# **Appendix E: Test Data For E-UTRA Band 17**

# E.1: RF Output Power

			Channe	el Bandwidth 5 MHz		
Modulation	Channel		figuration	Average Power [dBm]	E.r.p [dBm]	Verdict
Modulation	Gridinio	Size	Offset	-		
		1	0	22.21		PASS
		1	12	22.43		PASS
		1	24	22.34		PASS
	LCH	12	0	21.51		PASS
		12	6	21.54		PASS
		12	13	21.49		PASS
		25	0	21.50		PASS
		1	0	22.59		PASS
		1	12	22.64		PASS
		1	24	22.35		PASS
QPSK	MCH	12	0	21.57		PASS
		12	6	21.53		PASS
		12	13	21.63		PASS
		25	0	21.48		PASS
		1	0	22.36		PASS
	НСН	1	12	22.29		PASS
		1	24	22.00		PASS
		12	0	21.48		PASS
		12	6	21.41		PASS
		12	13	21.26		PASS
		25	0	21.35		PASS
		1	0	21.78		PASS
		1	12	21.90		PASS
		1	24	21.73		PASS
	LCH	12	0	20.73		PASS
		12	6	20.69		PASS
		12	13	20.70		PASS
		25	0	20.56		PASS
		1	0	21.55		PASS
16QAM		1	12	21.65		PASS
		1	24	21.42		PASS
	MCH	12	0	20.66		PASS
		12	6	20.70		PASS
		12	13	20.66		PASS
		25	0	20.62		PASS
		1	0	21.61		PASS
	HCH	1	12	21.57		PASS

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		1	24		21.16			PASS
		12	0		20.63			PASS
		12	6		20.52			PASS
		12	13		20.42			PASS
		25	0		20.52			PASS

			Channe	l Bandwidth 10 MHz		
Modulation	Channel	RB Con	figuration	Average Power [dBm]	E.r.p [dBm]	Verdict
Modelation	Orianino	Size Offset	Avoiago i owoi [abiii]	E.i.p [dBiii]		
		1	0	22.47		PASS
		1	24	22.51		PASS
		1	49	22.19		PASS
	LCH	25	0	21.48		PASS
		25	12	21.57		PASS
		25	25	21.56		PASS
		50	0	21.45		PASS
		1	0	22.44		PASS
		1	24	22.51		PASS
		1	49	22.10		PASS
QPSK	MCH	25	0	21.48		PASS
		25	12	21.58		PASS
		25	25	21.45		PASS
		50	0	21.48		PASS
		1	0	22.62		PASS
		1	24	22.46		PASS
		1	49	22.02		PASS
	НСН	25	0	21.55		PASS
		25	12	21.54		PASS
		25	25	21.42		PASS
		50	0	21.45		PASS
		1	0	21.80		PASS
		1	24	21.88		PASS
		1	49	21.62		PASS
	LCH	25	0	20.58		PASS
		25	12	20.61		PASS
		25	25	20.66		PASS
		50	0	20.47		PASS
16QAM		1	0	21.80		PASS
		1	24	21.81		PASS
		1	49	21.45		PASS
	MCH	25	0	20.56		PASS
		25	12	20.58		PASS
		25	25	20.55		PASS
		50	0	20.55		PASS

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Г			_ 1		1		
		1	0	21.99			PASS
		1	24	21.95			PASS
		1	49	21.41			PASS
	HCH	25	0	20.63			PASS
		25	12	20.64			PASS
		25	25	20.55			PASS
		50	0	20.61			PASS

# E.2: Peak-to-Average Ratio

			Channel	Bandwidth 5 MHz		
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
Modulation	Chamilei	Size	Offset	[dB]	[dB]	verdict
		1	0	-1000	<13	PASS
		1	12	3.59	<13	PASS
		1	24	3.73	<13	PASS
	LCH	12	0	5.03	<13	PASS
		12	6	4.82	<13	PASS
		12	13	4.94	<13	PASS
		25	0	5.32	<13	PASS
		1	0	3.72	<13	PASS
		1	12	3.93	<13	PASS
		1	24	4.11	<13	PASS
QPSK	MCH	12	0	5.12	<13	PASS
		12	6	5.28	<13	PASS
		12	13	5.52	<13	PASS
		25	0	5.59	<13	PASS
		1	0	4.03	<13	PASS
		1	12	3.8	<13	PASS
		1	24	3.49	<13	PASS
	HCH	12	0	5.52	<13	PASS
		12	6	5.21	<13	PASS
		12	13	4.83	<13	PASS
		25	0	5.41	<13	PASS
		1	0	5.04	<13	PASS
		1	12	4.8	<13	PASS
		1	24	4.96	<13	PASS
	LCH	12	0	5.79	<13	PASS
		12	6	5.67	<13	PASS
		12	13	5.73	<13	PASS
		25	0	6.1	<13	PASS
		1	0	4.67	<13	PASS
16QAM		1	12	4.84	<13	PASS
		1	24	5.17	<13	PASS
	MCH	12	0	6	<13	PASS
		12	6	6.19	<13	PASS
		12	13	6.36	<13	PASS
		25	0	6.37	<13	PASS
		1	0	5.21	<13	PASS
	нсн	1	12	5.04	<13	PASS
		1	24	4.7	<13	PASS

SHENZHEN LCS	S COMPLIANCE	E TESTING LA	ID. FCC ID: 2AG5L-F1U152A	Report No.: LCS1	<u>001201992E</u>	
		12	0	6.31	<13	PASS
		12	6	6.05	<13	PASS
		12	13	5.65	<13	PASS
		25	0	6.19	<13	PASS

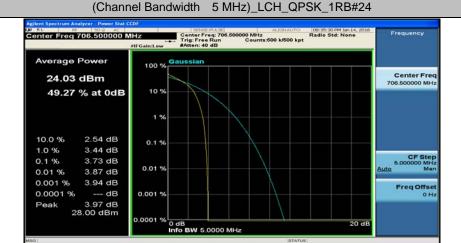
			Channel	Bandwidth 10 MHz		
Modulation	Channel	RB Conf	iguration	Peak-to-Average Ratio	Limit	Verdict
Modulation	Charmer	Size	Offset	[dB]	[dB]	verdict
		1	0	3.79	<13	PASS
		1	24	3.83	<13	PASS
		1	49	3.83	<13	PASS
	LCH	25	0	5.14	<13	PASS
		25	12	5.3	<13	PASS
		25	25	5.46	<13	PASS
		50	0	5.57	<13	PASS
		1	0	3.7	<13	PASS
		1	24	3.88	<13	PASS
		1	49	3.51	<13	PASS
QPSK	MCH	25	0	5.2	<13	PASS
		25	12	5.45	<13	PASS
		25	25	5.4	<13	PASS
		50	0	5.55	<13	PASS
	нсн	1	0	3.63	<13	PASS
		1	24	3.96	<13	PASS
		1	49	3.38	<13	PASS
		25	0	5.33	<13	PASS
		25	12	5.5	<13	PASS
		25	25	5.26	<13	PASS
		50	0	5.5	<13	PASS
		1	0	4.94	<13	PASS
		1	24	4.92	<13	PASS
		1	49	4.99	<13	PASS
	LCH	25	0	5.99	<13	PASS
		25	12	6.09	<13	PASS
		25	25	6.31	<13	PASS
160 ^ 1/4		50	0	6.26	<13	PASS
16QAM		1	0	4.81	<13	PASS
		1	24	5.04	<13	PASS
		1	49	4.8	<13	PASS
	MCH	25	0	6.01	<13	PASS
		25	12	6.18	<13	PASS
		25	25	6.25	<13	PASS
		50	0	6.27	<13	PASS

