

Appendix E: Test Data for E-UTRA Band 12

Product Name: Stackable multifunction charging station

Trade Mark: /

Test Model: SD-C9

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

E.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.51	21.80	PASS
		1	3	22.66	22.07	PASS
		1	5	22.58	21.97	PASS
		3	0	22.68	21.65	PASS
		3	2	22.69	21.66	PASS
		3	3	22.82	21.77	PASS
		6	0	22.75	21.66	PASS
	MCH	1	0	23.89	23.23	PASS
		1	3	23.78	23.14	PASS
		1	5	23.60	22.90	PASS
		3	0	23.91	22.80	PASS
		3	2	23.91	22.80	PASS
		3	3	23.69	22.65	PASS
		6	0	23.74	22.68	PASS
	HCH	1	0	24.47	23.72	PASS
		1	3	24.16	23.46	PASS
		1	5	23.86	23.10	PASS
		3	0	24.40	23.46	PASS
		3	2	24.40	23.46	PASS
		3	3	24.04	23.07	PASS
		6	0	23.85	22.81	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	22.86	21.97	PASS
		1	7	23.10	22.25	PASS
		1	14	23.17	22.30	PASS
		8	0	22.93	22.00	PASS
		8	4	22.92	22.01	PASS
		8	7	23.03	22.12	PASS
		15	0	22.95	22.01	PASS
	MCH	1	0	24.07	23.18	PASS
		1	7	23.87	23.06	PASS
		1	14	23.33	22.45	PASS
		8	0	23.94	22.97	PASS
		8	4	23.94	22.98	PASS
		8	7	23.52	22.58	PASS
		15	0	23.72	22.69	PASS
	HCH	1	0	24.58	23.52	PASS
		1	7	24.48	23.66	PASS
		1	14	23.63	22.72	PASS
		8	0	24.08	23.15	PASS
		8	4	23.95	23.16	PASS
		8	7	23.69	22.89	PASS
		15	0	23.90	22.85	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	22.71	21.64	PASS
		1	12	23.31	22.30	PASS
		1	24	23.39	22.42	PASS
		12	0	22.83	21.87	PASS
		12	6	22.83	21.96	PASS
		12	13	23.11	22.26	PASS
		25	0	23.01	22.00	PASS
	MCH	1	0	24.02	22.97	PASS
		1	12	23.98	22.97	PASS
		1	24	22.99	21.99	PASS
		12	0	23.78	22.80	PASS
		12	6	23.77	22.57	PASS
		12	13	23.31	22.36	PASS
		25	0	23.61	22.66	PASS
	HCH	1	0	23.18	22.33	PASS
		1	12	24.80	24.06	PASS
		1	24	23.57	22.83	PASS
		12	0	23.91	22.83	PASS
		12	6	23.76	22.83	PASS
		12	13	23.85	22.93	PASS
		25	0	23.86	22.89	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	21.96	21.14	PASS
		1	24	23.83	23.01	PASS
		1	49	22.56	21.72	PASS
		25	0	22.79	21.78	PASS
		25	12	22.80	21.79	PASS
		25	25	23.57	22.59	PASS
		50	0	23.17	22.20	PASS
	MCH	1	0	22.44	21.62	PASS
		1	24	23.78	22.99	PASS
		1	49	22.81	21.97	PASS
		25	0	23.54	22.58	PASS
		25	12	23.54	22.67	PASS
		25	25	22.97	22.13	PASS
		50	0	23.31	22.34	PASS
	HCH	1	0	23.20	22.41	PASS
		1	24	23.37	22.57	PASS
		1	49	23.27	22.57	PASS
		25	0	23.08	22.09	PASS
		25	12	23.08	22.09	PASS
		25	25	24.07	23.09	PASS
		50	0	23.57	22.63	PASS

E.2 Peak-to-Average Ratio

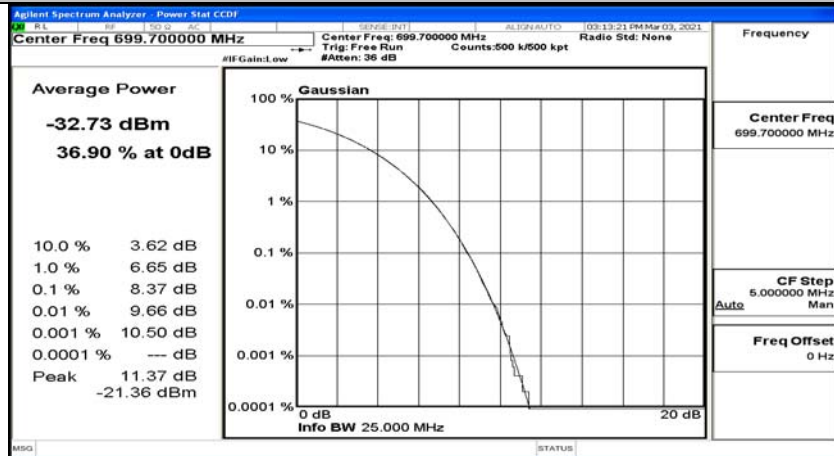
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	8.37	<13	PASS
	MCH	8.47	<13	PASS
	HCH	8.45	<13	PASS
16QAM	LCH	8.36	<13	PASS
	MCH	8.45	<13	PASS
	HCH	8.39	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	8.47	<13	PASS
	MCH	8.44	<13	PASS
	HCH	8.4	<13	PASS
16QAM	LCH	8.43	<13	PASS
	MCH	8.43	<13	PASS
	HCH	8.4	<13	PASS

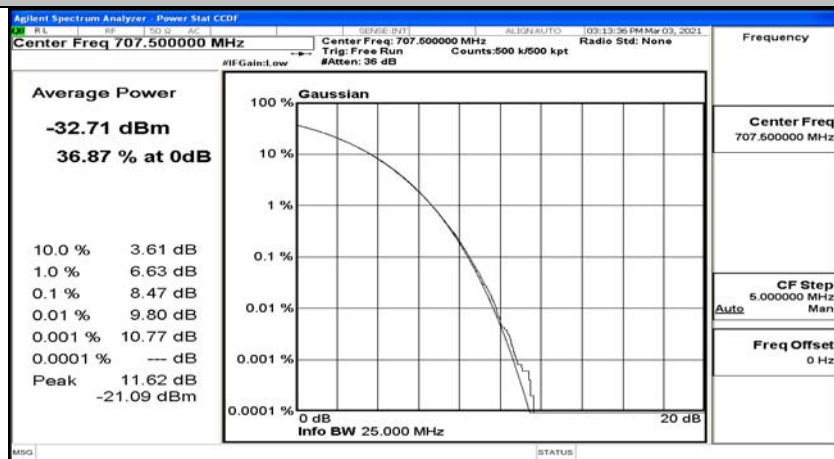
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	8.41	<13	PASS
	MCH	8.41	<13	PASS
	HCH	8.39	<13	PASS
16QAM	LCH	8.43	<13	PASS
	MCH	8.37	<13	PASS
	HCH	8.36	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	8.4	<13	PASS
	MCH	8.43	<13	PASS
	HCH	8.41	<13	PASS
16QAM	LCH	8.48	<13	PASS
	MCH	8.4	<13	PASS
	HCH	8.43	<13	PASS

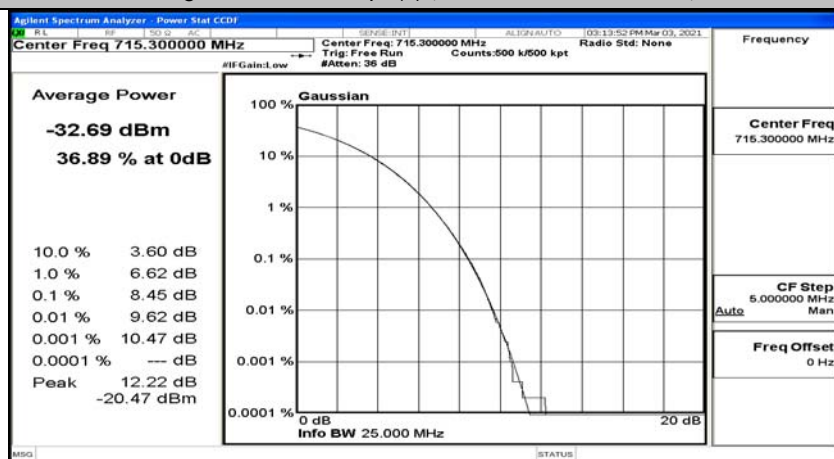
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



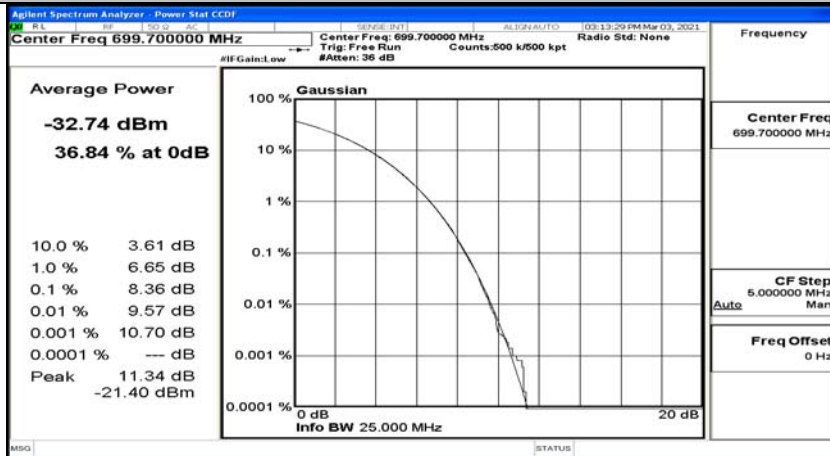
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



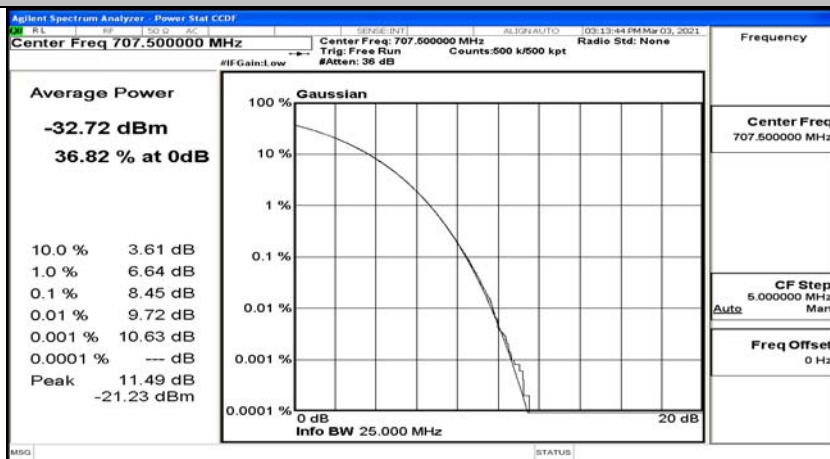
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



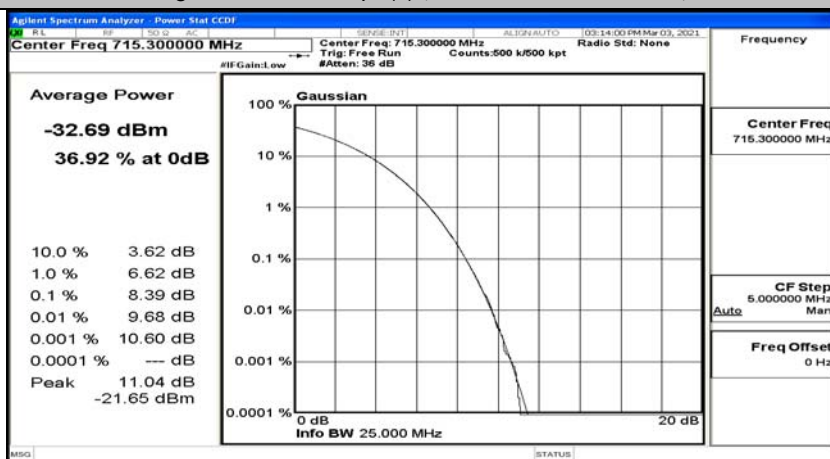
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



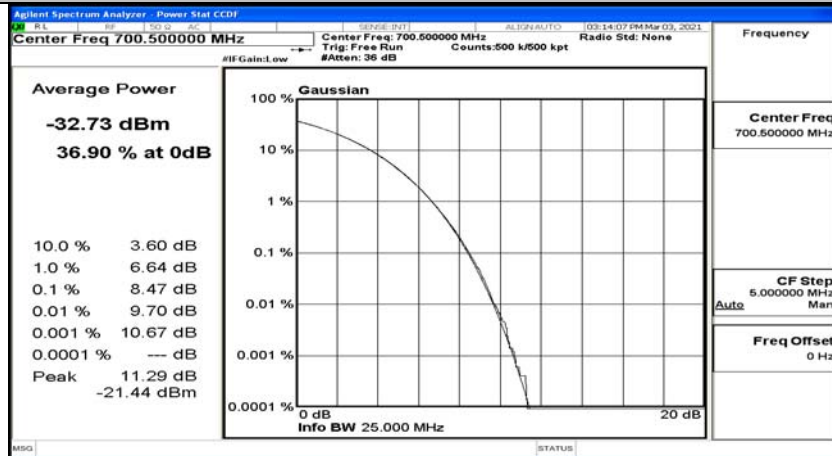
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



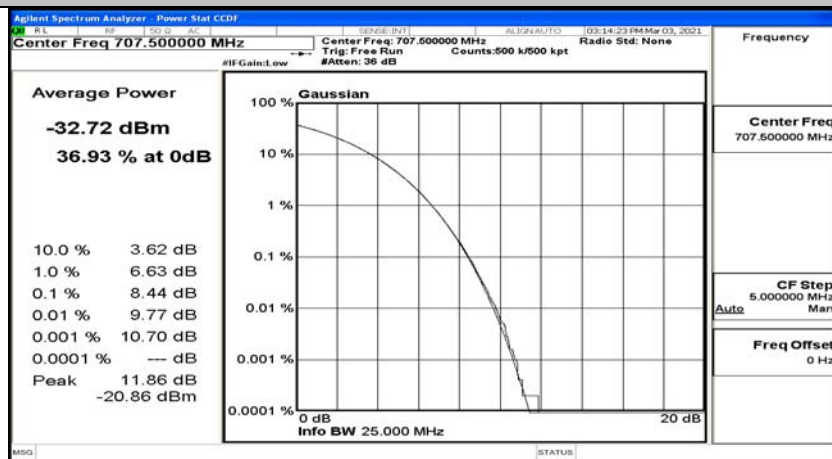
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



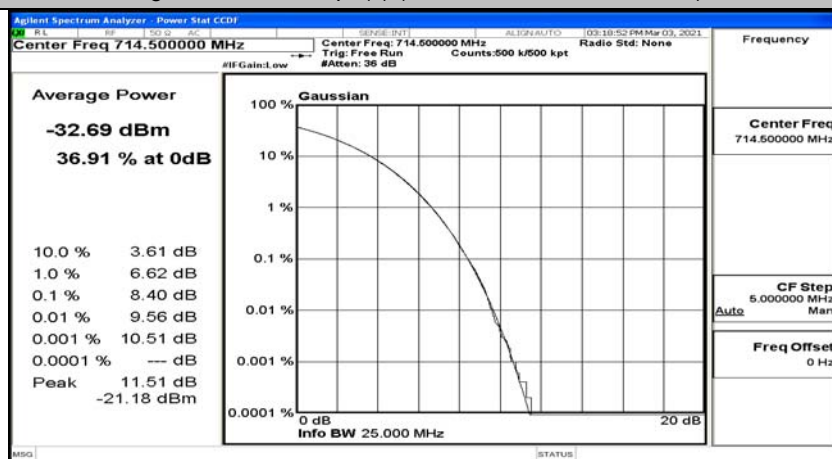
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



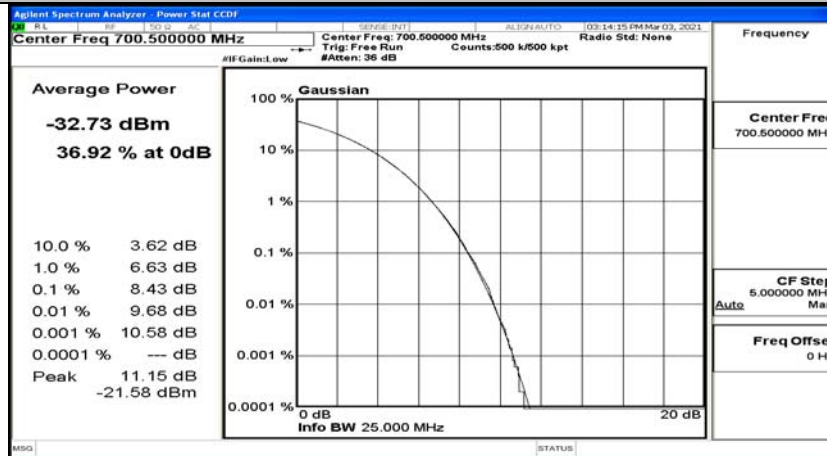
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



