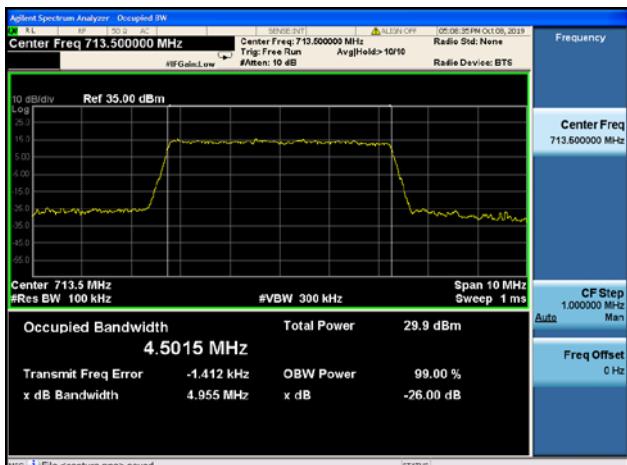




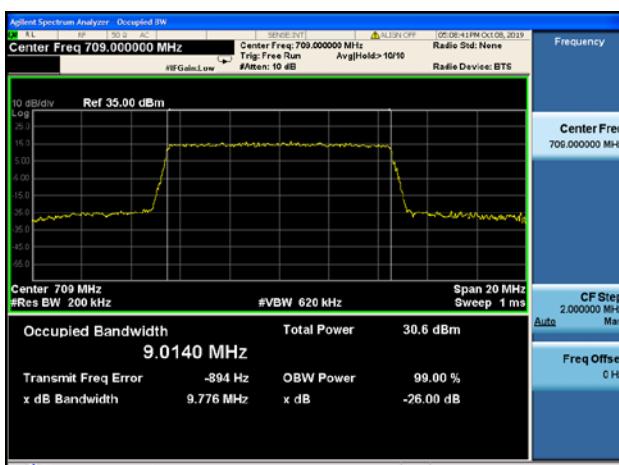
## Band17 / 5MHz / High CH / QPSK



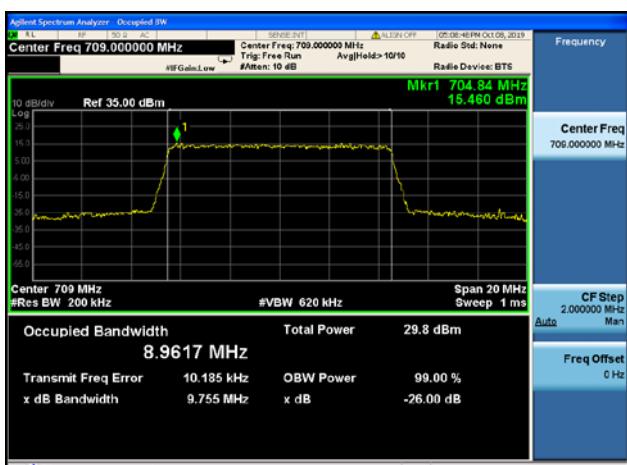
## Band17 / 5MHz / High CH / 16QAM



## Band17 / 10MHz / Low CH / QPSK



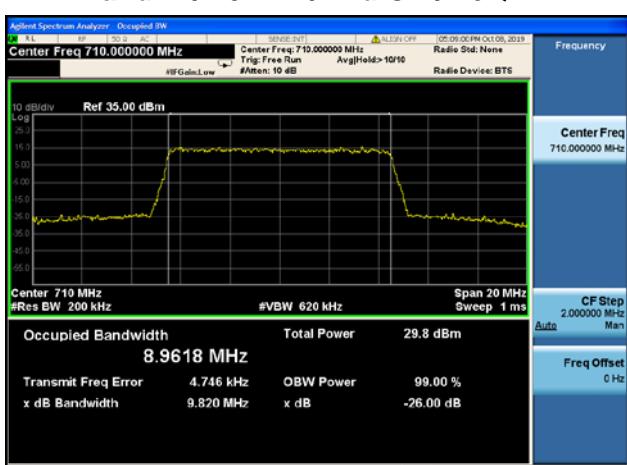
## Band17 / 10MHz / Low CH / 16QAM



## Band17 / 10MHz / Mid CH / QPSK



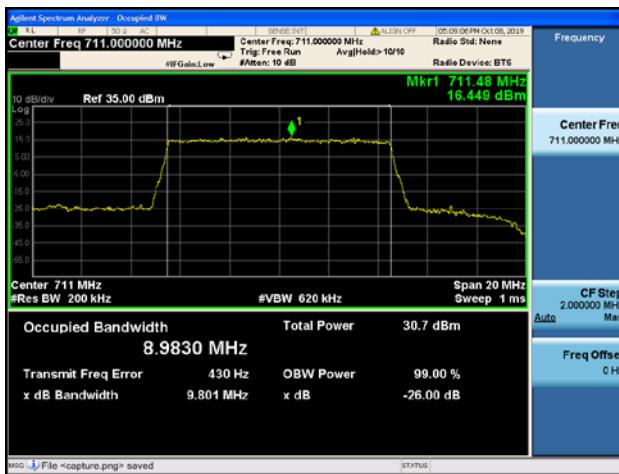
## Band17 / 10MHz / Mid CH / 16QAM





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## Band17 / 10MHz / High CH / QPSK



## Band17 / 10MHz / High CH / 16QAM



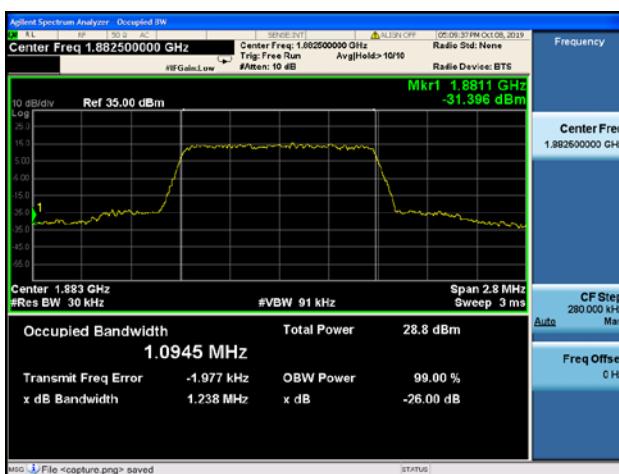
## Band25 / 1.4MHz / Low CH / QPSK



## Band25 / 1.4MHz / Low CH / 16QAM



## Band25 / 1.4MHz / Mid CH / QPSK



## Band25 / 1.4MHz / Mid CH / 16QAM



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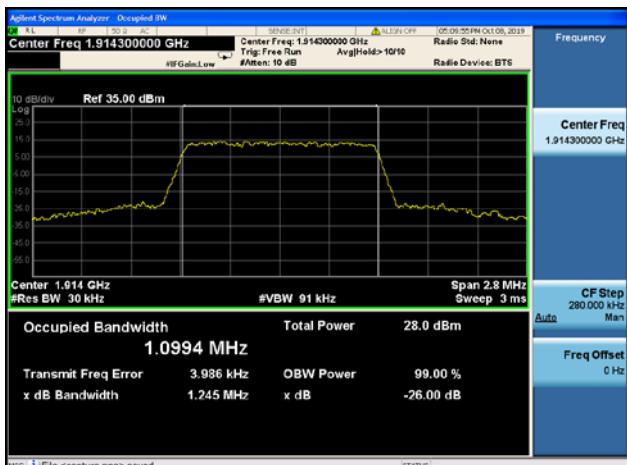


