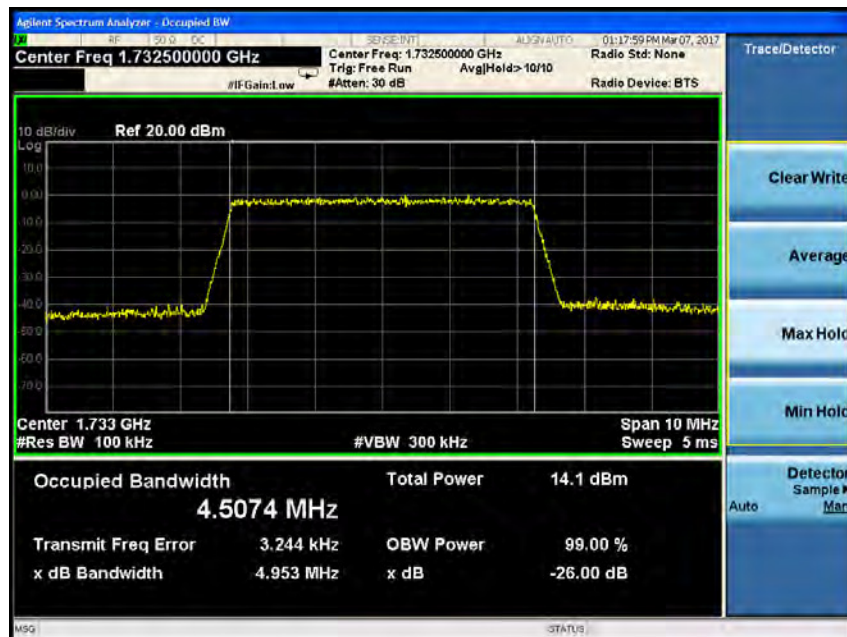


LTE band 4 (5 MHz - QPSK)

Low Channel

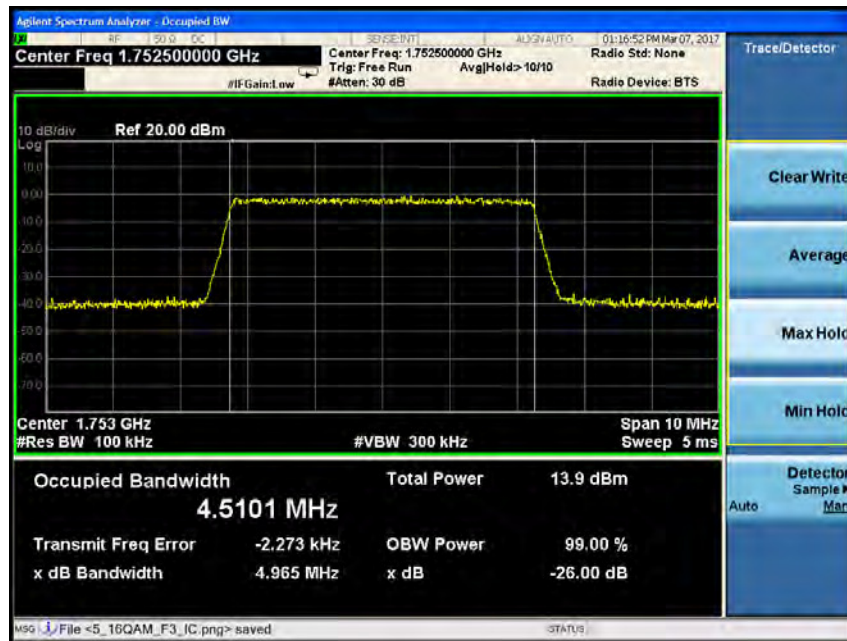


Middle Channel



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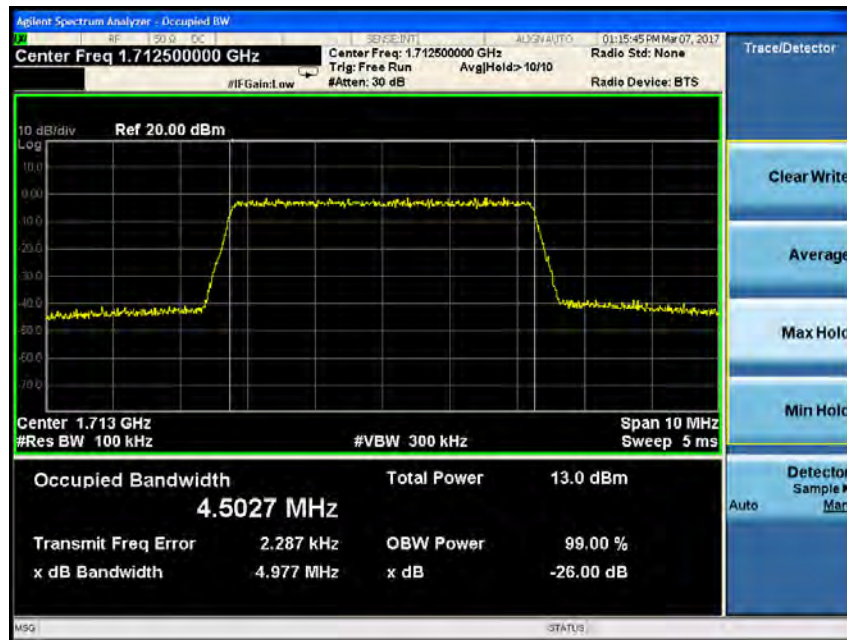
High Channel



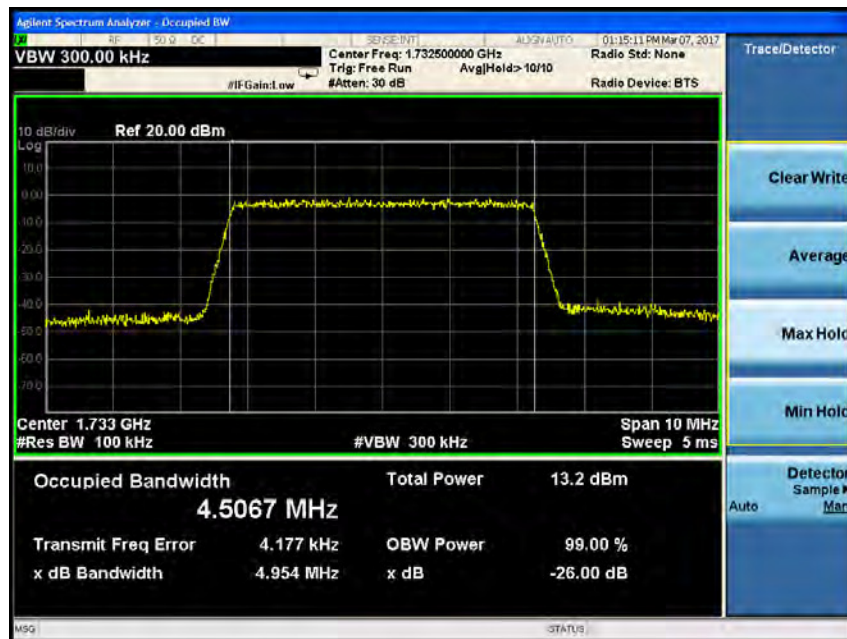
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LTE band 4 (5 MHz - 16QAM)

Low Channel



Middle Channel



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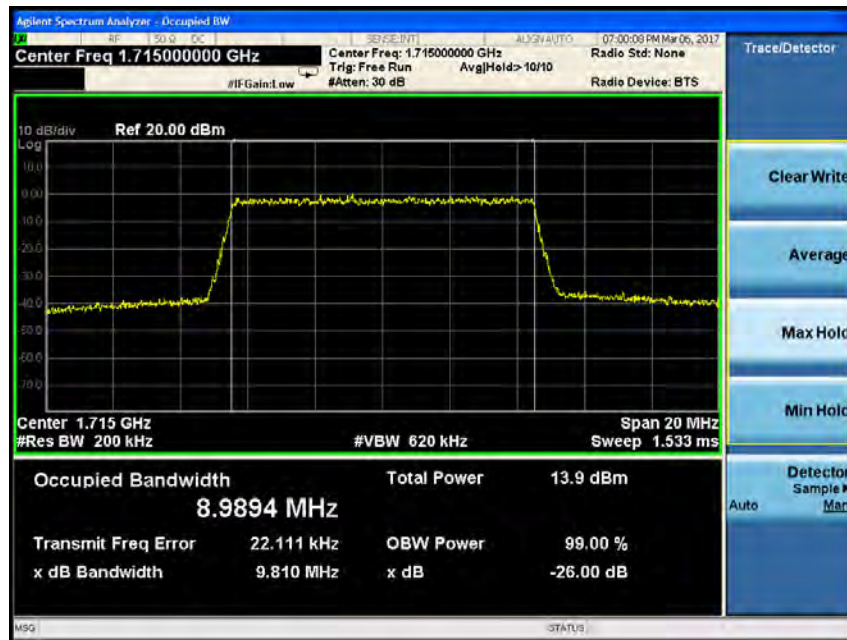
High Channel



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LTE band 4 (10 MHz - QPSK)

Low Channel

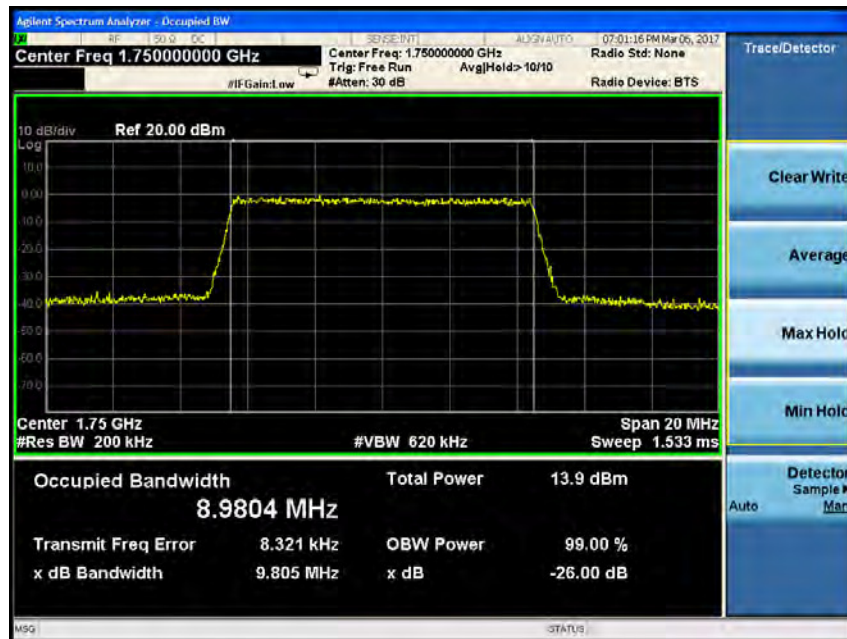


Middle Channel



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High Channel



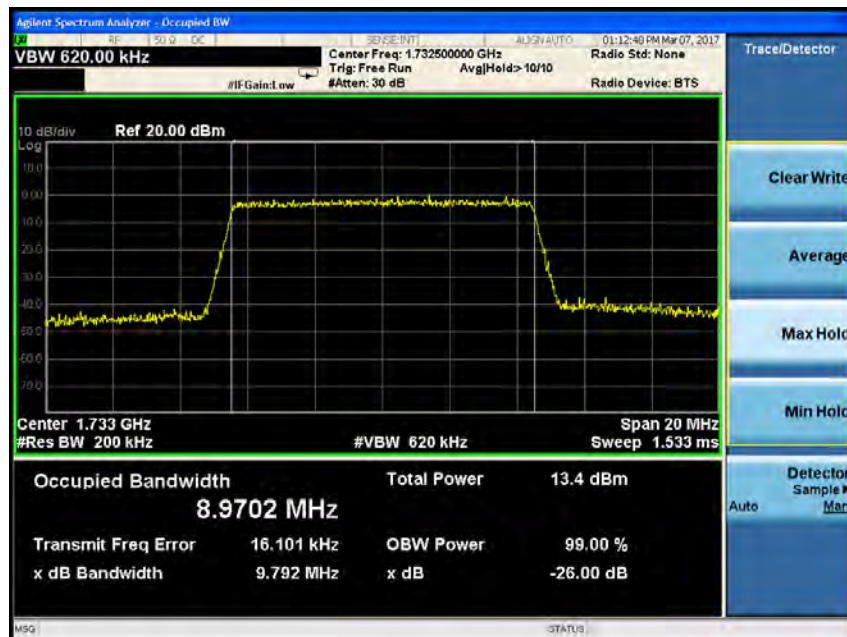
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LTE band 4 (10 MHz - 16QAM)

