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	21.56	PASS
		1	12	21.79	PASS
		1	24	23.02	PASS
		12	0	21.35	PASS
		12	6	21.74	PASS
		12	13	22.48	PASS
		25	0	22.09	PASS
	MCH	1	0	22.95	PASS
		1	12	22.66	PASS
		1	24	21.59	PASS
		12	0	22.82	PASS
		12	6	22.39	PASS
		12	13	21.67	PASS
		25	0	22.42	PASS
	HCH	1	0	21.81	PASS
		1	12	22.27	PASS
		1	24	23.16	PASS
		12	0	21.63	PASS
		12	6	22.17	PASS
		12	13	22.75	PASS
		25	0	22.39	PASS
16QAM	LCH	1	0	22.01	PASS
		1	12	22.13	PASS
		1	24	23.26	PASS
		12	0	21.45	PASS
		12	6	21.80	PASS
		12	13	22.49	PASS
		25	0	22.12	PASS
	MCH	1	0	23.09	PASS
		1	12	22.89	PASS
		1	24	21.86	PASS
		12	0	22.82	PASS
		12	6	22.46	PASS

		12	13	21.79	PASS
		25	0	22.44	PASS
	HCH	1	0	22.21	PASS
		1	12	22.59	PASS
		1	24	23.36	PASS
		12	0	21.75	PASS
		12	6	22.18	PASS
		12	13	22.77	PASS
		25	0	22.39	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	21.32	PASS
		1	24	22.92	PASS
		1	49	22.31	PASS
		25	0	21.97	PASS
		25	12	22.57	PASS
		25	25	22.79	PASS
		50	0	22.37	PASS
	MCH	1	0	22.41	PASS
		1	24	22.63	PASS
		1	49	20.96	PASS
		25	0	22.62	PASS
		25	12	22.41	PASS
		25	25	21.28	PASS
		50	0	22.24	PASS
	HCH	1	0	23.44	PASS
		1	24	21.51	PASS
		1	49	23.12	PASS
		25	0	22.22	PASS
		25	12	21.47	PASS
		25	25	22.00	PASS
		50	0	22.10	PASS
16QAM	LCH	1	0	21.84	PASS
		1	24	23.22	PASS
		1	49	22.88	PASS
		25	0	22.00	PASS
		25	12	22.57	PASS
		25	25	22.80	PASS
		50	0	22.35	PASS
	MCH	1	0	22.62	PASS

		1	24	22.95	PASS
		1	49	21.51	PASS
		25	0	22.61	PASS
		25	12	22.49	PASS
		25	25	21.37	PASS
		50	0	22.26	PASS
	HCH	1	0	23.89	PASS
		1	24	21.96	PASS
		1	49	23.30	PASS
		25	0	22.35	PASS
		25	12	21.40	PASS
		25	25	22.05	PASS
		50	0	22.19	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	11.9	<13	PASS
		1	12	7.8	<13	PASS
		1	24	9.12	<13	PASS
		12	0	5.26	<13	PASS
		12	6	4.5	<13	PASS
		12	13	3.8	<13	PASS
		25	0	4.71	<13	PASS
	MCH	1	0	4.92	<13	PASS
		1	12	6.19	<13	PASS
		1	24	7.28	<13	PASS
		12	0	5.61	<13	PASS
		12	6	5.78	<13	PASS
		12	13	5.82	<13	PASS
		25	0	5.49	<13	PASS
	HCH	1	0	11.31	<13	PASS
		1	12	4.73	<13	PASS
		1	24	3.62	<13	PASS
		12	0	5.68	<13	PASS
		12	6	4.86	<13	PASS
		12	13	4.15	<13	PASS
		25	0	5.12	<13	PASS
16QAM	LCH	1	0	6.05	<13	PASS
		1	12	4.63	<13	PASS
		1	24	3.26	<13	PASS
		12	0	5.52	<13	PASS
		12	6	4.74	<13	PASS
		12	13	3.94	<13	PASS
		25	0	4.98	<13	PASS
	MCH	1	0	6.99	<13	PASS
		1	12	7.25	<13	PASS
		1	24	7.6	<13	PASS
		12	0	4.97	<13	PASS
		12	6	5.93	<13	PASS

		12	13	6.71	<13	PASS
		25	0	5.99	<13	PASS
	HCH	1	0	6.43	<13	PASS
		1	12	4.97	<13	PASS
		1	24	3.85	<13	PASS
		12	0	6.2	<13	PASS
		12	6	5.32	<13	PASS
		12	13	4.48	<13	PASS
		25	0	5.45	<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	5.61	<13	PASS
		1	24	3.17	<13	PASS
		1	49	6.13	<13	PASS
		25	0	4.4	<13	PASS
		25	12	3.9	<13	PASS
		25	25	4.63	<13	PASS
		50	0	4.6	<13	PASS
	MCH	1	0	3.52	<13	PASS
		1	24	5.58	<13	PASS
		1	49	5.67	<13	PASS
		25	0	4.37	<13	PASS
		25	12	5.39	<13	PASS
		25	25	6.12	<13	PASS
		50	0	5.34	<13	PASS
	HCH	1	0	4.44	<13	PASS
		1	24	6.27	<13	PASS
		1	49	3.89	<13	PASS
		25	0	5.97	<13	PASS
		25	12	6.2	<13	PASS
		25	25	5.31	<13	PASS
		50	0	5.94	<13	PASS
16QAM	LCH	1	0	5.94	<13	PASS
		1	24	3.4	<13	PASS
		1	49	6.8	<13	PASS
		25	0	4.67	<13	PASS
		25	12	4.15	<13	PASS
		25	25	4.97	<13	PASS

