



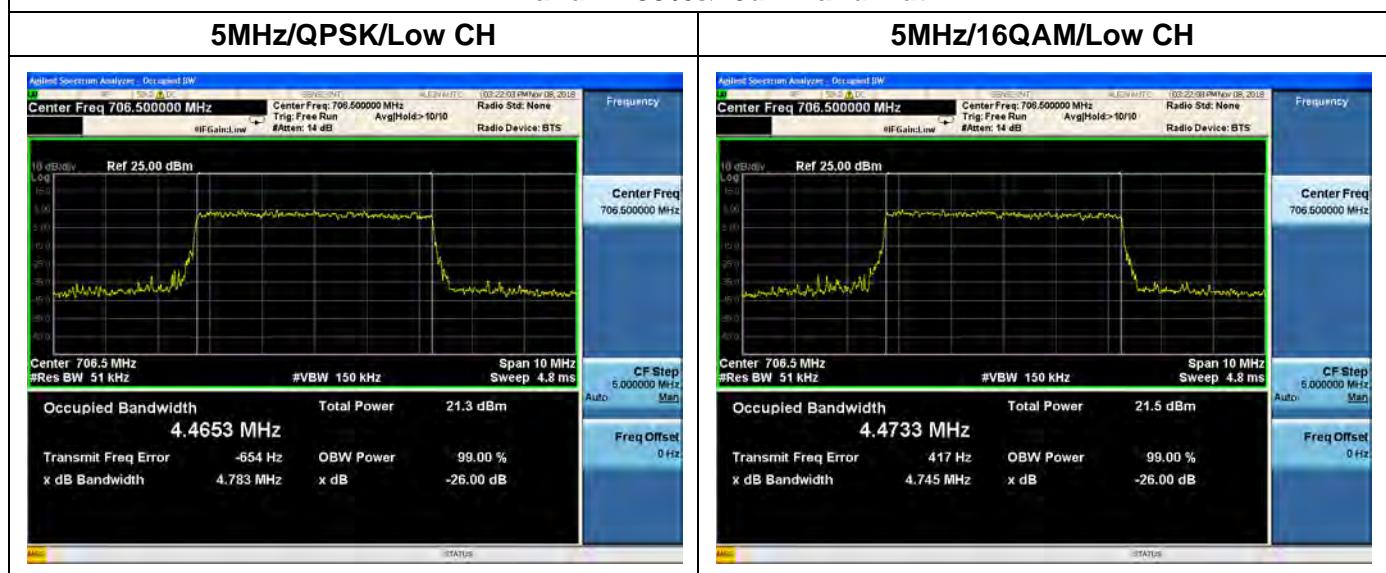
REPORT No.: SZ18100096W05

LTE Band 17, BW: 5MHz

Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
23755	706.5	4.465	4.783	4.473	4.745
23790	710.0	4.472	4.731	4.473	4.738
23825	713.5	4.438	4.749	4.440	4.718

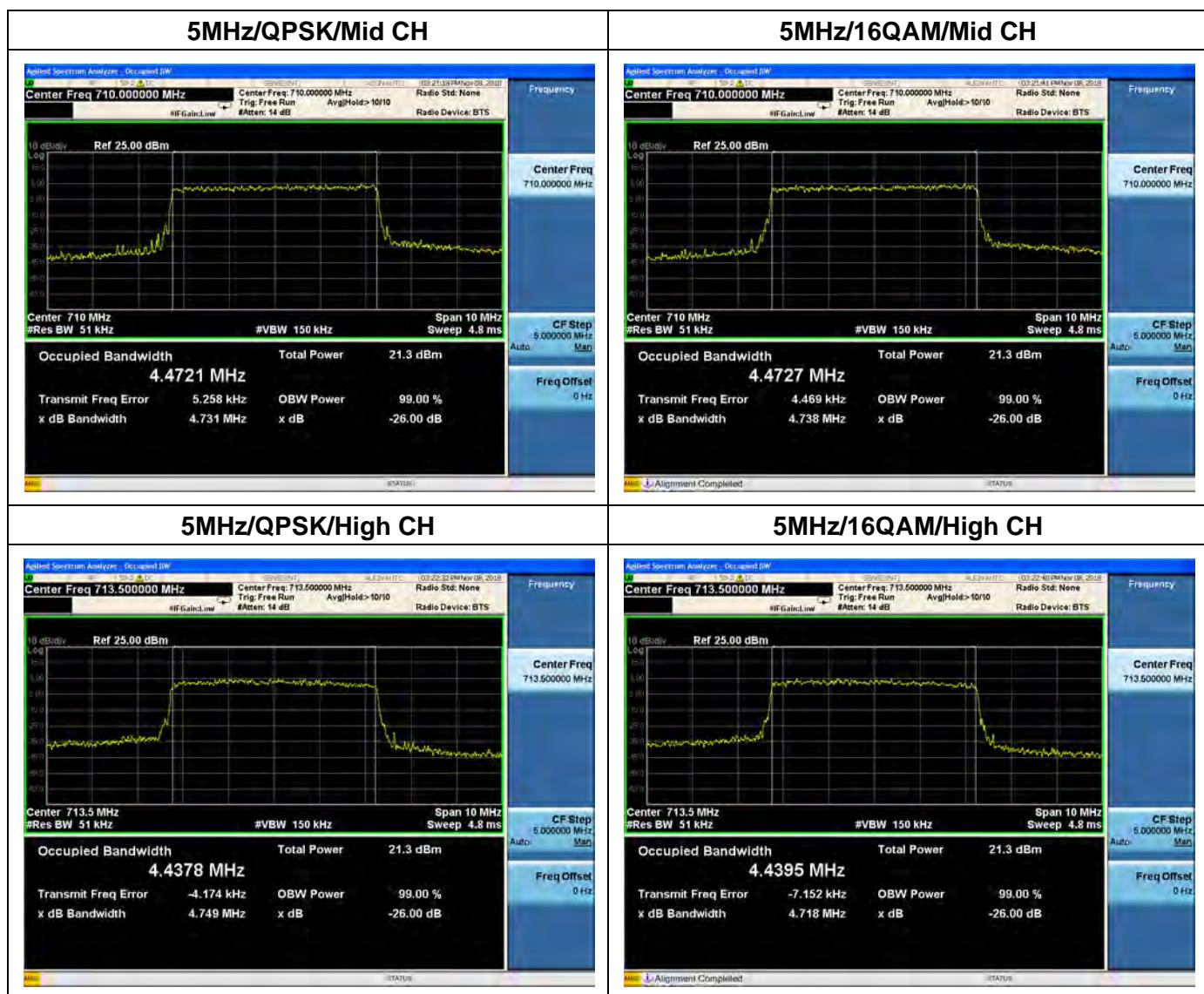
LTE Band 17, BW: 10MHz

Channel	Frequency (MHz)	QPSK		16QAM	
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
23780	709.0	8.938	9.427	8.921	9.382
23790	710.0	8.939	9.350	8.935	9.326
23800	711.0	8.888	9.275	8.923	9.314

LTE Band 17 99%&26dB Bandwidth



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REPORT No.: SZ18100096W05

10MHz/QPSK/Low CH



10MHz/16QAM/Low CH



10MHz/QPSK/Mid CH



10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



10MHz/16QAM/High CH



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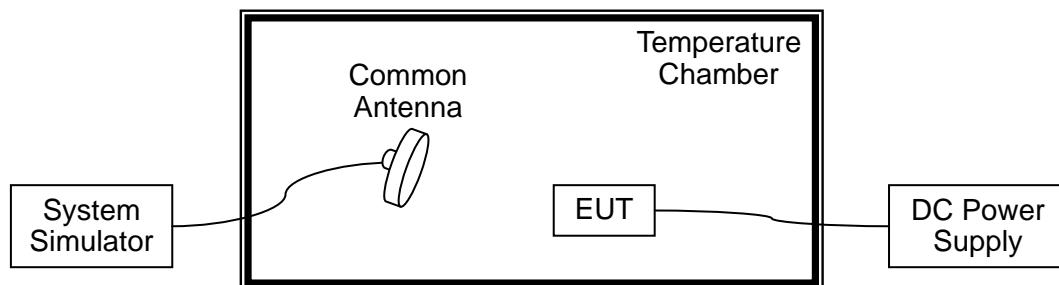
2.3. Frequency Stability

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 -30°C to +50°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 3.8VDC, 4.35VDC and 3.5VDC, which are specified by the applicant; the normal temperature here used is 20°C.



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

Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.8	-30	25	0.013	PASS
100		-20	53	0.028	
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		+60	42	0.022	
115		+20	26	0.014	
85	4.35	+20	-15	-0.008	
85	3.5	+20	-15	-0.008	

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	3.8	-30	31	0.018	PASS
100		-20	53	0.031	
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		+60	31	0.018	
115		+20	26	0.015	
85	4.35	+20	-15	-0.009	
85	3.5	+20	-15	-0.009	



LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.8	-30	41	0.020	PASS
100		-20	52	0.025	
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		+60	52	0.025	
115		+20	26	0.012	
85	3.5	+20	-42	-0.020	

LTE Band 7, QPSK, Channel 21100, Frequency 2535MHz Limit= Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.8	-30	42	0.017	PASS
100		-20	26	0.010	
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	
100		+60	25	0.010	
115		+20	36	0.014	
85	3.5	+20	-25	-0.010	



LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz					
Limit: Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.8	-30	43	0.024	PASS
100		-20	26	0.015	
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		+60	25	0.014	
115	4.35	+20	37	0.021	
85	3.5	+20	-25	-0.014	

LTE Band 17 – QPSK – Channel 23790 – Frequency 710MHz					
Limit: Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.8	-30	42	0.024	PASS
100		-20	51	0.029	
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		+60	42	0.024	
115	4.35	+20	36	0.020	
85	3.5	+20	-55	-0.031	

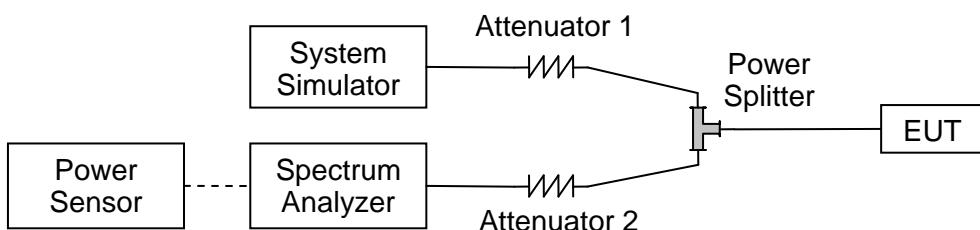
2.4. Peak to Average Radio

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: 1.4MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18607	1850.7	5.15	5.44
18900	1880.0	5.23	5.32
19192	1909.2	4.83	5.47

LTE Band 2, BW: 3MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18615	1851.5	5.23	6.01
18900	1880.0	4.58	5.35
19184	1908.4	4.78	5.49

LTE Band 2, BW: 5MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18625	1852.5	5.84	6.13
18900	1880.0	4.87	5.31
19175	1907.5	5.18	5.64

LTE Band 2, BW: 10MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18650	1855.0	4.70	6.08
18900	1880.0	4.66	5.37
19150	1905.0	4.70	5.92

LTE Band 2, BW: 15MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18675	1857.5	5.74	6.79
18900	1880.0	5.73	6.72
19125	1902.5	5.73	6.73

LTE Band 2, BW: 20MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18700	1860.0	6.42	7.10
18900	1880.0	6.42	6.98
19100	1900.0	6.44	6.45



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LTE Band 2 Peak to Average Radio

1.4MHz/QPSK/Low CH



1.4MHz/16QAM/Low CH



1.4MHz/QPSK/Mid CH



1.4MHz/16QAM/Mid CH

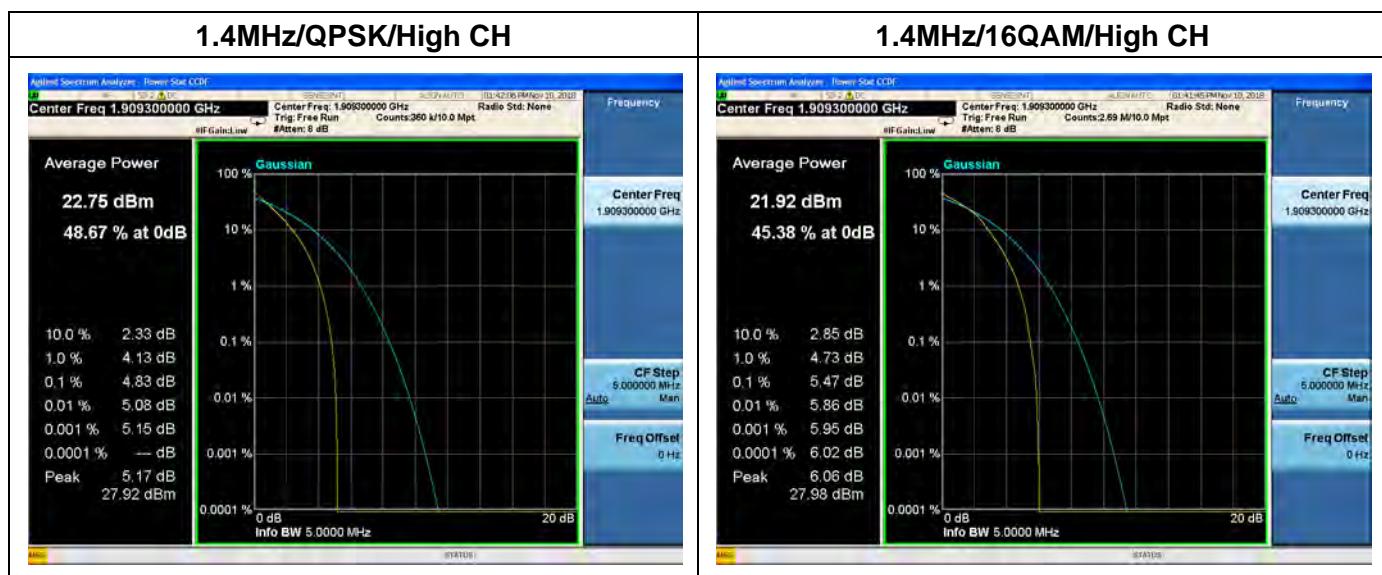


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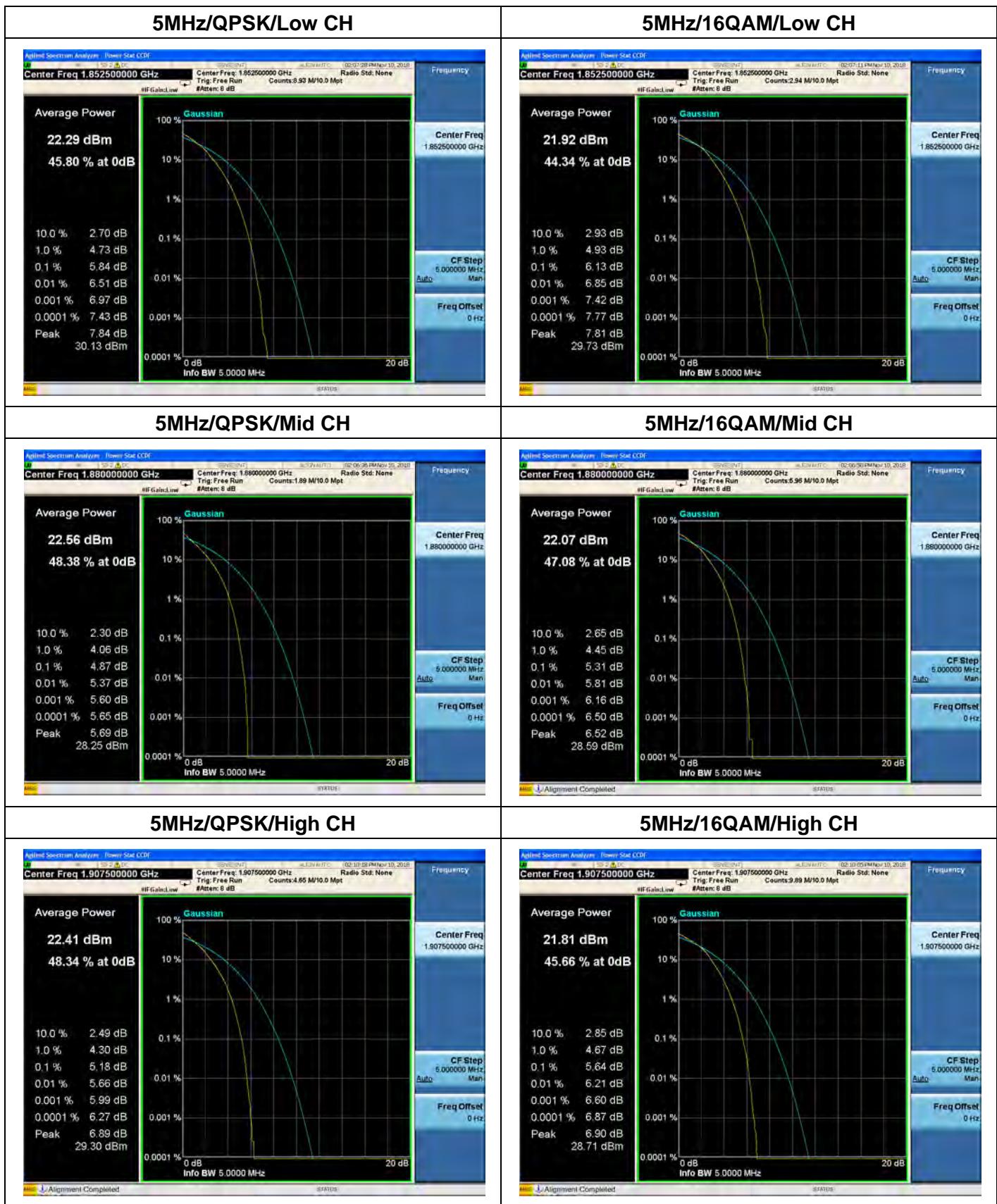
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3MHz/QPSK/Low CH	3MHz/16QAM/Low CH
<p>Average Power 22.76 dBm 46.79 % at 0dB 10.0 % 2.40 dB 1.0 % 4.35 dB 0.1 % 5.23 dB 0.01 % 5.71 dB 0.001 % 5.94 dB 0.0001 % 6.00 dB Peak 6.01 dB 28.77 dBm</p>	<p>Average Power 21.83 dBm 44.22 % at 0dB 10.0 % 2.92 dB 1.0 % 4.97 dB 0.1 % 6.01 dB 0.01 % 6.53 dB 0.001 % 6.96 dB 0.0001 % 7.03 dB Peak 7.04 dB 28.87 dBm</p>
3MHz/QPSK/Mid CH	3MHz/16QAM/Mid CH
<p>Average Power 22.56 dBm 48.85 % at 0dB 10.0 % 2.32 dB 1.0 % 3.96 dB 0.1 % 4.58 dB 0.01 % 4.88 dB 0.001 % 4.97 dB 0.0001 % — dB Peak 5.09 dB 27.65 dBm</p>	<p>Average Power 21.70 dBm 45.98 % at 0dB 10.0 % 2.85 dB 1.0 % 4.62 dB 0.1 % 5.35 dB 0.01 % 5.70 dB 0.001 % 5.94 dB 0.0001 % 5.98 dB Peak 5.99 dB 27.69 dBm</p>
3MHz/QPSK/High CH	3MHz/16QAM/High CH
<p>Average Power 22.69 dBm 48.40 % at 0dB 10.0 % 2.33 dB 1.0 % 4.07 dB 0.1 % 4.78 dB 0.01 % 5.11 dB 0.001 % 5.26 dB 0.0001 % 5.32 dB Peak 5.32 dB 28.01 dBm</p>	<p>Average Power 21.82 dBm 45.80 % at 0dB 10.0 % 2.85 dB 1.0 % 4.69 dB 0.1 % 5.49 dB 0.01 % 5.94 dB 0.001 % 6.11 dB 0.0001 % — dB Peak 6.15 dB 27.97 dBm</p>

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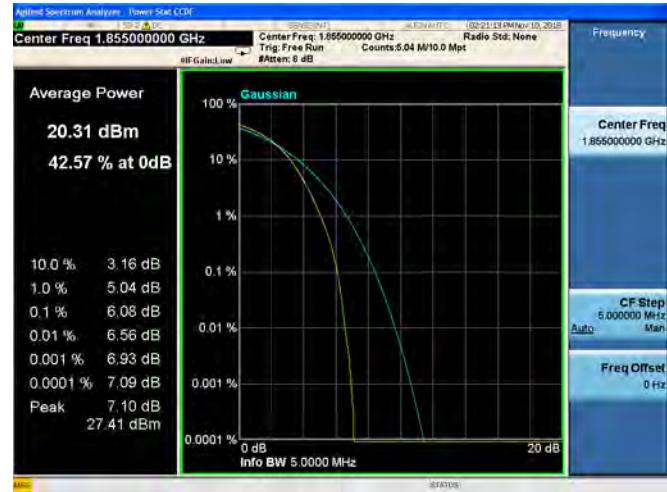
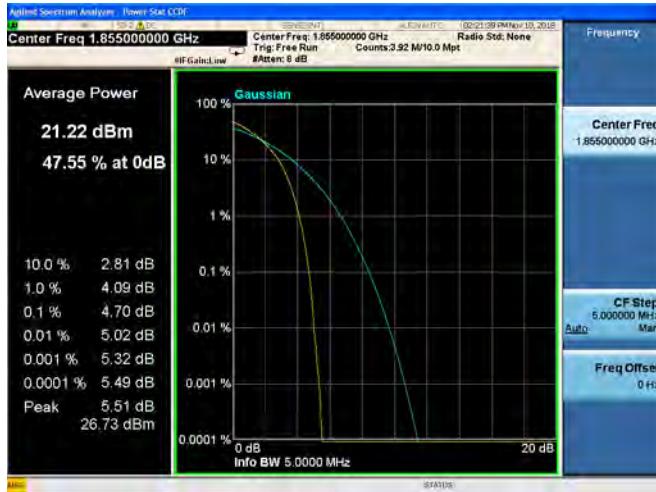




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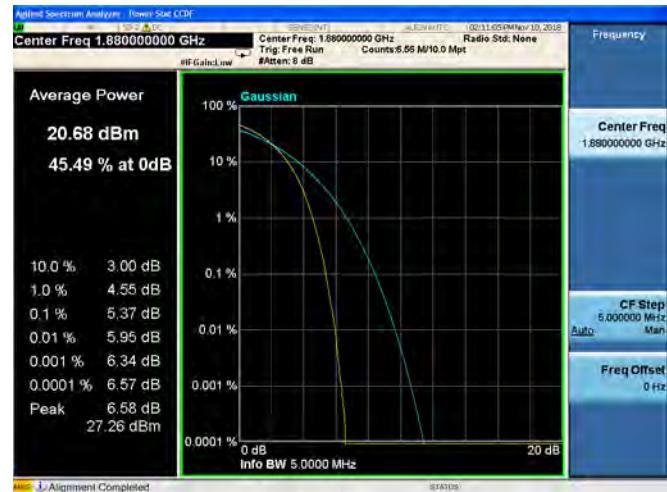
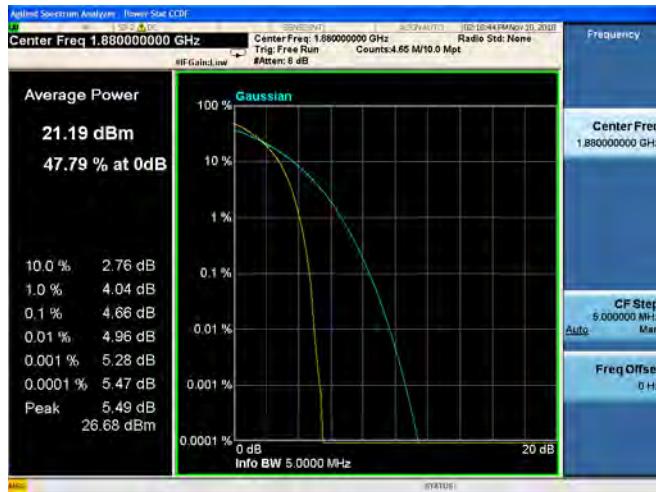
10MHz/QPSK/Low CH

10MHz/16QAM/Low CH



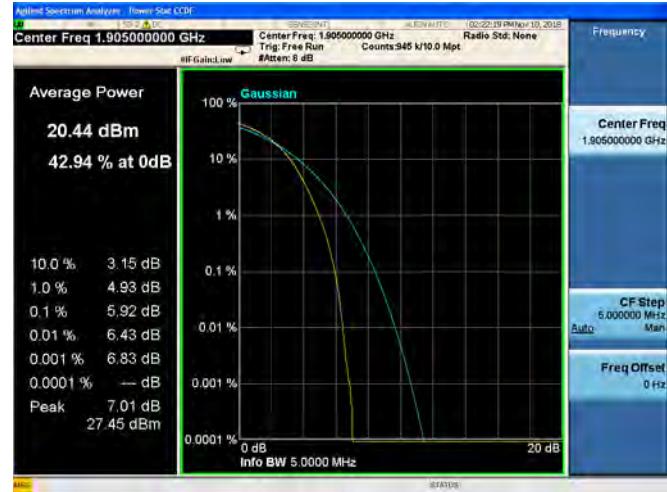
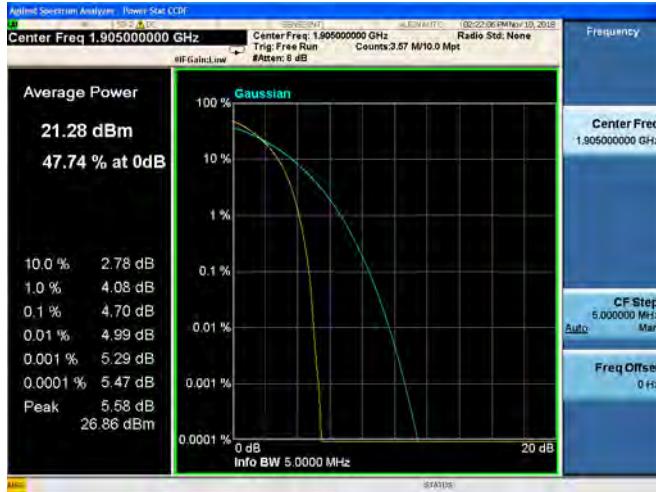
10MHz/QPSK/Mid CH

10MHz/16QAM/Mid CH



10MHz/QPSK/High CH

10MHz/16QAM/High CH



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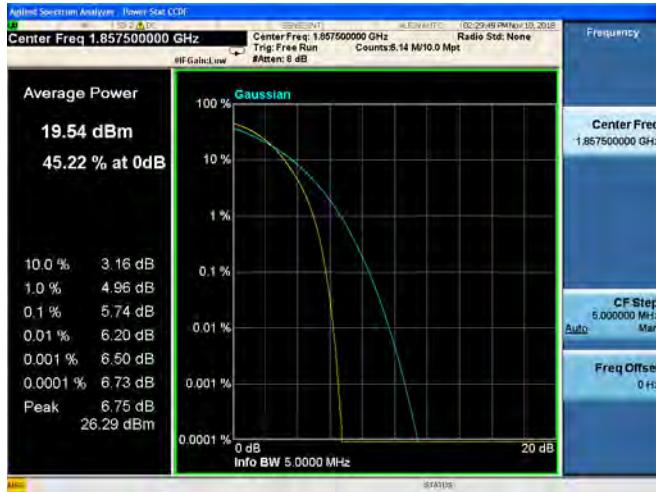
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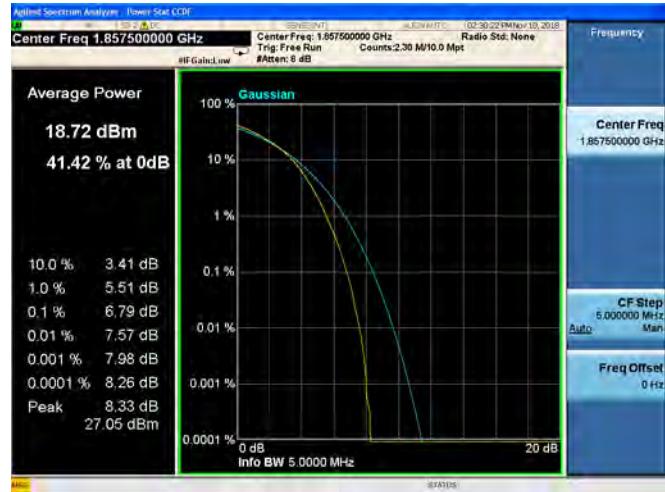


