



TEST REPORT

MANUFACTURER : Hot Pepper, Inc.

PRODUCT NAME : 4G Smart Phone

MODEL NAME : HPP-L55

BRAND NAME : Hot Pepper

FCC ID : 2APD4-A95C

STANDARD(S) : 47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart F&H&L&M
47 CFR Part 90, Subpart S

RECEIPT DATE : 2019-10-10

TEST DATE : 2019-11-12 to 2020-1-13

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Change History		
Version	Date	Reason for change
1.0	2020-1-14	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Hot Pepper, Inc.
Applicant Address:	5151 California Ave., Suite 100, Irvine 92617, USA
Manufacturer:	Hot Pepper, Inc.
Manufacturer Address:	5151 California Ave., Suite 100, Irvine 92617, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	4G Smart Phone	
Serial No:	(N/A, marked #1 by test site)	
Hardware Version:	A95C_MAINBOARD_P3	
Software Version:	HPP-L55-C1.0.0	
Modulation Type:	QPSK 16QAM 64QAM	
Operation Band:	Band 2 /4 /5 /12 /13 /25 /26 /41 /66 /71	
Frequency Range:	LTE Band 2	Tx: 1850.7MHz - 1909.3MHz
		Rx: 1930.7MHz - 1989.3MHz
	LTE Band 4	Tx: 1710.7MHz - 1754.3MHz
		Rx: 2110.7MHz - 2154.3MHz
	LTE Band 5	Tx: 824.7MHz - 848.3MHz
		Rx: 869.7MHz - 893.3MHz
	LTE Band 12	Tx: 699.7MHz - 715.3MHz
		Rx: 729.7MHz - 745.3MHz
	LTE Band 13	Tx: 779.5MHz - 784.5MHz
		Rx: 748.5MHz - 753.5MHz
	LTE Band 25	Tx:1850.7MHz - 1914.3MHz
		Rx:1930.7MHz - 1994.3MHz
	LTE Band 26	Tx:814.7MHz-848.3MHz



		Rx:859.7MHz-893.3MHz
	LTE Band 41	Tx:2498.5MHz - 2687.5MHz
		Rx:2498.5MHz - 2687.5MHz
	LTE Band 66	Tx: 1710.7MHz - 1779.3MHz
		Rx: 2110.7MHz - 2199.3MHz
	LTE Band 71	Tx: 665.5MHz - 695.5MHz
		Rx: 619.5MHz - 645.5MHz
Antenna Type:	Fixed Internal	
Antenna Gain:	LTE Band2:1.2dBi; LTE Band4:1.0dBi LTE Band5:-1.8dBi LTE Band12:-2.6dBi LTE Band13:-1.5dBi LTE Band25:1.2dBi LTE Band26:-1.8dBi LTE Band41:2.1dBi LTE Band66:1.0dBi LTE Band71:2.1dBi	
Accessory Information::	Battery	
	Manufacturer:	Shenzhen HUATIAN TONG TECHNOLOGY CO.LTD
	Brand Name:	Hot Pepper
	Model No.:	H2019A95C
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	2200mAh
	Rated Voltage:	3.80V
	Charge Limit:	4.35V
Accessory Information:	AC Adapter	
	Manufacturer:	Shenzhen Tianyin Electronics Co.,Ltd.
	Brand Name:	Hot Pepper
	Model No.:	TPA-46B050100UU
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V ~ 50/60Hz 0.2A
	Rated Output:	5V=1.0A

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 Channel

Band	Bandwidth (MHz)	Low Channel		Middle Channel		High Channel	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2	1.4	18607	1850.7	18900	1880	19193	1909.3
	3	18615	1851.5	18900	1880	19185	1908.5
	5	18625	1852.5	18900	1880	19175	1907.5
	10	18650	1855	18900	1880	19150	1905
	15	18675	1857.5	18900	1880	19125	1902.5
	20	18700	1860	18900	1880	19100	1900
4	1.4	19957	1710.7	20175	1732.5	20393	1754.3
	3	19965	1711.5	20175	1732.5	20385	1753.5
	5	19975	1712.5	20175	1732.5	20375	1752.5
	10	20000	1715	20175	1732.5	20350	1750
	15	20025	1717.5	20175	1732.5	20325	1747.5
	20	20050	1720	20175	1732.5	20300	1745
5	1.4	20407	824.7	20525	836.5	20643	848.3
	3	20415	825.5	20525	836.5	20635	847.5
	5	20425	826.5	20525	836.5	20625	846.5
	10	20450	829	20525	836.5	20600	844
12	1.4	23017	699.7	23095	707.5	23173	715.3
	3	23025	700.5	23095	707.5	23165	714.5
	5	23035	701.5	23095	707.5	23155	713.5
	10	23060	704	23095	707.5	23130	711
13	5	23205	779.5	23230	782	23255	784.5
	10	/	/	23230	782	/	/
25	1.4	26047	1850.7	26365	1882.5	26683	1914.3
	3	26055	1851.5	26365	1882.5	26675	1913.5
	5	26065	1852.5	26365	1882.5	26665	1912.5
	10	26090	1855	26365	1882.5	26640	1910
	15	26115	1857.5	26365	1882.5	26615	1907.5



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	20	26140	1860	26365	1882.5	26590	1905
26	1.4	26697	814.7	26865	836.5	27033	848.3
	3	26705	815.5	26865	836.5	27025	847.5
	5	26715	816.5	26865	836.5	27015	846.5
	10	26740	819	26865	836.5	26990	844
	15	26765	821.5	26865	836.5	26965	841.5
41	5	39675	2498.5	40620	2593	41565	2687.5
	10	39700	2501	40620	2593	41540	2685
	15	39725	2503.5	40620	2593	41515	2682.5
	20	39750	2506	40620	2593	41490	2680
66	1.4	131979	1710.7	132322	1745	132665	1779.3
	3	131987	1711.5	132322	1745	132657	1778.5
	5	131997	1712.5	132322	1745	132647	1777.5
	10	132022	1715	132322	1745	132622	1775
	15	132047	1717.5	132322	1745	132597	1772.5
	20	132072	1720	132322	1745	132572	1770
71	5	133147	665.5	133297	680.5	133447	695.5
	10	133172	668	133297	680.5	133422	693
	15	133197	670.5	133297	680.5	133397	690.5
	20	133222	673	133297	680.5	133372	688



1.4. Emission Designator

LTE B2	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M09W7D	1M09W7D
3	2M69G7D	2M69W7D	2M69W7D
5	4M54G7D	4M52W7D	4M53W7D
10	9M00G7D	9M00W7D	8M99W7D
15	13M5G7D	13M4W7D	13M4W7D
20	17M9G7D	18M0W7D	18M0W7D
LTE B4	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M09W7D	1M09W7D
3	2M70G7D	2M69W7D	2M69W7D
5	4M53G7D	4M53W7D	4M53W7D
10	9M01G7D	9M03W7D	9M02W7D
15	13M5G7D	13M5W7D	13M5W7D
20	18M0G7D	18M0W7D	18M0W7D
LTE B5	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M09W7D	1M09W7D
3	2M70G7D	2M69W7D	2M69W7D
5	4M53G7D	4M56W7D	4M56W7D
10	9M04G7D	9M04W7D	9M07W7D
LTE B12	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M10W7D	1M10W7D
3	2M70G7D	2M69W7D	2M69W7D
5	4M55G7D	4M56W7D	4M55W7D
10	9M02G7D	9M02W7D	9M03W7D
LTE B13	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M52G7D	4M54W7D	4M54W7D
10	8M99G7D	9M00W7D	9M01W7D
LTE B25	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M09W7D	1M09W7D
3	2M69G7D	2M69W7D	2M69W7D



5	4M52G7D	4M54W7D	4M53W7D
10	9M01G7D	9M00W7D	9M01W7D
15	13M4G7D	13M5W7D	13M4W7D
20	17M9G7D	18M0W7D	17M9W7D
LTE B26	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M09W7D	1M09W7D
3	2M69G7D	2M69W7D	2M69W7D
5	4M50G7D	4M49W7D	4M50W7D
10	9M00G7D	9M00W7D	8M98W7D
15	13M4G7D	13M4W7D	13M4W7D
LTE B41	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M50G7D	4M49W7D	4M50W7D
10	8M99G7D	9M00W7D	9M03W7D
15	13M5G7D	13M5W7D	13M5W7D
20	17M9G7D	18M0W7D	18M0W7D
LTE B66	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M09W7D	1M09W7D
3	2M69G7D	2M69W7D	2M69W7D
5	4M52G7D	4M53W7D	4M53W7D
10	9M00G7D	9M01W7D	9M00W7D
15	13M5G7D	13M5W7D	13M5W7D
20	17M9G7D	17M9W7D	18M0W7D
LTE B71	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M52G7D	4M51W7D	4M51W7D
10	8M99G7D	9M01W7D	9M00W7D
15	13M5G7D	13M4W7D	13M5W7D
20	17M9G7D	17M9W7D	17M9W7D



1.5. Test Standards and Results

The objective of the report is to perform testing according to Part 2 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 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 90	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	Nov 11, 2019	Lai Huihuang	PASS
2.1049,90.209	Occupied Bandwidth	Nov 11, 2019 Nov 12, 2019	Lai Huihuang	PASS
2.1055, 22.355, 24.235, 27.54,90.213	Frequency Stability	Nov 11, 2019 Nov 12, 2019	Lai Huihuang	PASS
22.913(d),24.232(d), 27.50(d)(5)	Peak to Average Radio	Nov 11, 2019 Nov 12, 2019	Lai Huihuang	PASS
2.1051, 22.917(a), 24.238, 27.53(c), 27.53(g), 27.53 (h) 27.53(m),90.691	Conducted Spurious Emissions	Nov 11, 2019 Jan 13, 2020	Lai Huihuang	PASS
2.1051, 22.917(a), 24.238, 27.53(c), 27.53(g), 27.53 (h) 27.53(m),90.691	Band Edge	Nov 11, 2019 Jan 14 2020	Lai Huihuang	PASS
22.913(a)(2), 24.232(c), 27.50(a)(3),27.50(b)(10),27. 50(c)(10),27.50(d)(4), 27.50(h)(2), 90.635(b)	Transmitter Radiated Power (EIPR/ERP)	Nov 28, 2019 Nov 30, 2019	Yaming Luo	PASS
2.1051, 22.917(a), 24.238, 27.53(c), 27.53(g), 27.53 (h) 27.53(m).90.691	Radiated Spurious Emissions	Nov 28, 2019 Nov 30, 2019	Yaming Luo	PASS



Note: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03r01 and ANSI/TIA-603-E-2016.

1.6. 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

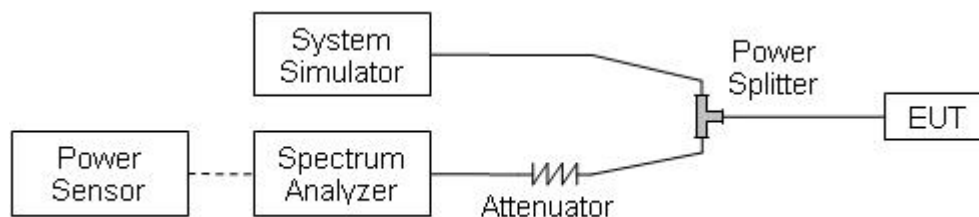
2. 47 CFR Part 2, Part 22H, Part 24E, Part 90S and 27 F&H&L&M Requirements

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 D01 v03r01 Section 5.2 and ANSI/TIA-603-E-2016.



2.1.4. Result

<FDD LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.56	22.35	22.47
20	QPSK	1	49	22.87	22.78	22.85
20	QPSK	1	99	22.27	22.41	22.50
20	QPSK	50	0	21.83	21.74	21.67
20	QPSK	50	24	21.40	21.50	21.46
20	QPSK	50	50	21.56	21.74	21.72
20	QPSK	100	0	21.61	21.74	21.78
20	16QAM	1	0	21.38	21.17	21.74
20	16QAM	1	49	21.59	21.67	22.11
20	16QAM	1	99	21.14	21.26	21.76
20	16QAM	50	0	20.55	20.74	20.83
20	16QAM	50	24	20.43	20.57	20.54
20	16QAM	50	50	20.53	20.70	20.75
20	16QAM	100	0	20.60	20.73	20.77
20	64QAM	1	0	21.41	21.21	21.74
20	64QAM	1	49	21.66	21.62	22.19
20	64QAM	1	99	21.16	21.23	21.77
20	64QAM	50	0	20.56	20.75	20.83
20	64QAM	50	24	20.46	20.65	20.73
20	64QAM	50	50	20.51	20.73	20.77
20	64QAM	100	0	20.62	20.75	20.78
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.63	22.74	22.64
15	QPSK	1	37	22.61	22.80	22.73
15	QPSK	1	74	22.45	22.68	22.69
15	QPSK	36	0	21.79	21.83	21.85
15	QPSK	36	20	21.69	21.73	21.75
15	QPSK	36	39	21.67	21.82	21.89
15	QPSK	75	0	21.68	21.84	21.84



15	16QAM	1	0	21.84	21.62	21.97
15	16QAM	1	37	21.77	21.78	22.08
15	16QAM	1	74	21.67	21.68	22.03
15	16QAM	36	0	20.70	20.76	20.83
15	16QAM	36	20	20.60	20.66	20.73
15	16QAM	36	39	20.55	20.73	20.87
15	16QAM	75	0	20.63	20.80	20.85
15	64QAM	1	0	21.85	21.62	21.99
15	64QAM	1	37	21.76	21.81	22.11
15	64QAM	1	74	21.69	21.69	22.03
15	64QAM	36	0	20.69	20.75	20.82
15	64QAM	36	20	20.59	20.65	20.72
15	64QAM	36	39	20.60	20.71	20.84
15	64QAM	75	0	20.64	20.80	20.85
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.72	22.95	22.69
10	QPSK	1	25	22.78	22.93	22.76
10	QPSK	1	49	22.49	22.75	22.74
10	QPSK	25	0	21.70	21.83	21.88
10	QPSK	25	12	21.60	21.73	21.78
10	QPSK	25	25	21.62	21.75	21.85
10	QPSK	50	0	21.64	21.77	21.83
10	16QAM	1	0	21.88	21.58	22.04
10	16QAM	1	25	21.94	21.72	22.12
10	16QAM	1	49	21.72	21.62	22.10
10	16QAM	25	0	20.69	20.74	20.93
10	16QAM	25	12	20.59	20.64	20.83
10	16QAM	25	25	20.55	20.72	20.89
10	16QAM	50	0	20.63	20.72	20.79
10	64QAM	1	0	21.89	21.57	22.03
10	64QAM	1	25	21.94	21.70	22.19
10	64QAM	1	49	21.71	21.59	22.09
10	64QAM	25	0	20.57	20.77	20.91
10	64QAM	25	12	20.47	20.67	20.81
10	64QAM	25	25	20.67	20.70	20.89
10	64QAM	50	0	20.74	20.74	20.82
Channel				18625	18900	19175



Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.62	22.72	22.64
5	QPSK	1	12	22.72	22.64	22.79
5	QPSK	1	24	22.55	22.54	22.68
5	QPSK	12	0	21.70	21.72	21.87
5	QPSK	12	7	21.60	21.62	21.77
5	QPSK	12	13	21.73	21.72	21.83
5	QPSK	25	0	21.68	21.73	21.86
5	16QAM	1	0	21.78	21.81	21.98
5	16QAM	1	12	21.86	21.95	22.17
5	16QAM	1	24	21.70	21.85	22.02
5	16QAM	12	0	20.56	20.69	20.76
5	16QAM	12	7	20.46	20.59	20.66
5	16QAM	12	13	20.55	20.69	20.72
5	16QAM	25	0	20.61	20.71	20.87
5	64QAM	1	0	21.80	21.83	21.99
5	64QAM	1	12	21.88	21.97	22.18
5	64QAM	1	24	21.71	21.84	22.05
5	64QAM	12	0	20.56	20.72	20.78
5	64QAM	12	7	20.46	20.62	20.68
5	64QAM	12	13	20.60	20.68	20.76
5	64QAM	25	0	20.60	20.72	20.85
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.72	22.72	22.74
3	QPSK	1	8	22.67	22.75	22.75
3	QPSK	1	14	22.68	22.76	22.78
3	QPSK	8	0	21.78	21.78	21.89
3	QPSK	8	4	21.68	21.68	21.79
3	QPSK	8	7	21.80	21.75	21.86
3	QPSK	15	0	21.67	21.69	21.83
3	16QAM	1	0	21.92	21.62	22.09
3	16QAM	1	8	21.89	21.64	22.14
3	16QAM	1	14	21.81	21.64	22.09
3	16QAM	8	0	20.70	20.72	20.85
3	16QAM	8	4	20.60	20.62	20.75
3	16QAM	8	7	20.65	20.71	20.89
3	16QAM	15	0	20.53	20.69	20.79



3	64QAM	1	0	21.91	21.61	22.09
3	64QAM	1	8	21.87	21.64	22.11
3	64QAM	1	14	21.80	21.64	22.13
3	64QAM	8	0	20.69	20.69	20.88
3	64QAM	8	4	20.59	20.59	20.78
3	64QAM	8	7	20.66	20.70	20.87
3	64QAM	15	0	20.55	20.69	20.80
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	23.31	23.01	22.83
1.4	QPSK	1	3	23.32	22.85	23.01
1.4	QPSK	1	5	22.90	22.60	22.82
1.4	QPSK	3	0	22.67	22.66	22.87
1.4	QPSK	3	1	22.57	22.56	22.77
1.4	QPSK	3	3	22.70	22.64	22.83
1.4	QPSK	6	0	21.87	21.80	21.94
1.4	16QAM	1	0	21.71	21.84	21.78
1.4	16QAM	1	3	21.89	22.18	21.93
1.4	16QAM	1	5	21.71	21.87	21.78
1.4	16QAM	3	0	21.84	21.69	21.85
1.4	16QAM	3	1	21.74	21.59	21.75
1.4	16QAM	3	3	21.86	21.70	21.86
1.4	16QAM	6	0	20.78	20.69	20.89
1.4	64QAM	1	0	21.71	21.82	21.75
1.4	64QAM	1	3	21.99	22.04	21.93
1.4	64QAM	1	5	21.70	21.87	21.77
1.4	64QAM	3	0	21.85	21.71	21.84
1.4	64QAM	3	1	21.75	21.61	21.74
1.4	64QAM	3	3	21.87	21.72	21.85
1.4	64QAM	6	0	20.78	20.69	20.86

<FDD LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	22.77	22.54	22.56
20	QPSK	1	49	22.80	22.98	22.96



20	QPSK	1	99	22.54	22.54	22.47
20	QPSK	50	0	21.93	21.80	21.99
20	QPSK	50	24	21.84	21.96	21.97
20	QPSK	50	50	21.95	21.86	21.79
20	QPSK	100	0	21.95	21.80	21.82
20	16QAM	1	0	21.63	21.37	21.77
20	16QAM	1	49	21.97	21.73	22.19
20	16QAM	1	99	21.42	21.32	21.69
20	16QAM	50	0	20.90	20.86	20.92
20	16QAM	50	24	20.89	20.88	20.91
20	16QAM	50	50	20.97	20.87	20.76
20	16QAM	100	0	20.94	20.80	20.83
20	64QAM	1	0	21.62	21.35	21.79
20	64QAM	1	49	21.91	21.80	22.17
20	64QAM	1	99	21.46	21.33	21.72
20	64QAM	50	0	20.86	20.82	20.90
20	64QAM	50	24	20.86	20.76	20.88
20	64QAM	50	50	20.96	20.85	20.77
20	64QAM	100	0	20.97	20.79	20.81
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.87	22.77	22.74
15	QPSK	1	37	22.89	22.90	22.80
15	QPSK	1	74	22.68	22.81	22.67
15	QPSK	36	0	22.05	21.90	22.06
15	QPSK	36	20	22.03	21.90	22.06
15	QPSK	36	39	22.00	21.96	21.89
15	QPSK	75	0	22.04	21.95	21.98
15	16QAM	1	0	22.06	21.80	22.01
15	16QAM	1	37	22.12	21.93	22.06
15	16QAM	1	74	21.94	21.81	21.96
15	16QAM	36	0	21.02	20.83	20.97
15	16QAM	36	20	20.92	20.73	20.87
15	16QAM	36	39	20.94	20.89	20.83
15	16QAM	75	0	20.99	20.88	20.94
15	64QAM	1	0	22.09	21.79	21.99
15	64QAM	1	37	22.12	21.91	22.07
15	64QAM	1	74	21.94	21.80	21.96



15	64QAM	36	0	21.02	20.82	20.99
15	64QAM	36	20	20.92	20.72	20.89
15	64QAM	36	39	20.94	20.90	20.82
15	64QAM	75	0	21.01	20.89	20.92
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	23.00	22.71	22.82
10	QPSK	1	25	23.06	22.87	22.89
10	QPSK	1	49	22.86	22.77	22.72
10	QPSK	25	0	22.02	21.85	21.96
10	QPSK	25	12	21.92	21.75	21.86
10	QPSK	25	25	22.03	21.93	21.86
10	QPSK	50	0	22.05	21.89	21.90
10	16QAM	1	0	21.86	22.07	22.00
10	16QAM	1	25	21.96	22.20	22.09
10	16QAM	1	49	21.75	22.07	21.95
10	16QAM	25	0	21.00	20.92	20.94
10	16QAM	25	12	20.90	20.82	20.84
10	16QAM	25	25	21.05	20.96	20.82
10	16QAM	50	0	21.01	20.87	20.81
10	64QAM	1	0	21.86	22.04	21.97
10	64QAM	1	25	21.98	22.18	22.05
10	64QAM	1	49	21.75	22.03	21.94
10	64QAM	25	0	21.02	20.91	20.94
10	64QAM	25	12	20.92	20.81	20.84
10	64QAM	25	25	21.03	21.02	20.82
10	64QAM	50	0	21.04	20.85	20.84
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.75	22.65	22.72
5	QPSK	1	12	22.84	22.80	22.83
5	QPSK	1	24	22.68	22.66	22.67
5	QPSK	12	0	21.95	21.79	21.86
5	QPSK	12	7	21.85	21.69	21.76
5	QPSK	12	13	21.92	21.90	21.82
5	QPSK	25	0	21.95	21.82	21.85
5	16QAM	1	0	22.09	21.96	21.90
5	16QAM	1	12	22.20	22.13	22.02



