

Appendix for Band 13

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	23.44	PASS
		1	12	23.54	PASS
		1	24	23.62	PASS
		12	0	22.45	PASS
		12	6	22.53	PASS
		12	13	22.78	PASS
		25	0	22.54	PASS
	MCH	1	0	23.61	PASS
		1	12	23.77	PASS
		1	24	23.70	PASS
		12	0	22.77	PASS
		12	6	22.78	PASS
		12	13	22.69	PASS
		25	0	22.71	PASS
	HCH	1	0	23.77	PASS
		1	12	23.58	PASS
		1	24	23.36	PASS
		12	0	22.73	PASS
		12	6	22.65	PASS
		12	13	22.58	PASS
		25	0	22.58	PASS
16QAM	LCH	1	0	22.45	PASS
		1	12	22.51	PASS
		1	24	22.59	PASS
		12	0	21.55	PASS
		12	6	21.65	PASS
		12	13	21.82	PASS
		25	0	21.55	PASS
	MCH	1	0	22.31	PASS
		1	12	22.42	PASS
		1	24	22.27	PASS
		12	0	21.65	PASS

		12	6	21.67	PASS
		12	13	21.74	PASS
		25	0	21.65	PASS
	HCH	1	0	22.75	PASS
		1	12	22.59	PASS
		1	24	22.44	PASS
		12	0	21.70	PASS
		12	6	21.70	PASS
		12	13	21.64	PASS
		25	0	21.67	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.92	PASS
		1	24	23.79	PASS
		1	49	23.37	PASS
		25	0	22.58	PASS
		25	12	22.77	PASS
		25	25	22.56	PASS
		50	0	22.56	PASS
	MCH	1	0	23.83	PASS
		1	24	23.73	PASS
		1	49	23.32	PASS
		25	0	22.55	PASS
		25	12	22.74	PASS
		25	25	22.52	PASS
		50	0	22.54	PASS
	HCH	1	0	23.81	PASS
		1	24	23.73	PASS
		1	49	23.32	PASS
		25	0	22.54	PASS
		25	12	22.73	PASS
		25	25	22.56	PASS
		50	0	22.54	PASS
16QAM	LCH	1	0	23.21	PASS
		1	24	22.68	PASS
		1	49	22.39	PASS
		25	0	21.55	PASS
		25	12	21.66	PASS
		25	25	21.58	PASS
		50	0	21.53	PASS

	MCH	1	0	23.16	PASS
		1	24	22.82	PASS
		1	49	22.37	PASS
		25	0	21.53	PASS
		25	12	21.67	PASS
		25	25	21.56	PASS
		50	0	21.56	PASS
	HCH	1	0	23.14	PASS
		1	24	22.79	PASS
		1	49	22.37	PASS
		25	0	21.52	PASS
		25	12	21.67	PASS
		25	25	21.53	PASS
		50	0	21.60	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	4.46	<13	PASS
		1	12	4.82	<13	PASS
		1	24	3.82	<13	PASS
		12	0	5.62	<13	PASS
		12	6	5.56	<13	PASS
		12	13	5.38	<13	PASS
		25	0	5.63	<13	PASS
	MCH	1	0	5.06	<13	PASS
		1	12	3.86	<13	PASS
		1	24	3.01	<13	PASS
		12	0	5.35	<13	PASS
		12	6	4.74	<13	PASS
		12	13	4.19	<13	PASS
		25	0	5.06	<13	PASS
	HCH	1	0	3.65	<13	PASS
		1	12	2.97	<13	PASS
		1	24	4.25	<13	PASS
		12	0	4.2	<13	PASS
		12	6	3.94	<13	PASS
		12	13	4.38	<13	PASS
		25	0	4.69	<13	PASS
16QAM	LCH	1	0	5.62	<13	PASS
		1	12	6.13	<13	PASS
		1	24	5.19	<13	PASS
		12	0	6.45	<13	PASS
		12	6	6.51	<13	PASS
		12	13	6.28	<13	PASS
		25	0	6.44	<13	PASS
	MCH	1	0	5.89	<13	PASS
		1	12	4.78	<13	PASS
		1	24	4.03	<13	PASS
		12	0	6.34	<13	PASS

		12	6	5.83	<13	PASS
		12	13	5.19	<13	PASS
		25	0	5.89	<13	PASS
	HCH	1	0	4.72	<13	PASS
		1	12	4.12	<13	PASS
		1	24	5.25	<13	PASS
		12	0	5.06	<13	PASS
		12	6	4.82	<13	PASS
		12	13	5.23	<13	PASS
		25	0	5.42	<13	PASS

Channel Bandwidth: 10 MHz

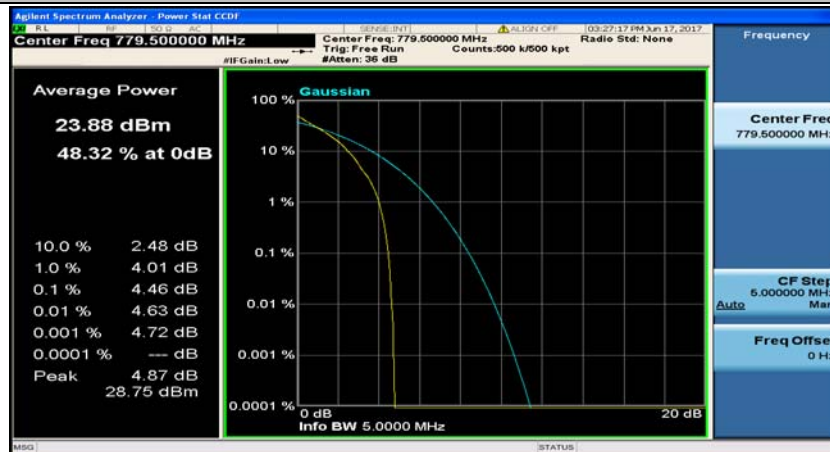
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.29	<13	PASS
		1	24	3.94	<13	PASS
		1	49	4.08	<13	PASS
		25	0	5.54	<13	PASS
		25	12	4.85	<13	PASS
		25	25	4.62	<13	PASS
		50	0	4.99	<13	PASS
	MCH	1	0	4.61	<13	PASS
		1	24	3.9	<13	PASS
		1	49	4.11	<13	PASS
		25	0	5.51	<13	PASS
		25	12	4.86	<13	PASS
		25	25	4.59	<13	PASS
		50	0	5	<13	PASS
	HCH	1	0	4.77	<13	PASS
		1	24	3.86	<13	PASS
		1	49	4.09	<13	PASS
		25	0	5.51	<13	PASS
		25	12	4.86	<13	PASS
		25	25	4.63	<13	PASS
		50	0	4.99	<13	PASS
16QAM	LCH	1	0	5.82	<13	PASS
		1	24	5.1	<13	PASS
		1	49	5.11	<13	PASS
		25	0	6.41	<13	PASS
		25	12	5.78	<13	PASS

		25	25	5.38	<13	PASS
		50	0	5.82	<13	PASS
	MCH	1	0	5.32	<13	PASS
		1	24	5.05	<13	PASS
		1	49	5.2	<13	PASS
		25	0	6.43	<13	PASS
		25	12	5.76	<13	PASS
		25	25	5.36	<13	PASS
		50	0	5.82	<13	PASS
	HCH	1	0	5.29	<13	PASS
		1	24	5.03	<13	PASS
		1	49	5.16	<13	PASS
		25	0	6.42	<13	PASS
		25	12	5.78	<13	PASS
		25	25	5.4	<13	PASS
		50	0	5.82	<13	PASS

Test Graphs

Channel Bandwidth: 5 MHz

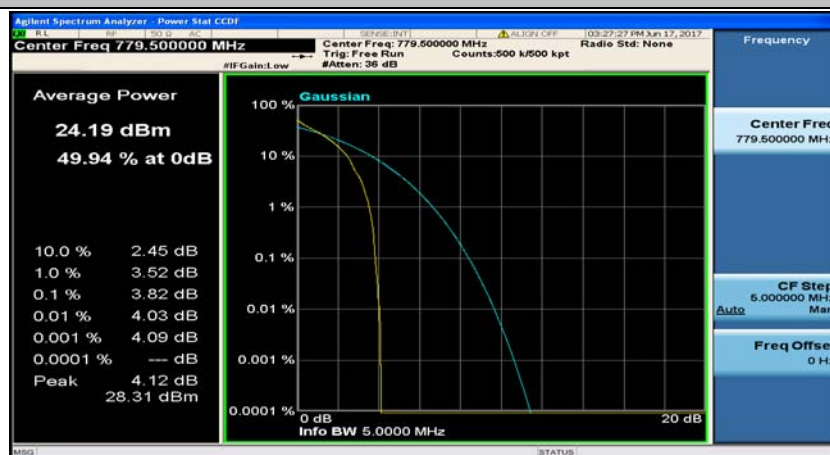
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(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



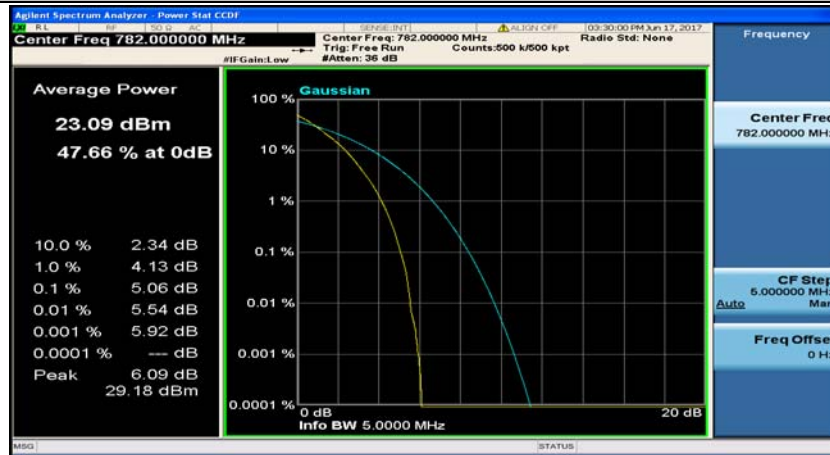
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6



(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



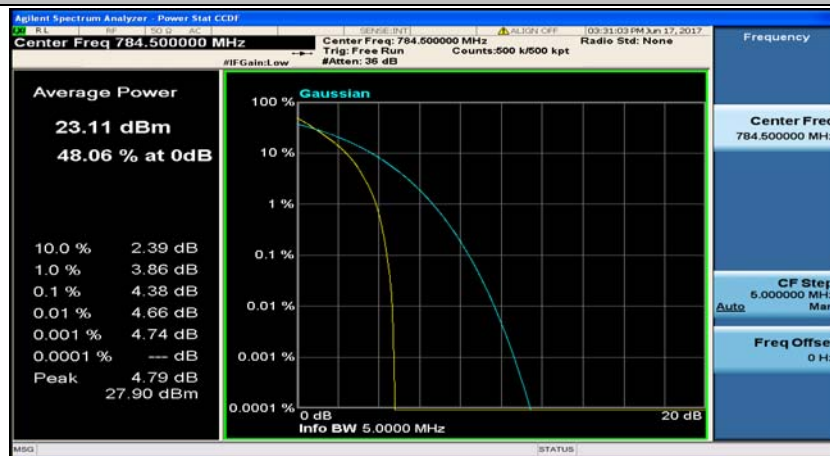
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



