

Appendix H: Test Data for E-UTRA Band 12

Product Name: Smartphone

Trade Mark: NSPRE

Test Model: NX-20PRO1

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	54.2%
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] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.72	22.07	PASS
		1	3	22.74	22.16	PASS
		1	5	22.59	21.97	PASS
		3	0	22.59	21.61	PASS
		3	2	22.57	21.66	PASS
		3	3	22.48	21.58	PASS
		6	0	22.46	21.44	PASS
	MCH	1	0	23.79	23.02	PASS
		1	3	24.06	23.21	PASS
		1	5	24.27	22.92	PASS
		3	0	24.02	22.74	PASS
		3	2	24.01	22.78	PASS
		3	3	24.12	22.81	PASS
		6	0	23.03	22.38	PASS
	HCH	1	0	24.86	24.11	PASS
		1	3	24.81	24.14	PASS
		1	5	24.59	23.89	PASS
		3	0	24.76	23.98	PASS
		3	2	24.80	23.98	PASS
		3	3	24.66	23.87	PASS
		6	0	23.85	22.92	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	22.41	21.73	PASS
		1	7	22.26	21.70	PASS
		1	14	21.92	21.27	PASS
		8	0	22.37	21.44	PASS
		8	4	22.23	21.34	PASS
		8	7	22.05	21.11	PASS
		15	0	22.18	21.20	PASS
	MCH	1	0	23.56	22.66	PASS
		1	7	24.26	23.26	PASS
		1	14	24.17	23.24	PASS
		8	0	23.12	22.40	PASS
		8	4	23.20	22.48	PASS
		8	7	23.10	22.49	PASS
		15	0	23.03	22.04	PASS
	HCH	1	0	24.63	24.09	PASS
		1	7	24.83	24.24	PASS
		1	14	24.64	23.97	PASS
		8	0	23.90	22.85	PASS
		8	4	23.89	22.86	PASS
		8	7	23.79	22.87	PASS
		15	0	23.84	22.76	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	22.53	21.70	PASS
		1	12	22.35	21.56	PASS
		1	24	22.20	21.44	PASS
		12	0	22.27	21.33	PASS
		12	6	22.07	21.17	PASS
		12	13	21.90	20.99	PASS
		25	0	22.04	21.10	PASS
	MCH	1	0	23.01	22.20	PASS
		1	12	24.25	23.47	PASS
		1	24	23.89	22.93	PASS
		12	0	22.95	21.87	PASS
		12	6	23.18	22.30	PASS
		12	13	23.14	22.09	PASS
		25	0	23.01	22.26	PASS
	HCH	1	0	23.80	22.69	PASS
		1	12	24.91	23.28	PASS
		1	24	24.49	23.14	PASS
		12	0	23.55	22.45	PASS
		12	6	23.76	22.60	PASS
		12	13	23.79	22.69	PASS
		25	0	23.62	22.69	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	21.67	20.95	PASS
		1	24	22.40	21.71	PASS
		1	49	23.34	22.72	PASS
		25	0	21.80	20.80	PASS
		25	12	22.46	21.44	PASS
		25	25	23.23	22.25	PASS
		50	0	22.50	21.54	PASS
	MCH	1	0	21.34	20.60	PASS
		1	24	24.32	23.61	PASS
		1	49	23.36	22.66	PASS
		25	0	22.95	21.91	PASS
		25	12	23.13	22.23	PASS
		25	25	23.20	22.24	PASS
		50	0	23.13	22.05	PASS
	HCH	1	0	22.96	22.10	PASS
		1	24	23.76	23.16	PASS
		1	49	23.87	23.25	PASS
		25	0	23.26	22.28	PASS
		25	12	23.48	22.46	PASS
		25	25	23.64	22.61	PASS
		50	0	23.47	22.50	PASS

H.2 Peak-to-Average Ratio

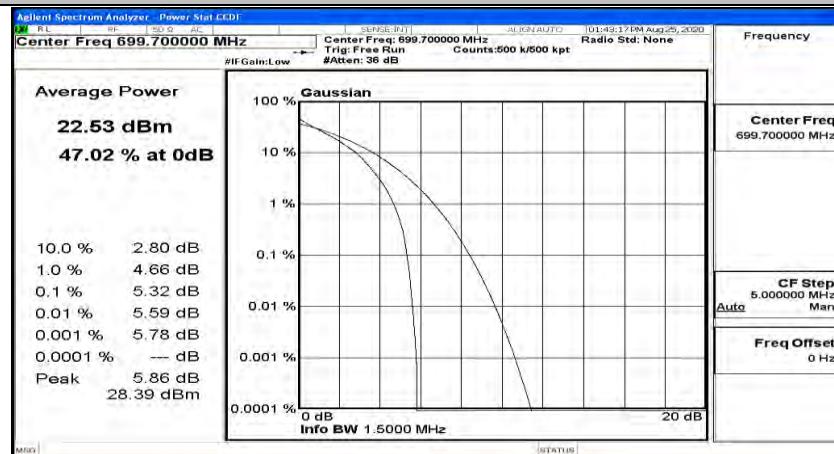
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.32	<13	PASS
	MCH	5.37	<13	PASS
	HCH	4.59	<13	PASS
16QAM	LCH	6.07	<13	PASS
	MCH	6.27	<13	PASS
	HCH	5.41	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	6.11	<13	PASS
	MCH	5.38	<13	PASS
	HCH	4.85	<13	PASS
16QAM	LCH	6.43	<13	PASS
	MCH	6.31	<13	PASS
	HCH	5.75	<13	PASS

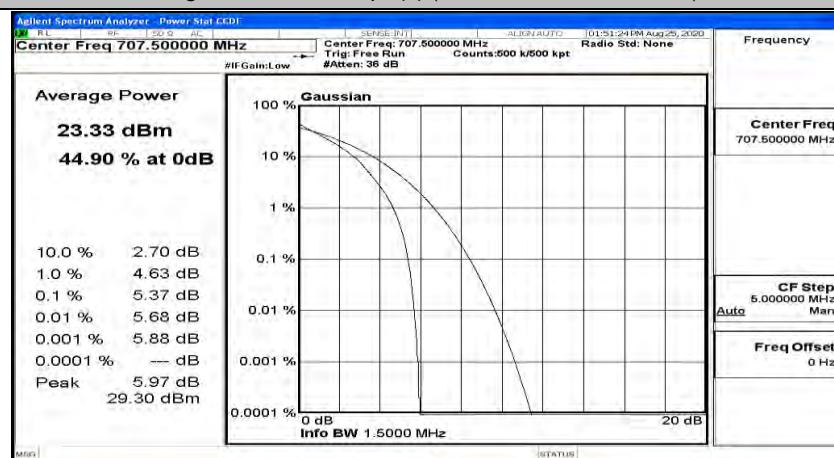
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.65	<13	PASS
	MCH	5.31	<13	PASS
	HCH	5.04	<13	PASS
16QAM	LCH	6.44	<13	PASS
	MCH	6.19	<13	PASS
	HCH	5.83	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	6.02	<13	PASS
	MCH	5.22	<13	PASS
	HCH	5.31	<13	PASS
16QAM	LCH	6.61	<13	PASS
	MCH	6.28	<13	PASS
	HCH	6.14	<13	PASS

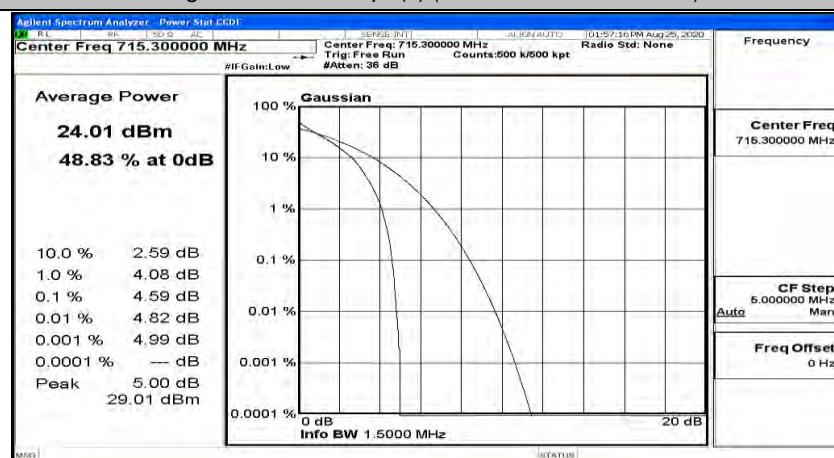
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



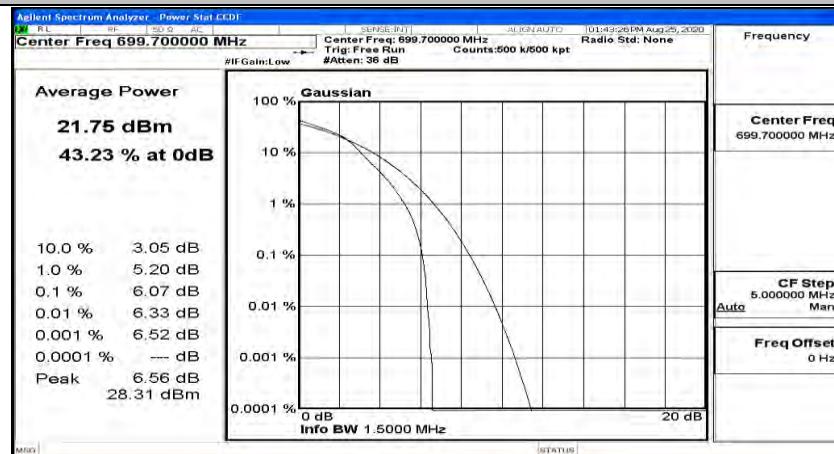
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



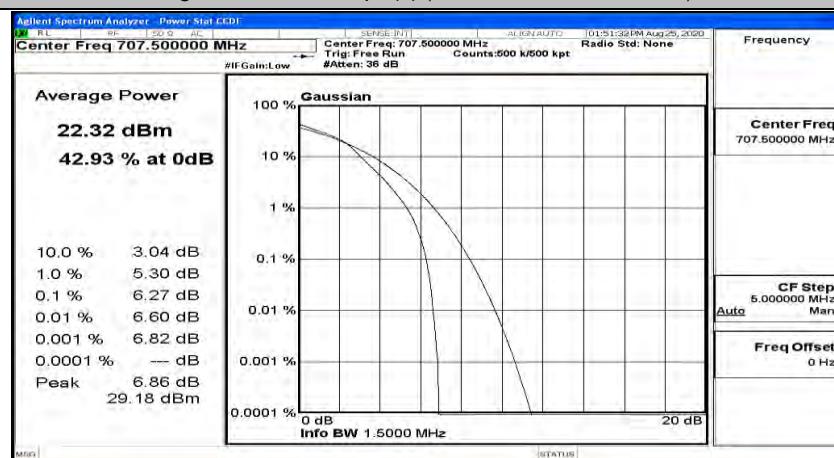
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



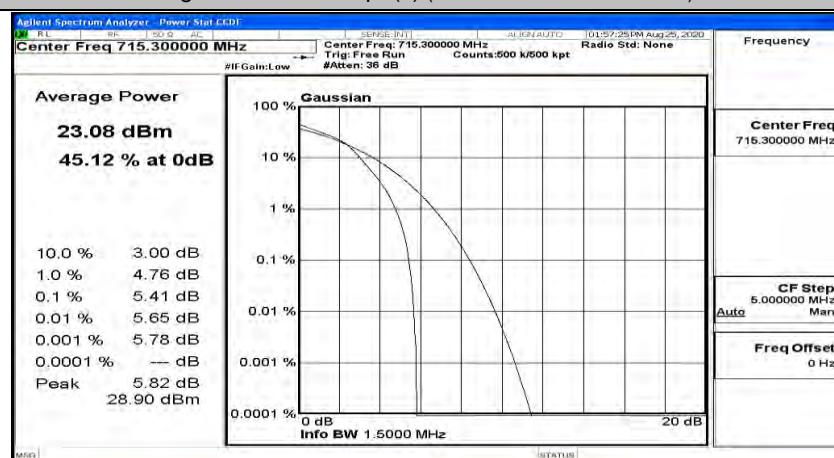
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



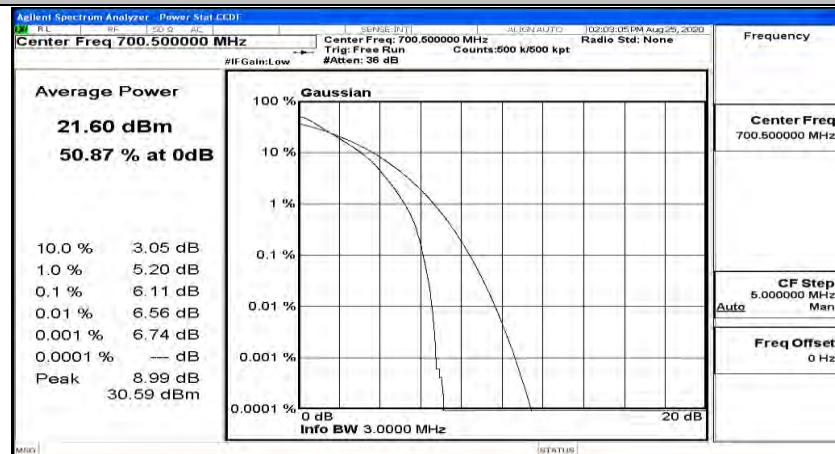
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



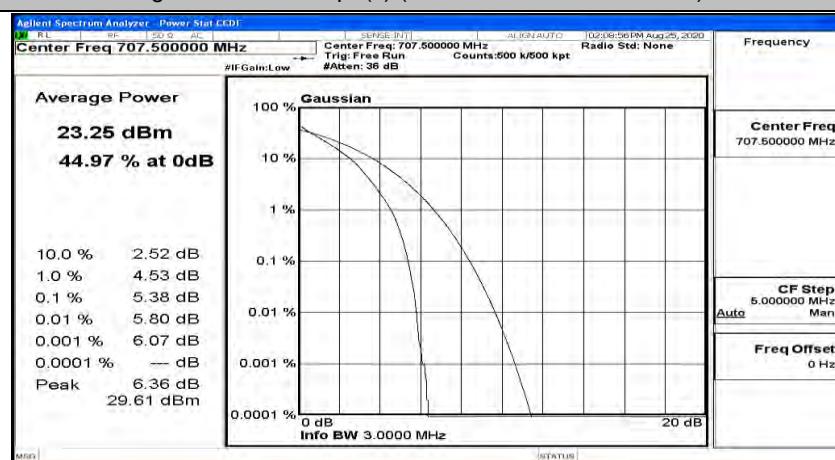
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



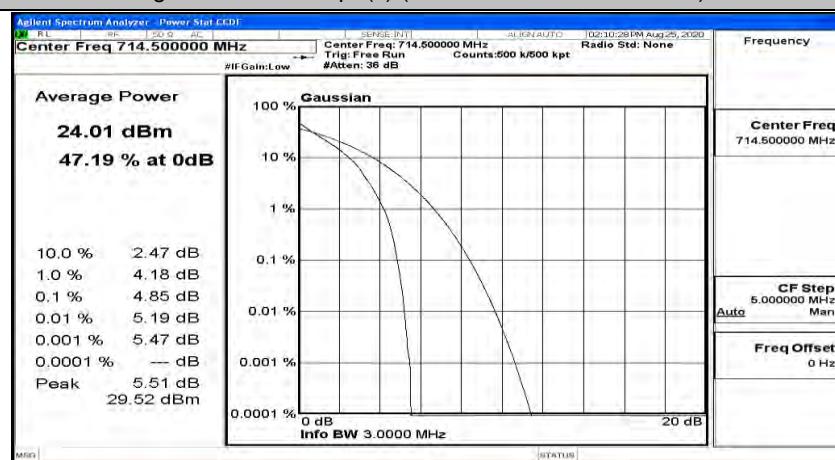
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



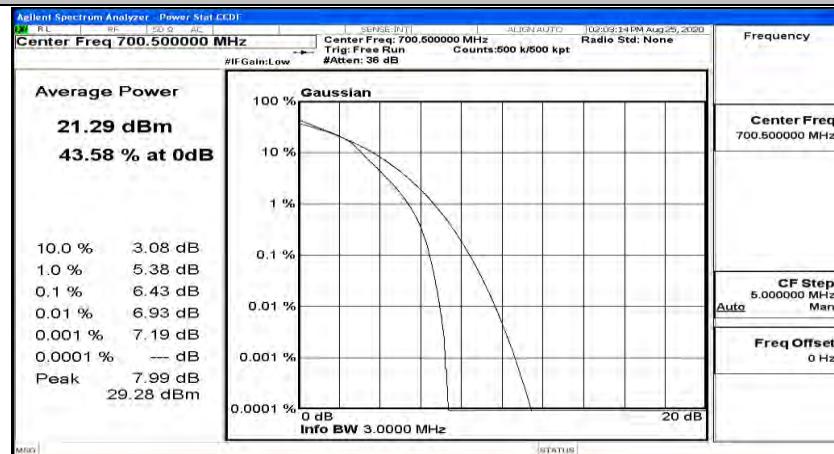
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



