

Appendix I: Test Data for E-UTRA Band 12

Product Name: Tablet PC

Trade Mark: Bright Life

Test Model: TL21

Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Tom.Liu

I.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	21.88	INCONCLUSIVE	PASS
		1	3	21.87	21.33	PASS
		1	5	21.71	21.13	PASS
		3	0	21.98	21.21	PASS
		3	2	21.99	21.19	PASS
		3	3	21.89	21.09	PASS
		6	0	21.97	21.01	PASS
	MCH	1	0	23.65	23.06	PASS
		1	3	23.80	23.25	PASS
		1	5	23.79	23.18	PASS
		3	0	23.63	22.68	PASS
		3	2	23.74	22.83	PASS
		3	3	23.72	22.84	PASS
		6	0	23.36	22.35	PASS
	HCH	1	0	24.59	23.78	PASS
		1	3	24.47	23.84	PASS
		1	5	24.25	23.58	PASS
		3	0	24.61	23.73	PASS
		3	2	24.52	23.66	PASS
		3	3	24.39	23.53	PASS
		6	0	23.99	23.38	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.17	21.47	PASS
		1	7	21.97	21.31	PASS
		1	14	21.69	21.02	PASS
		8	0	22.07	21.17	PASS
		8	4	21.94	21.08	PASS
		8	7	21.78	20.88	PASS
		15	0	21.93	20.95	PASS
	MCH	1	0	23.25	22.53	PASS
		1	7	23.89	23.20	PASS
		1	14	23.73	23.02	PASS
		8	0	23.37	22.30	PASS
		8	4	23.41	22.44	PASS
		8	7	23.47	22.45	PASS
		15	0	23.37	22.27	PASS
	HCH	1	0	24.40	23.80	PASS
		1	7	24.82	24.27	PASS
		1	14	24.21	23.66	PASS
		8	0	24.10	23.15	PASS
		8	4	23.96	23.10	PASS
		8	7	23.95	22.89	PASS
		15	0	23.97	22.88	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.04	21.46	PASS
		1	12	21.87	21.32	PASS
		1	24	21.76	21.20	PASS
		12	0	21.92	21.11	PASS
		12	6	21.73	20.93	PASS
		12	13	21.60	20.80	PASS
		25	0	21.75	20.83	PASS
	MCH	1	0	22.70	22.13	PASS
		1	12	23.88	23.30	PASS
		1	24	23.46	22.86	PASS
		12	0	23.15	22.32	PASS
		12	6	23.46	22.56	PASS
		12	13	23.47	22.45	PASS
		25	0	23.29	22.34	PASS
	HCH	1	0	23.39	22.43	PASS
		1	12	24.63	23.65	PASS
		1	24	24.17	23.20	PASS
		12	0	23.77	22.82	PASS
		12	6	23.99	23.06	PASS
		12	13	23.82	22.85	PASS
		25	0	23.84	23.19	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	21.37	20.68	PASS
		1	24	22.21	21.52	PASS
		1	49	23.03	22.36	PASS
		25	0	21.53	20.56	PASS
		25	12	22.23	21.23	PASS
		25	25	22.98	22.00	PASS
		50	0	22.28	21.32	PASS
	MCH	1	0	20.83	20.13	PASS
		1	24	23.85	23.14	PASS
		1	49	22.94	22.24	PASS
		25	0	22.59	21.57	PASS
		25	12	23.52	22.54	PASS
		25	25	23.37	22.43	PASS
		50	0	22.98	22.04	PASS
	HCH	1	0	22.68	22.12	PASS
		1	24	23.67	23.13	PASS
		1	49	23.73	23.21	PASS
		25	0	23.39	22.42	PASS
		25	12	23.70	22.75	PASS
		25	25	24.05	23.11	PASS
		50	0	23.71	22.66	PASS

I.2 Peak-to-Average Ratio

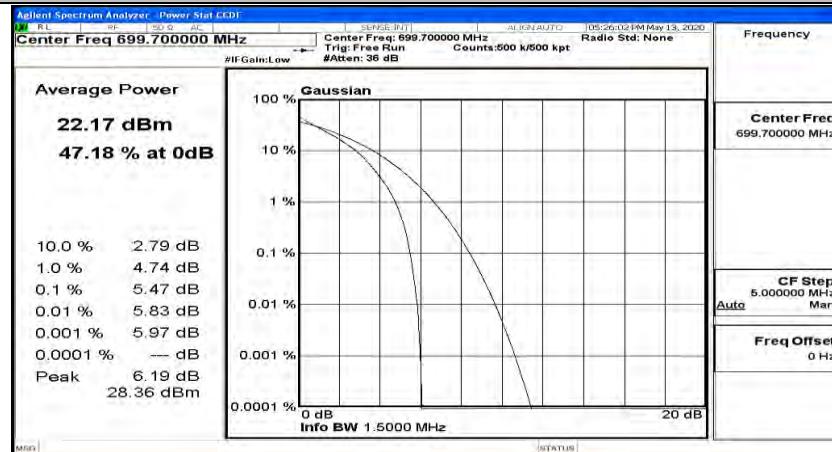
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.47	<13	PASS
	MCH	5.36	<13	PASS
	HCH	4.44	<13	PASS
16QAM	LCH	6.54	<13	PASS
	MCH	6.28	<13	PASS
	HCH	5.19	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.69	<13	PASS
	MCH	5.37	<13	PASS
	HCH	4.73	<13	PASS
16QAM	LCH	6.59	<13	PASS
	MCH	6.31	<13	PASS
	HCH	5.59	<13	PASS

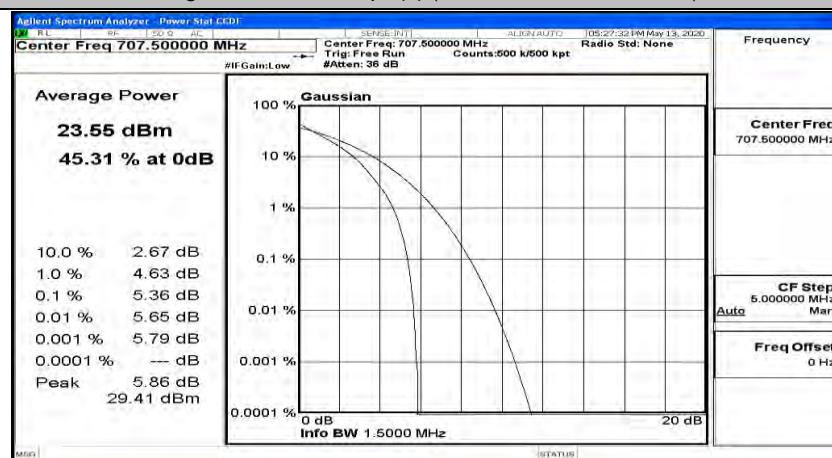
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	6.21	<13	PASS
	MCH	5.32	<13	PASS
	HCH	4.9	<13	PASS
16QAM	LCH	6.76	<13	PASS
	MCH	6.22	<13	PASS
	HCH	5.79	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.57	<13	PASS
	MCH	5.7	<13	PASS
	HCH	5.26	<13	PASS
16QAM	LCH	6.84	<13	PASS
	MCH	6.39	<13	PASS
	HCH	6.12	<13	PASS

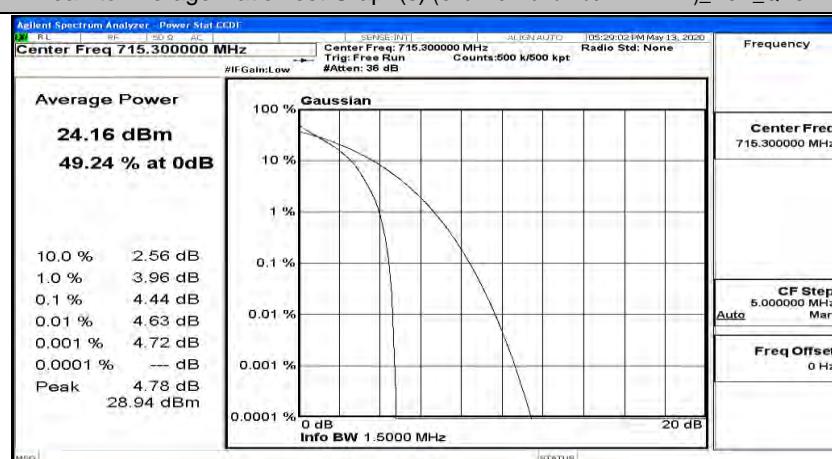
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



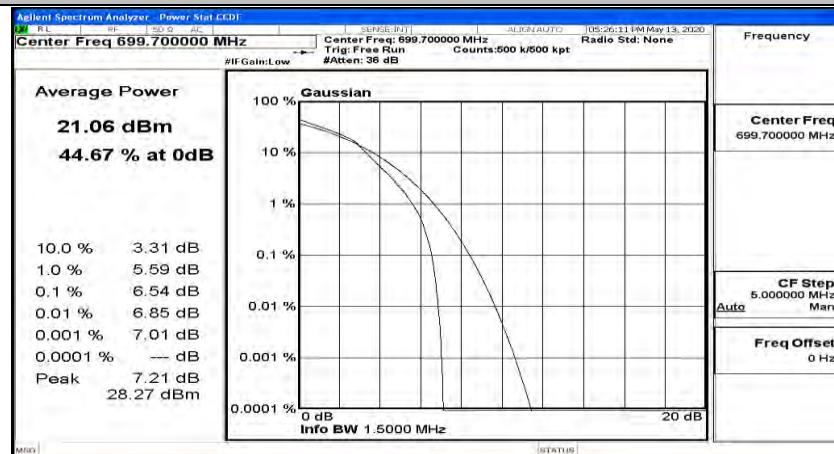
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



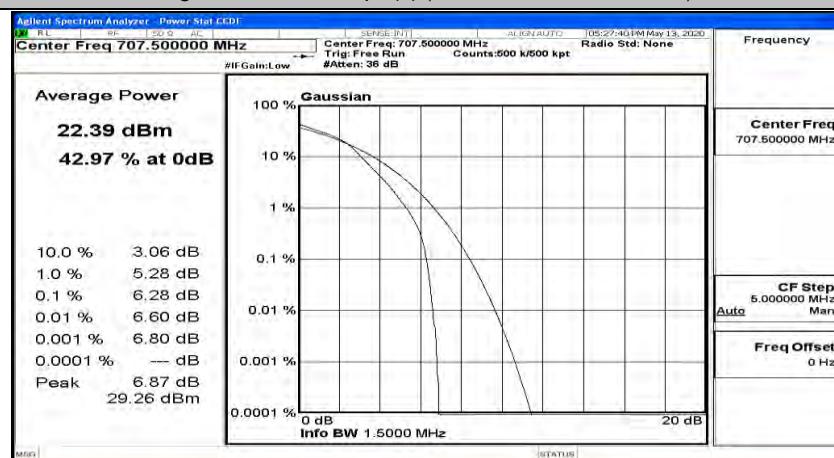
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



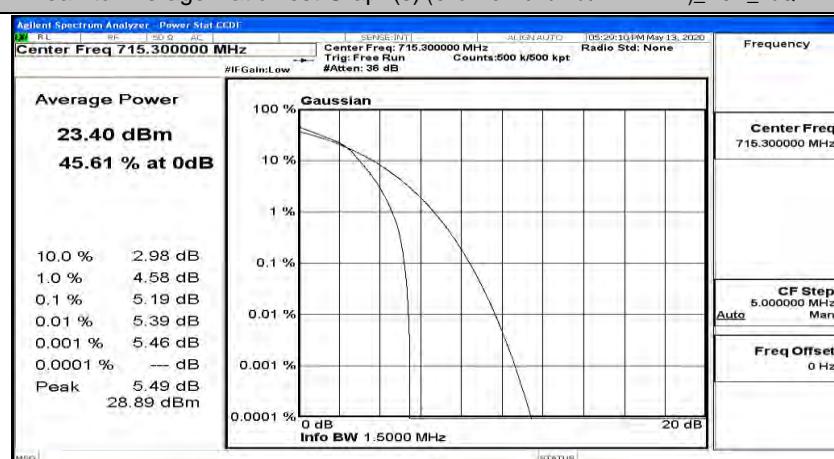
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



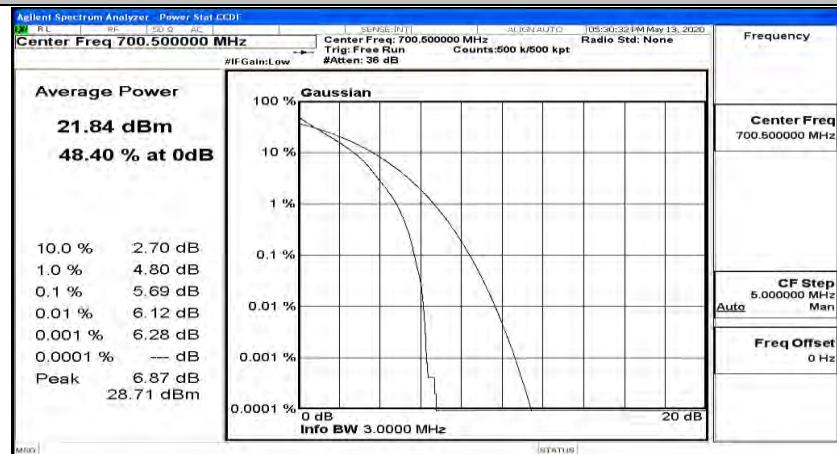
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



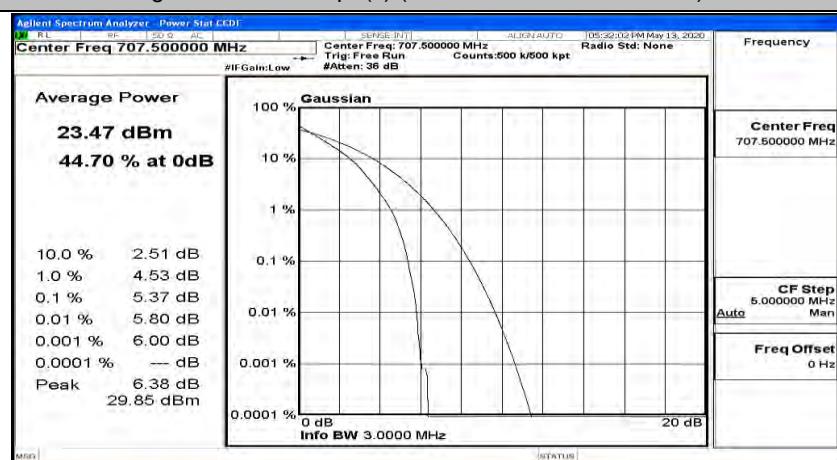
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



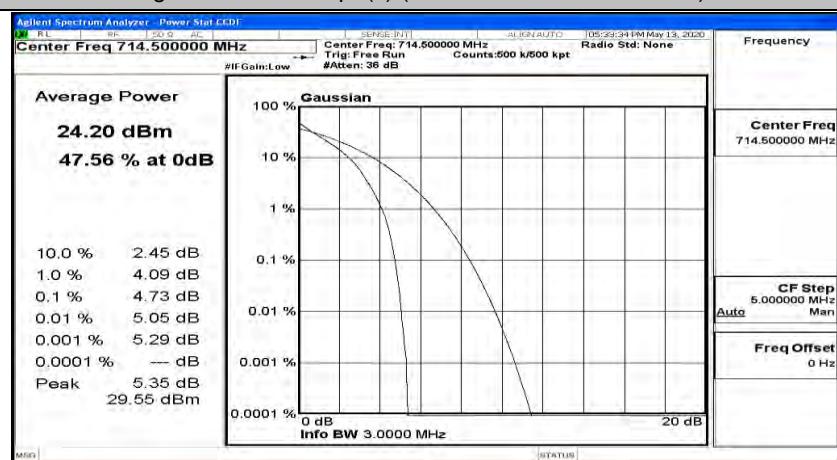
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



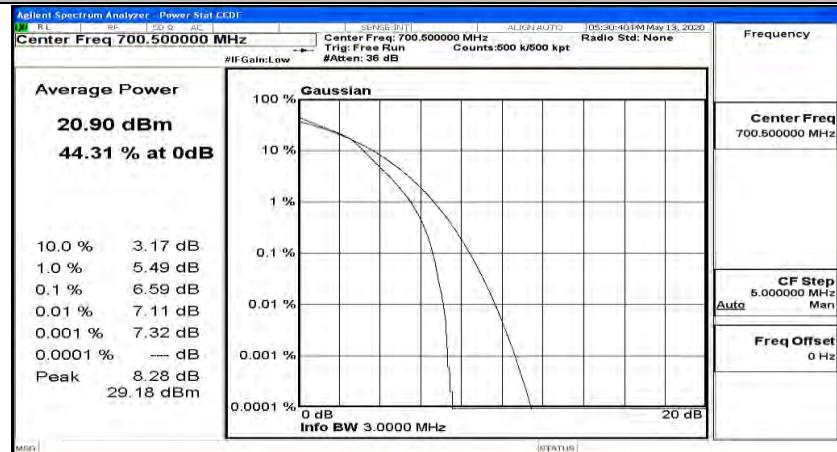
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



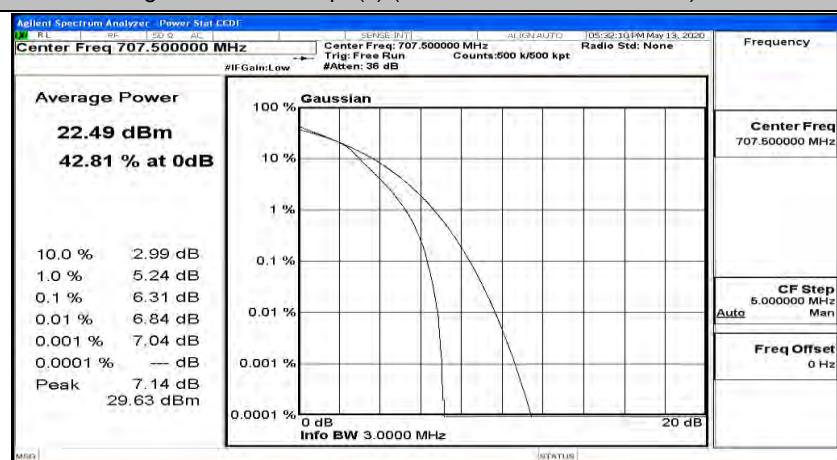
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



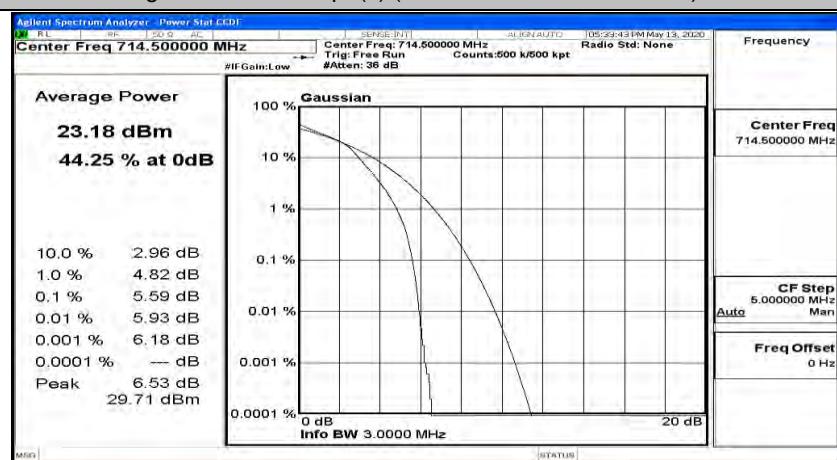
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



