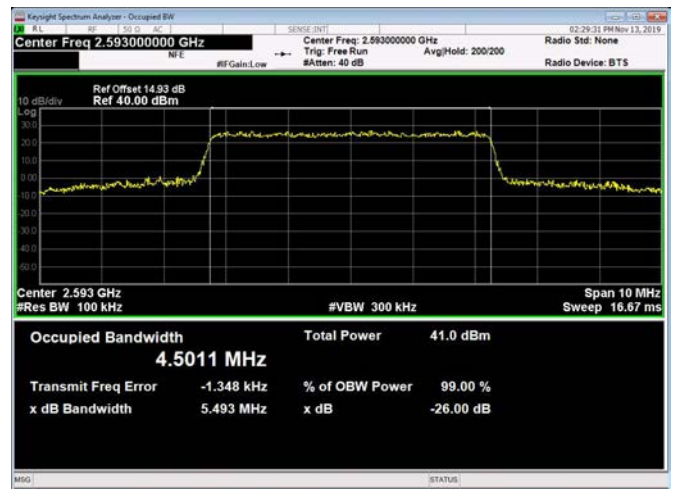
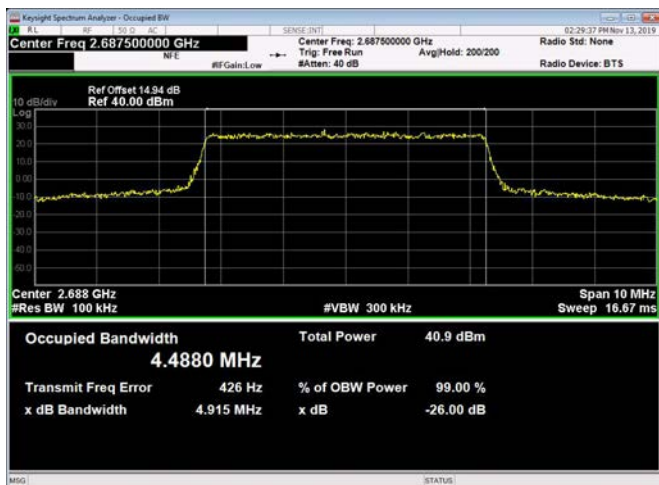
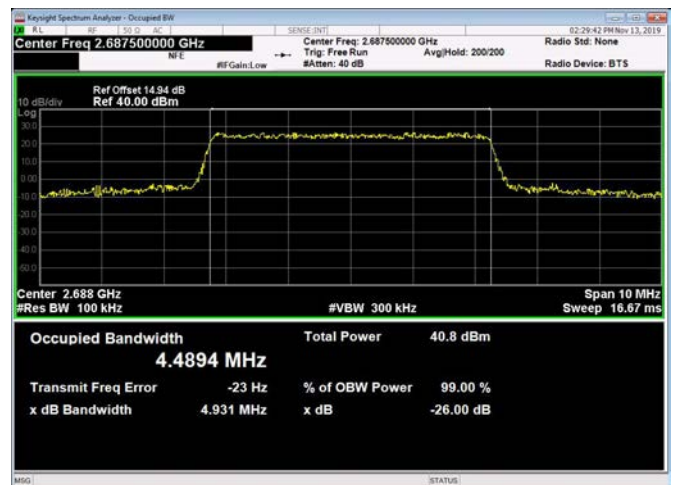
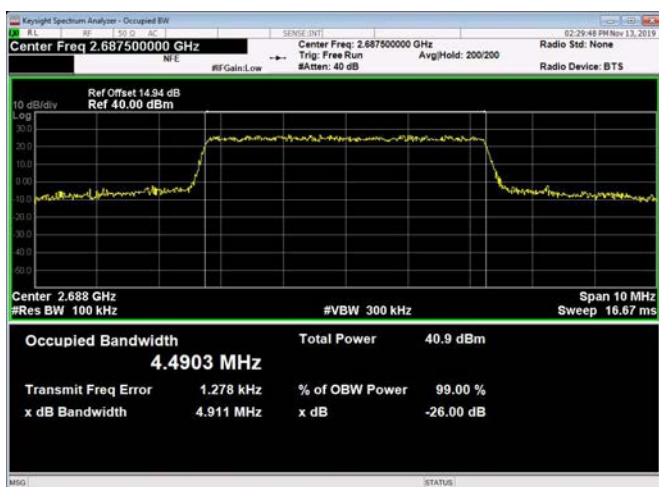
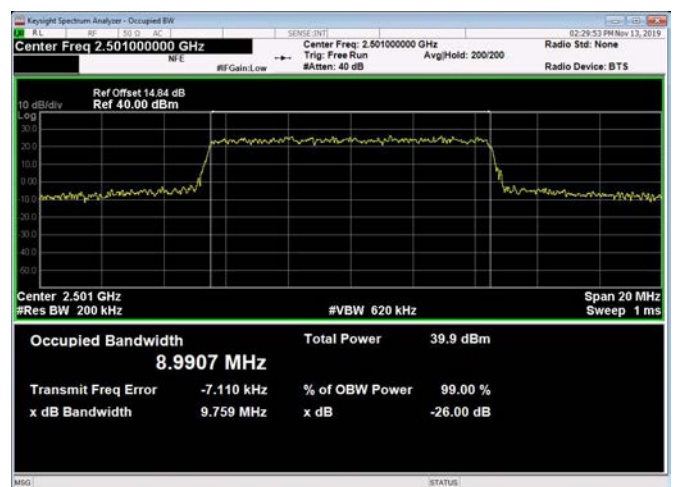
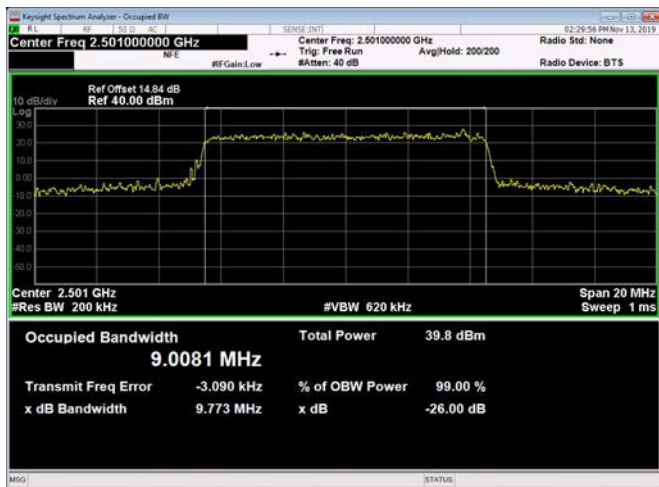


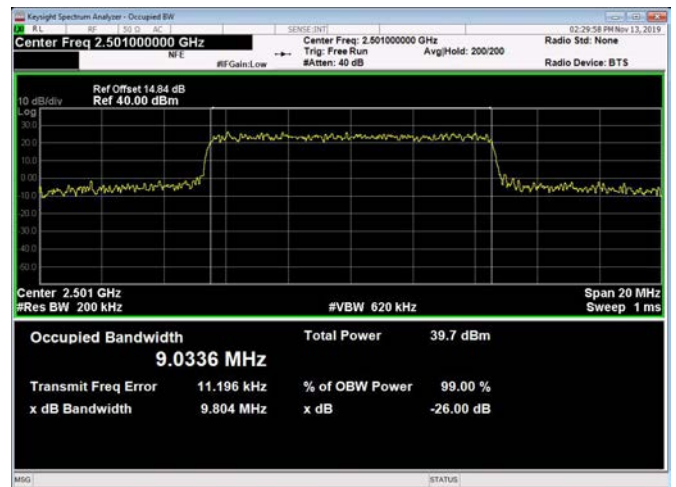
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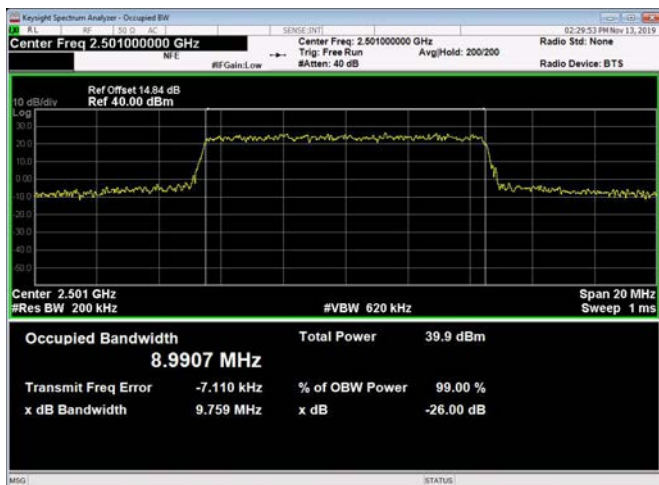
10MHz / 16QAM / Low Channel



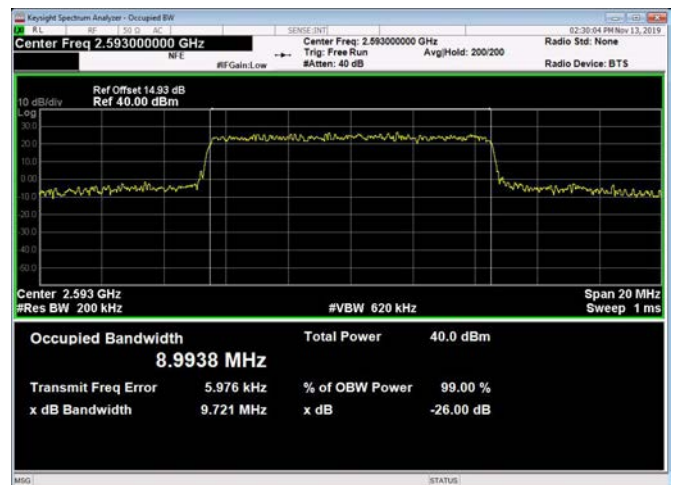
10MHz / 64QAM / Low Channel



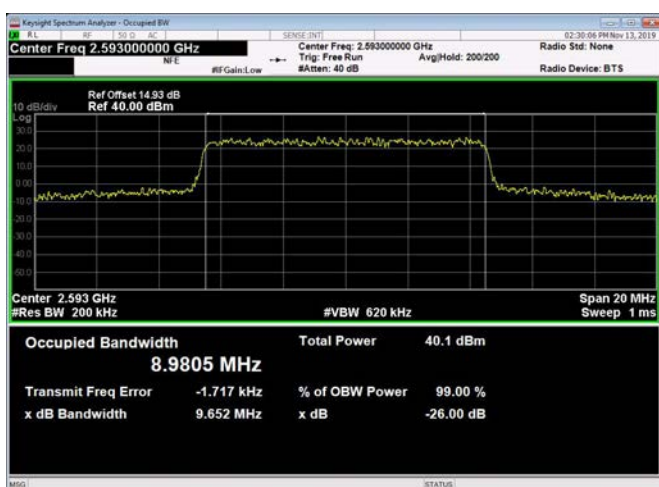
10MHz / QPSK / Middle Channel



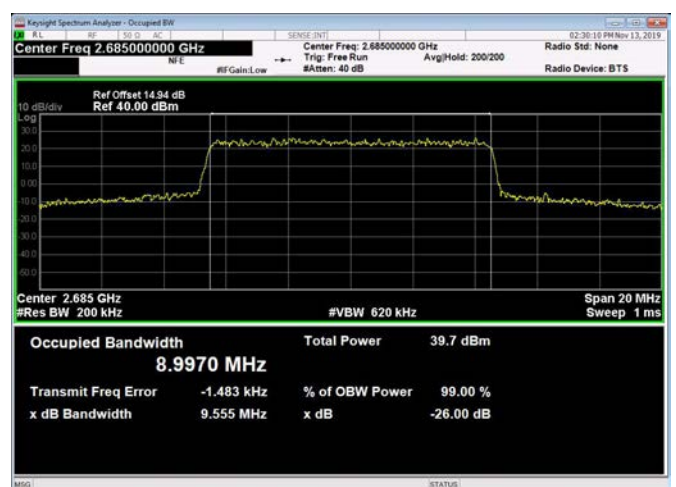
10MHz / 16QAM / Middle Channel

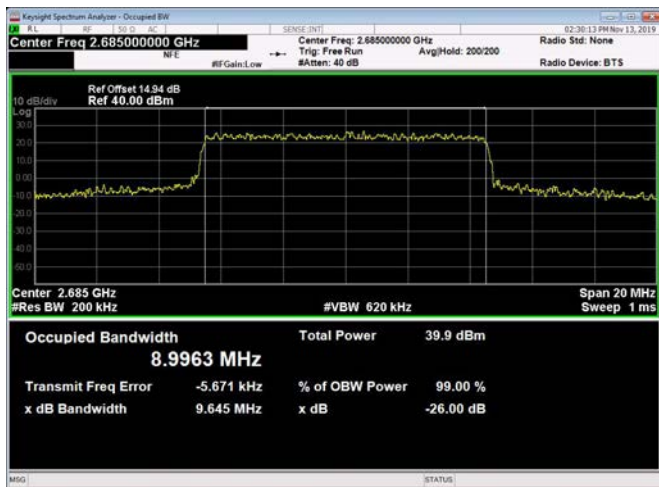
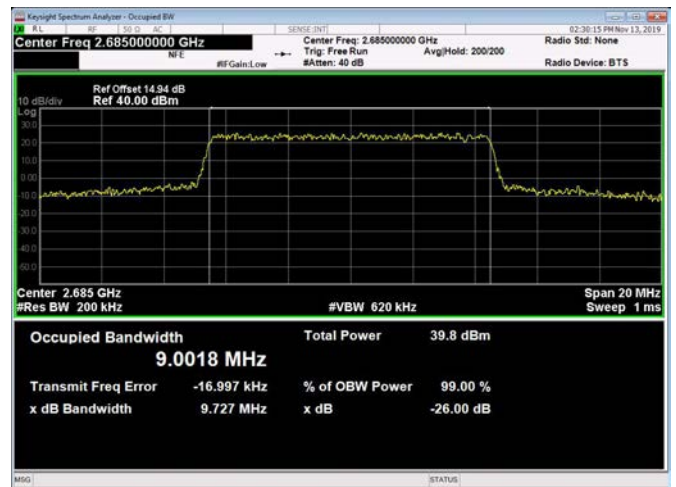
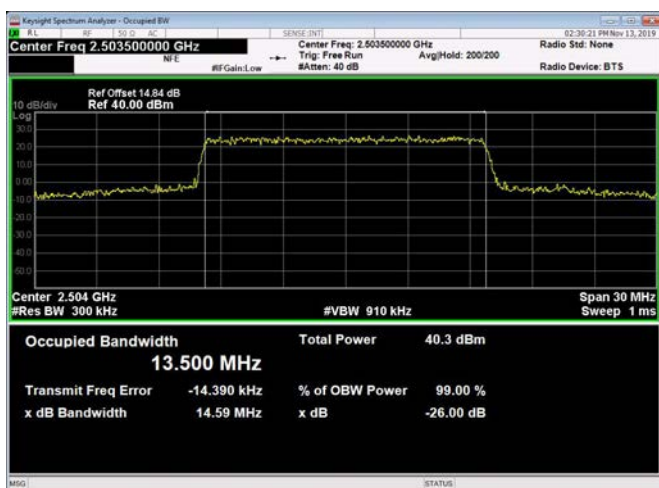
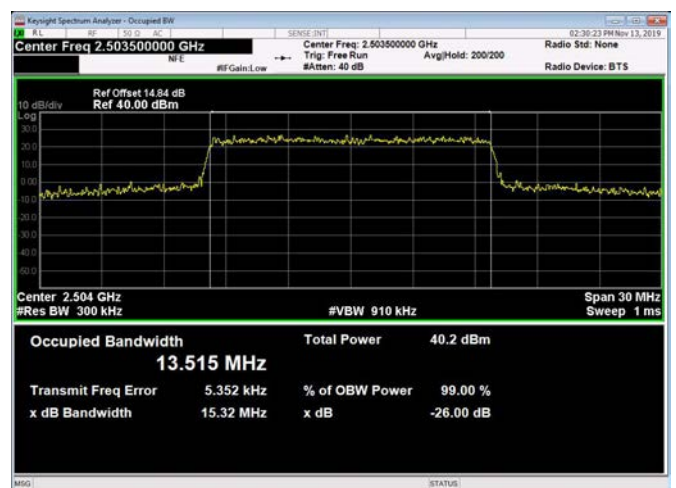
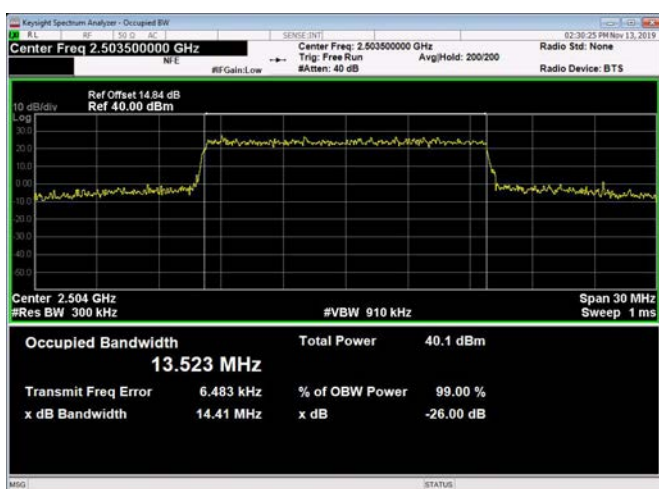
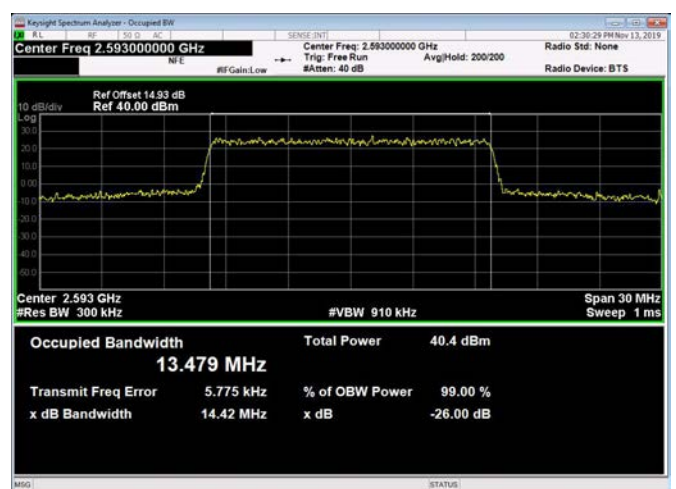


