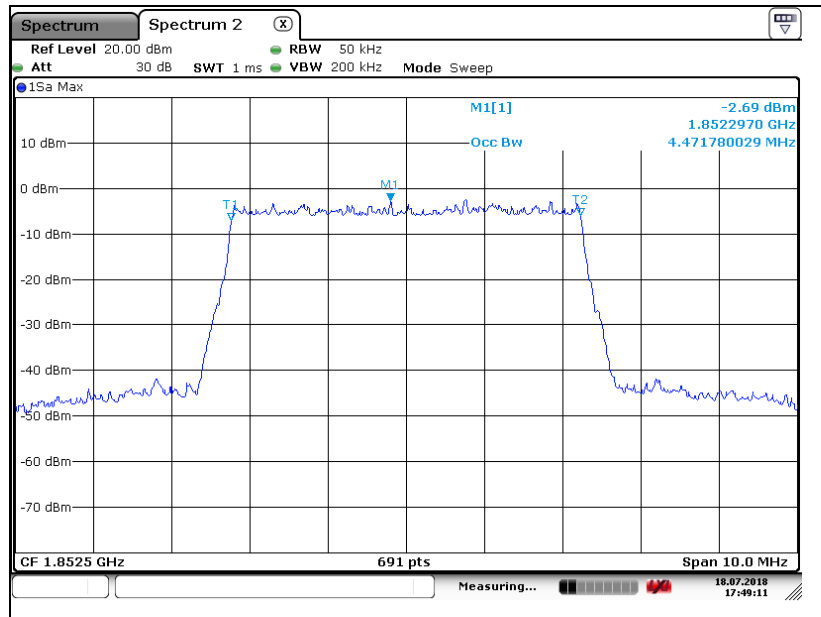
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High Channel



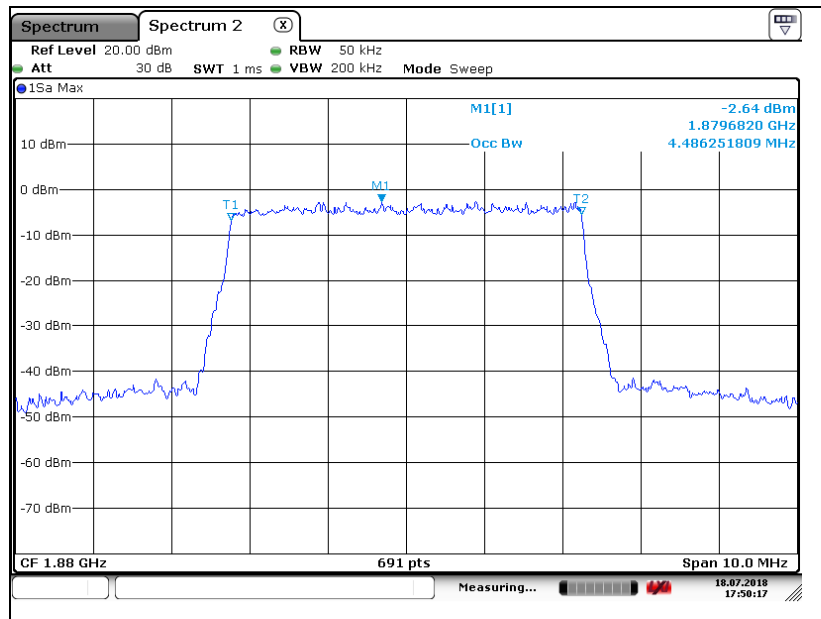
LTE band 2 (5 MHz - 16QAM)

Low Channel

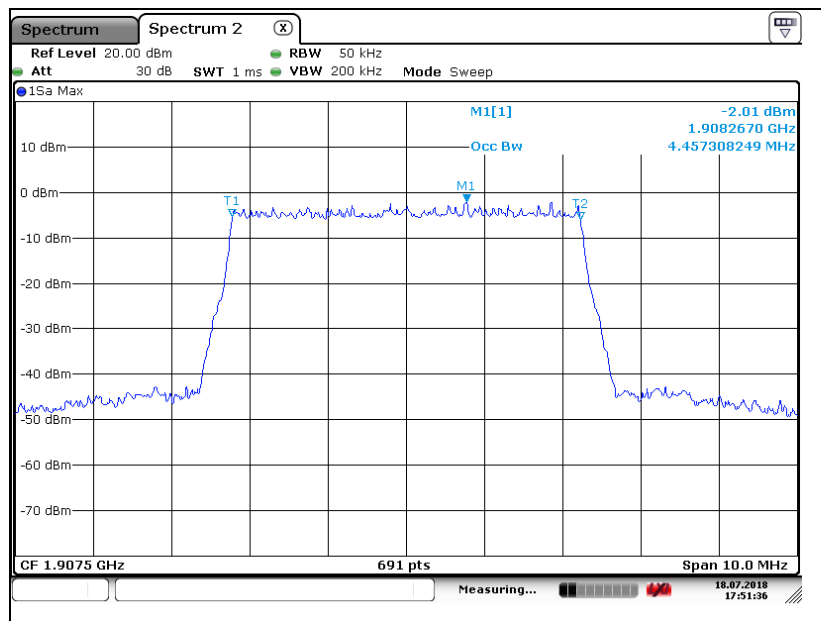


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Middle Channel



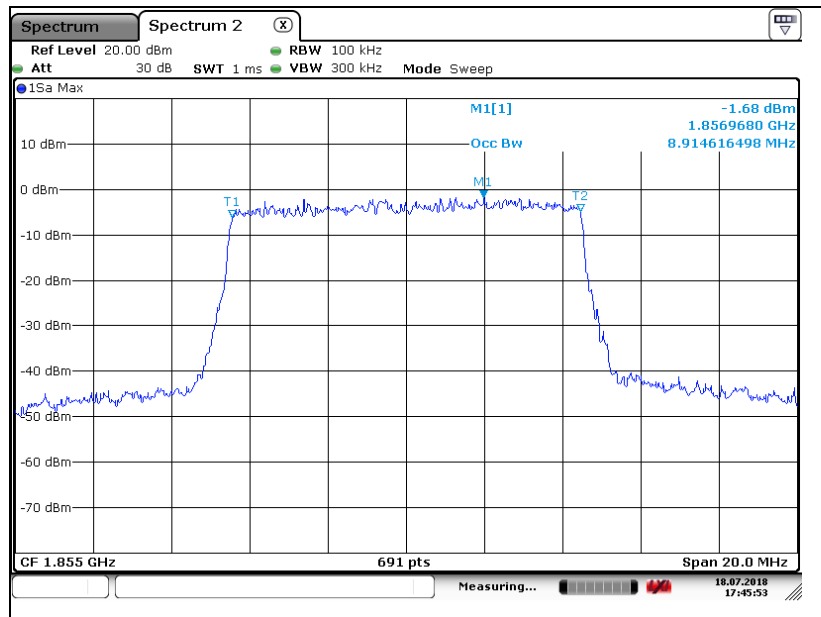
High Channel



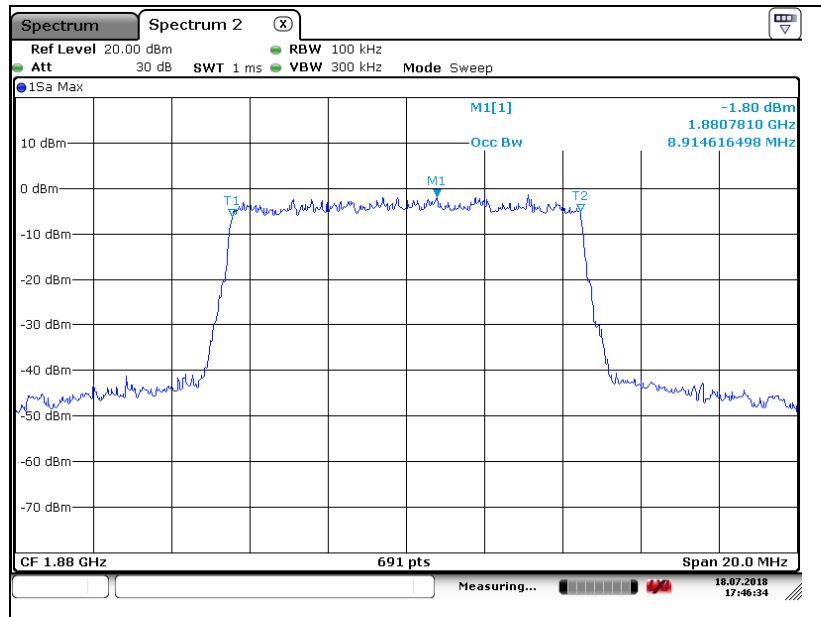
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LTE band 2 (10 MHz - QPSK)

Low Channel

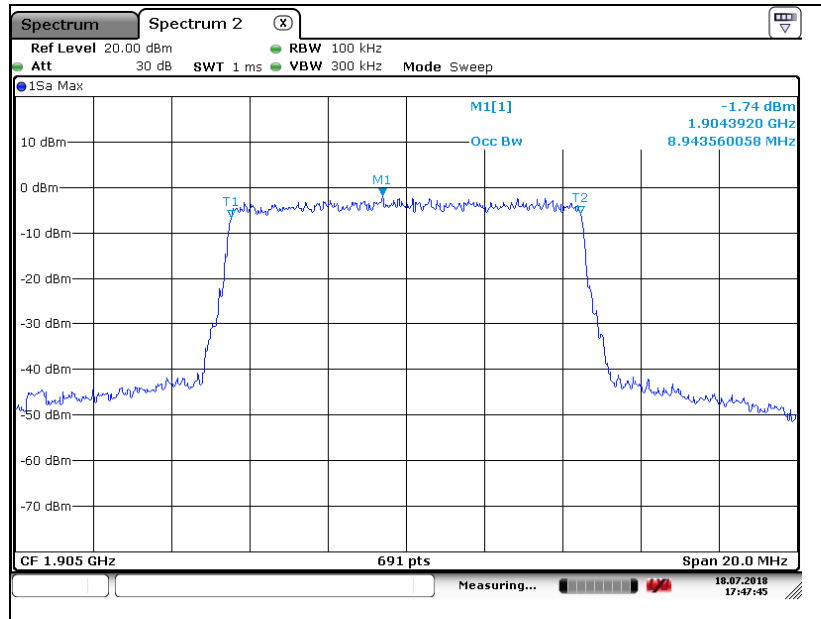


Middle Channel



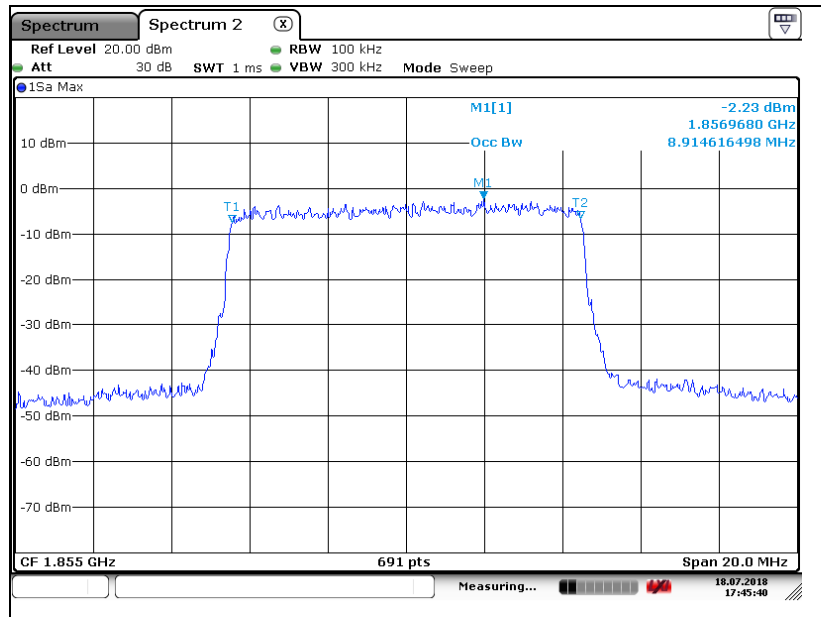
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High Channel



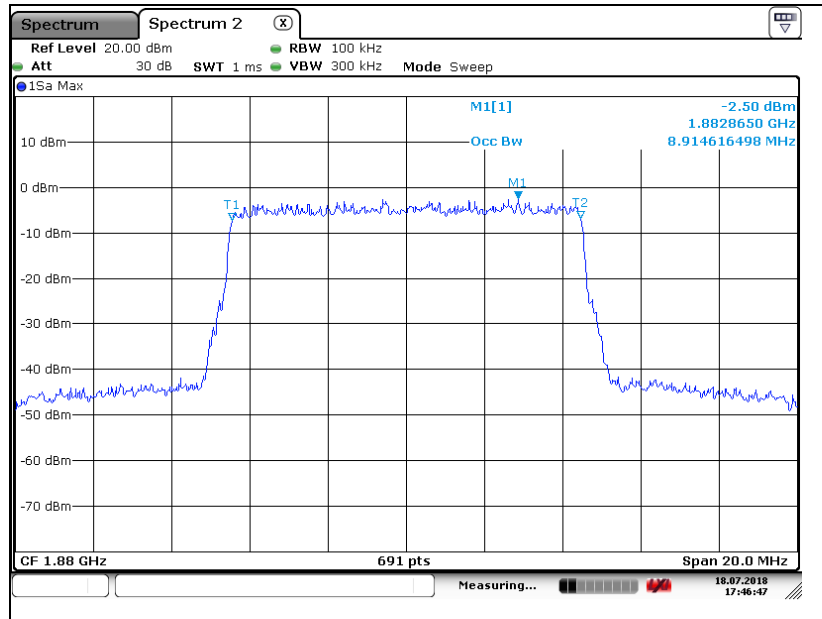
LTE band 2 (10 MHz - 16QAM)

Low Channel

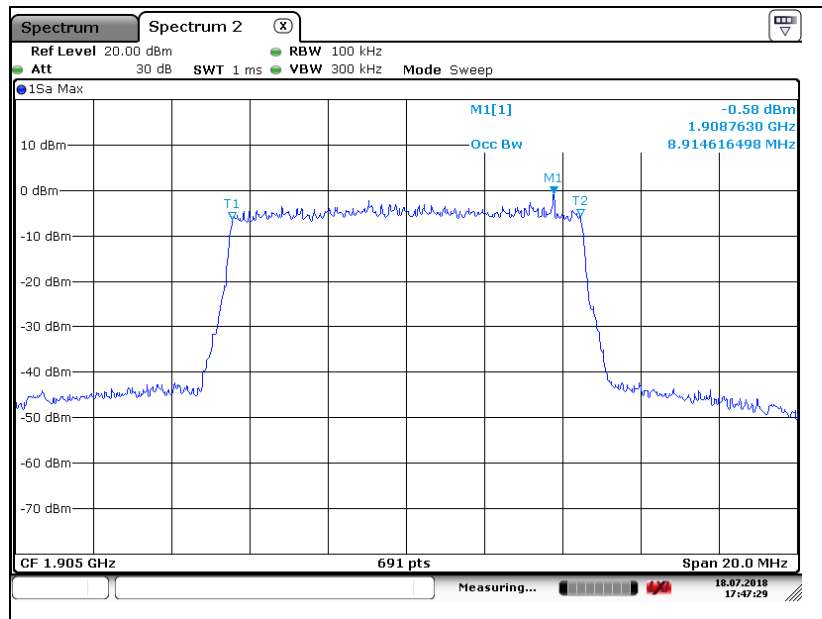


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Middle Channel



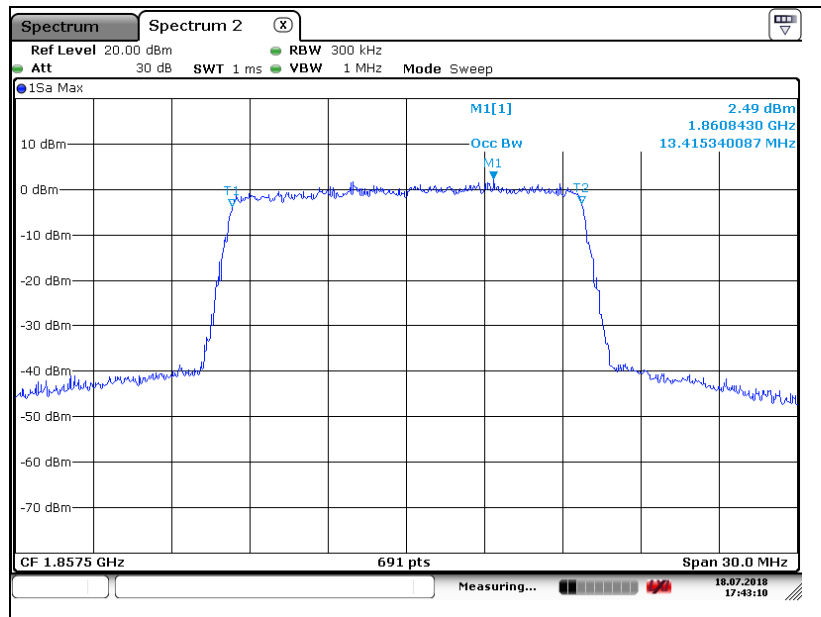
High Channel



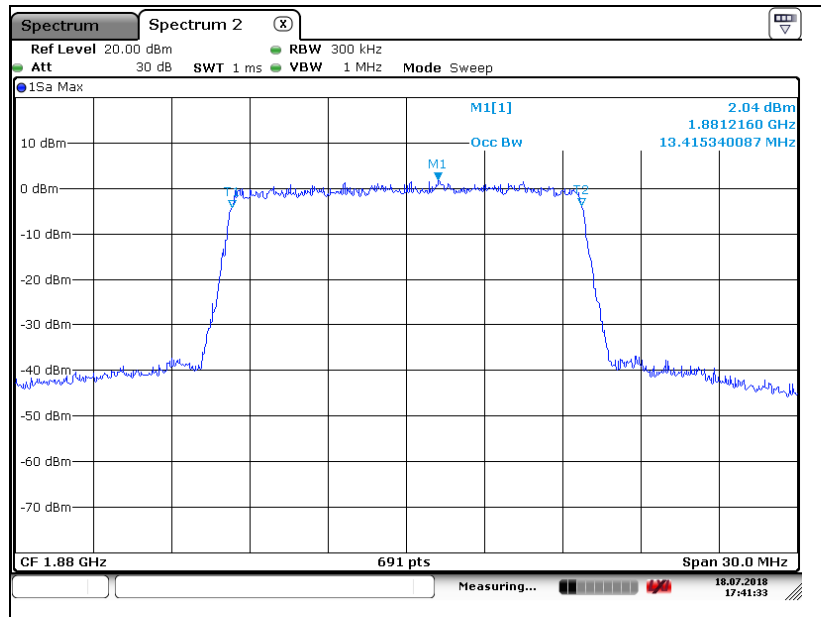
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LTE band 2 (15 MHz - QPSK)

Low Channel

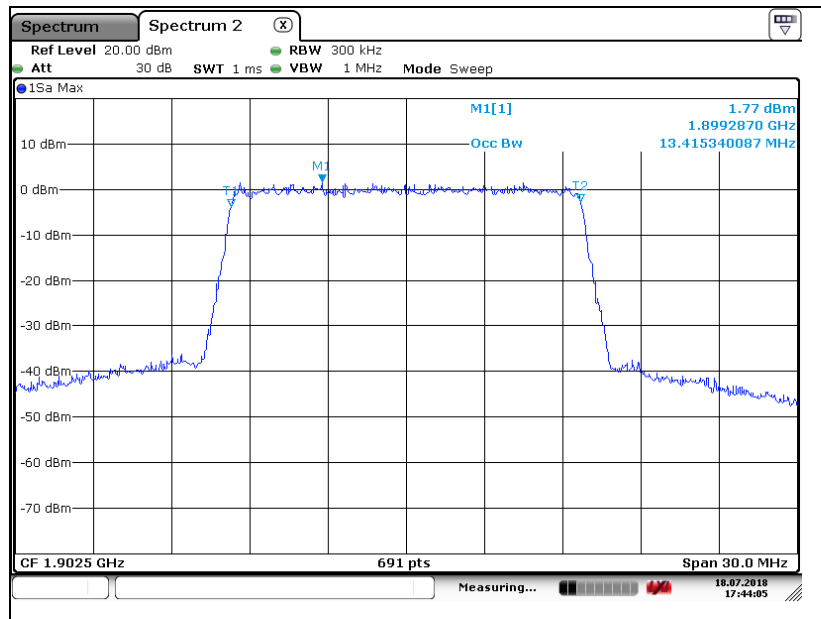


Middle Channel



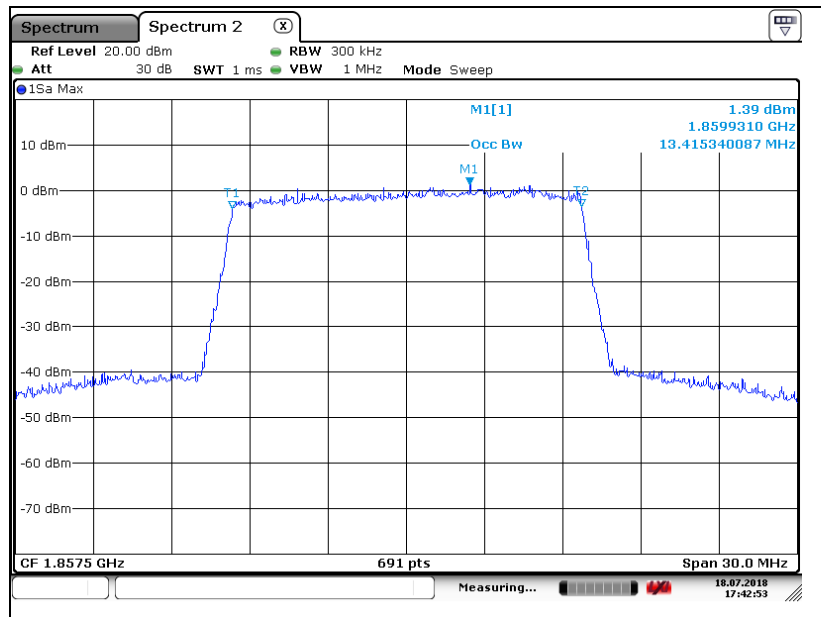
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High Channel



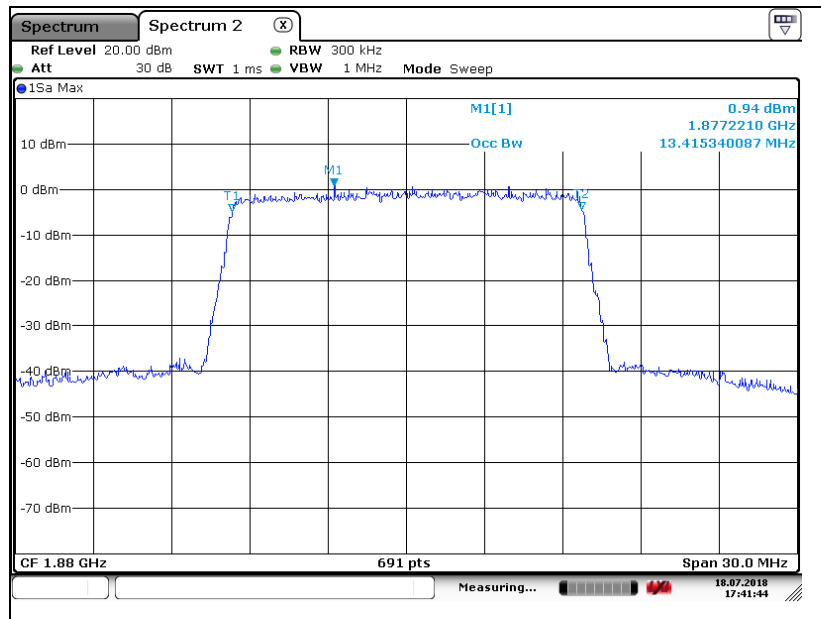
LTE band 2 (15 MHz - 16QAM)

Low Channel

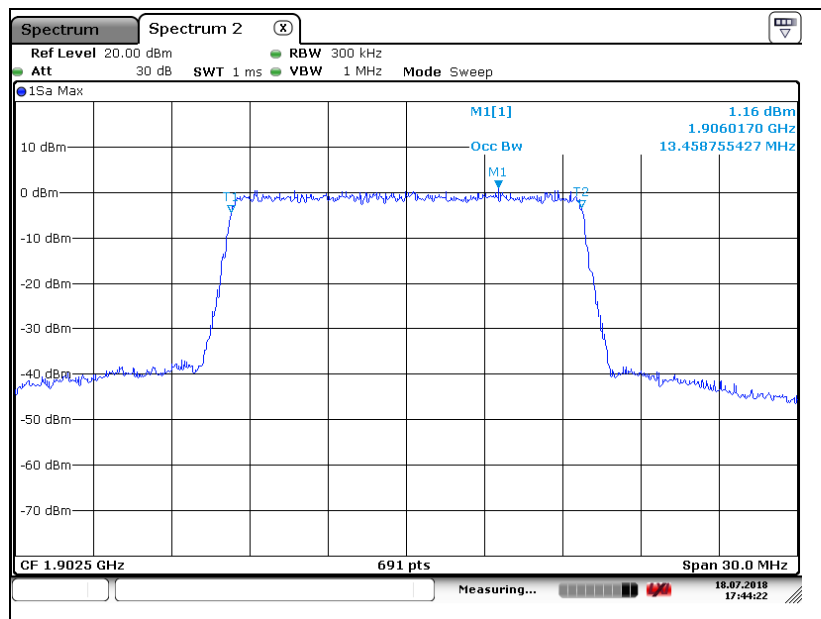


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Middle Channel



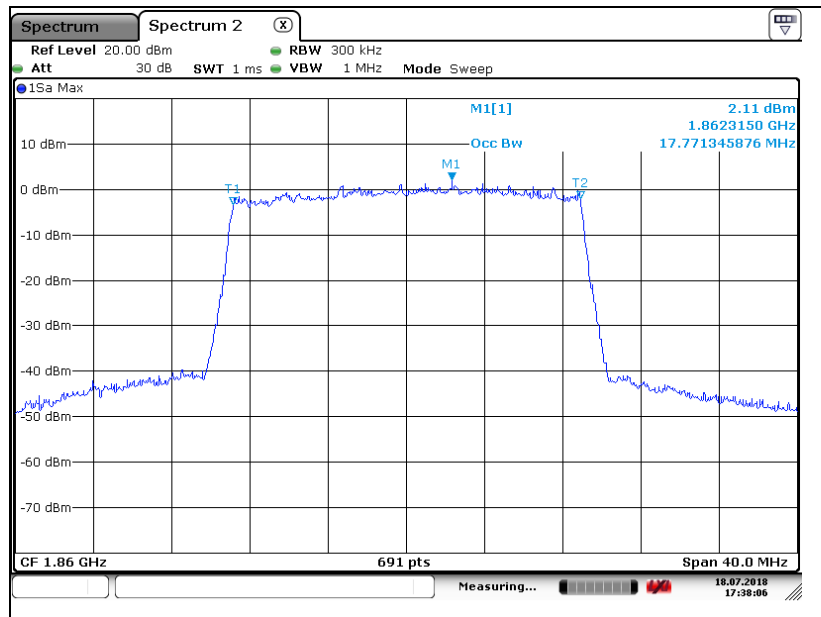
High Channel



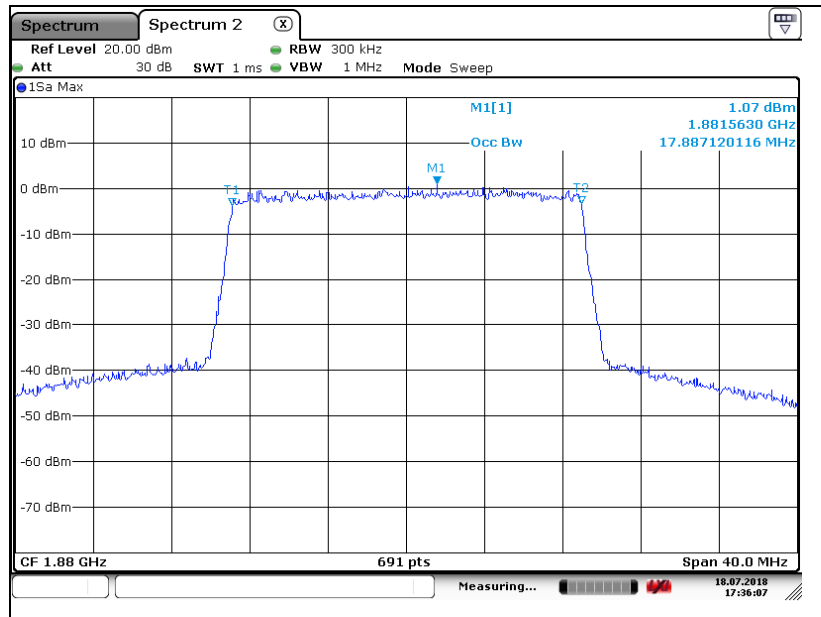
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LTE band 2 (20 MHz - QPSK)

Low Channel

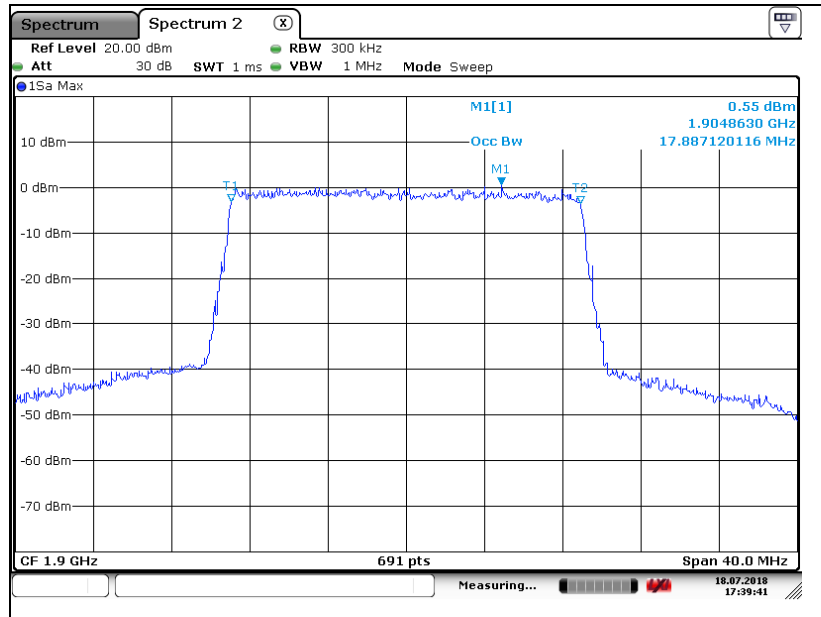


Middle Channel



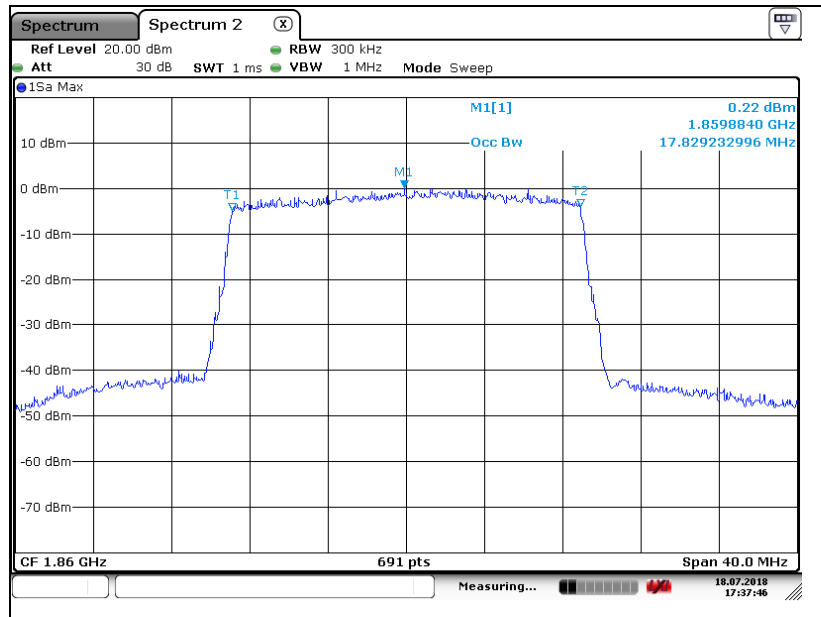
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High Channel



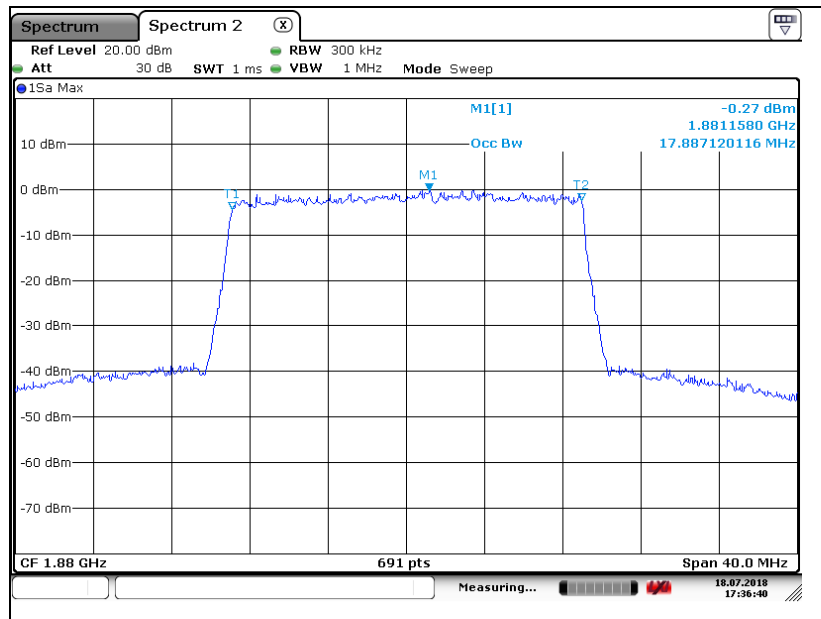
LTE band 2 (20 MHz - 16QAM)

Low Channel

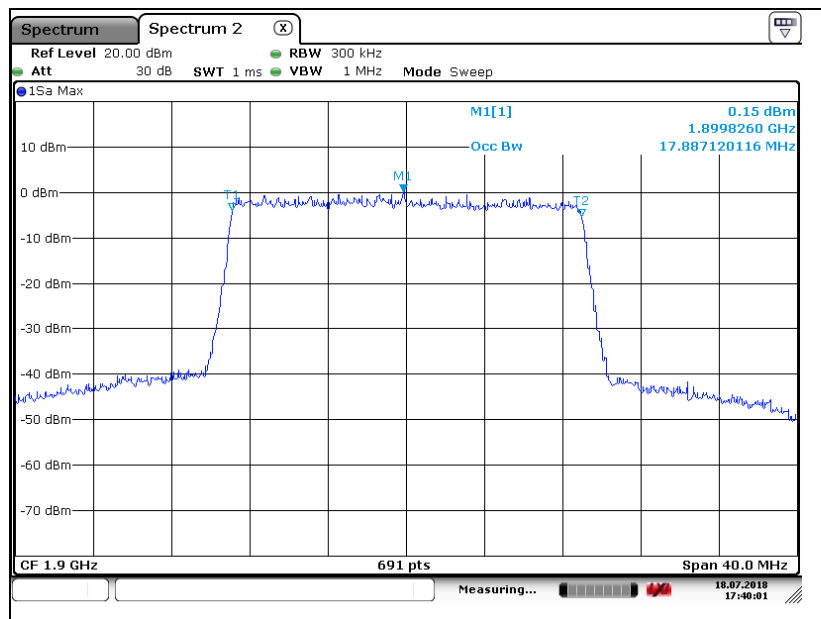


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Middle Channel



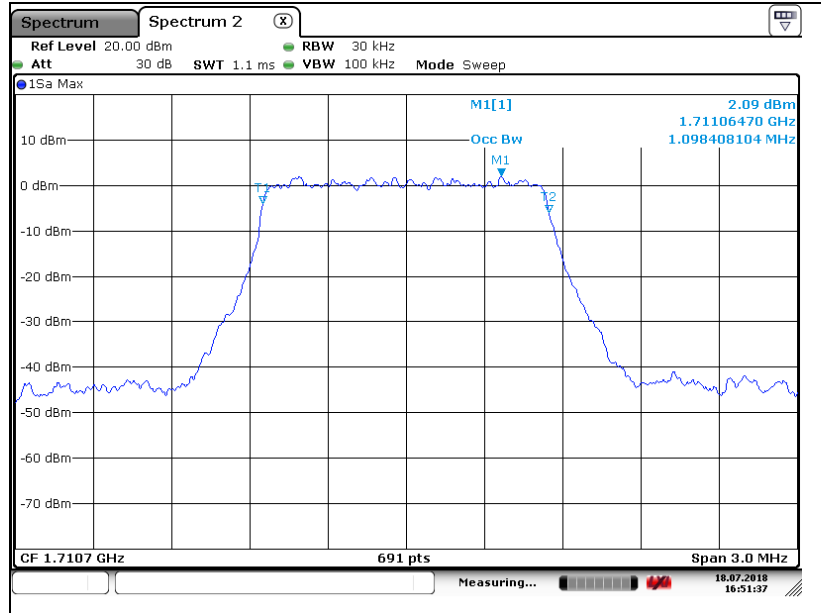
High Channel



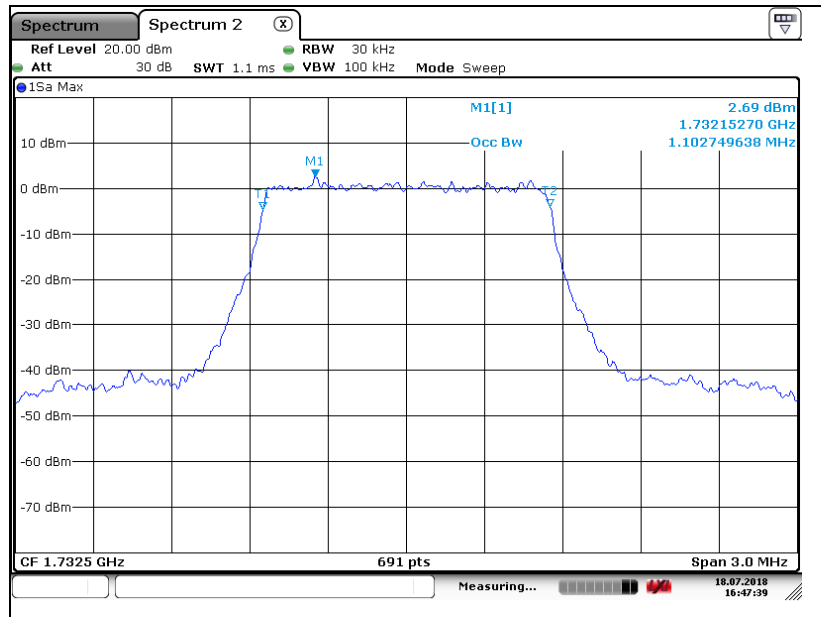
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LTE band 4 (1.4 MHz - QPSK)

Low Channel

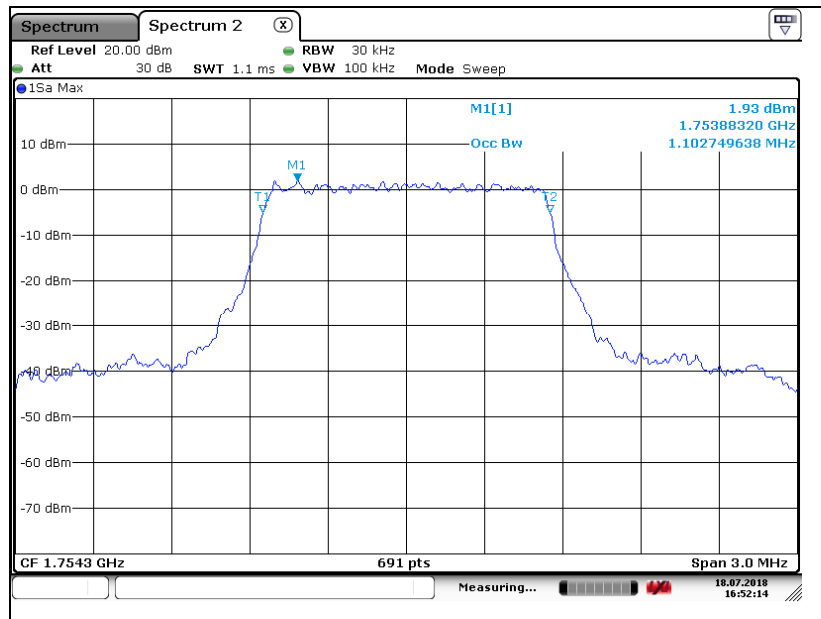


Middle Channel



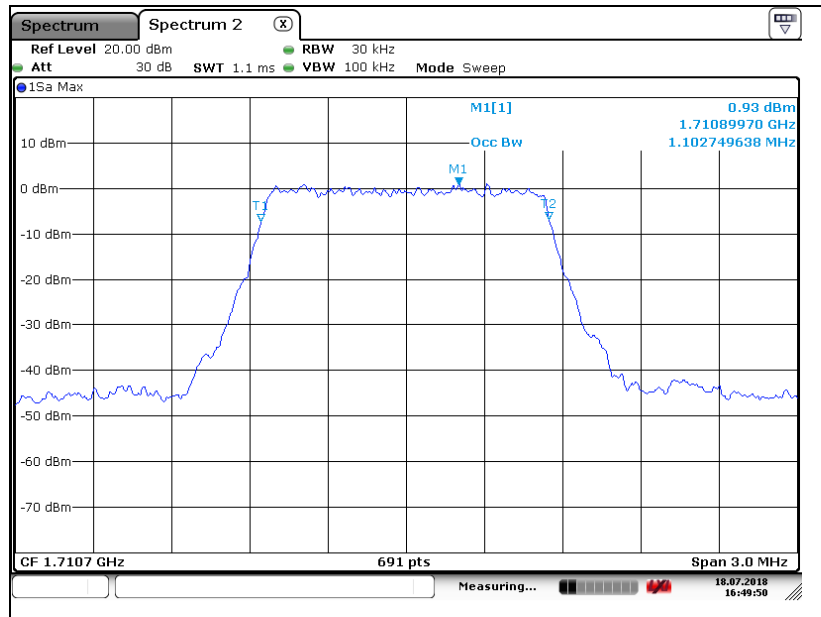
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High Channel



