

Appendix H: Test Data for E-UTRA Band 5

Product Name: 3-D VR Smartphone

Trade Mark: Q PHONE

Test Model: Qphone2019_A

Environmental Conditions

Temperature:	23.1 °C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden Zhuo

H.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	22.23	21.40	PASS
		1	3	22.23	21.42	PASS
		1	5	22.23	21.39	PASS
		3	0	22.34	21.61	PASS
		3	2	22.35	21.56	PASS
		3	3	22.33	21.52	PASS
		6	0	21.39	20.62	PASS
	MCH	1	0	21.37	20.69	PASS
		1	3	21.46	20.71	PASS
		1	5	21.40	20.69	PASS
		3	0	21.60	20.77	PASS
		3	2	21.61	20.81	PASS
		3	3	21.57	20.76	PASS
		6	0	21.65	20.80	PASS
	HCH	1	0	21.81	21.33	PASS
		1	3	21.88	21.45	PASS
		1	5	21.92	21.46	PASS
		3	0	21.92	20.99	PASS
		3	2	22.01	21.07	PASS
		3	3	21.98	21.10	PASS
		6	0	21.07	20.14	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	22.28	21.45	PASS
		1	7	22.33	21.49	PASS
		1	14	22.14	21.30	PASS
		8	0	21.45	20.44	PASS
		8	4	21.43	20.42	PASS
		8	7	21.39	20.37	PASS
		15	0	21.39	20.42	PASS
	MCH	1	0	21.54	20.72	PASS
		1	7	21.64	20.77	PASS
		1	14	21.49	20.61	PASS
		8	0	21.74	20.72	PASS
		8	4	21.73	20.71	PASS
		8	7	21.70	20.69	PASS
		15	0	21.70	20.75	PASS
	HCH	1	0	21.77	20.96	PASS
		1	7	21.97	21.12	PASS
		1	14	21.93	21.11	PASS
		8	0	21.01	20.15	PASS
		8	4	21.05	20.21	PASS
		8	7	21.09	20.21	PASS
		15	0	21.04	20.02	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	22.26	21.50	PASS
		1	12	22.24	21.47	PASS
		1	24	21.97	21.24	PASS
		12	0	21.35	20.23	PASS
		12	6	21.32	20.19	PASS
		12	13	21.19	20.04	PASS
		25	0	21.30	20.29	PASS
	MCH	1	0	21.56	20.81	PASS
		1	12	21.56	20.79	PASS
		1	24	21.43	20.65	PASS
		12	0	21.66	20.54	PASS
		12	6	21.65	20.52	PASS
		12	13	21.58	20.46	PASS
		25	0	21.64	20.64	PASS
	HCH	1	0	21.64	21.04	PASS
		1	12	21.92	21.25	PASS
		1	24	21.95	21.25	PASS
		12	0	21.87	20.88	PASS
		12	6	21.93	20.95	PASS
		12	13	21.94	20.98	PASS
		25	0	21.92	20.94	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.45	21.62	PASS
		1	24	22.13	21.35	PASS
		1	49	21.84	21.03	PASS
		25	0	21.41	20.41	PASS
		25	12	21.18	20.19	PASS
		25	25	21.02	20.02	PASS
		50	0	21.21	20.22	PASS
	MCH	1	0	21.89	21.12	PASS
		1	24	21.63	20.78	PASS
		1	49	21.65	20.82	PASS
		25	0	21.73	20.73	PASS
		25	12	21.67	20.69	PASS
		25	25	21.52	20.52	PASS
		50	0	21.63	20.62	PASS
	HCH	1	0	21.62	20.84	PASS
		1	24	21.72	20.98	PASS
		1	49	22.06	21.25	PASS
		25	0	21.80	20.83	PASS
		25	12	21.81	20.83	PASS
		25	25	21.90	20.91	PASS
		50	0	21.84	20.78	PASS

H.2 Peak-to-Average Ratio

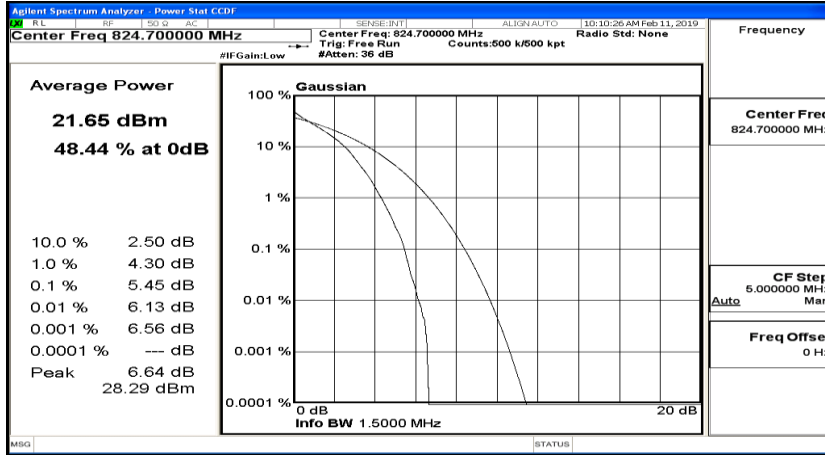
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.45	<13	PASS
	MCH	5.26	<13	PASS
	HCH	4.9	<13	PASS
16QAM	LCH	6.24	<13	PASS
	MCH	6.19	<13	PASS
	HCH	5.73	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.4	<13	PASS
	MCH	5.29	<13	PASS
	HCH	5.13	<13	PASS
16QAM	LCH	6.35	<13	PASS
	MCH	6.22	<13	PASS
	HCH	5.8	<13	PASS

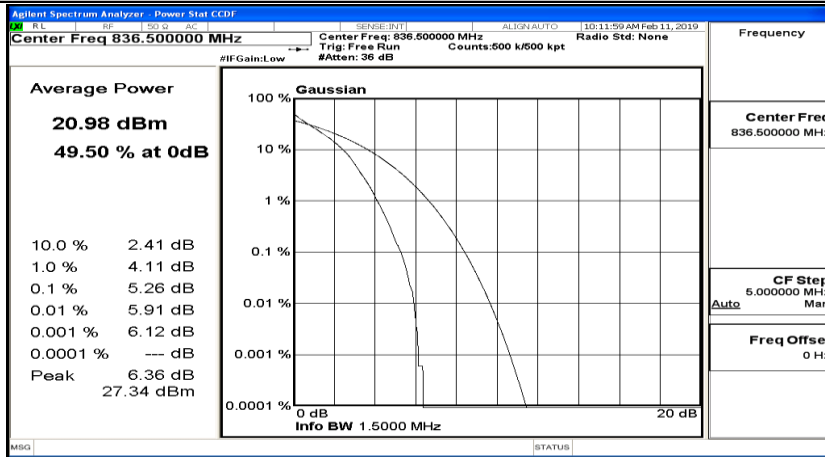
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.54	<13	PASS
	MCH	5.41	<13	PASS
	HCH	5.27	<13	PASS
16QAM	LCH	6.26	<13	PASS
	MCH	6.11	<13	PASS
	HCH	6.08	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.73	<13	PASS
	MCH	5.52	<13	PASS
	HCH	5.46	<13	PASS
16QAM	LCH	6.41	<13	PASS
	MCH	6.25	<13	PASS
	HCH	6.19	<13	PASS

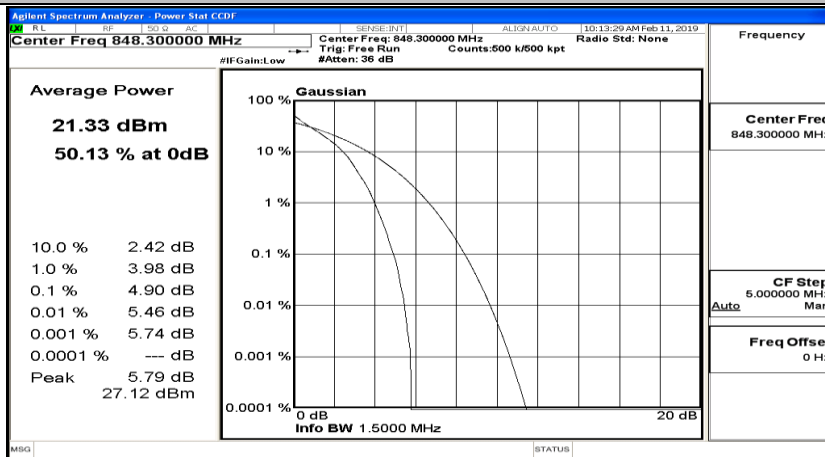
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



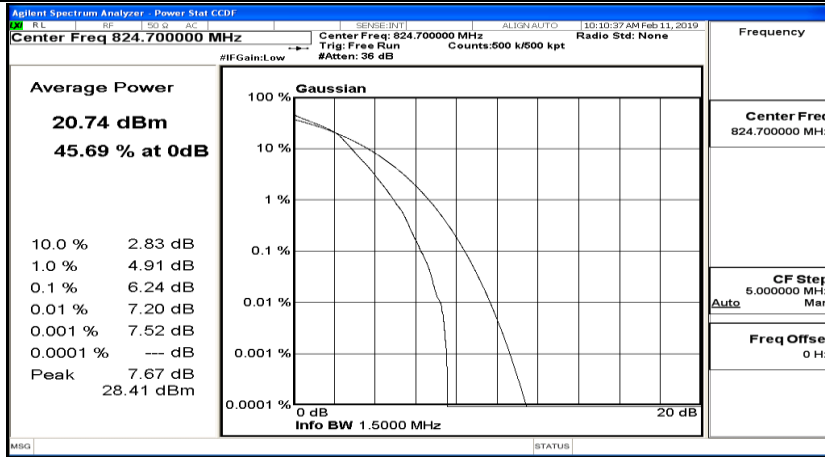
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



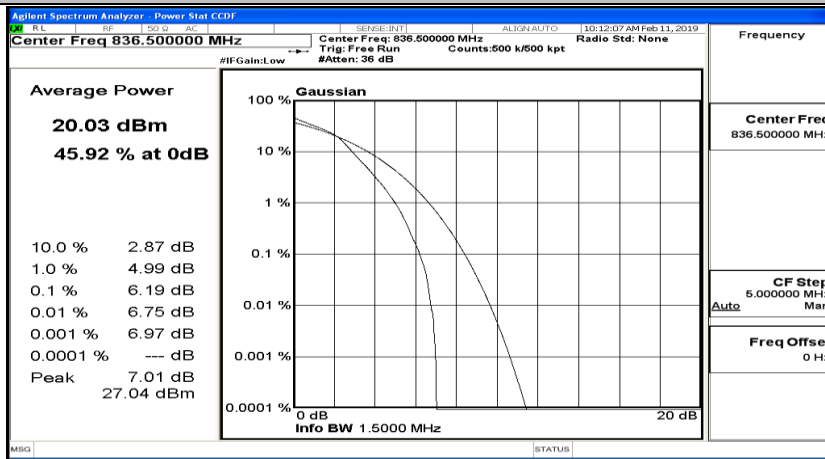
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



