

RF TEST REPORT



Report No.: 17070365-FCC-R5

Supersede Report No.: N/A

Applicant	TECNO MOBILE LIMITED	
Product Name	Mobile phone	
Model No.	WX3F LTE	
Serial No.	N/A	
Test Standard	FCC Part 22(H):2016, FCC Part 24(E):2016, FCC Part 27: 2016; ANSI/TIA-603-D: 2010	
Test Date	May 17 to May 30, 2017	
Issue Date	May 31, 2017	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification <input checked="" type="checkbox"/>		
Equipment did not comply with the specification <input type="checkbox"/>		
Loren Luo	David Huang	
Loren Luo Test Engineer	David Huang Checked By	
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Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park



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South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China 518108

Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn

Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



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Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070365-FCC-R5	NONE	Original	May 31, 2017

2. Customer information

Applicant Name	TECNO MOBILE LIMITED
Applicant Add	ROOMS 05-15, 13A/F., SOUTH TOWER,WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Manufacturer Add	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian District, Shenzhen,Guangdong,China

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone
Main Model:	WX3F LTE
Serial Model:	N/A
Date EUT received:	May 16, 2017
Test Date(s):	May 17 to May 30, 2017
Equipment Category :	PCE
Antenna Gain:	GSM850: -0.22dBi PCS1900: 1.9dBi UMTS-FDD Band V: -0.22dBi UMTS-FDD Band II: 1.9dBi LTE Band II: 1.9dBi LTE Band IV: 2dBi LTE Band VII: 1dBi WIFI: 0.5dBi Bluetooth/BLE: 0.5dBi GPS: 1.9dBi
Antenna Type:	PIFA antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK LTE Band: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK GPS:BPSK
RF Operating Frequency (ies):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;

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RX: 1932.4 ~ 1987.6 MHz

LTE Band II TX: 1850.7~ 1909.3 MHz; RX : 1930.7 ~ 1989.3 MHz

LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7 ~ 2154.3 MHz

LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz

WIFI: 802.11b/g/n(20M): 2412-2462 MHz

WIFI: 802.11n(40M): 2422-2452 MHz

Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz

Maximum Conducted
AV Power to Antenna:

LTE band II: 23.18 dBm

ERP/EIRP:

LTE band IV: 23.12 dBm

LTE band VII: 22.89 dBm

LTE band II: 25.08 dBm / EIRP

LTE band IV: 25.12 dBm / EIRP

LTE band VII: 23.89 dBm / EIRP

Port: USB Port, Earphone Port

Adapter:

Model: A8-501000

Input: AC100-240V~50/60Hz,200mA

Input Power:

Output: DC 5.0V,1.0A

Battery:

Model: BL-23CT

Spec : 3.8V,2300mAh,8.74Wh

Maximum chargeable voltage: 4.35V

Trade Name :

TECNO

GPRS/EGPRS Multi-slot class

8/10/12

FCC ID:

2ADYY-WX3FLTE

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§ 1.1307; § 2.1093	RF Exposure (SAR)	Compliance
§2.1046; § 22.913(a); § 24.232(c); § 27.50(c.10); § 27.50(d.4)	RF Output Power	Compliance
§ 24.232 (d); § 27.50(d)	Peak-Average Ratio	Compliance
§ 2.1049; § 22.905; § 22.917; § 24.238; § 27.53(a.5)	99% & -26 dB Occupied Bandwidth	Compliance
§ 2.1051; § 22.917(a); § 24.238(a); § 27.53(h)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053; § 22.917(a); § 24.238(a); § 27.53(h)	Field Strength of Spurious Radiation	Compliance
§ 22.917(a); § 24.238(a);	Out of band emission, Band Edge	Compliance
§ 27.53(m)	Band Edge 27.53(m)	Compliance
§ 2.1055; § 22.355; § 24.235; § 27.5(h); § 27.54	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

6.1 RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation;

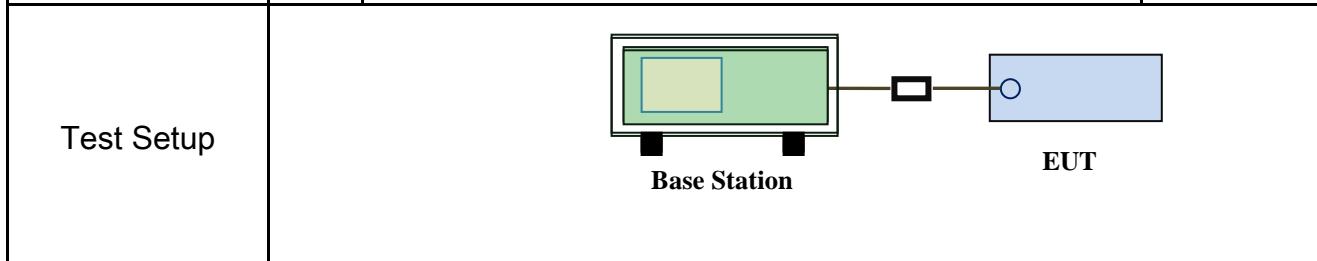
Please refer to RF Exposure Evaluation Report: 17070365-FCC-H.

6.2 RF Output Power

Temperature	24 °C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	May 23, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§22.913 (a)	a)	ERP:38.45dBm	<input checked="" type="checkbox"/>
§24.232 (c)	b)	EIRP:33dBm	<input checked="" type="checkbox"/>
§27.50 (c)	c)	EIRP: 30dBm	<input checked="" type="checkbox"/>



Test Procedure	<p>For Conducted Power:</p> <ul style="list-style-type: none"> - The transmitter output port was connected to base station. - Set EUT at maximum power through base station. - Select lowest, middle, and highest channels for each band and different test mode. <p>For ERP/EIRP:</p> <ul style="list-style-type: none"> - The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. - The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis. - The frequency range up to tenth harmonic of the fundamental frequency was investigated.

	<ul style="list-style-type: none"> - Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution. - Spurious emissions in dB = $10 \log (\text{TX power in Watts}/0.001)$ – the absolute level - Spurious attenuation limit in dB = $43 + 10 \log_{10} (\text{power out in Watts})$.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Conducted Power

LTE Band II:

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
18700	1860.0	1860.0	QPSK	1	0	0	22.95	22.5±1
				1	49	0	22.93	22.5±1
				1	99	0	22.95	22.5±1
				50	0	1	22.02	22.5±1
				50	24	1	22.09	22.5±1
				50	49	1	22.1	22.5±1
				100	0	1	22.06	22.5±1
		1880.0	16QAM	1	0	1	22.4	21.8±1
				1	49	1	22.36	21.8±1
				1	99	1	22.3	21.8±1
				50	0	2	21.06	21.8±1
				50	24	2	21.02	21.8±1
				50	49	2	21.04	21.8±1
				100	0	2	21.08	21.8±1
20MHz	18900	1880.0	QPSK	1	0	0	23.16	22.5±1
				1	49	0	23.11	22.5±1
				1	99	0	23.17	22.5±1
				50	0	1	22.09	22.5±1
				50	24	1	22.04	22.5±1
				50	49	1	22.07	22.5±1
				100	0	1	22.04	22.5±1
		1900.0	16QAM	1	0	1	22.06	21.5±1
				1	49	1	22.03	21.5±1
				1	99	1	22.04	21.5±1
				50	0	2	20.96	21.5±1
				50	24	2	20.92	21.5±1
				50	49	2	20.99	21.5±1
				100	0	2	21.05	21.5±1
19100	1900.0	QPSK	1	0	0	23.03	22.5±1	
			1	49	0	23	22.5±1	
			1	99	0	22.93	22.5±1	
			50	0	1	22.1	22.5±1	
			50	24	1	22.13	22.5±1	

				50	49	1	22.18	22.5±1
				100	0	1	22.08	22.5±1
16QAM	16QAM	16QAM	16QAM	1	0	1	22.35	21.8±1
				1	49	1	22.29	21.8±1
				1	99	1	22.3	21.8±1
				50	0	2	21.06	21.8±1
				50	24	2	21.09	21.8±1
				50	49	2	21.04	21.8±1
				100	0	2	21.1	21.8±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
15MHz	18675	1857.5	QPSK	1	0	0	22.93	22.5±1
				1	37	0	22.91	22.5±1
				1	74	0	22.85	22.5±1
				36	0	1	22.07	22.5±1
				36	16	1	22.06	22.5±1
				36	35	1	22.09	22.5±1
				75	0	1	22.11	22.5±1
	18900	1880.0	16QAM	1	0	1	22.5	21.8±1
				1	37	1	22.45	21.8±1
				1	74	1	22.44	21.8±1
				36	0	2	21.1	21.8±1
				36	16	2	21.08	21.8±1
				36	35	2	21.07	21.8±1
				75	0	2	21.12	21.8±1
	QPSK	QPSK	QPSK	1	0	0	23.17	22.5±1
				1	37	0	23.12	22.5±1
				1	74	0	23.15	22.5±1
				36	0	1	22.15	22.5±1
				36	16	1	22.11	22.5±1
				36	35	1	22.13	22.5±1
				75	0	1	22.15	22.5±1
	16QAM	16QAM	16QAM	1	0	1	21.98	21.5±1
				1	37	1	21.93	21.5±1
				1	74	1	21.96	21.5±1
				36	0	2	21.05	21.5±1
				36	16	2	21.04	21.5±1

	19125	1902.5	QPSK	36	35	2	21.11	21.5±1
				75	0	2	21.12	21.5±1
				1	0	0	23.03	22.5±1
				1	37	0	23.01	22.5±1
				1	74	0	23.04	22.5±1
				36	0	1	22.1	22.5±1
				36	16	1	22.09	22.5±1
				36	35	1	22.05	22.5±1
			16QAM	75	0	1	22.17	22.5±1
				1	0	1	22.34	21.8±1
				1	37	1	22.39	21.8±1
				1	74	1	22.33	21.8±1
				36	0	2	21.05	21.8±1
				36	16	2	21.03	21.8±1
				36	35	2	21.06	21.8±1
				75	0	2	21.12	21.8±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
10MHz	18650	1855	QPSK	1	0	0	22.98	22.5±1
				1	24	0	22.86	22.5±1
				1	49	0	22.91	22.5±1
				25	0	1	21.94	22.5±1
				25	12	1	21.9	22.5±1
				25	24	1	21.92	22.5±1
				50	0	1	21.98	22.5±1
	18900	1880.0	16QAM	1	0	1	21.93	21.5±1
				1	24	1	21.92	21.5±1
				1	49	1	21.89	21.5±1
				25	0	2	21	21.5±1
				25	12	2	21.13	21.5±1
				25	24	2	21.08	21.5±1
				50	0	2	21.02	21.5±1
			QPSK	1	0	0	23.05	22.5±1
				1	24	0	23.01	22.5±1

			16QAM	1	49	0	22.95	22.5±1
				25	0	1	22.06	22.5±1
				25	12	1	22.04	22.5±1
				25	24	1	22.03	22.5±1
				50	0	1	22.05	22.5±1
				1	0	1	22.59	21.8±1
				1	24	1	22.53	21.8±1
				1	49	1	22.42	21.8±1
				25	0	2	21.65	21.8±1
				25	12	2	21.63	21.8±1
				25	24	2	21.64	21.8±1
				50	0	2	21.09	21.8±1
19150	1905	QPSK	16QAM	1	0	0	23.17	22.5±1
				1	24	0	23.09	22.5±1
				1	49	0	23.11	22.5±1
				25	0	1	22.12	22.5±1
				25	12	1	22.1	22.5±1
				25	24	1	22.13	22.5±1
				50	0	1	22.09	22.5±1
			16QAM	1	0	1	21.94	21.5±1
				1	24	1	21.95	21.5±1
				1	49	1	21.98	21.5±1
				25	0	2	21.05	21.5±1
				25	12	2	21.03	21.5±1
				25	24	2	21.09	21.5±1
				50	0	2	21.1	21.5±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
18625	1852.5	18625	QPSK	1	0	0	22.98	22.3±1
				1	12	0	22.93	22.3±1
				1	24	0	22.86	22.3±1
				12	0	1	21.98	22.3±1
				12	6	1	21.9	22.3±1
				12	11	1	21.88	22.3±1
				25	0	1	21.94	22.3±1
		1852.5	16QAM	1	0	1	21.91	21.5±1
				1	12	1	21.87	21.5±1
				1	24	1	21.89	21.5±1
				12	0	2	21.1	21.5±1
				12	6	2	21.09	21.5±1
				12	11	2	21.11	21.5±1
				25	0	2	21.07	21.5±1
5MHz	18900	18900	QPSK	1	0	0	23.18	22.5±1
				1	12	0	23.12	22.5±1
				1	24	0	23.13	22.5±1
				12	0	1	22.1	22.5±1
				12	6	1	22.13	22.5±1
				12	11	1	22.12	22.5±1
				25	0	1	22.02	22.5±1
		1880.0	16QAM	1	0	1	22.13	21.5±1
				1	12	1	22.11	21.5±1
				1	24	1	22.08	21.5±1
				12	0	2	21.23	21.5±1
				12	6	2	21.25	21.5±1
				12	11	2	21.26	21.5±1
				25	0	2	21.03	21.5±1
19175	1907.5	1907.5	QPSK	1	0	0	23.13	22.5±1
				1	12	0	23.1	22.5±1
				1	24	0	23.04	22.5±1
				12	0	1	22.12	22.5±1
				12	6	1	22.09	22.5±1
				12	11	1	22.05	22.5±1
				25	0	1	22.05	22.5±1

				1	0	1	22.34	21.8±1
				1	12	1	22.33	21.8±1
				1	24	1	22.4	21.8±1
			16QAM	12	0	2	21.2	21.8±1
				12	6	2	21.22	21.8±1
				12	11	2	21.21	21.8±1
				25	0	2	21.03	21.8±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
3MHz	18625	1852.5	QPSK	1	0	0	22.71	22±1
				1	7	0	22.69	22±1
				1	14	0	22.6	22±1
				8	0	1	21.84	22±1
				8	4	1	21.86	22±1
				8	7	1	21.88	22±1
				15	0	1	21.89	22±1
	18900	1880.0	16QAM	1	0	1	22.33	21.5±1
				1	7	1	22.31	21.5±1
				1	14	1	22.29	21.5±1
				8	0	2	20.84	21.5±1
				8	4	2	20.83	21.5±1
				8	7	2	20.86	21.5±1
				15	0	2	21.02	21.5±1
	QPSK	16QAM	QPSK	1	0	0	23.05	22.5±1
				1	7	0	22.96	22.5±1
				1	14	0	22.91	22.5±1
				8	0	1	21.99	22.5±1
				8	4	1	21.95	22.5±1
				8	7	1	21.92	22.5±1
				15	0	1	22	22.5±1
			16QAM	1	0	1	21.85	21.5±1
				1	7	1	21.82	21.5±1
				1	14	1	21.87	21.5±1
				8	0	2	20.95	21.5±1
				8	4	2	20.93	21.5±1

	19175	1907.5	QPSK	8	7	2	20.92	21.5±1
				15	0	2	20.96	21.5±1
				1	0	0	23.1	22.5±1
				1	7	0	23.12	22.5±1
				1	14	0	23.08	22.5±1
				8	0	1	22.01	22.5±1
				8	4	1	22	22.5±1
				8	7	1	21.95	22.5±1
			16QAM	15	0	1	22.05	22.5±1
				1	0	1	22	21.5±1
				1	7	1	22.06	21.5±1
				1	14	1	21.94	21.5±1
				8	0	2	20.84	21.5±1
				8	4	2	20.86	21.5±1
				8	7	2	20.83	21.5±1
				15	0	2	21.06	21.5±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
1.4MHz	18607	1850.7	QPSK	1	0	0	22.79	22.5±1
				1	2	0	22.76	22.5±1
				1	5	0	22.74	22.5±1
				3	0	0	22.96	22.5±1
				3	1	0	22.92	22.5±1
				3	2	0	22.95	22.5±1
				6	0	1	21.84	22.5±1
			16QAM	1	0	1	21.45	21.3±1
				1	2	1	21.49	21.3±1
				1	5	1	21.41	21.3±1
				3	0	1	21.03	21.3±1
				3	1	1	21.11	21.3±1
				3	2	1	21.01	21.3±1
				6	0	2	20.77	21.3±1
	18900	1880.0	QPSK	1	0	0	22.96	22.5±1
				1	2	0	23.03	22.5±1
				1	5	0	22.99	22.5±1