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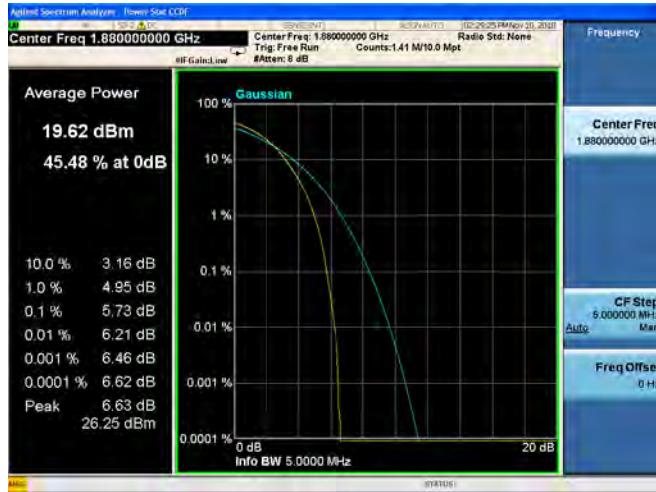
15MHz/QPSK/Low CH



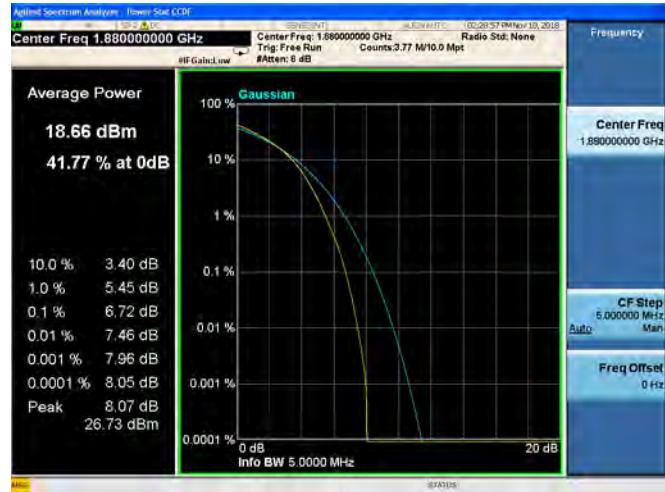
15MHz/16QAM/Low CH



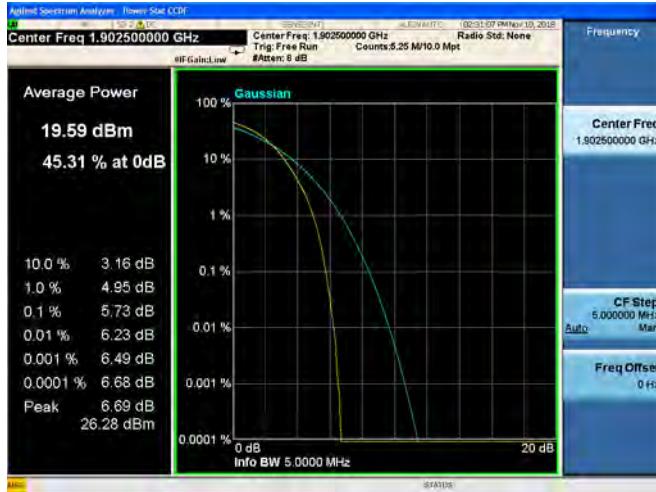
15MHz/QPSK/Mid CH



15MHz/16QAM/Mid CH



15MHz/QPSK/High CH



15MHz/16QAM/High CH



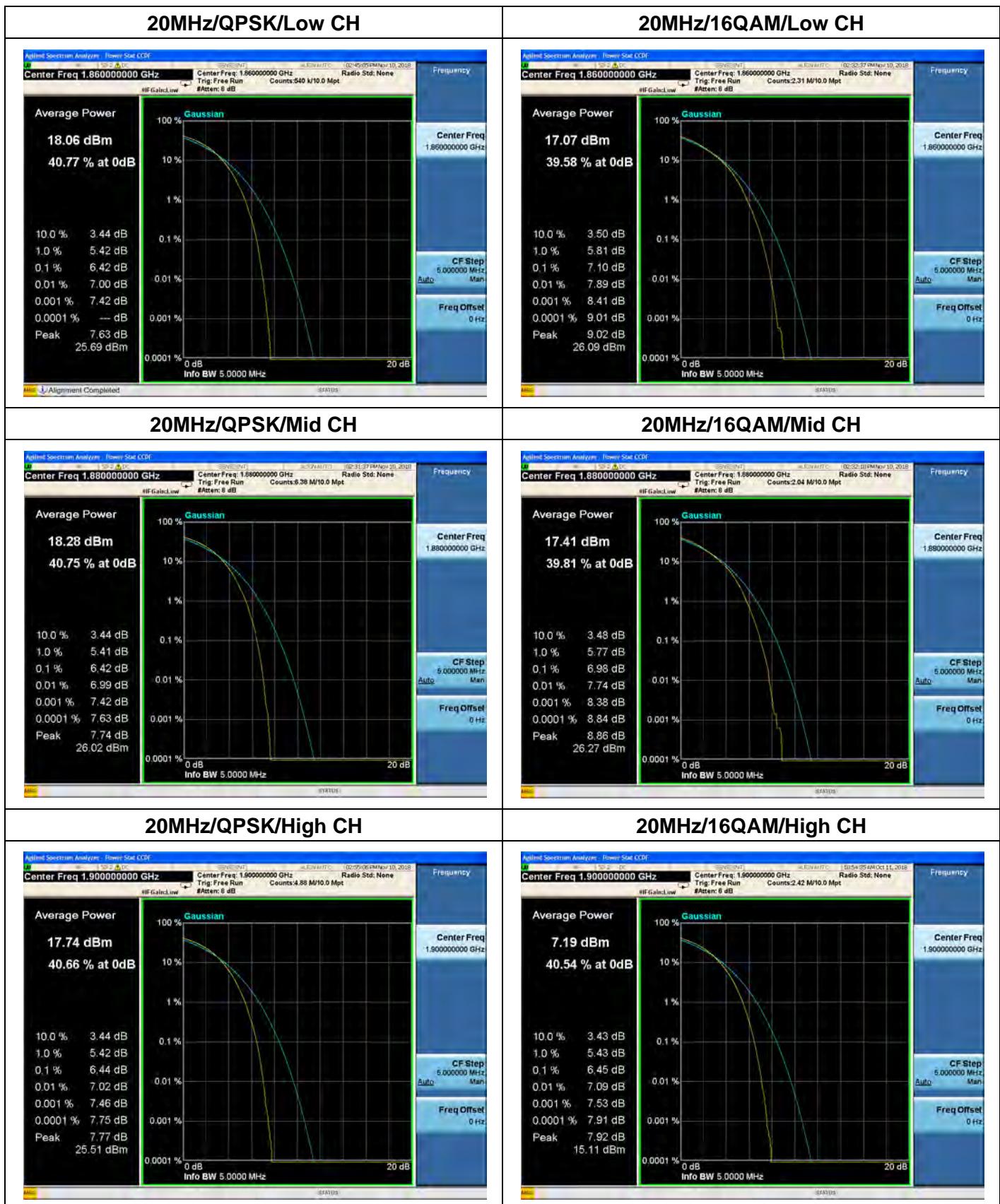
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LTE Band 4, BW: 1.4MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18607	1850.7	4.28	5.02
18900	1880.0	5.04	5.74
19192	1909.2	5.50	6.12
LTE Band 4, BW: 3MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18615	1851.5	4.64	5.30
18900	1880.0	5.09	5.91
19184	1908.4	5.48	5.85
LTE Band 4, BW: 5MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18625	1852.5	4.58	5.39
18900	1880.0	5.15	5.91
19175	1907.5	5.51	6.23
LTE Band 4, BW: 10MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18650	1855.0	4.69	5.99
18900	1880.0	4.71	6.05
19150	1905.0	4.70	6.07
LTE Band 4, BW: 15MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18675	1857.5	5.36	6.58
18900	1880.0	5.75	6.80
19125	1902.5	5.75	6.80
LTE Band 4, BW: 20MHz			
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
18700	1860.0	6.45	7.10
18900	1880.0	6.46	7.11
19100	1900.0	6.46	7.05



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LTE Band 4 Peak to Average Radio

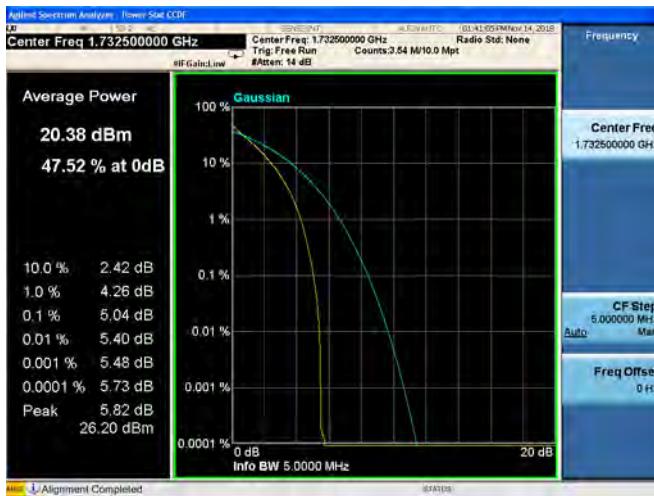
1.4MHz/QPSK/Low CH



1.4MHz/16QAM/Low CH



1.4MHz/QPSK/Mid CH



1.4MHz/16QAM/Mid CH



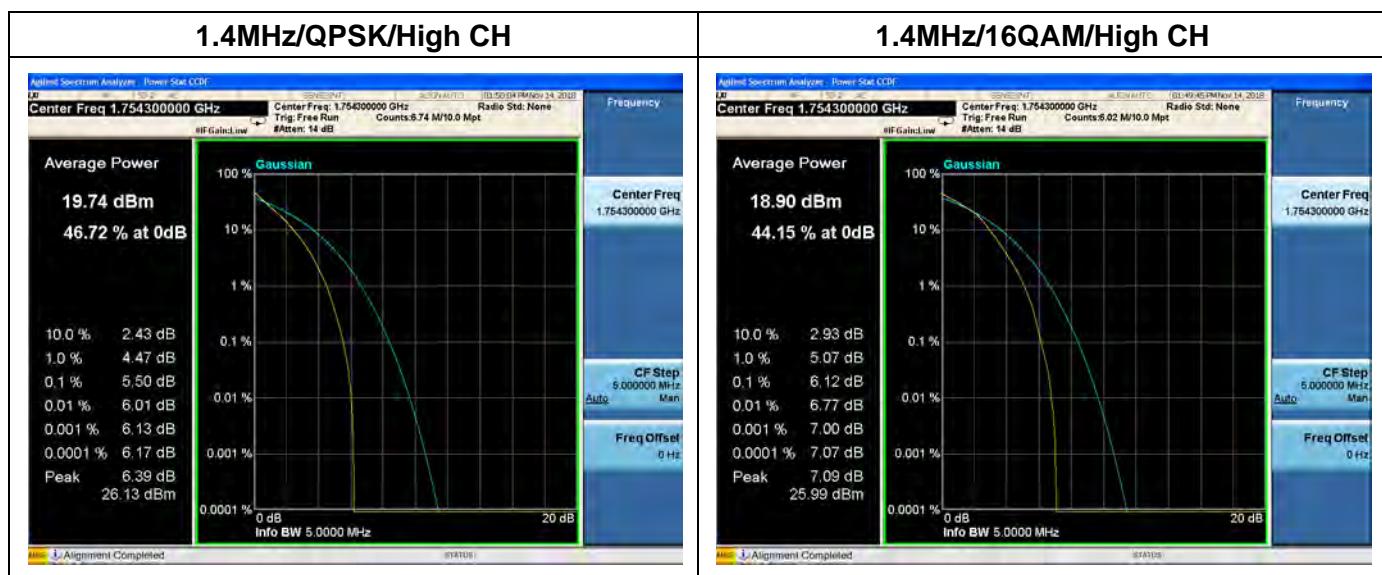
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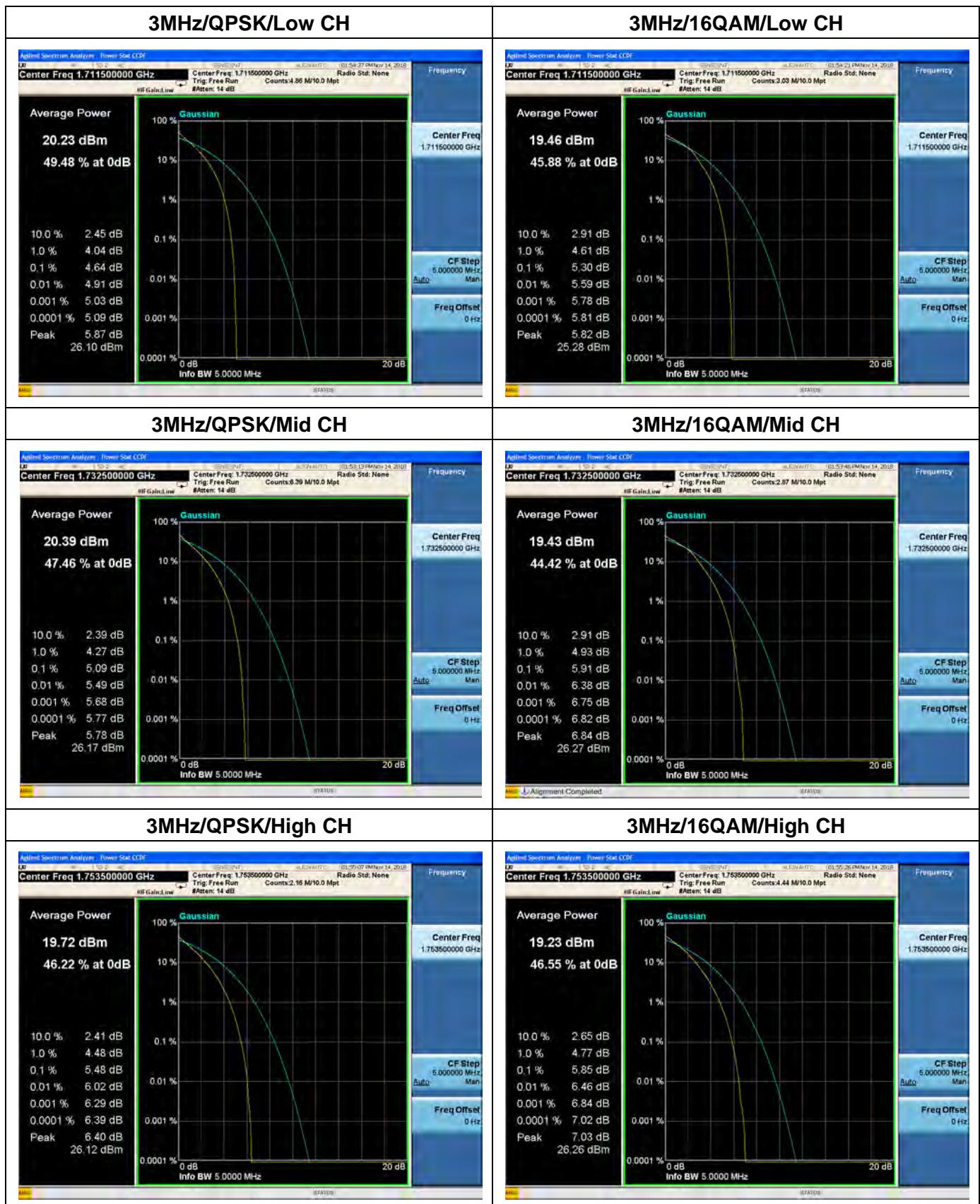
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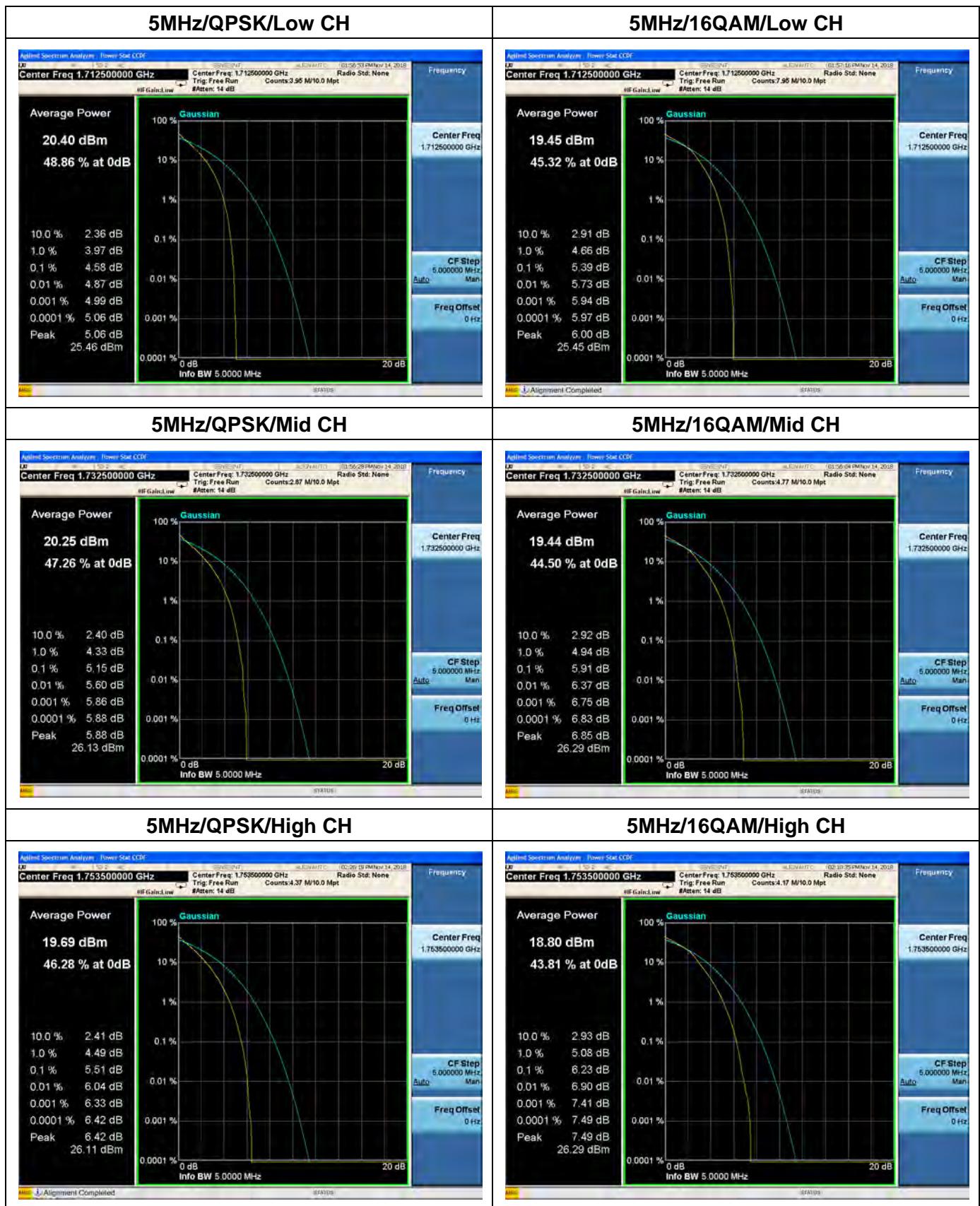
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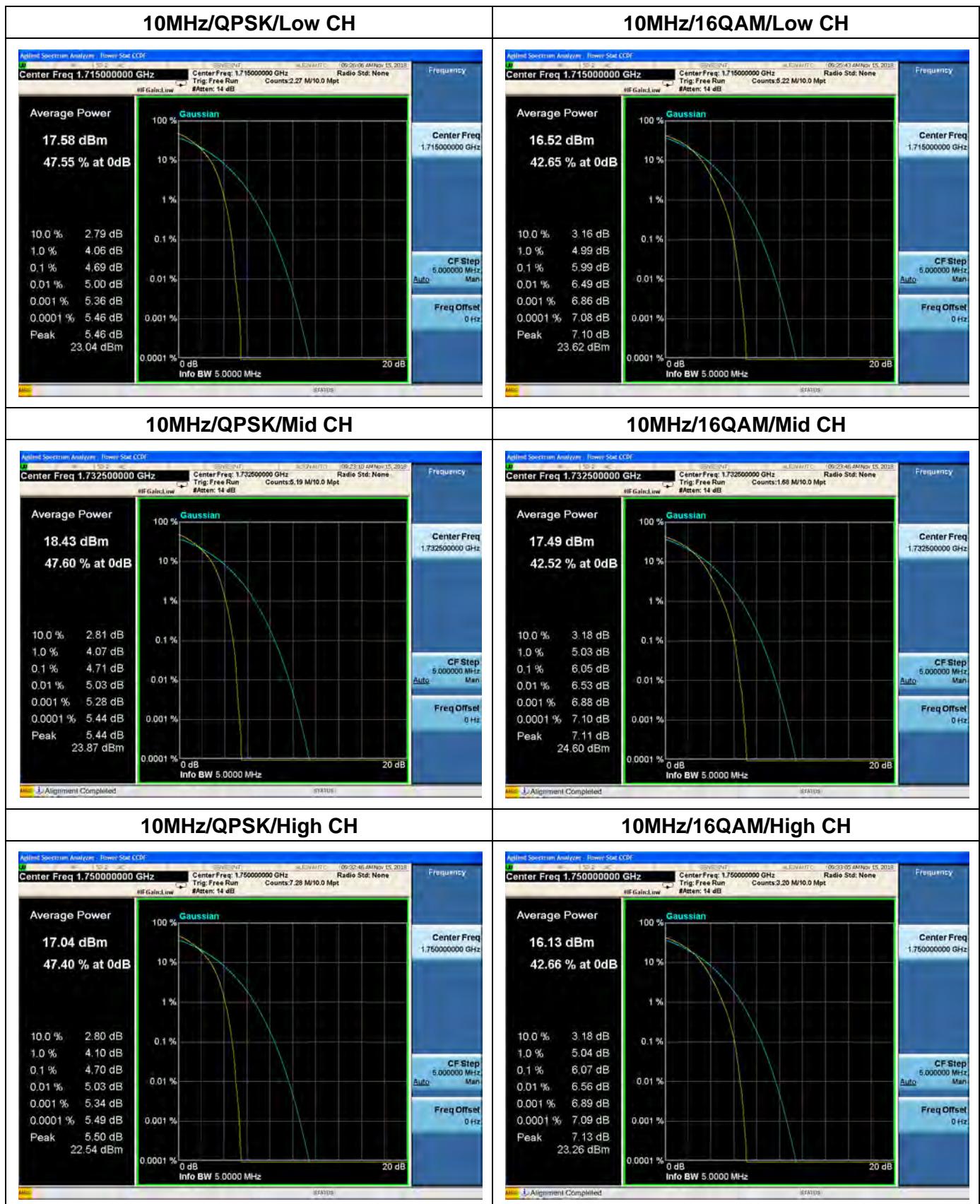
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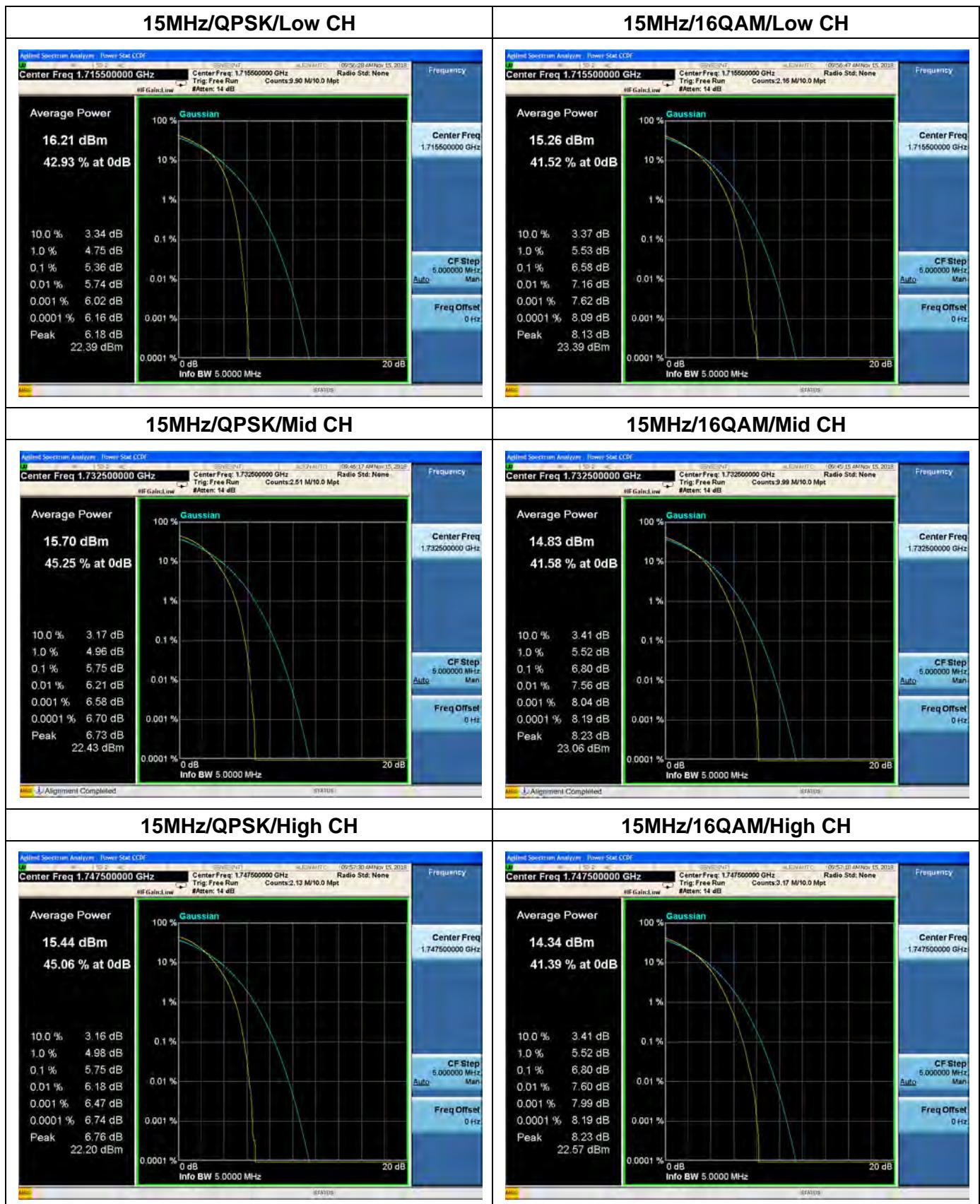
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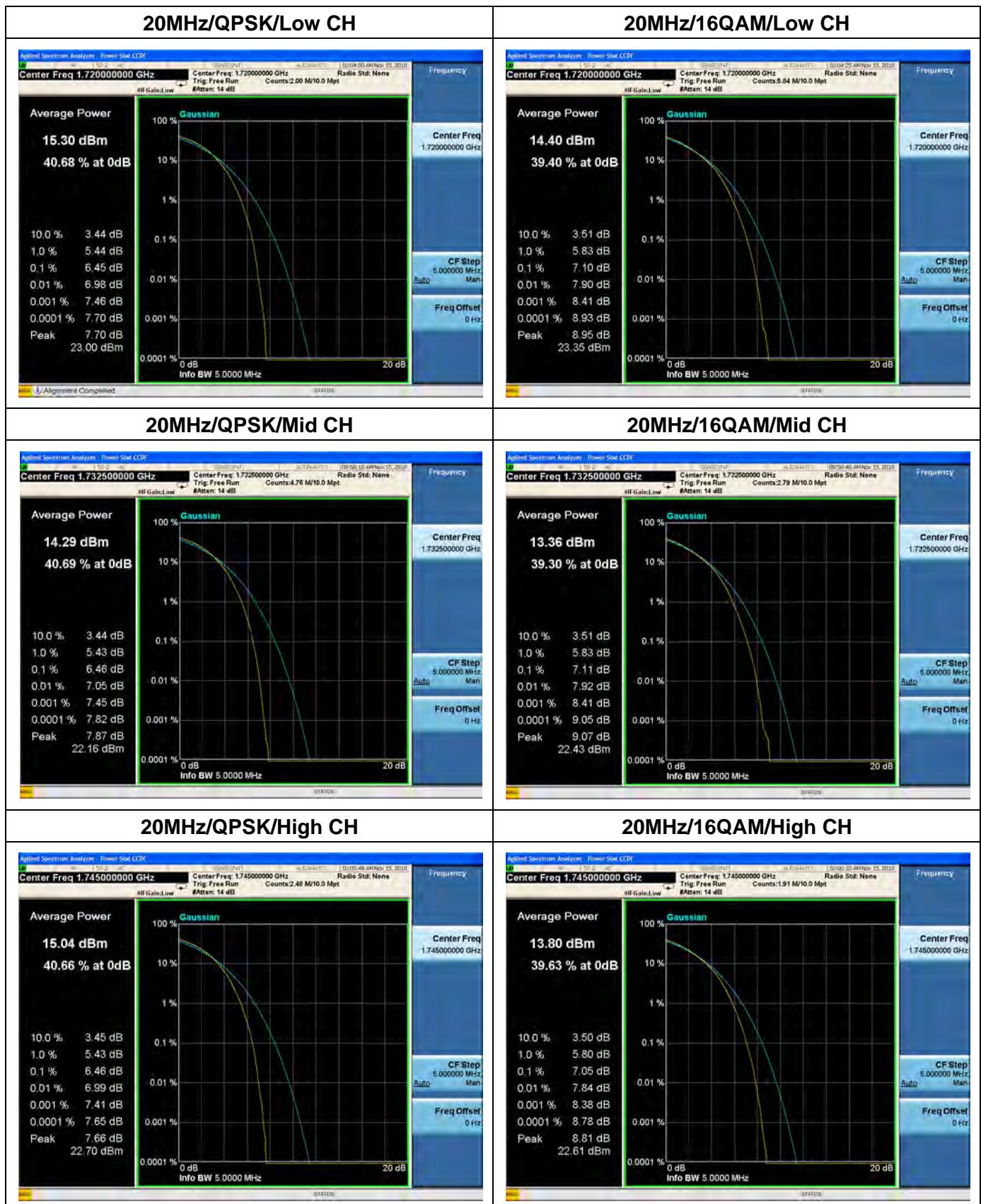
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REPORT No.: SZ18100096W05