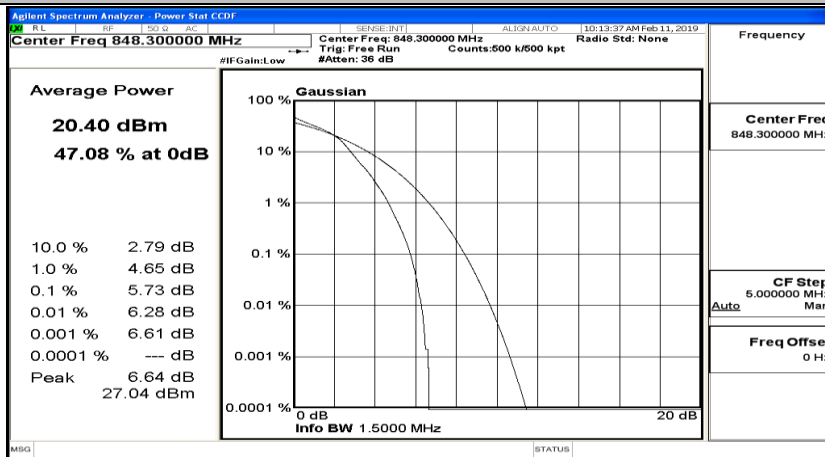
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



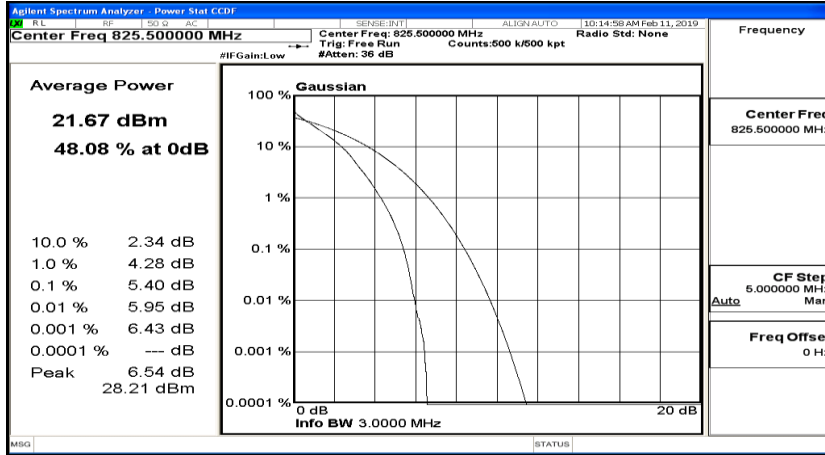
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



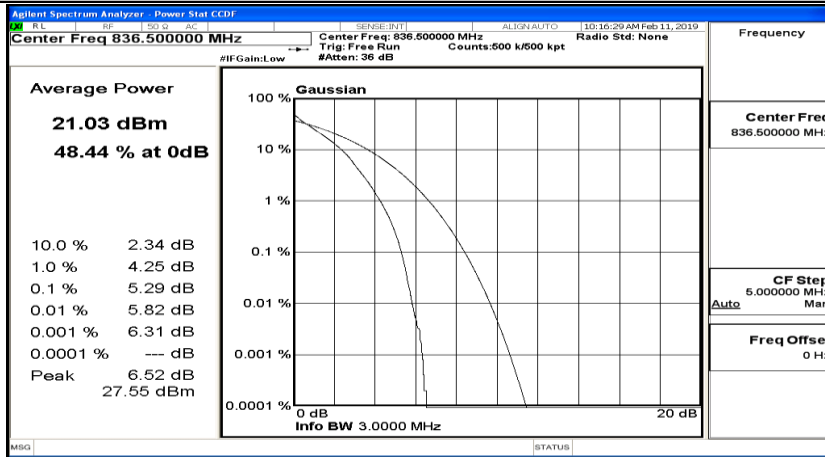
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



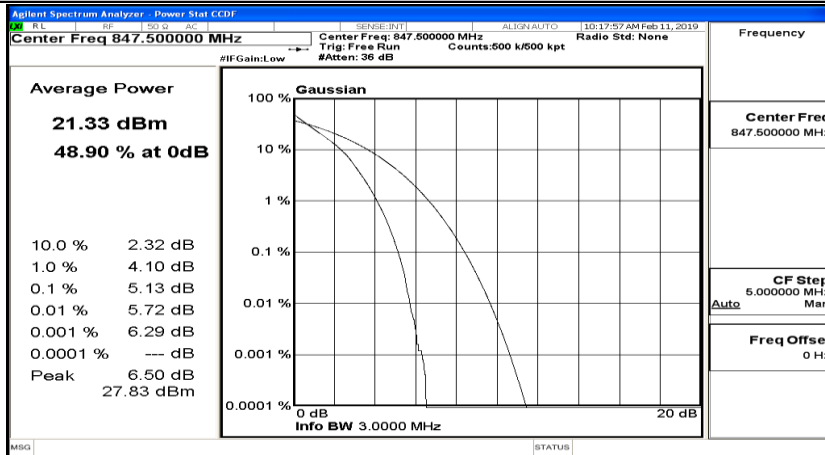
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



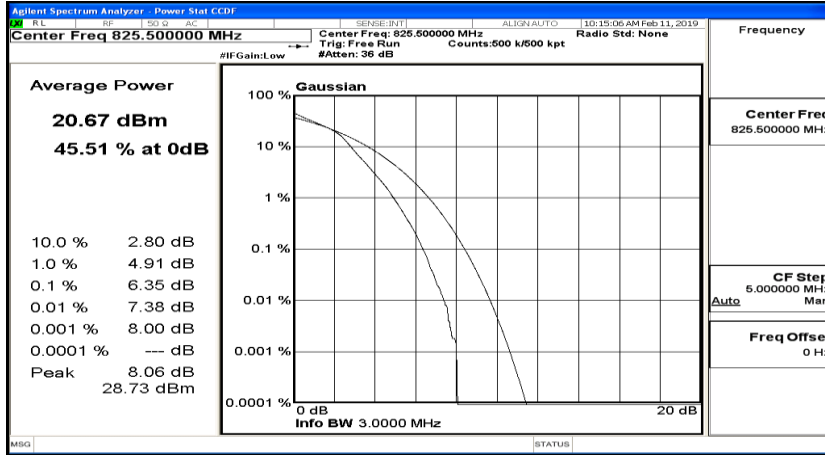
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



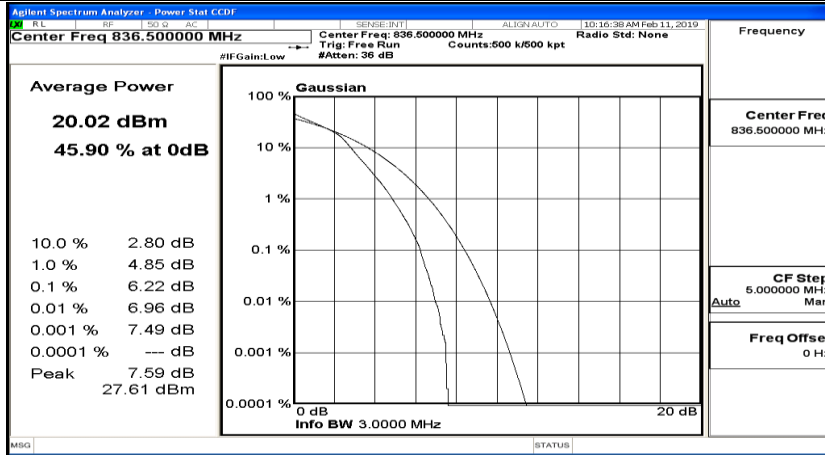
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



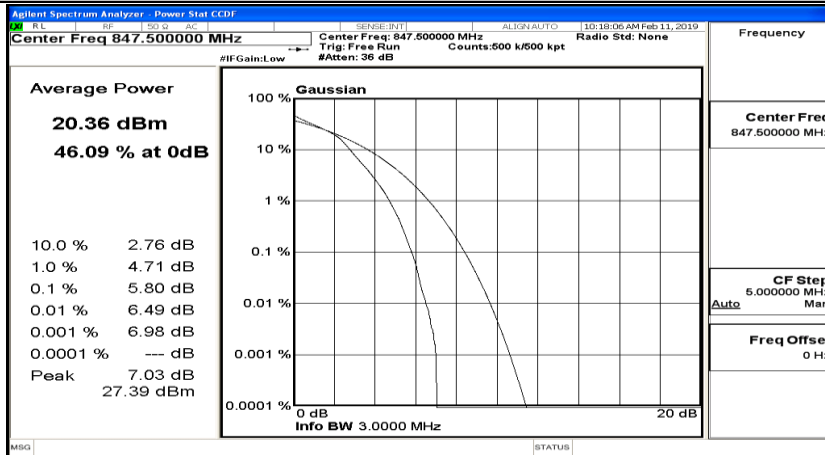
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



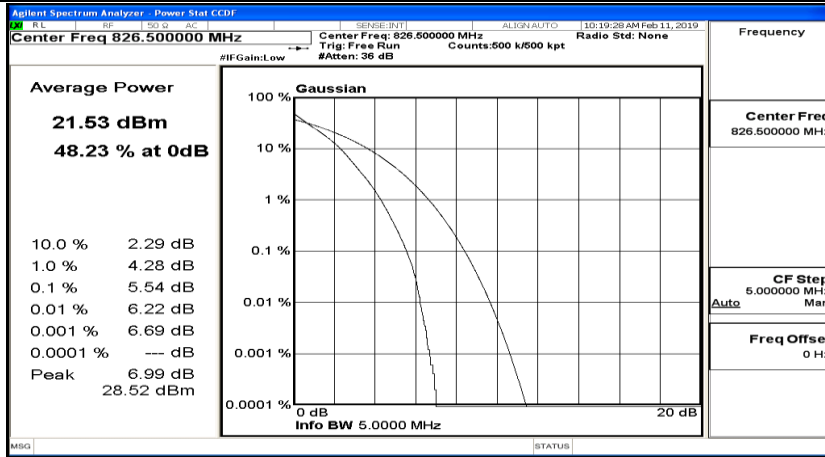
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



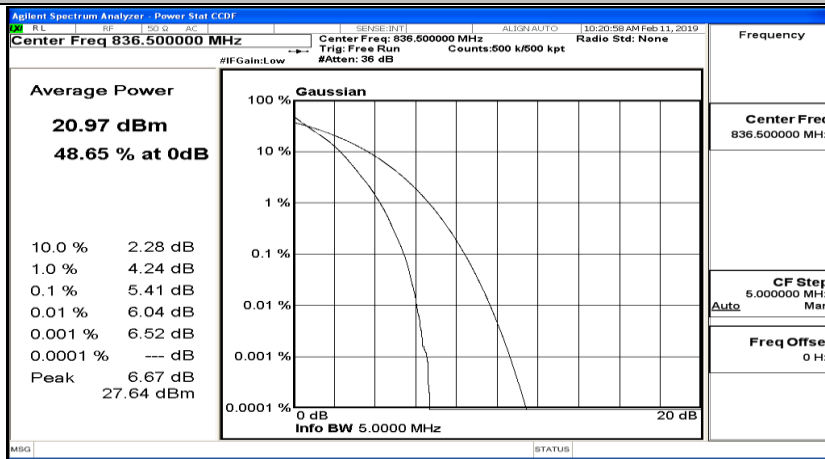
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



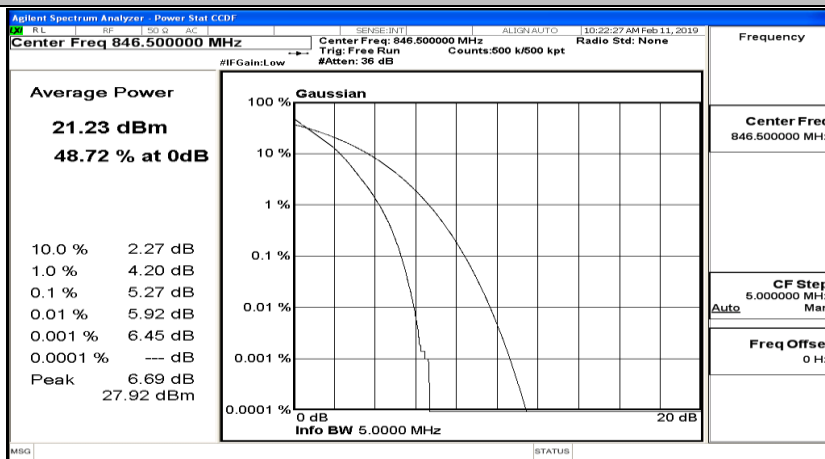
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



