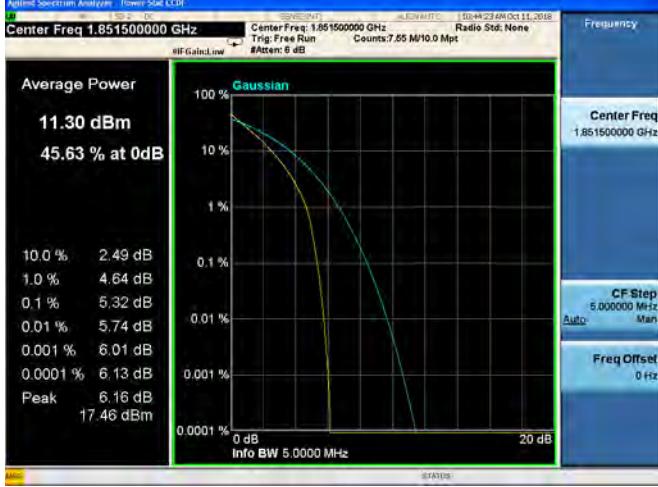
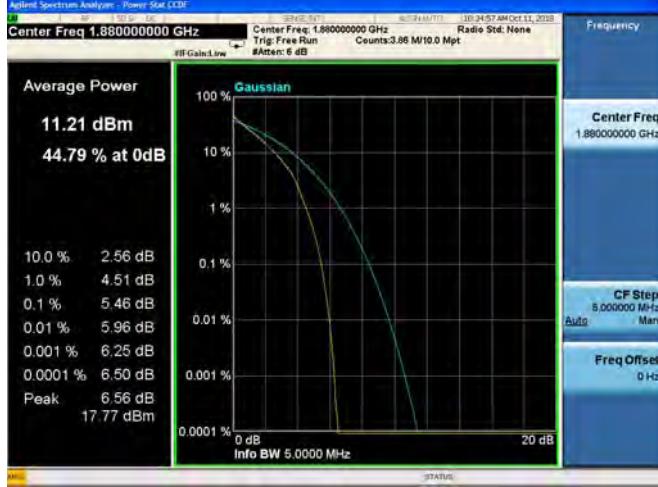
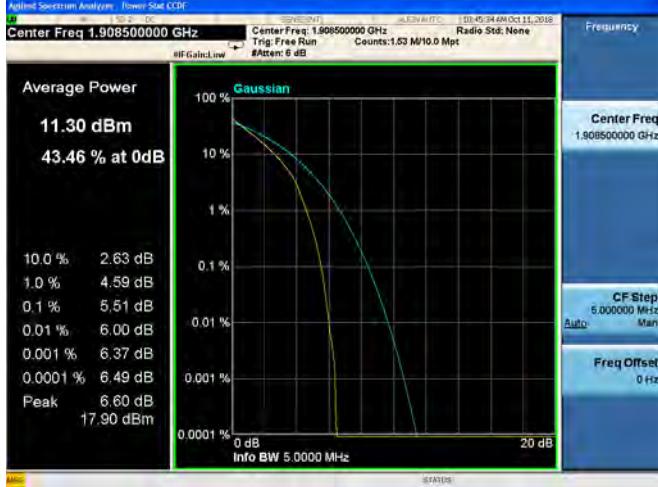
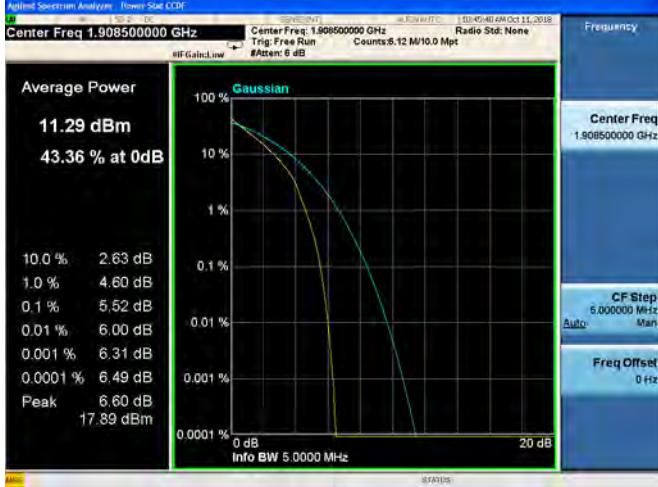
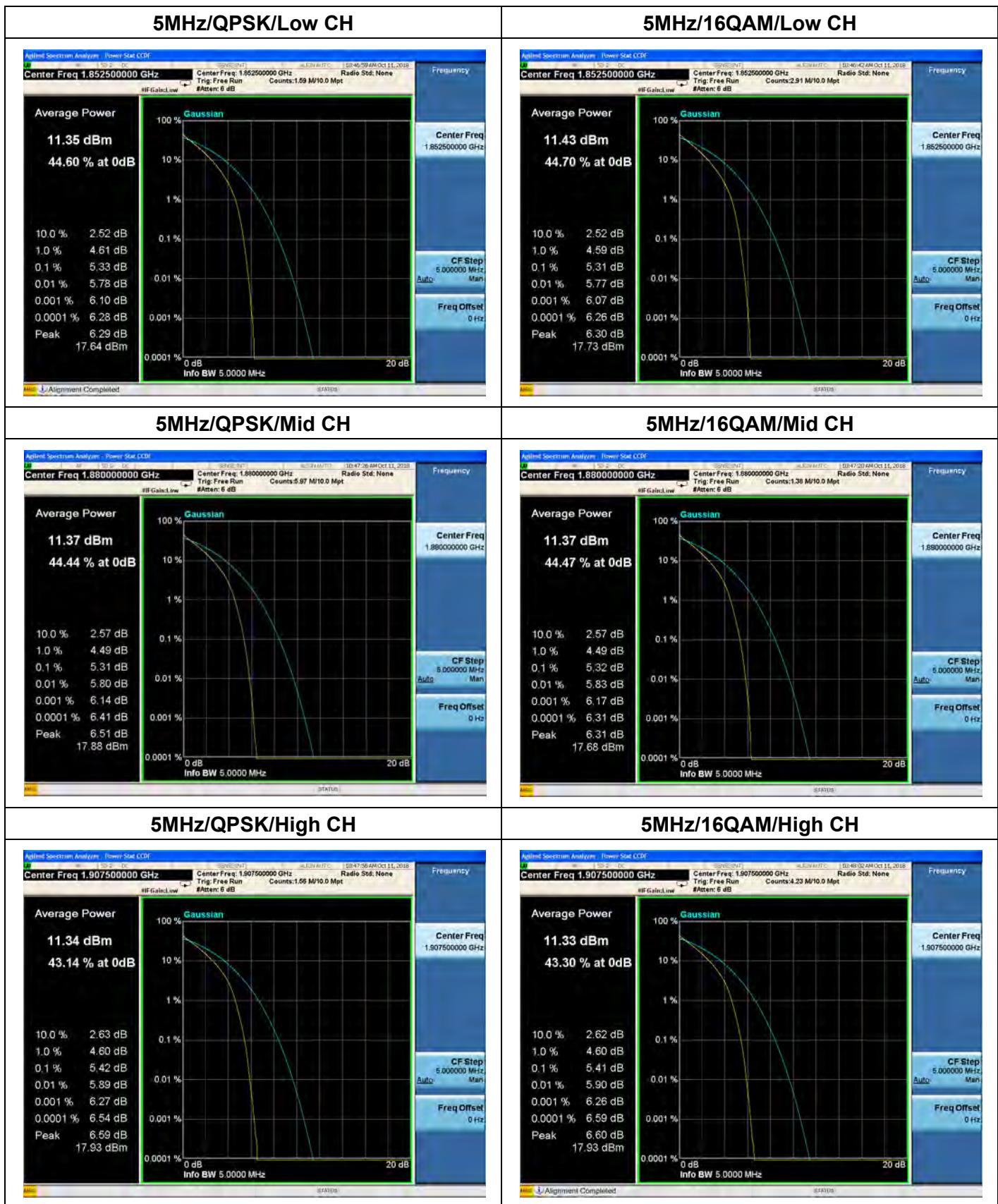
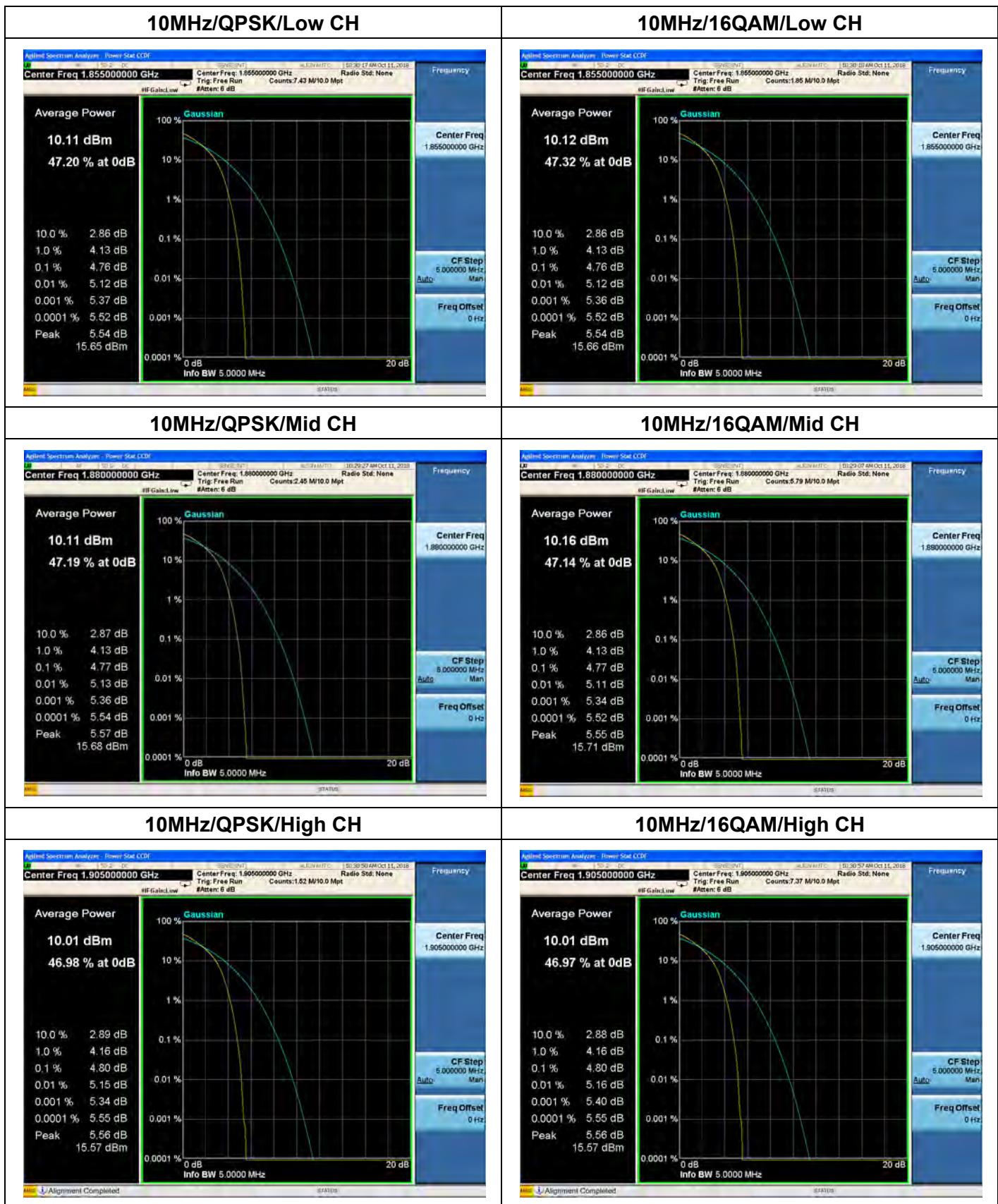


3MHz/QPSK/Low CH	3MHz/16QAM/Low CH																												
 <p>Average Power 11.29 dBm 45.55 % at 0dB</p> <table border="1"> <tr><td>10.0 %</td><td>2.49 dB</td></tr> <tr><td>1.0 %</td><td>4.64 dB</td></tr> <tr><td>0.1 %</td><td>5.32 dB</td></tr> <tr><td>0.01 %</td><td>5.73 dB</td></tr> <tr><td>0.001 %</td><td>5.99 dB</td></tr> <tr><td>0.0001 %</td><td>6.09 dB</td></tr> <tr><td>Peak</td><td>6.15 dB 17.44 dBm</td></tr> </table>	10.0 %	2.49 dB	1.0 %	4.64 dB	0.1 %	5.32 dB	0.01 %	5.73 dB	0.001 %	5.99 dB	0.0001 %	6.09 dB	Peak	6.15 dB 17.44 dBm	 <p>Average Power 11.30 dBm 45.63 % at 0dB</p> <table border="1"> <tr><td>10.0 %</td><td>2.49 dB</td></tr> <tr><td>1.0 %</td><td>4.64 dB</td></tr> <tr><td>0.1 %</td><td>5.32 dB</td></tr> <tr><td>0.01 %</td><td>5.74 dB</td></tr> <tr><td>0.001 %</td><td>6.01 dB</td></tr> <tr><td>0.0001 %</td><td>6.13 dB</td></tr> <tr><td>Peak</td><td>6.16 dB 17.46 dBm</td></tr> </table>	10.0 %	2.49 dB	1.0 %	4.64 dB	0.1 %	5.32 dB	0.01 %	5.74 dB	0.001 %	6.01 dB	0.0001 %	6.13 dB	Peak	6.16 dB 17.46 dBm
10.0 %	2.49 dB																												
1.0 %	4.64 dB																												
0.1 %	5.32 dB																												
0.01 %	5.73 dB																												
0.001 %	5.99 dB																												
0.0001 %	6.09 dB																												
Peak	6.15 dB 17.44 dBm																												
10.0 %	2.49 dB																												
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0.1 %	5.32 dB																												
0.01 %	5.74 dB																												
0.001 %	6.01 dB																												
0.0001 %	6.13 dB																												
Peak	6.16 dB 17.46 dBm																												
3MHz/QPSK/Mid CH	3MHz/16QAM/Mid CH																												
 <p>Average Power 11.21 dBm 44.79 % at 0dB</p> <table border="1"> <tr><td>10.0 %</td><td>2.56 dB</td></tr> <tr><td>1.0 %</td><td>4.51 dB</td></tr> <tr><td>0.1 %</td><td>5.46 dB</td></tr> <tr><td>0.01 %</td><td>5.96 dB</td></tr> <tr><td>0.001 %</td><td>6.25 dB</td></tr> <tr><td>0.0001 %</td><td>6.50 dB</td></tr> <tr><td>Peak</td><td>6.56 dB 17.77 dBm</td></tr> </table>	10.0 %	2.56 dB	1.0 %	4.51 dB	0.1 %	5.46 dB	0.01 %	5.96 dB	0.001 %	6.25 dB	0.0001 %	6.50 dB	Peak	6.56 dB 17.77 dBm	 <p>Average Power 11.29 dBm 45.06 % at 0dB</p> <table border="1"> <tr><td>10.0 %</td><td>2.56 dB</td></tr> <tr><td>1.0 %</td><td>4.51 dB</td></tr> <tr><td>0.1 %</td><td>5.46 dB</td></tr> <tr><td>0.01 %</td><td>5.97 dB</td></tr> <tr><td>0.001 %</td><td>6.27 dB</td></tr> <tr><td>0.0001 %</td><td>— dB</td></tr> <tr><td>Peak</td><td>6.38 dB 17.67 dBm</td></tr> </table>	10.0 %	2.56 dB	1.0 %	4.51 dB	0.1 %	5.46 dB	0.01 %	5.97 dB	0.001 %	6.27 dB	0.0001 %	— dB	Peak	6.38 dB 17.67 dBm
10.0 %	2.56 dB																												
1.0 %	4.51 dB																												
0.1 %	5.46 dB																												
0.01 %	5.96 dB																												
0.001 %	6.25 dB																												
0.0001 %	6.50 dB																												
Peak	6.56 dB 17.77 dBm																												
10.0 %	2.56 dB																												
1.0 %	4.51 dB																												
0.1 %	5.46 dB																												
0.01 %	5.97 dB																												
0.001 %	6.27 dB																												
0.0001 %	— dB																												
Peak	6.38 dB 17.67 dBm																												
3MHz/QPSK/High CH	3MHz/16QAM/High CH																												
 <p>Average Power 11.30 dBm 43.46 % at 0dB</p> <table border="1"> <tr><td>10.0 %</td><td>2.63 dB</td></tr> <tr><td>1.0 %</td><td>4.59 dB</td></tr> <tr><td>0.1 %</td><td>5.51 dB</td></tr> <tr><td>0.01 %</td><td>6.00 dB</td></tr> <tr><td>0.001 %</td><td>6.37 dB</td></tr> <tr><td>0.0001 %</td><td>6.49 dB</td></tr> <tr><td>Peak</td><td>6.60 dB 17.90 dBm</td></tr> </table>	10.0 %	2.63 dB	1.0 %	4.59 dB	0.1 %	5.51 dB	0.01 %	6.00 dB	0.001 %	6.37 dB	0.0001 %	6.49 dB	Peak	6.60 dB 17.90 dBm	 <p>Average Power 11.29 dBm 43.36 % at 0dB</p> <table border="1"> <tr><td>10.0 %</td><td>2.63 dB</td></tr> <tr><td>1.0 %</td><td>4.60 dB</td></tr> <tr><td>0.1 %</td><td>5.52 dB</td></tr> <tr><td>0.01 %</td><td>6.00 dB</td></tr> <tr><td>0.001 %</td><td>6.31 dB</td></tr> <tr><td>0.0001 %</td><td>6.49 dB</td></tr> <tr><td>Peak</td><td>6.60 dB 17.89 dBm</td></tr> </table>	10.0 %	2.63 dB	1.0 %	4.60 dB	0.1 %	5.52 dB	0.01 %	6.00 dB	0.001 %	6.31 dB	0.0001 %	6.49 dB	Peak	6.60 dB 17.89 dBm
10.0 %	2.63 dB																												
1.0 %	4.59 dB																												
0.1 %	5.51 dB																												
0.01 %	6.00 dB																												
0.001 %	6.37 dB																												
0.0001 %	6.49 dB																												
Peak	6.60 dB 17.90 dBm																												
10.0 %	2.63 dB																												
1.0 %	4.60 dB																												
0.1 %	5.52 dB																												
0.01 %	6.00 dB																												
0.001 %	6.31 dB																												
0.0001 %	6.49 dB																												
Peak	6.60 dB 17.89 dBm																												





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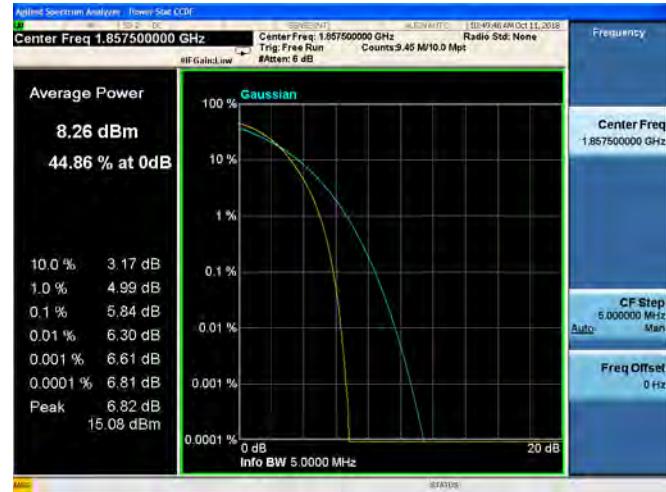
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Http://www.morlab.cn E-mail: service@morlab.cn



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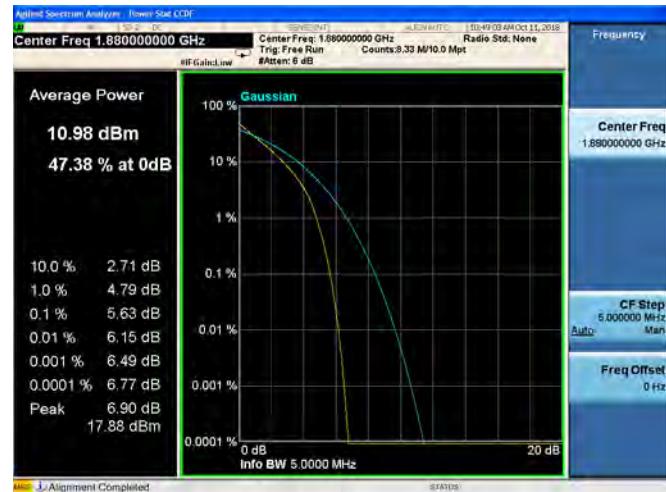
## 15MHz/QPSK/Low CH

## 15MHz/16QAM/Low CH



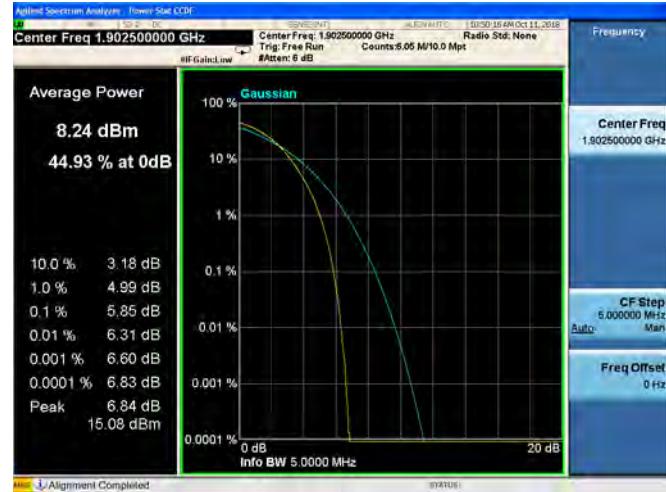
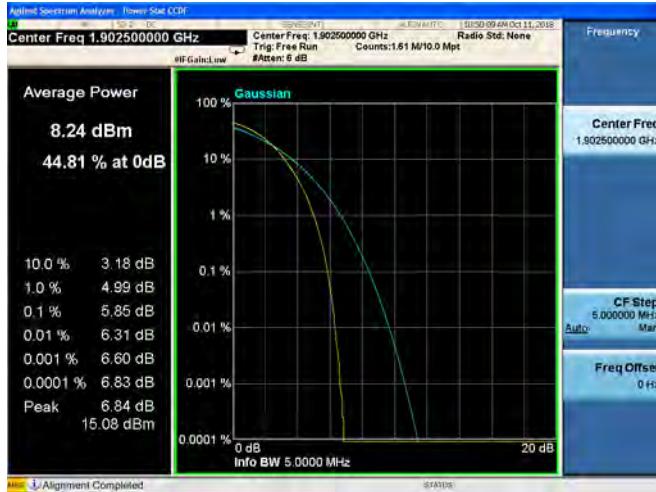
## 15MHz/QPSK/Mid CH

## 15MHz/16QAM/Mid CH



## 15MHz/QPSK/High CH

## 15MHz/16QAM/High CH



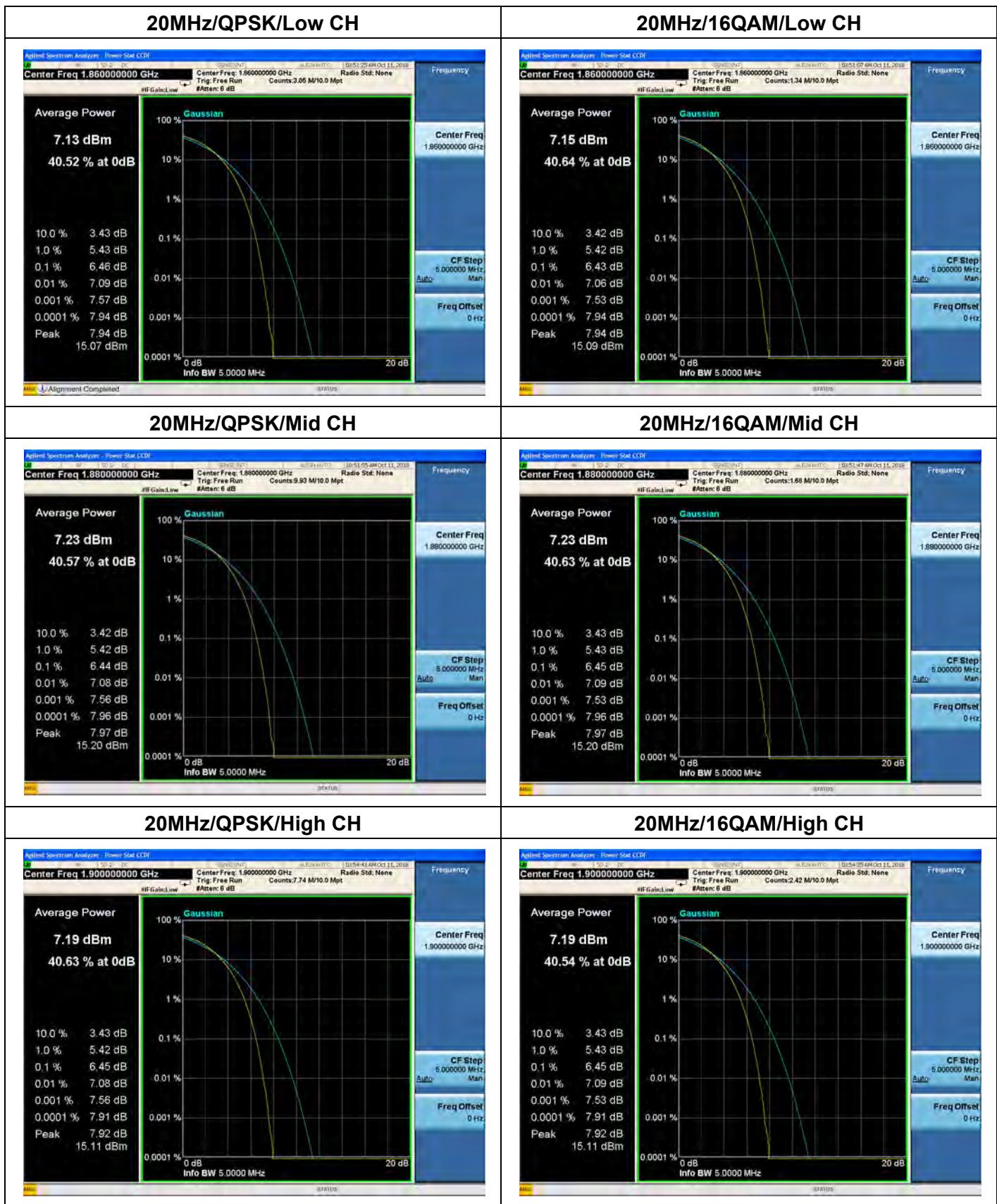
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**LTE Band 4, BW: 1.4MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18607	1850.7	4.65	5.49
18900	1880.0	4.91	5.74
19192	1909.2	4.60	4.60

**LTE Band 4, BW: 3MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18615	1851.5	4.94	5.81
18900	1880.0	5.38	5.96
19184	1908.4	4.86	5.67