Low Channel



Middle Channel



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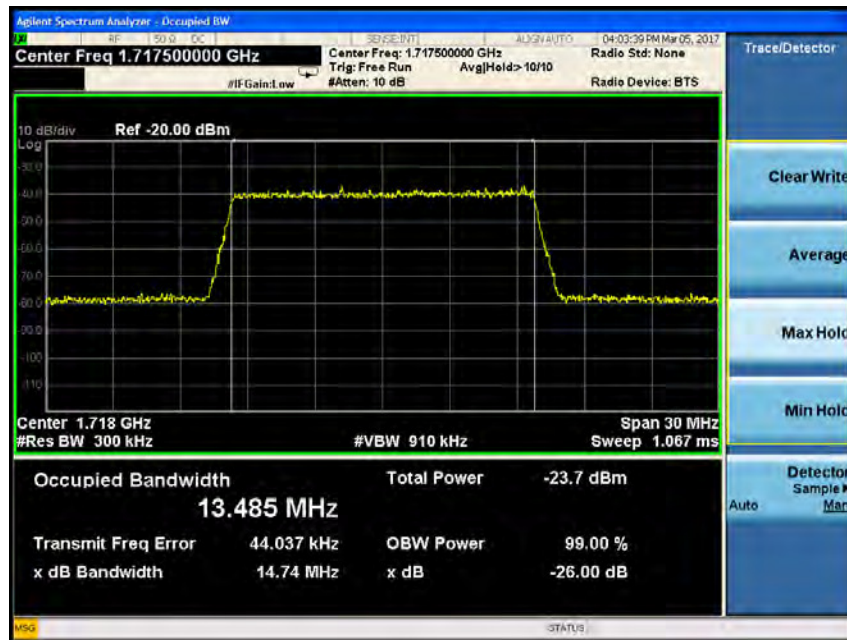
High Channel



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LTE band 4 (15 MHz - QPSK)

Low Channel



Middle Channel



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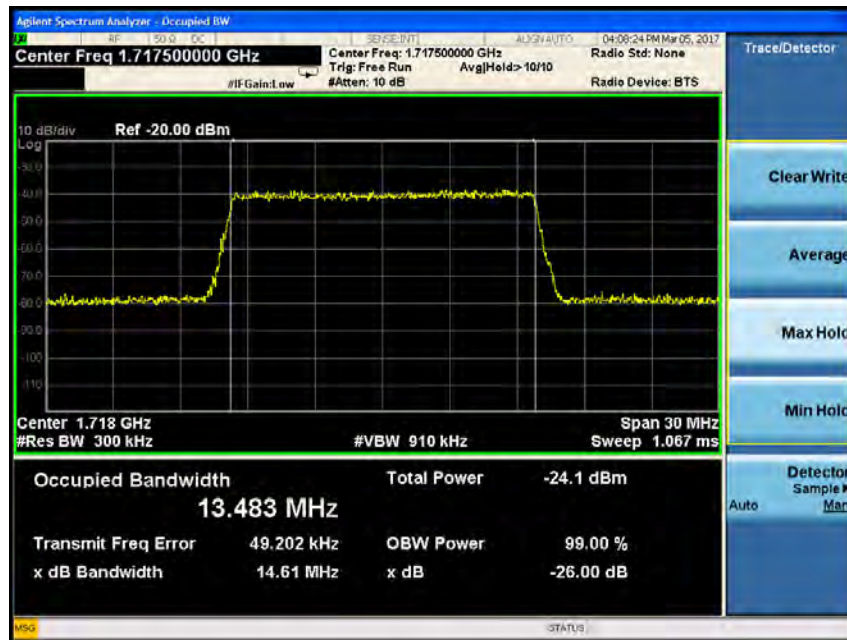
High Channel



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LTE band 4 (15 MHz - 16QAM)

Low Channel

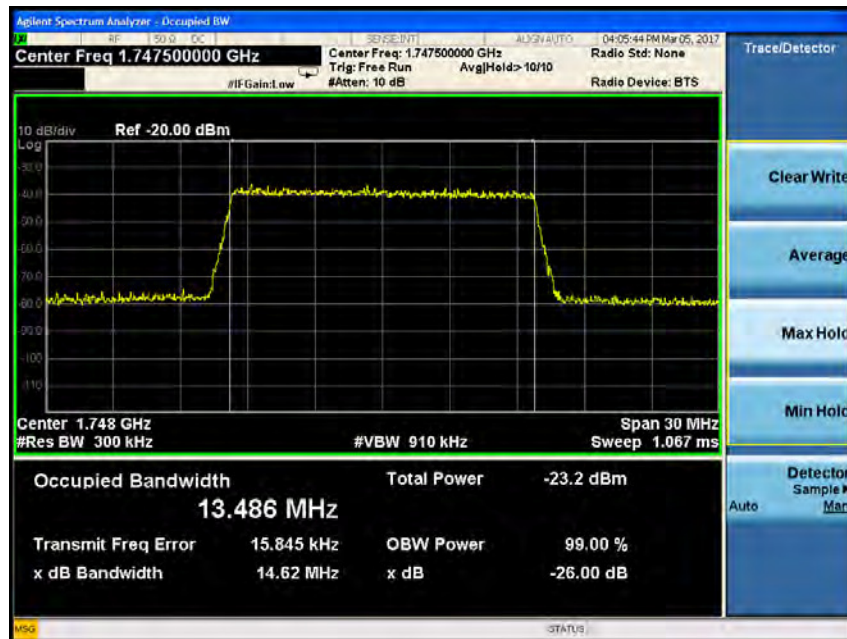


Middle Channel



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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>

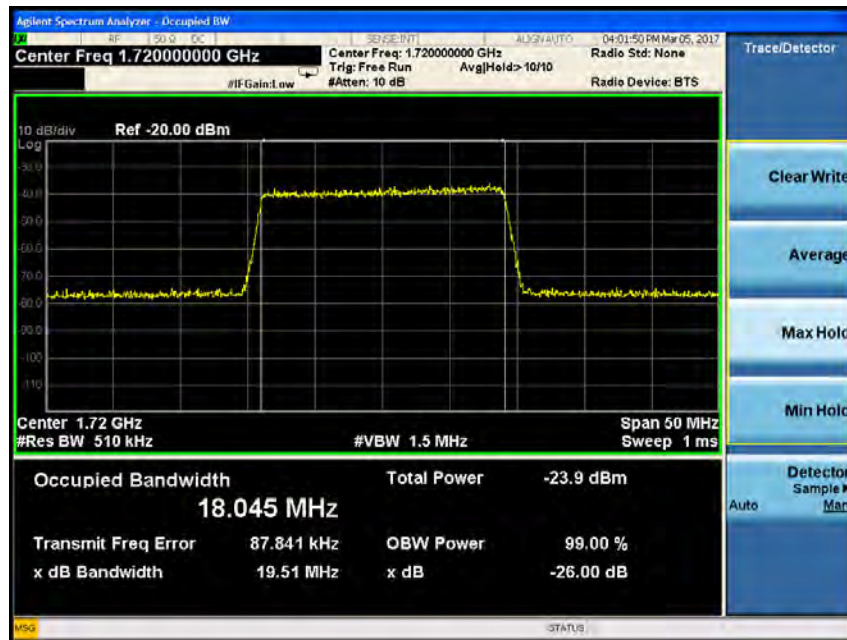
RTT5041-19(2017.07.10)(0)

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

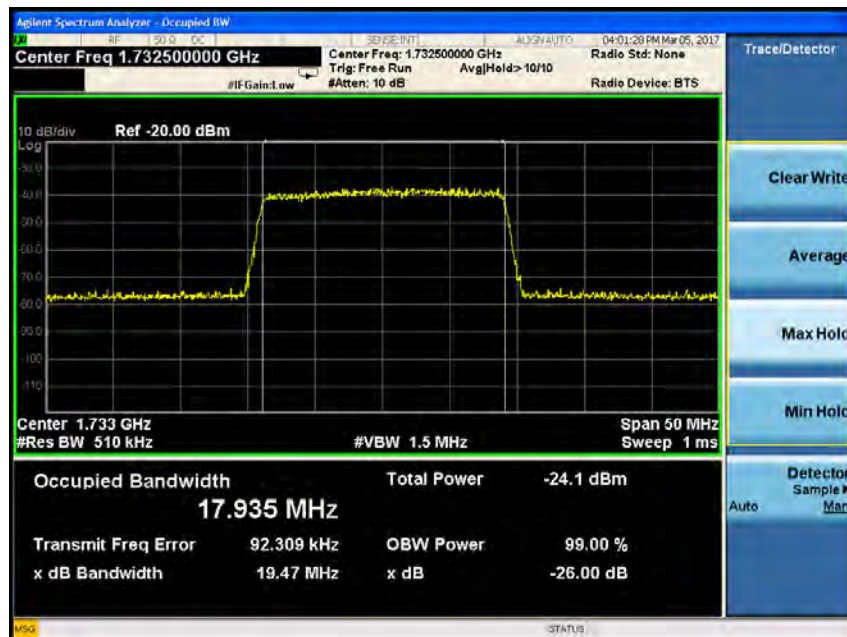
A4(210 mm x 297 mm)

LTE band 4 (20 MHz - QPSK)

Low Channel

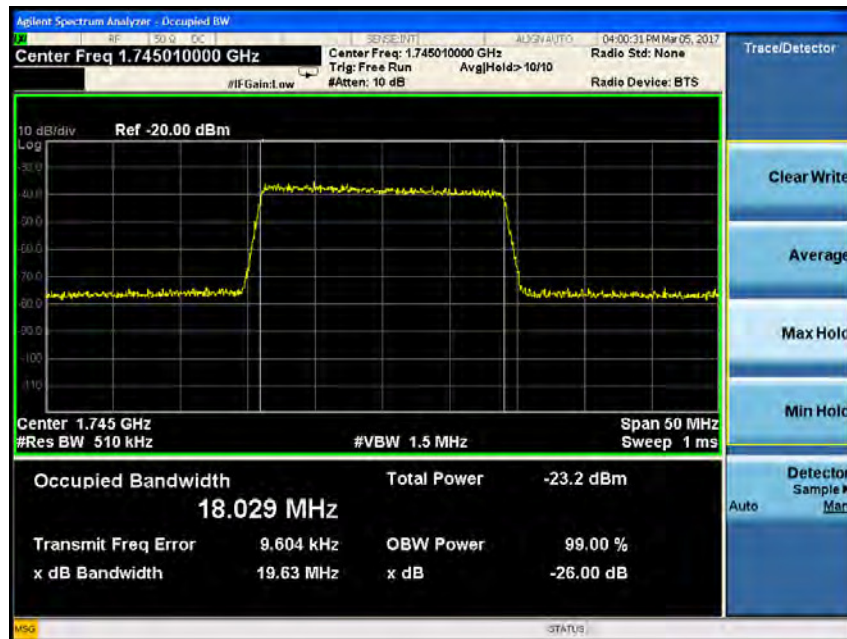


Middle Channel



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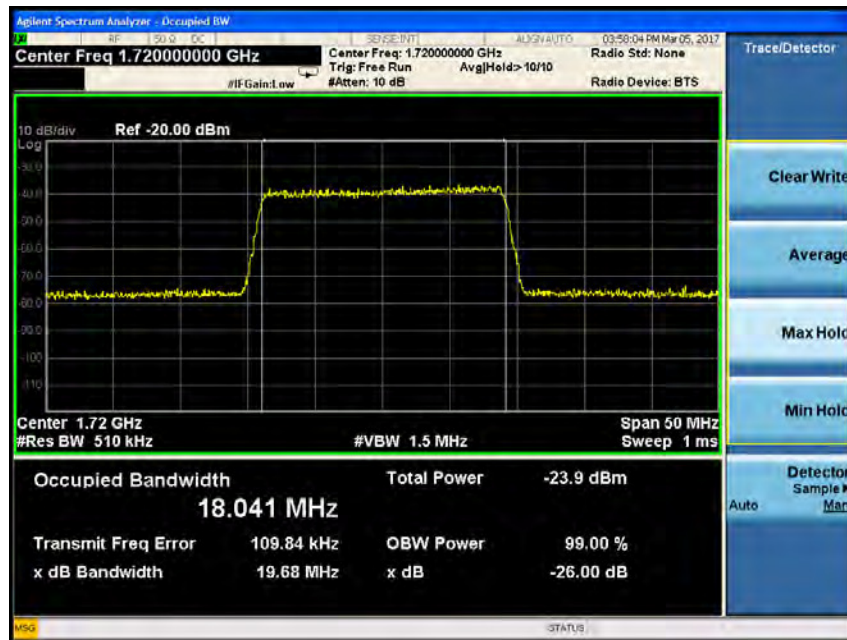
High Channel



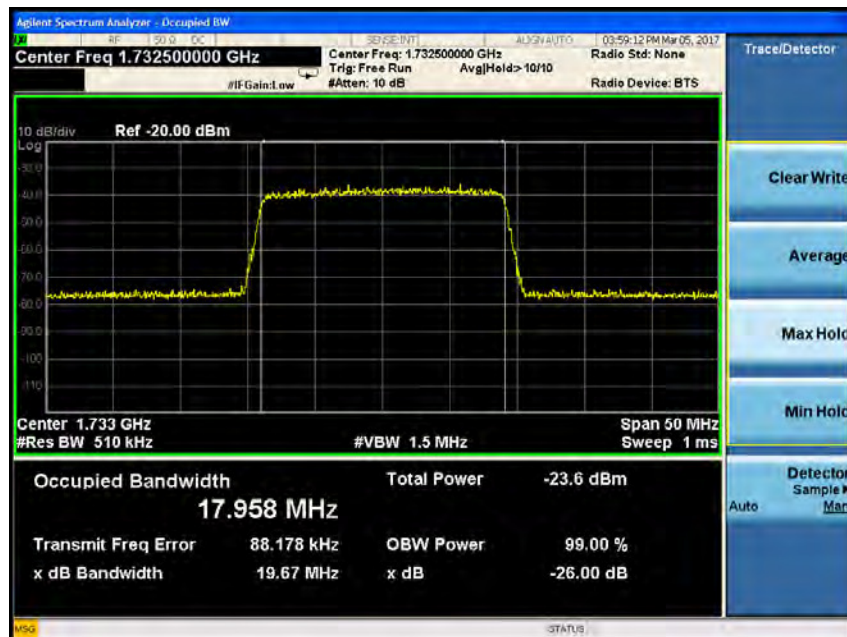
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 4 (20 MHz - 16QAM)