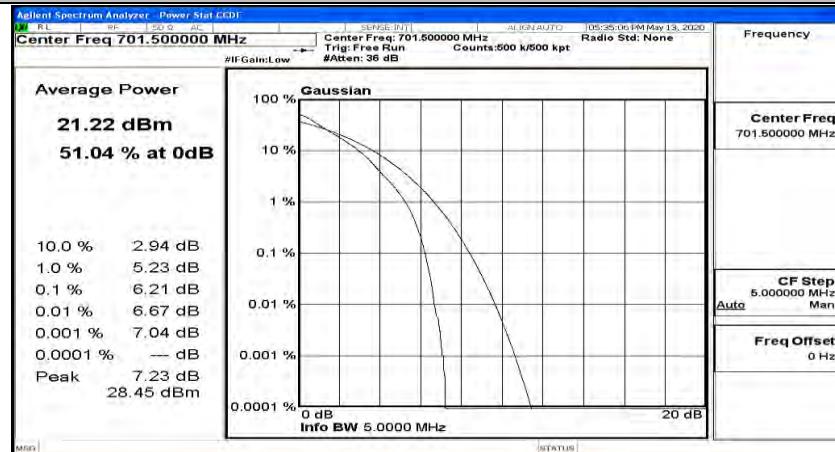
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



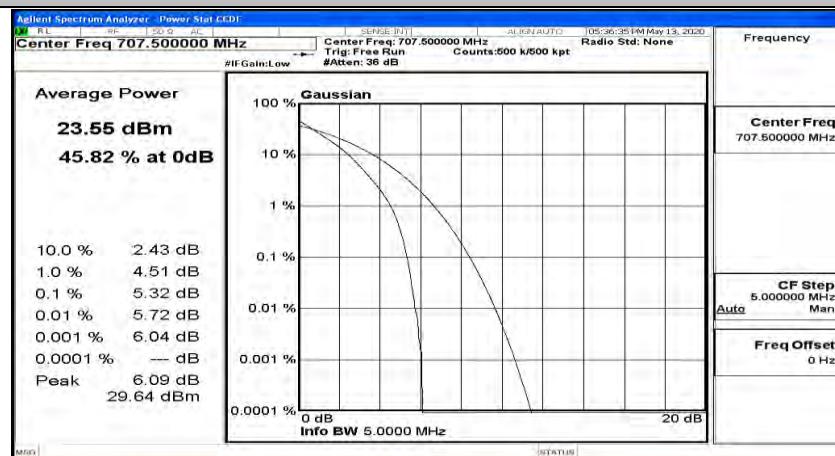
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



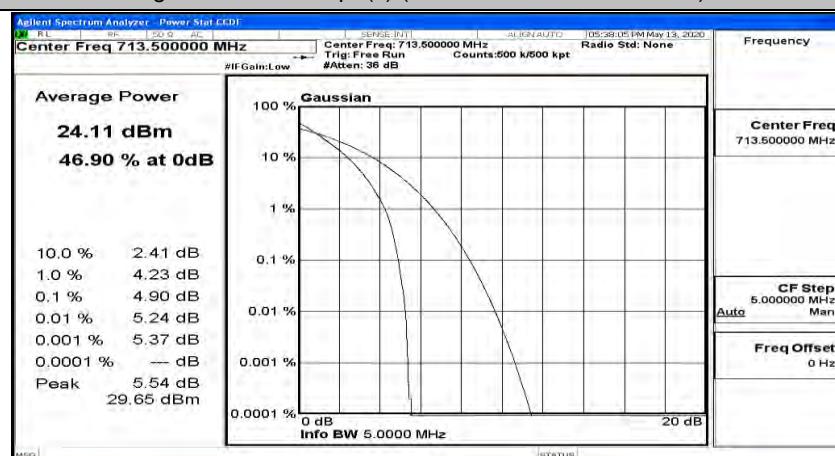
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



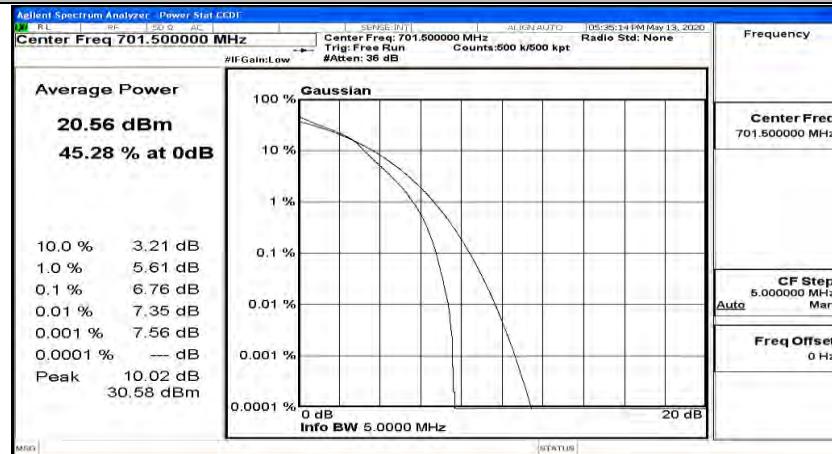
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



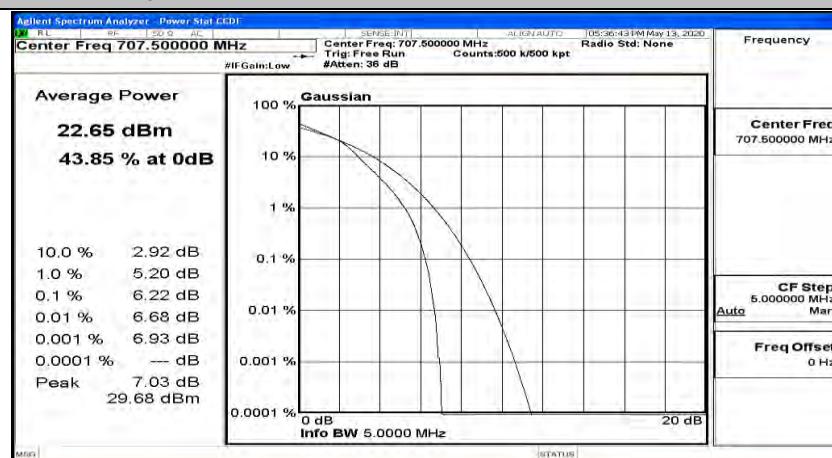
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



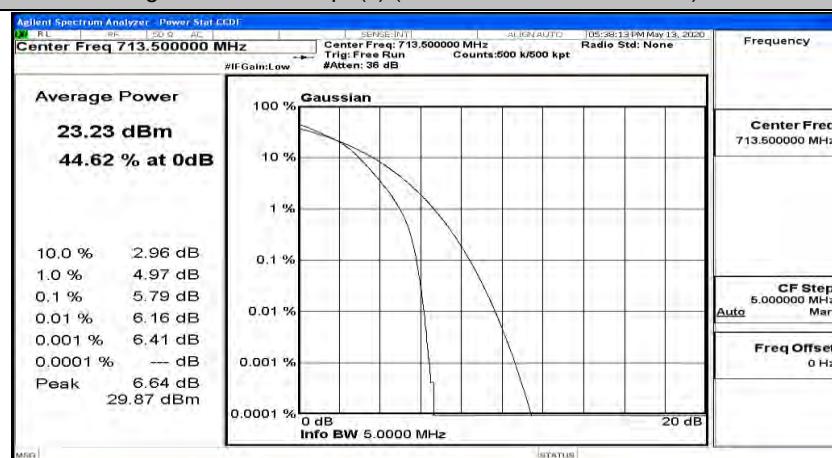
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



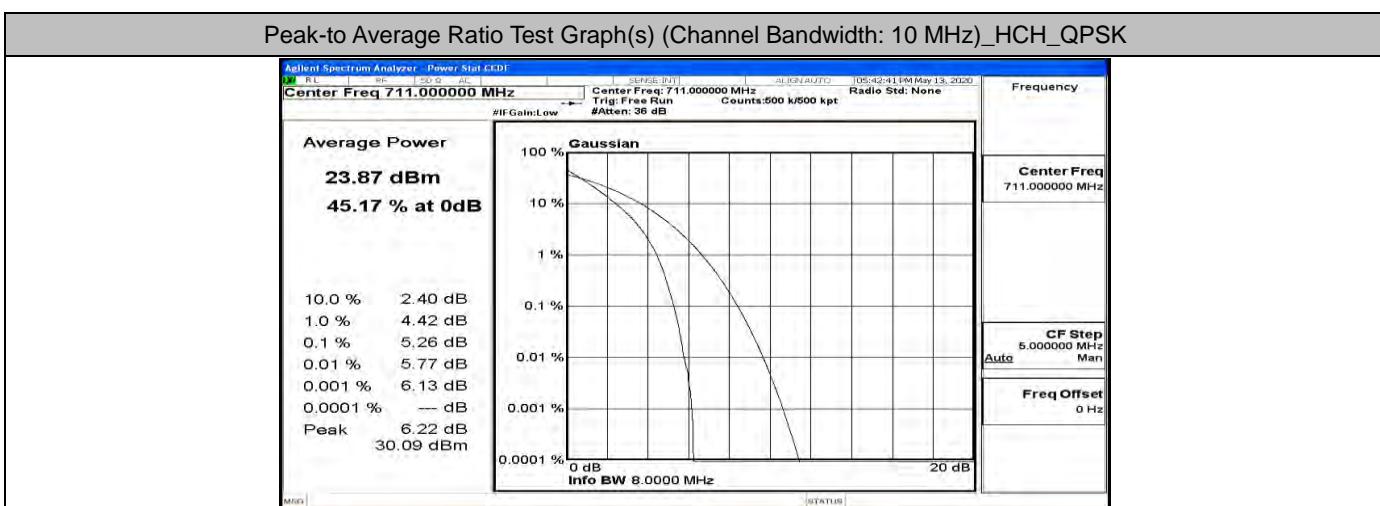
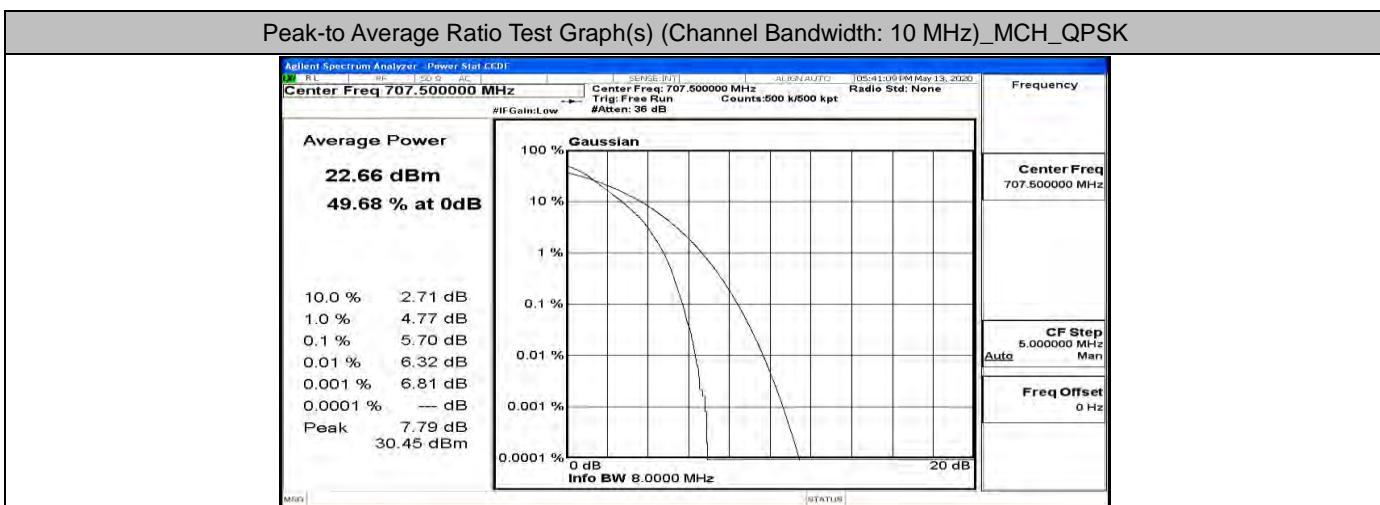
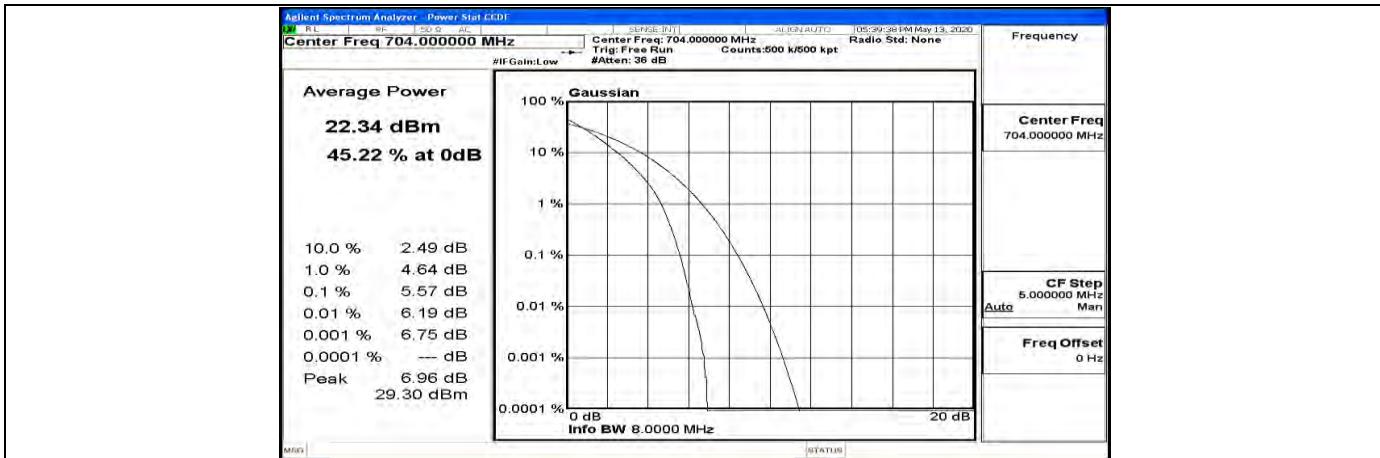
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM

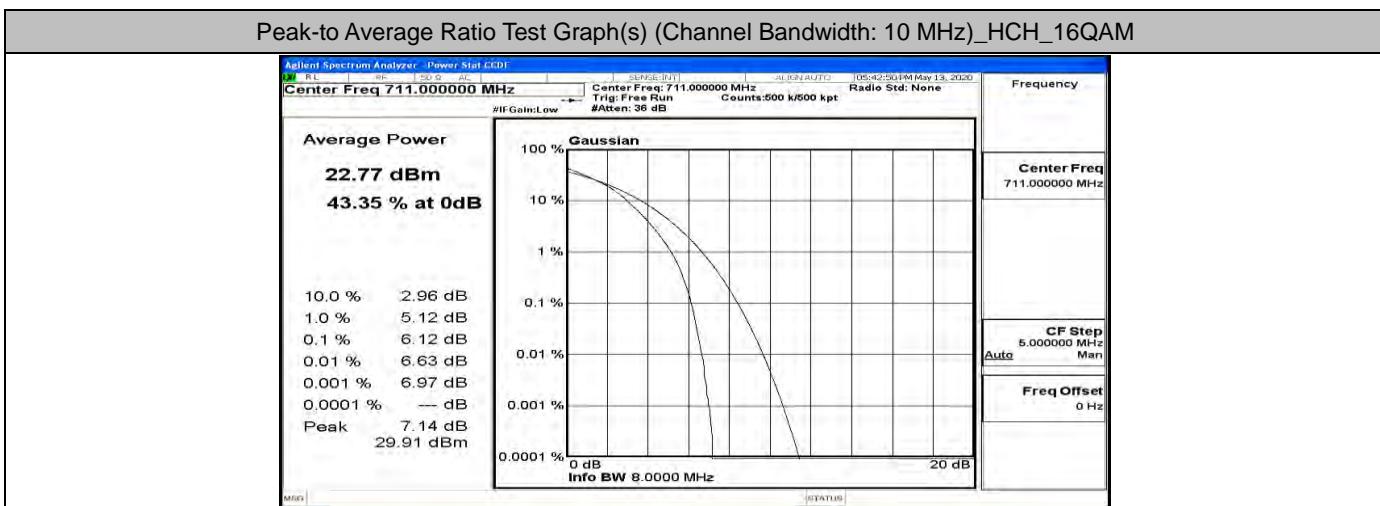
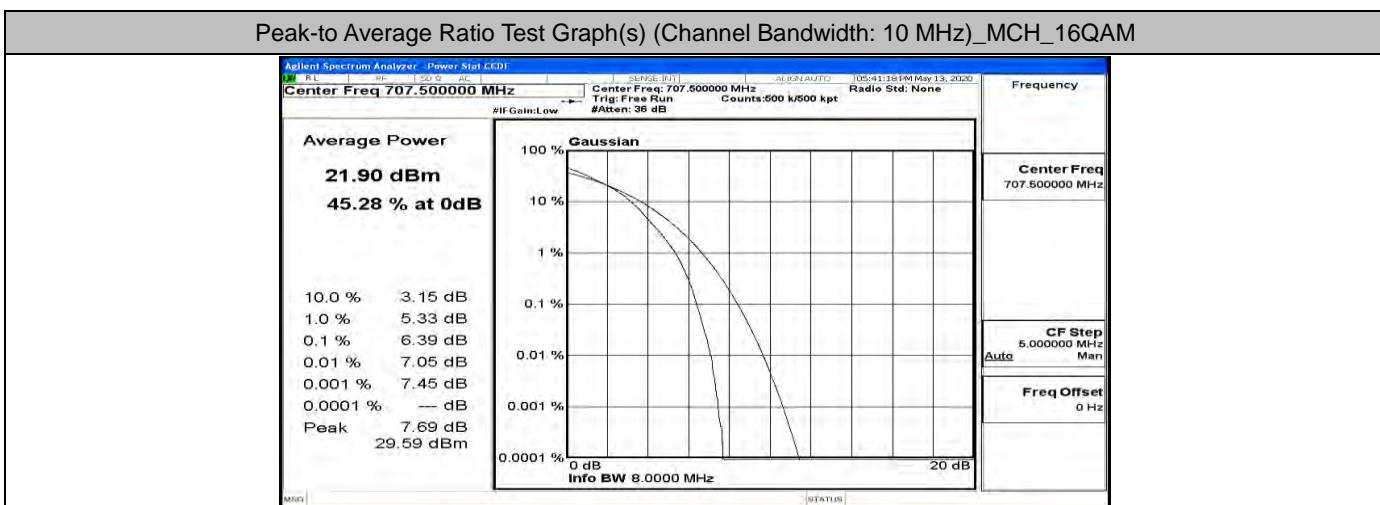
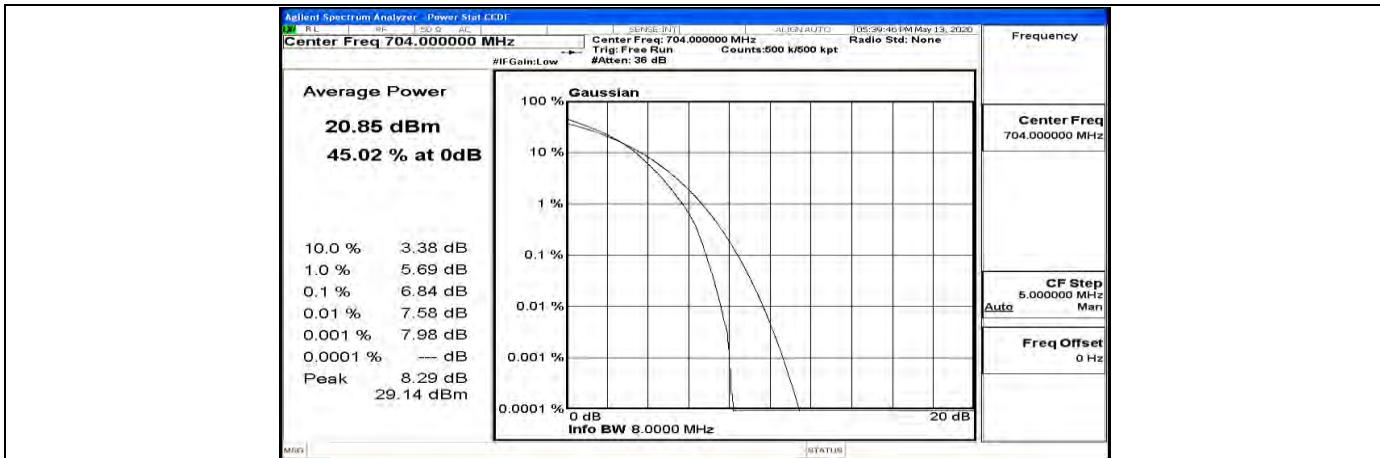


Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



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





I.3 26dB Bandwidth and Occupied Bandwidth

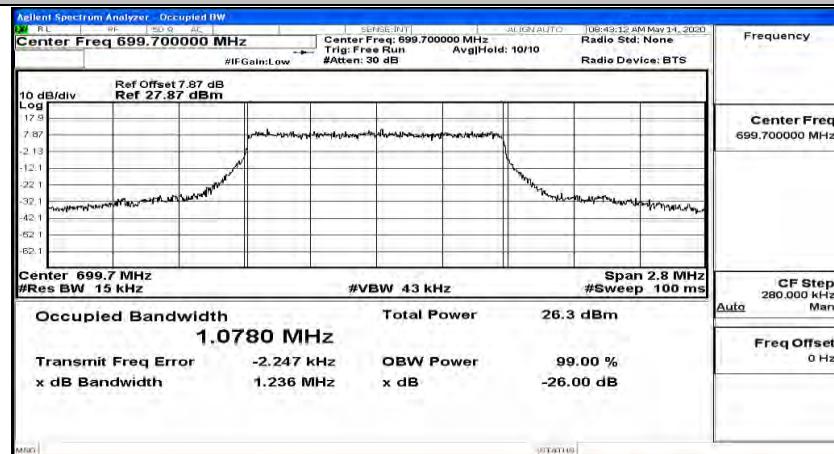
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0780	1.236	PASS
	MCH	1.0761	1.222	PASS
	HCH	1.0770	1.224	PASS
16QAM	LCH	1.0812	1.250	PASS
	MCH	1.0773	1.235	PASS
	HCH	1.0819	1.221	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6832	2.884	PASS
	MCH	2.6834	2.890	PASS
	HCH	2.6780	2.885	PASS
16QAM	LCH	2.6873	2.891	PASS
	MCH	2.6776	2.862	PASS
	HCH	2.6843	2.885	PASS

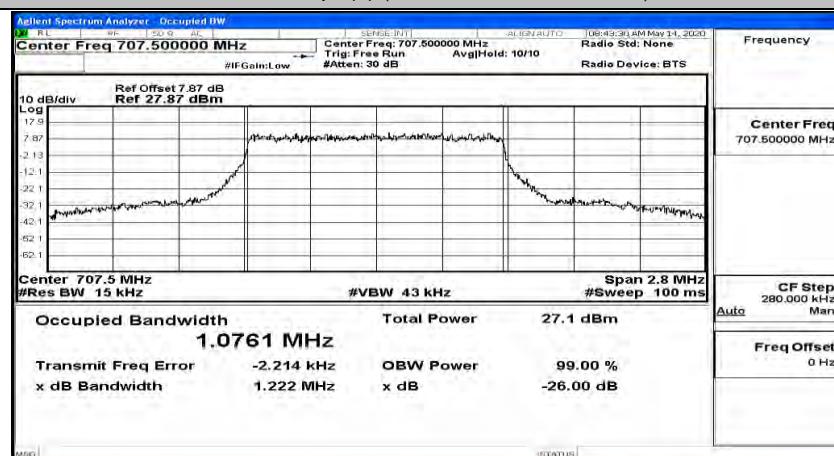
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4807	4.789	PASS
	MCH	4.4652	4.771	PASS
	HCH	4.4651	4.756	PASS
16QAM	LCH	4.4719	4.848	PASS
	MCH	4.4718	4.796	PASS
	HCH	4.4569	4.772	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9369	9.500	PASS
	MCH	8.9178	9.407	PASS
	HCH	8.9185	9.461	PASS
16QAM	LCH	8.9351	9.475	PASS
	MCH	8.9094	9.356	PASS
	HCH	8.9320	9.414	PASS

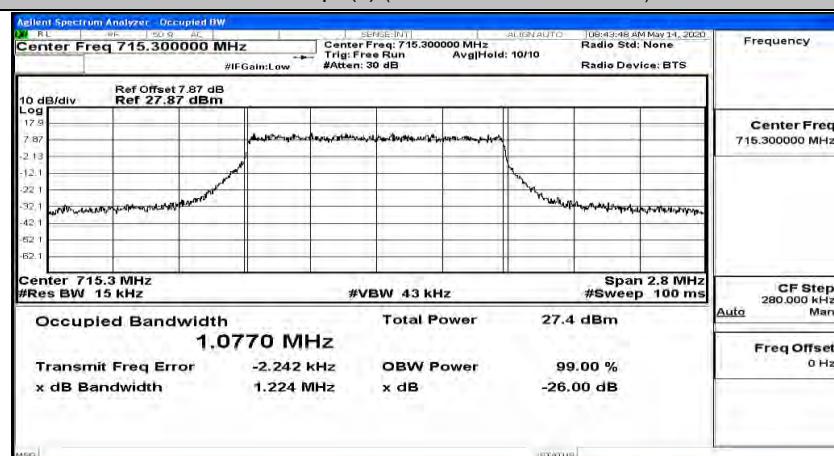
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



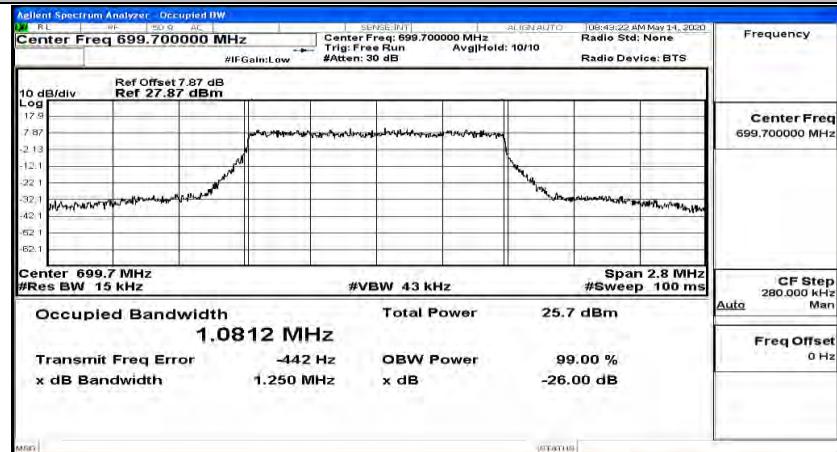
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



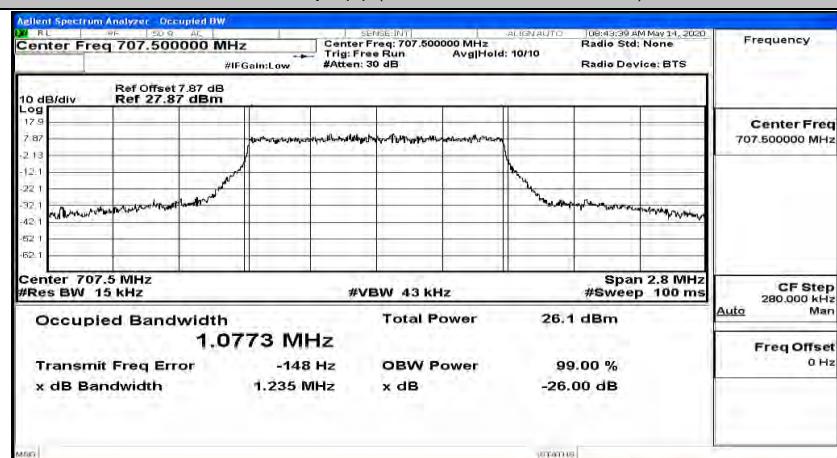
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



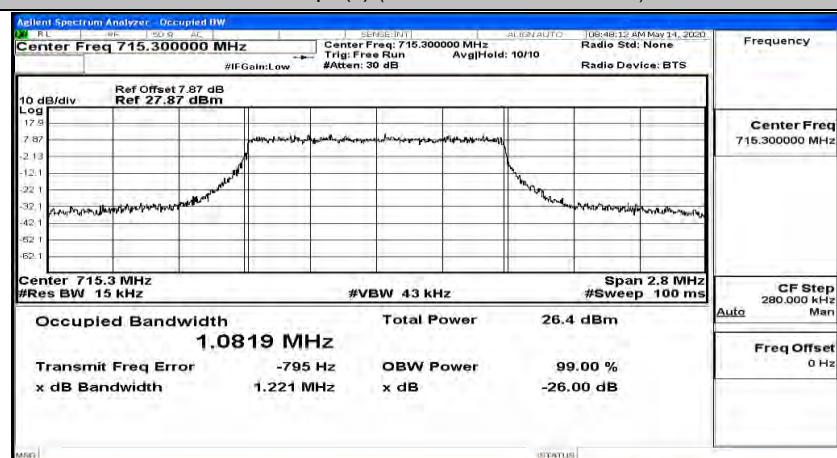
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



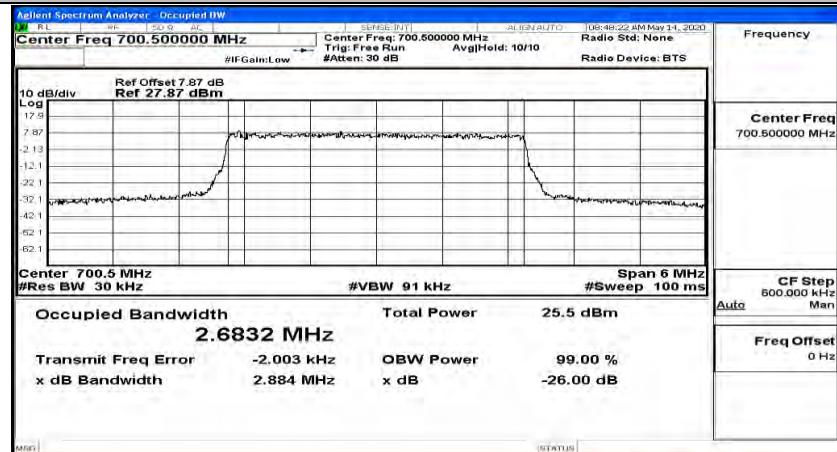
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



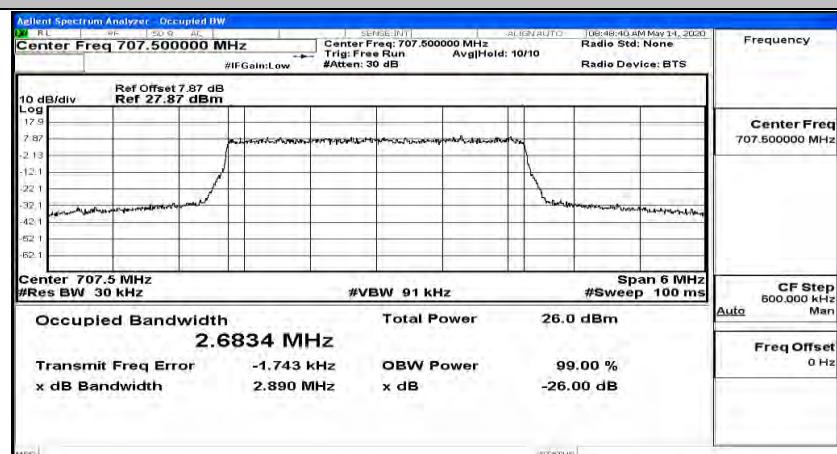
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



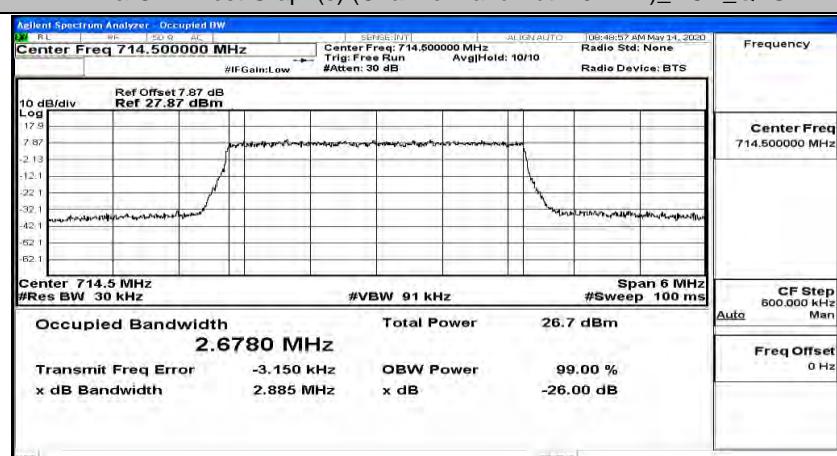
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



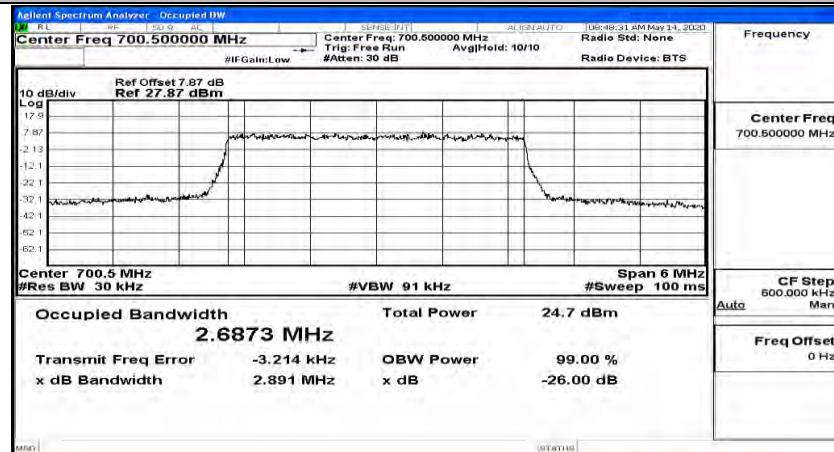
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



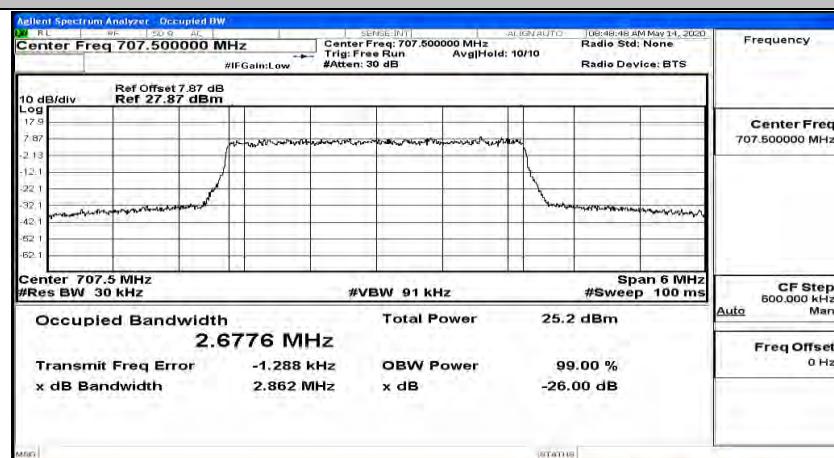
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



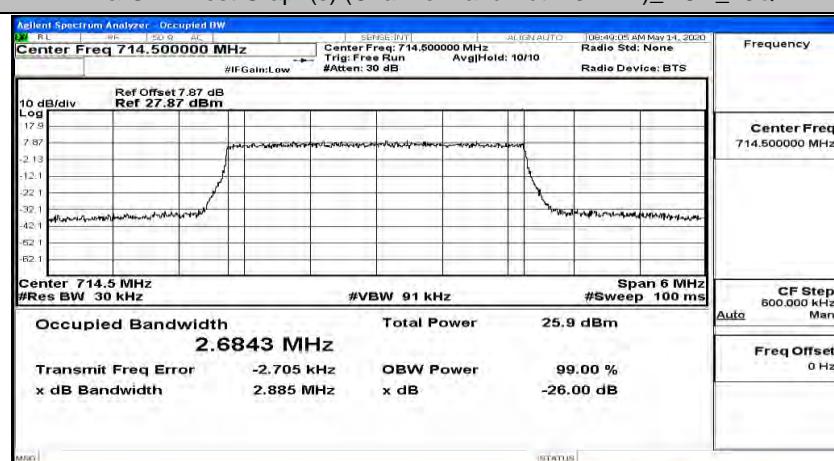
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



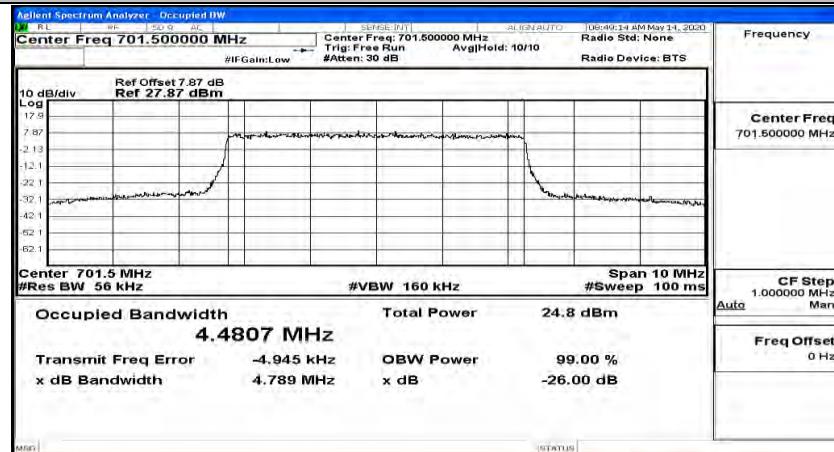
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



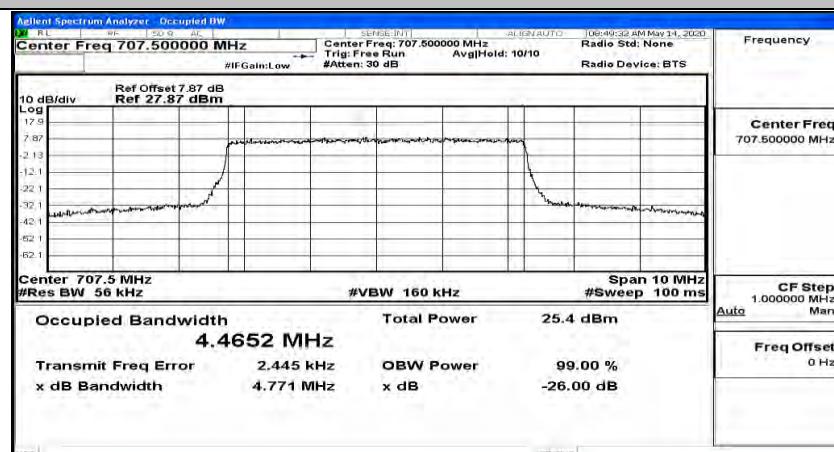
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