5	16QAM	1	24	22.04	22.01	21.92
5	16QAM	12	0	20.95	20.76	20.74
5	16QAM	12	7	20.85	20.66	20.64
5	16QAM	12	13	20.90	20.70	20.69
5	16QAM	25	0	20.90	20.78	20.78
5	64QAM	1	0	22.08	21.97	21.88
5	64QAM	1	12	22.21	22.13	21.99
5	64QAM	1	24	22.06	21.97	21.90
5	64QAM	12	0	20.93	20.75	20.75
5	64QAM	12	7	20.83	20.65	20.65
5	64QAM	12	13	20.92	20.75	20.71
5	64QAM	25	0	20.94	20.82	20.78
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.97	22.76	22.74
3	QPSK	1	8	22.97	22.74	22.74
3	QPSK	1	14	22.96	22.73	22.75
3	QPSK	8	0	21.99	21.83	21.86
3	QPSK	8	4	21.89	21.73	21.76
3	QPSK	8	7	21.97	21.86	21.85
3	QPSK	15	0	21.96	21.82	21.79
3	16QAM	1	0	21.85	22.07	21.97
3	16QAM	1	8	21.86	22.09	21.93
3	16QAM	1	14	21.85	22.07	21.94
3	16QAM	8	0	20.93	20.82	20.80
3	16QAM	8	4	20.83	20.72	20.70
3	16QAM	8	7	20.93	20.82	20.79
3	16QAM	15	0	20.91	20.78	20.67
3	64QAM	1	0	21.86	22.07	21.98
3	64QAM	1	8	21.87	22.06	21.96
3	64QAM	1	14	21.88	22.04	21.95
3	64QAM	8	0	20.96	20.84	20.82
3	64QAM	8	4	20.86	20.74	20.72
3	64QAM	8	7	20.93	20.83	20.76
3	64QAM	15	0	20.92	20.76	20.68
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.98	22.81	22.85



1.4	QPSK	1	3	23.16	22.88	23.03
1.4	QPSK	1	5	22.97	22.84	22.83
1.4	QPSK	3	0	22.92	22.83	22.80
1.4	QPSK	3	1	22.82	22.73	22.70
1.4	QPSK	3	3	22.95	22.81	22.81
1.4	QPSK	6	0	22.03	21.87	21.92
1.4	16QAM	1	0	21.93	21.72	21.79
1.4	16QAM	1	3	22.16	21.90	22.04
1.4	16QAM	1	5	21.95	21.71	21.82
1.4	16QAM	3	0	22.09	21.84	21.93
1.4	16QAM	3	1	21.99	21.74	21.83
1.4	16QAM	3	3	22.11	21.81	21.97
1.4	16QAM	6	0	21.00	20.82	20.86
1.4	64QAM	1	0	21.94	21.67	21.77
1.4	64QAM	1	3	22.19	21.98	22.07
1.4	64QAM	1	5	21.95	21.74	21.83
1.4	64QAM	3	0	22.08	21.82	21.93
1.4	64QAM	3	1	21.98	21.72	21.83
1.4	64QAM	3	3	22.11	21.78	21.97
1.4	64QAM	6	0	21.00	20.83	20.88

<FDD LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.00	23.06	23.04
10	QPSK	1	25	23.12	23.20	23.17
10	QPSK	1	49	22.97	22.98	22.99
10	QPSK	25	0	21.99	22.07	22.08
10	QPSK	25	12	21.96	21.97	21.94
10	QPSK	25	25	22.06	22.00	21.99
10	QPSK	50	0	22.02	22.00	22.04
10	16QAM	1	0	22.20	22.11	21.93
10	16QAM	1	25	22.38	22.21	22.00
10	16QAM	1	49	22.21	22.14	21.83
10	16QAM	25	0	21.07	21.08	21.11
10	16QAM	25	12	21.01	21.05	21.08



10	16QAM	25	25	21.12	21.01	20.95
10	16QAM	50	0	20.99	21.00	21.02
10	64QAM	1	0	22.27	22.14	21.92
10	64QAM	1	25	22.36	22.29	21.96
10	64QAM	1	49	22.18	22.17	21.81
10	64QAM	25	0	21.10	21.07	21.04
10	64QAM	25	12	21.09	21.08	21.00
10	64QAM	25	25	21.11	21.02	20.96
10	64QAM	50	0	21.01	20.97	20.99
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.92	22.91	22.85
5	QPSK	1	12	23.00	23.02	22.99
5	QPSK	1	24	22.92	22.91	22.83
5	QPSK	12	0	22.01	21.98	22.00
5	QPSK	12	7	22.00	21.95	21.96
5	QPSK	12	13	22.02	21.92	21.91
5	QPSK	25	0	21.97	21.94	21.97
5	16QAM	1	0	22.18	22.01	22.17
5	16QAM	1	12	22.25	22.15	22.23
5	16QAM	1	24	22.16	22.04	22.13
5	16QAM	12	0	20.90	20.92	20.99
5	16QAM	12	7	20.89	20.90	20.95
5	16QAM	12	13	20.91	20.88	20.93
5	16QAM	25	0	21.03	20.93	20.95
5	64QAM	1	0	22.16	22.03	22.13
5	64QAM	1	12	22.24	22.12	22.23
5	64QAM	1	24	22.17	22.06	22.13
5	64QAM	12	0	20.89	20.93	21.02
5	64QAM	12	7	20.87	20.89	20.87
5	64QAM	12	13	20.90	20.85	20.93
5	64QAM	25	0	21.02	20.93	20.98
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.01	22.98	23.04
3	QPSK	1	8	23.01	22.89	23.06
3	QPSK	1	14	22.95	22.96	23.04
3	QPSK	8	0	22.01	21.98	22.06



3	QPSK	8	4	22.00	21.95	22.00
3	QPSK	8	7	22.02	21.98	22.01
3	QPSK	15	0	21.97	21.93	21.99
3	16QAM	1	0	22.24	22.12	21.86
3	16QAM	1	8	22.26	22.09	21.87
3	16QAM	1	14	22.22	22.09	21.82
3	16QAM	8	0	20.98	20.92	21.02
3	16QAM	8	4	21.00	20.95	21.00
3	16QAM	8	7	20.98	20.93	20.97
3	16QAM	15	0	20.96	20.81	20.93
3	64QAM	1	0	22.26	22.14	21.85
3	64QAM	1	8	22.23	22.09	21.88
3	64QAM	1	14	22.22	22.10	21.82
3	64QAM	8	0	21.00	20.93	21.01
3	64QAM	8	4	21.06	20.94	21.00
3	64QAM	8	7	21.00	20.92	20.94
3	64QAM	15	0	20.95	20.80	20.95
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.06	22.92	23.00
1.4	QPSK	1	3	23.15	23.16	23.16
1.4	QPSK	1	5	23.09	22.88	22.95
1.4	QPSK	3	0	23.06	22.93	22.98
1.4	QPSK	3	1	23.04	22.92	22.91
1.4	QPSK	3	3	23.08	22.98	22.92
1.4	QPSK	6	0	22.01	22.01	22.05
1.4	16QAM	1	0	21.97	22.04	21.83
1.4	16QAM	1	3	22.27	22.28	22.00
1.4	16QAM	1	5	21.99	22.06	21.82
1.4	16QAM	3	0	22.15	21.95	21.94
1.4	16QAM	3	1	22.14	21.89	21.90
1.4	16QAM	3	3	22.19	21.94	21.93
1.4	16QAM	6	0	21.00	20.94	20.98
1.4	64QAM	1	0	21.95	22.05	21.84
1.4	64QAM	1	3	22.09	22.25	21.99
1.4	64QAM	1	5	21.97	22.05	21.83
1.4	64QAM	3	0	22.16	21.94	21.93
1.4	64QAM	3	1	22.15	21.93	21.95



1.4	64QAM	3	3	22.20	21.98	21.97
1.4	64QAM	6	0	21.09	20.94	20.94

<FDD LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	22.39	22.08	22.16
10	QPSK	1	25	22.46	22.07	21.83
10	QPSK	1	49	22.23	21.92	21.98
10	QPSK	25	0	21.33	20.92	21.36
10	QPSK	25	12	21.25	21.16	21.30
10	QPSK	25	25	21.21	20.95	21.21
10	QPSK	50	0	21.43	20.94	21.20
10	16QAM	1	0	21.26	20.88	21.12
10	16QAM	1	25	21.51	20.98	21.24
10	16QAM	1	49	21.36	20.90	21.11
10	16QAM	25	0	20.31	20.10	20.22
10	16QAM	25	12	20.15	20.24	20.25
10	16QAM	25	25	20.50	20.04	20.15
10	16QAM	50	0	21.02	20.08	20.21
10	64QAM	1	0	21.35	20.75	21.22
10	64QAM	1	25	21.54	20.85	21.18
10	64QAM	1	49	21.37	20.76	21.01
10	64QAM	25	0	20.29	19.97	20.03
10	64QAM	25	12	20.30	20.08	20.00
10	64QAM	25	25	20.42	20.10	20.06
10	64QAM	50	0	20.34	19.85	20.03
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	22.17	21.79	22.27
5	QPSK	1	12	22.23	22.04	22.06
5	QPSK	1	24	22.22	21.84	21.72
5	QPSK	12	0	21.32	21.14	21.11
5	QPSK	12	7	21.30	21.13	21.10
5	QPSK	12	13	21.31	21.11	21.10
5	QPSK	25	0	21.46	21.13	21.14



5	16QAM	1	0	21.32	21.10	20.82
5	16QAM	1	12	21.50	20.97	21.11
5	16QAM	1	24	21.42	20.93	20.94
5	16QAM	12	0	20.37	20.07	20.02
5	16QAM	12	7	20.31	20.05	20.01
5	16QAM	12	13	20.46	20.01	19.99
5	16QAM	25	0	20.49	20.06	20.05
5	64QAM	1	0	21.36	20.96	21.02
5	64QAM	1	12	21.30	20.97	21.16
5	64QAM	1	24	21.44	20.93	21.05
5	64QAM	12	0	20.41	19.99	20.07
5	64QAM	12	7	20.42	20.00	20.04
5	64QAM	12	13	20.47	19.90	20.01
5	64QAM	25	0	20.45	19.94	20.09
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	22.34	22.01	22.68
3	QPSK	1	8	22.39	22.09	22.05
3	QPSK	1	14	22.38	21.93	21.91
3	QPSK	8	0	21.31	21.21	21.20
3	QPSK	8	4	21.30	21.20	21.15
3	QPSK	8	7	21.34	21.24	21.03
3	QPSK	15	0	21.31	21.16	21.12
3	16QAM	1	0	21.20	21.28	21.51
3	16QAM	1	8	21.16	21.20	21.29
3	16QAM	1	14	21.12	21.19	21.33
3	16QAM	8	0	20.12	20.22	20.37
3	16QAM	8	4	20.10	20.15	20.26
3	16QAM	8	7	20.11	20.22	20.32
3	16QAM	15	0	20.28	19.96	20.23
3	64QAM	1	0	20.93	21.06	21.56
3	64QAM	1	8	21.21	21.04	21.41
3	64QAM	1	14	20.92	21.08	21.75
3	64QAM	8	0	20.28	20.14	20.30
3	64QAM	8	4	20.25	20.13	20.24
3	64QAM	8	7	20.31	20.15	20.25
3	64QAM	15	0	20.28	20.04	20.18
Channel				23017	23095	23173



Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	22.27	22.27	22.33
1.4	QPSK	1	3	22.57	22.48	22.53
1.4	QPSK	1	5	22.56	22.24	22.33
1.4	QPSK	3	0	22.39	22.34	22.31
1.4	QPSK	3	1	22.37	22.33	22.30
1.4	QPSK	3	3	22.40	22.31	22.32
1.4	QPSK	6	0	21.43	21.40	21.31
1.4	16QAM	1	0	21.39	21.41	21.07
1.4	16QAM	1	3	21.56	21.61	21.20
1.4	16QAM	1	5	21.35	21.43	20.99
1.4	16QAM	3	0	21.50	21.31	21.12
1.4	16QAM	3	1	21.46	21.27	21.09
1.4	16QAM	3	3	21.55	21.30	21.10
1.4	16QAM	6	0	20.54	20.40	20.29
1.4	64QAM	1	0	21.32	21.39	21.06
1.4	64QAM	1	3	21.51	21.69	21.14
1.4	64QAM	1	5	21.39	21.44	21.03
1.4	64QAM	3	0	21.49	21.29	21.13
1.4	64QAM	3	1	21.46	21.28	21.15
1.4	64QAM	3	3	21.52	21.31	21.14
1.4	64QAM	6	0	20.54	20.39	20.33

<FDD LTE Band 13>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23230		
Frequency (MHz)				782		
10	QPSK	1	0	23.09		
10	QPSK	1	25	23.17		
10	QPSK	1	49	22.97		
10	QPSK	25	0	22.10		
10	QPSK	25	12	22.06		
10	QPSK	25	25	22.09		
10	QPSK	50	0	22.09		
10	16QAM	1	0	22.18		
10	16QAM	1	25	22.37		
10	16QAM	1	49	22.13		



10	16QAM	25	0	21.17		
10	16QAM	25	12	21.16		
10	16QAM	25	25	21.19		
10	16QAM	50	0	21.11		
10	64QAM	1	0	22.16		
10	64QAM	1	25	22.39		
10	64QAM	1	49	22.16		
10	64QAM	25	0	21.15		
10	64QAM	25	12	21.14		
10	64QAM	25	25	21.20		
10	64QAM	50	0	21.14		
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	23.03	22.97	22.94
5	QPSK	1	12	23.14	23.02	23.02
5	QPSK	1	24	22.96	22.88	22.88
5	QPSK	12	0	22.06	22.07	21.97
5	QPSK	12	7	22.06	22.02	22.00
5	QPSK	12	13	22.01	22.05	22.02
5	QPSK	25	0	21.99	22.05	22.02
5	16QAM	1	0	22.09	22.14	22.14
5	16QAM	1	12	22.22	22.26	22.25
5	16QAM	1	24	22.08	22.16	22.08
5	16QAM	12	0	20.91	21.06	20.91
5	16QAM	12	7	20.86	21.05	20.94
5	16QAM	12	13	20.90	21.04	20.96
5	16QAM	25	0	20.97	21.05	21.02
5	64QAM	1	0	22.07	22.16	22.15
5	64QAM	1	12	22.19	22.28	22.25
5	64QAM	1	24	22.07	22.14	22.07
5	64QAM	12	0	20.96	21.04	20.93
5	64QAM	12	7	20.89	21.05	20.94
5	64QAM	12	13	20.89	21.06	20.95
5	64QAM	25	0	20.95	21.04	21.00


<FDD LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590
Frequency (MHz)				1860	1880	1905
20	QPSK	1	0	22.86	23.09	22.76
20	QPSK	1	49	23.18	23.17	23.17
20	QPSK	1	99	22.58	22.69	22.83
20	QPSK	50	0	22.07	22.04	22.06
20	QPSK	50	24	22.03	21.96	21.99
20	QPSK	50	50	21.85	21.94	21.93
20	QPSK	100	0	21.94	21.97	21.96
20	16QAM	1	0	21.63	21.47	21.98
20	16QAM	1	49	21.87	21.90	22.36
20	16QAM	1	99	21.44	21.48	21.96
20	16QAM	50	0	20.96	21.21	21.20
20	16QAM	50	24	20.83	21.18	21.04
20	16QAM	50	50	21.06	21.09	21.08
20	16QAM	100	0	21.09	21.15	21.17
20	64QAM	1	0	21.68	21.48	21.99
20	64QAM	1	49	22.03	21.93	22.37
20	64QAM	1	99	21.45	21.48	21.99
20	64QAM	50	0	21.14	21.23	21.23
20	64QAM	50	24	21.19	21.20	21.19
20	64QAM	50	50	21.18	21.11	21.09
20	64QAM	100	0	21.28	21.16	21.14
Channel				26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5
15	QPSK	1	0	23.54	23.39	23.46
15	QPSK	1	37	23.49	23.49	23.23
15	QPSK	1	74	23.26	23.38	23.06
15	QPSK	36	0	22.50	22.51	22.13
15	QPSK	36	20	22.48	22.47	22.12
15	QPSK	36	39	22.37	22.36	22.08
15	QPSK	75	0	22.42	22.57	22.14
15	16QAM	1	0	22.47	22.65	22.11
15	16QAM	1	37	22.42	22.45	22.26



15	16QAM	1	74	22.30	22.40	22.16
15	16QAM	36	0	21.49	21.64	21.21
15	16QAM	36	20	21.46	21.57	21.18
15	16QAM	36	39	21.39	21.55	21.14
15	16QAM	75	0	21.49	21.64	21.26
15	64QAM	1	0	22.47	22.62	22.11
15	64QAM	1	37	22.42	22.53	22.26
15	64QAM	1	74	22.29	22.51	22.16
15	64QAM	36	0	21.50	21.48	21.20
15	64QAM	36	20	21.46	21.40	21.19
15	64QAM	36	39	21.41	21.41	21.11
15	64QAM	75	0	21.50	21.55	21.26
Channel				26090	26340	26640
Frequency (MHz)				1855	1880	1910
10	QPSK	1	0	23.61	23.46	23.56
10	QPSK	1	25	23.66	23.63	23.80
10	QPSK	1	49	23.43	23.47	23.65
10	QPSK	25	0	22.45	22.60	22.39
10	QPSK	25	12	22.43	22.59	22.34
10	QPSK	25	25	22.41	22.56	22.22
10	QPSK	50	0	22.44	22.58	22.20
10	16QAM	1	0	22.41	22.73	22.22
10	16QAM	1	25	22.43	22.92	22.53
10	16QAM	1	49	22.23	22.73	22.28
10	16QAM	25	0	21.52	21.77	21.45
10	16QAM	25	12	21.53	21.75	21.38
10	16QAM	25	25	21.49	21.70	21.30
10	16QAM	50	0	21.50	21.72	21.42
10	64QAM	1	0	22.40	22.75	22.39
10	64QAM	1	25	22.38	22.92	22.61
10	64QAM	1	49	22.22	22.74	22.21
10	64QAM	25	0	21.49	21.77	21.36
10	64QAM	25	12	21.45	21.76	21.39
10	64QAM	25	25	21.46	21.75	21.41
10	64QAM	50	0	21.48	21.69	21.33
Channel				26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5
5	QPSK	1	0	23.32	23.37	23.57



5	QPSK	1	12	23.39	23.49	23.73
5	QPSK	1	24	23.15	23.39	23.54
5	QPSK	12	0	22.43	22.53	22.25
5	QPSK	12	7	22.42	22.52	22.24
5	QPSK	12	13	22.42	22.47	22.19
5	QPSK	25	0	22.47	22.54	22.15
5	16QAM	1	0	22.66	22.64	22.22
5	16QAM	1	12	22.69	22.76	22.40
5	16QAM	1	24	22.53	22.66	22.22
5	16QAM	12	0	21.49	21.59	21.28
5	16QAM	12	7	21.46	21.50	21.23
5	16QAM	12	13	21.51	21.58	21.19
5	16QAM	25	0	21.51	21.67	21.31
5	64QAM	1	0	22.63	22.67	22.21
5	64QAM	1	12	22.67	22.78	22.32
5	64QAM	1	24	22.55	22.66	22.18
5	64QAM	12	0	21.52	21.59	21.29
5	64QAM	12	7	21.49	21.54	21.23
5	64QAM	12	13	21.51	21.58	21.16
5	64QAM	25	0	21.52	21.65	21.28
Channel				26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5
3	QPSK	1	0	23.59	23.48	23.62
3	QPSK	1	8	23.58	23.41	23.63
3	QPSK	1	14	23.56	23.46	23.71
3	QPSK	8	0	22.48	22.49	22.67
3	QPSK	8	4	22.46	22.48	22.67
3	QPSK	8	7	22.48	22.52	22.71
3	QPSK	15	0	22.45	22.49	22.62
3	16QAM	1	0	22.41	22.75	22.74
3	16QAM	1	8	22.39	22.76	22.71
3	16QAM	1	14	22.32	22.77	22.64
3	16QAM	8	0	21.54	21.56	21.44
3	16QAM	8	4	21.53	21.40	21.43
3	16QAM	8	7	21.54	21.57	21.61
3	16QAM	15	0	21.51	21.53	21.39
3	64QAM	1	0	22.40	22.77	22.60
3	64QAM	1	8	22.38	22.76	22.51



3	64QAM	1	14	22.35	22.78	22.45
3	64QAM	8	0	21.52	21.59	21.55
3	64QAM	8	4	21.50	21.57	21.50
3	64QAM	8	7	21.54	21.59	21.46
3	64QAM	15	0	21.53	21.54	21.50
Channel				26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3
1.4	QPSK	1	0	23.53	23.39	23.67
1.4	QPSK	1	3	23.67	23.58	23.94
1.4	QPSK	1	5	23.49	23.39	23.73
1.4	QPSK	3	0	23.50	23.51	23.67
1.4	QPSK	3	1	23.48	23.46	23.60
1.4	QPSK	3	3	23.44	23.47	23.62
1.4	QPSK	6	0	22.42	22.41	22.55
1.4	16QAM	1	0	22.45	22.61	22.42
1.4	16QAM	1	3	22.65	22.74	22.54
1.4	16QAM	1	5	22.41	22.60	22.38
1.4	16QAM	3	0	22.57	22.46	22.43
1.4	16QAM	3	1	22.56	22.45	22.40
1.4	16QAM	3	3	22.57	22.47	22.42
1.4	16QAM	6	0	21.53	21.48	21.40
1.4	64QAM	1	0	22.43	22.58	22.33
1.4	64QAM	1	3	22.63	22.74	22.61
1.4	64QAM	1	5	22.36	22.58	22.16
1.4	64QAM	3	0	22.56	22.47	22.22
1.4	64QAM	3	1	22.55	22.45	22.20
1.4	64QAM	3	3	22.57	22.48	22.17
1.4	64QAM	6	0	21.50	21.48	21.37