Low Channel

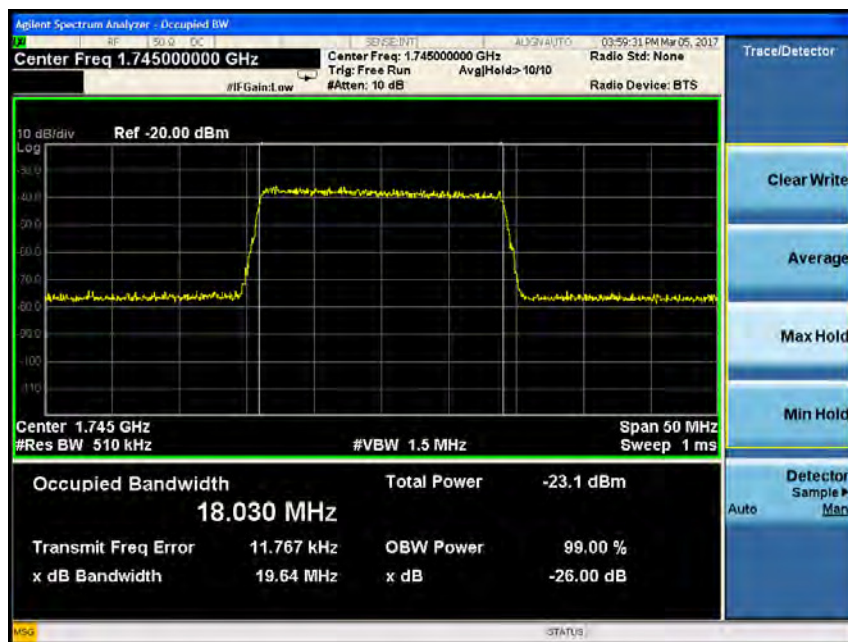


Middle Channel



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High Channel



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LTE band 5 (1.4 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



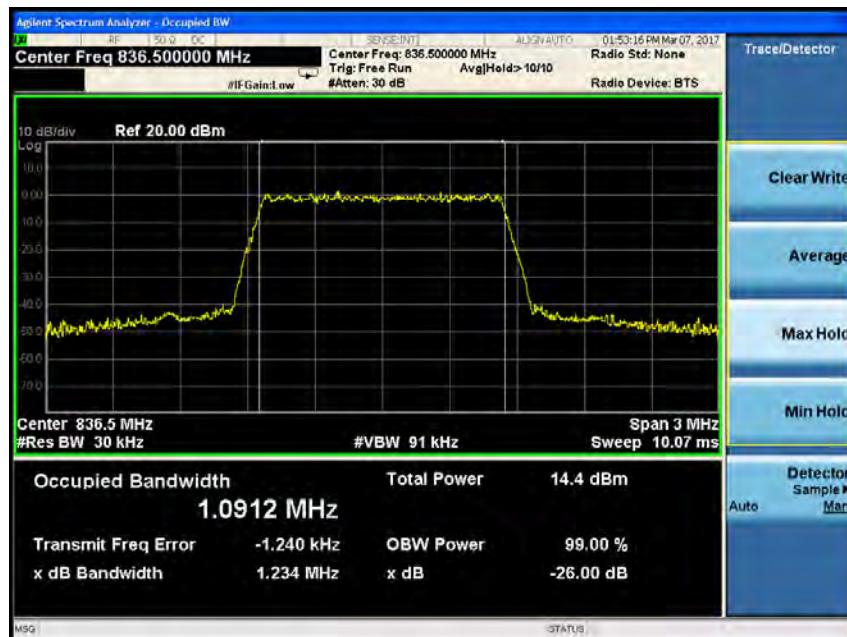
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 5 (1.4 MHz - 16QAM)

Low Channel



Middle Channel



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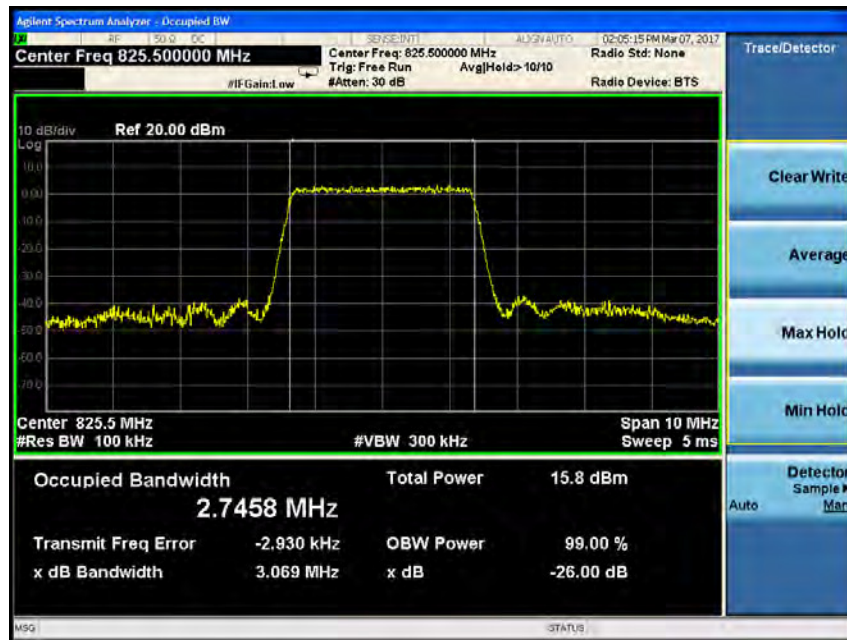
High Channel



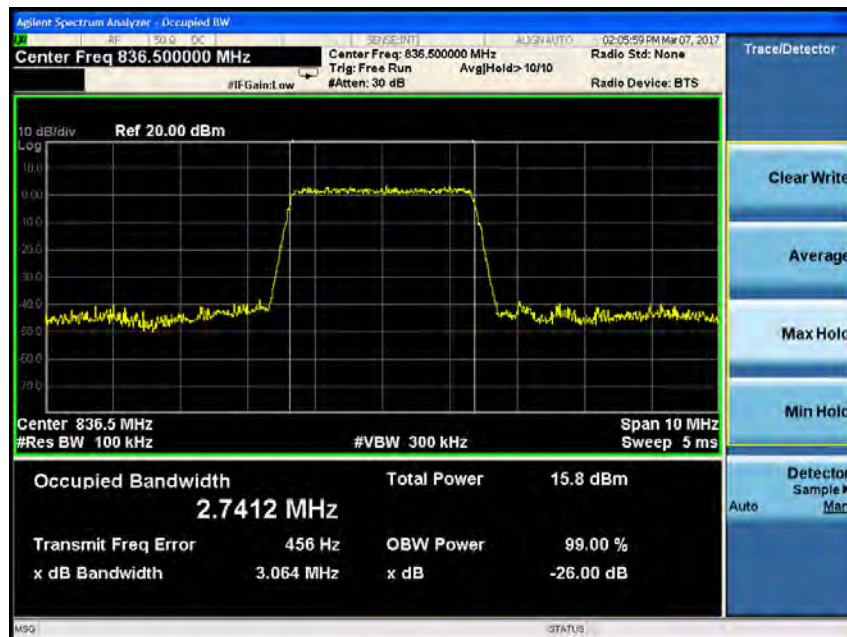
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 5 (3 MHz - QPSK)

Low Channel

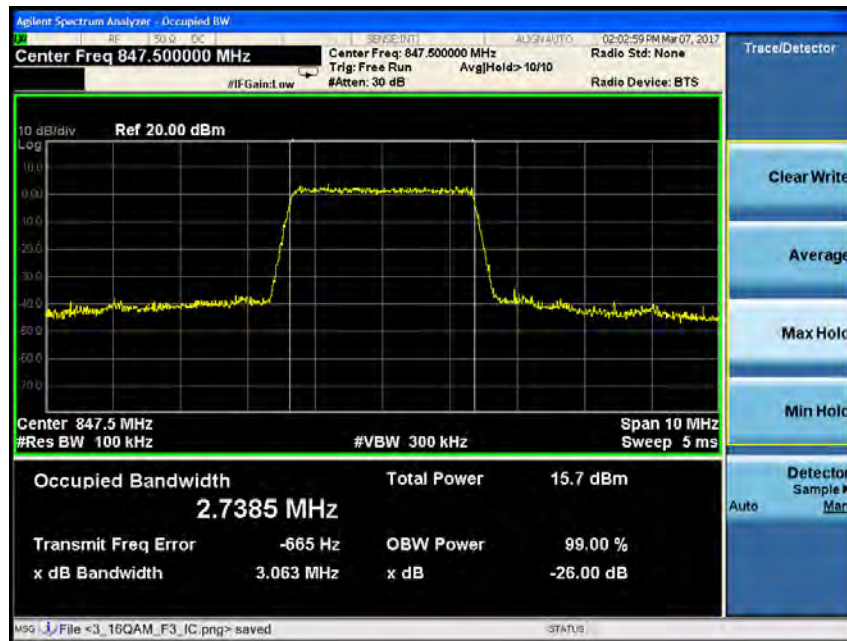


Middle Channel



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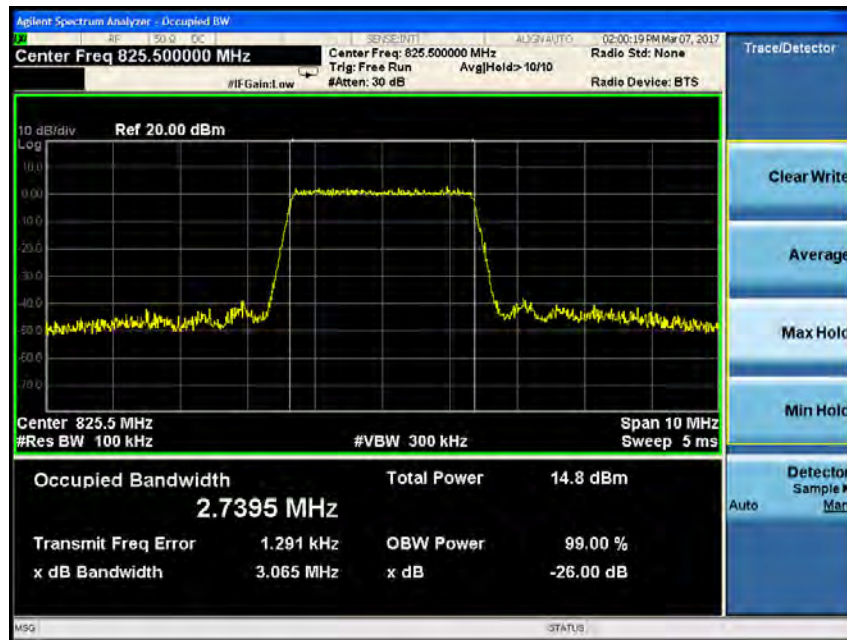
High Channel



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LTE band 5 (3 MHz - 16QAM)

Low Channel



Middle Channel



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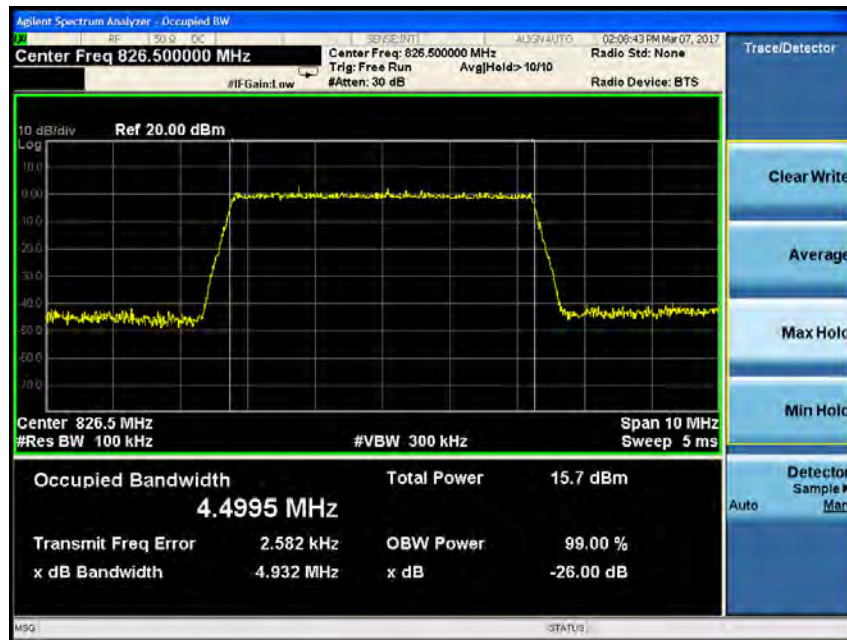
High Channel



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LTE band 5 (5 MHz - QPSK)

