

Appendix D: Test Data for LTE Band 5

Product Name: Tablet
Trade Mark: LAVA & XOLO
Test Model: T71

Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

D.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.80	23.26	PASS
		1	3	23.77	23.26	PASS
		1	5	23.63	23.18	PASS
		3	0	23.79	23.24	PASS
		3	2	23.76	22.91	PASS
		3	3	23.43	22.50	PASS
		6	0	22.95	21.64	PASS
	MCH	1	0	23.72	22.60	PASS
		1	3	24.04	22.63	PASS
		1	5	23.90	22.65	PASS
		3	0	23.79	22.41	PASS
		3	2	23.81	22.75	PASS
		3	3	23.84	22.67	PASS
		6	0	22.79	21.99	PASS
	HCH	1	0	24.39	23.59	PASS
		1	3	24.39	23.71	PASS
		1	5	24.26	23.56	PASS
		3	0	24.28	23.48	PASS
		3	2	24.29	23.49	PASS
		3	3	24.20	23.43	PASS
		6	0	23.33	22.38	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.44	22.71	PASS
		1	7	23.56	22.85	PASS
		1	14	23.75	23.06	PASS
		8	0	23.00	21.85	PASS
		8	4	23.13	22.20	PASS
		8	7	23.12	22.26	PASS
		15	0	23.09	22.27	PASS
	MCH	1	0	23.83	22.97	PASS
		1	7	24.13	23.34	PASS
		1	14	23.83	23.03	PASS
		8	0	22.95	21.92	PASS
		8	4	22.93	21.98	PASS
		8	7	23.02	21.93	PASS
		15	0	23.02	21.86	PASS
	HCH	1	0	24.22	23.95	PASS
		1	7	24.29	23.50	PASS
		1	14	24.20	23.51	PASS
		8	0	23.41	22.34	PASS
		8	4	23.44	22.38	PASS
		8	7	23.45	22.48	PASS
		15	0	23.49	22.21	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.63	22.66	PASS
		1	12	23.94	22.95	PASS
		1	24	24.45	22.54	PASS
		12	0	22.97	21.86	PASS
		12	6	23.05	22.03	PASS
		12	13	22.97	21.98	PASS
		25	0	22.99	22.17	PASS
	MCH	1	0	23.81	22.22	PASS
		1	12	24.24	22.91	PASS
		1	24	23.99	22.28	PASS
		12	0	22.74	21.80	PASS
		12	6	22.90	21.81	PASS
		12	13	22.90	21.81	PASS
		25	0	22.86	21.92	PASS
	HCH	1	0	23.80	22.52	PASS
		1	12	24.54	22.97	PASS
		1	24	24.13	22.86	PASS
		12	0	23.05	22.12	PASS
		12	6	23.19	22.19	PASS
		12	13	23.20	22.03	PASS
		25	0	23.20	22.36	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.28	22.54	PASS
		1	24	24.60	24.29	PASS
		1	49	23.55	22.80	PASS
		25	0	22.94	21.96	PASS
		25	12	23.02	21.92	PASS
		25	25	22.82	21.79	PASS
		50	0	22.91	21.87	PASS
	MCH	1	0	23.77	23.36	PASS
		1	24	24.19	23.57	PASS
		1	49	23.83	23.30	PASS
		25	0	22.92	21.85	PASS
		25	12	23.03	21.92	PASS
		25	25	23.05	21.83	PASS
		50	0	22.88	21.95	PASS
	HCH	1	0	24.18	23.64	PASS
		1	24	24.33	24.23	PASS
		1	49	23.51	23.00	PASS
		25	0	23.22	22.30	PASS
		25	12	23.17	22.09	PASS
		25	25	23.37	22.30	PASS
		50	0	23.21	22.23	PASS

D.2 Peak-to-Average Ratio

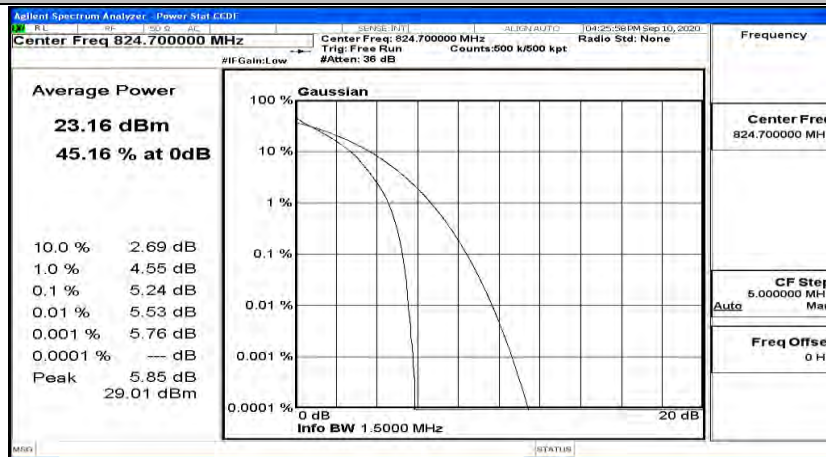
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.24	<13	PASS
	MCH	5.25	<13	PASS
	HCH	4.73	<13	PASS
16QAM	LCH	6.07	<13	PASS
	MCH	6.20	<13	PASS
	HCH	5.65	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.26	<13	PASS
	MCH	5.28	<13	PASS
	HCH	4.88	<13	PASS
16QAM	LCH	6.16	<13	PASS
	MCH	6.22	<13	PASS
	HCH	5.81	<13	PASS

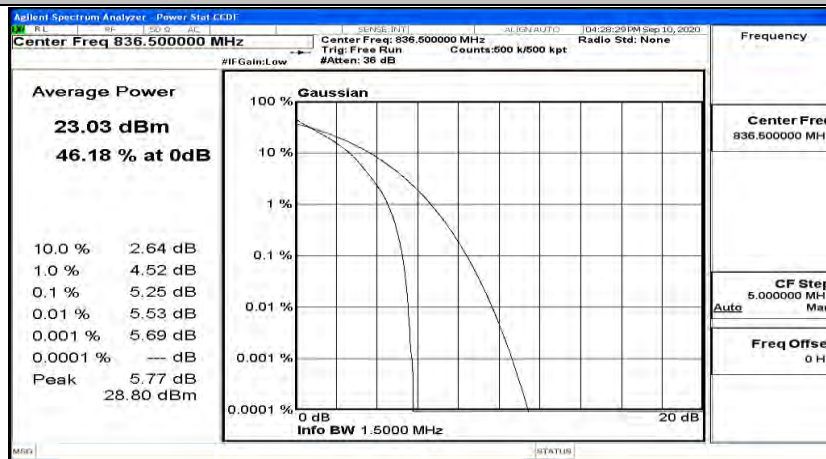
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.14	<13	PASS
	MCH	5.22	<13	PASS
	HCH	4.91	<13	PASS
16QAM	LCH	5.95	<13	PASS
	MCH	6.08	<13	PASS
	HCH	5.69	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.01	<13	PASS
	MCH	5.25	<13	PASS
	HCH	4.98	<13	PASS
16QAM	LCH	5.91	<13	PASS
	MCH	6.03	<13	PASS
	HCH	5.82	<13	PASS

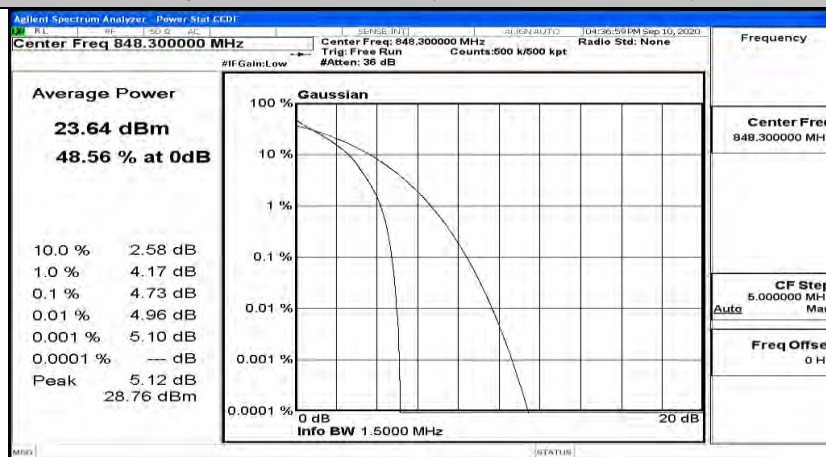
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



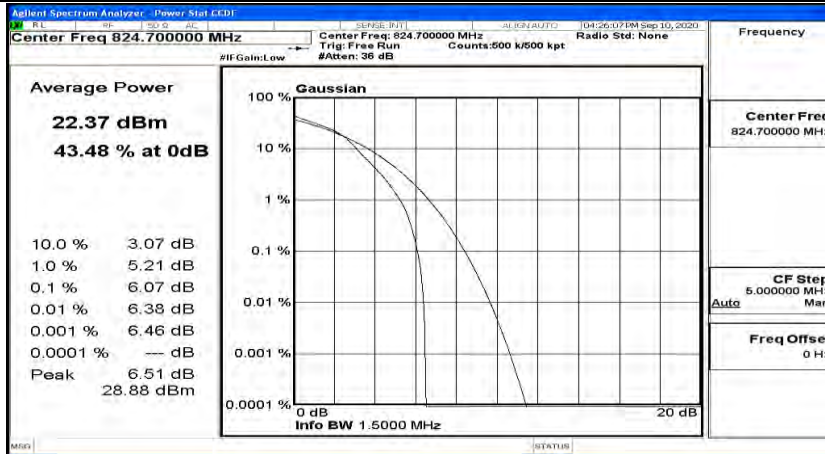
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



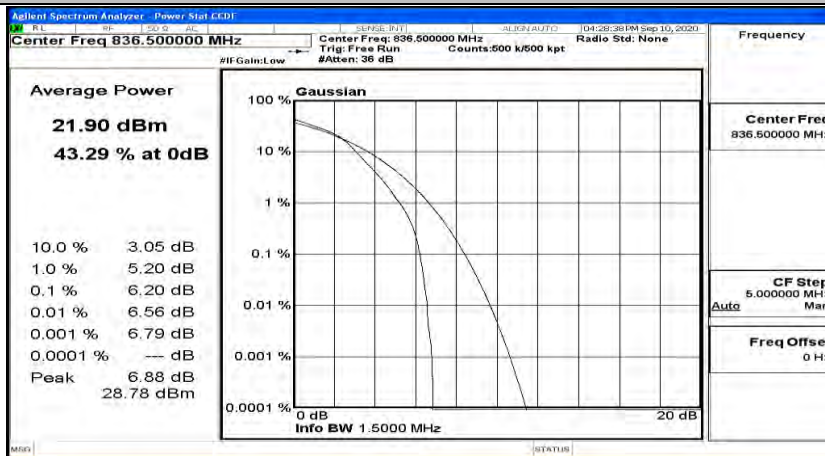
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



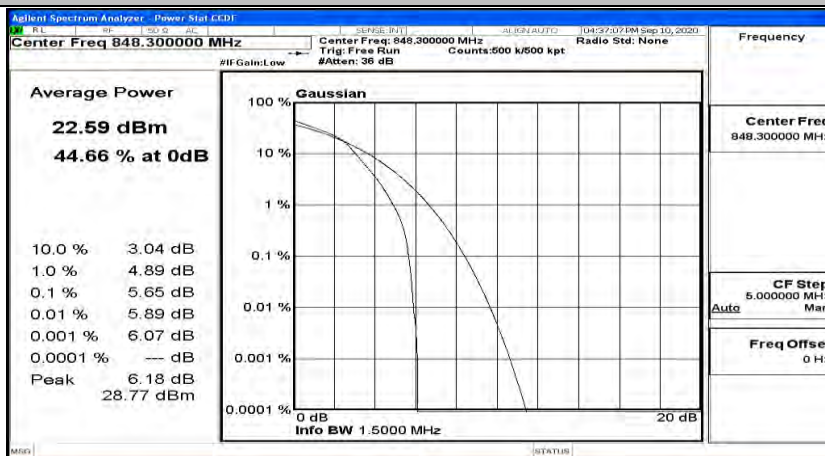
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



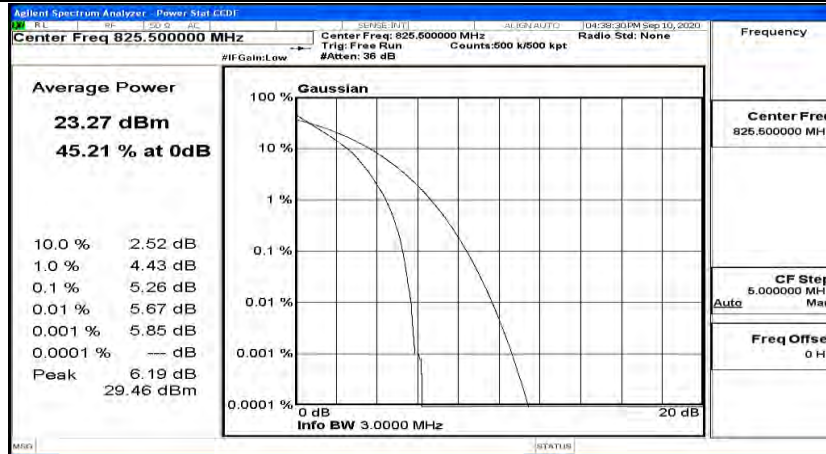
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



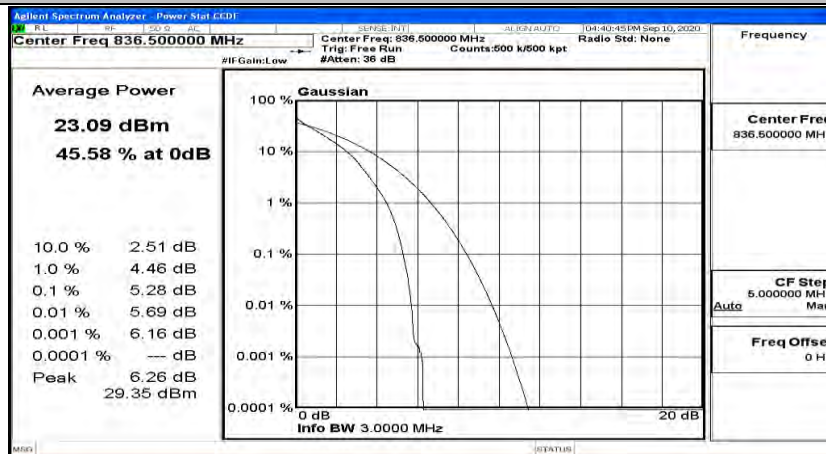
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



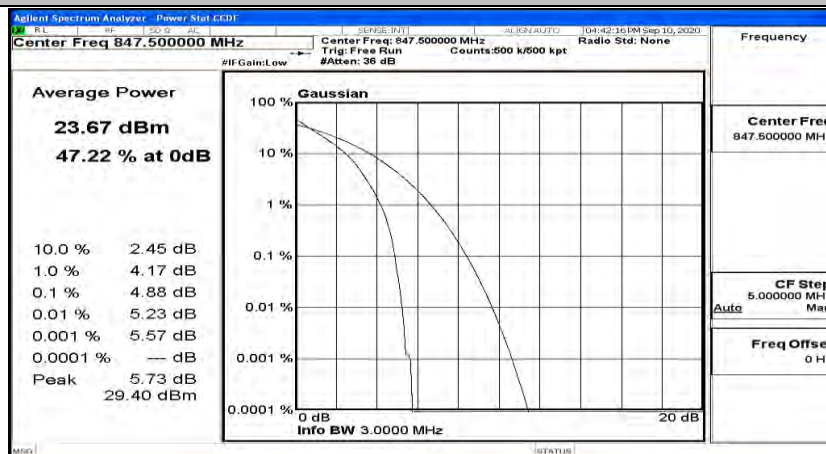
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



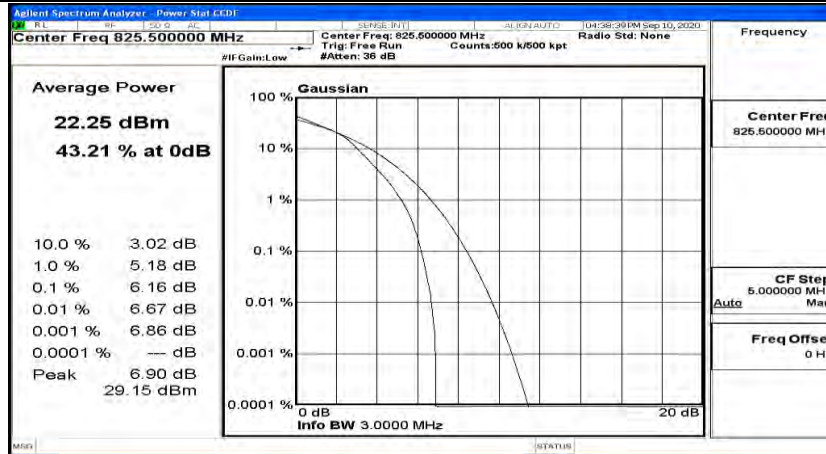
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



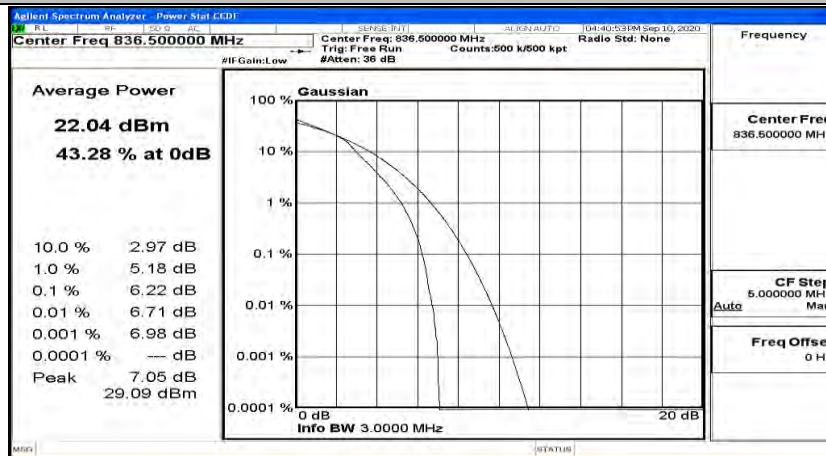
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



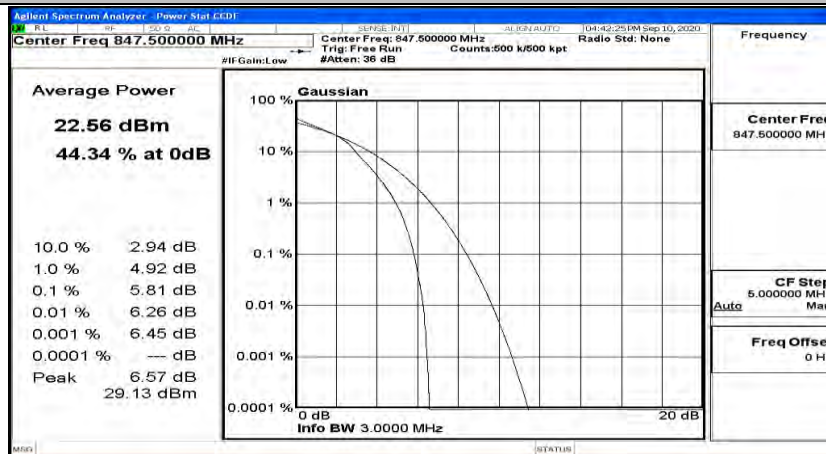
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



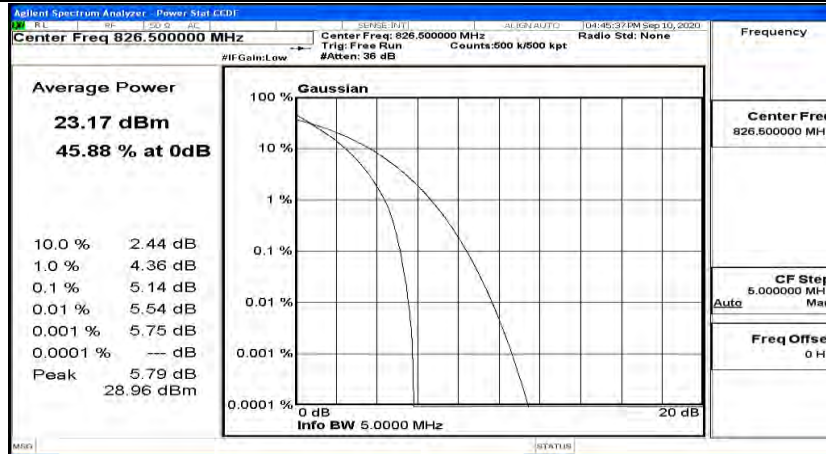
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



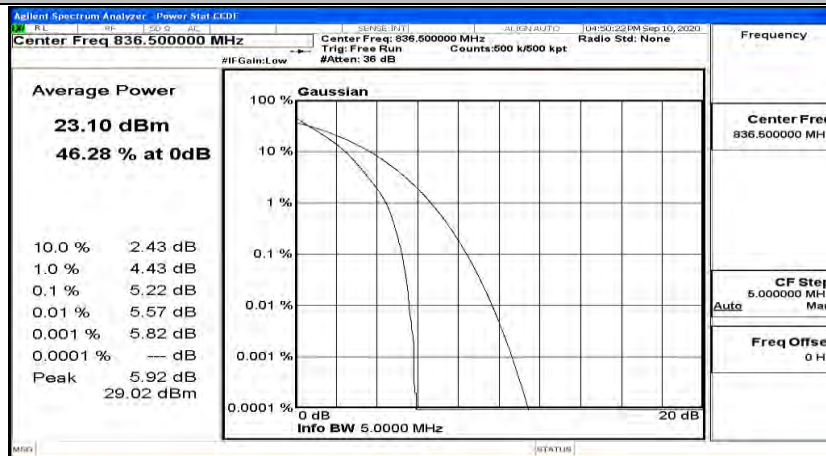
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



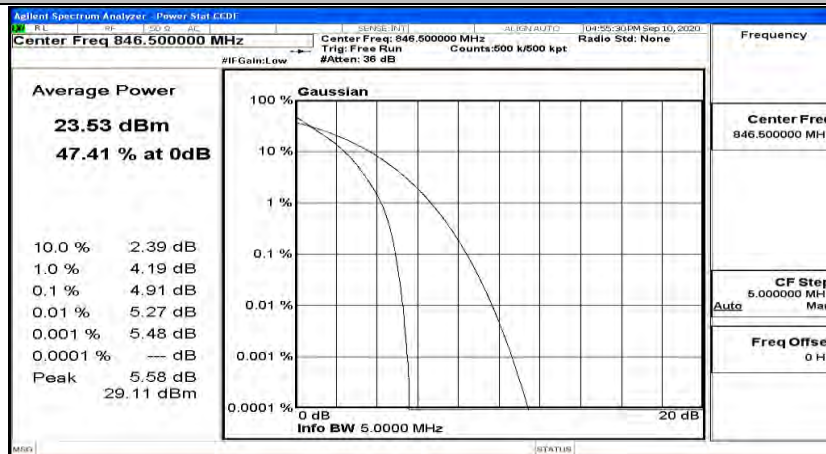
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



