Appendix for Band 12

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.88	PASS
		1	12	23.86	PASS
		1	24	23.6	PASS
		12	0	22.79	PASS
		12	6	22.78	PASS
		12	13	22.68	PASS
		25	0	22.72	PASS
	MCH	1	0	23.69	PASS
		1	12	23.65	PASS
		1	24	23.43	PASS
		12	0	22.62	PASS
		12	6	22.56	PASS
		12	13	22.5	PASS
		25	0	22.5	PASS
	HCH	1	0	23.57	PASS
		1	12	23.54	PASS
		1	24	23.39	PASS
		12	0	22.46	PASS
		12	6	22.43	PASS
		12	13	22.37	PASS
		25	0	22.39	PASS
16QAM	LCH	1	0	22.89	PASS
		1	12	22.95	PASS
		1	24	22.76	PASS
		12	0	21.91	PASS
		12	6	21.81	PASS
		12	13	21.7	PASS
		25	0	21.7	PASS
	MCH	1	0	22.8	PASS
		1	12	22.83	PASS
		1	24	22.65	PASS

		12	0	21.69	PASS
		12	6	21.66	PASS
		12	13	21.61	PASS
		25	0	21.5	PASS
	HCH	1	0	22.7	PASS
		1	12	22.7	PASS
		1	24	22.53	PASS
		12	0	21.46	PASS
		12	6	21.41	PASS
		12	13	21.34	PASS
		25	0	21.41	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.99	PASS
		1	24	23.54	PASS
		1	49	23.34	PASS
		25	0	22.82	PASS
		25	12	22.56	PASS
		25	25	22.47	PASS
		50	0	22.62	PASS
	MCH	1	0	23.84	PASS
		1	24	23.52	PASS
		1	49	23.32	PASS
		25	0	22.63	PASS
		25	12	22.52	PASS
		25	25	22.42	PASS
		50	0	22.55	PASS
	HCH	1	0	23.76	PASS
		1	24	23.51	PASS
		1	49	23.33	PASS
		25	0	22.6	PASS
		25	12	22.49	PASS
		25	25	22.41	PASS
		50	0	22.51	PASS
16QAM	LCH	1	0	22.96	PASS
		1	24	22.73	PASS
		1	49	22.61	PASS
		25	0	21.68	PASS
		25	12	21.56	PASS
		25	25	21.5	PASS

		50	0	21.61	PASS
	MCH	1	0	22.96	PASS
		1	24	22.83	PASS
		1	49	22.7	PASS
		25	0	21.65	PASS
		25	12	21.56	PASS
		25	25	21.45	PASS
		50	0	21.57	PASS
	HCH	1	0	22.92	PASS
		1	24	22.72	PASS
		1	49	22.56	PASS
		25	0	21.59	PASS
		25	12	21.47	PASS
		25	25	21.4	PASS
		50	0	21.52	PASS

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.94	<13	PASS
		1	12	3.58	<13	PASS
		1	24	3.46	<13	PASS
		12	0	4.58	<13	PASS
		12	6	4.41	<13	PASS
		12	13	4.25	<13	PASS
		25	0	4.57	<13	PASS
	MCH	1	0	3.41	<13	PASS
		1	12	3.39	<13	PASS
		1	24	3.53	<13	PASS
		12	0	4.23	<13	PASS
		12	6	4.2	<13	PASS
		12	13	4.27	<13	PASS
		25	0	4.39	<13	PASS
	HCH	1	0	3.58	<13	PASS
		1	12	3.91	<13	PASS
		1	24	3.89	<13	PASS
		12	0	4.47	<13	PASS
		12	6	4.63	<13	PASS
		12	13	4.73	<13	PASS
		25	0	4.81	<13	PASS
16QAM	LCH	1	0	4.83	<13	PASS
		1	12	4.64	<13	PASS
		1	24	4.39	<13	PASS
		12	0	5.44	<13	PASS
		12	6	5.27	<13	PASS
		12	13	5.13	<13	PASS
		25	0	5.48	<13	PASS
	MCH	1	0	4.38	<13	PASS
		1	12	4.24	<13	PASS
		1	24	4.33	<13	PASS
		12	0	5.1	<13	PASS
		12	6	5.1	<13	PASS

		12	13	5.21	<13	PASS
		25	0	5.23	<13	PASS
	HCH	1	0	4.4	<13	PASS
		1	12	4.76	<13	PASS
		1	24	4.77	<13	PASS
		12	0	5.35	<13	PASS
		12	6	5.52	<13	PASS
		12	13	5.63	<13	PASS
		25	0	5.59	<13	PASS

Channel Bandwidth: 10 MHz

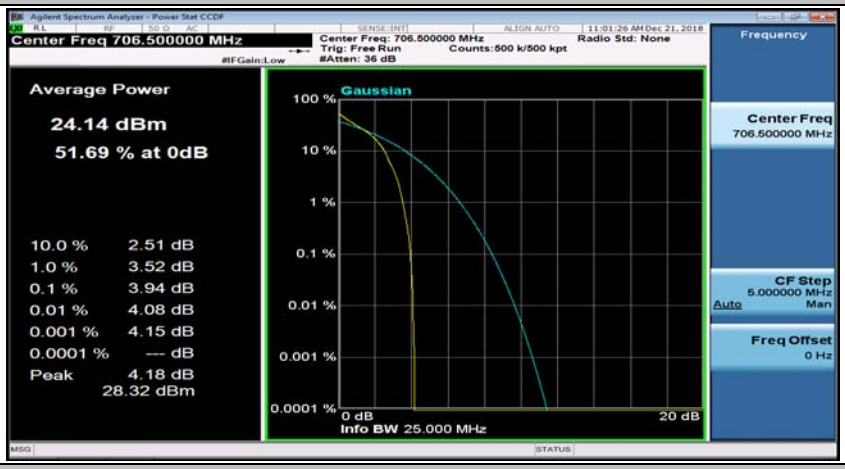
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.97	<13	PASS
		1	24	3.41	<13	PASS
		1	49	3.86	<13	PASS
		25	0	4.55	<13	PASS
		25	12	4.36	<13	PASS
		25	25	4.48	<13	PASS
		50	0	4.73	<13	PASS
	MCH	1	0	3.67	<13	PASS
		1	24	3.25	<13	PASS
		1	49	3.86	<13	PASS
		25	0	4.43	<13	PASS
		25	12	4.37	<13	PASS
		25	25	4.6	<13	PASS
		50	0	4.74	<13	PASS
	HCH	1	0	3.54	<13	PASS
		1	24	3.4	<13	PASS
		1	49	3.76	<13	PASS
		25	0	4.29	<13	PASS
		25	12	4.41	<13	PASS
		25	25	4.71	<13	PASS
		50	0	4.76	<13	PASS
16QAM	LCH	1	0	4.91	<13	PASS
		1	24	4.3	<13	PASS
		1	49	4.82	<13	PASS
		25	0	5.47	<13	PASS
		25	12	5.23	<13	PASS
		25	25	5.33	<13	PASS

		50	0	5.53	<13	PASS
	MCH	1	0	4.64	<13	PASS
		1	24	4.23	<13	PASS
		1	49	4.81	<13	PASS
		25	0	5.3	<13	PASS
		25	12	5.22	<13	PASS
		25	25	5.46	<13	PASS
		50	0	5.56	<13	PASS
	HCH	1	0	4.62	<13	PASS
		1	24	4.31	<13	PASS
		1	49	4.72	<13	PASS
		25	0	5.26	<13	PASS
		25	12	5.31	<13	PASS
		25	25	5.61	<13	PASS
		50	0	5.6	<13	PASS

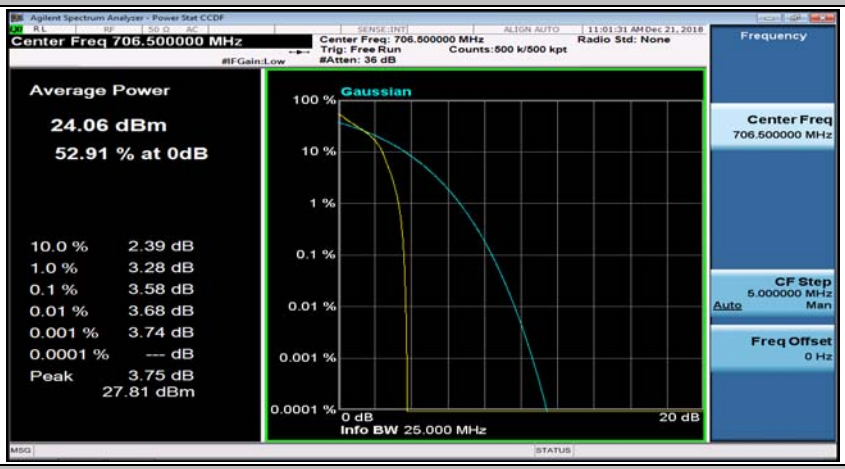
Test Graphs

Channel Bandwidth: 5 MHz

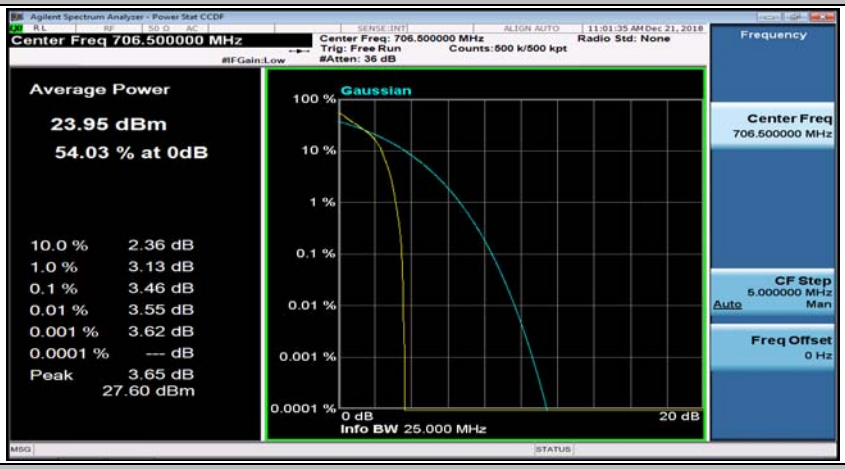
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



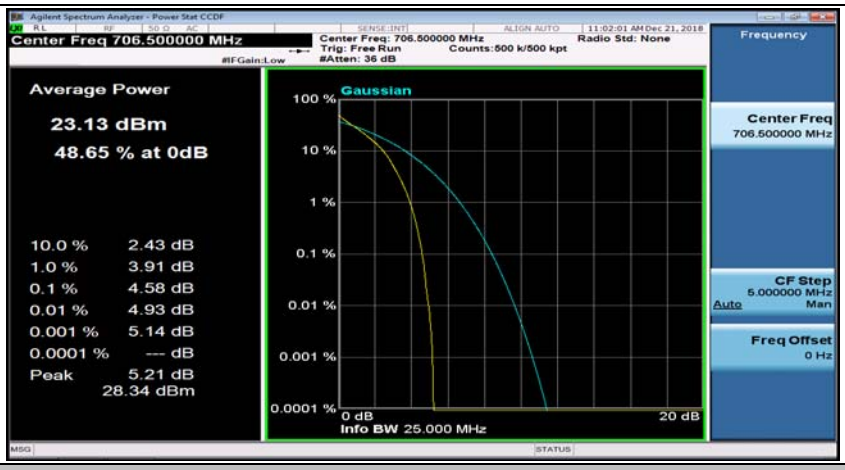
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



