



Appendix E: Test Data for E-UTRA Band 13

Product Name: CellCOM Prime 7 4G

Trade Mark: AES

Test Model: PRIME7-PX-IMPX-PED/4GA

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan



E.1 Conducted Output Power

Test Result

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.48	22.25	PASS
		1	12	22.51	22.28	PASS
		1	24	22.32	22.24	PASS
		12	0	21.65	21.10	PASS
		12	6	21.65	21.13	PASS
		12	13	21.64	21.14	PASS
		25	0	21.66	21.09	PASS
	MCH	1	0	23.01	21.84	PASS
		1	12	22.86	21.77	PASS
		1	24	22.91	22.00	PASS
		12	0	21.68	20.87	PASS
		12	6	21.60	20.72	PASS
		12	13	21.68	20.91	PASS
		25	0	21.66	21.01	PASS
	HCH	1	0	22.44	21.26	PASS
		1	12	22.53	21.25	PASS
		1	24	22.57	21.46	PASS
		12	0	21.66	21.02	PASS
		12	6	21.66	21.02	PASS
		12	13	21.68	21.04	PASS
		25	0	21.60	21.04	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	MCH	1	0	22.44	22.02	PASS
		1	24	22.37	21.96	PASS
		1	49	22.45	21.99	PASS
		25	0	21.66	20.97	PASS
		25	12	21.66	20.97	PASS
		25	25	21.66	20.97	PASS
		50	0	21.60	20.98	PASS



E.2 Peak-to-Average Ratio

Test Result

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.15	<13	PASS
	MCH	4.97	<13	PASS
	HCH	4.99	<13	PASS
16QAM	LCH	5.93	<13	PASS
	MCH	5.61	<13	PASS
	HCH	5.62	<13	PASS

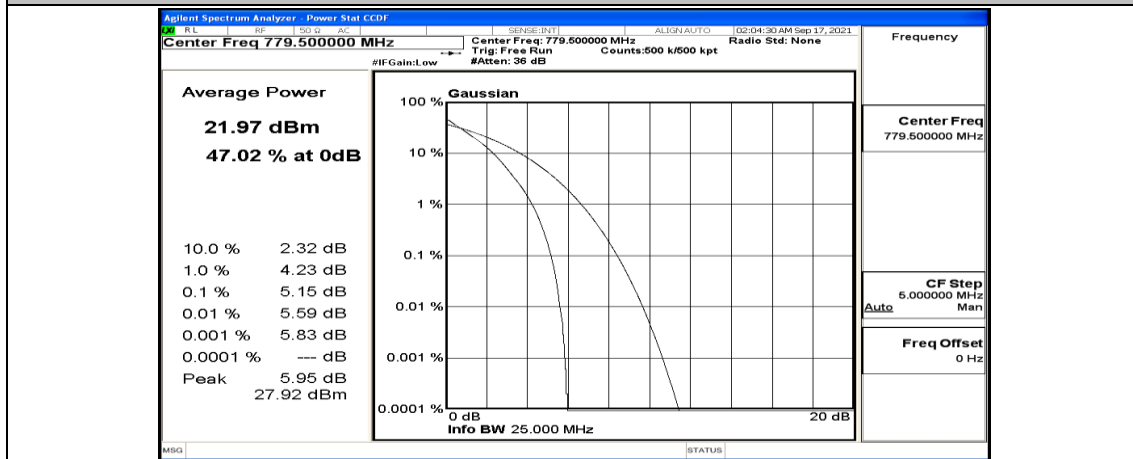
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	MCH	5.2	<13	PASS
16QAM	MCH	5.84	<13	PASS