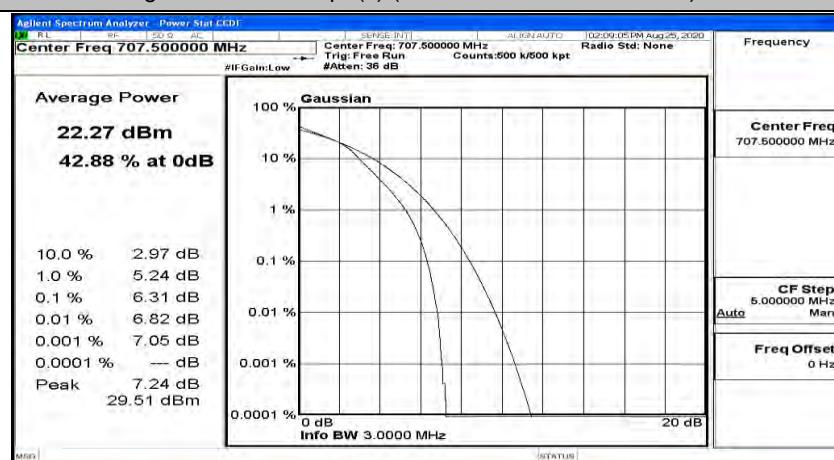
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



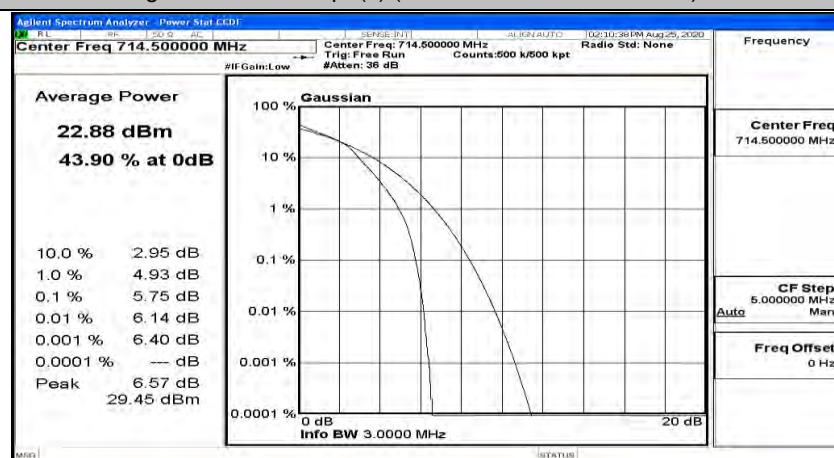
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



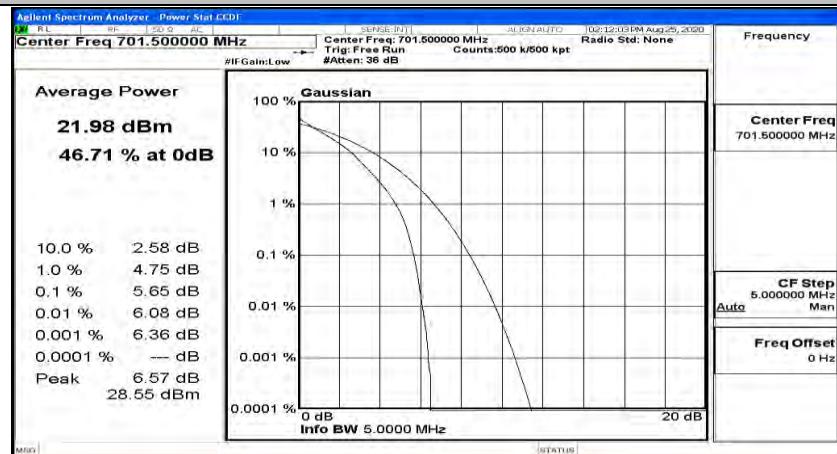
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



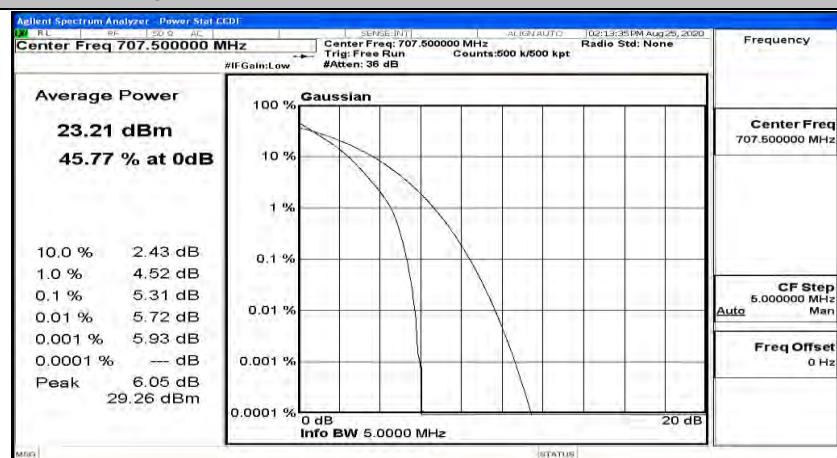
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



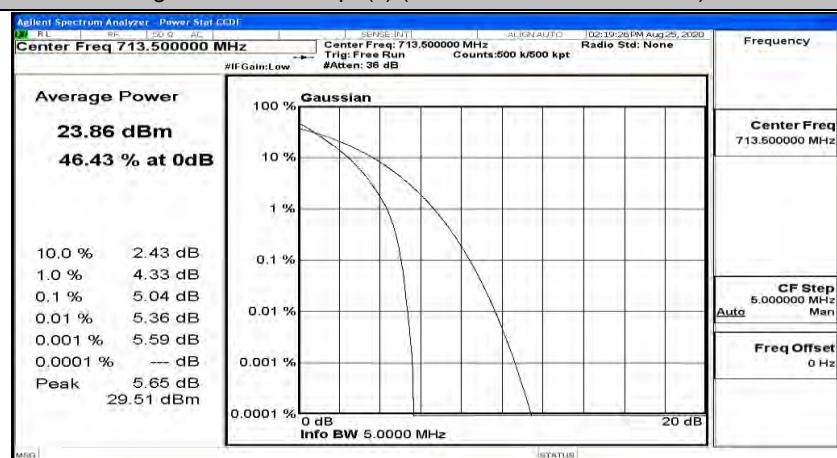
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



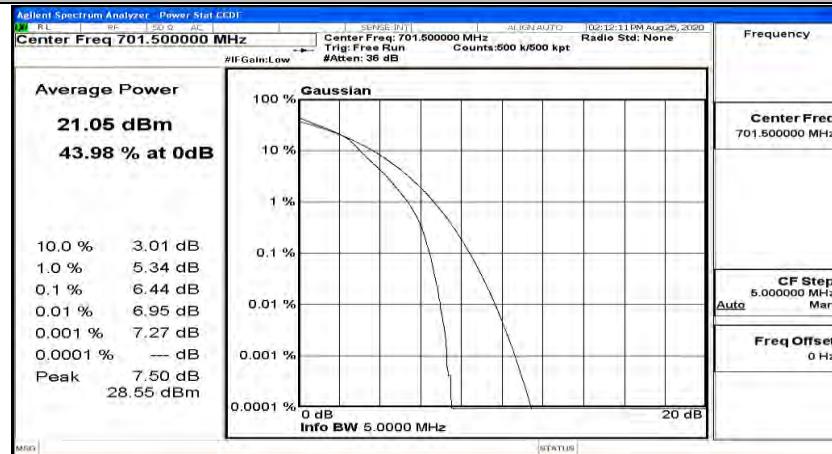
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



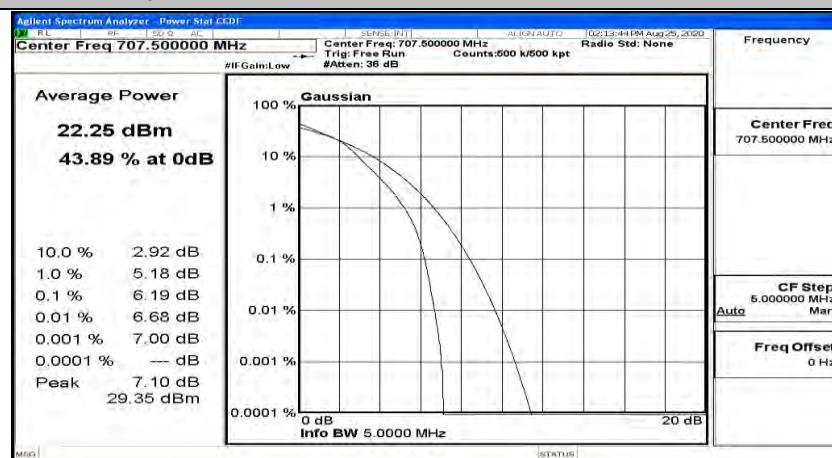
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



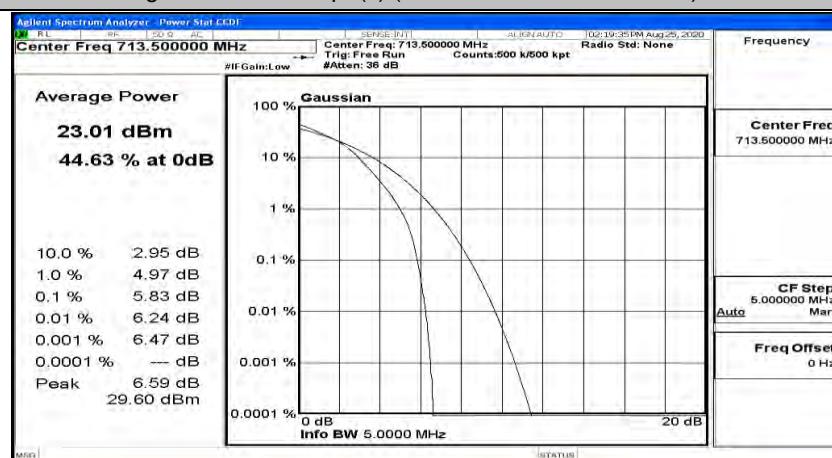
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



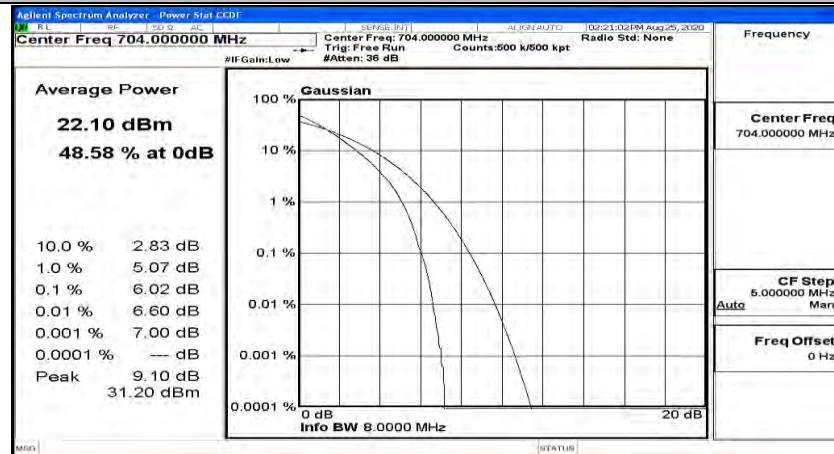
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



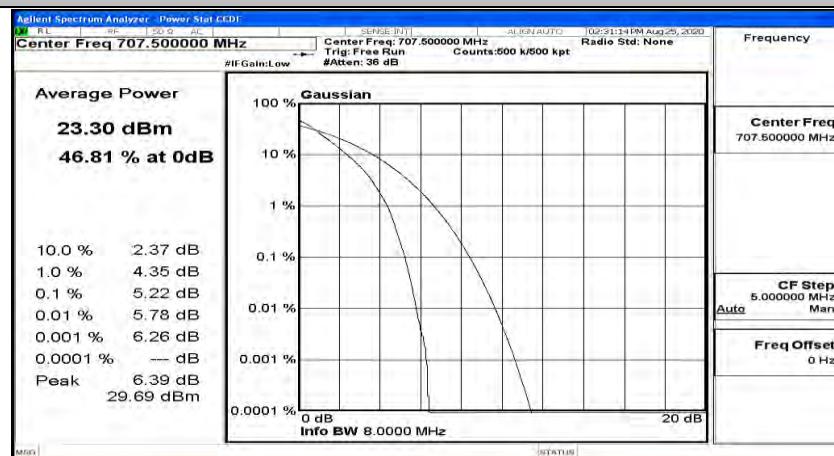
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



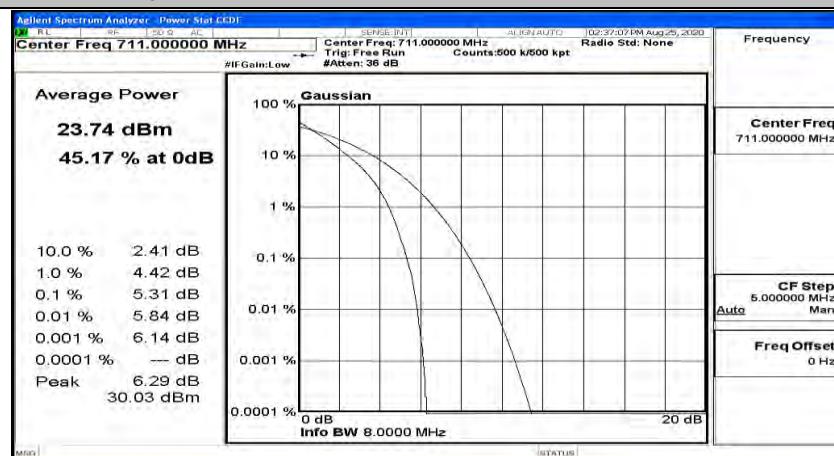
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



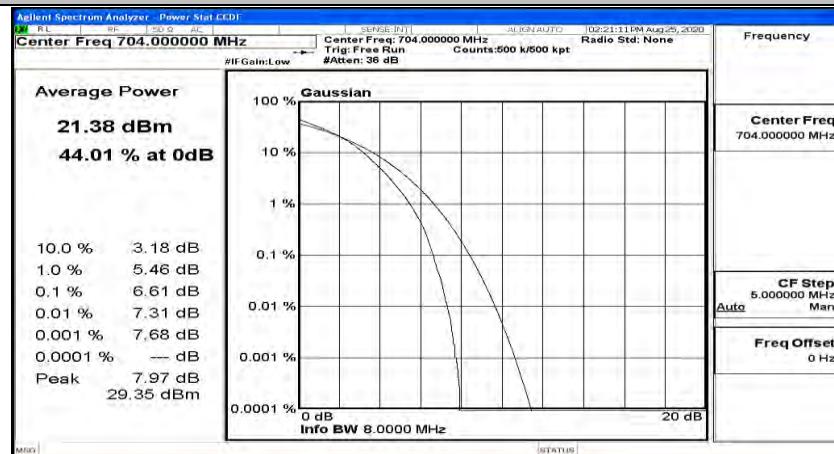
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



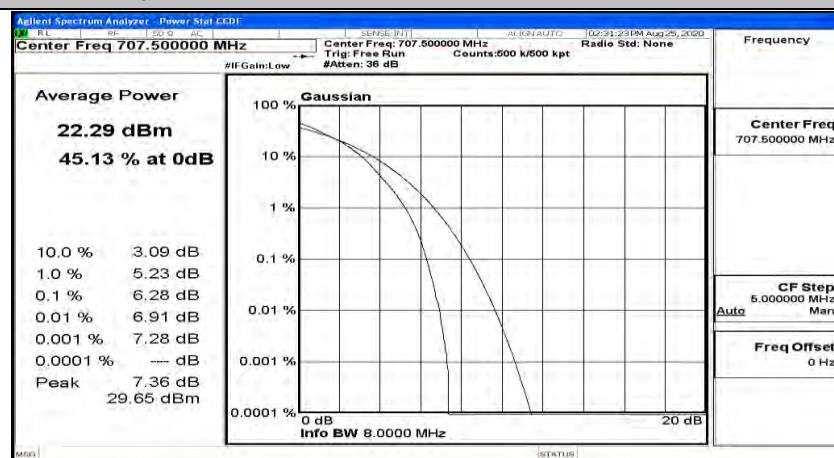
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



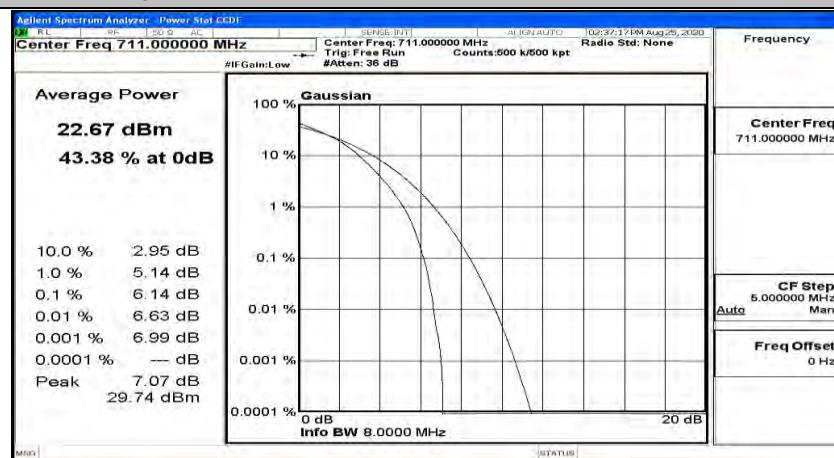
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