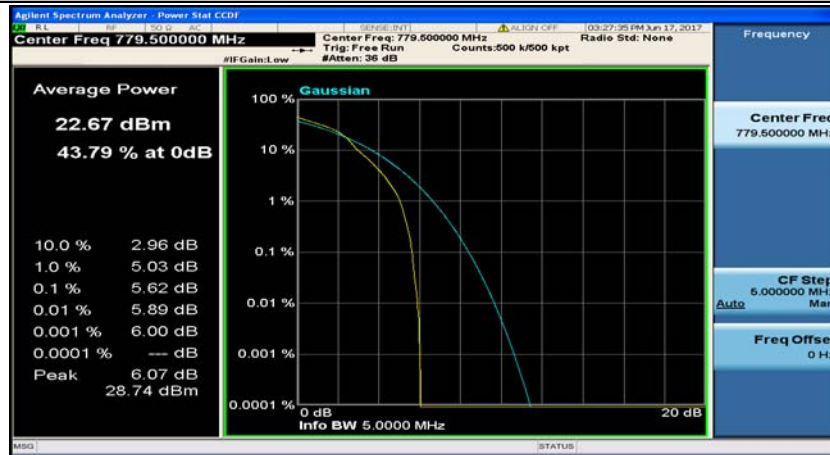
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



(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



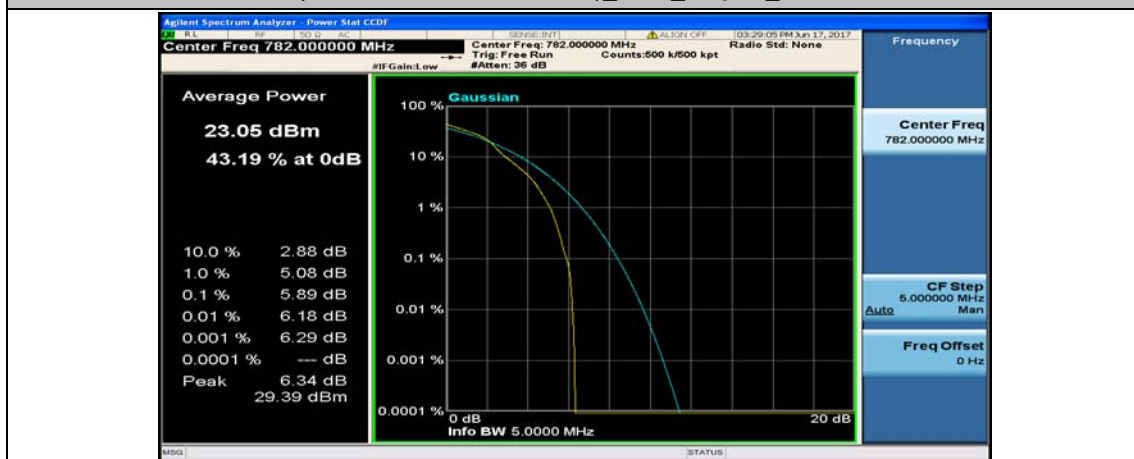
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



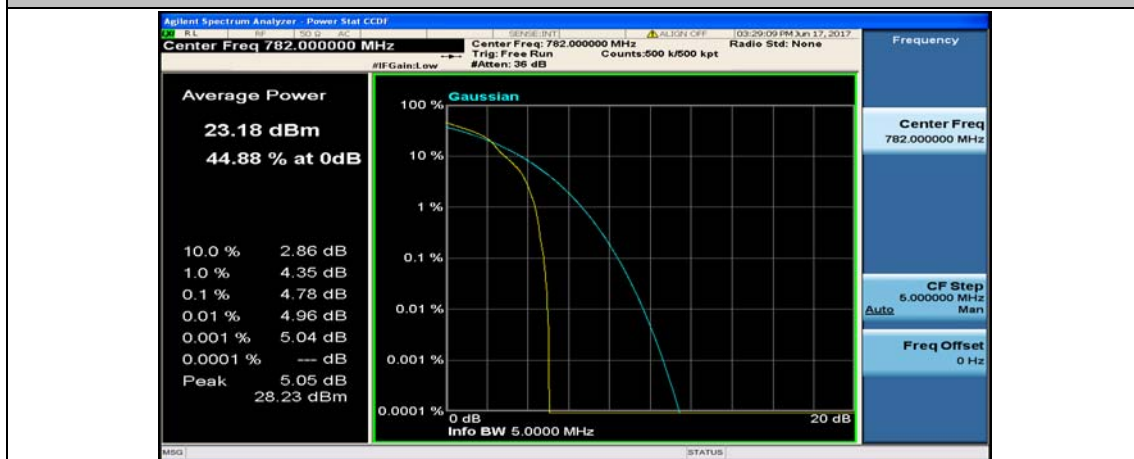
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(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



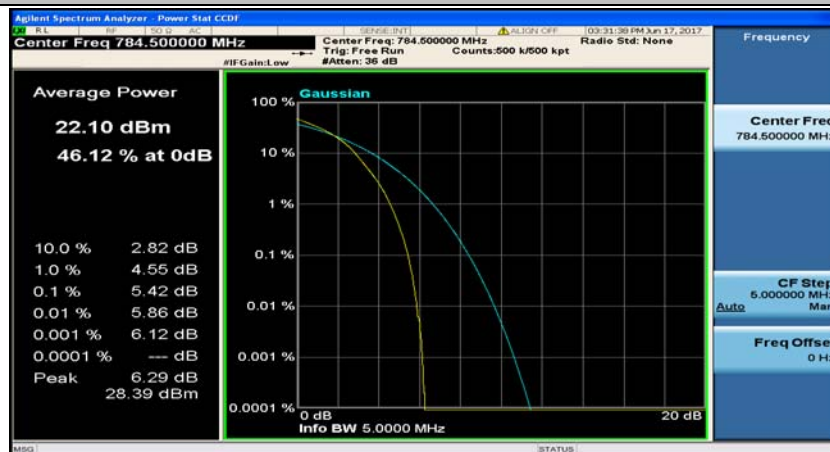
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



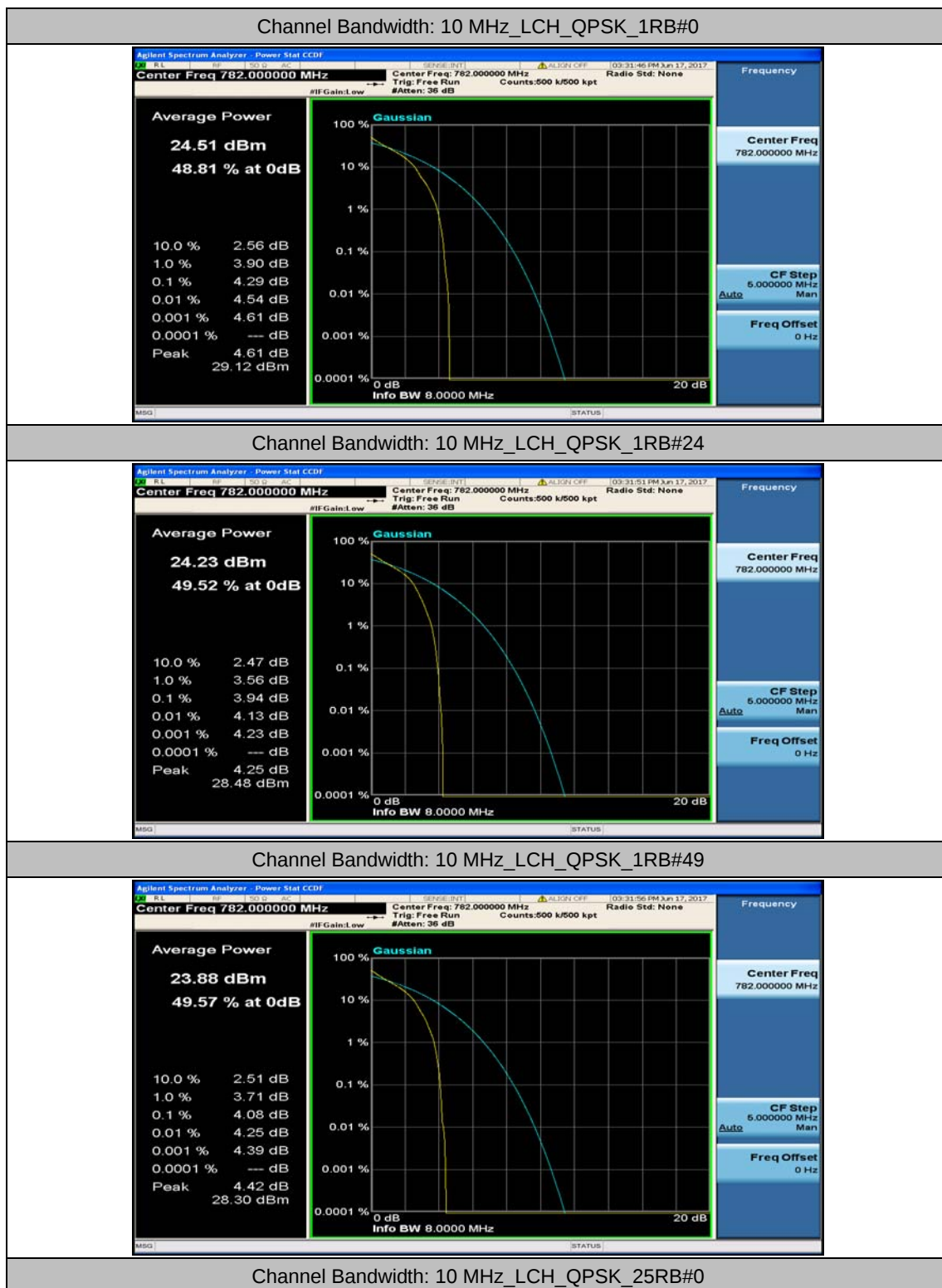
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