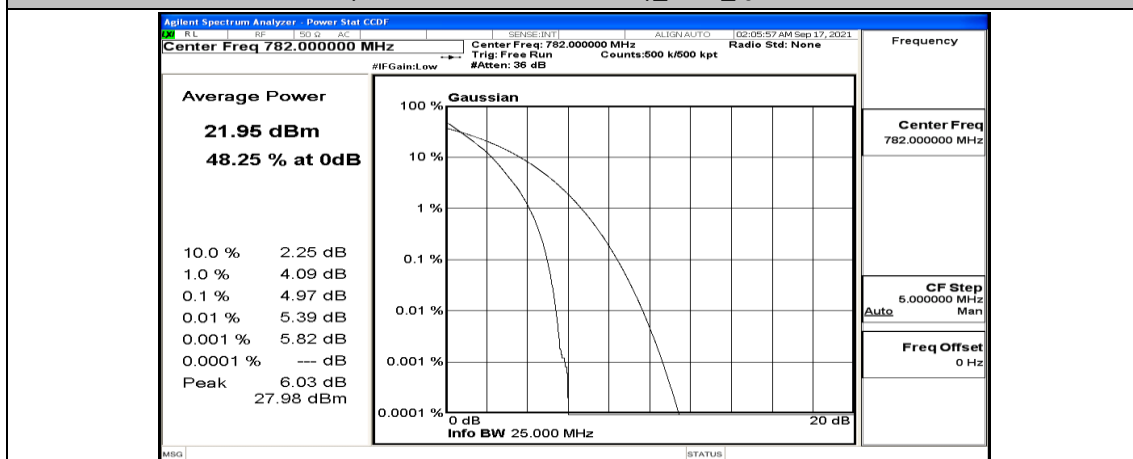
Test Graphs

Channel Bandwidth: 5 MHz

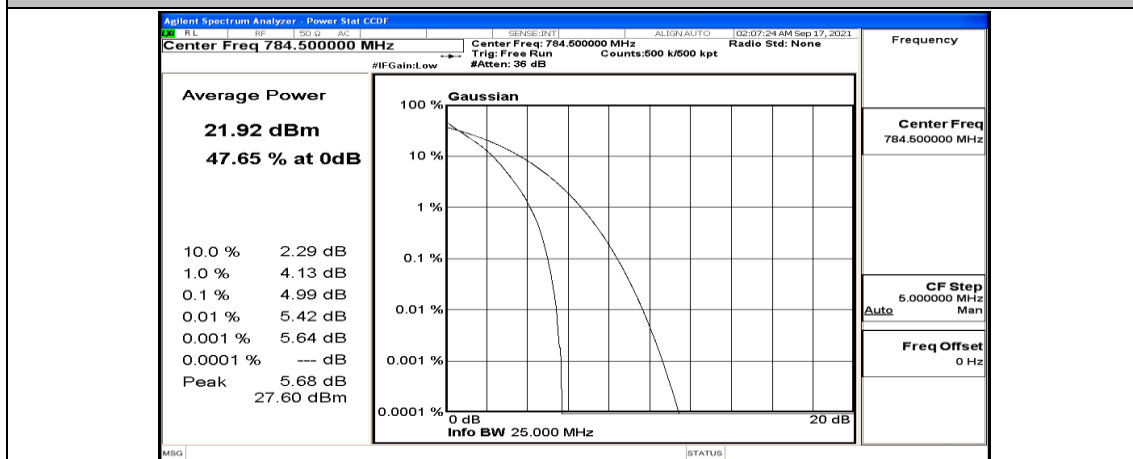
(Channel Bandwidth: 5 MHz)_LCH_QPSK



(Channel Bandwidth: 5 MHz)_MCH_QPSK

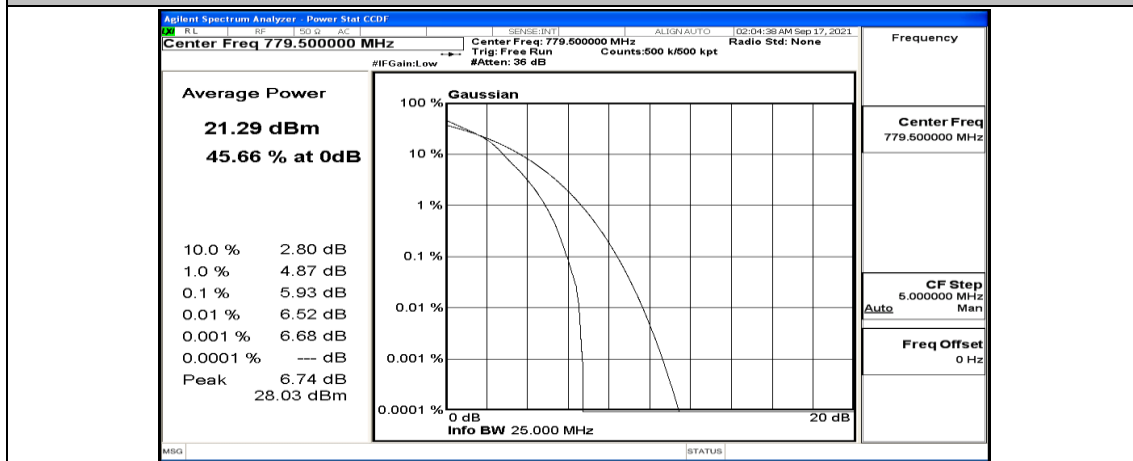


(Channel Bandwidth: 5 MHz)_HCH_QPSK

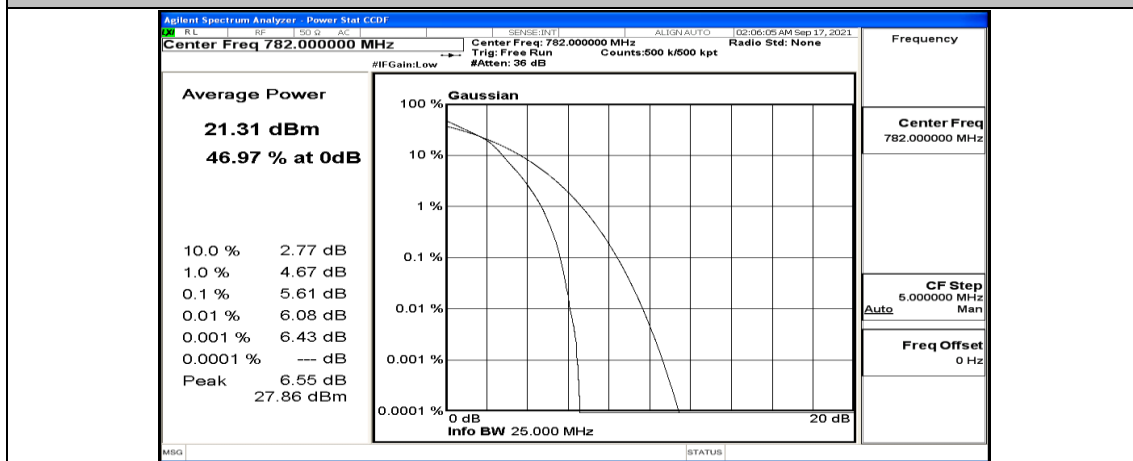




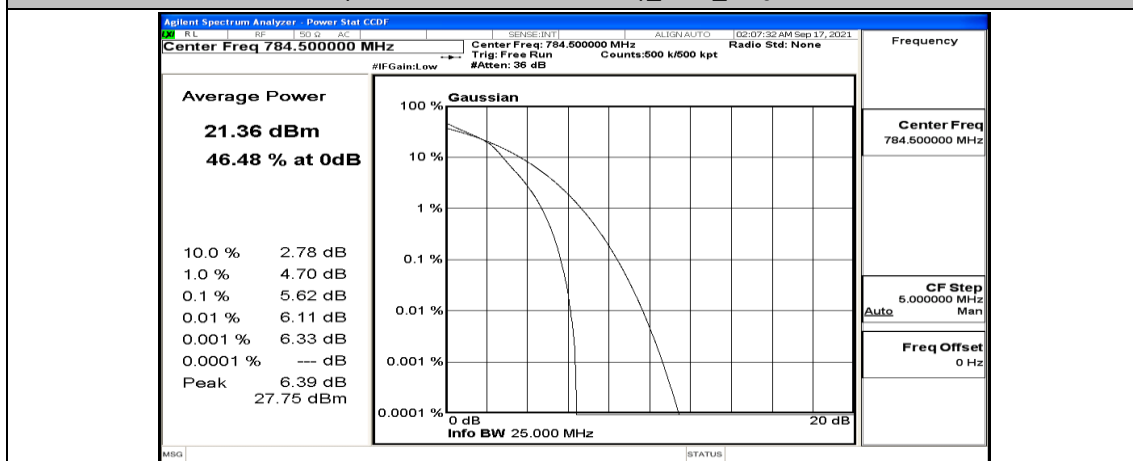
(Channel Bandwidth: 5 MHz)_LCH_16QAM

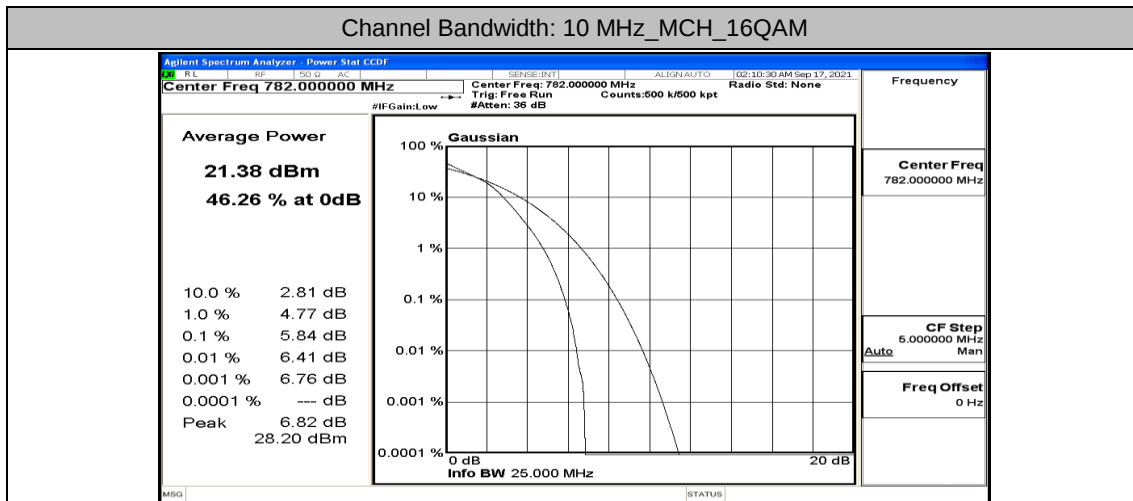
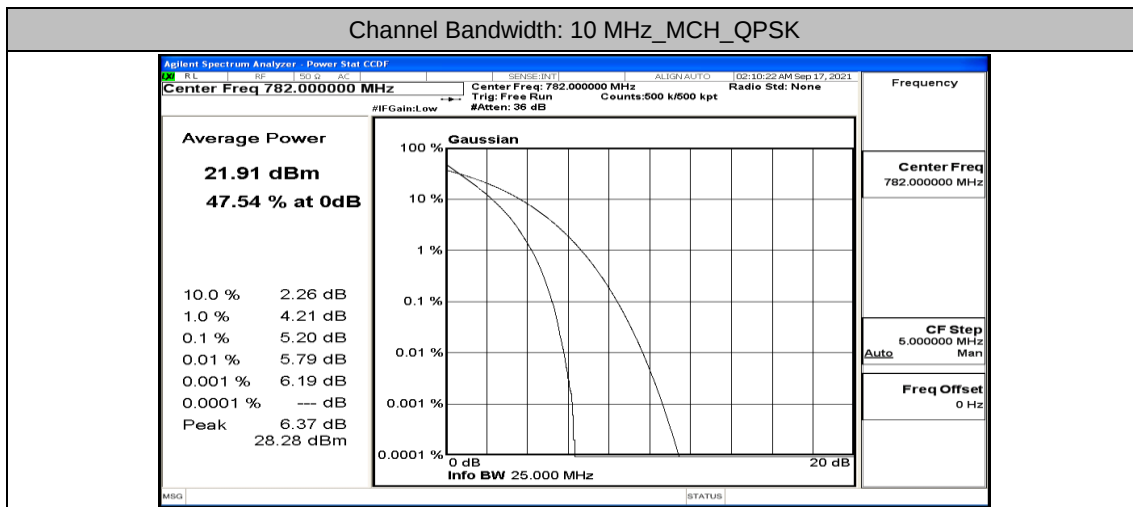