				3	0	0	23.12	22.5±1
				3	1	0	23.11	22.5±1
				3	2	0	23.06	22.5±1
				6	0	1	21.99	22.5±1
			16QAM	1	0	1	21.61	21.3±1
				1	2	1	21.64	21.3±1
				1	5	1	21.63	21.3±1
				3	0	1	21.05	21.3±1
			QPSK	3	1	1	21.07	21.3±1
				3	2	1	21.06	21.3±1
				6	0	2	20.91	21.3±1
				1	0	0	23.13	22.5±1
			19193	1	2	0	23.09	22.5±1
				1	5	0	23.11	22.5±1
				3	0	0	23.15	22.5±1
				3	1	0	23.12	22.5±1
				3	2	0	23.13	22.5±1
				6	0	1	22.04	22.5±1
				1	0	1	21.9	21.5±1
			16QAM	1	2	1	21.88	21.5±1
				1	5	1	21.83	21.5±1
				3	0	1	21.06	21.5±1
				3	1	1	21.08	21.5±1
				3	2	1	21.04	21.5±1
				6	0	2	20.98	21.5±1

LTE band IV:

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
20MHz	20050	1720.0	QPSK	1	0	0	22.96	22.3±1
				1	49	0	22.92	22.3±1
				1	99	0	22.95	22.3±1
				50	0	1	21.94	22.3±1
				50	24	1	21.93	22.3±1
				50	49	1	21.97	22.3±1

			100	0	1	21.89	22.3±1
		16QAM	1	0	1	22.42	21.7±1
			1	49	1	22.48	21.7±1
			1	99	1	22.45	21.7±1
			50	0	2	21.43	21.7±1
			50	24	2	21.45	21.7±1
			50	49	2	21.44	21.7±1
			100	0	2	20.9	21.7±1
			1	0	0	22.93	22.3±1
	20175	QPSK	1	49	0	22.99	22.3±1
			1	99	0	22.95	22.3±1
			50	0	1	21.81	22.3±1
			50	24	1	21.84	22.3±1
			50	49	1	21.83	22.3±1
			100	0	1	21.77	22.3±1
			1	0	1	21.84	21.3±1
			1	49	1	21.89	21.3±1
	20300	16QAM	1	99	1	21.85	21.3±1
			50	0	2	21.03	21.3±1
			50	24	2	21.05	21.3±1
			50	49	2	21.04	21.3±1
			100	0	2	20.79	21.3±1
			1	0	0	22.63	22±1
			1	49	0	22.65	22±1
			1	99	0	22.6	22±1
	1745.0	QPSK	50	0	1	21.74	22±1
			50	24	1	21.76	22±1
			50	49	1	21.71	22±1
			100	0	1	21.69	22±1
			1	0	1	21.96	21.3±1
			1	49	1	21.91	21.3±1
			1	99	1	21.94	21.3±1
			50	0	2	21.06	21.3±1
	16QAM		50	24	2	21.04	21.3±1
			50	49	2	21.08	21.3±1
			100	0	2	20.71	21.3±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
20025	1717.5	QPSK	1	0	0	22.84	22.3±1	
			1	37	0	22.82	22.3±1	
			1	74	0	22.76	22.3±1	
			36	0	1	21.98	22.3±1	
			36	16	1	21.87	22.3±1	
			36	35	1	21.84	22.3±1	
			75	0	1	21.95	22.3±1	
		16QAM	1	0	1	22.54	21.8±1	
			1	37	1	22.52	21.8±1	
			1	74	1	22.5	21.8±1	
			36	0	2	21.53	21.8±1	
			36	16	2	21.56	21.8±1	
			36	35	2	21.51	21.8±1	
			75	0	2	20.98	21.8±1	
15MHz	2017.5	QPSK	1	0	0	22.88	22.3±1	
			1	37	0	22.88	22.3±1	
			1	74	0	22.83	22.3±1	
			36	0	1	21.81	22.3±1	
			36	16	1	21.84	22.3±1	
			36	35	1	21.83	22.3±1	
			75	0	1	21.82	22.3±1	
		16QAM	1	0	1	21.71	21.3±1	
			1	37	1	21.72	21.3±1	
			1	74	1	21.74	21.3±1	
			36	0	2	20.82	21.3±1	
			36	16	2	20.83	21.3±1	
			36	35	2	20.81	21.3±1	
			75	0	2	20.83	21.3±1	
20325	1747.5	QPSK	1	0	0	22.64	22±1	
			1	37	0	22.61	22±1	
			1	74	0	22.62	22±1	
			36	0	1	21.76	22±1	
			36	16	1	21.77	22±1	
			36	35	1	21.64	22±1	
			75	0	1	21.76	22±1	

			16QAM	1	0	1	21.97	21.3±1
				1	37	1	21.96	21.3±1
				1	74	1	21.93	21.3±1
				36	0	2	20.65	21.3±1
				36	16	2	20.63	21.3±1
				36	35	2	20.6	21.3±1
				75	0	2	20.7	21.3±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
10MHz	20000	1715.0	QPSK	1	0	0	22.9	22.5±1
				1	24	0	22.85	22.5±1
				1	49	0	22.89	22.5±1
				25	0	1	22	22.5±1
				25	12	1	22.01	22.5±1
				25	24	1	22.04	22.5±1
				50	0	1	21.93	22.5±1
	20175	1732.5	16QAM	1	0	1	22.56	21.7±1
				1	24	1	22.55	21.7±1
				1	49	1	22.52	21.7±1
				25	0	2	20.88	21.7±1
				25	12	2	20.86	21.7±1
				25	24	2	20.84	21.7±1
				50	0	2	20.96	21.7±1
	20000	1715.0	QPSK	1	0	0	22.86	22.3±1
				1	24	0	22.87	22.3±1
				1	49	0	22.82	22.3±1
				25	0	1	21.79	22.3±1
				25	12	1	21.73	22.3±1
				25	24	1	21.76	22.3±1
				50	0	1	21.77	22.3±1
	20175	1732.5	16QAM	1	0	1	21.69	21.3±1
				1	24	1	21.67	21.3±1
				1	49	1	21.7	21.3±1
				25	0	2	20.77	21.3±1
				25	12	2	20.74	21.3±1

	20350	1750.0	QPSK	25	24	2	20.75	21.3±1
				50	0	2	20.78	21.3±1
				1	0	0	22.75	22±1
				1	24	0	22.73	22±1
				1	49	0	22.7	22±1
			16QAM	25	0	1	21.69	22±1
				25	12	1	21.66	22±1
				25	24	1	21.67	22±1
				50	0	1	21.67	22±1
				1	0	1	21.69	21.3±1
				1	24	1	21.66	21.3±1
				1	49	1	21.68	21.3±1
				25	0	2	20.63	21.3±1
				25	12	2	20.62	21.3±1
				25	24	2	20.65	21.3±1
				50	0	2	20.7	21.3±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
5MHz	20000	1715.0	QPSK	1	0	0	23.06	22.5±1
				1	12	0	23.05	22.5±1
				1	24	0	23.02	22.5±1
				12	0	1	22.03	22.5±1
				12	6	1	22.02	22.5±1
				12	11	1	22.06	22.5±1
				25	0	1	21.96	22.5±1
	20175	1732.5	16QAM	1	0	1	22.01	21.5±1
				1	12	1	22.05	21.5±1
				1	24	1	22.01	21.5±1
				12	0	2	21.11	21.5±1
				12	6	2	21.1	21.5±1
				12	11	2	21.17	21.5±1
				25	0	2	21.15	21.5±1
	QPSK			1	0	0	22.91	22.3±1
				1	12	0	22.92	22.3±1
				1	24	0	22.95	22.3±1
				12	0	1	21.86	22.3±1
				12	6	1	21.86	22.3±1

			16QAM	12	11	1	21.83	22.3±1
				25	0	1	21.78	22.3±1
				1	0	1	21.95	21.3±1
				1	12	1	21.99	21.3±1
				1	24	1	21.92	21.3±1
				12	0	2	20.77	21.3±1
				12	6	2	20.79	21.3±1
				12	11	2	20.74	21.3±1
				25	0	2	20.79	21.3±1
				1	0	0	22.23	22±1
	20350	1750.0	QPSK	1	12	0	22.22	22±1
				1	24	0	22.15	22±1
				12	0	1	21.74	22±1
				12	6	1	21.72	22±1
				12	11	1	21.76	22±1
				25	0	1	21.7	22±1
				1	0	1	21.69	21.3±1
		16QAM		1	12	1	21.71	21.3±1
				1	24	1	21.73	21.3±1
				12	0	2	20.88	21.3±1
				12	6	2	20.8	21.3±1
				12	11	2	20.87	21.3±1
				25	0	2	20.85	21.3±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
3MHz	19965	1711.5	QPSK	1	0	0	22.78	22.3±1
				1	7	0	22.72	22.3±1
				1	14	0	22.7	22.3±1
				8	0	1	21.9	22.3±1
				8	4	1	21.93	22.3±1
				8	7	1	21.91	22.3±1
				15	0	1	21.96	22.3±1
			16QAM	1	0	1	22.52	21.8±1
				1	7	1	22.53	21.8±1
				1	14	1	22.55	21.8±1

	20175	1732.5	QPSK	8	0	2	20.97	21.8±1
				8	4	2	20.95	21.8±1
				8	7	2	20.94	21.8±1
				15	0	2	21.14	21.8±1
			16QAM	1	0	0	22.75	22.3±1
				1	7	0	22.7	22.3±1
				1	14	0	22.78	22.3±1
				8	0	1	21.7	22.3±1
		1753.5	QPSK	8	4	1	21.74	22.3±1
				8	7	1	21.77	22.3±1
				15	0	1	21.76	22.3±1
				1	0	1	21.61	21.3±1
			16QAM	1	7	1	21.67	21.3±1
				1	14	1	21.62	21.3±1
				8	0	2	20.69	21.3±1
				8	4	2	20.62	21.3±1
			QPSK	8	7	2	20.63	21.3±1
				15	0	2	20.75	21.3±1
				1	0	0	22.72	22±1
				1	7	0	22.76	22±1
			16QAM	1	14	0	22.72	22±1
				8	0	1	21.6	22±1
				8	4	1	21.63	22±1
				8	7	1	21.51	22±1
				15	0	1	21.67	22±1
				1	0	1	21.68	21.3±1
				1	7	1	21.61	21.3±1
				1	14	1	21.6	21.3±1
				8	0	2	20.49	21.3±1
				8	4	2	20.48	21.3±1
				8	7	2	20.42	21.3±1
				15	0	2	20.72	21.3±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
19957	1710.7	1710.7	QPSK	1	0	0	23.02	22.5±0
				1	2	0	23.01	22.5±0
				1	5	0	22.96	22.5±0
				3	0	0	23.12	22.5±0
				3	1	0	23.11	22.5±0
				3	2	0	23.06	22.5±0
				6	0	1	21.96	22.5±0
		1732.5	16QAM	1	0	1	21.87	21.3±1
				1	2	1	21.84	21.3±1
				1	5	1	21.82	21.3±1
				3	0	1	20.99	21.3±1
				3	1	1	20.93	21.3±1
				3	2	1	20.99	21.3±1
				6	0	2	20.97	21.3±1
1.4MHz	20175	1732.5	QPSK	1	0	0	22.71	22.3±1
				1	2	0	22.77	22.3±1
				1	5	0	22.73	22.3±1
				3	0	0	22.76	22.3±1
				3	1	0	22.73	22.3±1
				3	2	0	22.74	22.3±1
				6	0	1	21.76	22.3±1
		1754.3	16QAM	1	0	1	21.4	21.3±1
				1	2	1	21.35	21.3±1
				1	5	1	21.39	21.3±1
				3	0	1	20.7	21.3±1
				3	1	1	20.69	21.3±1
				3	2	1	20.66	21.3±1
				6	0	2	20.72	21.3±1
20393	1754.3	1754.3	QPSK	1	0	0	22.71	22.5±1
				1	2	0	22.78	22.5±1
				1	5	0	22.73	22.5±1
				3	0	0	22.76	22.5±1
				3	1	0	22.71	22.5±1
				3	2	0	22.73	22.5±1

			6	0	1	21.62	22.5±1
16QAM	2510	20850	1	0	1	21.67	21.3±1
			1	2	1	21.63	21.3±1
			1	5	1	21.61	21.3±1
			3	0	1	20.52	21.3±1
			3	1	1	20.59	21.3±1
			3	2	1	20.55	21.3±1
			6	0	2	20.52	21.3±1

LTE band VII:

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
20MHz	20850	2510	QPSK	1	0	0	22.78	22±1
				1	49	0	22.73	22±1
				1	99	0	22.76	22±1
				50	0	1	21.73	22±1
				50	24	1	21.72	22±1
				50	49	1	21.75	22±1
				100	0	1	21.71	22±1
			16QAM	1	0	1	21.64	21.3±1
				1	49	1	21.65	21.3±1
				1	99	1	21.61	21.3±1
				50	0	2	20.8	21.3±1
				50	24	2	20.83	21.3±1
				50	49	2	20.85	21.3±1
				100	0	2	20.73	21.3±1
	21100	2535	QPSK	1	0	0	22.76	22±1
				1	49	0	22.75	22±1
				1	99	0	22.77	22±1
				50	0	1	21.77	22±1
				50	24	1	21.79	22±1
				50	49	1	21.74	22±1
				100	0	1	21.71	22±1
				16QAM	1	0	22.16	21.3±1

			1	49	1	22.17	21.3±1
			1	99	1	22.16	21.3±1
			50	0	2	20.7	21.3±1
			50	24	2	20.79	21.3±1
			50	49	2	20.74	21.3±1
			100	0	2	20.71	21.3±1
		QPSK	1	0	0	22.07	21.5±1
			1	49	0	22.01	21.5±1
			1	99	0	22.06	21.5±1
			50	0	1	21.3	21.5±1
			50	24	1	21.29	21.5±1
			50	49	1	21.22	21.5±1
			100	0	1	21.34	21.5±1
		16QAM	1	0	1	21.44	21.3±1
			1	49	1	21.43	21.3±1
			1	99	1	21.46	21.3±1
			50	0	2	20.56	21.3±1
			50	24	2	20.55	21.3±1
			50	49	2	20.52	21.3±1
			100	0	2	20.58	21.3±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
15MHz	20825	1717.5	QPSK	1	0	0	22.63	22±1
				1	37	0	22.66	22±1
				1	74	0	22.63	22±1
				36	0	1	21.77	22±1
				36	16	1	21.74	22±1
				36	35	1	21.75	22±1
				75	0	1	21.83	22±1
			16QAM	1	0	1	22.19	21.3±1
				1	37	1	22.15	21.3±1
				1	74	1	22.18	21.3±1
				36	0	2	20.53	21.3±1
				36	16	2	20.52	21.3±1
				36	35	2	20.51	21.3±1
				75	0	2	20.86	21.3±1
21100	1732.5	QPSK		1	0	0	22.84	22±1

				1	37	0	22.81	22±1
				1	74	0	22.83	22±1
				36	0	1	21.38	22±1
				36	16	1	21.4	22±1
				36	35	1	21.37	22±1
				75	0	1	21.37	22±1
			16QAM	1	0	1	21.67	21.8±1
				1	37	1	21.66	21.8±1
				1	74	1	21.63	21.8±1
				36	0	2	21.72	21.8±1
				36	16	2	21.79	21.8±1
				36	35	2	21.74	21.8±1
				75	0	2	21.75	21.8±1
21375	1747.5	QPSK	QPSK	1	0	0	21.98	21.3±1
				1	37	0	21.93	21.3±1
				1	74	0	21.99	21.3±1
				36	0	1	21.06	21.3±1
				36	16	1	21.05	21.3±1
				36	35	1	21.02	21.3±1
				75	0	1	21.15	21.3±1
		16QAM	16QAM	1	0	1	21.56	21.3±1
				1	37	1	21.53	21.3±1
				1	74	1	21.54	21.3±1
				36	0	2	20.59	21.3±1
				36	16	2	20.52	21.3±1
				36	35	2	20.56	21.3±1
				75	0	2	20.37	21.3±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
20800	2502	2502	QPSK	1	0	0	21.61	21.5±1
				1	24	0	21.63	21.5±1
				1	49	0	21.66	21.5±1
				25	0	1	21.63	21.5±1
				25	12	1	21.65	21.5±1
				25	24	1	21.64	21.5±1
				50	0	1	21.46	21.5±1
		2535	16QAM	1	0	1	22.11	21.3±1
				1	24	1	22.17	21.3±1
				1	49	1	22.15	21.3±1
				25	0	2	20.74	21.3±1
				25	12	2	20.73	21.3±1
				25	24	2	20.77	21.3±1
				50	0	2	20.74	21.3±1
10MHz	21100	2535	QPSK	1	0	0	22.86	22±1
				1	24	0	22.85	22±1
				1	49	0	22.83	22±1
				25	0	1	21.83	22±1
				25	12	1	21.88	22±1
				25	24	1	21.81	22±1
				50	0	1	21.81	22±1
		2565	16QAM	1	0	1	21.7	21.3±1
				1	24	1	21.71	21.3±1
				1	49	1	21.74	21.3±1
				25	0	2	20.95	21.3±1
				25	12	2	20.98	21.3±1
				25	24	2	20.95	21.3±1
				50	0	2	20.73	21.3±1
21400	2565	QPSK	1	0	0	22.53	21.8±1	
			1	24	0	22.55	21.8±1	
			1	49	0	22.57	21.8±1	
			25	0	1	21.37	21.8±1	
			25	12	1	21.34	21.8±1	
			25	24	1	21.36	21.8±1	
			50	0	1	21.45	21.8±1	

