Appendix A: Test Data for E-UTRA Band 2

Product Name: Personal Mobile Alarm System
Trade Mark: N/A
Test Model: EV-07B-LTE

Environmental Conditions

Temperature:	22.6° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Wang.Chuang

A.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.63	22.78	PASS
		1	3	22.64	22.80	PASS
		1	5	22.60	22.82	PASS
		3	0	22.61	21.84	PASS
		3	2	22.69	21.85	PASS
		3	3	22.63	21.87	PASS
		6	0	21.64	20.58	PASS
	MCH	1	0	22.49	22.31	PASS
		1	3	22.33	22.54	PASS
		1	5	22.39	21.17	PASS
		3	0	22.37	21.21	PASS
		3	2	22.68	21.18	PASS
		3	3	22.32	21.23	PASS
		6	0	21.24	20.45	PASS
	HCH	1	0	22.23	22.49	PASS
		1	3	22.20	22.54	PASS
		1	5	22.19	22.41	PASS
		3	0	22.30	21.45	PASS
		3	2	22.30	21.46	PASS
		3	3	22.31	21.45	PASS
		6	0	21.18	20.15	PASS

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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	22.57	22.68	PASS
		1	7	22.57	22.71	PASS
		1	14	22.56	22.62	PASS
		8	0	21.73	20.67	PASS
		8	4	21.67	20.66	PASS
		8	7	21.68	20.66	PASS
		15	0	21.64	20.79	PASS
	MCH	1	0	22.23	21.74	PASS
		1	7	22.27	21.80	PASS
		1	14	22.36	21.89	PASS
		8	0	21.30	20.29	PASS
		8	4	21.40	20.36	PASS
		8	7	21.41	20.37	PASS
		15	0	21.36	20.47	PASS
	HCH	1	0	22.19	22.15	PASS
		1	7	22.20	22.17	PASS
		1	14	22.24	22.13	PASS
		8	0	21.30	20.29	PASS
		8	4	21.25	20.34	PASS
		8	7	21.24	20.43	PASS
		15	0	21.30	20.32	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	22.60	22.23	PASS
		1	12	22.73	22.37	PASS
		1	24	22.65	22.34	PASS
		12	0	21.76	20.87	PASS
		12	6	21.63	20.78	PASS
		12	13	21.61	20.78	PASS
		25	0	21.73	20.74	PASS
	MCH	1	0	22.18	22.19	PASS
		1	12	22.36	22.32	PASS
		1	24	22.45	22.50	PASS
		12	0	21.26	20.65	PASS
		12	6	21.40	20.67	PASS
		12	13	21.36	20.74	PASS
		25	0	21.38	20.52	PASS
	HCH	1	0	22.18	20.72	PASS
		1	12	22.24	20.73	PASS
		1	24	22.19	20.69	PASS
		12	0	21.24	20.41	PASS
		12	6	21.18	20.36	PASS
		12	13	21.32	20.42	PASS
		25	0	21.31	20.44	PASS

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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	22.60	22.67	PASS
		1	24	22.63	22.72	PASS
		1	49	22.45	22.54	PASS
		25	0	21.56	20.61	PASS
		25	12	21.73	20.65	PASS
		25	25	21.52	20.51	PASS
		50	0	21.64	20.66	PASS
	MCH	1	0	22.05	22.04	PASS
		1	24	22.16	22.21	PASS
		1	49	22.41	22.48	PASS
		25	0	21.18	20.43	PASS
		25	12	21.31	20.43	PASS
		25	25	21.44	20.60	PASS
		50	0	21.39	20.51	PASS
	HCH	1	0	22.33	22.00	PASS
		1	24	22.27	21.88	PASS
		1	49	22.21	21.84	PASS
		25	0	21.24	20.42	PASS
		25	12	21.26	20.41	PASS
		25	25	21.23	20.31	PASS
		50	0	21.28	20.50	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.56	22.73	PASS
		1	37	22.56	22.68	PASS
		1	74	22.27	22.32	PASS
		37	0	21.60	20.74	PASS
		37	18	21.61	20.62	PASS
		37	38	21.51	20.50	PASS
		75	0	21.55	20.69	PASS
	MCH	1	0	21.93	21.95	PASS
		1	37	22.22	22.25	PASS
		1	74	22.41	22.47	PASS
		37	0	21.11	20.34	PASS
		37	18	21.20	20.42	PASS
		37	38	21.42	20.56	PASS
		75	0	21.33	20.46	PASS
	HCH	1	0	22.48	22.51	PASS
		1	37	22.27	22.25	PASS
		1	74	22.18	22.19	PASS
		37	0	21.38	20.60	PASS
		37	18	21.28	20.47	PASS
		37	38	21.26	20.47	PASS
		75	0	21.44	20.58	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.75	21.28	PASS
		1	49	22.67	21.21	PASS
		1	99	22.19	20.72	PASS
		50	0	21.63	20.75	PASS
		50	25	21.50	20.56	PASS
		50	50	21.26	20.46	PASS
		100	0	21.49	20.56	PASS
	MCH	1	0	22.23	20.66	PASS
		1	49	22.49	20.86	PASS
		1	99	22.73	21.19	PASS
		50	0	21.16	20.28	PASS
		50	25	21.28	20.37	PASS
		50	50	21.40	20.64	PASS
		100	0	21.38	20.44	PASS
	HCH	1	0	22.87	21.34	PASS
		1	49	22.67	21.14	PASS
		1	99	22.47	20.95	PASS
		50	0	21.62	20.59	PASS
		50	25	21.42	20.54	PASS
		50	50	21.29	20.39	PASS
		100	0	21.38	20.53	PASS

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A.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	5.48	<13	PASS
	MCH	5.56	<13	PASS
	HCH	5.29	<13	PASS
16QAM	LCH	6.31	<13	PASS
	MCH	6.5	<13	PASS
	HCH	6.25	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.5	<13	PASS
	MCH	5.64	<13	PASS
	HCH	5.48	<13	PASS
16QAM	LCH	6.39	<13	PASS
	MCH	6.55	<13	PASS
	HCH	6.22	<13	PASS

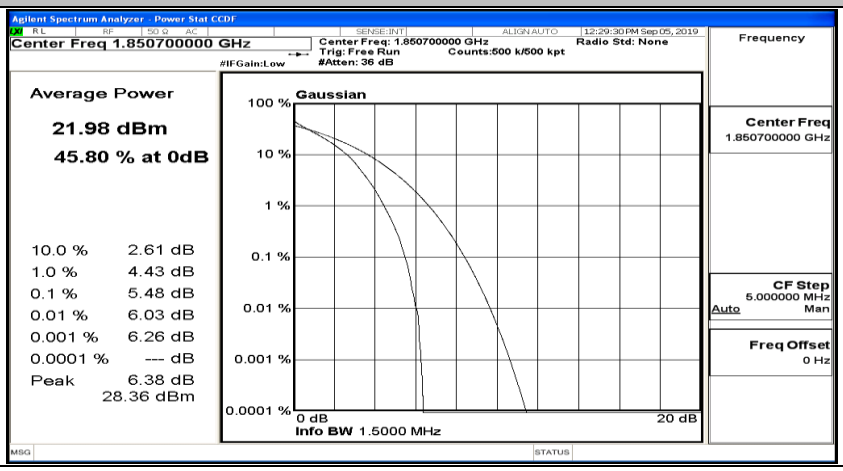
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.44	<13	PASS
	MCH	5.56	<13	PASS
	HCH	5.35	<13	PASS
16QAM	LCH	6.24	<13	PASS
	MCH	6.43	<13	PASS
	HCH	6.1	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.59	<13	PASS
	MCH	5.64	<13	PASS
	HCH	5.47	<13	PASS
16QAM	LCH	6.32	<13	PASS
	MCH	6.3	<13	PASS
	HCH	6.14	<13	PASS

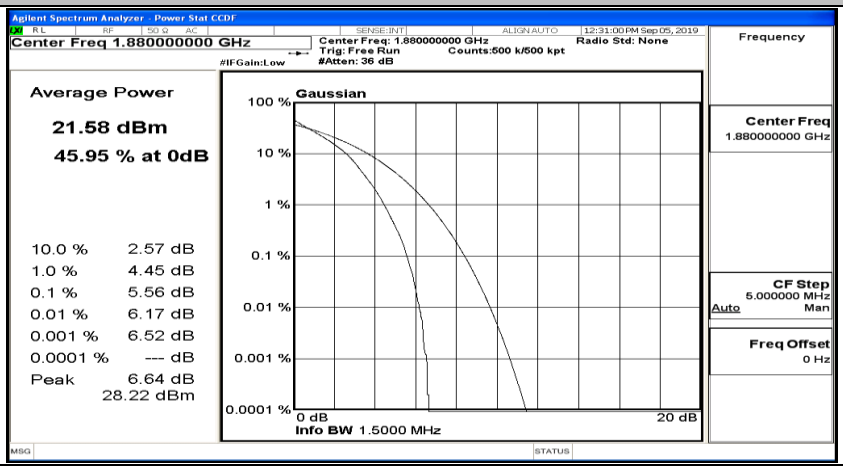
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.02	<13	PASS
	MCH	5.05	<13	PASS
	HCH	4.87	<13	PASS
16QAM	LCH	6.27	<13	PASS
	MCH	6.29	<13	PASS
	HCH	6.16	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.69	<13	PASS
	MCH	5.73	<13	PASS
	HCH	5.76	<13	PASS
16QAM	LCH	6.8	<13	PASS
	MCH	6.79	<13	PASS
	HCH	6.64	<13	PASS

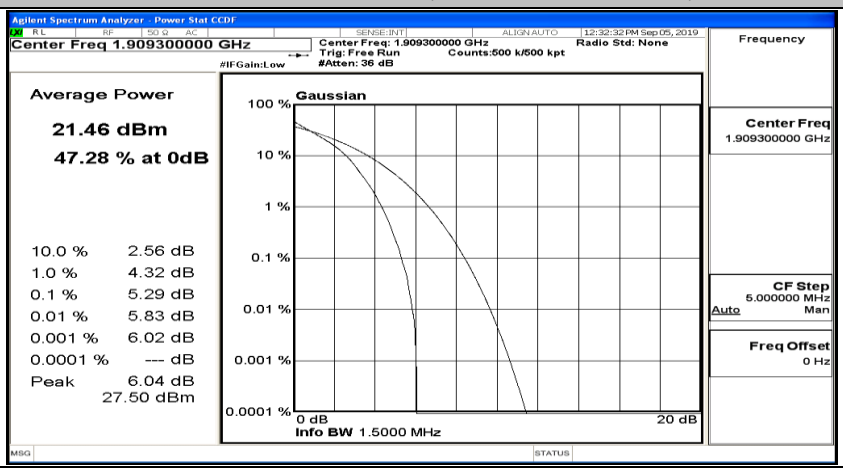
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