(Channel Bandwidth: 5 MHz)_MCH_16QAM



(Channel Bandwidth: 5 MHz)_HCH_16QAM



**Channel Bandwidth: 10 MHz**



E.3 26dB Bandwidth and Occupied Bandwidth

Test Result

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4728	4.862	PASS
	MCH	4.4864	4.857	PASS
	HCH	4.4791	4.882	PASS
16QAM	LCH	4.4746	4.879	PASS
	MCH	4.4756	4.895	PASS
	HCH	4.4812	4.863	PASS

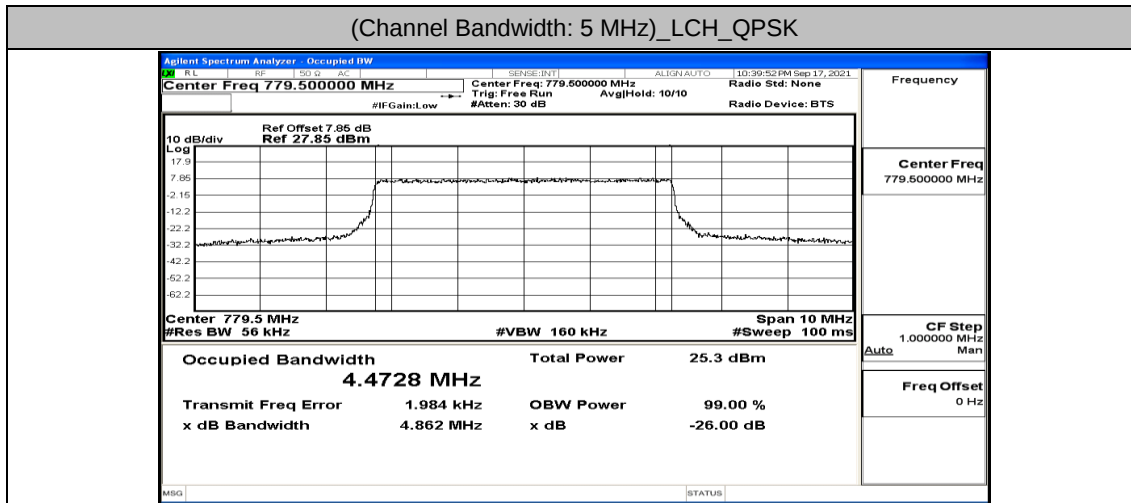
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	MCH	8.9417	9.491	PASS
16QAM	MCH	8.9254	9.495	PASS



