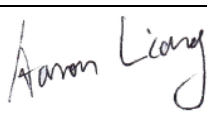
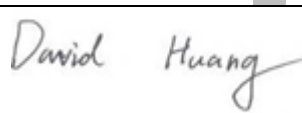



# RF TEST REPORT



Report No.: 18070621-FCC-R5

Supersede Report No.: N/A

Applicant	TECNO MOBILE LIMITED	
Product Name	Mobile Phone	
Model No.	F4	
Serial No.	N/A	
Test Standard	FCC Part 22(H), FCC Part 24(E), FCC Part 27; ANSI/TIA-603-D: 2010	
Test Date	June 17 to July 01, 2018	
Issue Date	July 02, 2018	
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"/>	
		
Aarron Liang Test Engineer	David Huang Checked By	
This test report may be reproduced in full only 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

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

Phone: +86 0755 2601 4629801 Email: [China@siemic.com.cn](mailto: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.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### 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
18070621-FCC-R5	NONE	Original	July 02, 2018

## 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/-4/TH FLOOR,7TH FLOOR, 3RD BUILDING, PACIFIC INDUSTRIAL PARK, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN , GUANGDONG ,CHINA

## 3. Test site information

### Test Lab A:

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.	535293
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

### Test Lab B:

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China
FCC Test Site No.	694825
IC Test Site No.	4842B-1
Test Software	EZ_EMG(ver.lcp-03A1)

Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B.

## 4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone
Main Model:	F4
Serial Model:	N/A
Date EUT received:	June 16, 2018
Test Date(s):	June 17 to July 01, 2018
Equipment Category :	PCE
Antenna Gain:	LTE Band II: -0.8dBi LTE Band IV: -0.8dBi LTE Band V: -2.3dBi LTE Band VII: -0.6dBi
Antenna Type:	PIFA antenna
Type of Modulation:	LTE Band: QPSK, 16QAM
RF Operating Frequency (ies):	LTE Band II TX: 1850.7 ~ 1909.3MHz; RX : 1930.7 ~ 1989.3 MHz LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7~ 2154.3 MHz LTE Band V TX: 824.7~ 848.3 MHz; RX : 869.7 ~ 893.3MHz LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz
Maximum Conducted AV Power to Antenna:	LTE Band II: 22.08 dBm LTE Band IV: 22.05 dBm LTE Band V: 20.87 dBm LTE Band VII: 21.88 dBm
ERP/EIRP:	LTE Band II: 21.28 dBm / EIRP LTE Band IV: 22.66 dBm / EIRP LTE Band V: 16.39 dBm / EIRP LTE Band VII: 21.22 dBm / EIRP
Port:	Please refer to the user' s manual

---

Adapter :  
Model: A8-501000  
Input: AC100-240V~50/60Hz,200mA  
Output: DC 5.0V, 1.0A

Input Power: Battery :  
Model: BL-30VT  
Rating: 3.85V, 3000mAh/3050mAh (min/typ)  
11.55Wh/11.74Wh (min/typ)  
Limited charge voltage: 4.4V

Trade Name : TECNO

FCC ID: 2ADYY-F4

## 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: 18070621-FCC-H.

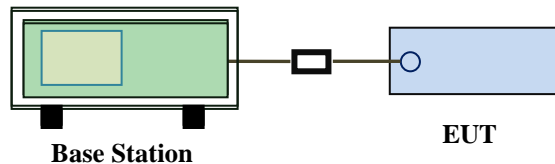
## 6.2 RF Output Power

Temperature	24°C
Relative Humidity	57%
Atmospheric Pressure	1023mbar
Test date :	June 27, 2018
Tested By :	Aarron Liang

### 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 Setup



### Test Procedure

#### For Conducted Power:

- 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.

#### For ERP/EIRP:

- 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"> <li>- 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.</li> <li>- Spurious emissions in dB = 10 log (TX power in Watts/0.001) – the absolute level</li> <li>- Spurious attenuation limit in dB = 43 + 10 Log10 (power out in Watts).</li> </ul>
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
20MHz	18700	1860	QPSK	1	0	0	21.93	21.5±1
				1	49	0	21.9	
				1	99	0	21.88	
				50	0	1	21.18	20.5±1
				50	24	1	21.16	
				50	49	1	21.15	
			100	0	1	21.09		
			16QAM	1	0	1	21.26	20.5±1
				1	49	1	21.23	
				1	99	1	21.21	
				50	0	2	20.18	19.5±1
				50	24	2	20.16	
	50	49		2	20.17			
	100	0	2	20.16				
	18900	1880	QPSK	1	0	0	22.08	21.5±1
				1	49	0	22.05	
				1	99	0	22.03	
				50	0	1	21.33	20.5±1
				50	24	1	21.31	
				50	49	1	21.3	
			100	0	1	21.24		
			16QAM	1	0	1	21.41	20.5±1
				1	49	1	21.38	
				1	99	1	21.36	
50				0	2	20.33	19.5±1	
50				24	2	20.31		
50	49	2		20.32				
100	0	2	20.31					
19100	1900	QPSK	1	0	0	22.05	21.5±1	
			1	49	0	22.02		
			1	99	0	22		
			50	0	1	21.3	20.5±1	

				50	24	1	21.28			
				50	49	1	21.27			
				100	0	1	21.21			
			16QAM			1	0	1	21.38	20.5±1
						1	49	1	21.35	
						1	99	1	21.33	
						50	0	2	20.3	19.5±1
						50	24	2	20.28	
						50	49	2	20.29	
						100	0	2	20.28	

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	21.88	21.5±1
				1	37	0	21.85	
				1	74	0	21.83	
				36	0	1	21.13	20.5±1
				36	16	1	21.11	
				36	35	1	21.1	
			75	0	1	21.04		
			16QAM	1	0	1	21.21	20.5±1
				1	37	1	21.18	
				1	74	1	21.16	
				36	0	2	20.13	19.5±1
				36	16	2	20.11	
	36	35		2	20.12			
	75	0	2	20.11				
	18900	1880	QPSK	1	0	0	22.03	21.5±1
				1	37	0	22	
				1	74	0	21.98	
				36	0	1	21.28	20.5±1
				36	16	1	21.26	
				36	35	1	21.25	
			75	0	1	21.19		
			16QAM	1	0	1	21.36	20.5±1
				1	37	1	21.33	
				1	74	1	21.31	
36				0	2	20.28	19.5±1	
36				16	2	20.26		
36	35	2		20.27				
75	0	2	20.26					
19125	1902.5	QPSK	1	0	0	22	21.5±1	
			1	37	0	21.97		
			1	74	0	21.95		
			36	0	1	21.25	20.5±1	
			36	16	1	21.23		
			36	35	1	21.22		

				75	0	1	21.16	
			16QAM	1	0	1	21.33	20.5±1
				1	37	1	21.3	
				1	74	1	21.28	
				36	0	2	20.25	19.5±1
				36	16	2	20.23	
				36	35	2	20.24	
				75	0	2	20.23	

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	21.85	21.5±1
				1	24	0	21.82	
				1	49	0	21.8	
				25	0	1	21.1	20.5±1
				25	12	1	21.08	
				25	24	1	21.07	
			50	0	1	21.01	16QAM	
			1	0	1	21.18		
			1	24	1	21.15		20.5±1
			1	49	1	21.13		
			25	0	2	20.1		
			25	12	2	20.08		
	25	24	2	20.09	19.5±1			
	50	0	2	20.08				
	18900	1880	QPSK	1		0	0	22
				1	24	0	21.97	
				1	49	0	21.95	
				25	0	1	21.25	20.5±1
				25	12	1	21.23	
				25	24	1	21.22	
			50	0	1	21.16	16QAM	
			1	0	1	21.33		
			1	24	1	21.3		20.5±1
			1	49	1	21.28		
25			0	2	20.25			
25			12	2	20.23			
25	24	2	20.24	19.5±1				
50	0	2	20.23					
19150	1905	QPSK	1		0	0	21.97	21.5±1
			1	24	0	21.94		
			1	49	0	21.92		
			25	0	1	21.22	20.5±1	
			25	12	1	21.2		
			25	24	1	21.19		



				50	0	1	21.13	
			16QAM	1	0	1	21.3	20.5±1
				1	24	1	21.27	
				1	49	1	21.25	
				25	0	2	20.22	19.5±1
				25	12	2	20.2	
				25	24	2	20.21	
				50	0	2	20.2	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
5MHz	18625	1852.5	QPSK	1	0	0	21.83	21.5±1
				1	12	0	21.8	
				1	24	0	21.78	
				12	0	1	21.08	20.5±1
				12	6	1	21.06	
				12	11	1	21.05	
			25	0	1	20.99	16QAM	
			1	0	1	21.16		20.5±1
			1	12	1	21.13		
			1	24	1	21.11		
			12	0	2	20.08		19.5±1
			12	6	2	20.06		
	12	11	2	20.07				
	25	0	2	20.06	QPSK			
	1	0	0	21.98		21.5±1		
	1	12	0	21.95				
	1	24	0	21.93			20.5±1	
	12	0	1	21.23				
	12	6	1	21.21				
	12	11	1	21.2				
	25	0	1	21.14		16QAM		
	1	0	1	21.31				20.5±1
	1	12	1	21.28				
	1	24	1	21.26				
12	0	2	20.23	19.5±1				
12	6	2	20.21					
12	11	2	20.22					
25	0	2	20.21	QPSK				
1	0	0	21.95		21.5±1			
1	12	0	21.92					
1	24	0	21.9			20.5±1		
12	0	1	21.2					
12	6	1	21.18					
12	11	1	21.17					

				25	0	1	21.11	
			16QAM	1	0	1	21.28	20.5±1
				1	12	1	21.25	
				1	24	1	21.23	
				12	0	2	20.2	19.5±1
				12	6	2	20.18	
				12	11	2	20.19	
				25	0	2	20.18	

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	21.8	21.5±1
				1	7	0	21.77	
				1	14	0	21.75	
				8	0	1	21.05	20.5±1
				8	4	1	21.03	
				8	7	1	21.02	
			15	0	1	20.96		
			16QAM	1	0	1	21.13	20.5±1
				1	7	1	21.1	
				1	14	1	21.08	
				8	0	2	20.05	19.5±1
				8	4	2	20.03	
	8	7		2	20.04			
	15	0	2	20.03				
	18900	1880	QPSK	1	0	0	21.95	21.5±1
				1	7	0	21.92	
				1	14	0	21.9	
				8	0	1	21.2	20.5±1
				8	4	1	21.18	
				8	7	1	21.17	
			15	0	1	21.11		
			16QAM	1	0	1	21.28	20.5±1
				1	7	1	21.25	
				1	14	1	21.23	
8				0	2	20.2	19.5±1	
8				4	2	20.18		
8	7	2		20.19				
15	0	2	20.18					
19175	1907.5	QPSK	1	0	0	21.92	21.5±1	
			1	7	0	21.89		
			1	14	0	21.87		
			8	0	1	21.17	20.5±1	
			8	4	1	21.15		
			8	7	1	21.14		

				15	0	1	21.08	
			16QAM	1	0	1	21.25	20.5±1
				1	7	1	21.22	
				1	14	1	21.2	
				8	0	2	20.17	19.5±1
				8	4	2	20.15	
				8	7	2	20.16	
				15	0	2	20.15	

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	21.77	21.5±1
				1	2	0	21.74	
				1	5	0	21.72	
				3	0	0	21.04	20.5±1
				3	1	0	21.02	
				3	2	0	21.01	
			6	0	1	20.93		
			16QAM	1	0	1	21.1	20.5±1
				1	2	1	21.07	
				1	5	1	21.05	
				3	0	1	20.03	19.5±1
				3	1	1	20.01	
	3	2		1	20.02			
	6	0	2	20				
	18900	1880	QPSK	1	0	0	21.92	21.5±1
				1	2	0	21.89	
				1	5	0	21.87	
				3	0	0	21.19	20.5±1
				3	1	0	21.17	
				3	2	0	21.16	
			6	0	1	21.08		
			16QAM	1	0	1	21.25	20.5±1
				1	2	1	21.22	
				1	5	1	21.2	
3				0	1	20.18	19.5±1	
3				1	1	20.16		
3	2	1		20.17				
6	0	2	20.15					
19193	1909.3	QPSK	1	0	0	21.89	21.5±1	
			1	2	0	21.86		
			1	5	0	21.84		
			3	0	0	21.16	20.5±1	
			3	1	0	21.14		

				3	2	0	21.13	
				6	0	1	21.05	
			16QAM	1	0	1	21.22	20.5±1
				1	2	1	21.19	
				1	5	1	21.17	
				3	0	1	20.15	19.5±1
				3	1	1	20.13	
				3	2	1	20.14	
				6	0	2	20.12	

**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	QPSK	1	0	0	22.04	21.5±1
				1	49	0	22.02	
				1	99	0	21.94	
				50	0	1	21.22	20.5±1
				50	24	1	21.2	
				50	49	1	21.18	
			100	0	1	21.13	16QAM	
			1	0	1	21.31		20.5±1
			1	49	1	21.29		
			1	99	1	21.27		
			50	0	2	20.24		19.5±1
			50	24	2	20.22		
	50	49	2	20.2				
	100	0	2	20.21	QPSK			
	1	0	0	22.05		21.5±1		
	1	49	0	22.03				
	1	99	0	21.95				
	50	0	1	21.23		20.5±1		
	50	24	1	21.21				
	50	49	1	21.19				
	100	0	1	21.14		16QAM		
	1	0	1	21.32			20.5±1	
	1	49	1	21.3				
	1	99	1	21.28				
50	0	2	20.25	19.5±1				
50	24	2	20.23					
50	49	2	20.21					
100	0	2	20.22	QPSK				
1	0	0	21.86		21.5±1			
1	49	0	21.84					
1	99	0	21.76					
50	0	1	21.04	20.5±1				



				50	24	1	21.02			
				50	49	1	21			
				100	0	1	20.95			
			16QAM			1	0	1	21.13	20.5±1
						1	49	1	21.11	
						1	99	1	21.09	
						50	0	2	20.06	19.5±1
						50	24	2	20.04	
						50	49	2	20.02	
						100	0	2	20.03	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
15MHz	20025	1717.5	QPSK	1	0	0	22.01	21.5±1
				1	37	0	21.99	
				1	74	0	21.91	
				36	0	1	21.19	20.5±1
				36	16	1	21.17	
				36	35	1	21.15	
			75	0	1	21.1		
			16QAM	1	0	1	21.28	20.5±1
				1	37	1	21.26	
				1	74	1	21.24	
				36	0	2	20.21	19.5±1
				36	16	2	20.19	
	36	35		2	20.17			
	75	0	2	20.18				
	20175	1732.5	QPSK	1	0	0	22.02	21.5±1
				1	37	0	22	
				1	74	0	21.92	
				36	0	1	21.2	20.5±1
				36	16	1	21.18	
				36	35	1	21.16	
			75	0	1	21.11		
			16QAM	1	0	1	21.29	20.5±1
				1	37	1	21.27	
				1	74	1	21.25	
36				0	2	20.22	19.5±1	
36				16	2	20.2		
36	35	2		20.18				
75	0	2	20.19					
20325	1747.5	QPSK	1	0	0	21.83	21.5±1	
			1	37	0	21.81		
			1	74	0	21.73		
			36	0	1	21.01	20.5±1	
			36	16	1	20.99		
			36	35	1	20.97		

				75	0	1	20.92	
			16QAM	1	0	1	21.1	20.5±1
				1	37	1	21.08	
				1	74	1	21.06	
				36	0	2	20.03	19.5±1
				36	16	2	20.01	
				36	35	2	19.99	
				75	0	2	20	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
10MHz	20000	1715	QPSK	1	0	0	21.95	21.5±1
				1	24	0	21.93	
				1	49	0	21.85	
				25	0	1	21.13	20.5±1
				25	12	1	21.11	
				25	24	1	21.09	
			50	0	1	21.04		
			16QAM	1	0	1	21.22	20.5±1
				1	24	1	21.2	
				1	49	1	21.18	
				25	0	2	20.15	19.5±1
				25	12	2	20.13	
	25	24		2	20.11			
	50	0	2	20.12				
	20175	1732.5	QPSK	1	0	0	21.96	21.5±1
				1	24	0	21.94	
				1	49	0	21.86	
				25	0	1	21.14	20.5±1
				25	12	1	21.12	
				25	24	1	21.1	
			50	0	1	21.05		
			16QAM	1	0	1	21.23	20.5±1
				1	24	1	21.21	
				1	49	1	21.19	
25				0	2	20.16	19.5±1	
25				12	2	20.14		
25	24	2		20.12				
50	0	2	20.13					
20350	1750	QPSK	1	0	0	21.77	21.5±1	
			1	24	0	21.75		
			1	49	0	21.67		
			25	0	1	20.95	20.5±1	
			25	12	1	20.93		
			25	24	1	20.91		

				50	0	1	20.86	
			16QAM	1	0	1	21.04	20.5±1
				1	24	1	21.02	
				1	49	1	21	
				25	0	2	19.97	19.5±1
				25	12	2	19.95	
				25	24	2	19.93	
				50	0	2	19.94	

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	21.91	21.5±1
				1	12	0	21.89	
				1	24	0	21.81	
				12	0	1	21.09	20.5±1
				12	6	1	21.07	
				12	11	1	21.05	
			25	0	1	21	16QAM	
			1	0	1	21.18		20.5±1
			1	12	1	21.16		
			1	24	1	21.14		
			12	0	2	20.11		19.5±1
			12	6	2	20.09		
	12	11	2	20.07				
	25	0	2	20.08	QPSK			
	1	0	0	21.92		21.5±1		
	1	12	0	21.9				
	1	24	0	21.82				
	12	0	1	21.1		20.5±1		
	12	6	1	21.08				
	12	11	1	21.06				
	25	0	1	21.01		16QAM		
	1	0	1	21.19			20.5±1	
	1	12	1	21.17				
	1	24	1	21.15				
12	0	2	20.12	19.5±1				
12	6	2	20.1					
12	11	2	20.08					
25	0	2	20.09	QPSK				
1	0	0	21.73		21.5±1			
1	12	0	21.71					
1	24	0	21.63					
12	0	1	20.91		20.5±1			
12	6	1	20.89					
12	11	1	20.87					