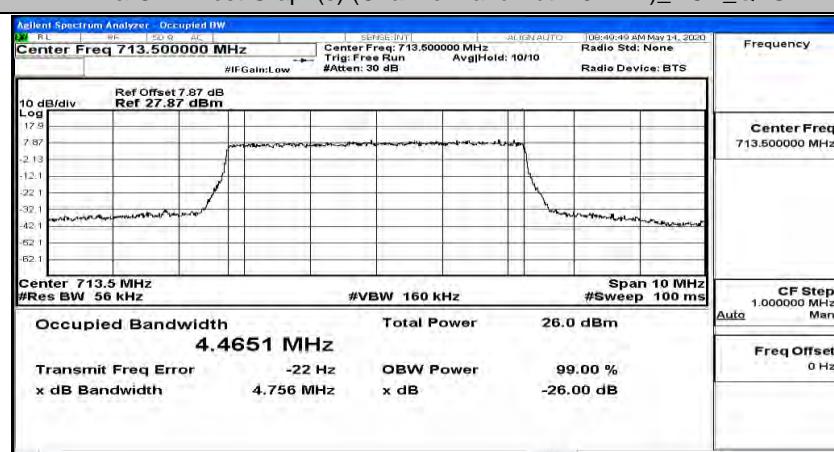
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



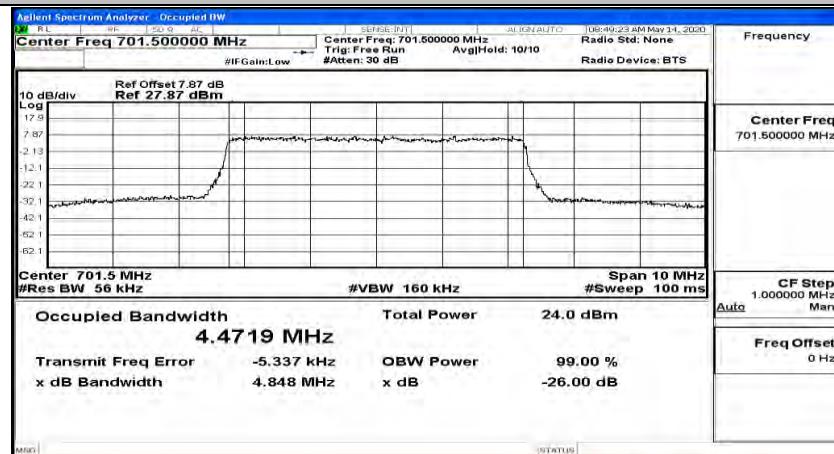
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



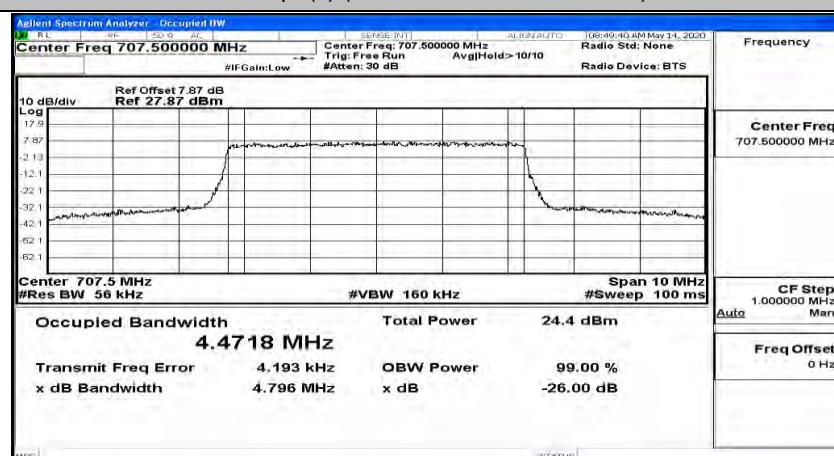
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



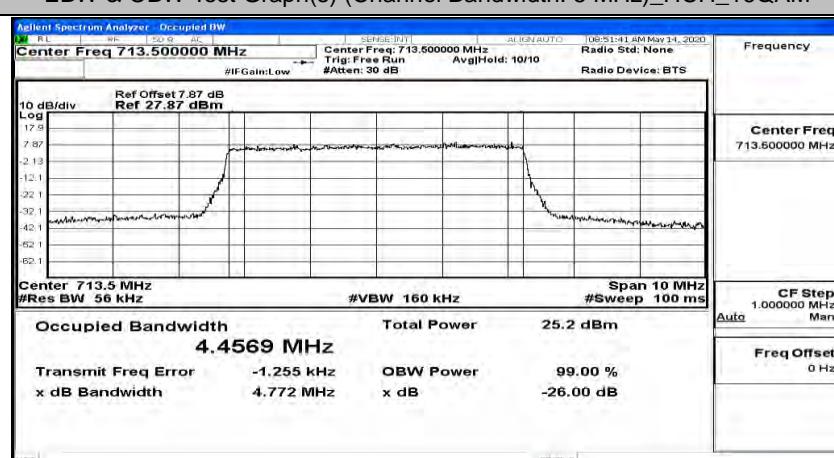
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



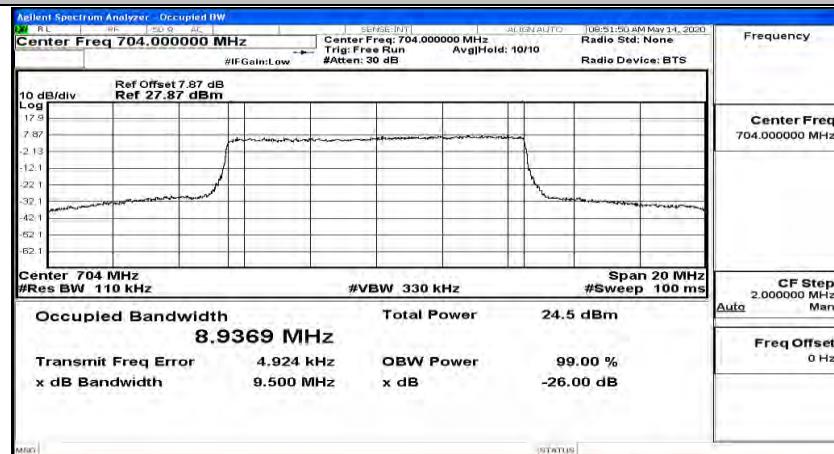
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



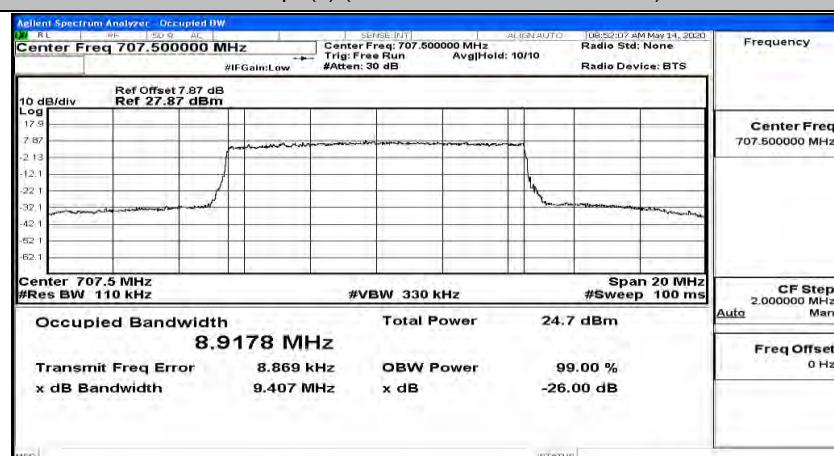
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



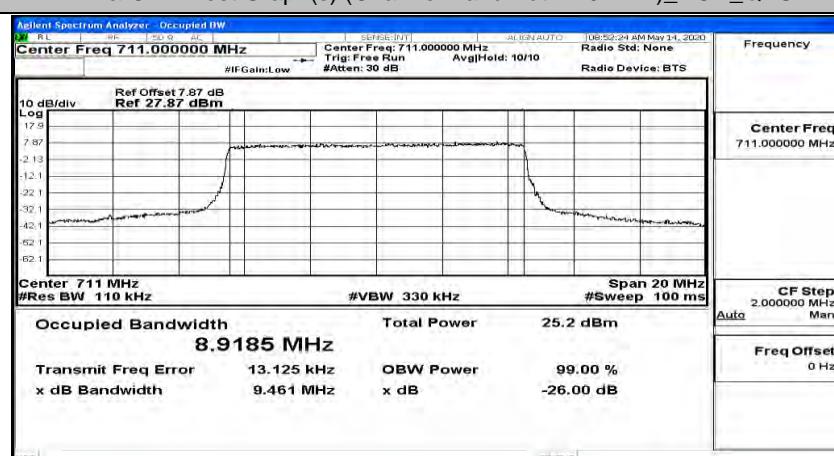
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



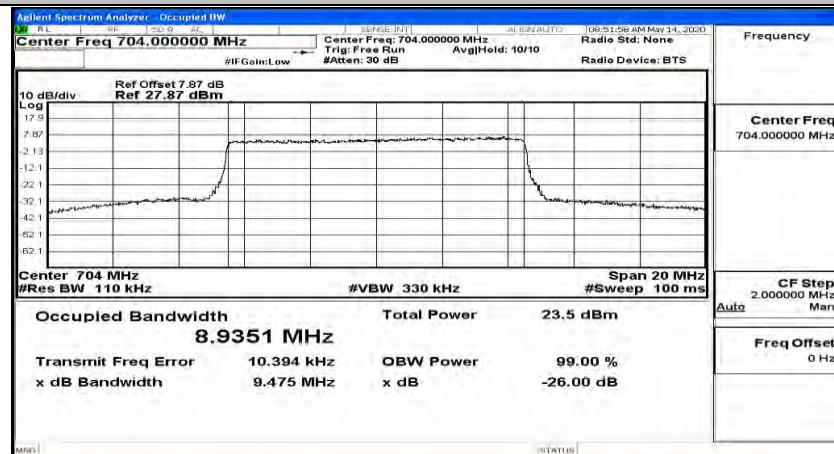
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



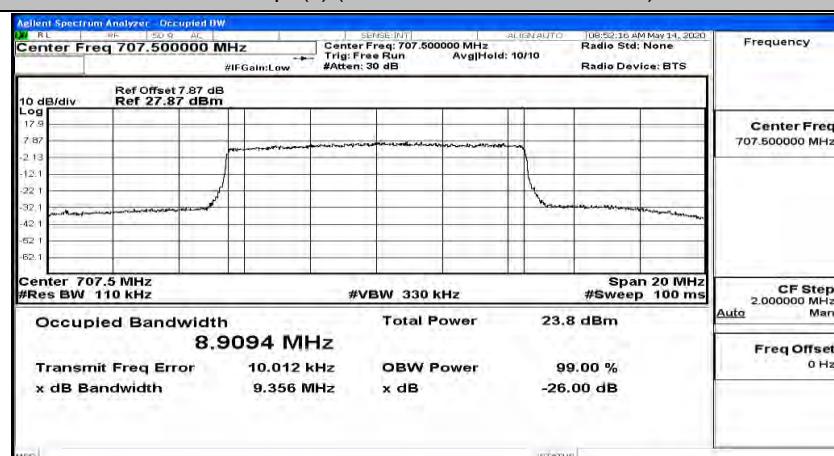
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



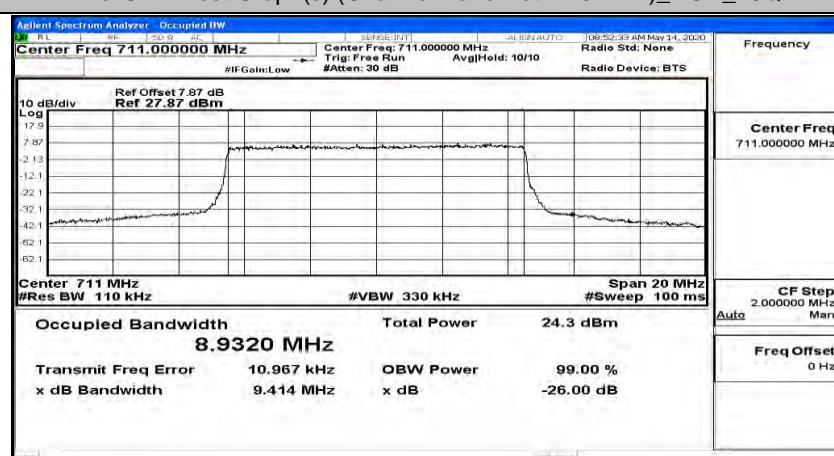
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

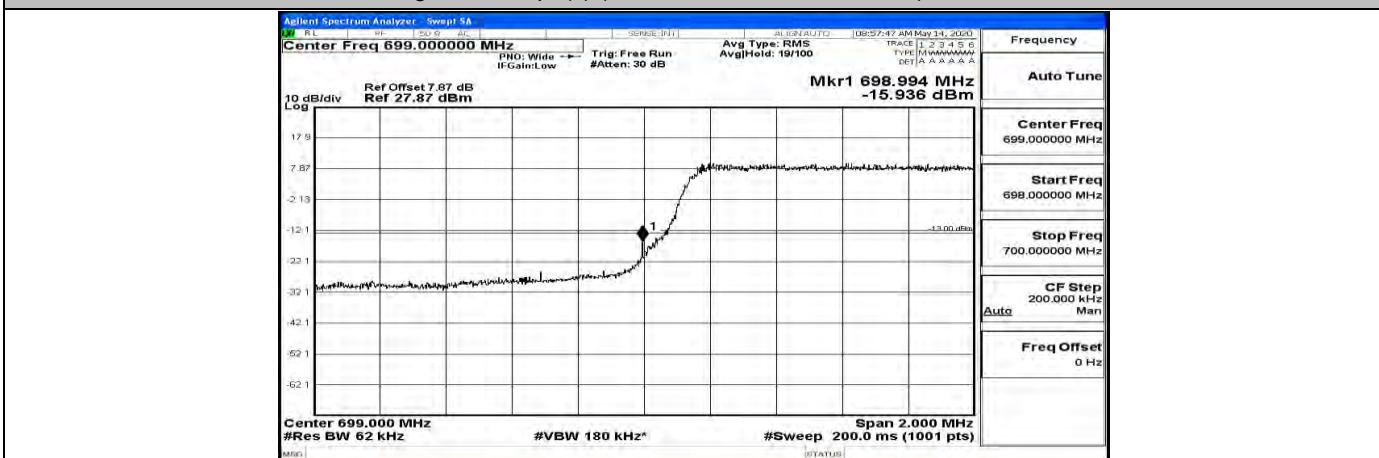


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

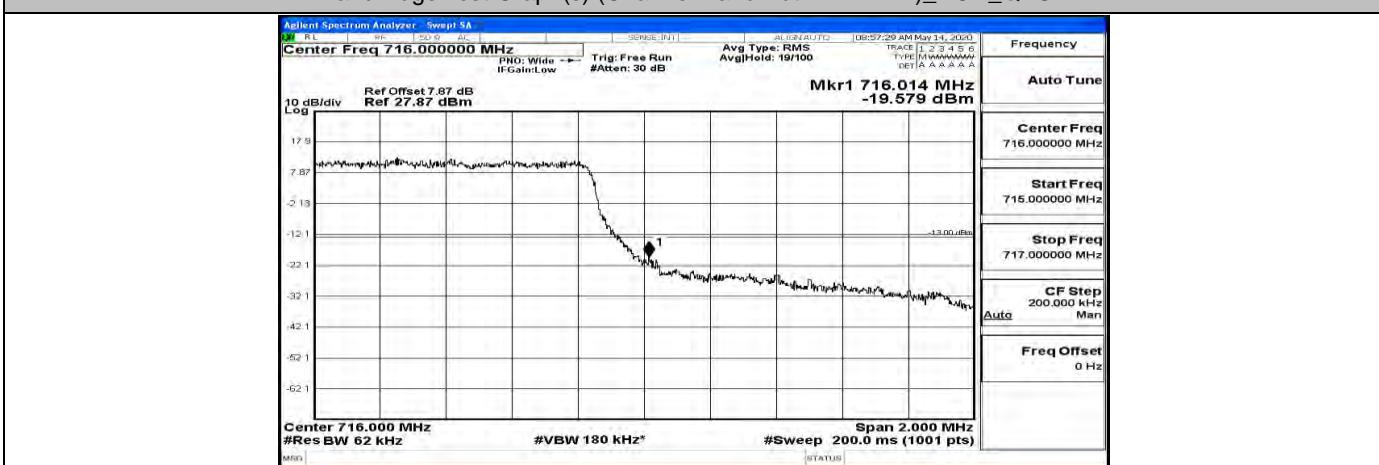


I.4 Band Edge

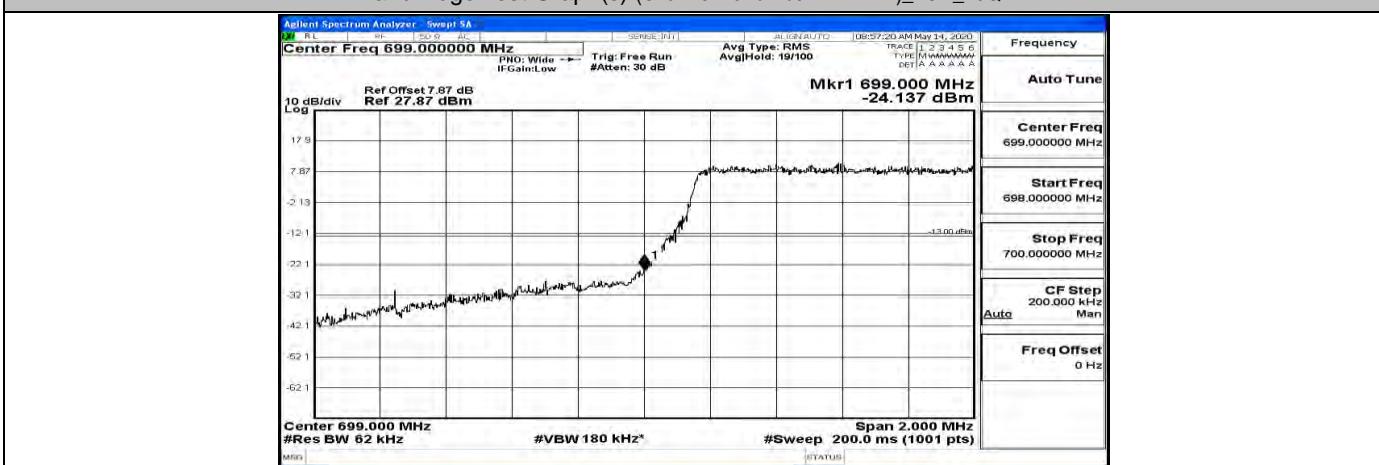
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



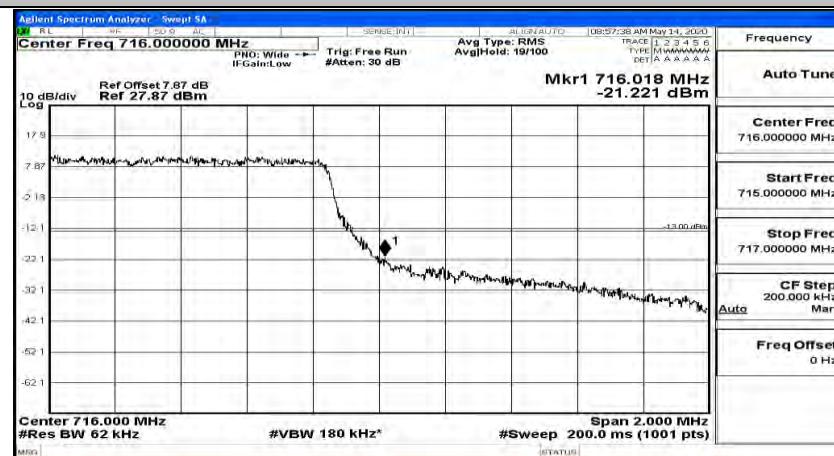
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