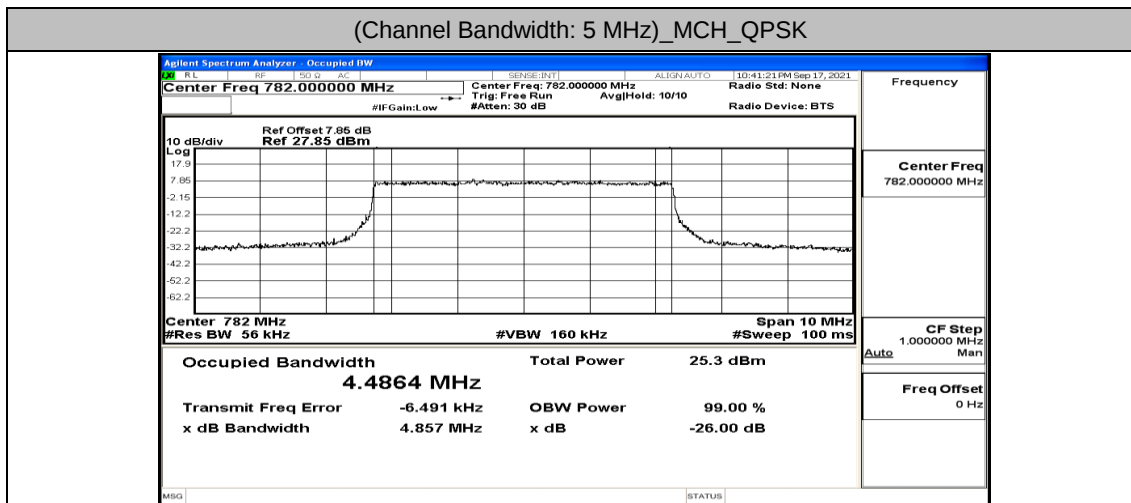
Test Graphs

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK

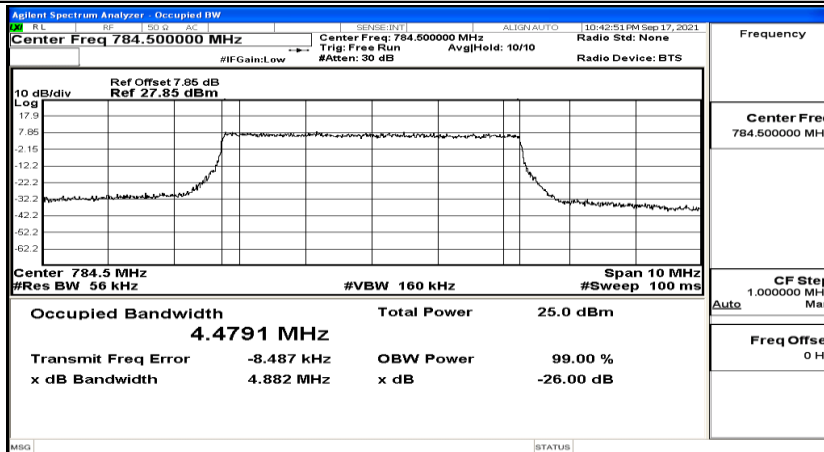


(Channel Bandwidth: 5 MHz)_MCH_QPSK

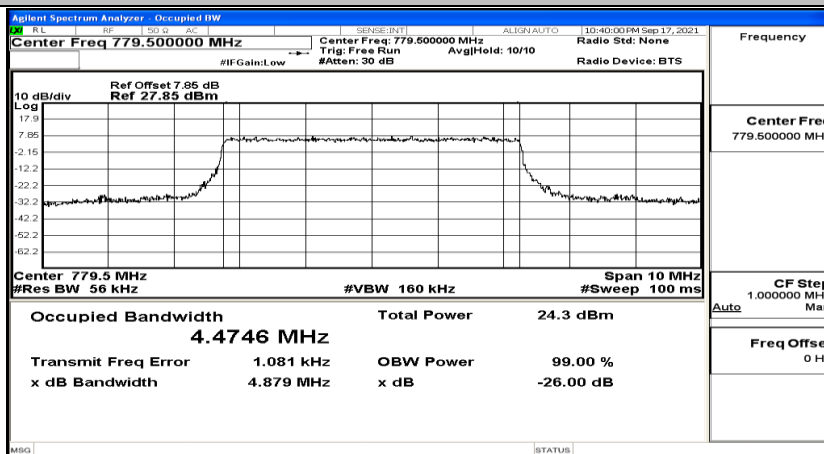




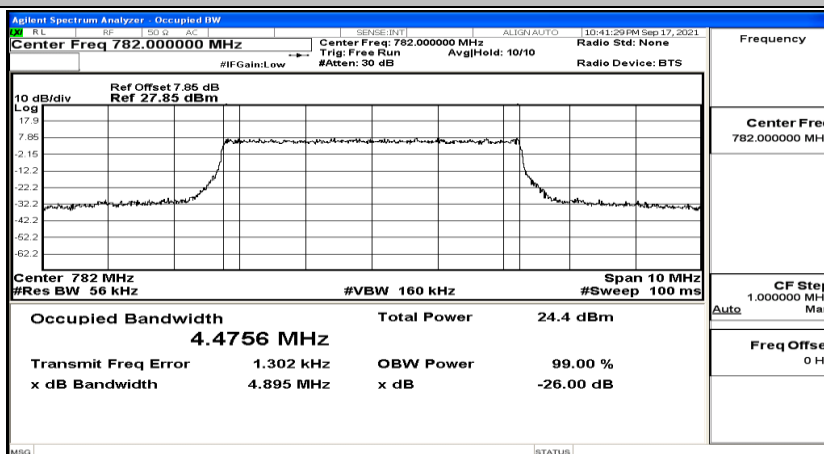
(Channel Bandwidth: 5 MHz)_HCH_QPSK



(Channel Bandwidth: 5 MHz)_LCH_16QAM

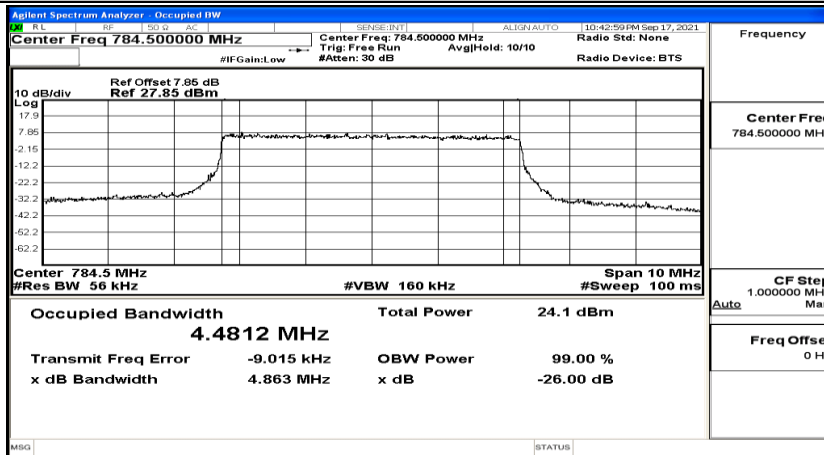


(Channel Bandwidth: 5 MHz)_MCH_16QAM



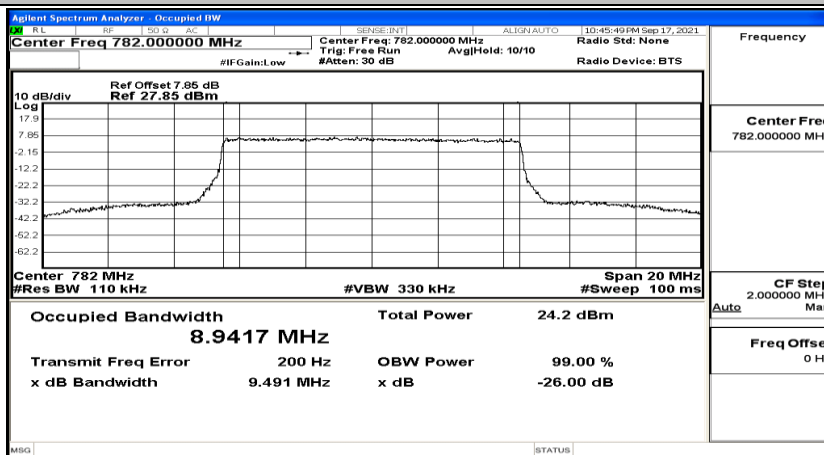


(Channel Bandwidth: 5 MHz)_HCH_16QAM



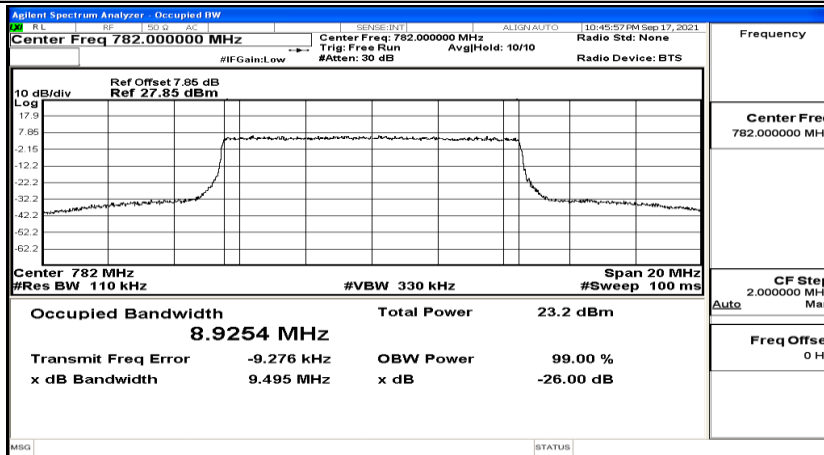
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_MCH_QPSK