REPORT No. : SZ19100008W02

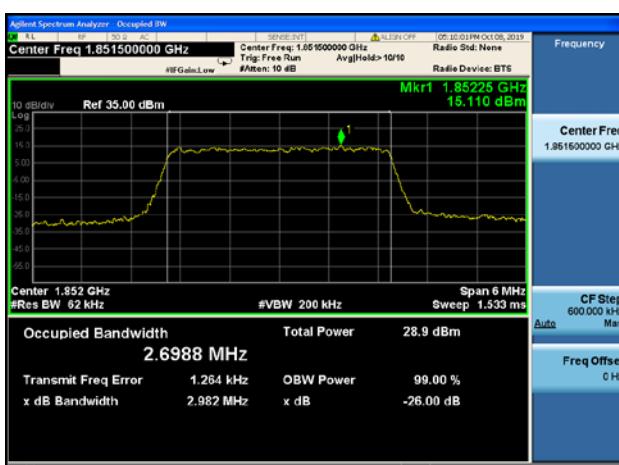
### Band25 / 1.4MHz / High CH / QPSK



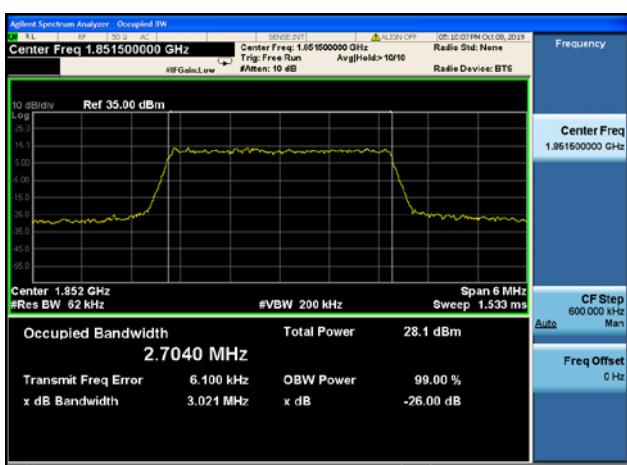
### Band25 / 1.4MHz / High CH / 16QAM



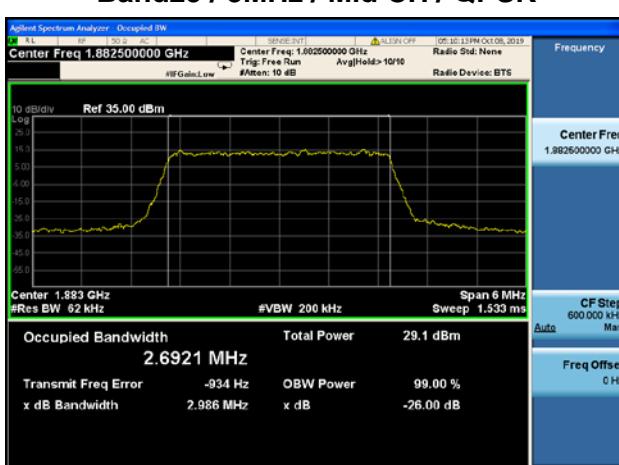
### Band25 / 3MHz / Low CH / QPSK



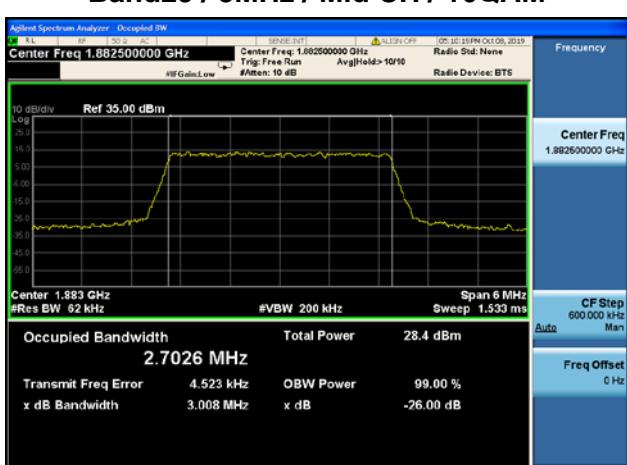
### Band25 / 3MHz / Low CH / 16QAM



### Band25 / 3MHz / Mid CH / QPSK



### Band25 / 3MHz / Mid CH / 16QAM

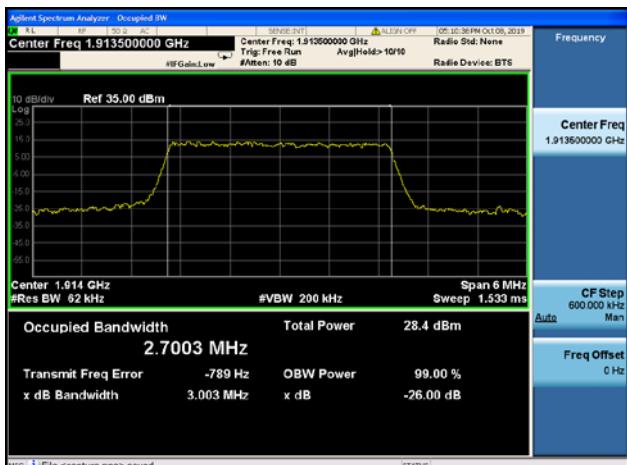




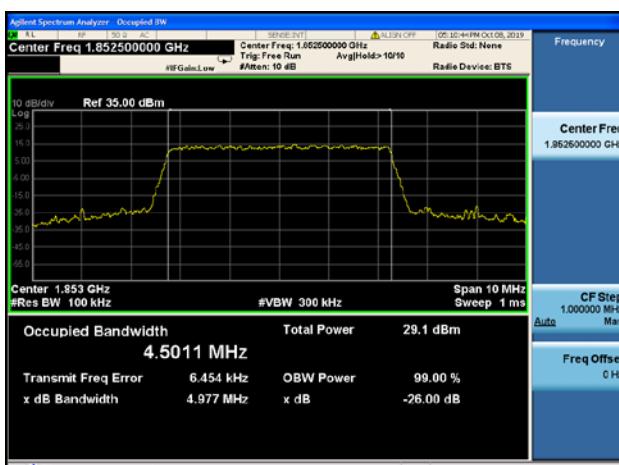
## Band25 / 3MHz / High CH / QPSK



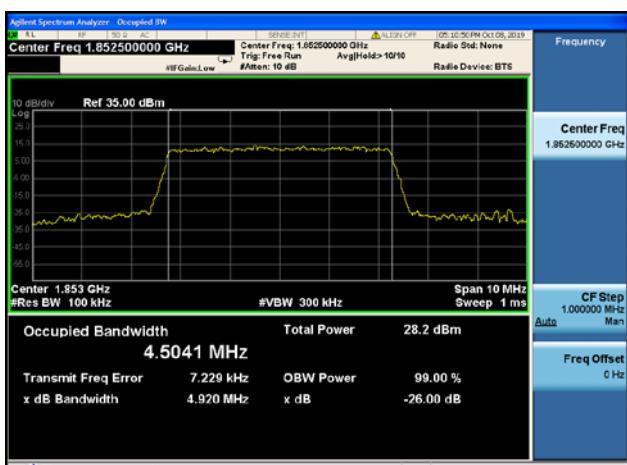
## Band25 / 3MHz / High CH / 16QAM



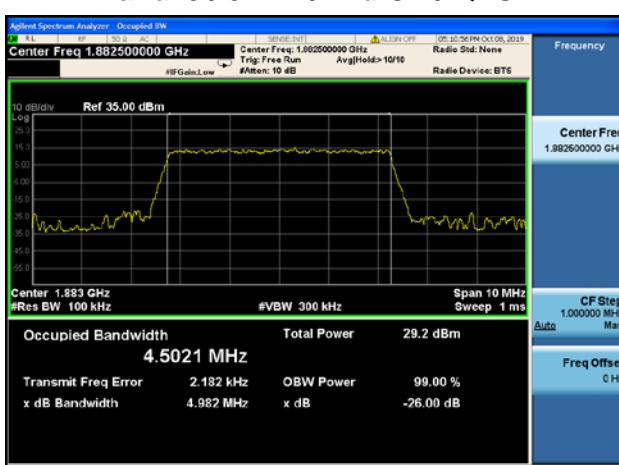
## Band25 / 5MHz / Low CH / QPSK



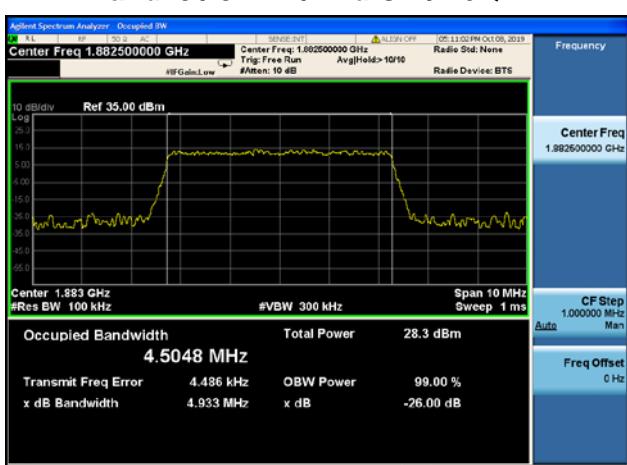
## Band25 / 5MHz / Low CH / 16QAM



## Band25 / 5MHz / Mid CH / QPSK



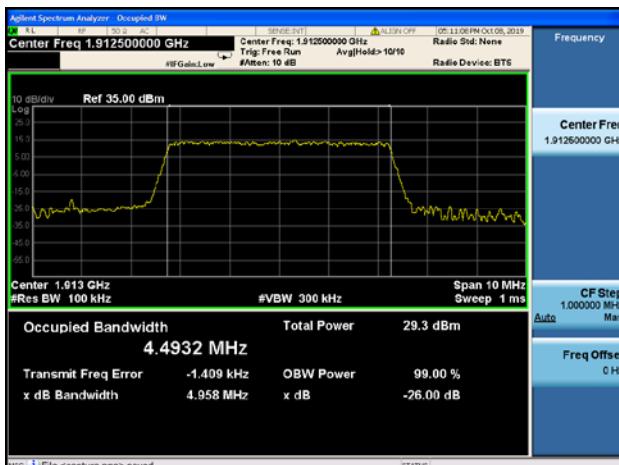
## Band25 / 5MHz / Mid CH / 16QAM





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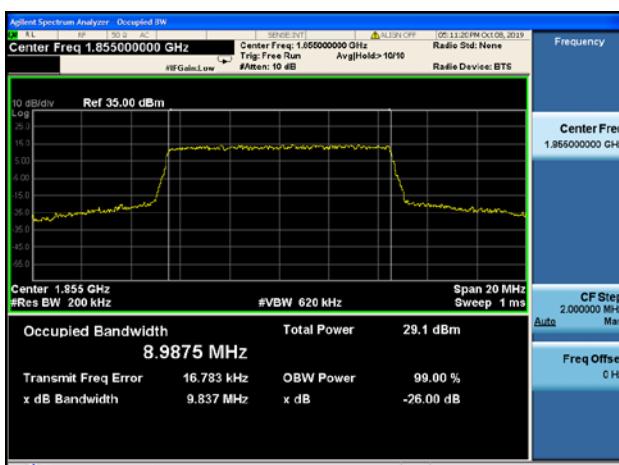
### Band25 / 5MHz / High CH / QPSK