				25	0	1	20.82	
			16QAM	1	0	1	21	20.5±1
				1	12	1	20.98	
				1	24	1	20.96	
				12	0	2	19.93	19.5±1
				12	6	2	19.91	
				12	11	2	19.89	
				25	0	2	19.9	

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	21.88	21.5±1
				1	7	0	21.86	
				1	14	0	21.78	
				8	0	1	21.06	20.5±1
				8	4	1	21.04	
				8	7	1	21.02	
			15	0	1	20.97	16QAM	
			1	0	1	21.15		20.5±1
			1	7	1	21.13		
			1	14	1	21.11		
			8	0	2	20.08		19.5±1
			8	4	2	20.06		
	8	7	2	20.04				
	15	0	2	20.05	QPSK			
	1	0	0	21.89		21.5±1		
	1	7	0	21.87				
	1	14	0	21.79			20.5±1	
	8	0	1	21.07				
	8	4	1	21.05				
	8	7	1	21.03				
	15	0	1	20.98		16QAM		
	1	0	1	21.16				20.5±1
	1	7	1	21.14				
	1	14	1	21.12				
8	0	2	20.09	19.5±1				
8	4	2	20.07					
8	7	2	20.05					
15	0	2	20.06	QPSK				
1	0	0	21.7		21.5±1			
1	7	0	21.68					
1	14	0	21.6			20.5±1		
8	0	1	20.88					
8	4	1	20.86					
8	7	1	20.84					



				15	0	1	20.79	
			16QAM	1	0	1	20.97	20.5±1
				1	7	1	20.95	
				1	14	1	20.93	
				8	0	2	19.9	
				8	4	2	19.88	19.5±1
				8	7	2	19.86	
				15	0	2	19.87	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
1.4MHz	19957	1710.7	QPSK	1	0	0	21.87	21.5±1
				1	2	0	21.85	
				1	5	0	21.77	
				3	0	0	21.04	20.5±1
				3	1	0	21.02	
				3	2	0	21	
			6	0	1	20.96	16QAM	
			1	0	1	21.14		20.5±1
			1	2	1	21.12		
			1	5	1	21.1		
			3	0	1	20.07		19.5±1
			3	1	1	20.05		
	3	2	1	20.03				
	6	0	2	20.04	QPSK			
	20175	1732.5	1	0		0	21.88	21.5±1
			1	2		0	21.86	
			1	5		0	21.78	
			3	0		0	21.05	20.5±1
			3	1		0	21.03	
			3	2		0	21.01	
	6	0	1	20.97		16QAM		
	1	0	1	21.15			20.5±1	
	1	2	1	21.13				
	1	5	1	21.11				
3	0	1	20.08	19.5±1				
3	1	1	20.06					
3	2	1	20.04					
6	0	2	20.05	QPSK				
20393	1754.3	1	0		0	21.69	21.5±1	
		1	2		0	21.67		
		1	5		0	21.59		
		3	0		0	20.86	20.5±1	
		3	1		0	20.84		
		3	2	0	20.82			

				6	0	1	20.78	
			16QAM	1	0	1	20.96	20.5±1
				1	2	1	20.94	
				1	5	1	20.92	
				3	0	1	19.89	19.5±1
				3	1	1	19.87	
				3	2	1	19.85	
				6	0	2	19.86	

**LTE Band V:**

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
5MHz	20425	826.5	QPSK	1	0	0	20.81	20.5±1
				1	24	0	20.8	
				1	49	0	20.78	
				25	0	1	19.82	19.5±1
				25	12	1	19.79	
				25	24	1	19.78	
				50	0	1	19.79	
			16QAM	1	0	1	19.89	19.5±1
				1	24	1	19.87	
				1	49	1	19.85	
				25	0	2	18.83	18.5±1
				25	12	2	18.79	
				25	24	2	18.75	
				50	0	2	18.86	
	20525	836.5	QPSK	1	0	0	20.84	20.5±1
				1	24	0	20.83	
				1	49	0	20.81	
				25	0	1	19.85	19.5±1
				25	12	1	19.82	
				25	24	1	19.81	
				50	0	1	19.82	
			16QAM	1	0	1	19.92	19.5±1
				1	24	1	19.9	
				1	49	1	19.88	
				25	0	2	18.86	18.5±1
				25	12	2	18.82	
				25	24	2	18.78	
50				0	2	18.89		
20625	846.5	QPSK	1	0	0	20.82	20.5±1	
			1	24	0	20.81		
			1	49	0	20.79		

				25	0	1	19.83	19.5±1						
				25	12	1	19.8							
				25	24	1	19.79							
				50	0	1	19.8							
			16QAM				1	0	1	19.9	19.5±1			
							1	24	1	19.88				
							1	49	1	19.86				
									16QAM	25	0	2	18.84	18.5±1
										25	12	2	18.8	
										25	24	2	18.76	
										50	0	2	18.87	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
10MHz	20450	829	QPSK	1	0	0	20.84	20.5±1
				1	12	0	20.83	
				1	24	0	20.81	
				12	0	1	19.85	19.5±1
				12	6	1	19.82	
				12	11	1	19.81	
			25	0	1	19.82	16QAM	
			1	0	1	19.92		
			1	12	1	19.9		
			1	24	1	19.88		
			12	0	2	18.86		
			12	6	2	18.82		
	12	11	2	18.78				
	25	0	2	18.89	QPSK			
	1	0	0	20.87		20.5±1		
	1	12	0	20.86				
	1	24	0	20.84				
	12	0	1	19.88		19.5±1		
	12	6	1	19.85				
	12	11	1	19.84				
	25	0	1	19.85		16QAM		
	1	0	1	19.95				
	1	12	1	19.93				
	1	24	1	19.91				
12	0	2	18.89					
12	6	2	18.85					
12	11	2	18.81					
25	0	2	18.92	QPSK				
1	0	0	20.85		20.5±1			
1	12	0	20.84					
1	24	0	20.82					
12	0	1	19.86		19.5±1			
12	6	1	19.83					
12	11	1	19.82					

				25	0	1	19.83	
			16QAM	1	0	1	19.93	19.5±1
				1	12	1	19.91	
				1	24	1	19.89	
				12	0	2	18.87	18.5±1
				12	6	2	18.83	
				12	11	2	18.79	
				25	0	2	18.9	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
3MHz	20415	825.5	QPSK	1	0	0	20.75	20.5±1
				1	7	0	20.74	
				1	14	0	20.72	
				8	0	1	19.76	19.5±1
				8	4	1	19.73	
				8	7	1	19.72	
			15	0	1	19.73		
			16QAM	1	0	1	19.83	19.5±1
				1	7	1	19.81	
				1	14	1	19.79	
				8	0	2	18.77	18.5±1
				8	4	2	18.73	
	8	7		2	18.69			
	15	0	2	18.8				
	20525	836.5	QPSK	1	0	0	20.78	20.5±1
				1	7	0	20.77	
				1	14	0	20.75	
				8	0	1	19.79	19.5±1
				8	4	1	19.76	
				8	7	1	19.75	
			15	0	1	19.76		
			16QAM	1	0	1	19.86	19.5±1
				1	7	1	19.84	
				1	14	1	19.82	
8				0	2	18.8	18.5±1	
8				4	2	18.76		
8	7	2		18.72				
15	0	2	18.83					
20635	847.5	QPSK	1	0	0	20.76	20.5±1	
			1	7	0	20.75		
			1	14	0	20.73		
			8	0	1	19.77	19.5±1	
			8	4	1	19.74		
			8	7	1	19.73		



				15	0	1	19.74	
			16QAM	1	0	1	19.84	19.5±1
				1	7	1	19.82	
				1	14	1	19.8	
				8	0	2	18.78	18.5±1
				8	4	2	18.74	
				8	7	2	18.7	
				15	0	2	18.81	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
1.4MHz	20407	824.7	QPSK	1	0	0	20.71	20.5±1
				1	2	0	20.7	
				1	5	0	20.68	
				3	0	0	19.74	19.5±1
				3	1	0	19.71	
				3	2	0	19.7	
			6	0	1	19.69		
			16QAM	1	0	1	19.79	19.5±1
				1	2	1	19.77	
				1	5	1	19.75	
				3	0	1	18.76	18.5±1
				3	1	1	18.72	
	3	2		1	18.68			
	6	0	2	18.76				
	20525	836.5	QPSK	1	0	0	20.74	20.5±1
				1	2	0	20.73	
				1	5	0	20.71	
				3	0	0	19.77	19.5±1
				3	1	0	19.74	
				3	2	0	19.73	
			6	0	1	19.72		
			16QAM	1	0	1	19.82	19.5±1
				1	2	1	19.8	
				1	5	1	19.78	
3				0	1	18.79	18.5±1	
3				1	1	18.75		
3	2	1		18.71				
6	0	2	18.79					
20643	848.3	QPSK	1	0	0	20.72	20.5±1	
			1	2	0	20.71		
			1	5	0	20.69		
			3	0	0	19.75	19.5±1	
			3	1	0	19.72		
			3	2	0	19.71		

				6	0	1	19.7	
			16QAM	1	0	1	19.8	19.5±1
				1	2	1	19.78	
				1	5	1	19.76	
				3	0	1	18.77	
				3	1	1	18.73	18.5±1
				3	2	1	18.69	
				6	0	2	18.77	

**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	21.84	21.5±1
				1	49	0	21.7	
				1	99	0	21.64	
				50	0	1	21.09	20.5±1
				50	24	1	21.07	
				50	49	1	21.06	
			100	0	1	21.08	20.5±1	
			16QAM	1	0	1		21.18
				1	49	1		21.16
				1	99	1		21.13
				50	0	2		20.08
				50	24	2		20.07
	50	49		2	20.06			
	100	0	2	20.1	21.5±1			
	QPSK	1	0	0		21.88		
		1	49	0		21.74		
		1	99	0		21.68		
		50	0	1		21.13		
		50	24	1		21.11		
		50	49	1		21.1		
	100	0	1	21.12		20.5±1		
	16QAM	1	0	1			21.22	
		1	49	1			21.2	
		1	99	1			21.17	
50		0	2	20.12				
50		24	2	20.11				
50		49	2	20.1				
100	0	2	20.14	21.5±1				
QPSK	1	0	0		21.82			
	1	49	0		21.68			
	1	99	0		21.62			
	50	0	1	21.07				

				50	24	1	21.05			
				50	49	1	21.04			
				100	0	1	21.06			
			16QAM			1	0	1	21.16	20.5±1
						1	49	1	21.14	
						1	99	1	21.11	
						50	0	2	20.06	19.5±1
						50	24	2	20.05	
						50	49	2	20.04	
						100	0	2	20.08	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
15MHz	20825	2507.5	QPSK	1	0	0	21.81	21.5±1
				1	37	0	21.67	
				1	74	0	21.61	
				36	0	1	21.06	20.5±1
				36	16	1	21.04	
				36	35	1	21.03	
			16QAM	75	0	1	21.05	20.5±1
				1	0	1	21.15	
				1	37	1	21.13	
				1	74	1	21.1	
				36	0	2	20.05	
				36	16	2	20.04	
	16QAM	36	35	2	20.03	19.5±1		
		36	35	2	20.03			
		75	0	2	20.07			
		QPSK	1	0	0		21.85	21.5±1
			1	37	0		21.71	
			1	74	0		21.65	
	QPSK		36	0	1	21.1	20.5±1	
			36	16	1	21.08		
			36	35	1	21.07		
		75	0	1	21.09			
		16QAM	1	0	1	21.19		20.5±1
			1	37	1	21.17		
1	74		1	21.14				
16QAM	36		0	2	20.09	19.5±1		
	36		16	2	20.08			
	36		35	2	20.07			
	75	0	2	20.11				
	QPSK	1	0	0	21.79		21.5±1	
		1	37	0	21.65			
1		74	0	21.59				
QPSK		36	0	1	21.04	20.5±1		
		36	16	1	21.02			
		36	35	1	21.01			

				75	0	1	21.03	
			16QAM	1	0	1	21.13	20.5±1
				1	37	1	21.11	
				1	74	1	21.08	
				36	0	2	20.03	
				36	16	2	20.02	19.5±1
				36	35	2	20.01	
				75	0	2	20.05	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
10MHz	20800	2505	QPSK	1	0	0	21.75	21.5±1
				1	24	0	21.61	
				1	49	0	21.55	
				25	0	1	21	20.5±1
				25	12	1	20.98	
				25	24	1	20.97	
			50	0	1	20.99	20.5±1	
			1	0	1	21.09		
			1	24	1	21.07		
			1	49	1	21.04	19.5±1	
			25	0	2	19.99		
			25	12	2	19.98		
	25	24	2	19.97				
	50	0	2	20.01	21.5±1			
	1	0	0	21.79				
	1	24	0	21.65				
	1	49	0	21.59				
	25	0	1	21.04		20.5±1		
	25	12	1	21.02				
	25	24	1	21.01				
	50	0	1	21.03	20.5±1			
	1	0	1	21.13				
	1	24	1	21.11				
	1	49	1	21.08	19.5±1			
25	0	2	20.03					
25	12	2	20.02					
25	24	2	20.01					
50	0	2	20.05	21.5±1				
1	0	0	21.73					
1	24	0	21.59					
1	49	0	21.53					
25	0	1	20.98		20.5±1			
25	12	1	20.96					
25	24	1	20.95					



				50	0	1	20.97	
			16QAM	1	0	1	21.07	20.5±1
				1	24	1	21.05	
				1	49	1	21.02	
				25	0	2	19.97	
				25	12	2	19.96	19.5±1
				25	24	2	19.95	
				50	0	2	19.99	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	Tune up Power tolerant
5MHz	20775	2502.5	QPSK	1	0	0	21.71	21.5±1
				1	12	0	21.57	
				1	24	0	21.51	
				12	0	1	20.96	20.5±1
				12	6	1	20.94	
				12	11	1	20.93	
			25	0	1	20.95	16QAM	
			1	0	1	21.05		20.5±1
			1	12	1	21.03		
			1	24	1	21		
			12	0	2	19.95		19.5±1
			12	6	2	19.94		
	12	11	2	19.93				
	25	0	2	19.97	QPSK			
	1	0	0	21.75		21.5±1		
	1	12	0	21.61				
	1	24	0	21.55				
	12	0	1	21		20.5±1		
	12	6	1	20.98				
	12	11	1	20.97				
	25	0	1	20.99		16QAM		
	1	0	1	21.09			20.5±1	
	1	12	1	21.07				
	1	24	1	21.04				
12	0	2	19.99	19.5±1				
12	6	2	19.98					
12	11	2	19.97					
25	0	2	20.01	QPSK				
1	0	0	21.69		21.5±1			
1	12	0	21.55					
1	24	0	21.49					
12	0	1	20.94		20.5±1			
12	6	1	20.92					
12	11	1	20.91					

				25	0	1	20.93	
			16QAM	1	0	1	21.03	20.5±1
				1	12	1	21.01	
				1	24	1	20.98	
				12	0	2	19.93	19.5±1
				12	6	2	19.92	
				12	11	2	19.91	
				25	0	2	19.95	

## ERP & EIRP

### EIRP for LTE Band II (Part 24E)

Frequency (MHz)	Channel Bandwidth (MHz)	Mod.	RB Size/Offset	Antenna Polarization (H/V)	Absolute Level (dBm)	Limit (dBm)
1850.7	1.4	QPSK	1/0	V	20.97	33.01
1880	1.4	QPSK	1/0	V	21.12	33.01
1909.3	1.4	QPSK	1/0	V	21.09	33.01
1850.7	1.4	QPSK	1/0	H	18.72	33.01
1880	1.4	QPSK	1/0	H	18.86	33.01
1909.3	1.4	QPSK	1/0	H	19.28	33.01
1850.7	1.4	16-QAM	1/0	V	20.3	33.01
1880	1.4	16-QAM	1/0	V	20.45	33.01
1909.3	1.4	16-QAM	1/0	V	20.42	33.01
1850.7	1.4	16-QAM	1/0	H	18.62	33.01
1880	1.4	16-QAM	1/0	H	19.42	33.01
1909.3	1.4	16-QAM	1/0	H	18.82	33.01
1851.5	3	QPSK	1/0	V	21	33.01
1880	3	QPSK	1/0	V	21.15	33.01
1908.5	3	QPSK	1/0	V	21.12	33.01
1851.5	3	QPSK	1/0	H	19.36	33.01
1880	3	QPSK	1/0	H	19.08	33.01
1908.5	3	QPSK	1/0	H	19.37	33.01
1851.5	3	16-QAM	1/0	V	20.33	33.01
1880	3	16-QAM	1/0	V	20.48	33.01
1908.5	3	16-QAM	1/0	V	20.45	33.01
1851.5	3	16-QAM	1/0	H	18.99	33.01
1880	3	16-QAM	1/0	H	18.84	33.01
1908.5	3	16-QAM	1/0	H	19.22	33.01
1852.5	5	QPSK	1/24	V	20.98	33.01
1880	5	QPSK	1/0	V	21.18	33.01
1907.5	5	QPSK	1/24	V	21.1	33.01
1852.5	5	QPSK	1/24	H	19.01	33.01

1880	5	QPSK	1/0	H	20.11	33.01
1907.5	5	QPSK	1/24	H	18.77	33.01
1852.5	5	16-QAM	1/24	V	20.31	33.01
1880	5	16-QAM	1/0	V	20.51	33.01
1907.5	5	16-QAM	1/24	V	20.43	33.01
1852.5	5	16-QAM	1/24	H	18.1	33.01
1880	5	16-QAM	1/0	H	18.99	33.01
1907.5	5	16-QAM	1/24	H	18.06	33.01
1855	10	QPSK	1/0	V	21.05	33.01
1880	10	QPSK	1/0	V	21.2	33.01
1905	10	QPSK	1/49	V	21.12	33.01
1855	10	QPSK	1/0	H	19.85	33.01
1880	10	QPSK	1/0	H	20.06	33.01
1905	10	QPSK	1/49	H	18.71	33.01
1855	10	16-QAM	1/0	V	20.38	33.01
1880	10	16-QAM	1/0	V	20.53	33.01
1905	10	16-QAM	1/49	V	20.45	33.01
1855	10	16-QAM	1/0	H	18.6	33.01
1880	10	16-QAM	1/0	H	18.25	33.01
1905	10	16-QAM	1/49	H	19.26	33.01
1857.5	15	QPSK	1/0	V	21.08	33.01
1880	15	QPSK	1/0	V	21.23	33.01
1902.5	15	QPSK	1/0	V	21.2	33.01
1857.5	15	QPSK	1/0	H	19.39	33.01
1880	15	QPSK	1/0	H	19.05	33.01
1902.5	15	QPSK	1/0	H	19.73	33.01
1857.5	15	16-QAM	1/0	V	20.41	33.01
1880	15	16-QAM	1/0	V	20.56	33.01
1902.5	15	16-QAM	1/0	V	20.53	33.01
1857.5	15	16-QAM	1/0	H	17.91	33.01
1880	15	16-QAM	1/0	H	19.26	33.01
1902.5	15	16-QAM	1/0	H	18.46	33.01
1860	20	QPSK	1/0	V	21.13	33.01
1880	20	QPSK	1/0	V	21.28	33.01
1900	20	QPSK	1/0	V	21.25	33.01