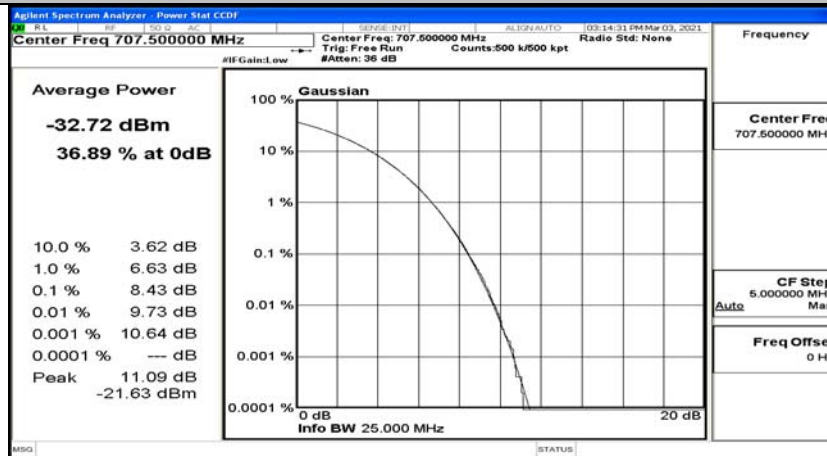
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



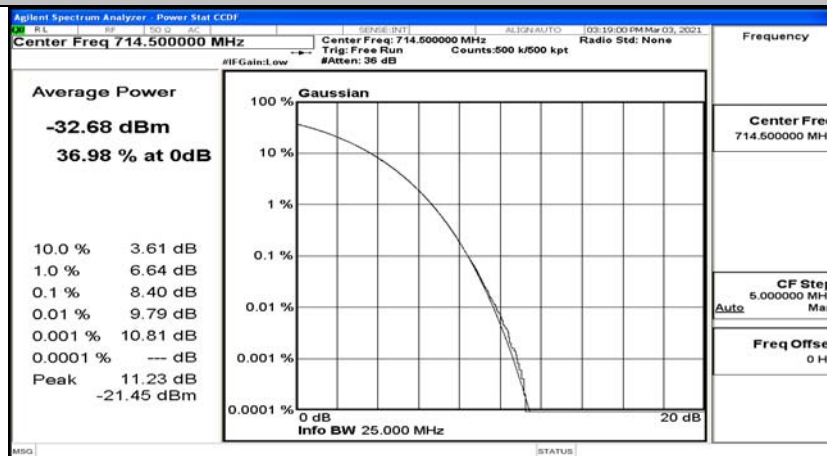
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



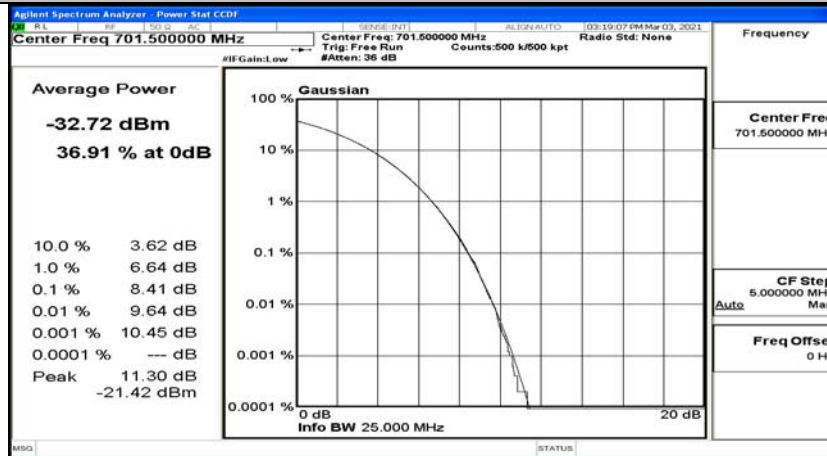
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



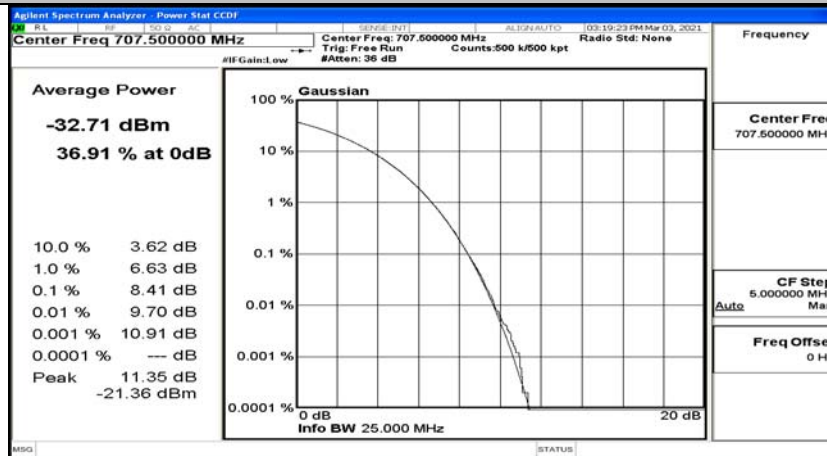
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



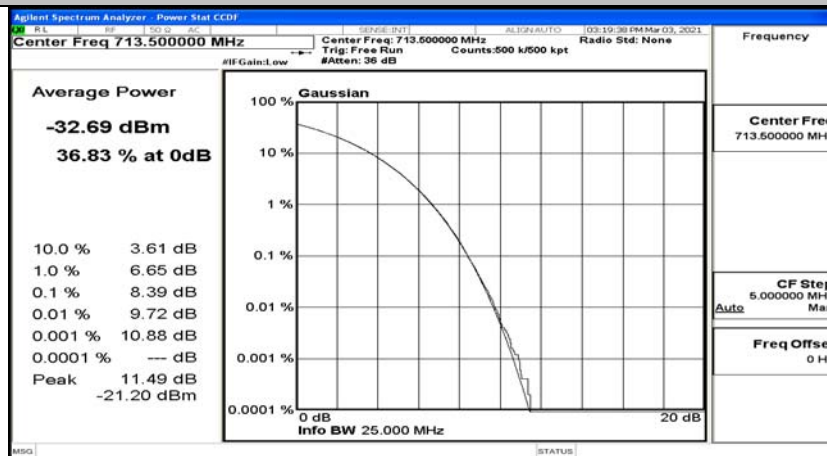
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



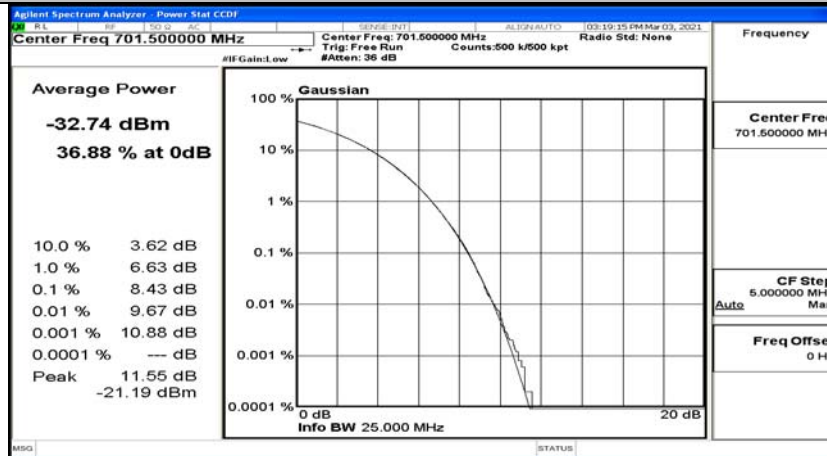
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



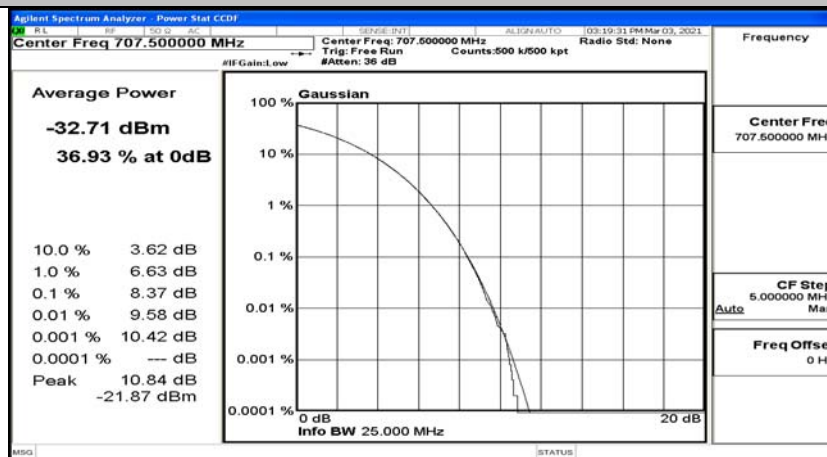
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



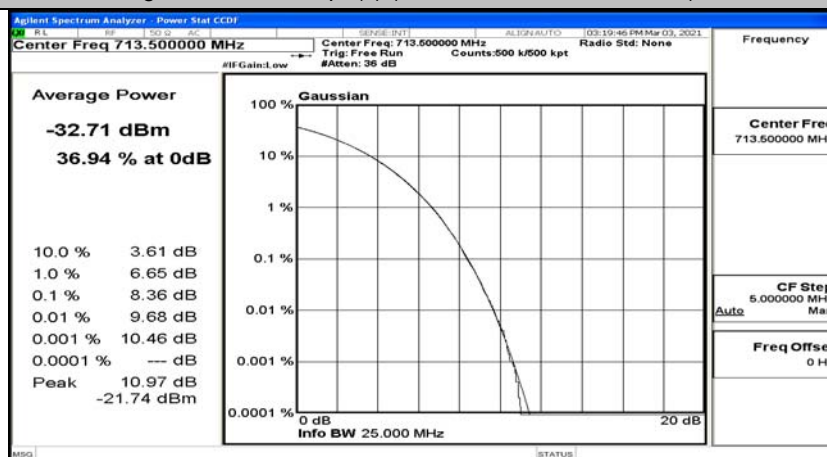
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



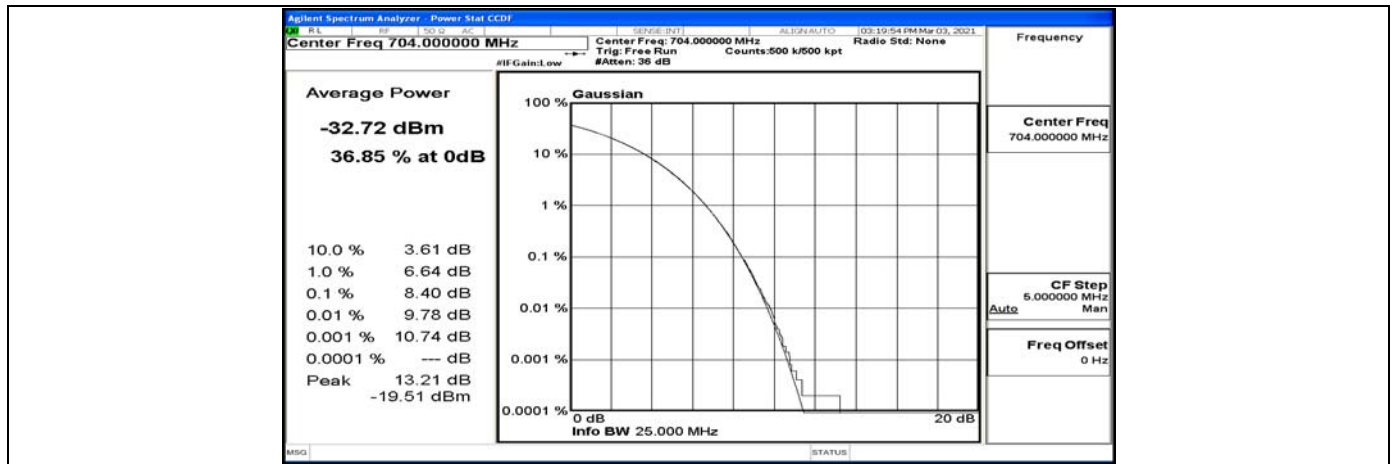
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



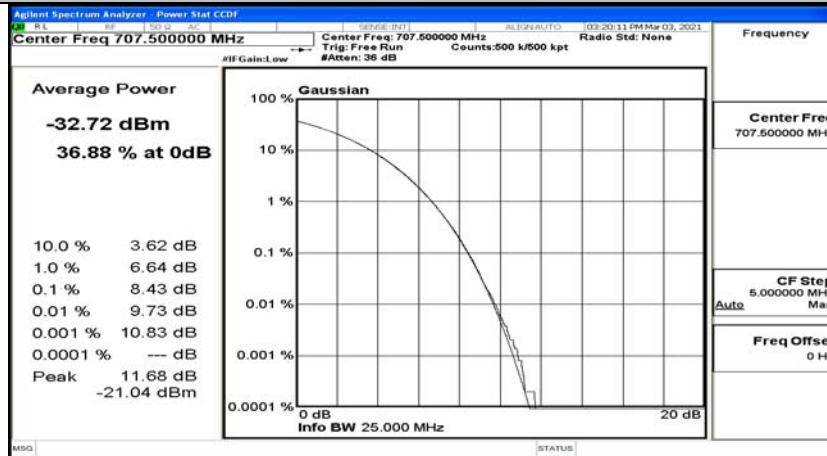
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



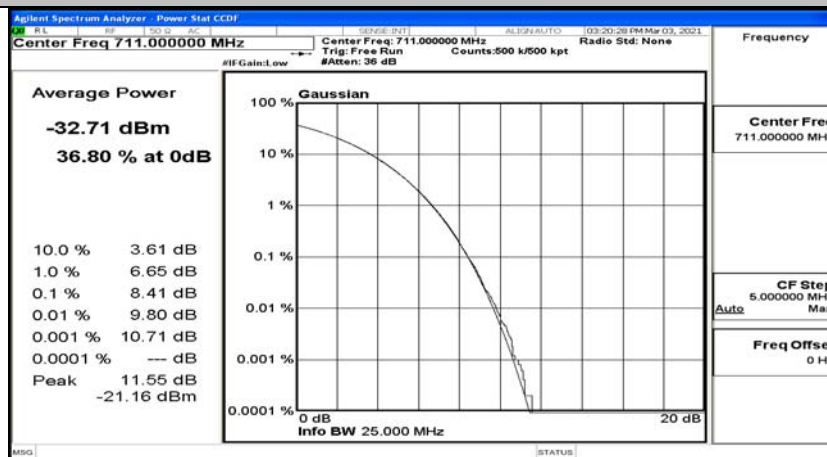
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



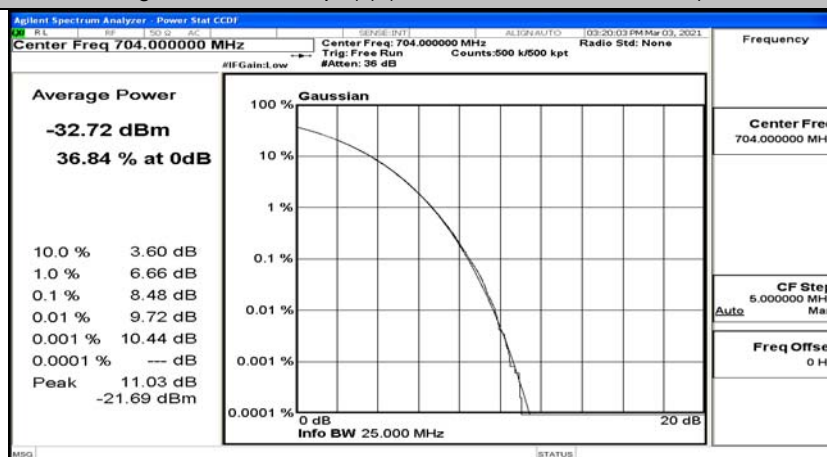
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