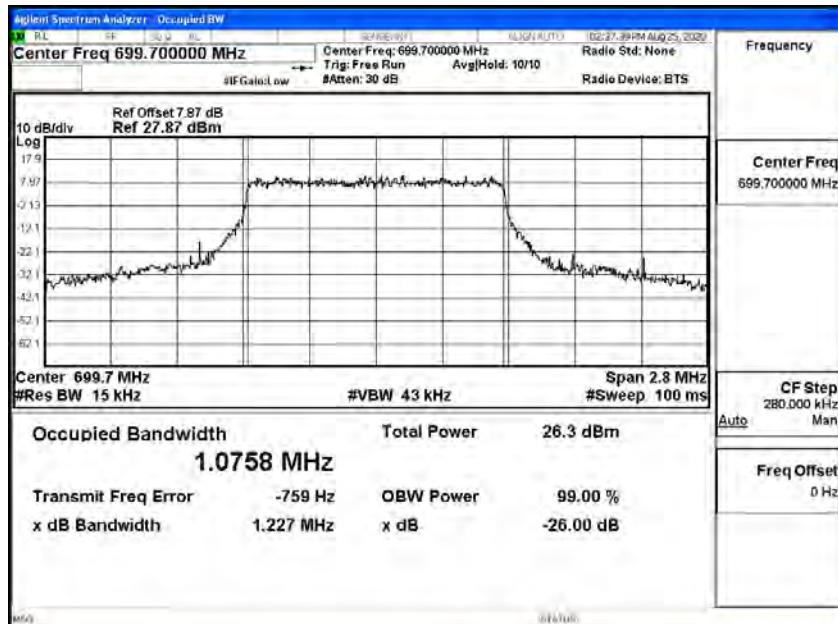
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0758	1.227	PASS
	MCH	1.0785	1.244	PASS
	HCH	1.0780	1.234	PASS
16QAM	LCH	1.0788	1.220	PASS
	MCH	1.0779	1.233	PASS
	HCH	1.0806	1.248	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6912	2.913	PASS
	MCH	2.6820	2.891	PASS
	HCH	2.6793	2.878	PASS
16QAM	LCH	2.6786	2.872	PASS
	MCH	2.6868	2.909	PASS
	HCH	2.6821	2.861	PASS

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4781	4.832	PASS
	MCH	4.4701	4.779	PASS
	HCH	4.4705	4.807	PASS
16QAM	LCH	4.4837	4.838	PASS
	MCH	4.4675	4.775	PASS
	HCH	4.4694	4.794	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9344	9.494	PASS
	MCH	8.9034	9.423	PASS
	HCH	8.9253	9.392	PASS
16QAM	LCH	8.9454	9.429	PASS
	MCH	8.9167	9.389	PASS
	HCH	8.9115	9.402	PASS

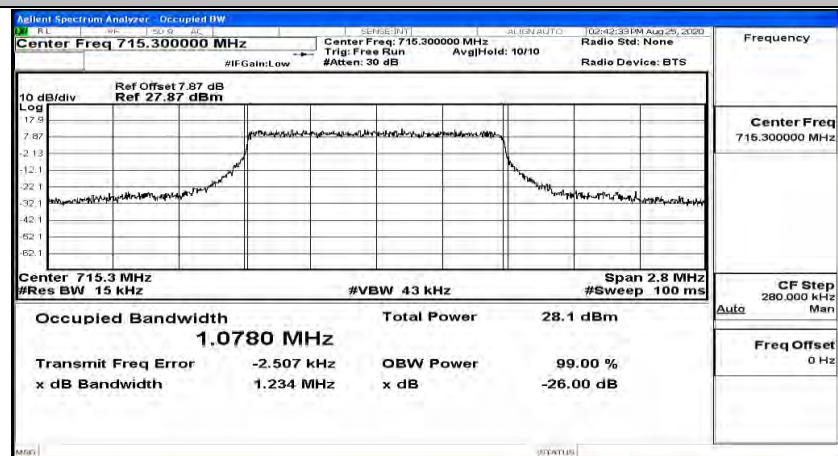
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



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



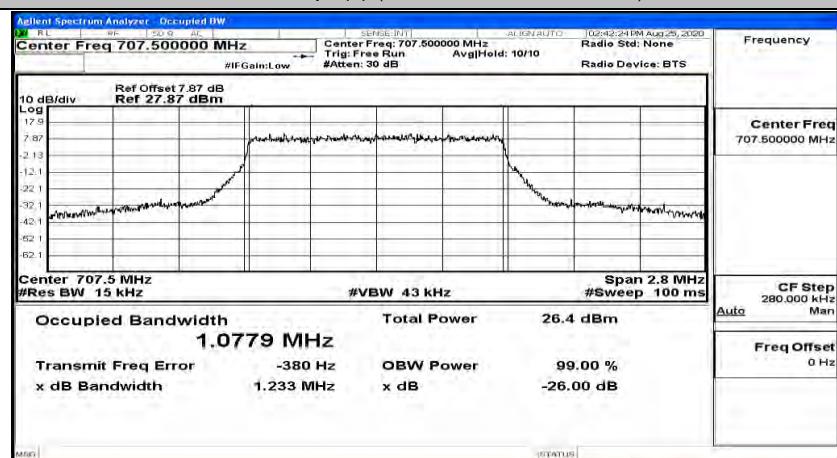
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



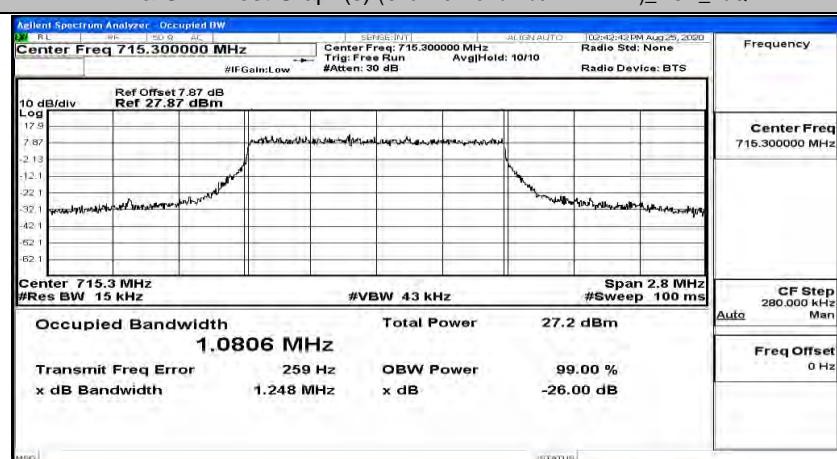
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



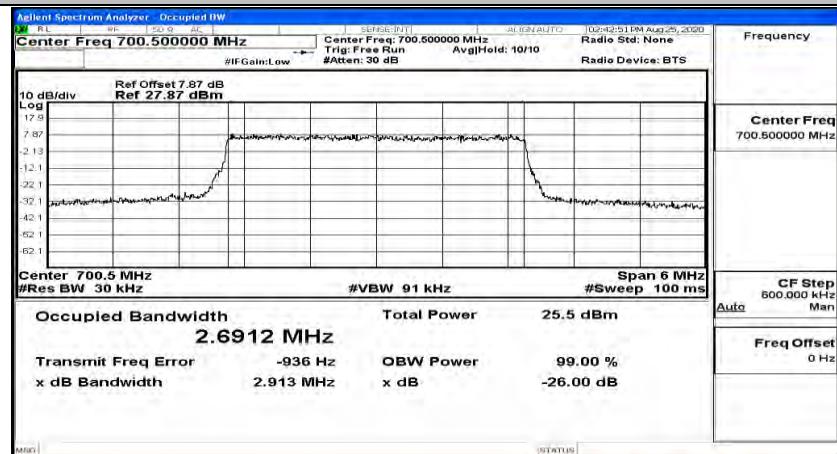
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



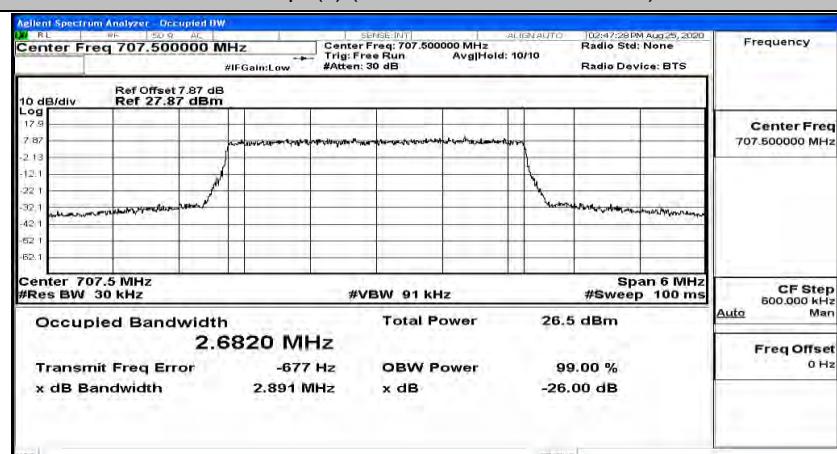
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



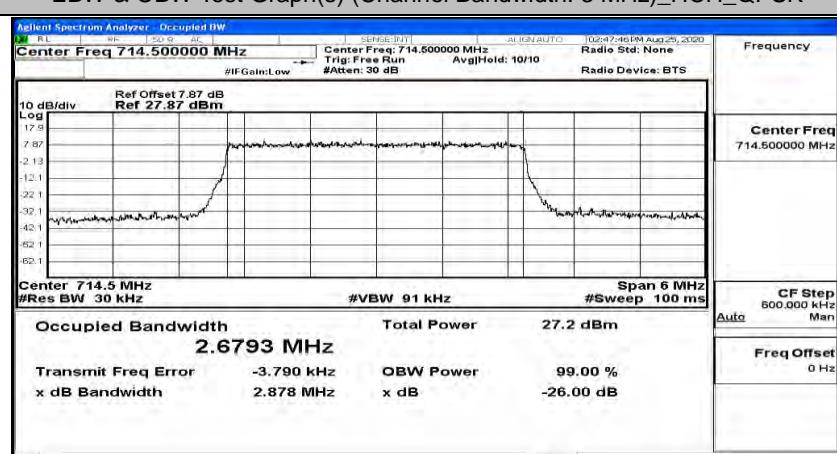
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



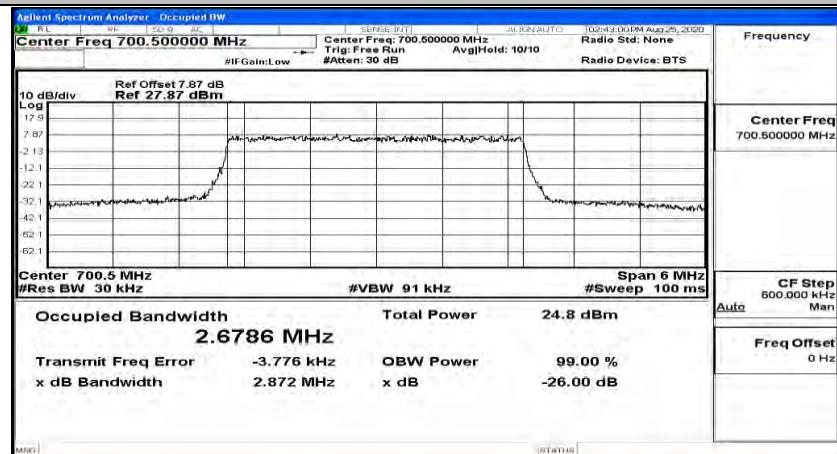
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



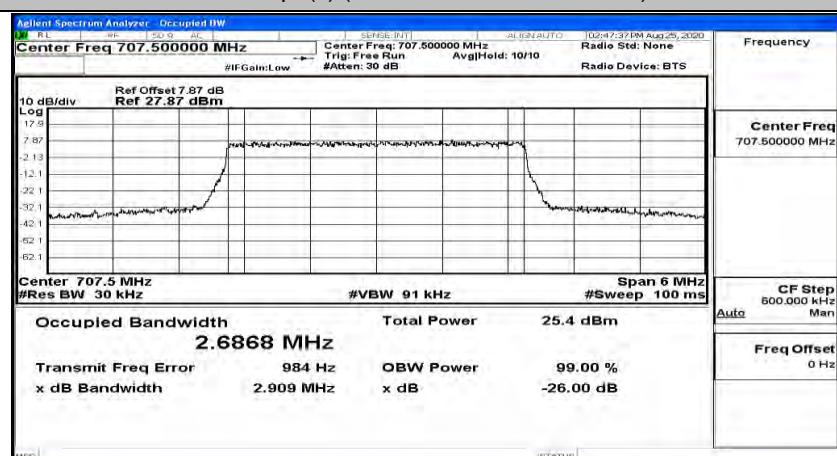
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



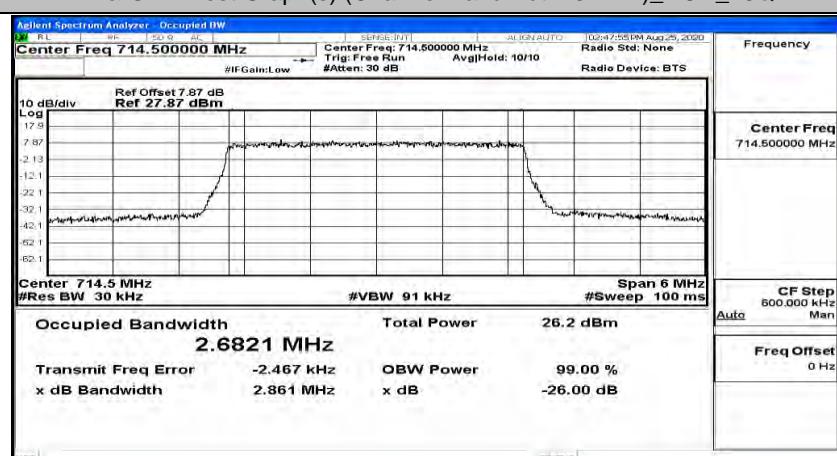
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



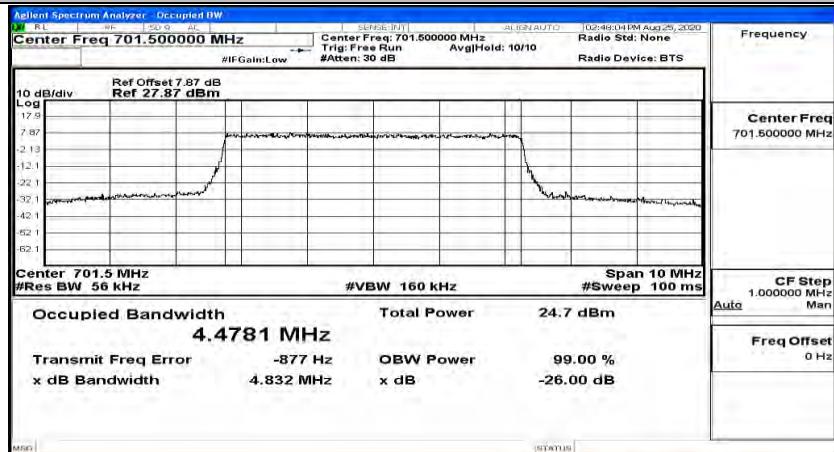
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



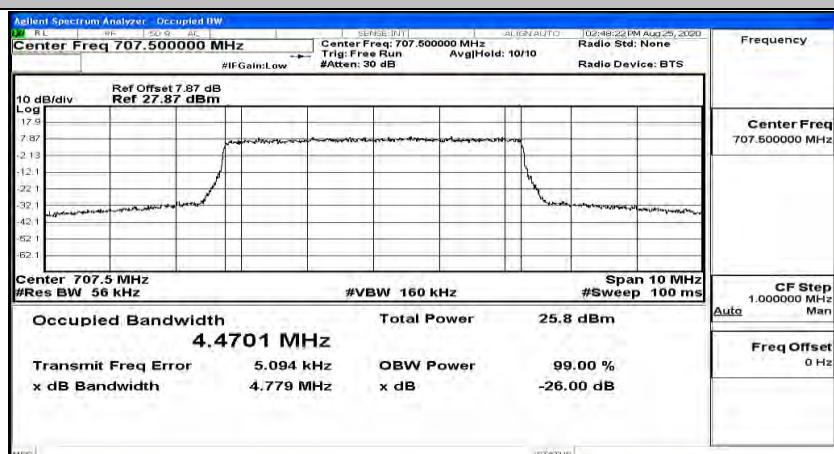
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



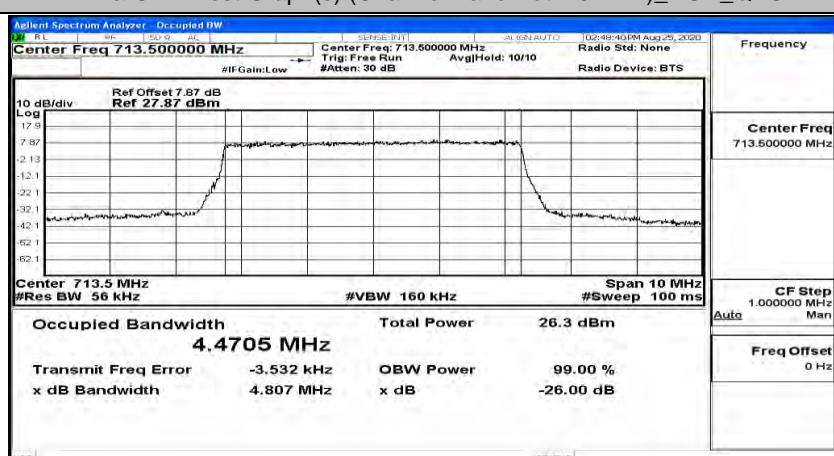
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



