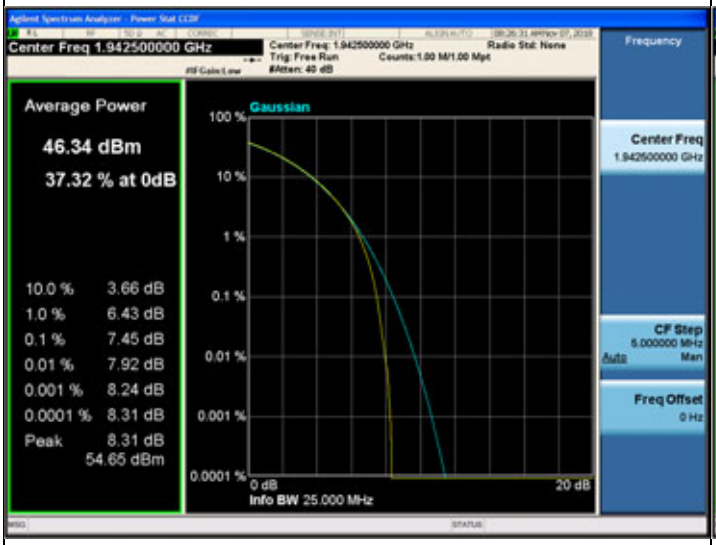
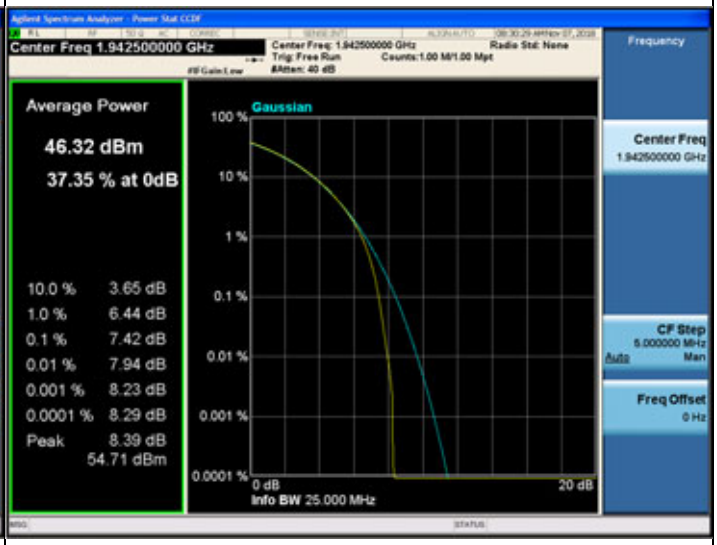
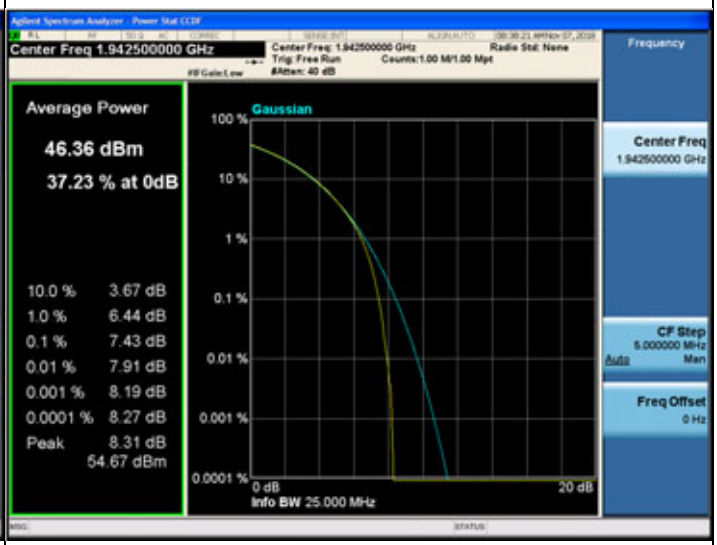
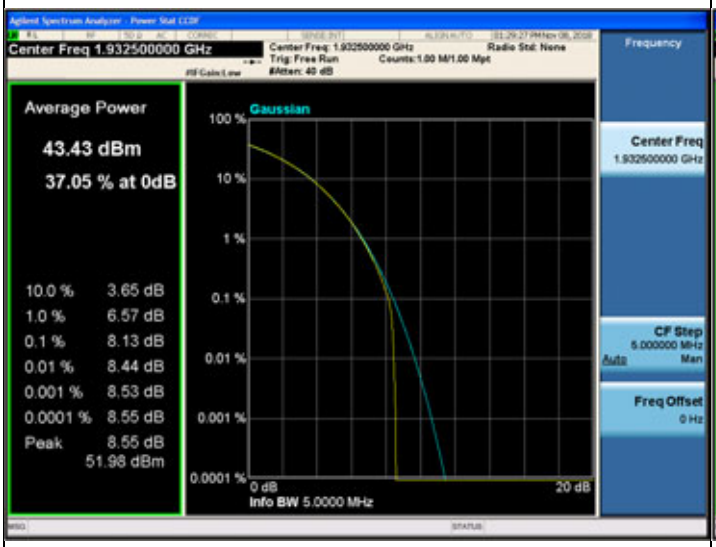
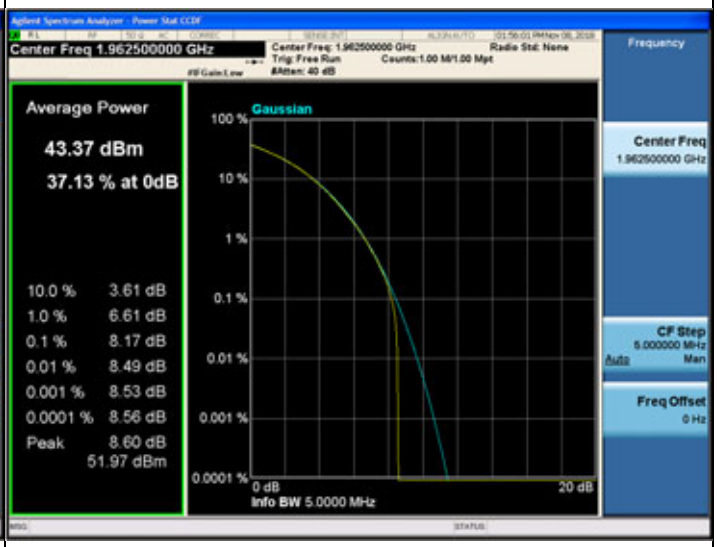
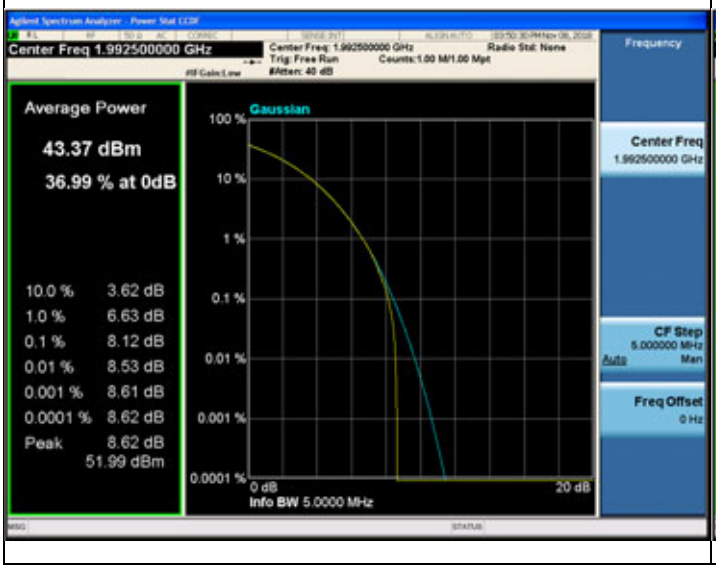
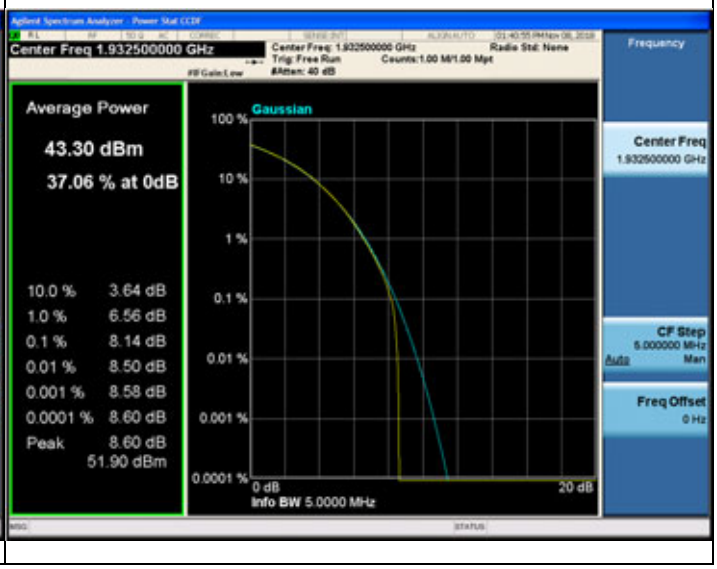
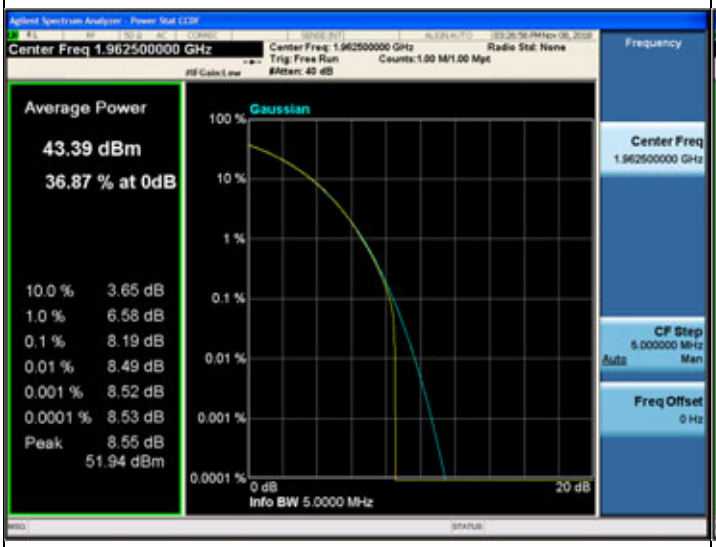
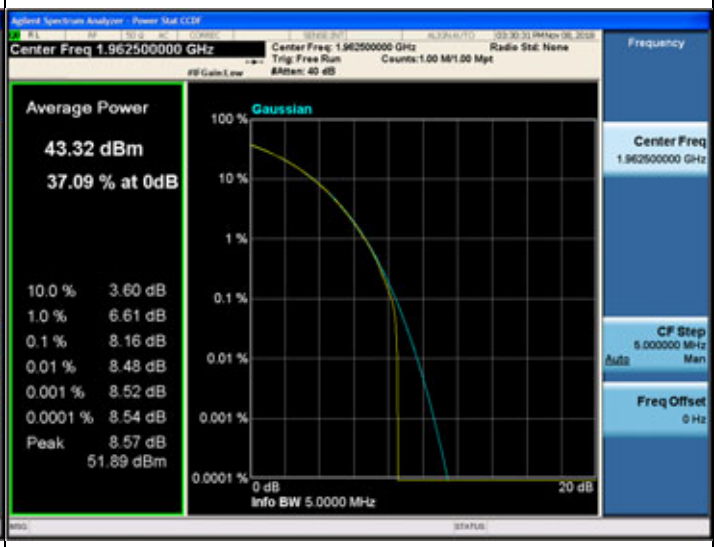
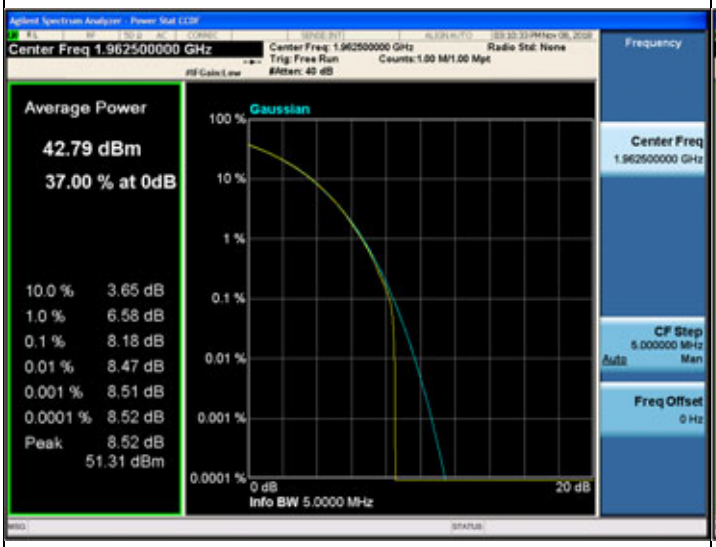
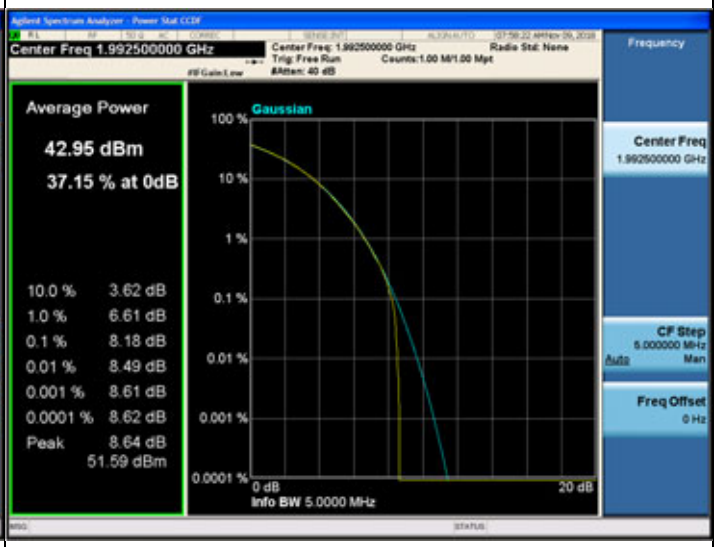
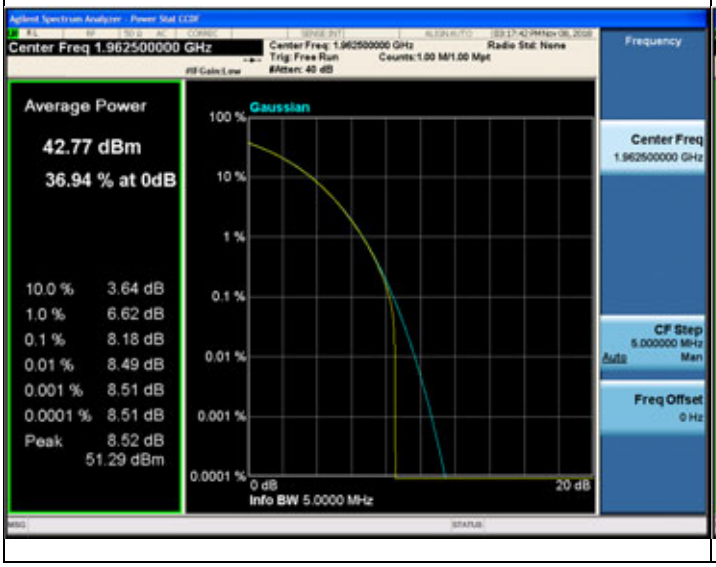
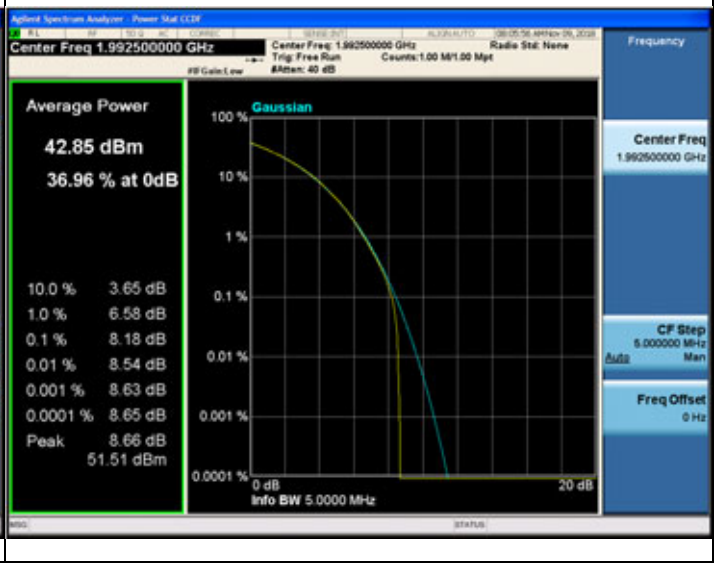
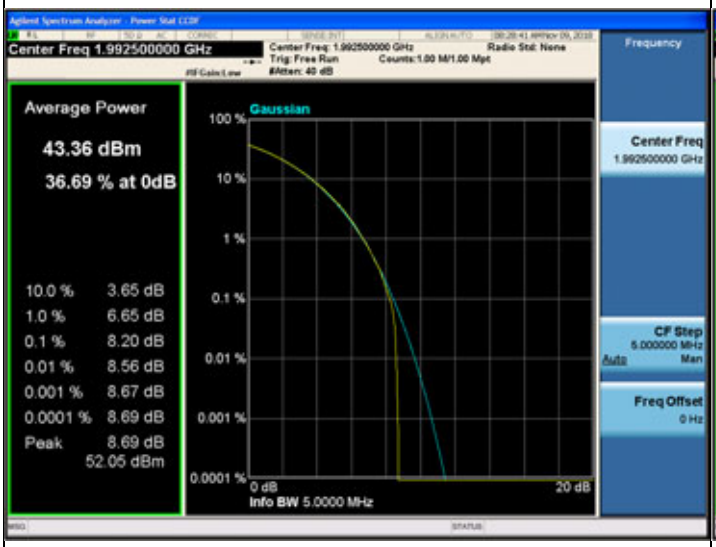
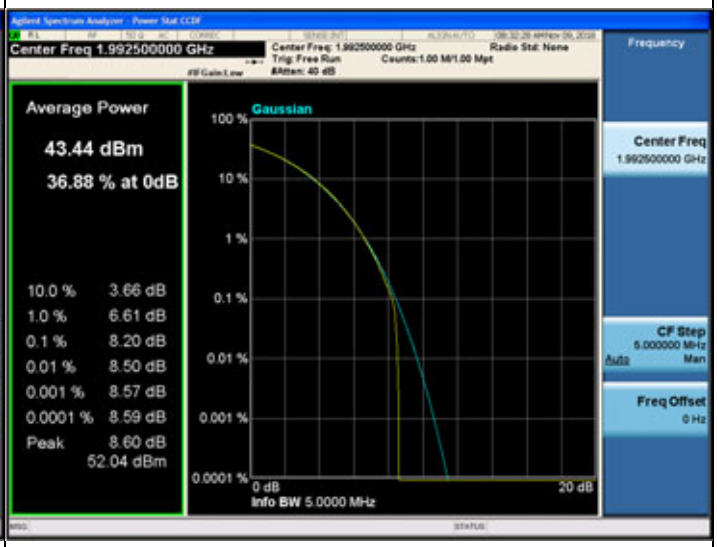
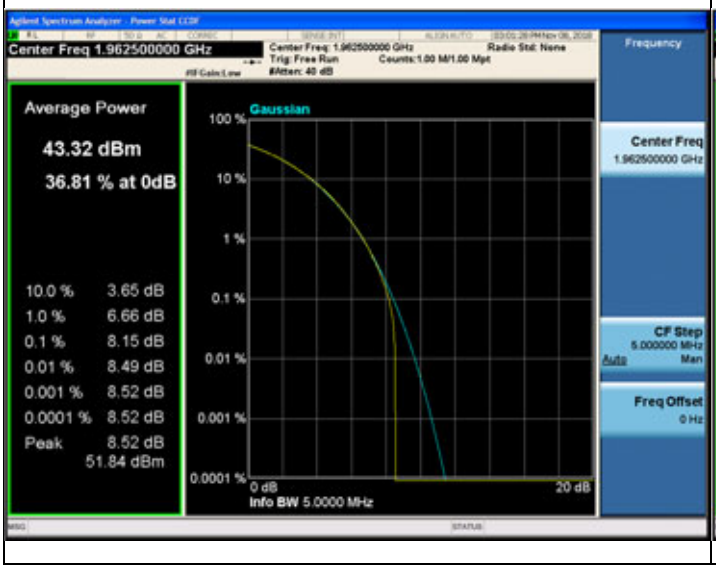
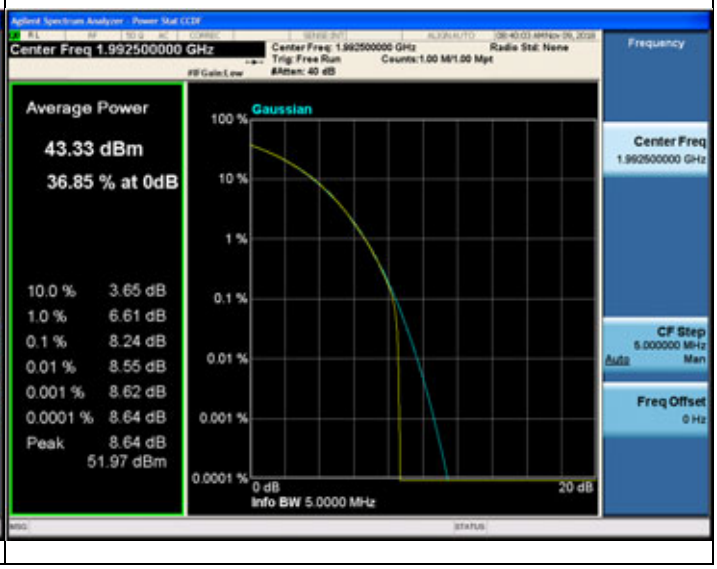
Port 3			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Low**	**Channel:**	**Low**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**Low**
		

Plot data of PAPR - 5 MHz Bandwidth / 1 Carrier

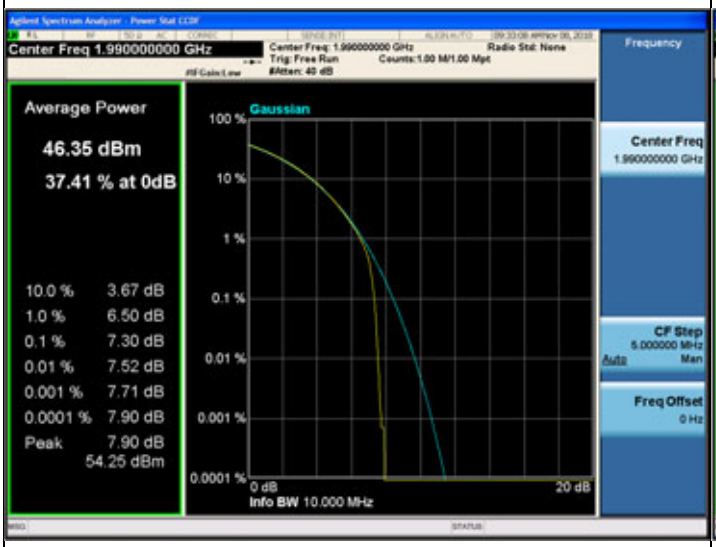
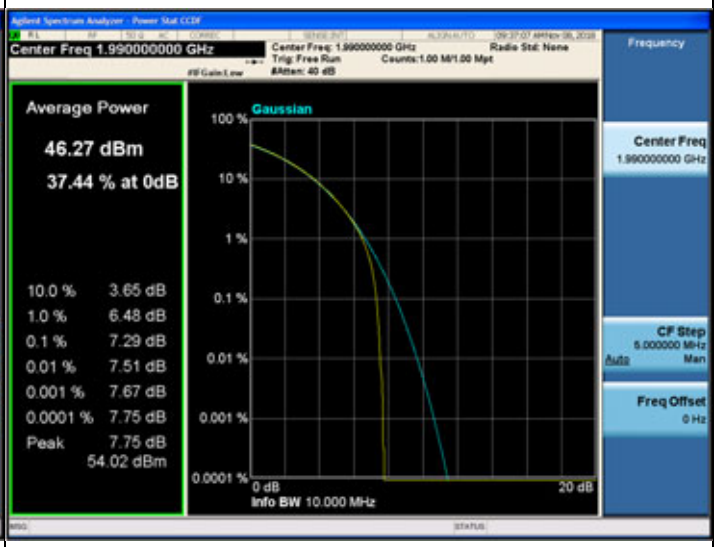
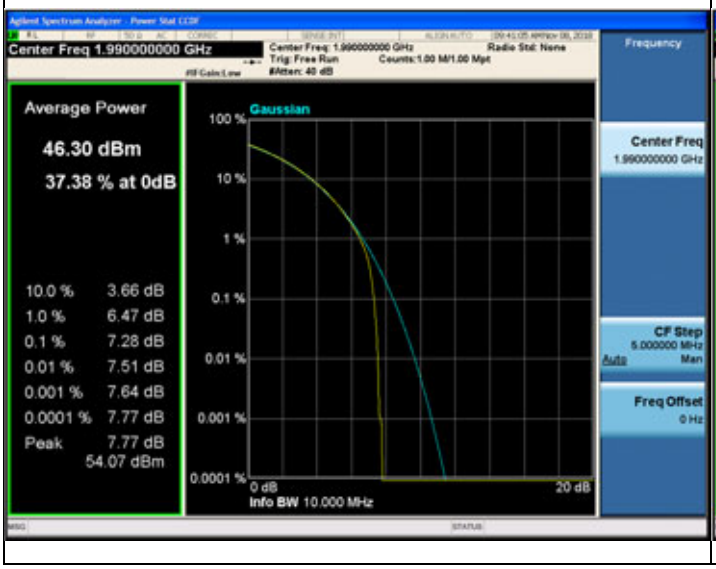
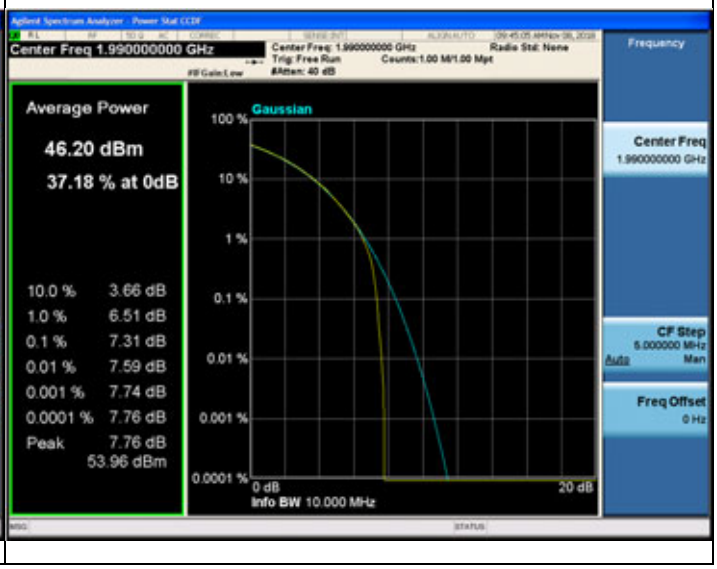
Port 0			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Low**	**Channel:**	**Middle**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**Low**
			

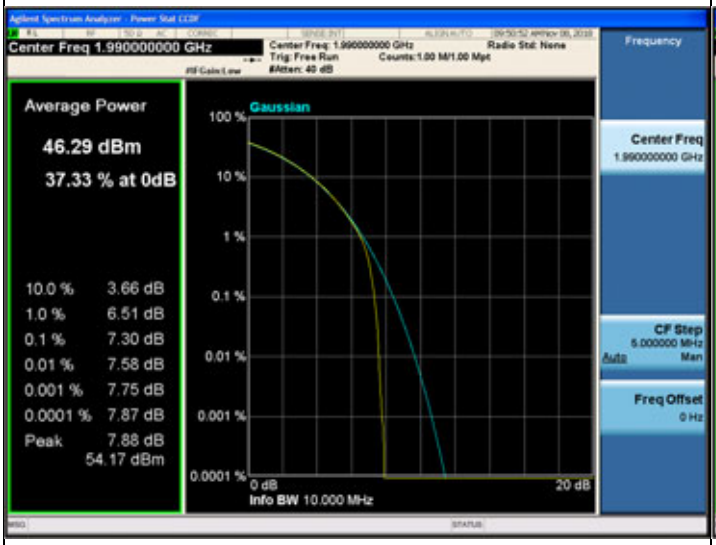
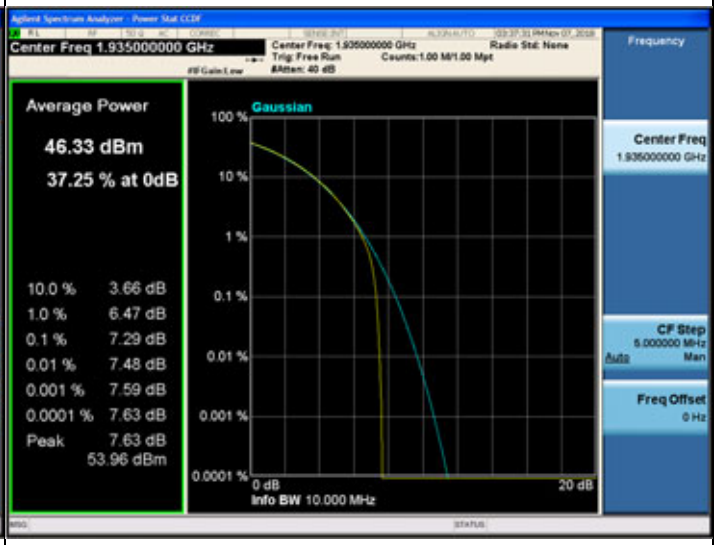
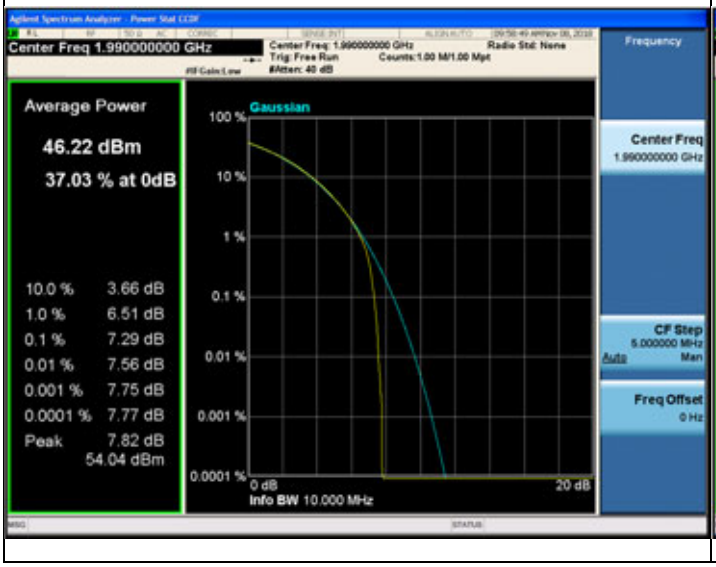
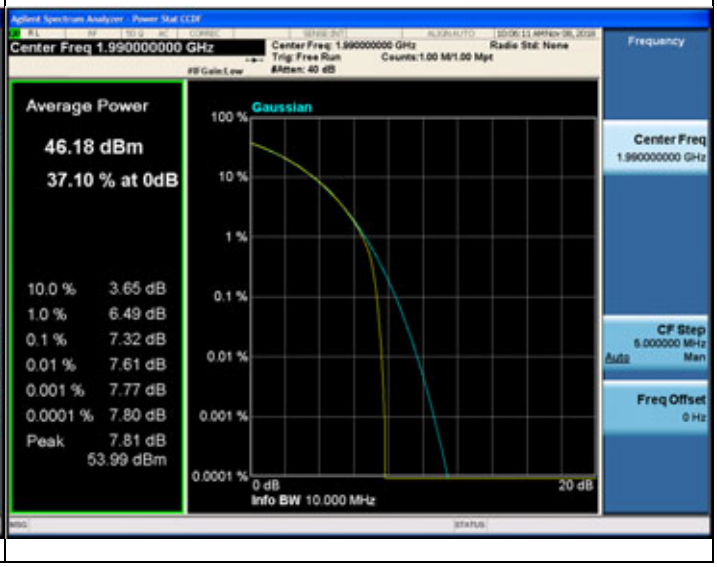
Port 1			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**Middle**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**High**
			