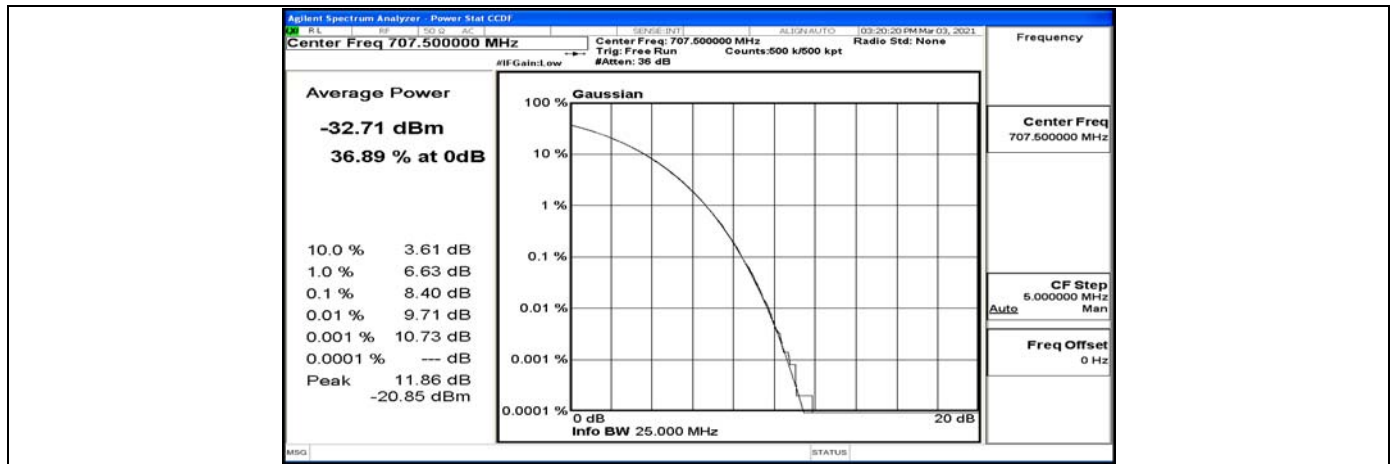
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



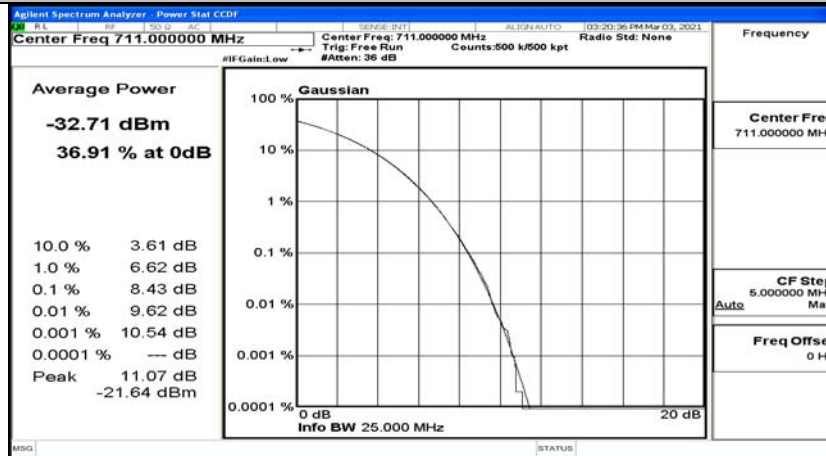
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



E.3 26dB Bandwidth and Occupied Bandwidth

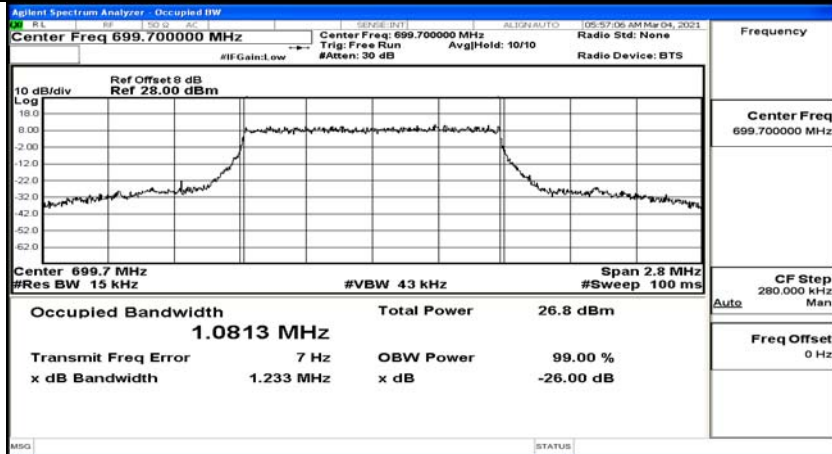
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0813	1.233	PASS
	MCH	1.0783	1.234	PASS
	HCH	1.0787	1.236	PASS
16QAM	LCH	1.0804	1.235	PASS
	MCH	1.0793	1.206	PASS
	HCH	1.0797	1.233	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6855	0.7038	PASS
	MCH	2.6855	2.863	PASS
	HCH	2.6788	2.891	PASS
16QAM	LCH	2.6804	2.918	PASS
	MCH	2.6819	2.881	PASS
	HCH	2.6831	2.879	PASS

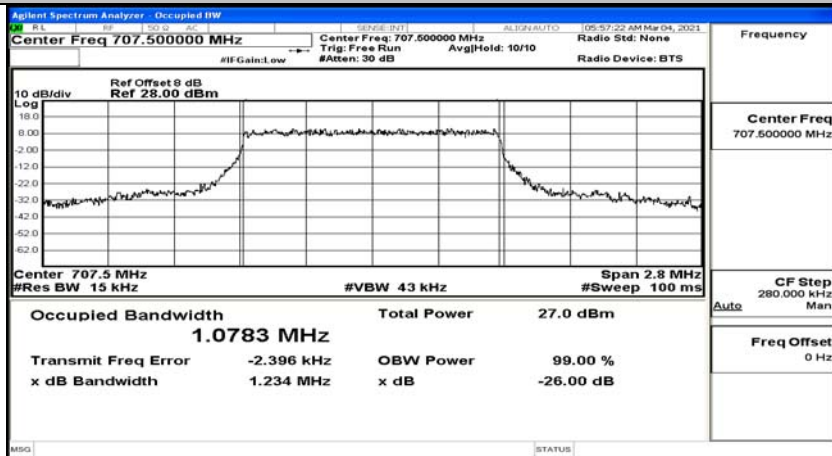
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4798	10.00	PASS
	MCH	4.4798	4.799	PASS
	HCH	4.4556	4.766	PASS
16QAM	LCH	4.4678	4.785	PASS
	MCH	4.4811	4.856	PASS
	HCH	4.4811	10.00	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9165	9.425	PASS
	MCH	8.9374	9.397	PASS
	HCH	8.9096	9.381	PASS
16QAM	LCH	8.9101	9.403	PASS
	MCH	8.9443	9.410	PASS
	HCH	8.9202	9.352	PASS

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



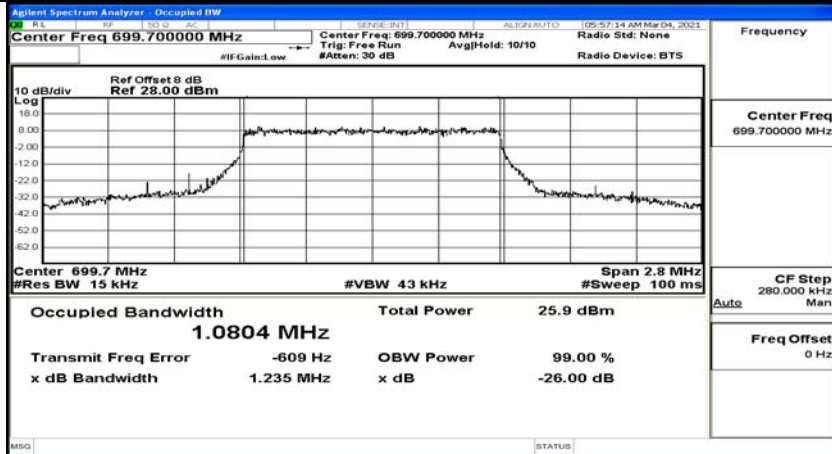
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



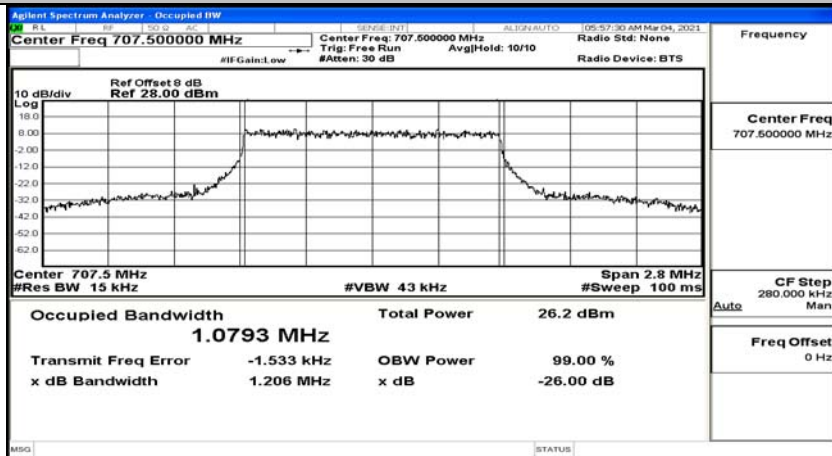
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



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



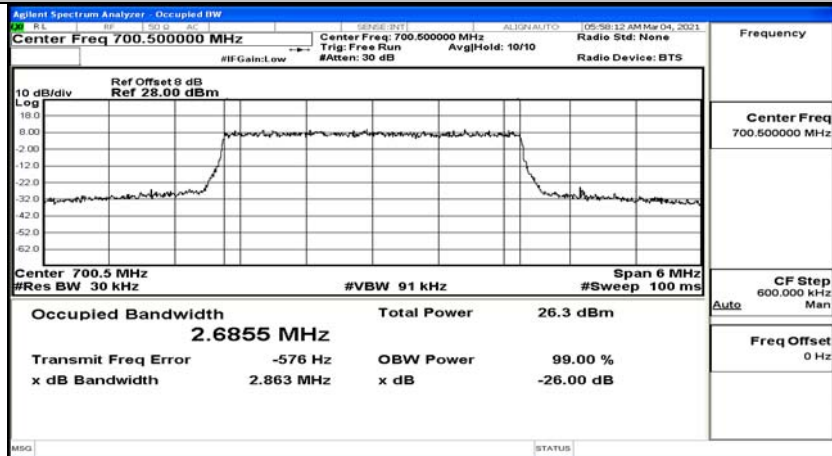
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



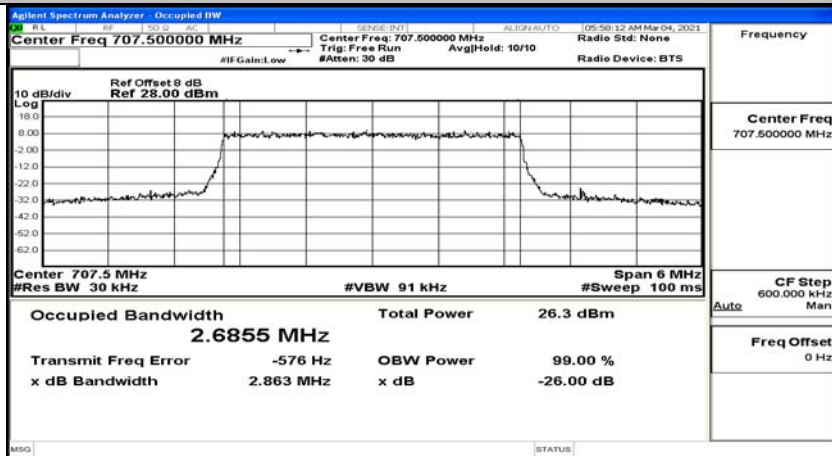
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



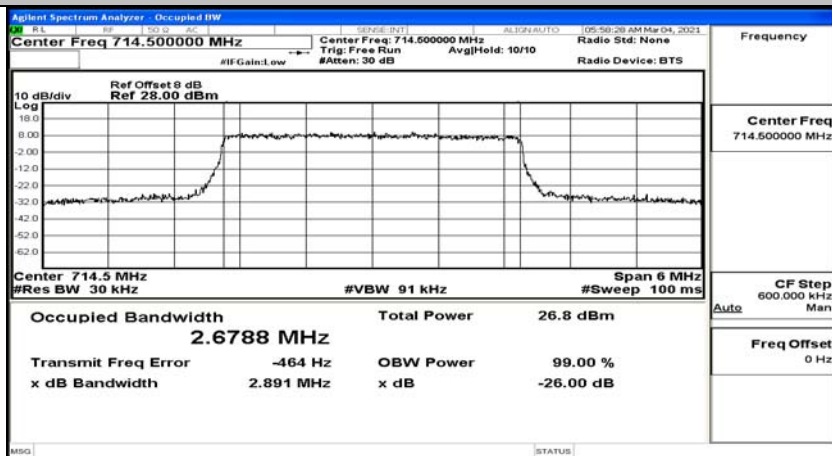
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



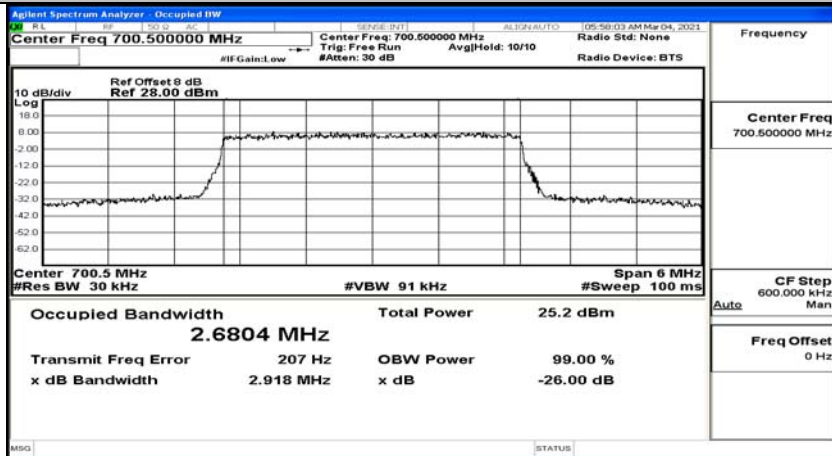
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



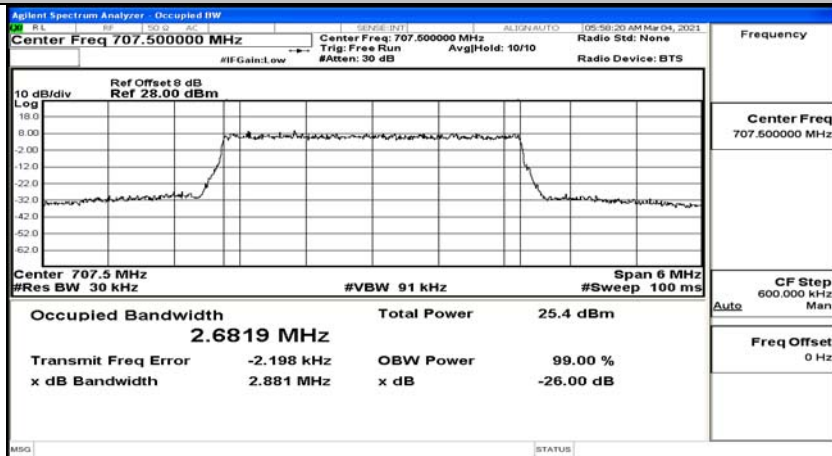
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



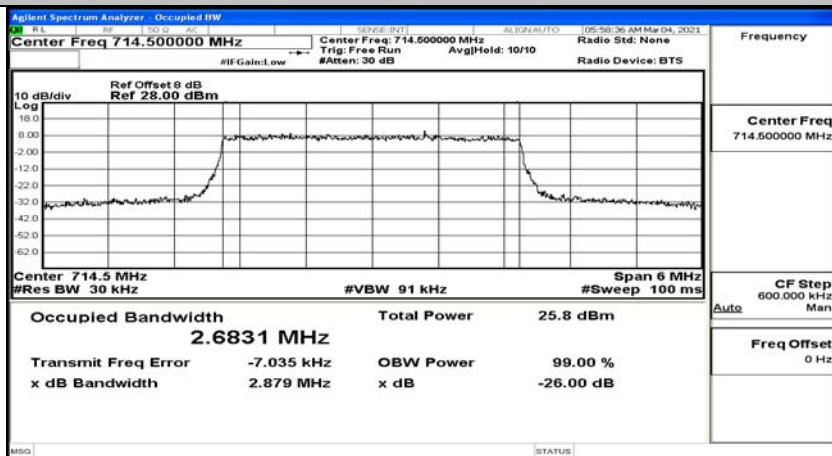
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



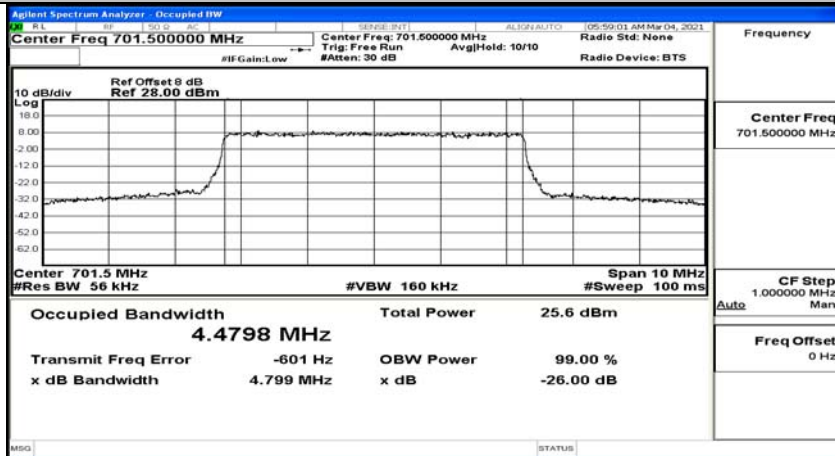
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