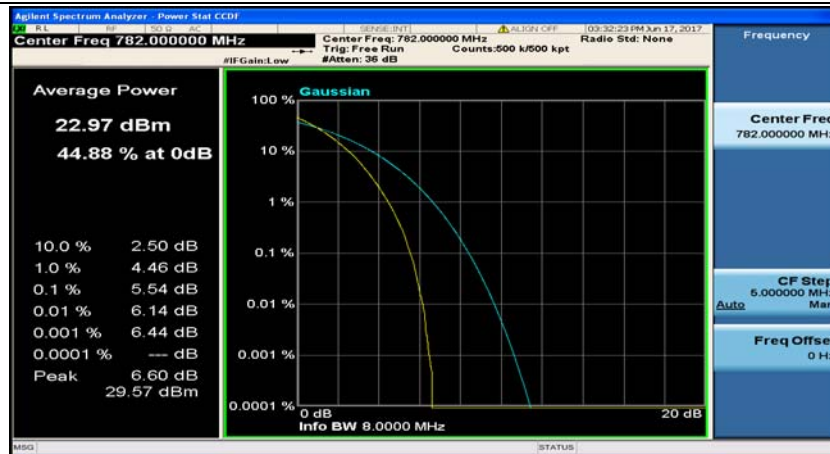


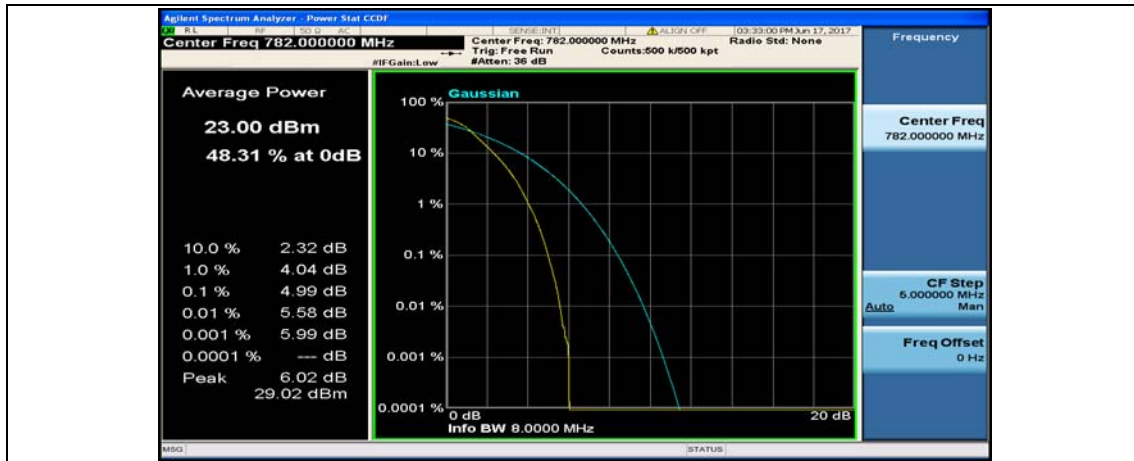
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0



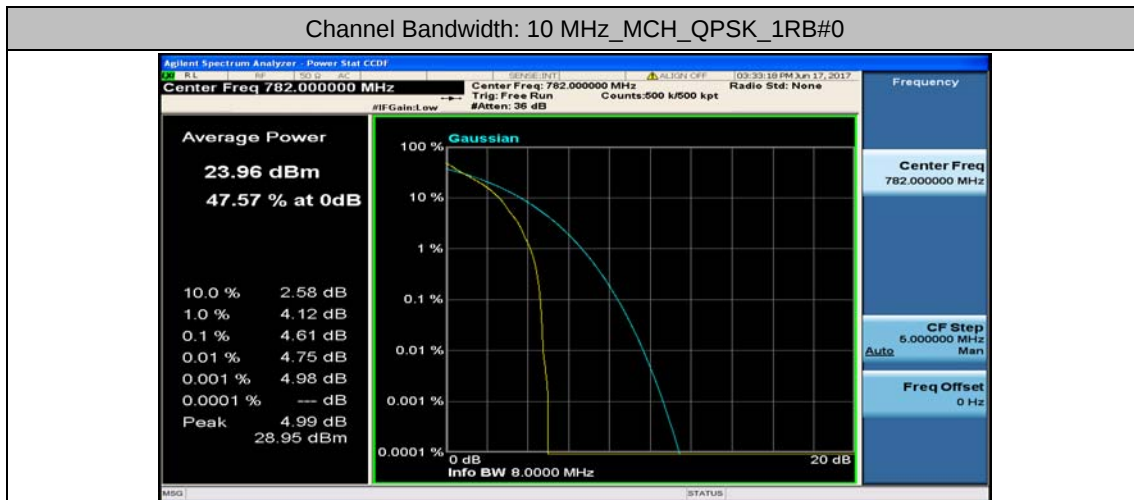
Channel Bandwidth: 10 MHz



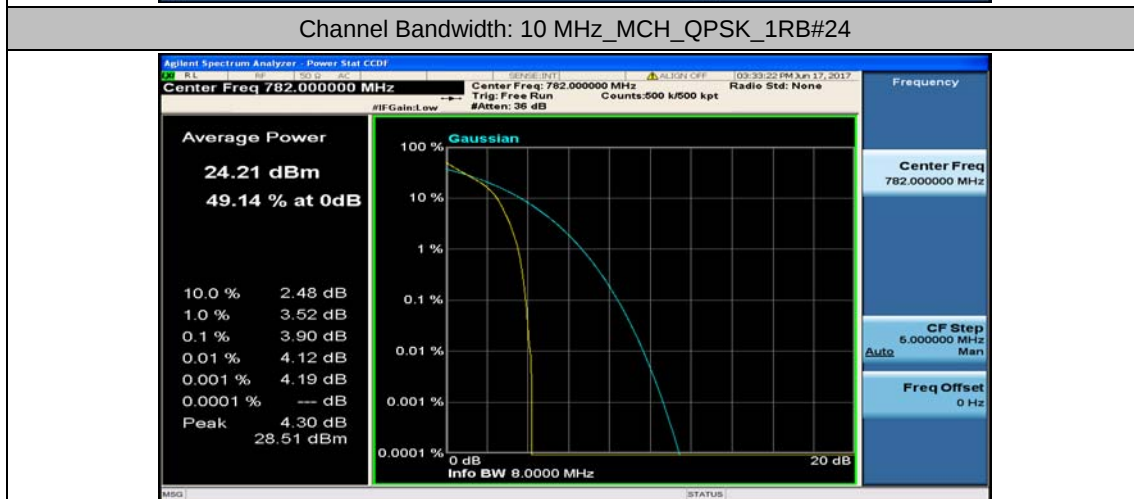




Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49



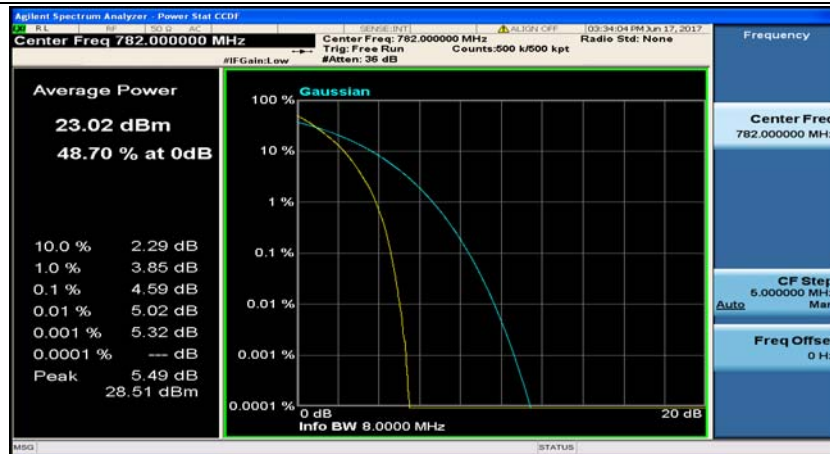
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0



Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12



Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25



Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



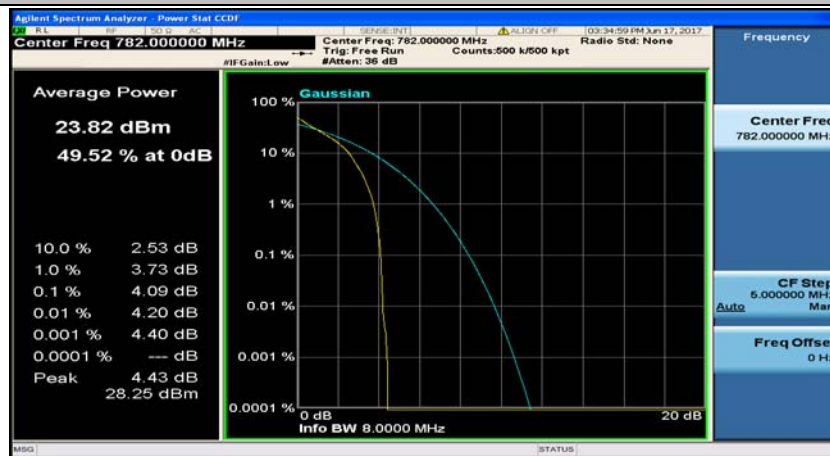
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24



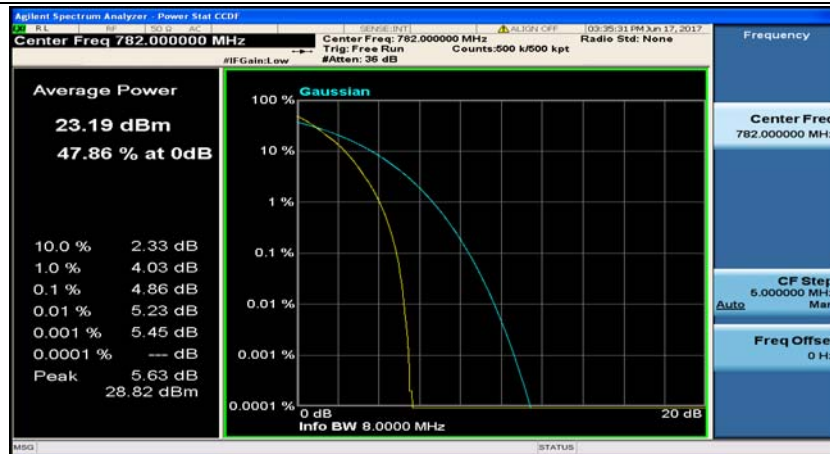
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



