



## Appendix A: Average Output Power Data

### Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.20	PASS
		1	2	23.24	PASS
		1	5	23.16	PASS
		3	0	23.15	PASS
		3	1	23.25	PASS
		3	3	23.17	PASS
		6	0	22.26	PASS
	MCH	1	0	23.20	PASS
		1	2	23.37	PASS
		1	5	23.20	PASS
		3	0	23.32	PASS
		3	1	23.28	PASS
		3	3	23.32	PASS
		6	0	22.33	PASS
	HCH	1	0	23.14	PASS
		1	2	23.23	PASS
		1	5	23.15	PASS
		3	0	23.19	PASS
		3	1	23.20	PASS
		3	3	23.17	PASS
		6	0	22.27	PASS
16QAM	LCH	1	0	22.43	PASS
		1	2	22.50	PASS
		1	5	22.42	PASS
		3	0	22.38	PASS
		3	1	22.41	PASS
		3	3	22.34	PASS
		6	0	21.47	PASS
	MCH	1	0	22.47	PASS
		1	2	22.54	PASS
		1	5	22.47	PASS
		3	0	22.44	PASS



		3	1	22.53	PASS
		3	3	22.40	PASS
		6	0	21.43	PASS
	HCH	1	0	22.48	PASS
		1	2	22.44	PASS
		1	5	22.41	PASS
		3	0	22.32	PASS
		3	1	22.46	PASS
		3	3	22.32	PASS
		6	0	21.44	PASS

### Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.24	PASS
		1	7	23.33	PASS
		1	14	23.14	PASS
		8	0	22.34	PASS
		8	3	22.36	PASS
		8	7	22.26	PASS
		15	0	22.33	PASS
	MCH	1	0	23.27	PASS
		1	7	23.39	PASS
		1	14	23.28	PASS
		8	0	22.40	PASS
		8	3	22.40	PASS
		8	7	22.34	PASS
		15	0	22.37	PASS
	HCH	1	0	23.17	PASS
		1	7	23.34	PASS
		1	14	23.08	PASS
		8	0	22.36	PASS
		8	3	22.42	PASS
		8	7	22.29	PASS
		15	0	22.35	PASS
16QAM	LCH	1	0	22.54	PASS
		1	7	22.58	PASS
		1	14	22.48	PASS



		8	0	21.39	PASS
		8	3	21.40	PASS
		8	7	21.35	PASS
		15	0	21.30	PASS
	MCH	1	0	22.56	PASS
		1	7	22.65	PASS
		1	14	22.56	PASS
		8	0	21.45	PASS
		8	3	21.45	PASS
		8	7	21.38	PASS
		15	0	21.38	PASS
	HCH	1	0	22.45	PASS
		1	7	22.63	PASS
		1	14	22.46	PASS
		8	0	21.40	PASS
		8	3	21.45	PASS
		8	7	21.45	PASS
		15	0	21.31	PASS

### Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.41	PASS
		1	12	23.17	PASS
		1	24	23.22	PASS
		12	0	22.37	PASS
		12	6	22.38	PASS
		12	13	22.30	PASS
		25	0	22.32	PASS
		25	0	22.32	PASS
	MCH	1	0	23.38	PASS
		1	12	23.31	PASS
		1	24	23.29	PASS
		12	0	22.43	PASS
		12	6	22.40	PASS
		12	13	22.33	PASS
		25	0	22.36	PASS
		25	0	22.36	PASS
	HCH	1	0	23.25	PASS
		1	12	23.16	PASS
		1	24	23.17	PASS



16QAM		12	0	22.43	PASS
		12	6	22.39	PASS
		12	13	22.33	PASS
		25	0	22.35	PASS
	LCH	1	0	22.66	PASS
		1	12	22.55	PASS
		1	24	22.45	PASS
		12	0	21.43	PASS
		12	6	21.40	PASS
		12	13	21.32	PASS
		25	0	21.32	PASS
	MCH	1	0	22.66	PASS
		1	12	22.62	PASS
		1	24	22.57	PASS
		12	0	21.47	PASS
		12	6	21.45	PASS
		12	13	21.35	PASS
		25	0	21.38	PASS
	HCH	1	0	22.60	PASS
		1	12	22.52	PASS
		1	24	22.56	PASS
		12	0	21.47	PASS
		12	6	21.44	PASS
		12	13	21.36	PASS
		25	0	21.38	PASS

### Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.61	PASS
		1	24	23.19	PASS
		1	49	23.22	PASS
		25	0	22.50	PASS
		25	12	22.39	PASS
		25	25	22.31	PASS
		50	0	22.42	PASS
	MCH	1	0	23.62	PASS
		1	24	23.33	PASS
		1	49	23.35	PASS



		25	0	22.57	PASS
		25	12	22.44	PASS
		25	25	22.46	PASS
		50	0	22.47	PASS
	HCH	1	0	23.60	PASS
		1	24	23.15	PASS
		1	49	23.32	PASS
		25	0	22.53	PASS
		25	12	22.46	PASS
		25	25	22.38	PASS
		50	0	22.48	PASS
16QAM	LCH	1	0	22.89	PASS
		1	24	22.45	PASS
		1	49	22.49	PASS
		25	0	21.49	PASS
		25	12	21.39	PASS
		25	25	21.27	PASS
		50	0	21.34	PASS
	MCH	1	0	22.90	PASS
		1	24	22.55	PASS
		1	49	22.63	PASS
		25	0	21.53	PASS
		25	12	21.42	PASS
		25	25	21.46	PASS
		50	0	21.42	PASS
	HCH	1	0	22.93	PASS
		1	24	22.42	PASS
		1	49	22.57	PASS
		25	0	21.43	PASS
		25	12	21.43	PASS
		25	25	21.36	PASS
		50	0	21.45	PASS

### Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.30	PASS
		1	37	23.36	PASS
		1	74	23.32	PASS

		36	0	22.45	PASS
		36	19	22.33	PASS
		36	39	22.33	PASS
		75	0	22.38	PASS
	MCH	1	0	23.45	PASS
		1	37	23.44	PASS
		1	74	23.49	PASS
		36	0	22.46	PASS
		36	19	22.39	PASS
		36	39	22.47	PASS
		75	0	22.49	PASS
		75	0	22.49	PASS
	HCH	1	0	23.41	PASS
		1	37	23.53	PASS
		1	74	23.51	PASS
		36	0	22.52	PASS
		36	19	22.48	PASS
		36	39	22.49	PASS
		75	0	22.54	PASS
		75	0	22.54	PASS
16QAM	LCH	1	0	22.73	PASS
		1	37	22.54	PASS
		1	74	22.56	PASS
		36	0	21.42	PASS
		36	19	21.33	PASS
		36	39	21.26	PASS
		75	0	21.34	PASS
		75	0	21.34	PASS
	MCH	1	0	22.60	PASS
		1	37	22.50	PASS
		1	74	22.76	PASS
		36	0	21.42	PASS
		36	19	21.38	PASS
		36	39	21.44	PASS
		75	0	21.43	PASS
		75	0	21.43	PASS
	HCH	1	0	22.72	PASS
		1	37	22.51	PASS
		1	74	22.86	PASS
		36	0	21.48	PASS
		36	19	21.51	PASS
		36	39	21.46	PASS
		75	0	21.54	PASS
		75	0	21.54	PASS



## Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.40	PASS
		1	49	23.21	PASS
		1	99	23.42	PASS
		50	0	22.46	PASS
		50	25	22.33	PASS
		50	50	22.40	PASS
		100	0	22.42	PASS
	MCH	1	0	23.52	PASS
		1	49	23.21	PASS
		1	99	23.68	PASS
		50	0	22.46	PASS
		50	25	22.39	PASS
		50	50	22.47	PASS
		100	0	22.46	PASS
	HCH	1	0	23.50	PASS
		1	49	23.20	PASS
		1	99	23.64	PASS
		50	0	22.51	PASS
		50	25	22.37	PASS
		50	50	22.49	PASS
		100	0	22.55	PASS
16QAM	LCH	1	0	22.67	PASS
		1	49	22.45	PASS
		1	99	22.85	PASS
		50	0	21.45	PASS
		50	25	21.31	PASS
		50	50	21.34	PASS
		100	0	21.39	PASS
	MCH	1	0	22.69	PASS
		1	49	22.53	PASS
		1	99	23.02	PASS
		50	0	21.44	PASS
		50	25	21.37	PASS
		50	50	21.41	PASS
		100	0	21.44	PASS
	HCH	1	0	22.82	PASS



		1	49	22.46	PASS
		1	99	23.03	PASS
		50	0	21.37	PASS
		50	25	21.49	PASS
		50	50	21.46	PASS
		100	0	21.49	PASS





## Appendix B: Peak-to-Average Ratio

### Test Result

#### Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	MCH	1	0	3.63	<13	PASS
16QAM	MCH	1	0	4.2	<13	PASS

#### Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	3.43	<13	PASS
16QAM	MCH	1	0	4.28	<13	PASS

#### Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	3.52	<13	PASS
16QAM	MCH	1	0	4.04	<13	PASS

#### Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	3.26	<13	PASS
16QAM	MCH	1	0	3.97	<13	PASS



### Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	3.28	<13	PASS
16QAM	MCH	1	0	4.32	<13	PASS

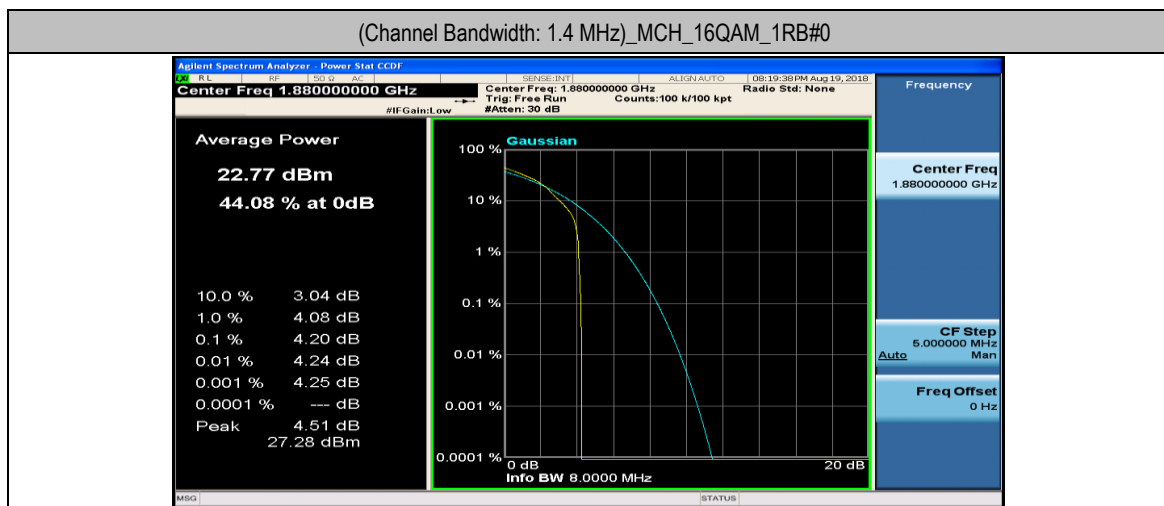
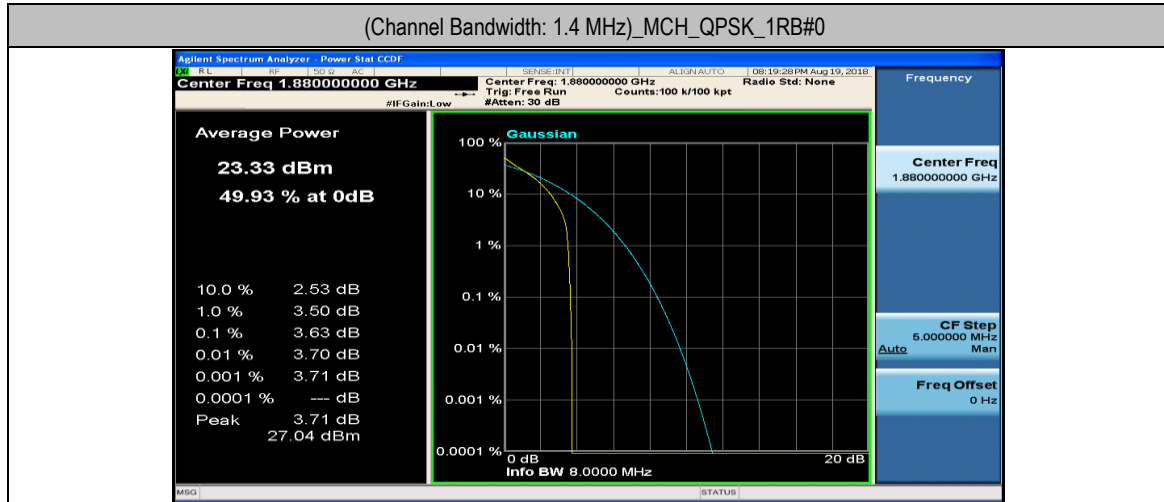
### Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	3.38	<13	PASS
16QAM	MCH	1	0	4.31	<13	PASS