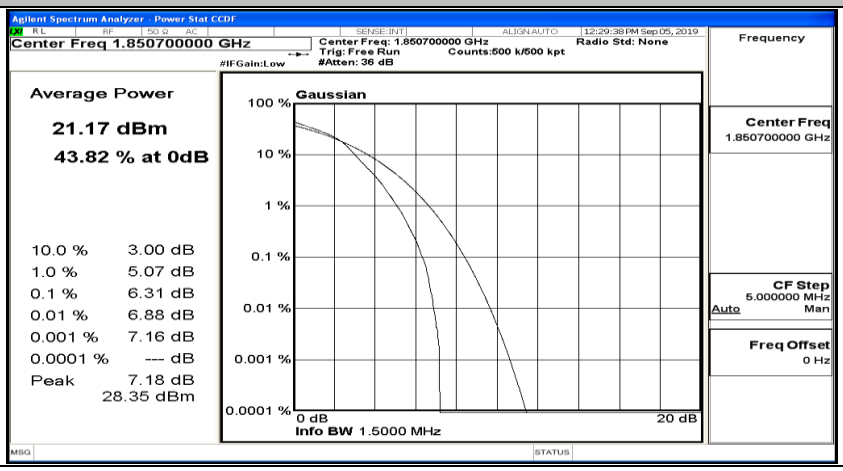
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



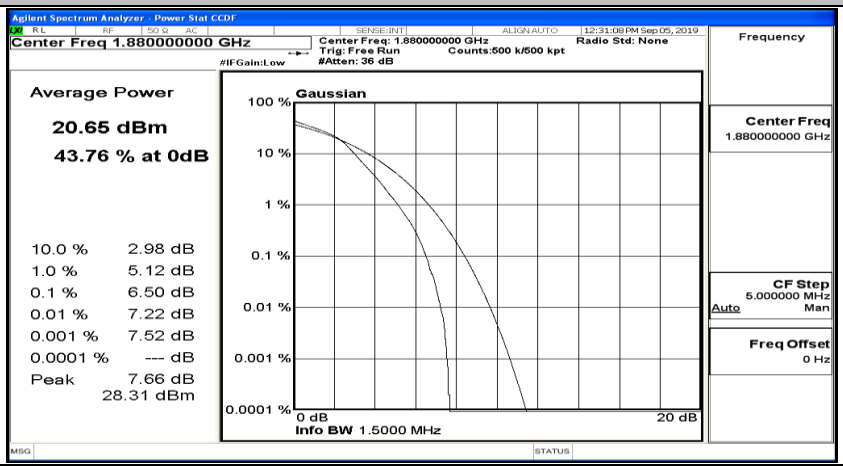
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



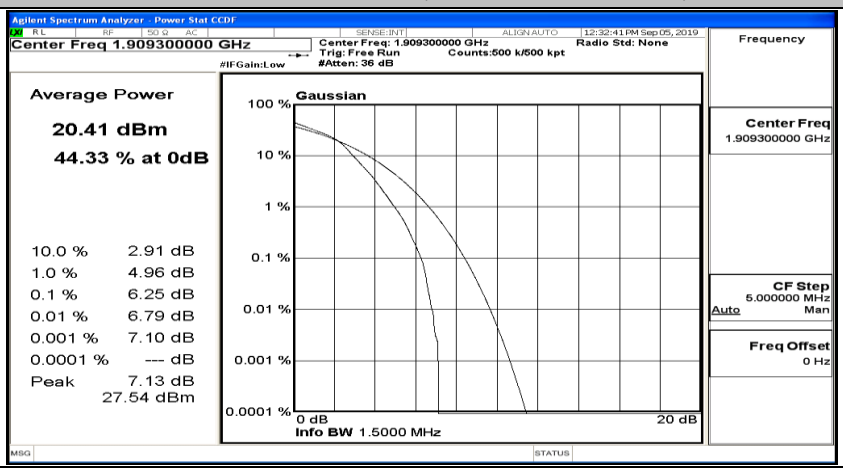
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



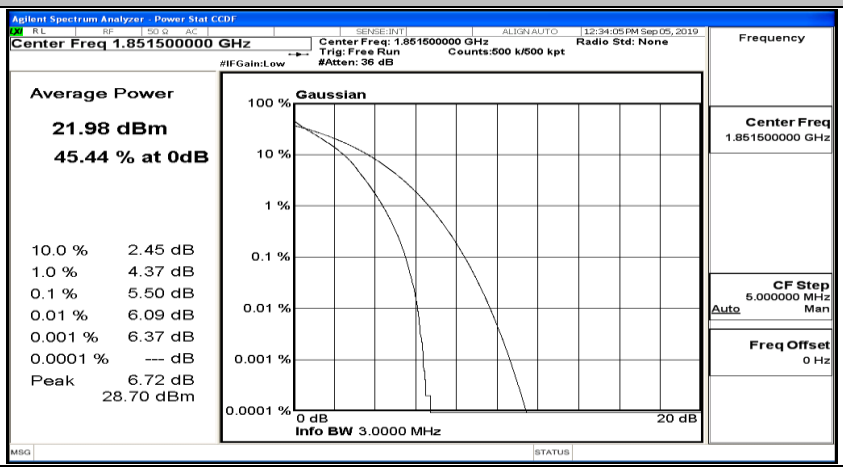
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



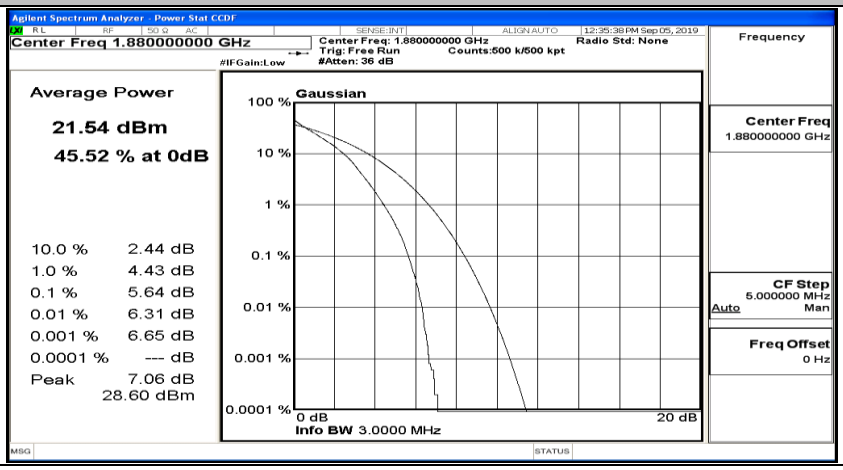
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



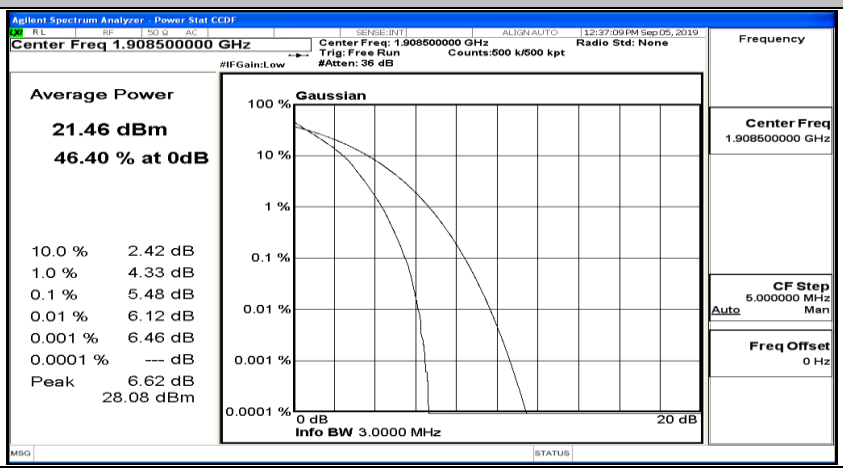
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



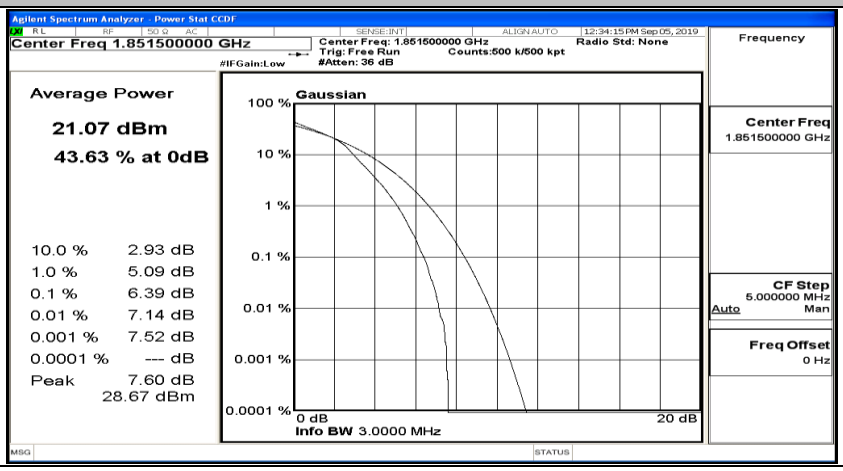
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



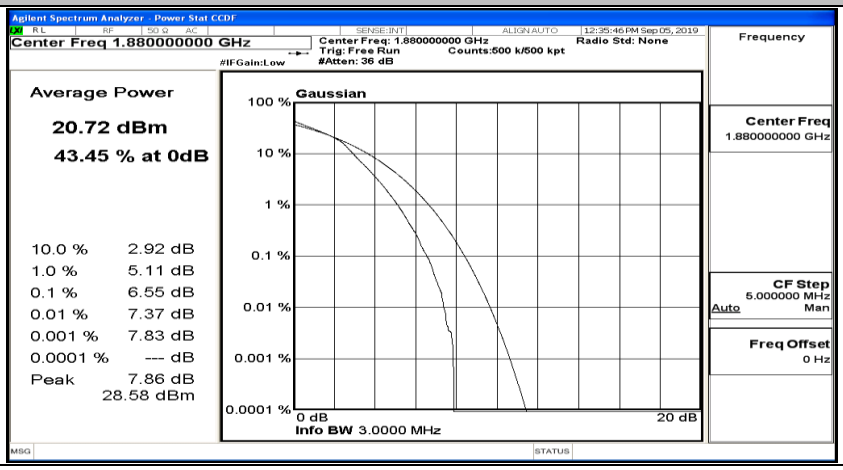
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



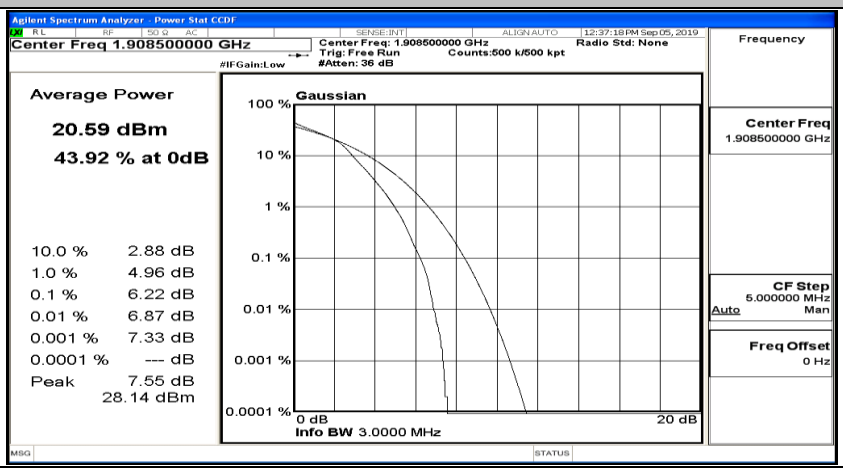
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