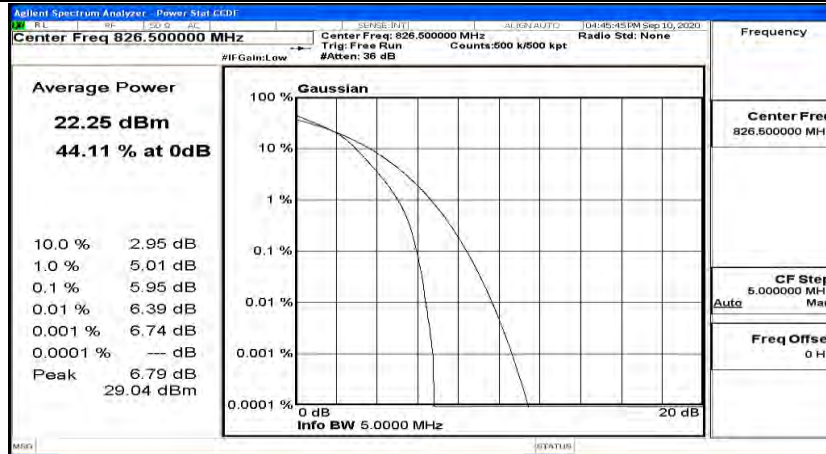
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



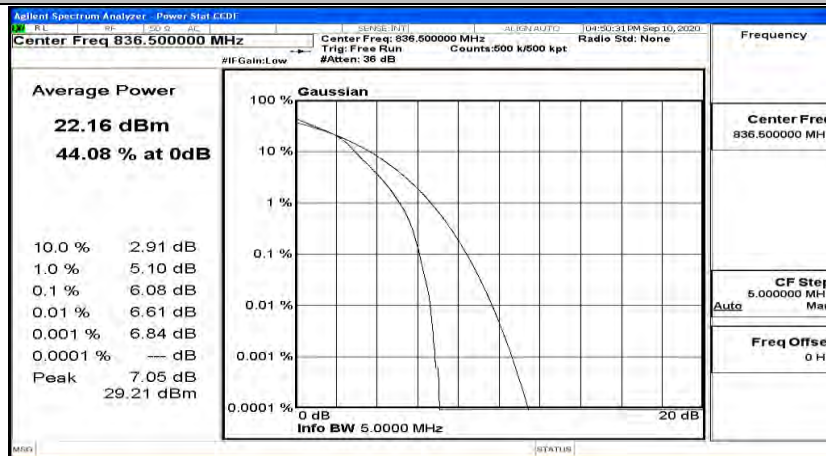
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



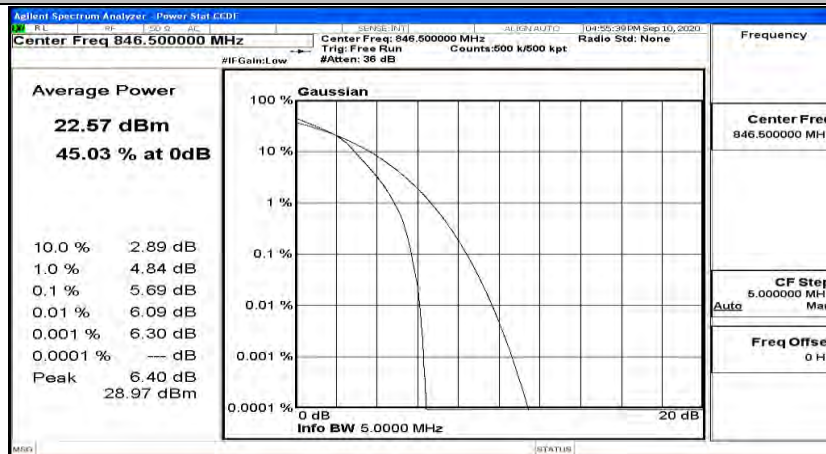
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



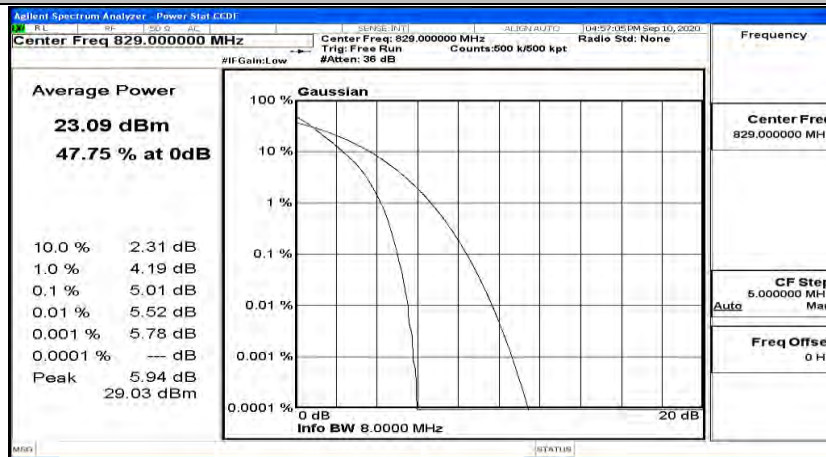
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



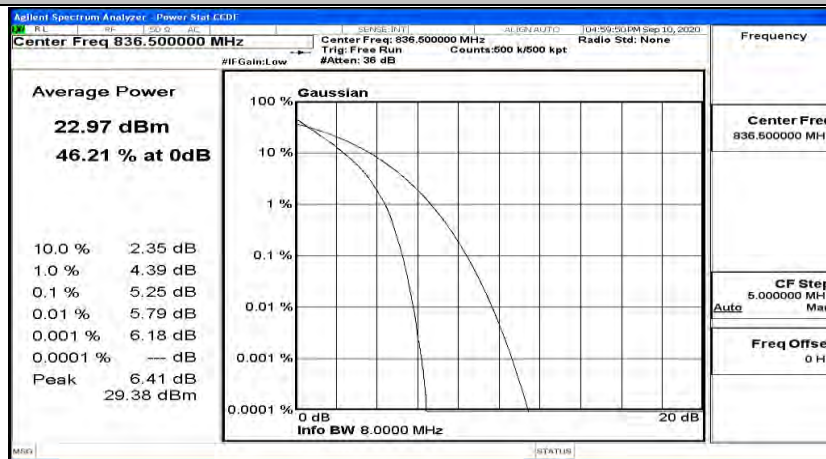
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



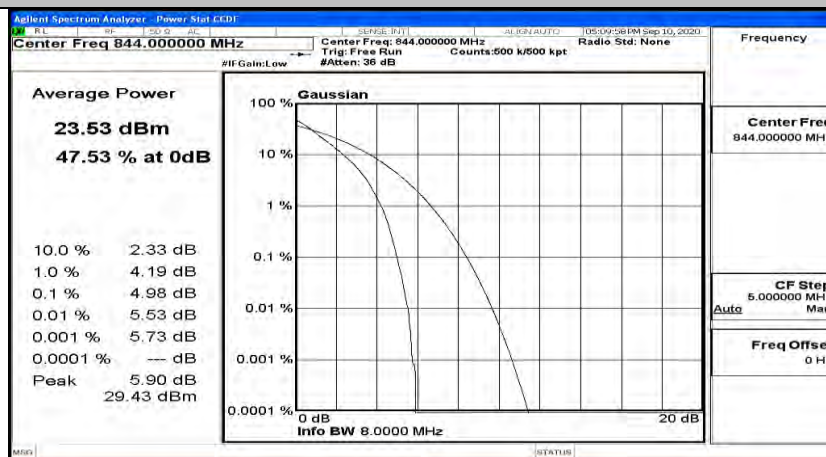
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



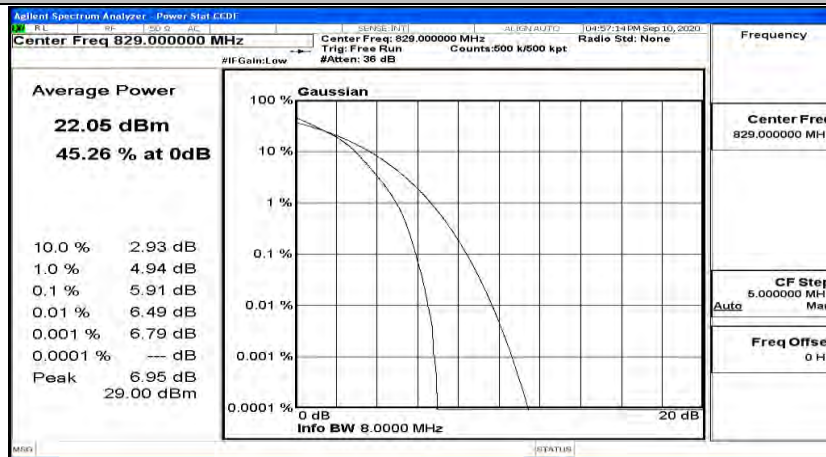
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



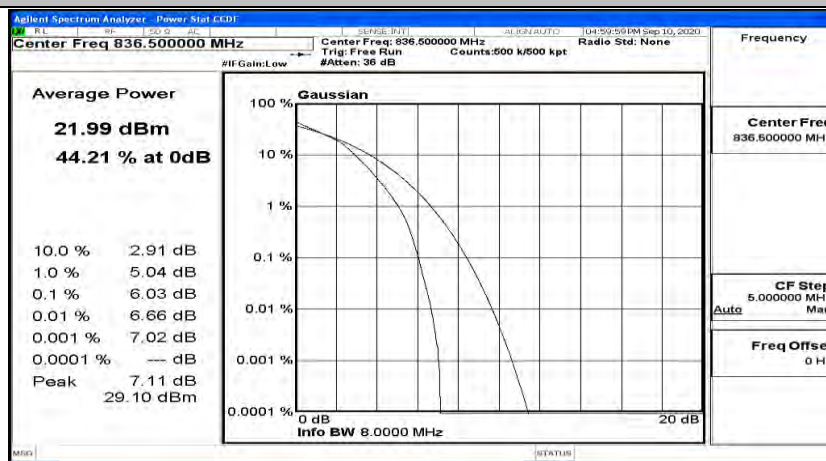
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



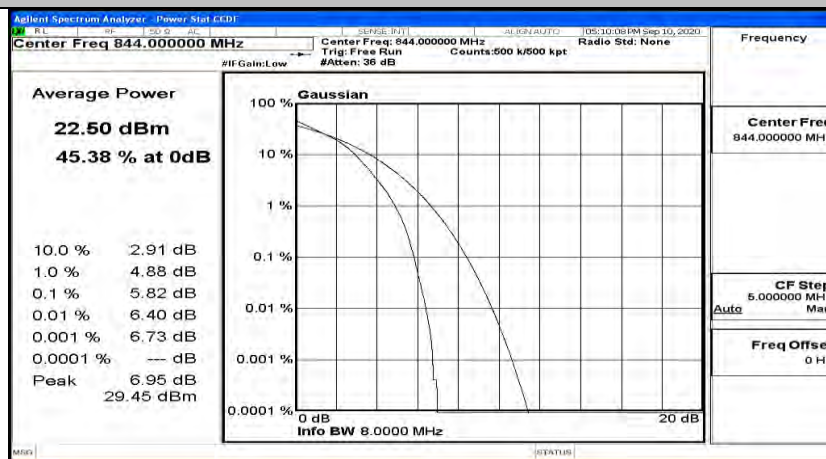
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



D.3 26dB Bandwidth and Occupied Bandwidth

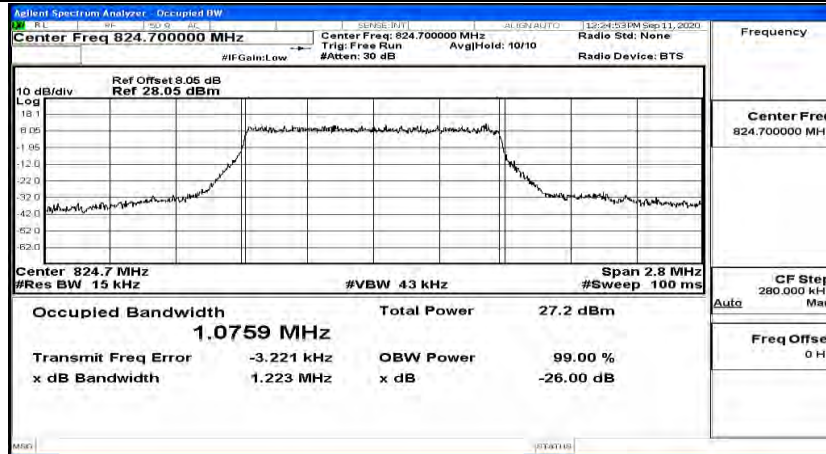
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0759	1.223	PASS
	MCH	1.0783	1.215	PASS
	HCH	1.0772	1.236	PASS
16QAM	LCH	1.0799	1.232	PASS
	MCH	1.0783	1.230	PASS
	HCH	1.0799	1.241	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6866	2.897	PASS
	MCH	2.6858	2.891	PASS
	HCH	2.6803	2.867	PASS
16QAM	LCH	2.6838	2.881	PASS
	MCH	2.6836	2.887	PASS
	HCH	2.6868	2.887	PASS

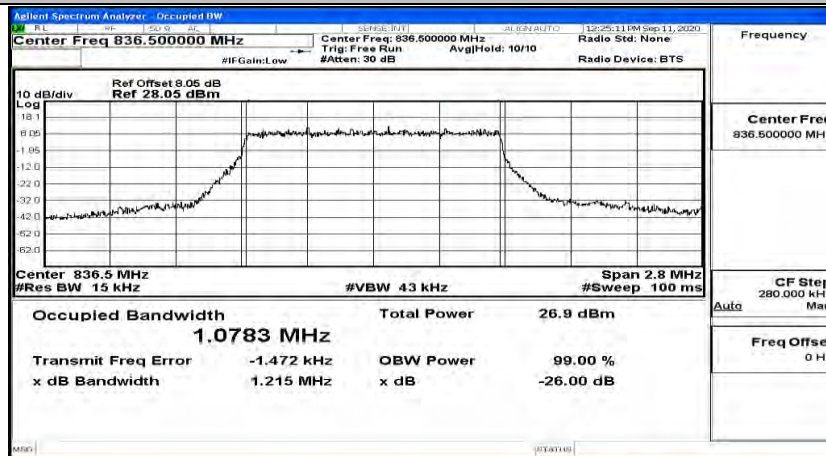
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4794	4.821	PASS
	MCH	4.4748	4.805	PASS
	HCH	4.4776	4.792	PASS
16QAM	LCH	4.4736	4.828	PASS
	MCH	4.4742	4.759	PASS
	HCH	4.4688	4.812	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9024	9.414	PASS
	MCH	8.9251	9.443	PASS
	HCH	8.9338	9.403	PASS
16QAM	LCH	8.9106	9.408	PASS
	MCH	8.9321	9.510	PASS
	HCH	8.9069	9.360	PASS

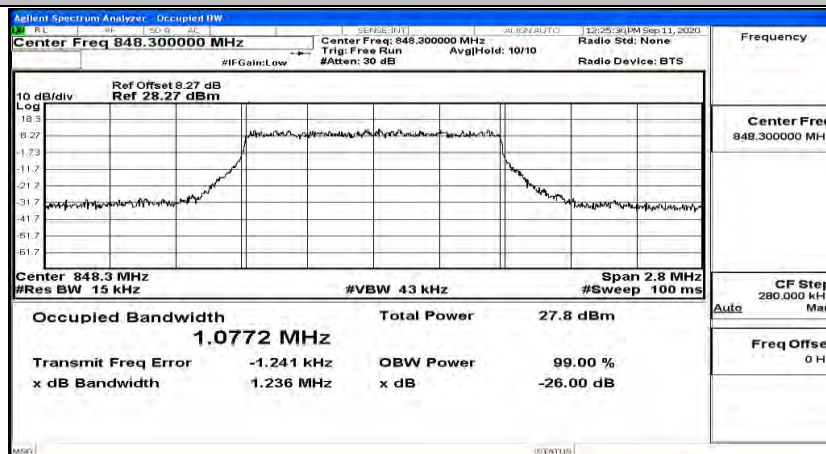
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



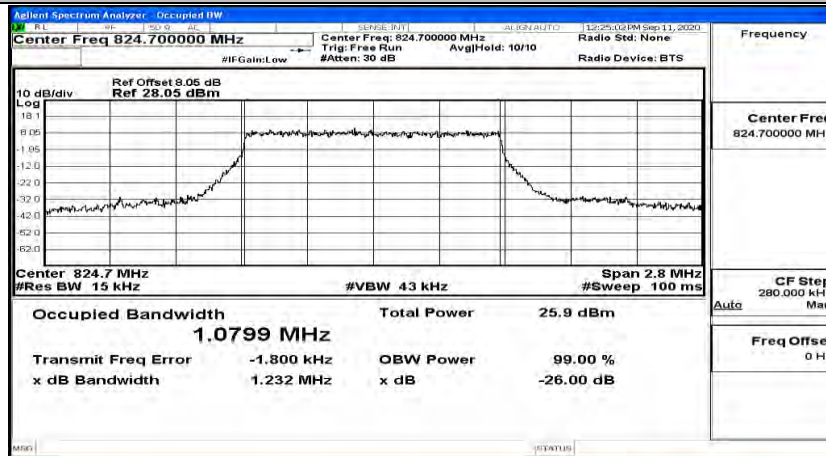
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



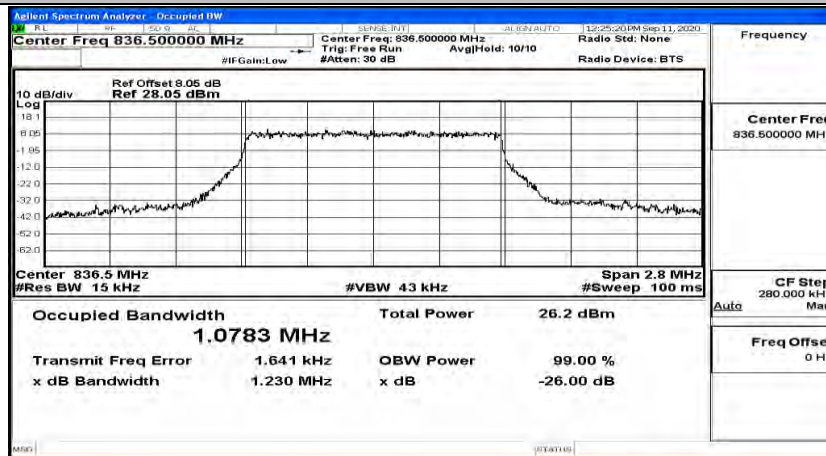
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



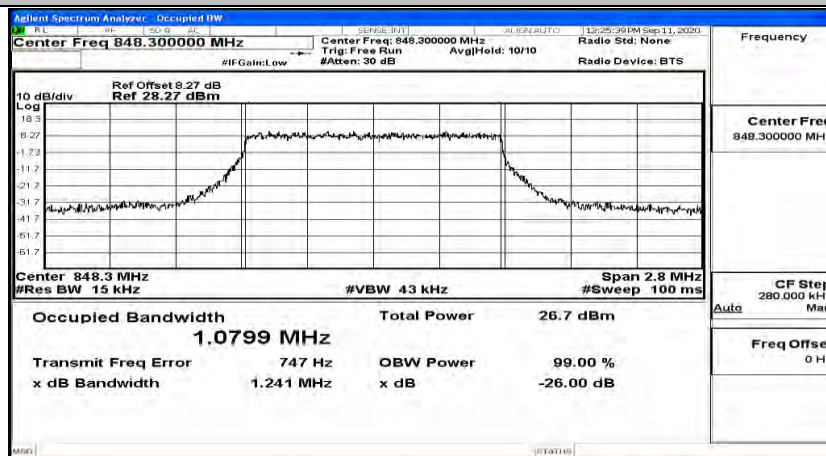
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



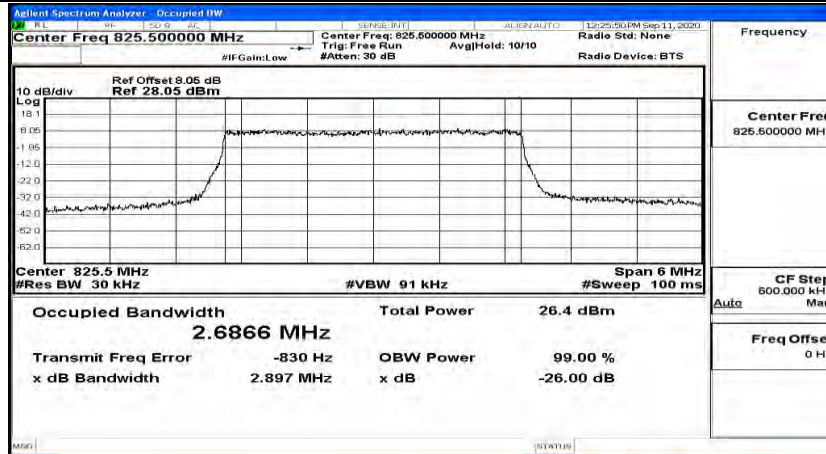
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



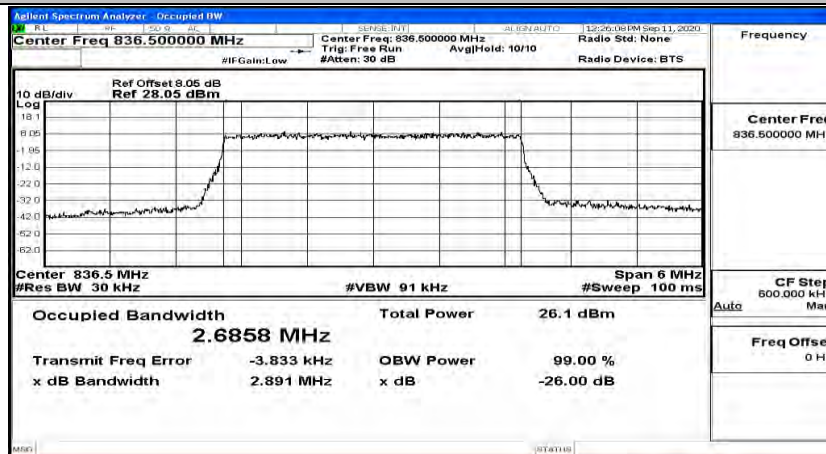
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



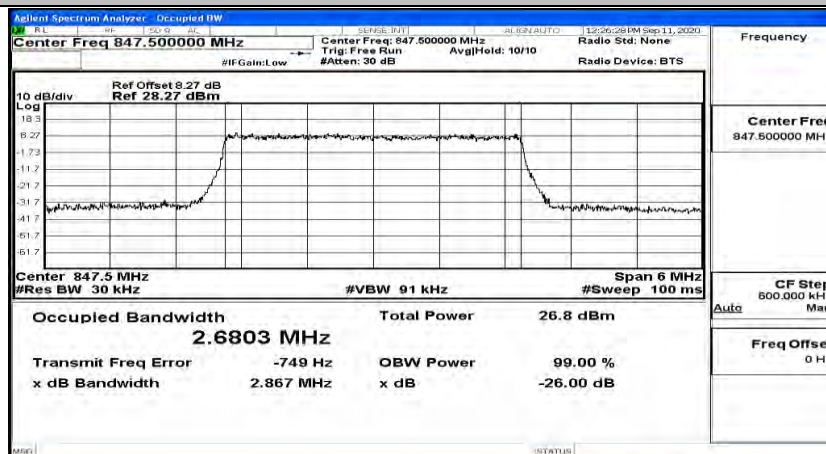
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