**LTE Band 4, BW: 5MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18625	1852.5	5.38	6.09
18900	1880.0	5.40	6.17
19175	1907.5	5.29	5.94

**LTE Band 4, BW: 10MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18650	1855.0	6.47	6.85
18900	1880.0	6.44	6.84
19150	1905.0	6.51	6.79

**LTE Band 4, BW: 15MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18675	1857.5	6.70	6.81
18900	1880.0	7.22	7.27
19125	1902.5	7.25	7.26

**LTE Band 4, BW: 20MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18700	1860.0	7.13	7.25
18900	1880.0	7.56	7.58
19100	1900.0	7.53	7.55



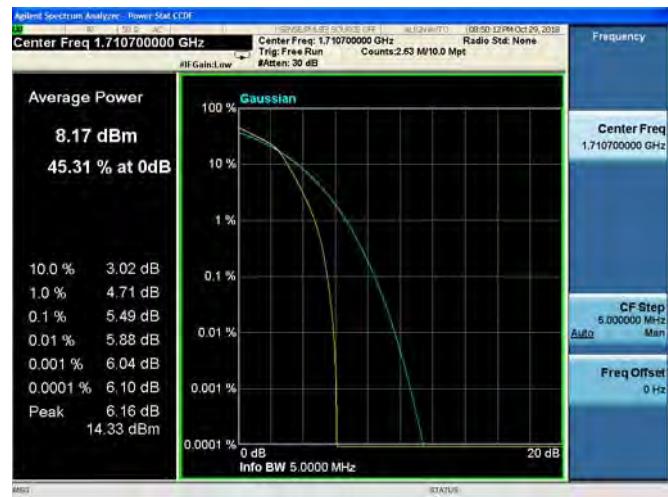
REPORT No.: SZ18090338W06

## LTE Band 4 Peak to Average Radio

## 1.4MHz/QPSK/Low CH



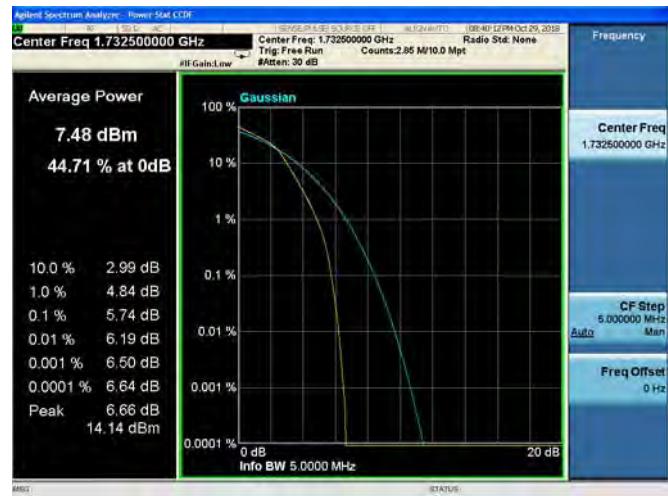
## 1.4MHz/16QAM/Low CH



## 1.4MHz/QPSK/Mid CH



## 1.4MHz/16QAM/Mid CH



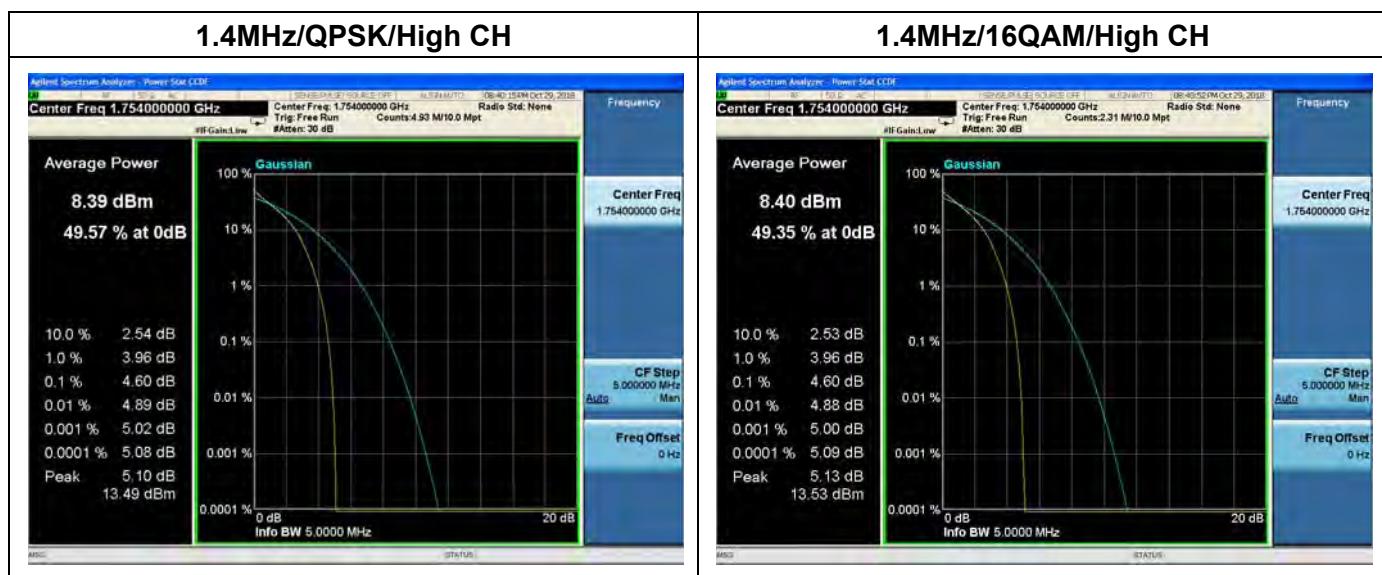
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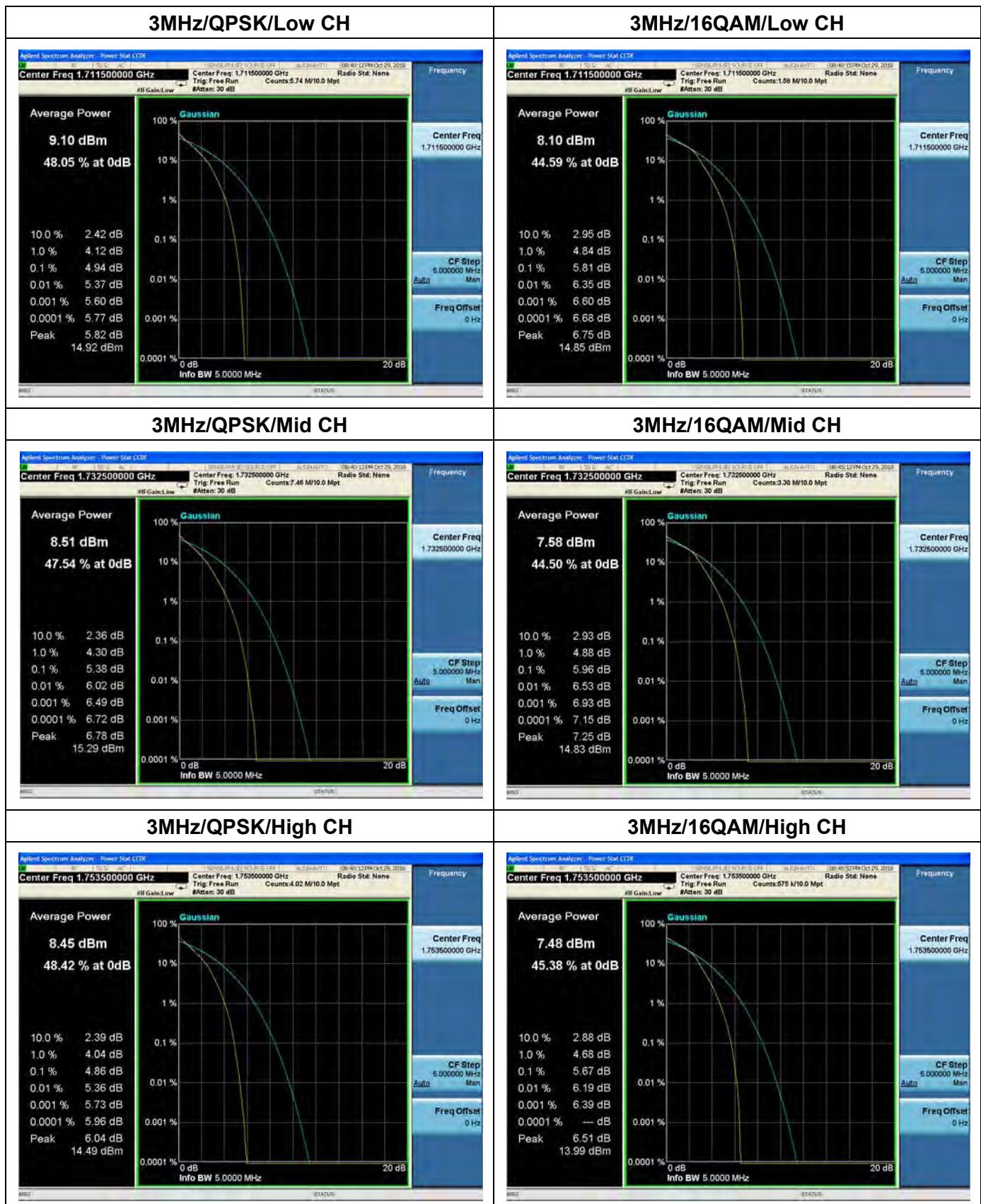
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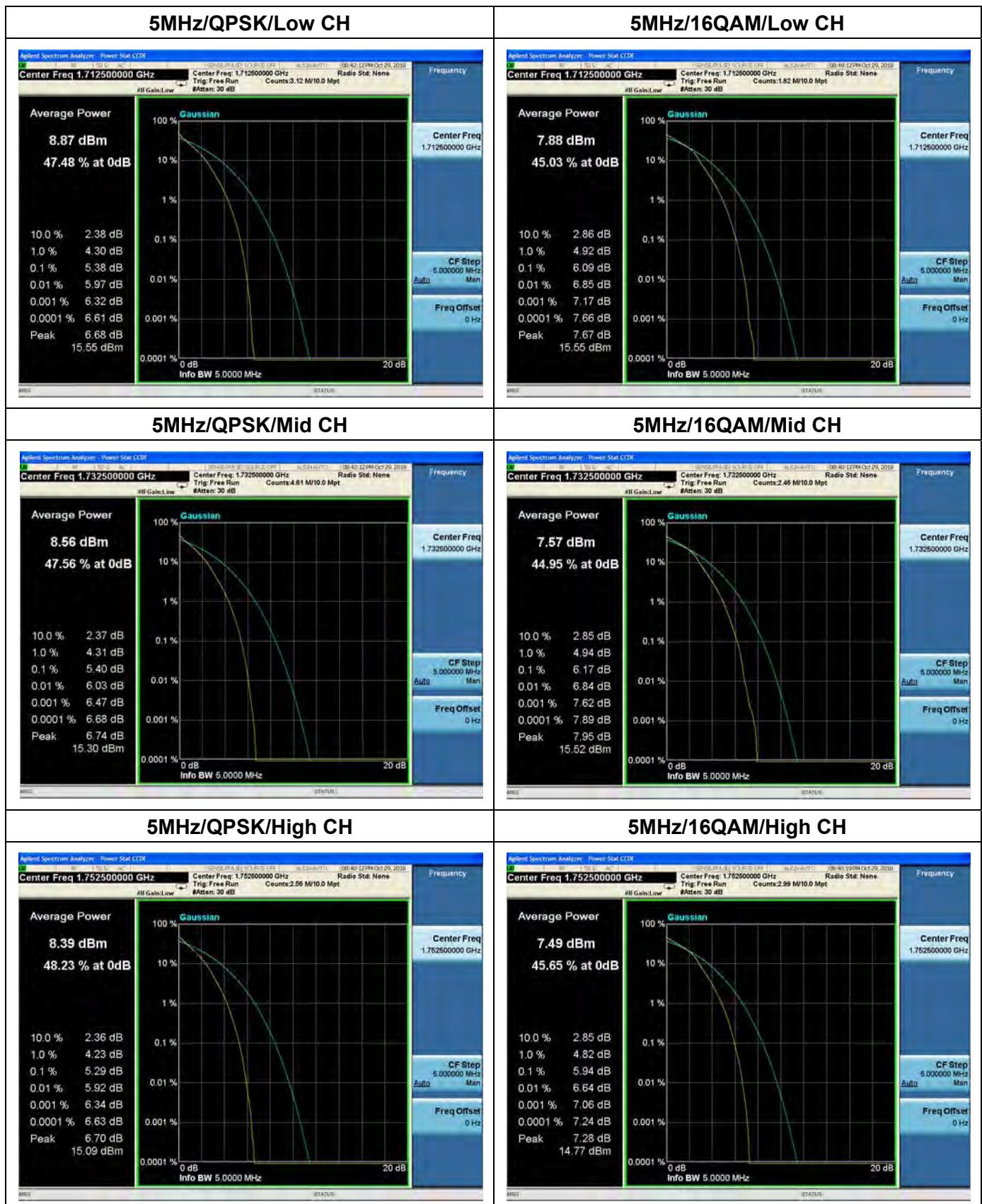
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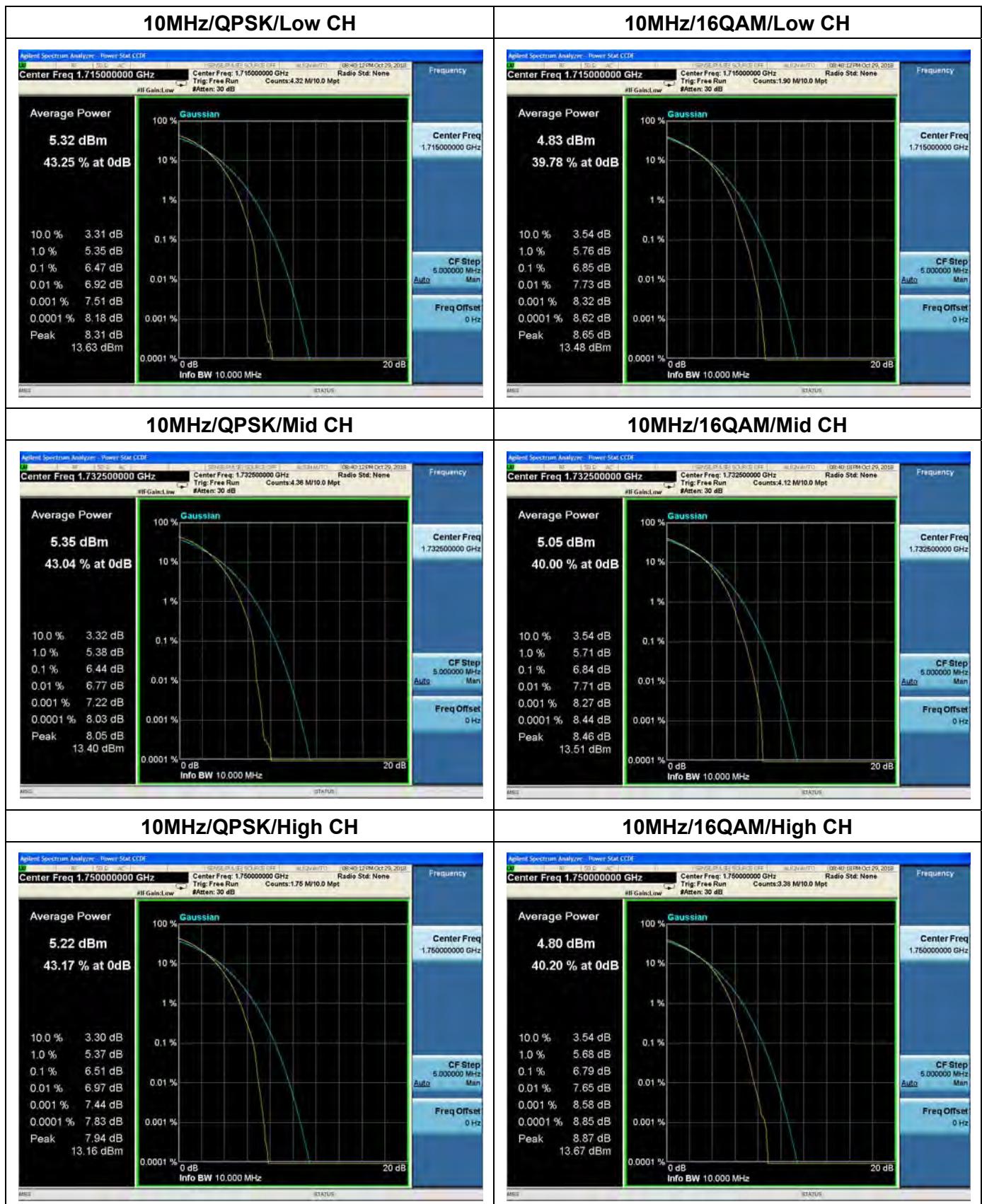
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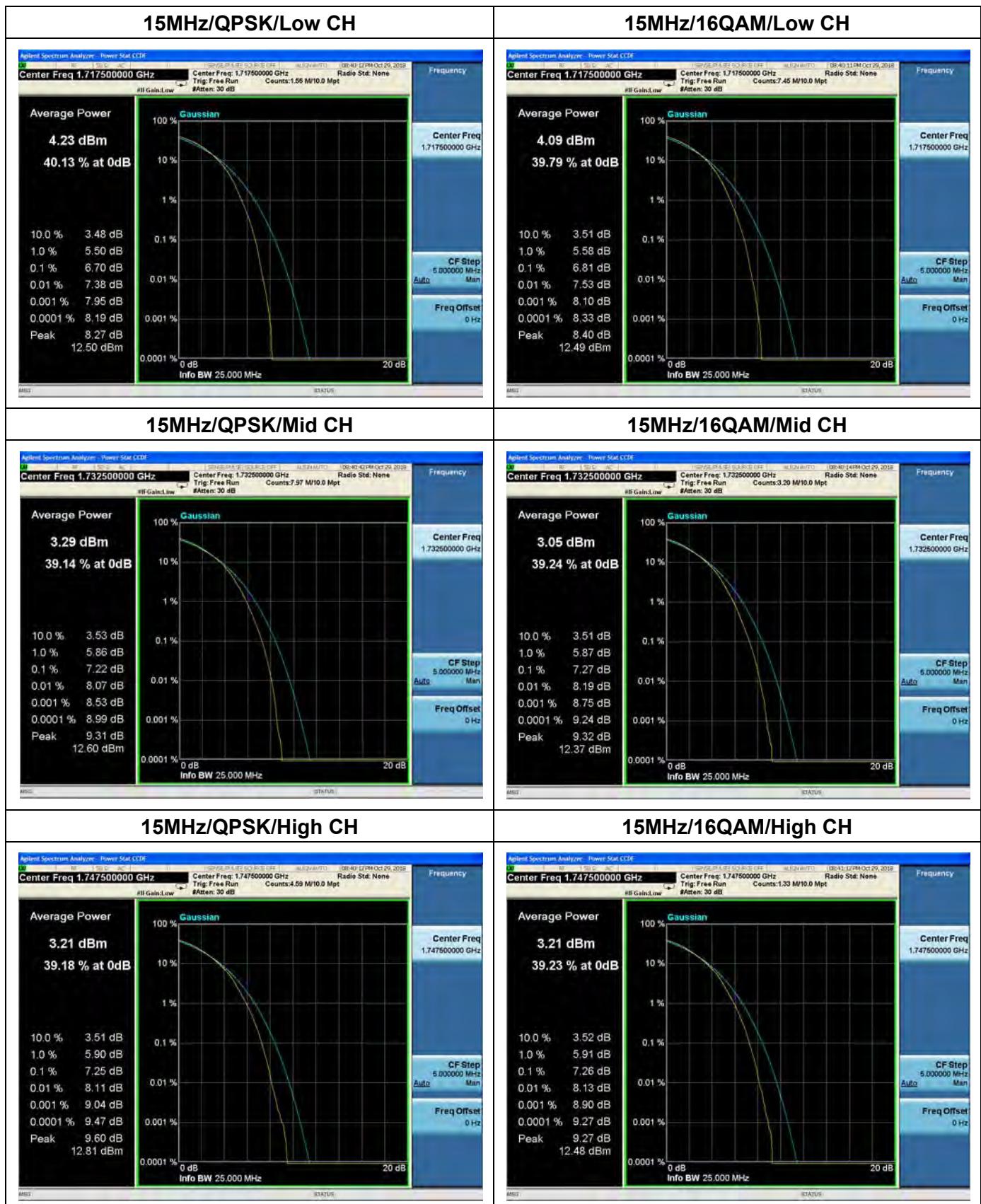
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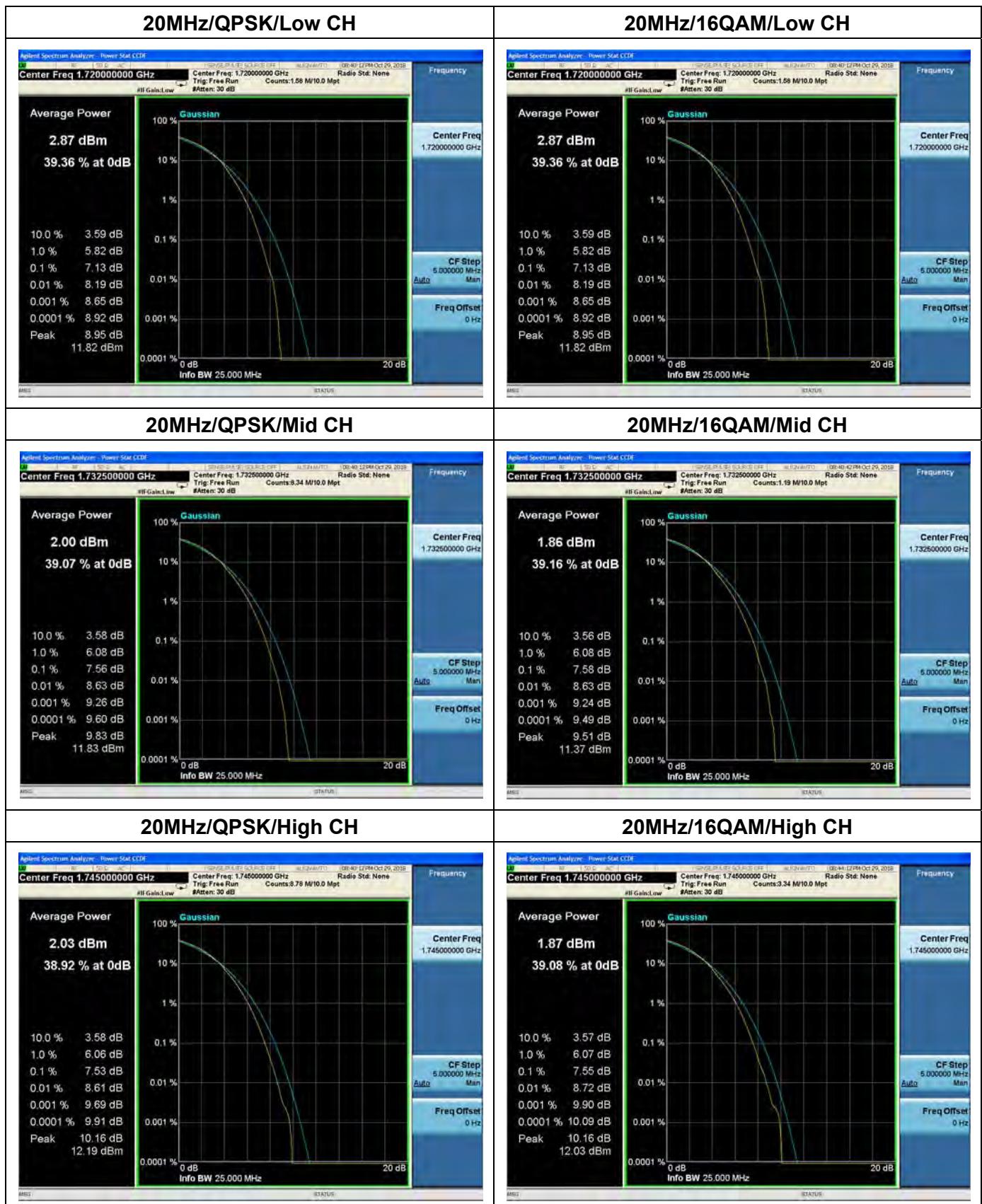


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Fax: 86-755-36698525  
Http://www.morlab.cn  
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**LTE Band 5, BW: 1.4MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20407	824.7	5.15	5.49
20525	836.5	5.59	6.45
20643	848.3	5.43	6.19

**LTE Band 5, BW: 3MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20415	825.5	4.75	4.75
20525	836.5	4.83	4.80
20635	847.5	5.02	5.02

**LTE Band 5, BW: 5MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20425	826.5	4.92	4.91
20525	836.5	4.92	4.92
20625	846.5	5.03	5.03

**LTE Band 5, BW: 10MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20450	829.0	4.27	4.80
20525	836.5	5.42	4.78
20600	844.0	4.75	4.75