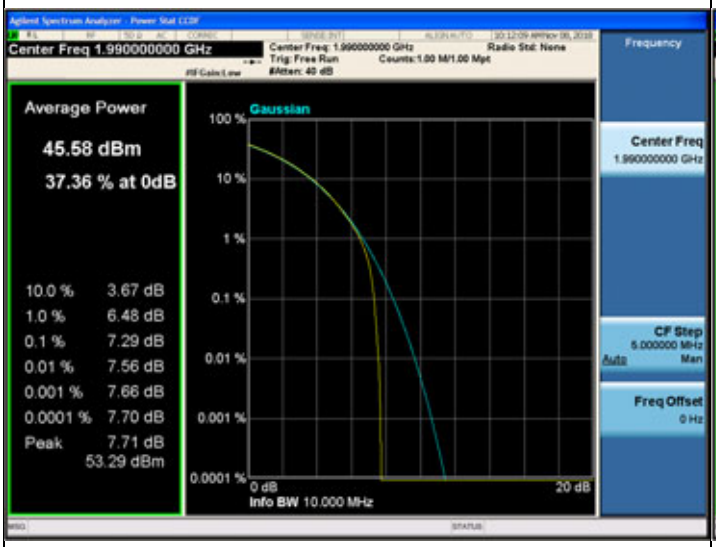
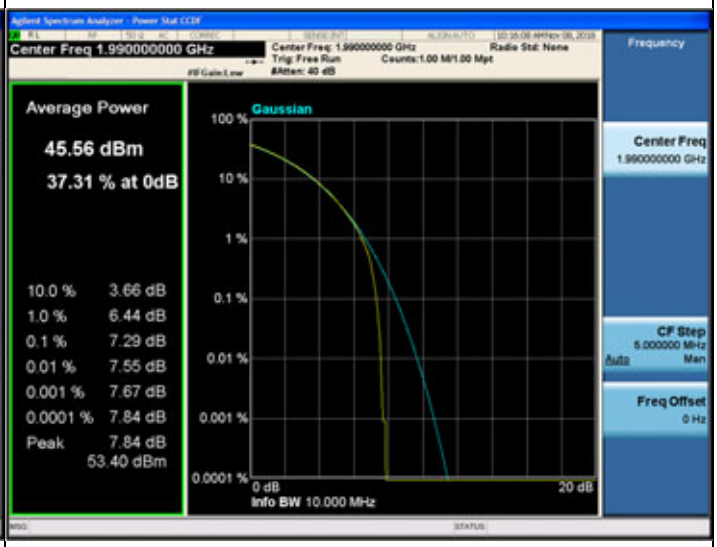
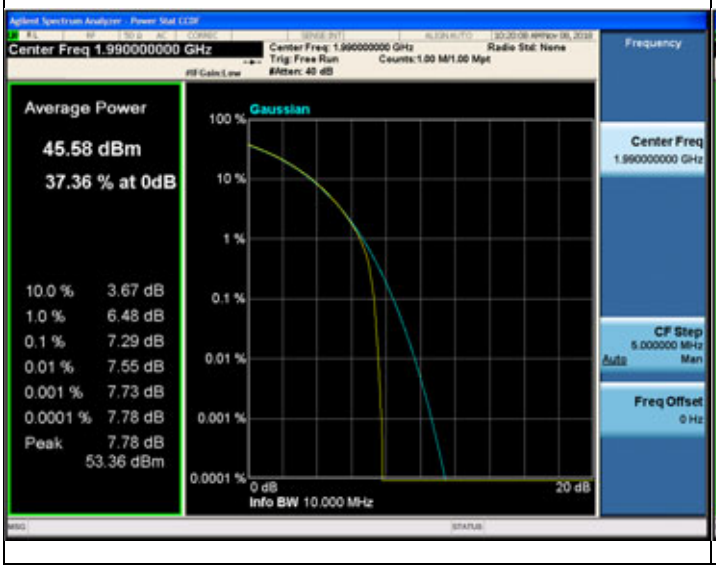
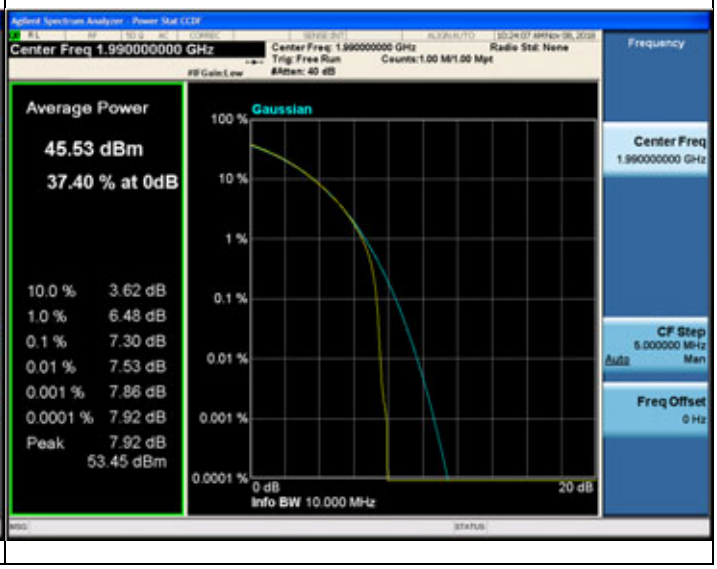
Port 2			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**High**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Middle**	**Channel:**	**High**
		

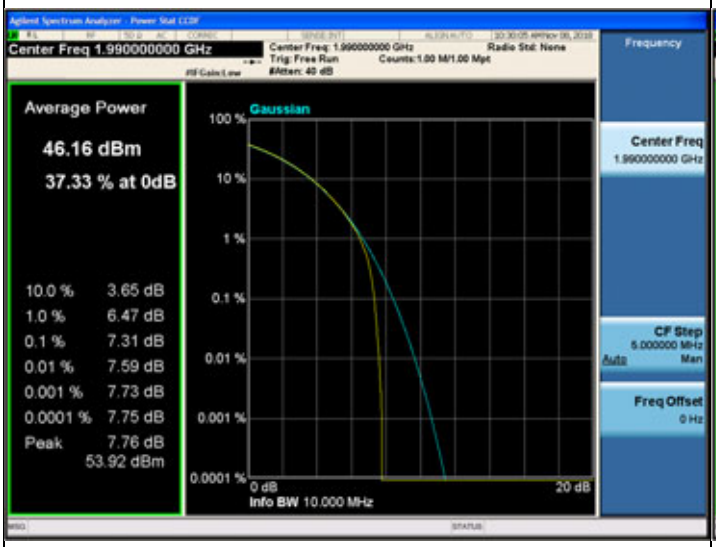
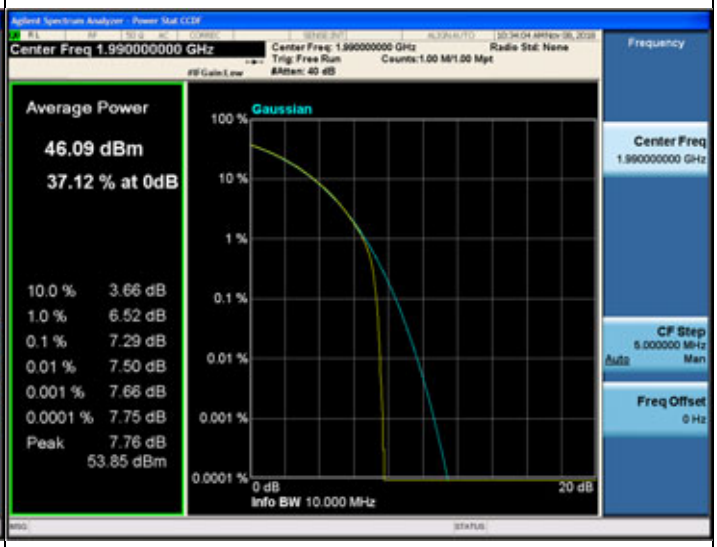
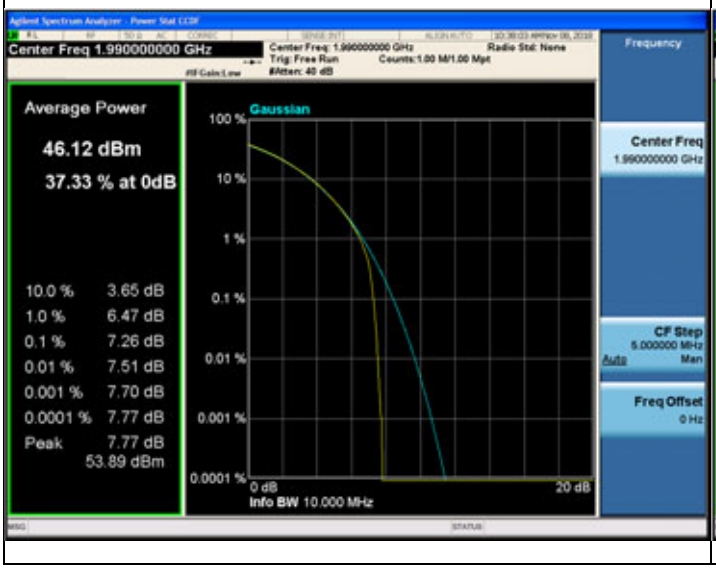
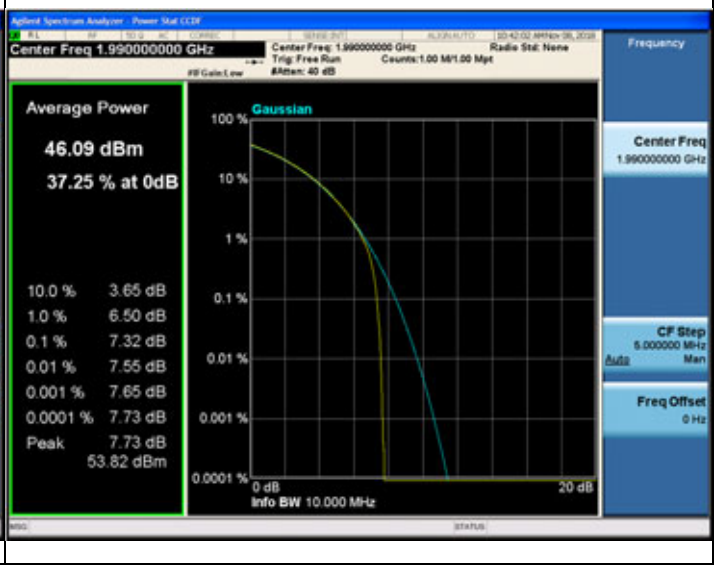
Port 3			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**High**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Middle**	**Channel:**	**High**
		

Plot data of PAPR - 5 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

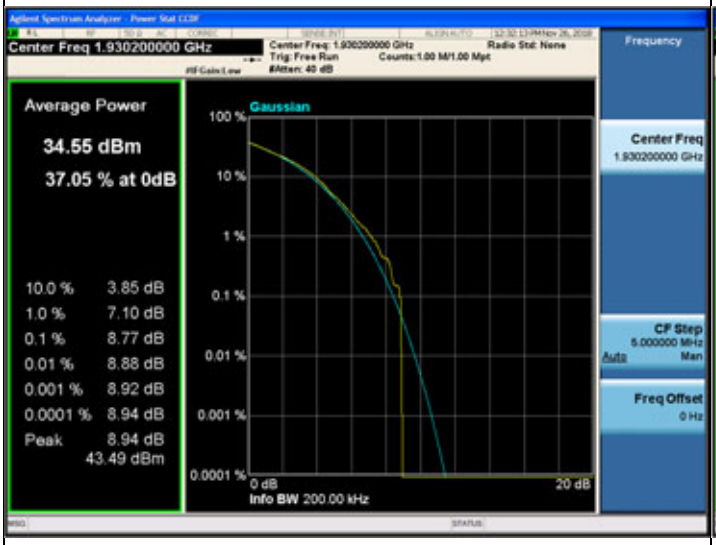
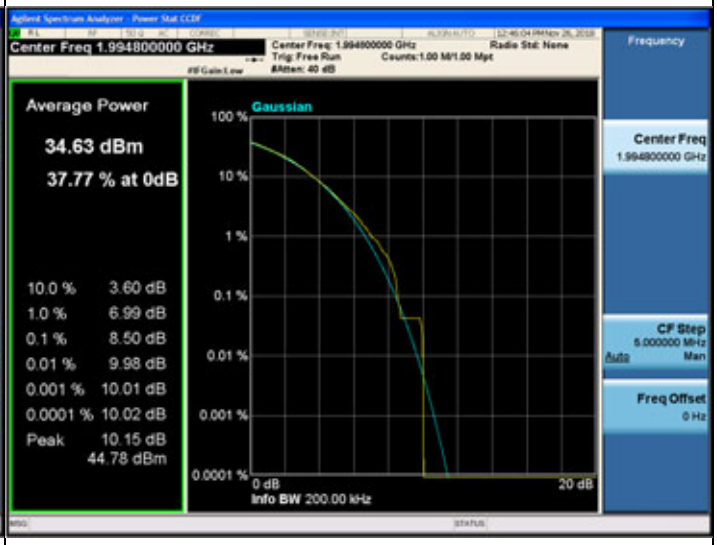
Port 0			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**High**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**High**
		

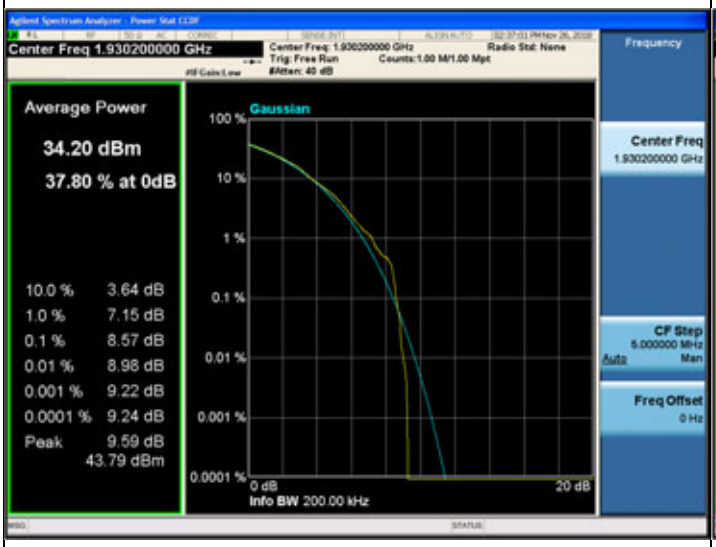
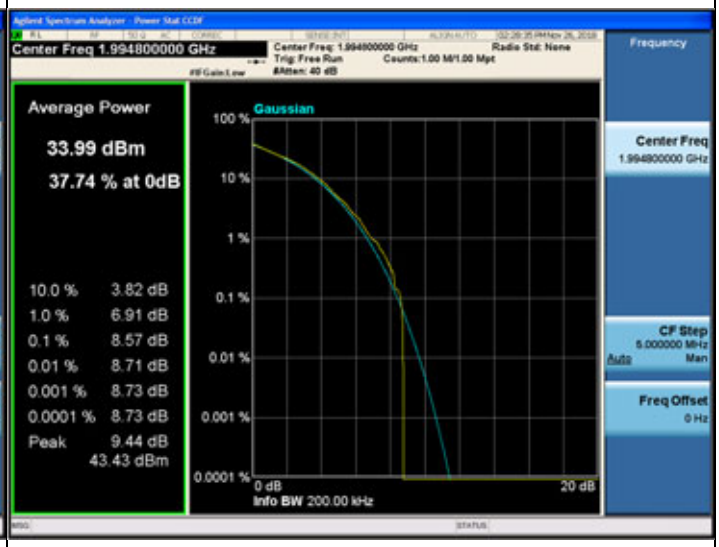
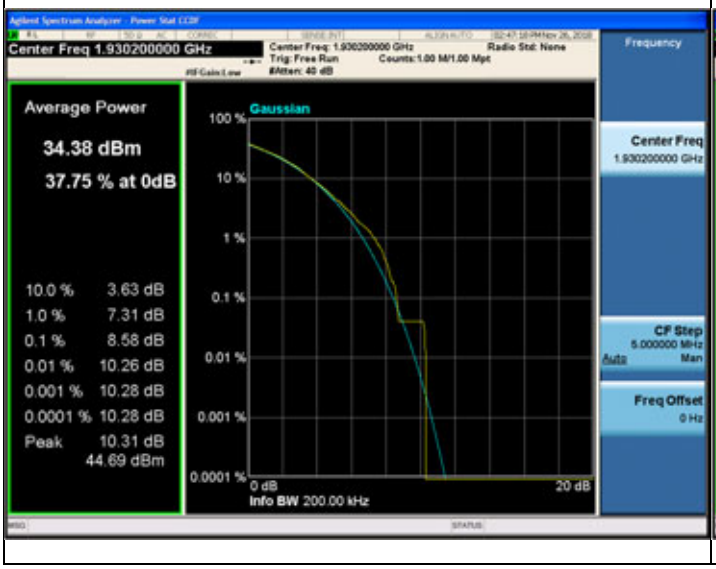
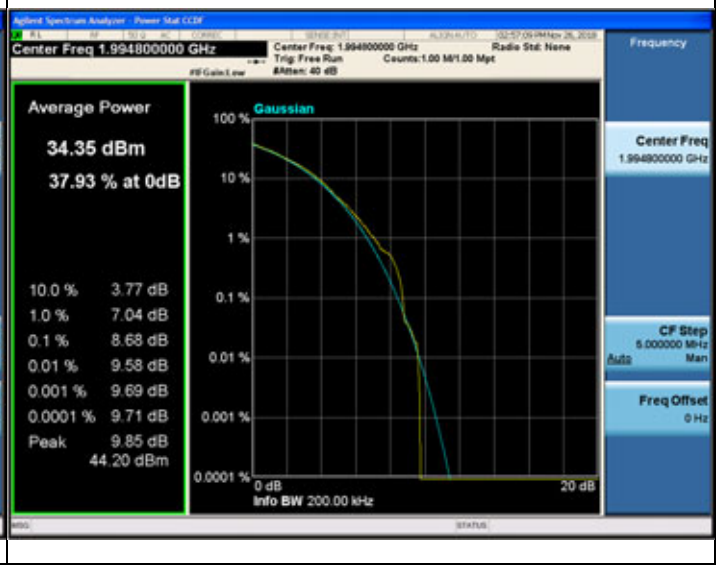
Port 1			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**Low**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**High**
		

Port 2			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**High**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**High**
			

Port 3			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**High**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**High**
		

Plot data of PAPR - 10 MHz Guard Band NB-IoT_BPSK

Port 0			
Channel:	**Low**	**Channel:**	**High**
			
Port 1			
Channel:	**Low**	**Channel:**	**High**
			

Port 2			
Channel:	**Low**	**Channel:**	**High**
			
Port 3			
Channel:	**Low**	**Channel:**	**High**
			

5.2. OCCUPIED BANDWIDTH

Test Requirements:

§ 2.1049 Measurements required: Occupied bandwidth.

The occupied bandwidth, that 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 shall be measured under the specified conditions of § 2.1049 (a) through (i) as applicable.

Test Procedures:

The measurement is performed in accordance with Section 5.4.3 and 5.4.4 of ANSI C63.26.

5.4.3 Occupied bandwidth—Relative measurement procedure

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.

b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.

c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.

NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.

d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “−X dB” requirement, i.e., if the requirement calls for measuring the −26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.

e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

f) Determine the reference value by either of the following:

1) Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the Highest level of the displayed trace (this is the reference value).

2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.

g) Determine the “−X dB amplitude” as equal to (Reference Value − X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.

h) If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used for step i).

i) Place two markers, one at the lowest and the other at the Highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “−X dB amplitude” determined in step f). If a marker is below this “−X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers. The spectral envelope can cross the “−X dB amplitude” at

multiple points. The lowest or Highest frequency shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the "−X dB amplitude."
j) The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

5.4.4 Occupied bandwidth—Power bandwidth (99%) measurement procedure
a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of 1.5 × OBW is sufficient).
b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.
d) Set the detection mode to peak, and the trace mode to max-hold.
e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

Test Results:

3 MHz Bandwidth / 1 Carrier

Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
Port 0	QPSK	Low	1 931.50	2.711 7
		Middle	1 962.50	2.716 0
		High	1 993.50	2.724 8
	16QAM	Low	1 931.50	2.703 7
		Middle	1 962.50	2.702 8
		High	1 993.50	2.706 2
	64QAM	Low	1 931.50	2.702 6
		Middle	1 962.50	2.705 5
		High	1 993.50	2.716 8
	256QAM	Low	1 931.50	2.718 5
		Middle	1 962.50	2.709 5
		High	1 993.50	2.704 7
Port 1	QPSK	Low	1 931.50	2.711 0
		Middle	1 962.50	2.712 5
		High	1 993.50	2.714 0
	16QAM	Low	1 931.50	2.723 1
		Middle	1 962.50	2.715 0
		High	1 993.50	2.697 3
	64QAM	Low	1 931.50	2.714 7
		Middle	1 962.50	2.709 9
		High	1 993.50	2.705 4
	256QAM	Low	1 931.50	2.704 4
		Middle	1 962.50	2.715 4
		High	1 993.50	2.714 5
Port 2	QPSK	Low	1 931.50	2.704 9
		Middle	1 962.50	2.703 5
		High	1 993.50	2.704 3
	16QAM	Low	1 931.50	2.711 7
		Middle	1 962.50	2.719 2
		High	1 993.50	2.704 9

Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
	64QAM	Low	1 931.50	2.709 2
		Middle	1 962.50	2.702 8
		High	1 993.50	2.704 1
	256QAM	Low	1 931.50	2.706 8
		Middle	1 962.50	2.705 1
		High	1 993.50	2.709 4
Port 3	QPSK	Low	1 931.50	2.710 6
		Middle	1 962.50	2.712 6
		High	1 993.50	2.718 5
	16QAM	Low	1 931.50	2.709 4
		Middle	1 962.50	2.728 8
		High	1 993.50	2.702 5
	64QAM	Low	1 931.50	2.714 5
		Middle	1 962.50	2.710 7
		High	1 993.50	2.718 1
	256QAM	Low	1 931.50	2.706 9
		Middle	1 962.50	2.710 2
		High	1 993.50	2.718 1

* This test report only contains the worst case plot data for each port and modulation.

3 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
Port 0	QPSK	Low	1 934.00	7.576 0
		Middle	1 962.50	7.580 3
		High	1 991.00	7.599 0
	16QAM	Low	1 934.00	7.569 9
		Middle	1 962.50	7.568 5
		High	1 991.00	7.559 9
	64QAM	Low	1 934.00	7.596 2
		Middle	1 962.50	7.585 6
		High	1 991.00	7.584 7
	256QAM	Low	1 934.00	7.587 3
		Middle	1 962.50	7.592 6
		High	1 991.00	7.599 9
Port 1	QPSK	Low	1 934.00	7.576 6
		Middle	1 962.50	7.591 6
		High	1 991.00	7.566 3
	16QAM	Low	1 934.00	7.598 4
		Middle	1 962.50	7.604 9
		High	1 991.00	7.560 0
	64QAM	Low	1 934.00	7.566 1
		Middle	1 962.50	7.576 2
		High	1 991.00	7.600 9
	256QAM	Low	1 934.00	7.584 0
		Middle	1 962.50	7.585 1
		High	1 991.00	7.554 3
Port 2	QPSK	Low	1 934.00	7.578 0
		Middle	1 962.50	7.575 7
		High	1 991.00	7.567 7
	16QAM	Low	1 934.00	7.592 4
		Middle	1 962.50	7.603 4
		High	1 991.00	7.596 7

Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
	64QAM	Low	1 934.00	7.570 8
		Middle	1 962.50	7.596 6
		High	1 991.00	7.587 3
	256QAM	Low	1 934.00	7.575 6
		Middle	1 962.50	7.572 2
		High	1 991.00	7.568 6
Port 3	QPSK	Low	1 934.00	7.563 9
		Middle	1 962.50	7.589 0
		High	1 991.00	7.584 6
	16QAM	Low	1 934.00	7.596 7
		Middle	1 962.50	7.588 4
		High	1 991.00	7.571 8
	64QAM	Low	1 934.00	7.579 6
		Middle	1 962.50	7.558 8
		High	1 991.00	7.575 4
	256QAM	Low	1 934.00	7.580 6
		Middle	1 962.50	7.579 8
		High	1 991.00	7.593 2

* This test report only contains the worst case plot data for each port and modulation.

20 MHz Bandwidth / 1 Carrier

Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
Port 0	QPSK	Low	1 940.00	17.938
		Middle	1 962.50	17.960
		High	1 985.00	17.905
	16QAM	Low	1 940.00	17.976
		Middle	1 962.50	17.974
		High	1 985.00	17.988
	64QAM	Low	1 940.00	17.929
		Middle	1 962.50	17.910
		High	1 985.00	17.963
	256QAM	Low	1 940.00	17.959
		Middle	1 962.50	17.936
		High	1 985.00	17.968
Port 1	QPSK	Low	1 940.00	17.922
		Middle	1 962.50	17.939
		High	1 985.00	17.934
	16QAM	Low	1 940.00	17.885
		Middle	1 962.50	17.989
		High	1 985.00	17.939
	64QAM	Low	1 940.00	17.910
		Middle	1 962.50	17.943
		High	1 985.00	17.942
	256QAM	Low	1 940.00	17.935
		Middle	1 962.50	17.962
		High	1 985.00	17.938
Port 2	QPSK	Low	1 940.00	17.935
		Middle	1 962.50	17.977
		High	1 985.00	17.956
	16QAM	Low	1 940.00	17.963
		Middle	1 962.50	17.974
		High	1 985.00	17.963

Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
	64QAM	Low	1 940.00	17.949
		Middle	1 962.50	17.989
		High	1 985.00	17.901
	256QAM	Low	1 940.00	17.922
		Middle	1 962.50	17.928
		High	1 985.00	17.932
Port 3	QPSK	Low	1 940.00	17.958
		Middle	1 962.50	17.949
		High	1 985.00	17.955
	16QAM	Low	1 940.00	18.004
		Middle	1 962.50	17.954
		High	1 985.00	18.009
	64QAM	Low	1 940.00	17.942
		Middle	1 962.50	17.984
		High	1 985.00	17.961
	256QAM	Low	1 940.00	17.929
		Middle	1 962.50	17.959
		High	1 985.00	17.915

* This test report only contains the worst case plot data for each port and modulation.

20 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
Port 0	QPSK	Low	1 942.50	23.726
		Middle	1 962.50	23.768
		High	1 982.50	23.743
	16QAM	Low	1 942.50	23.800
		Middle	1 962.50	23.650
		High	1 982.50	23.719
	64QAM	Low	1 942.50	23.709
		Middle	1 962.50	23.756
		High	1 982.50	23.774
	256QAM	Low	1 942.50	23.739
		Middle	1 962.50	23.657
		High	1 982.50	23.715
Port 1	QPSK	Low	1 942.50	23.730
		Middle	1 962.50	23.683
		High	1 982.50	23.724
	16QAM	Low	1 942.50	23.717
		Middle	1 962.50	23.672
		High	1 982.50	23.711
	64QAM	Low	1 942.50	23.736
		Middle	1 962.50	23.731
		High	1 982.50	23.506
	256QAM	Low	1 942.50	23.712
		Middle	1 962.50	23.709
		High	1 982.50	23.720
Port 2	QPSK	Low	1 942.50	23.663
		Middle	1 962.50	23.694
		High	1 982.50	23.710
	16QAM	Low	1 942.50	23.662
		Middle	1 962.50	23.671
		High	1 982.50	23.713

Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
	64QAM	Low	1 942.50	23.709
		Middle	1 962.50	23.422
		High	1 982.50	23.702
	256QAM	Low	1 942.50	23.700
		Middle	1 962.50	23.687
		High	1 982.50	23.699
Port 3	QPSK	Low	1 942.50	23.717
		Middle	1 962.50	23.758
		High	1 982.50	23.698
	16QAM	Low	1 942.50	23.632
		Middle	1 962.50	23.684
		High	1 982.50	23.723
	64QAM	Low	1 942.50	23.737
		Middle	1 962.50	23.706
		High	1 982.50	23.716
	256QAM	Low	1 942.50	23.669
		Middle	1 962.50	23.743
		High	1 982.50	23.718

* This test report only contains the worst case plot data for each port and modulation.

5 MHz Bandwidth / 1 Carrier

Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
Port 0	QPSK	Low	1 932.50	4.489 1
		Middle	1 962.50	4.495 4
		High	1 992.50	4.488 9
	16QAM	Low	1 932.50	4.473 4
		Middle	1 962.50	4.478 9
		High	1 992.50	4.475 1
	64QAM	Low	1 932.50	4.498 7
		Middle	1 962.50	4.500 2
		High	1 992.50	4.500 7
	256QAM	Low	1 932.50	4.508 0
		Middle	1 962.50	4.501 7
		High	1 992.50	4.498 9
Port 1	QPSK	Low	1 932.50	4.491 9
		Middle	1 962.50	4.494 5
		High	1 992.50	4.489 8
	16QAM	Low	1 932.50	4.494 8
		Middle	1 962.50	4.483 0
		High	1 992.50	4.478 1
	64QAM	Low	1 932.50	4.499 4
		Middle	1 962.50	4.497 3
		High	1 992.50	4.493 7
	256QAM	Low	1 932.50	4.503 6
		Middle	1 962.50	4.505 2
		High	1 992.50	4.505 4
Port 2	QPSK	Low	1 932.50	4.490 9
		Middle	1 962.50	4.490 5
		High	1 992.50	4.489 8
	16QAM	Low	1 932.50	4.476 6
		Middle	1 962.50	4.484 9
		High	1 992.50	4.481 6

Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
	64QAM	Low	1 932.50	4.501 6
		Middle	1 962.50	4.492 6
		High	1 992.50	4.490 1
	256QAM	Low	1 932.50	4.494 5
		Middle	1 962.50	4.485 0
		High	1 992.50	4.493 7
Port 3	QPSK	Low	1 932.50	4.493 3
		Middle	1 962.50	4.492 2
		High	1 992.50	4.488 4
	16QAM	Low	1 932.50	4.484 6
		Middle	1 962.50	4.480 6
		High	1 992.50	4.489 8
	64QAM	Low	1 932.50	4.470 6
		Middle	1 962.50	4.505 3
		High	1 992.50	4.485 0
	256QAM	Low	1 932.50	4.494 8
		Middle	1 962.50	4.502 7
		High	1 992.50	4.500 8

* This test report only contains the worst case plot data for each port and modulation.