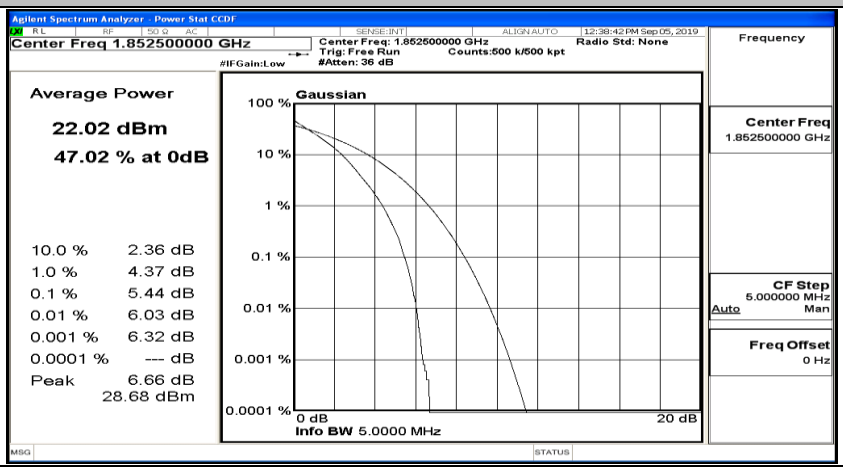
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



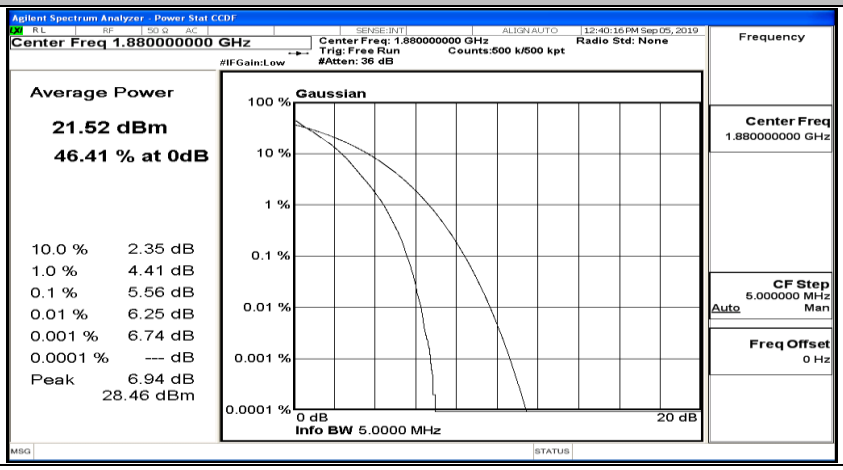
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



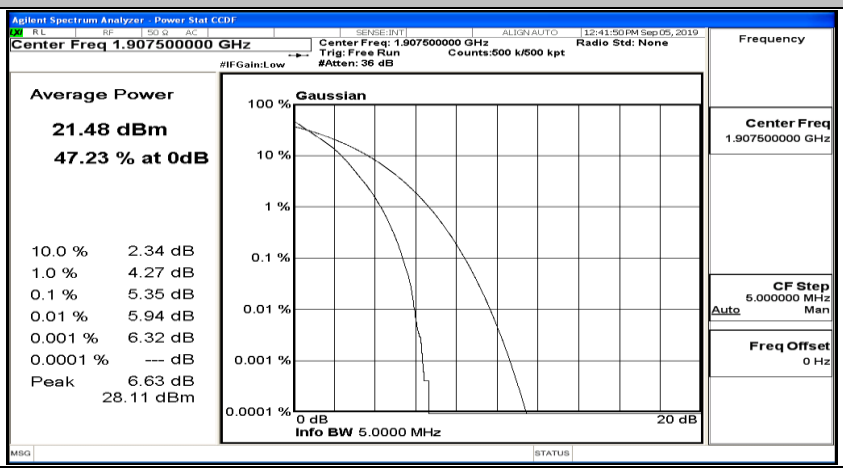
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



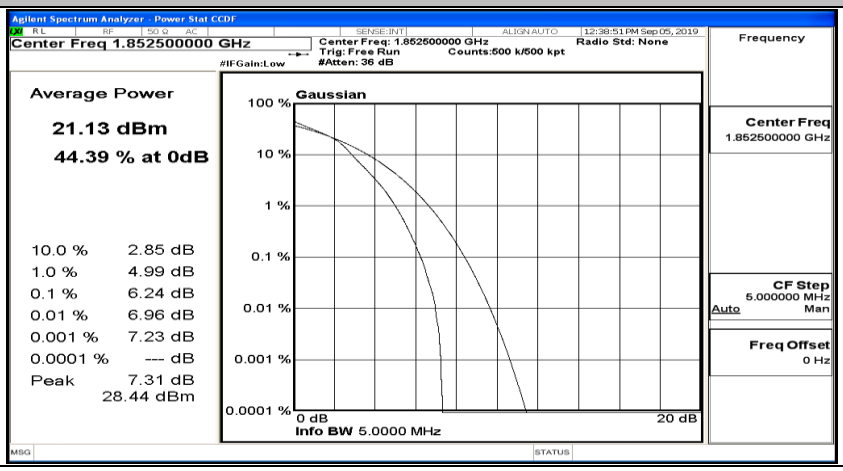
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



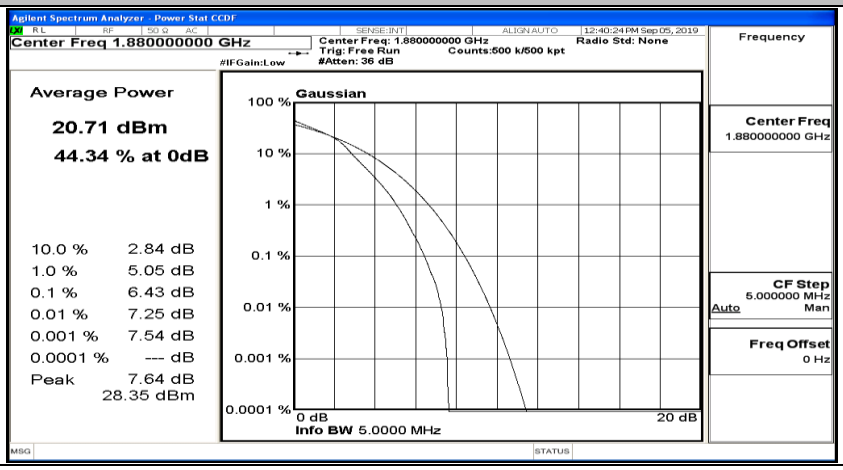
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



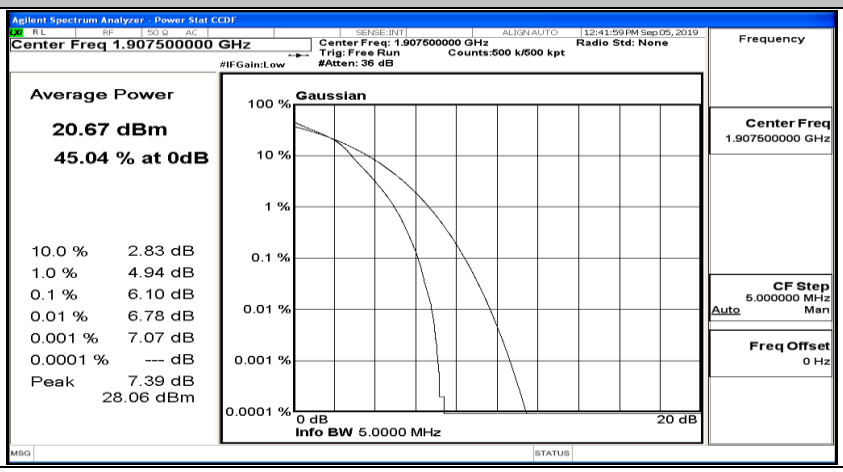
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



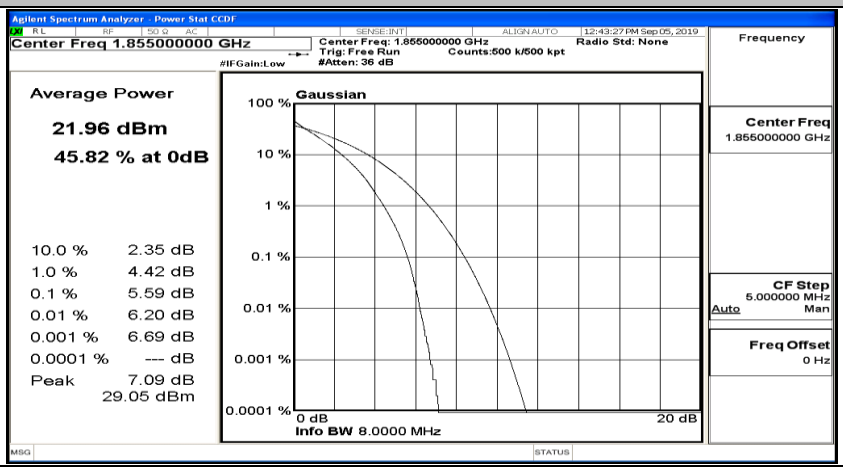
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



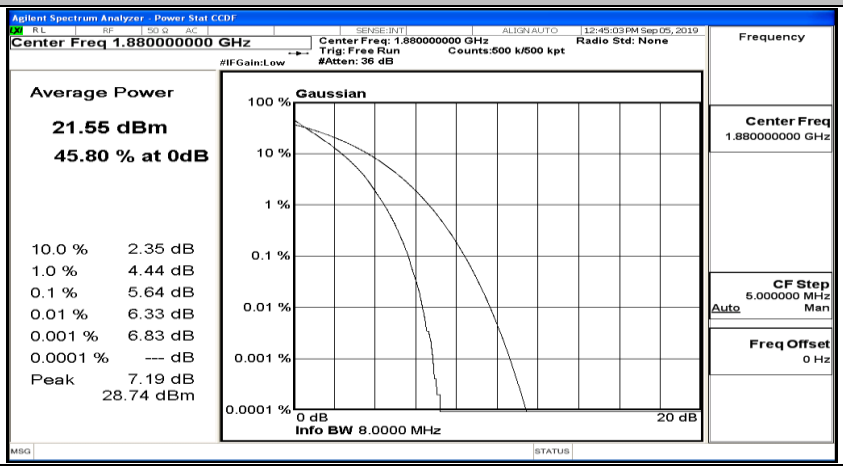
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