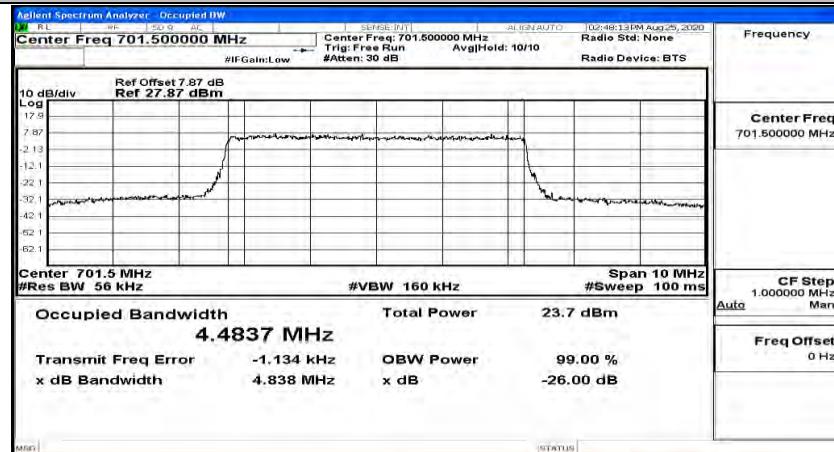
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



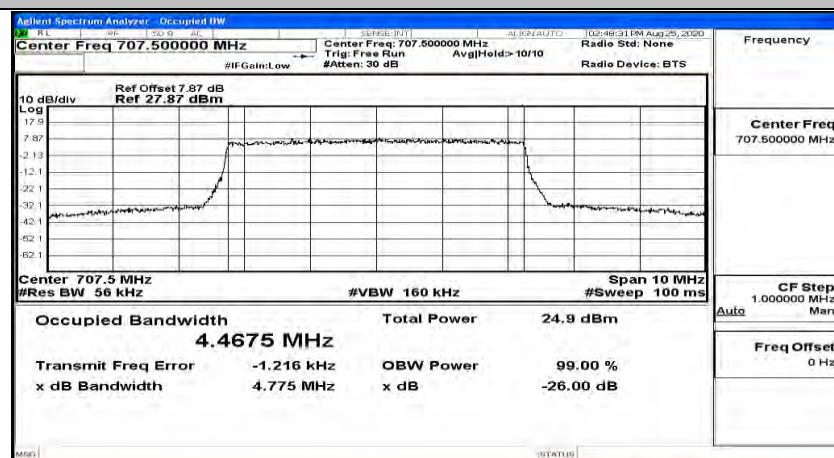
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



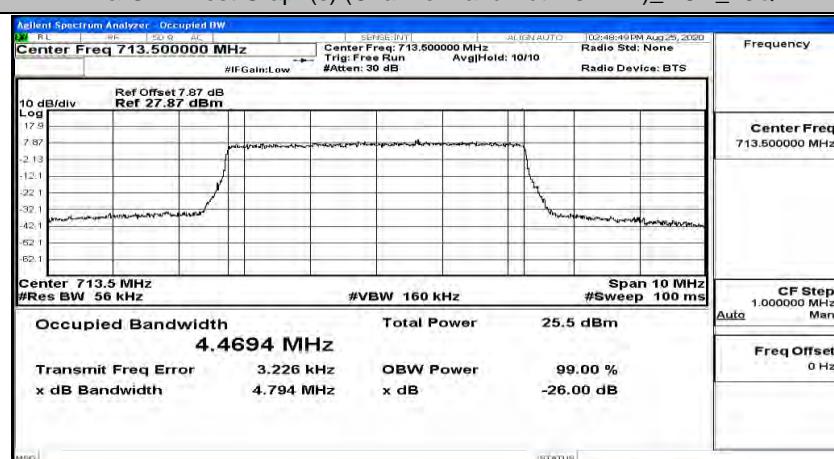
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



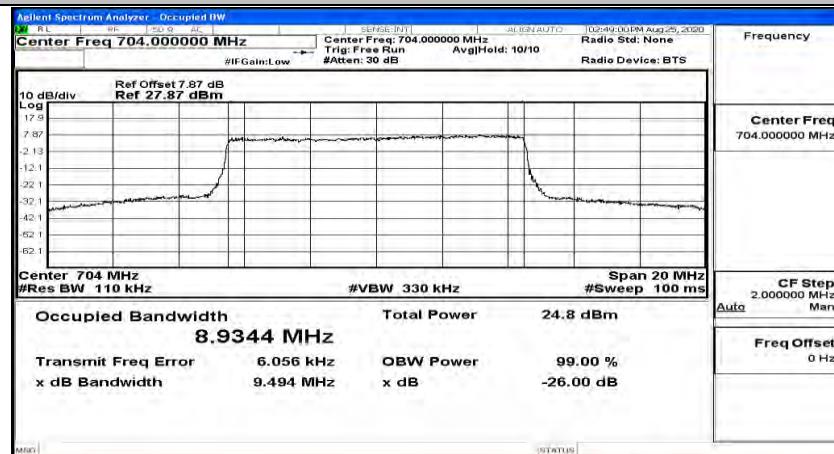
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



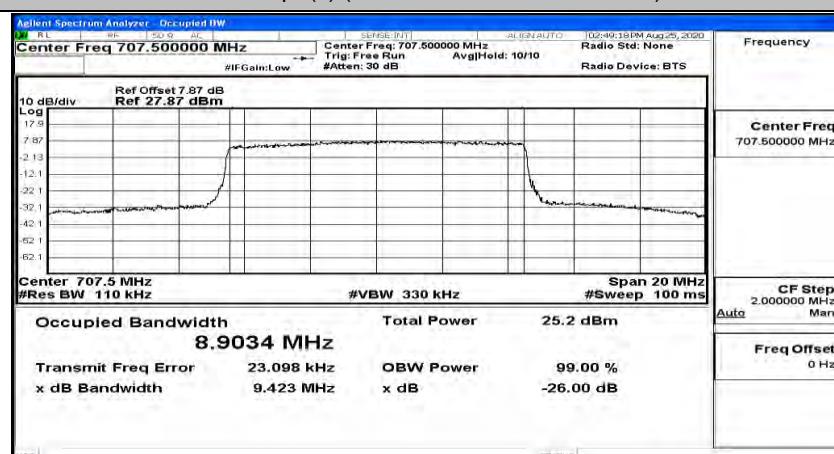
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



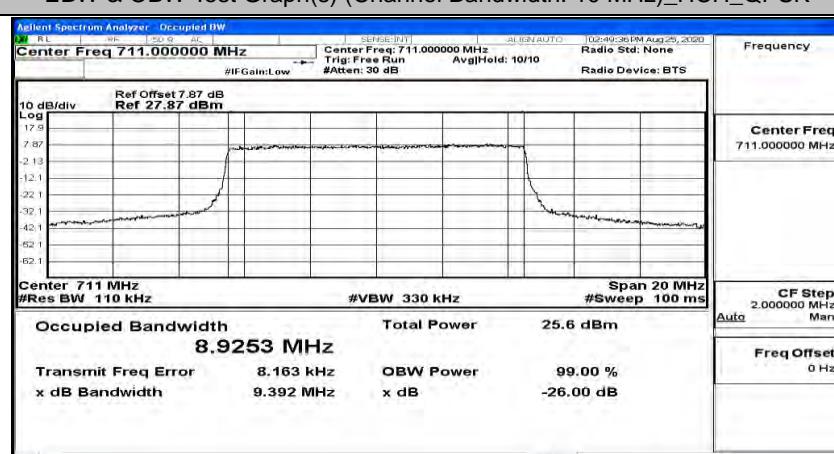
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



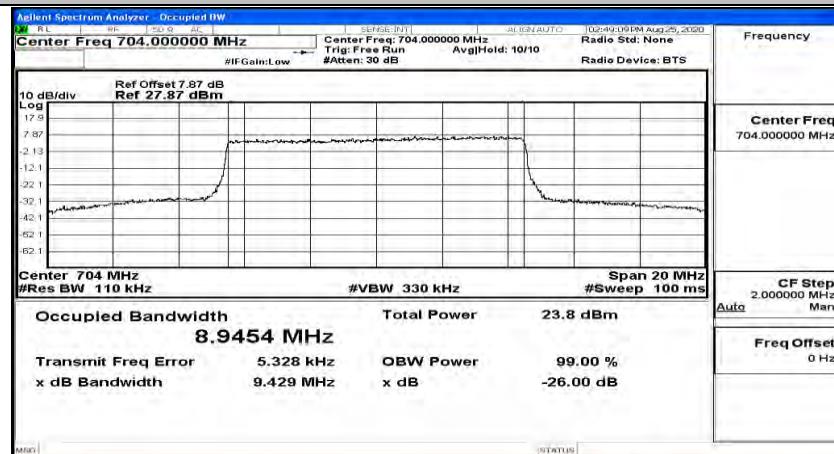
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



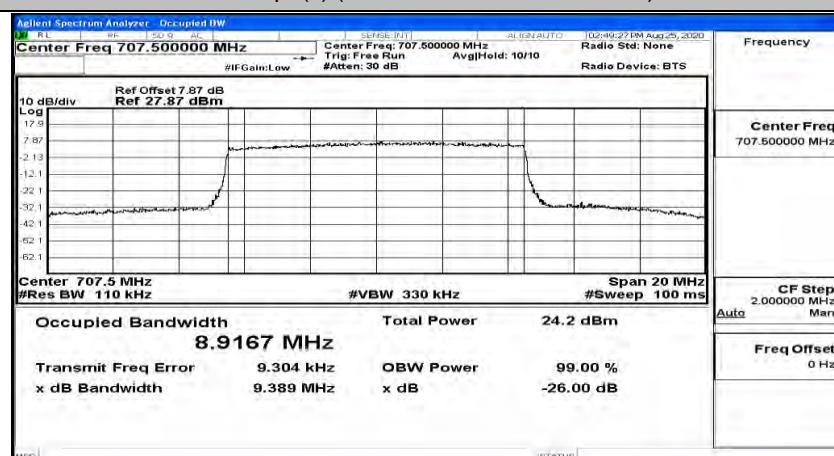
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



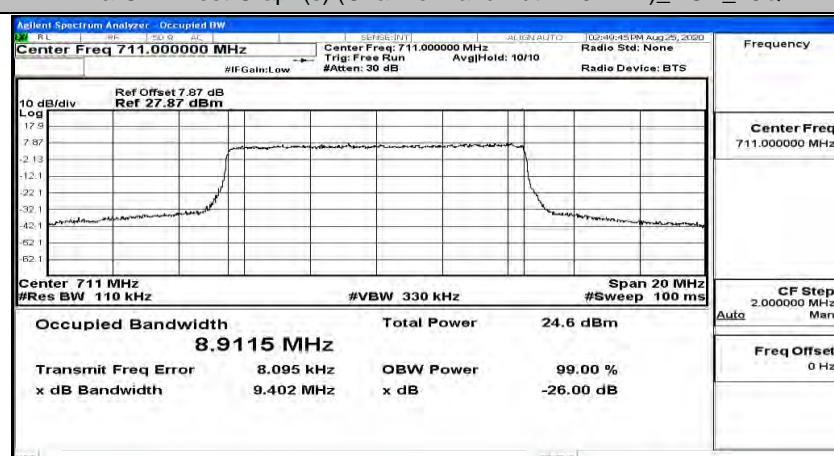
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

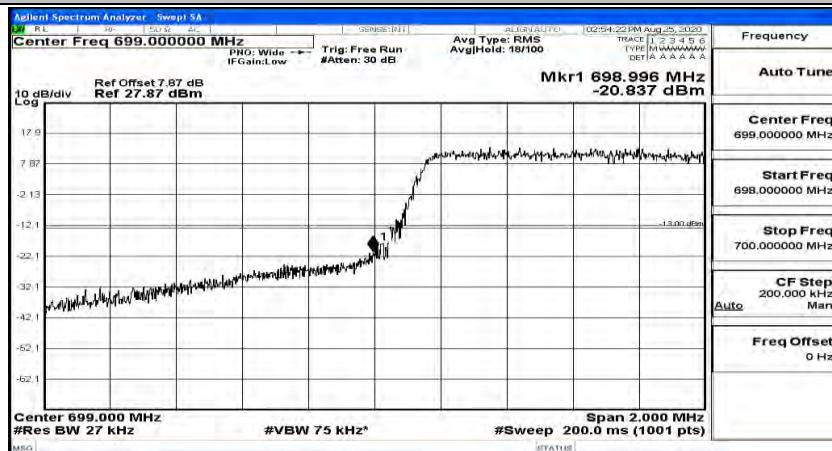


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

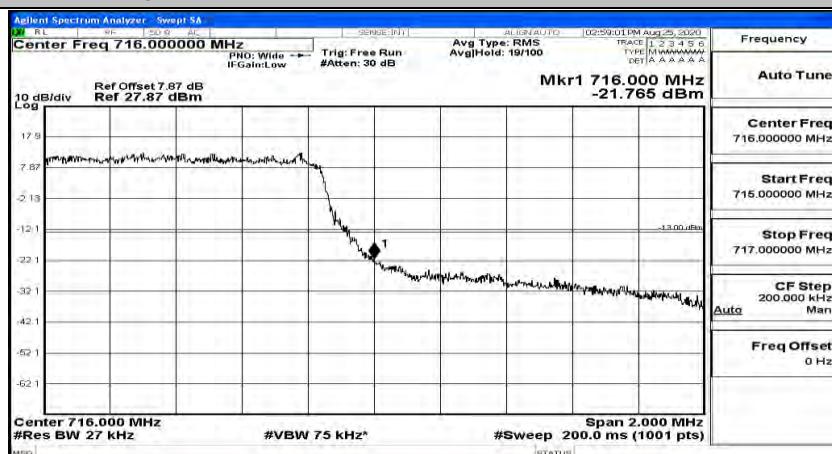


G.4 Band Edge

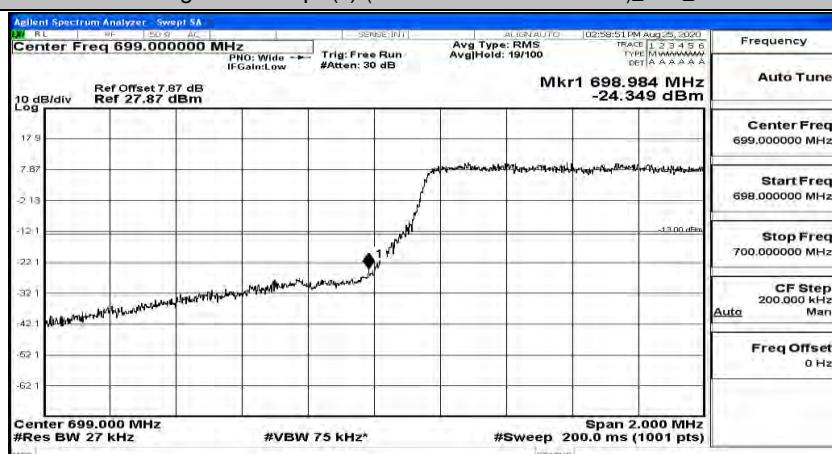
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



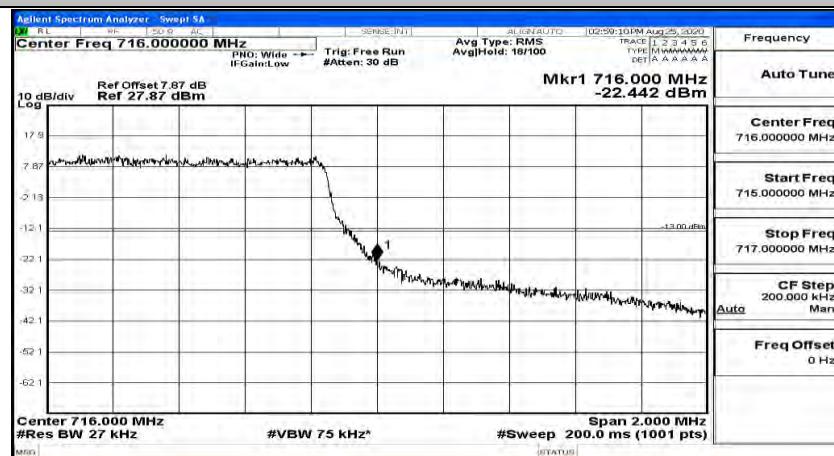
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



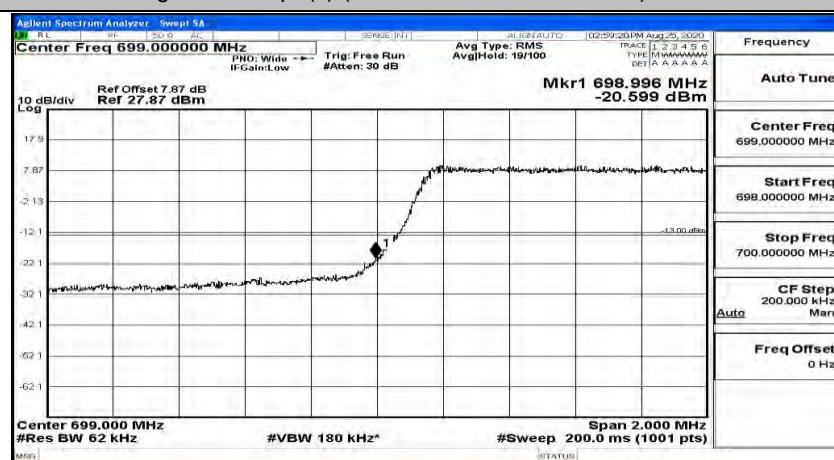
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