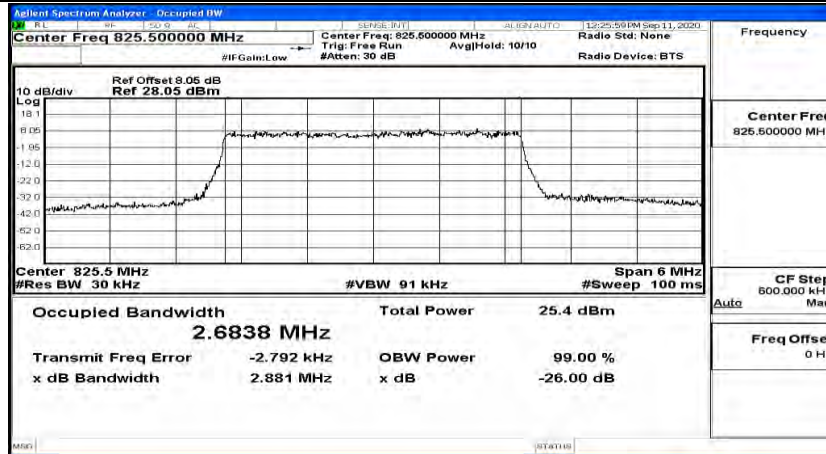
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



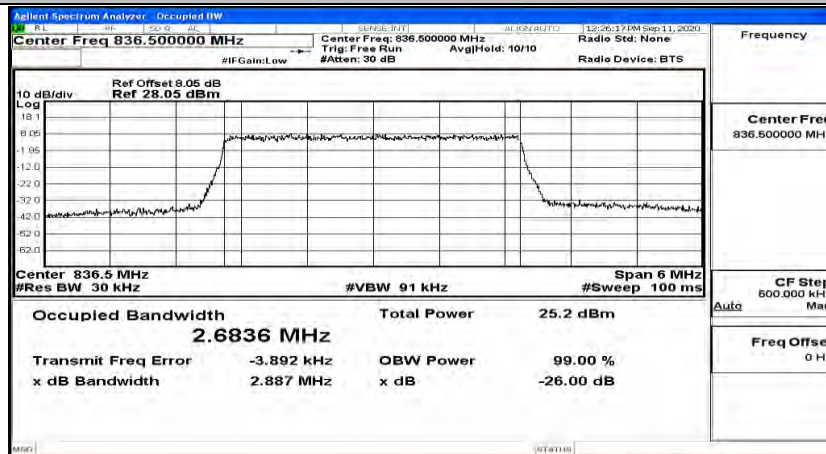
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



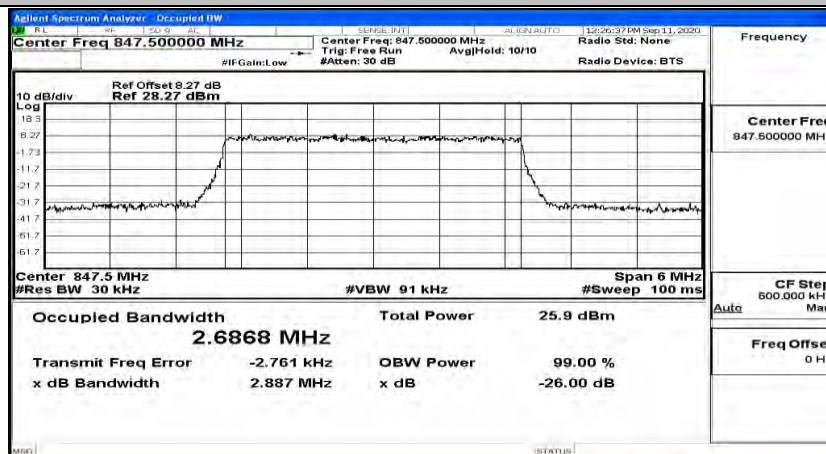
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



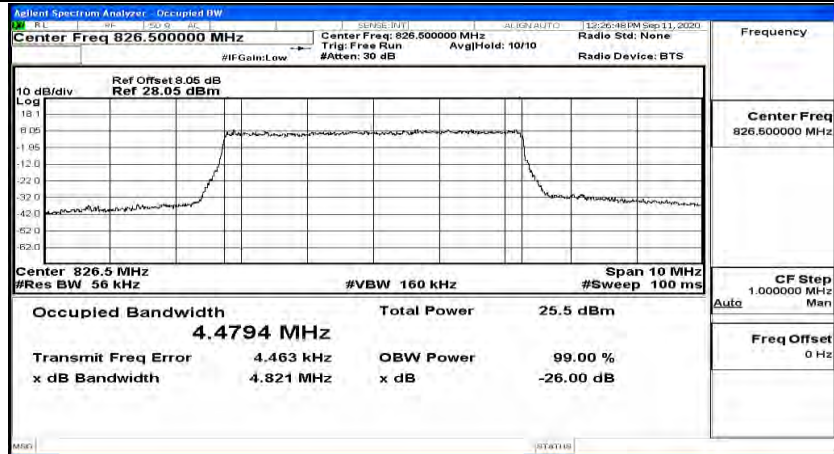
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



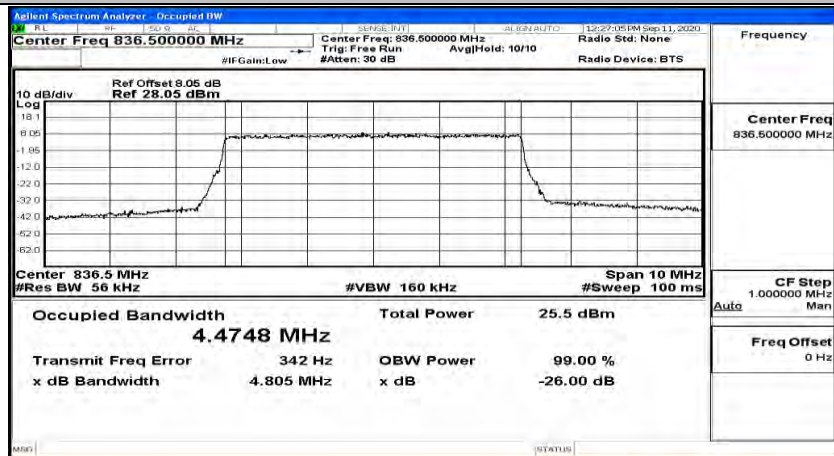
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



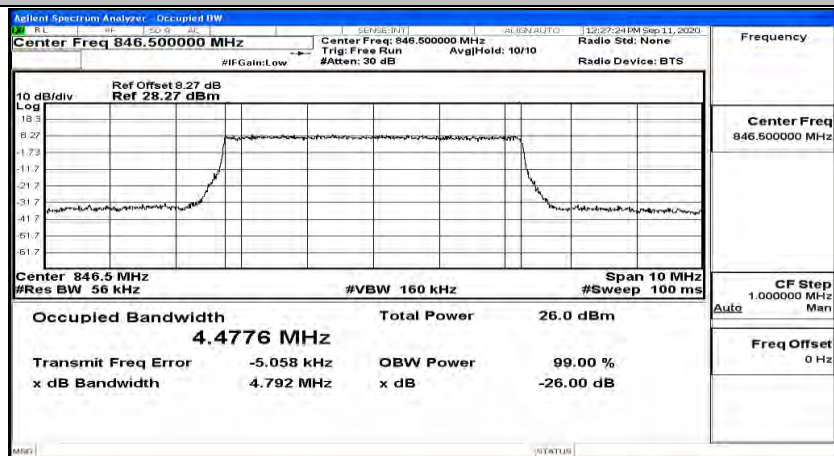
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



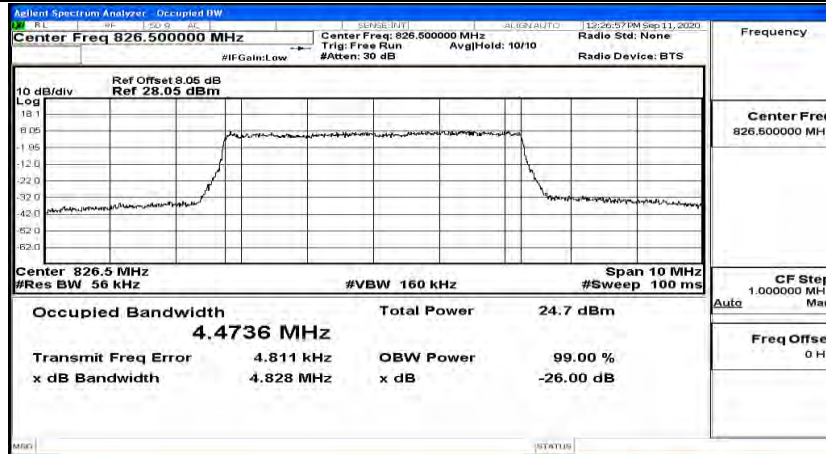
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



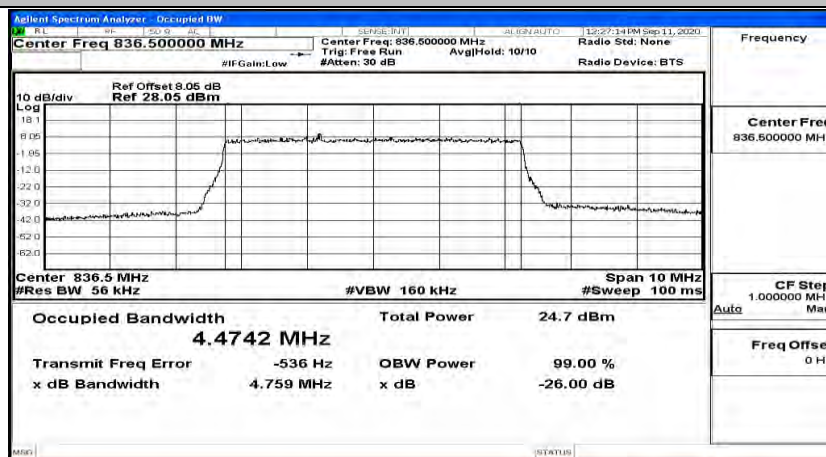
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



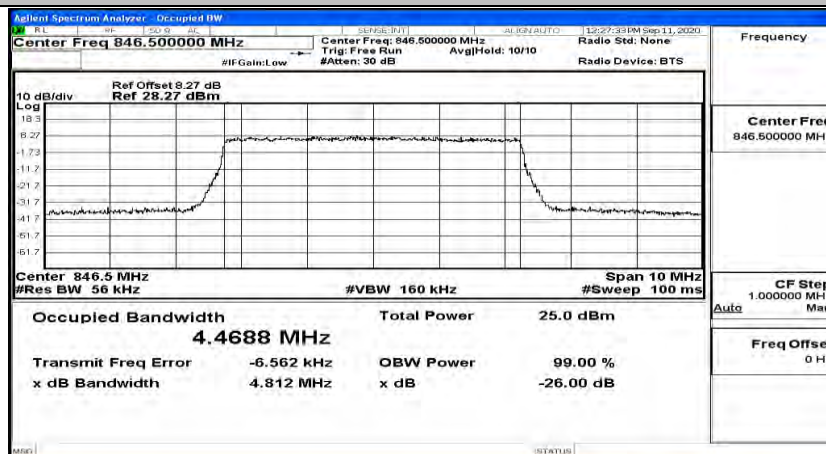
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



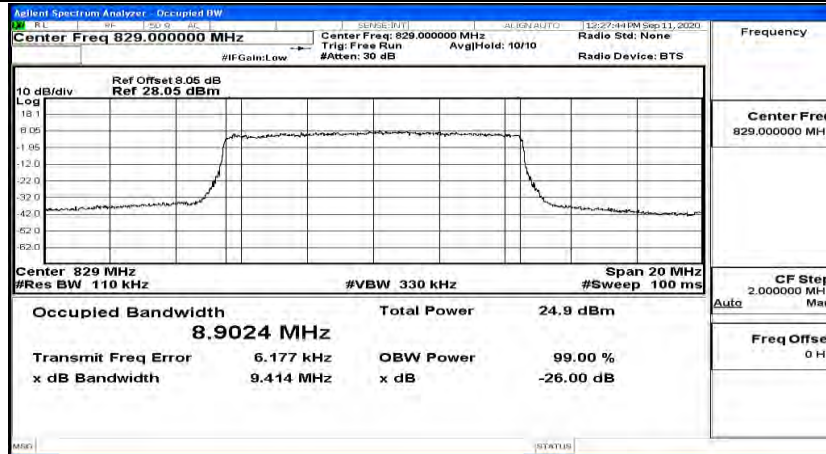
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



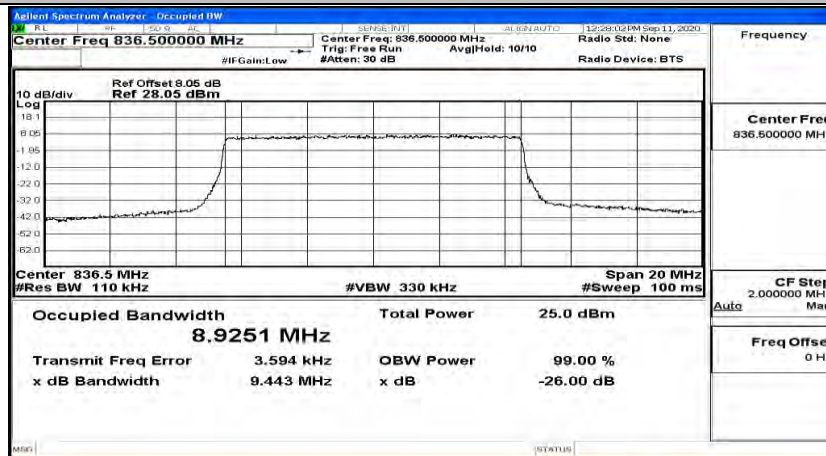
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



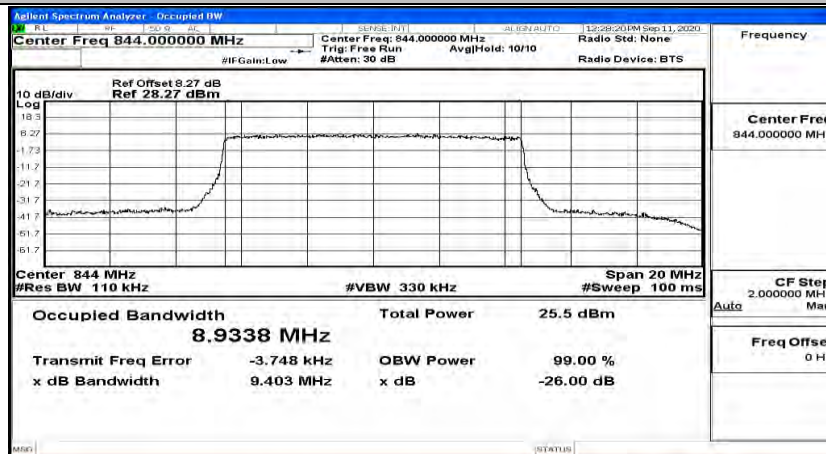
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



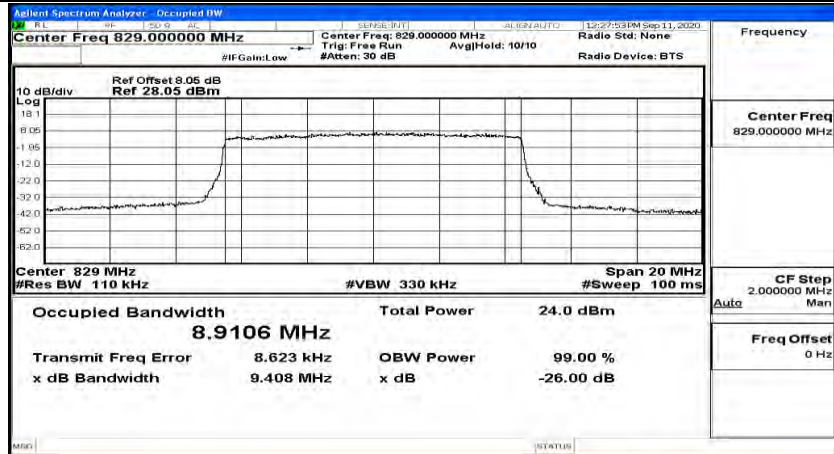
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



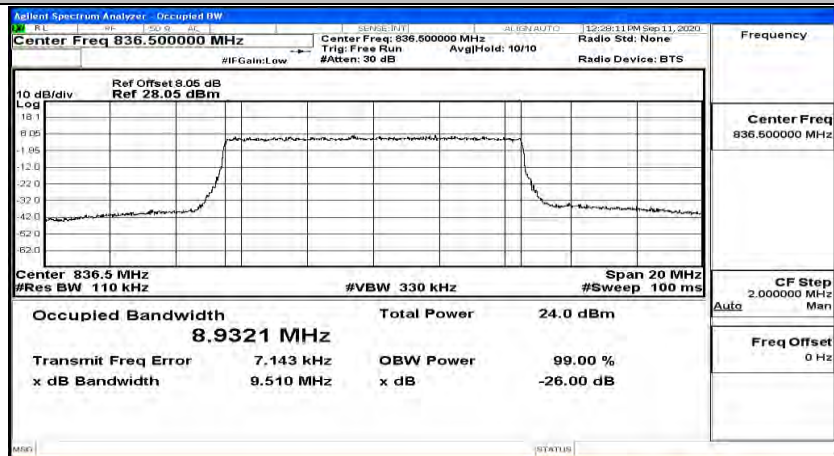
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



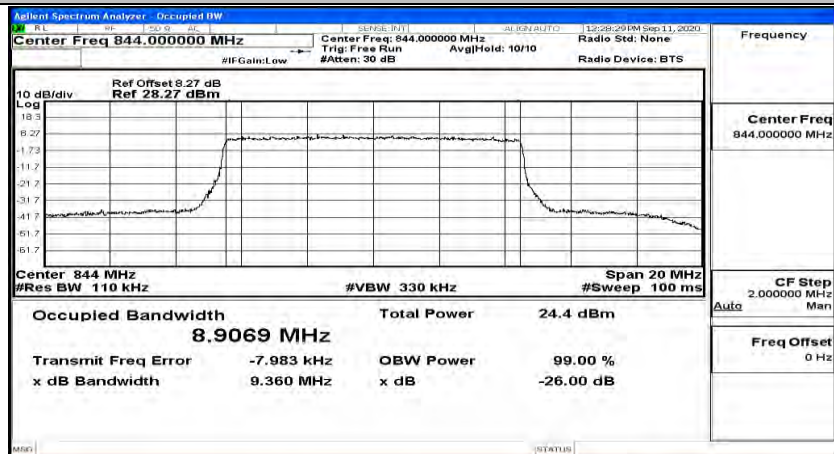
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

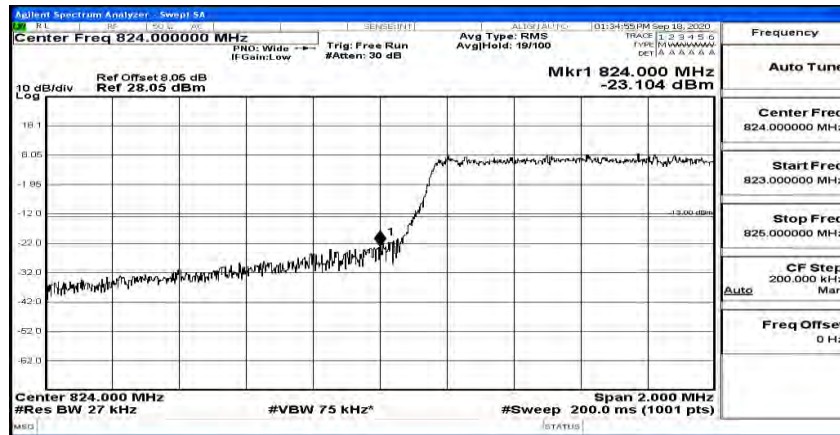


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

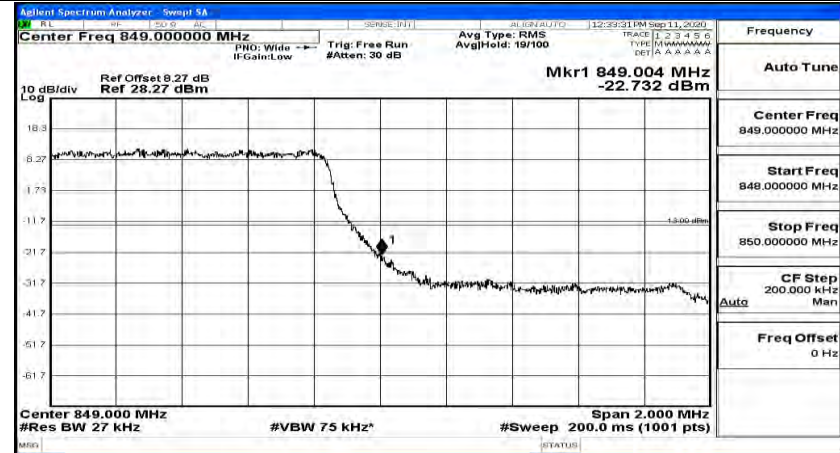


D.4 Band Edge

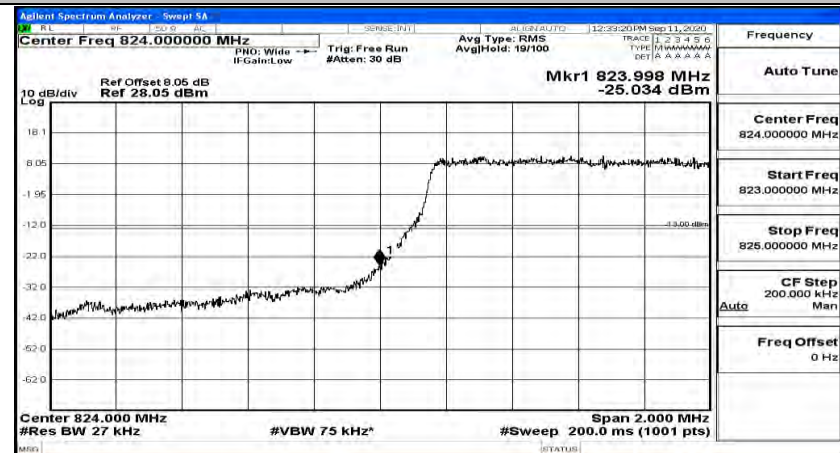
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



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



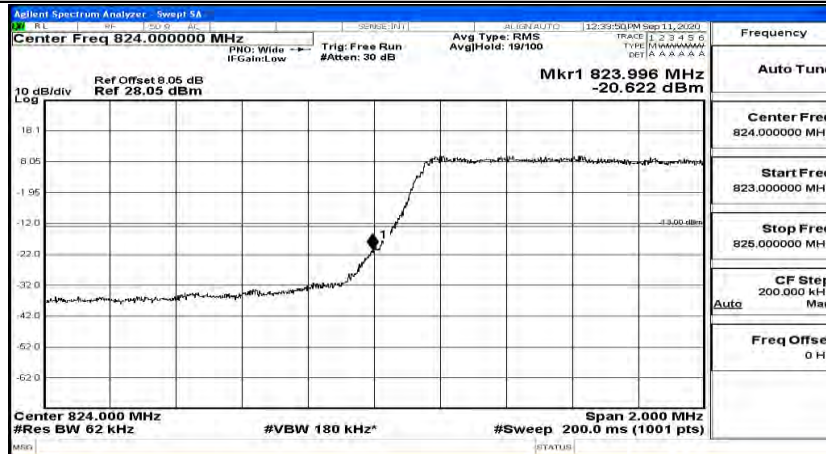
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