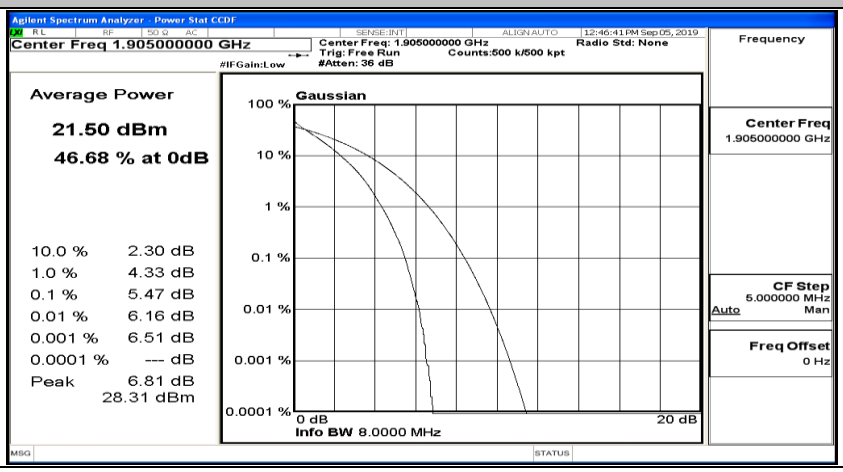
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



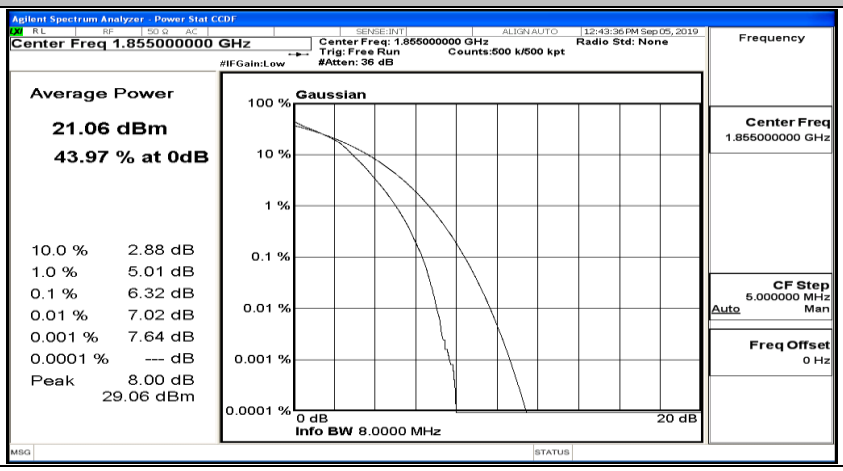
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



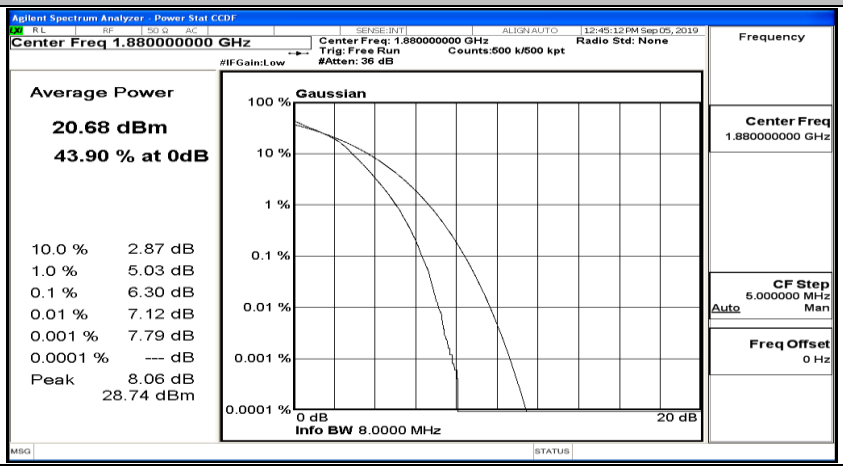
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



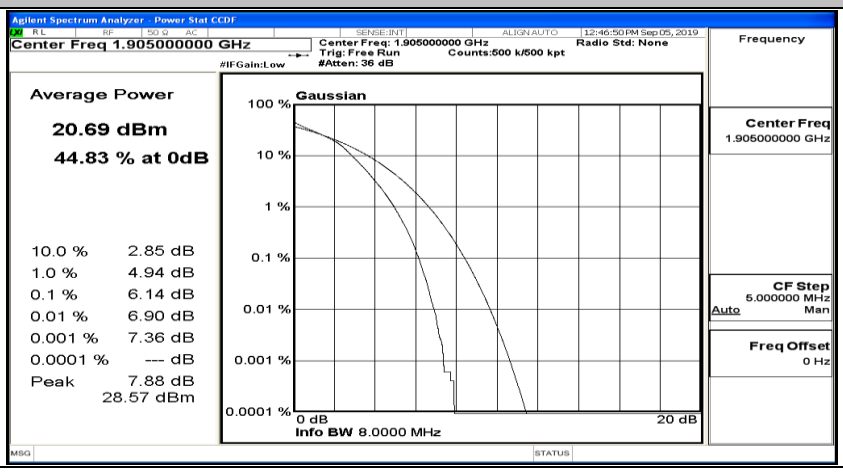
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



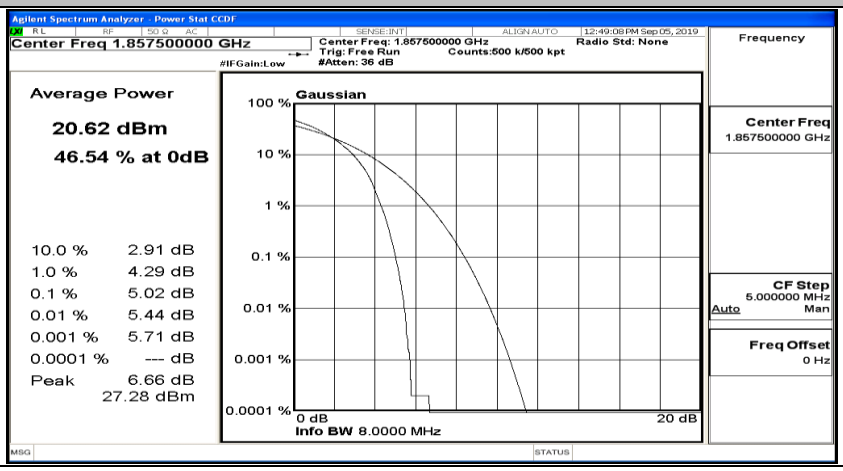
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



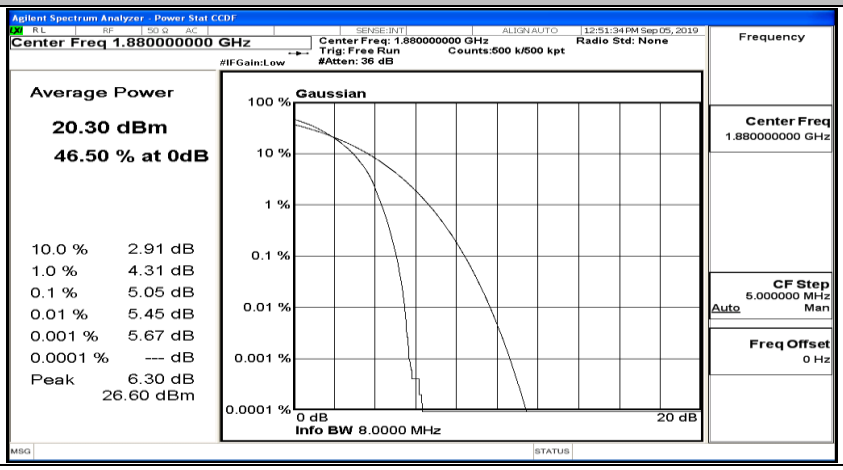
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



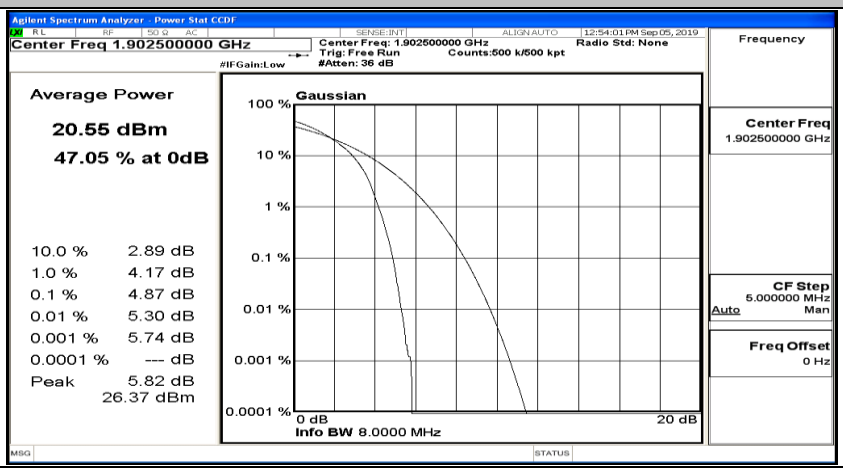
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



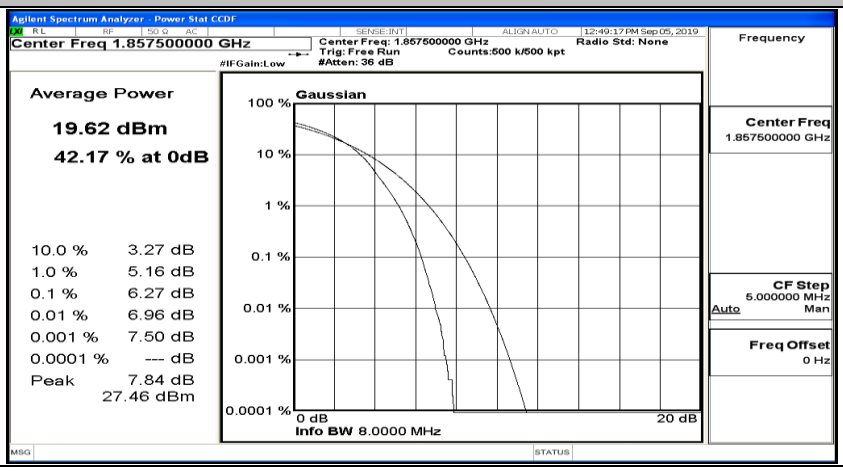
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



