

## Appendix I: Test Data for E-UTRA Band 17

**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

## I.1 Conducted Output Power

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	22.98	21.99	PASS
		1	12	23.54	22.05	PASS
		1	24	23.52	22.11	PASS
		12	0	22.17	20.93	PASS
		12	6	22.18	21.02	PASS
		12	13	22.31	21.31	PASS
		25	0	22.18	21.22	PASS
	MCH	1	0	23.38	21.94	PASS
		1	12	23.31	21.55	PASS
		1	24	23.21	21.48	PASS
		12	0	22.27	21.12	PASS
		12	6	22.20	20.94	PASS
		12	13	22.20	21.04	PASS
		25	0	22.22	21.02	PASS
	HCH	1	0	23.00	21.52	PASS
		1	12	22.81	21.27	PASS
		1	24	22.32	21.15	PASS
		12	0	21.90	20.82	PASS
		12	6	21.78	20.49	PASS
		12	13	21.45	20.39	PASS
		25	0	21.68	20.77	PASS

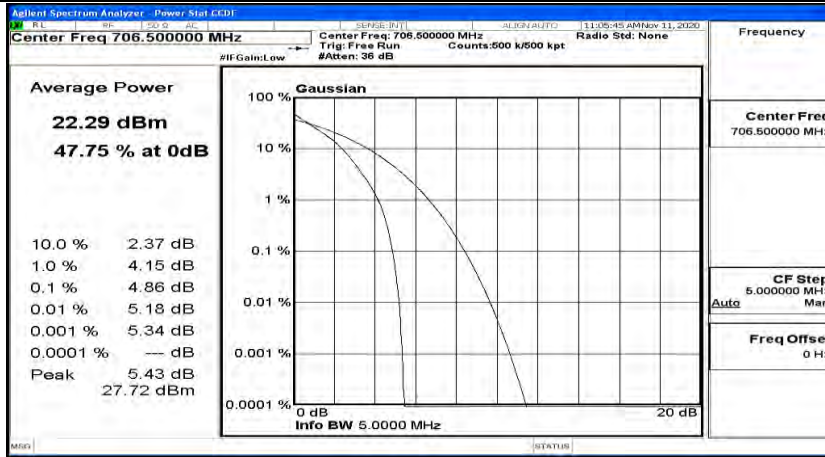
Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.92	22.14	PASS
		1	24	23.14	22.30	PASS
		1	49	22.90	22.26	PASS
		25	0	22.29	21.23	PASS
		25	12	22.21	21.17	PASS
		25	25	22.20	21.19	PASS
		50	0	22.17	21.22	PASS
	MCH	1	0	22.98	22.58	PASS
		1	24	23.09	22.73	PASS
		1	49	22.69	22.02	PASS
		25	0	22.20	21.17	PASS
		25	12	22.19	21.08	PASS
		25	25	22.08	21.09	PASS
		50	0	22.12	21.03	PASS
	HCH	1	0	23.10	22.04	PASS
		1	24	22.90	21.55	PASS
		1	49	22.52	21.07	PASS
		25	0	22.21	21.06	PASS
		25	12	22.16	20.85	PASS
		25	25	21.86	20.78	PASS
		50	0	22.00	20.98	PASS

**I.2 Peak-to-Average Ratio**

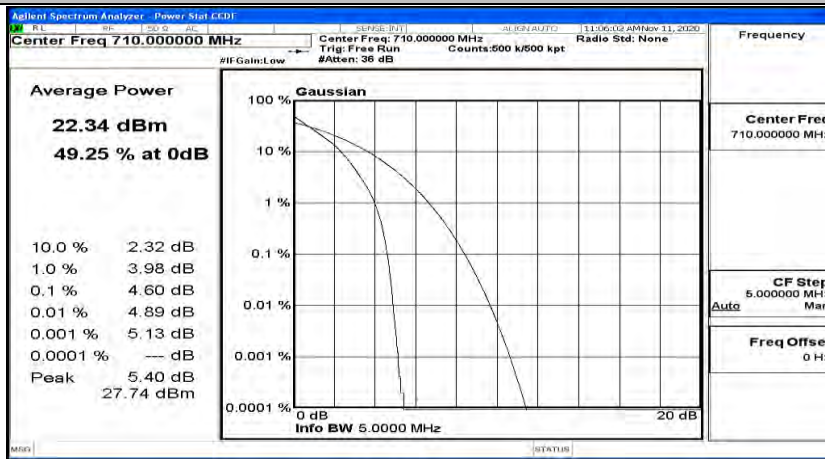
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.86	<13	PASS
	MCH	4.6	<13	PASS
	HCH	4.55	<13	PASS
16QAM	LCH	5.69	<13	PASS
	MCH	5.45	<13	PASS
	HCH	5.23	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.61	<13	PASS
	MCH	4.58	<13	PASS
	HCH	4.58	<13	PASS
16QAM	LCH	5.46	<13	PASS
	MCH	5.49	<13	PASS
	HCH	5.43	<13	PASS

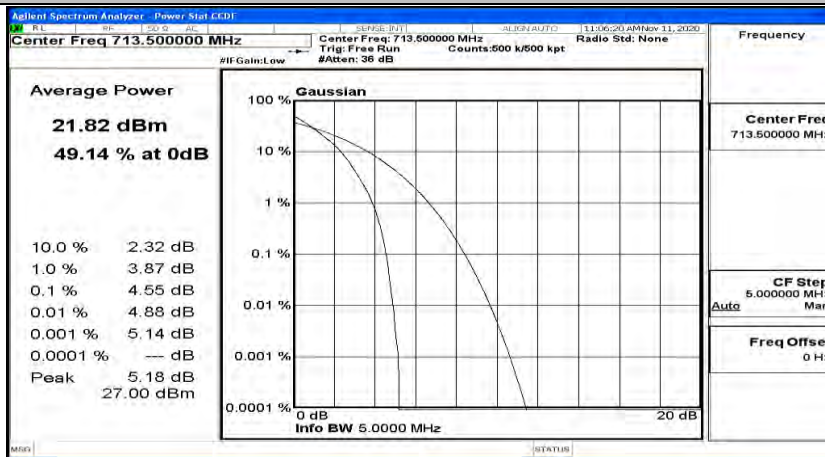
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



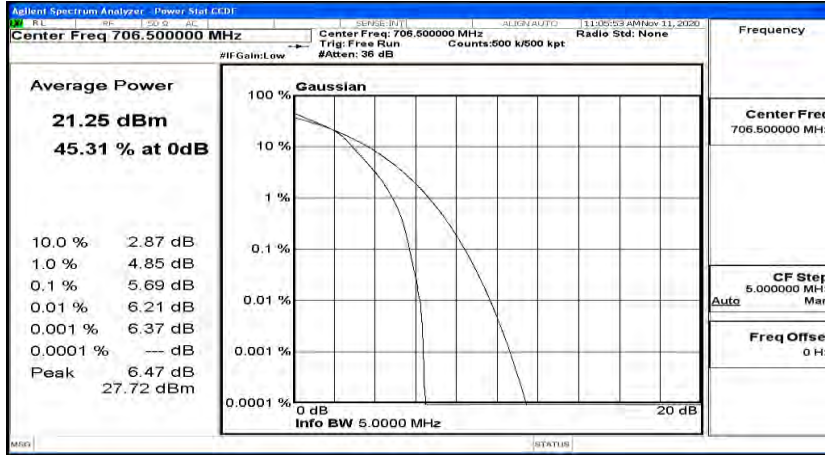
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



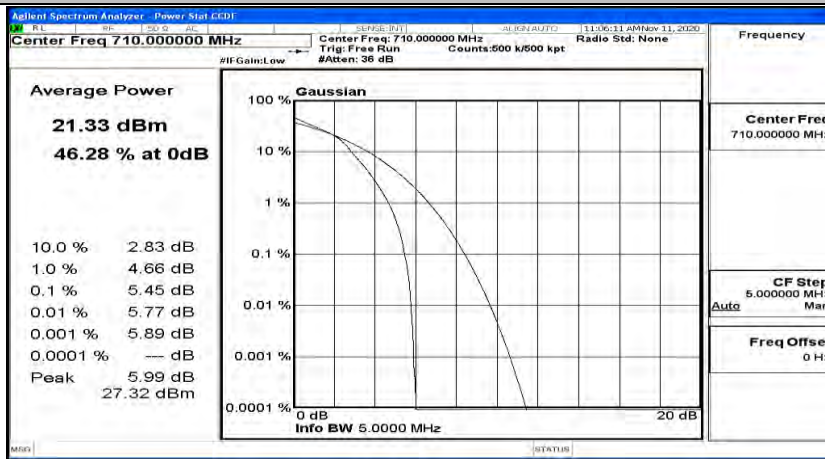
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



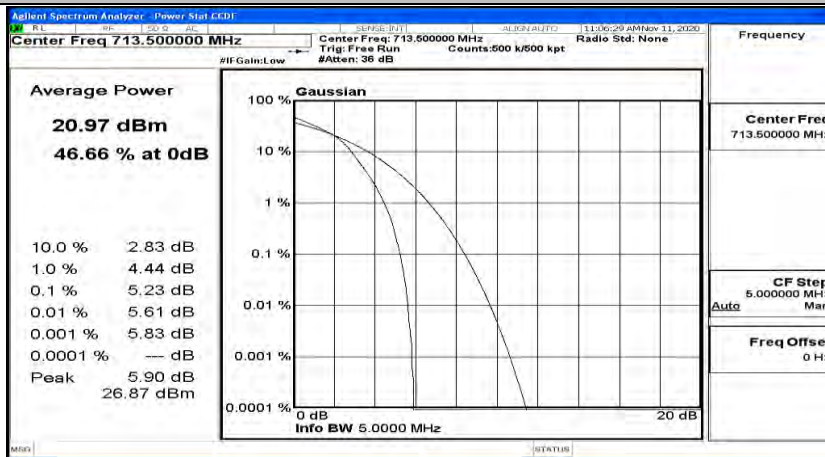
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



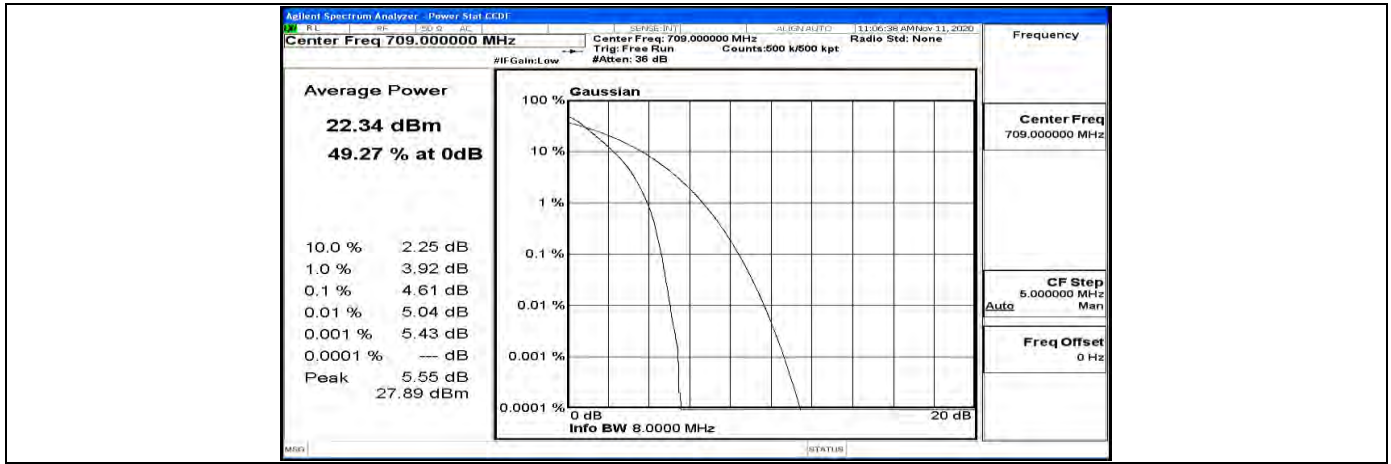
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



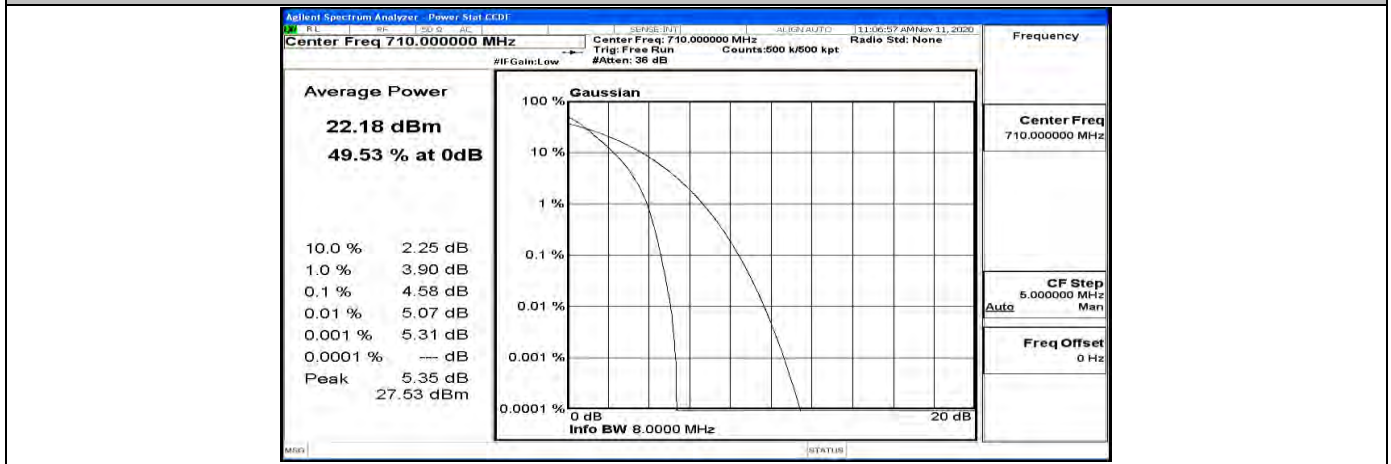
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



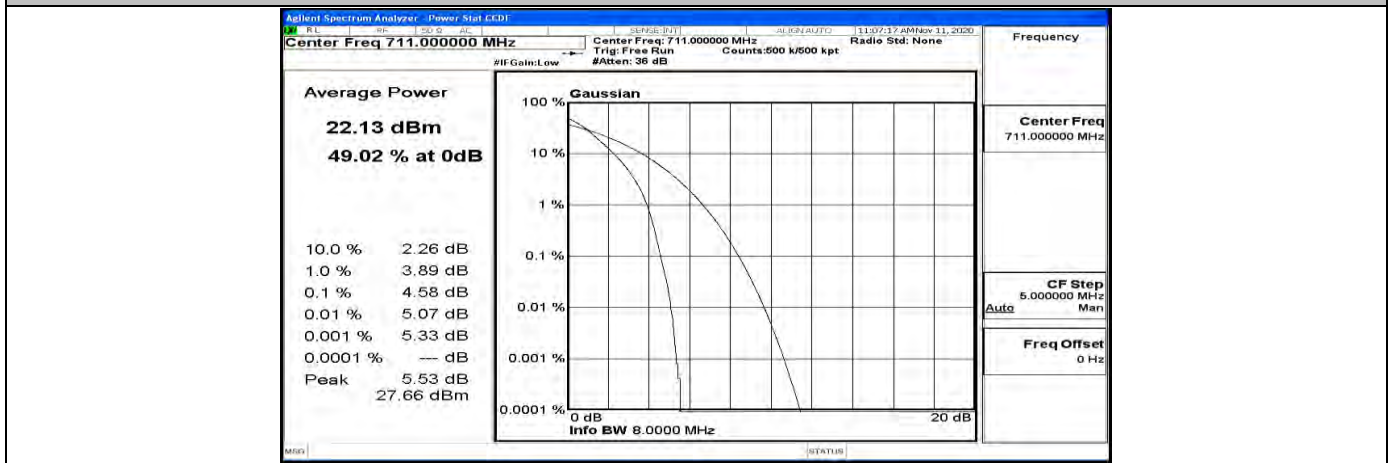
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



