

Appendix H: Test Data for E-UTRA Band 12

Product Name: 4G Smart Phone

Trade Mark: Smooth

Test Model: Smooth 6.26

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

H.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.44	22.83	PASS
		1	3	23.48	22.96	PASS
		1	5	23.39	22.86	PASS
		3	0	23.46	22.30	PASS
		3	2	23.49	22.20	PASS
		3	3	23.45	22.22	PASS
		6	0	22.26	21.25	PASS
	MCH	1	0	24.34	23.41	PASS
		1	3	24.54	23.59	PASS
		1	5	24.48	23.43	PASS
		3	0	24.44	23.51	PASS
		3	2	24.75	23.68	PASS
		3	3	24.63	23.60	PASS
		6	0	23.88	23.14	PASS
	HCH	1	0	23.67	23.20	PASS
		1	3	23.78	23.13	PASS
		1	5	23.76	22.98	PASS
		3	0	23.70	22.78	PASS
		3	2	23.83	22.87	PASS
		3	3	23.81	22.79	PASS
		6	0	23.06	22.17	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.28	22.76	PASS
		1	7	23.42	22.95	PASS
		1	14	24.03	23.52	PASS
		8	0	22.44	21.56	PASS
		8	4	22.71	21.75	PASS
		8	7	22.84	21.68	PASS
		15	0	22.72	21.81	PASS
	MCH	1	0	24.54	24.21	PASS
		1	7	24.91	23.91	PASS
		1	14	24.72	23.98	PASS
		8	0	23.84	22.74	PASS
		8	4	23.91	22.97	PASS
		8	7	23.80	22.64	PASS
		15	0	23.81	22.89	PASS
	HCH	1	0	24.43	23.32	PASS
		1	7	24.24	23.32	PASS
		1	14	24.08	23.22	PASS
		8	0	23.37	22.25	PASS
		8	4	23.21	22.20	PASS
		8	7	23.09	22.06	PASS
		15	0	23.13	22.30	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.32	22.23	PASS
		1	12	24.20	22.84	PASS
		1	24	24.40	23.01	PASS
		12	0	22.67	21.74	PASS
		12	6	22.84	21.88	PASS
		12	13	23.24	22.23	PASS
		25	0	22.94	22.05	PASS
	MCH	1	0	24.66	23.57	PASS
		1	12	24.95	23.37	PASS
		1	24	24.69	23.66	PASS
		12	0	23.79	22.86	PASS
		12	6	23.78	22.87	PASS
		12	13	23.75	22.93	PASS
		25	0	23.76	23.02	PASS
	HCH	1	0	24.71	23.24	PASS
		1	12	24.42	23.04	PASS
		1	24	24.01	22.43	PASS
		12	0	23.48	22.55	PASS
		12	6	23.33	22.24	PASS
		12	13	23.08	21.96	PASS
		25	0	23.27	22.40	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.32	22.65	PASS
		1	24	24.42	24.36	PASS
		1	49	24.76	24.27	PASS
		25	0	22.90	21.93	PASS
		25	12	23.48	22.53	PASS
		25	25	23.80	22.77	PASS
		50	0	23.27	22.36	PASS
	MCH	1	0	24.00	23.44	PASS
		1	24	24.74	24.19	PASS
		1	49	24.27	23.63	PASS
		25	0	23.67	22.55	PASS
		25	12	23.76	22.70	PASS
		25	25	23.88	22.66	PASS
		50	0	23.64	22.74	PASS
	HCH	1	0	24.54	23.32	PASS
		1	24	24.45	23.17	PASS
		1	49	23.71	22.71	PASS
		25	0	23.89	22.97	PASS
		25	12	23.64	22.77	PASS
		25	25	23.48	22.57	PASS
		50	0	23.60	22.81	PASS

H.2 Peak-to-Average Ratio

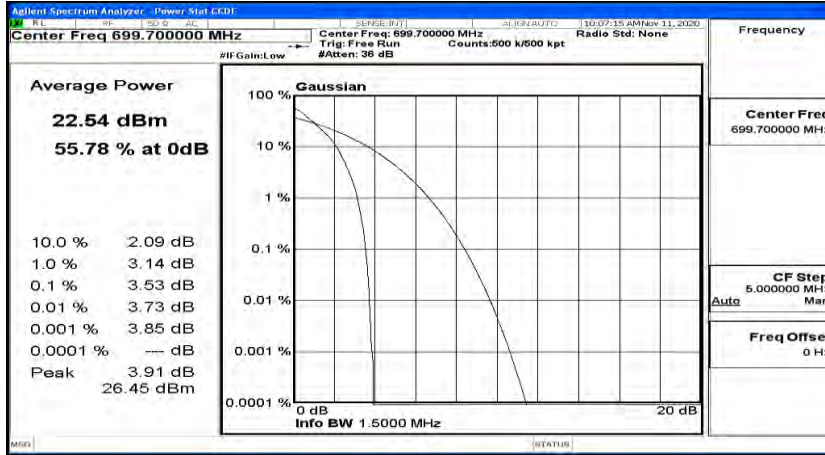
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	3.53	<13	PASS
	MCH	4.4	<13	PASS
	HCH	4.17	<13	PASS
16QAM	LCH	4.45	<13	PASS
	MCH	5.16	<13	PASS
	HCH	4.97	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.02	<13	PASS
	MCH	4.57	<13	PASS
	HCH	4.08	<13	PASS
16QAM	LCH	4.79	<13	PASS
	MCH	5.34	<13	PASS
	HCH	4.84	<13	PASS

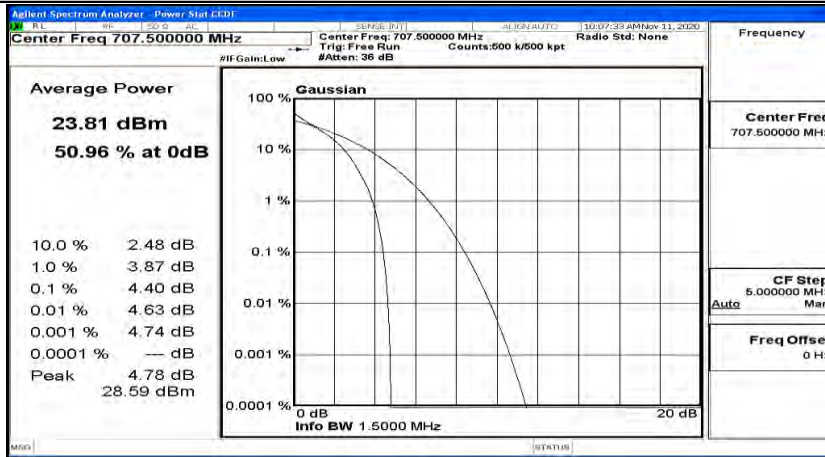
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.18	<13	PASS
	MCH	4.43	<13	PASS
	HCH	3.95	<13	PASS
16QAM	LCH	4.83	<13	PASS
	MCH	5.27	<13	PASS
	HCH	4.61	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.52	<13	PASS
	MCH	4.42	<13	PASS
	HCH	4.2	<13	PASS
16QAM	LCH	5.37	<13	PASS
	MCH	5.24	<13	PASS
	HCH	5.03	<13	PASS

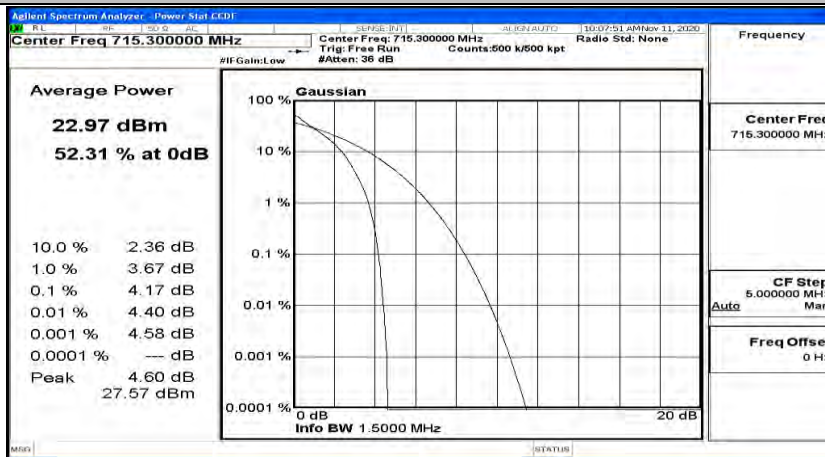
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



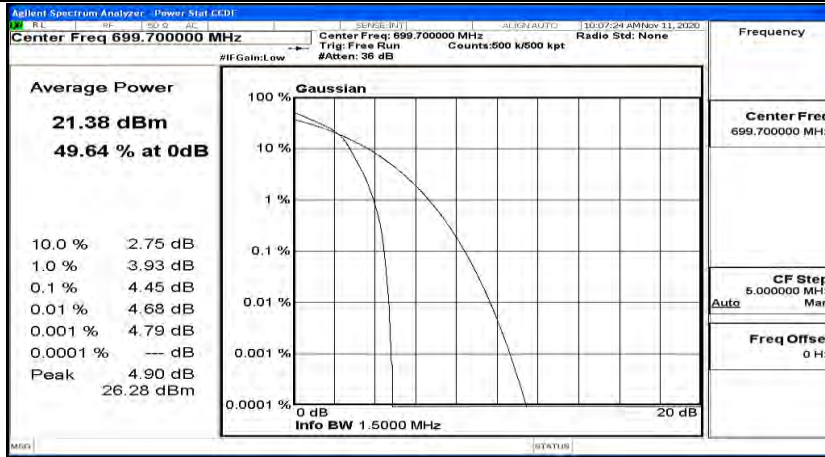
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



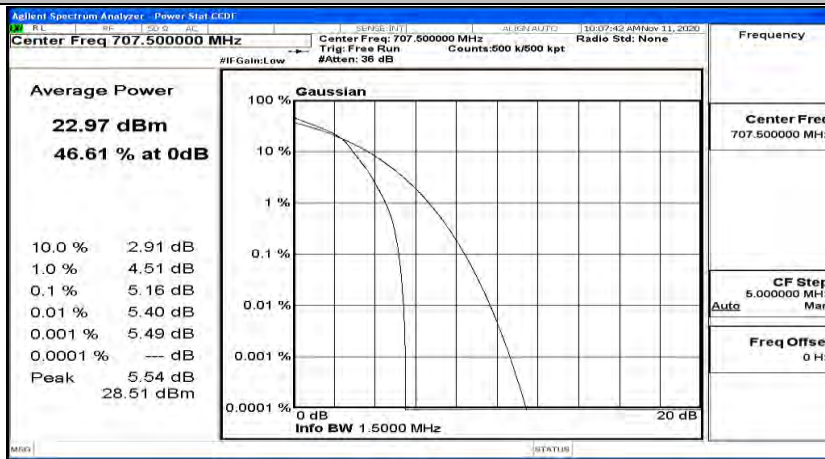
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



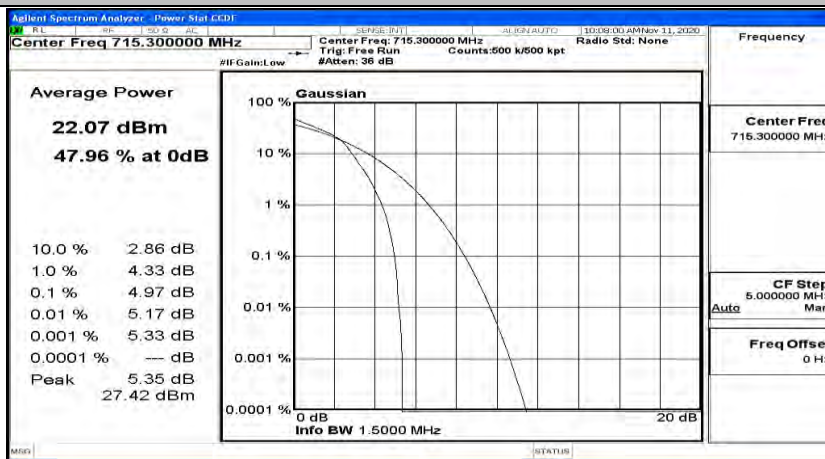
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



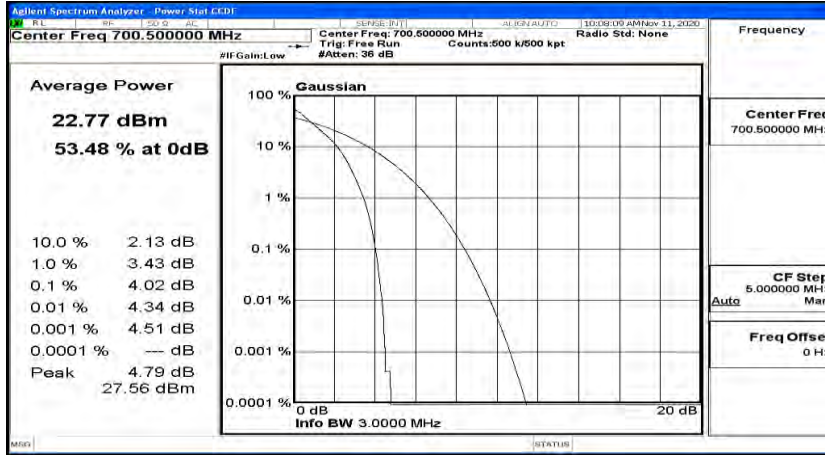
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



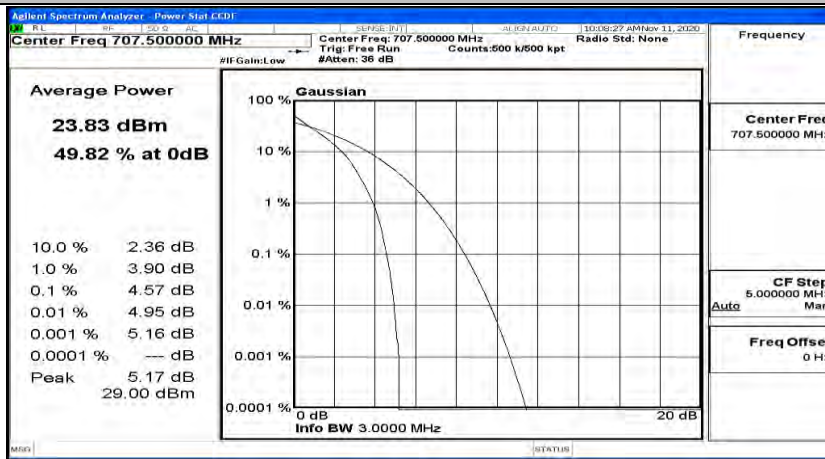
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



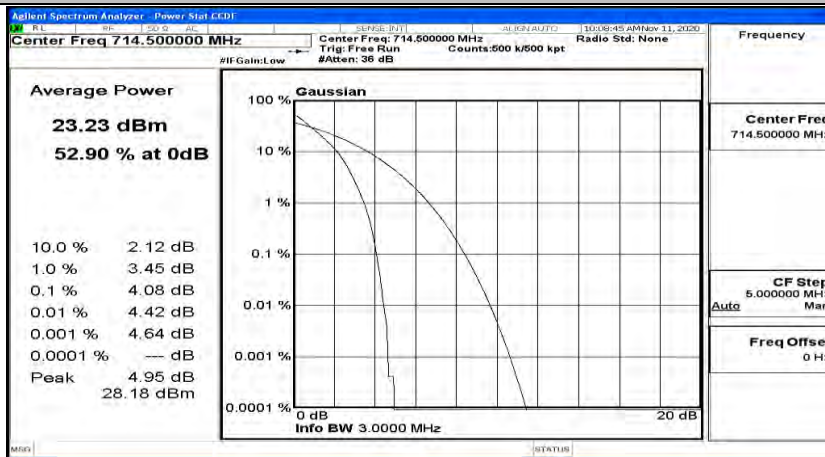
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



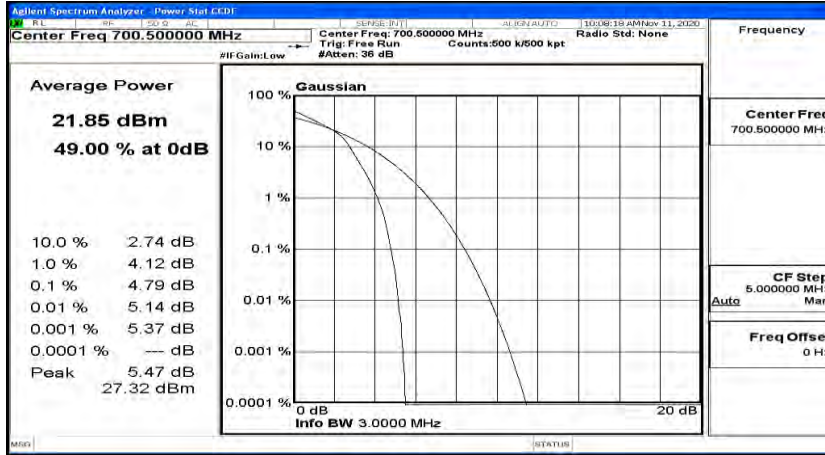
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



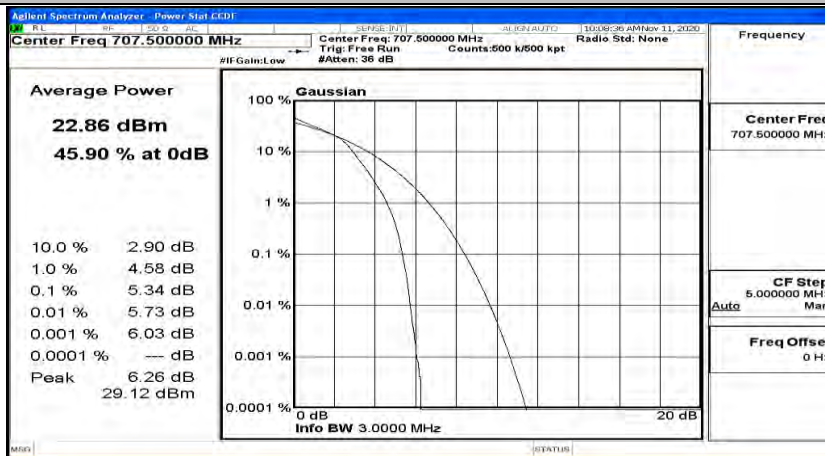
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