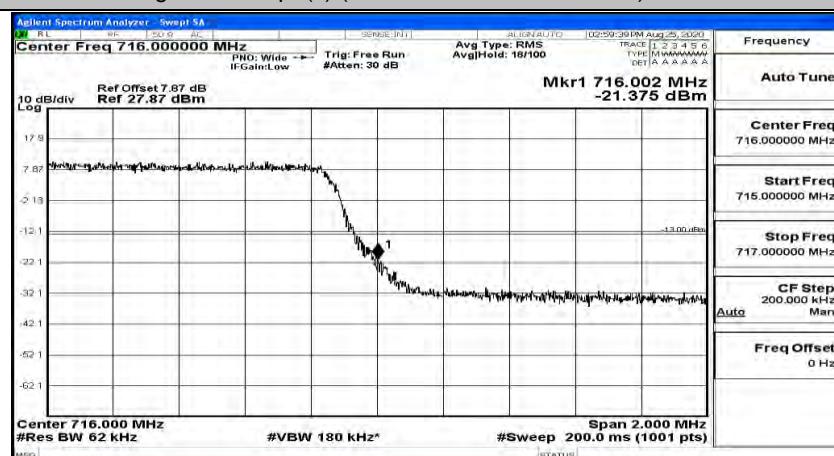
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



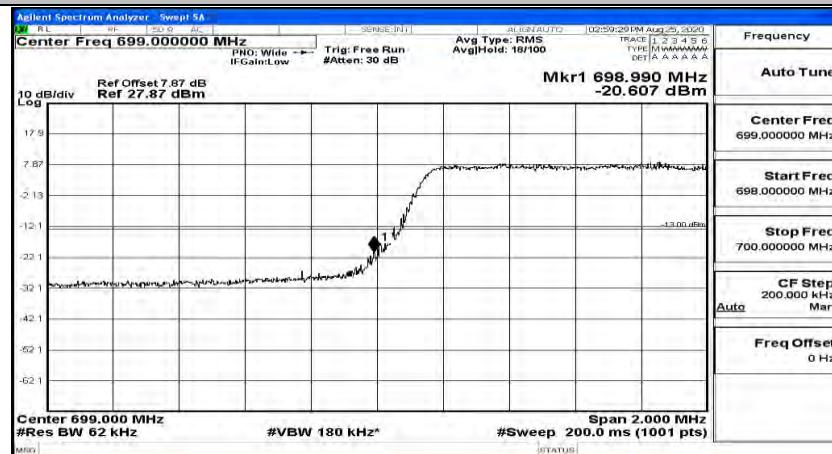
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



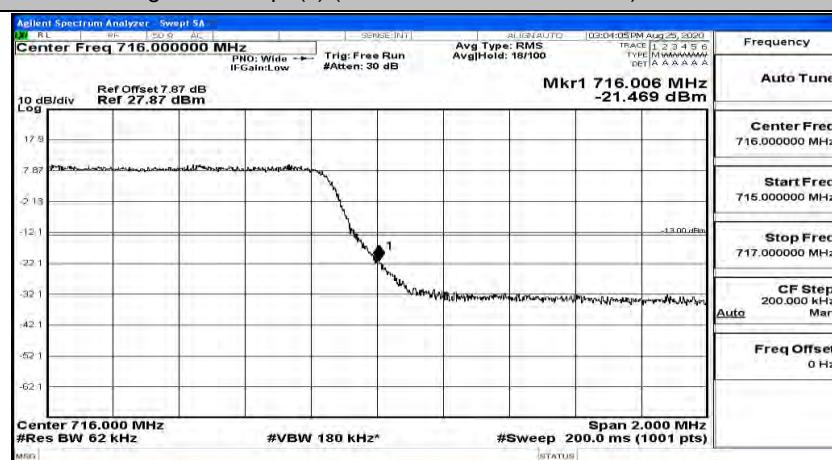
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



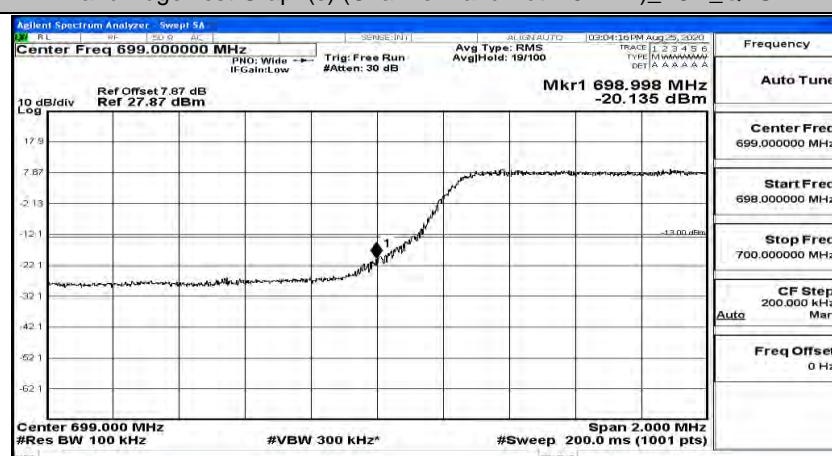
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



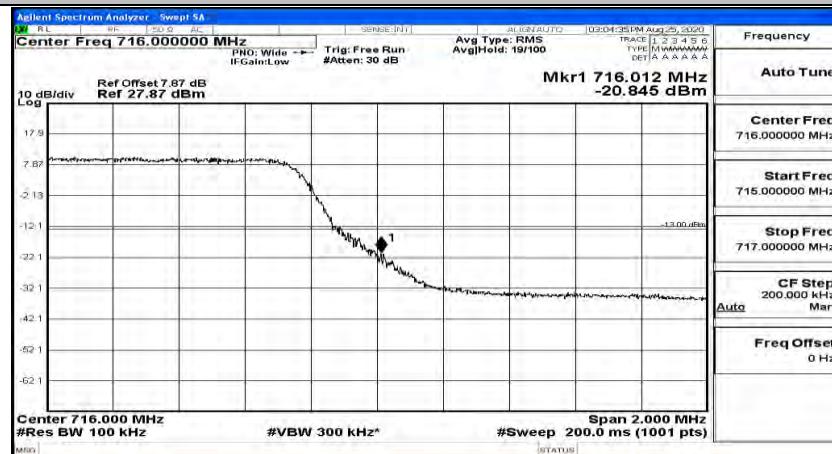
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



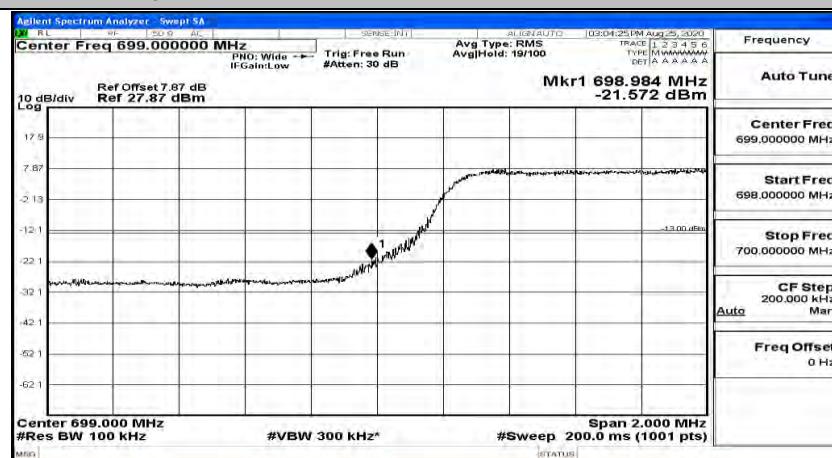
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



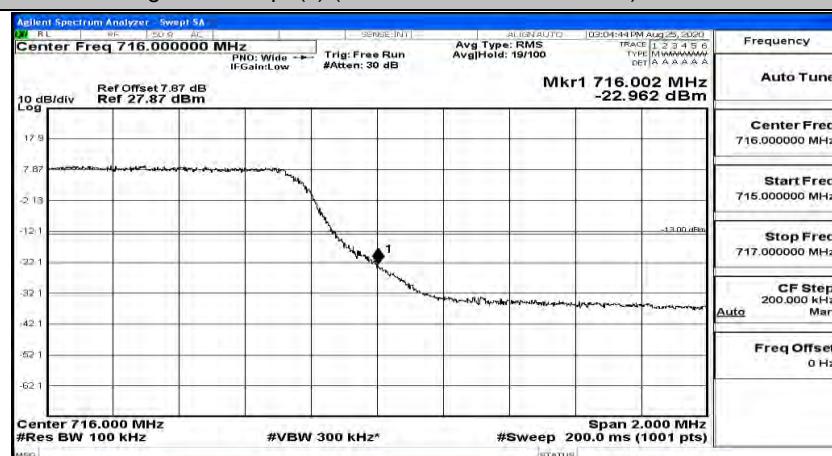
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



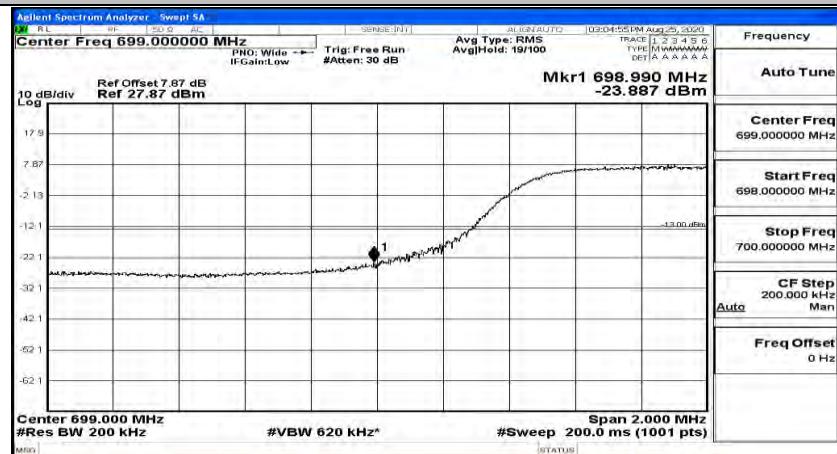
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



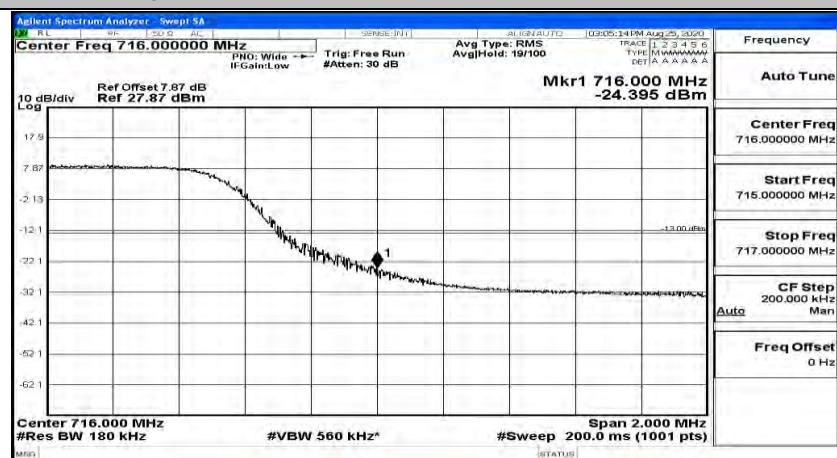
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



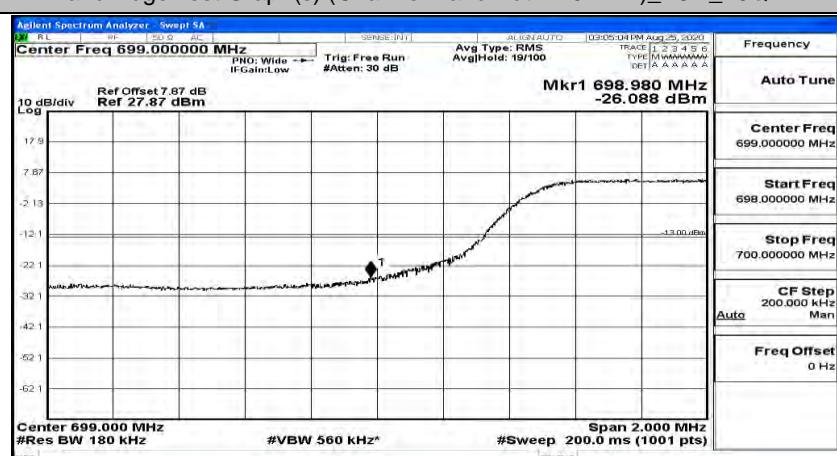
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

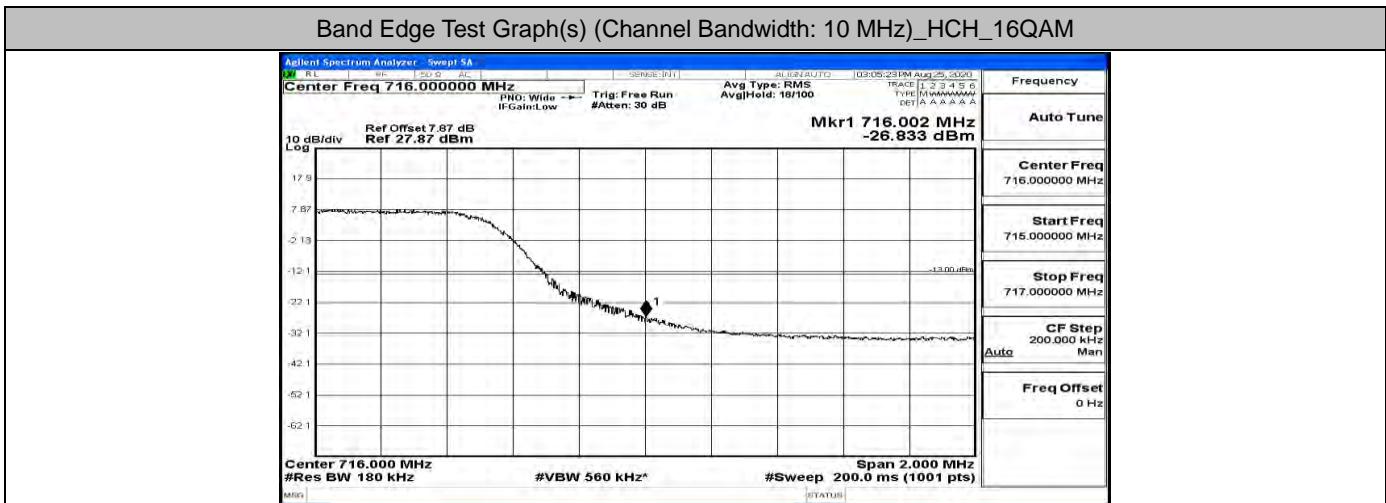


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



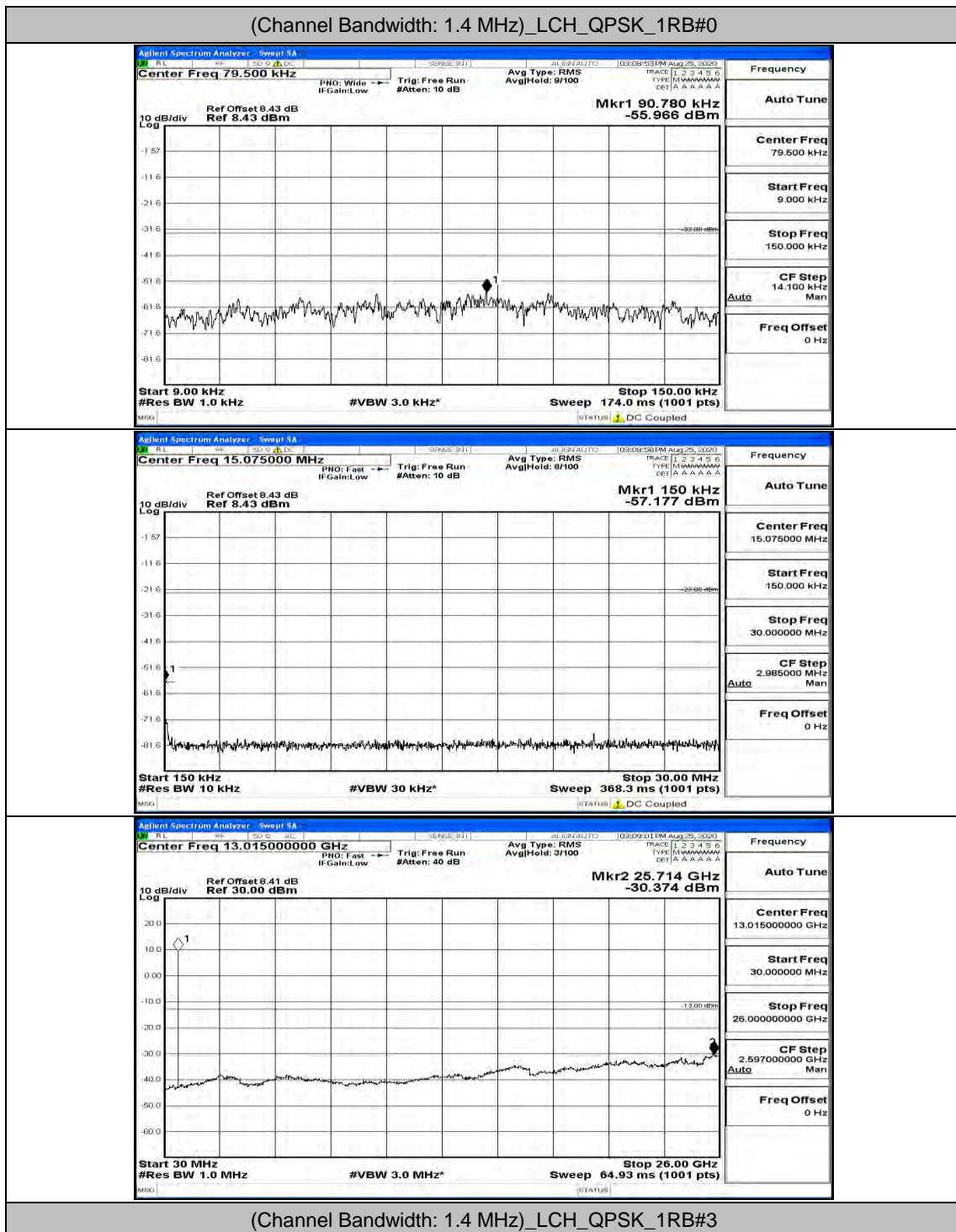
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