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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	5.89
20525	836.5	4.79	5.33
20643	848.3	4.99	5.70

LTE Band 5, BW: 3MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20415	825.5	5.28	6.06
20525	836.5	4.79	5.61
20635	847.5	4.93	5.80

LTE Band 5, BW: 5MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20425	826.5	5.29	6.16
20525	836.5	4.99	5.77
20625	846.5	5.05	5.77

LTE Band 5, BW: 10MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20450	829.0	4.69	6.09
20525	836.5	4.66	5.98
20600	844.0	4.69	5.95

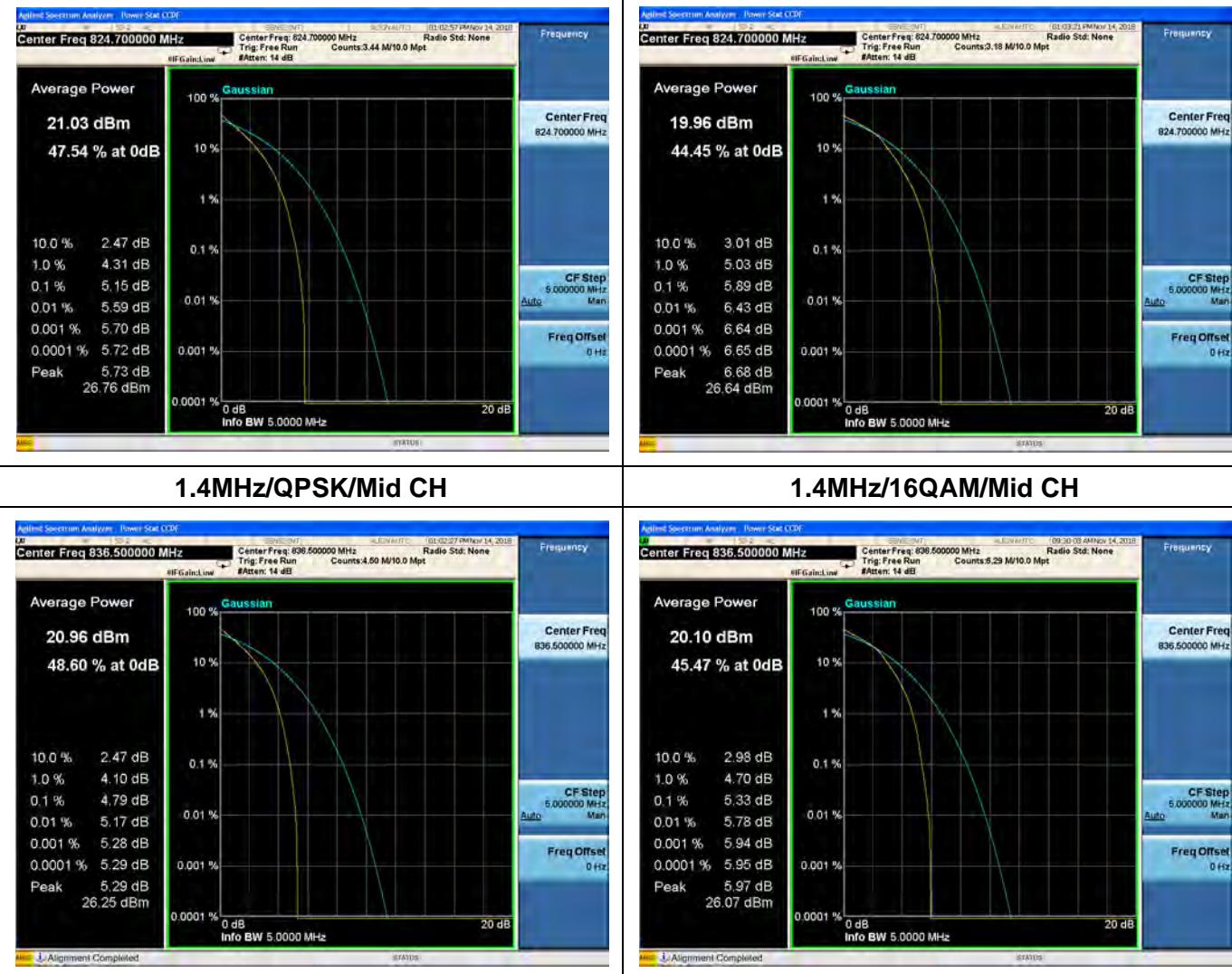


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LTE Band 5 Peak to Average Radio

1.4MHz/QPSK/Low CH

1.4MHz/16QAM/Low CH



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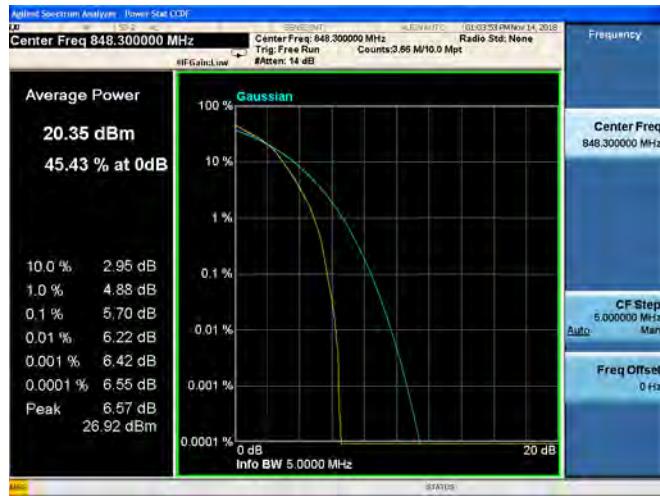


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1.4MHz/QPSK/High CH



1.4MHz/16QAM/High CH



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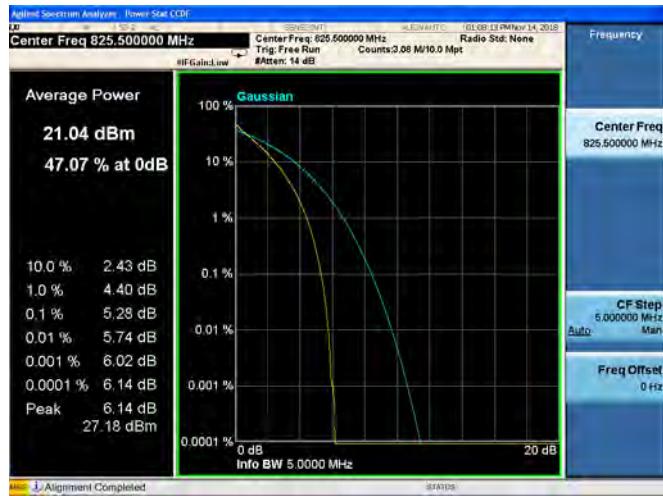
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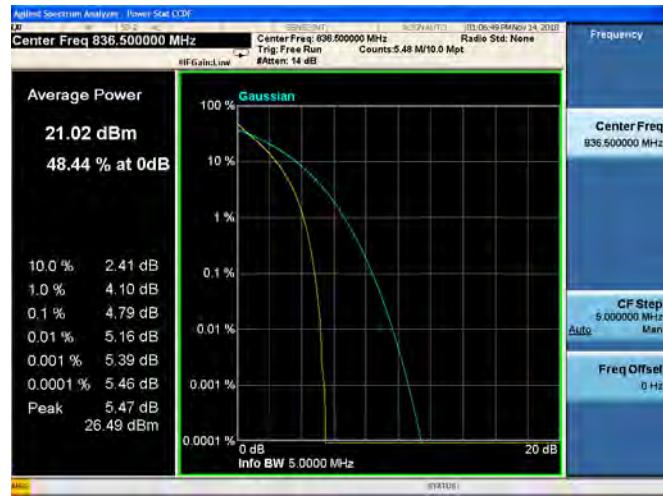
3MHz/QPSK/Low CH



3MHz/16QAM/Low CH



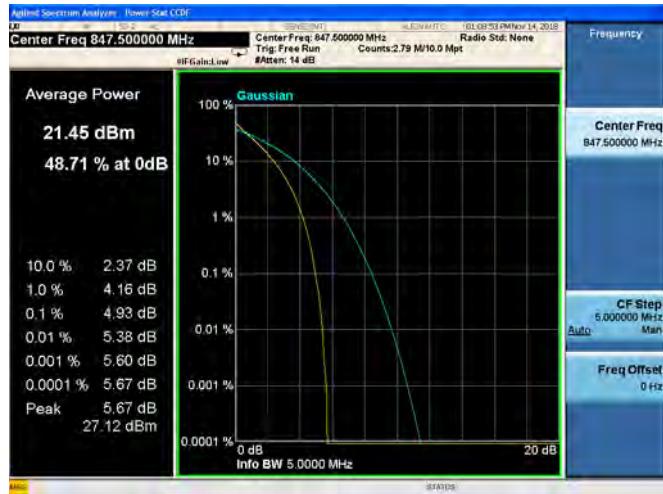
3MHz/QPSK/Mid CH



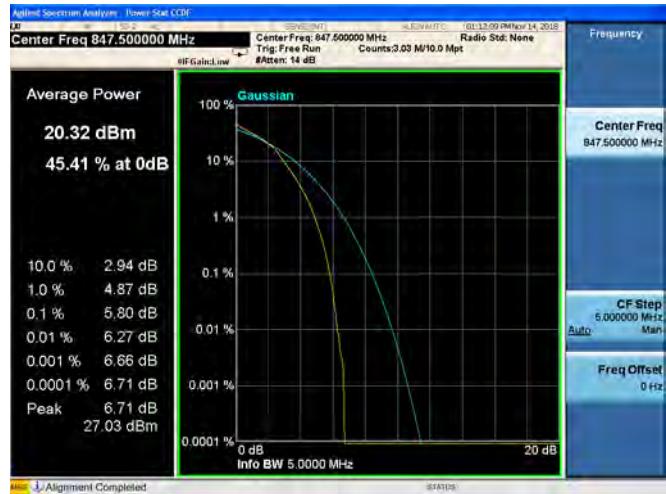
3MHz/16QAM/Mid CH



3MHz/QPSK/High CH



3MHz/16QAM/High CH



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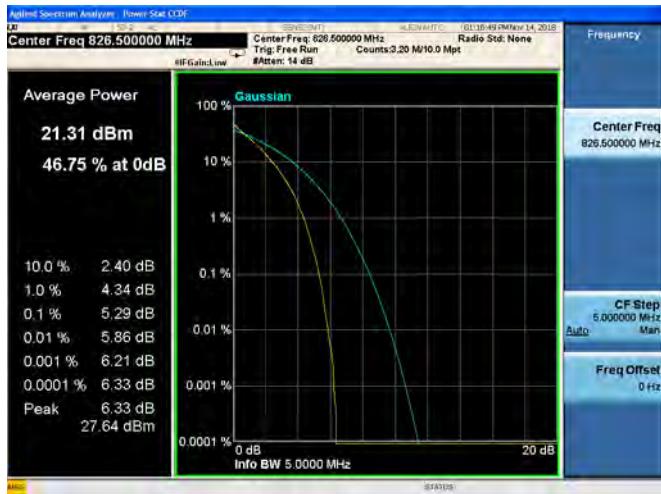
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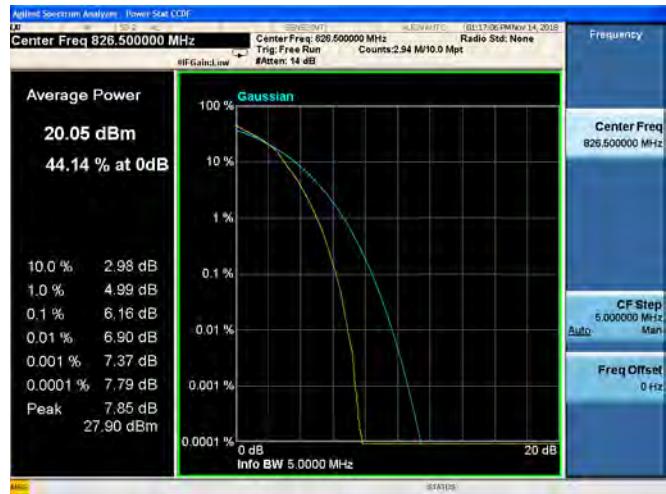


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5MHz/QPSK/Low CH



5MHz/16QAM/Low CH



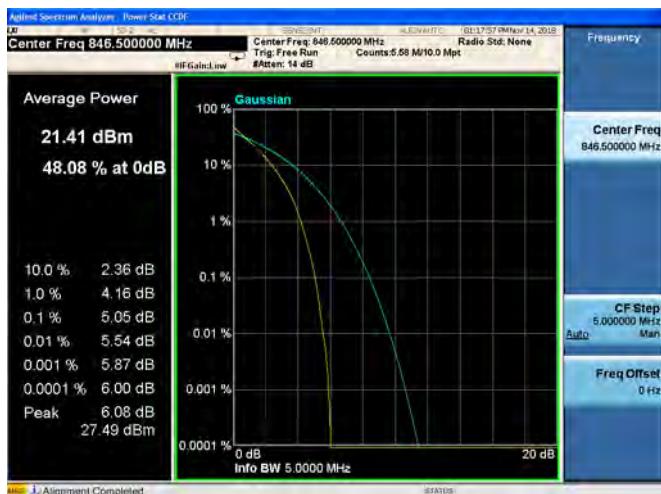
5MHz/QPSK/Mid CH



5MHz/16QAM/Mid CH



5MHz/QPSK/High CH



5MHz/16QAM/High CH



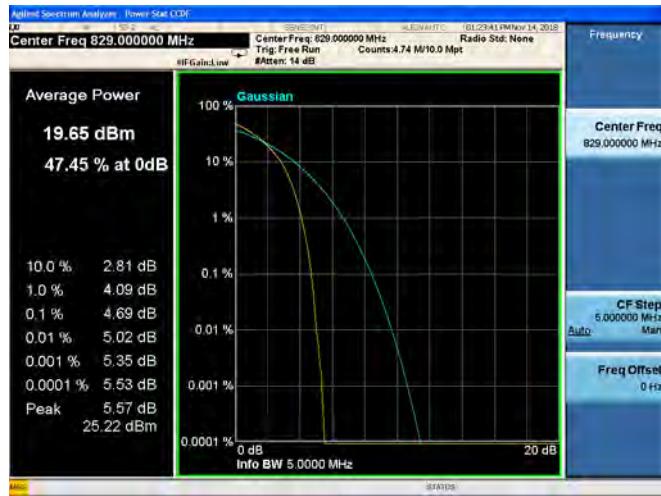
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REPORT No.: SZ18100096W05

10MHz/QPSK/Low CH



10MHz/16QAM/Low CH



10MHz/QPSK/Mid CH



10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



10MHz/16QAM/High CH



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**LTE Band 7, BW: 5MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20775	2502.5	5.59	6.31
21100	2535.0	5.58	6.17
21425	2567.5	5.42	6.09

LTE Band 7, BW: 10MHz

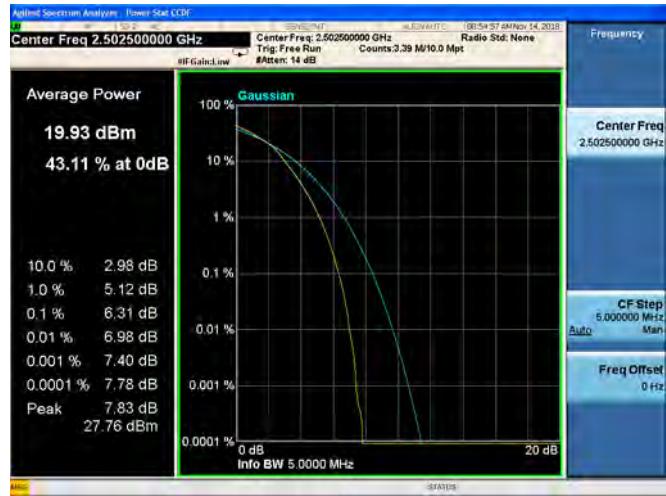
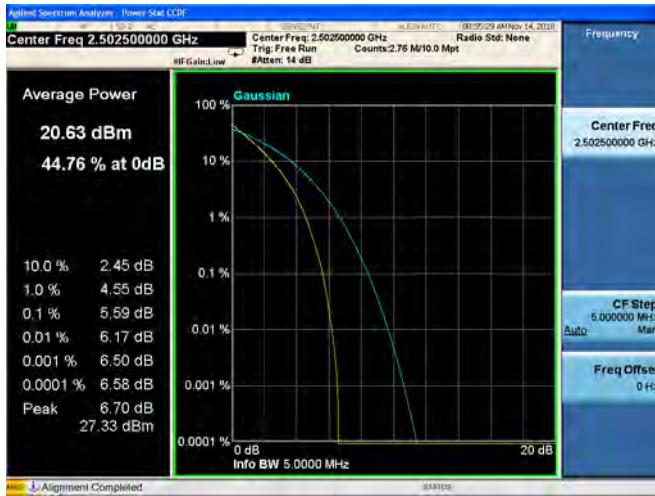
Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20800	2505.0	4.73	6.19
21100	2535.0	4.71	6.16
21400	2565.0	4.75	6.08

LTE Band 7, BW: 15MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20825	2507.5	5.71	6.88
21100	2535.0	4.71	6.85
21375	2562.5	5.71	6.83

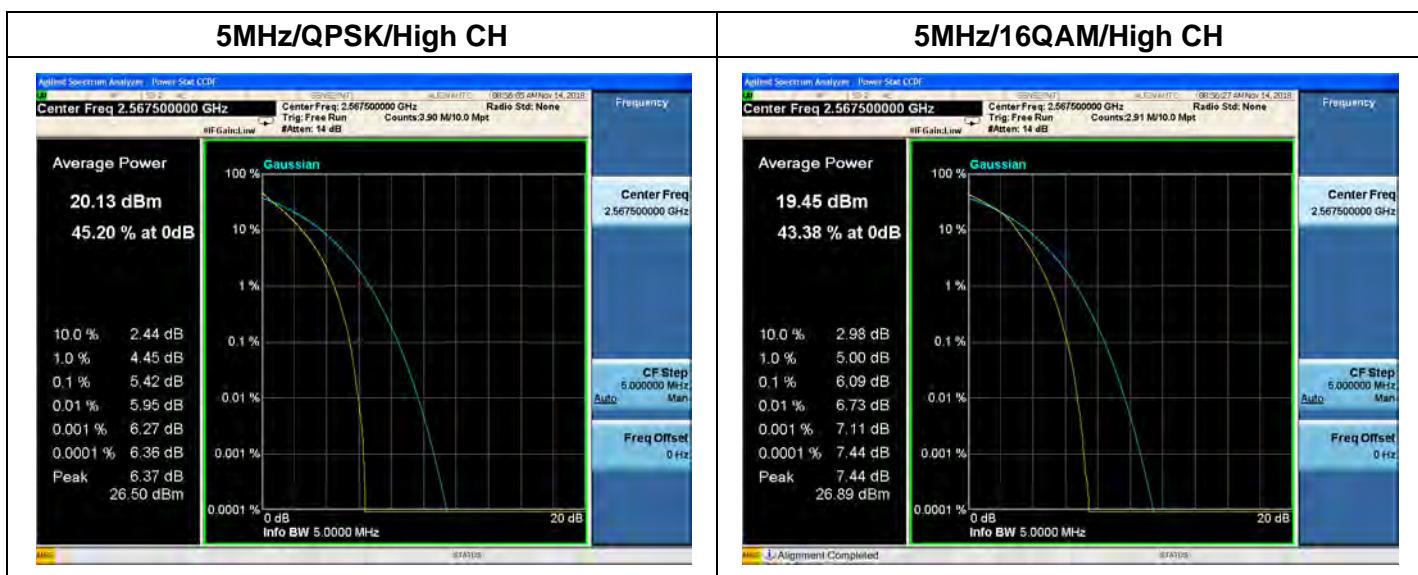
LTE Band 7, BW: 20MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
20850	2510.0	6.40	7.14
21100	2535.0	6.41	7.15
21350	2560.0	6.41	7.12

LTE Band 7 Peak to Average Radio
5MHz/QPSK/Low CH
5MHz/16QAM/Low CH

5MHz/QPSK/Mid CH
5MHz/16QAM/Mid CH




REPORT No.: SZ18100096W05



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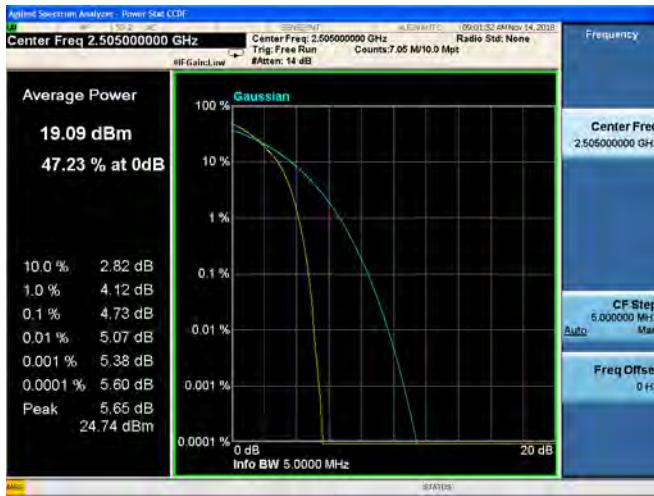
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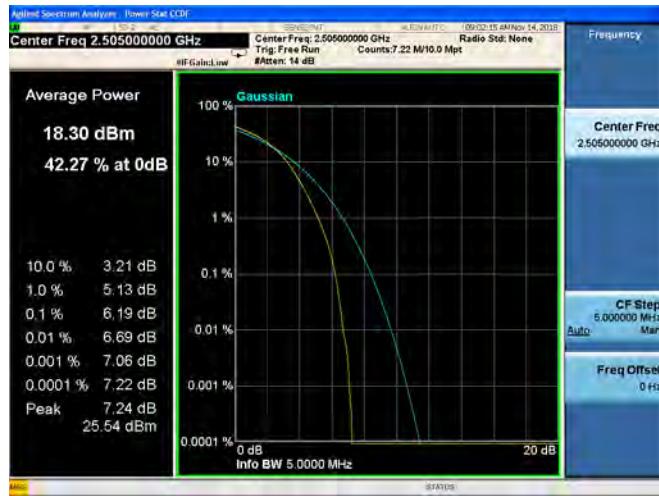


REPORT No.: SZ18100096W05

10MHz/QPSK/Low CH



10MHz/16QAM/Low CH



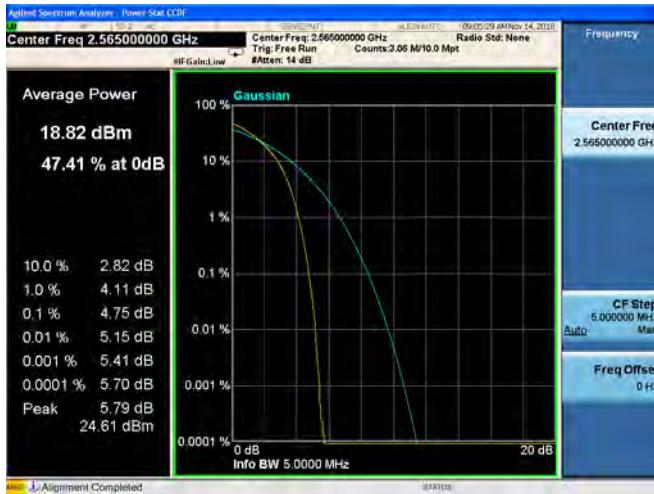
10MHz/QPSK/Mid CH



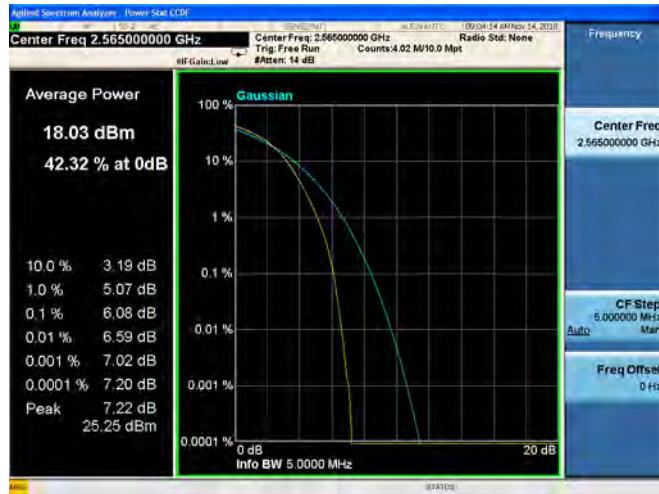
10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



10MHz/16QAM/High CH



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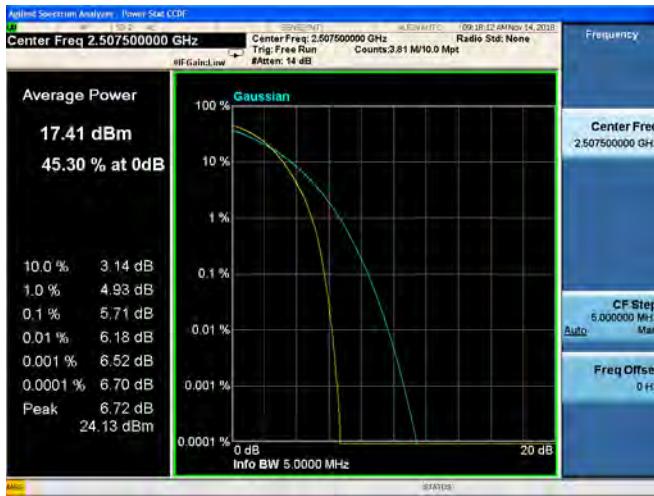
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REPORT No.: SZ18100096W05