REPORT No.: SZ18090338W06

## LTE Band 5 Peak to Average Radio

## 1.4MHz/QPSK/Low CH



## 1.4MHz/16QAM/Low CH



## 1.4MHz/QPSK/Mid CH



## 1.4MHz/16QAM/Mid CH



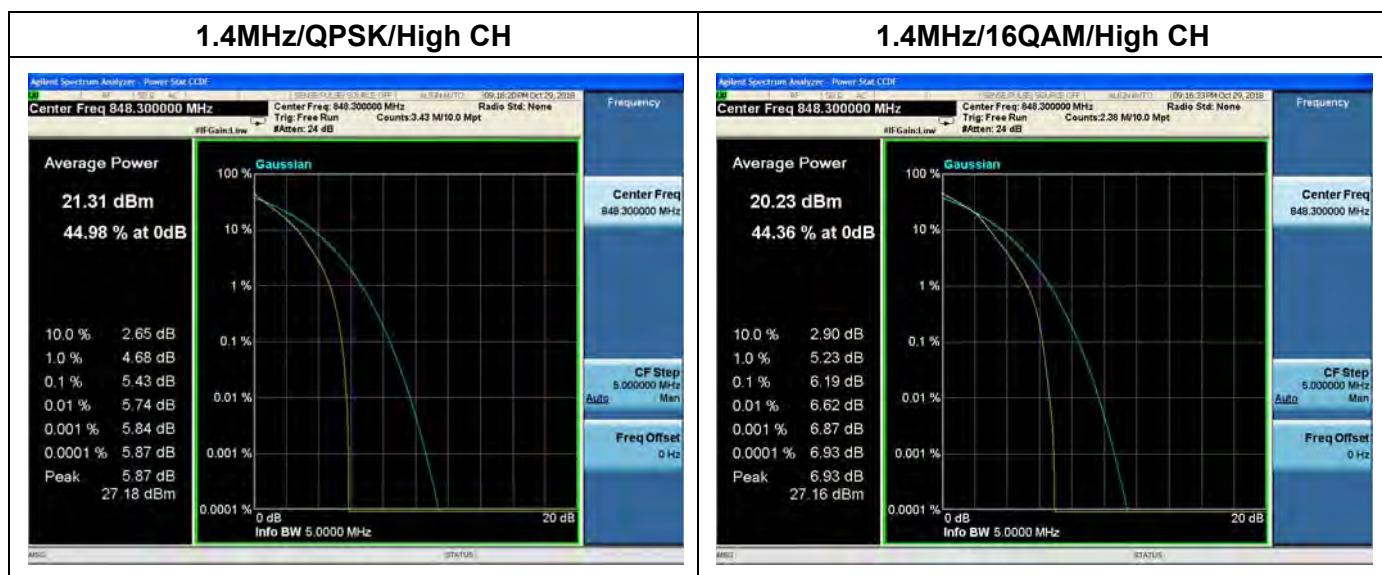
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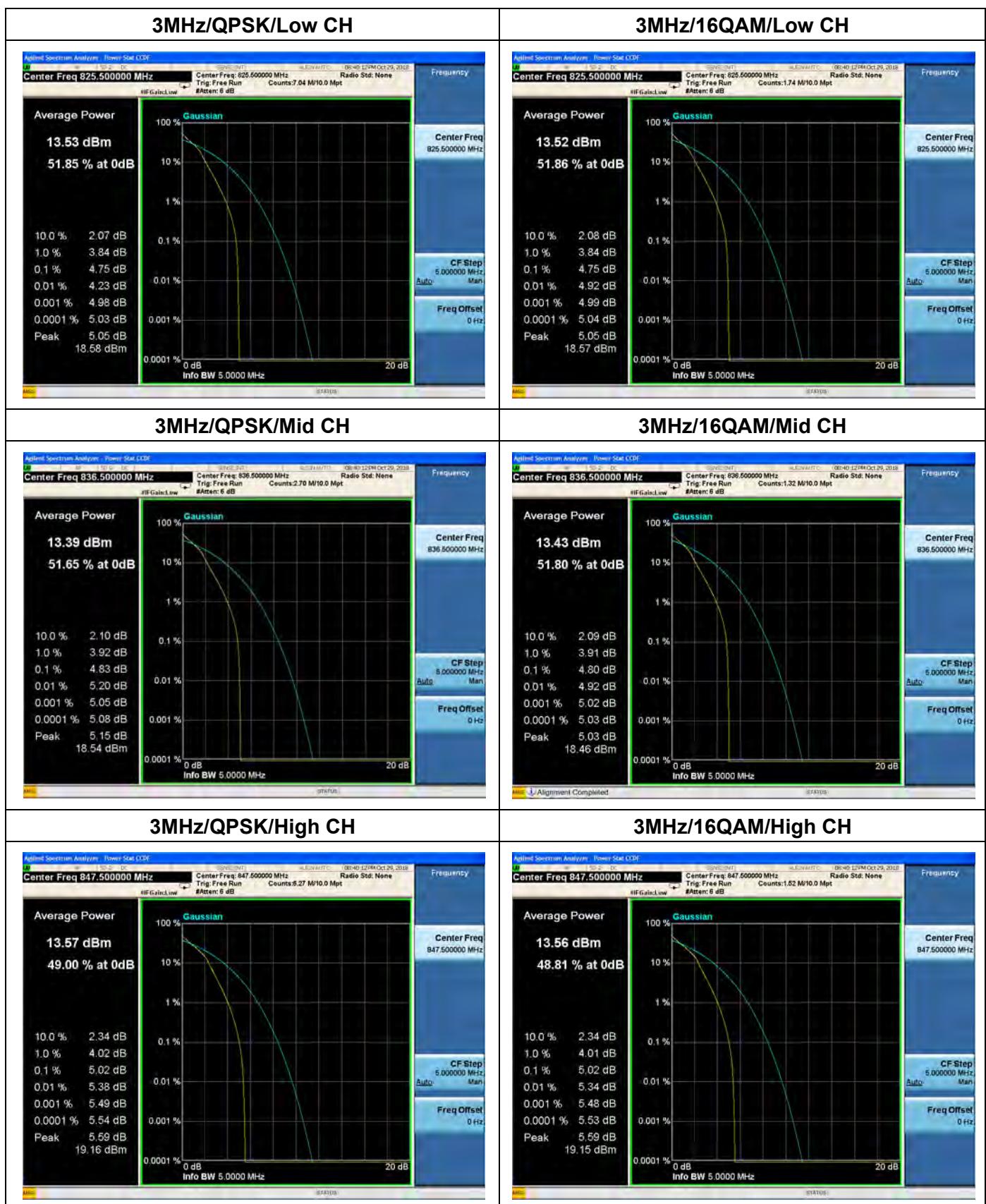
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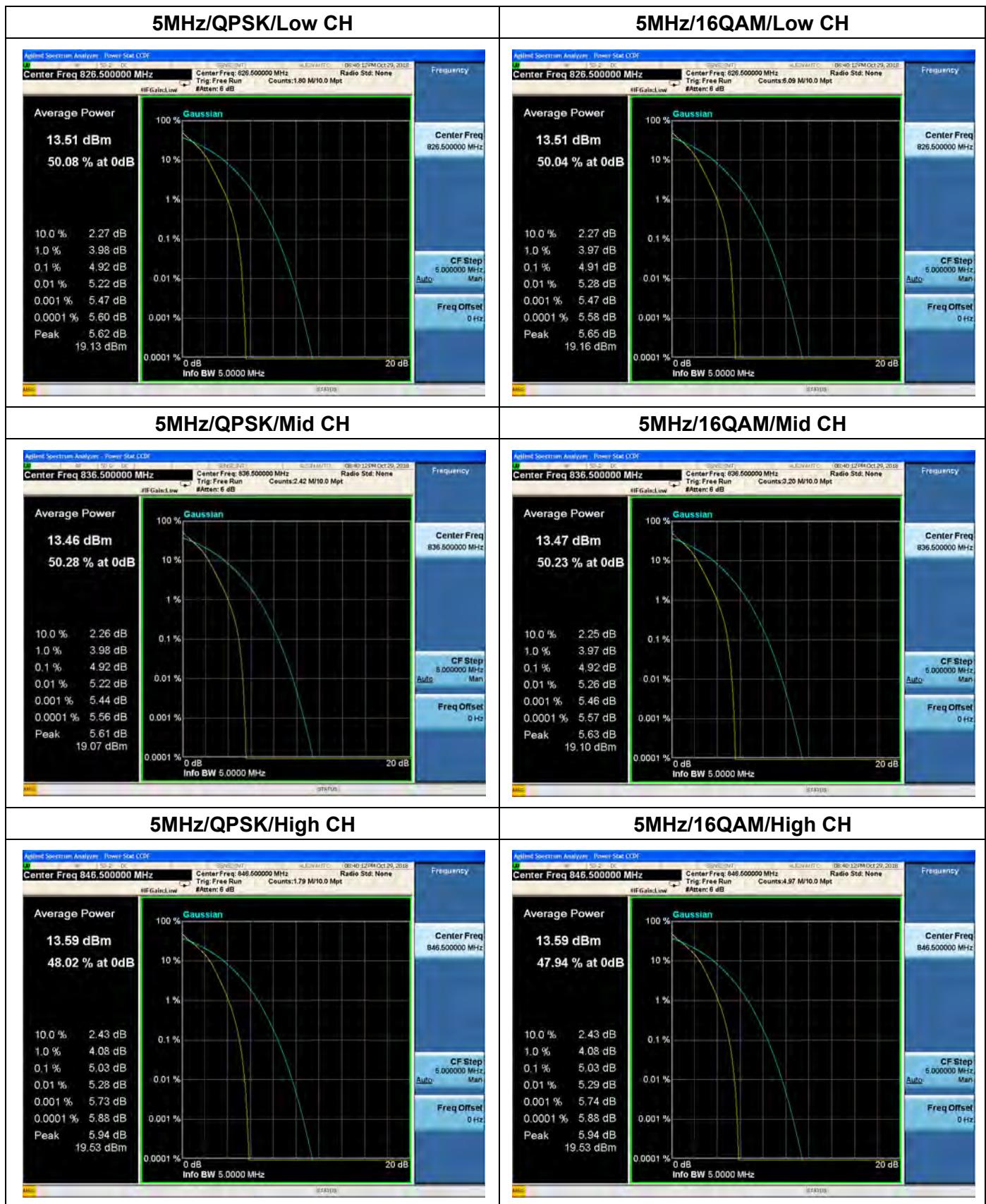


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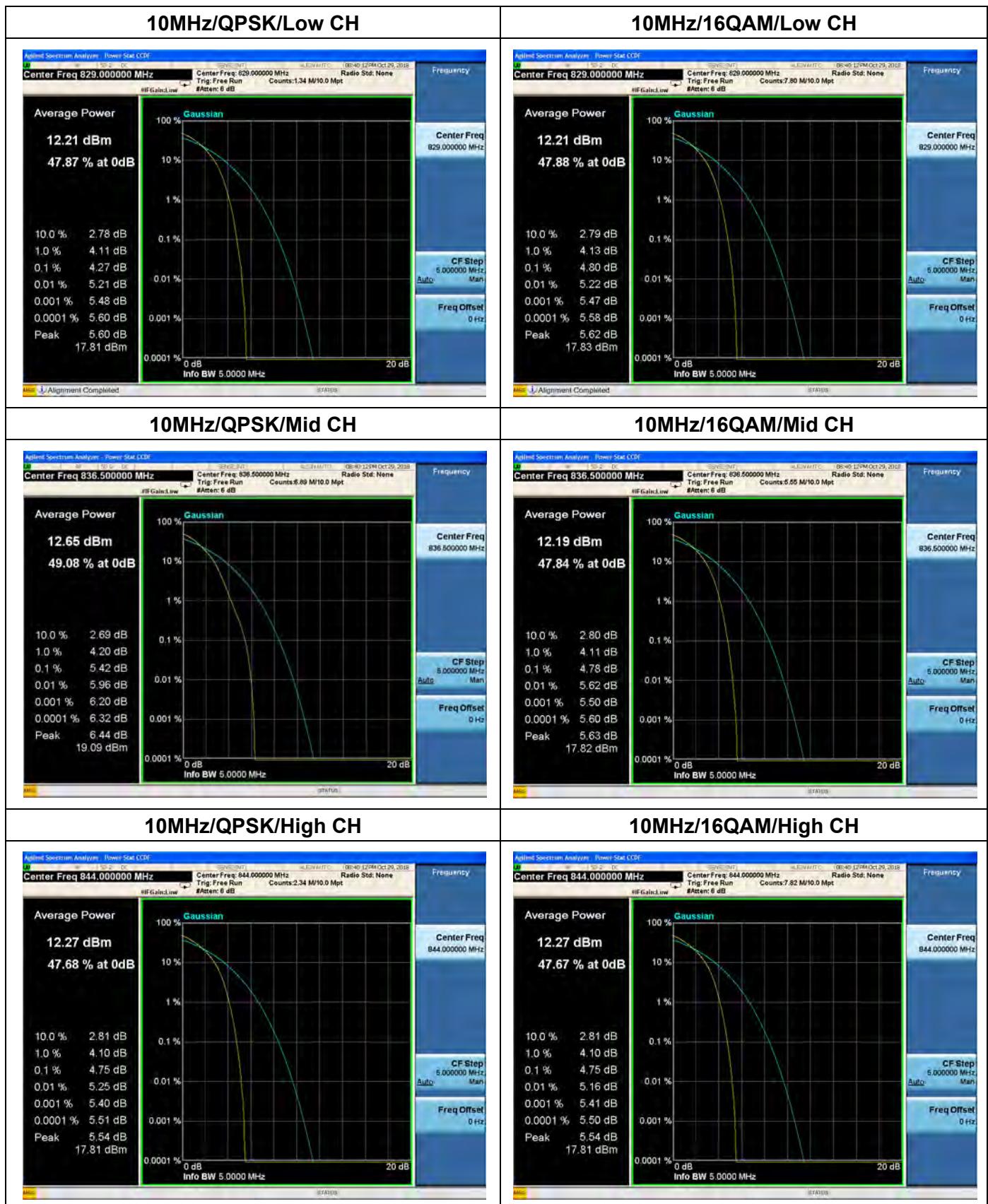
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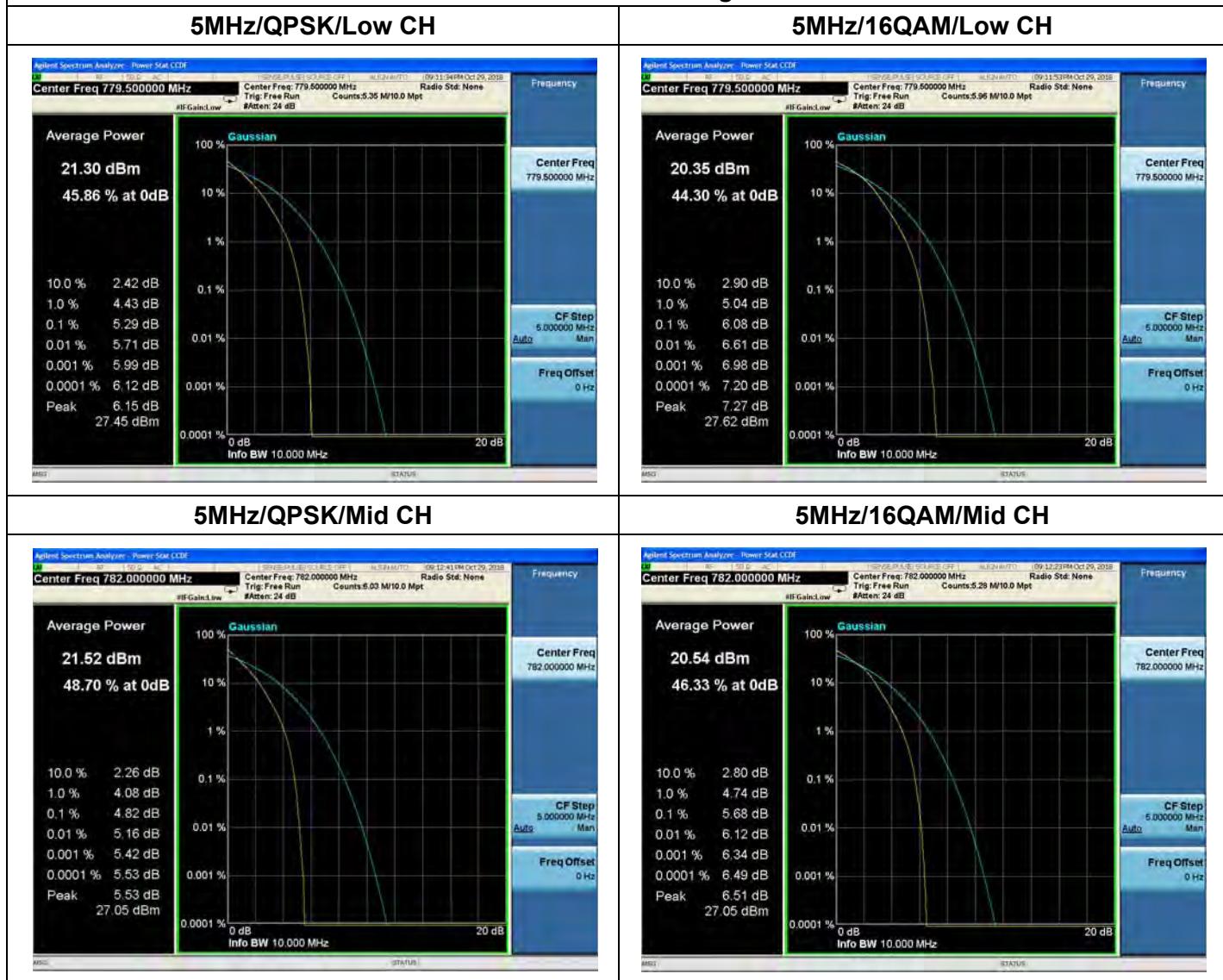
### LTE Band 13, BW: 5MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23205	779.5	5.29	6.08
23230	782.0	4.82	5.68
23255	784.5	5.08	5.74

### LTE Band 13, BW: 10MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23230	782.0	4.94	5.81

### LTE Band 7 Peak to Average Radio



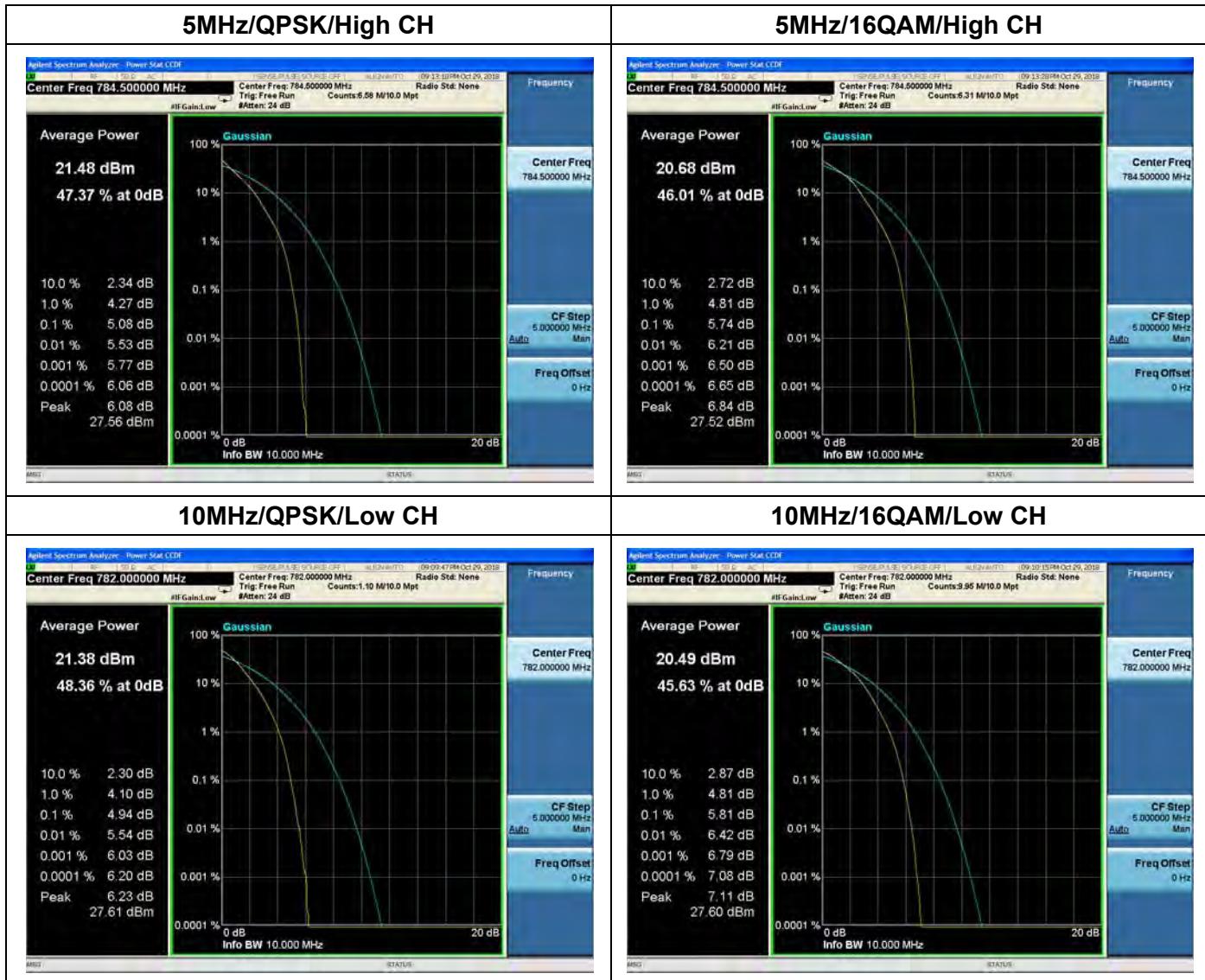
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Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

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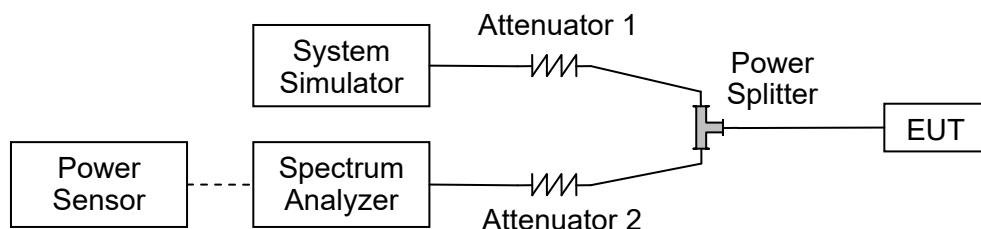
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## 2.5. Conducted Spurious Emissions

### 2.5.1. Requirement

According to FCC section 2.1051, 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. This calculated to be -13dBm.

### 2.5.2. Test Description



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

### 2.5.3. Test procedure

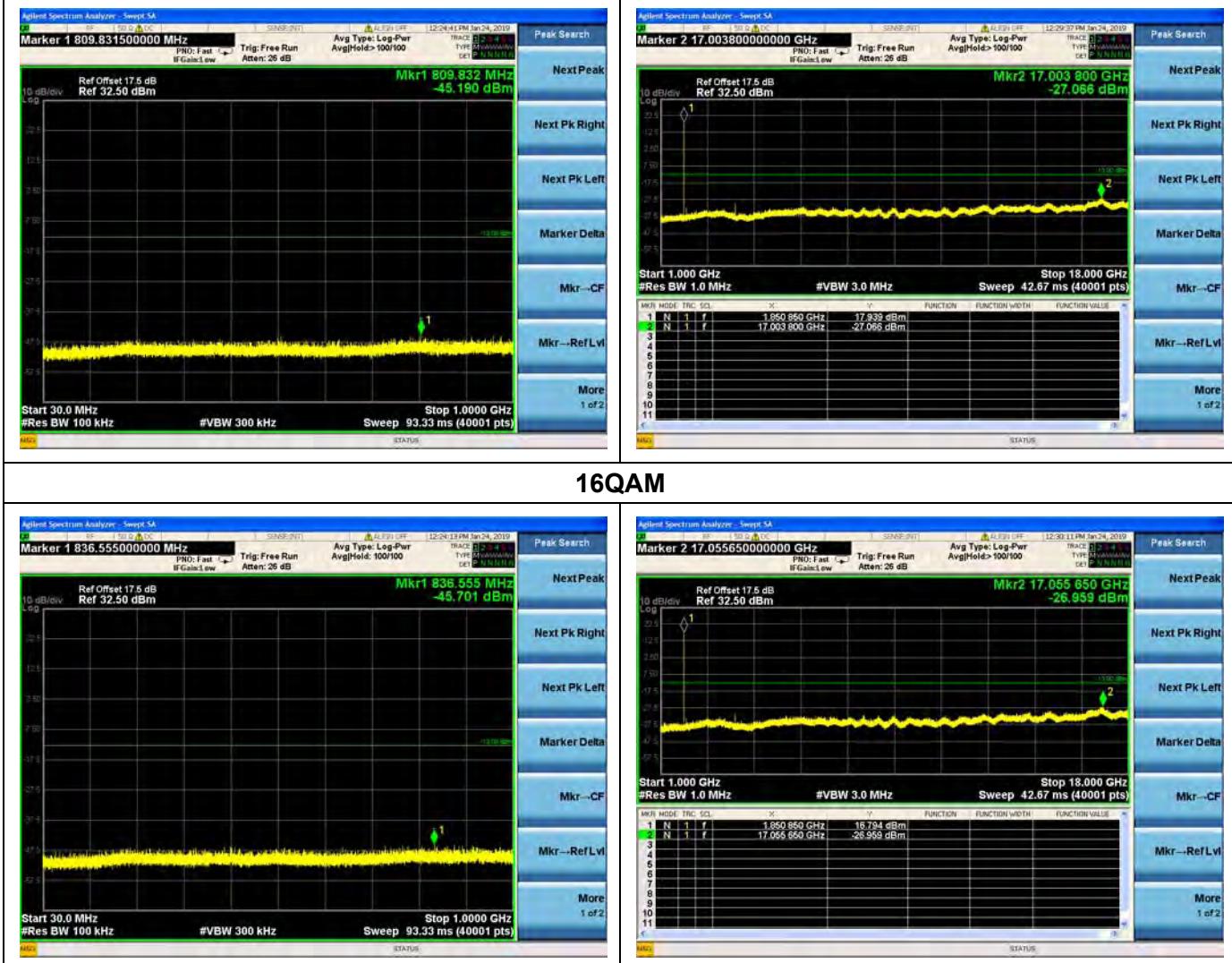
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

### 2.5.4. Test Result



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## LTE Band 2 1.4MHz BW Low Channel QPSK



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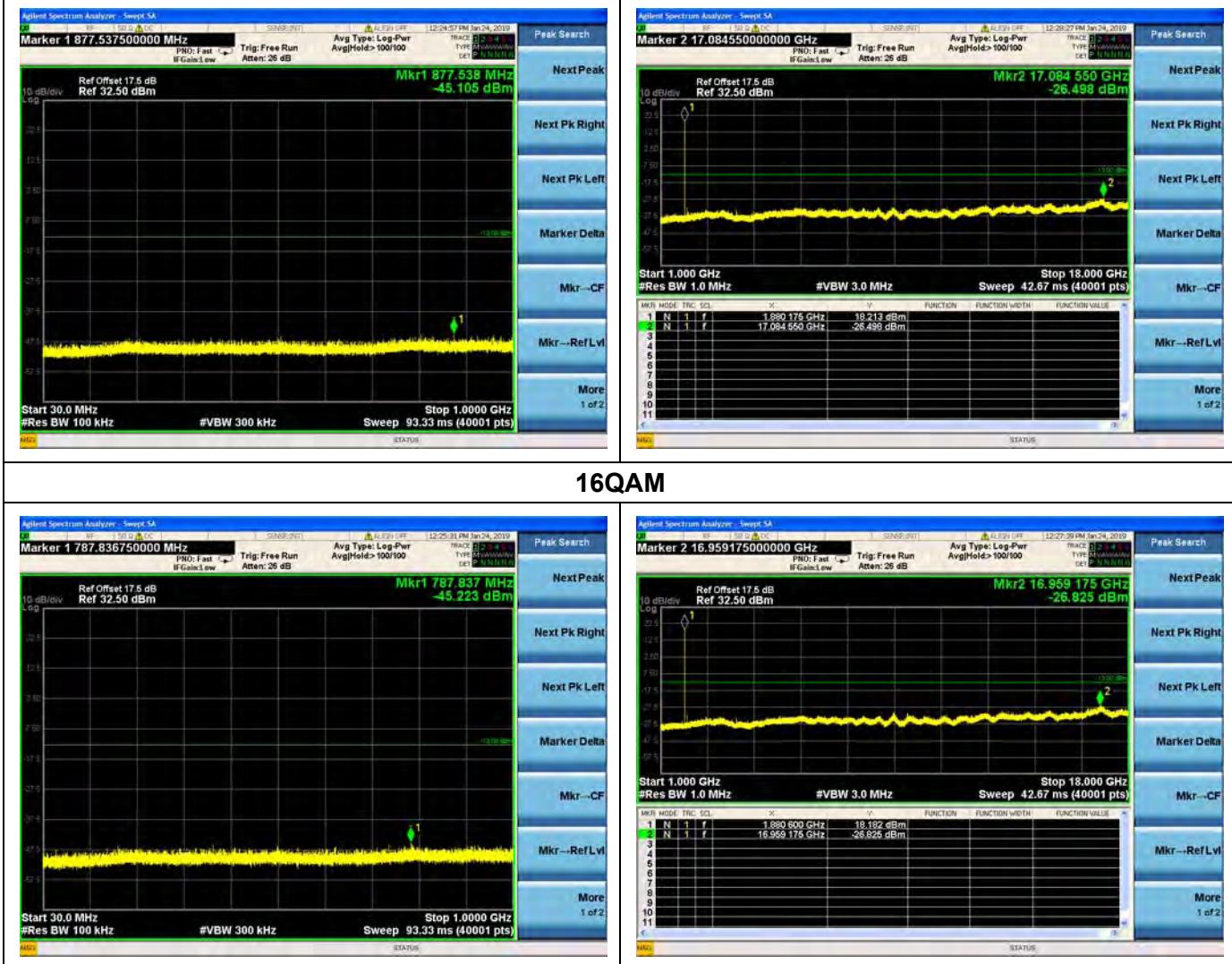
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## LTE Band 2 1.4MHz BW Mid Channel QPSK