SHENZHEN L	CS COMPLIAN	CE TESTING L	ABORATORY L	TD. FCC ID: 2AG5L-FTU152A	Report No.: LCS1	601261992 <u>E</u>
		1	0	4.73	<13	PASS
		1	24	5.22	<13	PASS
		1	49	4.52	<13	PASS
	HCH	25	0	6.08	<13	PASS
		25	12	6.28	<13	PASS
		25	25	6.1	<13	PASS
		50	0	6.26	<13	PASS

# **Test Graphs**

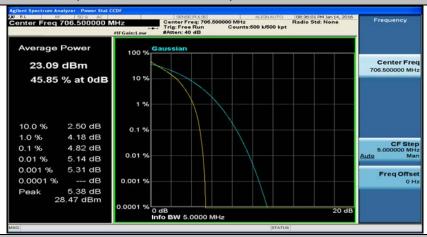




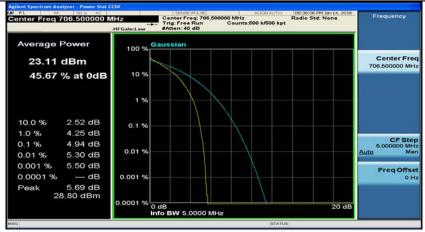


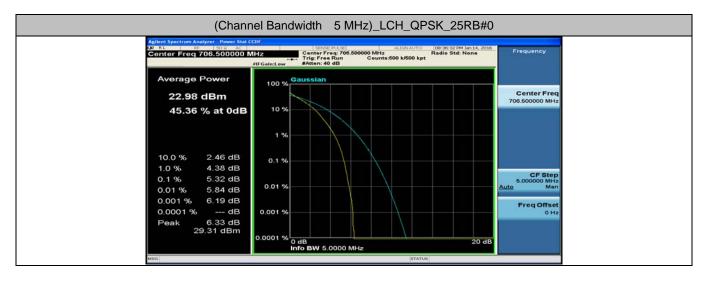
### (Channel Bandwidth 5 MHz)\_LCH\_QPSK\_12RB#0 enter Freq 706.500000 MHz Average Power 100 % 23.07 dBm 10 % 45.31 % at 0dB 10.0 % 2.53 dB 4.32 dB CF Step 5.000000 MHz 0.1 % 5.03 dB 0.01 % 0.01 % 5.38 dB 0.001 % 5.57 dB Freq Offset % --- dB 5.63 dB 28.70 dBm 0.0001 % 0.001 % Peak 0.0001 9 0 dB Info BW 5,0000 MHz

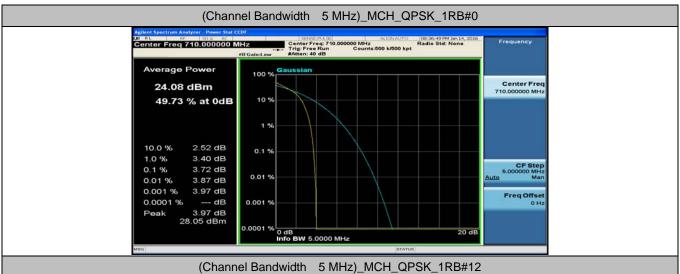
# (Channel Bandwidth 5 MHz)\_LCH\_QPSK\_12RB#6

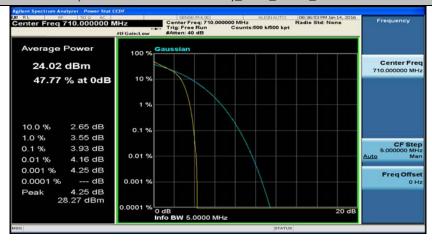


# (Channel Bandwidth 5 MHz)\_LCH\_QPSK\_12RB#13



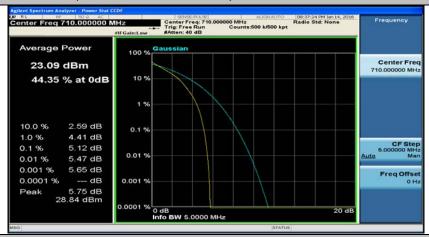






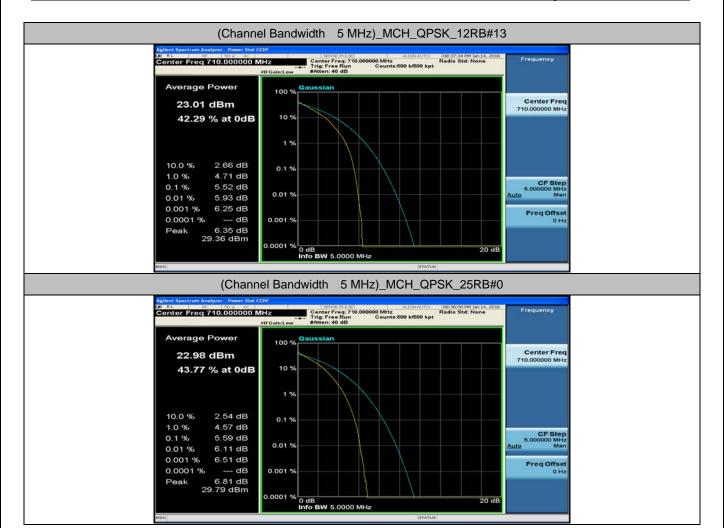
### (Channel Bandwidth 5 MHz)\_MCH\_QPSK\_1RB#24 enter Freq 710.000000 MHz Average Power 100 % 23.76 dBm 46.17 % at 0dB 10 % 10.0 % 2.75 dB 0.1 % 3.69 dB CF Step 5.000000 MHz 0.1 % 4.11 dB 0.01 % 0.01 % 4.31 dB 0.001 % 4.45 dB Freq Offset 0.0001 % --- dB 0.001 % 4.48 dB 28.24 dBm Peak 0.0001 9 0 dB Info BW 5.0000 MHz

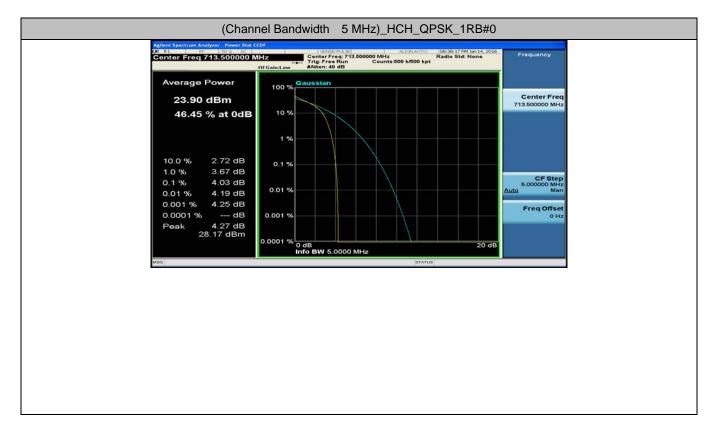
### (Channel Bandwidth 5 MHz)\_MCH\_QPSK\_12RB#0