<FDD LTE Band 26>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26765	26865	26965
Frequency (MHz)				821.5	831.5	841.5
15	QPSK	1	0	22.67	22.61	22.64
15	QPSK	1	37	22.64	22.65	22.73
15	QPSK	1	74	22.52	22.59	22.72
15	QPSK	36	0	21.70	21.69	21.84



15	QPSK	36	20	21.69	21.75	21.62
15	QPSK	36	39	21.70	21.74	21.71
15	QPSK	75	0	21.67	21.70	21.80
15	16QAM	1	0	21.88	21.74	21.59
15	16QAM	1	37	21.85	21.77	21.67
15	16QAM	1	74	21.77	21.71	21.54
15	16QAM	36	0	20.65	20.59	20.70
15	16QAM	36	20	20.64	20.67	20.60
15	16QAM	36	39	20.62	20.61	20.63
15	16QAM	75	0	20.66	20.65	20.77
15	64QAM	1	0	21.92	21.71	21.59
15	64QAM	1	37	21.91	21.78	21.68
15	64QAM	1	74	21.79	21.69	21.58
15	64QAM	36	0	20.60	20.63	20.73
15	64QAM	36	20	20.56	20.53	20.64
15	64QAM	36	39	20.63	20.60	20.59
15	64QAM	75	0	20.64	20.67	20.74
Channel				26740	26865	26990
Frequency (MHz)				819	831.5	844
10	QPSK	1	0	22.78	22.69	22.73
10	QPSK	1	25	22.83	22.78	22.81
10	QPSK	1	49	22.69	22.70	22.77
10	QPSK	25	0	21.66	21.66	21.69
10	QPSK	25	12	21.53	21.64	21.59
10	QPSK	25	25	21.61	21.63	21.62
10	QPSK	50	0	21.66	21.67	21.67
10	16QAM	1	0	21.97	21.82	21.54
10	16QAM	1	25	22.00	21.90	21.63
10	16QAM	1	49	21.90	21.78	21.53
10	16QAM	25	0	20.69	20.63	20.72
10	16QAM	25	12	20.53	20.59	20.68
10	16QAM	25	25	20.71	20.69	20.60
10	16QAM	50	0	20.63	20.62	20.68
10	64QAM	1	0	22.00	21.81	21.52
10	64QAM	1	25	22.12	21.89	21.65
10	64QAM	1	49	21.92	21.80	21.51
10	64QAM	25	0	20.73	20.65	20.76
10	64QAM	25	12	20.69	20.60	20.75



10	64QAM	25	25	20.69	20.64	20.58
10	64QAM	50	0	20.68	20.65	20.65
Channel				26715	26865	27015
Frequency (MHz)				816.5	831.5	846.5
5	QPSK	1	0	22.66	22.56	22.51
5	QPSK	1	12	22.69	22.66	22.67
5	QPSK	1	24	22.62	22.56	22.57
5	QPSK	12	0	21.62	21.68	21.71
5	QPSK	12	7	21.58	21.65	21.70
5	QPSK	12	13	21.68	21.64	21.59
5	QPSK	25	0	21.71	21.63	21.68
5	16QAM	1	0	21.90	21.71	21.85
5	16QAM	1	12	21.95	21.83	21.91
5	16QAM	1	24	21.85	21.71	21.79
5	16QAM	12	0	20.61	20.57	20.73
5	16QAM	12	7	20.65	20.54	20.71
5	16QAM	12	13	20.71	20.59	20.62
5	16QAM	25	0	20.72	20.64	20.65
5	64QAM	1	0	21.91	21.71	21.81
5	64QAM	1	12	21.96	21.82	21.92
5	64QAM	1	24	21.86	21.71	21.80
5	64QAM	12	0	20.61	20.56	20.68
5	64QAM	12	7	20.57	20.52	20.65
5	64QAM	12	13	20.65	20.57	20.60
5	64QAM	25	0	20.72	20.65	20.64
Channel				26705	26865	27025
Frequency (MHz)				815.5	831.5	847.5
3	QPSK	1	0	22.76	22.62	22.76
3	QPSK	1	8	22.71	22.61	22.78
3	QPSK	1	14	22.65	22.71	22.86
3	QPSK	8	0	21.71	21.64	21.74
3	QPSK	8	4	21.68	21.65	21.70
3	QPSK	8	7	21.73	21.71	21.73
3	QPSK	15	0	21.69	21.66	21.68
3	16QAM	1	0	21.94	21.76	21.52
3	16QAM	1	8	21.94	21.77	21.60
3	16QAM	1	14	21.95	21.80	21.54
3	16QAM	8	0	20.69	20.62	20.68



3	16QAM	8	4	20.68	20.54	20.67
3	16QAM	8	7	20.72	20.64	20.70
3	16QAM	15	0	20.65	20.55	20.61
3	64QAM	1	0	21.99	21.81	21.51
3	64QAM	1	8	21.96	21.78	21.57
3	64QAM	1	14	21.89	21.77	21.55
3	64QAM	8	0	20.70	20.62	20.71
3	64QAM	8	4	20.67	20.60	20.70
3	64QAM	8	7	20.71	20.64	20.69
3	64QAM	15	0	20.65	20.56	20.62
Channel				26697	26865	27033
Frequency (MHz)				814.7	831.5	848.3
1.4	QPSK	1	0	22.80	22.57	22.70
1.4	QPSK	1	3	22.99	22.76	22.98
1.4	QPSK	1	5	22.76	22.55	22.75
1.4	QPSK	3	0	22.75	22.64	22.74
1.4	QPSK	3	1	22.73	22.60	22.71
1.4	QPSK	3	3	22.74	22.59	22.70
1.4	QPSK	6	0	21.72	21.59	21.70
1.4	16QAM	1	0	21.63	21.70	21.49
1.4	16QAM	1	3	21.92	21.92	21.67
1.4	16QAM	1	5	21.59	21.70	21.50
1.4	16QAM	3	0	21.85	21.60	21.62
1.4	16QAM	3	1	21.84	21.59	21.60
1.4	16QAM	3	3	21.87	21.60	21.61
1.4	16QAM	6	0	20.72	20.58	20.62
1.4	64QAM	1	0	21.67	21.73	21.50
1.4	64QAM	1	3	21.91	21.97	21.68
1.4	64QAM	1	5	21.69	21.70	21.52
1.4	64QAM	3	0	21.85	21.60	21.60
1.4	64QAM	3	1	21.86	21.59	21.61
1.4	64QAM	3	3	21.89	21.61	21.62
1.4	64QAM	6	0	20.73	20.55	20.61



<FDD LTE Band 41>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	24.56	24.91	25.10
20	QPSK	1	49	24.71	25.37	25.32
20	QPSK	1	99	24.28	25.03	24.93
20	QPSK	50	0	24.63	25.26	25.18
20	QPSK	50	24	24.60	25.10	24.90
20	QPSK	50	50	24.50	25.18	25.07
20	QPSK	100	0	24.55	25.16	25.15
20	16QAM	1	0	24.60	24.74	24.68
20	16QAM	1	49	24.73	25.21	25.02
20	16QAM	1	99	24.34	24.91	24.52
20	16QAM	50	0	24.54	25.01	25.14
20	16QAM	50	24	24.55	24.91	24.94
20	16QAM	50	50	24.43	25.06	25.06
20	16QAM	100	0	24.50	25.09	25.09
20	64QAM	1	0	24.61	24.74	24.70
20	64QAM	1	49	24.73	25.21	25.03
20	64QAM	1	99	24.32	24.89	24.52
20	64QAM	50	0	24.57	25.02	25.14
20	64QAM	50	24	24.55	25.00	24.96
20	64QAM	50	50	24.44	25.05	25.04
20	64QAM	100	0	24.51	25.09	25.10
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	24.66	25.01	25.37
15	QPSK	1	37	24.55	25.15	25.39
15	QPSK	1	74	24.39	25.11	25.20
15	QPSK	36	0	24.71	25.19	24.97
15	QPSK	36	20	24.76	24.86	25.06
15	QPSK	36	39	24.62	25.25	25.26
15	QPSK	75	0	24.69	25.24	25.26
15	16QAM	1	0	24.89	24.99	25.21
15	16QAM	1	37	24.78	25.17	25.27



15	16QAM	1	74	24.63	25.14	25.07
15	16QAM	36	0	24.65	25.08	25.25
15	16QAM	36	20	24.59	25.10	25.18
15	16QAM	36	39	24.52	25.16	25.14
15	16QAM	75	0	24.63	25.14	25.22
15	64QAM	1	0	24.89	24.98	25.23
15	64QAM	1	37	24.80	25.16	25.25
15	64QAM	1	74	24.63	25.11	25.07
15	64QAM	36	0	24.68	25.08	25.23
15	64QAM	36	20	24.67	25.14	25.21
15	64QAM	36	39	24.53	25.15	25.14
15	64QAM	75	0	24.62	25.14	25.17
Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	24.72	25.13	25.33
10	QPSK	1	25	24.86	25.38	25.48
10	QPSK	1	49	24.51	25.21	25.19
10	QPSK	25	0	24.67	25.17	25.27
10	QPSK	25	12	24.65	25.16	25.14
10	QPSK	25	25	24.63	25.21	25.18
10	QPSK	50	0	24.61	25.16	25.21
10	16QAM	1	0	24.96	25.13	25.15
10	16QAM	1	25	25.06	25.38	25.31
10	16QAM	1	49	24.73	25.20	25.03
10	16QAM	25	0	24.68	25.14	25.22
10	16QAM	25	12	24.66	25.10	25.20
10	16QAM	25	25	24.60	25.15	25.13
10	16QAM	50	0	24.57	25.07	25.12
10	64QAM	1	0	25.02	25.11	25.14
10	64QAM	1	25	25.06	25.37	25.32
10	64QAM	1	49	24.72	25.20	25.02
10	64QAM	25	0	24.69	25.11	25.19
10	64QAM	25	12	24.66	25.07	25.18
10	64QAM	25	25	24.60	25.14	25.13
10	64QAM	50	0	24.55	25.05	25.15
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	24.64	25.05	25.06



5	QPSK	1	12	24.77	25.23	25.19
5	QPSK	1	24	24.54	25.11	25.02
5	QPSK	12	0	24.66	25.13	25.20
5	QPSK	12	7	24.65	25.09	25.13
5	QPSK	12	13	24.62	25.16	25.13
5	QPSK	25	0	24.65	25.13	25.16
5	16QAM	1	0	24.90	25.09	25.33
5	16QAM	1	12	25.00	25.25	25.46
5	16QAM	1	24	24.79	25.14	25.28
5	16QAM	12	0	24.55	24.97	25.12
5	16QAM	12	7	24.54	24.95	25.05
5	16QAM	12	13	24.50	25.00	25.07
5	16QAM	25	0	24.61	25.02	25.10
5	64QAM	1	0	24.88	25.09	25.33
5	64QAM	1	12	25.00	25.23	25.45
5	64QAM	1	24	24.79	25.13	25.26
5	64QAM	12	0	24.56	24.96	25.16
5	64QAM	12	7	24.54	24.92	25.14
5	64QAM	12	13	24.49	25.00	25.11
5	64QAM	25	0	24.60	25.03	25.11

<FDD LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	21.87	22.04	21.85
20	QPSK	1	49	22.28	22.34	22.27
20	QPSK	1	99	21.89	21.86	21.84
20	QPSK	50	0	21.03	21.22	21.25
20	QPSK	50	24	21.20	21.08	21.20
20	QPSK	50	50	21.21	21.13	21.22
20	QPSK	100	0	21.09	21.17	21.26
20	16QAM	1	0	21.06	20.80	20.69
20	16QAM	1	49	21.48	21.18	21.10
20	16QAM	1	99	21.03	20.78	20.68
20	16QAM	50	0	20.04	20.19	20.30



20	16QAM	50	24	20.18	20.29	20.24
20	16QAM	50	50	20.27	20.13	20.26
20	16QAM	100	0	20.12	20.16	20.25
20	64QAM	1	0	21.06	20.80	20.68
20	64QAM	1	49	21.43	21.18	21.06
20	64QAM	1	99	21.02	20.77	20.67
20	64QAM	50	0	20.03	20.15	20.30
20	64QAM	50	24	20.10	20.13	20.13
20	64QAM	50	50	20.27	20.08	20.26
20	64QAM	100	0	20.13	20.15	20.22
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	22.02	22.10	22.14
15	QPSK	1	37	22.10	22.09	22.29
15	QPSK	1	74	22.00	22.00	22.09
15	QPSK	36	0	21.17	21.26	21.31
15	QPSK	36	20	21.19	21.26	21.30
15	QPSK	36	39	21.23	21.23	21.34
15	QPSK	75	0	21.20	21.27	21.34
15	16QAM	1	0	21.25	21.24	21.22
15	16QAM	1	37	21.41	21.36	21.31
15	16QAM	1	74	21.25	21.25	21.14
15	16QAM	36	0	20.11	20.20	20.26
15	16QAM	36	20	20.10	20.19	20.25
15	16QAM	36	39	20.17	20.16	20.24
15	16QAM	75	0	20.18	20.23	20.31
15	64QAM	1	0	21.25	21.20	21.20
15	64QAM	1	37	21.39	21.32	21.30
15	64QAM	1	74	21.28	21.21	21.14
15	64QAM	36	0	20.11	20.22	20.28
15	64QAM	36	20	20.10	20.20	20.24
15	64QAM	36	39	20.20	20.16	20.26
15	64QAM	75	0	20.18	20.23	20.30
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	22.06	22.16	22.18
10	QPSK	1	25	22.14	22.25	22.33
10	QPSK	1	49	22.05	22.05	22.19



10	QPSK	25	0	21.11	21.20	21.27
10	QPSK	25	12	21.10	21.17	21.26
10	QPSK	25	25	21.17	21.17	21.25
10	QPSK	50	0	21.15	21.15	21.28
10	16QAM	1	0	21.34	21.27	21.05
10	16QAM	1	25	21.42	21.41	21.18
10	16QAM	1	49	21.32	21.30	21.05
10	16QAM	25	0	20.19	20.20	20.28
10	16QAM	25	12	20.14	20.17	20.24
10	16QAM	25	25	20.26	20.20	20.25
10	16QAM	50	0	20.16	20.12	20.25
10	64QAM	1	0	21.32	21.31	21.09
10	64QAM	1	25	21.36	21.42	21.18
10	64QAM	1	49	21.32	21.33	21.08
10	64QAM	25	0	20.20	20.23	20.25
10	64QAM	25	12	20.16	20.20	20.22
10	64QAM	25	25	20.27	20.21	20.24
10	64QAM	50	0	20.17	20.14	20.26
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	21.99	22.01	22.00
5	QPSK	1	12	22.07	22.13	22.09
5	QPSK	1	24	21.95	21.97	21.98
5	QPSK	12	0	21.01	21.19	21.14
5	QPSK	12	7	21.00	21.16	21.11
5	QPSK	12	13	21.00	21.12	21.16
5	QPSK	25	0	21.02	21.16	21.18
5	16QAM	1	0	21.26	21.24	21.33
5	16QAM	1	12	21.35	21.38	21.46
5	16QAM	1	24	21.21	21.24	21.29
5	16QAM	12	0	19.94	20.09	20.19
5	16QAM	12	7	19.98	20.08	20.18
5	16QAM	12	13	19.96	20.05	20.17
5	16QAM	25	0	20.06	20.12	20.19
5	64QAM	1	0	21.27	21.22	21.29
5	64QAM	1	12	21.34	21.31	21.43
5	64QAM	1	24	21.26	21.21	21.32
5	64QAM	12	0	19.99	20.08	20.21



5	64QAM	12	7	20.00	20.05	20.16
5	64QAM	12	13	19.97	20.05	20.16
5	64QAM	25	0	20.04	20.13	20.18
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	22.08	22.06	22.16
3	QPSK	1	8	22.04	22.07	22.22
3	QPSK	1	14	22.00	22.07	22.18
3	QPSK	8	0	21.05	21.16	21.18
3	QPSK	8	4	21.00	21.11	21.09
3	QPSK	8	7	21.01	21.16	21.19
3	QPSK	15	0	21.00	21.10	21.14
3	16QAM	1	0	21.35	21.31	21.03
3	16QAM	1	8	21.32	21.27	21.08
3	16QAM	1	14	21.29	21.29	21.07
3	16QAM	8	0	20.03	20.11	20.22
3	16QAM	8	4	20.00	20.10	20.16
3	16QAM	8	7	19.99	20.12	20.19
3	16QAM	15	0	19.95	19.98	20.15
3	64QAM	1	0	21.36	21.31	21.01
3	64QAM	1	8	21.30	21.30	21.05
3	64QAM	1	14	21.27	21.25	21.04
3	64QAM	8	0	20.05	20.11	20.17
3	64QAM	8	4	20.01	20.09	20.15
3	64QAM	8	7	20.00	20.11	20.17
3	64QAM	15	0	19.95	20.01	20.17
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	22.50	22.43	22.36
1.4	QPSK	1	3	22.73	22.68	22.27
1.4	QPSK	1	5	22.54	22.32	22.12
1.4	QPSK	3	0	22.48	22.26	22.13
1.4	QPSK	3	1	22.50	22.19	22.08
1.4	QPSK	3	3	22.53	22.15	22.10
1.4	QPSK	6	0	21.58	21.31	21.20
1.4	16QAM	1	0	21.49	21.38	21.05
1.4	16QAM	1	3	21.80	21.64	21.15
1.4	16QAM	1	5	21.53	21.61	21.05



1.4	16QAM	3	0	21.51	21.42	21.13
1.4	16QAM	3	1	21.43	21.35	21.09
1.4	16QAM	3	3	21.64	21.43	21.12
1.4	16QAM	6	0	20.52	20.56	20.16
1.4	64QAM	1	0	21.47	21.51	21.04
1.4	64QAM	1	3	21.55	21.83	21.17
1.4	64QAM	1	5	21.24	21.51	21.04
1.4	64QAM	3	0	21.38	21.25	21.14
1.4	64QAM	3	1	21.22	21.12	21.06
1.4	64QAM	3	3	21.23	21.34	21.05
1.4	64QAM	6	0	20.28	20.50	20.17

<FDD LTE Band 71>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				133222	133322	133372
Frequency (MHz)				673	683	688
20	QPSK	1	0	22.52	22.71	22.76
20	QPSK	1	49	22.71	23.22	23.12
20	QPSK	1	99	22.23	22.78	22.60
20	QPSK	50	0	22.57	22.92	22.85
20	QPSK	50	24	22.69	22.60	22.54
20	QPSK	50	50	22.44	22.91	22.69
20	QPSK	100	0	22.52	22.91	22.83
20	16QAM	1	0	22.56	22.56	22.34
20	16QAM	1	49	22.73	23.04	22.69
20	16QAM	1	99	22.24	22.63	22.20
20	16QAM	50	0	22.53	22.79	22.79
20	16QAM	50	24	22.46	22.43	22.52
20	16QAM	50	50	22.37	22.80	22.68
20	16QAM	100	0	22.49	22.84	22.77
20	64QAM	1	0	22.25	22.34	22.40
20	64QAM	1	49	22.06	22.28	22.27
20	64QAM	1	99	22.72	22.93	22.13
20	64QAM	50	0	22.19	22.20	21.85
20	64QAM	50	24	21.80	22.60	22.78
20	64QAM	50	50	22.12	21.75	21.93



20	64QAM	100	0	21.98	22.72	22.47
Channel				133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5
15	QPSK	1	0	22.06	22.55	22.70
15	QPSK	1	37	22.65	22.59	23.05
15	QPSK	1	74	22.23	22.02	22.42
15	QPSK	36	0	22.33	22.36	22.31
15	QPSK	36	20	21.96	22.27	22.50
15	QPSK	36	39	22.21	22.43	22.61
15	QPSK	75	0	22.16	22.75	22.25
15	16QAM	1	0	22.03	22.10	22.01
15	16QAM	1	37	22.36	22.90	22.61
15	16QAM	1	74	21.95	21.84	21.95
15	16QAM	36	0	22.46	22.25	22.78
15	16QAM	36	20	22.35	22.43	22.51
15	16QAM	36	39	22.04	22.33	22.56
15	16QAM	75	0	22.22	22.31	22.64
15	64QAM	1	0	21.94	22.48	22.27
15	64QAM	1	37	22.40	22.87	22.06
15	64QAM	1	74	22.18	22.17	22.12
15	64QAM	36	0	22.49	21.98	22.32
15	64QAM	36	20	21.97	22.38	22.36
15	64QAM	36	39	22.13	22.68	22.60
15	64QAM	75	0	22.41	22.28	22.50
Channel				133172	133297	133422
Frequency (MHz)				668	680.5	693
10	QPSK	1	0	21.71	22.48	22.24
10	QPSK	1	25	22.32	22.57	23.04
10	QPSK	1	49	21.84	21.95	22.28
10	QPSK	25	0	22.43	22.85	22.23
10	QPSK	25	12	22.18	21.66	21.94
10	QPSK	25	25	22.18	22.54	22.07
10	QPSK	50	0	21.79	21.95	22.62
10	16QAM	1	0	22.11	22.49	22.21
10	16QAM	1	25	22.66	22.59	22.09
10	16QAM	1	49	21.74	22.39	21.31
10	16QAM	25	0	22.24	22.01	22.47
10	16QAM	25	12	22.07	21.74	21.35



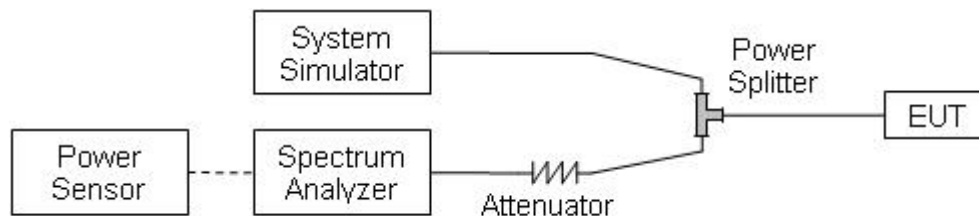
10	16QAM	25	25	22.08	22.51	22.63
10	16QAM	50	0	21.81	22.42	22.09
10	64QAM	1	0	22.29	22.18	21.76
10	64QAM	1	25	22.52	22.86	22.64
10	64QAM	1	49	21.44	22.62	22.09
10	64QAM	25	0	22.38	22.48	22.44
10	64QAM	25	12	22.39	22.24	21.99
10	64QAM	25	25	22.34	22.33	22.07
10	64QAM	50	0	22.05	22.19	22.71
Channel				133147	133297	133447
Frequency (MHz)				665.5	680.5	695.5
5	QPSK	1	0	22.49	22.07	22.59
5	QPSK	1	12	22.29	22.69	23.05
5	QPSK	1	24	22.04	22.32	22.39
5	QPSK	12	0	22.17	22.32	22.10
5	QPSK	12	7	22.53	22.46	22.05
5	QPSK	12	13	22.14	22.68	22.56
5	QPSK	25	0	21.98	22.60	22.30
5	16QAM	1	0	22.36	22.46	22.23
5	16QAM	1	12	21.94	22.80	22.61
5	16QAM	1	24	21.84	22.44	22.10
5	16QAM	12	0	22.15	22.69	22.48
5	16QAM	12	7	22.34	22.38	22.21
5	16QAM	12	13	21.57	22.30	21.93
5	16QAM	25	0	21.81	22.53	22.59
5	64QAM	1	0	22.50	22.05	21.97
5	64QAM	1	12	22.29	22.93	22.55
5	64QAM	1	24	21.93	22.57	22.00
5	64QAM	12	0	22.48	22.33	22.73
5	64QAM	12	7	22.15	22.28	22.42
5	64QAM	12	13	22.32	22.73	21.92
5	64QAM	25	0	22.39	22.66	22.00

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 D01 v03r01r01 Section 4.1 and ANSI/TIA-603-E-2016.