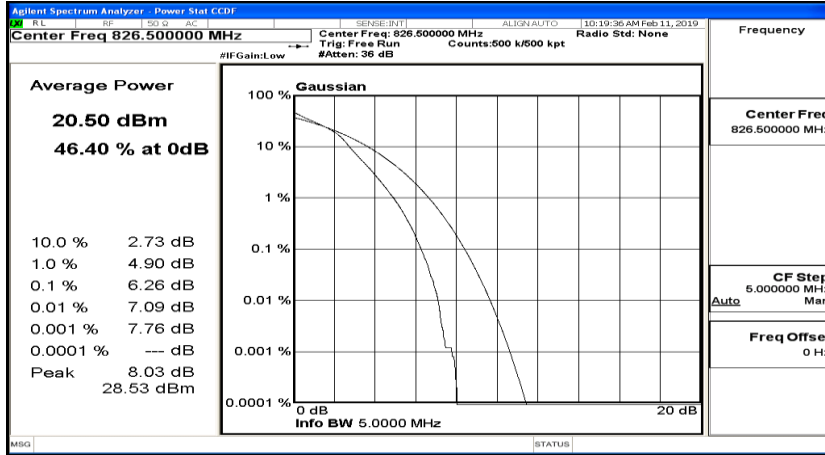
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



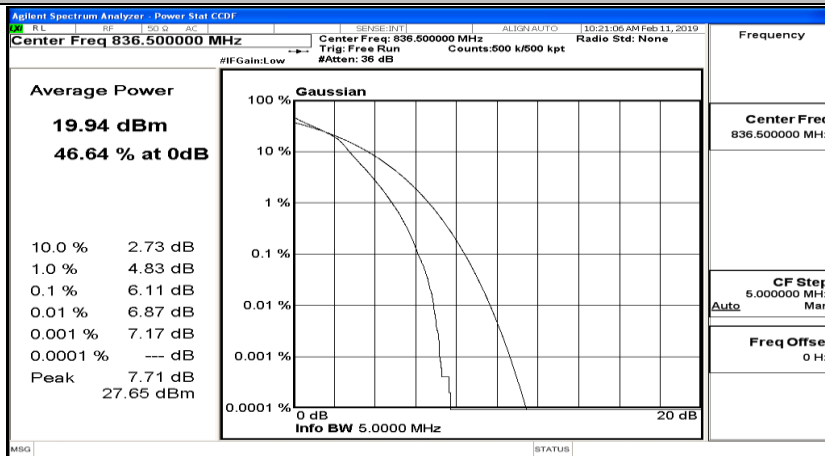
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



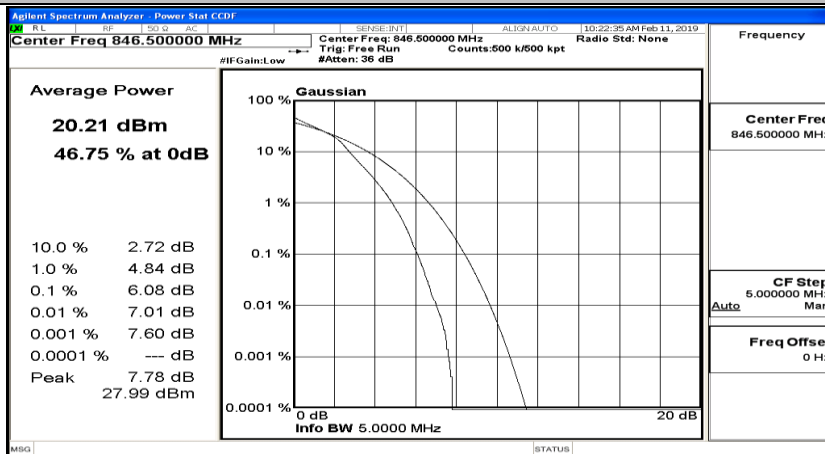
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



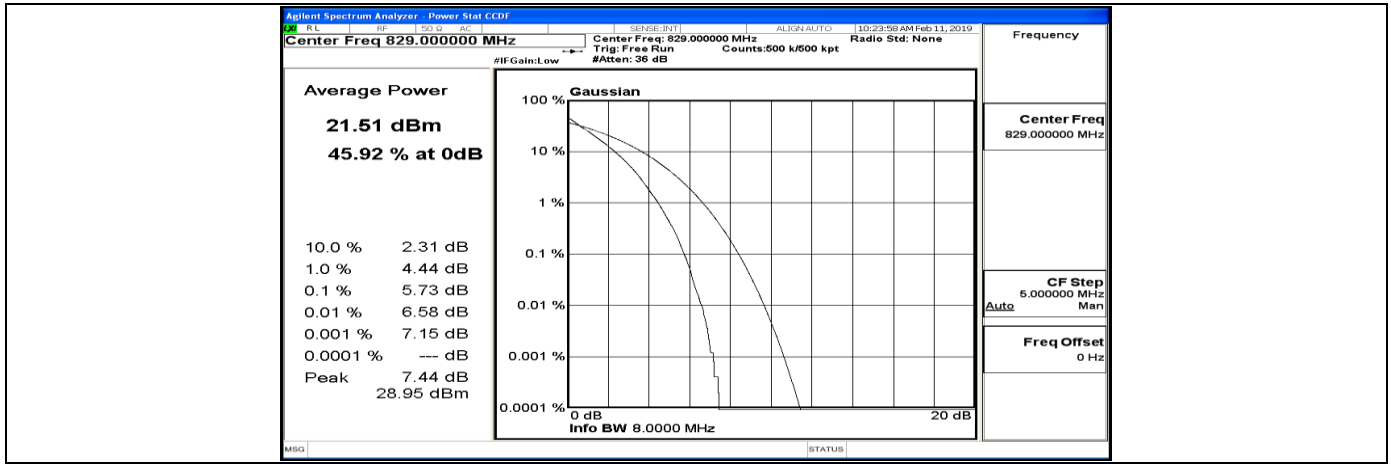
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



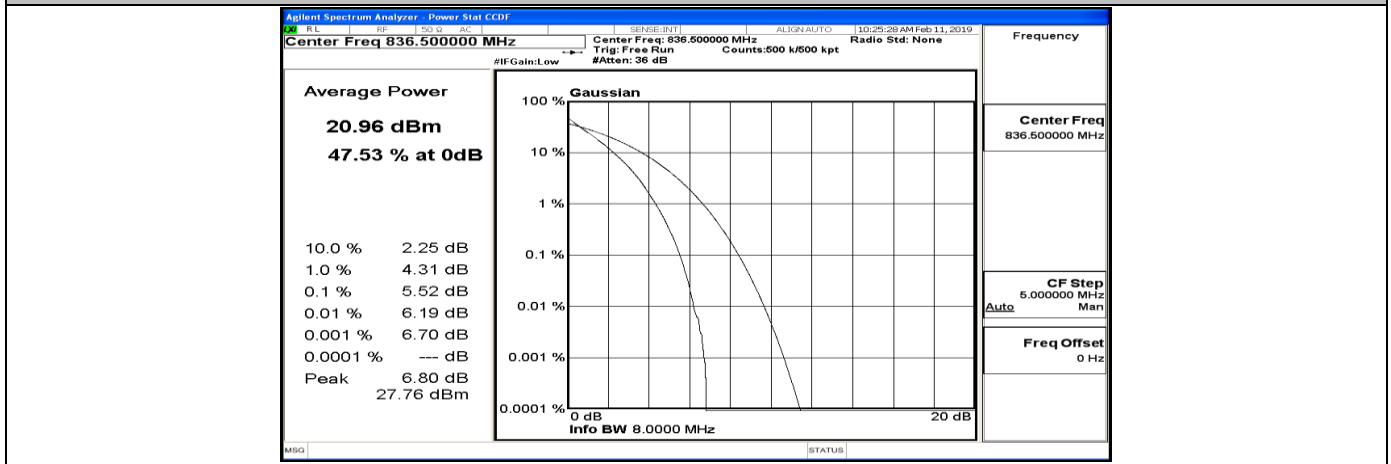
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



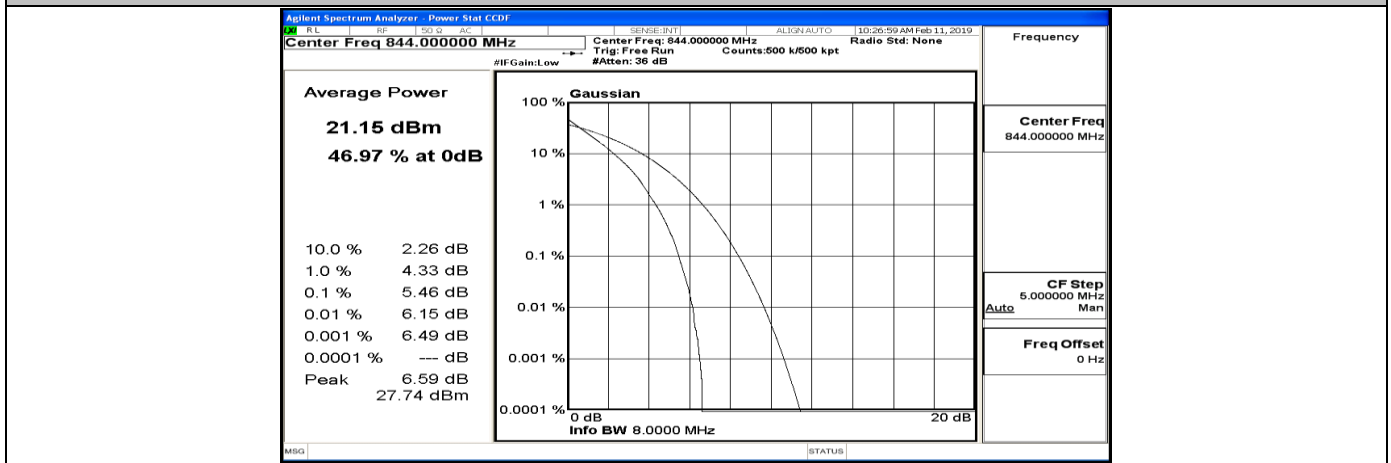
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



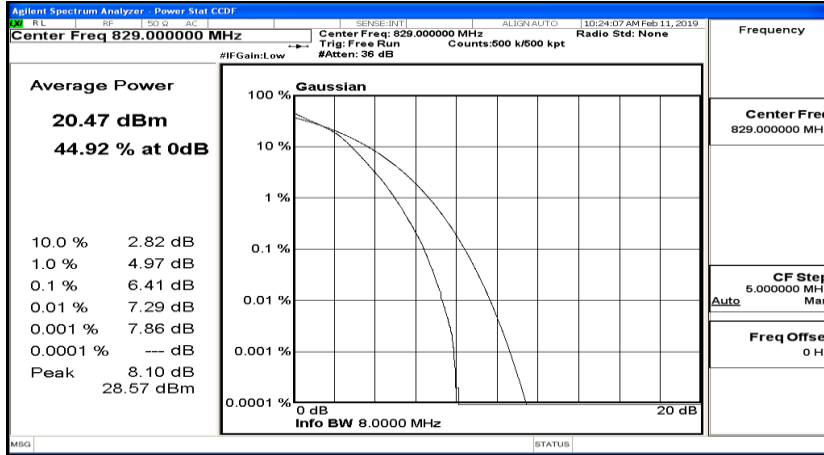
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