Low Channel

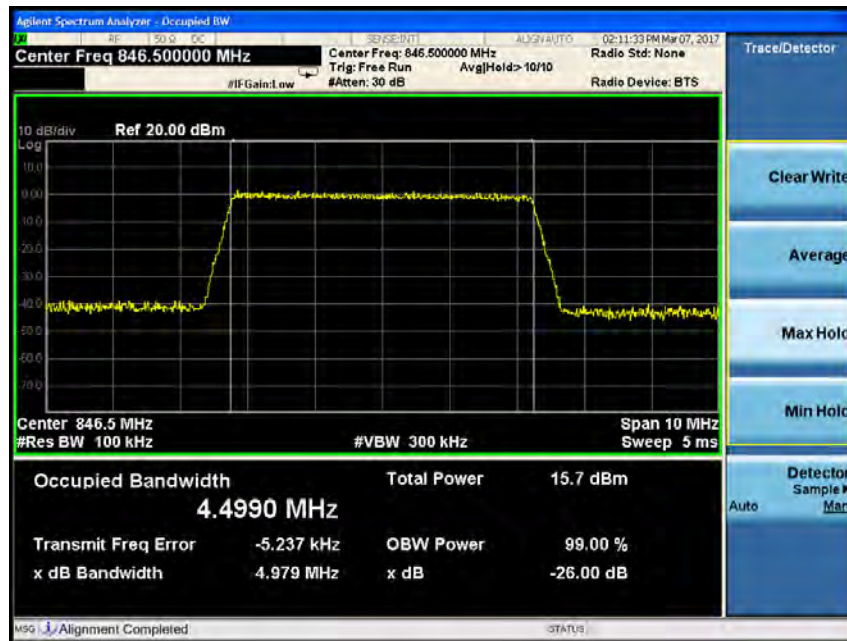


Middle Channel



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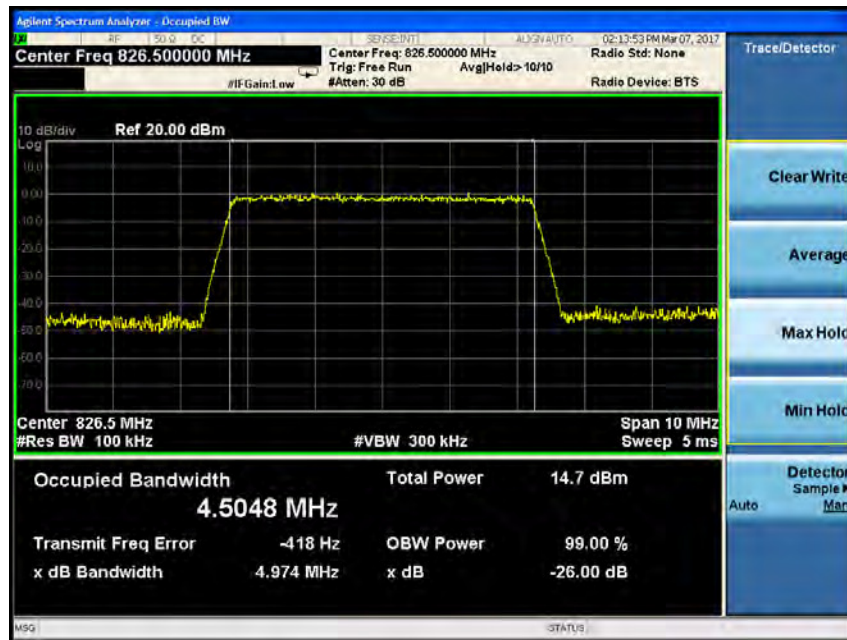
High Channel



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LTE band 5 (5 MHz - 16QAM)

Low Channel



Middle Channel



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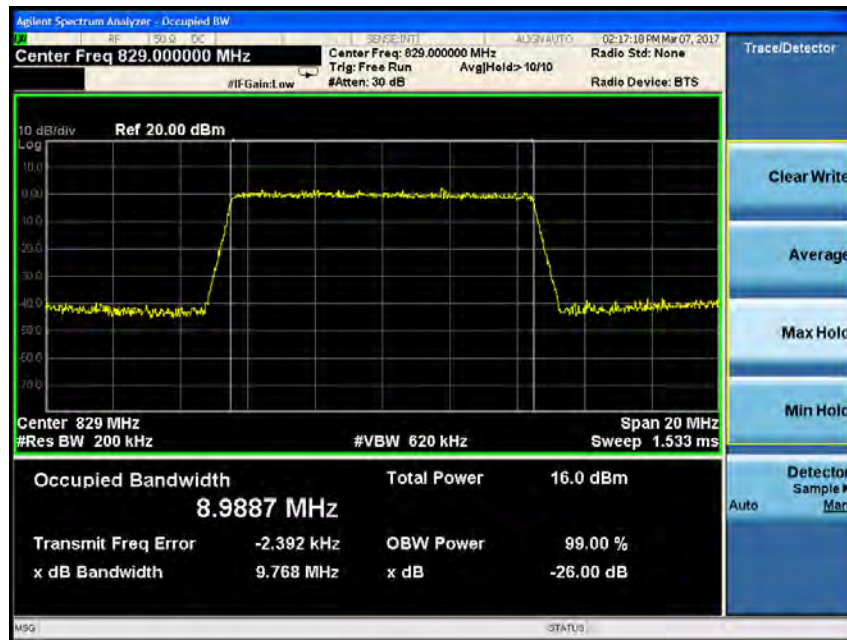
High Channel



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LTE band 5 (10 MHz - QPSK)

Low Channel



Middle Channel



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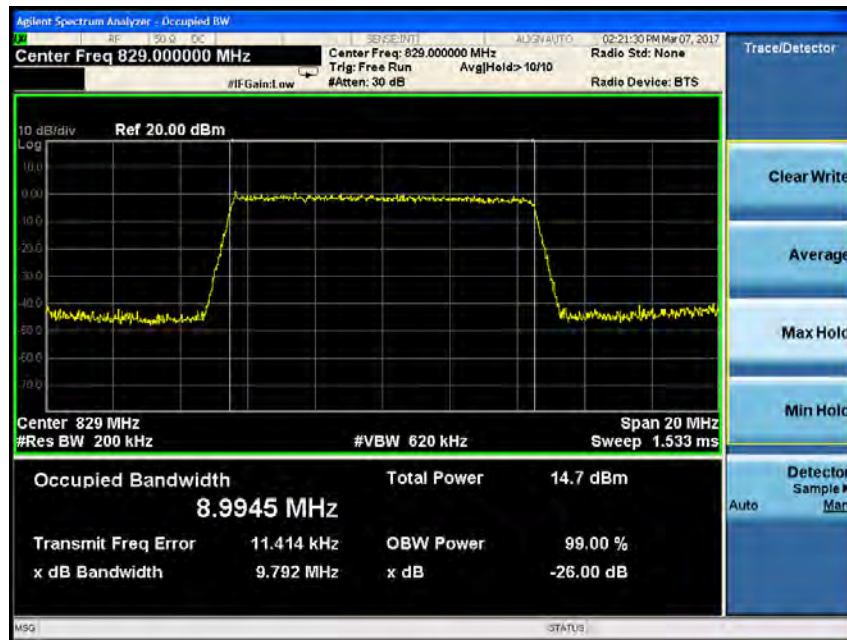
High Channel



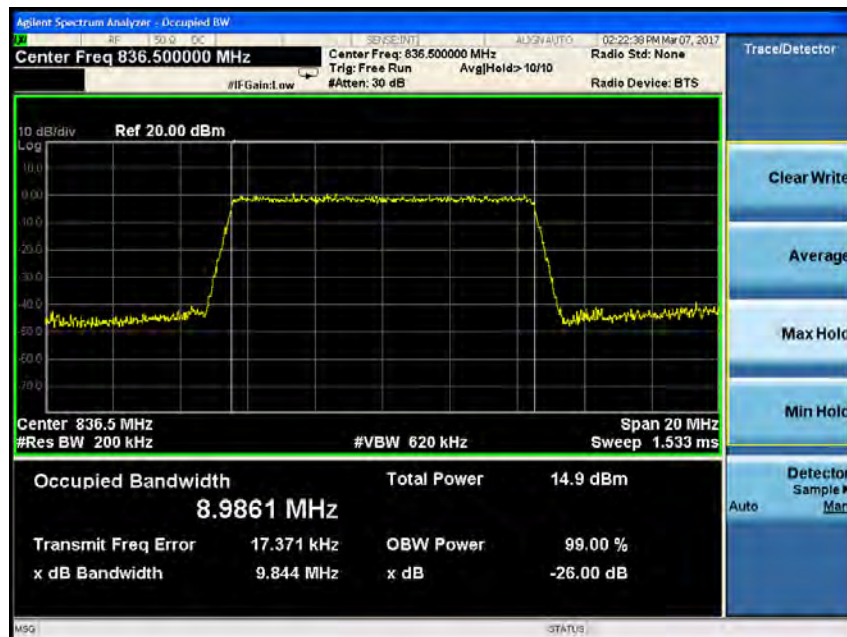
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 5 (10 MHz - 16QAM)

Low Channel

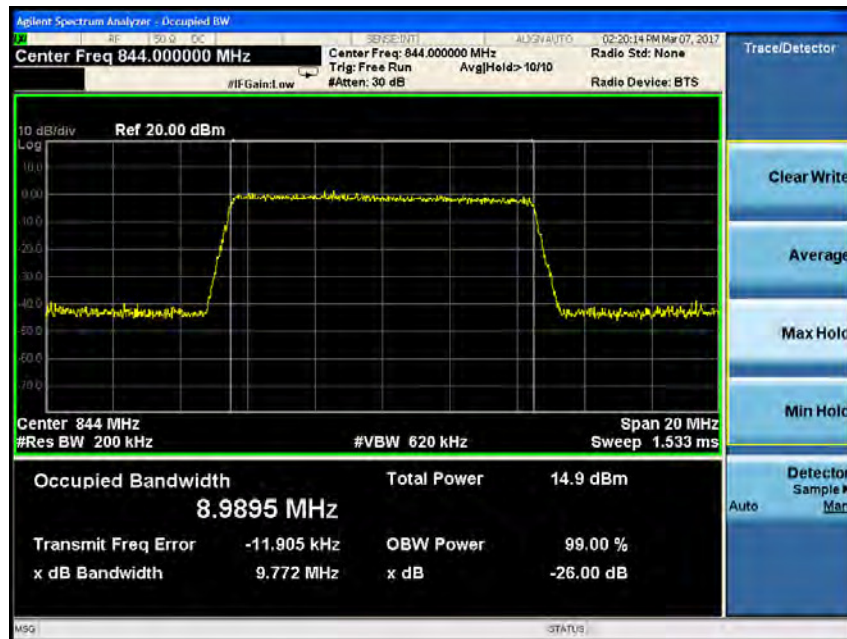


Middle Channel



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High Channel



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LTE band 12 (1.4 MHz - QPSK)

Low Channel

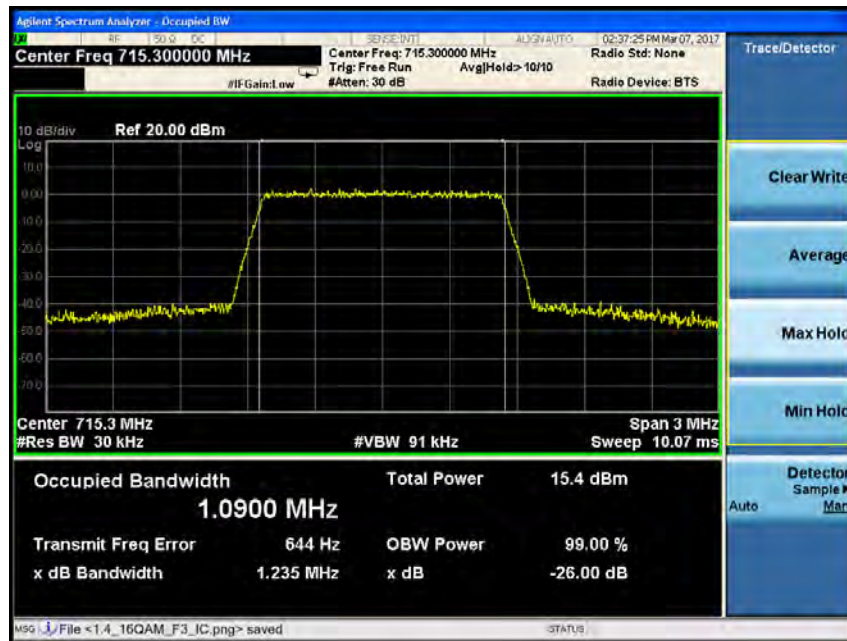


Middle Channel



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High Channel



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LTE band 12 (1.4 MHz - 16QAM)