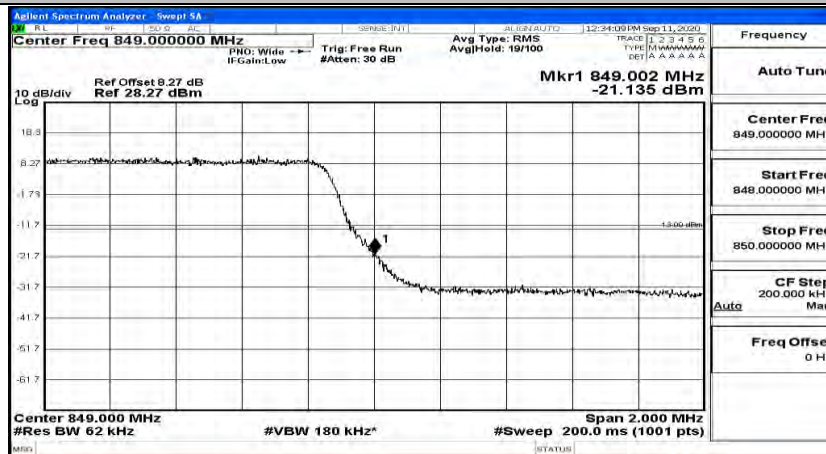
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



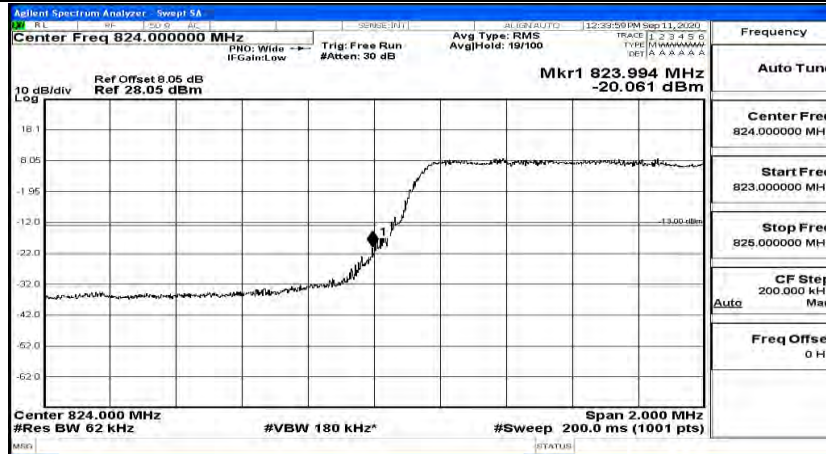
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



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



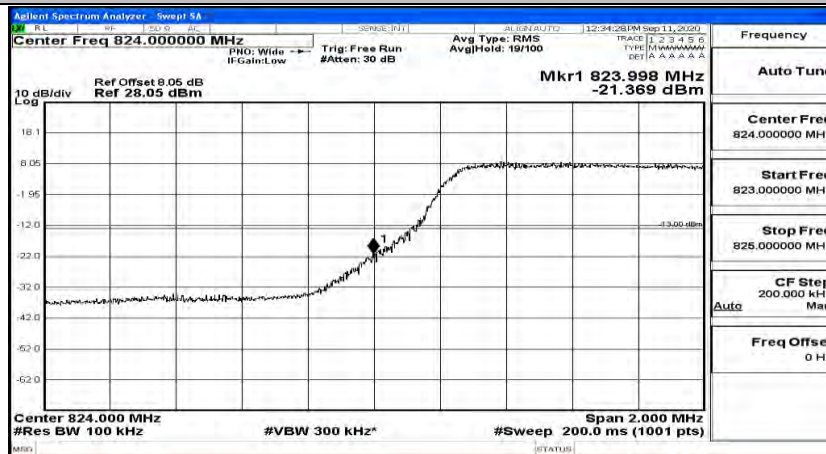
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



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



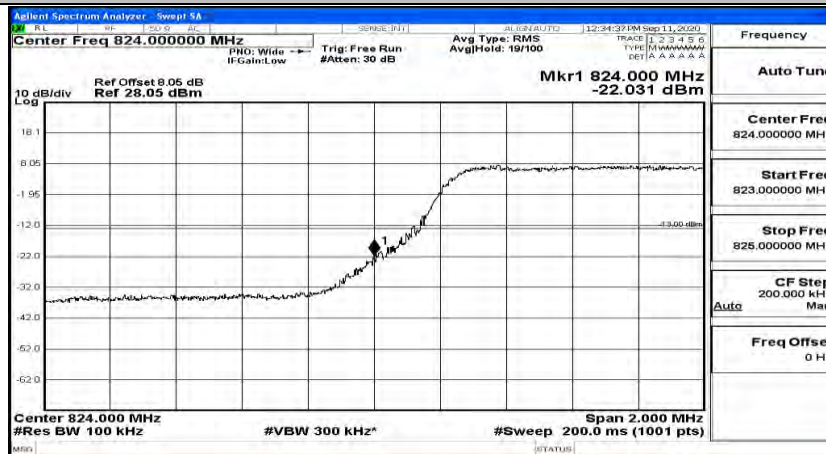
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



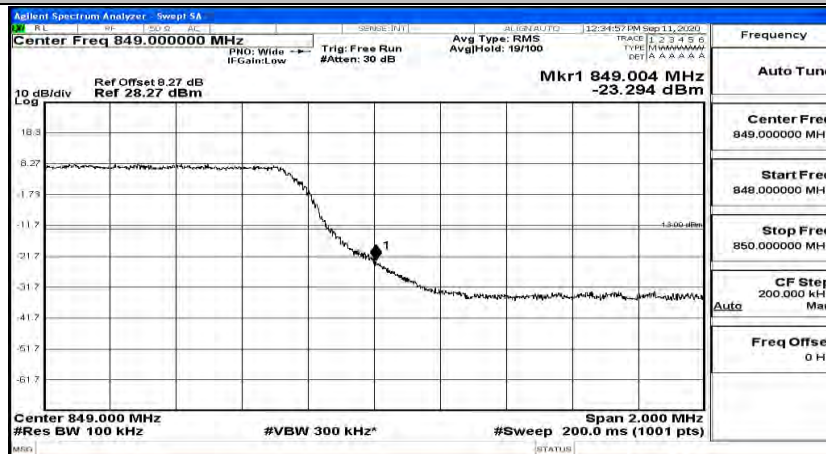
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



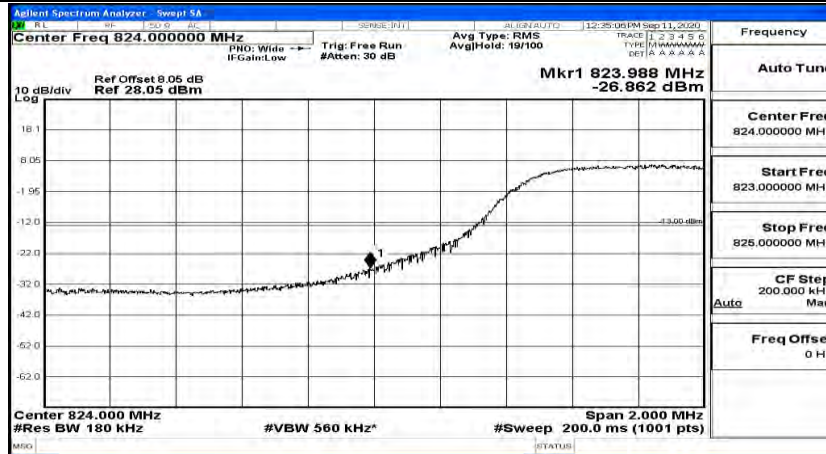
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



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



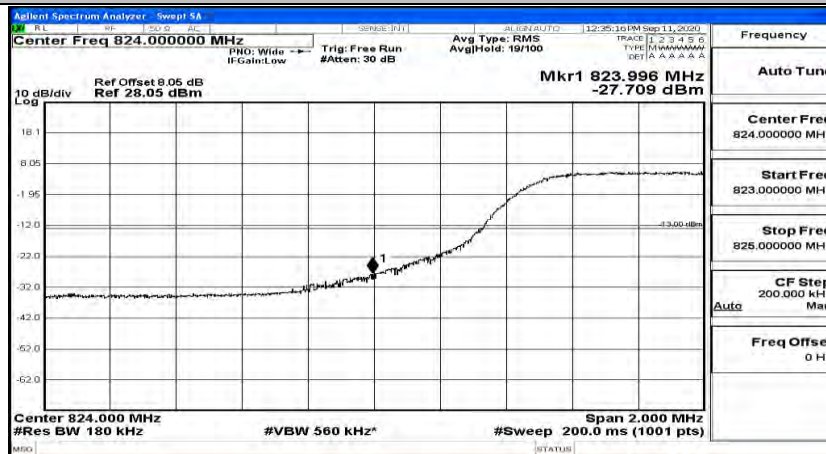
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



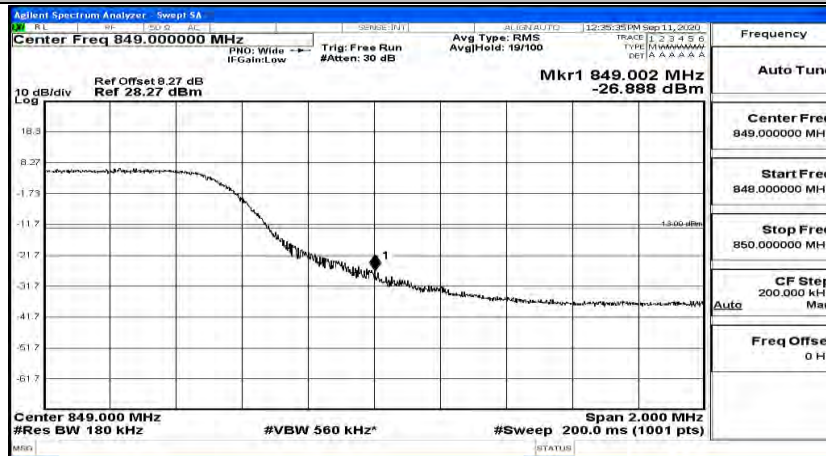
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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



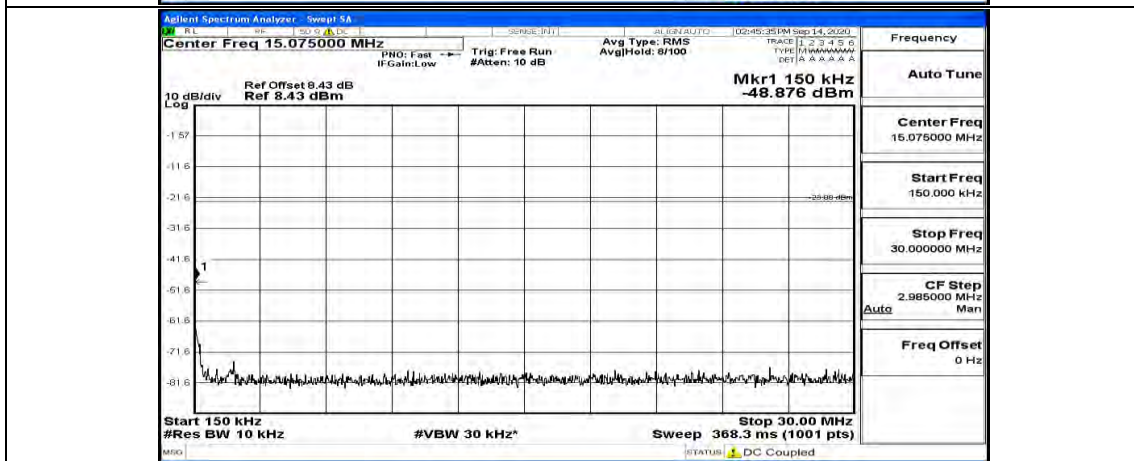
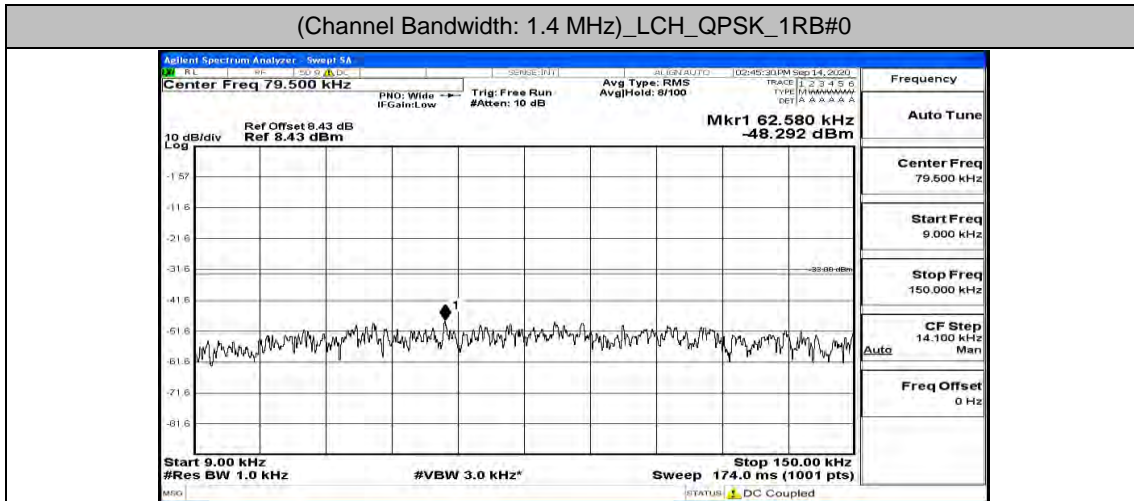
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



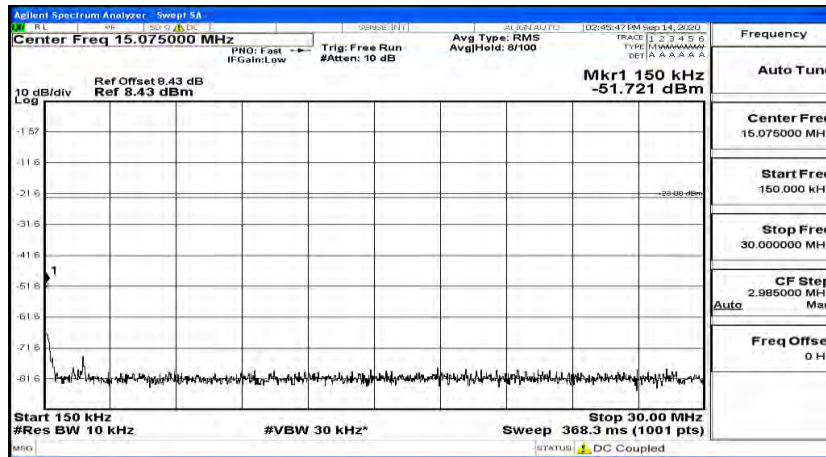
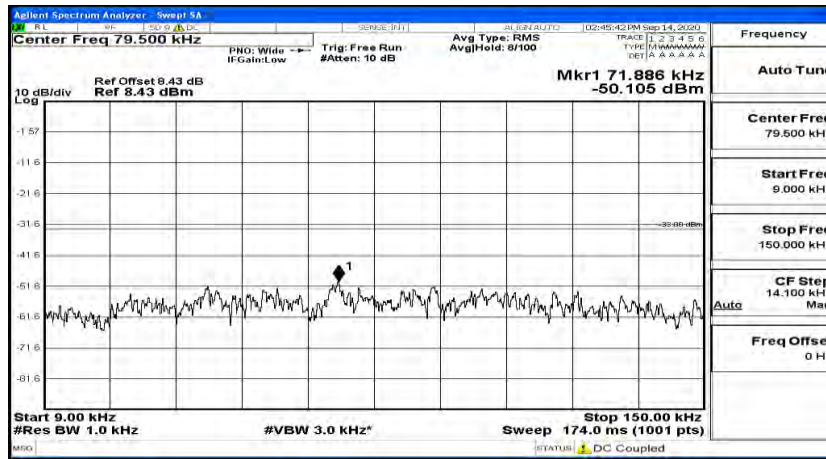
D.5 Conducted Spurious Emission

Channel Bandwidth: 1.4 MHz

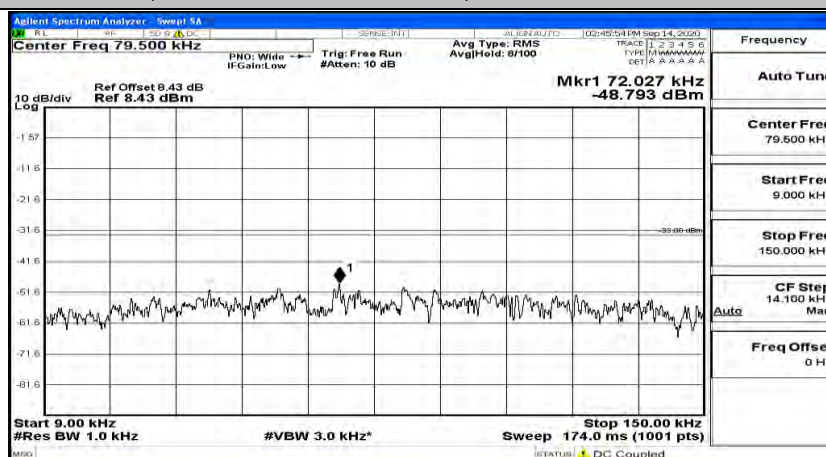
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0

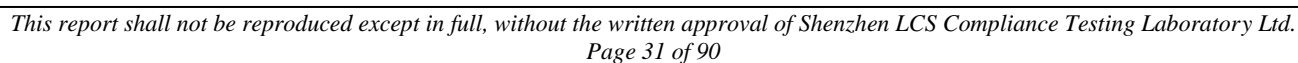


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

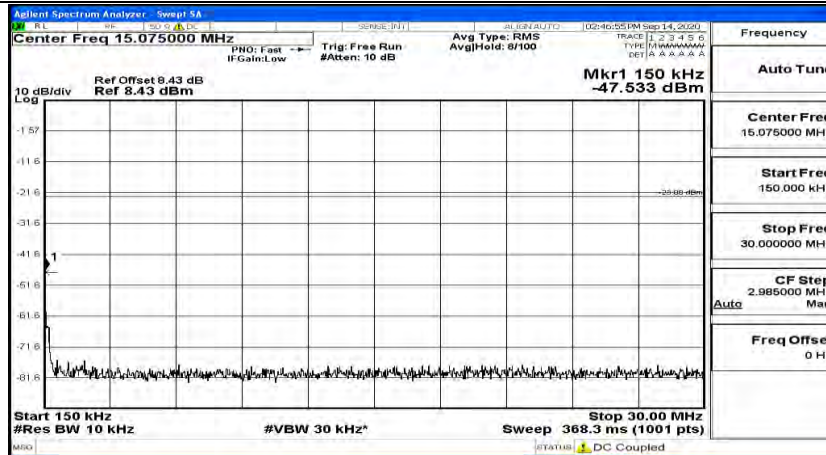
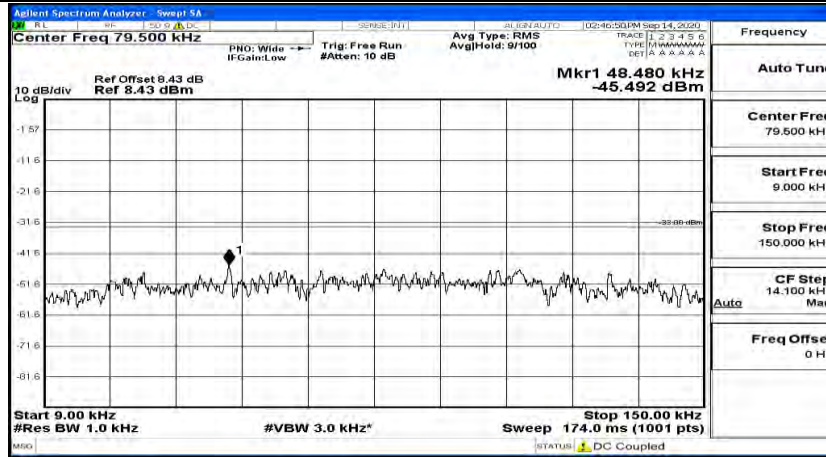


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5

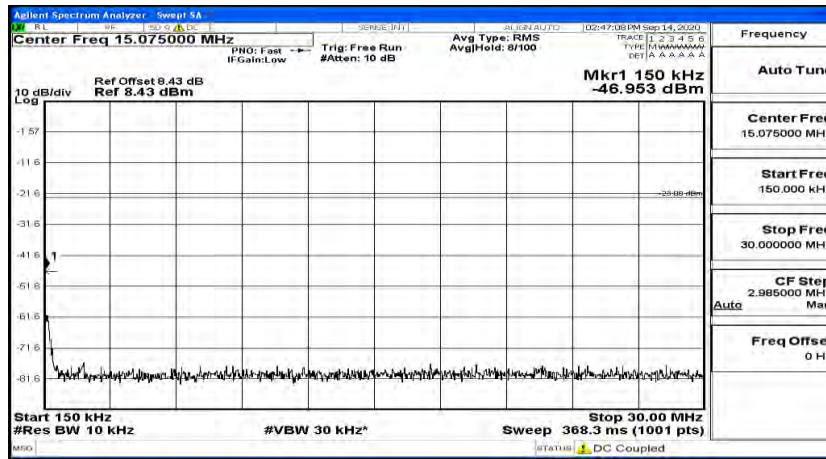
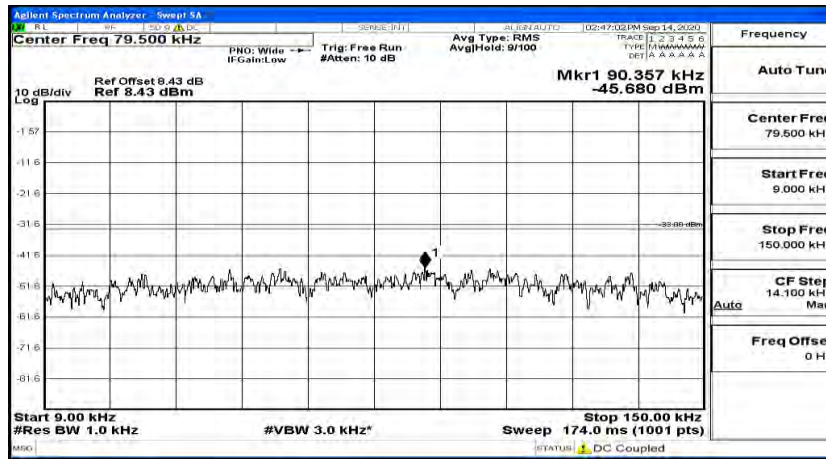




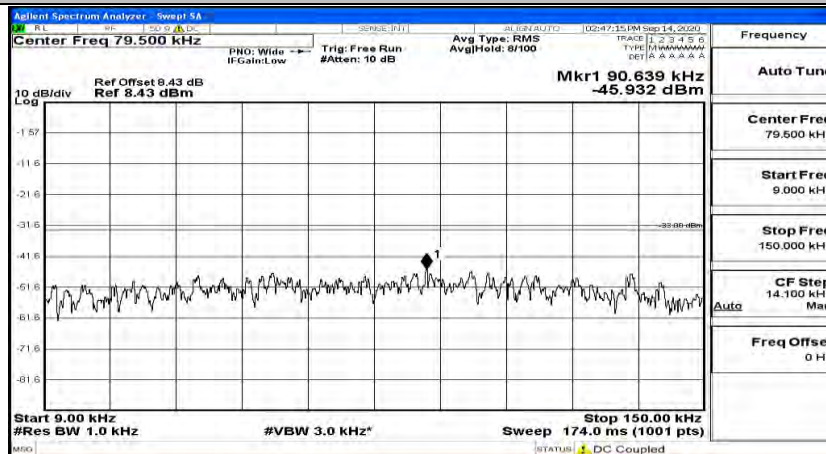
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