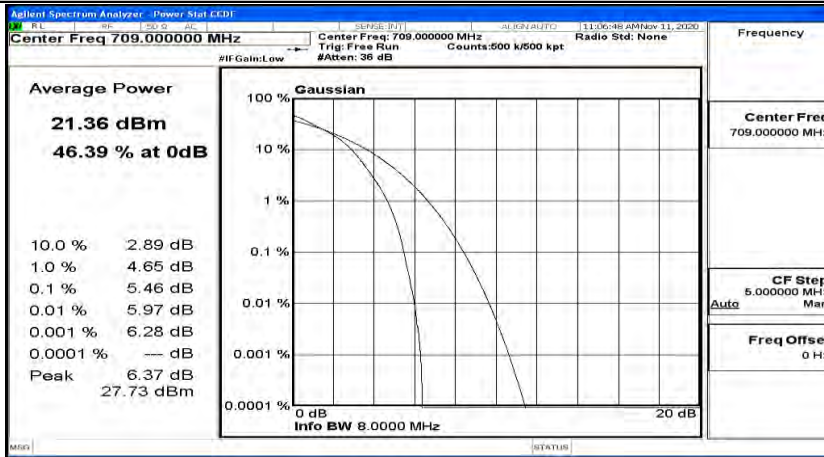
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



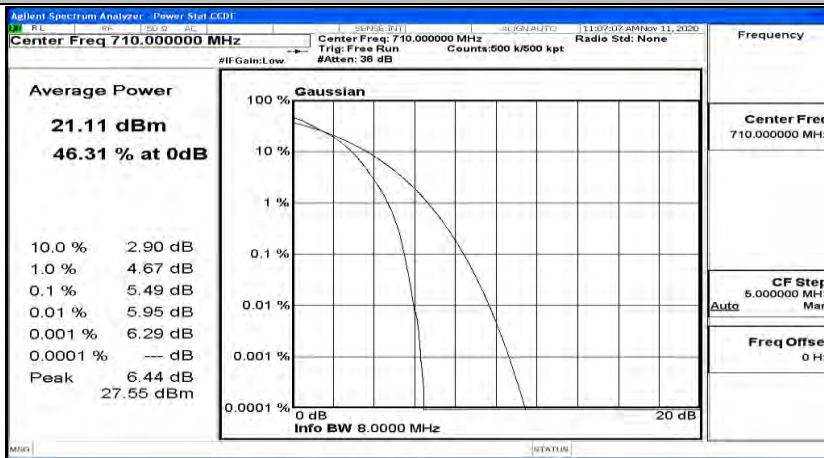
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



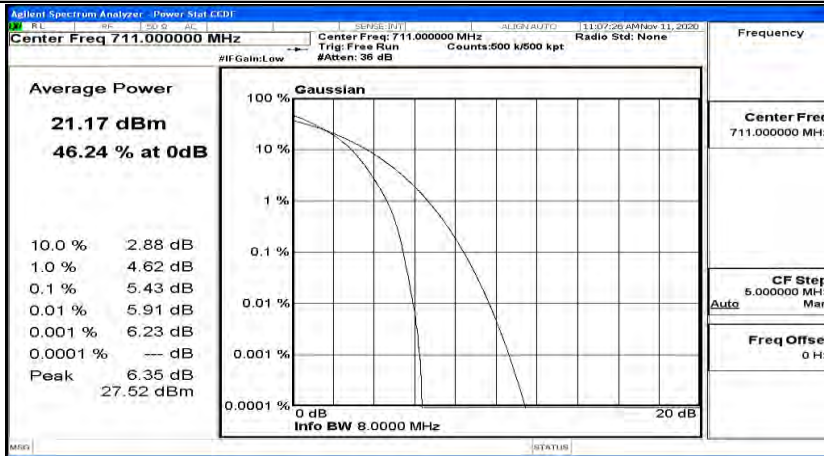
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



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

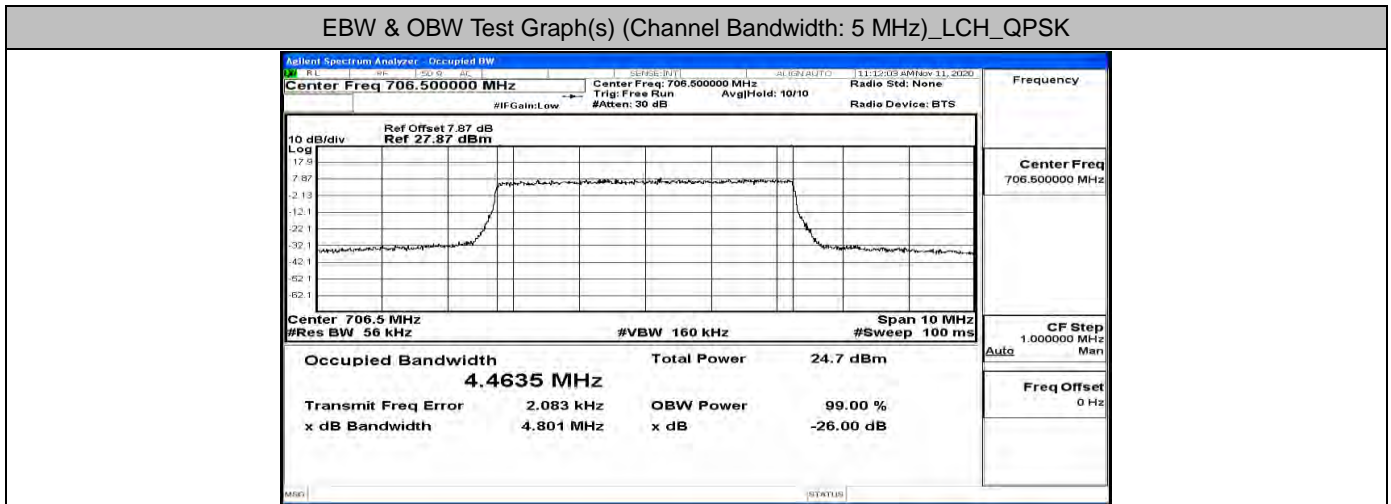




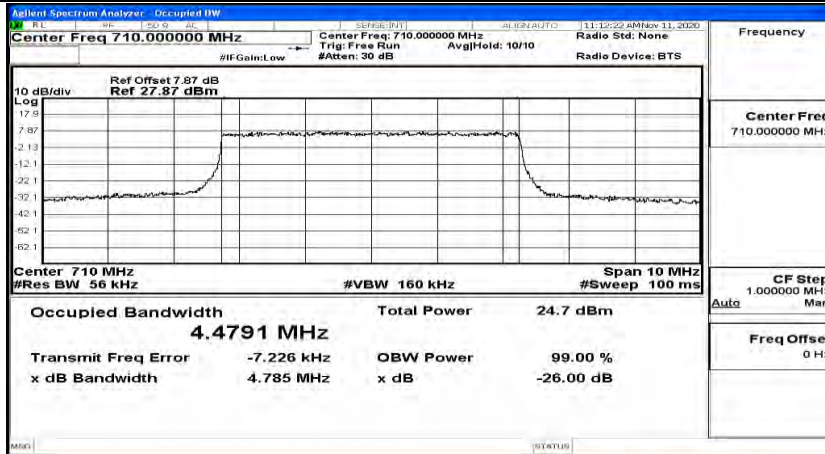
### I.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4635	4.801	PASS
	MCH	4.4791	4.785	PASS
	HCH	4.4776	4.820	PASS
16QAM	LCH	4.4692	4.729	PASS
	MCH	4.4670	4.836	PASS
	HCH	4.4789	4.843	PASS

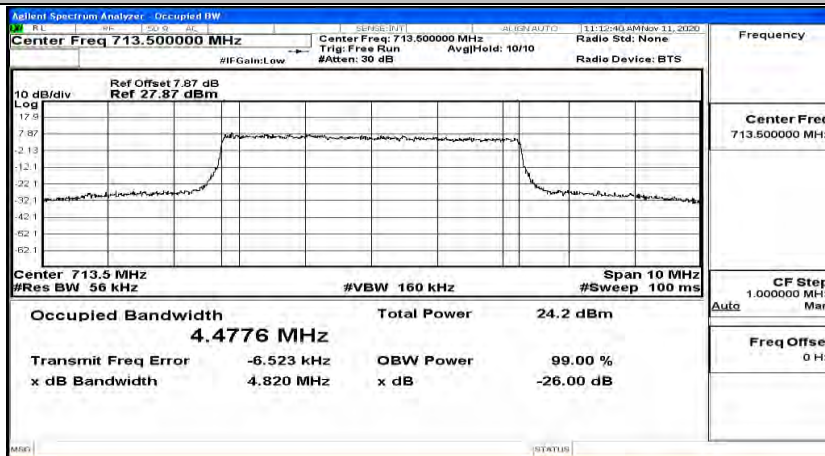
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9108	9.447	PASS
	MCH	8.8916	9.342	PASS
	HCH	8.8993	9.396	PASS
16QAM	LCH	8.8962	9.367	PASS
	MCH	8.9058	9.360	PASS
	HCH	8.8771	9.373	PASS



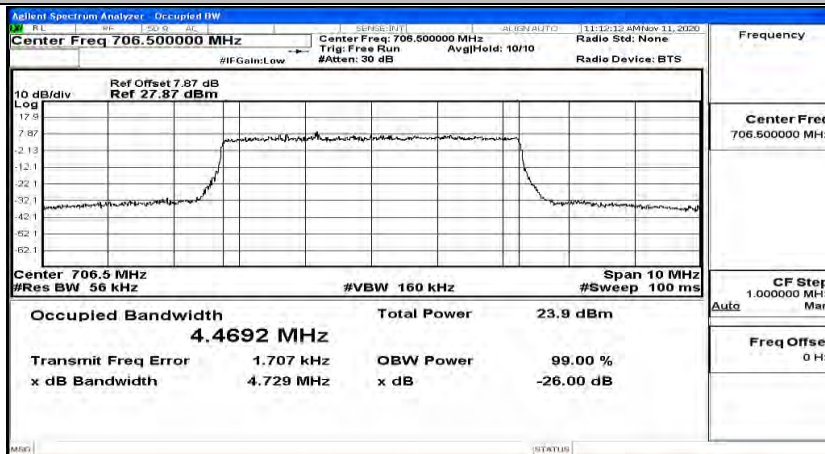
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



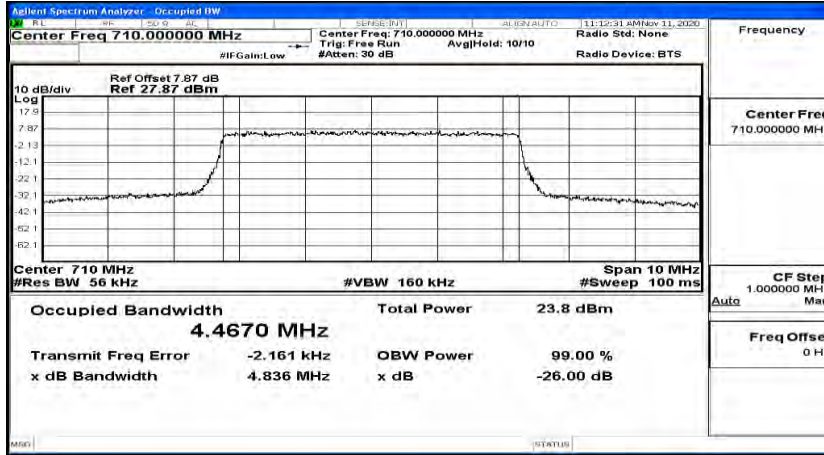
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



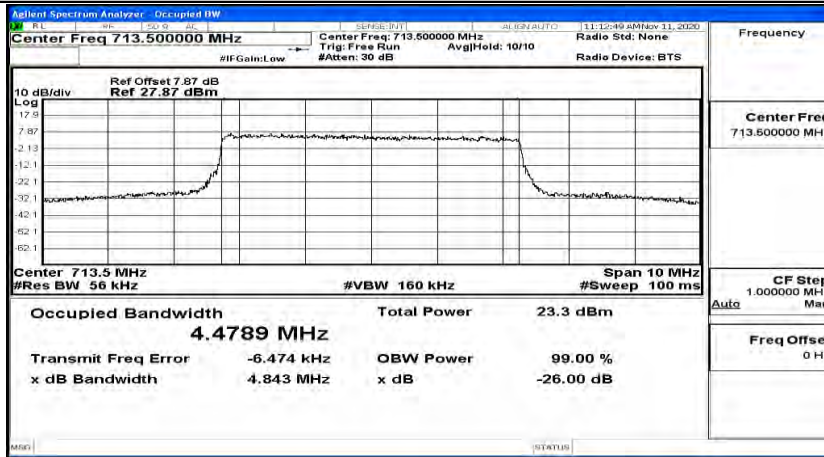
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



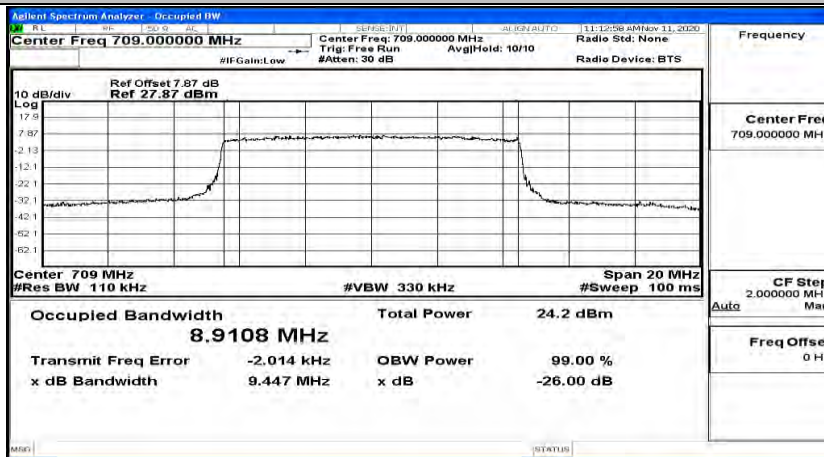
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