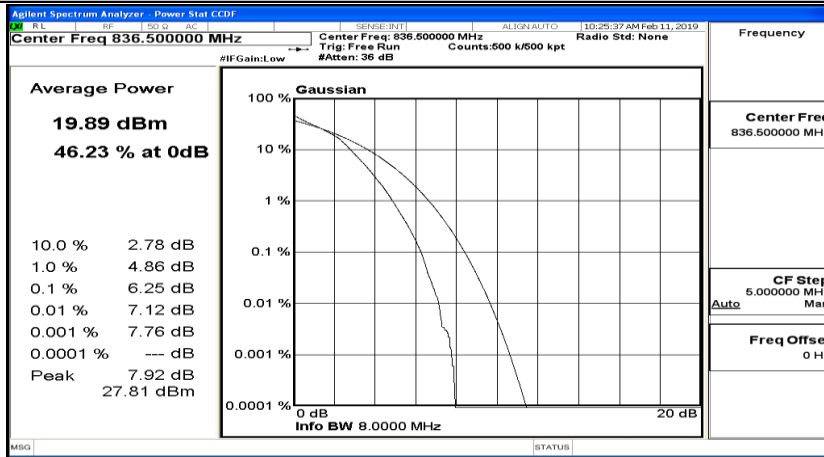
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



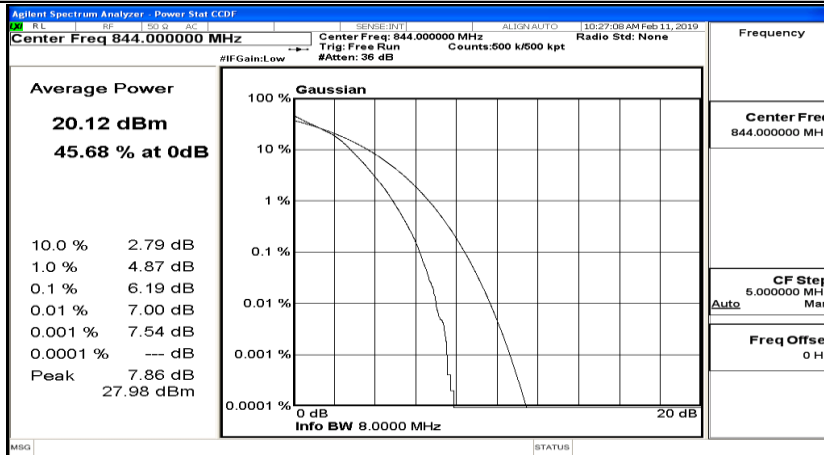
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

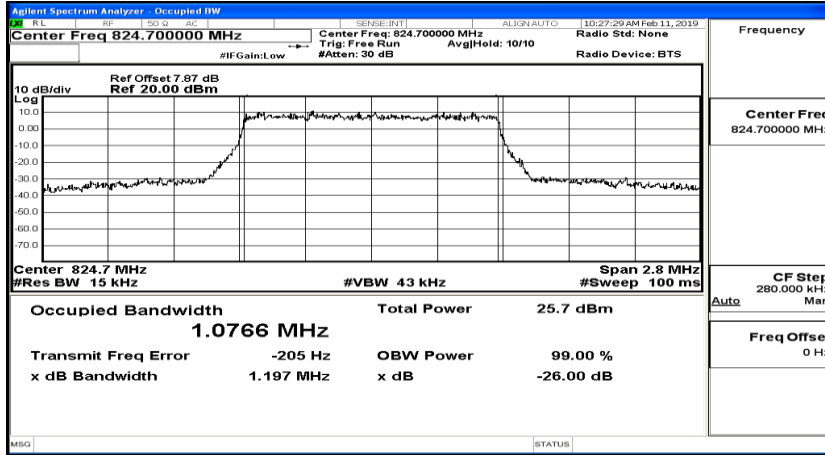
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0766	1.197	PASS
	MCH	1.0753	1.215	PASS
	HCH	1.0796	1.220	PASS
16QAM	LCH	1.0748	1.210	PASS
	MCH	1.0771	1.225	PASS
	HCH	1.0772	1.212	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6768	2.870	PASS
	MCH	2.6826	2.871	PASS
	HCH	2.6837	2.866	PASS
16QAM	LCH	2.6838	2.869	PASS
	MCH	2.6802	2.866	PASS
	HCH	2.6848	2.881	PASS

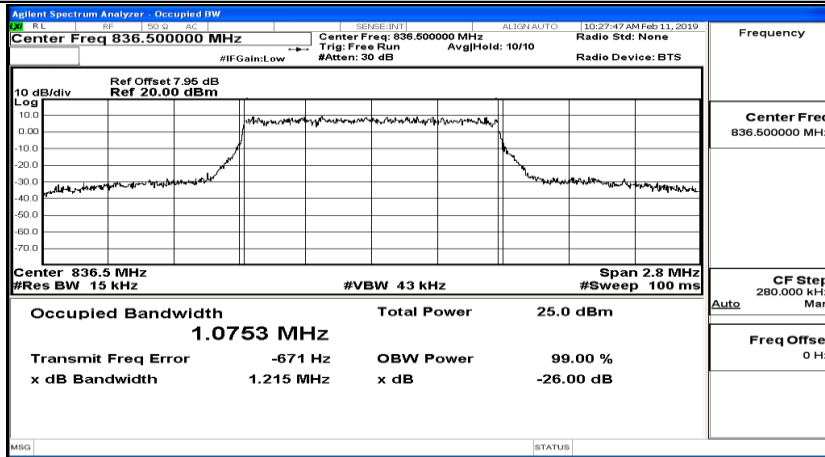
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4720	4.786	PASS
	MCH	4.4688	4.825	PASS
	HCH	4.4785	4.829	PASS
16QAM	LCH	4.4756	4.844	PASS
	MCH	4.4676	4.766	PASS
	HCH	4.4744	4.840	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9497	9.413	PASS
	MCH	8.9283	9.433	PASS
	HCH	8.9517	9.439	PASS
16QAM	LCH	8.9455	9.487	PASS
	MCH	8.9247	9.506	PASS
	HCH	8.9491	9.443	PASS

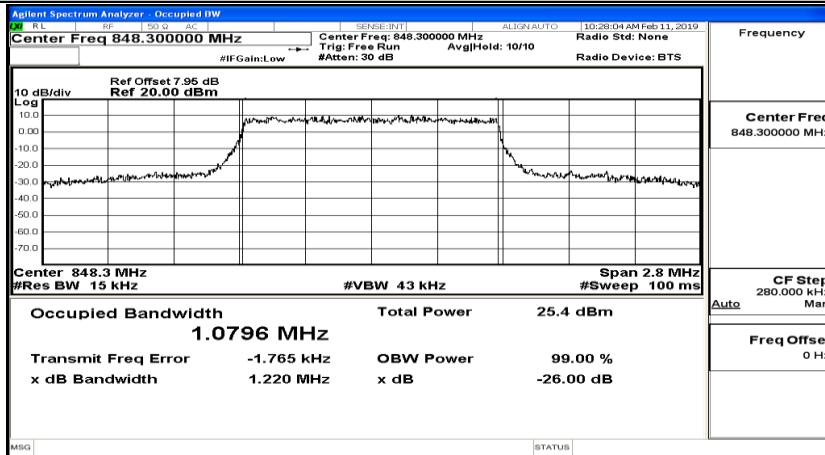
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



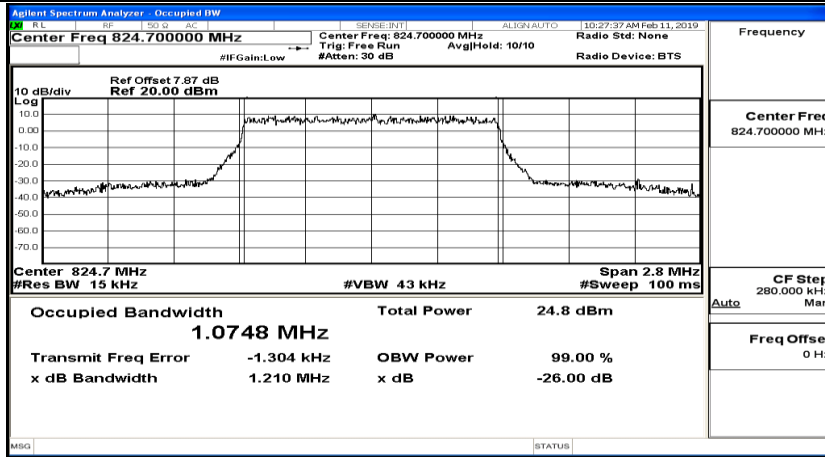
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



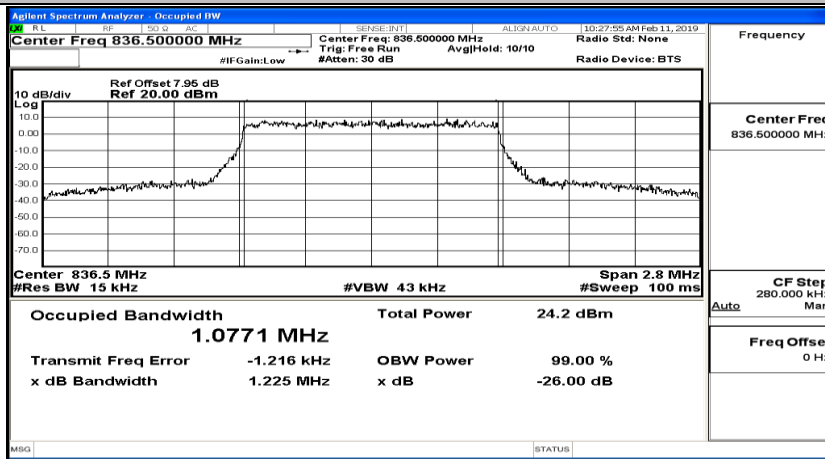
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



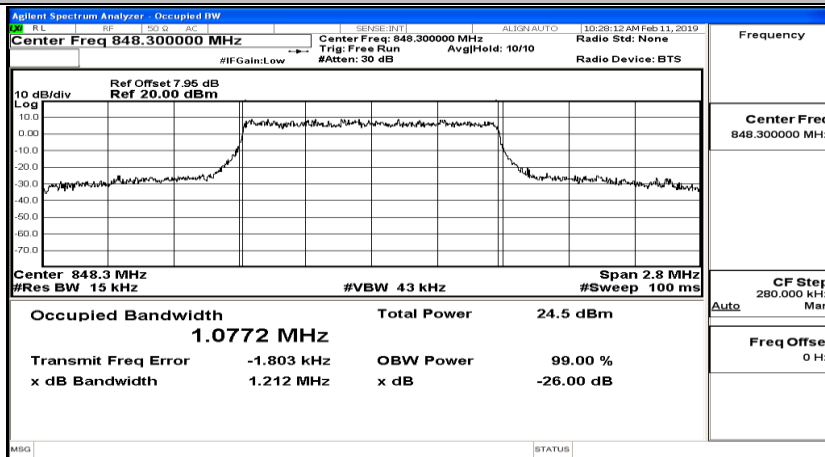
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