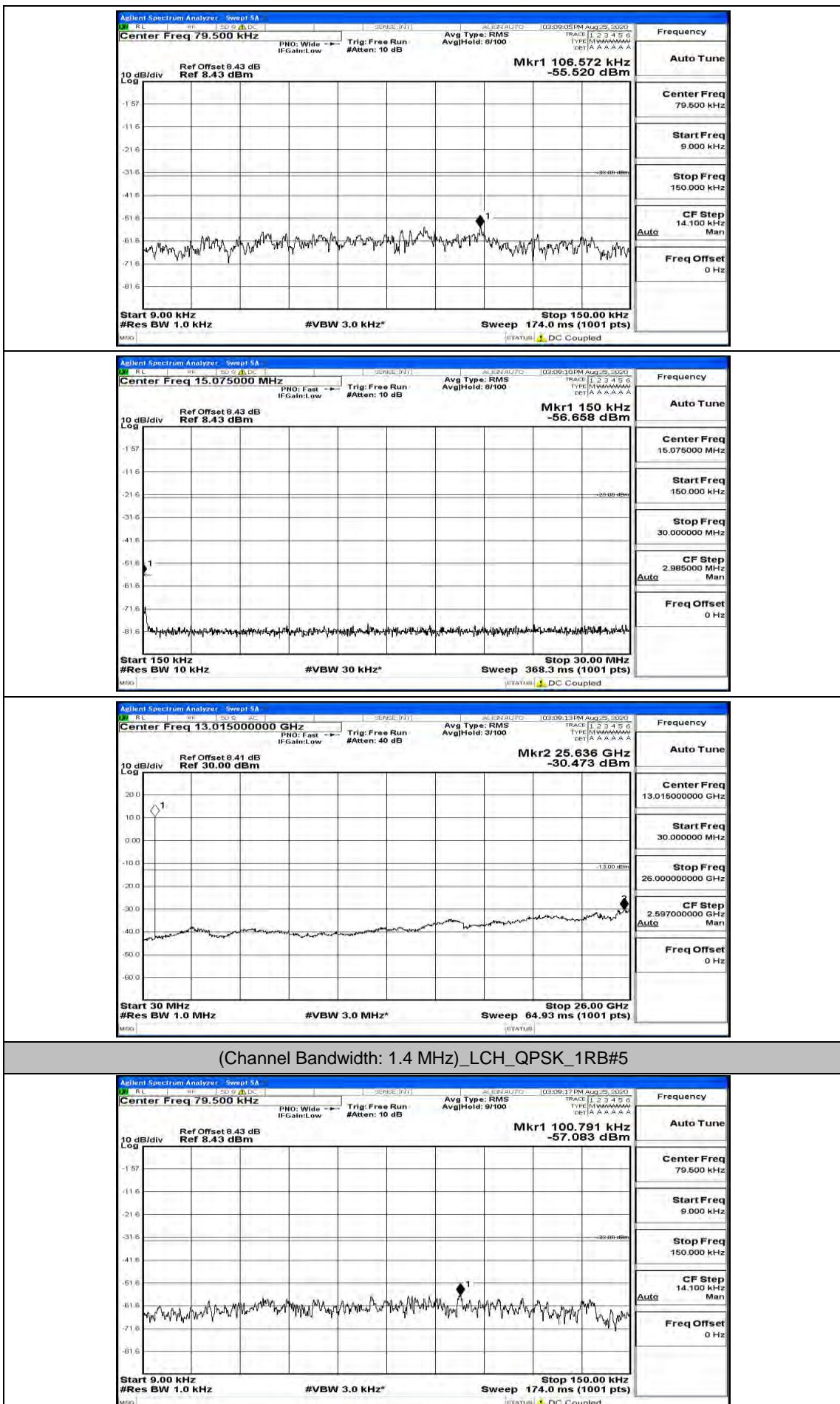


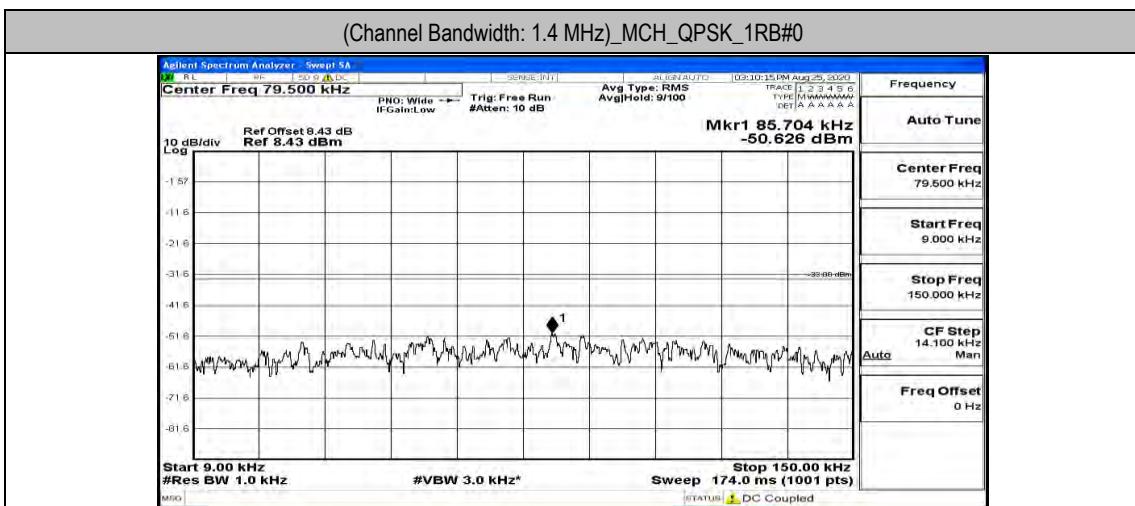
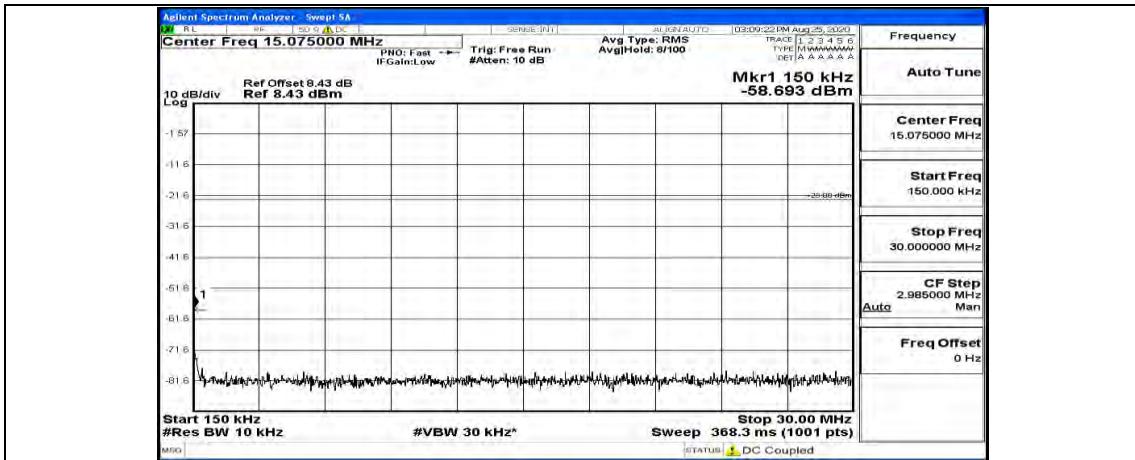


