



# TEST REPORT

**APPLICANT** : Shenzhen Chainway Information  
Technology Co.,Ltd.

**PRODUCT NAME** : Mobile Data Terminal

**MODEL NAME** : C72

**BRAND NAME** : CHAINWAY

**FCC ID** : 2AC6AC72

**STANDARD(S)** : 47 CFR Part 22, Subpart H  
47 CFR Part 24, Subpart E  
47 CFR Part 27, Subpart L&M

**TEST DATE** : 2018-02-02 to 2018-05-21

**ISSUE DATE** : 2018-05-21

Tested by: Su Hang  
Su Hang (Test Engineer)

Approved by: Andy Yeh  
Andy Yeh (Technical Director)

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<b>Change History</b>		
<b>Issue</b>	<b>Date</b>	<b>Reason for change</b>
1.0	2018-05-21	First edition



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	Shenzhen Chainway Information Technology Co.,Ltd.
<b>Applicant Address:</b>	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen
<b>Manufacturer:</b>	Shenzhen Chainway Information Technology Co.,Ltd.
<b>Manufacturer Address:</b>	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen

## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	Mobile Data Terminal	
<b>Serial No:</b>	(N/A, marked #1 by test site)	
<b>Hardware Version:</b>	C70SE_MB_V11	
<b>Software Version:</b>	C72A_MT6735_V1.1-AM_GIT938ee72_20171205	
<b>Modulation Type:</b>	QPSK, 16QAM	
<b>Operation Band:</b>	Band 2 / 4 / 7 / 12 / 17	
<b>Frequency Range:</b>	LTE Band 2	Tx: 1850MHz -1910MHz
		Rx: 1930MHz -1990MHz
	LTE Band 4	Tx: 1710MHz -1755MHz
		Rx: 2110MHz - 2155MHz
	LTE Band 7	Tx: 2500MHz - 2570MHz
		Rx: 2500MHz - 2570MHz
LTE Band 12	Tx: 699MHz - 716MHz	
	Rx: 729MHz - 746MHz	
LTE Band 17	Tx: 704MHz - 716MHz	
	Rx: 734MHz- 746MHz	
<b>Channel Bandwidth</b>	LTE Band 2	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 4	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 7	5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 17	5 MHz, 10MHz



<b>Emission Designator:</b>	1M10G7D (LTE Band 2, QPSK, BW 1.4MHz) 1M10W7D (LTE Band 2, 16QAM, BW 1.4MHz) 2M71G7D (LTE Band 2, QPSK, BW 3MHz) 2M71 W7D (LTE Band 2, 16QAM, BW 3MHz) 4M53G7D (LTE Band 2, QPSK, BW 5MHz) 4M53W7D (LTE Band 2, 16QAM, BW 5MHz) 9M02G7D (LTE Band 2, QPSK, BW 10MHz) 9M01W7D (LTE Band 2, 16QAM, BW 10MHz) 13M52G7D (LTE Band 2, QPSK, BW 15MHz) 13M52W7D (LTE Band 2, 16QAM, BW 15MHz) 18M04G7D (LTE Band 2, QPSK, BW 20MHz) 18M05W7D (LTE Band 2, 16QAM, BW 20MHz) 1M13G7D (LTE Band 4, QPSK, BW 1.4MHz) 1M11W7D (LTE Band 4, 16QAM, BW 1.4MHz) 2M74G7D (LTE Band 4, QPSK, BW 3MHz) 2M73W7D (LTE Band 4, 16QAM, BW 3MHz) 4M57G7D (LTE Band 4, QPSK, BW 5MHz) 4M58W7D (LTE Band 4, 16QAM, BW 5MHz) 9M11G7D (LTE Band 4, QPSK, BW 10MHz) 9M06W7D (LTE Band 4, 16QAM, BW 10MHz) 13M60G7D (LTE Band 4, QPSK, BW 15MHz) 13M62W7D (LTE Band 4, 16QAM, BW 15MHz) 18M04G7D (LTE Band 4, QPSK, BW 20MHz) 18M09W7D (LTE Band 4, 16QAM, BW 20MHz) 4M54G7D (LTE Band 7, QPSK, BW 5MHz) 4M54W7D (LTE Band 7, 16QAM, BW 5MHz) 9M12G7D (LTE Band 7, QPSK, BW 10MHz) 9M01W7D (LTE Band 7, 16QAM, BW 10MHz) 13M54G7D (LTE Band 7, QPSK, BW 15MHz) 13M55W7D (LTE Band 7, 16QAM, BW 15MHz) 18M02G7D (LTE Band 7, QPSK, BW 20MHz) 18M06W7D (LTE Band 7, 16QAM, BW 20MHz) 1M10G7D (LTE Band 12, QPSK, BW 1.4MHz) 1M11W7D (LTE Band 12, 16QAM, BW 1.4MHz) 2M72G7D (LTE Band 12, QPSK, BW 3MHz) 2M71W7D (LTE Band 12, 16QAM, BW 3MHz) 4M54G7D (LTE Band 12, QPSK, BW 5MHz) 4M54W7D (LTE Band 12, 16QAM, BW 5MHz) 9M04G7D (LTE Band 12, QPSK, BW 10MHz)
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	9M03W7D (LTE Band 12, 16QAM, BW 10MHz) 4M54G7D (LTE Band 17, QPSK, BW 5MHz) 4M54W7D (LTE Band 17, 16QAM, BW 5MHz) 9M03G7D (LTE Band 17, QPSK, BW 10MHz) 9M04W7D (LTE Band 17, 16QAM, BW 10MHz)	
<b>Antenna Type:</b>	PIFA Antenna	
<b>Antenna Gain:</b>	0.49 dBi	
<b>Operating voltage:</b>	Normal(NV):	3.8V
	Lowest(LV):	3.6V
	Highest(HV):	4.35V

**Note 1:** For a more detailed description, please refer to Specification or User’s Manual supplied by the applicant and/or manufacturer.



### 1.3. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 24 and Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 24	Personal Communications Services
3	47 CFR Part 27	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result
2.1046	Transmitter Conducted Output Power	May 21, 2018	Su Hang	PASS
2.1049	Occupied Bandwidth	Feb 02&05, 2018	Su Hang	PASS
2.1055, 24.235, 27.54	Frequency Stability	Feb 05, 2018	Su Hang	PASS
24.232(d), 27.50(d)(5)	Peak to Average Ratio	Feb 05, 2018	Su Hang	PASS
2.1051, 24.238, 27.53(g)(h), 27.53(m)(4)	Conducted Spurious Emissions	Feb 05, 2018	Su Hang	PASS
2.1051, 24.238, 27.53(g)(h), 27.53(m)(4)	Band Edge	Feb 09&24, 2018	Su Hang	PASS
24.232(c), 27.50(c)(10), 27.50(d)(4), 27.50(h)(2)	Equivalent Isotropic Radiated Power	May 20, 2018	Wu Zhongwen	PASS
2.1051, 24.238, 27.53(g)(h), 27.53(m)(4)	Radiated Spurious Emissions	Feb 02, 2018	Wu Zhongwen	PASS
<b>Note:</b> The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 (Oct 27, 2017) and ANSI/TIA-603-E-2016.				

### 1.4. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

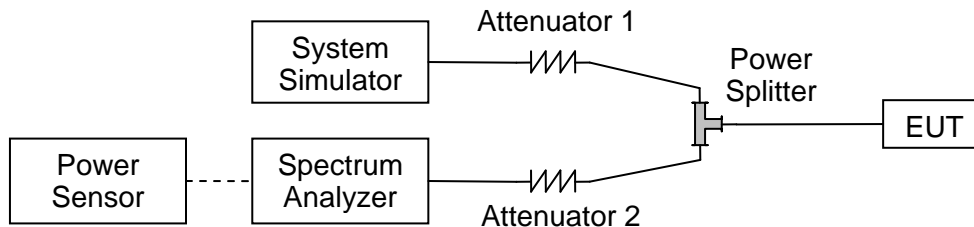
## 2. 47 CFR Part 2, Part 24E & 27 Requirements

### 2.1. Transmitter Conducted Output Power

#### 2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

#### 2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

#### 2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

#### 2.1.4. Result





Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 2	20MHz	L 18700	1860	QPSK	1	0	23.02
					1	49	22.94
					1	99	22.75
					50	0	22.43
					50	25	22.31
					50	49	22.15
				16-QAM	100	0	22.15
					1	0	21.73
					1	49	21.88
					1	99	21.93
					50	0	20.83
					50	25	20.74
		M 18900	1880	QPSK	50	49	20.77
					100	0	20.77
					1	0	23.08
					1	49	23.02
					1	99	22.95
					50	0	23.05
				16-QAM	50	25	22.82
					50	49	22.76
					100	0	22.55
					1	0	22.21
					1	49	22.28
					1	99	22.02
		H 19100	1900	QPSK	50	0	20.98
					50	25	20.91
					50	49	20.99
					100	0	21.00
					1	0	23.14
					1	49	23.22
16-QAM	1			99	23.27		
	50			0	22.83		
	50			25	22.74		
	50			49	22.73		
	100			0	22.73		
	1			0	22.43		
	1	49	22.29				
	1	99	22.20				
	50	0	21.07				
	50	25	21.04				
	50	49	21.13				
	100	0	21.15				



