

Appendix H: Test Data for E-UTRA Band 5

Product Name: KIDS WATCH

Test Model: BUBBLE

Environmental Conditions

Temperature:	23.7 °C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang Chuang

H.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	23.47	22.64	PASS
		1	3	23.54	22.71	PASS
		1	5	23.41	22.54	PASS
		3	0	23.46	22.58	PASS
		3	2	23.51	22.59	PASS
		3	3	23.49	22.52	PASS
		6	0	23.47	22.60	PASS
	MCH	1	0	23.39	22.62	PASS
		1	3	23.38	22.74	PASS
		1	5	23.25	22.59	PASS
		3	0	23.48	22.42	PASS
		3	2	23.35	22.32	PASS
		3	3	23.41	22.31	PASS
		6	0	23.37	22.57	PASS
	HCH	1	0	22.28	21.47	PASS
		1	3	22.34	21.55	PASS
		1	5	22.29	21.49	PASS
		3	0	22.31	21.41	PASS
		3	2	22.32	21.27	PASS
		3	3	22.31	21.44	PASS
		6	0	22.33	21.52	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	O11set			
QPSK / 16QAM	LCH	1	0	23.50	22.63	PASS
		1	7	23.58	22.82	PASS
		1	14	23.31	22.58	PASS
		8	0	22.43	21.48	PASS
		8	4	22.48	21.45	PASS
		8	7	22.39	21.40	PASS
		15	0	23.47	22.62	PASS
	MCH	1	0	23.43	22.56	PASS
		1	7	23.52	22.69	PASS
		1	14	23.18	22.39	PASS
		8	0	22.33	21.42	PASS
		8	4	22.41	21.48	PASS
		8	7	22.30	21.32	PASS
		15	0	23.43	22.51	PASS
	HCH	1	0	22.39	21.83	PASS
		1	7	22.52	21.88	PASS
		1	14	22.31	21.62	PASS
		8	0	22.39	21.41	PASS
		8	4	22.44	21.38	PASS
		8	7	22.32	21.34	PASS
		15	0	22.45	21.83	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	23.36	22.70	PASS
		1	12	23.62	22.94	PASS
		1	24	23.26	22.56	PASS
		12	0	22.34	21.53	PASS
		12	6	22.45	21.51	PASS
		12	13	22.43	21.46	PASS
		25	0	23.42	22.66	PASS
	MCH	1	0	23.28	22.61	PASS
		1	12	23.75	22.86	PASS
		1	24	23.03	22.35	PASS
		12	0	22.40	21.59	PASS
		12	6	22.41	21.58	PASS
		12	13	22.26	21.40	PASS
		25	0	23.33	22.62	PASS
	HCH	1	0	22.61	21.48	PASS
		1	12	22.63	21.72	PASS
		1	24	22.26	21.19	PASS
		12	0	22.59	21.62	PASS
		12	6	22.52	21.68	PASS
		12	13	22.25	21.48	PASS
		25	0	22.58	21.49	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	23.58	22.75	PASS
		1	24	23.61	22.90	PASS
		1	49	23.49	22.70	PASS
		25	0	22.53	21.51	PASS
		25	12	22.55	21.58	PASS
		25	25	22.36	21.38	PASS
		50	0	23.57	22.74	PASS
	MCH	1	0	23.58	22.72	PASS
		1	24	23.63	22.88	PASS
		1	49	23.03	22.22	PASS
		25	0	22.77	21.63	PASS
		25	12	22.49	21.49	PASS
		25	25	22.47	21.39	PASS
		50	0	23.52	22.73	PASS
	HCH	1	0	23.09	22.42	PASS
		1	24	22.92	22.29	PASS
		1	49	22.38	21.66	PASS
		25	0	22.95	21.86	PASS
		25	12	22.87	21.81	PASS
		25	25	22.47	21.42	PASS
		50	0	23.07	22.45	PASS

H.2 Peak-to-Average Ratio

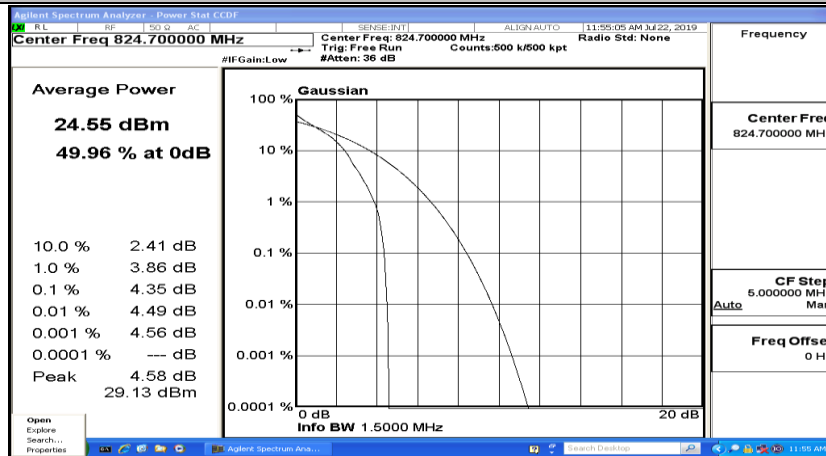
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.35	<13	PASS
	MCH	4.59	<13	PASS
	HCH	4.88	<13	PASS
16QAM	LCH	5.26	<13	PASS
	MCH	5.55	<13	PASS
	HCH	5.87	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.29	<13	PASS
	MCH	4.72	<13	PASS
	HCH	4.71	<13	PASS
16QAM	LCH	5.21	<13	PASS
	MCH	5.64	<13	PASS
	HCH	5.72	<13	PASS

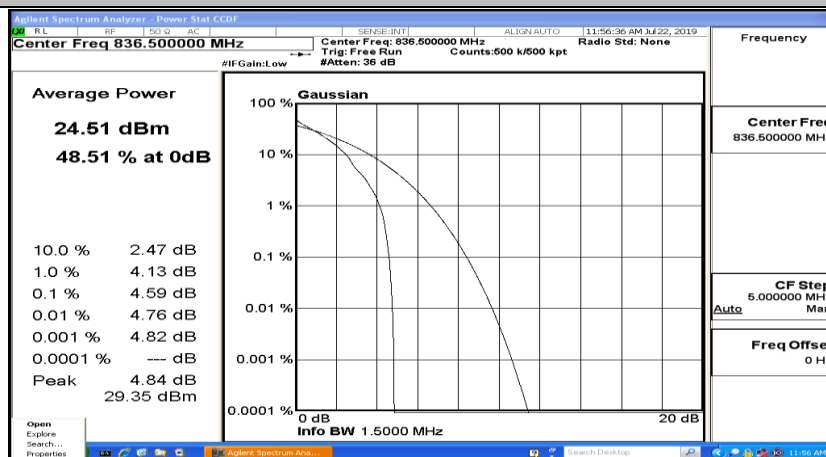
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.29	<13	PASS
	MCH	4.78	<13	PASS
	HCH	4.81	<13	PASS
16QAM	LCH	5.23	<13	PASS
	MCH	5.78	<13	PASS
	HCH	5.5	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.37	<13	PASS
	MCH	5.02	<13	PASS
	HCH	4.34	<13	PASS
16QAM	LCH	5.33	<13	PASS
	MCH	6.04	<13	PASS
	HCH	5.35	<13	PASS

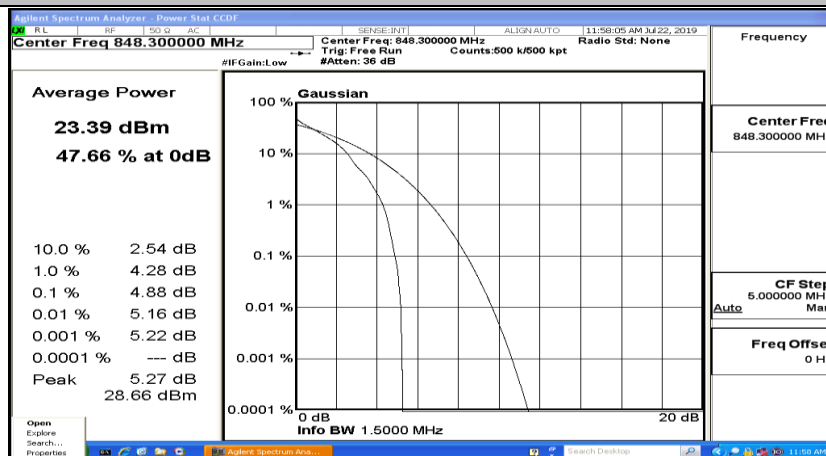
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



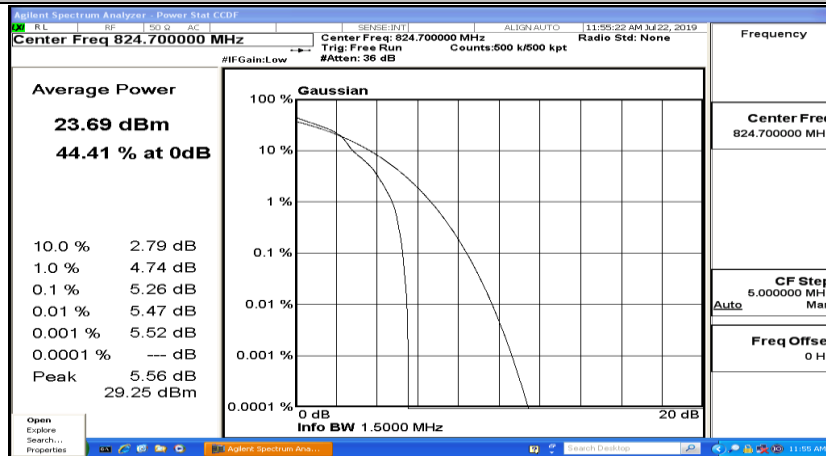
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



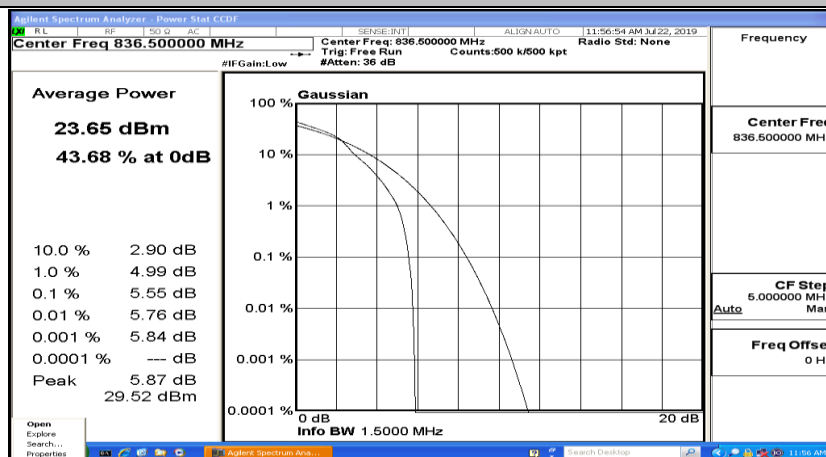
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