		50	0	5.11	<13	PASS
	MCH	1	0	3.76	<13	PASS
		1	24	5.9	<13	PASS
		1	49	6.65	<13	PASS
		25	0	4.68	<13	PASS
		25	12	5.76	<13	PASS
		25	25	6.81	<13	PASS
		50	0	5.76	<13	PASS
	HCH	1	0	4.54	<13	PASS
		1	24	7.11	<13	PASS
		1	49	4.12	<13	PASS
		25	0	6.55	<13	PASS
		25	12	6.78	<13	PASS
		25	25	5.72	<13	PASS
		50	0	6.28	<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

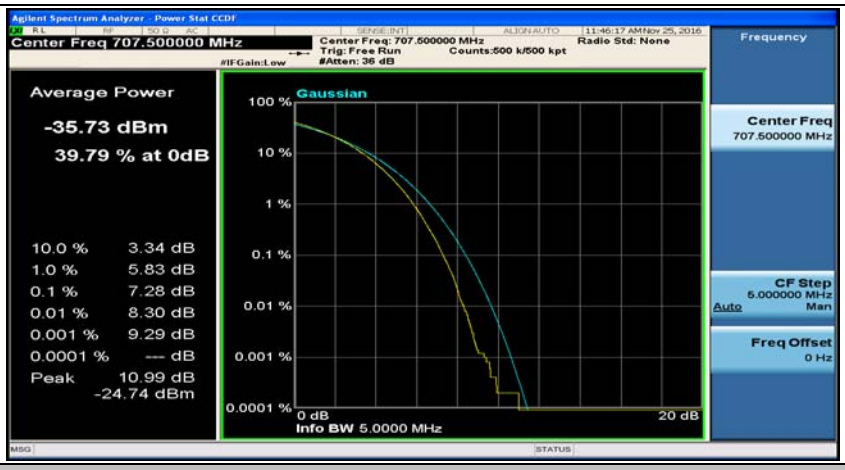
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

(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

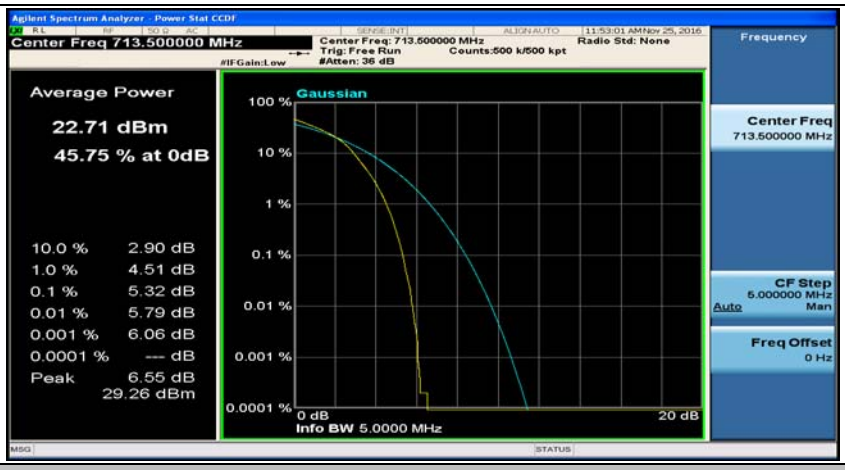
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

(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

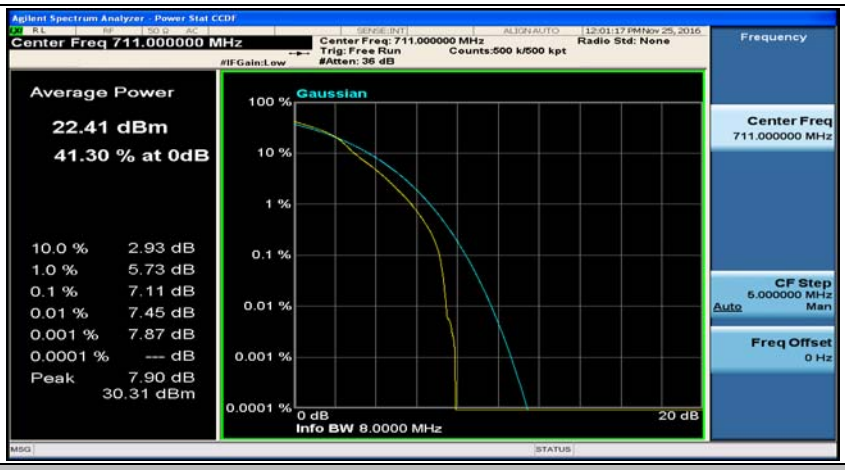
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12

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	4.4760	4.923	PASS
	MCH	25	0	4.4775	4.829	PASS
	HCH	25	0	4.4703	4.594	PASS
16QAM	LCH	25	0	4.4915	5.557	PASS
	MCH	25	0	4.4828	4.851	PASS
	HCH	25	0	4.4758	4.835	PASS