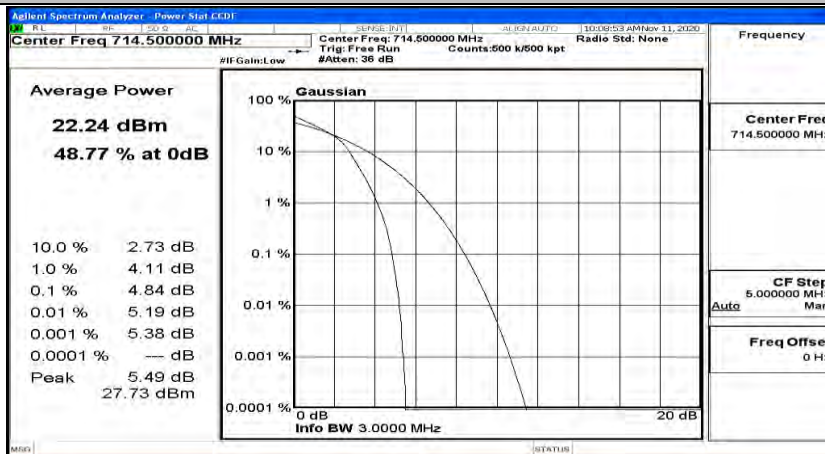
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



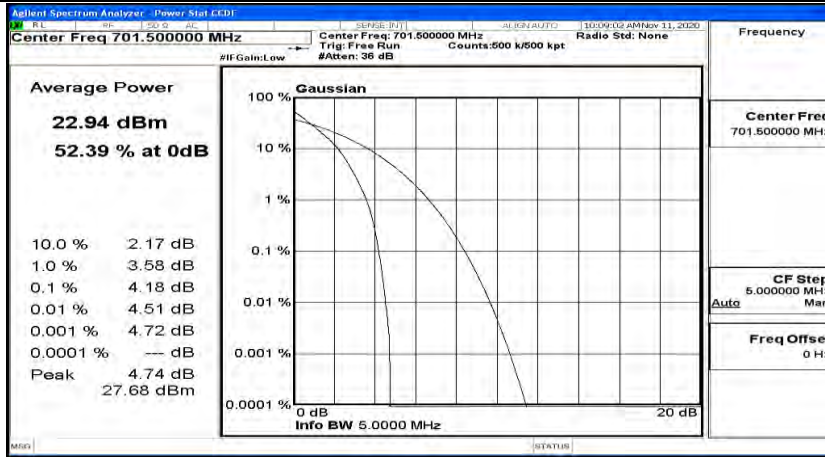
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



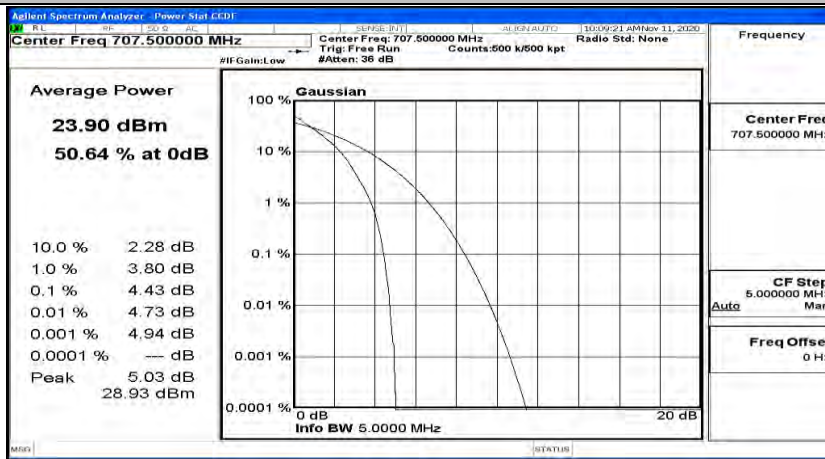
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



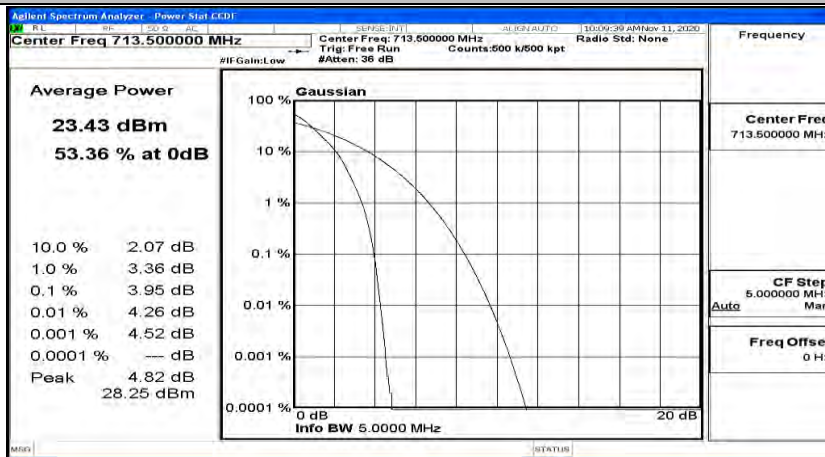
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



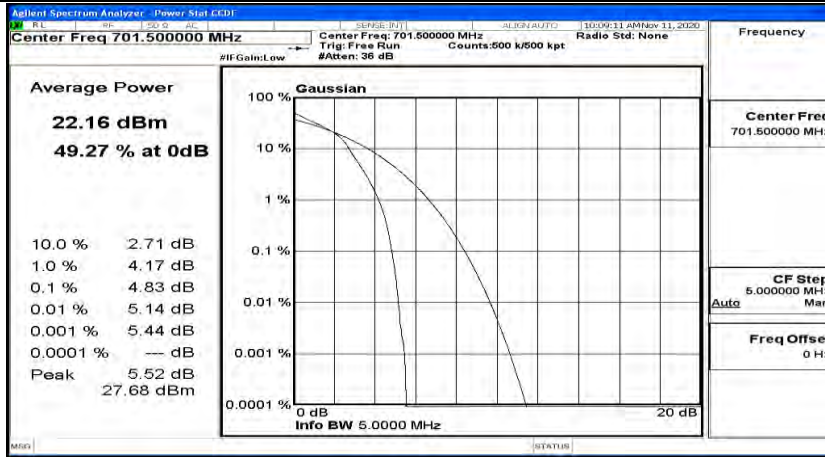
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



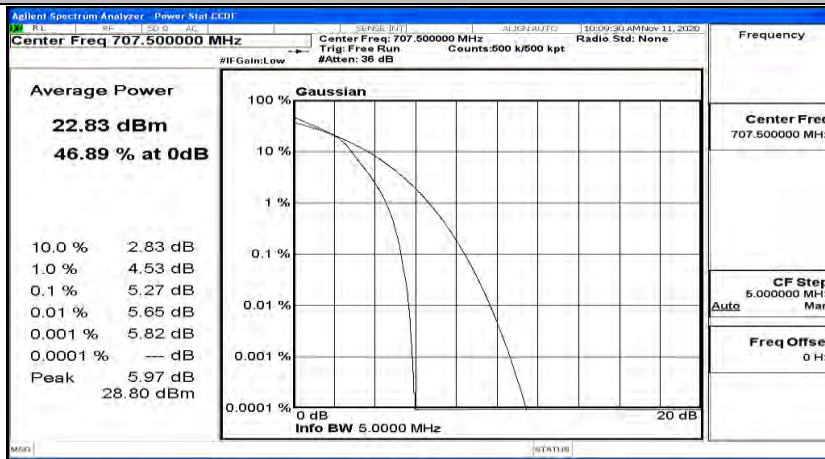
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



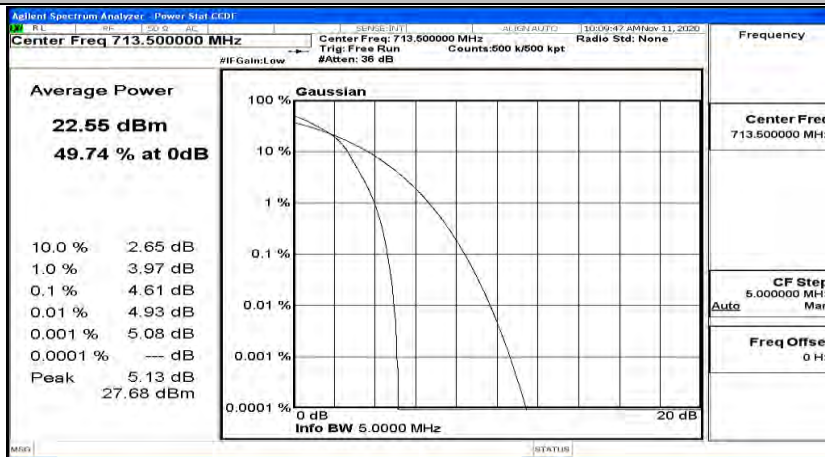
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



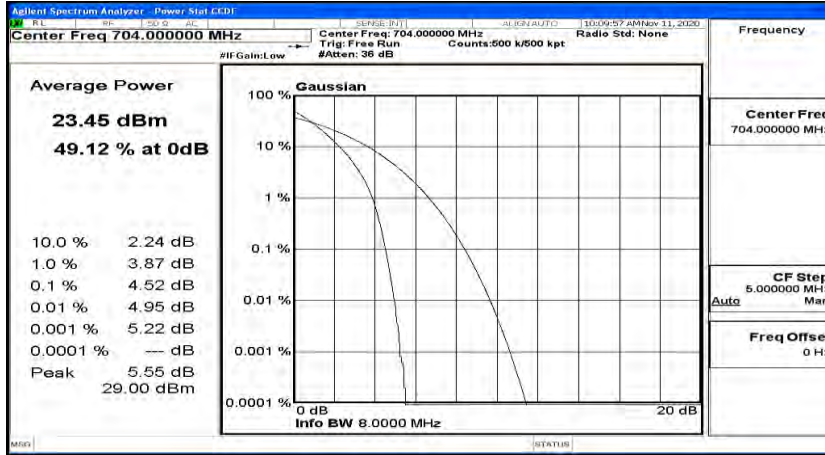
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



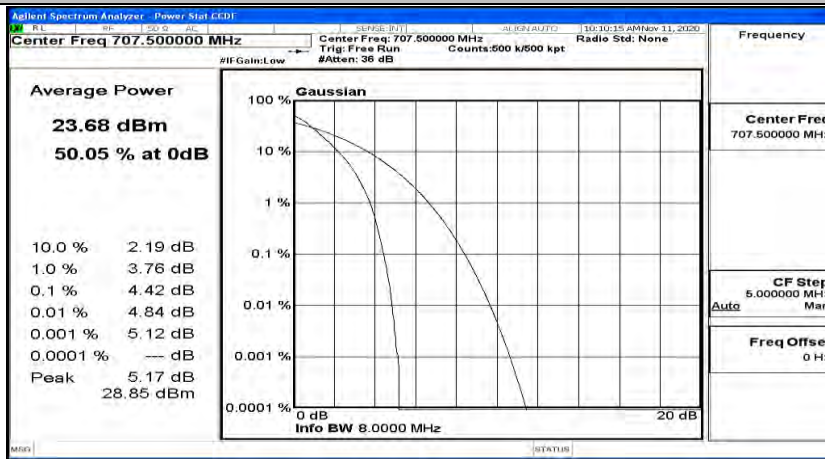
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



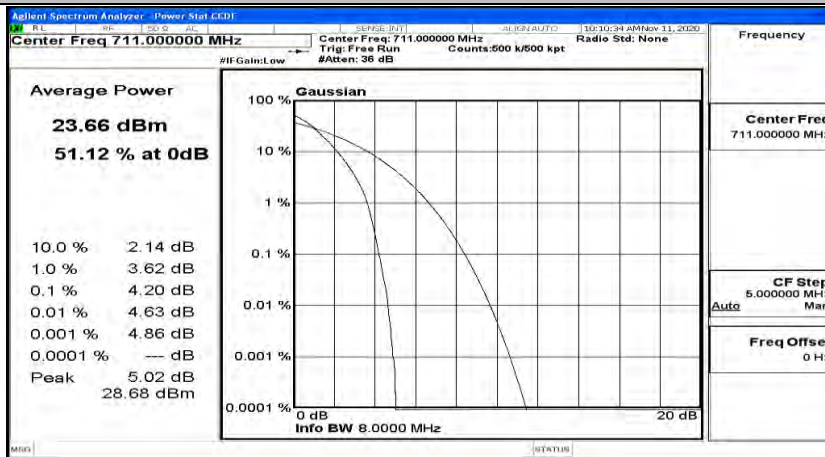
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _LCH_QPSK



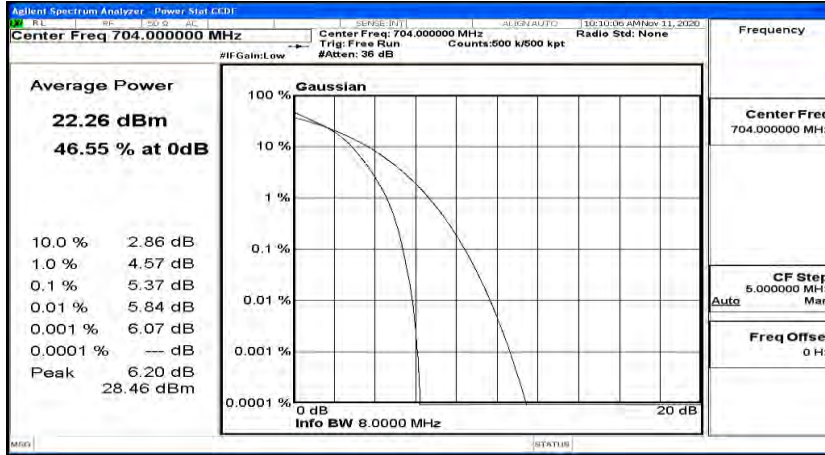
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _MCH_QPSK



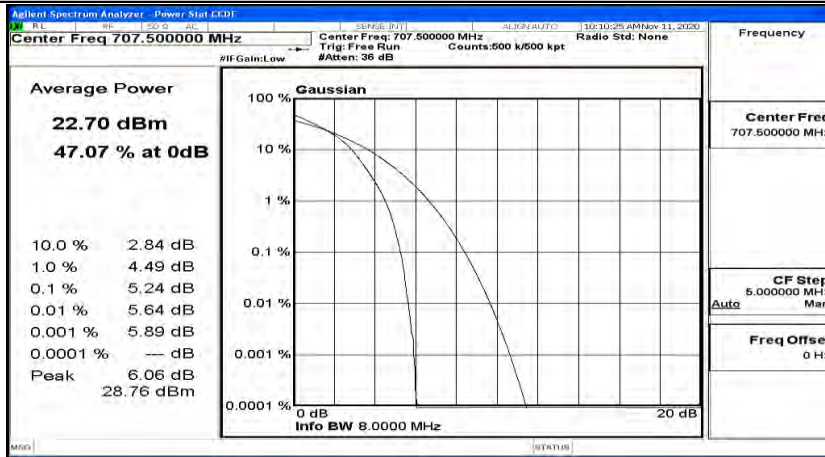
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _HCH_QPSK



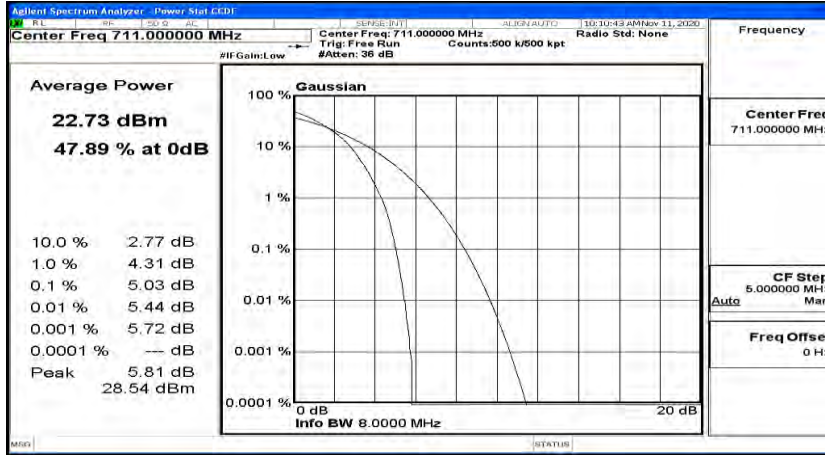
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



H.3 26dB Bandwidth and Occupied Bandwidth

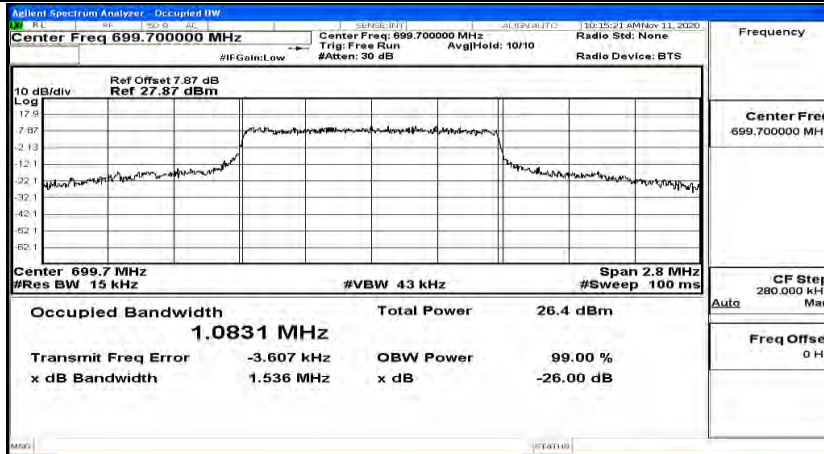
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0831	1.536	PASS
	MCH	1.0787	1.226	PASS
	HCH	1.0786	1.242	PASS
16QAM	LCH	1.0827	1.391	PASS
	MCH	1.0789	1.221	PASS
	HCH	1.0827	1.252	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6891	3.058	PASS
	MCH	2.6833	2.907	PASS
	HCH	2.6884	2.989	PASS
16QAM	LCH	2.6916	2.941	PASS
	MCH	2.6893	2.907	PASS
	HCH	2.6867	2.913	PASS