Low Channel



Middle Channel



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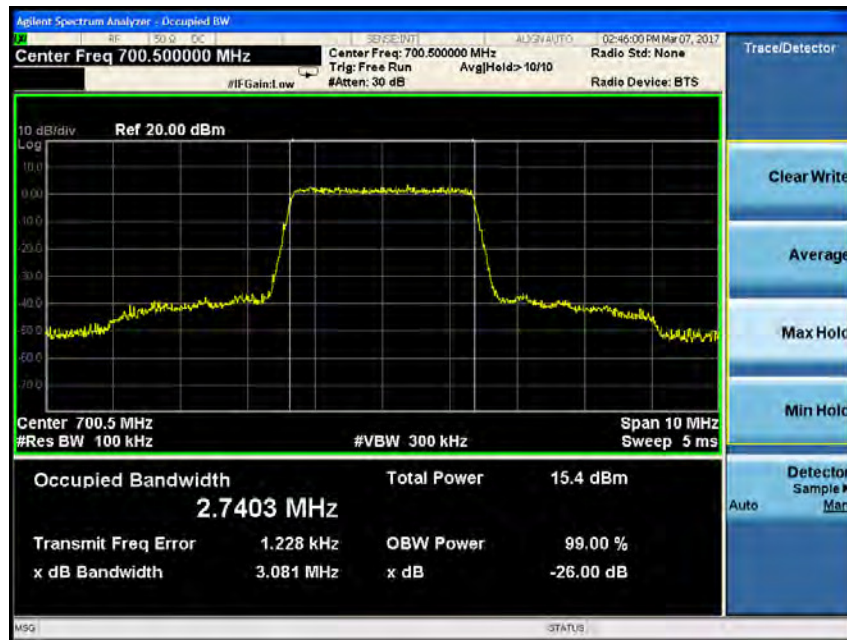
High Channel



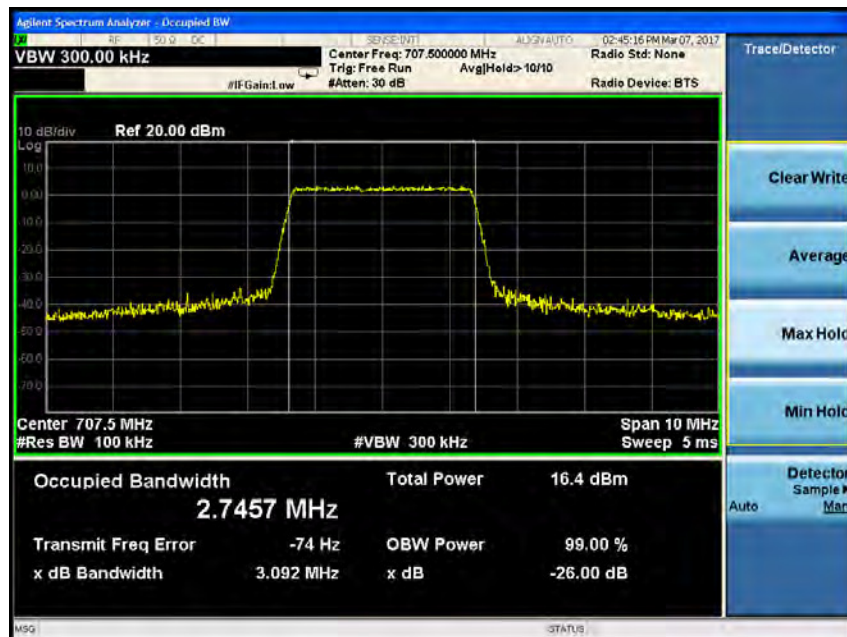
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 12 (3 MHz - QPSK)

Low Channel

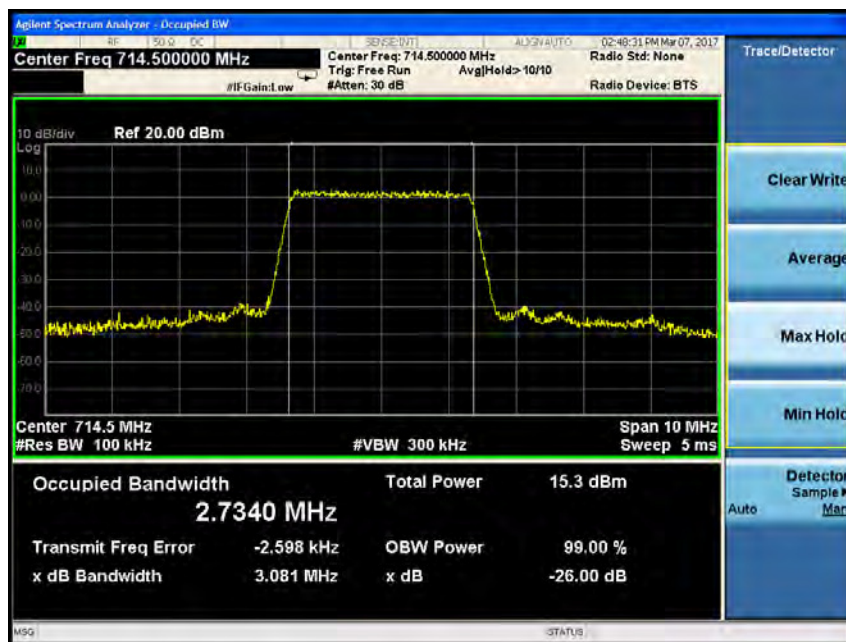


Middle Channel



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High Channel



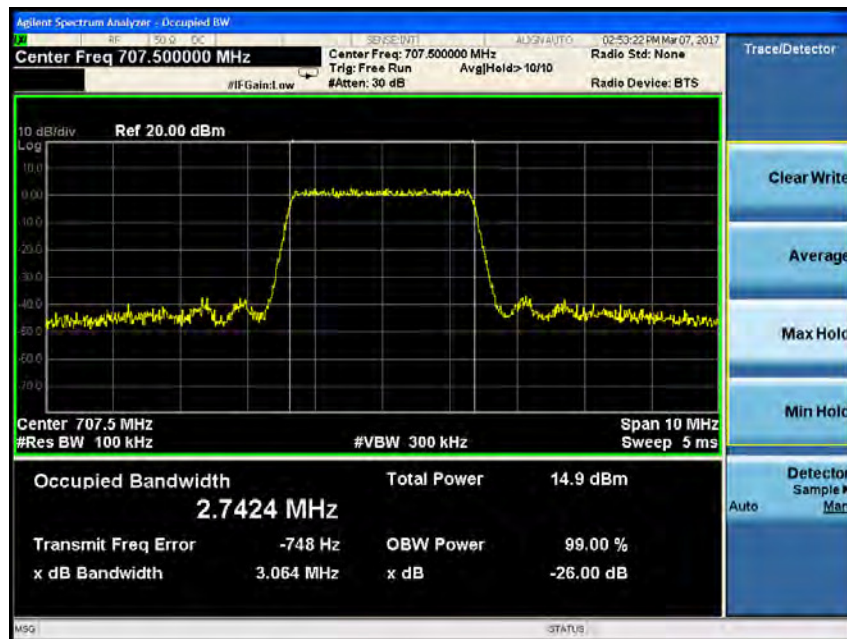
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LTE band 12 (3 MHz - 16QAM)

Low Channel



Middle Channel



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High Channel



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LTE band 12 (5 MHz - QPSK)

Low Channel

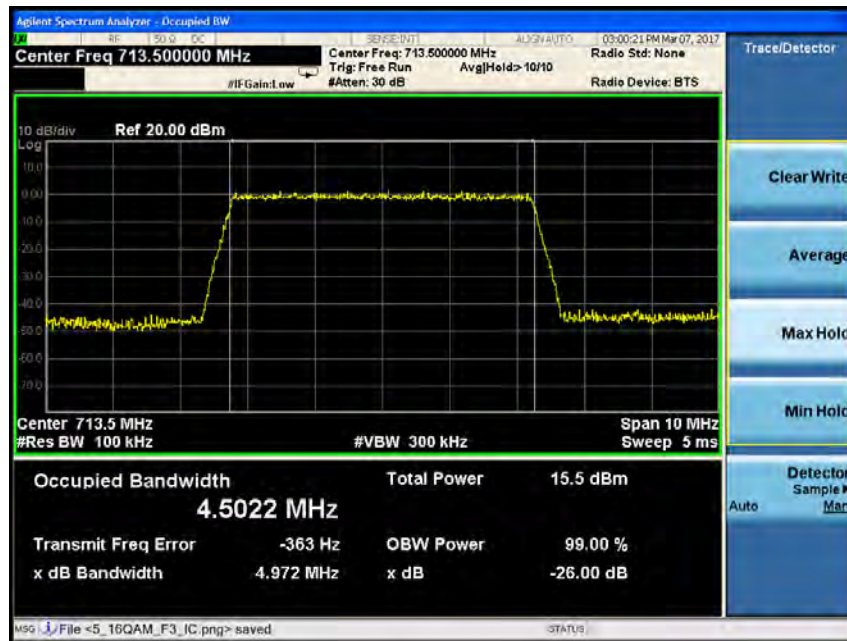


Middle Channel



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High Channel



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LTE band 12 (5 MHz - 16QAM)

Low Channel

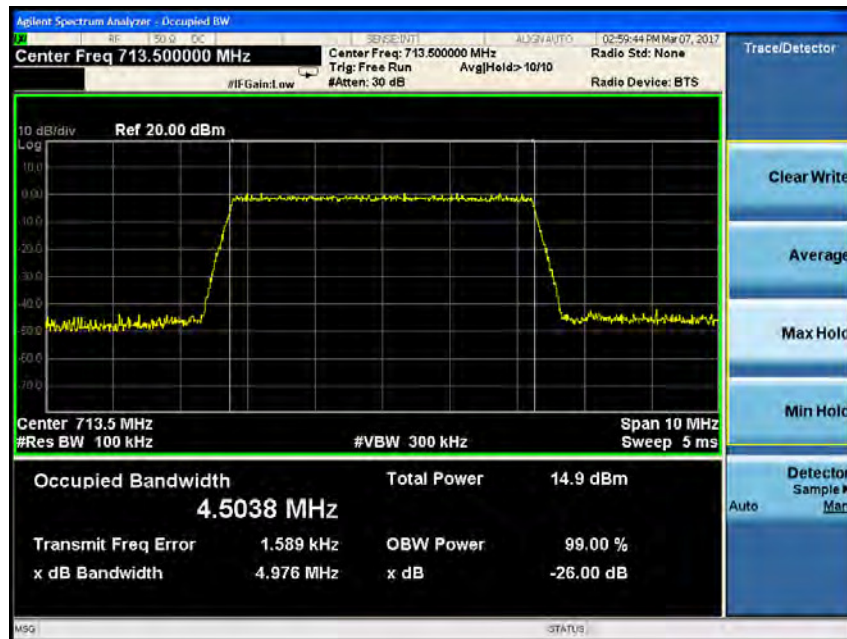


Middle Channel



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High Channel



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LTE band 12 (10 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 12 (10 MHz - 16QAM)

Low Channel



Middle Channel



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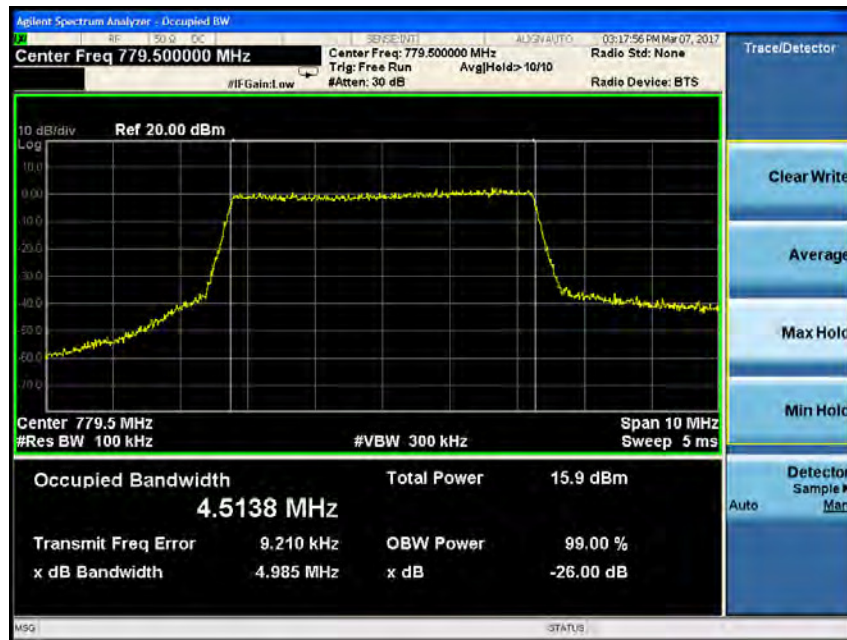
High Channel



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LTE band 13 (5 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 13 (5 MHz - 16QAM)

Low Channel



Middle Channel



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High Channel



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LTE band 13 (10 MHz - QPSK) Middle Channel



LTE band 13 (10 MHz - 16QAM) Middle Channel



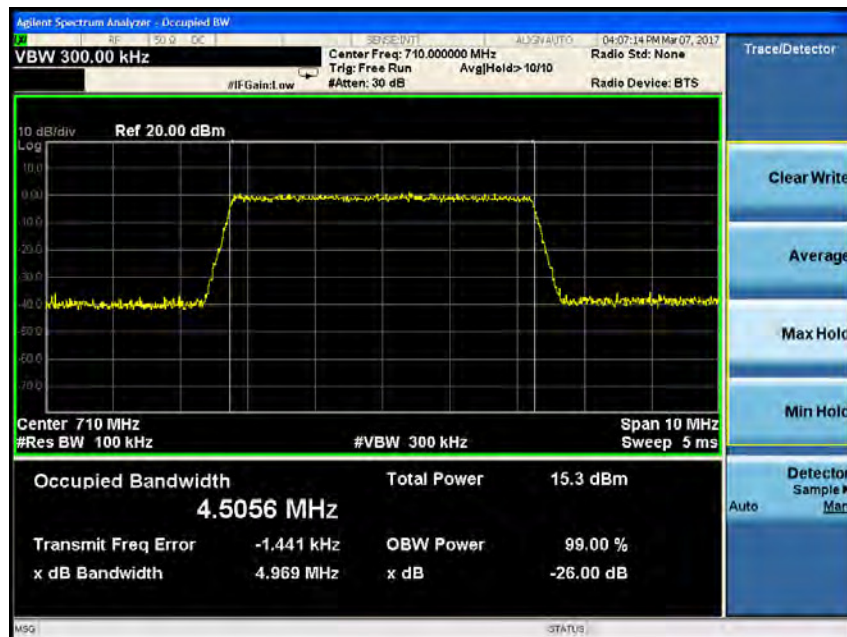
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