# (Channel Bandwidth 5 MHz)\_MCH\_QPSK\_12RB#6

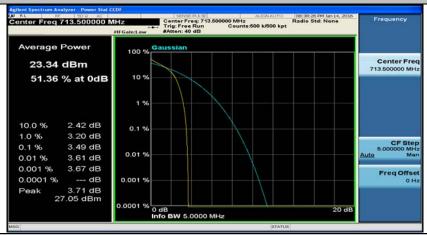






### (Channel Bandwidth 5 MHz)\_HCH\_QPSK\_1RB#12 Center Freq: 713.500000 MHz Trig: Free Run Counts:500 k/500 kpt #Atten: 40 dB nter Freq 713.500000 MHz Average Power 100 % Center Freq 713.500000 MHz 23.72 dBm 48.44 % at 0dB 10 % 10.0 % 2.61 dB 0.1 % 3.47 dB CF Step 5.000000 MHz 0.1 % 3.80 dB 0.01 % 0.01 % 3.93 dB 0.001 % 3.96 dB Freq Offset 0.0001 % --- dB 0.001 % 3.97 dB 27.69 dBm Peak 0.0001 9 0 dB Info BW 5.0000 MHz

# (Channel Bandwidth 5 MHz)\_HCH\_QPSK\_1RB#24

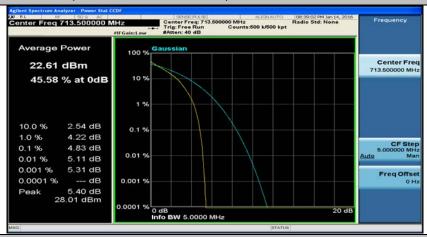


# (Channel Bandwidth 5 MHz)\_HCH\_QPSK\_12RB#0

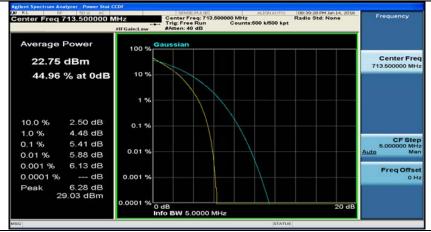


### (Channel Bandwidth 5 MHz)\_HCH\_QPSK\_12RB#6 Center Freq: 713.500000 MHz Trig: Free Run Counts:500 k/500 kpt #Atten: 40 dB enter Freq 713.500000 MHz Average Power 100 % Center Freq 713.500000 MHz 22.80 dBm 43.62 % at 0dB 10 % 10.0 % 2.61 dB 0.1 % 4.51 dB CF Step 5.000000 MHz 0.1 % 5.21 dB 0.01 % 0.01 % 5.57 dB 0.001 % 5.69 dB Freq Offset 0.0001 % --- dB 0.001 % 5.80 dB 28.60 dBm Peak 0.0001 9 0 dB Info BW 5,0000 MHz

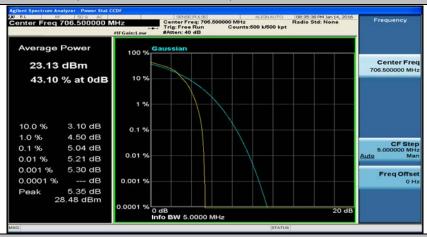
### (Channel Bandwidth 5 MHz)\_HCH\_QPSK\_12RB#13



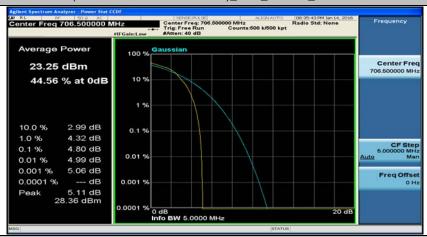
# (Channel Bandwidth 5 MHz)\_HCH\_QPSK\_25RB#0



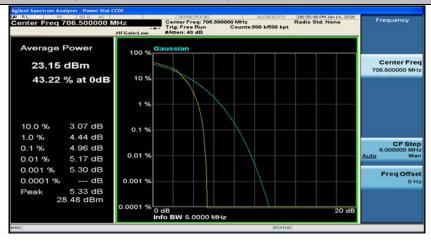
# (Channel Bandwidth 5 MHz)\_LCH\_16QAM\_1RB#0



# (Channel Bandwidth 5 MHz)\_LCH\_16QAM\_1RB#12



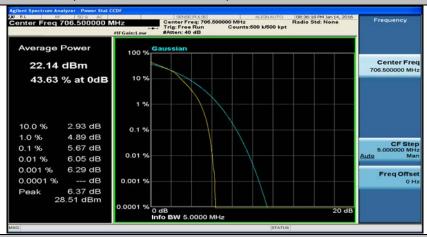
# (Channel Bandwidth 5 MHz)\_LCH\_16QAM\_1RB#24



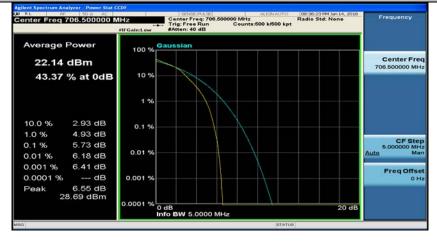
# (Channel Bandwidth 5 MHz)\_LCH\_16QAM\_12RB#0



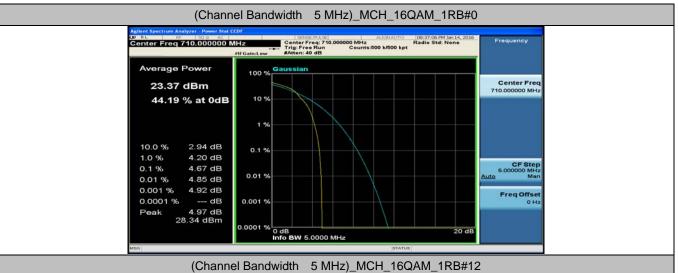
### (Channel Bandwidth 5 MHz)\_LCH\_16QAM\_12RB#6

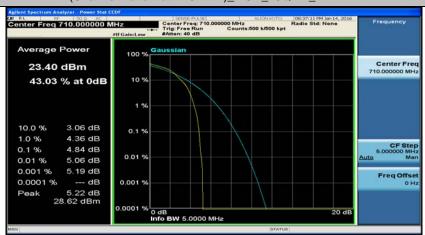


# (Channel Bandwidth 5 MHz)\_LCH\_16QAM\_12RB#13

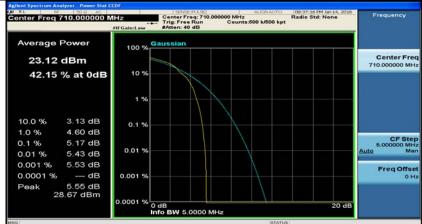




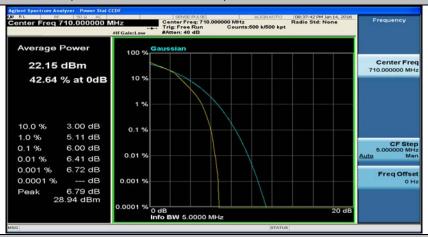




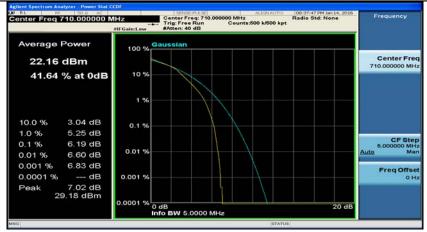
# (Channel Bandwidth 5 MHz)\_MCH\_16QAM\_1RB#24