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





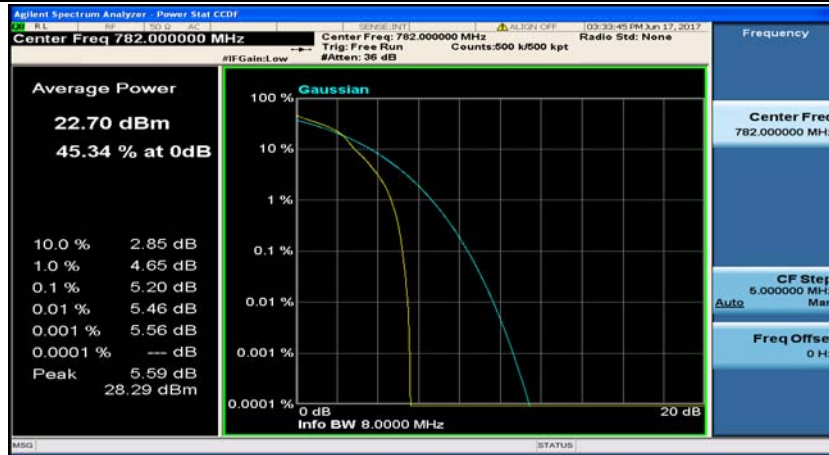
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

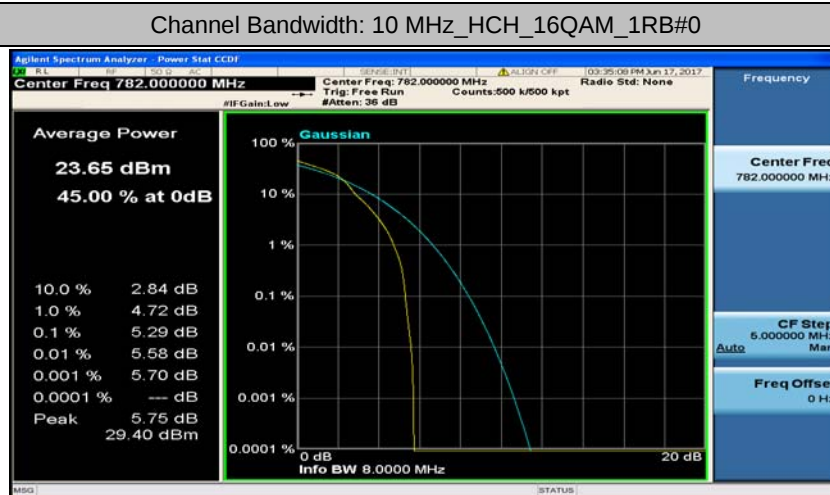


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24



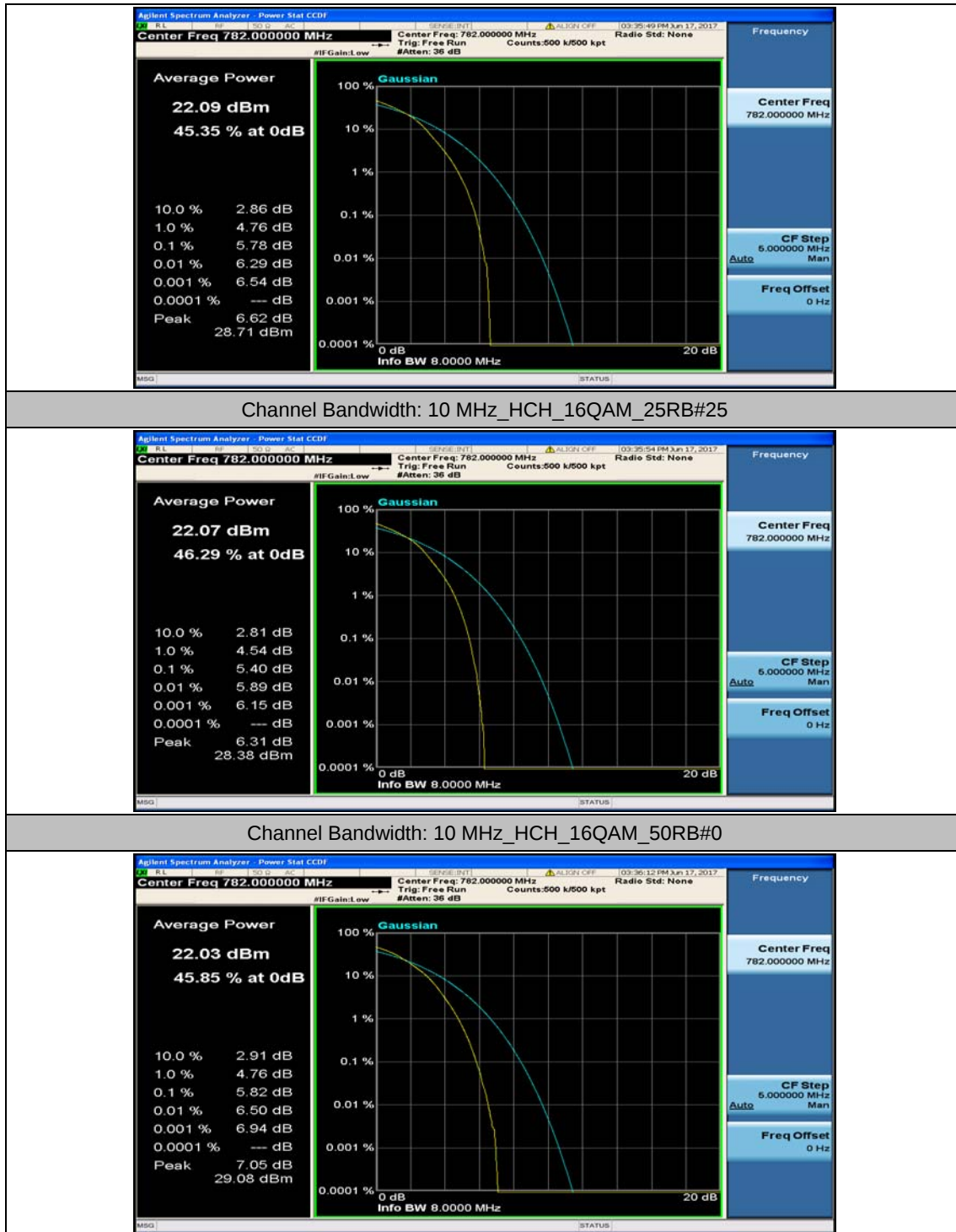
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49





Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24





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	4.4802	4.853	PASS
	MCH	25	0	4.4589	4.800	PASS
	HCH	25	0	4.4703	4.802	PASS
16QAM	LCH	25	0	4.4794	4.763	PASS
	MCH	25	0	4.4660	4.833	PASS
	HCH	25	0	4.4637	4.824	PASS

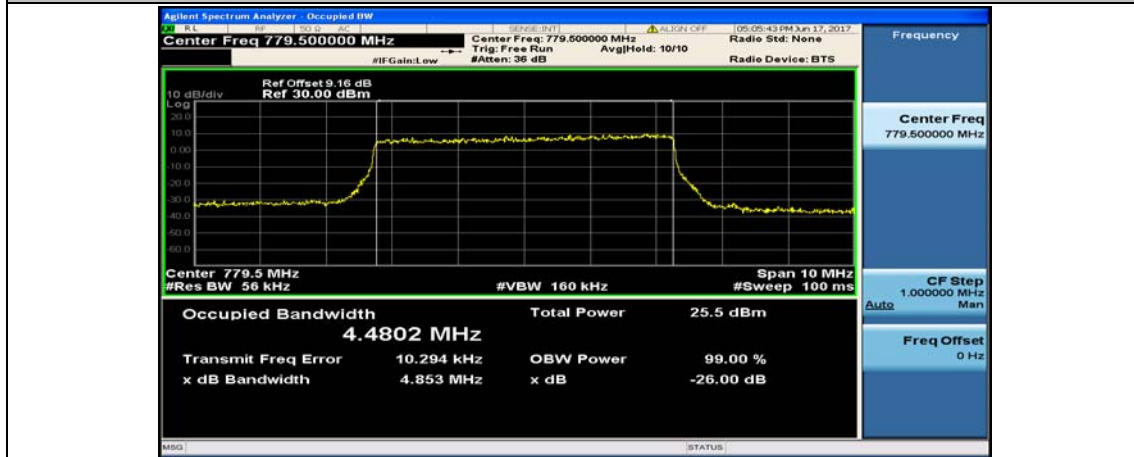
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.8908	9.363	PASS
	MCH	50	0	8.8901	9.412	PASS
	HCH	50	0	8.8839	9.384	PASS
16QAM	LCH	50	0	8.8799	9.402	PASS
	MCH	50	0	8.8743	9.304	PASS
	HCH	50	0	8.8755	9.296	PASS

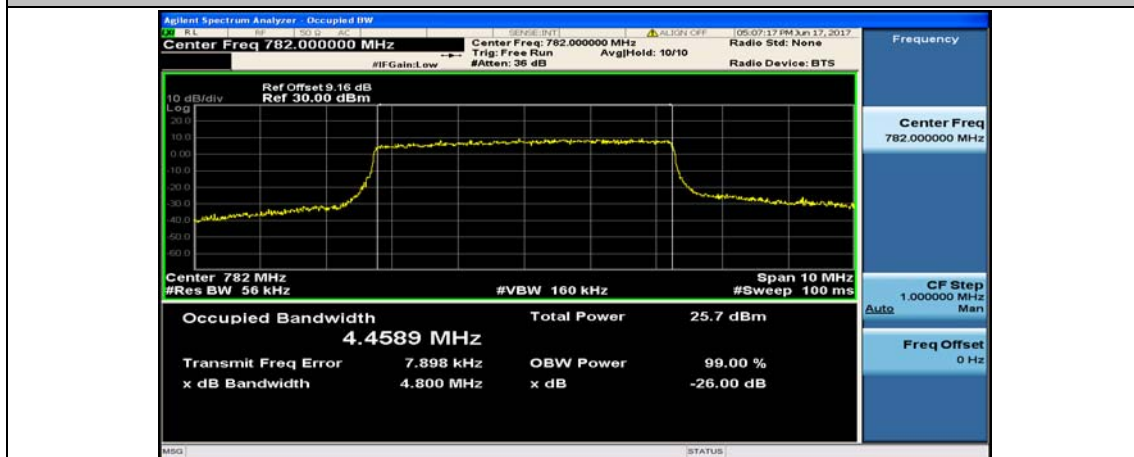
Test Graphs

Channel Bandwidth: 5 MHz

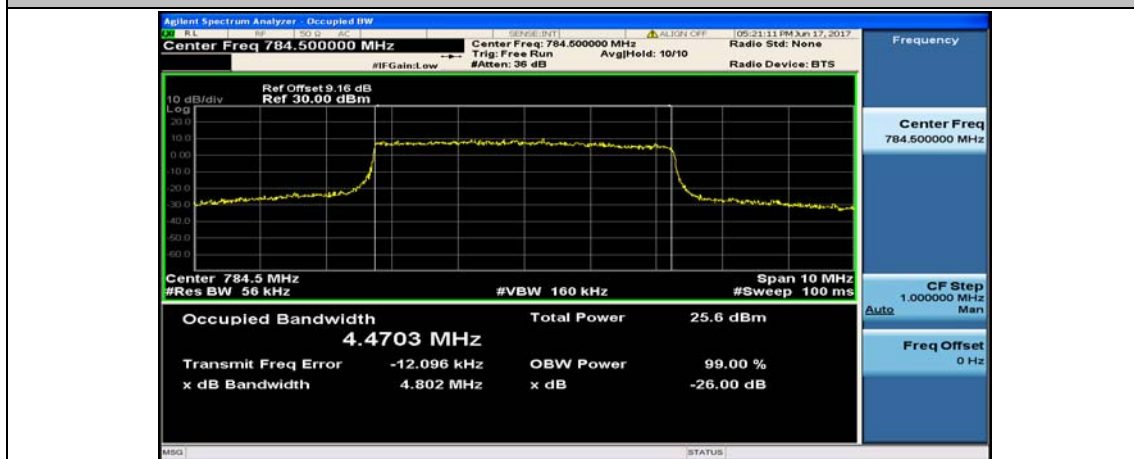
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