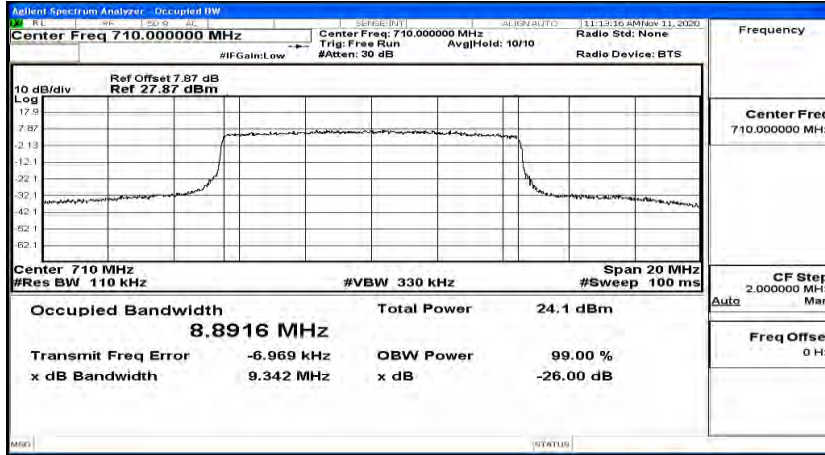
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



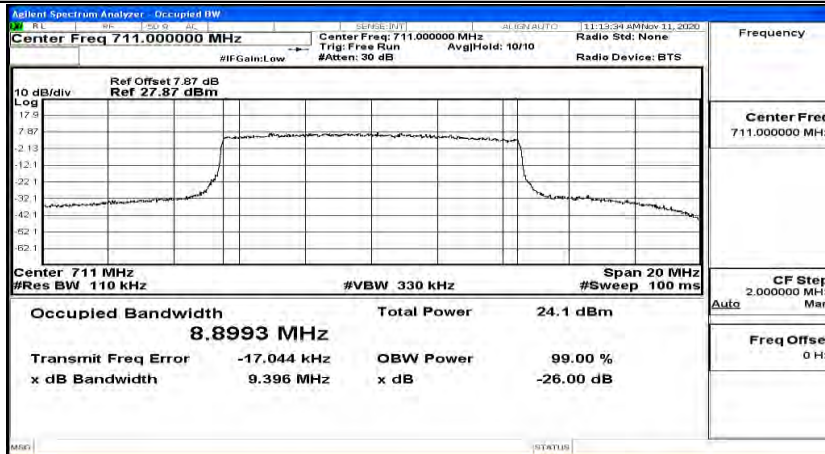
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



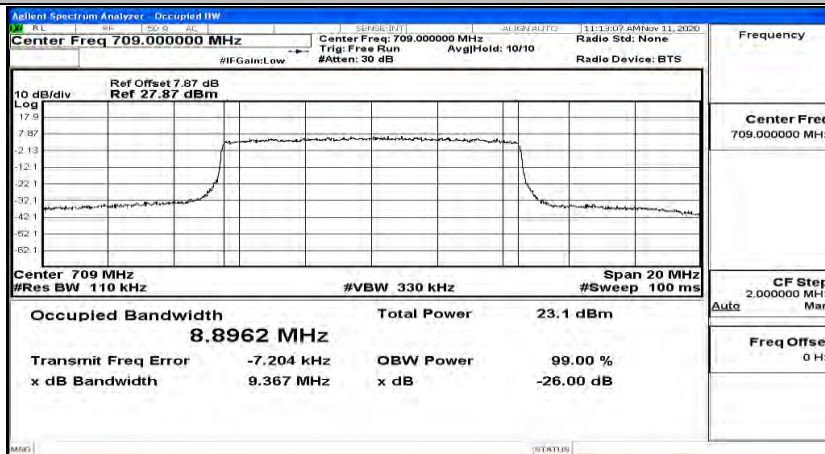
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



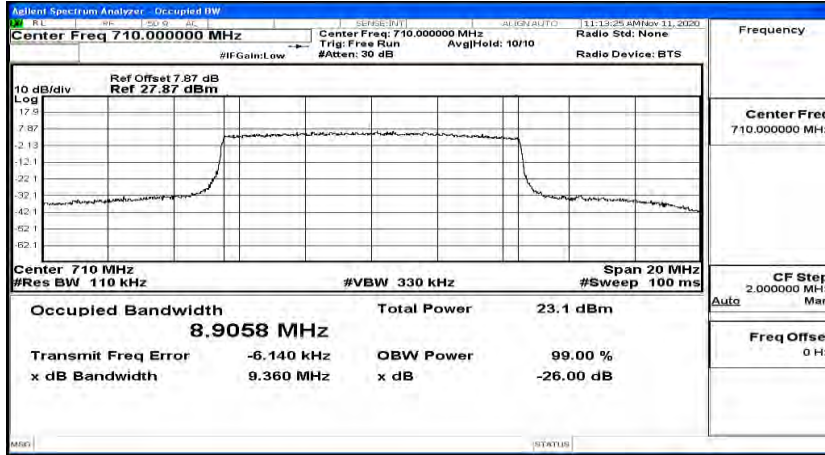
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



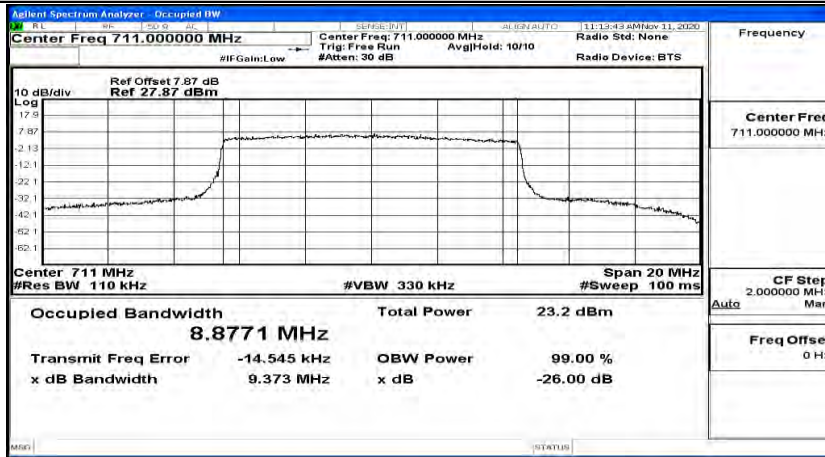
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM

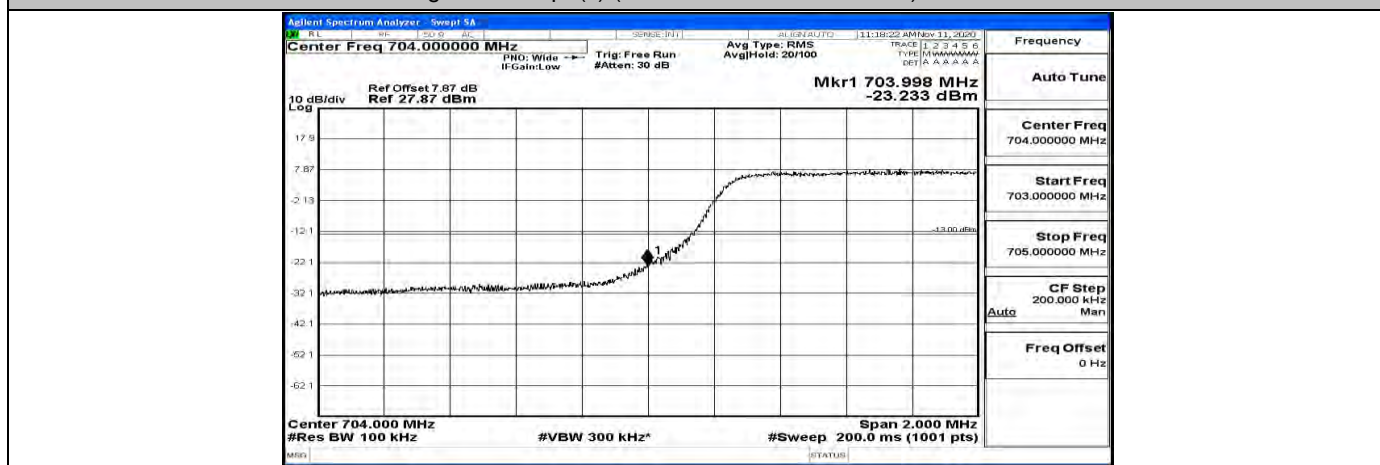


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

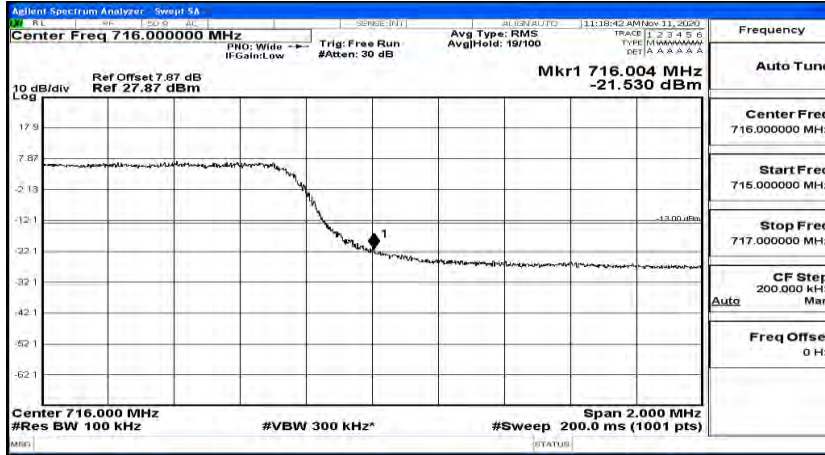


### I.4 Band Edge

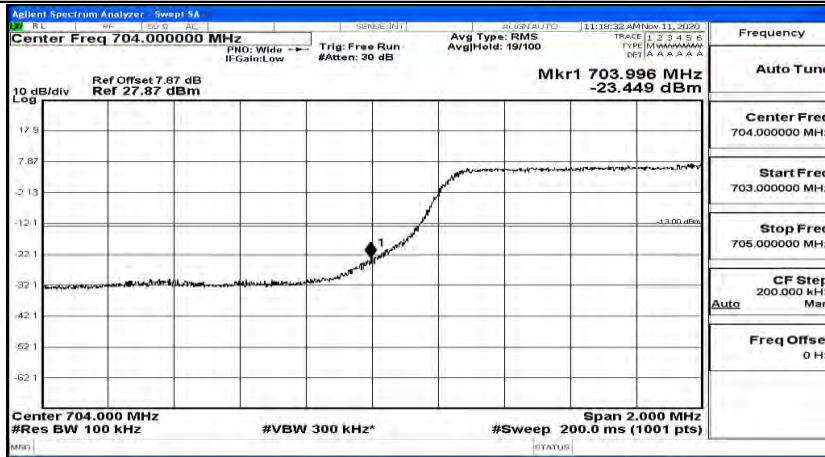
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



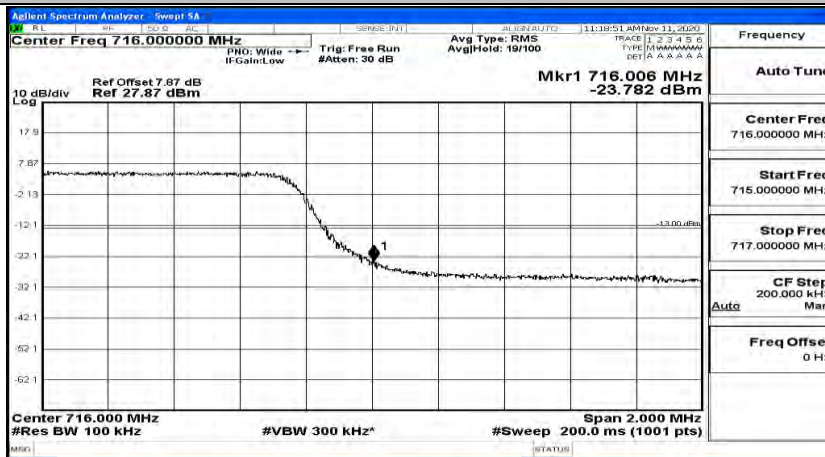
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



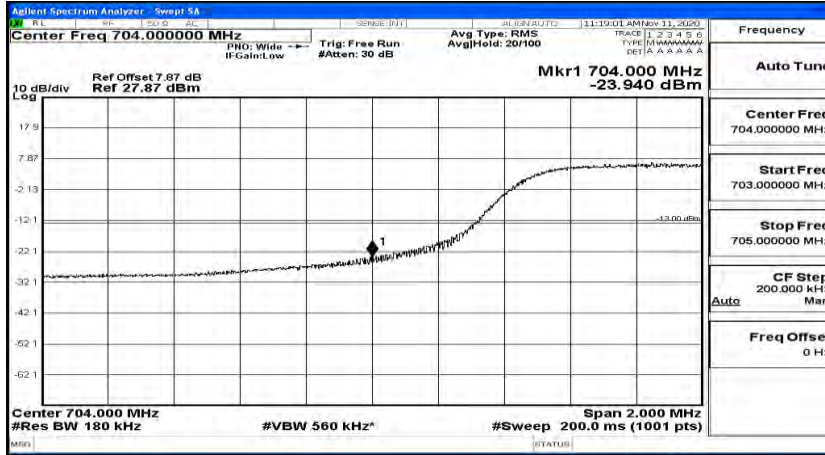
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



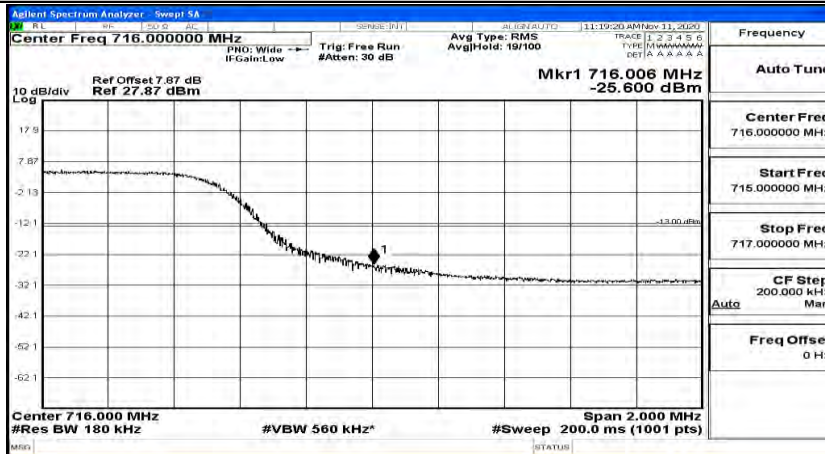
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



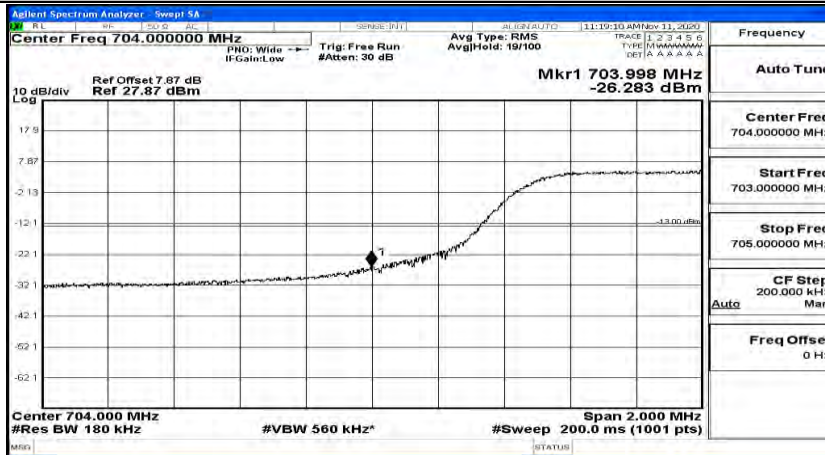
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK

