

Appendix J: Test Data for E-UTRA Band 17

Product Name: 3G/4G Smart Phone

Trade Mark: DOOGEE

Test Model: S88Plus

Environmental Conditions

Temperature:	22.9° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

J.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	22.60	21.59	PASS
		1	12	22.63	21.64	PASS
		1	24	22.40	21.42	PASS
		12	0	21.64	20.60	PASS
		12	6	21.65	20.58	PASS
		12	13	21.53	20.52	PASS
		25	0	21.59	20.60	PASS
	MCH	1	0	22.47	21.42	PASS
		1	12	22.52	21.49	PASS
		1	24	22.30	21.27	PASS
		12	0	21.37	20.27	PASS
		12	6	21.35	20.27	PASS
		12	13	21.45	20.37	PASS
		25	0	21.43	20.40	PASS
	HCH	1	0	22.33	21.51	PASS
		1	12	22.40	21.57	PASS
		1	24	22.28	21.46	PASS
		12	0	21.37	20.34	PASS
		12	6	21.39	20.35	PASS
		12	13	21.16	20.10	PASS
		25	0	21.26	20.20	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	22.54	21.70	PASS
		1	24	22.51	21.65	PASS
		1	49	22.27	21.41	PASS
		25	0	21.60	20.53	PASS
		25	12	21.59	20.57	PASS
		25	25	21.50	20.43	PASS
		50	0	21.53	20.50	PASS
	MCH	1	0	22.59	21.66	PASS
		1	24	22.48	21.62	PASS
		1	49	22.31	21.43	PASS
		25	0	21.46	20.43	PASS
		25	12	21.48	20.44	PASS
		25	25	21.35	20.35	PASS
		50	0	21.33	20.35	PASS
	HCH	1	0	22.55	21.43	PASS
		1	24	22.51	21.43	PASS
		1	49	22.34	21.28	PASS
		25	0	21.38	20.39	PASS
		25	12	21.35	20.37	PASS
		25	25	21.22	20.20	PASS
		50	0	21.26	20.23	PASS

J.2 Peak-to-Average Ratio

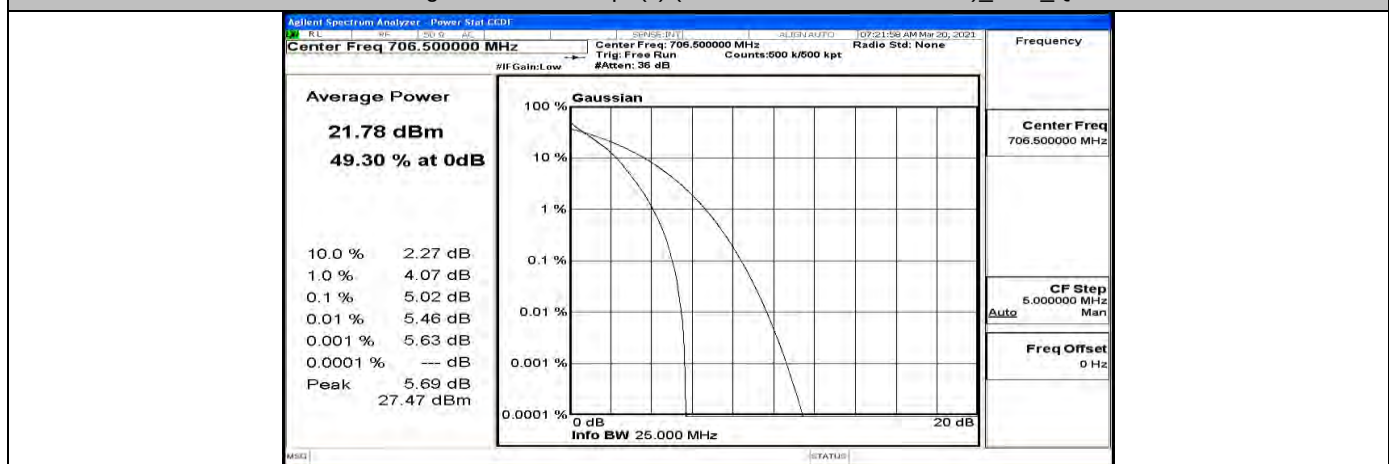
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.02	<13	PASS
	MCH	4.88	<13	PASS
	HCH	4.62	<13	PASS
16QAM	LCH	5.75	<13	PASS
	MCH	5.72	<13	PASS
	HCH	5.5	<13	PASS

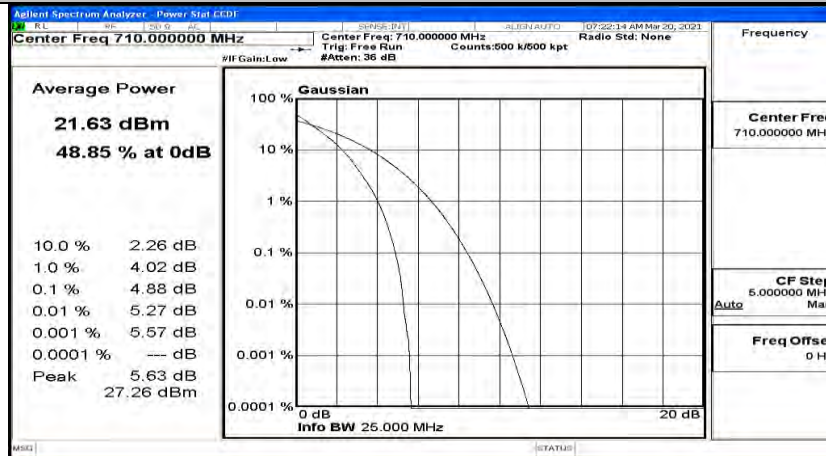
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.92	<13	PASS
	MCH	4.86	<13	PASS
	HCH	4.8	<13	PASS
16QAM	LCH	5.72	<13	PASS
	MCH	5.75	<13	PASS
	HCH	5.69	<13	PASS

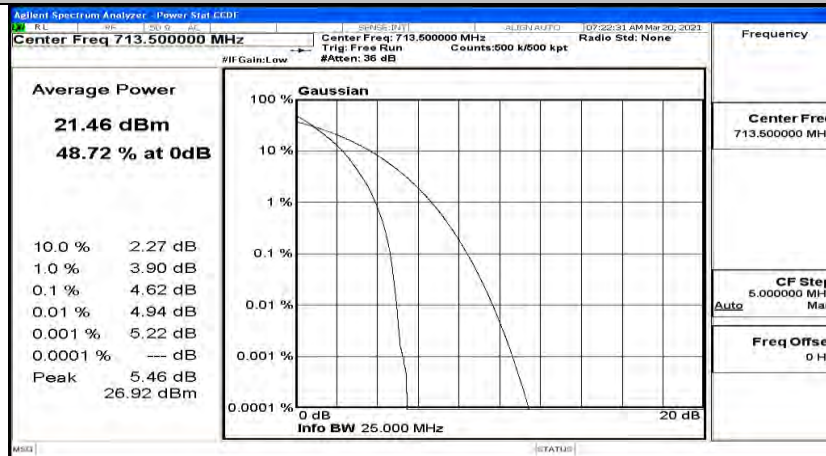
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



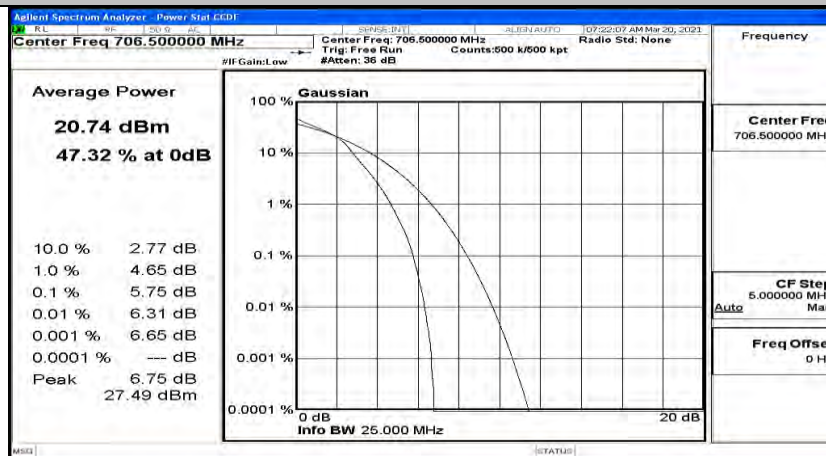
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



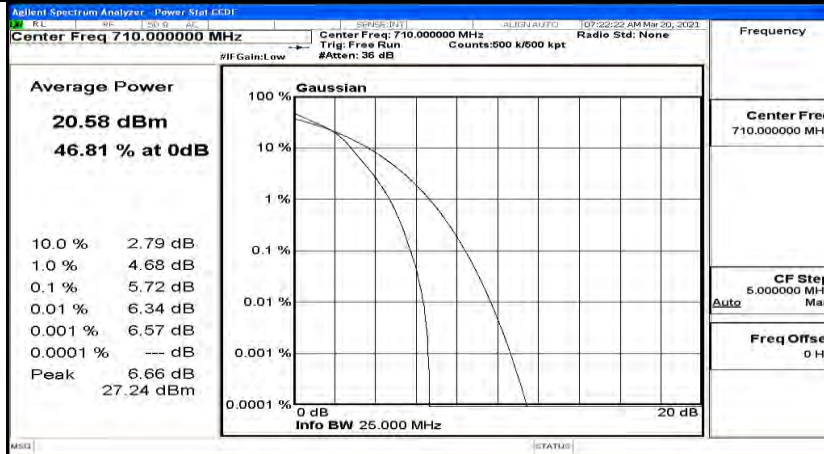
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



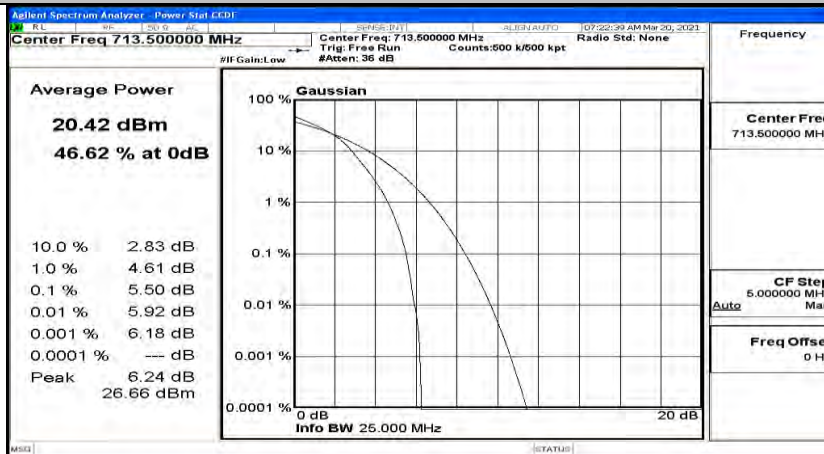
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



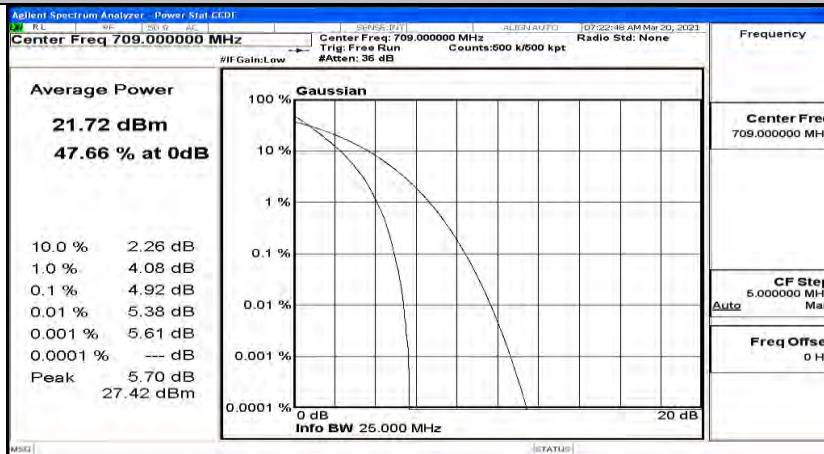
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



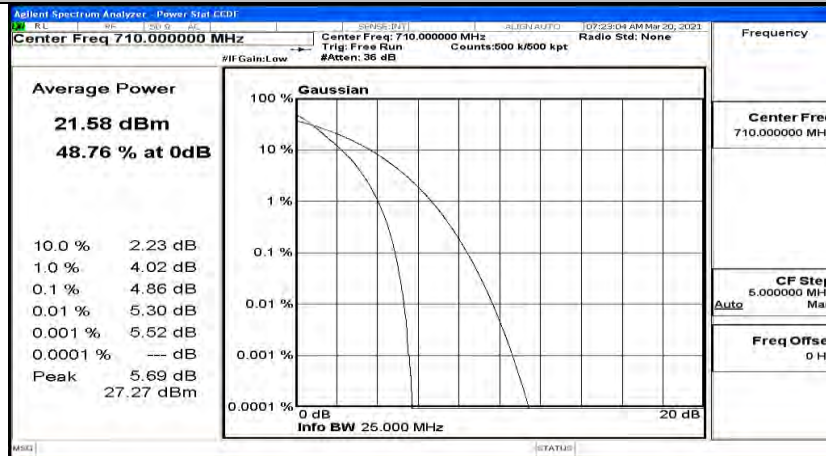
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



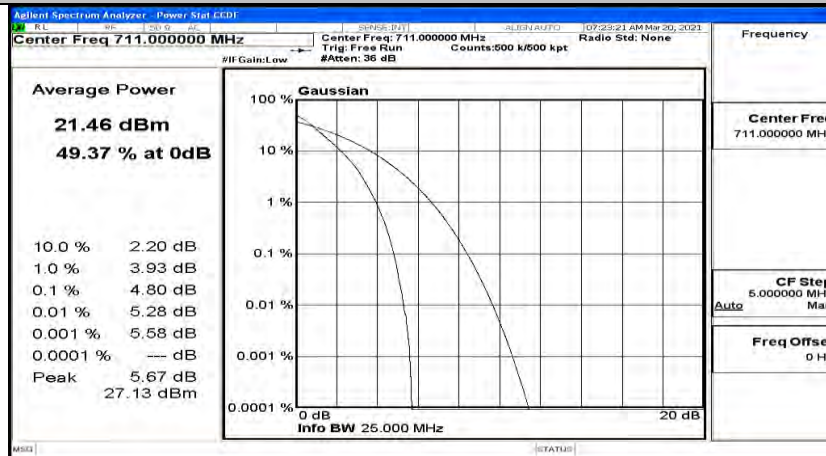
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



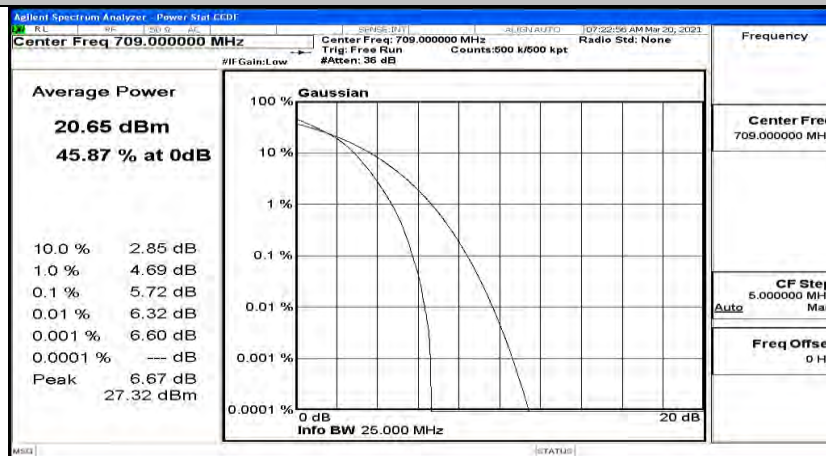
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



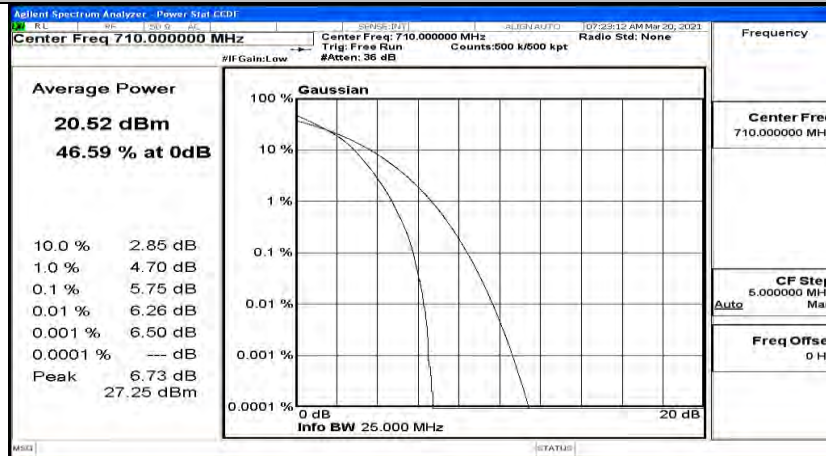
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



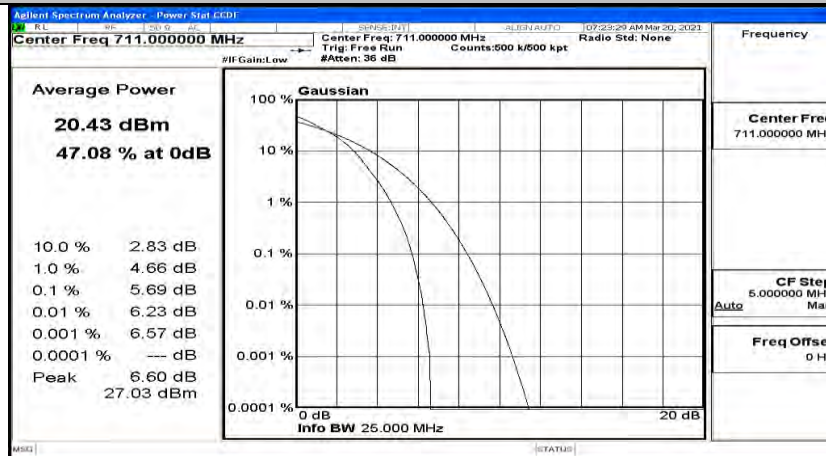
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