Channel Bandwidth: 10 MHz_MCH_16QAM



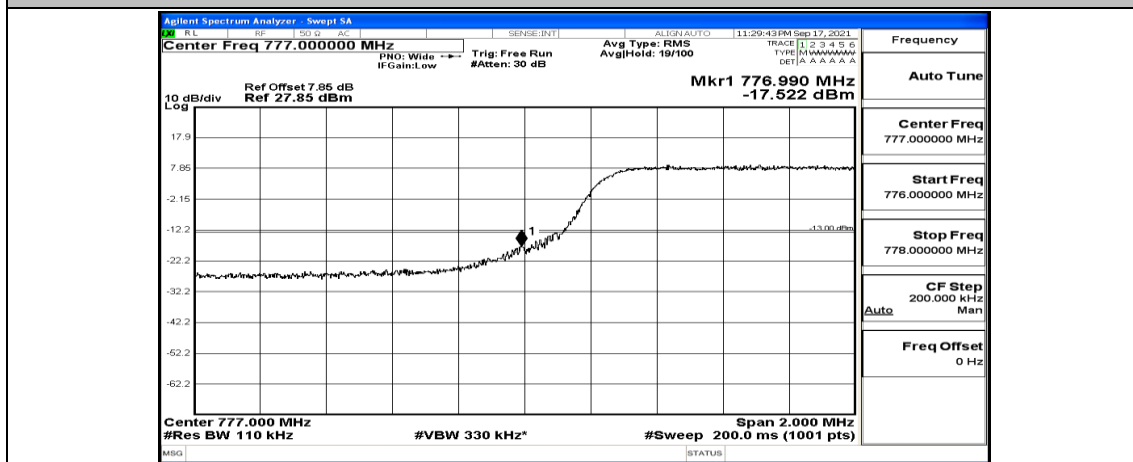


E.4 Band Edge

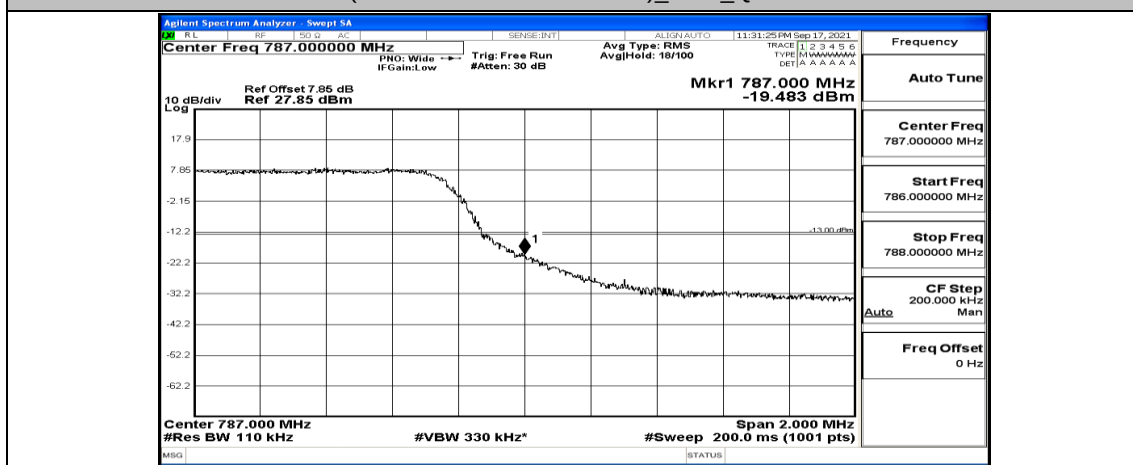
Test Graphs

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK

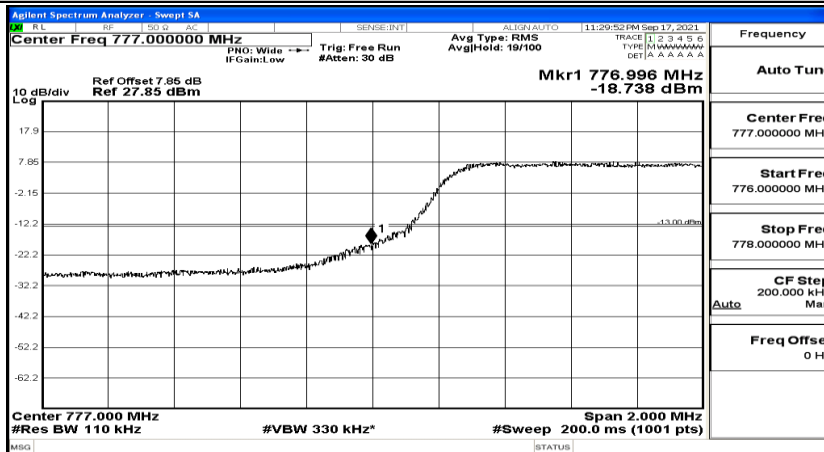


(Channel Bandwidth: 5 MHz)_HCH_QPSK

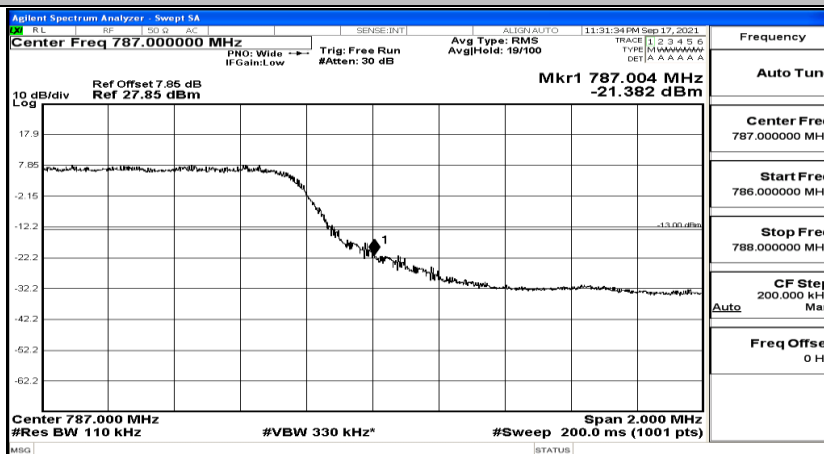




(Channel Bandwidth: 5 MHz)_LCH_16QAM

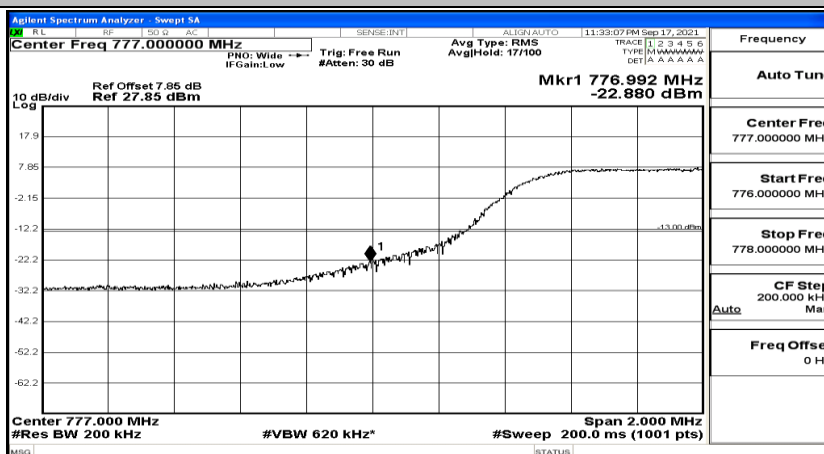


(Channel Bandwidth: 5 MHz)_HCH_16QAM



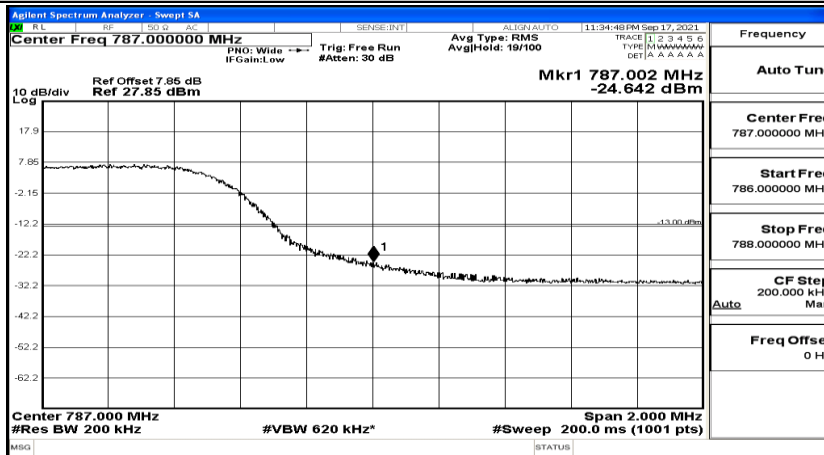
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK