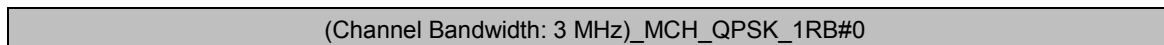


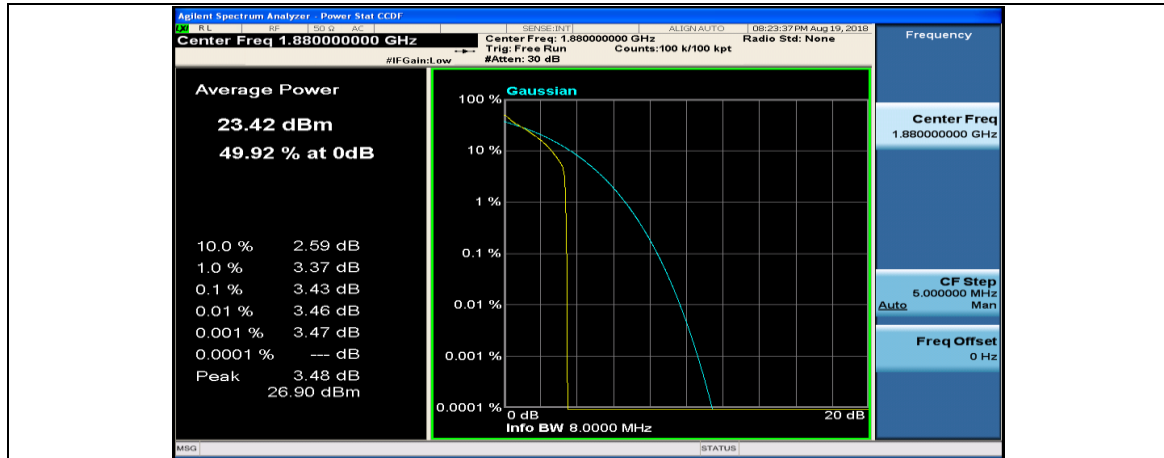
## Test Graphs

### Channel Bandwidth: 1.4 MHz

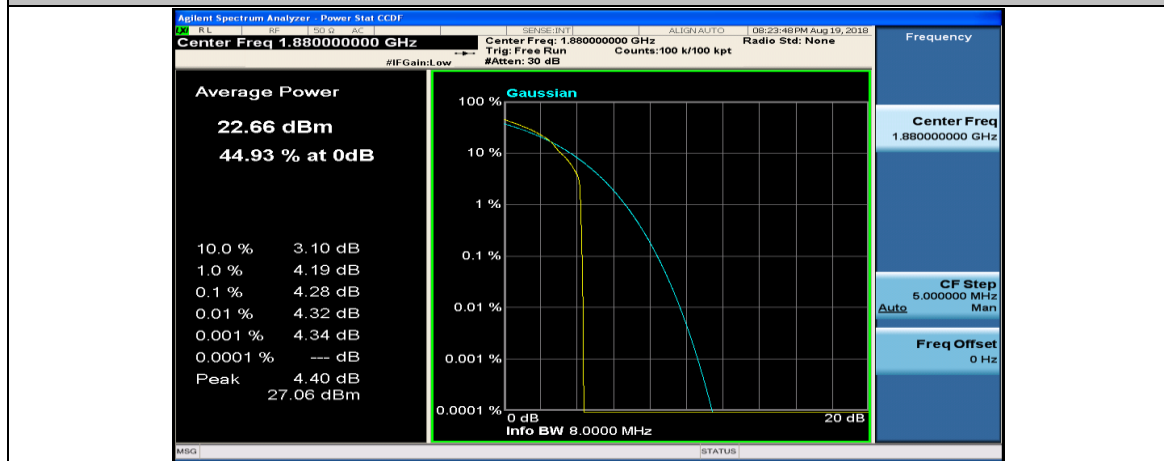


### Channel Bandwidth: 3 MHz



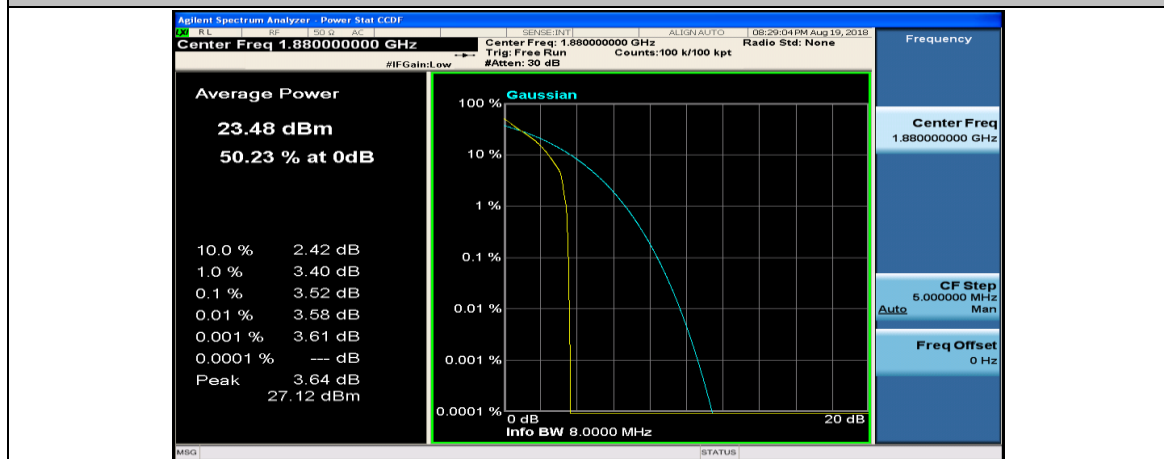


(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#0

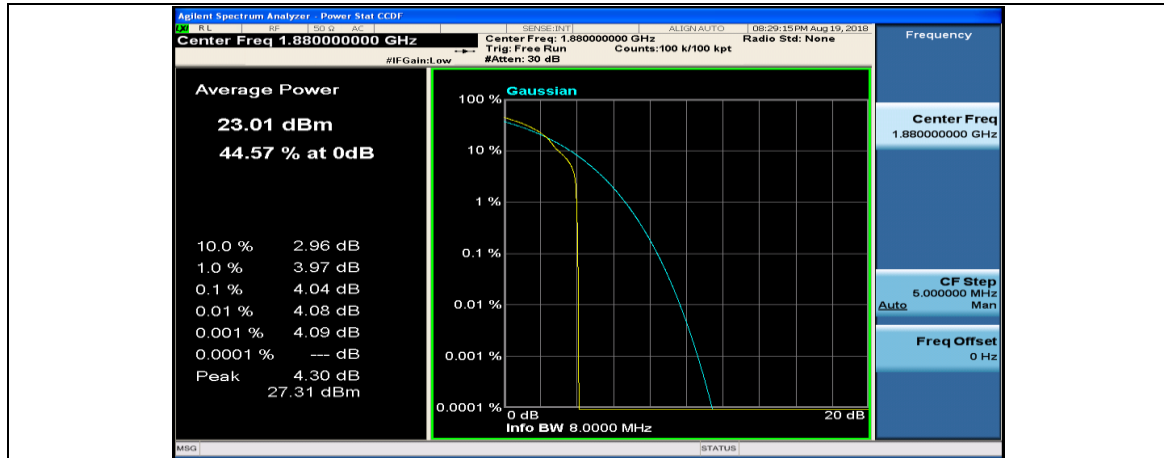


Channel Bandwidth: 5 MHz

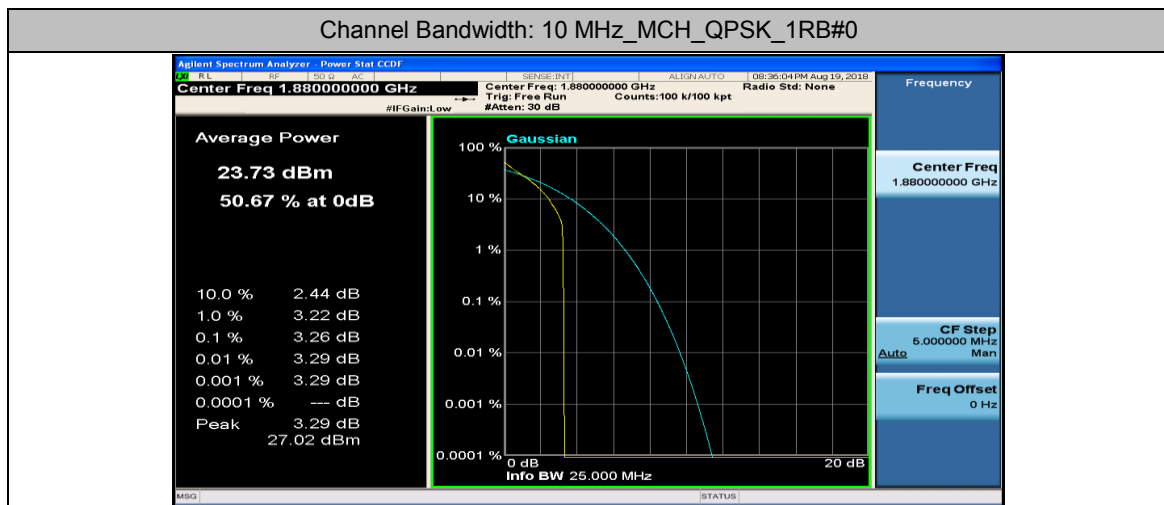
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