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 2	15MHz	L 18675	1857.5	QPSK	1	0	22.57
					1	37	22.39
					1	74	22.24
					36	0	21.99
					36	18	21.76
					36	35	21.72
					75	0	21.55
				16-QAM	1	0	21.71
					1	37	21.86
					1	74	21.82
					36	0	20.65
					36	18	20.62
					36	35	20.64
					75	0	20.64
		M 18900	1880	QPSK	1	0	23.24
					1	37	23.11
					1	74	23.00
					36	0	23.11
					36	18	22.98
					36	35	22.83
					75	0	22.81
				16-QAM	1	0	22.26
					1	37	22.28
					1	74	21.89
					36	0	20.92
					36	18	20.92
					36	35	20.89
					75	0	20.92
		H 19125	1902.5	QPSK	1	0	23.22
					1	37	23.13
1	74				22.96		
36	0				22.96		
36	18				22.76		
36	35				22.62		
75	0				22.74		
16-QAM	1			0	22.47		
	1			37	22.25		
	1			74	22.35		
	36			0	20.98		
	36			18	21.01		
	36			35	21.04		
	75			0	21.05		



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 2	10MHz	L 18650	1855	QPSK	1	0	22.49
					1	24	22.89
					1	49	22.88
					25	0	21.75
					25	12	21.53
					25	24	21.40
				16-QAM	50	0	21.49
					1	0	21.46
					1	24	21.94
					1	49	21.85
					25	0	20.57
					25	12	20.49
		M 18900	1880	QPSK	25	24	20.51
					50	0	20.59
					1	0	22.76
					1	24	22.92
					1	49	23.04
					25	0	23.01
				16-QAM	25	12	22.81
					25	24	22.90
					50	0	22.88
					1	0	21.64
					1	24	22.30
					1	49	21.87
		H 19150	1905	QPSK	25	0	20.88
					25	12	20.84
					25	24	20.88
					50	0	20.93
					1	0	22.91
					1	24	23.00
16-QAM	1			49	23.31		
	25			0	22.36		
	25			12	22.21		
	25			24	22.19		
	50			0	22.05		
	1			0	21.83		
16-QAM	1	24	22.17				
	1	49	22.03				
	25	0	20.98				
	25	12	20.96				
	25	24	21.07				
	50	0	21.05				



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 2	5MHz	L 18625	1852.5	QPSK	1	0	22.48
					1	12	22.33
					1	24	22.35
					12	0	21.12
					12	6	21.31
					12	11	21.37
					25	0	21.05
				16-QAM	1	0	21.36
					1	12	21.80
					1	24	21.45
					12	0	20.62
					12	6	20.50
					12	11	20.55
					25	0	20.48
		M 18900	1880	QPSK	1	0	22.81
					1	12	22.85
					1	24	22.72
					12	0	22.96
					12	6	22.49
					12	11	22.69
					25	0	22.49
				16-QAM	1	0	21.57
					1	12	22.08
					1	24	21.81
					12	0	20.83
					12	6	20.82
					12	11	20.86
					25	0	20.86
		H 19175	1907.5	QPSK	1	0	22.92
					1	12	22.79
1	24				22.80		
12	0				22.22		
12	6				22.01		
12	11				22.03		
25	0				22.01		
16-QAM	1			0	21.96		
	1			12	22.35		
	1			24	21.75		
	12			0	21.08		
	12			6	21.00		
	12			11	21.10		
	25			0	20.96		



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 2	3MHz	L 18615	1851.5	QPSK	1	0	23.21
					1	7	23.30
					1	14	23.05
					8	0	22.65
					8	4	22.63
					8	7	22.51
				16-QAM	15	0	22.19
					1	0	21.88
					1	7	21.52
					1	14	21.54
					8	0	20.47
					8	4	20.40
		M 18900	1880	QPSK	8	7	20.51
					15	0	20.53
					1	0	23.43
					1	7	23.43
					1	14	23.14
					8	0	22.67
				16-QAM	8	4	22.32
					8	7	22.45
					15	0	22.19
					1	0	22.27
					1	7	21.78
					1	14	21.93
		H 19185	1908.5	QPSK	8	0	20.97
					8	4	20.87
					8	7	20.83
					15	0	20.95
					1	0	23.43
					1	7	23.02
16-QAM	1			14	23.20		
	8			0	22.44		
	8			4	22.58		
	8			7	22.30		
	15			0	22.00		
	1			0	22.21		
16-QAM	1	7	22.15				
	1	14	22.31				
	8	0	20.92				
	8	4	21.10				
	8	7	21.05				
	15	0	20.98				



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 2	1.4MHz	L 18607	1850.7	QPSK	1	0	22.24
					1	2	22.13
					1	5	22.23
					3	0	21.96
					3	1	21.76
					3	2	21.63
				16-QAM	6	0	21.45
					1	0	21.32
					1	2	21.74
					1	5	21.40
					3	0	21.47
					3	1	21.46
		M 18900	1880	QPSK	3	2	21.38
					6	0	20.46
					1	0	22.54
					1	2	22.75
					1	5	22.54
					3	0	22.40
				16-QAM	3	1	22.38
					3	2	22.43
					6	0	23.10
					1	0	21.68
					1	2	22.28
					1	5	21.64
		H 19193	1909.3	QPSK	3	0	22.21
					3	2	21.99
					3	5	21.79
					6	0	20.87
					1	0	22.65
					1	2	22.35
				16-QAM	1	5	22.70
					3	0	22.29
					3	1	22.26
					3	2	22.23
					6	0	22.02
					1	0	22.01
16-QAM	1	2	22.19				
	1	5	21.96				
	3	0	21.91				
	3	1	22.14				
	3	2	22.12				
	6	0	21.07				



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 4	20MHz	L 20050	1720.0	QPSK	1	0	23.36
					1	49	23.30
					1	99	23.41
					50	0	23.32
					50	25	22.80
					50	49	22.80
				16-QAM	100	0	22.68
					1	0	22.60
					1	49	22.54
					1	99	22.14
					50	0	21.23
					50	25	21.11
		M 20175	1732.5	QPSK	50	49	21.02
					100	0	21.14
					1	0	23.38
					1	49	23.52
					1	99	23.34
					50	0	23.31
				16-QAM	50	25	23.32
					50	49	23.03
					100	0	22.96
					1	0	22.33
					1	49	22.50
					1	99	22.44
		H 20300	1745.0	QPSK	50	0	21.24
					50	25	21.10
					50	49	21.20
					100	0	21.18
					1	0	23.93
					1	49	23.81
16-QAM	1			99	23.99		
	50			0	23.34		
	50			25	23.86		
	50			49	23.90		
	100			0	23.48		
	1			0	22.66		
16-QAM	1	49	22.59				
	1	99	22.77				
	50	0	21.44				
	50	25	21.46				
	50	49	21.74				
	100	0	21.55				



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 4	15MHz	L 20025	1717.5	QPSK	1	0	22.80
					1	37	22.82
					1	74	22.63
					36	0	22.42
					36	18	22.51
					36	35	22.52
					75	0	22.46
				16-QAM	1	0	22.49
					1	37	22.42
					1	74	22.10
					36	0	21.18
					36	18	21.12
					36	35	21.03
					75	0	21.10
		M 20175	1732.5	QPSK	1	0	23.14
					1	37	23.02
					1	74	22.87
					36	0	22.63
					36	18	22.40
					36	35	22.55
					75	0	22.00
				16-QAM	1	0	22.37
					1	37	22.12
					1	74	22.18
					36	0	21.13
					36	18	21.05
					36	35	21.09
					75	0	21.13
		H 20325	1747.5	QPSK	1	0	23.66
					1	37	23.62
1	74				23.59		
36	0				23.02		
36	18				23.11		
36	35				22.96		
75	0				22.91		
16-QAM	1			0	22.51		
	1			37	22.95		
	1			74	22.91		
	36			0	21.46		
	36			18	21.63		
	36			35	21.78		
	75			0	21.61		





Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 4	10MHz	L 20000	1715.0	QPSK	1	0	23.08
					1	24	22.98
					1	49	22.78
					25	0	23.22
					25	12	22.96
					25	24	22.82
				16-QAM	50	0	22.83
					1	0	21.85
					1	24	22.29
					1	49	22.28
					25	0	21.07
					25	12	21.02
					25	24	21.01
					50	0	21.04
		M 20175	1732.5	QPSK	1	0	23.09
					1	24	23.00
					1	49	22.84
					25	0	23.21
					25	12	22.81
					25	24	22.69
				16-QAM	50	0	22.52
					1	0	22.12
					1	24	22.36
					1	49	22.37
					25	0	21.06
					25	12	20.98
					25	24	21.07
					50	0	21.13
		H 20350	1750.0	QPSK	1	0	23.75
					1	24	23.61
1	49				24.00		
25	0				23.90		
25	12				23.89		
25	24				23.62		
16-QAM	50			0	23.33		
	1			0	22.46		
	1			24	22.80		
	1			49	23.17		
	25			0	21.54		
	25			12	21.61		
	25			24	21.76		
	50			0	21.70		