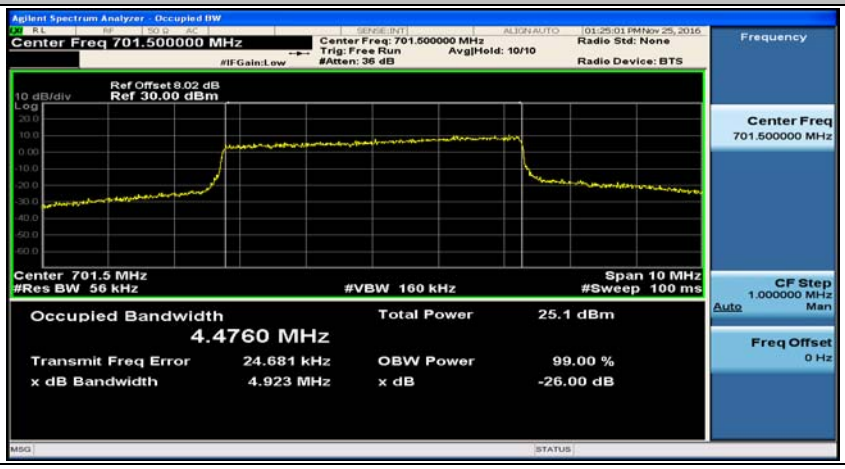
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.8565	9.360	PASS
	MCH	50	0	9.0005	9.639	PASS
	HCH	50	0	9.0005	9.639	PASS
16QAM	LCH	50	0	8.8809	9.414	PASS
	MCH	50	0	8.9251	9.415	PASS
	HCH	50	0	8.9999	9.724	PASS

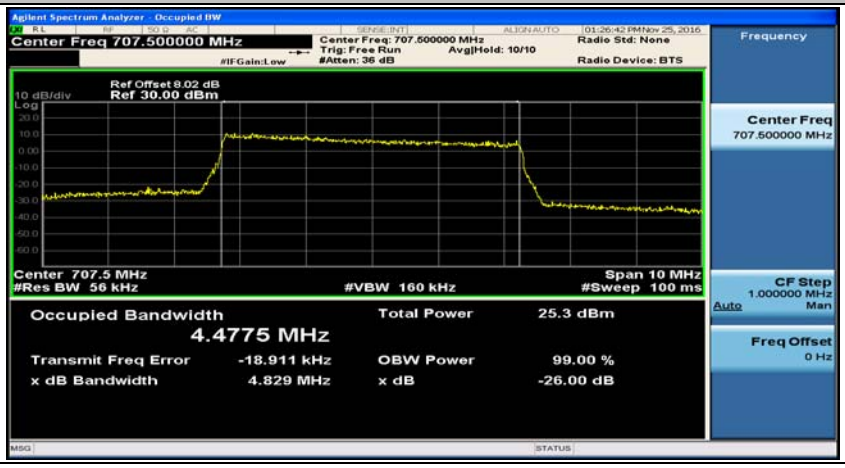
Test Graphs

Channel Bandwidth: 5 MHz

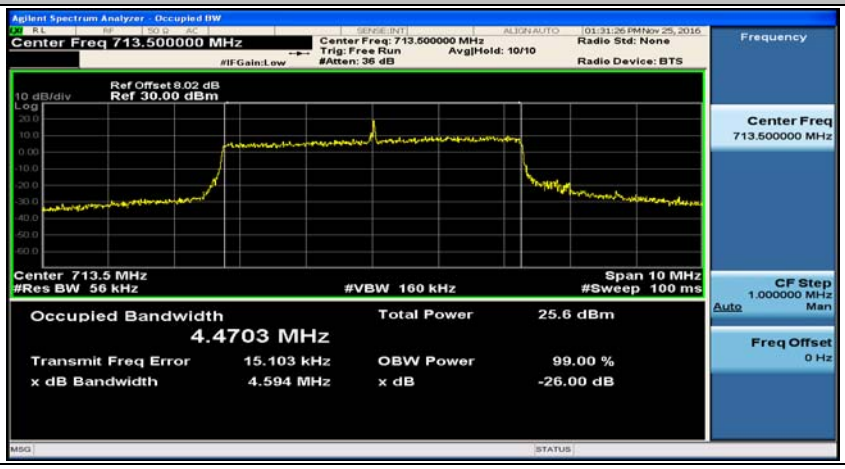
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