5 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
Port 0	QPSK	Low	1 935.00	9.480 9
		Middle	1 962.50	9.470 2
		High	1 990.00	9.471 8
	16QAM	Low	1 935.00	9.436 5
		Middle	1 962.50	9.457 0
		High	1 990.00	9.415 7
	64QAM	Low	1 935.00	9.464 2
		Middle	1 962.50	9.479 8
		High	1 990.00	9.467 0
	256QAM	Low	1 935.00	9.482 4
		Middle	1 962.50	9.489 5
		High	1 990.00	9.482 1
Port 1	QPSK	Low	1 935.00	9.473 8
		Middle	1 962.50	9.476 2
		High	1 990.00	9.478 3
	16QAM	Low	1 935.00	9.462 8
		Middle	1 962.50	9.440 3
		High	1 990.00	9.488 0
	64QAM	Low	1 935.00	9.448 8
		Middle	1 962.50	9.451 4
		High	1 990.00	9.476 0
	256QAM	Low	1 935.00	9.472 9
		Middle	1 962.50	9.460 0
		High	1 990.00	9.480 7
Port 2	QPSK	Low	1 935.00	9.473 3
		Middle	1 962.50	9.487 8
		High	1 990.00	9.461 8
	16QAM	Low	1 935.00	9.459 4
		Middle	1 962.50	9.471 9
		High	1 990.00	9.471 6

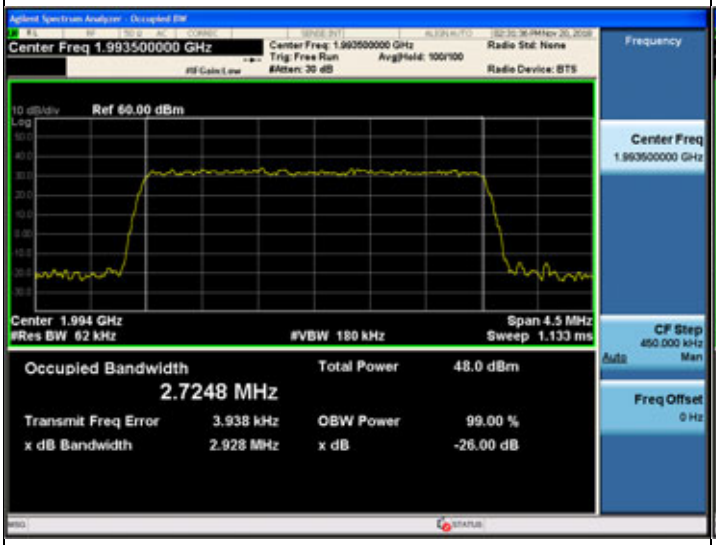
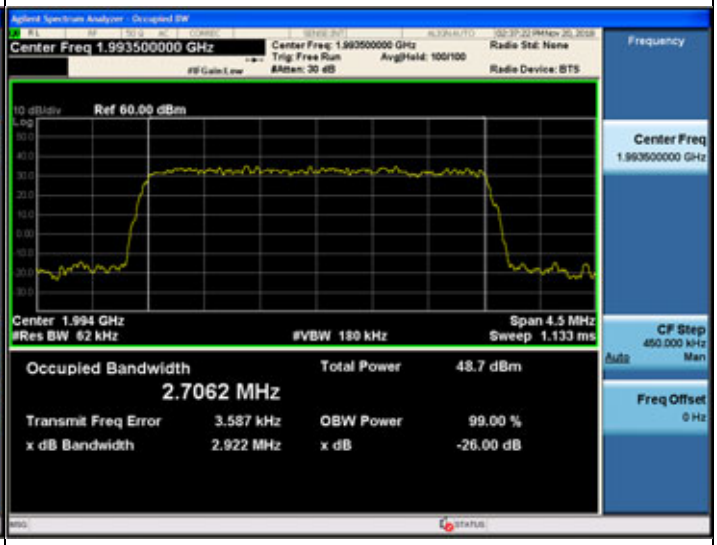
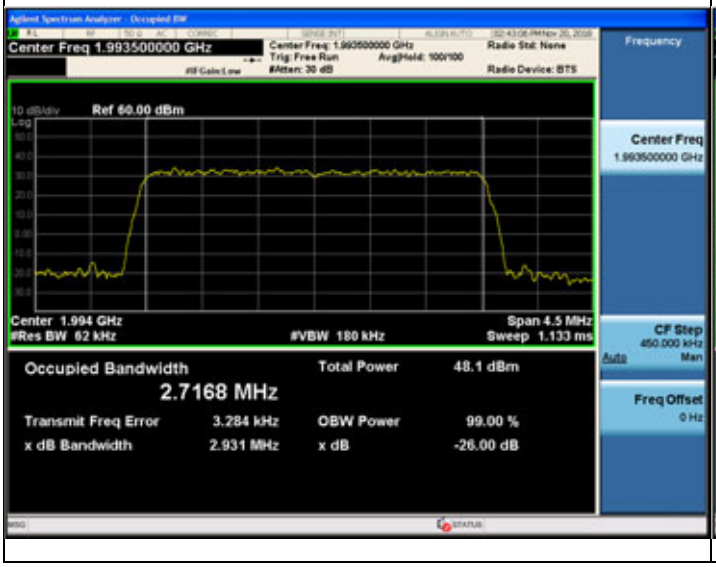
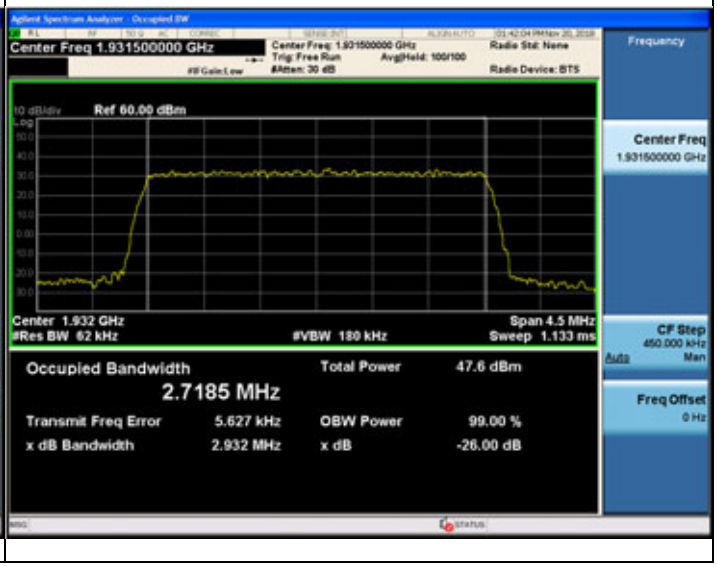
Port	Modulation	Channel	Frequency (MHz)	Measured Bandwidth (MHz)
	64QAM	Low	1 935.00	9.462 4
		Middle	1 962.50	9.479 5
		High	1 990.00	9.482 5
	256QAM	Low	1 935.00	9.477 2
		Middle	1 962.50	9.494 6
		High	1 990.00	9.474 1
Port 3	QPSK	Low	1 935.00	9.476 3
		Middle	1 962.50	9.466 4
		High	1 990.00	9.480 9
	16QAM	Low	1 935.00	9.463 8
		Middle	1 962.50	9.479 7
		High	1 990.00	9.426 9
	64QAM	Low	1 935.00	9.472 7
		Middle	1 962.50	9.466 9
		High	1 990.00	9.460 5
	256QAM	Low	1 935.00	9.478 7
		Middle	1 962.50	9.470 4
		High	1 990.00	9.479 8

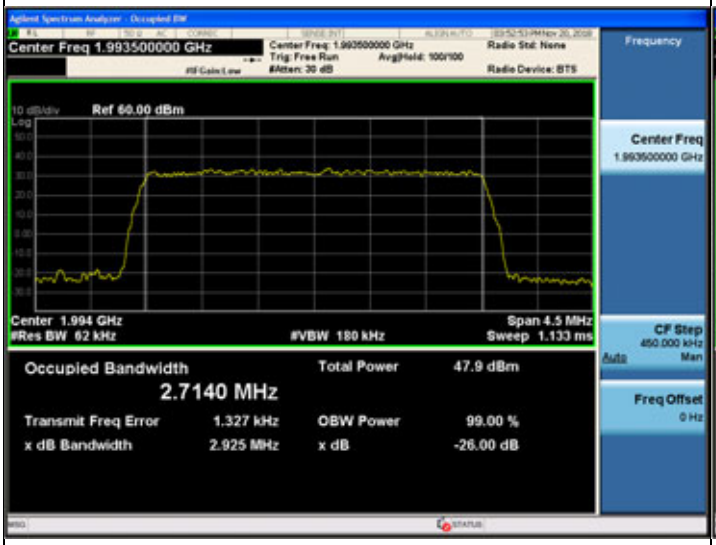
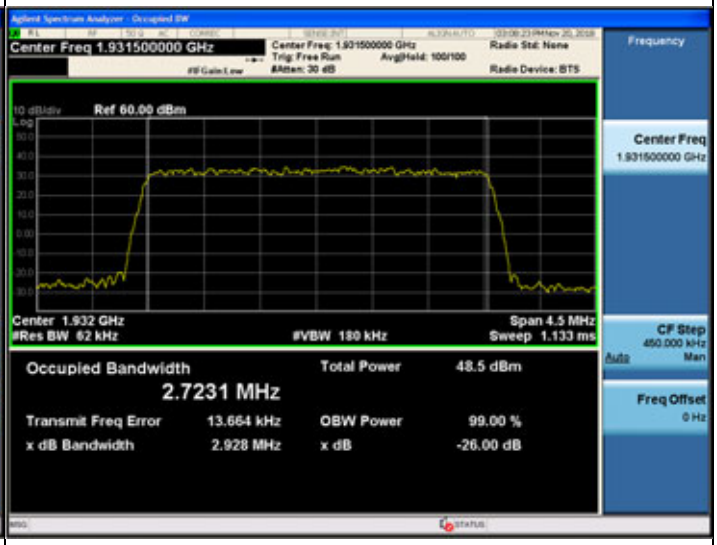
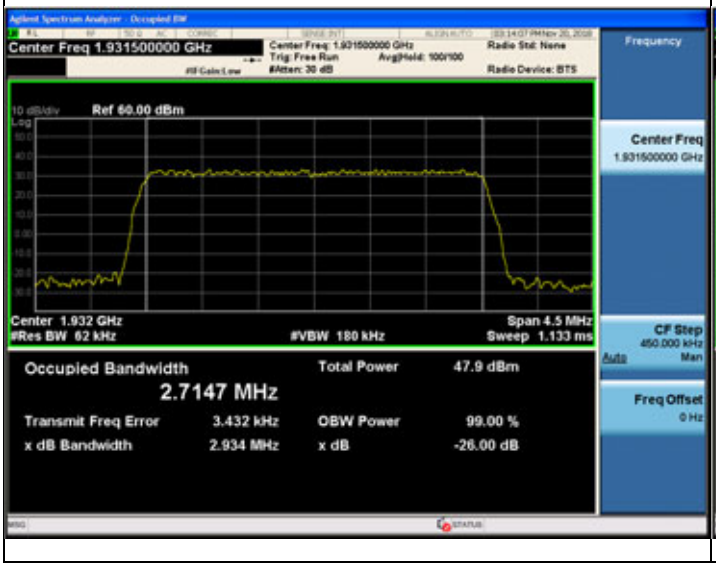
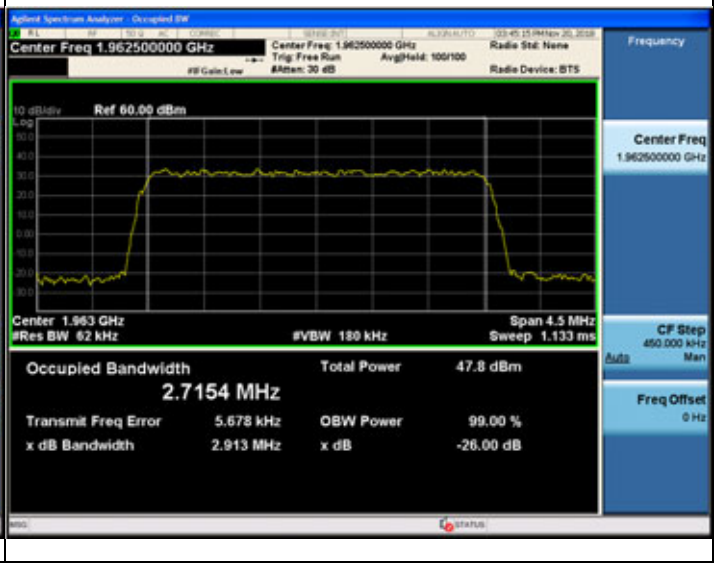
* This test report only contains the worst case plot data for each port and modulation.

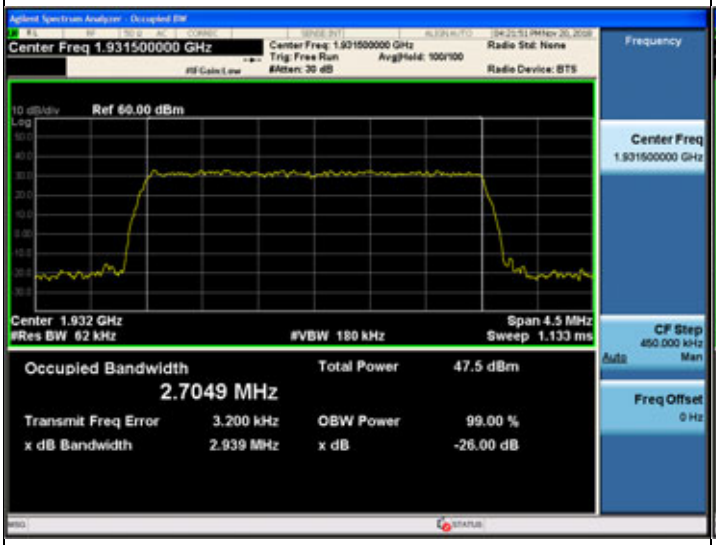
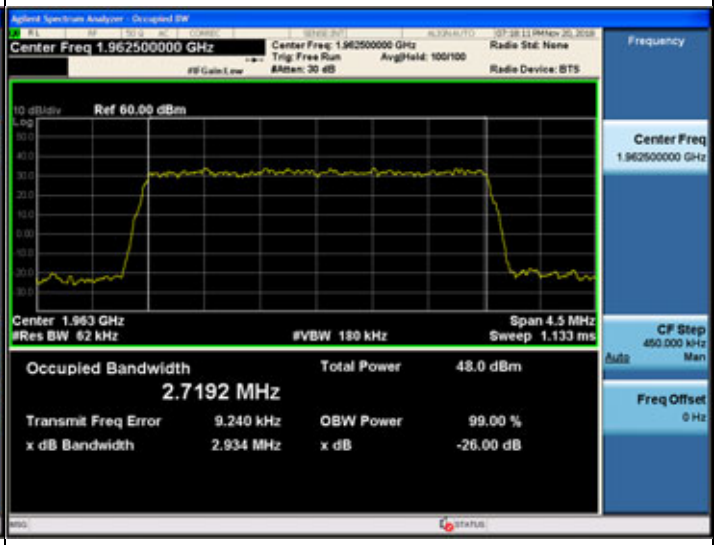
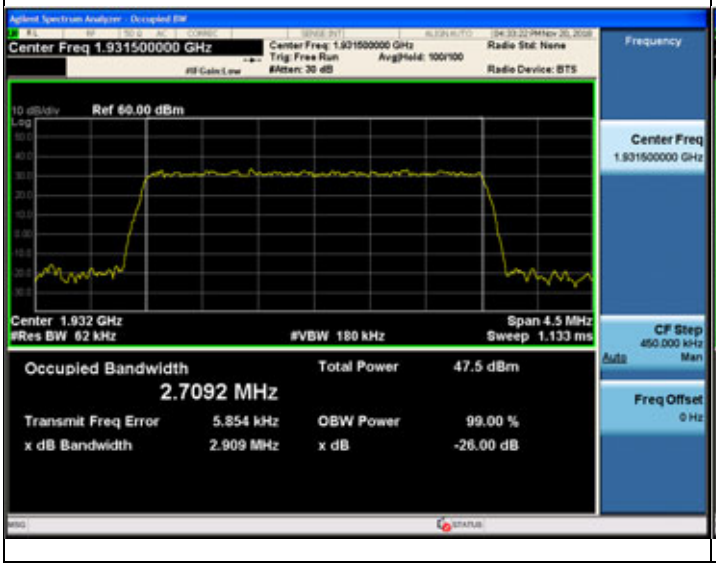
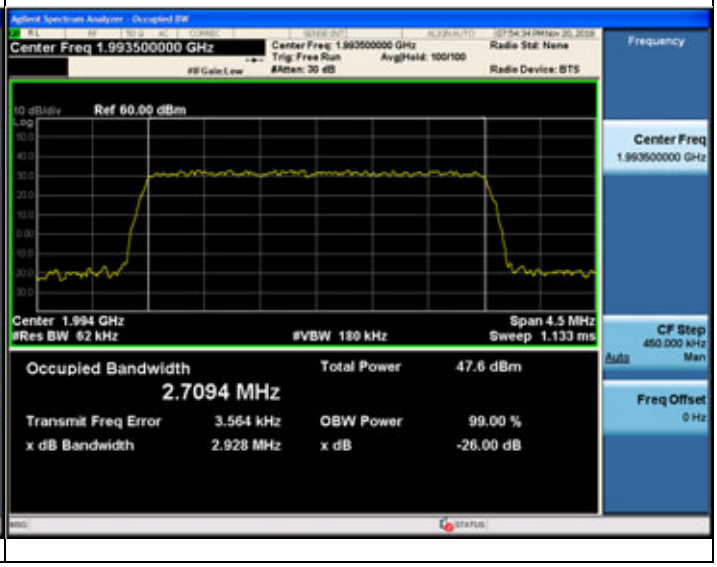
10 MHz Guard Band NB-IoT

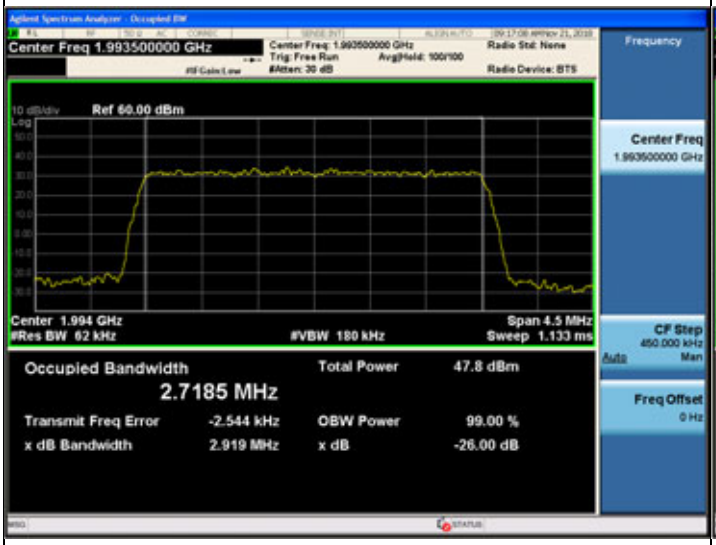
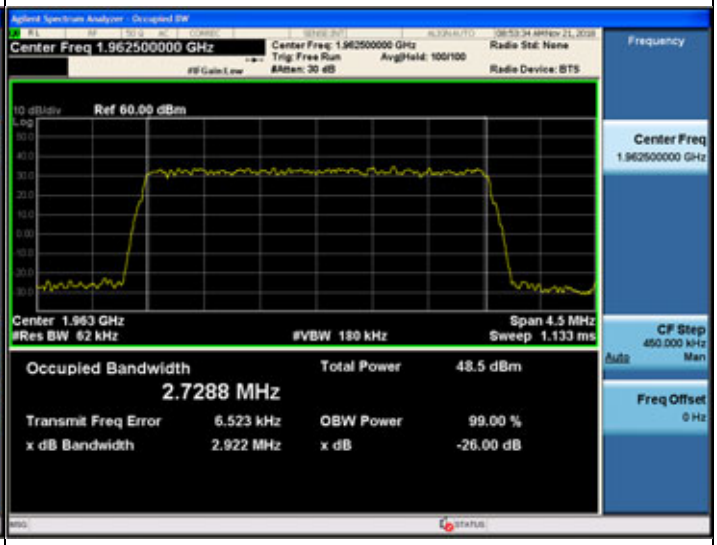
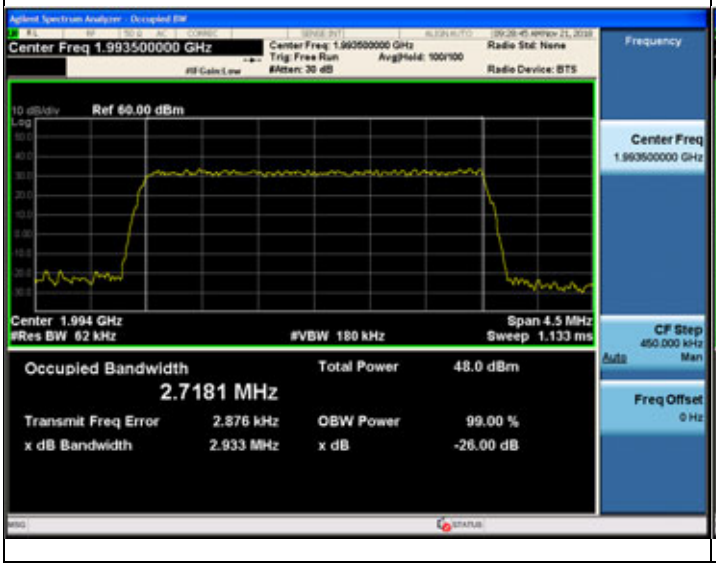
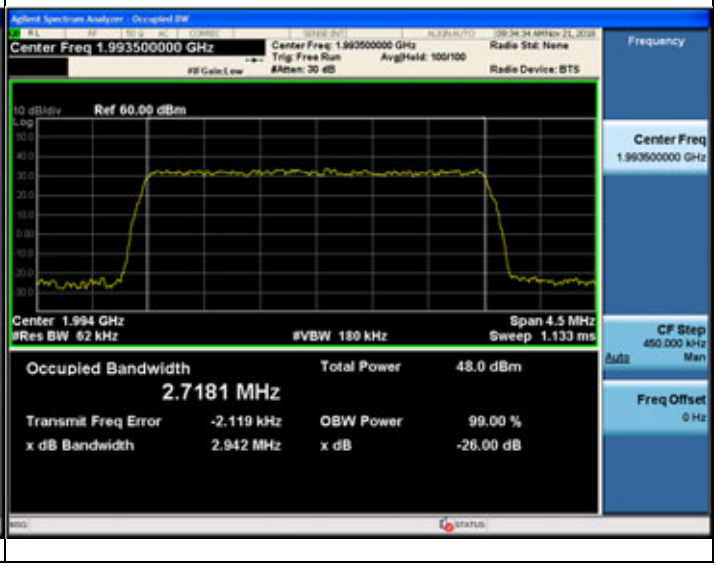
Port	Modulation	Channel	Frequency (MHz)	Measured Value (kHz)
0	BPSK	Low	1 930.20	198.14
		High	1 994.80	195.96
1		Low	1 930.20	203.11
		High	1 994.80	195.07
2		Low	1 930.20	197.54
		High	1 994.80	195.10
3		Low	1 930.20	200.33
		High	1 994.80	195.12

Plots of Occupied Bandwidth - 3 MHz Bandwidth / 1 Carrier

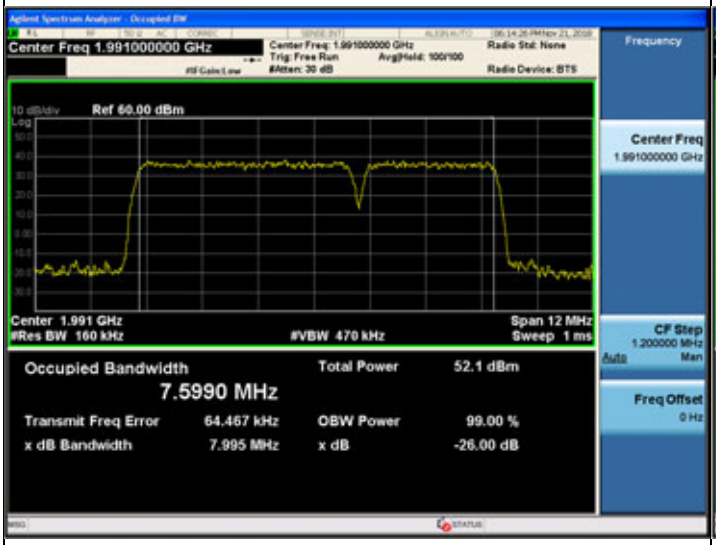
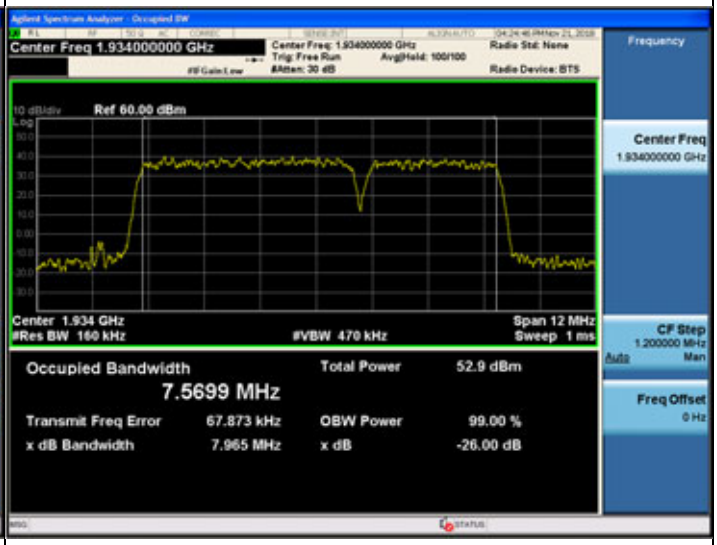
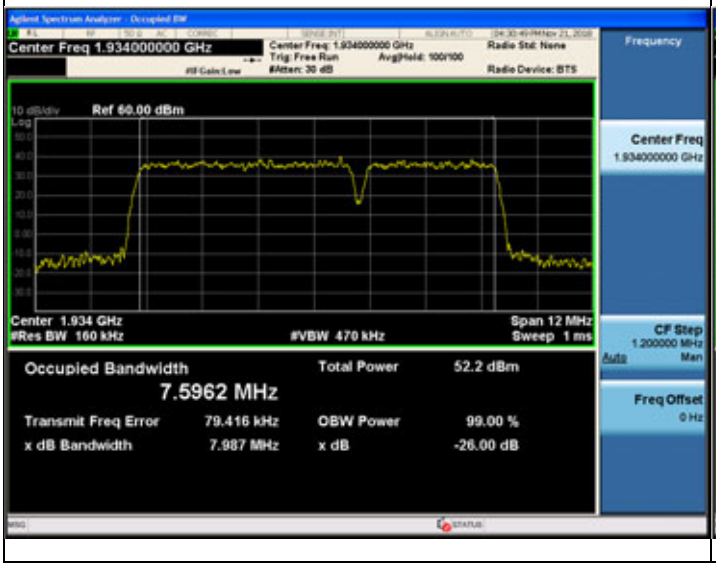
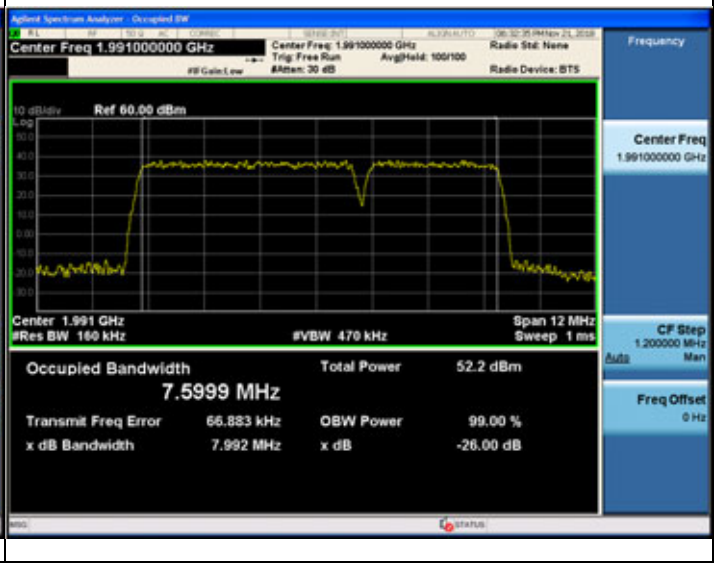
Port 0			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**High**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**Low**
			