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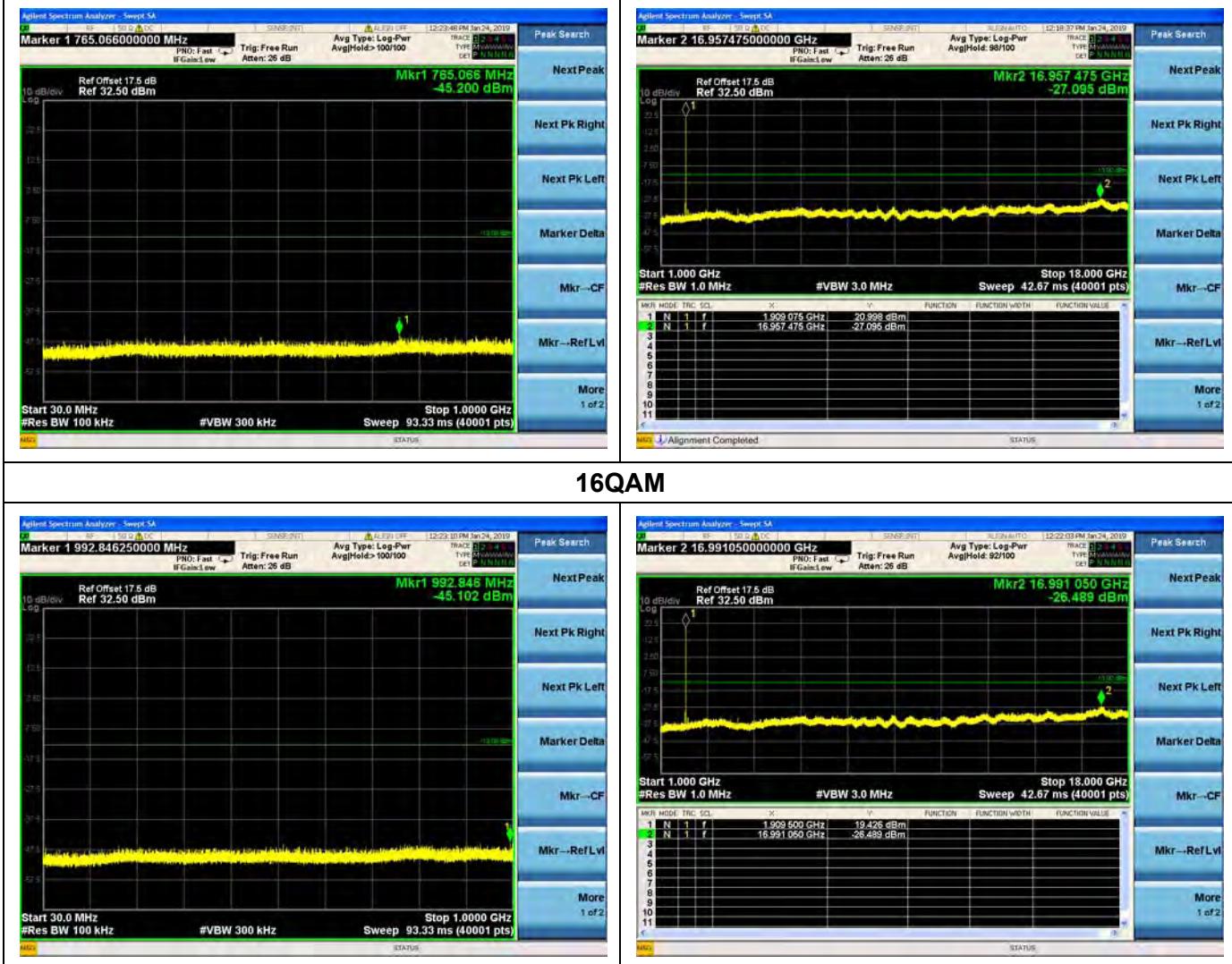
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## LTE Band 2 1.4MHz BW High Channel QPSK

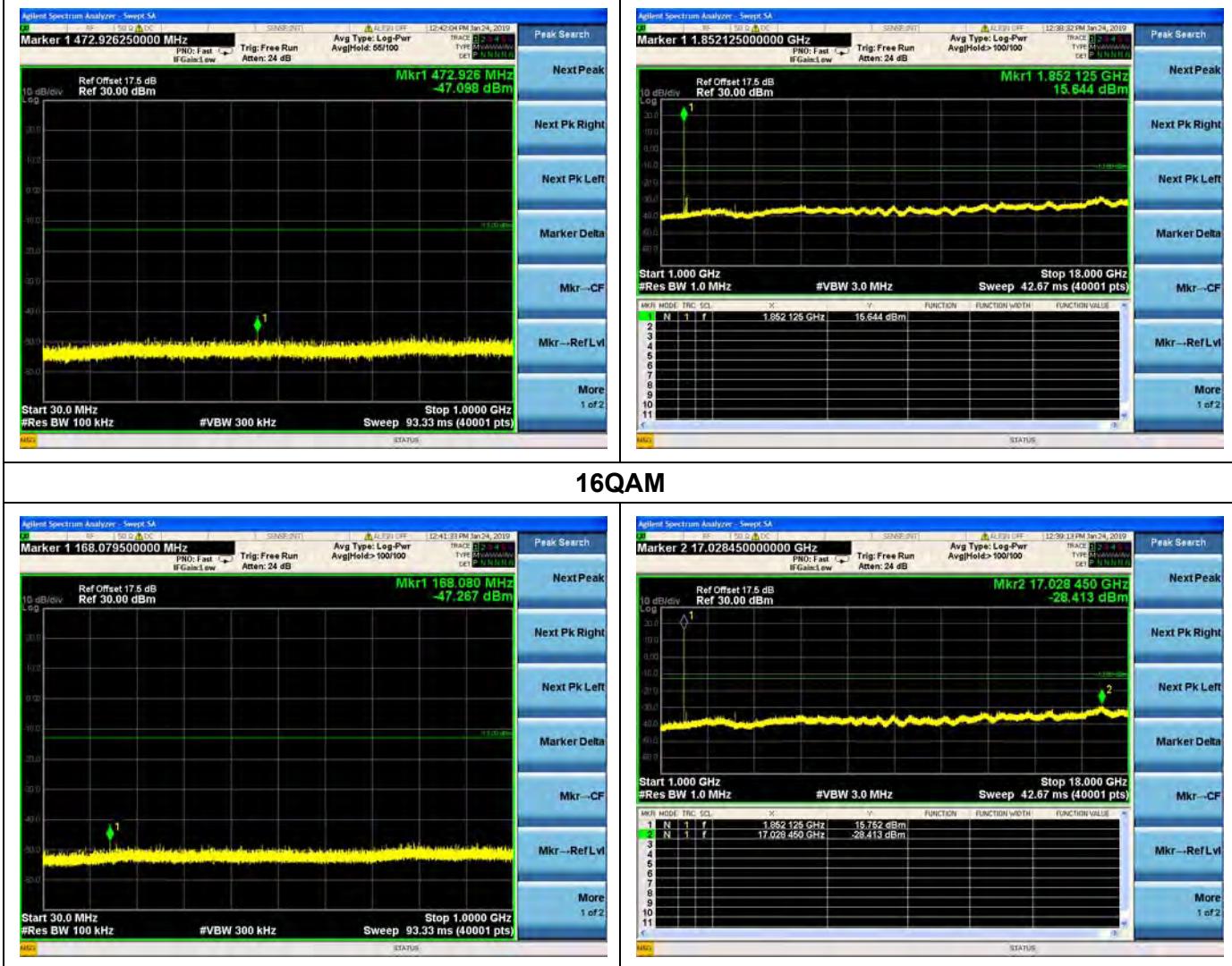


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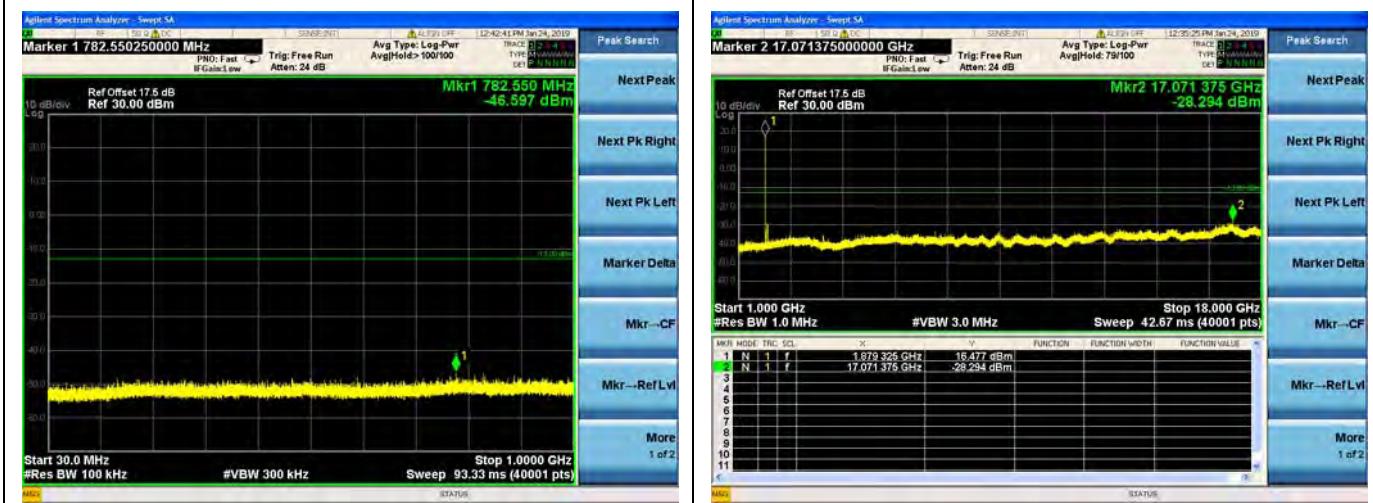
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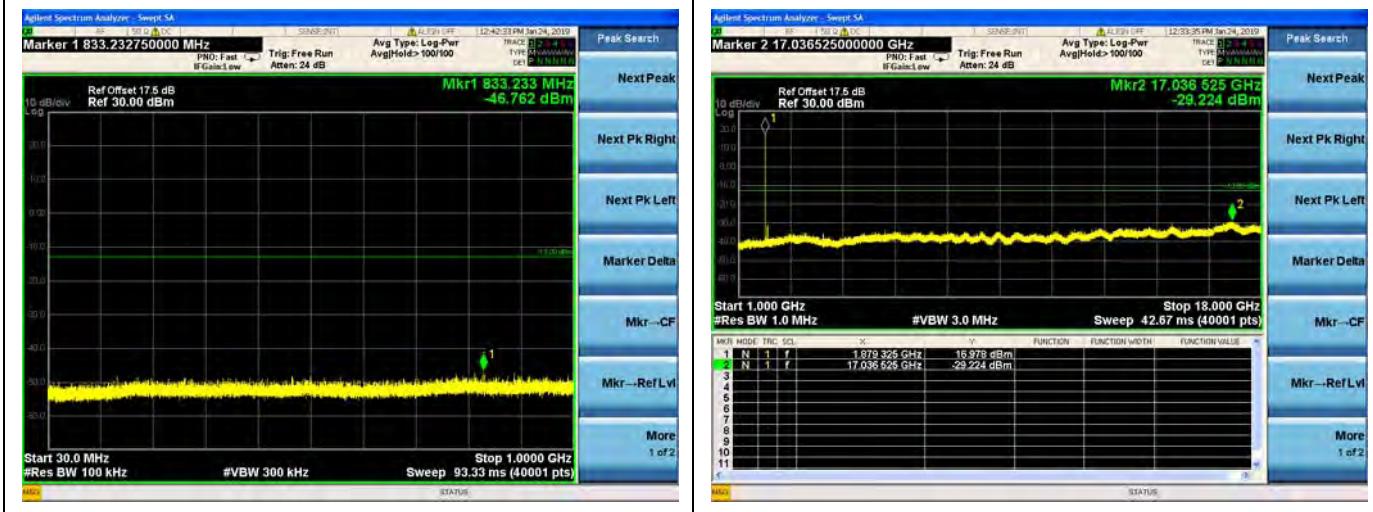


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## LTE Band 2 3MHz BW Mid Channel QPSK



## 16QAM



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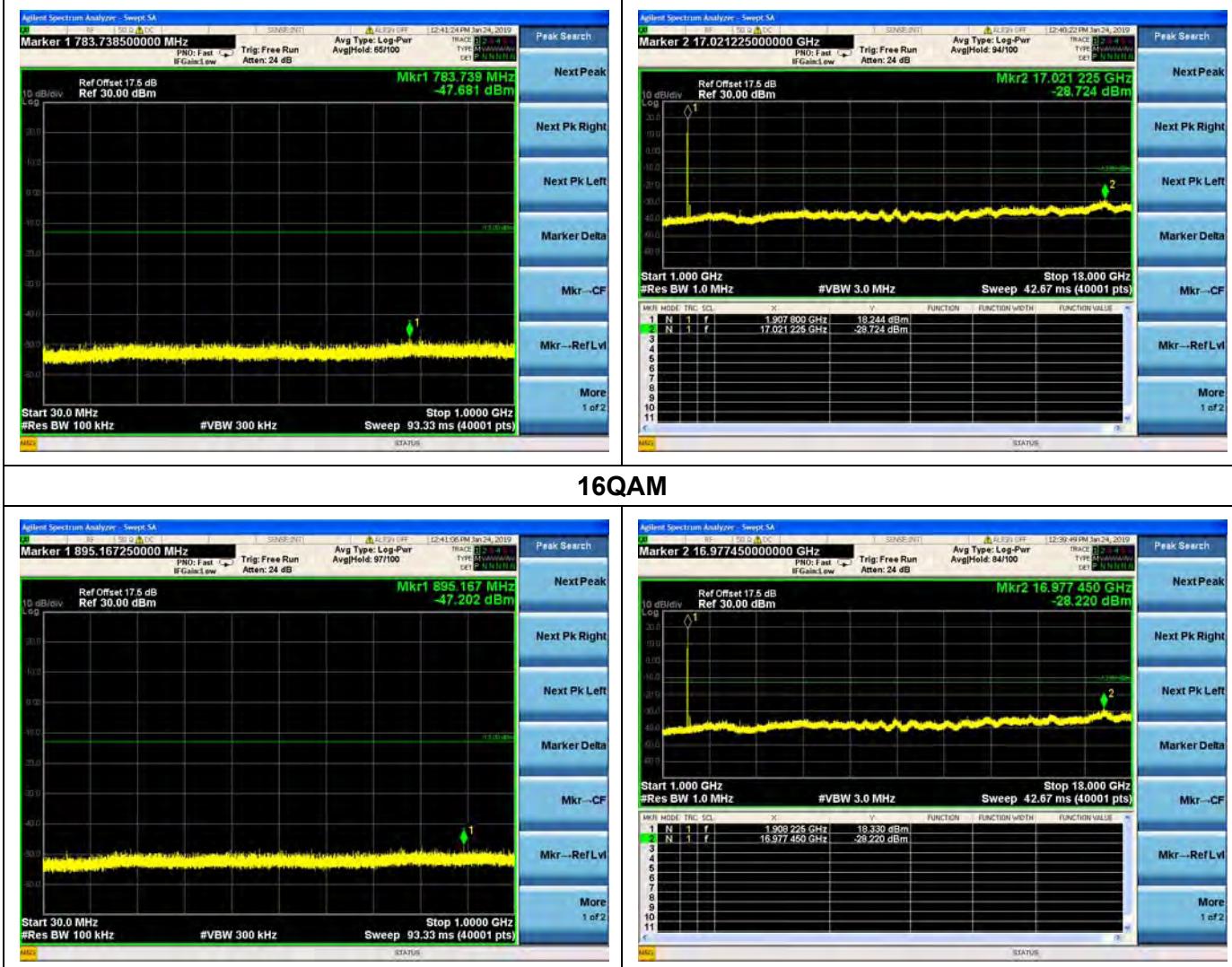
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## LTE Band 2 3MHz BW High Channel QPSK



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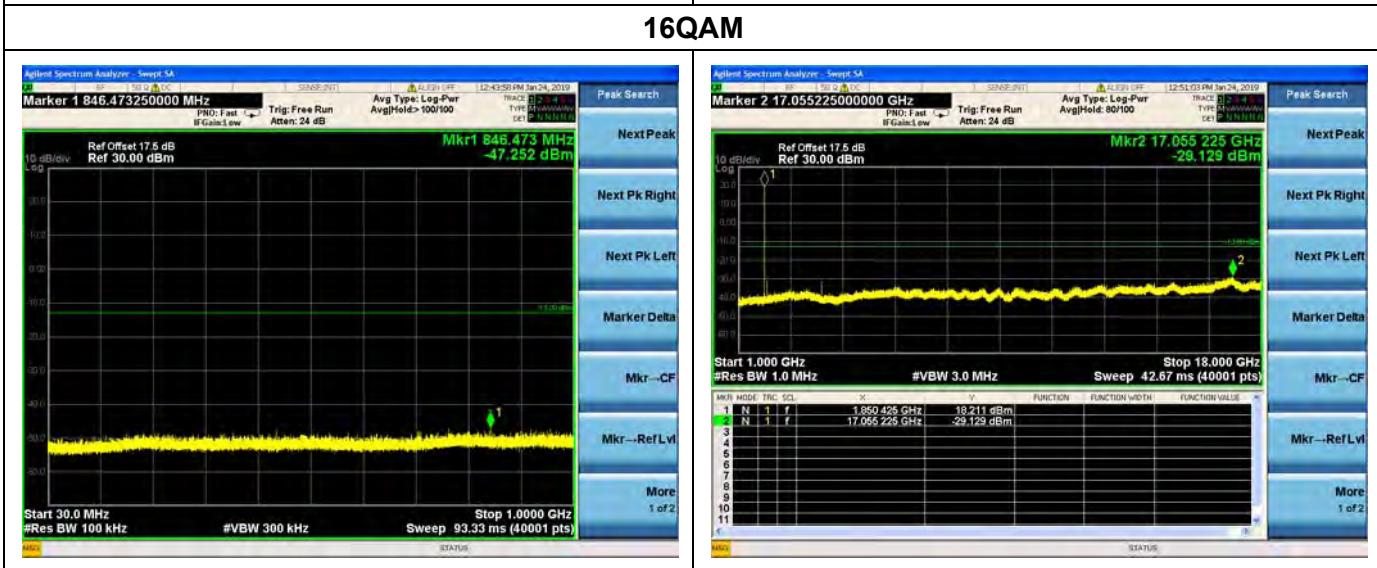
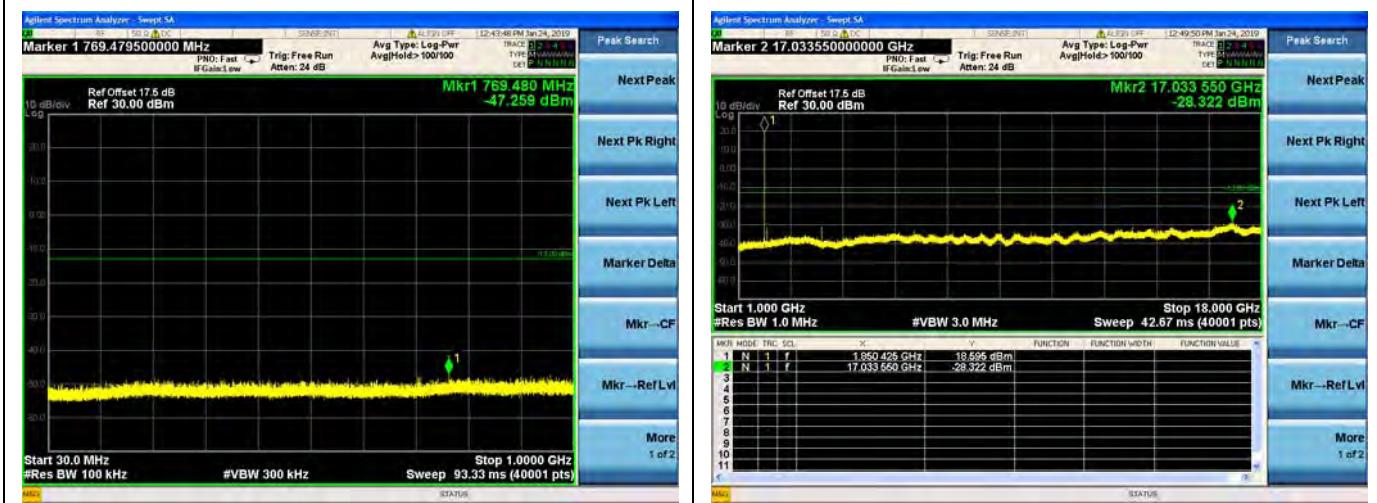
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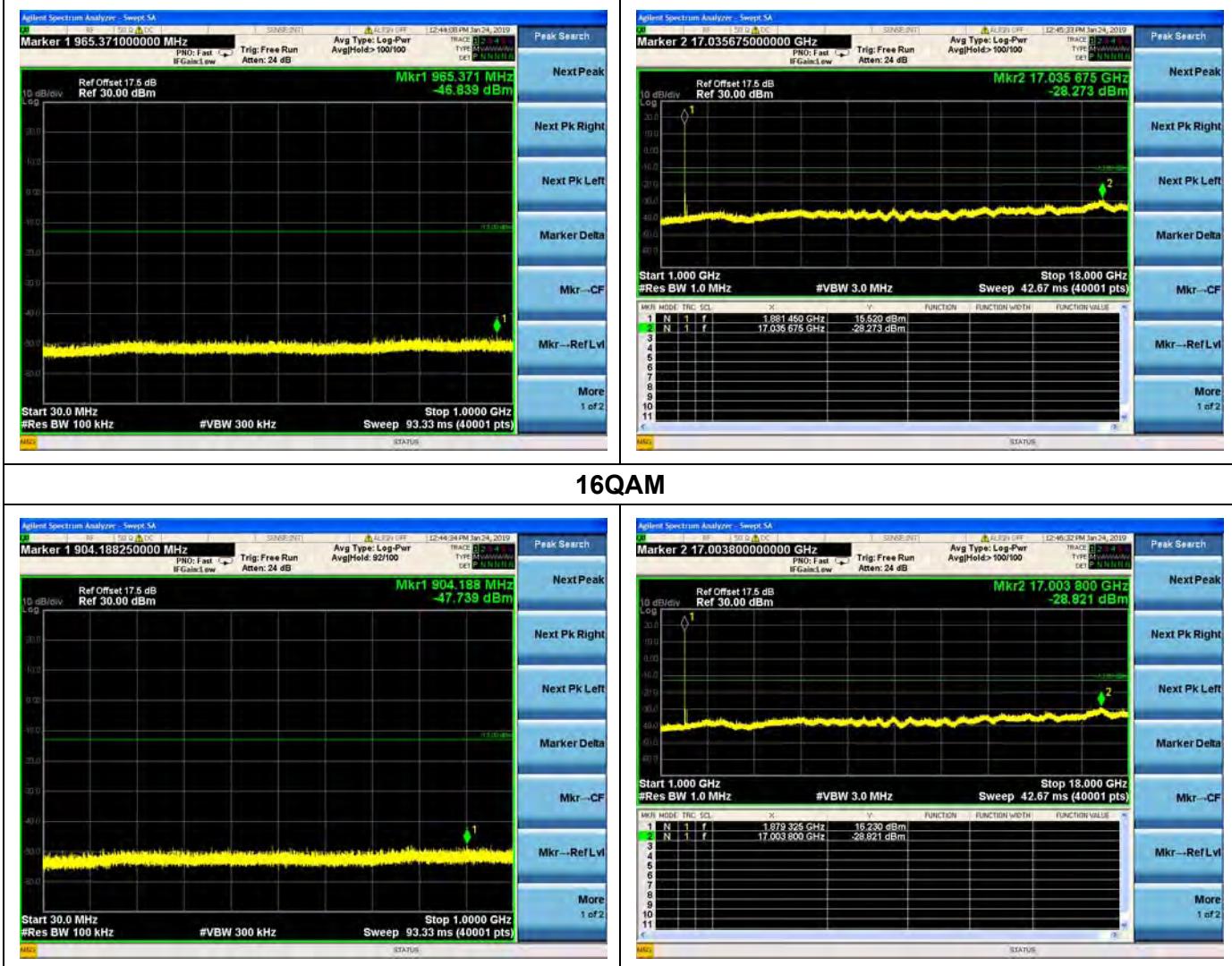
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## 16QAM