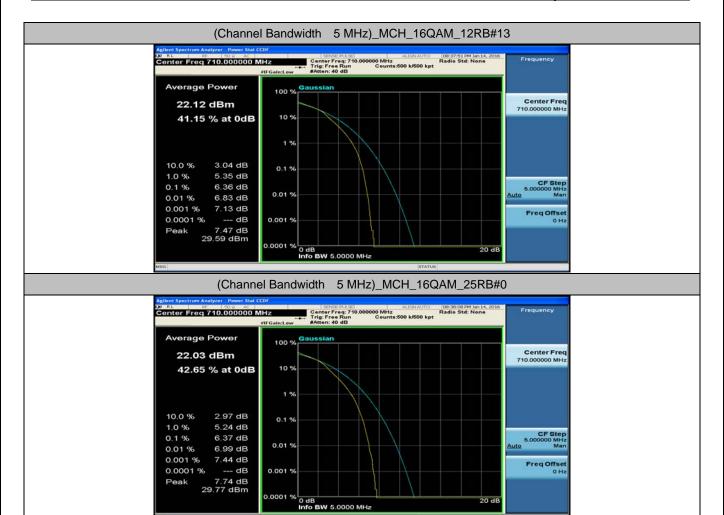


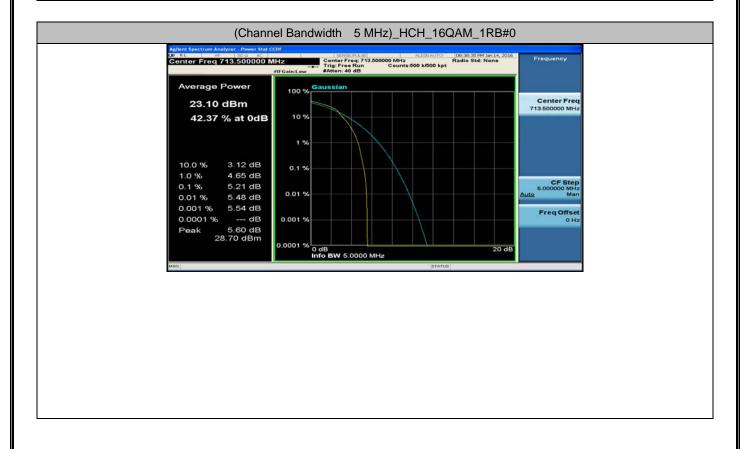
### (Channel Bandwidth 5 MHz)\_MCH\_16QAM\_12RB#0



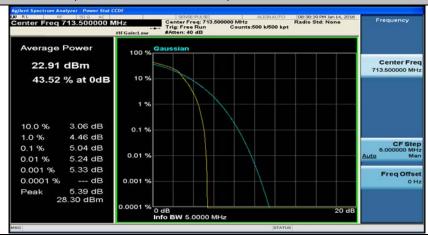
# (Channel Bandwidth 5 MHz)\_MCH\_16QAM\_12RB#6



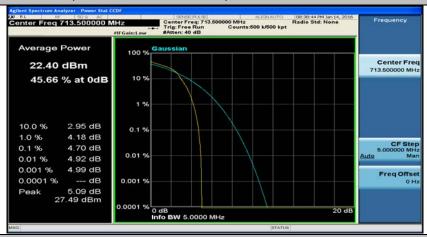




### (Channel Bandwidth 5 MHz)\_HCH\_16QAM\_1RB#12



### (Channel Bandwidth 5 MHz)\_HCH\_16QAM\_1RB#24

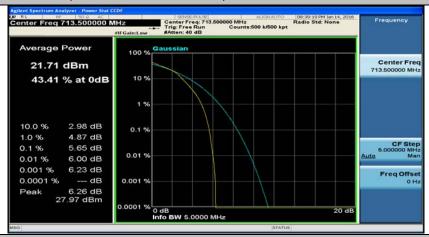


# (Channel Bandwidth 5 MHz)\_HCH\_16QAM\_12RB#0



### (Channel Bandwidth 5 MHz)\_HCH\_16QAM\_12RB#6 enter Freq 713.500000 MHz Average Power 100 % Center Freq 713.500000 MHz 21.90 dBm 41.92 % at 0dB 10 % 10.0 % 3.04 dB 0.1 % 5.20 dB CF Step 5.000000 MHz 0.1 % 6.05 dB 0.01 % 0.01 % 6.45 dB 0.001 % 6.66 dB Freq Offset % --- dB 6.77 dB 28.67 dBm 0.0001 % 0.001 % Peak 0.0001 9 0 dB Info BW 5,0000 MHz

# (Channel Bandwidth 5 MHz)\_HCH\_16QAM\_12RB#13

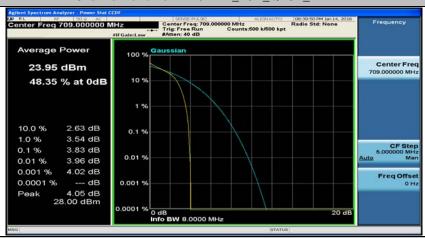


# (Channel Bandwidth 5 MHz)\_HCH\_16QAM\_25RB#0

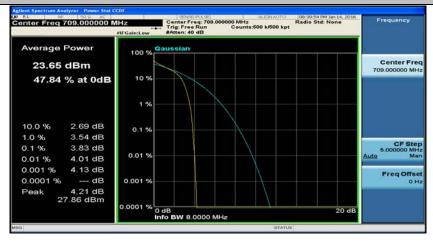


### Channel Bandwidth 10 MHz\_LCH\_QPSK\_1RB#0 Center Freq: 709.000000 MHz Radio Std: None Trig: Free Run Counts:500 k/500 kpt #Atten: 40 dB Center Freq 709.000000 MHz Average Power Center Freq 709.000000 MHz 23.95 dBm 49.05 % at 0dB 10 % 1 % 10.0 % 2.61 dB 0.1 % 3.47 dB 1.0 % CF Step 5.000000 MHz Mar 3.79 dB 0.1 % 0.01 % 0.01 % 3.97 dB 0.001 % 4.04 dB Freq Offse 0.0001 % --- dB 0.001 % 4.09 dB 28.04 dBm 0.0001 % 0 dB Info BW 8.0000 MHz

### Channel Bandwidth 10 MHz\_LCH\_QPSK\_1RB#24



# Channel Bandwidth 10 MHz\_LCH\_QPSK\_1RB#49



# Channel Bandwidth 10 MHz\_LCH\_QPSK\_25RB#0 enter Freq 709.000000 MHz Average Power 100 % 22.98 dBm 10 % 45.51 % at 0dB 2.46 dB 4.29 dB CF Step 5.000000 MHz