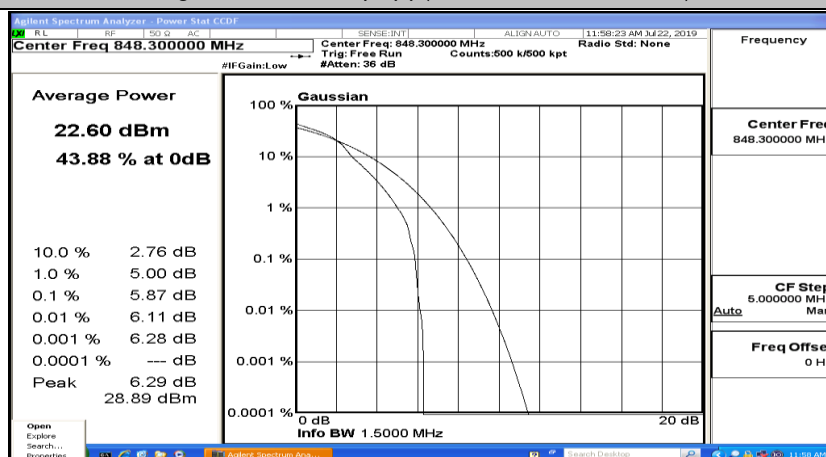
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



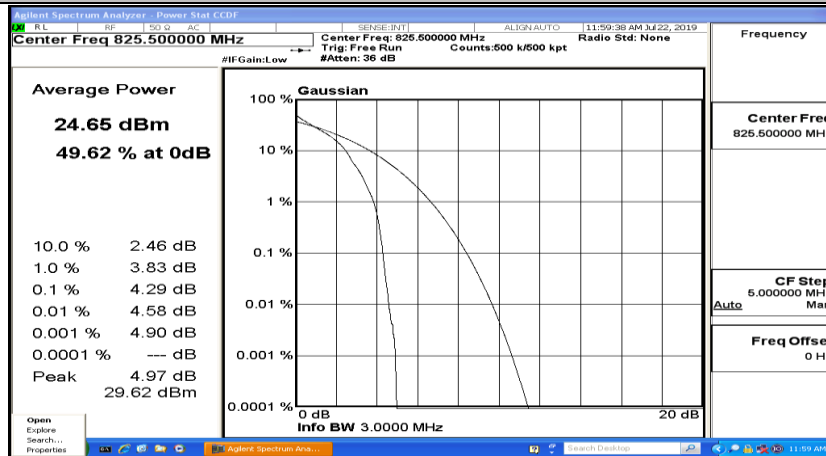
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



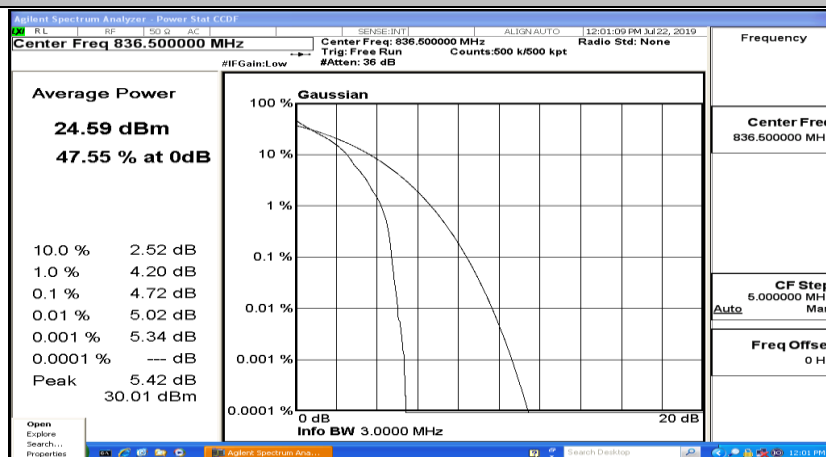
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



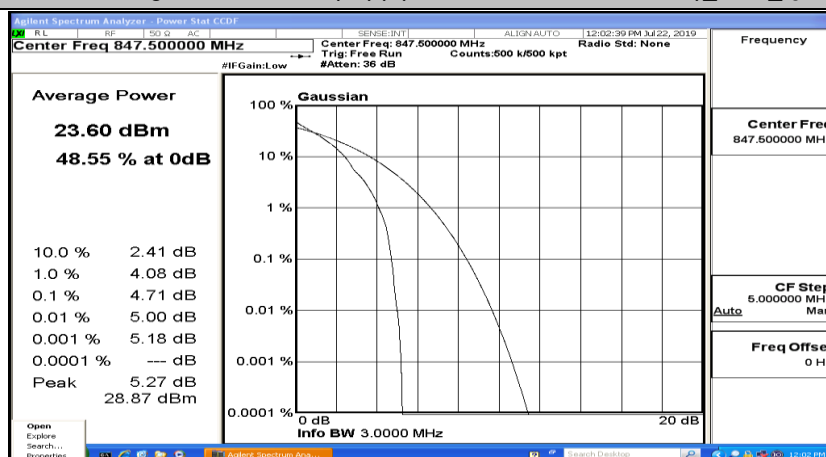
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



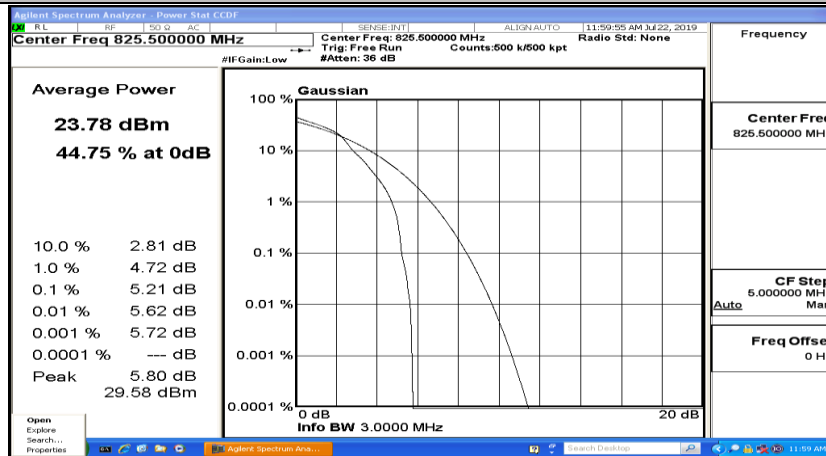
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



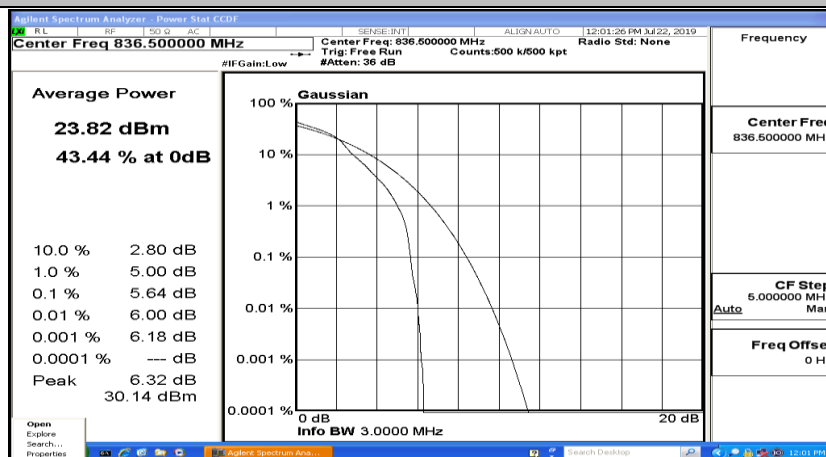
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



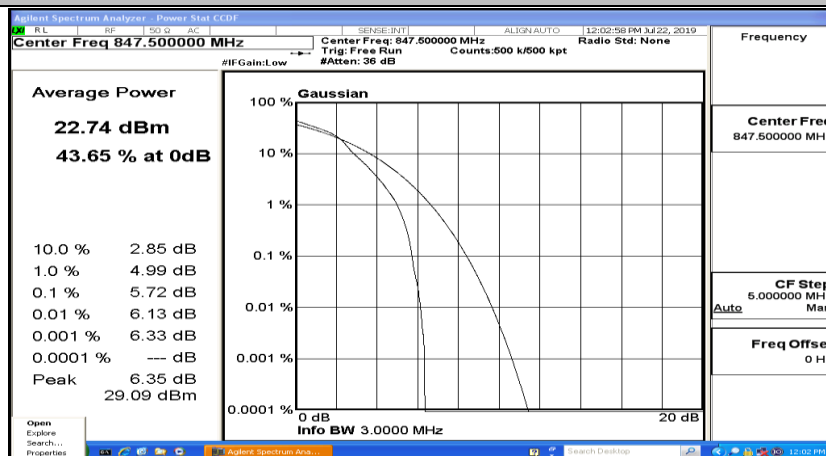
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



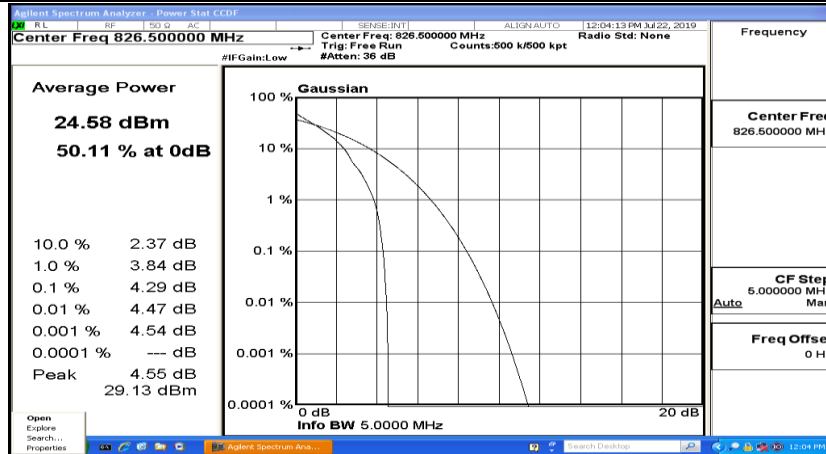
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



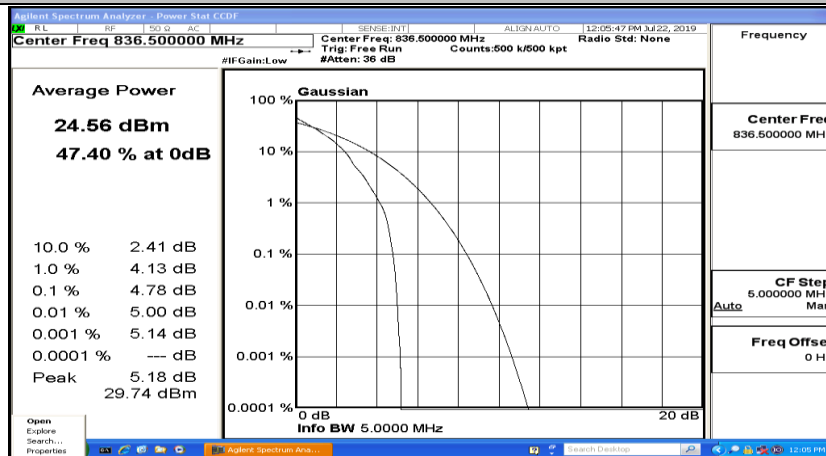
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