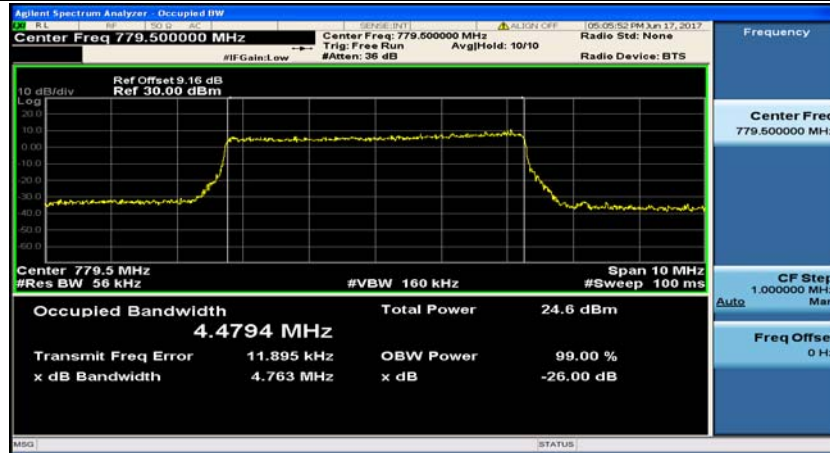
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



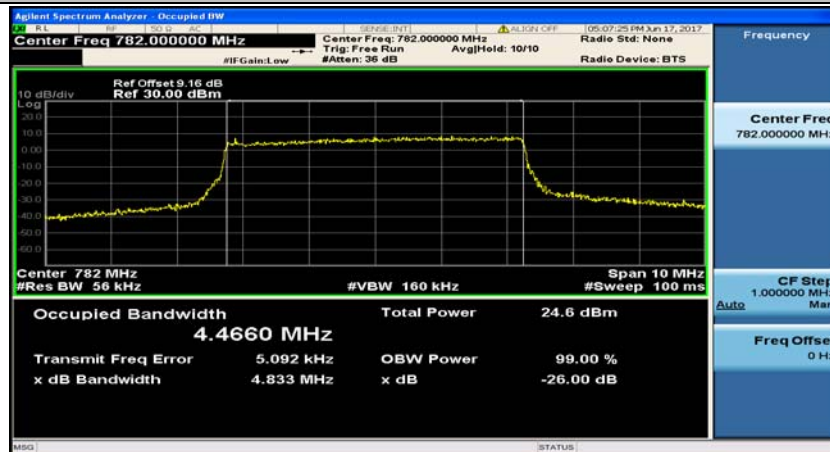
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



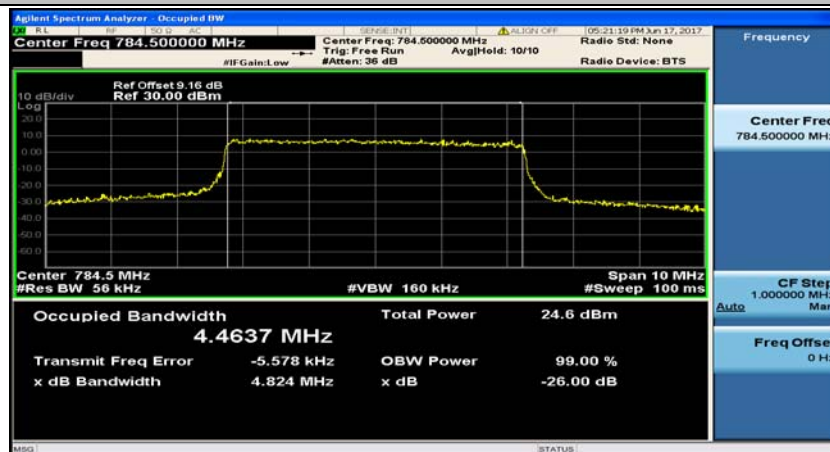
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0

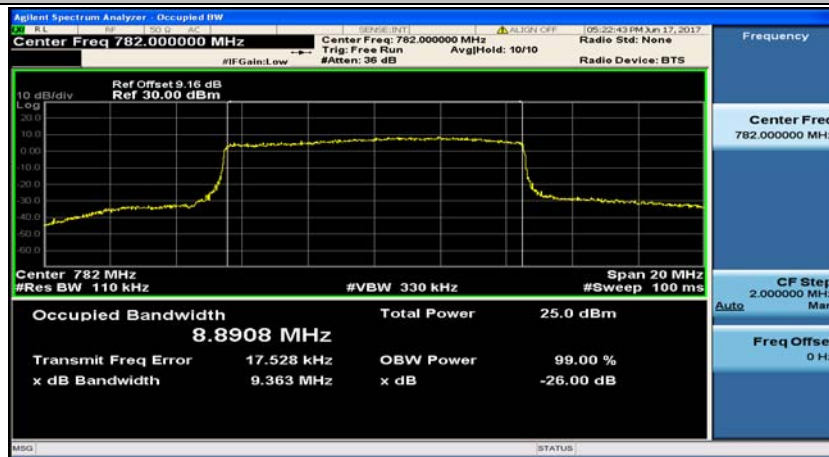


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

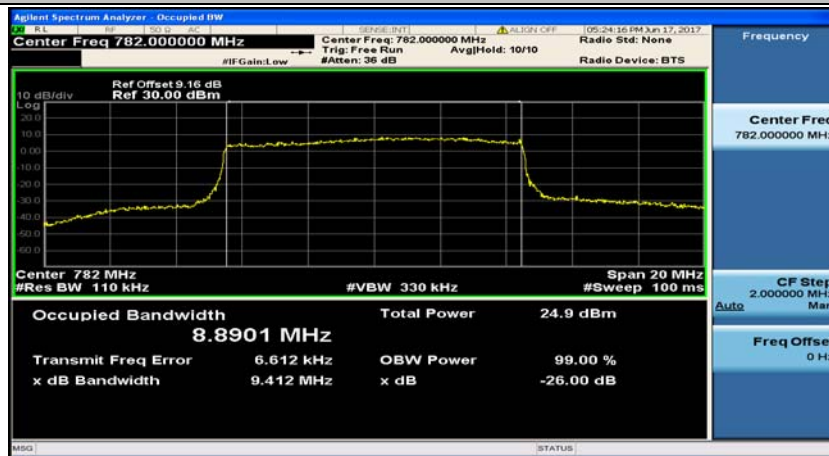


Channel Bandwidth: 10 MHz

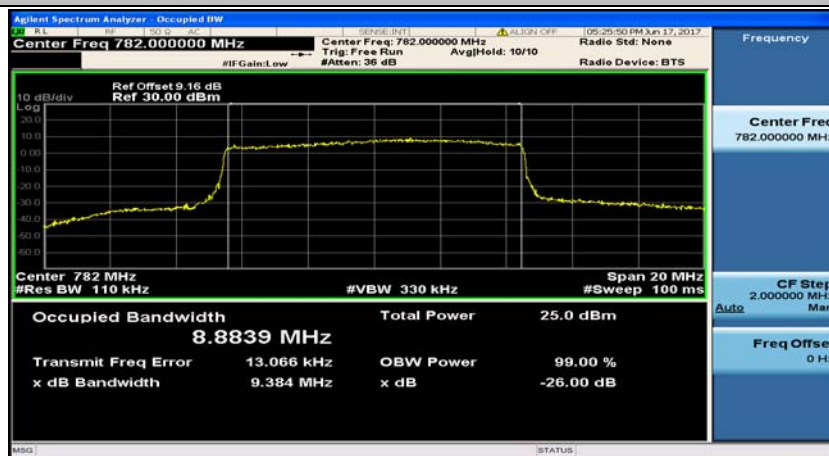
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



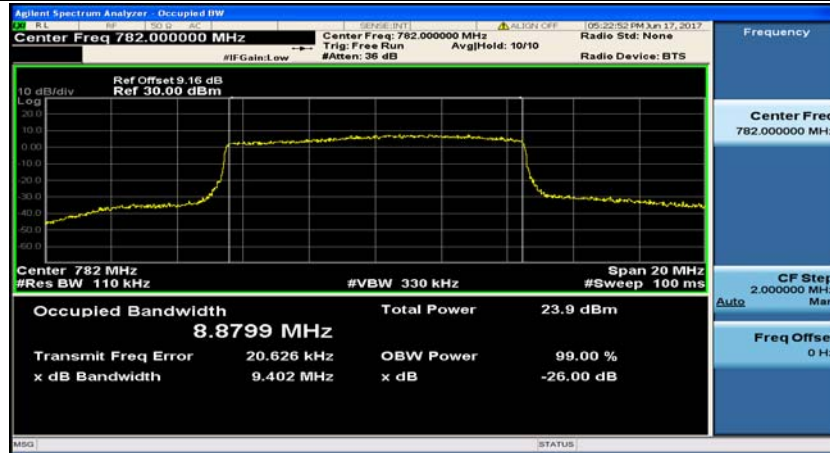
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



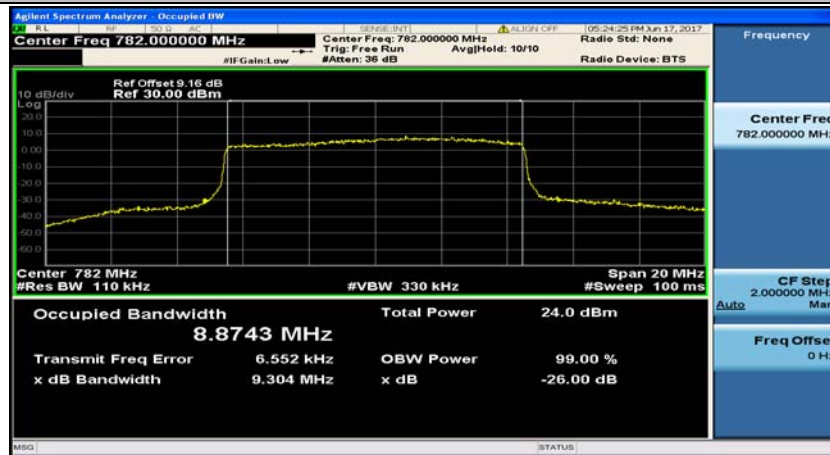
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