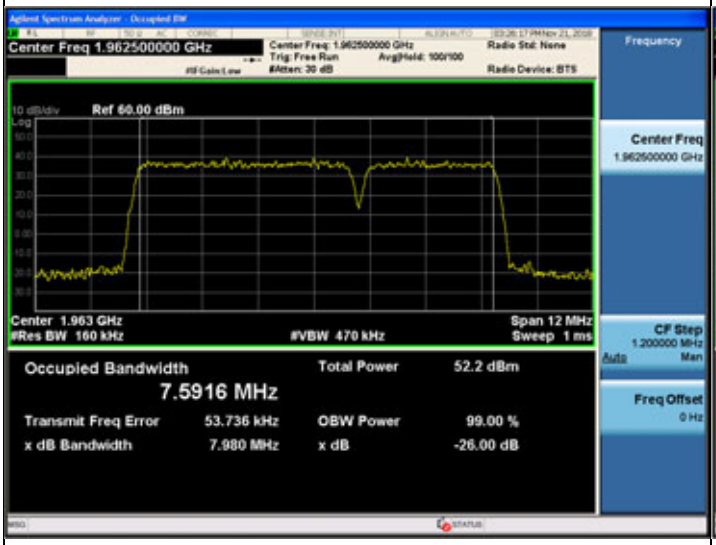
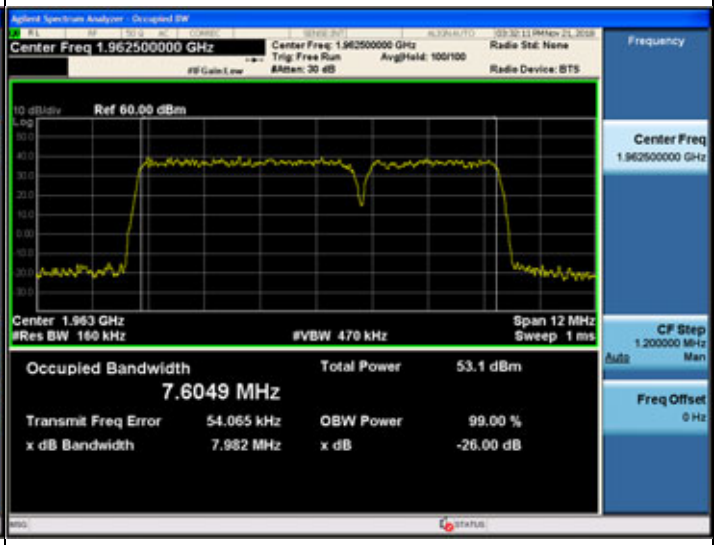
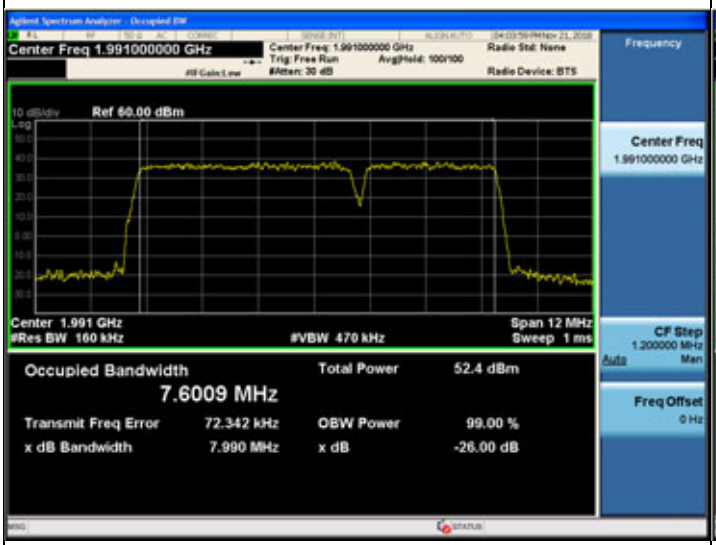
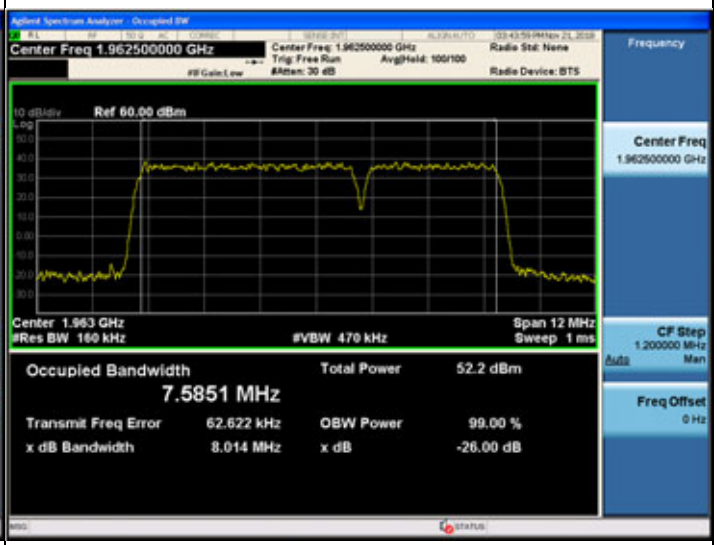
Port 1			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**Low**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**Middle**
			

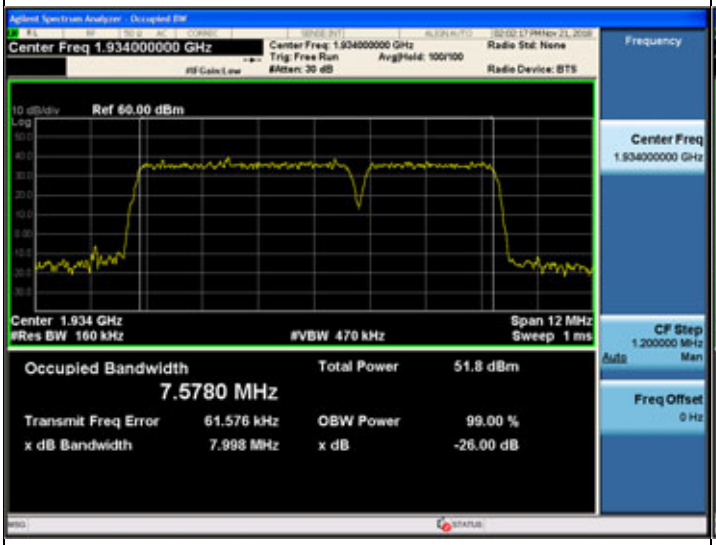
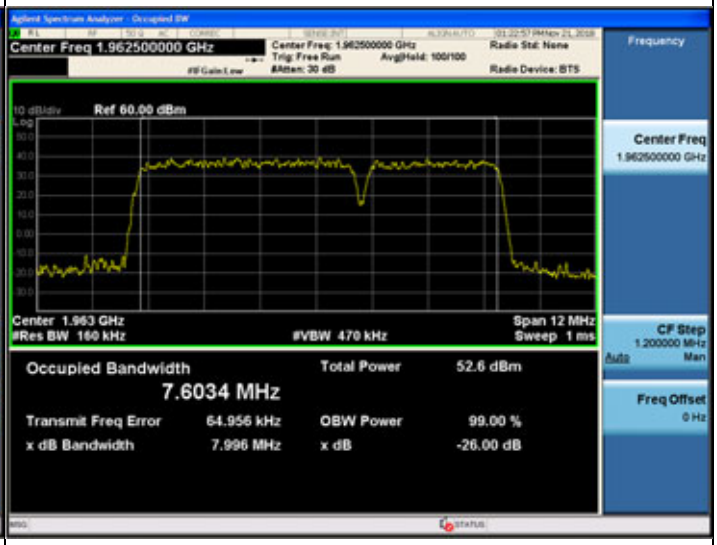
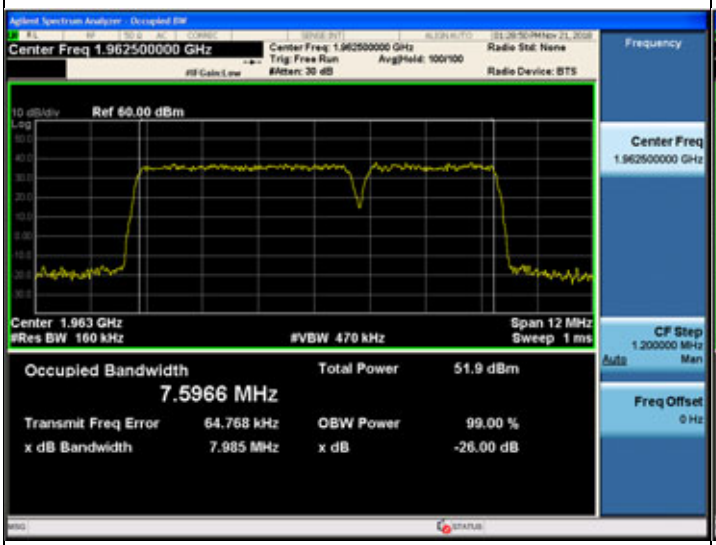
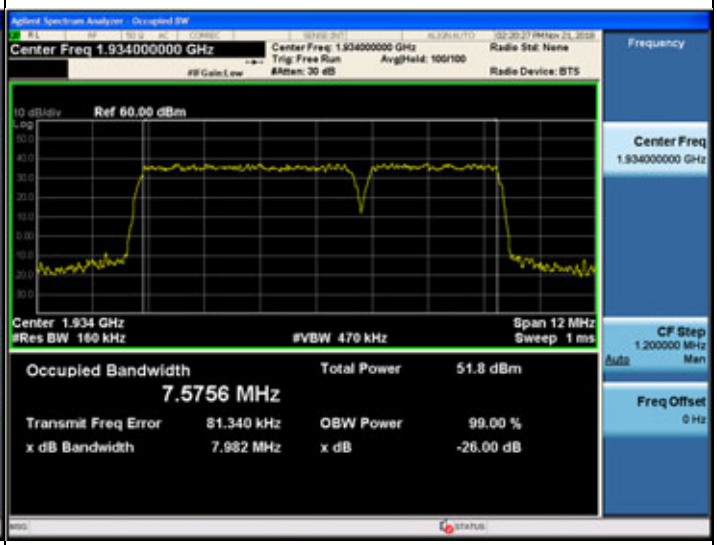
Port 2			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Low**	**Channel:**	**Middle**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**High**
			

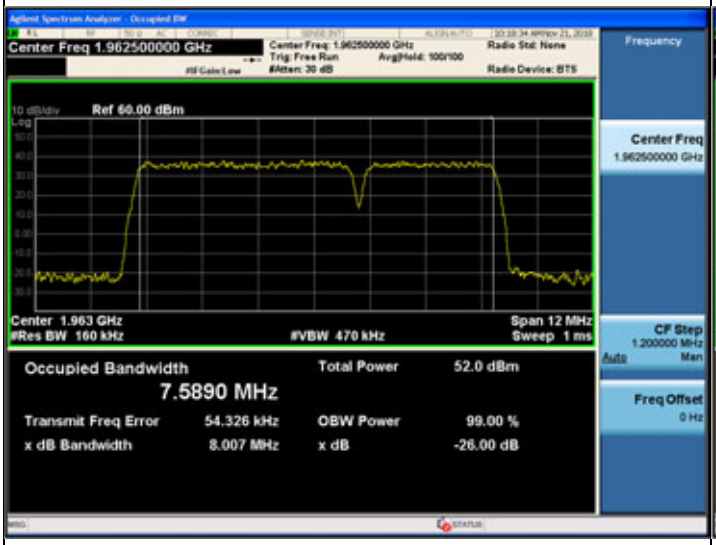
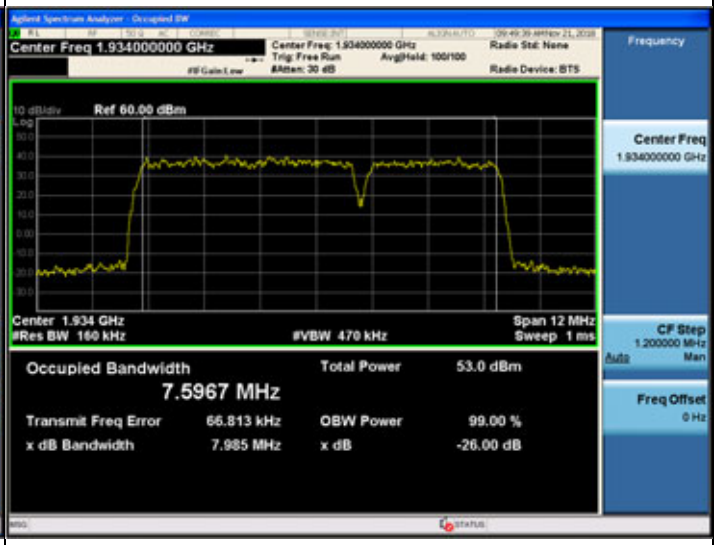
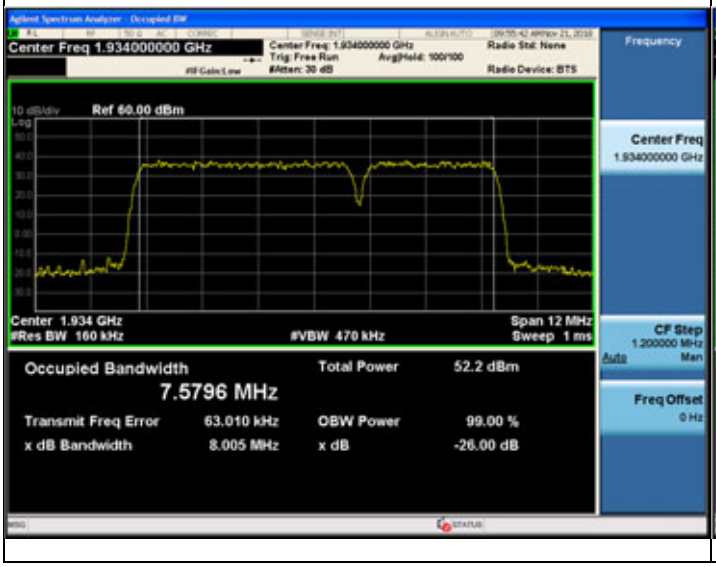
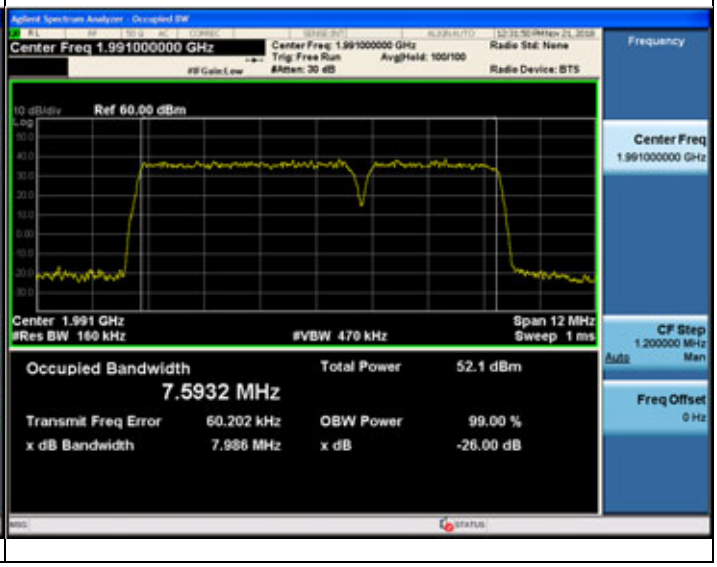
Port 3			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**Middle**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**High**
			

Plots of Occupied Bandwidth - 3 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

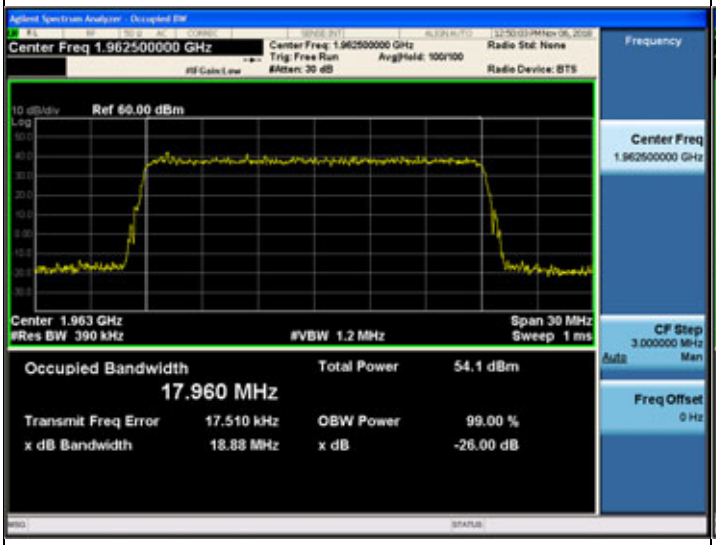
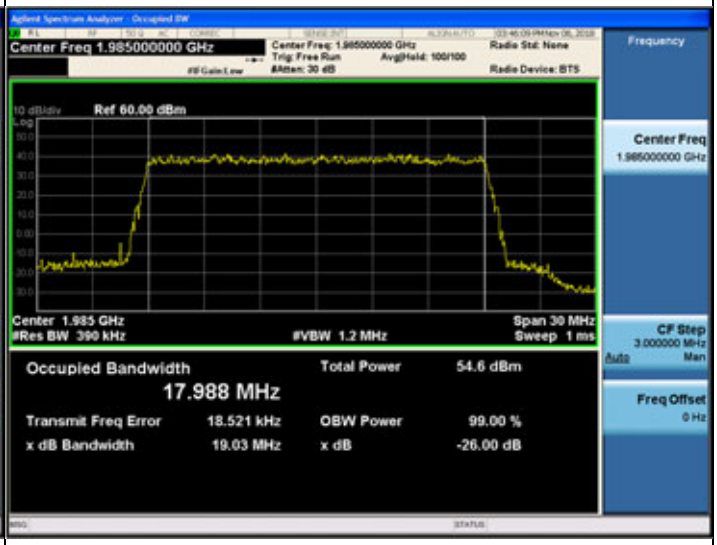
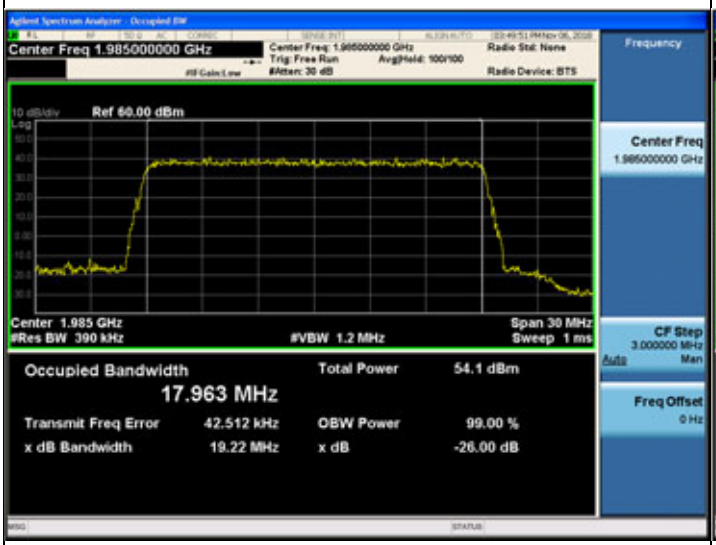
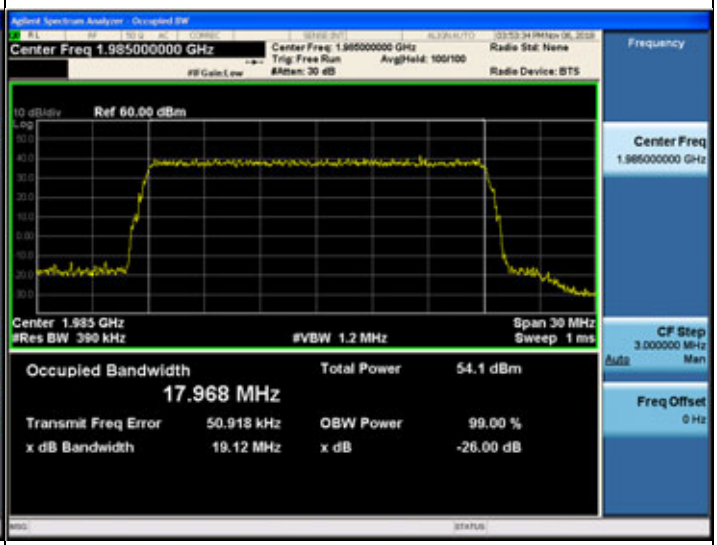
Port 0			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**Low**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**High**
			

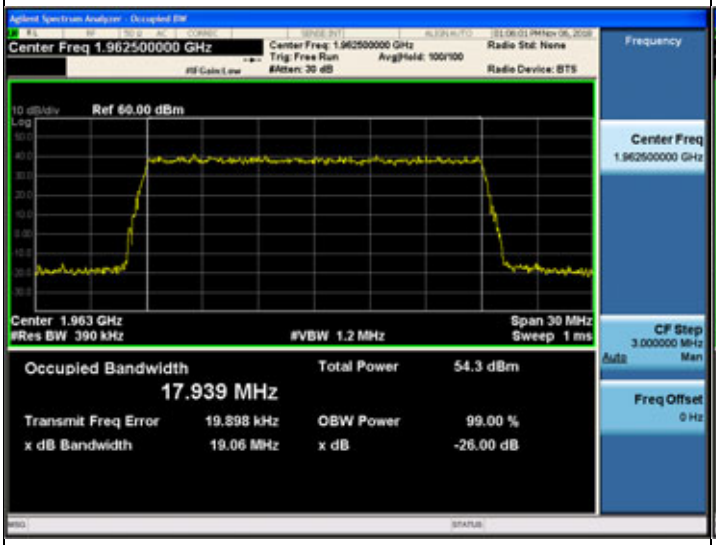
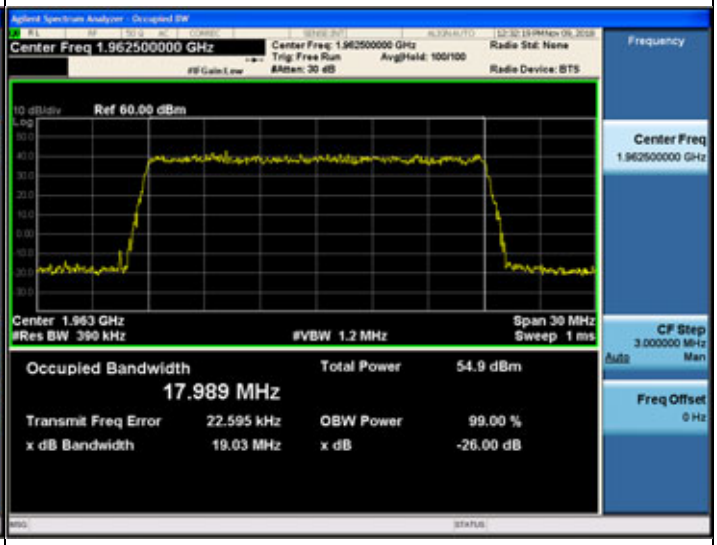
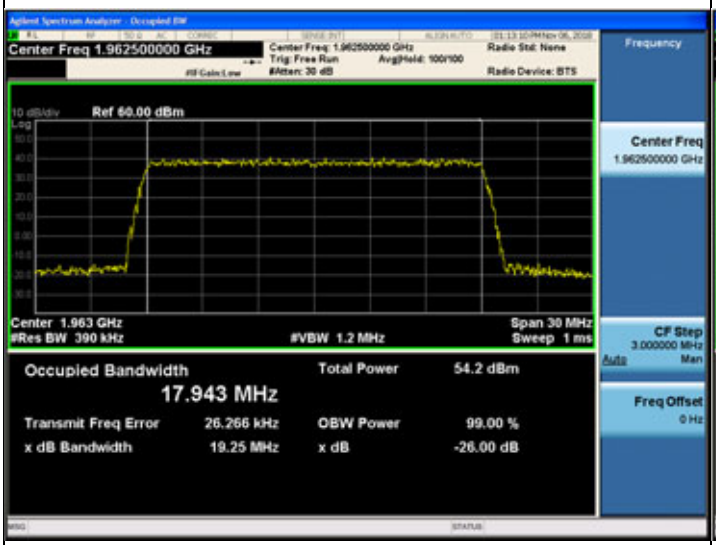
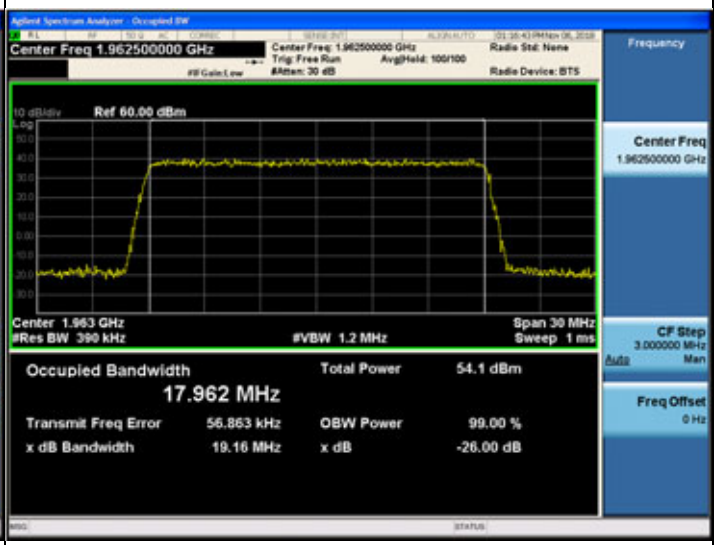
Port 1			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**Middle**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**Middle**
		

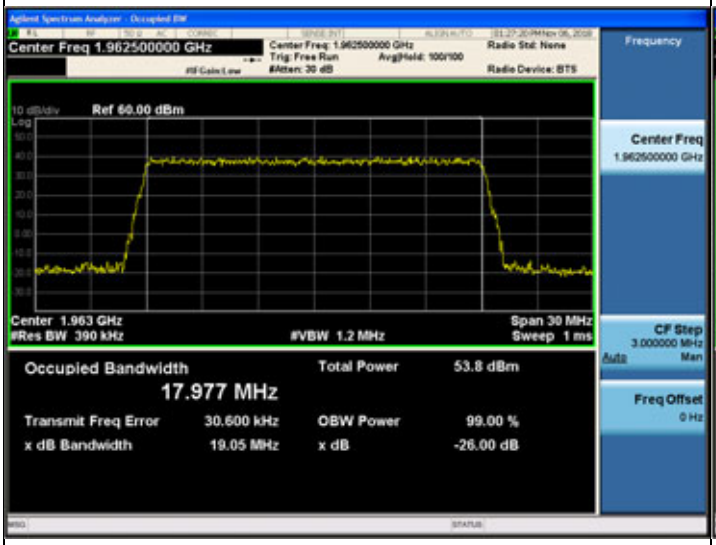
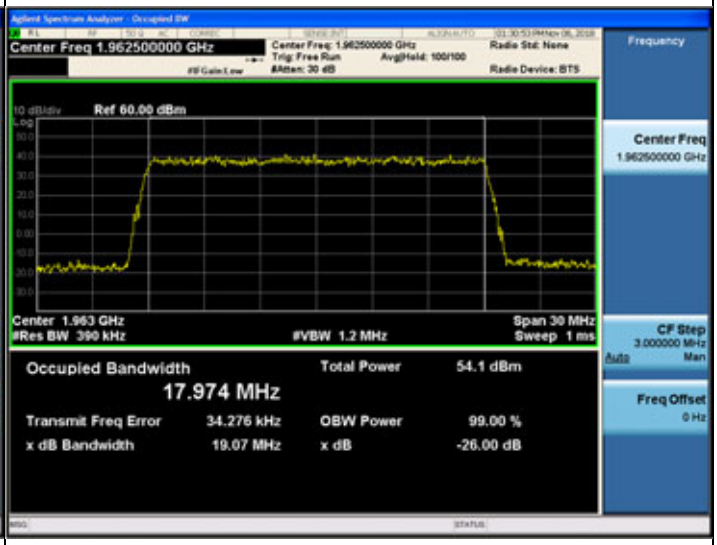
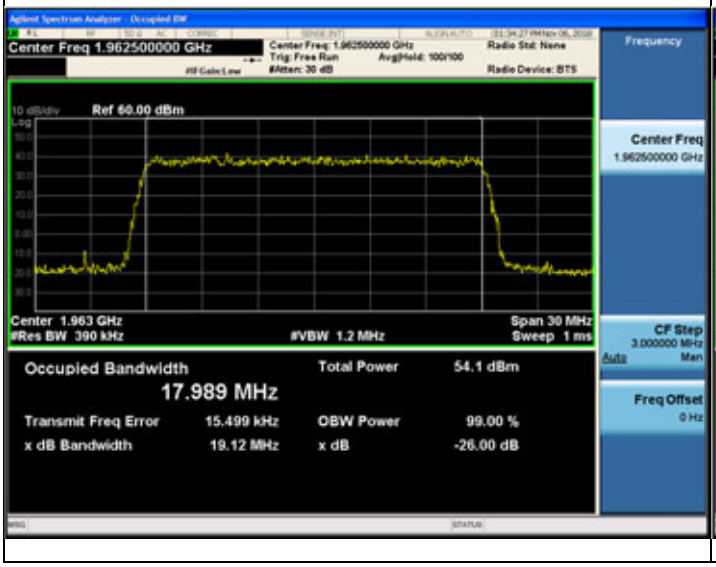
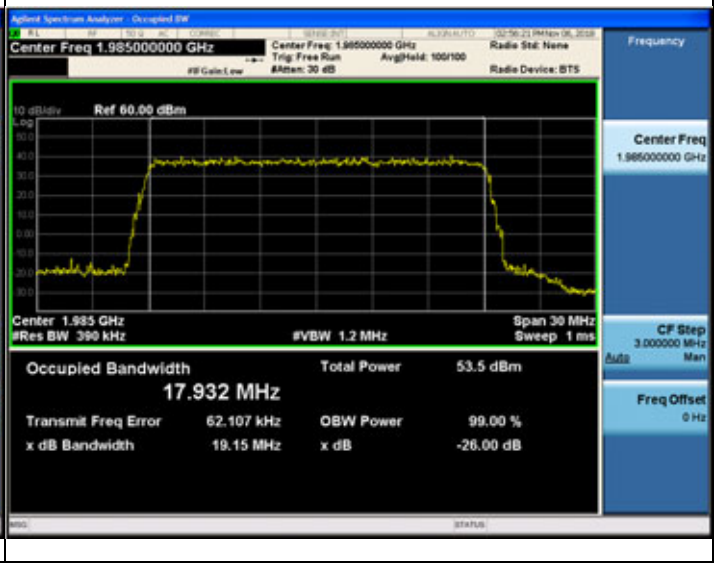
Port 2			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Low**	**Channel:**	**Middle**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Middle**	**Channel:**	**Low**
		

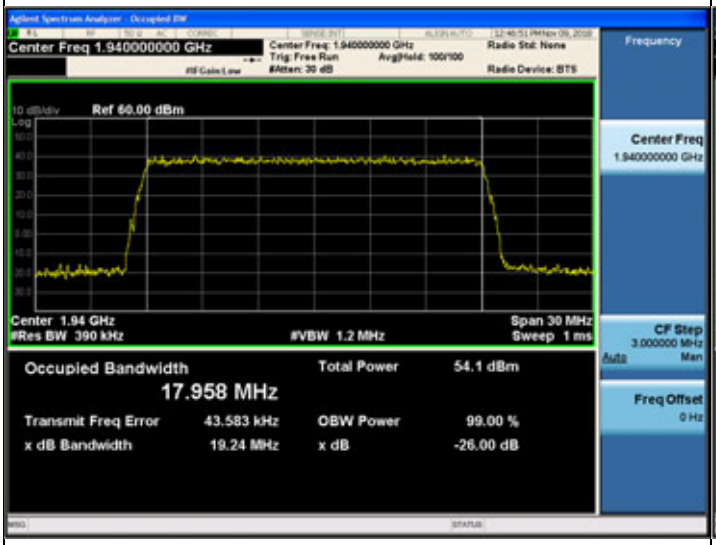
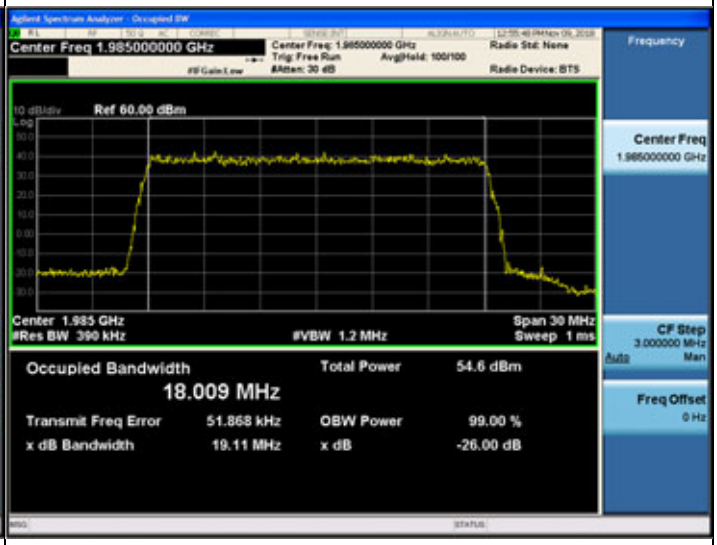
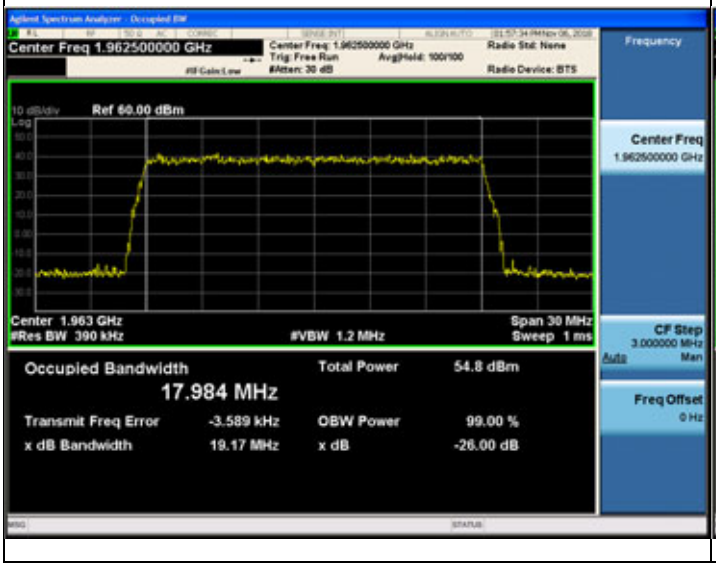
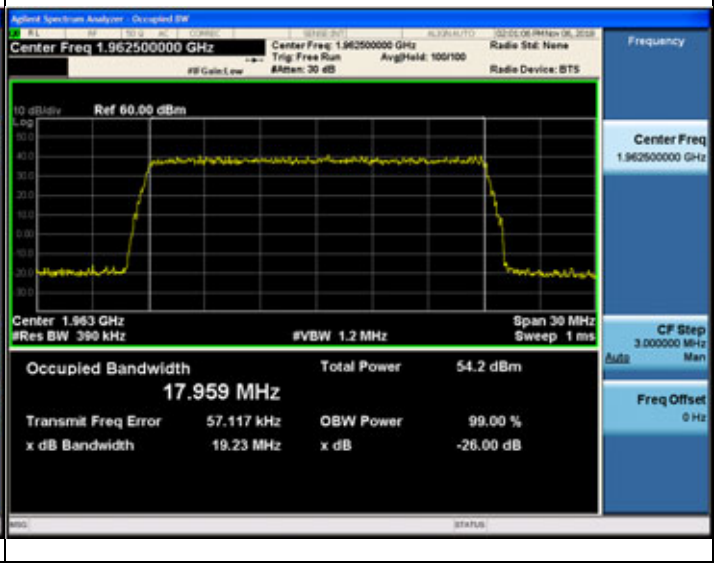
Port 3			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**Low**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**High**
			