			16QAM	1	0	1	21.34	21.3±1
				1	24	1	21.27	21.3±1
				1	49	1	21.31	21.3±1
				25	0	2	20.59	21.3±1
				25	12	2	20.53	21.3±1
				25	24	2	20.51	21.3±1
				50	0	2	20.5	21.3±1

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
5MHz	19975	1712.5	QPSK	1	0	0	22.5	22±1
				1	12	0	22.51	22±1
				1	24	0	22.43	22±1
				12	0	1	21.48	22±1
				12	6	1	21.46	22±1
				12	11	1	21.42	22±1
				25	0	1	21.65	22±1
	20175	1732.5	16QAM	1	0	1	21.63	21.3±1
				1	12	1	21.65	21.3±1
				1	24	1	21.62	21.3±1
				12	0	2	20.9	21.3±1
				12	6	2	20.92	21.3±1
				12	11	2	20.85	21.3±1
				25	0	2	20.8	21.3±1
			QPSK	1	0	0	22.89	22±1
				1	12	0	22.83	22±1
				1	24	0	22.84	22±1
				12	0	1	21.82	22±1
				12	6	1	21.84	22±1
				12	11	1	21.86	22±1
				25	0	1	21.74	22±1
			16QAM	1	0	1	21.81	21.3±1
				1	12	1	21.8	21.3±1
				1	24	1	21.88	21.3±1

	20375	1752.5	QPSK	12	11	2	20.66	21.3±1
				25	0	2	20.68	21.3±1
				1	0	0	22.4	21.8±1
				1	12	0	22.38	21.8±1
				1	24	0	22.36	21.8±1
				12	0	1	21.44	21.8±1
				12	6	1	21.39	21.8±1
				12	11	1	21.42	21.8±1
			16QAM	25	0	1	21.44	21.8±1
				1	0	1	21.62	21.3±1
				1	12	1	21.59	21.3±1
				1	24	1	21.57	21.3±1
				12	0	2	20.86	21.3±1
				12	6	2	20.87	21.3±1
				12	11	2	20.83	21.3±1
				25	0	2	20.47	21.3±1

ERP & EIRP

EIRP for LTE Band II (Part 24E)

Frequency (MHz)	BW (MHz)	Modulation	RB Size/Offset	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.7	1.4	QPSK	1/0	17.83	V	7.88	0.85	24.86	33.01
1880	1.4	QPSK	1/0	17.99	V	7.88	0.85	25.02	33.01
1909.3	1.4	QPSK	1/0	18.02	V	7.88	0.85	25.05	33.01
1850.7	1.4	QPSK	1/0	16.61	H	7.88	0.85	23.64	33.01
1880	1.4	QPSK	1/0	16.82	H	7.88	0.85	23.85	33.01
1909.3	1.4	QPSK	1/0	16.85	H	7.88	0.85	23.88	33.01
1850.7	1.4	16-QAM	1/0	16.36	V	7.88	0.85	23.39	33.01
1880	1.4	16-QAM	1/0	16.51	V	7.88	0.85	23.54	33.01
1909.3	1.4	16-QAM	1/0	16.77	V	7.88	0.85	23.8	33.01
1850.7	1.4	16-QAM	1/0	15.09	H	7.88	0.85	22.12	33.01
1880	1.4	16-QAM	1/0	15.43	H	7.88	0.85	22.46	33.01
1909.3	1.4	16-QAM	1/0	15.36	H	7.88	0.85	22.39	33.01
1851.5	3	QPSK	1/0	17.58	V	7.88	0.85	24.61	33.01
1880	3	QPSK	1/0	17.92	V	7.88	0.85	24.95	33.01
1908.5	3	QPSK	1/0	17.99	V	7.88	0.85	25.02	33.01
1851.5	3	QPSK	1/0	16.42	H	7.88	0.85	23.45	33.01
1880	3	QPSK	1/0	16.74	H	7.88	0.85	23.77	33.01
1908.5	3	QPSK	1/0	16.91	H	7.88	0.85	23.94	33.01
1851.5	3	16-QAM	1/0	17.2	V	7.88	0.85	24.23	33.01
1880	3	16-QAM	1/0	16.74	V	7.88	0.85	23.77	33.01
1908.5	3	16-QAM	1/0	16.93	V	7.88	0.85	23.96	33.01
1851.5	3	16-QAM	1/0	16.09	H	7.88	0.85	23.12	33.01
1880	3	16-QAM	1/0	15.45	H	7.88	0.85	22.48	33.01
1908.5	3	16-QAM	1/0	15.86	H	7.88	0.85	22.89	33.01
1852.5	5	QPSK	1/24	17.85	V	7.88	0.85	24.88	33.01
1880	5	QPSK	1/0	18.05	V	7.88	0.85	25.08	33.01
1907.5	5	QPSK	1/24	18	V	7.88	0.85	25.03	33.01
1852.5	5	QPSK	1/24	16.68	H	7.88	0.85	23.71	33.01
1880	5	QPSK	1/0	16.92	H	7.88	0.85	23.95	33.01

1907.5	5	QPSK	1/24	16.9	H	7.88	0.85	23.93	33.01
1852.5	5	16-QAM	1/24	16.78	V	7.88	0.85	23.81	33.01
1880	5	16-QAM	1/0	17	V	7.88	0.85	24.03	33.01
1907.5	5	16-QAM	1/24	17.21	V	7.88	0.85	24.24	33.01
1852.5	5	16-QAM	1/24	15.63	H	7.88	0.85	22.66	33.01
1880	5	16-QAM	1/0	15.94	H	7.88	0.85	22.97	33.01
1907.5	5	16-QAM	1/24	16.02	H	7.88	0.85	23.05	33.01
1855	10	QPSK	1/0	17.85	V	7.88	0.85	24.88	33.01
1880	10	QPSK	1/0	17.92	V	7.88	0.85	24.95	33.01
1905	10	QPSK	1/49	18.04	V	7.88	0.85	25.07	33.01
1855	10	QPSK	1/0	16.7	H	7.88	0.85	23.73	33.01
1880	10	QPSK	1/0	16.61	H	7.88	0.85	23.64	33.01
1905	10	QPSK	1/49	16.85	H	7.88	0.85	23.88	33.01
1855	10	16-QAM	1/0	16.8	V	7.88	0.85	23.83	33.01
1880	10	16-QAM	1/0	17.46	V	7.88	0.85	24.49	33.01
1905	10	16-QAM	1/49	16.85	V	7.88	0.85	23.88	33.01
1855	10	16-QAM	1/0	15.6	H	7.88	0.85	22.63	33.01
1880	10	16-QAM	1/0	16.16	H	7.88	0.85	23.19	33.01
1905	10	16-QAM	1/49	15.62	H	7.88	0.85	22.65	33.01
1857.5	15	QPSK	1/0	17.8	V	7.88	0.85	24.83	33.01
1880	15	QPSK	1/0	18.04	V	7.88	0.85	25.07	33.01
1902.5	15	QPSK	1/0	17.91	V	7.88	0.85	24.94	33.01
1857.5	15	QPSK	1/0	16.72	H	7.88	0.85	23.75	33.01
1880	15	QPSK	1/0	16.91	H	7.88	0.85	23.94	33.01
1902.5	15	QPSK	1/0	16.75	H	7.88	0.85	23.78	33.01
1857.5	15	16-QAM	1/0	17.37	V	7.88	0.85	24.4	33.01
1880	15	16-QAM	1/0	16.85	V	7.88	0.85	23.88	33.01
1902.5	15	16-QAM	1/0	17.26	V	7.88	0.85	24.29	33.01
1857.5	15	16-QAM	1/0	16.18	H	7.88	0.85	23.21	33.01
1880	15	16-QAM	1/0	15.7	H	7.88	0.85	22.73	33.01
1902.5	15	16-QAM	1/0	16.14	H	7.88	0.85	23.17	33.01
1860	20	QPSK	1/0	17.82	V	7.88	0.85	24.85	33.01
1880	20	QPSK	1/0	18.04	V	7.88	0.85	25.07	33.01
1900	20	QPSK	1/0	17.9	V	7.88	0.85	24.93	33.01
1860	20	QPSK	1/0	16.56	H	7.88	0.85	23.59	33.01

1880	20	QPSK	1/0	16.98	H	7.88	0.85	24.01	33.01
1900	20	QPSK	1/0	16.73	H	7.88	0.85	23.76	33.01
1860	20	16-QAM	1/0	17.27	V	7.88	0.85	24.3	33.01
1880	20	16-QAM	1/0	16.93	V	7.88	0.85	23.96	33.01
1900	20	16-QAM	1/0	17.22	V	7.88	0.85	24.25	33.01
1860	20	16-QAM	1/0	16.09	H	7.88	0.85	23.12	33.01
1880	20	16-QAM	1/0	15.86	H	7.88	0.85	22.89	33.01
1900	20	16-QAM	1/0	16.02	H	7.88	0.85	23.05	33.01

EIRP for LTE Band IV (Part 27)

Frequency (MHz)	BW (MHz)	Modulation	RB Size/Offset	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1710.7	1.4	QPSK	1/0	17.96	V	7.95	0.79	25.12	30
1732.5	1.4	QPSK	1/0	17.61	V	7.95	0.79	24.77	30
1754.3	1.4	QPSK	1/0	17.62	V	7.95	0.79	24.78	30
1710.7	1.4	QPSK	1/0	16.87	H	7.95	0.79	24.03	30
1732.5	1.4	QPSK	1/0	16.49	H	7.95	0.79	23.65	30
1754.3	1.4	QPSK	1/0	16.53	H	7.95	0.79	23.69	30
1710.7	1.4	16-QAM	1/5	16.71	V	7.95	0.79	23.87	30
1732.5	1.4	16-QAM	1/0	16.23	V	7.95	0.79	23.39	30
1754.3	1.4	16-QAM	1/0	16.51	V	7.95	0.79	23.67	30
1710.7	1.4	16-QAM	1/5	15.59	H	7.95	0.79	22.75	30
1732.5	1.4	16-QAM	1/0	15.12	H	7.95	0.79	22.28	30
1754.3	1.4	16-QAM	1/0	15.27	H	7.95	0.79	22.43	30
1711.5	3	QPSK	1/0	17.62	V	7.95	0.79	24.78	30
1732.5	3	QPSK	1/0	17.62	V	7.95	0.79	24.78	30
1753.5	3	QPSK	1/0	17.6	V	7.95	0.79	24.76	30
1711.5	3	QPSK	1/0	16.5	H	7.95	0.79	23.66	30
1732.5	3	QPSK	1/0	16.45	H	7.95	0.79	23.61	30
1753.5	3	QPSK	1/0	16.43	H	7.95	0.79	23.59	30
1711.5	3	16-QAM	1/0	17.39	V	7.95	0.79	24.55	30
1732.5	3	16-QAM	1/0	16.51	V	7.95	0.79	23.67	30
1753.5	3	16-QAM	1/0	16.52	V	7.95	0.79	23.68	30
1711.5	3	16-QAM	1/0	16.02	H	7.95	0.79	23.18	30
1732.5	3	16-QAM	1/0	15.3	H	7.95	0.79	22.46	30
1753.5	3	16-QAM	1/0	15.19	H	7.95	0.79	22.35	30
1712.5	5	QPSK	1/0	17.9	V	7.95	0.79	25.06	30
1732.5	5	QPSK	1/0	17.79	V	7.95	0.79	24.95	30
1752.5	5	QPSK	1/24	17.07	V	7.95	0.79	24.23	30
1712.5	5	QPSK	1/0	16.73	H	7.95	0.79	23.89	30
1732.5	5	QPSK	1/0	16.59	H	7.95	0.79	23.75	30
1752.5	5	QPSK	1/24	15.96	H	7.95	0.79	23.12	30

1712.5	5	16-QAM	1/0	16.89	V	7.95	0.79	24.05	30
1732.5	5	16-QAM	1/0	16.83	V	7.95	0.79	23.99	30
1752.5	5	16-QAM	1/24	16.57	V	7.95	0.79	23.73	30
1712.5	5	16-QAM	1/0	15.78	H	7.95	0.79	22.94	30
1732.5	5	16-QAM	1/0	15.71	H	7.95	0.79	22.87	30
1752.5	5	16-QAM	1/24	15.49	H	7.95	0.79	22.65	30
1715	10	QPSK	1/0	17.74	V	7.95	0.79	24.9	30
1732.5	10	QPSK	1/49	17.71	V	7.95	0.79	24.87	30
1750	10	QPSK	1/0	17.59	V	7.95	0.79	24.75	30
1715	10	QPSK	1/0	16.72	H	7.95	0.79	23.88	30
1732.5	10	QPSK	1/49	16.49	H	7.95	0.79	23.65	30
1750	10	QPSK	1/0	16.56	H	7.95	0.79	23.72	30
1715	10	16-QAM	1/0	17.4	V	7.95	0.79	24.56	30
1732.5	10	16-QAM	1/49	16.53	V	7.95	0.79	23.69	30
1750	10	16-QAM	1/0	16.53	V	7.95	0.79	23.69	30
1715	10	16-QAM	1/0	16.05	H	7.95	0.79	23.21	30
1732.5	10	16-QAM	1/49	15.41	H	7.95	0.79	22.57	30
1750	10	16-QAM	1/0	15.37	H	7.95	0.79	22.53	30
1717.5	15	QPSK	1/0	17.68	V	7.95	0.79	24.84	30
1732.5	15	QPSK	1/74	17.72	V	7.95	0.79	24.88	30
1747.5	15	QPSK	1/0	17.48	V	7.95	0.79	24.64	30
1717.5	15	QPSK	1/0	16.55	H	7.95	0.79	23.71	30
1732.5	15	QPSK	1/74	16.49	H	7.95	0.79	23.65	30
1747.5	15	QPSK	1/0	16.43	H	7.95	0.79	23.59	30
1717.5	15	16-QAM	1/0	17.38	V	7.95	0.79	24.54	30
1732.5	15	16-QAM	1/74	16.58	V	7.95	0.79	23.74	30
1747.5	15	16-QAM	1/0	16.81	V	7.95	0.79	23.97	30
1717.5	15	16-QAM	1/0	16.19	H	7.95	0.79	23.35	30
1732.5	15	16-QAM	1/74	15.45	H	7.95	0.79	22.61	30
1747.5	15	16-QAM	1/0	15.62	H	7.95	0.79	22.78	30
1720	20	QPSK	1/99	17.8	V	7.95	0.79	24.96	30
1732.5	20	QPSK	1/99	17.83	V	7.95	0.79	24.99	30
1745	20	QPSK	1/0	17.49	V	7.95	0.79	24.65	30
1720	20	QPSK	1/99	16.63	H	7.95	0.79	23.79	30
1732.5	20	QPSK	1/99	16.7	H	7.95	0.79	23.86	30

1745	20	QPSK	1/0	16.35	H	7.95	0.79	23.51	30
1720	20	16-QAM	1/99	17.32	V	7.95	0.79	24.48	30
1732.5	20	16-QAM	1/99	16.73	V	7.95	0.79	23.89	30
1745	20	16-QAM	1/0	16.8	V	7.95	0.79	23.96	30
1720	20	16-QAM	1/99	16.08	H	7.95	0.79	23.24	30
1732.5	20	16-QAM	1/99	15.6	H	7.95	0.79	22.76	30
1745	20	16-QAM	1/0	15.67	H	7.95	0.79	22.83	30

ERP for LTE Band VII (Part 27)