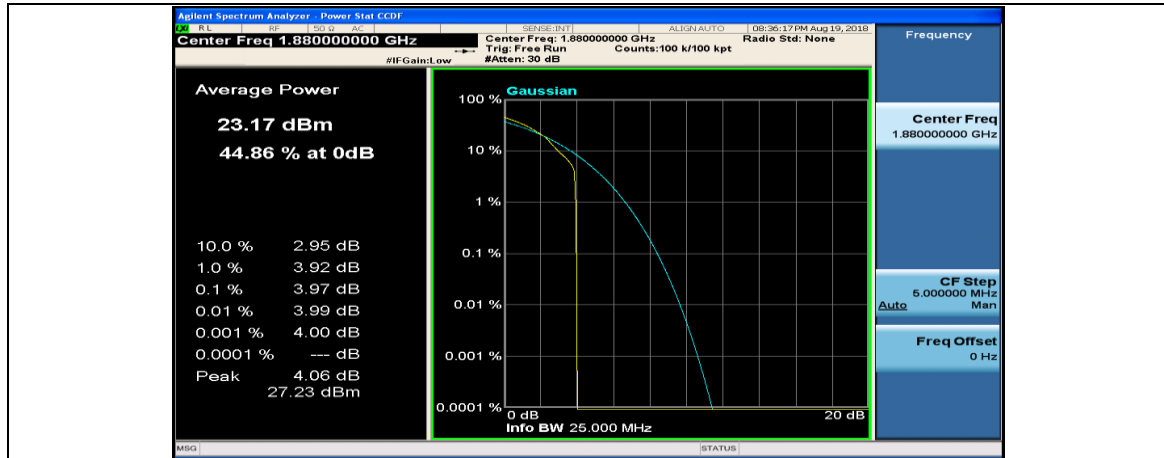
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0



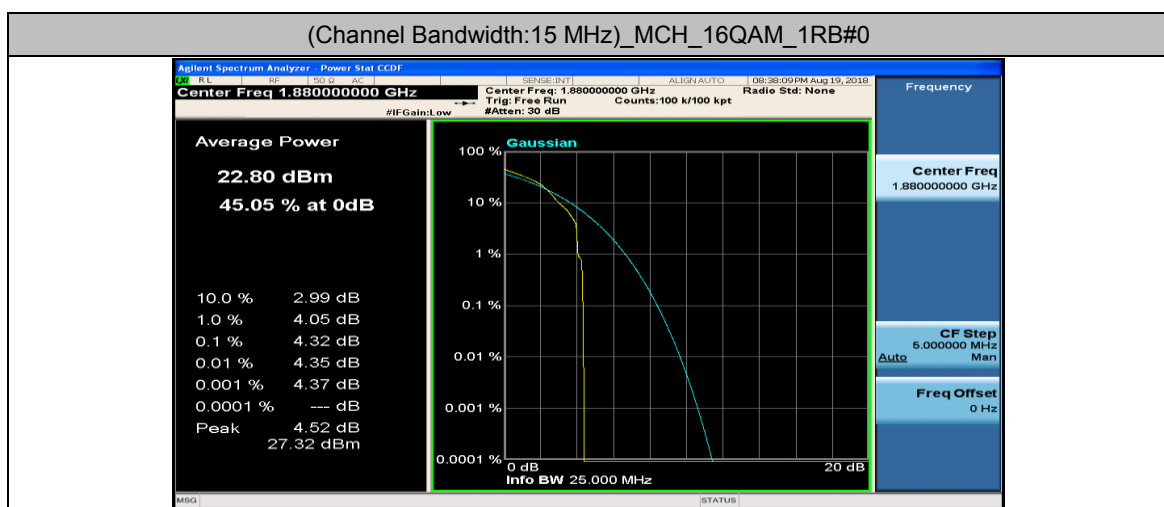
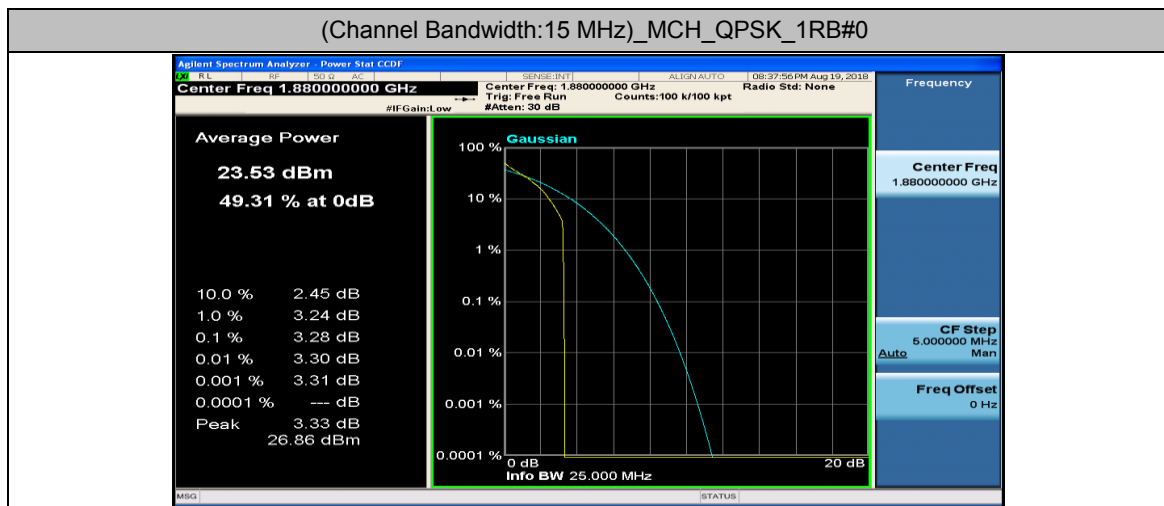
## Channel Bandwidth: 10 MHz



## Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



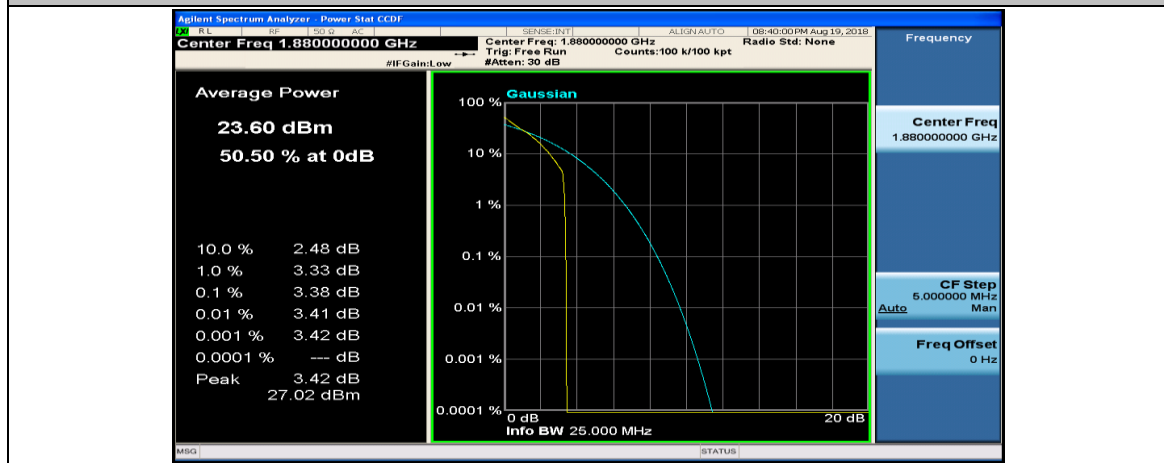
## Channel Bandwidth: 15 MHz



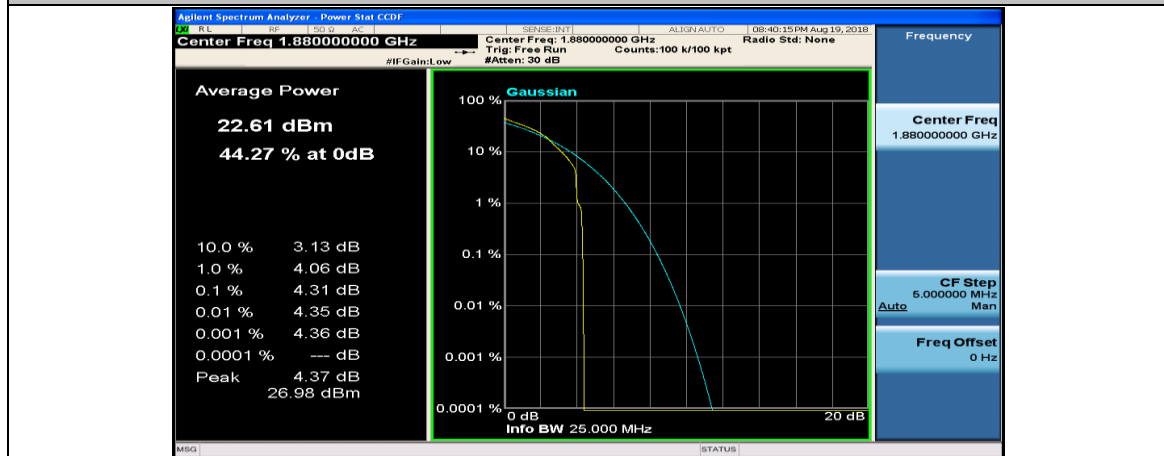


## Channel Bandwidth: 20 MHz

(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#0



(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0





## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

#### Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0788	1.222	PASS
	MCH	6	0	1.0764	1.200	PASS
	HCH	6	0	1.0792	1.223	PASS
16QAM	LCH	6	0	1.0796	1.209	PASS
	MCH	6	0	1.0786	1.218	PASS
	HCH	6	0	1.0794	1.224	PASS

#### Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6839	2.914	PASS
	MCH	15	0	2.6869	2.918	PASS
	HCH	15	0	2.6813	2.861	PASS
16QAM	LCH	15	0	2.6846	2.899	PASS
	MCH	15	0	2.6893	2.877	PASS
	HCH	15	0	2.6781	2.902	PASS

#### Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4764	4.822	PASS
	MCH	25	0	4.4706	4.813	PASS
	HCH	25	0	4.4672	4.781	PASS
16QAM	LCH	25	0	4.4818	4.770	PASS
	MCH	25	0	4.4722	4.739	PASS





	HCH	25	0	4.4645	4.806	PASS
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### Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9434	9.520	PASS
	MCH	50	0	8.9283	9.474	PASS
	HCH	50	0	8.9336	9.438	PASS
16QAM	LCH	50	0	8.9316	9.492	PASS
	MCH	50	0	8.9361	9.473	PASS
	HCH	50	0	8.9086	9.364	PASS

### Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.417	14.07	PASS
	MCH	75	0	13.414	14.08	PASS
	HCH	75	0	13.392	14.09	PASS
16QAM	LCH	75	0	13.409	14.04	PASS
	MCH	75	0	13.400	14.15	PASS
	HCH	75	0	13.399	14.12	PASS

### Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.850	18.69	PASS
	MCH	100	0	17.858	18.58	PASS
	HCH	100	0	17.870	18.68	PASS
16QAM	LCH	100	0	17.860	18.65	PASS