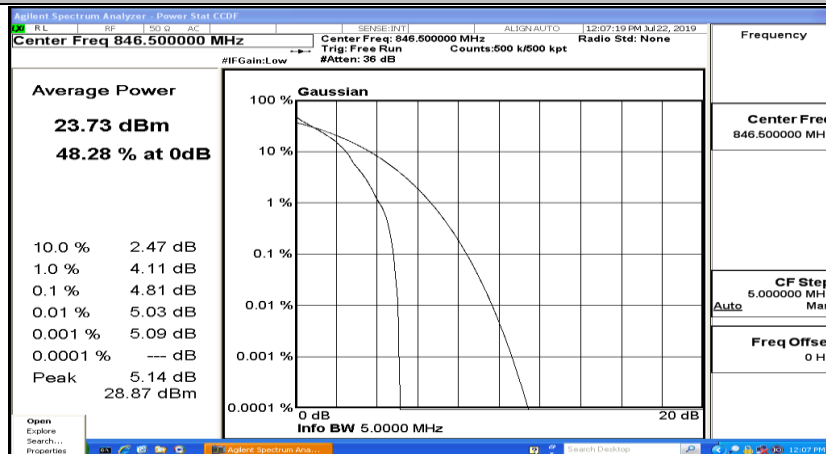
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



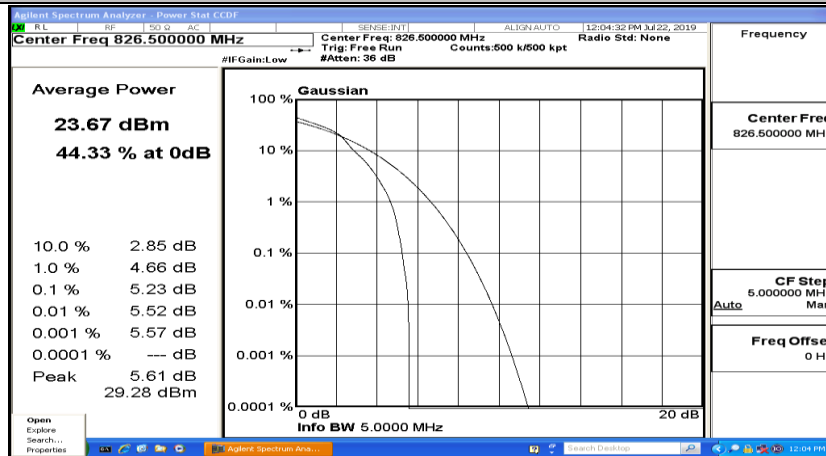
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



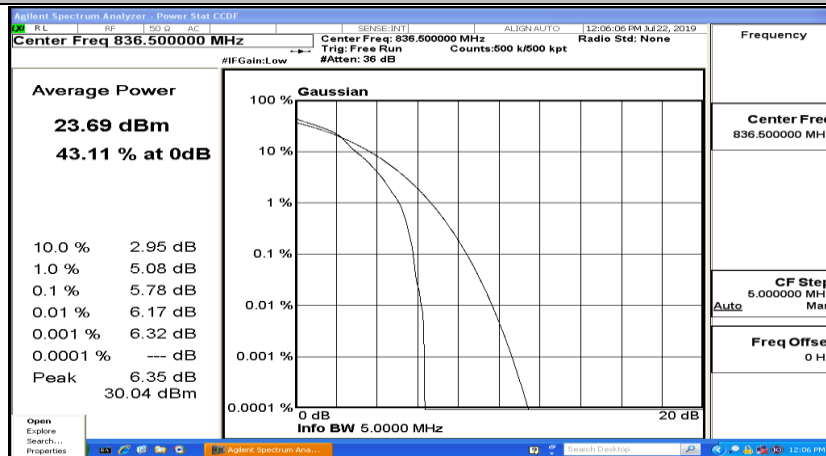
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



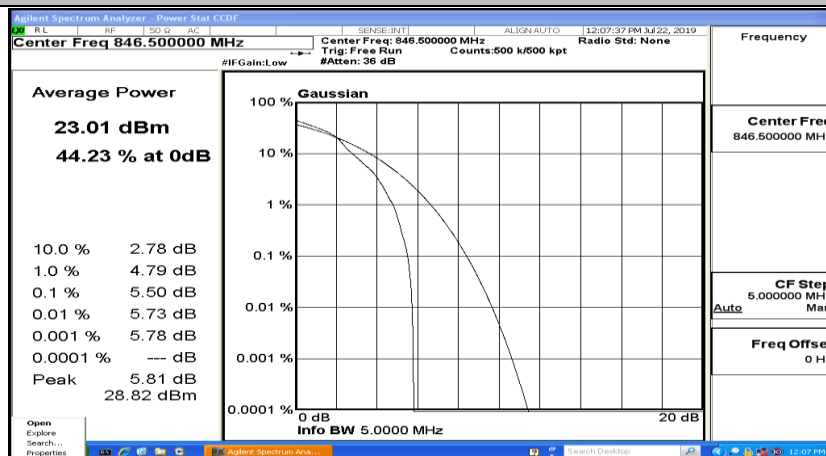
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



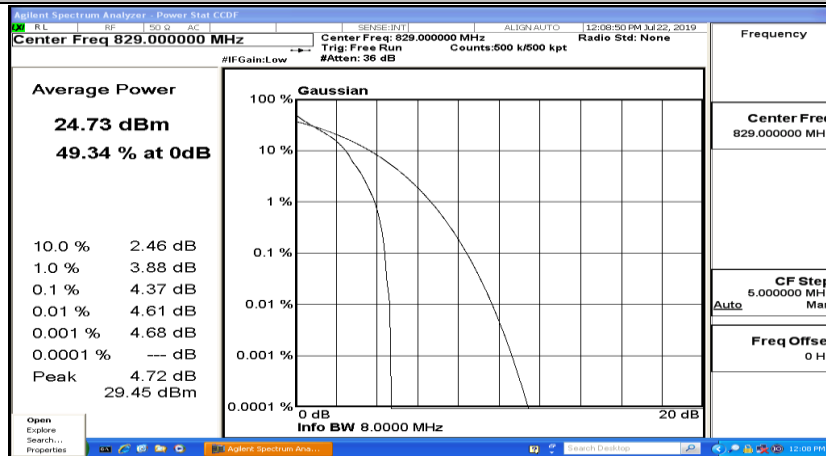
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



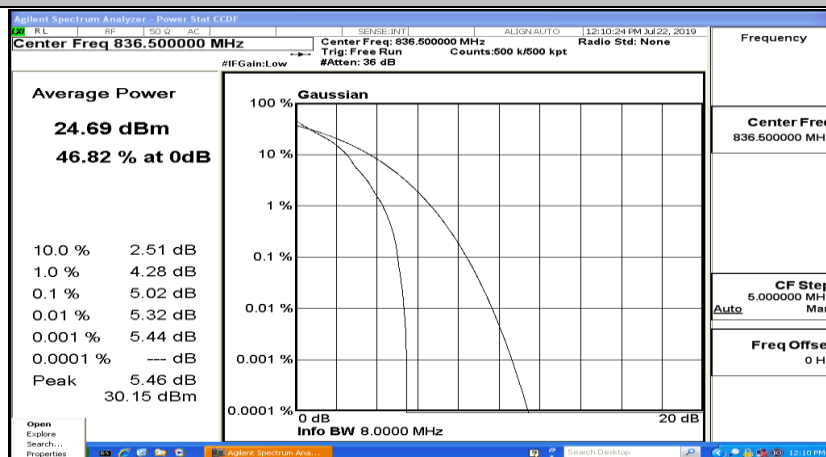
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



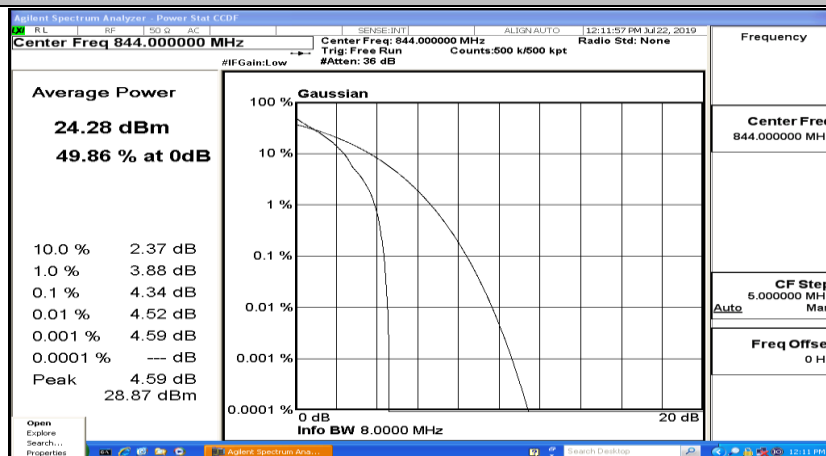
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



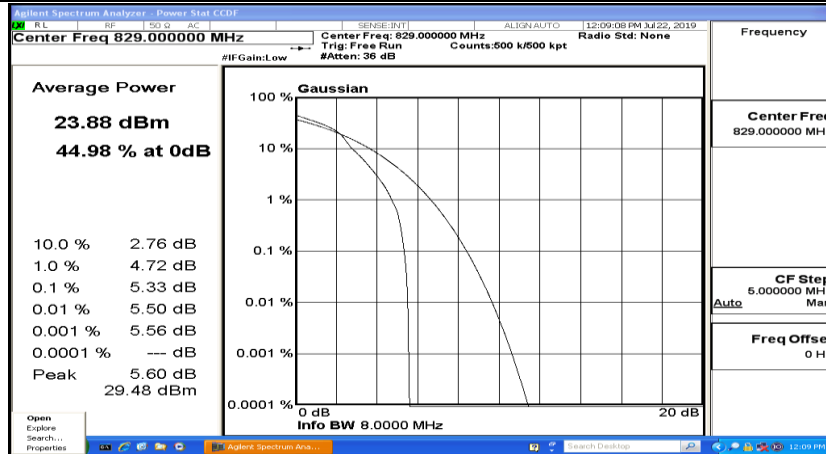
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



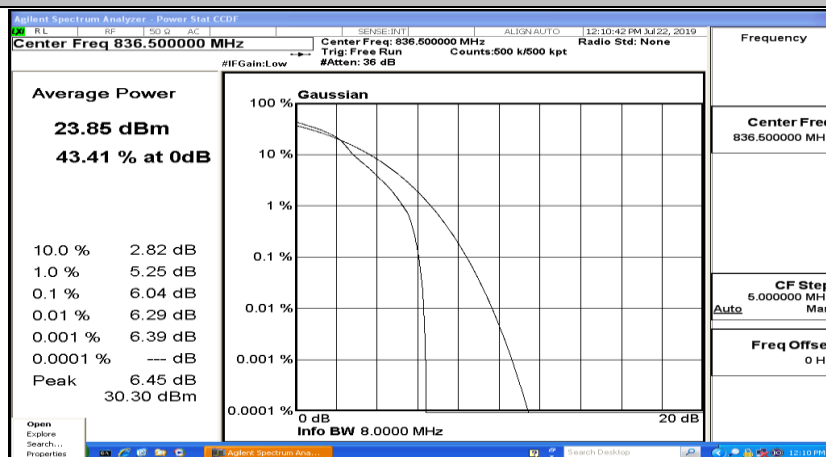
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