1860	20	QPSK	1/0	H	20	33.01
1880	20	QPSK	1/0	H	19.1	33.01
1900	20	QPSK	1/0	H	19.9	33.01
1860	20	16-QAM	1/0	V	20.46	33.01
1880	20	16-QAM	1/0	V	20.61	33.01
1900	20	16-QAM	1/0	V	20.58	33.01
1860	20	16-QAM	1/0	H	19.46	33.01
1880	20	16-QAM	1/0	H	18.33	33.01
1900	20	16-QAM	1/0	H	18.67	33.01

### EIRP for LTE Band IV (Part 27)

Frequency (MHz)	Channel Bandwidth (MHz)	Mod.	RB Size/Offset	Antenna Polarization (H/V)	Absolute Level (dBm)	Limit (dBm)
1710.7	1.4	QPSK	1/0	V	22.4	30
1732.5	1.4	QPSK	1/0	V	22.45	30
1754.3	1.4	QPSK	1/0	V	22.53	30
1710.7	1.4	QPSK	1/0	H	20.35	30
1732.5	1.4	QPSK	1/0	H	20.77	30
1754.3	1.4	QPSK	1/0	H	21.1	30
1710.7	1.4	16-QAM	1/5	V	21.31	30
1732.5	1.4	16-QAM	1/0	V	21.36	30
1754.3	1.4	16-QAM	1/0	V	21.29	30
1710.7	1.4	16-QAM	1/5	H	19.99	30
1732.5	1.4	16-QAM	1/0	H	20.22	30
1754.3	1.4	16-QAM	1/0	H	19.63	30
1711.5	3	QPSK	1/0	V	22.41	30
1732.5	3	QPSK	1/0	V	22.47	30
1753.5	3	QPSK	1/0	V	22.57	30
1711.5	3	QPSK	1/0	H	21.18	30
1732.5	3	QPSK	1/0	H	20.15	30
1753.5	3	QPSK	1/0	H	20.12	30
1711.5	3	16-QAM	1/0	V	21.23	30
1732.5	3	16-QAM	1/0	V	21.42	30
1753.5	3	16-QAM	1/0	V	22.01	30
1711.5	3	16-QAM	1/0	H	19.37	30
1732.5	3	16-QAM	1/0	H	19.26	30
1753.5	3	16-QAM	1/0	H	20.69	30
1712.5	5	QPSK	1/0	V	22.42	30
1732.5	5	QPSK	1/0	V	22.43	30
1752.5	5	QPSK	1/24	V	22.66	30
1712.5	5	QPSK	1/0	H	21.15	30
1732.5	5	QPSK	1/0	H	21.28	30
1752.5	5	QPSK	1/24	H	20.65	30
1712.5	5	16-QAM	1/0	V	21.77	30

1732.5	5	16-QAM	1/0	V	21.45	30
1752.5	5	16-QAM	1/24	V	21.55	30
1712.5	5	16-QAM	1/0	H	19.42	30
1732.5	5	16-QAM	1/0	H	18.95	30
1752.5	5	16-QAM	1/24	H	19.95	30
1715	10	QPSK	1/0	V	22.48	30
1732.5	10	QPSK	1/49	V	22.41	30
1750	10	QPSK	1/0	V	22.4	30
1715	10	QPSK	1/0	H	21.18	30
1732.5	10	QPSK	1/49	H	21.17	30
1750	10	QPSK	1/0	H	20.54	30
1715	10	16-QAM	1/0	V	21.29	30
1732.5	10	16-QAM	1/49	V	21.44	30
1750	10	16-QAM	1/0	V	22.05	30
1715	10	16-QAM	1/0	H	20.16	30
1732.5	10	16-QAM	1/49	H	20.14	30
1750	10	16-QAM	1/0	H	19.98	30
1717.5	15	QPSK	1/0	V	22.51	30
1732.5	15	QPSK	1/74	V	22.43	30
1747.5	15	QPSK	1/0	V	22.57	30
1717.5	15	QPSK	1/0	H	21.5	30
1732.5	15	QPSK	1/74	H	20.68	30
1747.5	15	QPSK	1/0	H	20.58	30
1717.5	15	16-QAM	1/0	V	21.32	30
1732.5	15	16-QAM	1/74	V	21.57	30
1747.5	15	16-QAM	1/0	V	22.07	30
1717.5	15	16-QAM	1/0	H	19.3	30
1732.5	15	16-QAM	1/74	H	19.77	30
1747.5	15	16-QAM	1/0	H	20.71	30
1720	20	QPSK	1/99	V	22.51	30
1732.5	20	QPSK	1/99	V	22.49	30
1745	20	QPSK	1/0	V	22.66	30
1720	20	QPSK	1/99	H	21.04	30
1732.5	20	QPSK	1/99	H	20.89	30
1745	20	QPSK	1/0	H	20.37	30



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1720	20	16-QAM	1/99	V	21.37	30
1732.5	20	16-QAM	1/99	V	21.92	30
1745	20	16-QAM	1/0	V	21.57	30
1720	20	16-QAM	1/99	H	19.18	30
1732.5	20	16-QAM	1/99	H	19.93	30
1745	20	16-QAM	1/0	H	19.95	30

### EIRP for LTE Band V (Part 22)

Frequency (MHz)	Channel Bandwidth (MHz)	Mod.	RB Size/Offset	Antenna Polarization (H/V)	Absolute Level (dBm)	Limit (dBm)
824.7	1.4	QPSK	1/5	V	16.25	34.77
836.5	1.4	QPSK	1/5	V	16.28	34.77
848.3	1.4	QPSK	1/5	V	16.26	34.77
824.7	1.4	QPSK	1/5	H	15.17	34.77
836.5	1.4	QPSK	1/5	H	13.83	34.77
848.3	1.4	QPSK	1/5	H	13.77	34.77
824.7	1.4	16-QAM	1/5	V	15.32	34.77
836.5	1.4	16-QAM	1/5	V	15.35	34.77
848.3	1.4	16-QAM	1/5	V	15.33	34.77
824.7	1.4	16-QAM	1/5	H	12.87	34.77
836.5	1.4	16-QAM	1/5	H	13.28	34.77
848.3	1.4	16-QAM	1/5	H	14.28	34.77
825.5	3	QPSK	1/14	V	16.3	34.77
836.5	3	QPSK	1/0	V	15.3	34.77
847.5	3	QPSK	1/14	V	16.31	34.77
825.5	3	QPSK	1/14	H	15.08	34.77
836.5	3	QPSK	1/0	H	13.33	34.77
847.5	3	QPSK	1/14	H	13.98	34.77
825.5	3	16-QAM	1/14	V	15.38	34.77
836.5	3	16-QAM	1/0	V	14.27	34.77
847.5	3	16-QAM	1/14	V	15.39	34.77
825.5	3	16-QAM	1/14	H	13.32	34.77
836.5	3	16-QAM	1/0	H	12.42	34.77
847.5	3	16-QAM	1/14	H	12.98	34.77
826.5	5	QPSK	1/24	V	16.36	34.77
836.5	5	QPSK	1/24	V	16.39	34.77
846.5	5	QPSK	1/24	V	16.37	34.77
826.5	5	QPSK	1/24	H	14.98	34.77
836.5	5	QPSK	1/24	H	14.92	34.77
846.5	5	QPSK	1/24	H	14.59	34.77

826.5	5	16-QAM	1/24	V	15.43	34.77
836.5	5	16-QAM	1/24	V	15.46	34.77
846.5	5	16-QAM	1/24	V	15.44	34.77
826.5	5	16-QAM	1/24	H	13.63	34.77
836.5	5	16-QAM	1/24	H	14.29	34.77
846.5	5	16-QAM	1/24	H	13.62	34.77
829	10	QPSK	1/49	V	16.33	34.77
836.5	10	QPSK	1/49	V	16.36	34.77
844	10	QPSK	1/49	V	16.34	34.77
829	10	QPSK	1/49	H	14.95	34.77
836.5	10	QPSK	1/49	H	14.27	34.77
844	10	QPSK	1/49	H	14.4	34.77
829	10	16-QAM	1/49	V	15.4	34.77
836.5	10	16-QAM	1/49	V	15.43	34.77
844	10	16-QAM	1/49	V	15.41	34.77
829	10	16-QAM	1/49	H	14.14	34.77
836.5	10	16-QAM	1/49	H	13.7	34.77
844	10	16-QAM	1/49	H	13.34	34.77

### ERP for LTE Band VII (Part 27)

Frequency (MHz)	Channel Bandwidth (MHz)	Mod.	RB Size/Offset	Antenna Polarization (H/V)	Absolute Level (dBm)	Limit (dBm)
2502.5	5	QPSK	1/0	V	21.11	30
2535	5	QPSK	1/0	V	21.15	30
2567.5	5	QPSK	1/24	V	21.09	30
2502.5	5	QPSK	1/0	H	19.66	30
2535	5	QPSK	1/0	H	20.07	30
2567.5	5	QPSK	1/24	H	18.75	30
2502.5	5	16-QAM	1/0	V	20.45	30
2535	5	16-QAM	1/0	V	20.49	30
2567.5	5	16-QAM	1/24	V	20.43	30
2502.5	5	16-QAM	1/0	H	17.99	30
2535	5	16-QAM	1/0	H	18.39	30
2567.5	5	16-QAM	1/24	H	18.75	30
2505	10	QPSK	1/0	V	21.15	30
2535	10	QPSK	1/49	V	20.99	30
2565	10	QPSK	1/0	V	21.13	30
2505	10	QPSK	1/0	H	19.85	30
2535	10	QPSK	1/49	H	19.05	30
2565	10	QPSK	1/0	H	18.74	30
2505	10	16-QAM	1/0	V	20.49	30
2535	10	16-QAM	1/49	V	20.48	30
2565	10	16-QAM	1/0	V	20.47	30
2505	10	16-QAM	1/0	H	18.19	30
2535	10	16-QAM	1/49	H	19.43	30
2565	10	16-QAM	1/0	H	19.03	30
2507.5	15	QPSK	1/0	V	21.21	30
2535	15	QPSK	1/74	V	21.05	30
2562.5	15	QPSK	1/0	V	21.19	30
2507.5	15	QPSK	1/0	H	19.76	30
2535	15	QPSK	1/74	H	19.73	30
2562.5	15	QPSK	1/0	H	18.97	30

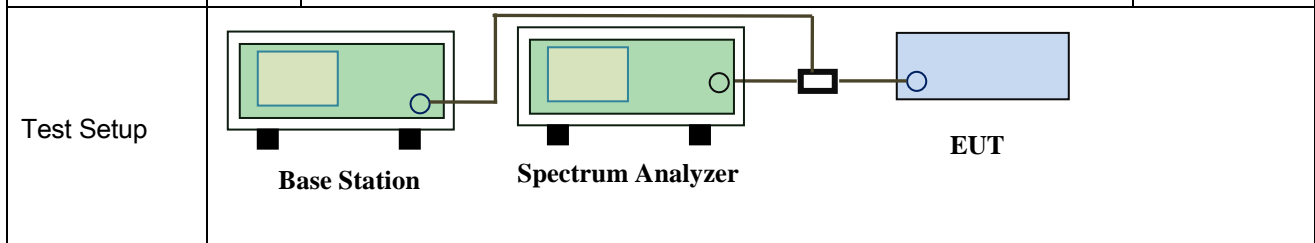
2507.5	15	16-QAM	1/0	V	20.55	30
2535	15	16-QAM	1/74	V	20.54	30
2562.5	15	16-QAM	1/0	V	20.53	30
2507.5	15	16-QAM	1/0	H	19.28	30
2535	15	16-QAM	1/74	H	19.54	30
2562.5	15	16-QAM	1/0	H	18.12	30
2510	20	QPSK	1/99	V	21.04	30
2535	20	QPSK	1/99	V	21.08	30
2560	20	QPSK	1/0	V	21.22	30
2510	20	QPSK	1/99	H	19.88	30
2535	20	QPSK	1/99	H	19.17	30
2560	20	QPSK	1/0	H	19.54	30
2510	20	16-QAM	1/99	V	20.53	30
2535	20	16-QAM	1/99	V	20.57	30
2560	20	16-QAM	1/0	V	20.56	30
2510	20	16-QAM	1/99	H	18.59	30
2535	20	16-QAM	1/99	H	19.2	30
2560	20	16-QAM	1/0	H	18.59	30

### 6.3 Peak-Average Ratio

Temperature	24°C
Relative Humidity	57%
Atmospheric Pressure	1023mbar
Test date :	June 27, 2018
Tested By :	Aarron Liang

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 Procedure	<p><b>According with KDB 971168 v02r02</b></p> <p><b>5.7.2 Alternate procedure for PAPR</b></p> <p><b>5.1.2 Peak power measurements with a peak power meter</b></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><b>5.2.3 Average power measurement with average power meter</b></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</p>
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	<p>cycle <math>\geq</math> 98%) and at all times the EUT is transmitting at its maximum output 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 <math>&lt;</math> 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 <math>\pm</math> 2 percent) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to <math>10\log(1/\text{duty cycle})</math></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	25.78	22.63	3.15
			16QAM	25.35	21.52	3.83
3	1880	RB 1/0	QPSK	25.46	22.62	2.84
			16QAM	25.26	21.41	3.85
5	1880	RB 1/0	QPSK	25.38	22.74	2.64
			16QAM	25.46	21.63	3.83
10	1880	RB 1/0	QPSK	25.86	22.62	3.24
			16QAM	24.97	22.16	2.81
15	1880	RB 1/0	QPSK	25.68	22.75	2.93
			16QAM	25.27	21.59	3.68
20	1880	RB 1/0	QPSK	25.28	22.81	2.47
			16QAM	25.75	21.73	4.02

### 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	25.35	22.91	2.44
			16QAM	25.26	21.94	3.32
3	1732.5	RB 1/0	QPSK	25.4	23.23	2.17
			16QAM	25.15	22.04	3.11
5	1732.5	RB 1/0	QPSK	25.28	23.3	1.98
			16QAM	25.64	22.35	3.29
10	1732.5	RB 1/0	QPSK	25.38	22.56	2.82
			16QAM	25.84	21.56	4.28
15	1732.5	RB 1/0	QPSK	25.66	22.81	2.85
			16QAM	25.35	21.73	3.62
20	1732.5	RB 1/0	QPSK	25.75	23.29	2.46
			16QAM	25.49	22.25	3.24



### LTE Band V (part 27)

BW(MHz)	Frequency (MHz)	Mode	Modulation	Conducted Power (dBm)		Peak-Average Ratio (PAR)
				Peak	Average	
1.4	836.5	RB 1/0	QPSK	25.55	22.6	2.95
			16QAM	25.74	21.55	4.19
3	836.5	RB 1/0	QPSK	24.64	22.63	2.01
			16QAM	24.62	21.61	3.01
5	836.5	RB 1/0	QPSK	25.03	22.73	2.3
			16QAM	24.83	22.06	2.77
10	836.5	RB 1/0	QPSK	25.08	22.91	2.17
			16QAM	24.92	22.09	2.83

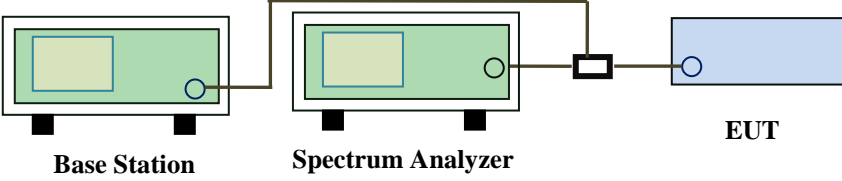
### LTE Band VII (part 27)

BW(MHz)	Frequency (MHz)	Mode	Modulation	Conducted Power (dBm)		Peak-Average Ratio (PAR)
				Peak	Average	
5	2535	RB 1/0	QPSK	25.55	22.6	2.95
			16QAM	25.74	21.55	4.19
10	2535	RB 1/0	QPSK	24.64	22.63	2.01
			16QAM	24.62	21.61	3.01
15	2535	RB 1/0	QPSK	25.03	22.73	2.30
			16QAM	24.83	22.06	2.77
20	2535	RB 1/0	QPSK	25.08	22.91	2.17
			16QAM	24.92	22.09	2.83

## 6.4 Occupied Bandwidth

Temperature	24°C
Relative Humidity	57%
Atmospheric Pressure	1023mbar
Test date :	June 27&28, 2018
Tested By :	Aarron Liang

### 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"> <li>- The EUT was connected to Spectrum Analyzer and Base Station via power divider.</li> <li>- The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.</li> </ul>		
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	1851	16QAM	1.1070	1.325
			QPSK	1.1061	1.319
1.4	18900	1880	16QAM	1.1048	1.324
			QPSK	1.1031	1.319
1.4	19193	1909	16QAM	1.1066	1.307
			QPSK	1.1086	1.304
3	18615	1852	16QAM	2.7373	3.014
			QPSK	2.5473	5.215
3	18900	1880	16QAM	2.7403	3.014
			QPSK	2.7374	3.006
3	19185	1909	16QAM	2.7423	3.028
			QPSK	2.7385	3.030
5	18625	1853	16QAM	4.5444	5.207
			QPSK	4.5483	5.183
5	18900	1880	16QAM	4.5242	5.218
			QPSK	4.5246	5.223
5	19175	1908	16QAM	4.5244	5.142
			QPSK	4.5230	5.213
10	18650	1855	16QAM	9.0526	10.27
			QPSK	9.0768	10.36
10	18900	1880	16QAM	9.1134	10.40
			QPSK	9.1198	10.36
10	19150	1905	16QAM	9.1149	10.06
			QPSK	9.1263	10.17
15	18675	1858	16QAM	13.496	15.08
			QPSK	13.492	15.07
15	18900	1880	16QAM	13.515	15.15
			QPSK	13.520	15.23
15	19125	1903	16QAM	13.520	15.15
			QPSK	13.546	15.26