LTE band 17 (5 MHz - QPSK)

Low Channel



Middle Channel



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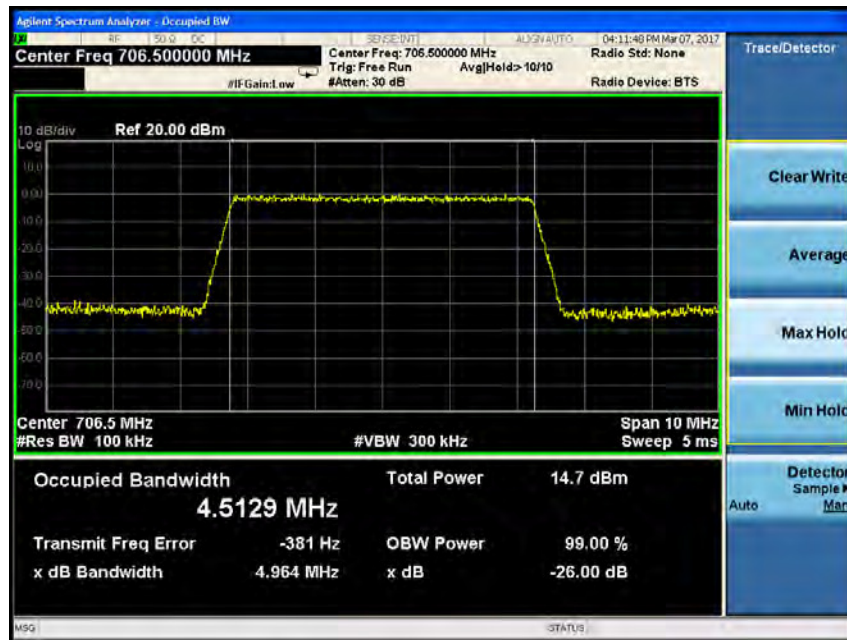
High Channel



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LTE band 17 (5 MHz - 16QAM)

Low Channel

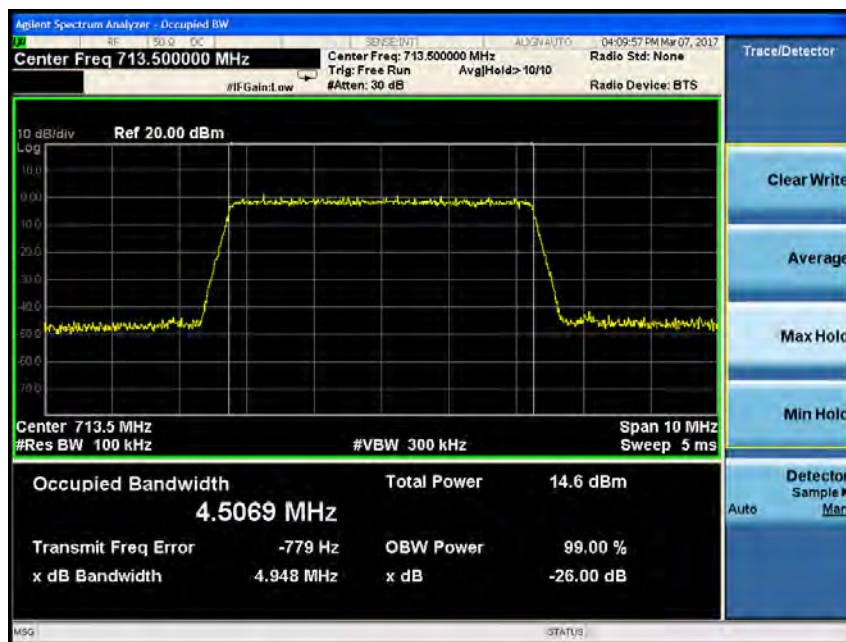


Middle Channel



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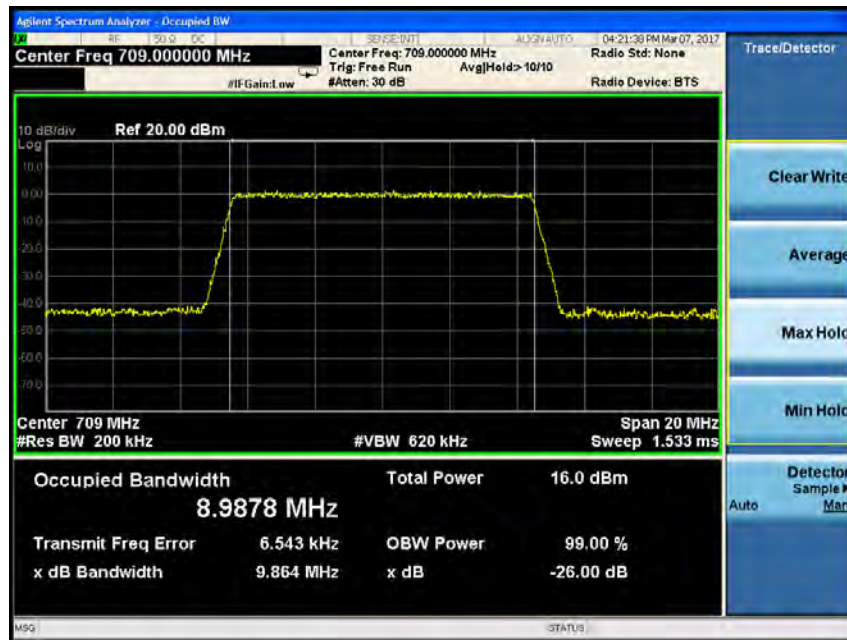
High Channel



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LTE band 17 (10 MHz - QPSK)

Low Channel



Middle Channel



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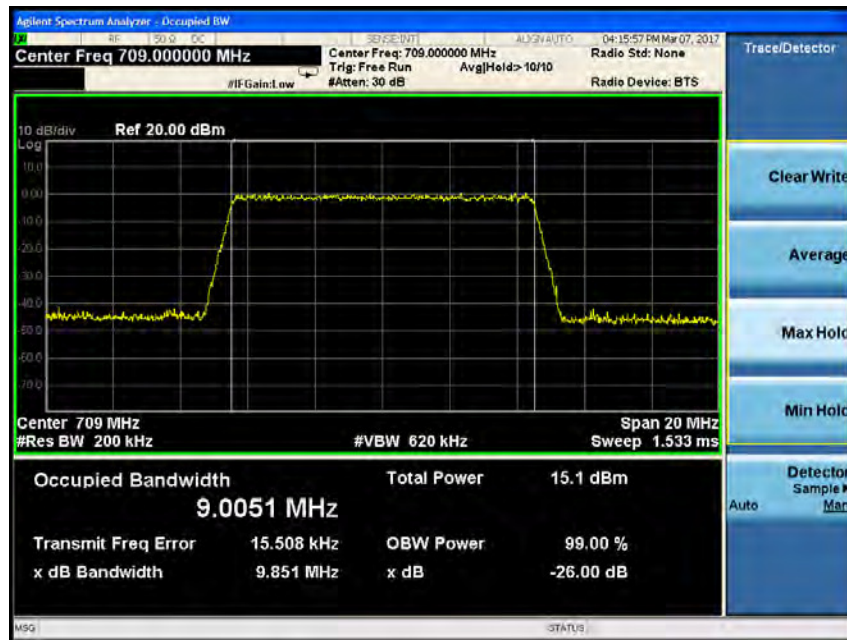
High Channel



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LTE band 17 (10 MHz - 16QAM)

Low Channel

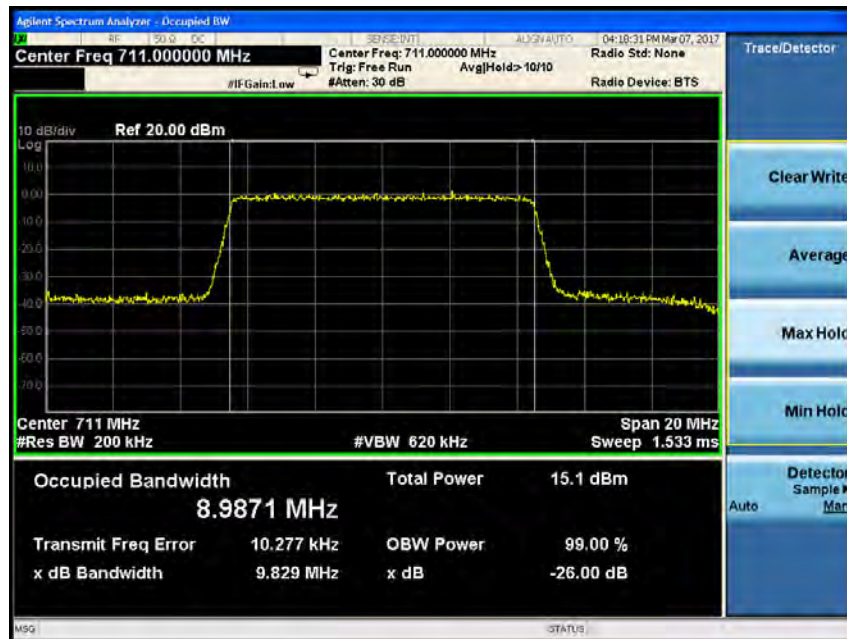


Middle Channel



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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

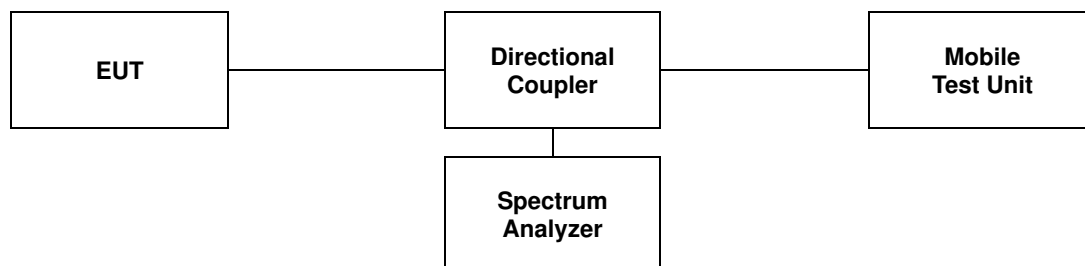
6.5, the peak to average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1 % of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

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5.2. Test Procedure

The test follows section 5.7.2 of FCC KDB Publication 971168 D01 v02r02.

1. Refer to the instruction manual of the instrument for details on how to use the power statistics/CCDF function.
2. Set resolution/measurement bandwidth $\geq$ OBW of the signal, or $\geq$ signal's occupied bandwidth.
3. Set the number of counts to a value that stabilizes the measured CCDF curve.
4. Set the measurement interval as follows:
 - a) For continuous transmissions, set to $[10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ or 1 ms.
 - b) 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.
 - c) If there are multiple carriers (i.e., multiple emission signals with specific associated necessary bandwidths) in a single antenna port, the peak power for that port shall be determined for each individual carrier by disabling the other carriers while measuring the required carrier, then the total peak power is calculated from the sum of the individual carrier peak powers.
5. Record the maximum PAPR level associated with a probability of 0.1 %.