15MHz/QPSK/Low CH



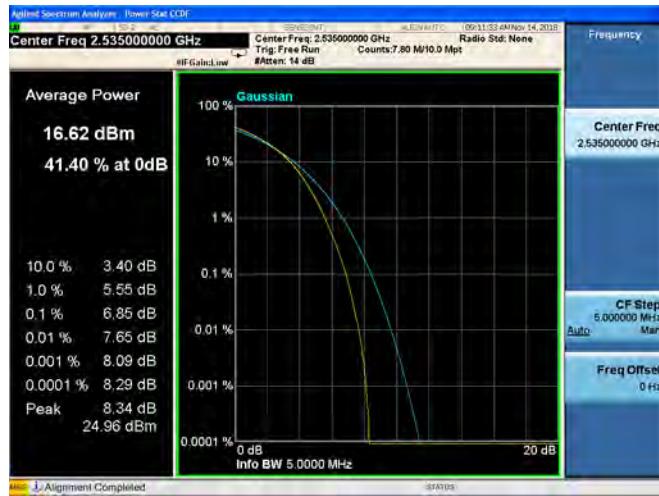
15MHz/16QAM/Low CH



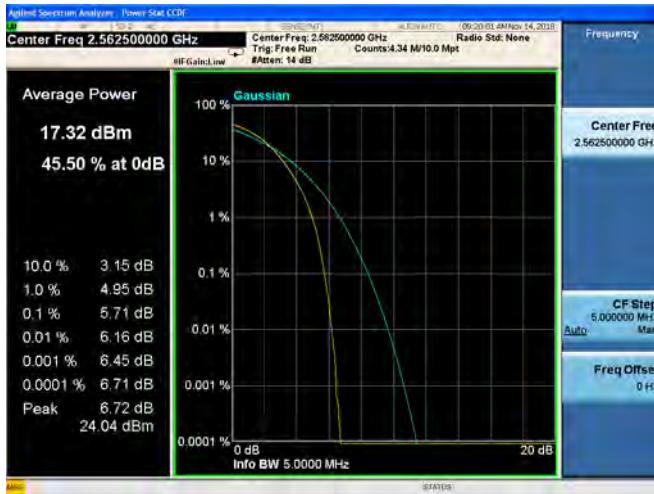
15MHz/QPSK/Mid CH



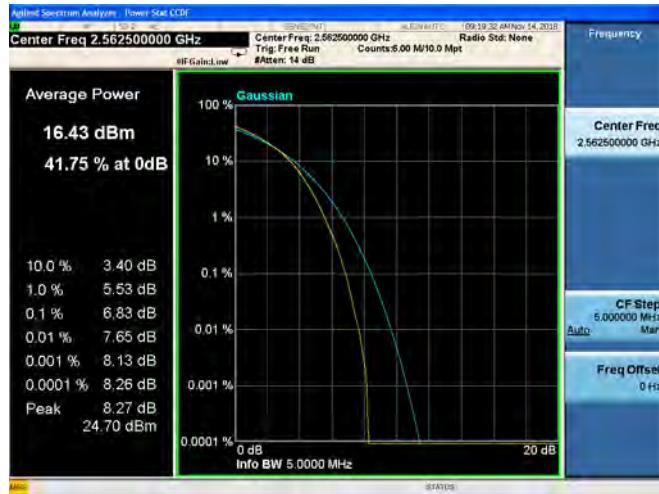
15MHz/16QAM/Mid CH



15MHz/QPSK/High CH



15MHz/16QAM/High CH



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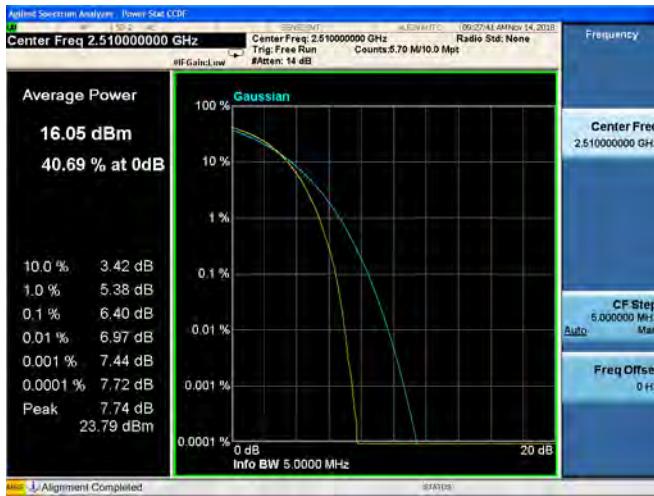
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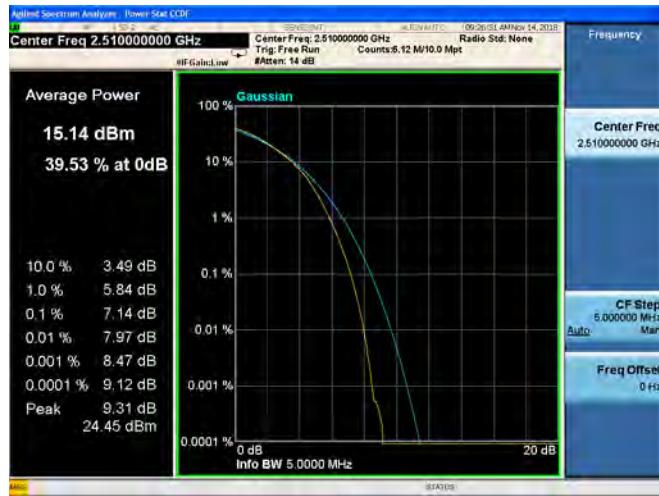


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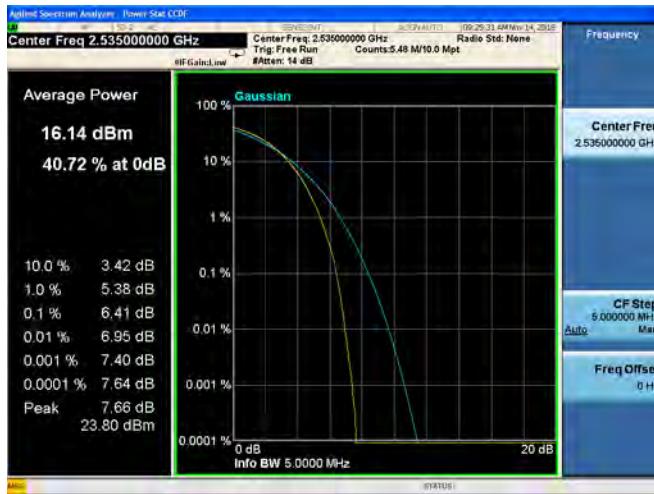
20MHz/QPSK/Low CH



20MHz/16QAM/Low CH



20MHz/QPSK/Mid CH



20MHz/16QAM/Mid CH



20MHz/QPSK/High CH



20MHz/16QAM/High CH



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**LTE Band 12, BW: 1.4MHz**

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23017	699.7	5.23	6.04
23095	707.5	5.39	6.12
23173	715.3	4.85	5.74

LTE Band 12, BW: 3MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23025	700.5	5.20	6.03
23095	707.5	5.42	6.18
23165	714.5	4.799	5.60

LTE Band 12, BW: 5MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23035	701.5	5.12	6.03
23095	707.5	5.52	6.20
23165	714.5	5.01	5.80

LTE Band 12, BW: 10MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23060	704.0	4.66	6.07
23095	707.5	4.82	6.15
23130	711.0	4.78	6.18



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LTE Band 12 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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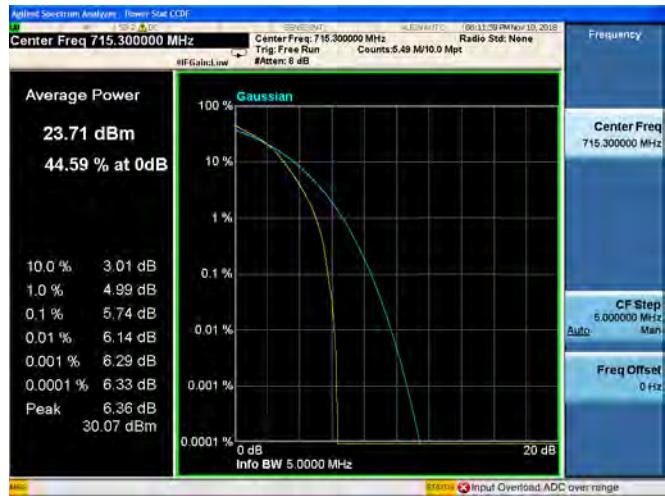


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1.4MHz/QPSK/High CH



1.4MHz/16QAM/High CH



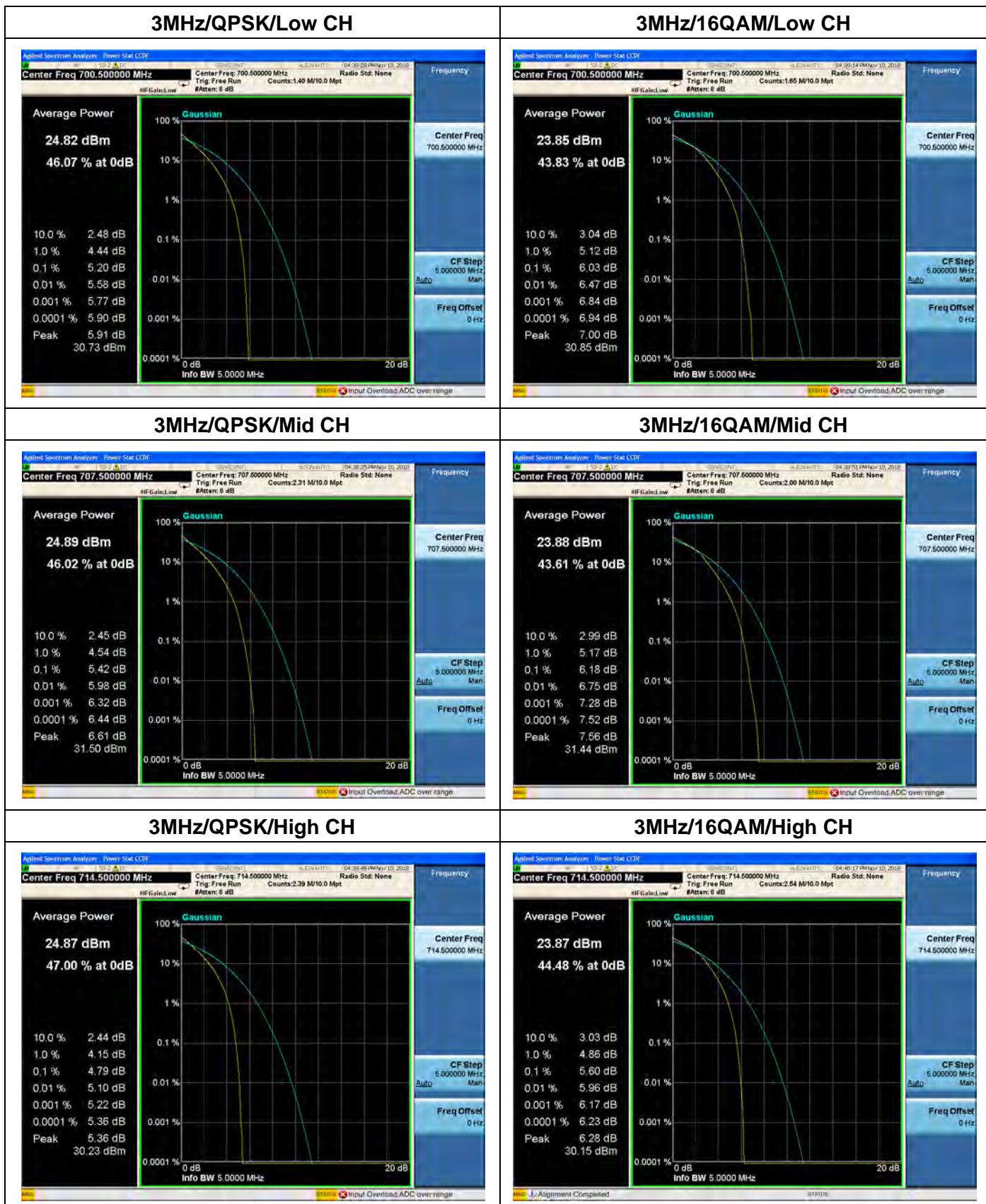
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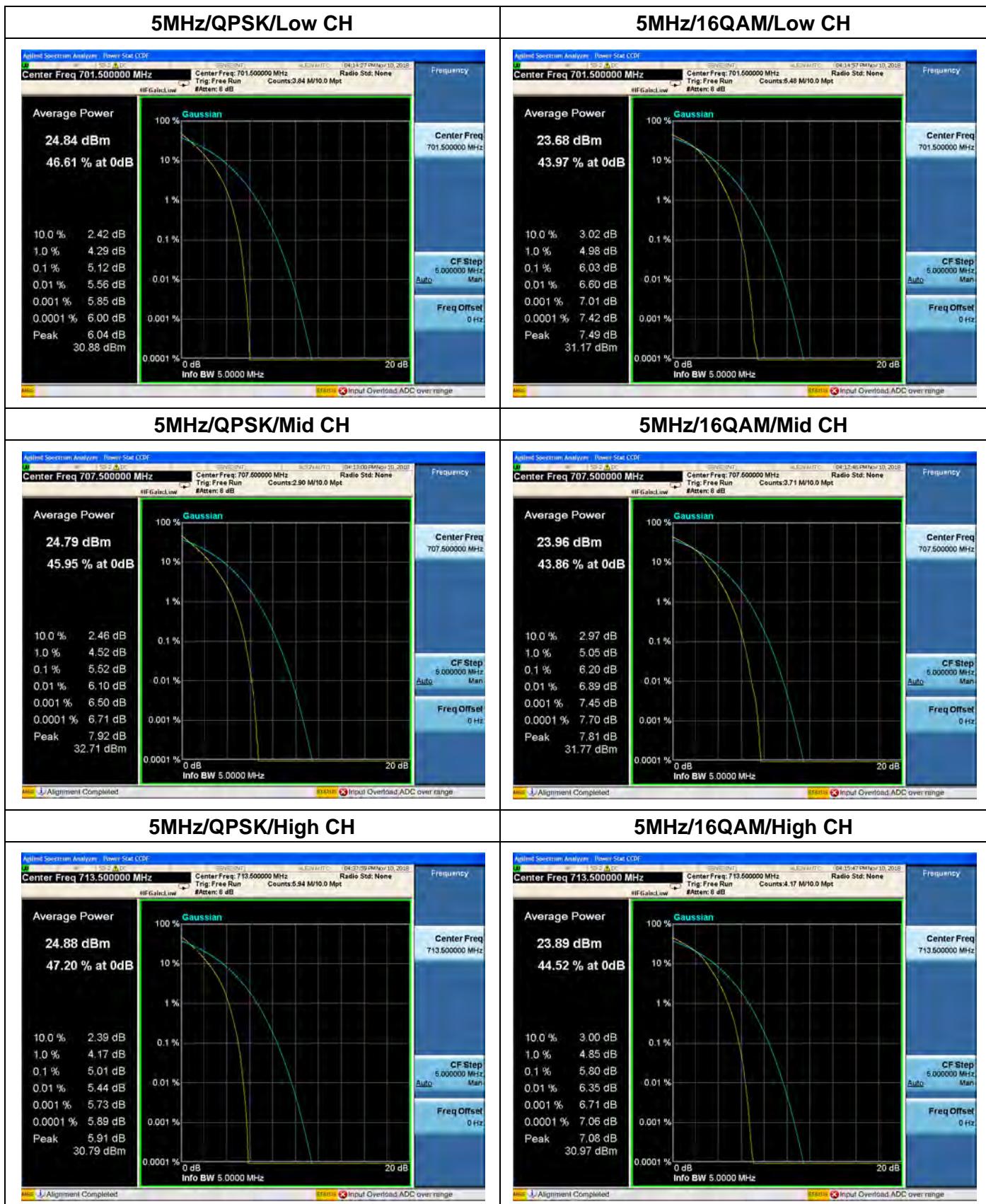
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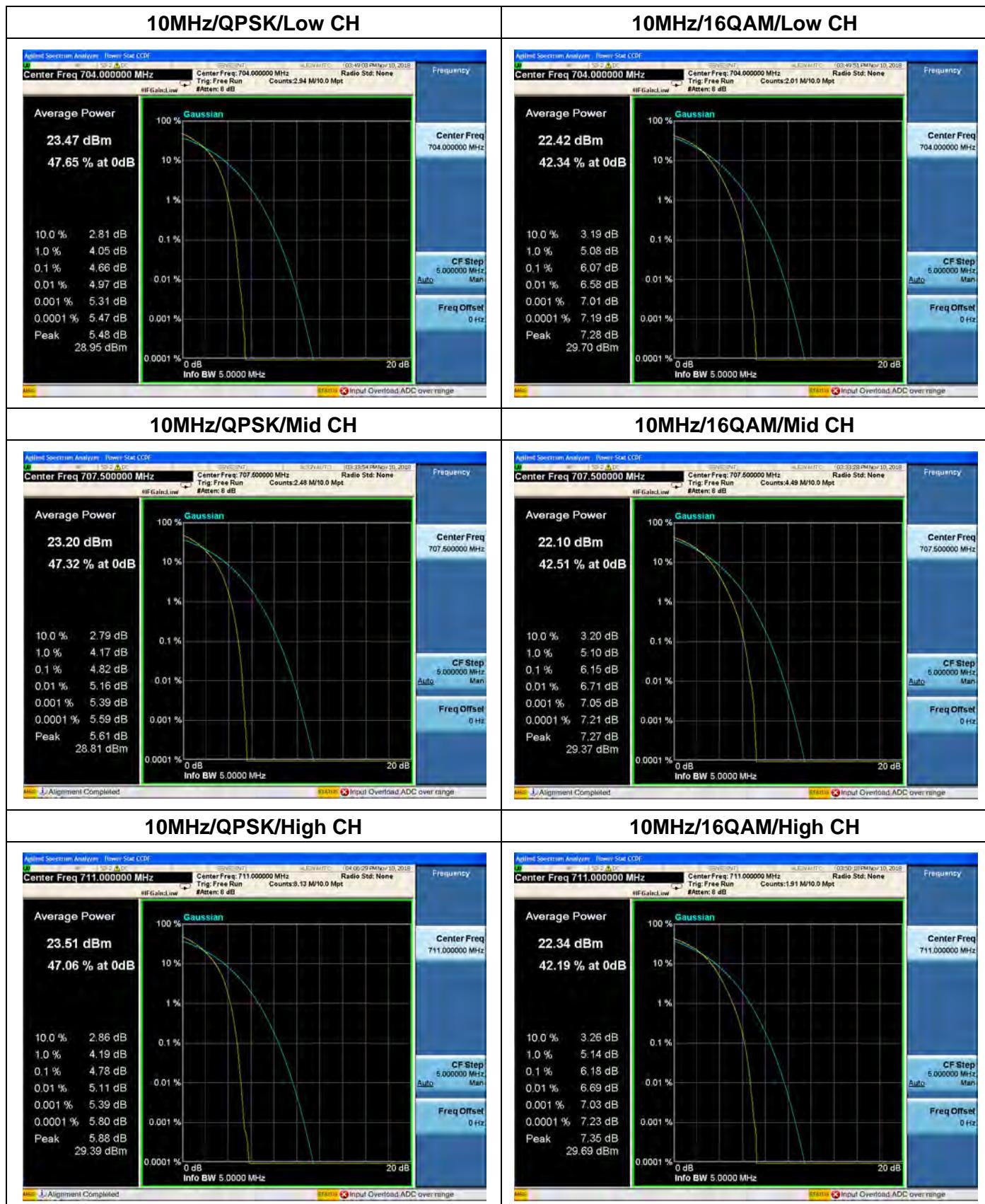
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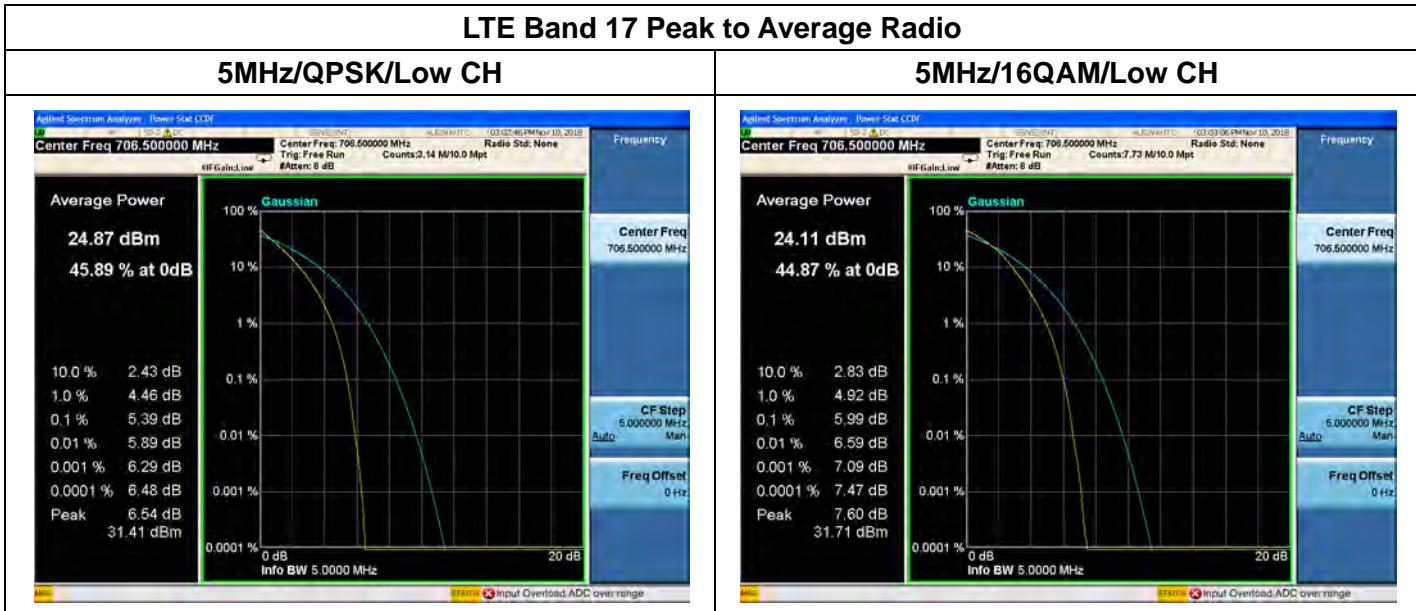
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LTE Band 17, BW: 5MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23755	706.5	5.39	5.99
23790	710.0	5.51	6.31
23825	713.5	5.02	5.87

LTE Band 1, BW: 10MHz

Channel	Frequency (MHz)	Peak to Average Radio(dB)	
		QPSK	16QAM
23780	709.0	4.87	6.19
23790	710.0	4.84	6.17
23800	711.0	4.79	6.21

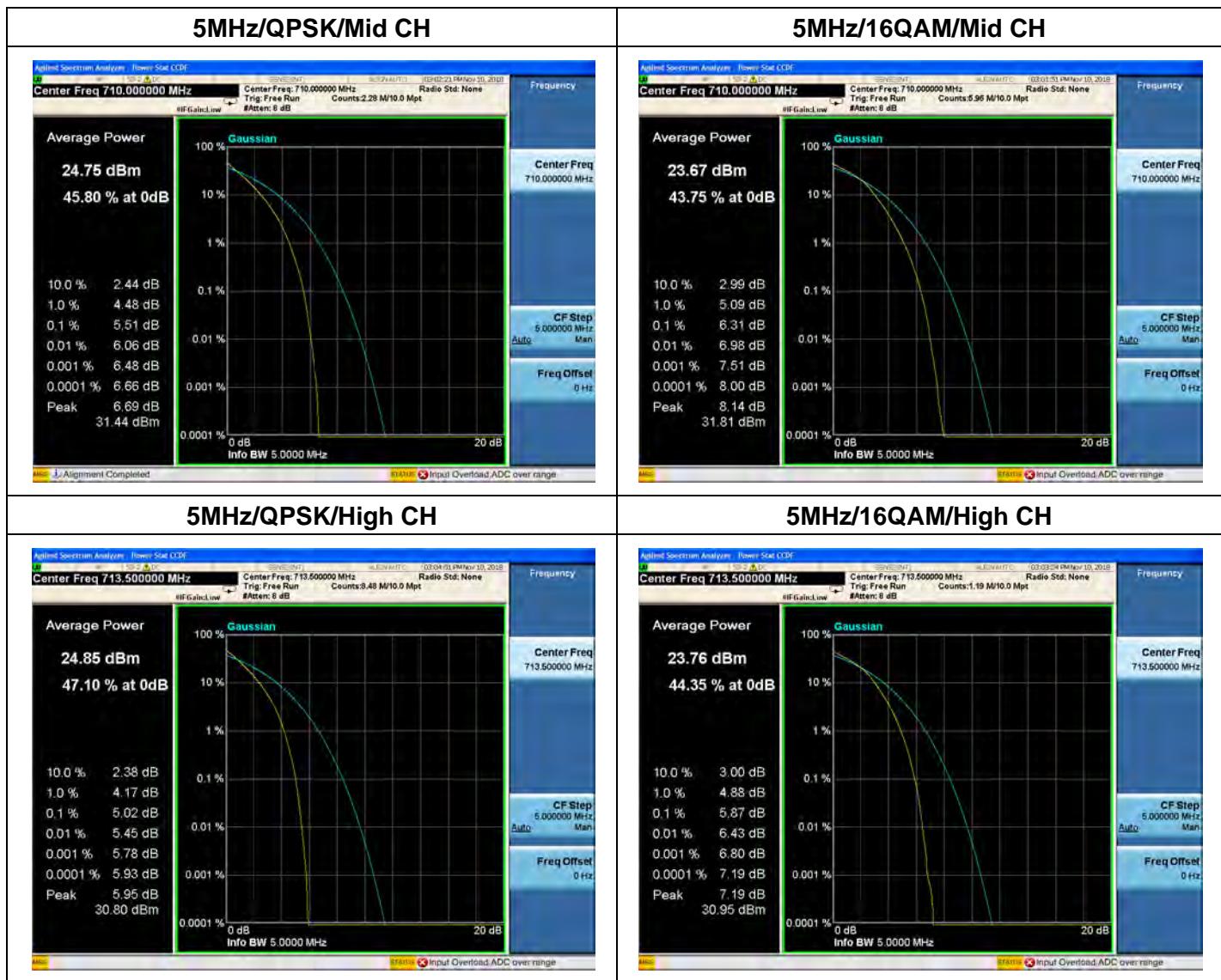
LTE Band 17 Peak to Average Radio**5MHz/QPSK/Low CH****5MHz/16QAM/Low CH****MORLAB**