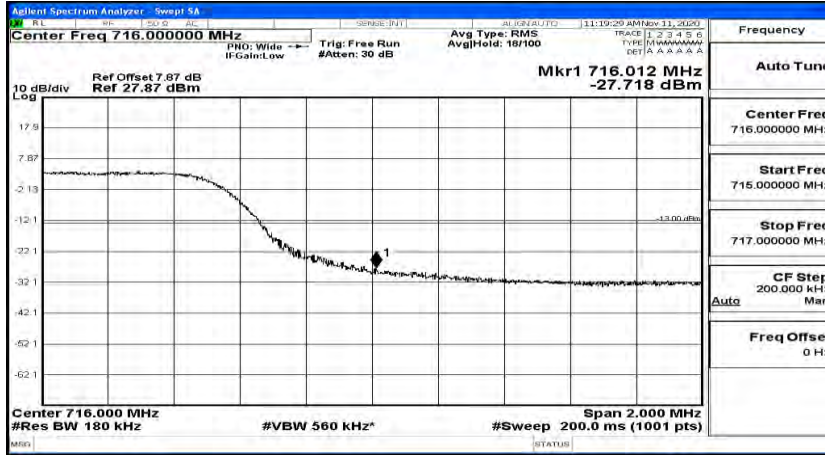


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM





Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

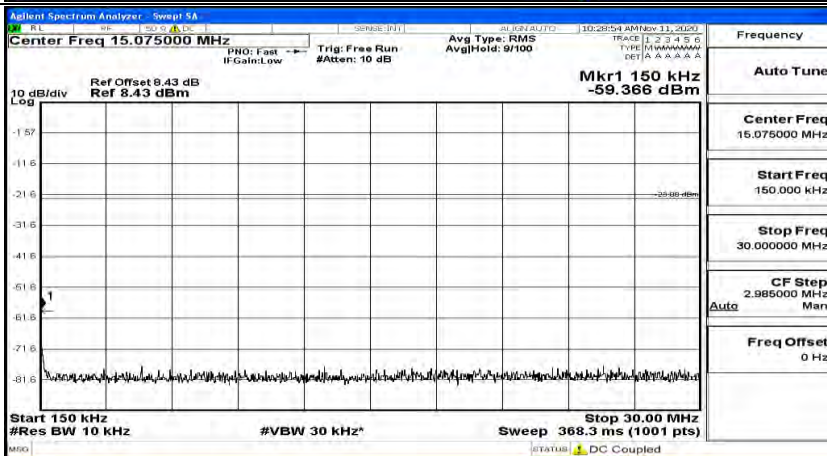
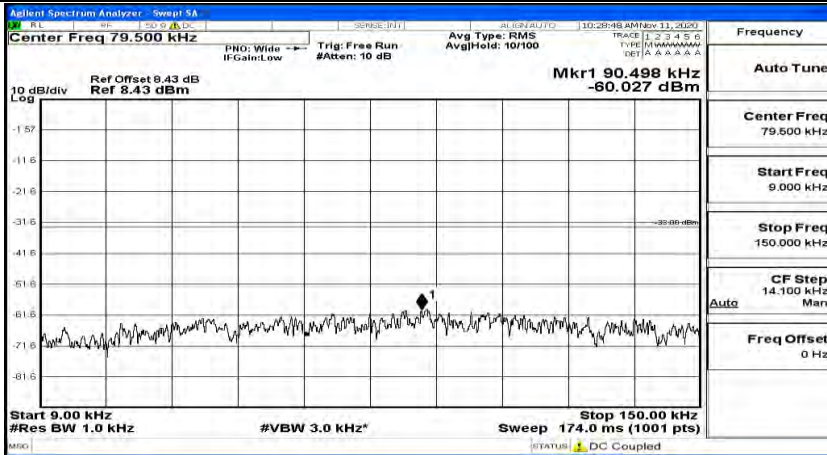


# I.5 Conducted Spurious Emission

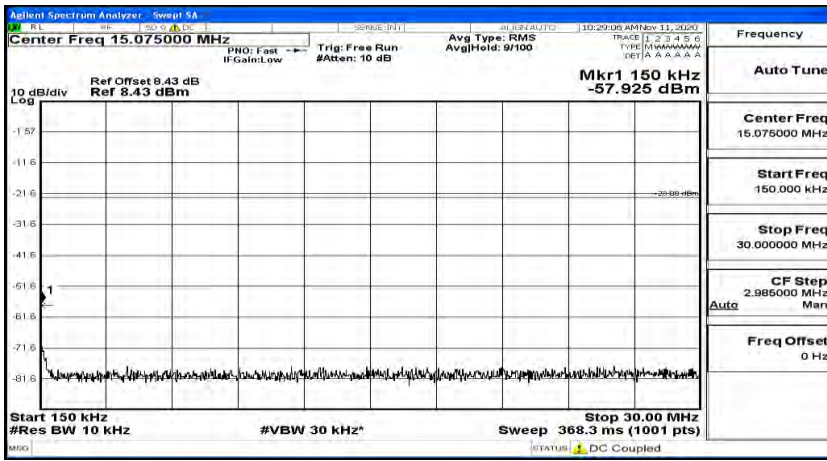
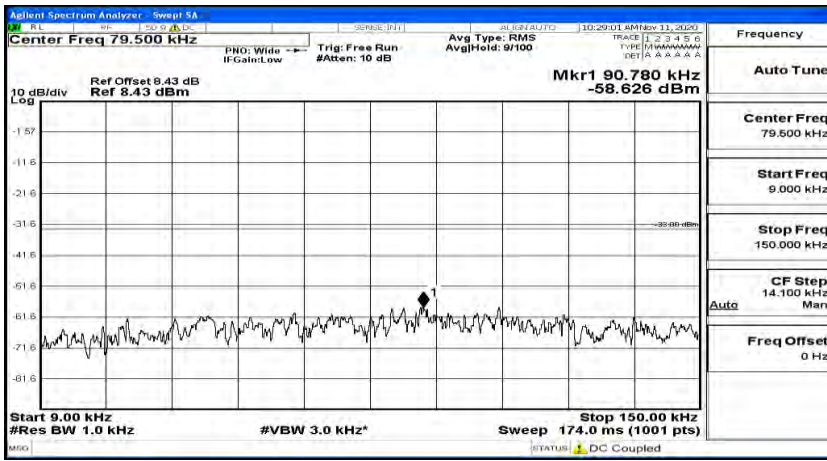
## Test Graphs

Channel Bandwidth: 1.4 MHz

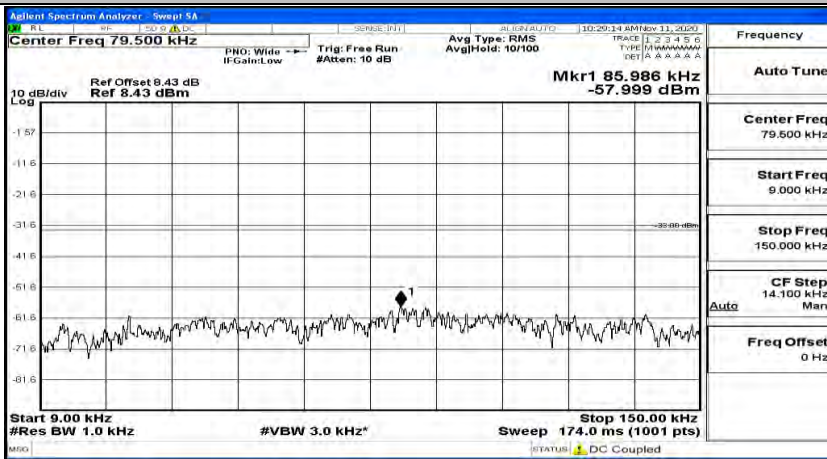
(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_1RB#0

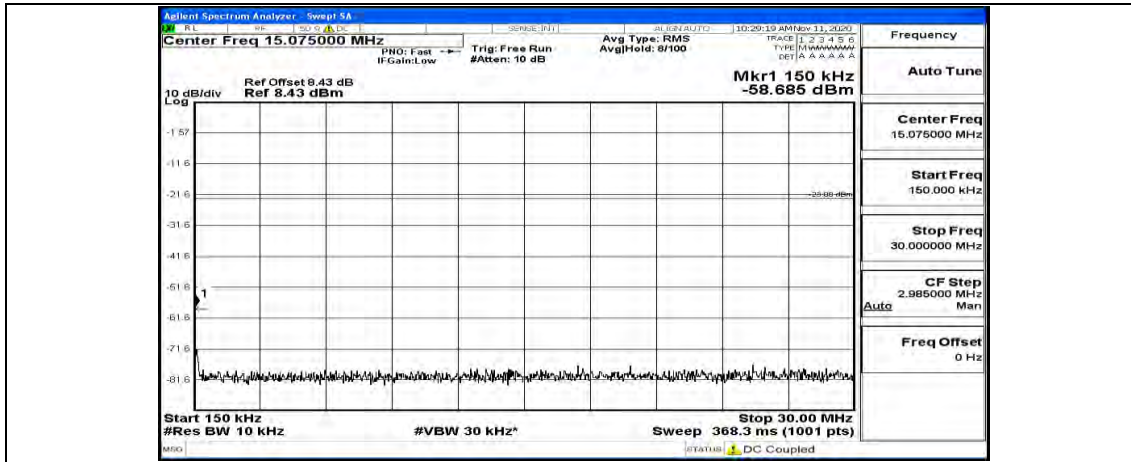


(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_1RB#3

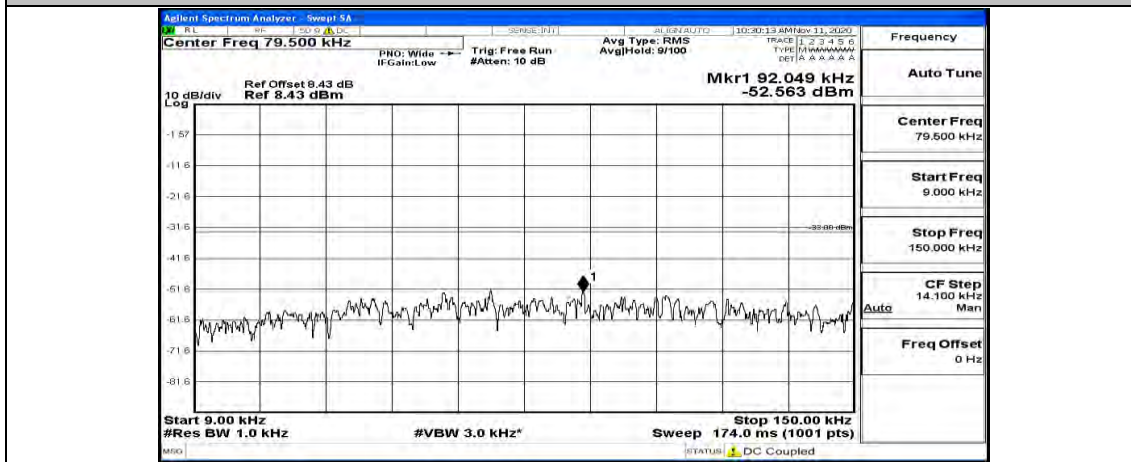


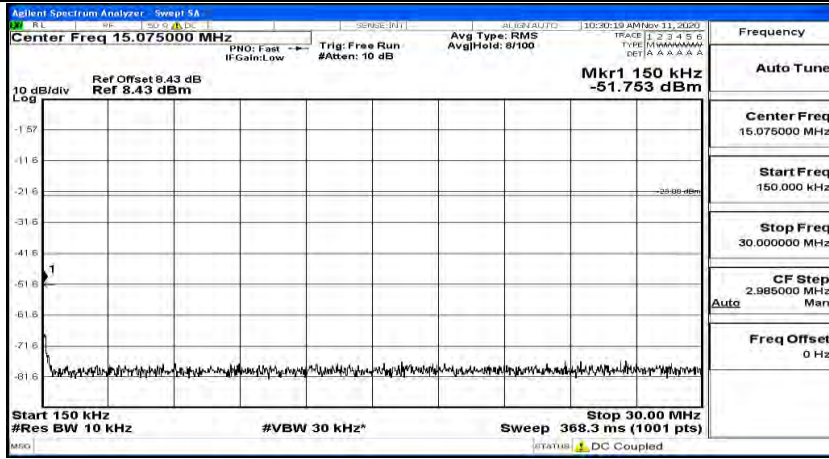
(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_1RB#5



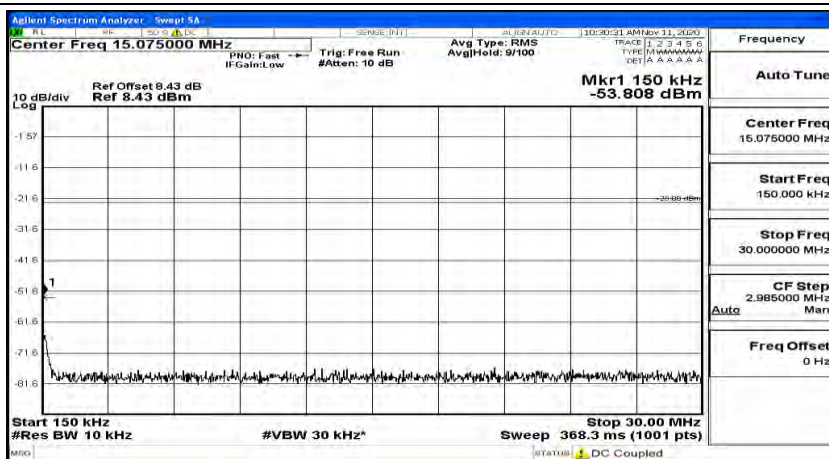
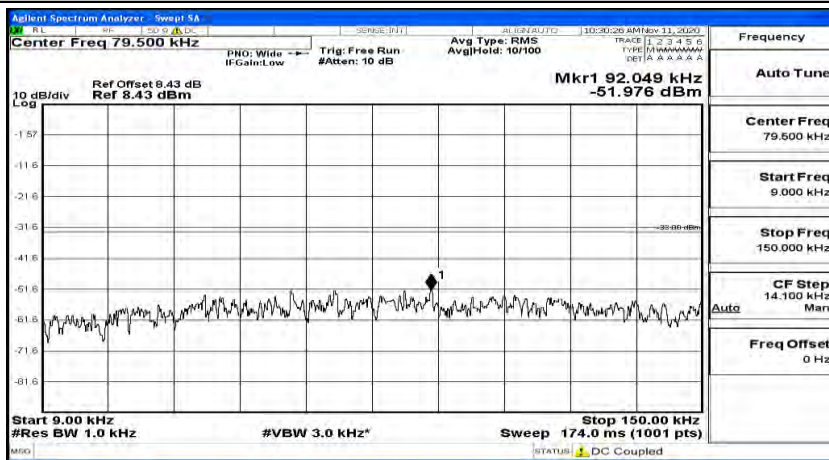