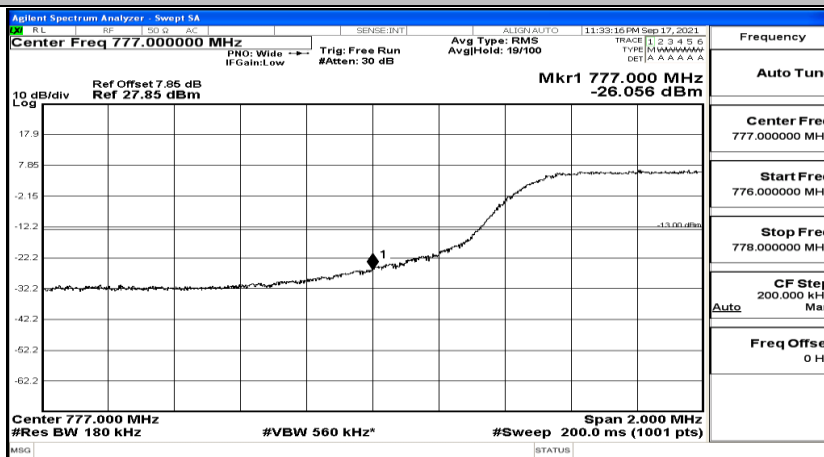




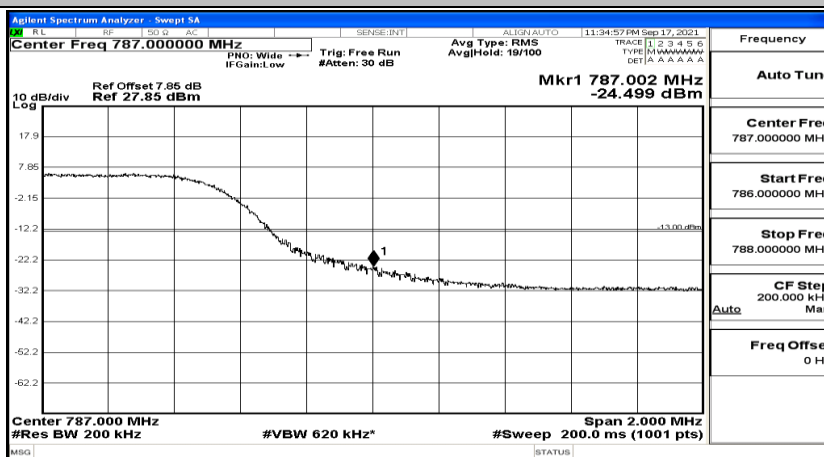
Channel Bandwidth: 10 MHz_HCH_QPSK



Channel Bandwidth: 10 MHz_LCH_16QAM



Channel Bandwidth: 10 MHz_HCH_16QAM



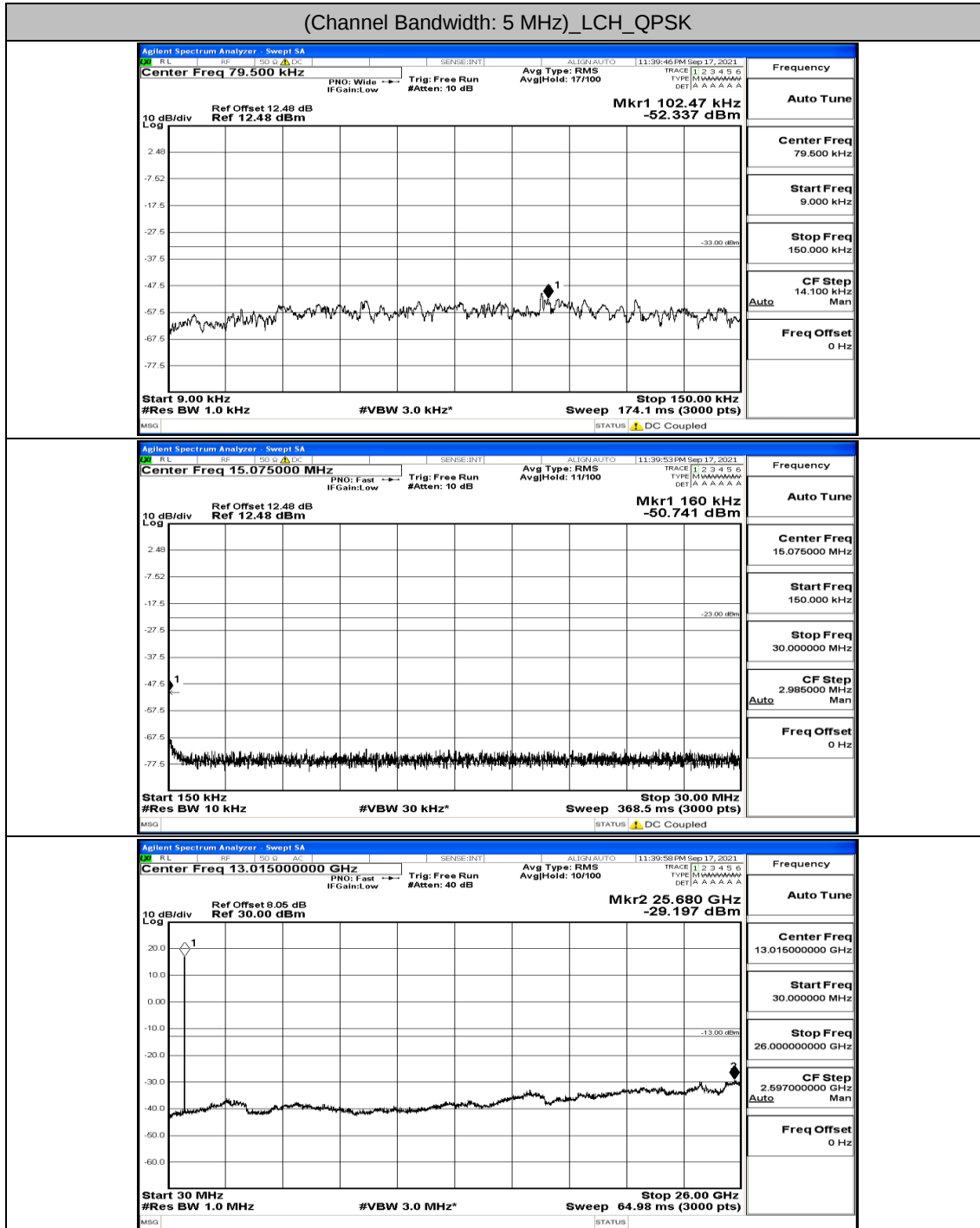


E.5 Conducted Spurious Emission

Test Graphs

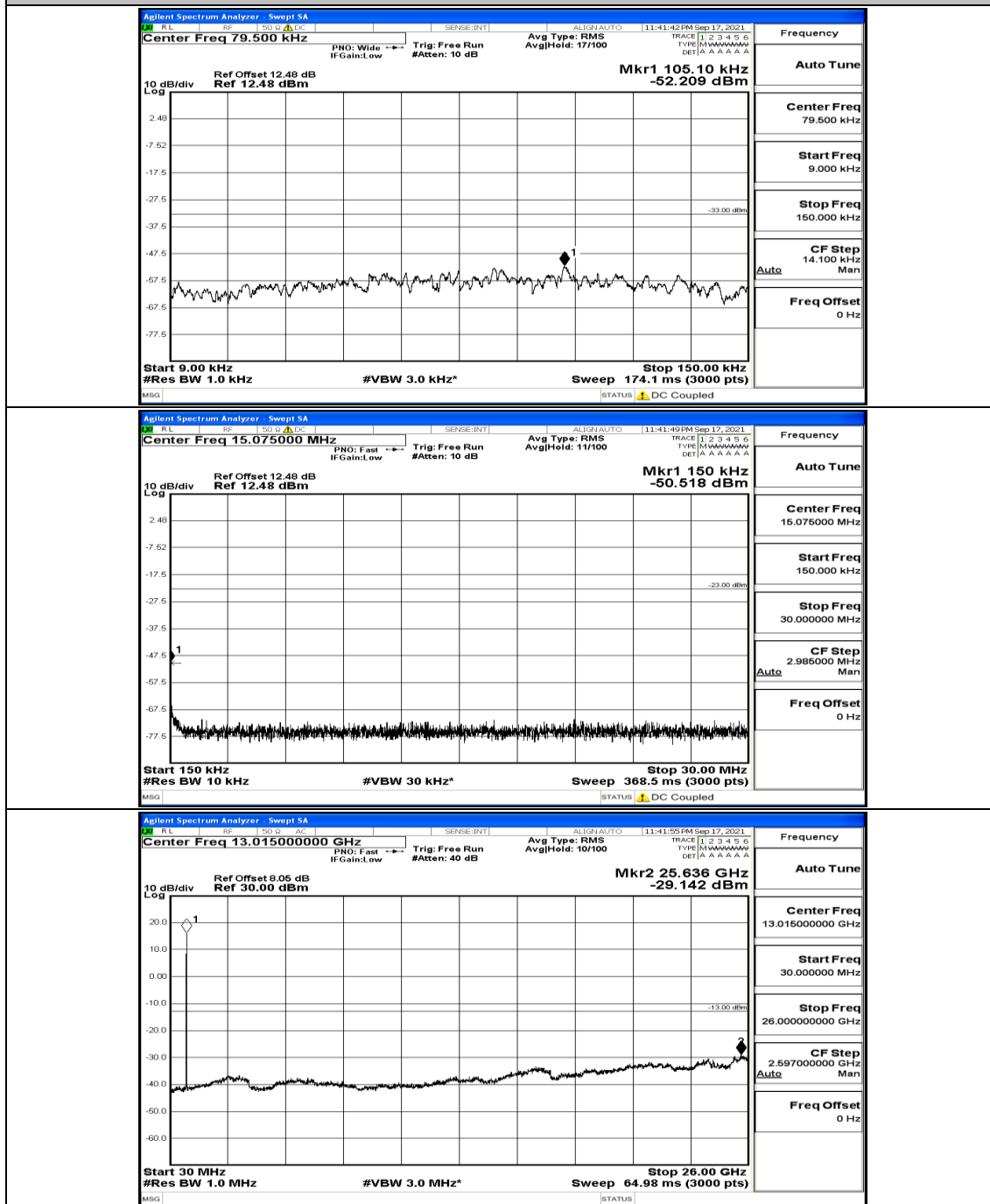
Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK