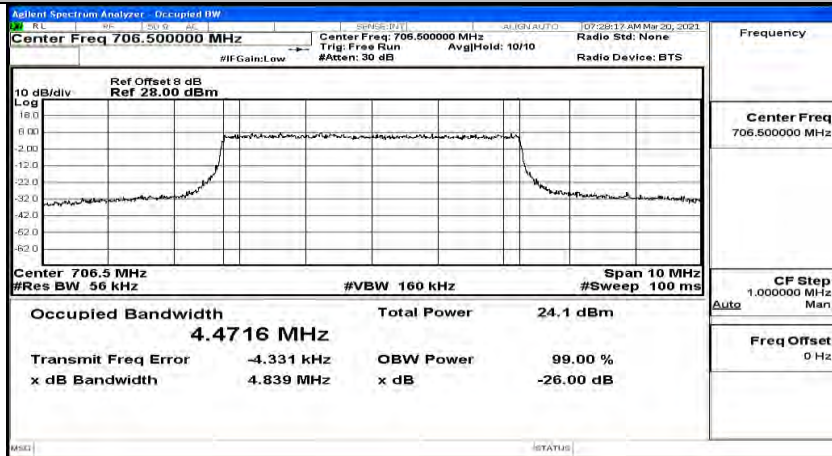


J.3 26dB Bandwidth and Occupied Bandwidth

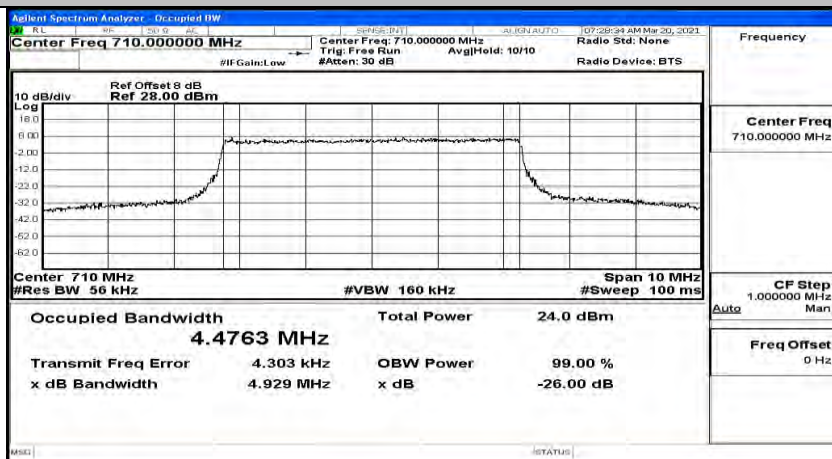
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4716	4.839	PASS
	MCH	4.4763	4.929	PASS
	HCH	4.4690	4.853	PASS
16QAM	LCH	4.4819	4.917	PASS
	MCH	4.4763	4.873	PASS
	HCH	4.4670	4.843	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9521	9.573	PASS
	MCH	8.9444	9.516	PASS
	HCH	8.9086	9.353	PASS
16QAM	LCH	8.9332	9.528	PASS
	MCH	8.9270	9.434	PASS
	HCH	8.9085	9.477	PASS

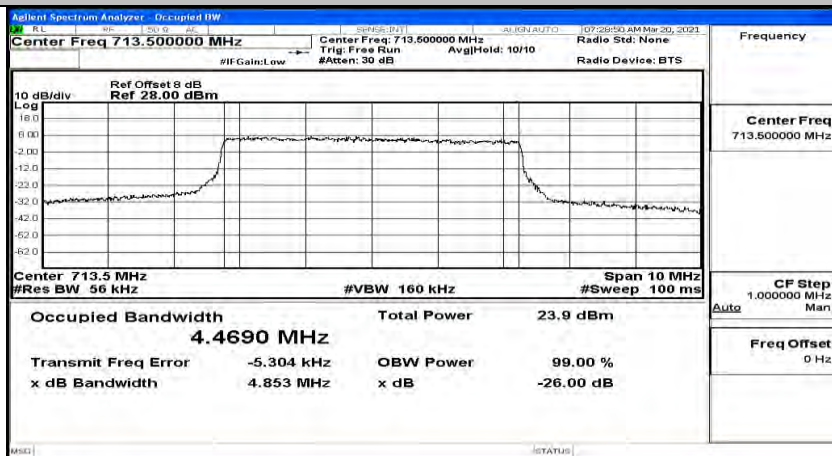
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



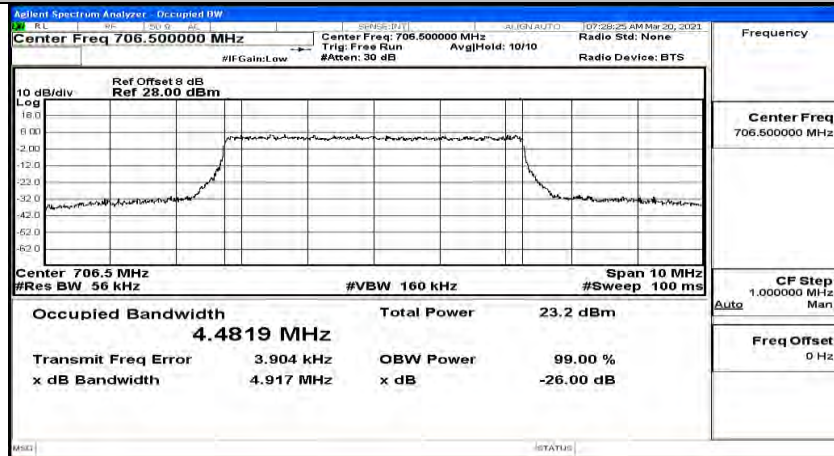
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



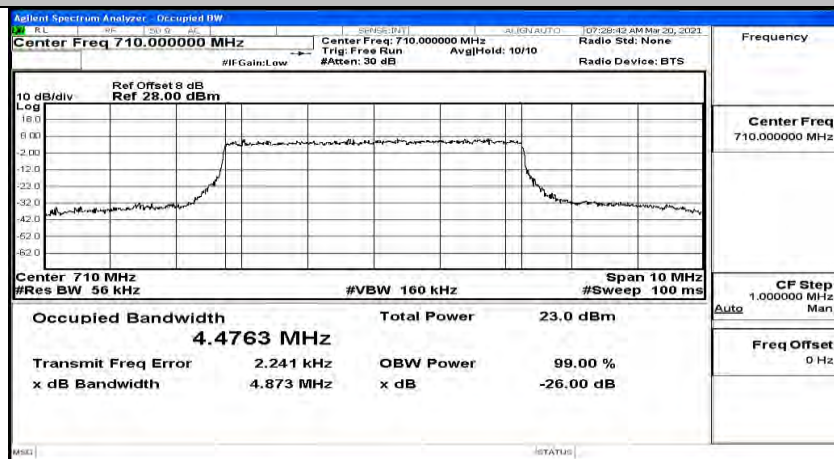
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



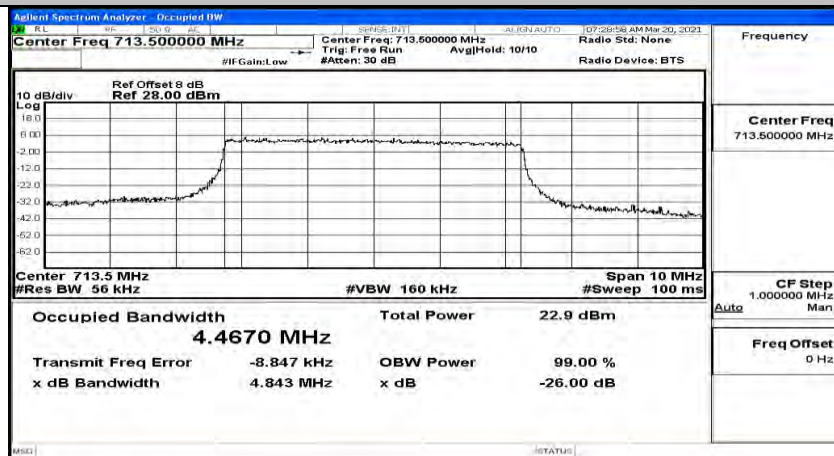
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



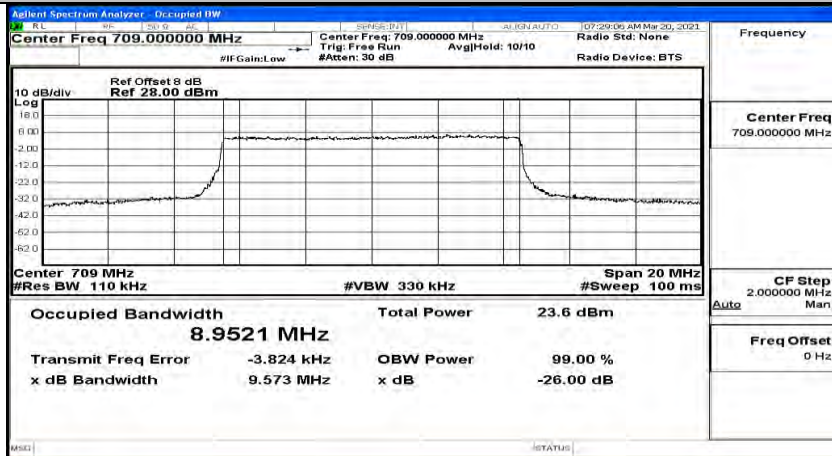
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



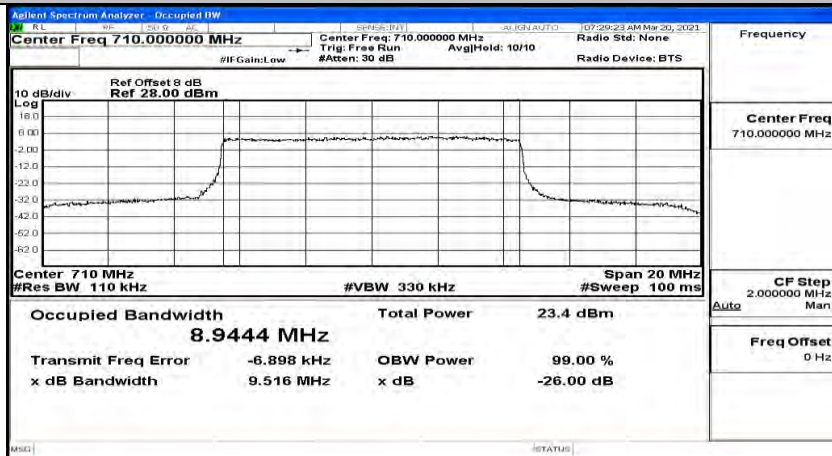
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



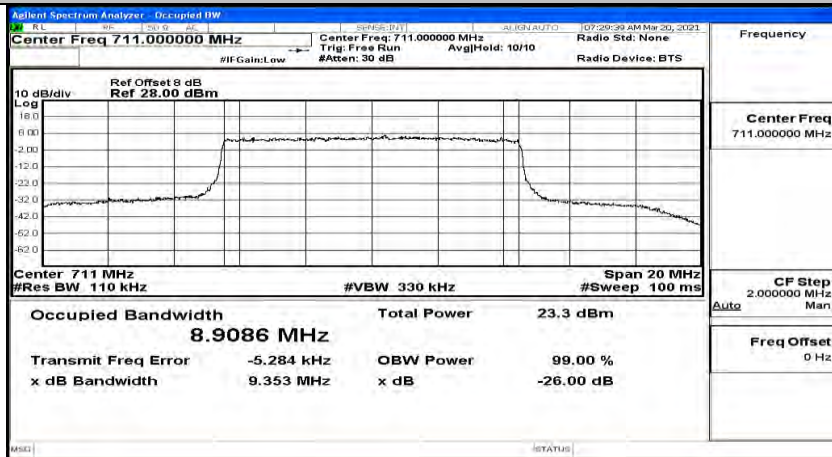
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



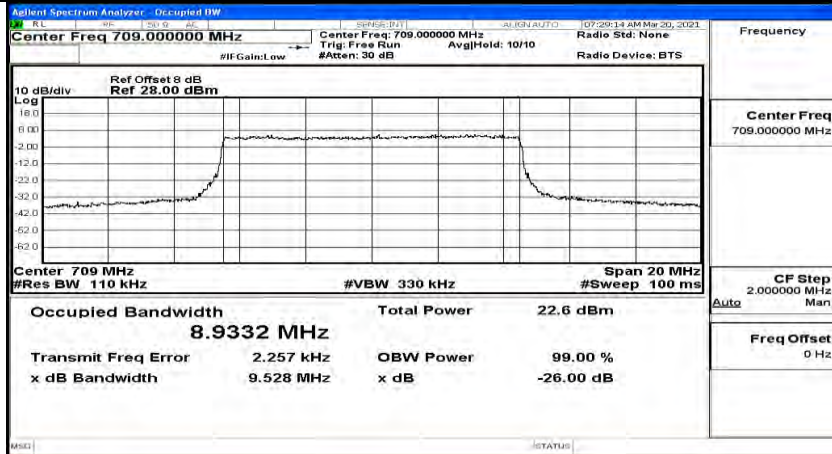
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



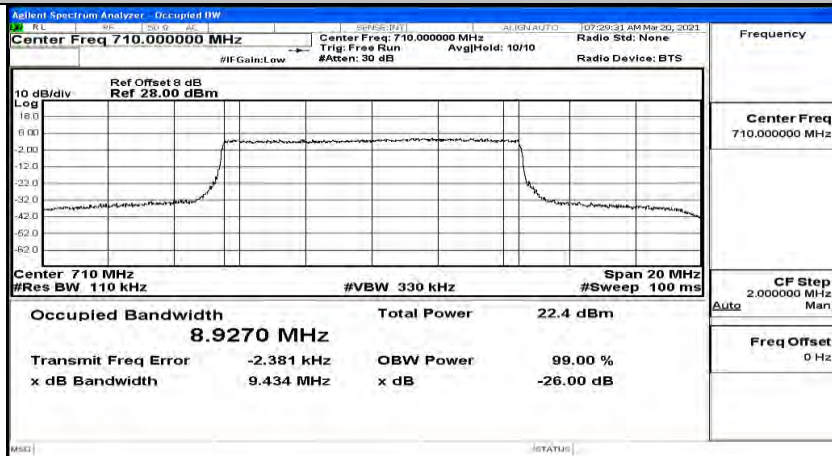
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



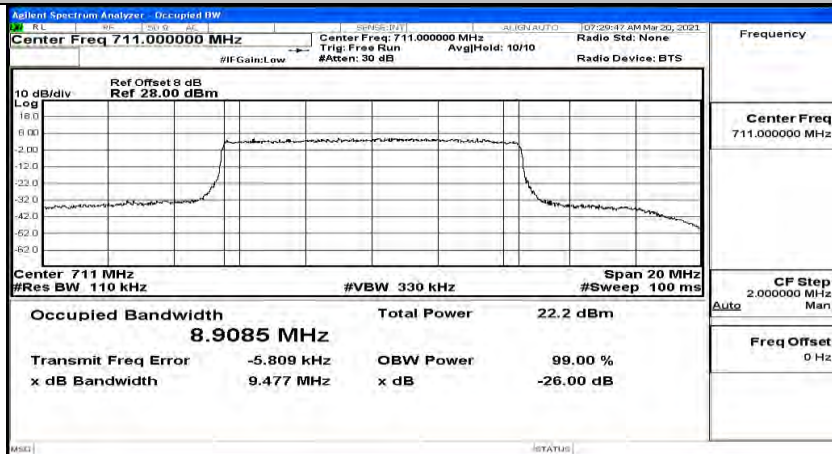
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

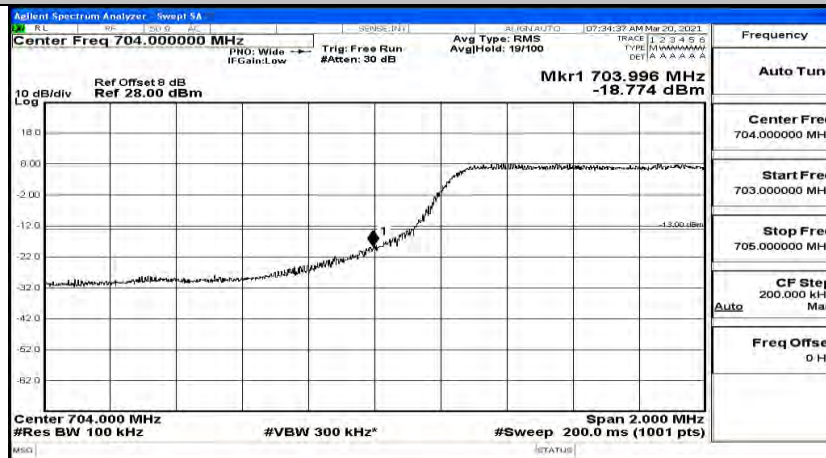


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

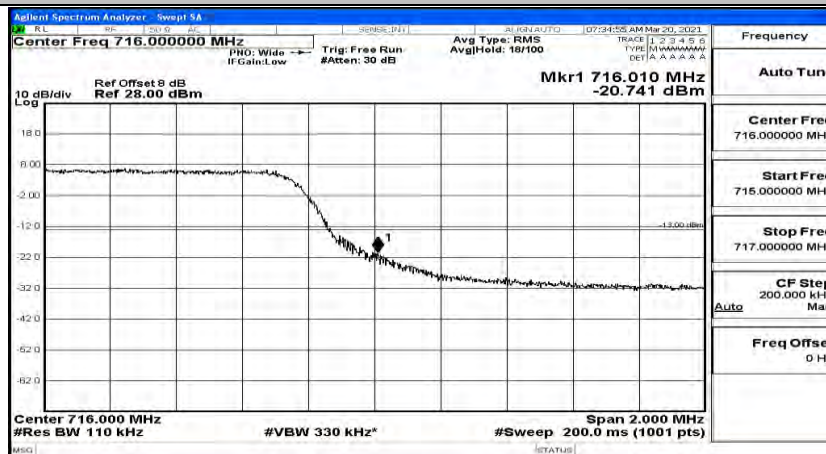


J.4 Band Edge

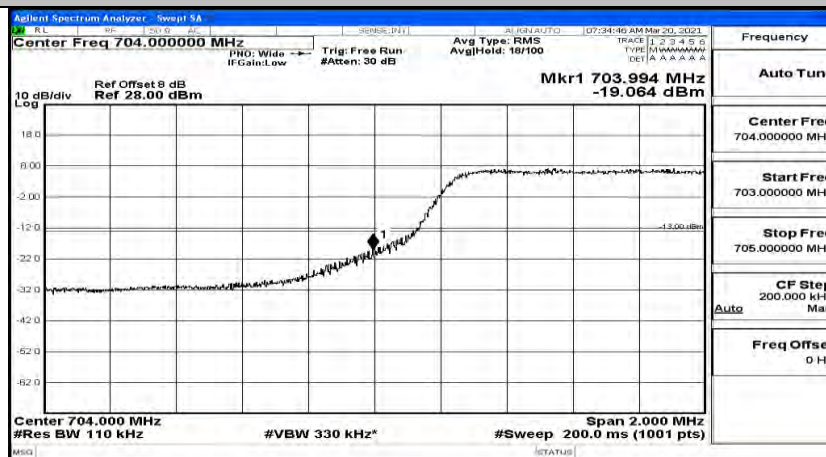
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