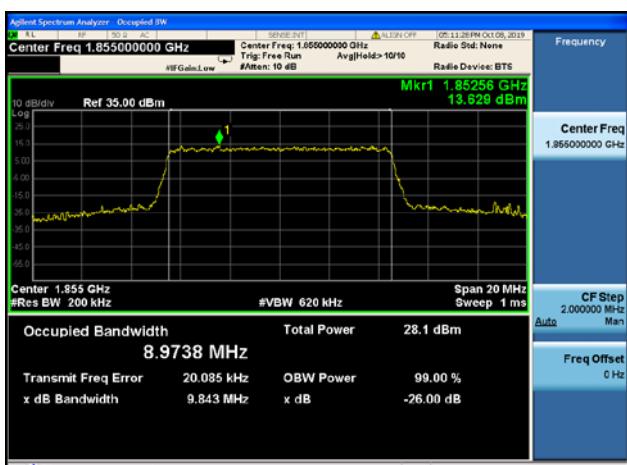
### Band25 / 5MHz / High CH / 16QAM



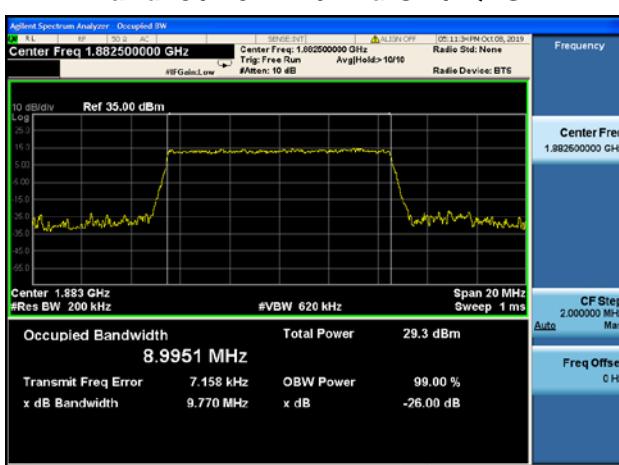
### Band25 / 10MHz / Low CH / QPSK



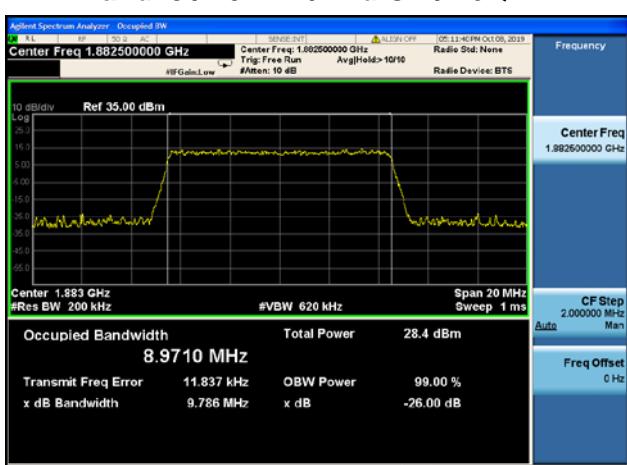
### Band25 / 10MHz / Low CH / 16QAM



### Band25 / 10MHz / Mid CH / QPSK

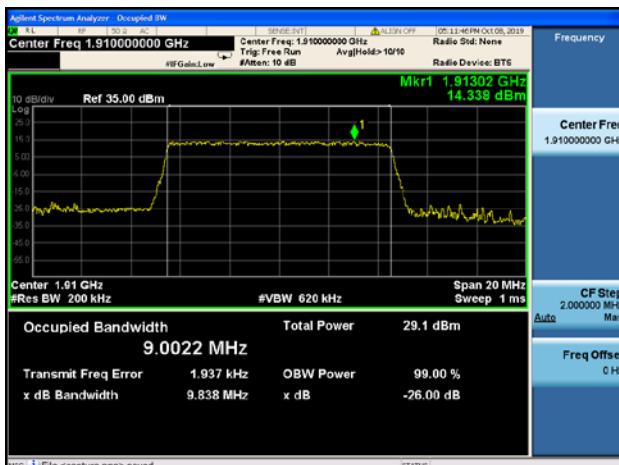


### Band25 / 10MHz / Mid CH / 16QAM





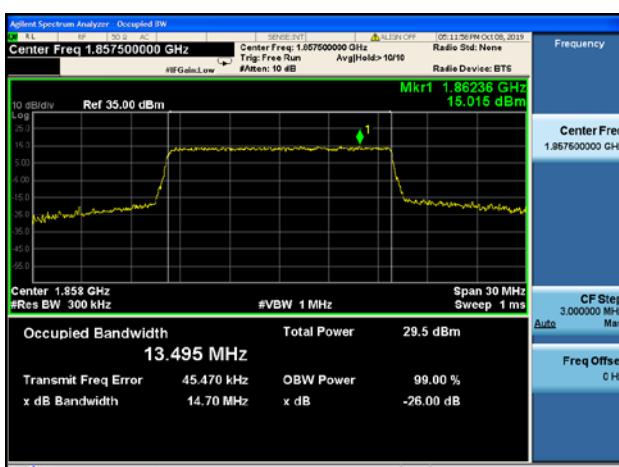
## Band25 / 10MHz / High CH / QPSK



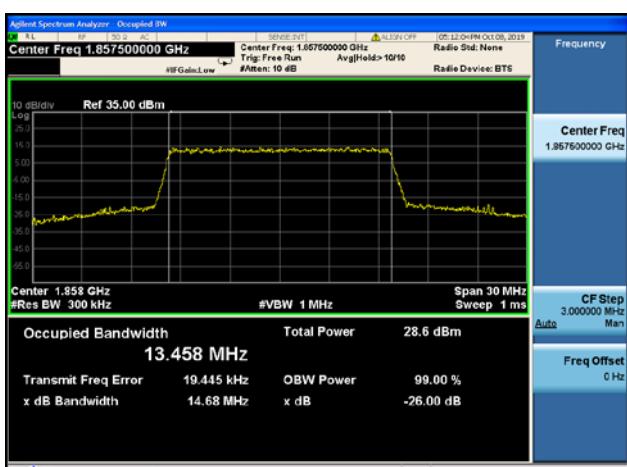
## Band25 / 10MHz / High CH / 16QAM



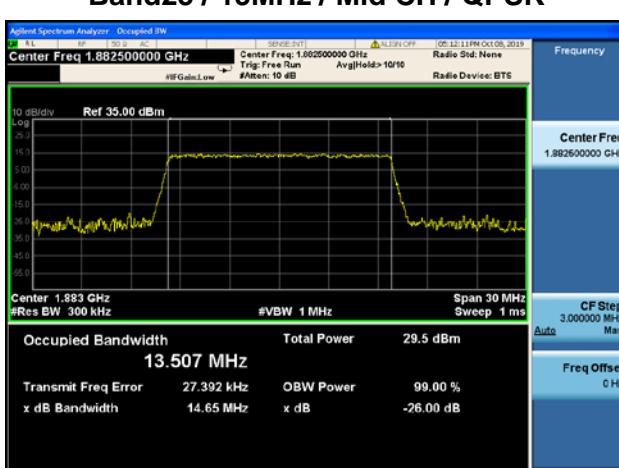
## Band25 / 15MHz / Low CH / QPSK



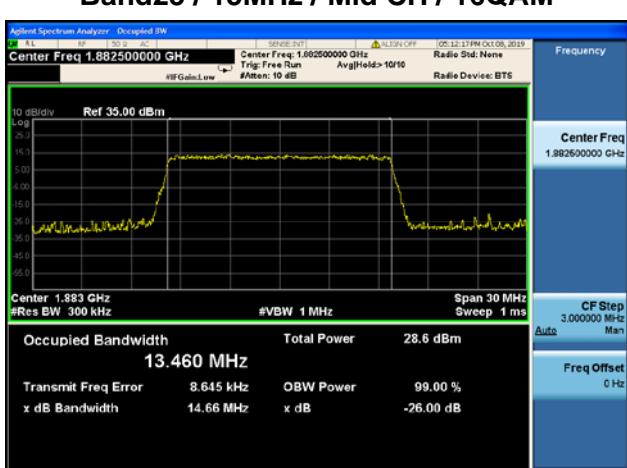
## Band25 / 15MHz / Low CH / 16QAM



## Band25 / 15MHz / Mid CH / QPSK



## Band25 / 15MHz / Mid CH / 16QAM



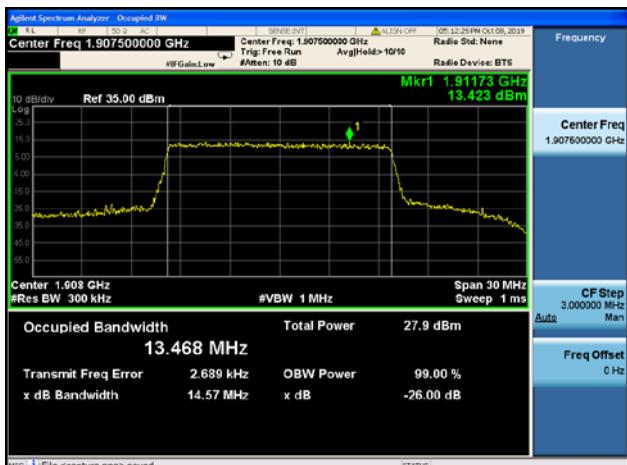


REPORT No. : SZ19100008W02

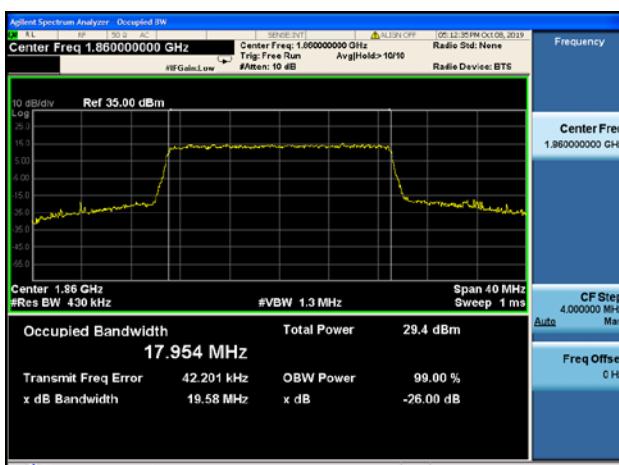
## Band25 / 15MHz / High CH / QPSK



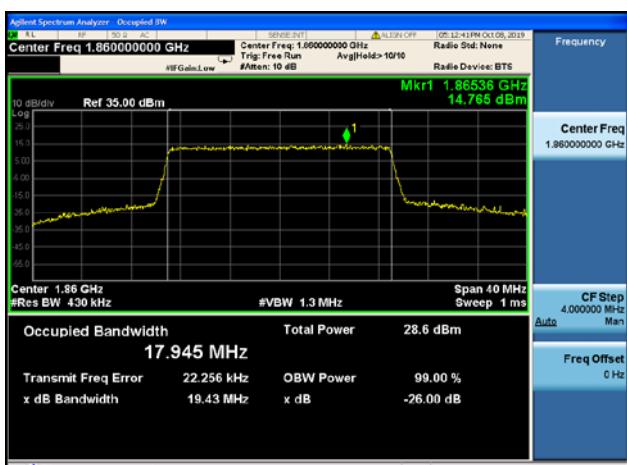
## Band25 / 15MHz / High CH / 16QAM



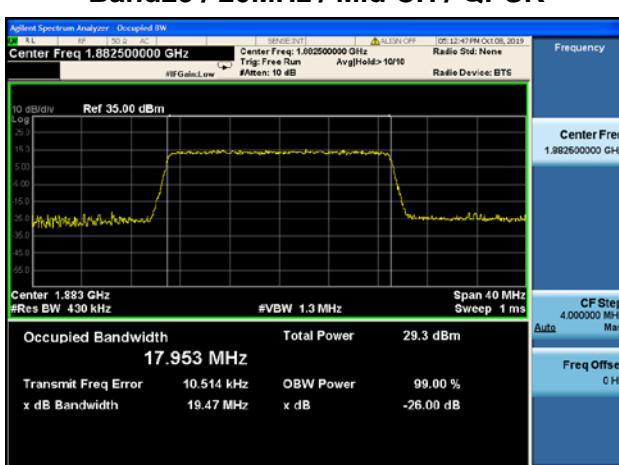
## Band25 / 20MHz / Low CH / QPSK



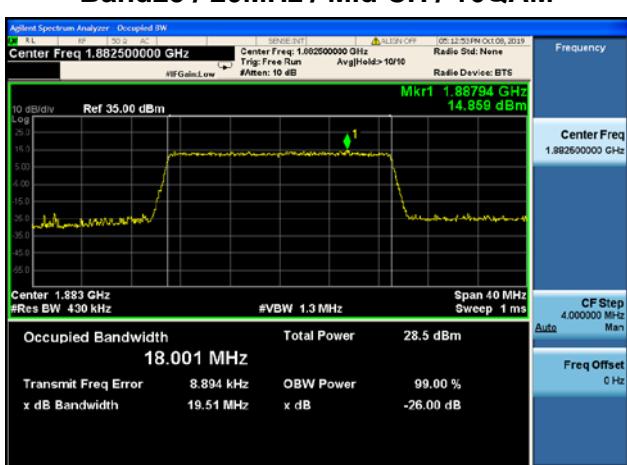
## Band25 / 20MHz / Low CH / 16QAM



## Band25 / 20MHz / Mid CH / QPSK

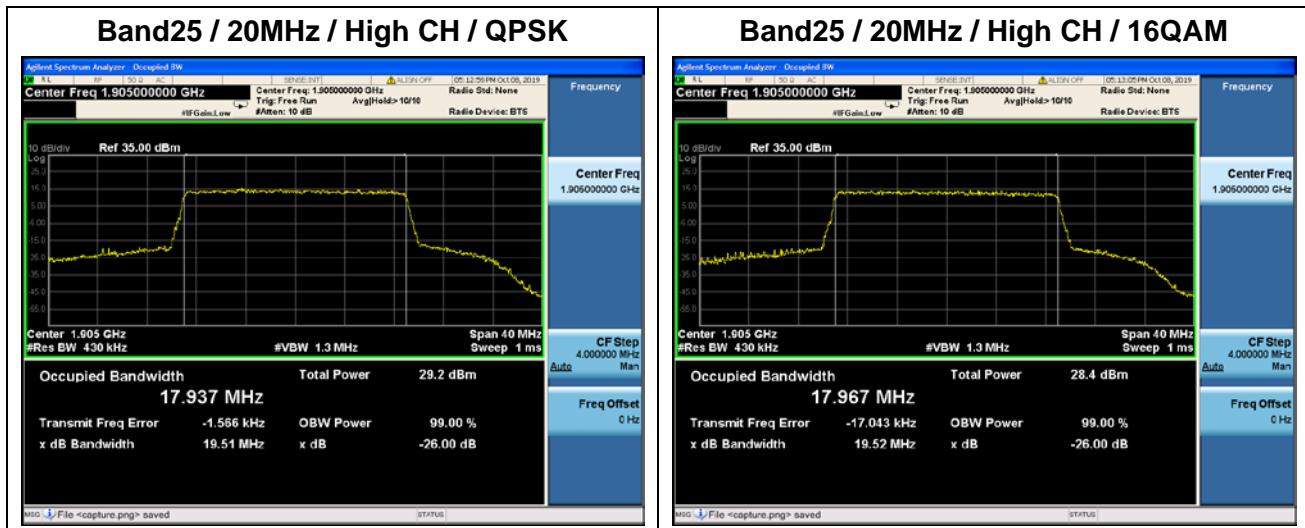


## Band25 / 20MHz / Mid CH / 16QAM



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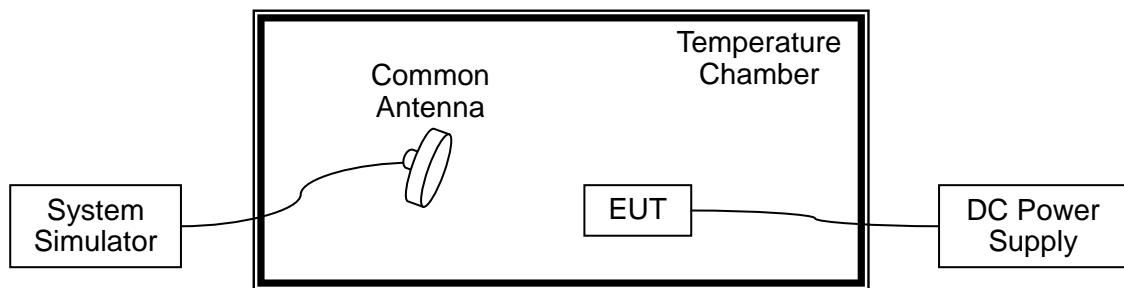
## 2.3. Frequency Stability

### 2.3.1. Requirement

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

- (a) The temperature is varied from -10°C to +45°C at intervals of not more than 10°C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

### 2.3.2. Test Description



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

### 2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

### 2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.85VDC, 4.2VDC and 3.6VDC, which are specified by the applicant; the normal temperature here used is 20°C.



REPORT No. : SZ19100008W02

**LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz**  
**Limit =Within Authorized Band**

Voltage(%)	Power(VDC )	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20 (Ref)	53	0.028	PASS