(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#0



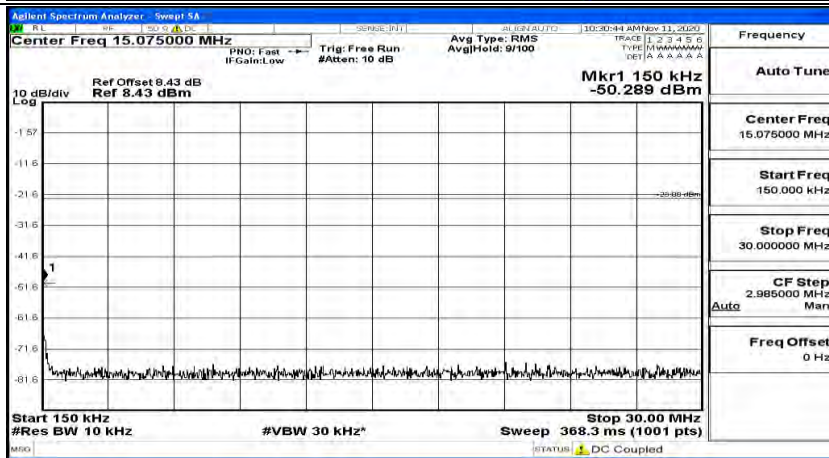
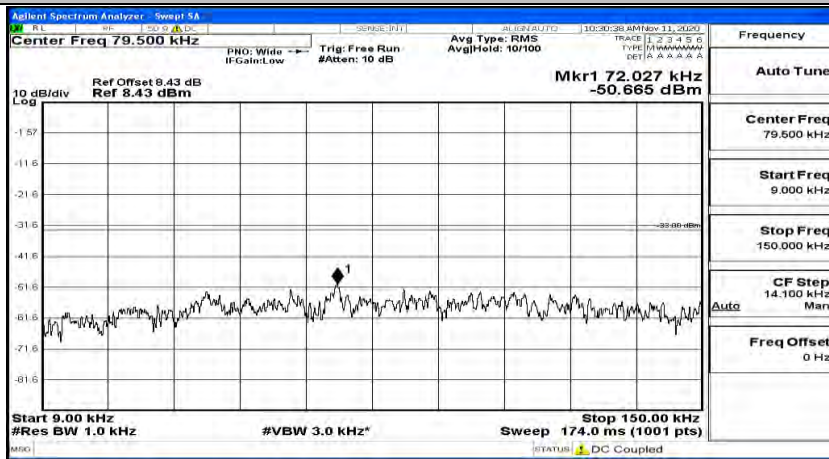


(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#3

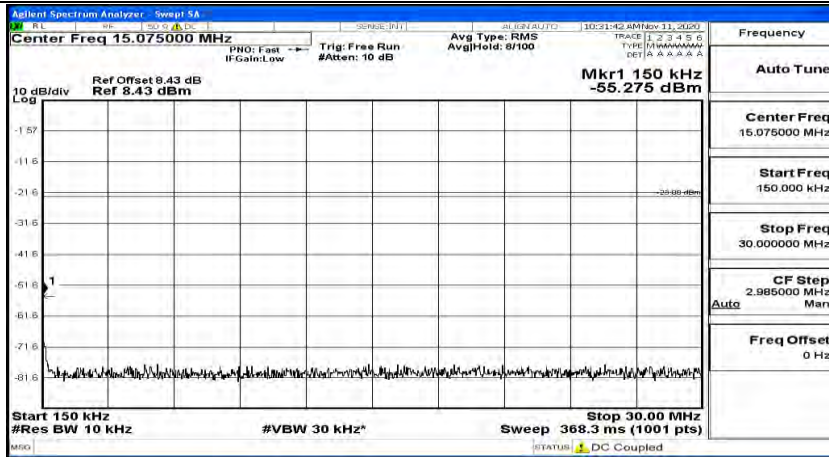
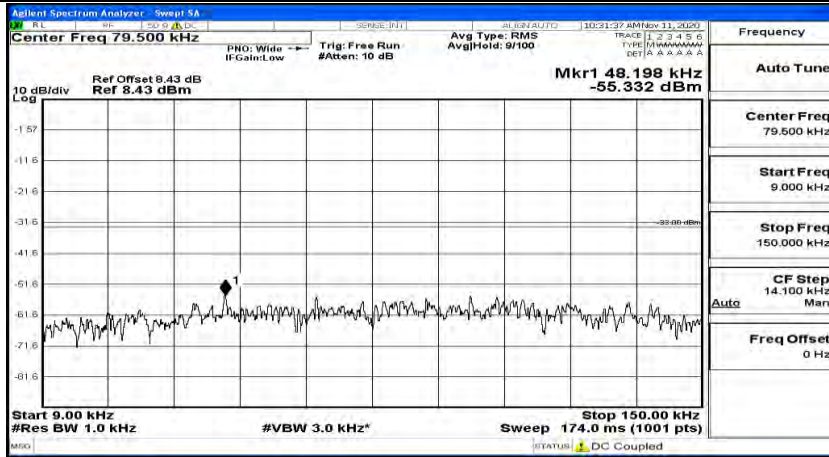




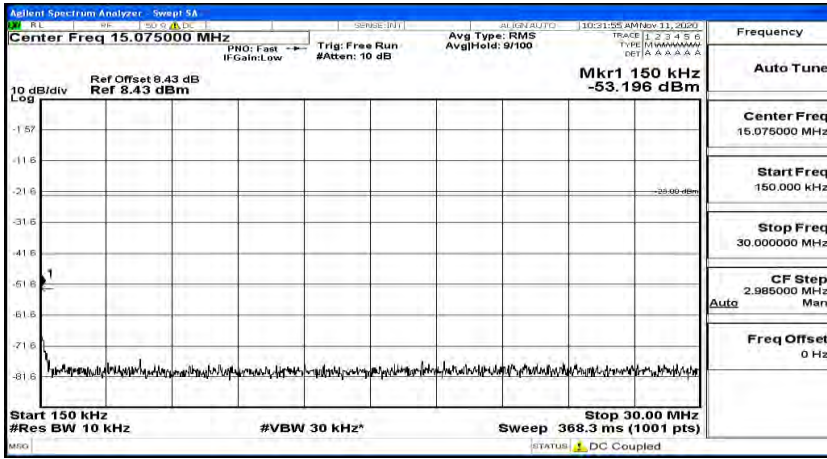
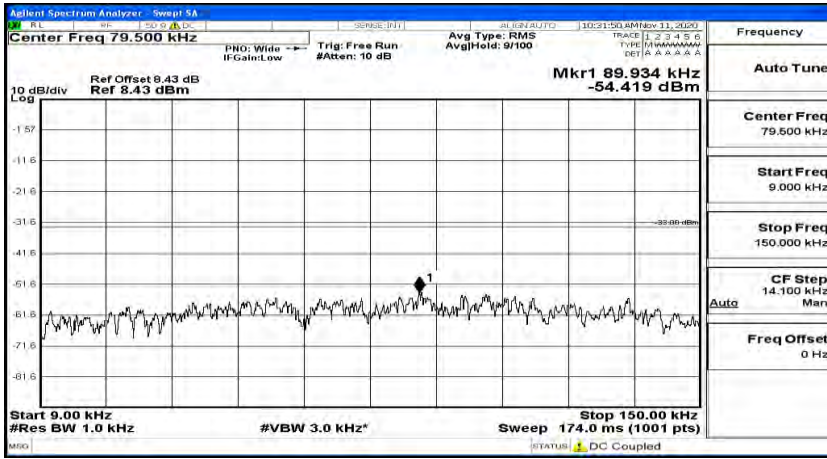
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#5



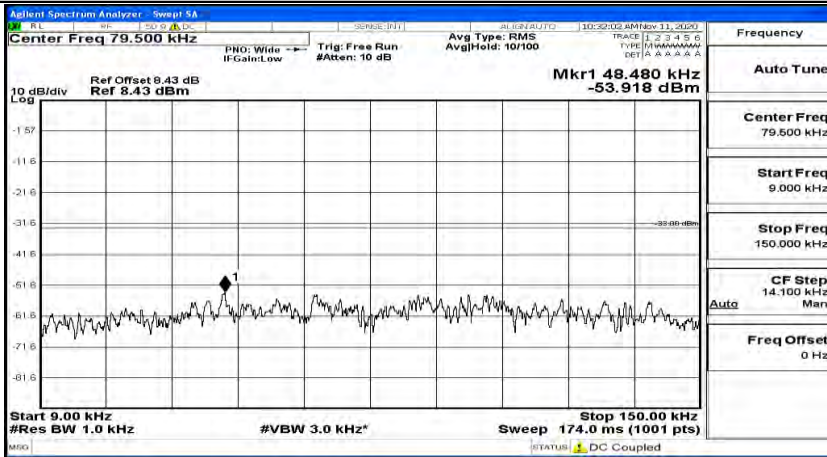
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#0



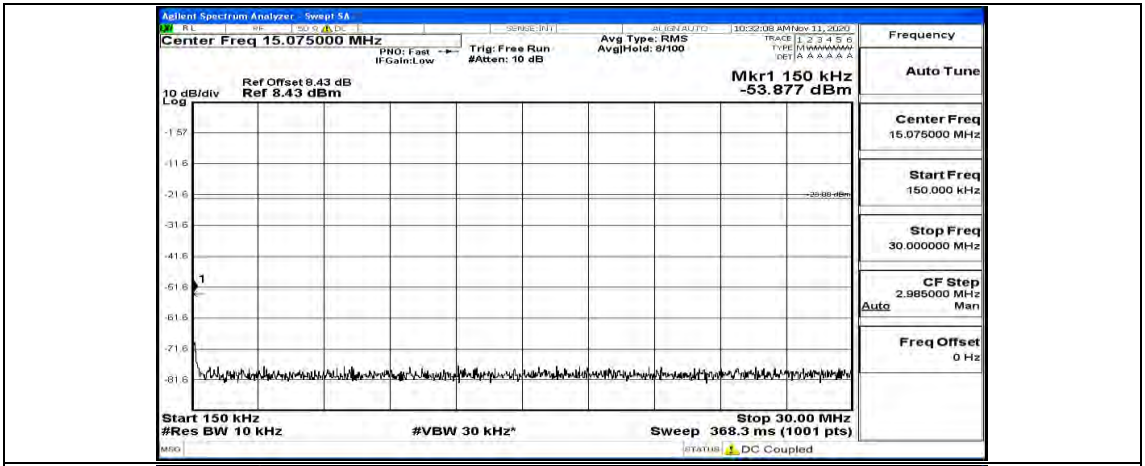
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#3



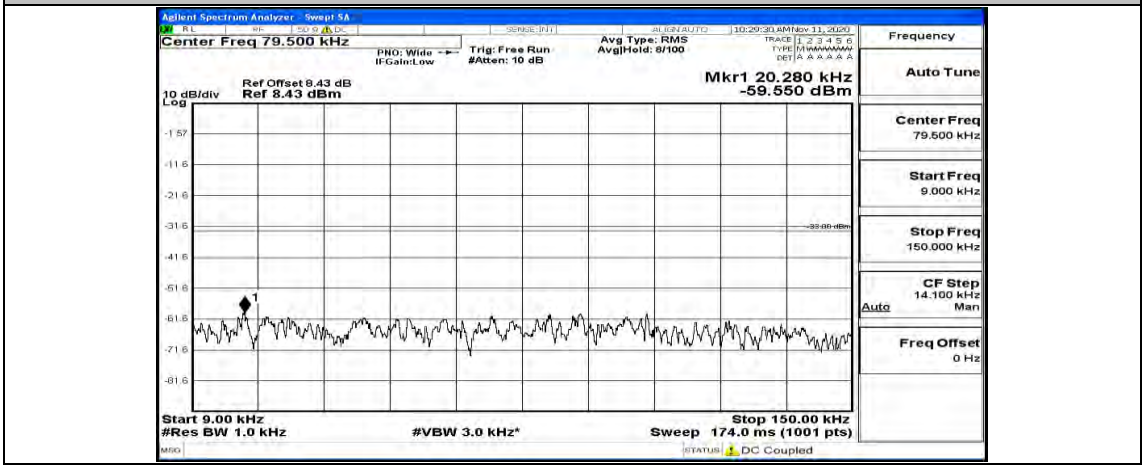
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#5

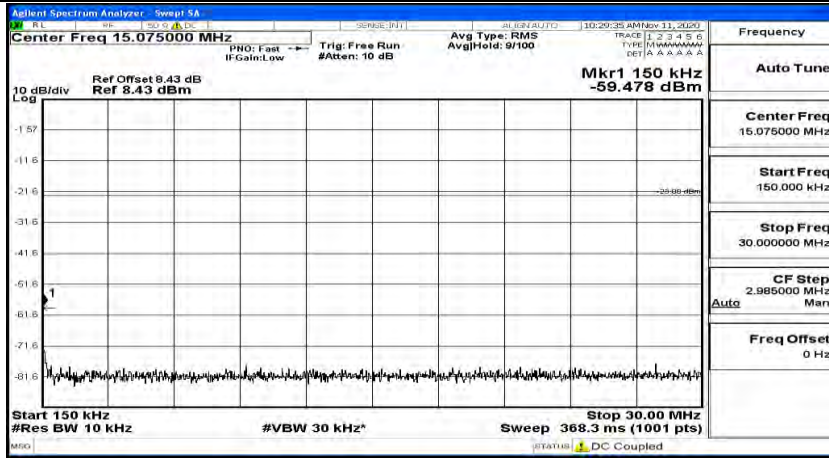




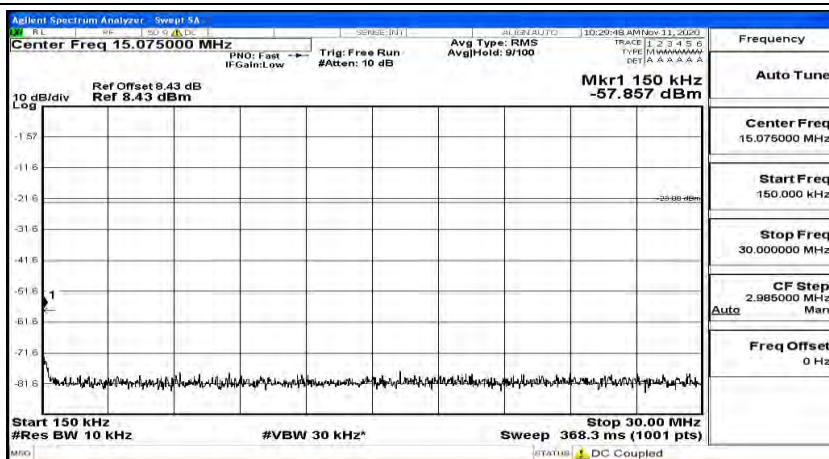
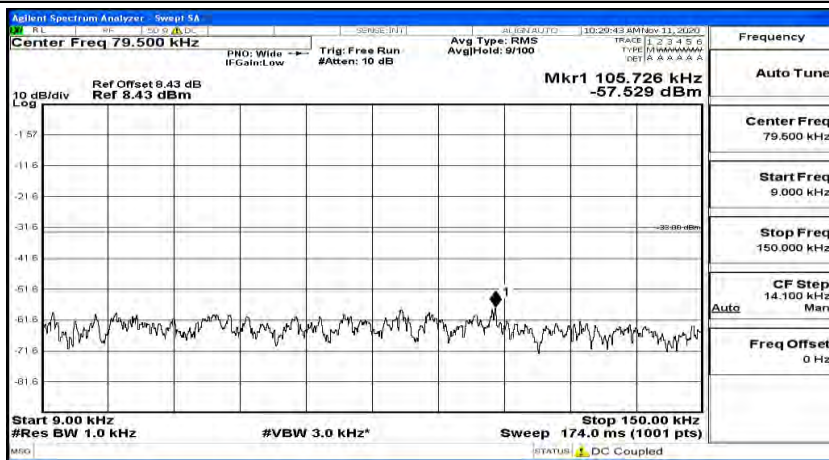