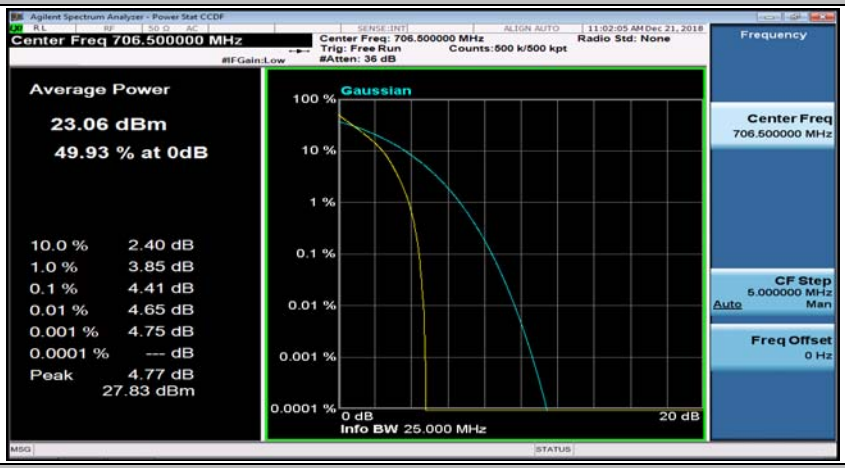
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0

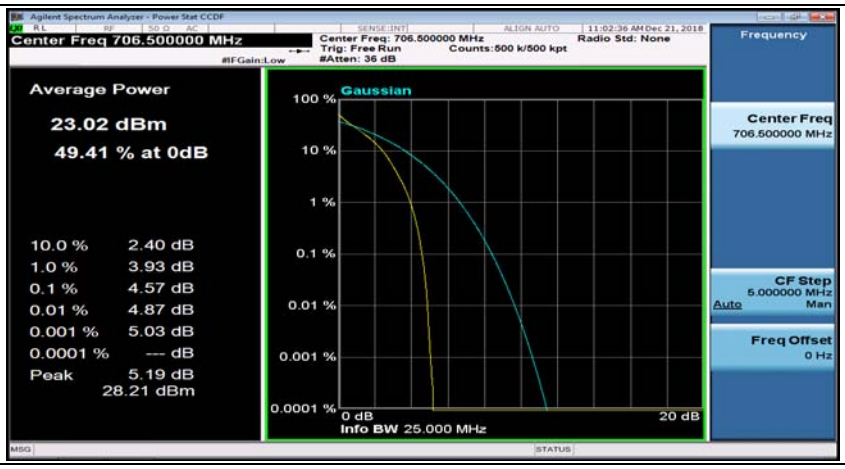


(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6

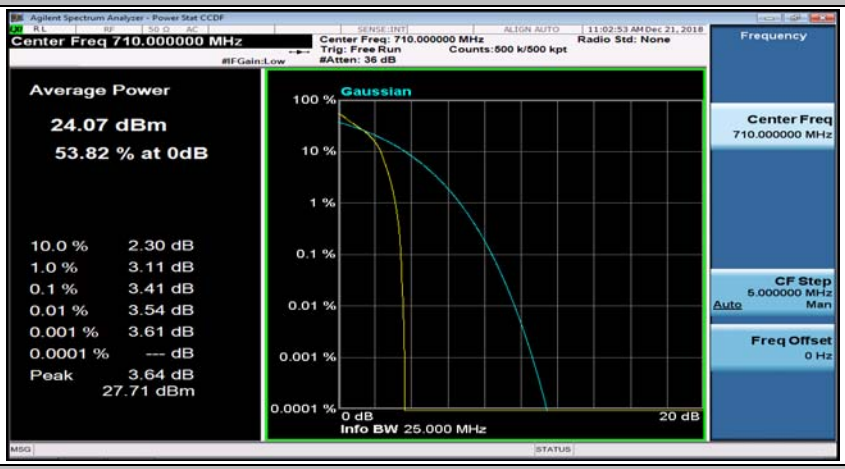


(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

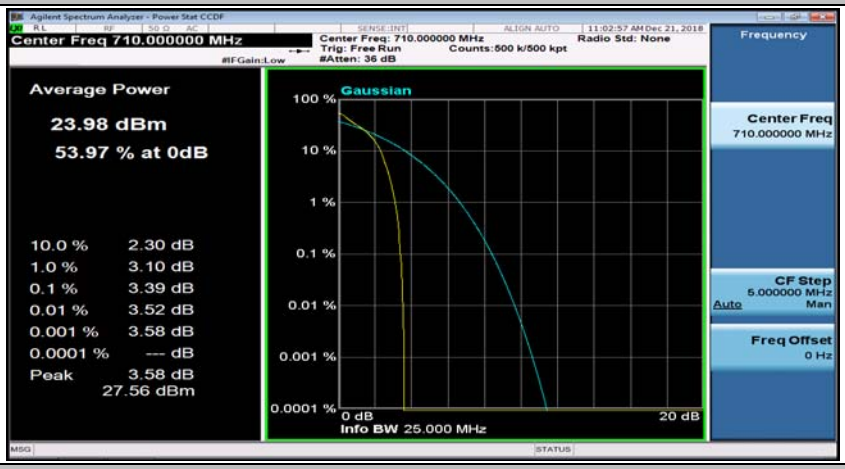
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

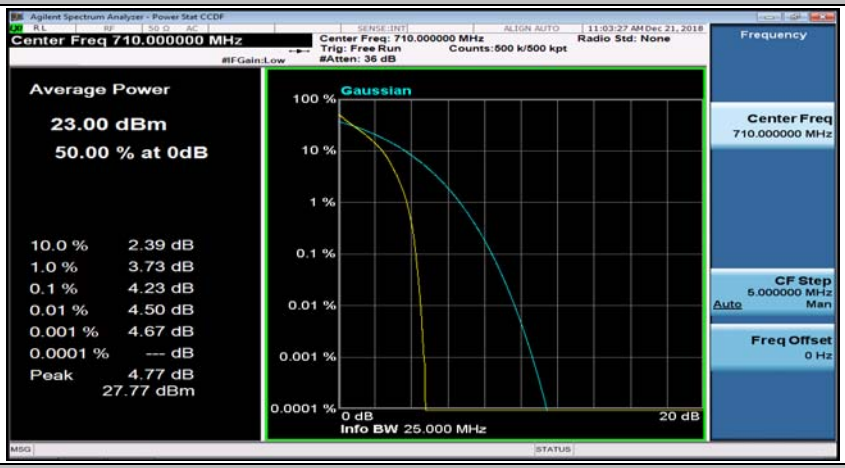


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



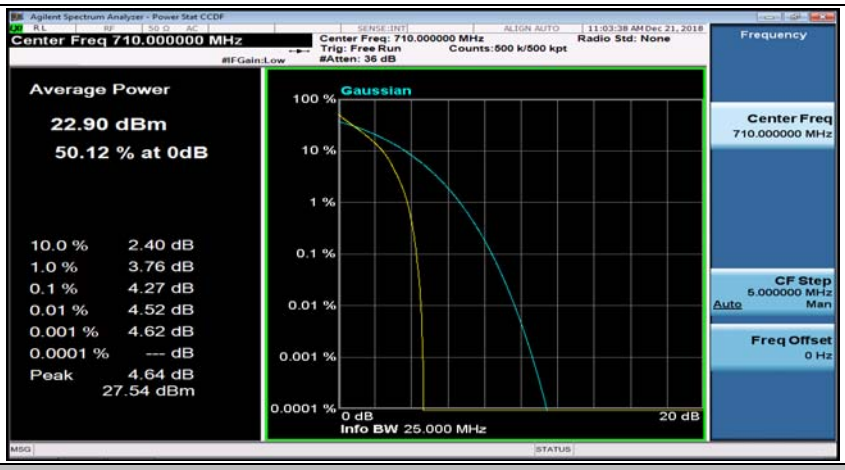
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0

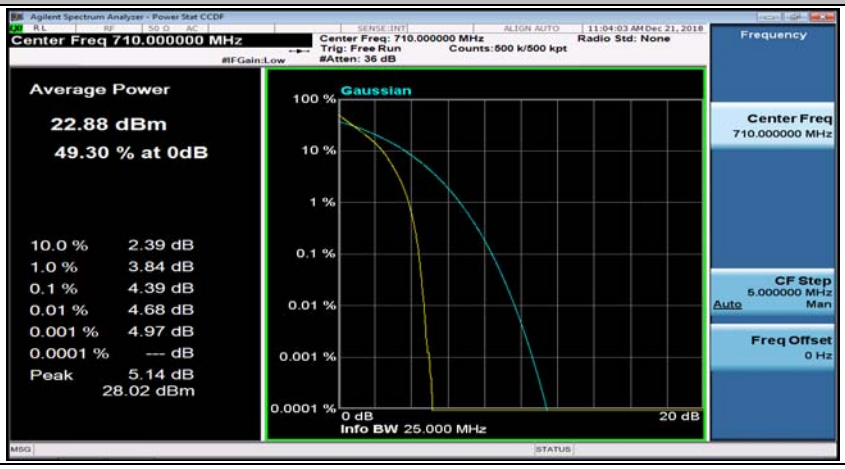


(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



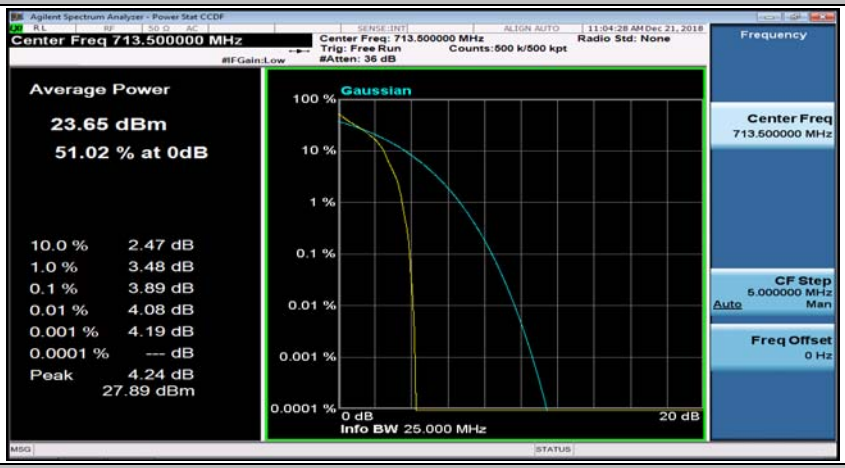
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