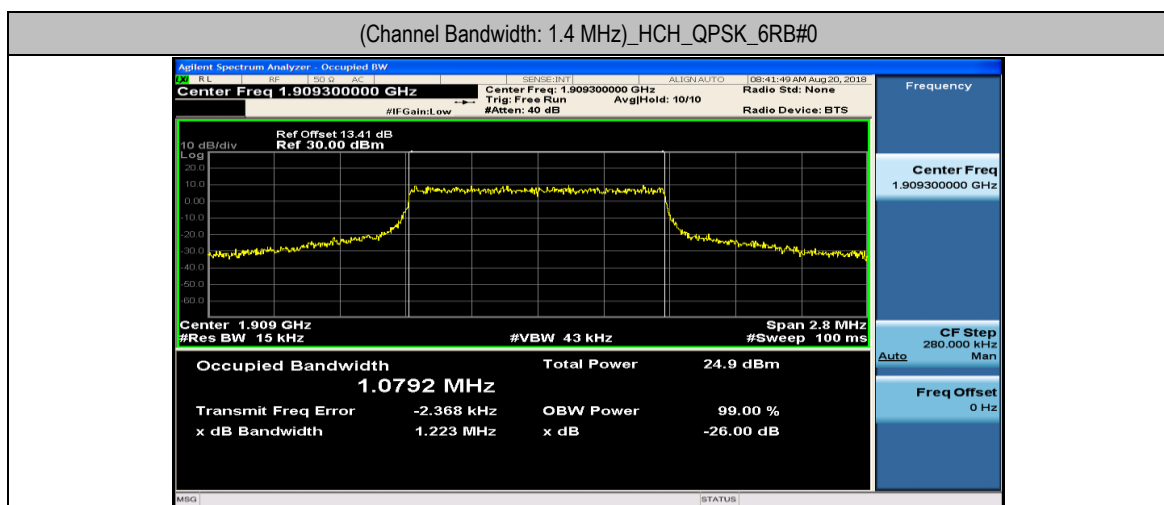
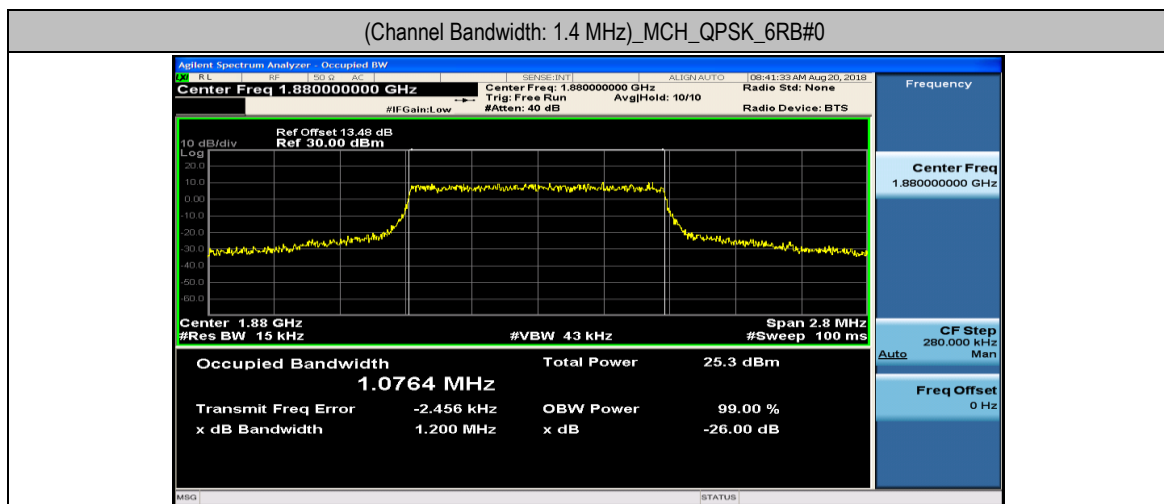
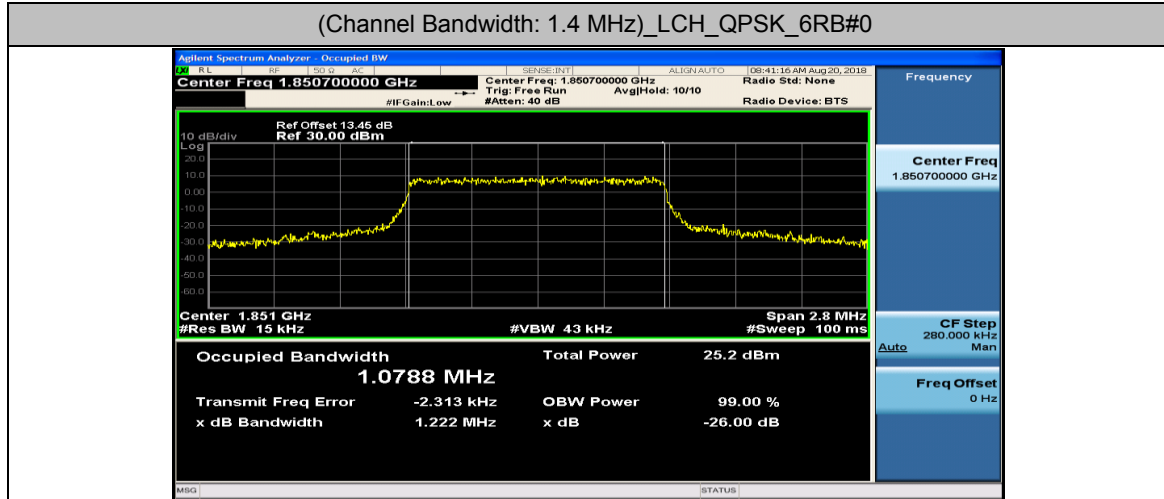


	MCH	100	0	17.855	18.64	PASS
	HCH	100	0	17.851	18.71	PASS



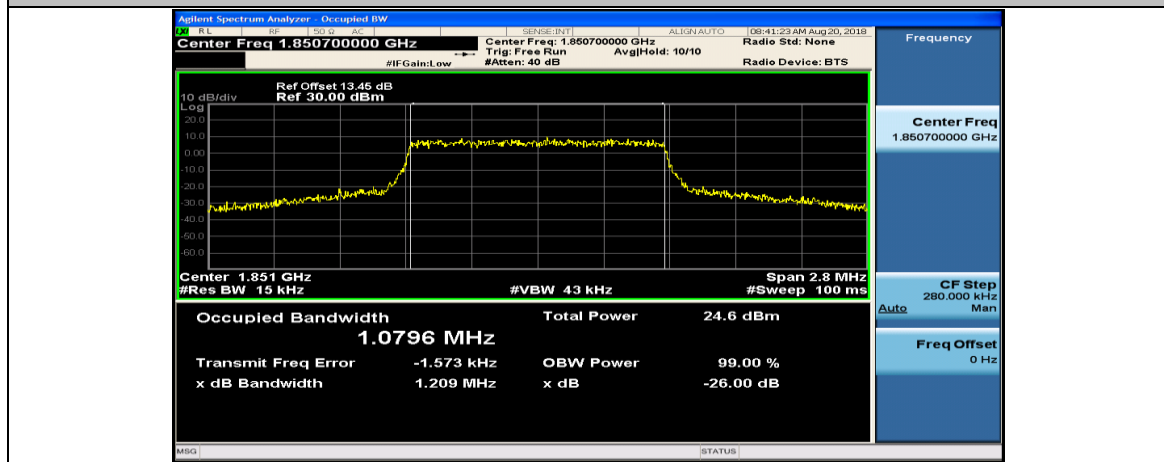
## Test Graphs

### Channel Bandwidth: 1.4 MHz

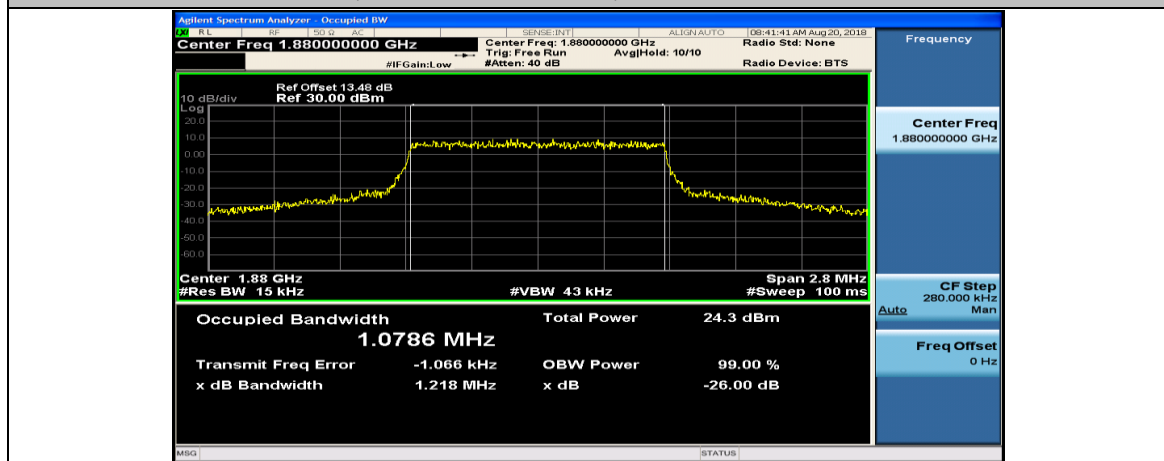




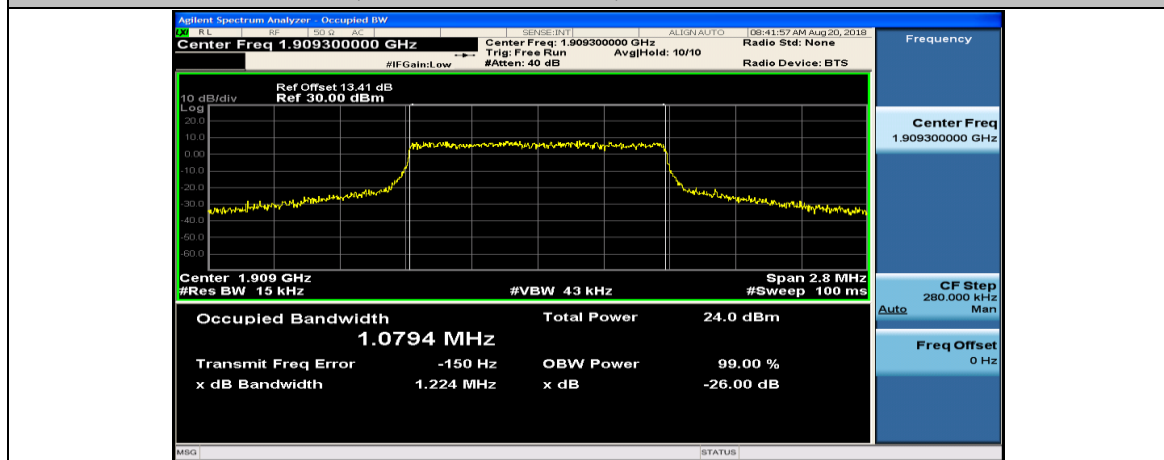
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(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_6RB#0