(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#0



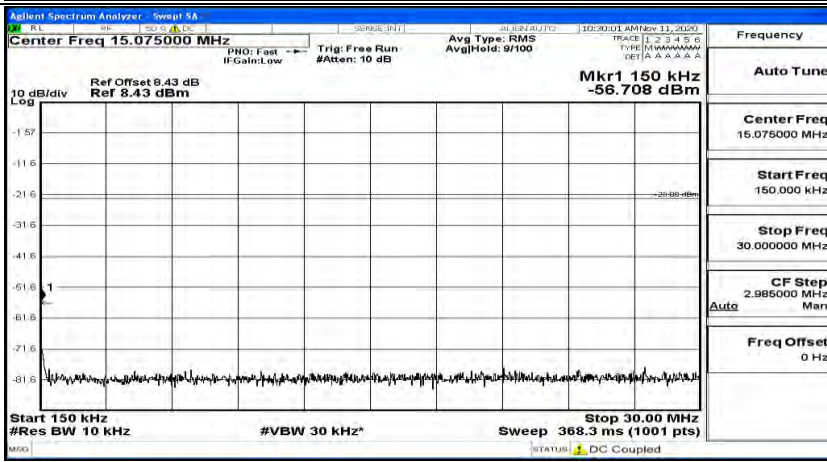
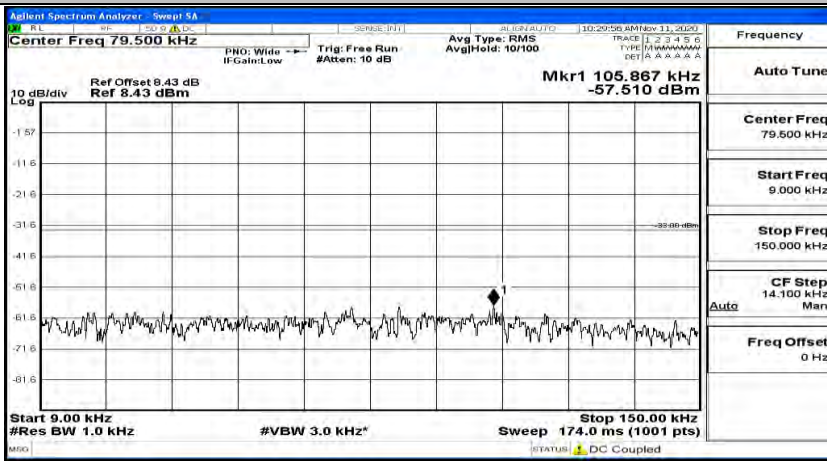


(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#3

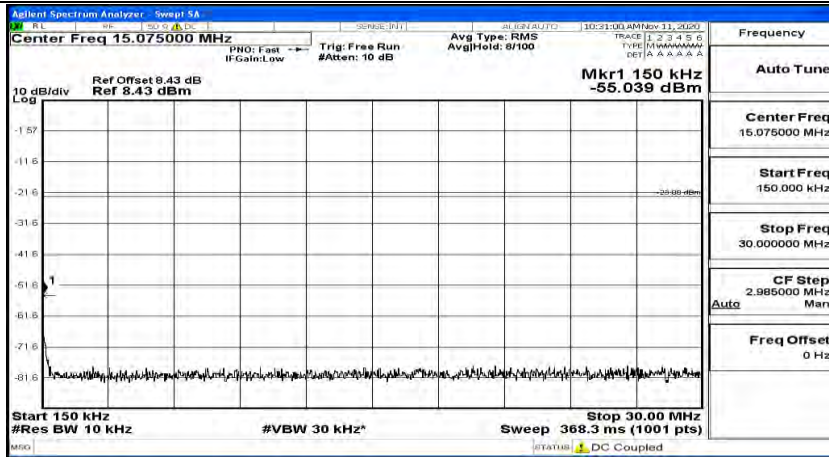
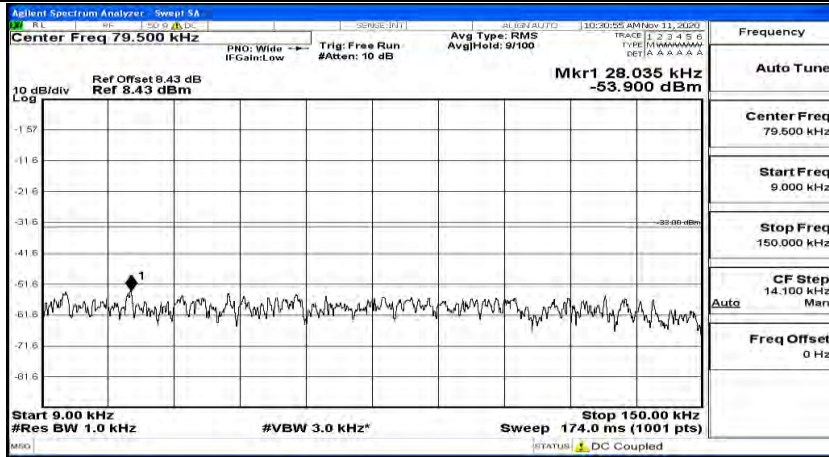




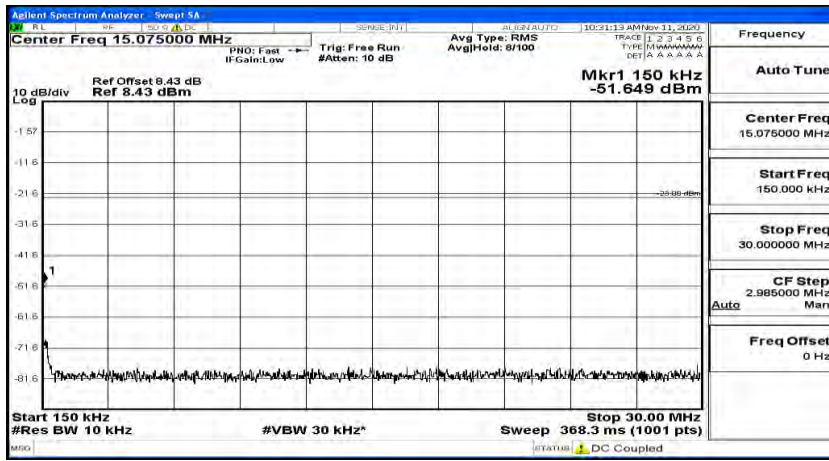
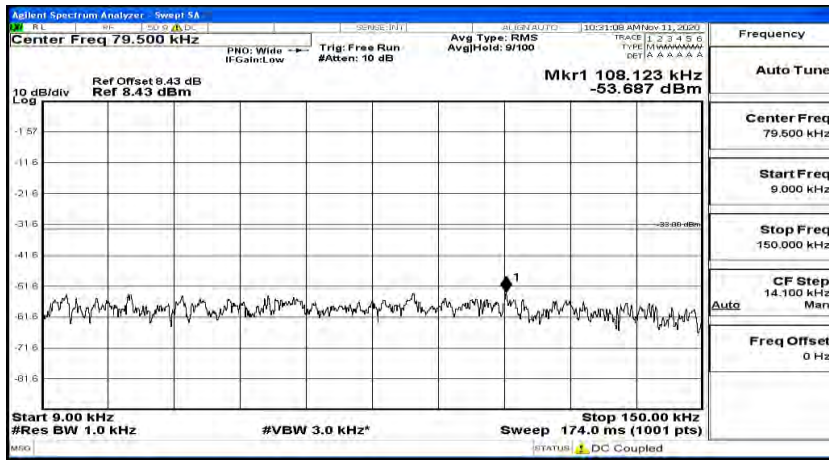
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#5



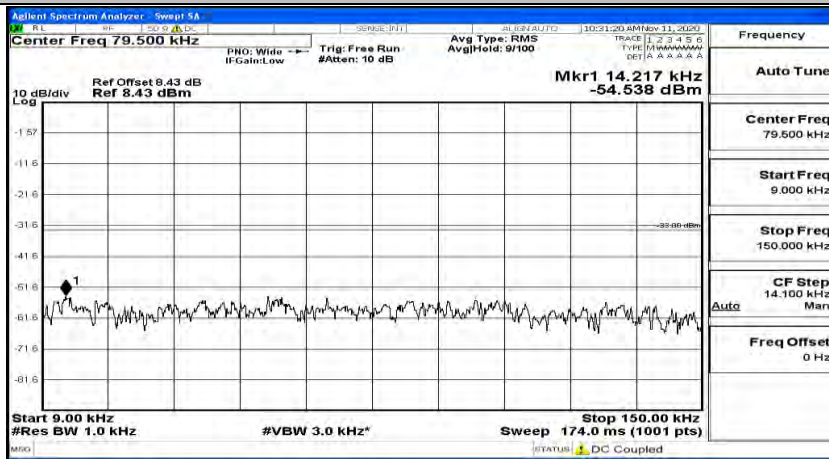
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#0

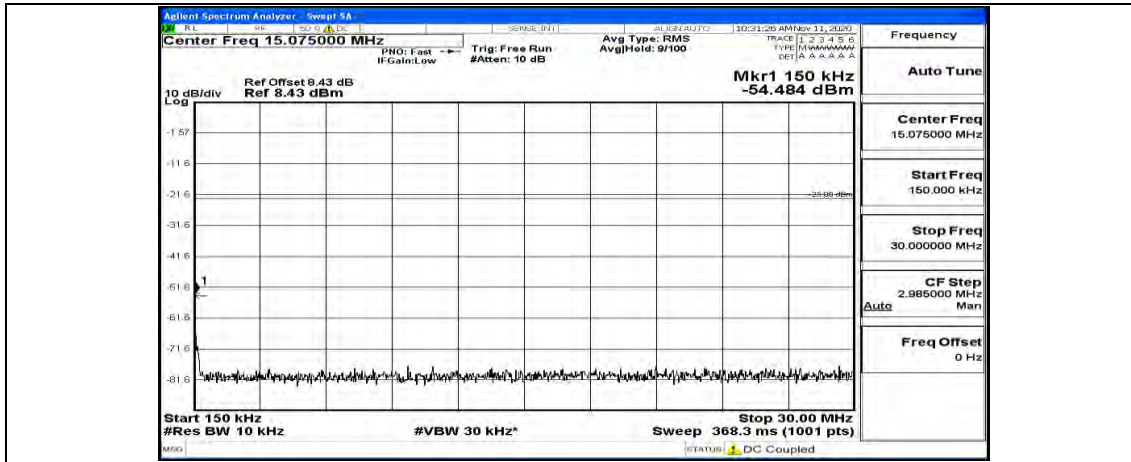


(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#3

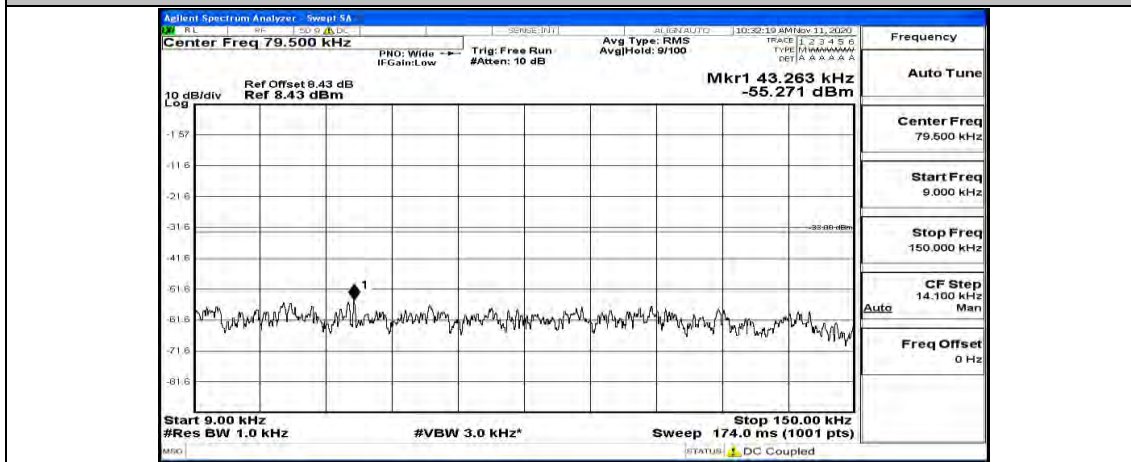


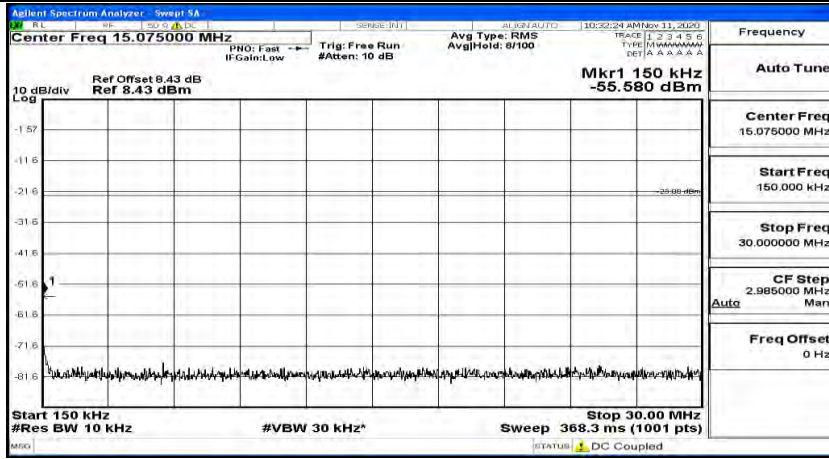
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#5