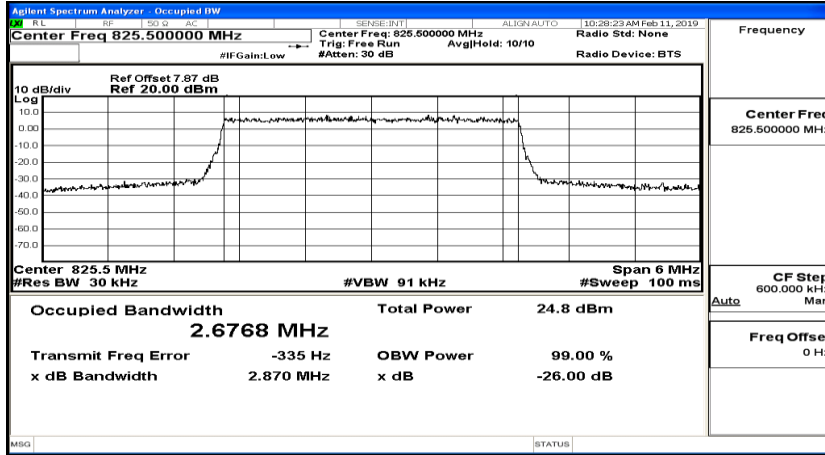
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



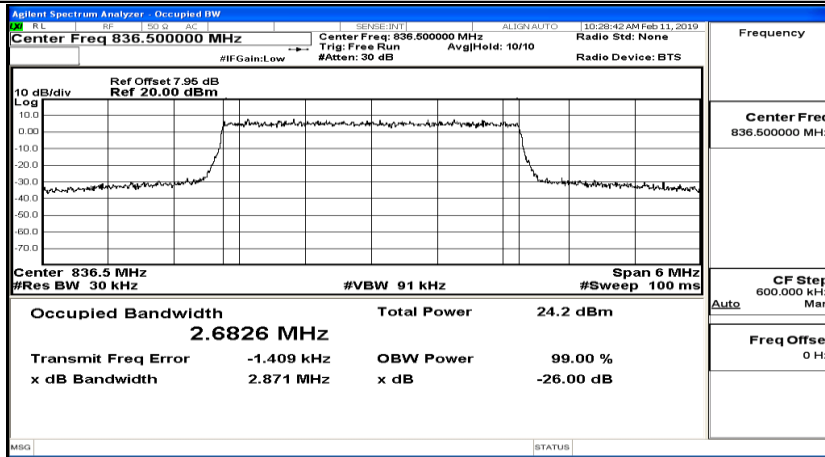
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



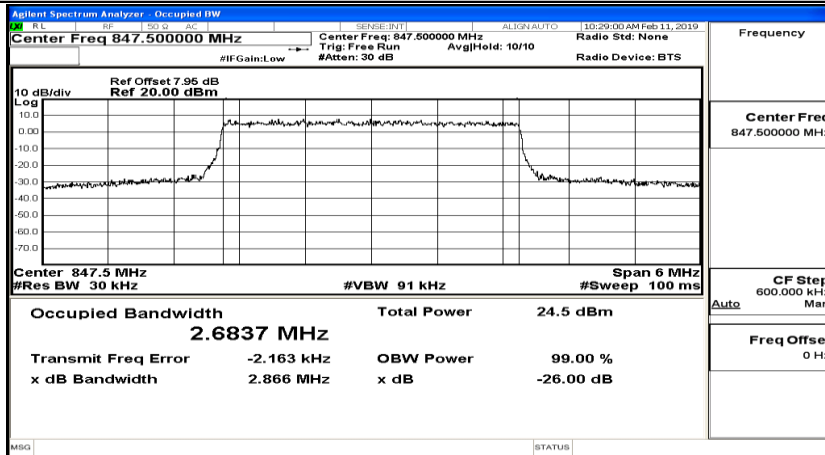
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



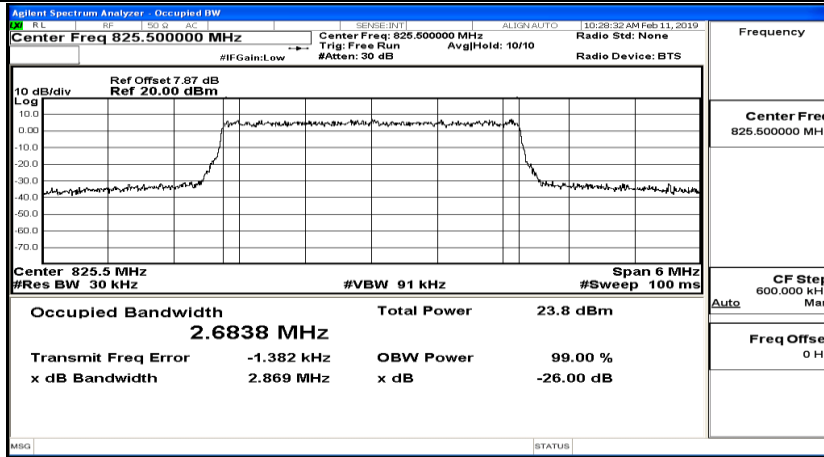
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



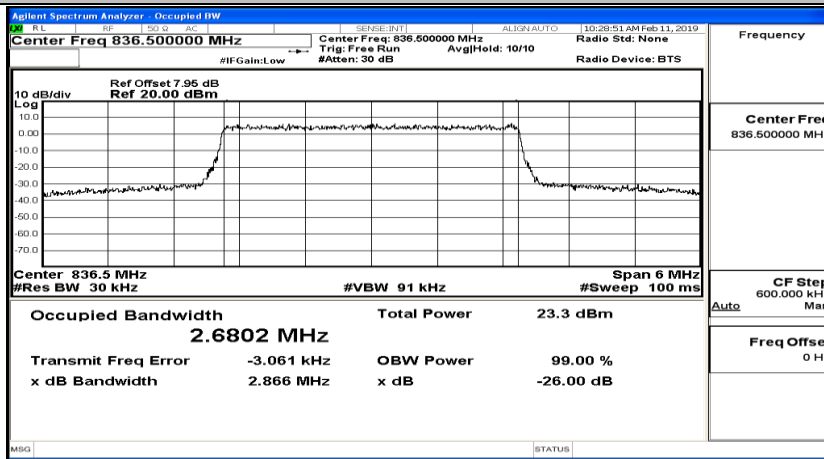
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



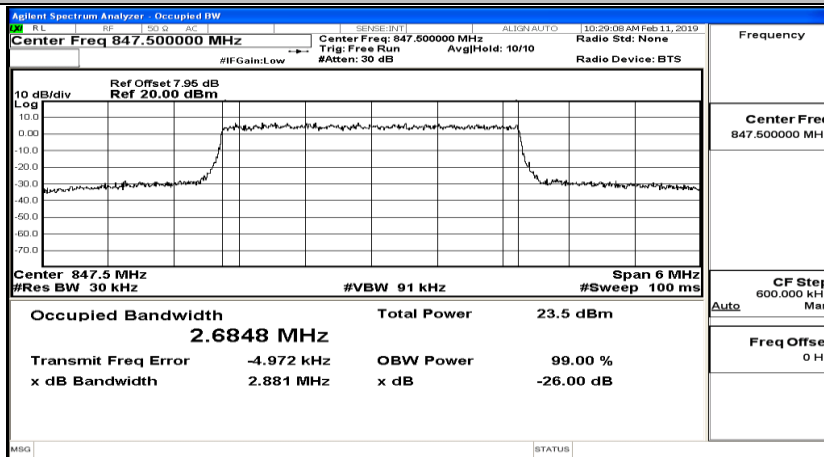
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



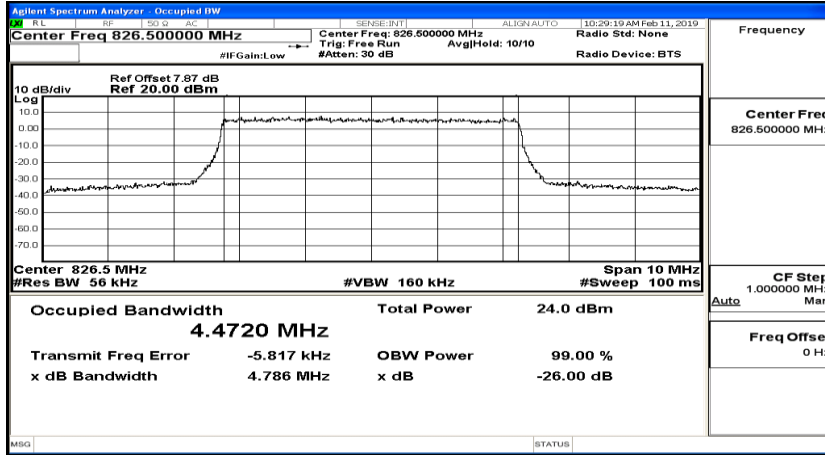
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



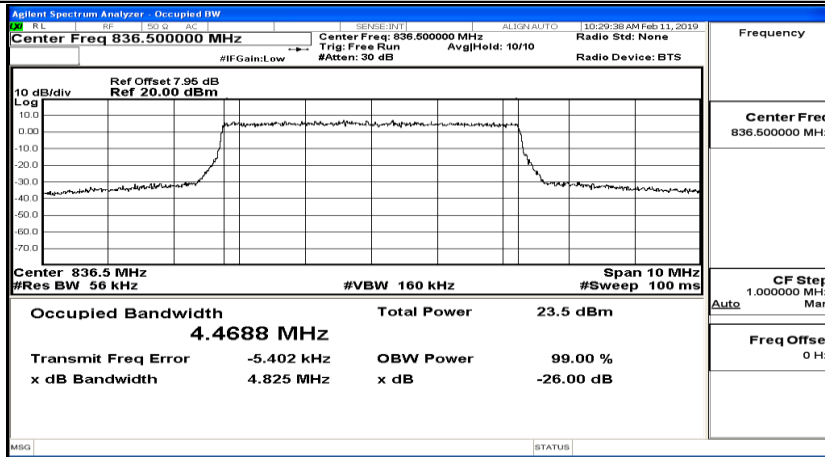
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



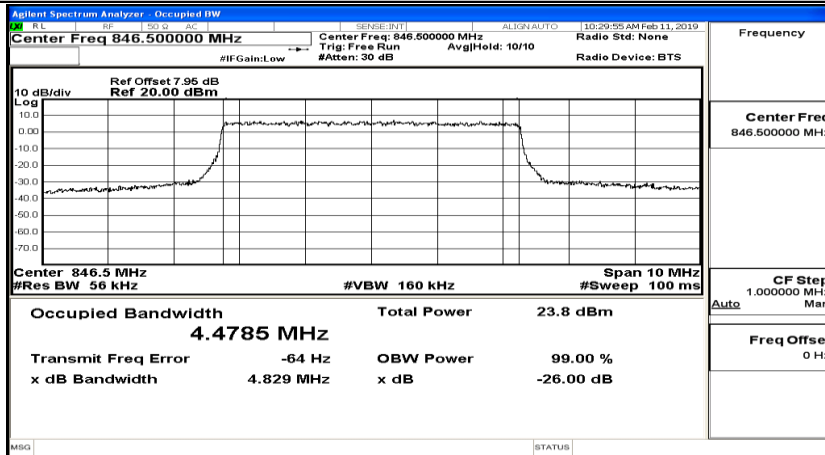
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