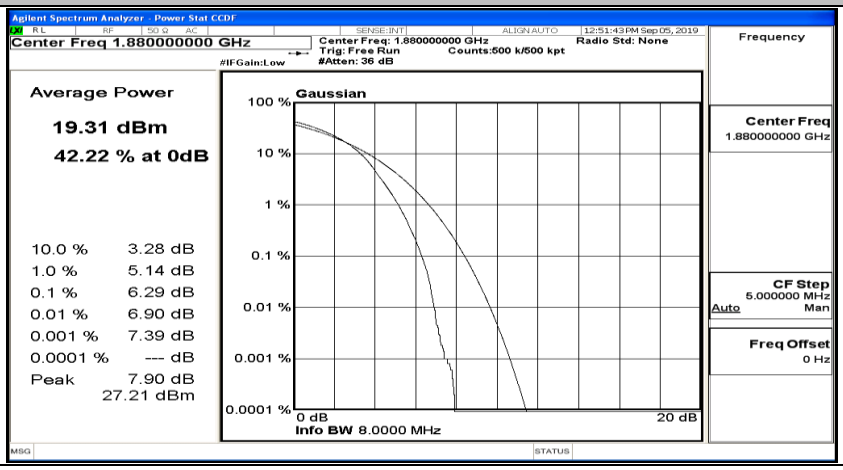
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



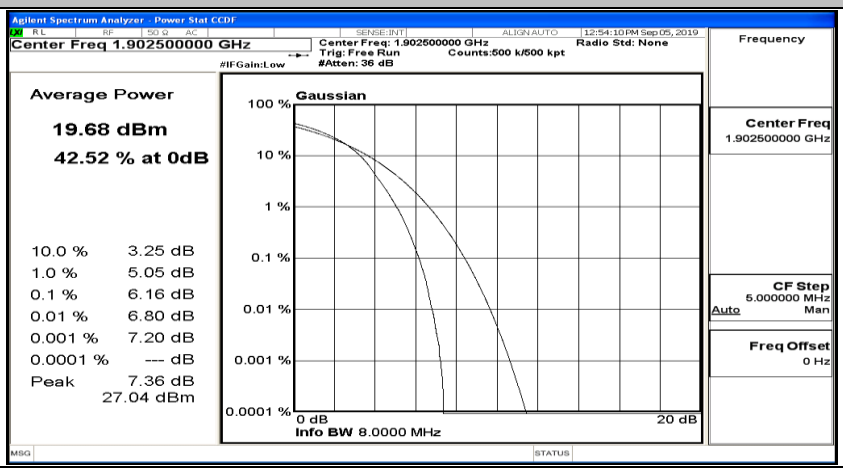
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



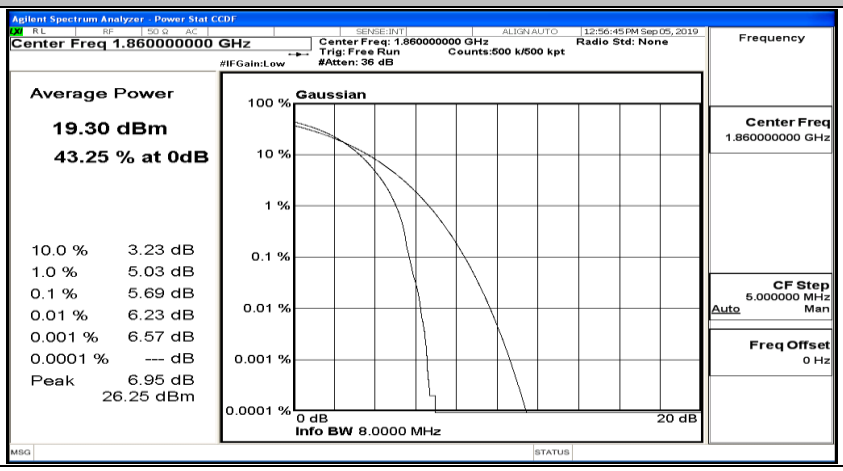
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



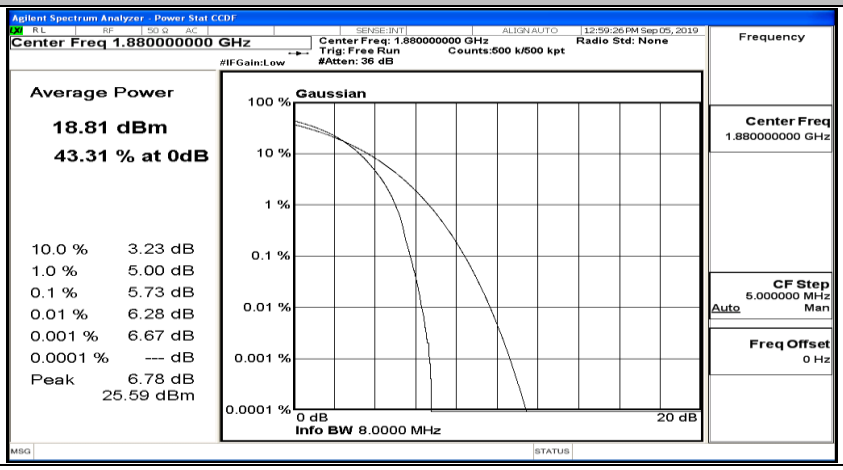
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



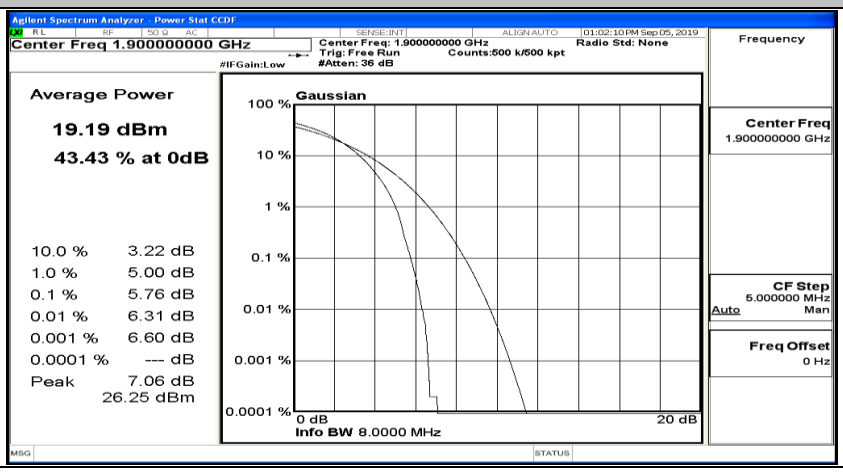
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



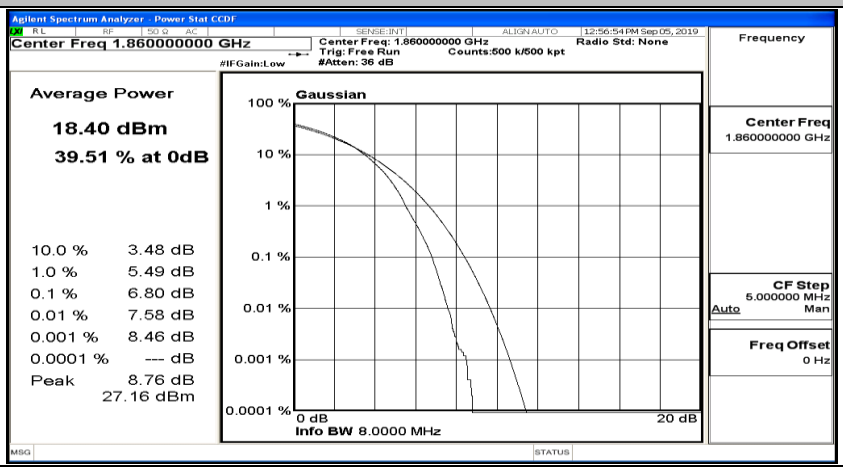
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



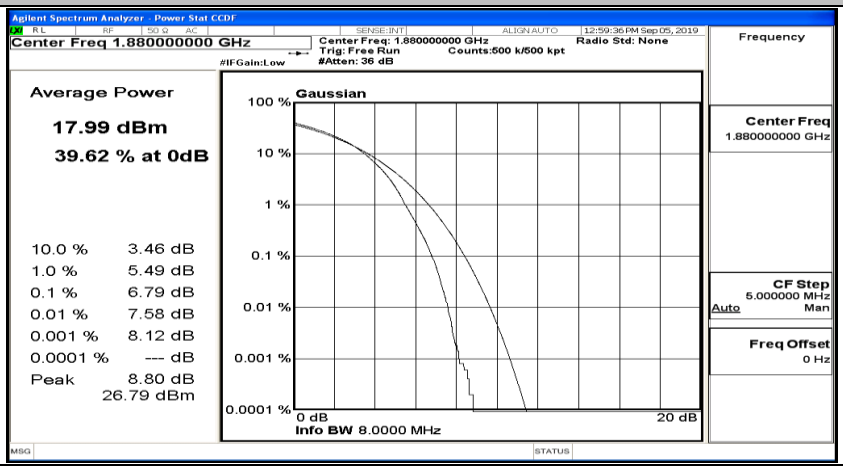
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



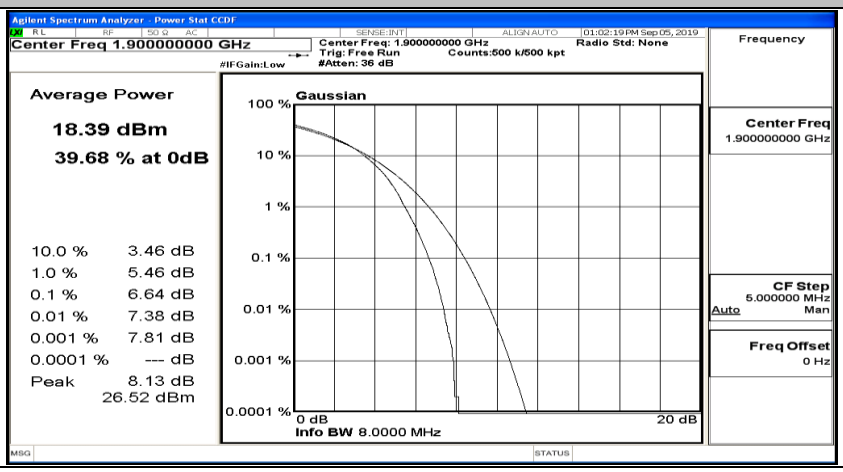
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



A.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	1.0783	1.242	PASS
	MCH	1.0760	1.208	PASS
	HCH	1.0781	1.220	PASS
16QAM	LCH	1.0801	1.226	PASS
	MCH	1.0798	1.215	PASS
	HCH	1.0747	1.289	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6816	2.957	PASS
	MCH	2.6875	2.969	PASS
	HCH	2.6862	2.924	PASS
16QAM	LCH	2.6872	2.973	PASS
	MCH	2.6851	2.986	PASS
	HCH	2.6904	2.993	PASS