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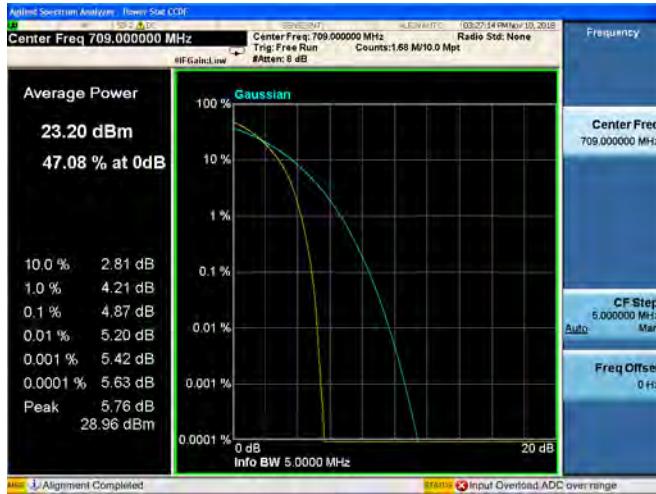
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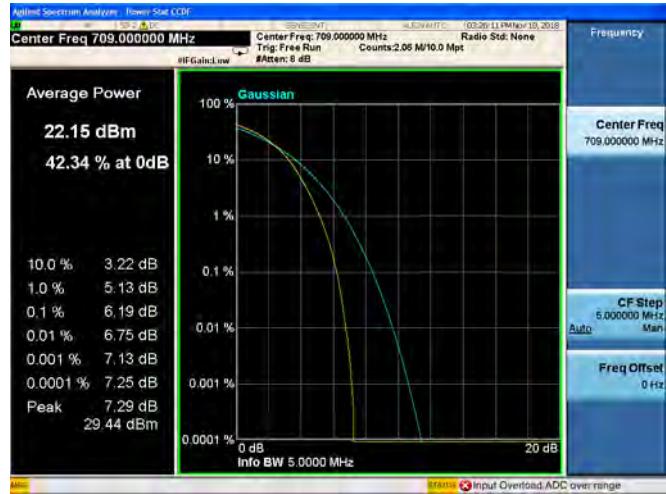


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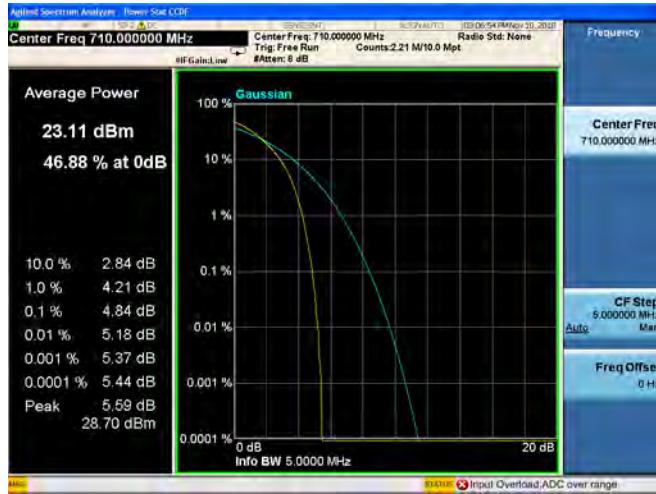
10MHz/QPSK/Low CH



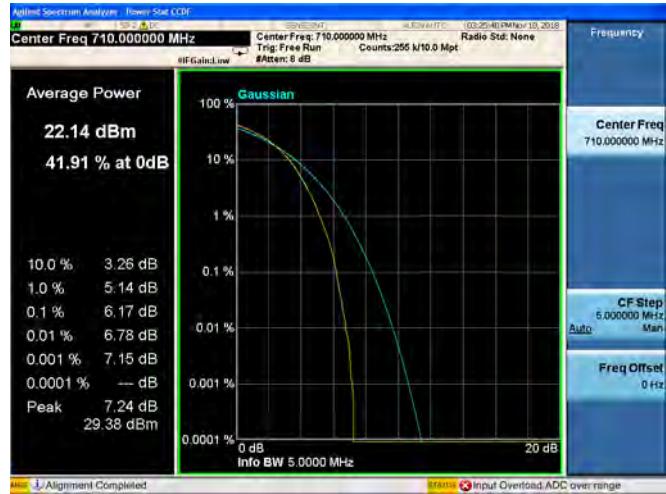
10MHz/16QAM/Low CH



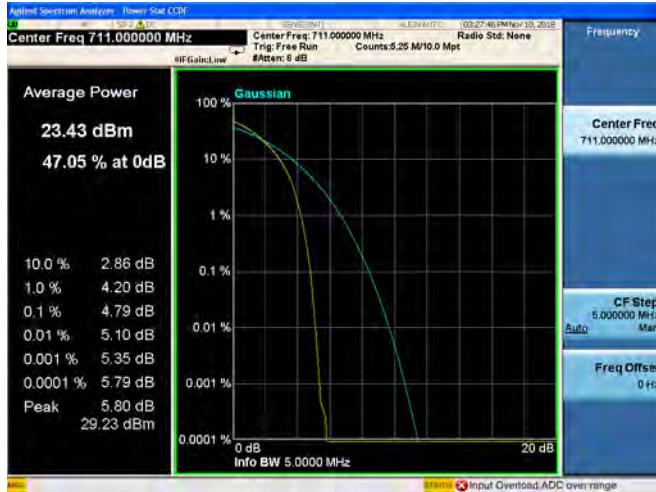
10MHz/QPSK/Mid CH



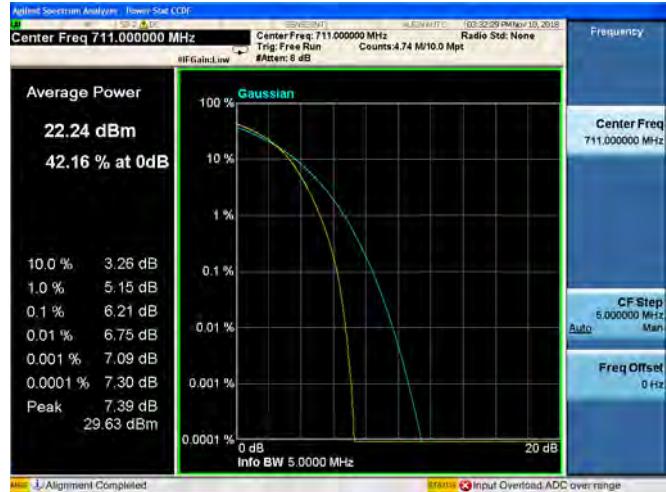
10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



10MHz/16QAM/High CH



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2.5. Conducted Spurious Emissions

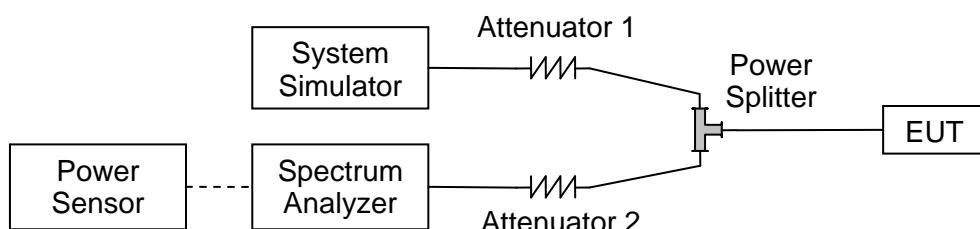
2.5.1. Requirement

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.

Additional requirement for LTE Band 7:

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 $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

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

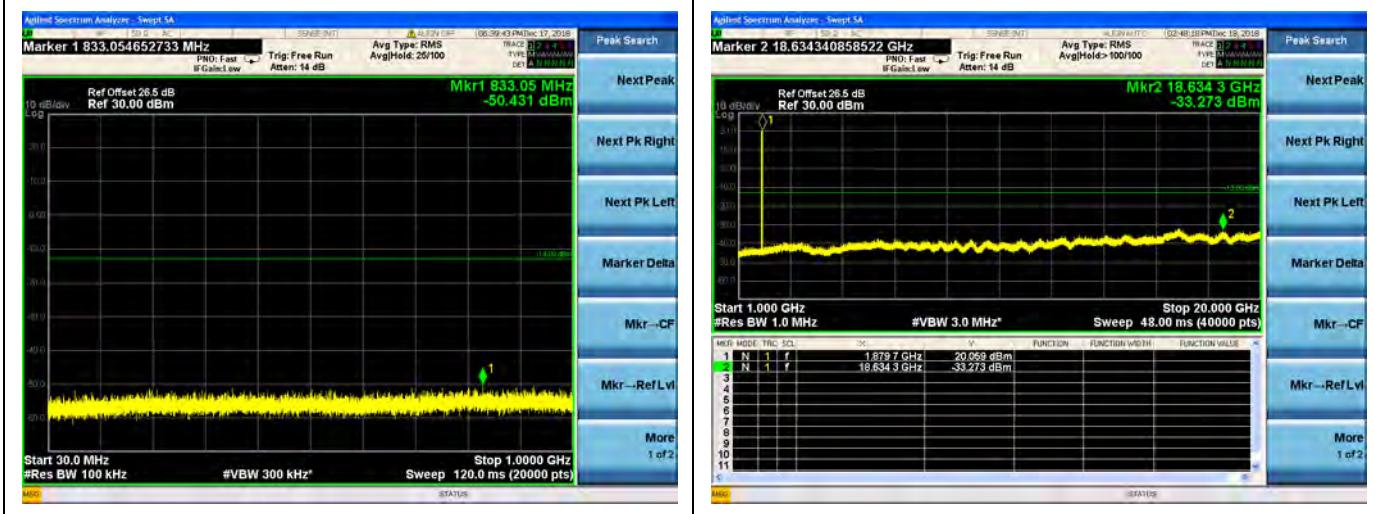


REPORT No.: SZ18100096W05

LTE Band 2 1.4MHz BW Low Channel QPSK



16QAM



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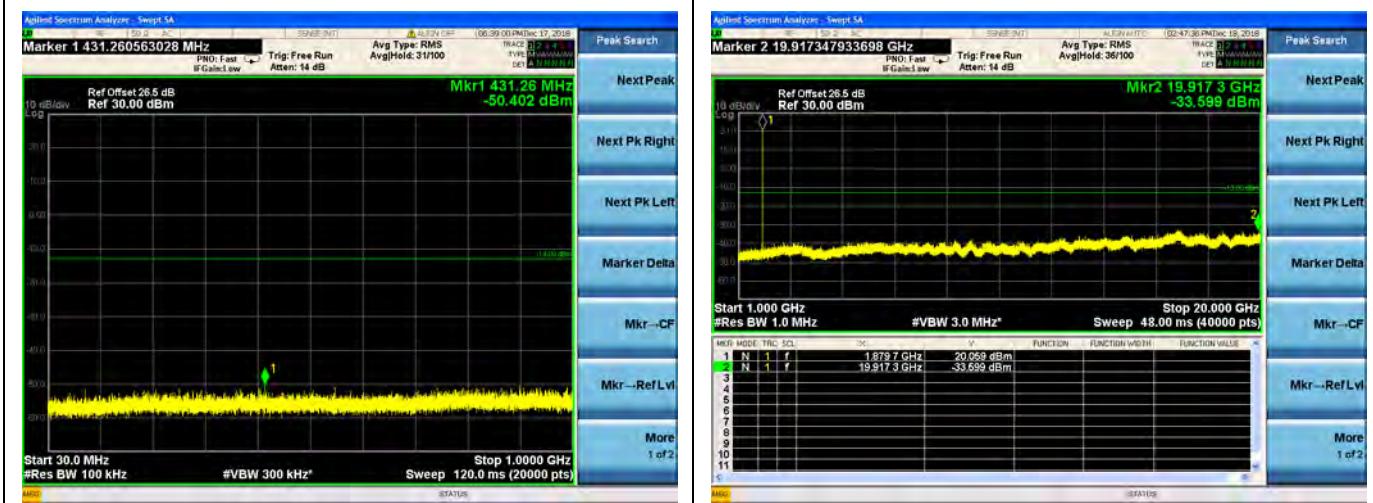
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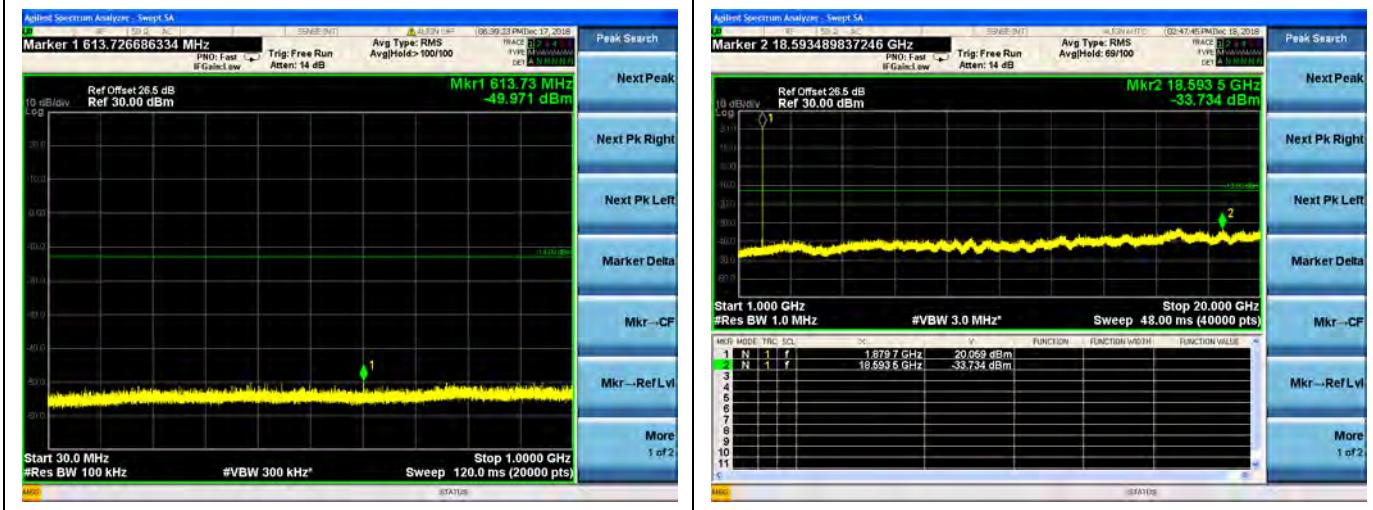


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LTE Band 2 1.4MHz BW Mid Channel QPSK



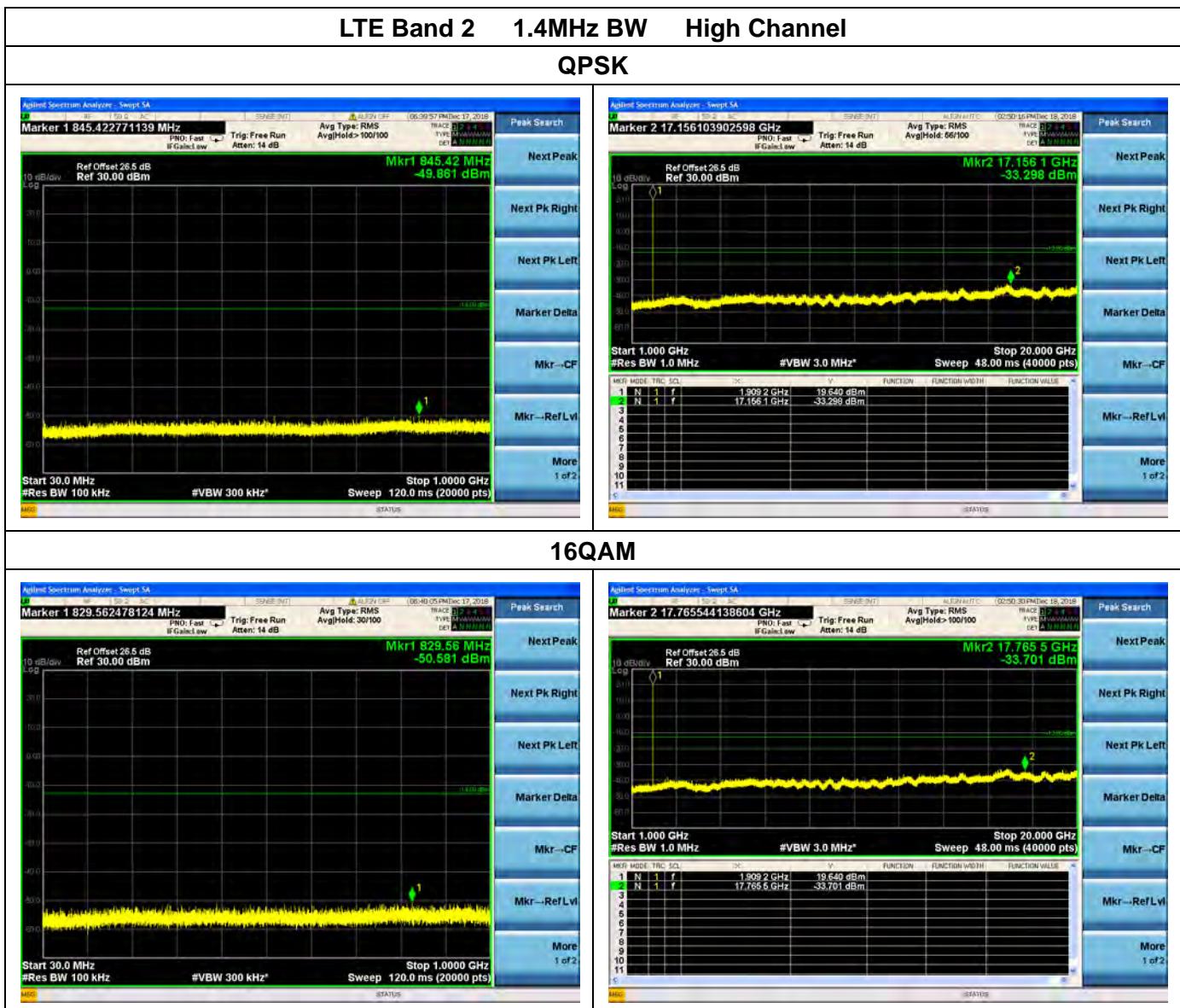
16QAM



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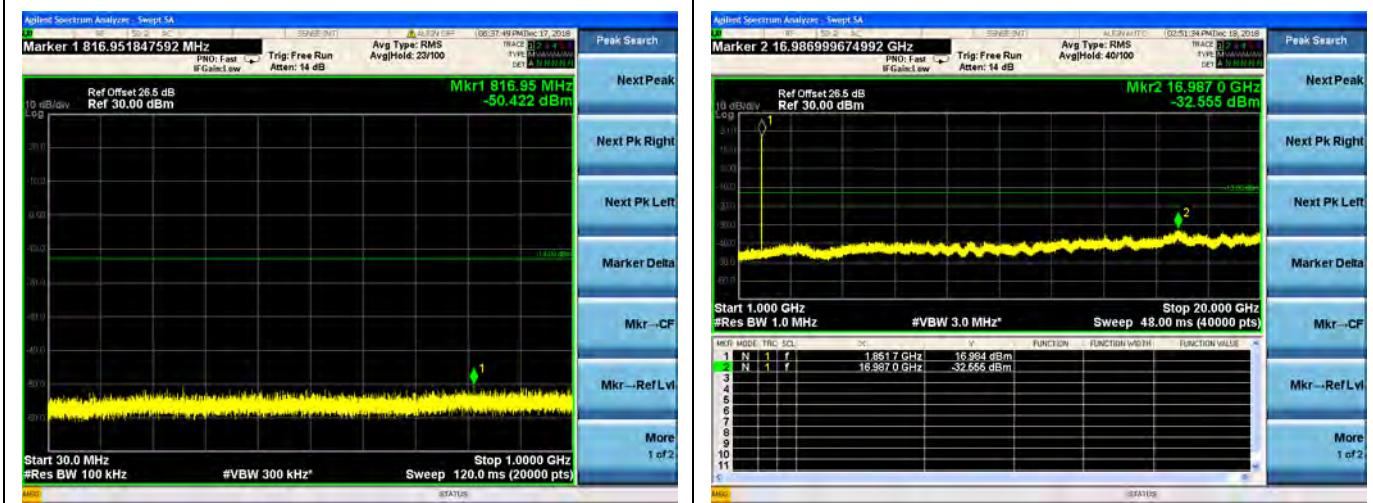
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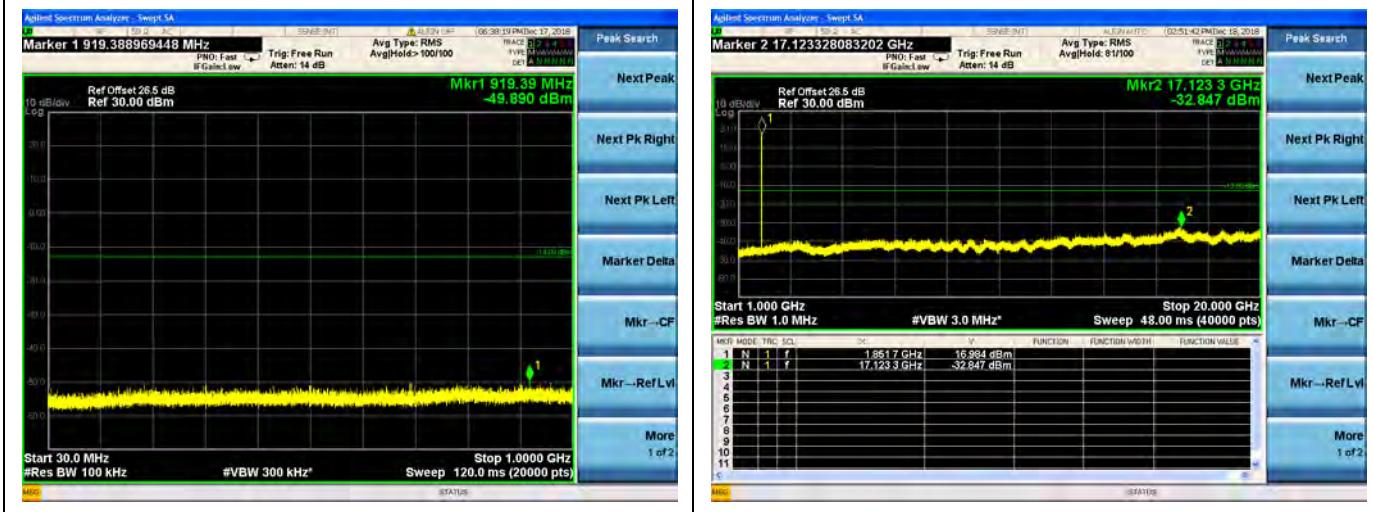


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16QAM



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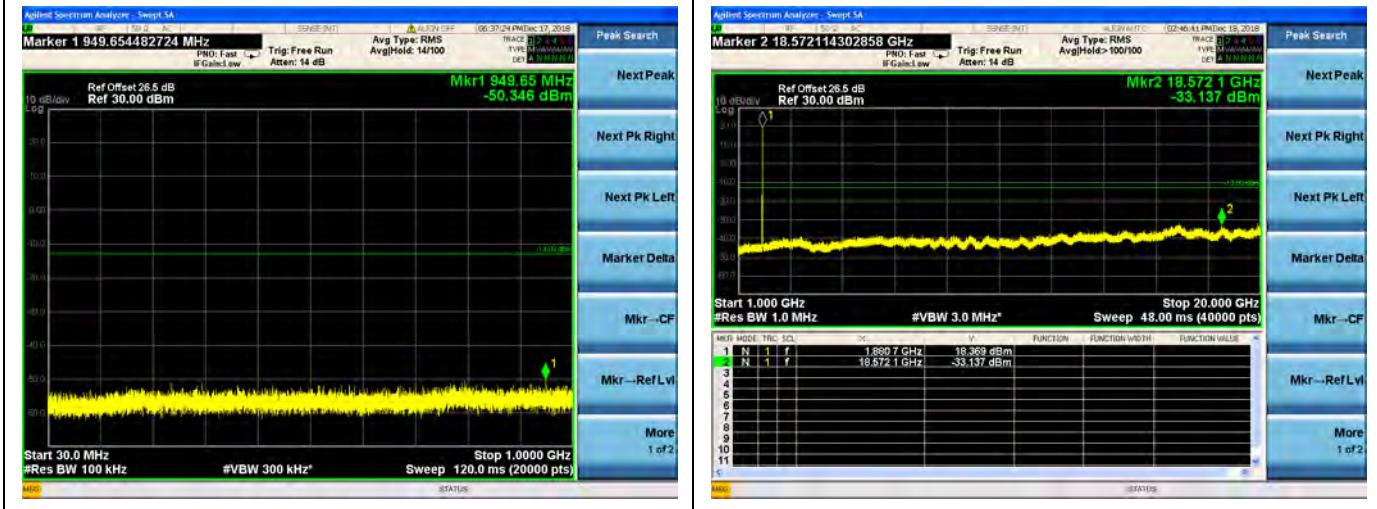


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LTE Band 2 3MHz BW Mid Channel QPSK



16QAM



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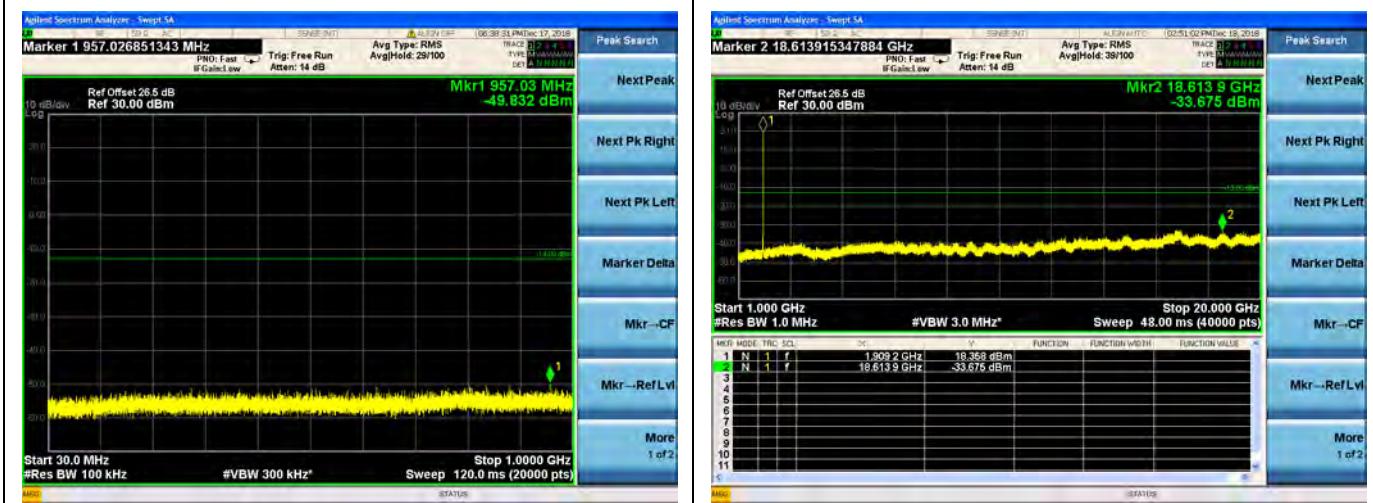
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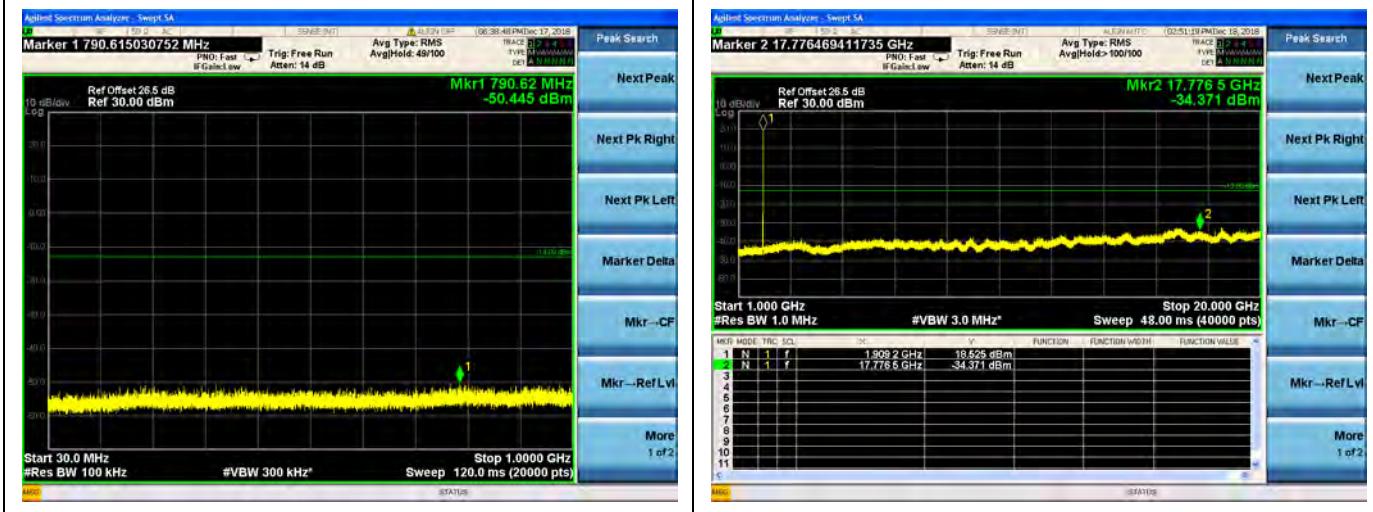