100		-10	-58	-0.031	
100		0	42	0.022	
100		+10	-16	-0.009	
100		+20	-47	-0.025	
100		+30	25	0.013	
100		+40	47	0.025	
100		+50	13	0.007	
100		+55	26	0.014	
115		+20	-15	-0.008	
85	4.20	+20	53	0.028	
85	3.60	+20	53	0.028	

**LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz**  
**Limit =Within Authorized Band**

Voltage(%)	Power(VDC )	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20 (Ref)	53	0.031	PASS
100		-10	-57	-0.033	
100		0	42	0.024	
100		+10	-43	-0.025	
100		+20	-47	-0.027	
100		+30	31	0.018	
100		+40	47	0.027	
100		+50	53	0.031	
100		+55	26	0.015	
115		+20	-15	-0.009	
85	4.2	+20	53	0.031	
85	3.6	+20	53	0.031	



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**LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz**  
**Limit=±2.5ppm**

Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20 (Ref)	52	0.025	PASS
100		-10	-57	-0.027	
100		0	38	0.018	
100		+10	-43	-0.021	
100		+20	-37	-0.018	
100		+30	73	0.035	
100		+40	47	0.022	
100		+50	27	0.013	
100		+55	26	0.012	
115		+20	-42	-0.020	
85	3.6	+20	52	0.025	

**LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz**  
**Limit =Within Authorized Band**

Voltage(%)	Power(VDC )	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20 (Ref)	26	0.015	PASS
100		-10	-66	-0.037	
100		0	45	0.025	
100		+10	-27	-0.015	
100		+20	-27	-0.015	
100		+30	25	0.014	
100		+40	56	0.032	
100		+50	17	0.010	
100		+55	37	0.021	
115		+20	-25	-0.014	
85	3.6	+20	26	0.015	



LTE Band 13, QPSK, Channel 23095, Frequency 707.5MHz Limit =Within Authorized Band					
Voltage(%)	Power(VDC )	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20 (Ref)	26	0.010	PASS
100		-10	-42	-0.017	
100		0	45	0.018	
100		+10	-27	-0.011	
100		+20	-47	-0.019	
100		+30	25	0.010	
100		+40	26	0.010	
100		+50	17	0.007	
		+55	36	0.014	
115		+20	-25	-0.010	
85	4.2	+20	26	0.010	
85	3.6	+20	26	0.010	

LTE Band 17, QPSK, Channel 23790, Frequency 710MHz Limit =Within Authorized Band					
Voltage(%)	Power(VDC )	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20 (Ref)	51	0.029	PASS
100		-10	-53	-0.030	
100		0	42	0.024	
100		+10	-7	-0.004	