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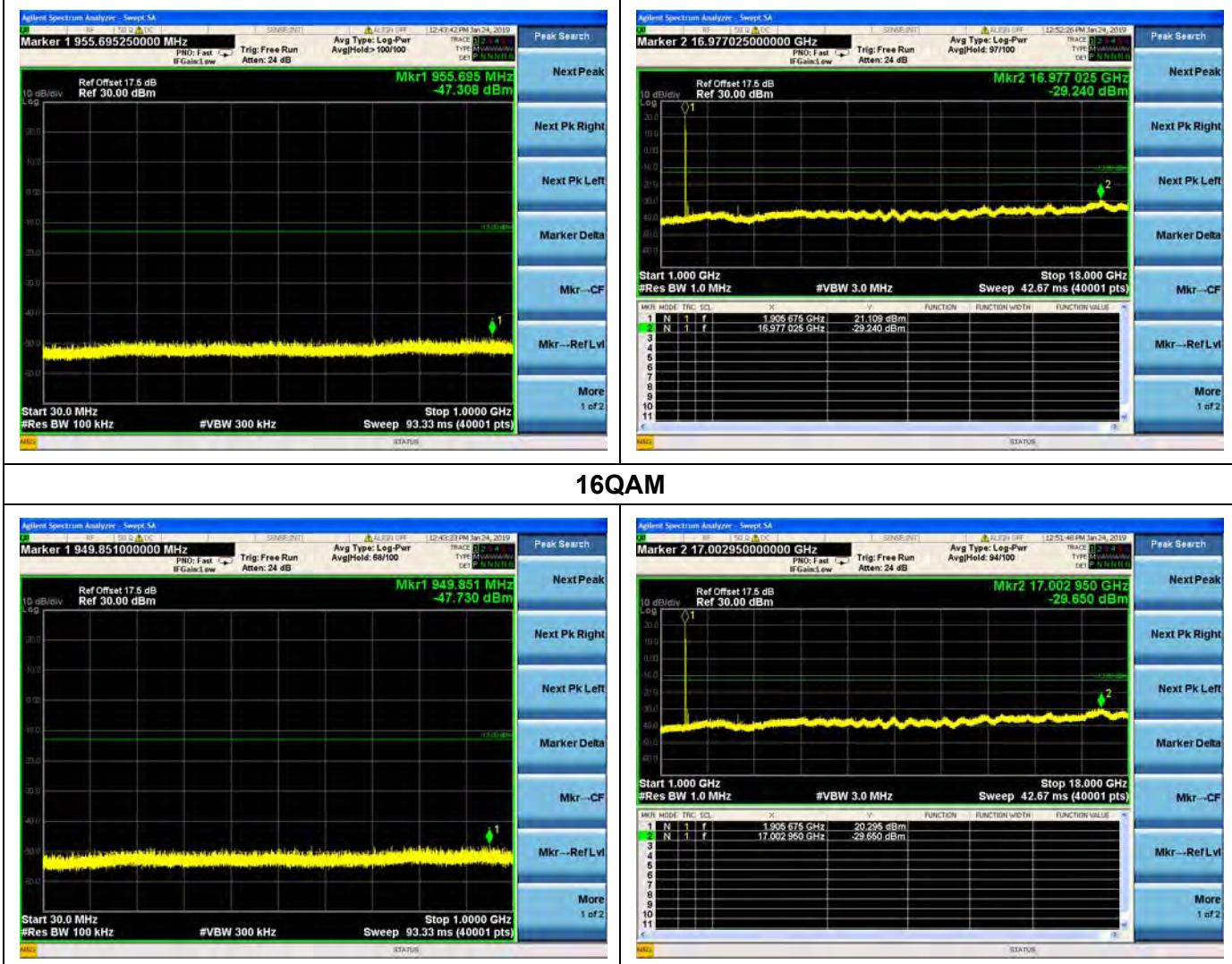
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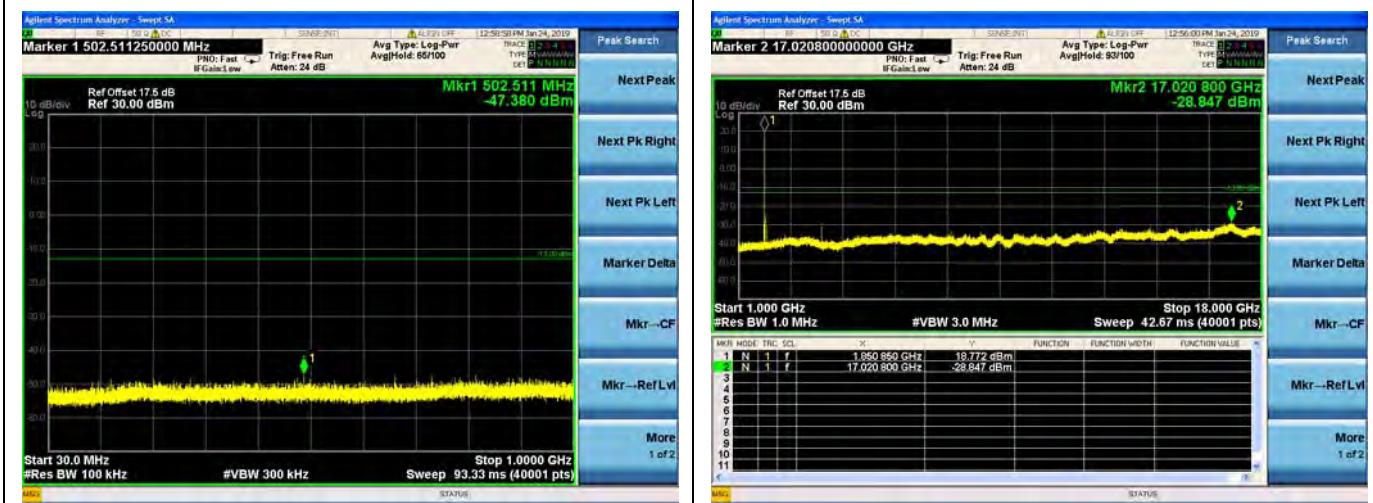
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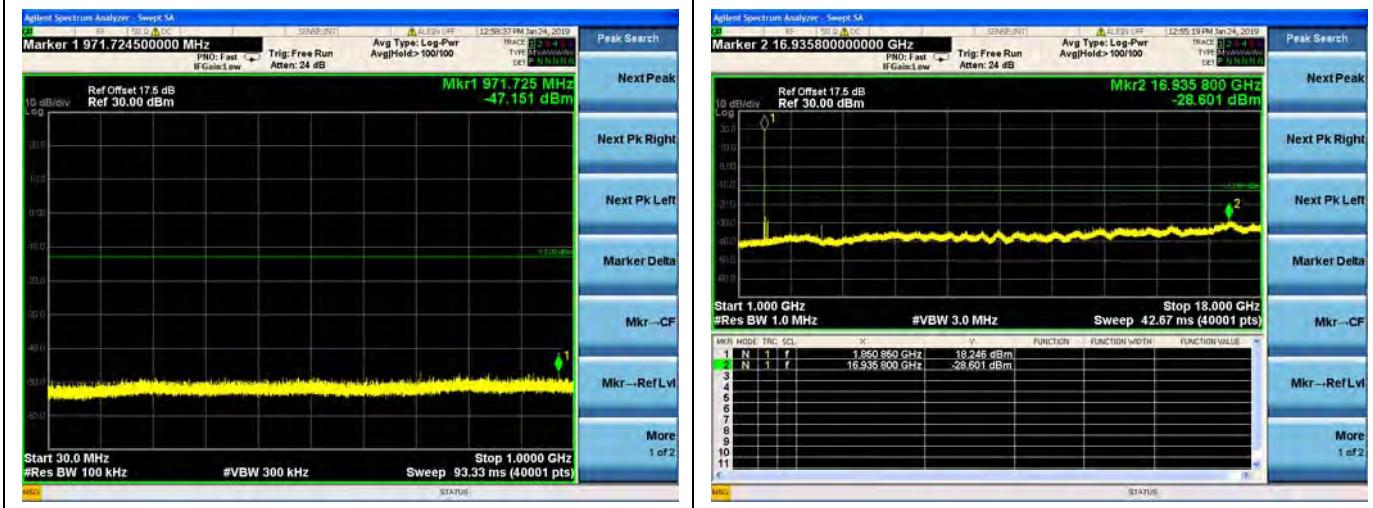


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## 16QAM



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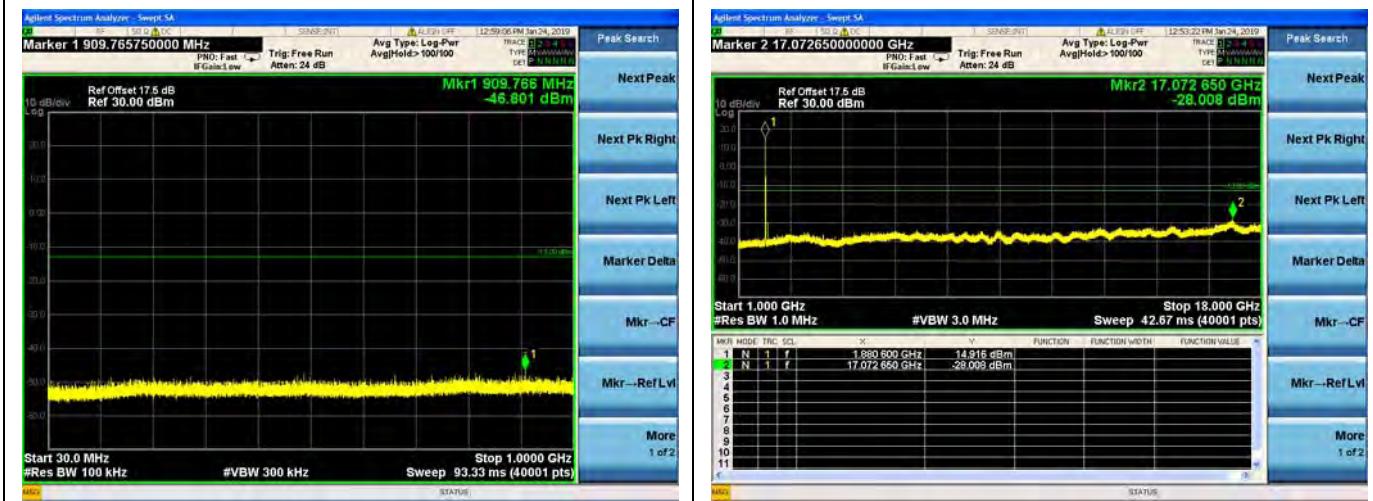
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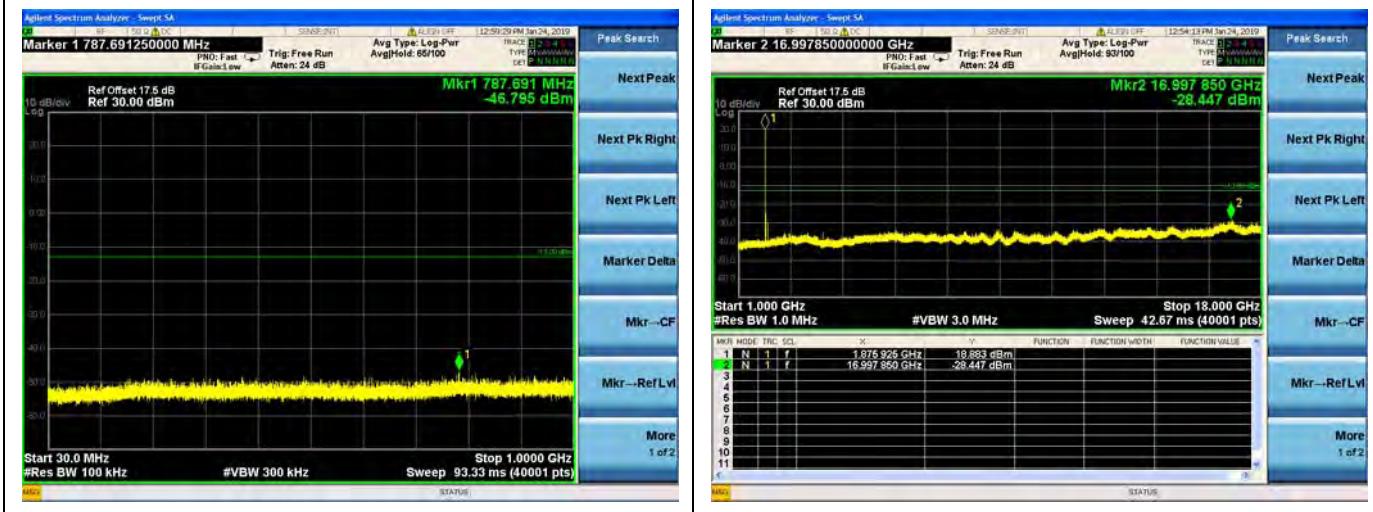


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## 16QAM



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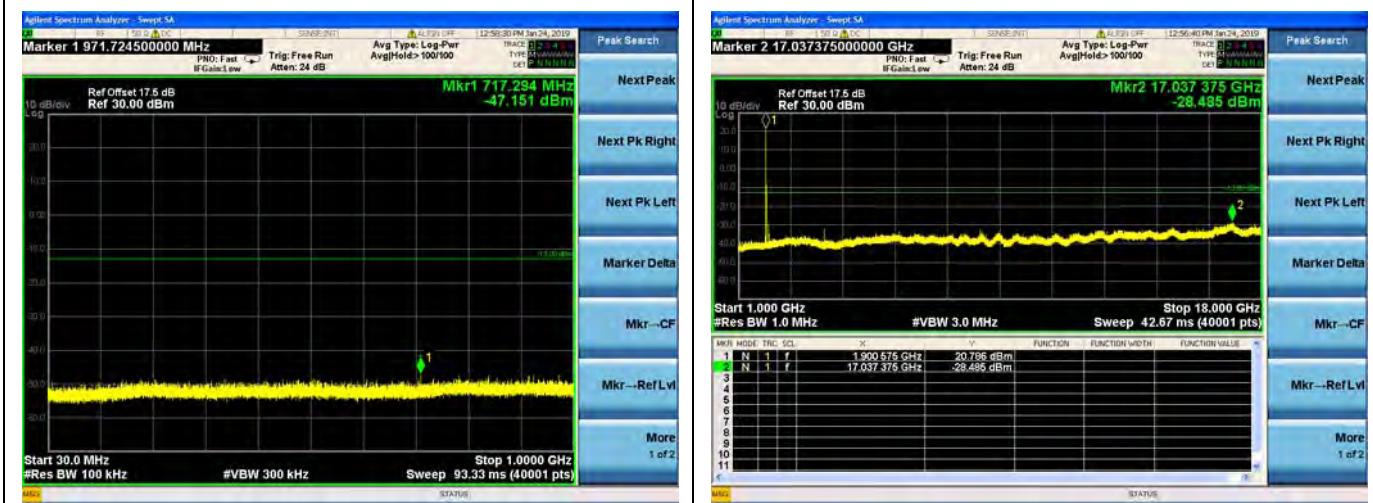
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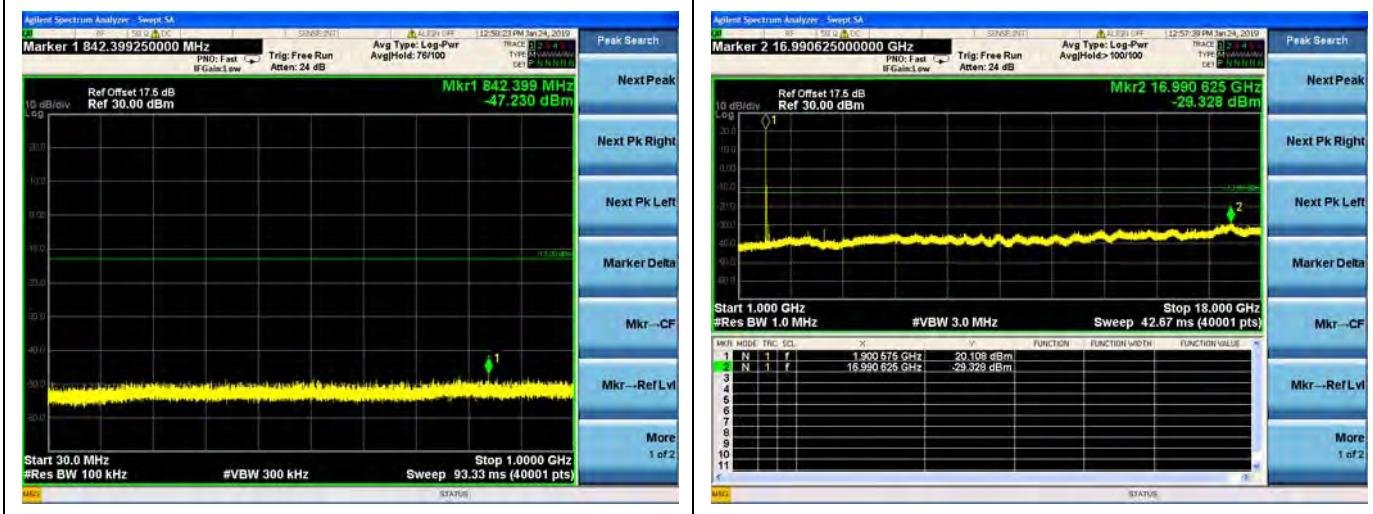


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## LTE Band 2 10MHz BW High Channel QPSK



## 16QAM



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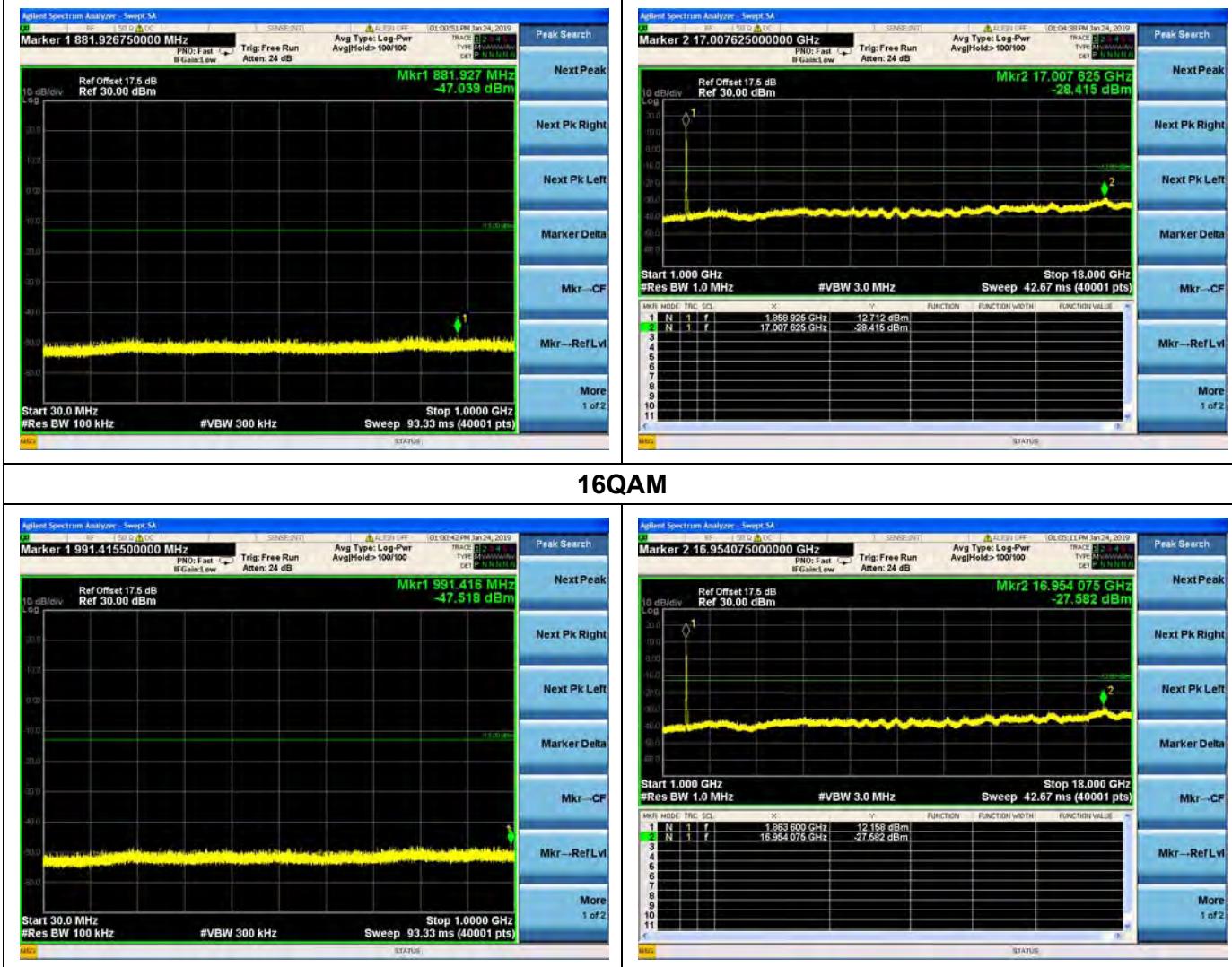
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## LTE Band 2    15MHz BW    Low Channel QPSK



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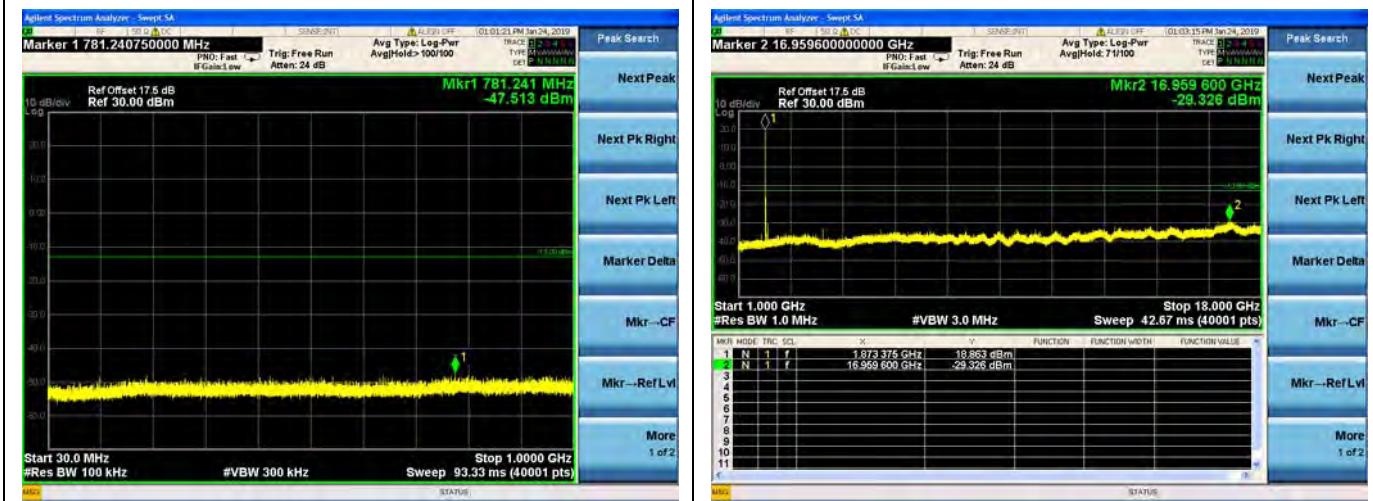
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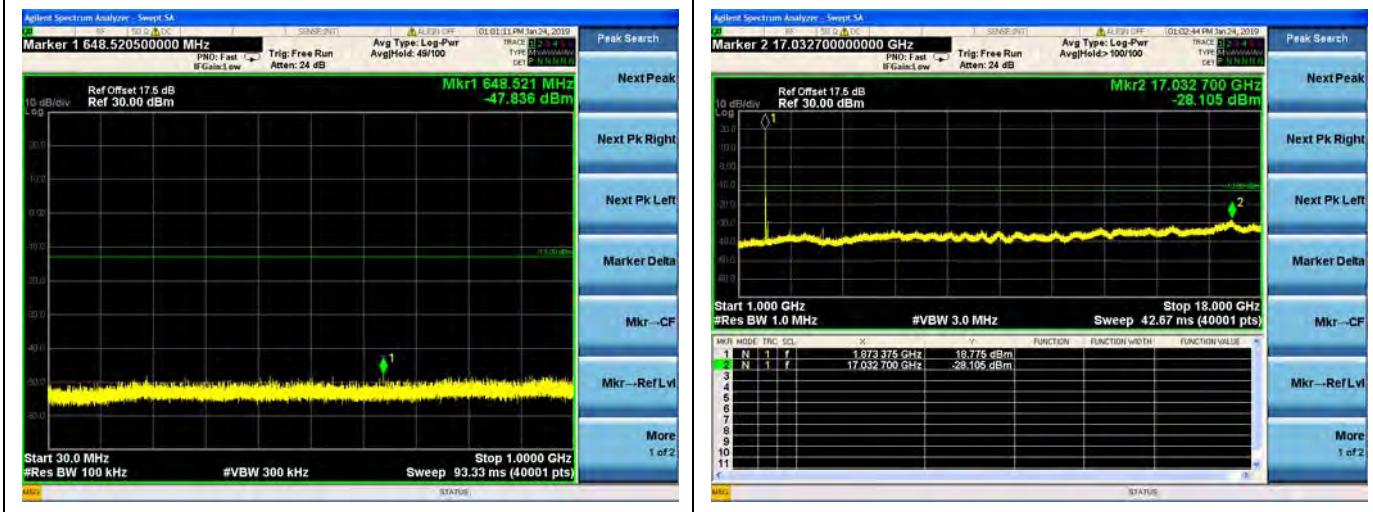


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## LTE Band 2 15MHz BW Mid Channel QPSK