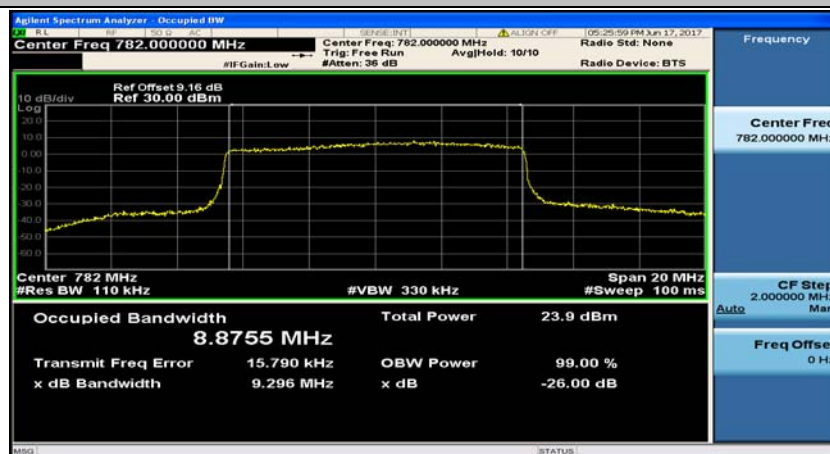
Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0

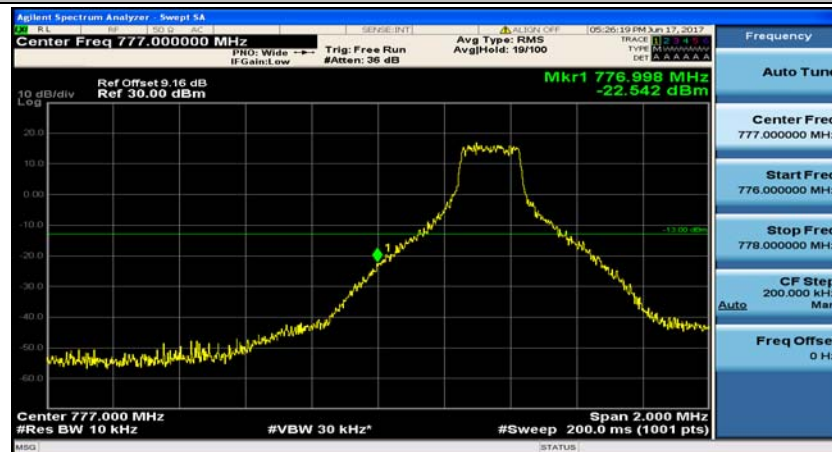


Appendix D: Band Edge

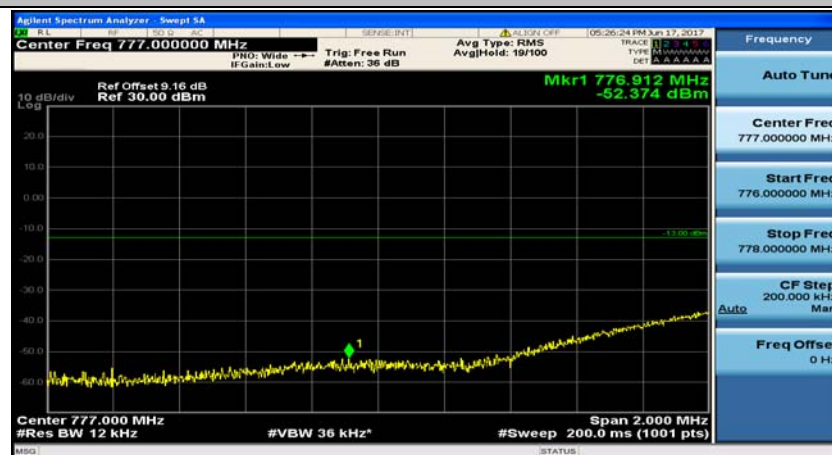
Test Graphs

Channel Bandwidth: 5 MHz

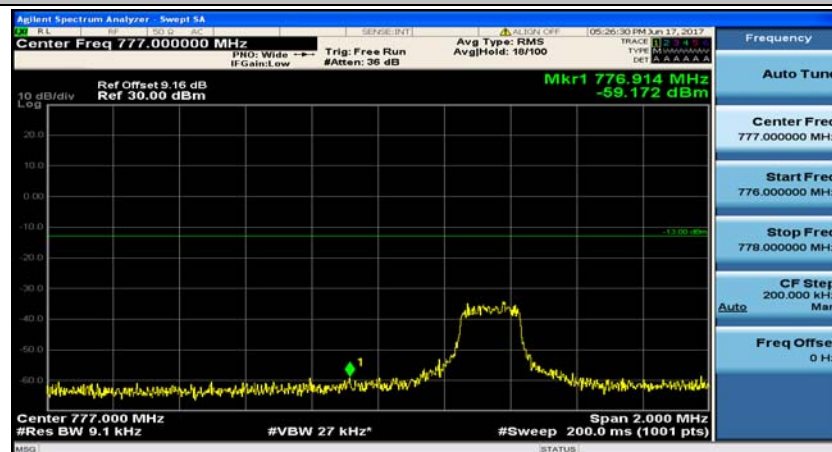
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



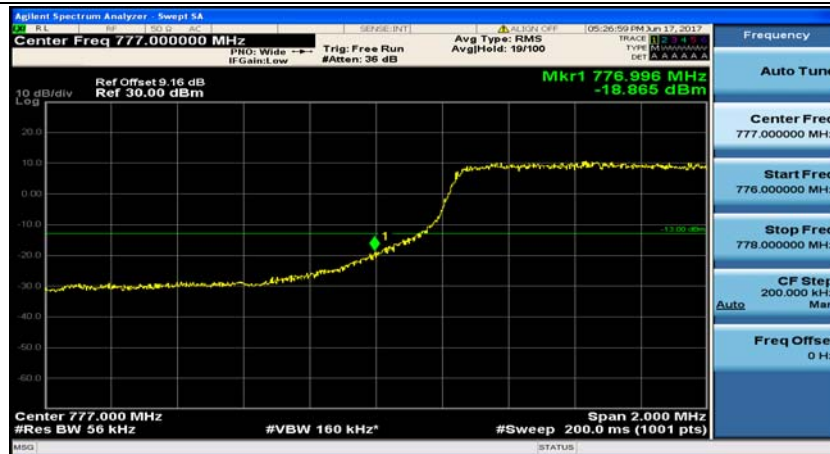
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



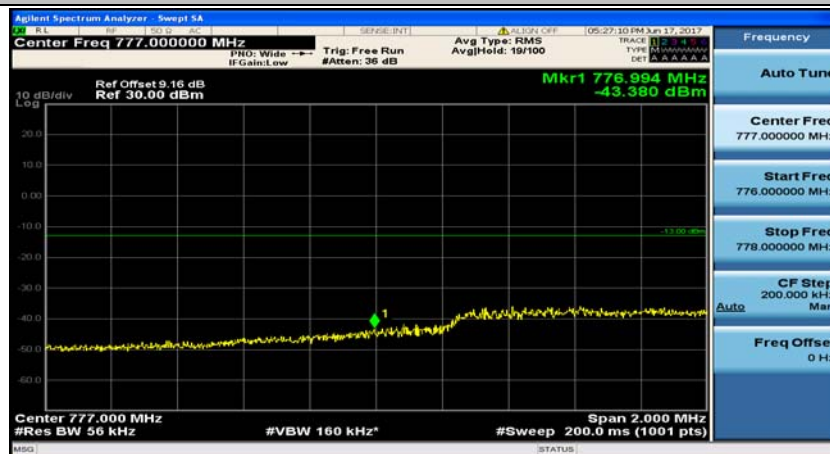
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



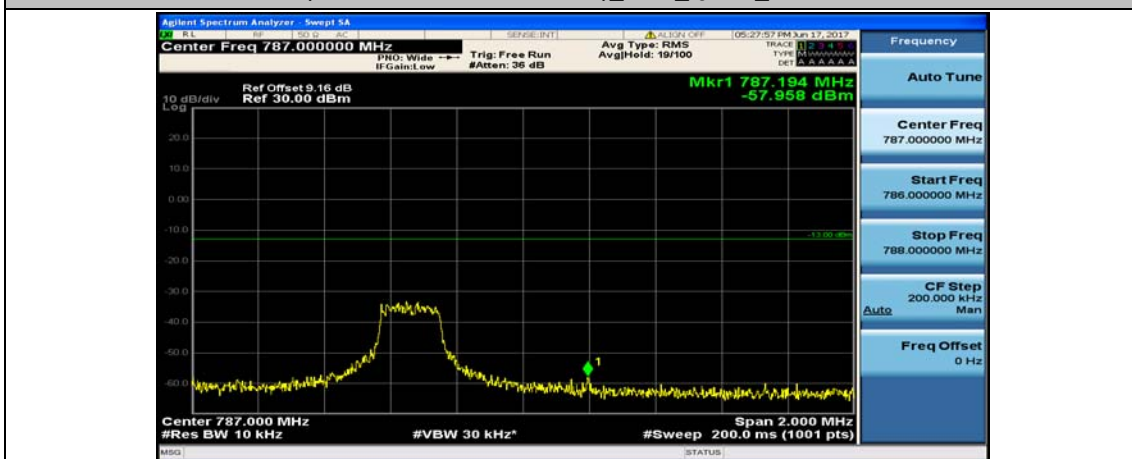
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