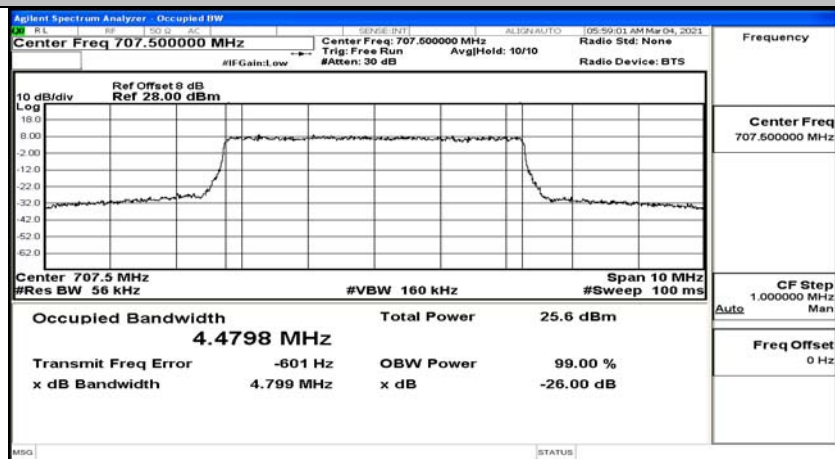
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



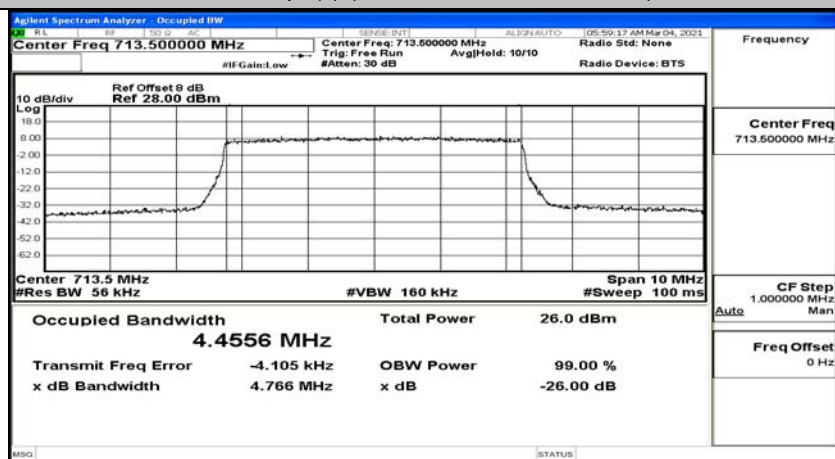
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



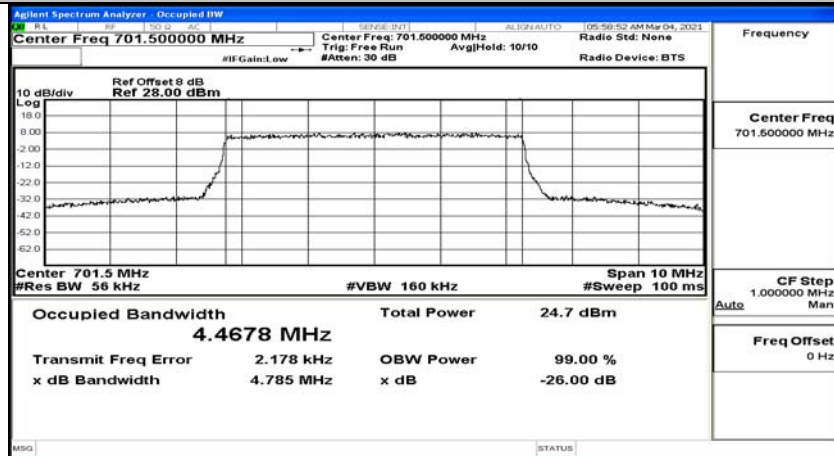
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



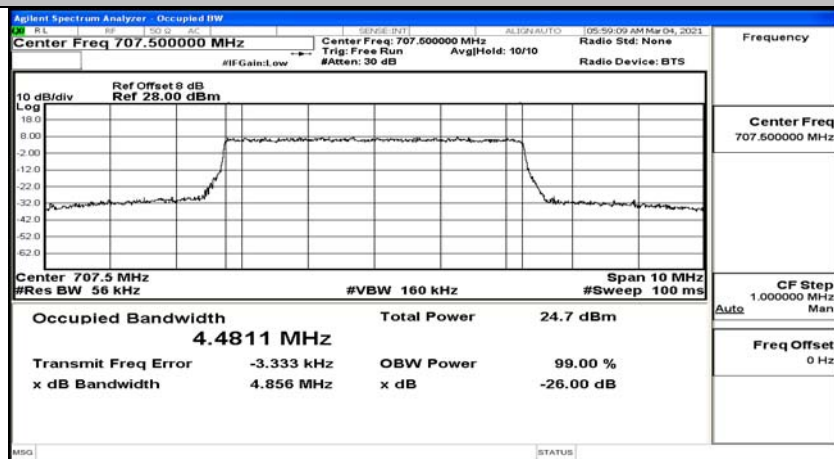
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



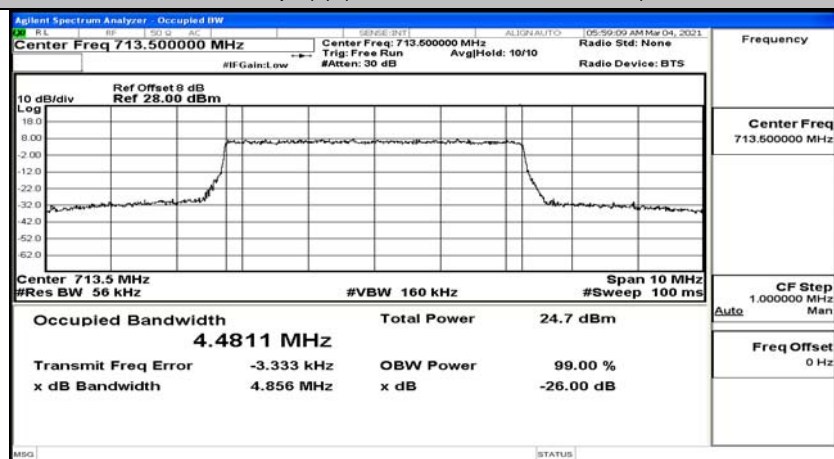
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



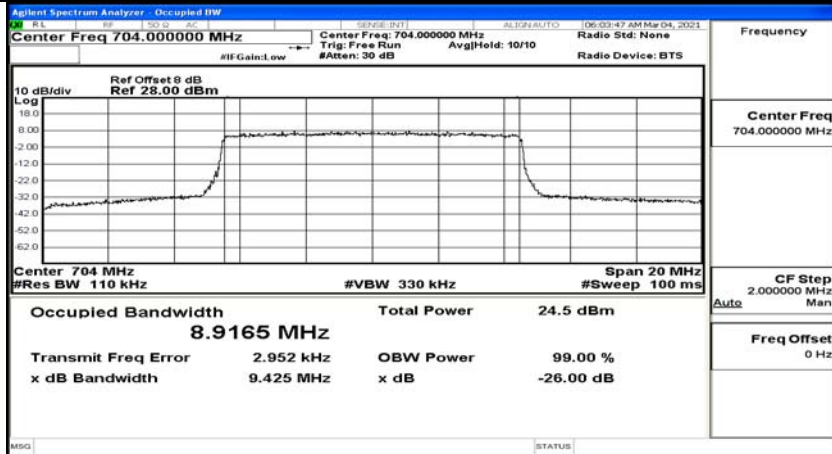
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



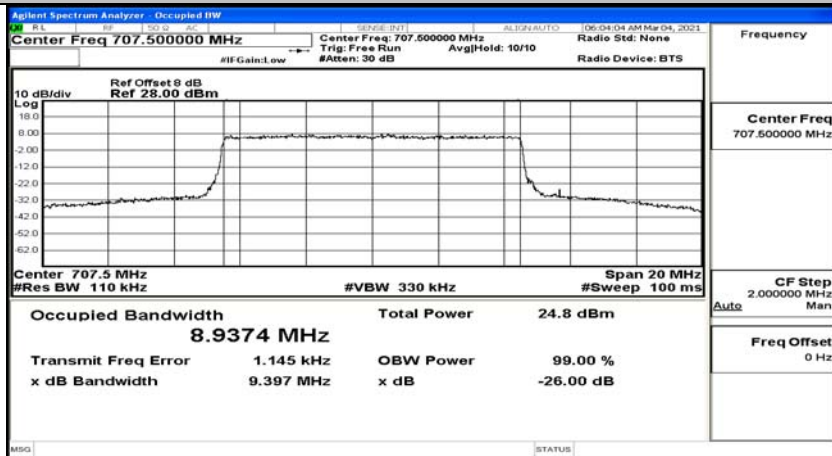
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



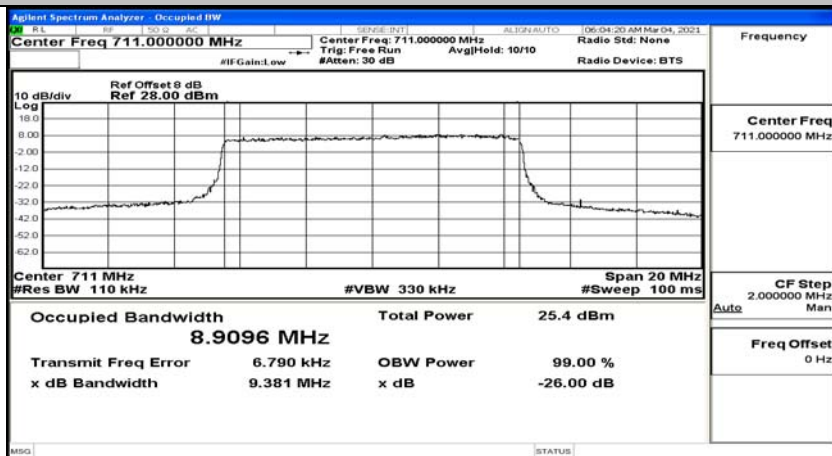
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



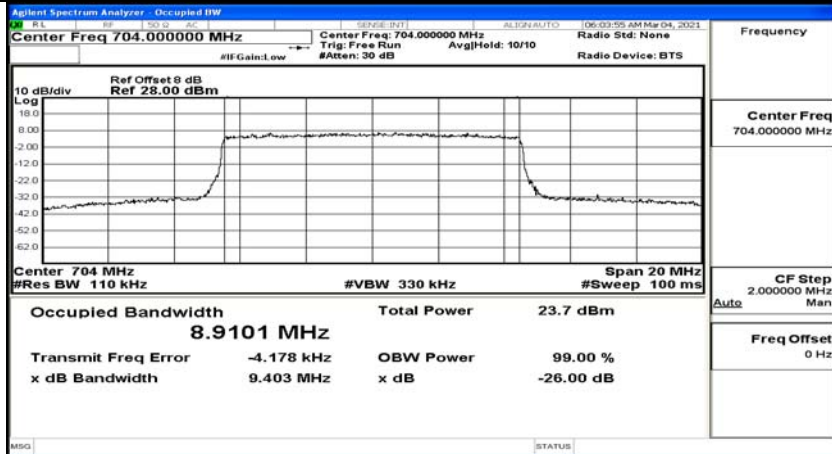
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



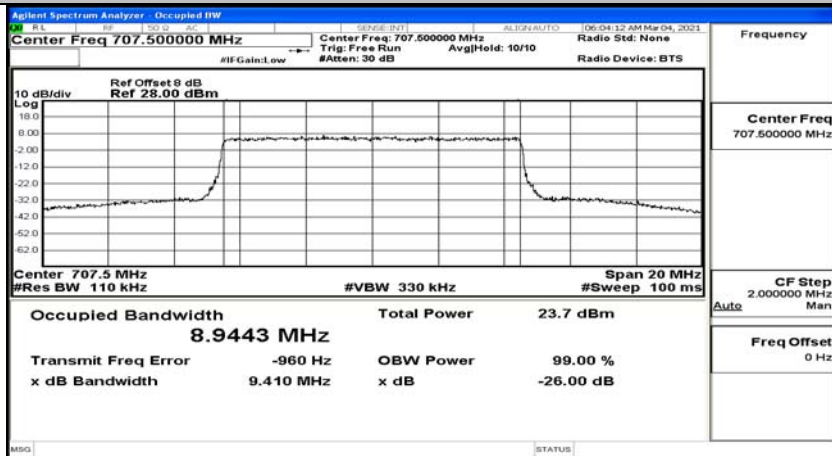
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



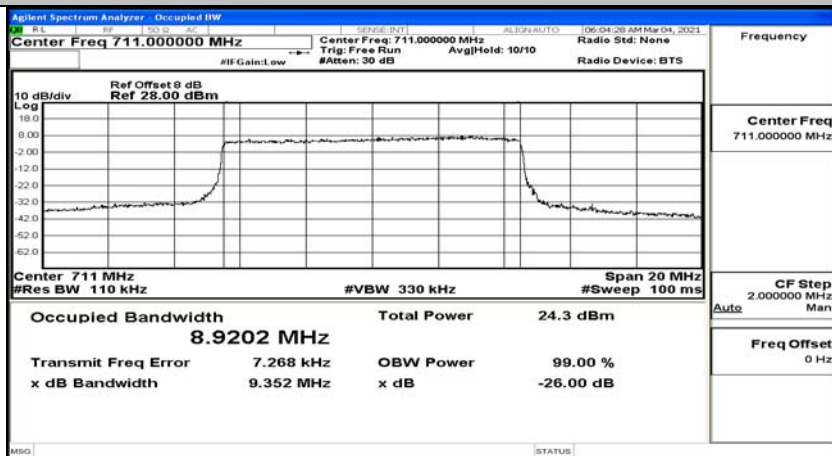
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

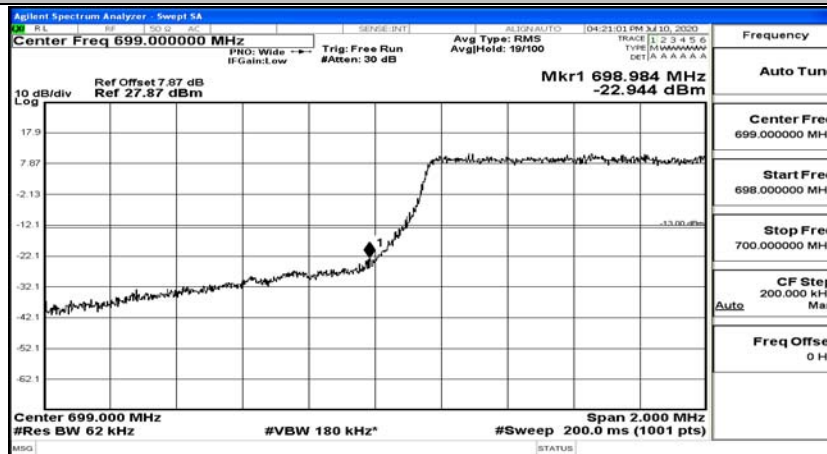


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

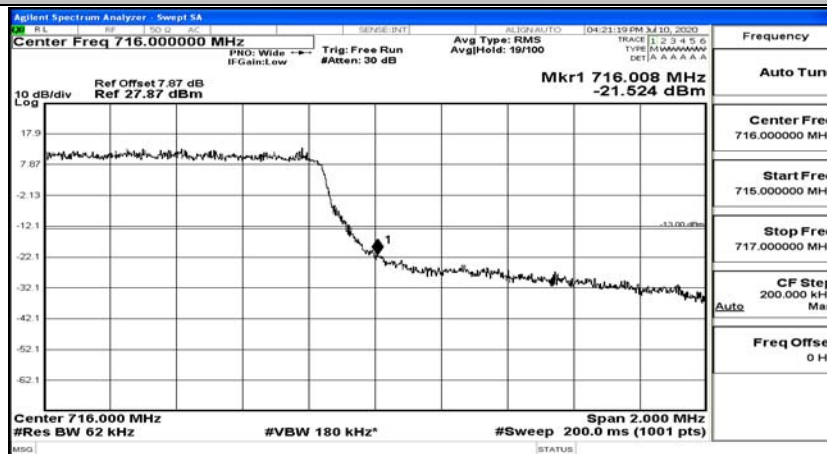


E.4 Band Edge

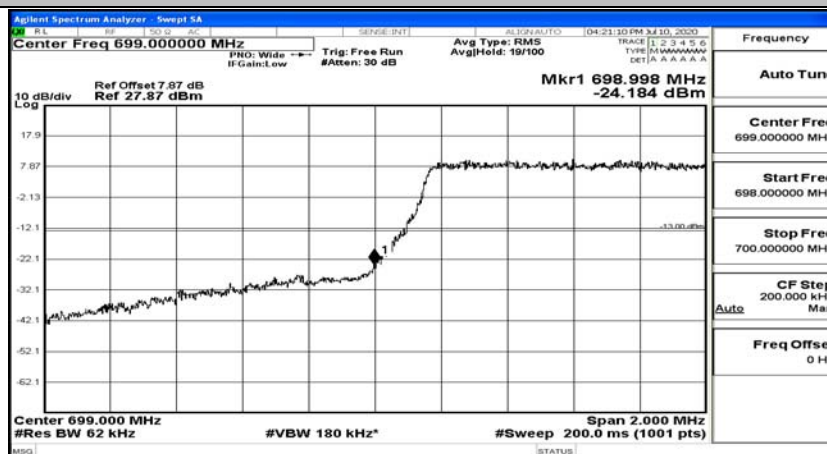
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