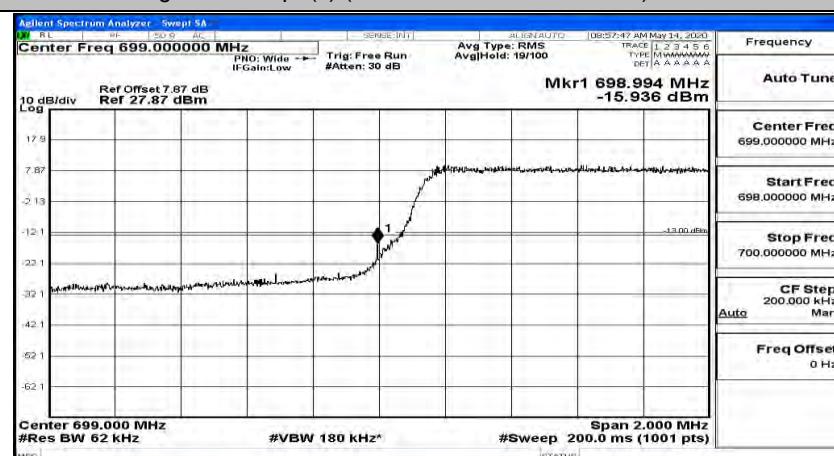
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



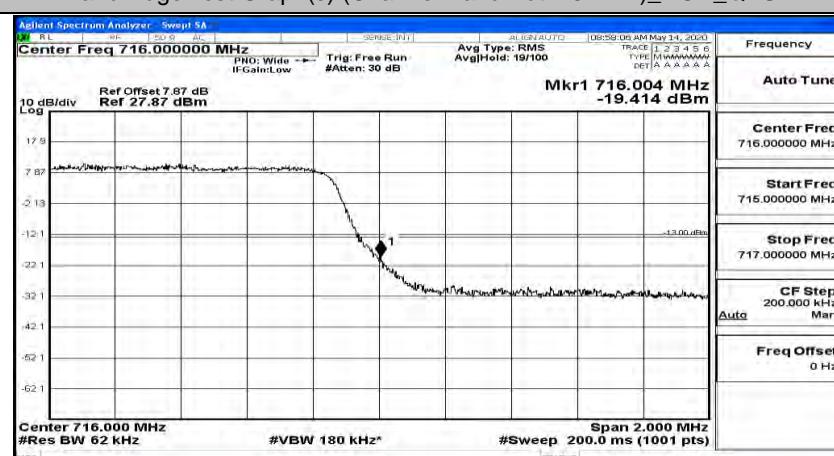
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



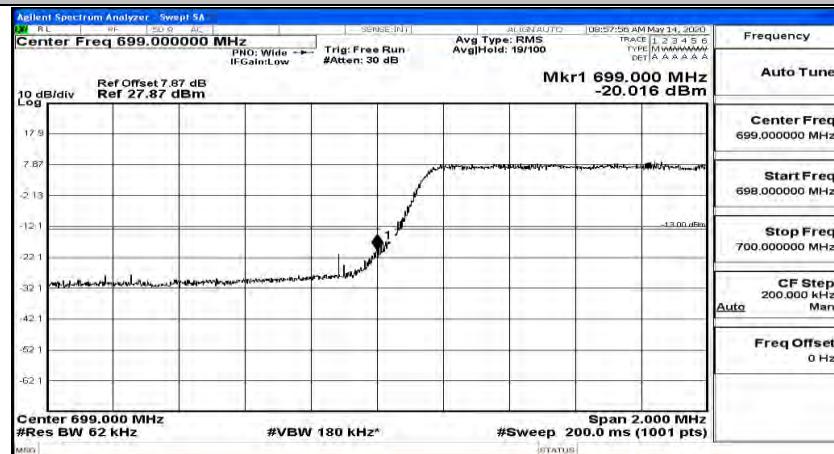
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



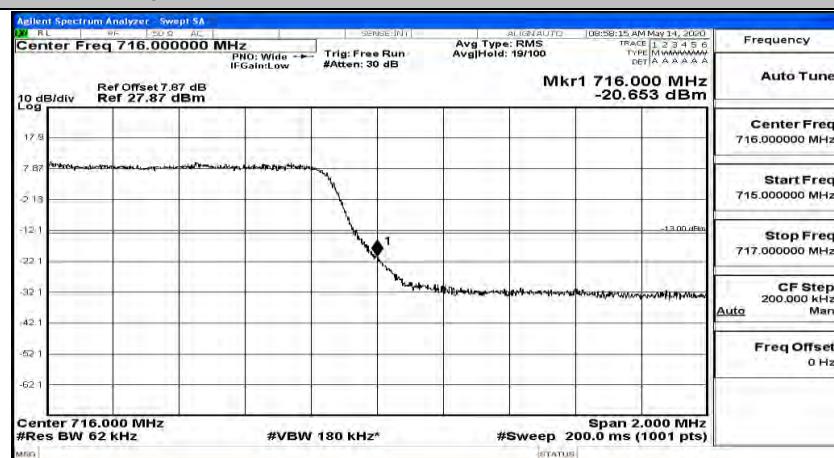
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



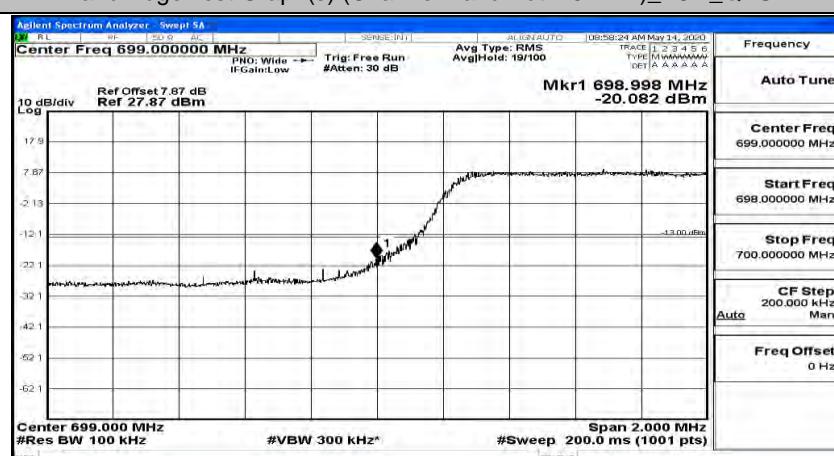
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



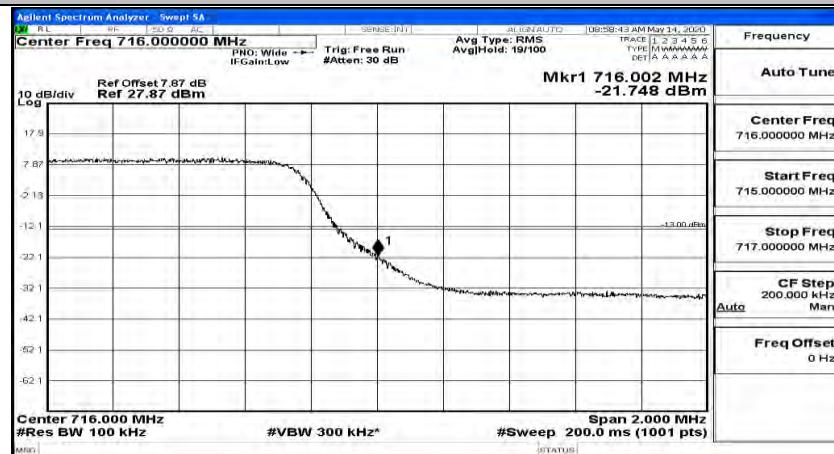
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



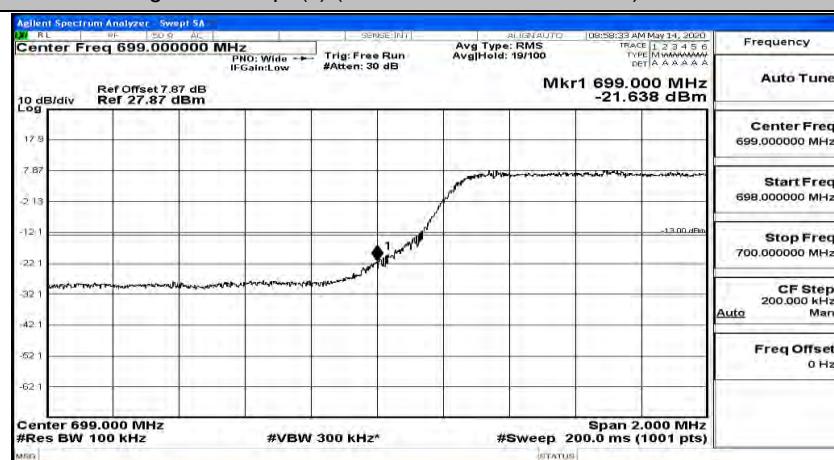
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



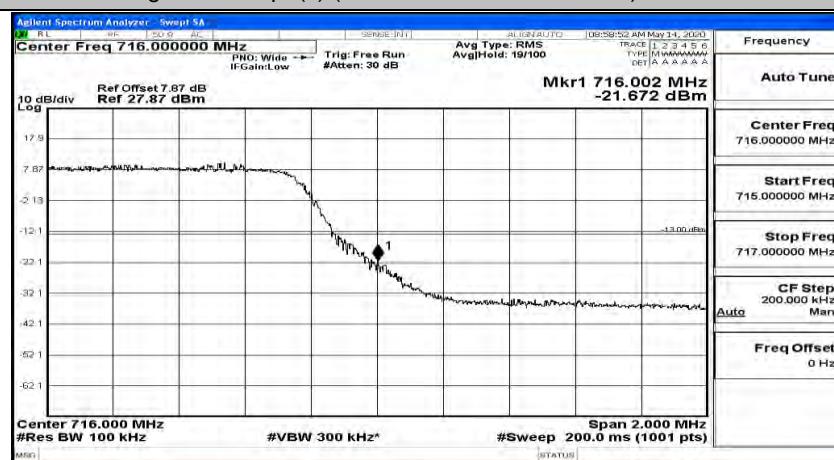
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



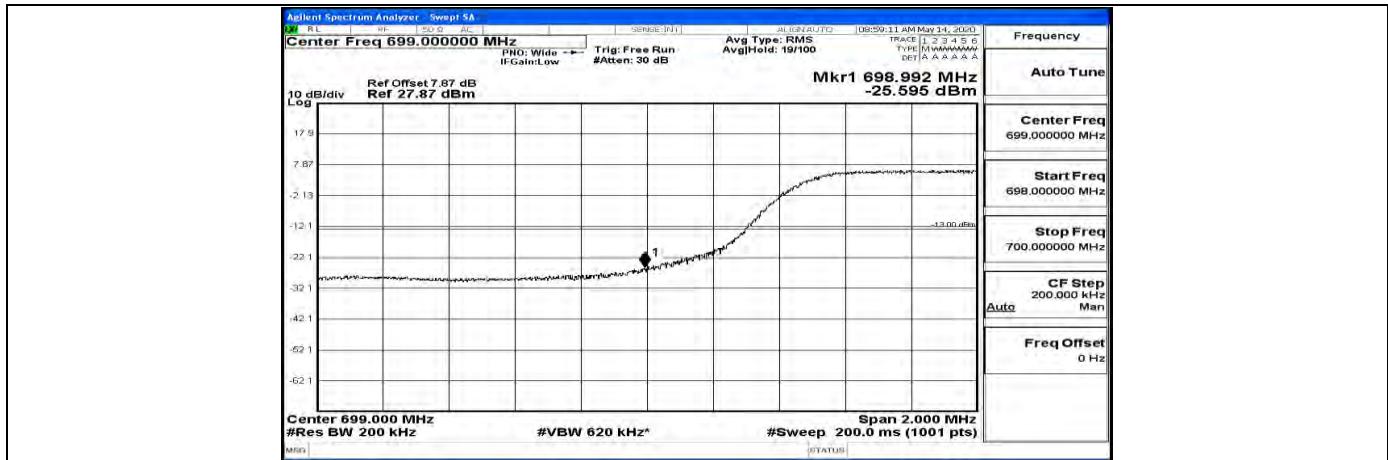
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



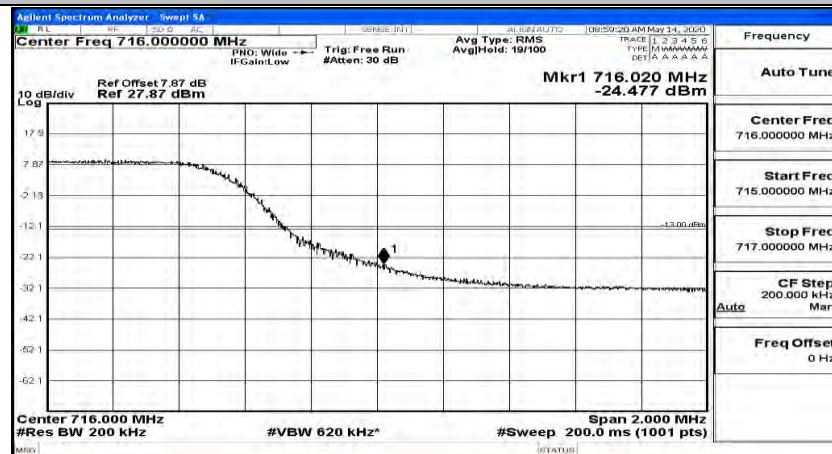
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



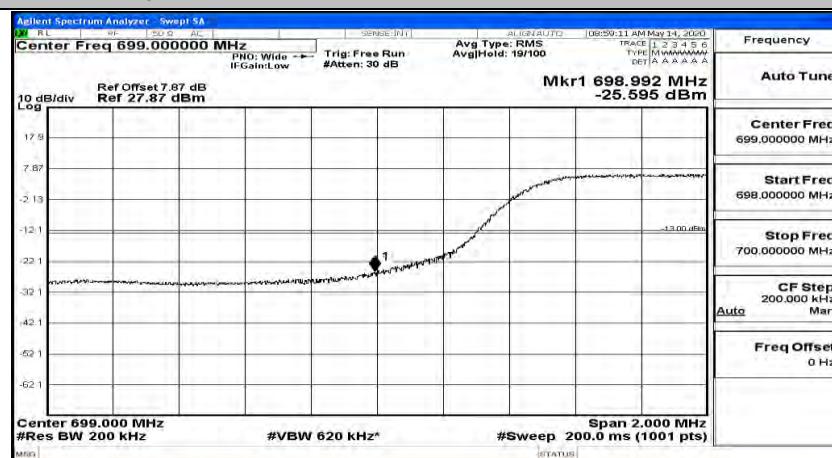
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



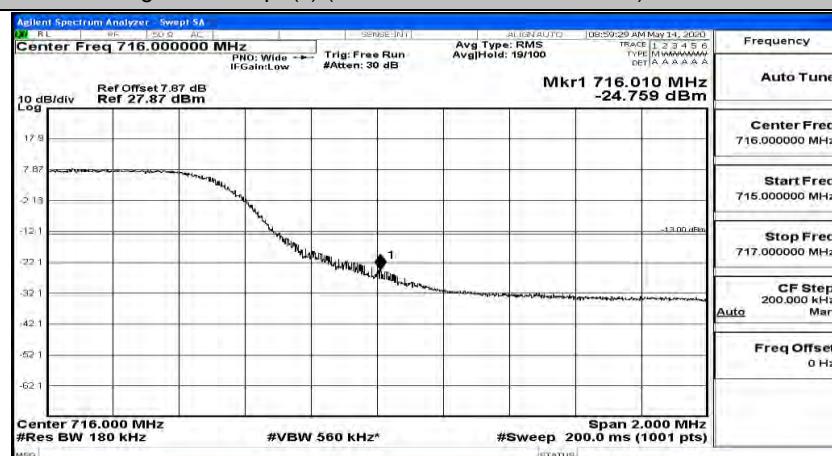
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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