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 4	5MHz	L 19975	1712.5	QPSK	1	0	23.05
					1	12	22.98
					1	24	22.79
					12	0	23.20
					12	6	22.74
					12	11	22.81
				25	0	22.72	
				16-QAM	1	0	22.14
					1	12	22.41
					1	24	21.93
					12	0	21.06
					12	6	21.06
		12	11		21.10		
		25	0	21.01			
		M 20175	1732.5	QPSK	1	0	22.91
					1	12	23.19
					1	24	23.00
					12	0	23.18
					12	6	22.99
					12	11	22.98
				25	0	22.77	
				16-QAM	1	0	21.89
					1	12	22.13
					1	24	21.68
					12	0	21.16
					12	6	20.95
		12	11		21.00		
		25	0	20.95			
		H 20375	1752.5	QPSK	1	0	23.72
					1	12	23.44
1	24				23.57		
12	0				23.00		
12	6				22.46		
12	11				23.84		
25	0			22.56			
16-QAM	1			0	22.63		
	1			12	23.09		
	1			24	22.41		
	12			0	21.71		
	12			6	21.69		
	12	11	21.68				
25	0	21.65					



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 4	3MHz	L 19965	1711.5	QPSK	1	0	23.56
					1	7	23.35
					1	14	23.22
					8	0	23.23
					8	4	23.02
					8	7	23.01
				15	0	22.86	
				16-QAM	1	0	22.15
					1	7	22.04
					1	14	22.47
					8	0	20.95
					8	4	21.07
		8	7		21.05		
		M 20175	1732.5	QPSK	1	0	23.21
					1	7	23.14
					1	14	23.34
					8	0	22.42
					8	4	22.70
					8	7	22.35
				15	0	22.40	
				16-QAM	1	0	22.19
					1	7	22.31
					1	14	22.40
					8	0	21.19
					8	4	21.09
		8	7		20.99		
		H 20385	1753.5	QPSK	1	0	23.87
					1	7	23.42
					1	14	23.35
					8	0	23.57
8	4				22.97		
8	7				23.14		
15	0			23.30			
16-QAM	1			0	23.01		
	1			7	22.86		
	1			14	23.09		
	8			0	21.56		
	8			4	21.60		
	8	7	21.87				
15	0	21.70					



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)	
					RB Size	RB Offset		
LTE Band 4	1.4MHz	L 19957	1710.7	QPSK	1	0	22.69	
					1	2	22.52	
					1	5	22.35	
					3	0	22.11	
					3	1	22.00	
					3	2	22.21	
				16-QAM	6	0	23.16	
					1	0	21.92	
					1	2	22.27	
					1	5	21.92	
					3	0	22.34	
					3	1	22.13	
		M 20175	1732.5	QPSK	1732.5	3	2	21.93
						6	0	21.01
						1	0	22.74
						1	2	22.56
						1	5	22.44
						3	0	22.42
				16-QAM	3	1	22.10	
					3	2	22.35	
					6	0	23.20	
					1	0	21.72	
					1	2	22.42	
					1	5	21.89	
		H 20393	1754.3	QPSK	1754.3	3	0	22.07
						3	2	22.18
						3	5	22.10
						6	0	21.00
						1	0	23.77
						1	2	23.32
				16-QAM	1	5	23.56	
					3	0	23.15	
					3	1	23.01	
					3	2	23.23	
					6	0	23.87	
					1	0	22.56	
16-QAM	1	2	22.74					
	1	5	22.52					
	3	0	22.82					
	3	1	22.75					
	3	2	22.70					
	6	0	21.71					



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 7	20MHz	L 20850	2510	QPSK	1	0	22.68
					1	49	22.42
					1	99	23.00
					50	0	21.99
					50	25	22.31
					50	49	22.20
					100	0	22.01
				16-QAM	1	0	21.38
					1	49	21.95
					1	99	21.87
					50	0	20.58
					50	25	20.59
					50	49	20.76
					100	0	20.68
		M 21100	2535	QPSK	1	0	23.87
					1	49	23.44
					1	99	23.87
					50	0	23.88
					50	25	23.67
					50	49	23.53
					100	0	22.98
				16-QAM	1	0	22.93
					1	49	22.93
					1	99	23.09
					50	0	21.77
					50	25	21.48
					50	49	21.67
					100	0	21.80
		H 21350	2560	QPSK	1	0	24.18
					1	49	23.92
1	99				23.98		
50	0				23.25		
50	25				23.51		
50	49				23.05		
100	0				23.12		
16-QAM	1			0	23.44		
	1			49	23.07		
	1			99	22.85		
	50			0	21.92		
	50			25	21.82		
	50			49	21.77		
	100			0	21.93		



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 7	15MHz	L 20825	2507.5	QPSK	1	0	22.89
					1	37	22.26
					1	74	22.27
					36	0	21.63
					36	18	21.94
					36	35	22.21
				16-QAM	75	0	22.10
					1	0	21.86
					1	37	22.12
					1	74	21.85
					36	0	20.43
					36	18	20.60
		M 21100	2535	QPSK	36	35	20.67
					75	0	20.56
					1	0	24.17
					1	37	24.13
					1	74	23.98
					36	0	23.20
				16-QAM	36	18	23.40
					36	35	22.99
					75	0	22.89
					1	0	23.06
					1	37	22.92
					1	74	22.93
		H 21375	2562.5	QPSK	36	0	21.62
					36	18	21.49
					36	35	21.60
					75	0	21.56
					1	0	23.97
					1	37	23.45
				16-QAM	1	74	23.87
					36	0	23.42
					36	18	23.06
					36	35	23.00
					75	0	23.04
					1	0	22.84
16-QAM	1	37	22.84				
	1	74	22.85				
	36	0	21.77				
	36	18	21.81				
	36	35	21.81				
	75	0	21.83				



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 7	10MHz	L 20800	2505	QPSK	1	0	22.76
					1	24	22.43
					1	49	22.13
					25	0	22.72
					25	12	22.65
					25	24	22.22
				16-QAM	50	0	21.97
					1	0	21.06
					1	24	21.74
					1	49	21.82
					25	0	20.42
					25	12	20.39
		M 21100	2535	QPSK	25	24	20.57
					50	0	20.50
					1	0	23.89
					1	24	23.82
					1	49	23.58
					25	0	22.97
				16-QAM	25	12	23.21
					25	24	23.31
					50	0	22.99
					1	0	22.63
					1	24	22.71
					1	49	22.68
		H 21400	2565	QPSK	25	0	21.56
					25	12	21.42
					25	24	21.51
					50	0	21.51
					1	0	23.86
					1	24	23.14
16-QAM	1			49	23.19		
	25			0	22.98		
	25			12	23.23		
	25			24	23.18		
	50			0	23.30		
	1			0	22.68		
1	24	23.02					
1	49	23.12					
25	0	21.75					
25	12	21.69					
25	24	21.80					
50	0	21.79					



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 7	5MHz	L 20775	2502.5	QPSK	1	0	22.29
					1	12	22.25
					1	24	22.27
					12	0	21.84
					12	6	21.81
					12	11	21.61
				16-QAM	25	0	21.34
					1	0	21.21
					1	12	21.57
					1	24	21.05
					12	0	20.29
					12	6	20.34
		M 21100	2535	QPSK	12	11	20.32
					25	0	20.31
					1	0	23.55
					1	12	23.34
					1	24	23.59
					12	0	23.58
				16-QAM	12	6	23.35
					12	11	23.43
					25	0	22.18
					1	0	22.53
					1	12	22.75
					1	24	22.81
		H 21425	2567.5	QPSK	12	0	21.63
					12	6	21.37
					12	11	21.54
					25	0	21.54
					1	0	23.68
					1	12	23.66
16-QAM	1			24	23.63		
	12			0	23.03		
	12			6	23.23		
	12			11	23.20		
	25			0	23.28		
	1			0	22.67		
16-QAM	1	12	22.93				
	1	24	22.72				
	12	0	21.77				
	12	6	21.81				
	12	11	21.83				
	25	0	21.74				





Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 12	10MHz	L 23060	704	QPSK	1	0	22.22
					1	24	22.21
					1	49	22.22
					25	0	21.87
					25	12	21.87
					25	24	21.77
				16-QAM	50	0	21.57
					1	0	21.68
					1	24	21.58
					1	49	21.60
					25	0	20.26
					25	12	20.12
		M 23095	707.5	QPSK	25	24	20.07
					50	0	20.22
					1	0	22.19
					1	24	21.10
					1	49	22.12
					25	0	22.29
				16-QAM	25	12	22.36
					25	24	21.99
					50	0	22.09
					1	0	21.46
					1	24	21.59
					1	49	21.02
		H 23130	711	QPSK	25	0	20.20
					25	12	20.06
					25	24	20.04
					50	0	20.12
					1	0	21.97
					1	24	21.56
16-QAM	1			49	21.84		
	25			0	21.24		
	25			12	21.62		
	25			24	21.40		
	50			0	21.21		
	1			0	20.93		
16-QAM	1	24	21.08				
	1	49	20.88				
	25	0	19.96				
	25	12	19.85				
	25	24	19.73				
	50	0	19.92				