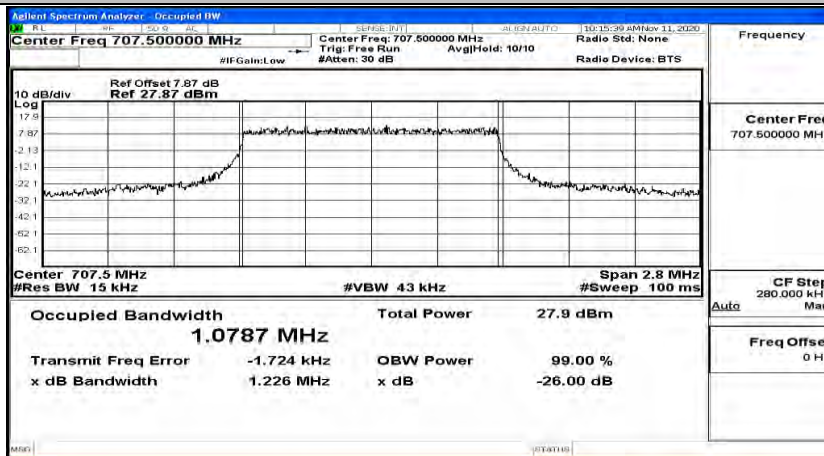
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4873	4.893	PASS
	MCH	4.4658	4.834	PASS
	HCH	4.4896	5.065	PASS
16QAM	LCH	4.4877	4.885	PASS
	MCH	4.4748	4.767	PASS
	HCH	4.4826	4.939	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9347	9.594	PASS
	MCH	8.9095	9.451	PASS
	HCH	8.9095	9.481	PASS
16QAM	LCH	8.9364	9.526	PASS
	MCH	8.9125	9.409	PASS
	HCH	8.8950	9.539	PASS

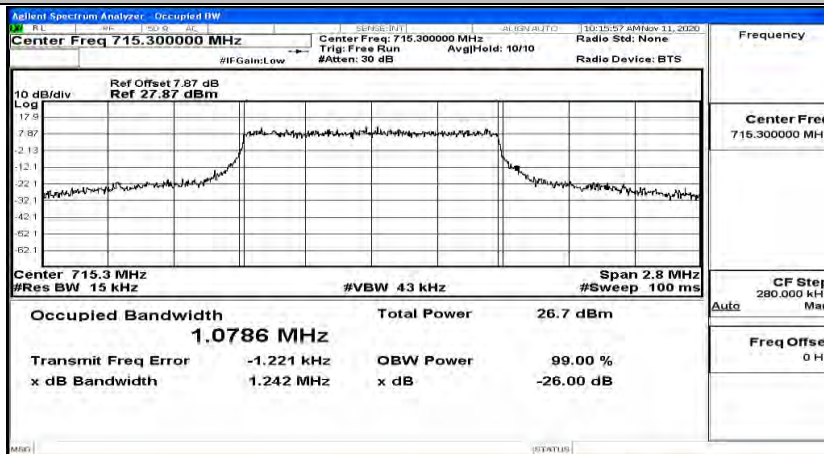
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



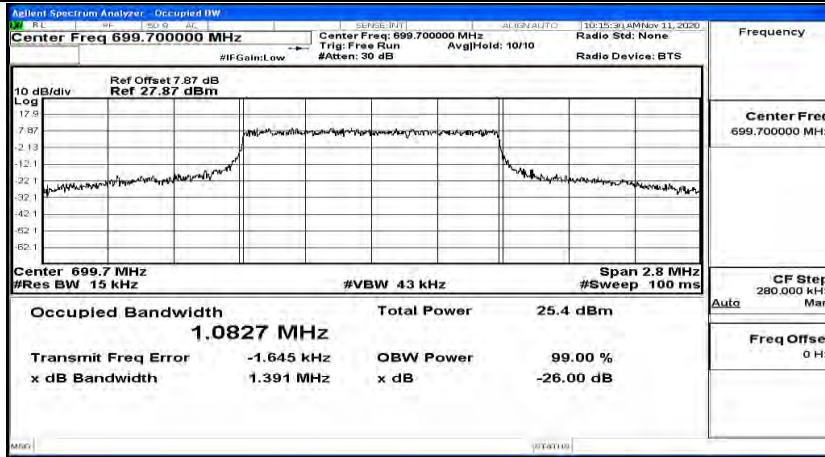
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



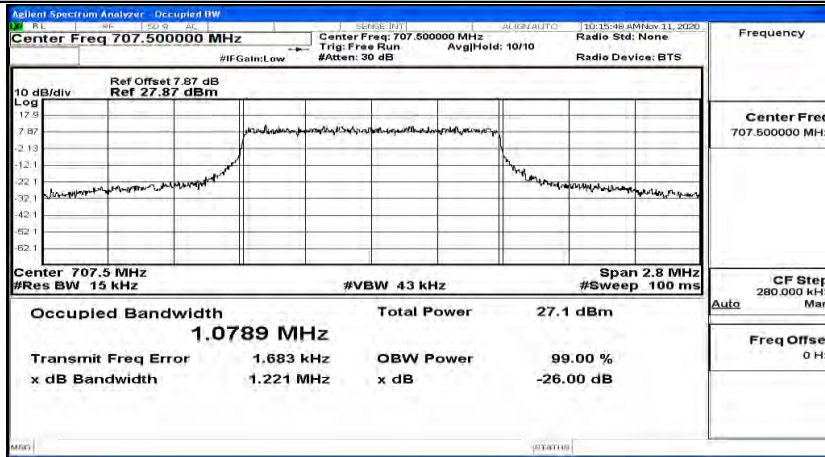
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



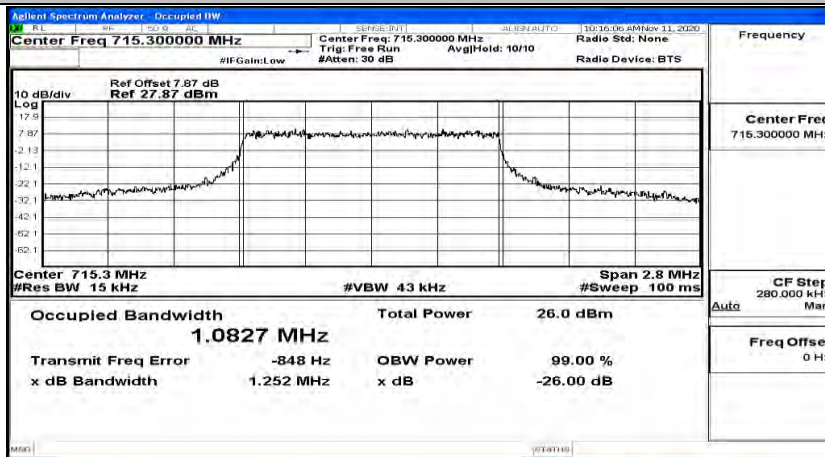
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz) LCH_16QAM



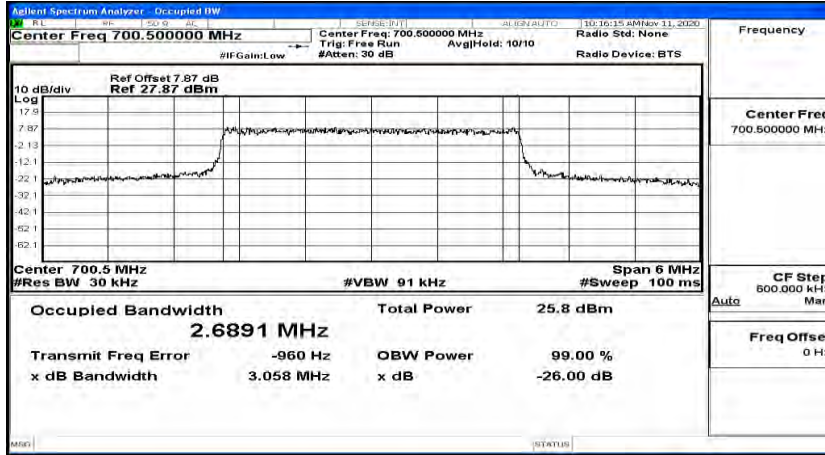
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz) MCH_16QAM



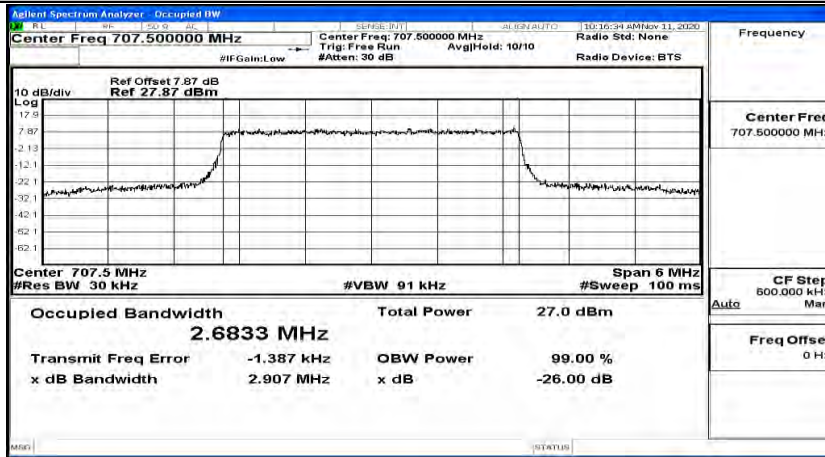
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz) HCH_16QAM



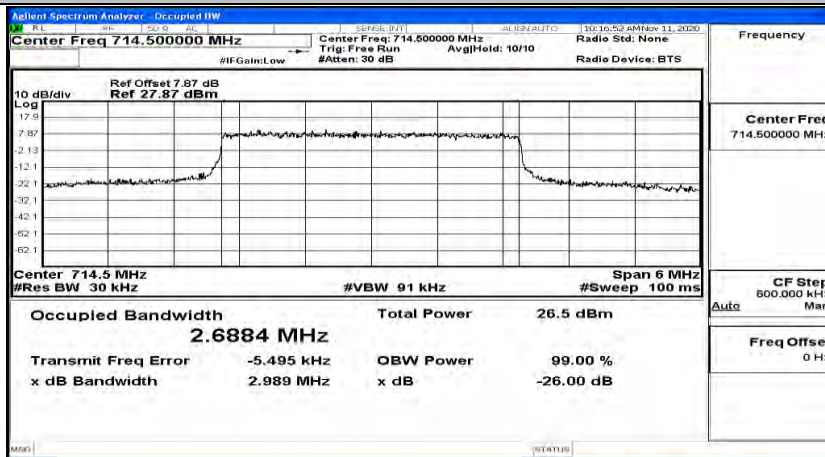
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



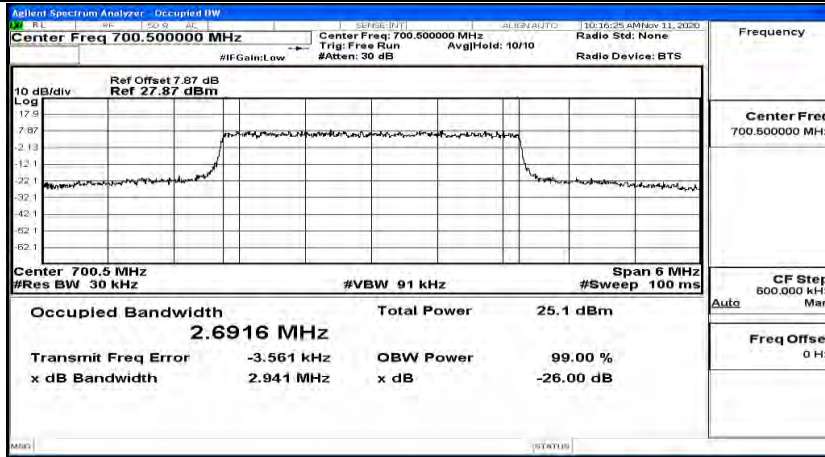
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



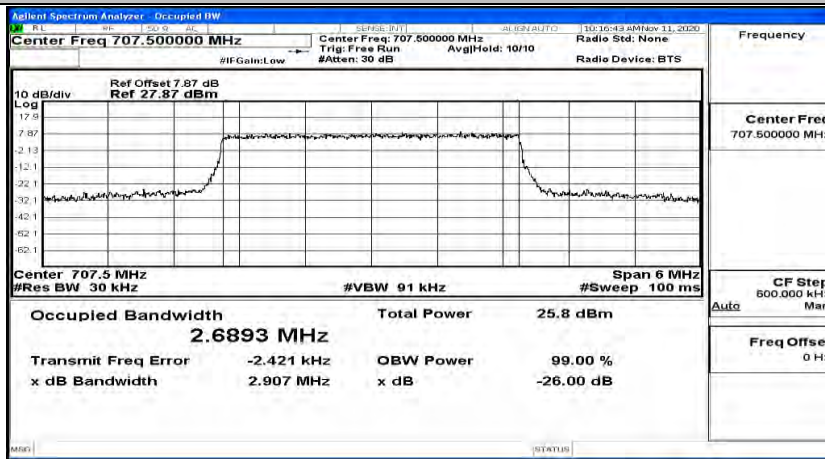
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



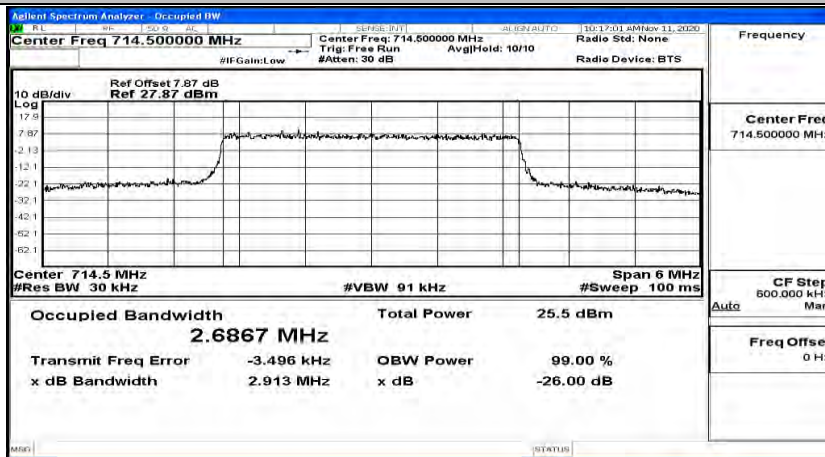
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



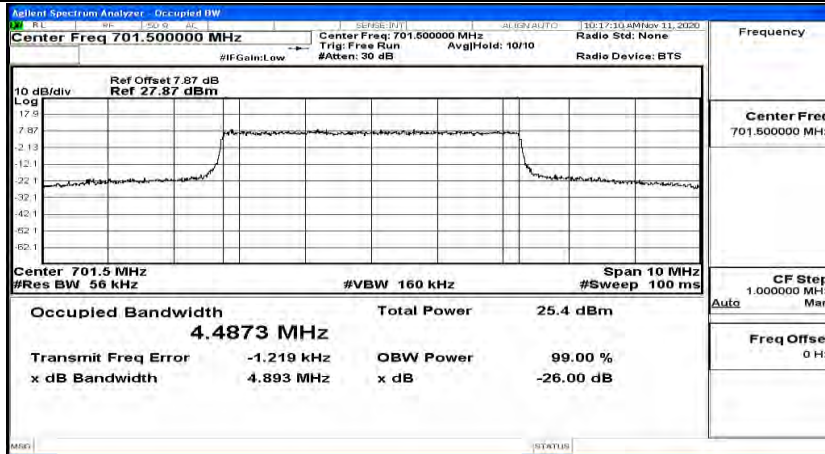
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



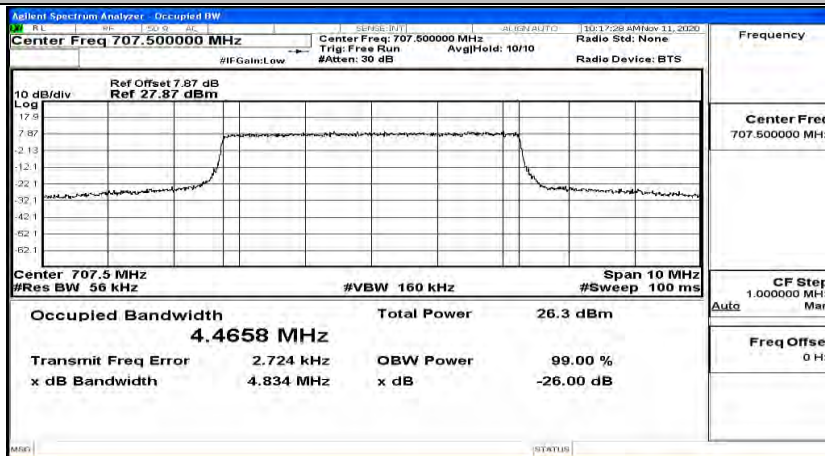
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



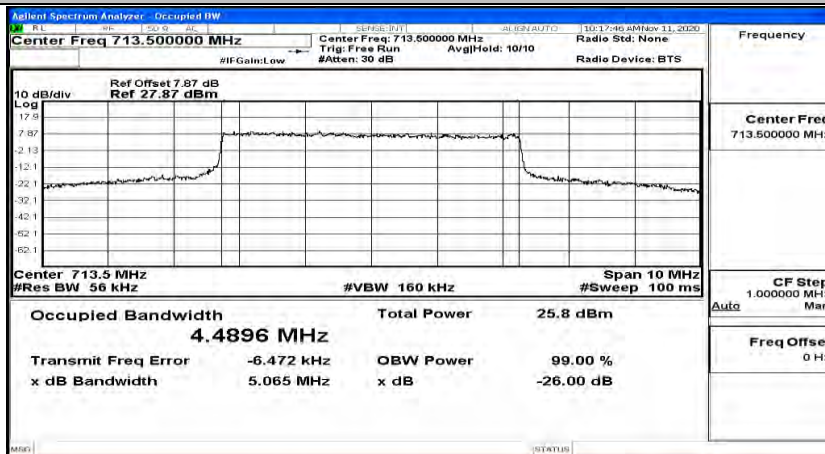
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