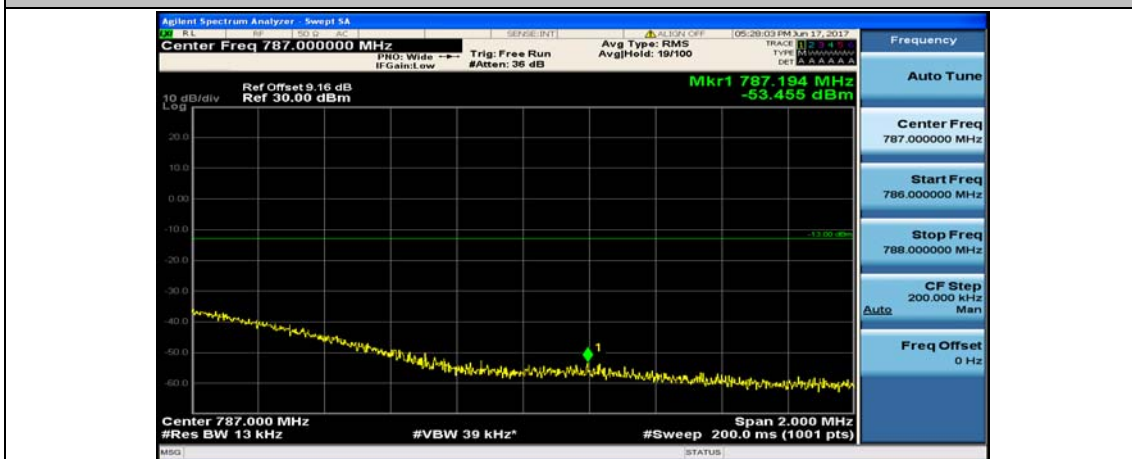
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



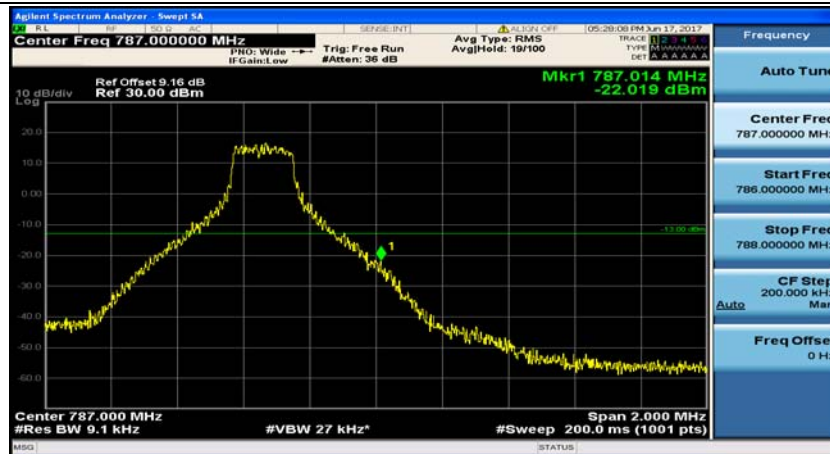
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(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



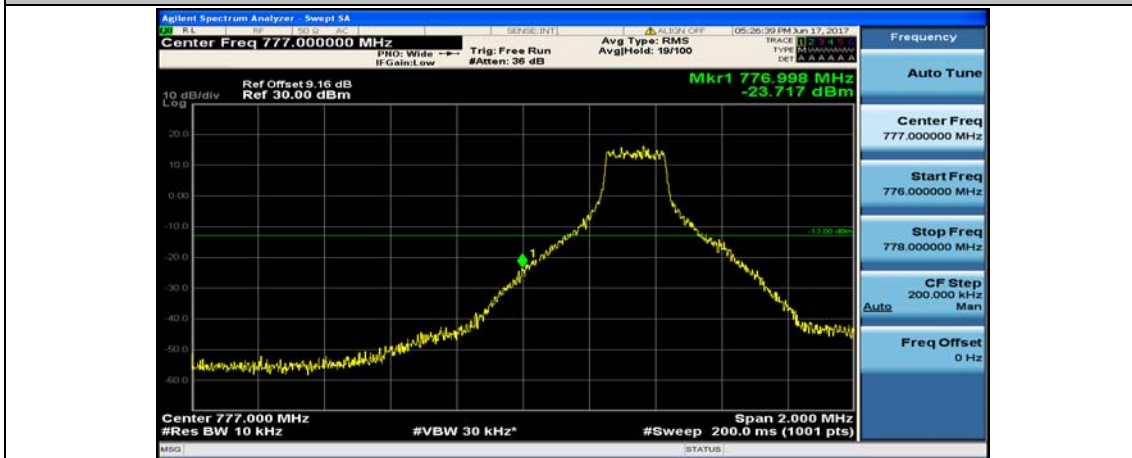
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



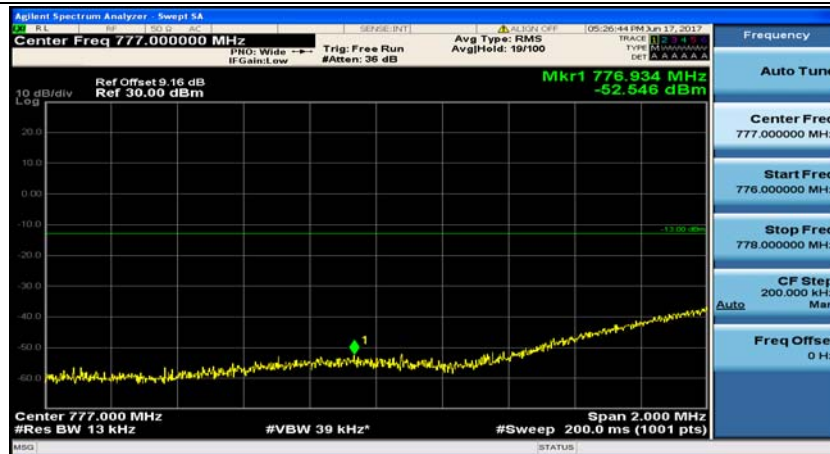
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



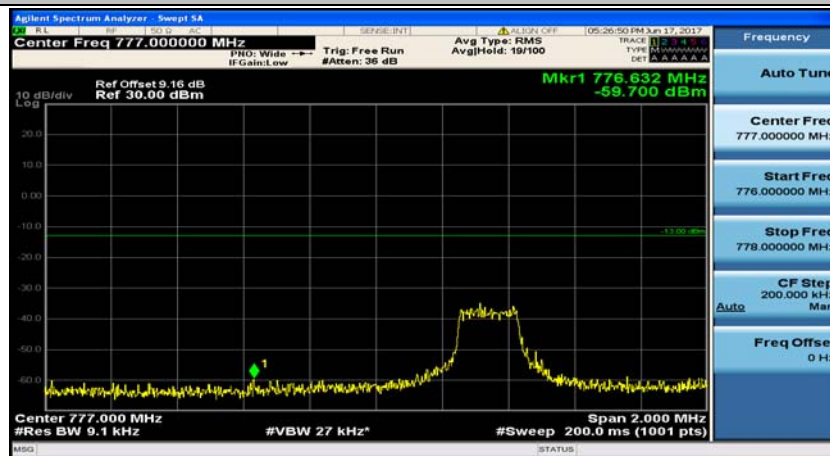
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



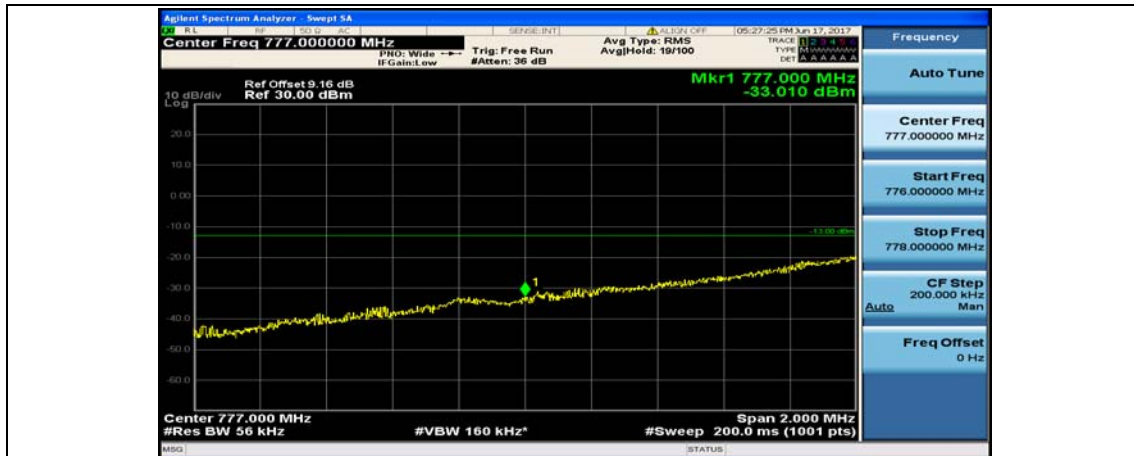
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



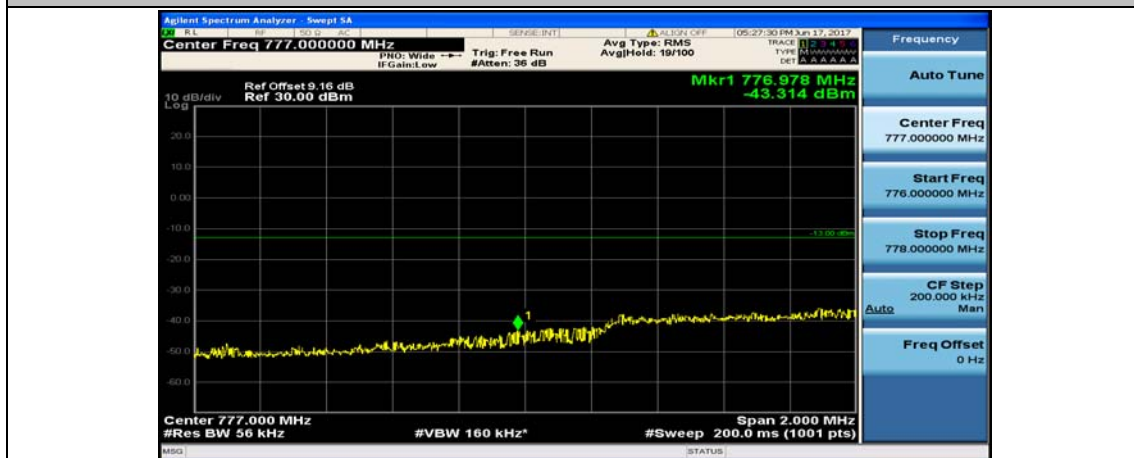
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