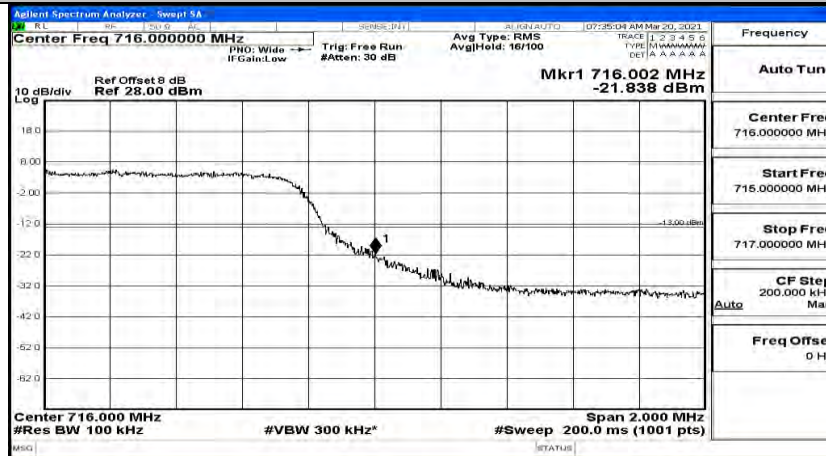
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



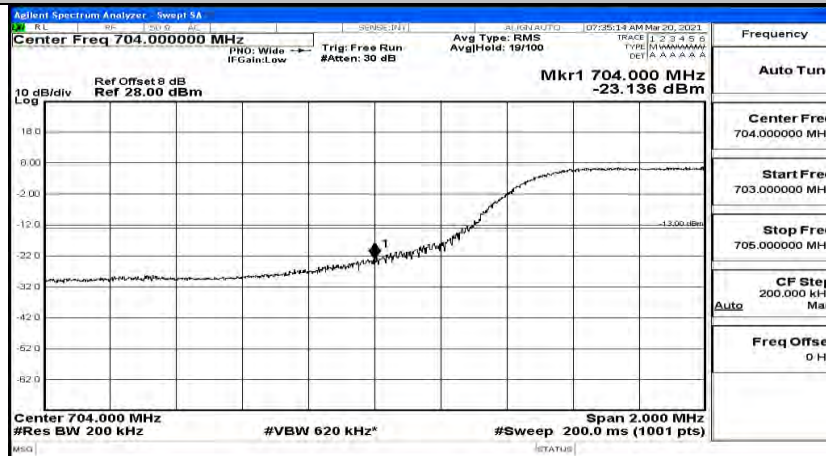
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



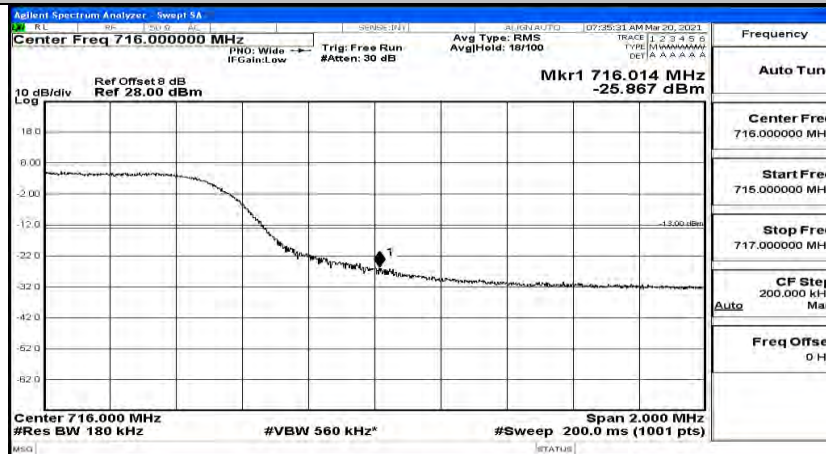
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



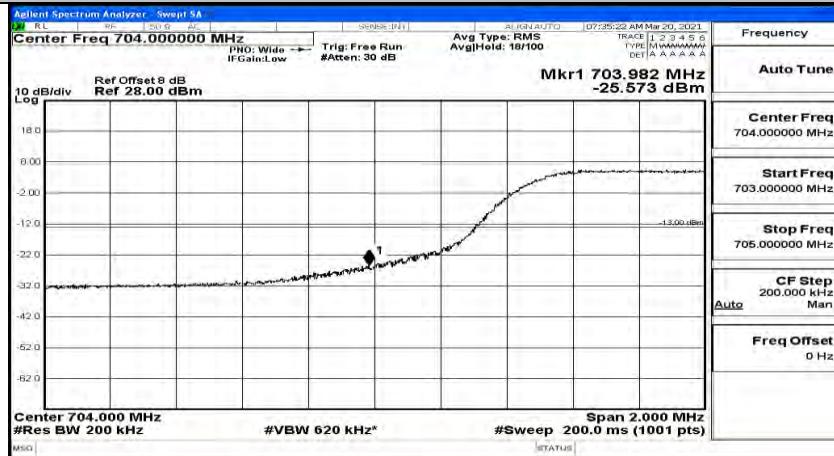
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



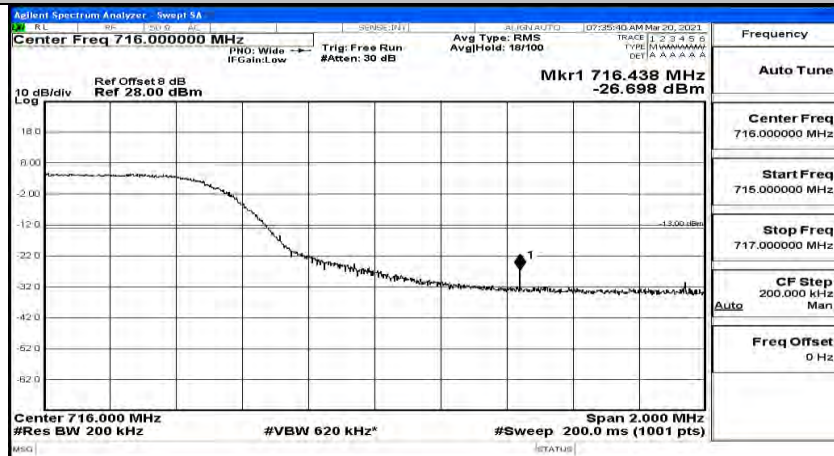
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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



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

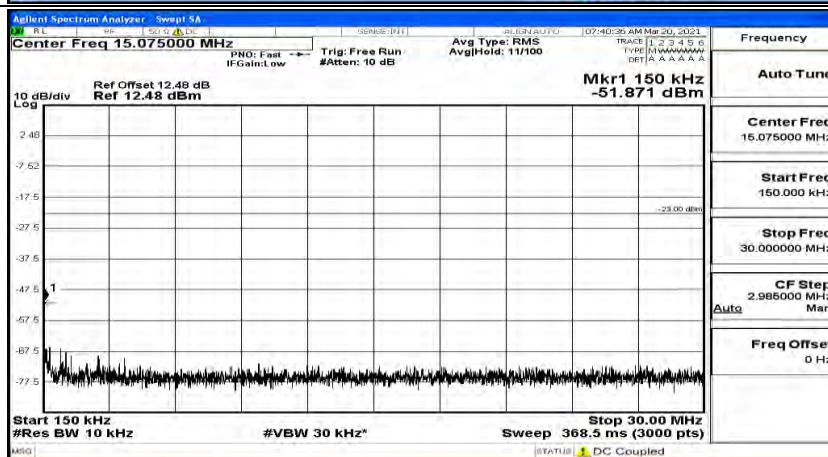
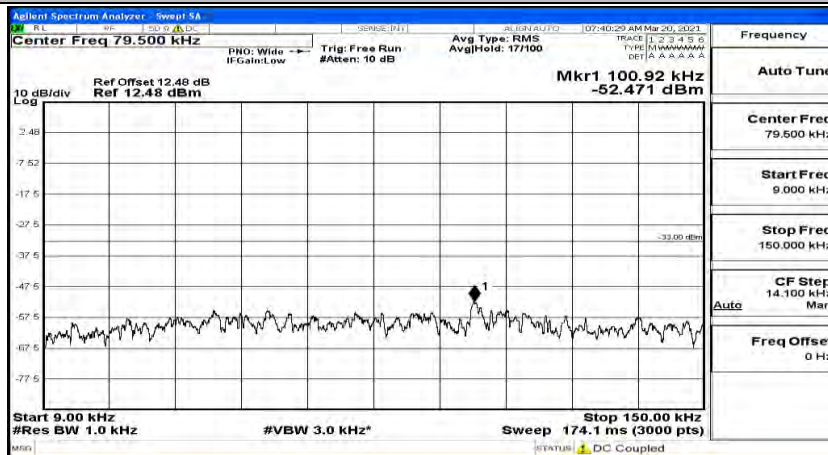


J.5 Conducted Spurious Emission

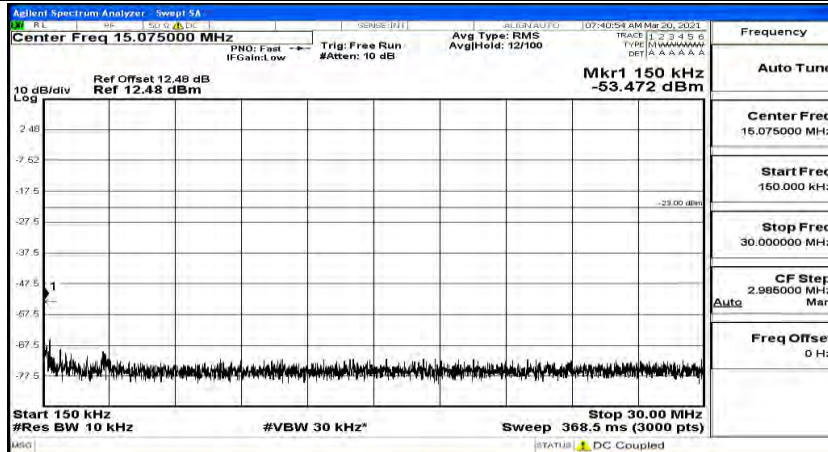
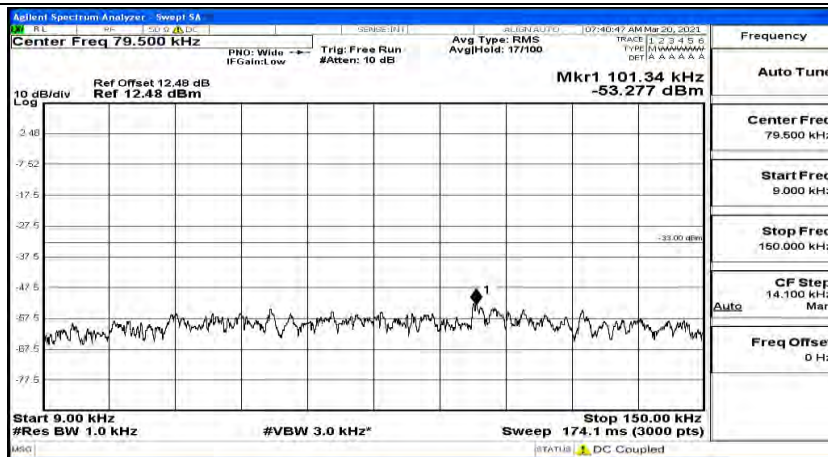
Test Graphs

Channel Bandwidth: 5 MHz

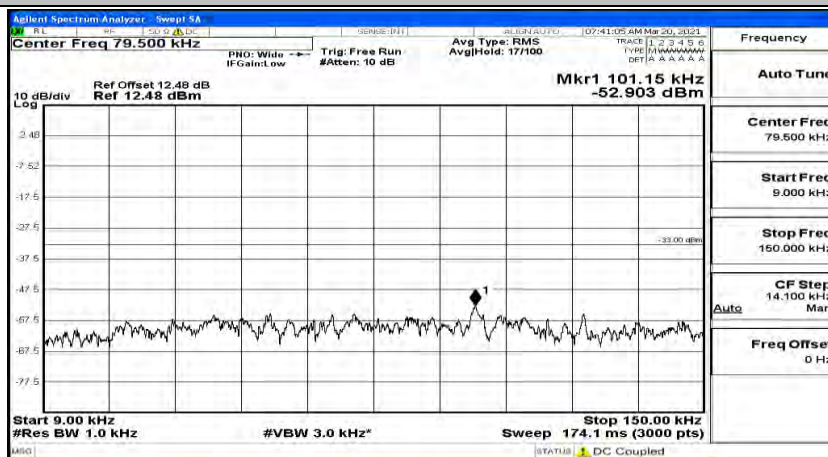
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