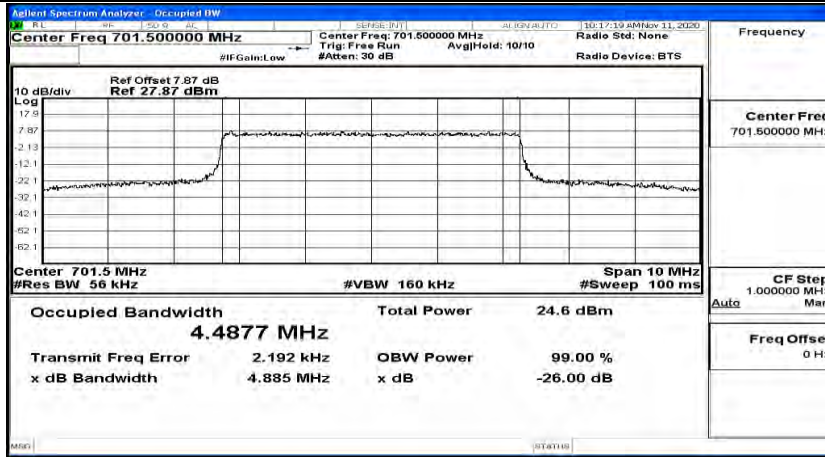
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



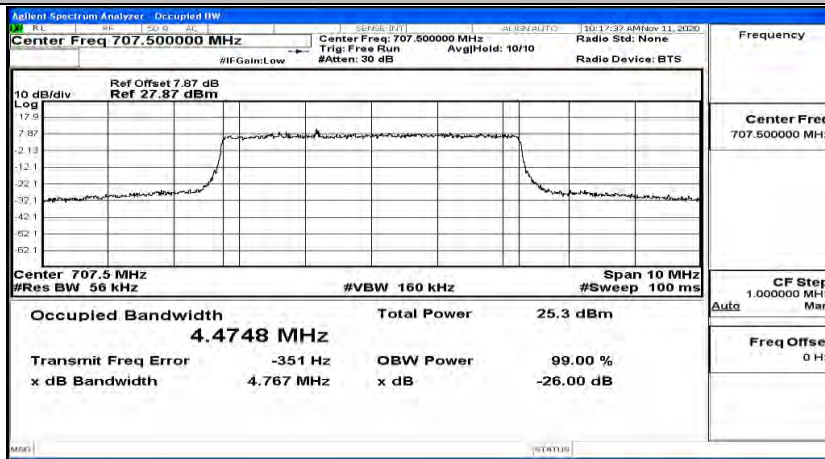
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



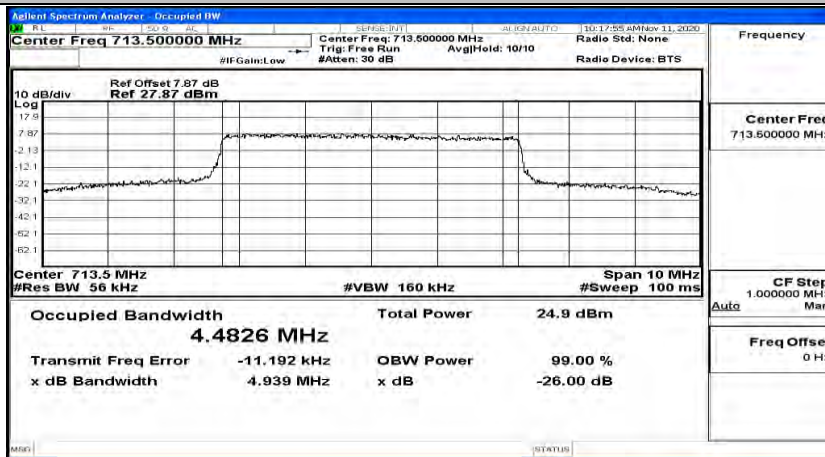
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



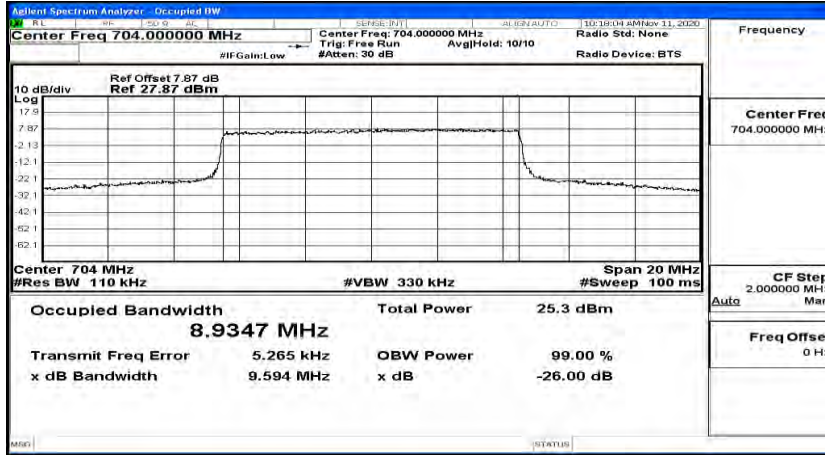
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



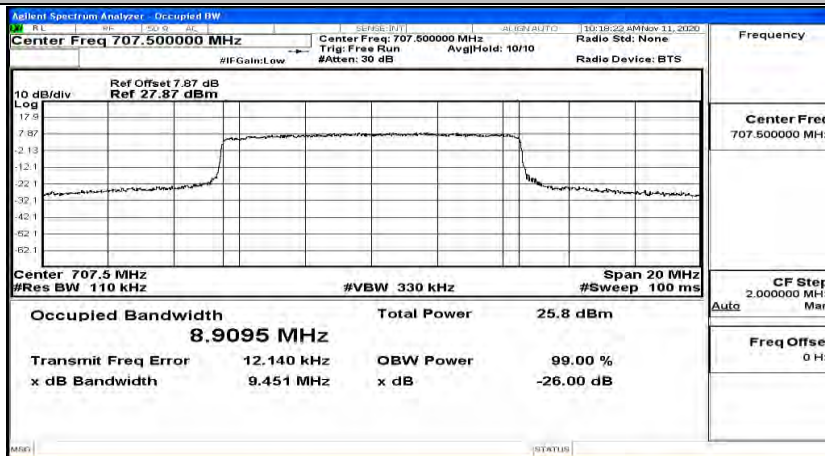
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



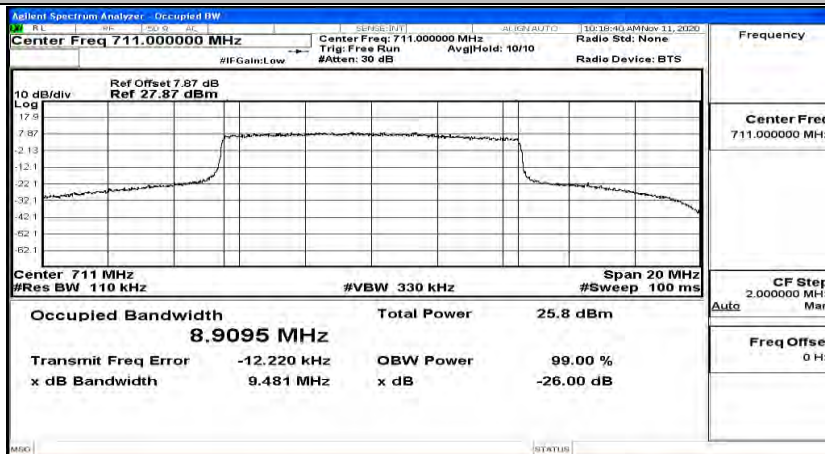
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



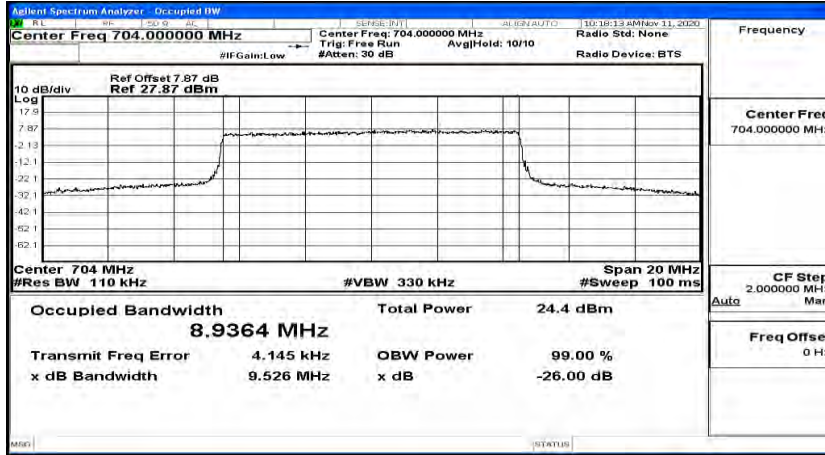
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



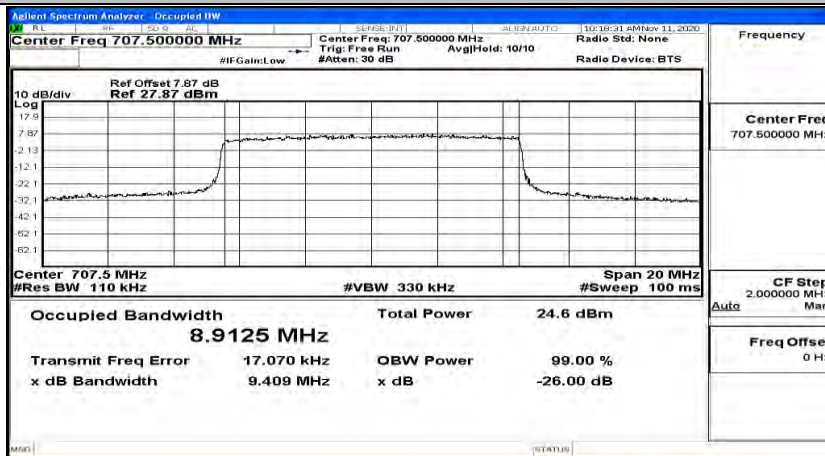
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



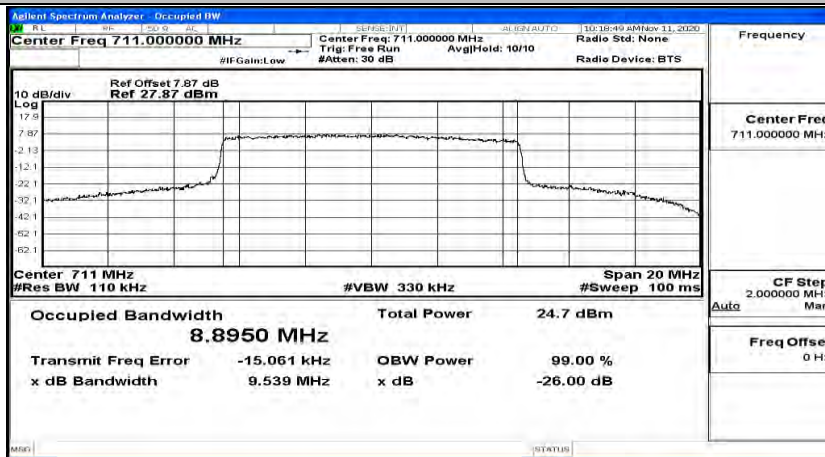
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

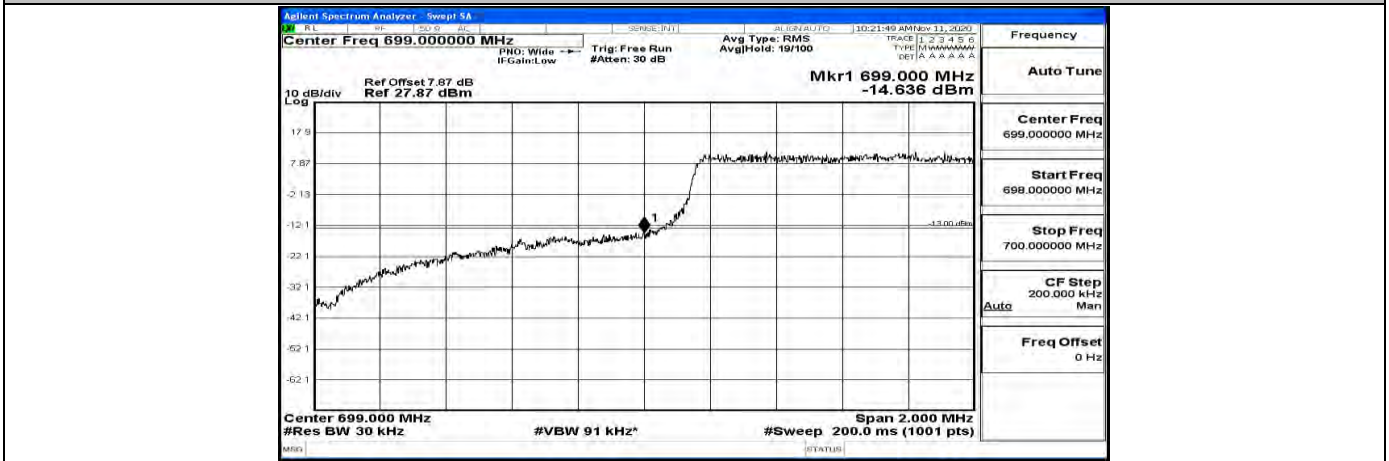


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

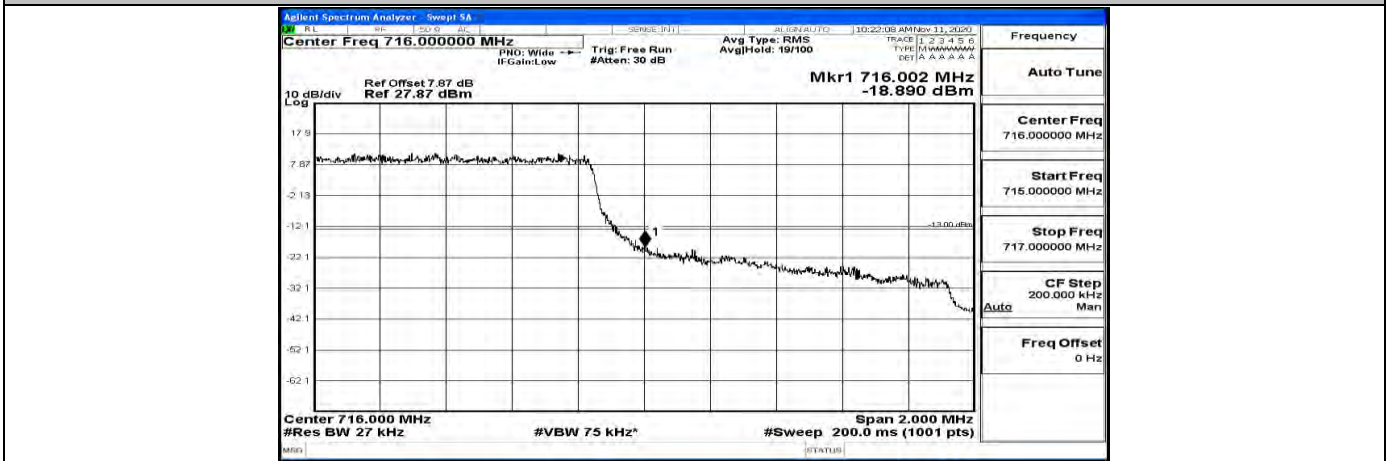


H.4 Band Edge

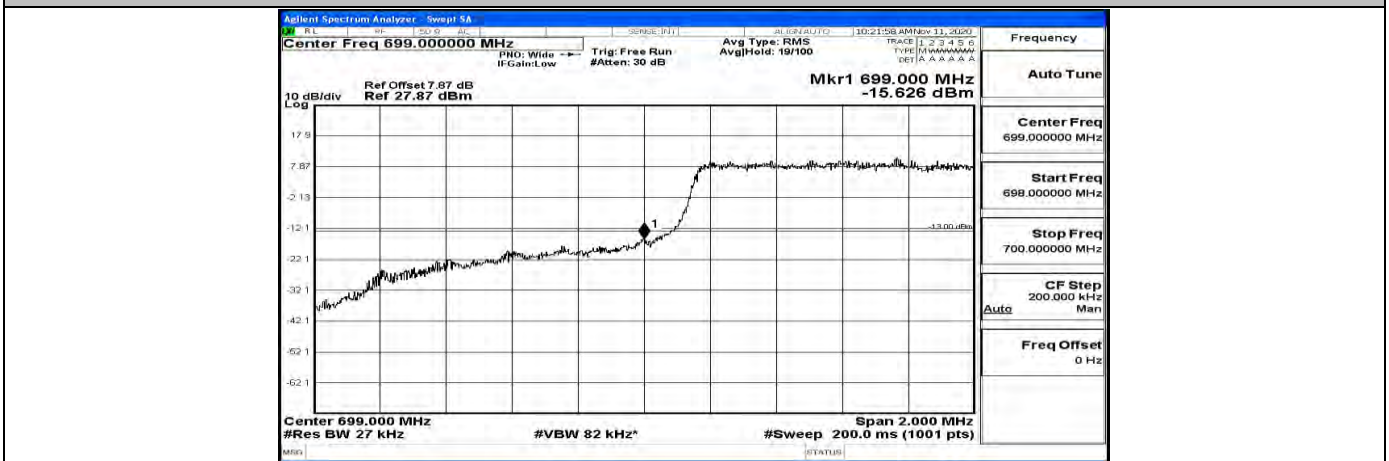
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