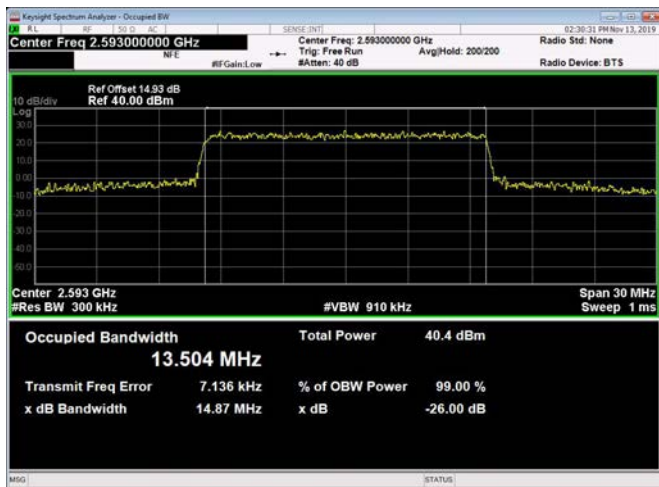
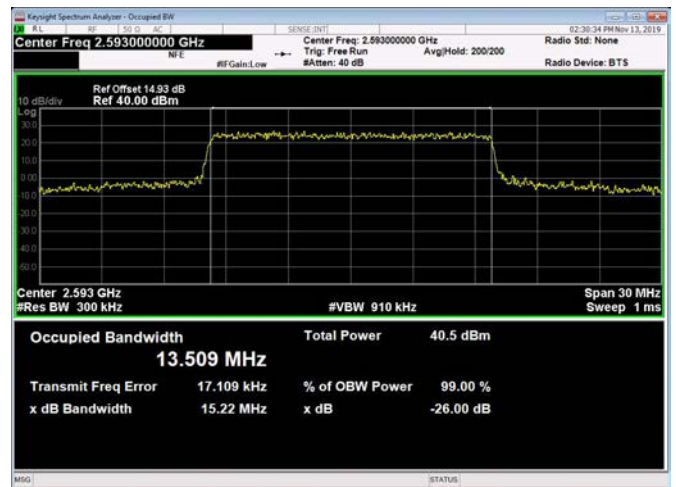
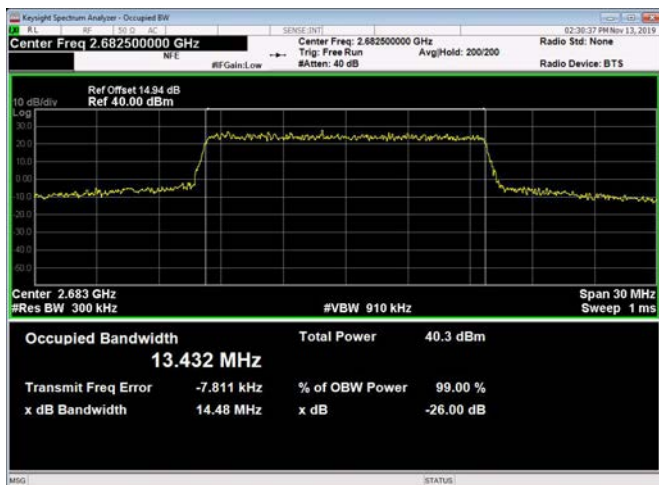
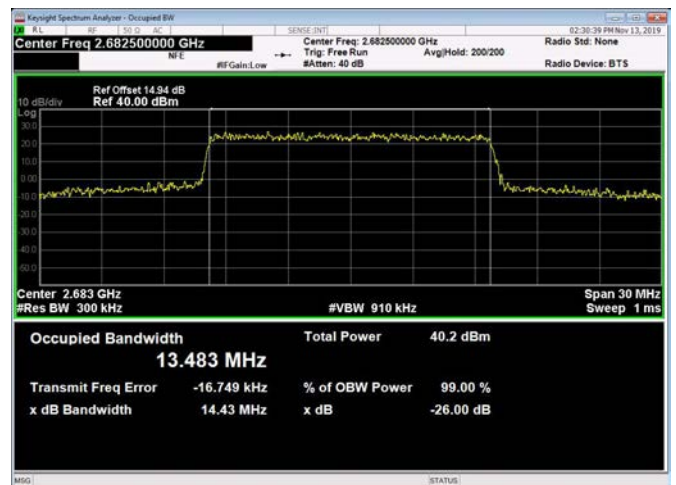
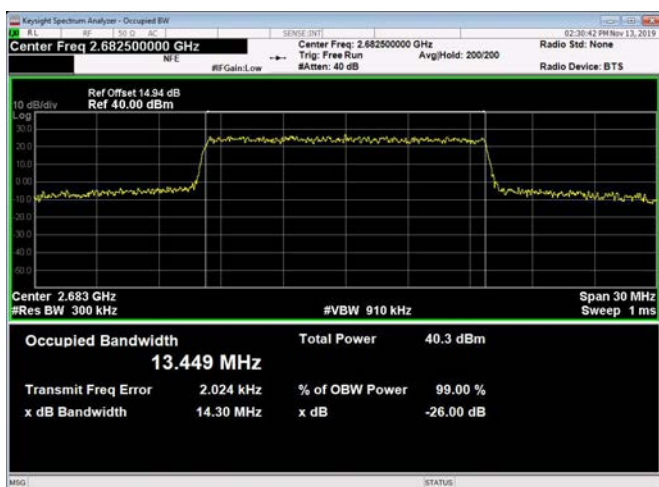
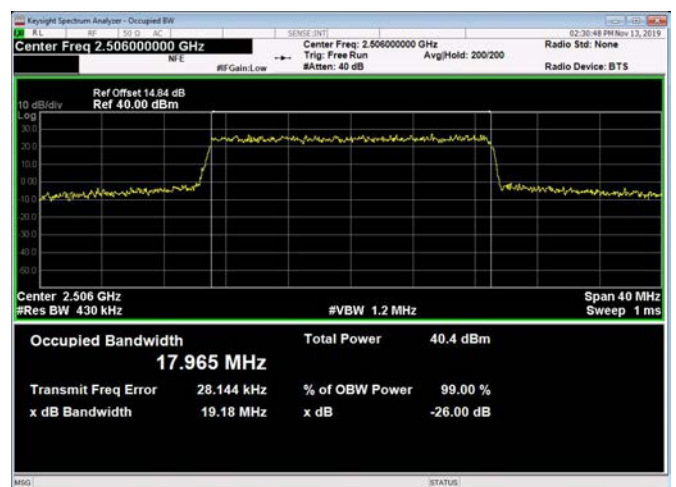
10MHz / 64QAM / Middle Channel

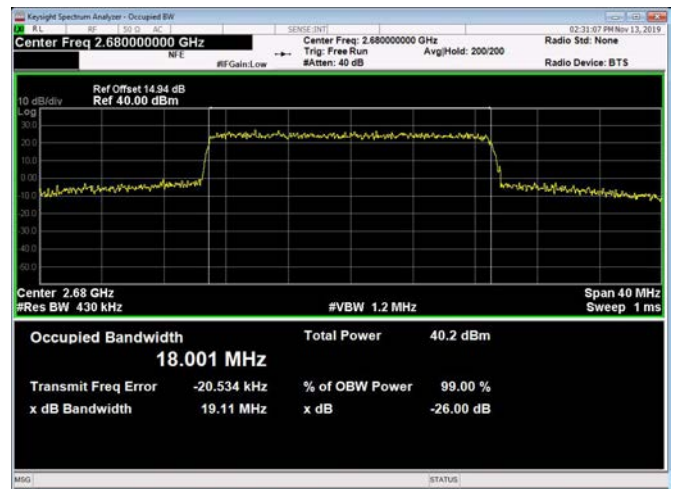
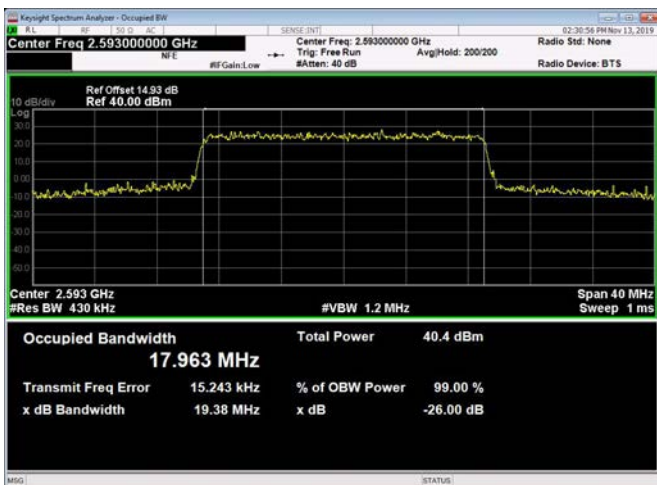
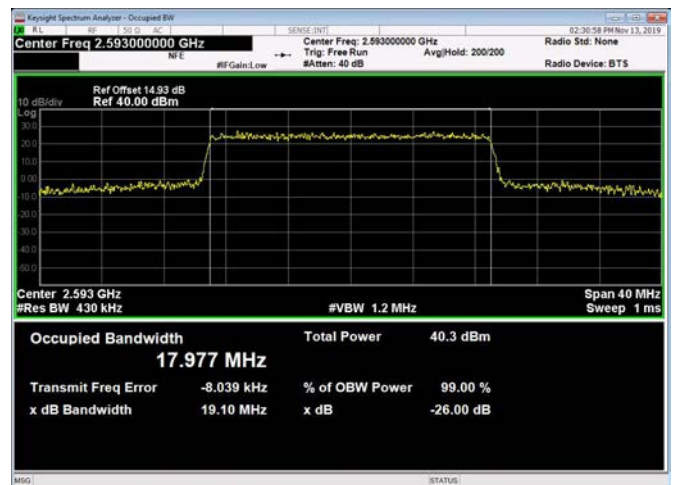
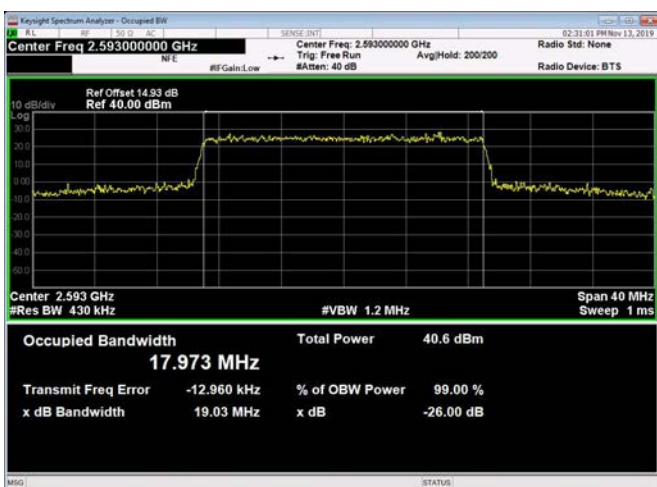


10MHz / QPSK / High Channel



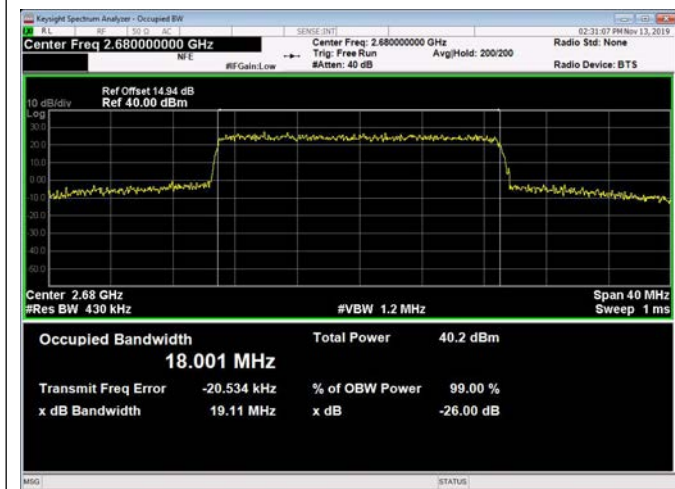
**10MHz / 16QAM / High Channel****10MHz / 64QAM / High Channel****15MHz / QPSK / Low Channel****15MHz / 16QAM / Low Channel****15MHz / 64QAM / Low Channel****15MHz / QPSK / Middle Channel**

**15MHz / 16QAM / Middle Channel****15MHz / 64QAM / Middle Channel****15MHz / QPSK / High Channel****15MHz / 16QAM / High Channel****15MHz / 64QAM / High Channel****20MHz / QPSK / Low Channel**

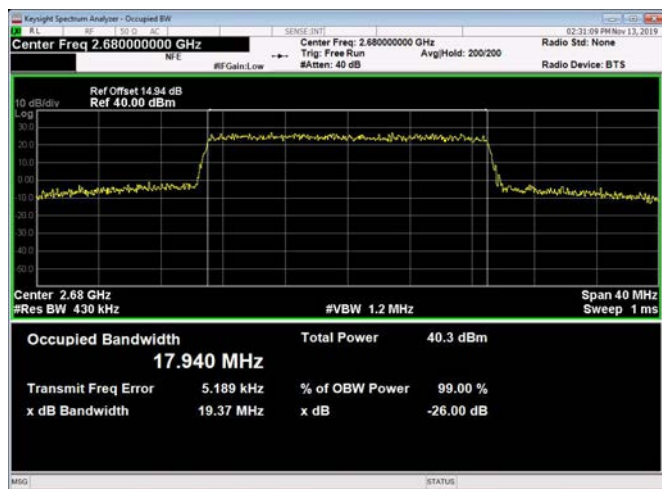
**20MHz / 16QAM / Low Channel****20MHz / 64QAM / Low Channel****20MHz / QPSK / Middle Channel****20MHz / 16QAM / Middle Channel****20MHz / 64QAM / Middle Channel****20MHz / QPSK / High Channel**