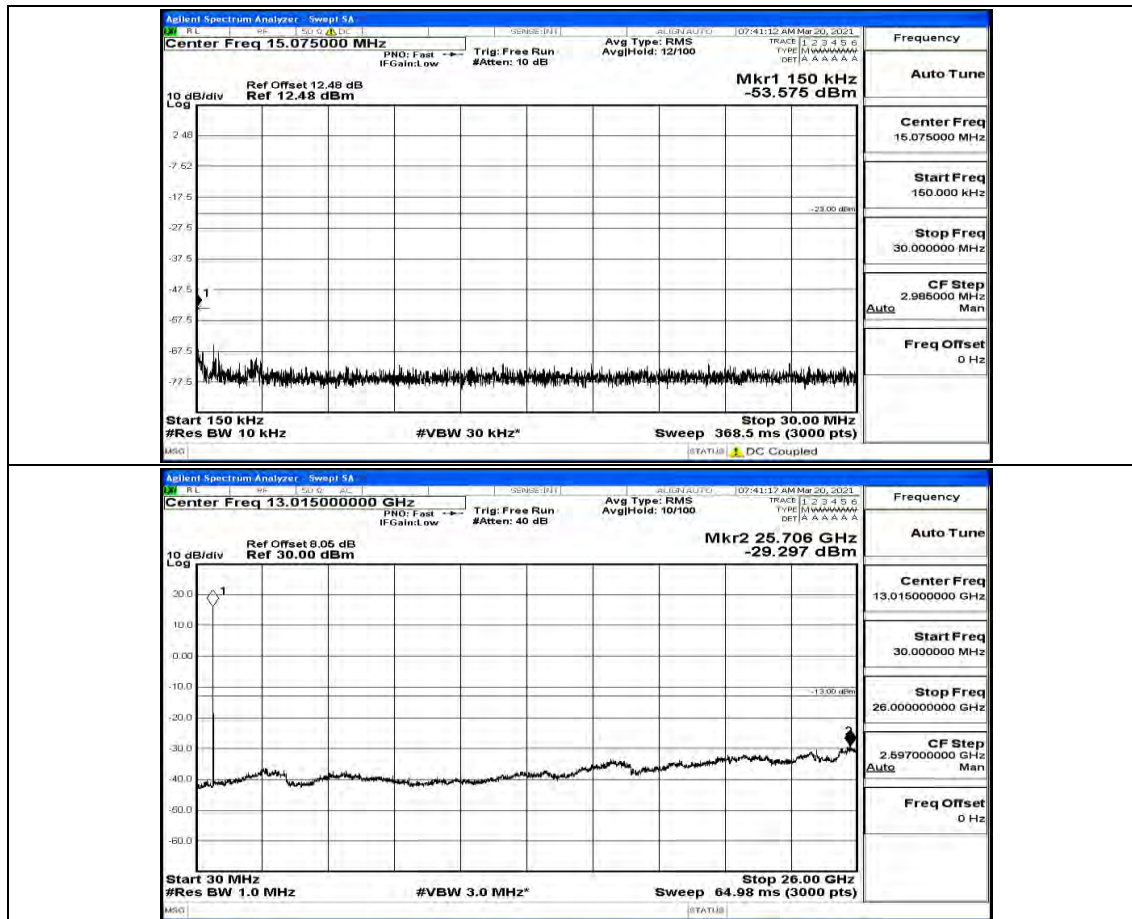


(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

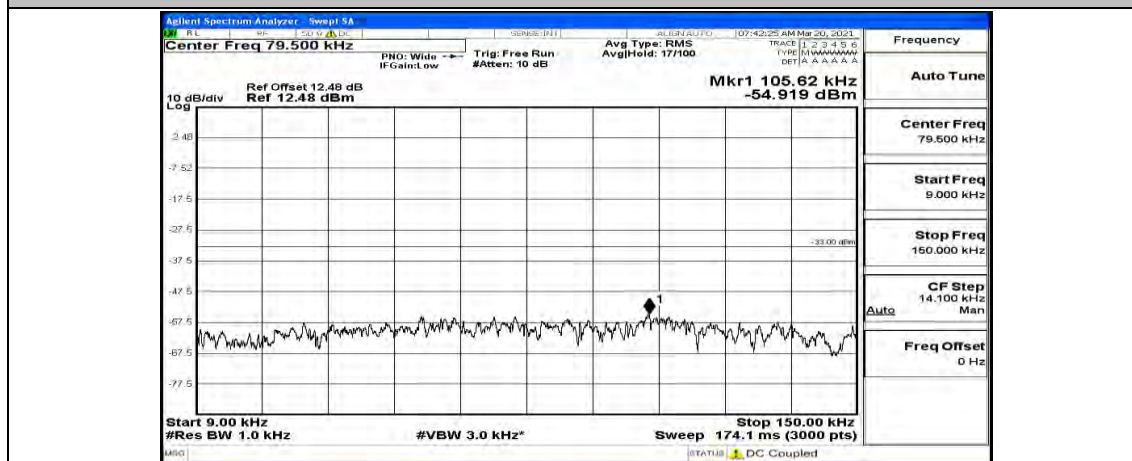


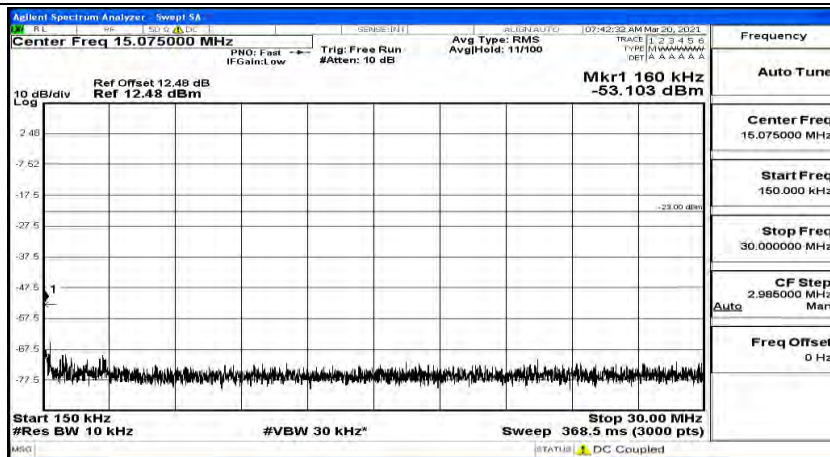
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



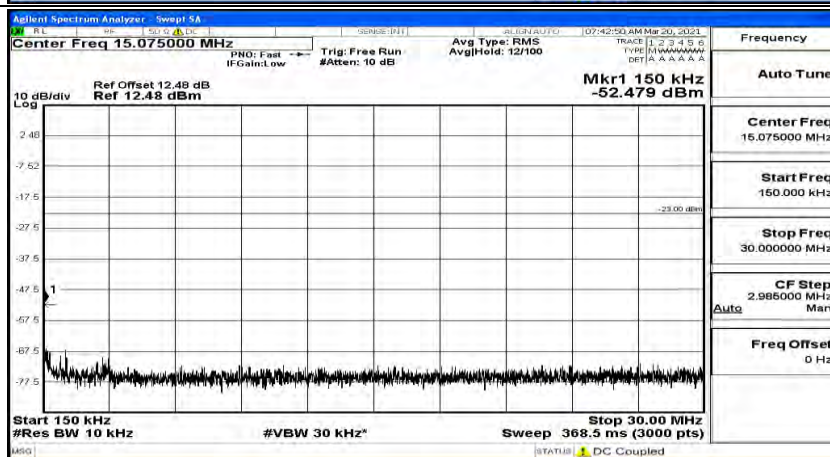
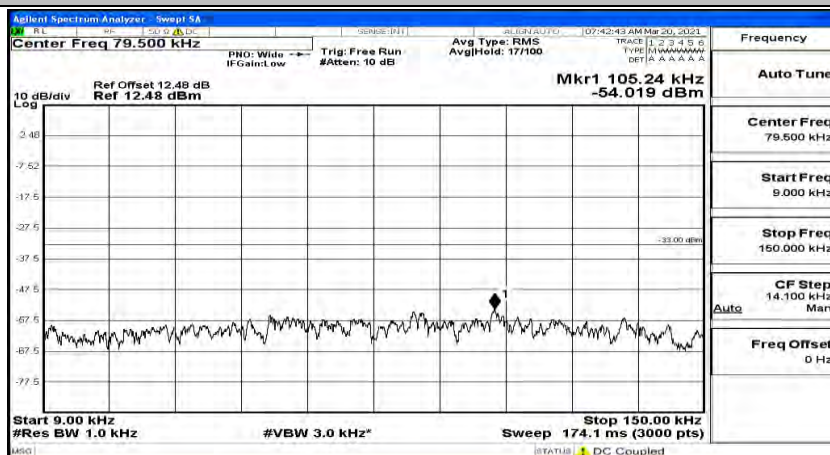


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



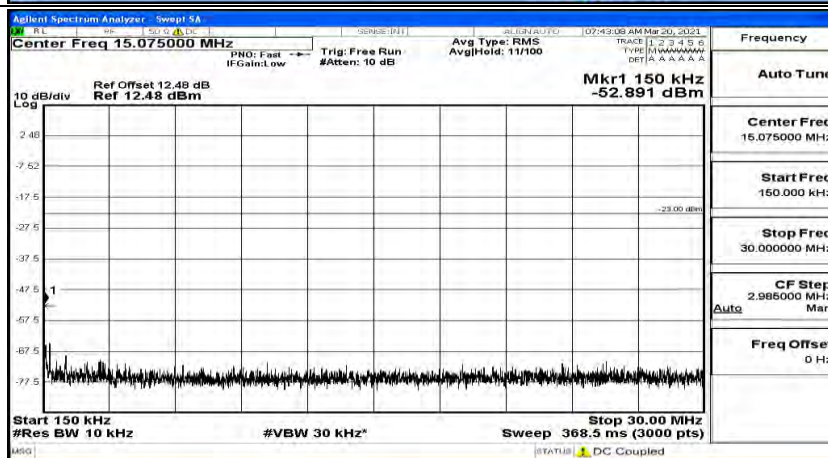
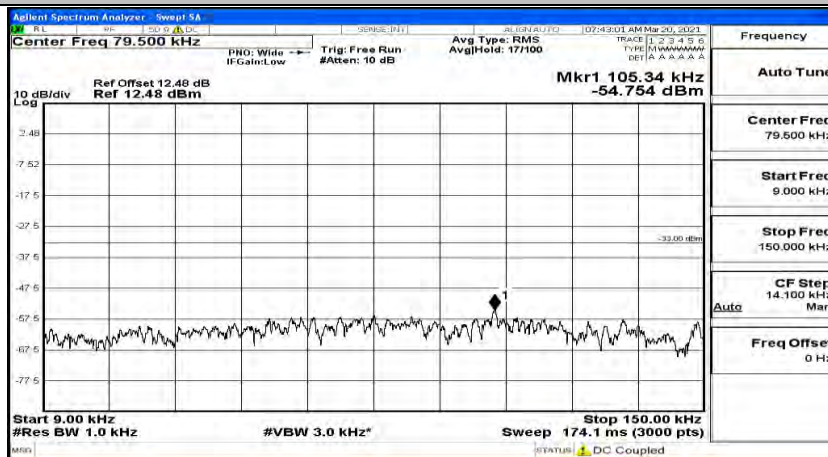


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

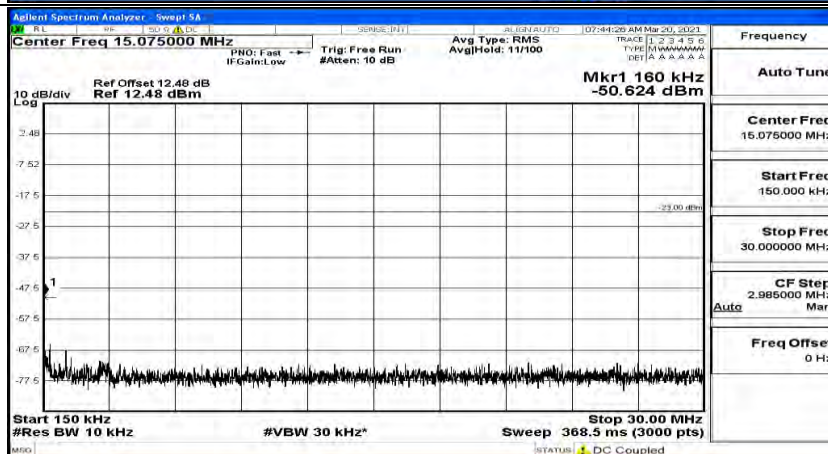
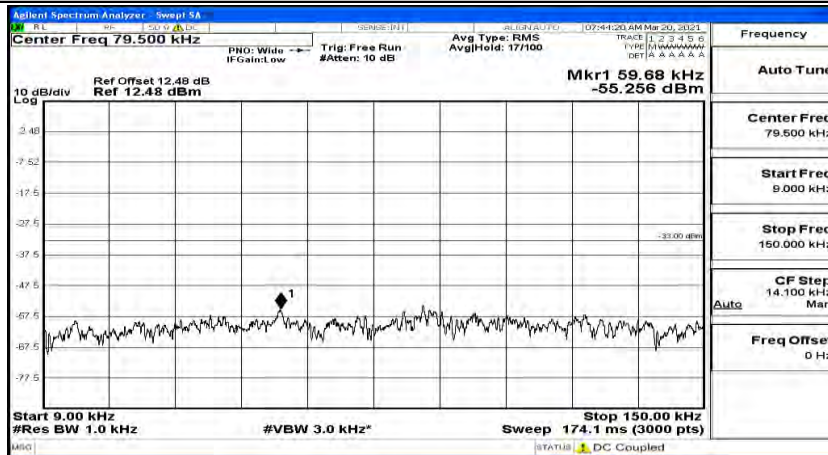




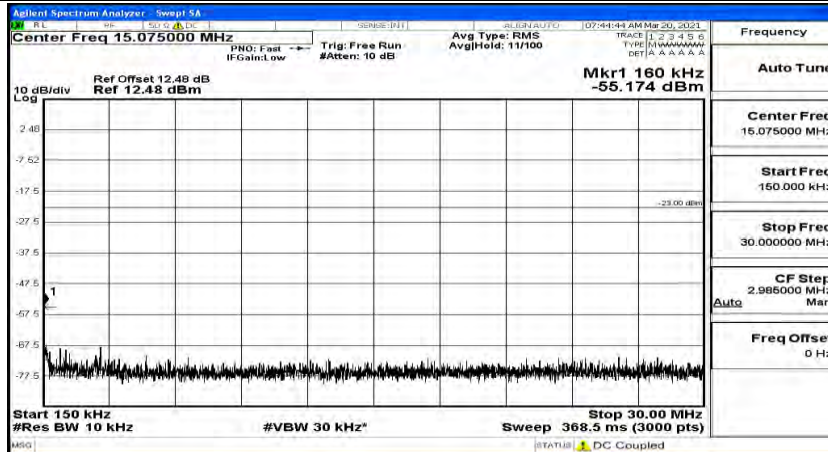
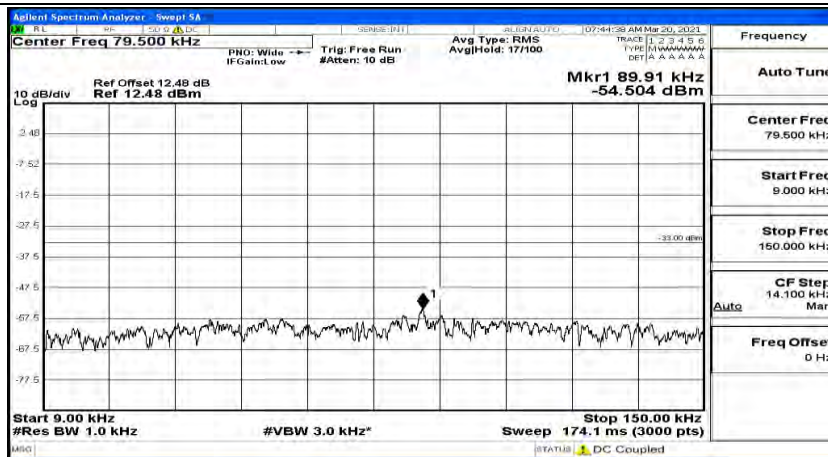
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



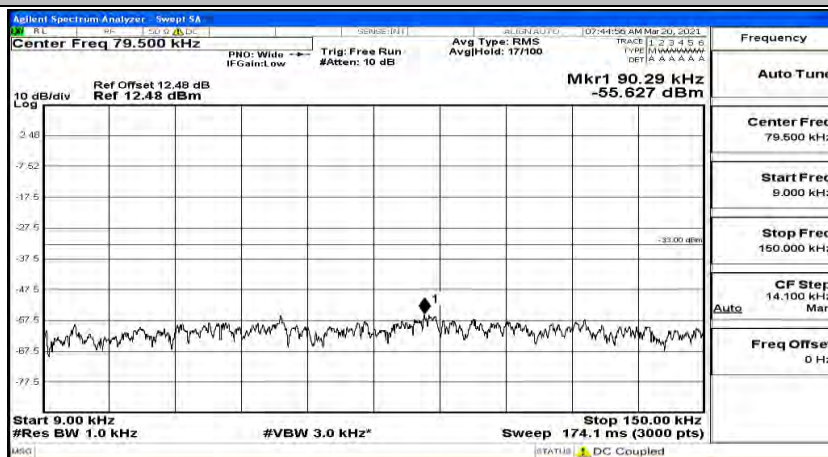
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

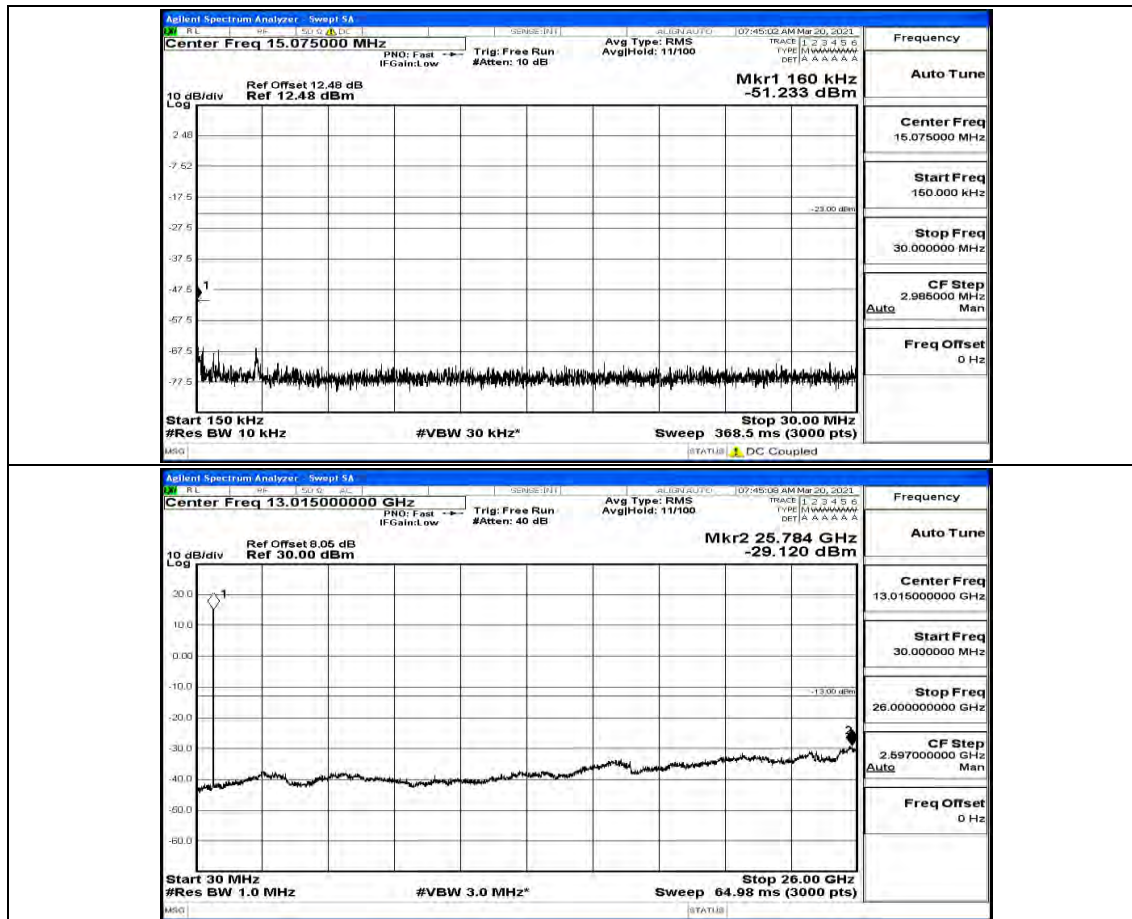


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

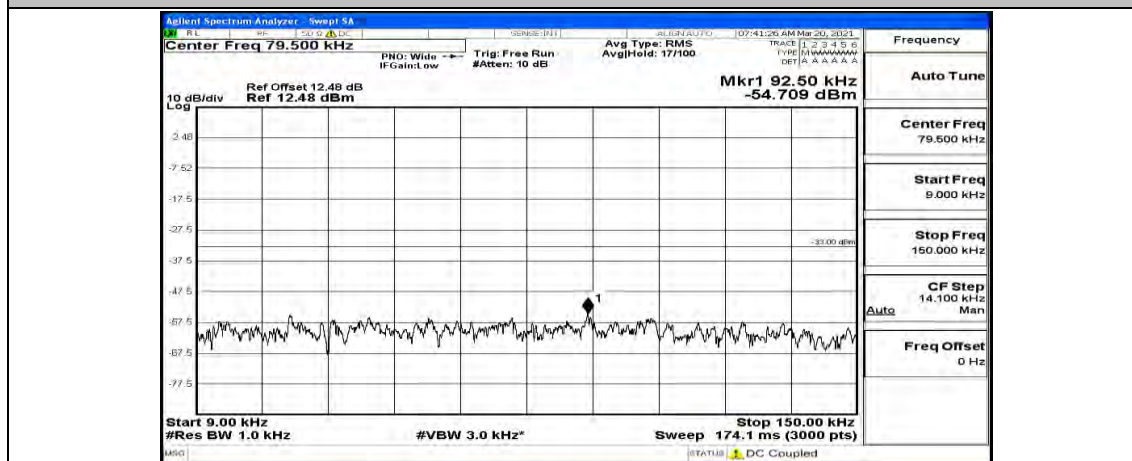


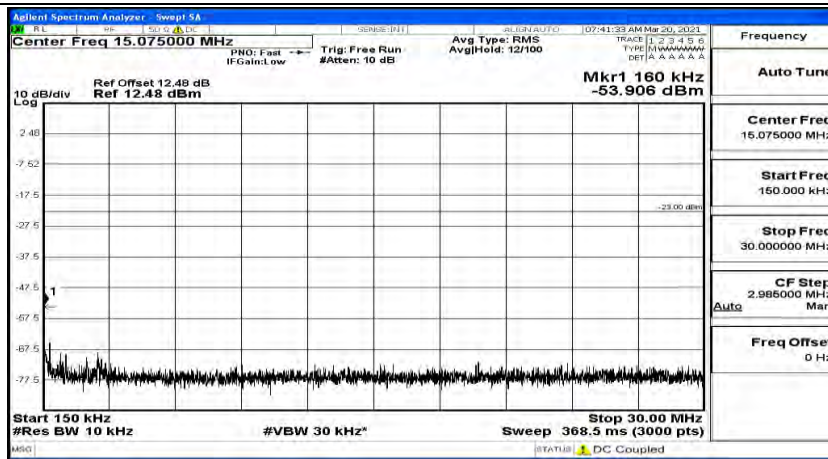
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