2.2.4. Test Result

LTE Band 2							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.095	1.284	1.088	1.303	1.093	1.313
	16QAM	1.094	1.315	1.095	1.304	1.090	1.280
	64QAM	1.097	1.295	1.096	1.304	1.090	1.274
3	QPSK	2.691	2.92	2.696	2.916	2.691	2.905
	16QAM	2.688	2.908	2.694	2.896	2.690	2.926
	64QAM	2.686	2.928	2.689	2.905	2.693	2.920
5	QPSK	4.526	5.197	4.540	5.616	4.514	5.135
	16QAM	4.511	5.113	4.517	5.275	4.525	5.153
	64QAM	4.510	5.135	4.519	5.411	4.534	5.146
10	QPSK	8.973	9.989	9.007	10.156	9.005	9.993
	16QAM	8.998	9.919	9.007	9.931	8.987	9.935
	64QAM	8.990	9.953	8.974	9.957	8.989	9.935
15	QPSK	13.493	14.900	13.510	15.117	13.494	14.764
	16QAM	13.453	14.828	13.469	15.330	13.457	14.747
	64QAM	13.461	14.679	13.472	15.522	13.484	14.695
20	QPSK	17.938	19.498	17.972	20.424	17.968	20.586
	16QAM	17.984	19.656	18.030	20.866	18.014	19.923
	64QAM	17.971	19.713	18.004	19.680	17.983	19.573

LTE Band 4							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.094	1.282	1.096	1.309	1.096	1.292
	16QAM	1.098	1.316	1.091	1.280	1.098	1.284
	64QAM	1.096	1.304	1.091	1.275	1.099	1.290
3	QPSK	2.695	3.246	2.701	2.928	2.699	2.922
	16QAM	2.688	2.926	2.691	3.105	2.689	2.933
	64QAM	2.691	3.271	2.694	2.910	2.688	2.920



5	QPSK	4.533	5.381	4.518	5.164	4.515	5.180
	16QAM	4.524	5.167	4.532	5.157	4.538	5.212
	64QAM	4.524	5.162	4.538	5.162	4.532	5.211
10	QPSK	8.993	9.964	9.009	10.109	9.020	10.076
	16QAM	9.025	10.018	9.037	9.934	9.028	10.283
	64QAM	8.999	10.057	9.028	9.938	9.011	9.923
15	QPSK	13.479	14.718	13.493	14.895	13.517	15.033
	16QAM	13.454	14.924	13.498	14.901	13.537	15.058
	64QAM	13.449	14.829	13.567	15.041	13.525	14.537
20	QPSK	17.929	19.312	17.998	19.828	18.078	19.811
	16QAM	17.917	19.640	18.024	19.523	18.046	19.826
	64QAM	17.886	19.255	18.024	19.574	18.054	19.729

LTE Band 5							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.096	1.298	1.098	1.295	1.099	1.288
	16QAM	1.098	1.316	1.086	1.284	1.095	1.309
	64QAM	1.097	1.287	1.088	1.278	1.091	1.293
3	QPSK	2.697	2.915	2.694	2.916	2.701	2.927
	16QAM	2.690	2.911	2.692	2.924	2.695	2.933
	64QAM	2.687	2.920	2.694	2.925	2.694	2.922
5	QPSK	4.530	5.310	4.527	5.242	4.531	5.246
	16QAM	4.516	5.260	4.541	5.239	4.566	5.251
	64QAM	4.518	5.230	4.540	5.294	4.565	5.238
10	QPSK	8.974	10.018	9.049	10.060	8.970	9.890
	16QAM	8.960	9.987	9.042	10.092	8.940	9.809
	64QAM	8.980	9.962	9.078	10.318	8.977	9.834

LTE Band 12							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.090	1.295	1.097	1.303	1.096	1.379



	16QAM	1.100	1.316	1.088	1.276	1.098	1.303
	64QAM	1.101	1.298	1.091	1.277	1.092	1.283
3	QPSK	2.692	2.906	2.686	2.915	2.700	2.927
	16QAM	2.695	2.924	2.691	2.906	2.694	2.928
	64QAM	2.693	2.931	2.687	2.903	2.692	2.911
5	QPSK	4.559	5.282	4.497	5.105	4.531	5.225
	16QAM	4.535	5.188	4.511	5.493	4.563	5.257
	64QAM	4.530	5.161	4.515	6.013	4.558	5.251
10	QPSK	9.027	9.828	8.887	9.738	9.021	10.100
	16QAM	9.025	9.820	8.901	9.830	9.003	9.903
	64QAM	9.008	10.100	8.904	9.745	9.033	9.963

LTE Band 13							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
5	QPSK	4.520	5.152	4.524	5.160	4.512	5.156
	16QAM	4.512	5.126	4.540	5.181	4.535	5.236
	64QAM	4.515	5.100	4.549	5.187	4.530	5.263
10	QPSK	/	/	8.996	10.150	/	/
	16QAM	/	/	9.005	9.986	/	/
	64QAM	/	/	9.001	9.832	/	/

LTE Band 25							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.091	1.286	1.092	1.298	1.097	1.285
	16QAM	1.095	1.297	1.090	1.271	1.096	1.302
	64QAM	1.094	1.287	1.089	1.271	1.097	1.284
3	QPSK	2.693	2.936	2.699	2.903	2.699	2.917
	16QAM	2.682	2.932	2.691	2.909	2.692	2.911
	64QAM	2.689	2.968	2.693	2.923	2.695	2.924
5	QPSK	4.525	5.140	4.518	5.123	4.518	5.173
	16QAM	4.517	5.129	4.523	5.153	4.543	5.235



	64QAM	4.513	5.183	4.531	5.161	4.537	5.293
10	QPSK	8.992	10.073	9.018	9.889	8.990	10.072
	16QAM	9.003	9.957	9.001	10.109	9.002	10.038
	64QAM	9.002	9.931	9.018	9.982	9.017	9.850
15	QPSK	13.467	15.079	13.444	14.84	13.468	14.873
	16QAM	13.455	14.809	13.506	15.049	13.454	14.856
	64QAM	13.457	14.882	13.444	14.909	13.483	14.635
20	QPSK	17.982	19.381	17.979	19.798	17.877	19.351
	16QAM	18.009	19.430	18.027	19.515	17.887	19.327
	64QAM	17.956	19.591	17.931	19.685	17.941	19.523

LTE Band 26							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.093	1.273	1.091	1.294	1.096	1.270
	16QAM	1.095	1.300	1.086	1.275	1.091	1.284
	64QAM	1.096	1.296	1.086	1.269	1.094	1.284
3	QPSK	2.694	2.909	2.696	2.914	2.692	2.916
	16QAM	2.687	2.921	2.691	2.910	2.689	2.922
	64QAM	2.686	2.917	2.694	2.926	2.685	2.920
5	QPSK	4.505	4.915	4.495	4.942	4.490	4.896
	16QAM	4.487	4.914	4.499	4.896	4.497	4.948
	64QAM	4.488	4.898	4.507	4.931	4.495	4.946
10	QPSK	8.974	9.757	8.989	9.671	9.004	9.653
	16QAM	8.967	9.653	9.000	9.715	8.988	9.699
	64QAM	8.988	9.674	8.965	9.601	8.979	9.689
15	QPSK	13.430	14.468	13.455	14.387	13.476	14.582
	16QAM	13.468	14.501	13.432	14.462	13.458	14.401
	64QAM	13.438	14.510	13.439	14.462	13.483	14.510

LTE Band 41							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz



5	QPSK	4.496	4.927	4.501	4.890	4.488	4.915
	16QAM	4.496	5.155	4.498	5.540	4.489	4.931
	64QAM	4.498	5.129	4.501	5.493	4.490	4.911
10	QPSK	8.991	9.759	8.984	9.781	8.997	9.555
	16QAM	9.008	9.773	8.994	9.721	8.996	9.645
	64QAM	9.034	9.804	8.981	9.652	9.002	9.727
15	QPSK	13.500	14.591	13.479	14.416	13.432	14.477
	16QAM	13.515	15.318	13.504	14.869	13.483	14.426
	64QAM	13.523	14.412	13.509	15.219	13.449	14.296
20	QPSK	17.965	19.181	17.963	19.382	17.970	19.357
	16QAM	18.016	19.576	17.977	19.105	18.001	19.109
	64QAM	18.004	21.095	17.973	19.035	17.940	19.369

LTE Band 66							
BW MHz	Modulation	Low Channel		Middle Channel		High Channel	
		OBW MHz	26dB BW MHz	OBW MHz	26dB BW MHz	OBW MHz	26dB BW MHz
1.4	QPSK	1.093	1.277	1.087	1.283	1.096	1.290
	16QAM	1.093	1.312	1.087	1.259	1.092	1.291
	64QAM	1.093	1.320	1.087	1.262	1.095	1.276
3	QPSK	2.692	2.922	2.690	2.908	2.694	2.916
	16QAM	2.687	2.912	2.694	2.907	2.685	2.921
	64QAM	2.689	2.903	2.692	2.904	2.685	2.914
5	QPSK	4.524	5.168	4.515	5.134	4.506	5.161
	16QAM	4.515	5.108	4.525	5.162	4.534	5.184
	64QAM	4.517	5.178	4.530	5.168	4.530	5.230
10	QPSK	9.004	10.086	8.997	10.054	9.001	10.108
	16QAM	9.015	10.045	9.016	9.808	9.009	10.046
	64QAM	9.001	9.857	8.990	10.065	8.985	10.016
15	QPSK	13.521	15.037	13.509	14.973	13.511	14.963
	16QAM	13.524	15.037	13.468	14.942	13.498	15.054
	64QAM	13.515	14.639	13.469	14.823	13.495	14.652
20	QPSK	17.999	19.420	17.953	19.566	17.985	20.071
	16QAM	17.981	19.724	17.985	19.529	17.998	19.432



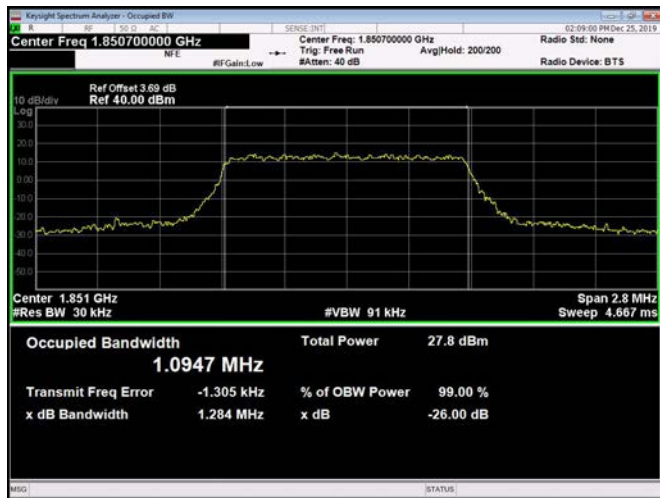
	64QAM	18.006	19.751	18.013	19.717	18.011	19.644
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LTE Band 71							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
5	QPSK	4.512	5.062	4.525	5.076	4.528	5.108
	16QAM	4.514	5.048	4.507	5.008	4.505	4.994
	64QAM	4.517	5.068	4.510	4.991	4.505	4.893
10	QPSK	8.989	9.917	8.972	9.974	8.990	10.060
	16QAM	8.971	9.997	8.964	9.665	9.015	10.860
	64QAM	8.978	10.090	8.937	9.726	9.003	10.470
15	QPSK	13.432	14.860	13.542	15.110	13.436	14.810
	16QAM	13.455	14.780	13.490	14.900	13.440	14.890
	64QAM	13.436	14.670	13.518	14.990	13.425	14.850
20	QPSK	17.962	19.900	17.999	20.050	17.941	19.510
	16QAM	17.927	19.590	17.955	19.480	17.943	19.520
	64QAM	17.945	19.330	17.946	19.630	17.993	19.480



LTE Band 2 _ 99% Bandwidth & 26dB Bandwidth

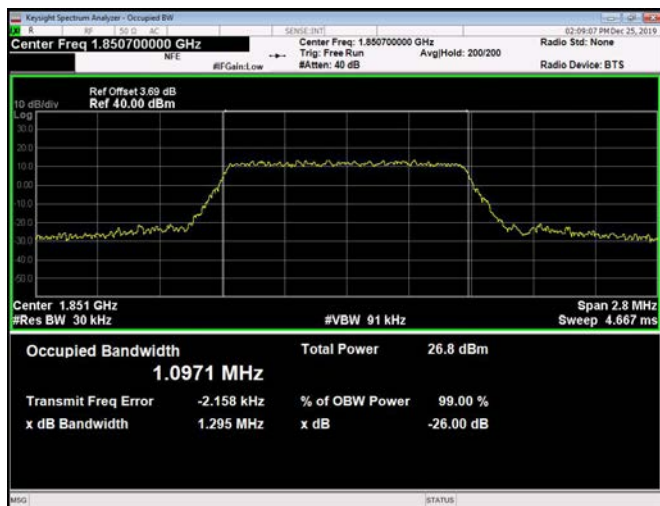
1.4MHz / QPSK / Low Channel



1.4MHz / 16QAM / Low Channel

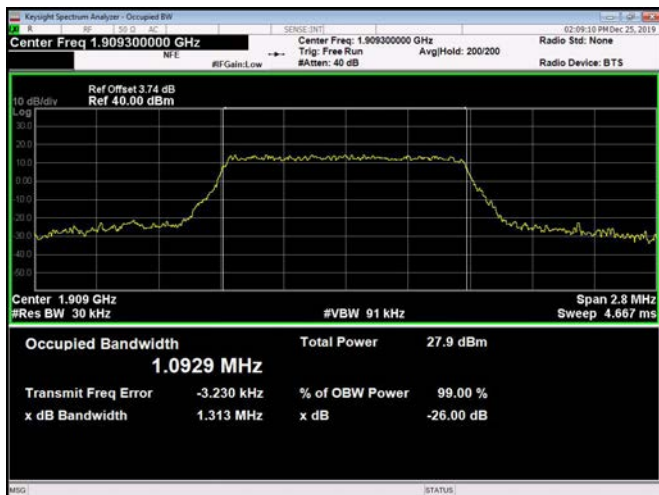


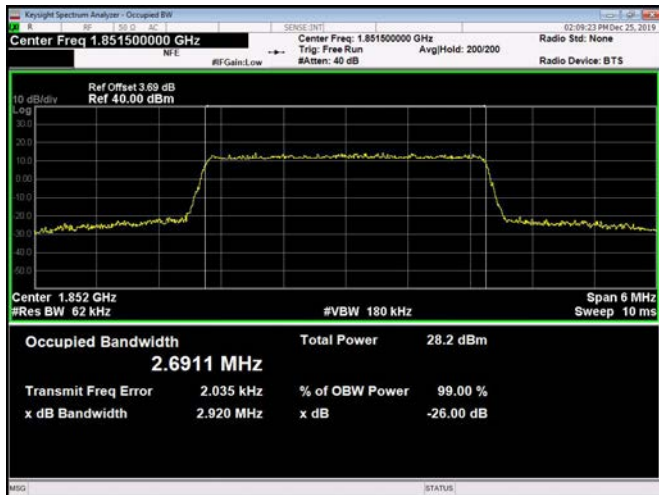
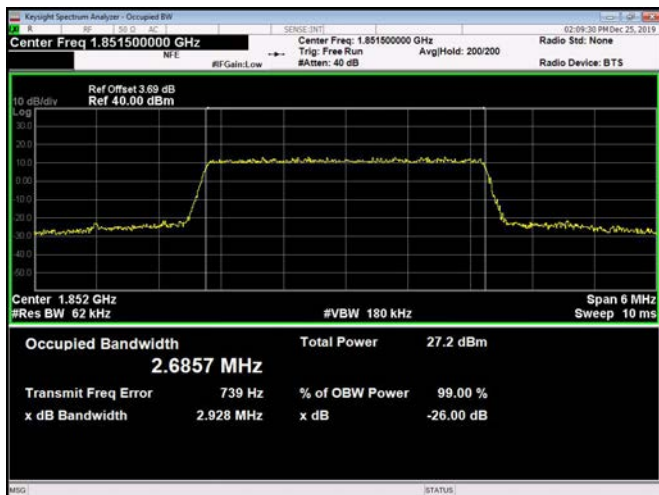
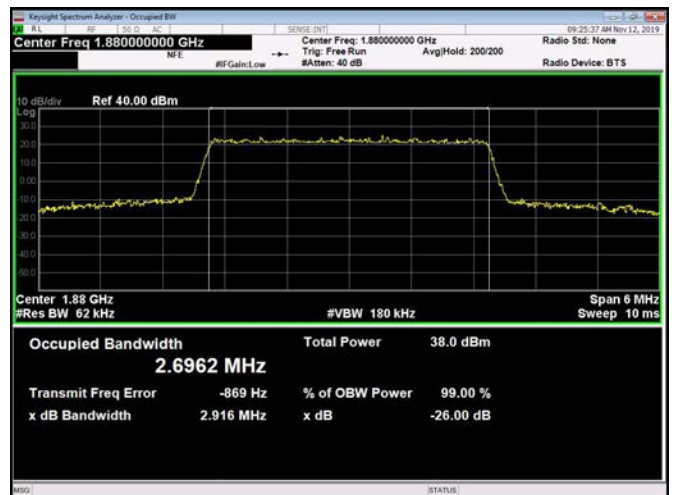
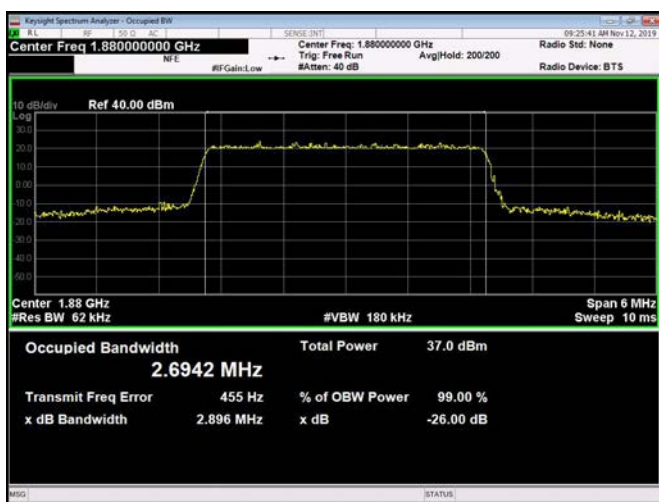
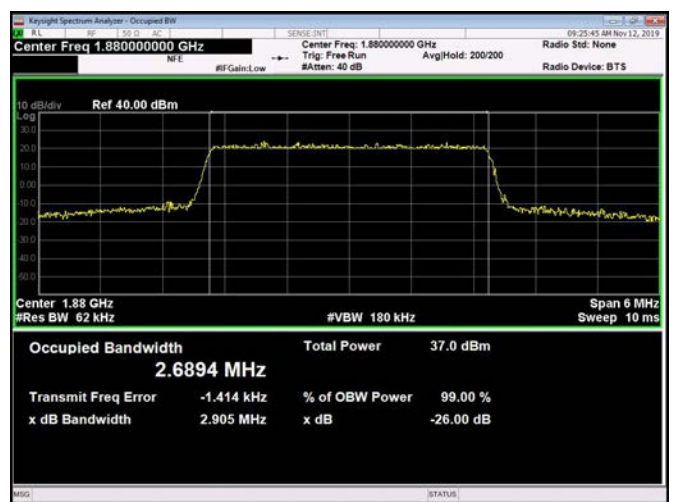
1.4MHz / 64QAM / Low Channel