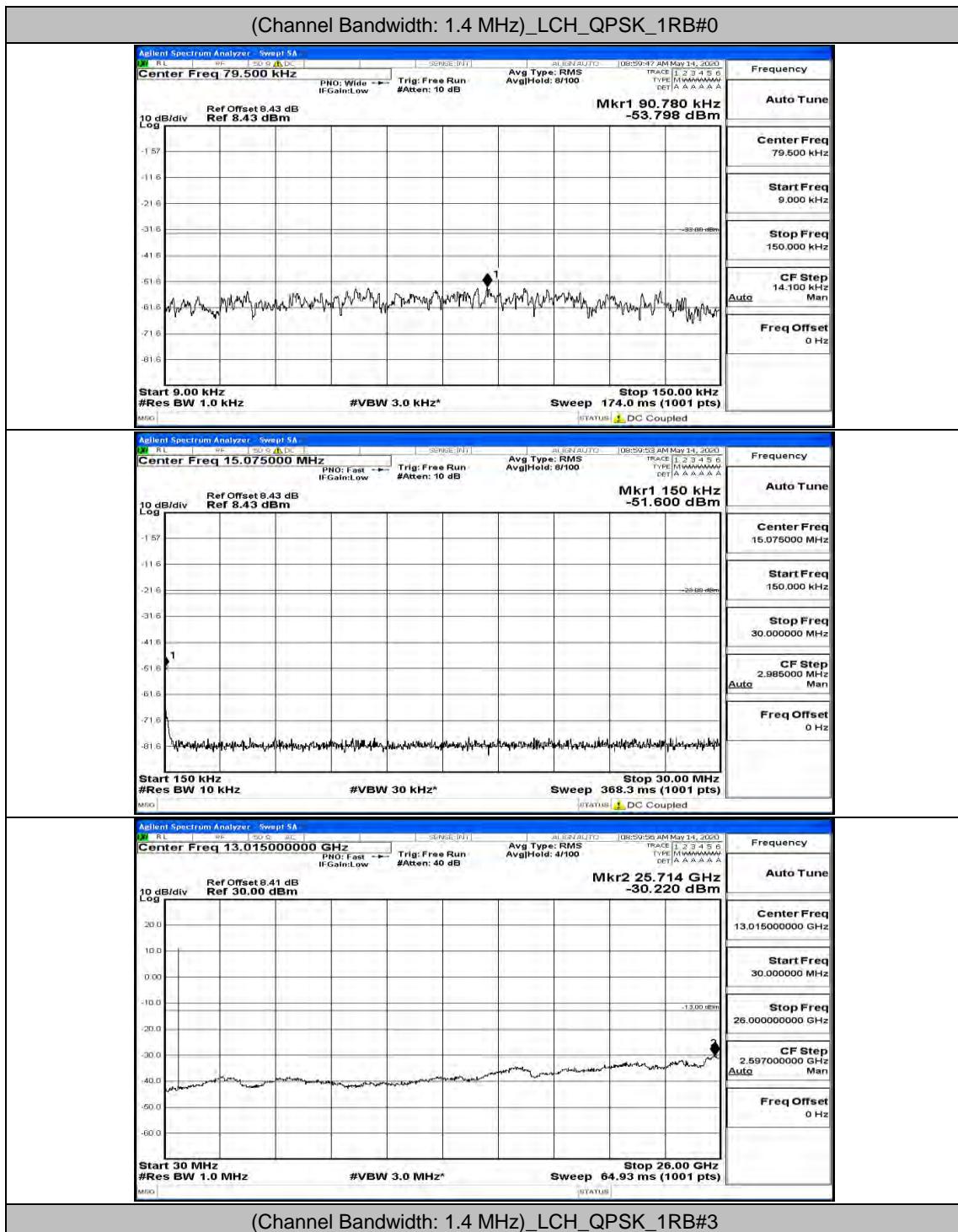


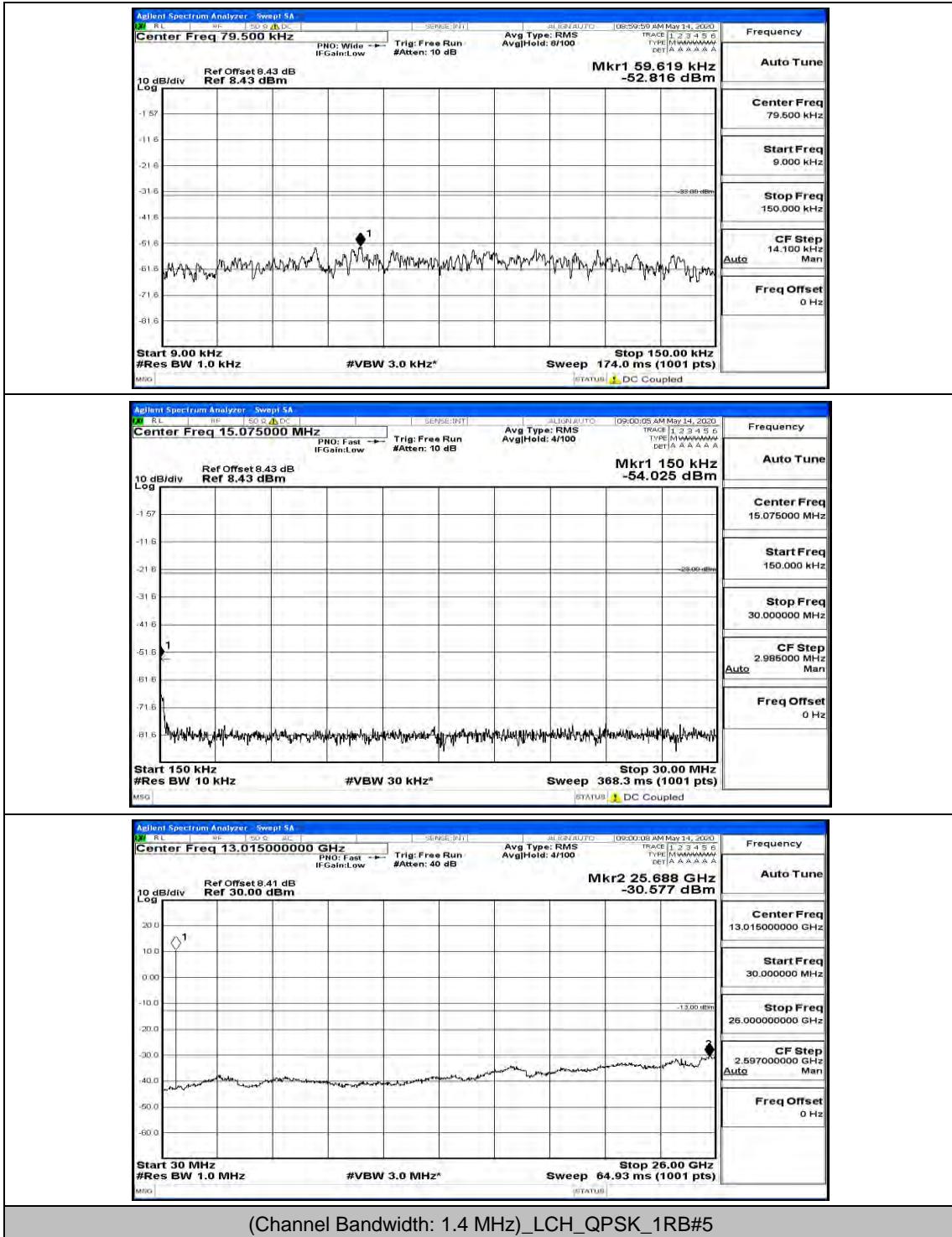
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

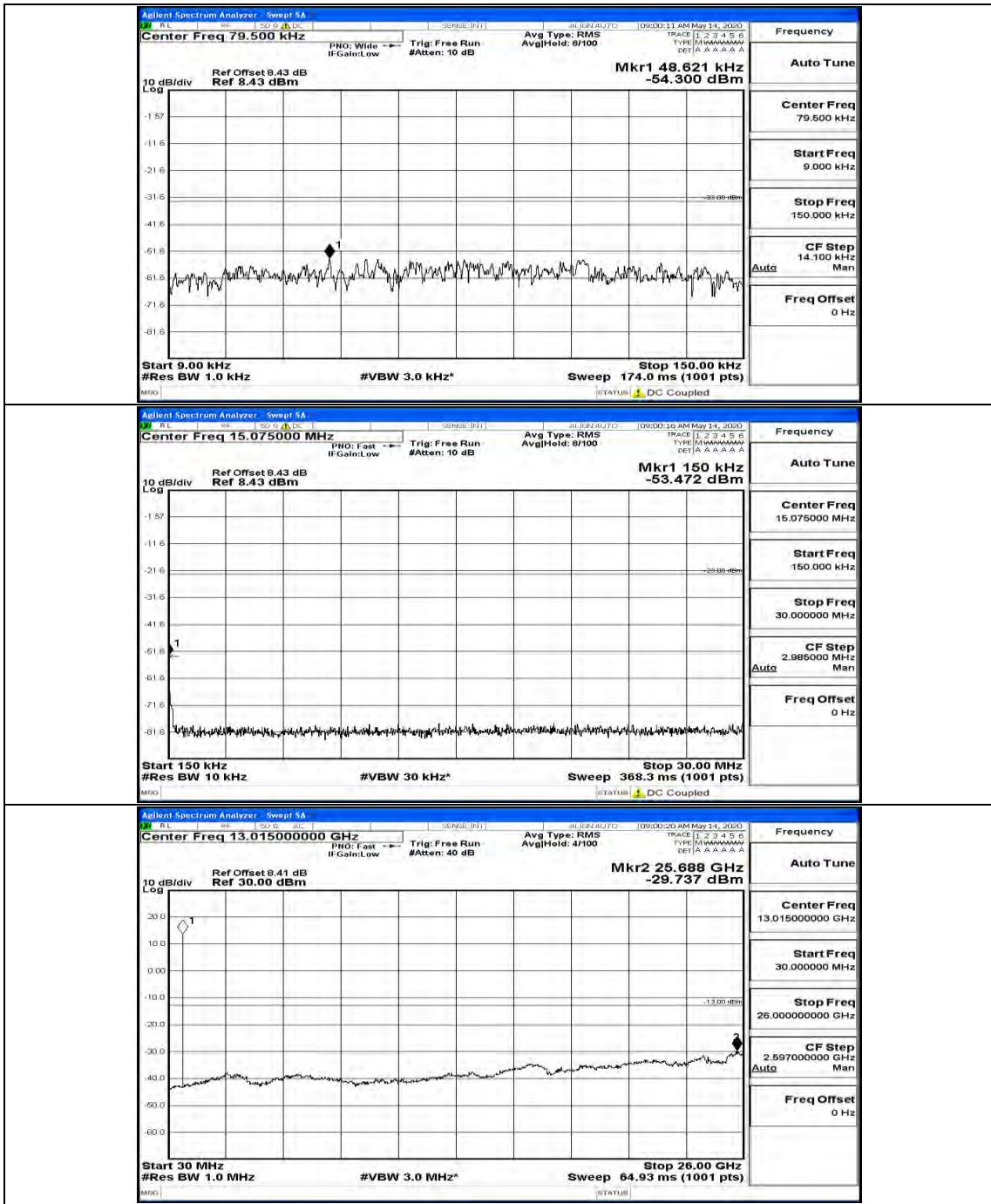


I.5 Conducted Spurious Emission

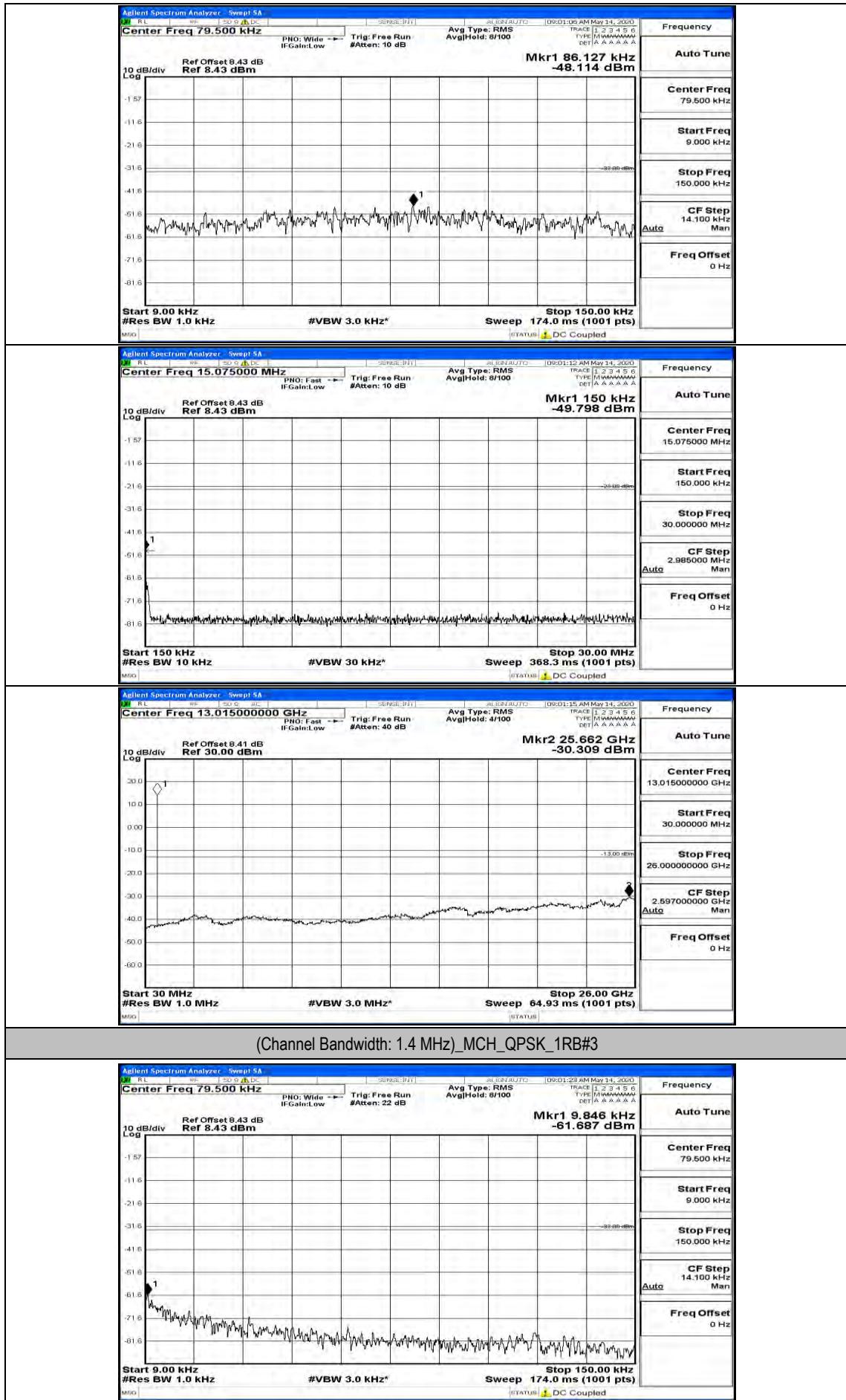
Channel Bandwidth: 1.4 MHz

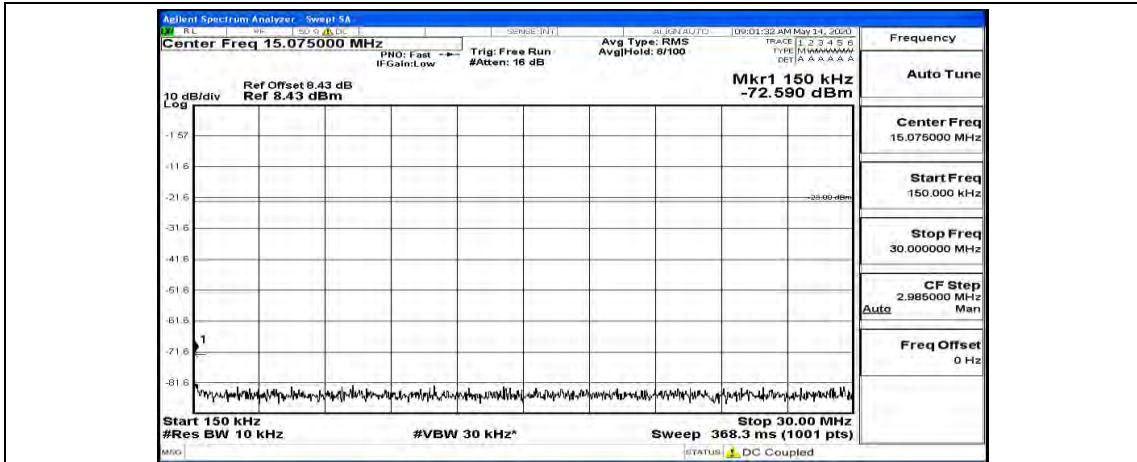




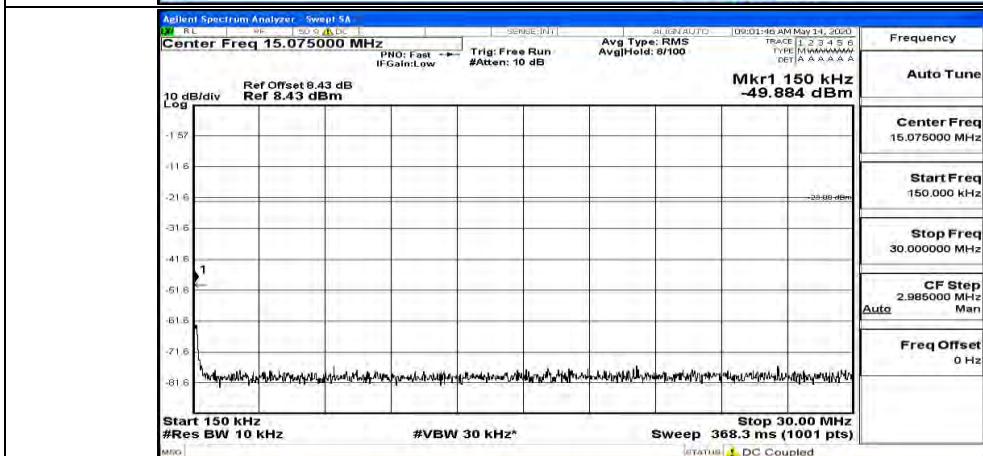
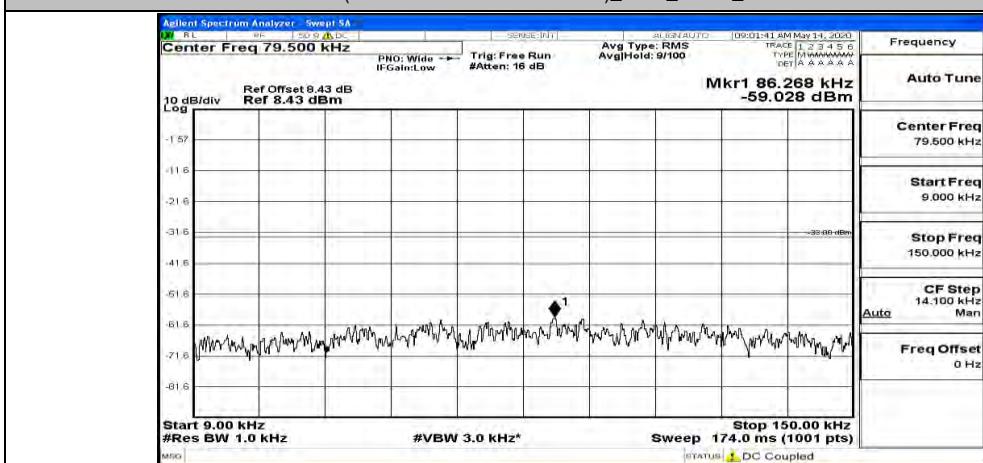


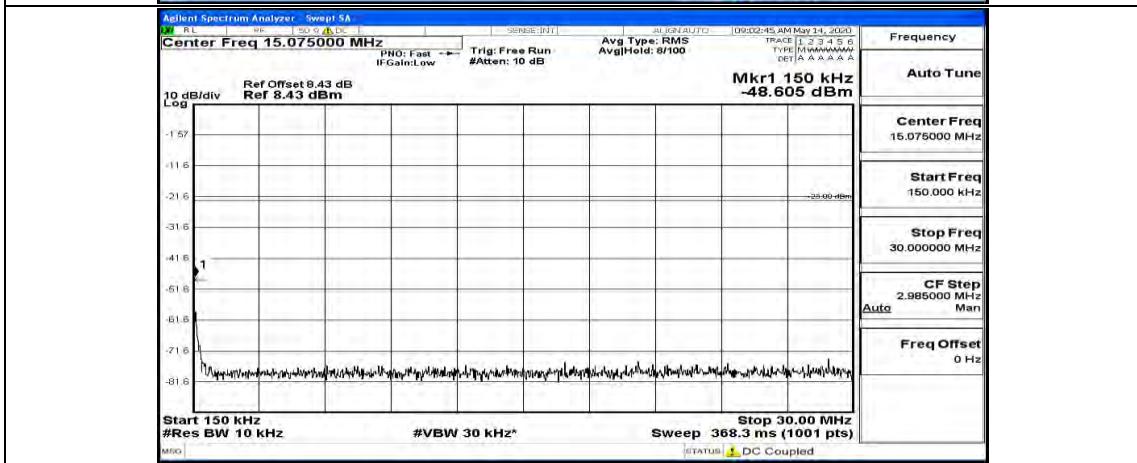
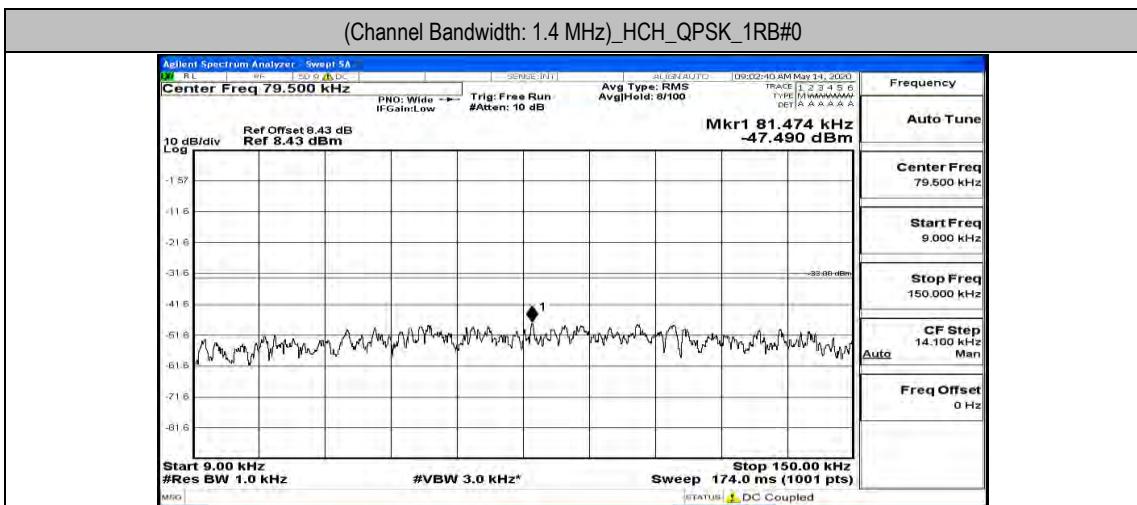
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