20	18700	1860	16QAM	17.968	19.48
			QPSK	17.958	19.53
20	18900	1880	16QAM	17.918	19.54
			QPSK	17.911	19.55
20	19100	1900	16QAM	17.960	19.72
			QPSK	17.949	19.81

### LTE Band IV (Part 27)

BW(MHz)	Channel	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1.4	19957	1711	16QAM	1.1188	1.646
			QPSK	1.1084	1.348
1.4	20175	1733	16QAM	1.1028	1.319
			QPSK	1.0996	1.299
1.4	20393	1754	16QAM	1.1062	1.301
			QPSK	1.1059	1.302
3	19965	1712	16QAM	2.7489	3.019
			QPSK	2.7501	3.028
3	20175	1733	16QAM	2.7439	3.004
			QPSK	2.7416	3.018
3	20385	1754	16QAM	2.7317	3.027
			QPSK	2.7329	3.030
5	19975	1713	16QAM	4.5451	5.223
			QPSK	4.5439	5.243
5	20175	1733	16QAM	4.5356	5.105
			QPSK	4.5327	5.182
5	20375	1753	16QAM	4.5251	5.139
			QPSK	4.5265	5.177
10	20000	1715	16QAM	9.1098	10.31
			QPSK	9.1212	10.50
10	20175	1733	16QAM	9.0787	10.34
			QPSK	9.0893	10.34
10	20350	1750	16QAM	9.0803	12.29
			QPSK	9.1032	12.28
15	20025	1718	16QAM	13.525	15.13
			QPSK	13.528	15.09
15	20175	1733	16QAM	13.483	14.96
			QPSK	13.500	15.12
15	20325	1748	16QAM	13.547	15.04
			QPSK	13.530	14.84

20	20050	1720	16QAM	17.949	19.67
			QPSK	17.963	19.72
20	20175	1733	16QAM	17.898	19.45
			QPSK	17.905	19.54
20	20300	1745	16QAM	17.980	19.39
			QPSK	17.969	19.45

### LTE Band V (Part 22H)

BW(MHz)	Channel	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1.4	20407	824.7	16QAM	1.1045	1.305
			QPSK	1.1091	1.313
1.4	20525	836.5	16QAM	1.1067	1.318
			QPSK	1.1099	1.423
1.4	20643	848.3	16QAM	1.1013	1.291
			QPSK	1.1012	1.303
3	20415	825.5	16QAM	2.7542	3.009
			QPSK	2.7520	3.010
3	20525	836.5	16QAM	2.7380	3.024
			QPSK	2.7451	3.026
3	20635	847.5	16QAM	2.7269	3.015
			QPSK	2.7285	3.017
5	20425	826.5	16QAM	4.5397	5.164
			QPSK	4.5405	5.179
5	20525	836.5	16QAM	4.5247	4.995
			QPSK	4.5277	5.069
5	20625	846.5	16QAM	4.5330	5.150
			QPSK	4.5292	5.181
10	20450	829	16QAM	9.0883	10.29
			QPSK	9.1058	10.31
10	20525	836.5	16QAM	9.1020	10.17
			QPSK	9.1179	10.21
10	20800	844	16QAM	9.1058	10.38
			QPSK	9.1196	10.45

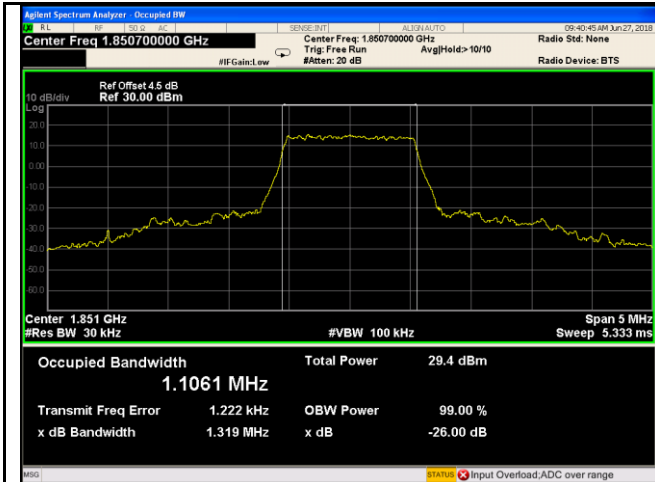
**LTE Band VII (Part 27) result**

BW(MHz)	Channel	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
5	20775	2503	16QAM	4.5357	5.298
			QPSK	4.5448	5.293
5	21100	2535	16QAM	4.5184	5.121
			QPSK	4.5222	5.150
5	21425	2568	16QAM	4.5196	5.183
			QPSK	4.5306	5.116
10	20800	2505	16QAM	9.0630	10.25
			QPSK	9.0599	10.47
10	21100	2535	16QAM	9.0816	10.28
			QPSK	9.1021	10.34
10	21400	2565	16QAM	9.0952	10.30
			QPSK	9.1135	10.49
15	20825	2508	16QAM	13.483	14.86
			QPSK	13.476	15.13
15	21100	2535	16QAM	13.493	15.01
			QPSK	13.508	15.09
15	21400	2563	16QAM	13.556	15.14
			QPSK	13.551	15.15
20	20850	2510	16QAM	17.899	19.37
			QPSK	17.907	19.48
20	21100	2535	16QAM	17.946	19.82
			QPSK	17.971	19.74
20	21350	2560	16QAM	17.960	19.45
			QPSK	17.966	19.60

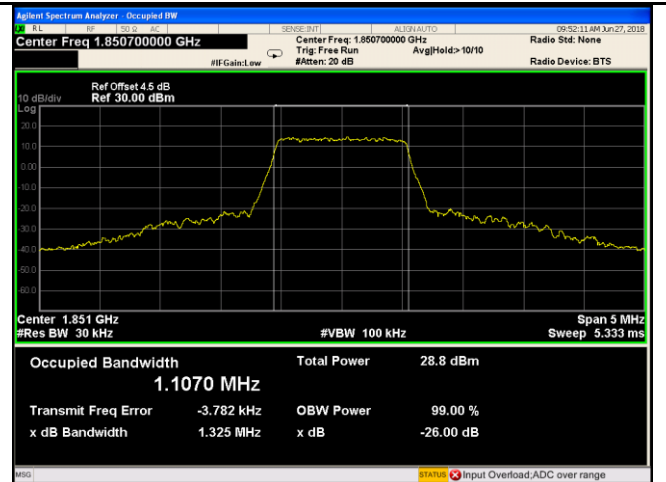


## Test Plots

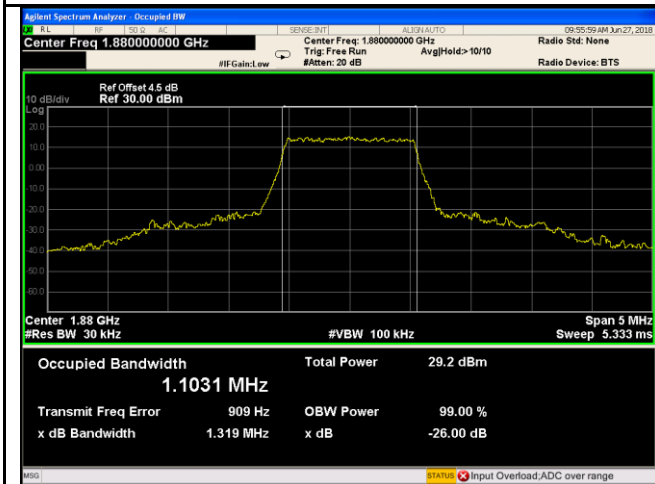
### LTE Band II (Part 24E)