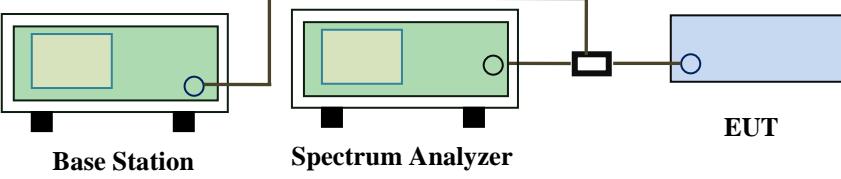
Frequency (MHz)	BW (MHz)	Modulation	RB Size/Offset	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
2502.5	5	QPSK	1/0	15.3	V	8.93	0.83	23.4	30
2535	5	QPSK	1/0	15.79	V	8.93	0.83	23.89	30
2567.5	5	QPSK	1/24	15.41	V	8.93	0.83	23.51	30
2502.5	5	QPSK	1/0	14.03	H	8.93	0.83	22.13	30
2535	5	QPSK	1/0	14.58	H	8.93	0.83	22.68	30
2567.5	5	QPSK	1/24	14.25	H	8.93	0.83	22.35	30
2502.5	5	16-QAM	1/0	14.52	V	8.93	0.83	22.62	30
2535	5	16-QAM	1/0	14.78	V	8.93	0.83	22.88	30
2567.5	5	16-QAM	1/24	14.55	V	8.93	0.83	22.65	30
2502.5	5	16-QAM	1/0	13.33	H	8.93	0.83	21.43	30
2535	5	16-QAM	1/0	13.66	H	8.93	0.83	21.76	30
2567.5	5	16-QAM	1/24	13.48	H	8.93	0.83	21.58	30
2505	10	QPSK	1/0	15.47	V	8.93	0.83	23.57	30
2535	10	QPSK	1/49	15.76	V	8.93	0.83	23.86	30
2565	10	QPSK	1/0	14.56	V	8.93	0.83	22.66	30
2505	10	QPSK	1/0	14.15	H	8.93	0.83	22.25	30
2535	10	QPSK	1/49	14.69	H	8.93	0.83	22.79	30
2565	10	QPSK	1/0	14.33	H	8.93	0.83	22.43	30
2505	10	16-QAM	1/0	14.24	V	8.93	0.83	22.34	30
2535	10	16-QAM	1/49	14.64	V	8.93	0.83	22.74	30
2565	10	16-QAM	1/0	15.07	V	8.93	0.83	23.17	30
2505	10	16-QAM	1/0	13.13	H	8.93	0.83	21.23	30
2535	10	16-QAM	1/49	13.55	H	8.93	0.83	21.65	30
2565	10	16-QAM	1/0	13.94	H	8.93	0.83	22.04	30
2507.5	15	QPSK	1/0	14.89	V	8.93	0.83	22.99	30
2535	15	QPSK	1/74	15.74	V	8.93	0.83	23.84	30
2562.5	15	QPSK	1/0	15.56	V	8.93	0.83	23.66	30
2507.5	15	QPSK	1/0	13.77	H	8.93	0.83	21.87	30
2535	15	QPSK	1/74	14.42	H	8.93	0.83	22.52	30
2562.5	15	QPSK	1/0	14.38	H	8.93	0.83	22.48	30

2507.5	15	16-QAM	1/0	14.46	V	8.93	0.83	22.56	30
2535	15	16-QAM	1/74	14.69	V	8.93	0.83	22.79	30
2562.5	15	16-QAM	1/0	15.09	V	8.93	0.83	23.19	30
2507.5	15	16-QAM	1/0	13.23	H	8.93	0.83	21.33	30
2535	15	16-QAM	1/74	13.41	H	8.93	0.83	21.51	30
2562.5	15	16-QAM	1/0	13.97	H	8.93	0.83	22.07	30
2510	20	QPSK	1/99	14.97	V	8.93	0.83	23.07	30
2535	20	QPSK	1/99	15.67	V	8.93	0.83	23.77	30
2560	20	QPSK	1/0	15.68	V	8.93	0.83	23.78	30
2510	20	QPSK	1/99	13.85	H	8.93	0.83	21.95	30
2535	20	QPSK	1/99	14.51	H	8.93	0.83	22.61	30
2560	20	QPSK	1/0	14.6	H	8.93	0.83	22.7	30
2510	20	16-QAM	1/99	14.36	V	8.93	0.83	22.46	30
2535	20	16-QAM	1/99	15.07	V	8.93	0.83	23.17	30
2560	20	16-QAM	1/0	14.55	V	8.93	0.83	22.65	30
2510	20	16-QAM	1/99	13.23	H	8.93	0.83	21.33	30
2535	20	16-QAM	1/99	13.95	H	8.93	0.83	22.05	30
2560	20	16-QAM	1/0	13.49	H	8.93	0.83	21.59	30

6.3 Peak-Average Ratio

Temperature	24 °C
Relative Humidity	56%
Atmospheric Pressure	1023mbar
Test date :	May 23, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§24.232(d) § 27.50(d)	a)	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Base Station Spectrum Analyzer EUT</p>		
Test Procedure	<p>According with KDB 971168 v02r02</p> <p>5.7.2 Alternate procedure for PAPR</p> <p>5.1.2 Peak power measurements with a peak power meter</p> <p>The total peak output power may be measured using a broadband peak RF power meter. The power meter must have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.</p> <p>5.2.3 Average power measurement with average power meter</p> <p>As an alternative to the use of a spectrum/signal analyzer or EMI receiver to perform a measurement of the total in-band average output power, a wideband RF average power meter with a thermocouple detector or equivalent can be used under certain conditions</p> <p>If the EUT can be configured to transmit continuously (i.e., the burst duty cycle \geq 98%) and at all times the EUT is transmitting at its maximum output</p>		

	<p>power level, then a conventional wide-band RF power meter can be used. If the EUT cannot be configured to transmit continuously (i.e., the burst duty cycle < 98%), then there are two options for the use of an average power meter. First, a gated average power meter can be used to perform the measurement if the gating parameters can be adjusted such that the power is measured only over active transmission bursts at maximum output power levels. A conventional average power meter can also be used if the measured burst duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to $10\log(1/\text{duty cycle})$</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

LTE Band II (part 24E)

BW(MHz)	Frequency (MHz)	Mode	Modulation	Conducted Power (dBm)		Peak-Average Ratio (PAR)
				Peak	Average	
1.4	1880	RB 1/0	QPSK	23.42	22.96	0.46
			16QAM	22.06	21.61	0.45
3	1880	RB 1/0	QPSK	23.46	23.05	0.41
			16QAM	22.02	21.85	0.17
5	1880	RB 1/0	QPSK	23.49	23.18	0.31
			16QAM	22.29	22.13	0.16
10	1880	RB 1/0	QPSK	23.44	23.05	0.39
			16QAM	22.93	22.59	0.34
15	1880	RB 1/0	QPSK	23.43	23.17	0.26
			16QAM	22.43	21.98	0.45
20	1880	RB 1/0	QPSK	23.62	23.16	0.46
			16QAM	22.46	22.06	0.4

LTE Band IV (part 27)

BW(MHz)	Frequency (MHz)	Mode	Modulation	Conducted Power (dBm)		Peak-Average Ratio (PAR)
				Peak	Average	
1.4	1732.5	RB 1/0	QPSK	23.18	22.71	0.47
			16QAM	21.84	21.4	0.44
3	1732.5	RB 1/0	QPSK	23.26	22.75	0.51
			16QAM	22.06	21.61	0.45
5	1732.5	RB 1/0	QPSK	23.15	22.91	0.24
			16QAM	22.32	21.95	0.37
10	1732.5	RB 1/0	QPSK	23.15	22.86	0.29
			16QAM	22.06	21.69	0.37
15	1732.5	RB 1/0	QPSK	23.34	22.88	0.46
			16QAM	22.18	21.71	0.47
20	1732.5	RB 1/0	QPSK	23.28	22.93	0.35
			16QAM	22.26	21.84	0.42

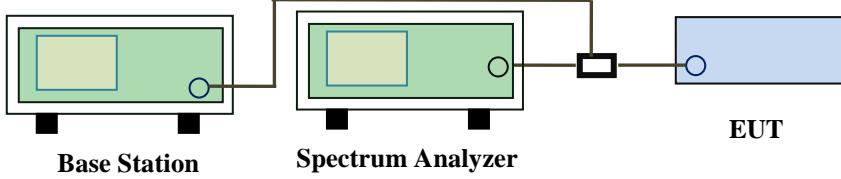
LTE Band VII (part 27)

BW(MHz)	Frequency (MHz)	Mode	Modulation	Conducted Power (dBm)		Peak-Average Ratio (PAR)
				Peak	Average	
5	2535	RB 1/0	QPSK	23.28	22.89	0.39
			16QAM	22.24	21.81	0.43
10	2535	RB 1/0	QPSK	23.29	22.86	0.43
			16QAM	22.29	21.7	0.59
15	2535	RB 1/0	QPSK	23.26	22.84	0.42
			16QAM	22.13	21.67	0.46
20	2535	RB 1/0	QPSK	23.23	22.76	0.47
			16QAM	22.55	22.16	0.39

6.4 Occupied Bandwidth

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	May 24, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1049, §22.917, §22.905 §24.238 §27.53(a)	a)	99% Occupied Bandwidth(kHz)	<input checked="" type="checkbox"/>
	b)	26 dB Bandwidth(kHz)	<input checked="" type="checkbox"/>
Test Setup		 <p style="text-align: center;">Base Station Spectrum Analyzer EUT</p>	
Test Procedure		<ul style="list-style-type: none"> - The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers. 	
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A

Test Plot Yes (See below) N/A

LTE Band II (Part 24E)

BW(MHz)	Channel	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1.4	18607	1850	16QAM	1.0995	1.270
			QPSK	1.0985	1.273
1.4	18900	1880	16QAM	1.1026	1.270
			QPSK	1.0993	1.287
1.4	19193	1909	16QAM	1.1055	1.272
			QPSK	1.1034	1.272
3	18615	1852	16QAM	2.7448	3.063
			QPSK	2.7451	3.039
3	18900	1880	16QAM	2.7372	3.038
			QPSK	2.7487	3.053
3	19185	1909	16QAM	2.7432	3.040
			QPSK	2.7454	3.036
5	18625	1853	16QAM	4.5343	5.055
			QPSK	4.5321	5.036
5	18900	1880	16QAM	4.5306	5.059
			QPSK	4.5325	5.097
5	19175	1908	16QAM	4.5457	5.003
			QPSK	4.5391	5.006
10	18650	1855	16QAM	9.0601	10.16
			QPSK	9.0796	10.15
10	18900	1880	16QAM	9.0257	10.01
			QPSK	9.0397	10.06
10	19150	1905	16QAM	9.0465	10.09
			QPSK	9.0402	10.10
15	18675	1858	16QAM	13.524	14.88
			QPSK	13.547	14.98
15	18900	1880	16QAM	13.433	14.77
			QPSK	13.446	14.68
15	19125	1903	16QAM	13.491	14.73
			QPSK	13.488	14.96

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20	18700	1860	16QAM	18.013	19.37
			QPSK	17.979	19.44
20	18900	1880	16QAM	17.939	19.26
			QPSK	17.927	19.19
20	19100	1900	16QAM	17.919	19.24
			QPSK	17.894	19.33

LTE Band IV (Part 27)

BW(MHz)	Channel	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1.4	19957	1711	16QAM	1.1034	1.291
			QPSK	1.1021	1.288
1.4	20175	1733	16QAM	1.1001	1.280
			QPSK	1.1008	1.281
1.4	20393	1754	16QAM	1.1077	1.268
			QPSK	1.1028	1.265
3	19965	1712	16QAM	2.7466	3.063
			QPSK	2.7417	3.028
3	20175	1733	16QAM	2.7449	3.018
			QPSK	2.7458	3.043
3	20385	1754	16QAM	2.7447	3.032
			QPSK	2.7484	3.051
5	19975	1713	16QAM	4.5310	5.012
			QPSK	4.5332	5.018
5	20175	1733	16QAM	4.5282	5.111
			QPSK	4.5335	5.101
5	20375	1753	16QAM	4.5294	5.026
			QPSK	4.5372	5.004
10	20000	1715	16QAM	9.0539	10.19
			QPSK	9.0637	10.14
10	20175	1733	16QAM	9.0452	10.06
			QPSK	9.0400	10.09
10	20350	1750	16QAM	9.0514	10.11
			QPSK	9.0366	10.09
15	20025	1718	16QAM	13.518	14.91
			QPSK	13.504	14.72
15	20175	1733	16QAM	13.458	14.71
			QPSK	13.455	14.90
15	20325	1748	16QAM	13.475	14.83
			QPSK	13.490	14.90

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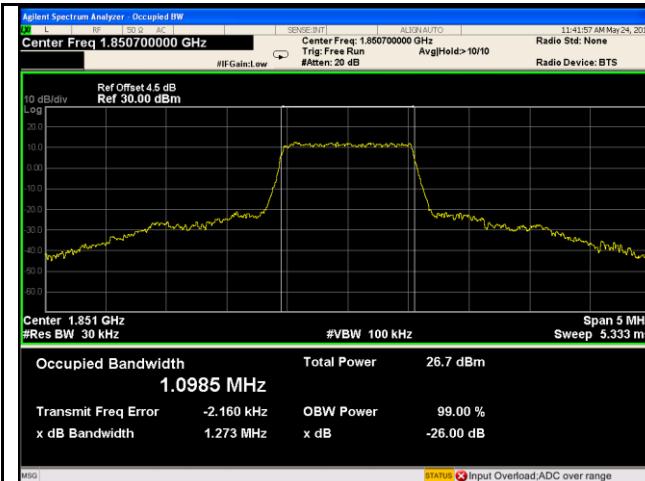
20	20050	1720	16QAM	17.946	19.30
			QPSK	17.959	19.42
20	20175	1733	16QAM	17.883	19.36
			QPSK	17.911	19.29
20	20300	1745	16QAM	17.957	19.31
			QPSK	17.931	19.61

LTE Band VII (Part 27) result

BW(MHz)	Channel	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
5	20775	2503	16QAM	4.5244	4.995
			QPSK	4.5350	5.035
5	21100	2535	16QAM	4.5309	5.123
			QPSK	4.5193	5.081
5	21425	2568	16QAM	4.5236	5.064
			QPSK	4.5236	5.054
10	20800	2505	16QAM	9.0313	10.13
			QPSK	9.0444	10.10
10	21100	2535	16QAM	9.0386	10.07
			QPSK	9.0422	10.09
10	21400	2565	16QAM	9.0648	10.13
			QPSK	9.0485	10.08
15	20825	2508	16QAM	13.456	14.73
			QPSK	13.477	14.83
15	21100	2535	16QAM	13.461	14.78
			QPSK	13.473	14.76
15	21400	2563	16QAM	13.502	14.82
			QPSK	13.503	14.90
20	20850	2510	16QAM	17.878	19.51
			QPSK	17.899	19.33
20	21100	2535	16QAM	17.899	19.24
			QPSK	17.952	19.41
20	21350	2560	16QAM	17.943	19.24
			QPSK	17.947	19.43

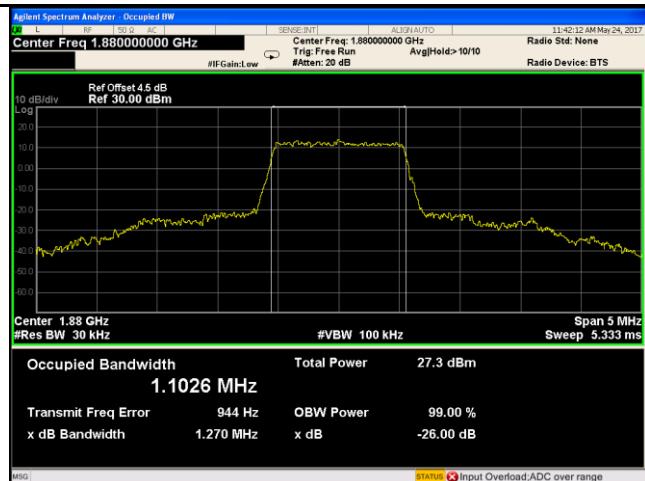
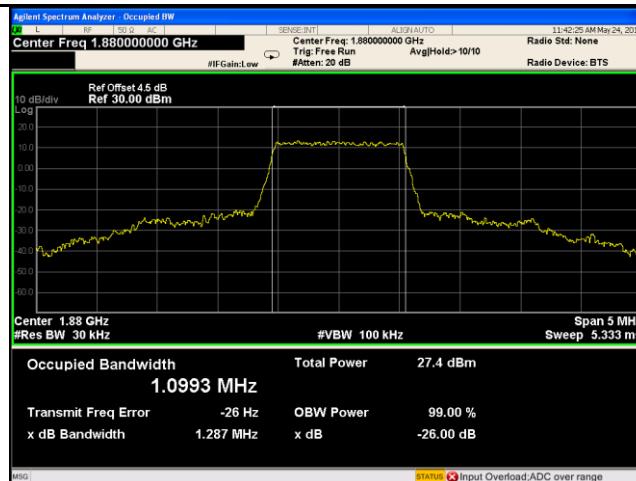
Test Plots