Freq Offset

# Channel Bandwidth 10 MHz\_LCH\_QPSK\_25RB#12

0 dB Info BW 8.0000 MHz

10.0 %

0.1 %

Peak

0.01 %

0.001 %

0.0001 %

5.14 dB

5.56 dB

5.76 dB

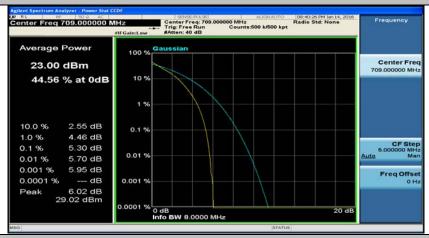
--- dB

5.92 dB 28.90 dBm

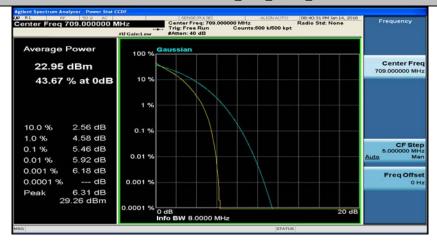
0.01 %

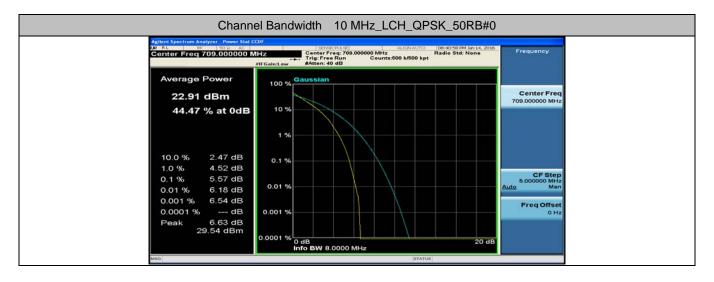
0.001 %

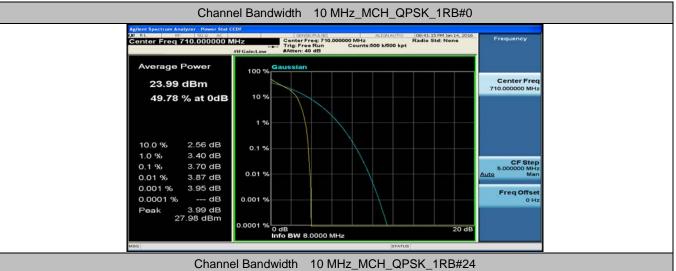
0.0001 9



### Channel Bandwidth 10 MHz\_LCH\_QPSK\_25RB#25









# Channel Bandwidth 10 MHz\_MCH\_QPSK\_1RB#49 enter Freq 710.000000 MHz Average Power 100 % 23.55 dBm 50.74 % at 0dB 10 % 2.50 dB

CF Step 5.000000 MHz

Freq Offset

Channel Bandwidth 10 MHz\_MCH\_QPSK\_25RB#0

0 dB Info BW 8.0000 MHz

10.0 %

0.1 %

Peak

0.01 %

0.001 %

0.0001 %

3.26 dB

3.51 dB

3.62 dB

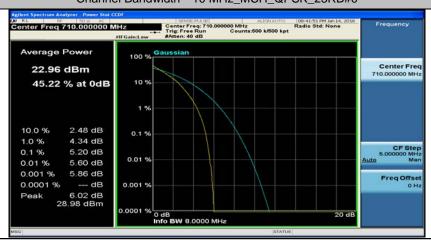
3.69 dB

% --- dB 3.70 dB 27.25 dBm

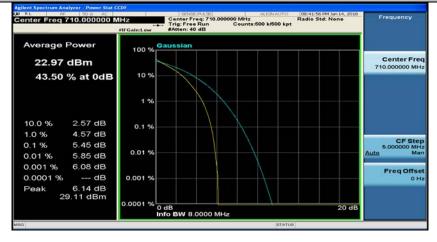
0.01 %

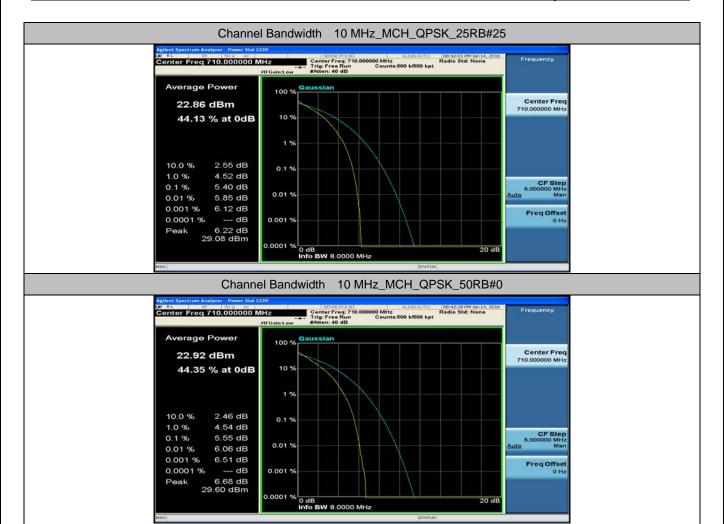
0.001 %

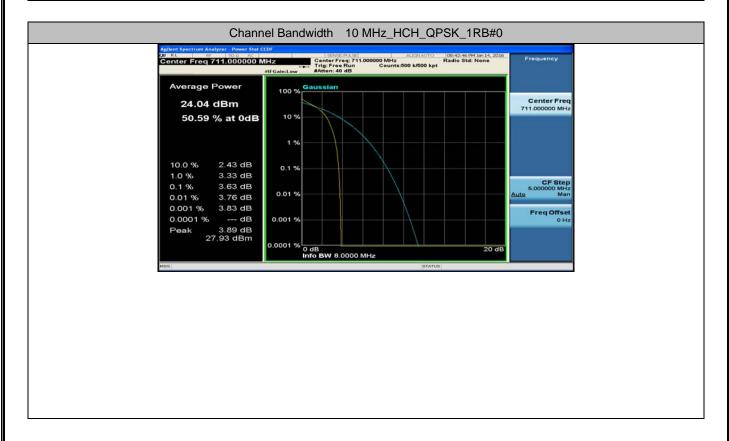
0.0001 9



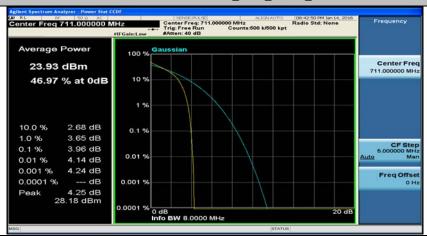
# Channel Bandwidth 10 MHz\_MCH\_QPSK\_25RB#12



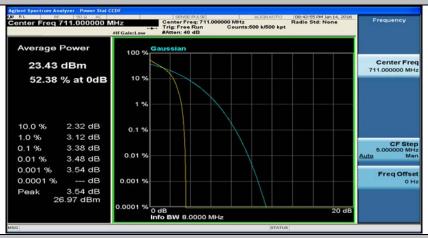




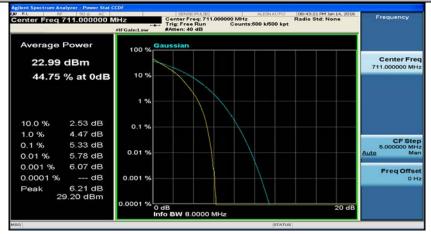
### Channel Bandwidth 10 MHz\_HCH\_QPSK\_1RB#24



### Channel Bandwidth 10 MHz\_HCH\_QPSK\_1RB#49

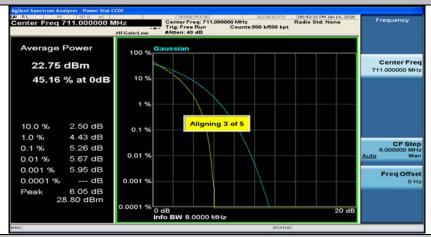


# Channel Bandwidth 10 MHz\_HCH\_QPSK\_25RB#0

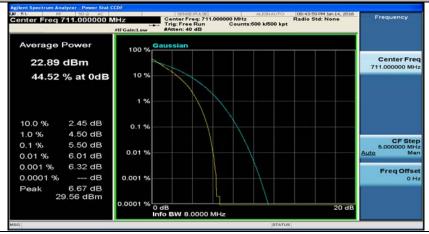


### Channel Bandwidth 10 MHz\_HCH\_QPSK\_25RB#12 Center Freq: 711.000000 MHz Trig: Free Run Counts:500 k/500 kpt #Atten: 40 dB enter Freq 711.000000 MHz Average Power 100 % Center Freq 711.000000 MHz 22.97 dBm 10 % 43.11 % at 0dB 10.0 % 2.58 dB 0.1 % 4.63 dB CF Step 5.000000 MHz 0.1 % 5.50 dB 0.01 % 0.01 % 5.94 dB 0.001 % 6.13 dB Freq Offset % --- dB 6.43 dB 29.40 dBm 0.0001 % 0.001 % Peak 0.0001 9 0 dB Info BW 8.0000 MHz