Plots of Occupied Bandwidth - 20 MHz Bandwidth / 1 Carrier

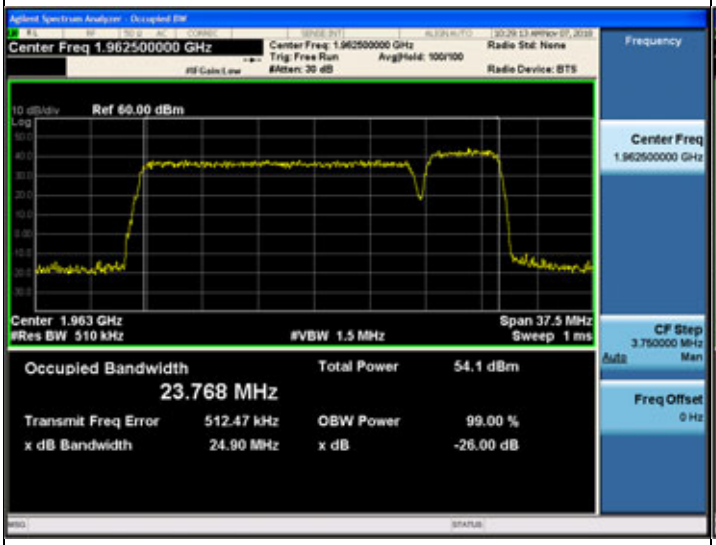
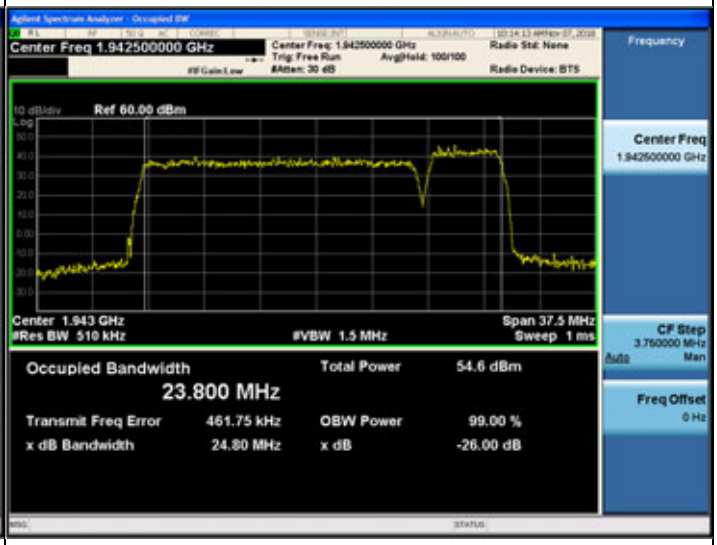
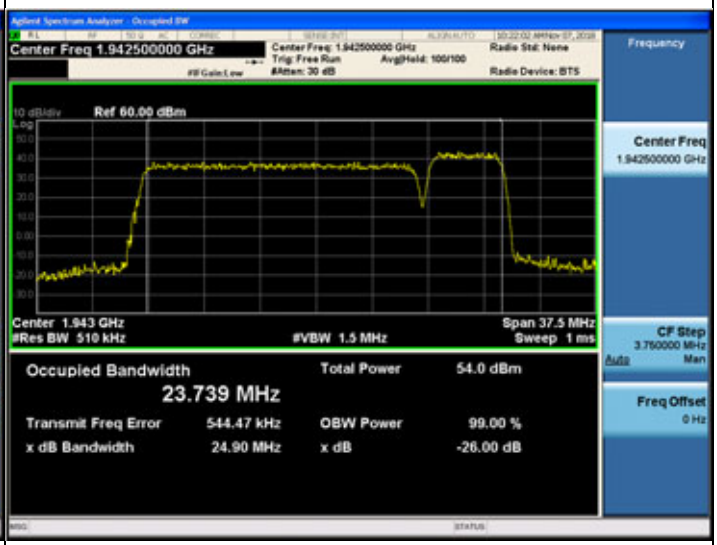
Port 0			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**High**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**High**
		

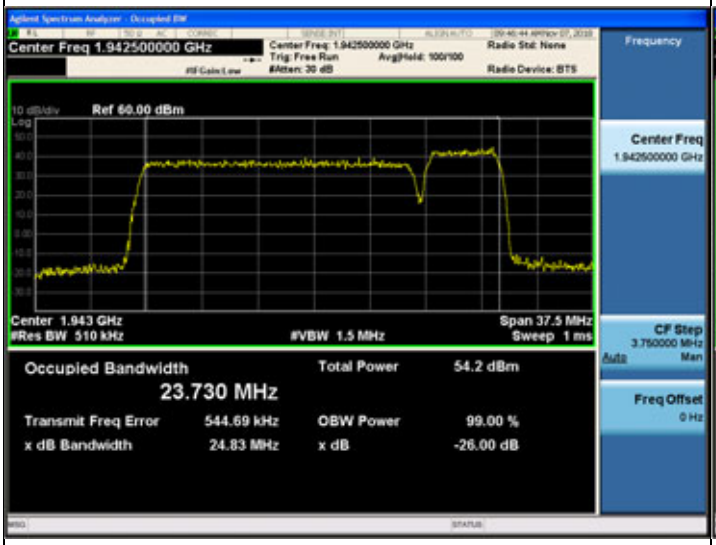
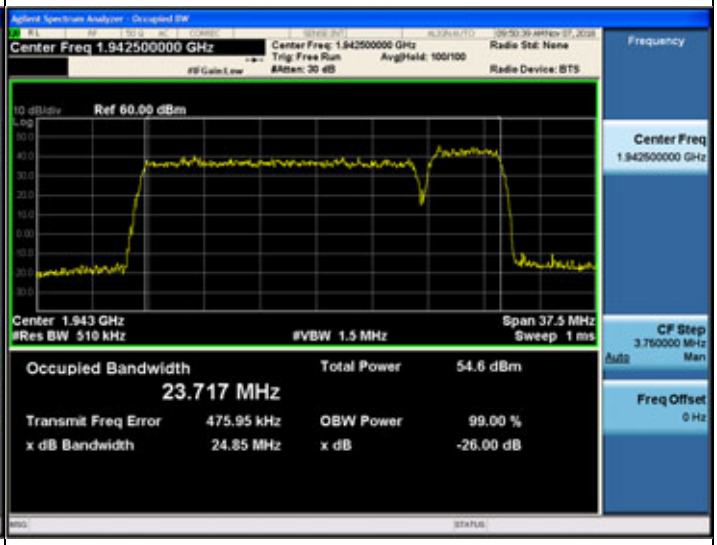
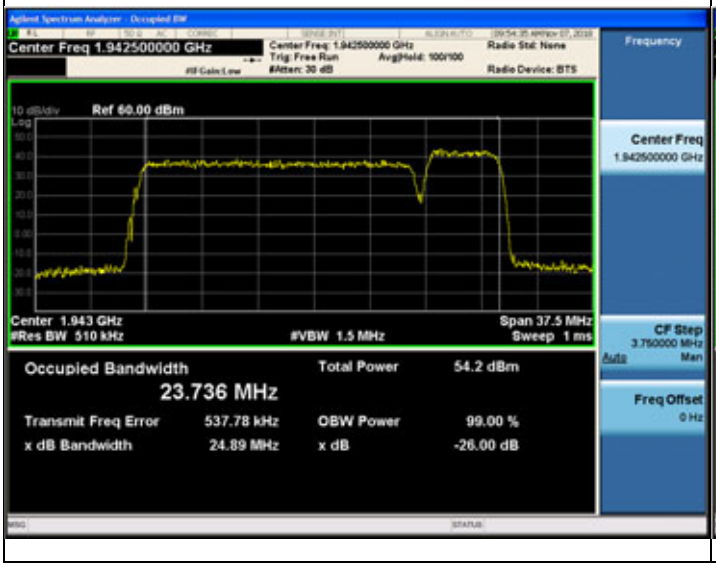
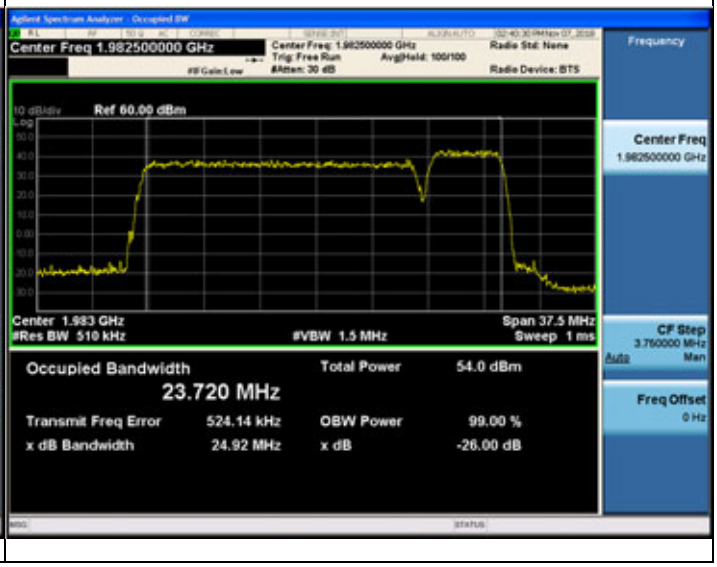
Port 1			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**Middle**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Middle**	**Channel:**	**Middle**
		

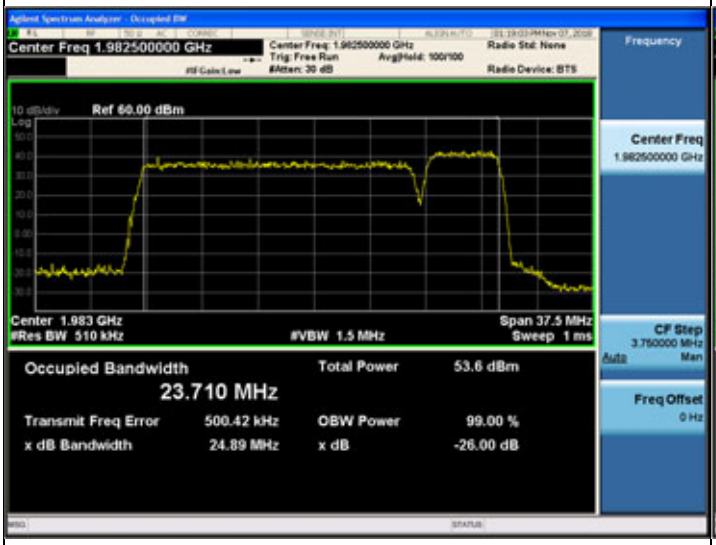
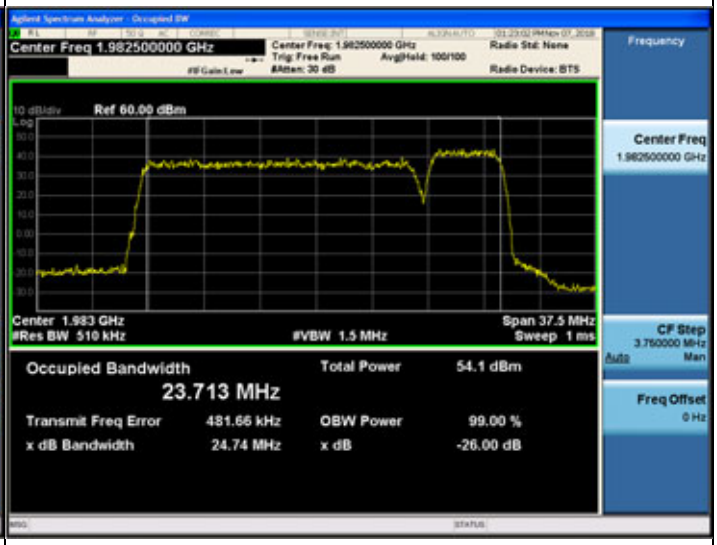
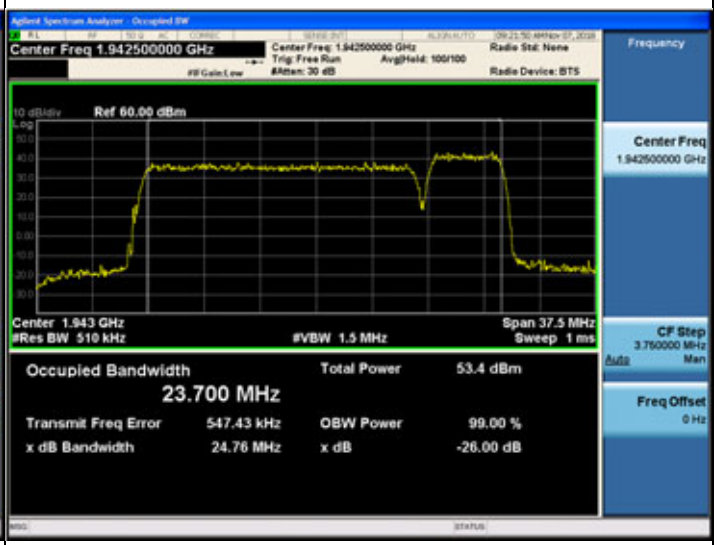
Port 2			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**Middle**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Middle**	**Channel:**	**High**
		

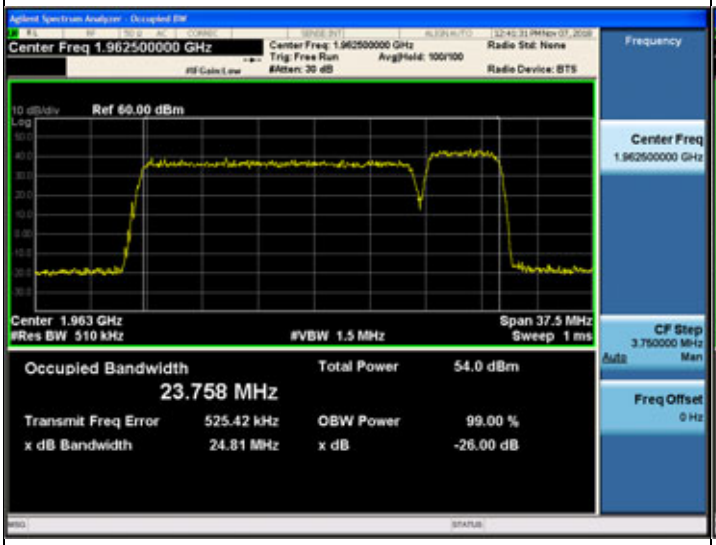
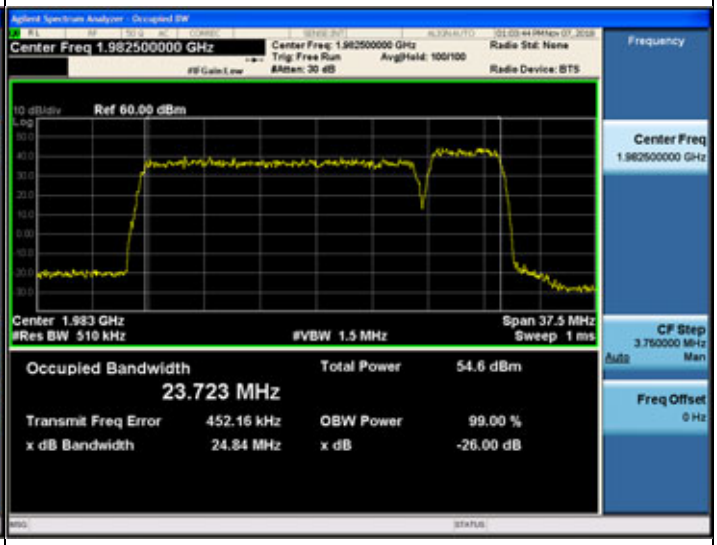
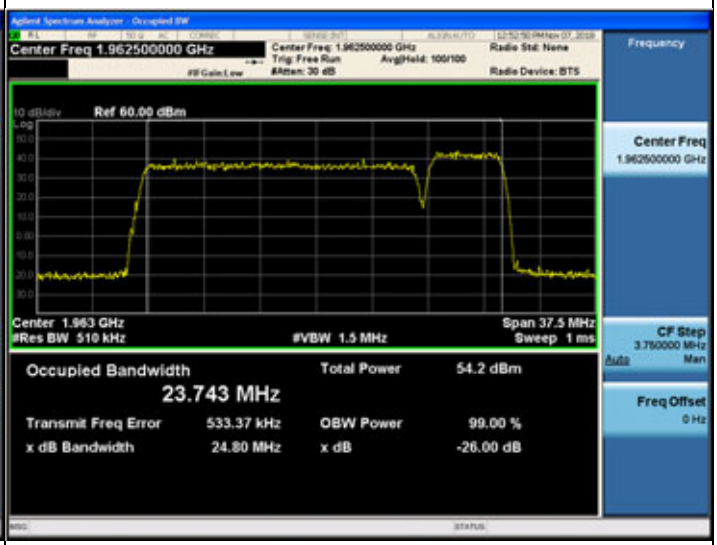
Port 3			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Low**	**Channel:**	**High**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Middle**	**Channel:**	**Middle**
			

Plots of Occupied Bandwidth - 20 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

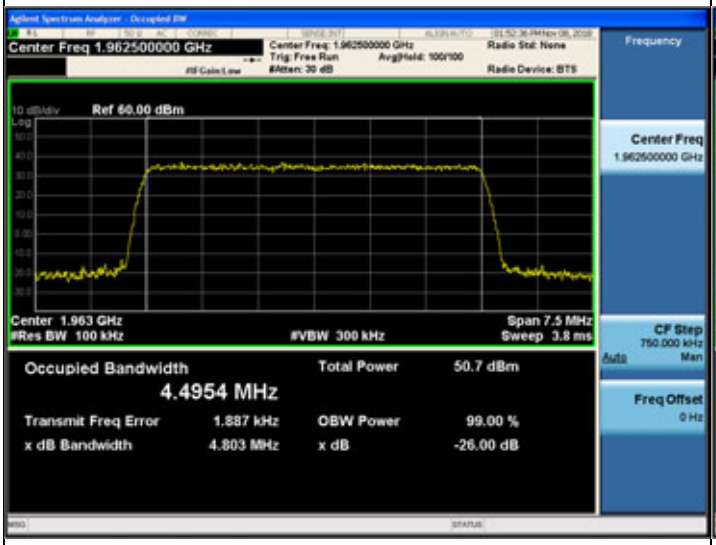
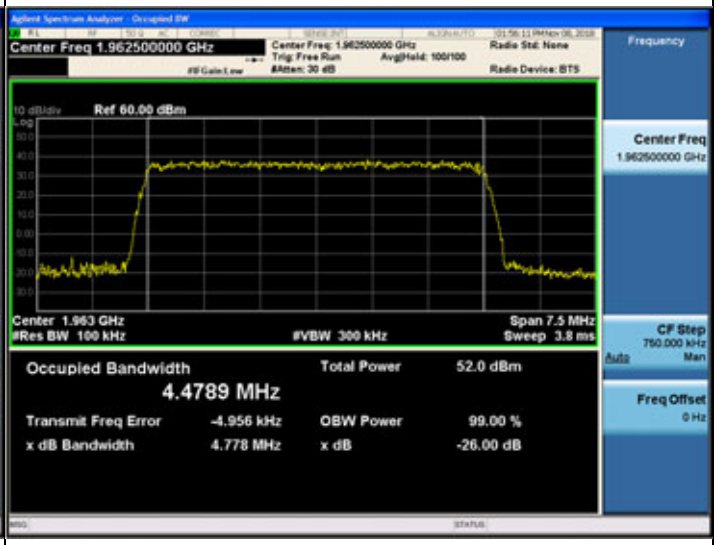
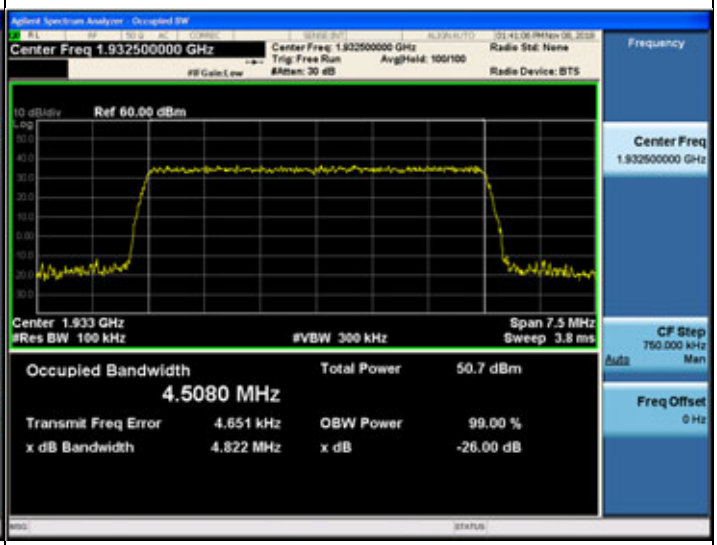
Port 0			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**Low**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**Low**
			

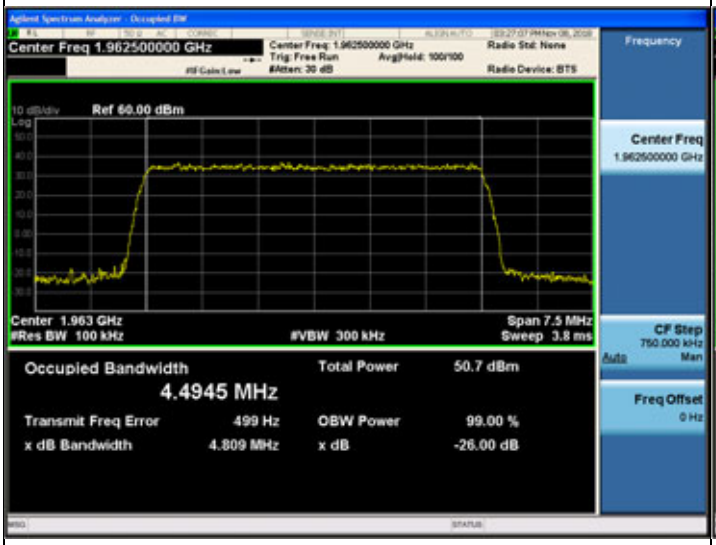
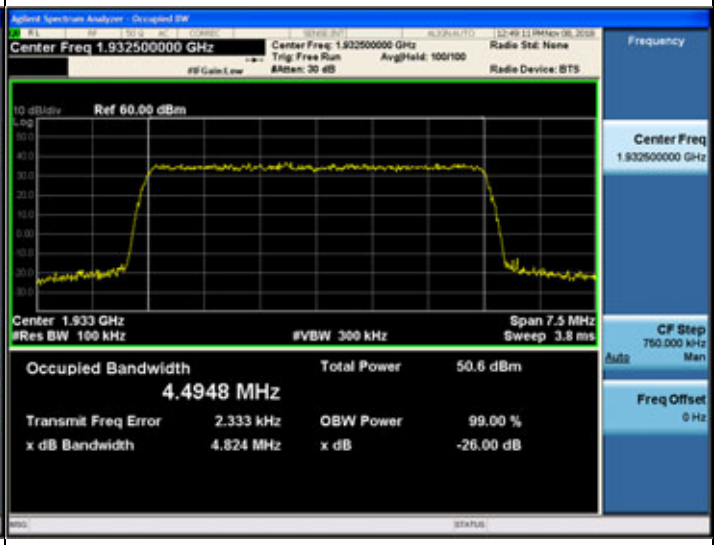
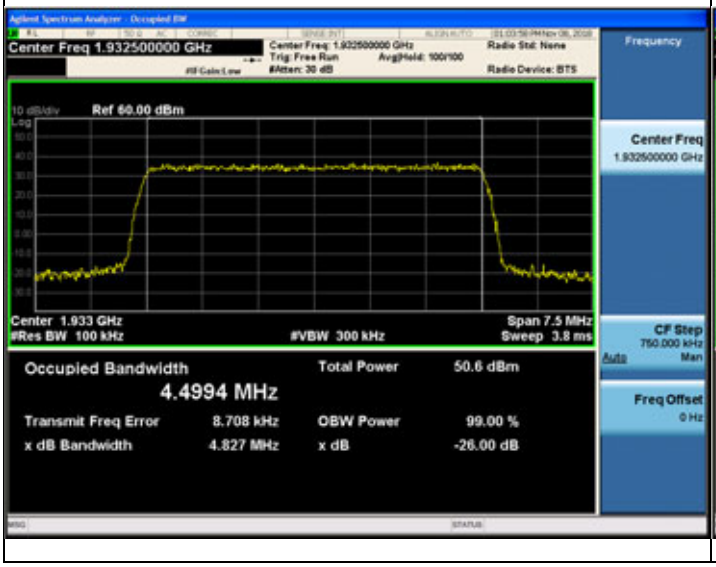
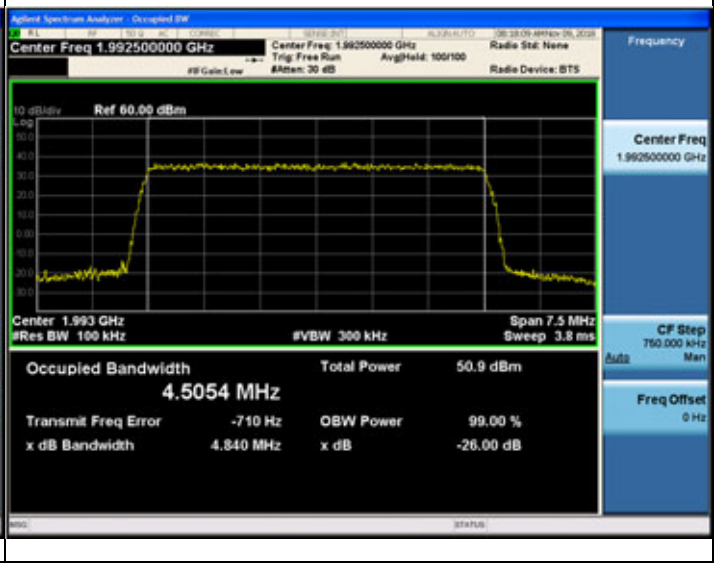
Port 1			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Low**	**Channel:**	**Low**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**High**
			

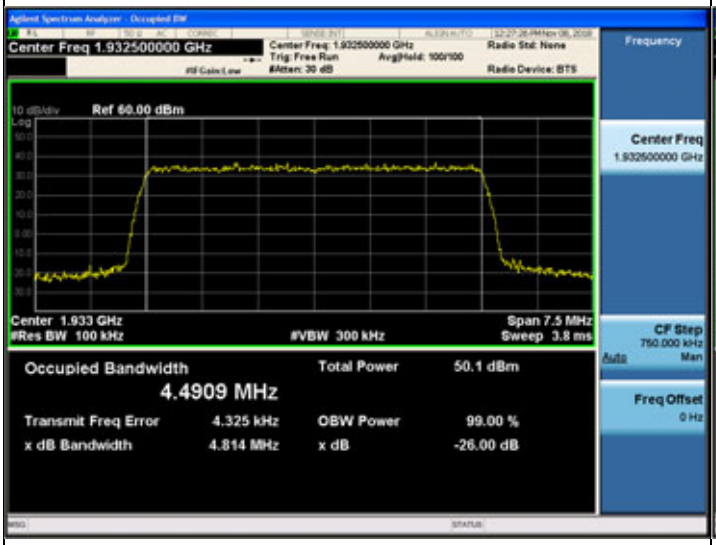
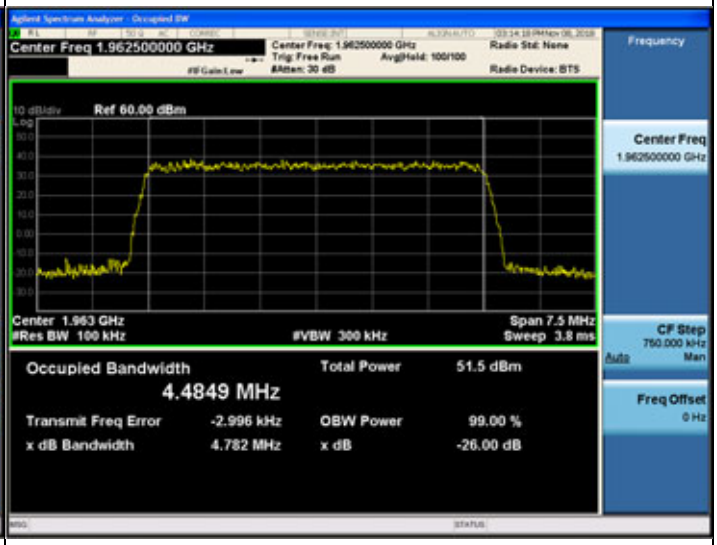
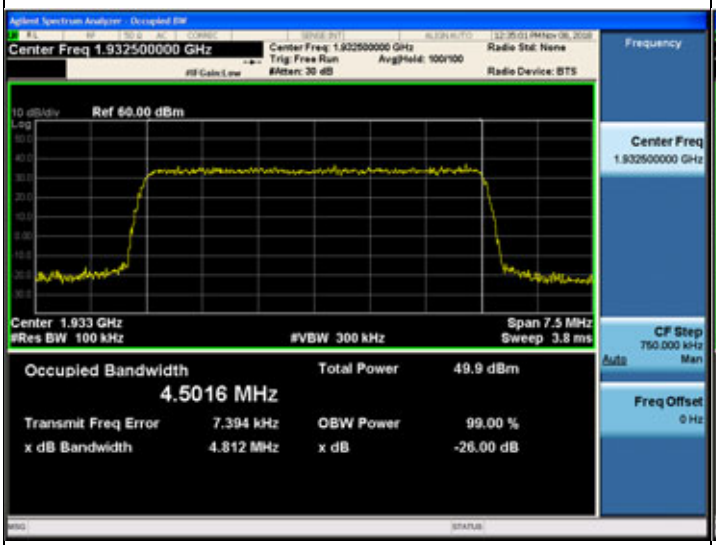
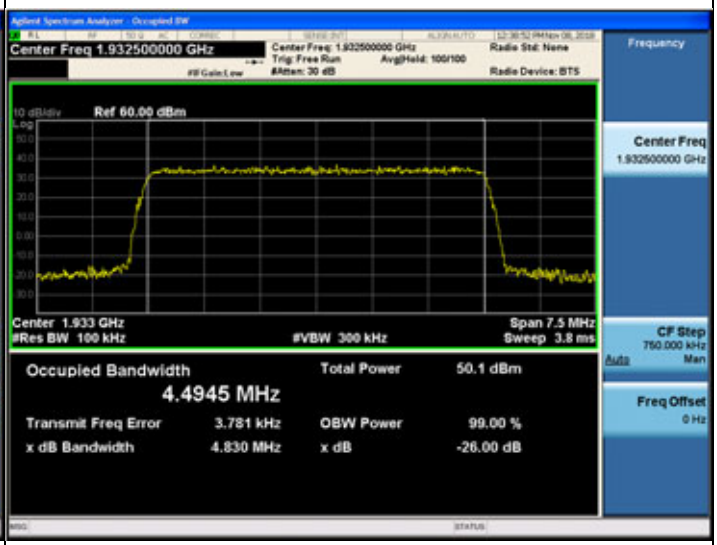
Port 2			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**High**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**Low**
		