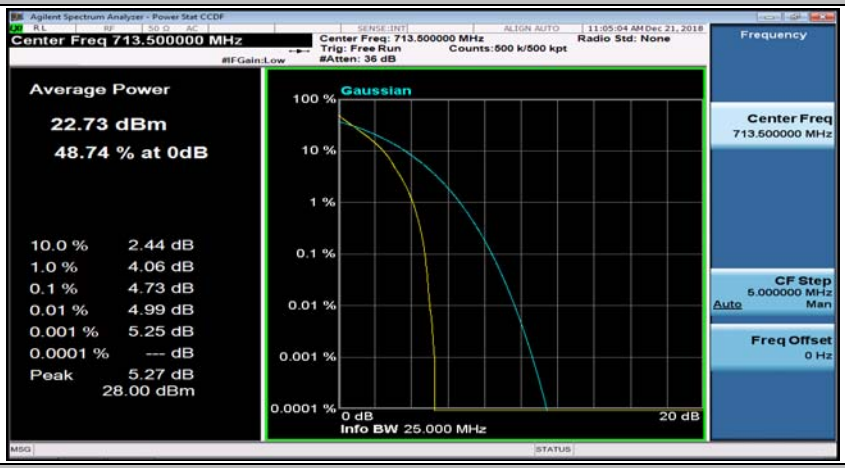
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

(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

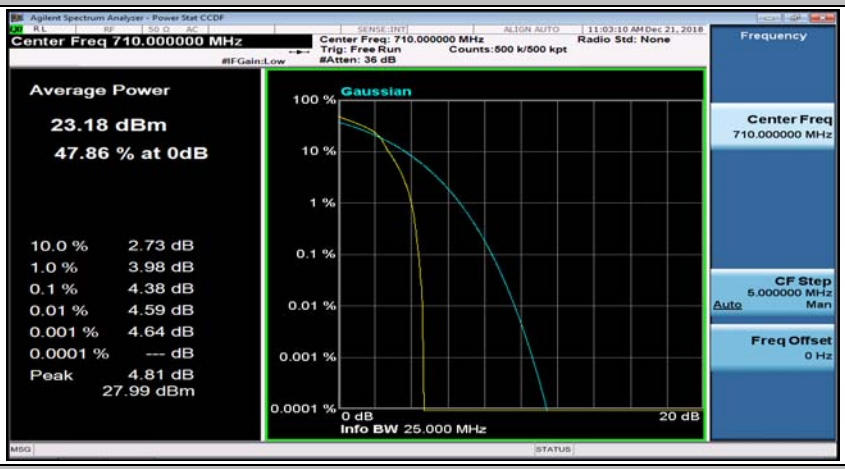
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6

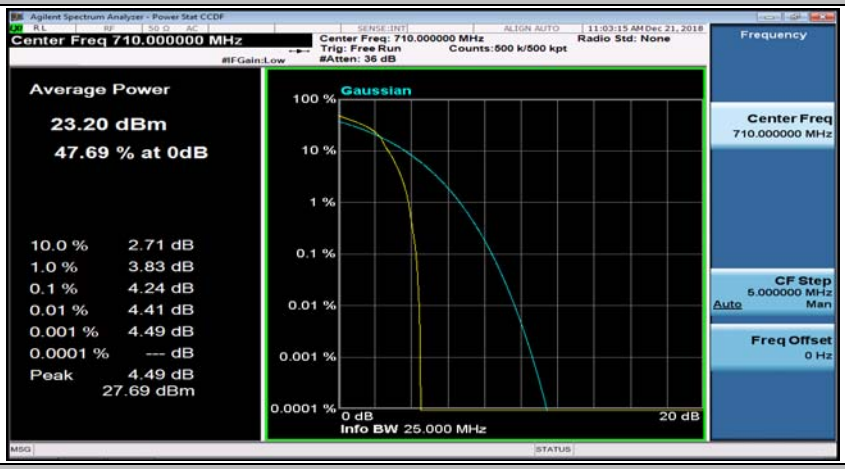
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

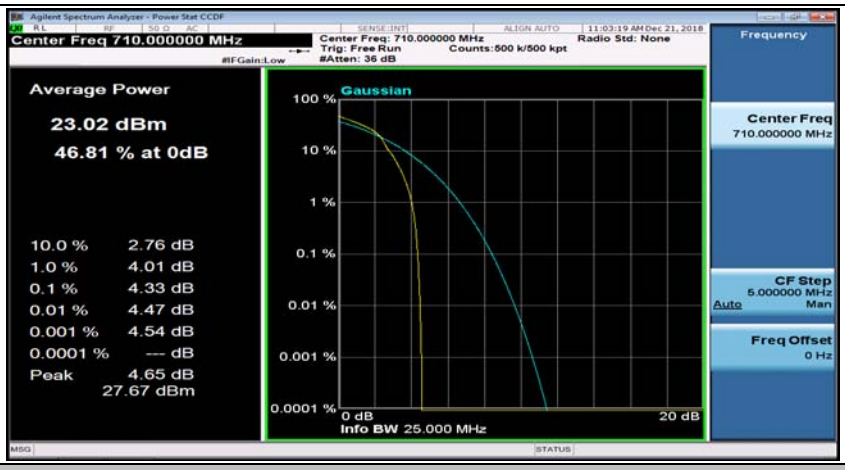
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



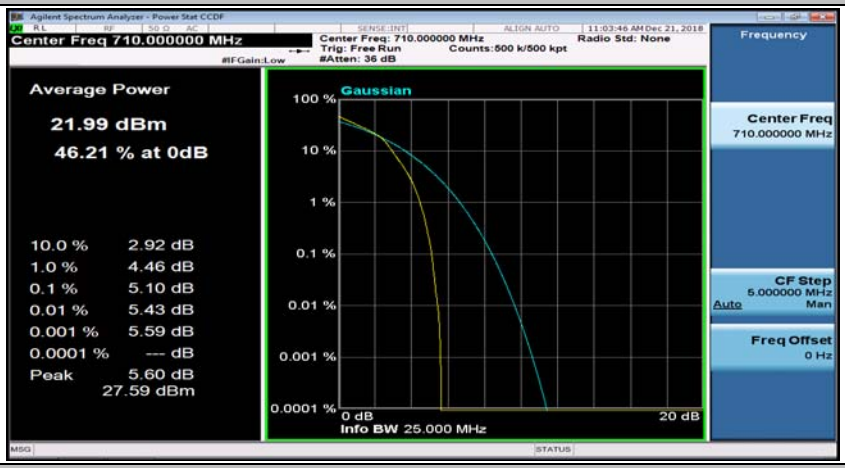
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



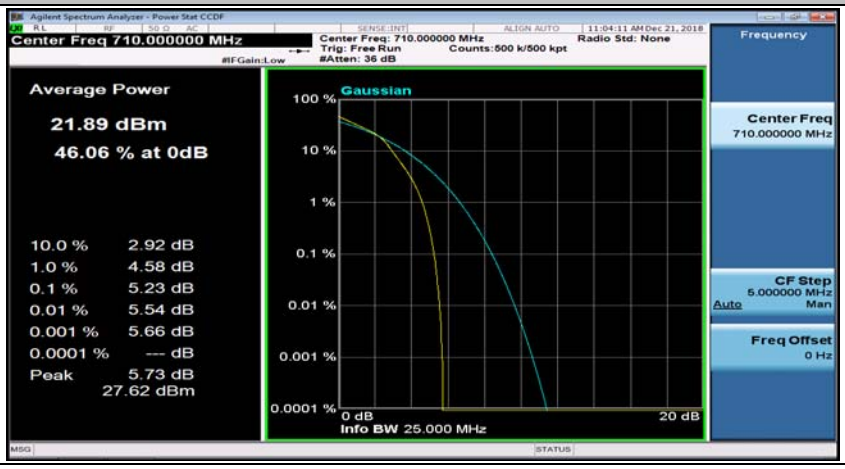
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13

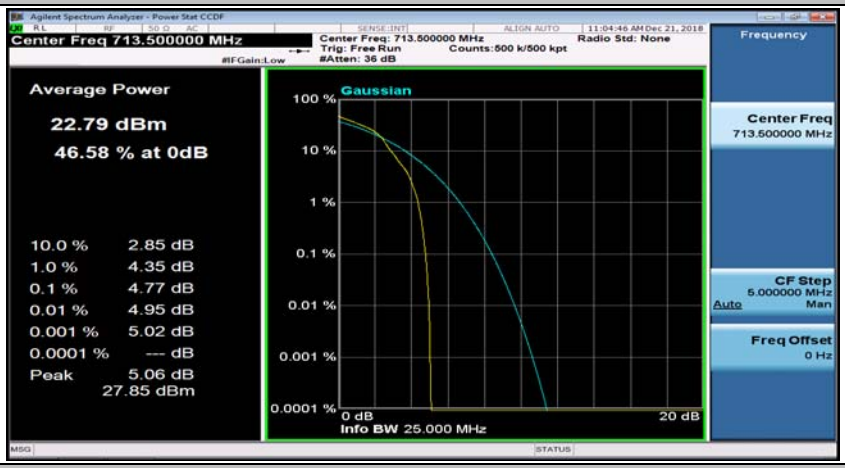
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

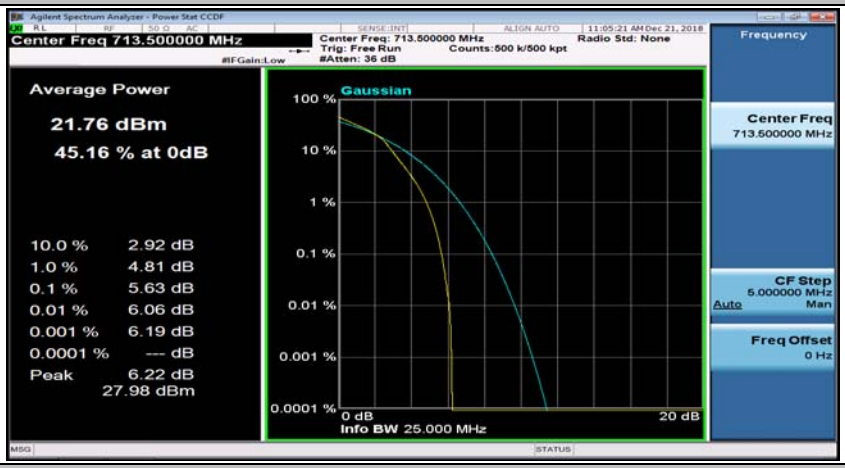
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0