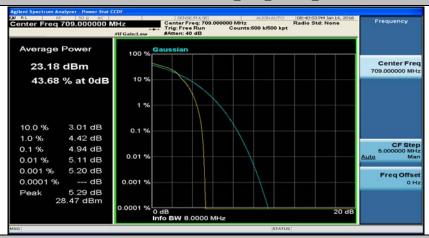
### Channel Bandwidth 10 MHz\_HCH\_QPSK\_25RB#25



# Channel Bandwidth 10 MHz\_HCH\_QPSK\_50RB#0



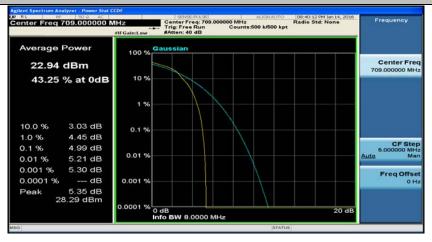
### Channel Bandwidth 10 MHz\_LCH\_16QAM\_1RB#0



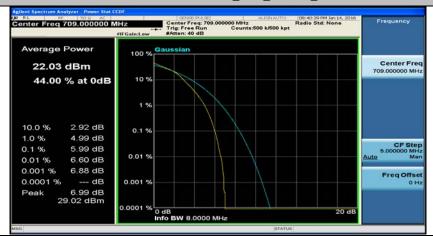
### Channel Bandwidth 10 MHz\_LCH\_16QAM\_1RB#24



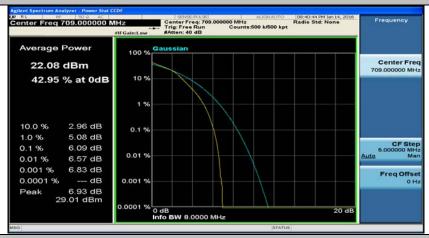
# Channel Bandwidth 10 MHz\_LCH\_16QAM\_1RB#49



### Channel Bandwidth 10 MHz\_LCH\_16QAM\_25RB#0



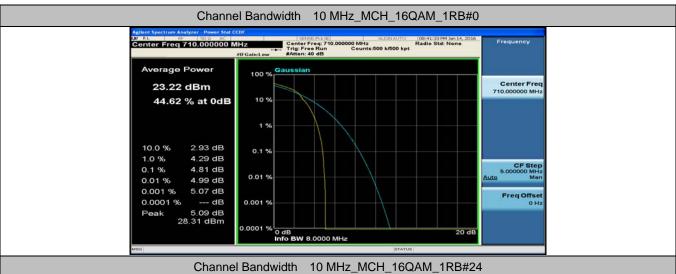
### Channel Bandwidth 10 MHz\_LCH\_16QAM\_25RB#12

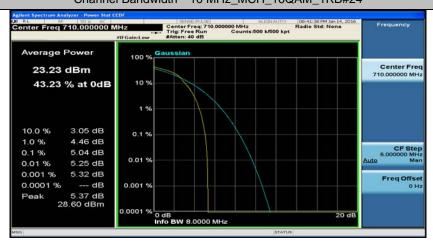


# Channel Bandwidth 10 MHz\_LCH\_16QAM\_25RB#25









### Channel Bandwidth 10 MHz\_MCH\_16QAM\_1RB#49 enter Freq 710.000000 MHz Average Power 100 % 22.68 dBm 44.99 % at 0dB 10 % 10.0 % 2.99 dB 4.29 dB CF Step 5.000000 MHz 0.1 % 4.80 dB 0.01 % 0.01 % 4.95 dB 0.001 % 5.01 dB Freq Offset

### Channel Bandwidth 10 MHz\_MCH\_16QAM\_25RB#0

0 dB Info BW 8.0000 MHz

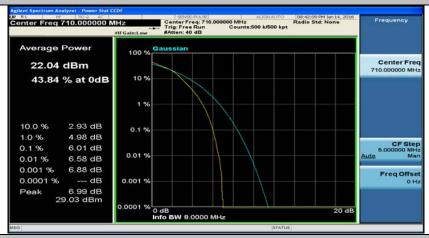
% --- dB 5.11 dB 27.79 dBm

0.001 %

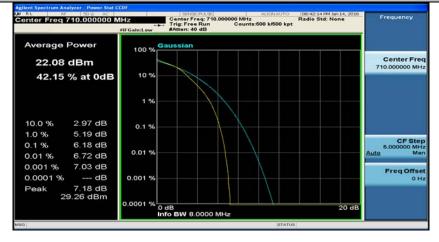
0.0001 9

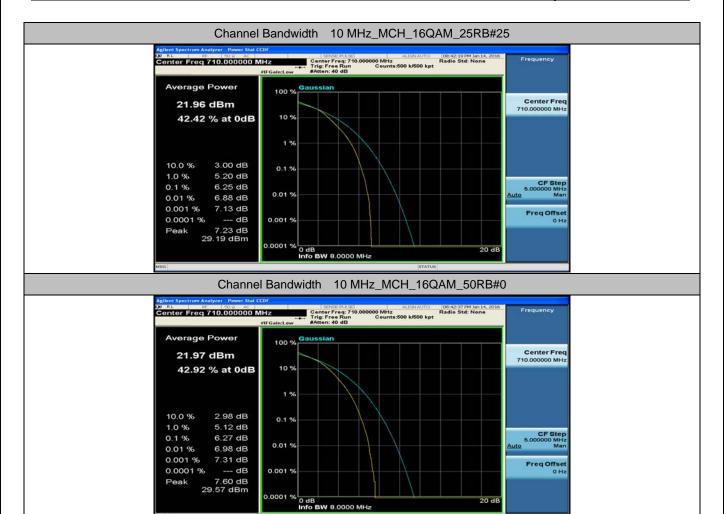
0.0001 %

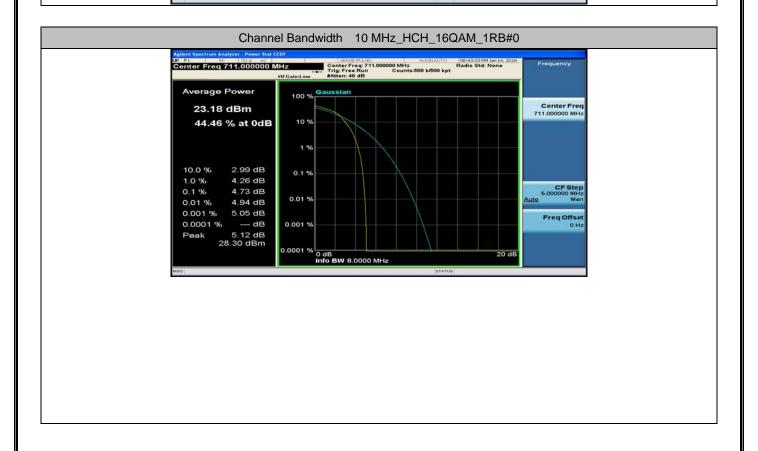
Peak



# Channel Bandwidth 10 MHz\_MCH\_16QAM\_25RB#12



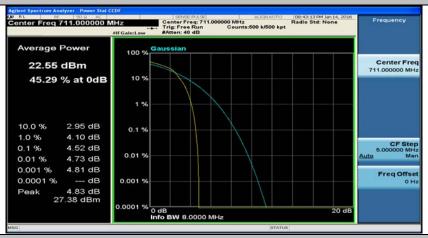




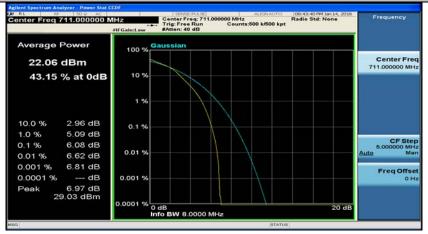
# Channel Bandwidth 10 MHz\_HCH\_16QAM\_1RB#24