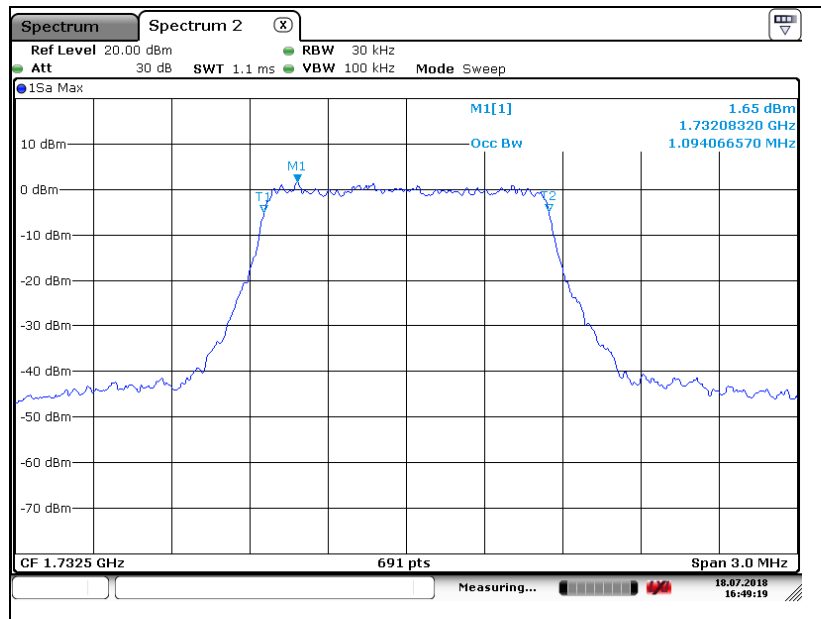
LTE band 4 (1.4 MHz - 16QAM)

Low Channel

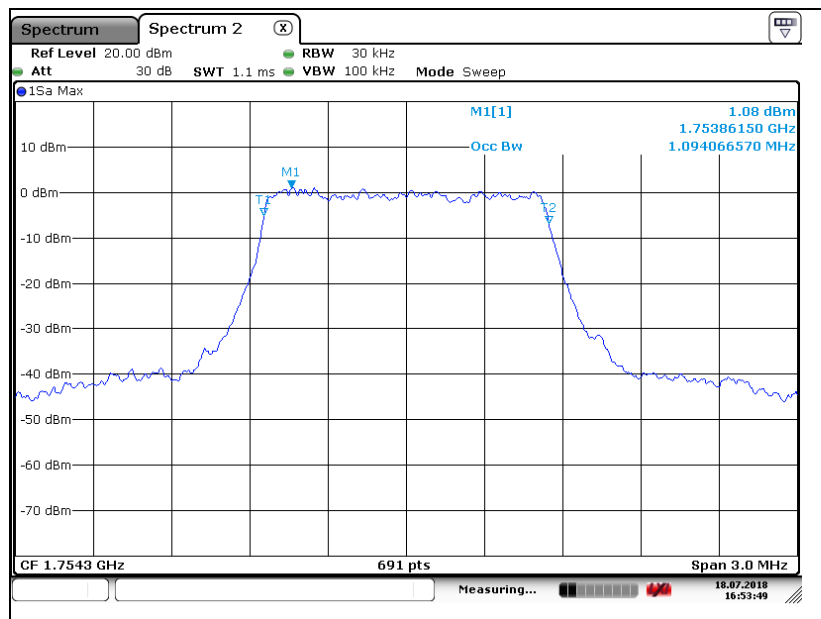


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Middle Channel



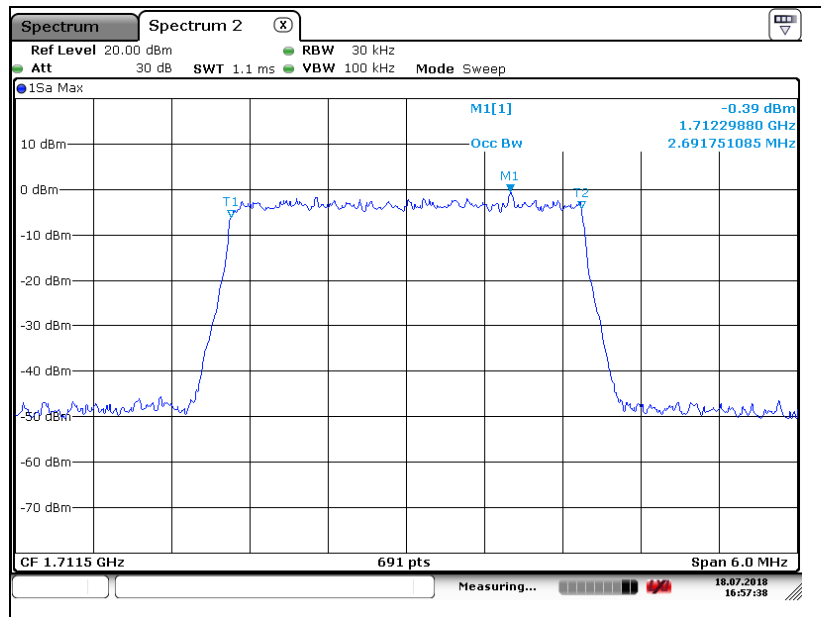
High Channel



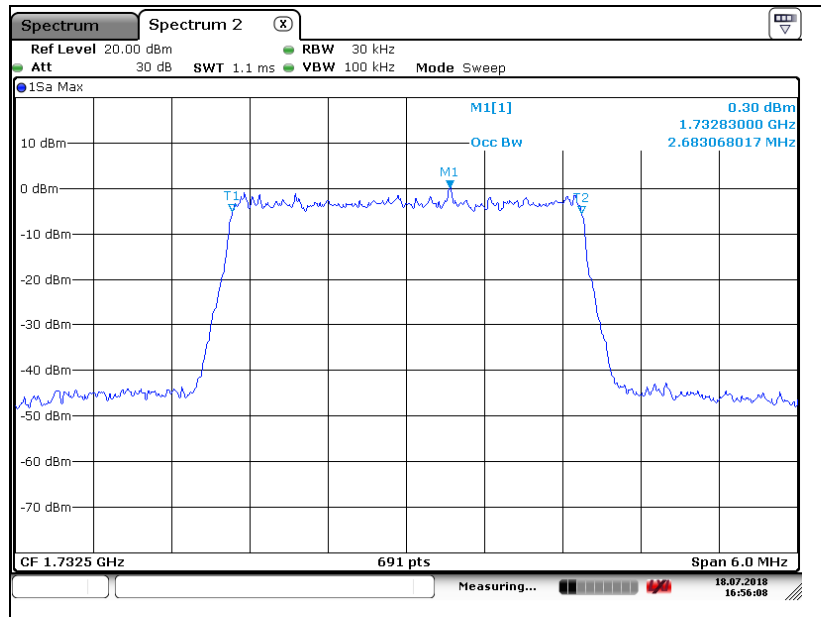
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LTE band 4 (3 MHz - QPSK)

Low Channel

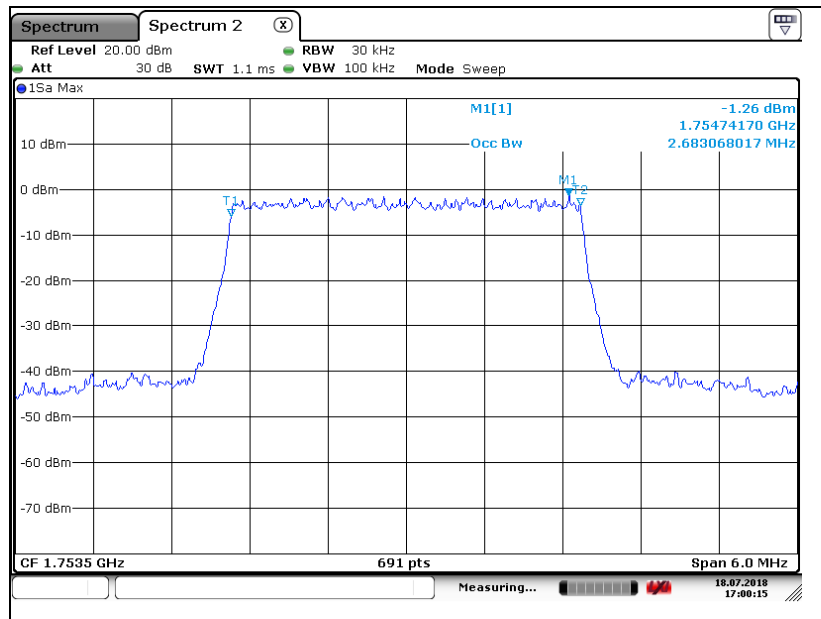


Middle Channel



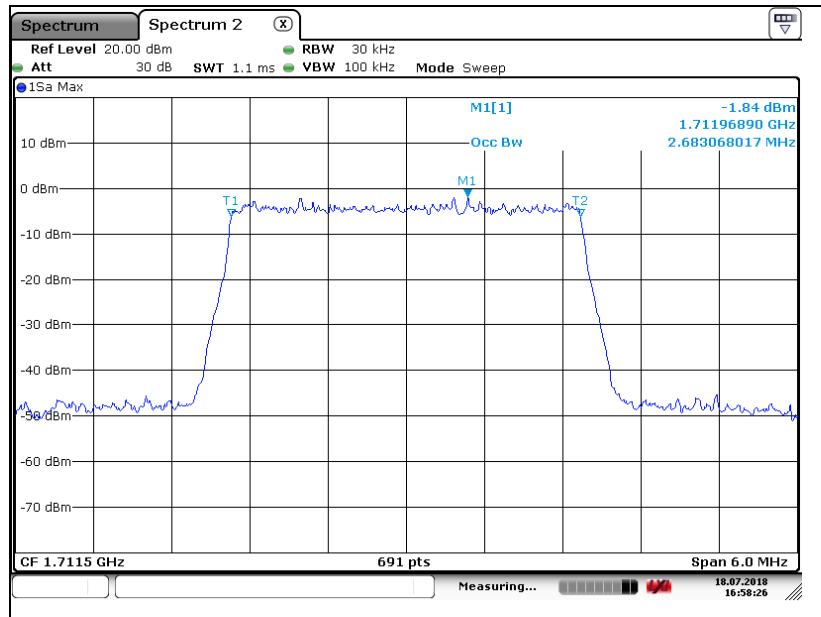
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High Channel



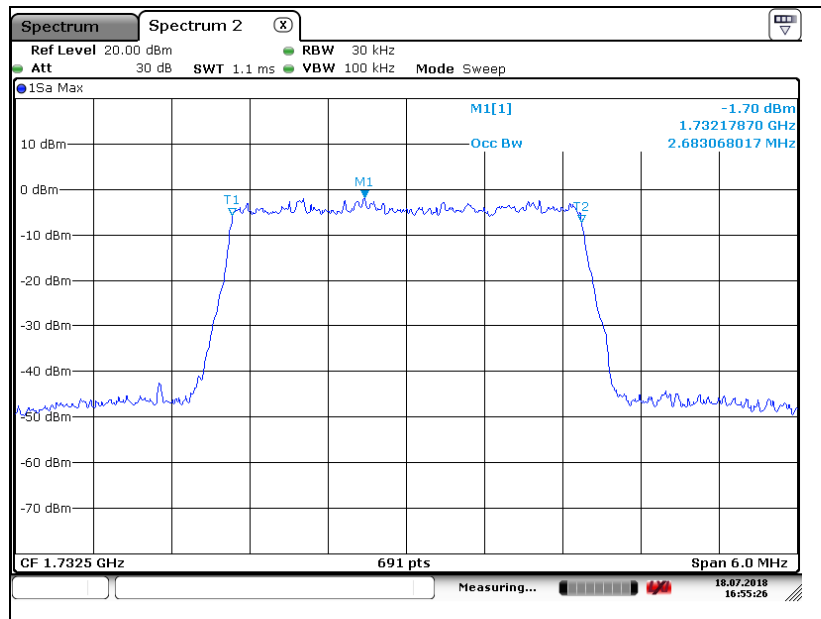
LTE band 4 (3 MHz - 16QAM)

Low Channel

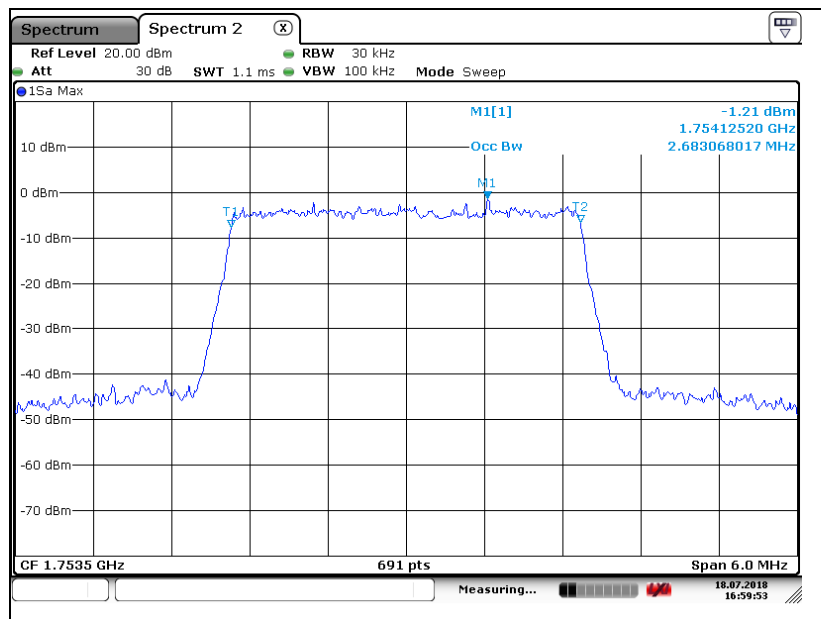


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Middle Channel



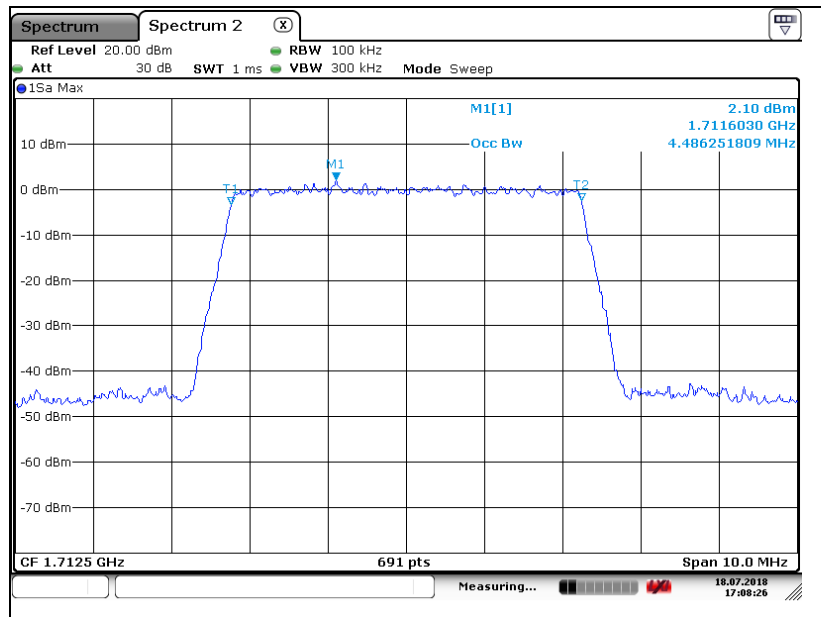
High Channel



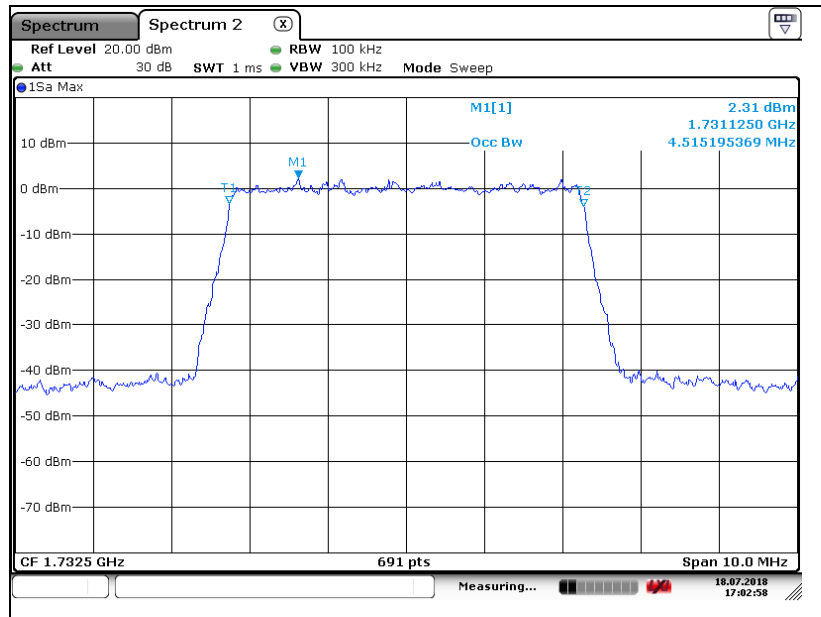
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LTE band 4 (5 MHz - QPSK)

Low Channel

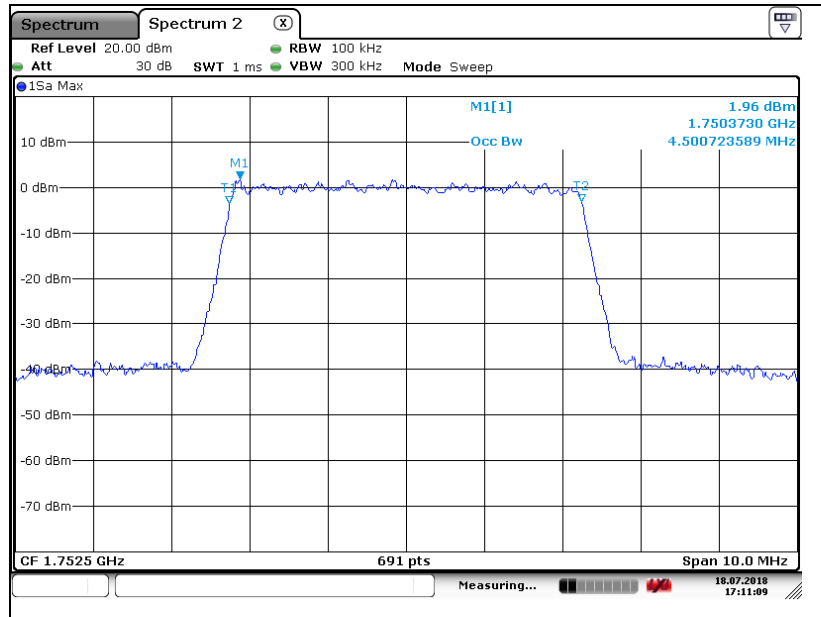


Middle Channel



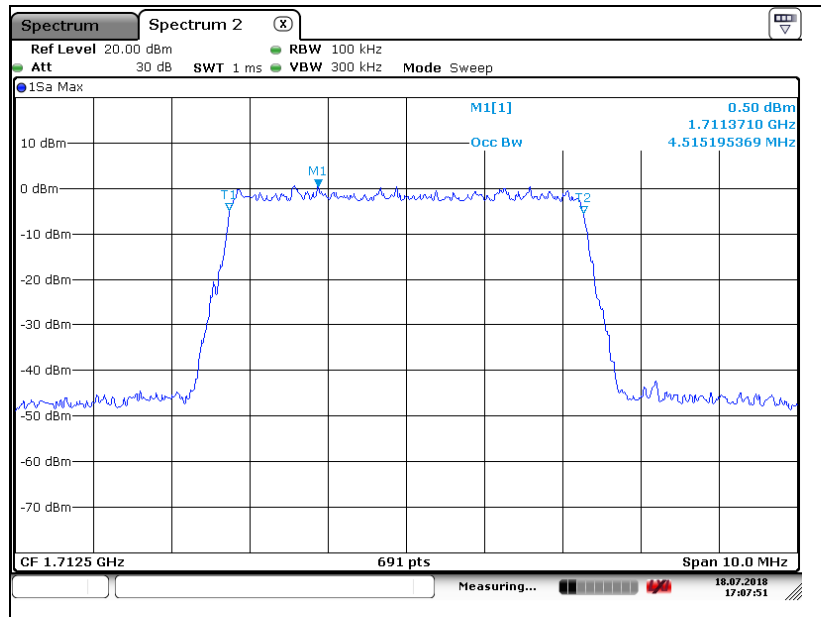
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High Channel



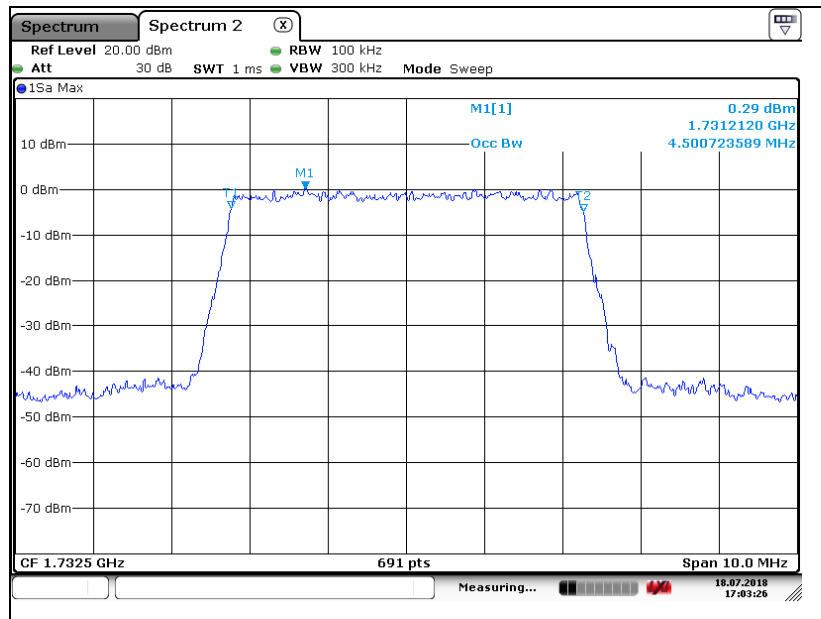
LTE band 4 (5 MHz - 16QAM)

Low Channel

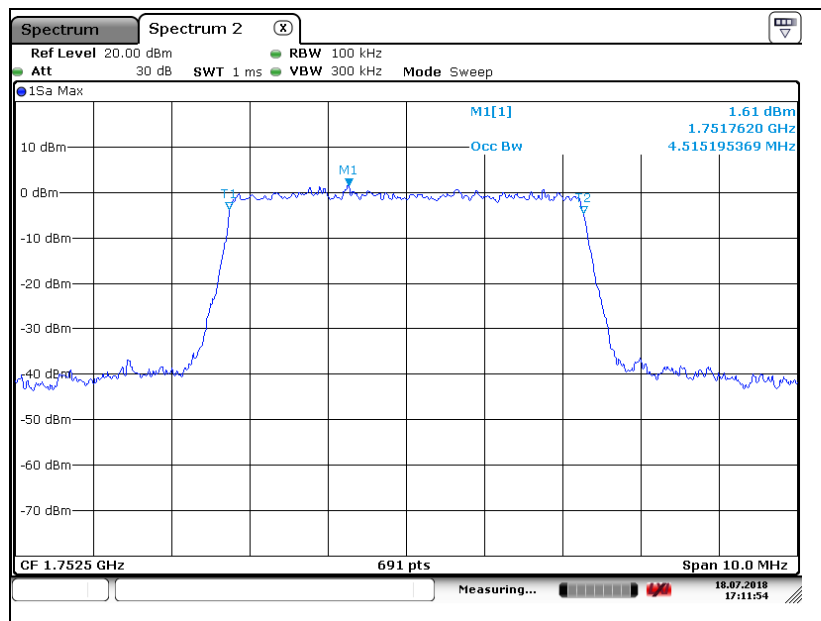


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Middle Channel



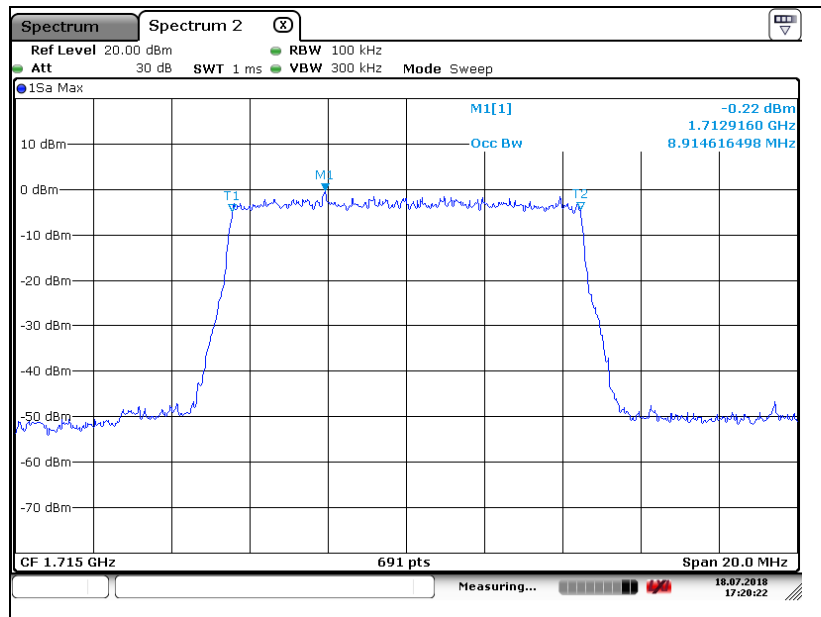
High Channel



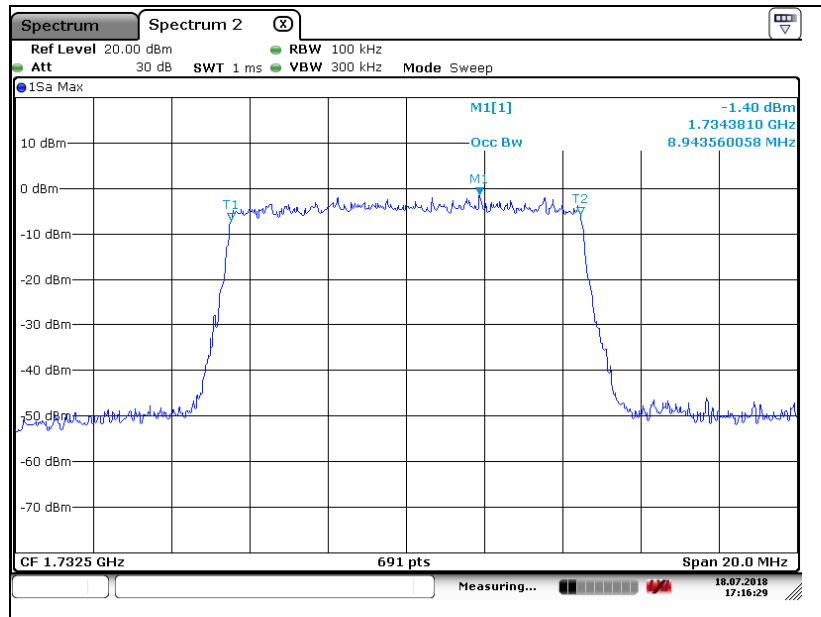
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LTE band 4 (10 MHz - QPSK)

Low Channel

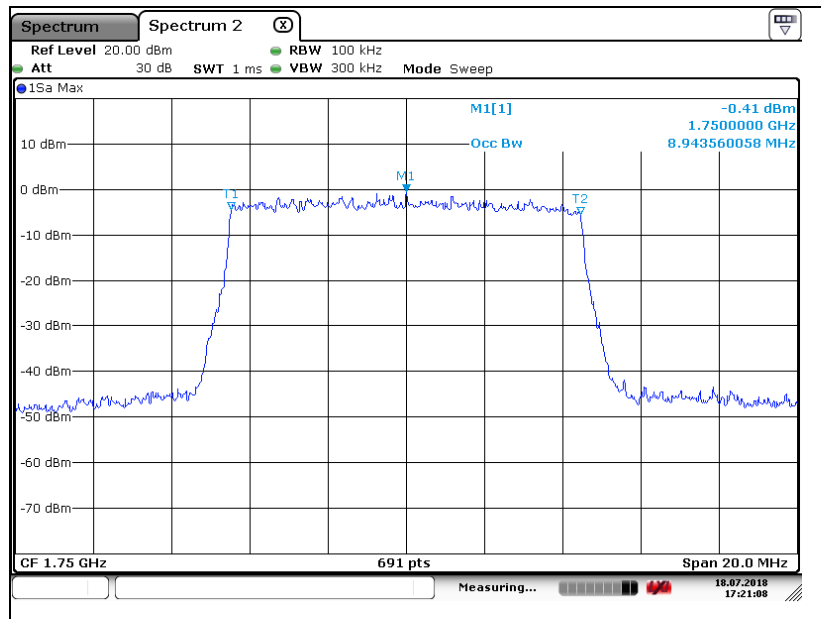


Middle Channel



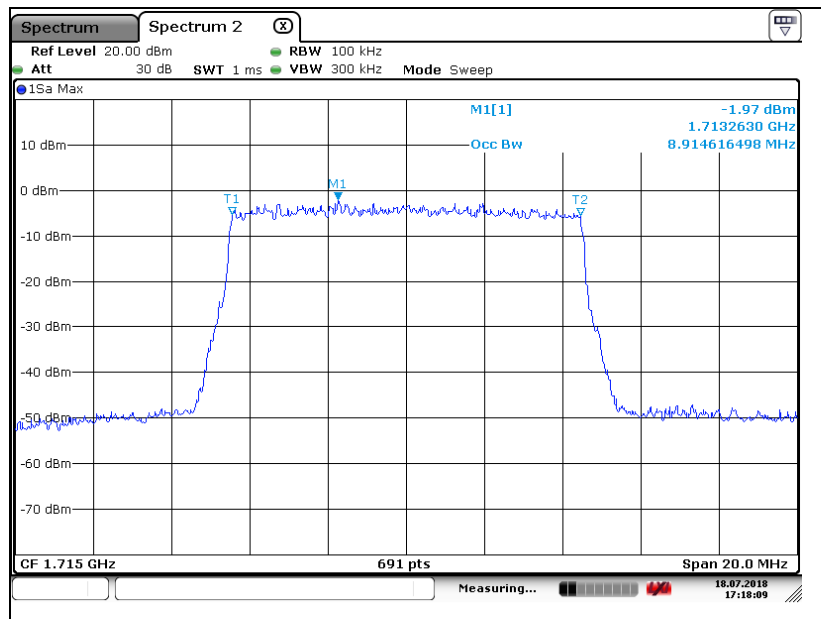
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High Channel



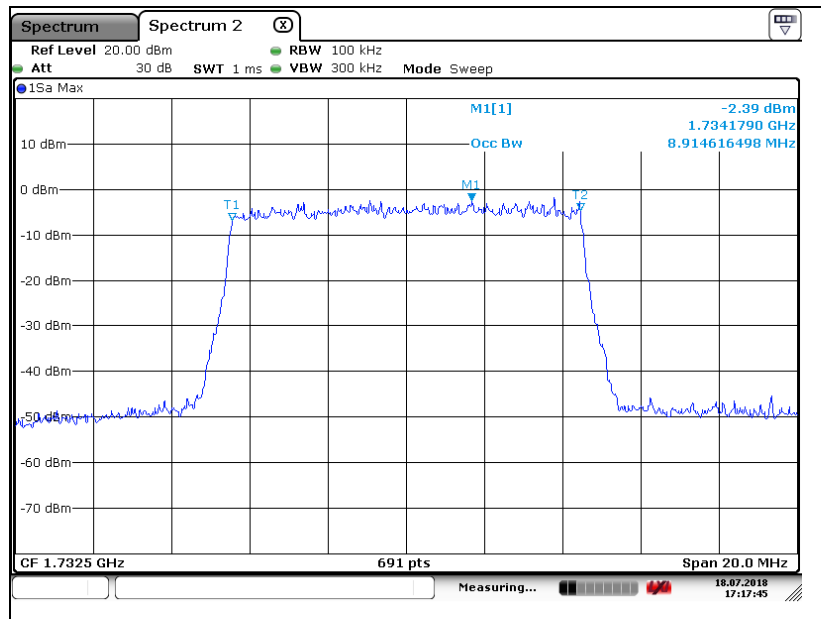
LTE band 4 (10 MHz - 16QAM)

Low Channel

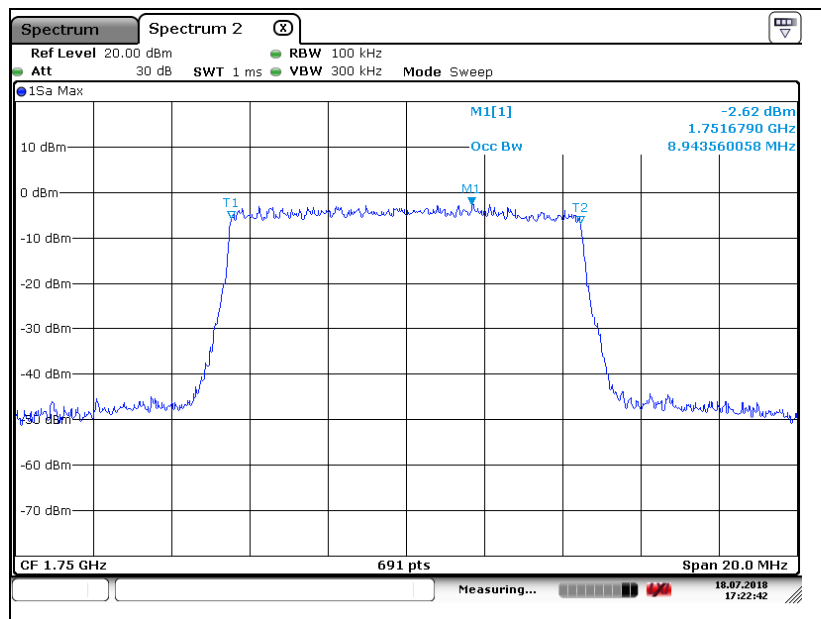


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Middle Channel



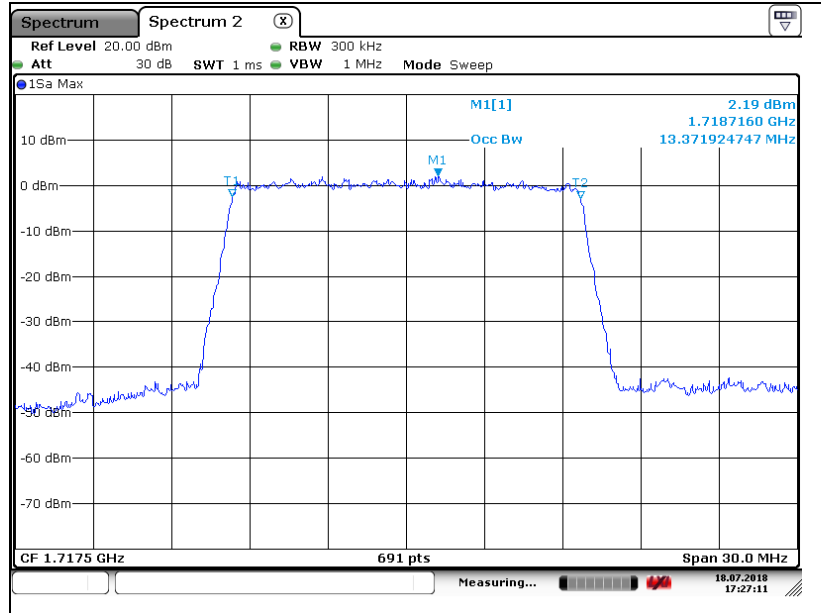
High Channel



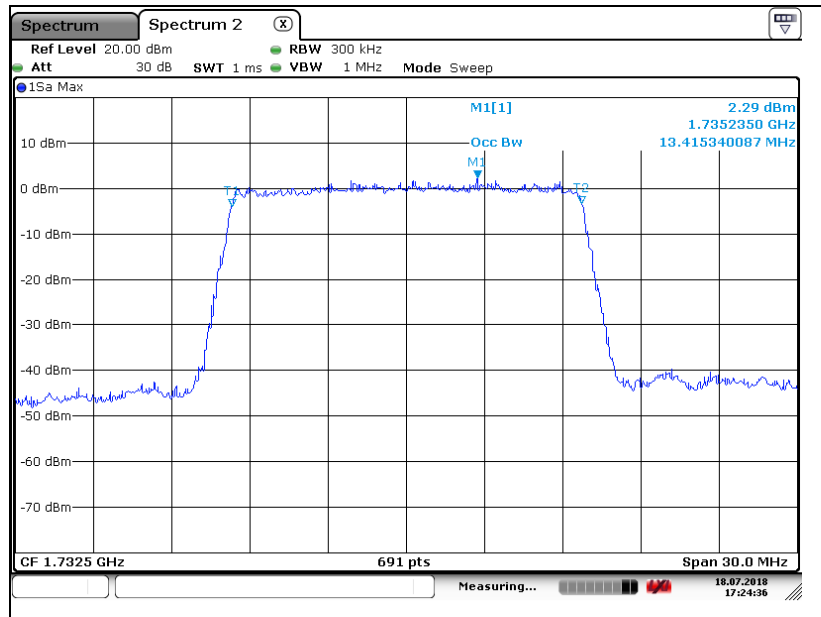
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LTE band 4 (15 MHz - QPSK)

Low Channel

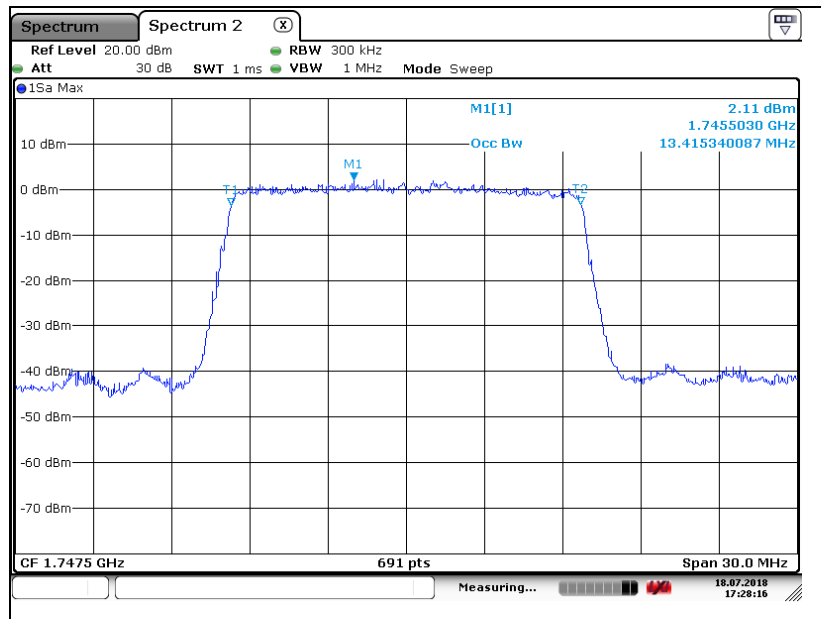


Middle Channel



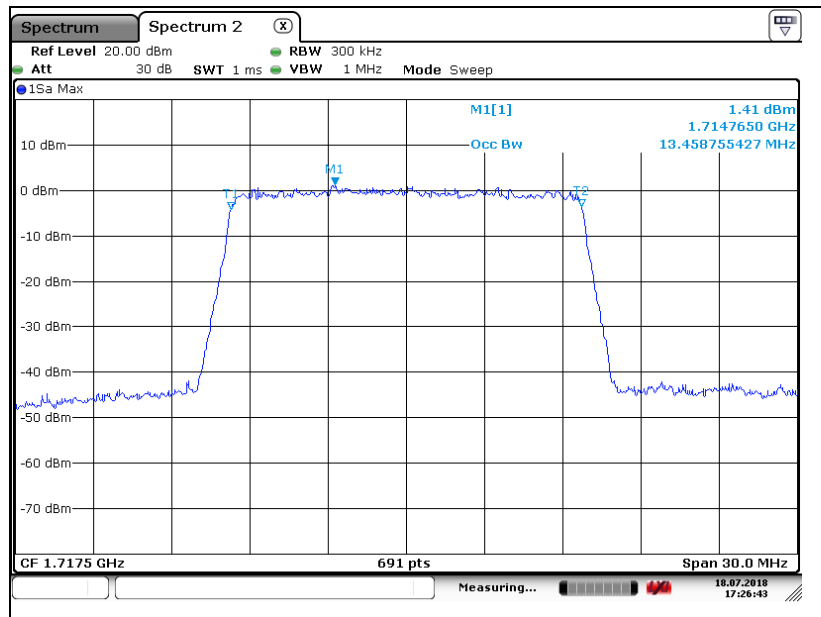
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High Channel