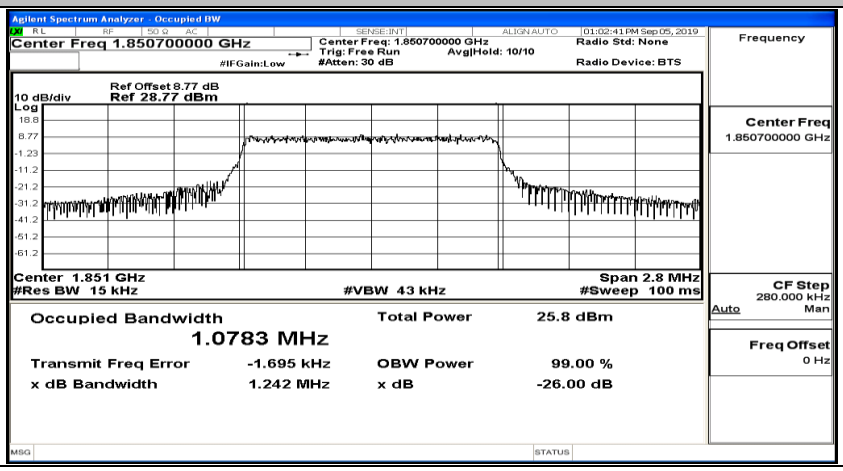
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4711	4.777	PASS
	MCH	4.4738	4.808	PASS
	HCH	4.4646	4.923	PASS
16QAM	LCH	4.4728	4.852	PASS
	MCH	4.4585	4.823	PASS
	HCH	4.4724	4.853	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9474	9.494	PASS
	MCH	8.9342	9.589	PASS
	HCH	8.9245	9.490	PASS
16QAM	LCH	8.9305	9.576	PASS
	MCH	8.9371	9.471	PASS
	HCH	8.9307	9.496	PASS

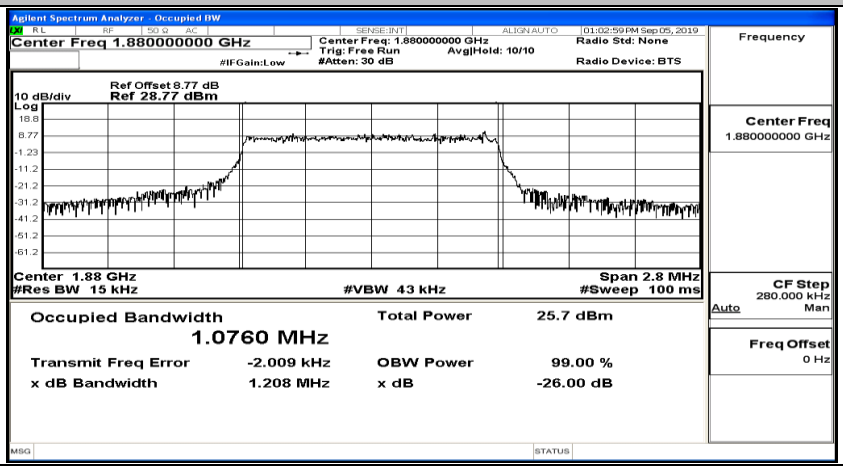
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.402	14.04	PASS
	MCH	13.402	14.24	PASS
	HCH	13.359	14.07	PASS
16QAM	LCH	13.387	14.18	PASS
	MCH	13.407	14.09	PASS
	HCH	13.375	14.16	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.869	18.74	PASS
	MCH	17.894	18.71	PASS
	HCH	17.878	18.77	PASS
16QAM	LCH	17.843	18.68	PASS
	MCH	17.906	18.73	PASS
	HCH	17.851	18.73	PASS

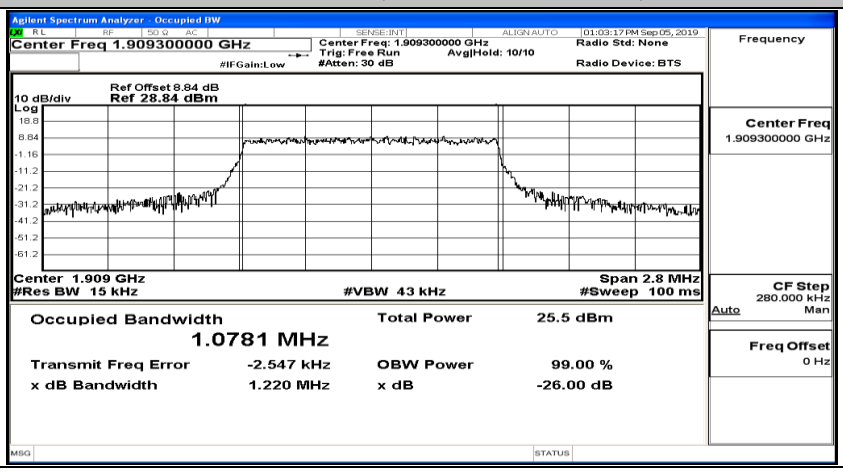
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



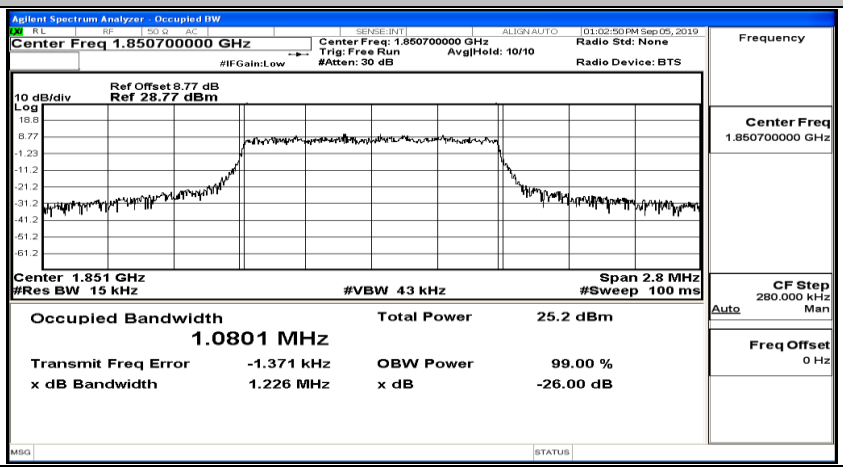
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



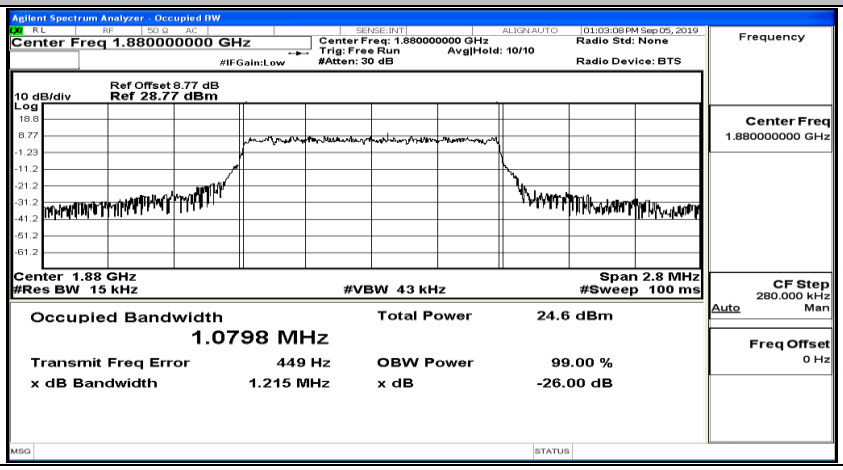
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



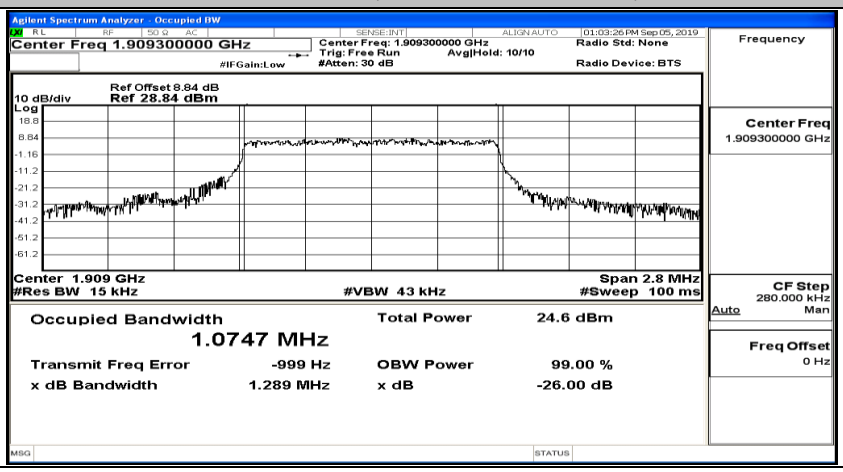
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



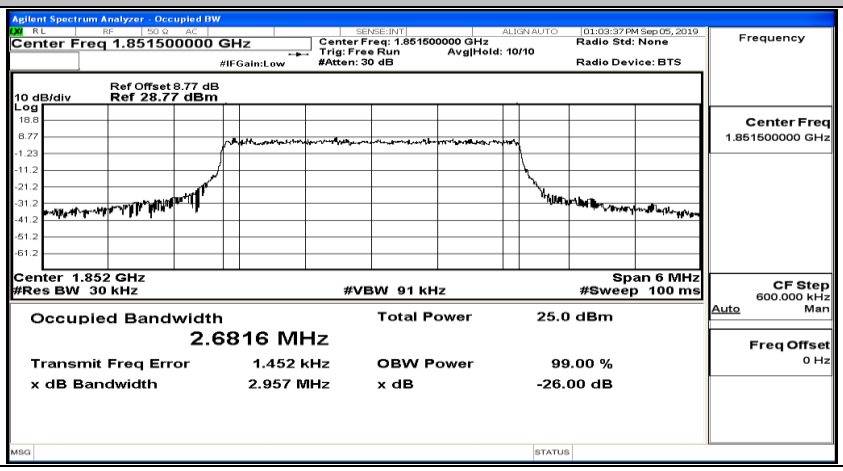
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



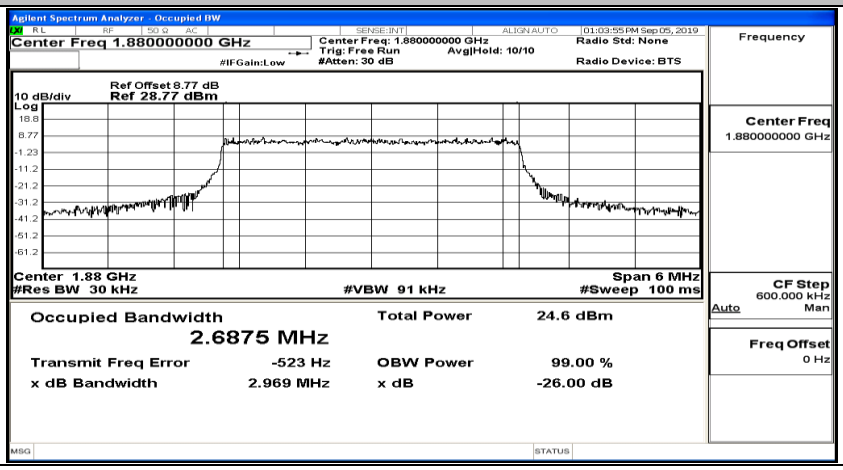
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