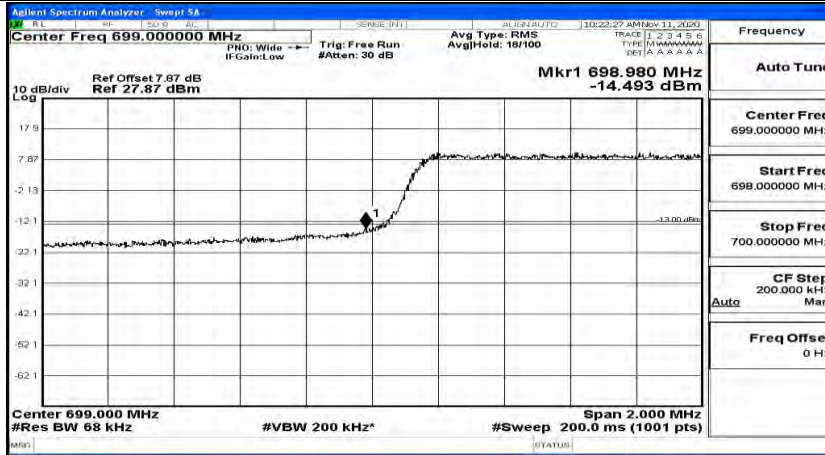
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



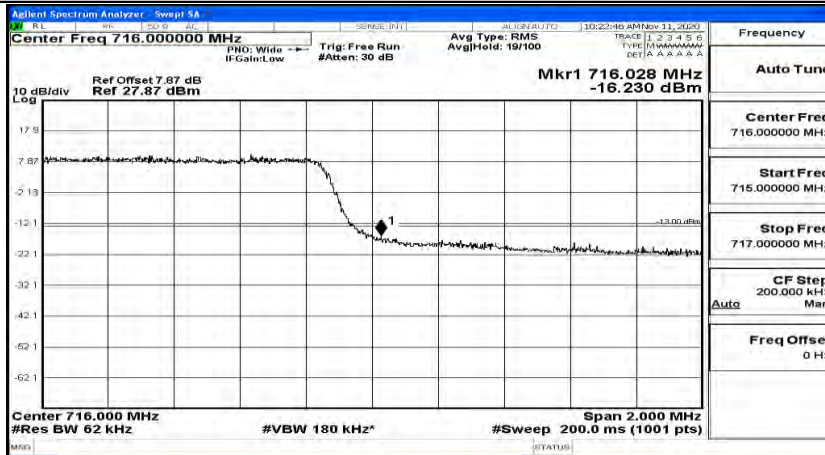
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



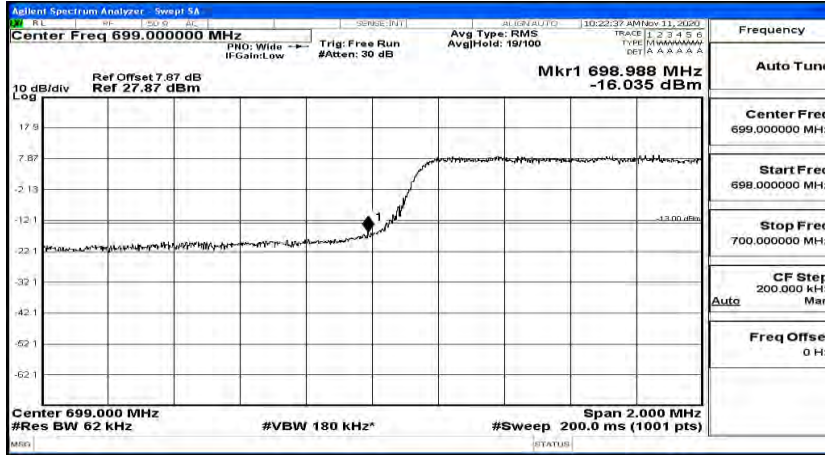
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



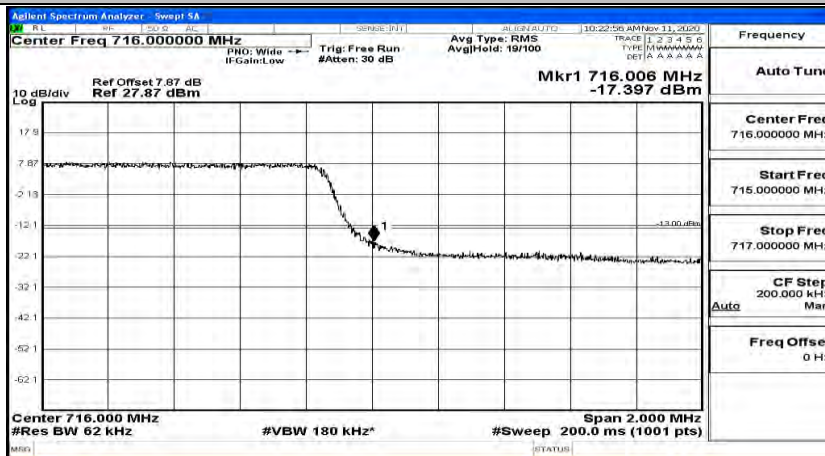
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



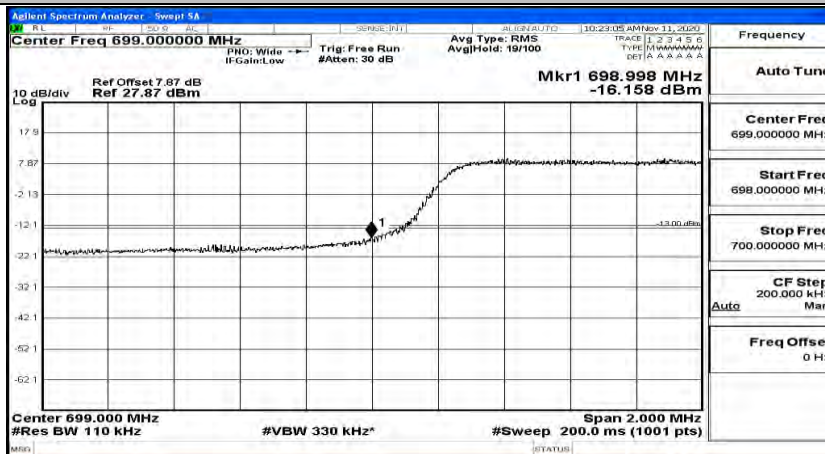
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



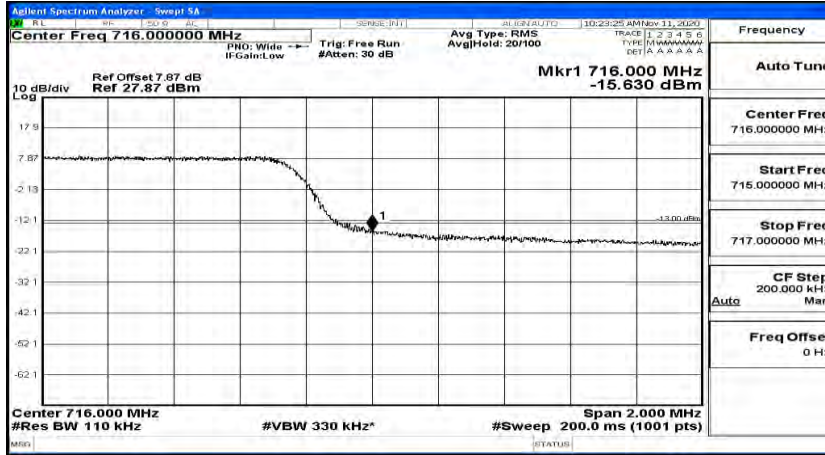
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



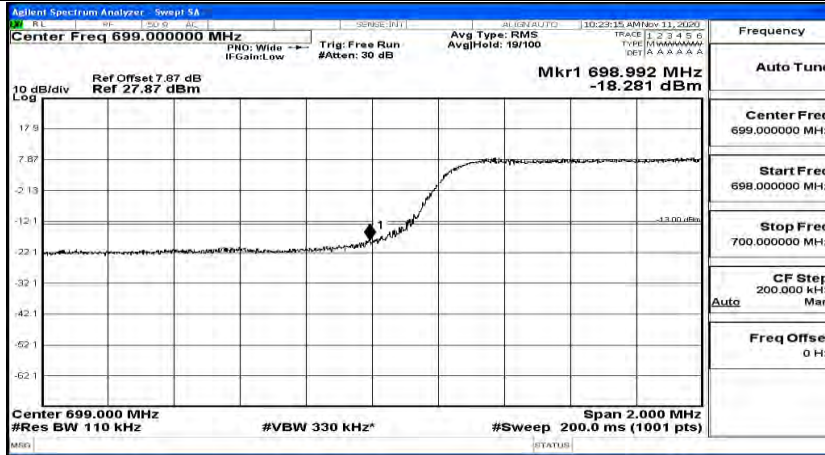
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



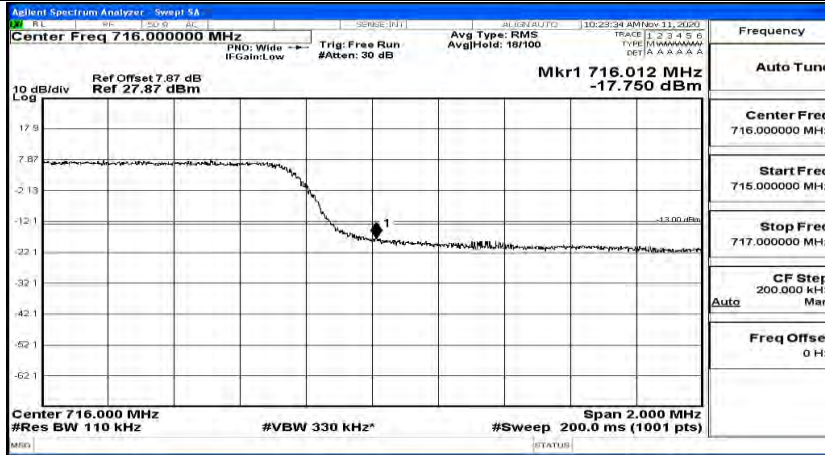
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



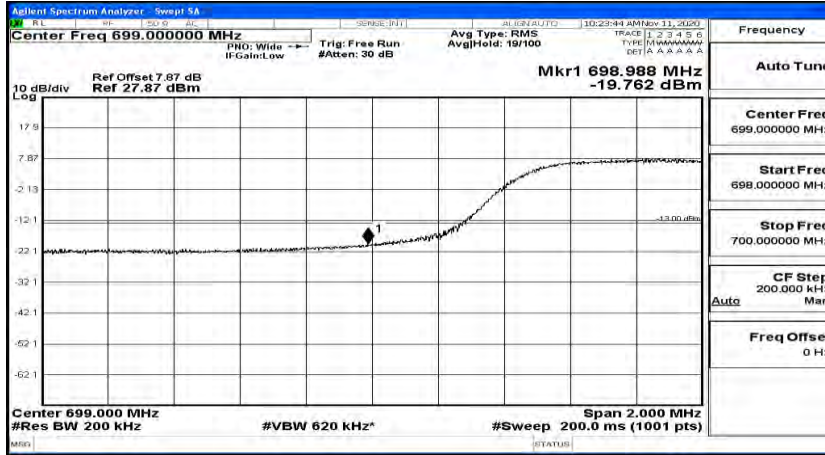
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



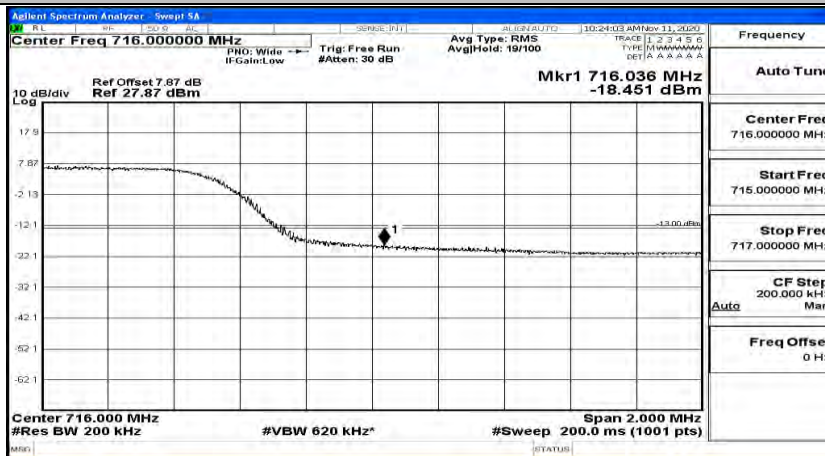
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



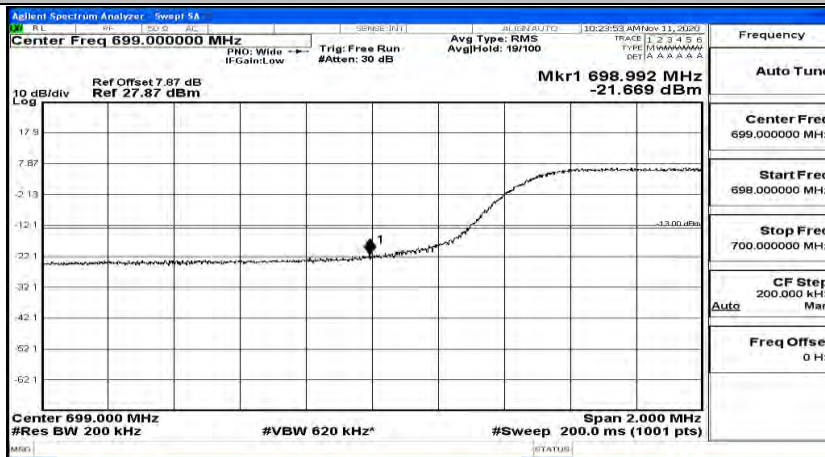
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



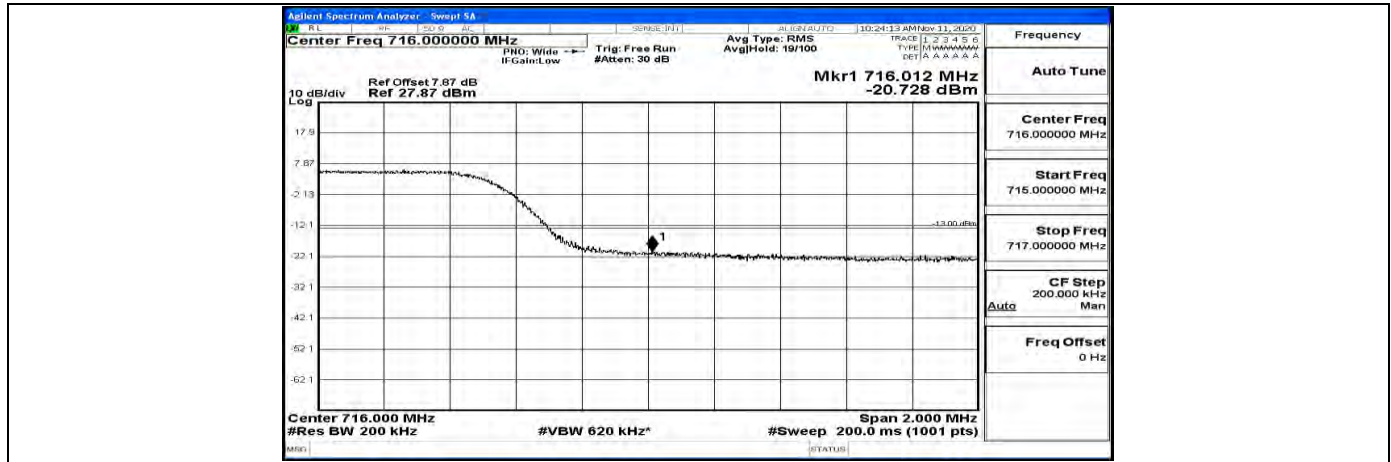
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

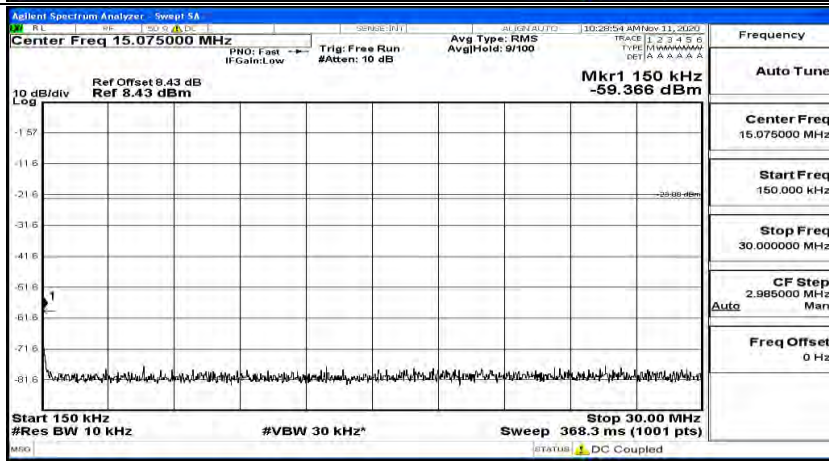
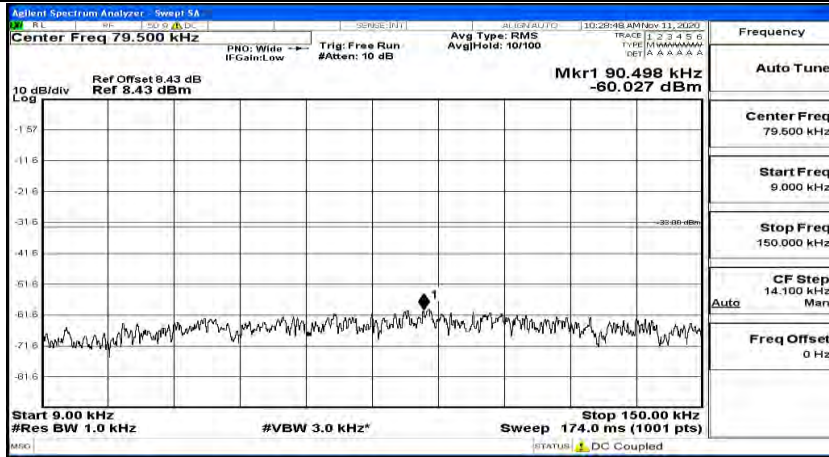