LTE Band II (Part 24E)



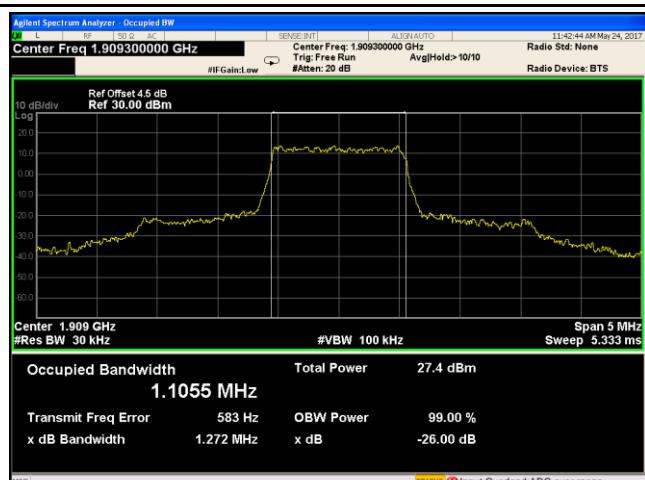
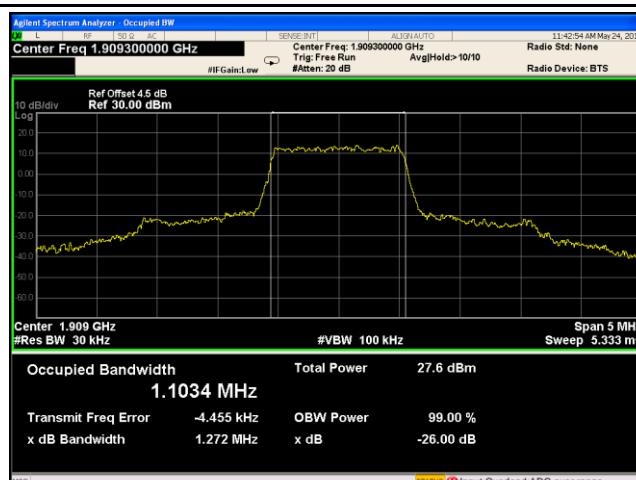
LTE band II - Low CH QPSK-1.4

LTE band II - Low CH 16QAM-1.4



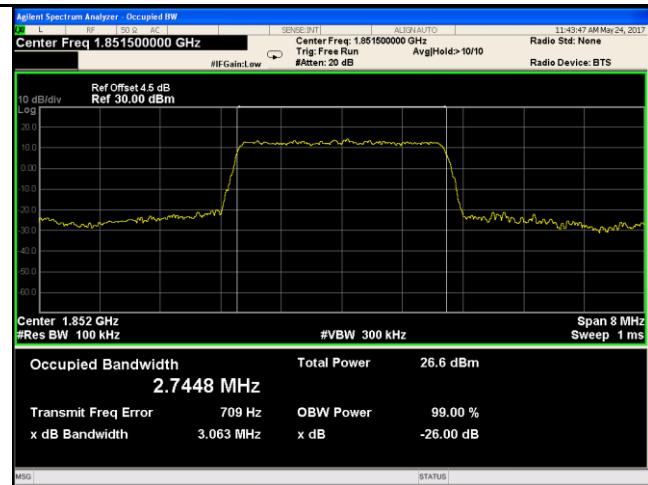
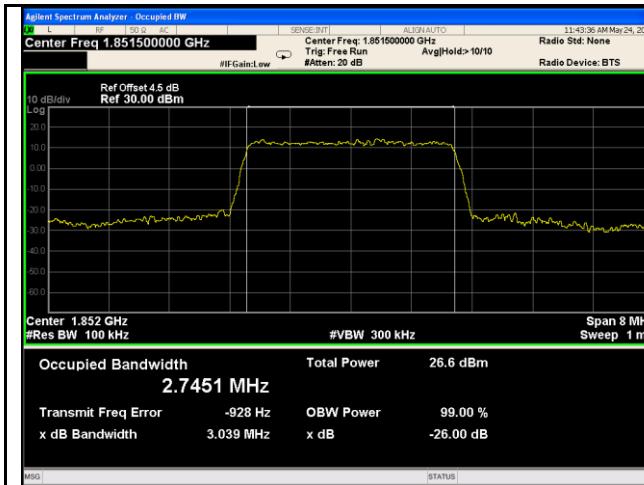
LTE band II - Middle CH QPSK-1.4

LTE band II - Middle CH 16QAM-1.4

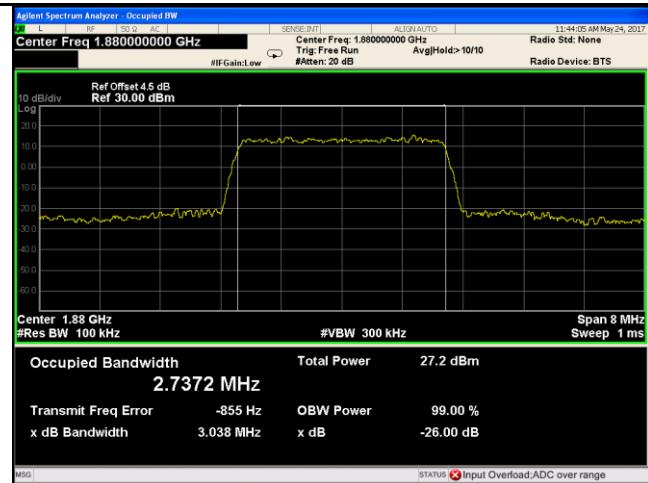
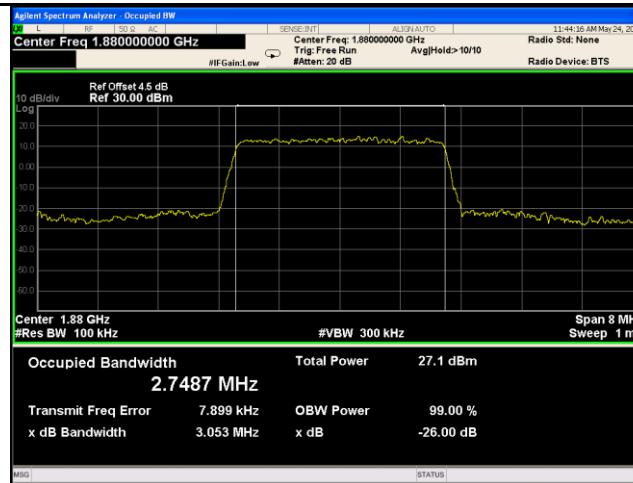


LTE band II - High CH QPSK-1.4

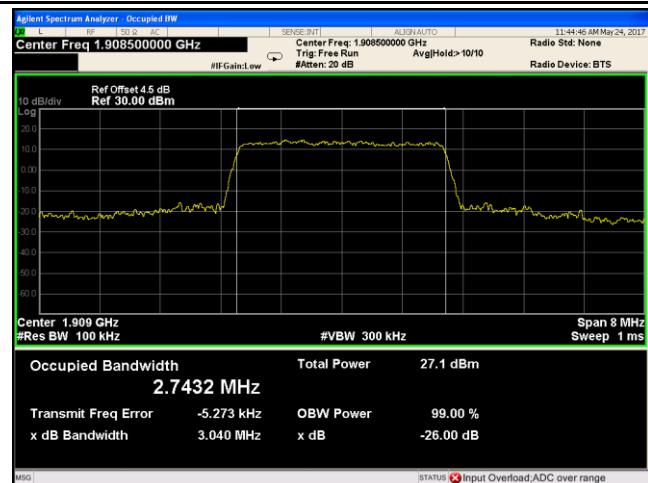
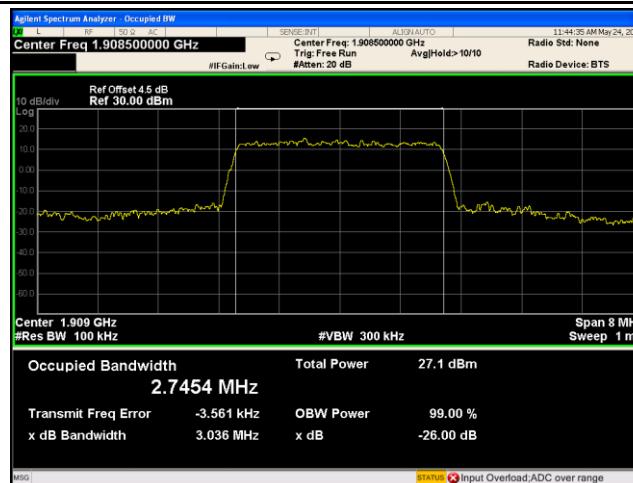
LTE band II - High CH 16QAM-1.4



LTE band II - Low CH QPSK-3

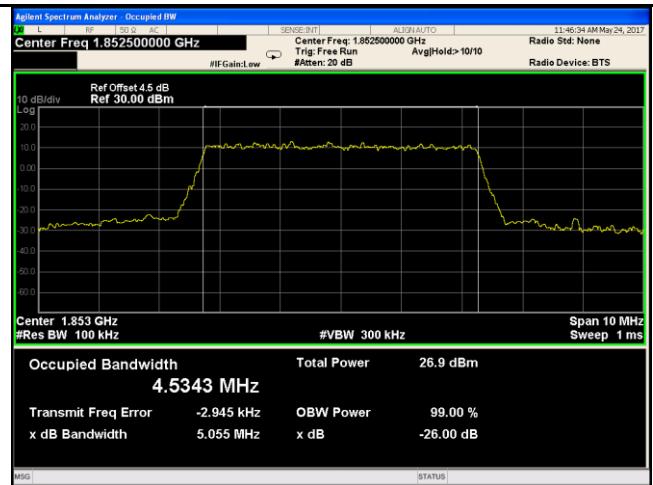
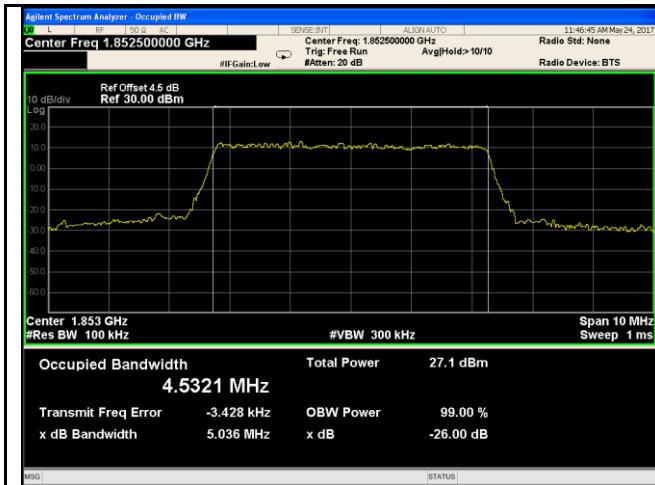


LTE band II - Middle CH QPSK-3

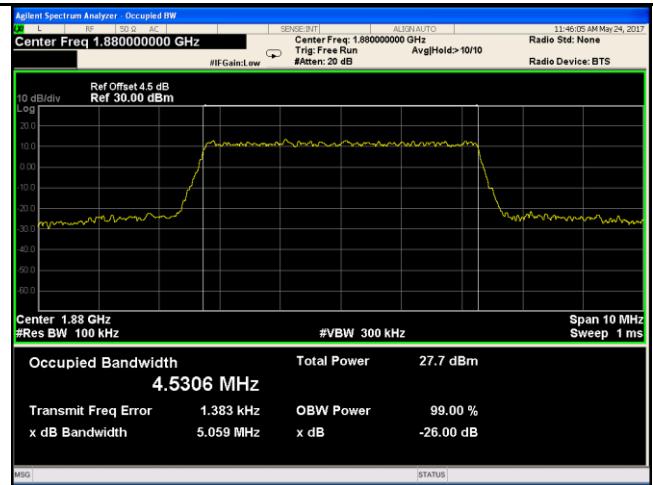
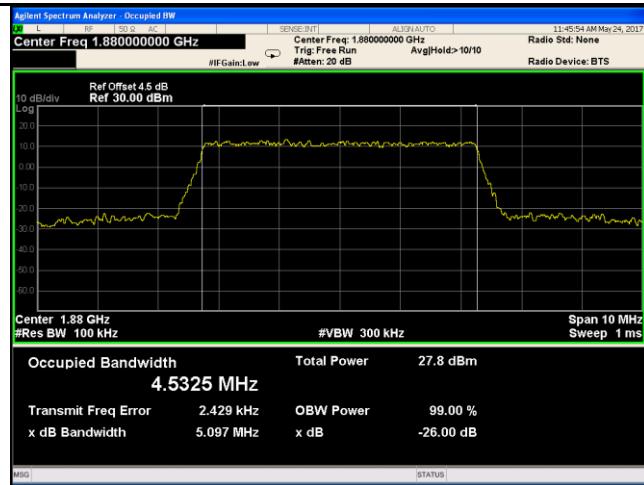


LTE band II - High CH QPSK-3

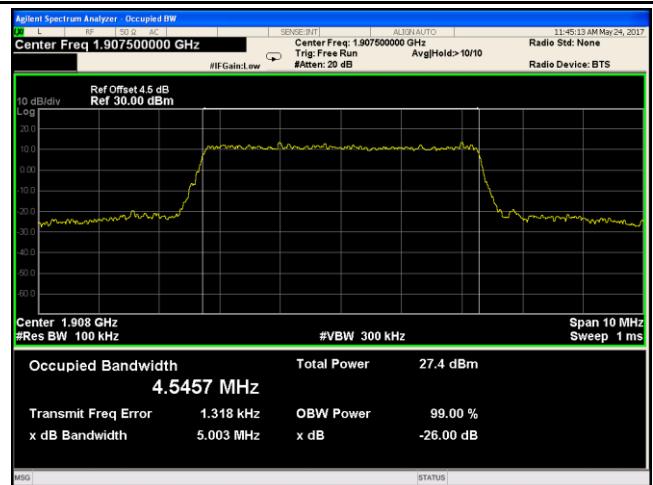
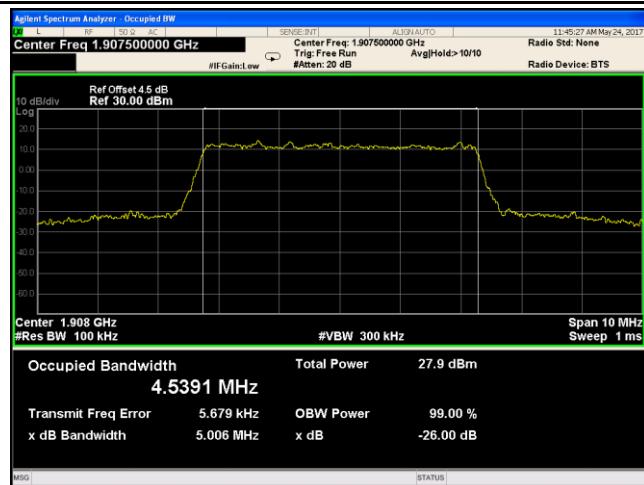
LTE band II - High CH 16QAM-3