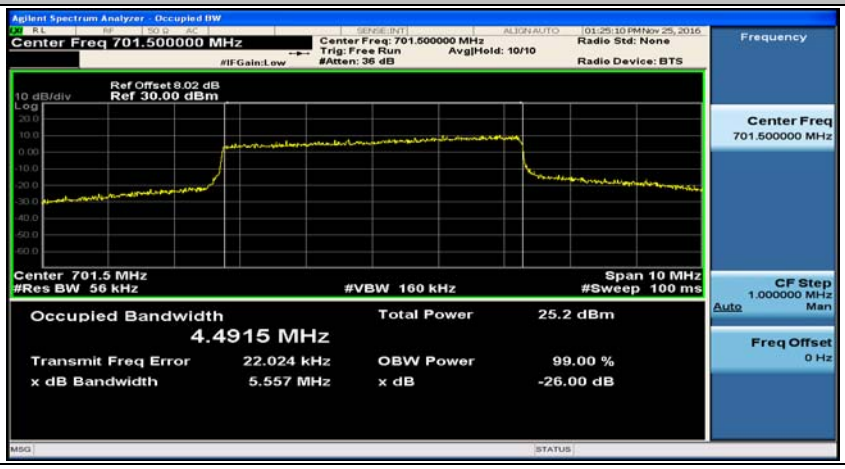


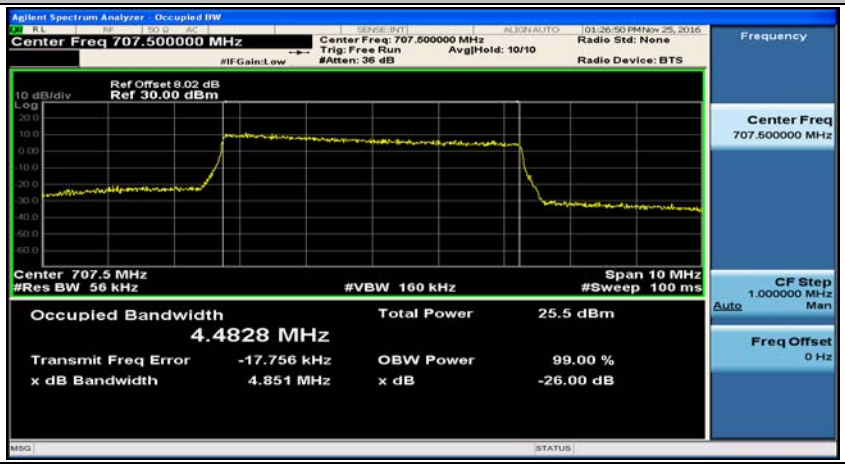
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

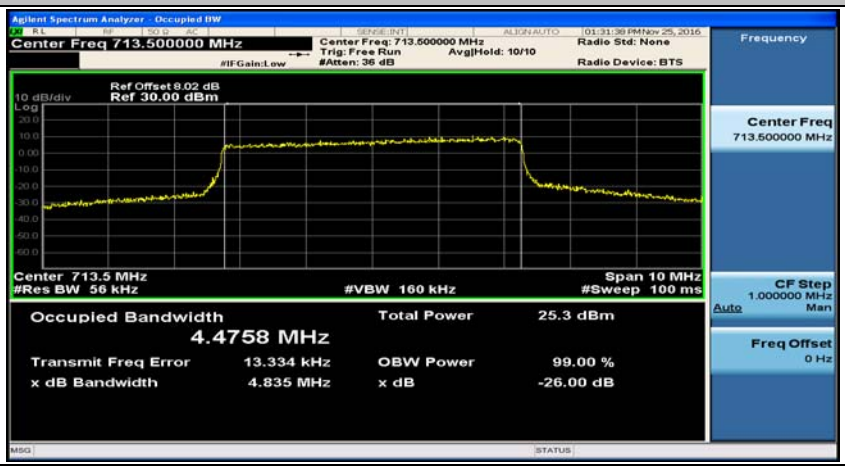


(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

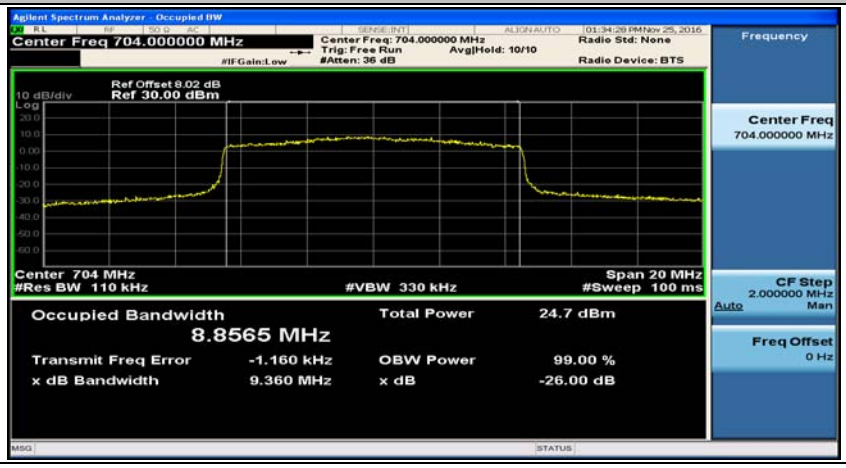


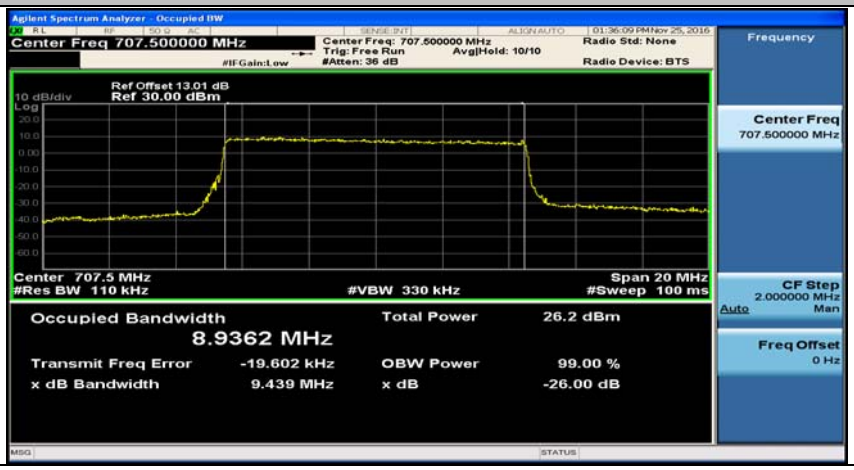
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0