20MHz / 16QAM / High Channel



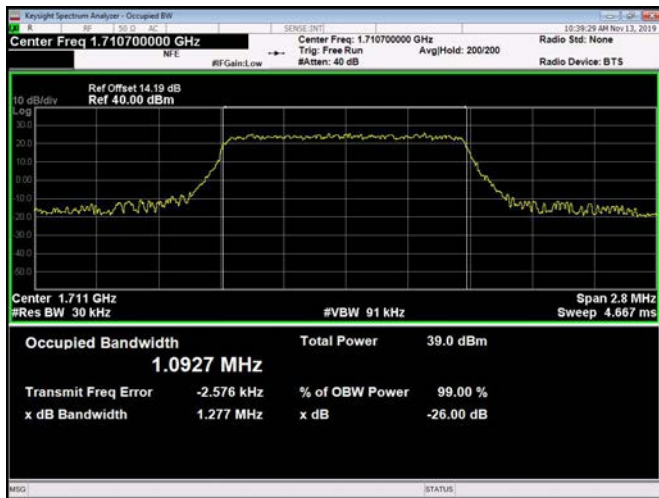
20MHz / 64QAM / High Channel





LTE Band 66 _ 99% Bandwidth & 26dB Bandwidth

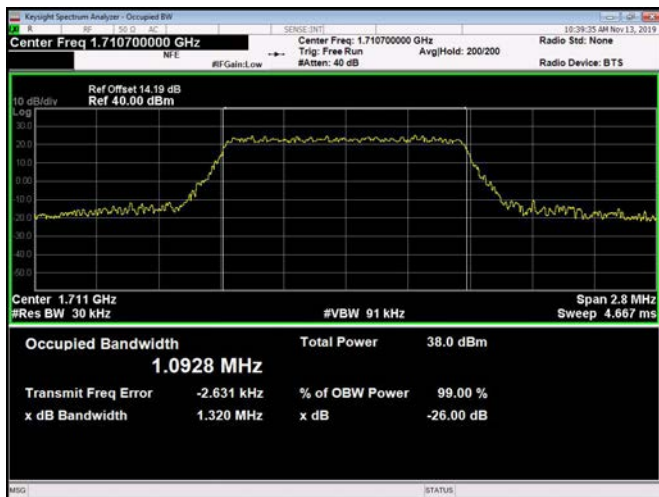
1.4MHz / QPSK / Low Channel



1.4MHz / 16QAM / Low Channel

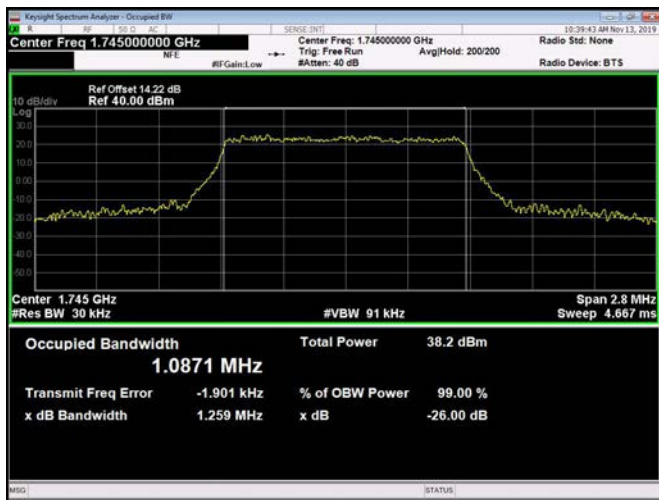
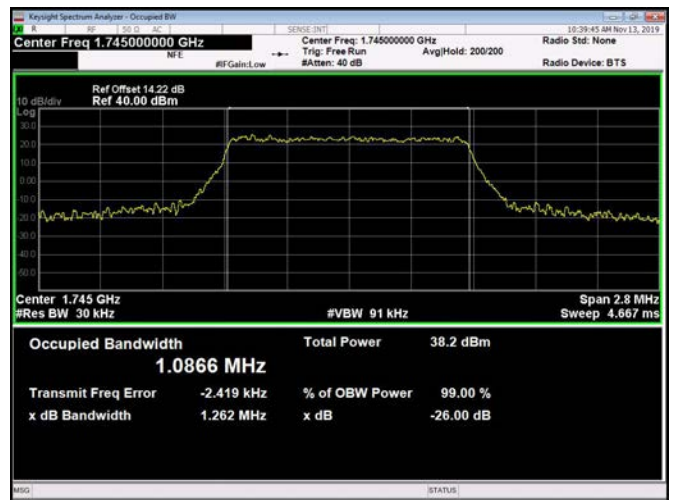
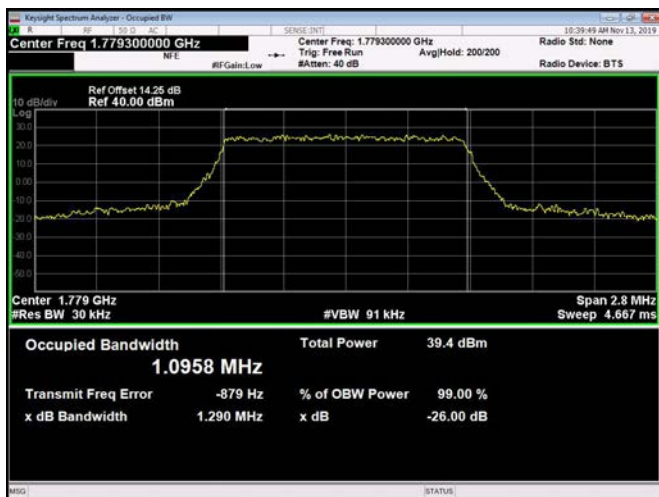


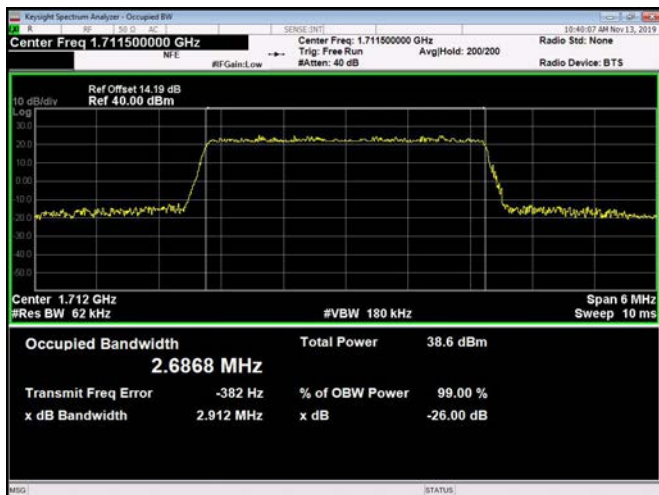
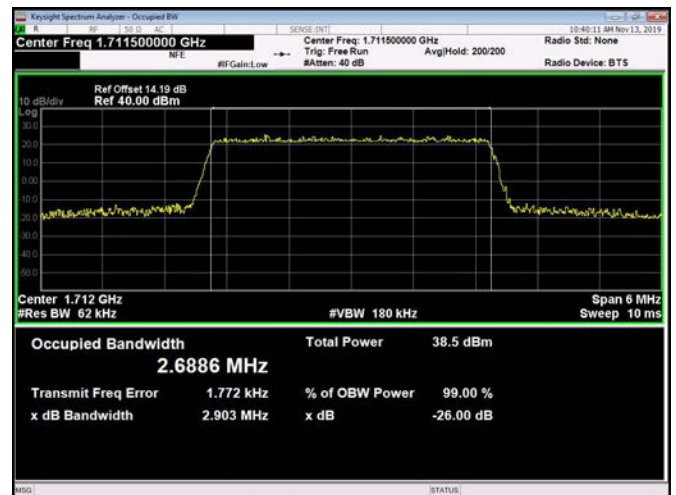
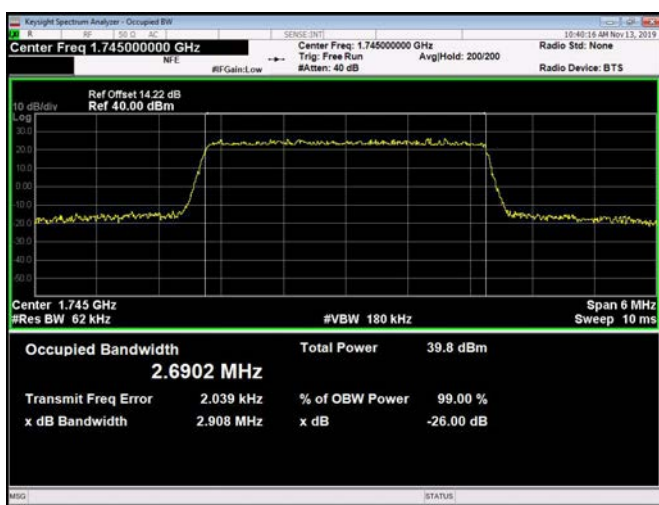
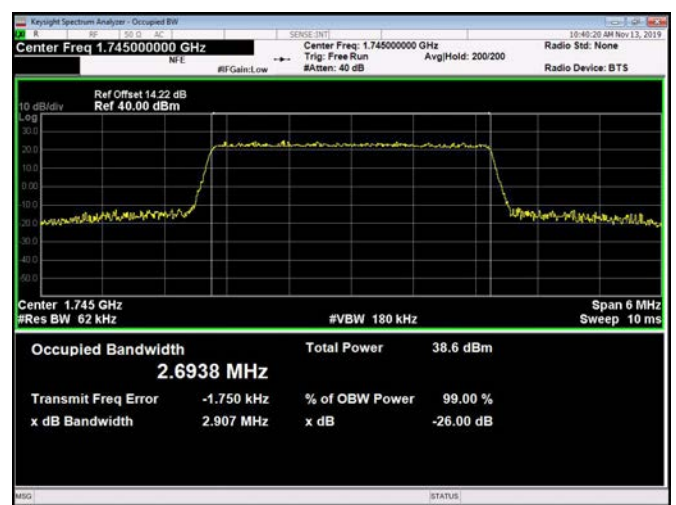
1.4MHz / 64QAM / Low Channel

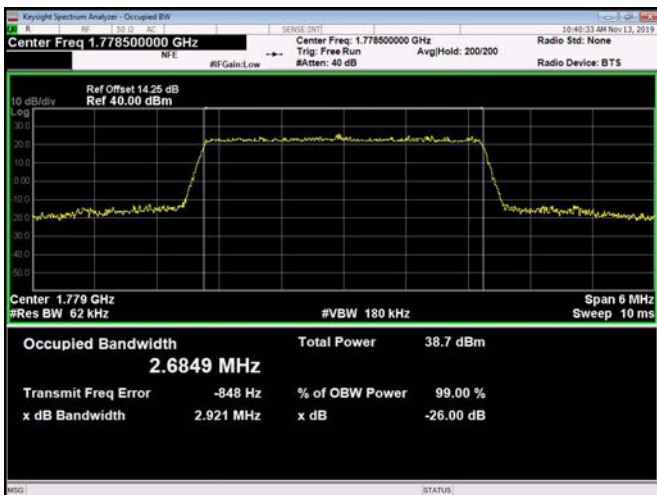
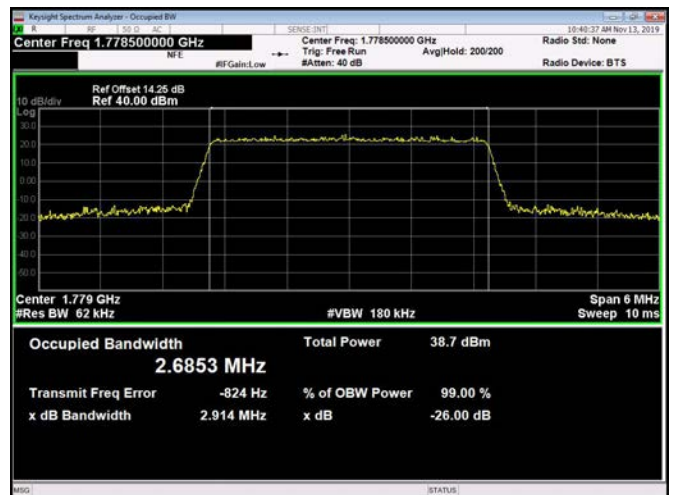
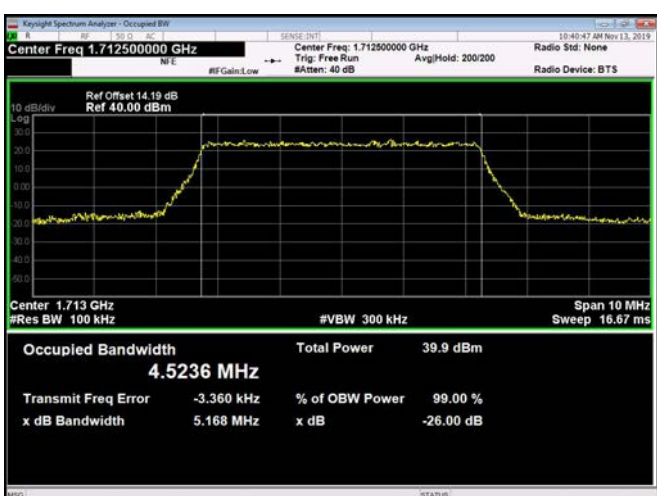
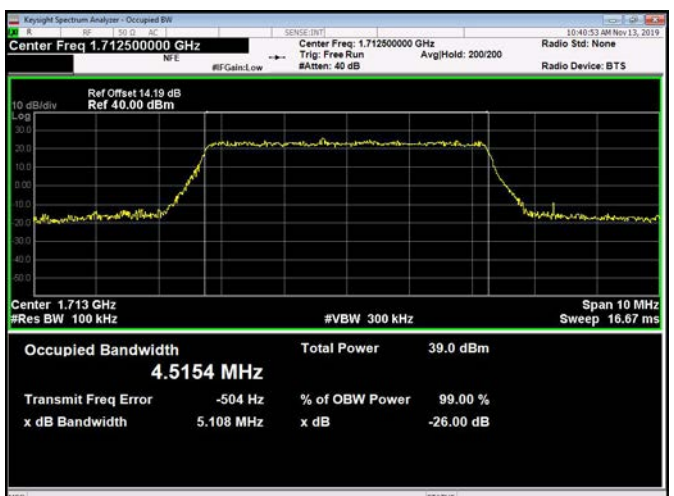


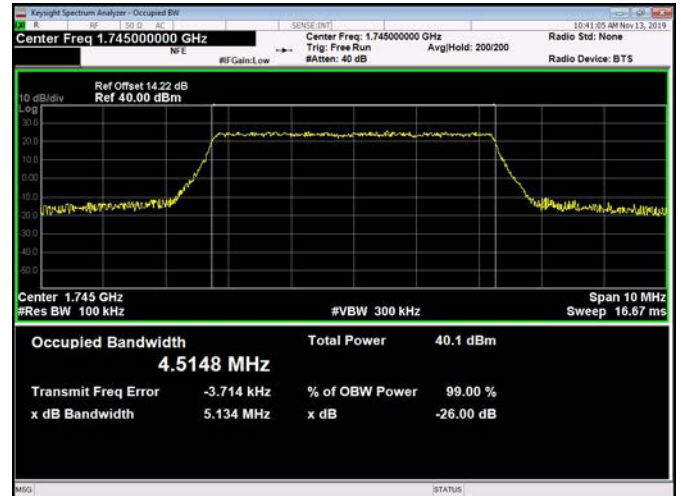
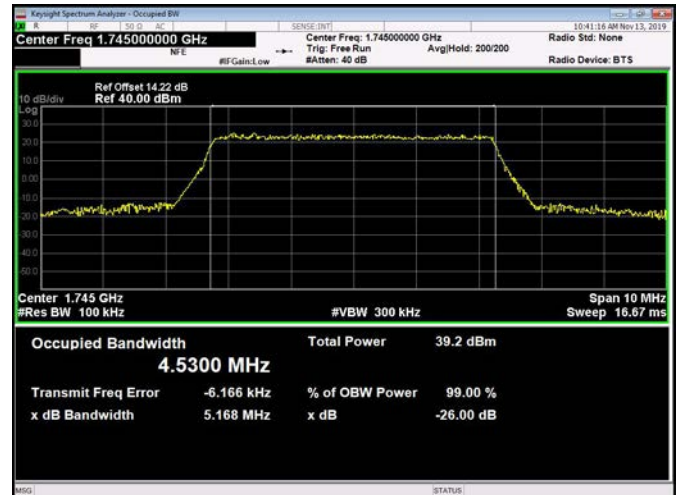
1.4MHz / QPSK / Middle Channel