## 16QAM



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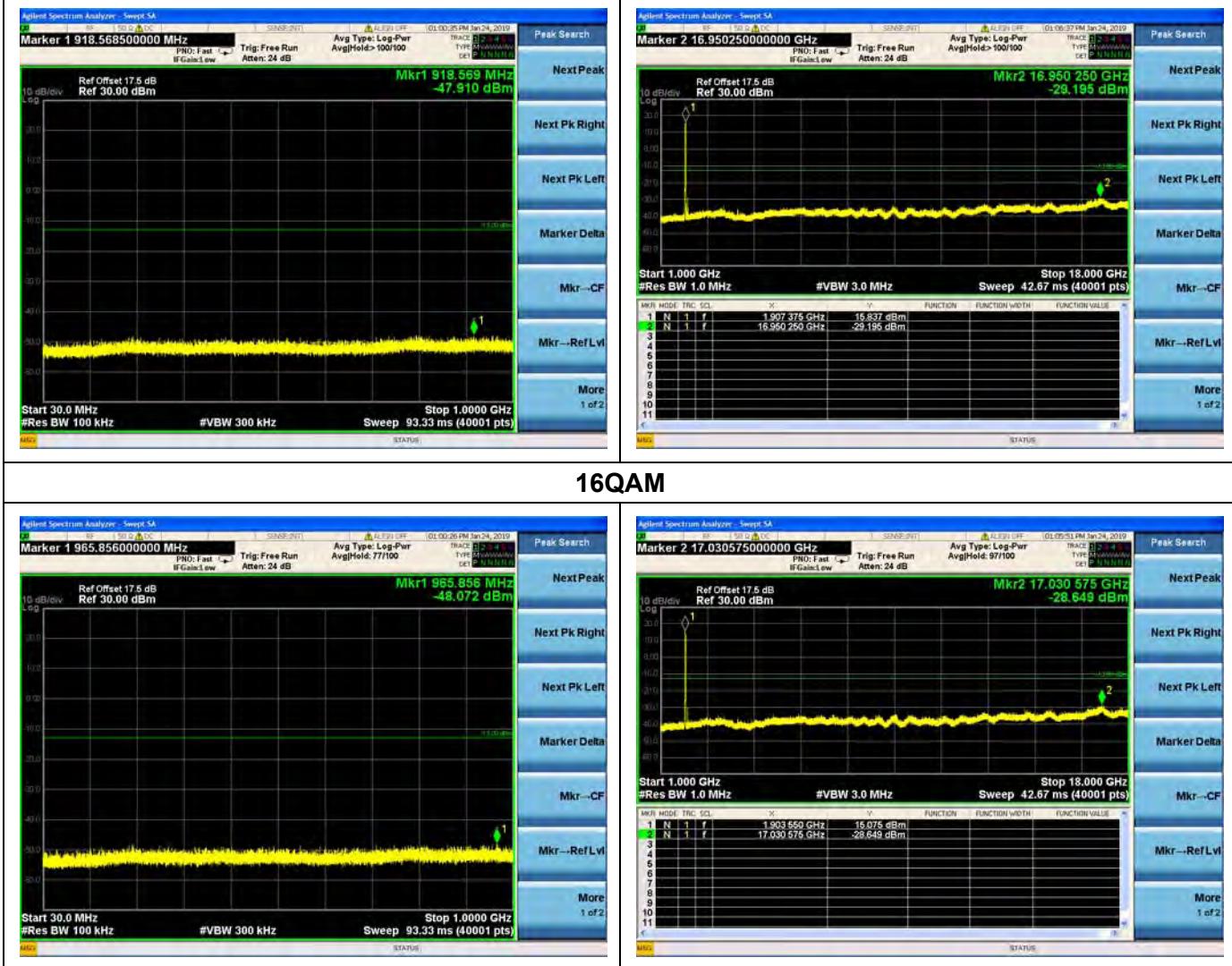
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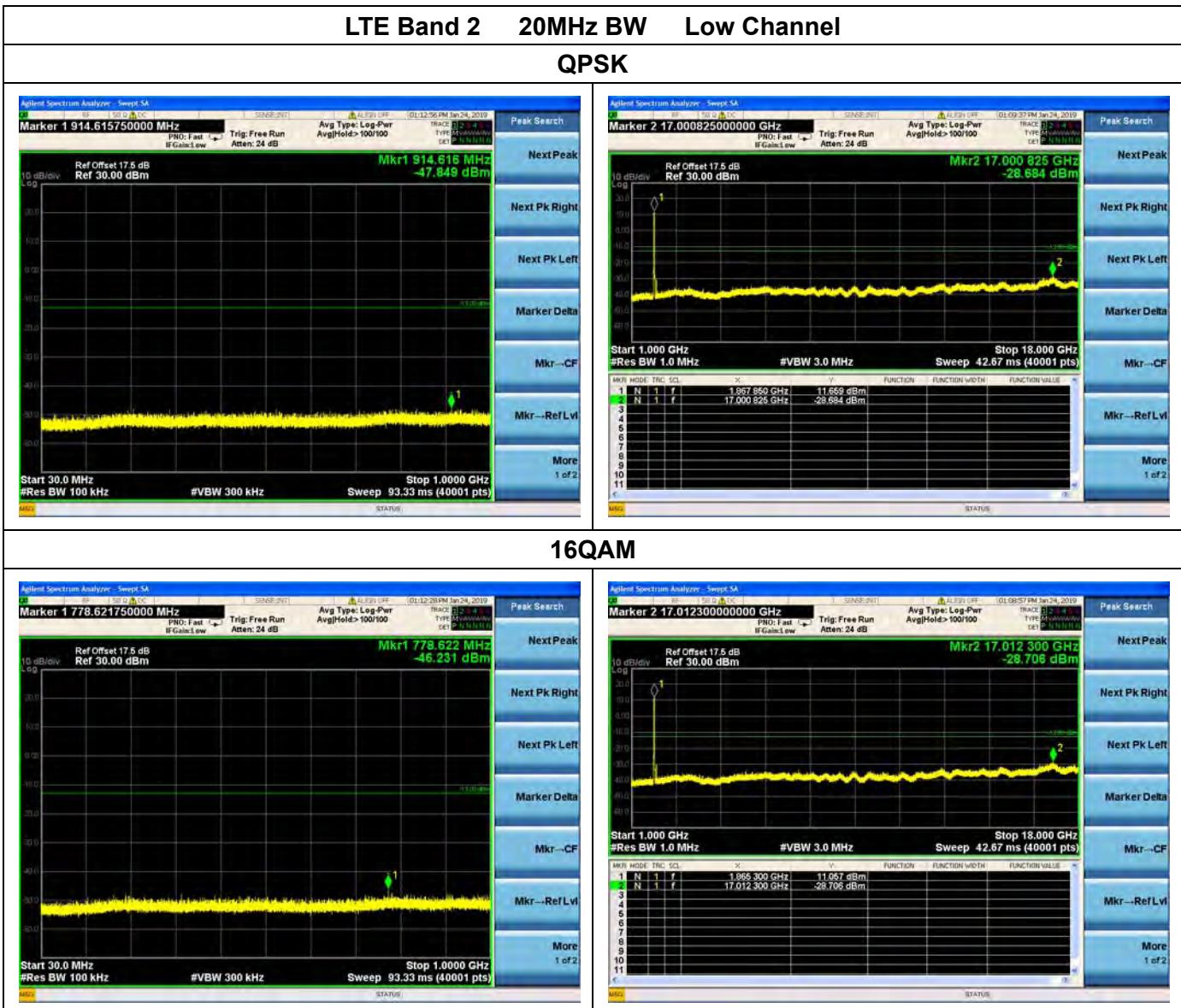
## LTE Band 2 15MHz BW High Channel QPSK



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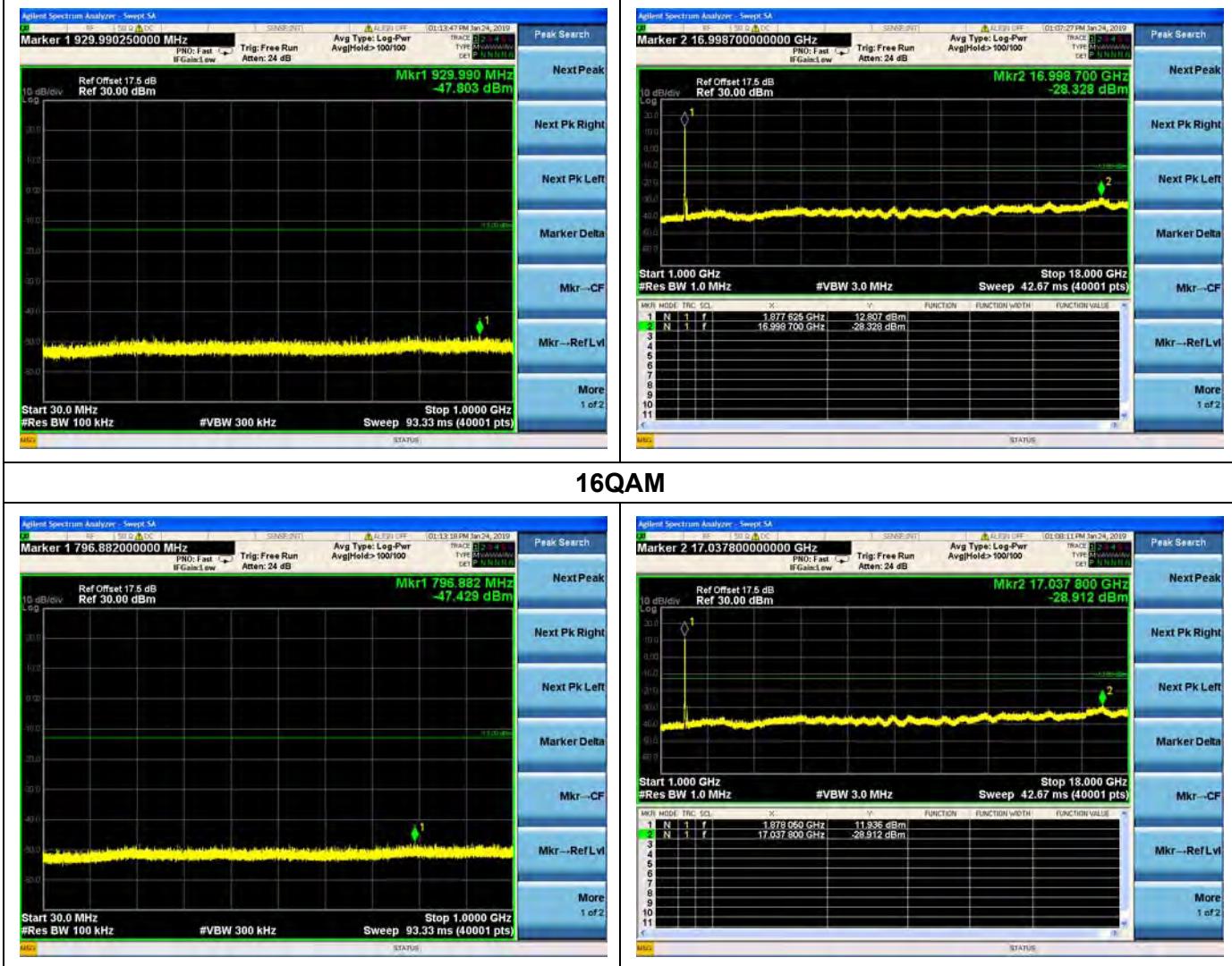
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## LTE Band 2 20MHz BW Mid Channel QPSK



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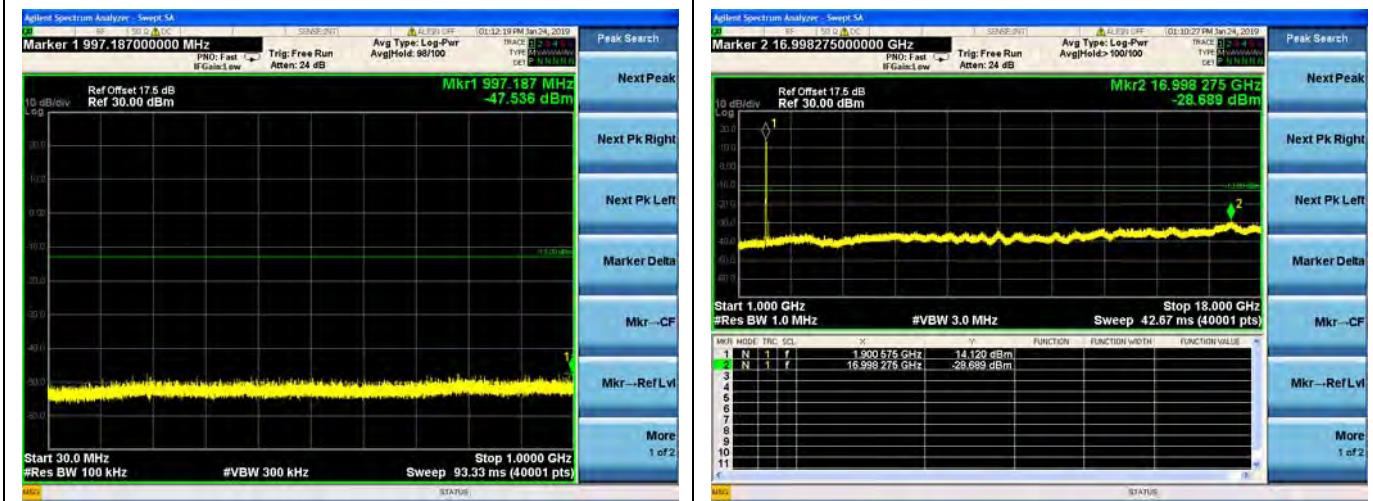
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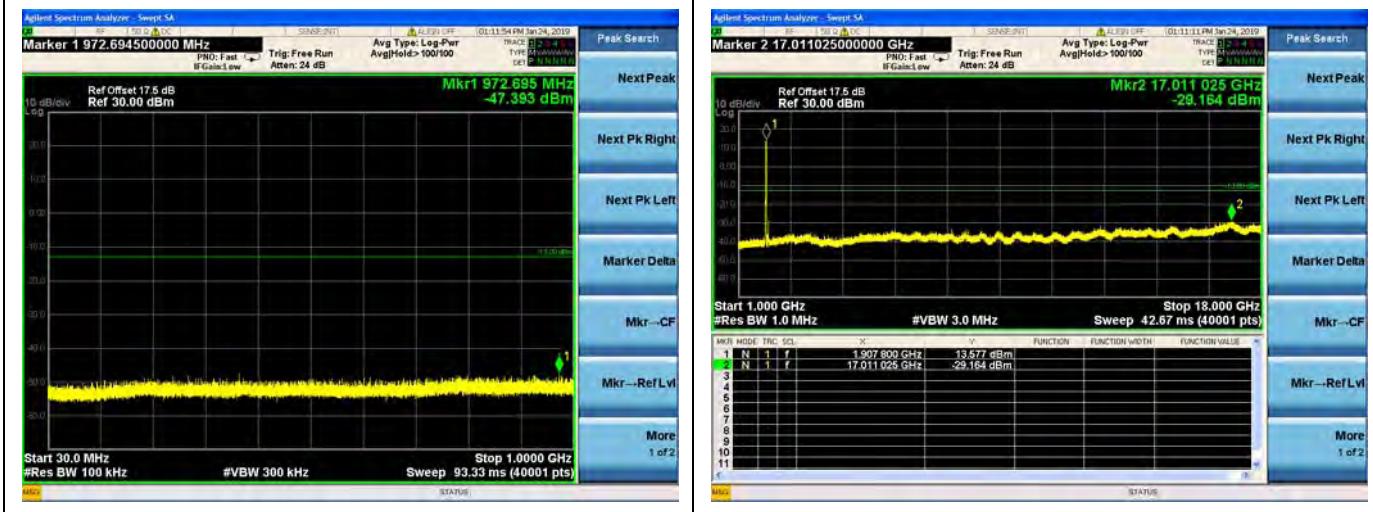


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## LTE Band 2 20MHz BW High Channel QPSK



## 16QAM



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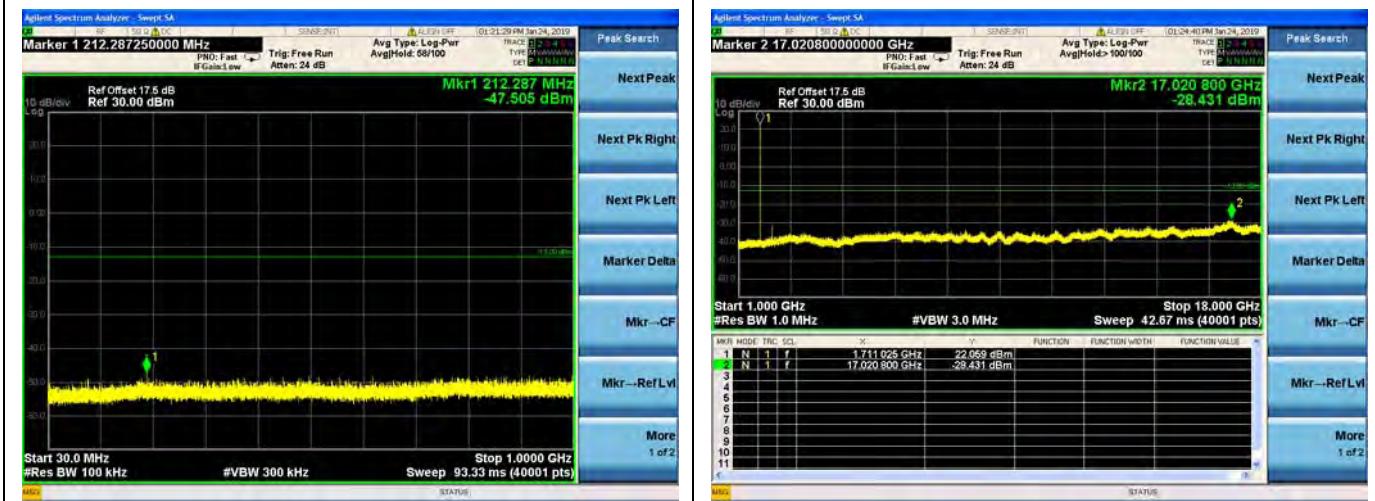
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## LTE Band 4 1.4MHz BW Low Channel QPSK



## 16QAM



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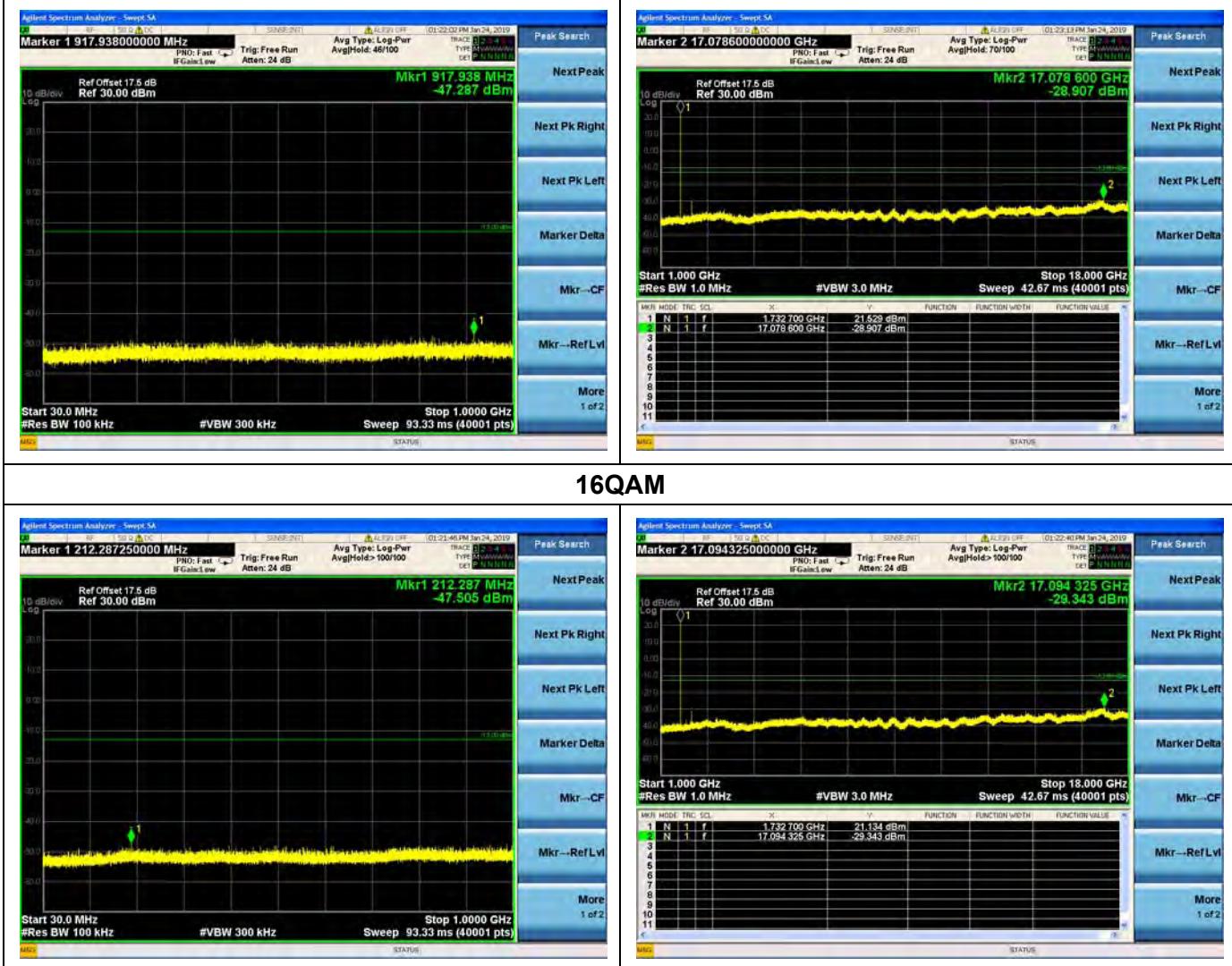
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## LTE Band 4 1.4MHz BW Mid Channel QPSK



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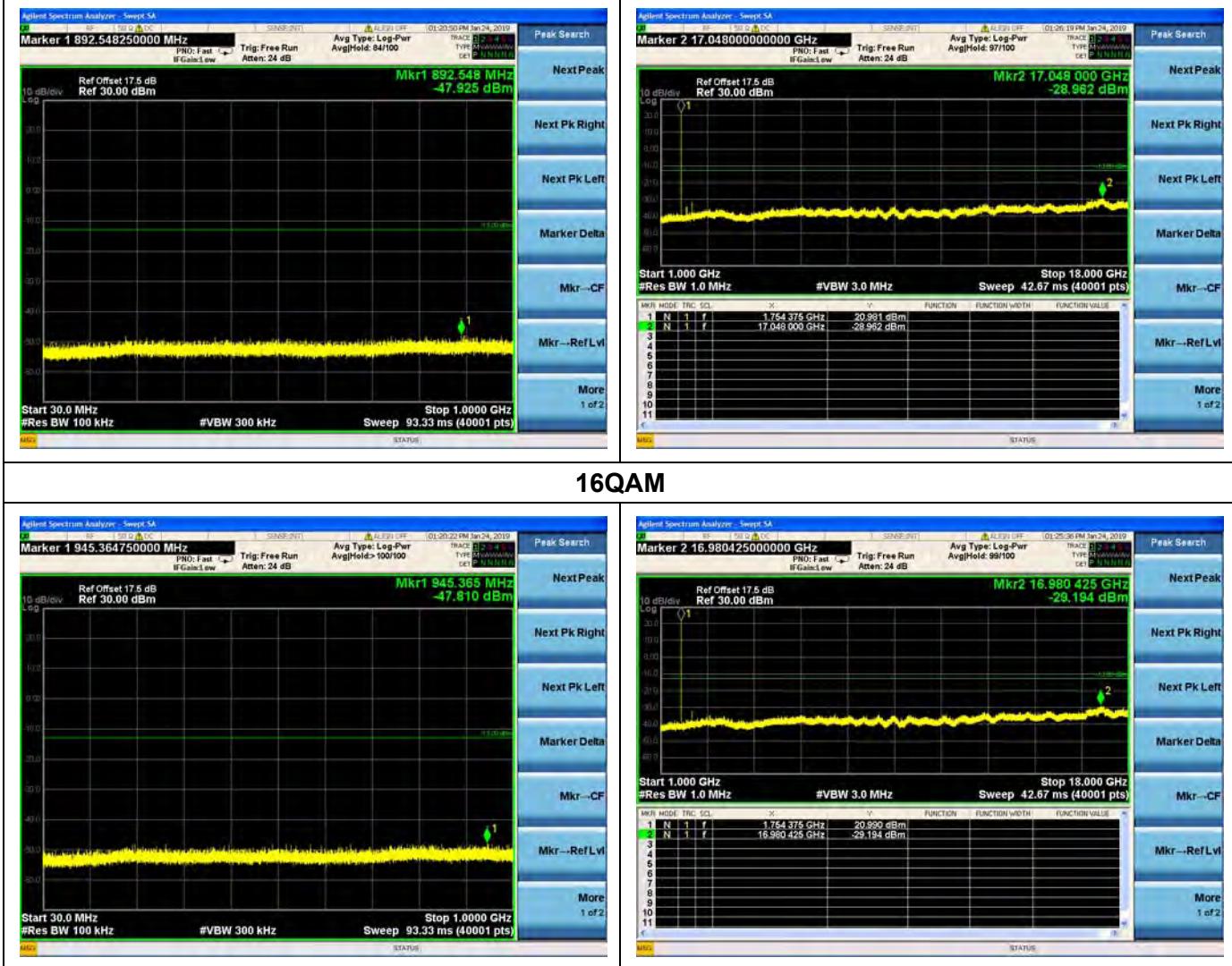
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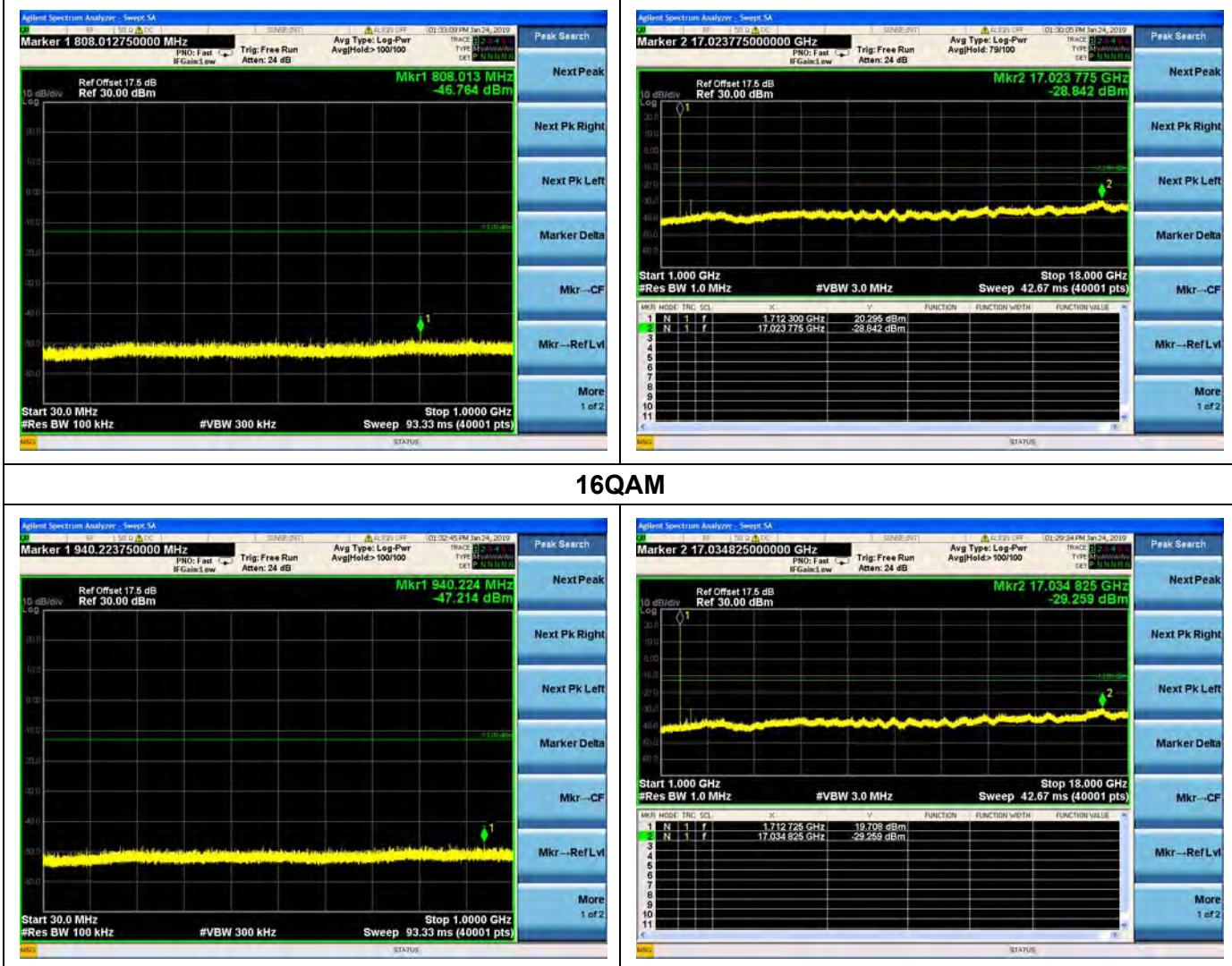
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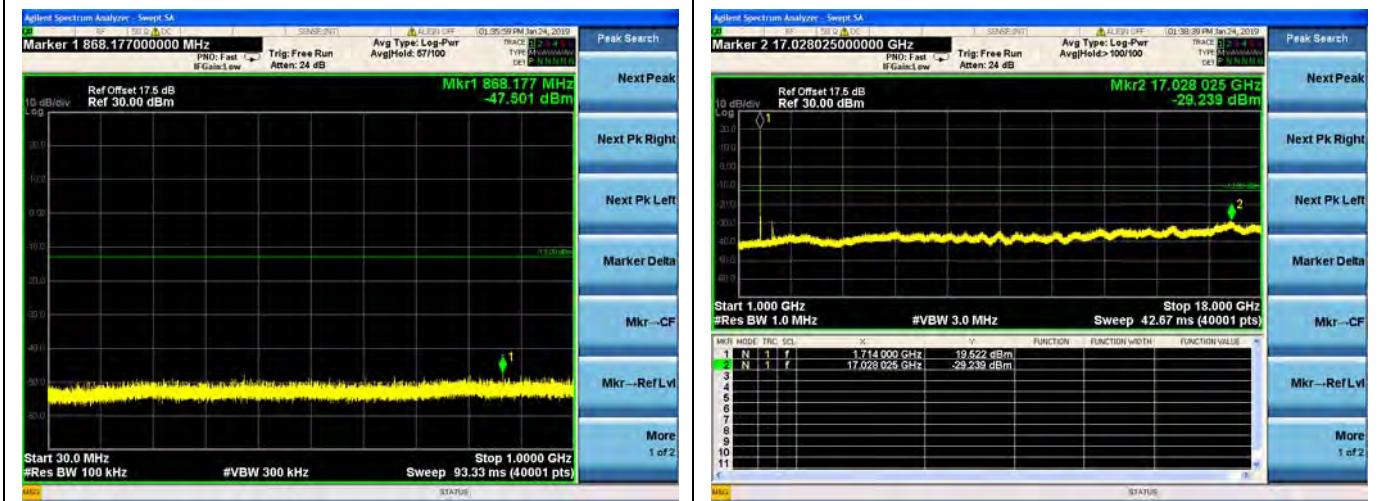
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## LTE Band 4 5MHz BW Low Channel QPSK