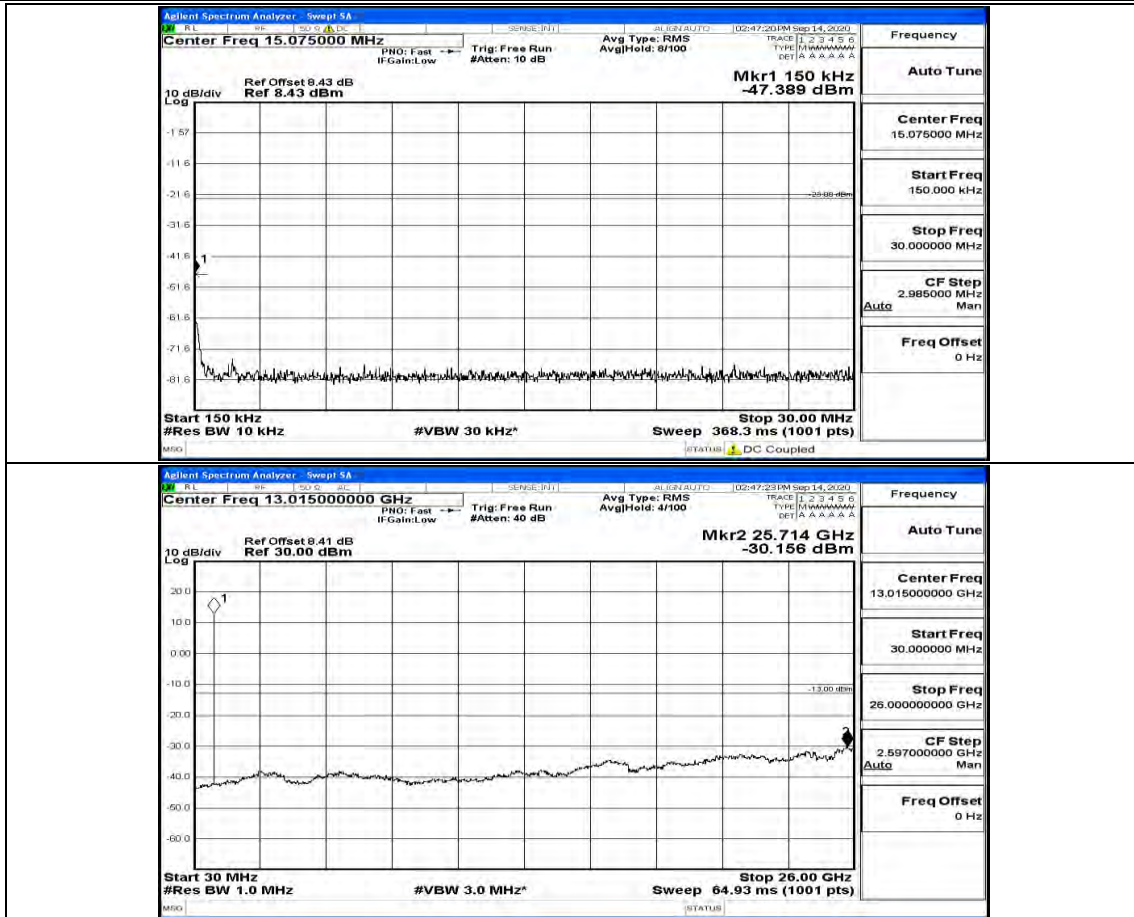


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

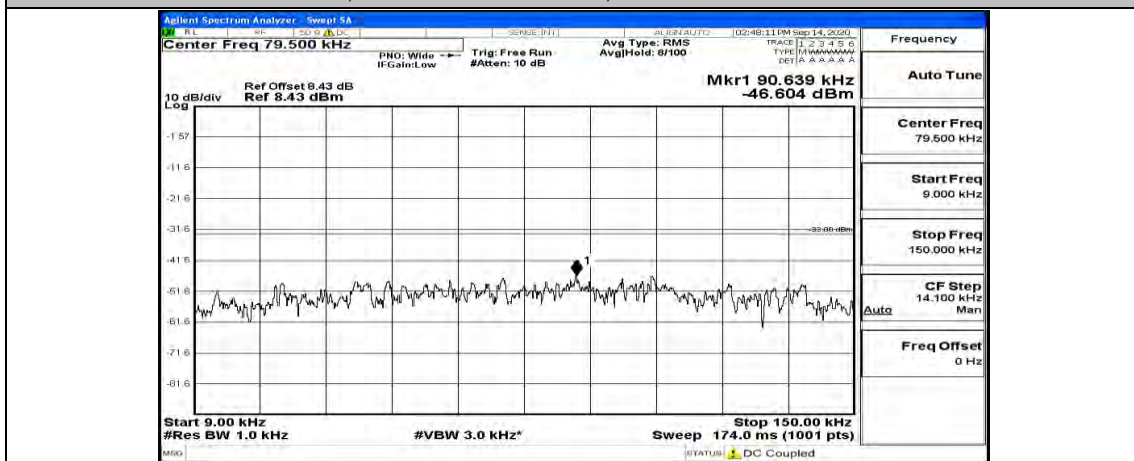


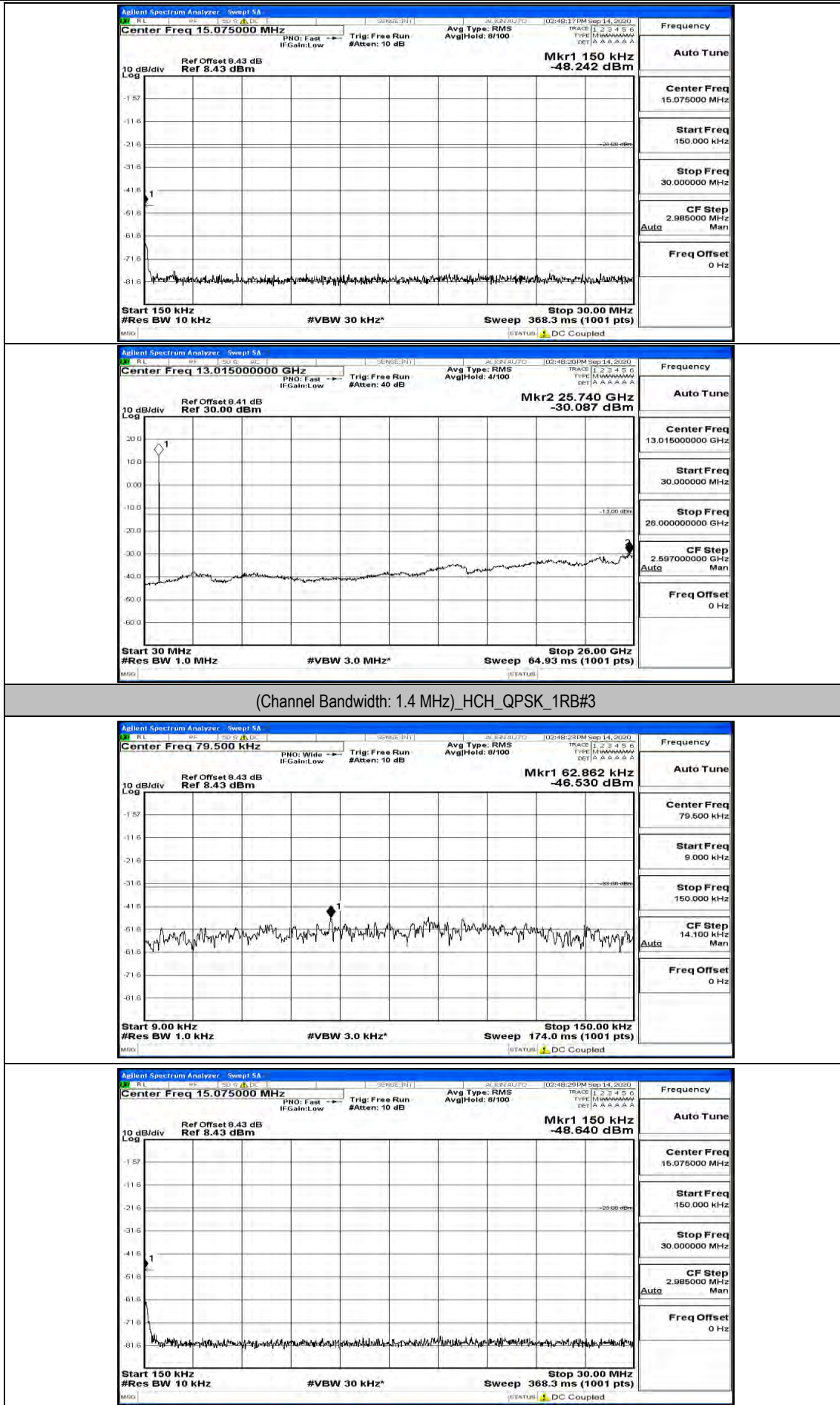
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5

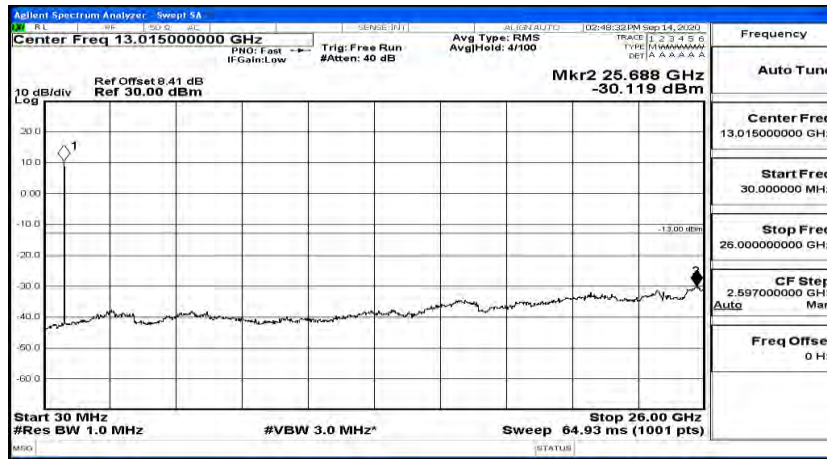




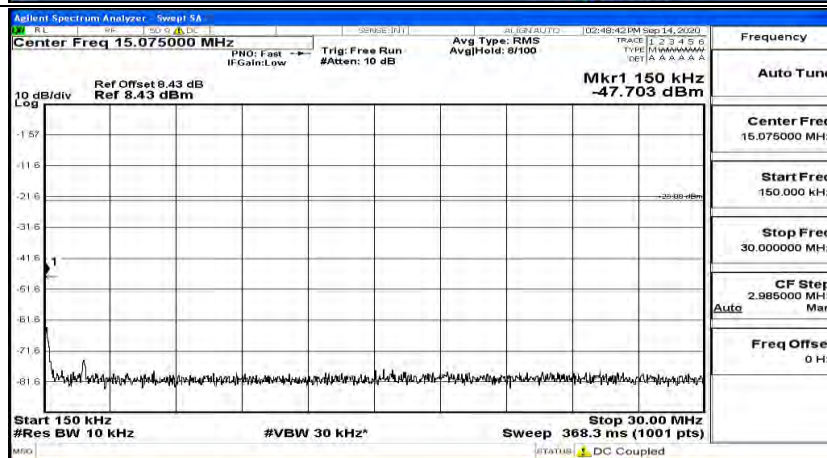
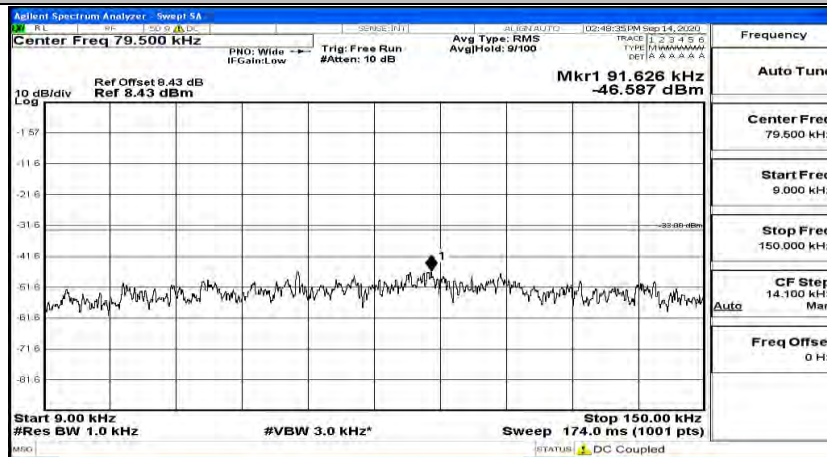
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



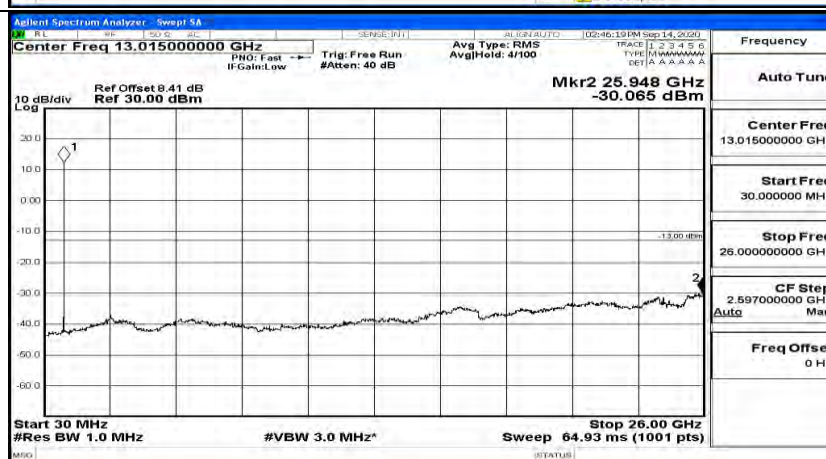
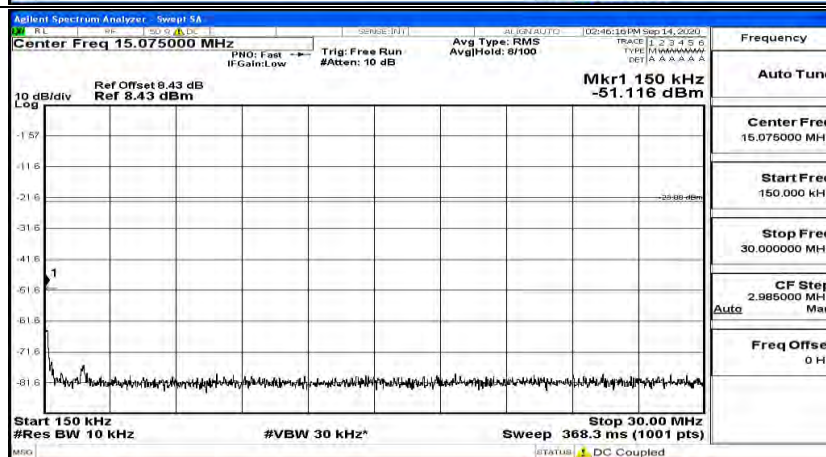
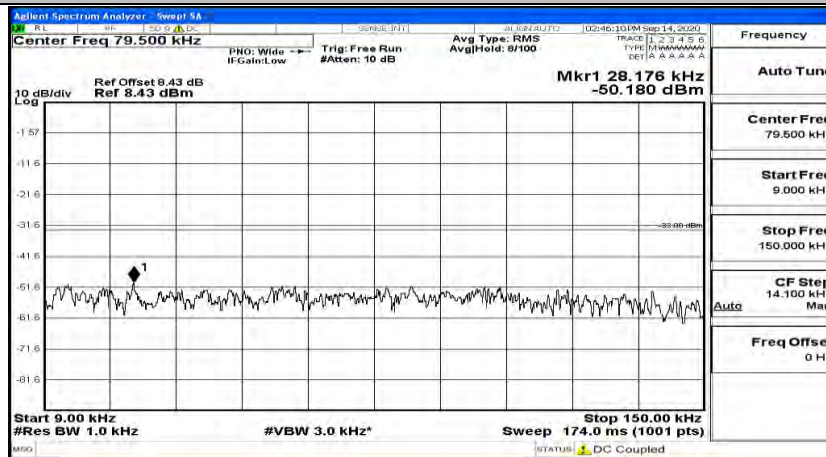




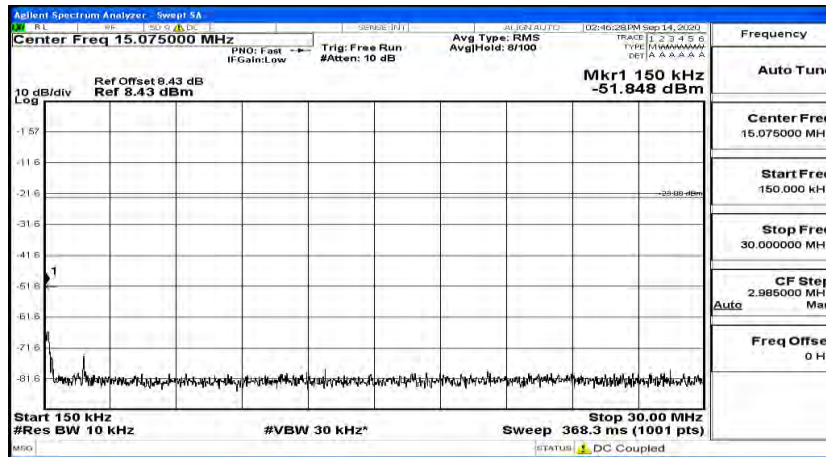
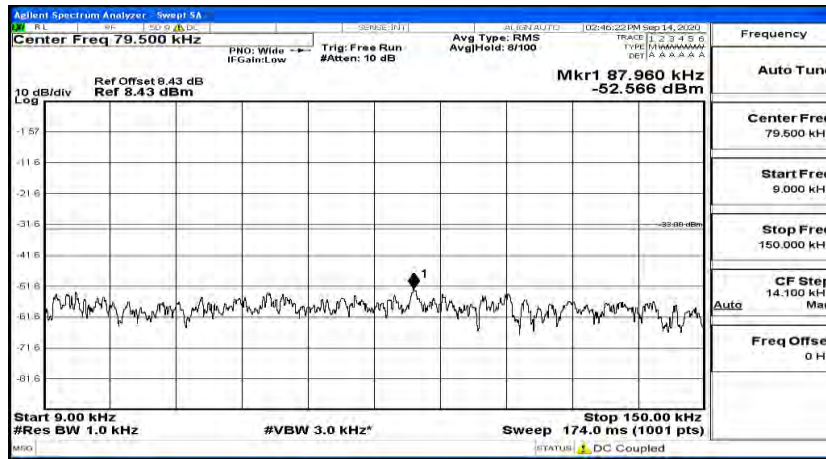
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



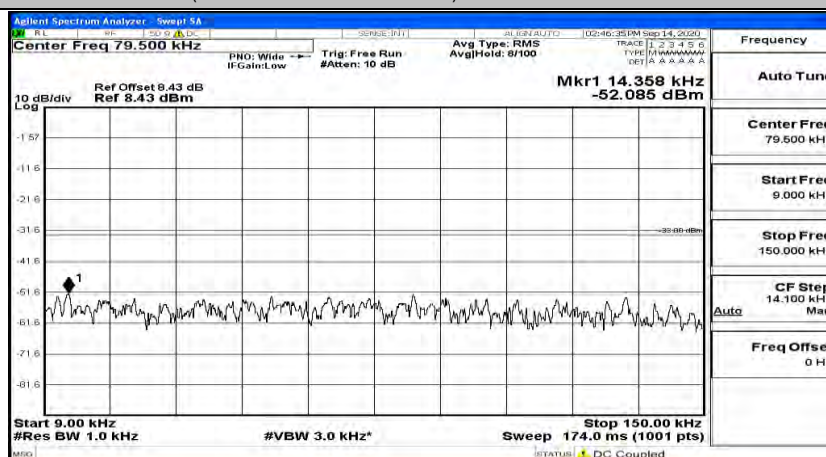
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0