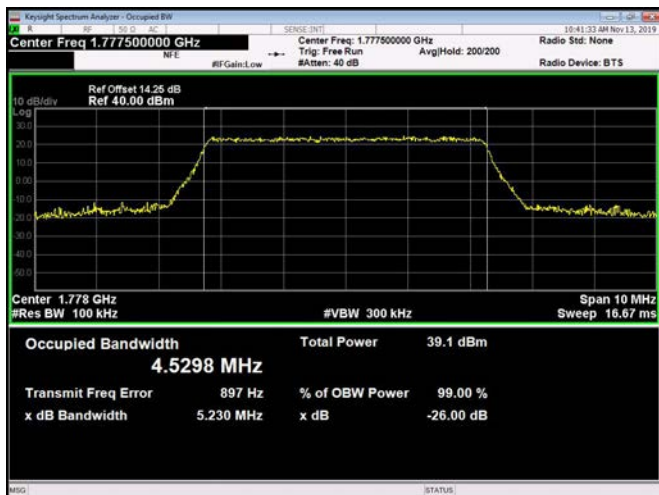
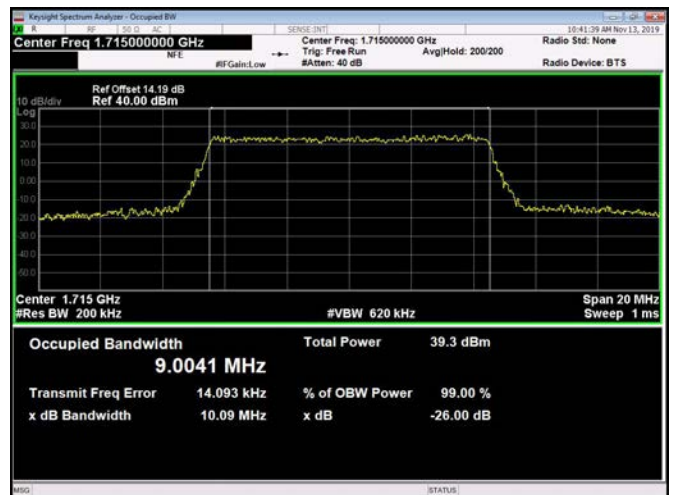


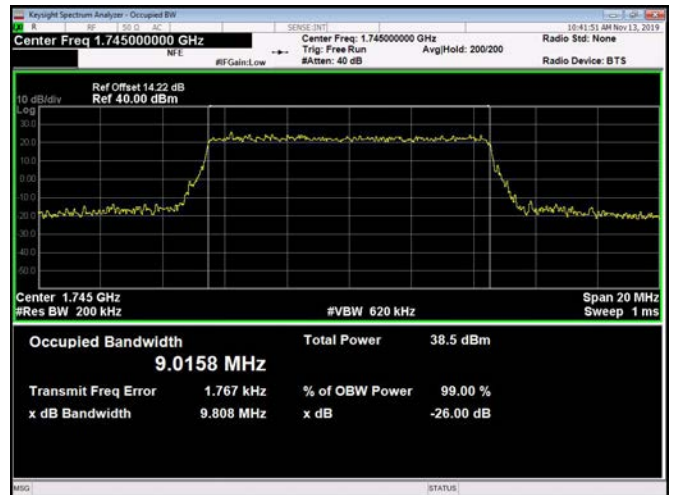
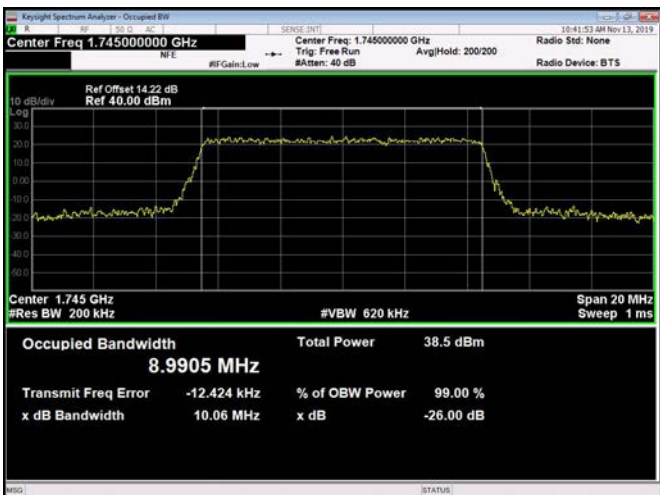
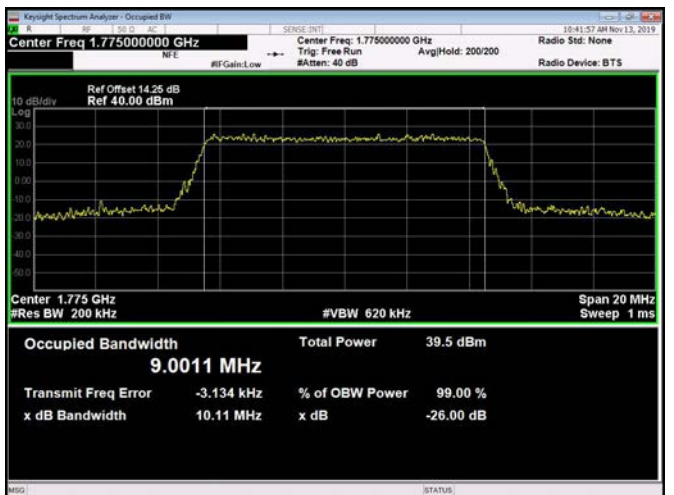
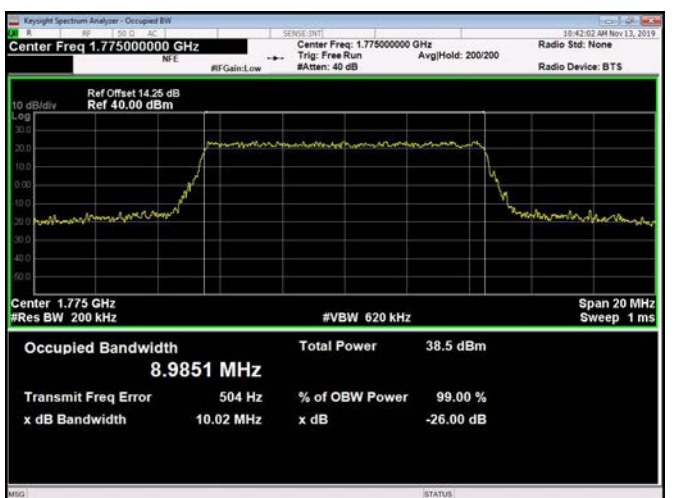
**1.4MHz / 16QAM / Middle Channel****1.4MHz / 64QAM / Middle Channel****1.4MHz / QPSK / High Channel****1.4MHz / 16QAM / High Channel**

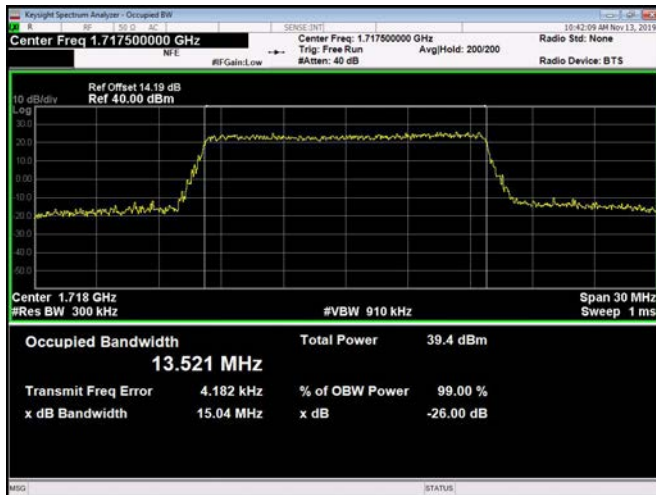
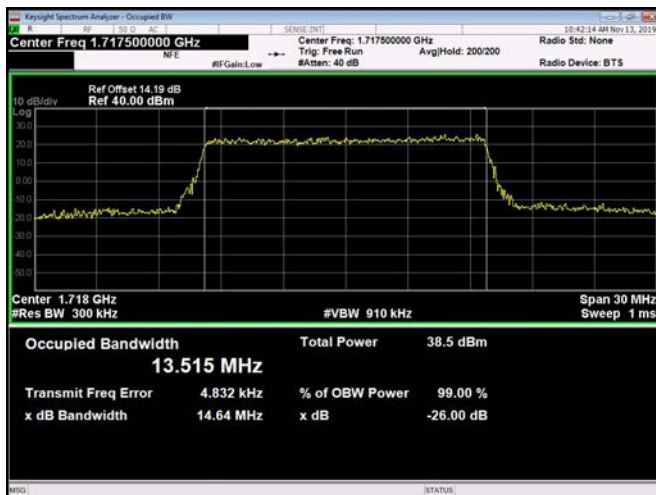
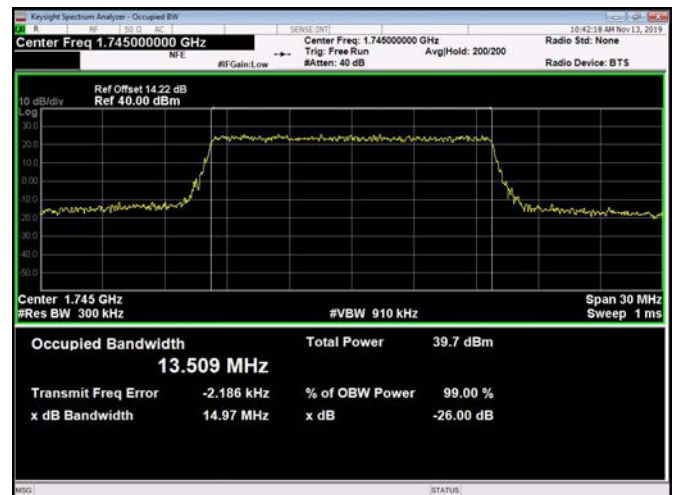
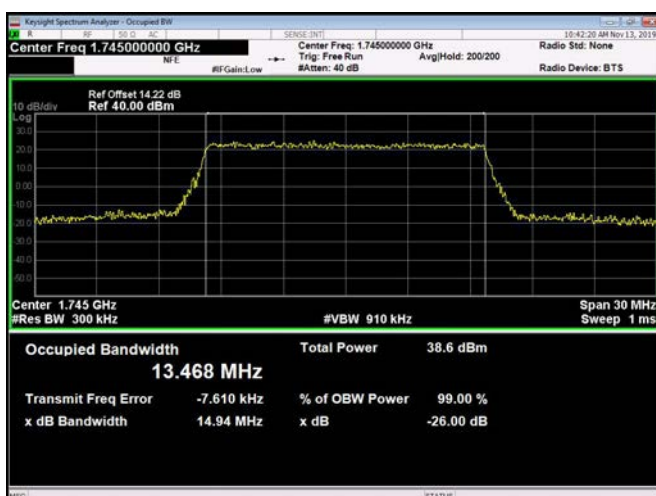
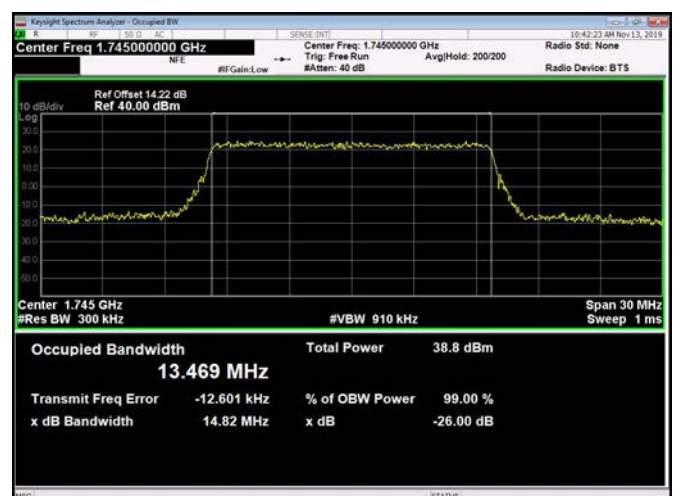
**1.4MHz / 64QAM / High Channel****3MHz / QPSK / Low Channel****3MHz / 16QAM / Low Channel****3MHz / 64QAM / Low Channel****3MHz / QPSK / Middle Channel****3MHz / 16QAM / Middle Channel**