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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	4.85
		1 880.0	4.62
		1 909.3	4.87
2 (3 MHz)	QPSK	1 851.5	4.92
		1 880.0	4.71
		1 908.5	4.84
2 (5 MHz)	QPSK	1 852.5	4.59
		1 880.0	4.68
		1 907.5	4.86
2 (10 MHz)	QPSK	1 855.0	4.92
		1 880.0	4.63
		1 905.0	4.81
2 (15 MHz)	QPSK	1 857.5	4.67
		1 880.0	4.26
		1 902.5	4.23
2 (20 MHz)	QPSK	1 860.0	4.46
		1 880.0	4.20
		1 900.0	4.35

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Band	Mode	Frequency (MHz)	PAR (dB)
4 (1.4 MHz)	QPSK	1 710.7	5.07
		1 732.5	4.86
		1 754.3	5.25
4 (3 MHz)	QPSK	1 711.5	5.08
		1 732.5	4.87
		1 753.5	5.25
4 (5 MHz)	QPSK	1 712.5	5.14
		1 732.5	4.86
		1 752.5	5.26
4 (10 MHz)	QPSK	1 715.0	5.14
		1 732.5	4.78
		1 750.0	4.98
4 (15 MHz)	QPSK	1 717.5	5.07
		1 732.5	4.64
		1 747.5	4.99
4 (20 MHz)	QPSK	1 720.0	4.72
		1 732.5	4.49
		1 745.0	4.64

Band	Mode	Frequency (MHz)	PAR (dB)
5 (1.4 MHz)	QPSK	824.7	5.37
		836.5	5.30
		848.3	5.62
5 (3 MHz)	QPSK	825.5	5.28
		836.5	5.30
		847.5	5.41
5 (5 MHz)	QPSK	826.5	5.28
		836.5	5.37
		846.5	5.43
5 (10 MHz)	QPSK	829.0	5.26
		836.5	5.30
		844.0	5.23

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Band	Mode	Frequency (MHz)	PAR (dB)
12 (1.4 MHz)	QPSK	699.7	5.11
		707.5	5.29
		715.3	5.14
12 (3 MHz)	QPSK	700.5	5.03
		707.5	5.19
		714.5	5.09
12 (5 MHz)	QPSK	701.5	5.11
		707.5	5.24
		713.5	5.17
12 (10 MHz)	QPSK	704.0	5.09
		707.5	5.15
		711.0	5.14

Band	Mode	Frequency (MHz)	PAR (dB)
13 (5 MHz)	QPSK	779.5	5.15
		782.0	5.06
		784.5	5.49
13 (10 MHz)	QPSK	-	-
		782.0	5.05
		-	-

Band	Mode	Frequency (MHz)	PAR (dB)
17 (5 MHz)	QPSK	706.5	5.21
		710.0	5.13
		713.5	5.08
17 (10 MHz)	QPSK	709.0	5.11
		710.0	5.11
		711.0	5.08

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LTE band 2 (1.4 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 2 (3 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 2 (5 MHz - QPSK)

Low Channel

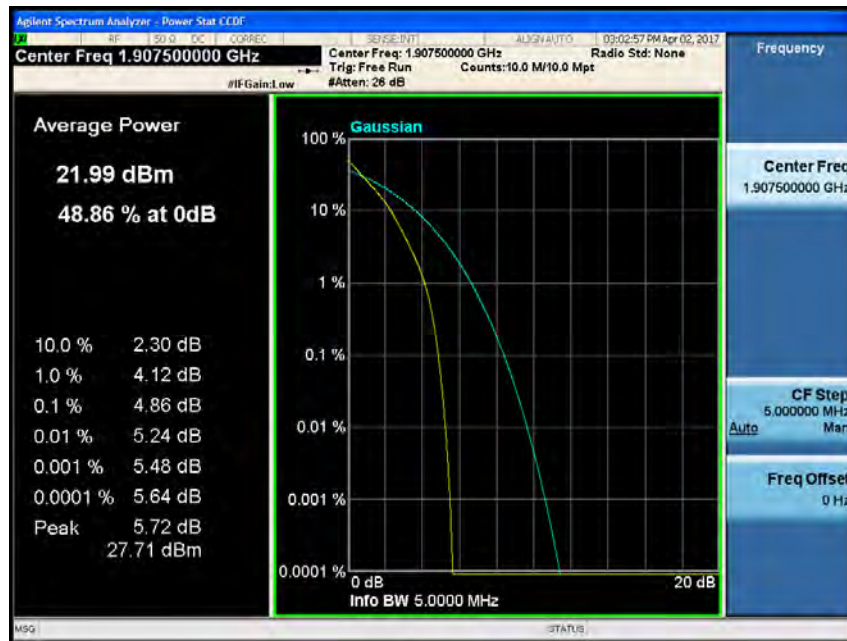


Middle Channel



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High Channel



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LTE band 2 (10 MHz - QPSK)

Low Channel



Middle Channel



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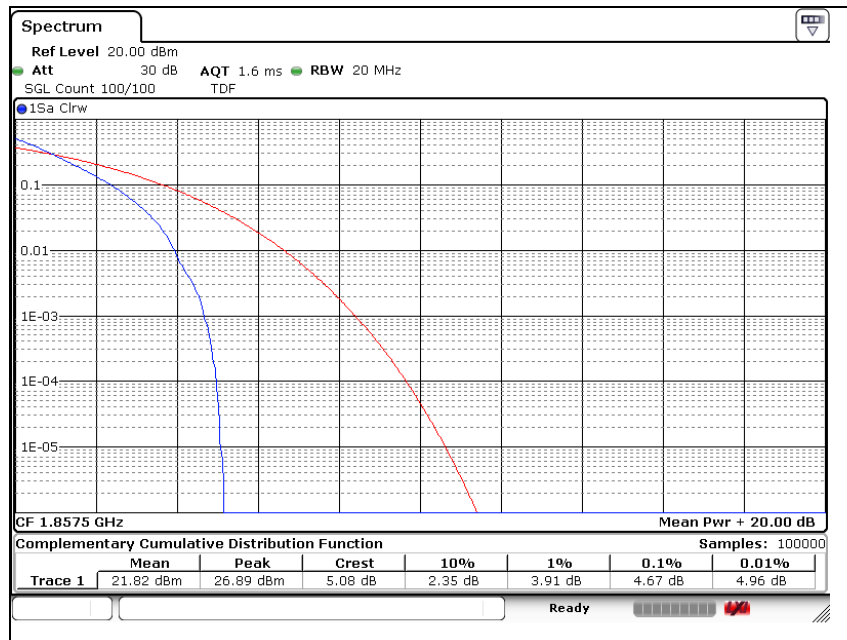
High Channel



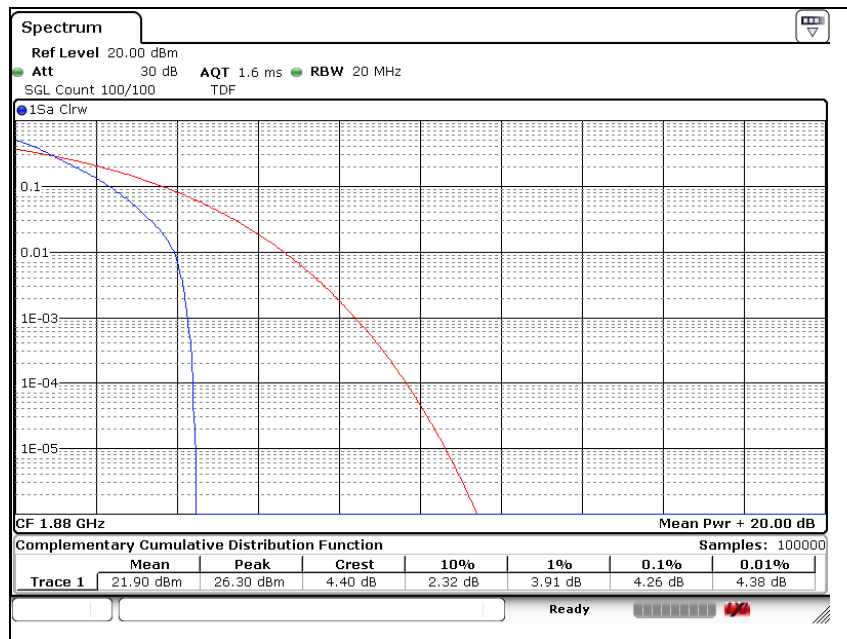
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LTE band 2 (15 MHz - QPSK)

Low Channel

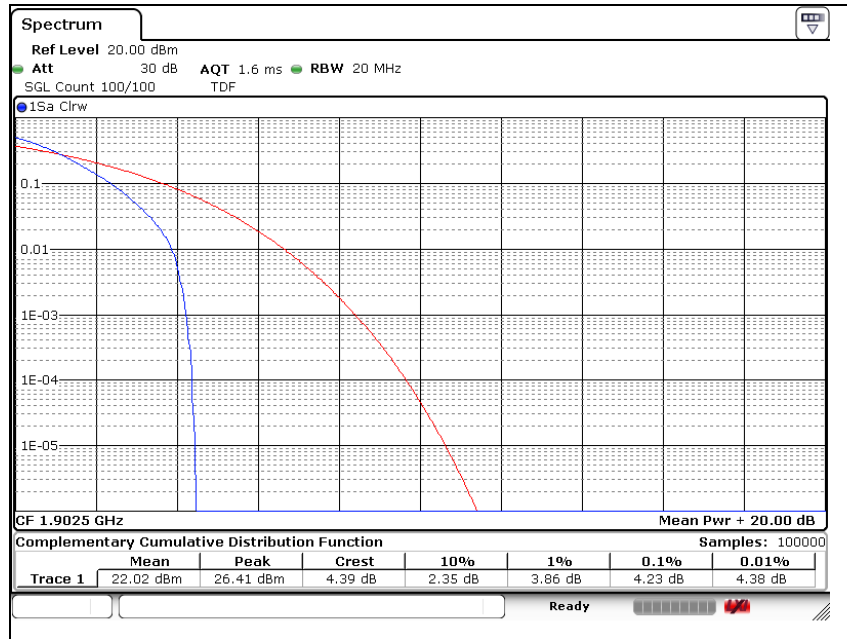


Middle Channel



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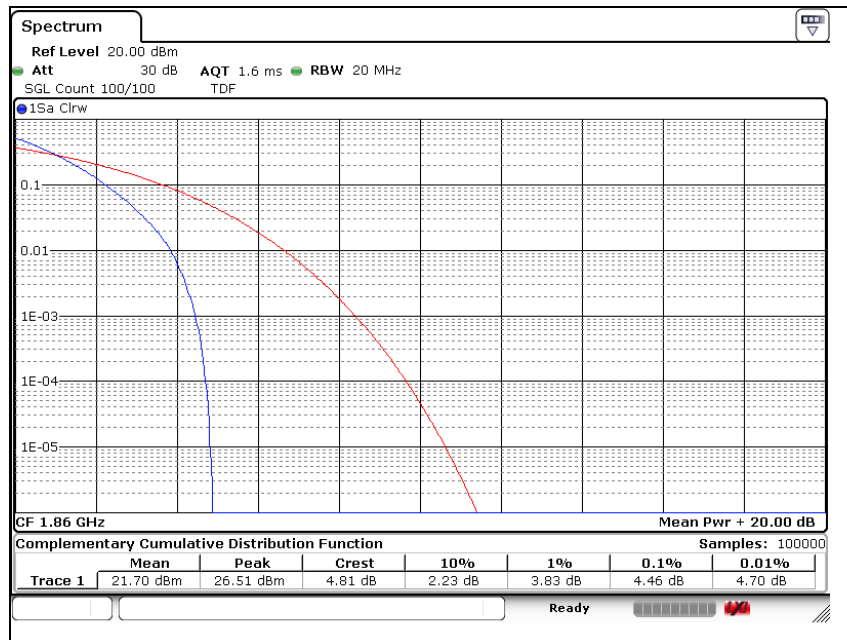
High Channel



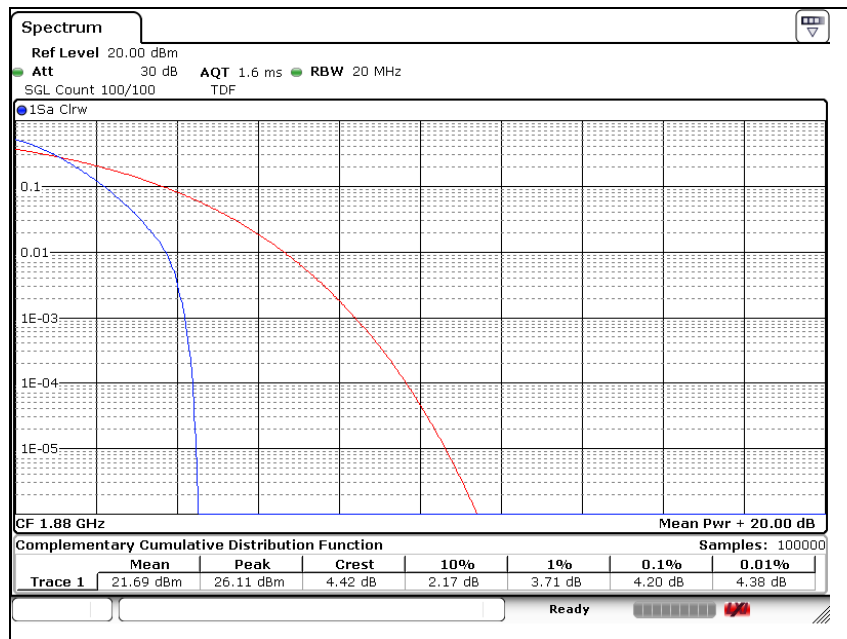
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LTE band 2 (20 MHz - QPSK)

Low Channel

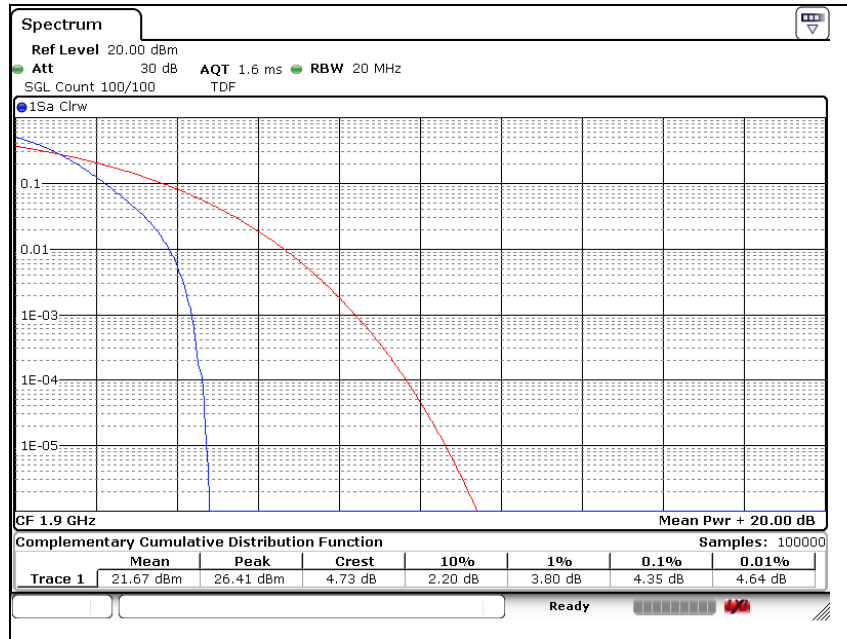


Middle Channel



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High Channel



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LTE band 4 (1.4 MHz - QPSK)