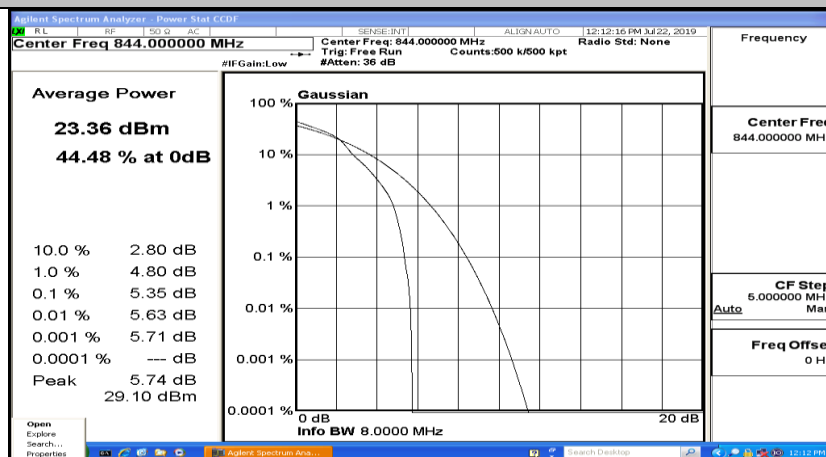
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

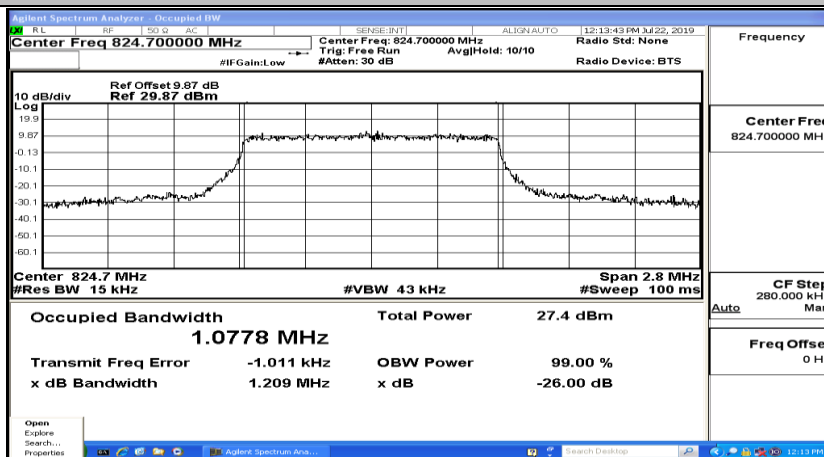
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0778	1.209	PASS
	MCH	1.0758	1.212	PASS
	HCH	1.0776	1.210	PASS
16QAM	LCH	1.0773	1.239	PASS
	MCH	1.0768	1.223	PASS
	HCH	1.0765	1.218	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6802	2.826	PASS
	MCH	2.6815	2.825	PASS
	HCH	2.6769	2.841	PASS
16QAM	LCH	2.6802	2.823	PASS
	MCH	2.6804	2.825	PASS
	HCH	2.6848	2.847	PASS

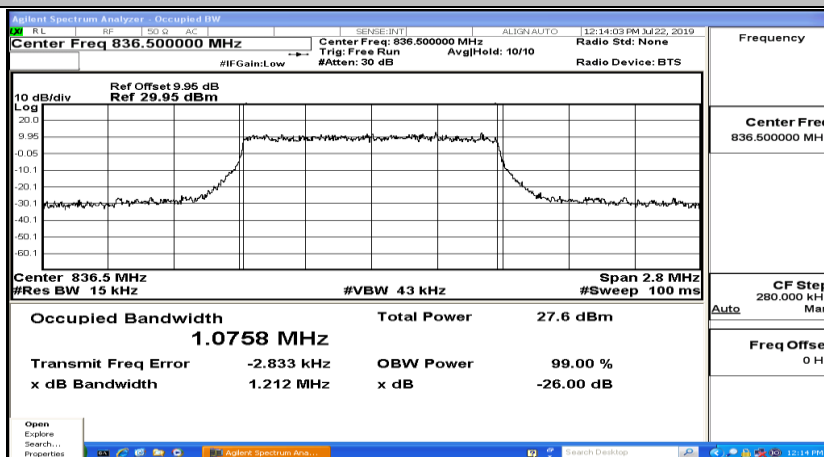
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4833	4.851	PASS
	MCH	4.4821	4.884	PASS
	HCH	4.4764	5.035	PASS
16QAM	LCH	4.4743	4.852	PASS
	MCH	4.4687	4.919	PASS
	HCH	4.4779	4.896	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9315	9.507	PASS
	MCH	8.9665	9.634	PASS
	HCH	8.9114	9.435	PASS
16QAM	LCH	8.9111	9.455	PASS
	MCH	8.9598	9.563	PASS
	HCH	8.9322	9.499	PASS

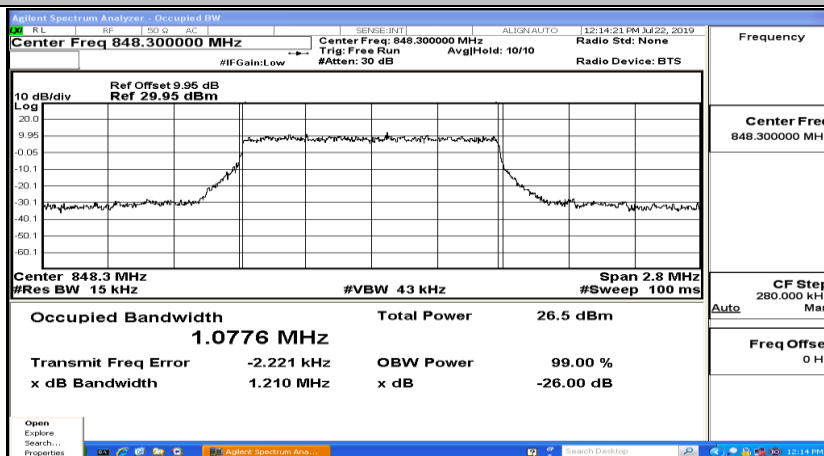
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



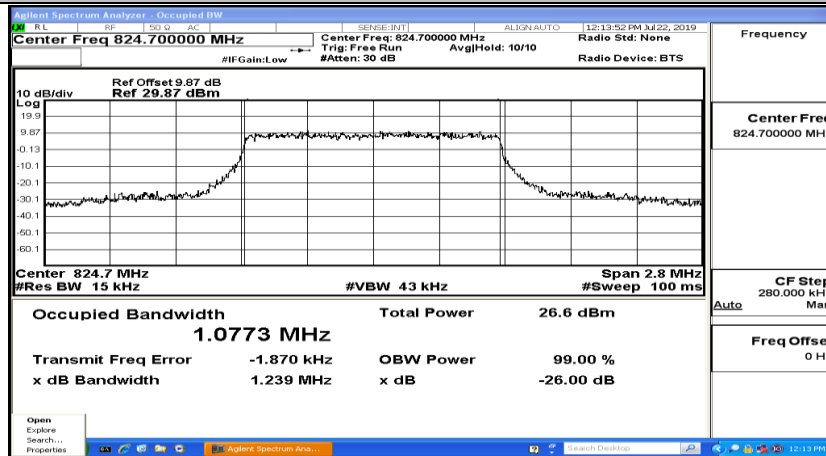
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



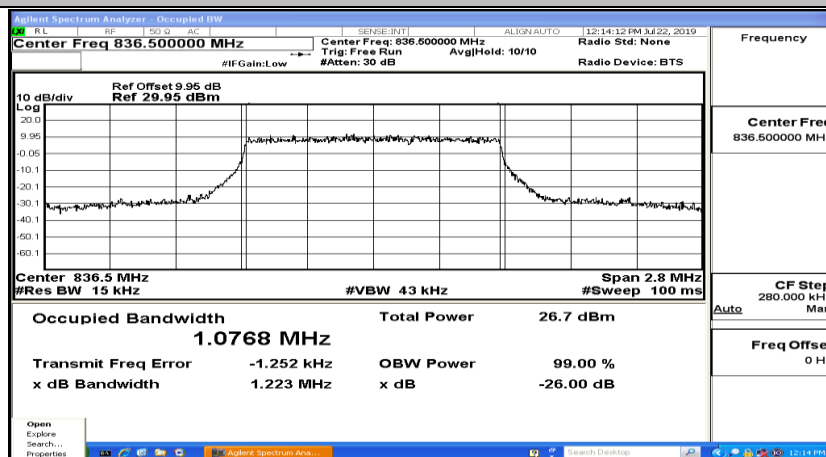
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



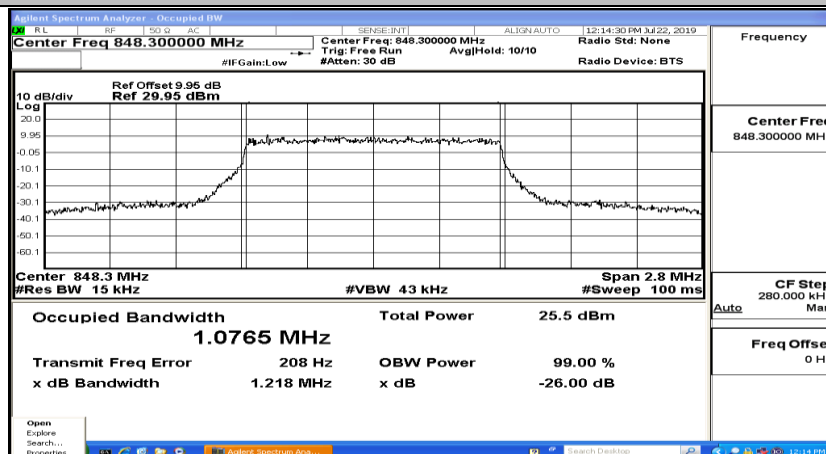
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



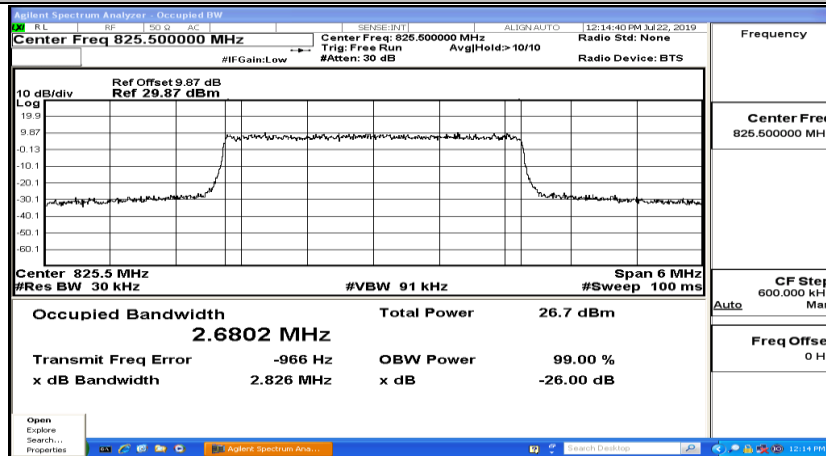
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