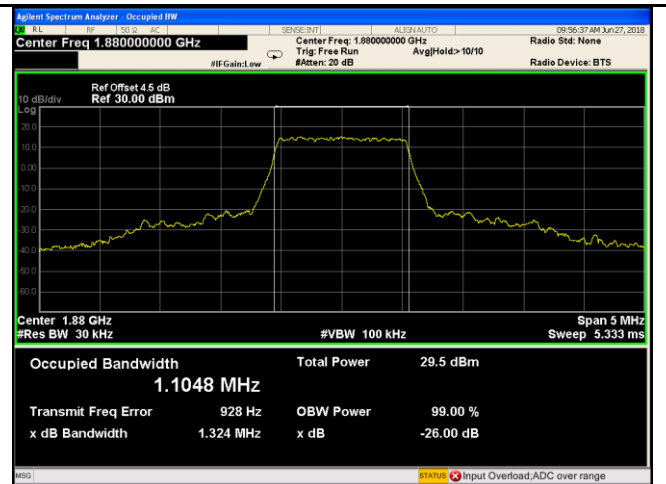
LTE Band II - Low CH QPSK-1.4



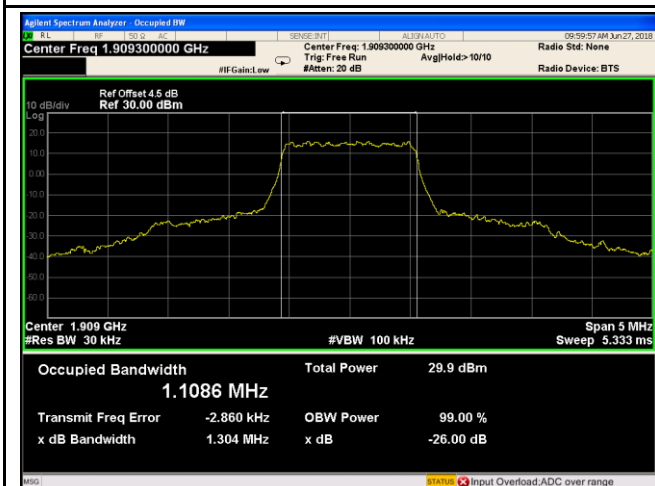
LTE Band II - Low CH 16QAM-1.4



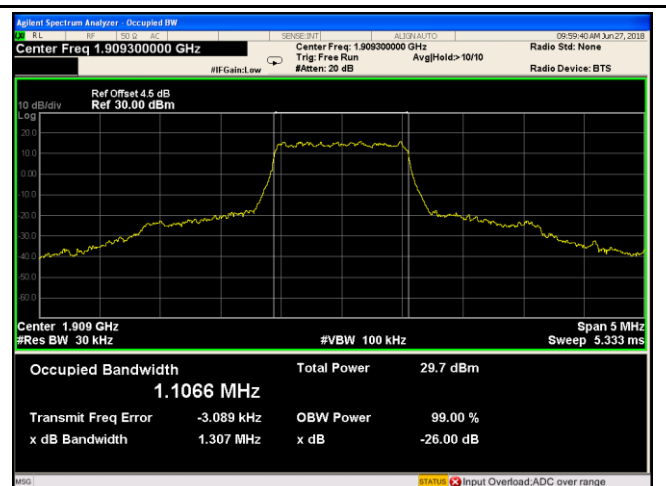
LTE Band II - Middle CH QPSK-1.4



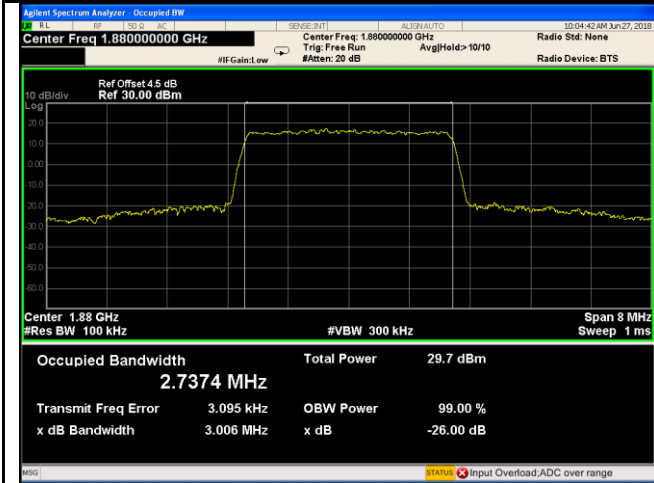
LTE Band II - Middle CH 16QAM-1.4



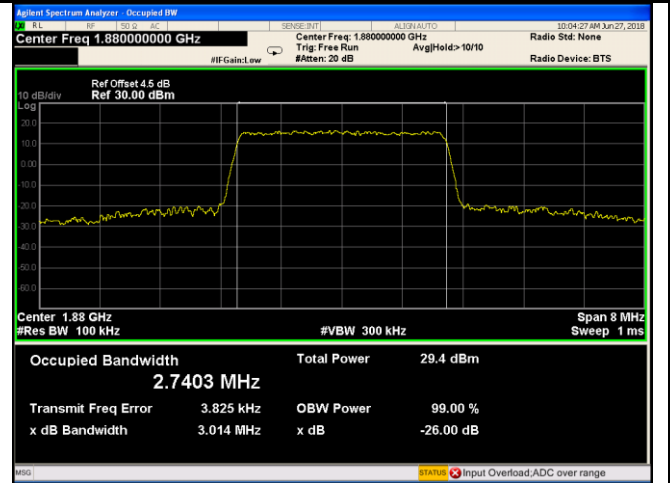
LTE Band II - High CH QPSK-1.4



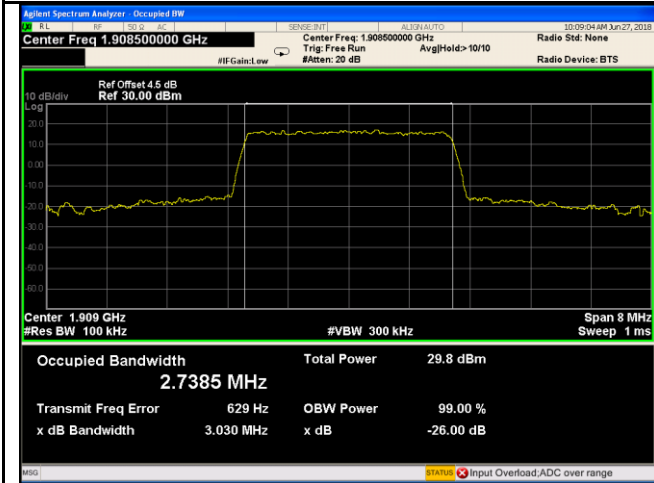
LTE Band II - High CH 16QAM-1.4



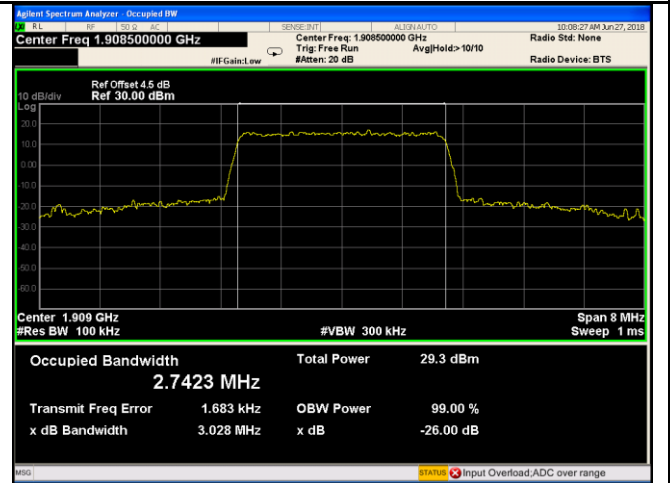
LTE Band II - Low CH QPSK-3



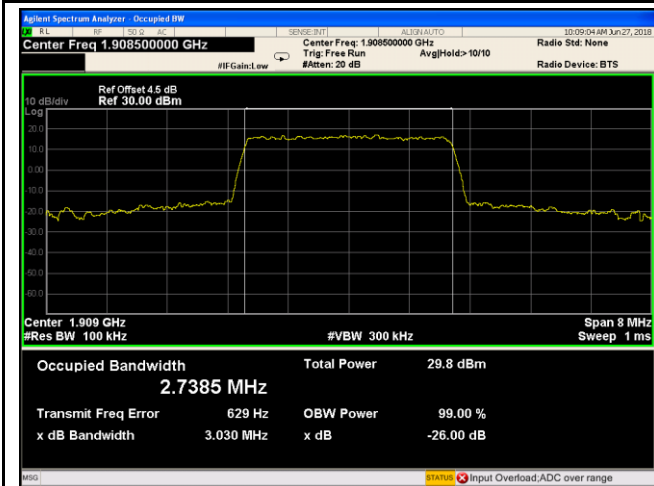
LTE Band II - Low CH 16QAM-3



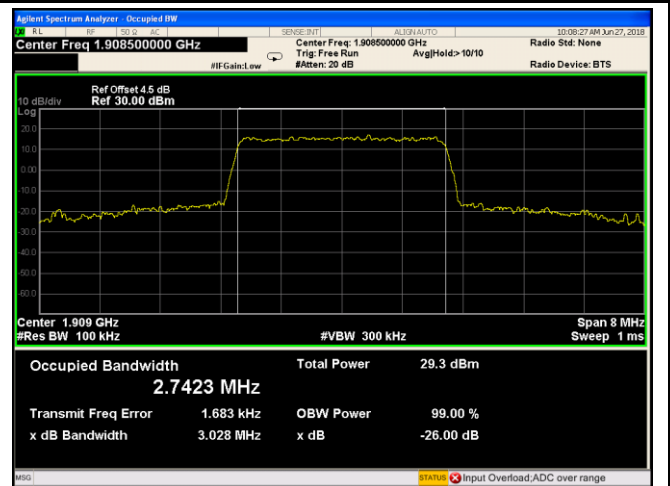
LTE Band II - Middle CH QPSK-3



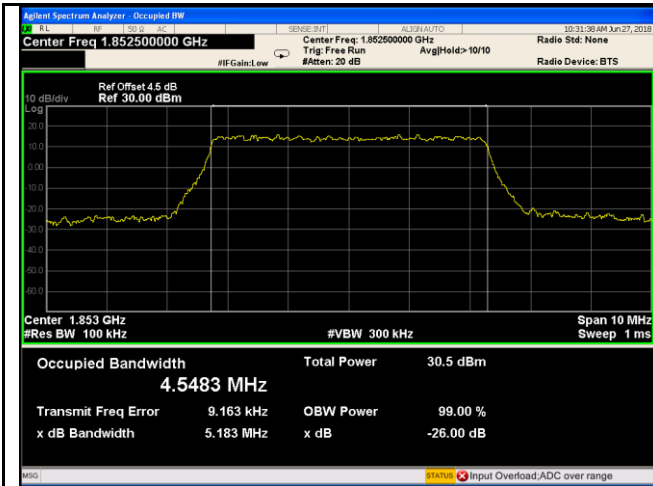
LTE Band II - Middle CH 16QAM-3



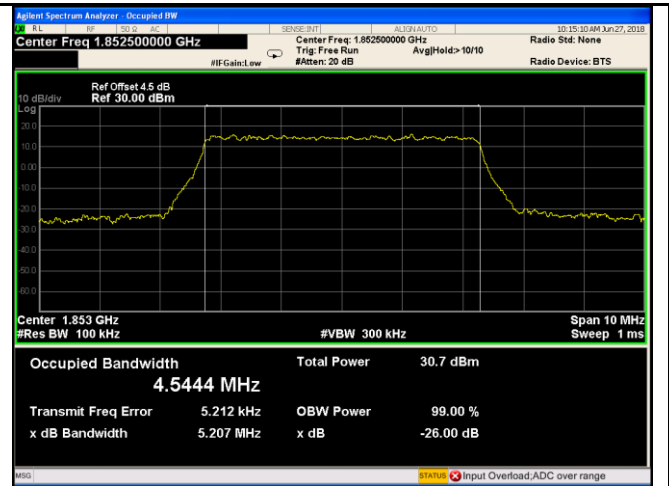
LTE Band II - High CH QPSK-3



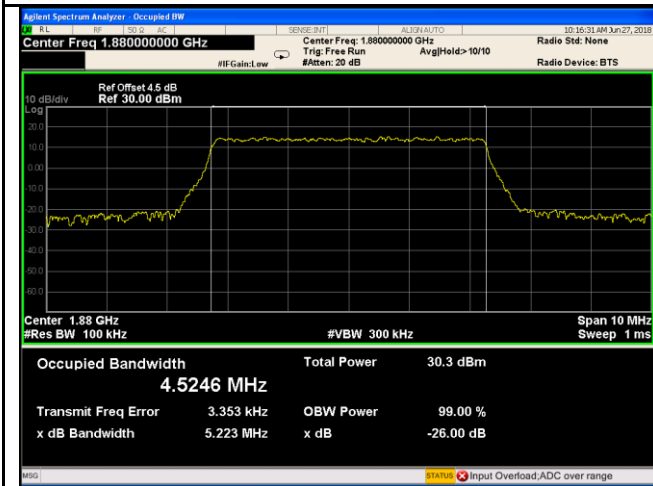
LTE Band II - High CH 16QAM-3



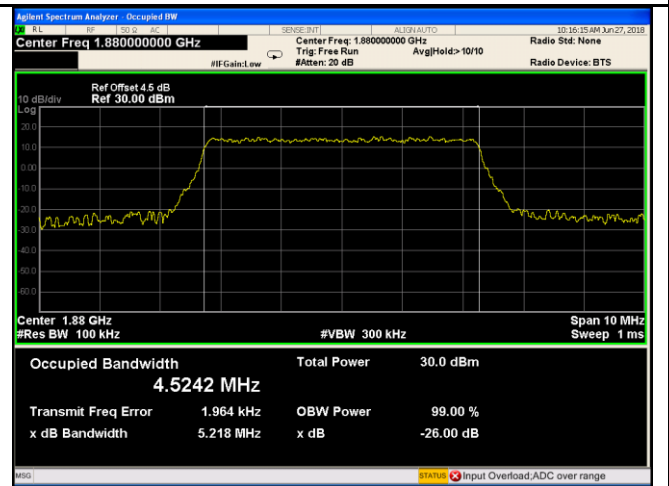
LTE Band II - Low CH QPSK-5



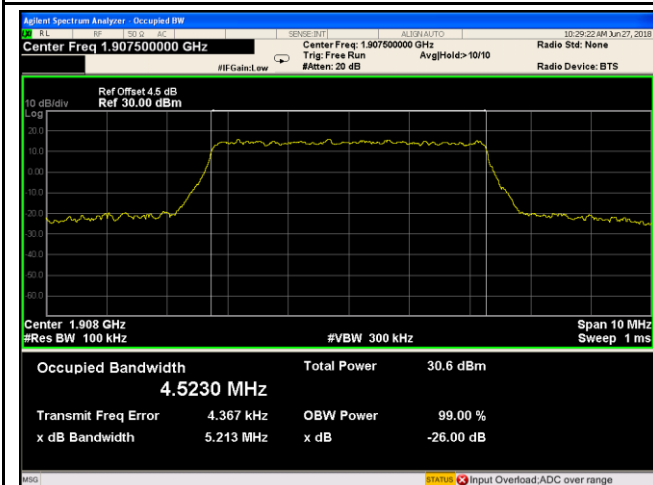
LTE Band II - Low CH 16QAM-5



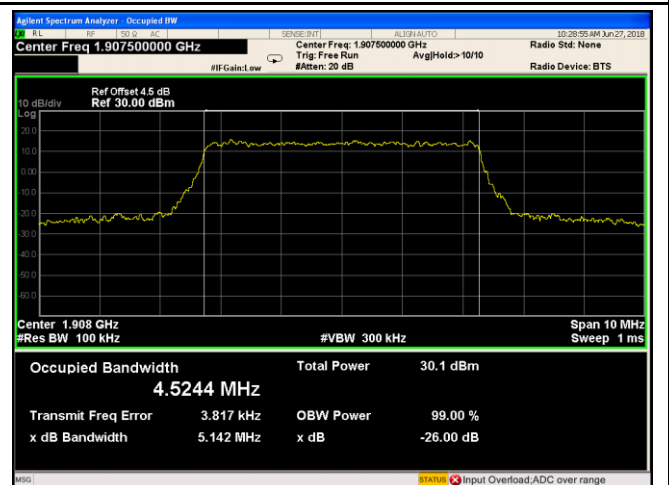
LTE Band II - Middle CH QPSK-5



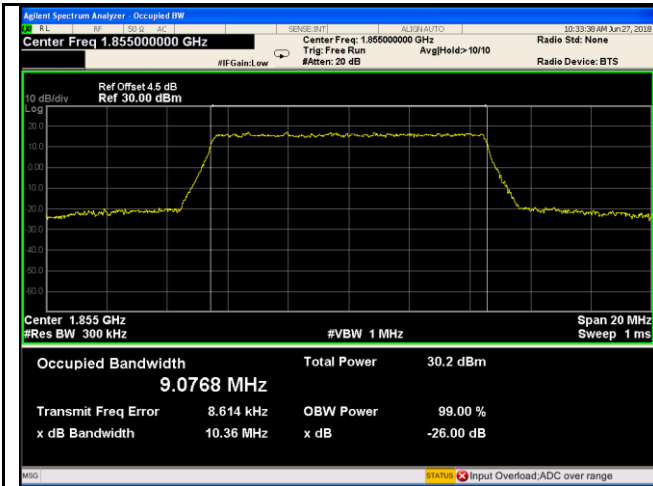
LTE Band II - Middle CH 16QAM-5



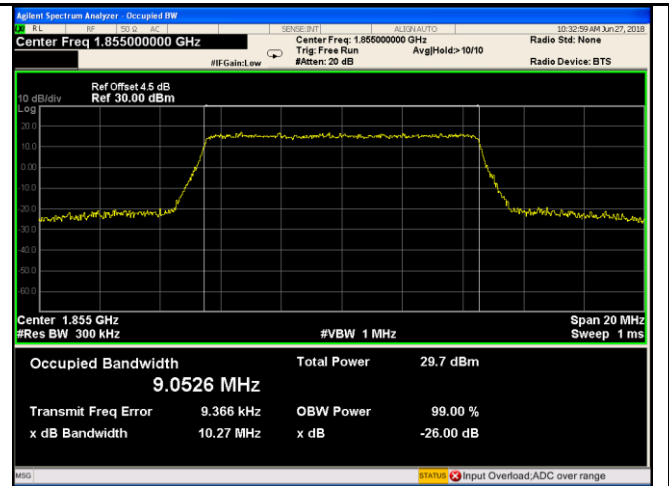
LTE Band II - High CH QPSK-5



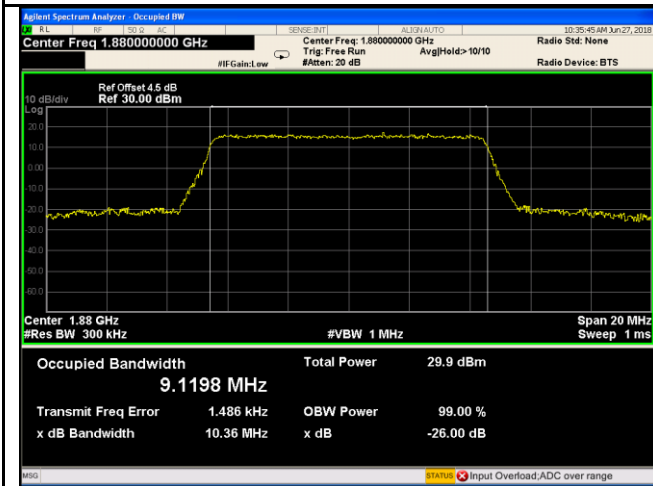
LTE Band II - High CH 16QAM-5



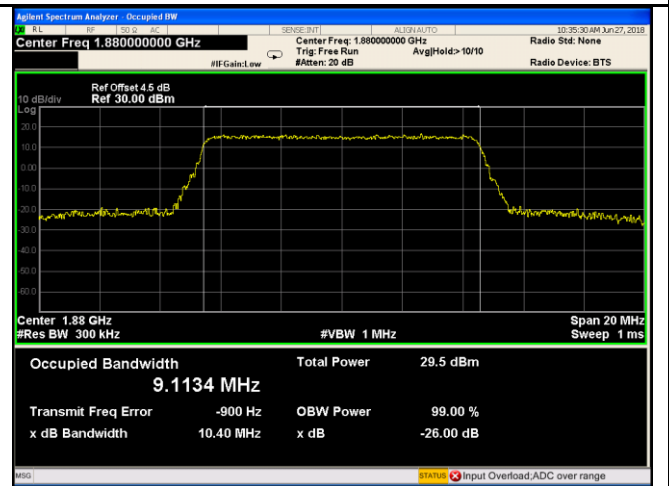