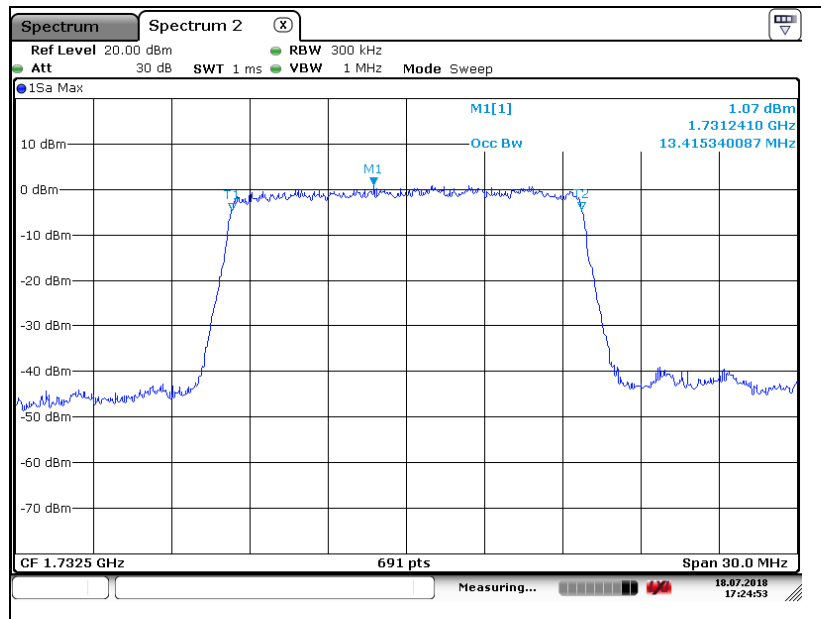
LTE band 4 (15 MHz - 16QAM)

Low Channel

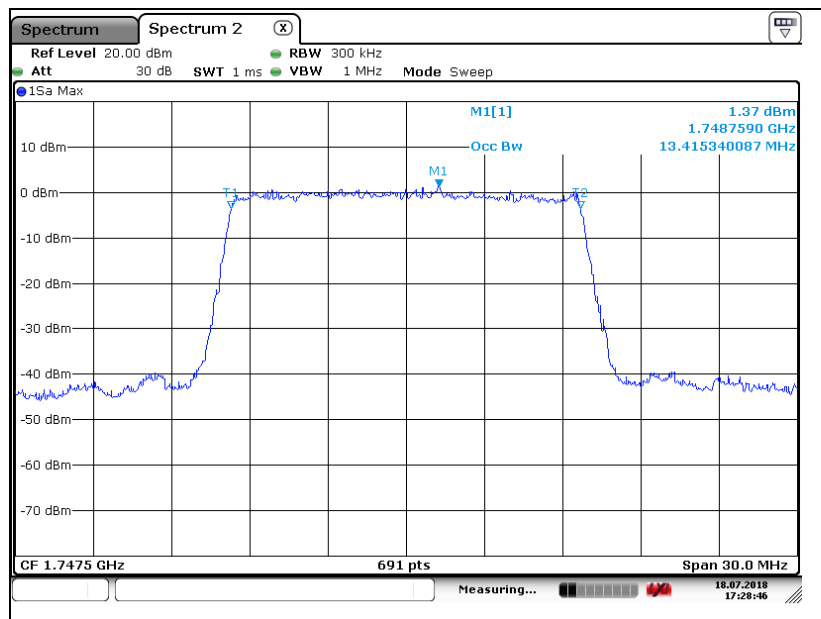


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Middle Channel



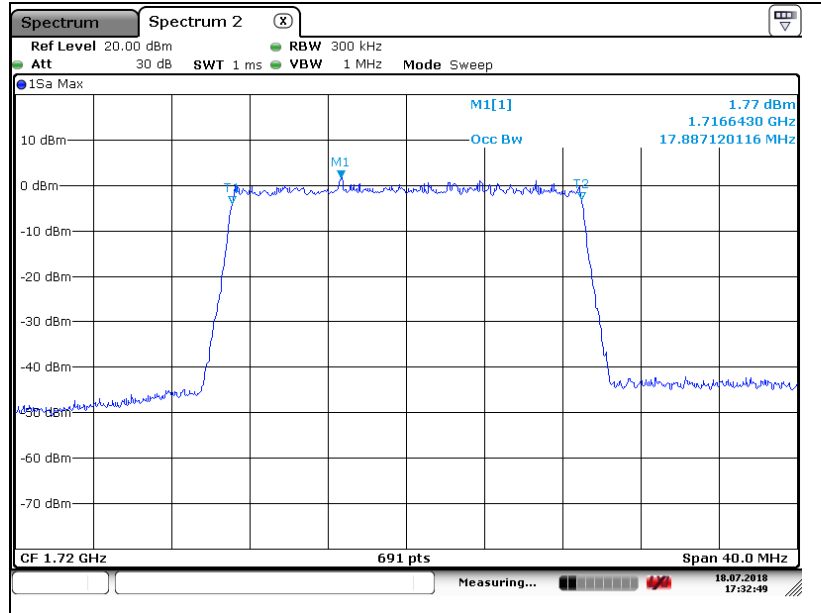
High Channel



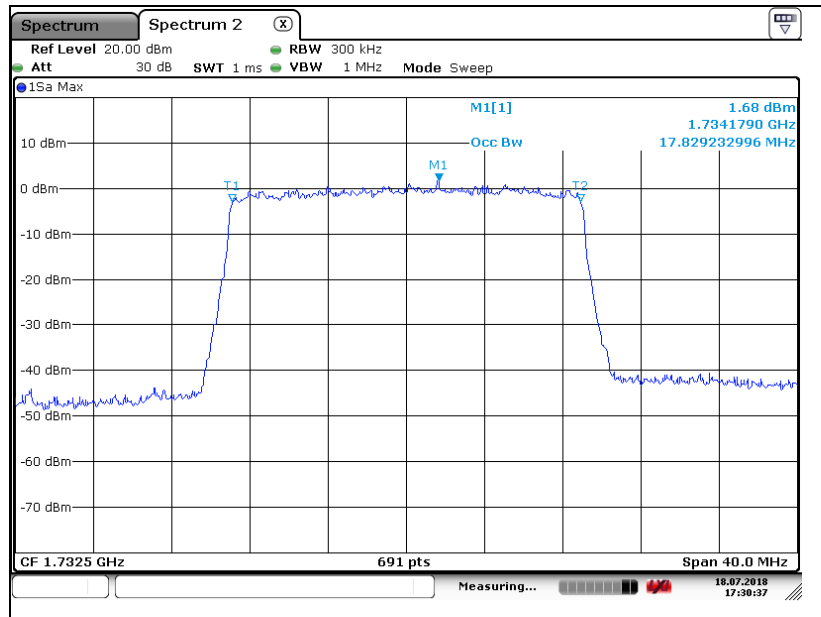
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LTE band 4 (20 MHz - QPSK)

Low Channel

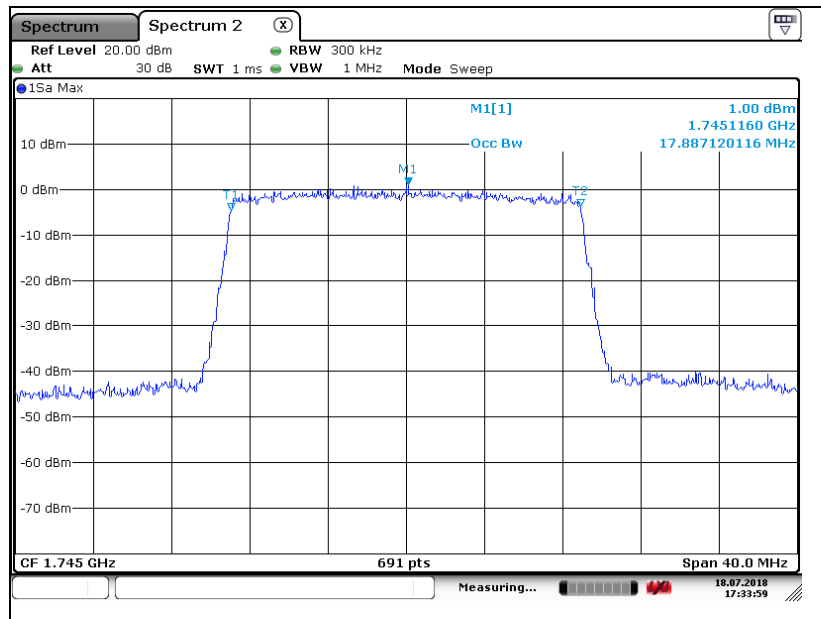


Middle Channel



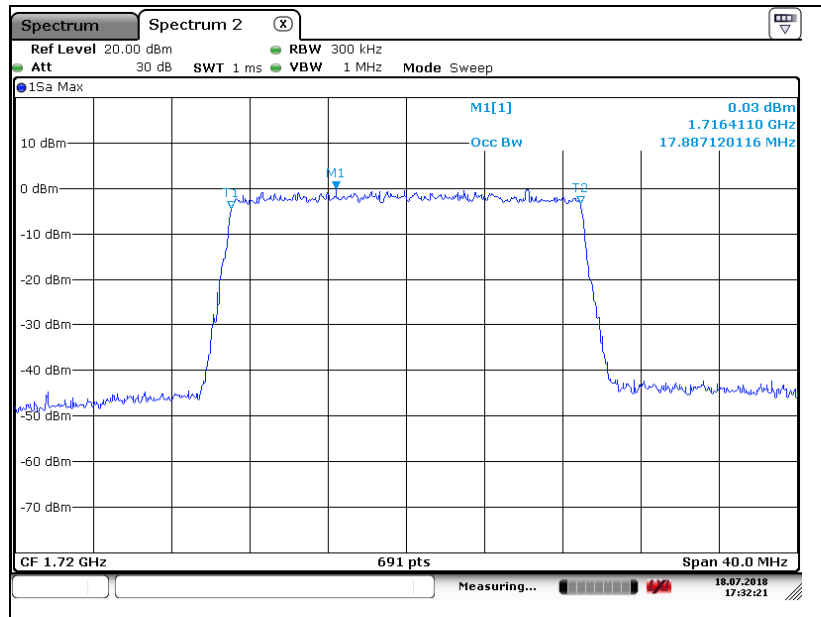
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High Channel



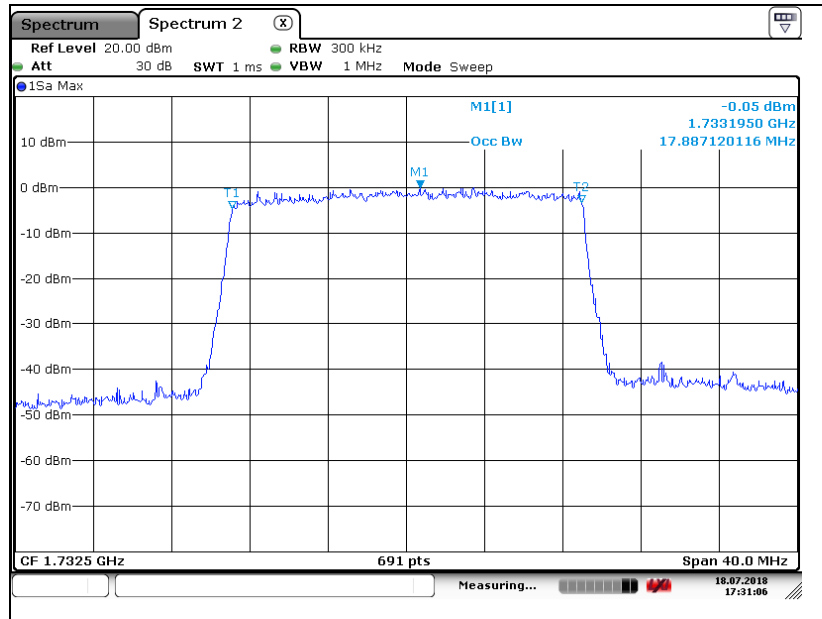
LTE band 4 (20 MHz - 16QAM)

Low Channel

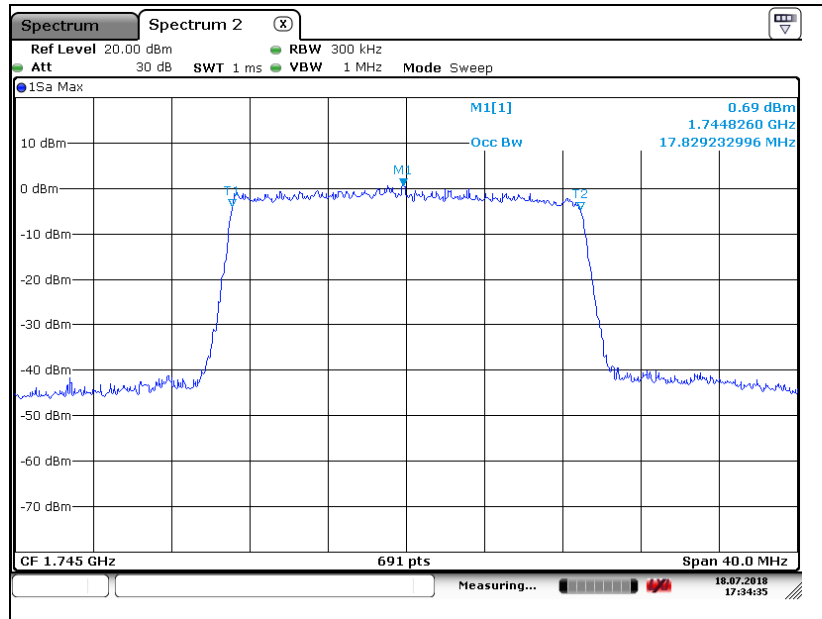


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Middle Channel



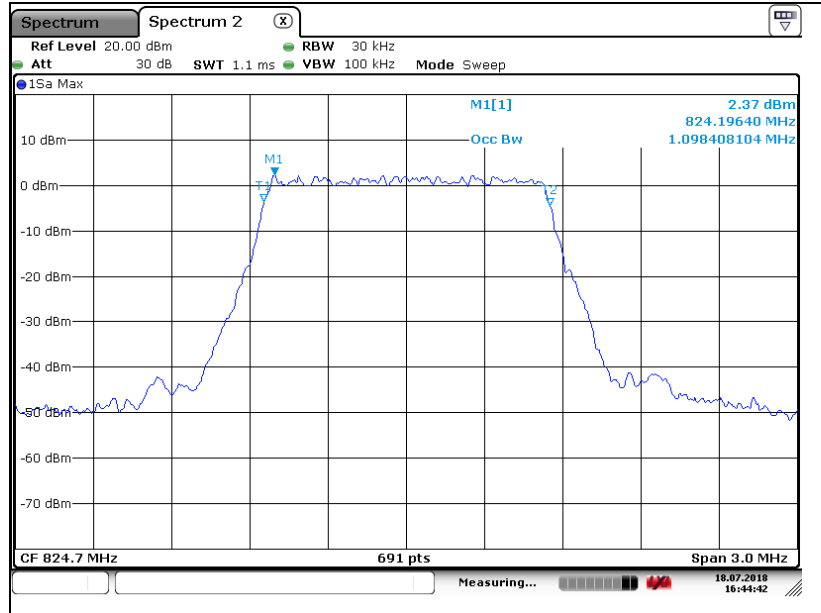
High Channel



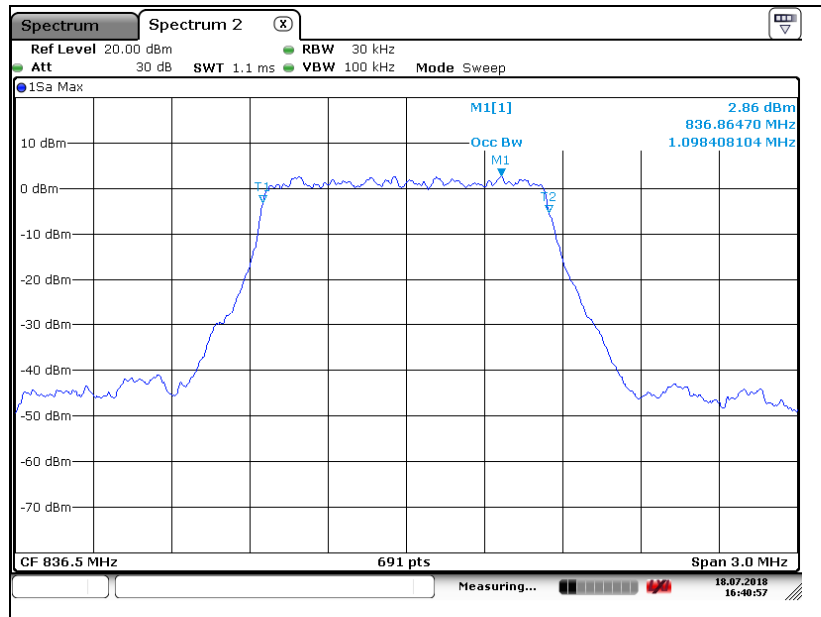
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LTE band 5 (1.4 MHz - QPSK)

Low Channel

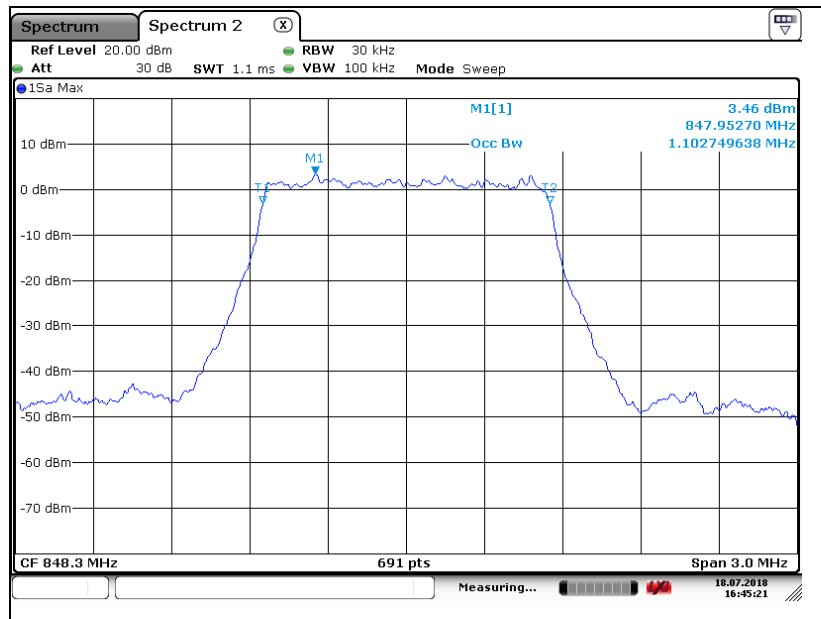


Middle Channel



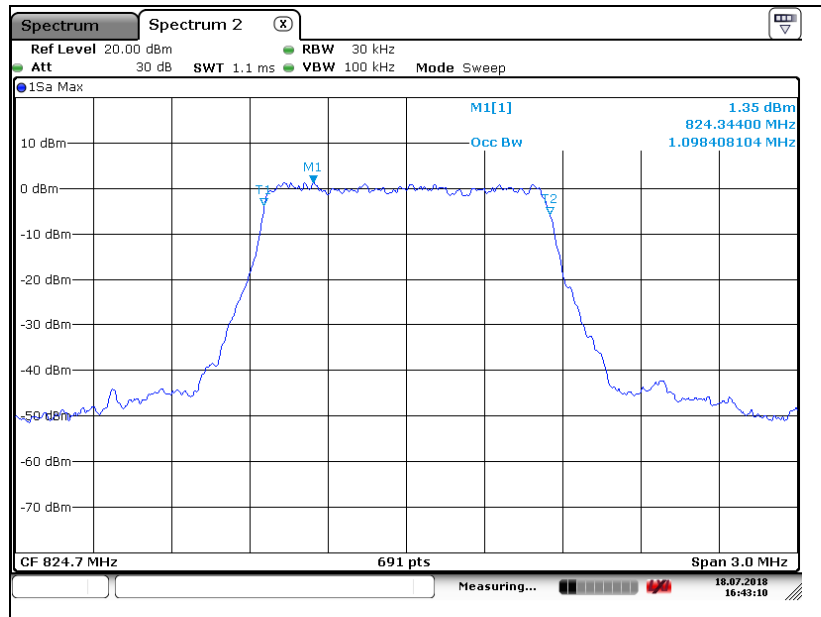
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High Channel



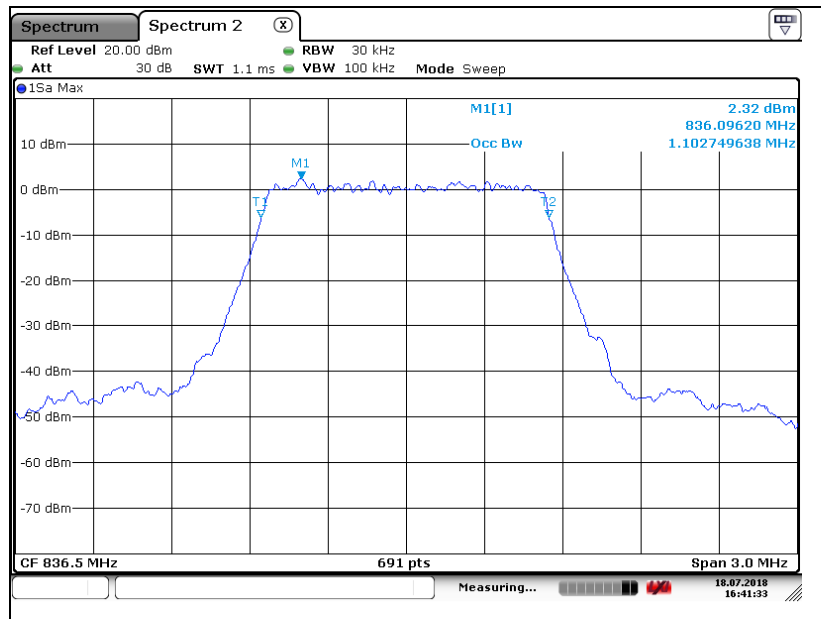
LTE band 5 (1.4 MHz - 16QAM)

Low Channel

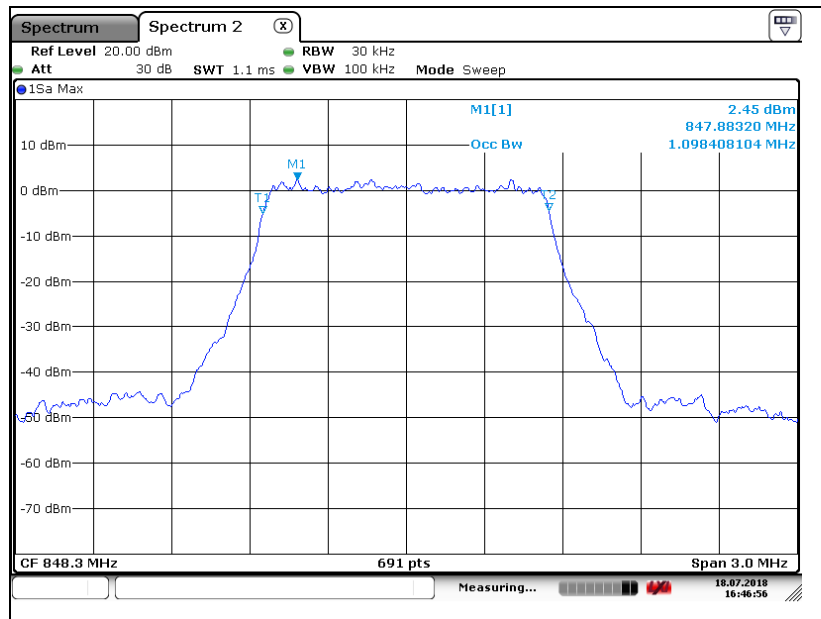


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Middle Channel



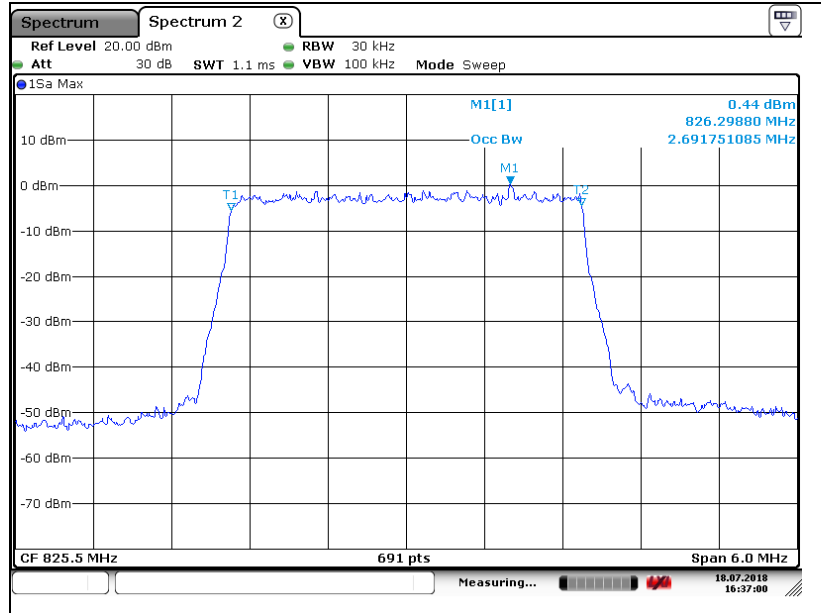
High Channel



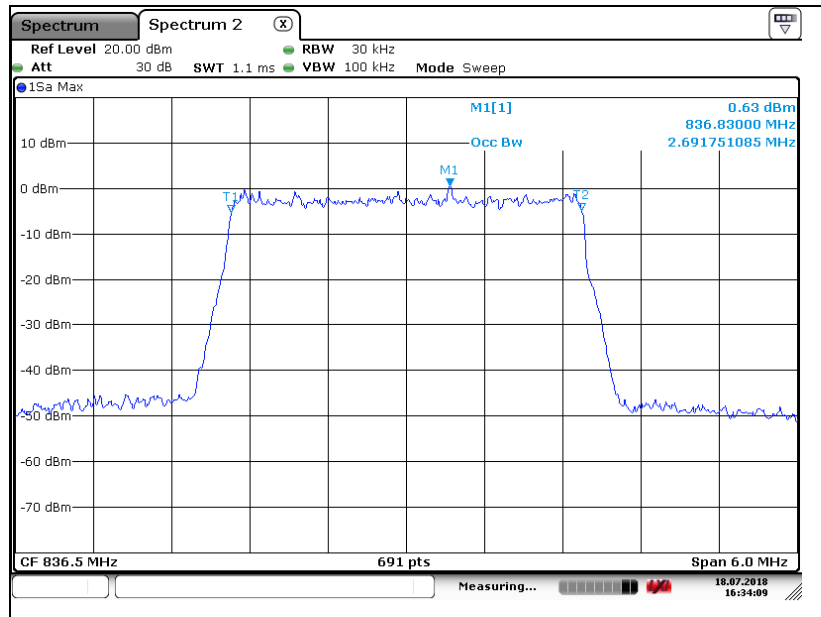
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LTE band 5 (3 MHz - QPSK)

Low Channel

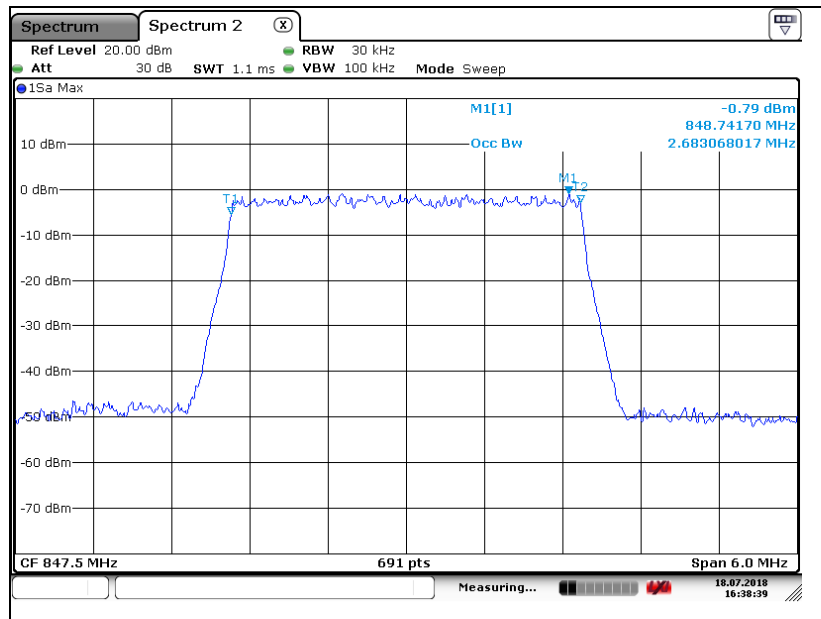


Middle Channel



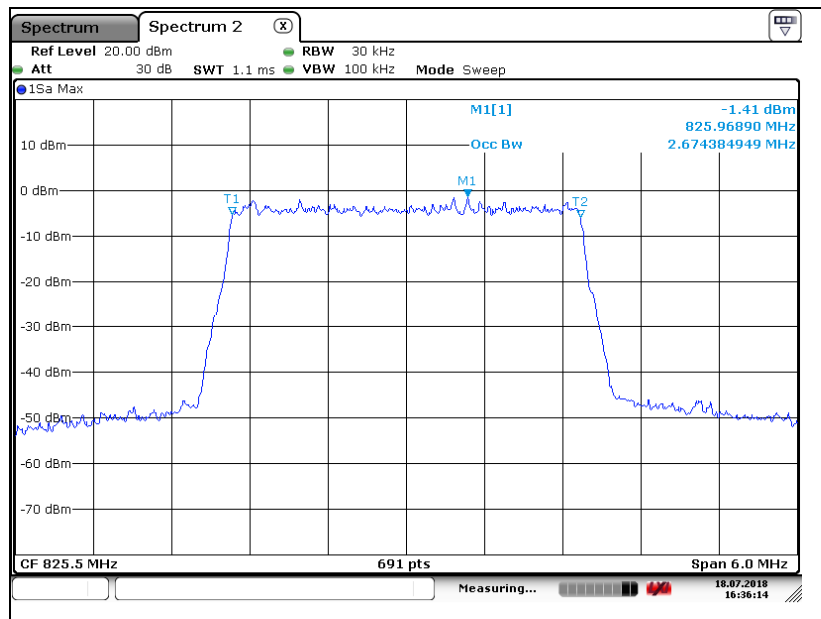
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High Channel



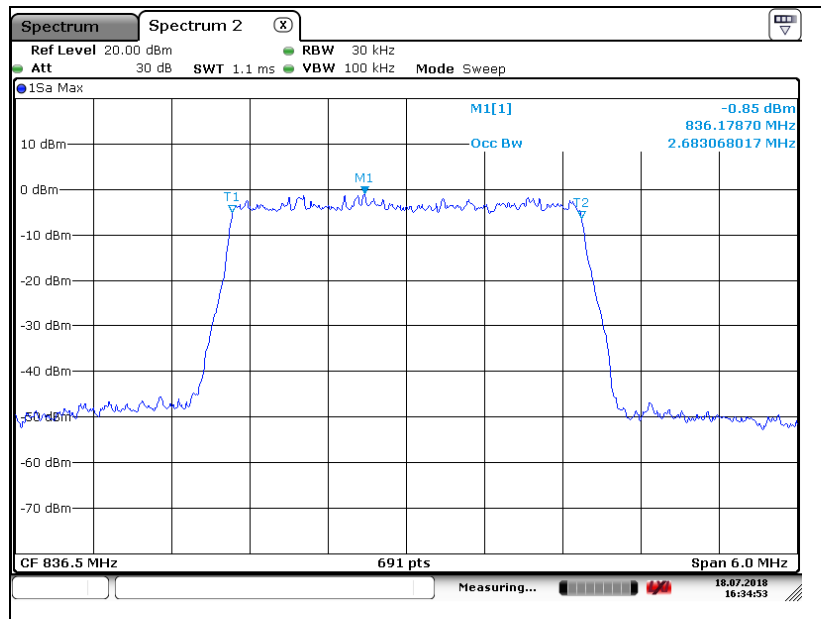
LTE band 5 (3 MHz - 16QAM)

Low Channel

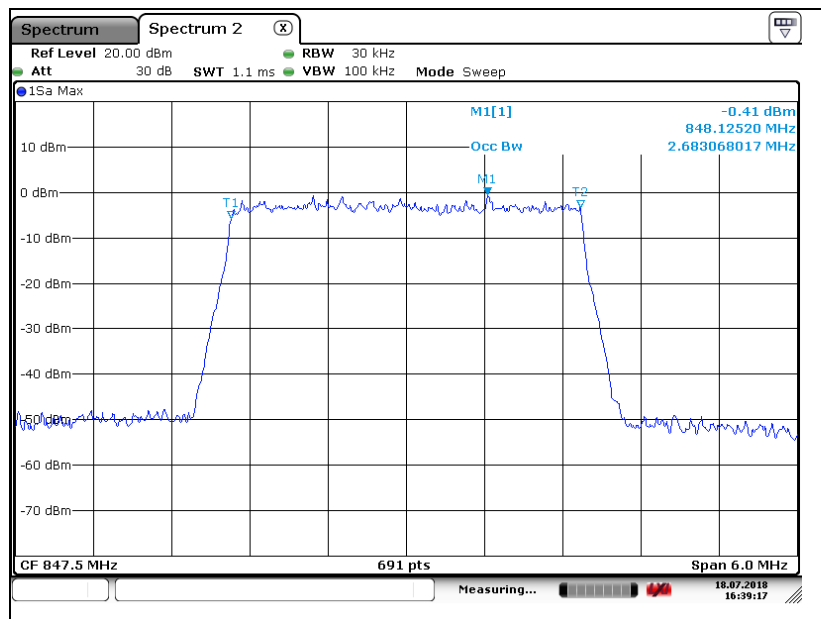


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Middle Channel



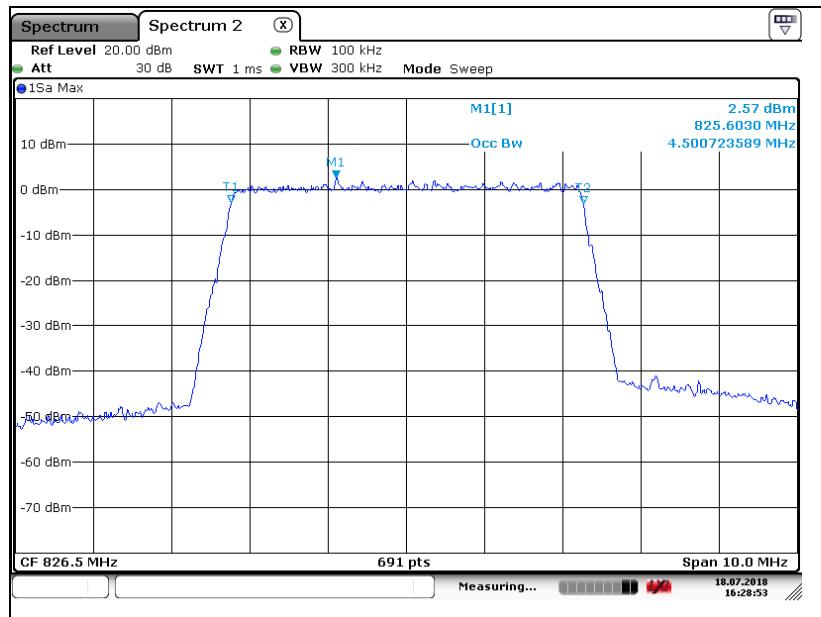
High Channel



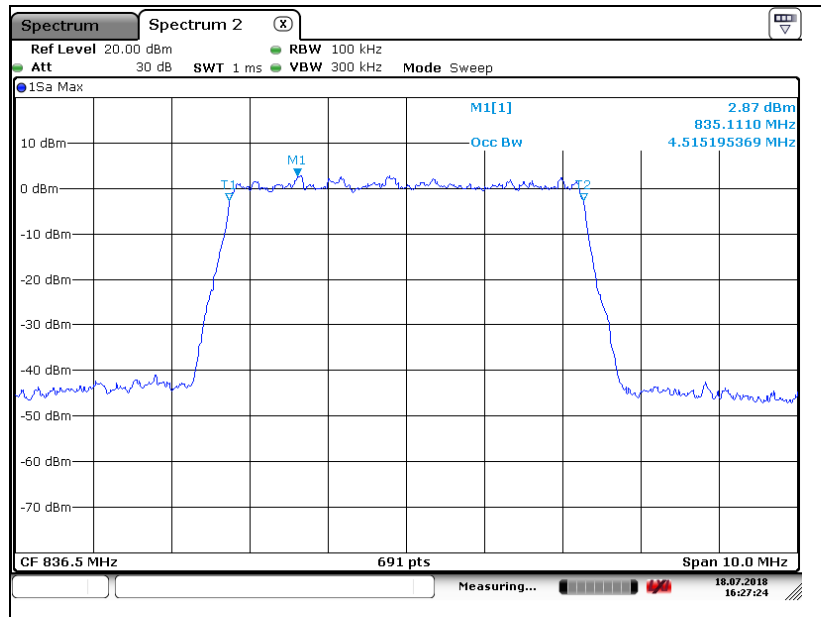
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LTE band 5 (5 MHz - QPSK)

Low Channel

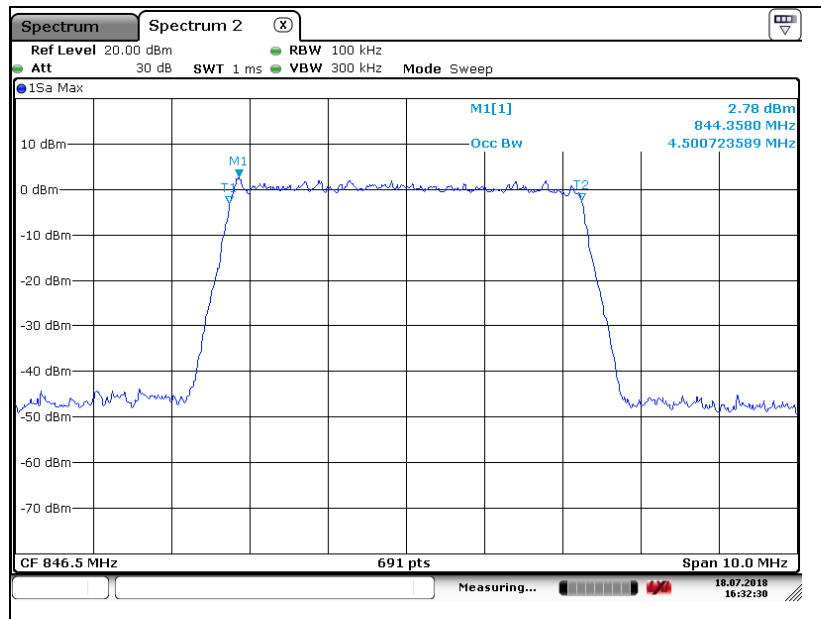


Middle Channel



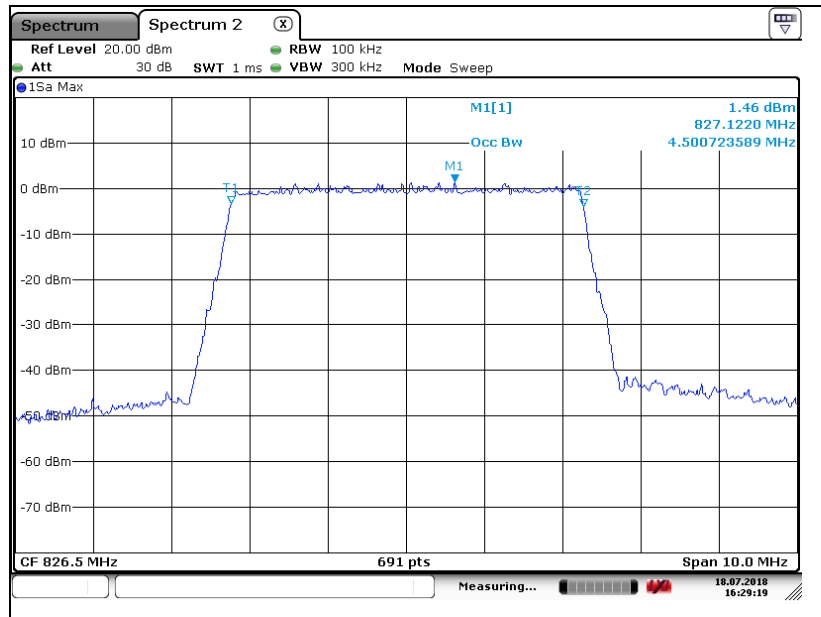
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High Channel



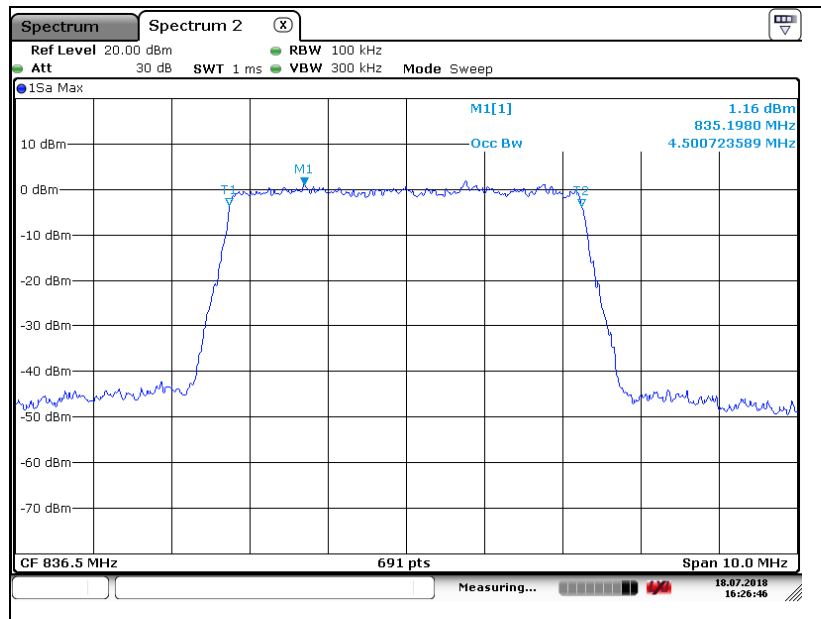
LTE band 5 (5 MHz - 16QAM)