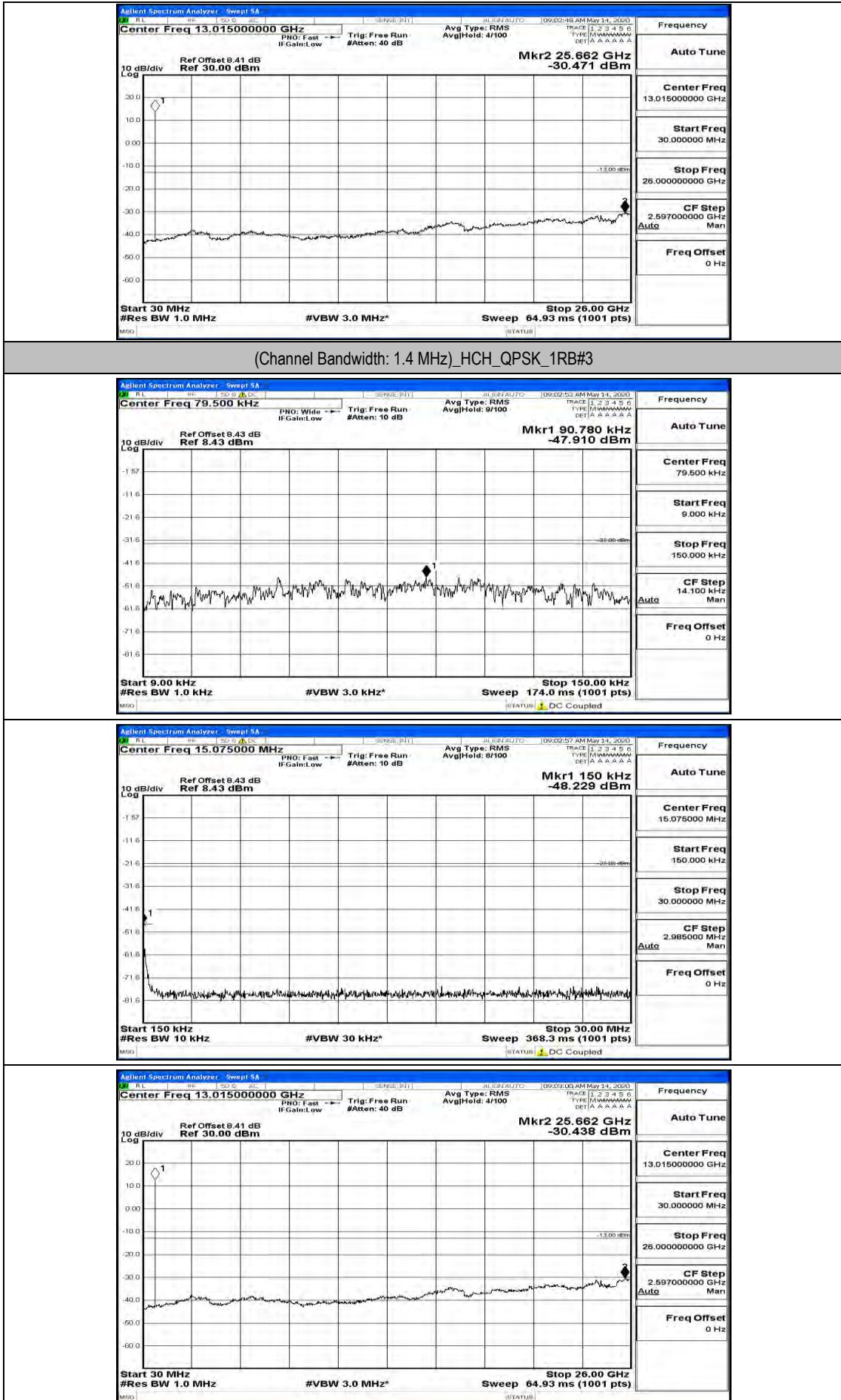


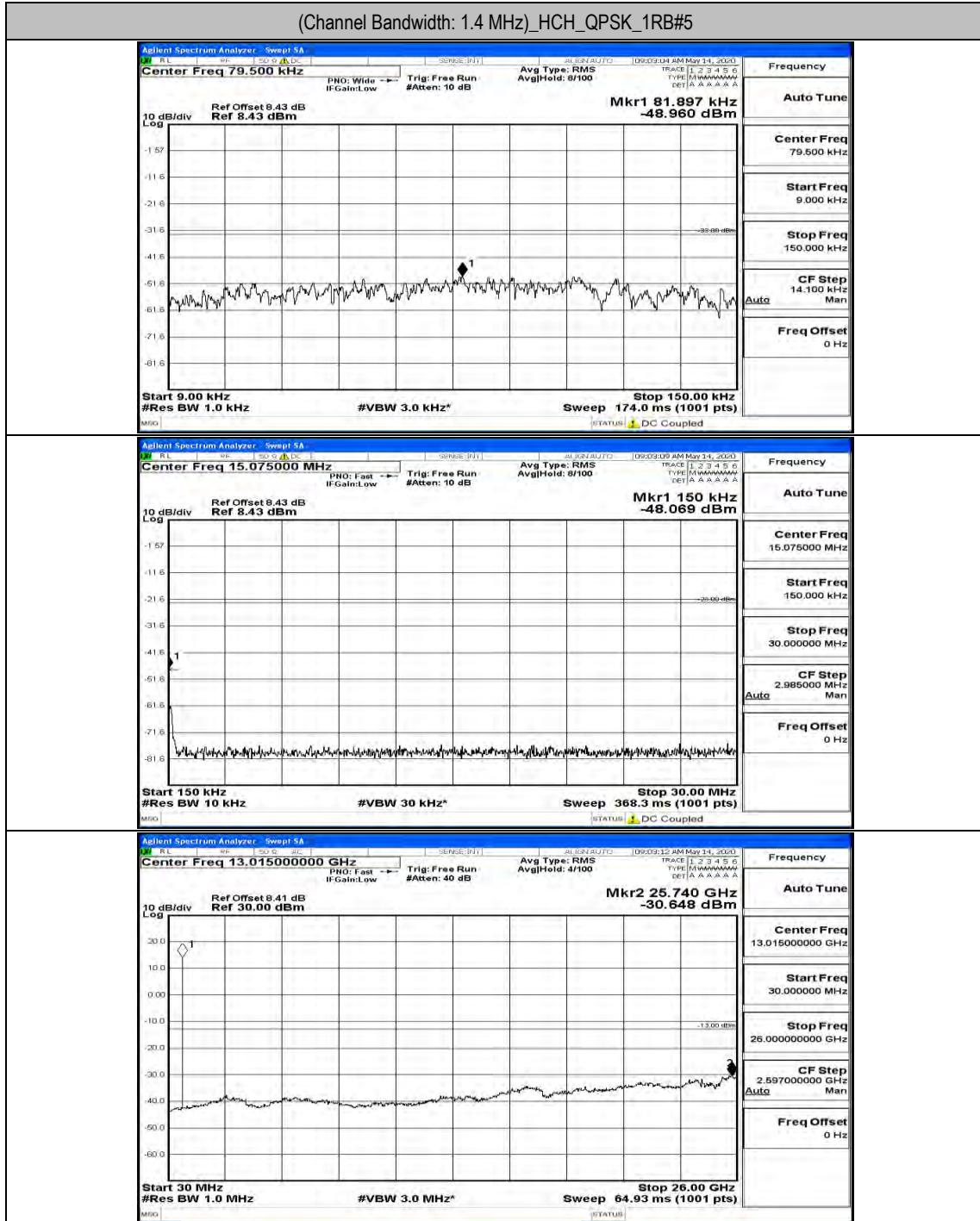


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5

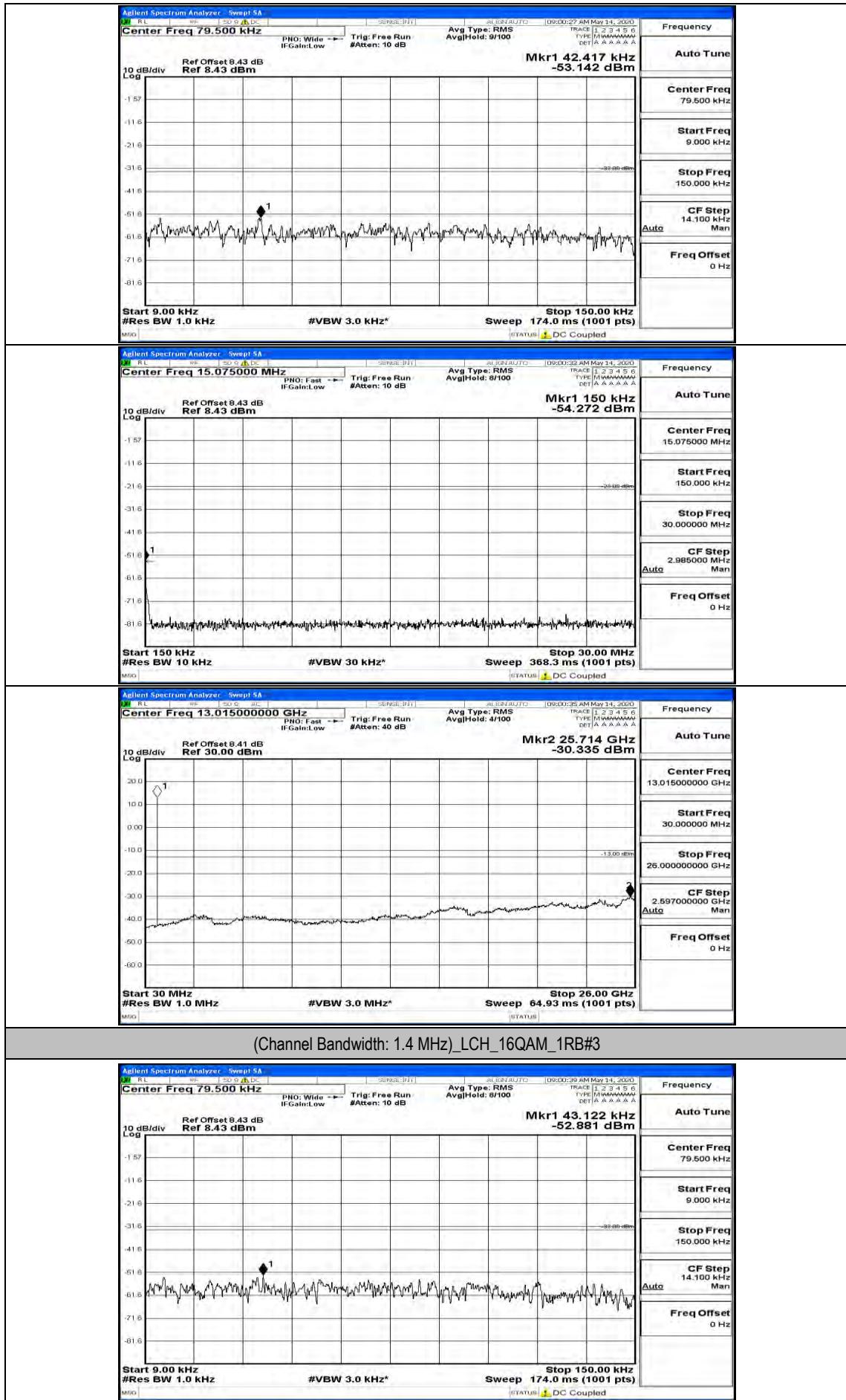


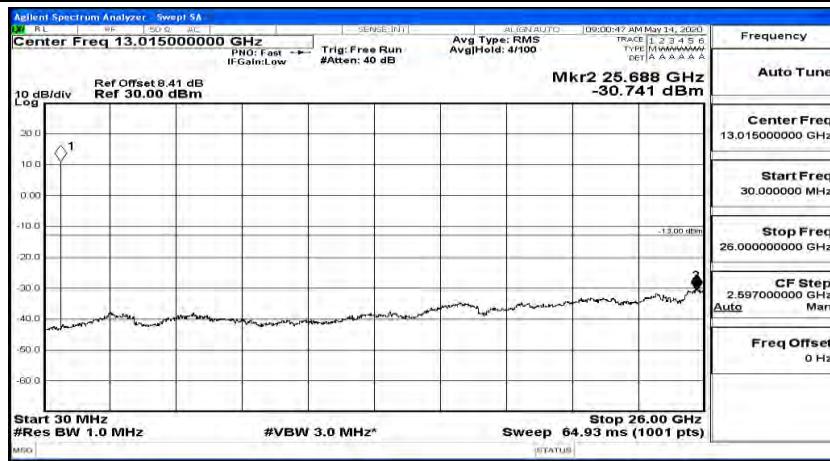
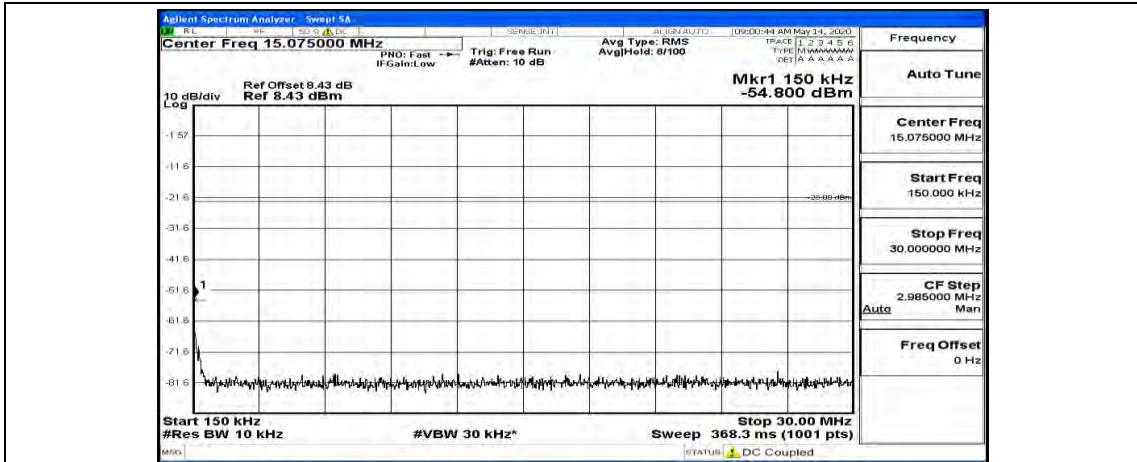




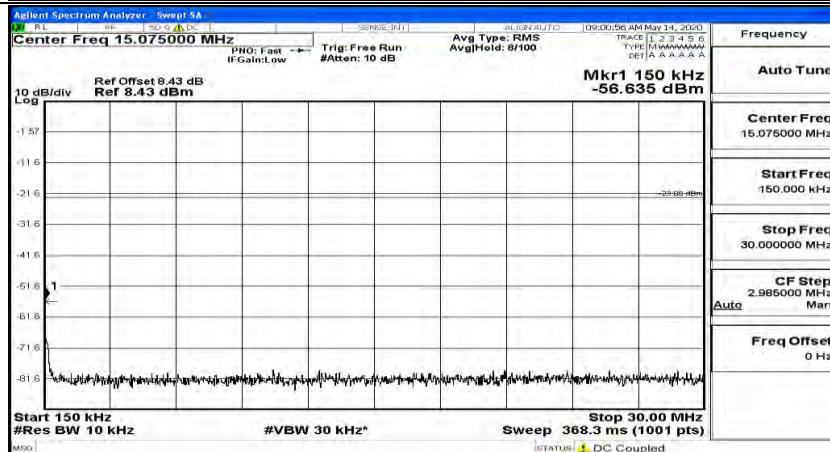
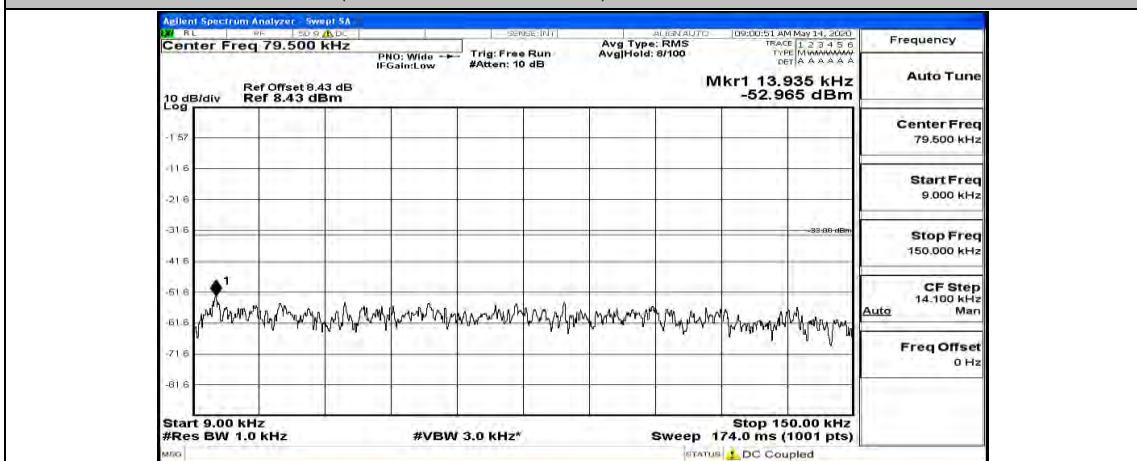


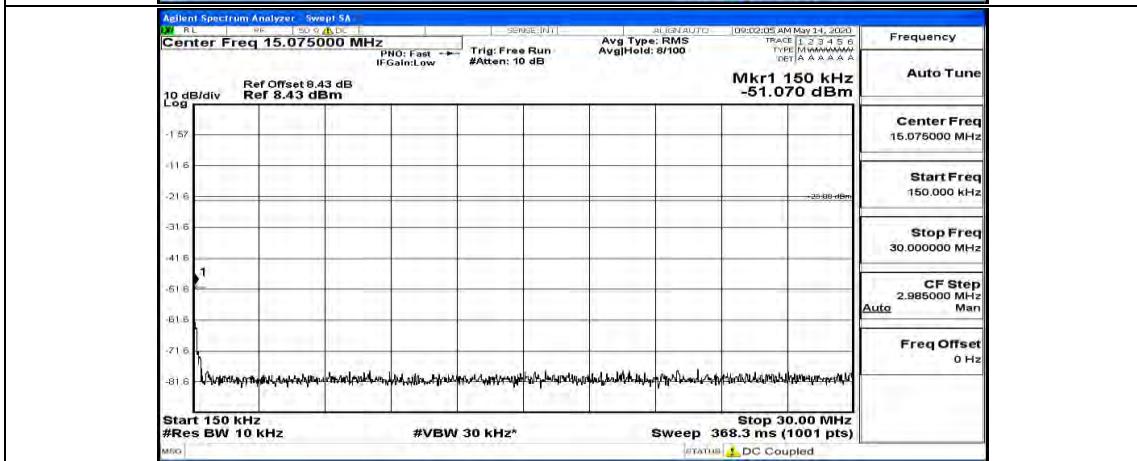
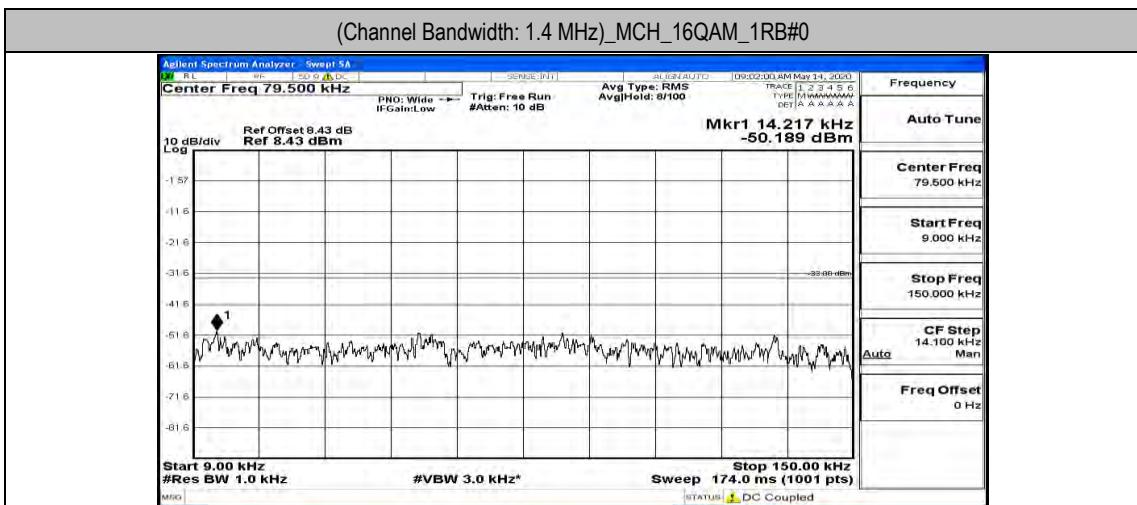
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0