LTE Band II - Low CH QPSK-10



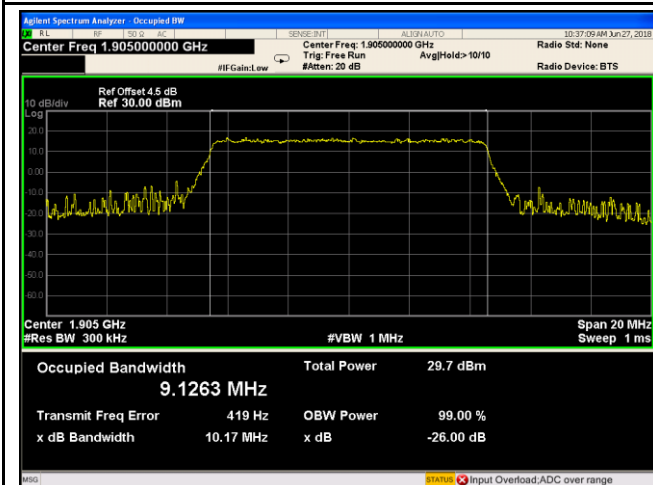
LTE Band II - Low CH 16QAM-10



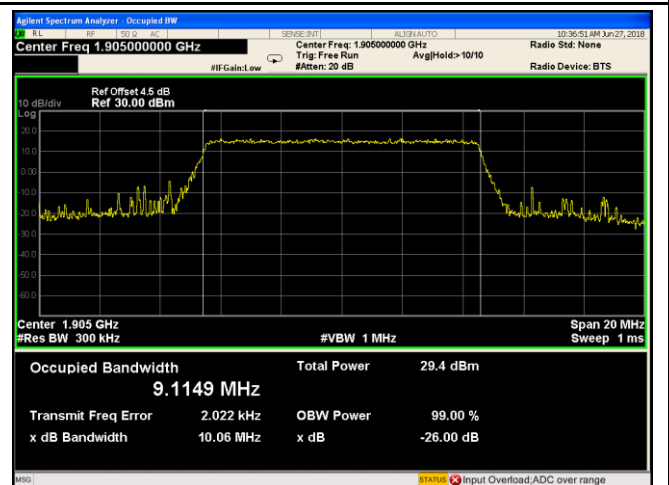
LTE Band II - Middle CH QPSK-10



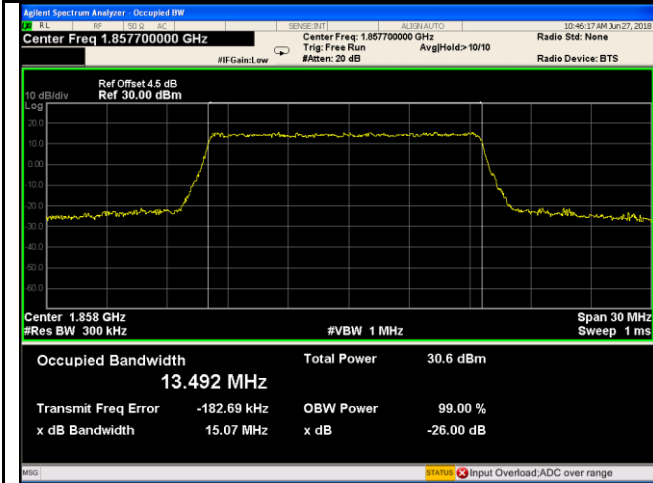
LTE Band II - Middle CH 16QAM-10



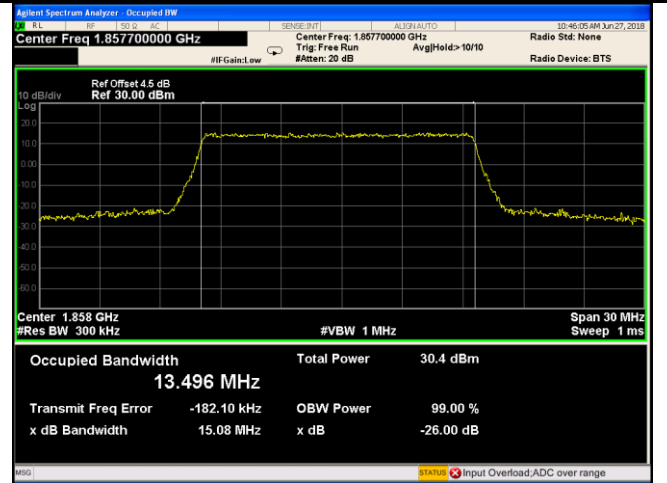
LTE Band II - High CH QPSK-10



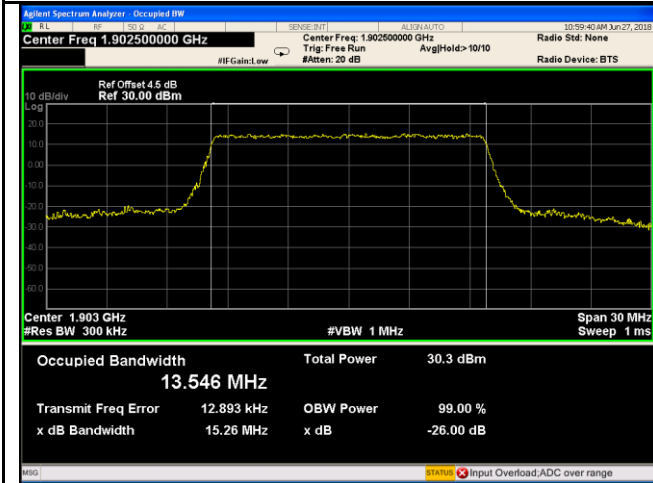
LTE Band II - High CH 16QAM-10



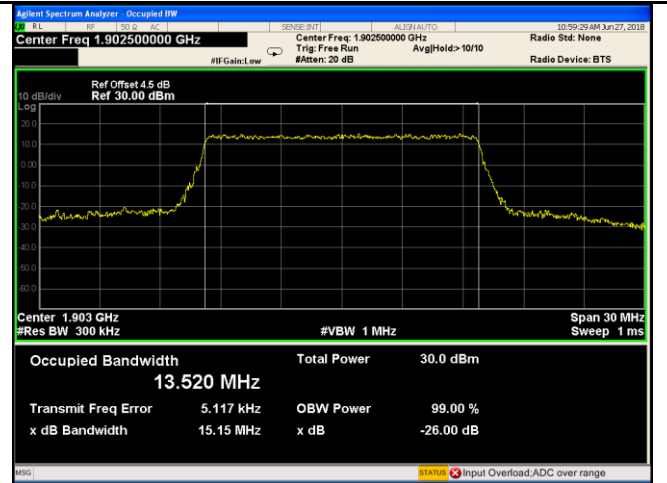
LTE Band II - Low CH QPSK-15



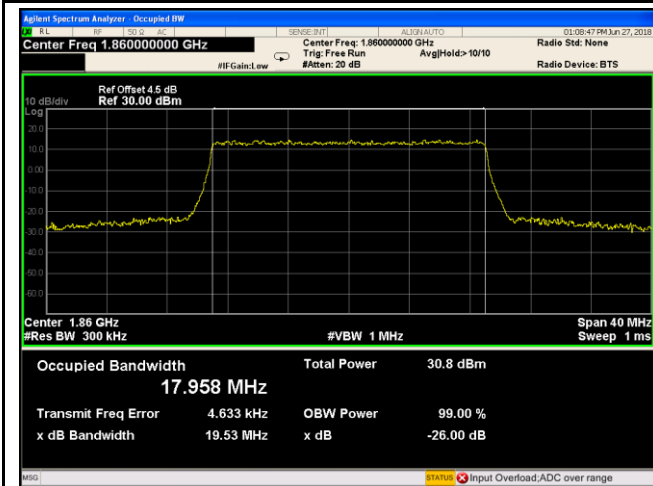
LTE Band II - Low CH 16QAM-15



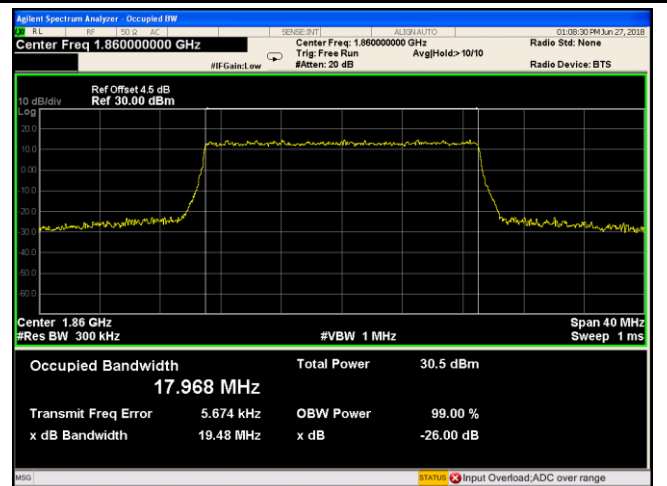
LTE Band II - Middle CH QPSK-15



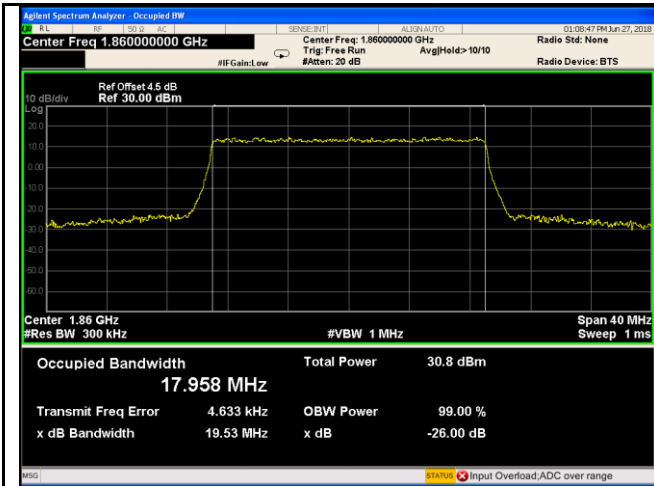
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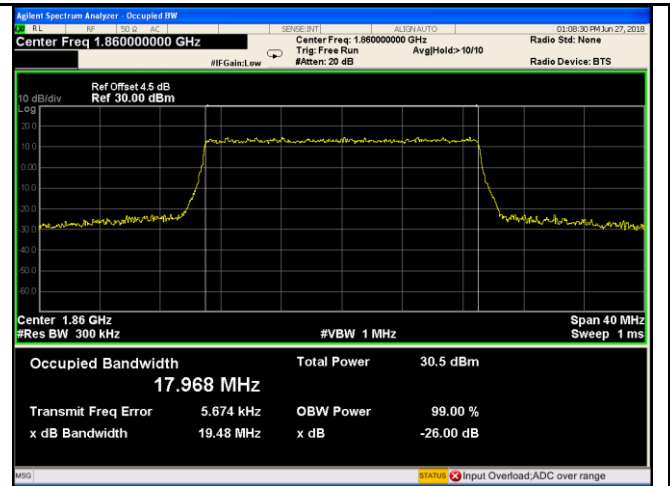
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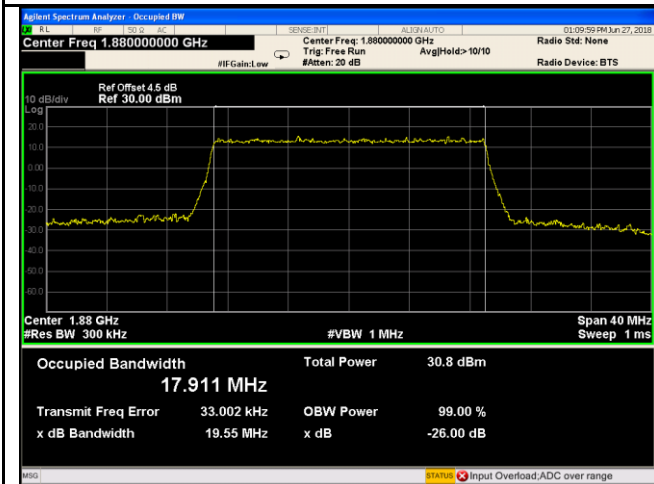
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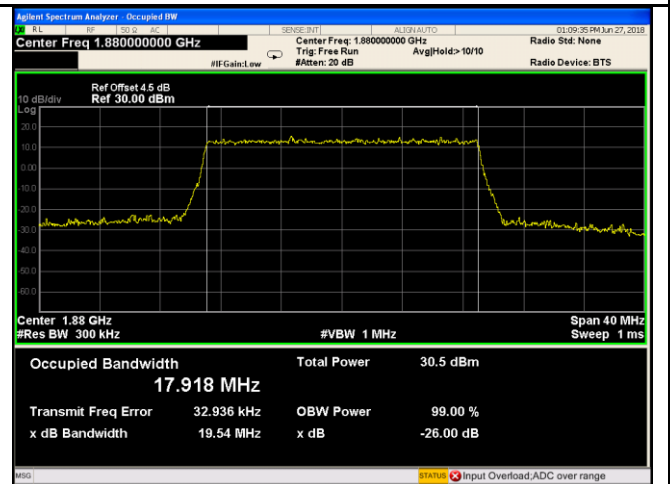
LTE Band II - Low CH QPSK-20



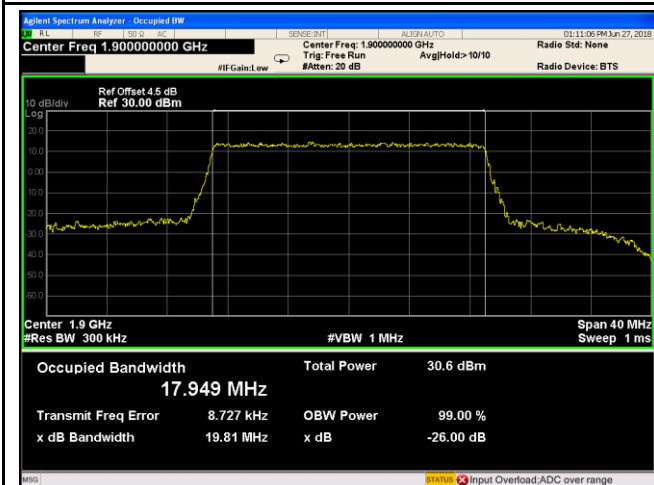
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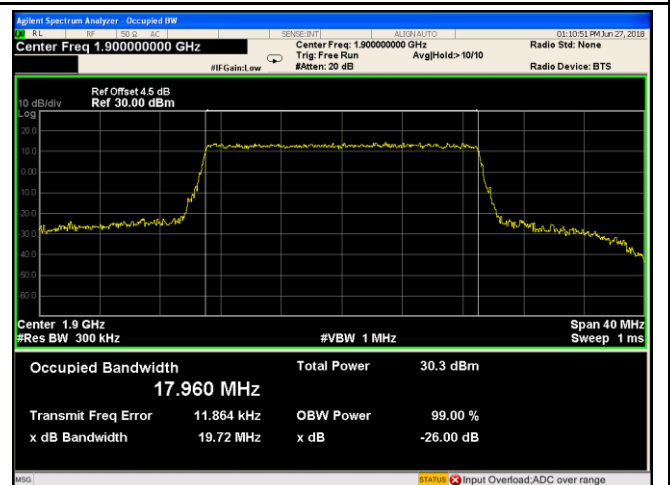
LTE Band II - Middle CH QPSK-20



LTE Band II - Middle CH 16QAM-20

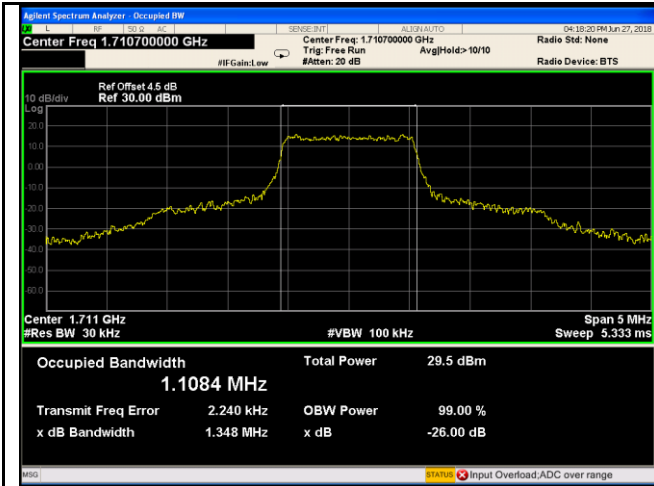


LTE Band II - High CH QPSK-20

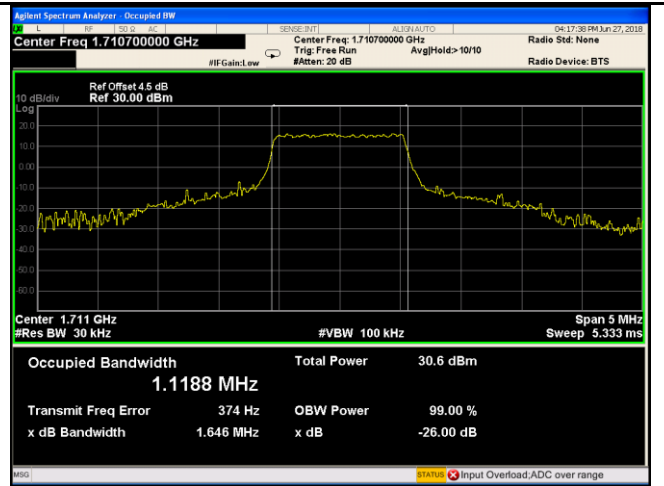


LTE Band II - High CH 16QAM-20

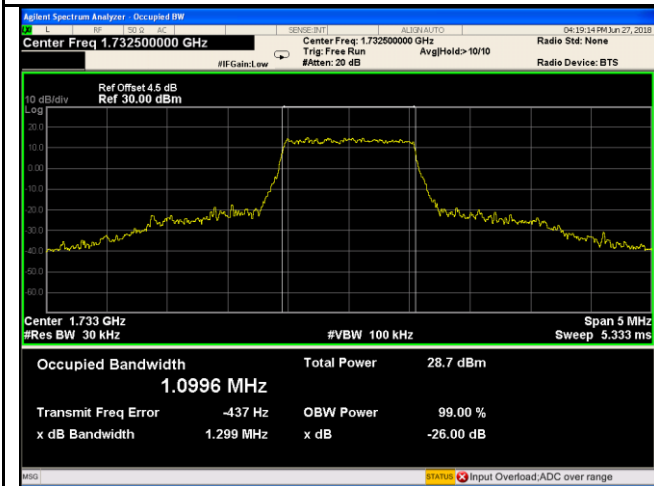
### LTE Band IV (Part 27)