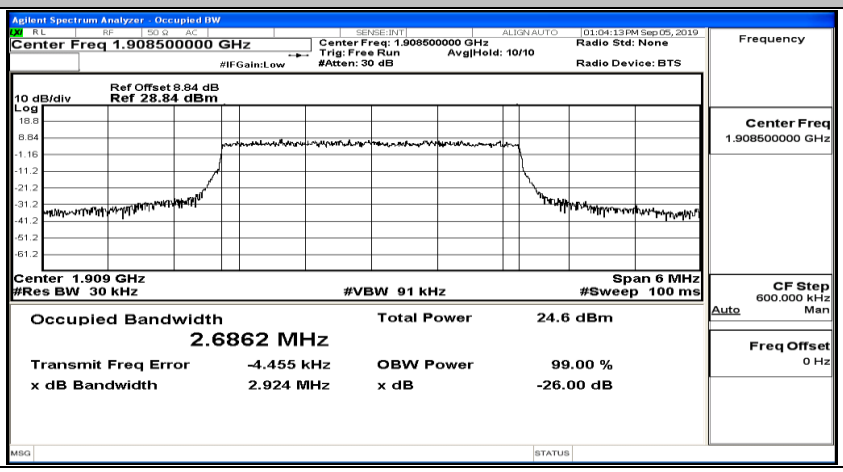
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



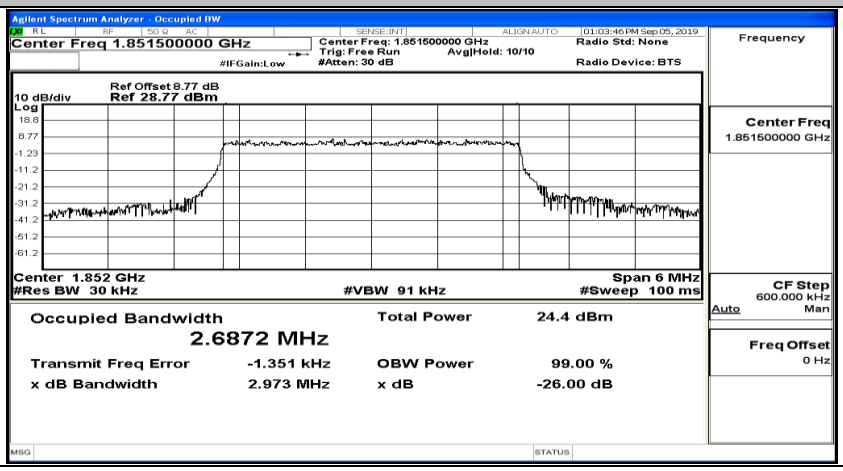
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



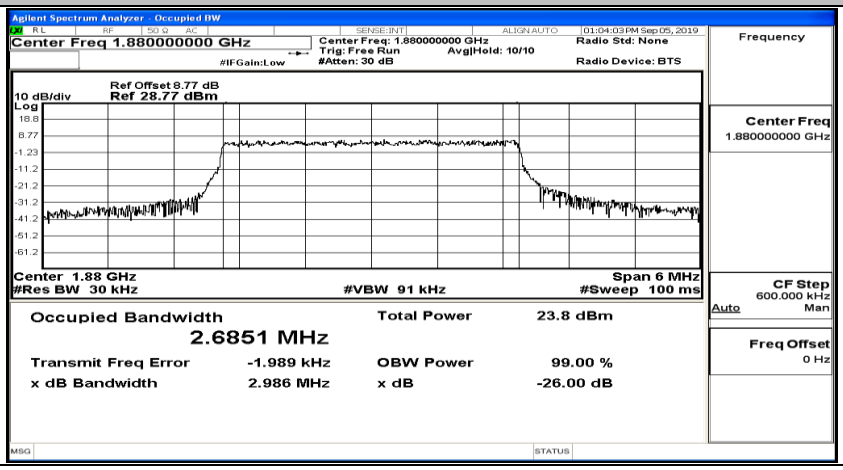
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



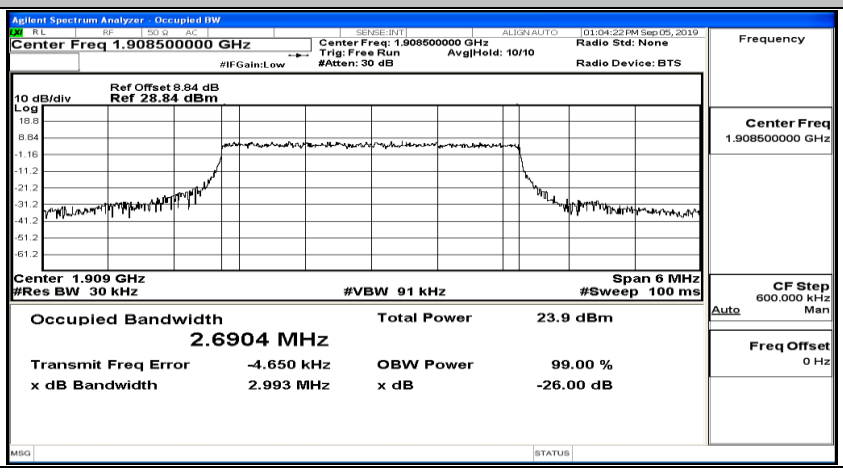
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



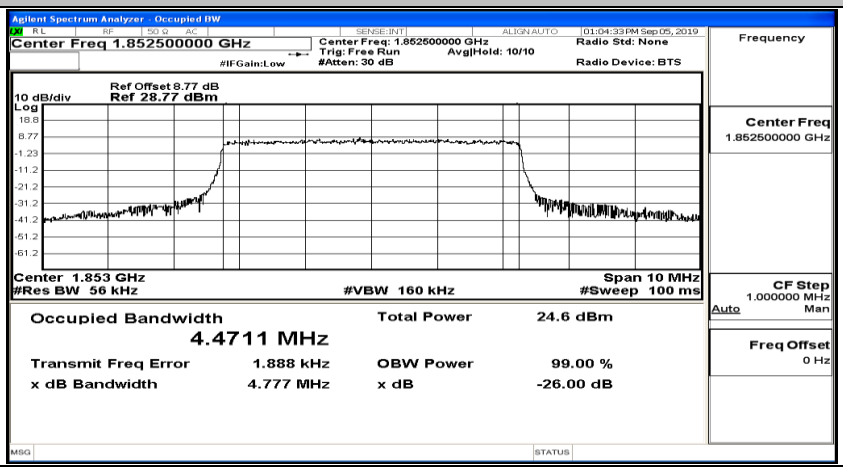
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



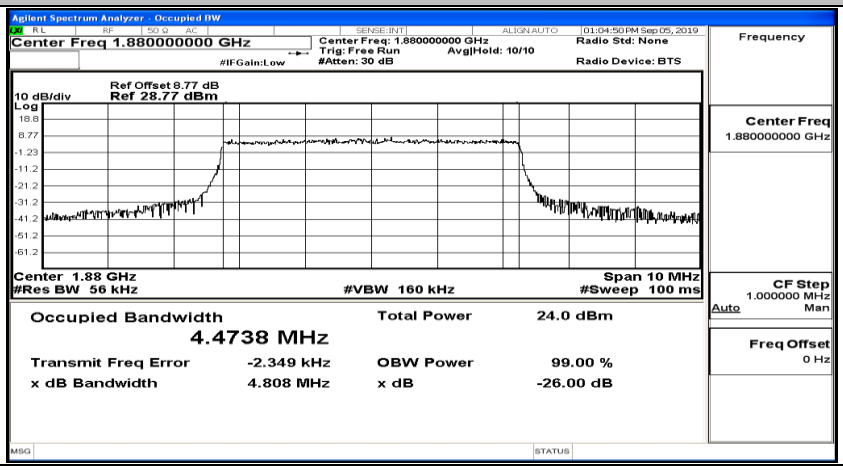
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



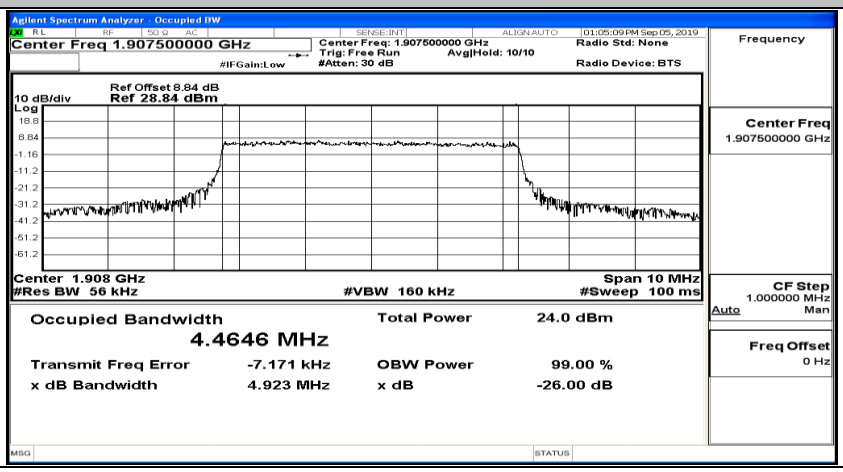
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



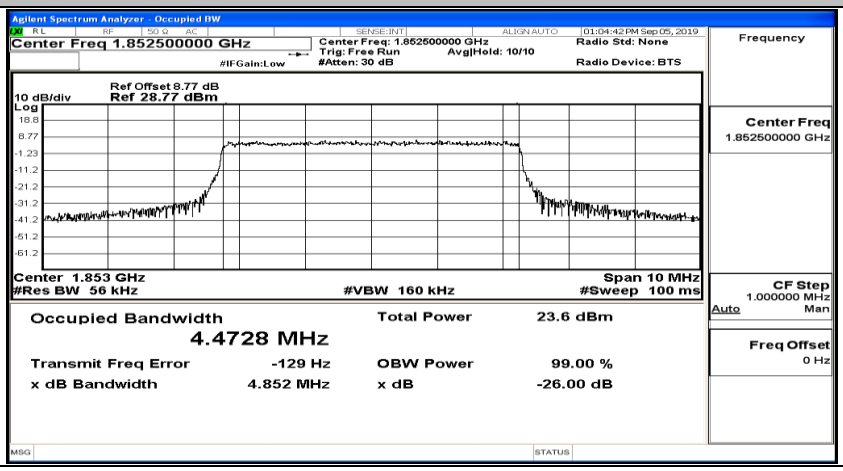
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



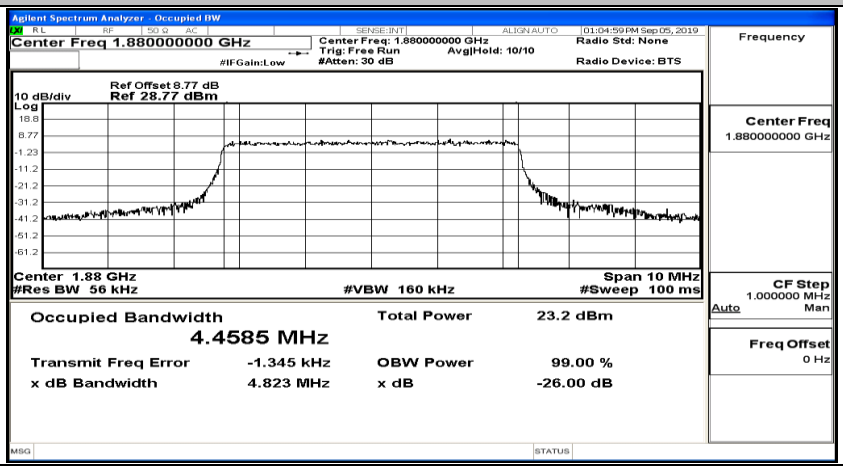
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