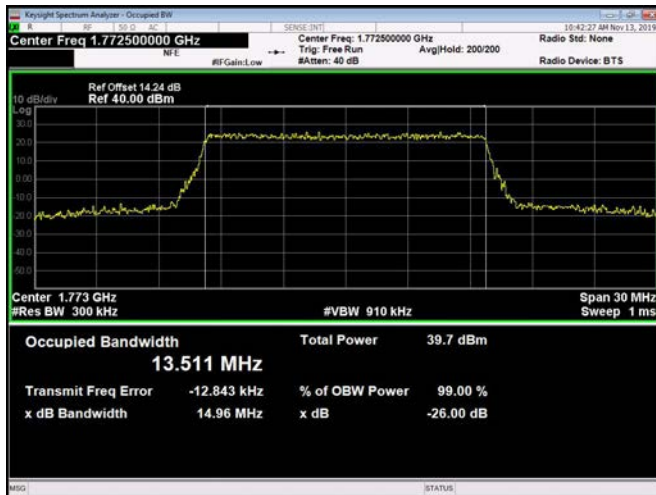
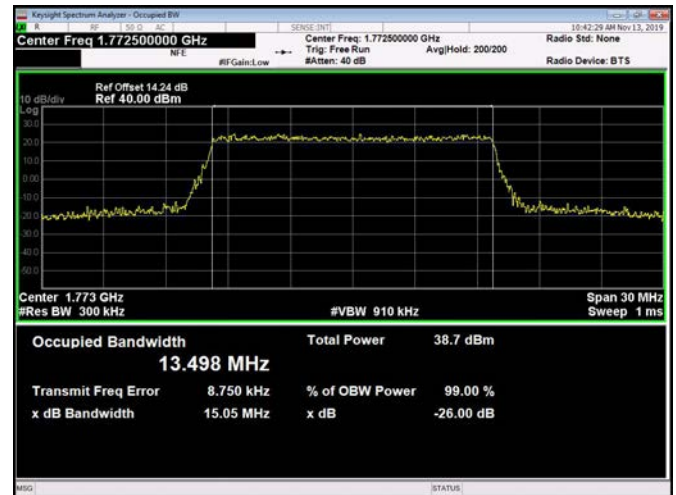
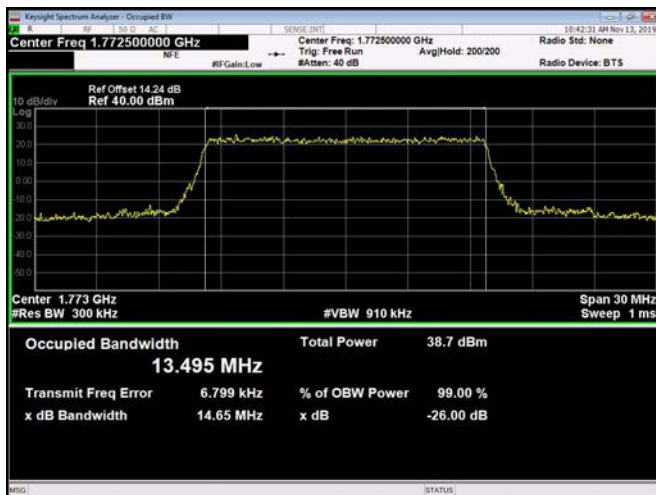
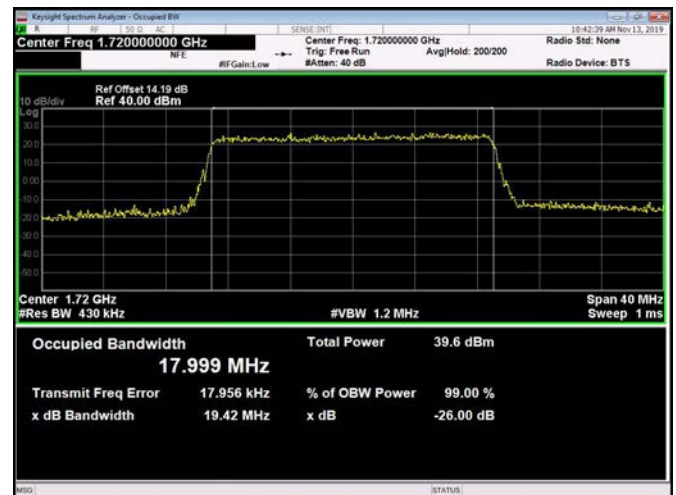
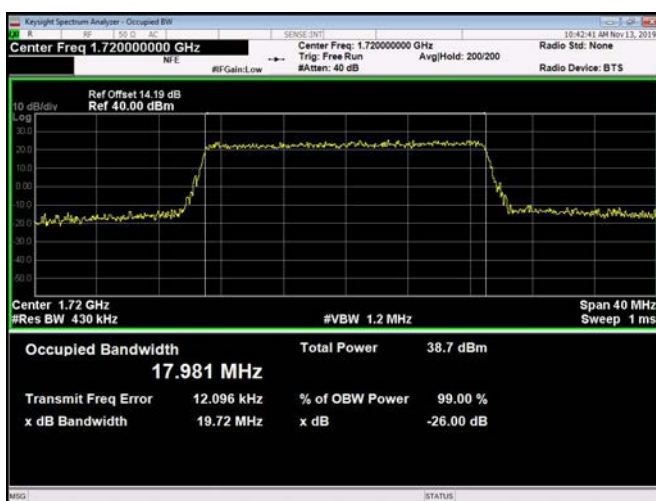
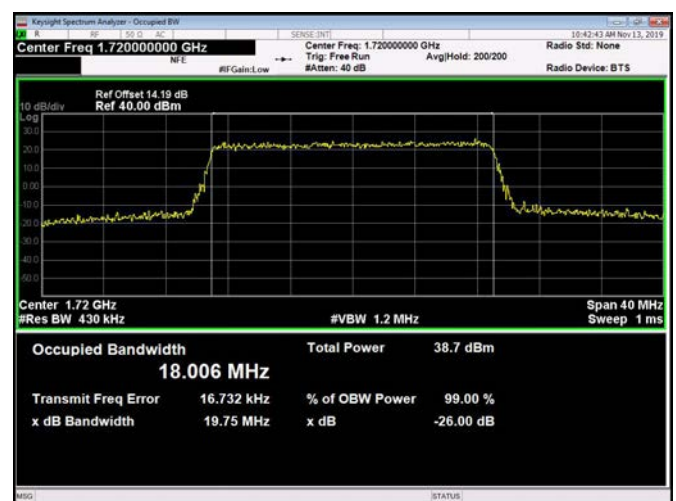
**3MHz / 64QAM / Middle Channel****3MHz / QPSK / High Channel****3MHz / 16QAM / High Channel****3MHz / 64QAM / High Channel****5MHz / QPSK / Low Channel****5MHz / 16QAM / Low Channel**

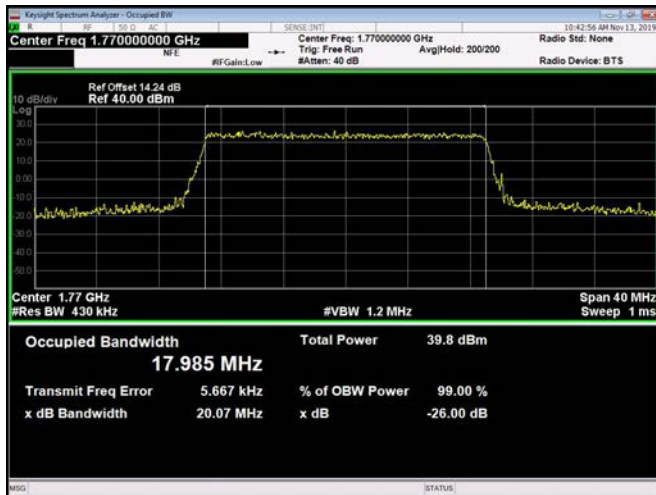
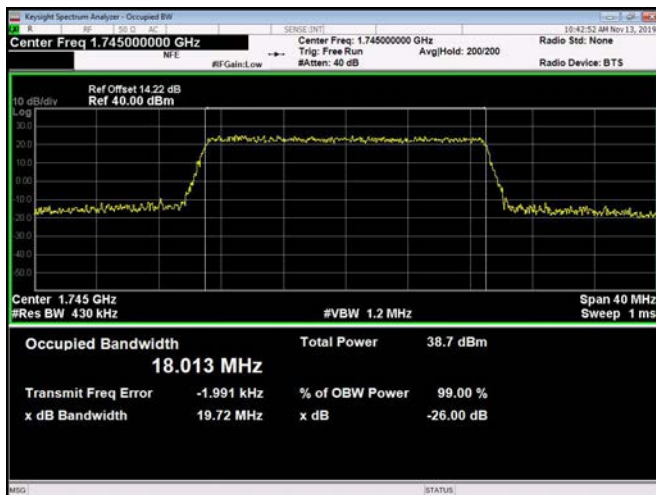
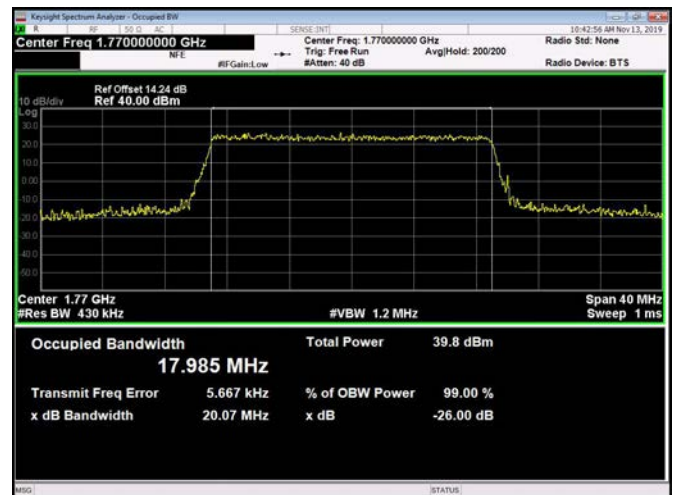
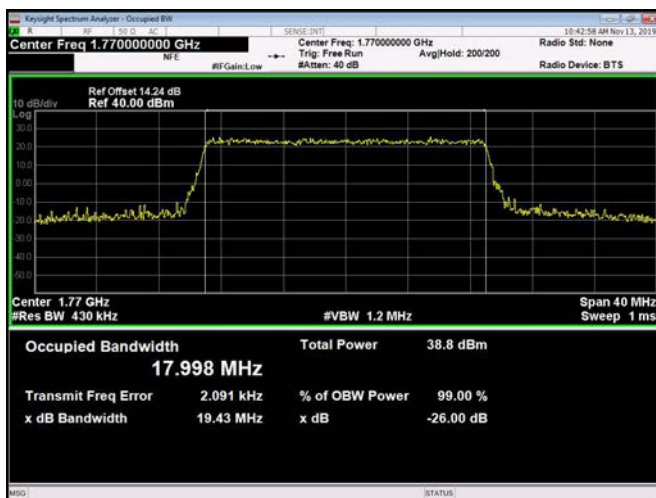
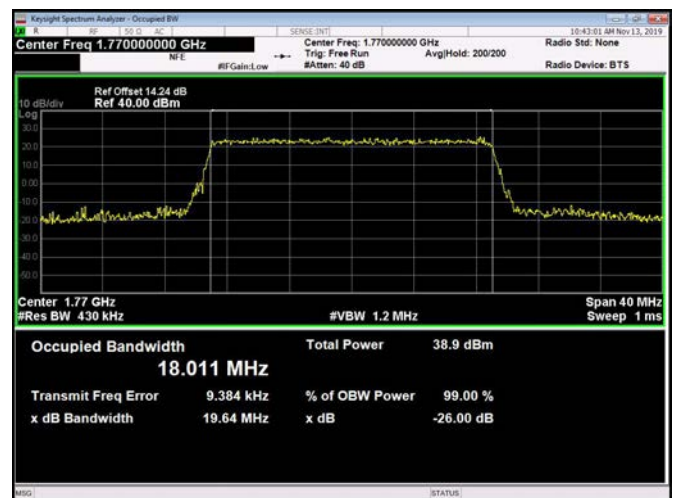
**5MHz / 64QAM / Low Channel****5MHz / QPSK / Middle Channel****5MHz / 16QAM / Middle Channel****5MHz / 64QAM / Middle Channel**

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



LTE Band 71 _ 99% Bandwidth & 26dB Bandwidth

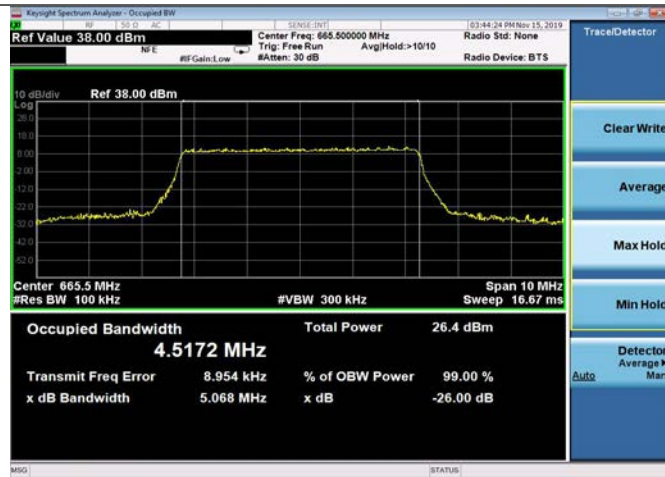
5MHz / QPSK / Low Channel



5MHz / 16QAM / Low Channel



5MHz / 64QAM / Low Channel



5MHz / QPSK / Middle Channel

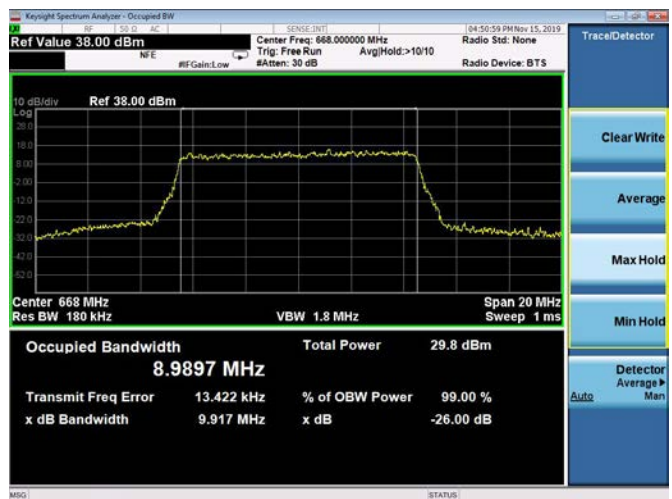
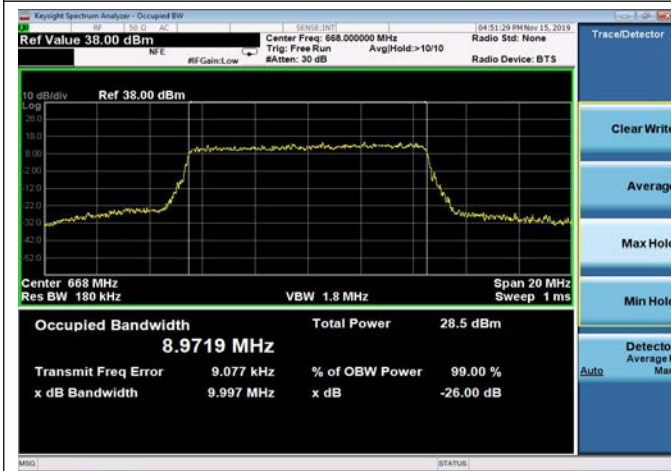
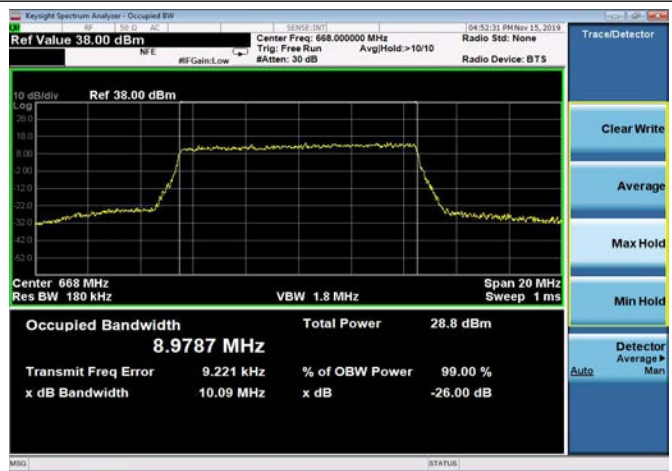


5MHz / 16QAM / Middle Channel



5MHz / 64QAM / Middle Channel



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



10MHz / QPSK / Middle Channel



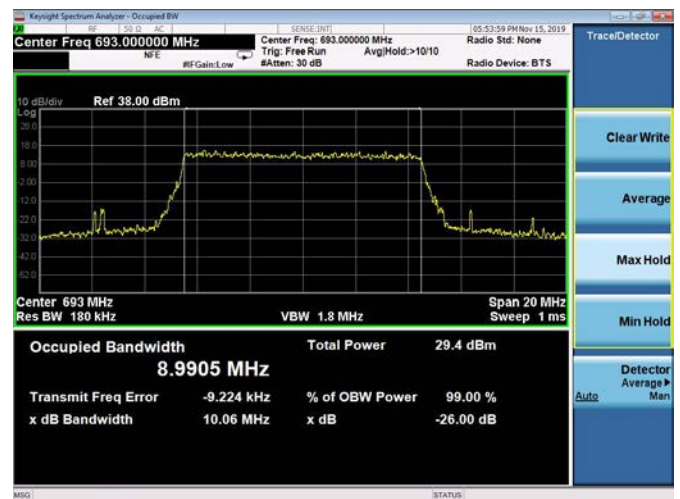
10MHz / 16QAM / Middle Channel



10MHz / 64QAM / Middle Channel



10MHz / QPSK / High Channel

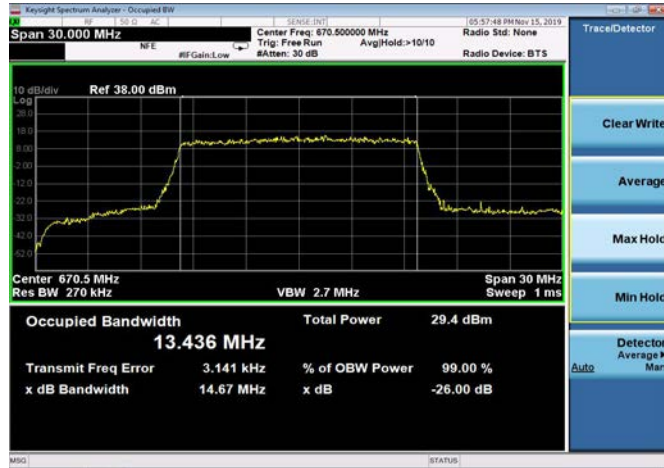
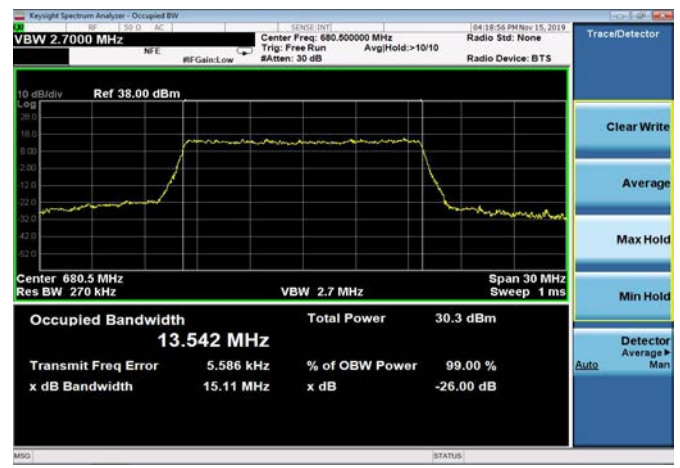