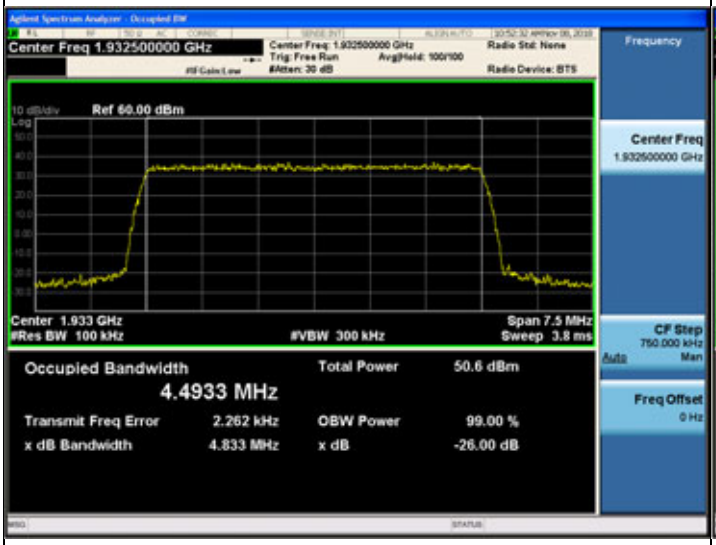
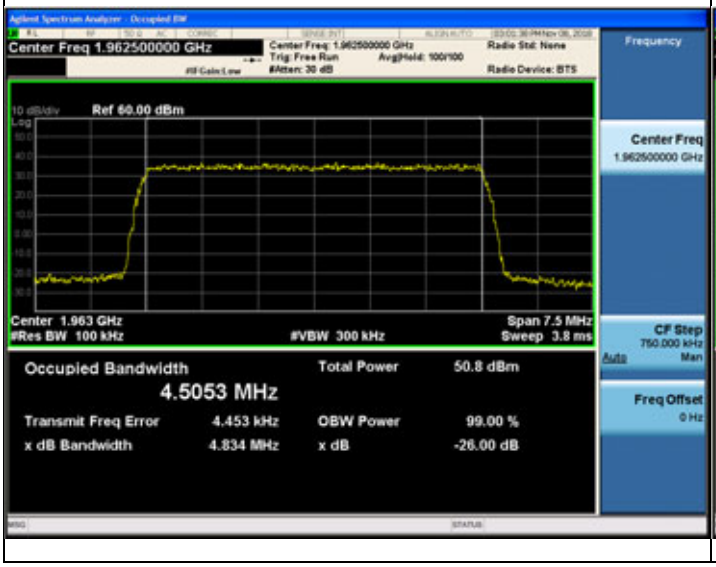
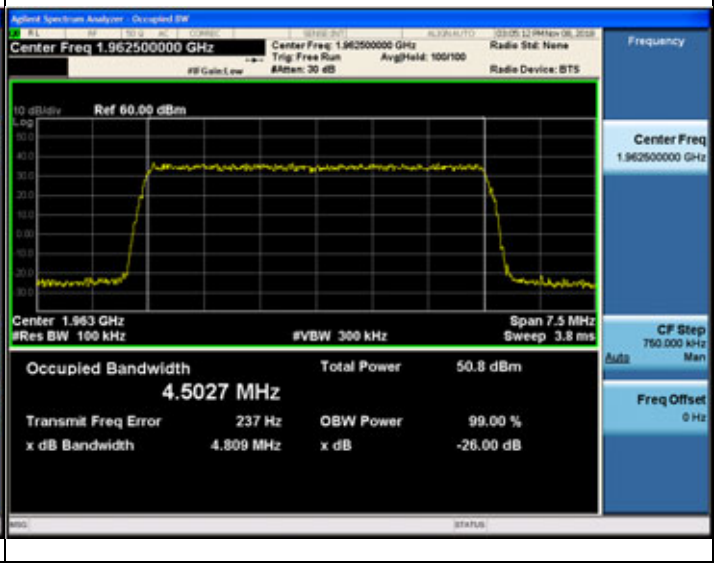
Port 3			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**High**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**Middle**
		

Plots of Occupied Bandwidth - 5 MHz Bandwidth / 1 Carrier

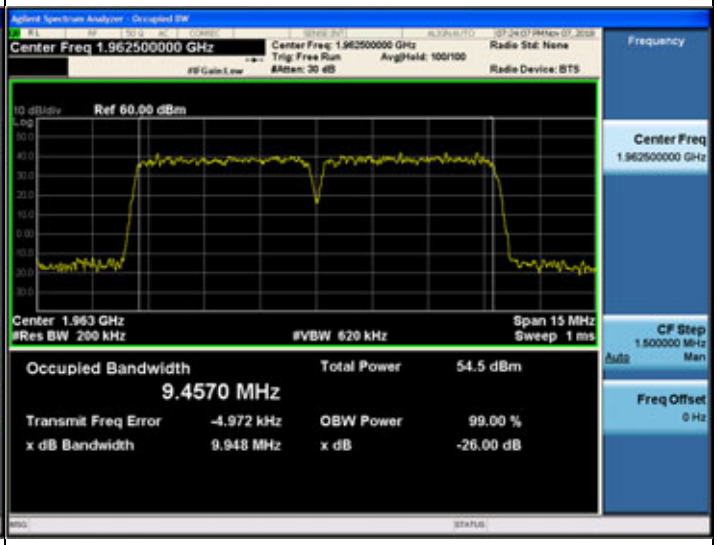
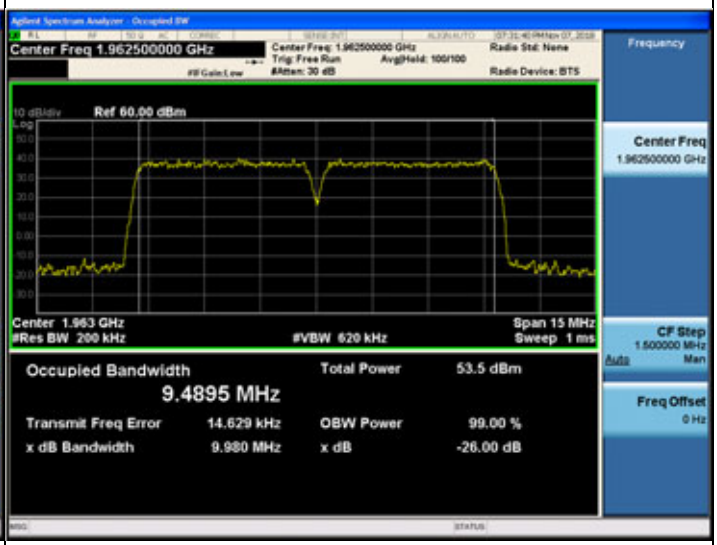
Port 0			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**Middle**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**Low**
			

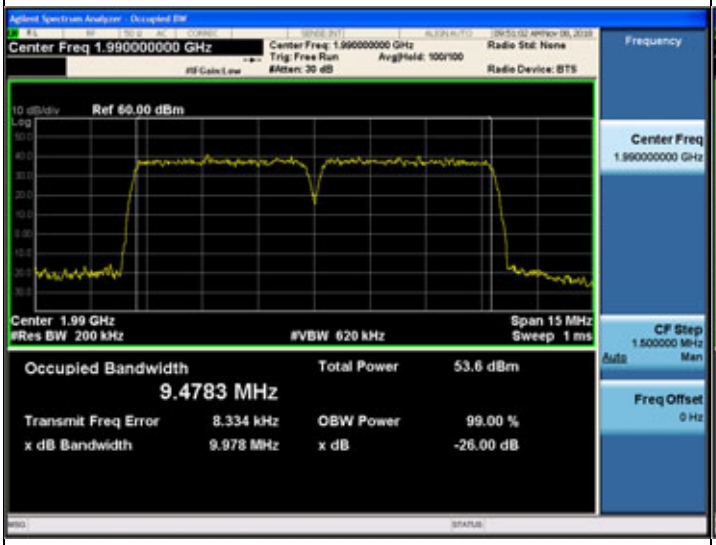
Port 1			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**Low**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**High**
			

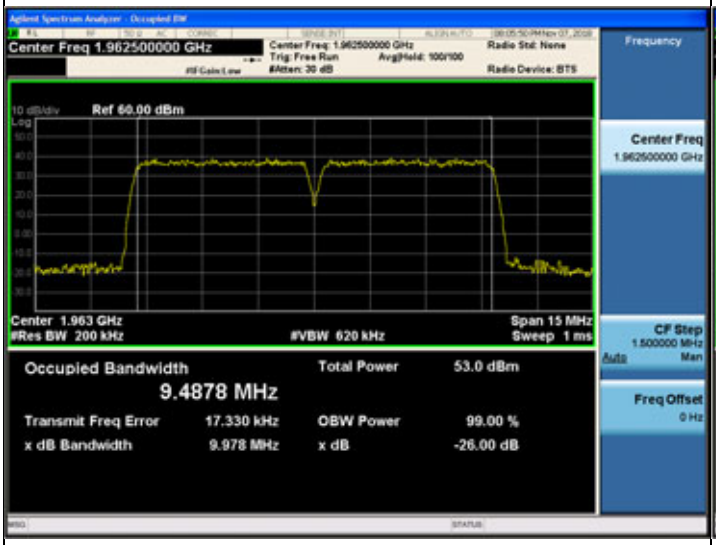
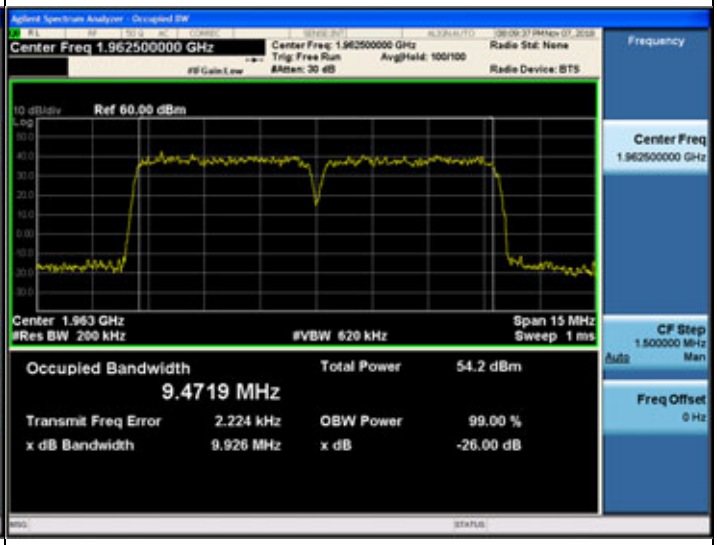
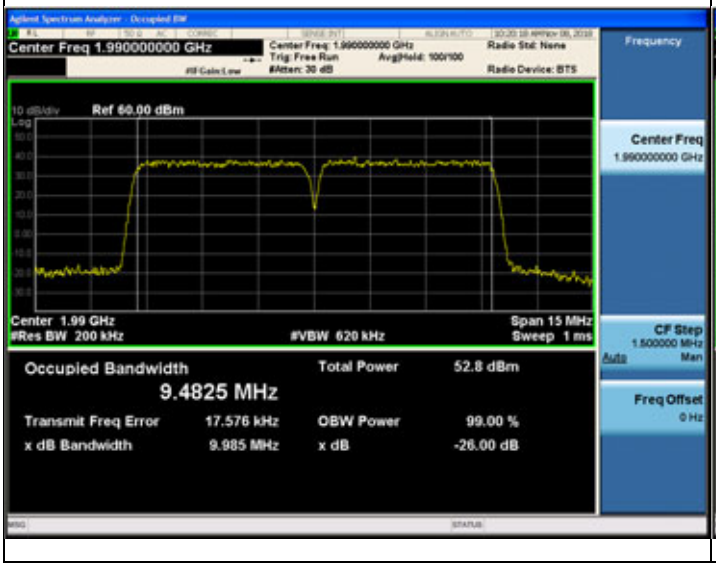
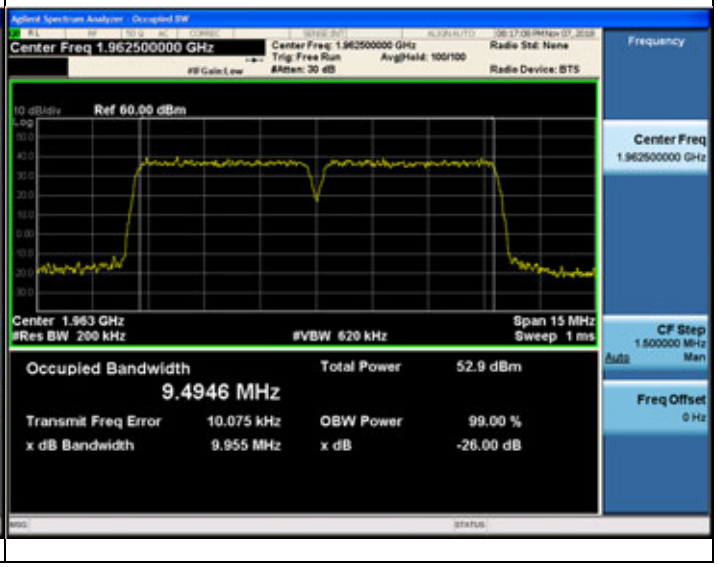
Port 2			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Low**	**Channel:**	**Middle**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**Low**
		

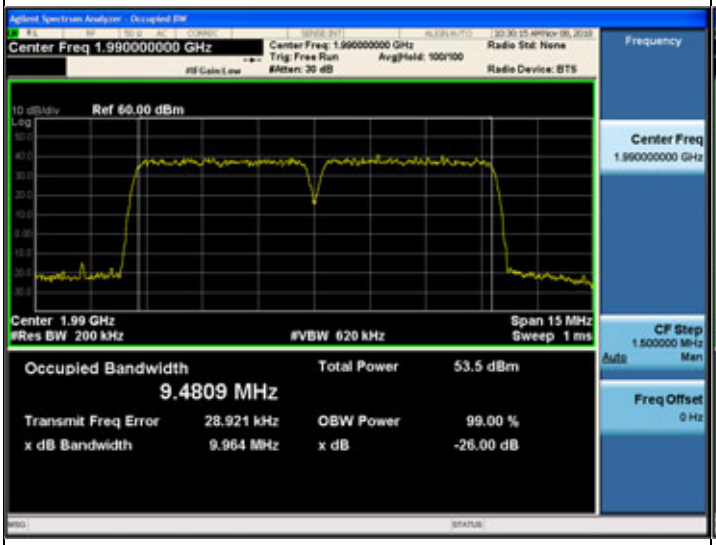
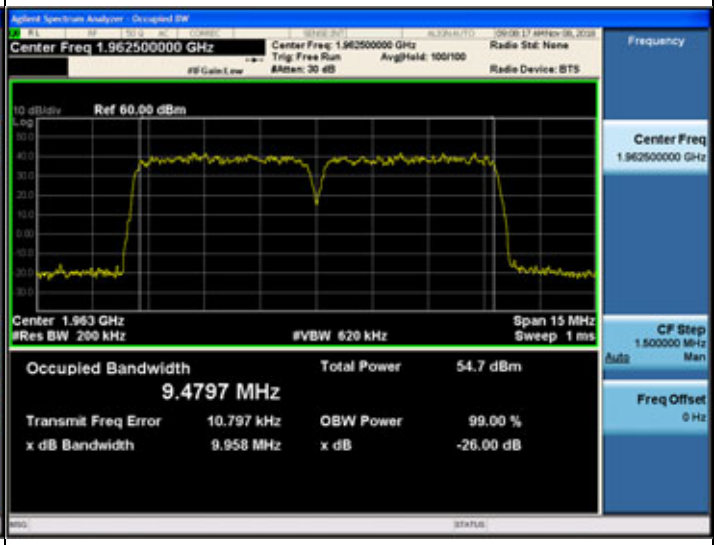
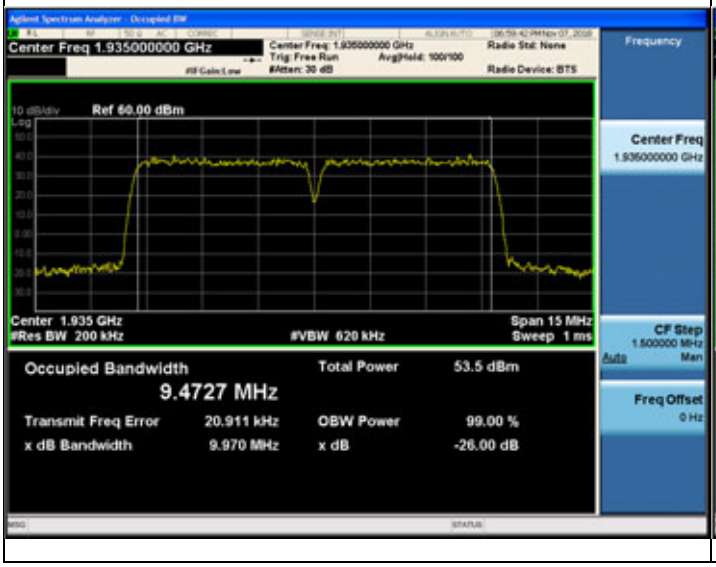
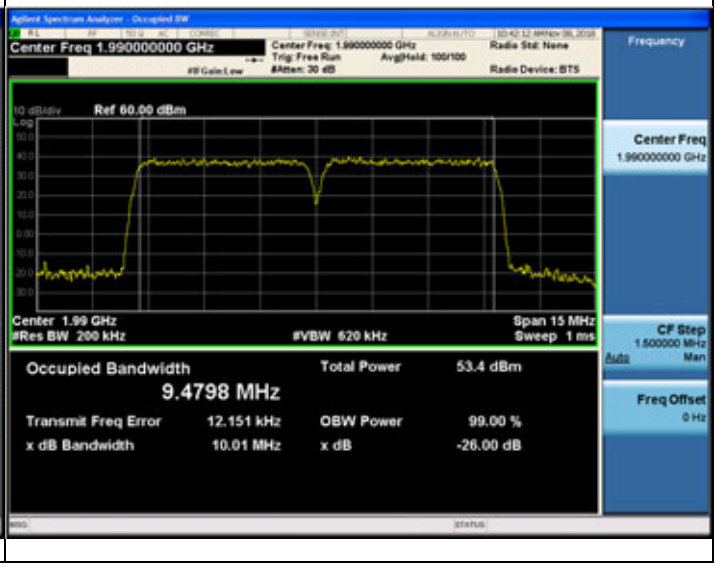
Port 3			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Low**	**Channel:**	**High**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Middle**	**Channel:**	**Middle**
			

Plots of Occupied Bandwidth - 5 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

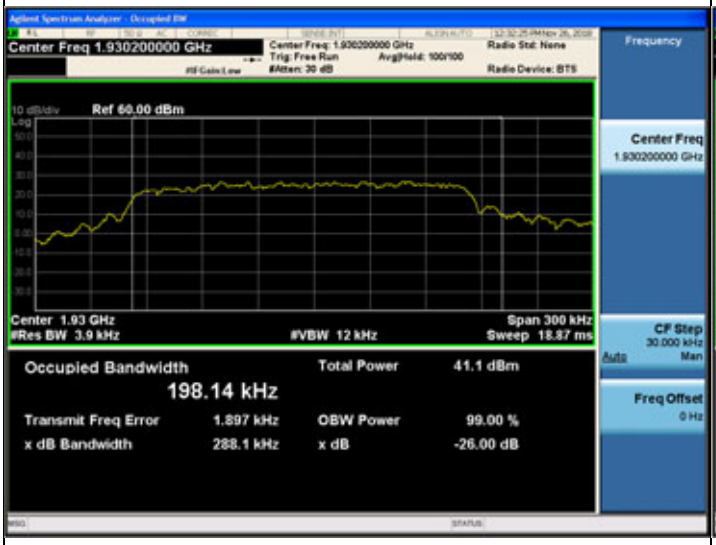
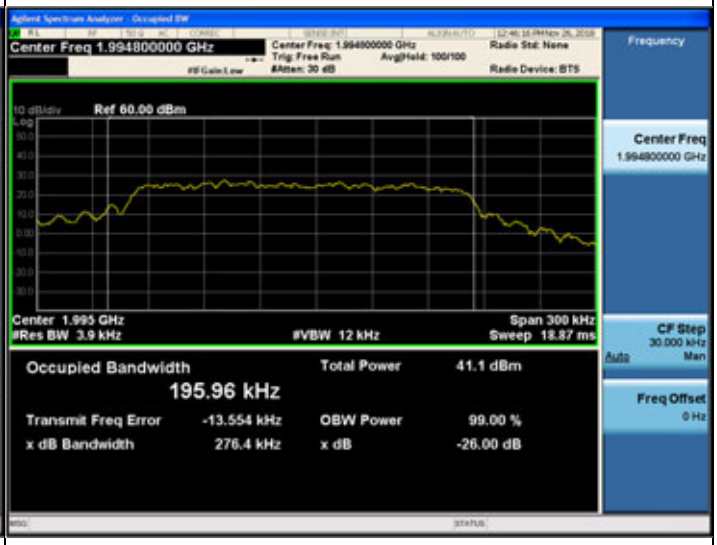
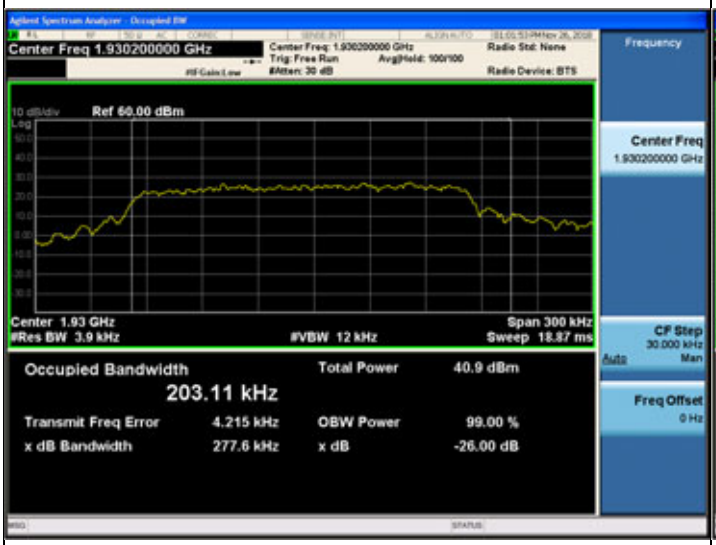
Port 0			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Low**	**Channel:**	**Middle**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Middle**	**Channel:**	**Middle**
			

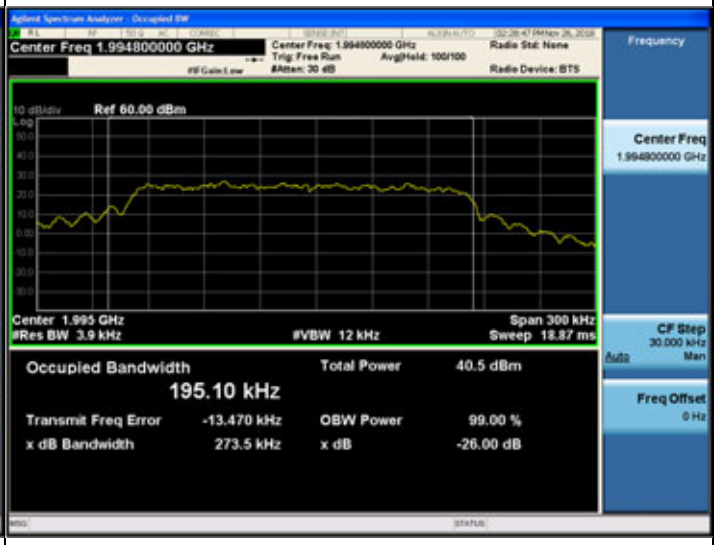
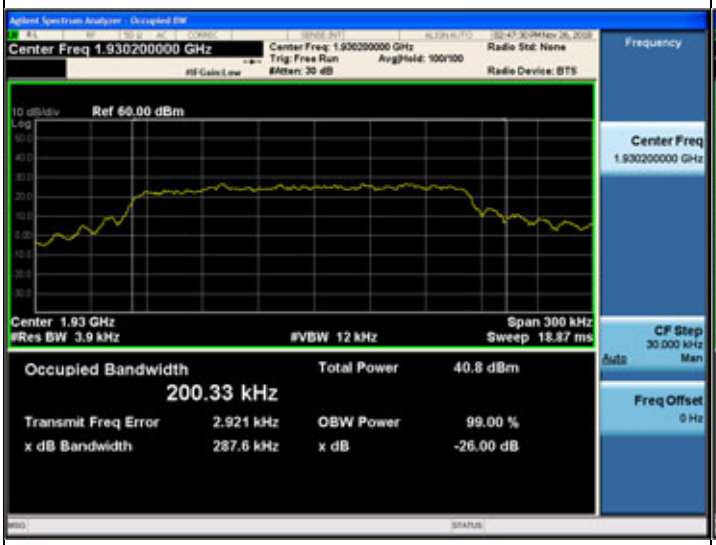
Port 1			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**High**
		
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**High**
		

Port 2			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**Middle**	**Channel:**	**Middle**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**High**	**Channel:**	**Middle**
			

Port 3			
Modulation:	**QPSK**	**Modulation:**	**16QAM**
Channel:	**High**	**Channel:**	**Middle**
			
Modulation:	**64QAM**	**Modulation:**	**256QAM**
Channel:	**Low**	**Channel:**	**High**
			

Plots of Occupied Bandwidth - NB-IoT_BPSK

Port 0			
Channel:	**Low**	**Channel:**	**High**
			
Port 1			
Channel:	**Low**	**Channel:**	**High**
			

Port 2			
Channel:	**Low**	**Channel:**	**High**
		
Port 3			
Channel:	**Low**	**Channel:**	**High**
		

5.3. UNWANTED CONDUCTED EMISSIONS

Test Requirements:

§ 2.1051 Measurements required: Spurious emissions at antenna terminals.

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in §2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

§ 24.238 Emission limitations for Broadband PCS equipment.

The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(c) Alternative out of band emission limit. Licensees in this service may establish an alternative out of band emission limit to be used at specified band edge(s) in specified geographical areas, in lieu of that set forth in this section, pursuant to a private contractual arrangement of all affected licensees and applicants. In this event, each party to such contract shall maintain a copy of the contract in their station files and disclose it to prospective assignees or transferees and, upon request, to the FCC.

(d) Interference caused by out of band emissions. If any emission from a transmitter operating in this service results in interference to users of another radio service, the FCC may require a greater attenuation of that emission than

Test Procedures:

The measurement is performed in accordance with Section 5.7.3 and 5.7.4 of ANSI C63.26.

5.7.3 Out-of-band unwanted emissions measurements

a) Set the spectrum analyzer center frequency to the block, band, or channel edge frequency.

b) Set the span wide enough to capture the fundamental emission closest to the authorized block or band edge, and to include all modulation products that spill into the immediately adjacent frequency band. In some cases, it may be possible to set the center frequency and span so as to encompass the fundamental emission and the unwanted out-of-band (band-edge) emissions on either side of the authorized block, band, or channel. This can be accomplished with a single (slow) sweep, if adequate overload protection and sufficient dynamic range can be maintained.

c) Set the number of points in sweep ≥ 2 × span / RBW.

d) Sweep time should be auto for peak detection. For rms detection the sweep time should be set as follows:

1) If the device can be configured to transmit continuously (duty cycle ≥ 98%), set the (sweep time) > (number of points in sweep) × (symbol period) (e.g., by a factor of 10 × symbol period × number of points). Increasing the sweep time (i.e., slowing the sweep speed) will allow for averaging over multiple symbols

2) If the device cannot be configured to transmit continuously (duty cycle < 98%) and a freerunning sweep must be used, set the sweep time so that the averaging is performed over multiple on/off cycles by setting the sweep time > (number of points in sweep) × (transmitter period) (i.e., the transmit on-time + the off-time). The spectrum analyzer readings shall subsequently be corrected by [10 log (1/duty cycle)]. This assumes that the transmission period and duty cycle is relatively constant (duty cycle variation ≤ ±2%).

3) If the device cannot be configured to transmit continuously (duty cycle < 98%) and a freerunning sweep must be used, set the sweep time so that the averaging is performed over multiple on/off cycles by setting the sweep time > (number of points in sweep) × (transmitter period) (i.e., the transmit on-time + the off-time). The spectrum analyzer readings shall subsequently be corrected by [10 log (1/duty cycle)]. This assumes that the transmission period and duty cycle is relatively constant (duty cycle variation ≤ ±2%).

4) If the device cannot be configured to transmit continuously and a free-running sweep must be used, and if the transmissions exhibit a non-constant duty cycle (duty cycle variations > ±2%), set the sweep time so that the averaging is performed over the on-period by setting the sweep time > (symbol period) × (number of points), while also maintaining the sweep time < (transmitter on-time). The trace mode shall be set to max hold, since not every display point will be averaged only over just the on-time. Thus, multiple sweeps (e.g., 100) in maximum hold are necessary to ensure that the maximum power is measured.

e) The test report shall include the plots of the measuring instrument display and the measured data.

f) See Annex I for example emission mask plots.