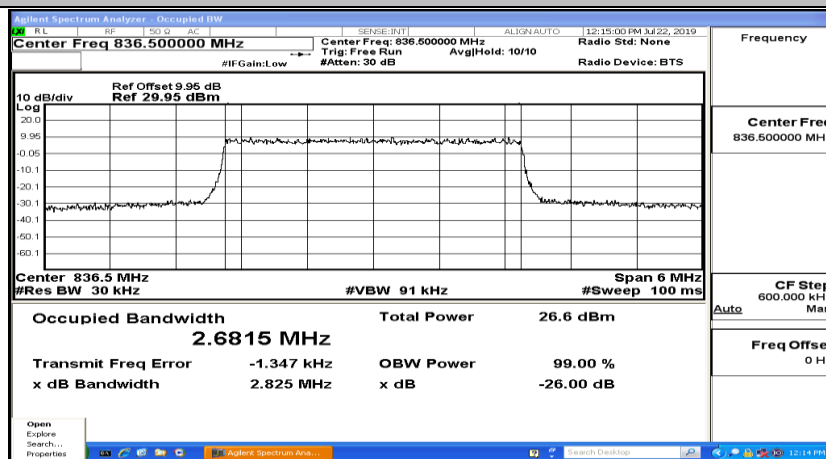
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



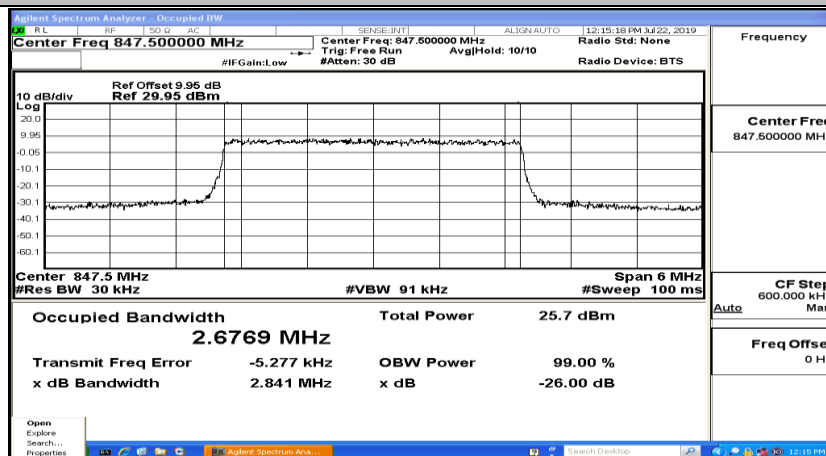
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



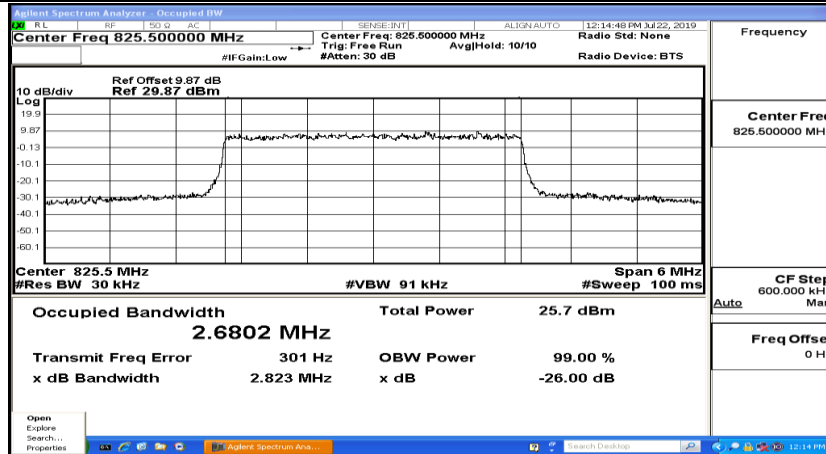
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



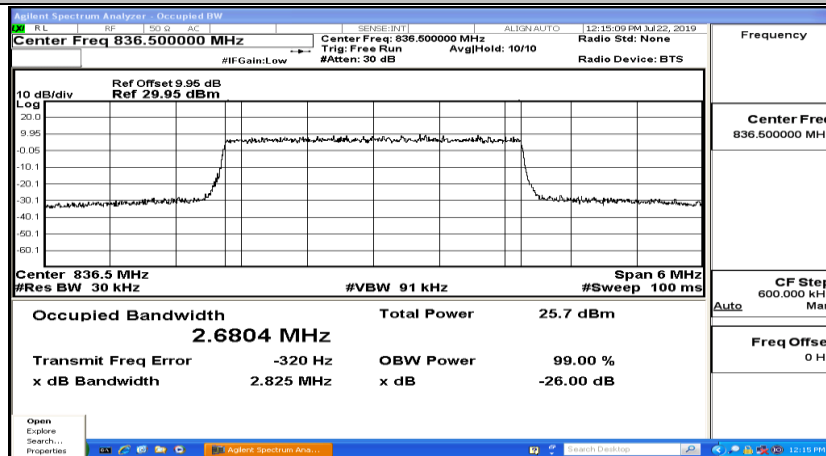
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



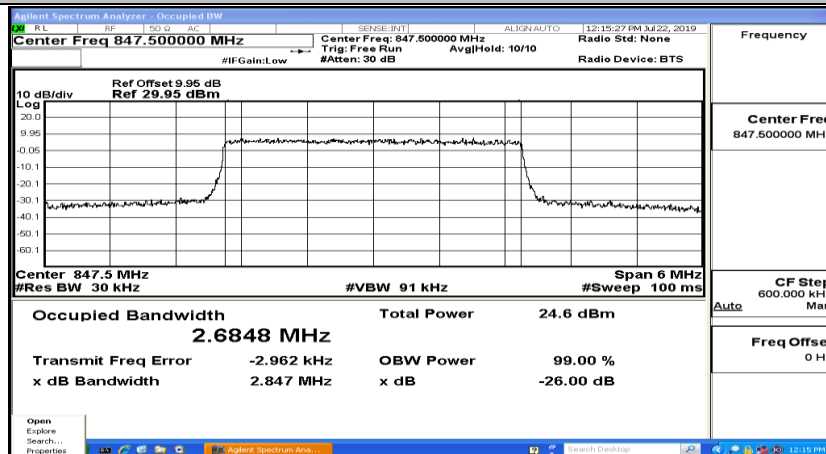
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



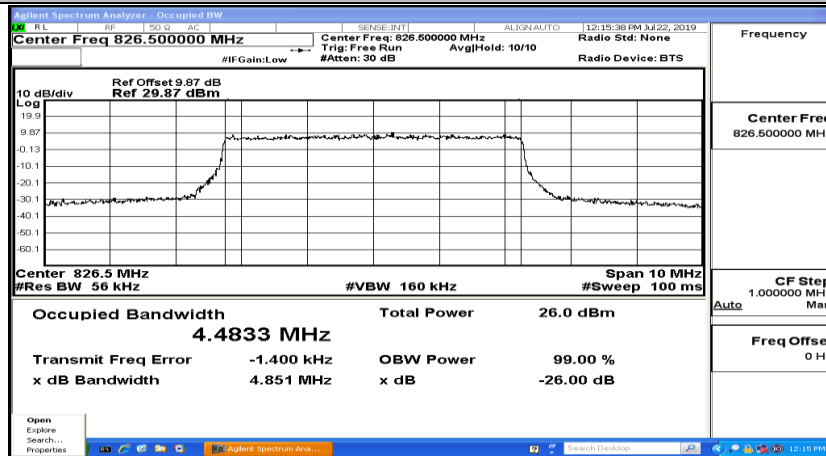
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



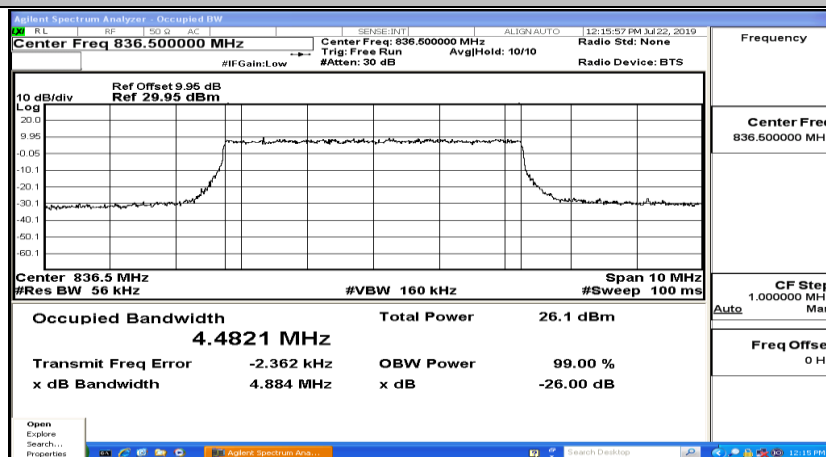
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



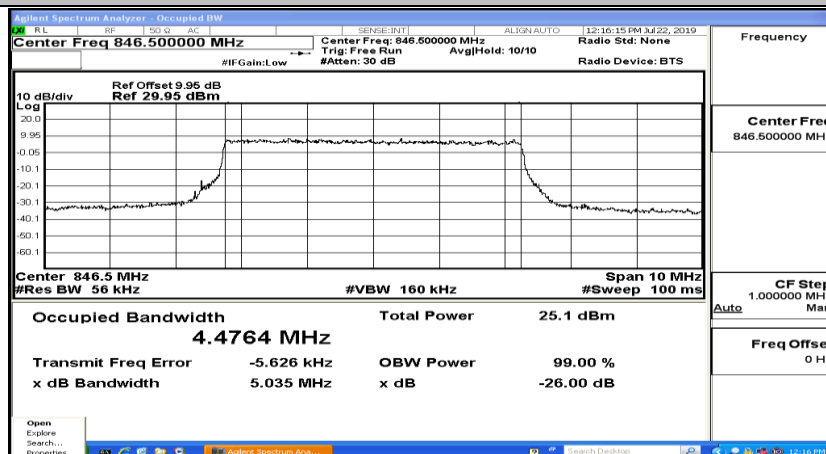
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



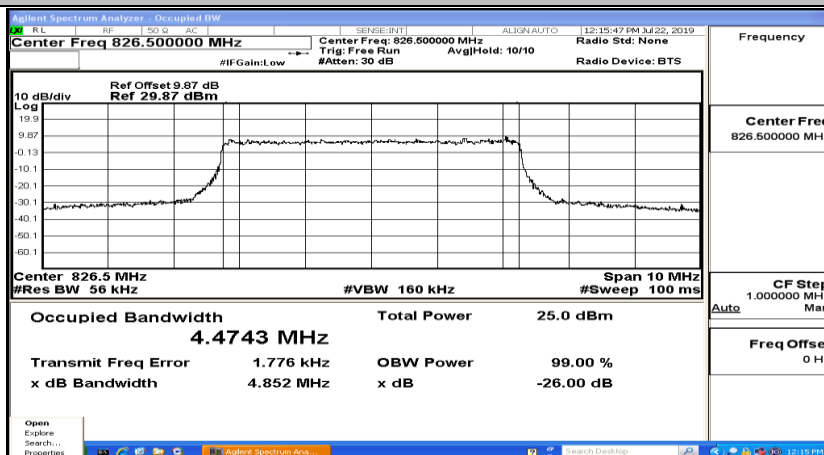
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