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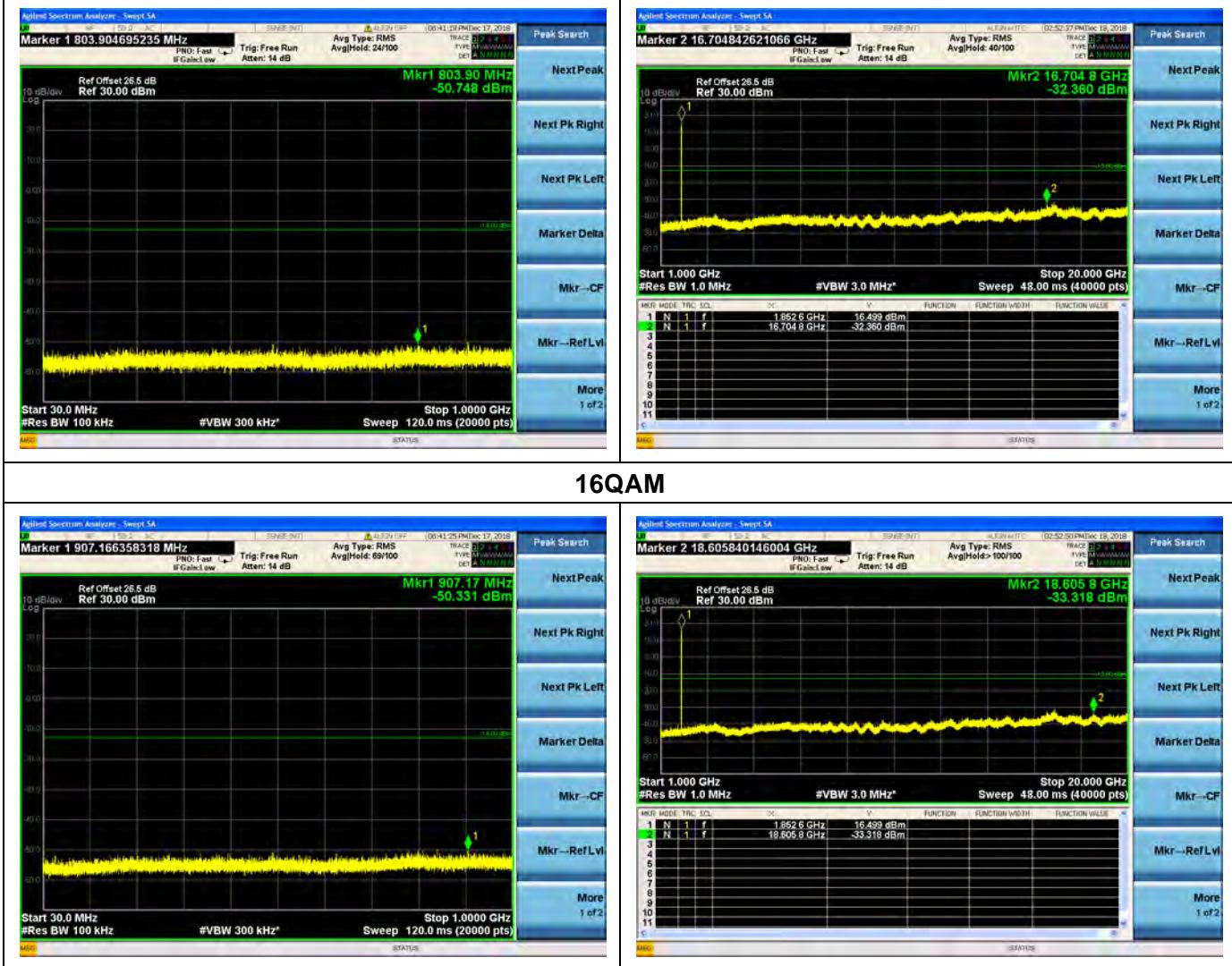


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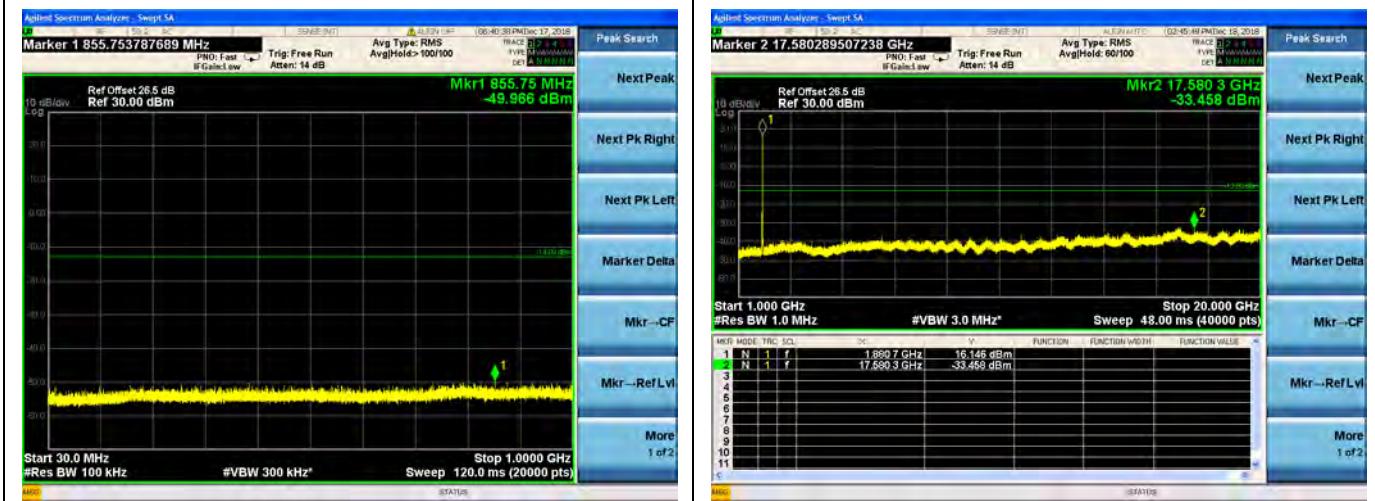
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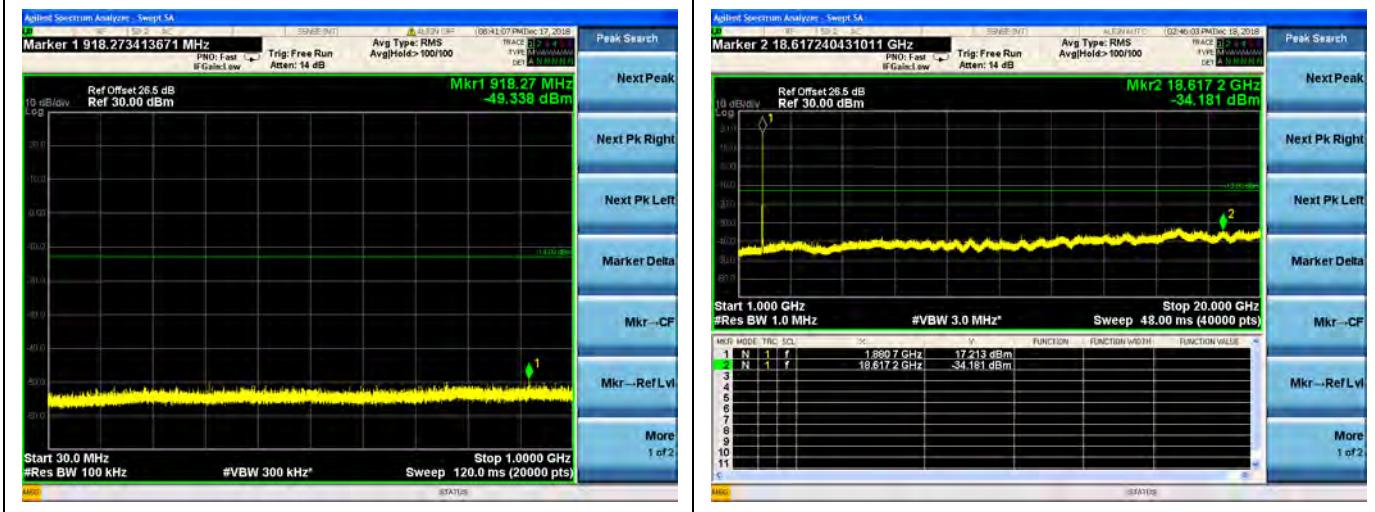


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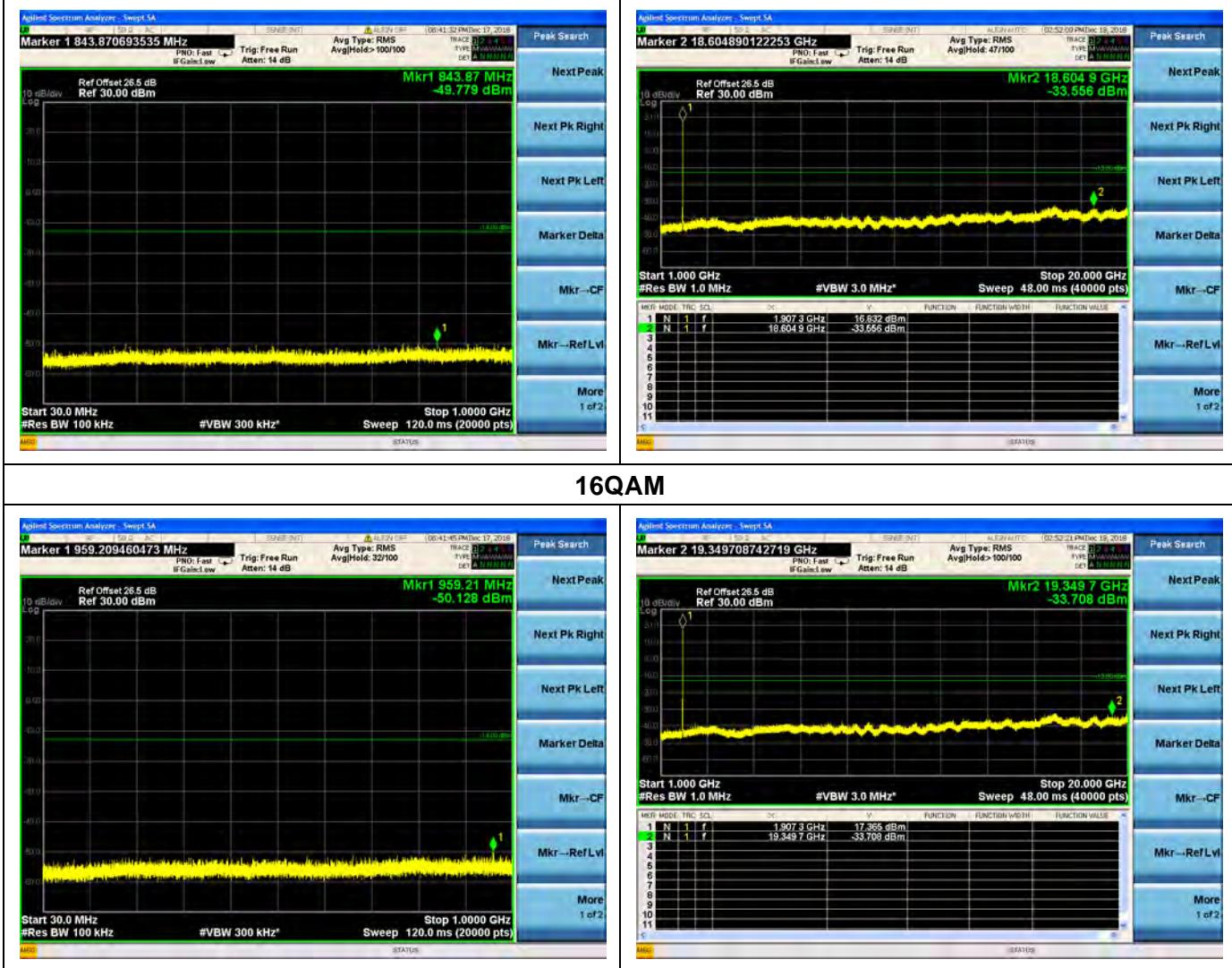


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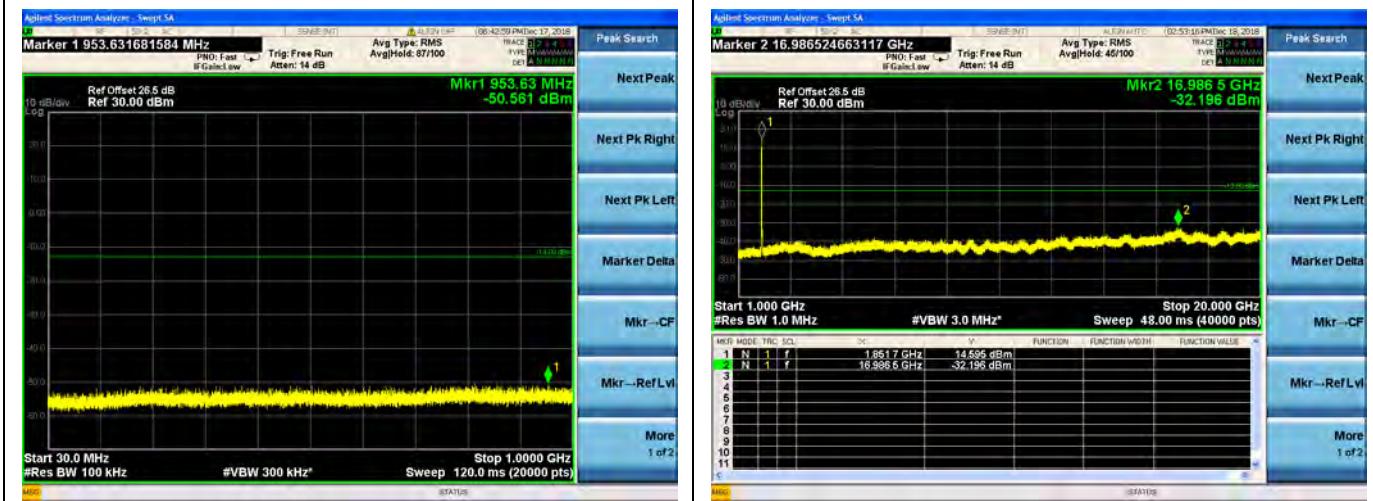
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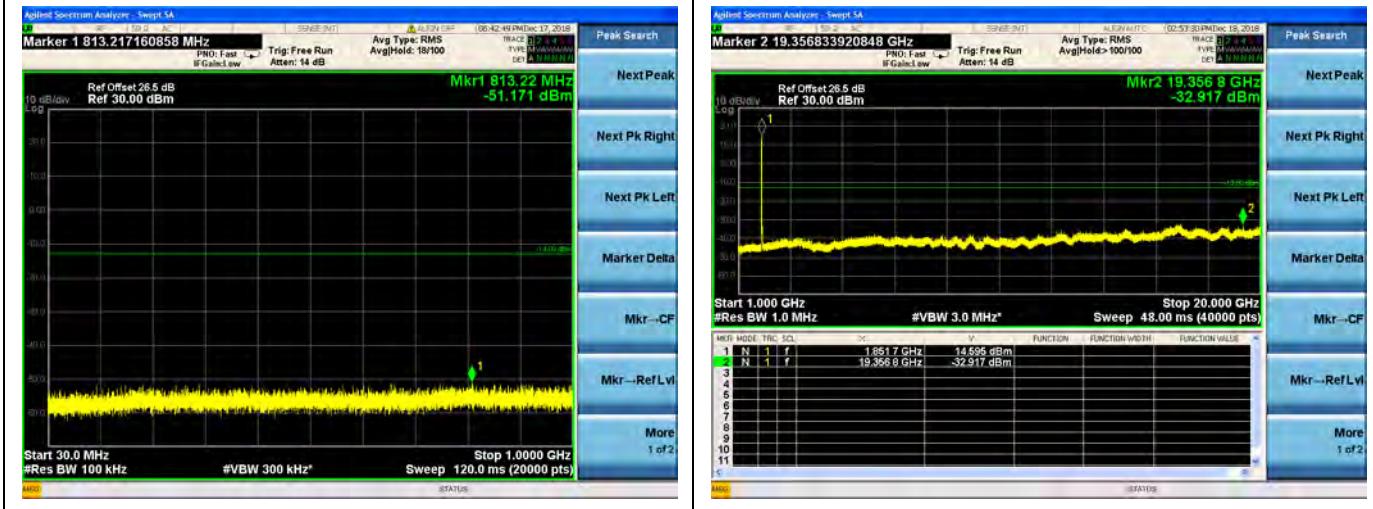


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16QAM



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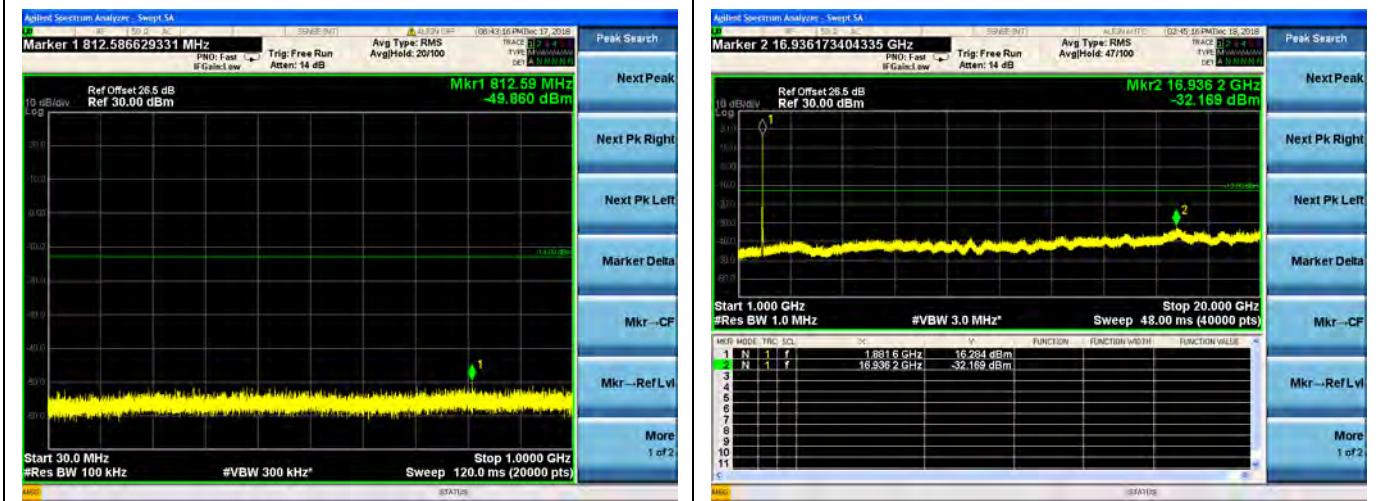
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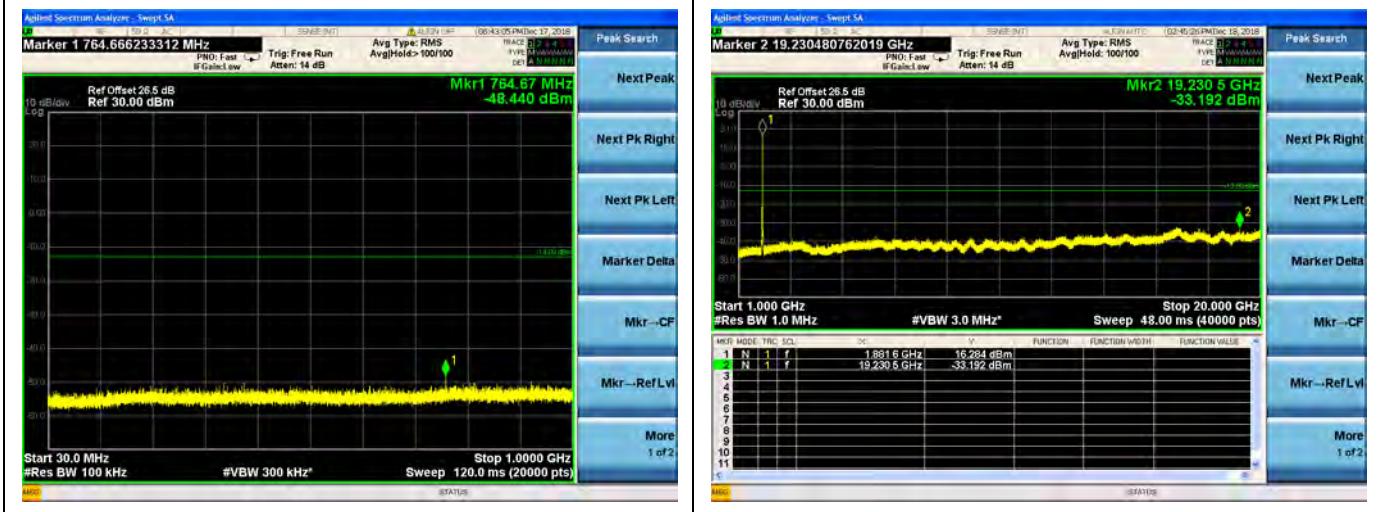


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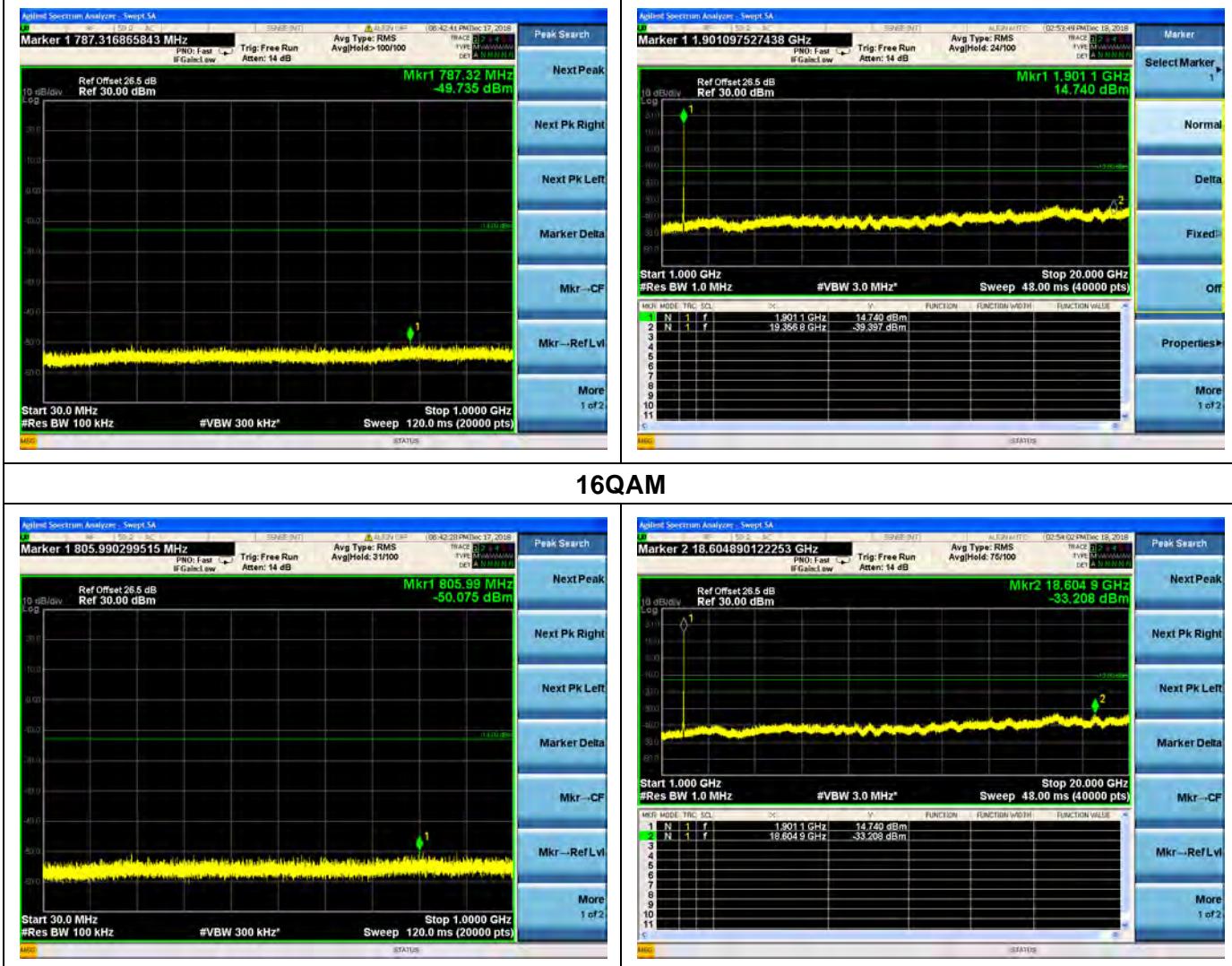


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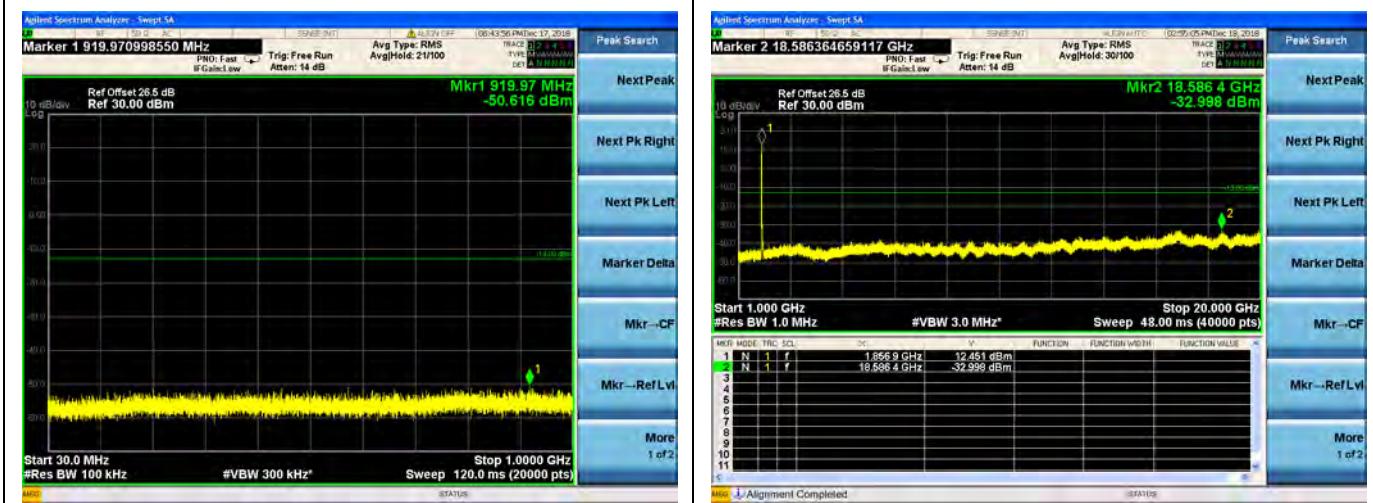
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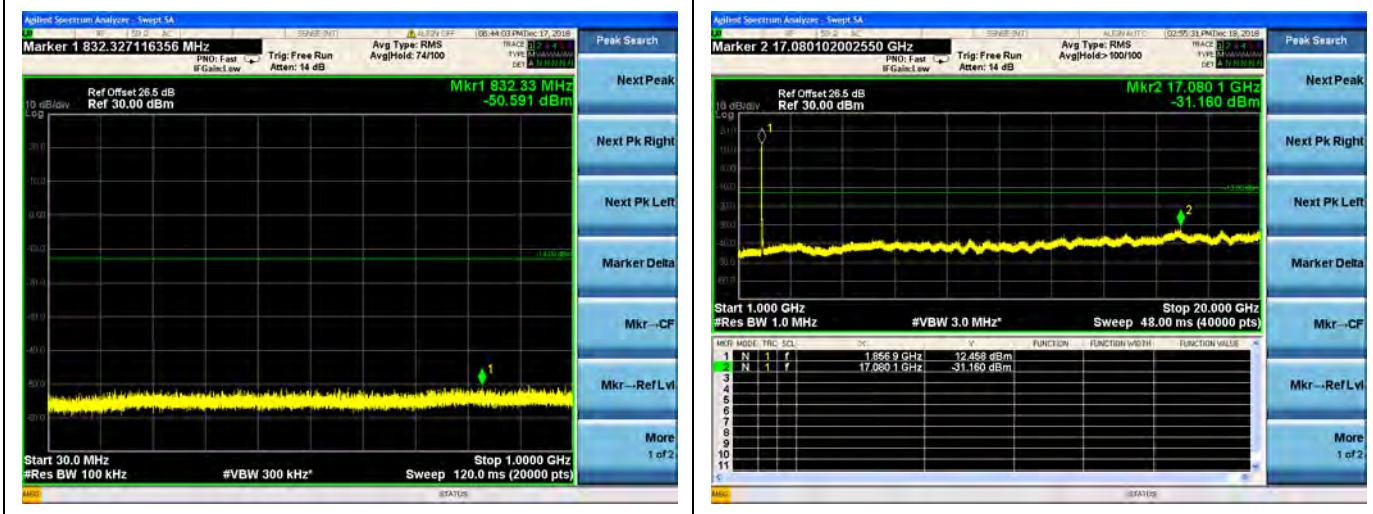