LTE band II - Low CH QPSK-5

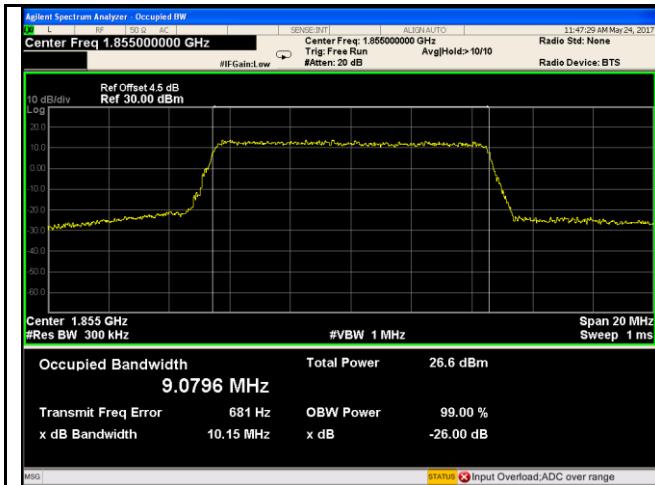


LTE band II - Middle CH QPSK-5



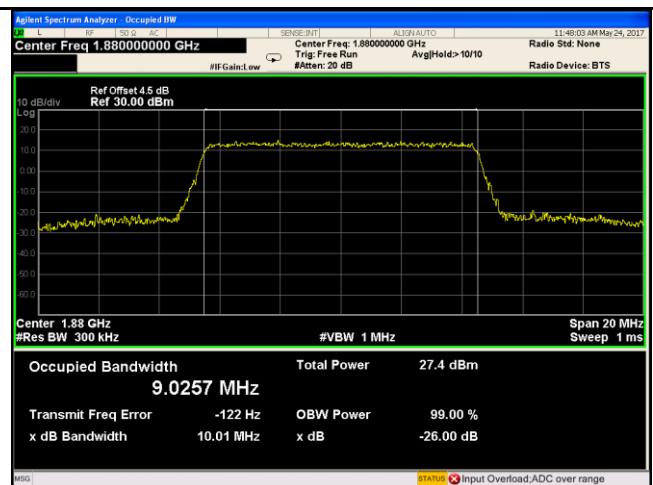
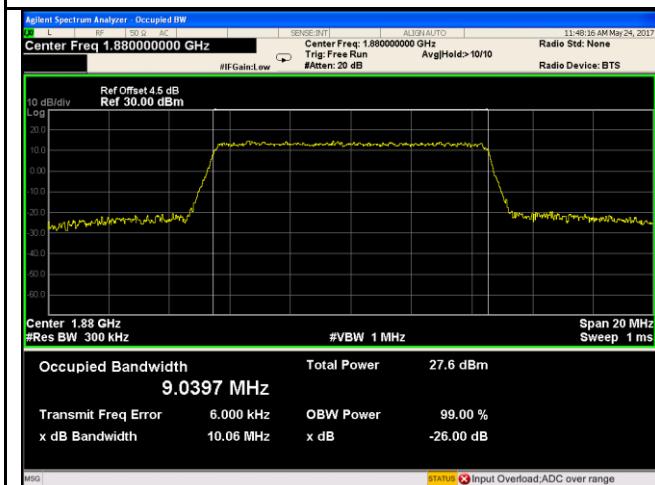
LTE band II - High CH QPSK-5

LTE band II - High CH 16QAM-5



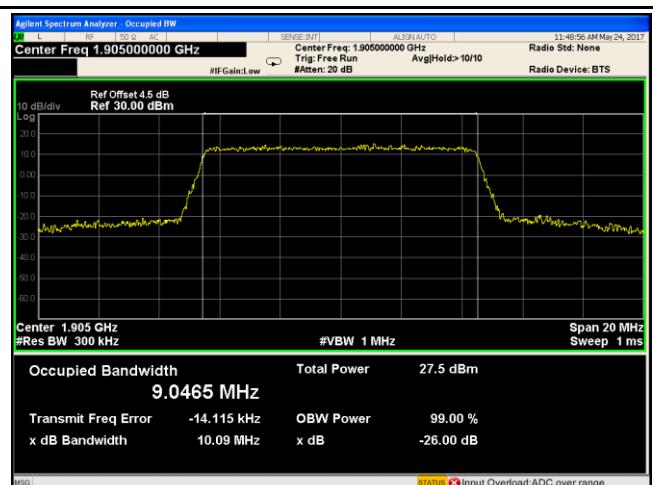
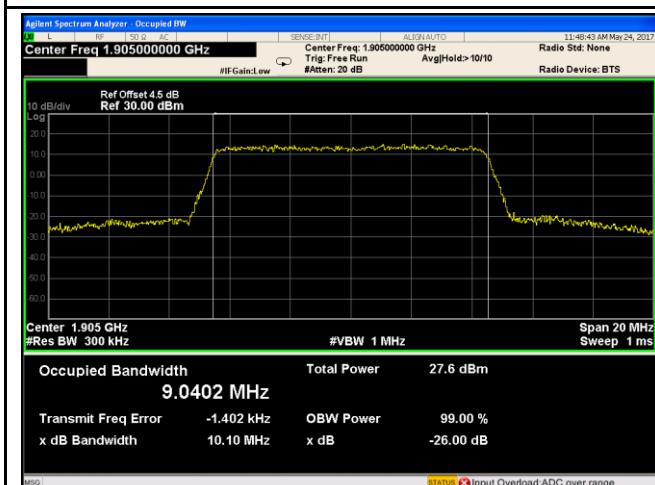
LTE band II - Low CH QPSK-10

LTE band II - Low CH 16QAM-10



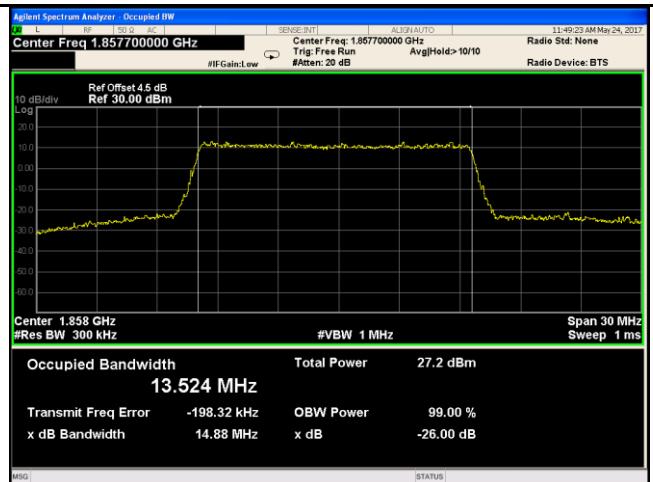
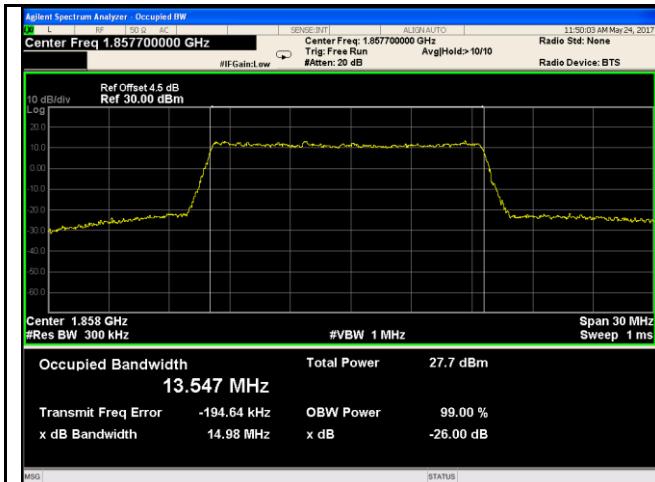
LTE band II - Middle CH QPSK-10

LTE band II - Middle CH 16QAM-10

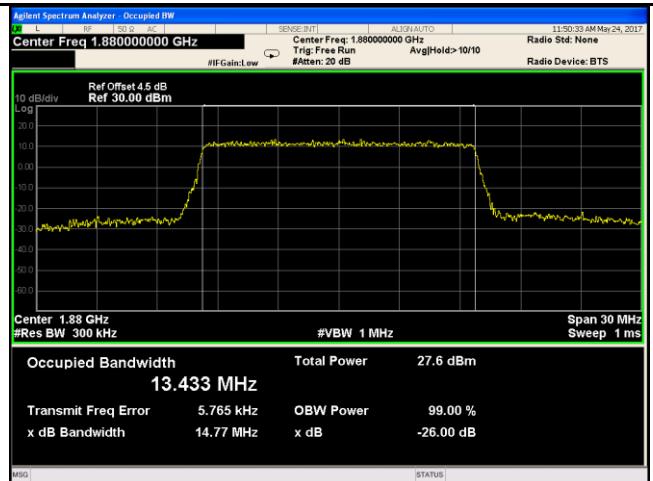
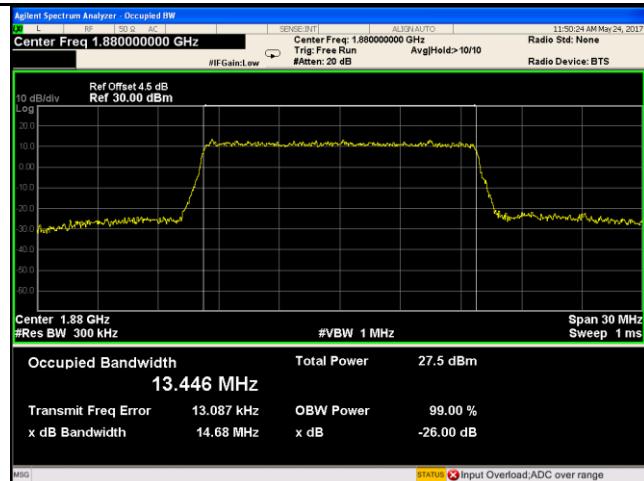


LTE band II - High CH QPSK-10

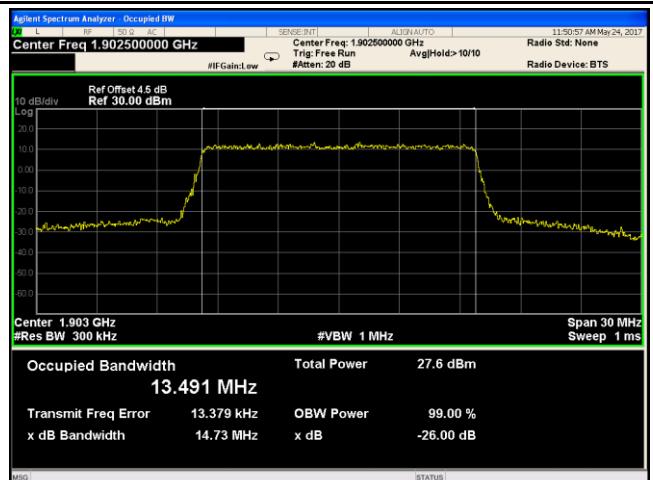
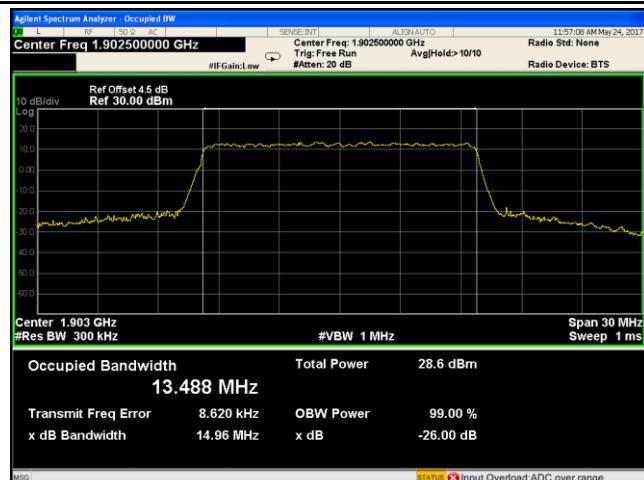
LTE band II - High CH 16QAM-10



LTE band II - Low CH QPSK-15

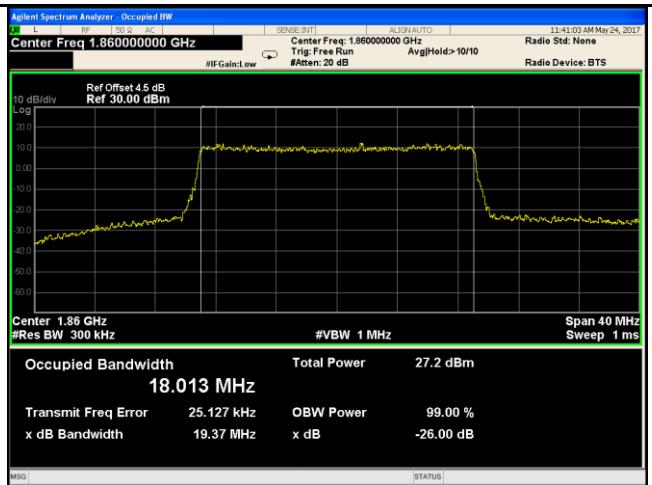
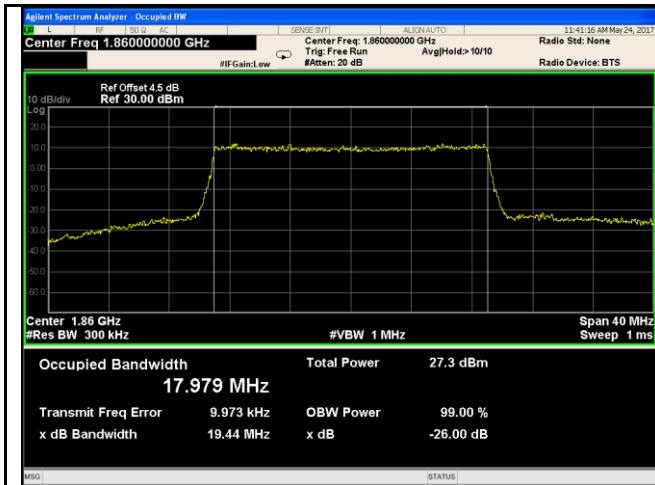


LTE band II - Middle CH QPSK-15

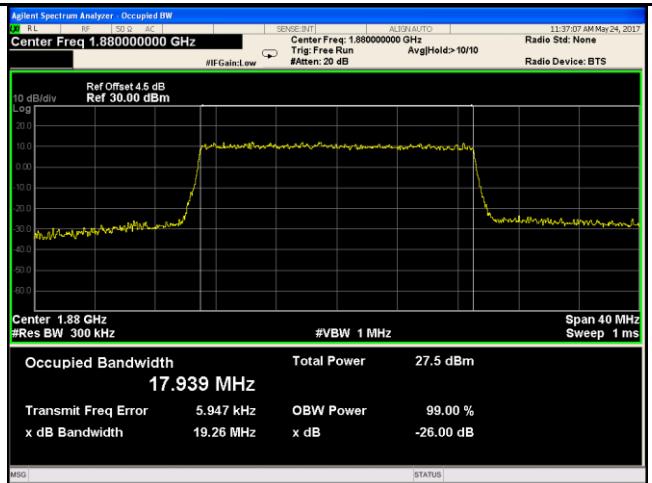
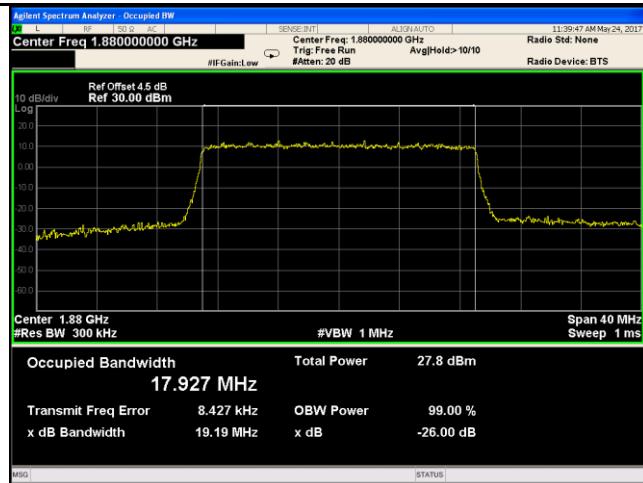


LTE band II - High CH QPSK-15

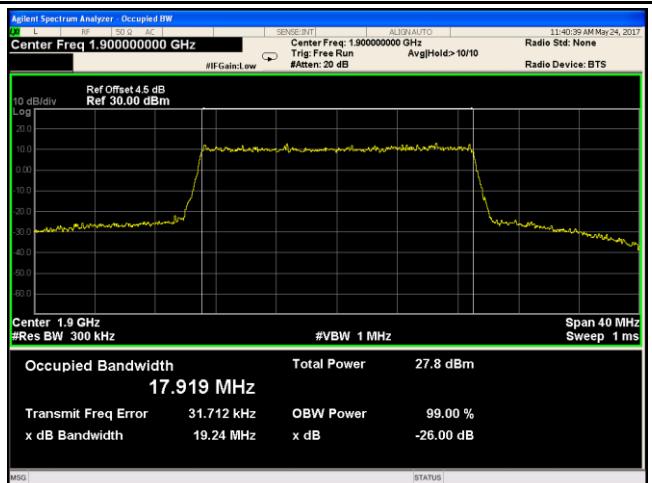
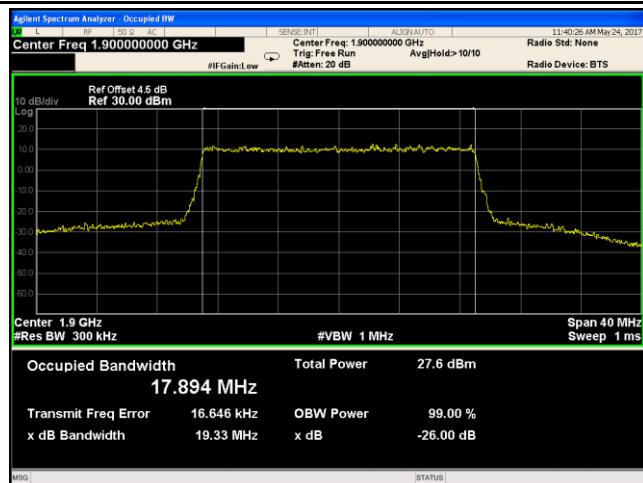
LTE band II - High CH 16QAM-15