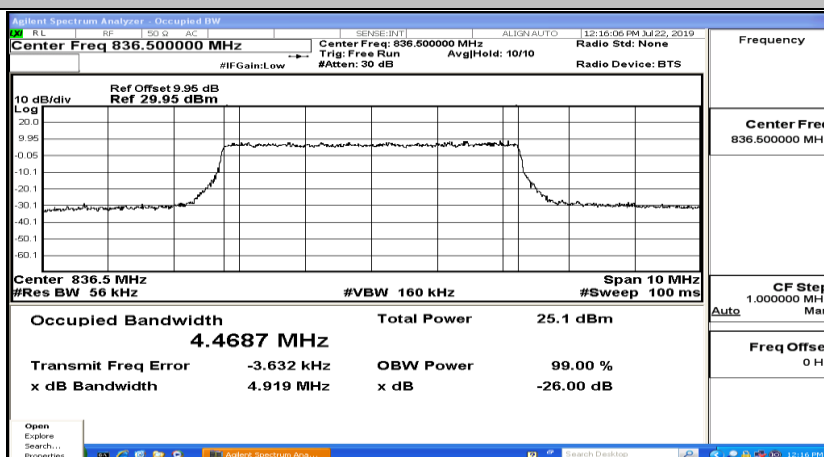
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



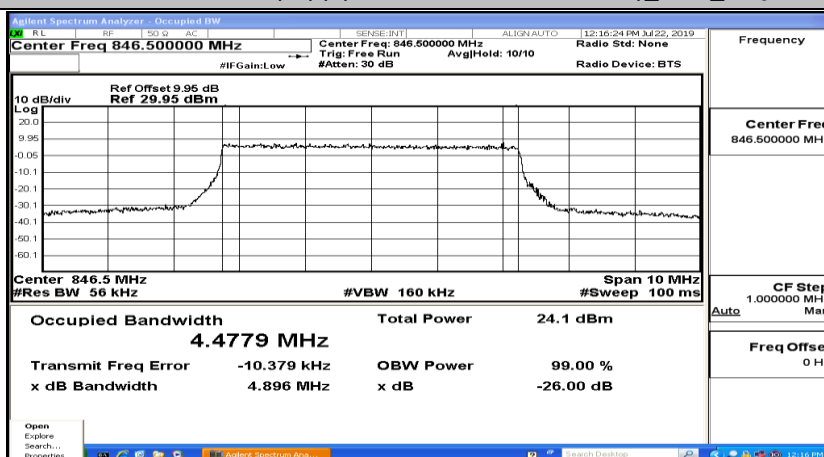
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



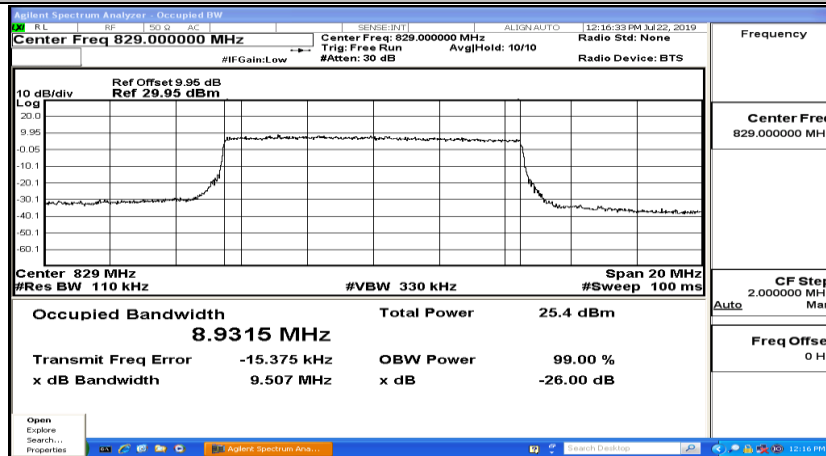
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



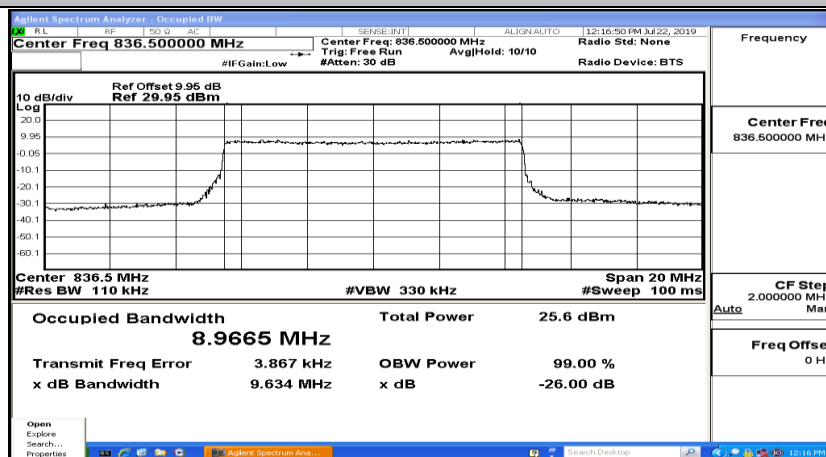
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



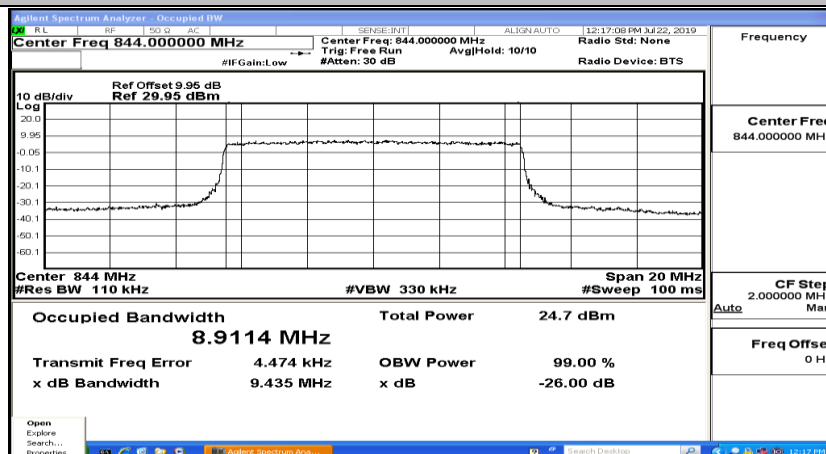
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



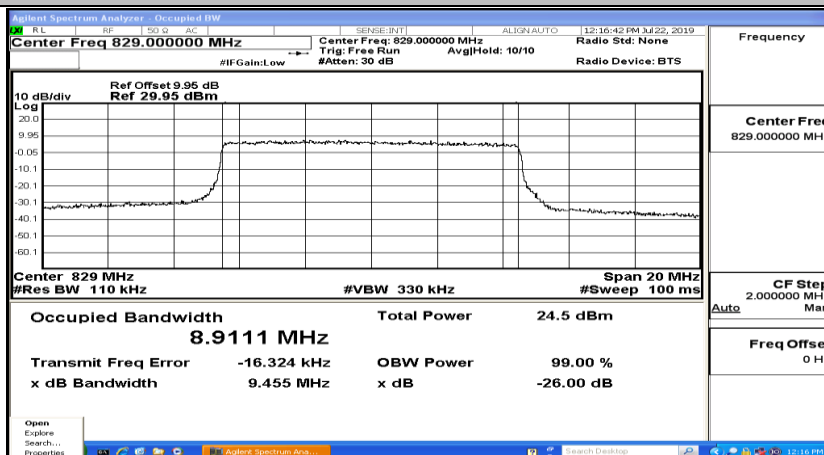
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



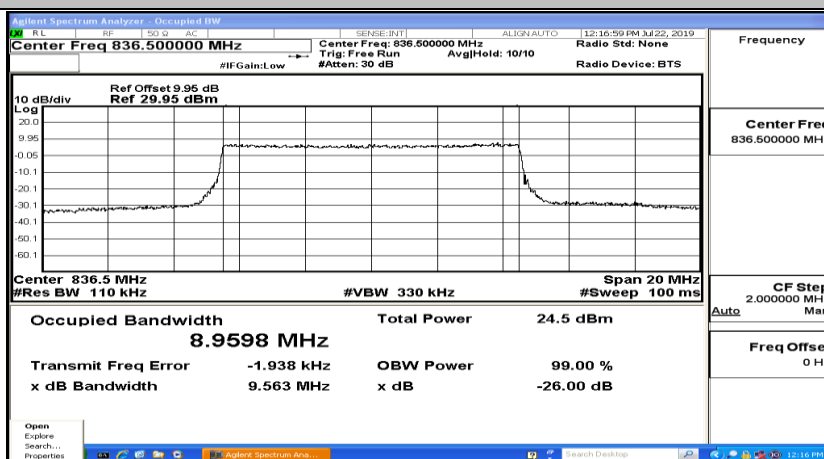
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



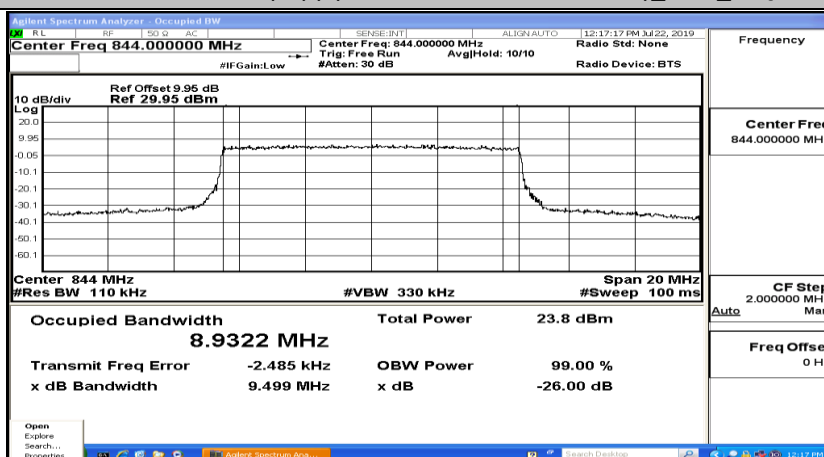
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