Low Channel

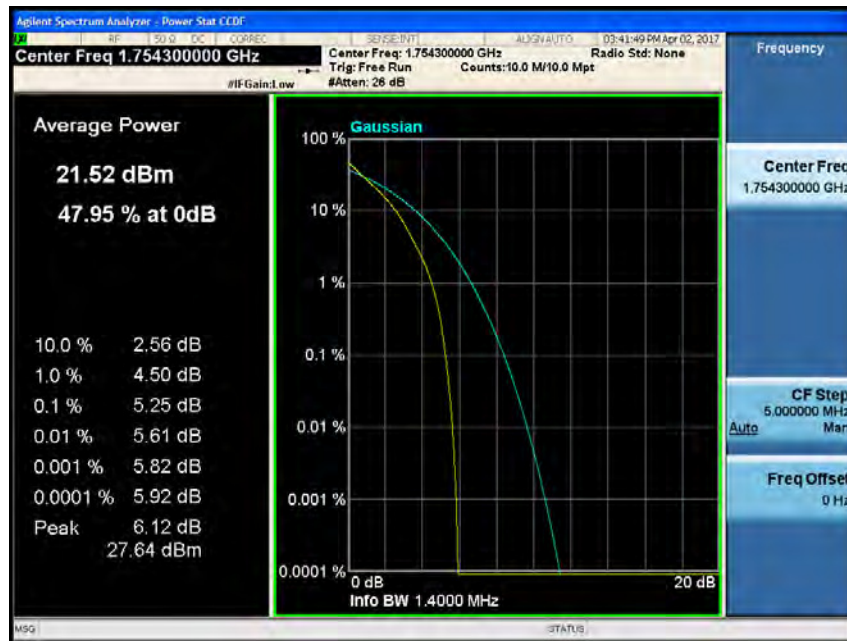


Middle Channel



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High Channel



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LTE band 4 (3 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 4 (5 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 4 (10 MHz - QPSK)

Low Channel



Middle Channel



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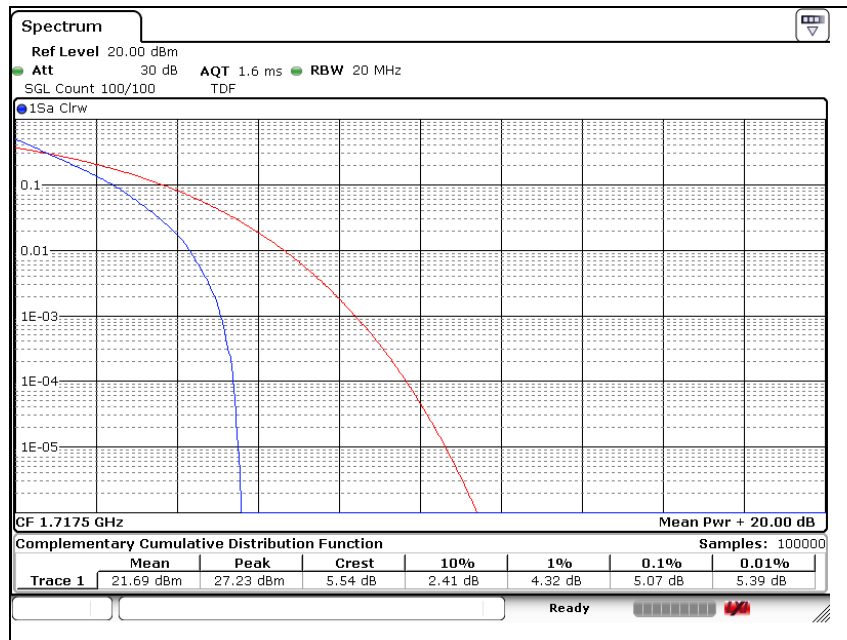
High Channel



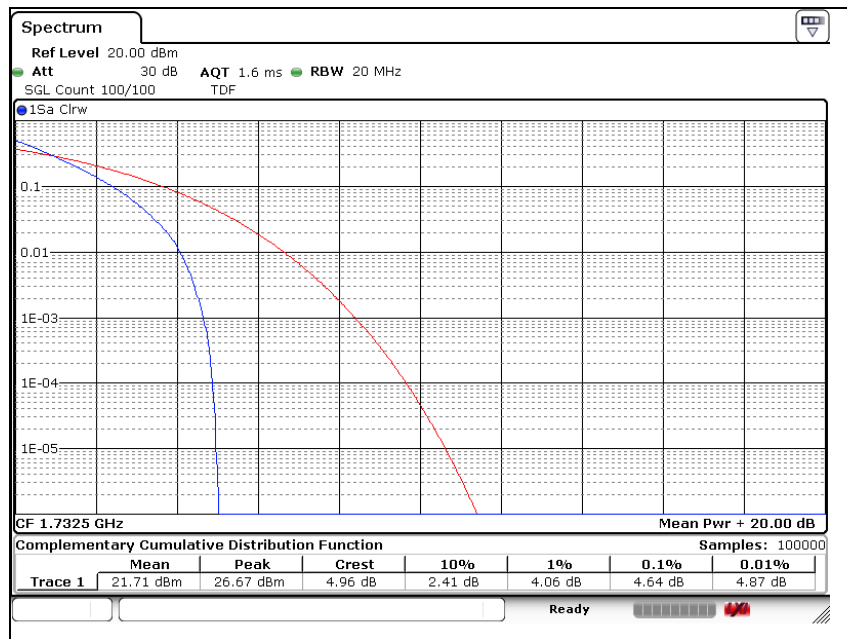
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LTE band 4 (15 MHz - QPSK)

Low Channel

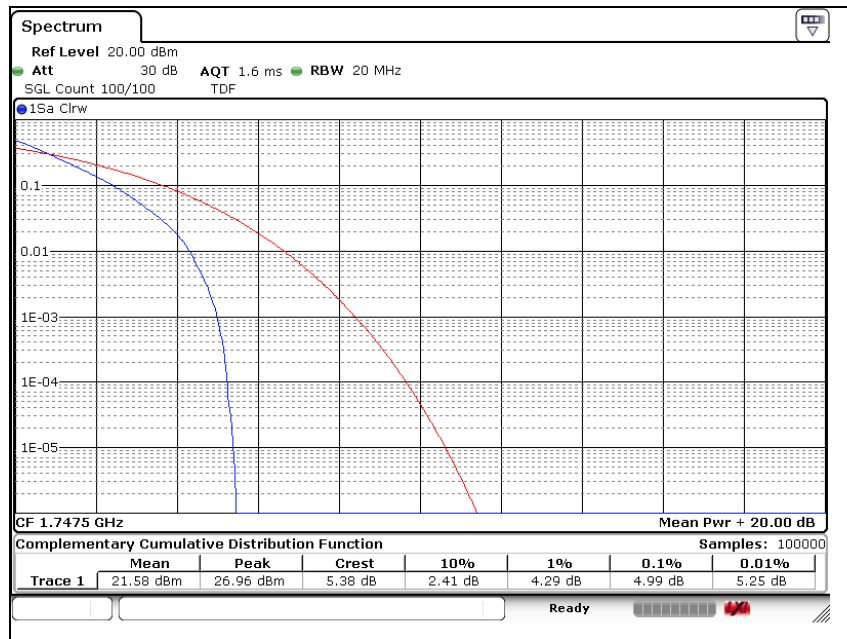


Middle Channel



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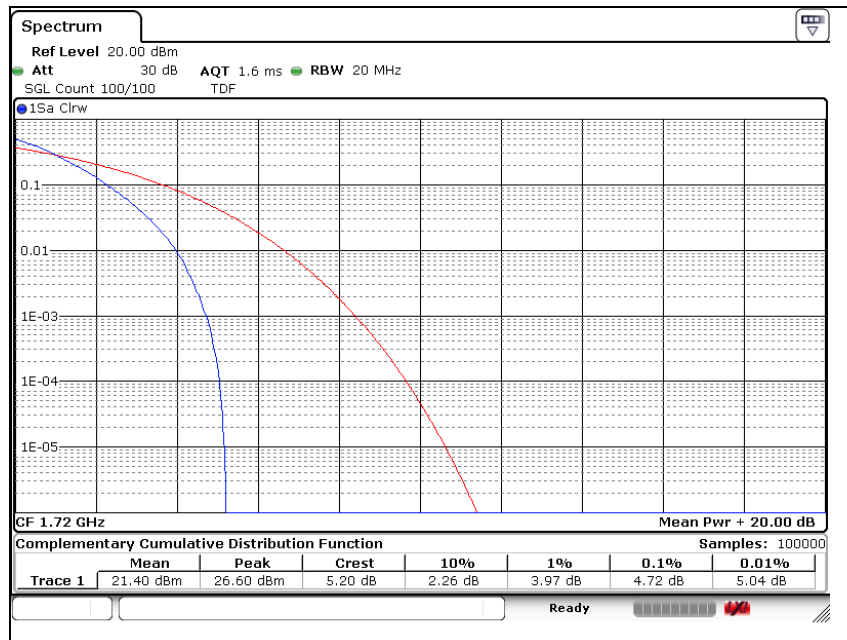
High Channel



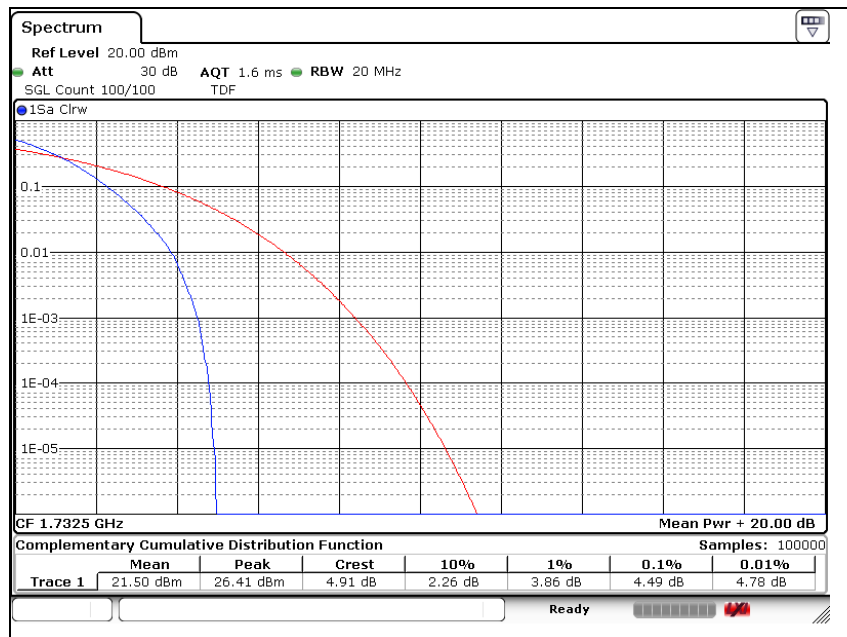
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LTE band 4 (20 MHz - QPSK)

Low Channel

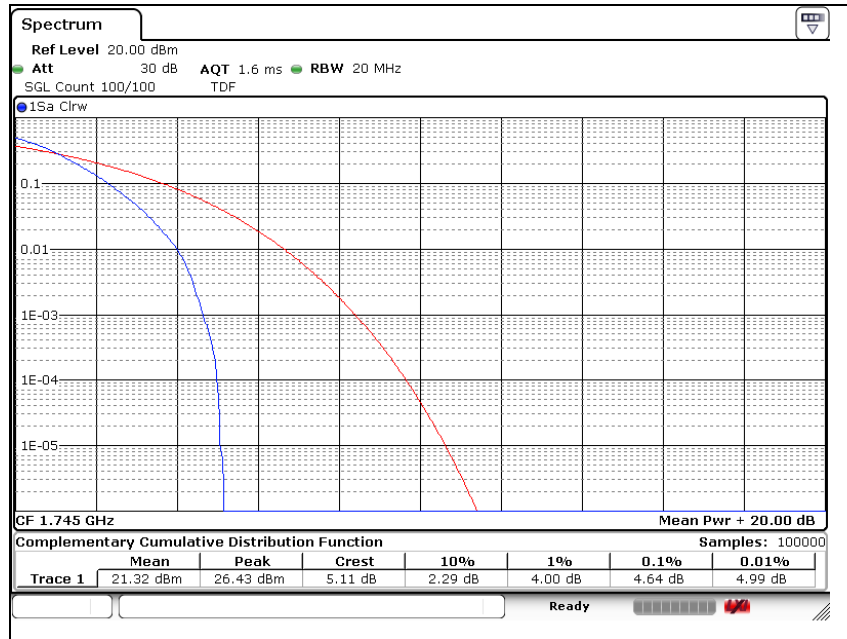


Middle Channel



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High Channel



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LTE band 5 (1.4 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 5 (3 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 5 (5 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 5 (10 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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LTE band 12 (1.4 MHz - QPSK)

Low Channel



Middle Channel



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High Channel



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