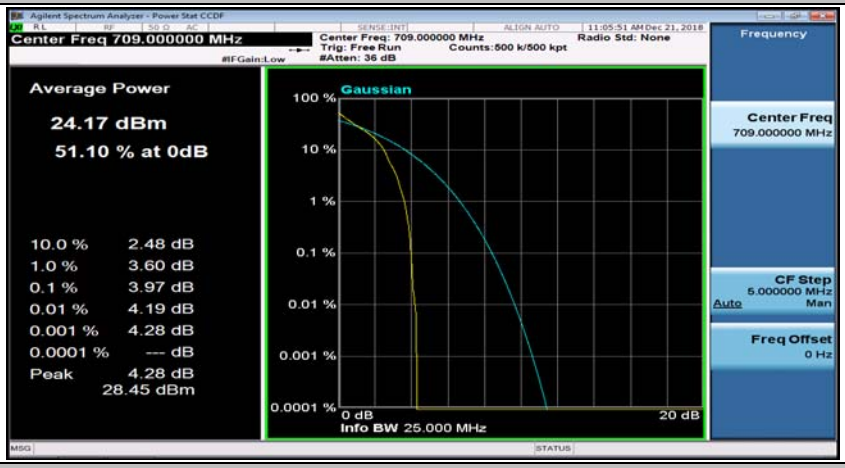
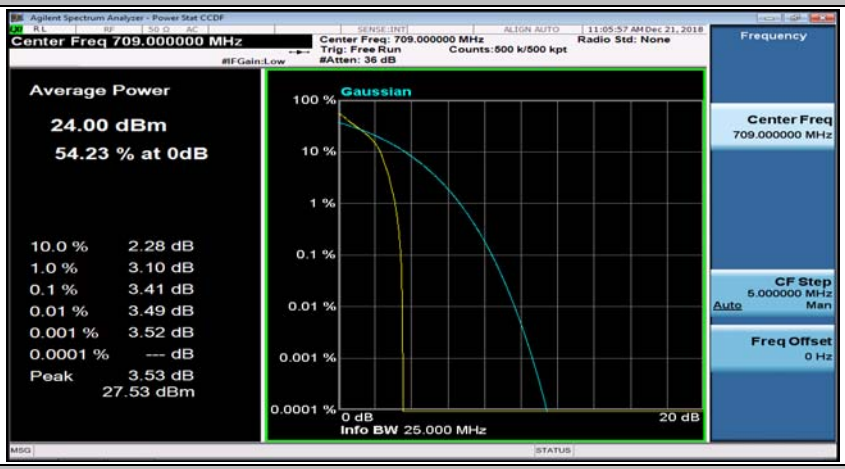
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

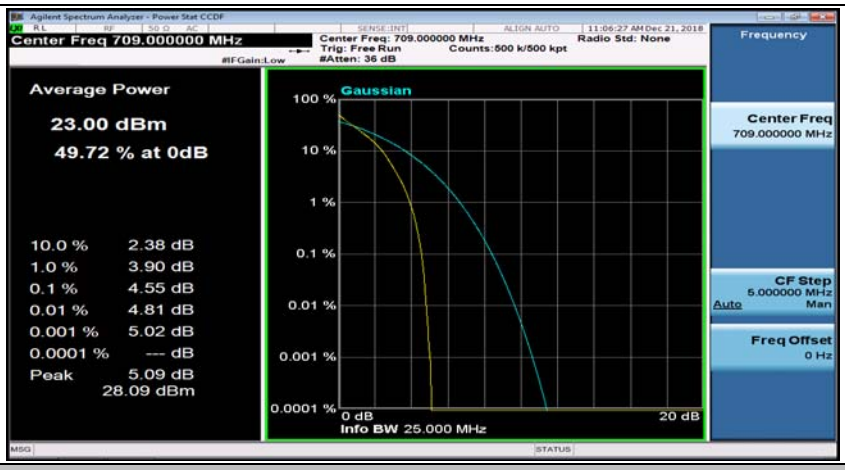


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz

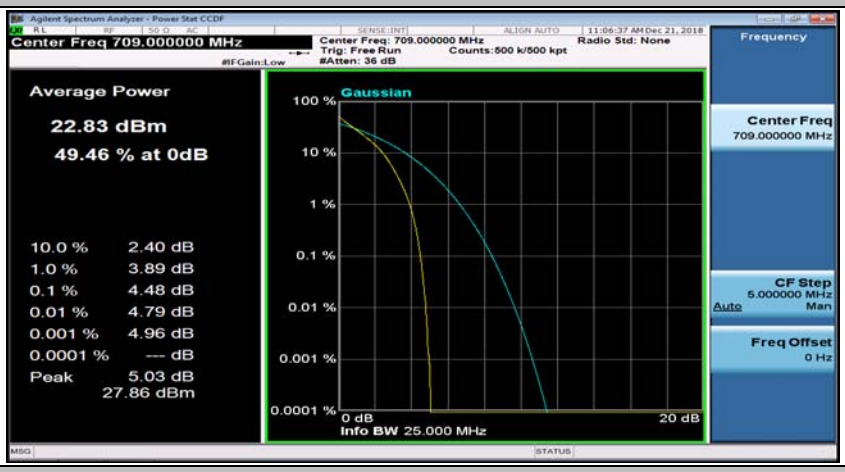
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0

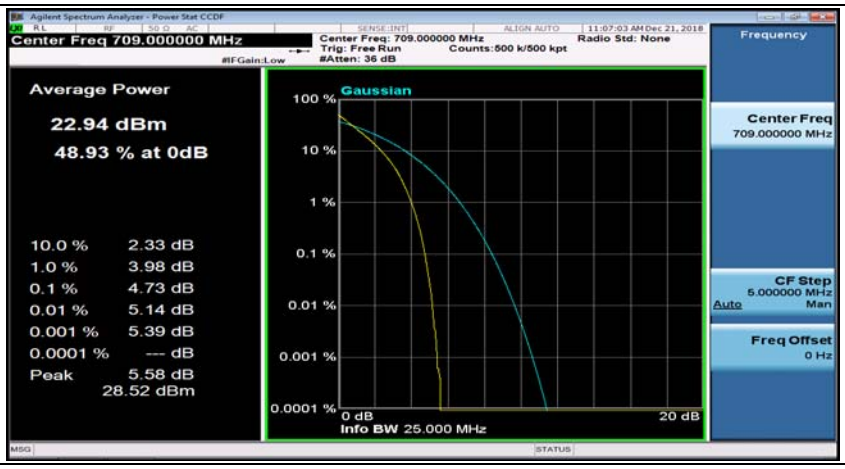


Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12

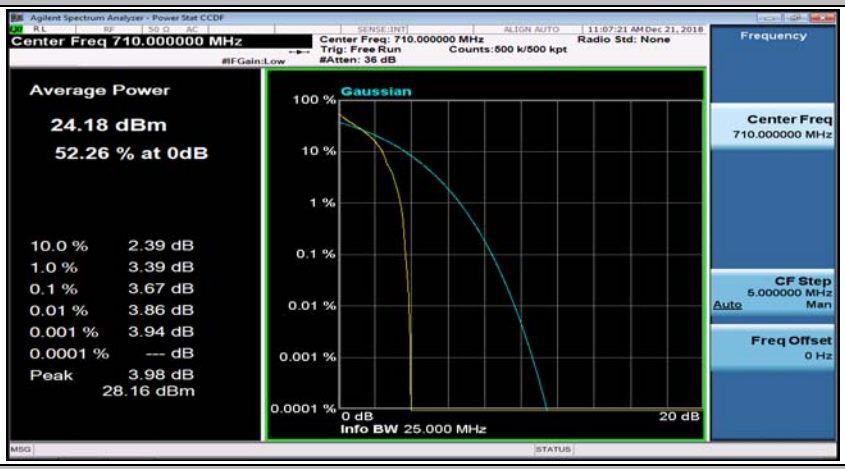
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25



Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

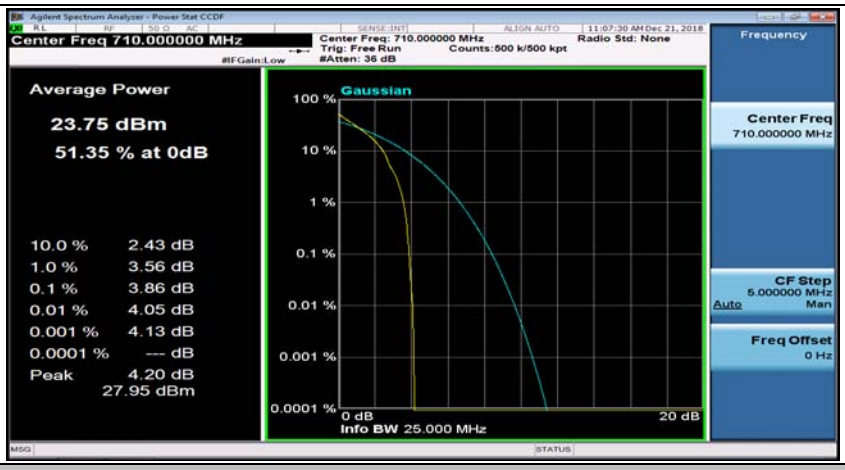


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

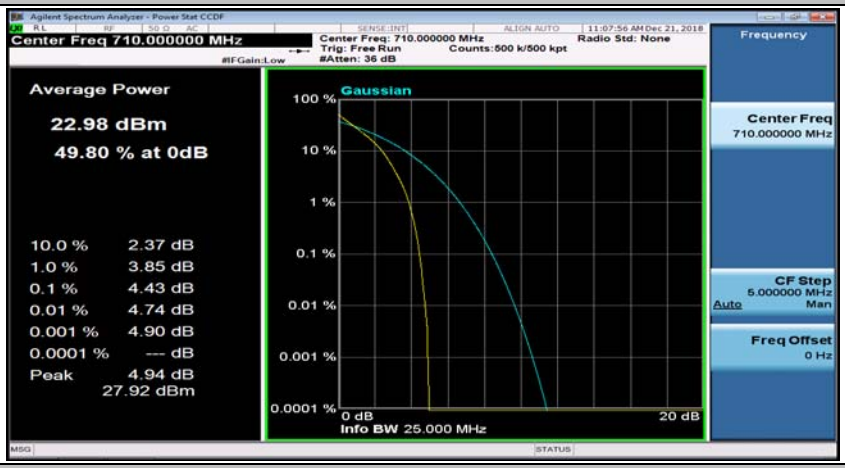


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

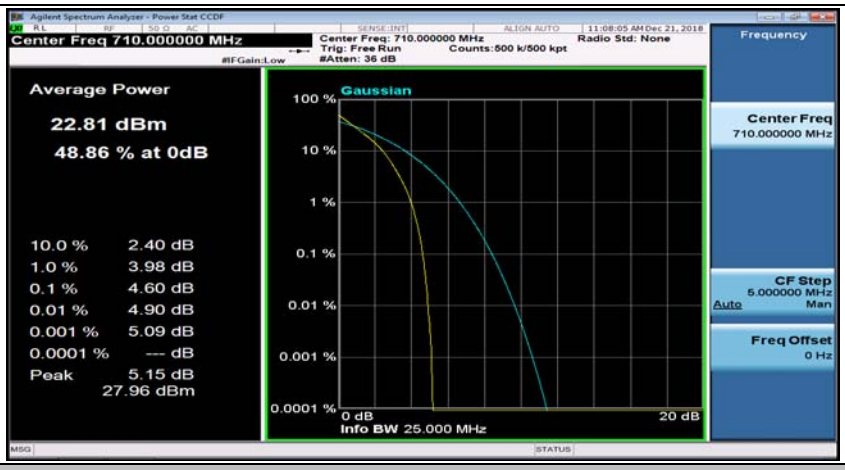


Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0

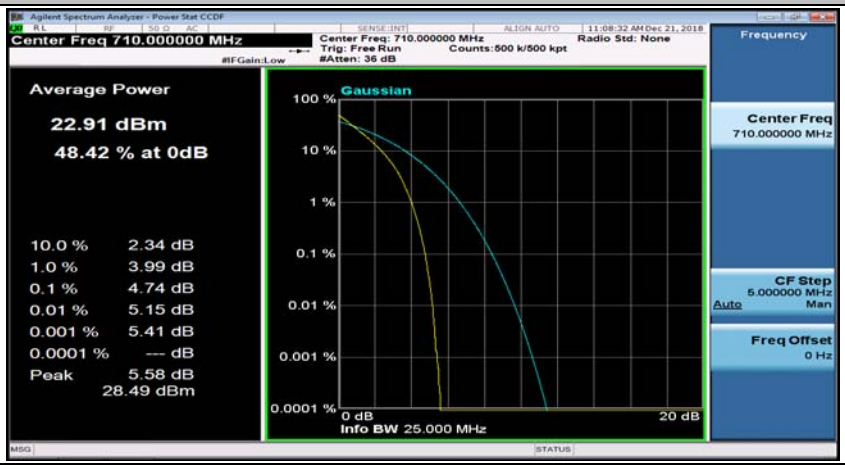


Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25



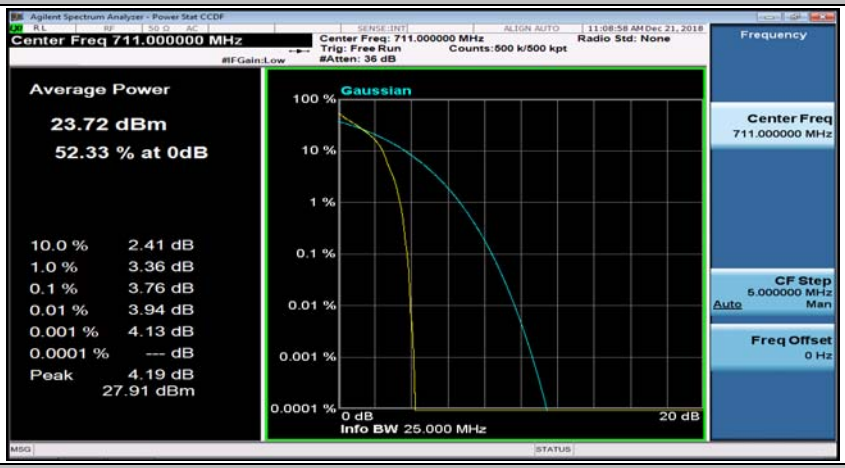
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

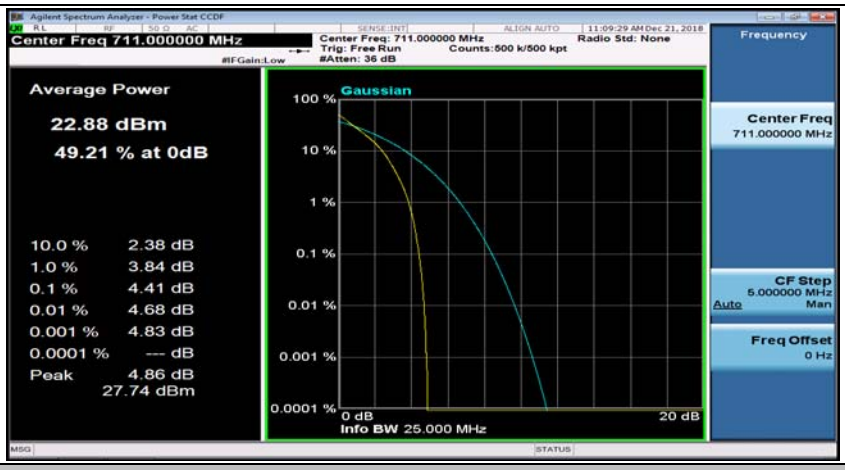
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

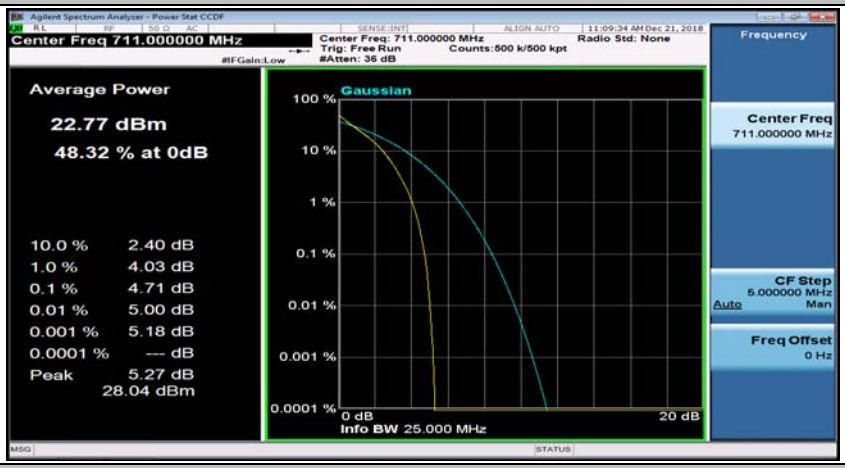


Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12



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

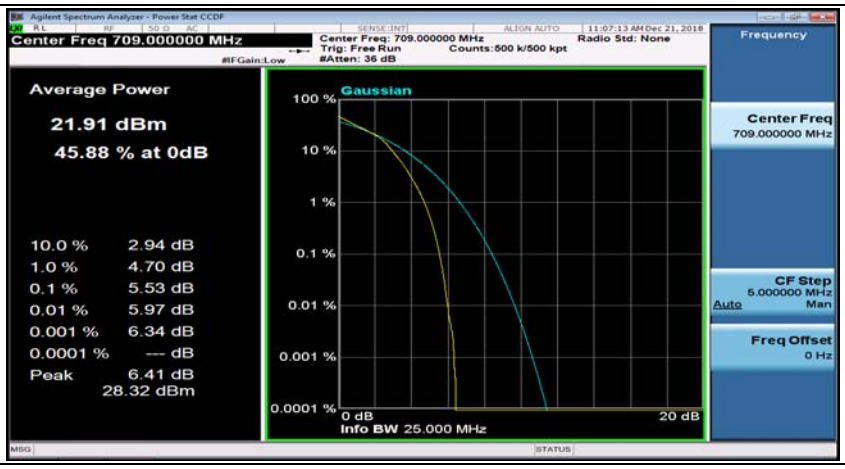
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0

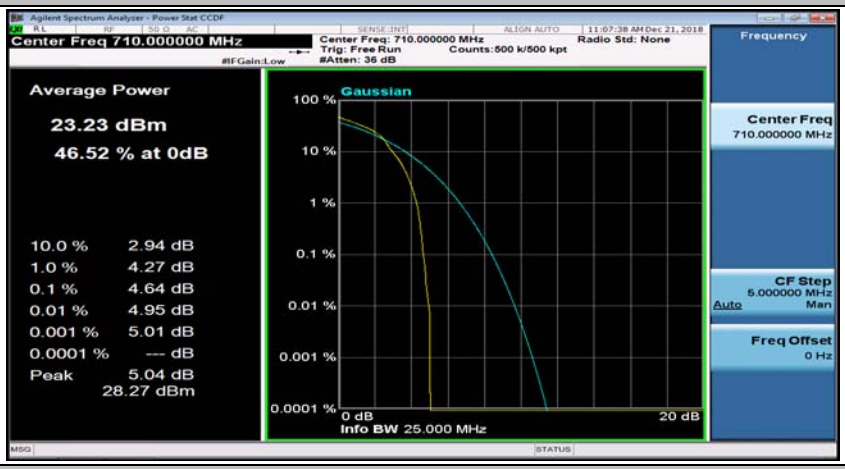
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0



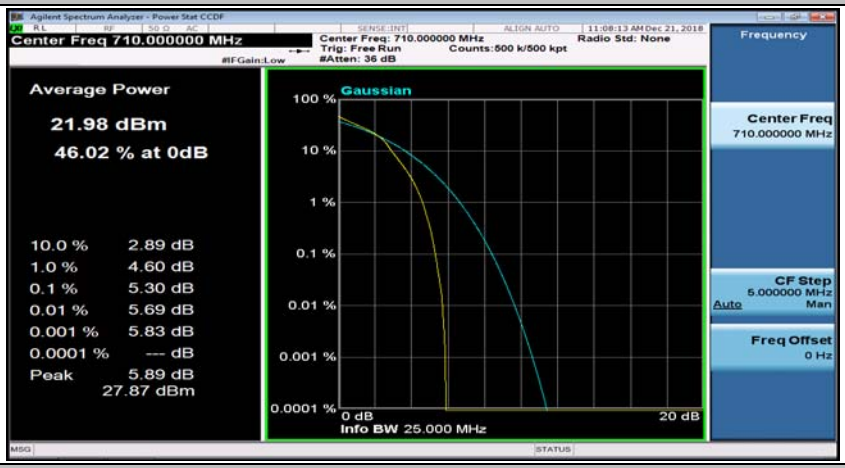
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

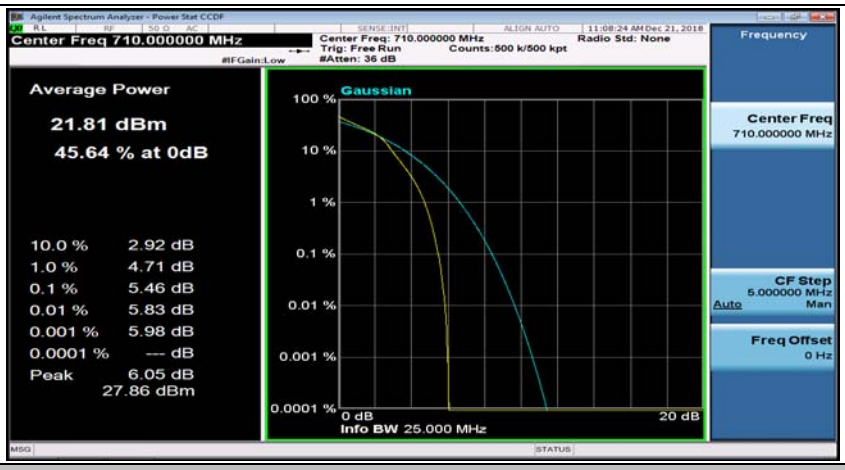
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#0