100		+20	-39	-0.022	
100		+30	27	0.015	
100		+40	37	0.021	
100		+50	13	0.007	
100		+55	36	0.020	
115		+20	-55	-0.031	
85	4.2	+20	51	0.029	
85	3.6	+20	51	0.029	



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LTE Band 25, QPSK, Channel 23095, Frequency 707.5MHz					
Limit =Within Authorized Band					
Voltage(%)	Power(VDC )	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20 (Ref)	52	0.025	PASS
100		-10	-57	-0.027	
100		0	38	0.018	
100		+10	-43	-0.021	
100		+20	-37	-0.018	
100		+30	73	0.035	
100		+40	47	0.022	
100		+50	27	0.013	
100		+55	26	0.012	
115		+20	-42	-0.020	
85	4.2	+20	52	0.025	
85	3.6	+20	52	0.025	

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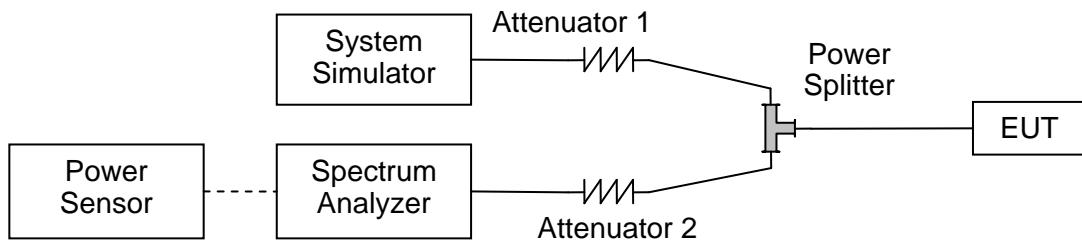
## 2.4. Peak to Average Radio

### 2.4.1. Requirement

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

### 2.4.2. Test Description

#### A. Test Set:



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

### 2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

### 2.4.4. Test Result

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



LTE Band 2					
BW(MHz)	Channel Level	Modulation	Peak to Average Radio(dB)	Limit (dB)	Verdict
1.4	Low	QPSK	5.33	<=13	PASS
1.4	Low	16QAM	6.06	<=13	PASS
1.4	Mid	QPSK	5.39	<=13	PASS
1.4	Mid	16QAM	5.81	<=13	PASS
1.4	High	QPSK	5.36	<=13	PASS
1.4	High	16QAM	5.91	<=13	PASS
3	Low	QPSK	5.2	<=13	PASS
3	Low	16QAM	5.98	<=13	PASS
3	Mid	QPSK	5.22	<=13	PASS
3	Mid	16QAM	5.83	<=13	PASS
3	High	QPSK	5.19	<=13	PASS
3	High	16QAM	5.91	<=13	PASS
5	Low	QPSK	5.22	<=13	PASS
5	Low	16QAM	5.9	<=13	PASS
5	Mid	QPSK	5.22	<=13	PASS
5	Mid	16QAM	5.84	<=13	PASS
5	High	QPSK	5.23	<=13	PASS
5	High	16QAM	5.89	<=13	PASS
10	Low	QPSK	5.21	<=13	PASS
10	Low	16QAM	5.96	<=13	PASS
10	Mid	QPSK	5.27	<=13	PASS
10	Mid	16QAM	5.89	<=13	PASS
10	High	QPSK	5.43	<=13	PASS
10	High	16QAM	6.0	<=13	PASS
15	Low	QPSK	5.13	<=13	PASS
15	Low	16QAM	5.98	<=13	PASS
15	Mid	QPSK	5.22	<=13	PASS
15	Mid	16QAM	5.83	<=13	PASS
15	High	QPSK	5.32	<=13	PASS
15	High	16QAM	6.04	<=13	PASS
20	Low	QPSK	5.29	<=13	PASS
20	Low	16QAM	6.08	<=13	PASS
20	Mid	QPSK	5.17	<=13	PASS
20	Mid	16QAM	5.91	<=13	PASS