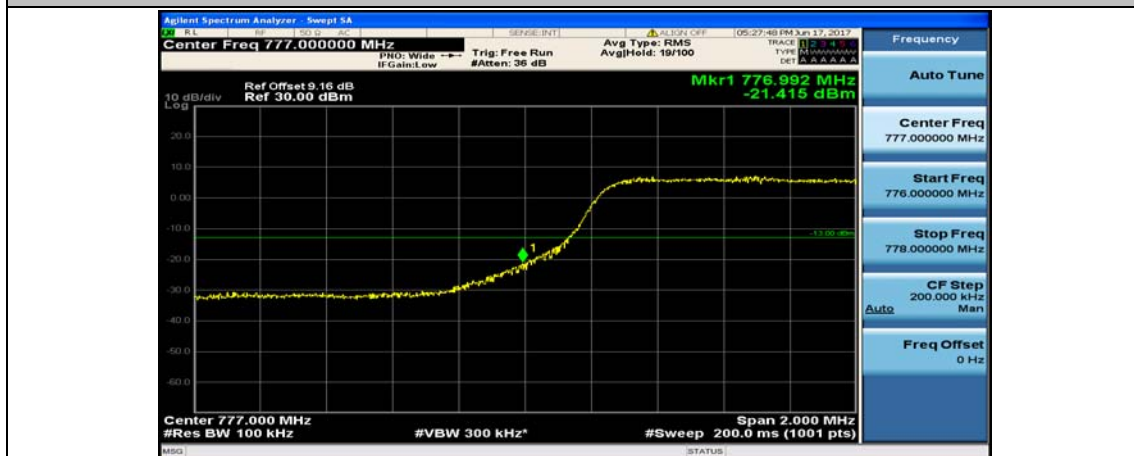
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



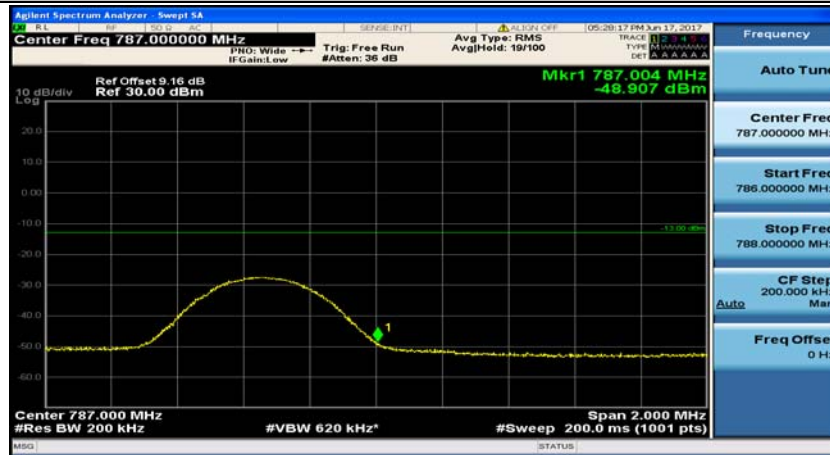
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



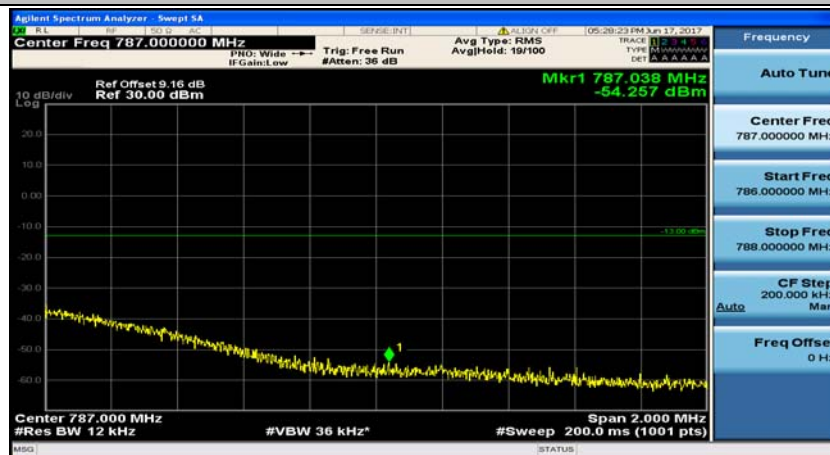
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



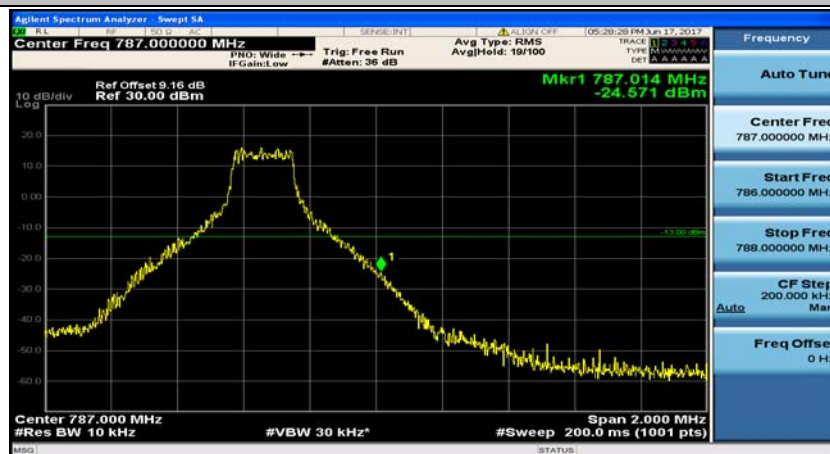
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



(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

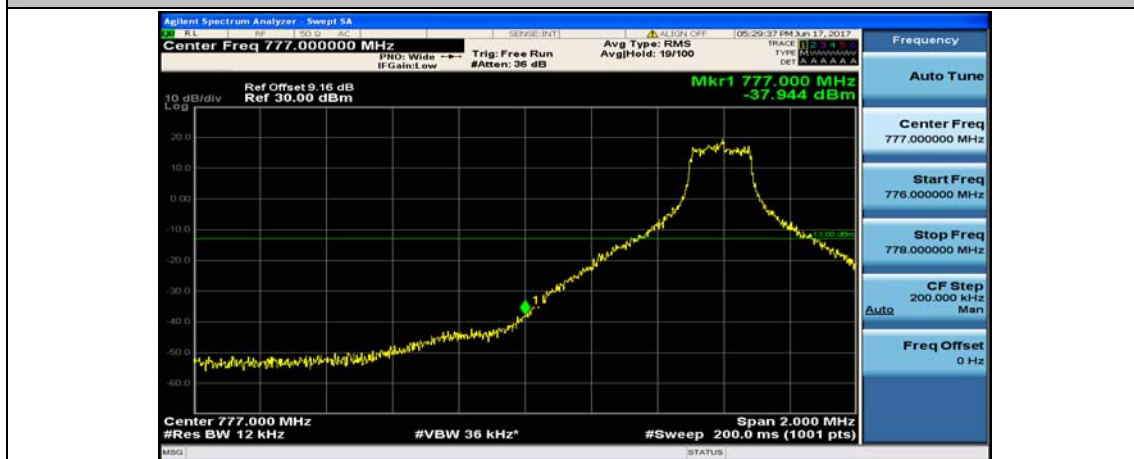


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

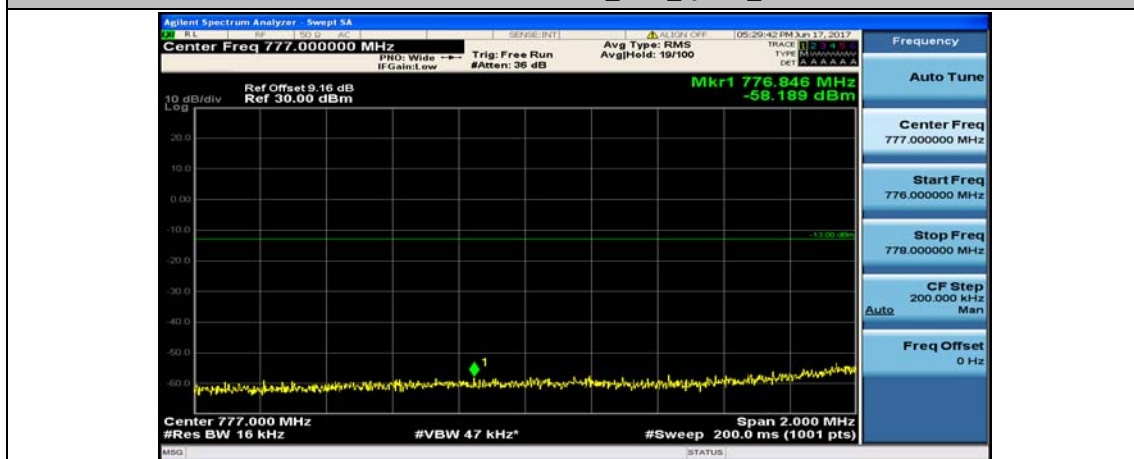


Channel Bandwidth: 10 MHz

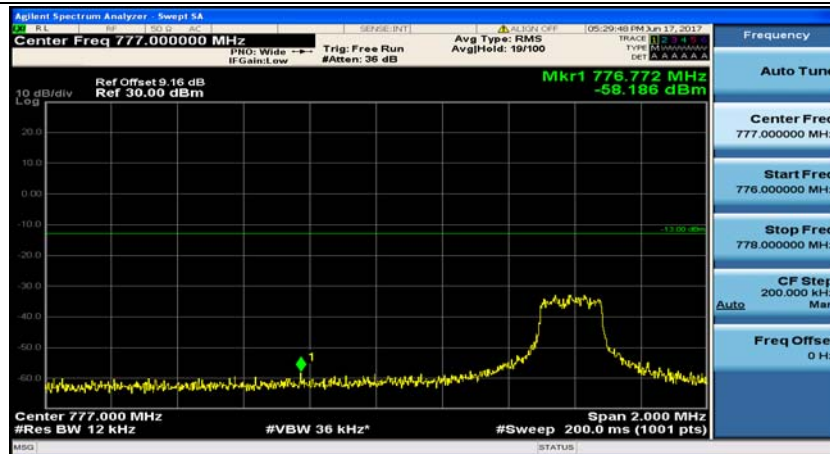
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24



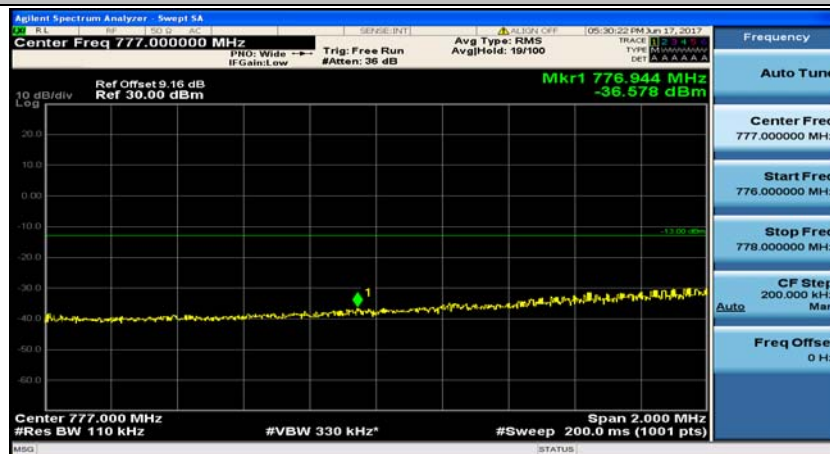
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49



Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0



Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12



Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25