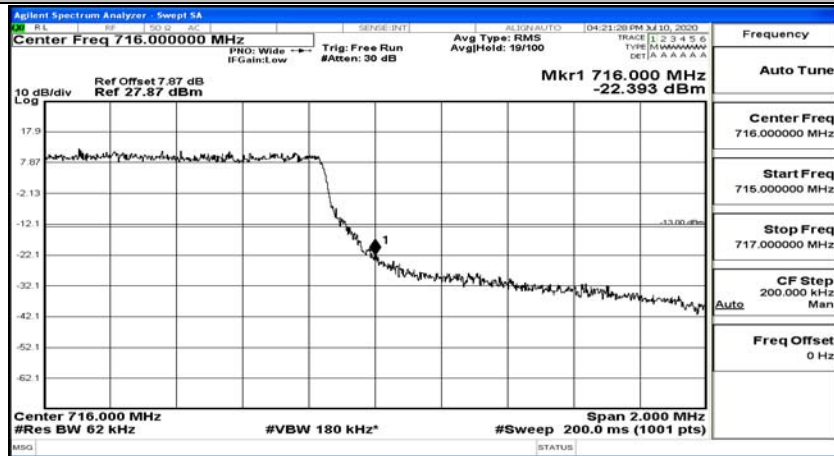
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



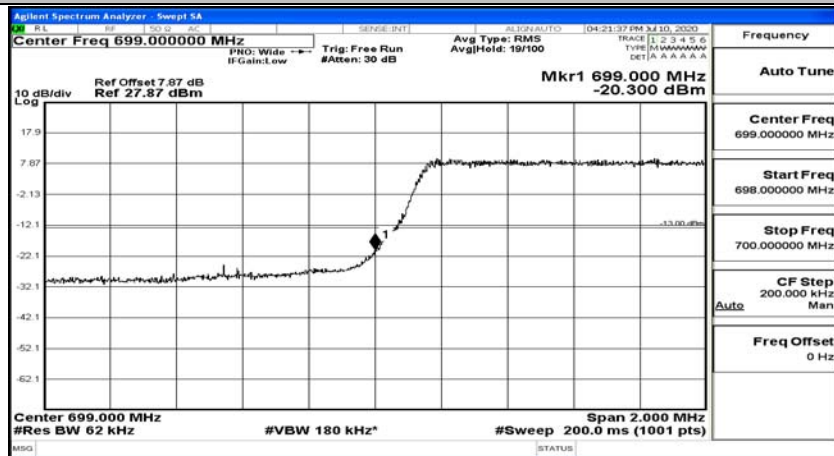
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



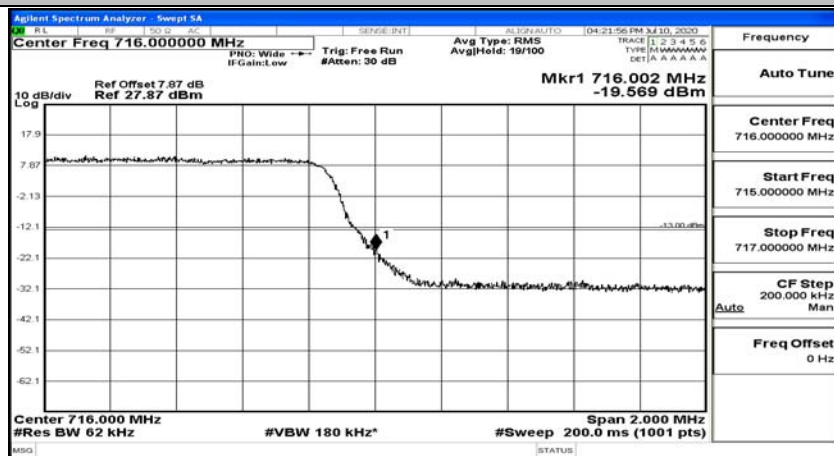
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



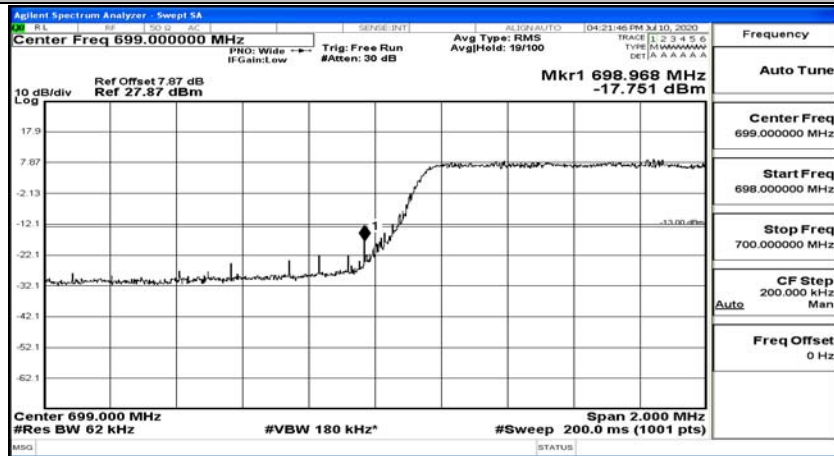
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



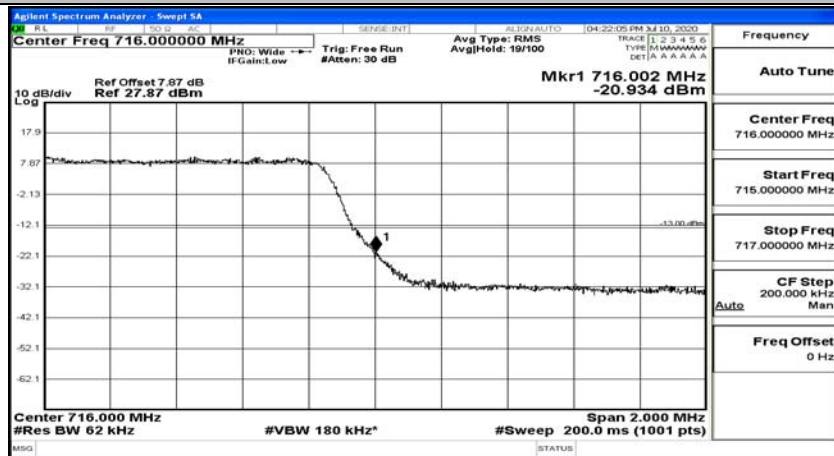
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



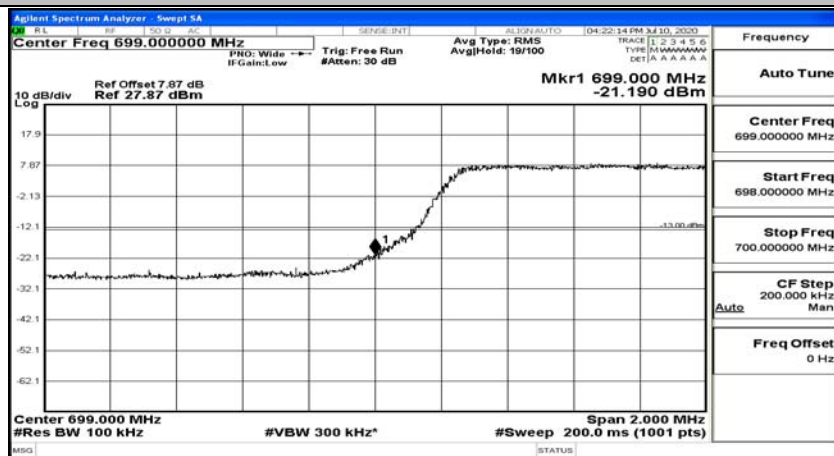
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



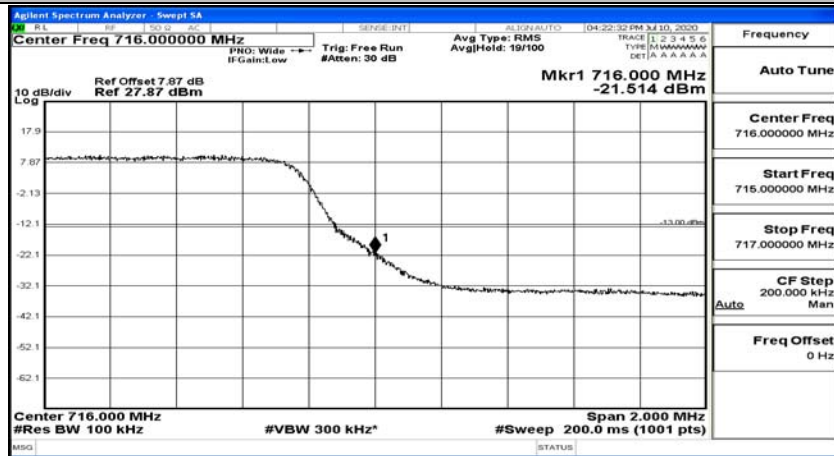
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



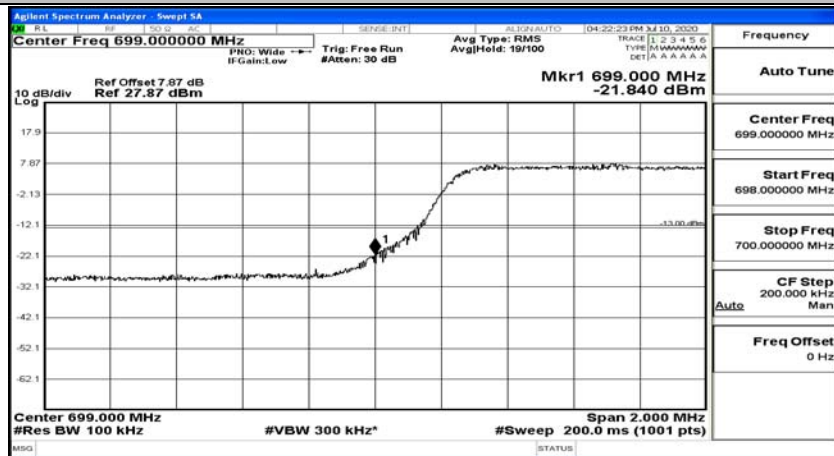
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



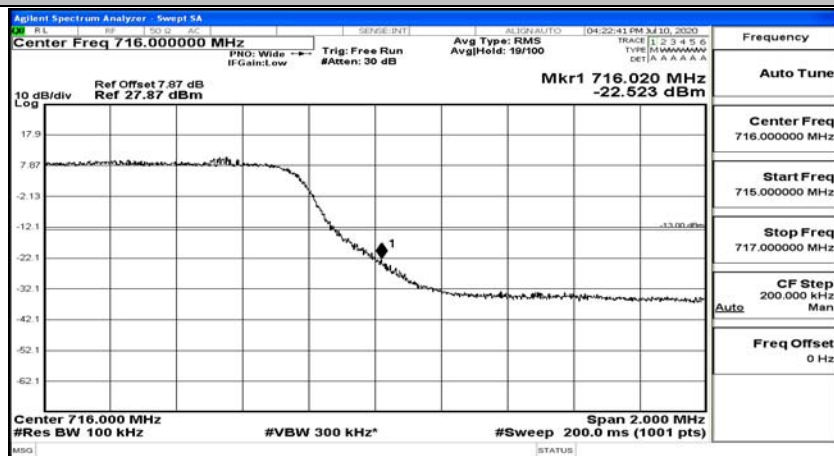
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



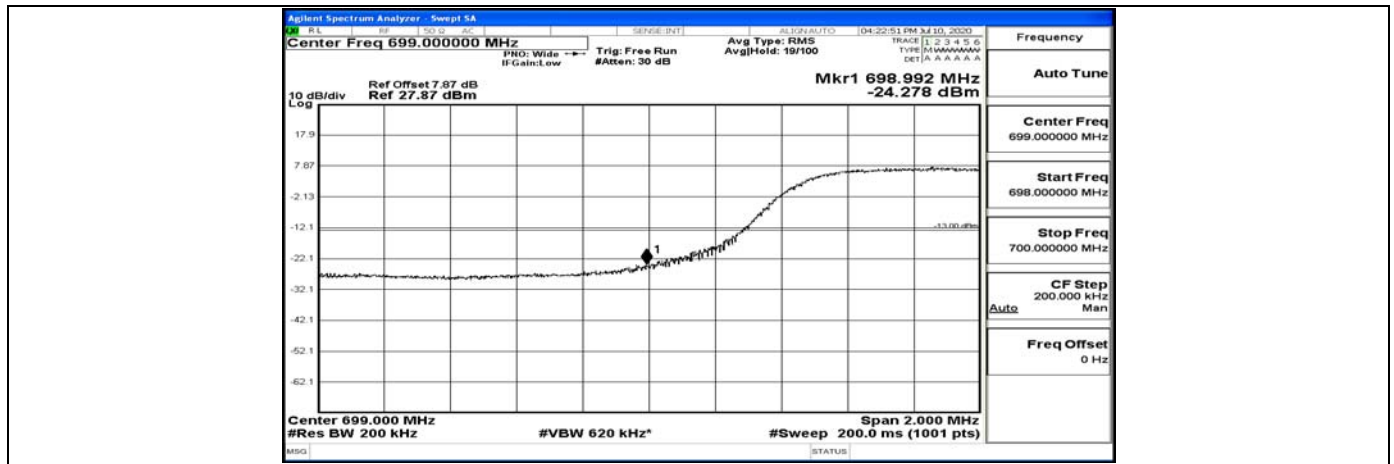
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



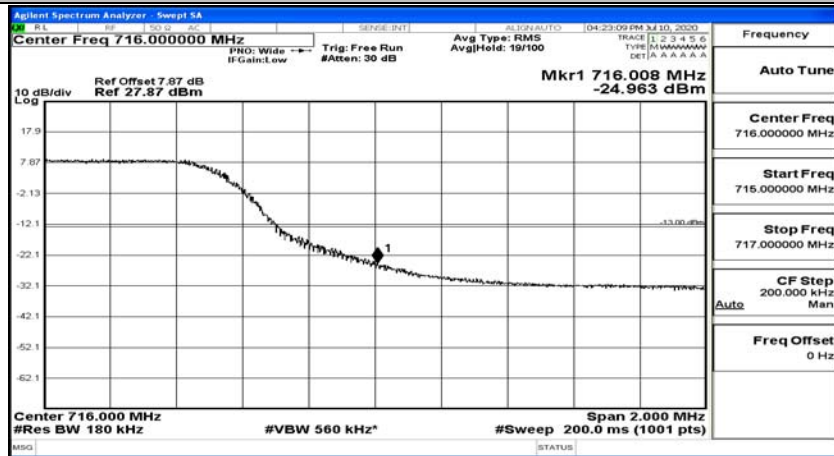
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



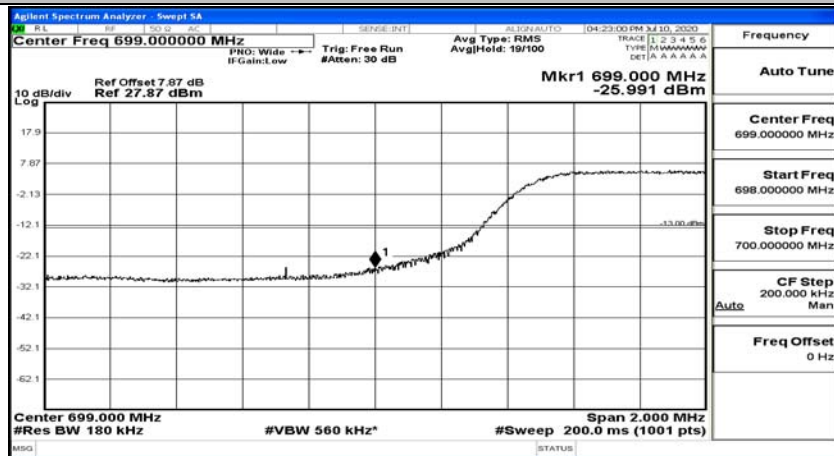
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