Low Channel

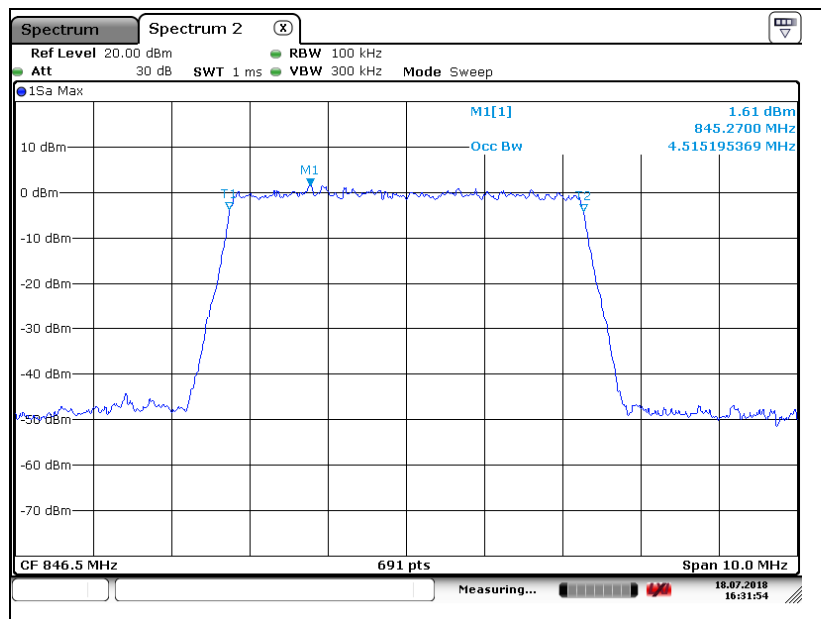


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Middle Channel



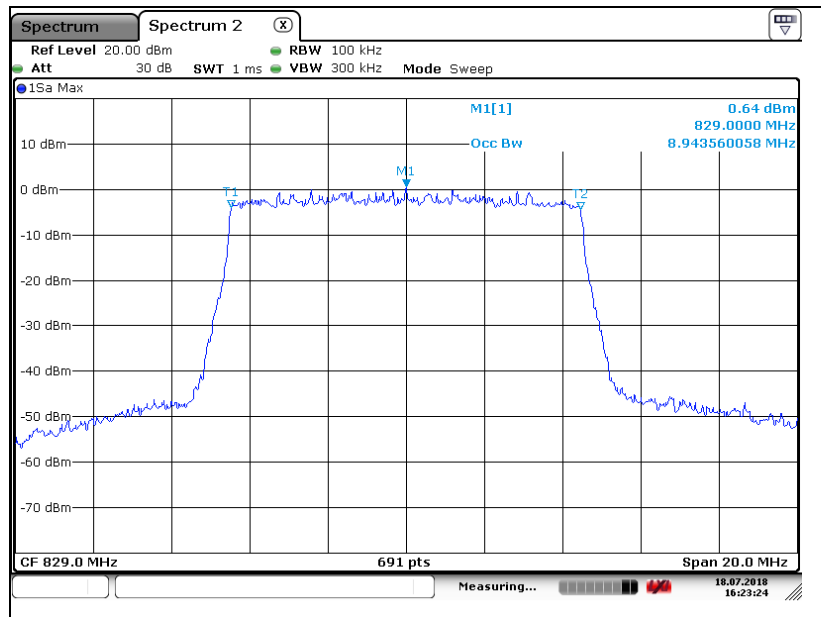
High Channel



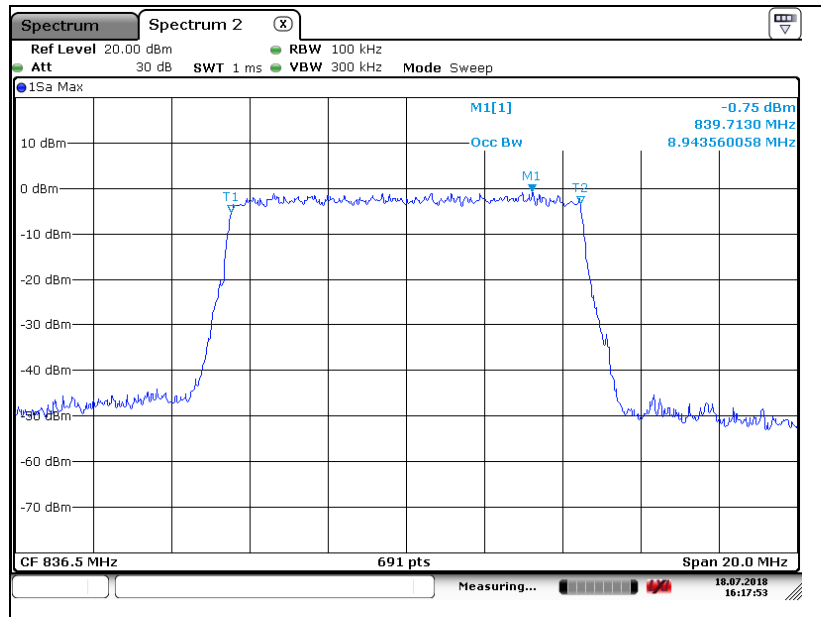
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LTE band 5 (10 MHz - QPSK)

Low Channel

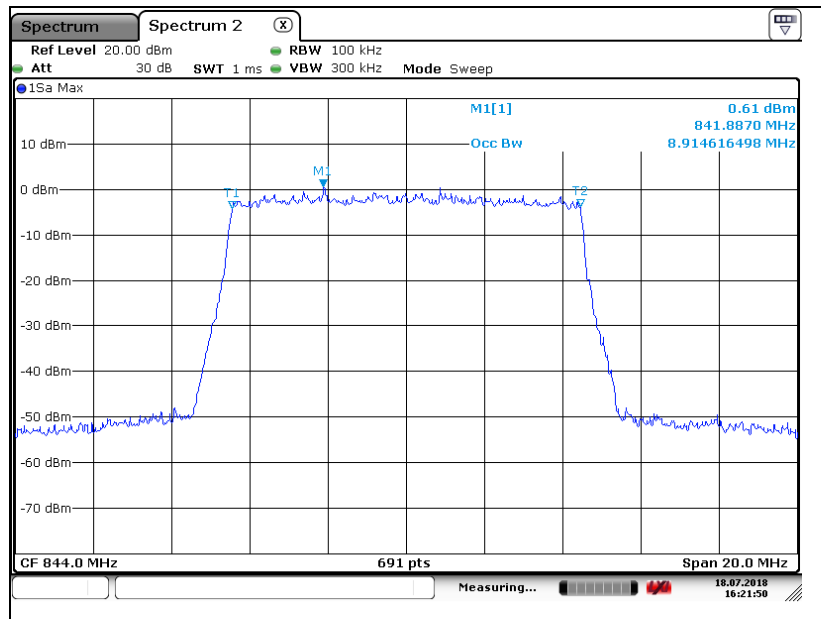


Middle Channel



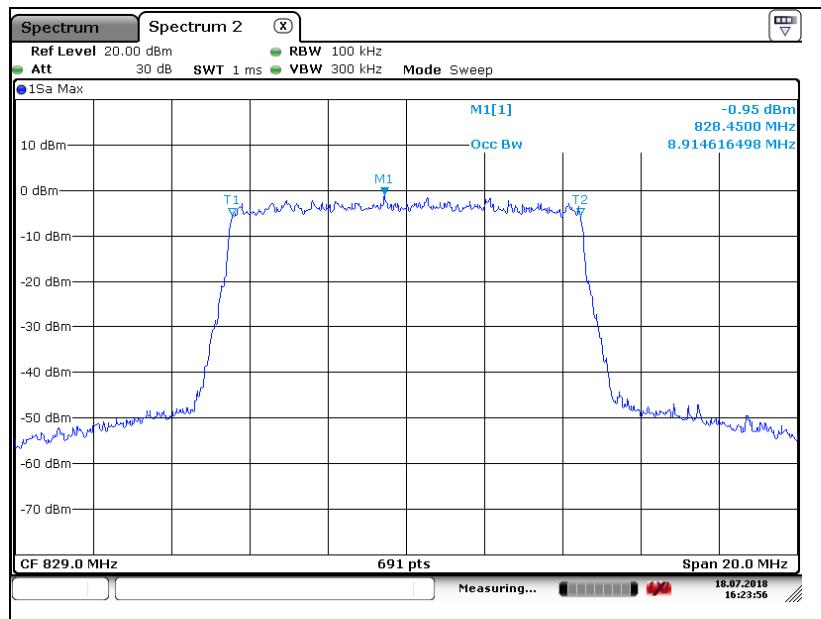
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High Channel



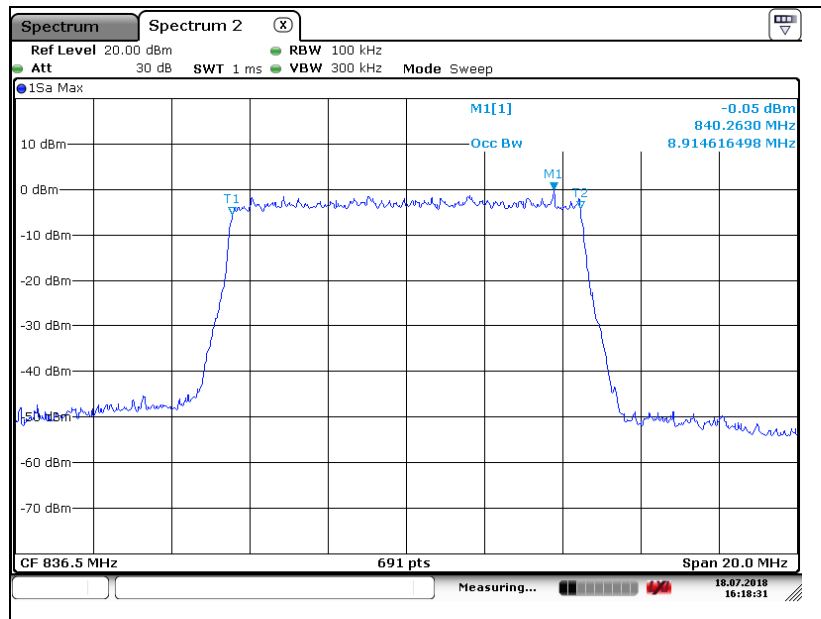
LTE band 5 (10 MHz - 16QAM)

Low Channel

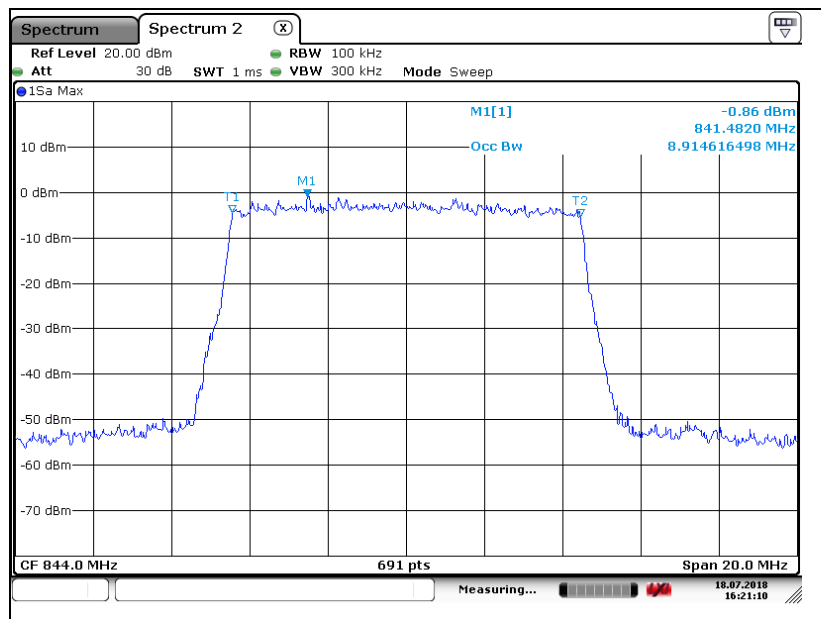


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Middle Channel



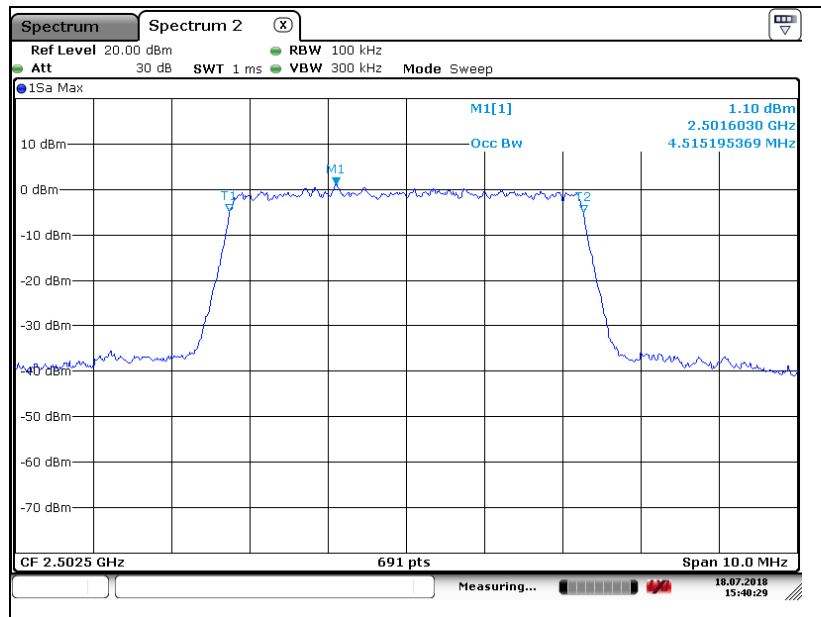
High Channel



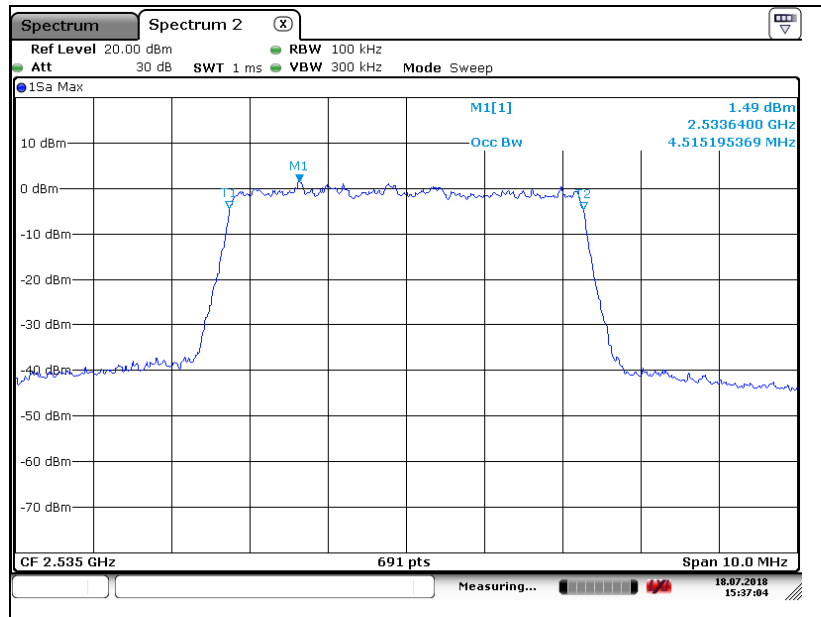
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LTE band 7 (5 MHz - QPSK)

Low Channel

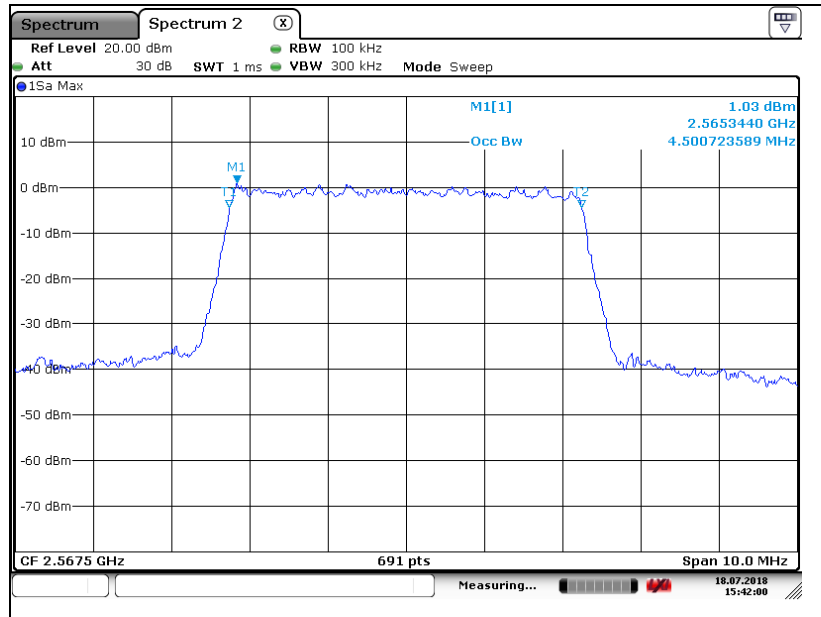


Middle Channel



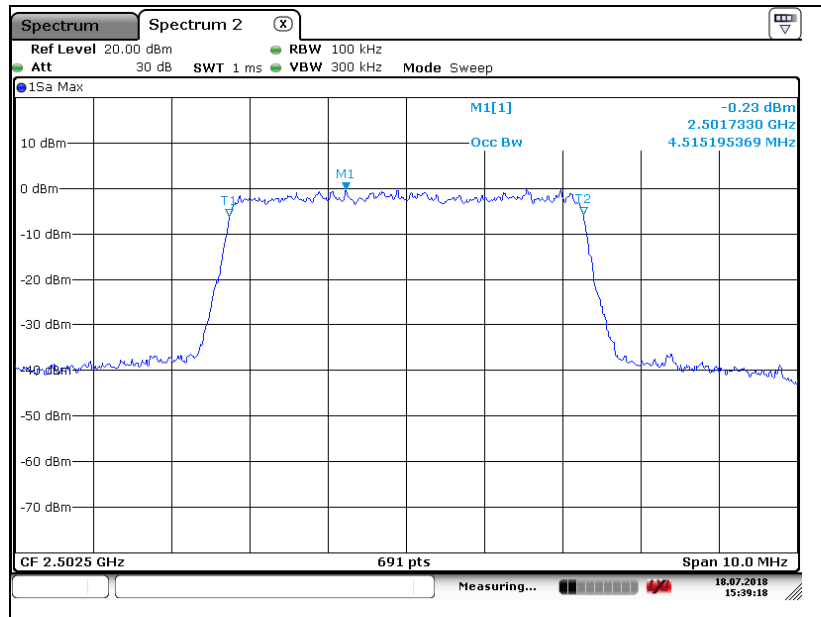
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High Channel



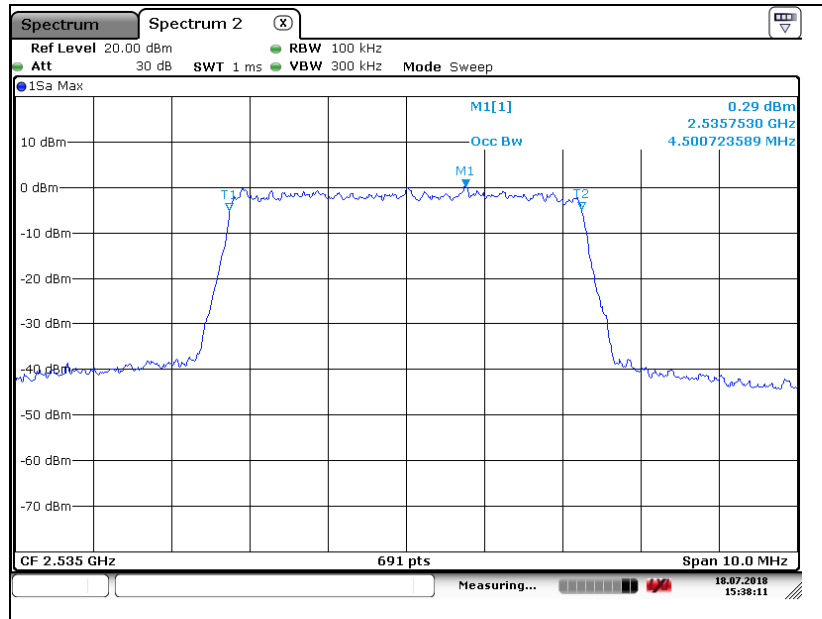
LTE band 7 (5 MHz - 16QAM)

Low Channel

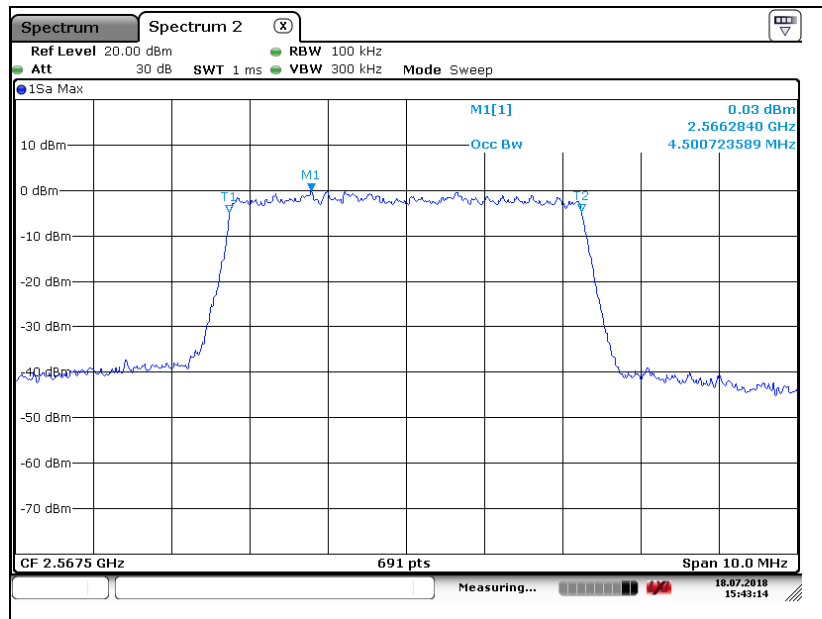


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Middle Channel



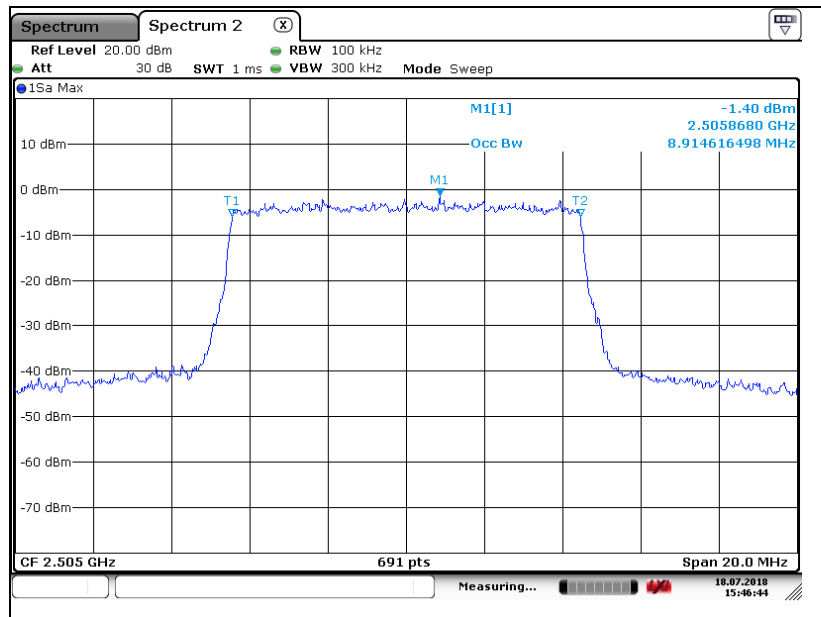
High Channel



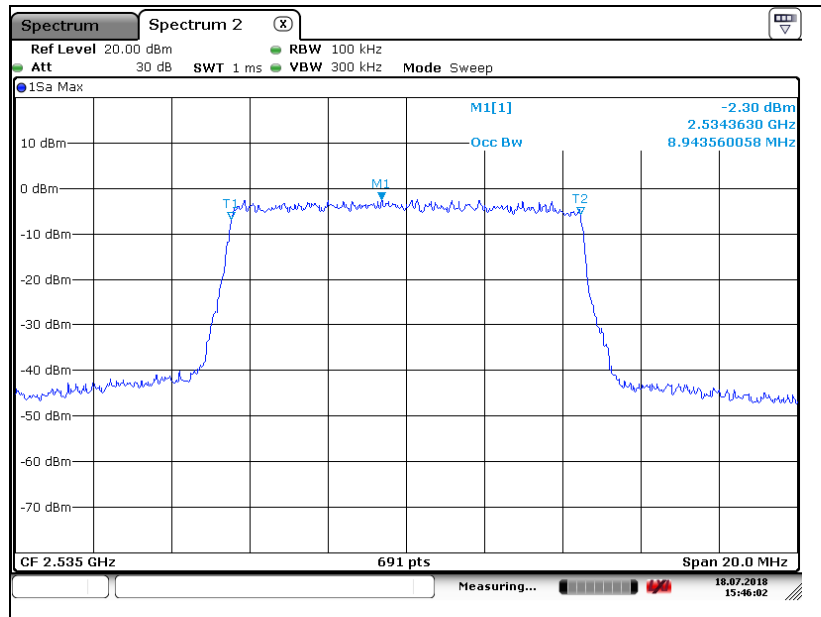
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LTE band 7 (10 MHz - QPSK)

Low Channel

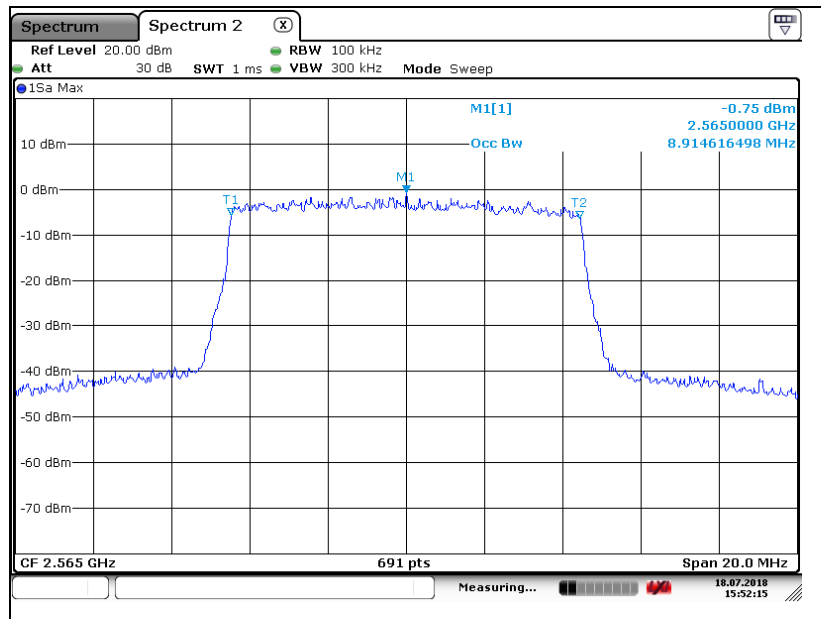


Middle Channel



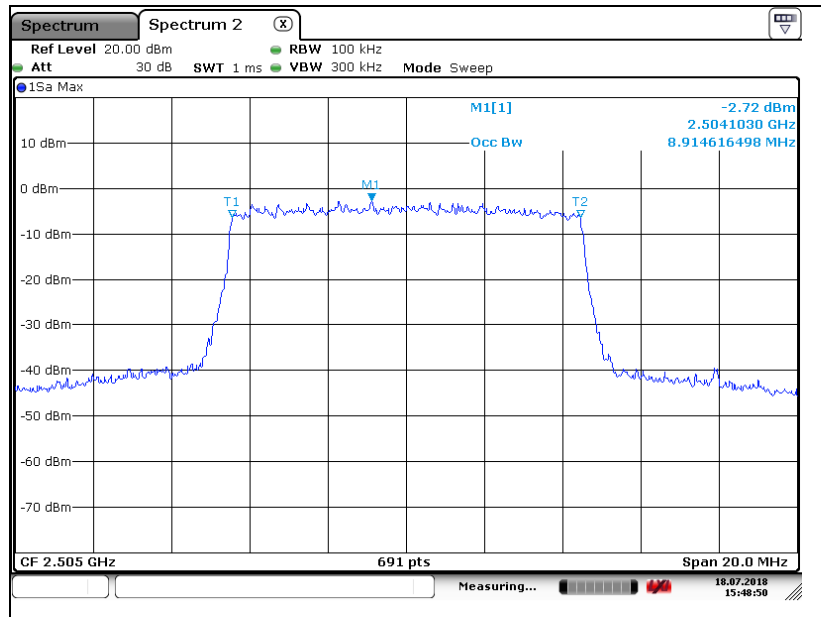
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

High Channel



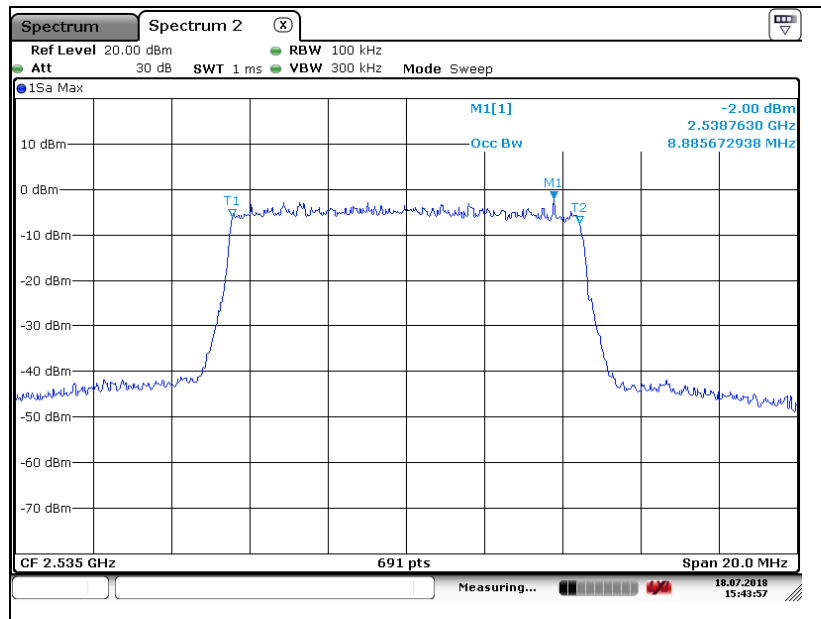
LTE band 7 (10 MHz - 16QAM)

Low Channel

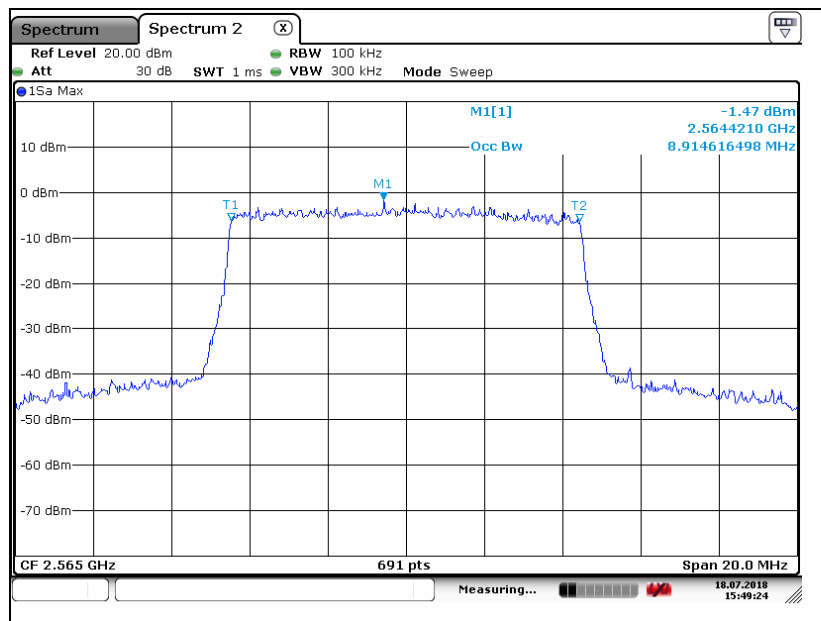


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Middle Channel



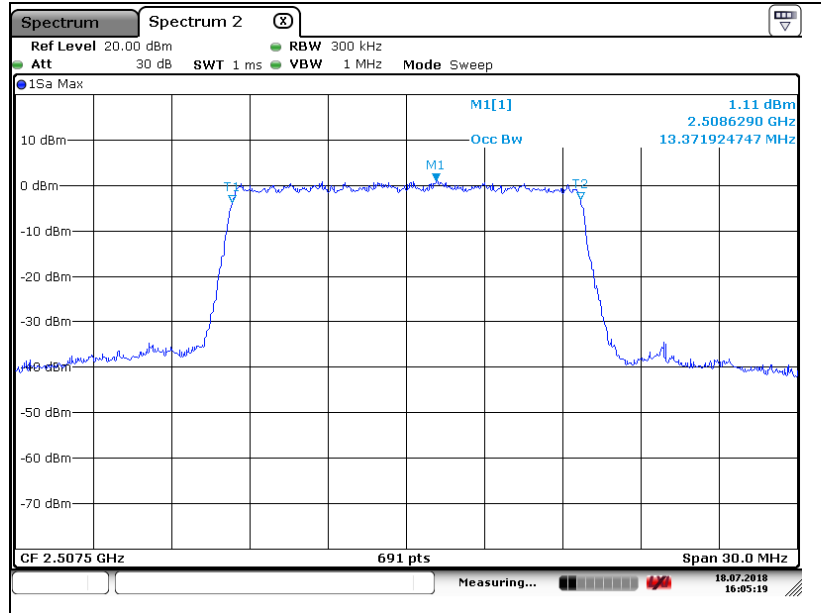
High Channel



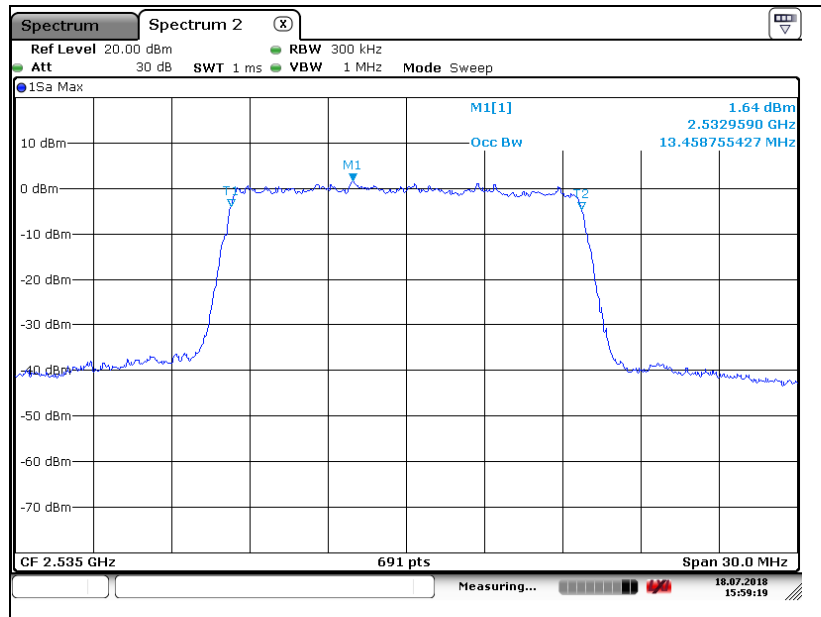
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LTE band 7 (15 MHz - QPSK)

Low Channel

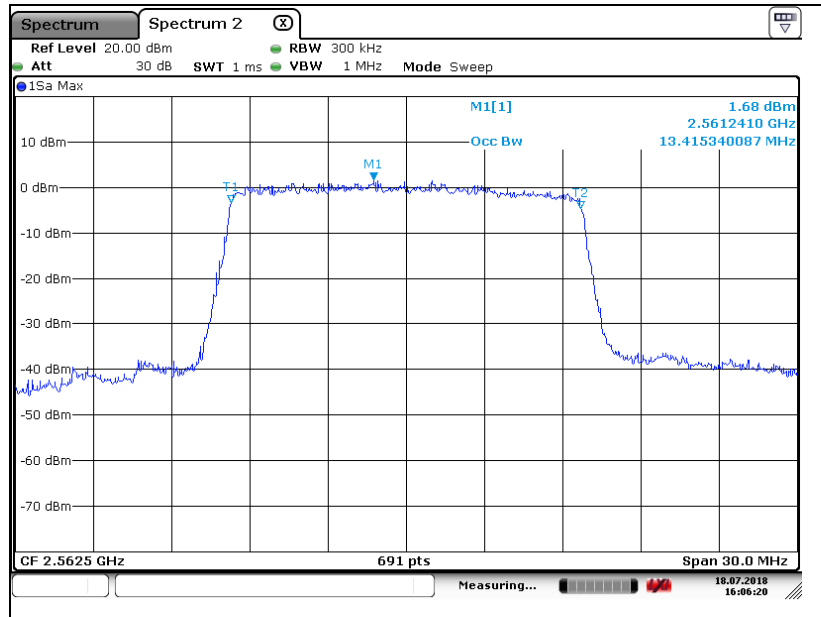


Middle Channel



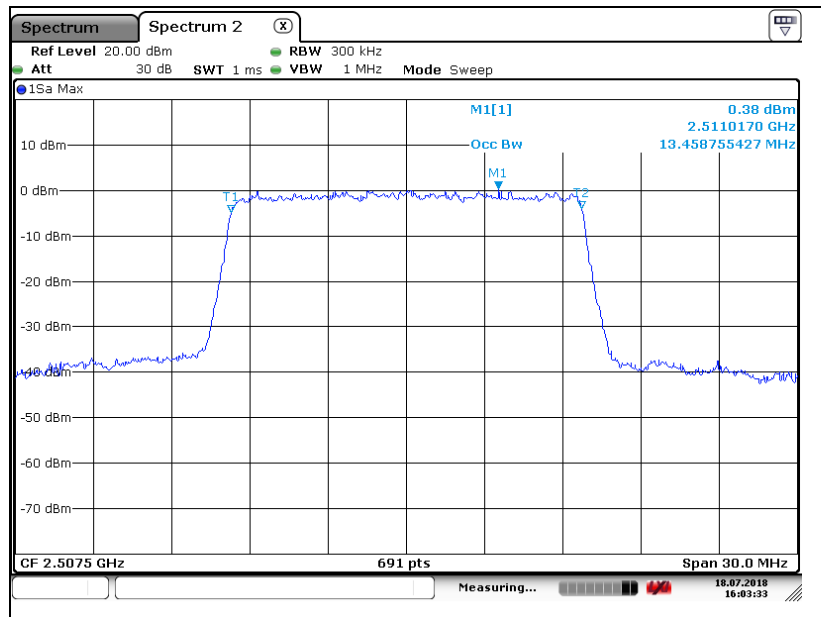
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High Channel



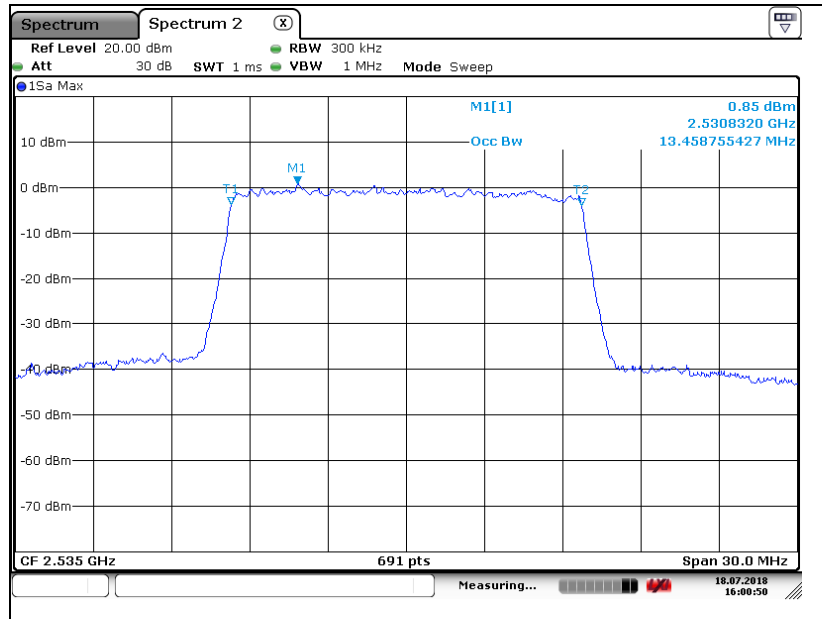
LTE band 7 (15 MHz - 16QAM)