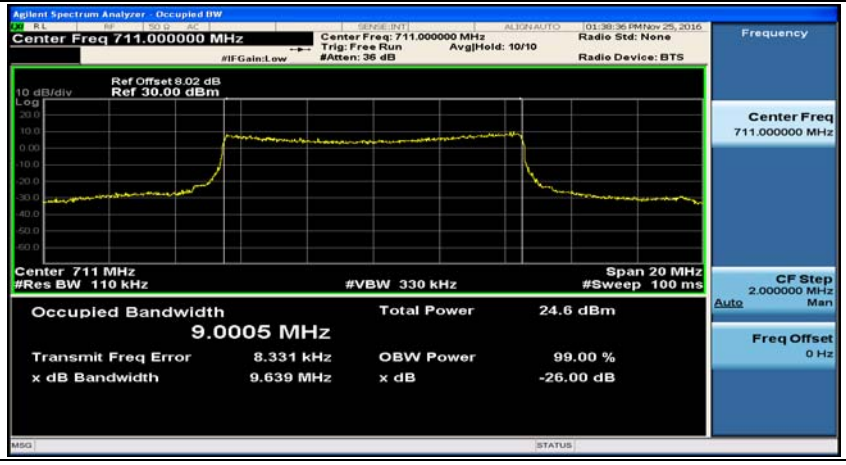
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0


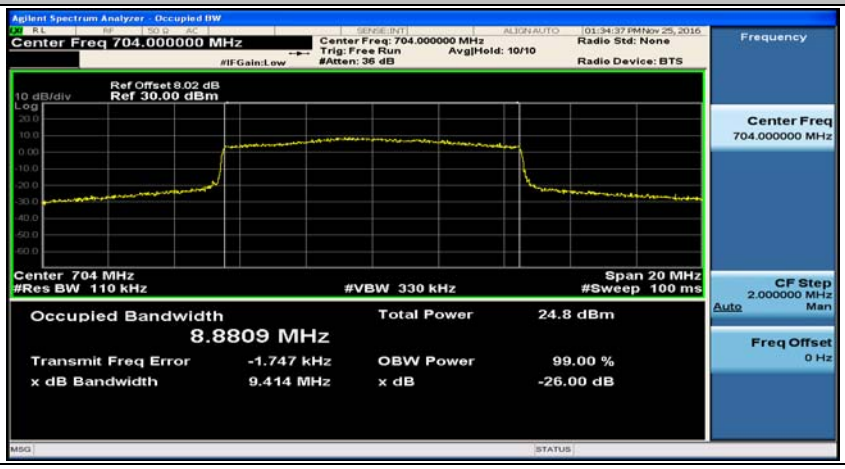
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0


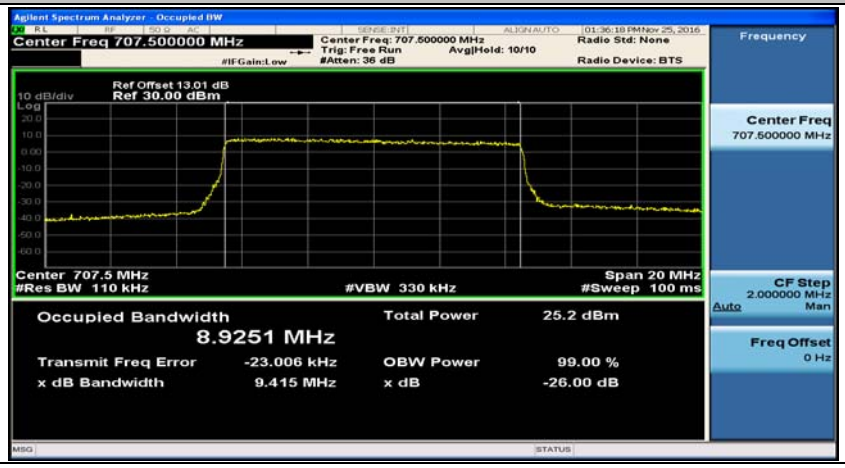
Channel Bandwidth: 10 MHz

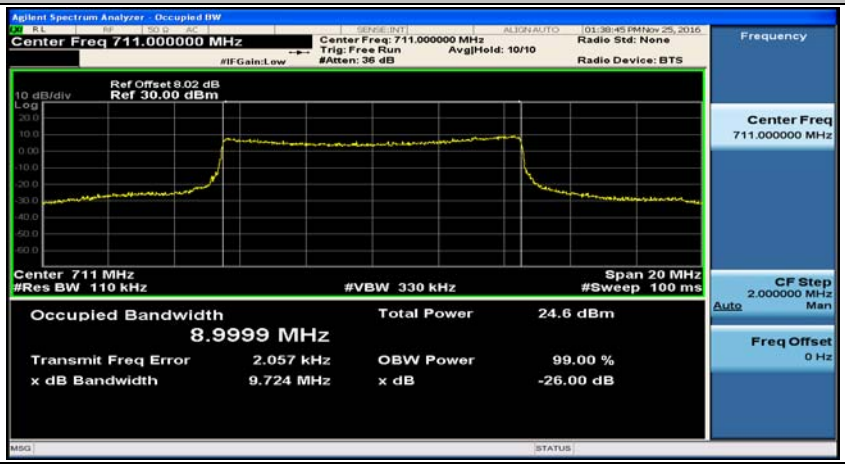
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0