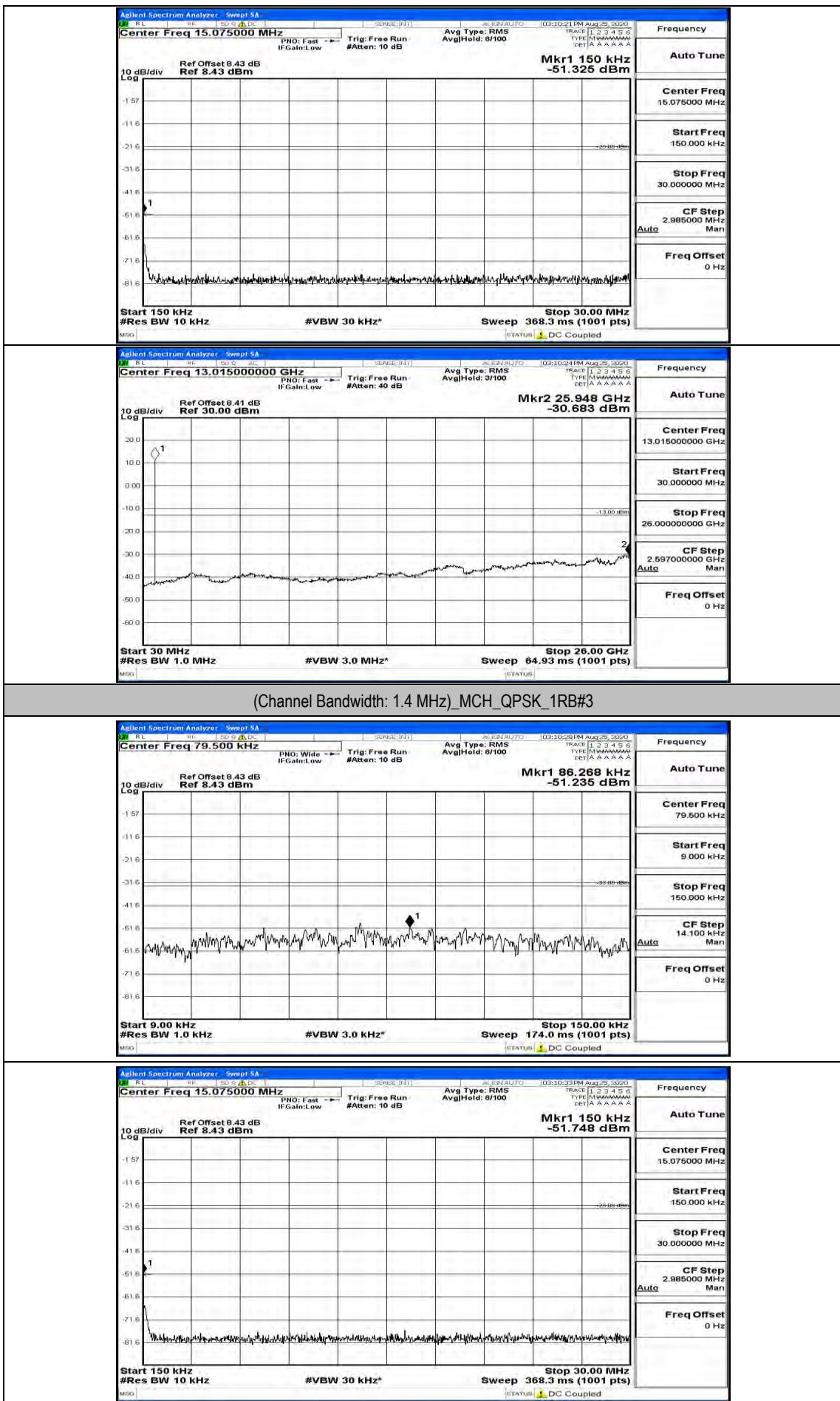
H.5 Conducted Spurious Emission

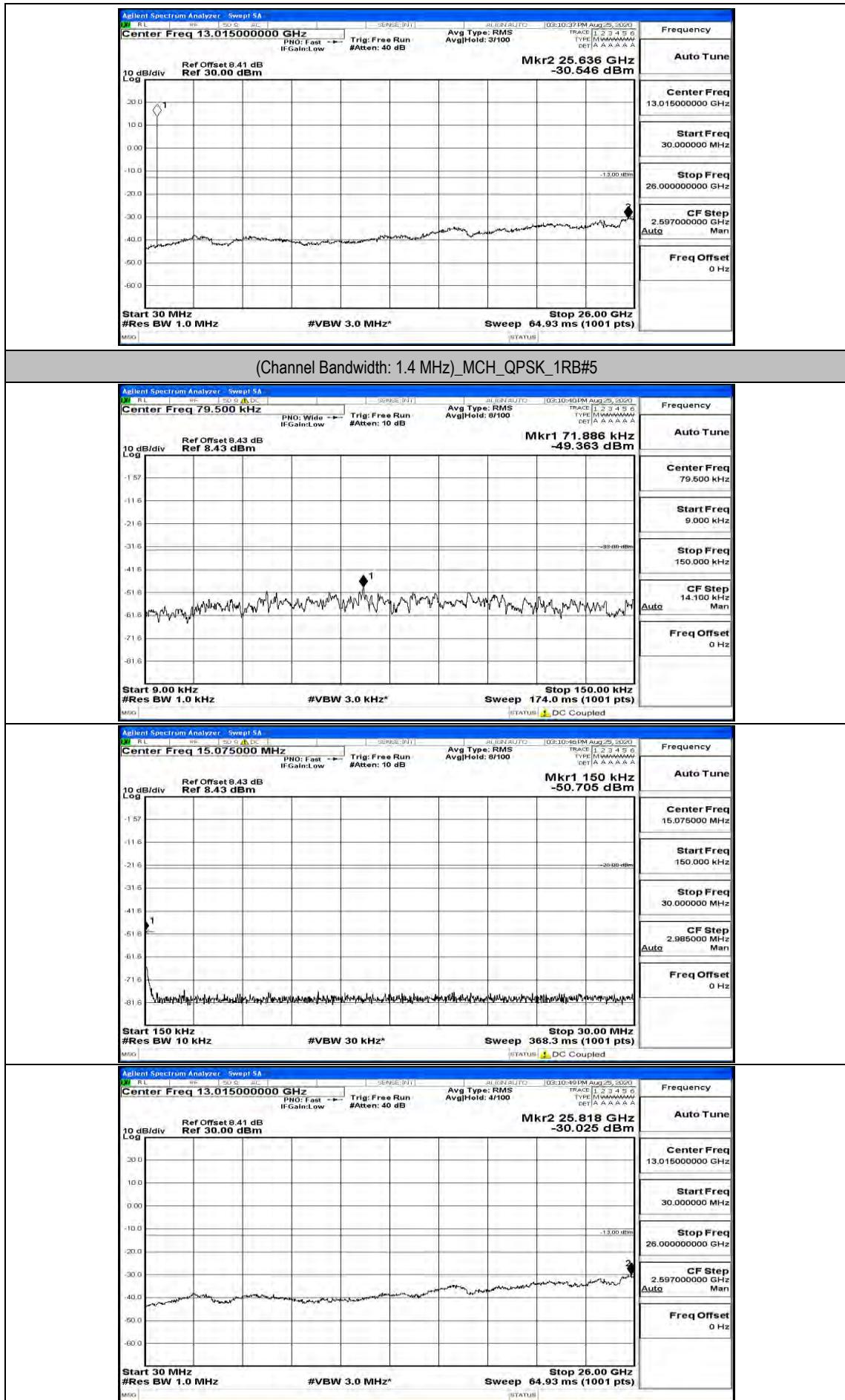
Channel Bandwidth: 1.4 MHz



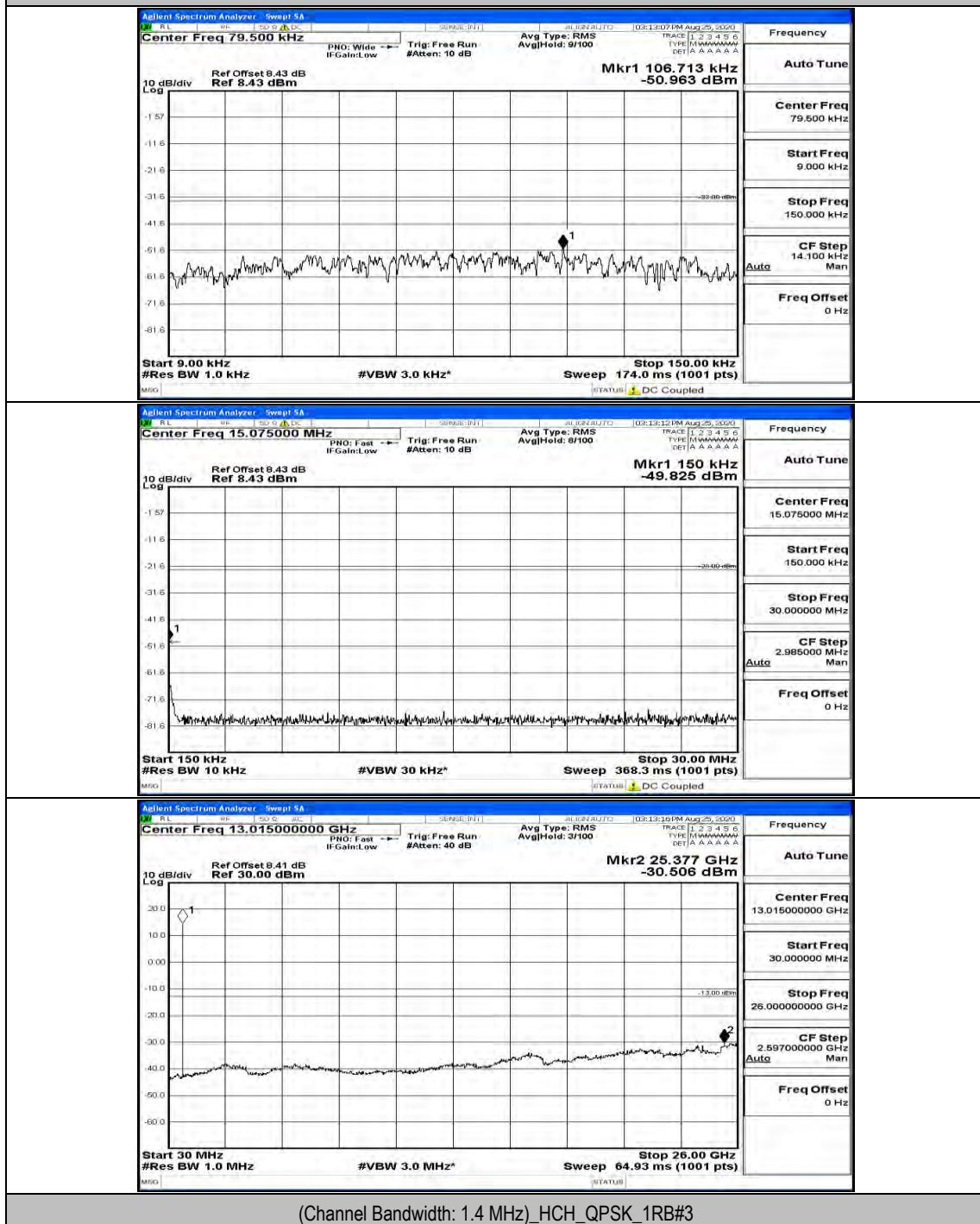


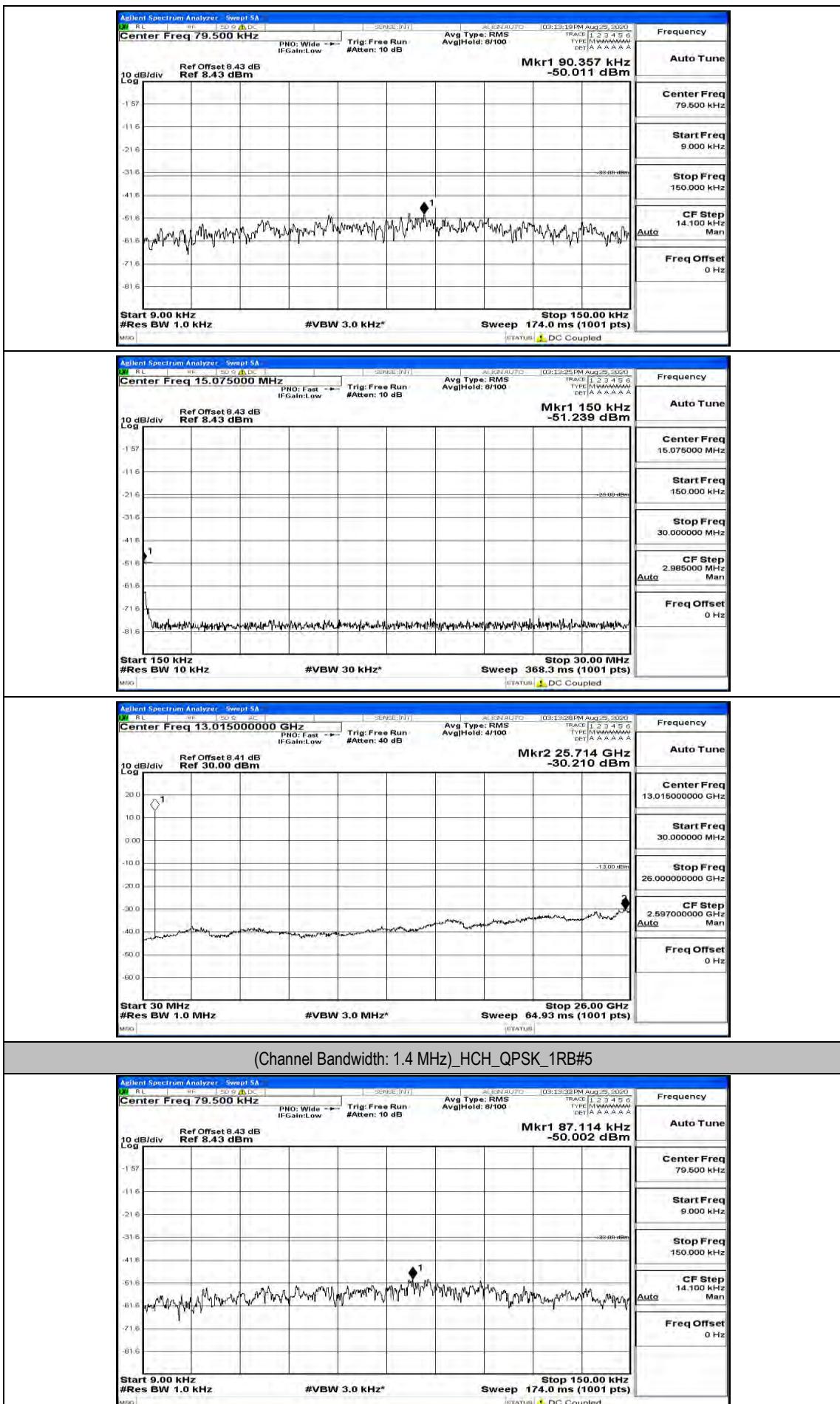


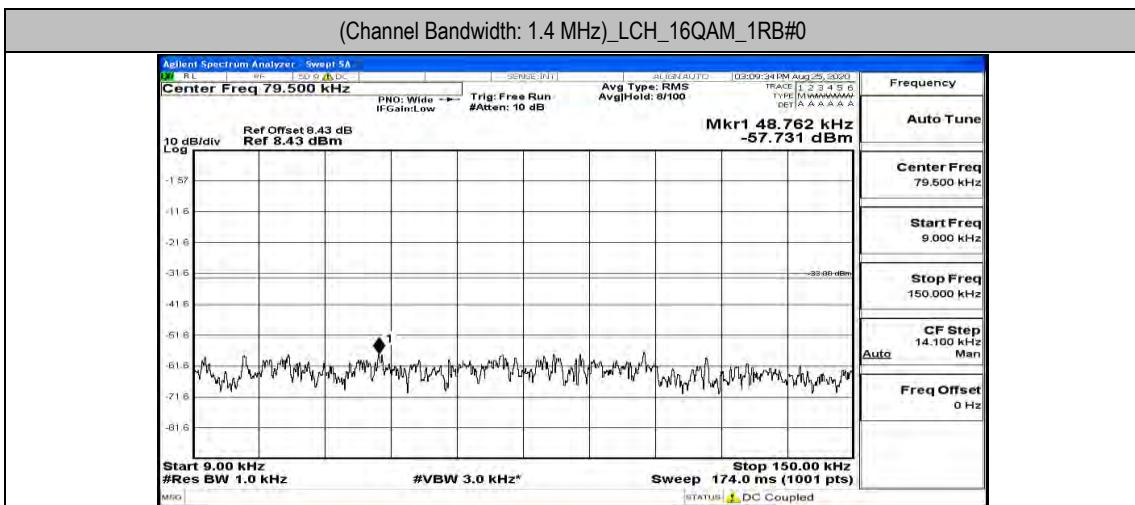
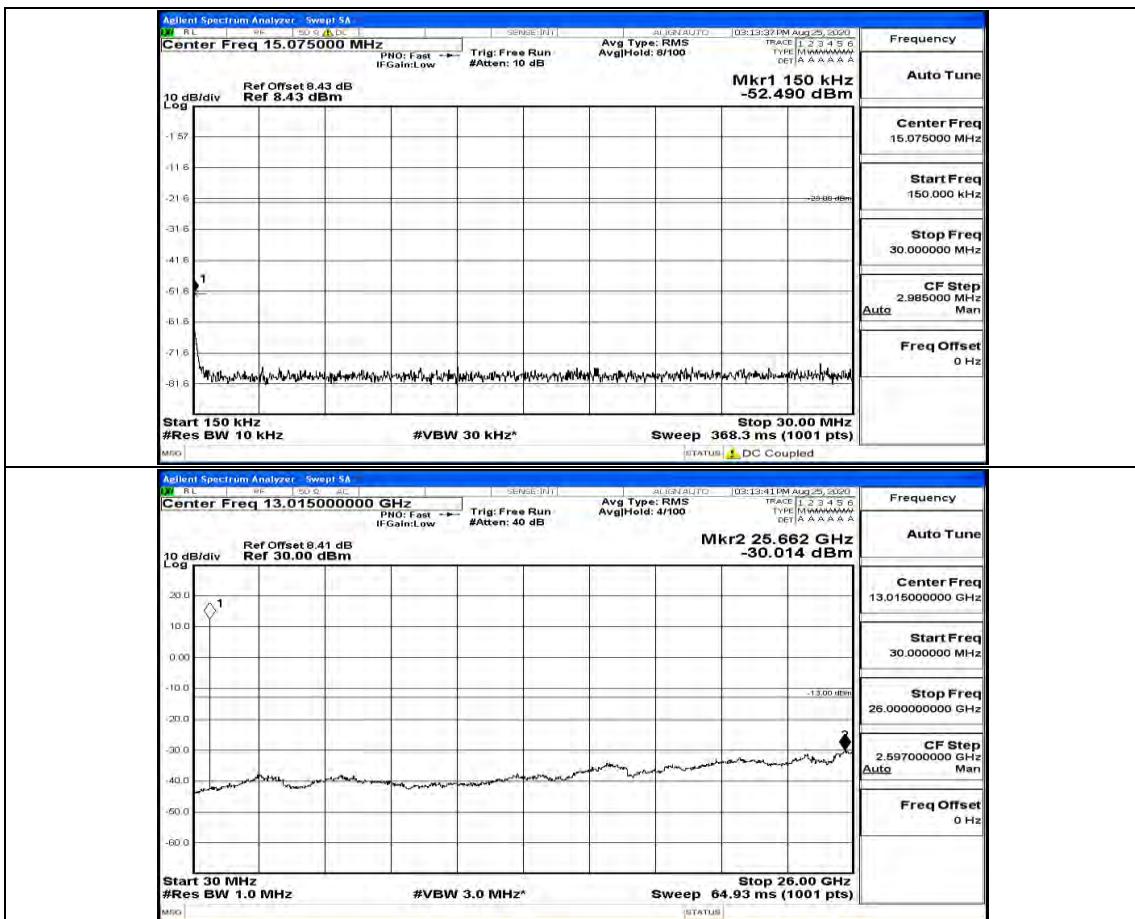


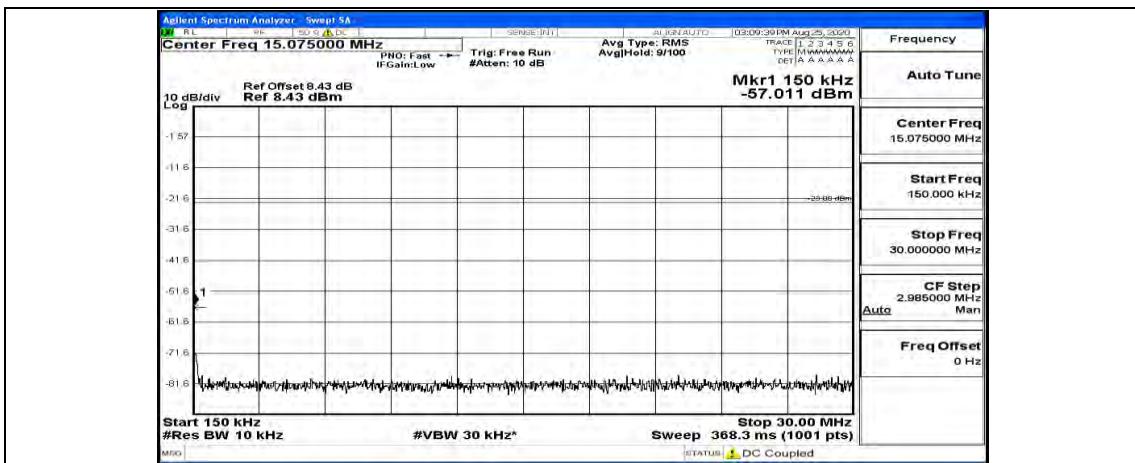


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

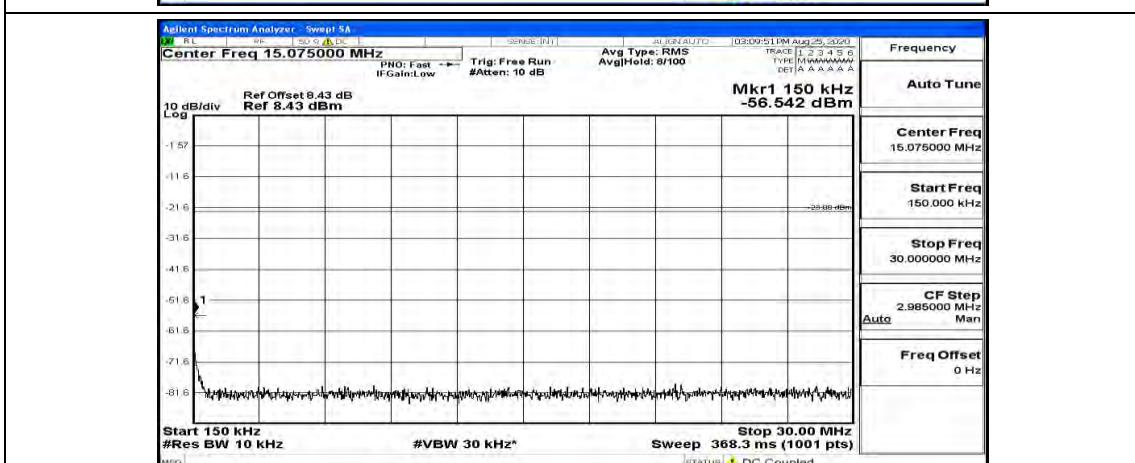
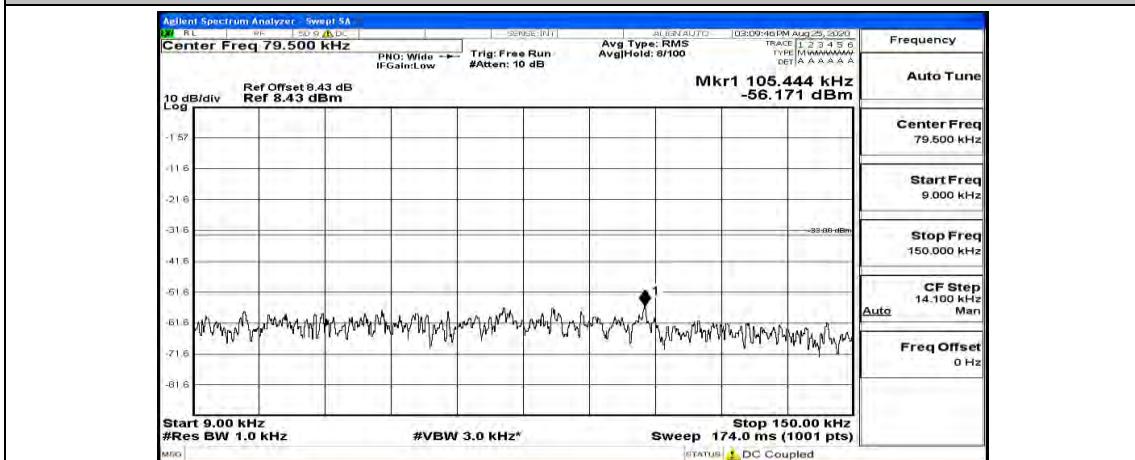