20	High	QPSK	5.28	<=13	PASS
20	High	16QAM	6.14	<=13	PASS
<b>LTE Band 4</b>					
BW(MHz)	Channel Level	Modulation	Peak to Average Radio(dB)	Limit (dB)	Verdict
1.4	Low	QPSK	5.4	<=13	PASS
1.4	Low	16QAM	6.11	<=13	PASS
1.4	Mid	QPSK	5.43	<=13	PASS
1.4	Mid	16QAM	5.94	<=13	PASS
1.4	High	QPSK	5.57	<=13	PASS
1.4	High	16QAM	6.06	<=13	PASS
3	Low	QPSK	5.35	<=13	PASS
3	Low	16QAM	6.15	<=13	PASS
3	Mid	QPSK	5.17	<=13	PASS
3	Mid	16QAM	6.01	<=13	PASS
3	High	QPSK	5.19	<=13	PASS
3	High	16QAM	6.0	<=13	PASS
5	Low	QPSK	5.39	<=13	PASS
5	Low	16QAM	5.99	<=13	PASS
5	Mid	QPSK	5.29	<=13	PASS
5	Mid	16QAM	5.93	<=13	PASS
5	High	QPSK	5.3	<=13	PASS
5	High	16QAM	5.92	<=13	PASS
10	Low	QPSK	5.28	<=13	PASS
10	Low	16QAM	6.02	<=13	PASS
10	Mid	QPSK	5.35	<=13	PASS
10	Mid	16QAM	5.96	<=13	PASS
10	High	QPSK	5.31	<=13	PASS
10	High	16QAM	5.99	<=13	PASS
15	Low	QPSK	5.25	<=13	PASS
15	Low	16QAM	5.98	<=13	PASS
15	Mid	QPSK	5.22	<=13	PASS
15	Mid	16QAM	5.9	<=13	PASS
15	High	QPSK	5.25	<=13	PASS
15	High	16QAM	5.95	<=13	PASS
20	Low	QPSK	5.29	<=13	PASS
20	Low	16QAM	6.0	<=13	PASS



20	Mid	QPSK	5.21	<=13	PASS
20	Mid	16QAM	5.95	<=13	PASS
20	High	QPSK	5.18	<=13	PASS
20	High	16QAM	5.92	<=13	PASS

**LTE Band 5**

BW(MHz)	Channel Level	Modulation	Peak to Average Radio(dB)	Limit (dB)	Verdict
1.4	Low	QPSK	5.65	<=13	PASS
1.4	Low	16QAM	6.14	<=13	PASS
1.4	Mid	QPSK	5.62	<=13	PASS
1.4	Mid	16QAM	6.09	<=13	PASS
1.4	High	QPSK	5.49	<=13	PASS
1.4	High	16QAM	6.02	<=13	PASS
3	Low	QPSK	5.28	<=13	PASS
3	Low	16QAM	6.1	<=13	PASS
3	Mid	QPSK	5.3	<=13	PASS
3	Mid	16QAM	6.09	<=13	PASS
3	High	QPSK	5.23	<=13	PASS
3	High	16QAM	5.99	<=13	PASS
5	Low	QPSK	5.19	<=13	PASS
5	Low	16QAM	5.98	<=13	PASS
5	Mid	QPSK	5.38	<=13	PASS
5	Mid	16QAM	6.03	<=13	PASS
5	High	QPSK	5.17	<=13	PASS
5	High	16QAM	5.96	<=13	PASS
10	Low	QPSK	5.23	<=13	PASS
10	Low	16QAM	6.01	<=13	PASS
10	Mid	QPSK	5.33	<=13	PASS
10	Mid	16QAM	6.0	<=13	PASS
10	High	QPSK	5.35	<=13	PASS
10	High	16QAM	6.05	<=13	PASS



LTE Band 12					
BW(MHz)	Channel Level	Modulation	Peak to Average Radio(dB)	Limit (dB)	Verdict
1.4	Low	QPSK	5.56	<=13	PASS
1.4	Low	16QAM	6.03	<=13	PASS
1.4	Mid	QPSK	5.48	<=13	PASS
1.4	Mid	16QAM	5.97	<=13	PASS
1.4	High	QPSK	5.46	<=13	PASS
1.4	High	16QAM	5.97	<=13	PASS
3	Low	QPSK	5.3	<=13	PASS
3	Low	16QAM	6.03	<=13	PASS
3	Mid	QPSK	5.25	<=13	PASS
3	Mid	16QAM	6.0	<=13	PASS
3	High	QPSK	5.27	<=13	PASS
3	High	16QAM	6.01	<=13	PASS
5	Low	QPSK	5.37	<=13	PASS
5	Low	16QAM	5.92	<=13	PASS
5	Mid	QPSK	5.32	<=13	PASS
5	Mid	16QAM	5.92	<=13	PASS
5	High	QPSK	5.38	<=13	PASS
5	High	16QAM	5.98	<=13	PASS
10	Low	QPSK	5.36	<=13	PASS
10	Low	16QAM	5.95	<=13	PASS
10	Mid	QPSK	5.36	<=13	PASS
10	Mid	16QAM	5.97	<=13	PASS
10	High	QPSK	5.42	<=13	PASS
10	High	16QAM	5.99	<=13	PASS



LTE Band 13					
BW(MHz)	Channel Level	Modulation	Peak to Average Radio(dB)	Limit (dB)	Verdict
5	Low	QPSK	4.9	<=13	PASS
5	Low	16QAM	5.67	<=13	PASS
5	Mid	QPSK	4.8	<=13	PASS
5	Mid	16QAM	5.58	<=13	PASS
5	High	QPSK	4.87	<=13	PASS
5	High	16QAM	5.71	<=13	PASS
10	Mid	QPSK	4.9	<=13	PASS
10	Mid	16QAM	5.71	<=13	PASS

LTE Band 17					
BW(MHz)	Channel Level	Modulation	Peak to Average Radio(dB)	Limit (dB)	Verdict
5	Low	QPSK	5.36	<=13	PASS
5	Low	16QAM	5.96	<=13	PASS
5	Mid	QPSK	5.39	<=13	PASS
5	Mid	16QAM	5.98	<=13	PASS
5	High	QPSK	5.42	<=13	PASS
5	High	16QAM	5.98	<=13	PASS
10	Low	QPSK	5.4	<=13	PASS
10	Low	16QAM	5.98	<=13	PASS
10	Mid	QPSK	5.42	<=13	PASS
10	Mid	16QAM	6.0	<=13	PASS
10	High	QPSK	5.41	<=13	PASS
10	High	16QAM	6.0	<=13	PASS



LTE Band 25					
BW(MHz)	Channel Level	Modulation	Peak to Average Radio(dB)	Limit (dB)	Verdict
1.4	Low	QPSK	5.5	<=13	PASS
1.4	Low	16QAM	6.1	<=13	PASS
1.4	Mid	QPSK	5.45	<=13	PASS
1.4	Mid	16QAM	5.96	<=13	PASS
1.4	High	QPSK	5.38	<=13	PASS
1.4	High	16QAM	5.97	<=13	PASS
3	Low	QPSK	5.31	<=13	PASS
3	Low	16QAM	6.04	<=13	PASS
3	Mid	QPSK	5.16	<=13	PASS
3	Mid	16QAM	5.93	<=13	PASS
3	High	QPSK	5.24	<=13	PASS
3	High	16QAM	5.96	<=13	PASS
5	Low	QPSK	5.37	<=13	PASS
5	Low	16QAM	5.98	<=13	PASS
5	Mid	QPSK	5.3	<=13	PASS
5	Mid	16QAM	5.91	<=13	PASS
5	High	QPSK	5.29	<=13	PASS
5	High	16QAM	5.94	<=13	PASS
10	Low	QPSK	5.44	<=13	PASS
10	Low	16QAM	5.99	<=13	PASS
10	Mid	QPSK	5.34	<=13	PASS
10	Mid	16QAM	5.93	<=13	PASS
10	High	QPSK	5.4	<=13	PASS
10	High	16QAM	6.01	<=13	PASS
15	Low	QPSK	5.36	<=13	PASS
15	Low	16QAM	6.06	<=13	PASS
15	Mid	QPSK	5.27	<=13	PASS
15	Mid	16QAM	5.93	<=13	PASS
15	High	QPSK	5.24	<=13	PASS
15	High	16QAM	5.95	<=13	PASS