H.5 Conducted Spurious Emission

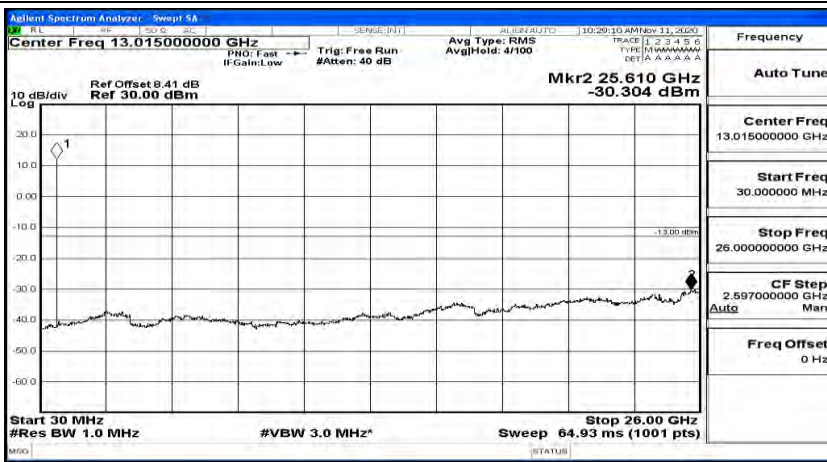
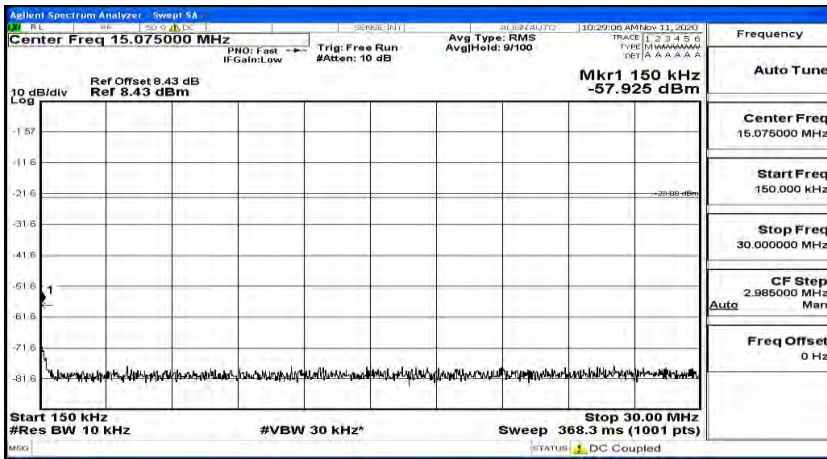
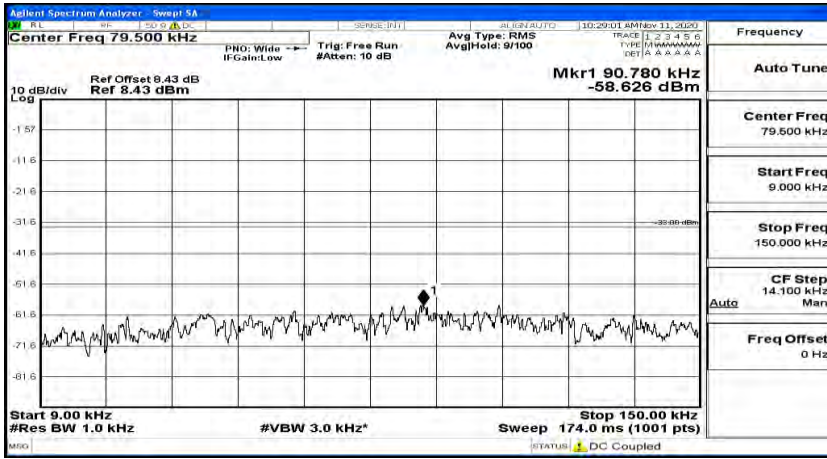
Test Graphs

Channel Bandwidth: 1.4 MHz

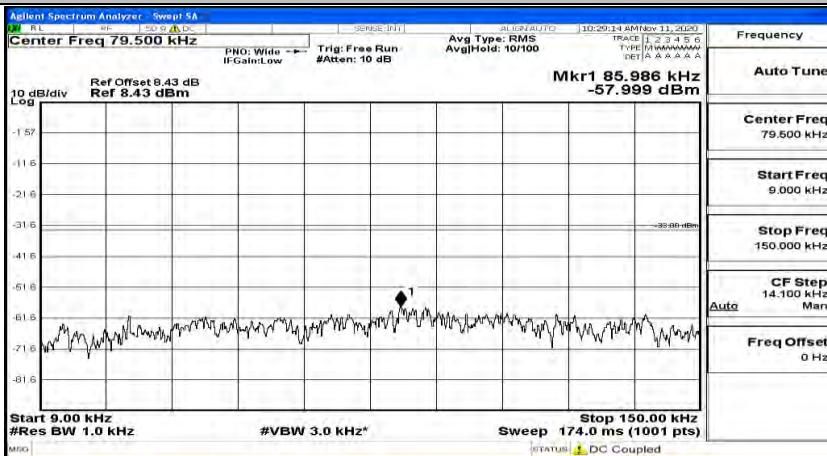
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0

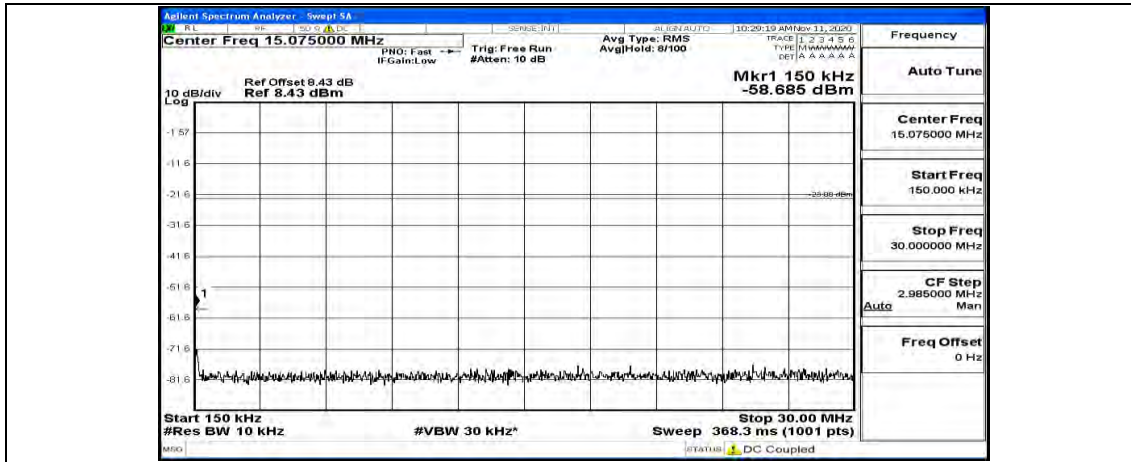


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

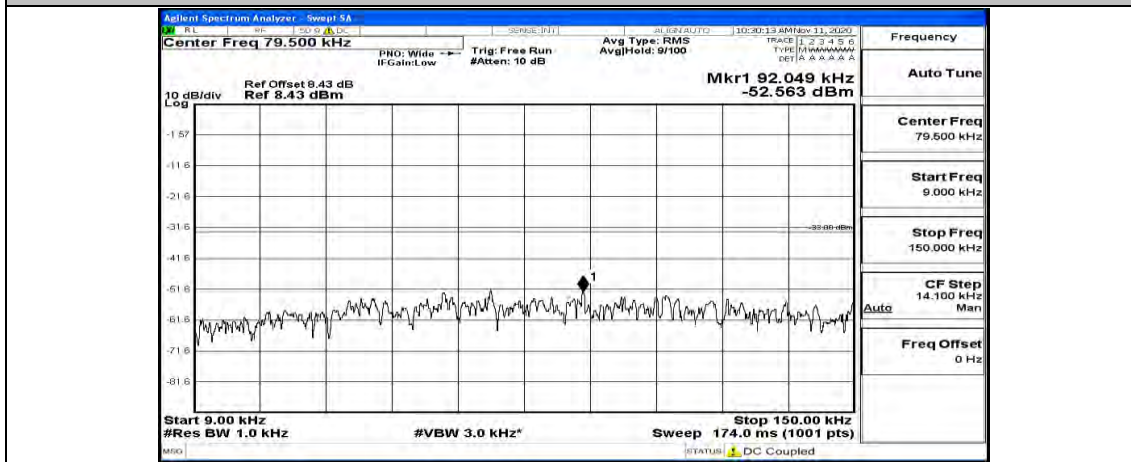


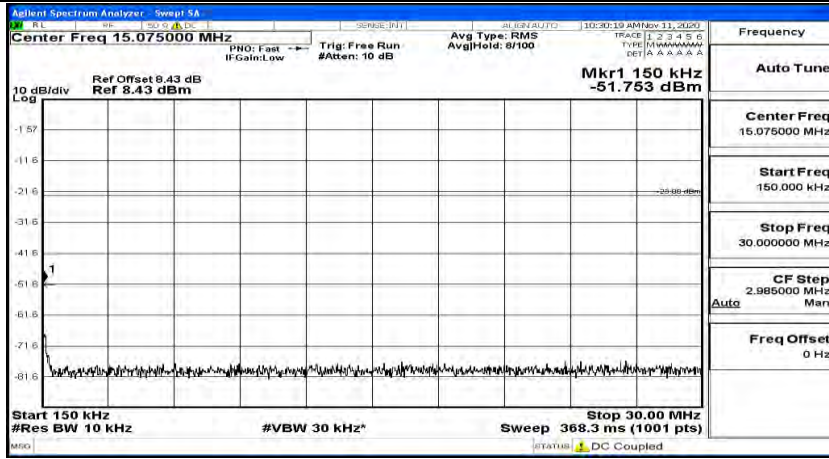
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



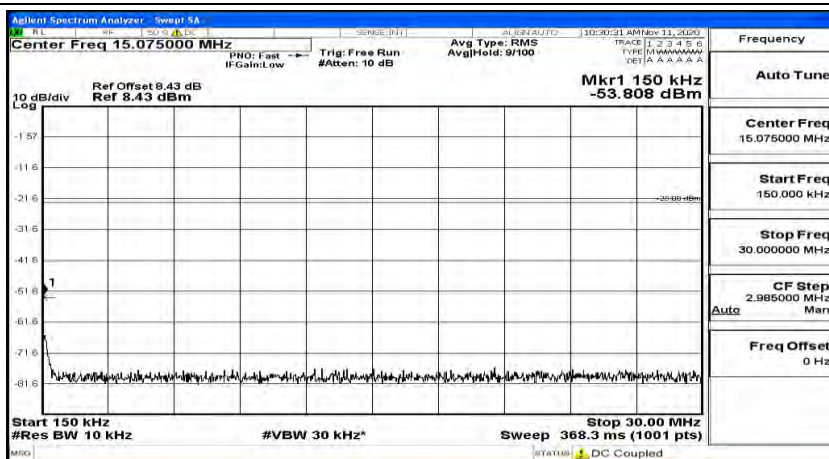
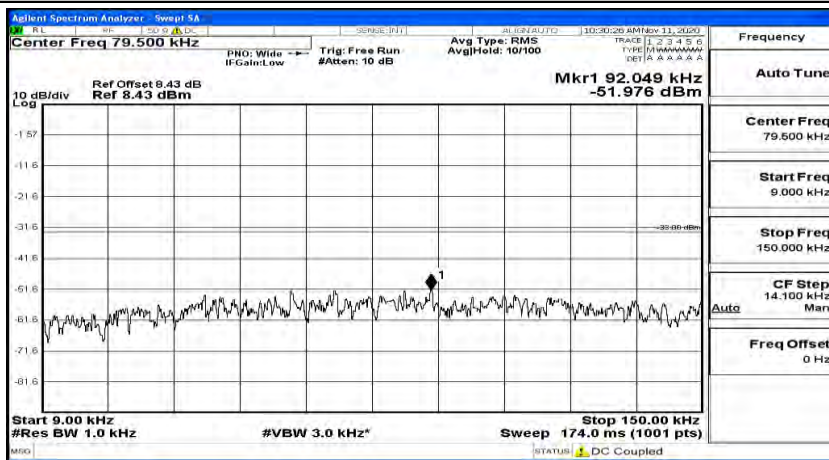


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



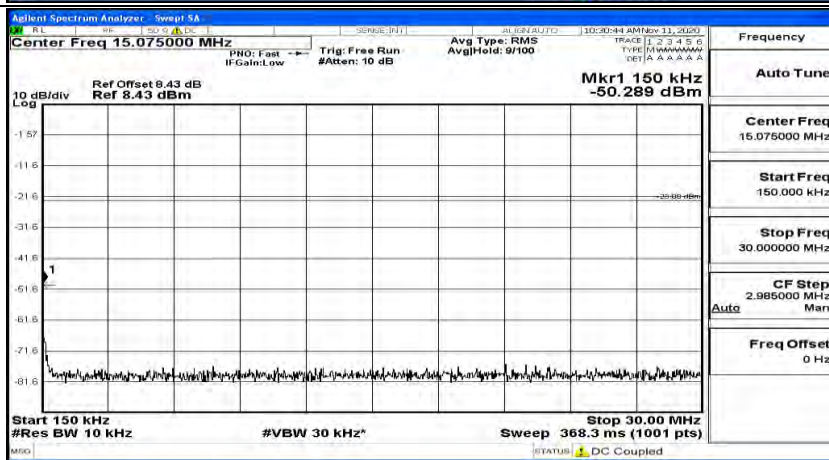
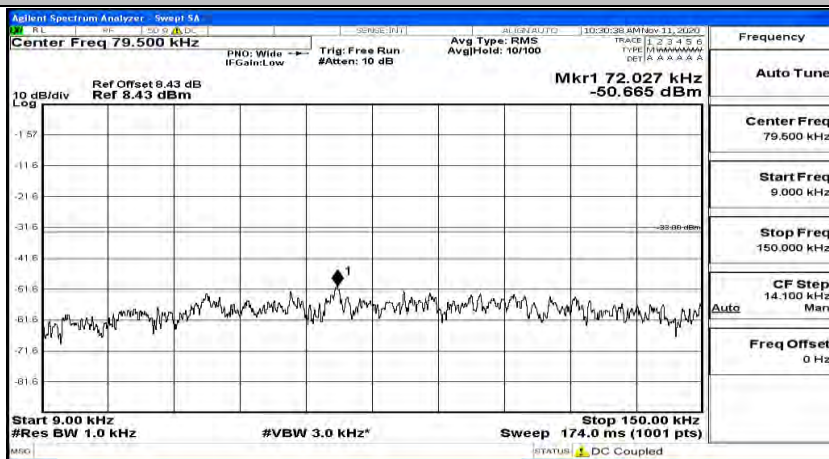


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

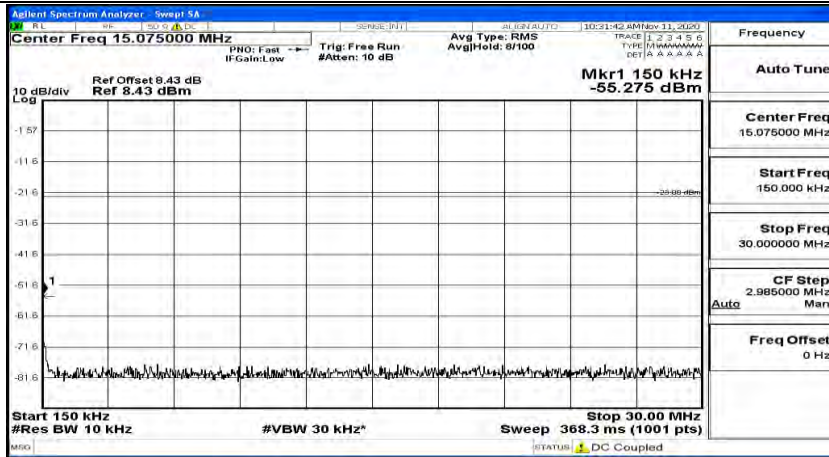
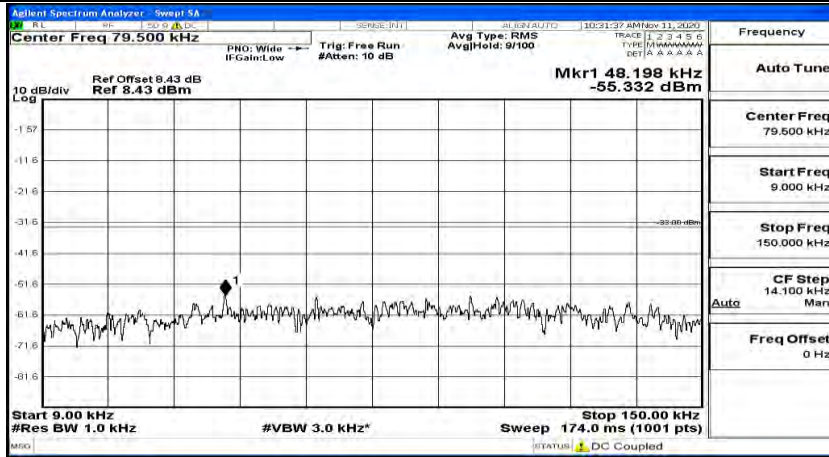