5.7.4 Spurious unwanted emission measurements

a) Set the spectrum analyzer start frequency to the lowest frequency generated by the EUT, without going below 9 kHz, and the stop frequency to the lower frequency covered by the measurements previously performed in 5.7.3. As an alternative, the stop frequency can be set to the value specified in 5.1.1, depending on the EUT operating range, if the resulting plot can clearly demonstrate compliance for all frequencies not addressed by the out-of-band emissions measurements performed as per 5.7.3.

b) When using an average power (rms) detector, ensure that the number of points in the sweep ≥ 2 × (span / RBW). This may require that the measurement range defined by the start and stop frequencies be

subdivided, depending on the spectrum analyzer capabilities. This requirement does not apply to peak-detected power measurements. When average power is specified by the applicable regulation, a peak-detector can be utilized for preliminary measurements to accommodate wider frequency spans. Any emissions found in the preliminary measurement to exceed the applicable limit(s) shall be further examined using a power averaging (rms) detector with the minimum number of measurement points as defined above.
c) The sweep time should be set to auto-couple for performing peak-detector measurements. For measurements that use a power averaging (rms) detector, the sweep time shall be set as described for out-of-band emissions measurements in item d) of 5.7.3.
d) Identify and measure the Highest spurious emission levels in each frequency range. It is not necessary to re-measure the out-of-band emissions as a part of this test. Record the frequencies and amplitudes corresponding to the measured emissions and capture the data plots.
e) Repeat step b) through step d) for the upper spurious emission frequency range if not already captured by a wide span measurement performed as per the alternative provided in step a). The upper frequency for this measurement is defined in 5.1.1 as a function of the EUT operating range.
f) Compare the results with the corresponding limit in the applicable regulation.
g) The test report shall include the data plots of the measuring instrument display and the measured data.

Note:

1) In 9 kHz to 30 MHz band, RBW narrower than reference bandwidth is used. So following correction factor is applied.

   - 10 log [(reference bandwidth)/(resolution bandwidth)]
   - 9 kHz to 150 kHz applied 1 kHz RBW, 10 log (1 kHz / 1MHz) = 30 dB
   - 150 kHz to 30 MHz applied 100 kHz RBW, 10 log (10 kHz / 1 MHz) = 20 dB

2) Due to 4x4 MIMO operations, a correction has been added to the limit according to KDB 662911 D01 v02r01.

   - MIMO correction: 10 log(N_{ANT}) = 10 log(4) = 6.02 dB

Test Results:

Band edge of 3 MHz Bandwidth / 1 Carrier

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
Port 0	QPSK	Left	1 930.00	-29.139
		Right	1 995.00	-25.702
	16QAM	Left	1 930.00	-30.494
		Right	1 995.00	-26.959
	64QAM	Left	1 930.00	-29.085
		Right	1 995.00	-26.048
	256QAM	Left	1 930.00	-29.191
		Right	1 995.00	-26.353
Port 1	QPSK	Left	1 930.00	-30.106
		Right	1 995.00	-28.217
	16QAM	Left	1 930.00	-29.422
		Right	1 995.00	-26.305
	64QAM	Left	1 930.00	-29.444
		Right	1 995.00	-27.494
	256QAM	Left	1 930.00	-28.923
		Right	1 995.00	-27.916
Port 2	QPSK	Left	1 930.00	-28.597
		Right	1 995.00	-27.652
	16QAM	Left	1 930.00	-29.517
		Right	1 995.00	-27.327
	64QAM	Left	1 930.00	-28.732
		Right	1 995.00	-27.537
	256QAM	Left	1 930.00	-28.292
		Right	1 995.00	-26.382
Port 3	QPSK	Left	1 930.00	-29.008
		Right	1 995.00	-27.730

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
	16QAM	Left	1 930.00	-29.556
		Right	1 995.00	-28.264
	64QAM	Left	1 930.00	-29.286
		Right	1 995.00	-28.967
	256QAM	Left	1 930.00	-29.173
		Right	1 995.00	-28.117

Band edge of 3 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
Port 0	QPSK	Left	1 930.00	-23.624
		Right	1 995.00	-26.892
	16QAM	Left	1 930.00	-25.790
		Right	1 995.00	-25.849
	64QAM	Left	1 930.00	-23.586
		Right	1 995.00	-26.223
	256QAM	Left	1 930.00	-25.630
		Right	1 995.00	-25.650
Port 1	QPSK	Left	1 930.00	-26.535
		Right	1 995.00	-26.417
	16QAM	Left	1 930.00	-27.327
		Right	1 995.00	-27.839
	64QAM	Left	1 930.00	-25.450
		Right	1 995.00	-26.992
	256QAM	Left	1 930.00	-25.683
		Right	1 995.00	-28.143
Port 2	QPSK	Left	1 930.00	-26.338
		Right	1 995.00	-27.369
	16QAM	Left	1 930.00	-26.188
		Right	1 995.00	-26.919
	64QAM	Left	1 930.00	-24.848
		Right	1 995.00	-26.741
	256QAM	Left	1 930.00	-25.836
		Right	1 995.00	-26.978
Port 3	QPSK	Left	1 930.00	-28.479
		Right	1 995.00	-28.781

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
	16QAM	Left	1 930.00	-28.914
		Right	1 995.00	-28.676
	64QAM	Left	1 930.00	-27.878
		Right	1 995.00	-28.854
	256QAM	Left	1 930.00	-27.078
		Right	1 995.00	-27.626

Band edge of 20 MHz Bandwidth / 1 Carrier

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
Port 0	QPSK	Left	1 930.00	-26.105
		Right	1 995.00	-24.453
	16QAM	Left	1 930.00	-25.963
		Right	1 995.00	-24.807
	64QAM	Left	1 930.00	-25.509
		Right	1 995.00	-24.557
	256QAM	Left	1 930.00	-25.592
		Right	1 995.00	-24.704
Port 1	QPSK	Left	1 930.00	-22.931
		Right	1 995.00	-25.704
	16QAM	Left	1 930.00	-25.723
		Right	1 995.00	-26.542
	64QAM	Left	1 930.00	-25.931
		Right	1 995.00	-25.941
	256QAM	Left	1 930.00	-26.445
		Right	1 995.00	-25.236
Port 2	QPSK	Left	1 930.00	-25.584
		Right	1 995.00	-24.889
	16QAM	Left	1 930.00	-25.789
		Right	1 995.00	-25.189
	64QAM	Left	1 930.00	-25.764
		Right	1 995.00	-25.190
	256QAM	Left	1 930.00	-25.655
		Right	1 995.00	-25.466
Port 3	QPSK	Left	1 930.00	-25.916
		Right	1 995.00	-24.424

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
	16QAM	Left	1 930.00	-21.115
		Right	1 995.00	-26.891
	64QAM	Left	1 930.00	-26.349
		Right	1 995.00	-22.455
	256QAM	Left	1 930.00	-26.240
		Right	1 995.00	-25.004

Band edge of 20 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
Port 0	QPSK	Left	1 930.00	-25.970
		Right	1 995.00	-27.518
	16QAM	Left	1 930.00	-26.189
		Right	1 995.00	-27.646
	64QAM	Left	1 930.00	-26.009
		Right	1 995.00	-27.492
	256QAM	Left	1 930.00	-26.168
		Right	1 995.00	-27.854
Port 1	QPSK	Left	1 930.00	-26.630
		Right	1 995.00	-29.849
	16QAM	Left	1 930.00	-27.039
		Right	1 995.00	-29.936
	64QAM	Left	1 930.00	-26.893
		Right	1 995.00	-24.027
	256QAM	Left	1 930.00	-27.510
		Right	1 995.00	-29.982
Port 2	QPSK	Left	1 930.00	-26.932
		Right	1 995.00	-28.105
	16QAM	Left	1 930.00	-27.466
		Right	1 995.00	-28.088
	64QAM	Left	1 930.00	-26.847
		Right	1 995.00	-28.102
	256QAM	Left	1 930.00	-27.140
		Right	1 995.00	-28.606
Port 3	QPSK	Left	1 930.00	-27.627
		Right	1 995.00	-29.631

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
	16QAM	Left	1 930.00	-26.102
		Right	1 995.00	-30.188
	64QAM	Left	1 930.00	-26.204
		Right	1 995.00	-29.648
	256QAM	Left	1 930.00	-28.029
		Right	1 995.00	-30.583

Band edge of 5 MHz Bandwidth / 1 Carrier

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
Port 0	QPSK	Left	1 930.00	-26.829
		Right	1 995.00	-25.750
	16QAM	Left	1 930.00	-28.399
		Right	1 995.00	-26.105
	64QAM	Left	1 930.00	-26.338
		Right	1 995.00	-26.721
	256QAM	Left	1 930.00	-26.373
		Right	1 995.00	-27.748
Port 1	QPSK	Left	1 930.00	-27.790
		Right	1 995.00	-29.313
	16QAM	Left	1 930.00	-28.313
		Right	1 995.00	-27.673
	64QAM	Left	1 930.00	-28.844
		Right	1 995.00	-28.376
	256QAM	Left	1 930.00	-28.889
		Right	1 995.00	-28.701
Port 2	QPSK	Left	1 930.00	-28.543
		Right	1 995.00	-28.164
	16QAM	Left	1 930.00	-28.692
		Right	1 995.00	-26.916
	64QAM	Left	1 930.00	-27.727
		Right	1 995.00	-28.629
	256QAM	Left	1 930.00	-28.357
		Right	1 995.00	-29.375
Port 3	QPSK	Left	1 930.00	-30.436
		Right	1 995.00	-27.949

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
	16QAM	Left	1 930.00	-30.079
		Right	1 995.00	-30.808
	64QAM	Left	1 930.00	-30.433
		Right	1 995.00	-29.503
	256QAM	Left	1 930.00	-29.793
		Right	1 995.00	-29.713

Band edge of 5 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
Port 0	QPSK	Left	1 930.00	-24.594
		Right	1 995.00	-26.552
	16QAM	Left	1 930.00	-23.858
		Right	1 995.00	-25.978
	64QAM	Left	1 930.00	-23.578
		Right	1 995.00	-26.649
	256QAM	Left	1 930.00	-23.443
		Right	1 995.00	-25.756
Port 1	QPSK	Left	1 930.00	-29.316
		Right	1 995.00	-29.535
	16QAM	Left	1 930.00	-29.441
		Right	1 995.00	-28.480
	64QAM	Left	1 930.00	-28.250
		Right	1 995.00	-27.711
	256QAM	Left	1 930.00	-21.168
		Right	1 995.00	-27.810
Port 2	QPSK	Left	1 930.00	-24.297
		Right	1 995.00	-27.996
	16QAM	Left	1 930.00	-24.718
		Right	1 995.00	-27.682
	64QAM	Left	1 930.00	-24.802
		Right	1 995.00	-27.955
	256QAM	Left	1 930.00	-23.876
		Right	1 995.00	-26.960
Port 3	QPSK	Left	1 930.00	-28.837
		Right	1 995.00	-30.017

Port	Modulation	Point	Frequency (MHz)	Measured band edge (dBm)
	16QAM	Left	1 930.00	-27.756
		Right	1 995.00	-29.124
	64QAM	Left	1 930.00	-28.225
		Right	1 995.00	-30.076
	256QAM	Left	1 930.00	-28.173
		Right	1 995.00	-28.853

NB-IoT

Port	Modulation	Channel	Frequency (MHz)	Measured band edge (dBm)
Port 0	BPSK	Low	1930.00	-27.608
		High	1995.00	-28.876
Port 1		Low	1930.00	-28.328
		High	1995.00	-28.878
Port 2		Low	1930.00	-27.959
		High	1995.00	-29.019
Port 3		Low	1930.00	-29.103
		High	1995.00	-29.741

Suprious Emissions (Below 1 GHz) of 3 MHz Bandwidth / 1 Carrier

Port	Mod.	Ch.	9 kHz ~ 150 kHz		150 kHz ~ 30 MHz		30 MHz ~ Low Edge-100 MHz		Low Edge – 100 MHz ~ Low Edge	
			Freq (kHz)	Emission (dBm)	Freq (kHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
0	QPSK	L	14.781	-23.793	164.925	-28.398	1678.08	-41.538	1926.95	-25.915
		M	15.063	-23.240	154.975	-27.524	382.98	-37.845	1907.70	-28.207
		H	10.269	-23.632	154.975	-26.546	1732.53	-40.966	1926.56	-27.554
	16QAM	L	9.141	-21.906	154.975	-26.484	1681.68	-40.923	1926.81	-25.844
		M	10.410	-22.273	150.000	-28.083	382.08	-39.873	1926.13	-27.081
		H	15.204	-24.170	154.975	-25.855	1773.57	-41.322	1926.22	-27.100
	64QAM	L	15.486	-21.853	150.000	-26.488	336.63	-39.653	1926.66	-25.651
		M	12.807	-23.433	154.975	-27.206	1806.15	-42.065	1926.71	-27.589
		H	14.217	-22.561	150.000	-25.626	429.24	-40.524	1926.32	-26.971
	256QAM	L	14.499	-23.657	150.000	-25.903	1829.01	-42.184	1926.56	-24.442
		M	12.102	-22.698	154.975	-26.198	1794.72	-42.054	1926.47	-27.596
		H	13.512	-23.169	150.000	-26.058	1745.67	-41.819	1925.88	-28.274
1	QPSK	L	13.653	-23.454	150.000	-25.885	336.54	-37.963	1925.79	-25.257
		M	12.948	-22.641	154.975	-26.854	1652.43	-42.324	1926.61	-26.739
		H	28.317	-23.746	150.000	-27.348	1755.03	-42.020	1925.88	-26.691
	16QAM	L	10.692	-22.832	150.000	-25.138	1660.08	-40.040	1926.52	-25.320
		M	9.705	-23.780	150.000	-26.010	383.25	-41.283	1924.38	-26.542
		H	43.545	-23.482	154.975	-27.390	429.87	-42.241	1926.52	-26.247
	64QAM	L	10.128	-23.715	150.000	-26.764	335.82	-42.094	1926.71	-24.953
		M	12.243	-23.416	154.975	-27.367	1753.59	-40.746	1926.47	-26.112
		H	11.679	-22.465	154.975	-27.674	1773.57	-41.953	1924.53	-25.497
	256QAM	L	16.473	-23.277	150.000	-25.295	1702.47	-41.250	1926.81	-23.045
		M	16.473	-23.301	150.000	-27.452	382.80	-41.992	1926.76	-25.802
		H	14.781	-22.890	159.950	-28.163	1770.33	-42.144	1925.21	-26.475

Port	Mod.	Ch.	9 kHz ~ 150 kHz		150 kHz ~ 30 MHz		30 MHz ~ Low Edge-100 MHz		Low Edge – 100 MHz ~ Low Edge	
			Freq (kHz)	Emission (dBm)	Freq (kHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
2	QPSK	L	10.128	-23.255	150.000	-26.436	337.26	-40.917	1926.66	-24.327
		M	9.564	-23.480	154.975	-26.366	1700.76	-42.124	1925.79	-26.178
		H	10.974	-24.561	164.925	-27.743	1773.39	-41.942	1926.18	-26.755
	16QAM	L	13.371	-23.860	169.900	-26.987	1817.94	-41.484	1925.74	-25.499
		M	11.679	-22.859	154.975	-27.654	382.26	-41.874	1925.98	-26.555
		H	9.141	-23.263	150.000	-25.587	1746.75	-42.309	1926.76	-26.559
	64QAM	L	11.256	-23.884	159.950	-27.294	1614.54	-41.776	1926.56	-25.743
		M	12.384	-23.365	150.000	-25.670	383.34	-39.638	1926.81	-26.921
		H	12.384	-22.902	159.950	-26.912	1808.49	-40.810	1926.42	-27.399
	256QAM	L	12.102	-24.184	150.000	-27.051	1794.63	-41.646	1927.00	-23.130
		M	13.089	-22.431	150.000	-25.496	1759.53	-42.218	1924.96	-27.106
		H	14.358	-24.578	154.975	-27.054	1800.30	-41.816	1926.37	-27.452
3	QPSK	L	14.640	-23.417	164.925	-26.866	1627.41	-42.187	1926.85	-24.931
		M	11.538	-23.502	150.000	-27.518	1750.08	-42.057	1925.74	-26.333
		H	121.659	-24.137	150.000	-26.583	429.96	-42.241	1926.47	-27.190
	16QAM	L	9.000	-23.467	150.000	-26.953	1728.03	-41.887	1926.61	-23.858
		M	10.833	-21.711	150.000	-28.278	382.44	-39.951	1925.59	-26.523
		H	15.768	-22.290	159.950	-27.534	1803.63	-40.351	1926.42	-27.370
	64QAM	L	13.089	-23.970	159.950	-27.749	336.27	-40.804	1925.84	-24.964
		M	9.846	-23.394	150.000	-26.471	382.89	-40.150	1926.27	-26.610
		H	13.089	-22.550	154.975	-26.874	430.32	-40.867	1925.45	-26.075
	256QAM	L	11.538	-23.075	150.000	-27.652	1677.63	-41.607	1926.76	-22.735
		M	9.282	-23.167	154.975	-26.554	1742.43	-41.524	1926.42	-26.383
		H	9.141	-24.201	150.000	-25.980	1782.84	-40.730	1926.47	-27.169

* This test report only contains the worst case plot data for each port and modulation.

Spurious Emissions (Above 1 GHz) of 3 MHz Bandwidth / 1 Carrier

Port	Mod.	Ch.	High Edge ~ High Edge + 100 MHz		High Edge + 100 MHz ~ 10 GHz		10 GHz ~ 26.5 GHz	
			Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
0	QPSK	L	2063.23	-28.406	9459.69	-33.389	25896.51	-21.995
		M	1998.19	-27.400	5802.84	-33.043	26289.63	-22.106
		H	1998.97	-26.926	9558.11	-32.773	25908.06	-21.406
	16QAM	L	2040.15	-27.941	7412.30	-33.119	26003.76	-21.834
		M	2064.93	-28.271	6942.74	-33.409	26028.51	-21.881
		H	1998.24	-28.242	9528.86	-32.574	26028.10	-21.909
	64QAM	L	2056.88	-28.189	7494.91	-33.017	25927.86	-21.869
		M	1998.15	-27.707	6101.25	-33.255	25920.85	-21.841
		H	1998.05	-26.568	9551.00	-33.099	25995.10	-21.997
	256QAM	L	2045.82	-27.993	9518.19	-33.500	25896.51	-21.123
		M	2022.54	-28.367	7314.67	-33.218	26014.49	-21.428
		H	1998.05	-26.953	9984.19	-32.891	25922.91	-21.542
1	QPSK	L	2066.92	-28.269	6057.38	-33.078	26013.66	-21.762
		M	2011.05	-28.269	6914.28	-33.327	25986.44	-21.433
		H	2077.25	-27.990	9368.00	-32.961	25915.90	-21.845
	16QAM	L	2001.73	-27.861	5597.31	-33.119	25990.56	-21.487
		M	2061.73	-27.763	6940.37	-33.191	25884.96	-21.392
		H	1998.00	-28.231	9544.28	-32.947	25990.15	-21.888
	64QAM	L	2037.09	-28.623	6995.31	-33.184	25993.45	-22.034
		M	2002.80	-28.449	6410.34	-33.165	26045.84	-21.706
		H	2058.87	-28.421	5966.08	-32.848	26016.55	-21.719
	256QAM	L	2042.43	-28.037	7570.00	-32.875	25976.95	-21.208
		M	2042.33	-28.415	6892.94	-33.138	25915.49	-20.673
		H	2002.07	-28.014	7432.46	-32.719	26019.03	-21.702

Port	Mod.	Ch.	High Edge ~ High Edge + 100 MHz		High Edge + 100 MHz ~ 10 GHz		10 GHz ~ 26.5 GHz	
			Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
2	QPSK	L	1998.05	-28.259	9494.87	-33.353	25995.93	-21.130
		M	2030.64	-28.196	7391.75	-33.326	26007.06	-21.507
		H	1998.00	-27.556	8806.74	-33.066	25873.83	-21.585
	16QAM	L	2041.26	-28.470	9997.23	-33.286	25976.95	-21.924
		M	1998.19	-28.057	7304.00	-33.523	26034.29	-22.135
		H	1998.24	-27.865	7457.75	-33.111	25940.24	-21.639
	64QAM	L	1998.00	-28.130	7451.43	-33.343	25977.36	-21.508
		M	2011.53	-28.147	7243.13	-33.492	25899.81	-20.995
		H	2094.37	-27.944	9481.83	-33.076	25987.26	-21.632
	256QAM	L	2029.14	-28.412	9009.50	-32.946	25983.55	-21.912
		M	2019.05	-28.483	9473.13	-33.402	26068.11	-21.845
		H	2014.93	-28.207	5945.92	-33.459	25911.78	-20.792
3	QPSK	L	2061.78	-27.957	7582.26	-32.460	25978.19	-21.774
		M	2016.43	-28.046	9471.95	-33.561	26054.91	-22.546
		H	1998.00	-26.634	6053.03	-33.399	26019.44	-21.694
	16QAM	L	2072.21	-27.620	7415.46	-33.332	26012.01	-21.590
		M	2091.56	-28.354	9525.70	-33.105	25995.93	-22.190
		H	1998.10	-26.683	9583.41	-33.375	26026.04	-21.854
	64QAM	L	2057.51	-28.221	7433.25	-33.352	25995.10	-21.204
		M	1998.10	-27.873	9527.28	-33.229	26003.35	-22.137
		H	1998.00	-27.726	9471.55	-32.413	26035.53	-21.270
	256QAM	L	1998.39	-28.006	9558.90	-32.994	26005.41	-22.099
		M	1998.05	-27.882	7978.69	-33.502	25899.81	-21.678
		H	1998.10	-27.446	5989.00	-33.419	25895.69	-21.961

* This test report only contains the worst case plot data for each port and modulation.

Spurious Emissions (Below 1 GHz) of 3 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

Port	Mod.	Ch.	9 kHz ~ 150 kHz		150 kHz ~ 30 MHz		30 MHz ~ Low Edge-100 MHz		Low Edge – 100 MHz ~ Low Edge	
			Freq (kHz)	Emission (dBm)	Freq (kHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
0	QPSK	L	11.397	-20.865	150.000	-24.991	340.68	-34.186	1924.81	-21.292
		M	75.411	-20.556	150.000	-27.843	383.07	-33.916	1923.58	-27.898
		H	10.410	-20.829	154.975	-25.986	427.44	-36.067	1924.10	-28.359
	16QAM	L	12.102	-19.508	150.000	-26.885	341.85	-33.631	1924.95	-22.726
		M	71.181	-19.322	150.000	-27.564	380.01	-35.678	1924.72	-27.840
		H	71.181	-20.742	150.000	-25.764	426.54	-35.036	1897.12	-28.652
	64QAM	L	18.729	-21.999	150.000	-26.453	338.34	-35.829	1925.00	-21.703
		M	10.551	-21.880	150.000	-26.115	384.42	-35.236	1924.86	-27.752
		H	16.473	-20.552	154.975	-27.154	424.83	-33.883	1832.61	-28.488
	256QAM	L	14.640	-21.258	150.000	-25.774	339.60	-34.379	1925.00	-23.344
		M	13.794	-20.799	150.000	-26.734	382.80	-33.914	1925.00	-27.944
		H	106.713	-20.197	150.000	-25.582	426.09	-35.361	1924.95	-28.217
1	QPSK	L	75.975	-21.025	154.975	-25.521	342.12	-33.209	1924.95	-21.422
		M	76.116	-20.857	150.000	-25.901	382.98	-31.222	1924.62	-26.796
		H	75.411	-21.902	150.000	-25.484	425.01	-35.657	1924.43	-27.177
	16QAM	L	70.758	-20.390	150.000	-26.130	340.23	-32.753	1924.86	-20.649
		M	10.410	-20.056	154.975	-25.886	382.53	-35.286	1923.29	-27.184
		H	12.384	-19.796	184.825	-28.383	425.55	-34.301	1924.95	-27.570
	64QAM	L	10.269	-21.625	150.000	-26.087	340.95	-35.795	1924.76	-21.718
		M	56.094	-21.559	159.950	-26.766	383.52	-33.403	1924.81	-27.833
		H	58.914	-21.546	150.000	-27.198	428.07	-35.223	1923.86	-27.278
	256QAM	L	14.640	-20.931	159.950	-26.833	339.33	-36.156	1924.91	-21.839
		M	107.277	-20.452	150.000	-25.656	382.62	-34.486	1924.34	-27.153
		H	145.770	-21.157	159.950	-26.157	426.99	-33.867	1924.95	-27.830

Port	Mod.	Ch.	9 kHz ~ 150 kHz		150 kHz ~ 30 MHz		30 MHz ~ Low Edge-100 MHz		Low Edge – 100 MHz ~ Low Edge	
			Freq (kHz)	Emission (dBm)	Freq (kHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
2	QPSK	L	14.640	-21.542	154.975	-26.281	338.97	-34.627	1925.00	-21.624
		M	10.974	-21.720	159.950	-26.480	382.53	-33.993	1924.62	-28.390
		H	75.411	-21.379	150.000	-26.121	425.91	-35.995	1924.95	-28.771
	16QAM	L	70.617	-20.969	159.950	-26.633	340.68	-35.185	1924.91	-23.157
		M	13.935	-20.160	150.000	-25.788	382.62	-35.108	1924.86	-26.923
		H	12.525	-21.450	150.000	-26.564	425.55	-36.893	1900.78	-28.239
	64QAM	L	12.807	-22.466	154.975	-26.583	339.78	-36.102	1924.81	-21.571
		M	120.108	-22.085	150.000	-28.391	384.51	-35.507	1899.07	-27.938
		H	12.948	-21.609	164.925	-27.048	424.47	-34.516	1905.05	-28.646
	256QAM	L	11.961	-20.872	150.000	-25.493	338.61	-35.084	1924.86	-21.828
		M	16.473	-21.023	150.000	-25.499	383.97	-35.229	1924.76	-28.191
		H	33.534	-21.816	159.950	-26.074	426.90	-35.466	1924.86	-28.314
3	QPSK	L	28.035	-21.365	150.000	-26.341	340.59	-33.232	1924.95	-22.027
		M	75.693	-19.153	154.975	-25.741	384.51	-33.737	1923.86	-27.666
		H	75.693	-20.669	150.000	-25.561	428.43	-35.417	1924.48	-27.389
	16QAM	L	13.653	-19.721	154.975	-27.342	341.67	-35.030	1924.57	-22.536
		M	38.892	-19.805	154.975	-26.347	381.81	-34.392	1923.58	-27.890
		H	93.741	-19.542	150.000	-25.637	427.08	-36.924	1924.81	-28.122
	64QAM	L	56.094	-20.828	159.950	-26.078	341.22	-34.688	1924.86	-22.190
		M	10.128	-21.471	159.950	-26.608	384.69	-35.513	1925.00	-26.980
		H	119.544	-21.313	159.950	-25.784	426.99	-35.164	1924.91	-27.485
	256QAM	L	15.627	-20.030	174.875	-27.254	340.14	-34.410	1924.34	-20.262
		M	12.102	-20.449	150.000	-25.468	383.88	-35.019	1924.95	-27.824
		H	32.406	-21.297	150.000	-28.130	425.82	-35.002	1924.24	-27.087

* This test report only contains the worst case plot data for each port and modulation.

Spurious Emissions (Above 1 GHz) of 3 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

Port	Mod.	Ch.	High Edge ~ High Edge + 100 MHz		High Edge + 100 MHz ~ 10 GHz		10 GHz ~ 26.5 GHz	
			Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
0	QPSK	L	2007.89	-28.235	7391.75	-32.933	26003.76	-21.275
		M	2014.88	-27.532	9467.60	-33.570	25832.58	-21.569
		H	1998.10	-26.316	7645.50	-33.466	25904.35	-21.817
	16QAM	L	2091.22	-28.315	7440.36	-32.785	25998.40	-21.480
		M	2076.42	-27.596	9492.50	-33.365	26009.54	-21.735
		H	1998.10	-26.817	5972.80	-33.472	25914.25	-21.805
	64QAM	L	1999.16	-27.938	9511.47	-32.963	26008.30	-21.668
		M	2079.72	-28.349	8071.58	-33.276	25910.13	-21.132
		H	1998.00	-25.821	7057.36	-33.235	25968.70	-21.615
	256QAM	L	2050.04	-27.590	6949.07	-33.378	25994.69	-21.427
		M	2009.25	-28.337	6066.87	-33.090	26005.41	-21.597
		H	1998.00	-24.819	6081.49	-33.358	25998.81	-21.251
1	QPSK	L	2083.31	-28.450	5964.10	-33.479	25962.10	-21.251
		M	2004.45	-27.902	5921.42	-33.008	26053.26	-21.529
		H	1998.05	-27.460	6745.91	-33.518	25977.36	-21.202
	16QAM	L	2061.87	-28.326	9579.85	-33.259	26034.29	-21.985
		M	2043.78	-28.091	6981.87	-33.099	25912.60	-20.951
		H	1998.29	-27.381	7513.48	-33.478	26059.04	-22.171
	64QAM	L	2010.22	-28.108	6917.45	-33.293	26042.95	-21.458
		M	2053.97	-27.904	6041.18	-32.515	26028.10	-21.129
		H	2073.51	-27.680	9998.02	-32.937	26002.94	-20.989
	256QAM	L	2025.98	-27.780	9581.83	-33.153	25901.88	-21.725
		M	2052.56	-28.033	6881.87	-33.224	25975.71	-21.715
		H	1998.29	-26.931	7003.21	-33.031	25989.74	-21.908

Port	Mod.	Ch.	High Edge ~ High Edge + 100 MHz		High Edge + 100 MHz ~ 10 GHz		10 GHz ~ 26.5 GHz	
			Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
2	QPSK	L	2092.96	-28.099	5600.08	-32.994	26029.34	-21.404
		M	2037.43	-28.063	9509.89	-32.592	25995.10	-22.058
		H	1998.00	-27.660	9414.24	-33.199	25998.81	-21.288
	16QAM	L	2093.01	-27.355	7447.08	-32.946	26017.38	-21.370
		M	1998.05	-27.879	8352.99	-33.392	26016.55	-21.763
		H	1998.39	-25.998	9565.23	-32.834	25982.73	-21.777
	64QAM	L	2082.88	-28.276	7996.08	-32.714	26005.41	-21.576
		M	2030.35	-28.371	6987.80	-33.335	25909.71	-21.673
		H	1998.00	-26.566	9430.84	-32.972	25973.65	-21.725
	256QAM	L	2053.29	-28.196	9967.98	-33.179	25910.13	-21.756
		M	1998.29	-28.477	8104.78	-32.741	25947.25	-21.319
		H	1998.00	-28.325	9562.46	-33.139	25936.94	-21.509
3	QPSK	L	2066.00	-28.286	7466.45	-33.519	25896.10	-21.336
		M	2044.80	-27.681	9498.43	-33.081	26005.00	-21.691
		H	1998.00	-24.891	9604.35	-33.503	26042.95	-21.722
	16QAM	L	2061.20	-28.090	6907.96	-32.890	26002.11	-21.673
		M	1998.00	-28.114	9495.27	-33.172	26029.75	-21.595
		H	1998.05	-26.226	9581.04	-33.294	26009.54	-21.304
	64QAM	L	2055.91	-28.165	9407.92	-33.524	25910.13	-21.886
		M	2057.90	-28.358	7413.09	-32.871	26040.89	-21.715
		H	1998.19	-27.547	8119.40	-33.024	26009.54	-21.658
	256QAM	L	2000.96	-28.457	6056.59	-33.399	25948.90	-21.686
		M	2044.12	-28.126	7584.63	-32.940	25995.51	-21.412
		H	1998.05	-26.776	9435.98	-33.183	26004.59	-21.360

* This test report only contains the worst case plot data for each port and modulation.