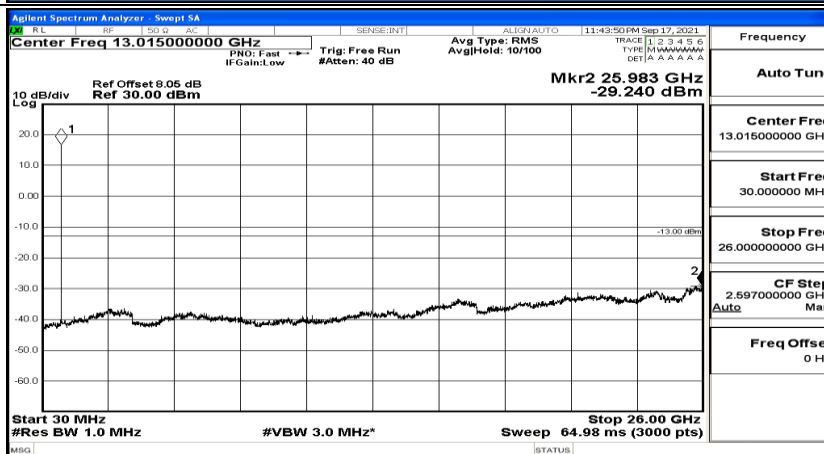
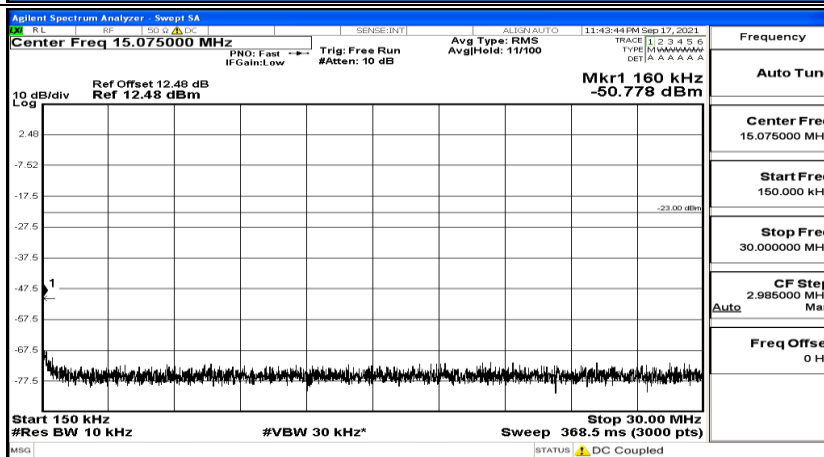
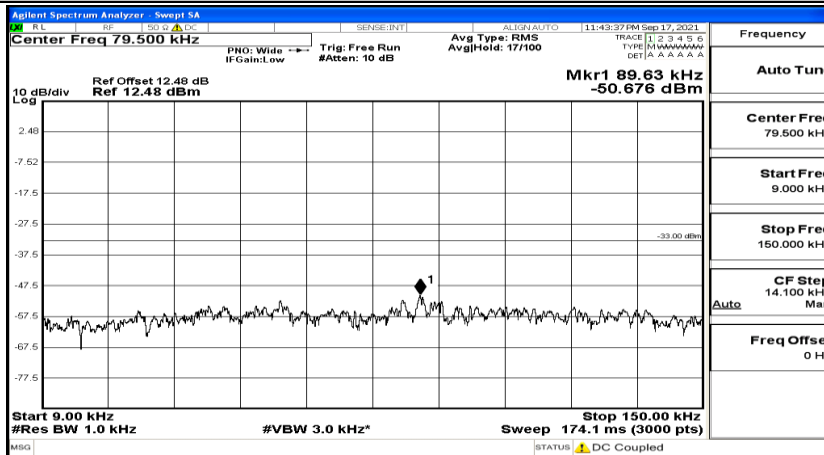


(Channel Bandwidth: 5 MHz)_MCH_QPSK



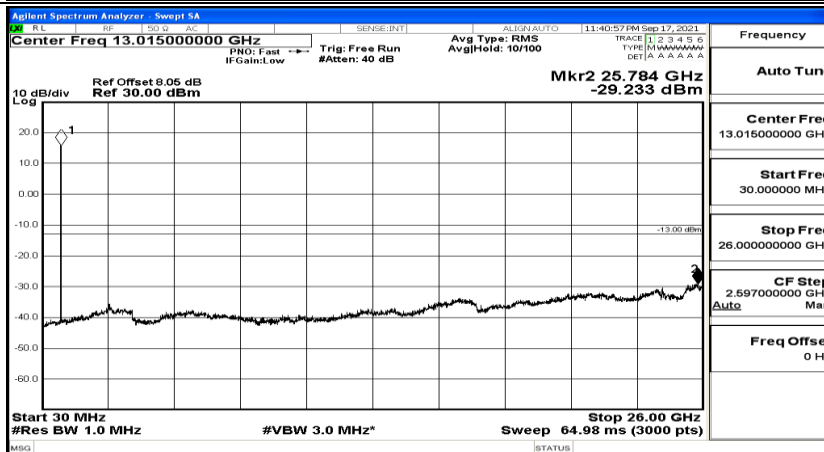
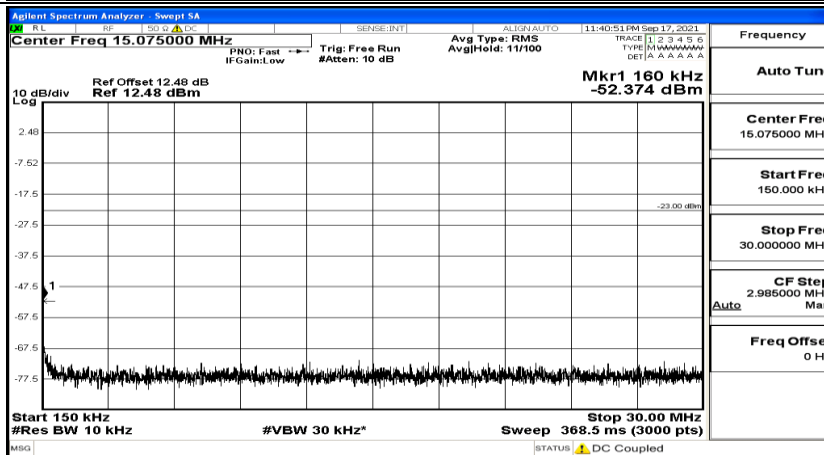
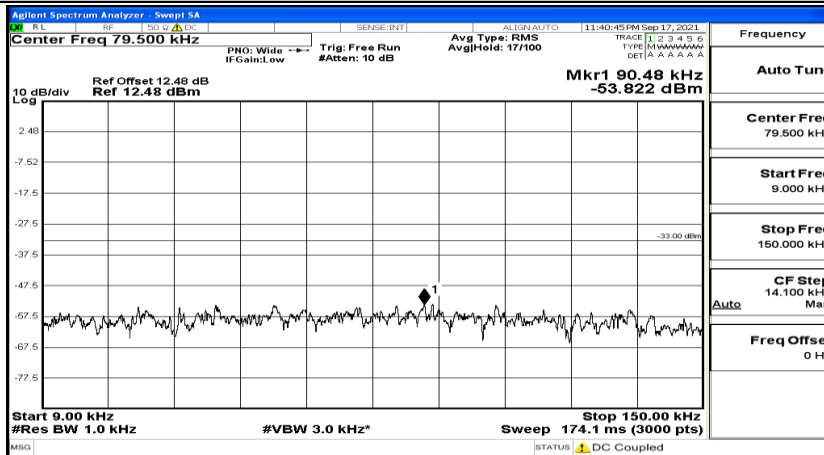