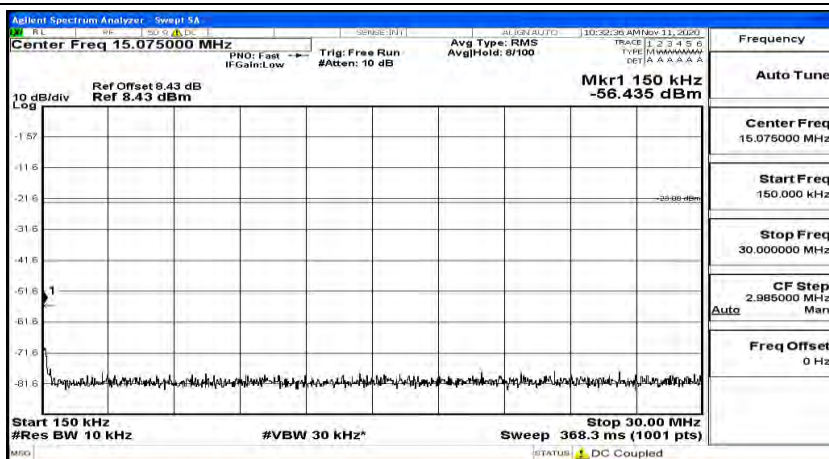
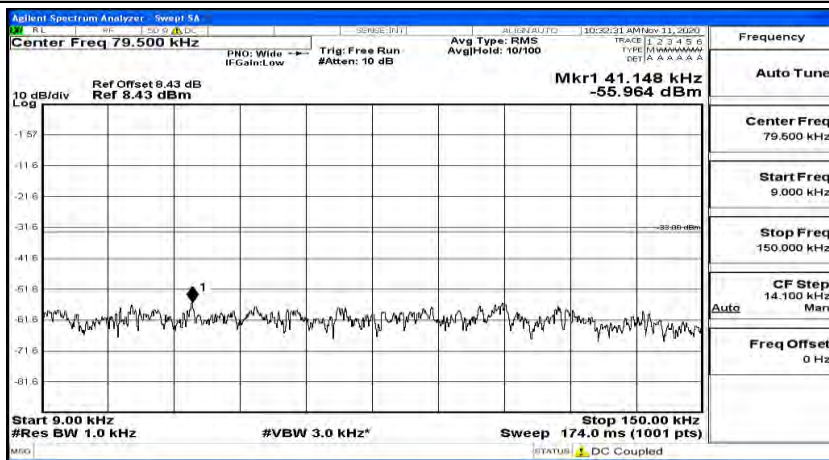


(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#0



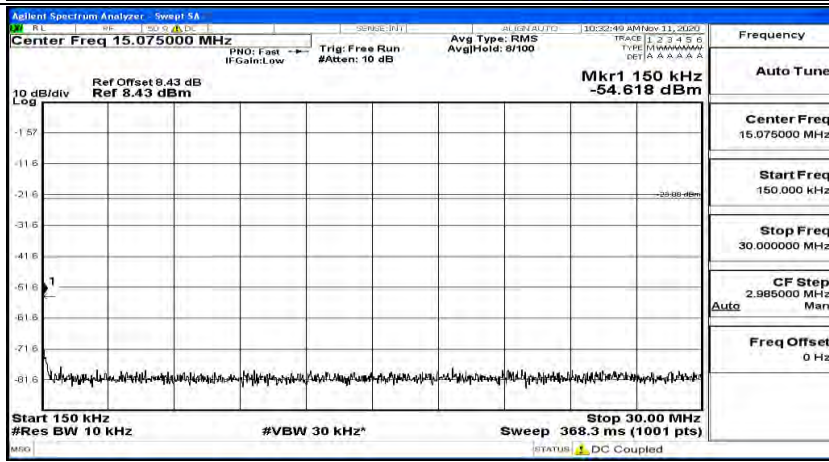
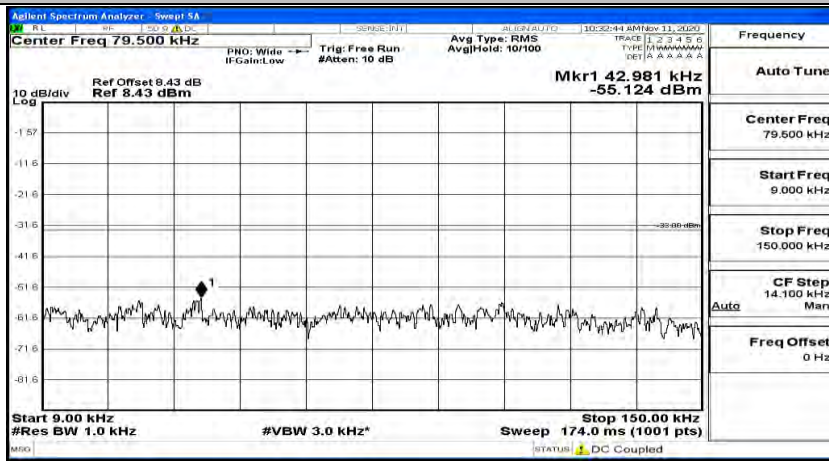


(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#3





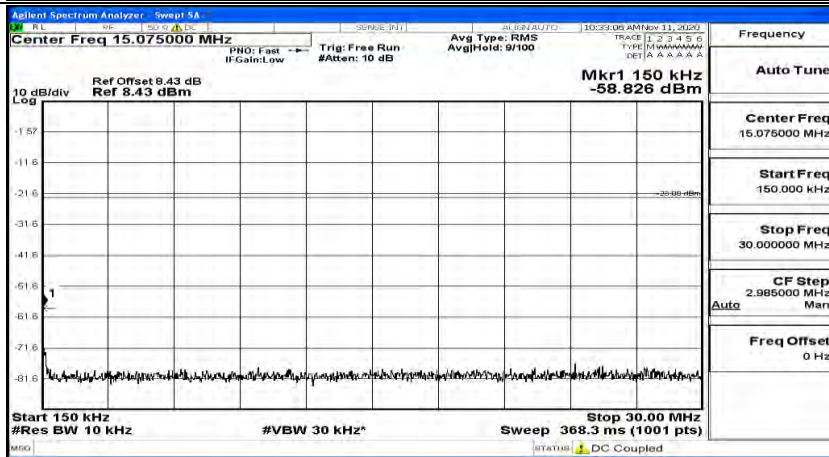
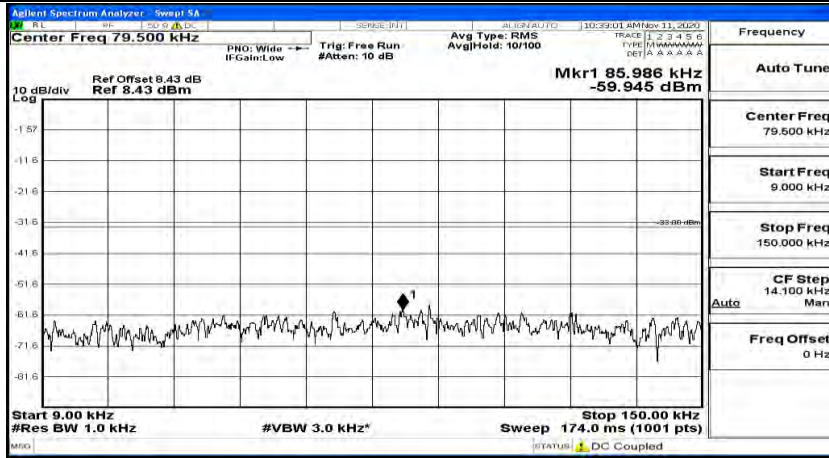
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#5



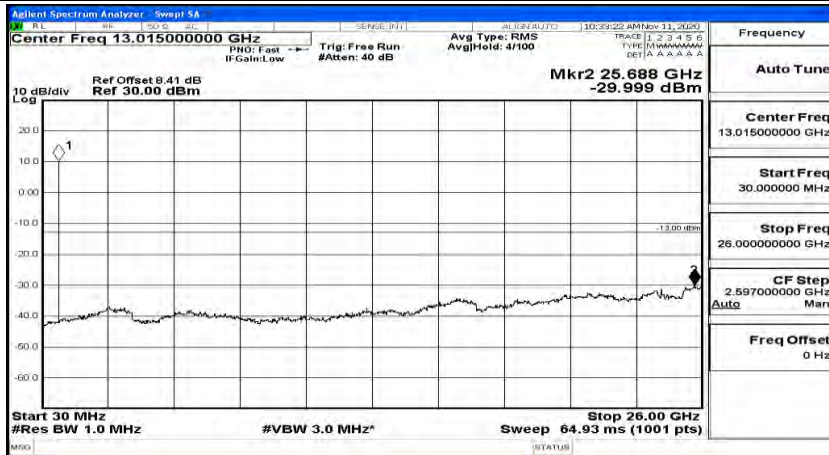
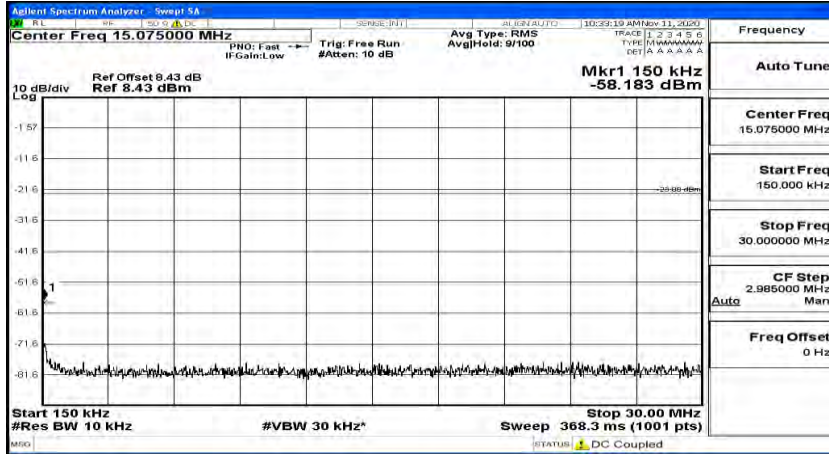
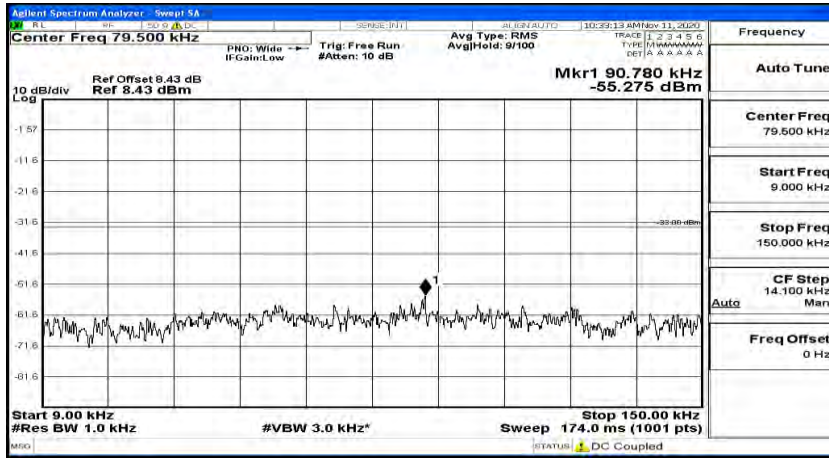


Channel Bandwidth: 3 MHz

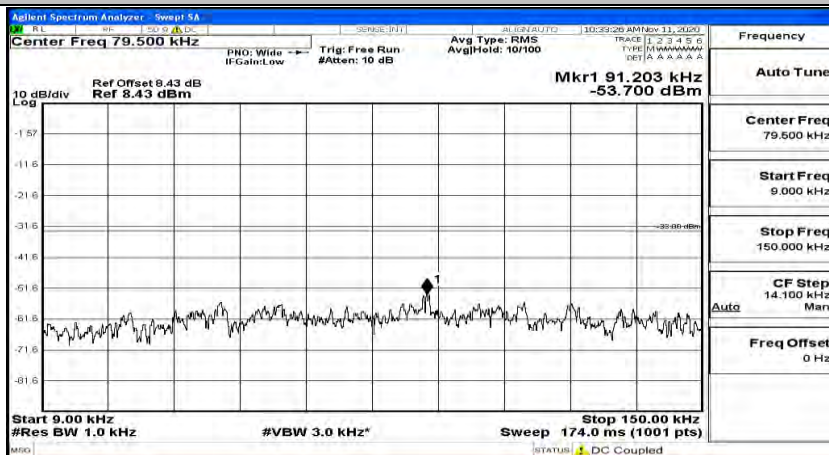
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#0

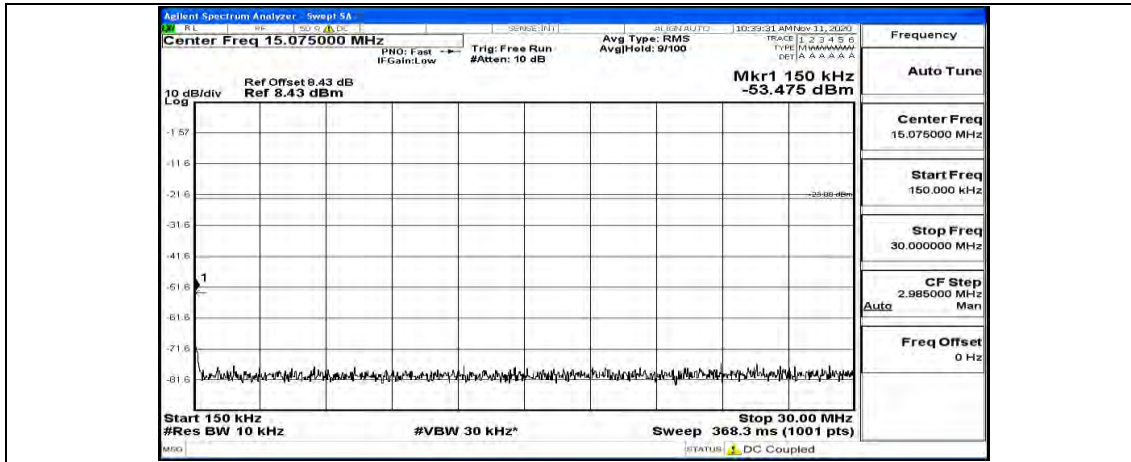


(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#7

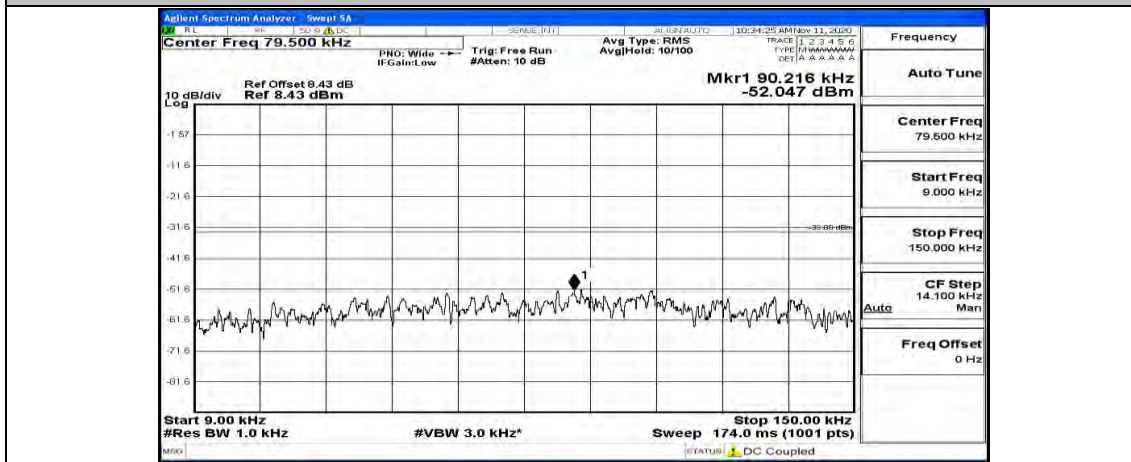


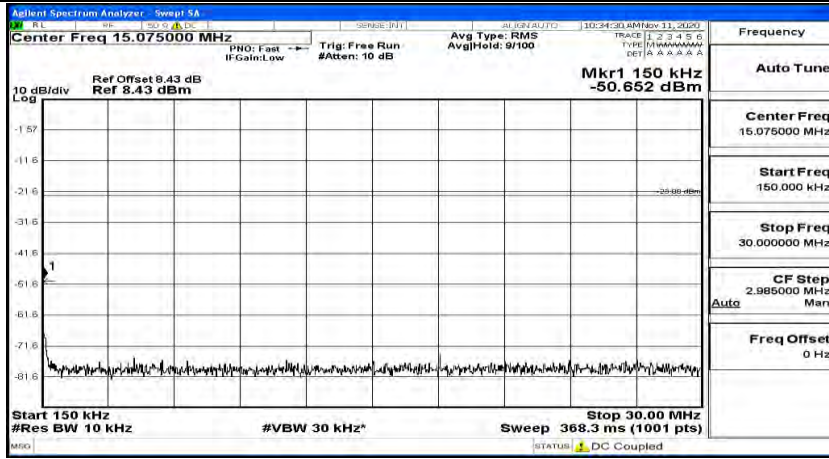
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#14



