

FCC Test Report

ANNEX 4 LTE BAND 4

FCC ID: 2A6DV-HPAD

Applicant:	CHINA HAINERGY NEW ENERGY CORP., LTD
Address:	Unit 1908, 19/F., Harbour Centre, 25 Harbour Road, Wan Chai, Hong Kong, China.
Manufacturer:	CHINA HAINERGY NEW ENERGY CORP., LTD
Address:	Unit 1908, 19/F., Harbour Centre, 25 Harbour Road, Wan Chai, Hong Kong, China.
EUT:	Tablet
Trade Mark:	Haitech
Model Number:	HPAD-M2
Date of Receipt:	Apr. 13, 2022
Test Date:	Apr. 13, 2022 – Apr. 22, 2022
Date of Report:	Apr. 22, 2022
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China
Applicable Standards:	FCC CFR Title 47 Part22 Subpart H FCC CFR Title 47 Part24 Subpart E FCC CFR Title 47 Part27 ANSI/TIA-603-E-2016 FCC KDB 971168 D01 Power Meas. License Digital Systems v03v01 ANSI C63.26:2015
Test Result:	Pass

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1. EMISSION TEST RESULTS

1.1. -26dB and 99% Occupied Bandwidth

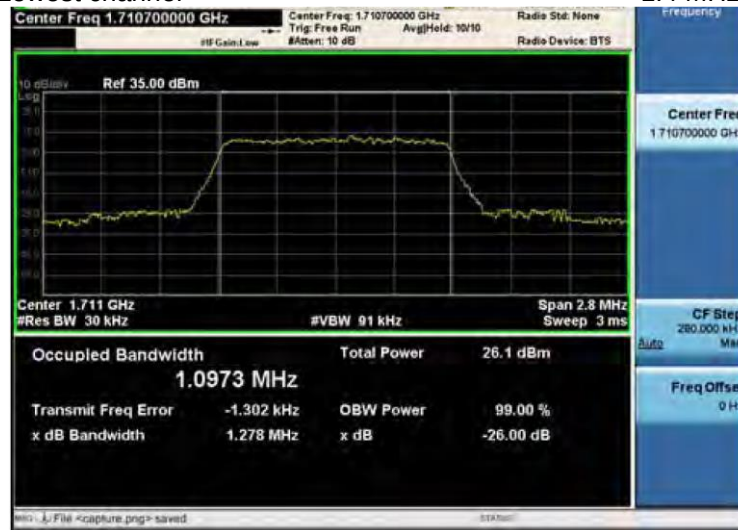
1.1.1. Test Result

EUT Mode Bandwidth	Modulation	Frequency (MHz)	99% Occupy bandwidth (MHz)	-26dB bandwidth (MHz)
LTE Band 4 1.4MHz	QPSK	1710.7	1.10	1.28
		1732.5	1.10	1.28
		1754.3	1.10	1.27
LTE Band 4 1.4 MHz	16-QAM	1710.7	1.10	1.28
		1732.5	1.10	1.28
		1754.3	1.10	1.28
LTE Band 4 3 MHz	QPSK	1711.5	2.69	2.96
		1732.5	2.69	2.95
		1753.5	2.66	2.91
LTE Band 4 3 MHz	16-QAM	1711.5	2.69	2.98
		1732.5	2.69	2.98
		1753.5	2.69	2.97
LTE Band 4 5 MHz	QPSK	1712.5	4.50	4.93
		1732.5	4.50	4.94
		1752.5	4.50	4.93
LTE Band 4 5 MHz	16-QAM	1712.5	4.50	4.94
		1732.5	4.51	4.92
		1752.5	4.50	4.93
LTE Band 4 10 MHz	QPSK	1715	8.99	9.71
		1732.5	9.01	9.76
		1750	8.98	9.74
LTE Band 4 10 MHz	16-QAM	1715	8.96	9.66
		1732.5	8.96	9.72
		1750	8.96	9.65
LTE Band 4 15 MHz	QPSK	1717.5	13.45	14.63
		1732.5	13.46	14.61
		1747.5	13.46	14.56
LTE Band 4 15 MHz	16-QAM	1717.5	13.45	14.61
		1732.5	13.48	14.62
		1747.5	13.44	14.56
LTE Band 4 20 MHz	QPSK	1720	17.93	19.43
		1732.5	17.95	19.39
		1745	17.91	19.30
LTE Band 4 20 MHz	16-QAM	1720	17.93	19.33
		1732.5	17.98	19.46
		1745	17.96	19.38

Note: Measurement Uncertainty: $\pm 20\text{Hz}$.