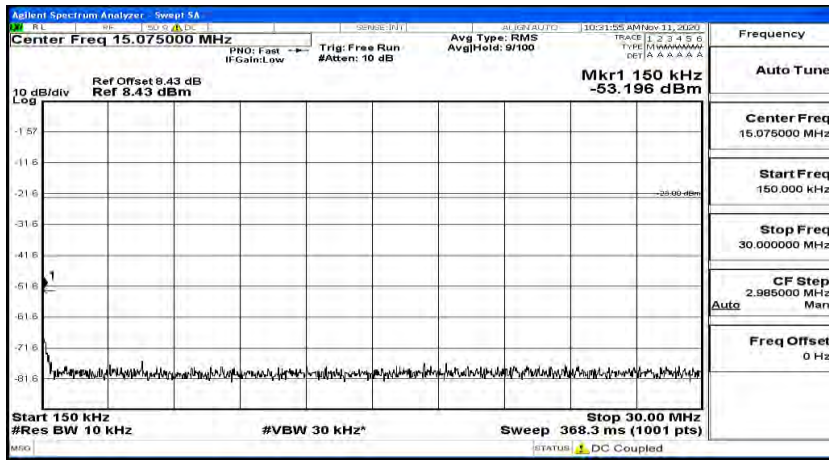
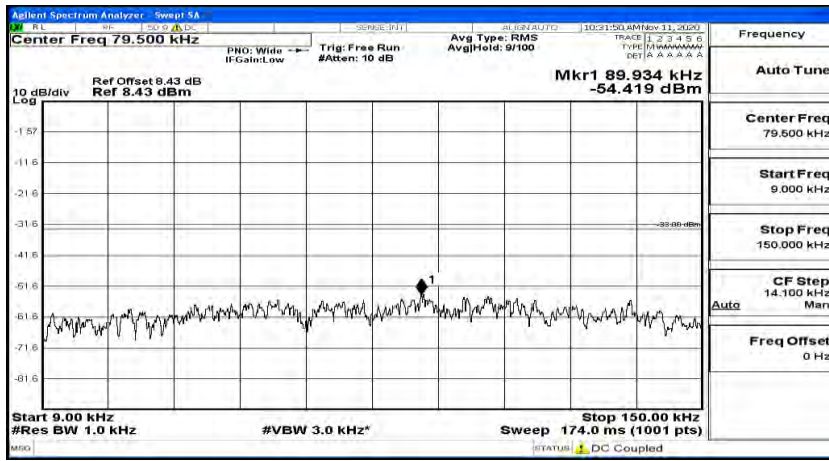
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



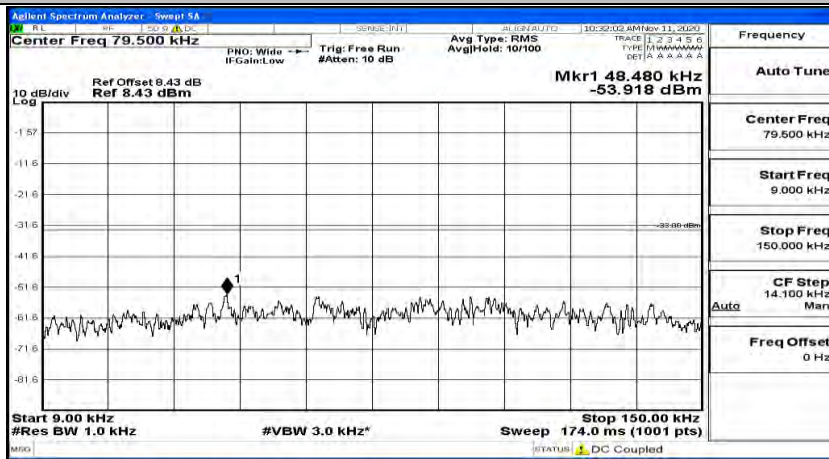
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

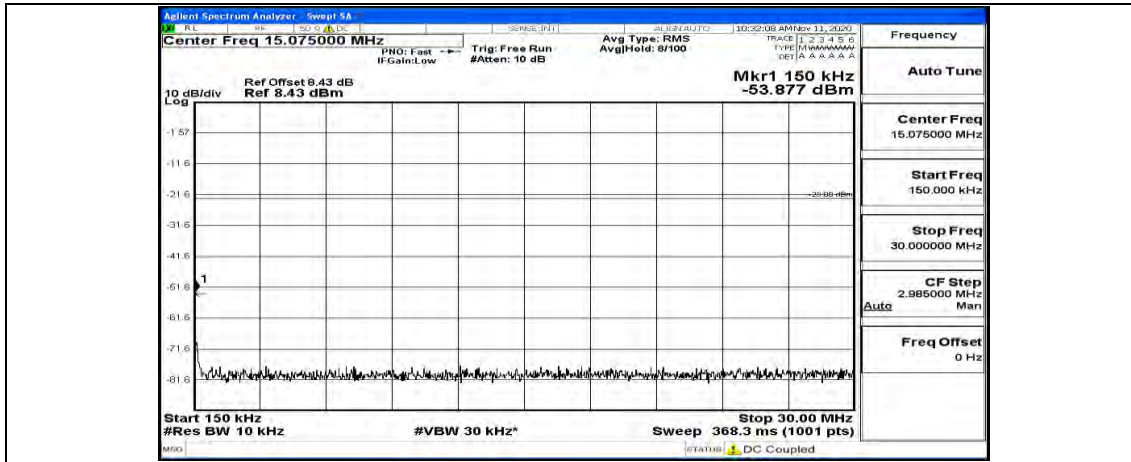


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3

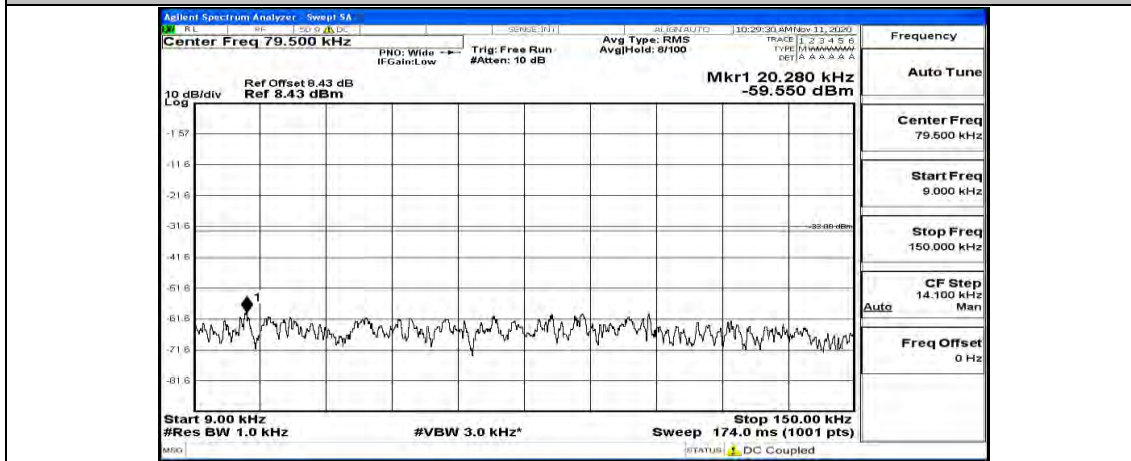


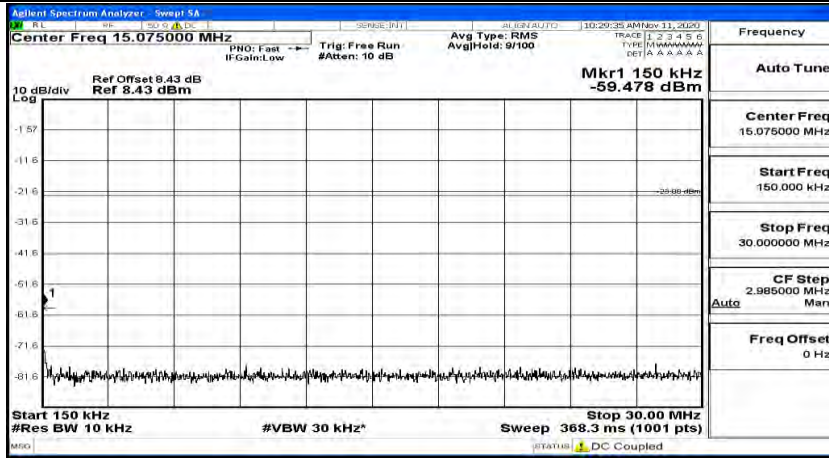
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



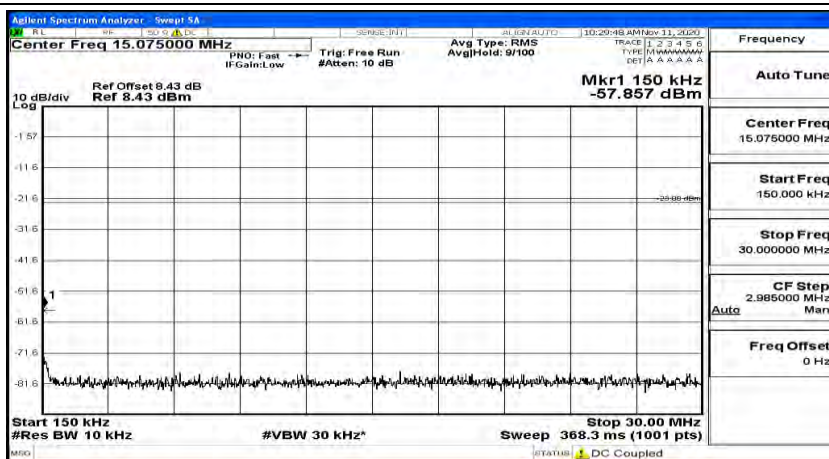
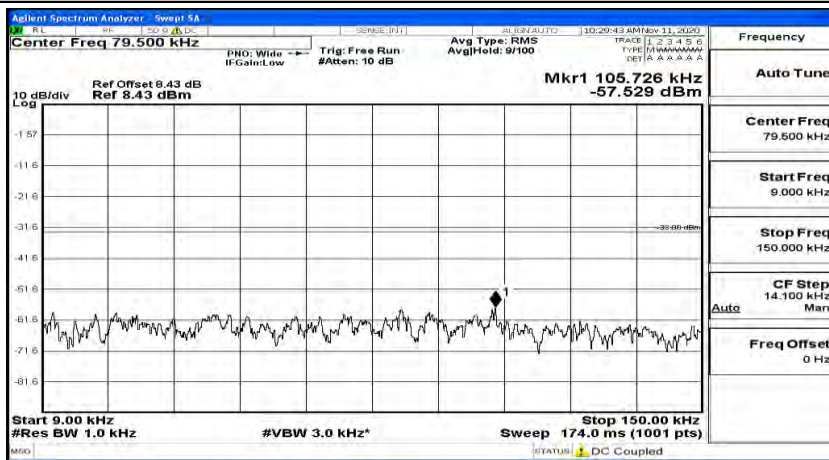


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



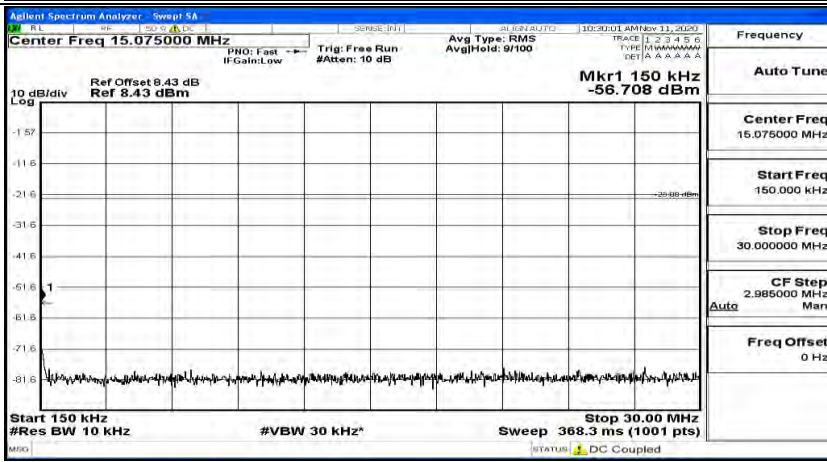
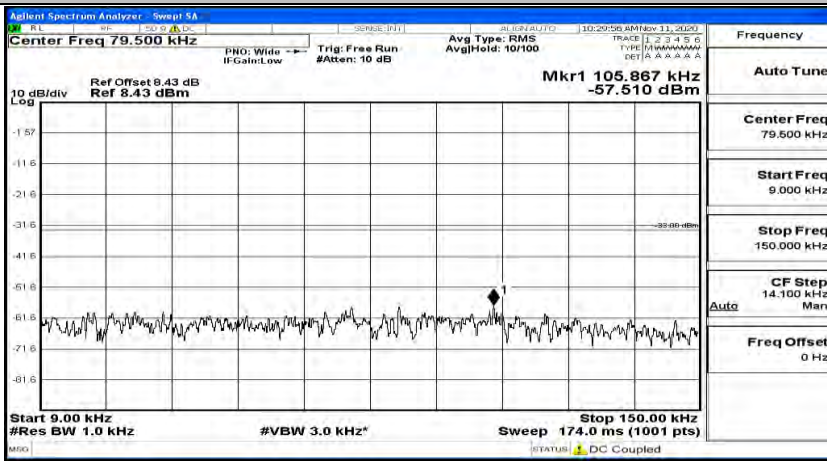


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

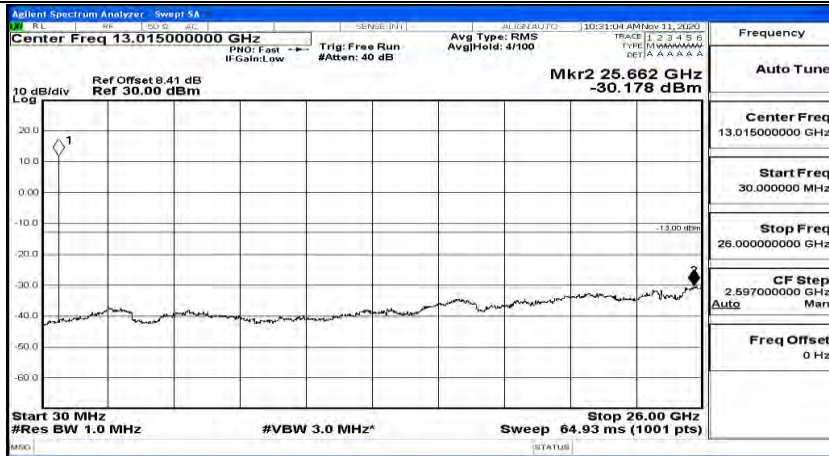
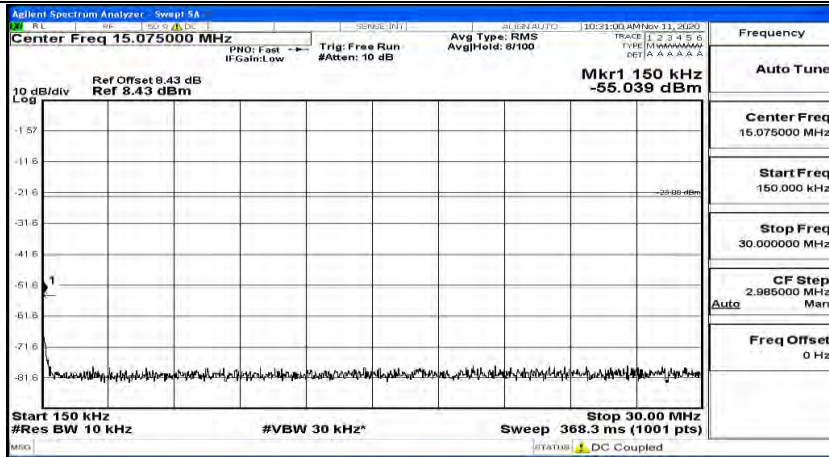
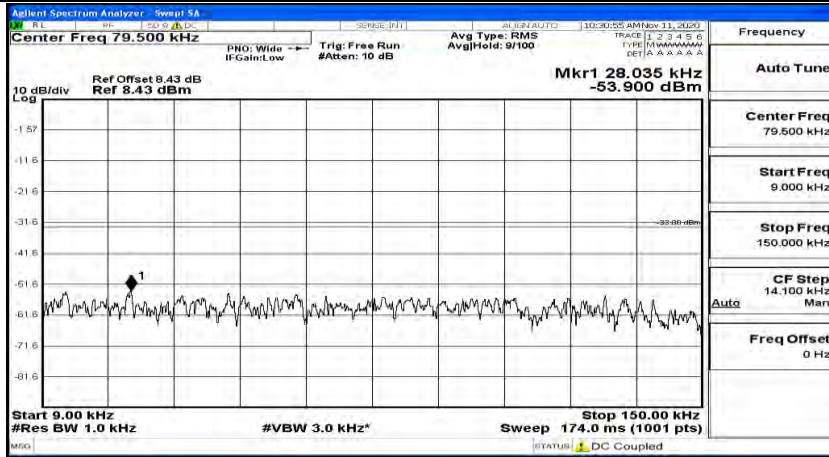