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 12	5MHz	L 23035	701.5	QPSK	1	0	22.27
					1	12	21.85
					1	24	21.99
					12	0	21.85
					12	6	21.64
					12	11	21.52
					25	0	21.63
				16-QAM	1	0	21.37
					1	12	21.89
					1	24	21.15
					12	0	20.41
					12	6	20.15
					12	11	20.24
					25	0	20.29
		M 23095	707.5	QPSK	1	0	22.10
					1	12	22.11
					1	24	21.79
					12	0	22.22
					12	6	22.11
					12	11	21.97
					25	0	22.01
				16-QAM	1	0	21.10
					1	12	21.27
					1	24	21.09
					12	0	20.18
					12	6	20.09
					12	11	20.08
					25	0	20.04
		H 23155	713.5	QPSK	1	0	21.62
					1	12	21.35
1	24				21.25		
12	0				21.62		
12	6				21.44		
12	11				21.49		
25	0				21.14		
16-QAM	1			0	20.74		
	1			12	21.22		
	1			24	20.32		
	12			0	19.84		
	12			6	19.67		
	12			11	19.47		
	25			0	19.60		



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 12	3MHz	L 23025	700.5	QPSK	1	0	23.50
					1	7	23.21
					1	14	23.48
					8	0	22.96
					8	4	22.79
					8	7	22.65
				15	0	22.30	
				16-QAM	1	0	21.92
					1	7	21.73
					1	14	21.55
					8	0	20.45
					8	4	20.35
		8	7		20.46		
		15	0	20.26			
		M 23095	707.5	QPSK	1	0	22.58
					1	7	22.32
					1	14	22.15
					8	0	22.10
					8	4	21.98
					8	7	21.98
				15	0	21.86	
				16-QAM	1	0	21.44
					1	7	21.36
					1	14	21.46
					8	0	20.10
					8	4	20.18
		8	7		19.94		
		15	0	20.14			
		H 23165	714.5	QPSK	1	0	22.36
					1	7	22.49
1	14				22.32		
8	0				21.90		
8	4				21.87		
8	7				21.76		
15	0			21.46			
16-QAM	1			0	20.95		
	1			7	20.45		
	1			14	20.55		
	8			0	19.45		
	8			4	19.28		
	8	7	19.30				
15	0	19.58					



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 12	1.4MHz	L 23017	699.7	QPSK	1	0	22.11
					1	2	22.11
					1	5	22.29
					3	0	21.90
					3	1	21.67
					3	2	21.34
				6	0	21.54	
				16-QAM	1	0	21.10
					1	2	21.97
					1	5	21.25
					3	0	21.54
					3	1	21.80
		3	2		21.46		
		M 23095	707.5	QPSK	1	0	21.74
					1	2	21.62
					1	5	21.38
					3	0	21.21
					3	1	21.06
					3	2	20.95
				6	0	22.14	
				16-QAM	1	0	21.08
					1	2	21.47
					1	5	21.01
					3	0	21.50
					3	2	21.22
		3	5		21.08		
		H 23173	715.3	QPSK	1	0	21.22
					1	2	21.45
					1	5	21.60
					3	0	21.01
					3	1	20.80
					3	2	20.83
				6	0	20.66	
				16-QAM	1	0	20.35
					1	2	20.74
					1	5	20.10
3	0				20.56		
3	1				20.62		
3	2	20.49					
6	0	19.49					



Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)	
					RB Size	RB Offset		
LTE Band 17	10MHz	L 23780	709	QPSK	1	0	22.26	
					1	24	22.14	
					1	49	22.01	
					25	0	22.40	
					25	12	22.22	
					25	24	22.19	
				16-QAM	50	0	21.89	
					1	0	21.50	
					1	24	21.37	
					1	49	21.36	
					25	0	20.28	
					25	12	20.27	
		M 23790	710	QPSK	710	1	0	22.26
						1	24	22.32
						1	49	22.44
						25	0	22.38
						25	12	22.13
						25	24	21.99
				16-QAM	50	0	21.99	
					1	0	21.20	
					1	24	21.58	
					1	49	21.28	
					25	0	20.33	
					25	12	20.13	
		H 23800	711	QPSK	711	1	0	21.98
						1	24	21.47
						1	49	21.91
						25	0	21.93
						25	12	21.65
						25	24	21.89
16-QAM	50			0	21.58			
	1			0	21.41			
	1			24	21.24			
	1			49	20.93			
	25			0	20.10			
	25			12	19.97			
25	24	19.80						
50	0	19.95						



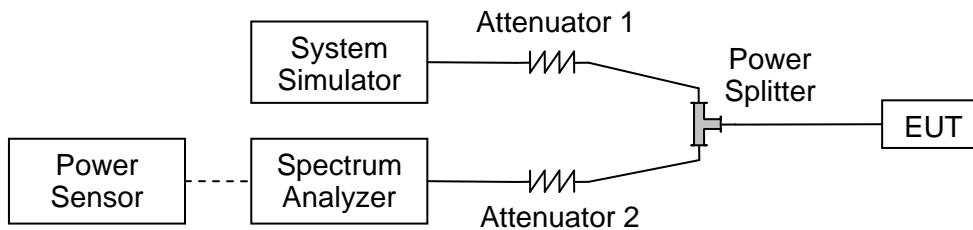
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Configuration		Average Power (dBm)
					RB Size	RB Offset	
LTE Band 17	5MHz	L 23755	706.5	QPSK	1	0	22.16
					1	12	22.10
					1	24	22.14
					12	0	22.32
					12	6	21.90
					12	11	21.95
				16-QAM	25	0	21.92
					1	0	21.01
					1	12	21.50
					1	24	21.00
					12	0	20.37
					12	6	20.27
		M 23790	710	QPSK	12	11	20.24
					25	0	20.24
					1	0	22.16
					1	12	22.06
					1	24	22.20
					12	0	22.28
				16-QAM	12	6	22.21
					12	11	21.94
					25	0	21.92
					1	0	21.34
					1	12	21.58
					1	24	21.23
		H 23825	713.5	QPSK	12	0	20.34
					12	6	20.07
					12	11	20.17
					25	0	20.07
					1	0	21.69
					1	12	21.53
16-QAM	1			24	21.40		
	12			0	21.59		
	12			6	21.36		
	12			11	21.28		
	25			0	21.30		
	1			0	20.95		
16-QAM	1	12	20.87				
	1	24	20.54				
	12	0	19.83				
	12	6	19.72				
	12	11	19.51				
	25	0	19.72				

## 2.2. Occupied Bandwidth

### 2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

### 2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

### 2.2.4. Test Result

LTE Band 2, BW: 1.4MHz					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
18607	1850.7	1.1006	1.283	1.0949	1.260
18900	1880.0	1.0976	1.273	1.1012	1.283
19192	1909.2	1.1010	1.287	1.0962	1.258



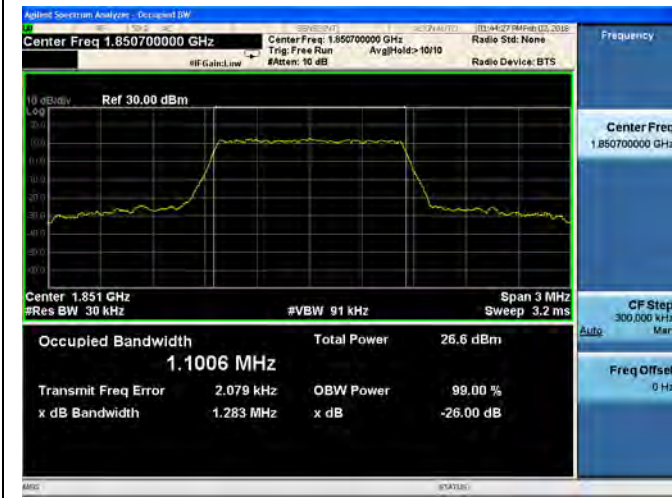
<b>LTE Band 2, BW: 3MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
18615	1851.5	2.7149	2.973	2.7067	2.990
18900	1880.0	2.7072	2.984	2.7131	2.994
19184	1908.4	2.7081	2.977	2.7037	2.974
<b>LTE Band 2, BW: 5MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
18625	1852.5	4.5322	5.088	4.5336	5.065
18900	1880.0	4.5348	5.046	4.5330	5.083
19175	1907.5	4.4760	4.870	4.4676	4.888
<b>LTE Band 2, BW: 10MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
18650	1855.0	8.9822	9.955	8.9948	9.937
18900	1880.0	9.0175	10.93	9.0089	9.852
19150	1905.0	8.9988	9.991	8.9851	9.974
<b>LTE Band 2, BW: 15MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
18675	1857.5	13.488	15.06	13.488	14.42
18900	1880.0	13.524	14.96	13.519	14.90
19125	1902.5	13.483	15.03	13.497	14.96
<b>LTE Band 2, BW: 20MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
18700	1860.0	17.997	19.63	18.054	19.95
18900	1880.0	18.041	21.39	18.100	22.37
19100	1900.0	17.992	19.70	17.951	19.52