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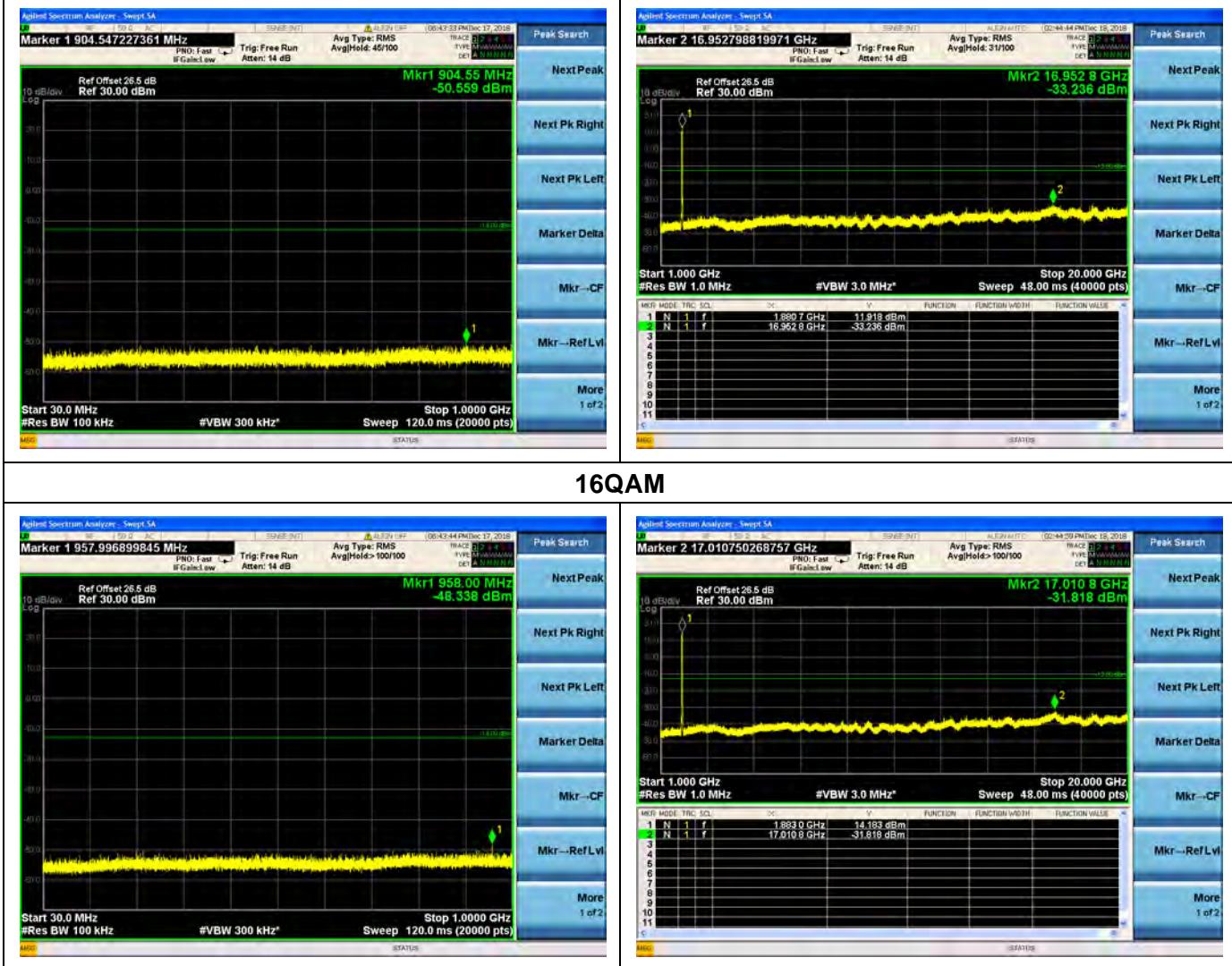
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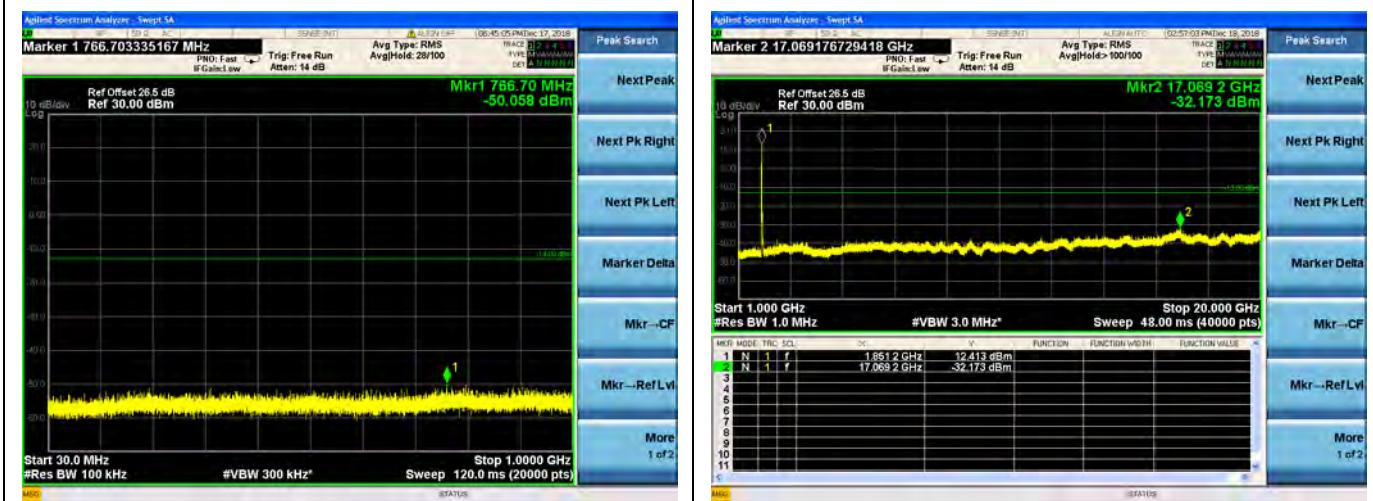
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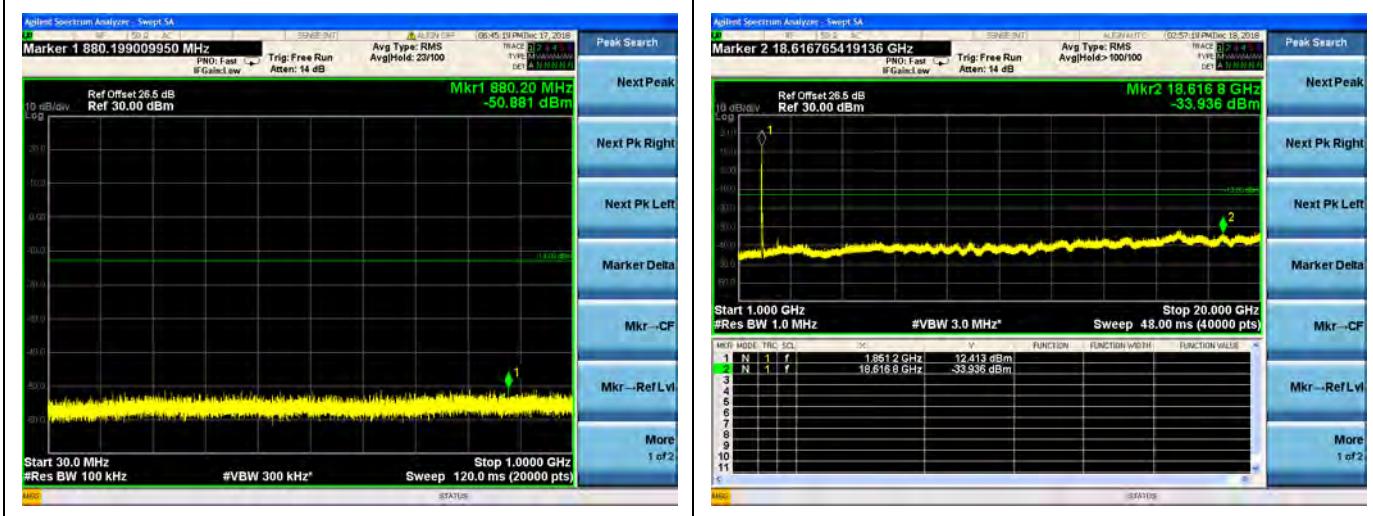


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LTE Band 2 20MHz BW Low Channel QPSK



16QAM



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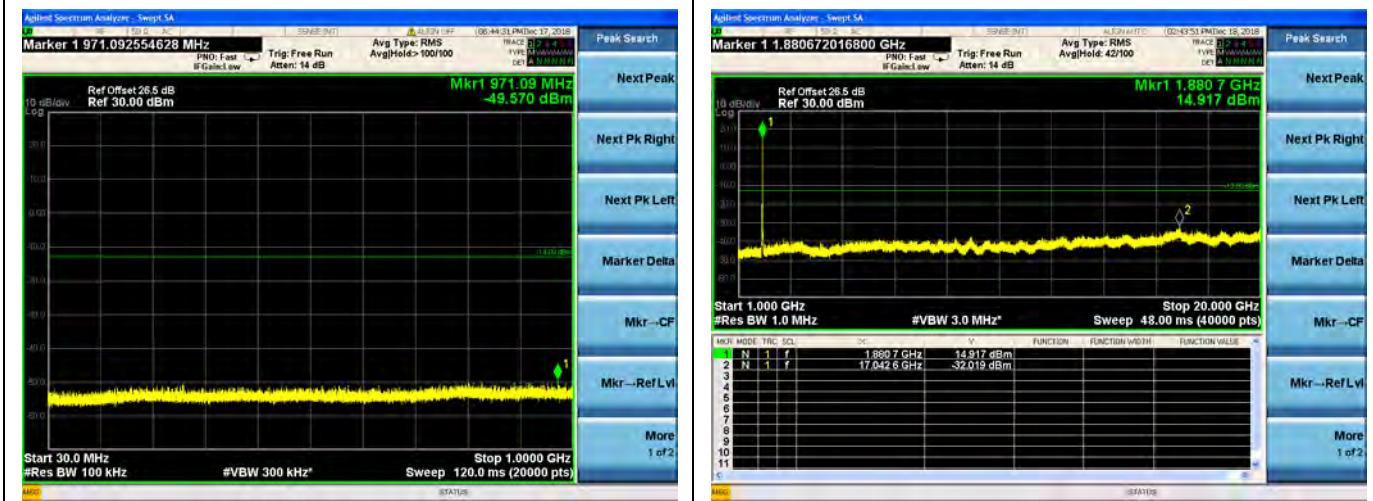
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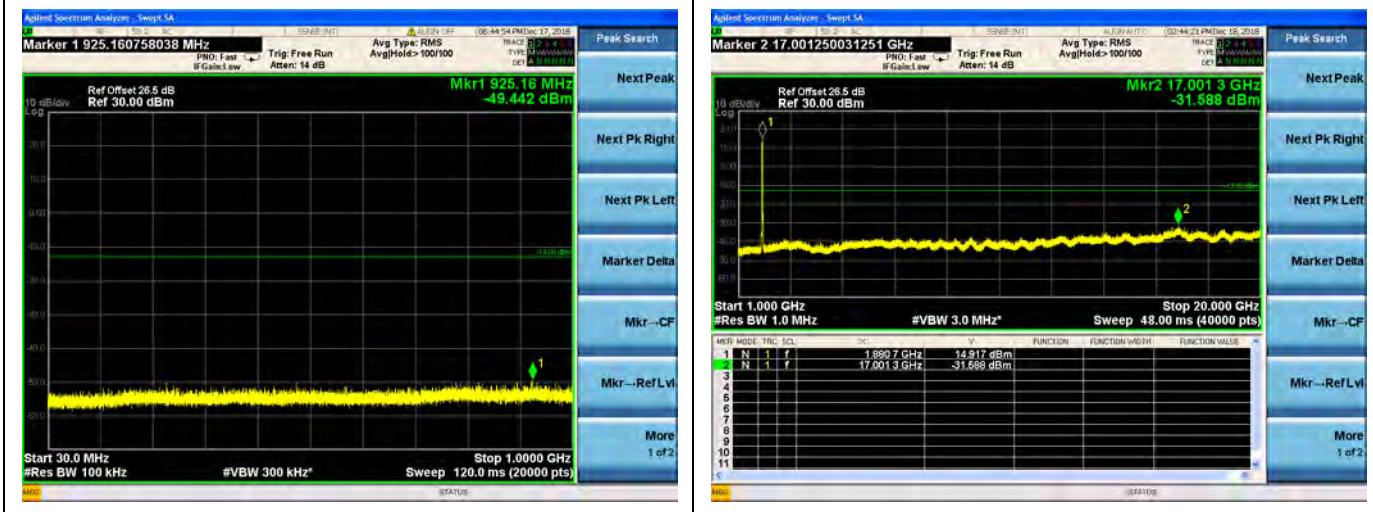


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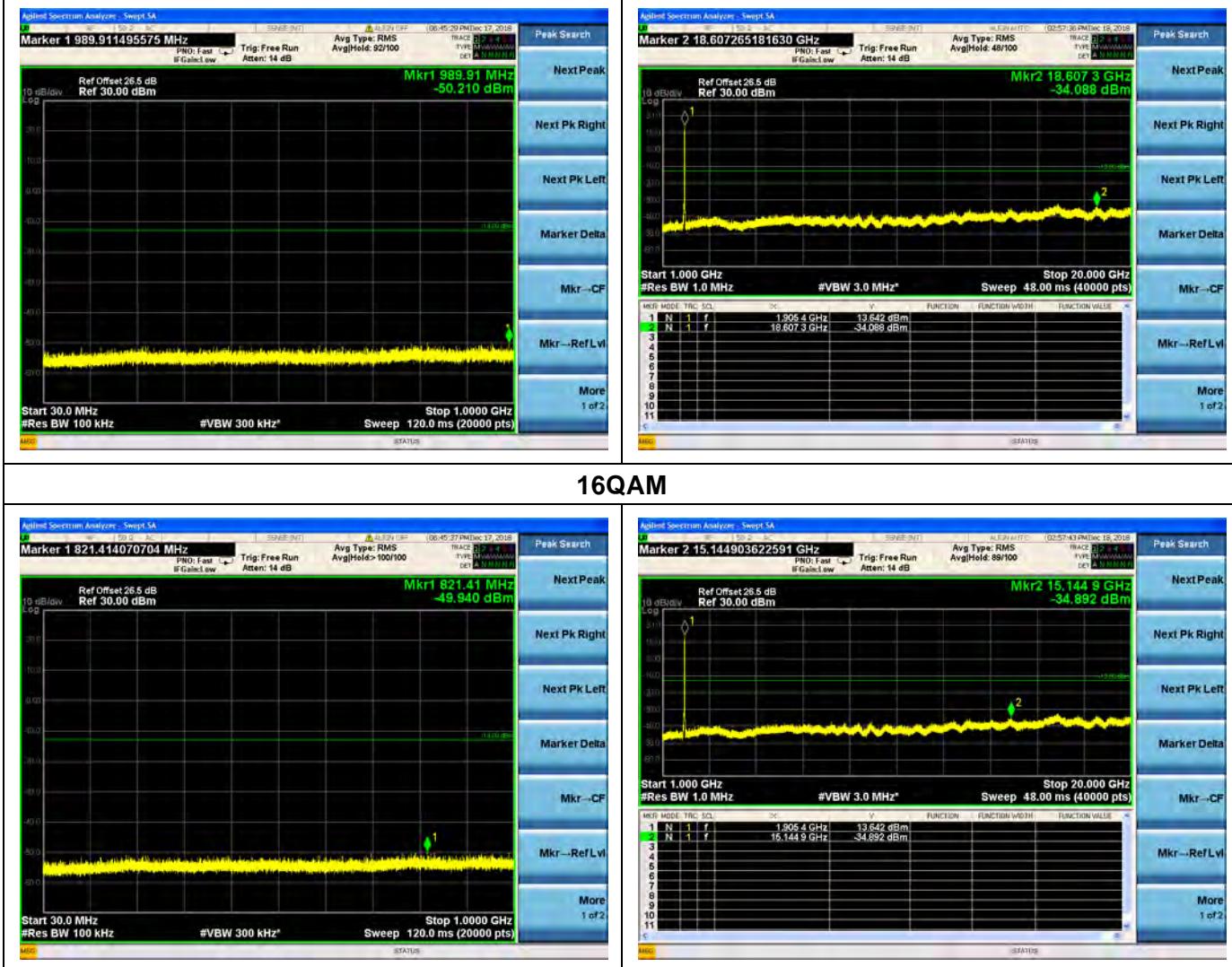
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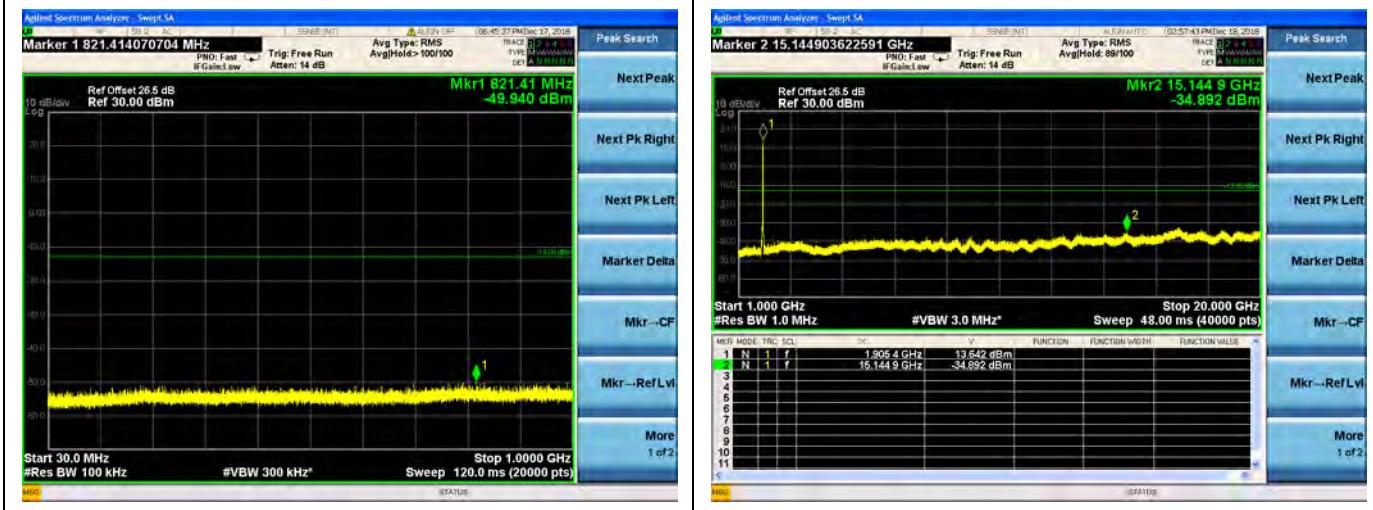


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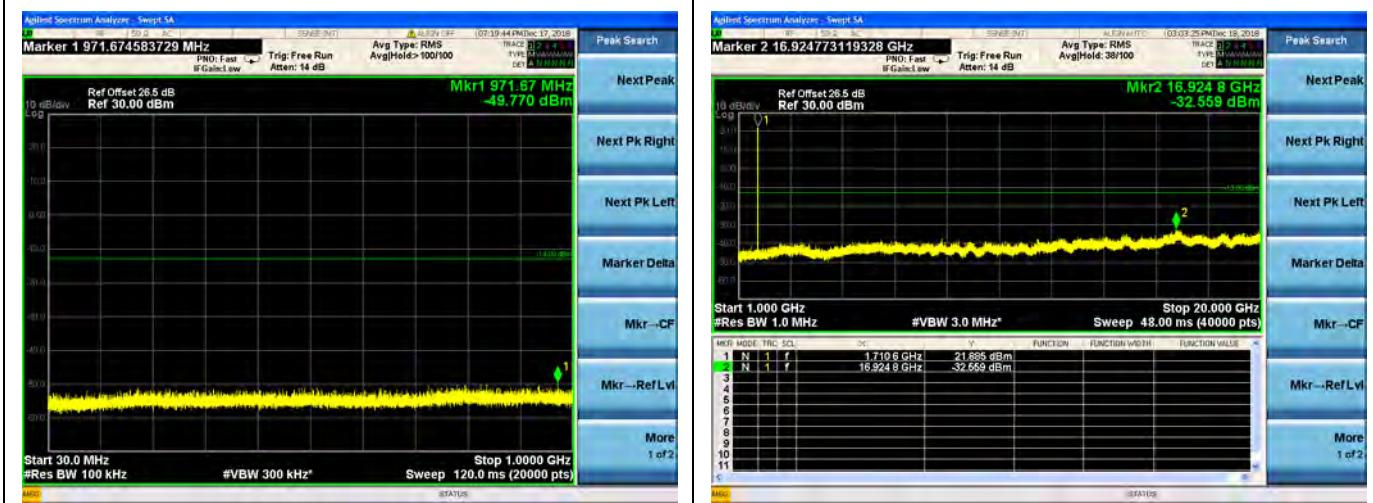
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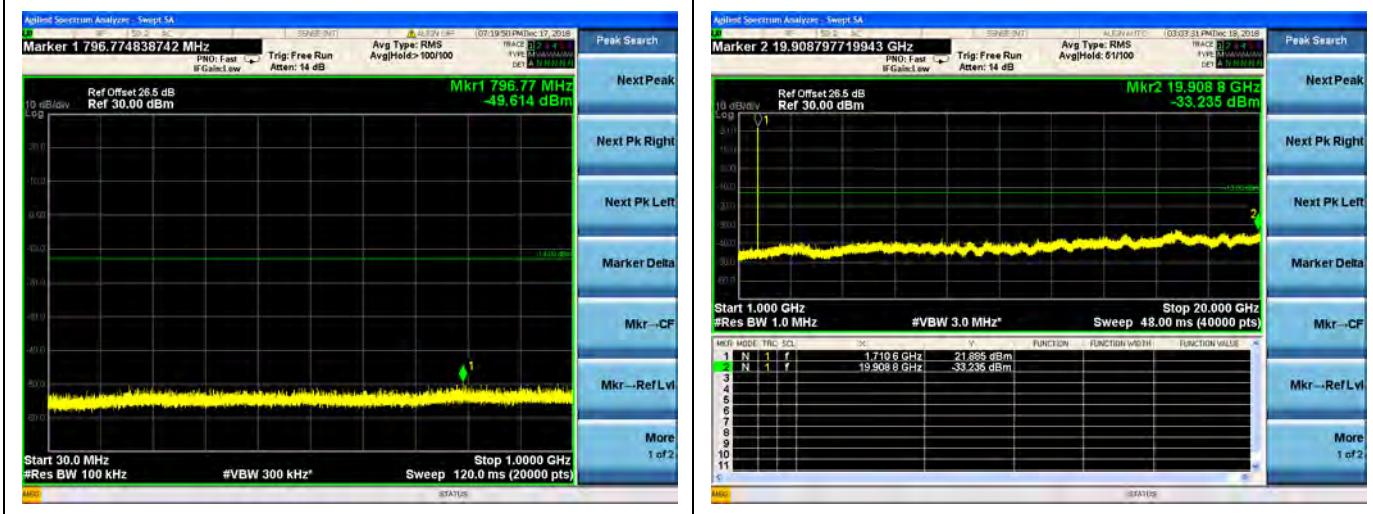


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LTE Band 4 1.4MHz BW Low Channel QPSK



16QAM



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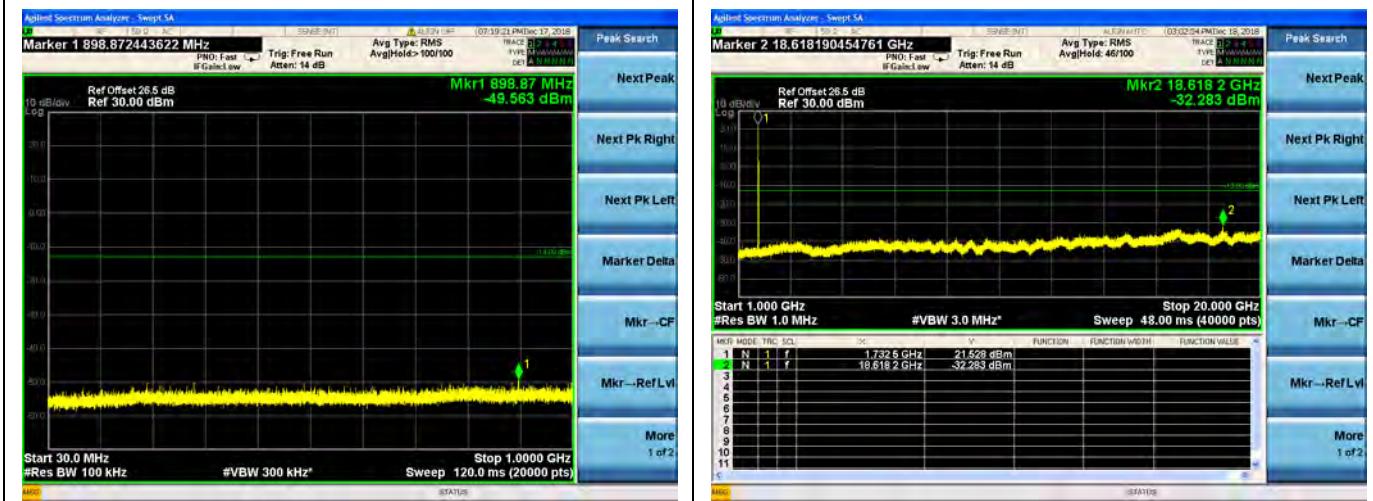
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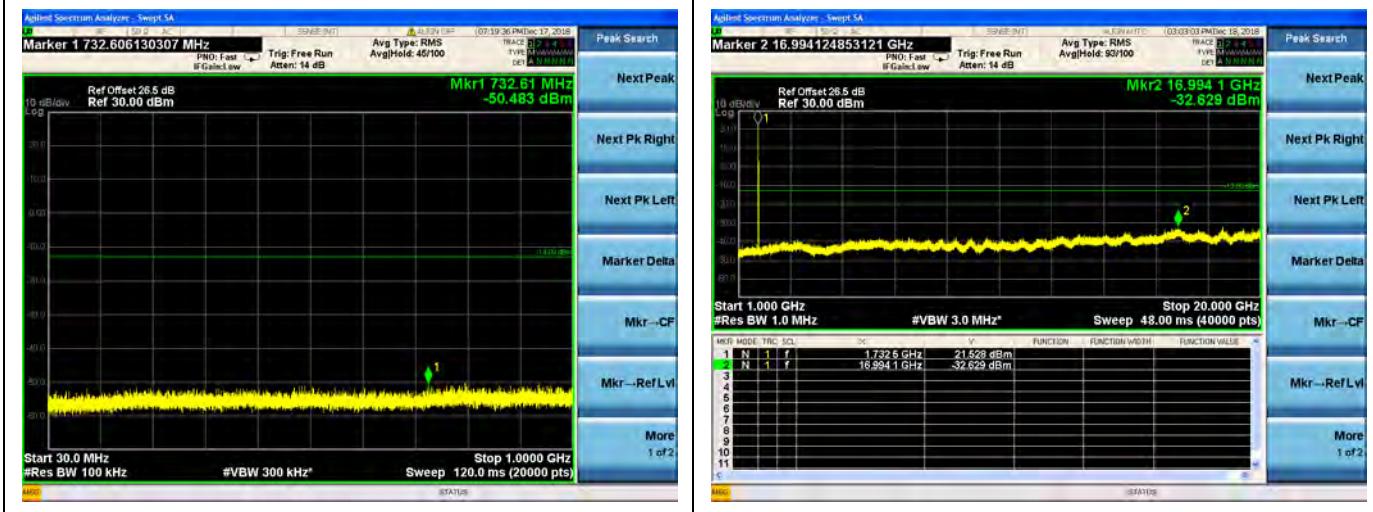