LTE band II - Low CH QPSK-20



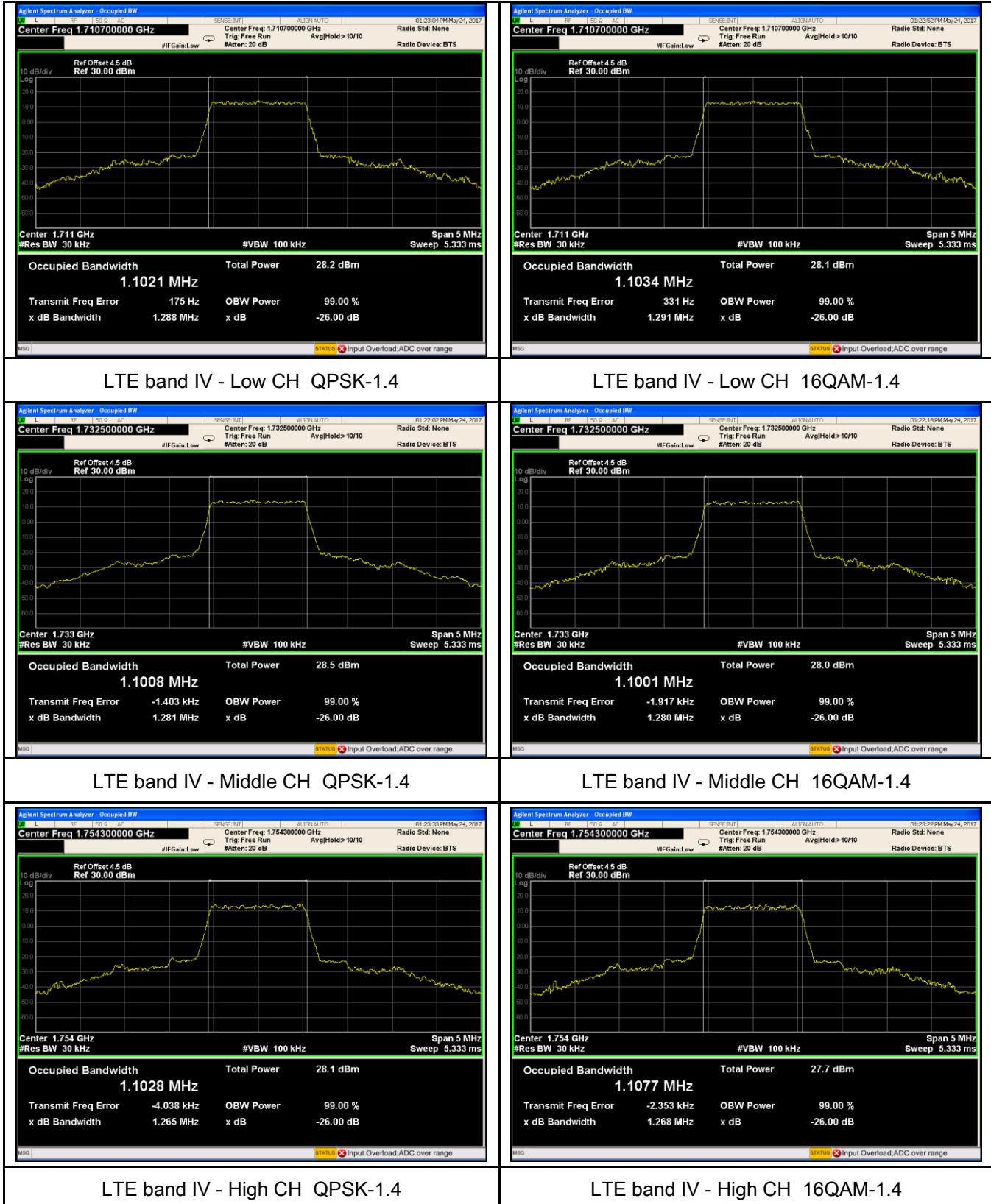
LTE band II - Middle CH QPSK-20

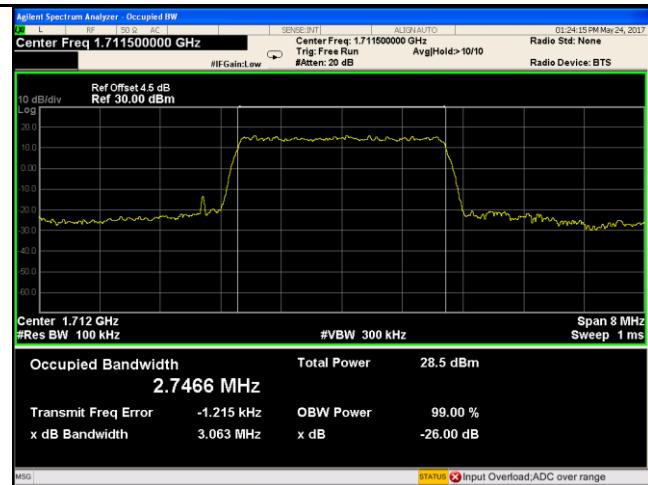
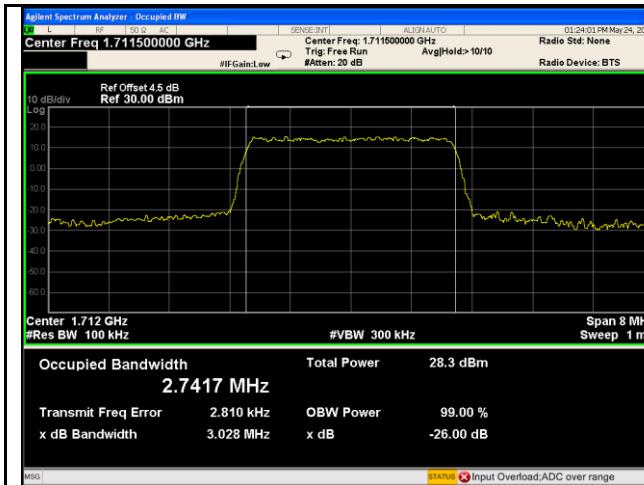


LTE band II - High CH QPSK-20

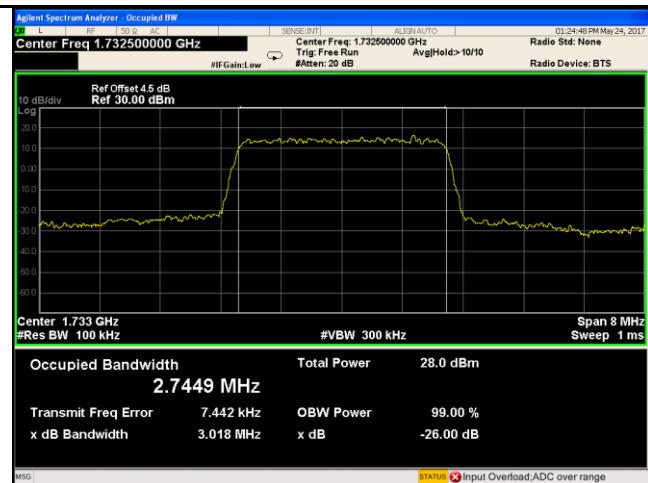
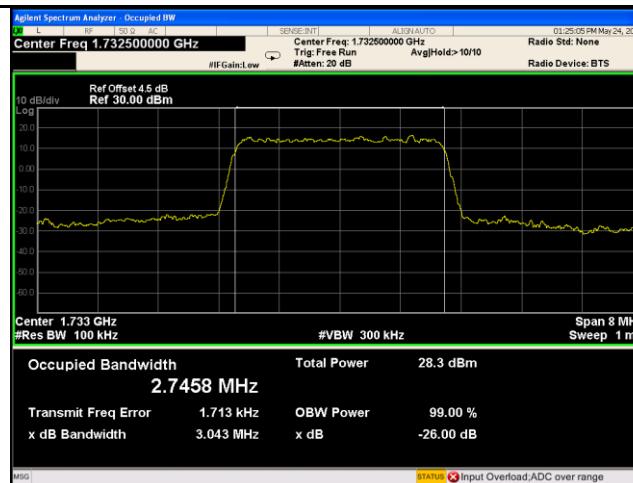
LTE band II - High CH 16QAM-20

LTE band IV (Part 27)

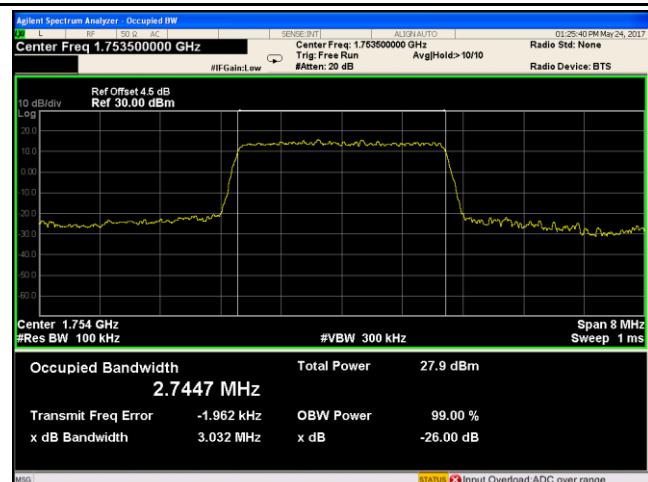
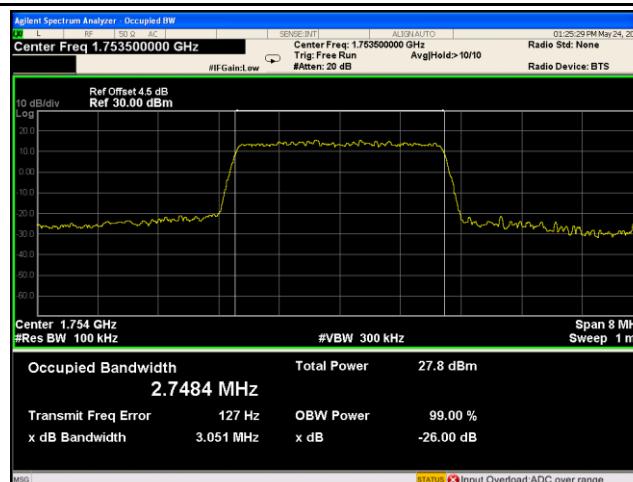




LTE band IV - Low CH QPSK-3

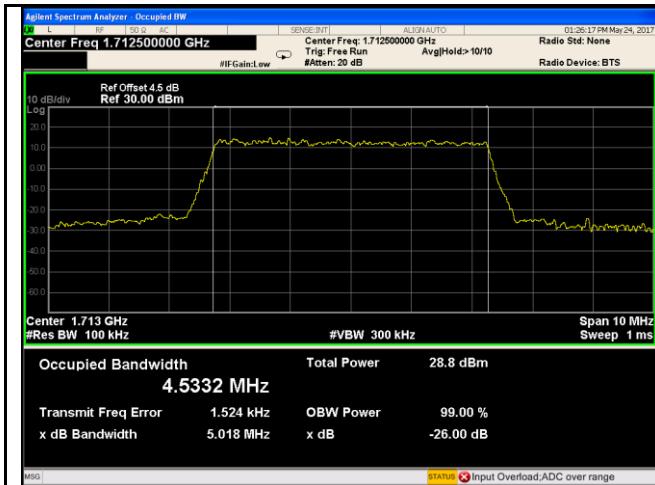


LTE band IV - Middle CH QPSK-3

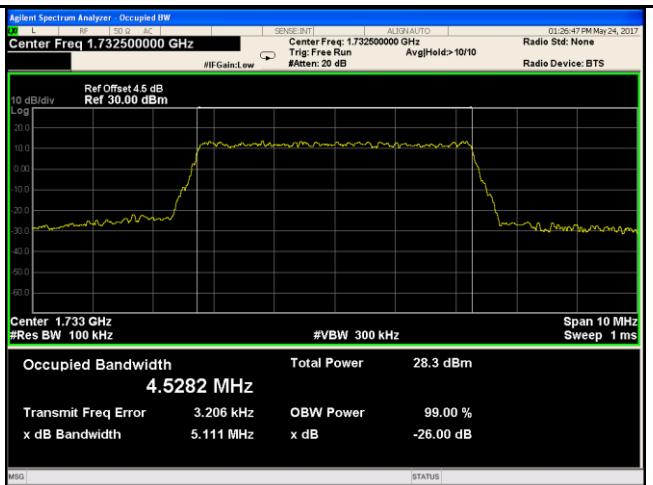


LTE band IV - High CH QPSK-3

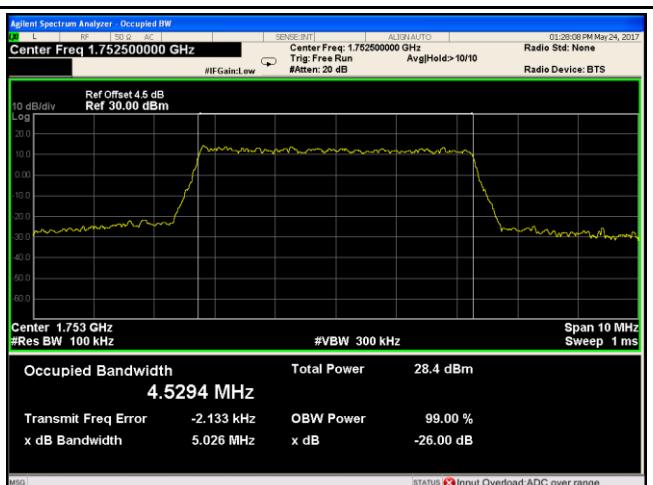
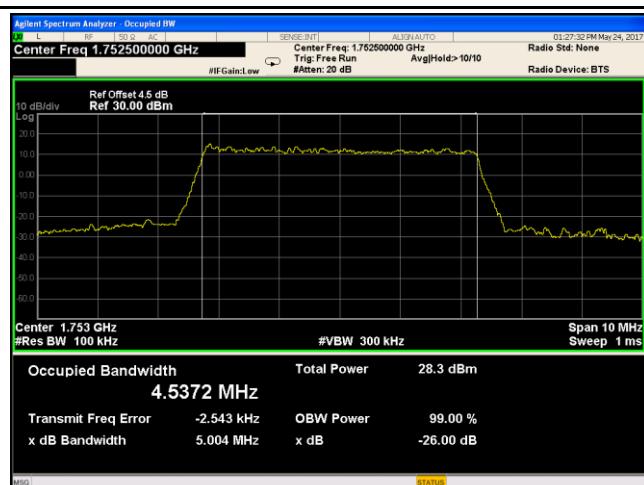
LTE band IV - High CH 16QAM-3