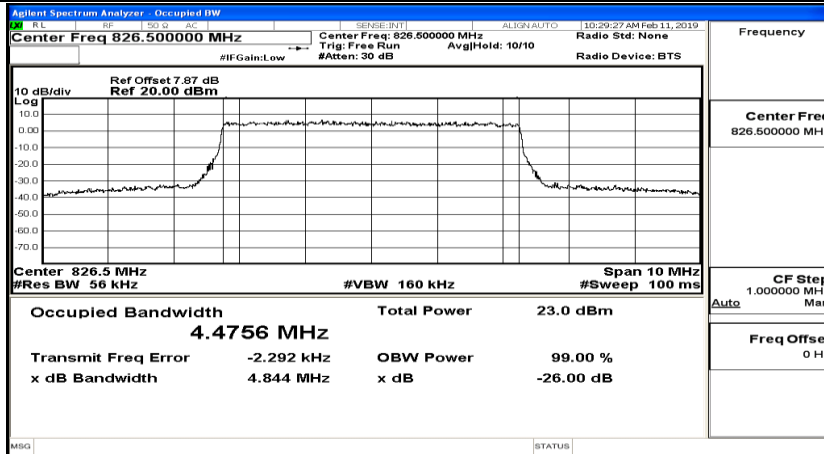
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



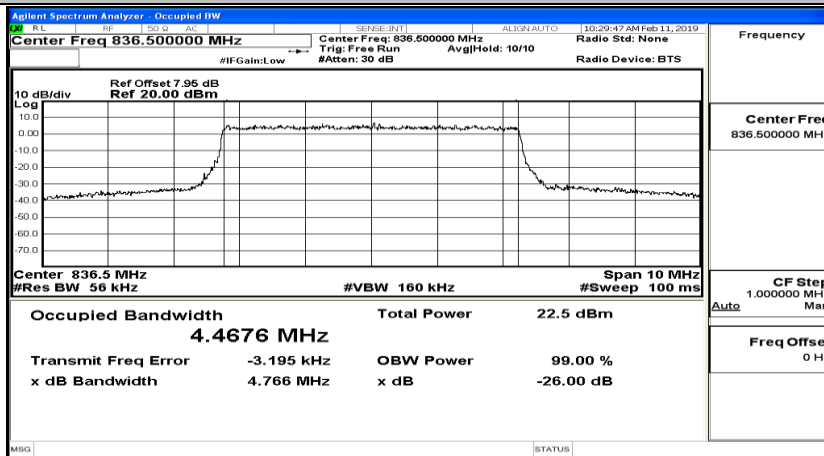
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



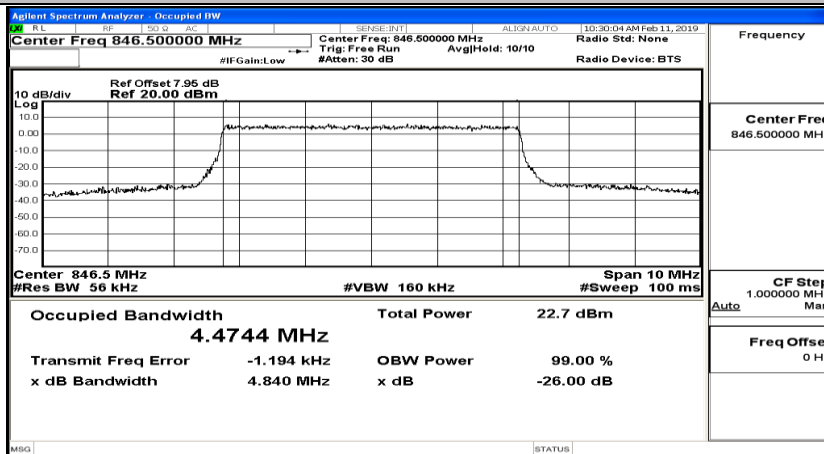
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



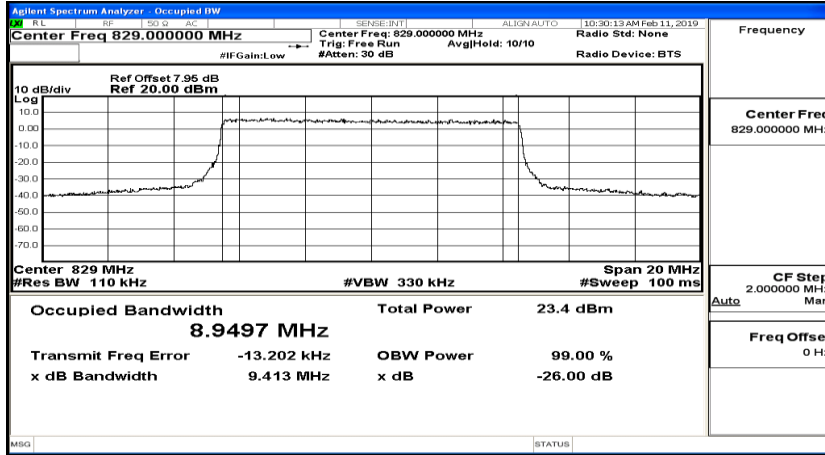
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



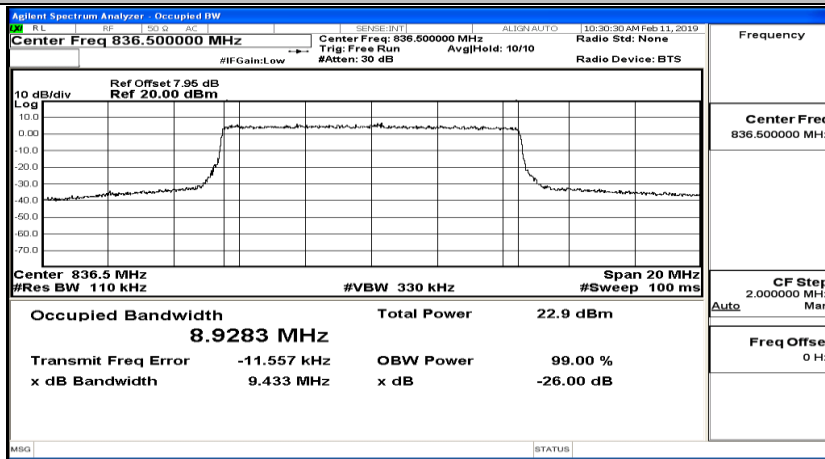
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



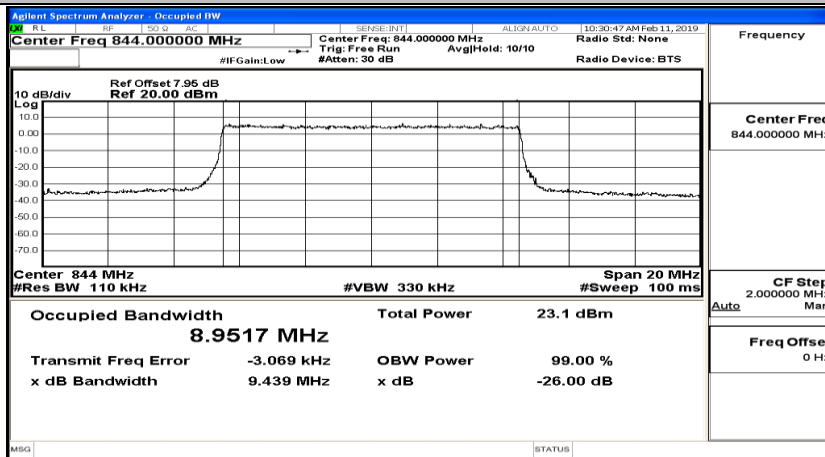
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



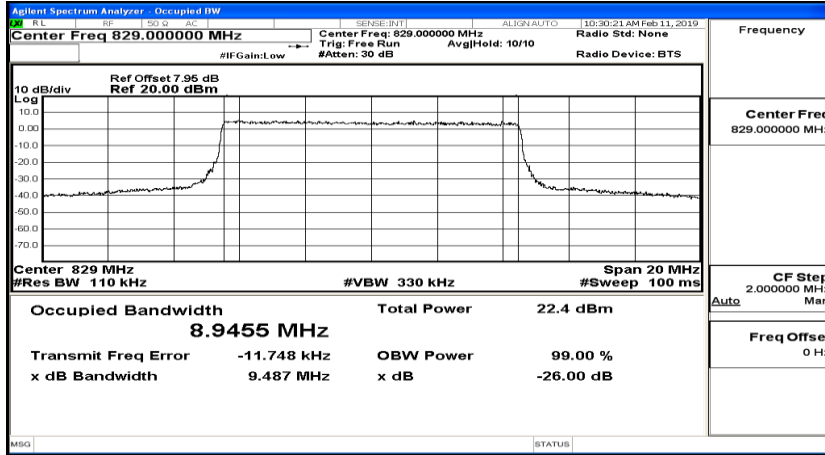
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



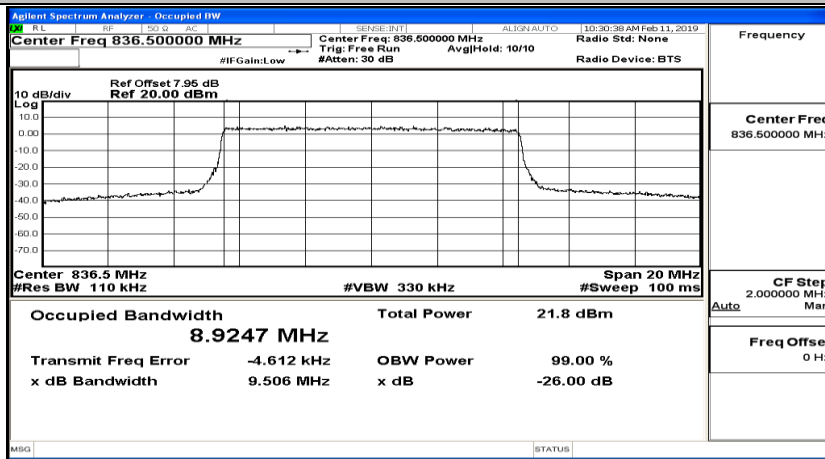
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



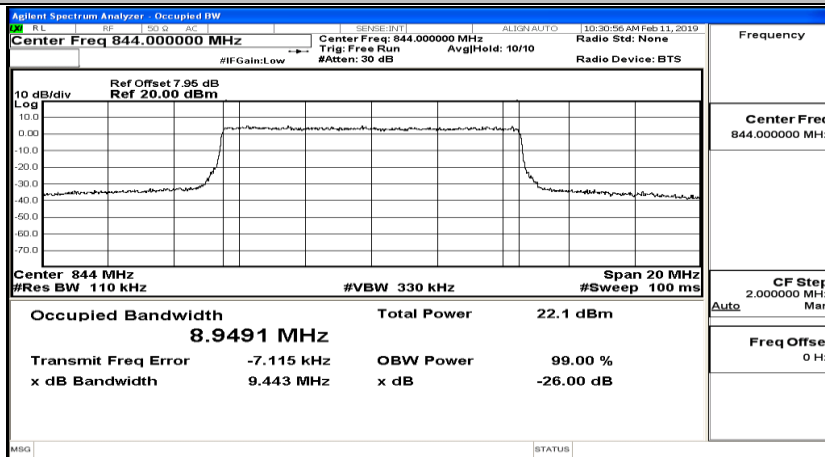
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