(Channel Bandwidth: 5 MHz)_HCH_QPSK



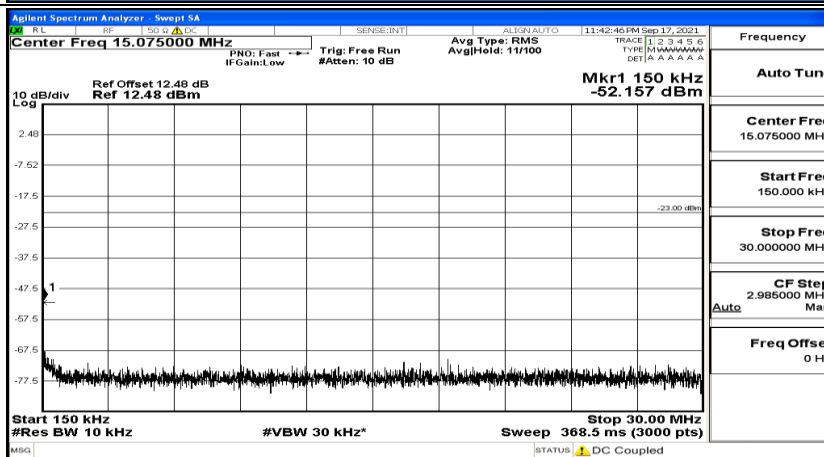
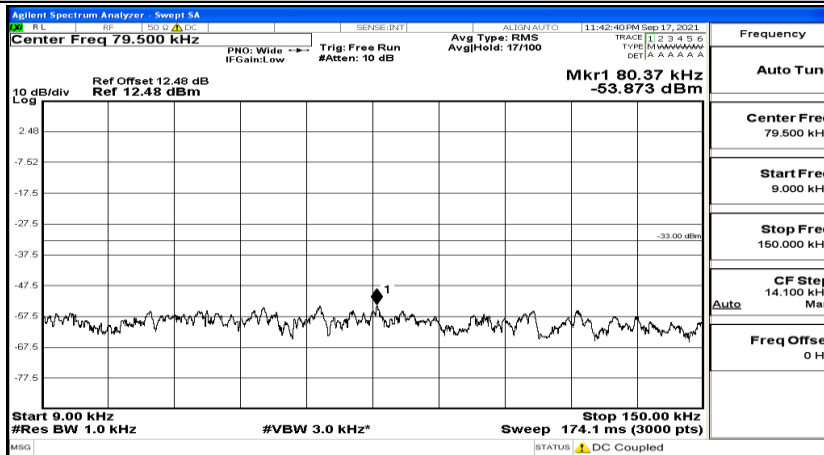


(Channel Bandwidth: 5 MHz)_LCH_16QAM



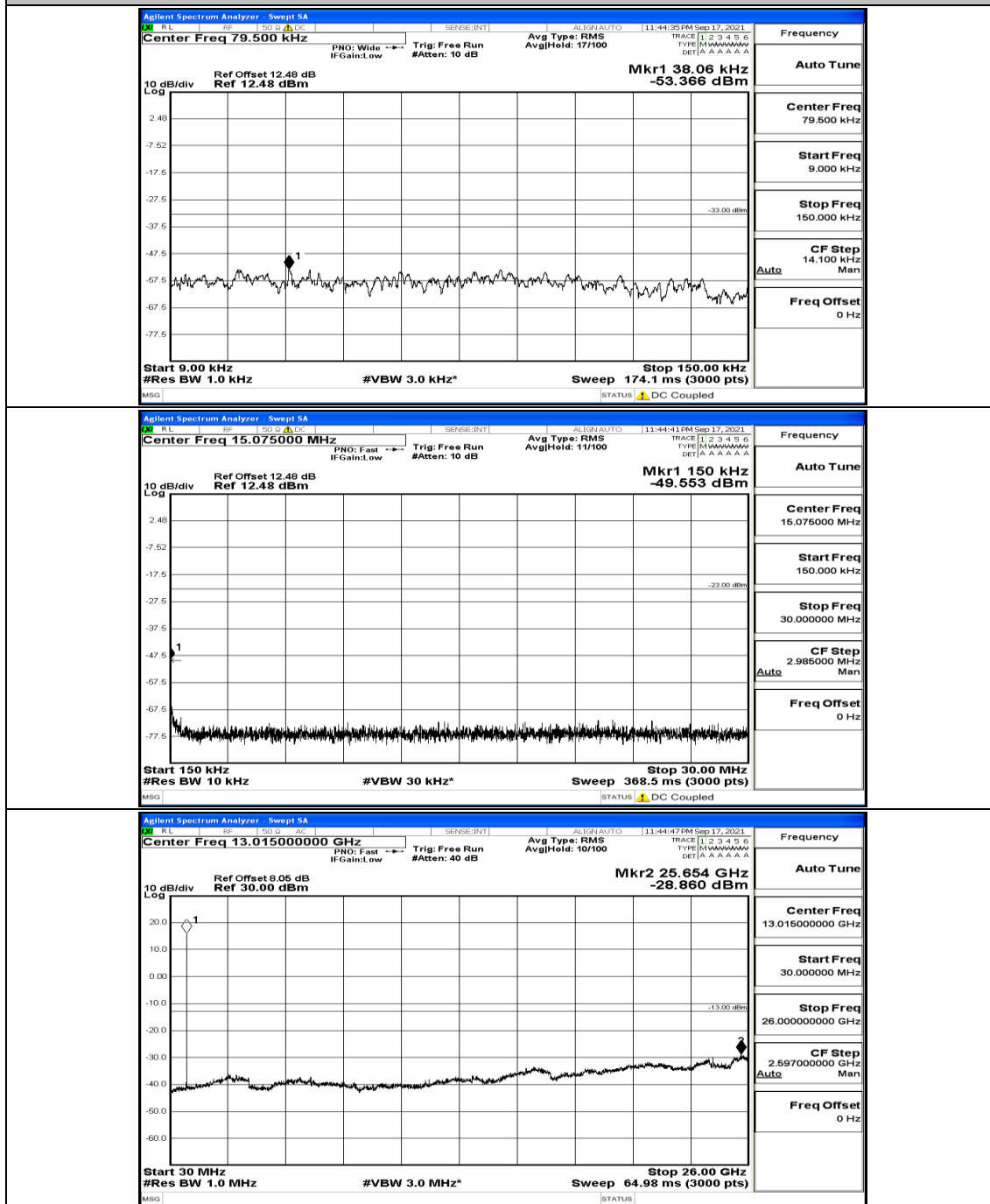


(Channel Bandwidth: 5 MHz)_MCH_16QAM





(Channel Bandwidth: 5 MHz)_HCH_16QAM





Channel Bandwidth: 10 MHz