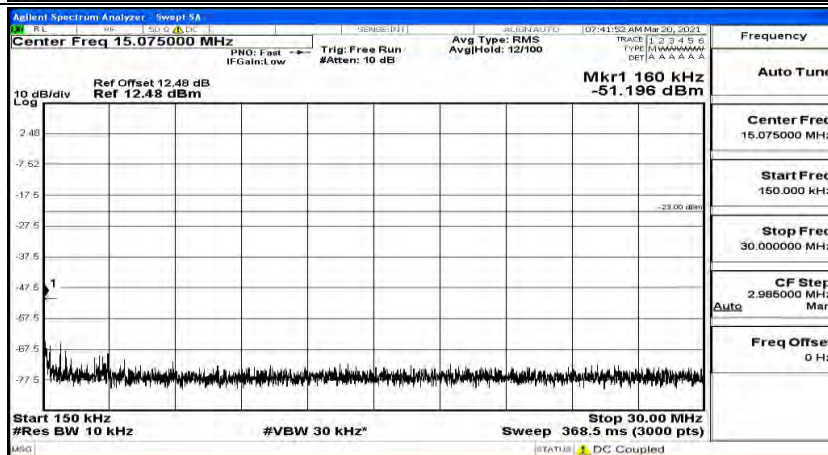
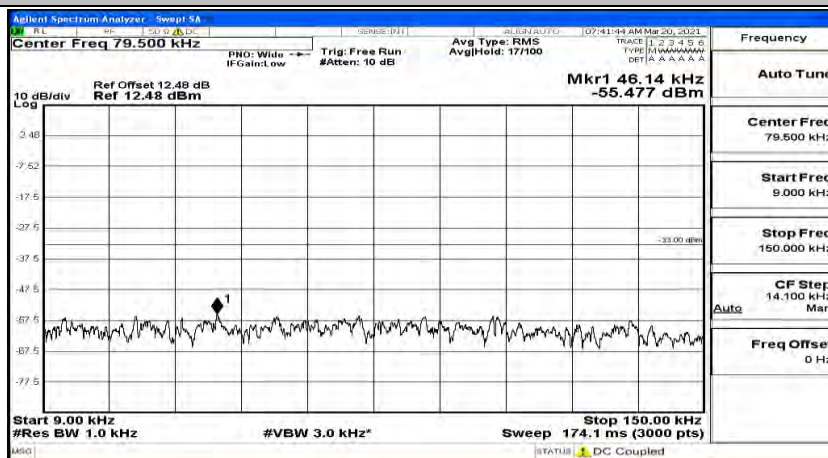


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



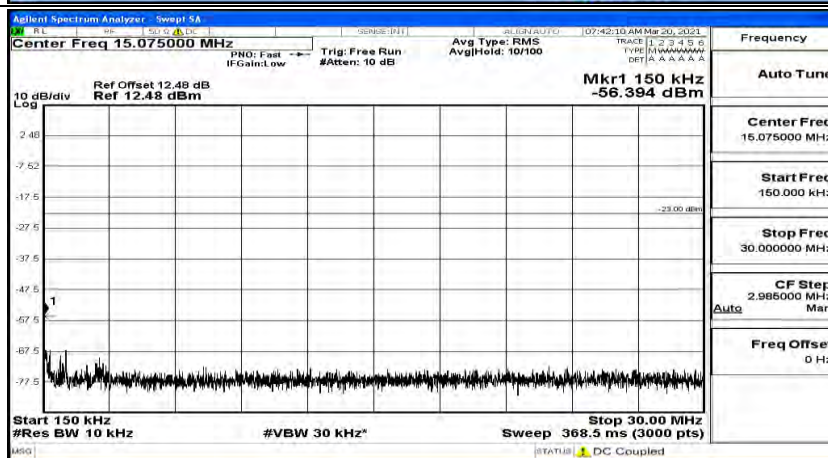
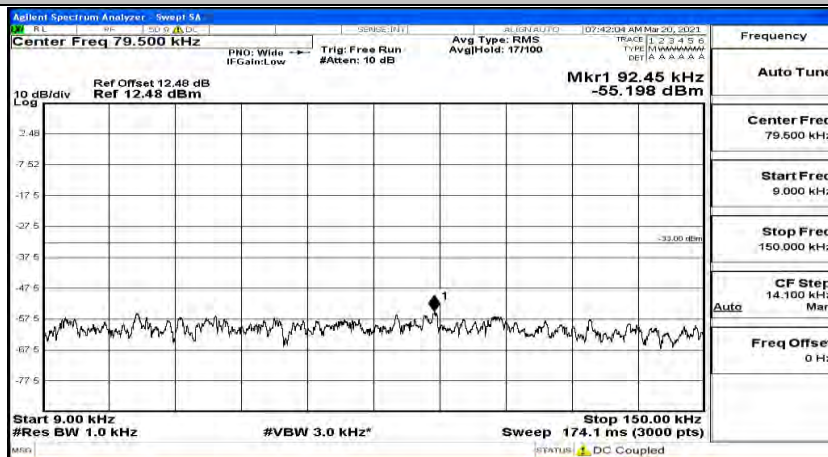


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

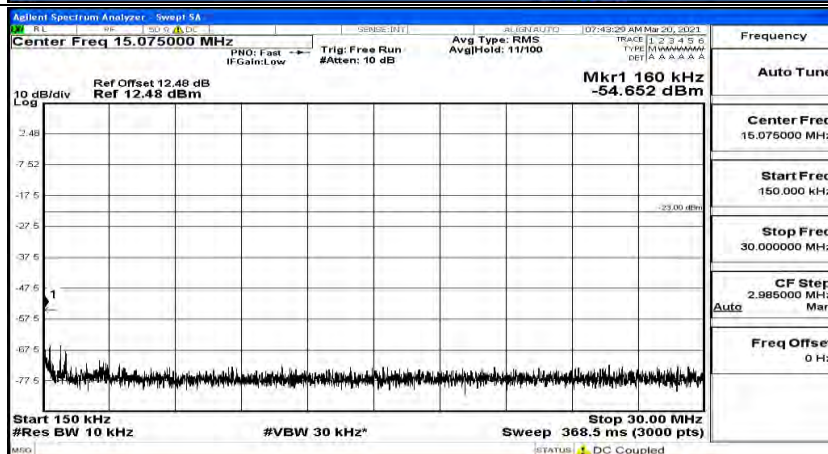
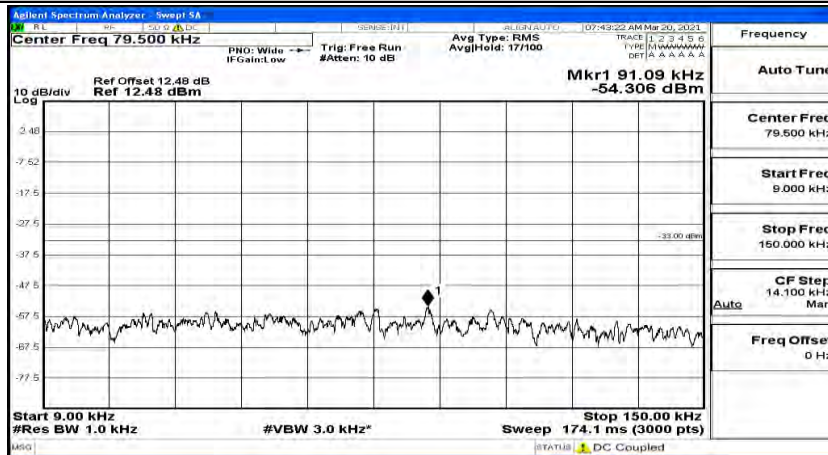




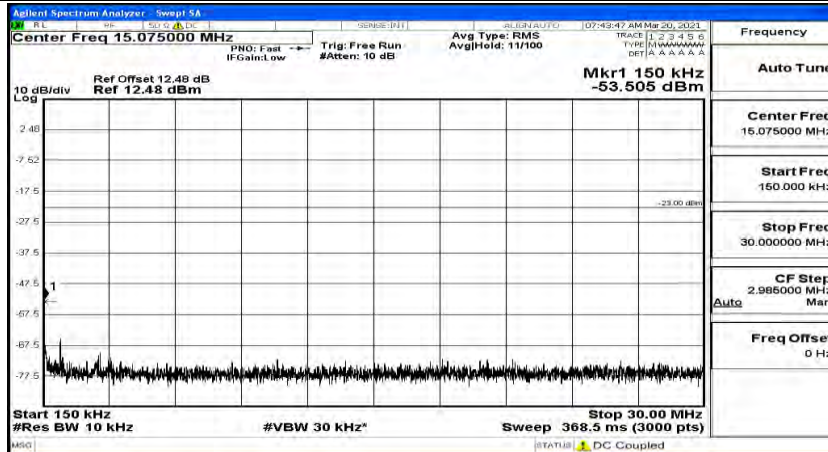
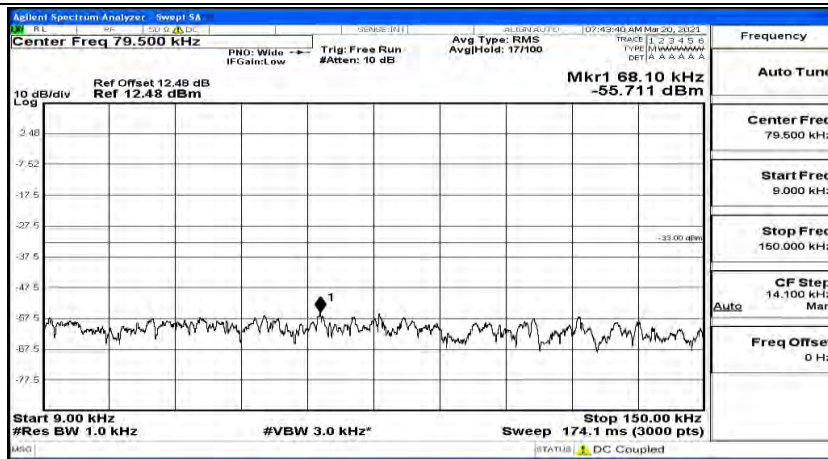
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



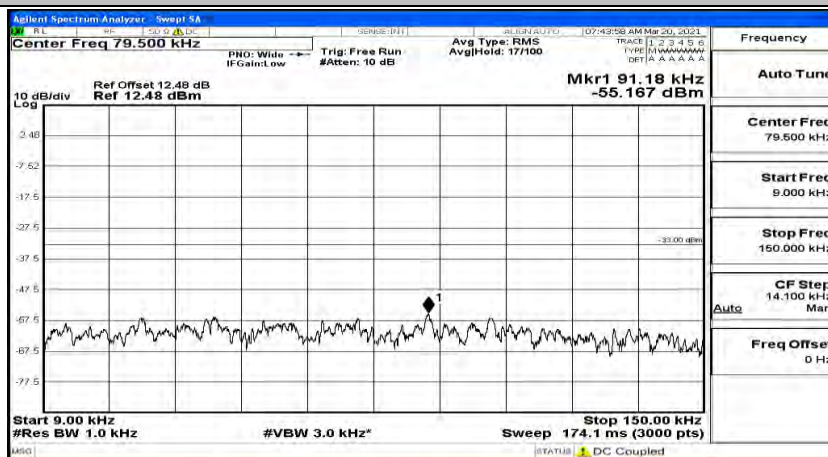
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

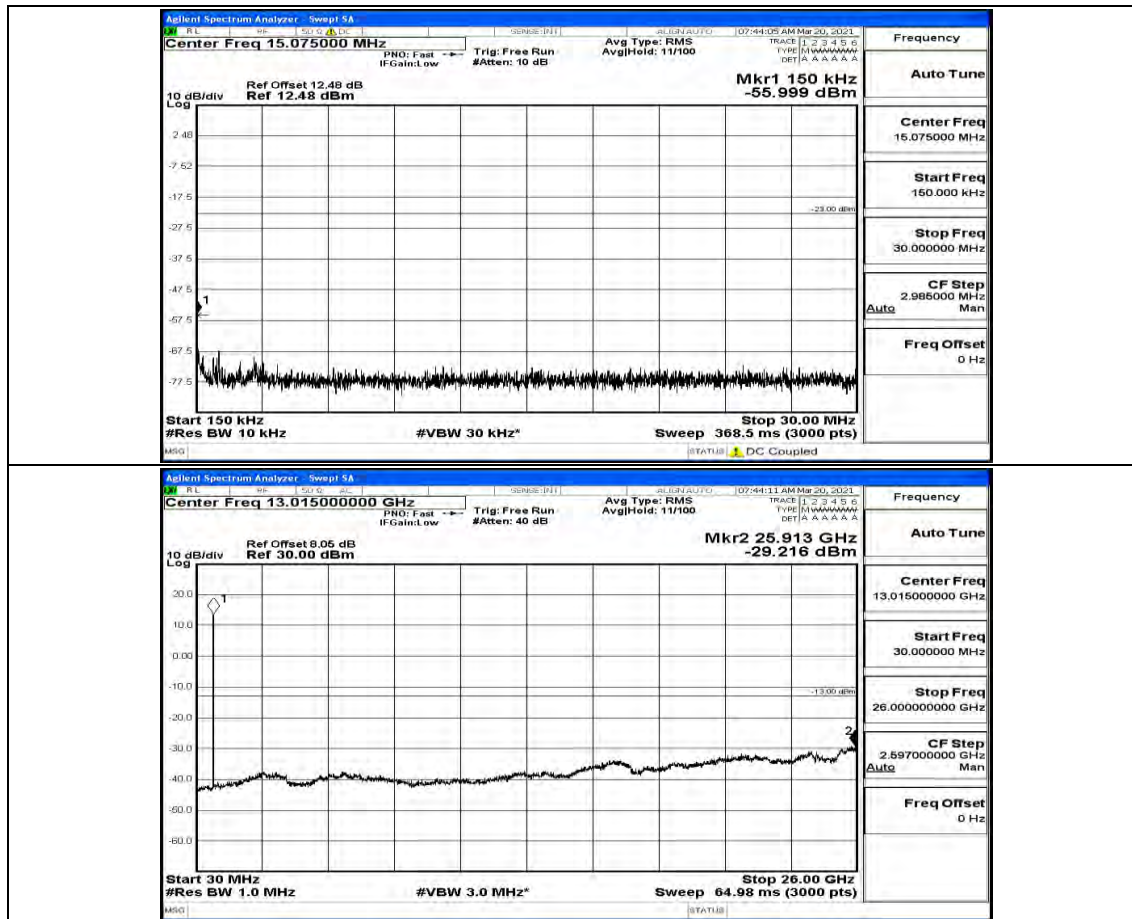


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

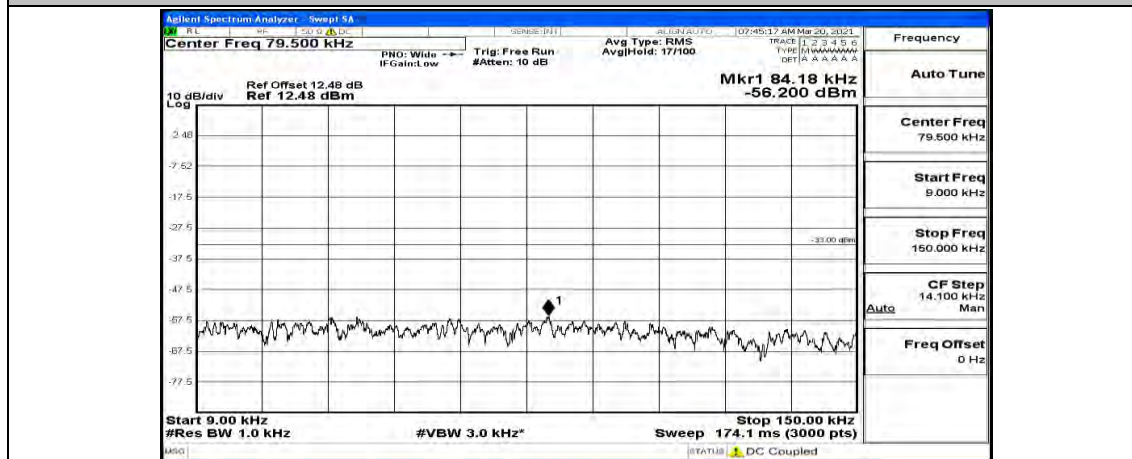


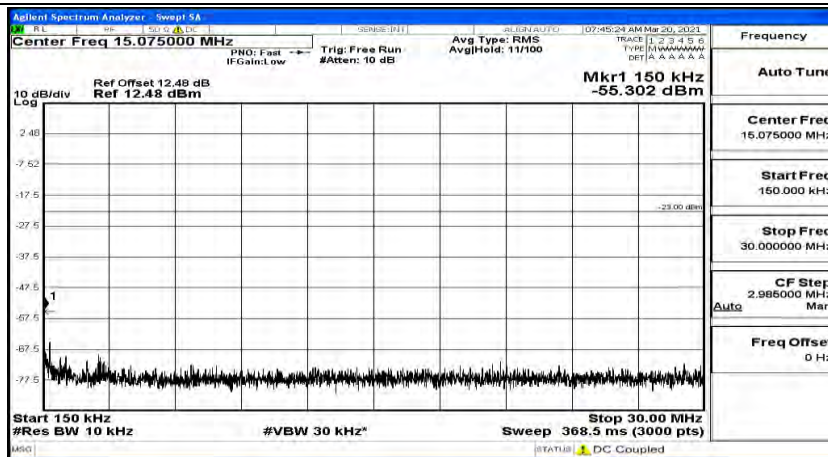
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