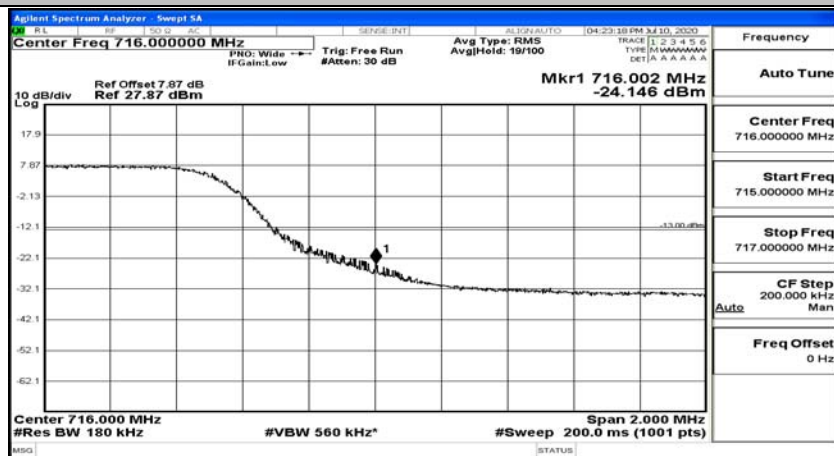
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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



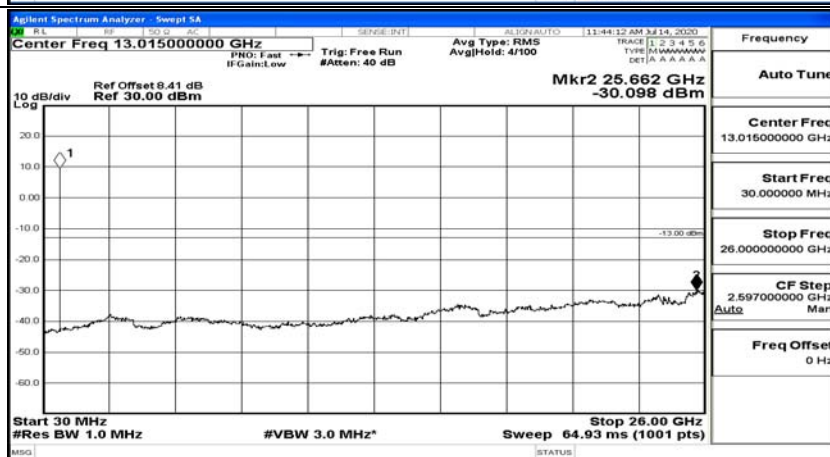
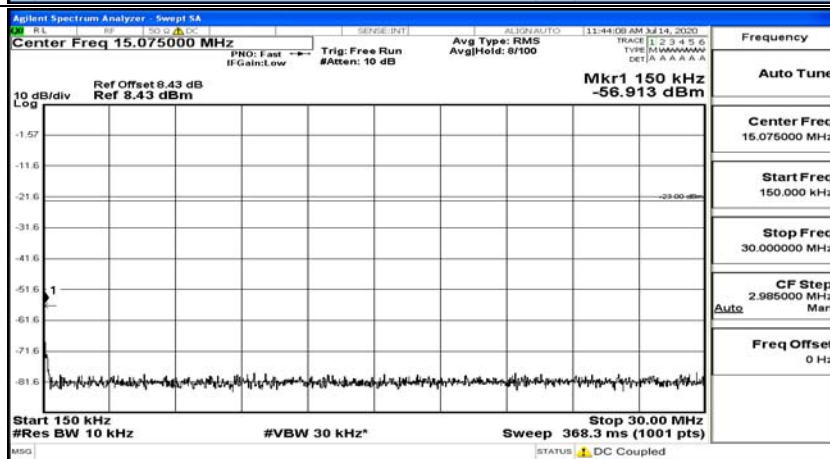
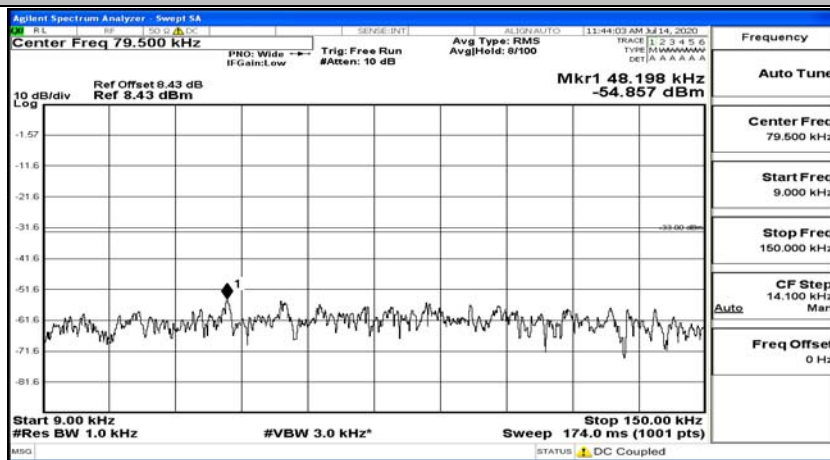
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



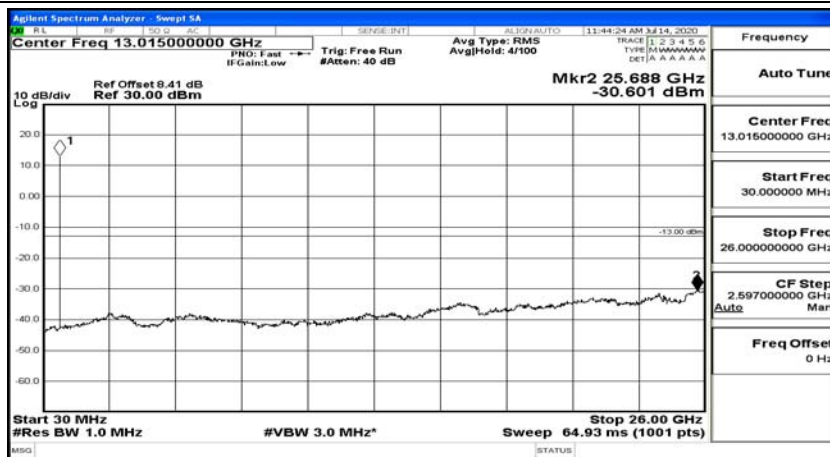
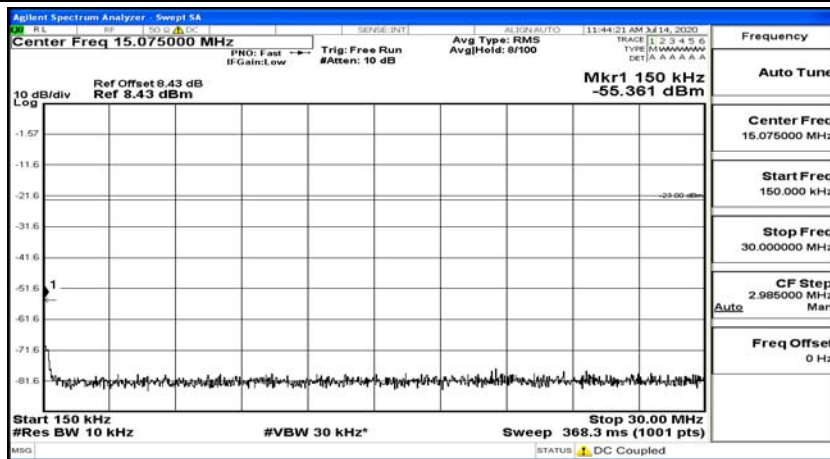
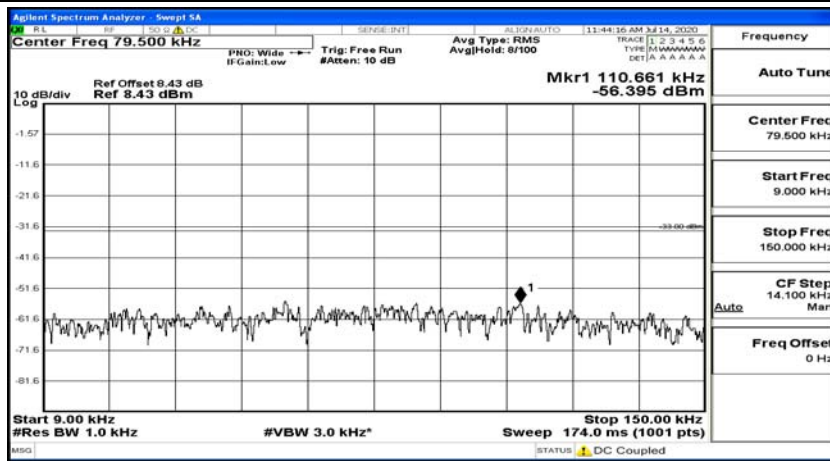
E.5 Conducted Spurious Emission

Channel Bandwidth: 1.4 MHz

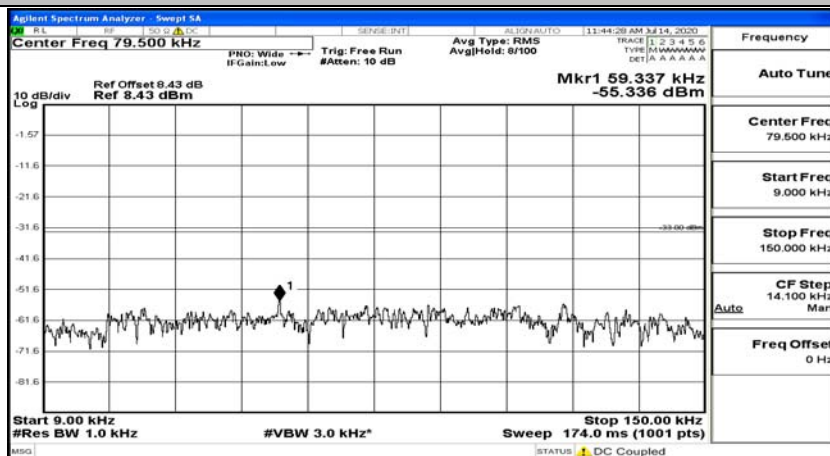
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0

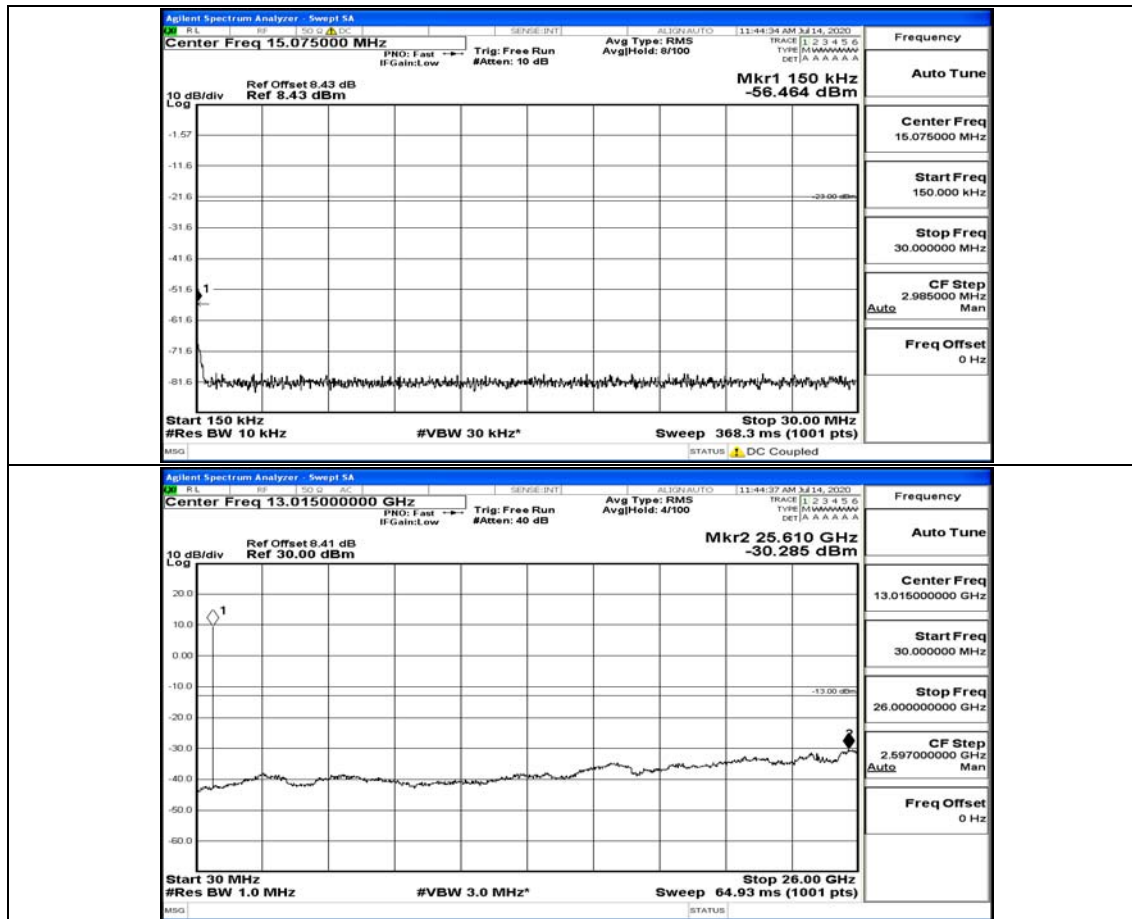


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

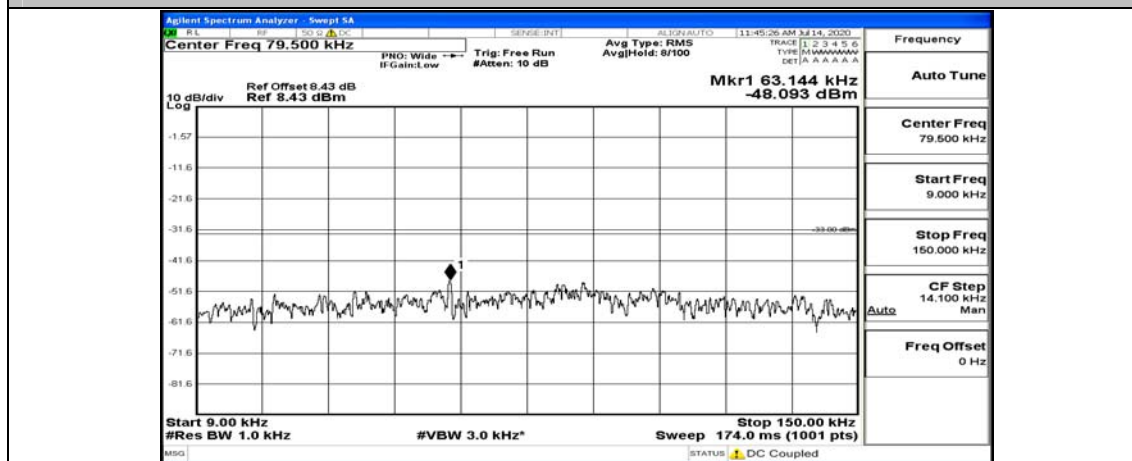


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



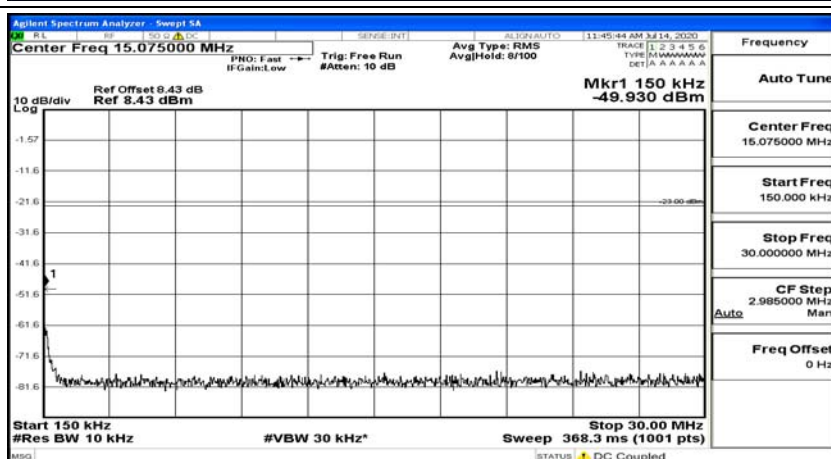


(Channel Bandwidth: 1.4 MHz)_MCH_OPSK_1RB#0



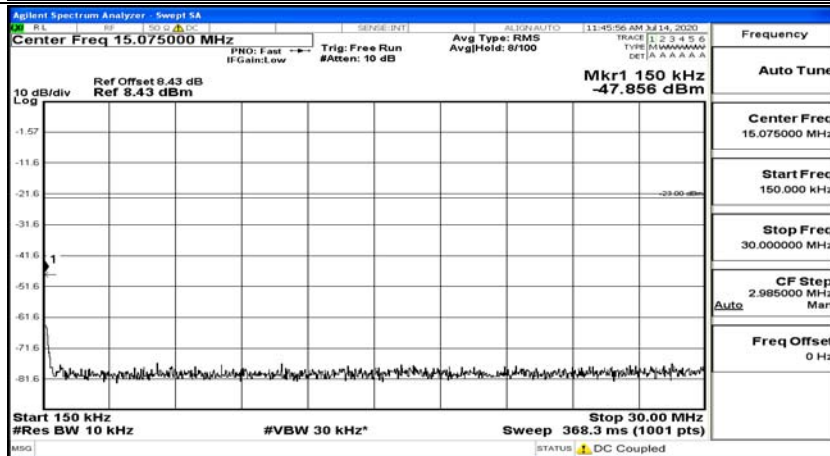
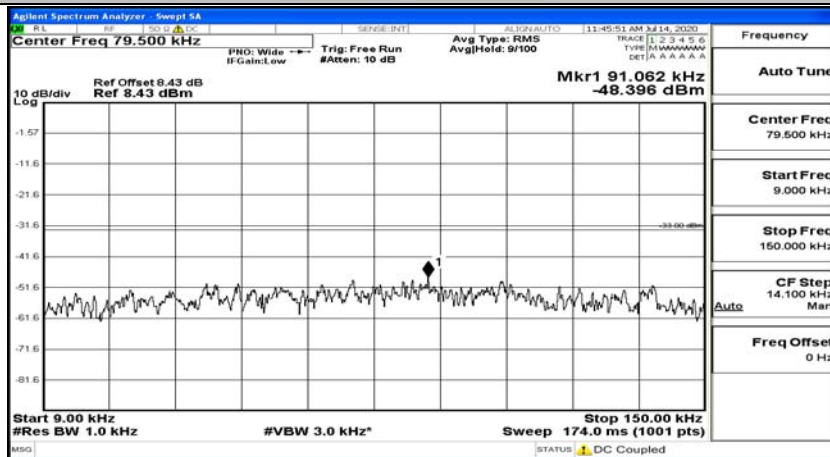