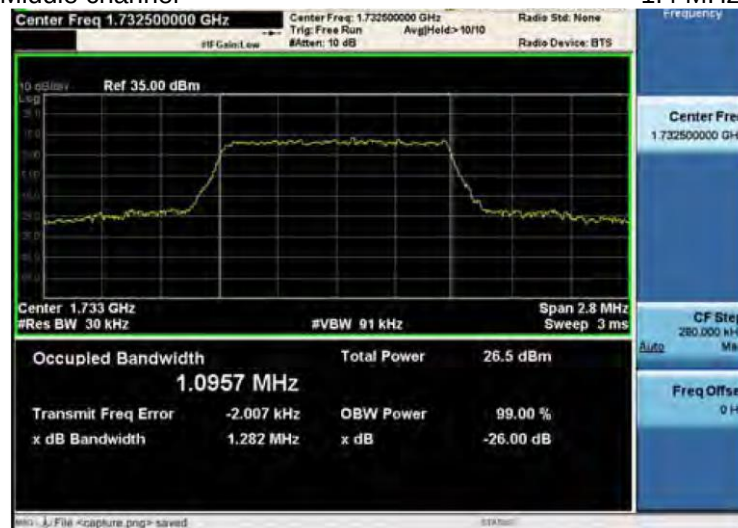
LTE Band 4 Lowest channel

1.4 MHz QPSK



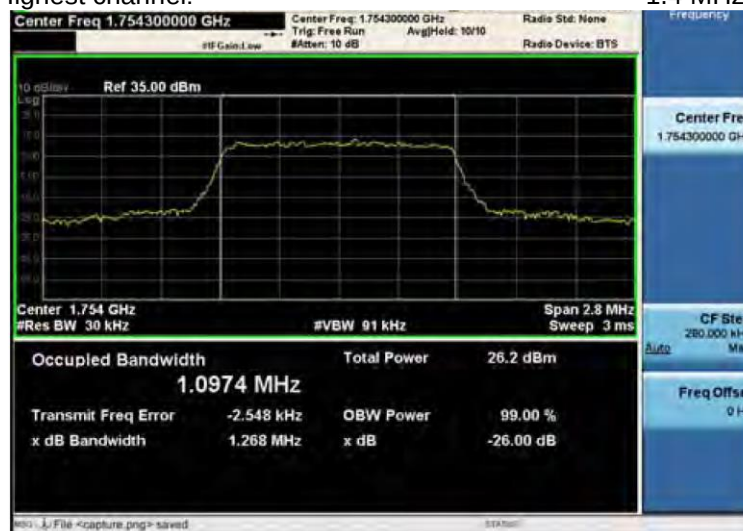
LTE Band 4 Middle channel

1.4 MHz QPSK



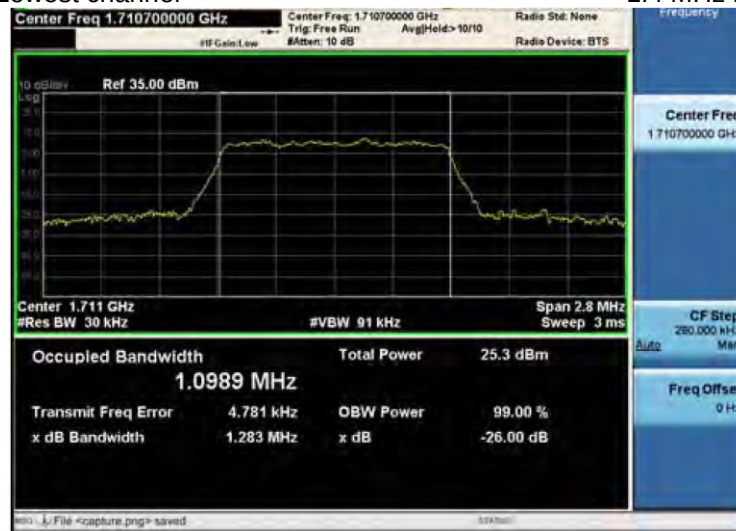
LTE Band 4 Highest channel:

1.4 MHz QPSK



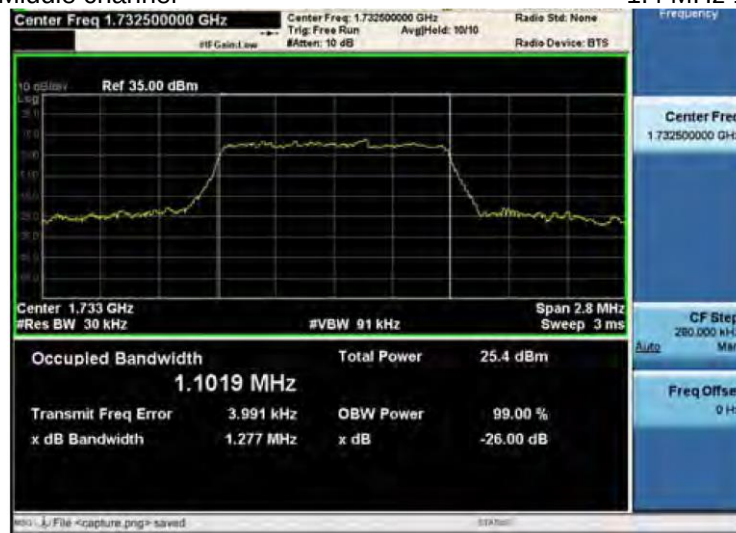
LTE Band 4 Lowest channel

1.4 MHz 16-QAM



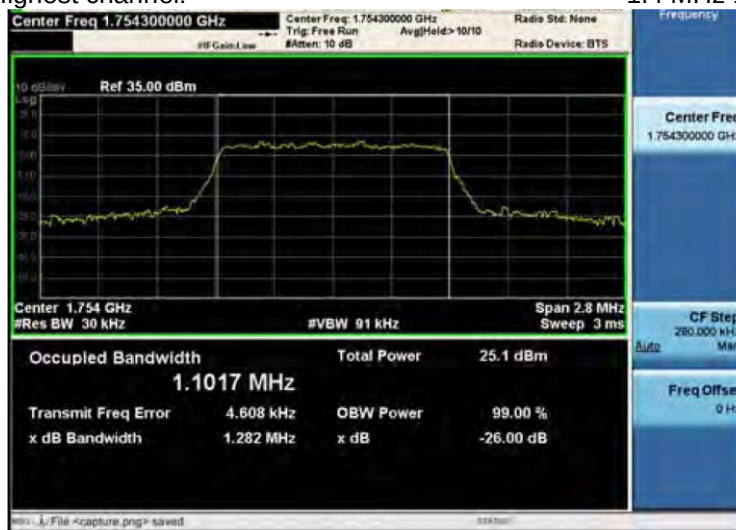
LTE Band 4 Middle channel

1.4 MHz 16-QAM



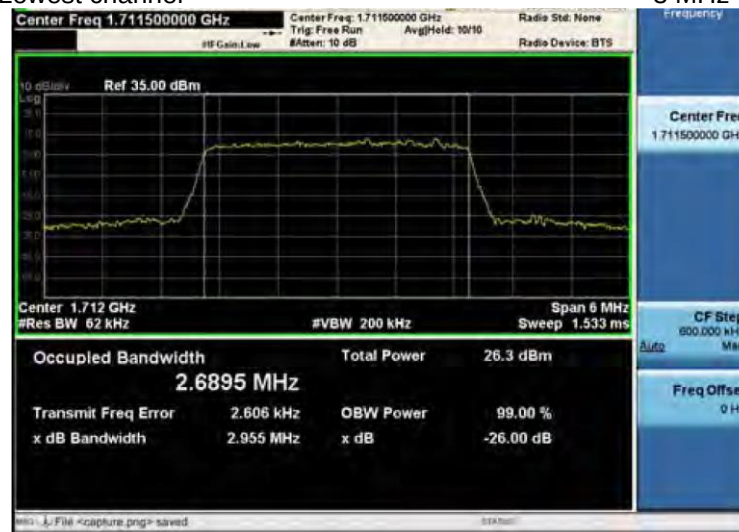
LTE Band 4 Highest channel:

1.4 MHz 16-QAM



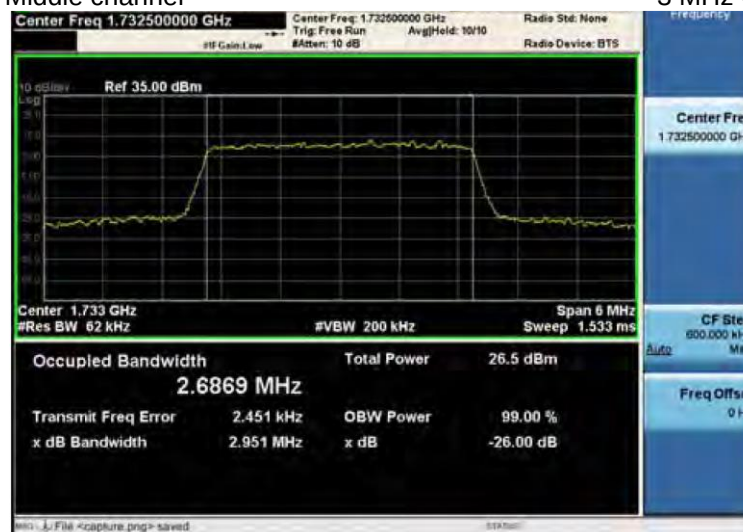
LTE Band 4 Lowest channel

3 MHz QPSK



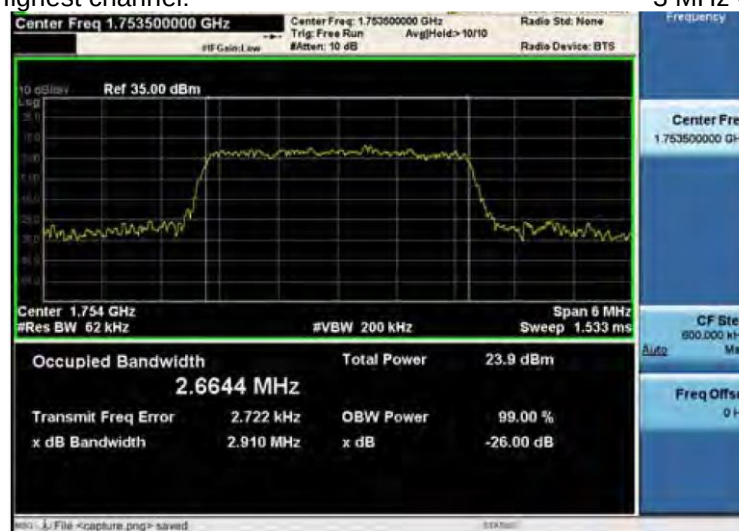
LTE Band 4 Middle channel

3 MHz QPSK



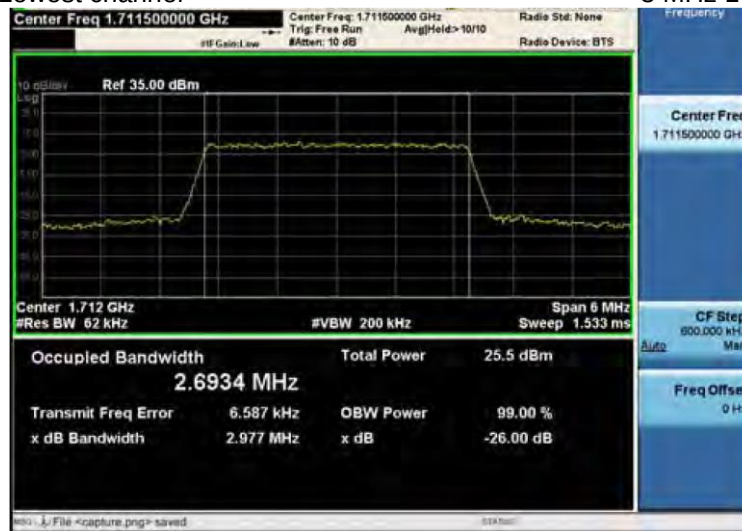
LTE Band 4 Highest channel:

3 MHz QPSK



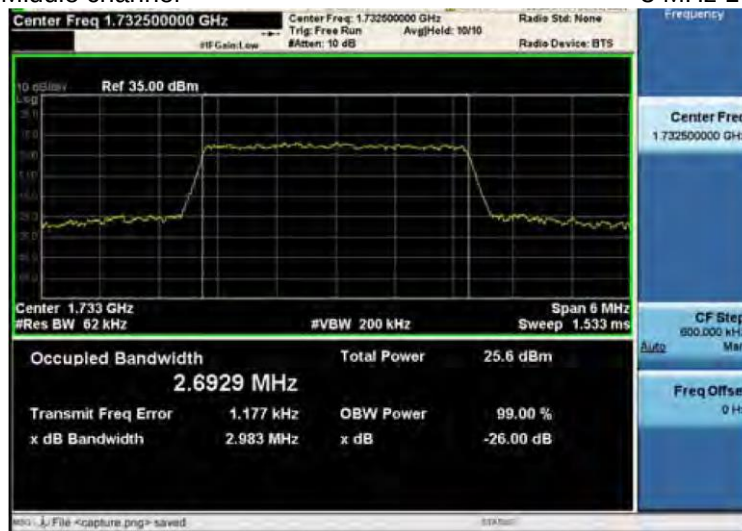
LTE Band 4 Lowest channel

3 MHz 16-QAM



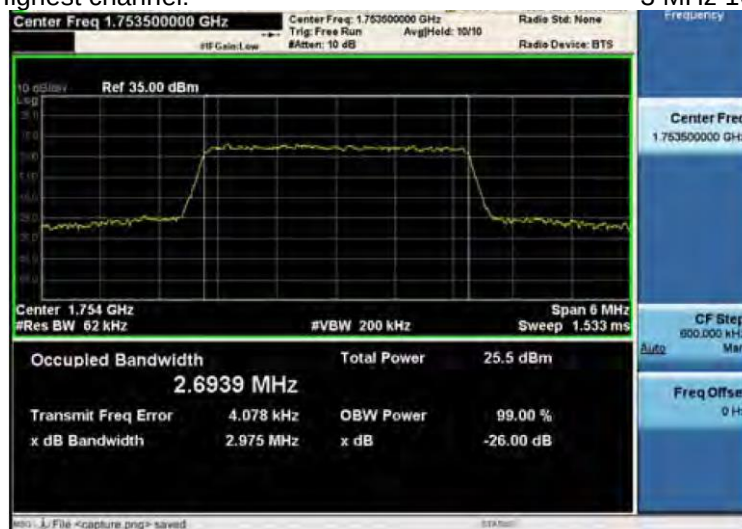
LTE Band 4 Middle channel

3 MHz 16-QAM



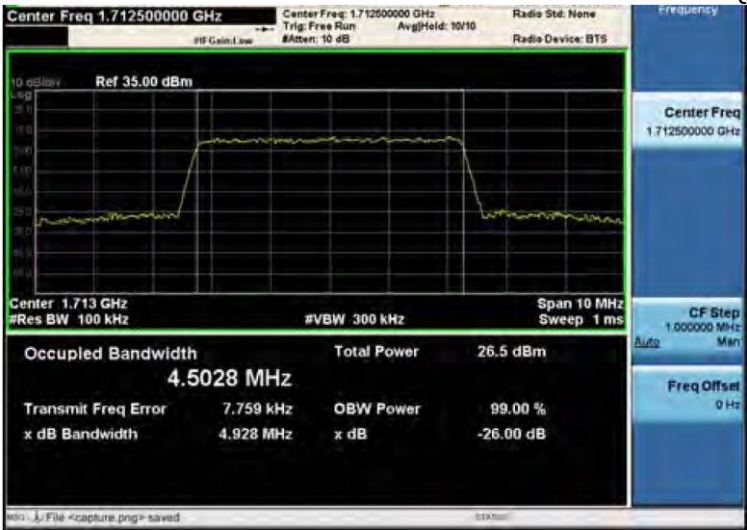
LTE Band 4 Highest channel:

3 MHz 16-QAM



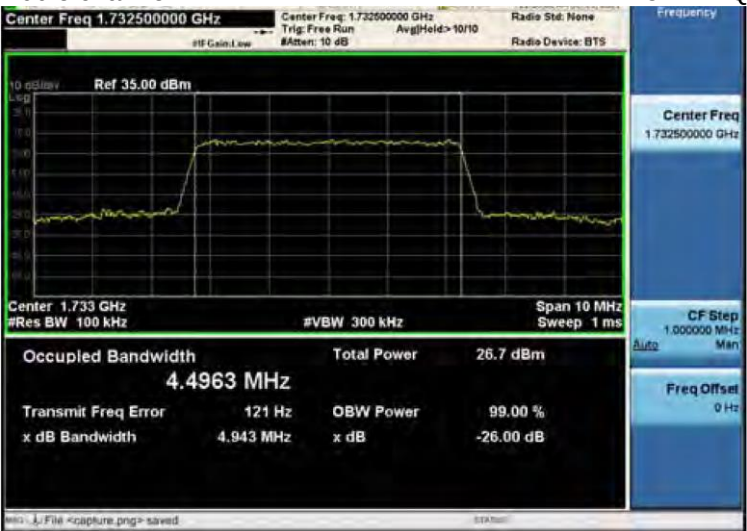
LTE Band 4 Lowest channel

5 MHz QPSK



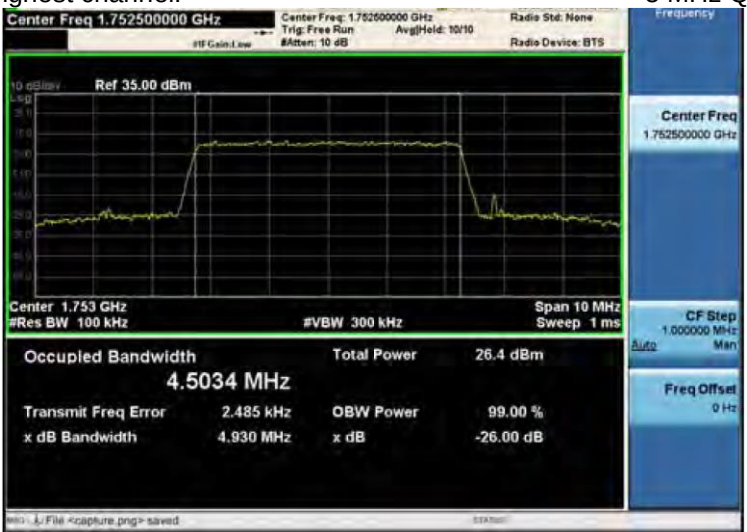
LTE Band 4 Middle channel

5 MHz QPSK



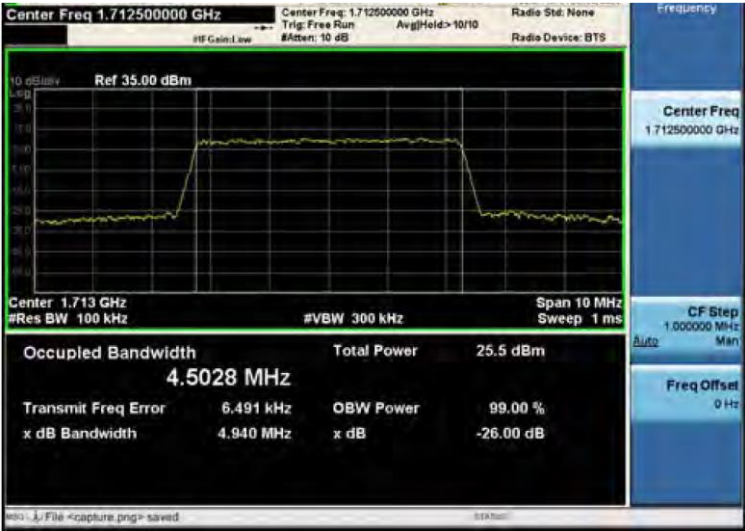
LTE Band 4 Highest channel:

5 MHz QPSK



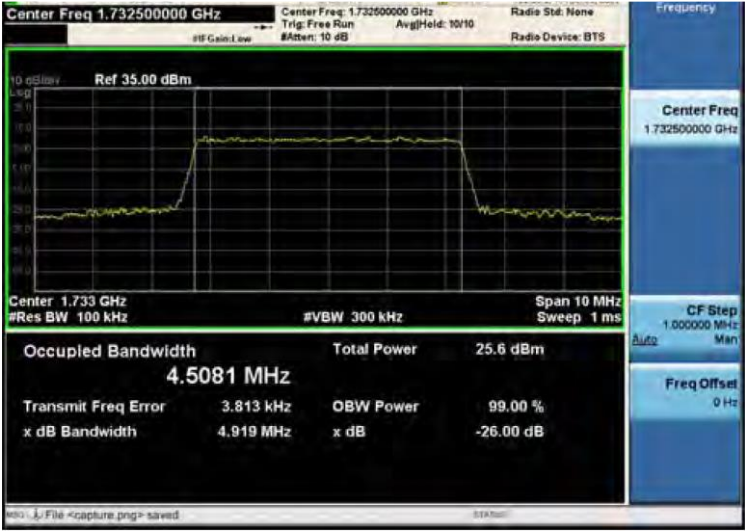
LTE Band 4 Lowest channel

5 MHz 16-QAM



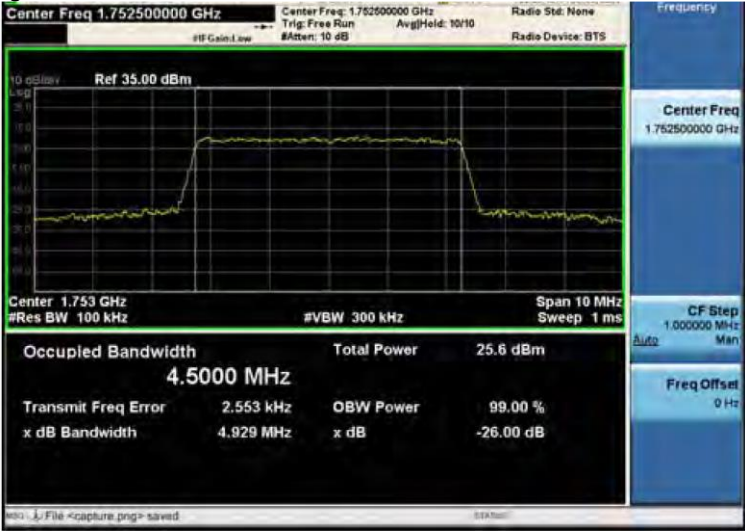
LTE Band 4 Middle channel

5 MHz 16-QAM



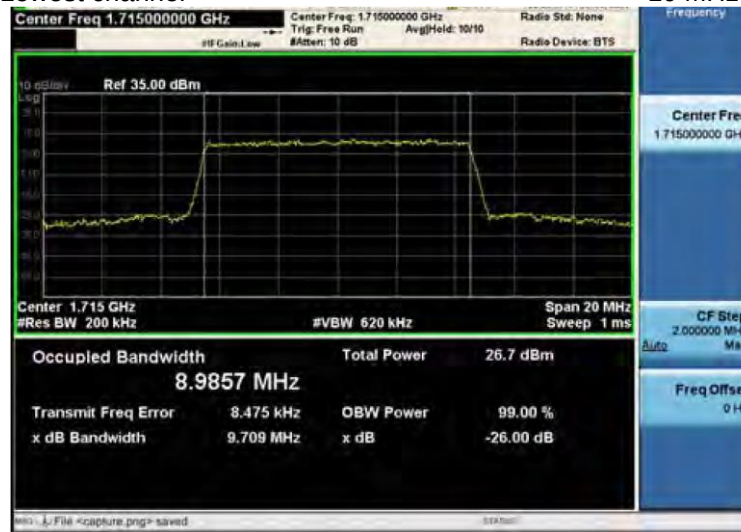
LTE Band 4 Highest channel:

5 MHz 16-QAM



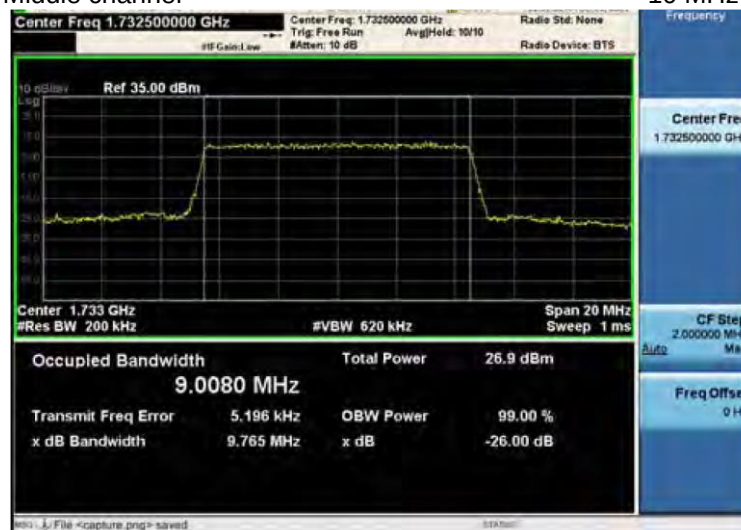
LTE Band 4 Lowest channel

10 MHz QPSK



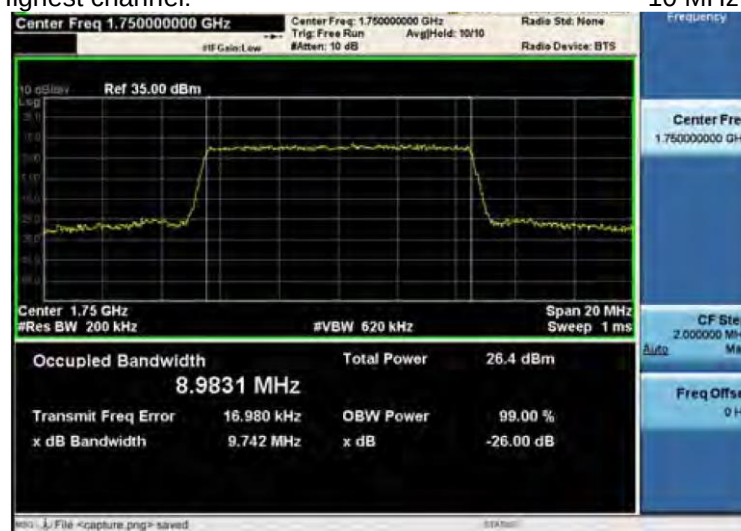
LTE Band 4 Middle channel

10 MHz QPSK



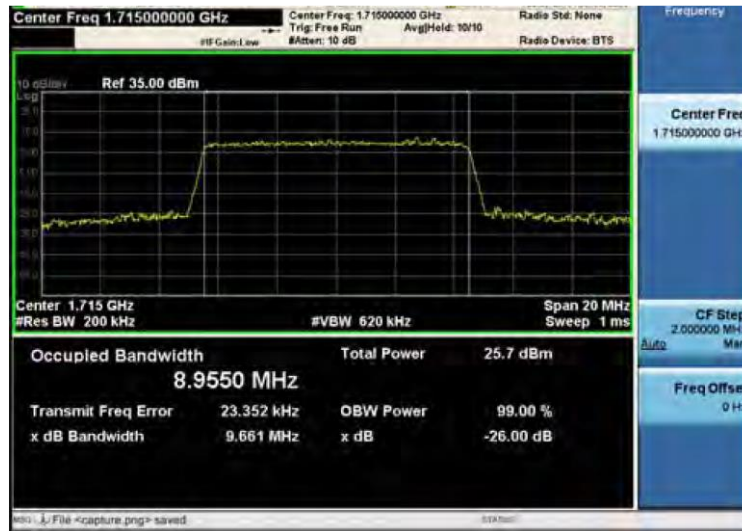
LTE Band 4 Highest channel:

10 MHz QPSK



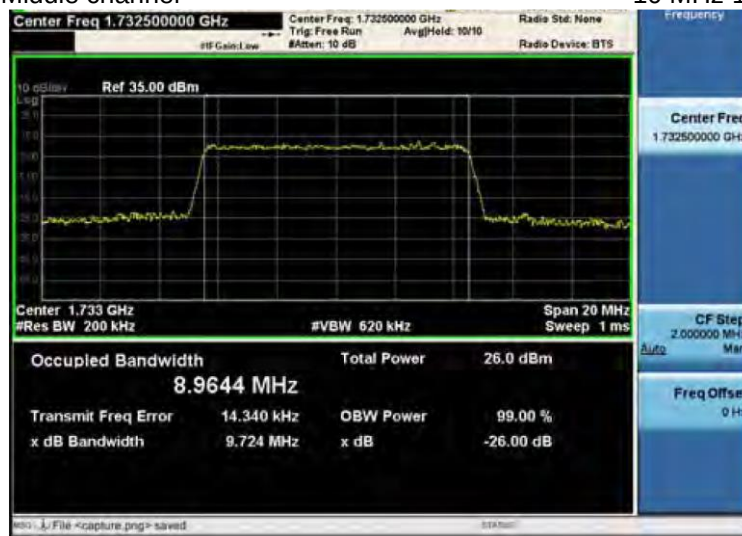
LTE Band 4 Lowest channel

10 MHz 16-QAM



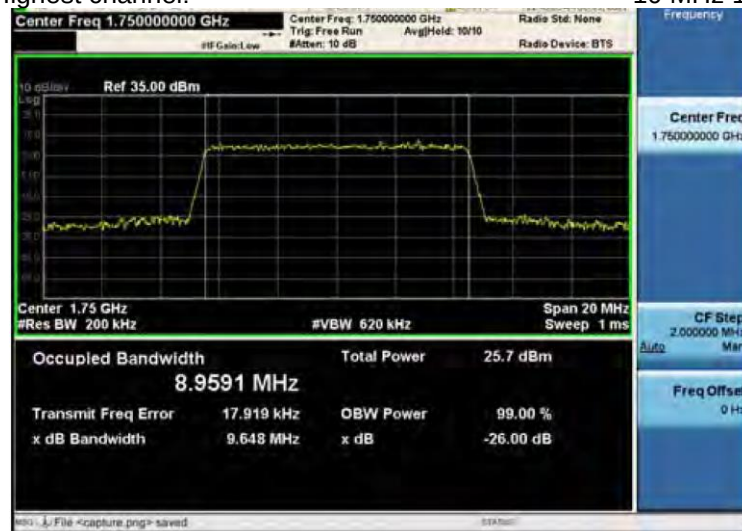
LTE Band 4 Middle channel

10 MHz 16-QAM

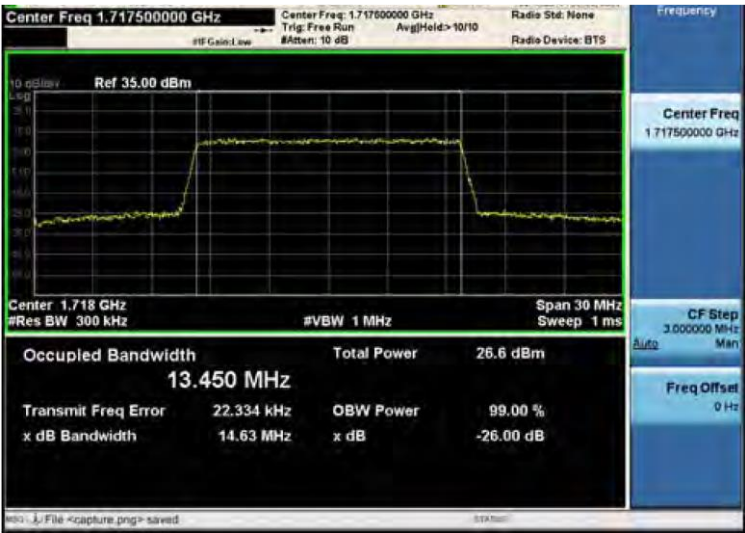


LTE Band 4 Highest channel:

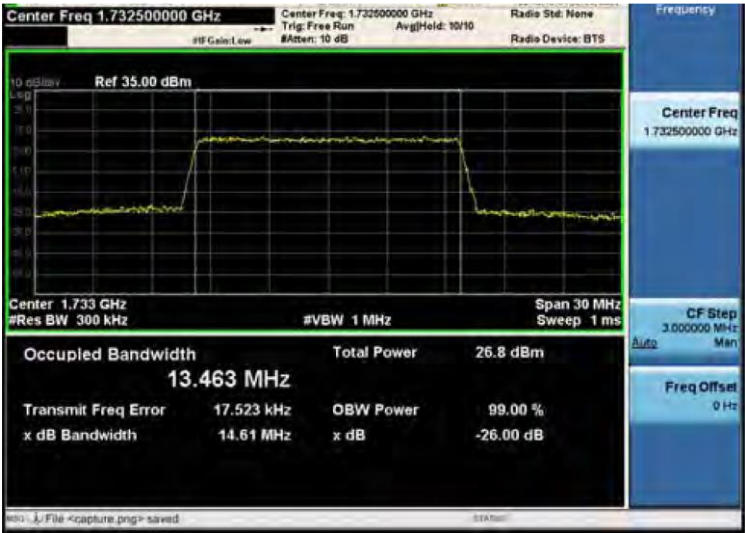
10 MHz 16-QAM



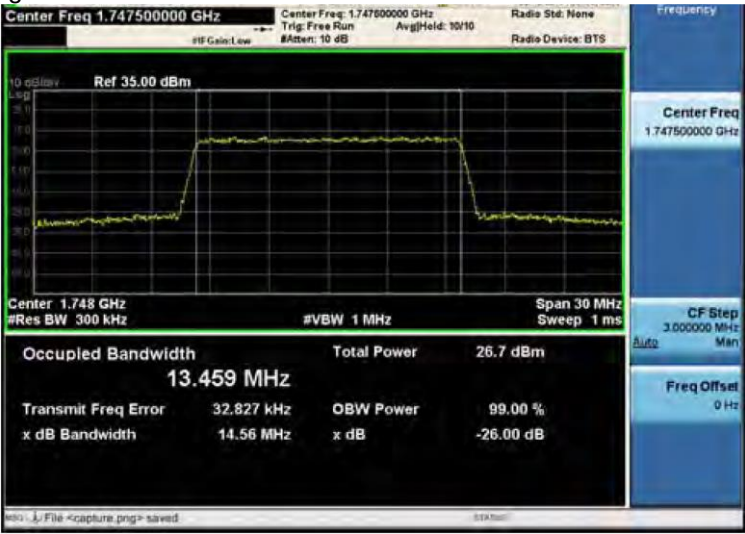
LTE Band 4 Lowest channel 15 MHz QPSK



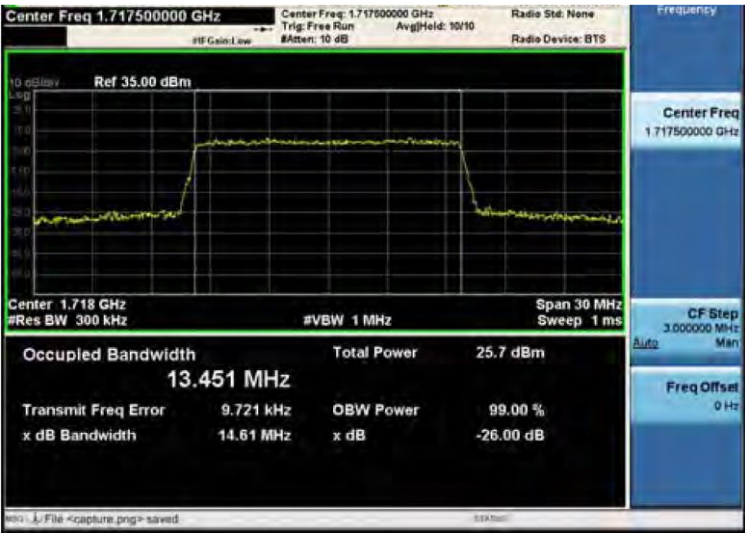
LTE Band 4 Middle channel 15 MHz QPSK



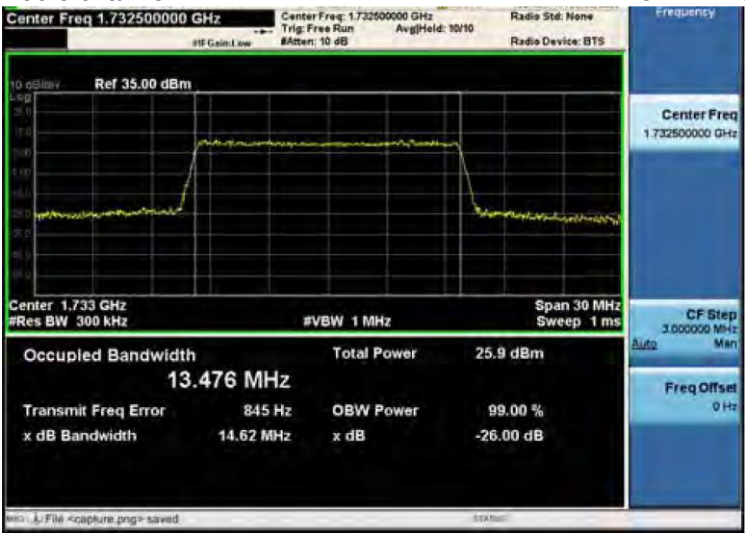
LTE Band 4 Highest channel: 15 MHz QPSK



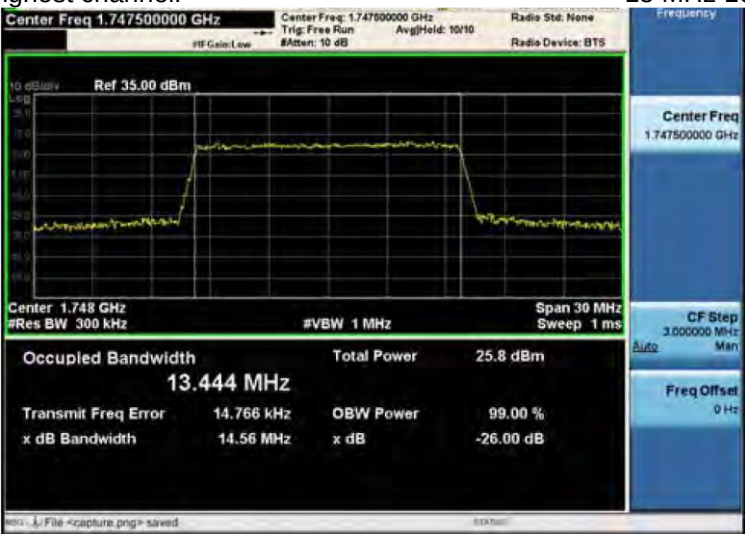
LTE Band 4 Lowest channel 15 MHz 16-QAM



LTE Band 4 Middle channel 15 MHz 16-QAM

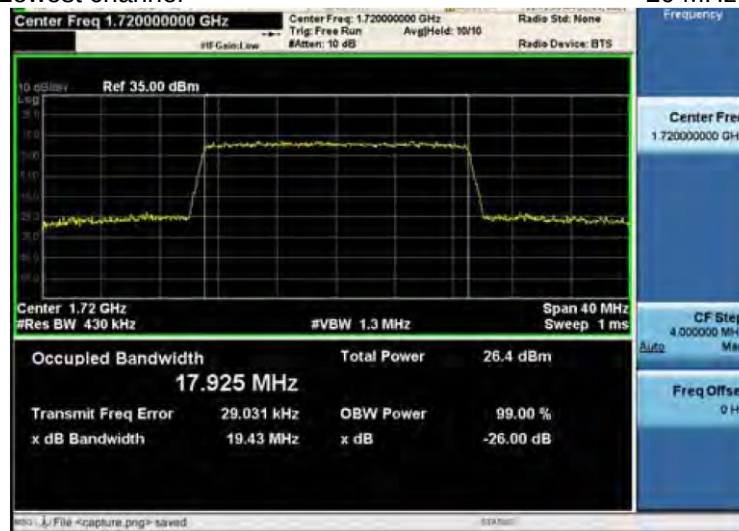


LTE Band 4 Highest channel: 15 MHz 16-QAM



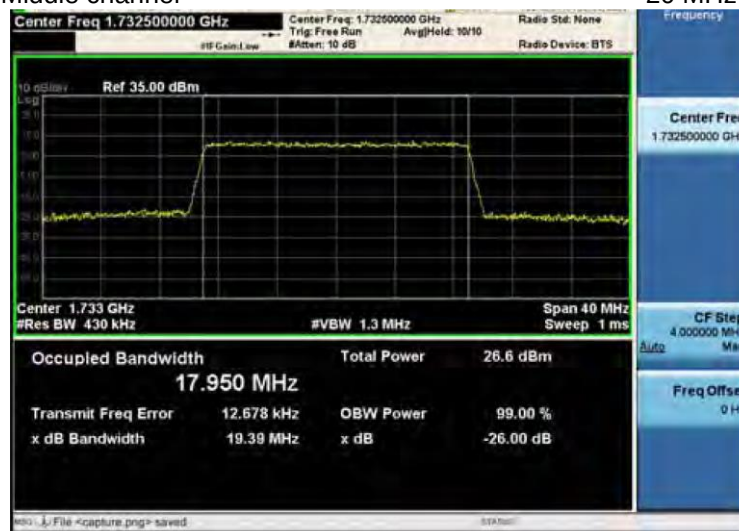
LTE Band 4 Lowest channel

20 MHz QPSK



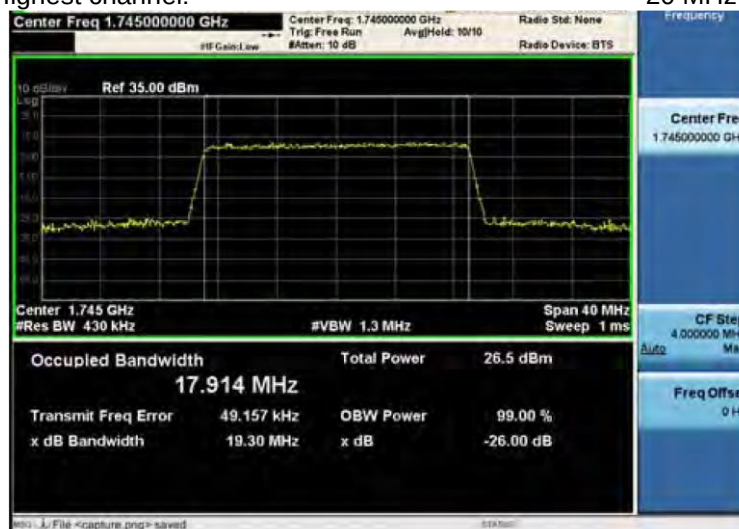
LTE Band 4 Middle channel

20 MHz QPSK

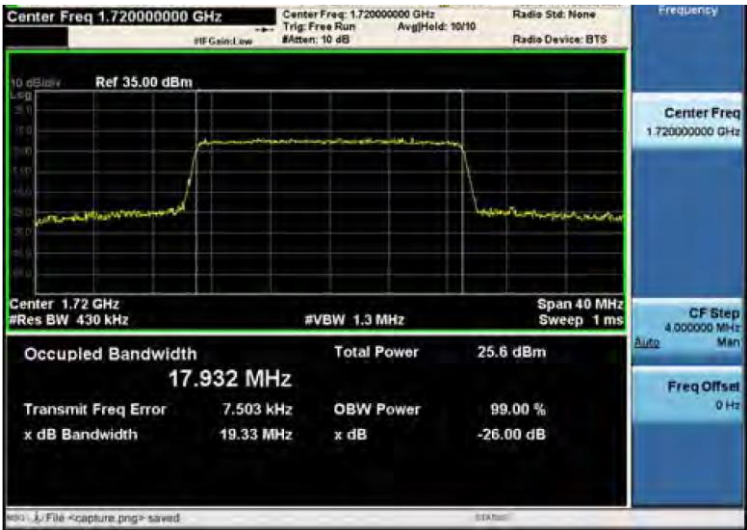


LTE Band 4 Highest channel:

20 MHz QPSK



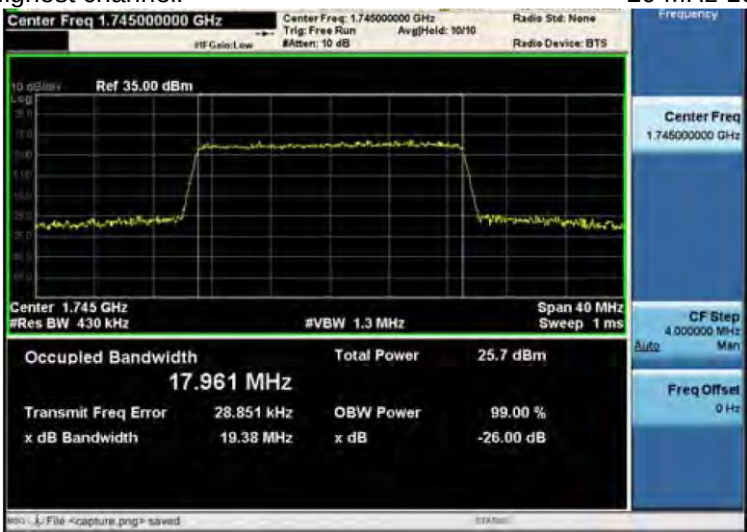
LTE Band 4 Lowest channel 20 MHz 16-QAM



LTE Band 4 Middle channel 20 MHz 16-QAM



LTE Band 4 Highest channel: 20 MHz 16-QAM



1.2. Conducted Spurious Emissions

1.2.1. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

For LTE mode, the plot only show the QPSK,RB100's data.

Pass, the table and plot please see annex.

LTE Band 4 Lowest channel

1.4MHz



LTE Band 4 middle channel

1.4MHz



LTE Band 4 high channel

1.4MHz



LTE Band 4 Lowest channel

3MHz



LTE Band 4 middle channel

3MHz



LTE Band 4 high channel

3MHz



LTE Band 4 Lowest channel

5MHz



LTE Band 4 middle channel

5MHz



LTE Band 4 high channel

5MHz



LTE Band 4 Lowest channel

10MHz



LTE Band 4 middle channel

10MHz



LTE Band 4 high channel

10MHz



LTE Band 4 Lowest channel

15MHz



LTE Band 4 middle channel

15MHz