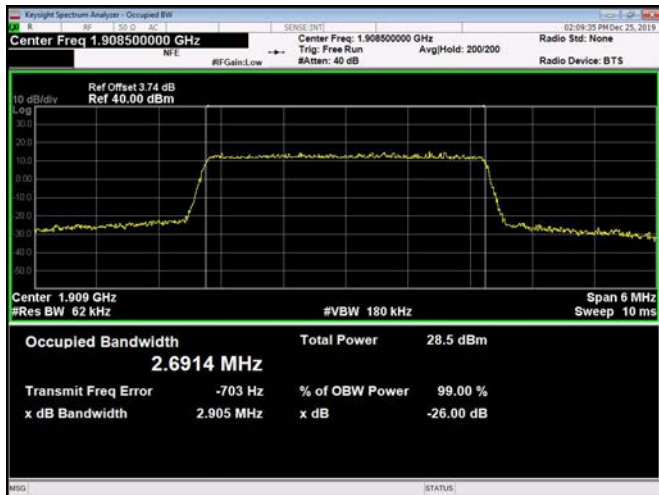
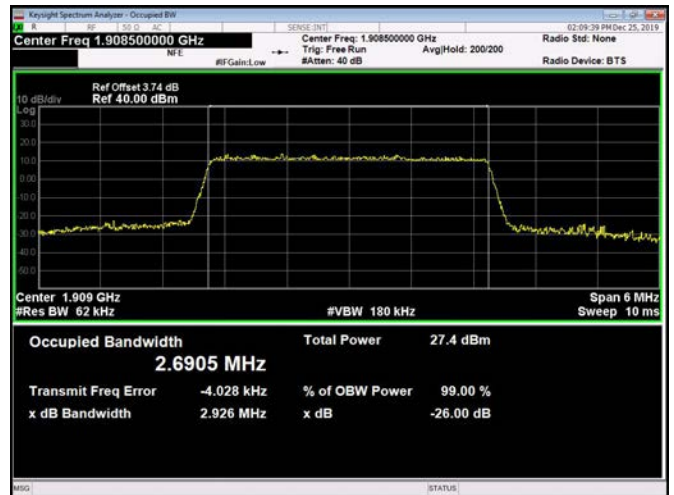
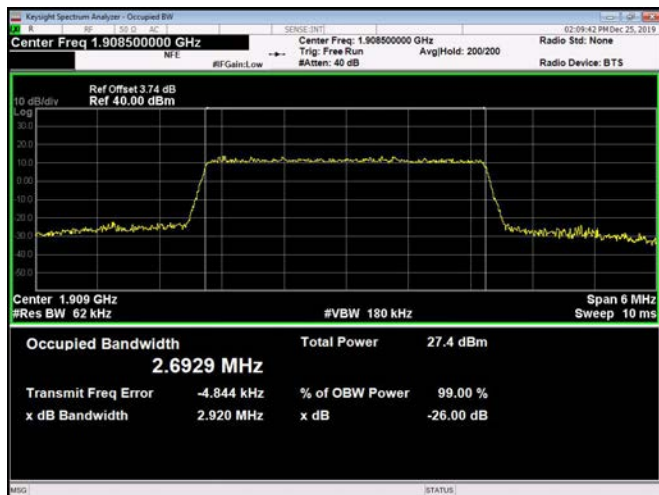


1.4MHz / QPSK / Middle Channel

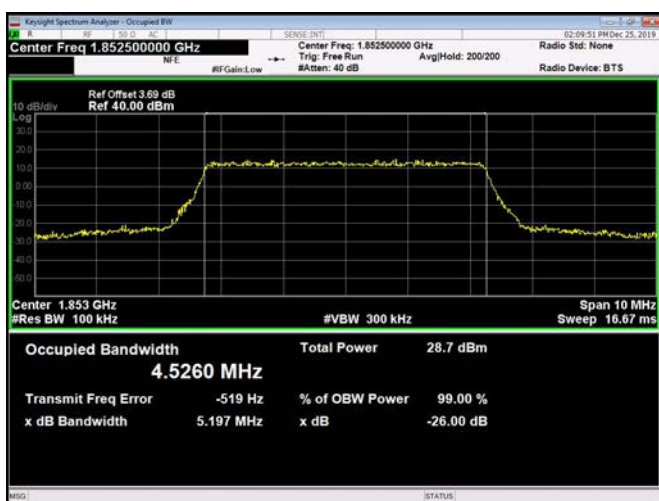


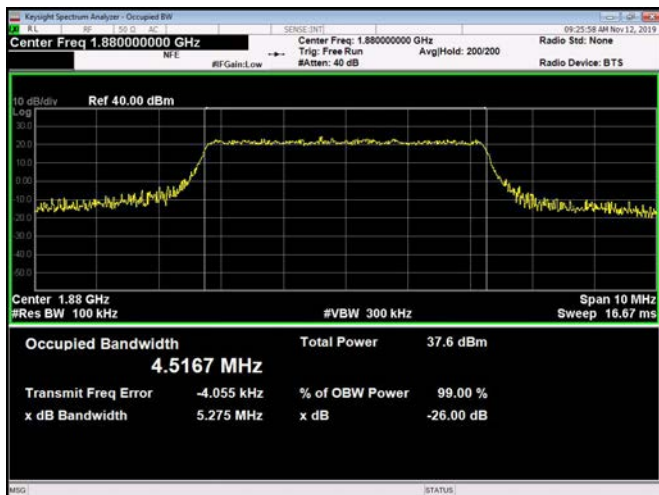
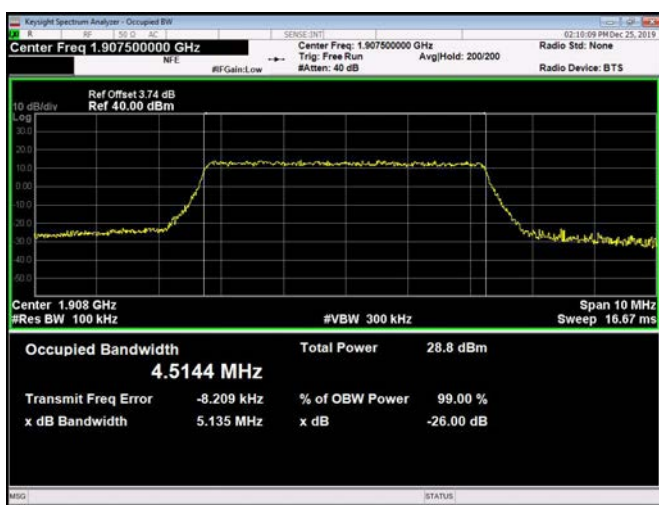
**1.4MHz / 16QAM / Middle Channel****1.4MHz / 64QAM / Middle Channel****1.4MHz / QPSK / High Channel****1.4MHz / 16QAM / High Channel****1.4MHz / 64QAM / High Channel**

**3MHz / QPSK / Low Channel****3MHz / 16QAM / Low Channel****3MHz / 64QAM / Low Channel****3MHz / QPSK / Middle Channel****3MHz / 16QAM / Middle Channel****3MHz / 64QAM / Middle Channel**

**3MHz / QPSK / High Channel****3MHz / 16QAM / High Channel****3MHz / 64QAM / High Channel**

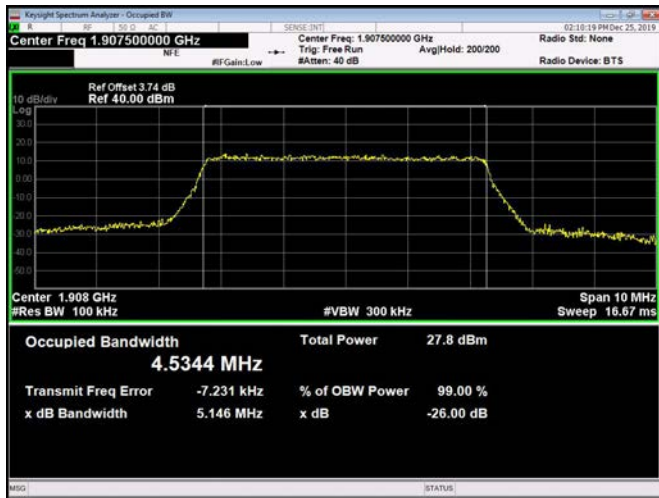
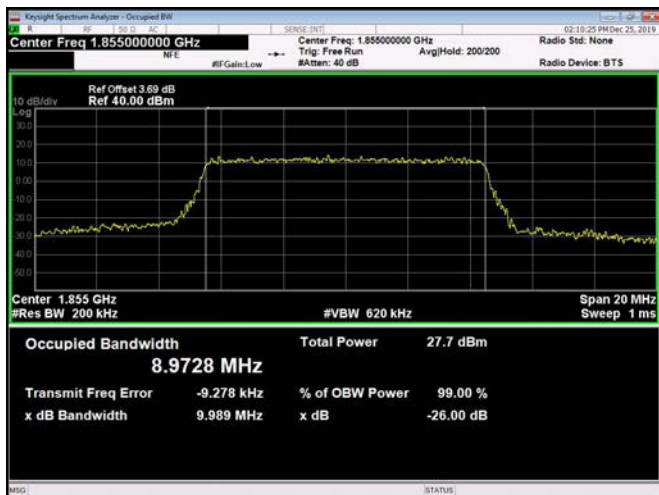
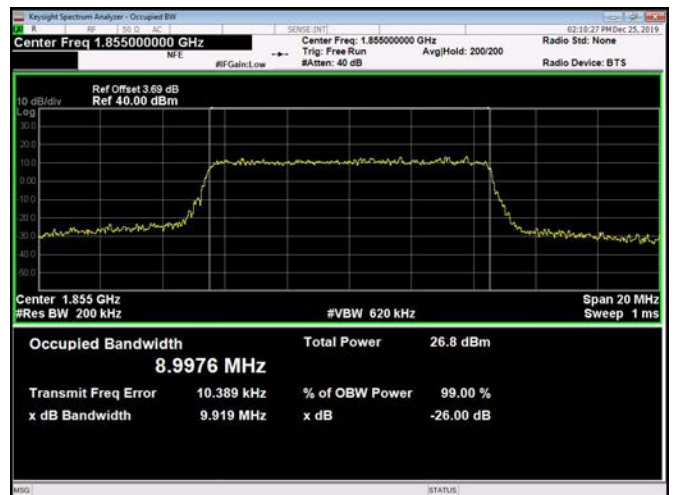
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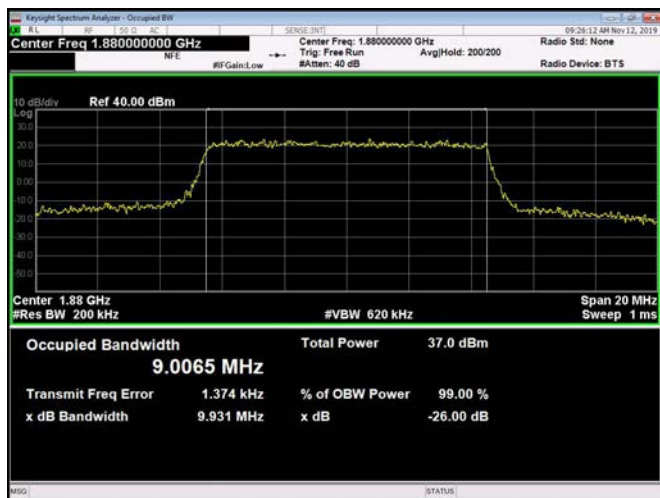
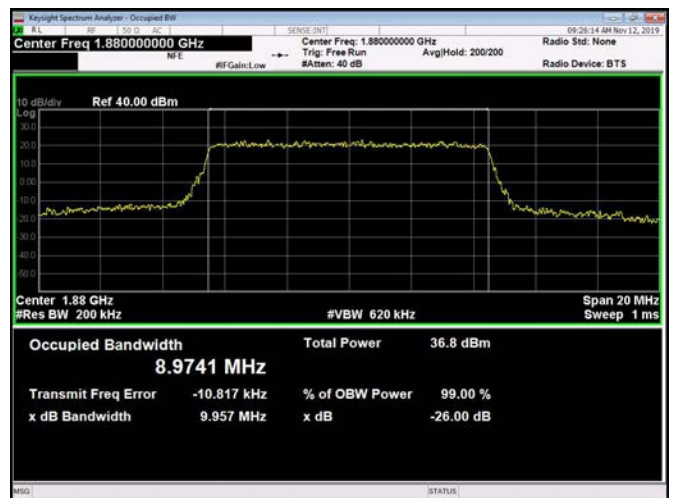
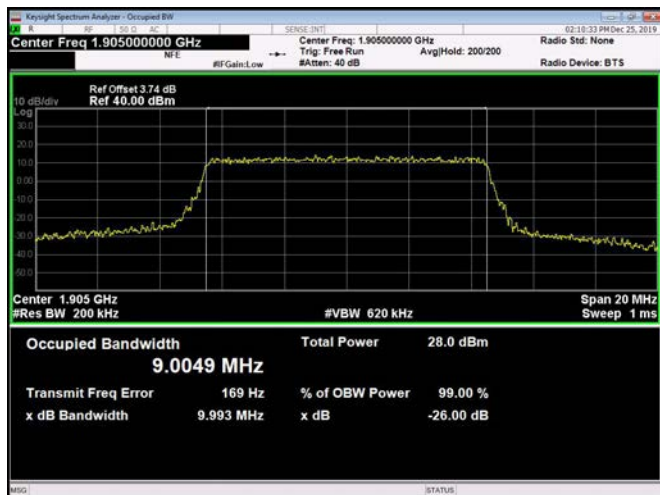
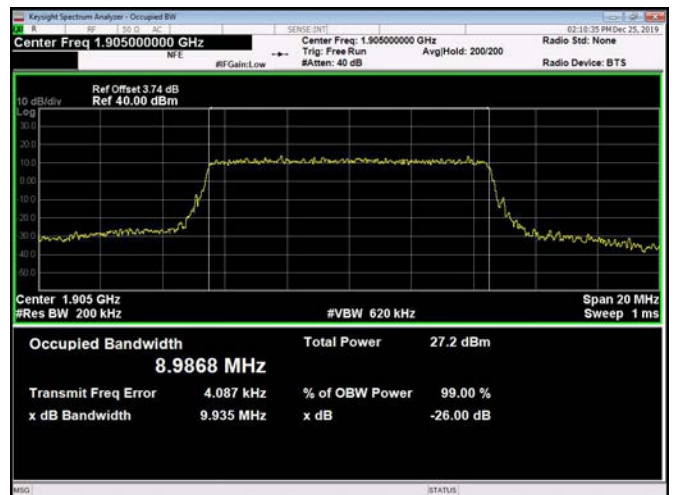
5MHz / QPSK / Low Channel**5MHz / 16QAM / Low Channel**

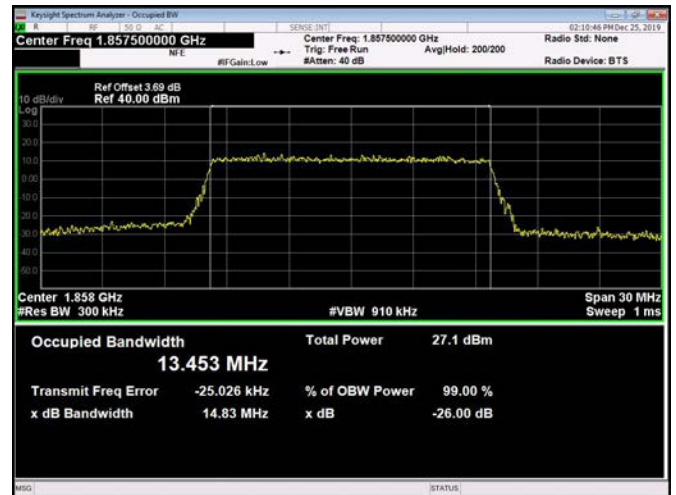
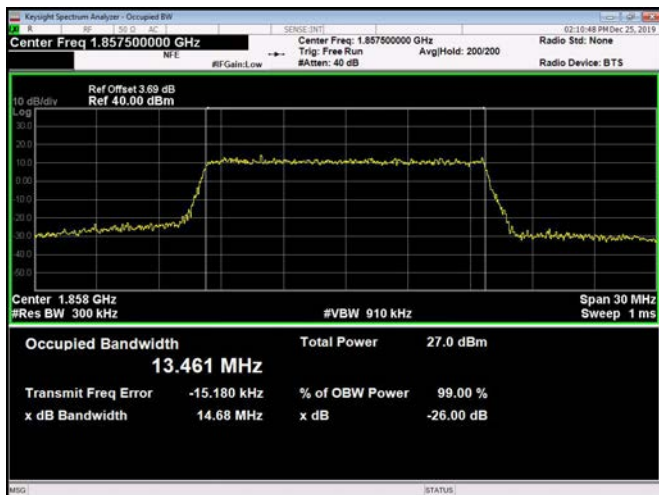
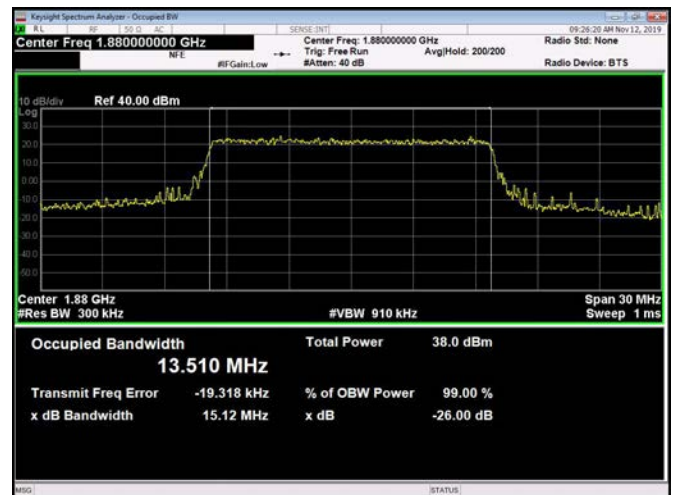
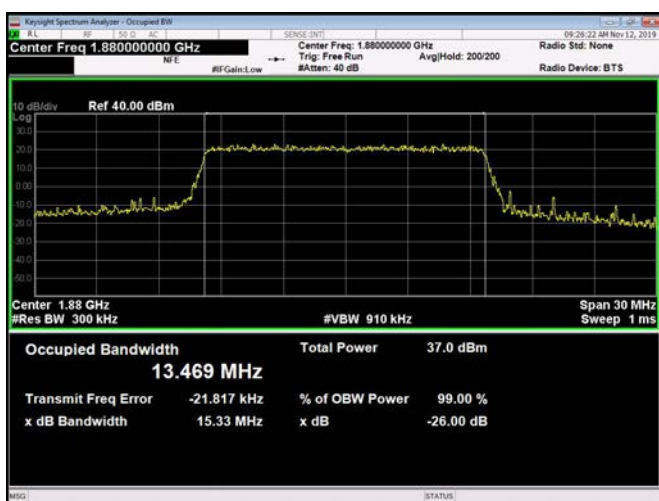
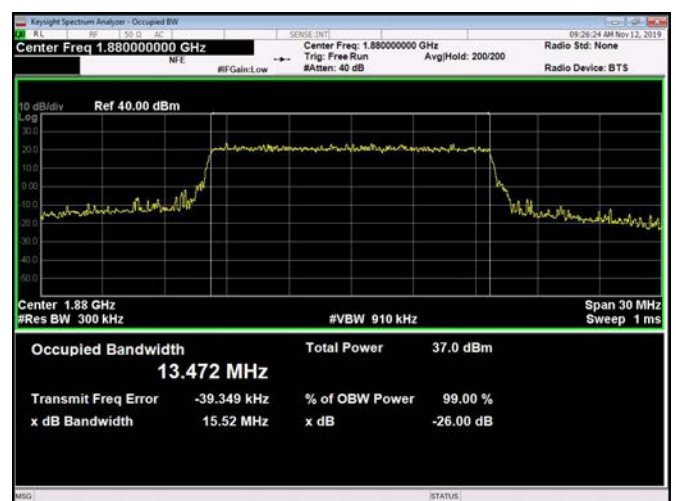
**5MHz / 64QAM / Low Channel****5MHz / QPSK / Middle Channel****5MHz / 16QAM / Middle Channel****5MHz / 64QAM / Middle Channel****5MHz / QPSK / High Channel****5MHz / 16QAM / High Channel**

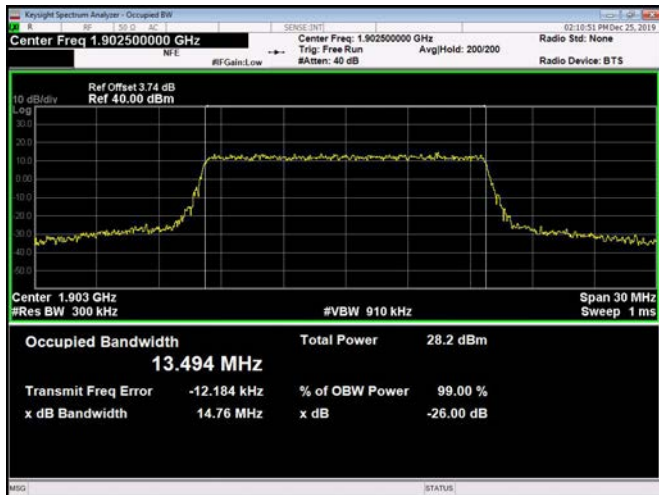
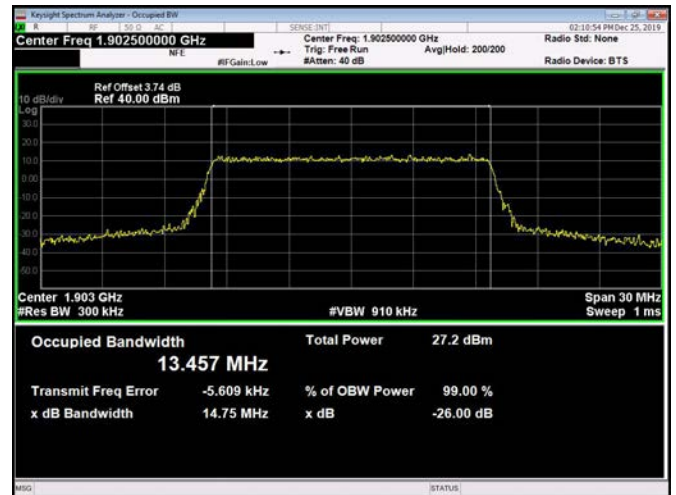
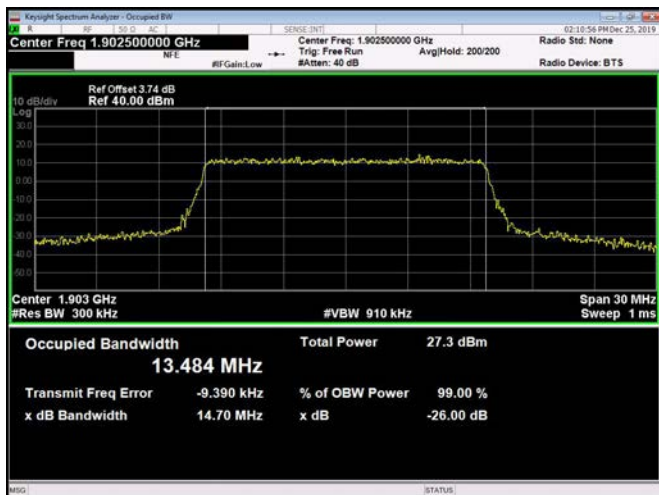
**5MHz / 64QAM / High Channel**