### Channel Bandwidth 10 MHz\_HCH\_16QAM\_1RB#49

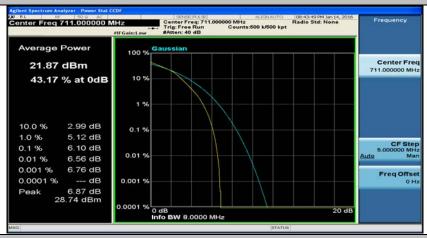


# Channel Bandwidth 10 MHz\_HCH\_16QAM\_25RB#0

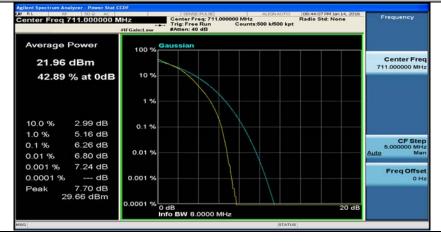


### Channel Bandwidth 10 MHz\_HCH\_16QAM\_25RB#12 enter Freq 711.000000 MHz Average Power 100 % Center Freq 711.000000 MHz 22.07 dBm 41.60 % at 0dB 10 % 10.0 % 3.00 dB 0.1 % 5.27 dB CF Step 5.000000 MHz 0.1 % 6.28 dB 0.01 % 0.01 % 6.73 dB 0.001 % 6.99 dB Freq Offset % --- dB 7.08 dB 29.15 dBm 0.0001 % 0.001 % Peak 0.0001 9 0 dB Info BW 8.0000 MHz

### Channel Bandwidth 10 MHz\_HCH\_16QAM\_25RB#25



# Channel Bandwidth 10 MHz\_HCH\_16QAM\_50RB#0

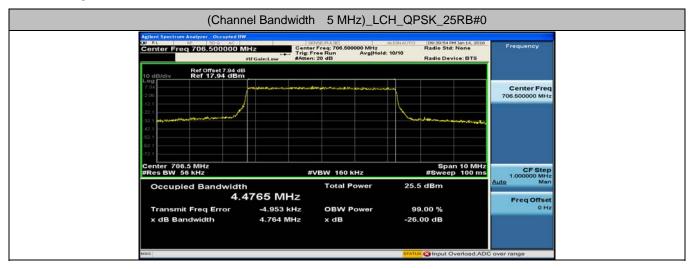


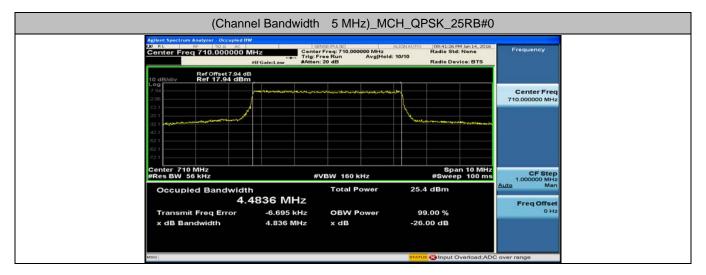
# E.3: 26dB Bandwidth and Occupied Bandwidth

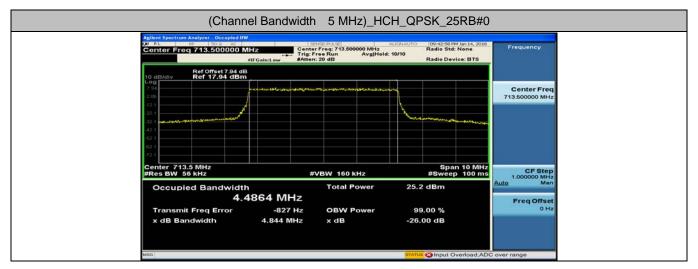
	Channel Bandwidth 5 MHz											
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict						
Modulation	Charlie	Size	Offset	(MHz)	(MHz)	verdict						
QPSK	LCH	25	0	4.4765	4.764	PASS						
QPSK	MCH	25	0	4.4836	4.836	PASS						
	HCH	25	0	4.4864	4.844	PASS						
	LCH	25	0	4.4779	4.812	PASS						
16QAM	MCH	25	0	4.4898	4.797	PASS						
	HCH	25	0	4.4762	4.798	PASS						

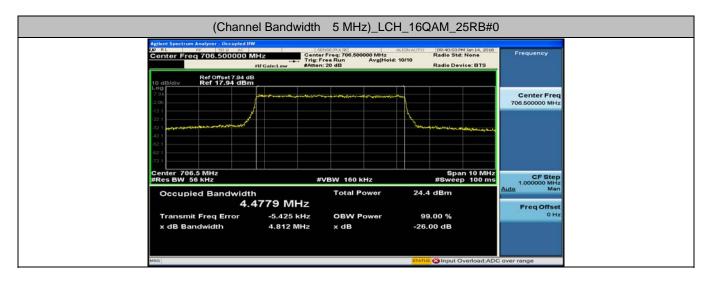
	Channel Bandwidth 10 MHz											
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict						
Modulation	Charmer	Size	Offset	(MHz)	(MHz)	verdict						
QPSK	LCH	50	0	8.9544	9.478	PASS						
QPSK	MCH	50	0	8.9500	9.482	PASS						
	HCH	50	0	8.9449	9.430	PASS						
	LCH	50	0	8.9473	9.373	PASS						
16QAM	MCH	50	0	8.9515	9.448	PASS						
	HCH	50	0	8.9498	9.449	PASS						