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


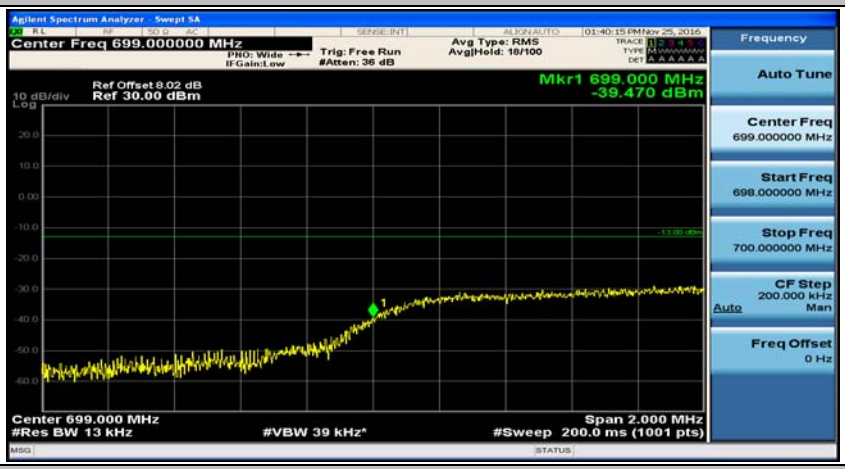
Appendix D: Band Edge

Test Graphs

Channel Bandwidth: 5 MHz

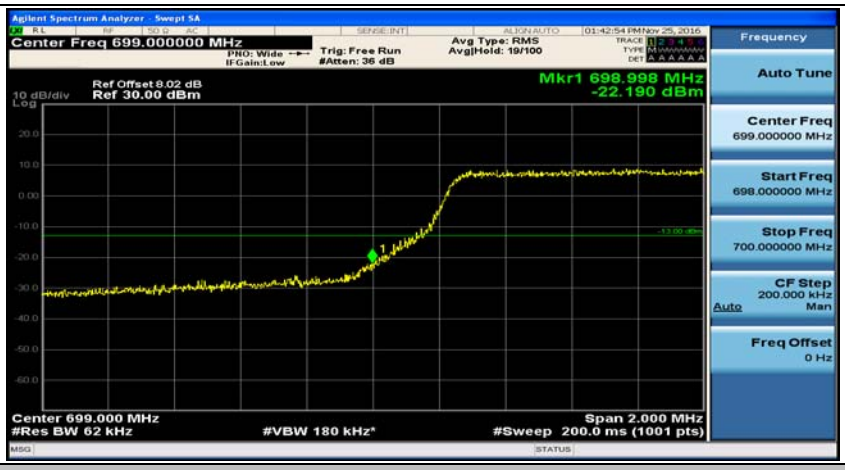
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

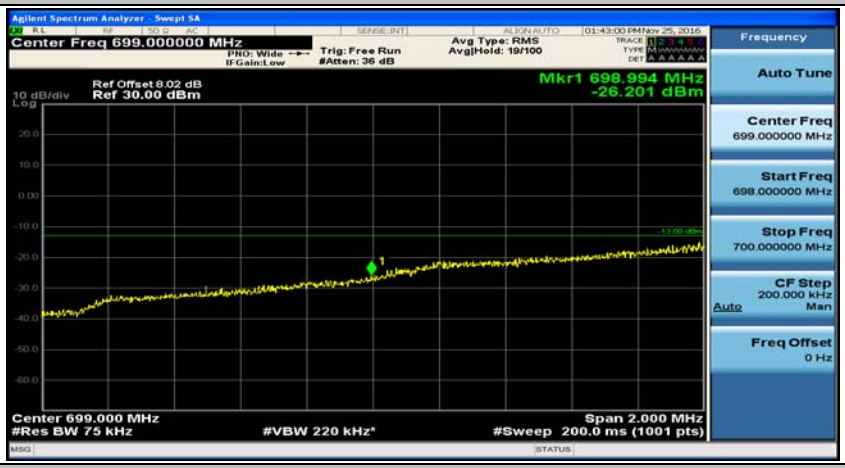


(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

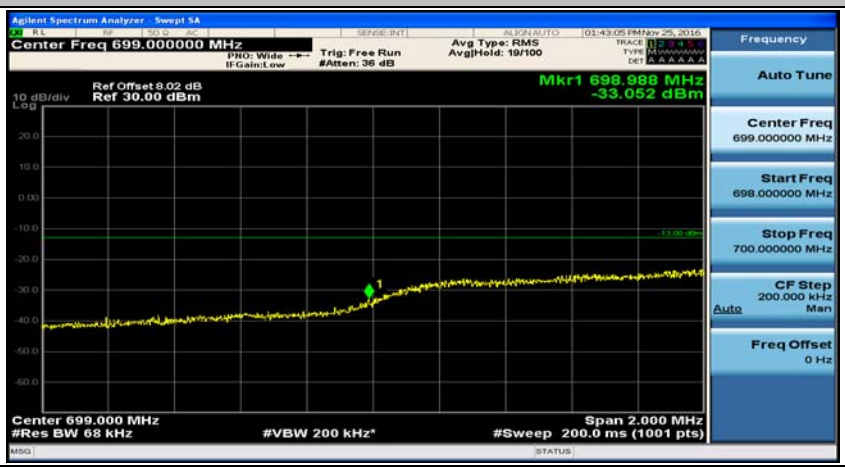
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