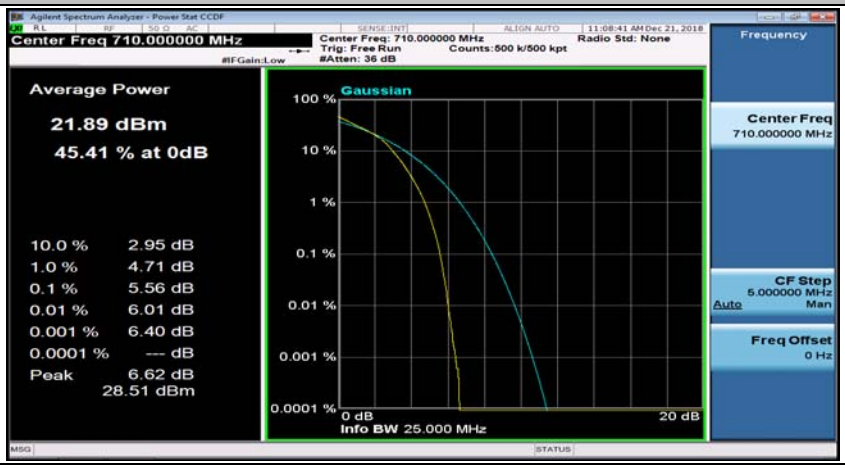


Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25

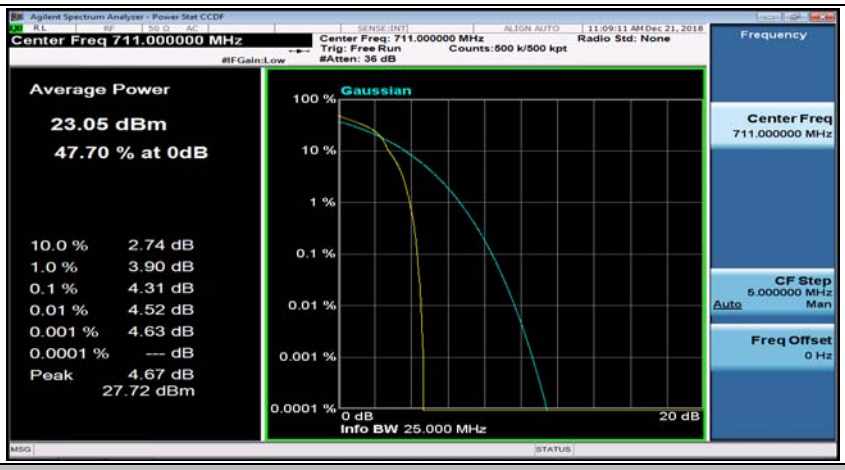


Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

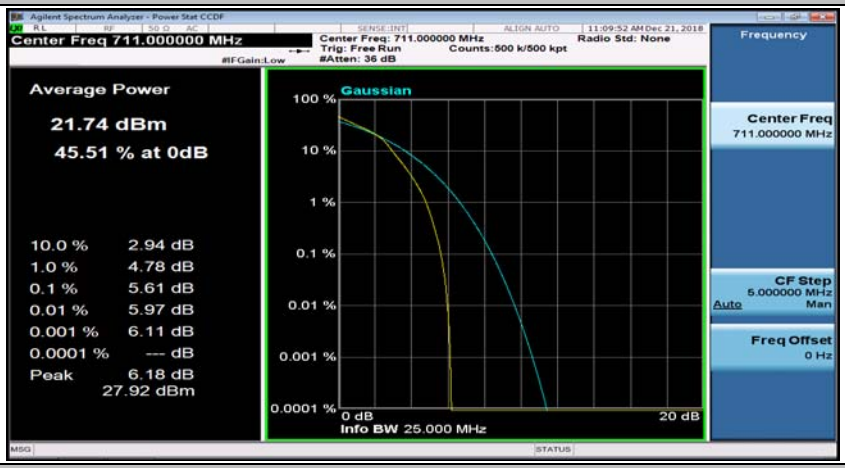


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25



Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

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	4.4769	4.853	PASS
	MCH	25	0	4.4738	4.841	PASS
	HCH	25	0	4.4801	4.846	PASS
16QAM	LCH	25	0	4.4803	4.792	PASS
	MCH	25	0	4.4765	4.884	PASS
	HCH	25	0	4.4900	4.817	PASS

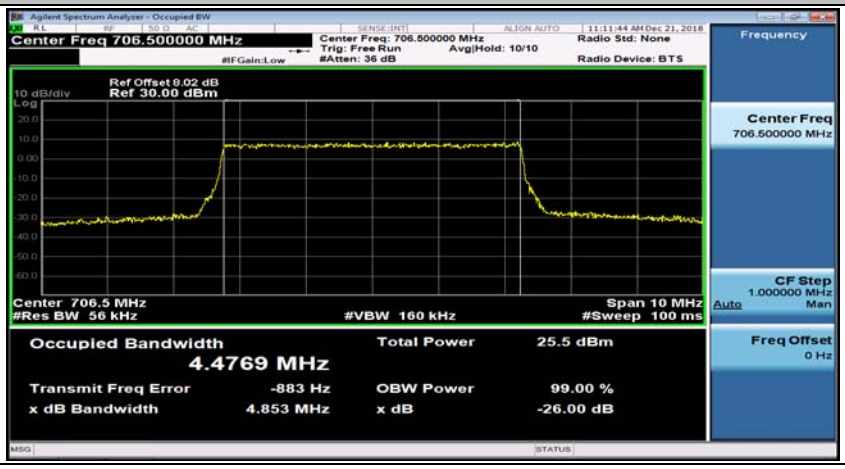
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9361	9.456	PASS
	MCH	50	0	8.9320	9.441	PASS
	HCH	50	0	8.9400	9.474	PASS
16QAM	LCH	50	0	8.9378	9.392	PASS
	MCH	50	0	8.9422	9.380	PASS
	HCH	50	0	8.9280	9.482	PASS

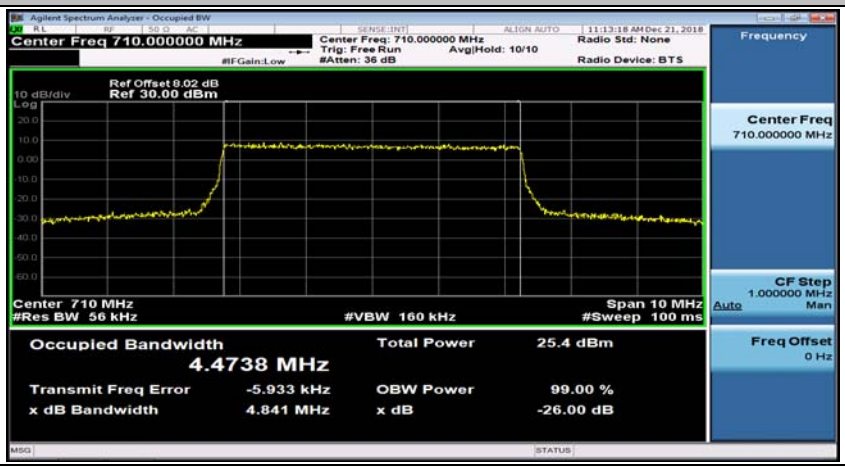
Test Graphs

Channel Bandwidth: 5 MHz

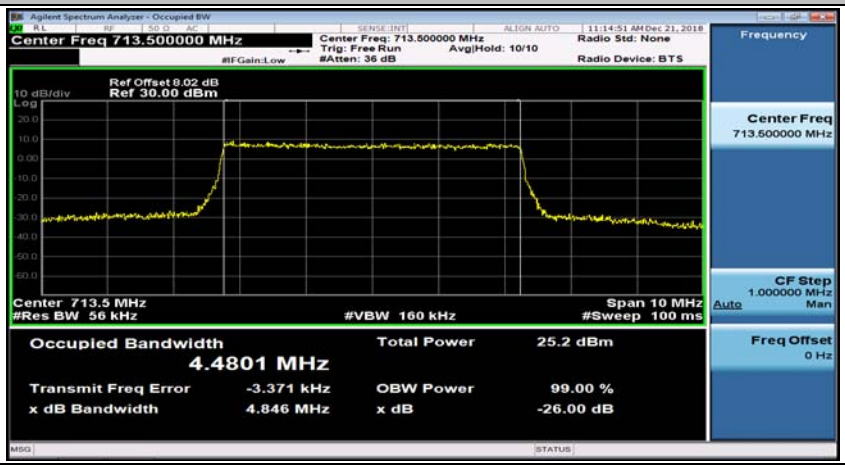
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



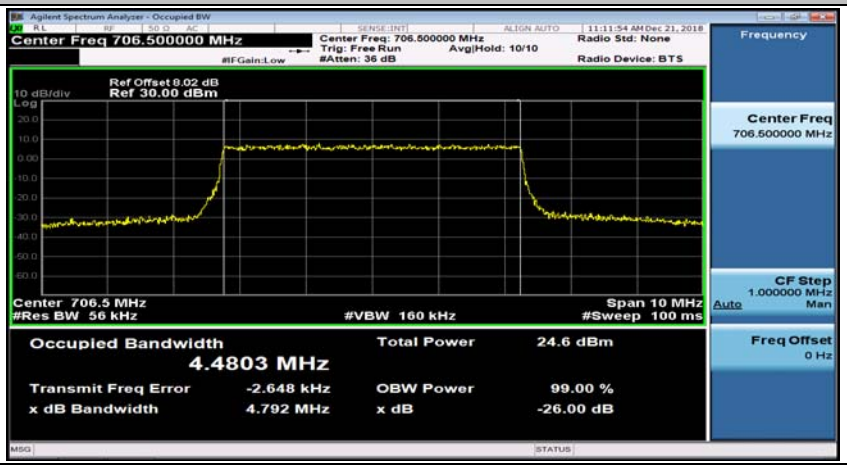
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