10MHz / 16QAM / High Channel



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**

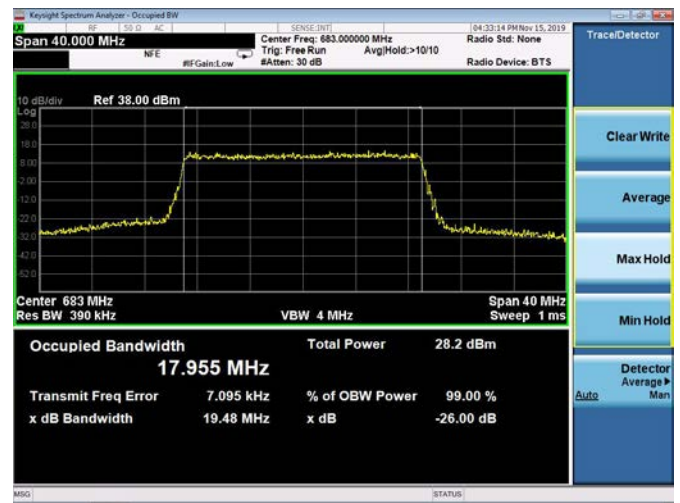
**15MHz / QPSK / High Channel****15MHz / 16QAM / High Channel****15MHz / 64QAM / High Channel****20MHz / QPSK / Low Channel****20MHz / 16QAM / Low Channel****20MHz / 64QAM / Low Channel**



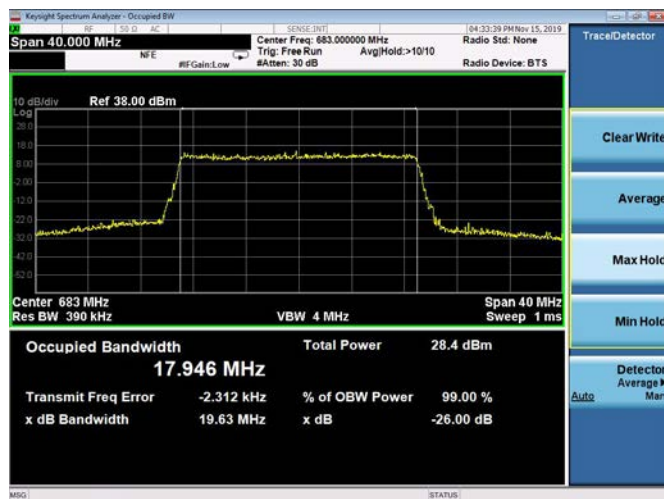
20MHz / QPSK / Middle Channel



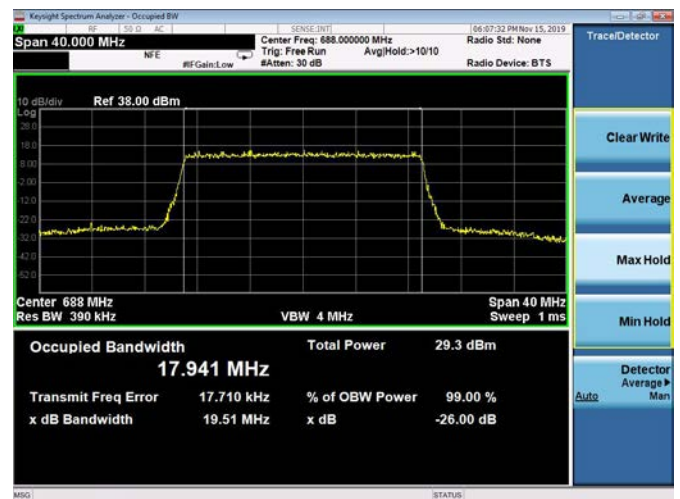
20MHz / 16QAM / Middle Channel



20MHz / 64QAM / Middle Channel



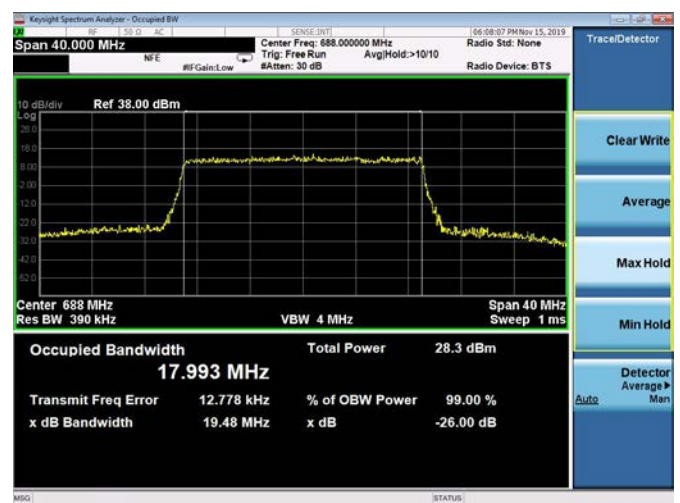
20MHz / QPSK / High Channel



20MHz / 16QAM / High Channel



20MHz / 64QAM / High Channel



2.3. Frequency Stability

2.3.1. Requirement

According to FCC section 2.1055 & 27.54&24.235&22.355&90.213, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -15°C to +55°C at intervals of not more than 10°C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01 v03r01 Section 9.0 and ANSI/TIA-603-E-2016.



2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.8Vdc, 4.35 Vdc and 3.5 Vdc, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz				
Limit =Within Authorized Band				
Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation	Result
			(ppm)	
3.8	+20(Ref)	8	0.004	PASS
	-15	71	0.038	
	-5	49	0.026	
	+5	57	0.030	
	+15	-53	-0.028	
	+25	77	0.041	
	+35	9	0.005	
	+45	-59	-0.031	
	+55	29	0.015	
4.35	+20	-13	-0.007	PASS
3.5	+20	67	0.036	

LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz				
Limit =Within Authorized Band				
Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation	Result
			(ppm)	
3.8	+20(Ref)	11	0.006	PASS
	-15	51	0.029	
	-5	32	0.018	
	+5	34	0.020	
	+15	-34	-0.020	
	+25	68	0.039	
	+35	50	0.029	
	+45	-34	-0.020	
	+55	70	0.040	
4.35	+20	29	0.017	PASS
3.5	+20	74	0.043	



LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz				
Limit =Within Authorized Band				
Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
3.8	+20(Ref)	6	0.007	PASS
	-15	71	0.085	
	-5	39	0.047	
	+5	-25	-0.030	
	+15	-75	-0.090	
	+25	55	0.066	
	+35	-14	-0.017	
	+45	-50	-0.060	
	+55	-19	-0.023	
4.35	+20	59	0.071	PASS
3.5	+20	-16	-0.019	

LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz				
Limit =Within Authorized Band				
Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
3.8	+20(Ref)	66	0.093	PASS
	-15	-76	-0.107	
	-5	55	0.078	
	+5	-25	-0.035	
	+15	54	0.076	
	+25	76	0.107	
	+35	48	0.068	
	+45	-9	-0.013	
	+55	79	0.112	
4.35	+20	47	0.066	PASS
3.5	+20	6	0.008	



LTE Band 13, QPSK, Channel 23230, Frequency 782MHz				
Limit =Within Authorized Band				
Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
3.8	+20(Ref)	-73	-0.093	PASS
	-15	24	0.031	
	-5	34	0.043	
	+5	73	0.093	
	+15	-12	-0.015	
	+25	60	0.077	
	+35	-19	-0.024	
	+45	65	0.083	
	+55	34	0.043	
4.35	+20	-4	-0.005	PASS
3.5	+20	-38	-0.049	

LTE Band 25, QPSK, Channel 26365, Frequency 1882.5MHz				
Limit =Within Authorized Band				
Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
3.8	+20(Ref)	37	0.020	PASS
	-15	76	0.040	
	-5	16	0.008	
	+5	-72	-0.038	
	+15	79	0.042	
	+25	15	0.008	
	+35	10	0.005	
	+45	48	0.025	
	+55	-25	-0.013	
4.35	+20	-10	-0.005	PASS
3.5	+20	-51	-0.027	



LTE Band 26, QPSK, Channel 26865, Frequency 836.5MHz				
Limit =Within Authorized Band				
Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
3.8	+20(Ref)	-35	-0.042	PASS
	-15	-64	-0.077	
	-5	42	0.050	
	+5	-12	-0.014	
	+15	56	0.067	
	+25	-59	-0.071	
	+35	12	0.014	
	+45	26	0.031	
	+55	-62	-0.074	
4.35	+20	41	0.049	PASS
3.5	+20	29	0.035	

LTE Band 41, QPSK, Channel 40620, Frequency 2593MHz				
Limit =Within Authorized Band				
Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
3.85	+20(Ref)	55	0.021	PASS
	-15	11	0.004	
	-5	1	0.000	
	+5	-32	-0.012	
	+15	1	0.000	
	+25	-46	-0.018	
	+35	41	0.016	
	+45	66	0.025	
	+55	49	0.019	
4.35	+20	-25	-0.010	PASS
3.5	+20	26	0.010	



LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz				
Limit =Within Authorized Band				
Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
3.85	+20(Ref)	19	0.011	PASS
	-15	-42	-0.024	
	-5	-77	-0.044	
	+5	54	0.031	
	+15	77	0.044	
	+25	-8	-0.005	
	+35	18	0.010	
	+45	19	0.011	
	+55	-74	-0.042	
4.35	+20	22	0.013	
3.5	+20	66	0.038	

LTE Band 71, QPSK, Channel 133297, Frequency 680.5MHz				
Limit =Within Authorized Band				
Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
3.85	+20(Ref)	66	0.097	PASS
	-15	14	0.021	
	-5	28	0.041	
	+5	75	0.110	
	+15	-69	-0.101	
	+25	75	0.110	
	+35	41	0.060	
	+45	-68	-0.100	
	+55	69	0.101	
4.35	+20	30	0.044	
3.5	+20	8	0.012	

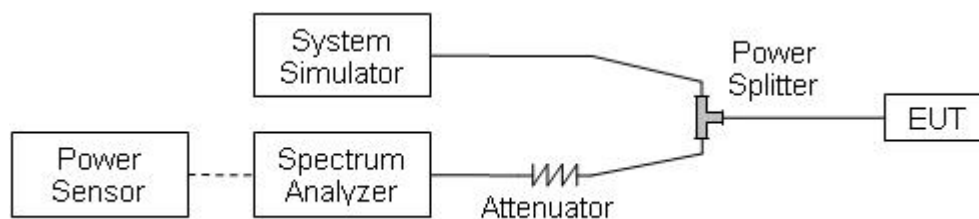
2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d)&27.50(d)(5)&22.913(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. Test Description

A. Test Set:



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.

2.4.3. Test procedure

KDB 971168 D01 v03r01 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



LTE Band 2				
Bandwidth (MHz)	Channel	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
1.4	Low	4.38	5.29	5.27
	Middle	5.04	5.32	5.77
	High	4.31	5.32	5.18
3	Low	4.30	5.12	5.09
	Middle	4.47	5.25	5.28
	High	4.29	5.19	5.24
5	Low	4.54	5.19	5.13
	Middle	4.77	5.20	5.38
	High	4.38	5.04	5.01
10	Low	4.35	4.53	5.17
	Middle	4.65	5.55	5.50
	High	4.53	5.50	5.42
15	Low	4.39	5.26	5.20
	Middle	4.79	5.80	5.52
	High	4.68	5.61	5.62
20	Low	4.40	4.96	4.94
	Middle	4.88	5.46	5.40
	High	4.86	5.53	5.60



LTE Band 4				
Bandwidth (MHz)	Channel	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
1.4	Low	5.54	6.10	6.10
	Middle	3.82	4.71	4.68
	High	5.76	6.60	6.53
3	Low	5.67	6.49	6.40
	Middle	3.69	4.55	4.60
	High	5.51	6.08	6.10
5	Low	6.04	6.30	6.30
	Middle	3.63	4.25	4.24
	High	5.79	6.41	6.34
10	Low	5.75	6.56	6.65
	Middle	3.6	4.58	4.59
	High	5.18	5.85	5.89
15	Low	5.74	6.53	6.55
	Middle	3.78	4.71	4.75
	High	4.69	5.41	5.41
20	Low	5.72	6.19	6.19
	Middle	4.14	4.96	4.99
	High	4.35	5.33	5.39



LTE Band 5				
Bandwidth (MHz)	Channel	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
1.4	Low	4.29	5.14	5.10
	Middle	5.33	6.10	6.18
	High	4.08	5.43	5.40
3	Low	4.39	5.27	5.30
	Middle	4.88	5.78	5.88
	High	3.98	4.73	4.77
5	Low	4.56	5.38	5.26
	Middle	4.45	5.08	5.12
	High	3.11	3.82	3.84
10	Low	4.28	5.17	5.16
	Middle	3.43	4.46	4.42
	High	4.71	5.53	5.51

LTE Band 12				
Bandwidth (MHz)	Channel	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
1.4	Low	4.23	4.87	4.86
	Middle	4.27	5.16	5.15
	High	4.36	5.69	5.29
3	Low	4.09	4.84	4.92
	Middle	4.77	5.22	5.19
	High	4.48	5.55	5.46
5	Low	4.47	5.31	5.00
	Middle	4.59	5.28	5.29
	High	4.52	5.07	5.11
10	Low	4.30	4.99	4.80
	Middle	5.25	5.62	5.65
	High	4.24	5.30	5.13



LTE Band 13				
Bandwidth (MHz)	Channel	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
5	Low	3.93	4.63	4.66
	Middle	3.88	4.61	4.63
	High	4.30	4.97	5.00
10	Low	/	/	/
	Middle	3.77	4.71	4.70
	High	/	/	/

LTE Band 25				
Bandwidth (MHz)	Channel	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
1.4	Low	4.86	5.76	5.71
	Middle	4.69	5.60	5.60
	High	4.05	4.84	4.85
3	Low	4.73	5.58	5.54
	Middle	4.60	5.56	5.66
	High	4.31	5.13	5.17
5	Low	4.88	5.53	5.54
	Middle	4.64	5.23	5.25
	High	4.7	5.34	5.29
10	Low	4.79	5.61	5.60
	Middle	4.89	5.90	5.81
	High	4.31	5.07	5.07
15	Low	4.75	5.54	5.56
	Middle	4.96	5.93	5.90
	High	4.80	5.59	5.62
20	Low	4.81	5.39	5.36
	Middle	5.28	5.95	6.09
	High	5.14	6.15	6.16