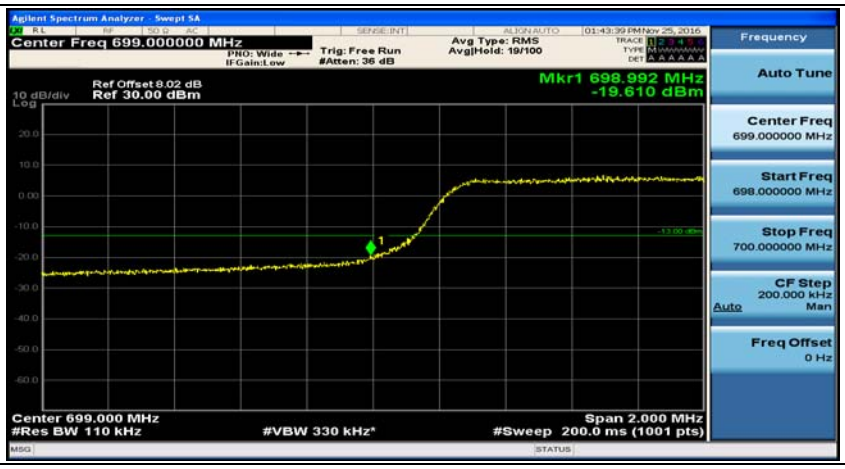
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

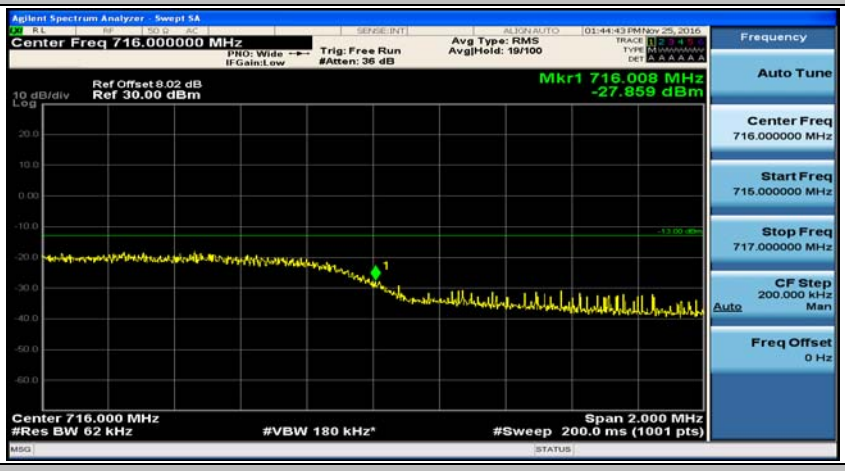


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



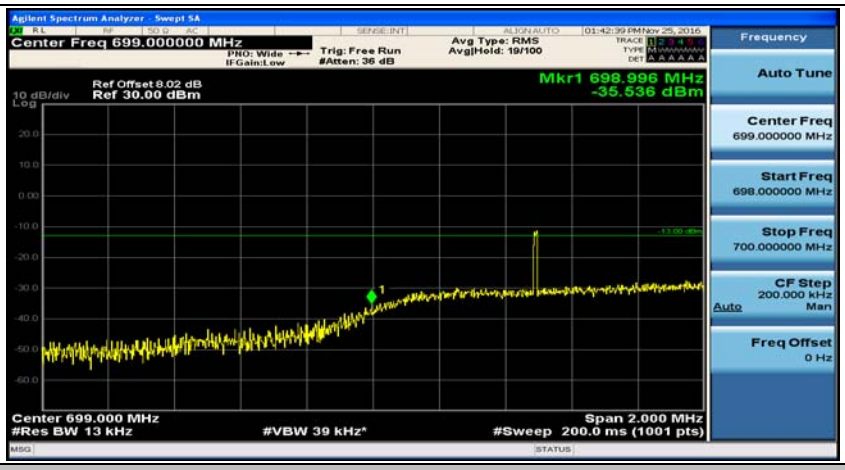
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

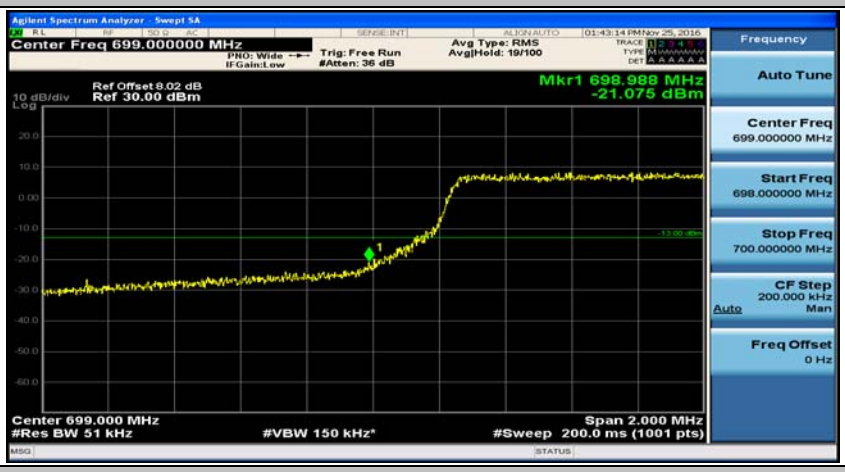
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