Low Channel

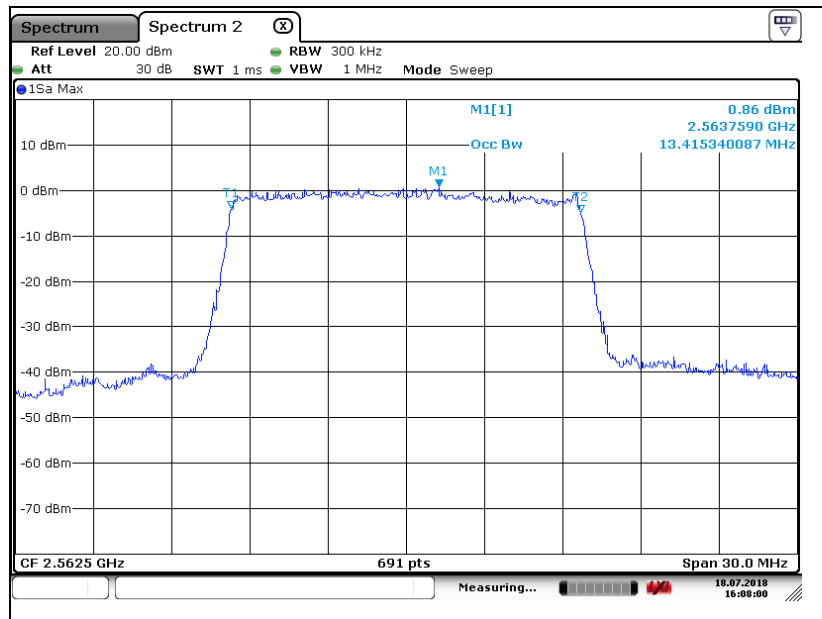


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Middle Channel



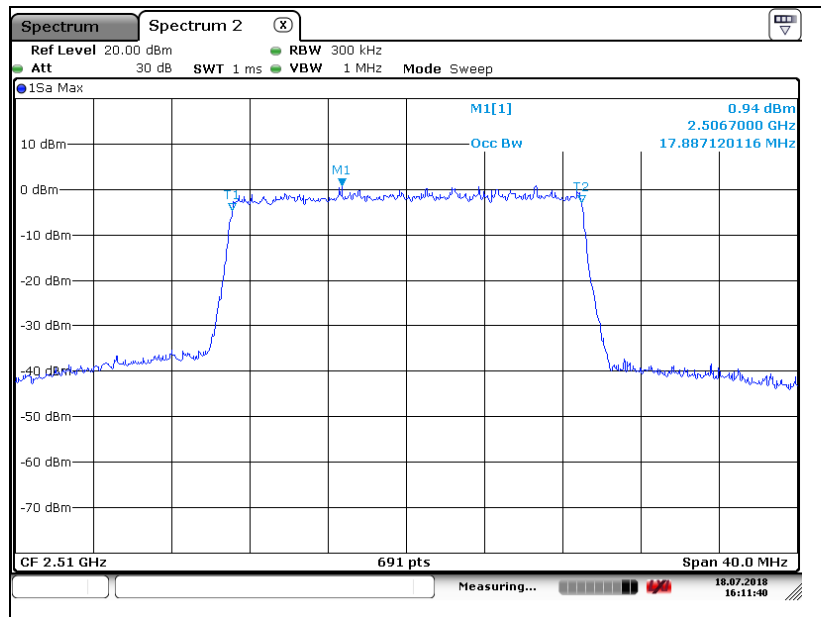
High Channel



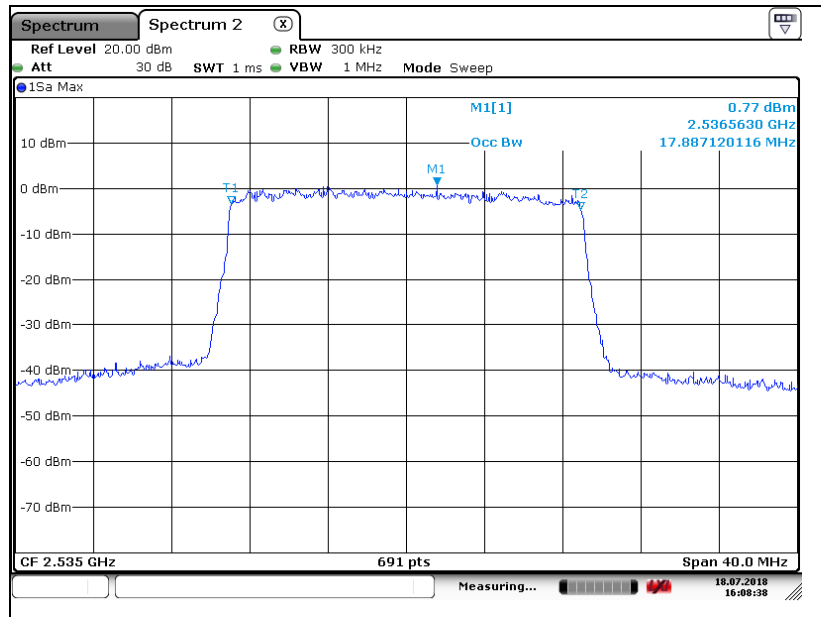
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LTE band 7 (20 MHz - QPSK)

Low Channel

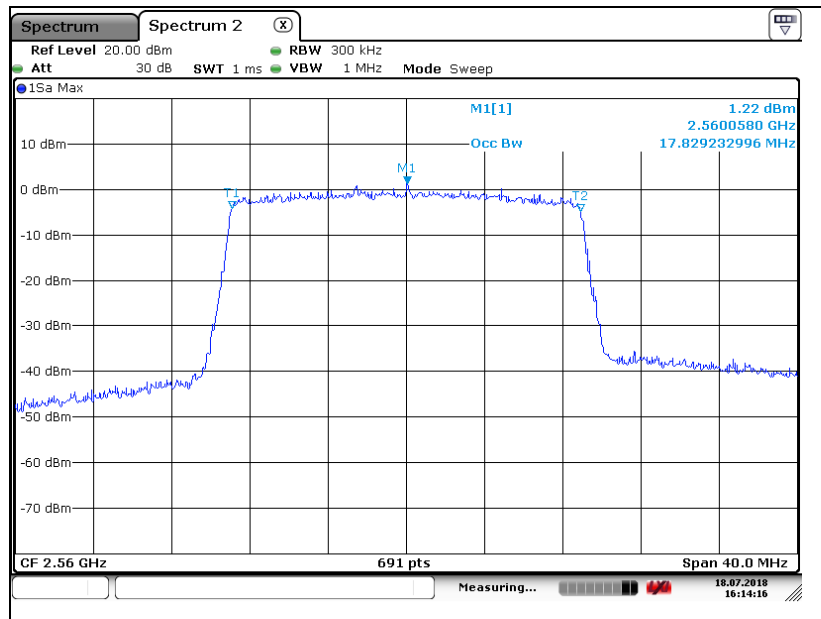


Middle Channel



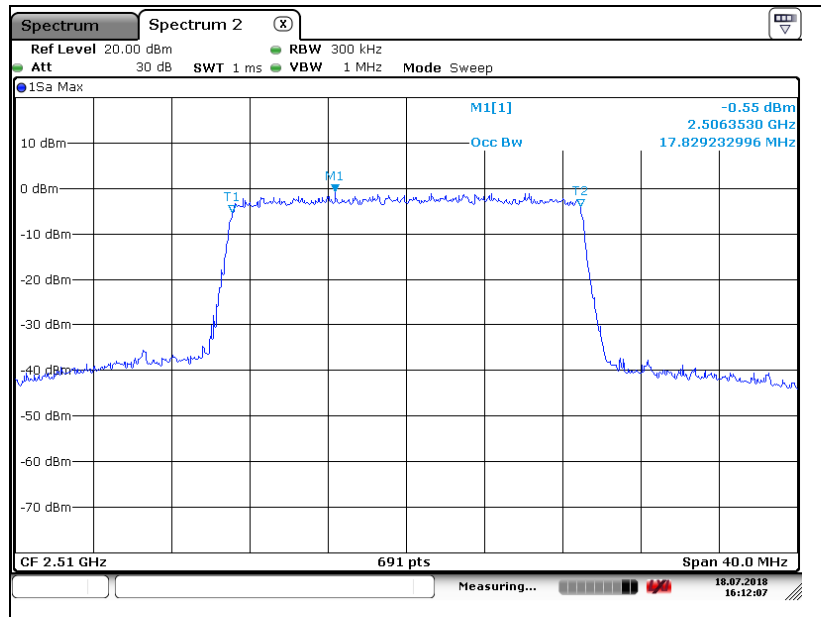
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High Channel



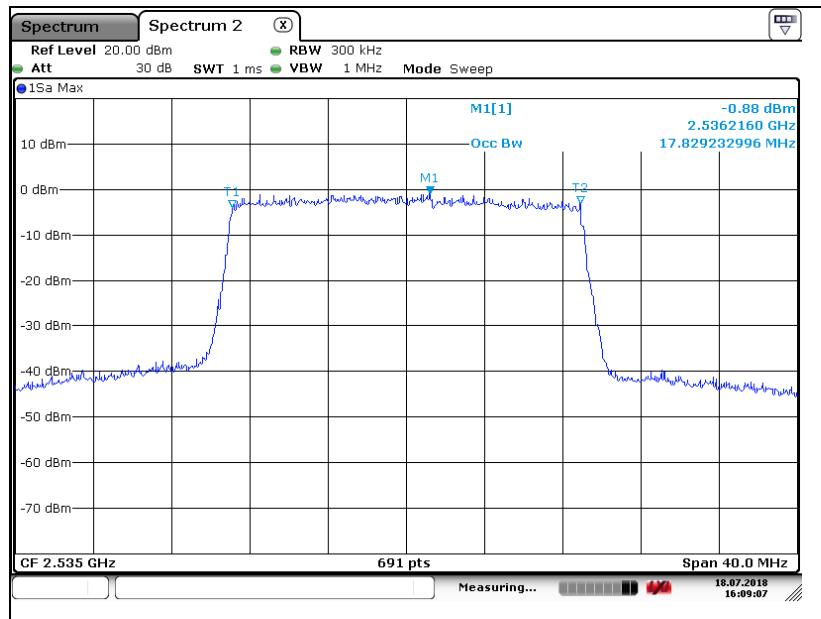
LTE band 7 (20 MHz - 16QAM)

Low Channel

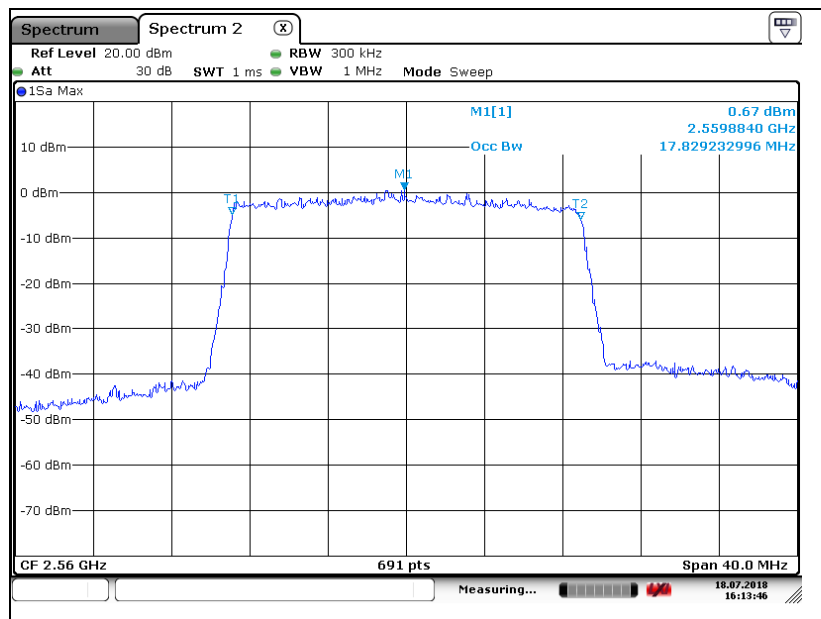


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Middle Channel



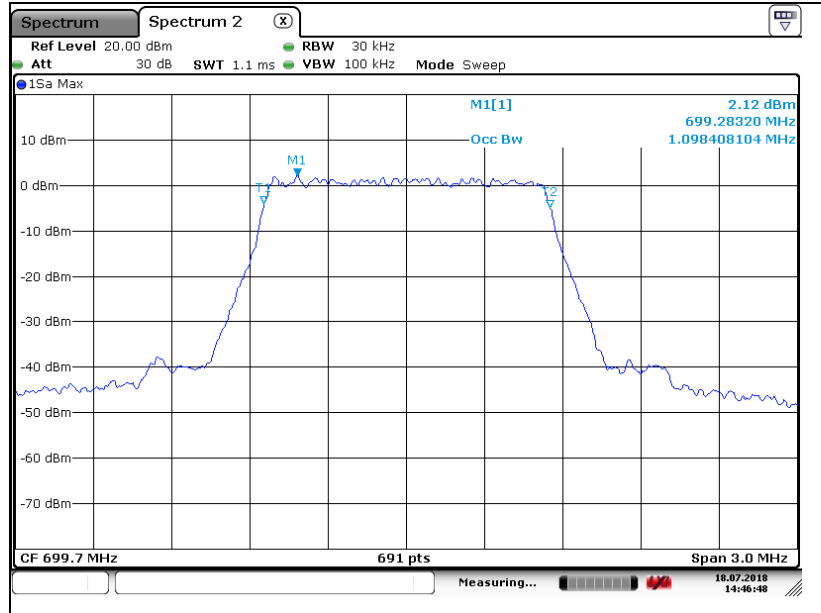
High Channel



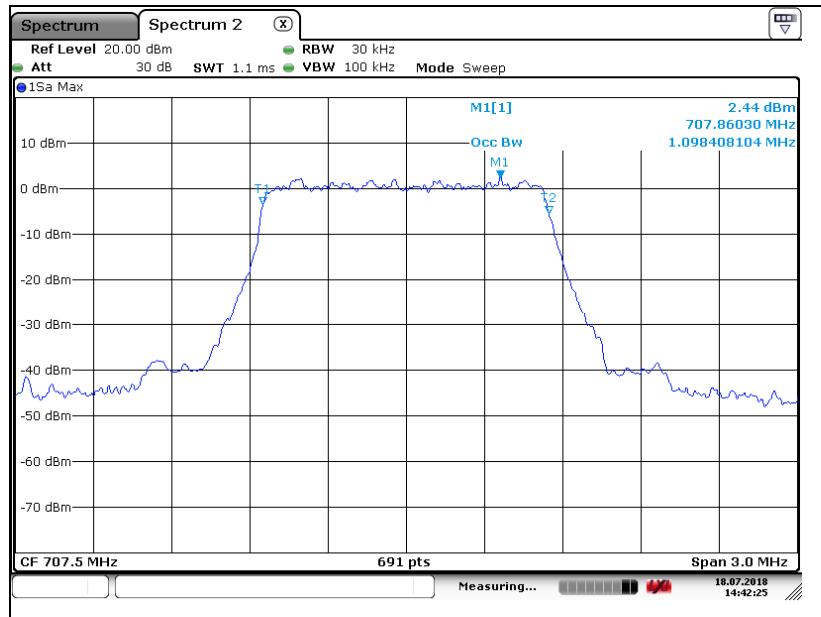
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LTE band 12 (1.4 MHz - QPSK)

Low Channel

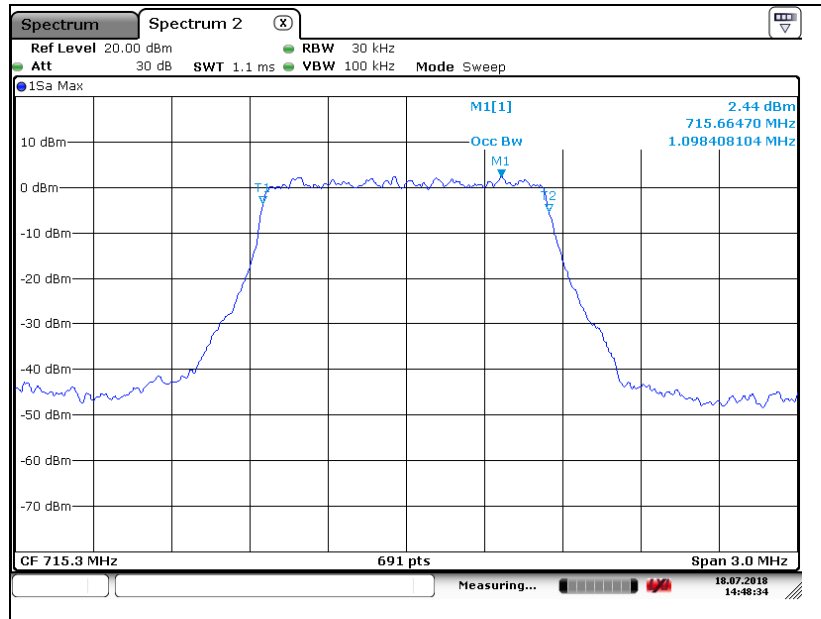


Middle Channel



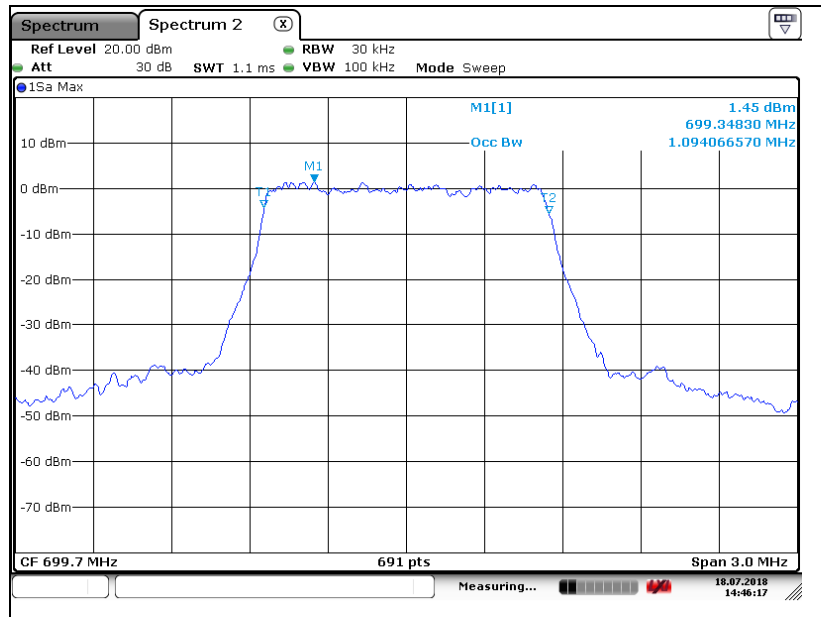
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High Channel



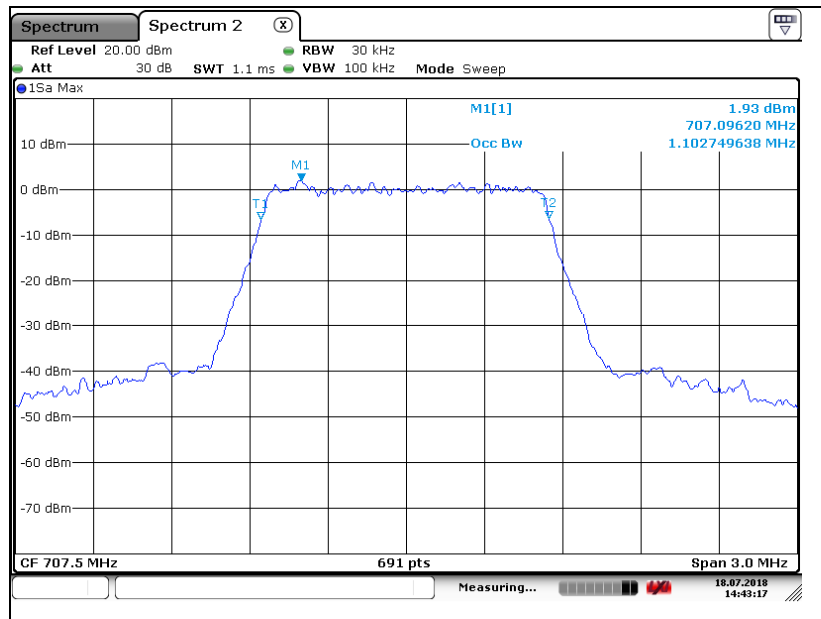
LTE band 12 (1.4 MHz - 16QAM)

Low Channel

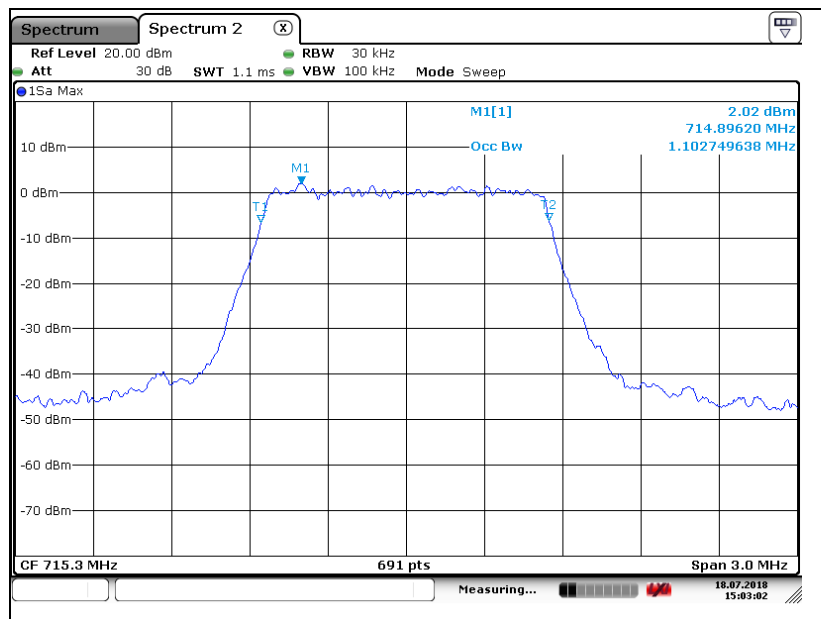


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Middle Channel



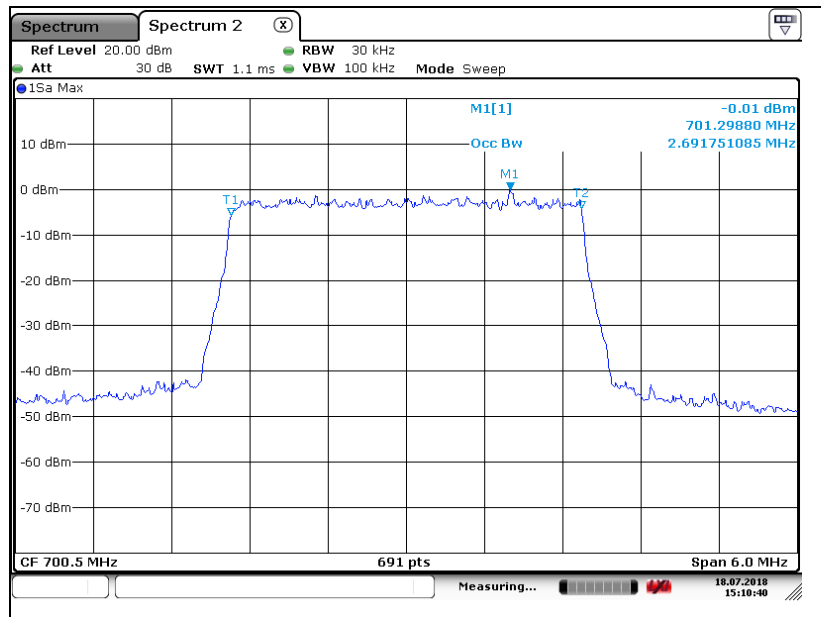
High Channel



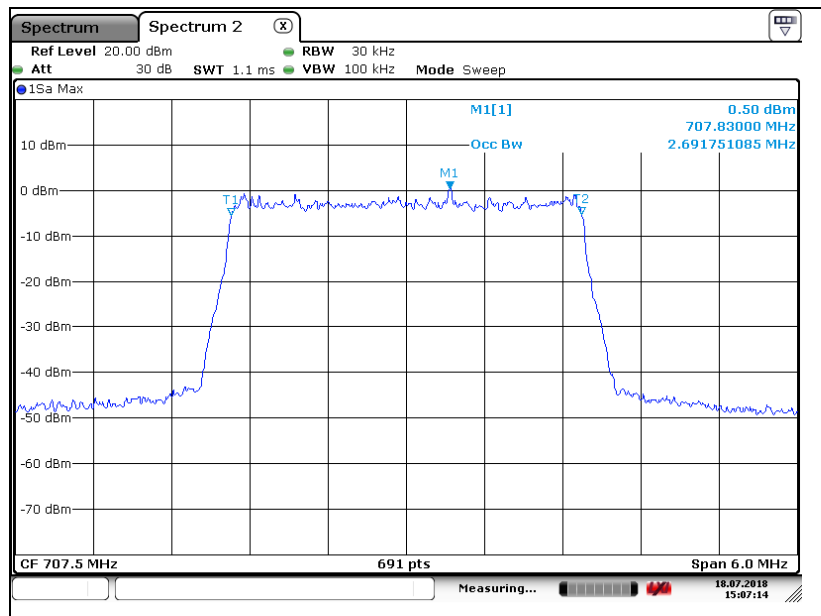
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LTE band 12 (3 MHz - QPSK)

Low Channel

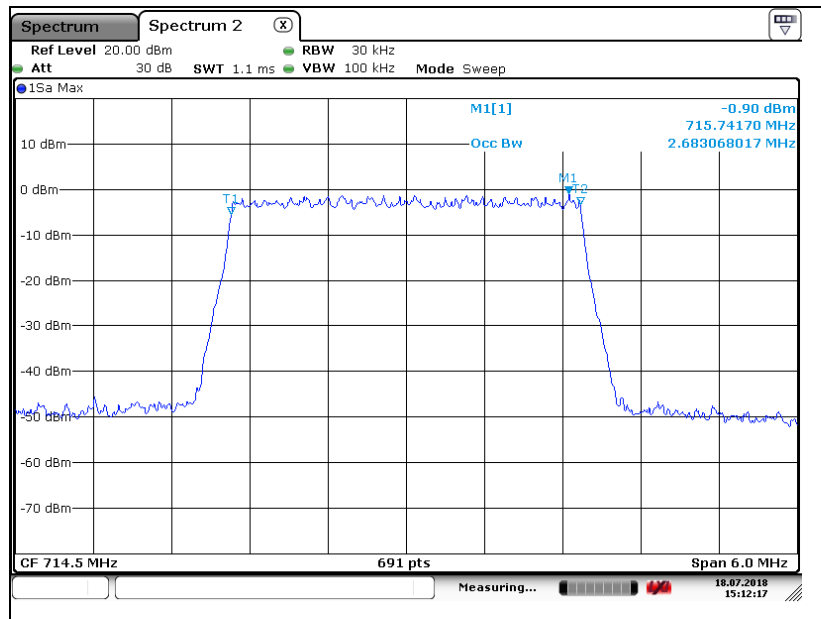


Middle Channel



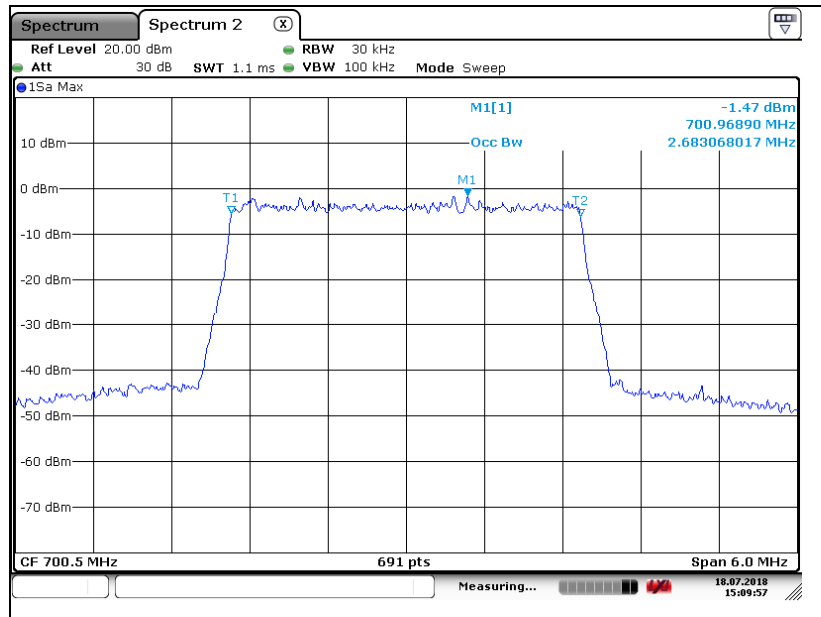
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High Channel



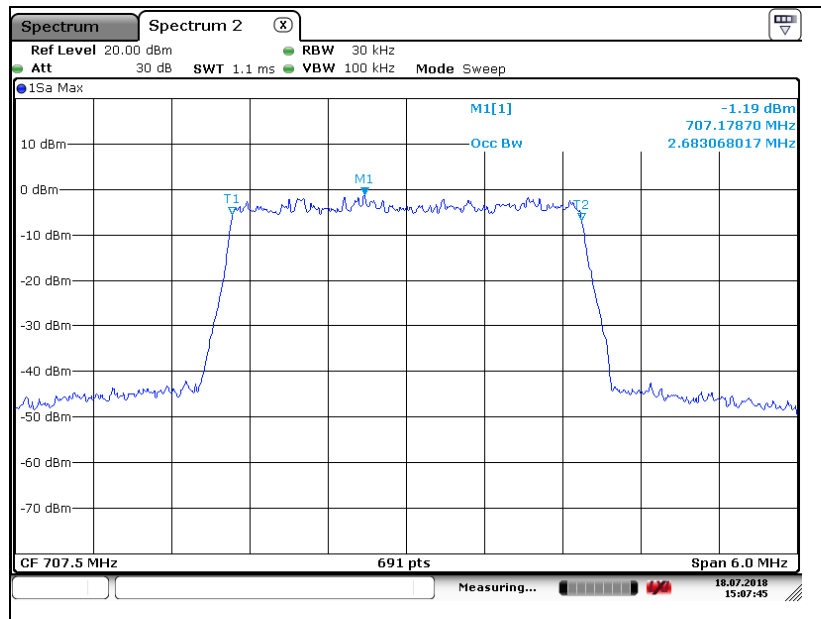
LTE band 12 (3 MHz - 16QAM)

Low Channel

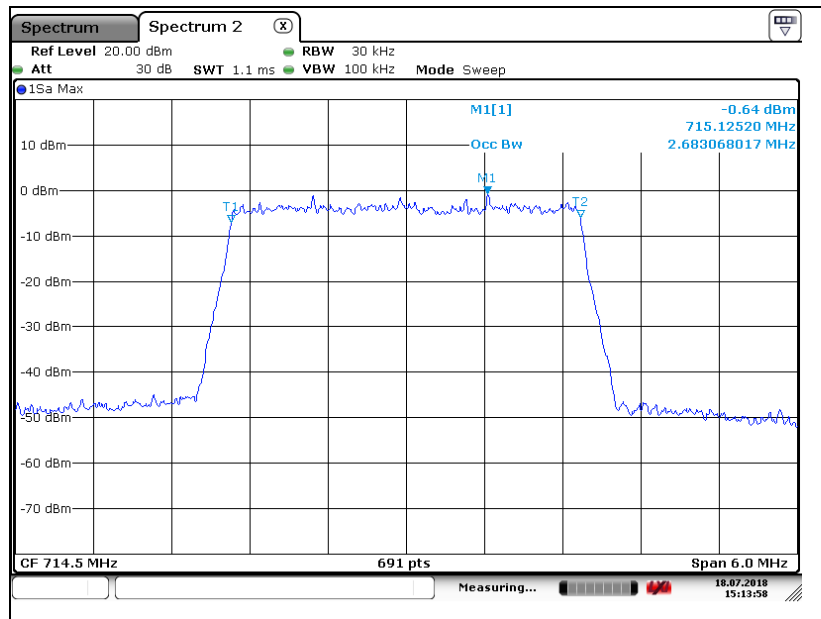


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Middle Channel



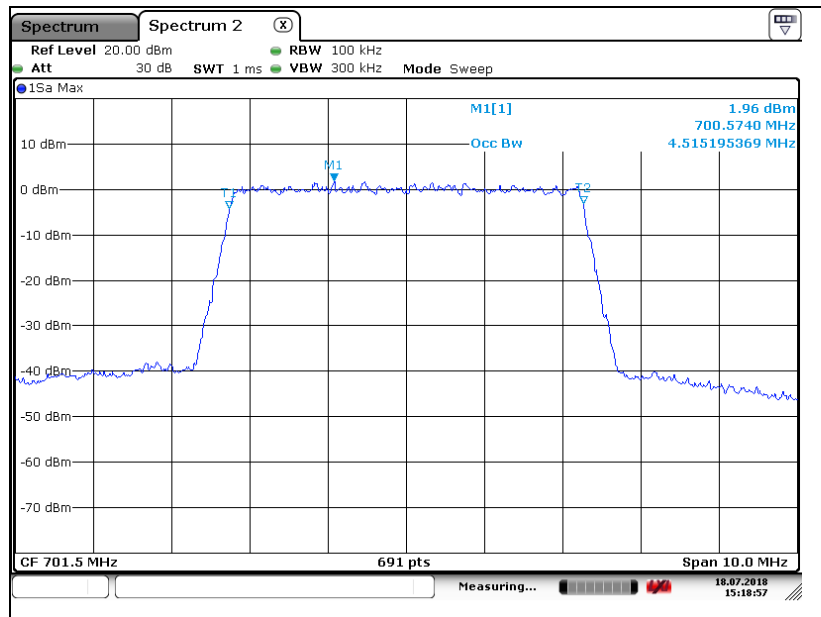
High Channel



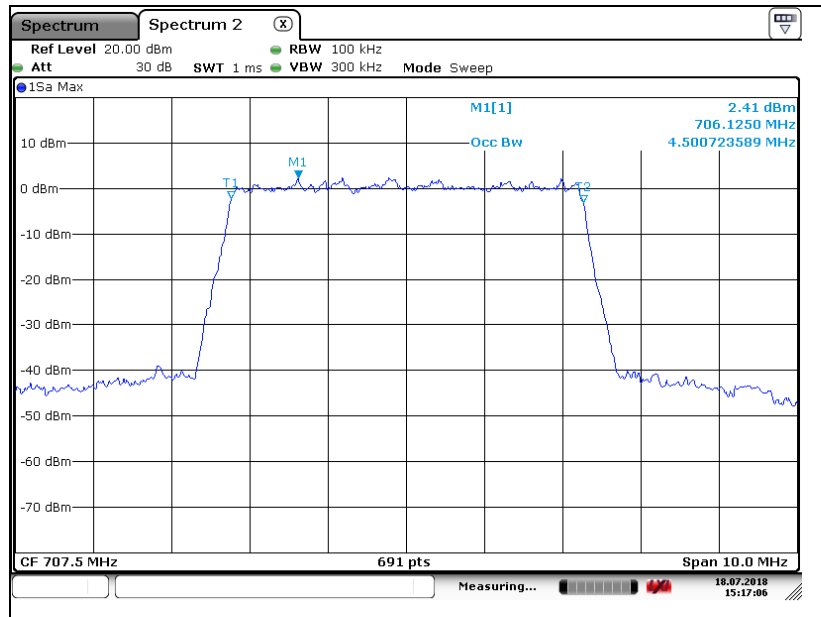
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LTE band 12 (5 MHz - QPSK)

Low Channel

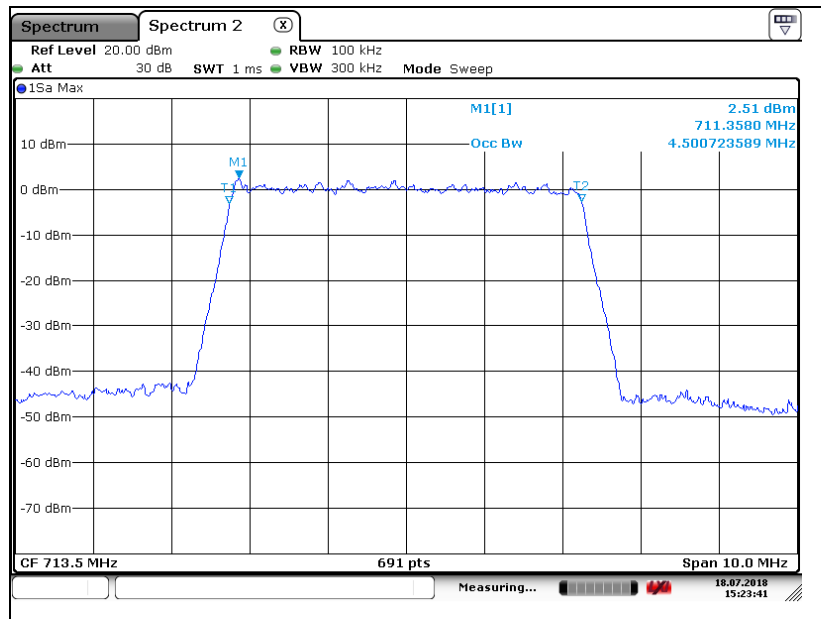


Middle Channel



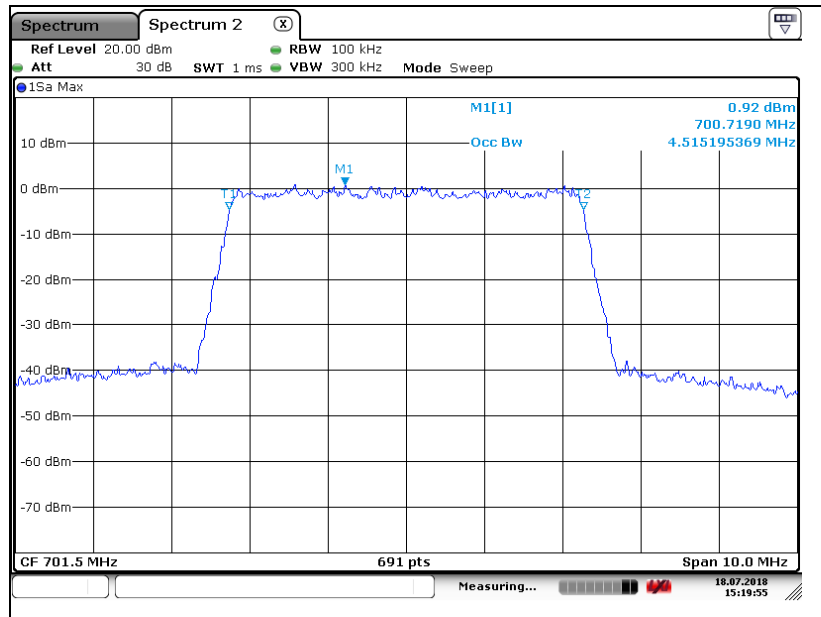
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High Channel



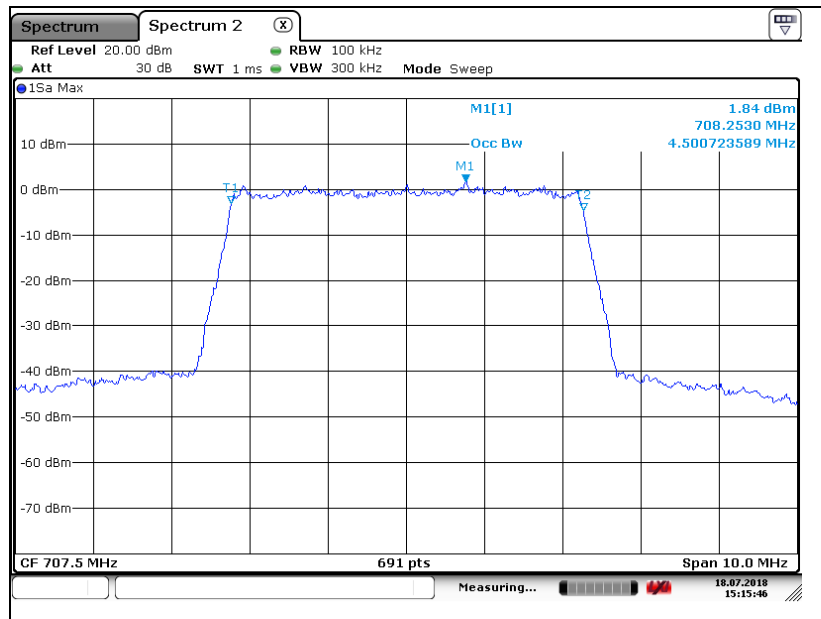
LTE band 12 (5 MHz - 16QAM)

Low Channel

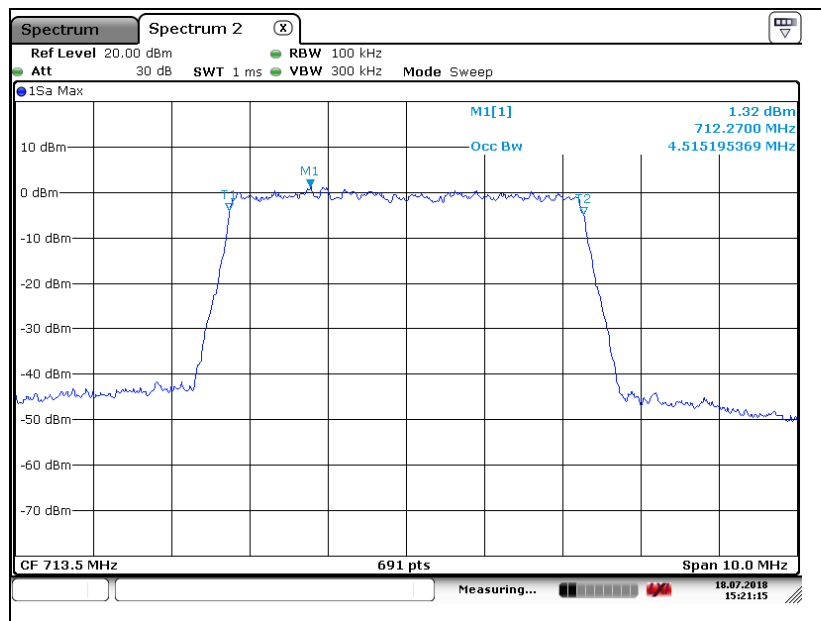


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Middle Channel



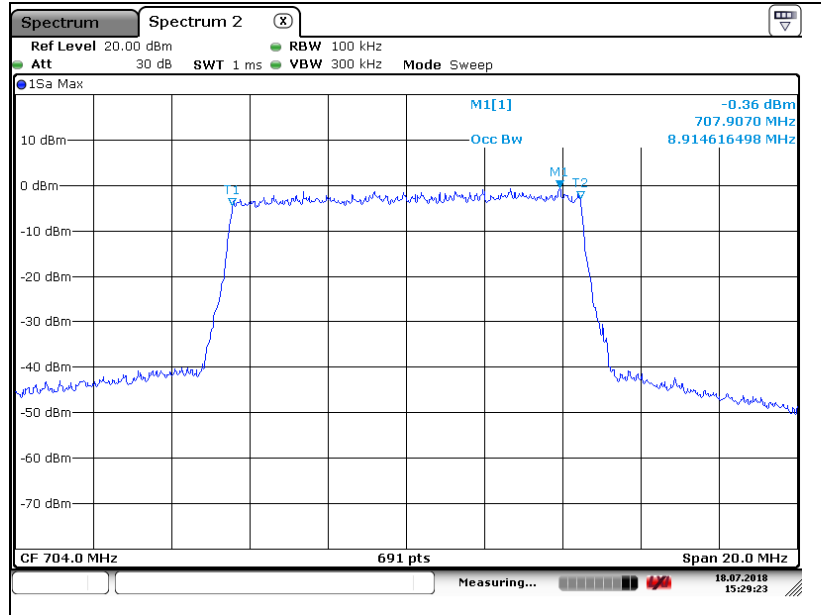
High Channel



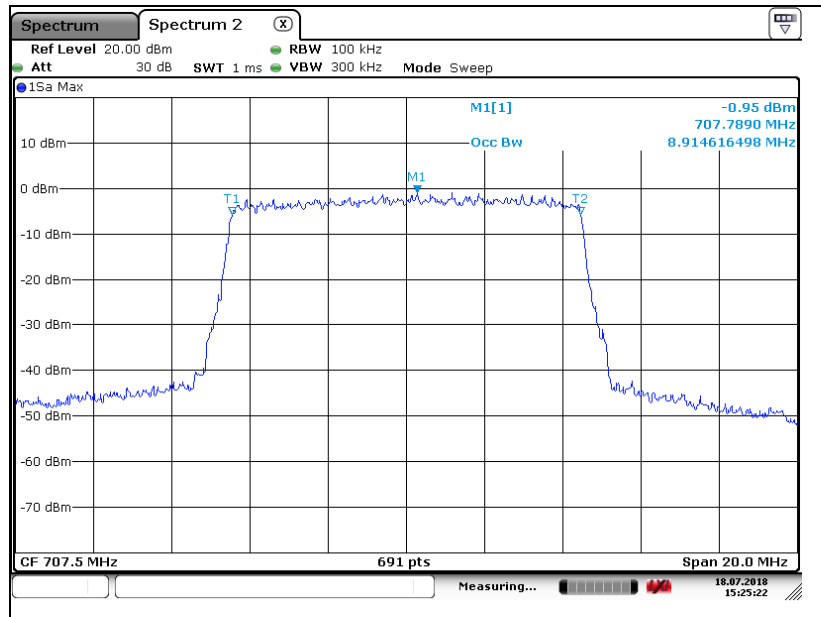
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LTE band 12 (10 MHz - QPSK)