Spurious Emissions (Below 1 GHz) of 20 MHz Bandwidth / 1 Carrier

Port	Mod.	Ch.	9 kHz ~ 150 kHz		150 kHz ~ 30 MHz		30 MHz ~ Low Edge-100 MHz		Low Edge – 100 MHz ~ Low Edge	
			Freq (kHz)	Emission (dBm)	Freq (kHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
0	QPSK	L	127.581	-35.480	2746.950	-36.357	1673.40	-44.190	1846.36	-39.558
		M	106.008	-35.355	1443.500	-35.916	1660.89	-42.915	1903.44	-39.548
		H	9.987	-26.369	353.975	-40.858	1657.47	-44.890	1835.92	-40.025
	16QAM	L	80.769	-34.719	1493.250	-36.579	1736.76	-44.257	1879.96	-39.663
		M	125.043	-35.215	841.525	-35.539	1759.62	-43.591	1907.28	-39.631
		H	71.886	-33.947	498.250	-35.394	1825.14	-42.925	1882.24	-39.947
	64QAM	L	119.544	-35.164	249.500	-35.731	1723.26	-44.562	1906.68	-39.285
		M	104.175	-35.425	776.850	-36.366	1782.21	-44.335	1842.72	-39.690
		H	55.953	-34.362	488.300	-35.767	1820.01	-43.768	1886.12	-39.337
	256QAM	L	10.692	-34.804	259.450	-35.933	1794.72	-44.283	1854.20	-39.457
		M	91.908	-34.046	259.450	-36.344	1795.53	-43.886	1854.92	-39.907
		H	11.256	-34.384	478.350	-35.265	1410.51	-44.152	1897.36	-39.710
1	QPSK	L	105.867	-35.424	652.475	-36.100	1615.62	-43.700	1901.64	-39.714
		M	137.451	-35.511	3597.675	-35.710	1731.72	-43.418	1906.24	-39.665
		H	74.847	-34.393	433.575	-35.151	1646.31	-43.695	1884.56	-40.245
	16QAM	L	75.129	-34.529	508.200	-36.336	1666.02	-43.860	1908.60	-39.586
		M	10.128	-27.441	3508.125	-39.946	1604.37	-44.290	1874.44	-39.792
		H	131.388	-34.256	1269.375	-35.422	1732.62	-43.604	1868.48	-39.849
	64QAM	L	56.658	-35.918	886.300	-36.806	1770.60	-43.753	1846.00	-39.745
		M	58.914	-35.288	488.300	-35.691	1763.31	-42.995	1851.20	-39.421
		H	77.667	-34.314	1120.125	-35.710	1625.34	-44.130	1894.40	-39.218
	256QAM	L	125.043	-34.881	3259.375	-37.059	1807.32	-43.130	1886.72	-39.234
		M	65.823	-35.049	1627.575	-36.470	1719.57	-44.383	1867.52	-39.567
		H	104.598	-34.621	1294.250	-35.580	1625.61	-44.285	1908.04	-39.306

Port	Mod.	Ch.	9 kHz ~ 150 kHz		150 kHz ~ 30 MHz		30 MHz ~ Low Edge-100 MHz		Low Edge – 100 MHz ~ Low Edge	
			Freq (kHz)	Emission (dBm)	Freq (kHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
2	QPSK	L	13.935	-35.051	1075.350	-36.394	1668.63	-44.229	1880.40	-39.591
		M	133.362	-34.804	324.125	-35.877	1827.84	-43.702	1880.20	-38.974
		H	14.499	-34.511	453.475	-36.450	1764.21	-43.595	1895.84	-39.618
	16QAM	L	71.463	-35.509	672.375	-36.689	1609.41	-44.338	1909.40	-39.549
		M	50.031	-35.707	960.925	-37.207	1663.77	-43.614	1907.24	-39.834
		H	16.050	-34.452	458.450	-36.070	1578.18	-44.157	1900.16	-39.413
	64QAM	L	49.044	-36.327	274.375	-37.118	1811.64	-43.753	1902.64	-39.241
		M	29.445	-36.109	2737.000	-37.118	1772.31	-44.390	1854.40	-39.506
		H	121.659	-35.224	224.625	-36.239	1738.83	-44.296	1908.08	-39.814
	256QAM	L	121.095	-35.252	179.850	-36.818	1798.41	-43.883	1908.56	-39.189
		M	10.128	-28.443	806.700	-41.253	1624.89	-44.078	1899.60	-39.669
		H	83.589	-34.964	1184.800	-35.844	1664.04	-44.008	1864.12	-40.012
3	QPSK	L	9.987	-27.447	1348.975	-41.437	1762.23	-43.764	1832.68	-39.898
		M	79.500	-35.417	1746.975	-36.026	1790.13	-43.291	1894.92	-39.760
		H	125.889	-34.882	538.050	-35.377	1787.88	-43.603	1906.44	-39.436
	16QAM	L	90.780	-34.458	363.925	-36.562	1822.26	-44.185	1853.48	-39.774
		M	106.572	-33.742	413.675	-36.190	1782.30	-44.092	1889.92	-39.992
		H	60.747	-34.048	717.150	-35.654	1795.98	-44.090	1885.20	-39.807
	64QAM	L	30.432	-35.538	552.975	-35.379	1771.86	-44.229	1896.40	-39.345
		M	65.964	-34.244	229.600	-36.230	1573.95	-44.116	1894.88	-39.872
		H	29.445	-34.778	269.400	-34.910	1641.45	-44.074	1901.16	-39.508
	256QAM	L	104.175	-34.386	1861.400	-36.969	1761.87	-44.348	1863.84	-39.073
		M	91.908	-34.832	3637.475	-35.740	1678.71	-44.060	1906.92	-39.025
		H	120.954	-33.537	224.625	-35.851	1636.23	-43.950	1908.52	-39.402

* This test report only contains the worst case plot data for each port and modulation.

Spurious Emissions (Above 1 GHz) of 20 MHz Bandwidth / 1 Carrier

Port	Mod.	Ch.	High Edge ~ High Edge + 100 MHz		High Edge + 100 MHz ~ 10 GHz		10 GHz ~ 26.5 GHz	
			Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
0	QPSK	L	2042.36	-38.972	9950.99	-31.888	25425.03	-26.000
		M	2029.92	-38.533	9977.47	-31.387	25488.96	-26.270
		H	2052.04	-39.293	9937.16	-32.286	25468.34	-26.417
	16QAM	L	2037.44	-39.323	9939.53	-31.937	25474.53	-26.488
		M	2056.12	-39.319	9935.57	-31.807	25538.46	-26.254
		H	2056.72	-38.543	9966.01	-31.492	25493.09	-26.393
	64QAM	L	2031.92	-39.278	9941.90	-31.540	25457.61	-26.409
		M	2035.28	-39.017	9989.72	-31.876	25500.93	-26.660
		H	2091.56	-39.118	9964.82	-31.949	25510.41	-26.919
	256QAM	L	2016.84	-38.539	9951.38	-31.112	25475.76	-26.465
		M	2055.60	-39.404	9970.36	-31.288	25494.33	-26.517
		H	2030.32	-39.081	9935.18	-32.310	25446.48	-25.661
1	QPSK	L	2045.68	-39.311	9951.38	-31.623	25473.70	-26.639
		M	2035.32	-39.203	9954.15	-31.225	25429.56	-26.634
		H	2019.68	-39.171	9967.19	-31.812	25536.81	-26.278
	16QAM	L	2036.08	-39.484	9979.05	-30.907	25517.01	-26.759
		M	2082.24	-39.480	9945.46	-31.915	25466.69	-26.412
		H	2042.48	-39.059	9922.14	-32.382	25522.79	-26.545
	64QAM	L	2071.76	-39.072	9945.06	-31.927	25427.50	-26.665
		M	2058.68	-39.214	9949.01	-31.564	25493.50	-26.656
		H	2046.48	-39.247	9966.01	-32.114	25440.70	-26.174
	256QAM	L	2023.36	-38.286	9941.90	-31.353	25527.33	-26.676
		M	2034.76	-39.031	9986.56	-31.758	25496.39	-26.179
		H	2019.88	-39.418	9936.36	-32.127	25508.35	-26.865

Port	Mod.	Ch.	High Edge ~ High Edge + 100 MHz		High Edge + 100 MHz ~ 10 GHz		10 GHz ~ 26.5 GHz	
			Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
2	QPSK	L	2066.32	-38.923	9986.96	-31.864	25451.43	-26.425
		M	2072.20	-39.167	9950.20	-31.916	25483.19	-26.000
		H	2089.20	-39.353	9908.70	-31.354	25516.60	-26.598
	16QAM	L	2093.52	-38.654	9994.86	-31.546	25542.59	-26.664
		M	2086.88	-38.311	9966.80	-32.232	25432.86	-26.196
		H	2062.96	-39.160	9939.13	-31.127	25530.21	-26.658
	64QAM	L	2078.36	-39.079	9984.19	-31.307	25502.99	-26.282
		M	2064.76	-39.567	9942.69	-31.794	25484.84	-26.524
		H	2037.12	-39.101	9964.03	-32.016	25494.33	-26.652
	256QAM	L	2016.40	-39.246	9958.10	-31.448	25430.39	-26.514
		M	2086.72	-39.425	9964.43	-31.699	25465.04	-26.093
		H	2027.04	-39.072	9986.56	-31.819	25493.09	-26.459
3	QPSK	L	2078.52	-39.362	9994.86	-31.636	25375.11	-26.520
		M	2024.84	-38.893	9994.47	-32.075	25511.24	-26.360
		H	2057.72	-39.343	9997.23	-31.670	25538.05	-26.875
	16QAM	L	2032.40	-39.382	9921.35	-31.838	25493.50	-26.120
		M	2024.84	-39.196	9975.49	-31.701	25476.59	-26.448
		H	2035.36	-39.059	9941.90	-31.618	25533.93	-26.070
	64QAM	L	2079.24	-39.470	9916.21	-31.661	25498.04	-26.804
		M	2094.32	-39.244	9960.48	-31.346	25481.54	-26.446
		H	2031.12	-39.197	9957.31	-31.878	25494.33	-26.517
	256QAM	L	2055.40	-39.046	9960.87	-31.824	25478.24	-26.520
		M	2043.88	-39.243	9996.84	-31.593	25441.94	-26.515
		H	2023.56	-39.190	9937.16	-31.951	25516.60	-26.588

* This test report only contains the worst case plot data for each port and modulation.

Spuiours Emissions (Below 1 GHz) of 20 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

Port	Mod.	Ch.	9 kHz ~ 150 kHz		150 kHz ~ 30 MHz		30 MHz ~ Low Edge-100 MHz		Low Edge – 100 MHz ~ Low Edge	
			Freq (kHz)	Emission (dBm)	Freq (kHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
0	QPSK	L	12.948	-35.381	189.800	-36.383	1644.87	-43.895	1902.20	-39.070
		M	58.914	-34.121	358.950	-36.047	1754.31	-44.213	1909.88	-39.169
		H	133.926	-33.299	453.475	-35.978	1700.67	-44.452	1896.60	-39.344
	16QAM	L	72.309	-33.362	747.000	-36.309	1819.20	-43.887	1898.40	-39.465
		M	20.985	-34.494	1234.550	-35.915	1631.37	-43.597	1903.12	-38.763
		H	72.027	-32.333	1269.375	-35.862	1667.55	-43.836	1831.32	-39.606
	64QAM	L	23.805	-33.378	498.250	-36.250	1809.57	-43.290	1908.84	-38.693
		M	89.511	-34.912	1055.450	-36.170	1659.63	-43.622	1903.24	-39.587
		H	109.674	-34.073	150.000	-35.188	1740.54	-43.927	1893.28	-39.518
	256QAM	L	61.029	-34.355	483.325	-36.304	1773.84	-44.523	1908.12	-39.771
		M	149.013	-34.533	1105.200	-35.883	1579.26	-44.099	1904.76	-39.883
		H	102.342	-34.100	294.275	-34.877	1620.66	-44.084	1835.76	-39.921
1	QPSK	L	59.478	-34.402	179.850	-35.246	1597.53	-44.200	1907.12	-39.341
		M	82.461	-34.207	2329.050	-36.081	1702.92	-43.656	1841.20	-39.609
		H	15.204	-31.462	627.600	-35.998	1755.66	-43.605	1854.76	-39.665
	16QAM	L	72.168	-33.734	154.975	-36.548	1705.44	-43.446	1870.40	-39.221
		M	124.056	-33.571	587.800	-36.315	1766.28	-44.274	1879.32	-39.314
		H	74.142	-33.590	159.950	-34.963	1709.22	-43.875	1908.24	-40.213
	64QAM	L	41.571	-34.481	189.800	-36.555	1688.43	-43.366	1909.32	-38.551
		M	66.246	-34.579	239.550	-36.112	1513.38	-44.053	1871.48	-39.394
		H	10.269	-30.998	324.125	-35.521	1780.77	-44.502	1891.96	-39.243
	256QAM	L	102.342	-34.965	871.375	-36.684	1670.07	-43.761	1909.84	-38.692
		M	119.544	-34.167	284.325	-36.548	1773.66	-43.885	1836.08	-39.231
		H	148.872	-33.239	692.275	-35.116	1648.38	-44.060	1907.00	-39.277

Port	Mod.	Ch.	9 kHz ~ 150 kHz		150 kHz ~ 30 MHz		30 MHz ~ Low Edge-100 MHz		Low Edge – 100 MHz ~ Low Edge	
			Freq (kHz)	Emission (dBm)	Freq (kHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
2	QPSK	L	125.889	-33.369	647.500	-37.704	1641.72	-43.897	1902.04	-39.608
		M	27.612	-35.777	751.975	-37.265	1563.42	-44.223	1901.36	-39.808
		H	75.129	-34.609	1861.400	-36.214	1649.01	-44.012	1854.16	-39.663
	16QAM	L	123.492	-35.116	229.600	-36.994	1736.94	-44.353	1887.24	-39.273
		M	30.150	-33.897	159.950	-36.763	1797.15	-43.749	1839.32	-39.143
		H	72.873	-33.426	936.050	-36.111	1801.29	-44.106	1882.32	-40.080
	64QAM	L	32.265	-36.067	154.975	-37.673	1653.42	-44.180	1845.88	-39.561
		M	9.846	-33.666	891.275	-36.754	1550.55	-44.319	1855.28	-39.495
		H	89.370	-34.016	562.925	-35.743	1609.41	-43.680	1895.48	-39.682
	256QAM	L	125.043	-35.844	279.350	-37.201	1787.70	-43.128	1898.16	-39.808
		M	148.872	-34.797	488.300	-37.310	1762.77	-44.205	1893.64	-39.453
		H	149.295	-34.531	478.350	-36.690	1727.13	-44.424	1857.60	-39.485
3	QPSK	L	51.159	-35.103	194.775	-36.690	1501.86	-44.428	1908.28	-39.216
		M	58.491	-33.785	1314.150	-36.399	1754.31	-44.676	1860.52	-39.701
		H	78.795	-33.283	587.800	-35.886	1789.41	-43.786	1908.24	-39.520
	16QAM	L	128.145	-34.051	1000.725	-36.418	1817.40	-43.986	1907.04	-38.995
		M	74.001	-33.115	592.775	-35.889	1788.06	-44.406	1894.60	-39.600
		H	72.450	-33.145	617.650	-35.715	1783.20	-44.230	1852.96	-39.763
	64QAM	L	61.311	-34.219	433.575	-36.785	1728.12	-44.073	1883.32	-39.830
		M	58.209	-34.960	224.625	-36.053	1774.65	-44.287	1892.72	-39.507
		H	30.714	-33.457	159.950	-35.464	1626.60	-43.927	1876.36	-39.576
	256QAM	L	70.335	-34.578	513.175	-35.996	1790.49	-42.976	1909.04	-39.234
		M	34.803	-33.327	498.250	-35.149	1708.41	-44.277	1838.12	-39.450
		H	120.672	-34.332	901.225	-35.528	1789.14	-44.385	1908.72	-39.154

* This test report only contains the worst case plot data for each port and modulation.

Spurious Emissions (Above 1 GHz) of 20 MHz Bandwidth + 5 MHz Bandwidth / 2 Carriers

Port	Mod.	Ch.	High Edge ~ High Edge + 100 MHz		High Edge + 100 MHz ~ 10 GHz		10 GHz ~ 26.5 GHz	
			Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
0	QPSK	L	2013.40	-39.565	9919.76	-31.700	25477.00	-25.986
		M	2022.56	-38.951	9945.06	-32.052	25498.86	-26.639
		H	2004.23	-29.504	9941.90	-31.668	25482.78	-26.481
	16QAM	L	2071.30	-38.983	9940.71	-31.474	25470.81	-26.326
		M	2059.14	-39.102	9925.30	-32.275	25469.16	-26.602
		H	2003.33	-30.247	9961.27	-31.621	25460.09	-26.629
	64QAM	L	2006.03	-39.310	9973.91	-31.131	25505.46	-26.302
		M	2056.62	-39.169	9990.51	-31.921	25402.75	-26.120
		H	2004.04	-29.676	9981.03	-32.041	25513.30	-26.450
	256QAM	L	2053.06	-39.300	9940.32	-31.997	25476.59	-25.275
		M	2089.16	-39.330	9933.60	-31.936	25497.63	-26.689
		H	2004.18	-30.717	9939.53	-31.755	25498.86	-25.746
1	QPSK	L	2054.58	-39.069	9960.87	-32.128	25495.56	-26.488
		M	2017.96	-38.302	9967.19	-31.575	25461.33	-26.397
		H	2000.24	-29.788	9767.99	-31.759	25508.35	-26.265
	16QAM	L	2004.42	-38.688	9962.06	-30.904	25514.13	-26.415
		M	2068.02	-38.803	9935.57	-32.437	25525.26	-26.129
		H	2003.94	-29.724	9972.73	-31.079	25445.65	-26.209
	64QAM	L	2027.74	-39.339	9945.85	-32.315	25473.29	-26.094
		M	2051.87	-38.840	9980.24	-32.521	25457.61	-26.257
		H	2000.33	-36.772	9977.47	-31.314	25467.51	-26.611
	256QAM	L	2053.15	-39.152	9979.05	-31.836	25566.10	-26.647
		M	2026.89	-39.451	9934.78	-31.311	25554.96	-26.439
		H	2002.00	-29.721	9945.46	-31.136	25444.00	-26.316

Port	Mod.	Ch.	High Edge ~ High Edge + 100 MHz		High Edge + 100 MHz ~ 10 GHz		10 GHz ~ 26.5 GHz	
			Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
2	QPSK	L	2066.07	-38.884	6962.50	-32.033	25521.96	-25.984
		M	2064.41	-38.970	9937.95	-31.881	25571.46	-26.250
		H	2004.04	-32.360	9983.00	-31.630	25475.35	-25.976
	16QAM	L	2043.08	-38.773	9933.20	-31.777	25457.61	-26.582
		M	2001.28	-38.859	9968.78	-31.582	25516.19	-26.826
		H	2005.37	-32.699	9952.57	-31.460	25499.28	-26.247
	64QAM	L	2000.71	-38.885	9911.86	-31.322	25451.01	-26.047
		M	2067.97	-39.038	9962.06	-31.262	25507.53	-26.339
		H	2002.19	-32.605	9946.25	-31.773	25515.78	-26.680
	256QAM	L	2060.18	-38.561	9969.96	-31.805	25514.13	-26.485
		M	2019.67	-39.061	9945.85	-31.915	25458.03	-26.724
		H	2002.85	-32.154	9952.17	-31.077	25427.09	-26.050
3	QPSK	L	2002.99	-38.559	9935.57	-31.845	25557.85	-26.388
		M	2026.70	-38.610	9967.98	-31.624	25417.60	-25.578
		H	2001.43	-29.961	9948.62	-31.909	25487.31	-26.496
	16QAM	L	2000.71	-38.511	9960.48	-32.263	25410.18	-26.738
		M	2000.62	-38.314	9962.85	-31.024	25518.25	-26.507
		H	2000.00	-30.096	9804.75	-31.282	25621.79	-26.306
	64QAM	L	2005.04	-39.251	9932.41	-32.159	25492.26	-26.090
		M	2000.67	-38.391	9964.03	-31.657	25422.96	-25.734
		H	2000.90	-30.119	9982.21	-31.248	25554.14	-25.558
	256QAM	L	2013.49	-38.591	9930.83	-31.614	25411.00	-25.636
		M	2070.54	-39.026	9960.08	-30.803	25502.16	-26.360
		H	2002.80	-29.729	9956.92	-31.862	25480.30	-26.425

* This test report only contains the worst case plot data for each port and modulation.

Spurious Emissions (Below 1 GHz) of 5 MHz Bandwidth / 1 Carrier

Port	Mod.	Ch.	9 kHz ~ 150 kHz		150 kHz ~ 30 MHz		30 MHz ~ Low Edge-100 MHz		Low Edge – 100 MHz ~ Low Edge	
			Freq (kHz)	Emission (dBm)	Freq (kHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
0	QPSK	L	86.832	-34.056	189.800	-36.556	1803.90	-44.771	1923.86	-27.123
		M	24.228	-31.092	717.150	-36.592	1804.80	-43.923	1923.77	-29.055
		H	24.228	-31.321	349.000	-35.029	1819.83	-43.105	1924.57	-29.258
	16QAM	L	23.805	-34.118	199.750	-35.786	1595.10	-44.801	1924.19	-26.307
		M	20.985	-29.017	448.500	-36.675	1821.18	-44.642	1924.91	-29.189
		H	96.279	-32.881	274.375	-35.718	1638.48	-44.324	1924.76	-29.123
	64QAM	L	9.846	-33.947	448.500	-40.818	1804.89	-44.424	1924.00	-25.712
		M	24.510	-29.693	612.675	-36.938	1742.61	-44.169	1924.34	-27.832
		H	121.800	-34.374	1045.500	-35.655	1716.96	-44.110	1923.67	-29.201
	256QAM	L	15.063	-31.801	1140.025	-37.403	1632.00	-44.448	1923.91	-26.705
		M	24.510	-31.834	274.375	-36.985	1764.57	-44.298	1924.29	-29.152
		H	135.195	-32.987	955.950	-35.709	1828.38	-44.501	1924.24	-28.135
1	QPSK	L	41.712	-33.763	463.425	-37.619	1762.68	-43.304	1924.91	-25.205
		M	123.210	-34.470	214.675	-35.636	1751.07	-43.854	1924.34	-27.624
		H	87.537	-32.767	478.350	-35.210	1795.89	-44.199	1924.57	-27.572
	16QAM	L	20.985	-31.900	478.350	-36.873	1777.35	-44.819	1924.76	-25.320
		M	44.250	-35.184	204.725	-35.078	1644.15	-44.190	1924.43	-28.488
		H	96.138	-32.763	403.725	-35.082	1813.89	-43.700	1924.91	-27.496
	64QAM	L	9.846	-33.076	358.950	-41.024	1778.97	-44.104	1924.91	-25.760
		M	58.632	-34.823	458.450	-37.189	1739.73	-43.940	1923.53	-27.550
		H	29.727	-32.763	712.175	-35.453	1800.03	-44.151	1924.86	-28.359
	256QAM	L	23.382	-34.143	179.850	-35.971	1777.71	-43.994	1924.86	-25.687
		M	9.987	-32.017	363.925	-41.550	1817.67	-44.226	1924.48	-27.458
		H	9.987	-30.773	717.150	-39.488	1692.12	-45.025	1924.29	-27.036

Port	Mod.	Ch.	9 kHz ~ 150 kHz		150 kHz ~ 30 MHz		30 MHz ~ Low Edge-100 MHz		Low Edge – 100 MHz ~ Low Edge	
			Freq (kHz)	Emission (dBm)	Freq (kHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
2	QPSK	L	20.985	-36.197	463.425	-38.426	1637.76	-44.156	1925.00	-26.915
		M	21.408	-35.493	632.575	-37.450	1646.31	-44.473	1923.96	-28.838
		H	91.908	-34.532	234.575	-34.932	1588.80	-45.016	1924.95	-29.408
	16QAM	L	75.552	-35.950	269.400	-38.281	1627.14	-43.388	1924.95	-26.119
		M	14.358	-35.502	209.700	-37.711	1827.75	-44.483	1924.95	-28.948
		H	125.184	-33.868	254.475	-35.616	1650.00	-44.462	1924.86	-29.392
	64QAM	L	15.486	-35.862	637.550	-36.528	1829.82	-43.704	1924.91	-24.919
		M	21.408	-34.867	513.175	-37.548	1611.66	-43.459	1924.57	-28.477
		H	47.916	-34.370	602.725	-36.177	1787.43	-43.938	1924.95	-28.779
	256QAM	L	21.126	-29.502	309.200	-38.341	1818.84	-44.557	1924.34	-27.320
		M	145.629	-34.794	259.450	-37.153	1721.73	-44.270	1924.72	-28.790
		H	122.364	-33.927	438.550	-36.306	1591.05	-44.010	1924.86	-28.936
3	QPSK	L	48.198	-35.441	617.650	-37.550	1670.88	-43.895	1924.95	-25.321
		M	21.408	-31.677	408.700	-36.559	1776.81	-43.409	1924.67	-27.180
		H	87.396	-32.612	174.875	-35.594	1624.08	-44.430	1924.91	-28.857
	16QAM	L	11.961	-34.719	538.050	-36.392	1751.97	-43.993	1925.00	-24.661
		M	23.523	-31.430	403.725	-36.411	1735.05	-44.229	1924.10	-27.627
		H	91.344	-34.018	229.600	-34.321	1699.59	-44.287	1924.81	-27.945
	64QAM	L	90.498	-33.937	349.000	-36.950	1627.05	-44.496	1924.29	-25.047
		M	9.564	-34.647	811.675	-36.256	1788.24	-44.136	1924.53	-28.179
		H	21.408	-32.203	174.875	-35.782	1535.97	-44.613	1924.76	-28.108
	256QAM	L	122.505	-34.511	199.750	-37.251	1686.54	-44.361	1924.86	-25.549
		M	74.988	-35.042	513.175	-37.040	1788.51	-45.001	1924.76	-26.833
		H	122.364	-33.218	358.950	-35.217	1647.39	-44.555	1924.81	-28.110

* This test report only contains the worst case plot data for each port and modulation.

Spurious Emissions (Above 1 GHz) of 5 MHz Bandwidth / 1 Carrier

Port	Mod.	Ch.	High Edge ~ High Edge + 100 MHz		High Edge + 100 MHz ~ 10 GHz		10 GHz ~ 26.5 GHz	
			Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
0	QPSK	L	2047.50	-29.314	9934.39	-31.898	25436.58	-26.278
		M	2042.51	-29.264	9954.15	-32.257	25450.60	-26.551
		H	2091.58	-29.113	9945.06	-31.465	25485.66	-26.494
	16QAM	L	2045.98	-28.875	9945.85	-31.713	25471.64	-26.426
		M	2094.34	-29.271	9933.60	-31.872	25601.16	-25.790
		H	2029.55	-29.397	9775.10	-32.067	25469.99	-26.594
	64QAM	L	2080.28	-29.438	9920.95	-32.162	25443.59	-26.232
		M	2073.91	-29.036	9991.30	-31.924	25502.58	-26.600
		H	2064.03	-29.607	9971.94	-31.389	25385.01	-26.818
	256QAM	L	2060.52	-29.398	9955.34	-31.590	25502.16	-26.492
		M	2071.01	-29.126	9947.43	-32.092	25427.09	-26.702
		H	2082.89	-28.599	9970.75	-31.031	25487.73	-26.105
1	QPSK	L	2038.05	-29.374	9923.32	-32.218	25474.53	-26.553
		M	2064.46	-29.337	9980.24	-32.104	25464.63	-26.950
		H	2067.12	-29.301	9932.41	-31.206	25493.09	-26.576
	16QAM	L	2080.80	-29.228	9941.50	-31.977	25443.59	-26.317
		M	2082.08	-28.902	9941.50	-31.015	25447.30	-26.429
		H	2061.28	-28.848	9944.27	-31.910	25478.65	-25.894
	64QAM	L	2022.94	-29.079	9963.24	-30.896	25498.86	-26.735
		M	2059.76	-29.146	9920.16	-31.738	25387.49	-26.772
		H	2026.98	-29.363	9941.90	-31.568	25502.16	-25.960
	256QAM	L	2004.99	-29.495	9963.64	-32.024	25474.53	-26.645
		M	2078.80	-28.705	9973.91	-31.944	25485.66	-26.618
		H	2091.77	-29.230	9944.27	-31.550	25547.13	-26.278

Port	Mod.	Ch.	High Edge ~ High Edge + 100 MHz		High Edge + 100 MHz ~ 10 GHz		10 GHz ~ 26.5 GHz	
			Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)	Freq (MHz)	Emission (dBm)
2	QPSK	L	2043.04	-29.095	9918.58	-31.977	25468.34	-25.629
		M	2029.93	-28.875	9950.99	-32.177	25550.84	-26.186
		H	2093.01	-29.186	9919.76	-31.689	25459.26	-26.637
	16QAM	L	2077.24	-28.756	9984.19	-31.543	25442.35	-26.441
		M	2091.77	-29.403	9973.52	-31.427	25528.15	-25.708
		H	2091.53	-29.178	9936.76	-31.611	25460.09	-26.275
	64QAM	L	2058.76	-29.109	9983.79	-32.111	25500.10	-26.091
		M	2073.86	-28.454	9979.05	-31.983	25479.48	-25.995
		H	2056.00	-29.291	9987.75	-31.969	25592.50	-26.925
	256QAM	L	2078.71	-29.264	9949.01	-31.546	25455.96	-26.183
		M	2046.03	-29.233	9986.56	-31.614	25506.70	-26.852
		H	2064.13	-29.111	9808.30	-31.865	25514.95	-26.468
3	QPSK	L	2053.82	-29.663	9943.48	-32.029	25486.08	-25.955
		M	2011.54	-29.053	9796.05	-32.463	25470.40	-26.056
		H	2040.00	-29.331	9834.39	-31.975	25480.30	-26.427
	16QAM	L	2086.93	-29.050	9952.97	-32.170	25419.66	-26.579
		M	2064.27	-28.802	9998.81	-30.621	25525.26	-26.641
		H	2024.18	-29.046	9975.89	-31.255	25481.95	-26.956
	64QAM	L	2065.55	-29.405	9967.19	-31.691	25480.30	-26.498
		M	2094.05	-29.224	9990.12	-31.776	25486.90	-26.103
		H	2027.84	-29.306	9944.67	-31.799	25472.05	-26.436
	256QAM	L	2077.71	-29.300	9907.12	-31.441	25572.29	-25.573
		M	2027.03	-29.276	9953.36	-31.578	25478.65	-26.447
		H	2079.99	-29.170	9936.36	-31.997	25447.71	-25.868

* This test report only contains the worst case plot data for each port and modulation.