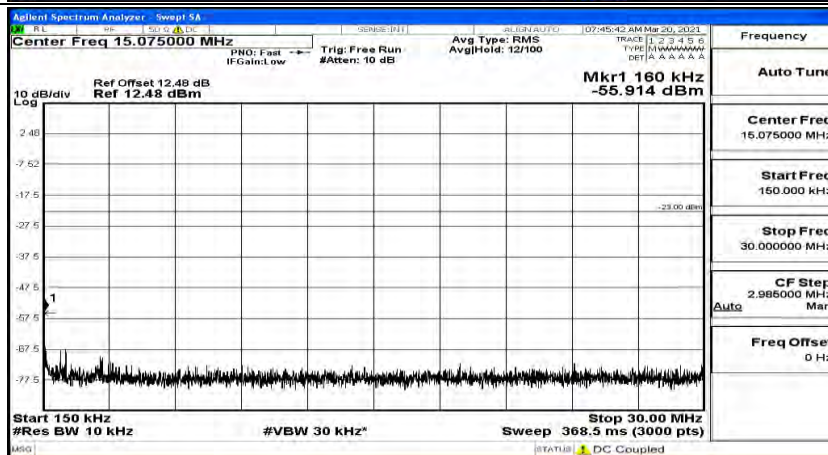
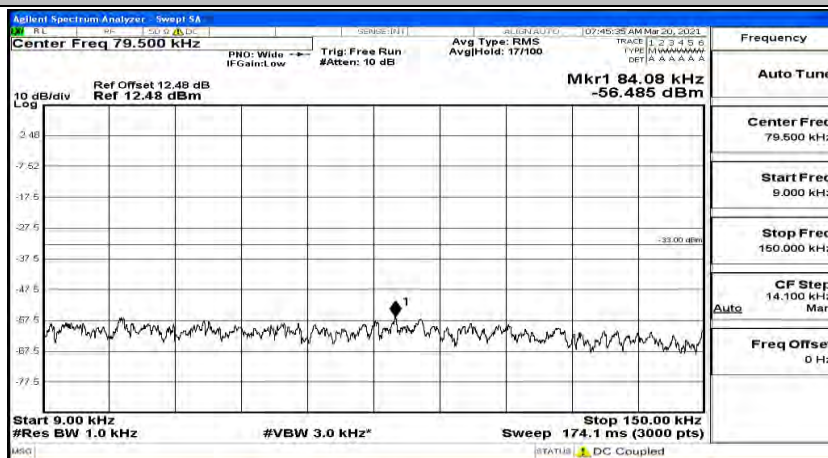


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



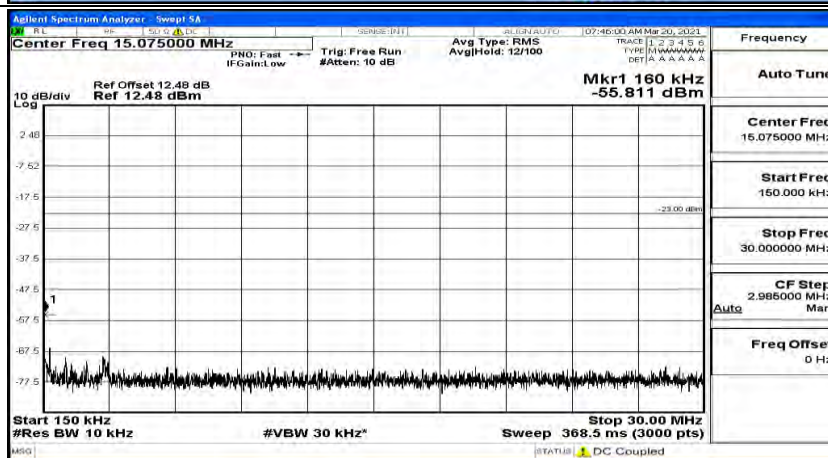
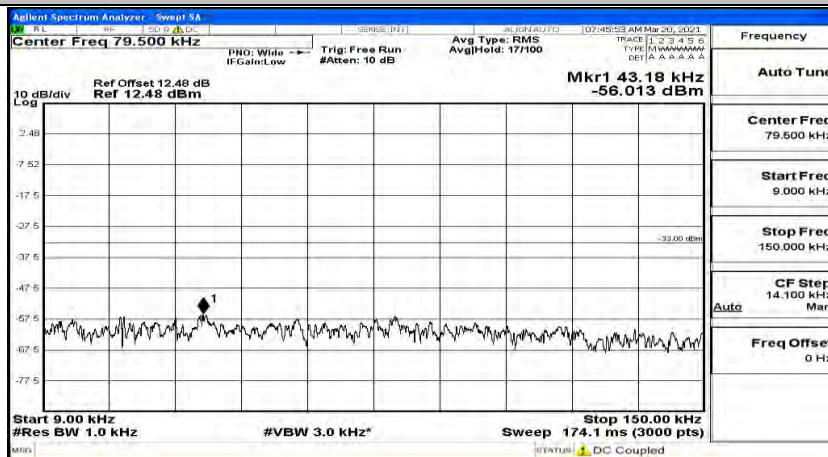


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

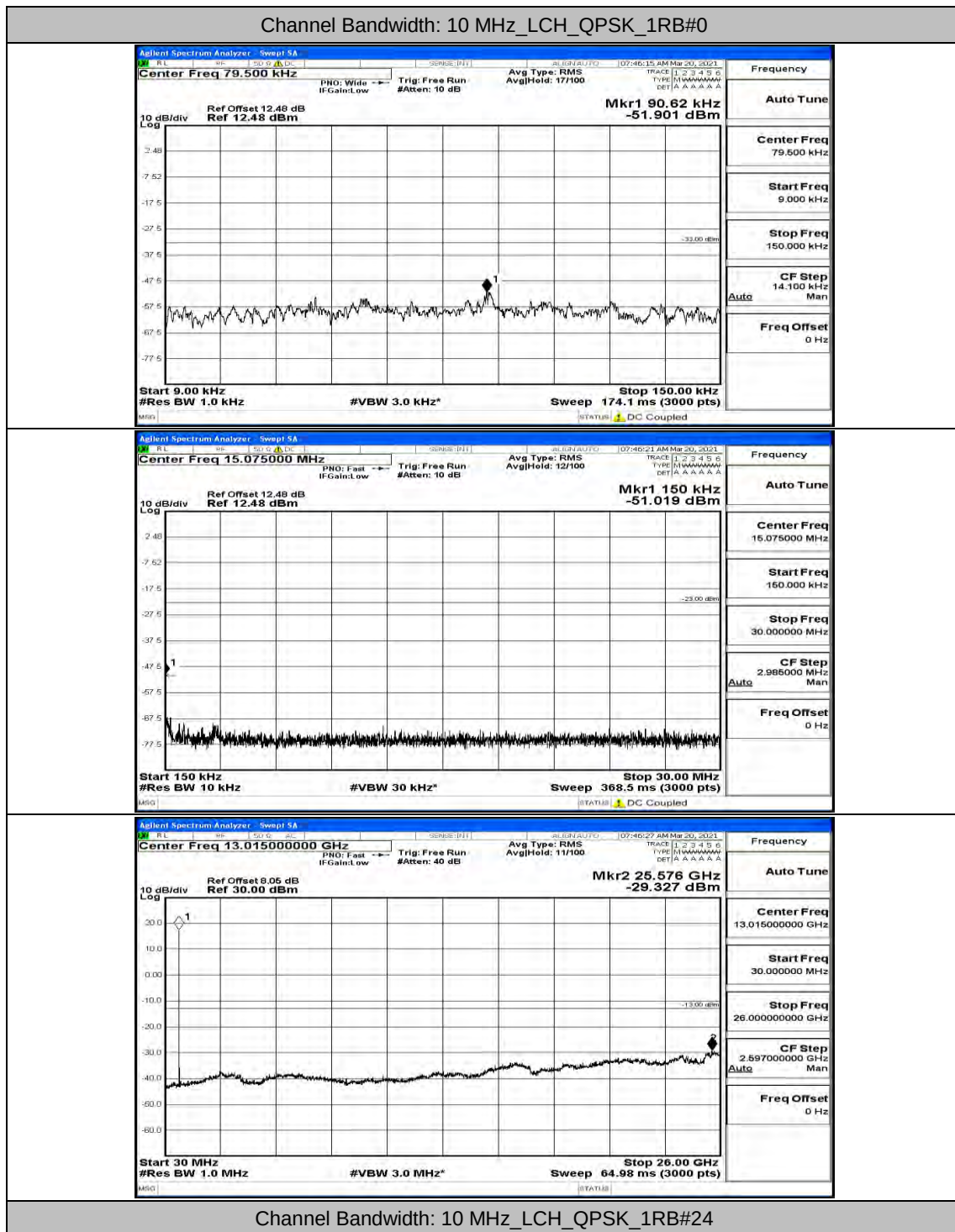


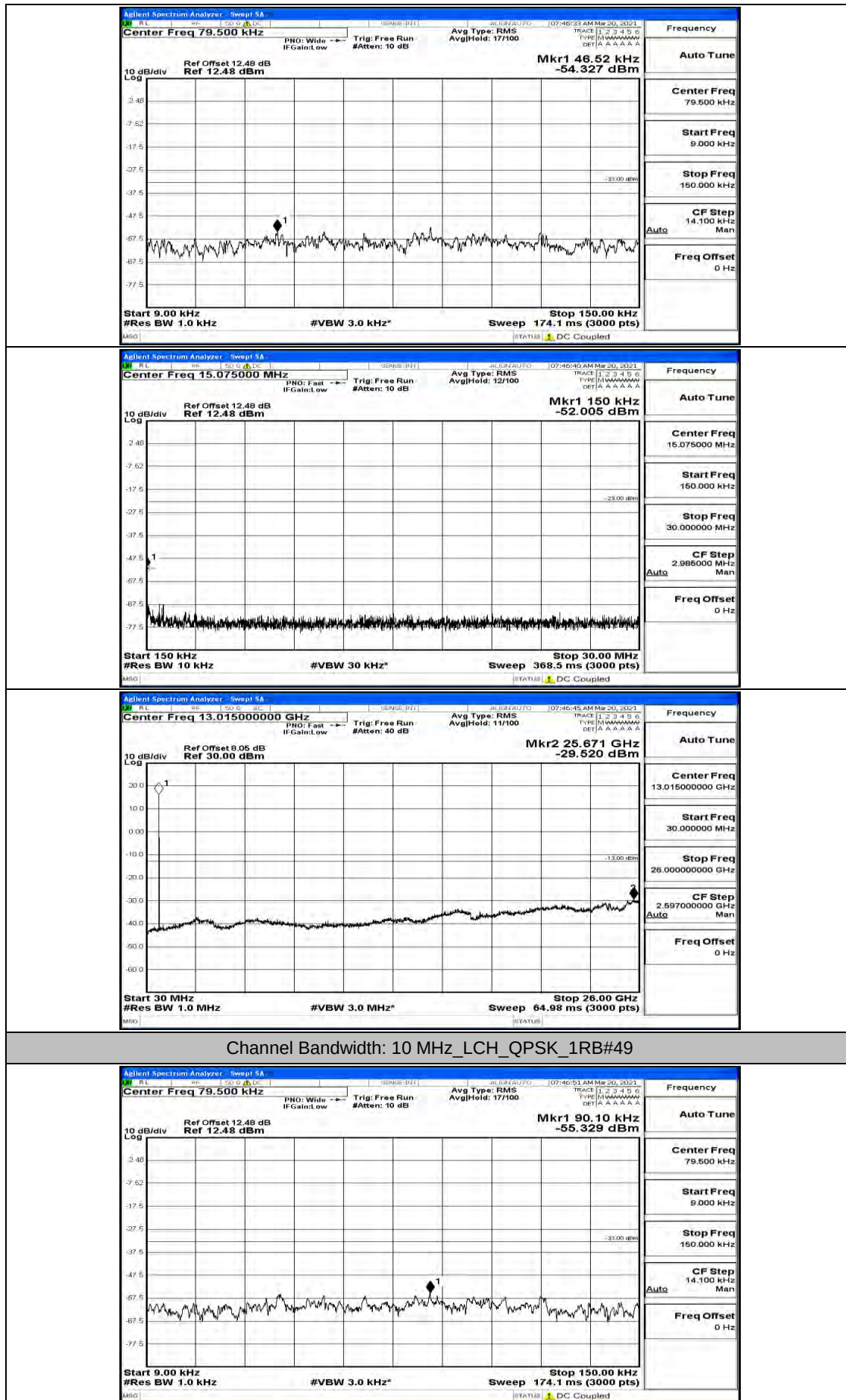


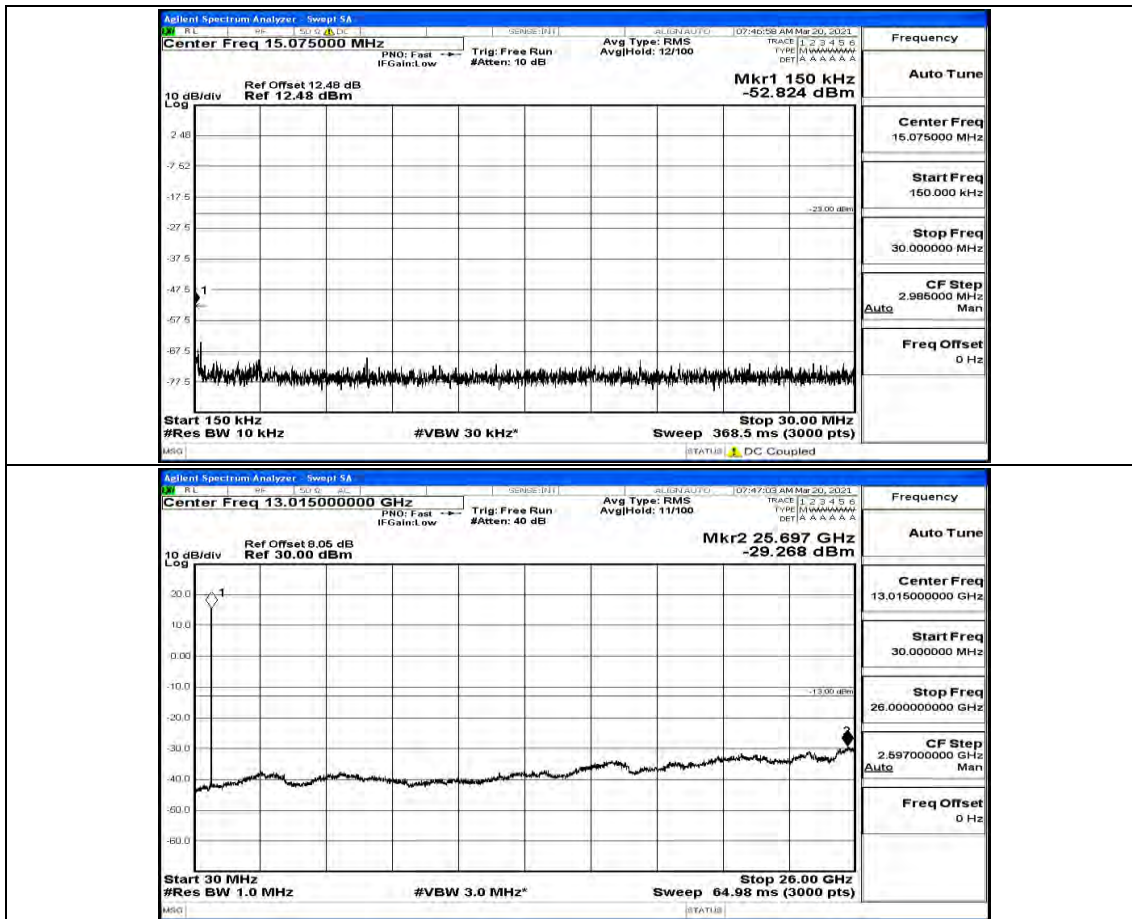
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