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20	Low	QPSK	5.35	<=13	PASS
20	Low	16QAM	6.09	<=13	PASS
20	Mid	QPSK	5.22	<=13	PASS
20	Mid	16QAM	5.97	<=13	PASS
20	High	QPSK	5.3	<=13	PASS
20	High	16QAM	6.04	<=13	PASS

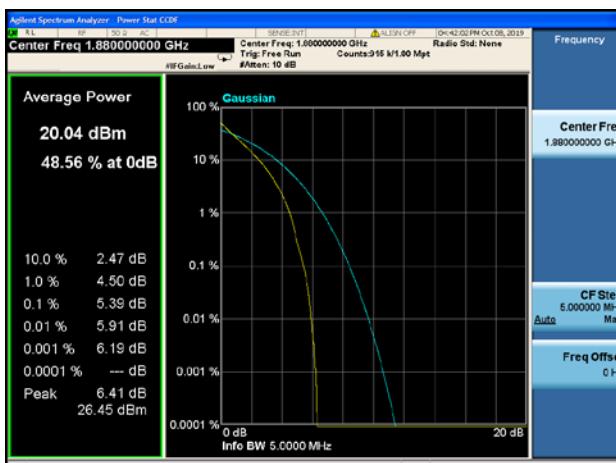
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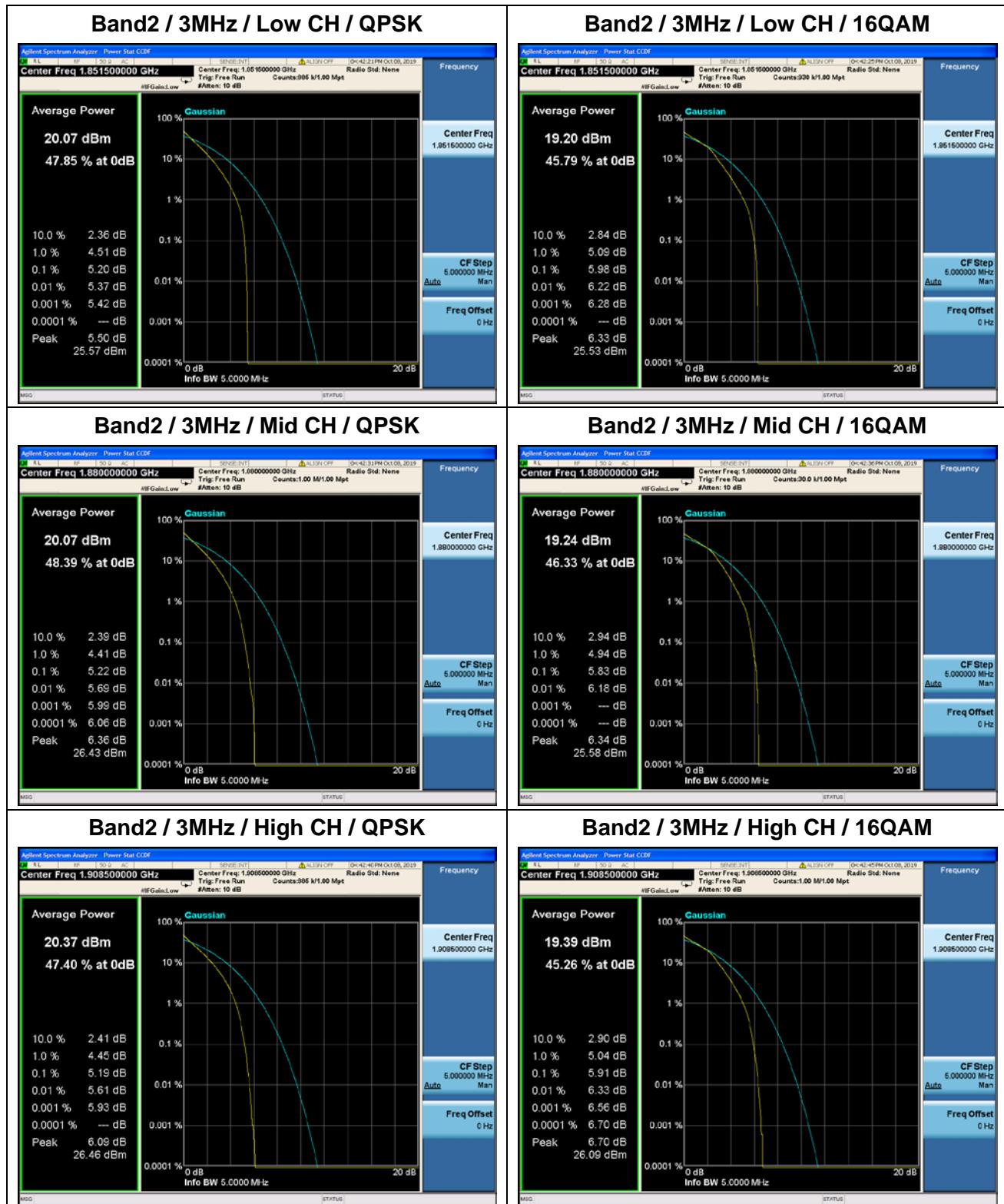
**Band2 / 1.4MHz / Low CH / QPSK**