Low Channel

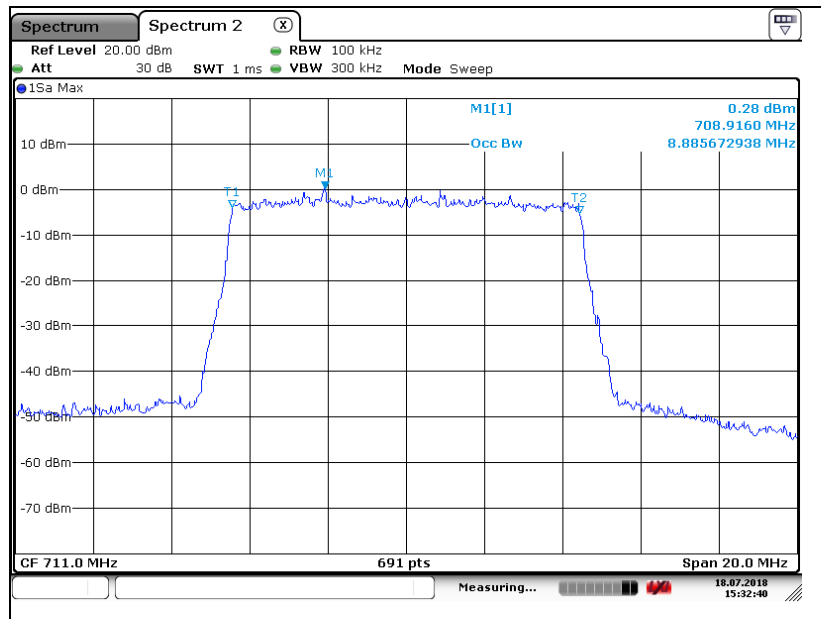


Middle Channel



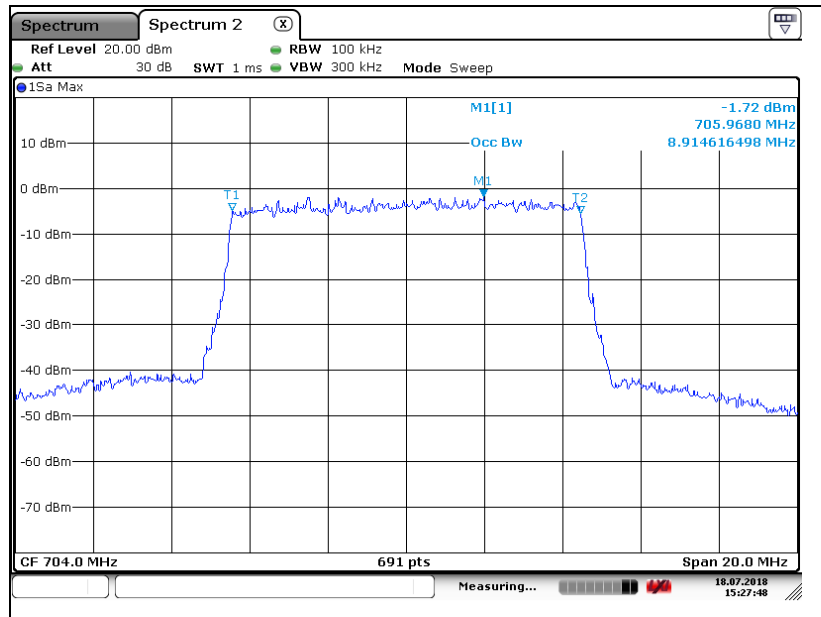
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High Channel



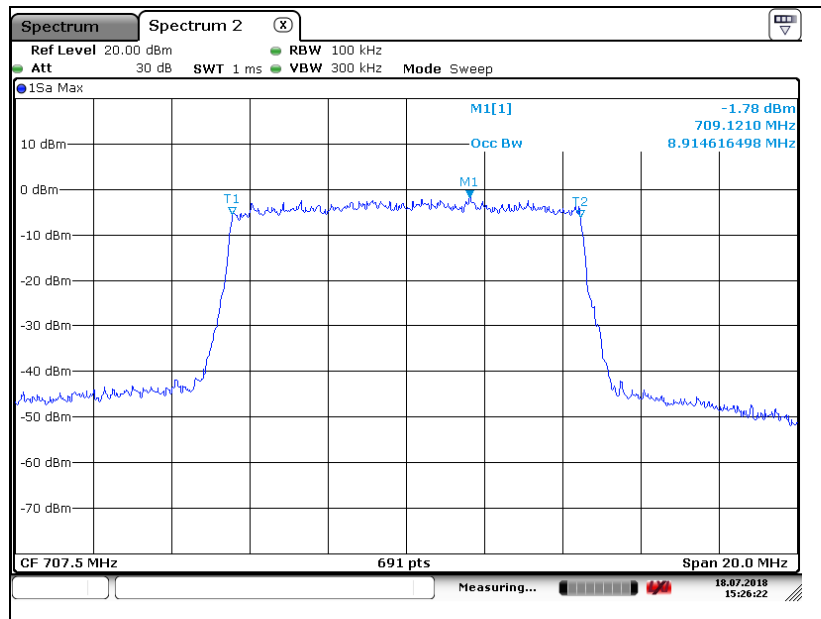
LTE band 12 (10 MHz - 16QAM)

Low Channel

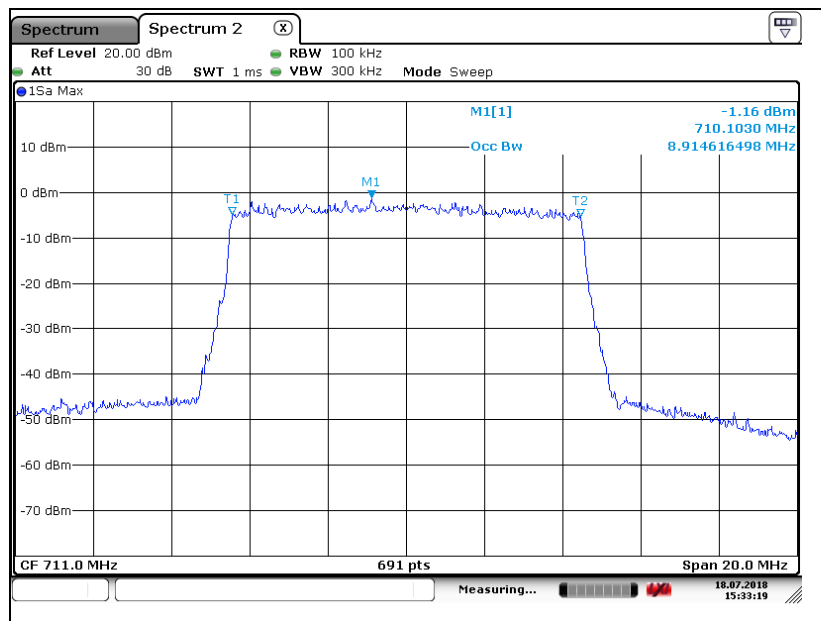


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Middle Channel



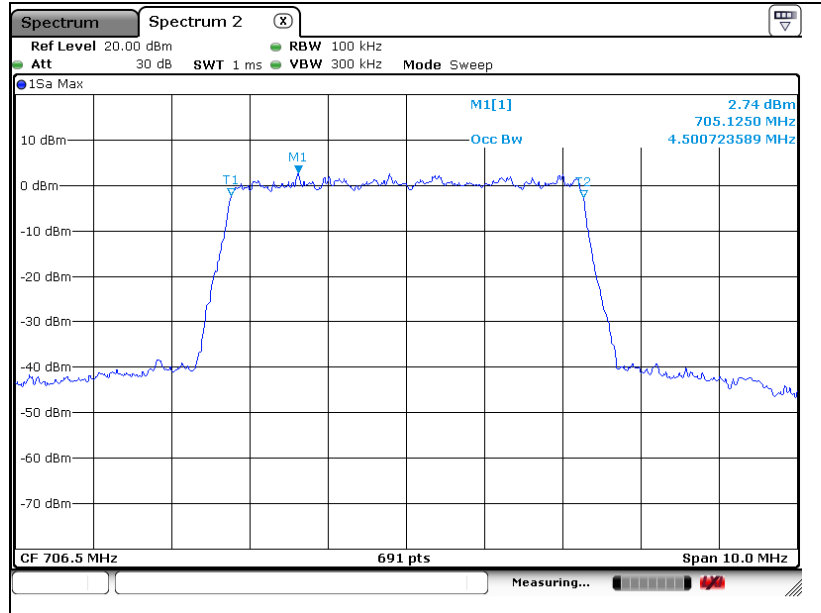
High Channel



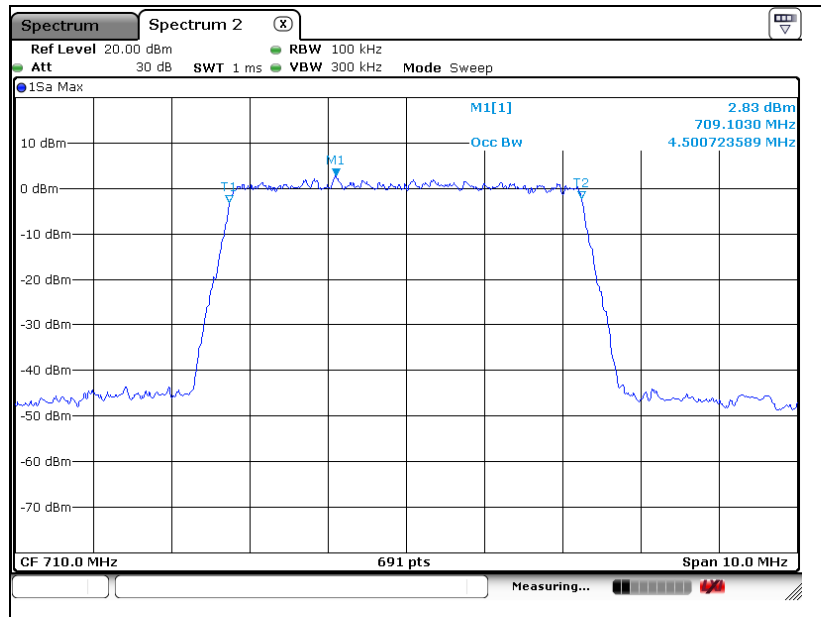
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LTE band 17 (5 MHz - QPSK)

Low Channel

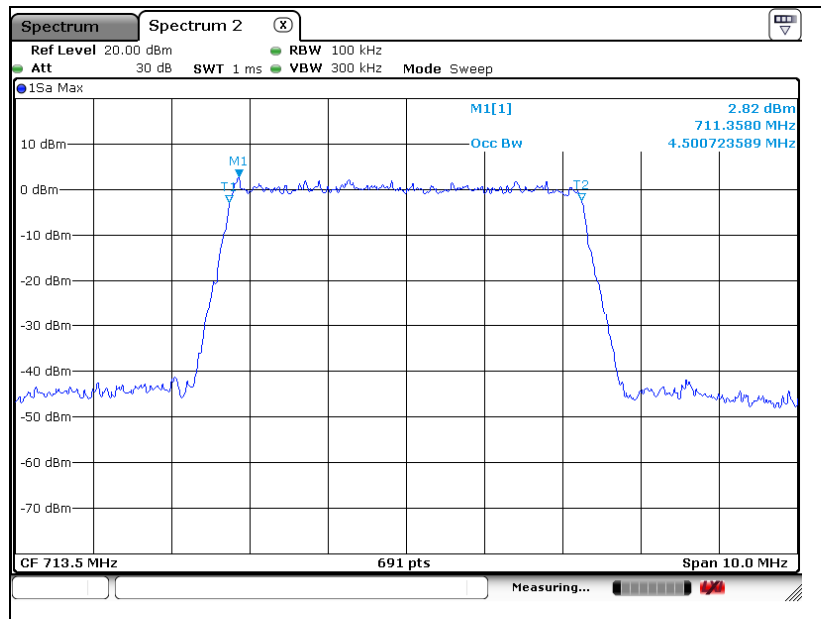


Middle Channel



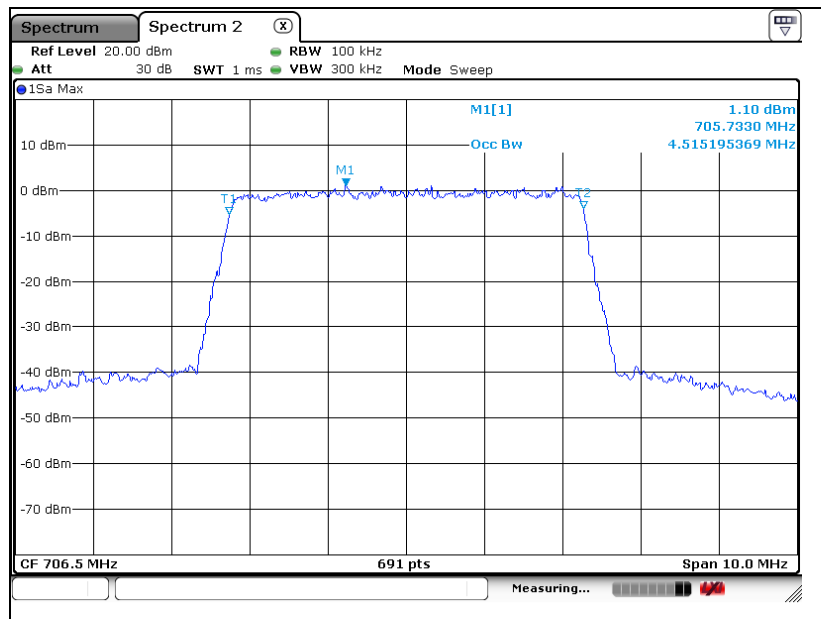
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High Channel



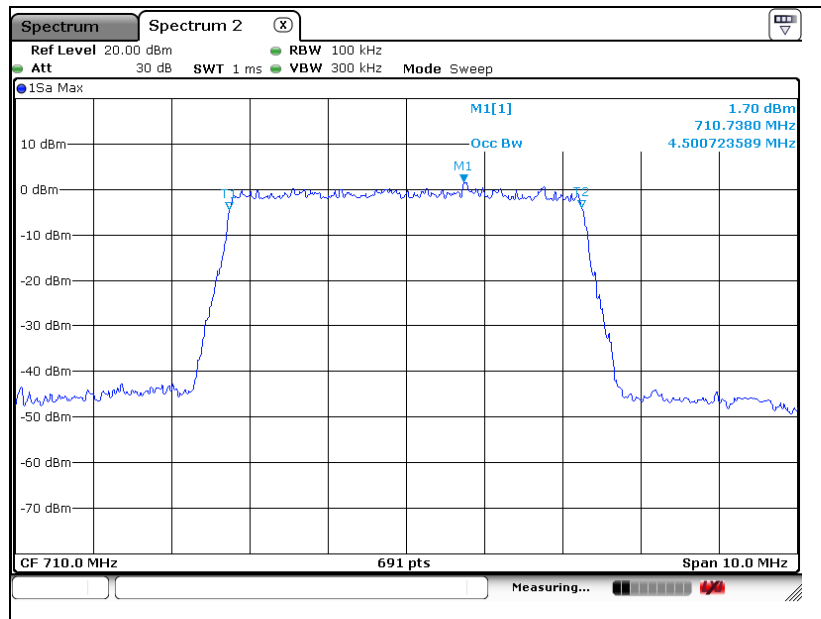
LTE band 17 (5 MHz - 16QAM)

Low Channel

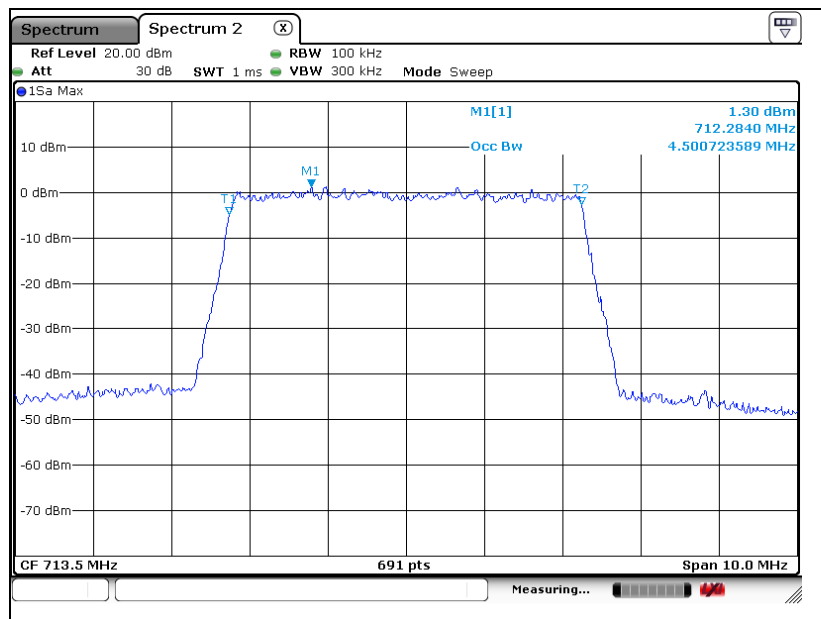


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Middle Channel



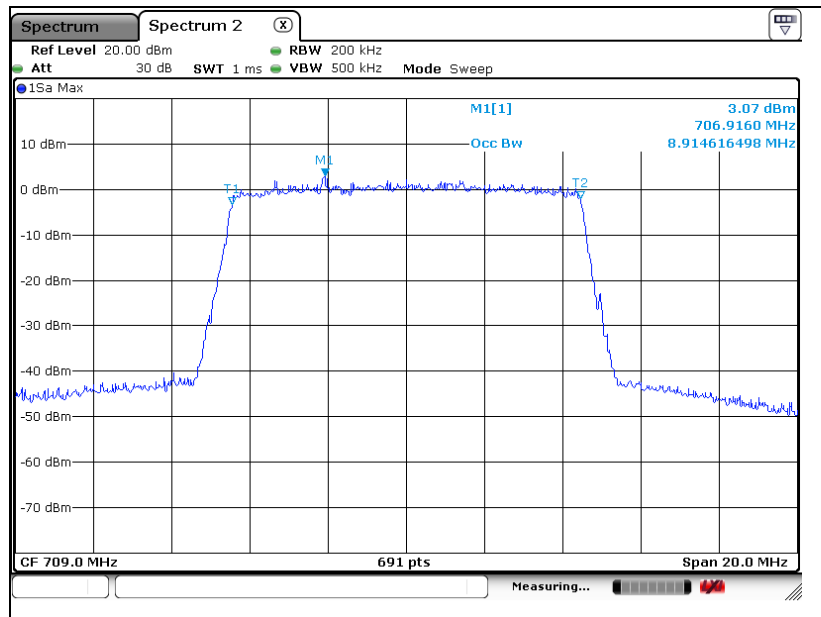
High Channel



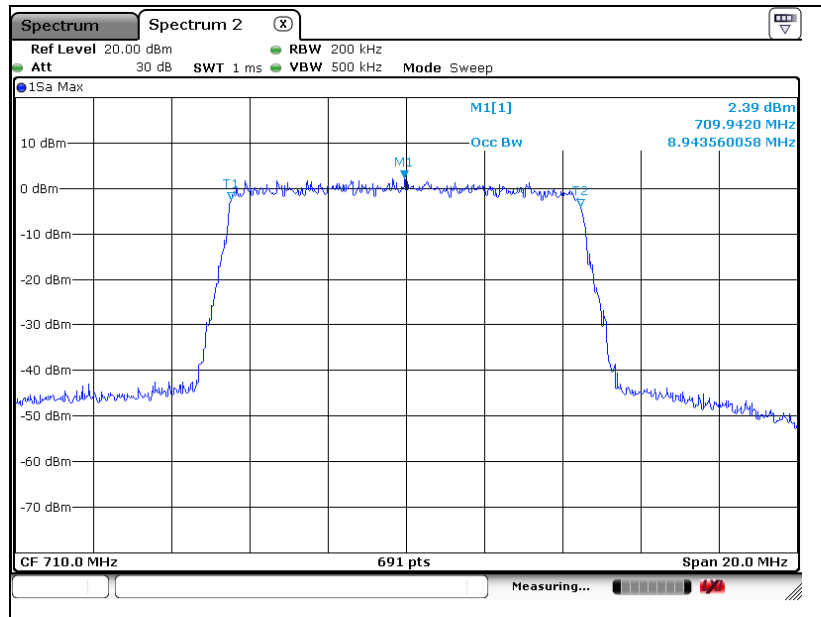
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LTE band 17 (10 MHz - QPSK)

Low Channel

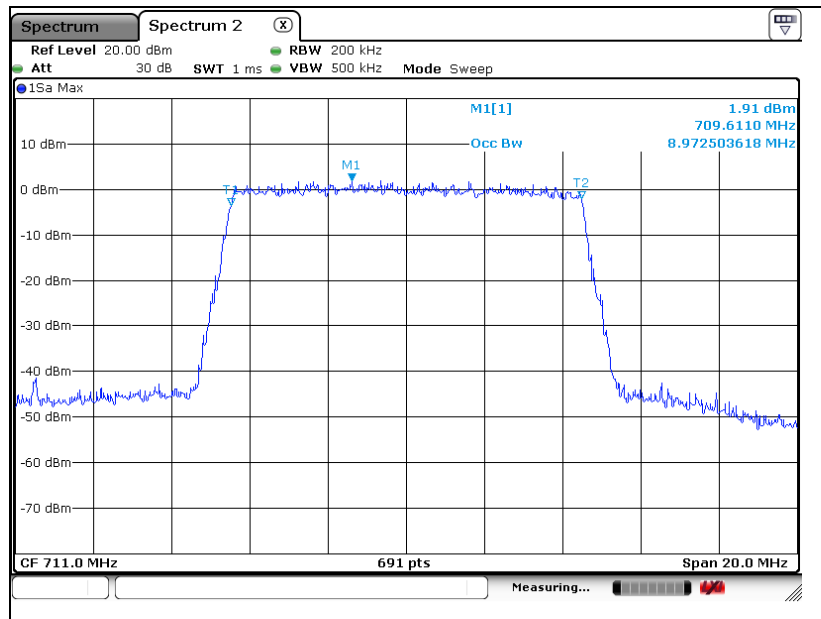


Middle Channel



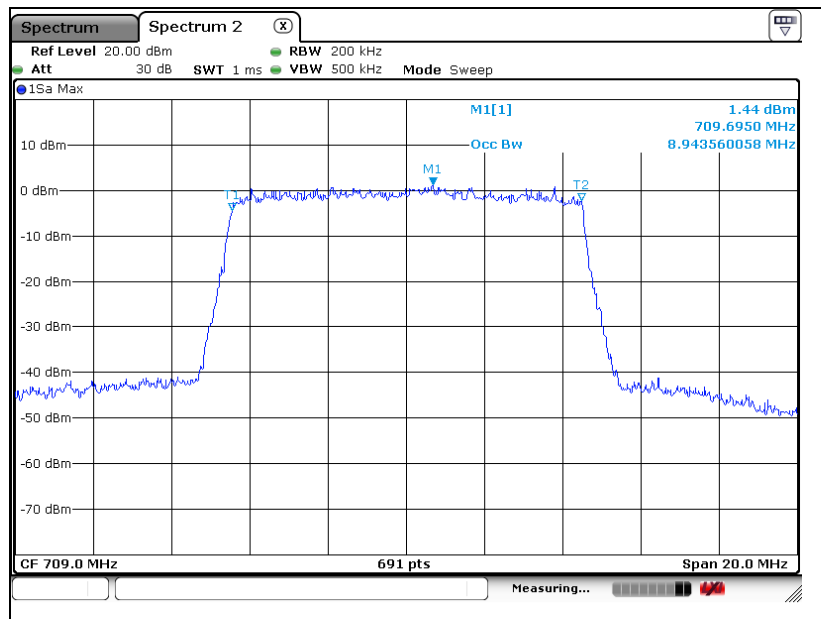
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High Channel



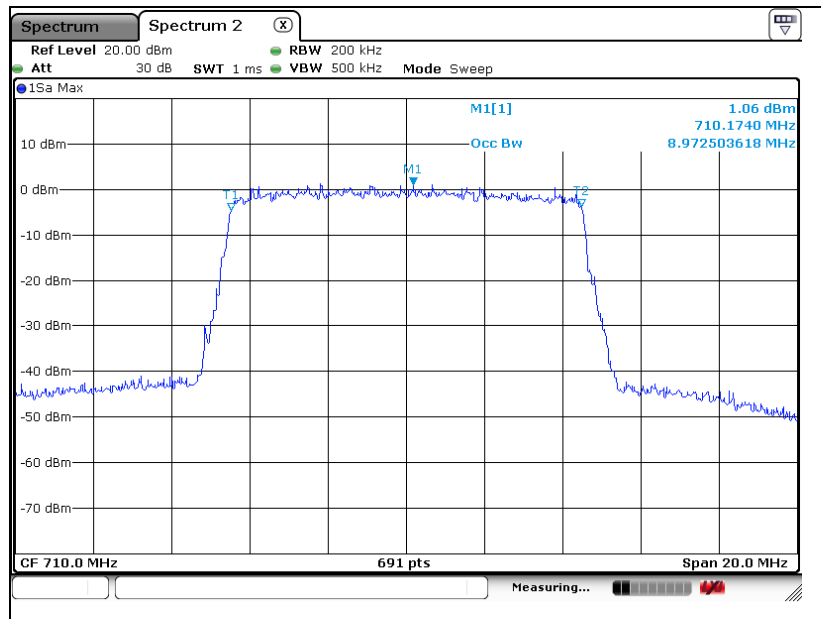
LTE band 17 (10 MHz - 16QAM)

Low Channel

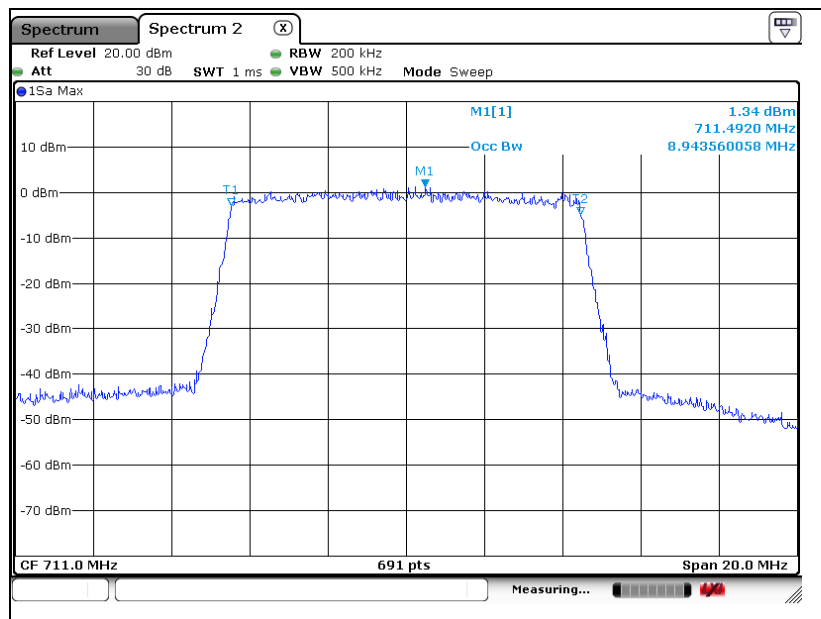


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Middle Channel



High Channel



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5. Peak-Average Ratio

5.1. Limit

FCC

- §22.913(d) Measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

- §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

- §27.50(d)(5), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

IC

- RSS-130 Issue 1

4.4, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1 % of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

- RSS-132 Issue 3

5.4, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1 % of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

- RSS-133 Issue 6

6.4, the transmitter's peak-to-average power ratio (PAPR) shall not exceed 13 dB for more than 0.1 % of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

- RSS-139 Issue 3

6.5, the peak to average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1 % of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

- RSS-199 Issue 3

4.4, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

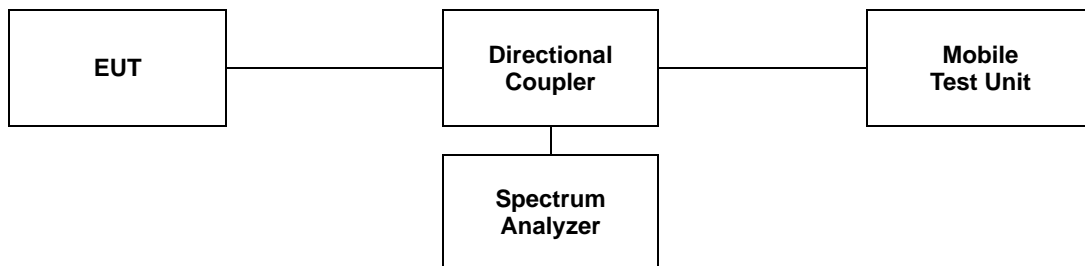
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5.2. Test Procedure

The test follows section 5.7.2 of FCC KDB Publication 971168 D01 v03r01.

See instrumentation-specific application literature for further guidance regarding use of the CCDF capability. The following guidelines are offered for performing a CCDF measurement.

- a. Set resolution/measurement bandwidth \geq OBW or specified reference bandwidth.
- b. Set the number of counts to a value that stabilizes the measured CCDF curve.
- c. Set the measurement interval as follows:
 - 1) For continuous transmissions, set to greater of $[10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ or 1 ms.
 - 2) For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement interval to a time that is less than or equal to the burst duration.
 - 3) If there are several carriers in a single antenna port, the peak power shall be determined for each individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
- d. Record the maximum PAPR level associated with a probability of 0.1 %.
- e. The peak power level is calculated from the sum of the PAPR value from step d) to the measured average power.



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5.3 Test Results

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

- LTE

Band	Mode	Frequency (MHz)	PAR (dB)
2 (1.4 MHz)	QPSK	1 850.7	4.87
		1 880.0	4.93
		1 909.3	4.84
2 (3 MHz)	QPSK	1 851.5	4.72
		1 880.0	4.93
		1 908.5	4.70
2 (5 MHz)	QPSK	1 852.5	4.78
		1 880.0	4.90
		1 907.5	4.70
2 (10 MHz)	QPSK	1 855.0	4.87
		1 880.0	4.90
		1 905.0	4.78
2 (15 MHz)	QPSK	1 857.5	4.87
		1 880.0	5.10
		1 902.5	5.13
2 (20 MHz)	QPSK	1 860.0	4.55
		1 880.0	4.84
		1 900.0	4.99

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Band	Mode	Frequency (MHz)	PAR (dB)
4 (1.4 MHz)	QPSK	1 710.7	4.93
		1 732.5	4.84
		1 754.3	4.55
4 (3 MHz)	QPSK	1 711.5	4.87
		1 732.5	4.78
		1 753.5	4.46
4 (5 MHz)	QPSK	1 712.5	4.84
		1 732.5	4.78
		1 752.5	4.55
4 (10 MHz)	QPSK	1 715.0	4.78
		1 732.5	4.72
		1 750.0	4.55
4 (15 MHz)	QPSK	1 717.5	5.10
		1 732.5	4.93
		1 747.5	4.78
4 (20 MHz)	QPSK	1 720.0	4.90
		1 732.5	4.70
		1 745.0	4.52

Band	Mode	Frequency (MHz)	PAR (dB)
5 (1.4 MHz)	QPSK	824.7	5.25
		836.5	4.81
		848.3	4.90
5 (3 MHz)	QPSK	825.5	4.99
		836.5	4.75
		847.5	4.75
5 (5 MHz)	QPSK	826.5	4.96
		836.5	4.75
		846.5	4.81
5 (10 MHz)	QPSK	829.0	4.81
		836.5	4.72
		844.0	4.78

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Band	Mode	Frequency (MHz)	PAR (dB)
7 (5 MHz)	QPSK	2 502.5	4.49
		2 535.0	4.67
		2 567.5	4.61
7 (10 MHz)	QPSK	2 505.0	4.52
		2 535.0	4.70
		2 565.0	4.43
7 (15 MHz)	QPSK	2 507.5	4.81
		2 535.0	4.93
		2 562.5	4.70
7 (20 MHz)	QPSK	2 510.0	4.67
		2 535.0	4.64
		2 560.0	4.46

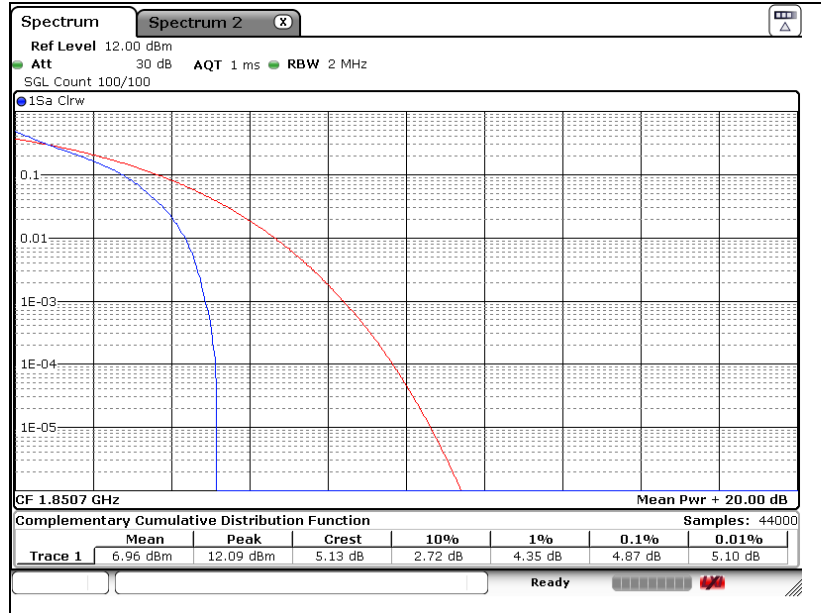
Band	Mode	Frequency (MHz)	PAR (dB)
12 (1.4 MHz)	QPSK	699.7	5.19
		707.5	5.10
		715.3	4.84
12 (3 MHz)	QPSK	700.5	5.10
		707.5	4.99
		714.5	4.84
12 (5 MHz)	QPSK	701.5	5.10
		707.5	4.96
		713.5	4.87
12 (10 MHz)	QPSK	704.0	5.13
		707.5	4.93
		711.0	4.81

Band	Mode	Frequency (MHz)	PAR (dB)
17 (5 MHz)	QPSK	706.5	4.96
		710.0	4.87
		713.5	4.75
17 (10 MHz)	QPSK	709.0	4.87
		710.0	4.81
		711.0	4.81

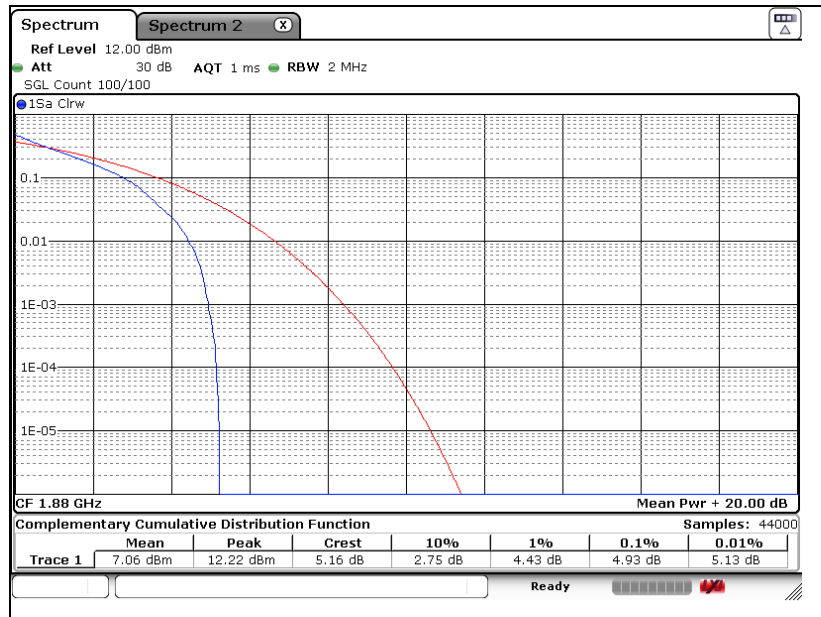
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LTE band 2 (1.4 MHz - QPSK)

Low Channel

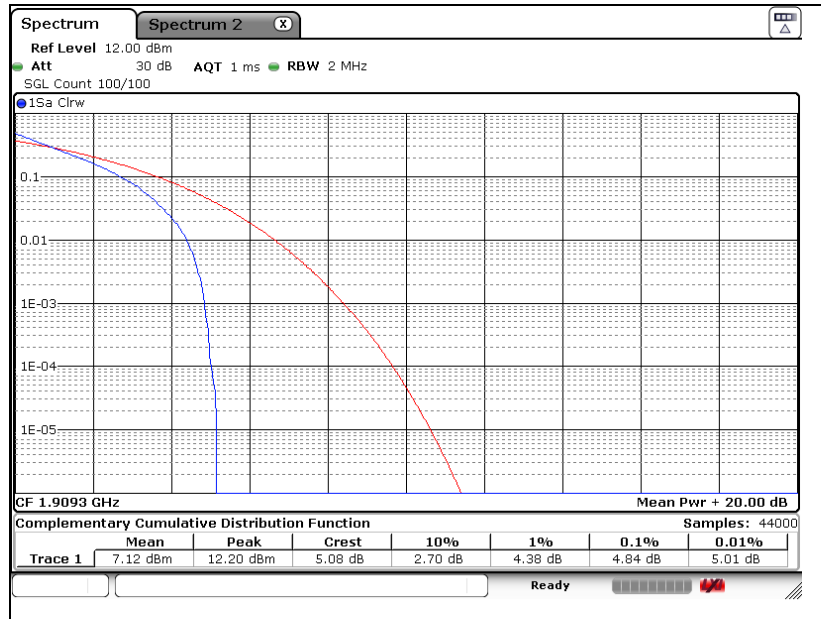


Middle Channel



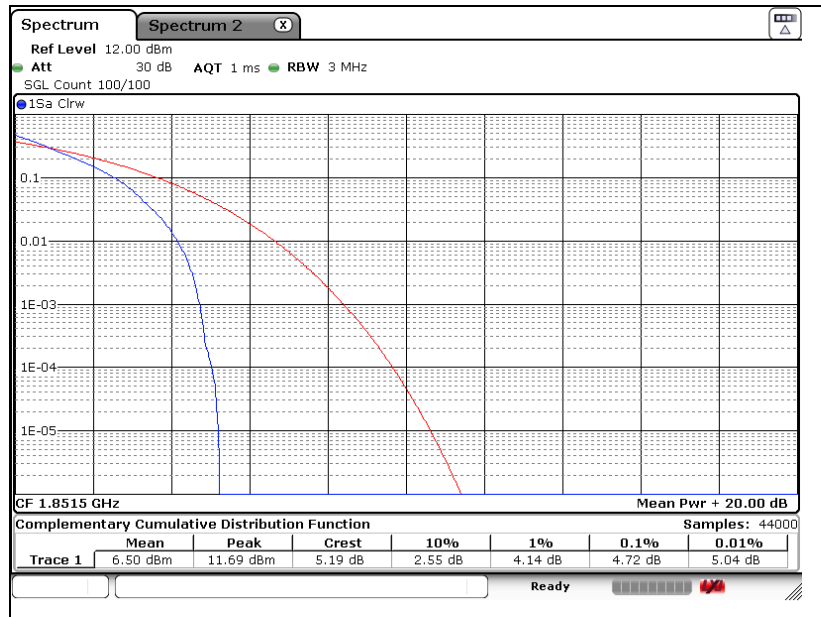
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High Channel