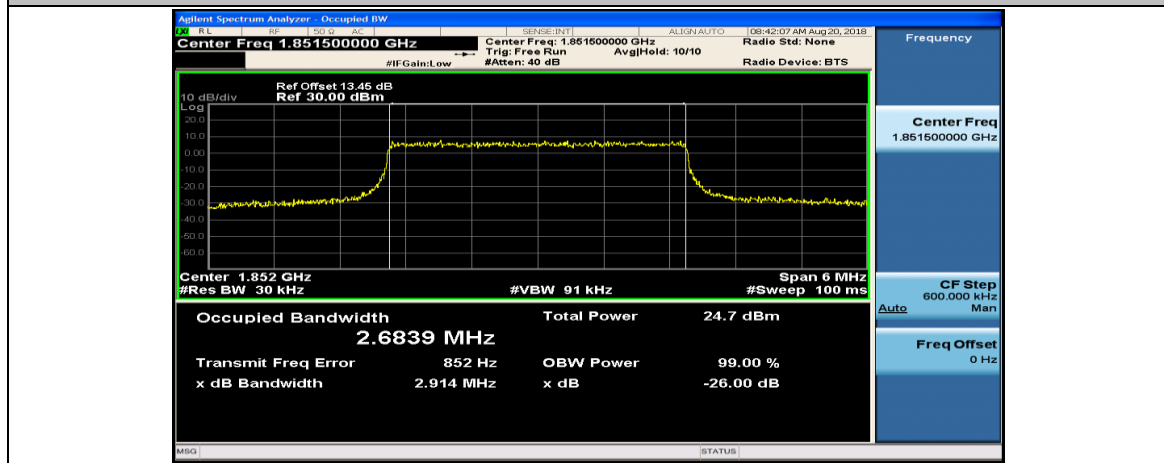
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_6RB#0



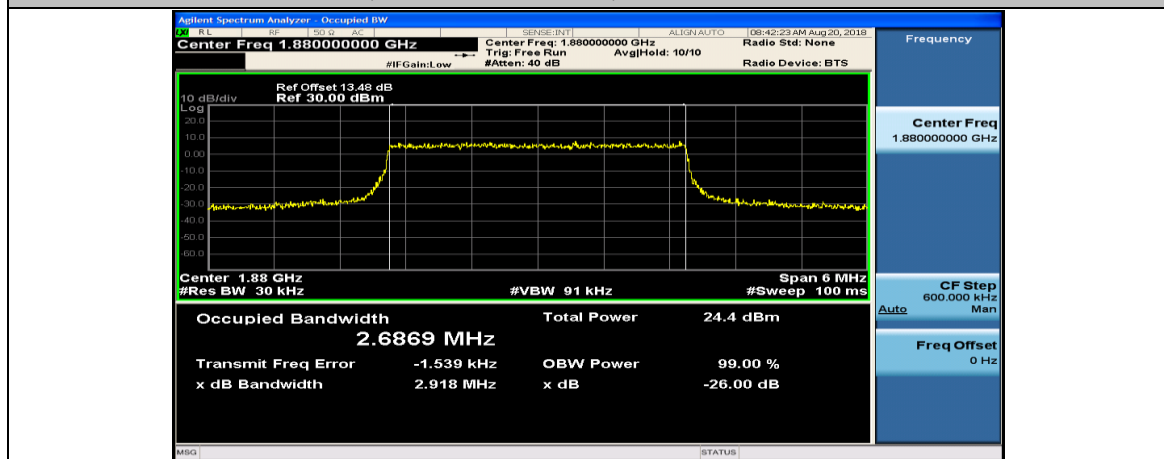


## Channel Bandwidth: 3 MHz

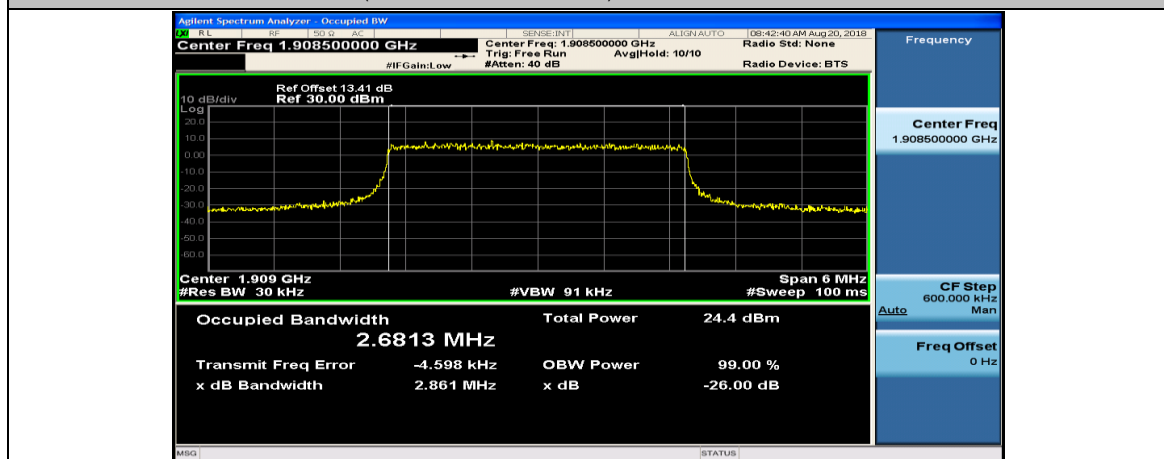
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(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_15RB#0

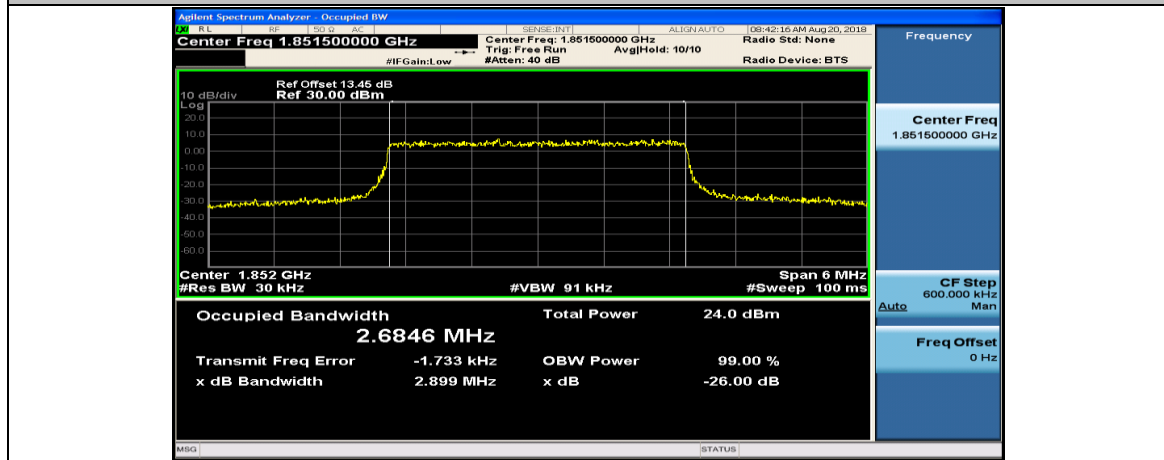


(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_15RB#0

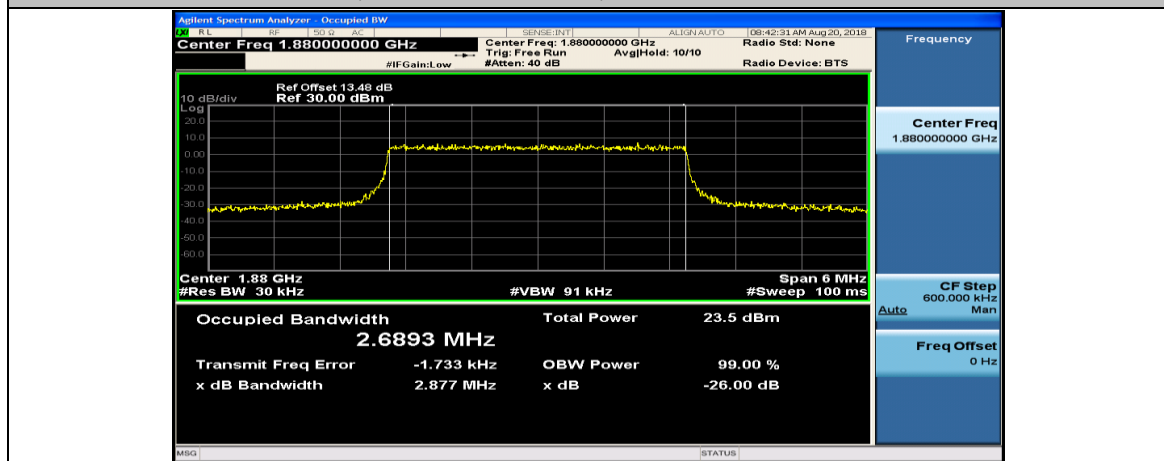




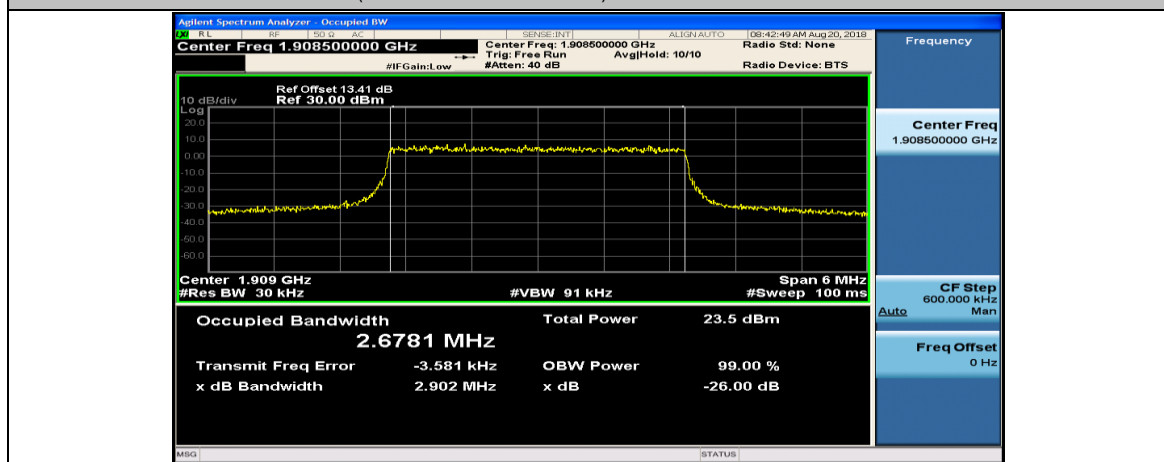
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_15RB#0



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_15RB#0



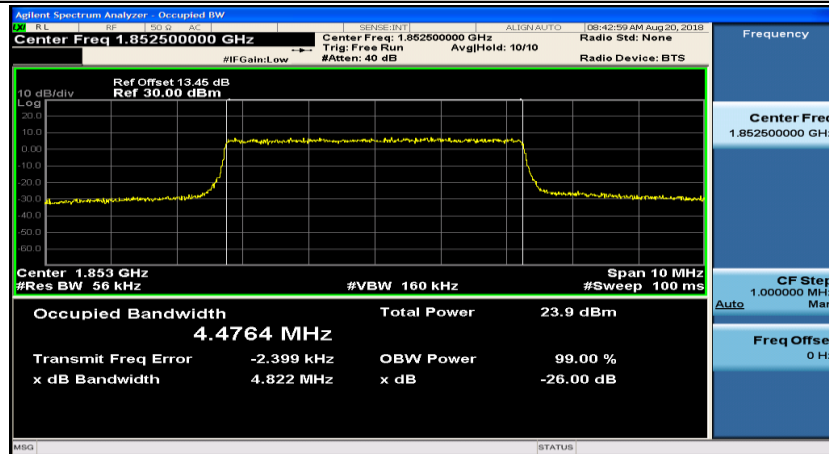
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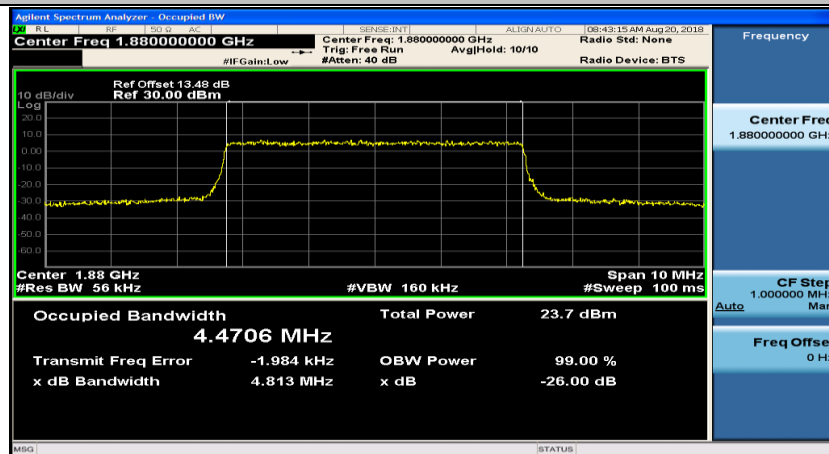