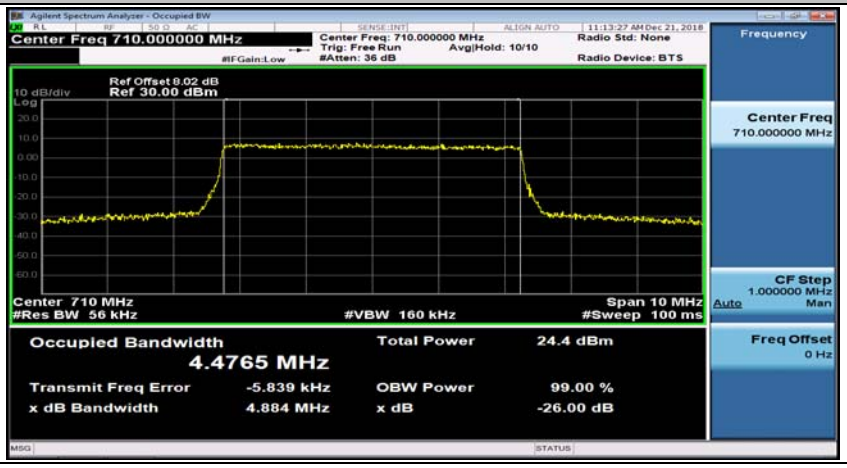
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



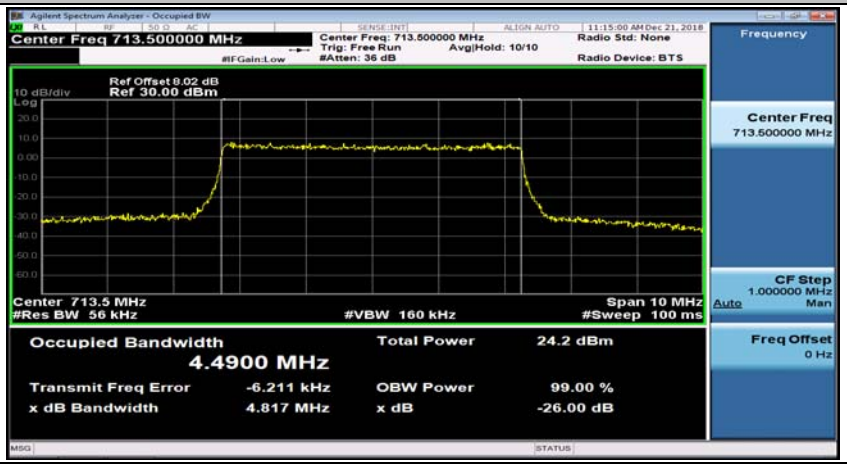
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



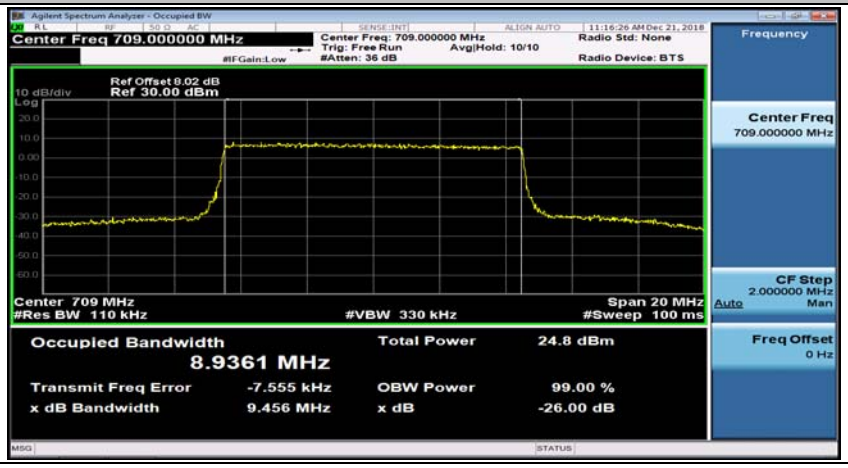
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0

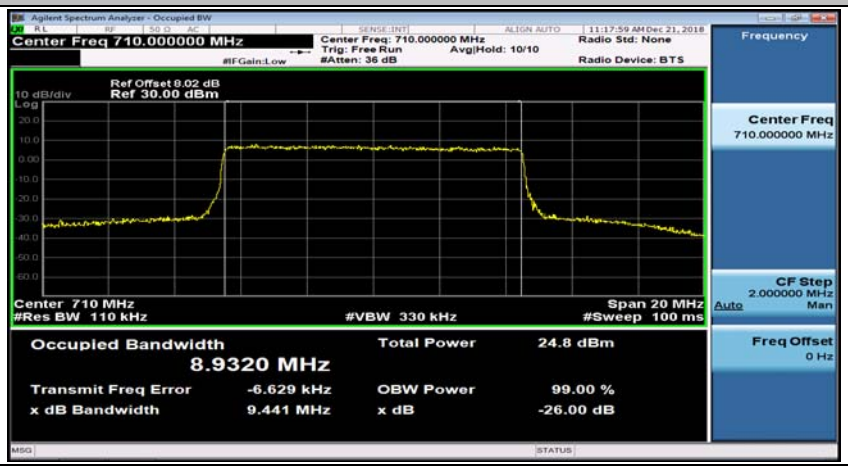


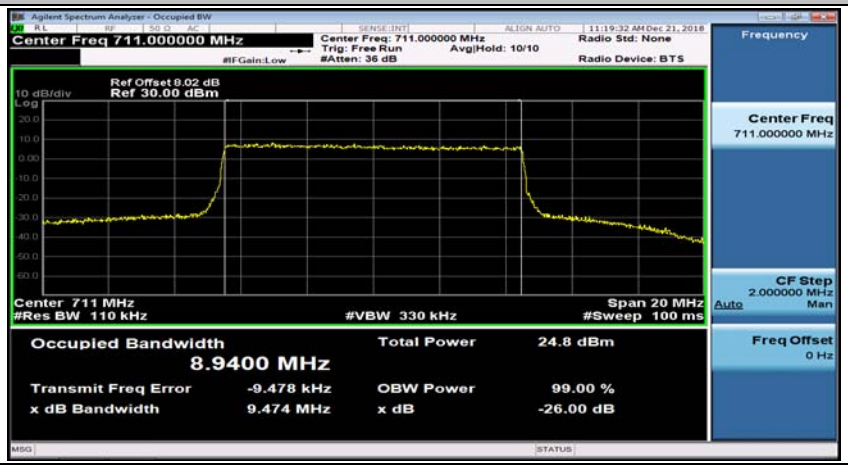
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

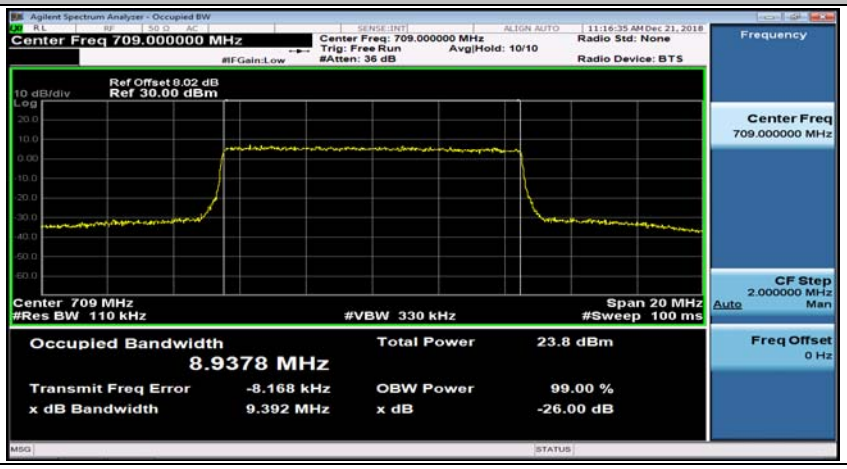


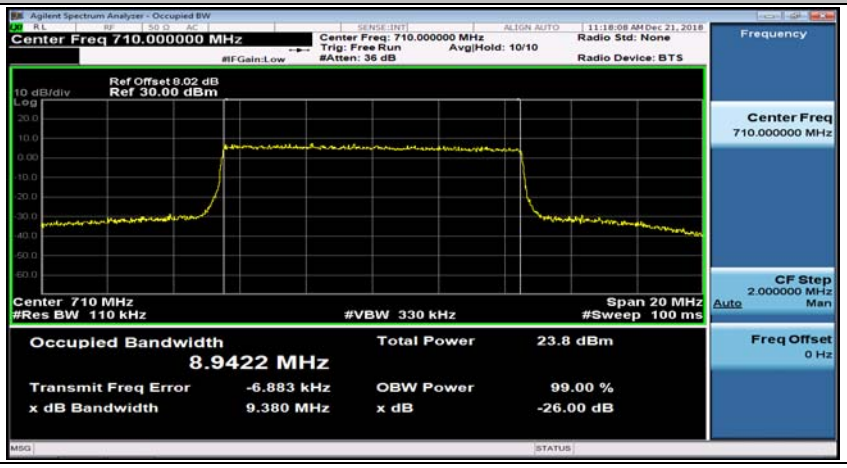
Channel Bandwidth: 10 MHz

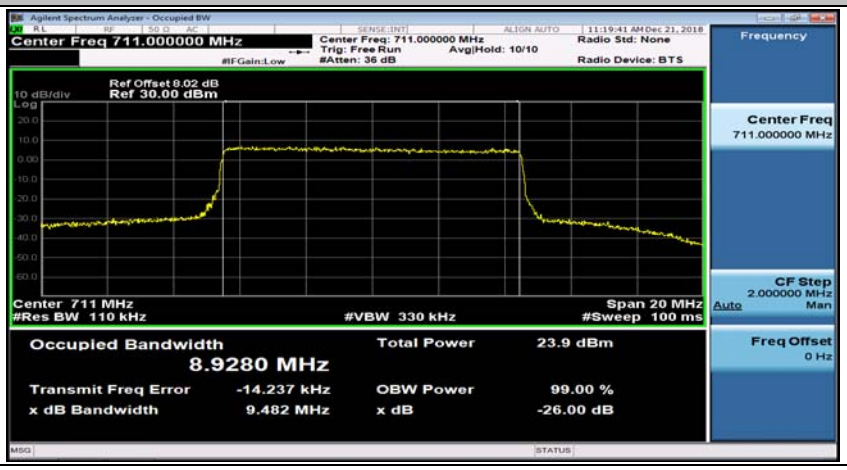
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0


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


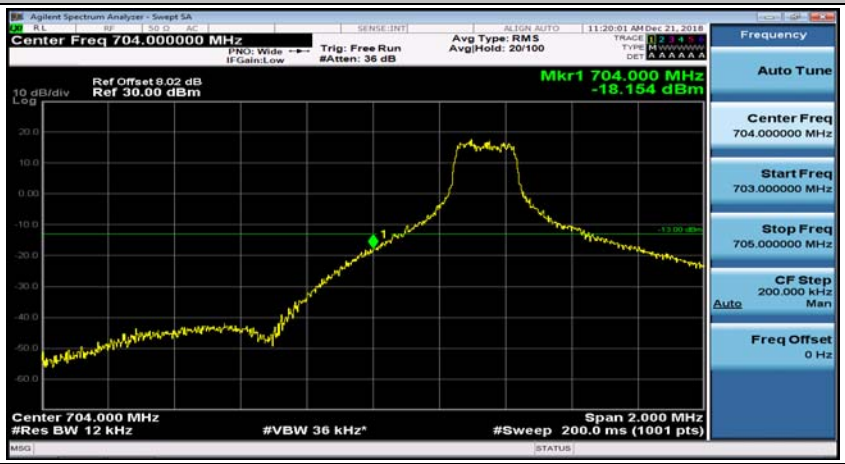
Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0