LTE band IV - Low CH QPSK-5

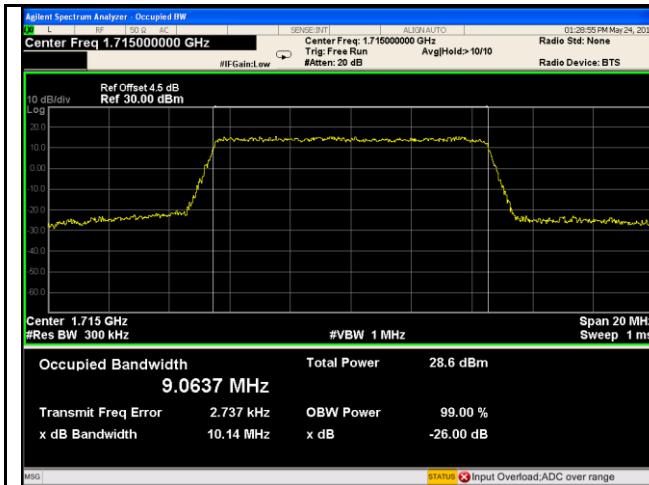


LTE band IV - Middle CH QPSK-5

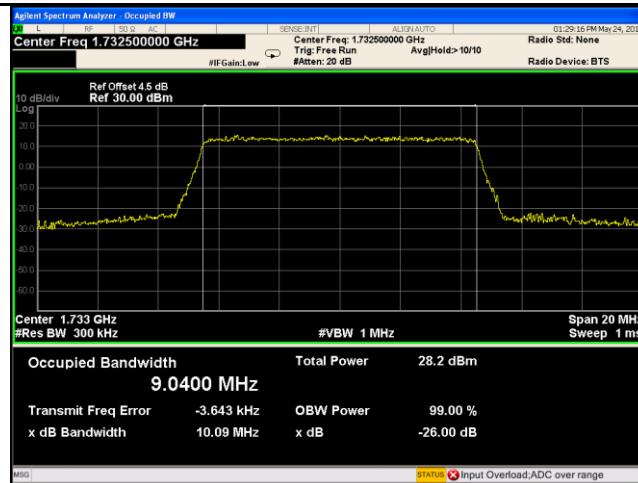


LTE band IV - High CH QPSK-5

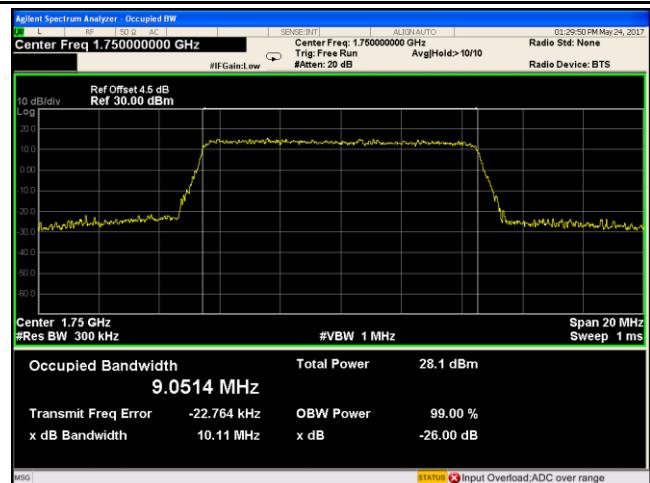
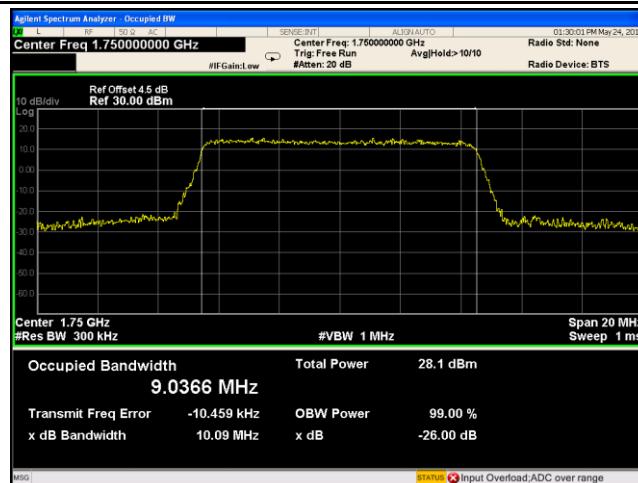
LTE band IV - High CH 16QAM-5



LTE band IV - Low CH QPSK-10

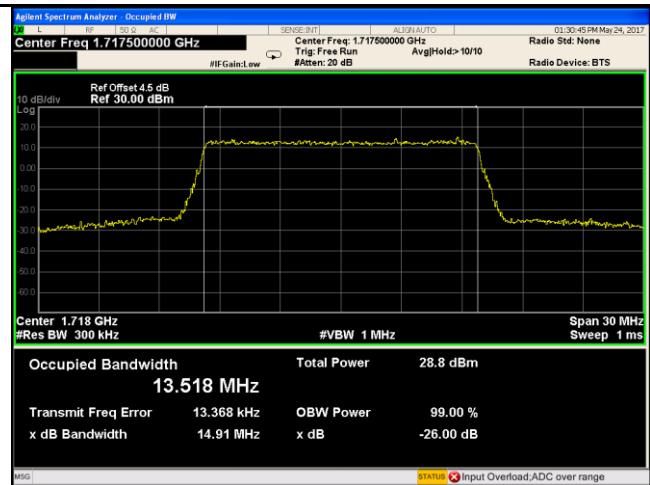
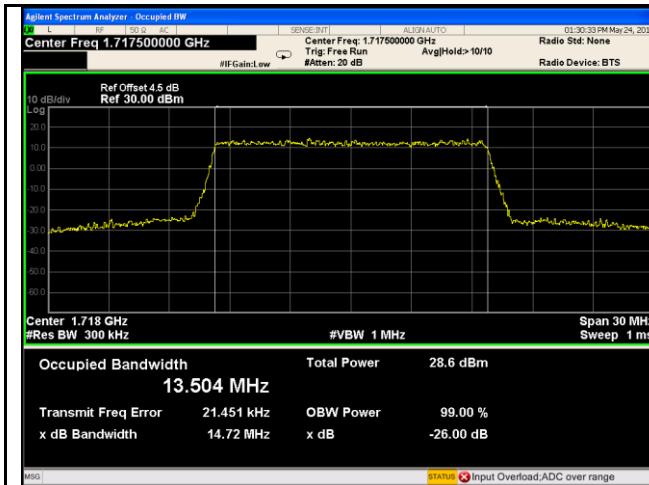


LTE band IV - Middle CH QPSK-10

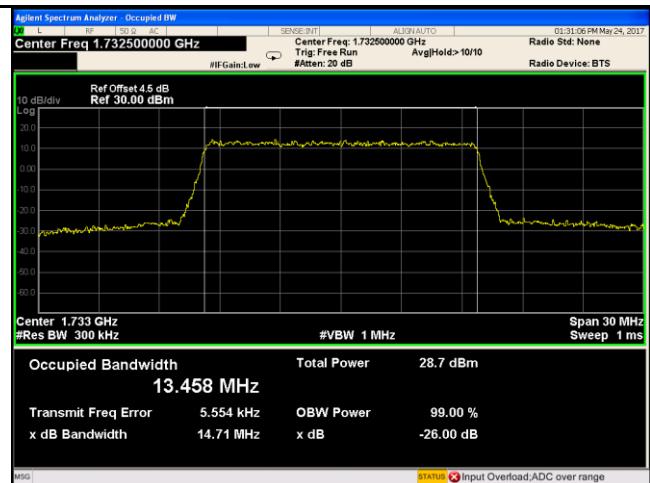
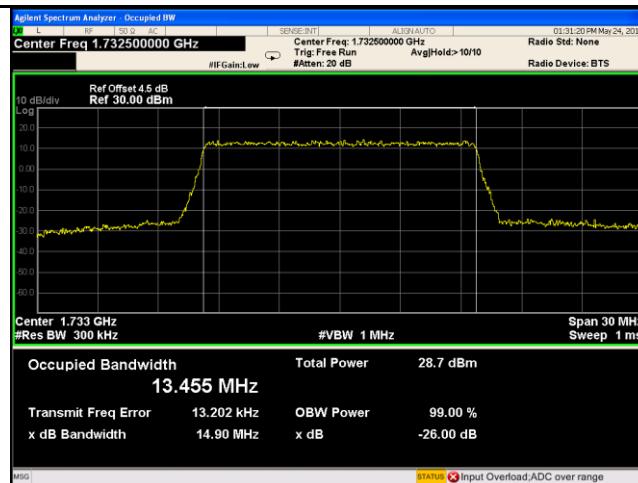


LTE band IV - High CH QPSK-10

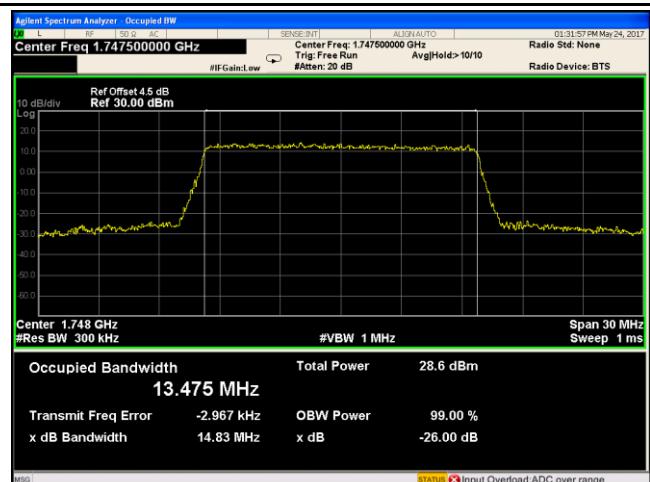
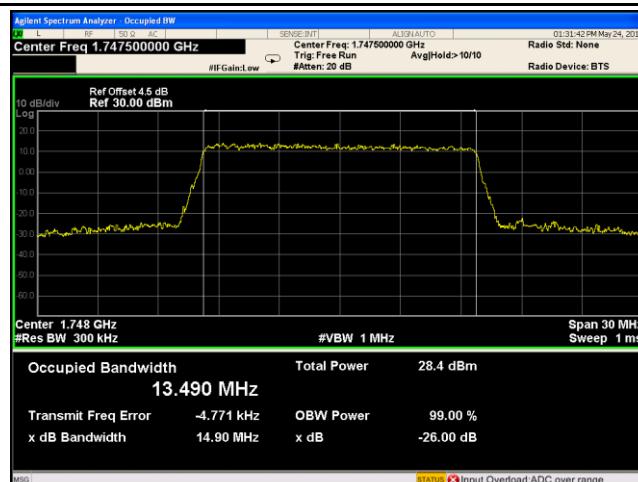
LTE band IV - High CH 16QAM-10



LTE band IV - Low CH QPSK-15

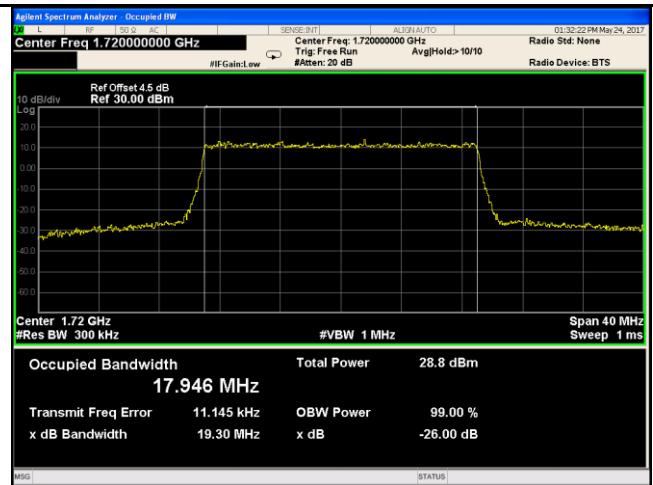
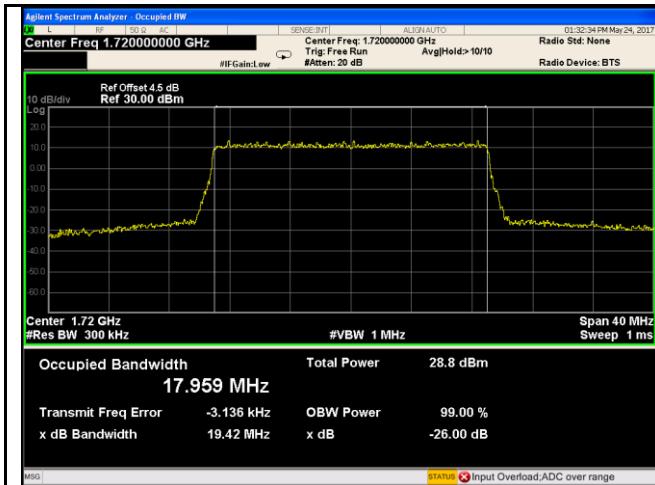


LTE band IV - Middle CH QPSK-15

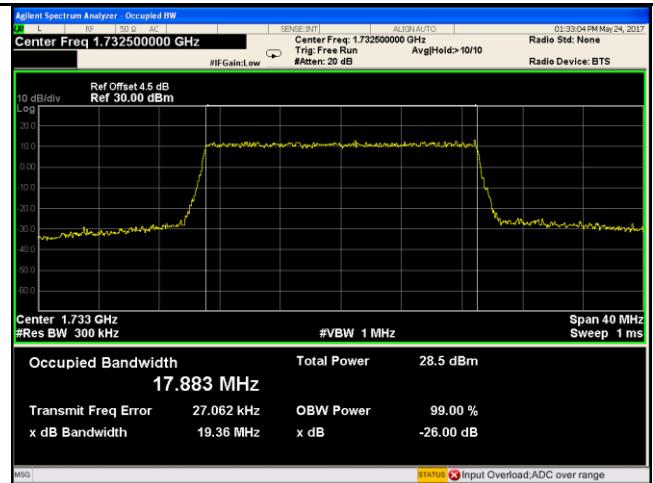
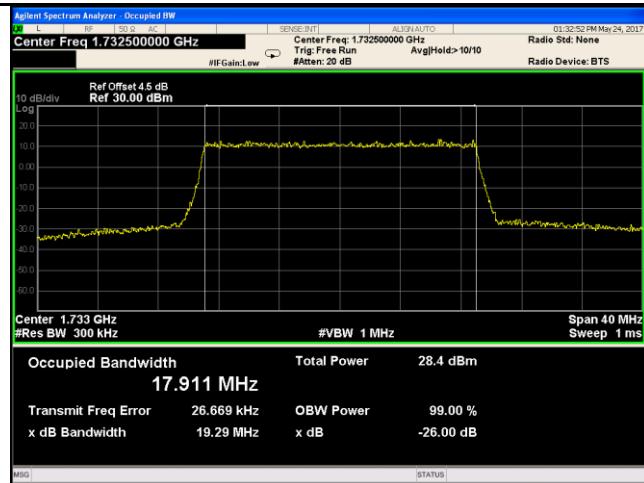


LTE band IV - High CH QPSK-15

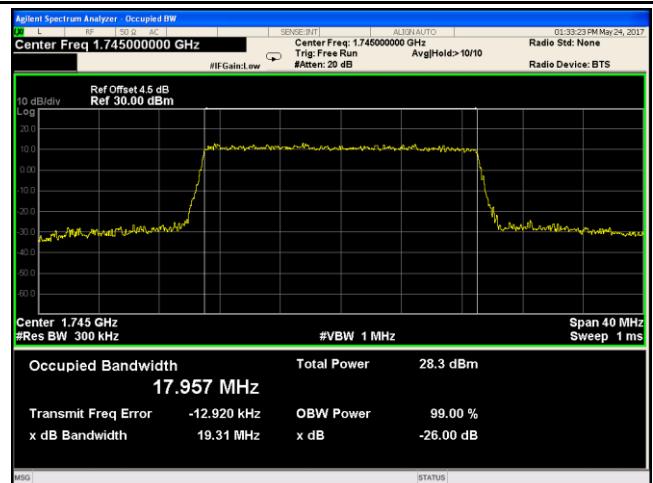
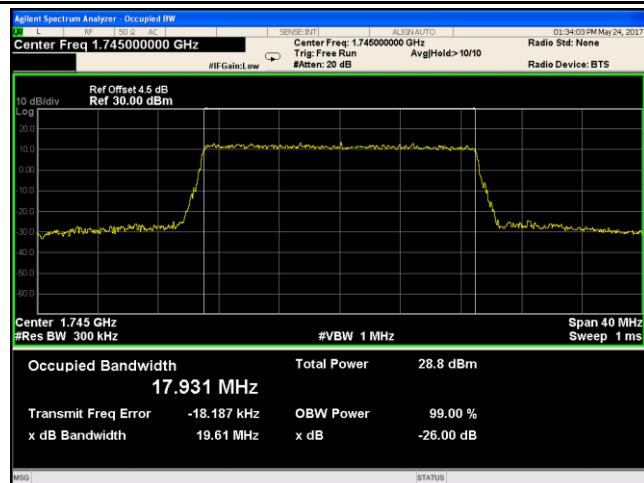
LTE band IV - High CH 16QAM-15



LTE band IV - Low CH QPSK-20



LTE band IV - Middle CH QPSK-20



LTE band IV - High CH QPSK-20

LTE band IV - High CH 16QAM-20

LTE band VII (Part 27)