LTE Band 26				
Bandwidth (MHz)	Channel	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
1.4	Low	4.36	5.35	5.30
	Middle	4.49	5.49	5.50
	High	4.03	4.81	4.77
3	Low	4.29	5.13	5.14
	Middle	4.49	5.47	5.29
	High	3.95	4.77	4.76
5	Low	4.49	5.13	5.12
	Middle	4.48	5.11	5.17
	High	4.44	5.12	5.14
10	Low	4.37	5.18	5.19
	Middle	4.60	5.56	5.59
	High	4.54	5.26	5.24
15	Low	4.43	5.23	5.24
	Middle	4.42	5.49	5.45
	High	4.40	5.13	5.15



LTE Band 41				
Bandwidth (MHz)	Channel	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
5	Low	6.77	8.69	8.58
	Middle	8.55	8.86	8.76
	High	8.30	7.01	7.15
10	Low	6.82	8.69	8.67
	Middle	8.12	8.54	10.45
	High	10.59	9.77	8.75
15	Low	6.81	8.46	7.22
	Middle	8.32	8.66	8.95
	High	7.42	7.99	7.44
20	Low	7.44	7.03	8.38
	Middle	6.95	8.95	7.41
	High	8.35	8.87	10.68



LTE Band 66				
Bandwidth (MHz)	Channel	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
1.4	Low	4.32	5.61	5.63
	Middle	4.23	5.46	5.62
	High	4.18	5.23	5.25
3	Low	4.29	5.45	5.46
	Middle	4.16	5.61	5.54
	High	4.36	5.27	5.25
5	Low	4.43	5.53	5.60
	Middle	4.17	5.17	5.15
	High	4.67	5.48	5.43
10	Low	4.33	5.48	5.52
	Middle	4.23	5.71	5.64
	High	4.59	5.38	5.40
15	Low	4.39	5.54	5.58
	Middle	4.31	5.44	5.41
	High	4.99	5.71	5.73
20	Low	4.49	5.46	5.41
	Middle	4.62	5.63	5.53
	High	5.15	6.20	6.10

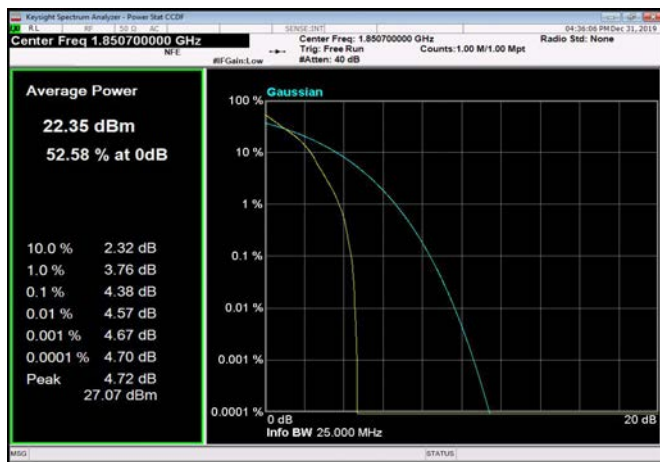


LTE Band 71				
Bandwidth (MHz)	Channel	Peak to Average Ratio(dB)		
		QPSK	16QAM	64QAM
5	Low	5.02	5.73	5.70
	Middle	4.74	5.45	5.49
	High	4.12	4.76	4.70
10	Low	6.11	5.24	5.24
	Middle	4.86	5.50	5.53
	High	4.82	5.42	5.42
15	Low	4.50	5.16	5.27
	Middle	4.90	5.69	5.72
	High	5.31	6.23	6.13
20	Low	4.75	5.68	5.70
	Middle	4.88	5.90	5.93
	High	5.93	6.12	6.38

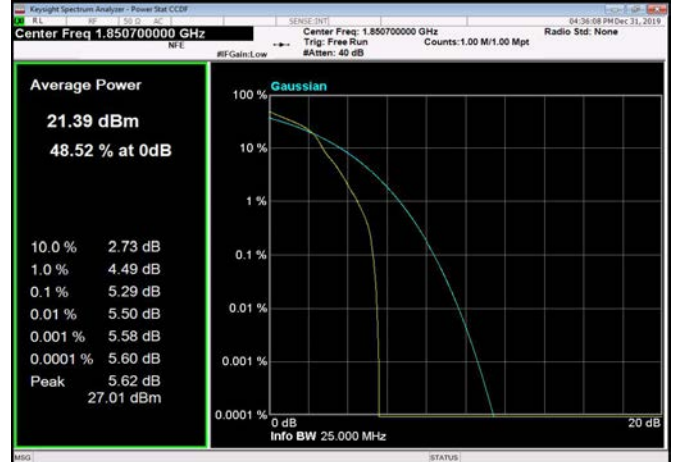


LTE Band 2 _ Peak-to-Average Ratio

1.4MHz / QPSK / Low Channel



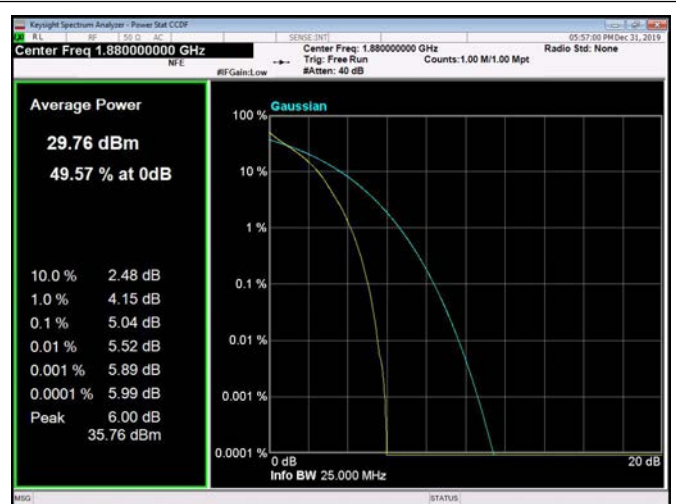
1.4MHz / 16QAM / Low Channel



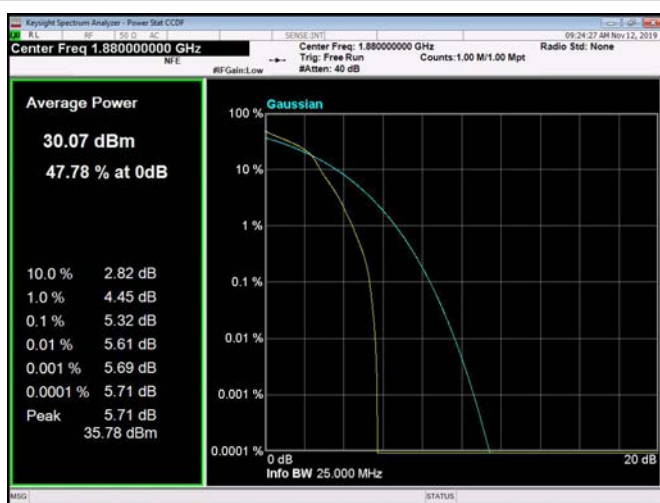
1.4MHz / 64QAM / Low Channel



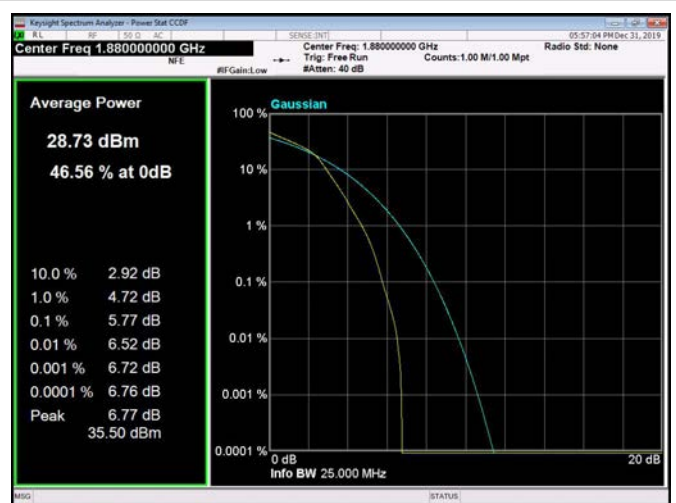
1.4MHz / QPSK / Middle Channel

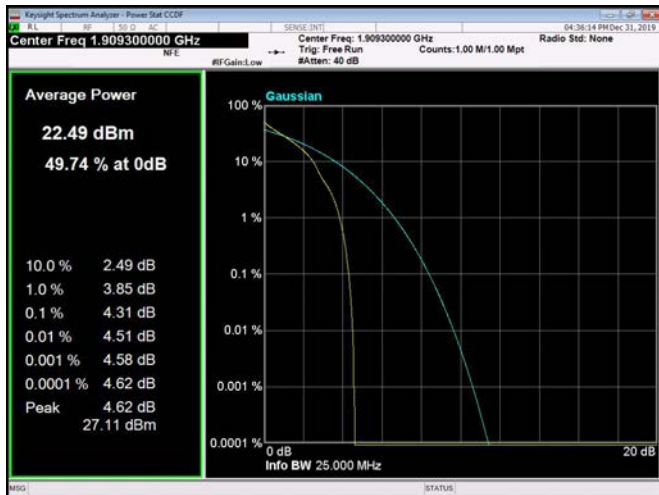
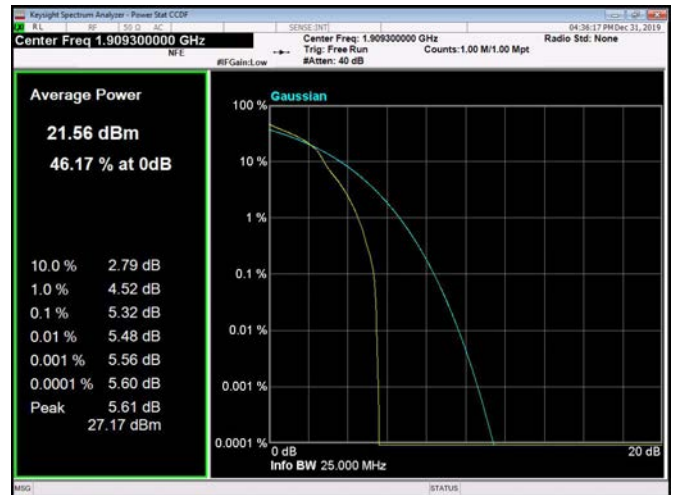
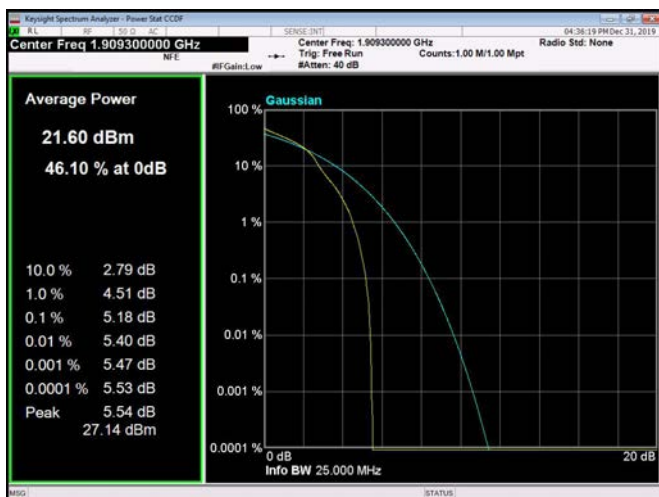
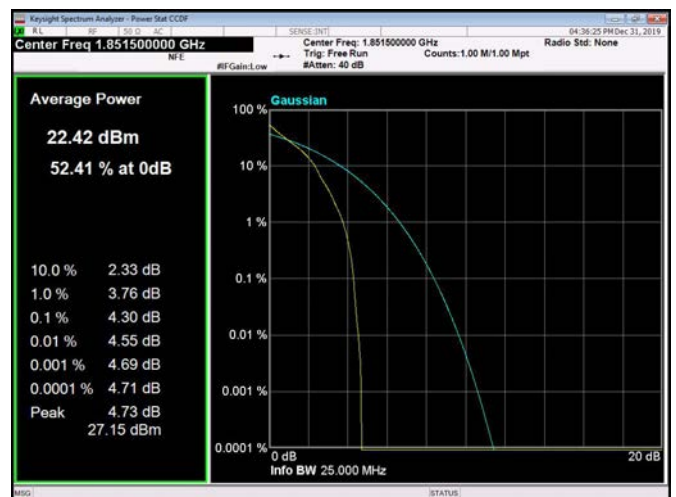
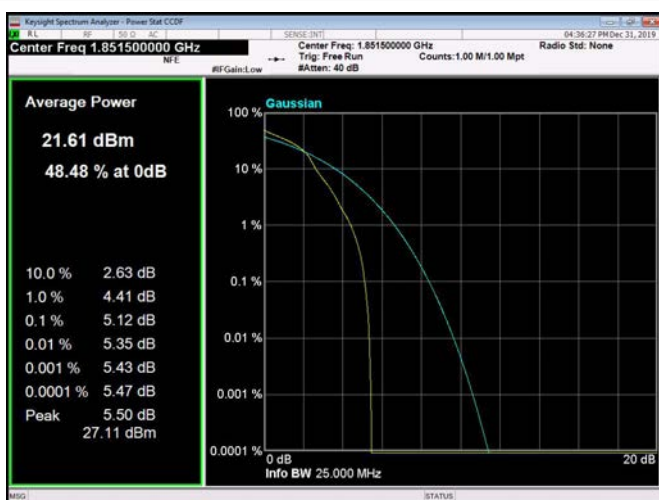