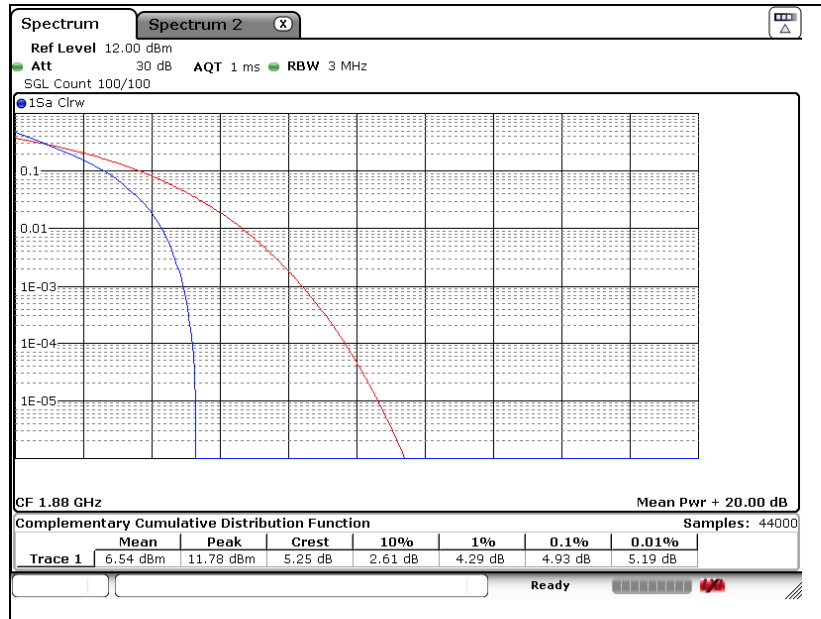
LTE band 2 (3 MHz - QPSK)

Low Channel

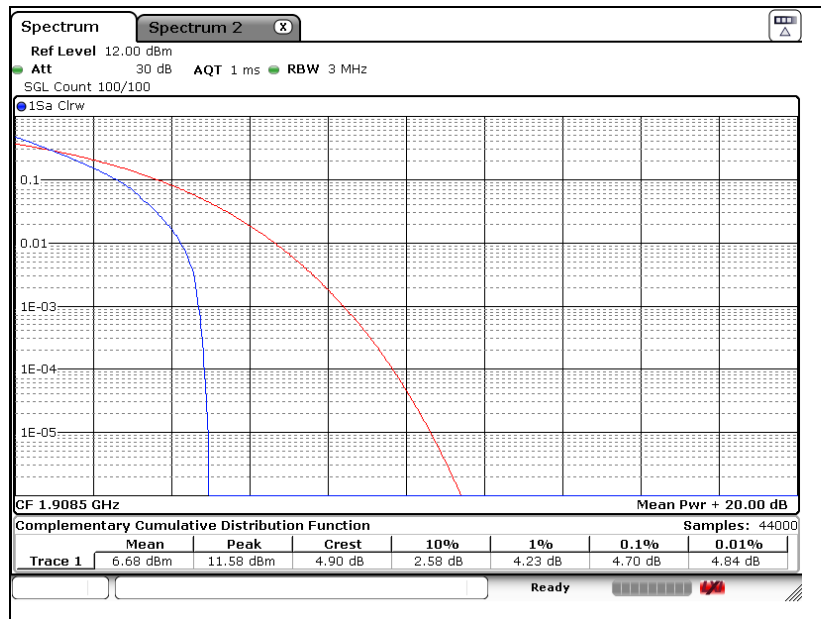


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Middle Channel



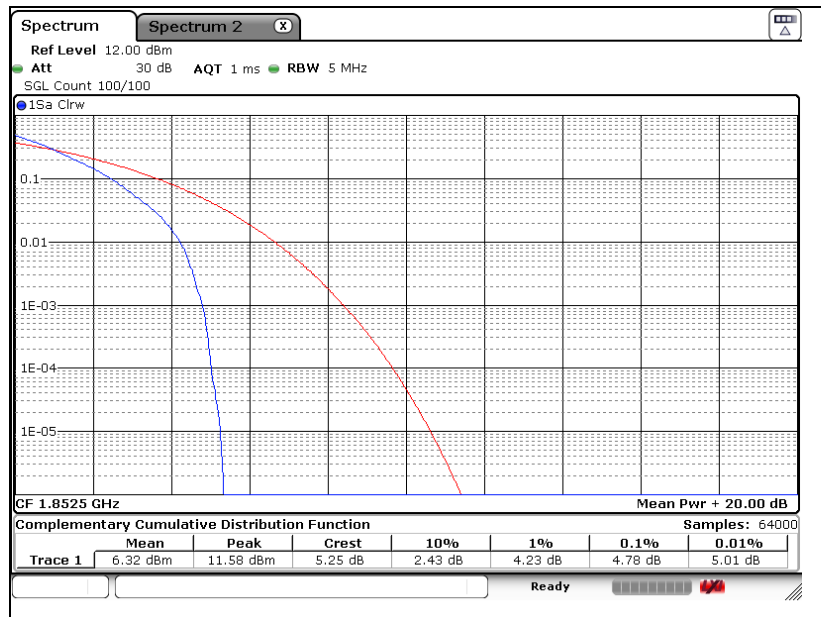
High Channel



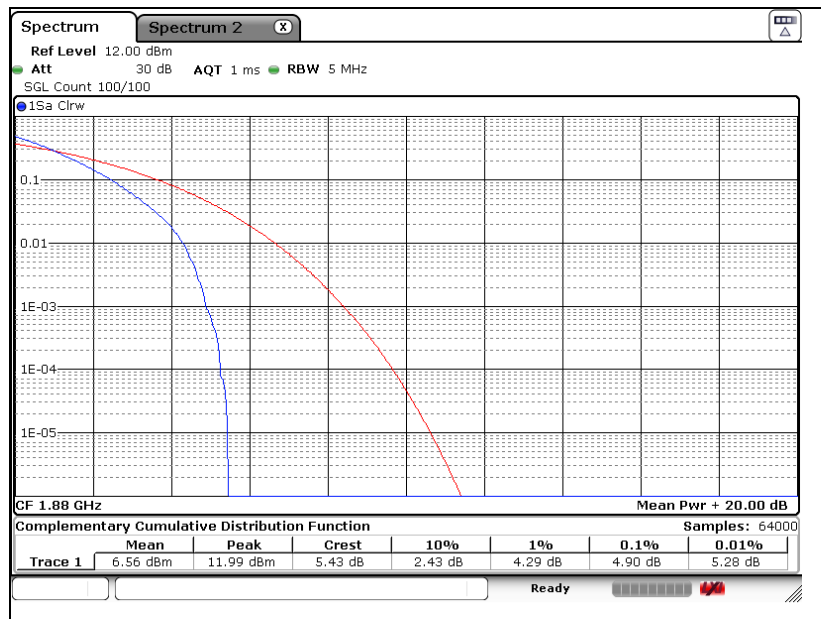
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LTE band 2 (5 MHz - QPSK)

Low Channel

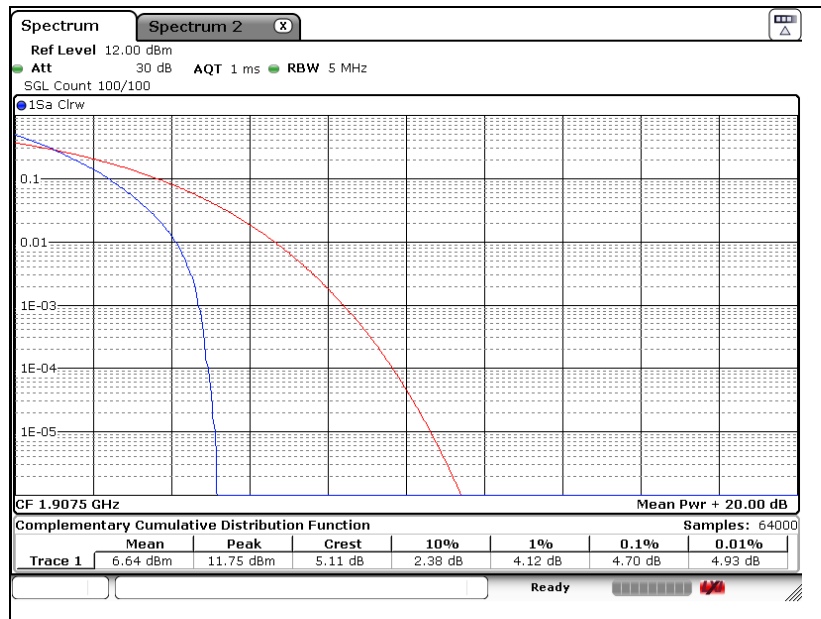


Middle Channel



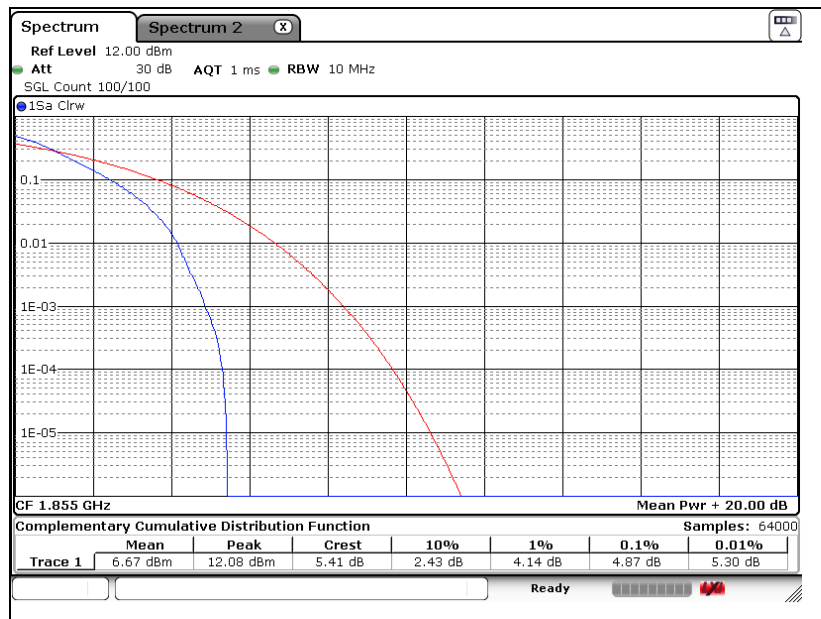
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High Channel



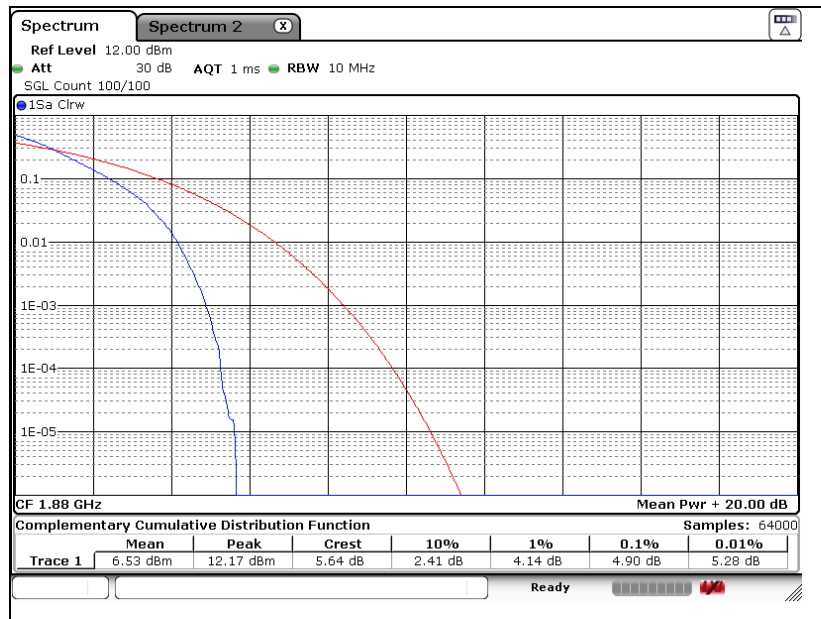
LTE band 2 (10 MHz - QPSK)

Low Channel

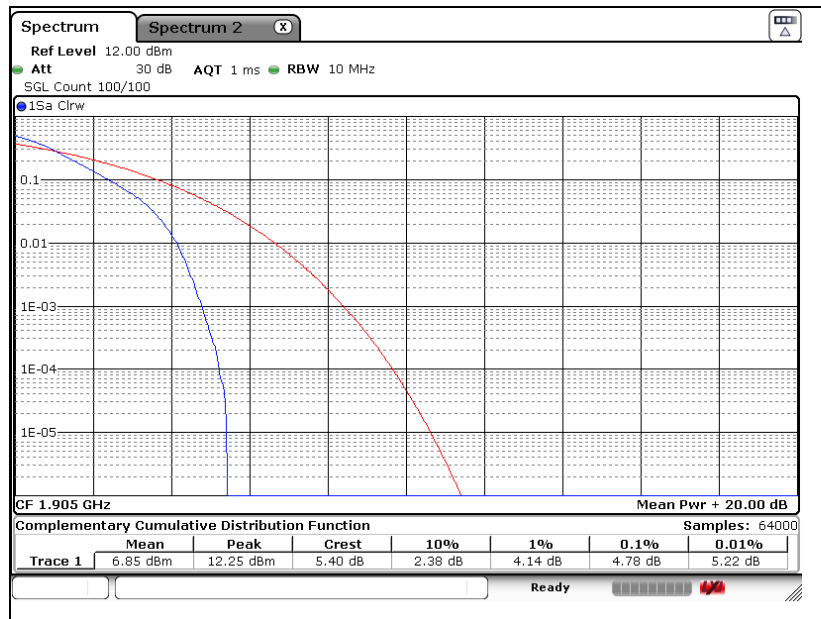


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Middle Channel



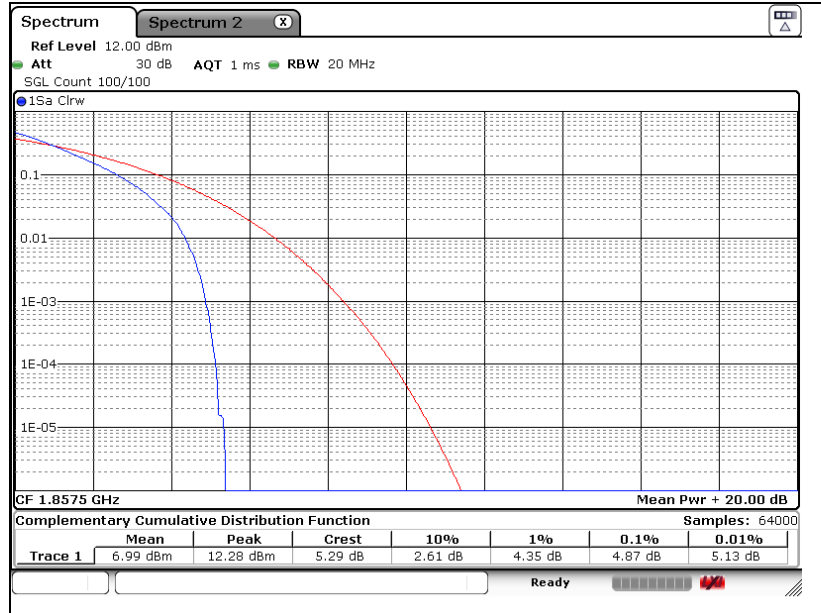
High Channel



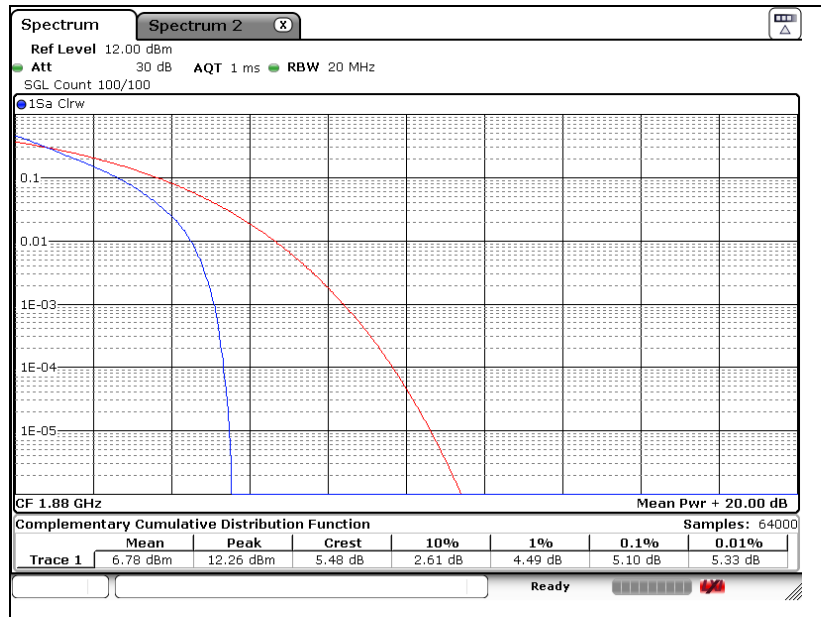
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LTE band 2 (15 MHz - QPSK)

Low Channel

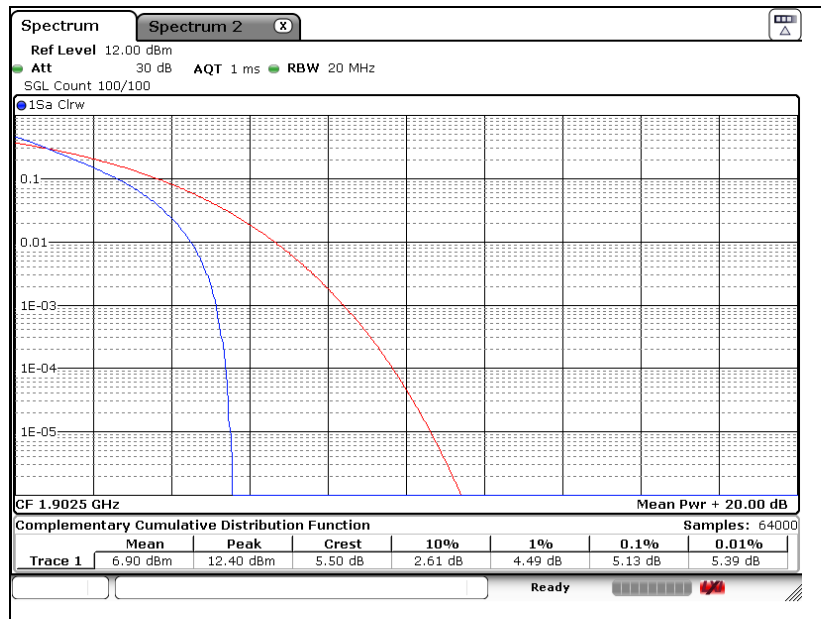


Middle Channel



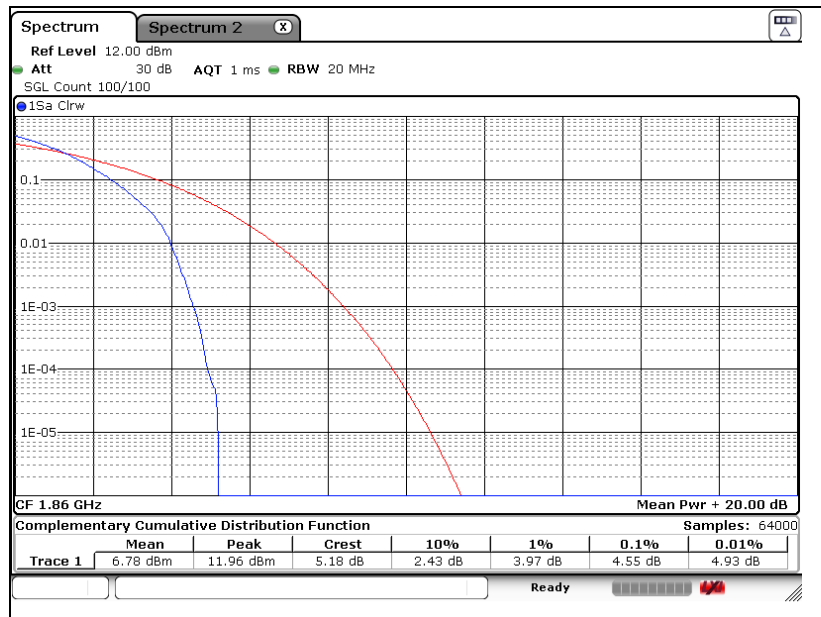
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High Channel



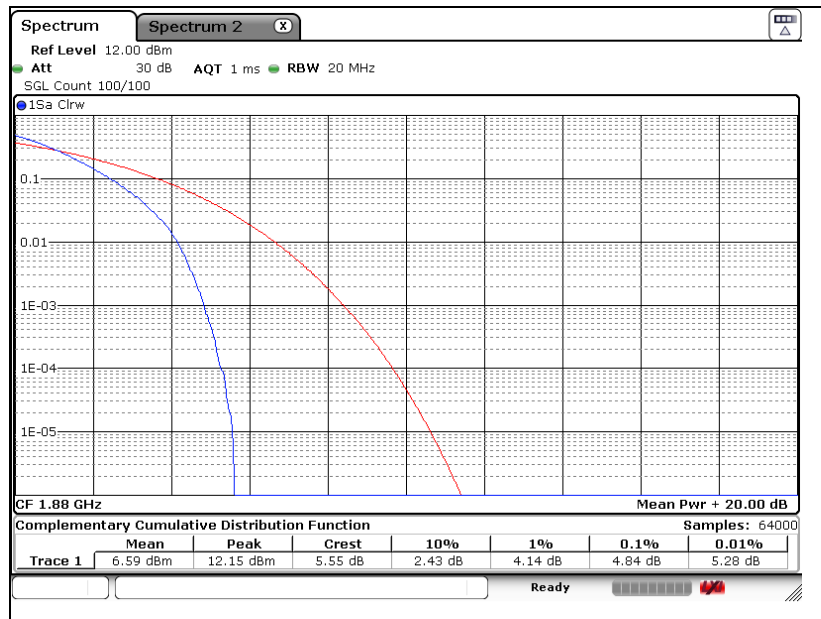
LTE band 2 (20 MHz - QPSK)

Low Channel

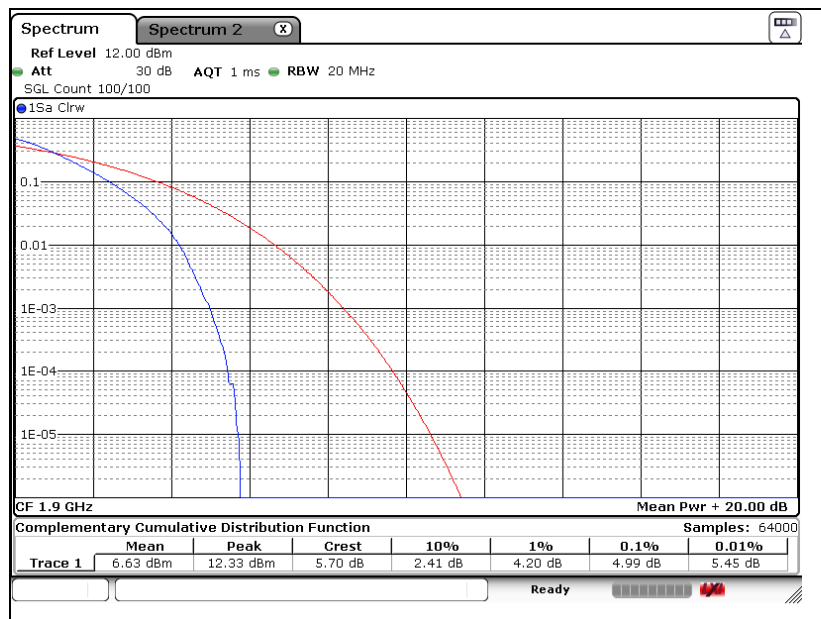


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Middle Channel



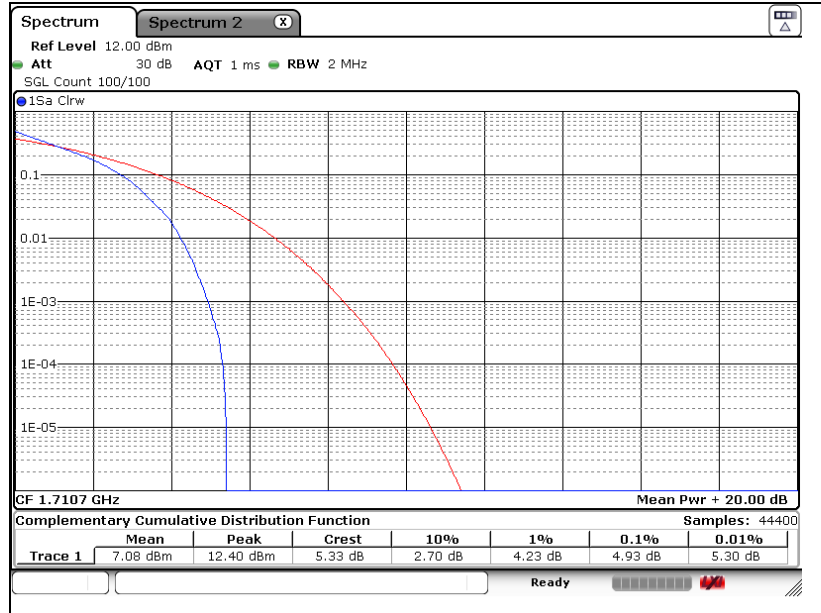
High Channel



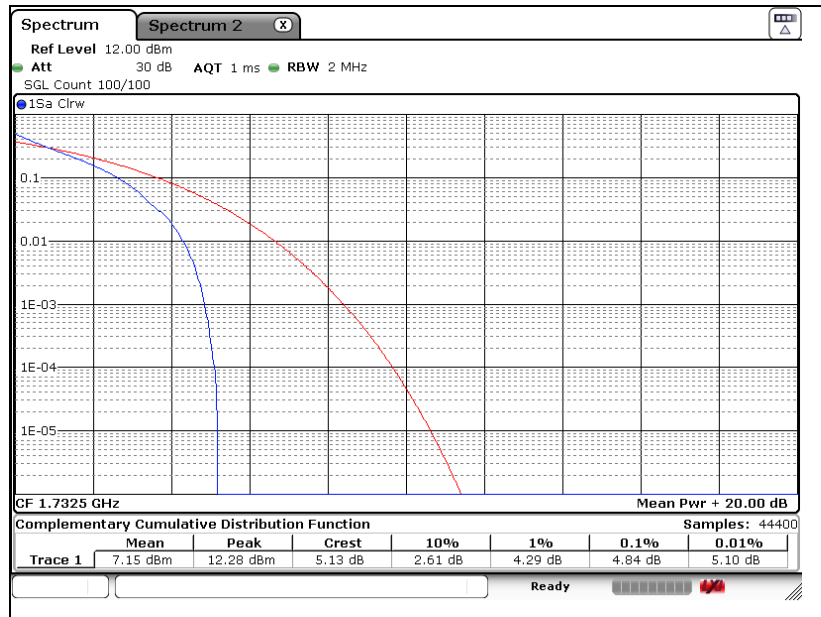
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LTE band 4 (1.4 MHz - QPSK)

Low Channel

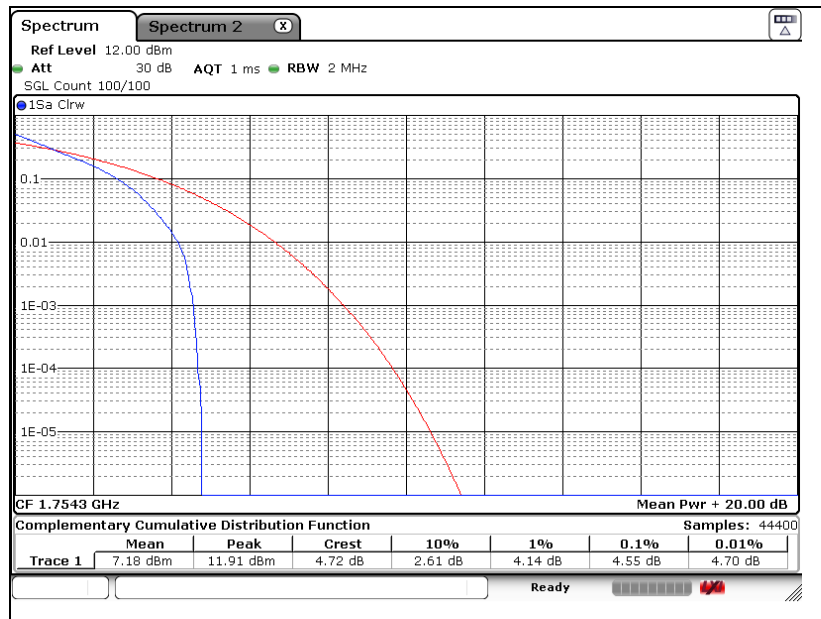


Middle Channel



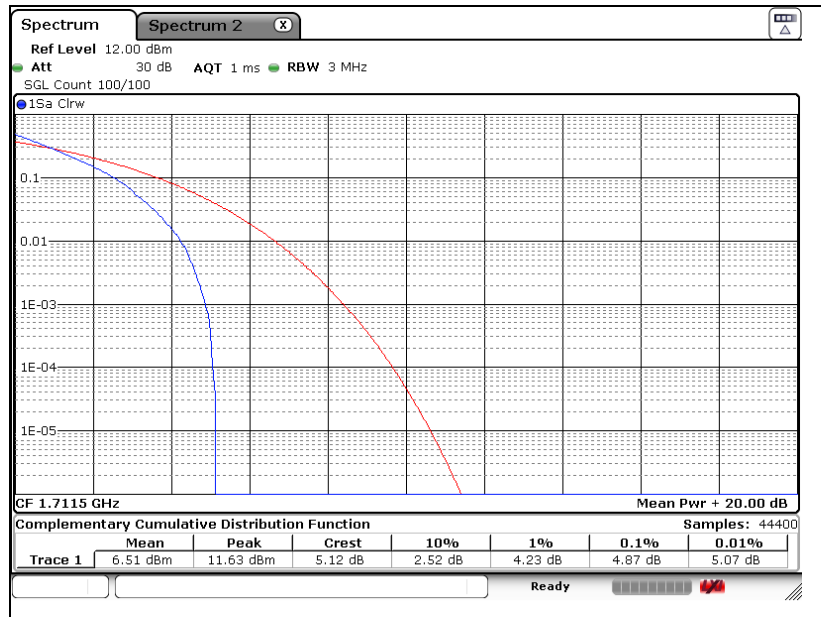
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High Channel



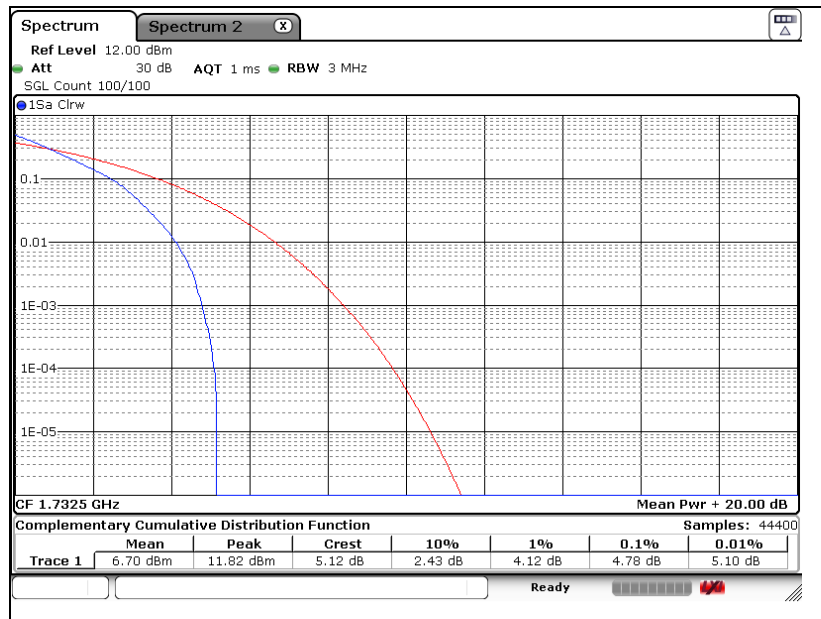
LTE band 4 (3 MHz - QPSK)

Low Channel

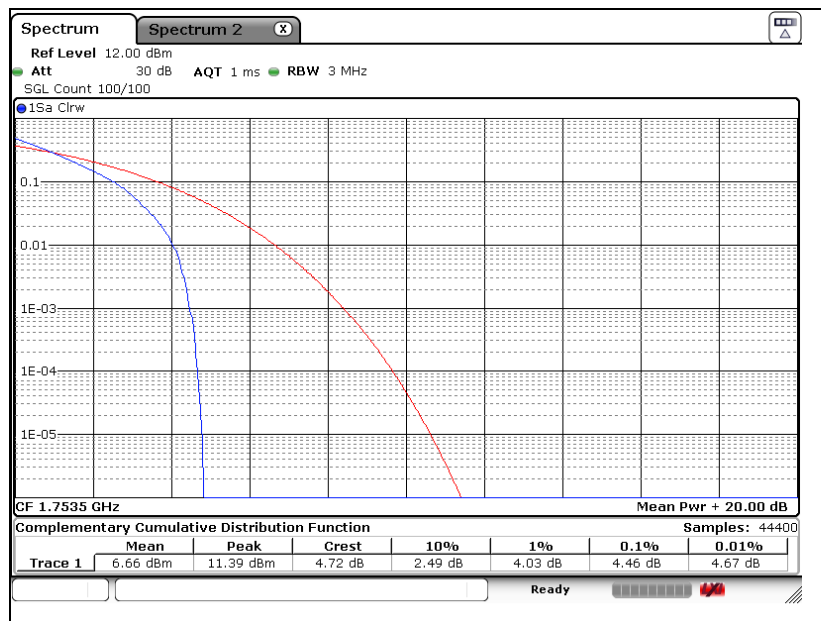


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Middle Channel



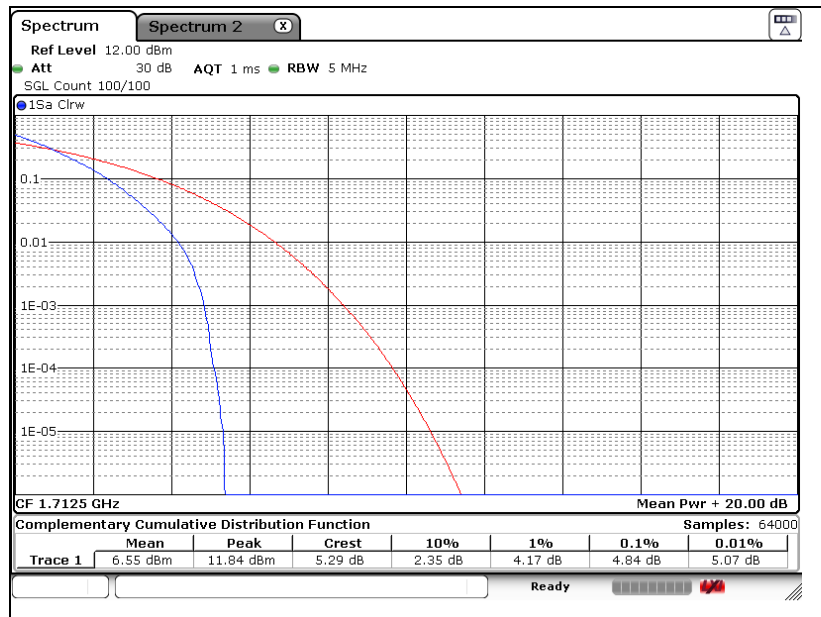
High Channel



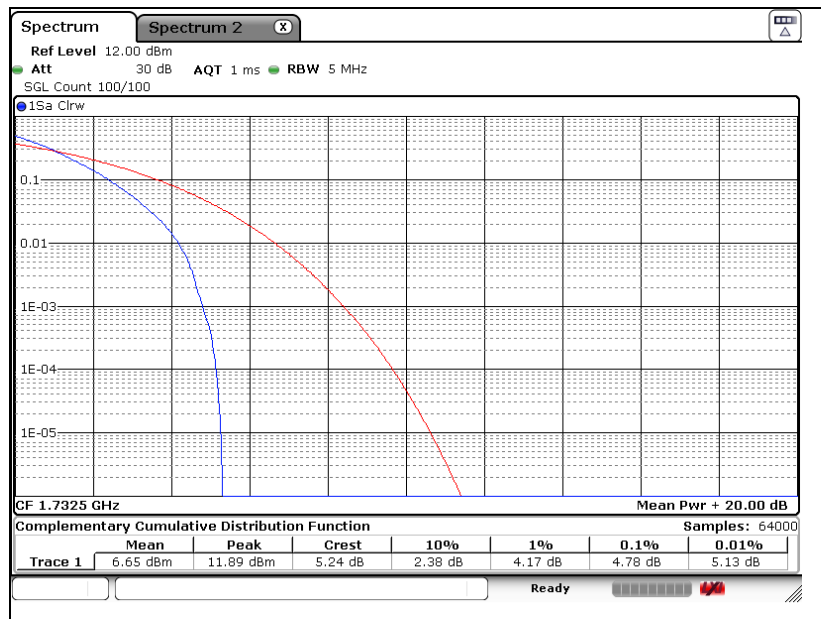
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LTE band 4 (5 MHz - QPSK)

Low Channel

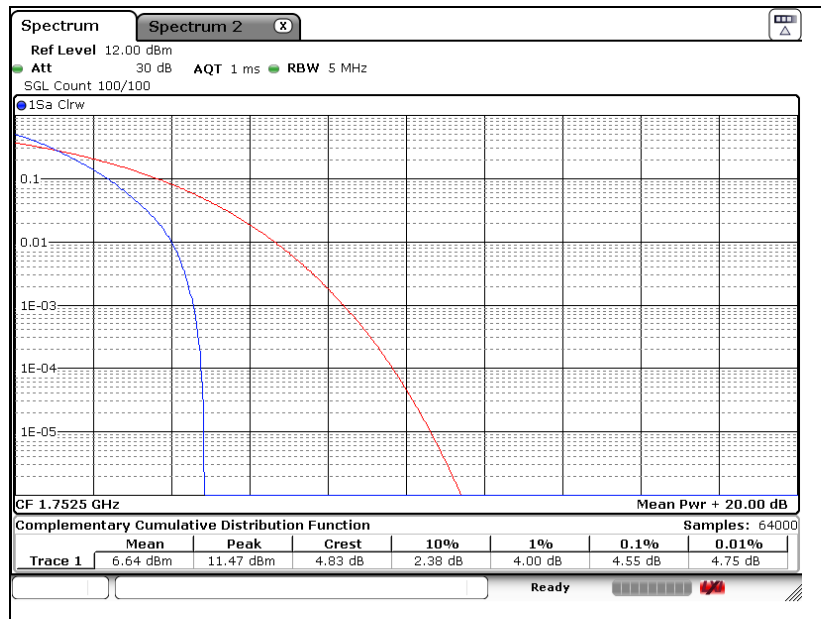


Middle Channel



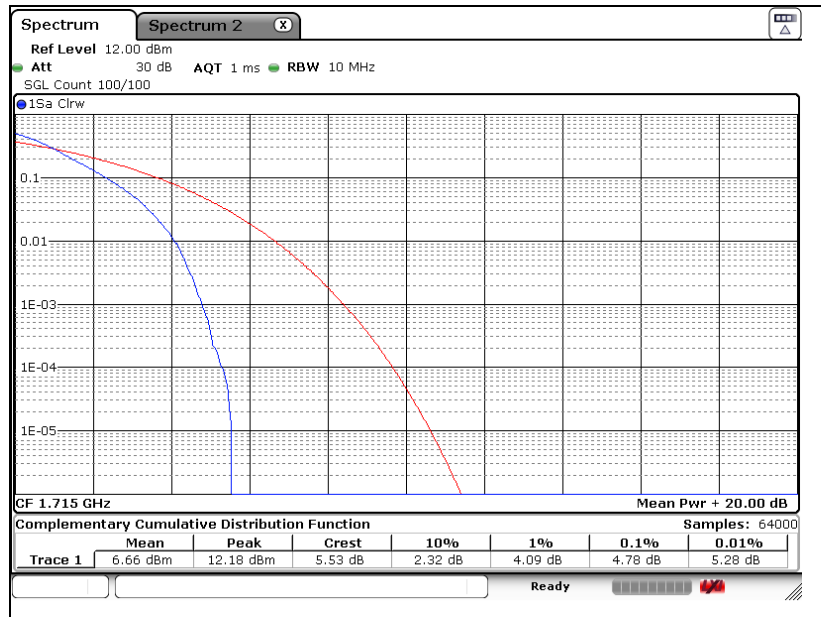
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High Channel



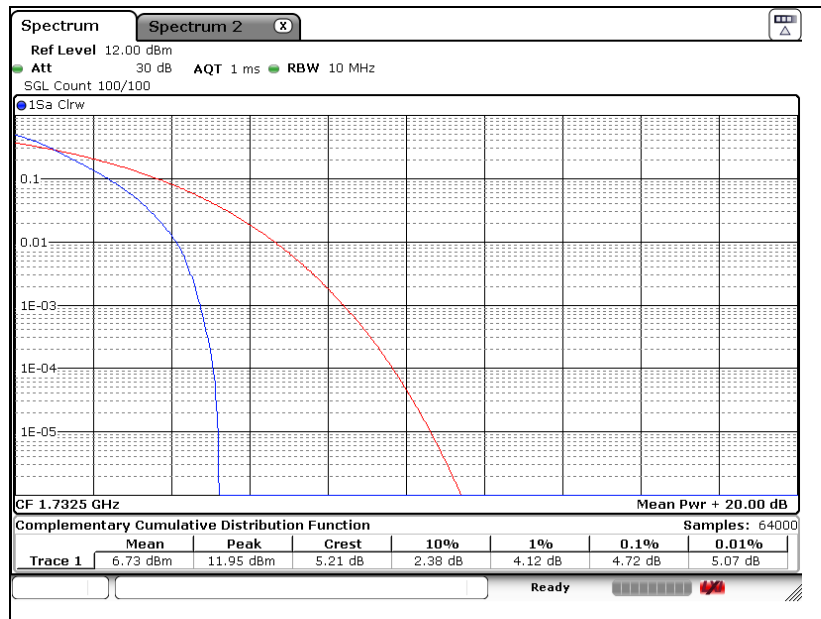
LTE band 4 (10 MHz - QPSK)