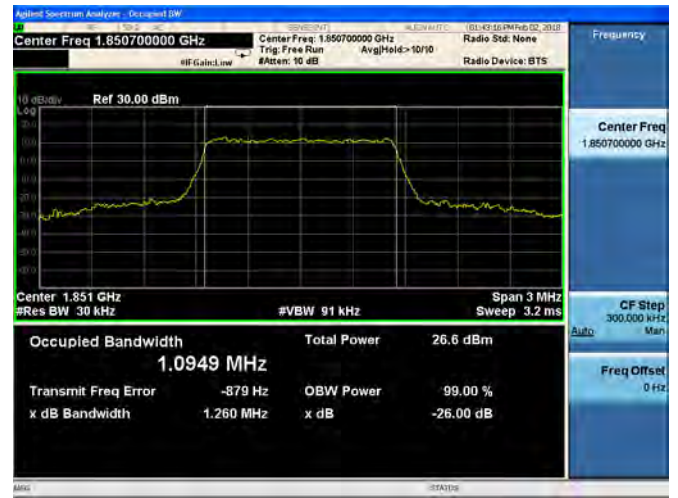


LTE Band 2 99%&26dB Bandwidth

1.4MHz/QPSK/Low CH



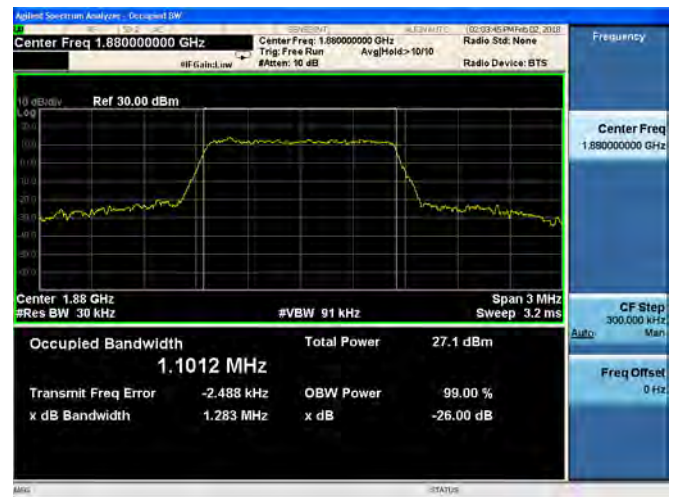
1.4MHz/16QAM/Low CH

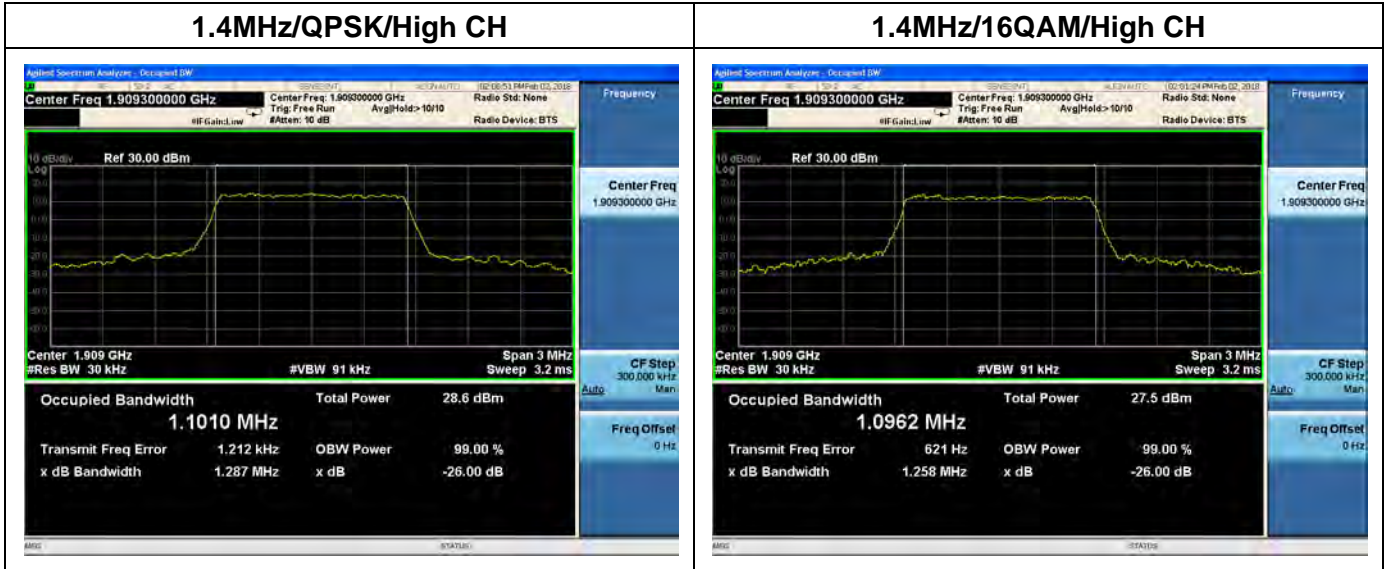


1.4MHz/QPSK/Mid CH



1.4MHz/16QAM/Mid CH



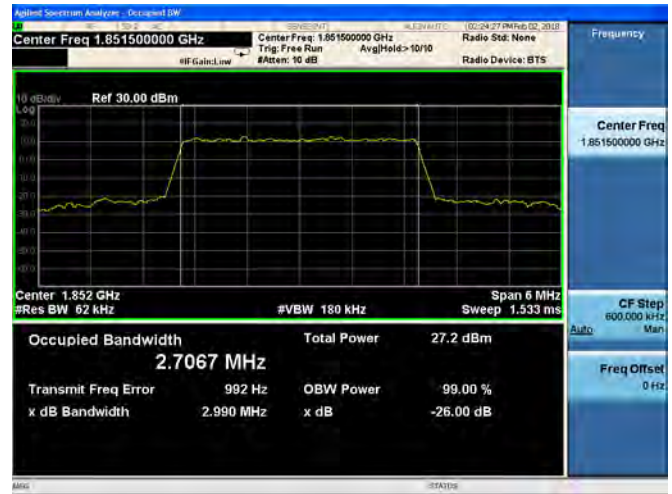




**3MHz/QPSK/Low CH**



**3MHz/16QAM/Low CH**



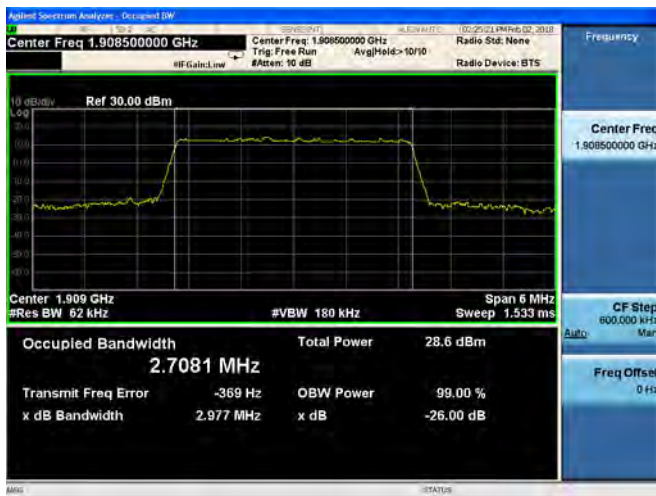
**3MHz/QPSK/Mid CH**



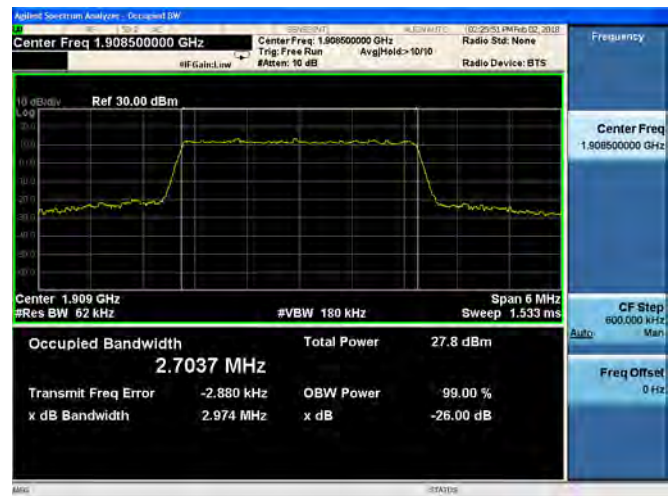
**3MHz/16QAM/Mid CH**



**3MHz/QPSK/High CH**



**3MHz/16QAM/High CH**





**5MHz/QPSK/Low CH**



**5MHz/16QAM/Low CH**



**5MHz/QPSK/Mid CH**



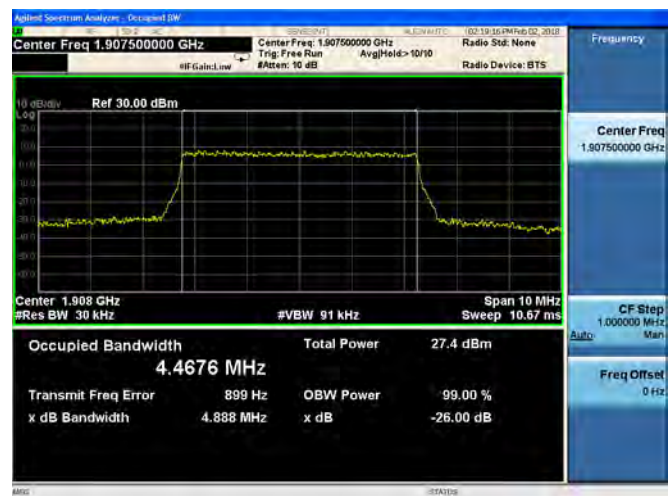
**5MHz/16QAM/Mid CH**



**5MHz/QPSK/High CH**



**5MHz/16QAM/High CH**

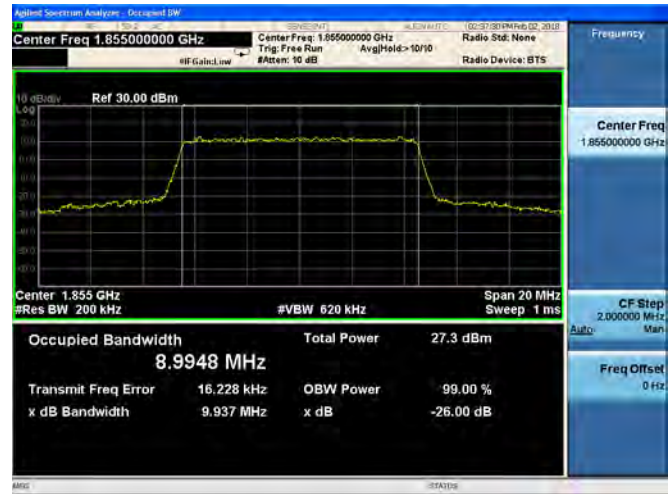




10MHz/QPSK/Low CH



10MHz/16QAM/Low CH



10MHz/QPSK/Mid CH



10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