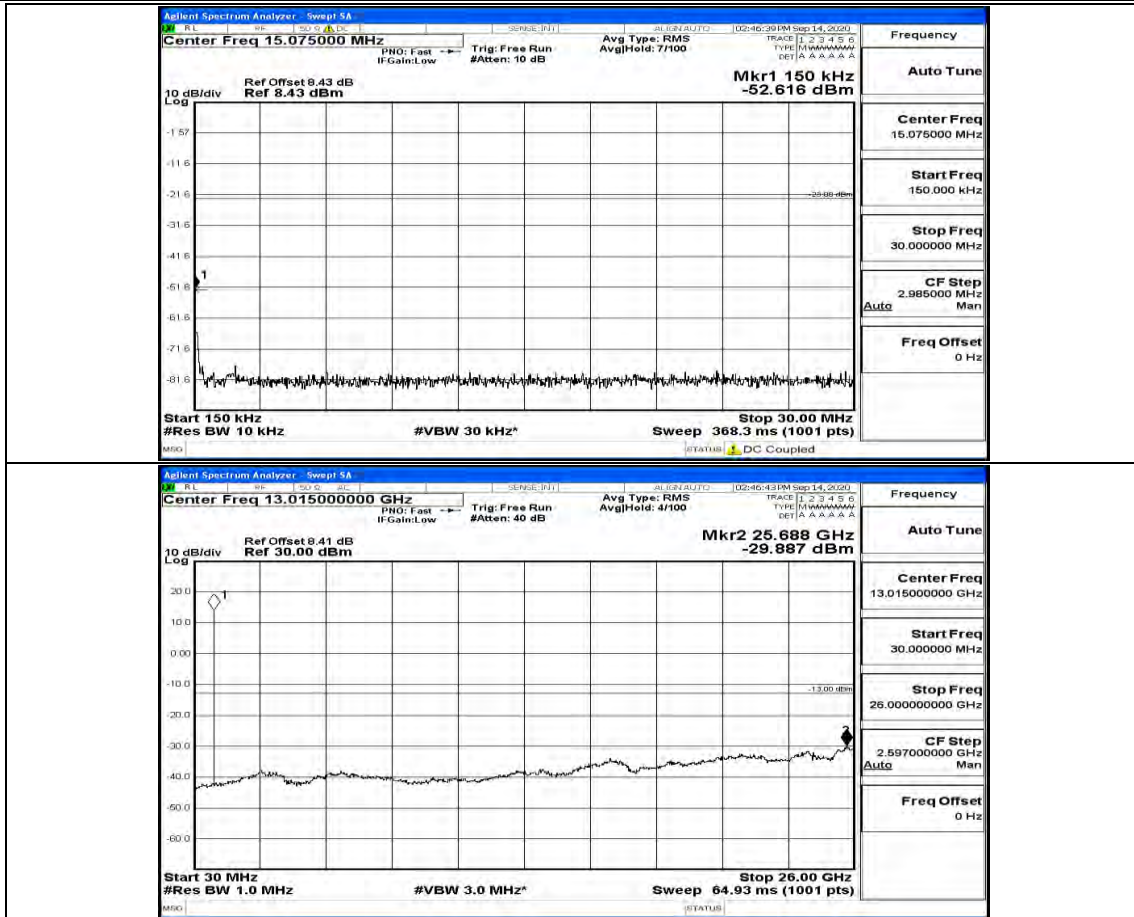


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

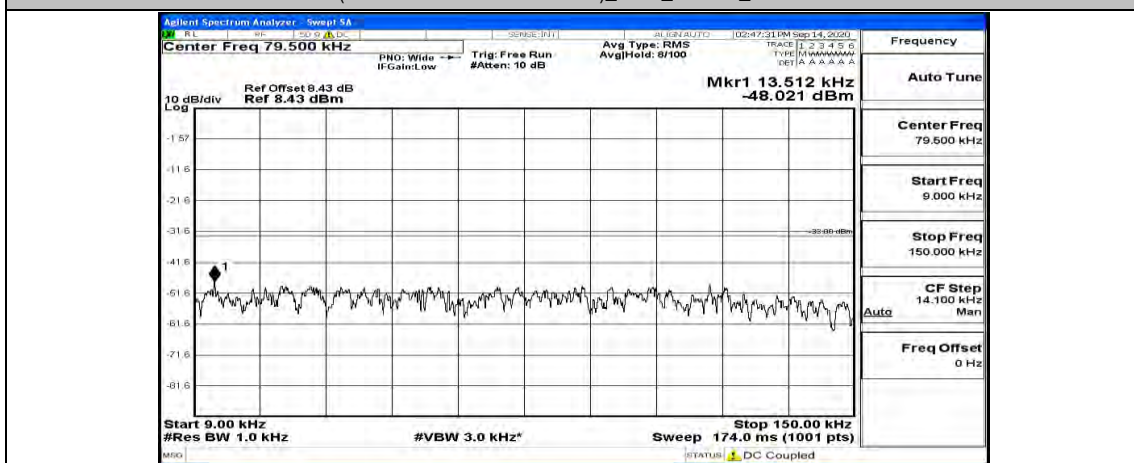


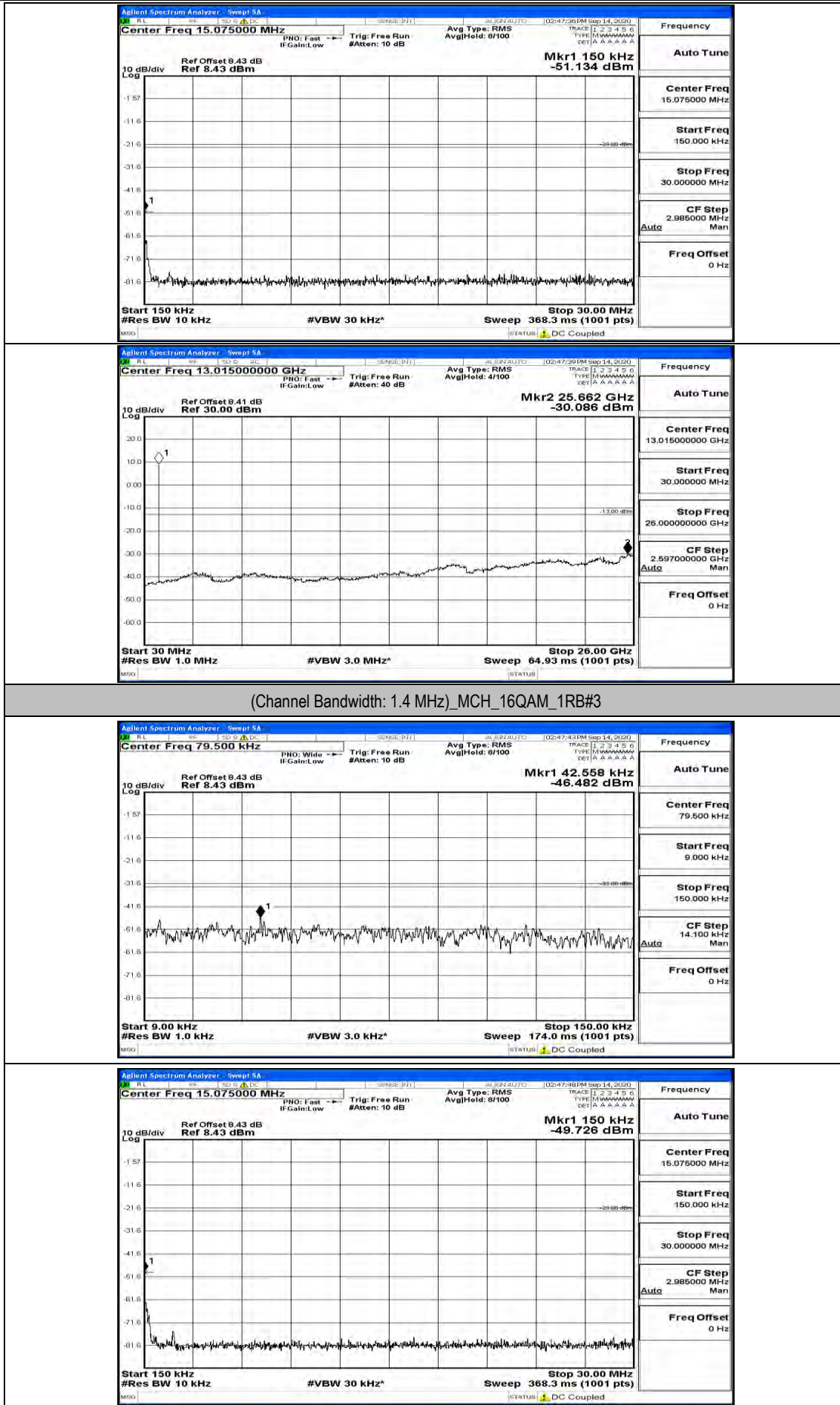
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

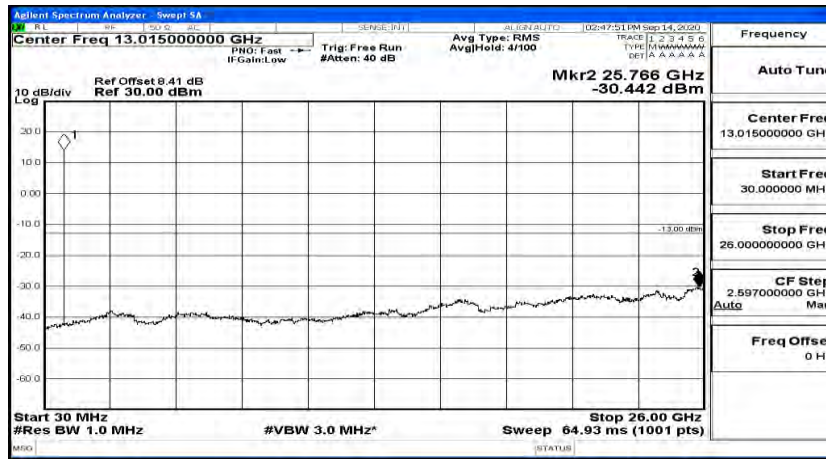




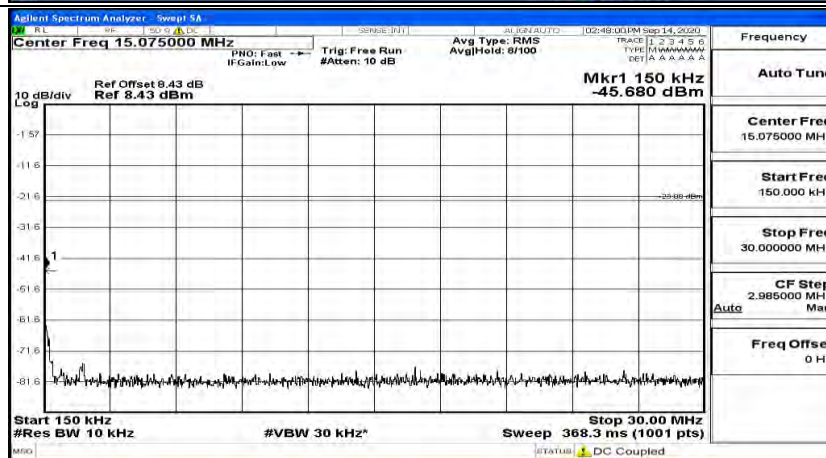
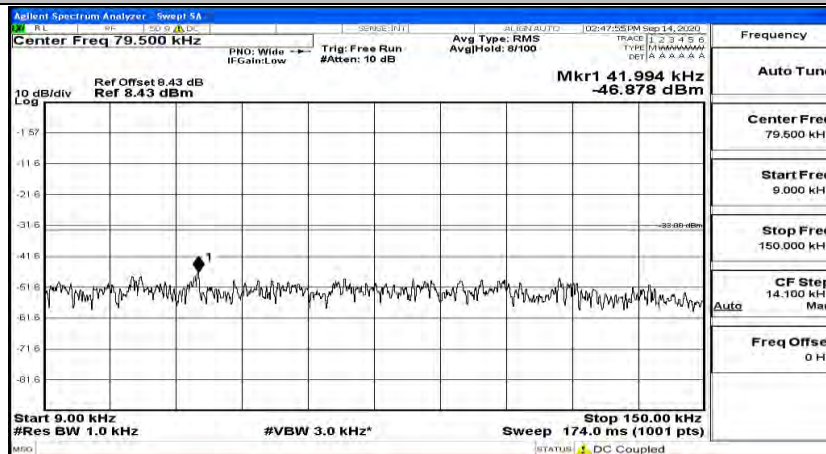
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



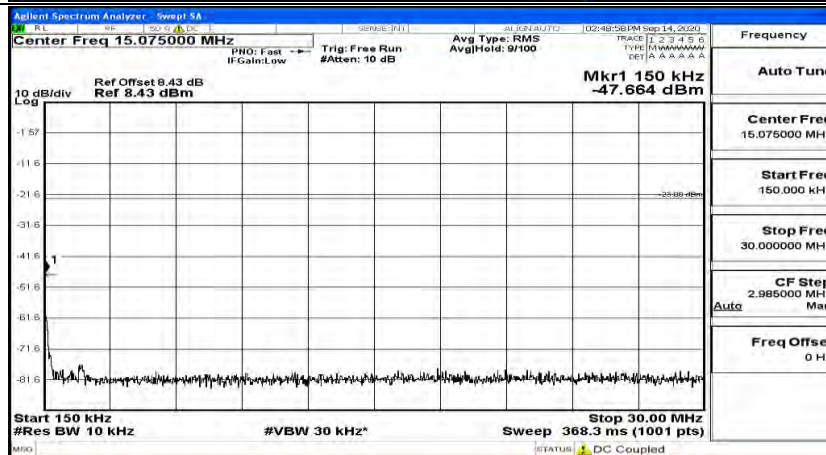
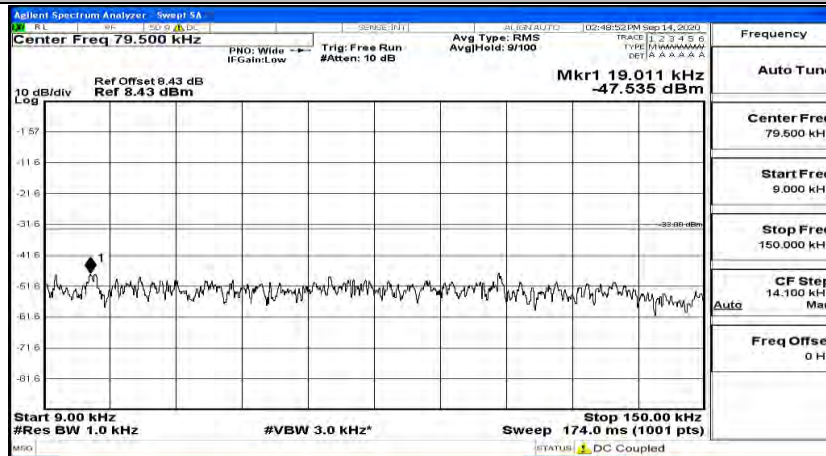




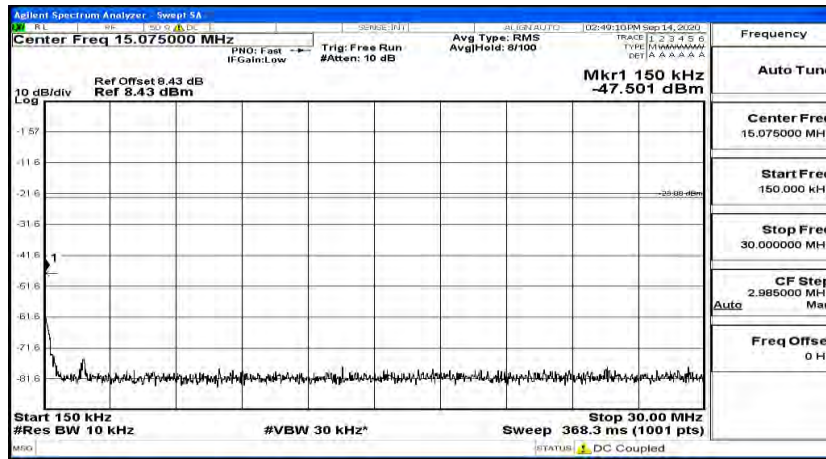
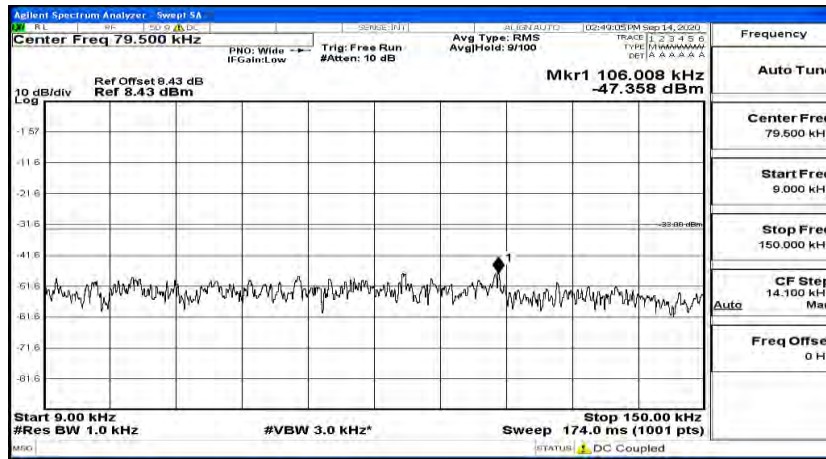
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



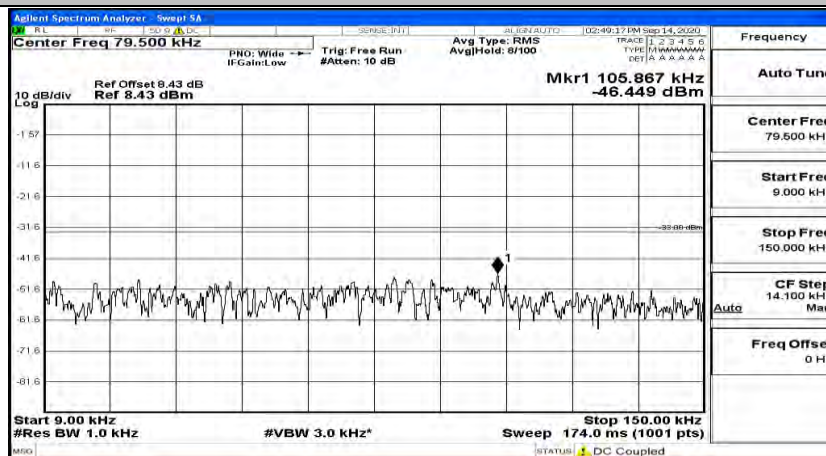
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0

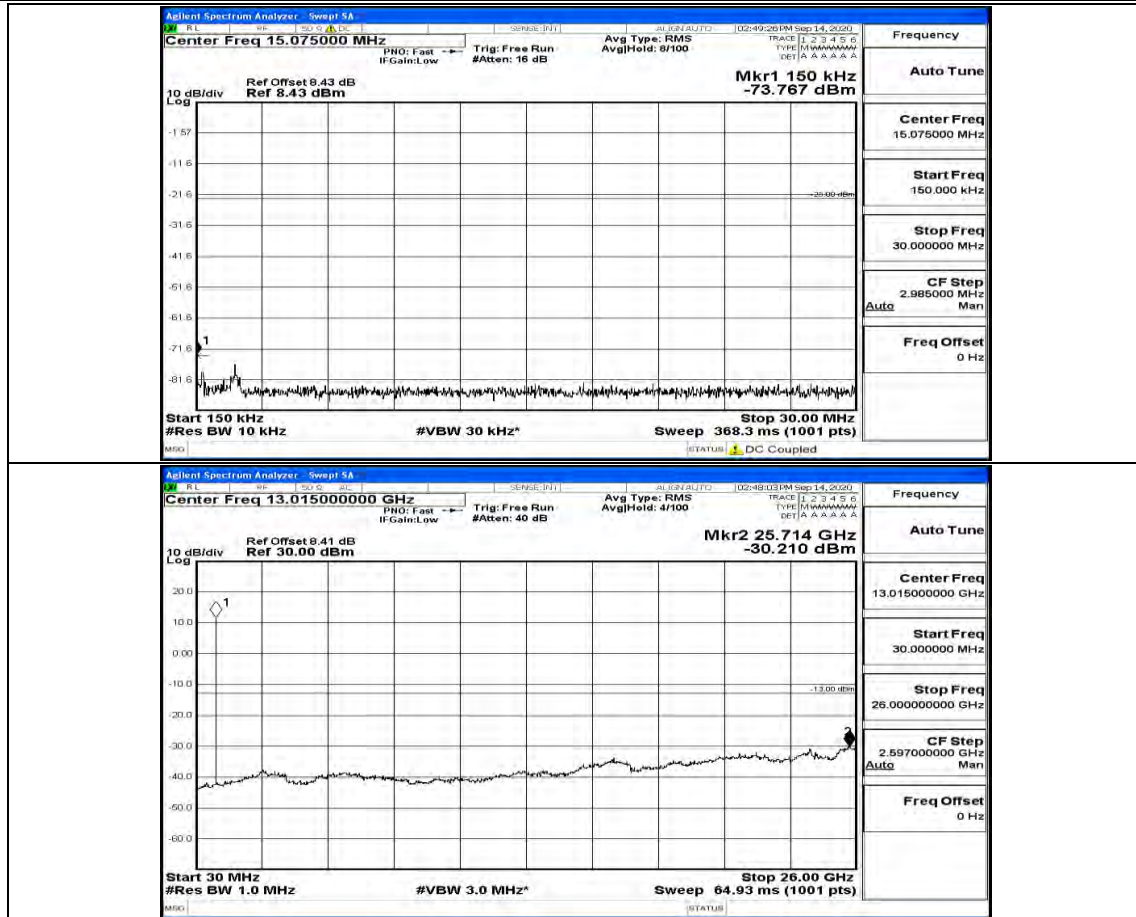


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3

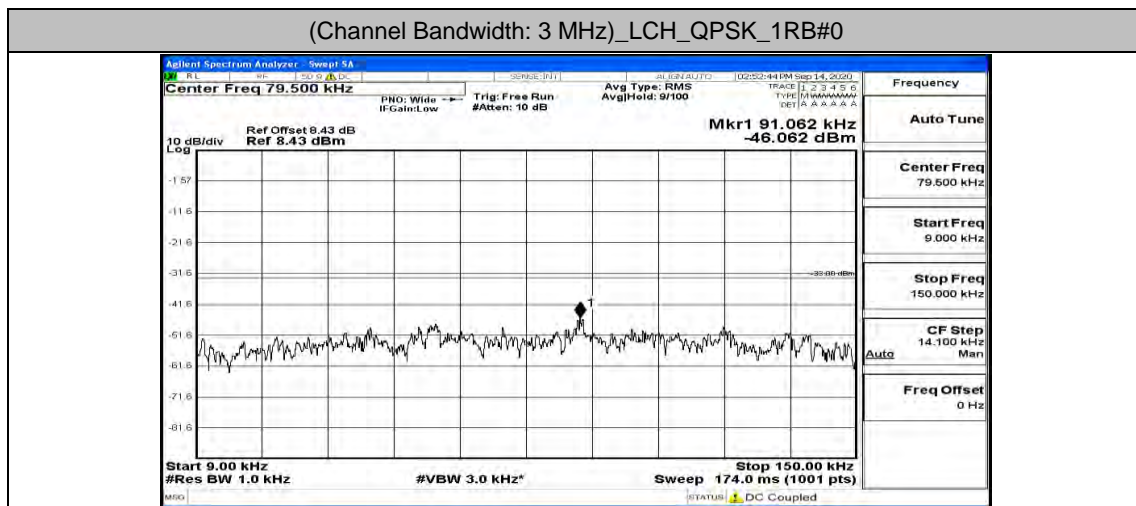


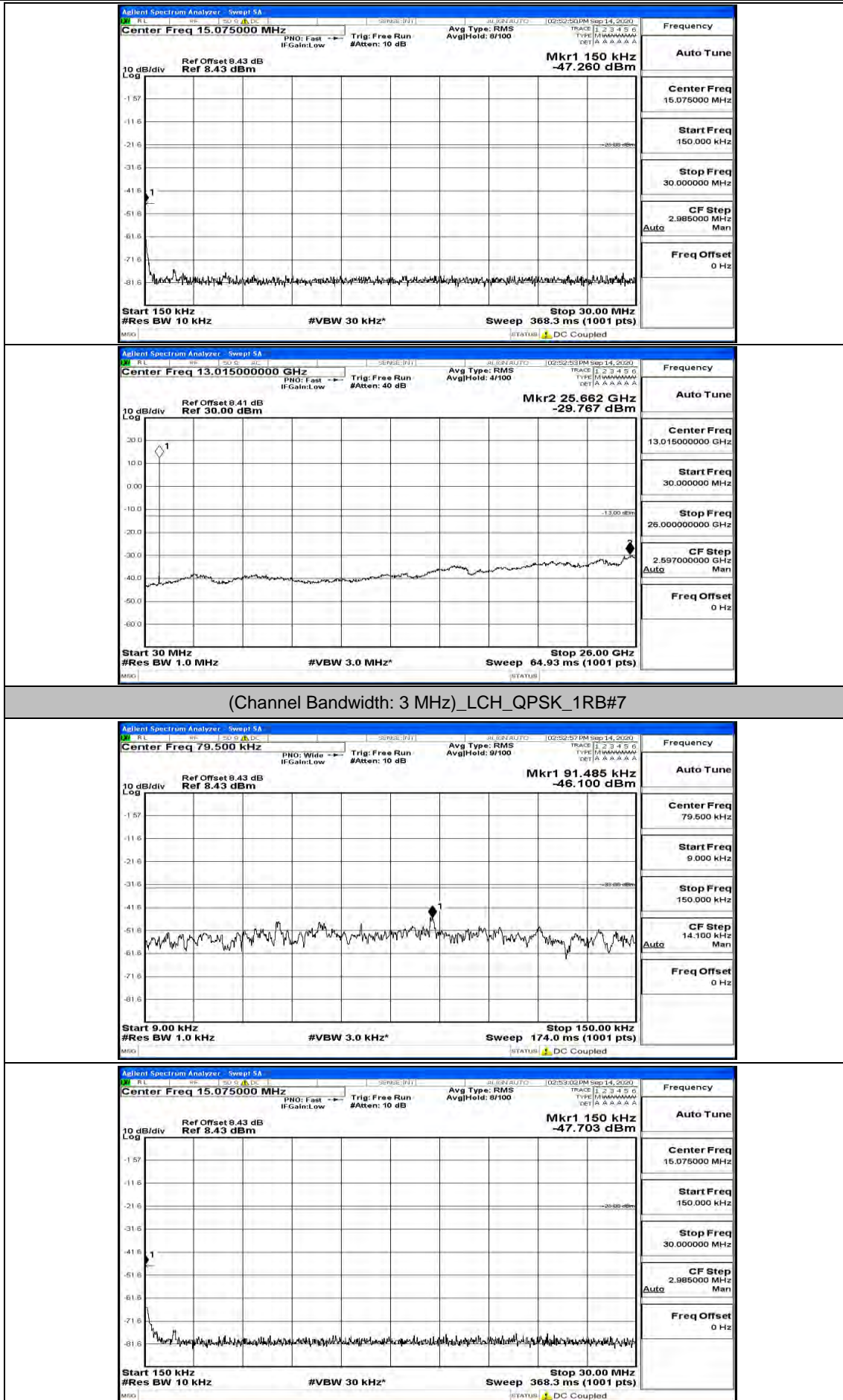
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5