(Channel Bandwidth: 1.4 MHz) MCH QPSK 1RB#3

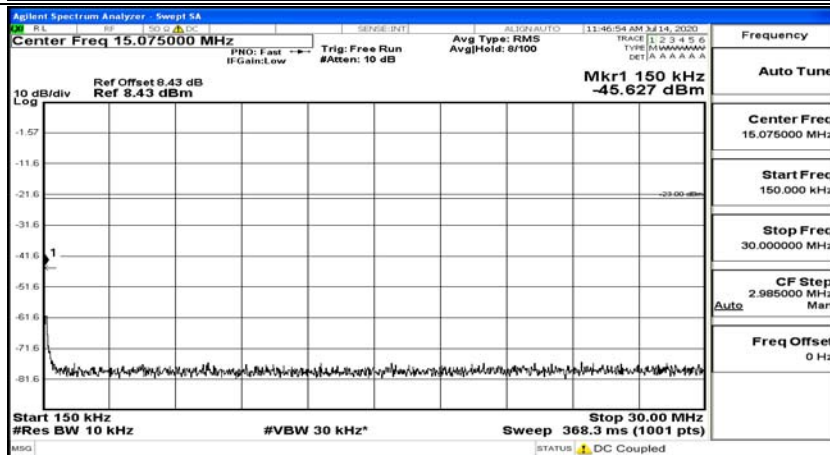
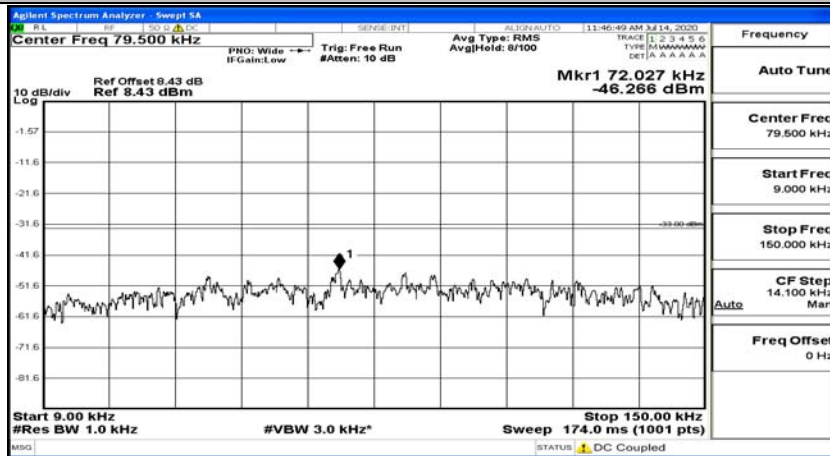




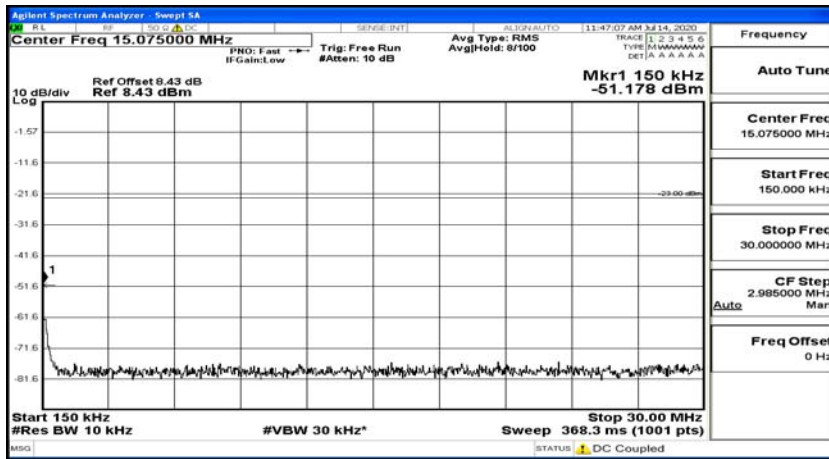
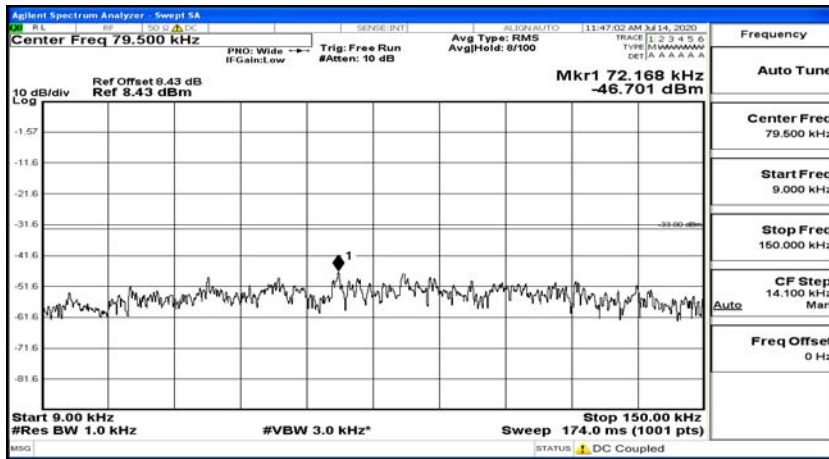
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



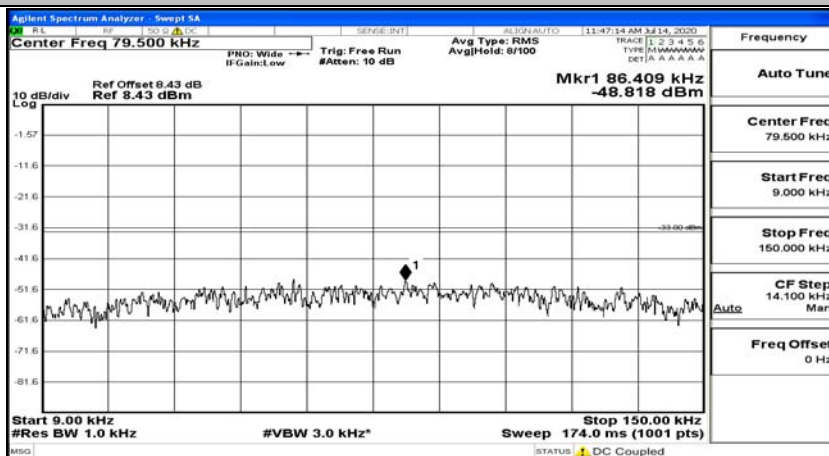
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

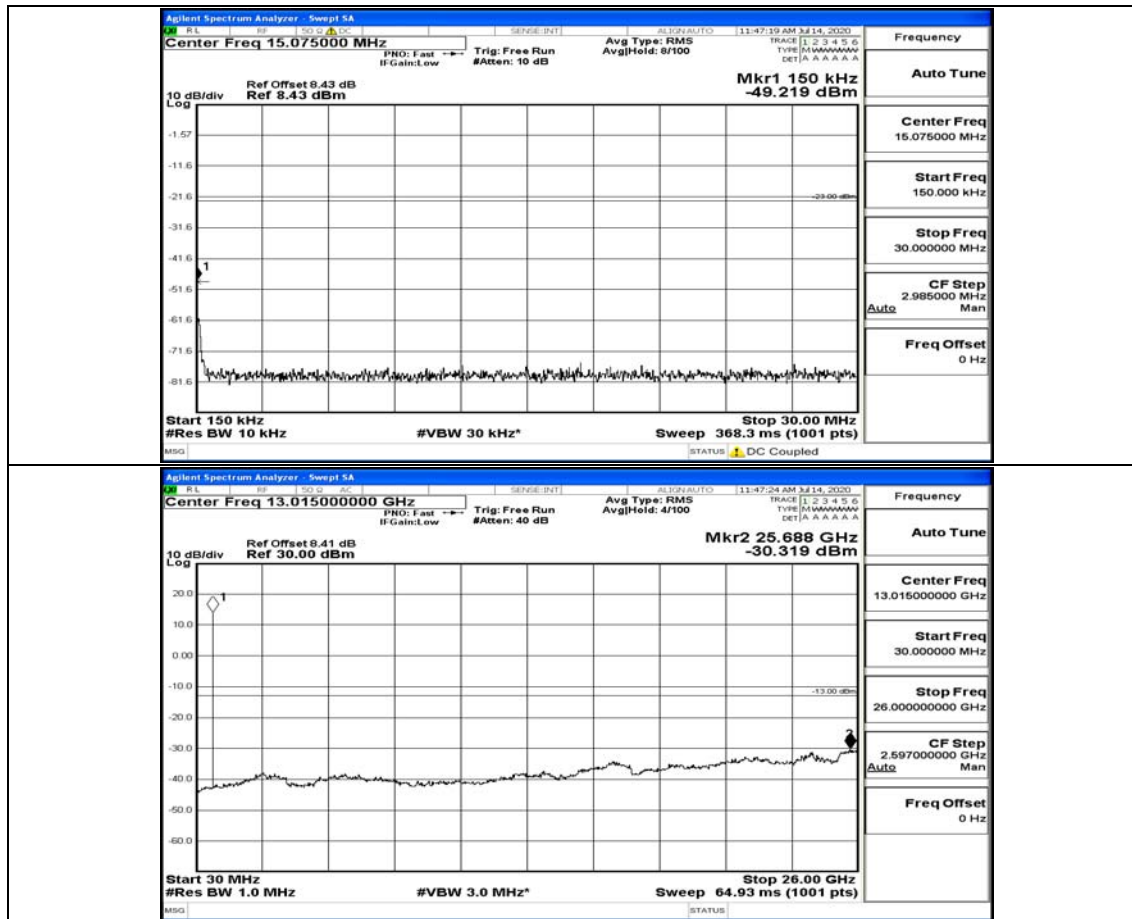


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3

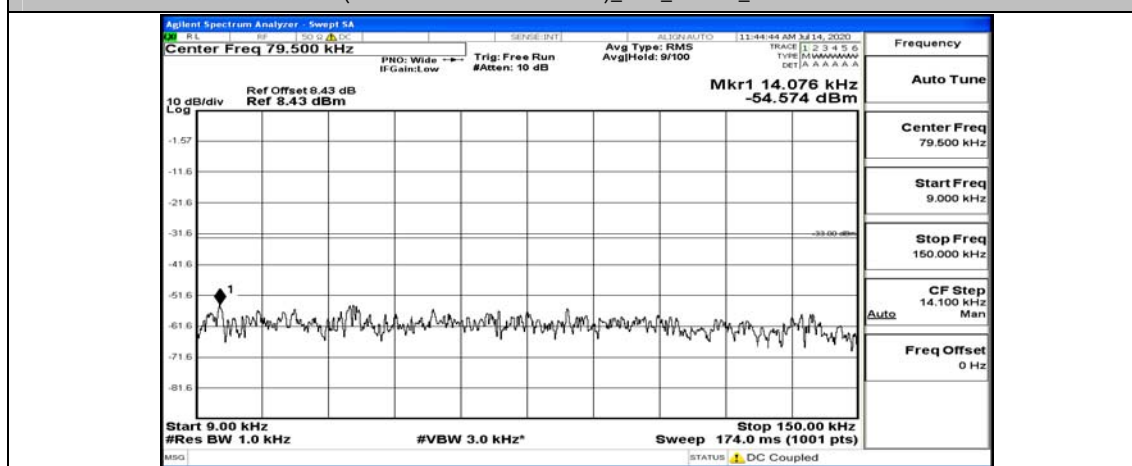


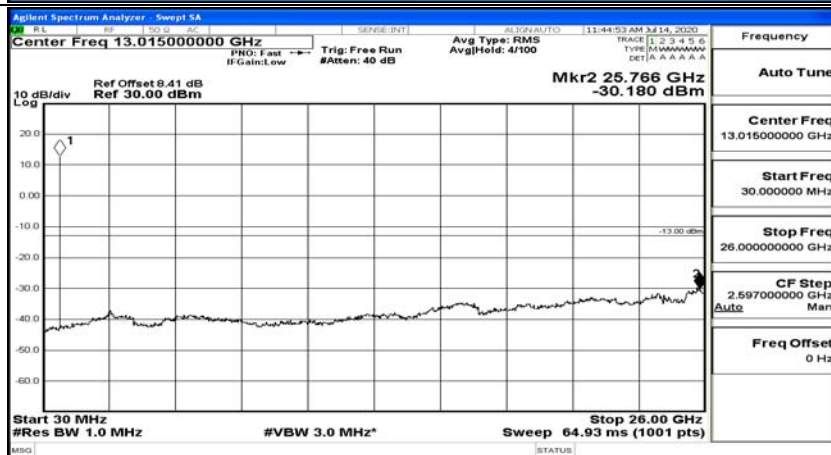
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



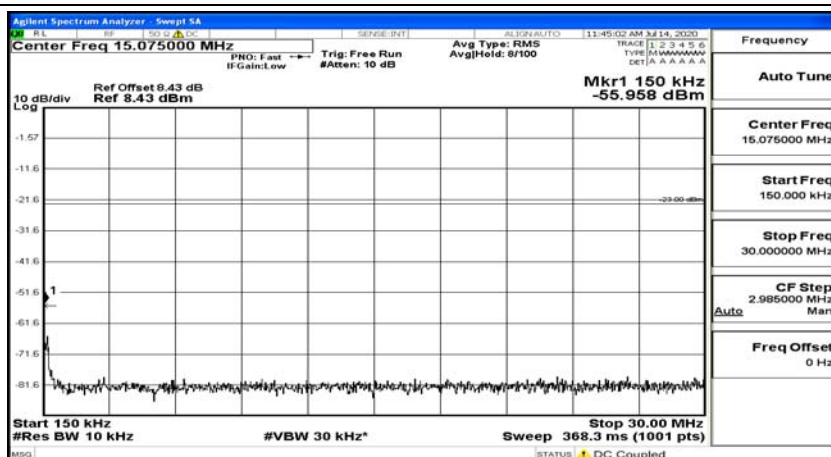
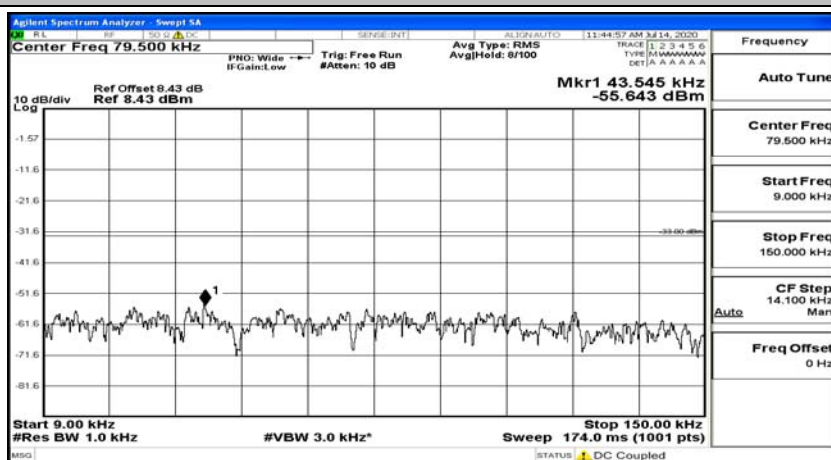