## 16QAM



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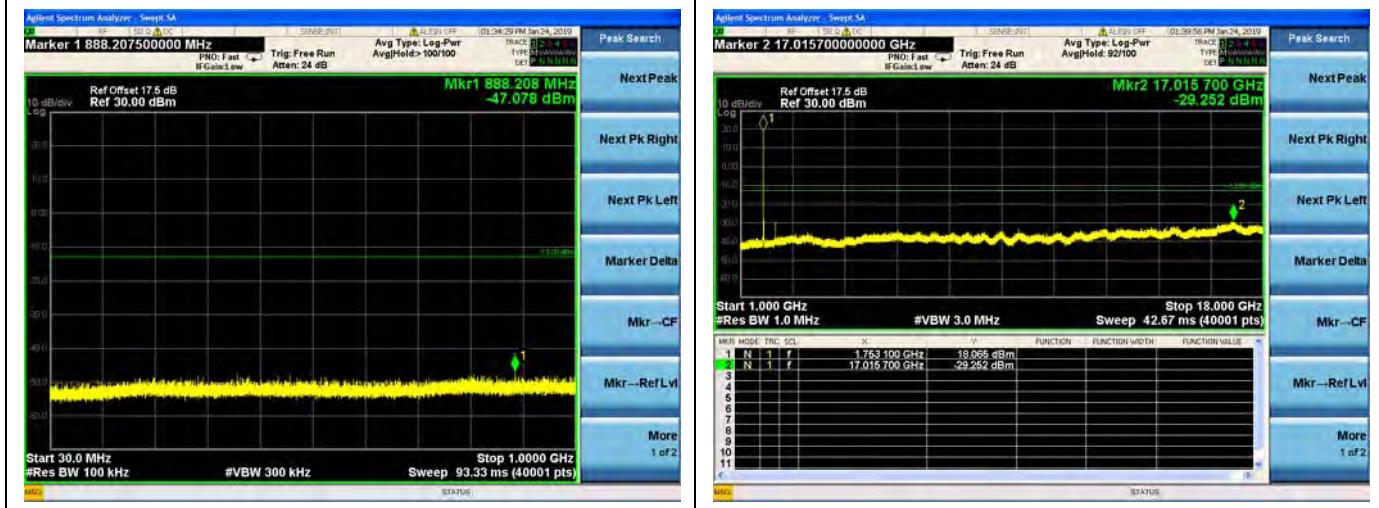


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## 16QAM



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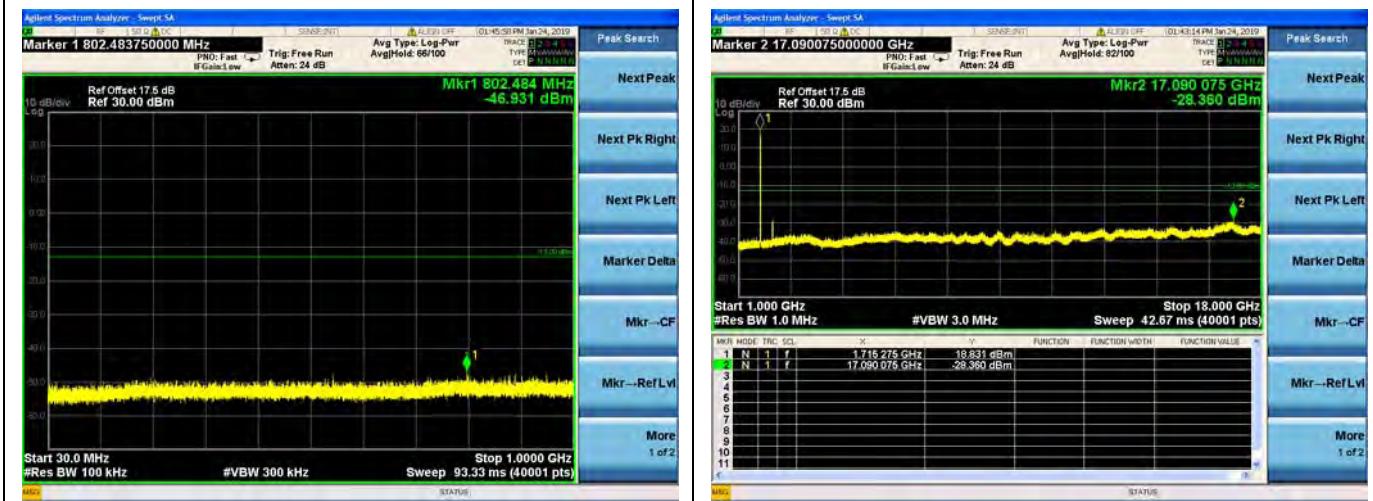
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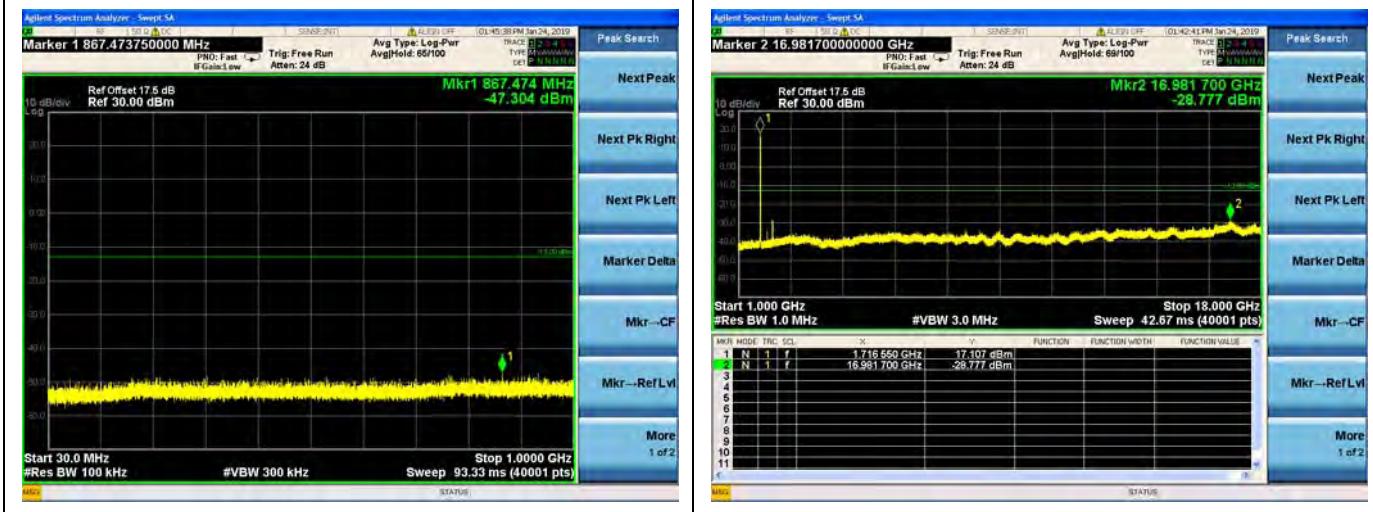


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## 16QAM



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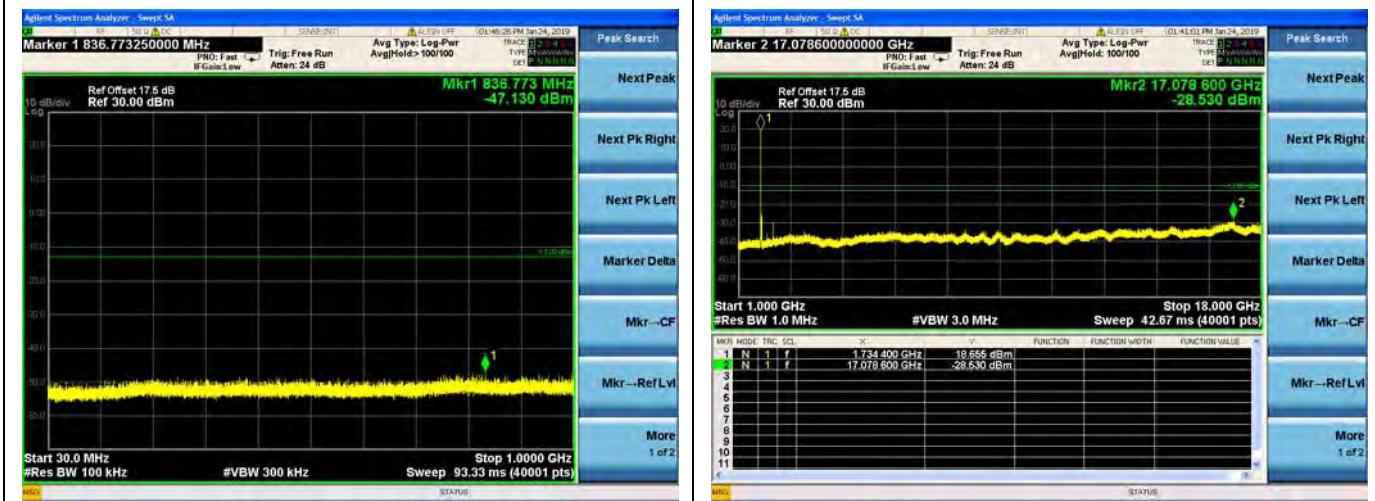
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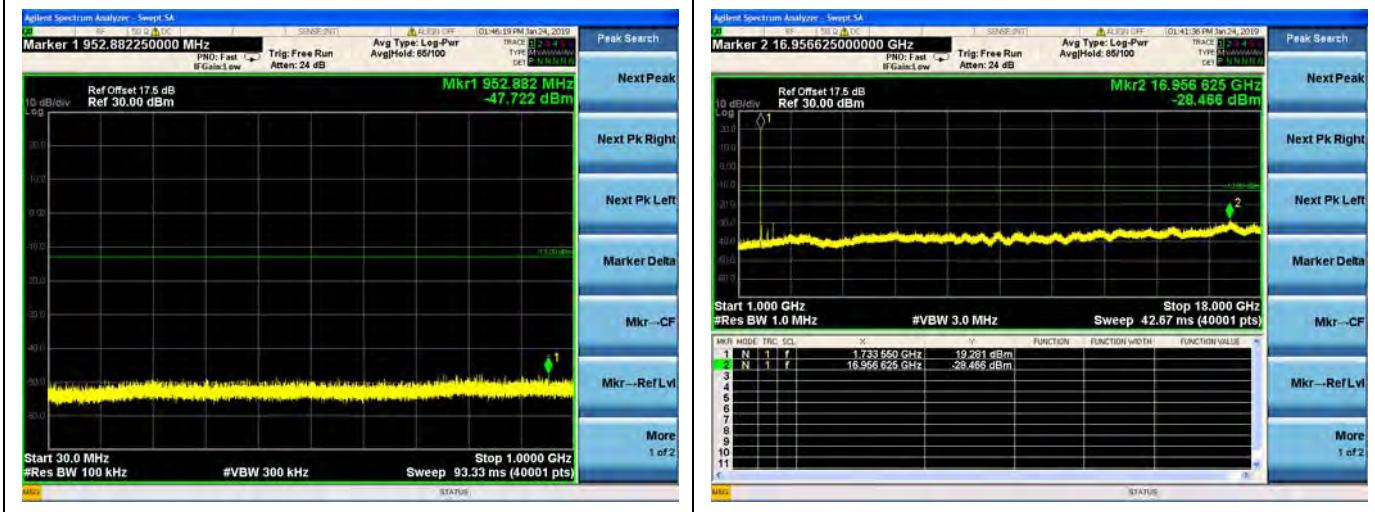


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## 16QAM



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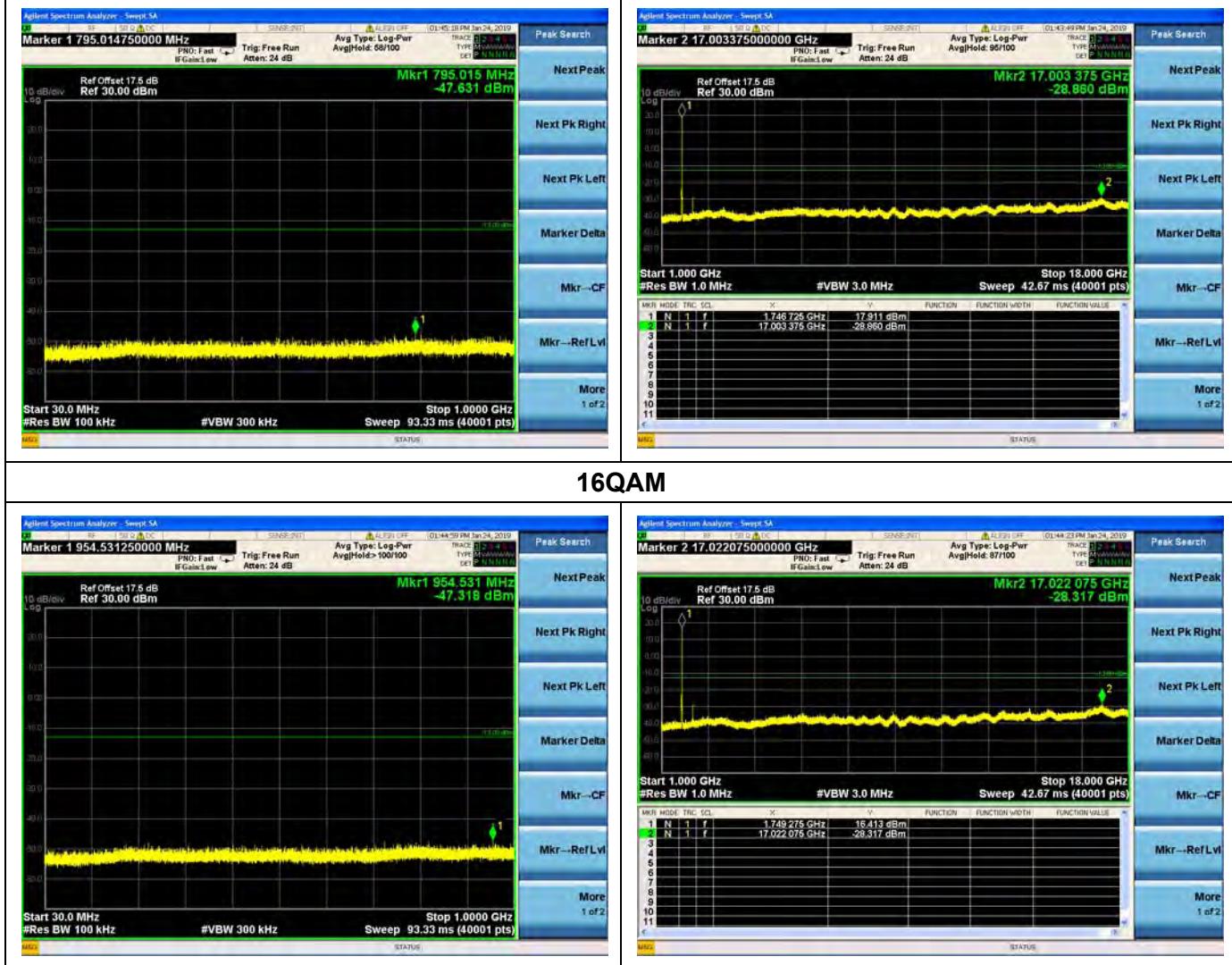
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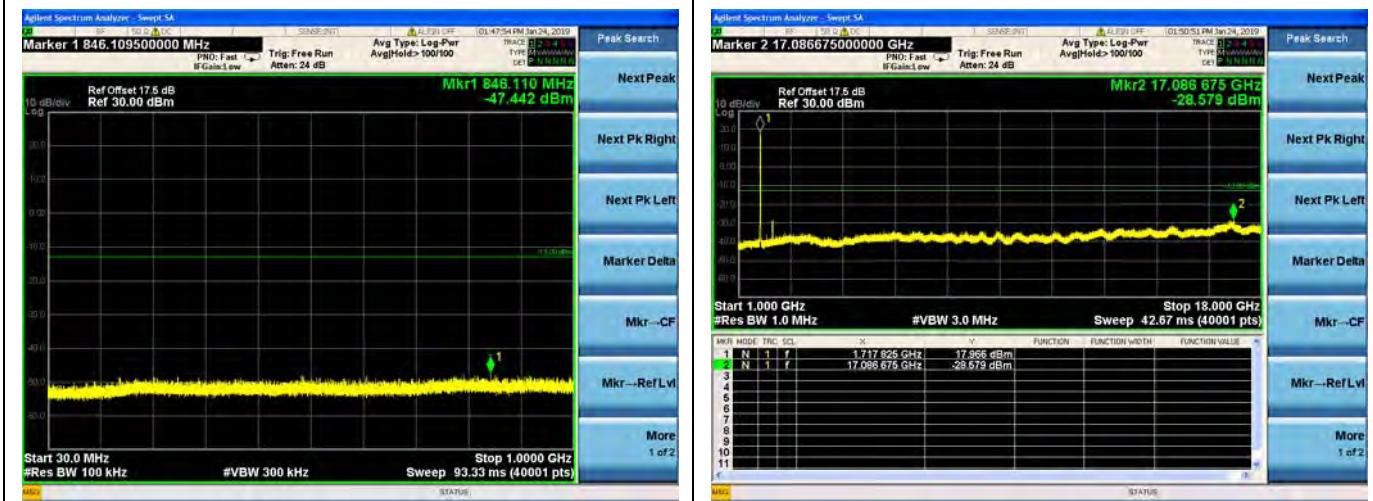
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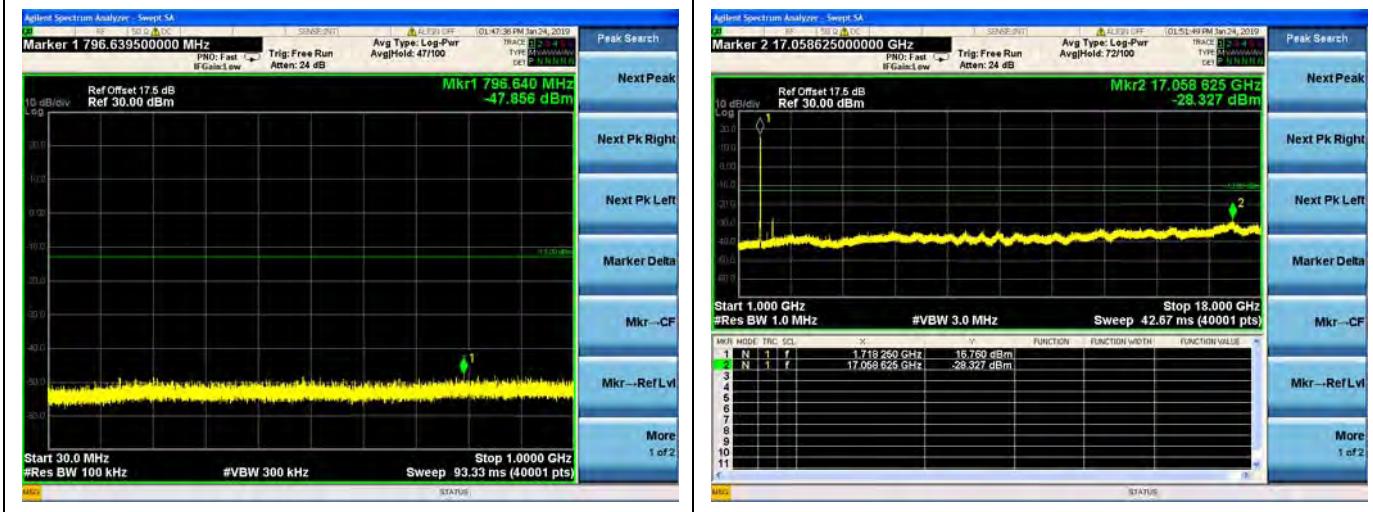


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## 16QAM



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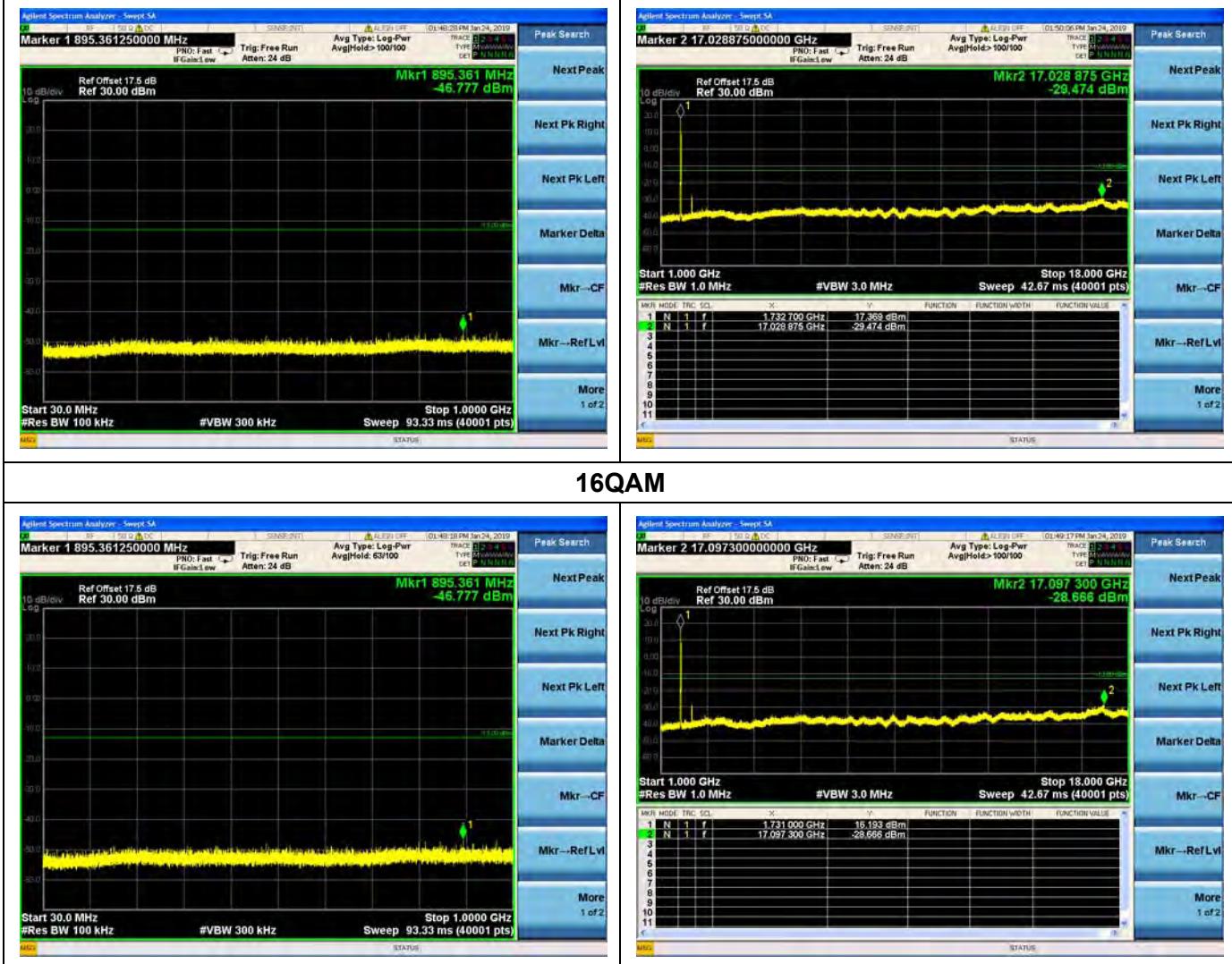
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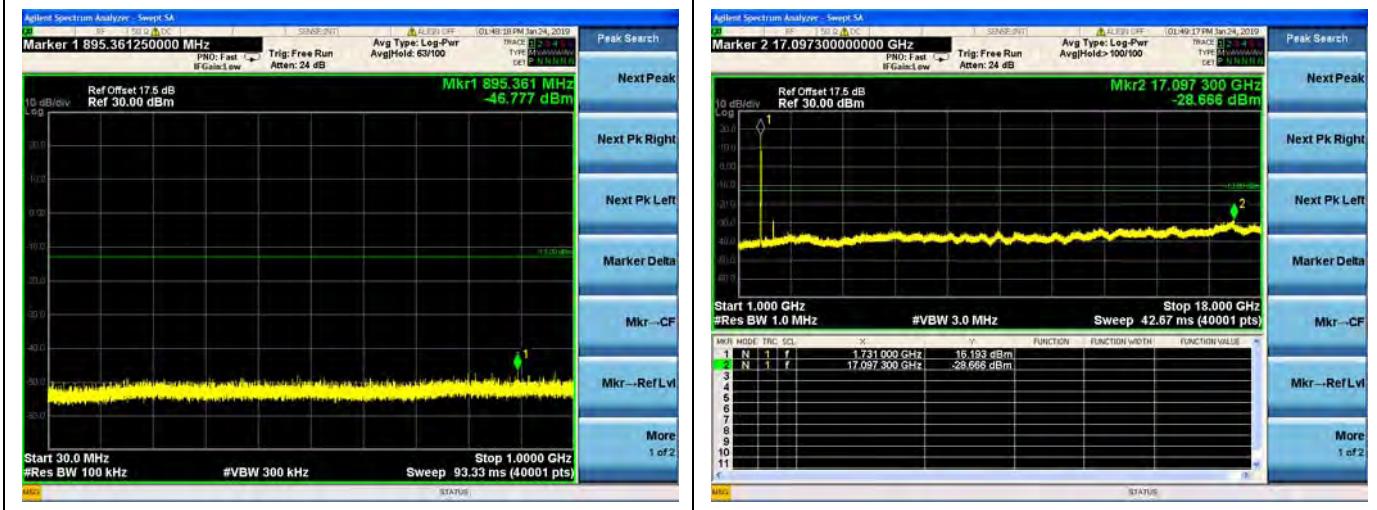