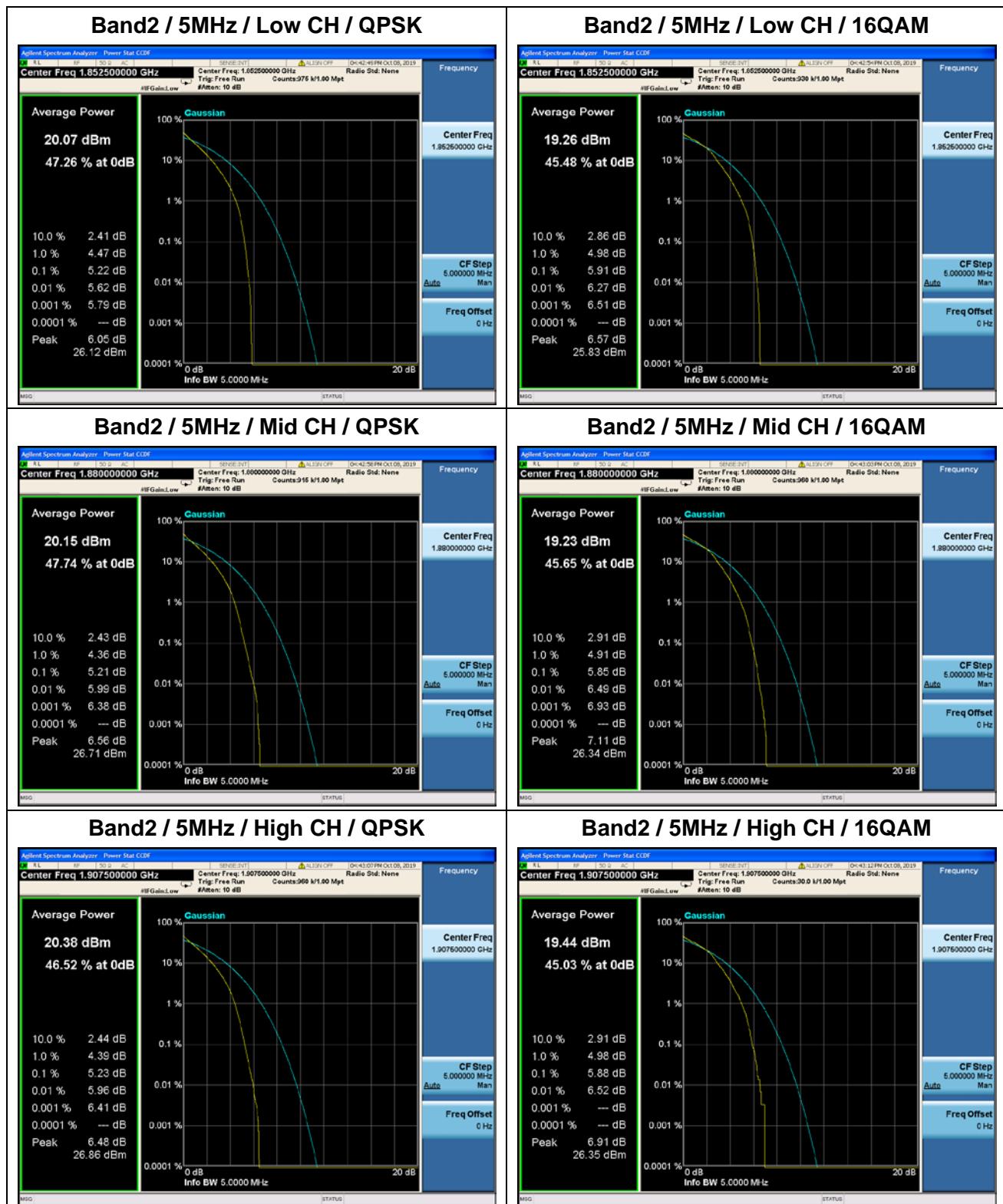
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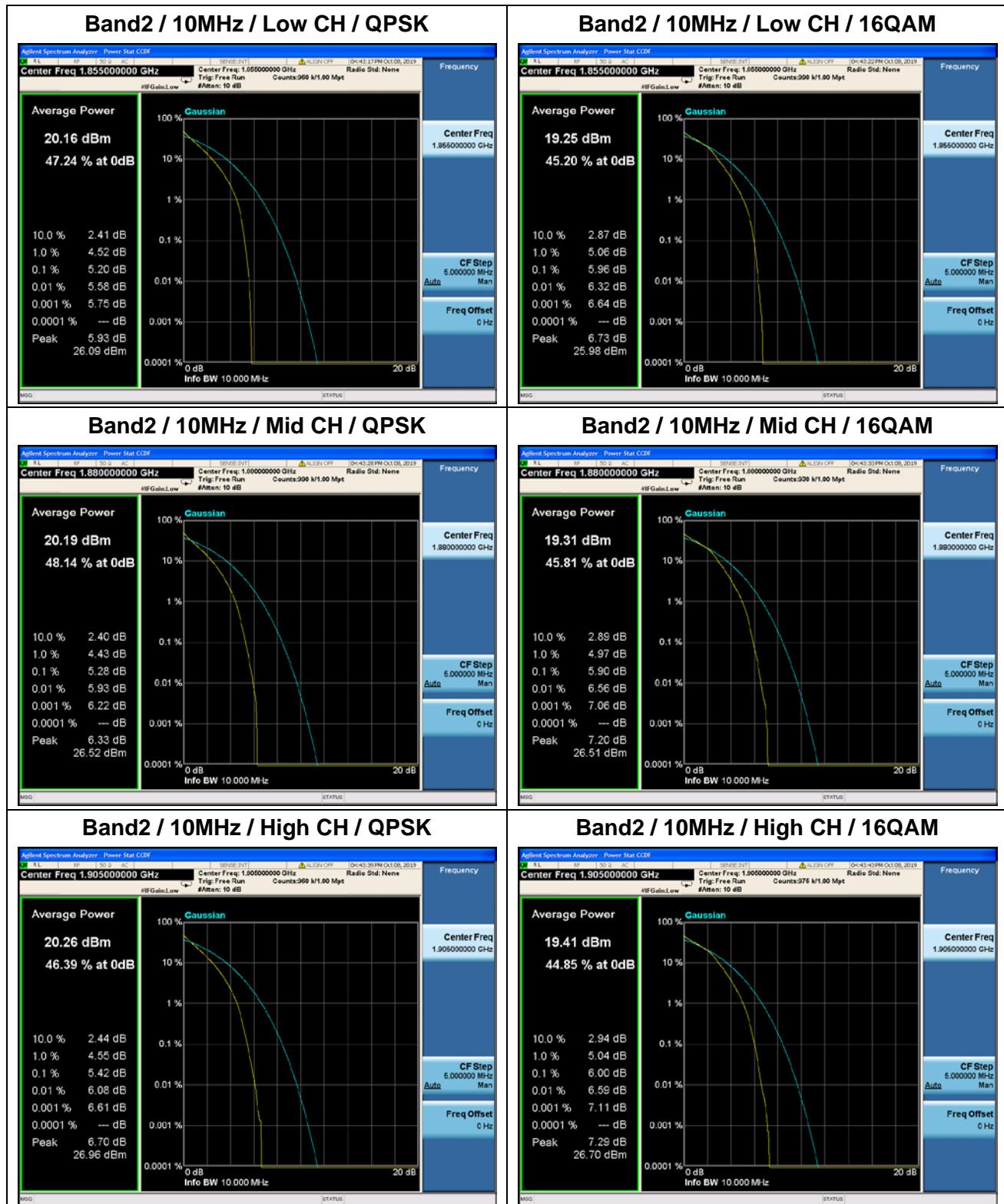
**Band2 / 1.4MHz / Mid CH / QPSK**

**Band2 / 1.4MHz / Mid CH / 16QAM**

**Band2 / 1.4MHz / High CH / QPSK**

**Band2 / 1.4MHz / High CH / 16QAM**



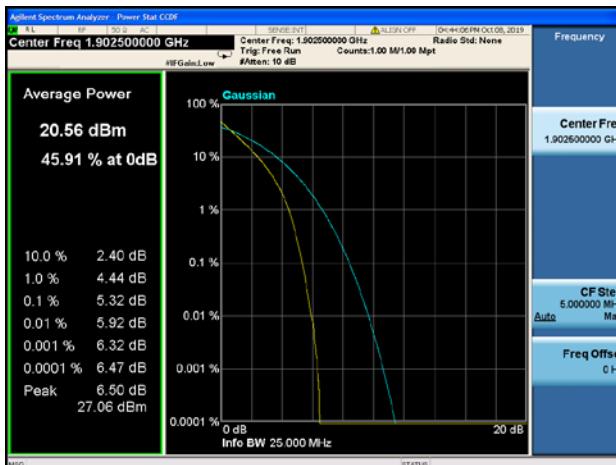


**Band2 / 15MHz / Low CH / QPSK**

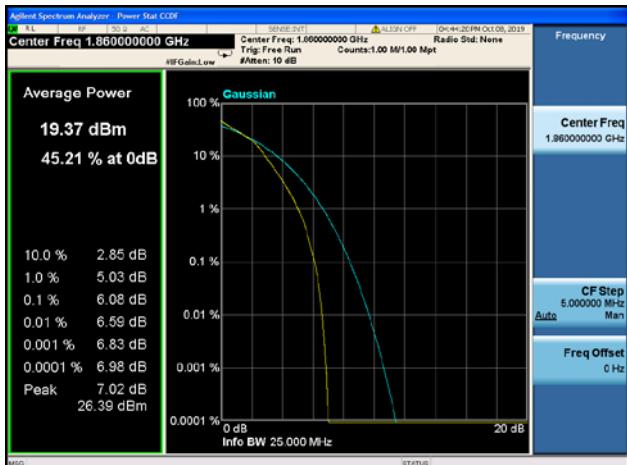
**Band2 / 15MHz / Low CH / 16QAM**

**Band2 / 15MHz / Mid CH / QPSK**

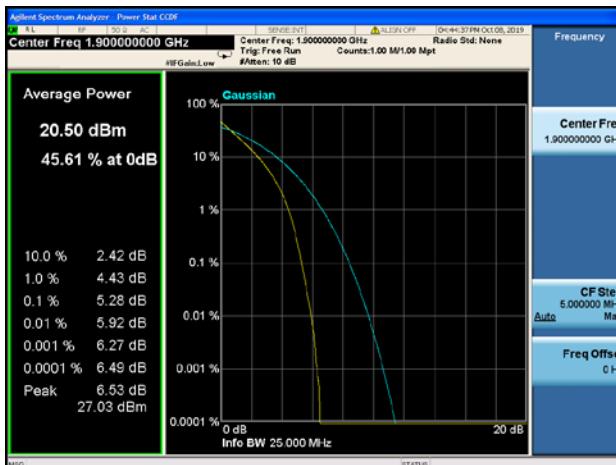
**Band2 / 15MHz / Mid CH / 16QAM**

**Band2 / 15MHz / High CH / QPSK**

**Band2 / 15MHz / High CH / 16QAM**


**Band2 / 20MHz / Low CH / QPSK**

**Band2 / 20MHz / Low CH / 16QAM**

**Band2 / 20MHz / Mid CH / QPSK**

**Band2 / 20MHz / Mid CH / 16QAM**

**Band2 / 20MHz / High CH / QPSK**

**Band2 / 20MHz / High CH / 16QAM**