## Channel Bandwidth: 5 MHz

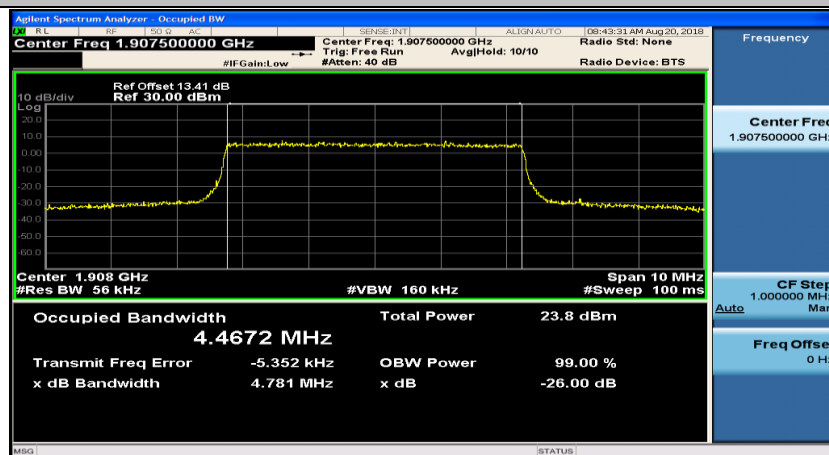
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0

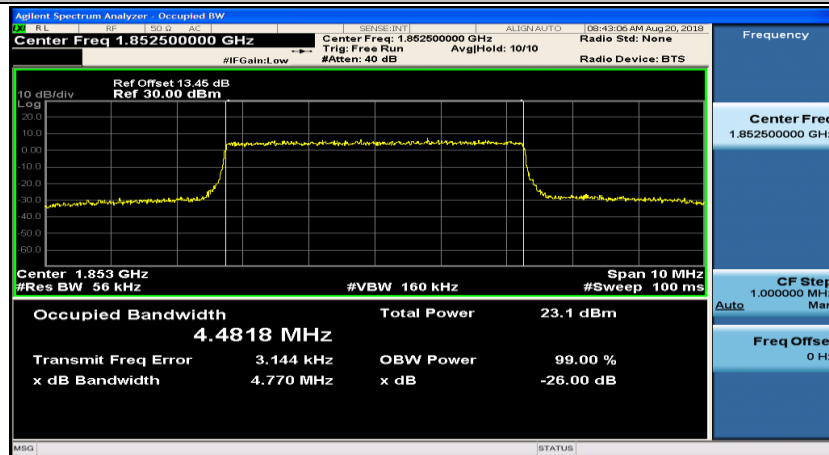


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0

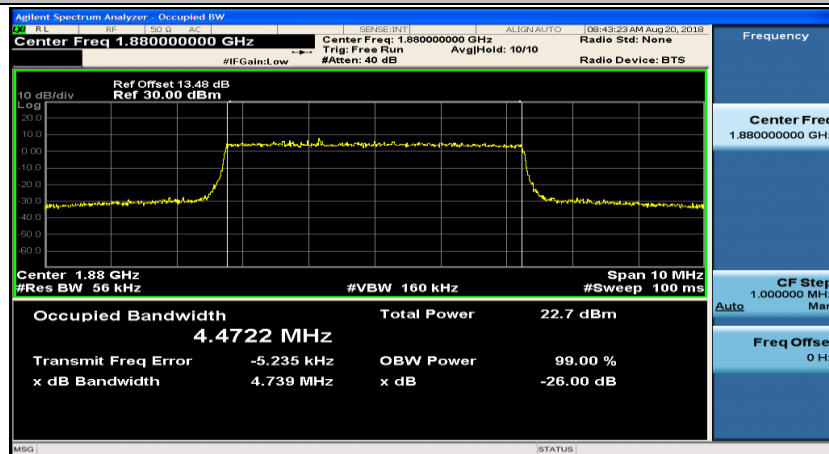




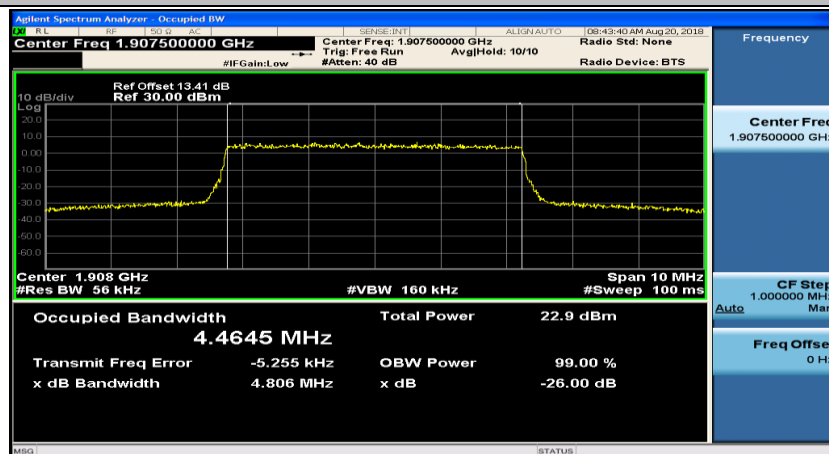
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_25RB#0



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

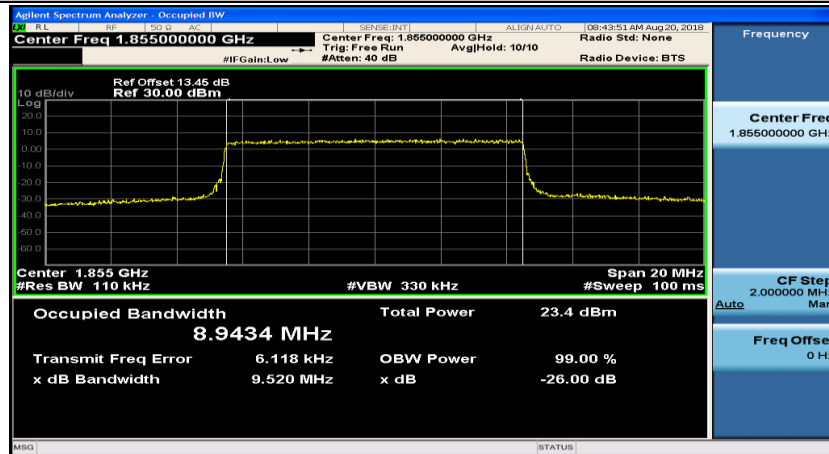




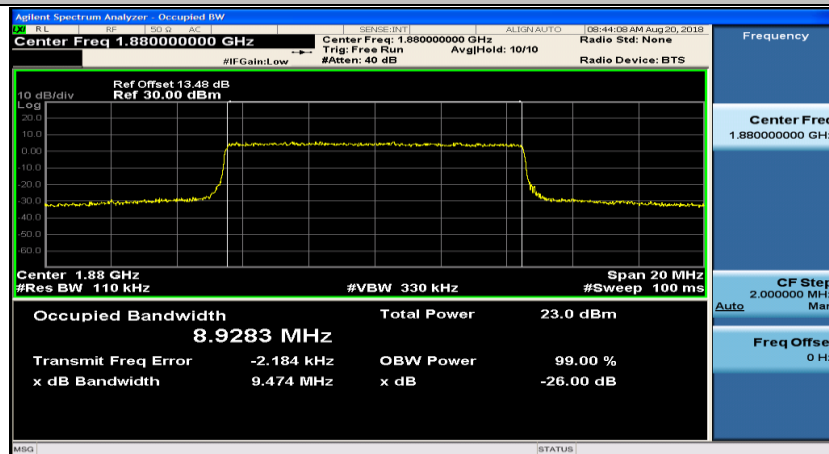


## Channel Bandwidth: 10 MHz

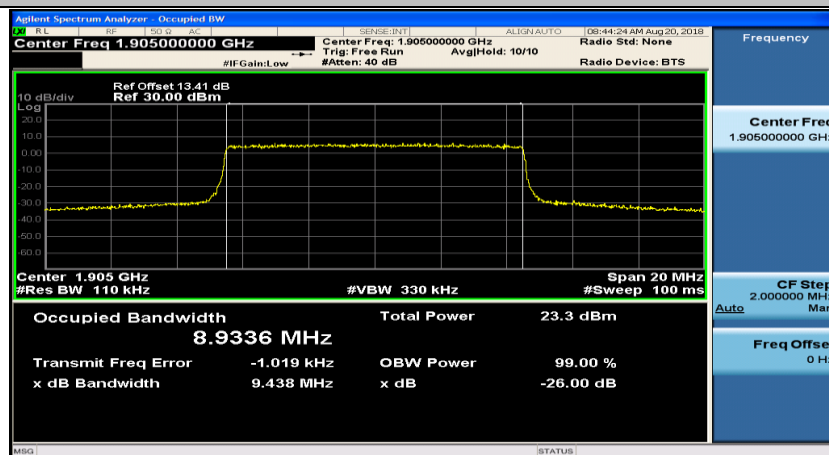
(Channel Bandwidth: 10 MHz)\_LCH\_QPSK\_50RB#0