Low Channel

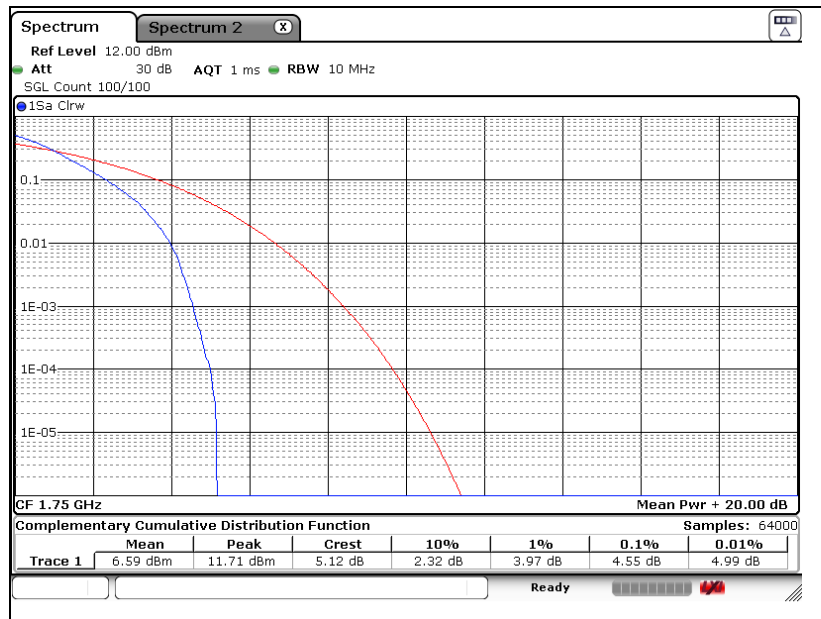


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Middle Channel



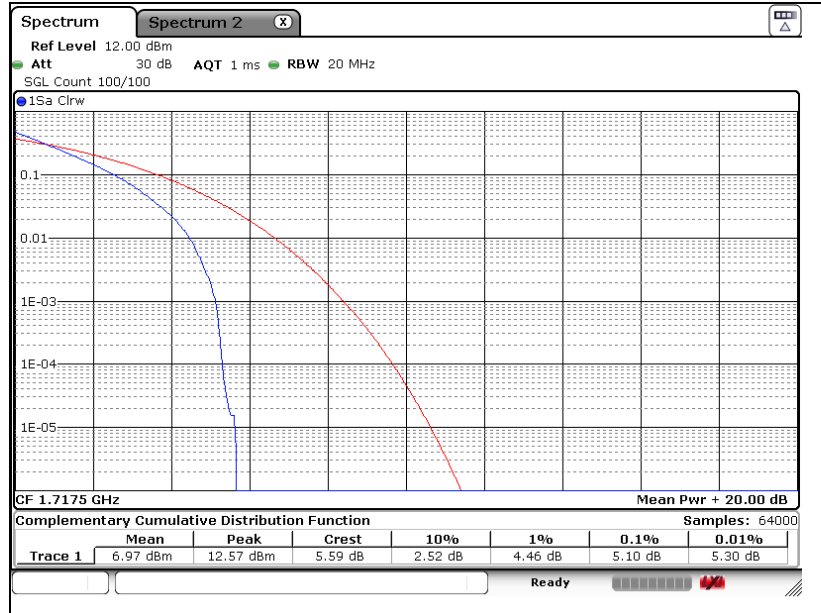
High Channel



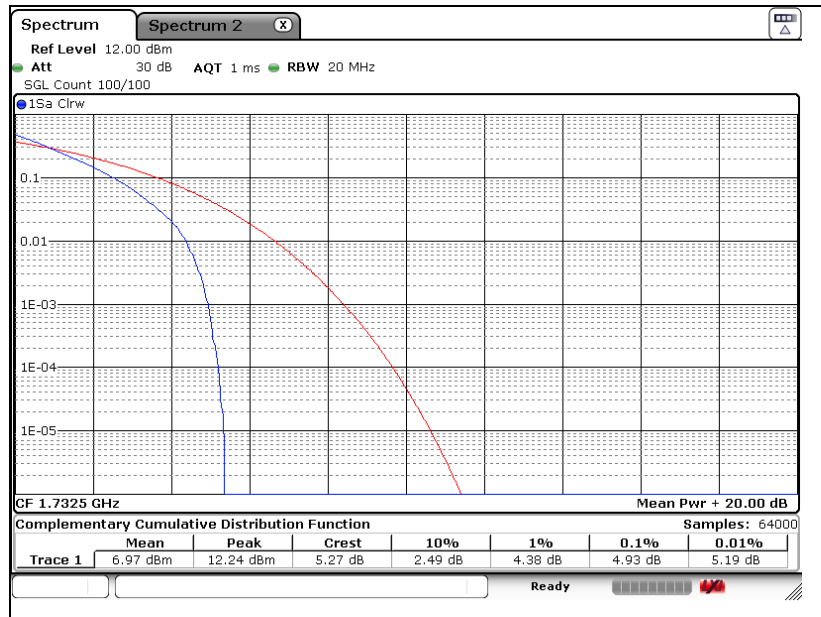
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LTE band 4 (15 MHz - QPSK)

Low Channel

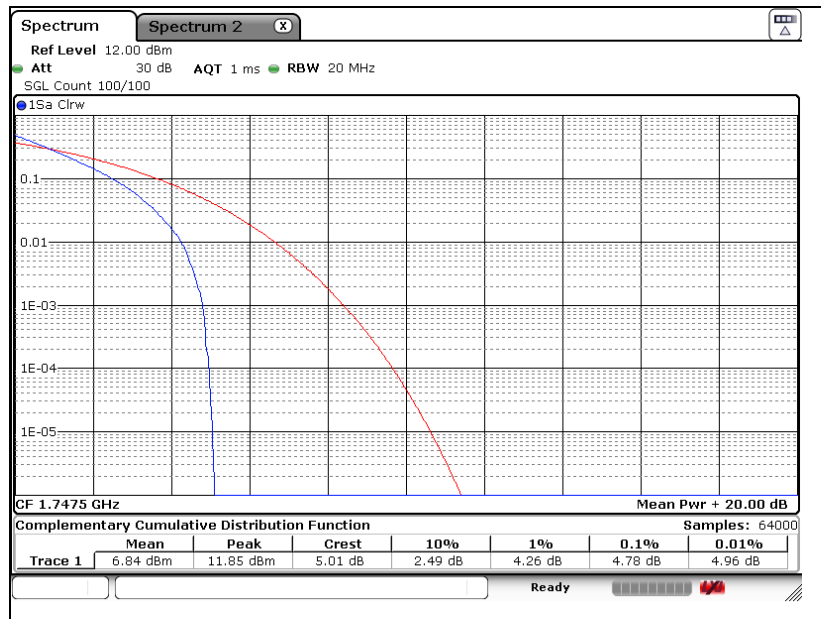


Middle Channel



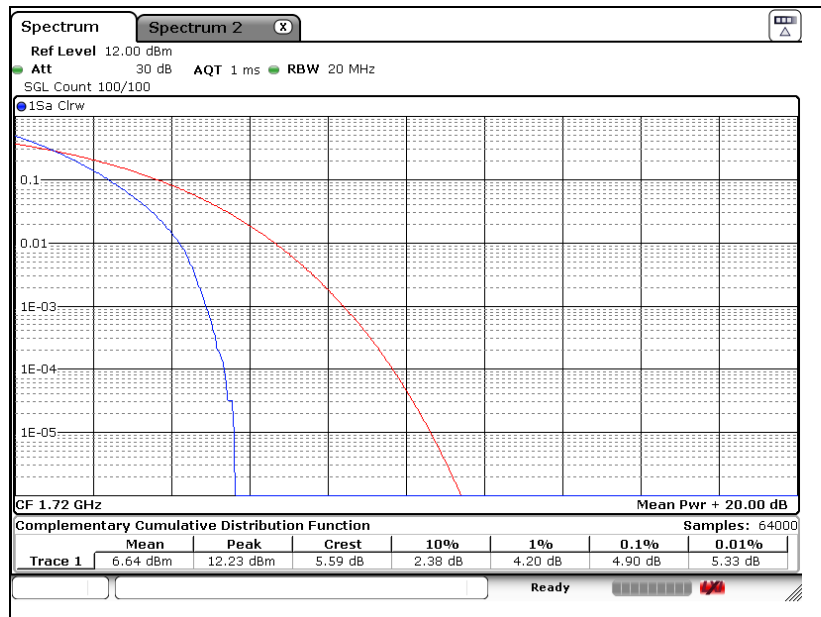
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High Channel



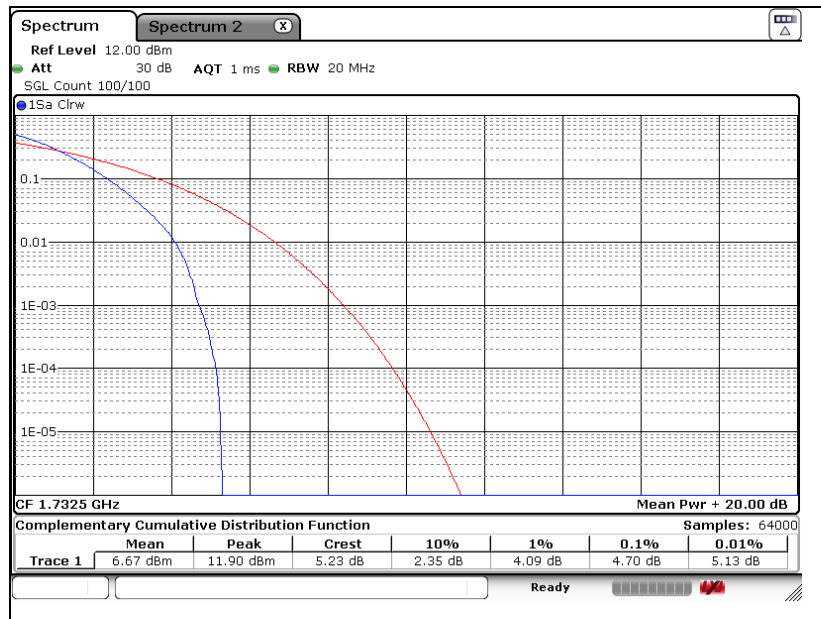
LTE band 4 (20 MHz - QPSK)

Low Channel

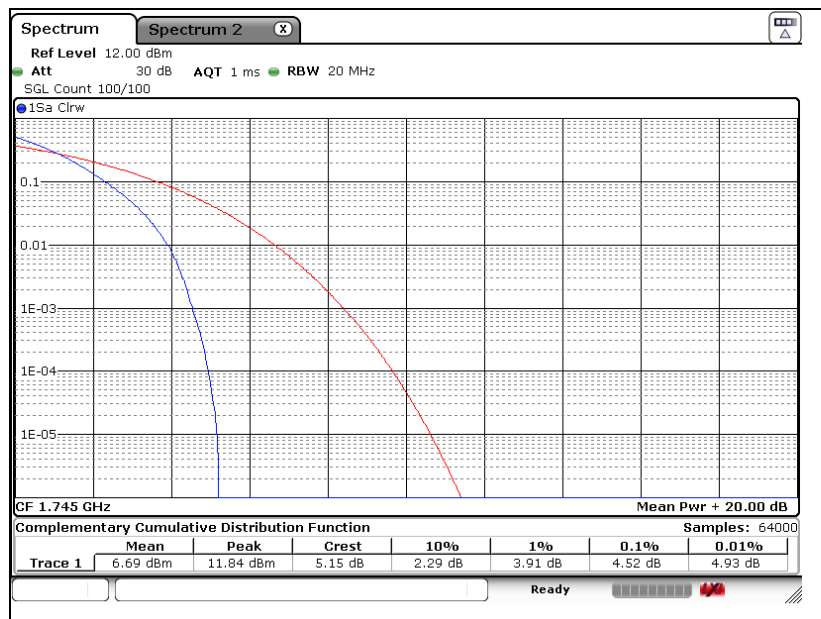


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Middle Channel



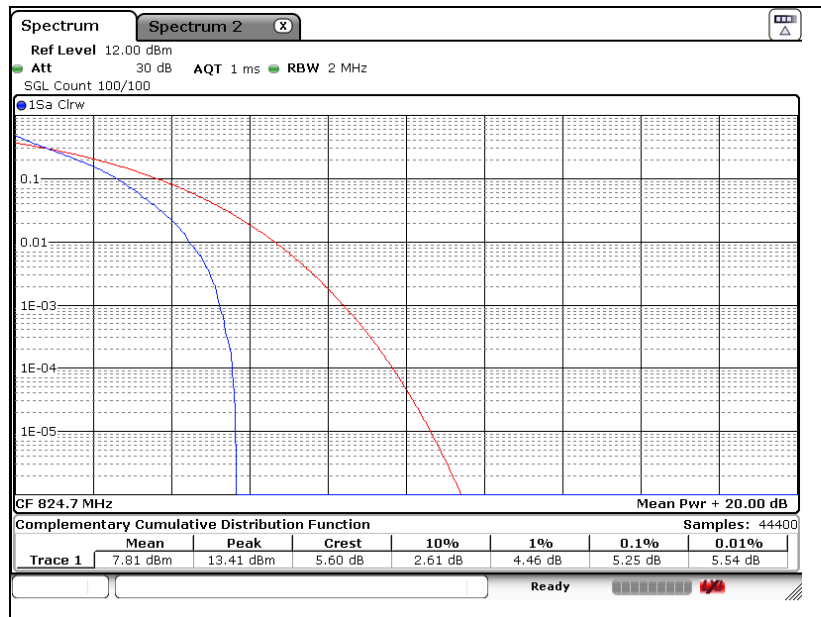
High Channel



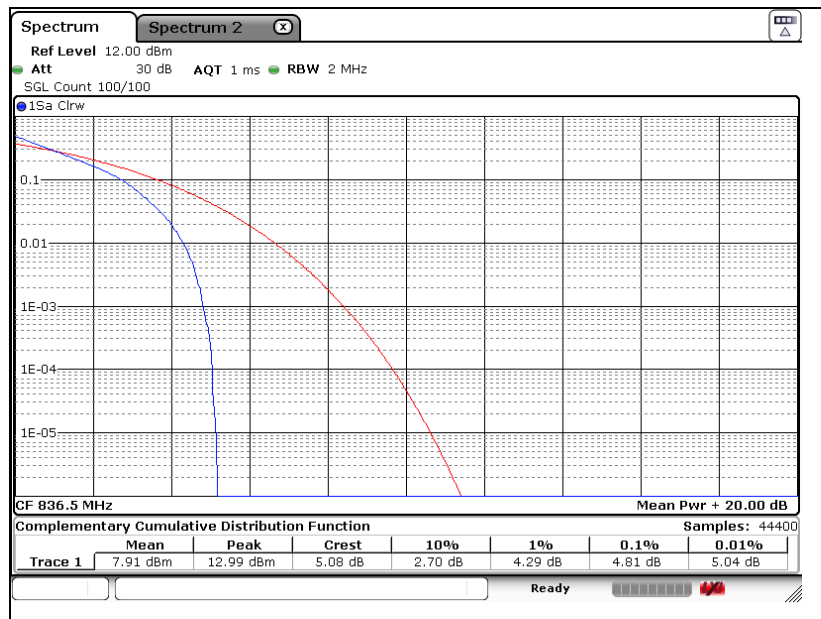
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LTE band 5 (1.4 MHz - QPSK)

Low Channel

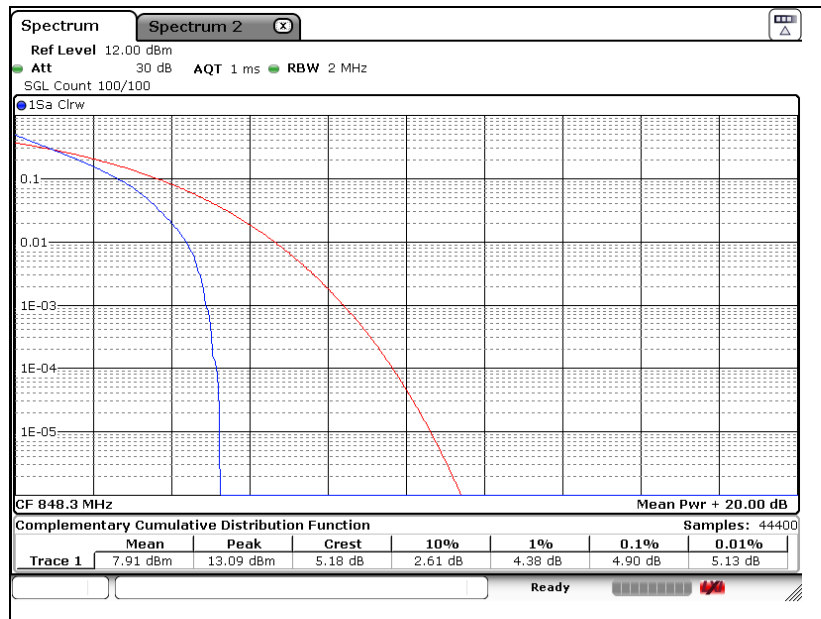


Middle Channel



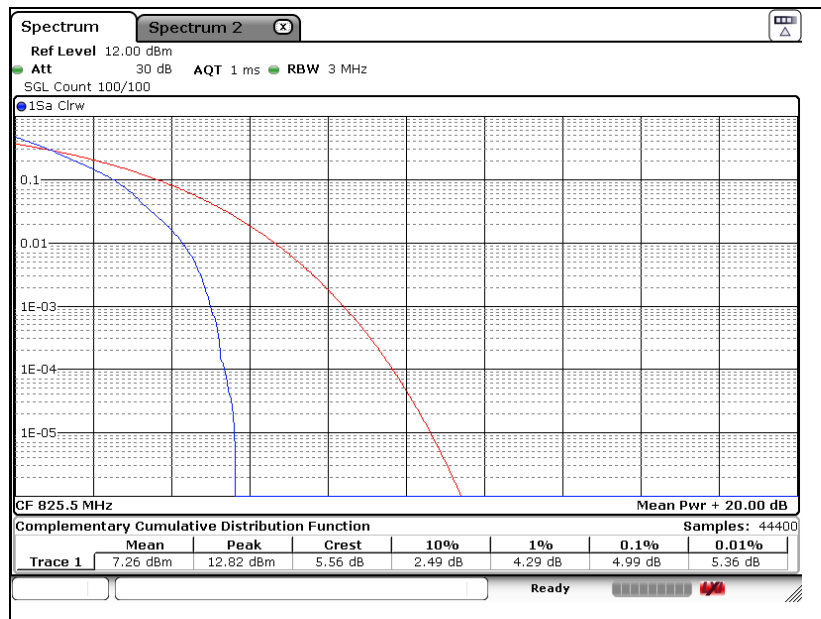
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High Channel



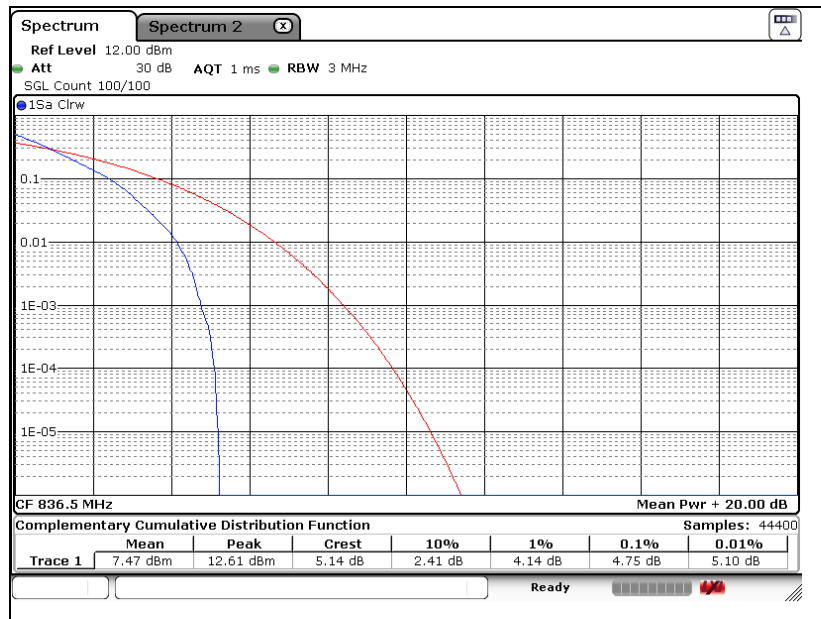
LTE band 5 (3 MHz - QPSK)

Low Channel

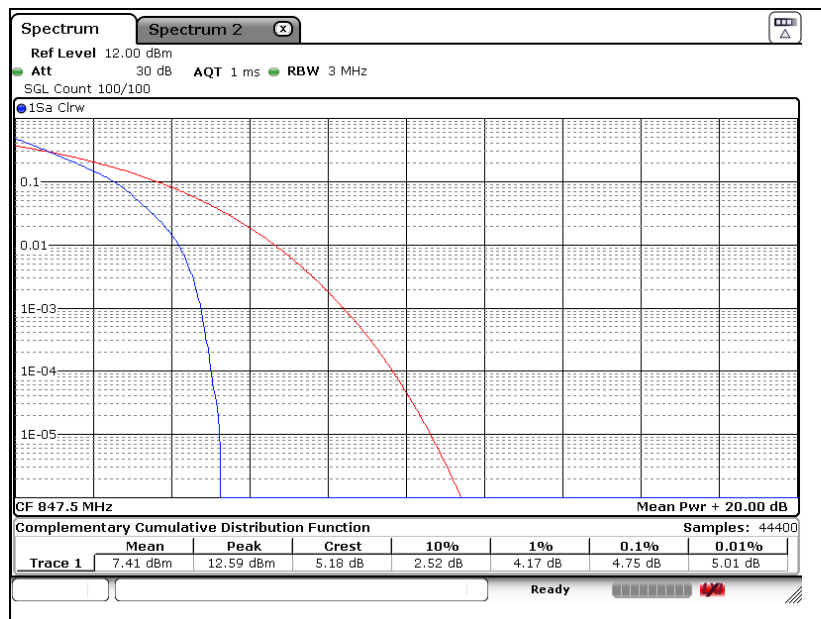


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Middle Channel



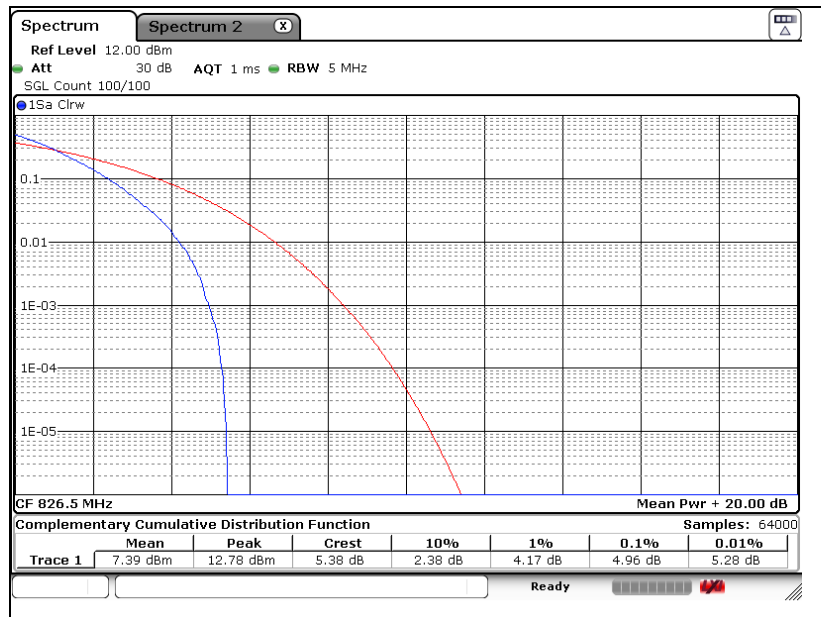
High Channel



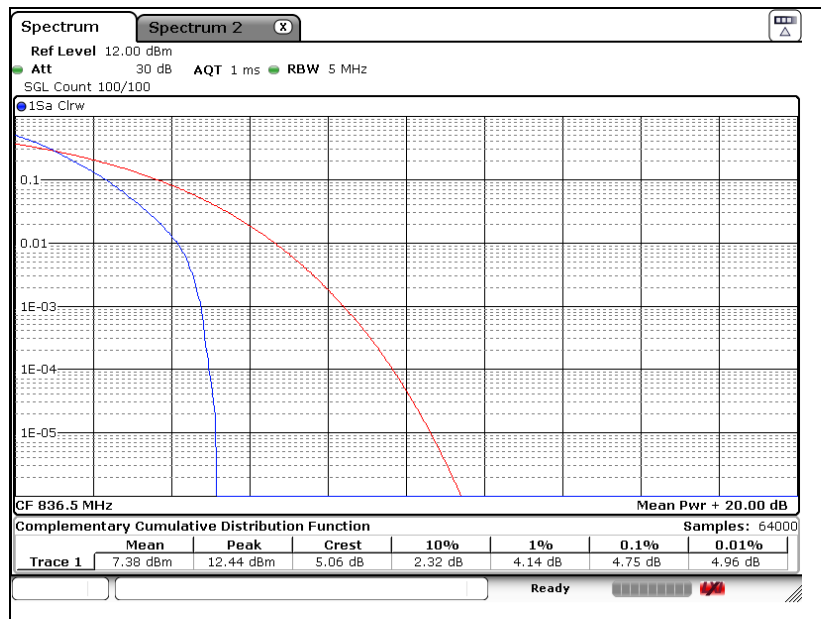
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LTE band 5 (5 MHz - QPSK)

Low Channel

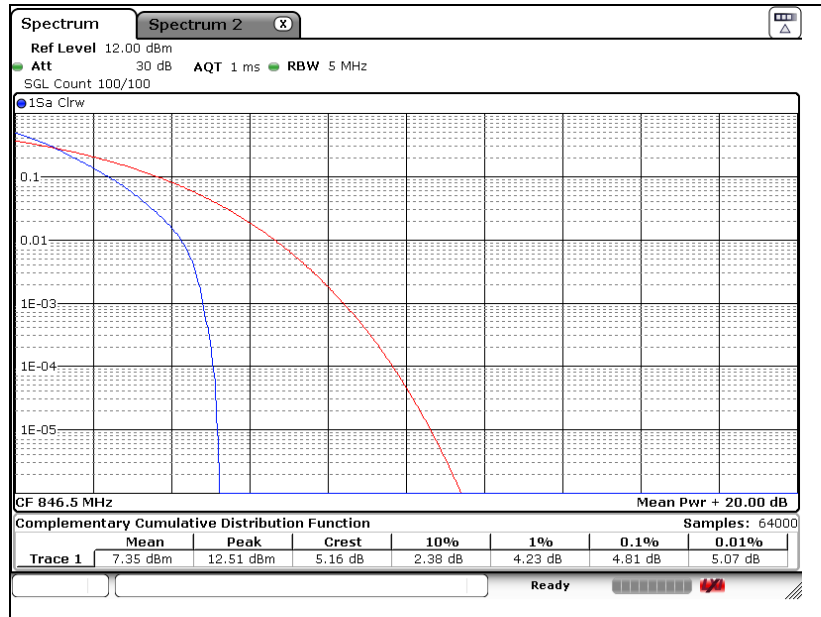


Middle Channel



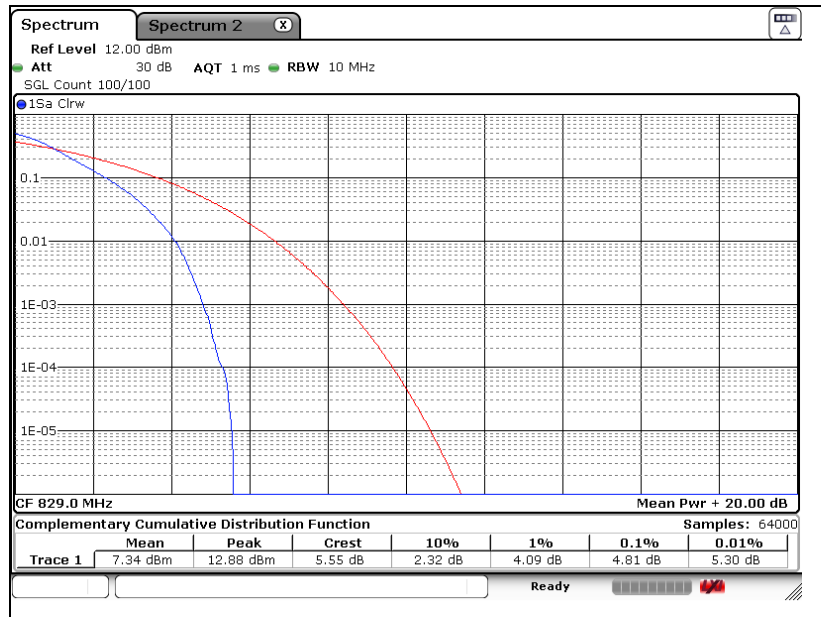
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High Channel



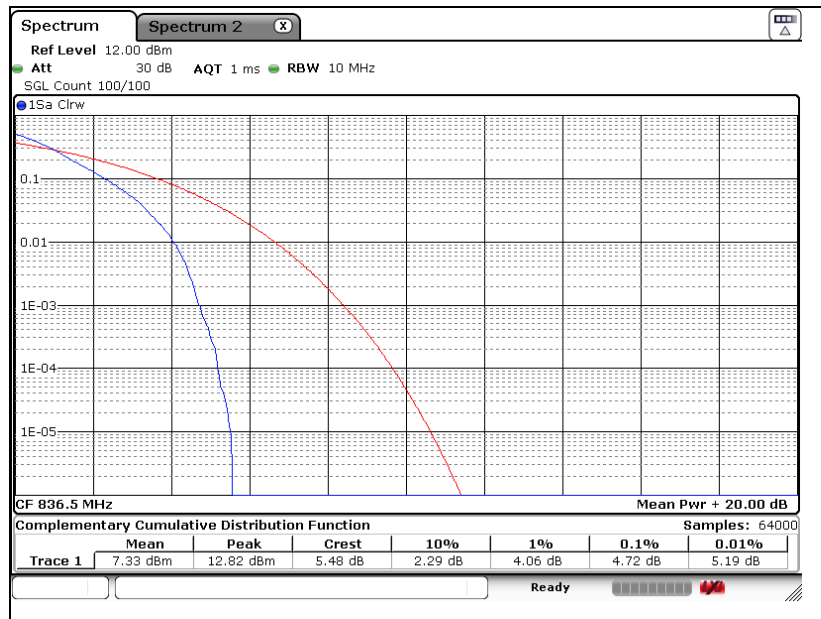
LTE band 5 (10 MHz - QPSK)

Low Channel

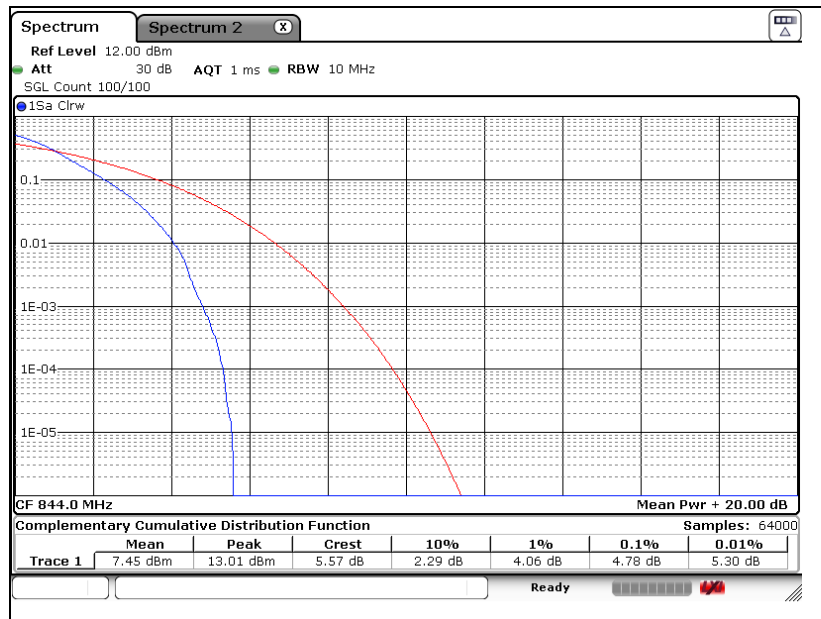


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Middle Channel



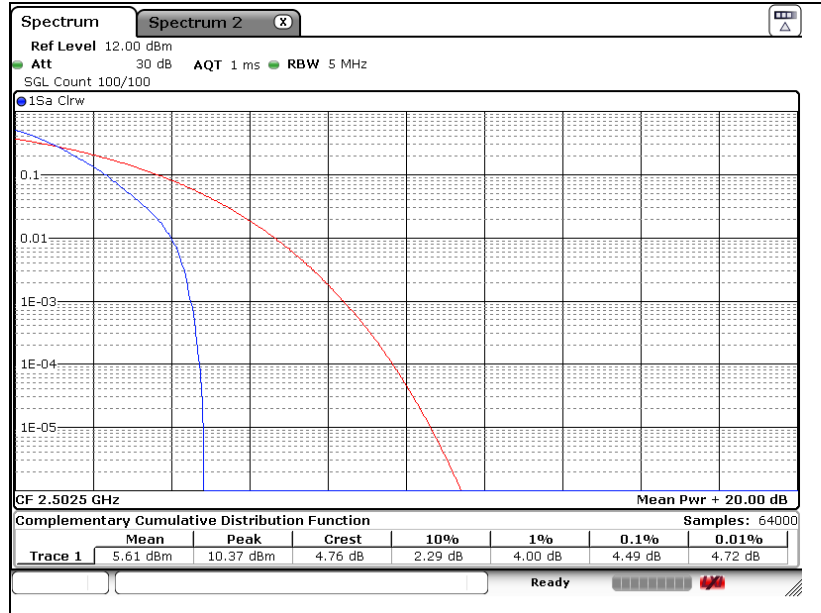
High Channel



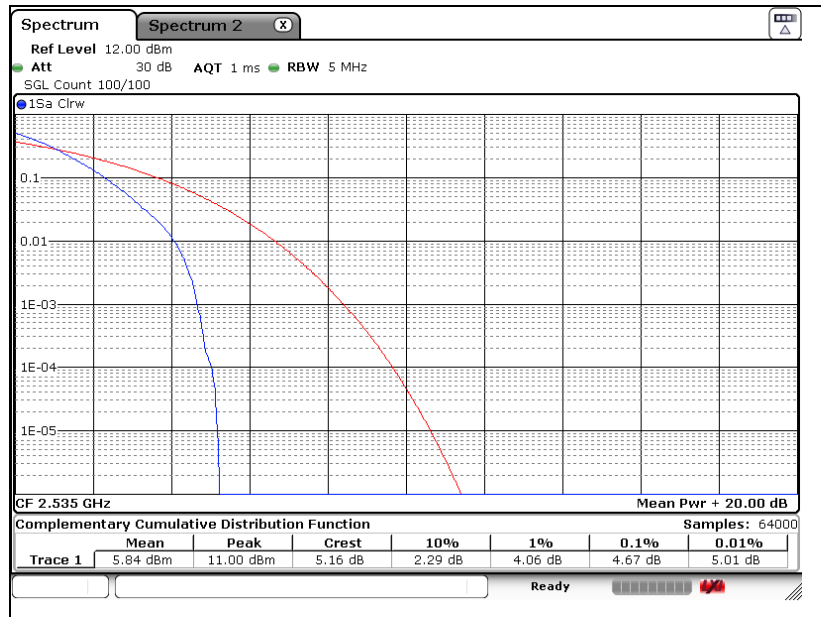
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 7 (5 MHz - QPSK)

Low Channel

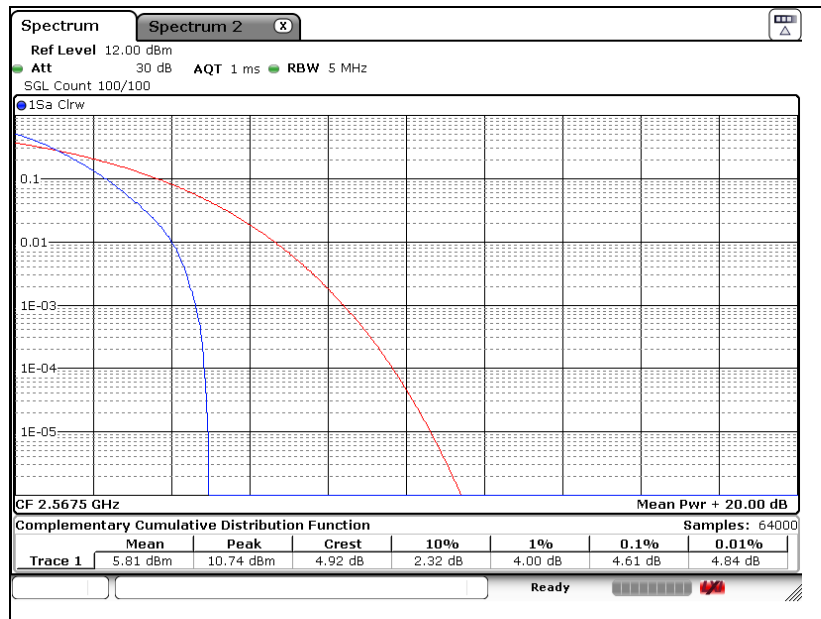


Middle Channel



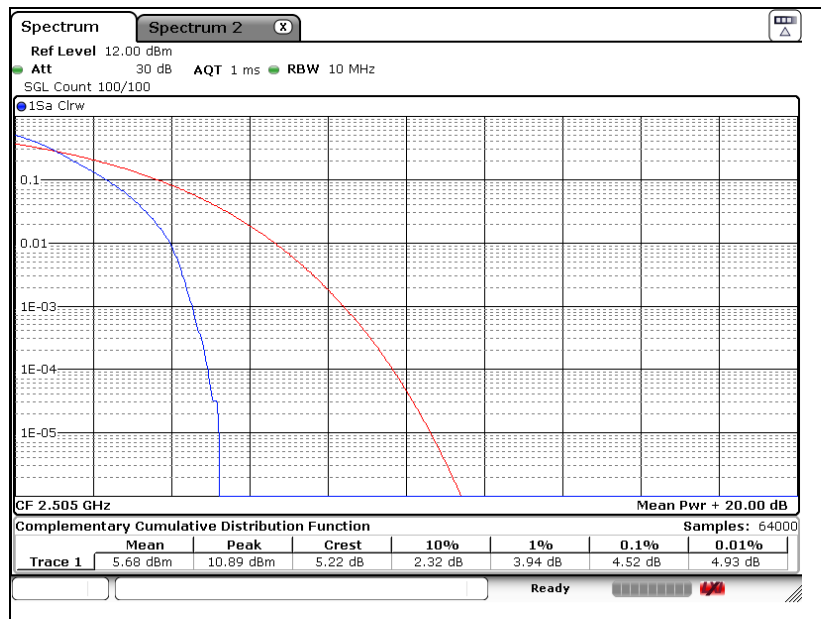
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

High Channel



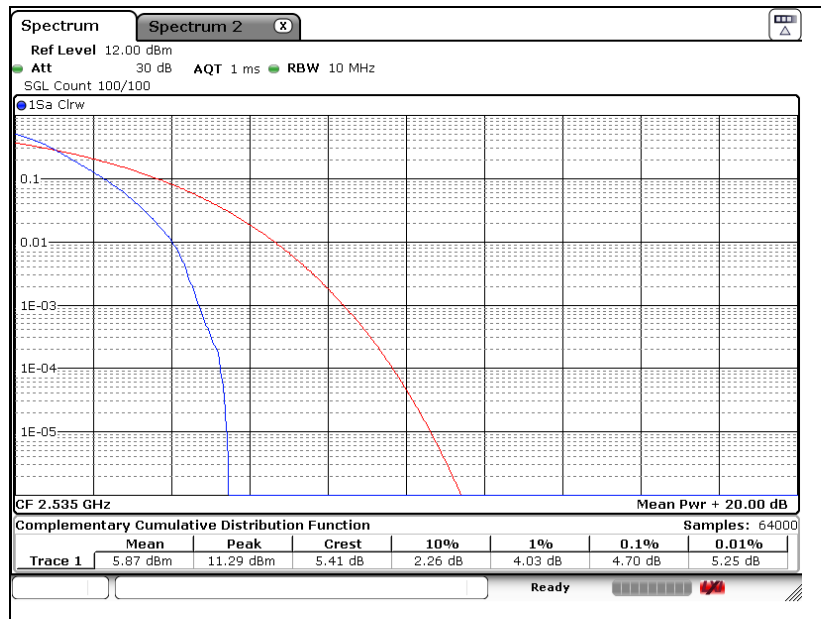
LTE band 7 (10 MHz - QPSK)

Low Channel

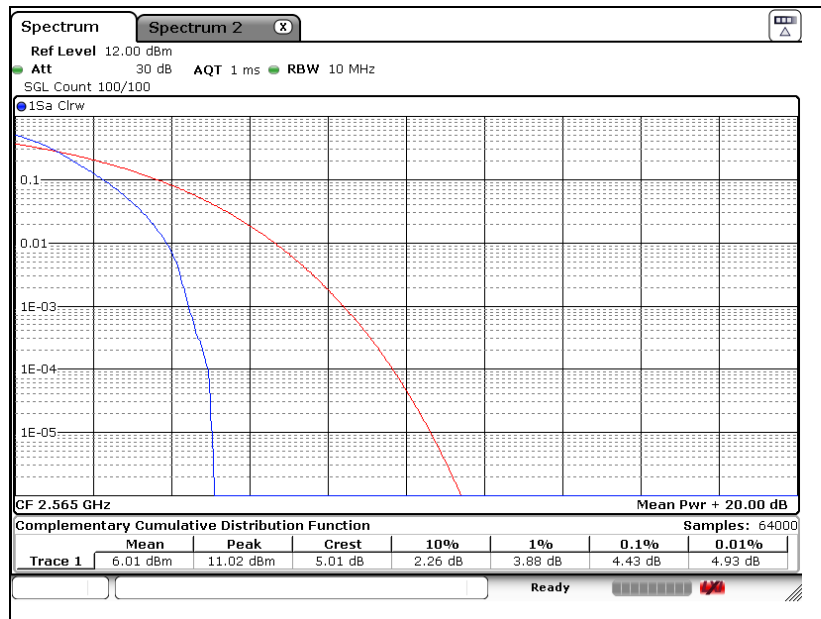


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Middle Channel



High Channel



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