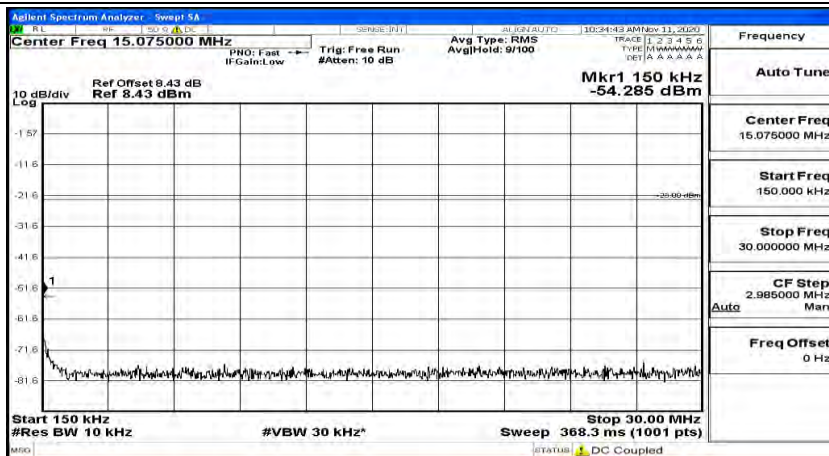
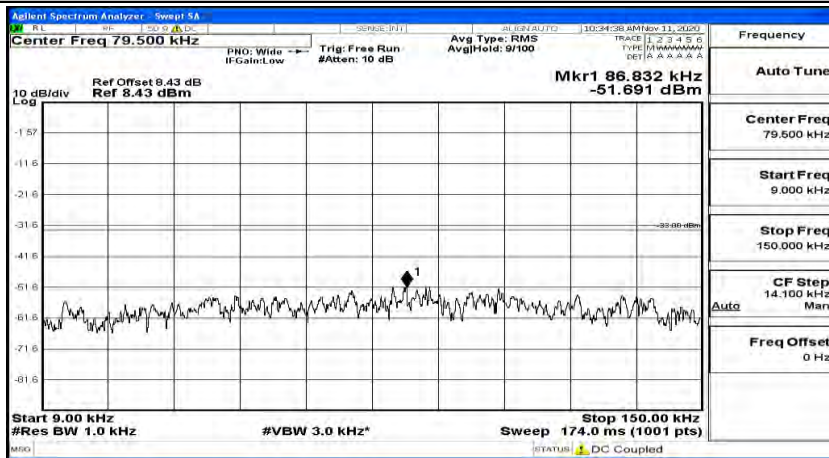


(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#0



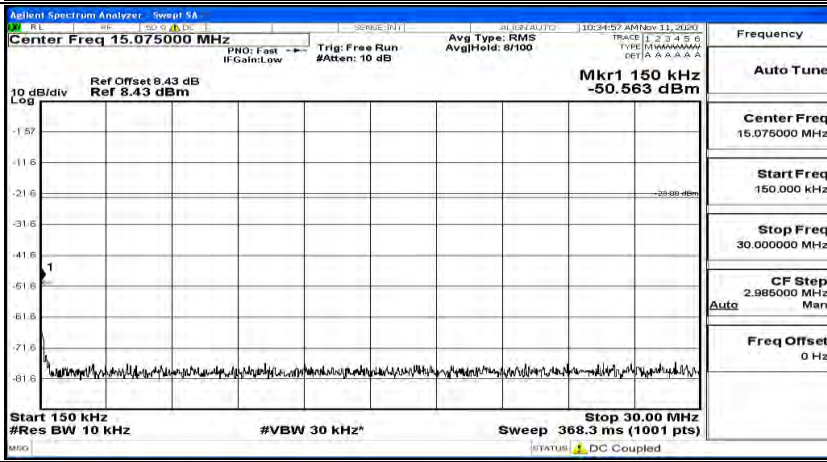
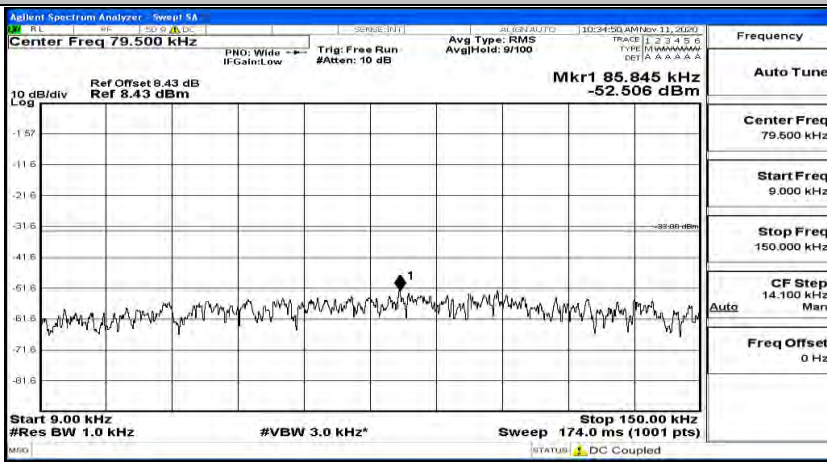


(Channel Bandwidth: 3 MHz) MCH\_QPSK\_1RB#7

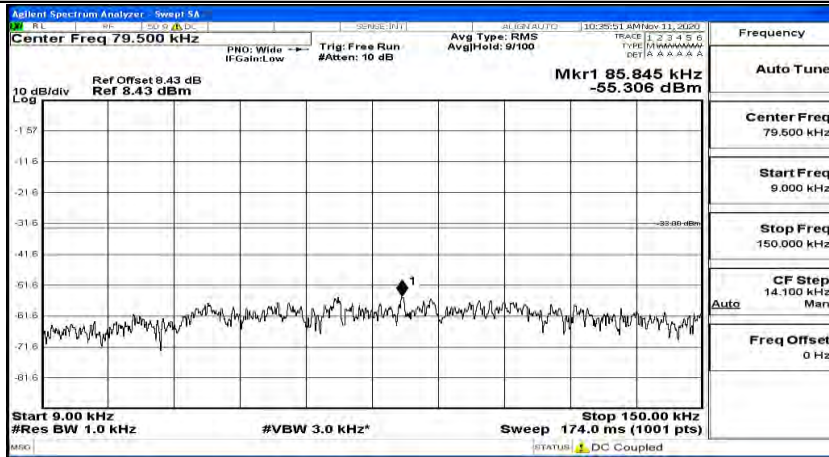




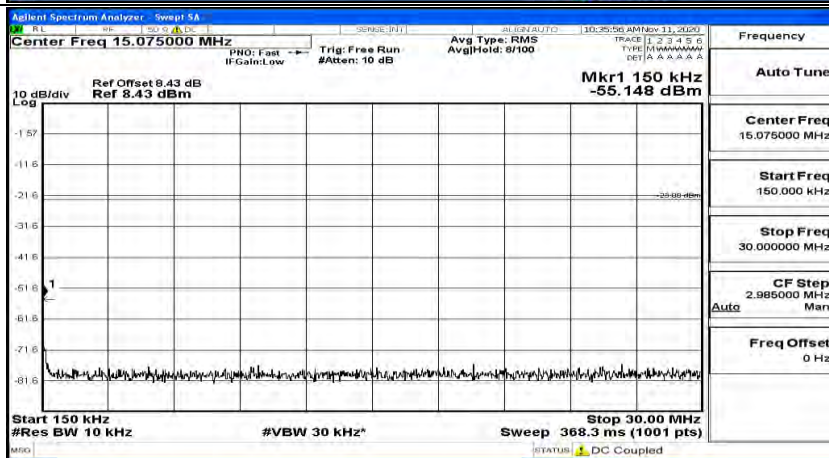
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#14



(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#0



Frequency
Auto Tune
Center Freq 79.500 kHz
Start Freq 9.000 kHz
Stop Freq 150.000 kHz
CF Step 14.100 kHz Man
Freq Offset 0 Hz

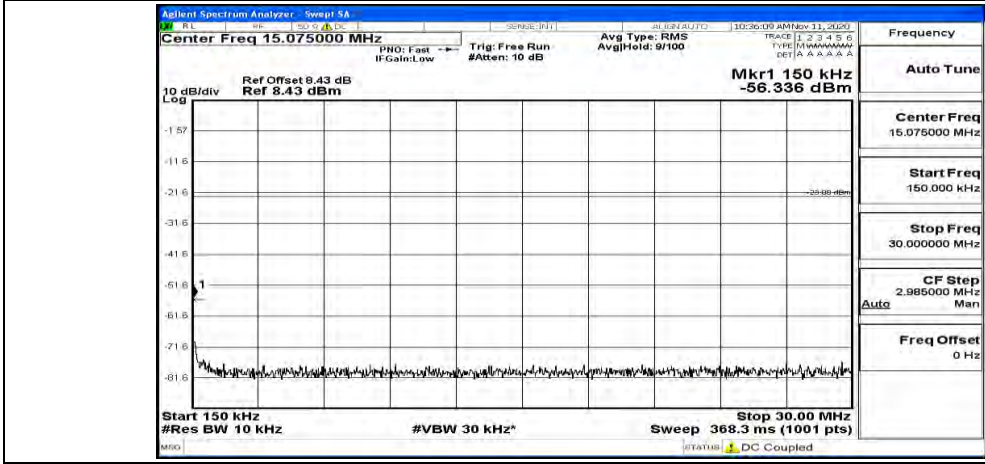
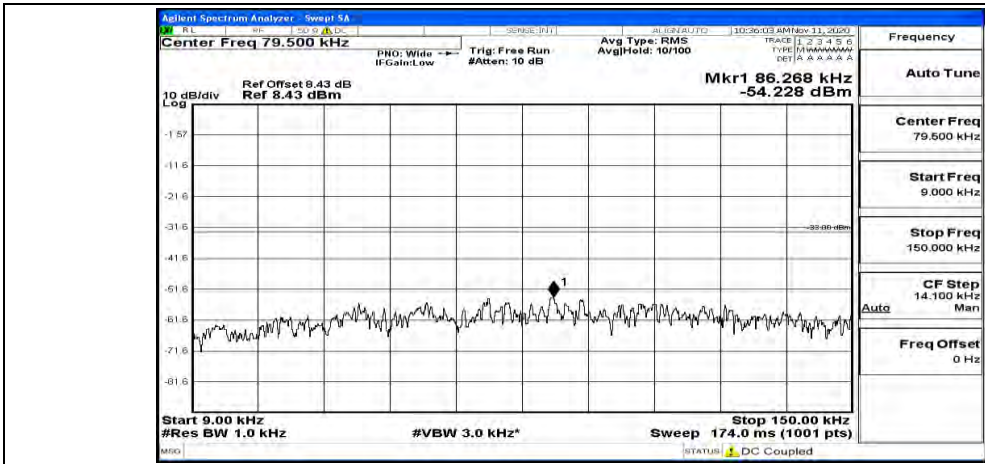


Frequency
Auto Tune
Center Freq 15.075000 MHz
Start Freq 150.000 kHz
Stop Freq 30.000000 MHz
CF Step 2.985000 MHz Man
Freq Offset 0 Hz

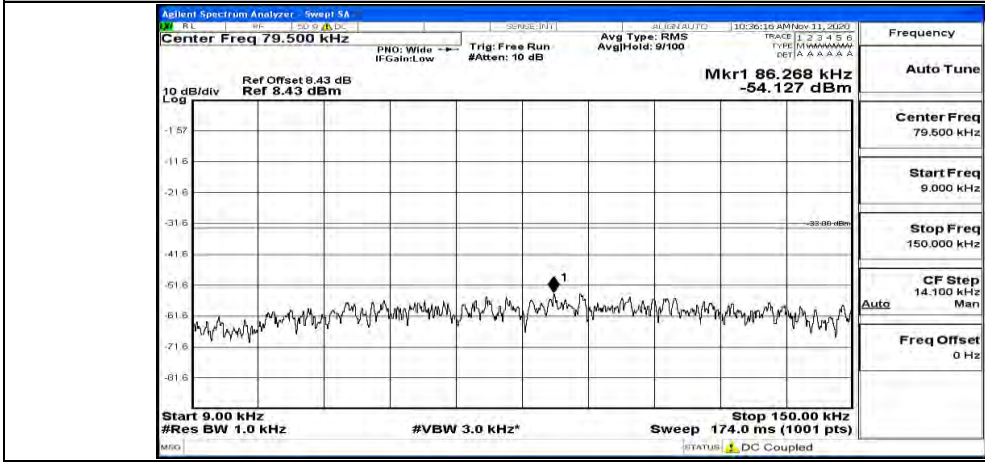


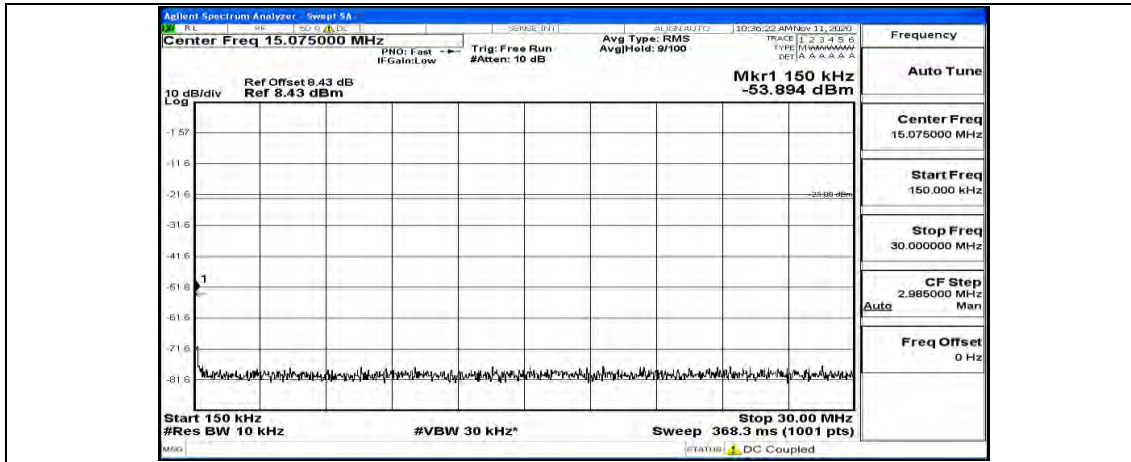
Frequency
Auto Tune
Center Freq 13.015000000 GHz
Start Freq 30.000000 MHz
Stop Freq 26.000000000 GHz
CF Step 2.597000000 GHz Man
Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#7



(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#14





(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#0