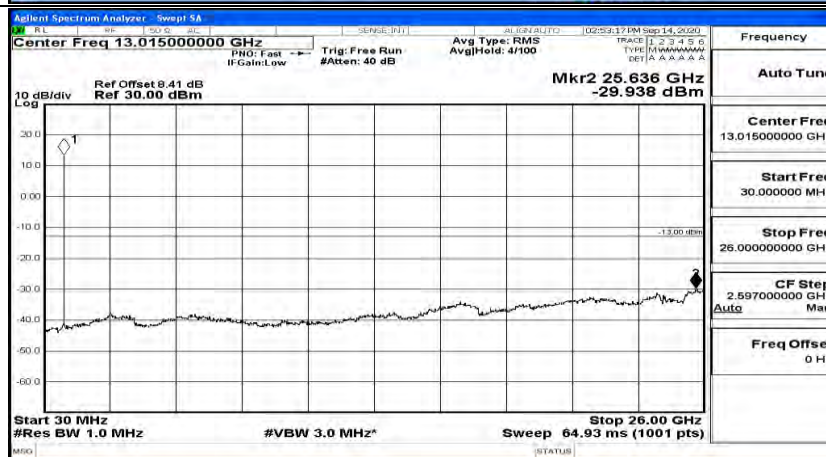
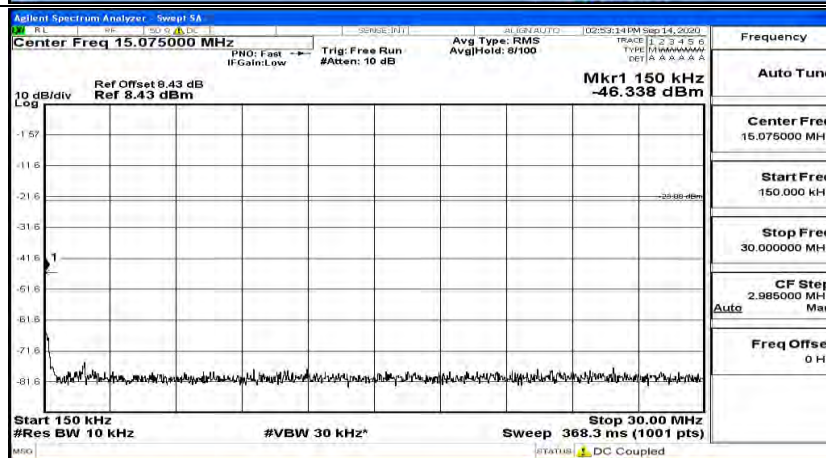
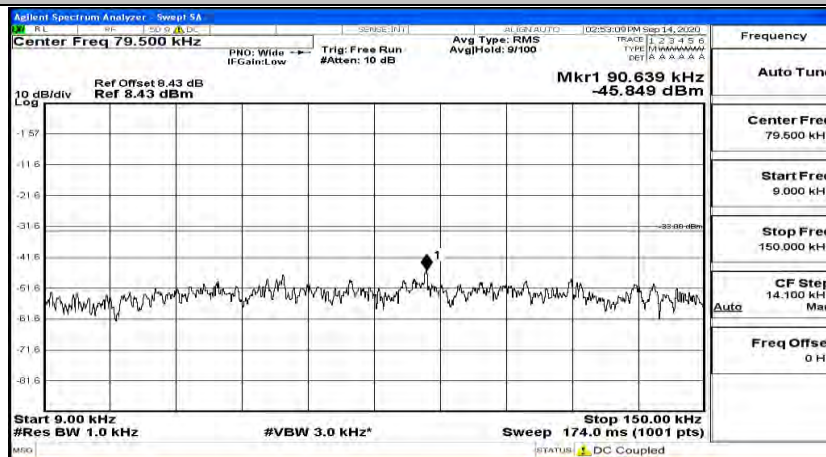
Channel Bandwidth: 3 MHz



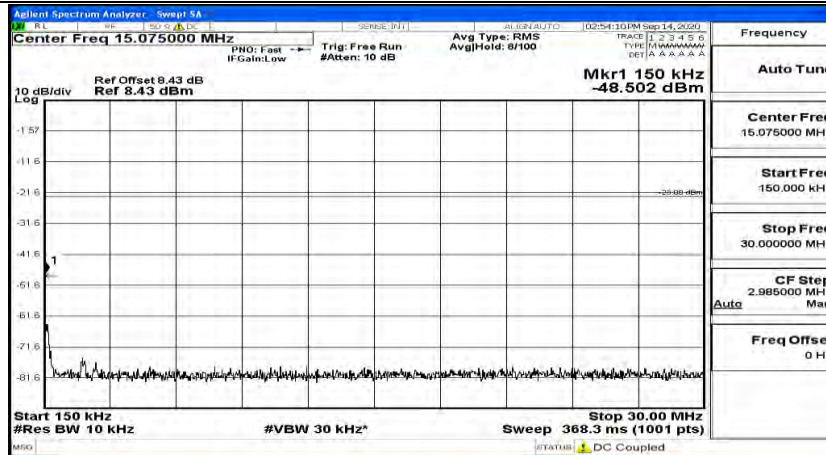
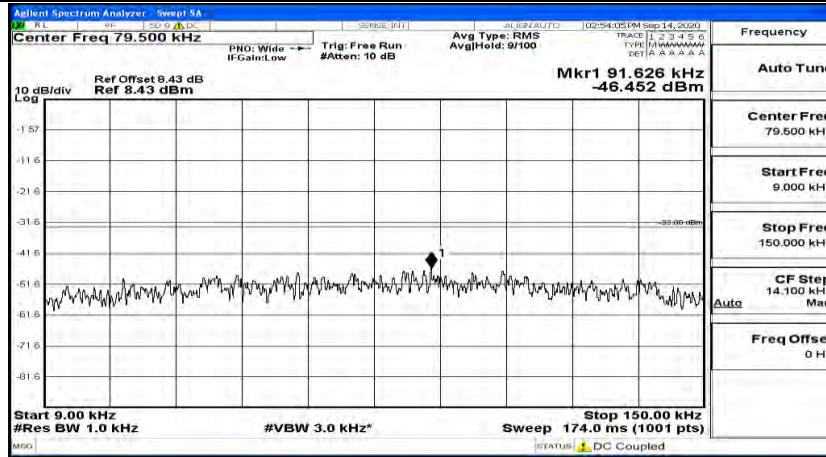




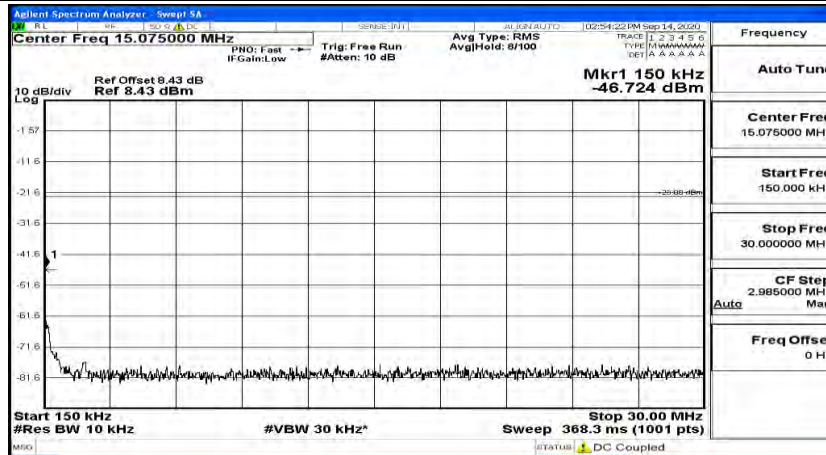
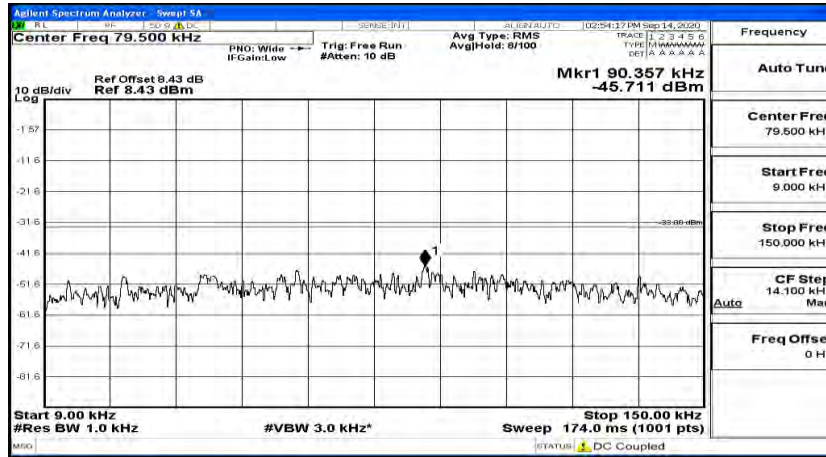
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



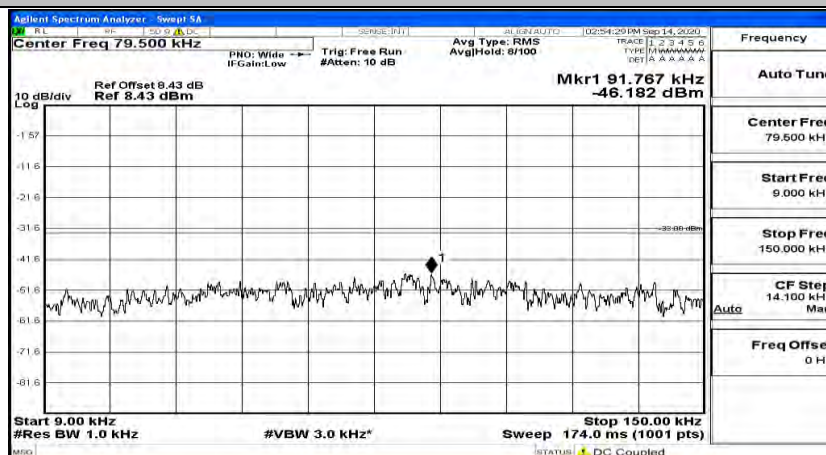
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

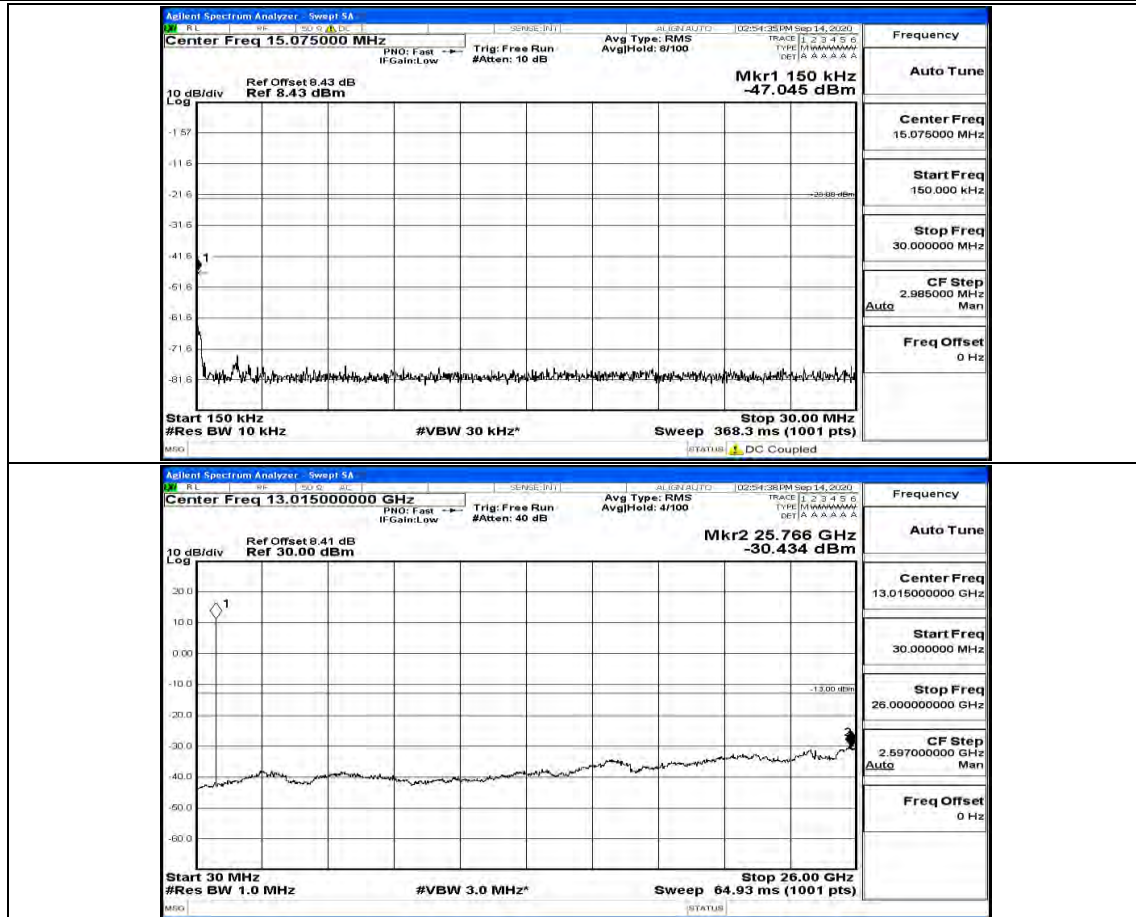


(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7

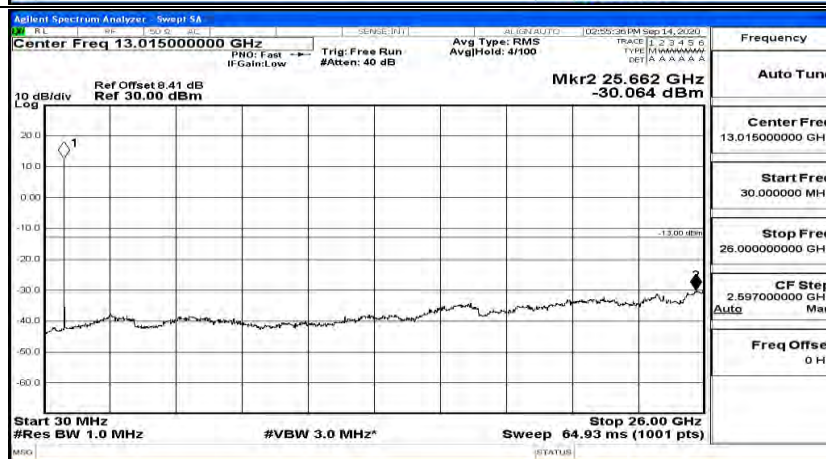
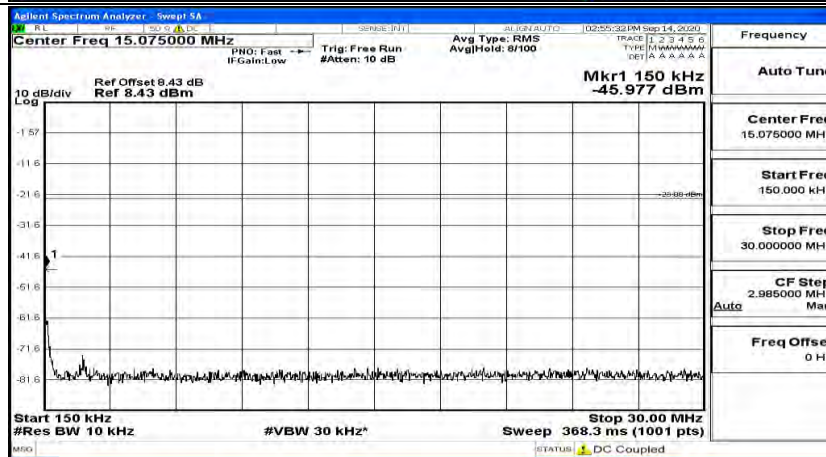
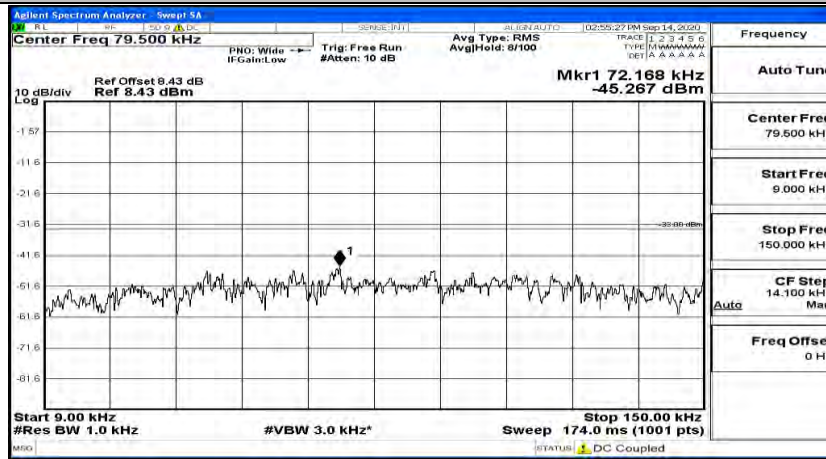


(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

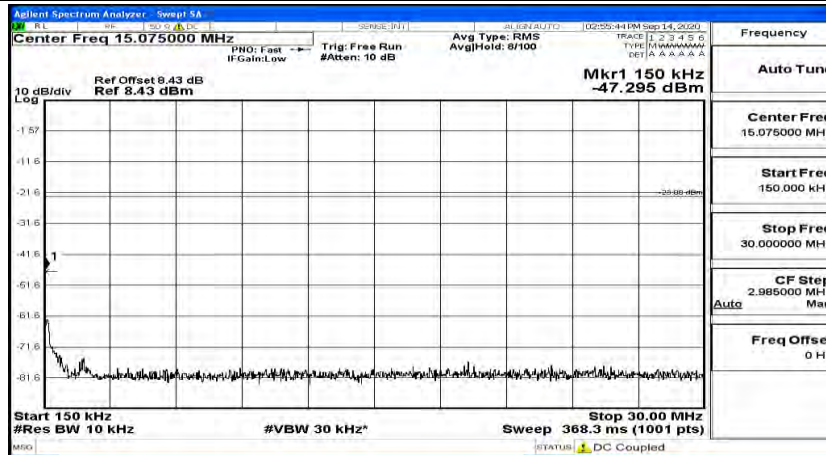
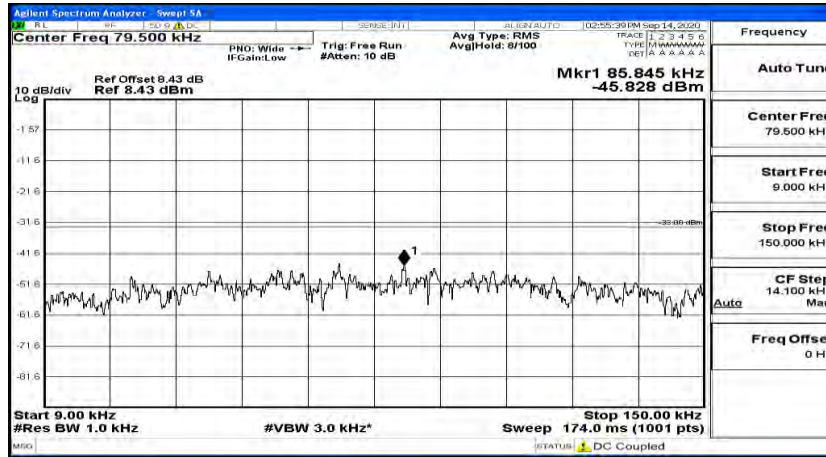




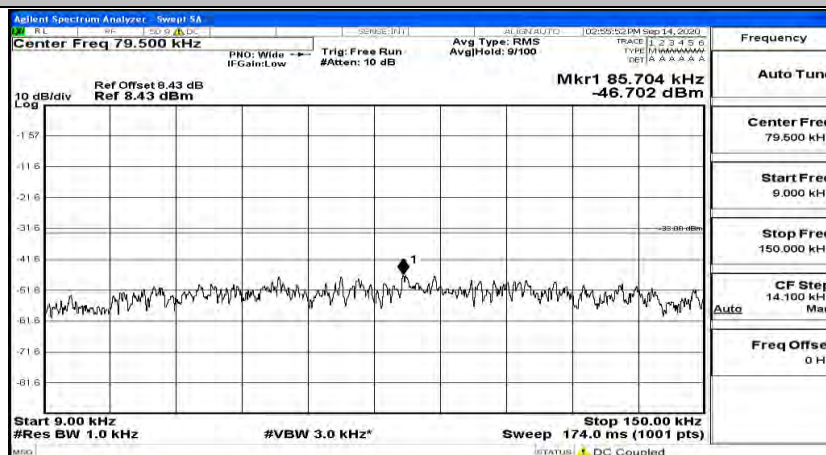
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