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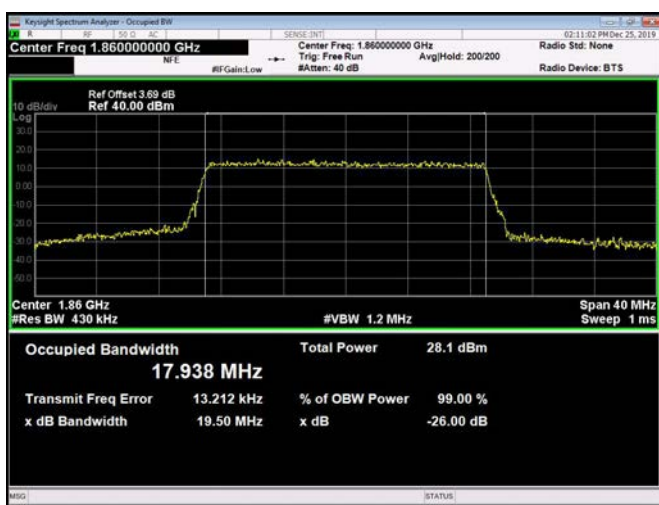
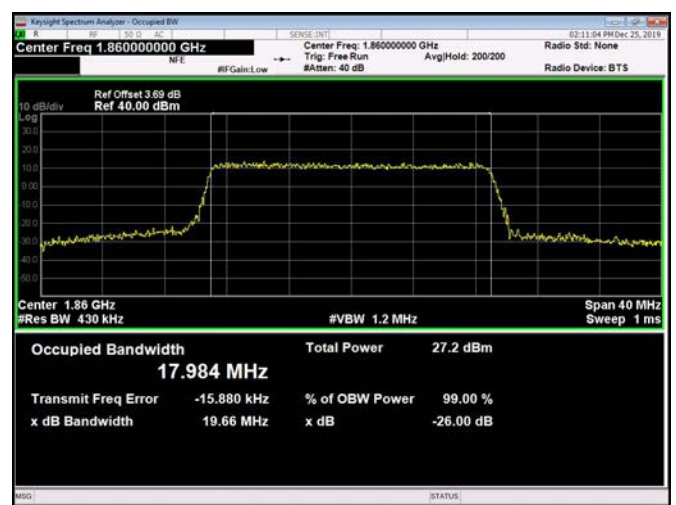
**10MHz / QPSK / Low Channel****10MHz / 16QAM / Low Channel****10MHz / 64QAM / Low Channel****10MHz / QPSK / Middle Channel**

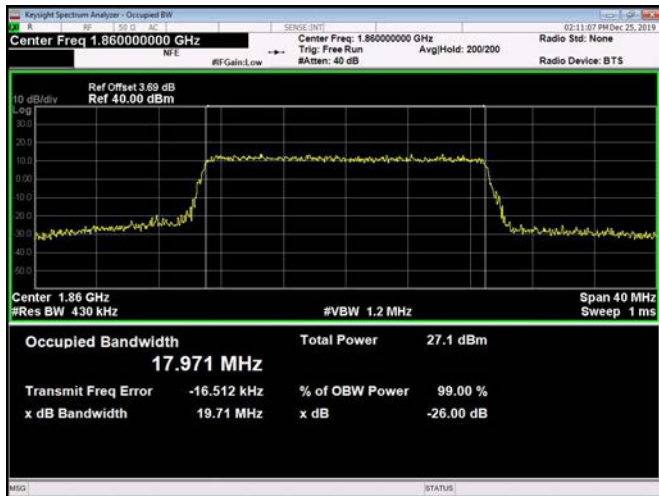
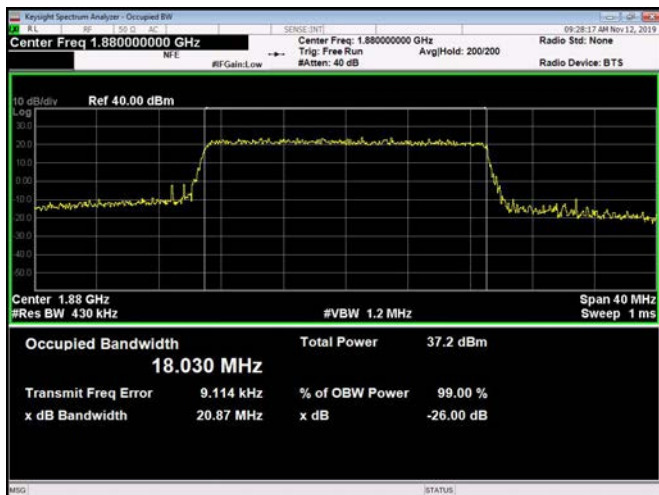
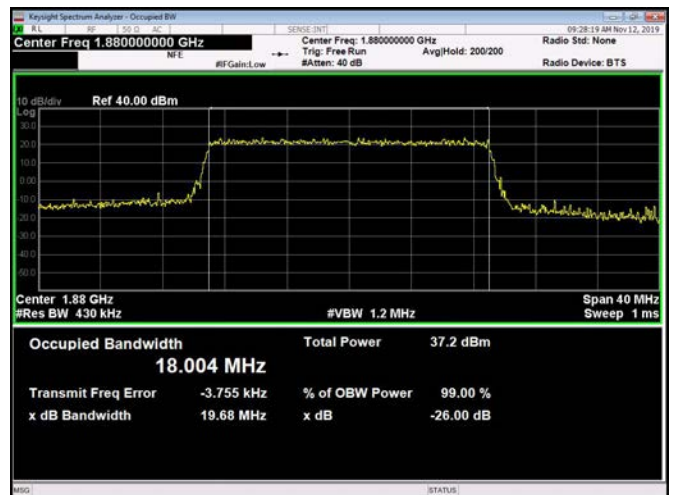
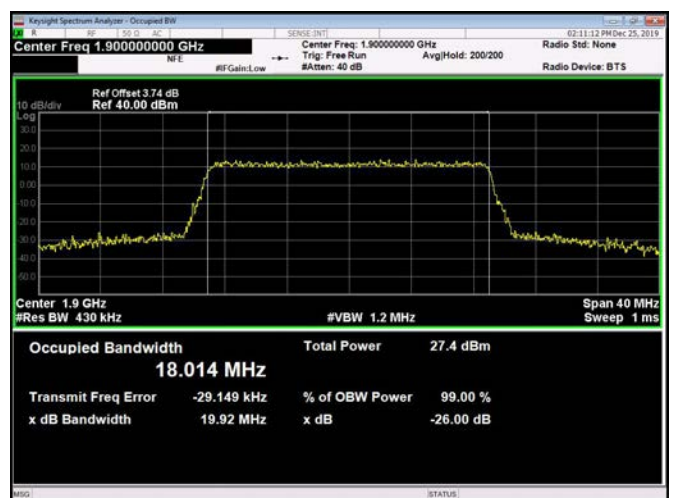
**10MHz / 16QAM / Middle Channel****10MHz / 64QAM / Middle Channel****10MHz / QPSK / High Channel****10MHz / 16QAM / High Channel****10MHz / 64QAM / High Channel**

**15MHz / QPSK / Low Channel****15MHz / 16QAM / Low Channel****15MHz / 64QAM / Low Channel****15MHz / QPSK / Middle Channel****15MHz / 16QAM / Middle Channel****15MHz / 64QAM / Middle Channel**

**15MHz / QPSK / High Channel****15MHz / 16QAM / High Channel****15MHz / 64QAM / High Channel**

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20MHz / QPSK / Low Channel**20MHz / 16QAM / Low Channel**

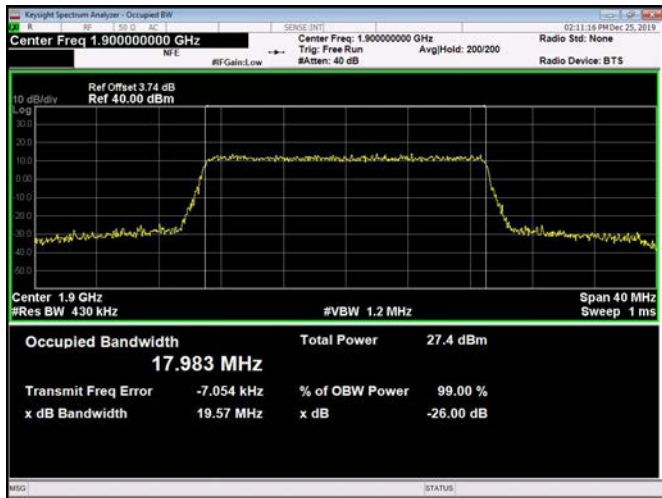
**20MHz / 64QAM / Low Channel****20MHz / QPSK / Middle Channel****20MHz / 16QAM / Middle Channel****20MHz / 64QAM / Middle Channel****20MHz / QPSK / High Channel****20MHz / 16QAM / High Channel**



REPORT No. : XM19080032W05

20MHz / 64QAM / High Channel

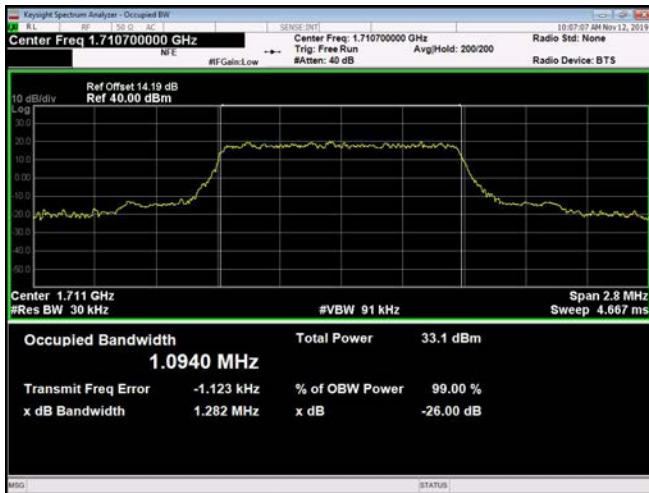
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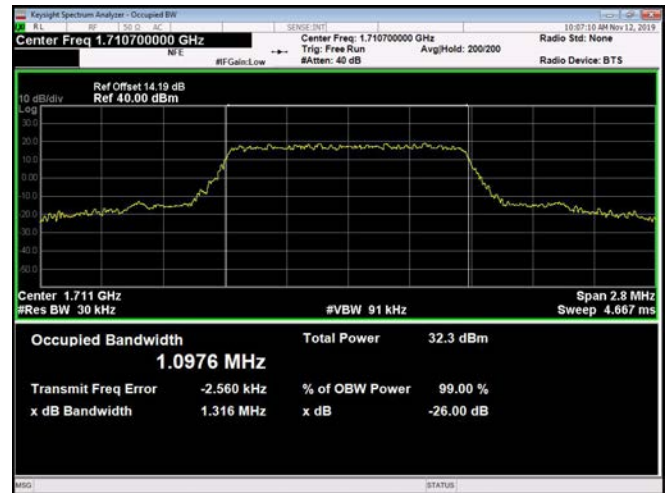


LTE Band 4 _ 99% Bandwidth & 26dB Bandwidth

1.4MHz / QPSK / Low Channel



1.4MHz / 16QAM / Low Channel

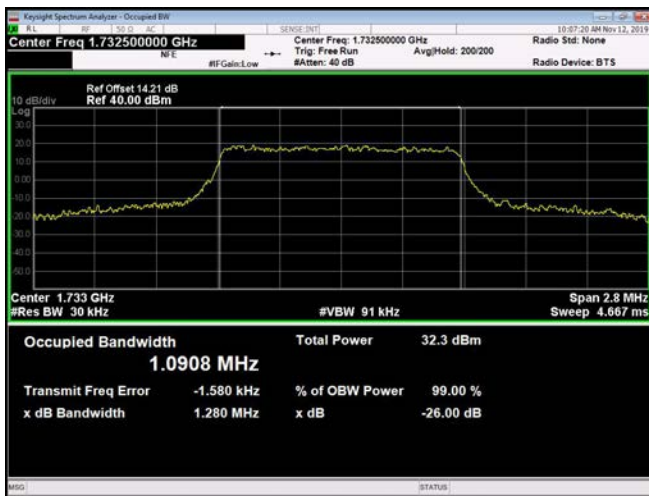
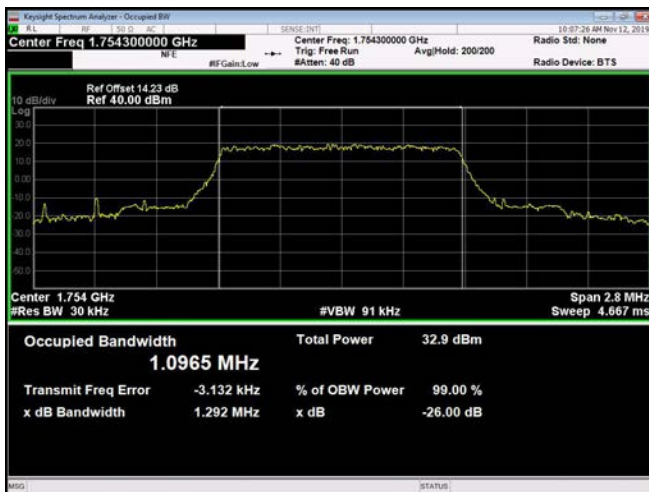
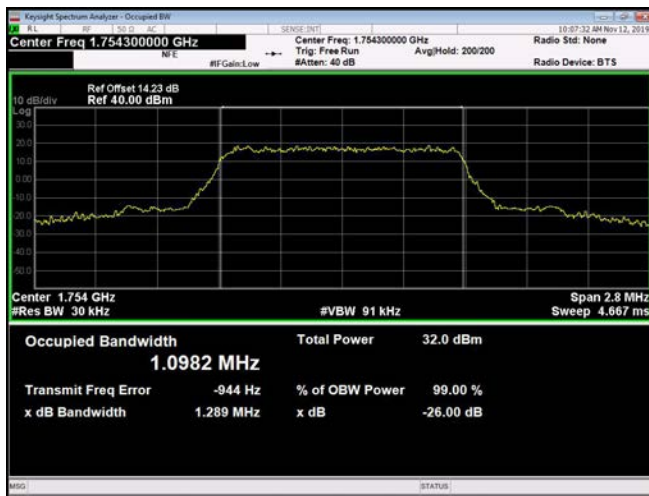


1.4MHz / 64QAM / Low Channel

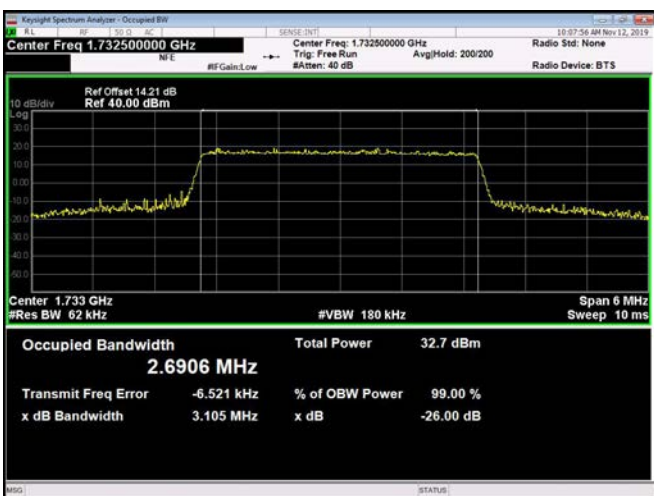
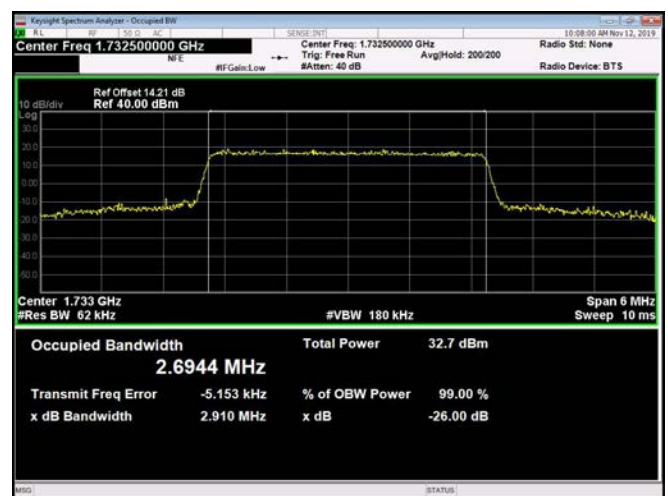


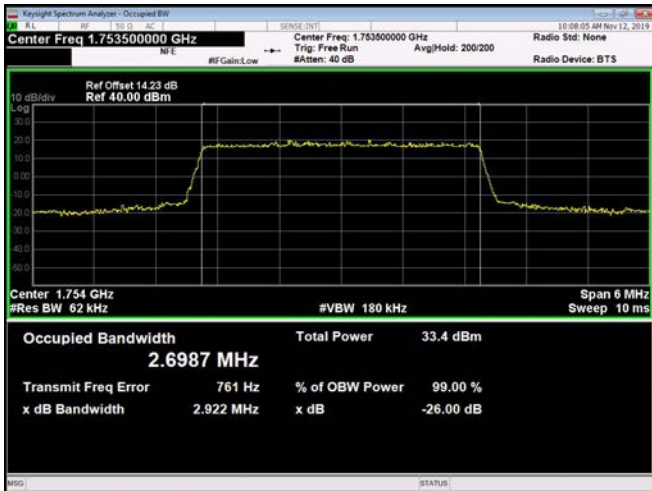
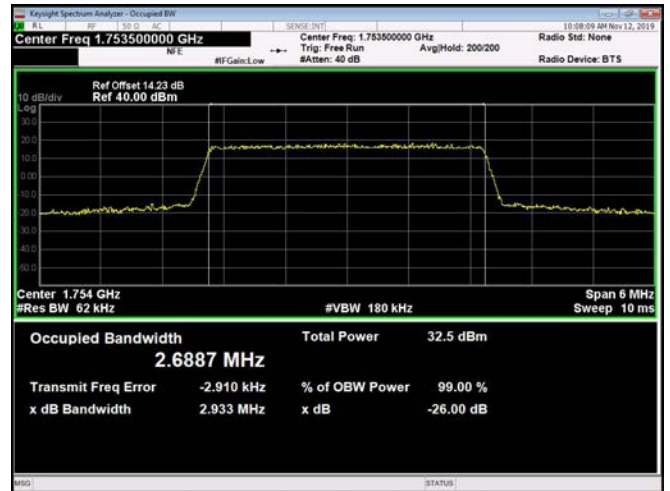
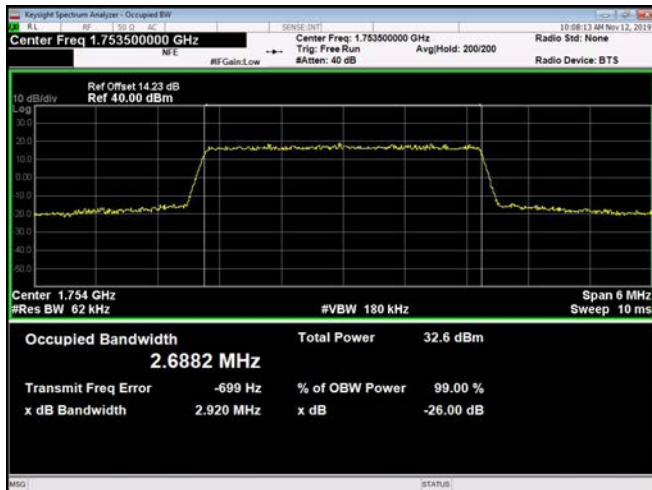
1.4MHz / QPSK / Middle Channel



**1.4MHz / 16QAM / Middle Channel****1.4MHz / 64QAM / Middle Channel****1.4MHz / QPSK / High Channel****1.4MHz / 16QAM / High Channel****1.4MHz / 64QAM / High Channel**