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## 16QAM



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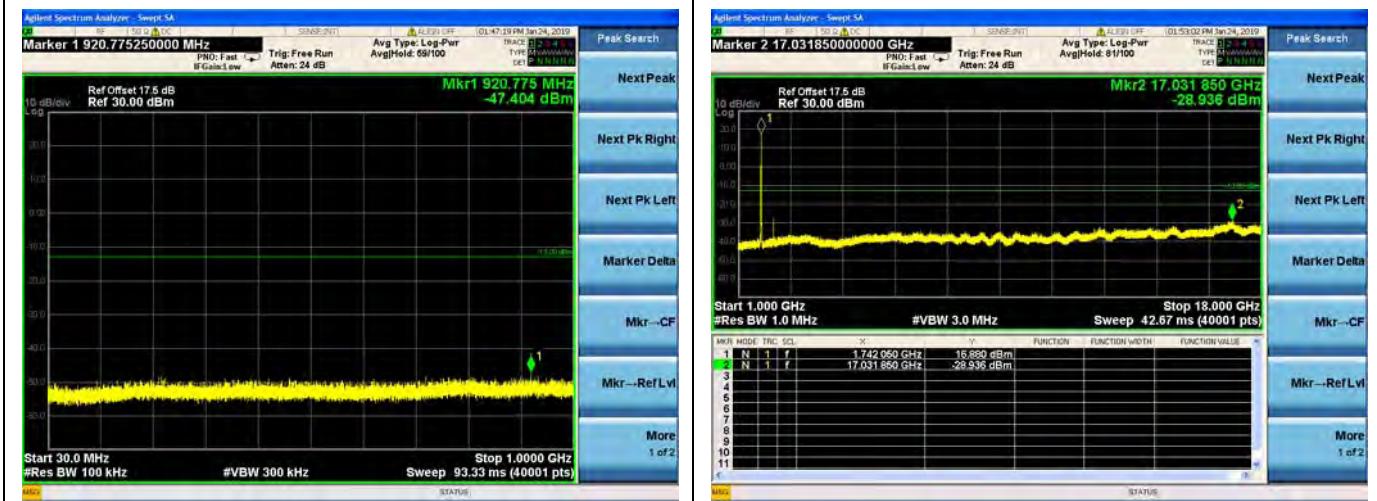
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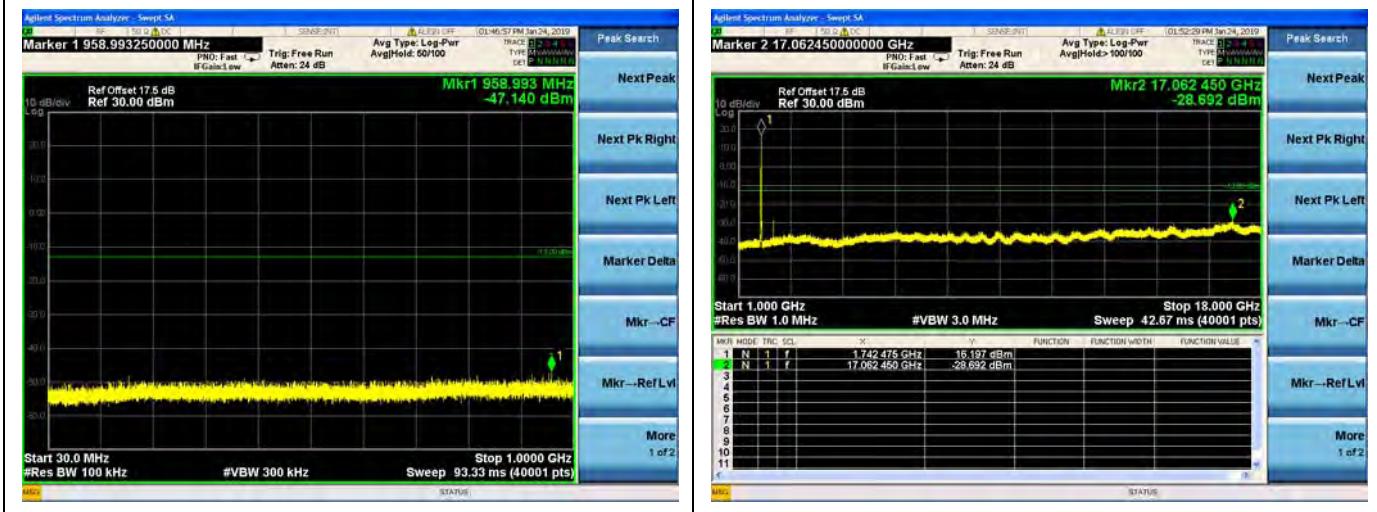


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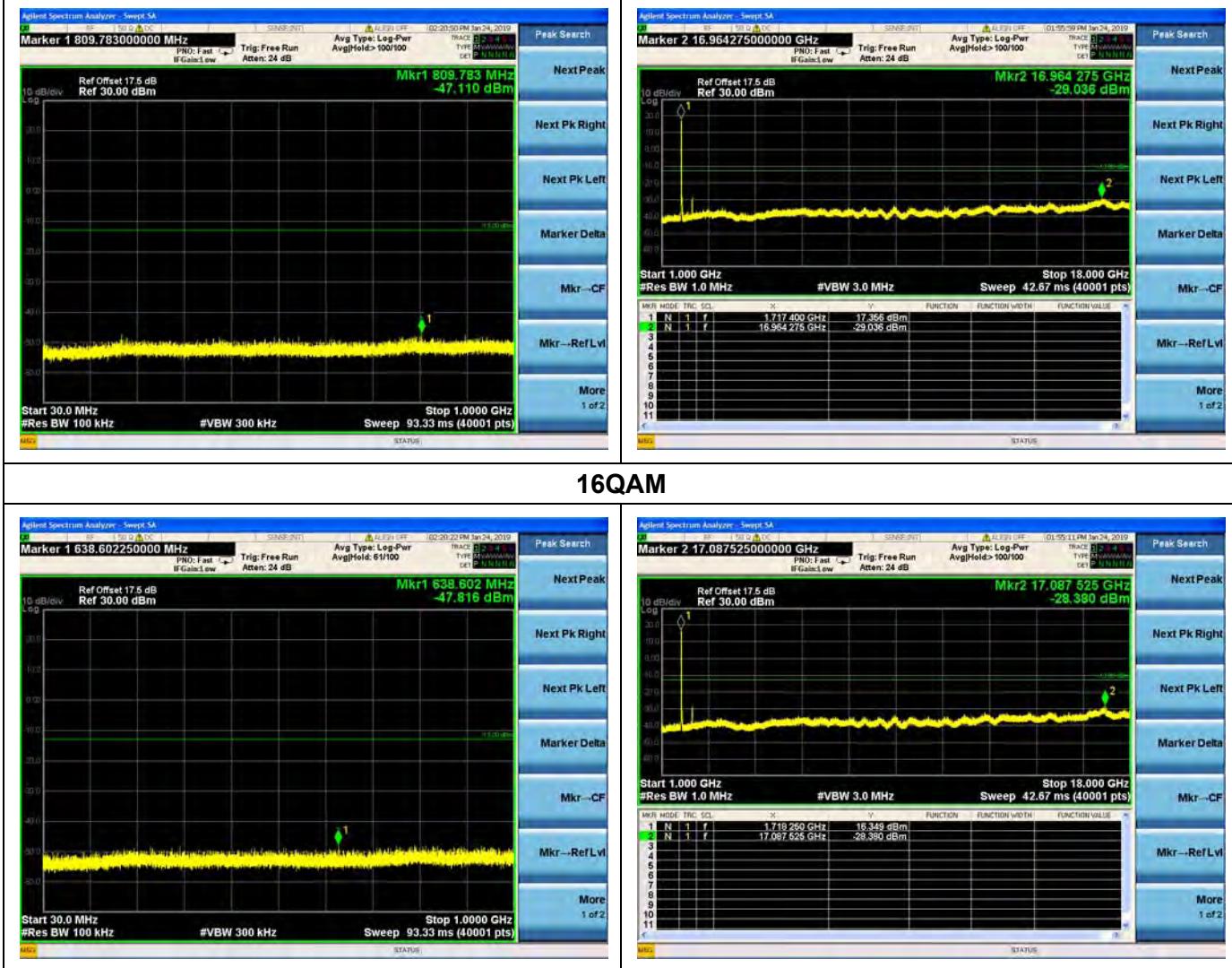


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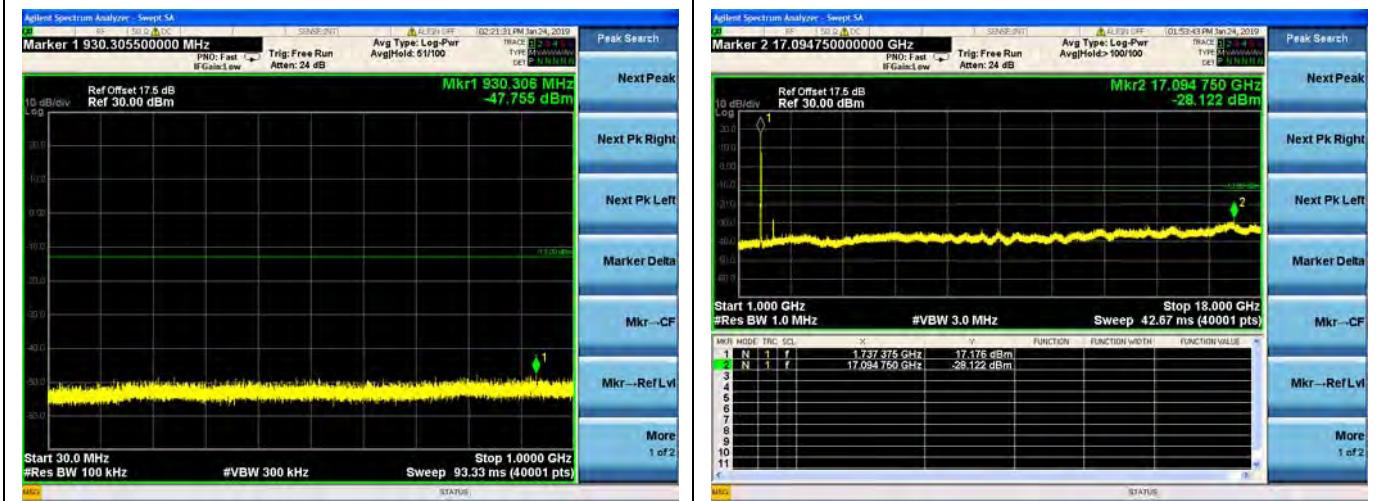
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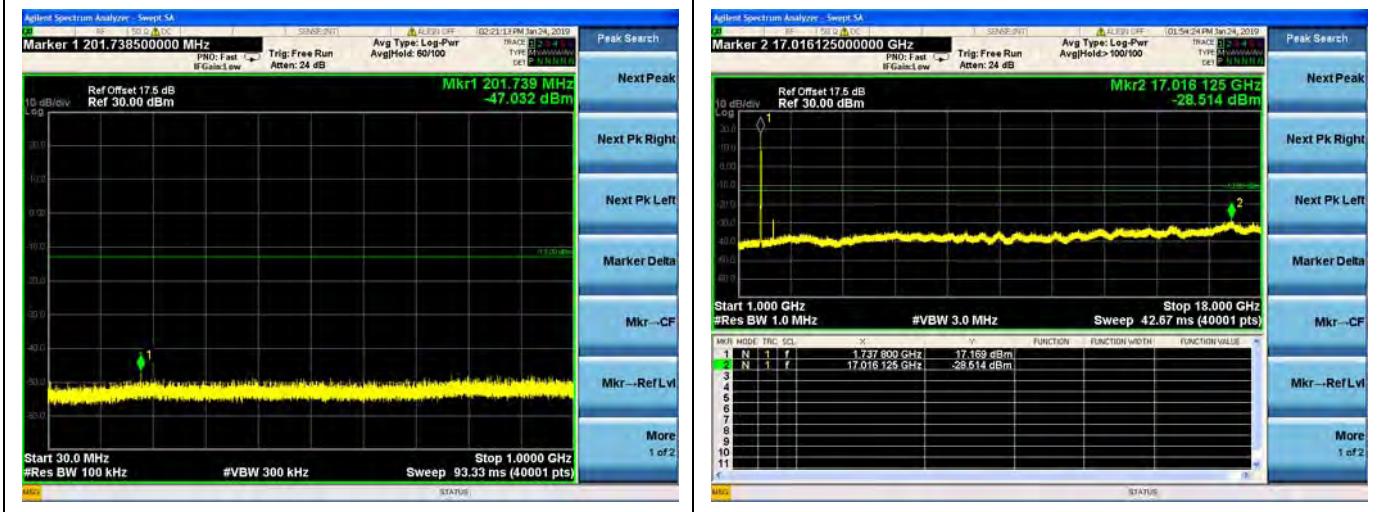


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## LTE Band 4 20MHz BW Mid Channel QPSK



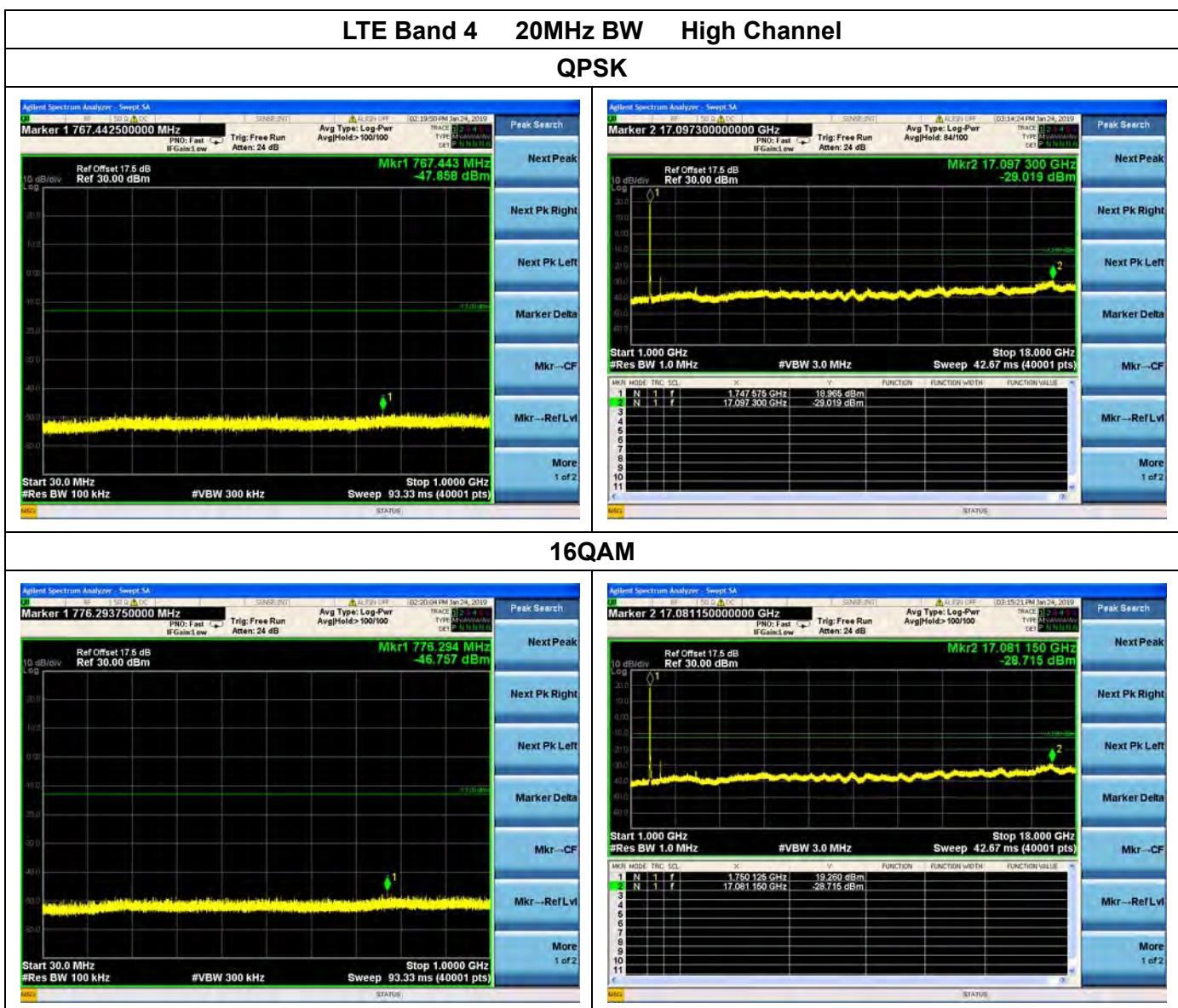
## 16QAM



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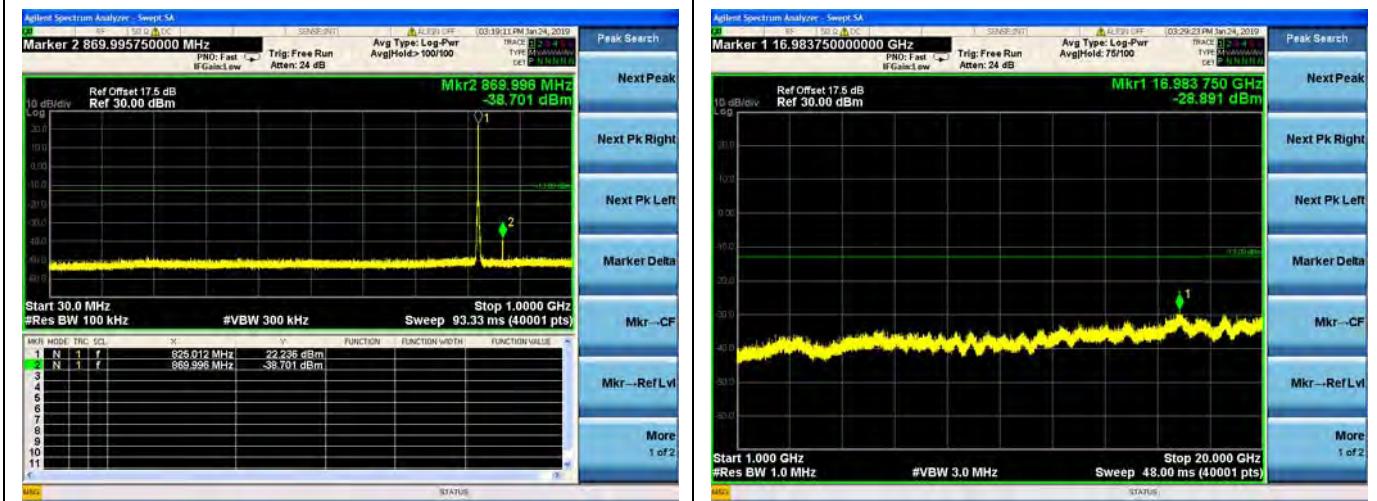
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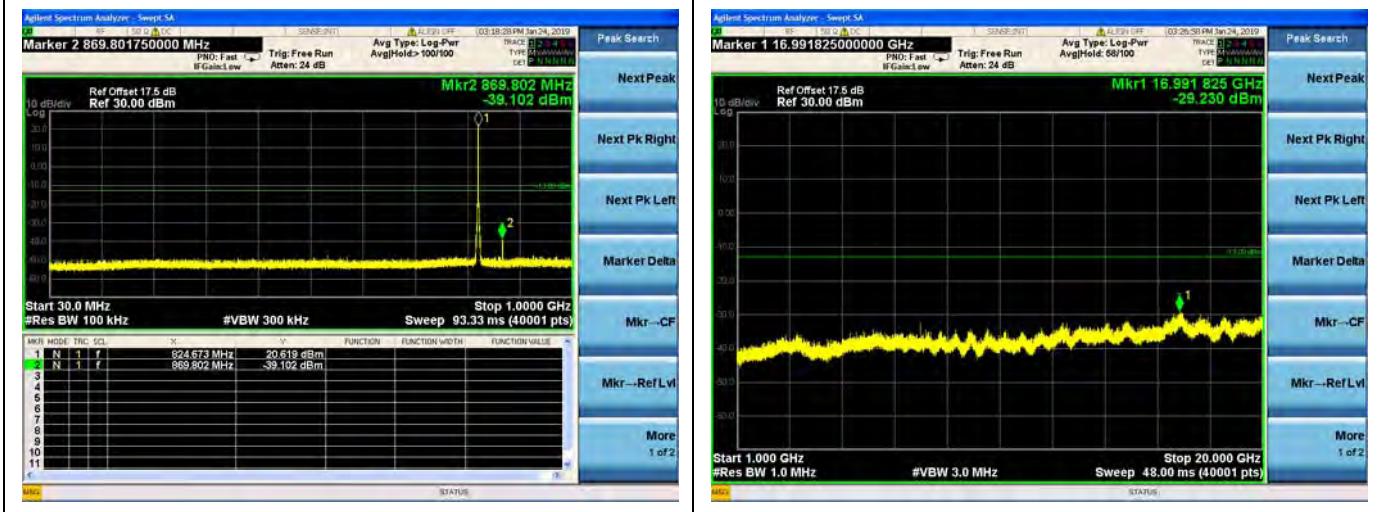


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## LTE Band 5 1.4MHz BW Low Channel QPSK



## 16QAM



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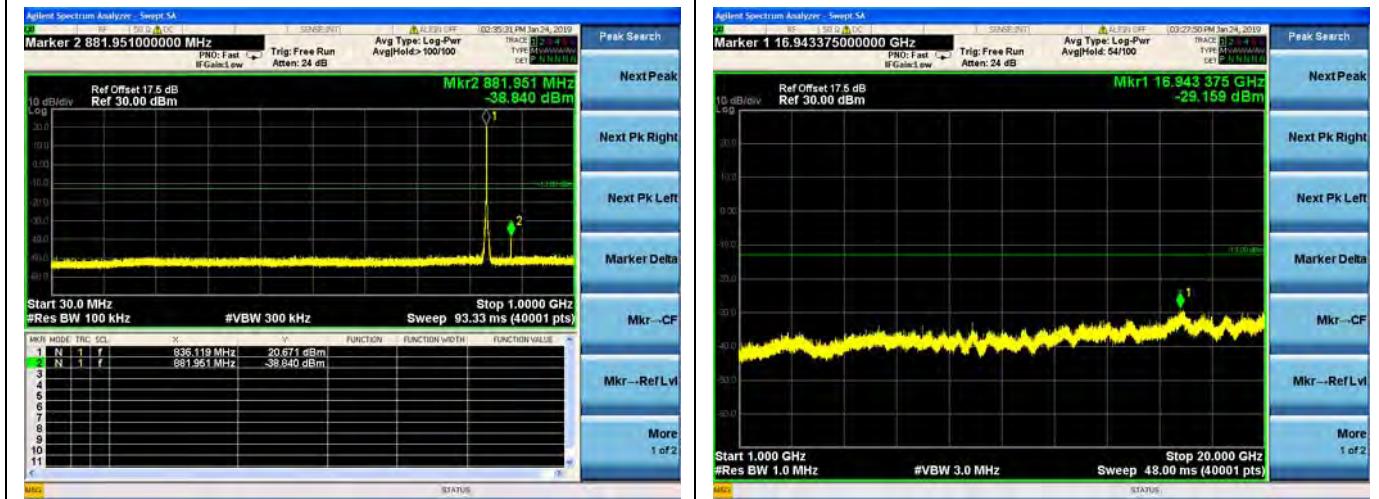
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Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555 Fax: 86-755-36698525  
Http://www.morlab.cn E-mail: service@morlab.cn

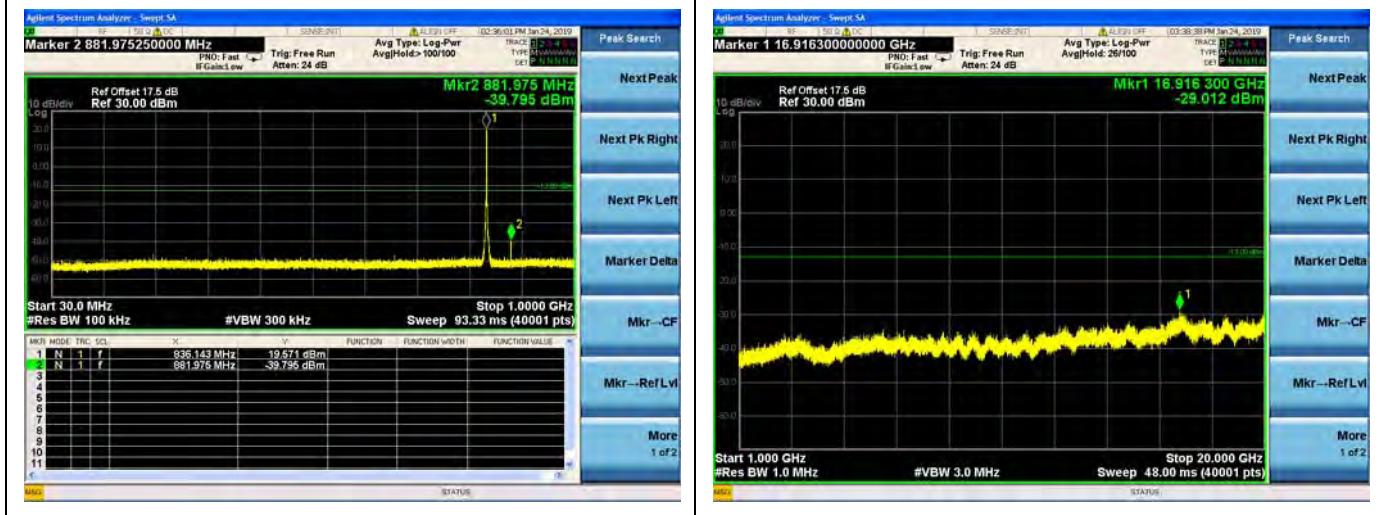


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## LTE Band 5 1.4MHz BW Mid Channel QPSK



## 16QAM



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SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.  
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,  
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555 Fax: 86-755-36698525  
Http://www.morlab.cn E-mail: service@morlab.cn