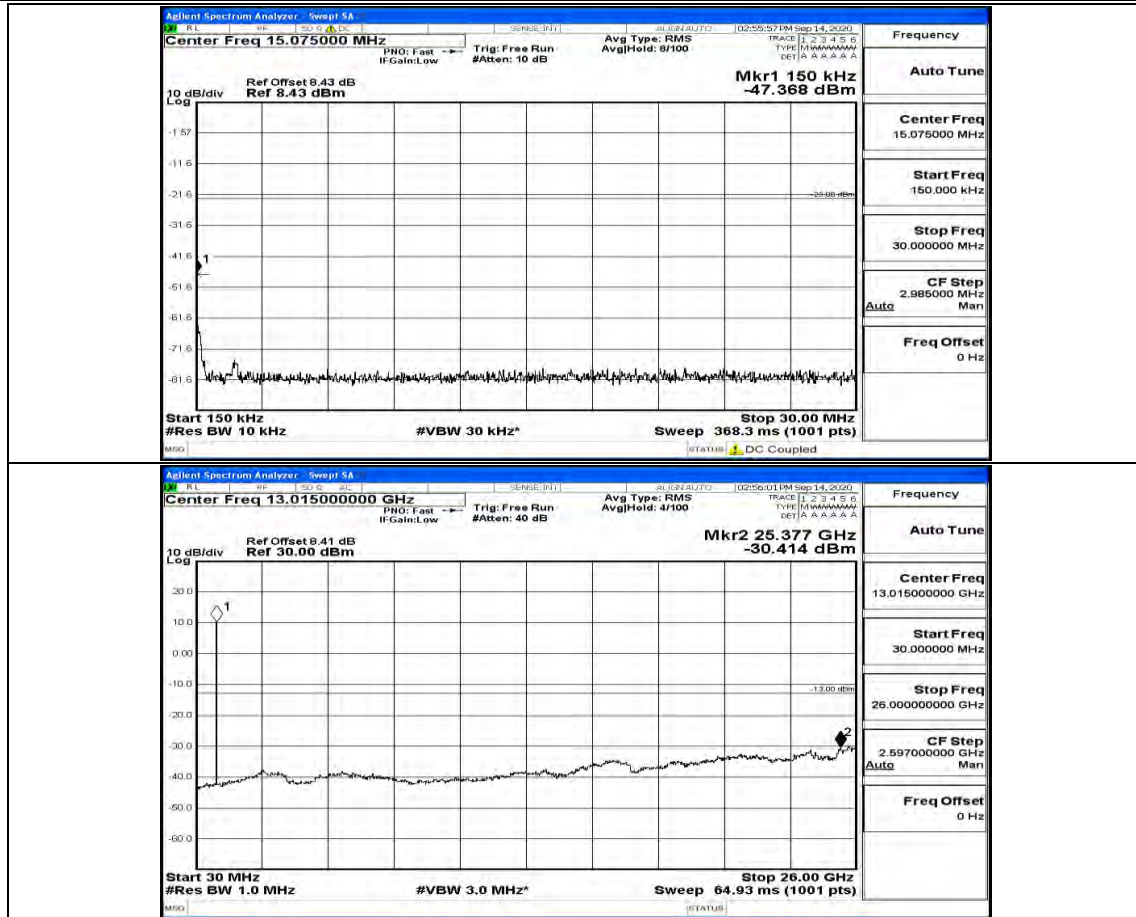


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

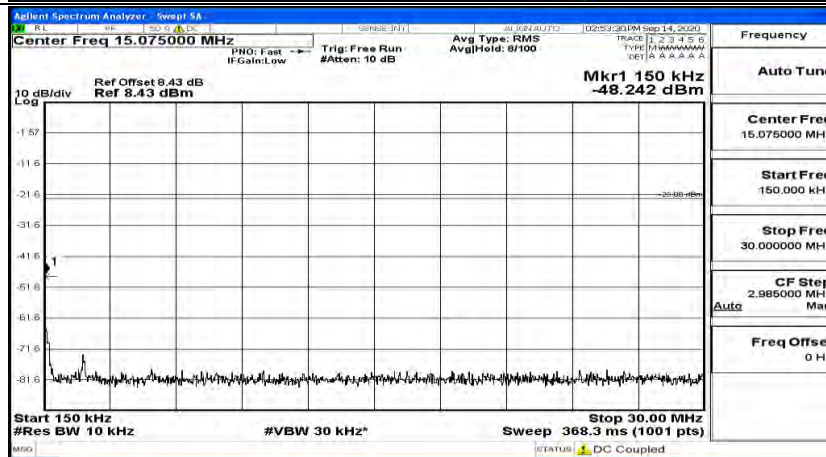
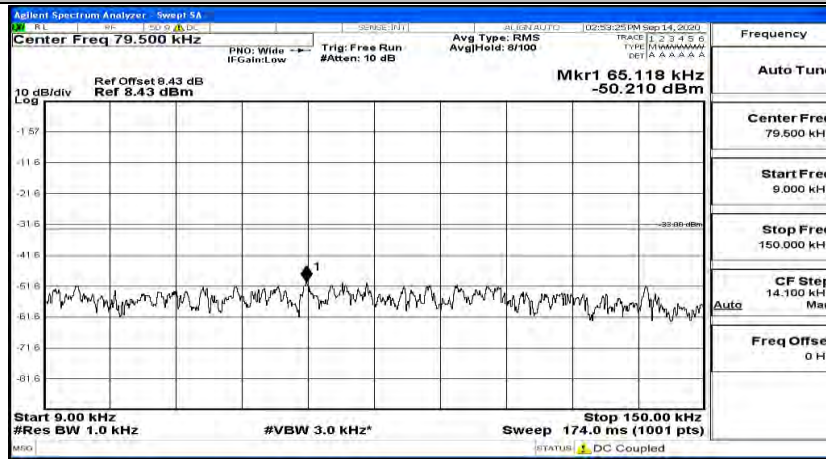


(Channel Bandwidth: 3 MHz) _HCH_QPSK_1RB#14

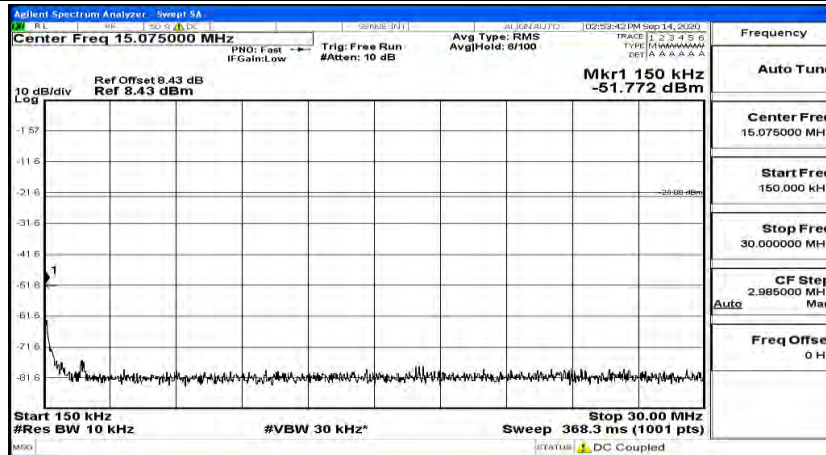
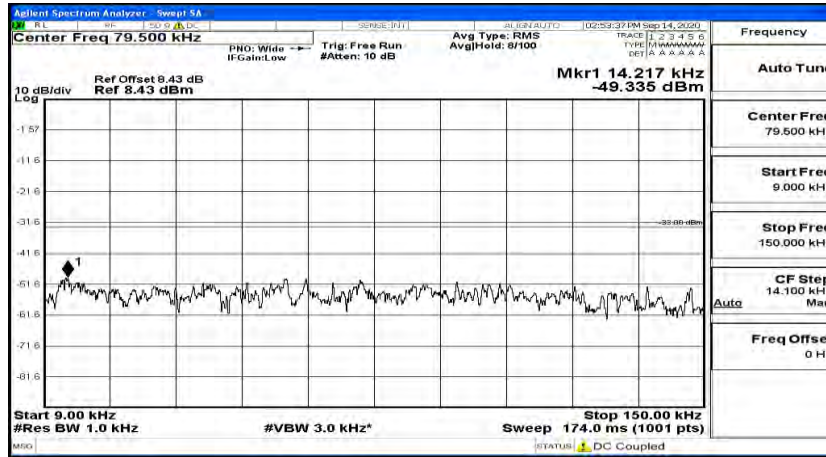




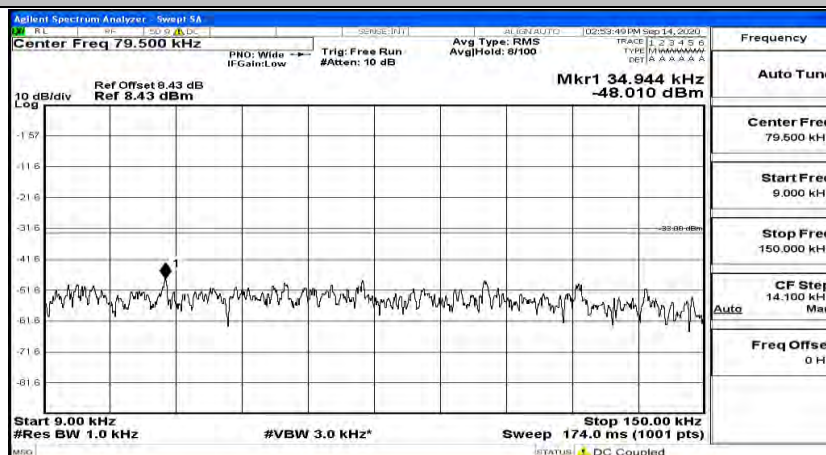
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0

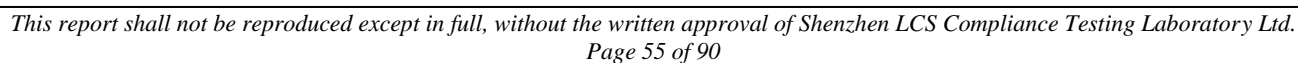


(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7

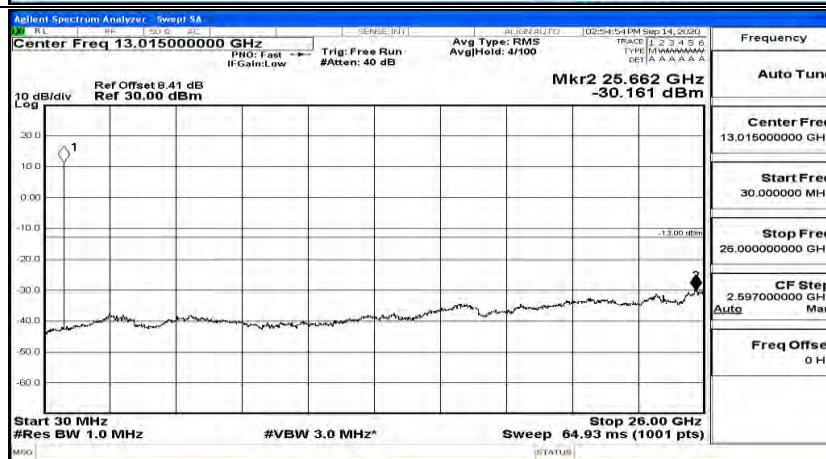
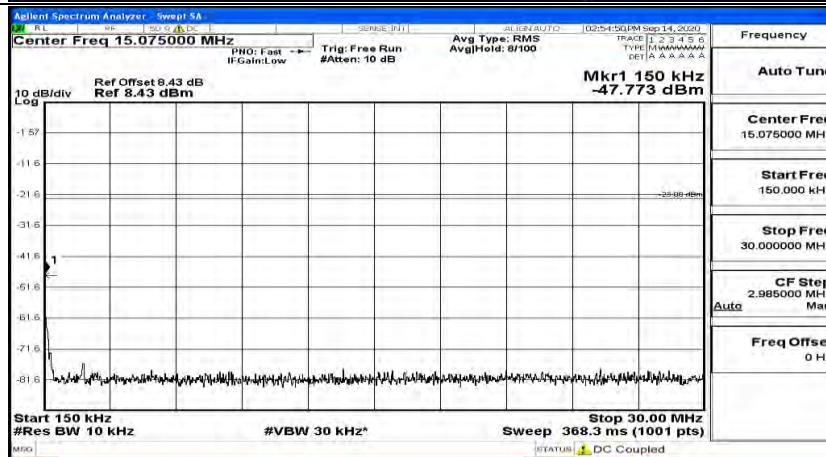
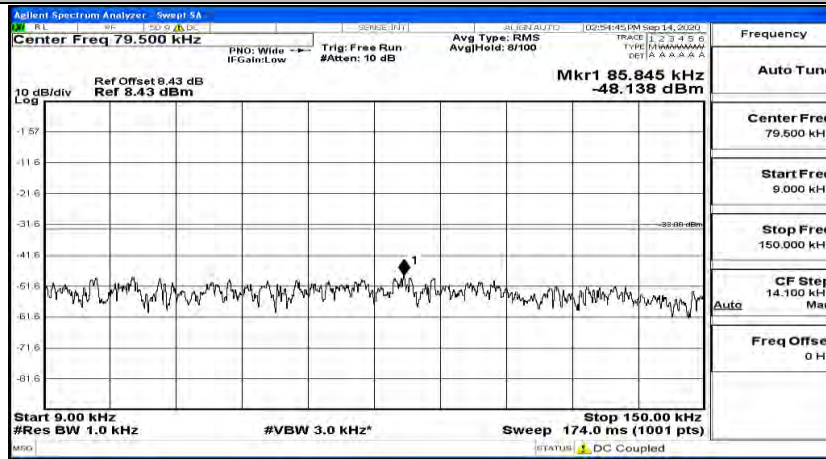


(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14

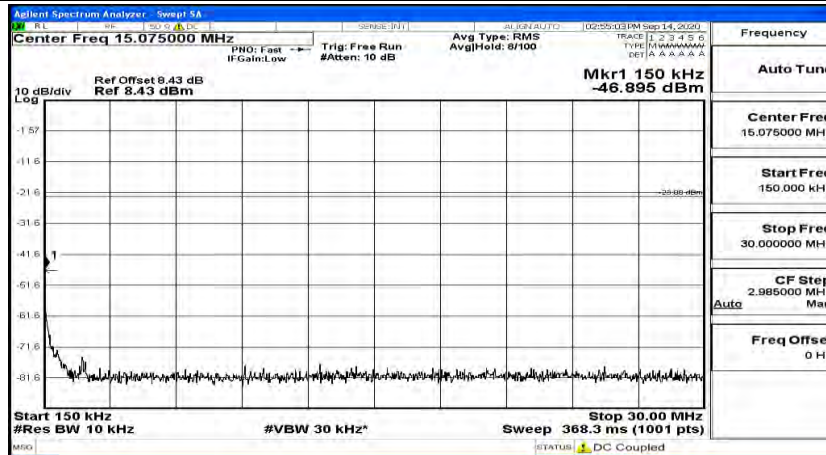
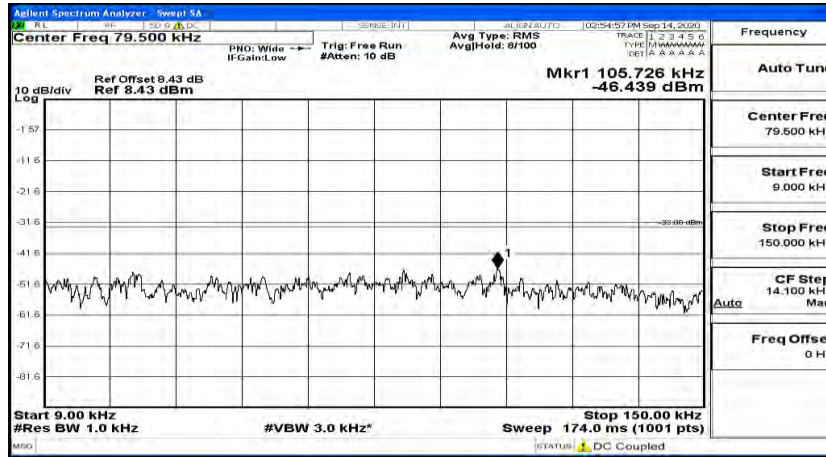




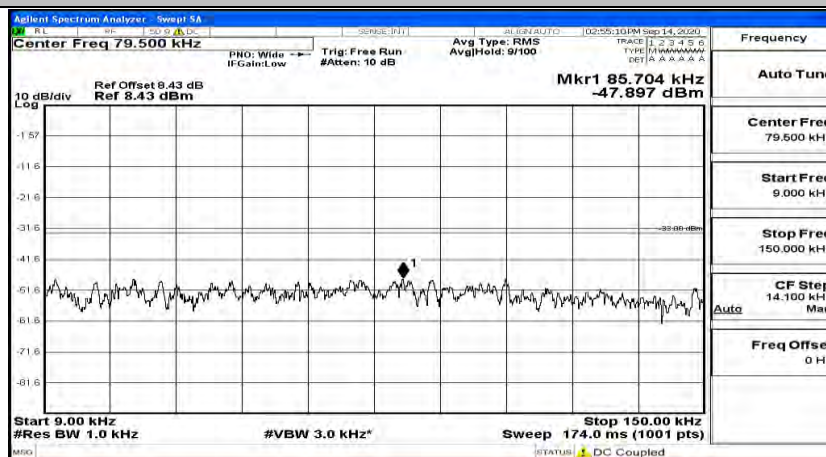
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

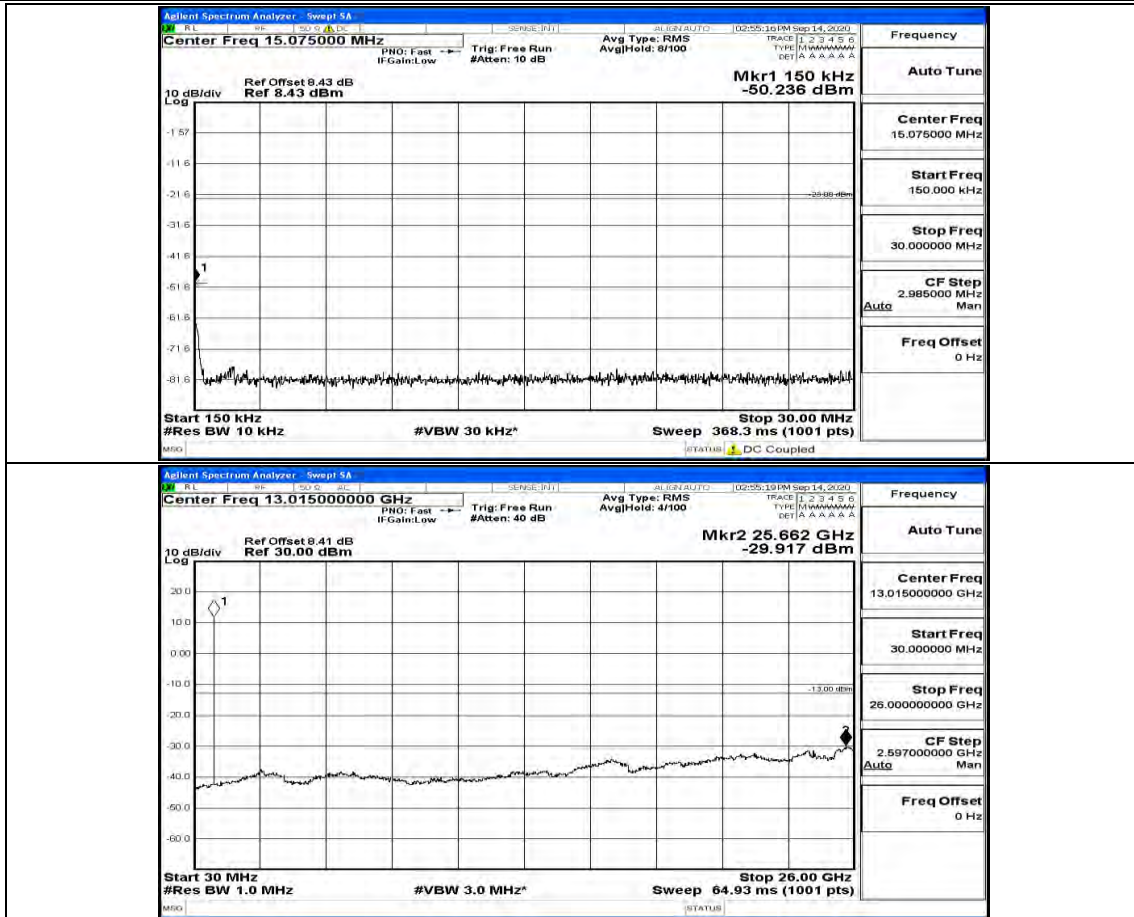


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

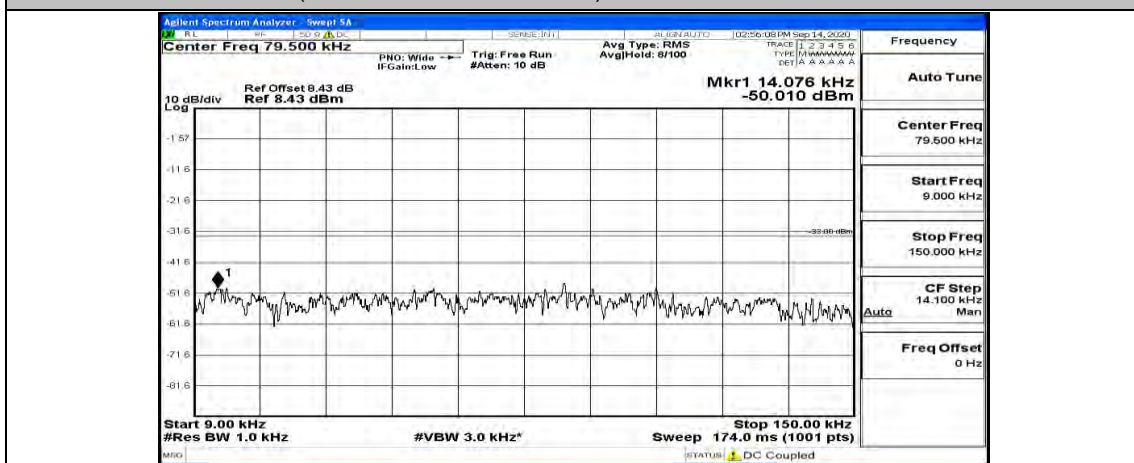


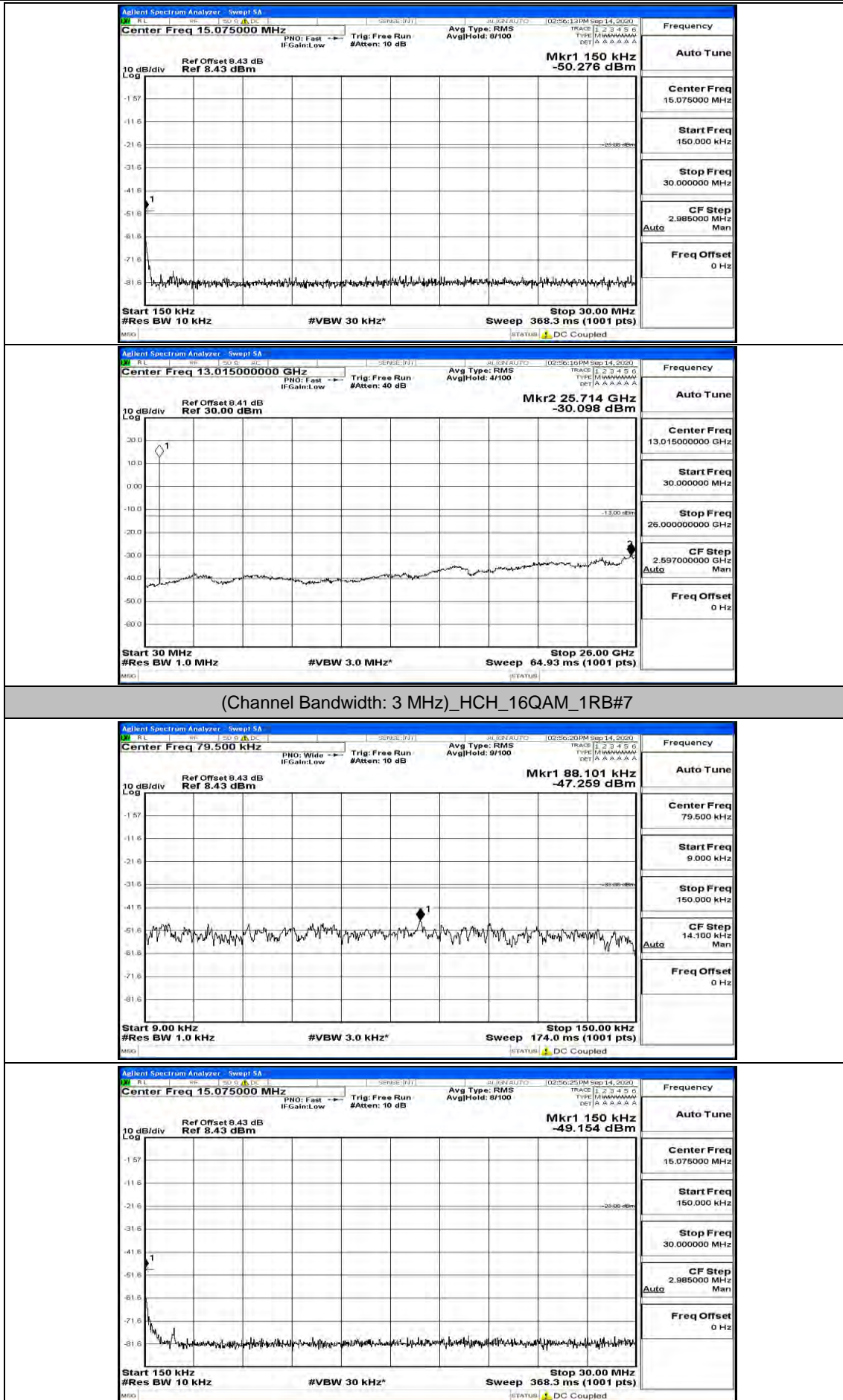
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14





(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0







(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14