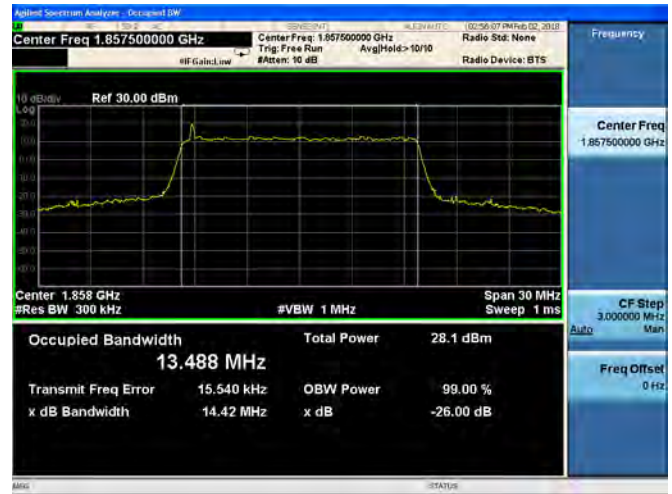
10MHz/16QAM/High CH





**15MHz/QPSK/Low CH**

**15MHz/16QAM/Low CH**



**15MHz/QPSK/Mid CH**

**15MHz/16QAM/Mid CH**



**15MHz/QPSK/High CH**

**15MHz/16QAM/High CH**

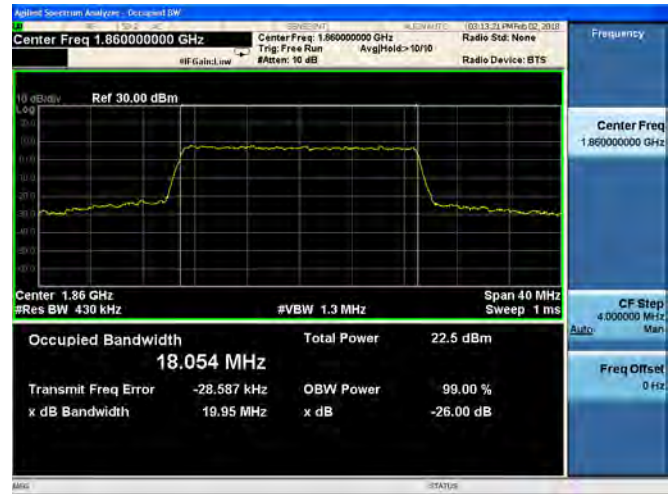




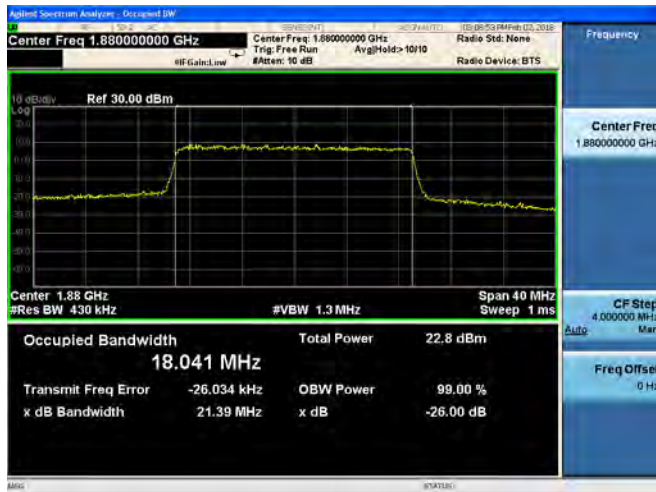
**20MHz/QPSK/Low CH**



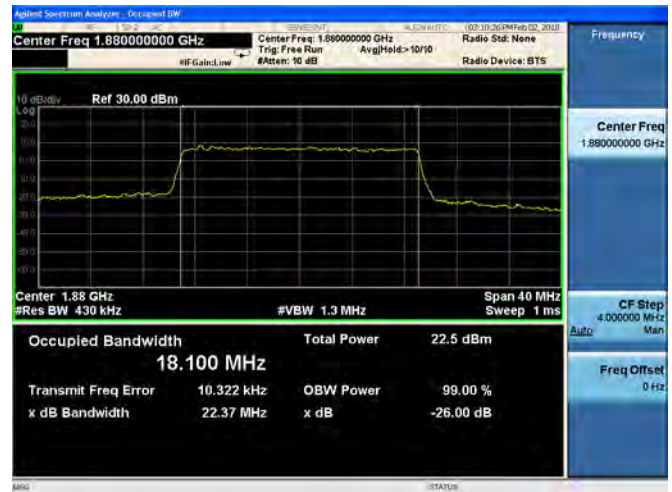
**20MHz/16QAM/Low CH**



**20MHz/QPSK/Mid CH**



**20MHz/16QAM/Mid CH**



**20MHz/QPSK/High CH**



**20MHz/16QAM/High CH**



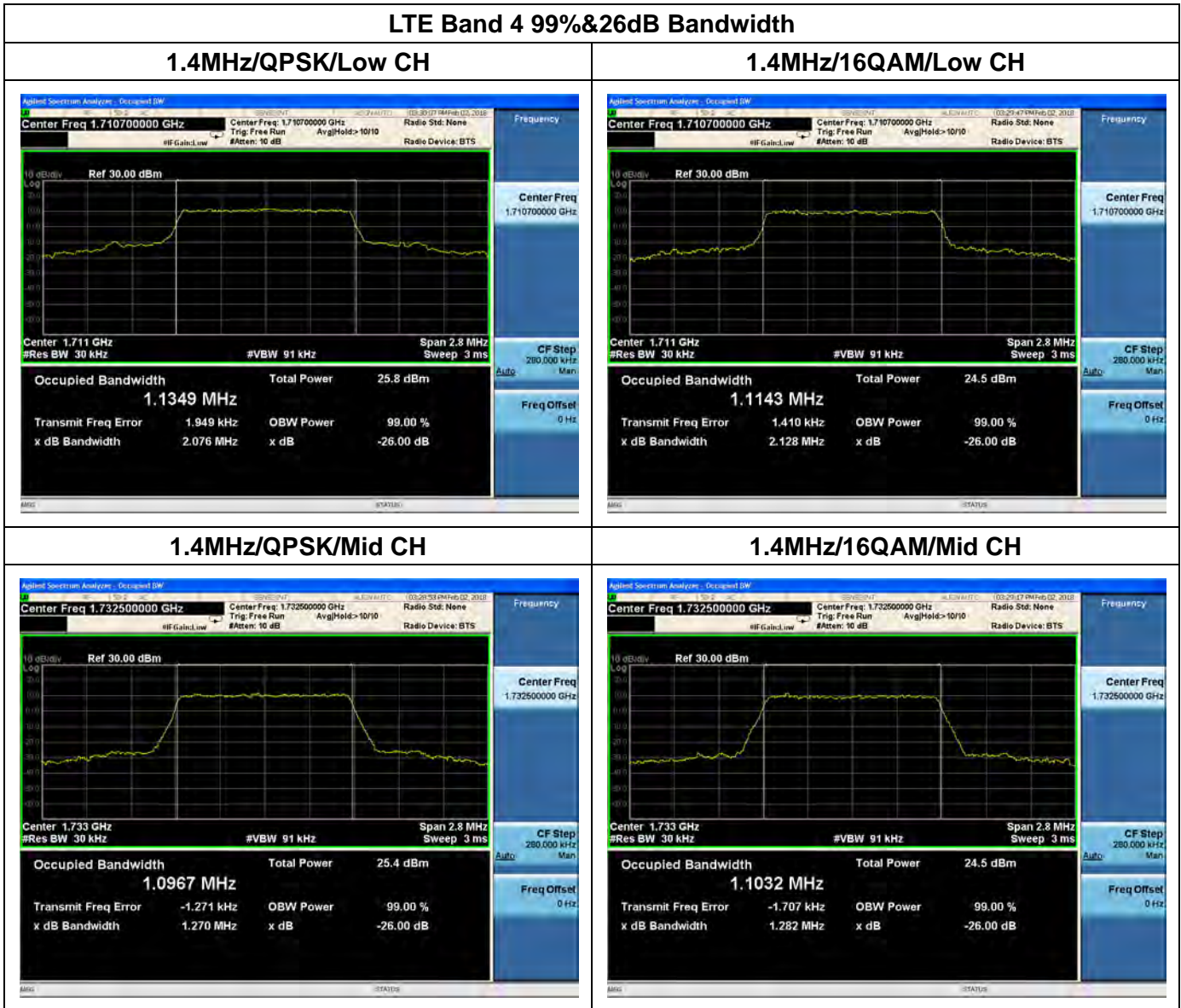


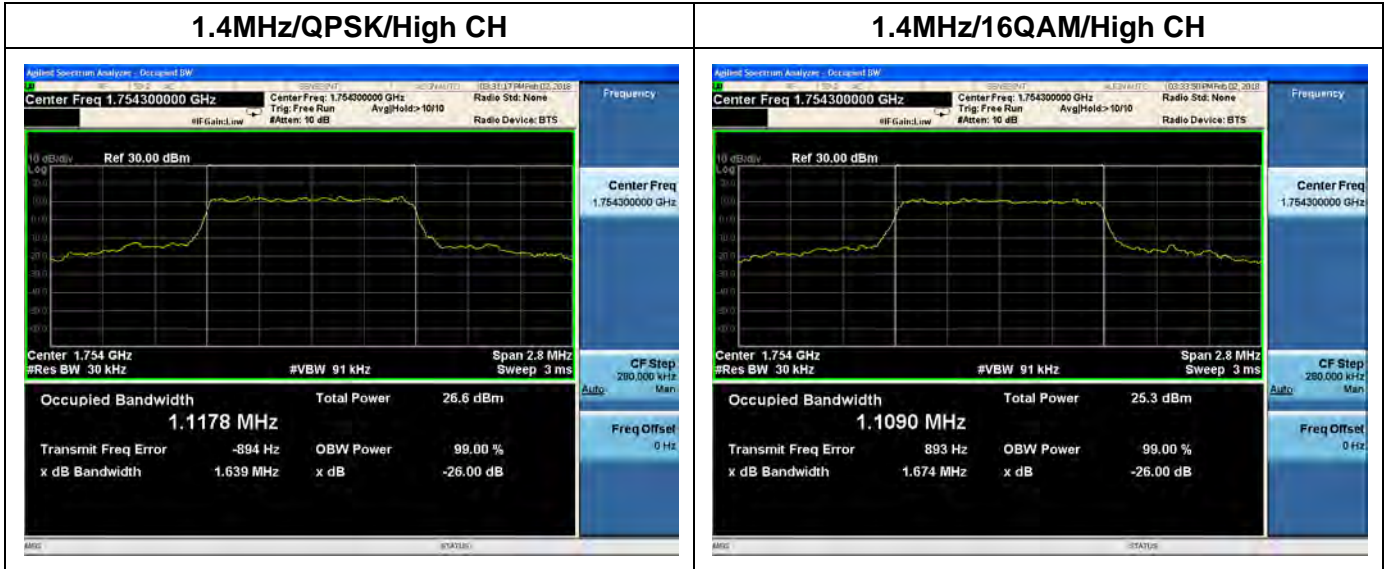
<b>LTE Band 4, BW: 1.4MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
19957	1710.7	1.1349	2.076	1.1143	2.128
20175	1732.5	1.0967	1.270	1.1032	1.282
20392	1754.2	1.1178	1.639	1.1090	1.674
<b>LTE Band 4, BW: 3MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
19965	1711.5	2.7429	4.325	2.7283	4.589
20175	1732.5	2.7103	2.989	2.7179	2.991
20384	1753.4	2.7302	4.013	2.7227	3.692
<b>LTE Band 4, BW: 5MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
19975	1712.5	4.5655	8.284	4.5727	7.004
20175	1732.5	4.5371	5.060	4.5335	5.088
20375	1752.5	4.5525	5.600	4.5767	6.295
<b>LTE Band 4, BW: 10MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
20000	1715.0	9.0436	14.70	9.0596	14.56
20175	1732.5	9.0082	10.02	9.0059	9.949
20350	1750.0	9.1072	16.82	9.0643	16.06
<b>LTE Band 4, BW: 15MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
20025	1717.5	13.550	20.86	13.619	22.56
20175	1732.5	13.539	14.89	13.518	14.88
20325	1747.5	13.600	23.52	13.586	23.68





LTE Band 4, BW: 20MHz					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
20050	1720.0	17.980	19.60	17.995	19.76
20175	1732.5	18.038	19.60	18.086	19.67
20300	1745.0	17.969	19.57	17.965	19.64