(Channel Bandwidth: 10 MHz)\_MCH\_QPSK\_50RB#0

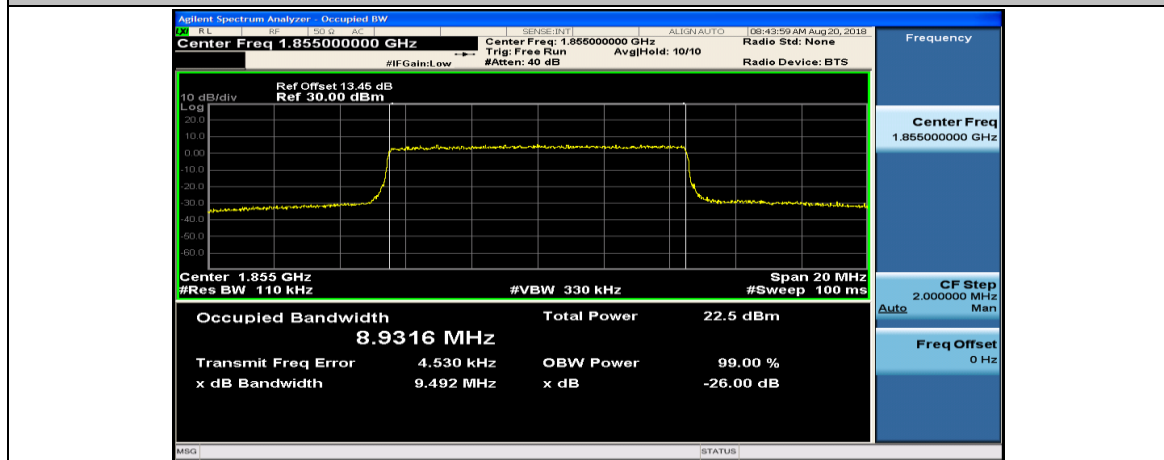


(Channel Bandwidth: 10 MHz)\_HCH\_QPSK\_50RB#0

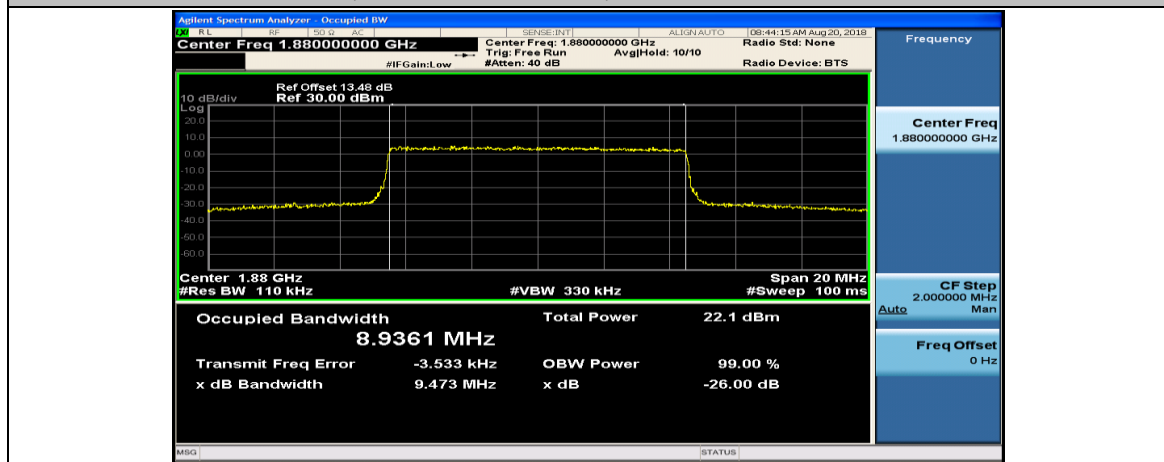




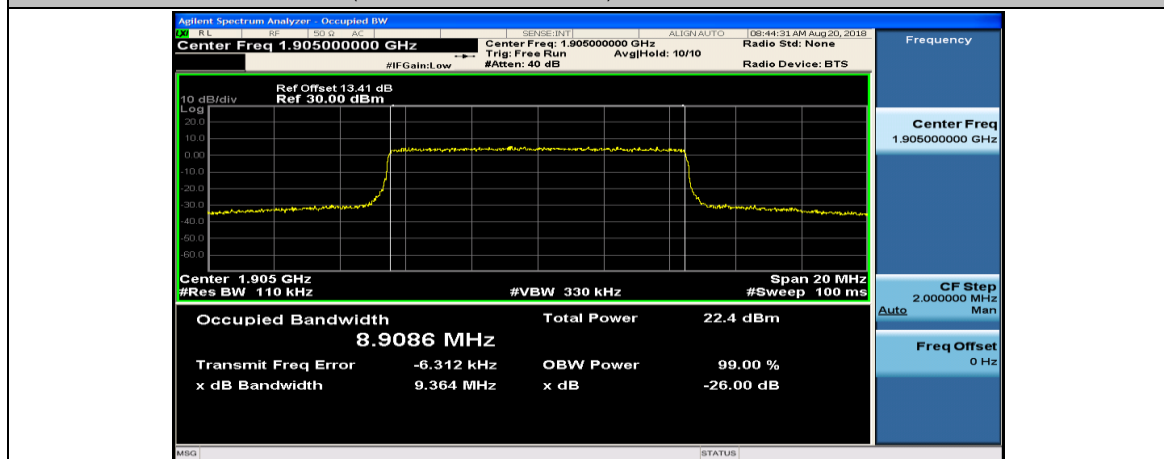
(Channel Bandwidth: 10 MHz)\_LCH\_16QAM\_50RB#0



(Channel Bandwidth: 10 MHz)\_MCH\_16QAM\_50RB#0



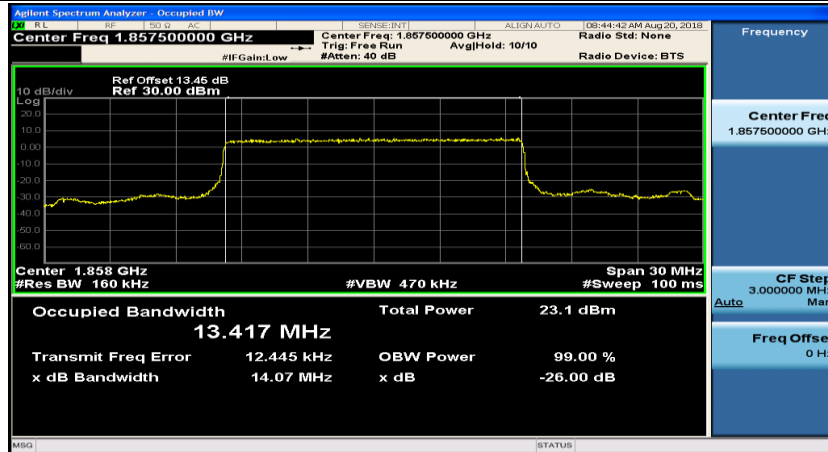
(Channel Bandwidth: 10 MHz)\_HCH\_16QAM\_50RB#0



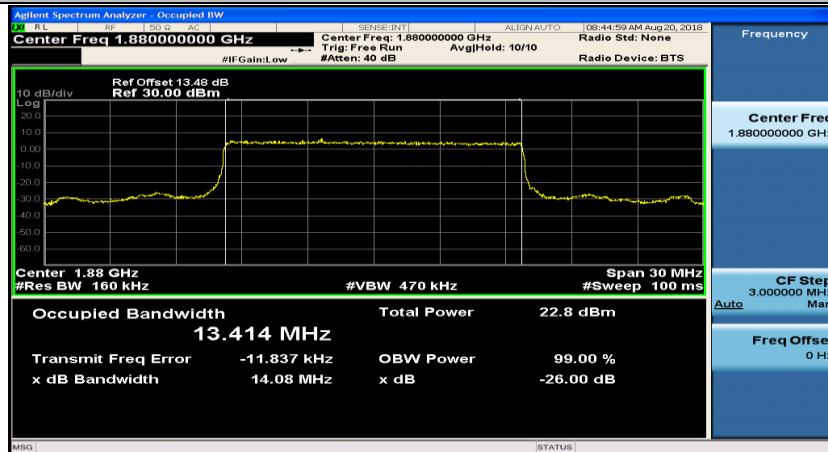


## Channel Bandwidth: 15 MHz

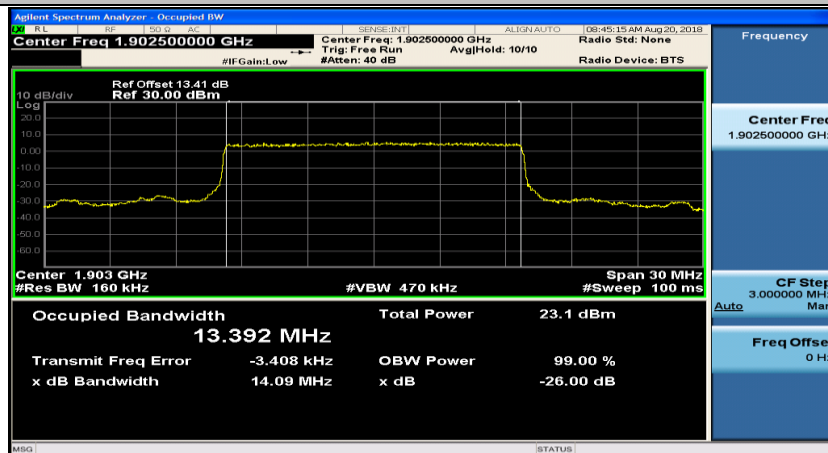
(Channel Bandwidth: 15 MHz)\_LCH\_QPSK\_75RB#0