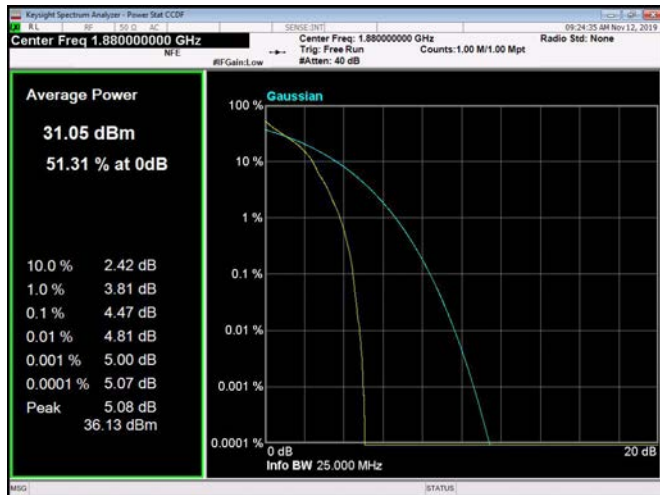
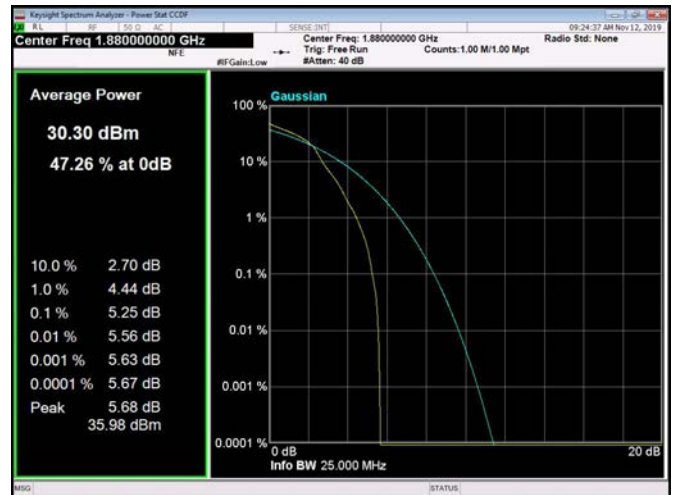
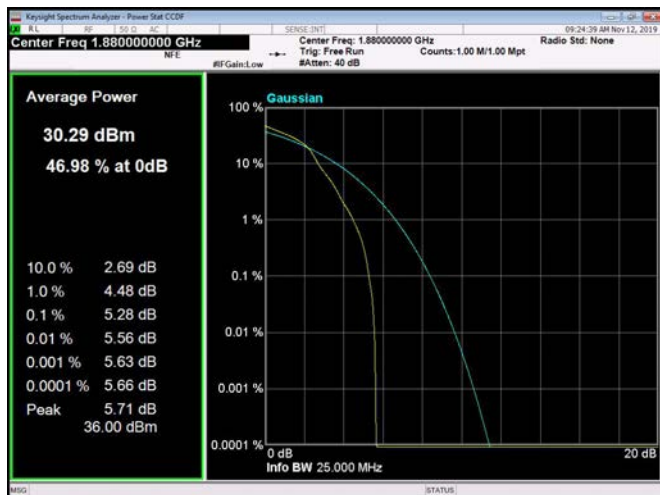
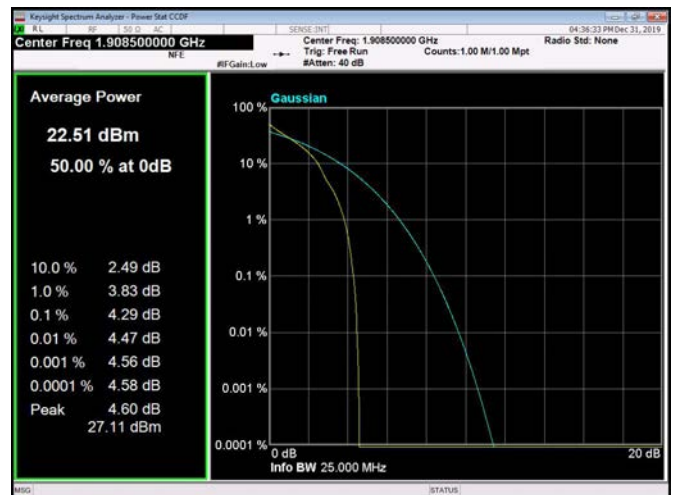
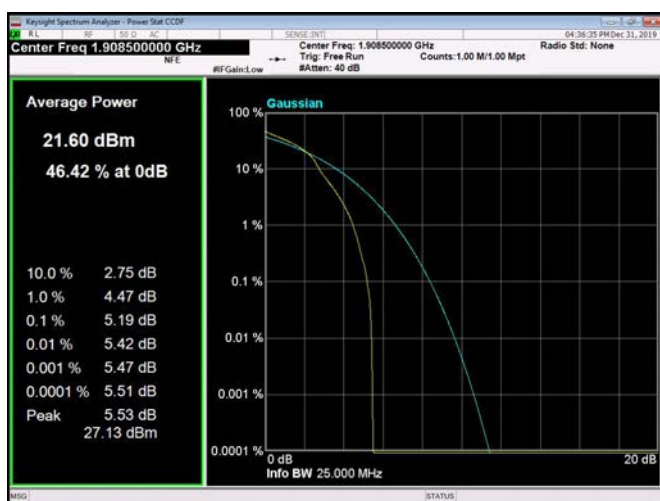
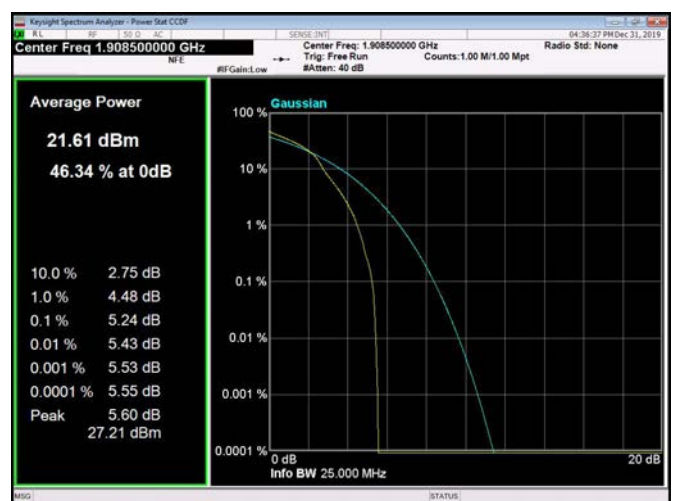
1.4MHz / 16QAM / Middle Channel

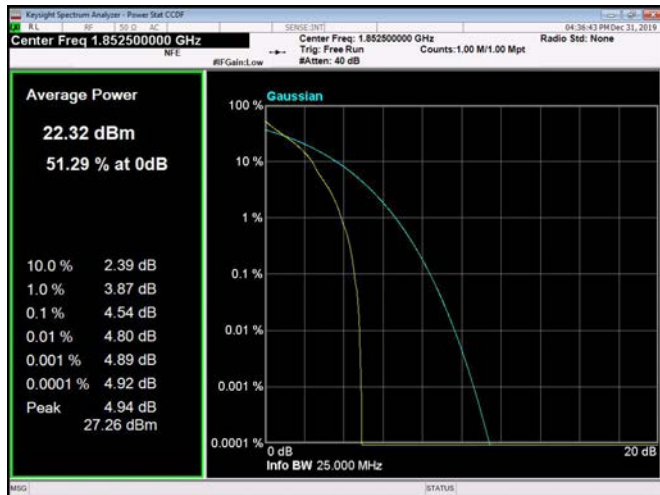
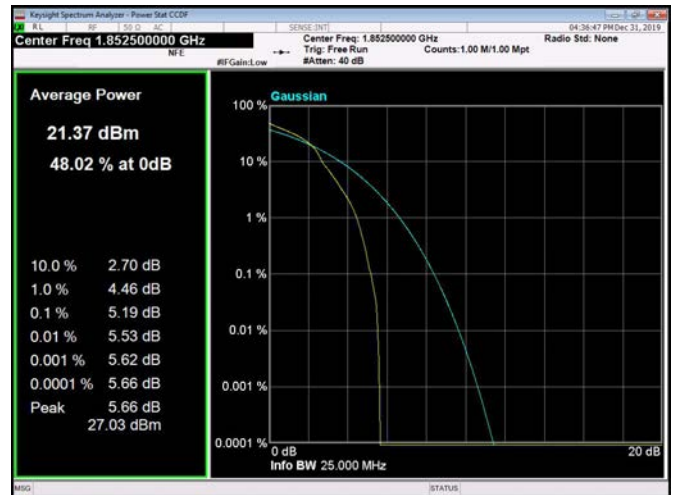
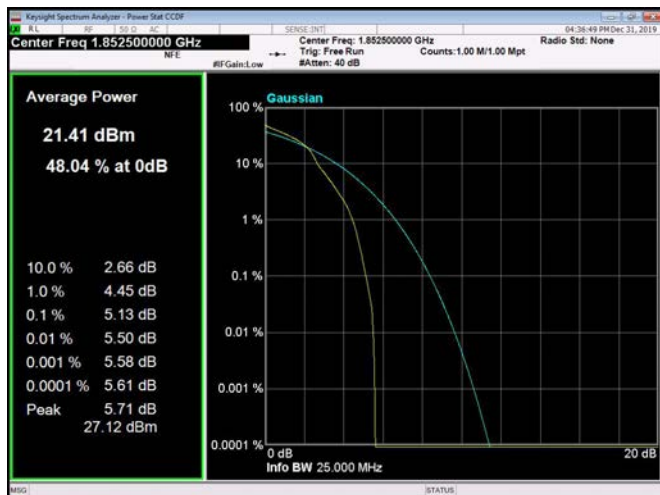
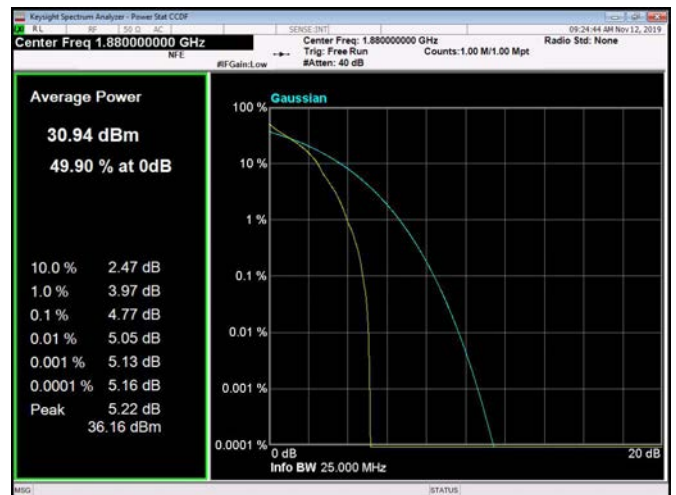
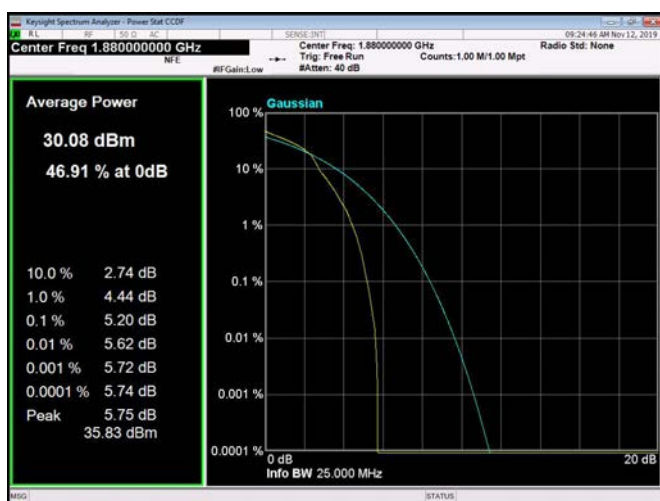
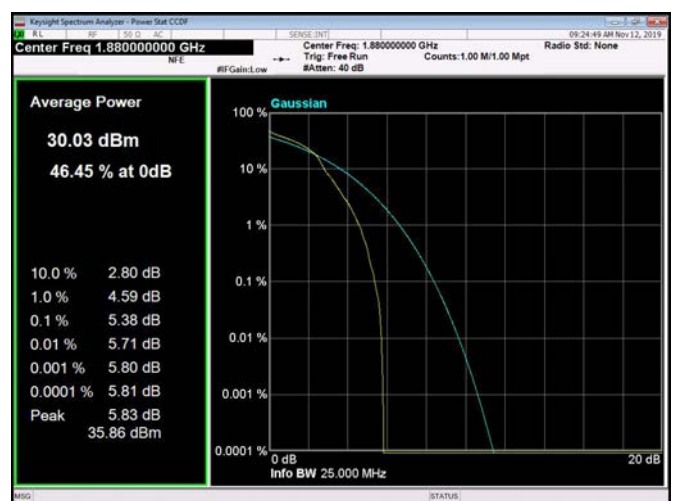


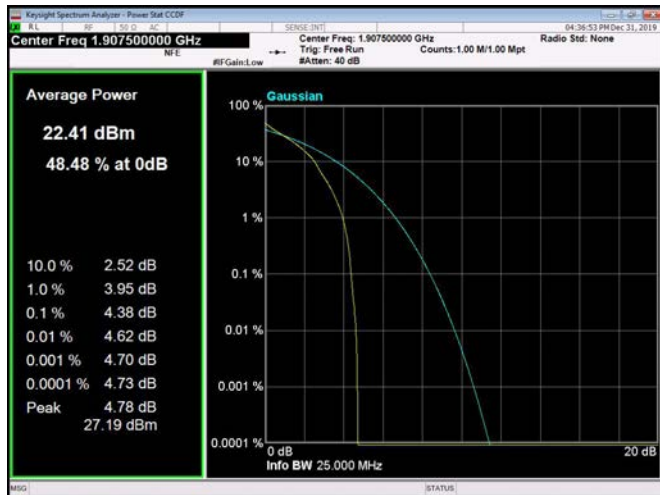
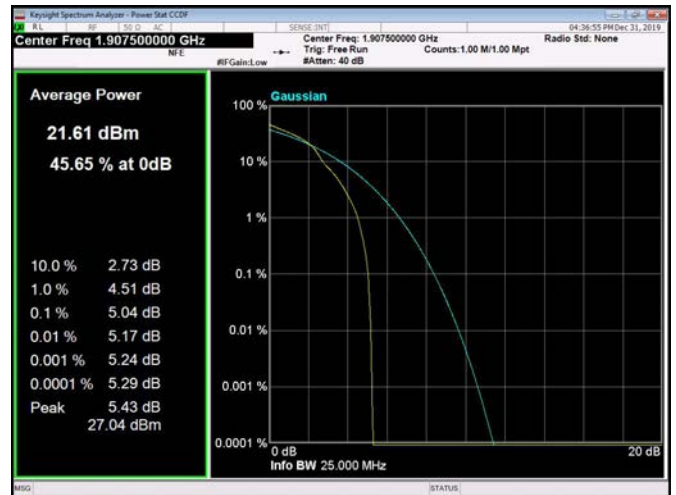
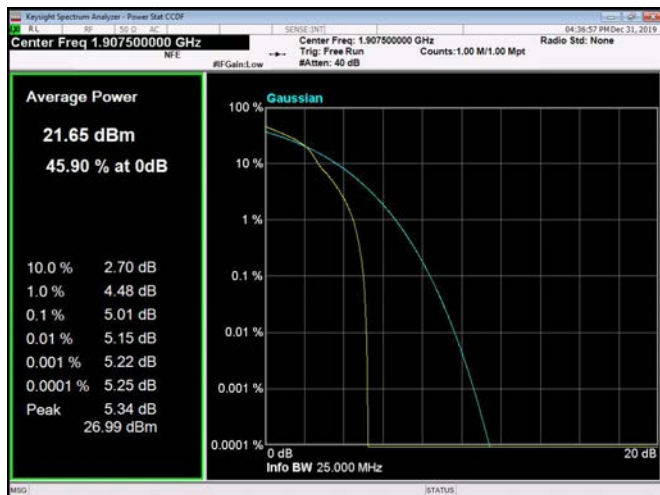
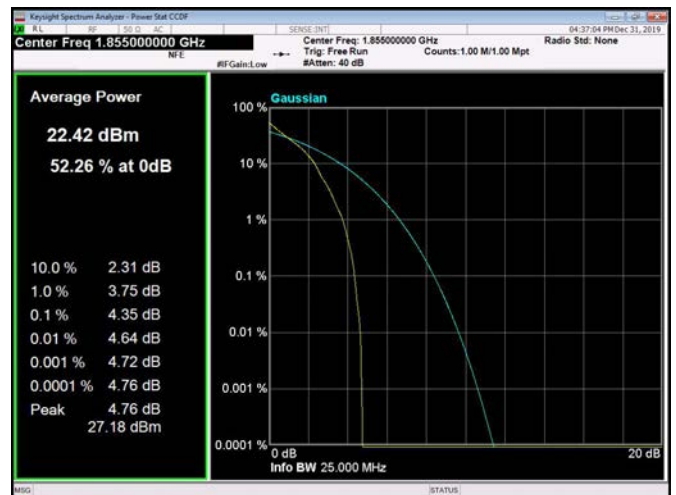
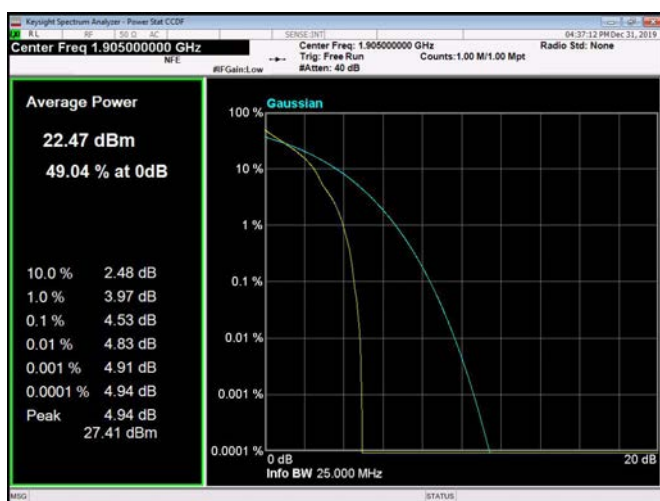
1.4MHz / 64QAM / Middle Channel



**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**

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