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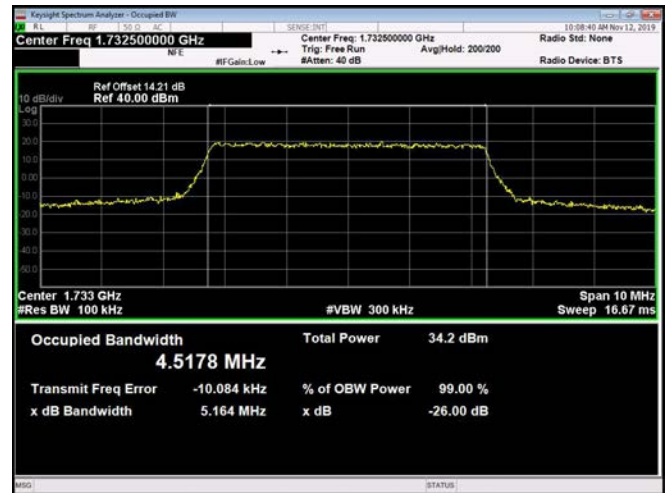
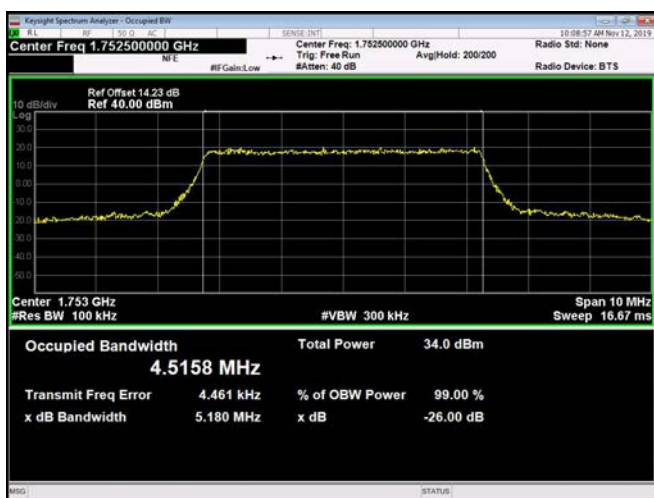
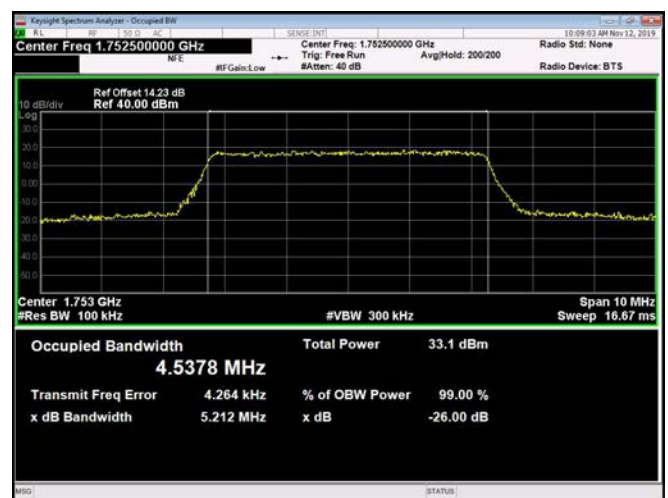
**3MHz / QPSK / Low Channel****3MHz / 16QAM / Low Channel****3MHz / 64QAM / Low Channel****3MHz / QPSK / Middle Channel****3MHz / 16QAM / Middle Channel****3MHz / 64QAM / Middle Channel**

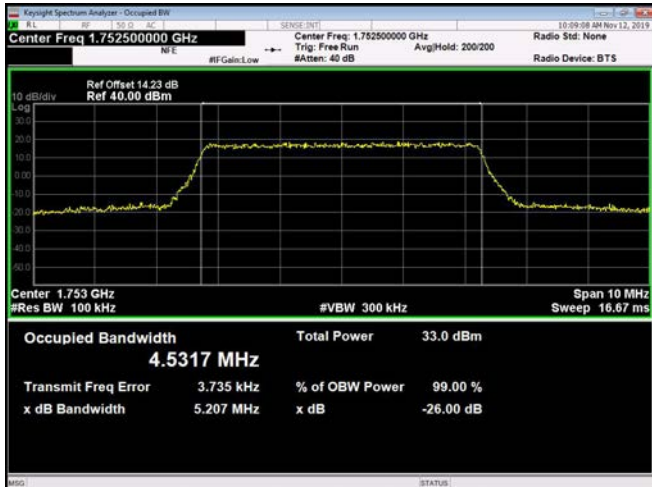
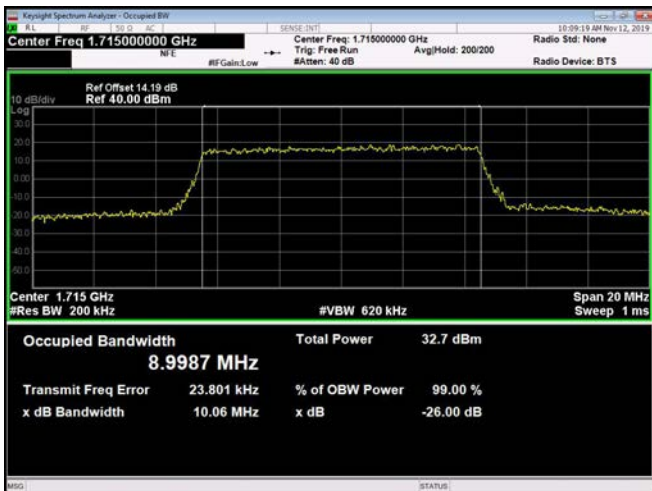
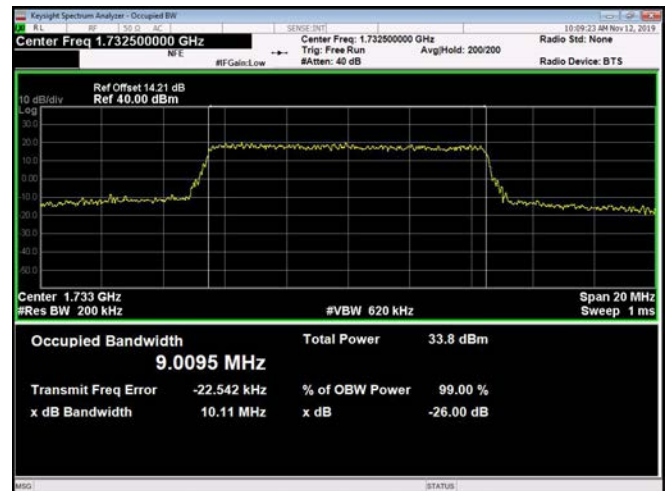
**3MHz / QPSK / High Channel****3MHz / 16QAM / High Channel****3MHz / 64QAM / High Channel**

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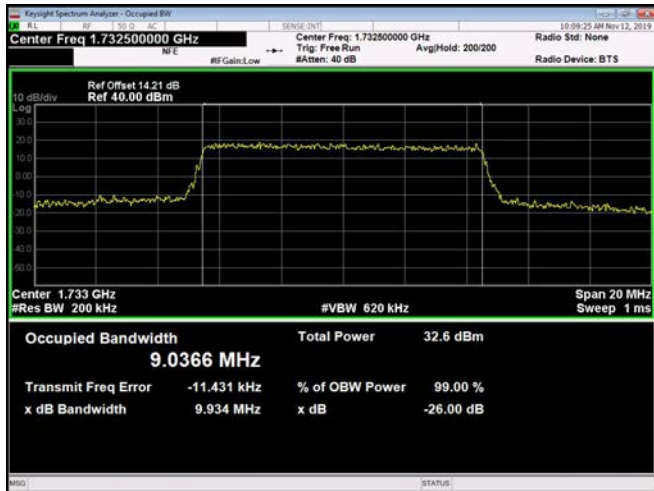
5MHz / QPSK / Low Channel**5MHz / 16QAM / Low Channel**

**5MHz / 64QAM / Low Channel****5MHz / QPSK / Middle Channel****5MHz / 16QAM / Middle Channel****5MHz / 64QAM / Middle Channel****5MHz / QPSK / High Channel****5MHz / 16QAM / High Channel**

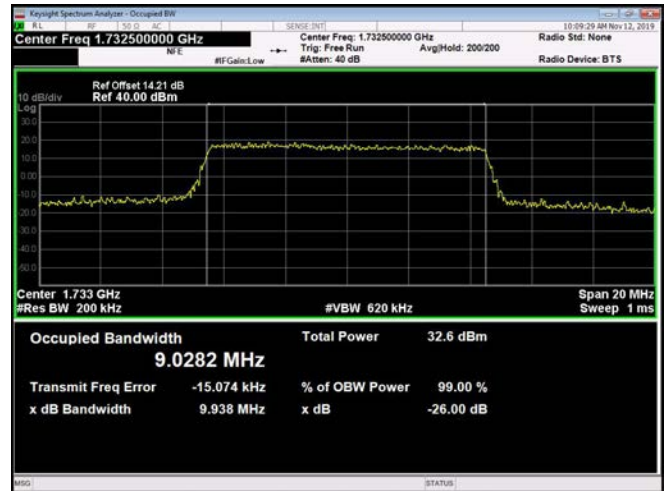
**5MHz / 16QAM / High Channel****10MHz / QPSK / Low Channel****10MHz / 16QAM / Low Channel****10MHz / 64QAM / Low Channel****10MHz / QPSK / Middle Channel**



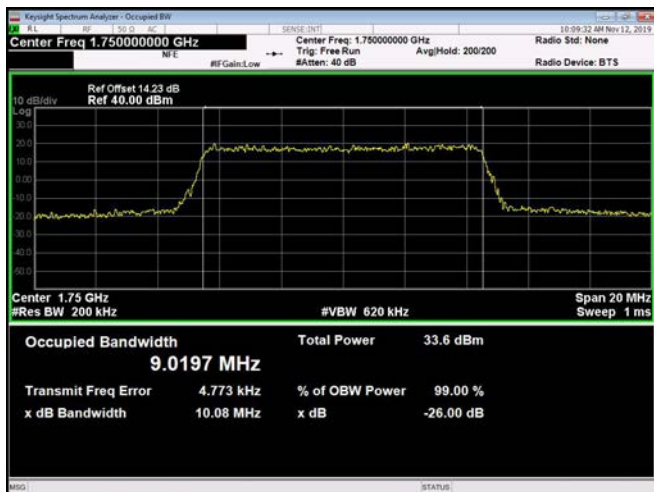
10MHz / 16QAM / Middle Channel



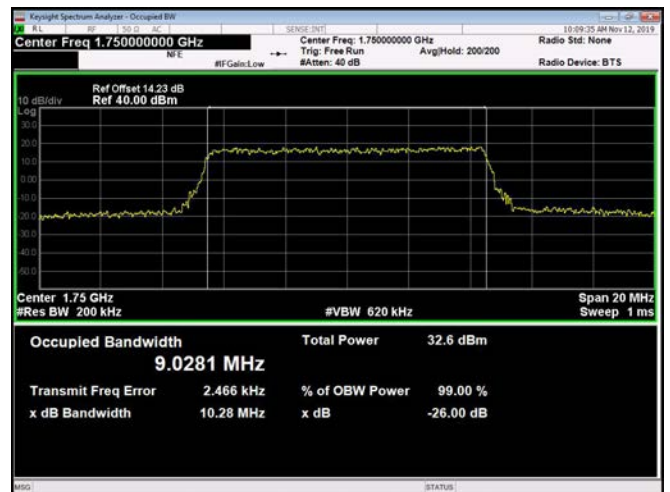
10MHz / 64QAM / Middle Channel



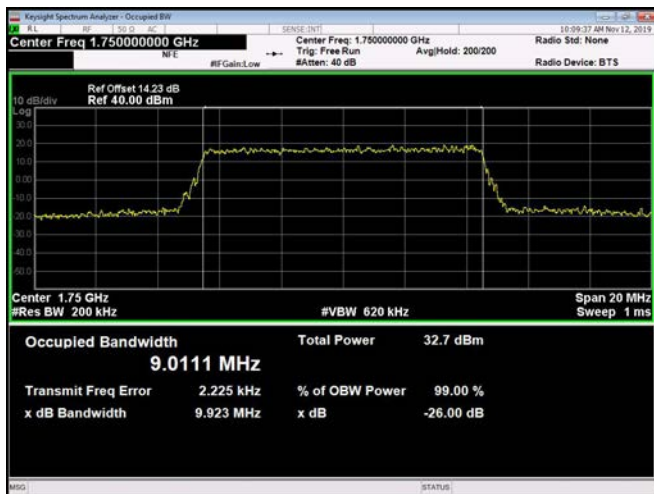
10MHz / QPSK / High Channel



10MHz / 16QAM / High Channel

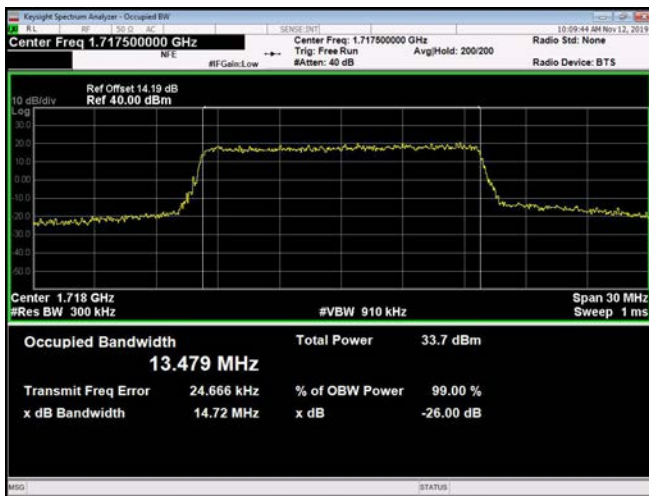


10MHz / 64QAM / High Channel





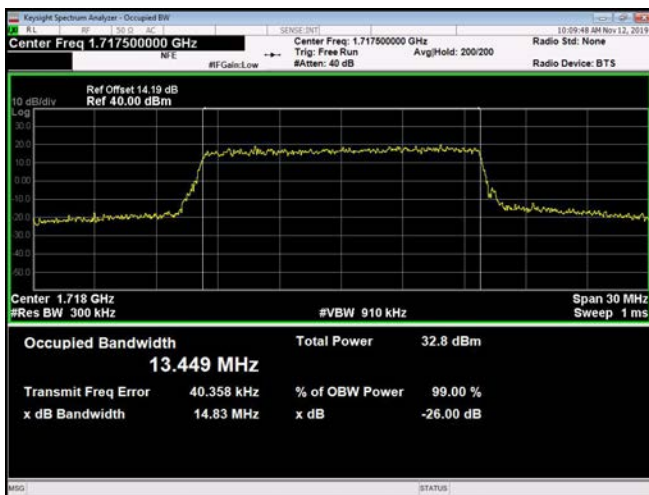
15MHz / QPSK / Low Channel



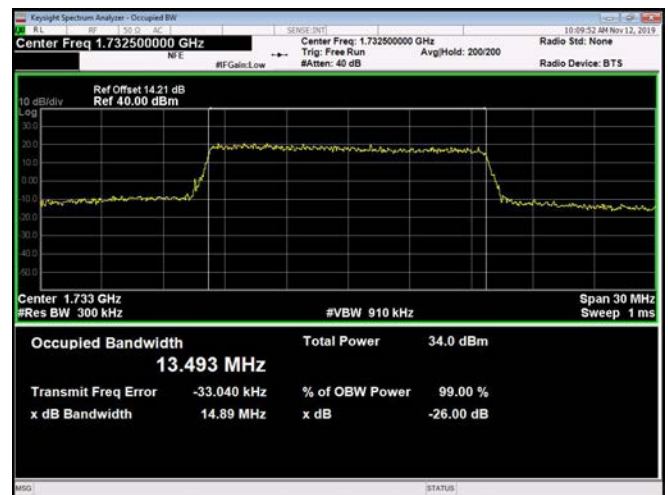
15MHz / 16QAM / Low Channel



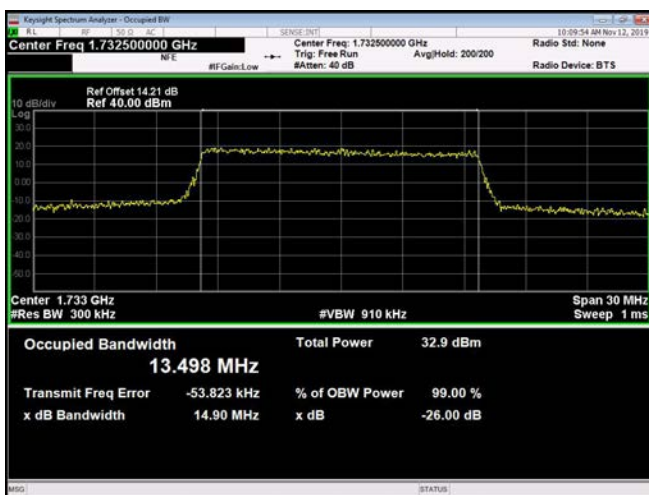
15MHz / 64QAM / Low Channel



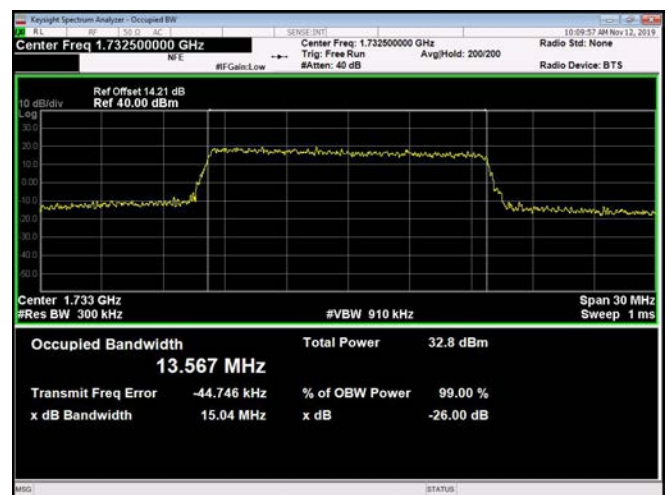
15MHz / QPSK / Middle Channel

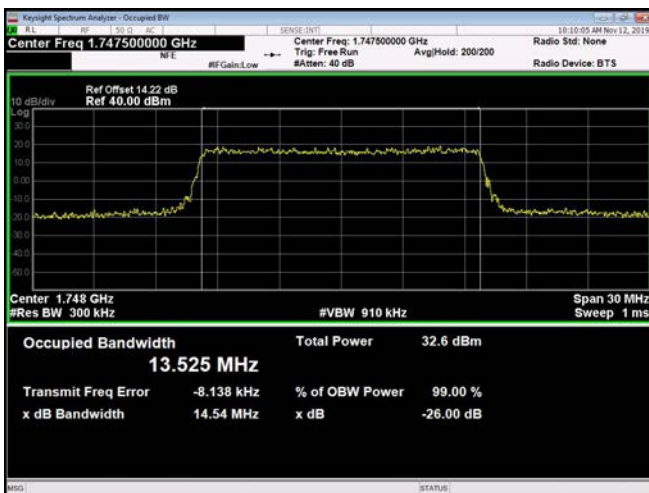


15MHz / 16QAM / Middle Channel



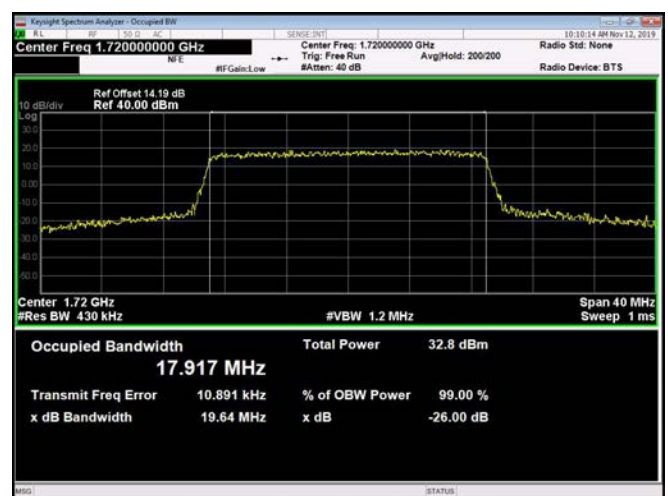
15MHz / 64QAM / Middle Channel

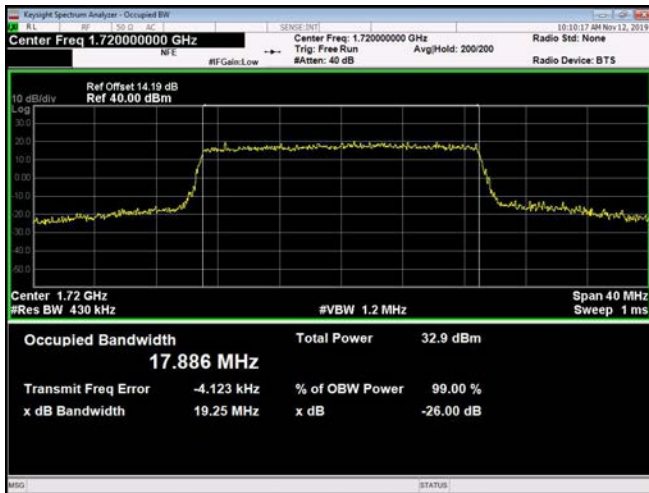
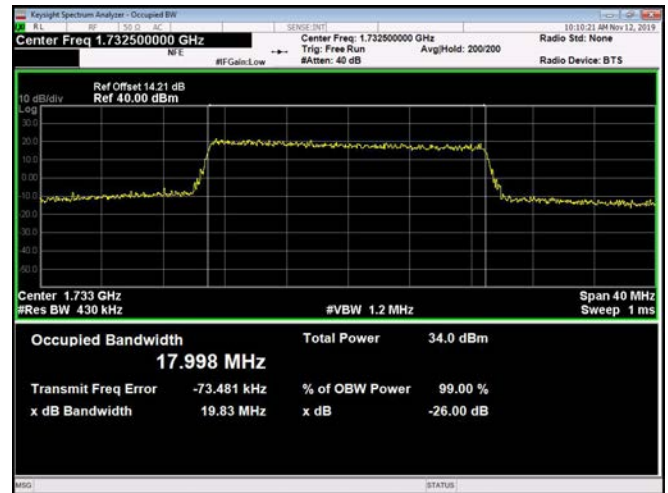
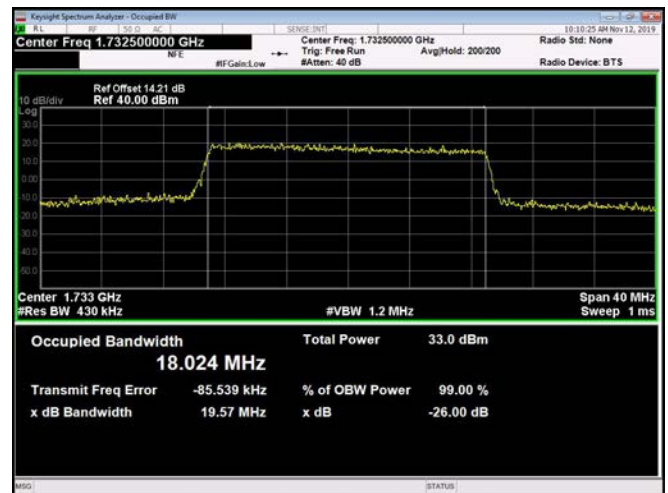