(Channel Bandwidth: 15 MHz)\_MCH\_QPSK\_75RB#0

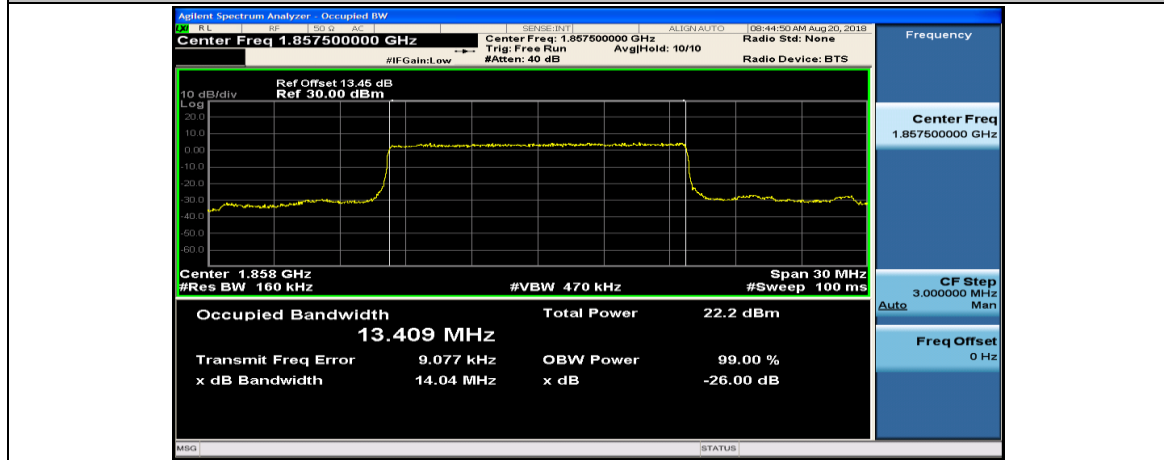


(Channel Bandwidth: 15 MHz)\_HCH\_QPSK\_75RB#0

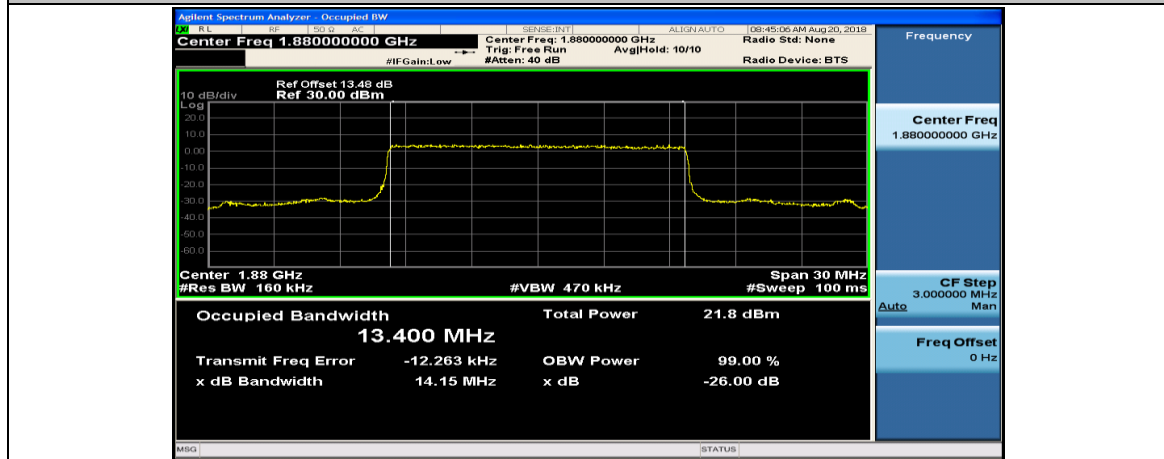




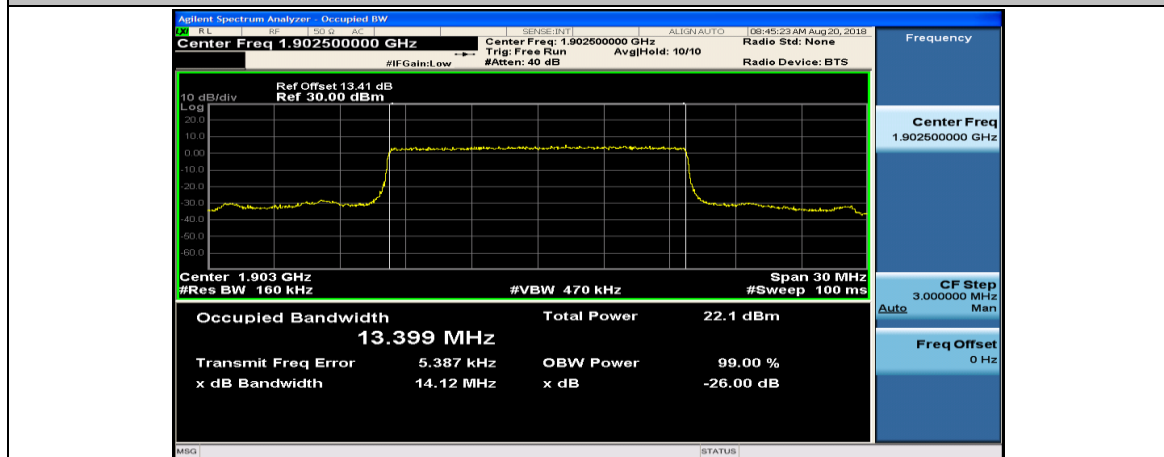
(Channel Bandwidth: 15 MHz)\_LCH\_16QAM\_75RB#0



(Channel Bandwidth: 15 MHz)\_MCH\_16QAM\_75RB#0



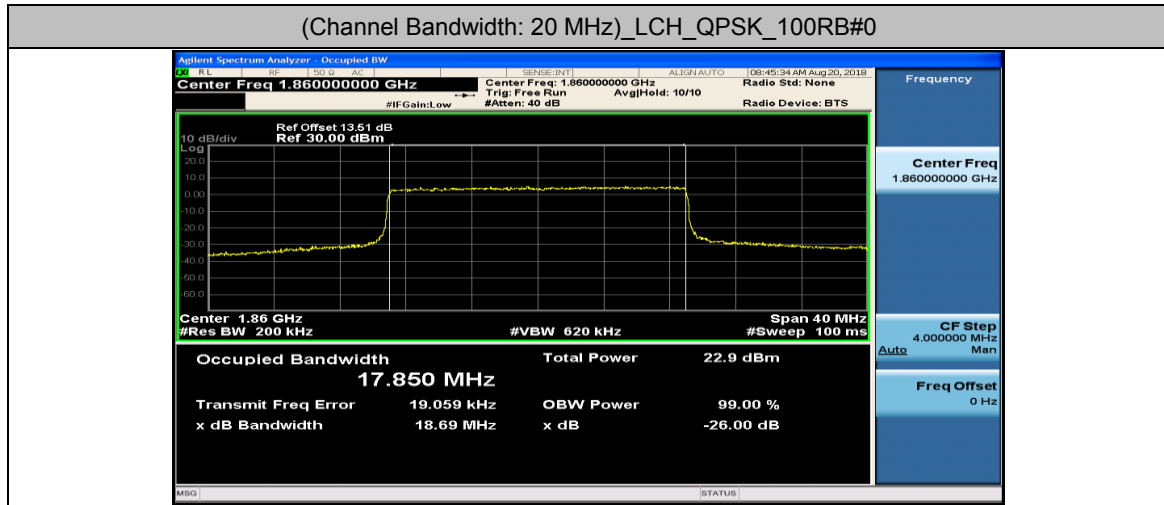
(Channel Bandwidth: 15 MHz)\_HCH\_16QAM\_75RB#0



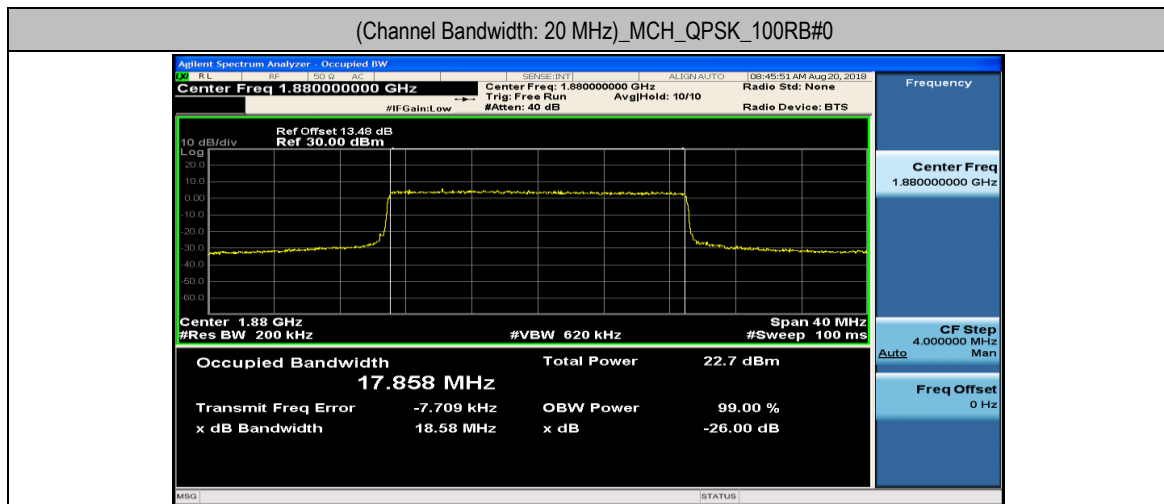


## Channel Bandwidth: 20 MHz

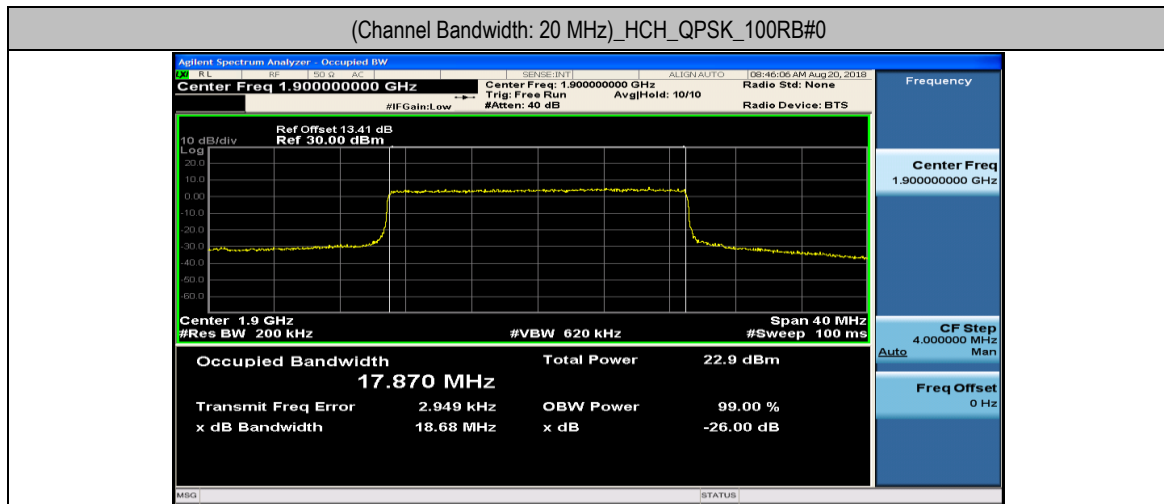
(Channel Bandwidth: 20 MHz)\_LCH\_QPSK\_100RB#0



(Channel Bandwidth: 20 MHz)\_MCH\_QPSK\_100RB#0

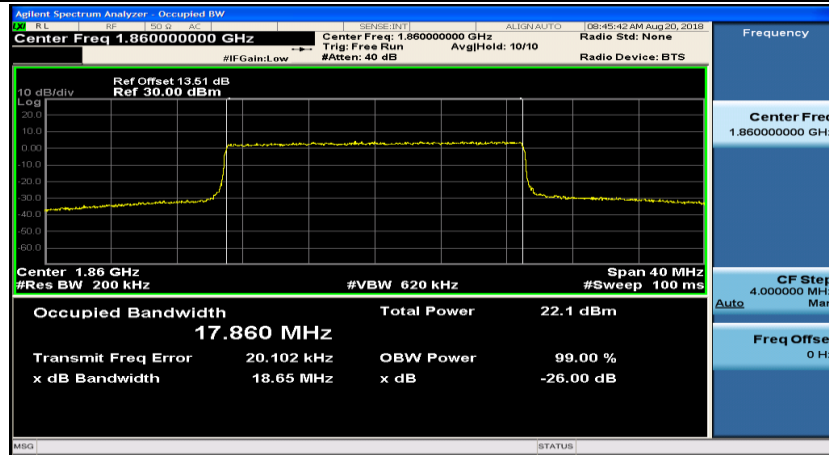


(Channel Bandwidth: 20 MHz)\_HCH\_QPSK\_100RB#0

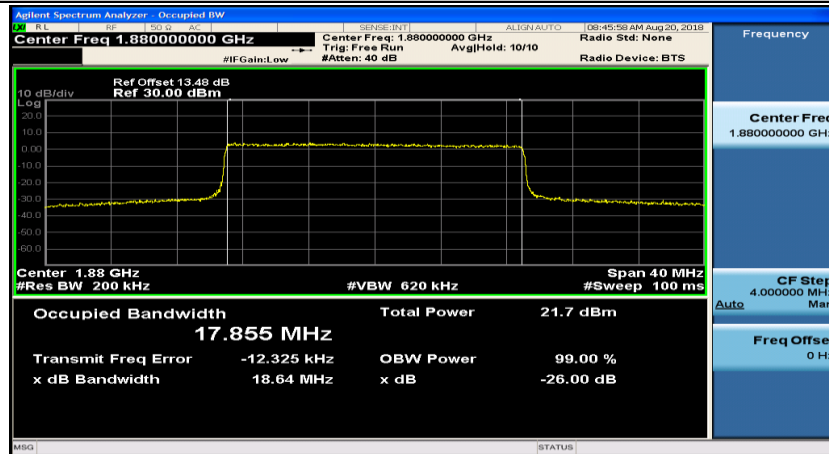




(Channel Bandwidth: 20 MHz)\_LCH\_16QAM\_100RB#0



(Channel Bandwidth: 20 MHz)\_MCH\_16QAM\_100RB#0



(Channel Bandwidth: 20 MHz)\_HCH\_16QAM\_100RB#0