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



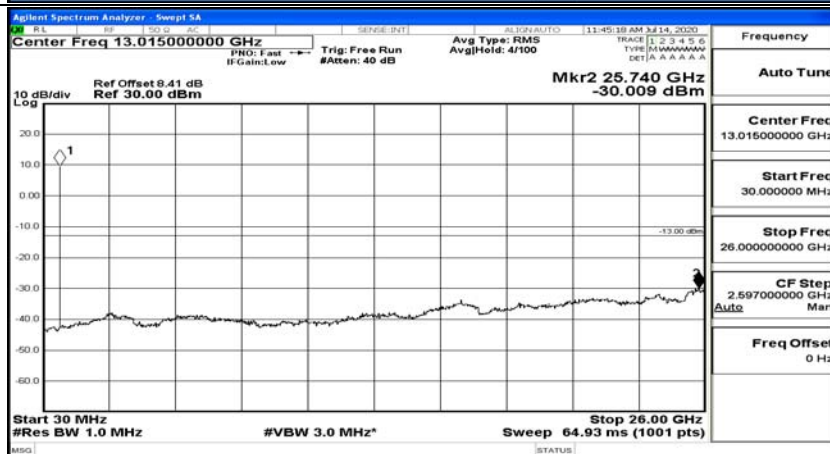
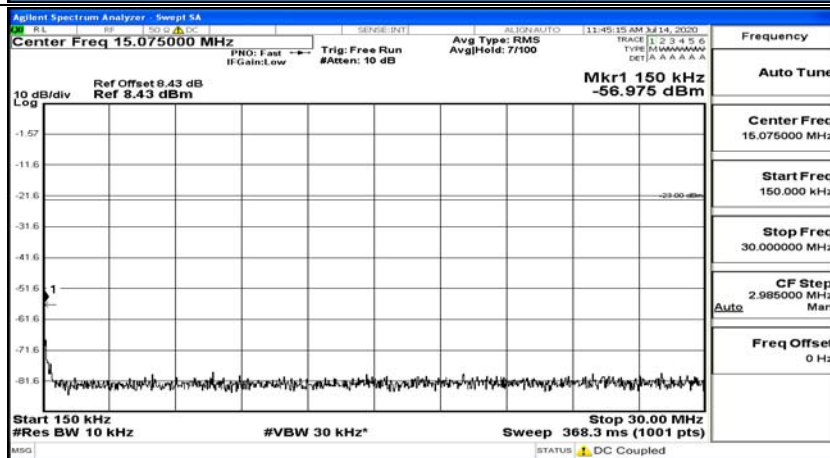
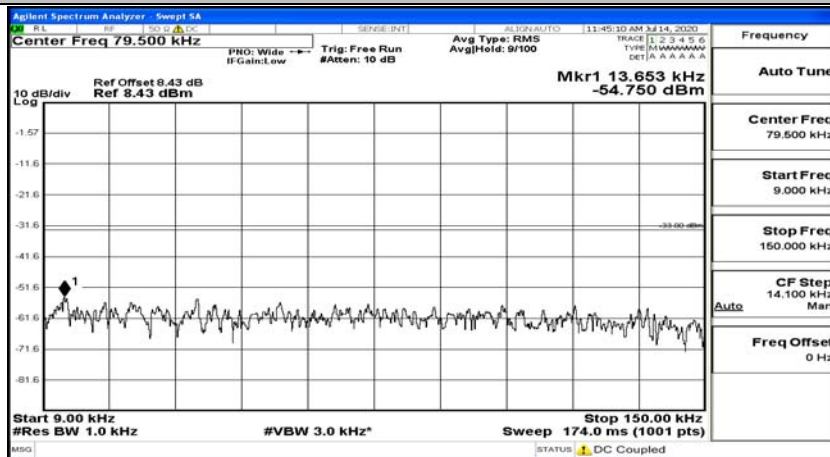


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

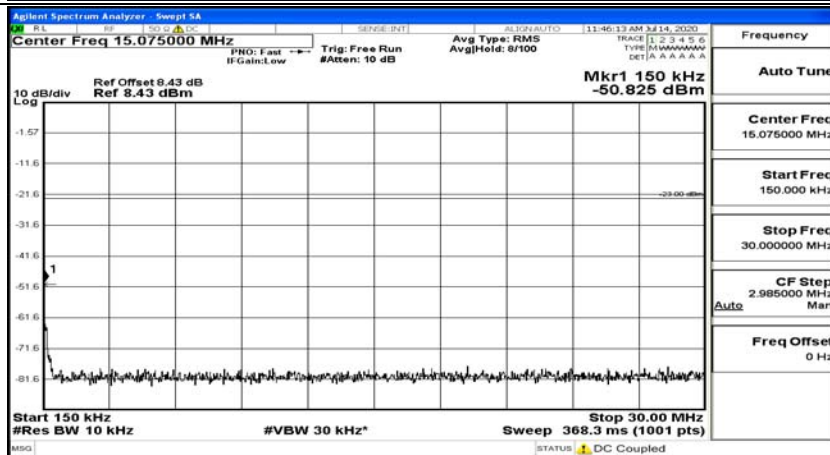
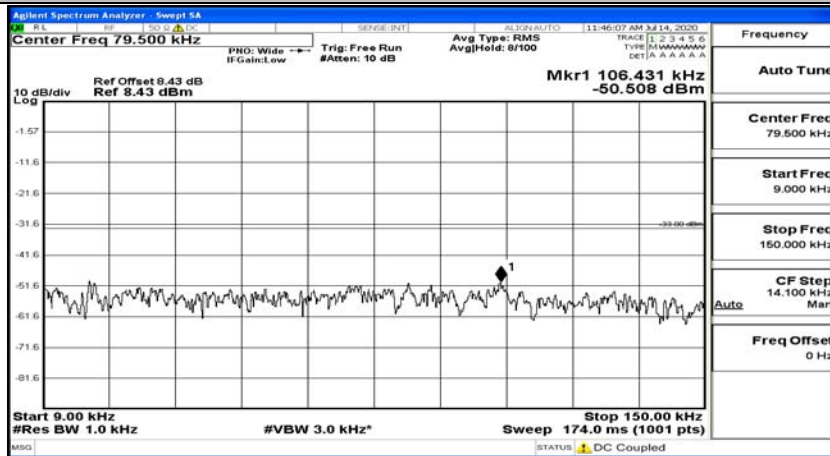




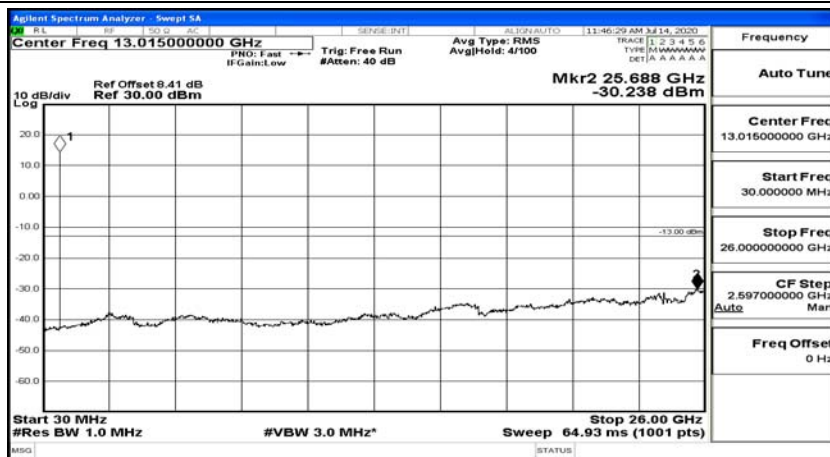
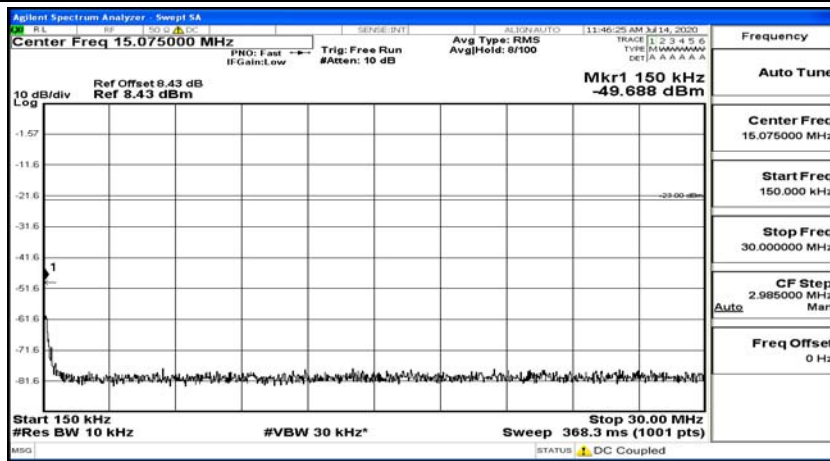
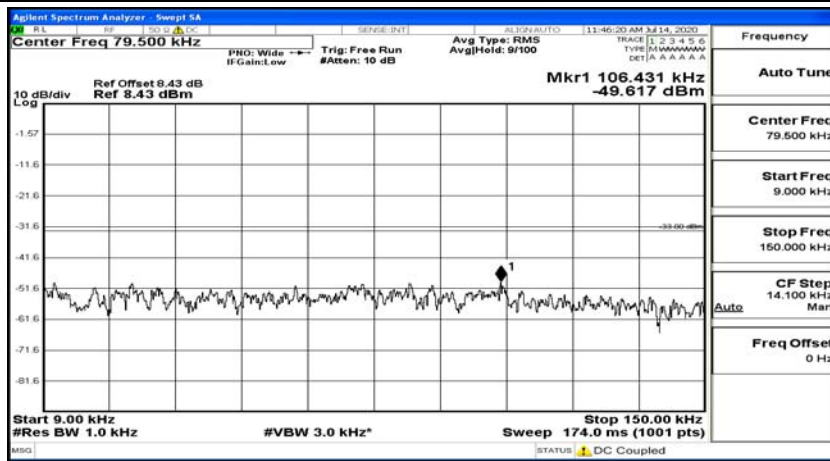
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



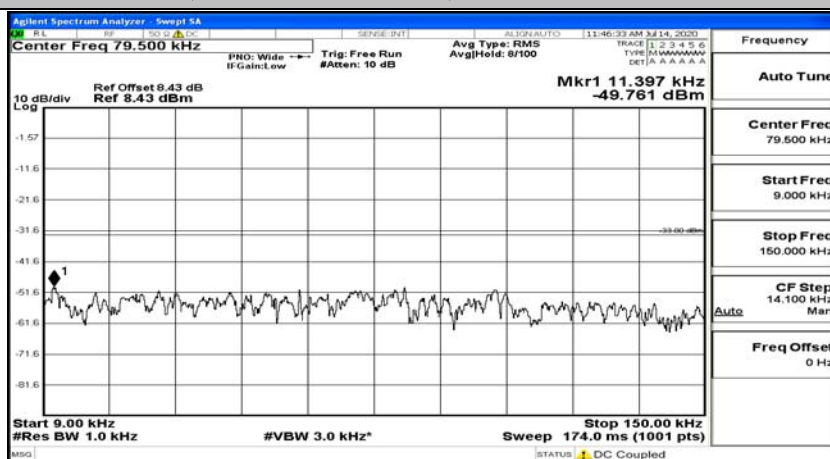
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0

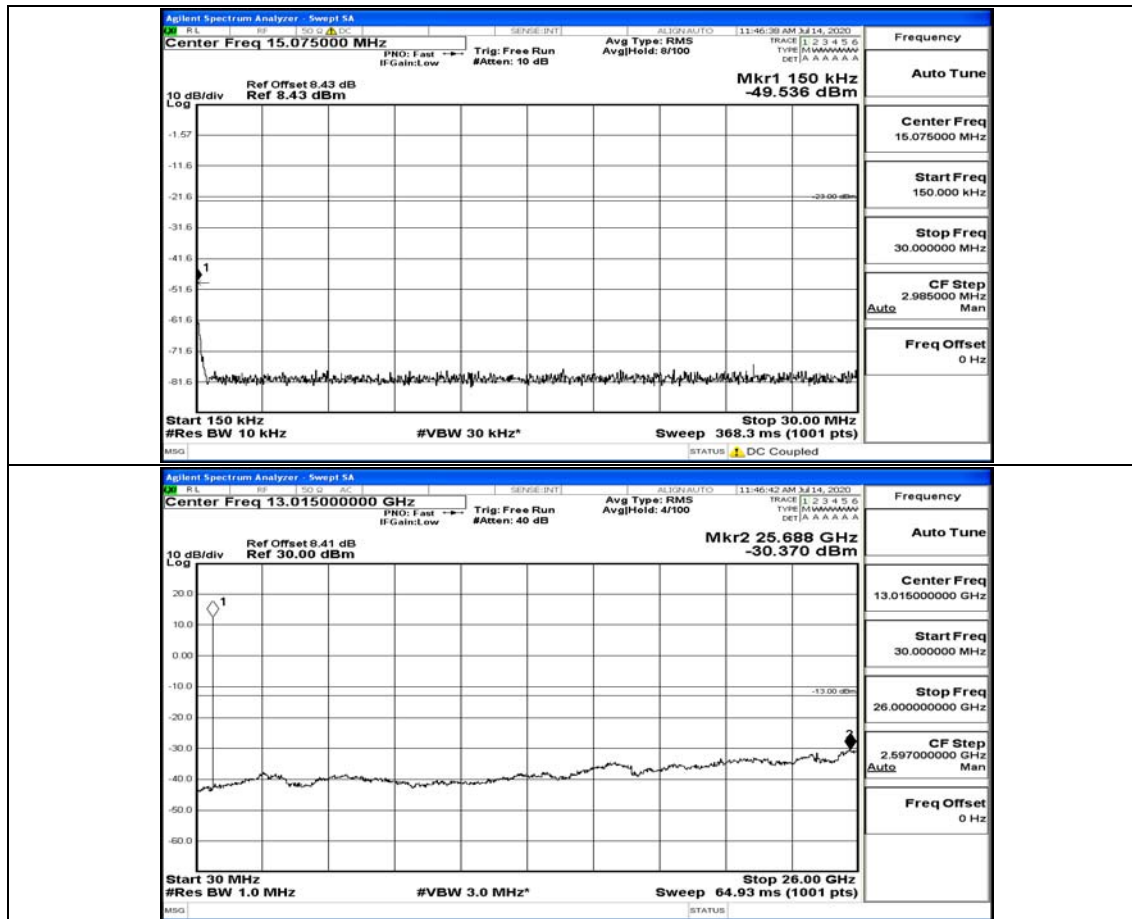


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3

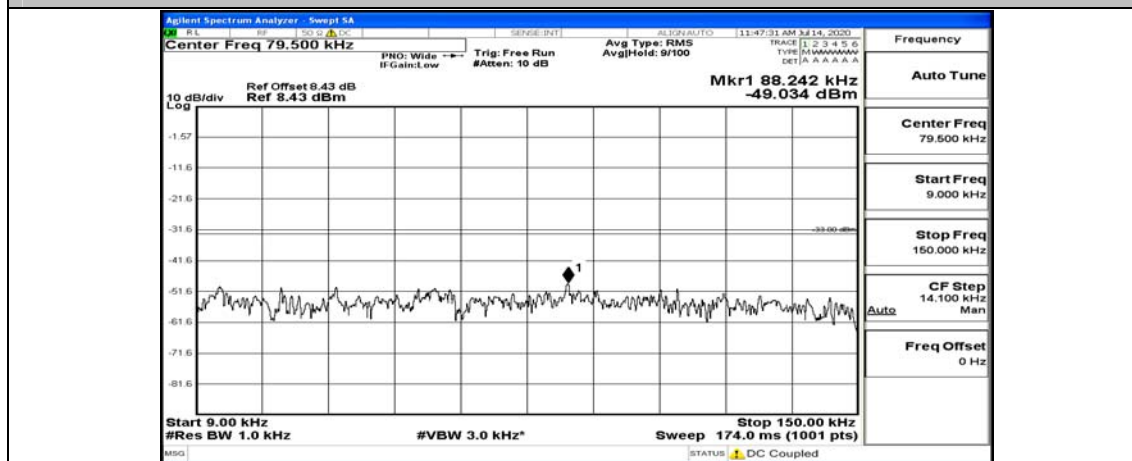


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5





(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0





(Channel Bandwidth: 1.4 MHz) HCH 16QAM 1RB#3