Appendix D: Band Edge

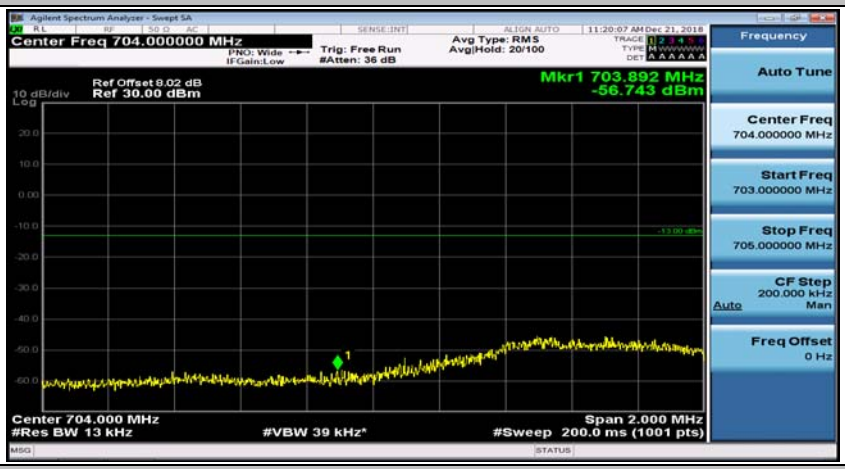
Test Graphs

Channel Bandwidth: 5 MHz

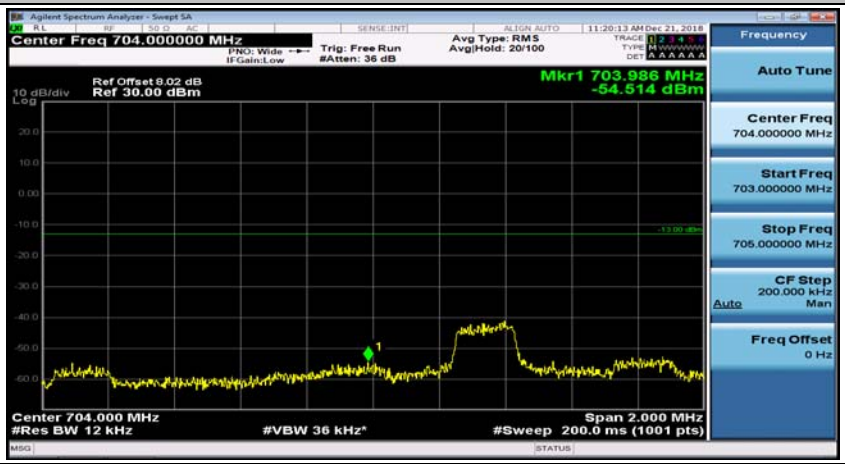
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



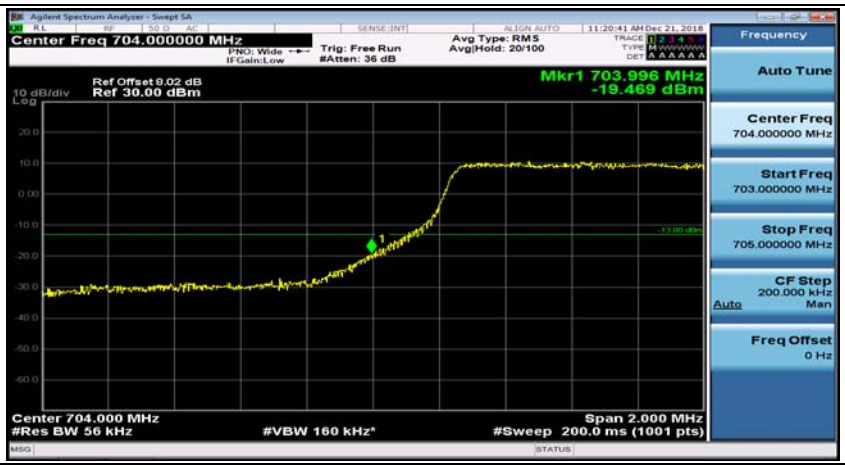
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



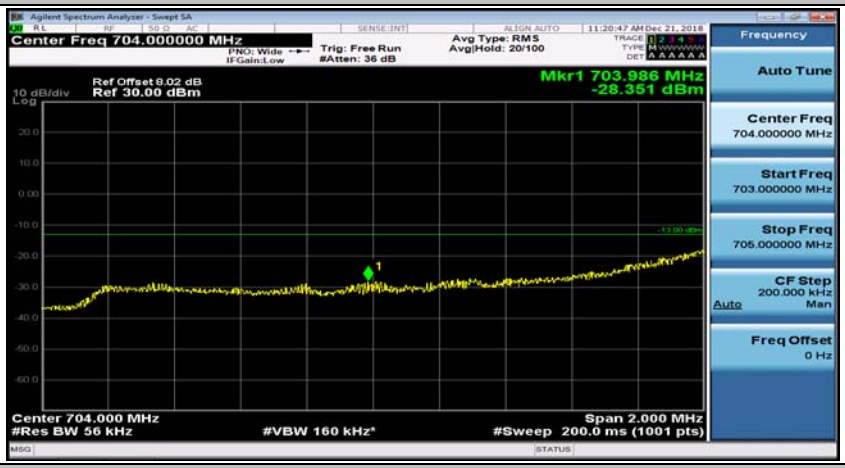
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



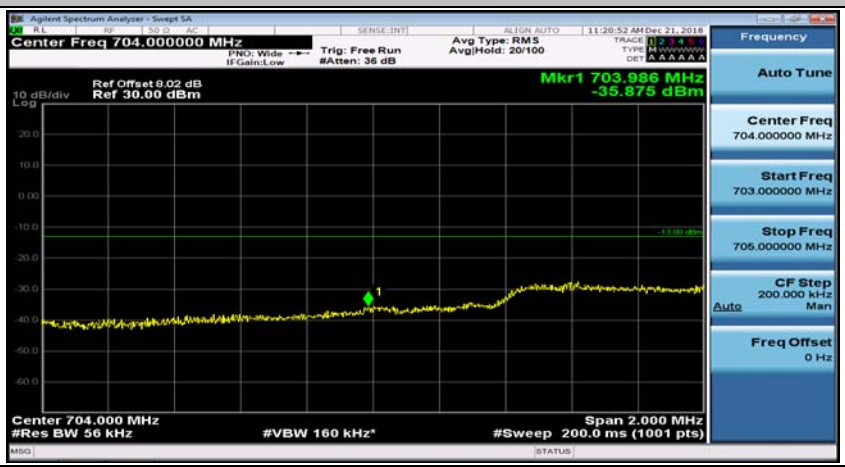
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



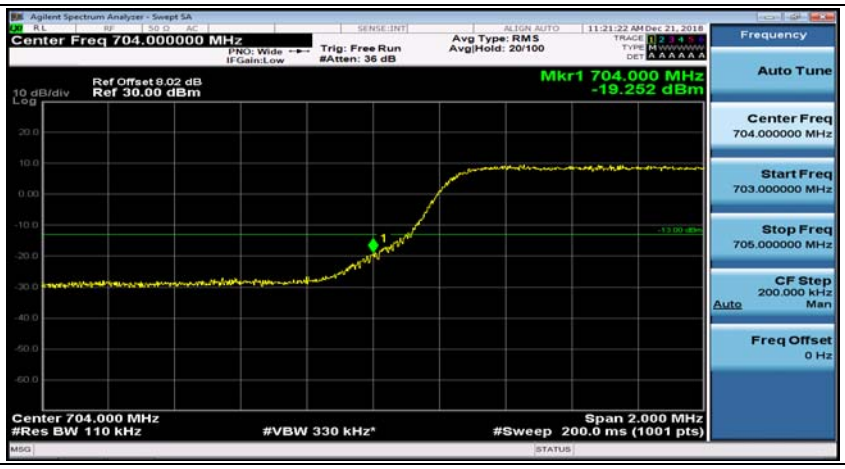
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



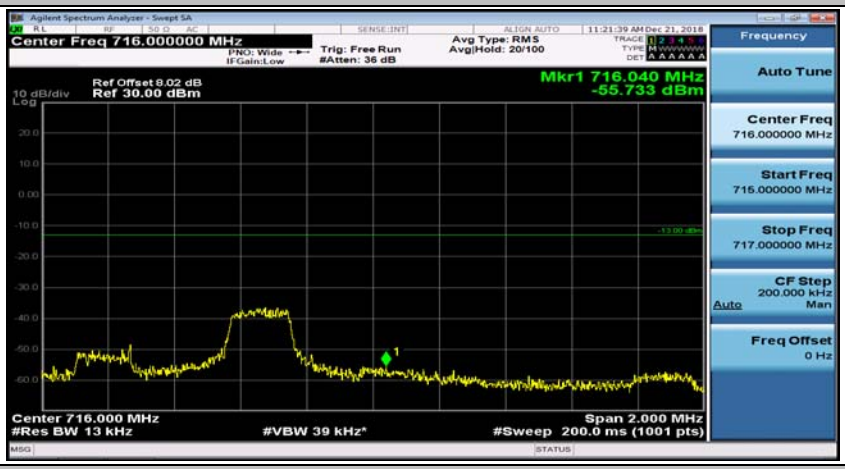
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



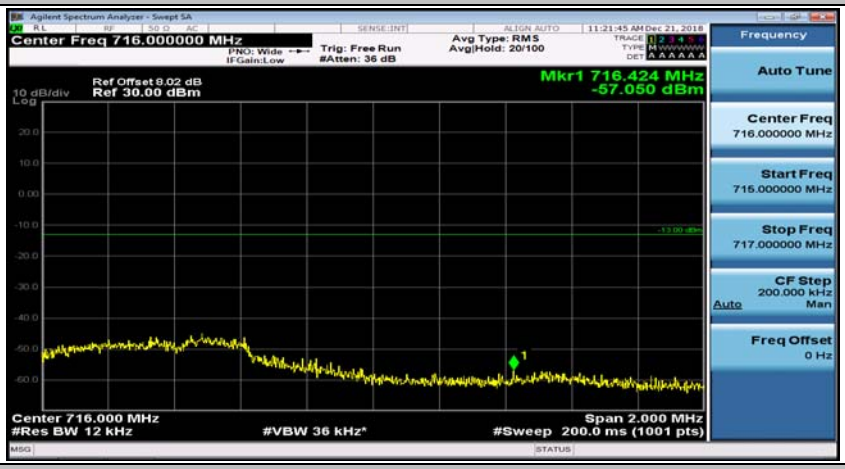
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24