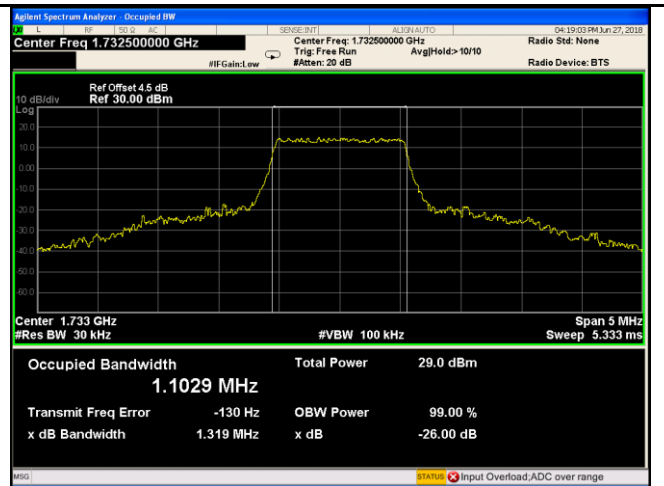
LTE Band IV - Low CH QPSK-1.4



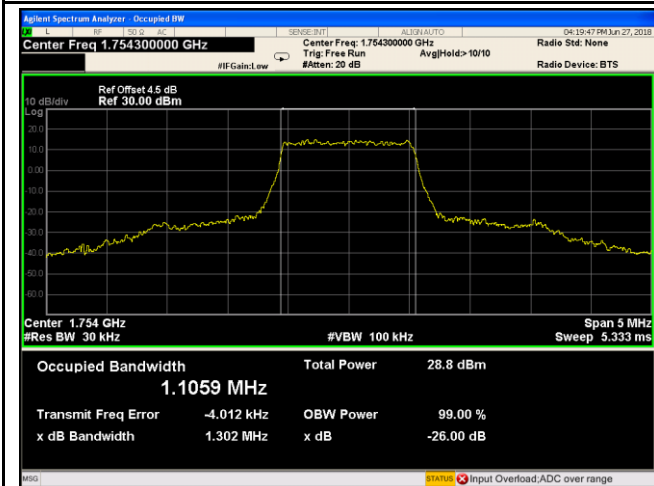
LTE Band IV - Low CH 16QAM-1.4



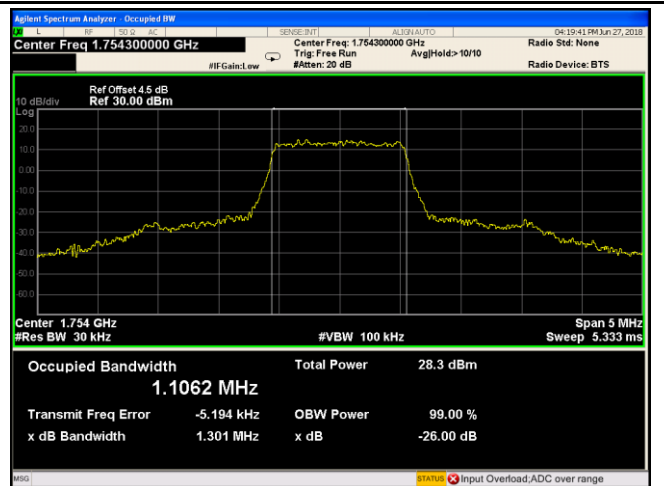
LTE Band IV - Middle CH QPSK-1.4



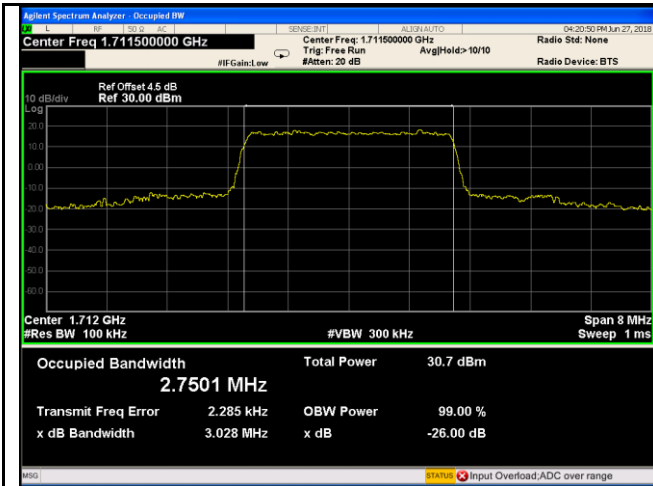
LTE Band IV - Middle CH 16QAM-1.4



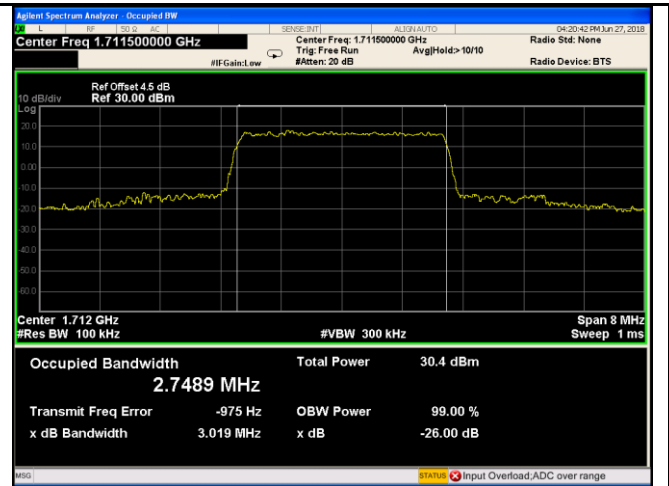
LTE Band IV - High CH QPSK-1.4



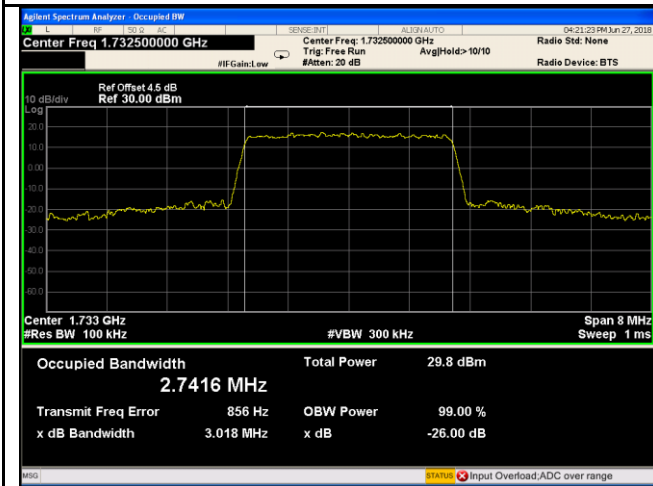
LTE Band IV - High CH 16QAM-1.4



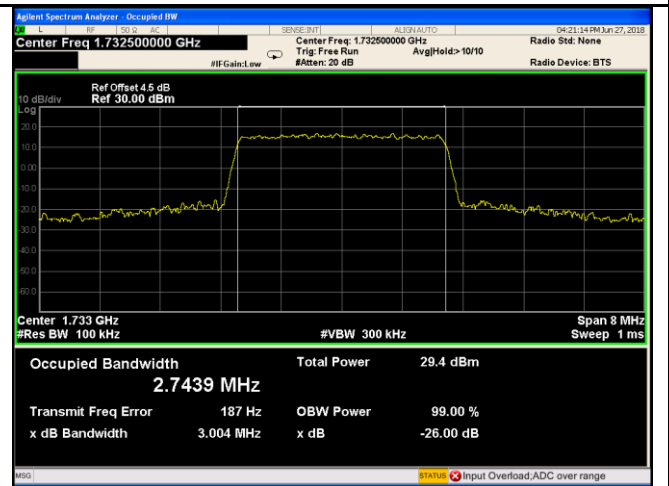
LTE Band IV - Low CH QPSK-3



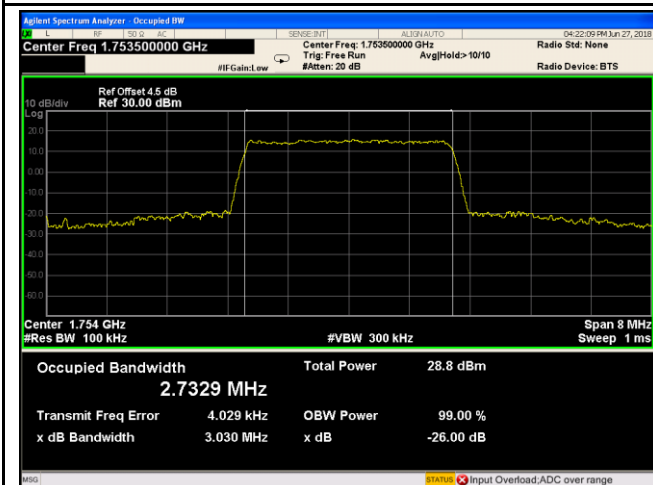
LTE Band IV - Low CH 16QAM-3



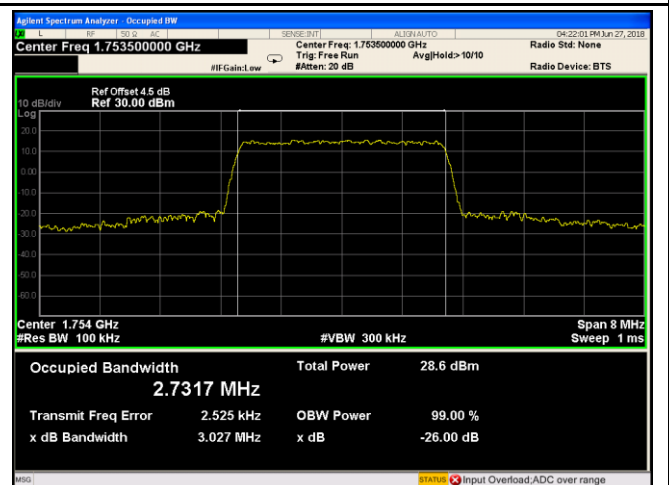
LTE Band IV - Middle CH QPSK-3



LTE Band IV - Middle CH 16QAM-3

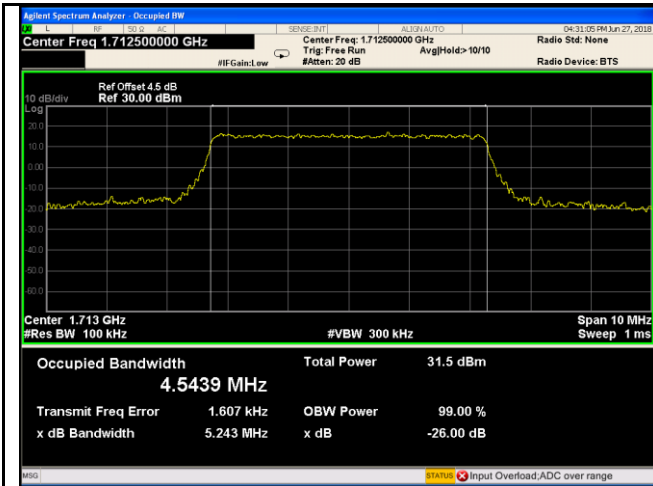


LTE Band IV - High CH QPSK-3

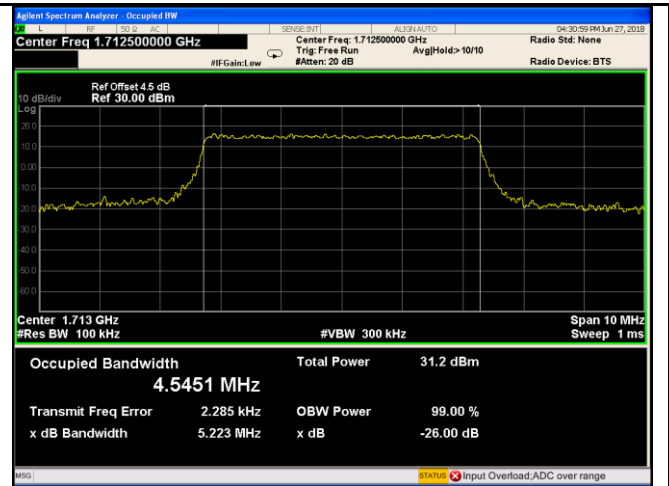


LTE Band IV - High CH 16QAM-3

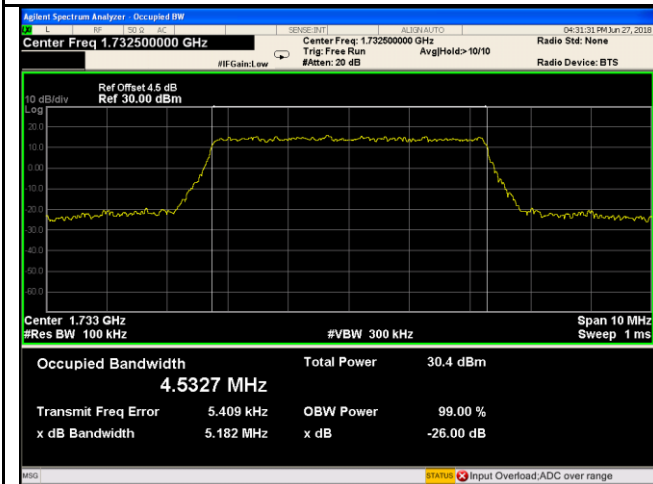




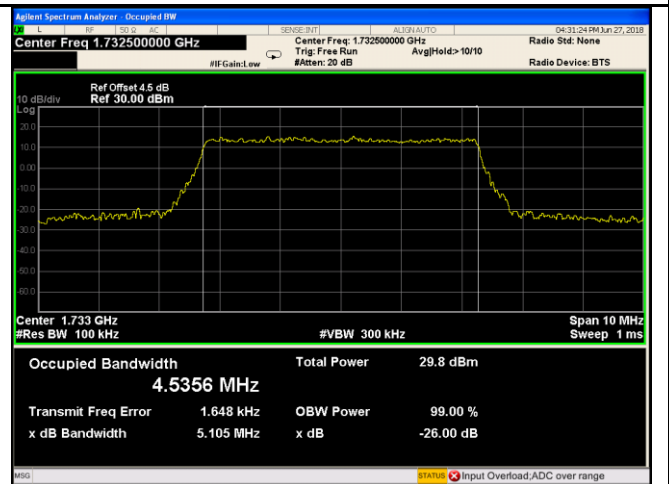
LTE Band IV - Low CH QPSK-5



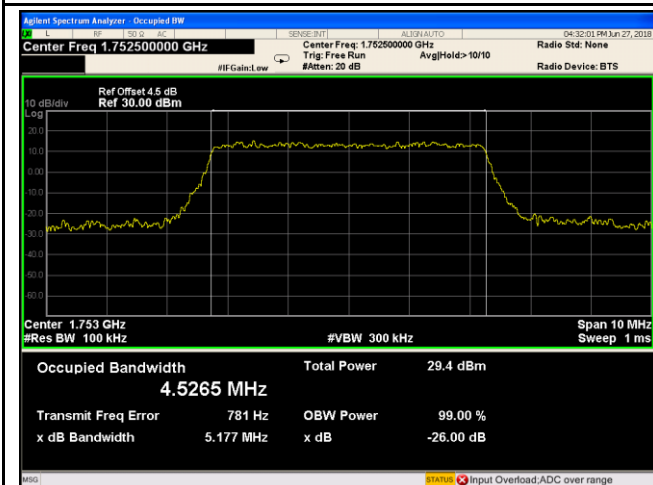
LTE Band IV - Low CH 16QAM-5



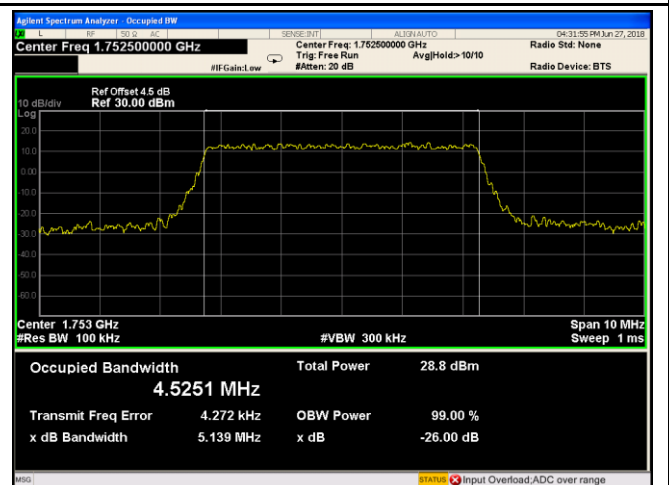
LTE Band IV - Middle CH QPSK-5



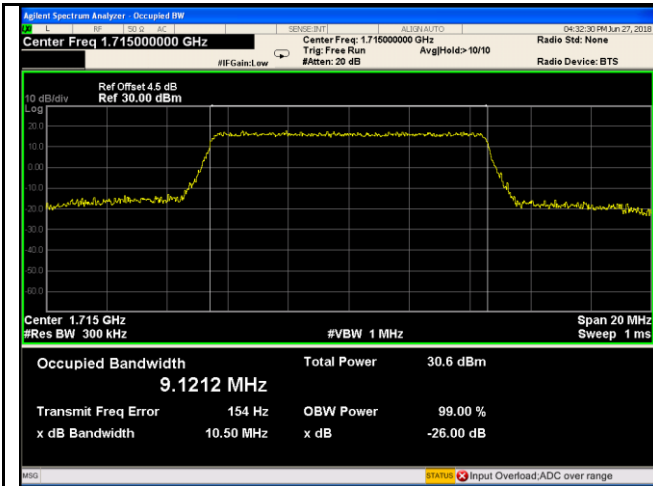
LTE Band IV - Middle CH 16QAM-5



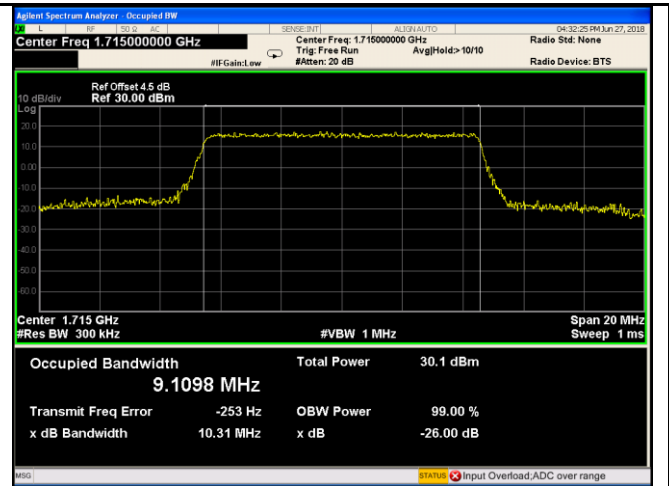
LTE Band IV - High CH QPSK-5



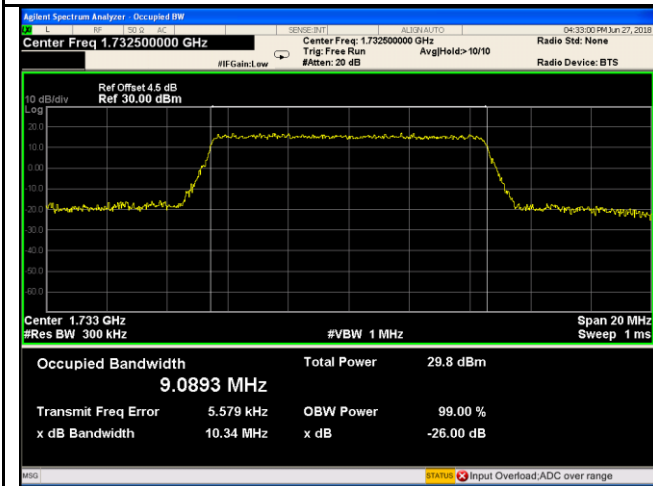
LTE Band IV - High CH 16QAM-5



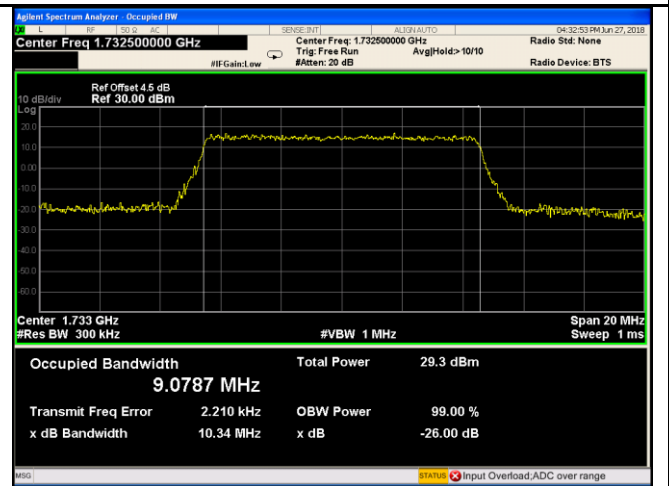
LTE Band IV - Low CH QPSK-10



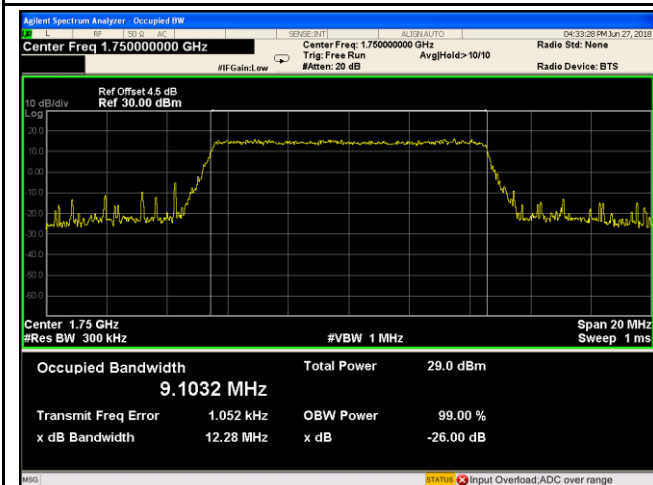
LTE Band IV - Low CH 16QAM-10



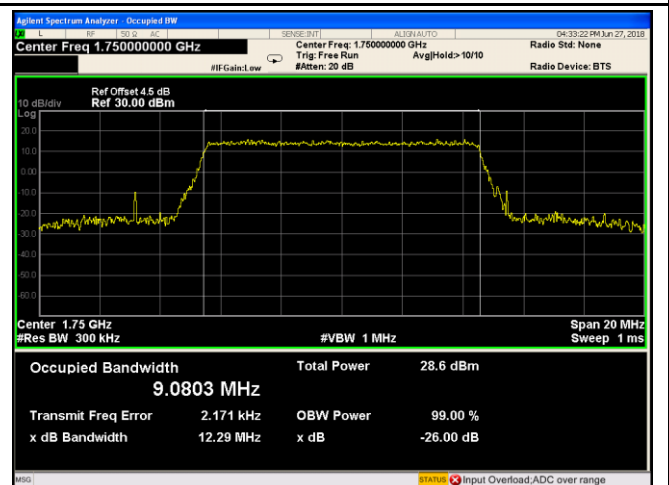