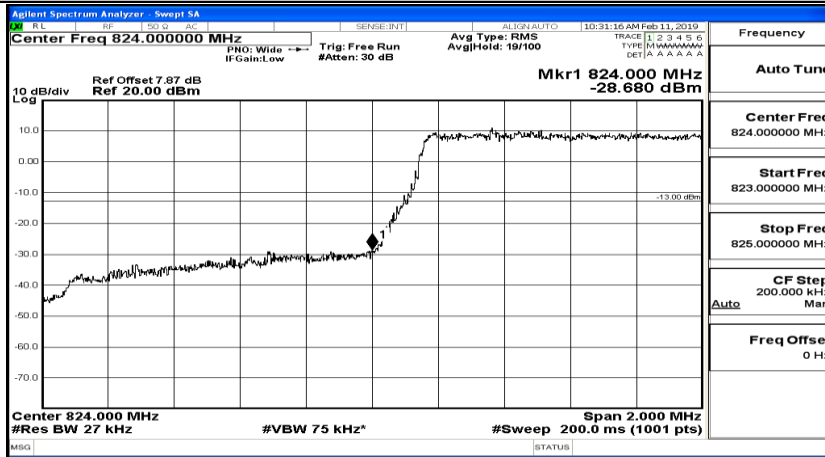


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

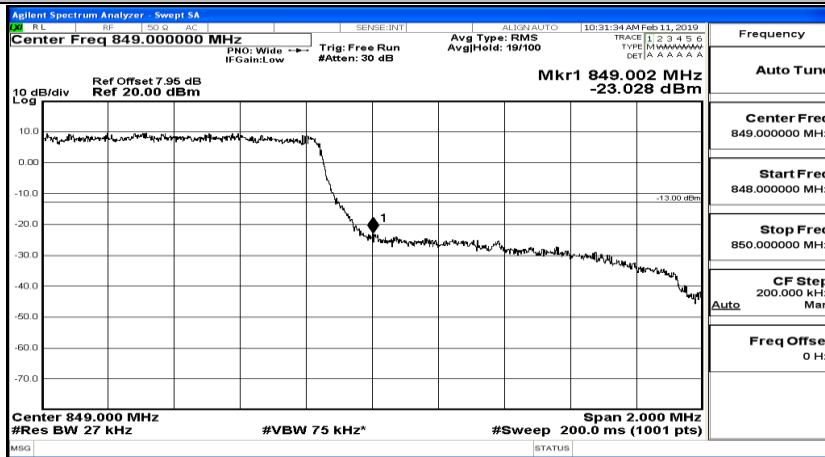


H.4 Band Edge

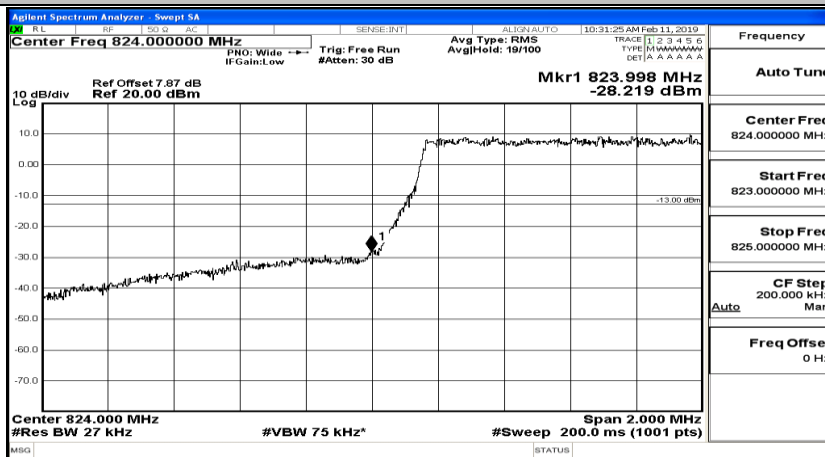
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



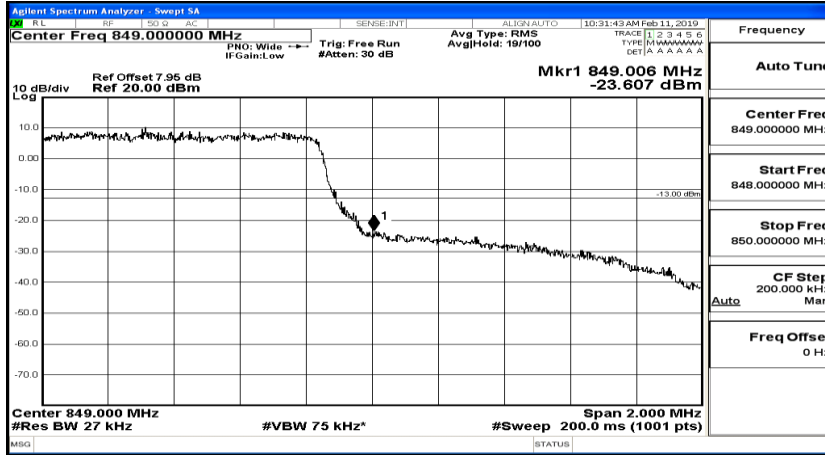
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



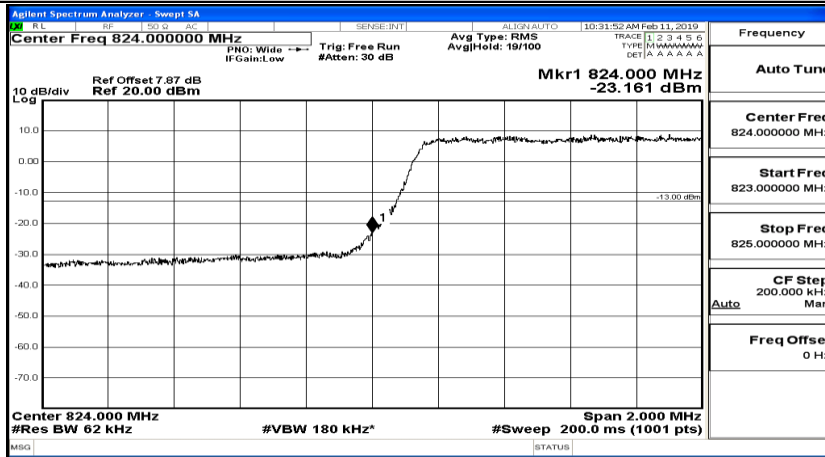
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



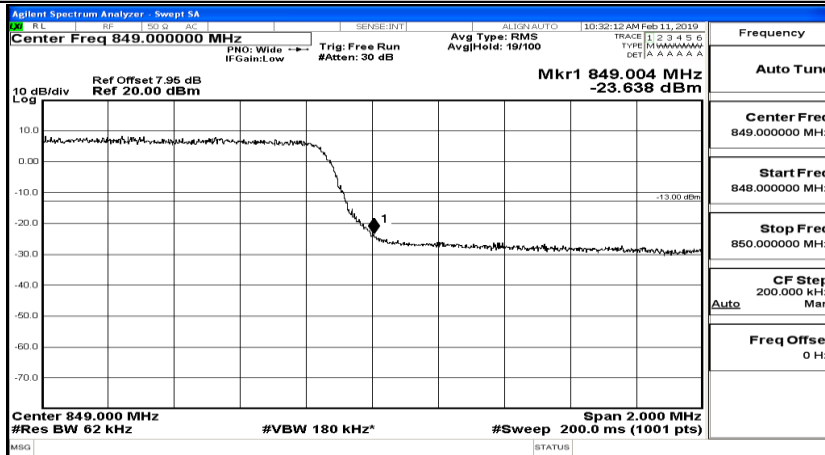
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



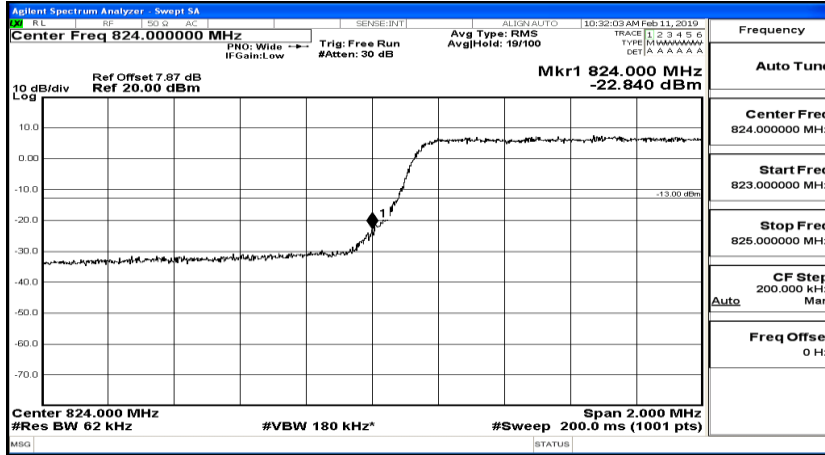
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



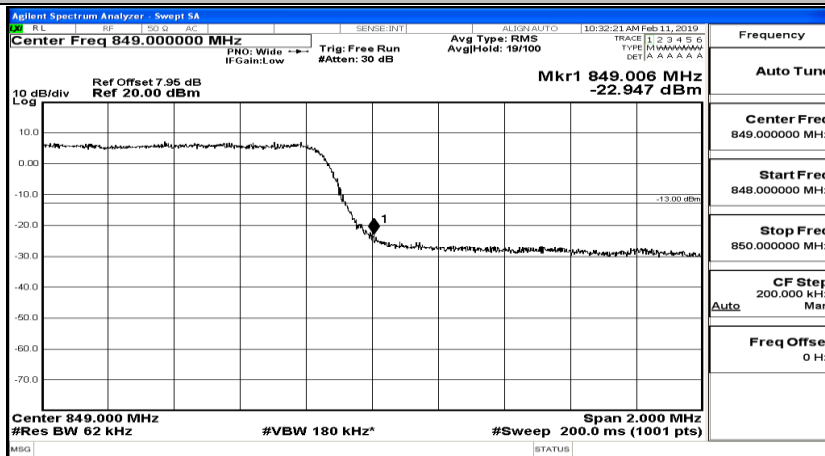
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



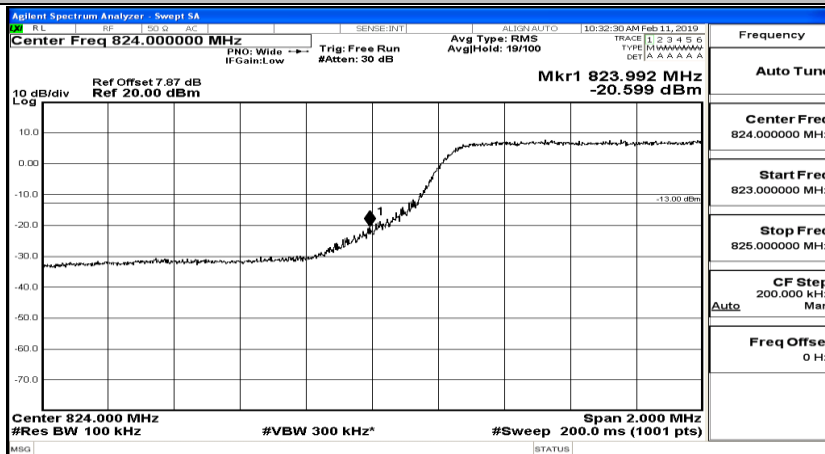
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



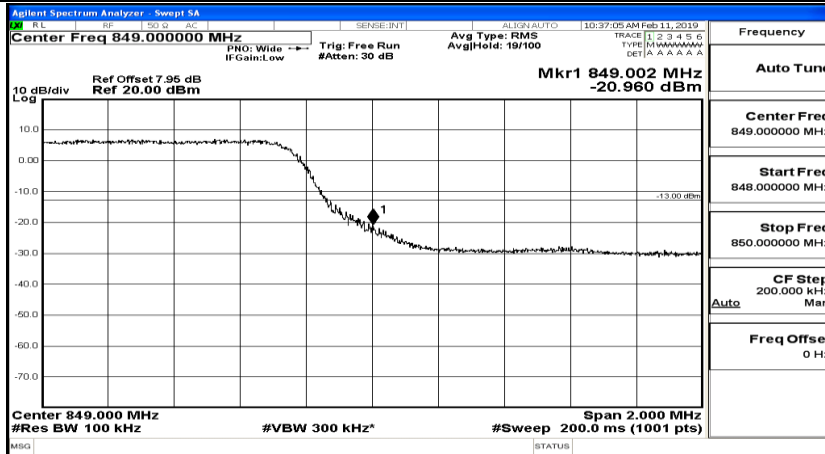
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