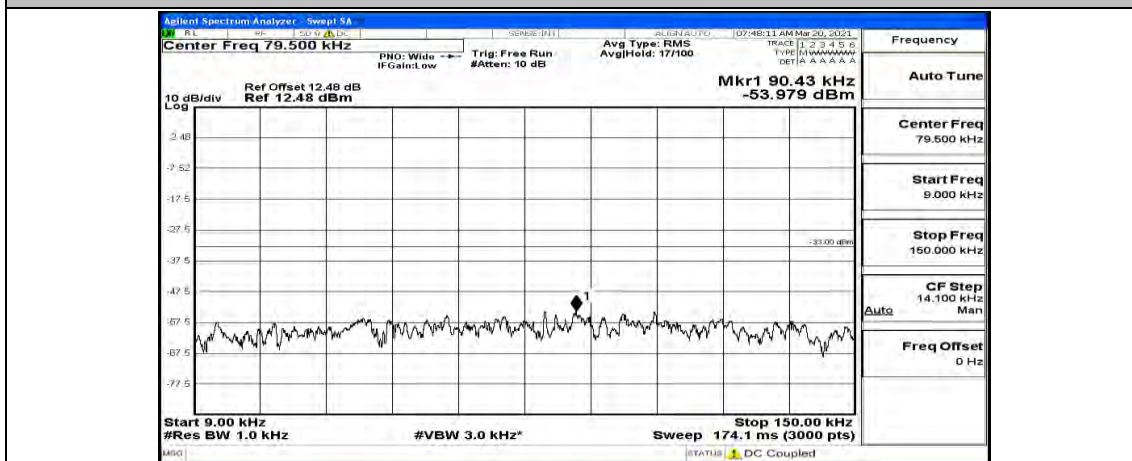
Channel Bandwidth: 10 MHz

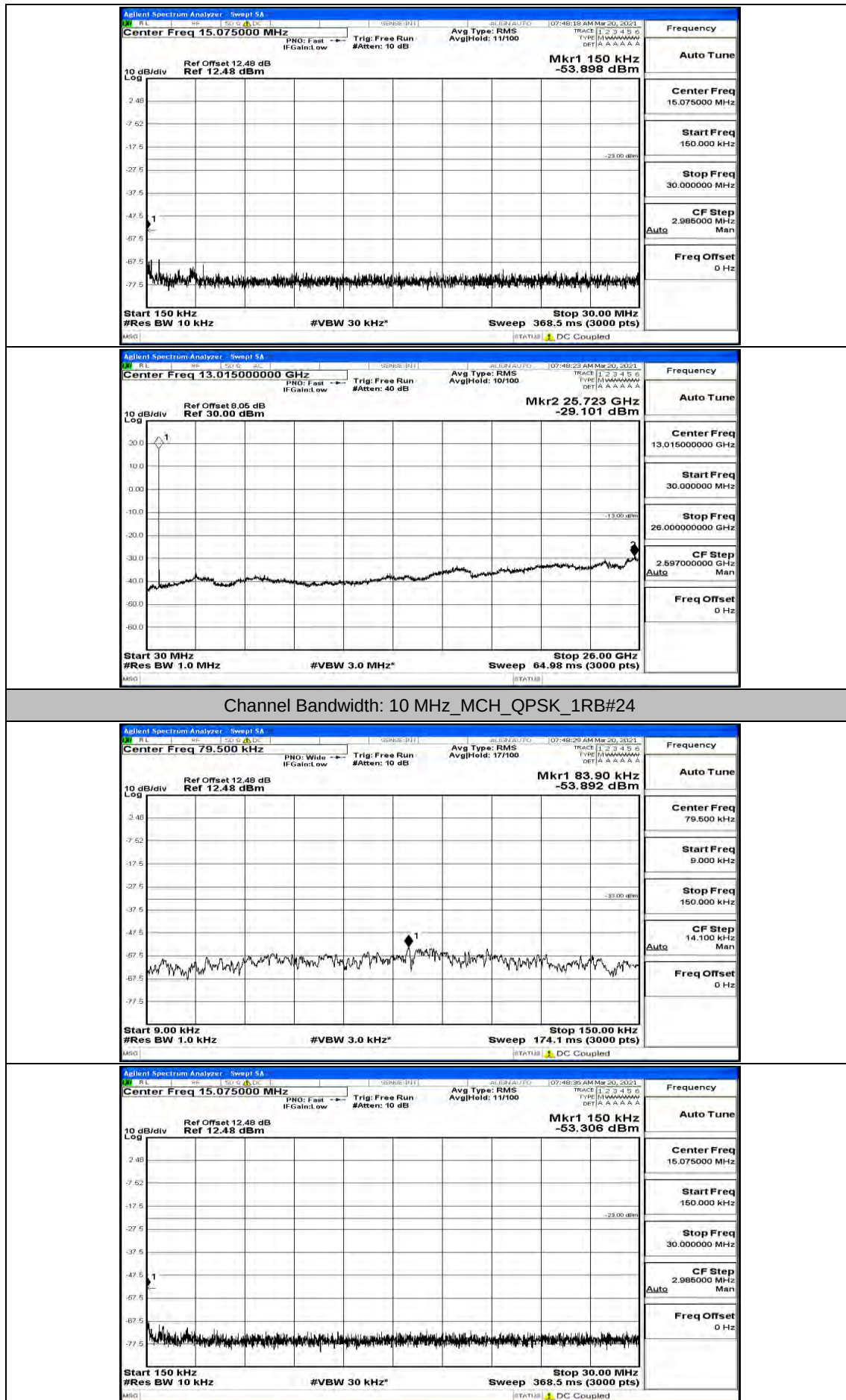


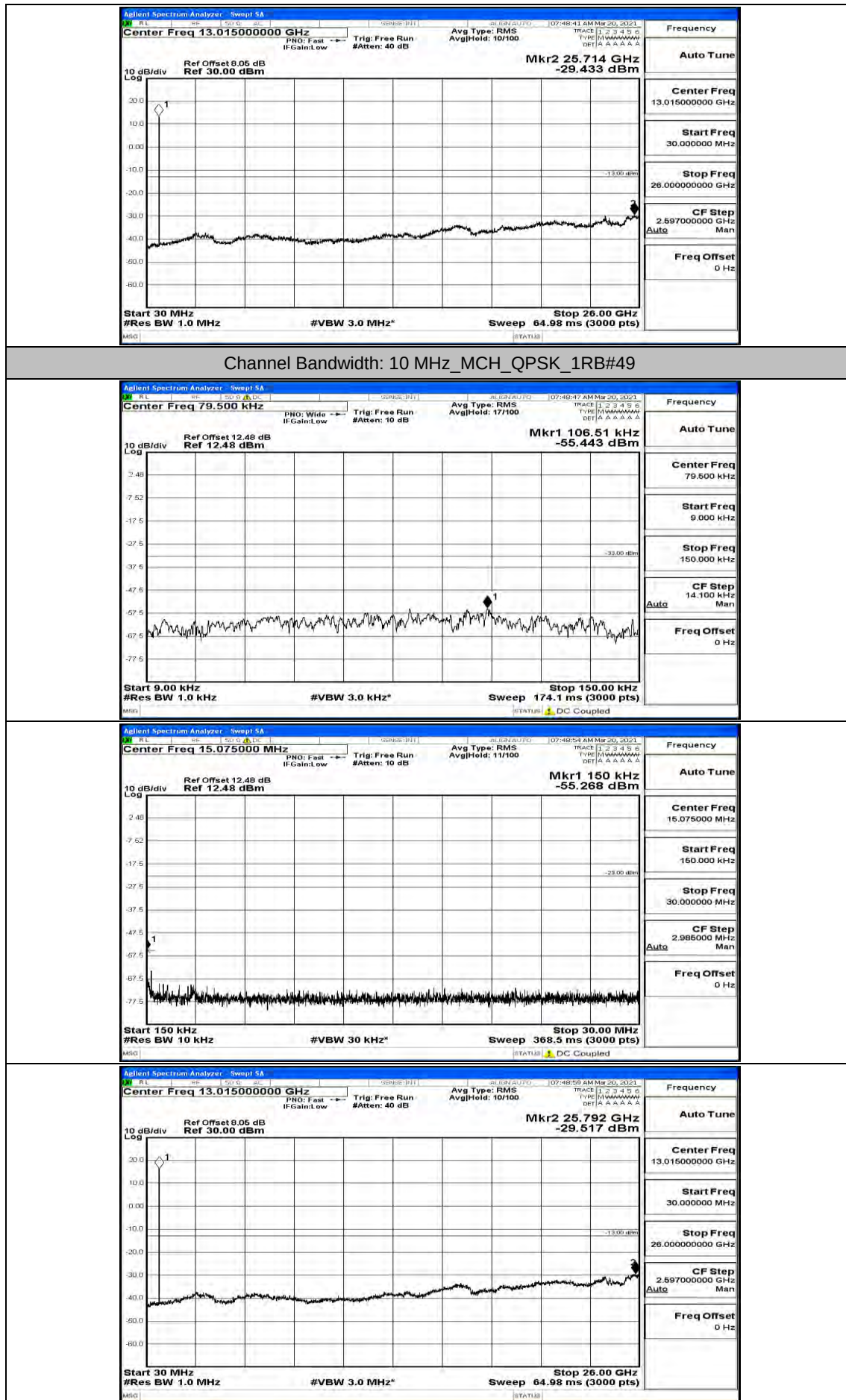




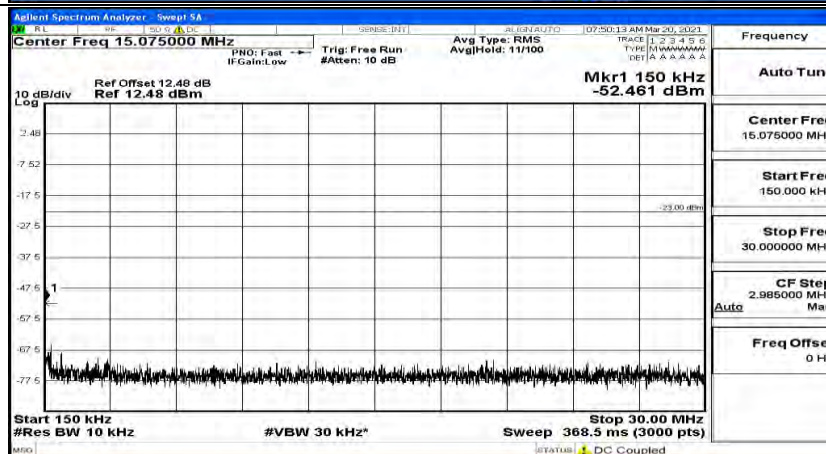
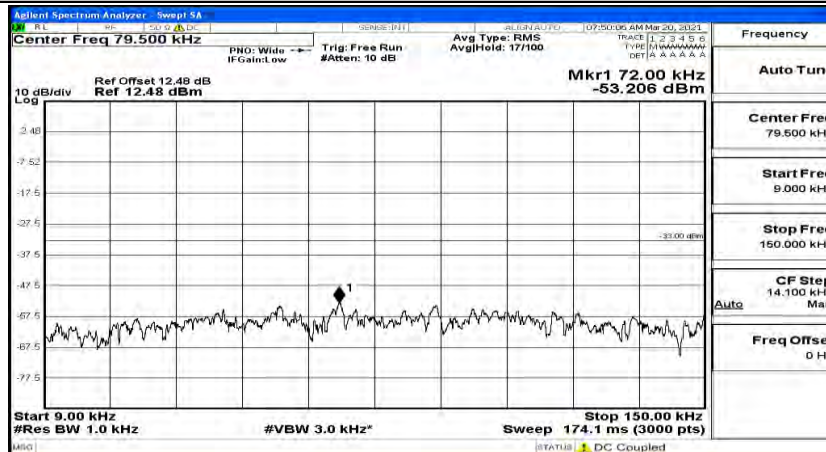
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