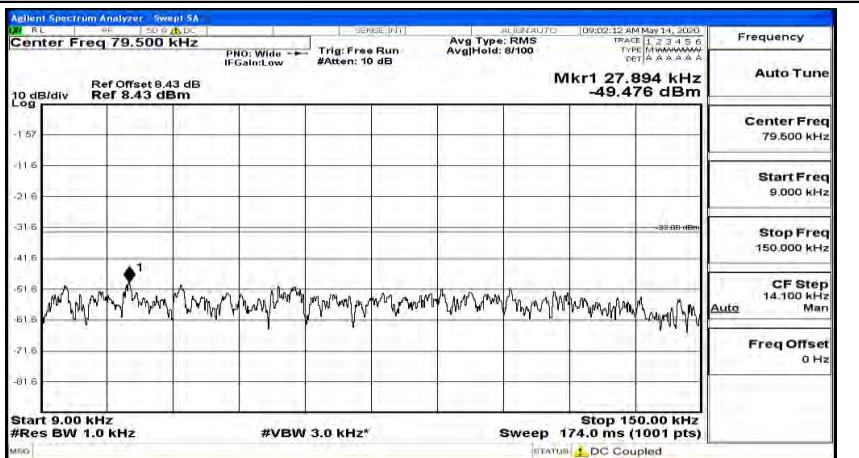
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5







(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



Adient Spectrum Analyzer - Sweep 5A

Center Freq 15.075000 MHz

PNO: Fast -> Trig: Free Run

IF Gain:Low #Atten: 10 dB

Avg Type: RMS AvgHold: 8/100

06/02/17 12:54:20

TRACE 1 2 3 4 5 6

TYPE AVERAGE

DET A A A A A A

Frequency

Auto Tune

Center Freq 15.075000 MHz

Start Freq 150.000 kHz

Stop Freq 30.000000 MHz

CF Step 2.985000 MHz

Auto Man

Freq Offset 0 Hz

10 dB/div LSSB

Ref Offset 8.43 dB
Ref 8.43 dBm

150 kHz

-1.57

-1.16

-21.6

-31.6

-41.6

-51.6

-61.6

-71.6

-81.6

Start 150 kHz

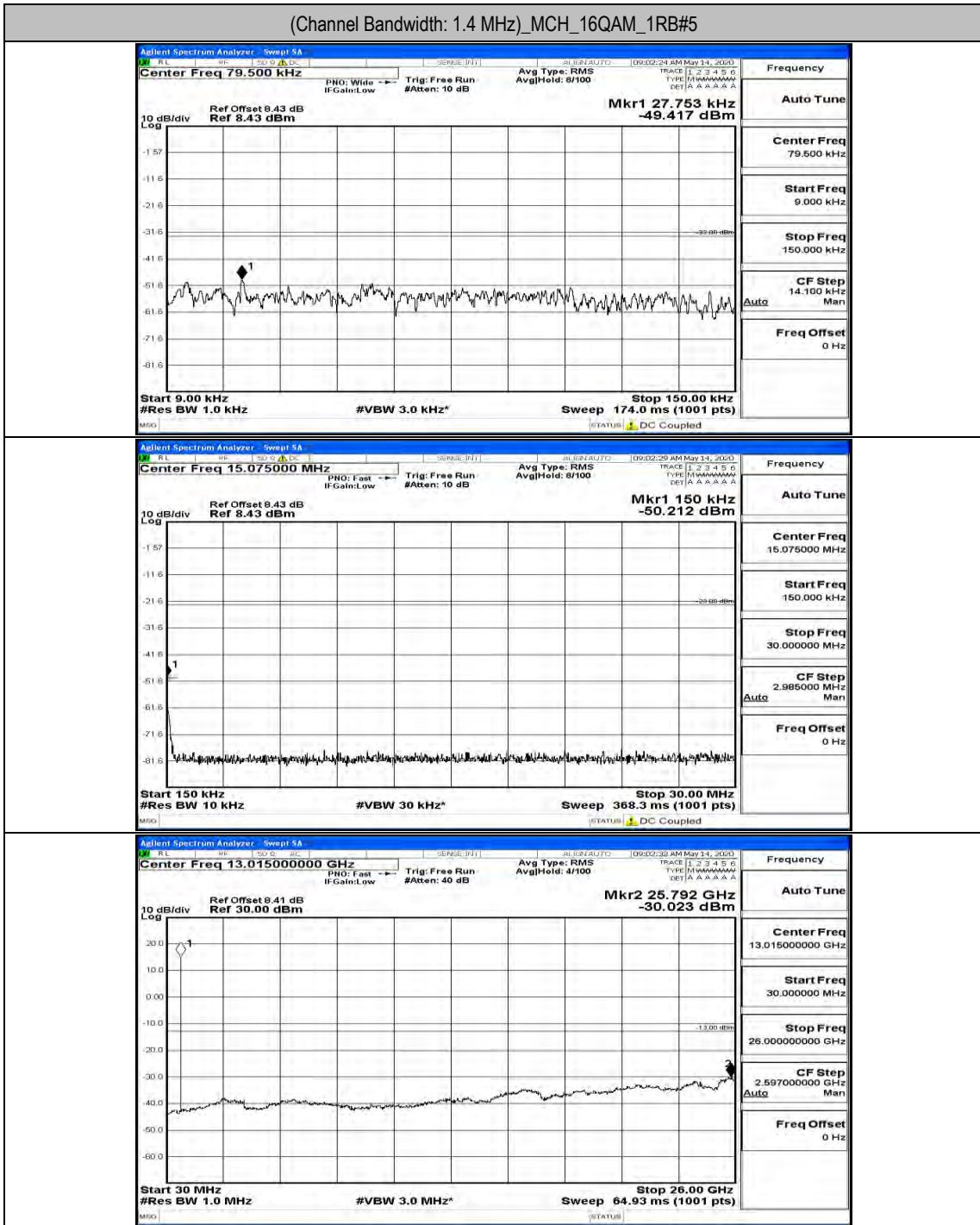
#Res BW 10 kHz

#VBW 30 kHz*

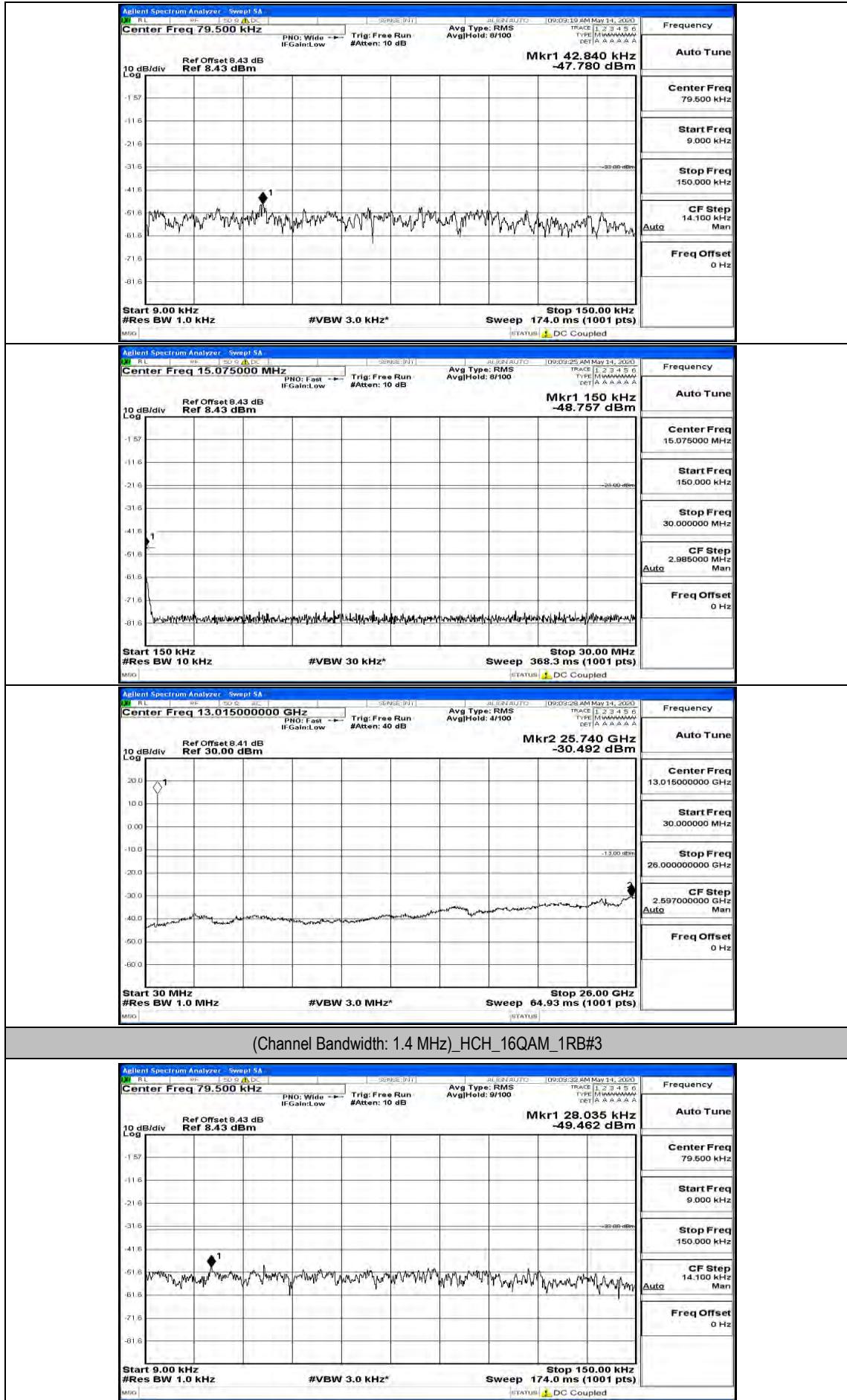
Sweep 368.3 ms (1001 pts)

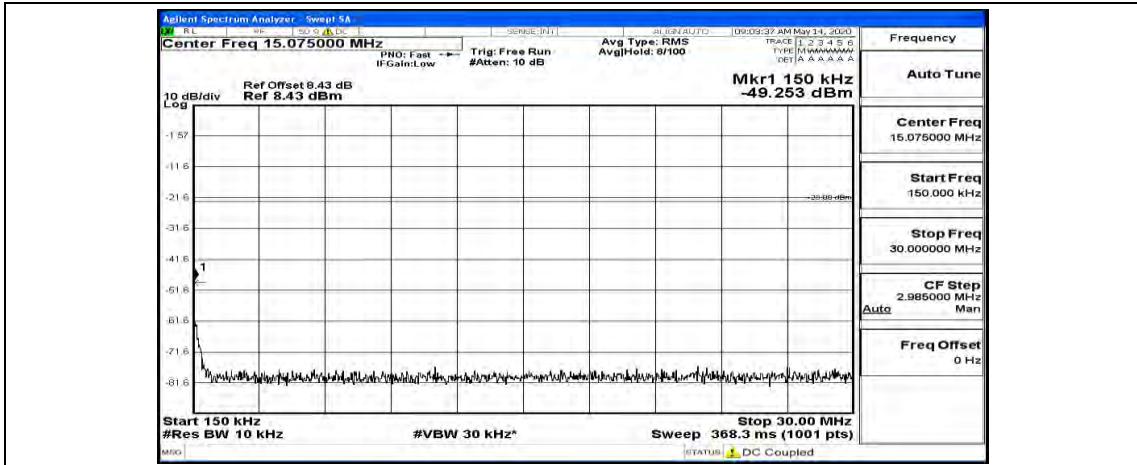
Stop 30.000 MHz



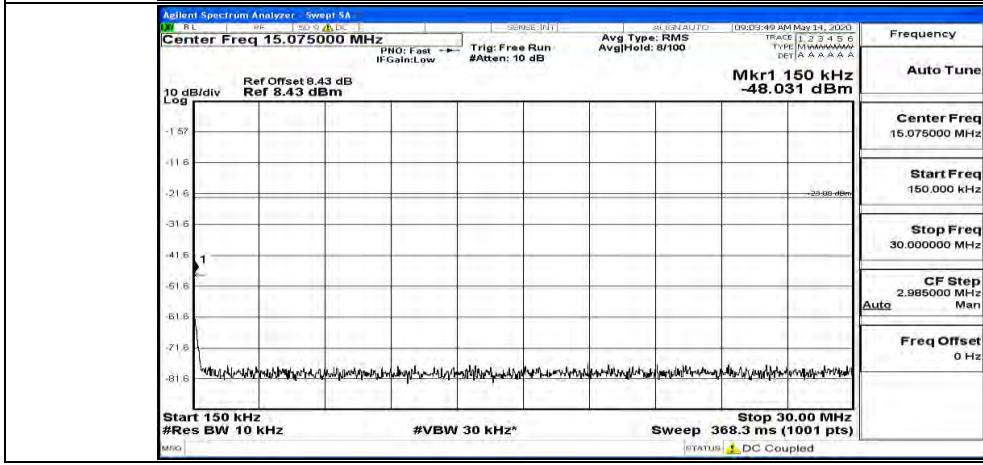
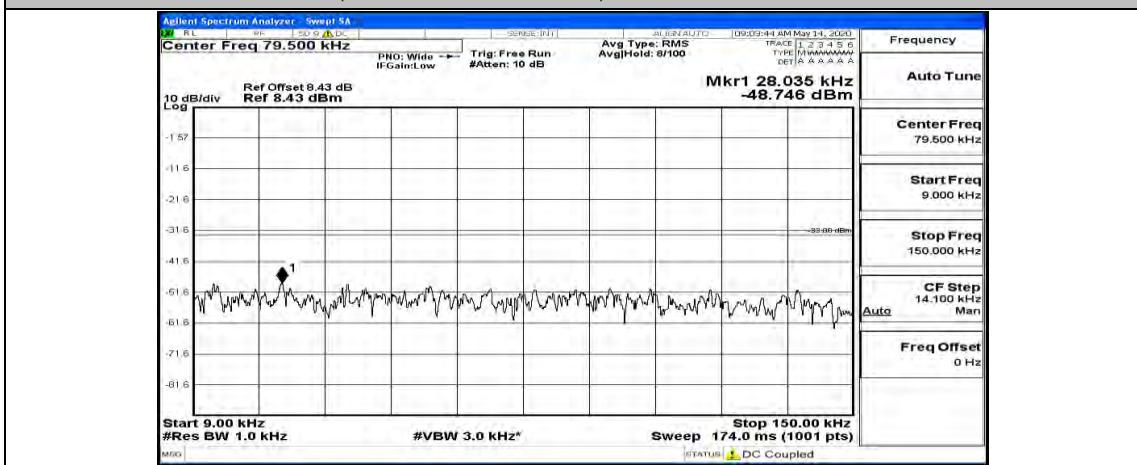


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



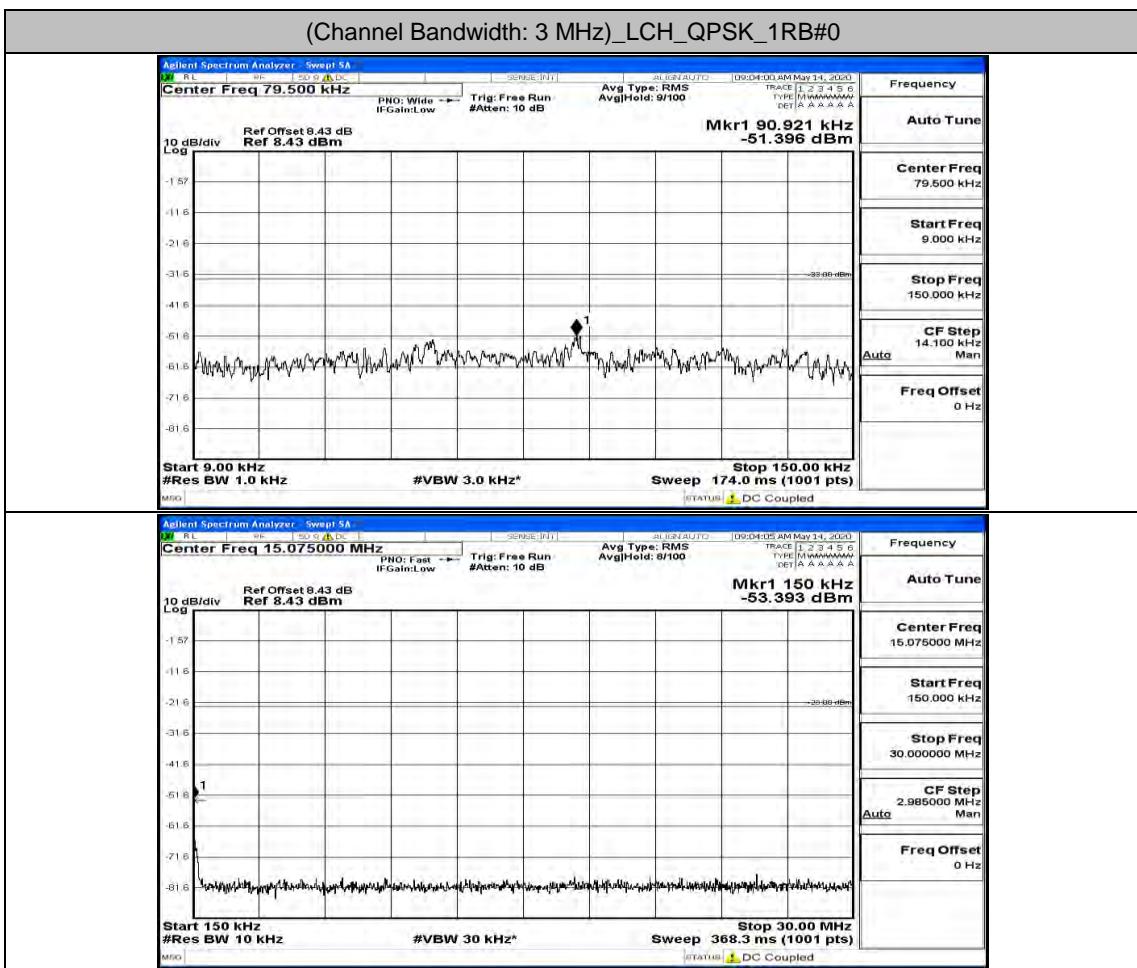


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5





Channel Bandwidth: 3 MHz





(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7