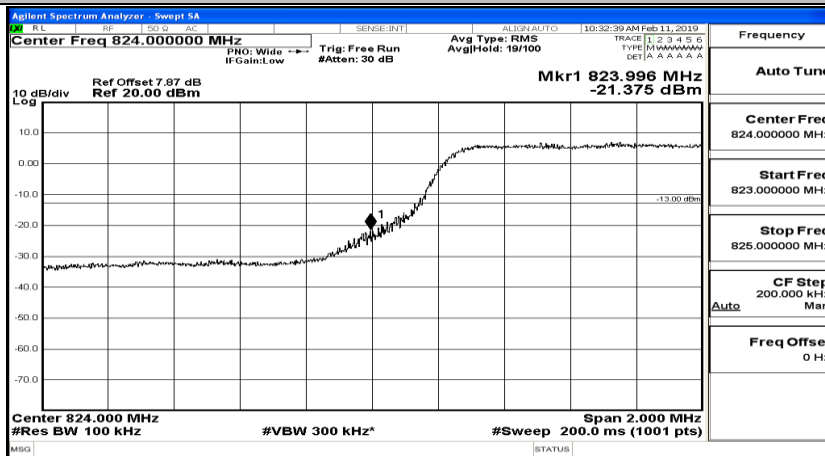
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



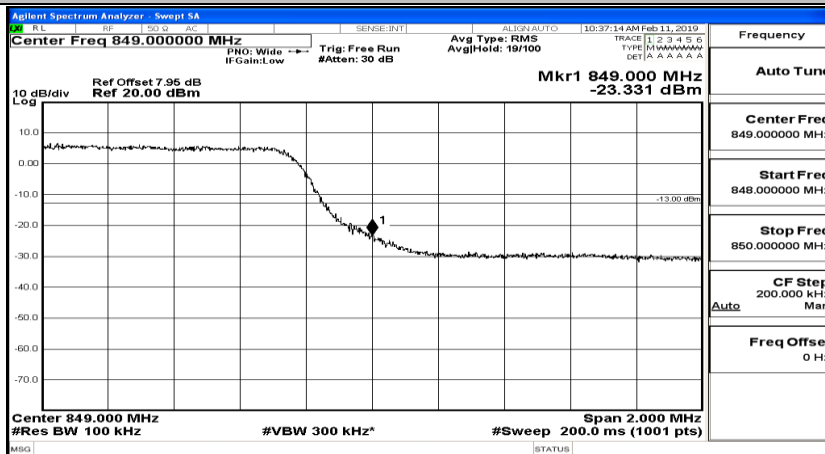
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



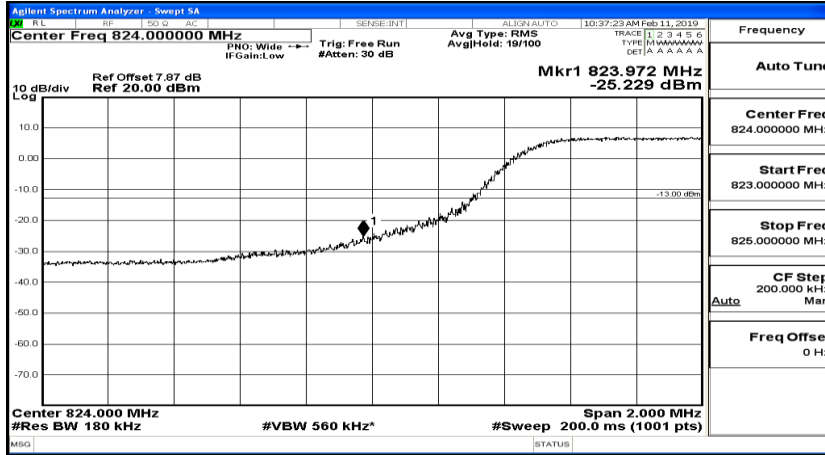
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



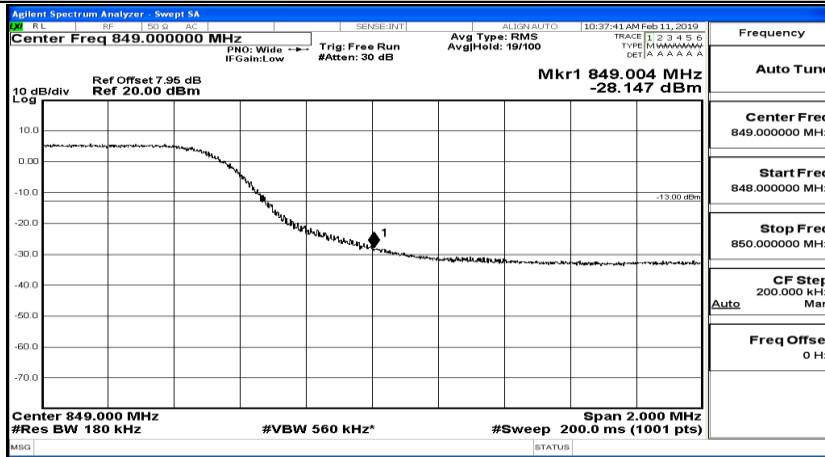
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



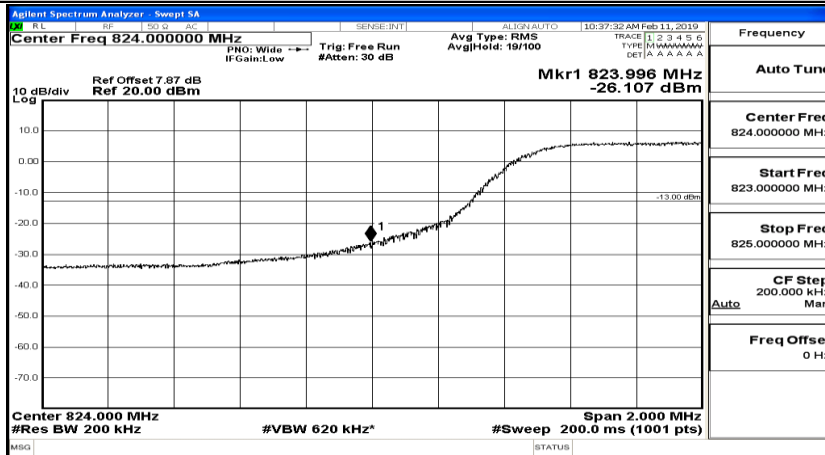
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



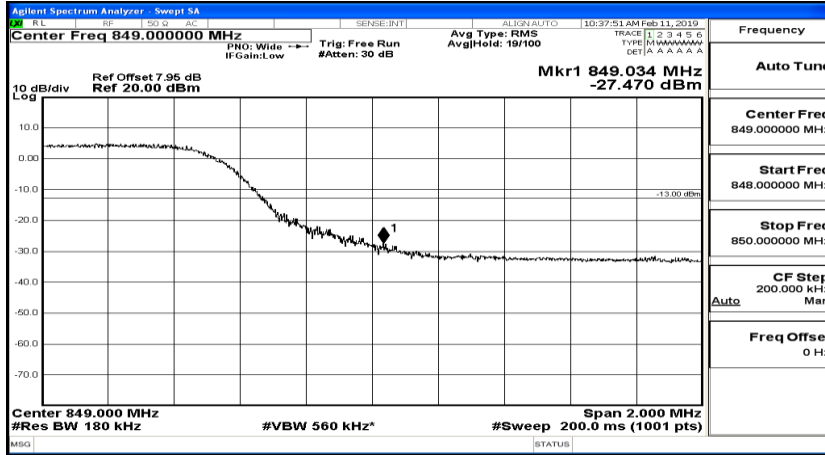
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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

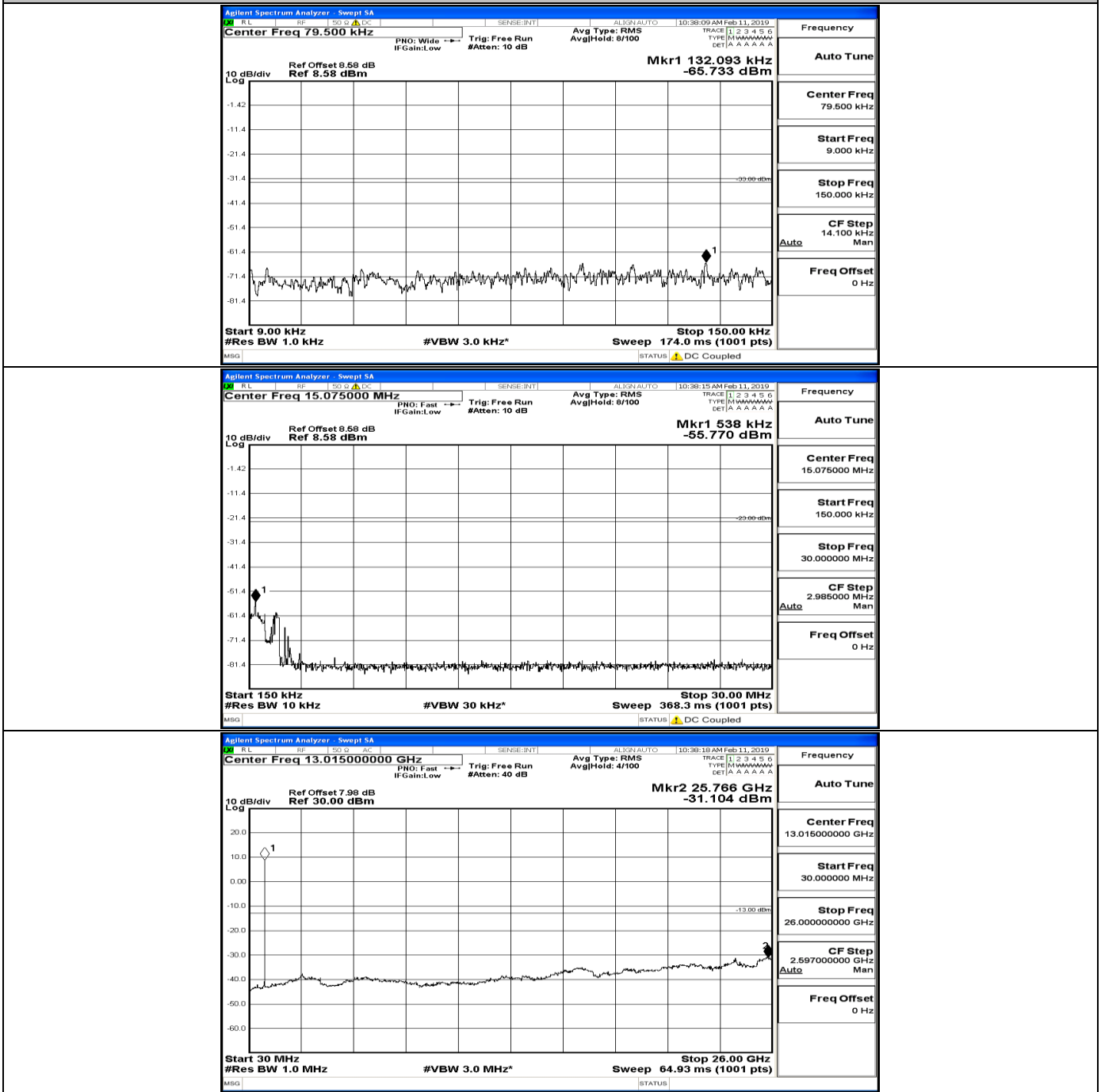


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



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