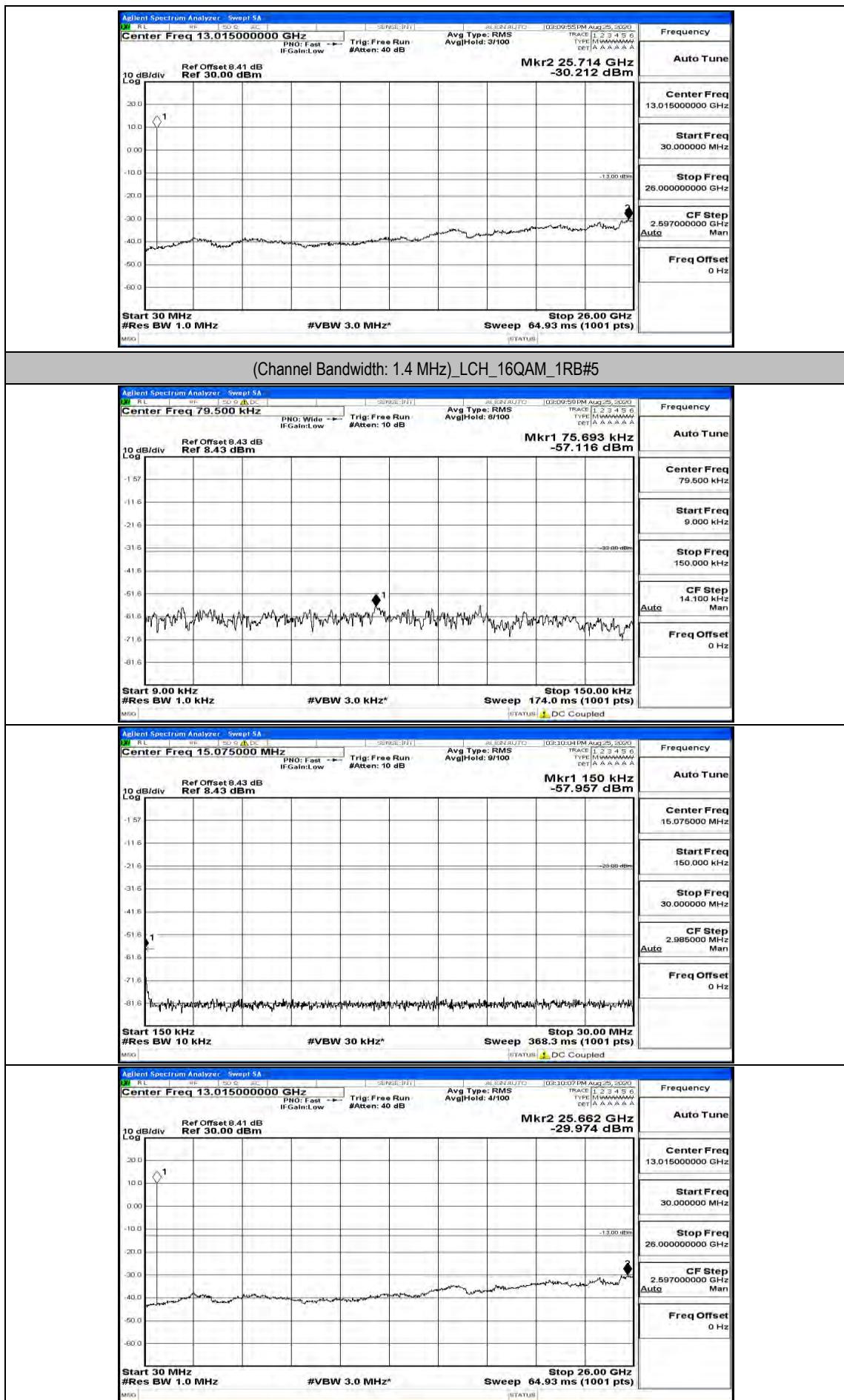


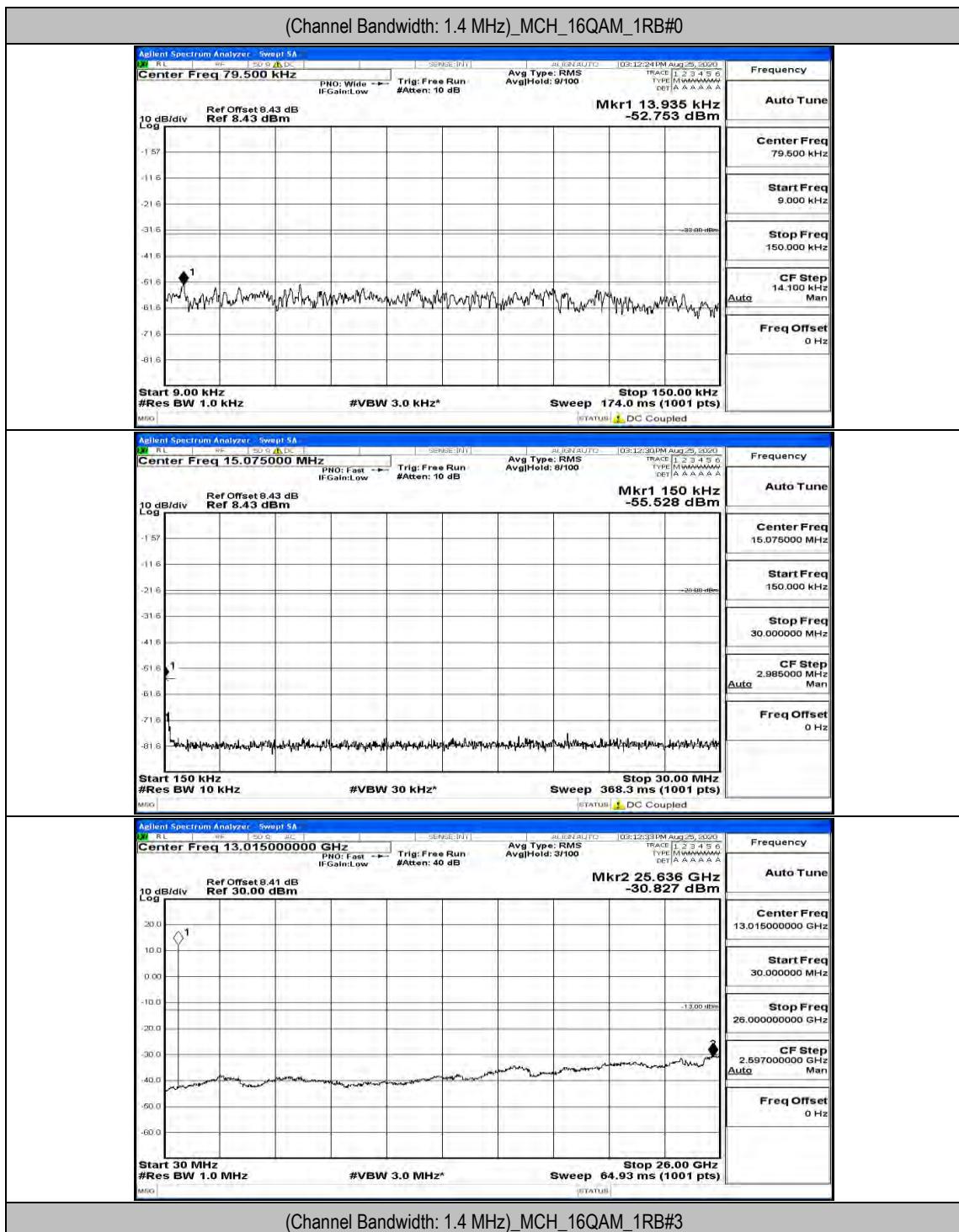


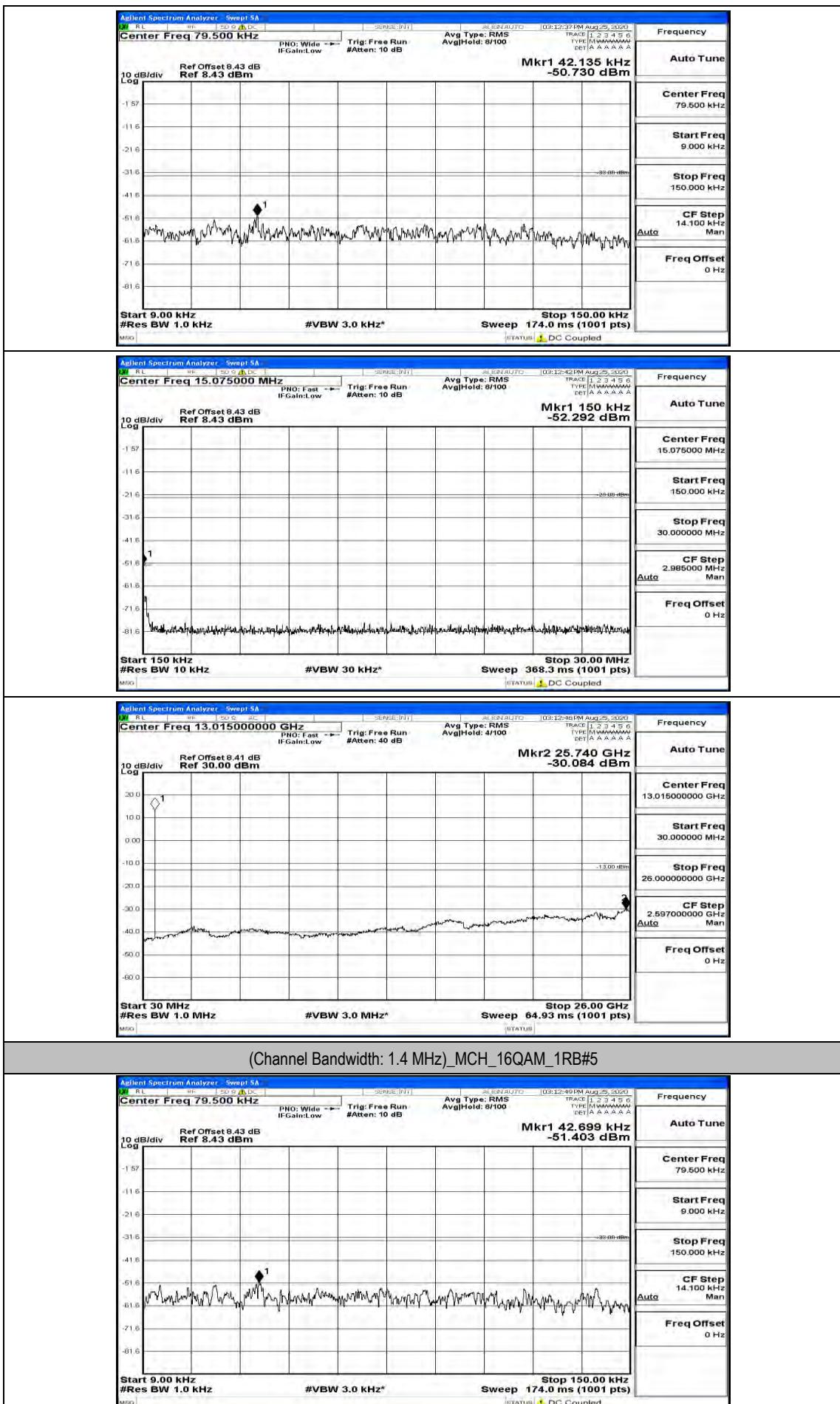


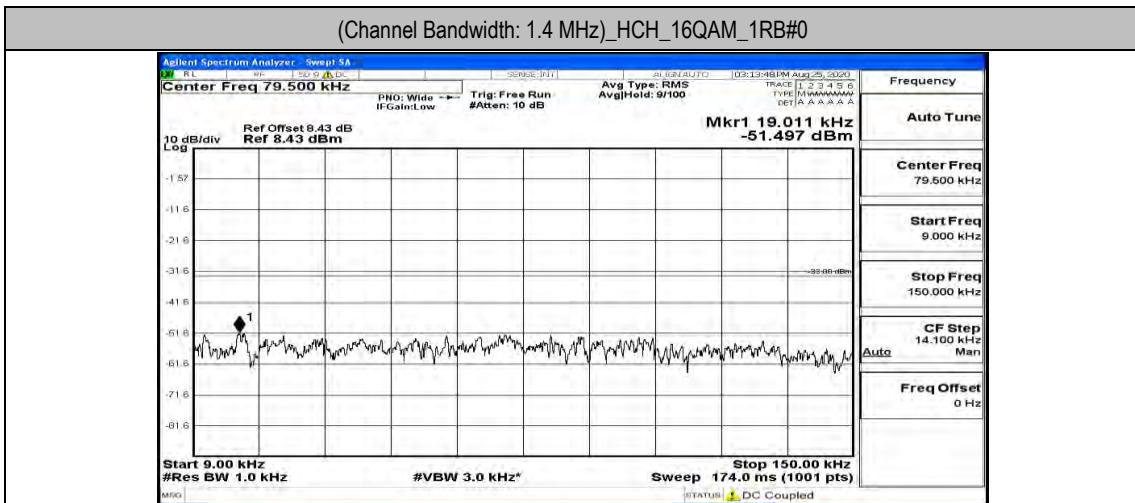
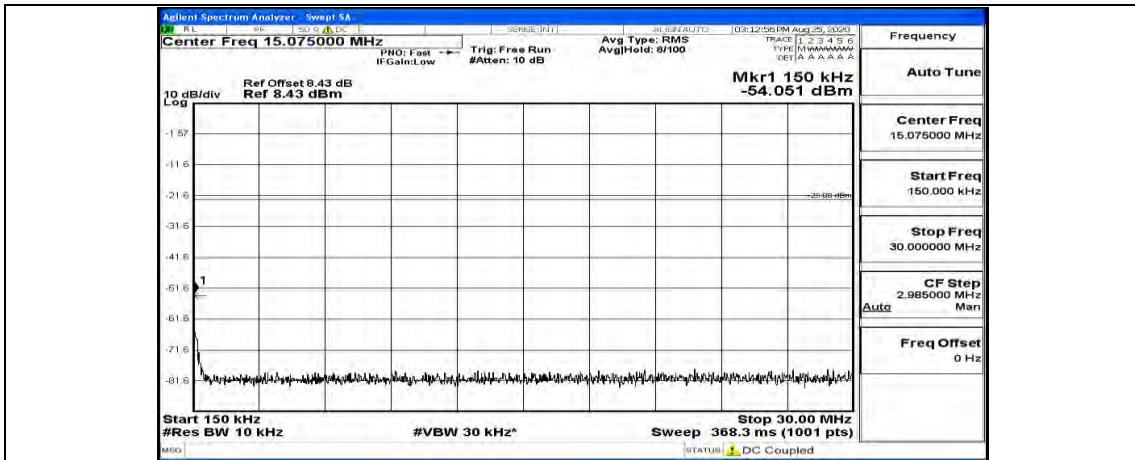
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



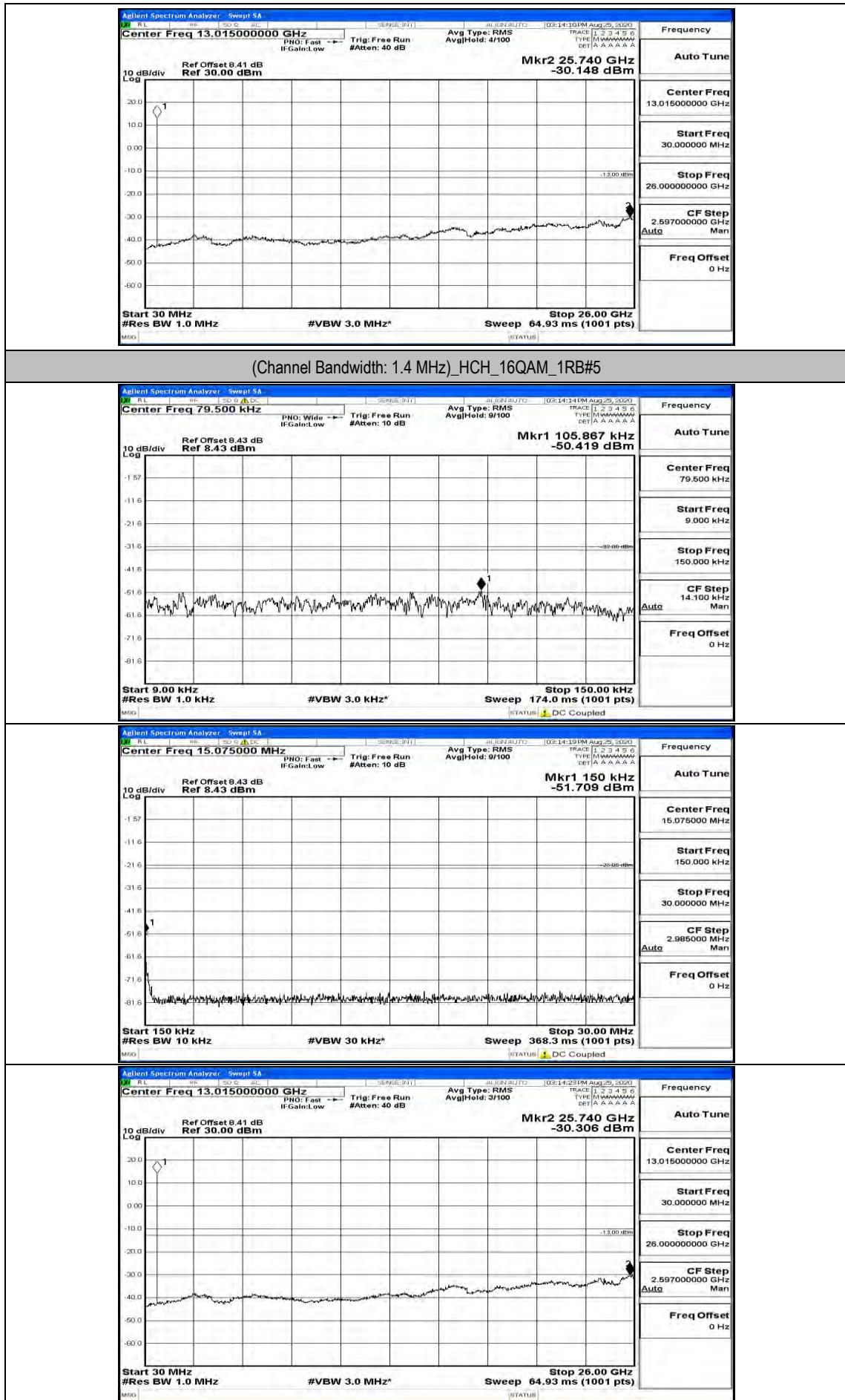












Channel Bandwidth: 3 MHz