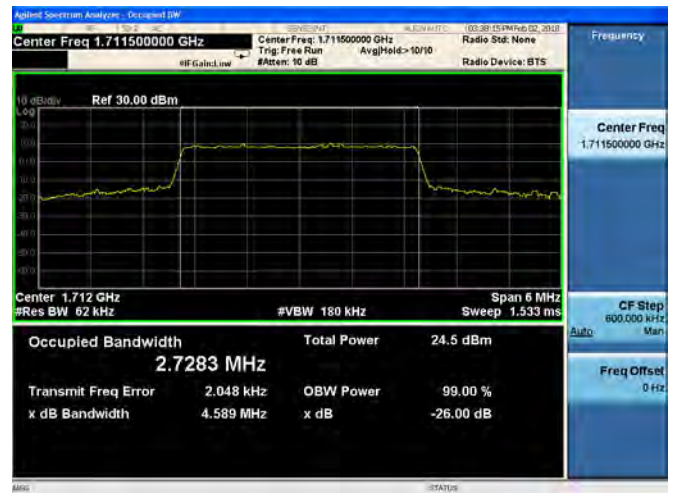




**3MHz/QPSK/Low CH**



**3MHz/16QAM/Low CH**



**3MHz/QPSK/Mid CH**



**3MHz/16QAM/Mid CH**



**3MHz/QPSK/High CH**



**3MHz/16QAM/High CH**

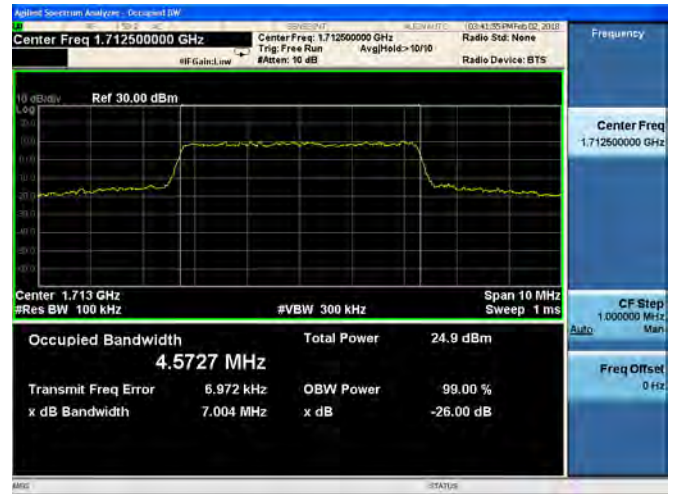




**5MHz/QPSK/Low CH**



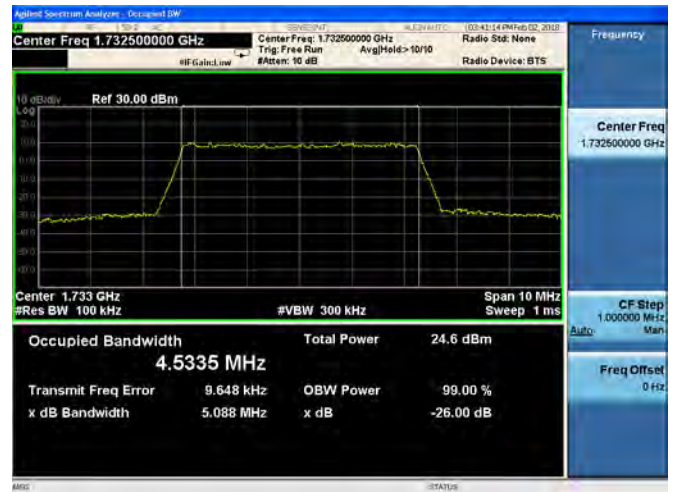
**5MHz/16QAM/Low CH**



**5MHz/QPSK/Mid CH**



**5MHz/16QAM/Mid CH**



**5MHz/QPSK/High CH**



**5MHz/16QAM/High CH**





**10MHz/QPSK/Low CH**



**10MHz/16QAM/Low CH**



**10MHz/QPSK/Mid CH**



**10MHz/16QAM/Mid CH**



**10MHz/QPSK/High CH**



**10MHz/16QAM/High CH**

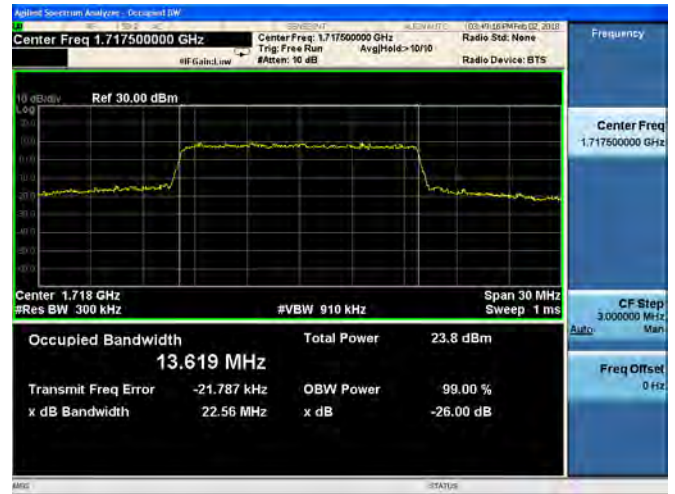




**15MHz/QPSK/Low CH**



**15MHz/16QAM/Low CH**



**15MHz/QPSK/Mid CH**



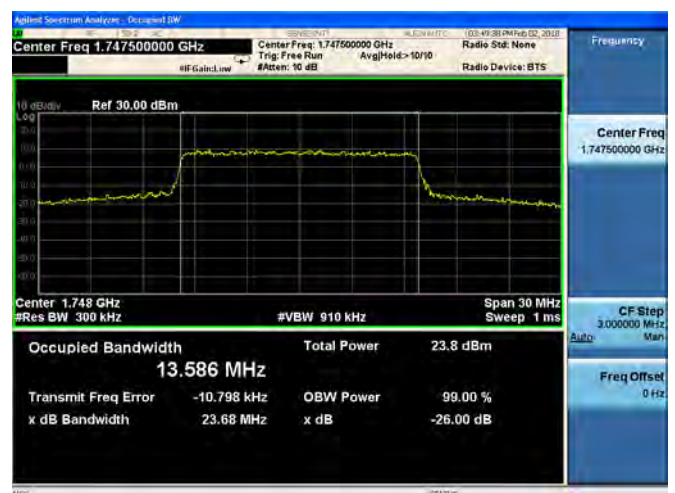
**15MHz/16QAM/Mid CH**



**15MHz/QPSK/High CH**



**15MHz/16QAM/High CH**

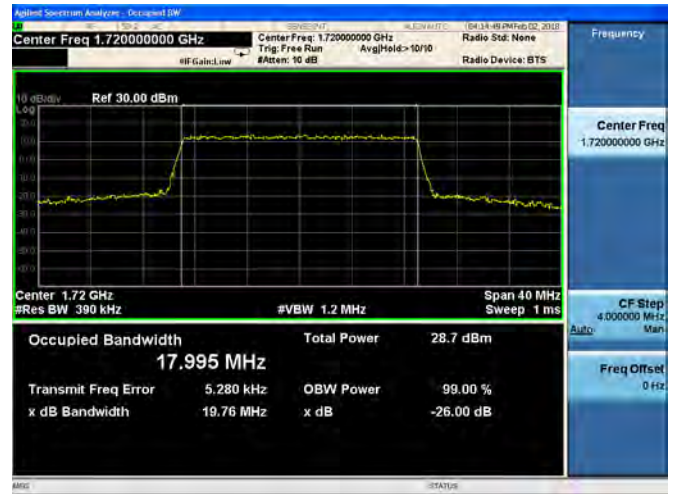




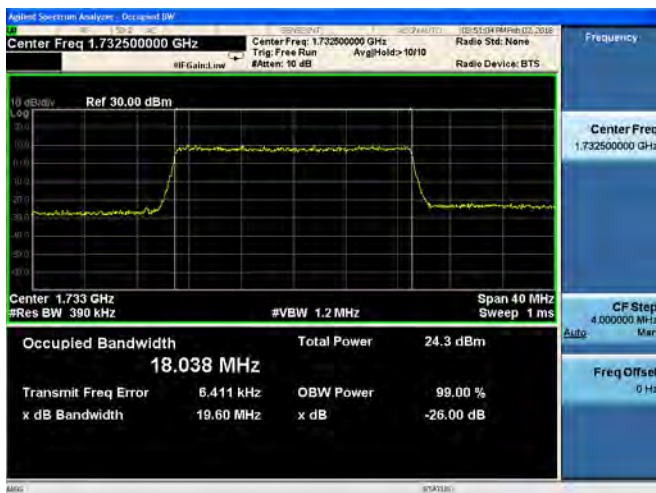
**20MHz/QPSK/Low CH**



**20MHz/16QAM/Low CH**



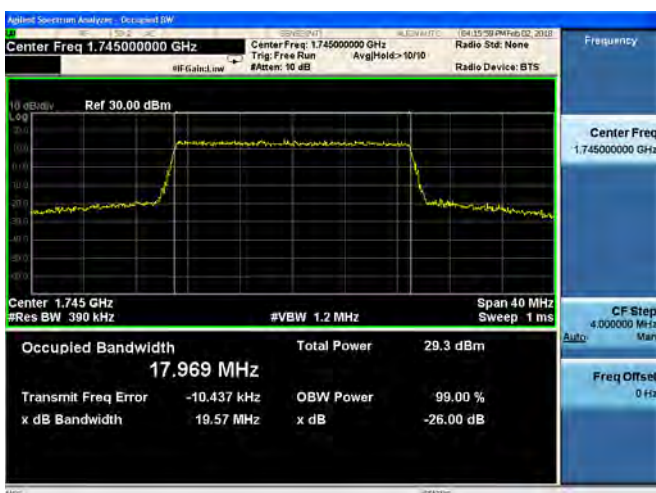
**20MHz/QPSK/Mid CH**



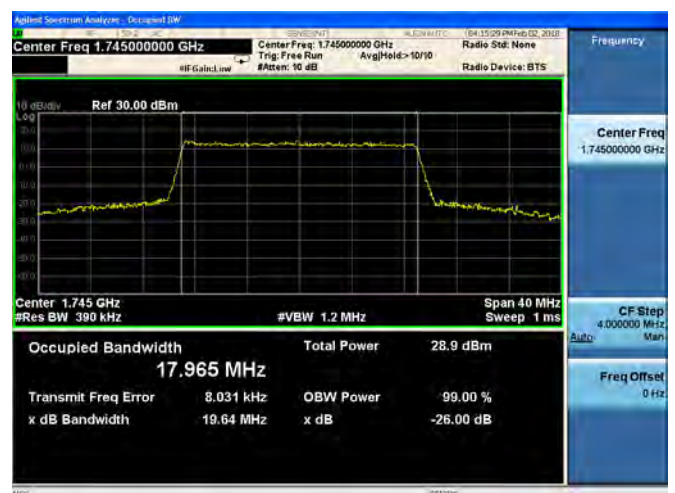
**20MHz/16QAM/Mid CH**



**20MHz/QPSK/High CH**



**20MHz/16QAM/High CH**





<b>LTE Band 7, BW: 5MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
20775	2502.5	4.5354	5.110	4.5241	5.048
21100	2535.0	4.5367	5.055	4.5311	5.094
21425	2567.5	4.5289	5.065	4.5428	5.100
<b>LTE Band 7, BW: 10MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
20800	2505.0	9.0003	9.925	9.0047	9.955
21100	2535.0	9.0129	10.06	9.0061	9.906
21400	2565.0	9.0118	9.997	9.0006	9.976
<b>LTE Band 7, BW: 15MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
20825	2507.5	13.450	14.88	13.515	14.87
21100	2535.0	13.536	14.98	13.521	14.90
21375	2562.5	13.541	15.03	13.545	14.91
<b>LTE Band 7, BW: 20MHz</b>					
Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
20850	2510.0	17.968	19.58	17.976	19.66
21100	2535.0	17.989	19.54	18.061	19.72
21350	2560.0	18.023	19.67	17.992	19.62





LTE Band 7 99%&26dB Bandwidth

5MHz/QPSK/Low CH



5MHz/16QAM/Low CH



5MHz/QPSK/Mid CH



5MHz/16QAM/Mid CH