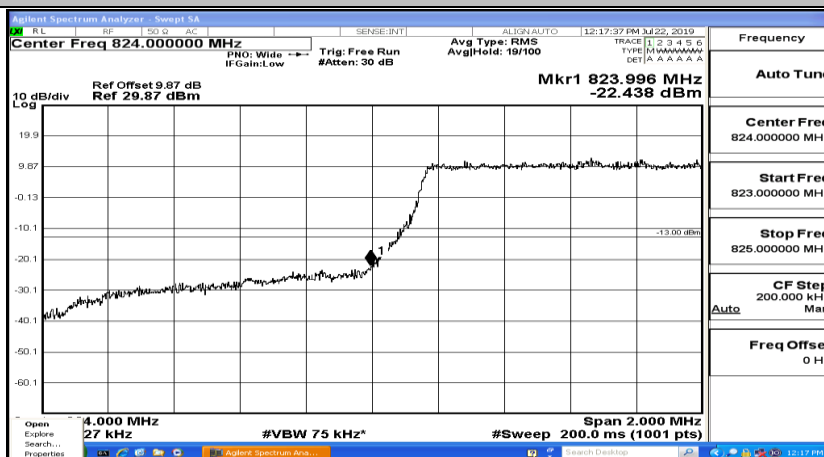


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

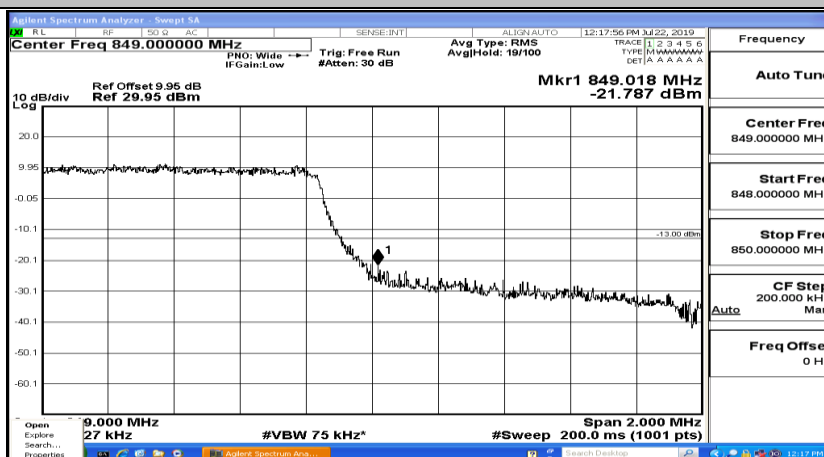


H.4 Band Edge

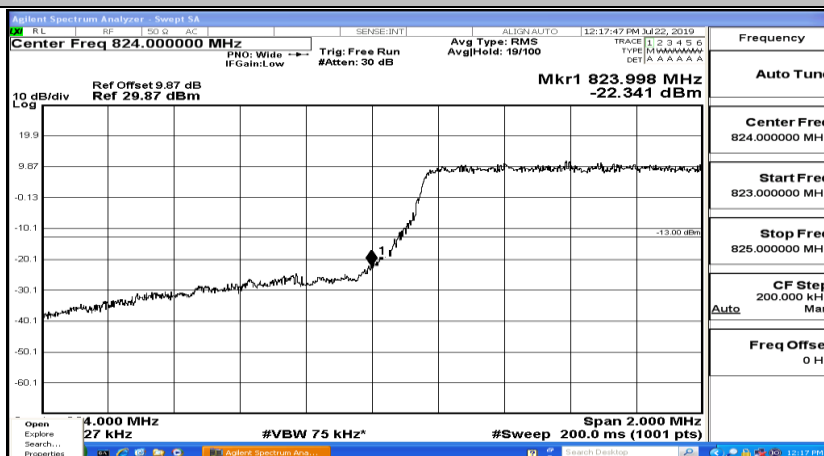
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



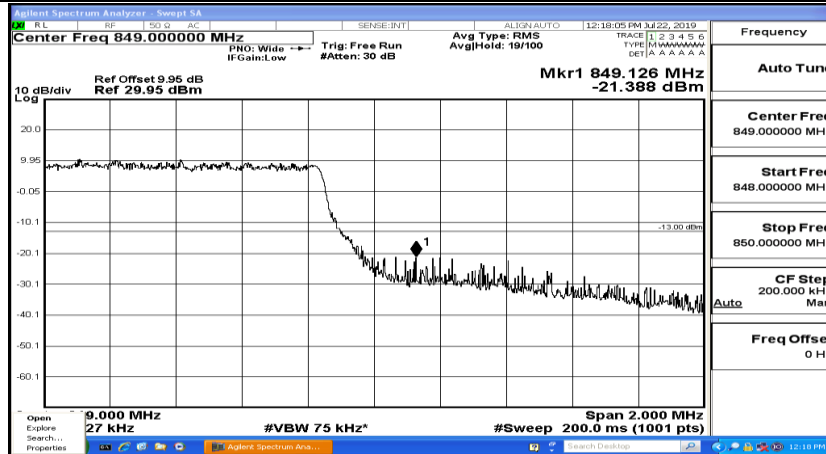
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



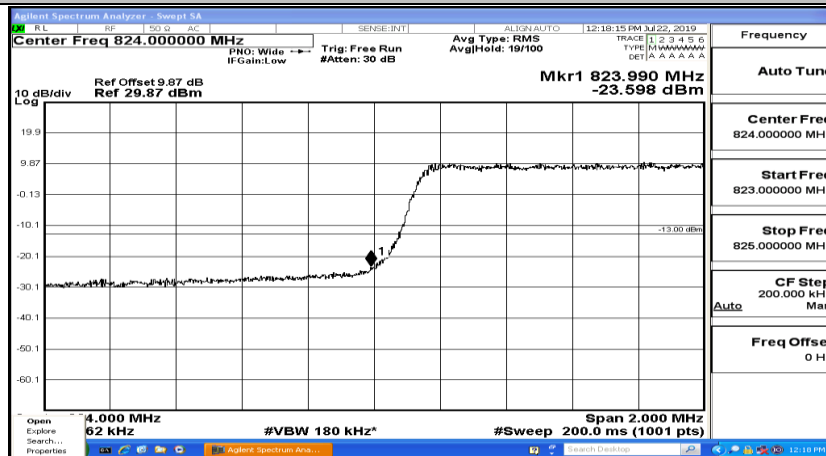
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



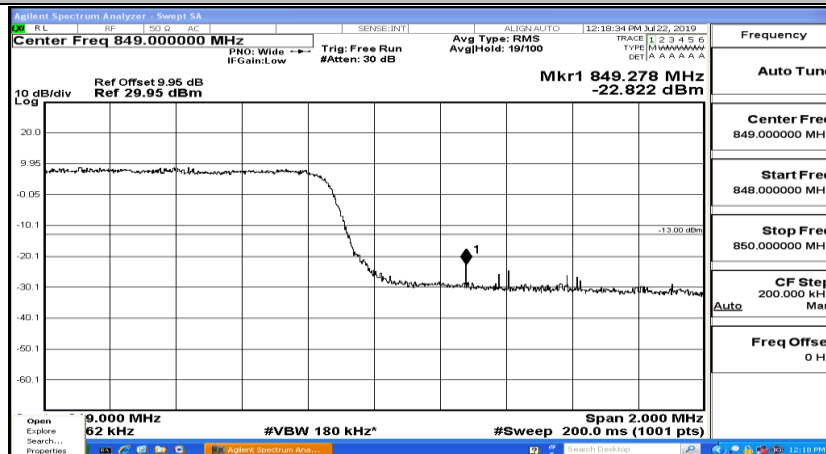
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



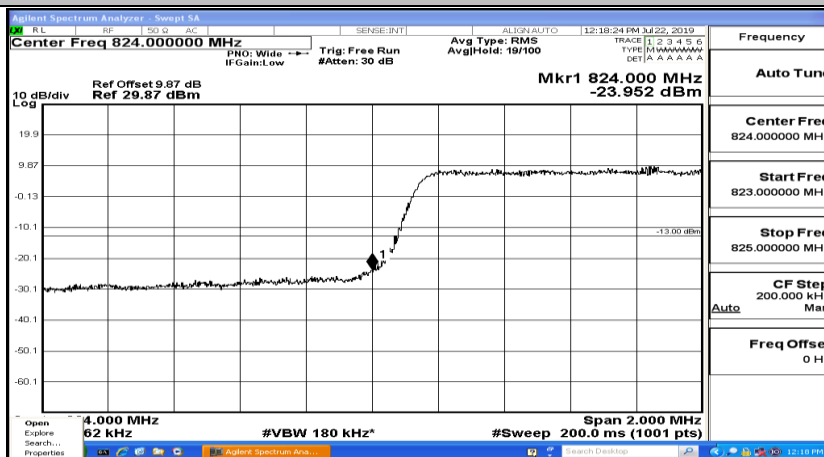
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



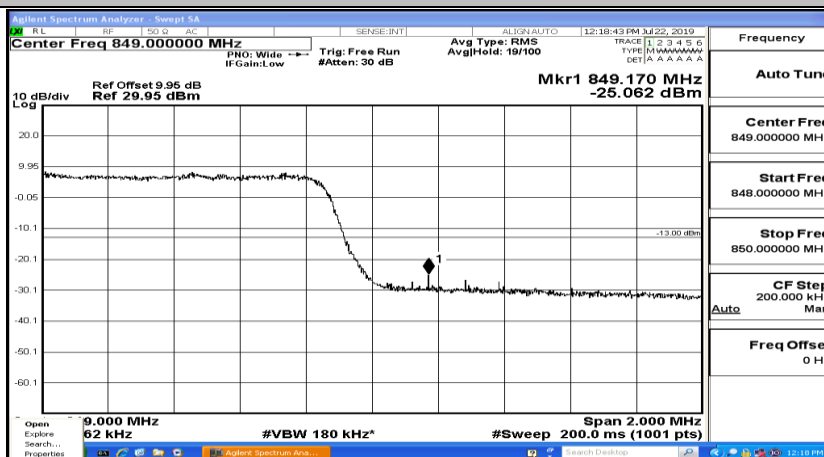
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



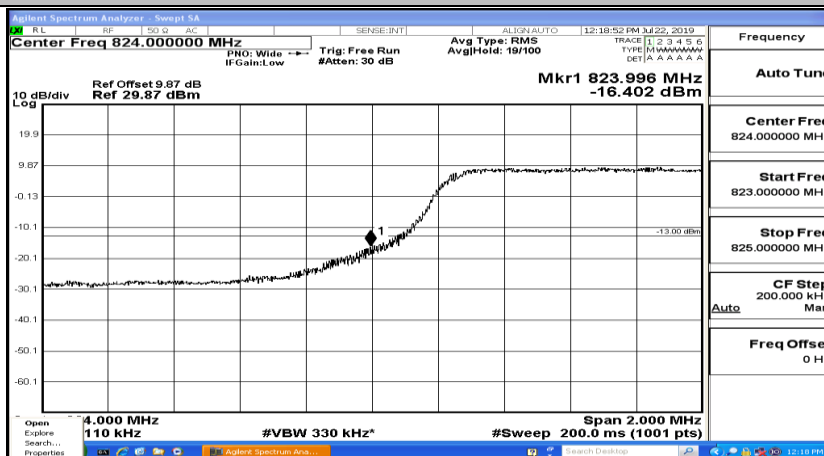
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



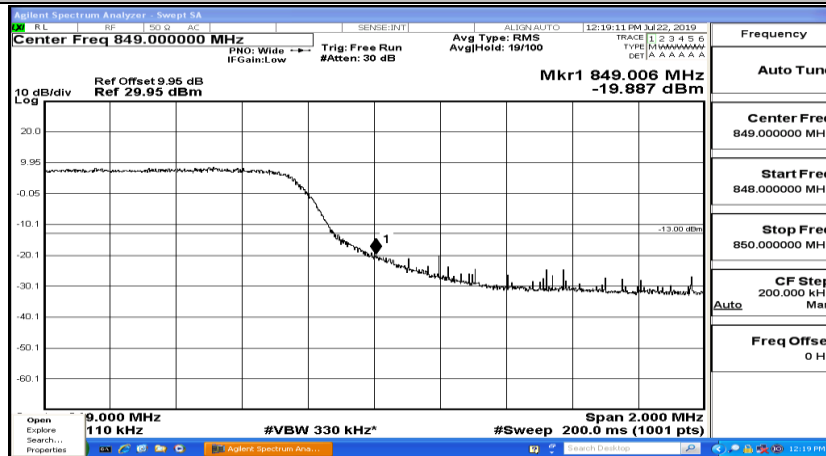
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