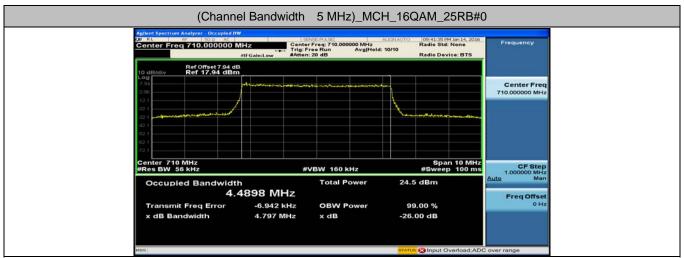
# **Test Graphs**

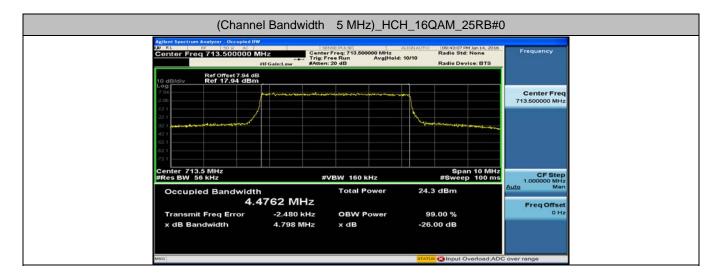


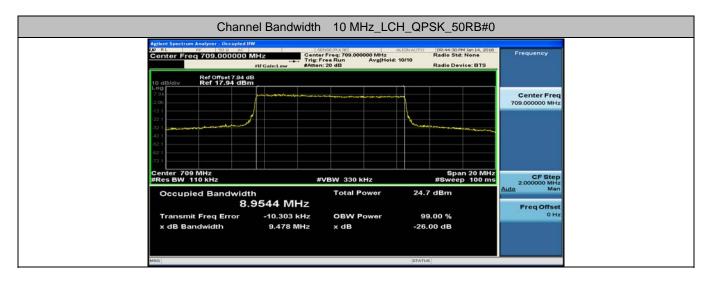


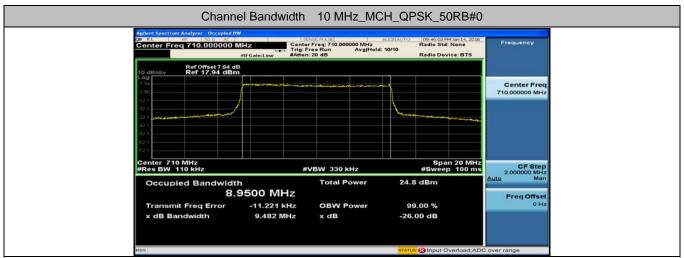


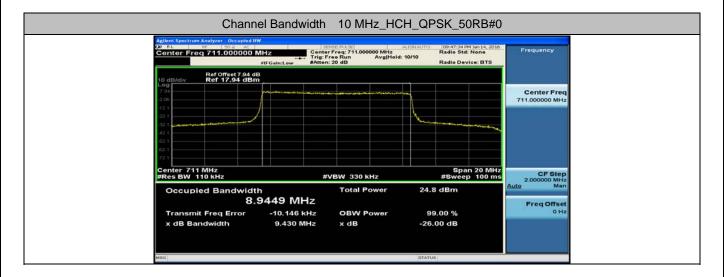


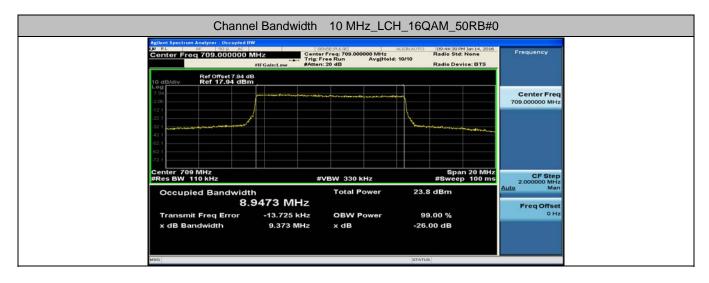


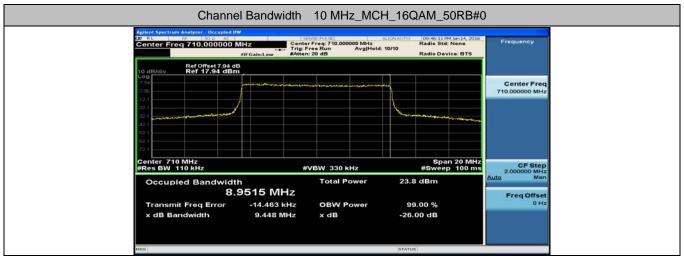


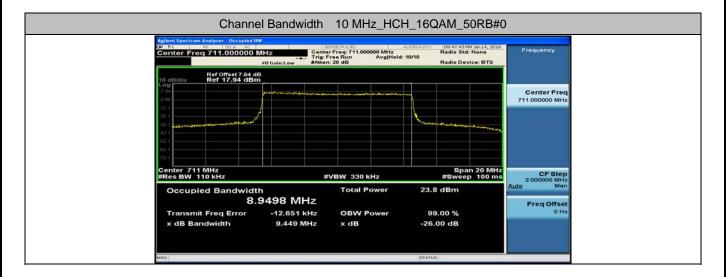




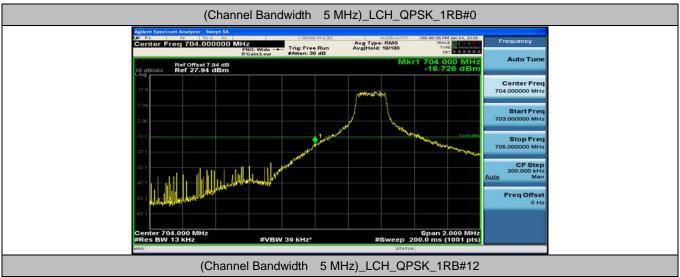


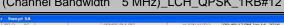






# E.4: Band Edge







# (Channel Bandwidth 5 MHz)\_LCH\_QPSK\_1RB#24



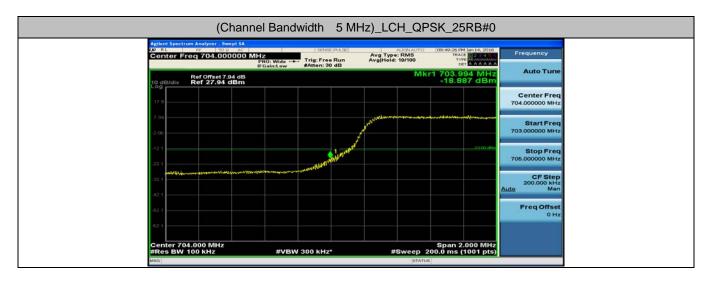
# 

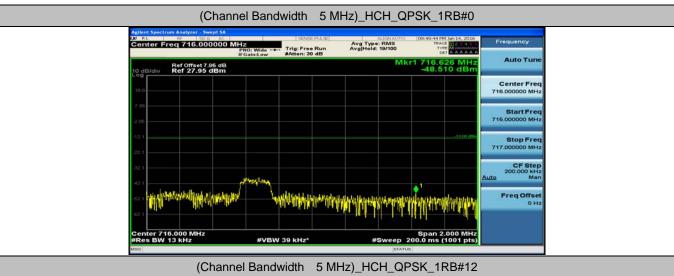
### (Channel Bandwidth 5 MHz)\_LCH\_QPSK\_12RB#6



# (Channel Bandwidth 5 MHz)\_LCH\_QPSK\_12RB#13









# (Channel Bandwidth 5 MHz)\_HCH\_QPSK\_1RB#24 Author Spectrum Analyzes Swept SA Contor Freq 716,000000 MHz FRIC Wildo - Trigi Free Run Freq 716,000000 MHz FRIC Wildo - Trigi Free Run Freq 716,000000 MHz FRIC Wildo - Trigi Free Run Freq 716,000000 MHz FRIC Wildo - Trigi Free Run Freq 716,00000 MHz FRIC Wildo - Trigi Free Run Freq 716,00000 MHz Start Freq 716,000000 MHz Start Freq 716,000000 MHz Start Freq 716,000000 MHz Freq Offset O Hz Center 716,000 MHz #Wees BW 13 kHz #VBW 39 kHz #Sweep 200,0 ms (1001 pts)

# (Channel Bandwidth 5 MHz)\_HCH\_QPSK\_12RB#0



# (Channel Bandwidth 5 MHz)\_HCH\_QPSK\_12RB#6





CF Step 200,000 kH

Freq Offse



#VBW 300 kHz\*

# (Channel Bandwidth 5 MHz)\_LCH\_16QAM\_1RB#12 Aplent Spectrum Analyzer, Swept SA 30 RL BY 30 SA Center Freq 704.000000 MHz PHO: Wide - Freq Run Avg Type: RMS Ref 27.94 dBm Center Freq 704.000000 MHz Start Freq 705.000000 MHz Stop Freq 705.000000 MHz Center 704.000000 MHz Center 704.000000 MHz Stop Freq 705.000000 MHz Center 704.000000 MHz Stop Freq 705.000000 MHz Stop Freq 706.000000 MHz Stop Freq 706.00000 MHz Stop Freq 706.0

### (Channel Bandwidth 5 MHz)\_LCH\_16QAM\_1RB#24



# (Channel Bandwidth 5 MHz)\_LCH\_16QAM\_12RB#0