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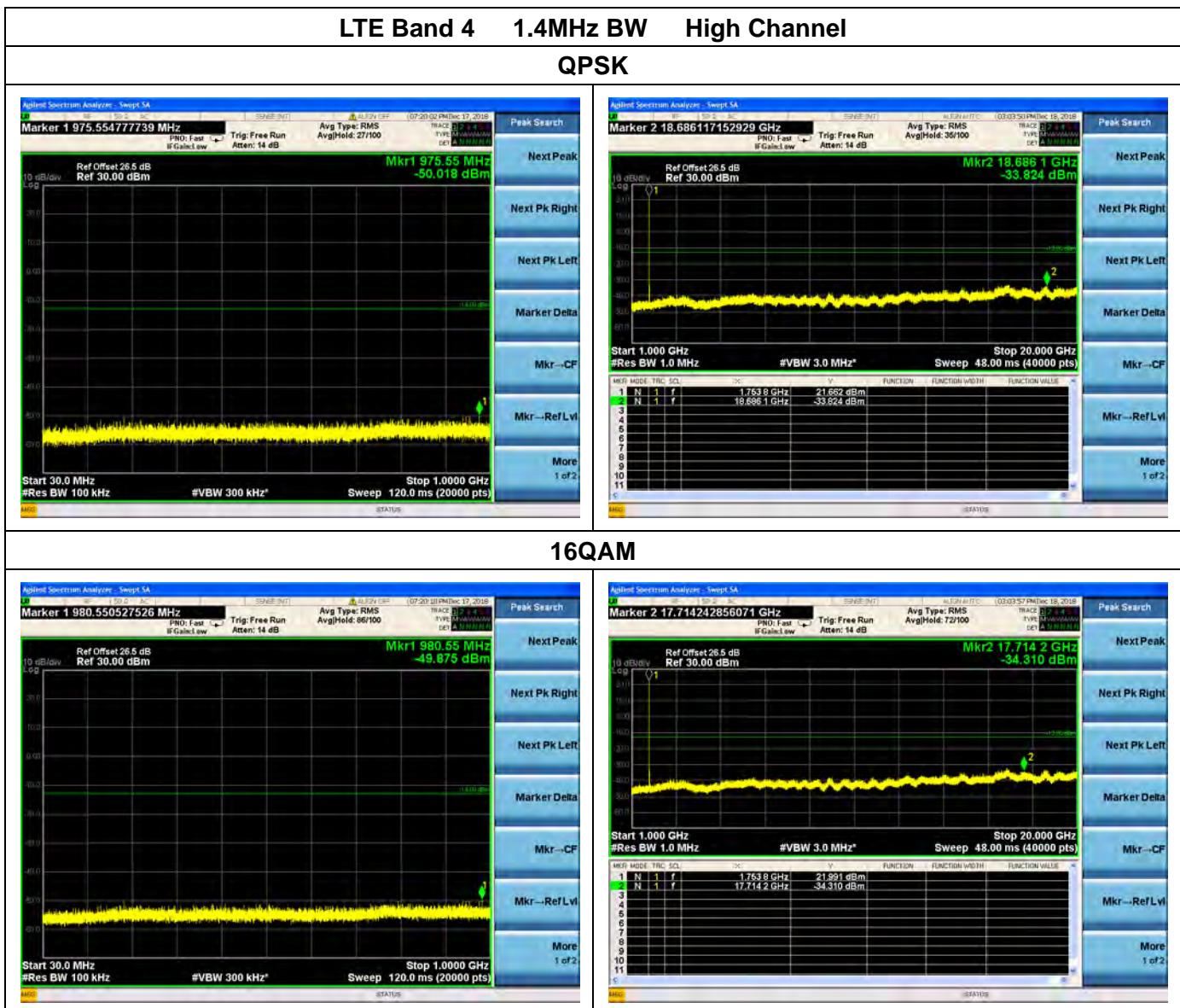
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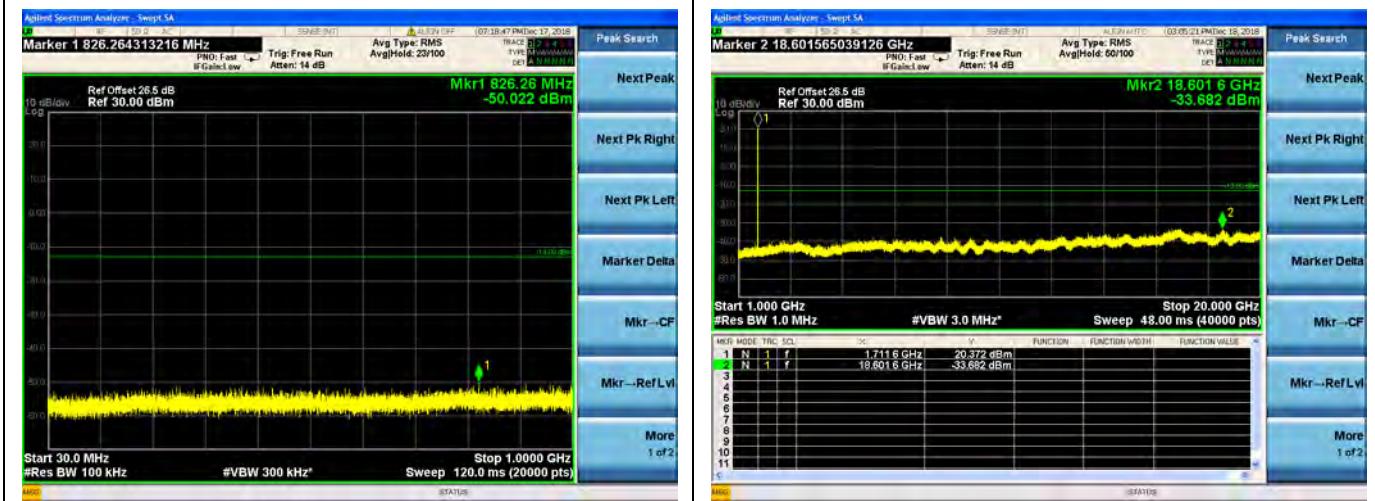
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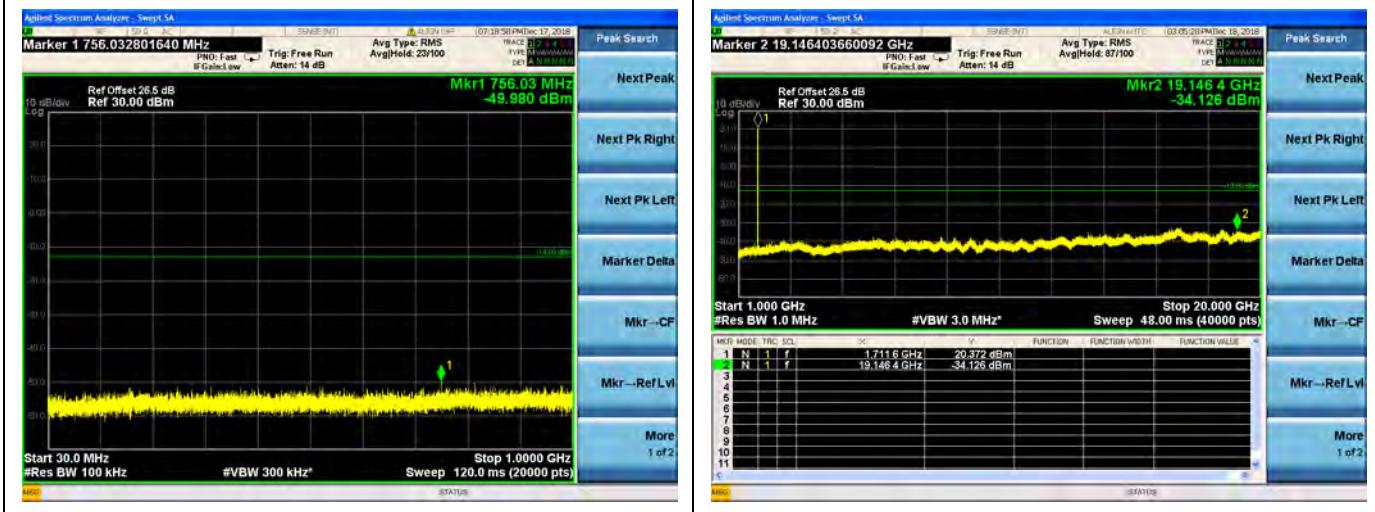
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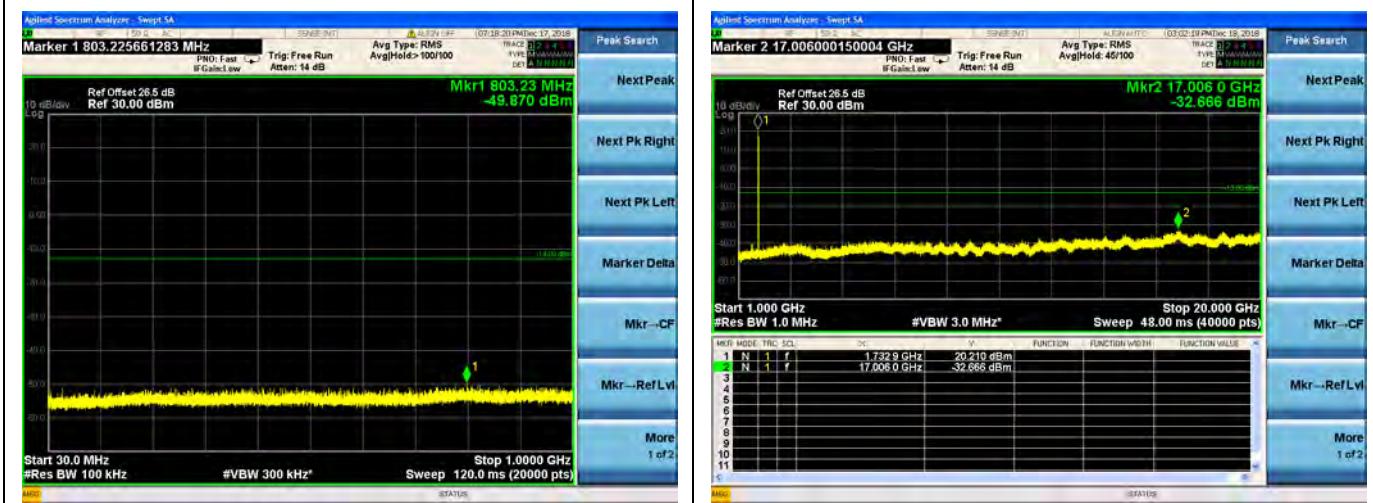
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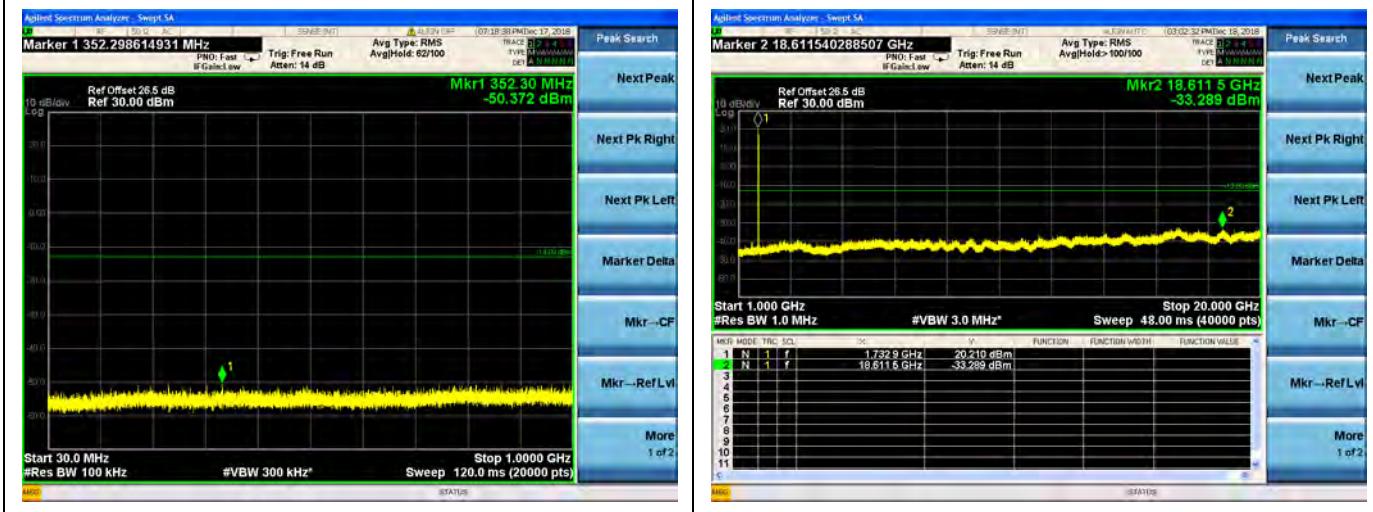


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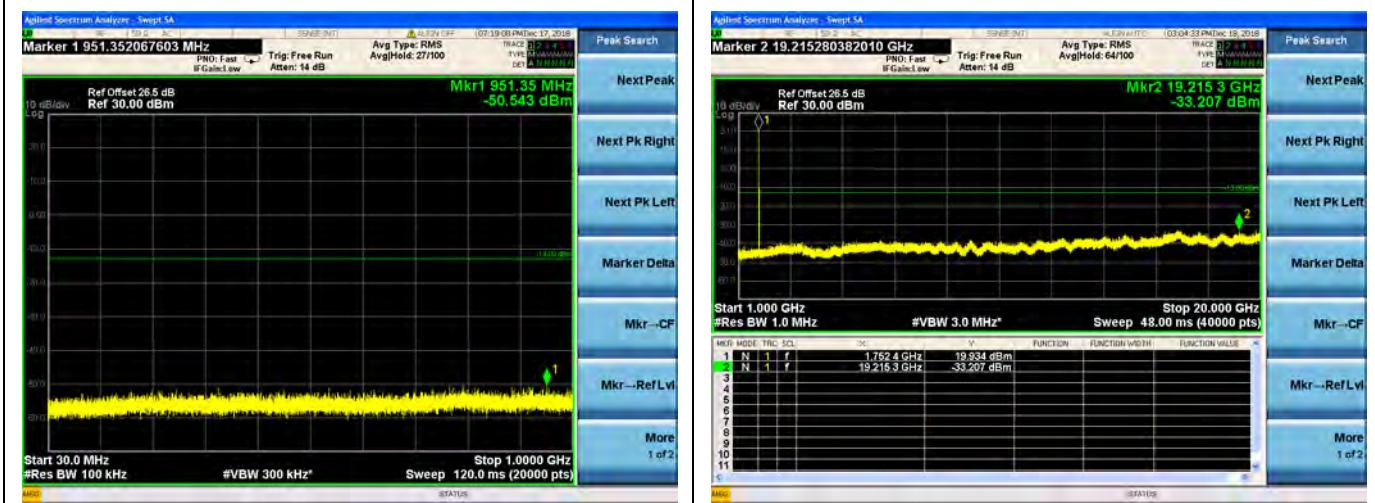


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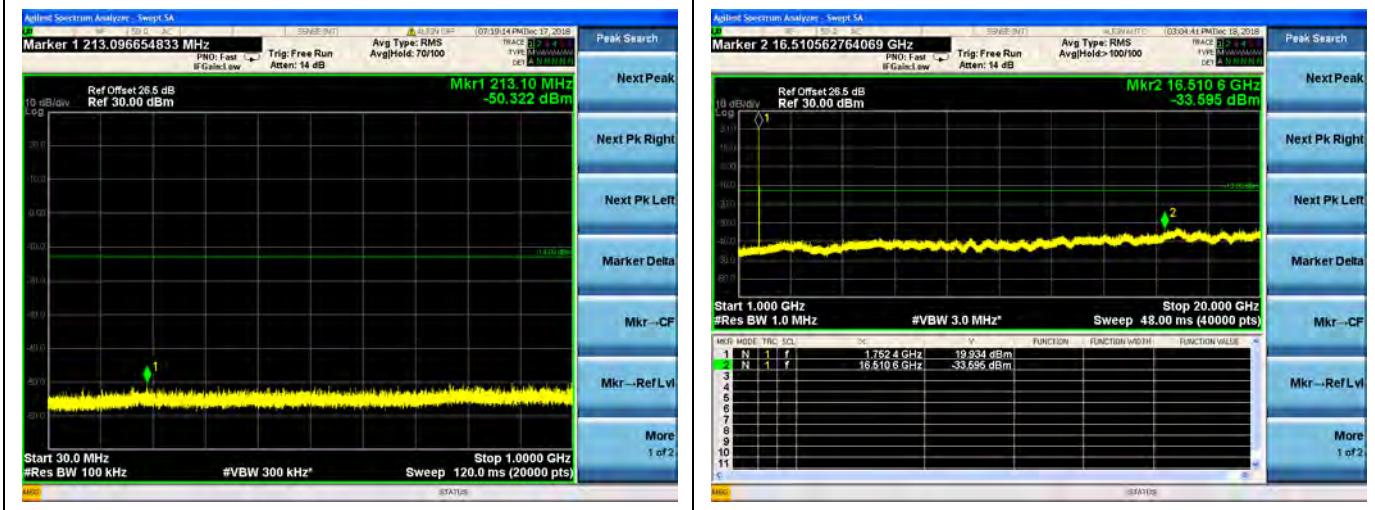
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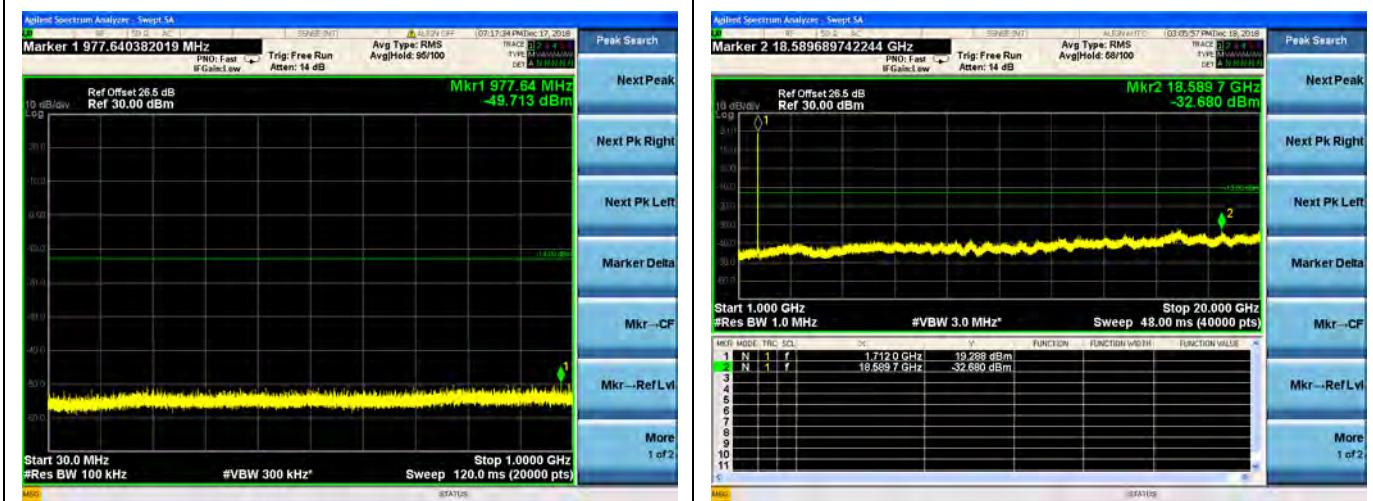
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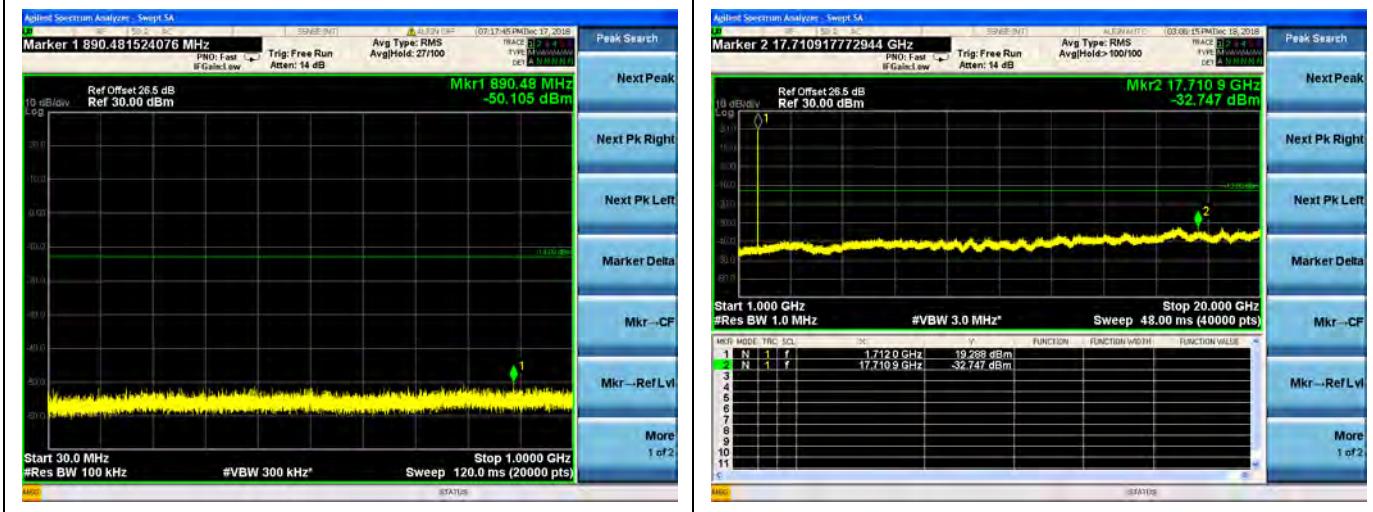


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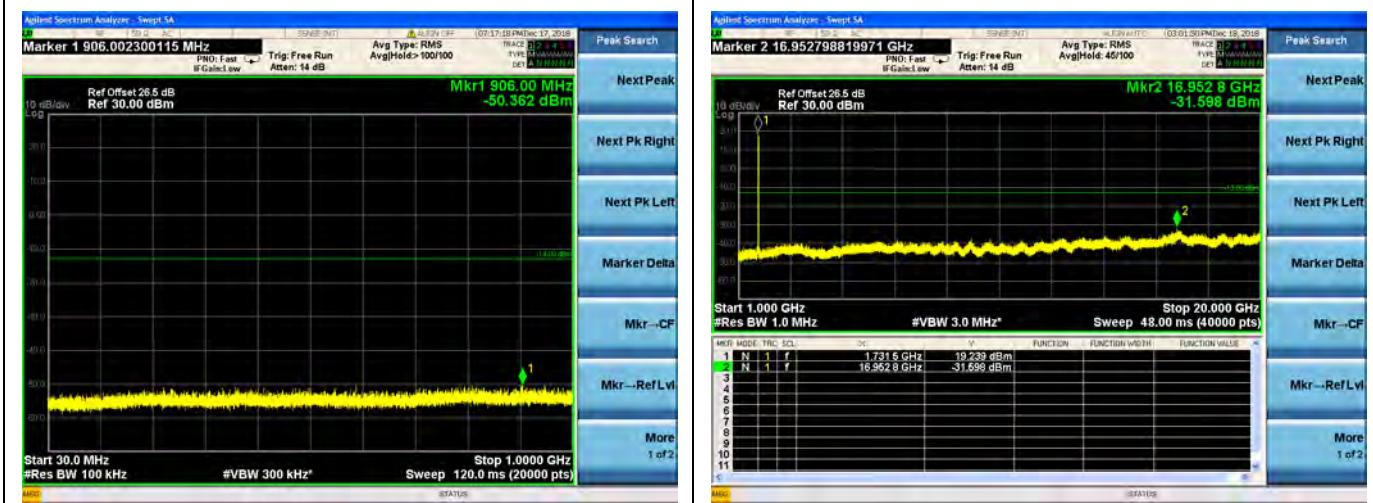
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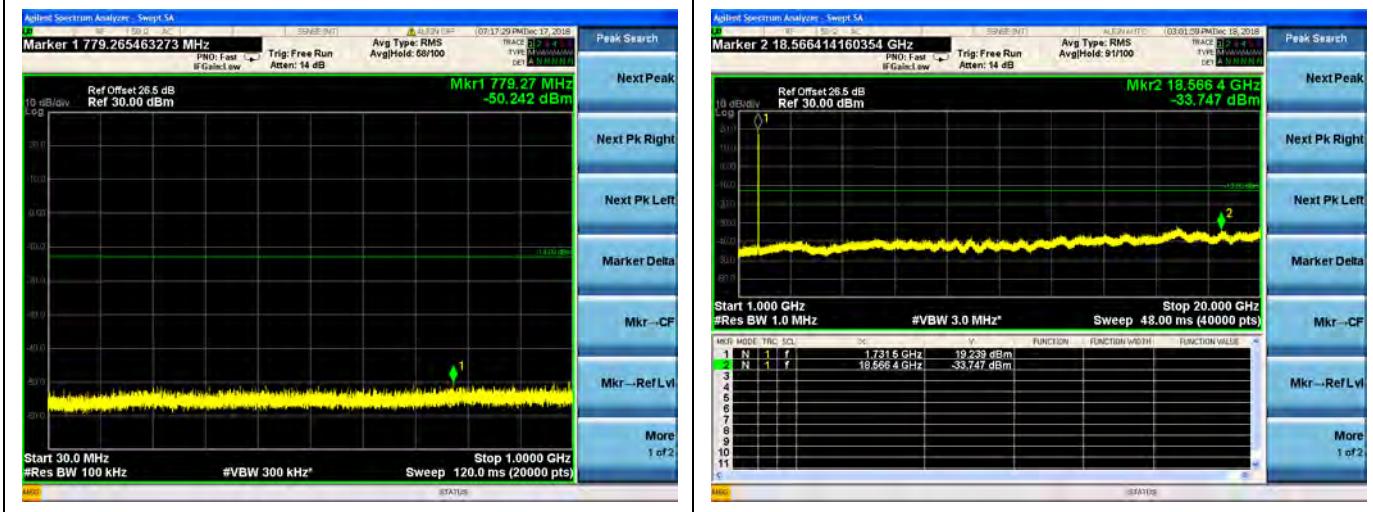


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