LTE Band IV - Middle CH QPSK-10



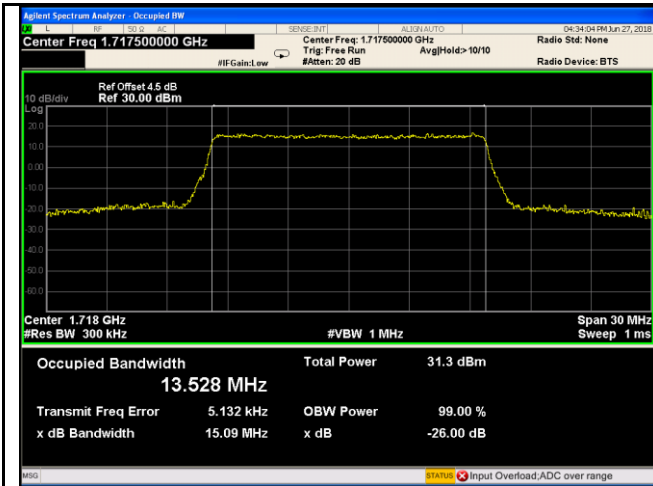
LTE Band IV - Middle CH 16QAM-10



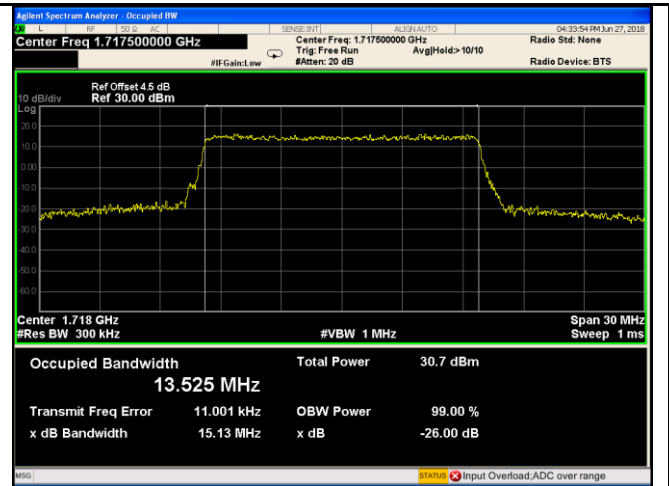
LTE Band IV - High CH QPSK-10



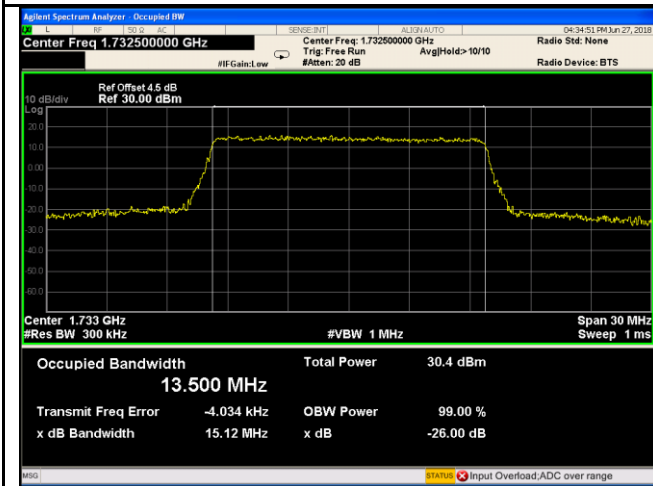
LTE Band IV - High CH 16QAM-10



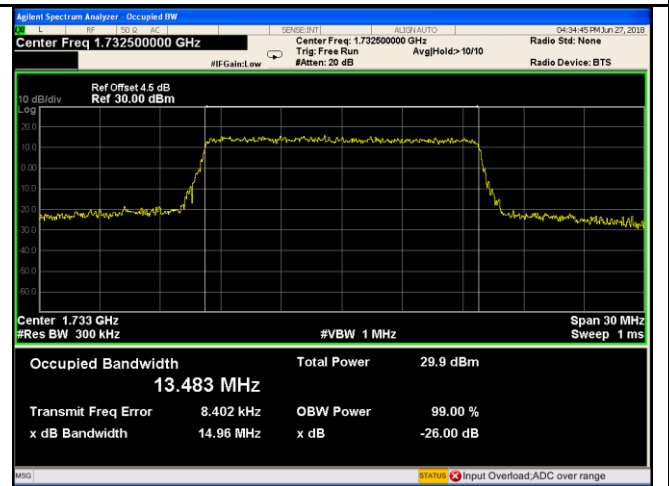
LTE Band IV - Low CH QPSK-15



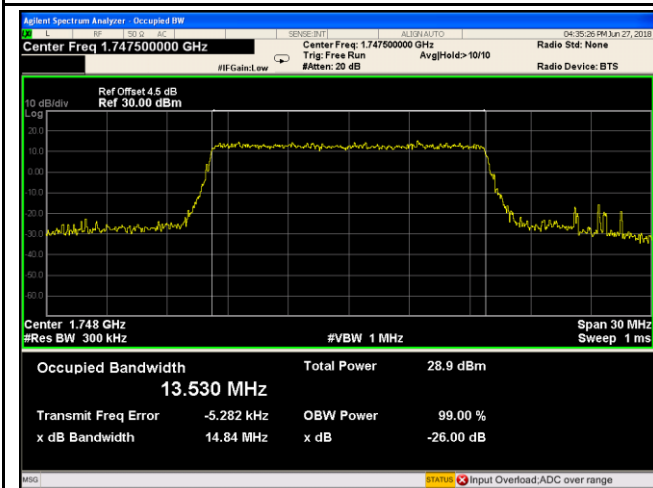
LTE Band IV - Low CH 16QAM-15



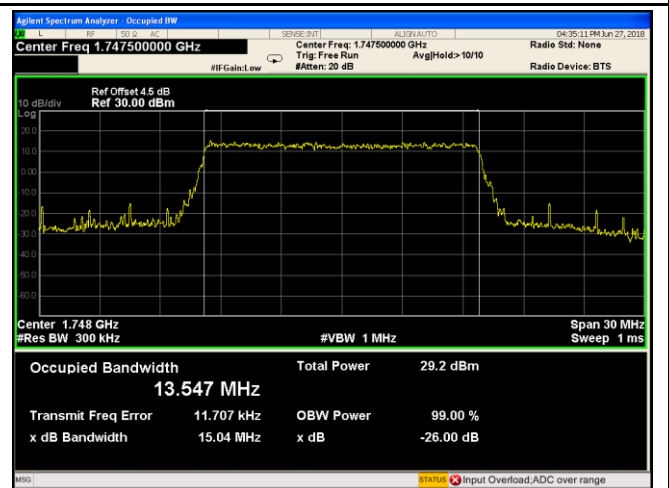
LTE Band IV - Middle CH QPSK-15



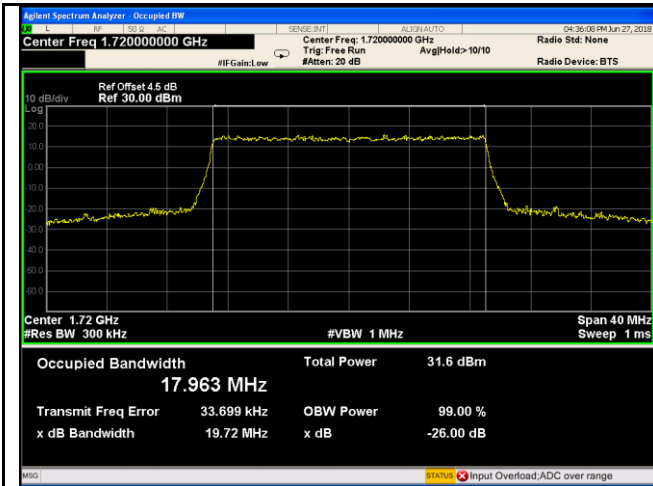
LTE Band IV - Middle CH 16QAM-15



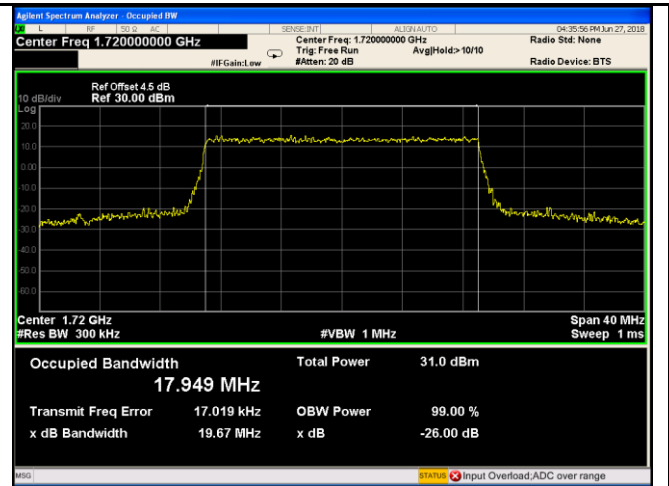
LTE Band IV - High CH QPSK-15



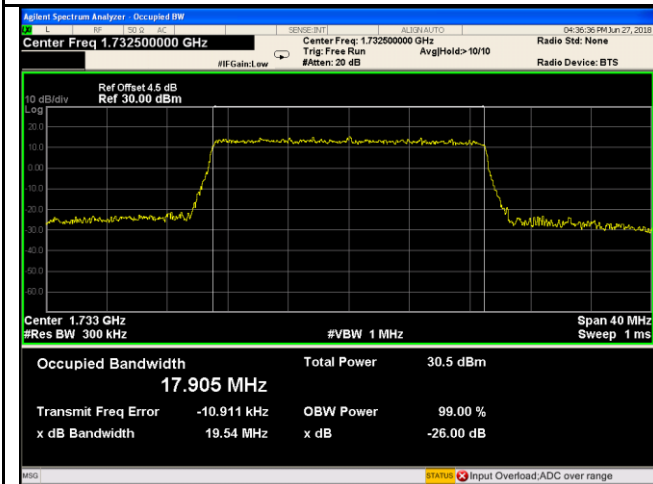
LTE Band IV - High CH 16QAM-15



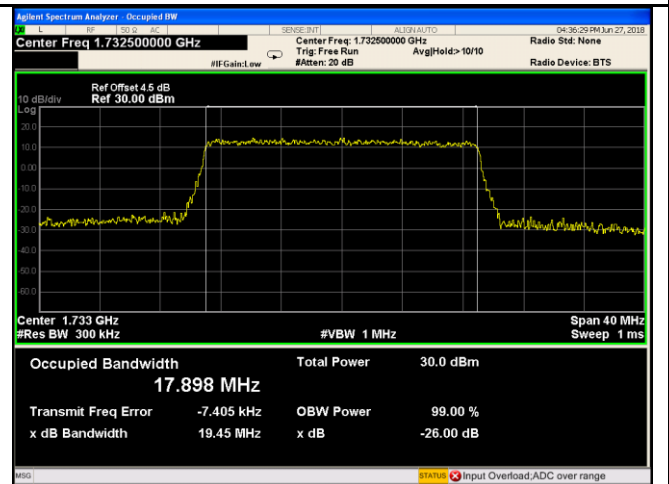
LTE Band IV - Low CH QPSK-20



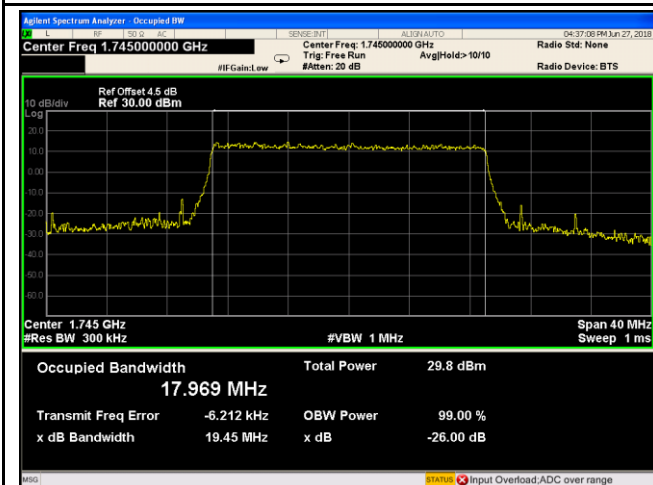
LTE Band IV - Low CH 16QAM-20



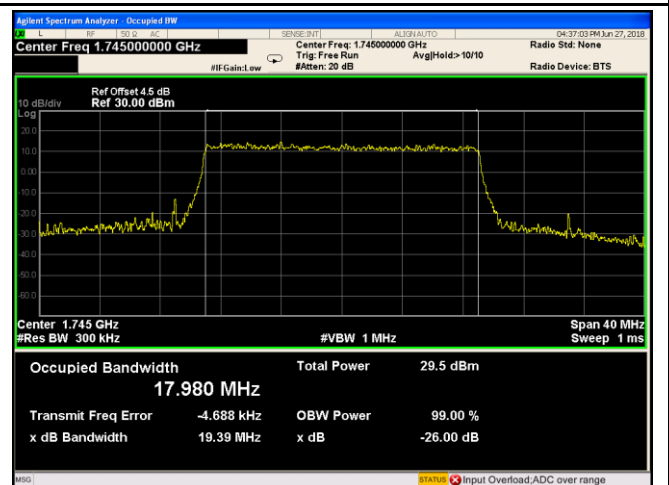
LTE Band IV - Middle CH QPSK-20



LTE Band IV - Middle CH 16QAM-20

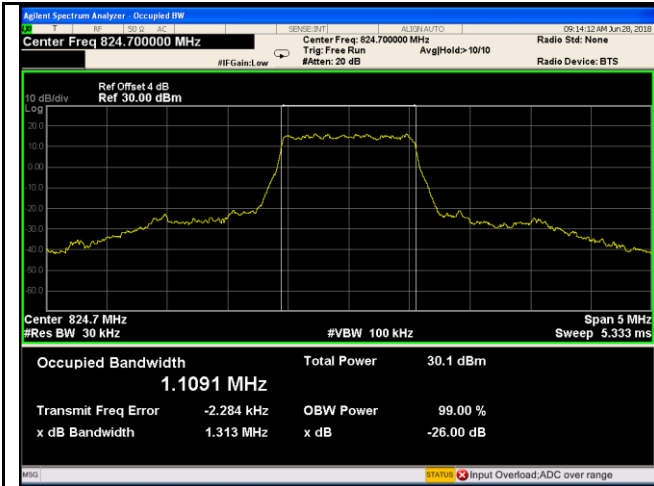


LTE Band IV - High CH QPSK-20

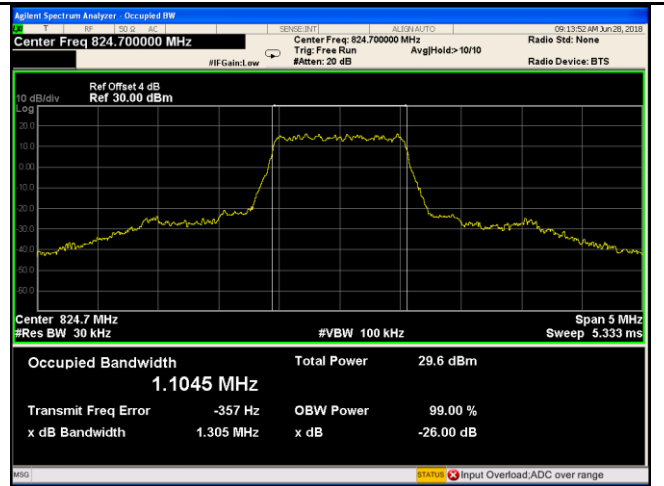


LTE Band IV - High CH 16QAM-20

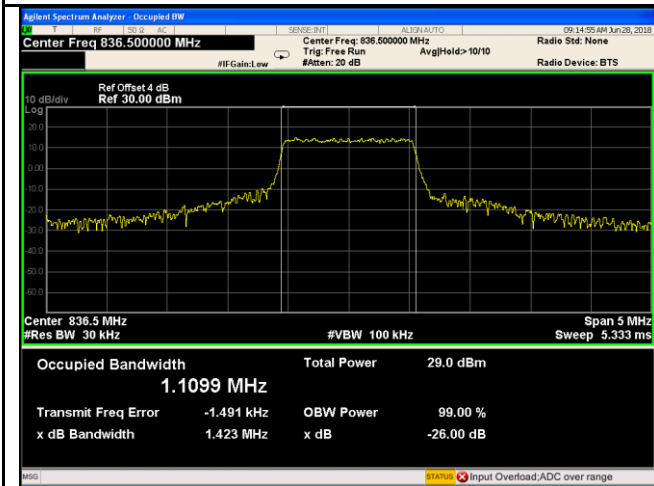
### LTE Band V (Part 22H)



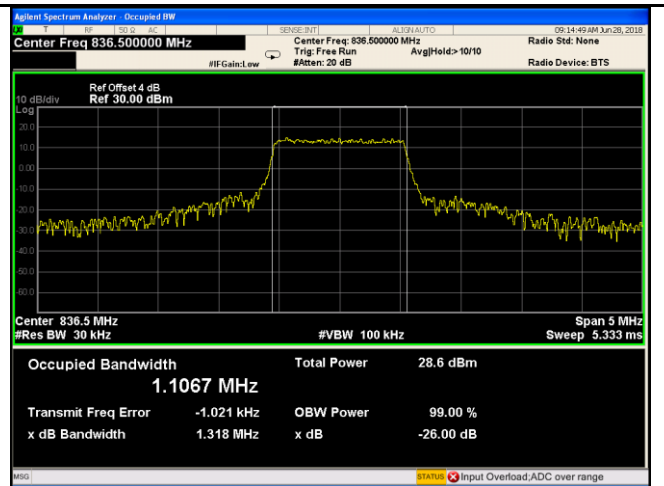
LTE Band V - Low CH QPSK-1.4



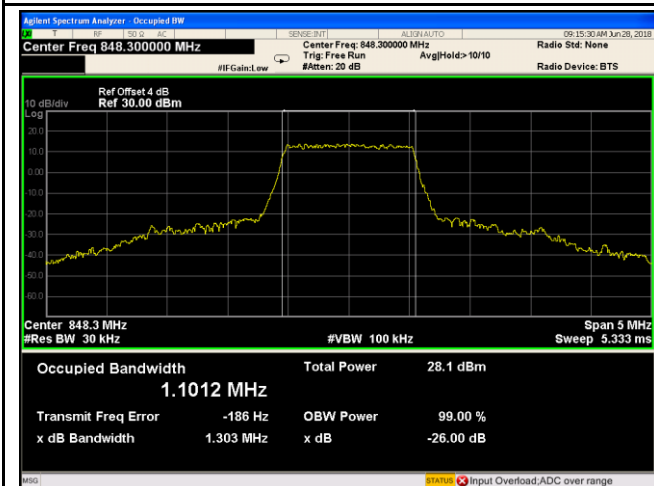
LTE Band V - Low CH 16QAM-1.4



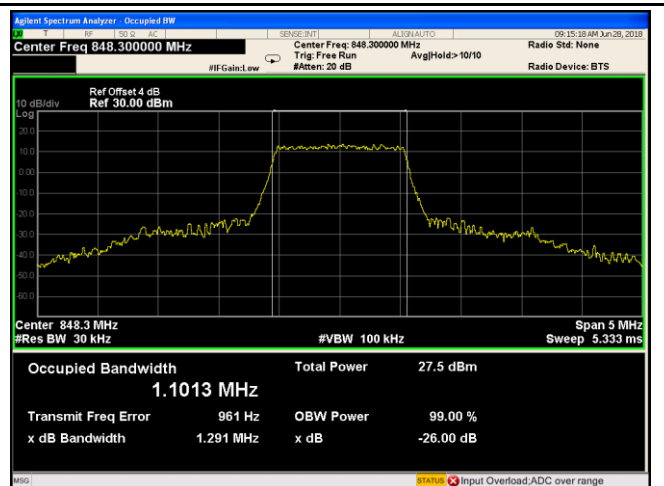
LTE Band V - Middle CH QPSK-1.4



LTE Band V - Middle CH 16QAM-1.4



LTE Band V - High CH QPSK-1.4



LTE Band V - High CH 16QAM-1.4