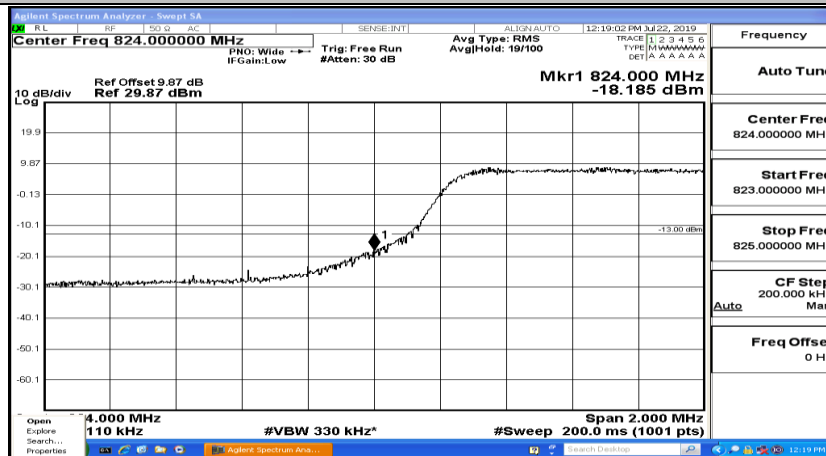
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



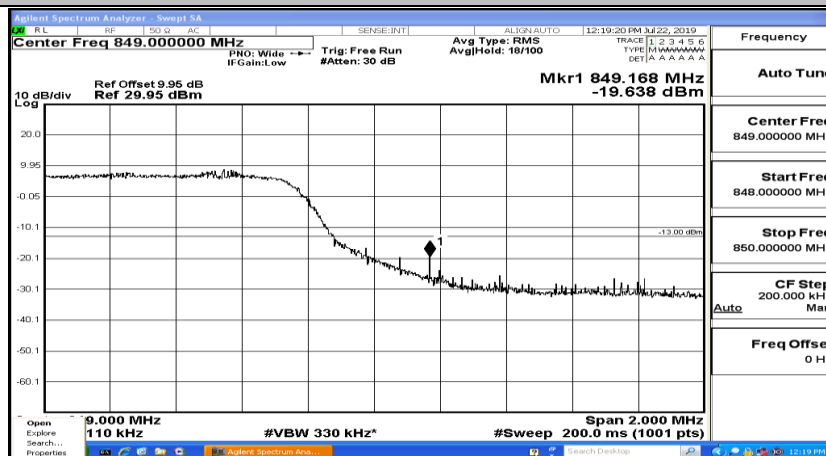
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



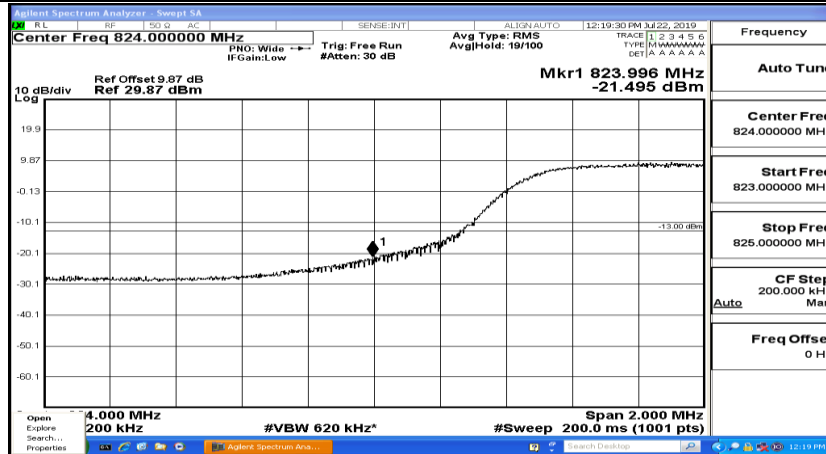
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



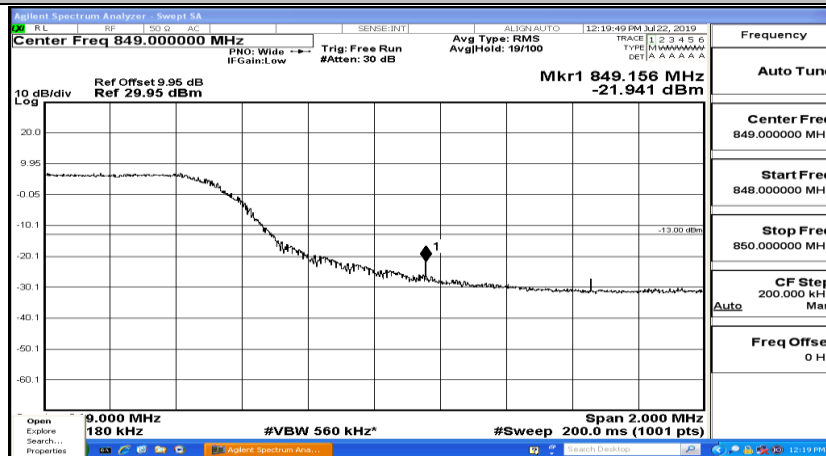
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



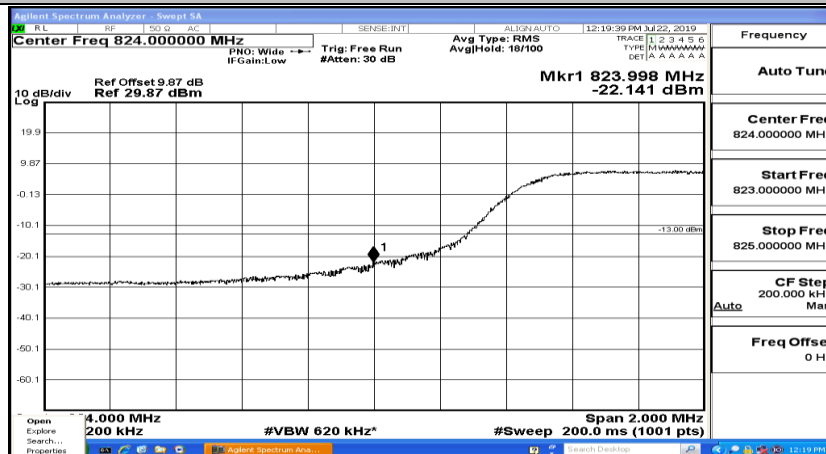
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



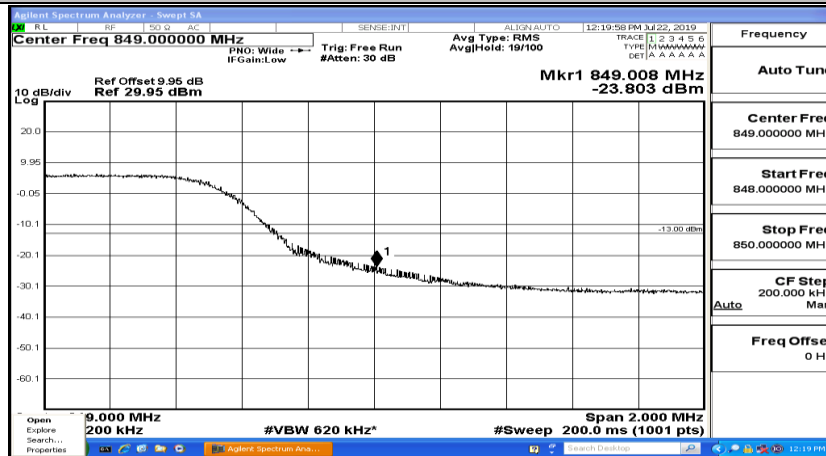
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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

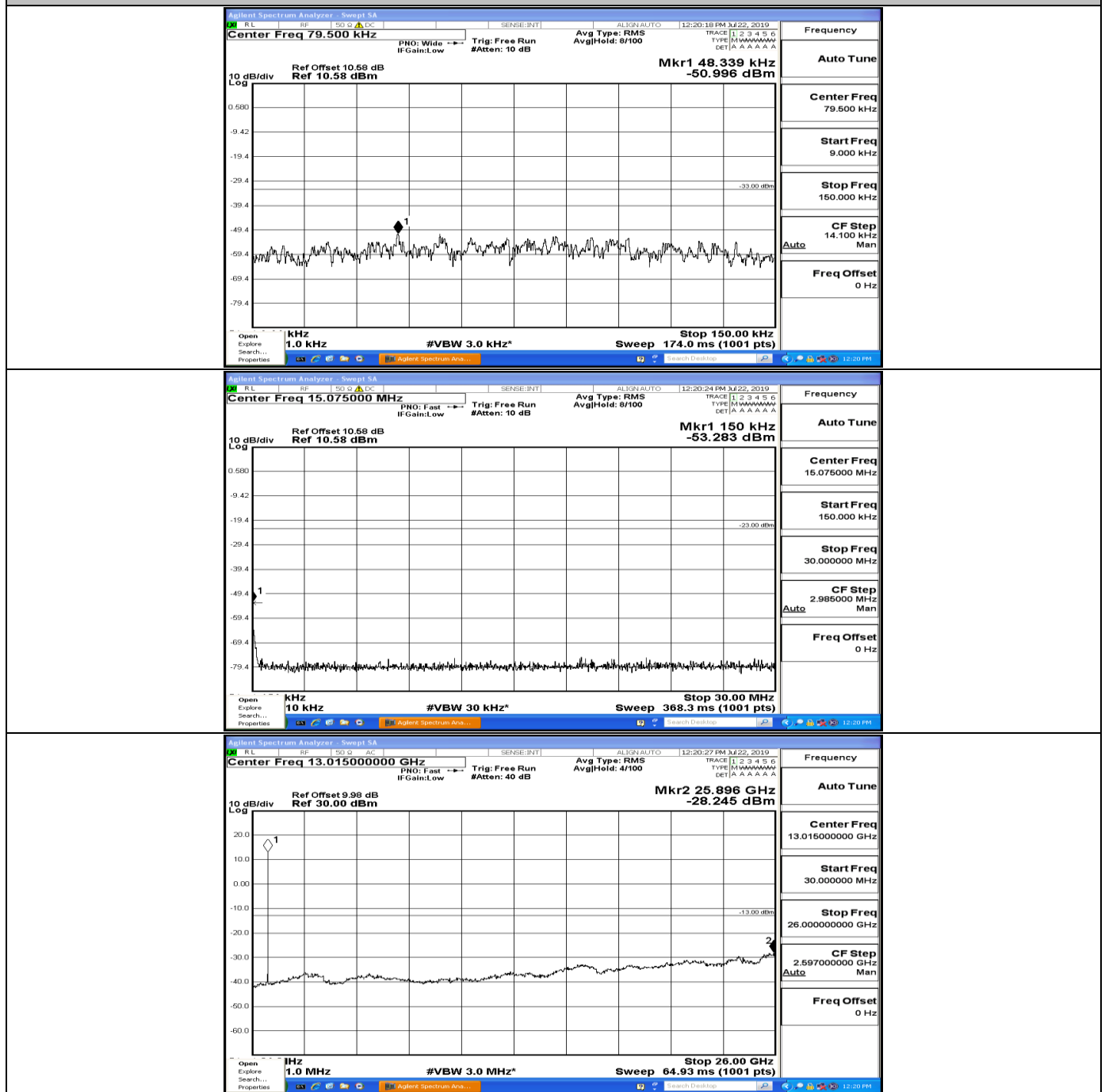


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



H.5 Conducted Spurious Emission

CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK