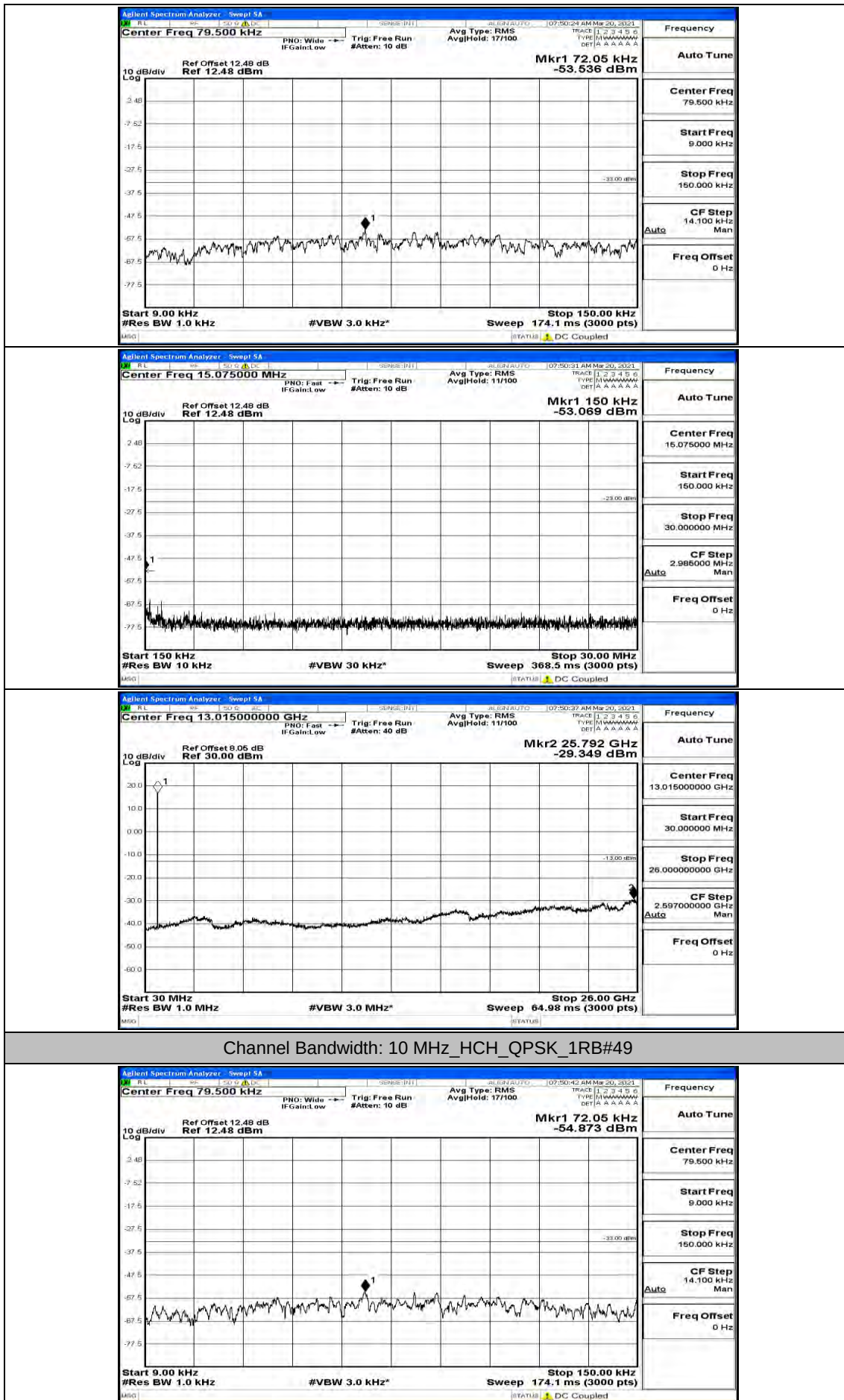


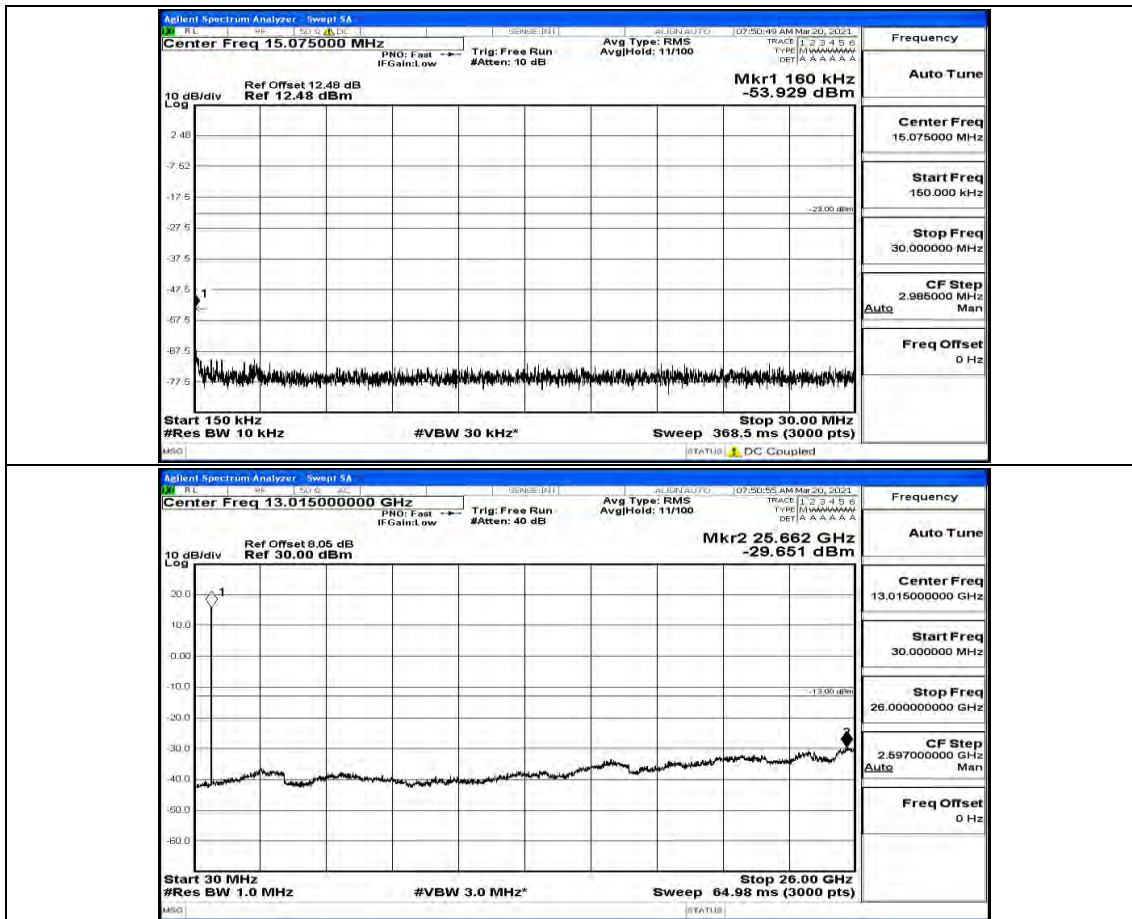


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

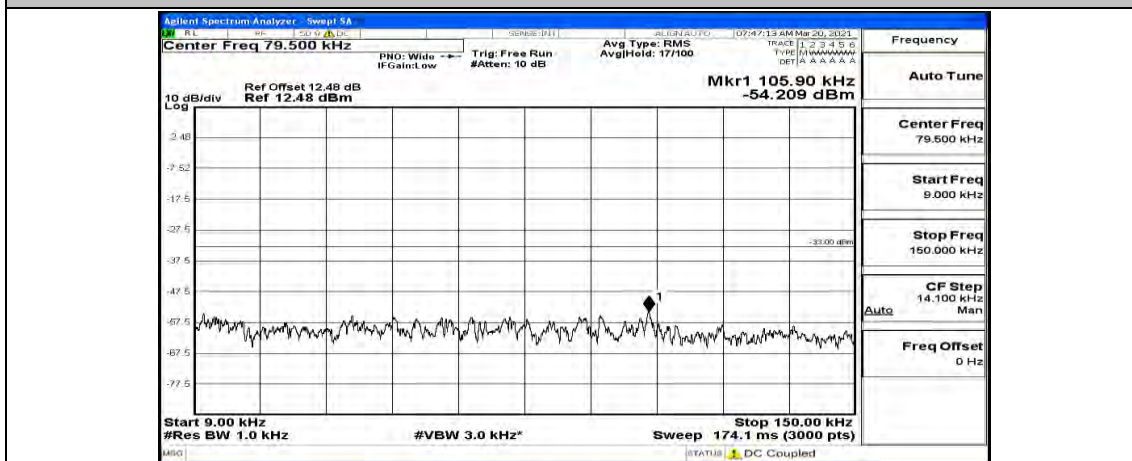


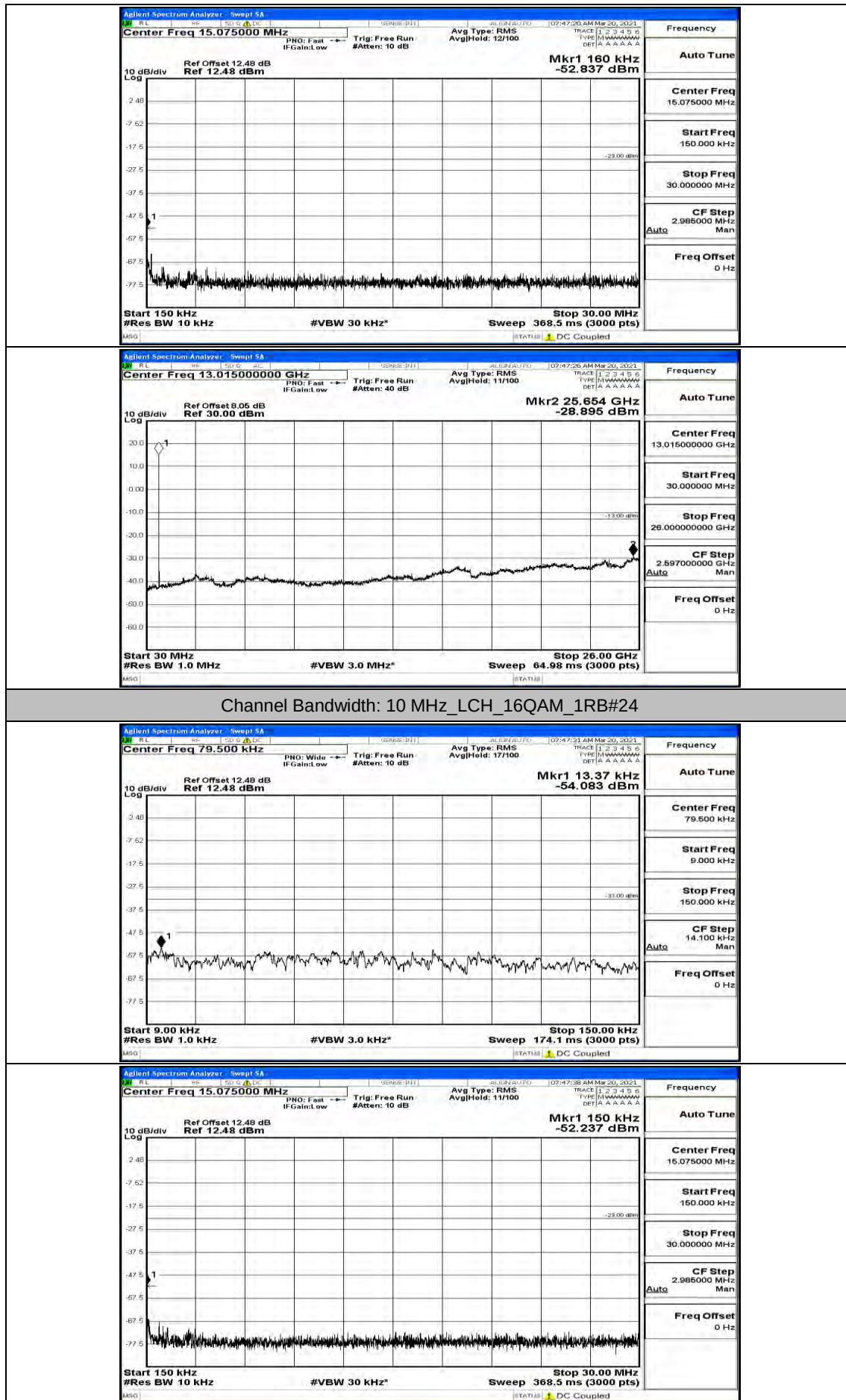
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

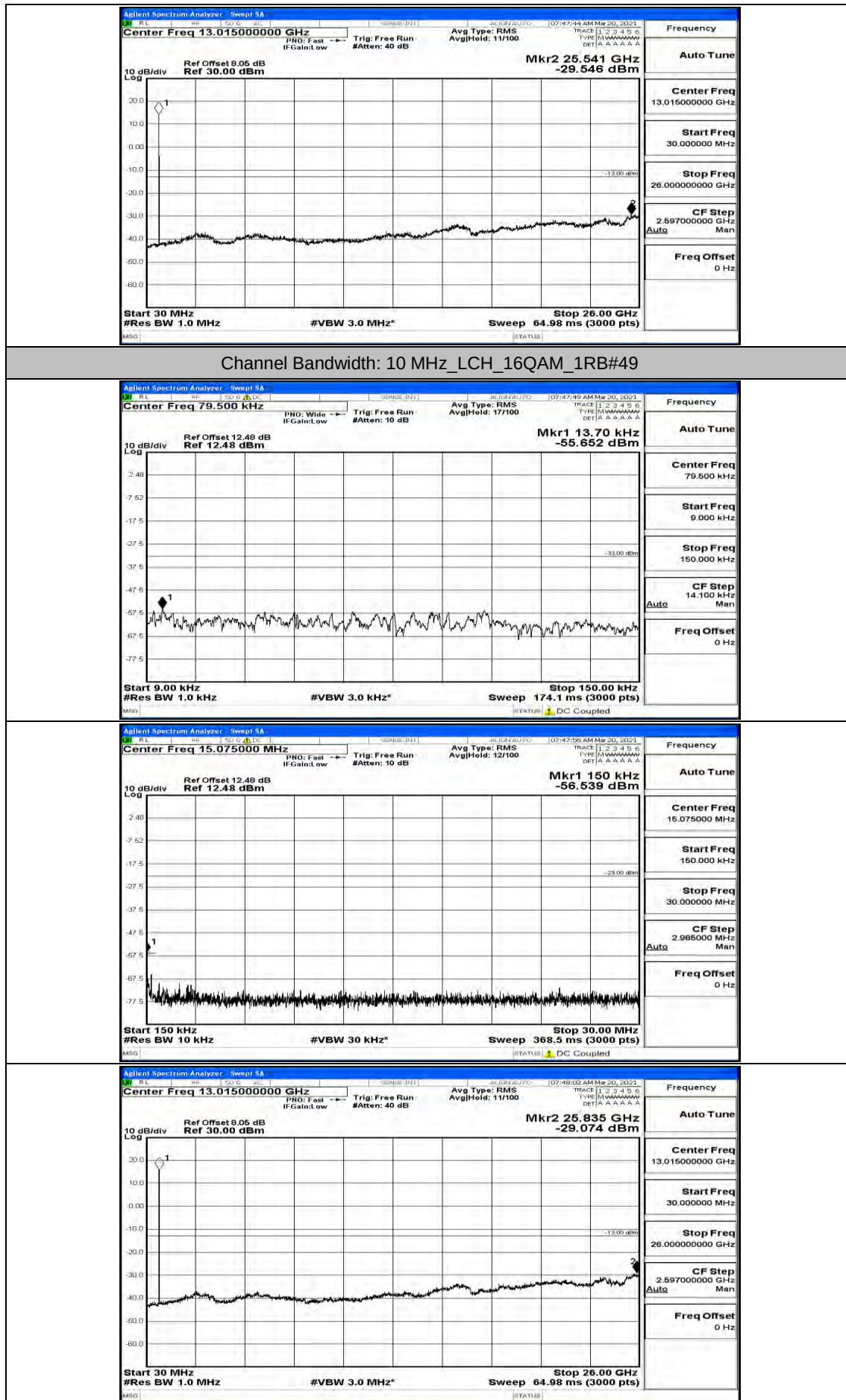




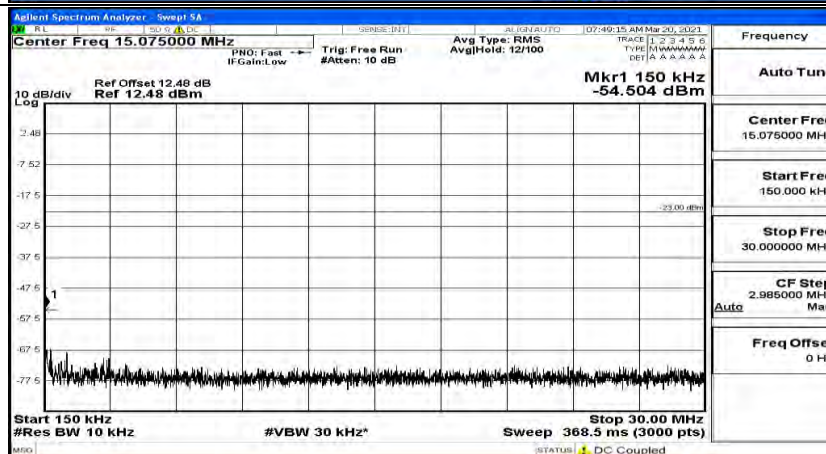
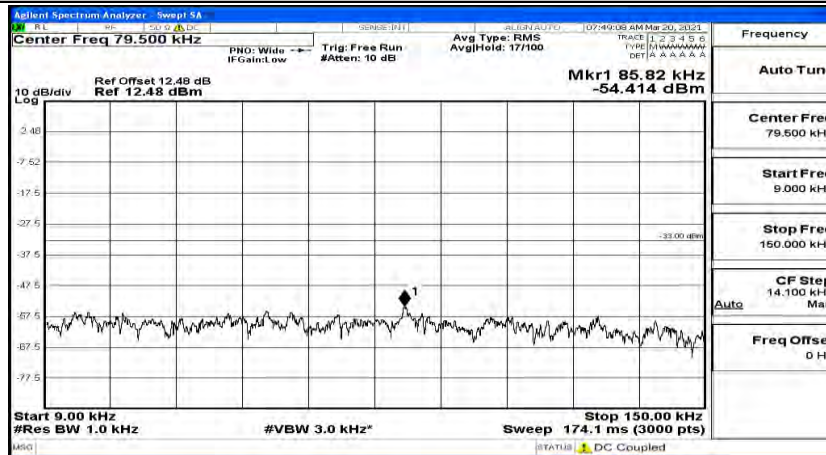
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



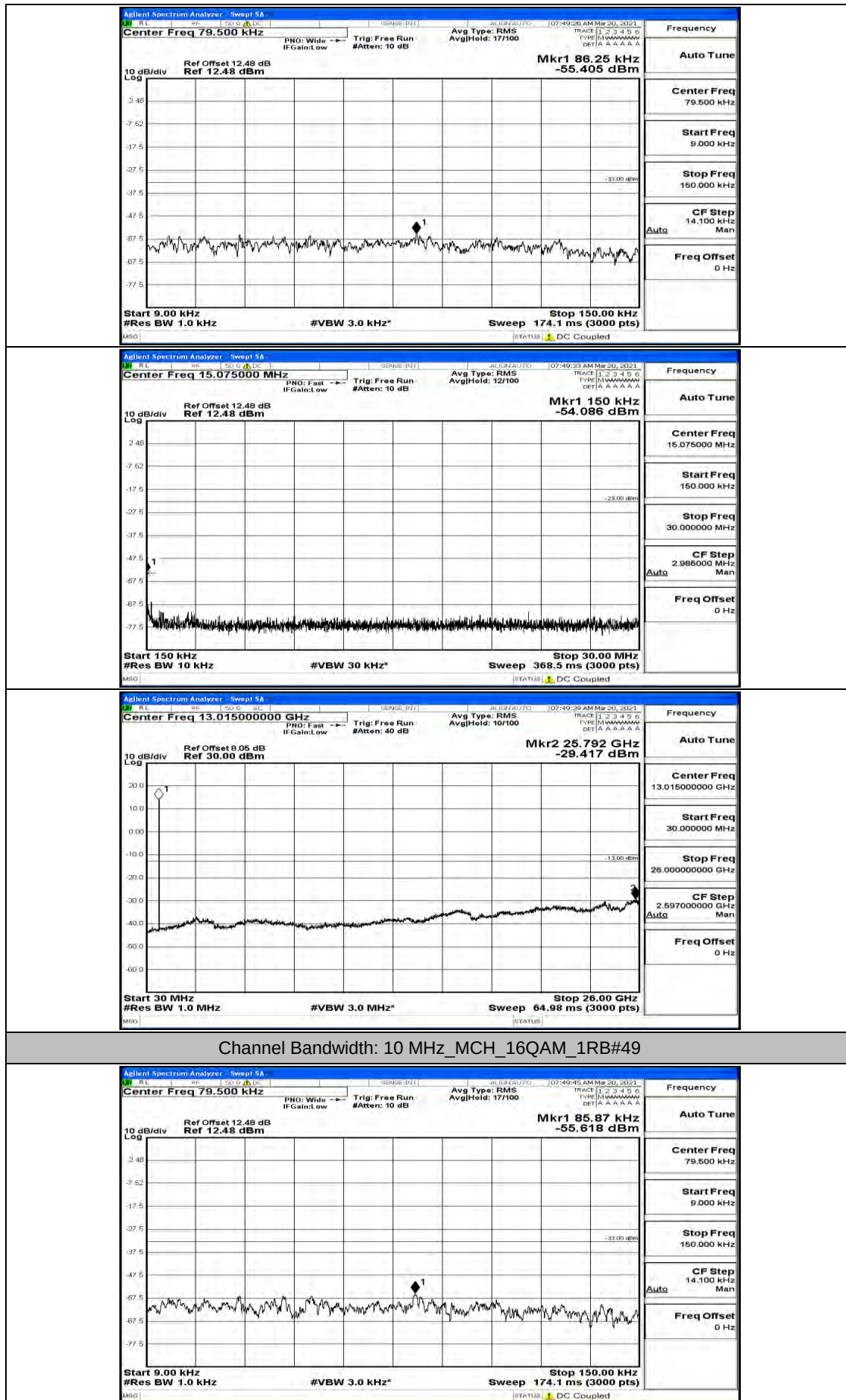


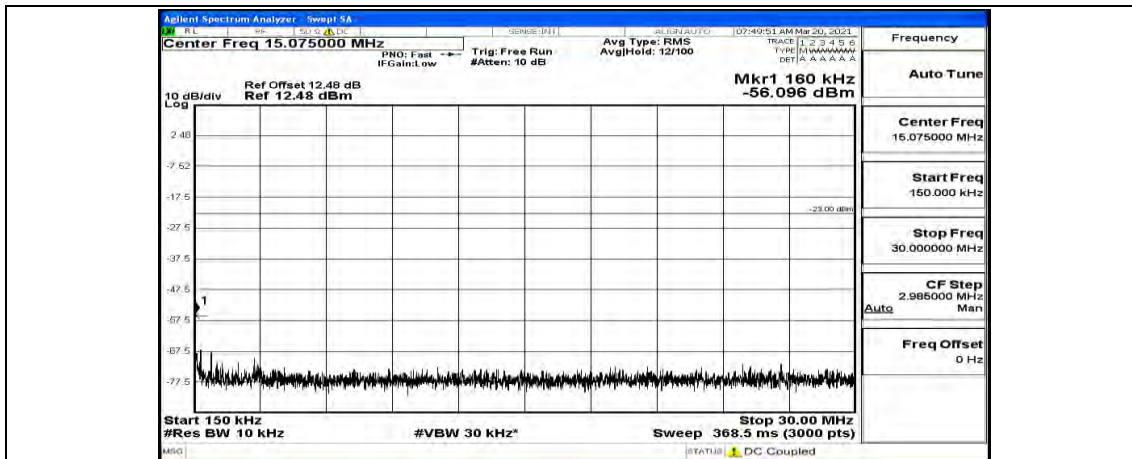


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24





Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