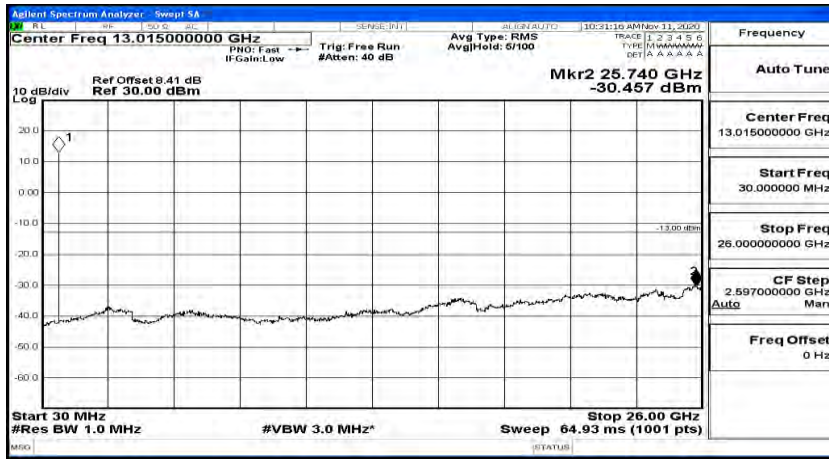
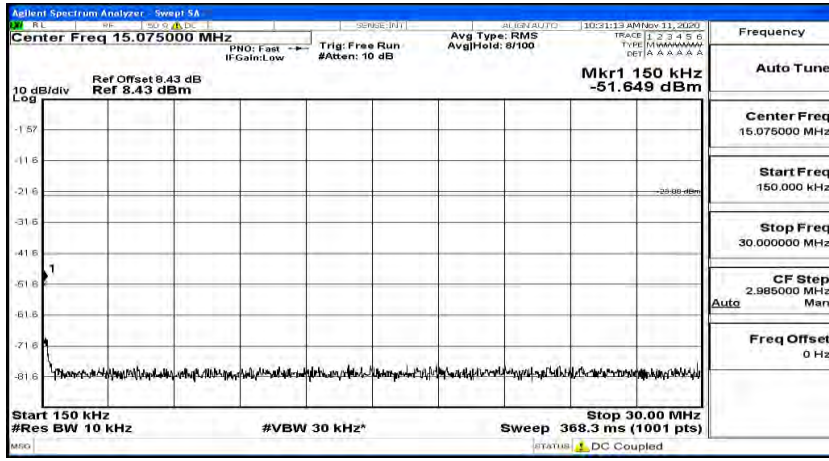
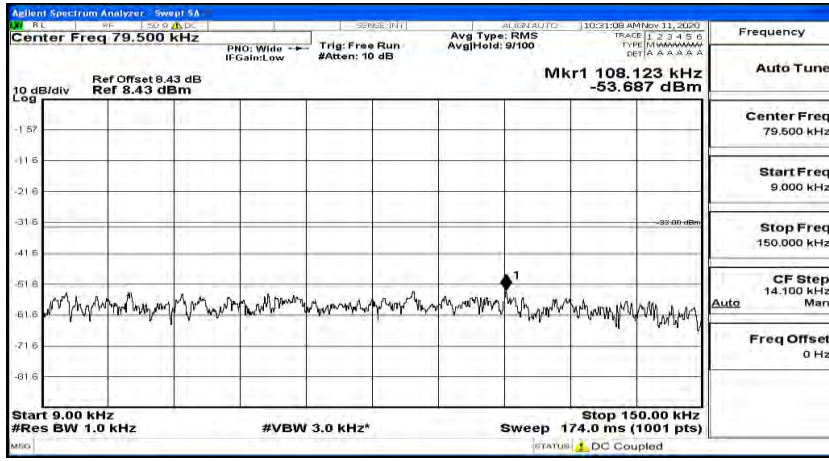
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



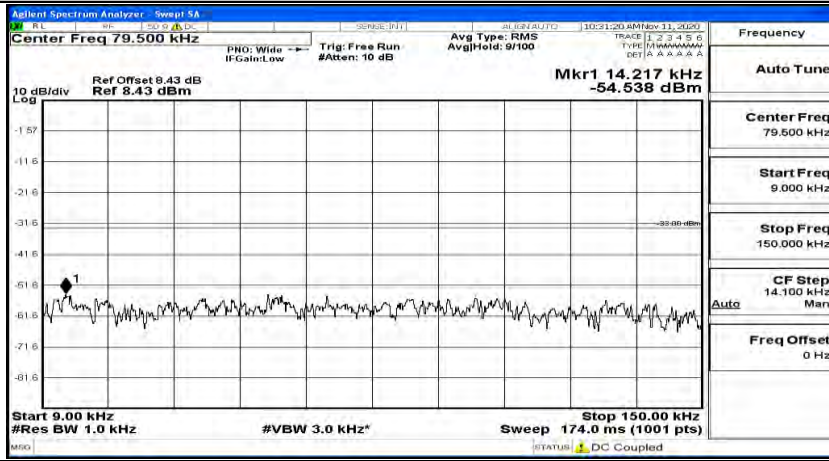
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0

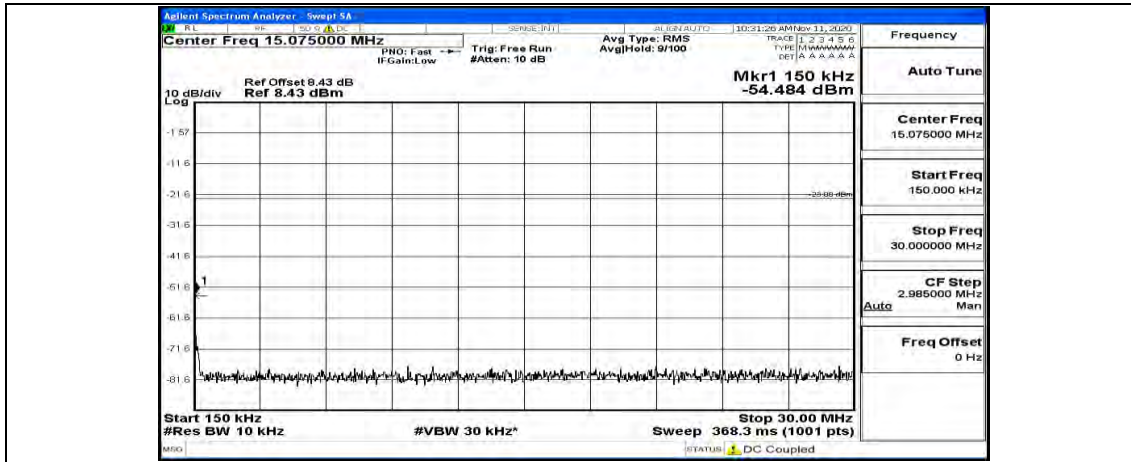


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3

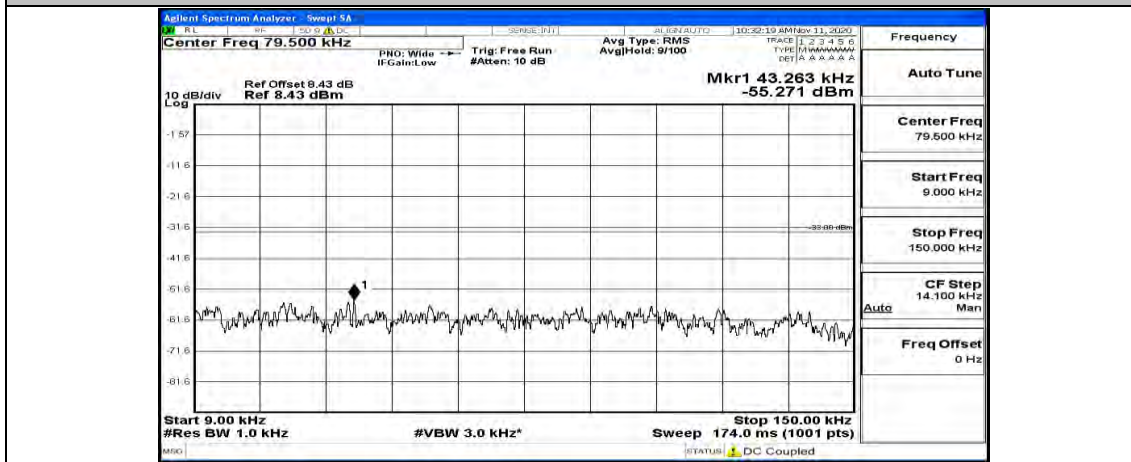


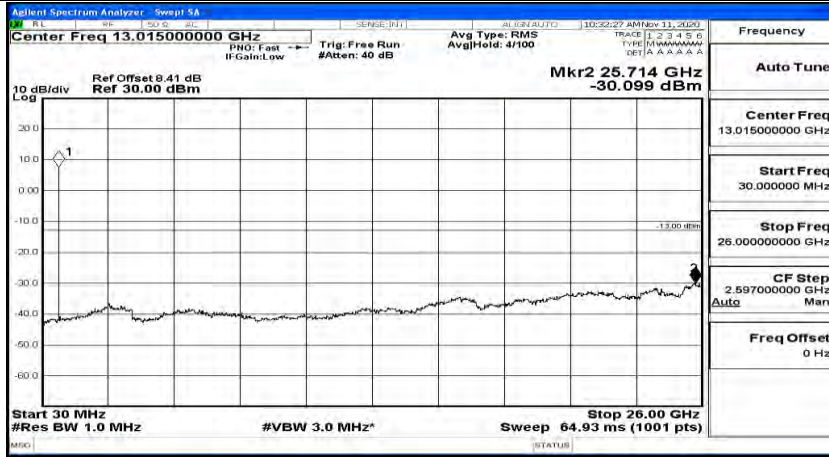
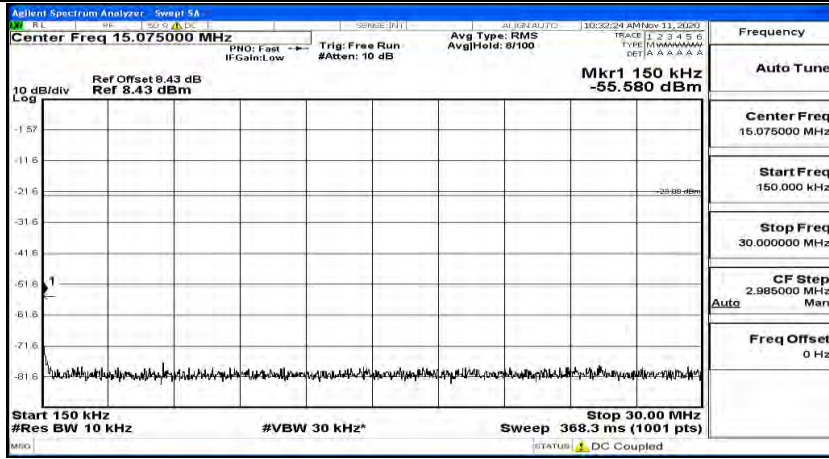
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



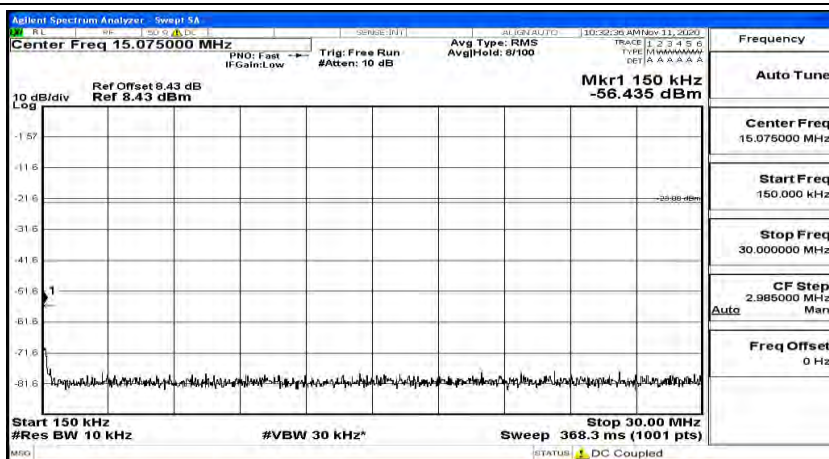
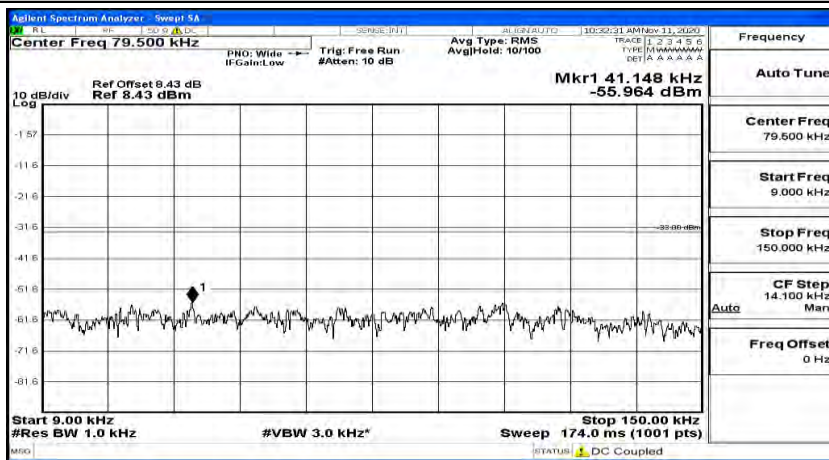


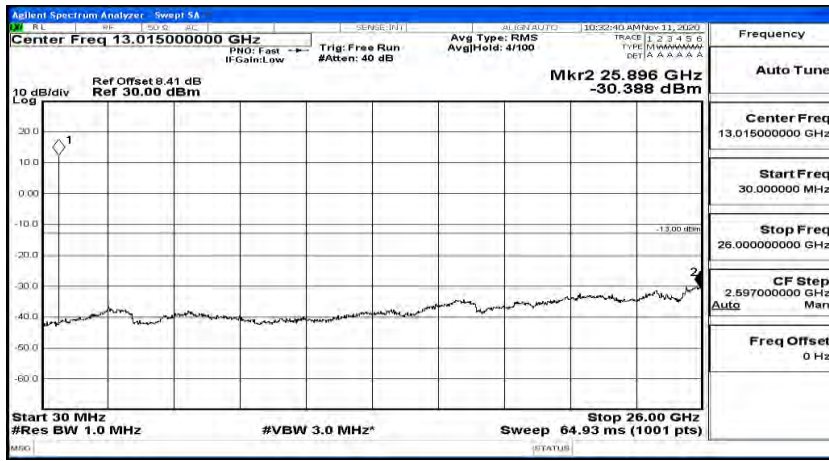
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



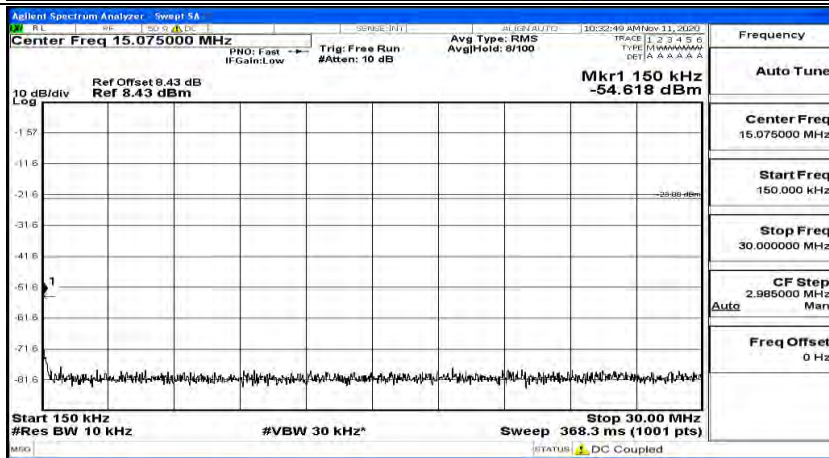
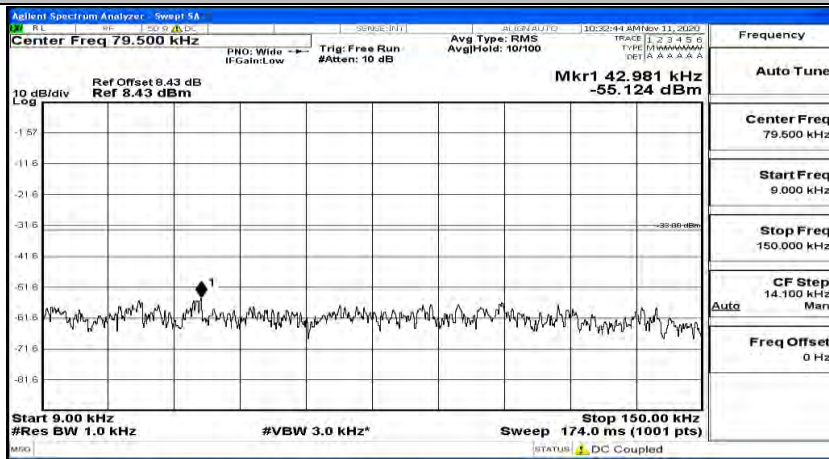


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



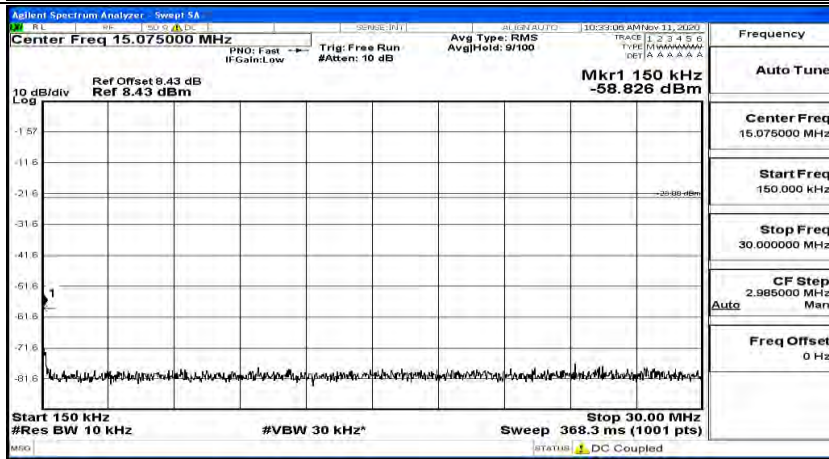
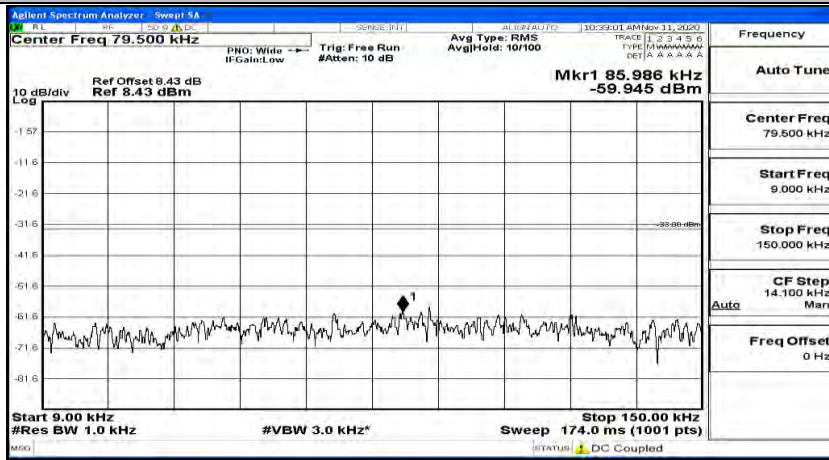


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7