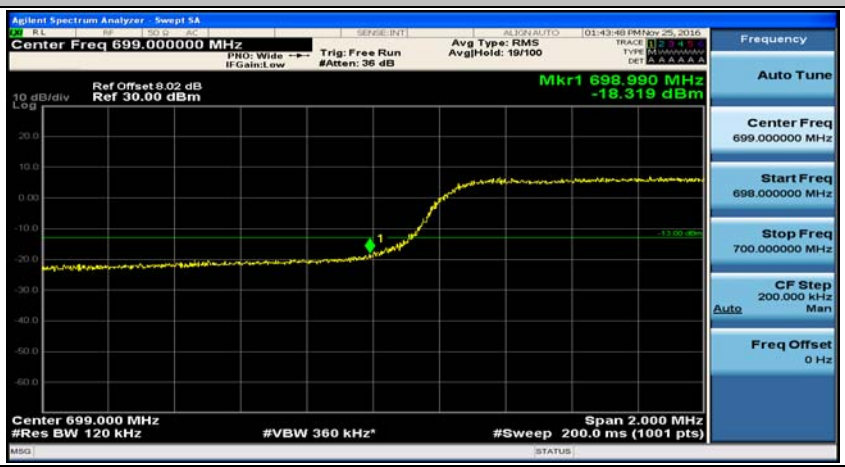
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



(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)_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

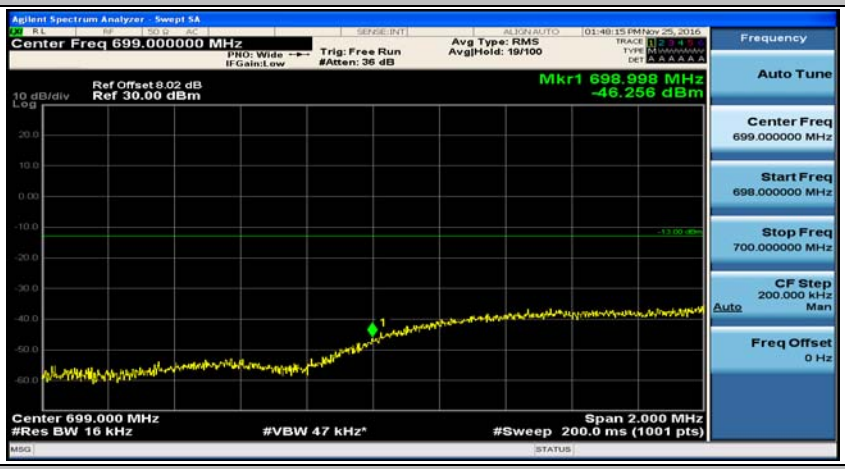
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

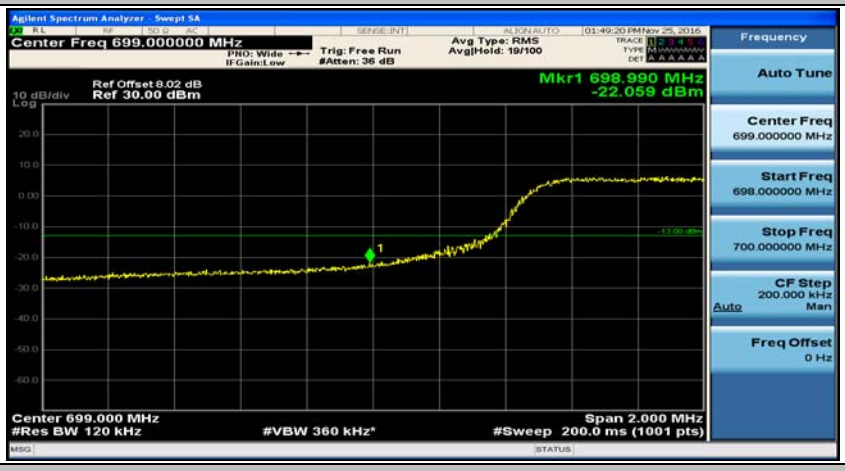
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz

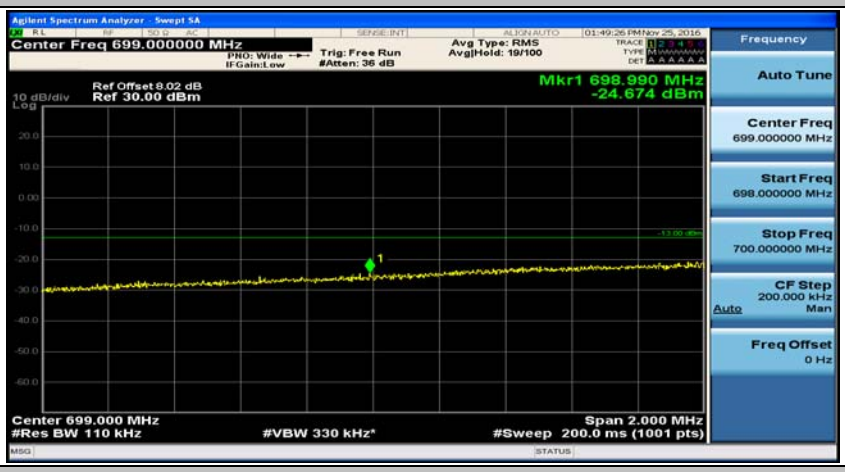
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0

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