**15MHz / QPSK / High Channel****15MHz / 16QAM / High Channel****15MHz / 64QAM / High Channel**

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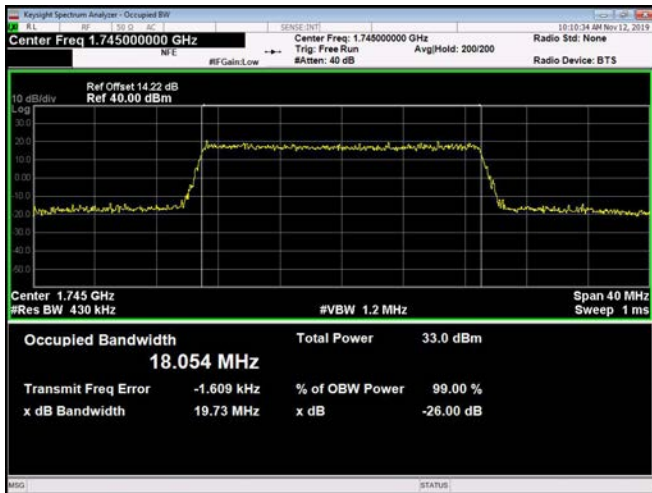
20MHz / QPSK / Low Channel**20MHz / 16QAM / Low Channel**

**20MHz / 64QAM / Low Channel****20MHz / QPSK / Middle Channel****20MHz / 16QAM / Middle Channel****20MHz / 64QAM / Middle Channel****20MHz / QPSK / High Channel****20MHz / 16QAM / High Channel**



20MHz / 64QAM / High Channel

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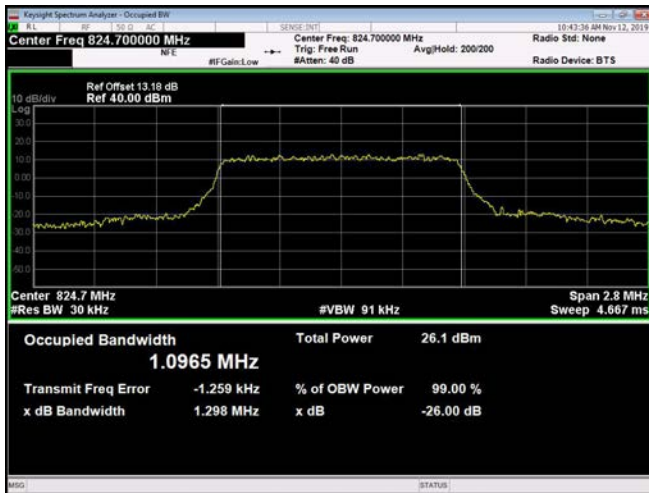


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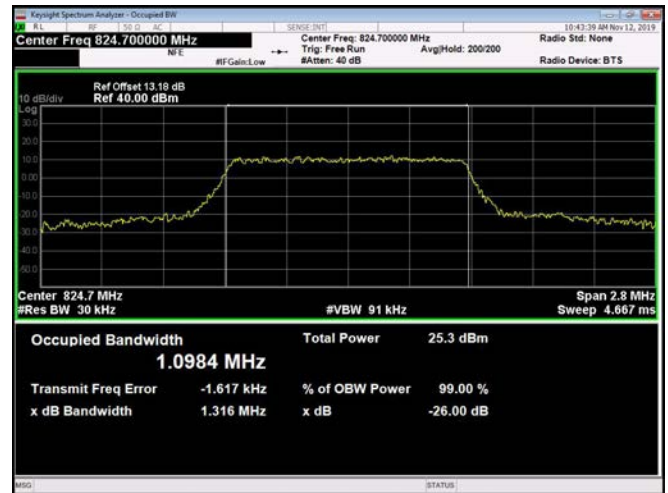


LTE Band 5 _ 99% Bandwidth & 26dB Bandwidth

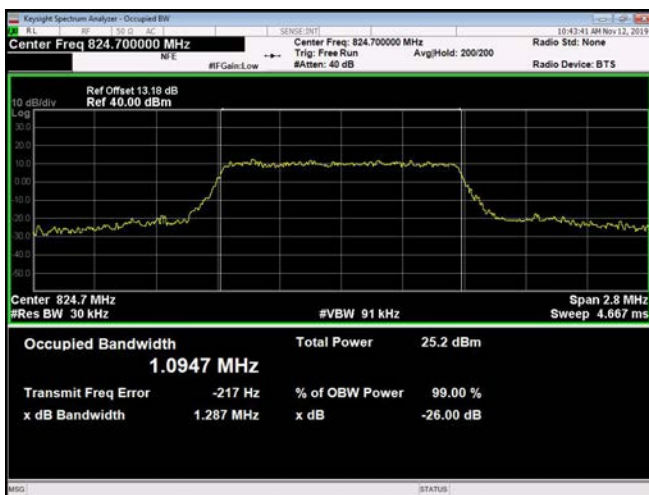
1.4MHz / QPSK / Low Channel



1.4MHz / 16QAM / Low Channel



1.4MHz / 64QAM / Low Channel

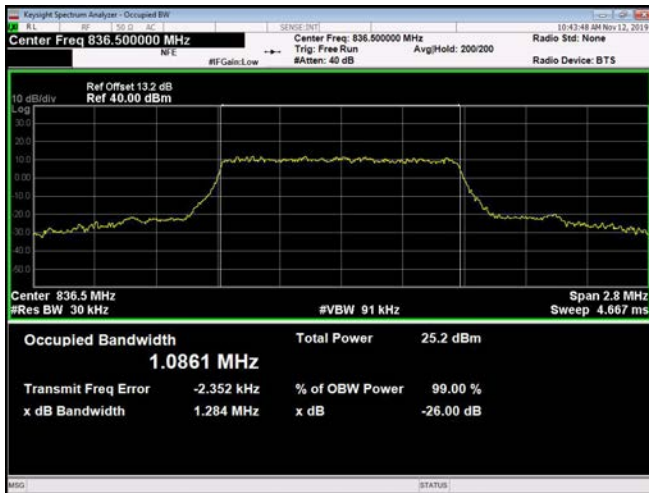


1.4MHz / QPSK / Middle Channel

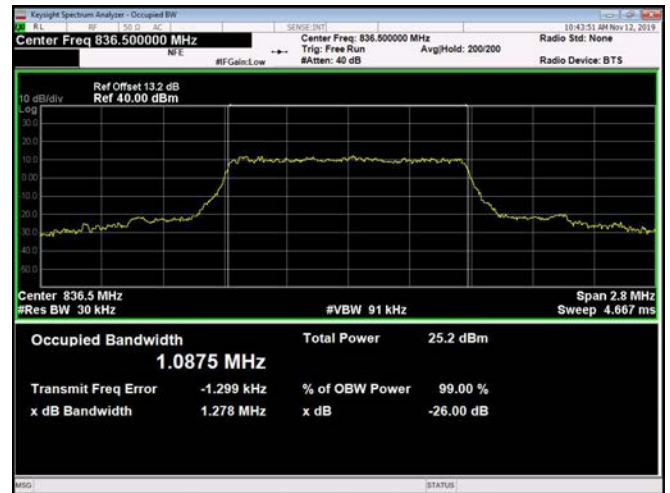




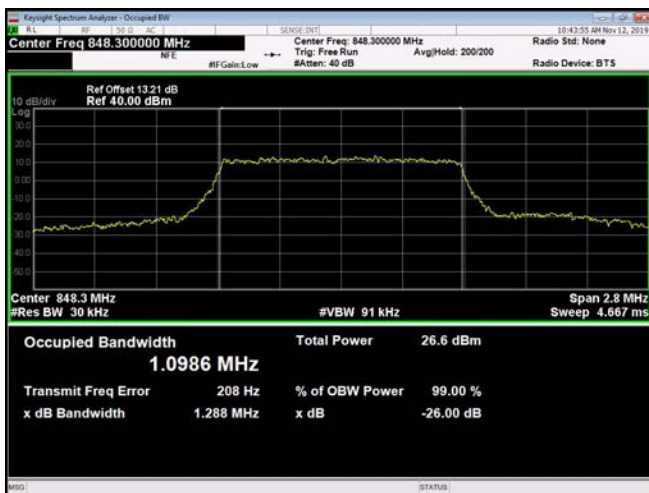
1.4MHz / 16QAM / Middle Channel



1.4MHz / 64QAM / Middle Channel



1.4MHz / QPSK / High Channel

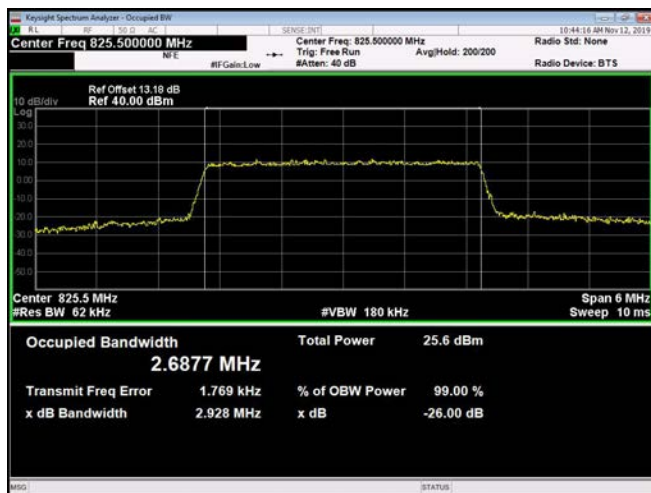
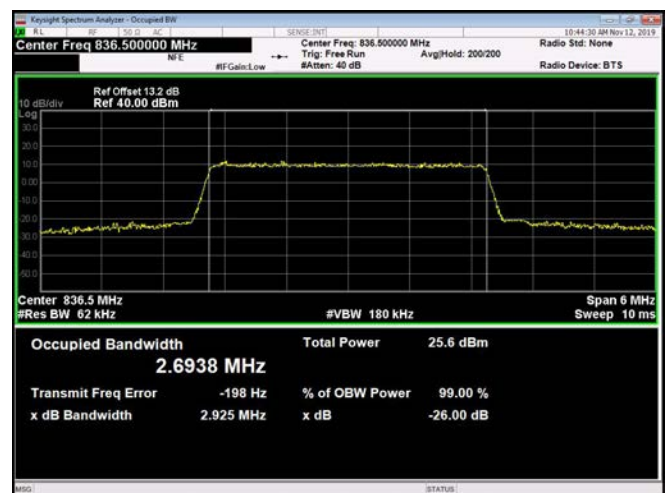


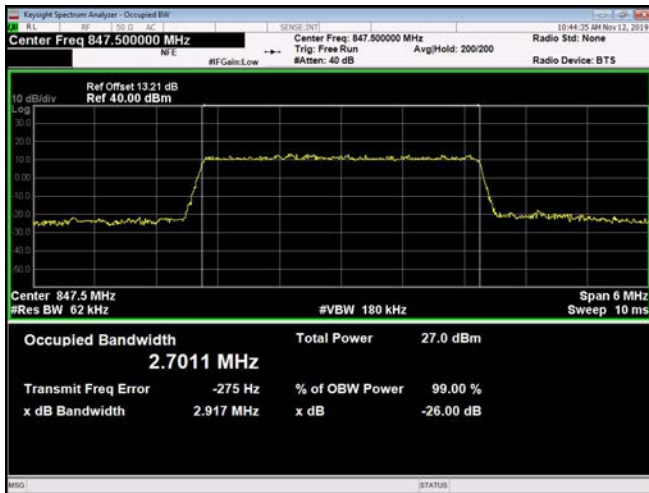
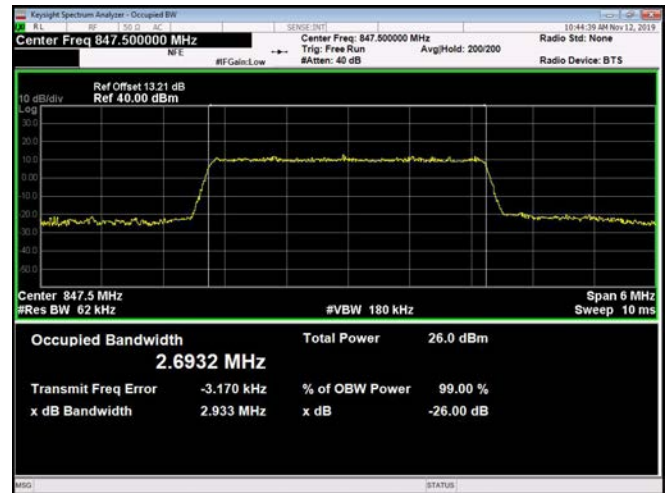
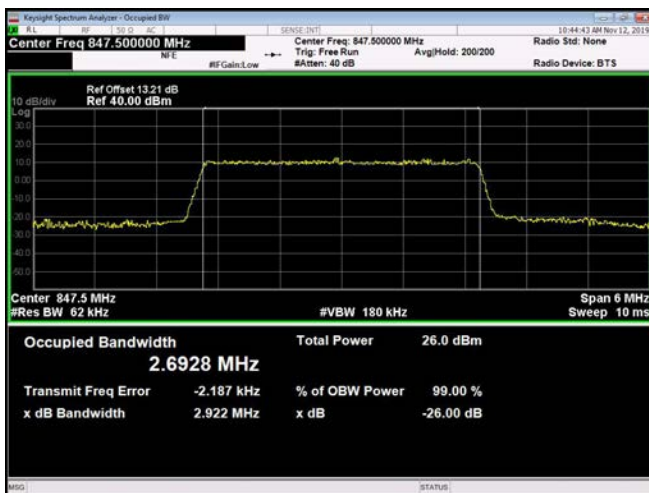
1.4MHz / 16QAM / High Channel



1.4MHz / 64QAM / High Channel



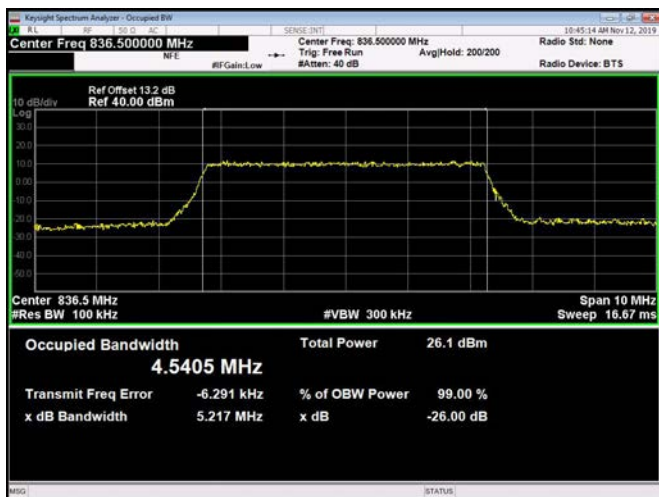
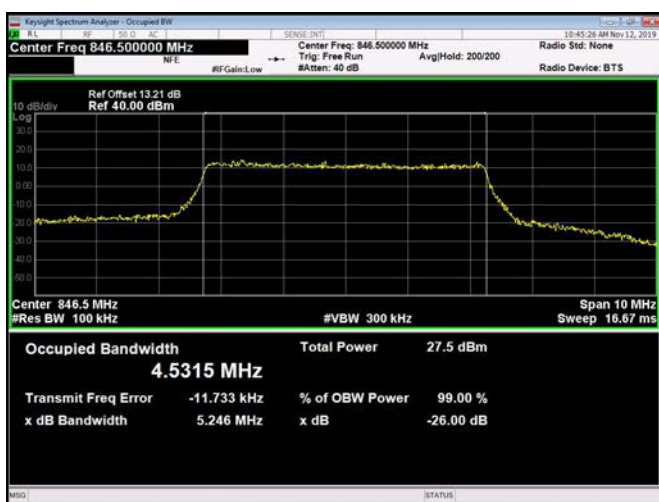
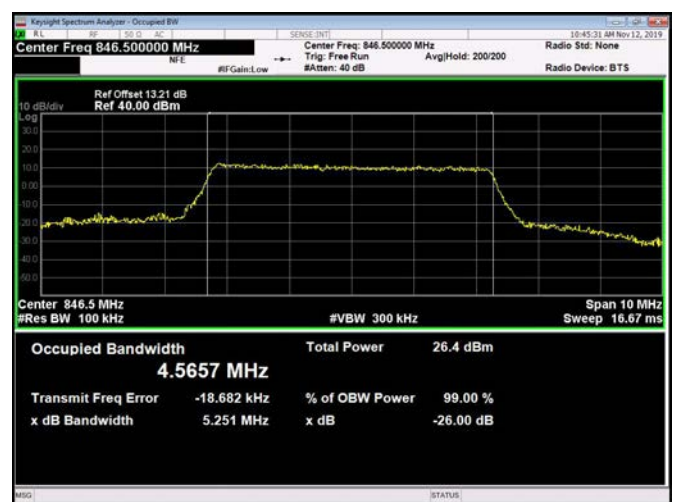
**3MHz / QPSK / Low Channel****3MHz / 16QAM / Low Channel****3MHz / 64QAM / Low Channel****3MHz / QPSK / Middle Channel****3MHz / 16QAM / Middle Channel****3MHz / 64QAM / Middle Channel**

**3MHz / QPSK / High Channel****3MHz / 16QAM / High Channel****3MHz / 64QAM / High Channel**

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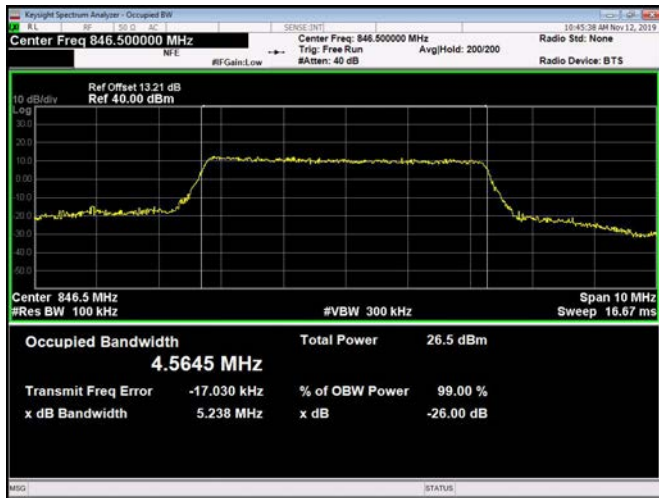
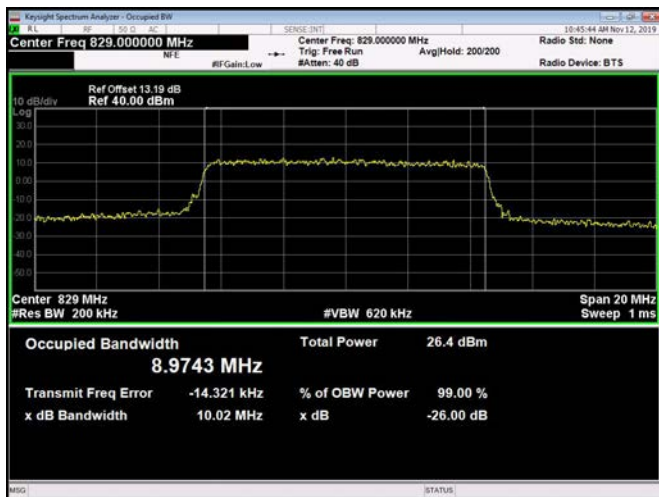
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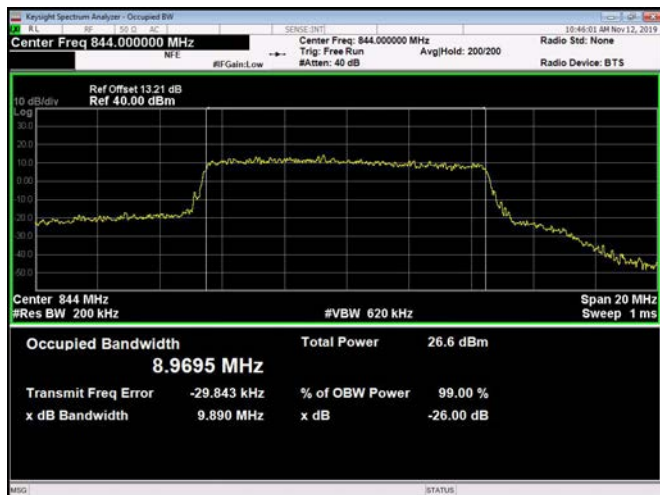
5MHz / QPSK / Low Channel**5MHz / 16QAM / Low Channel**

**5MHz / 64QAM / Low Channel****5MHz / QPSK / Middle Channel****5MHz / 16QAM / Middle Channel****5MHz / 64QAM / Middle Channel****5MHz / QPSK / High Channel****5MHz / 16QAM / High Channel**

**5MHz / 64QAM / High Channel**

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**10MHz / QPSK / Low Channel****10MHz / 16QAM / Low Channel****10MHz / 64QAM / Low Channel****10MHz / QPSK / Middle Channel**

**10MHz / 16QAM / Middle Channel****10MHz / 64QAM / Middle Channel****10MHz / QPSK / High Channel****10MHz / 16QAM / High Channel****10MHz / 64QAM / High Channel**

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