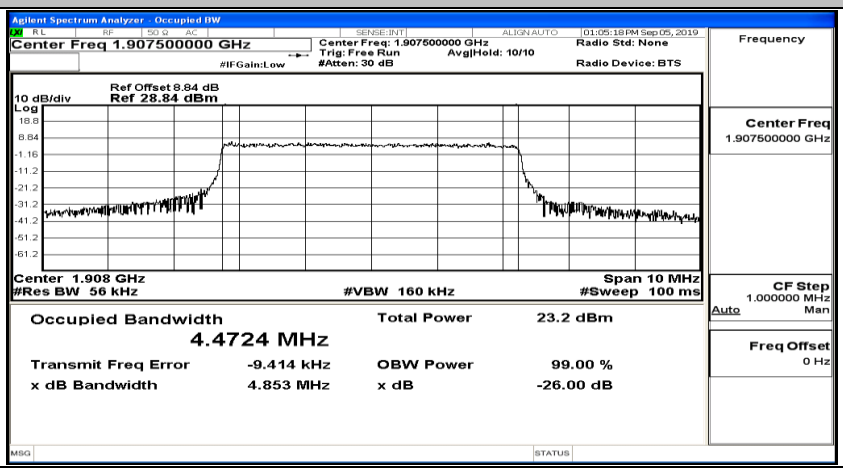
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



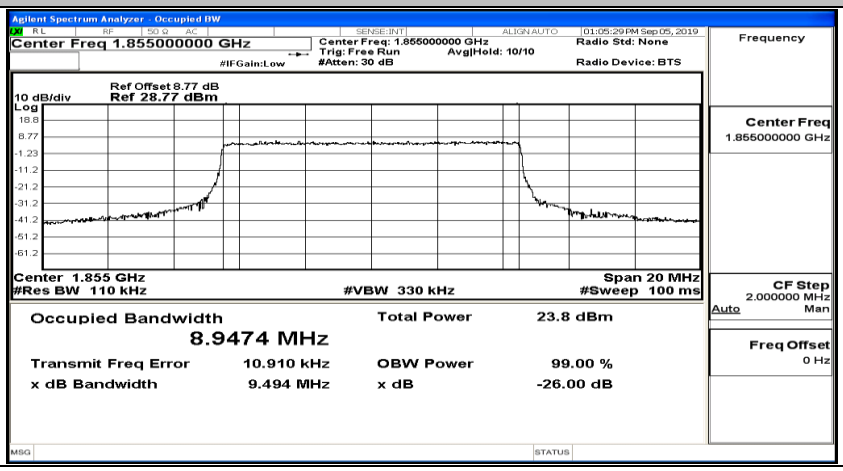
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



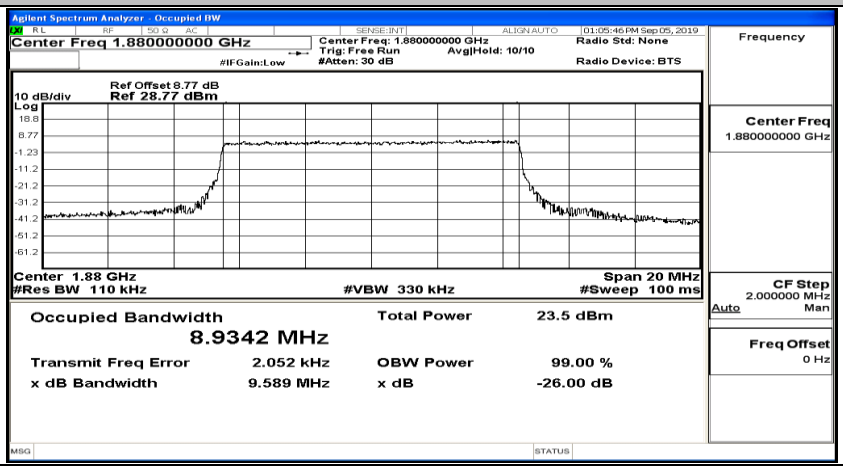
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



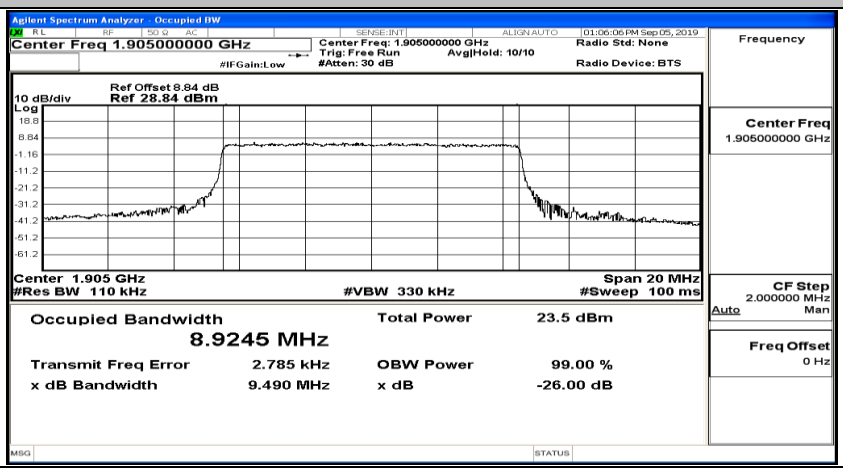
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



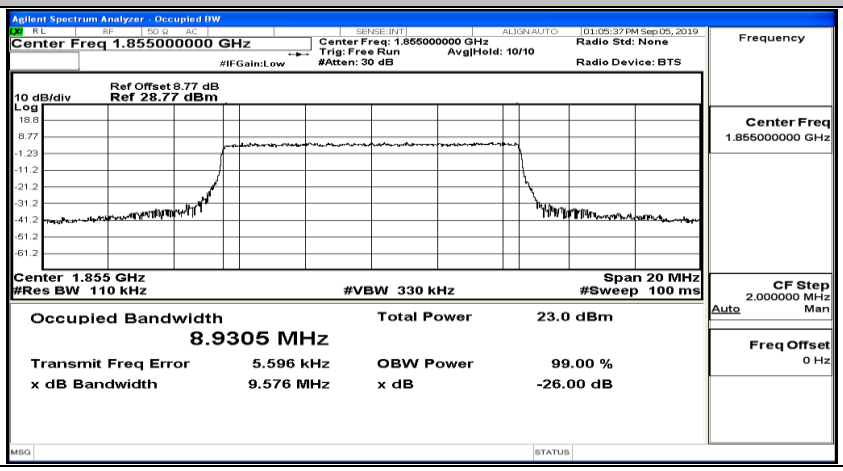
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



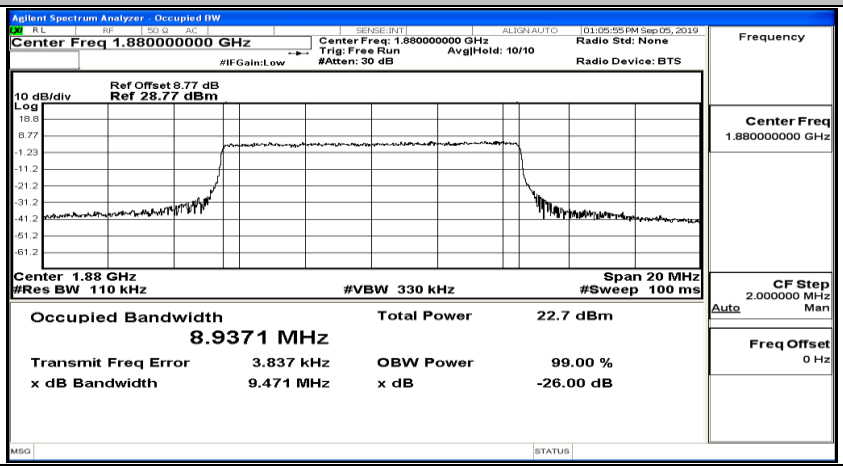
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



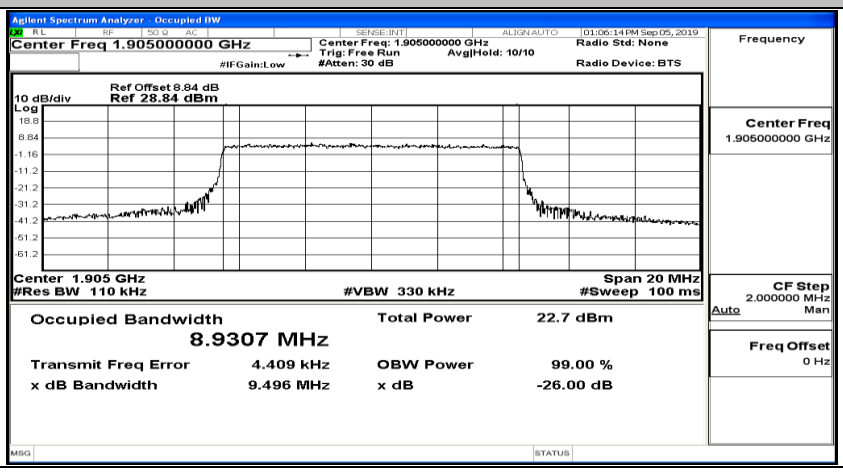
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



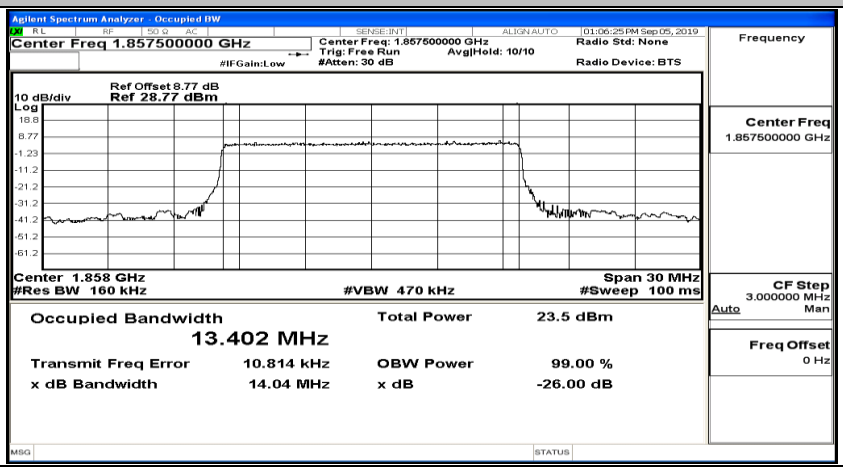
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



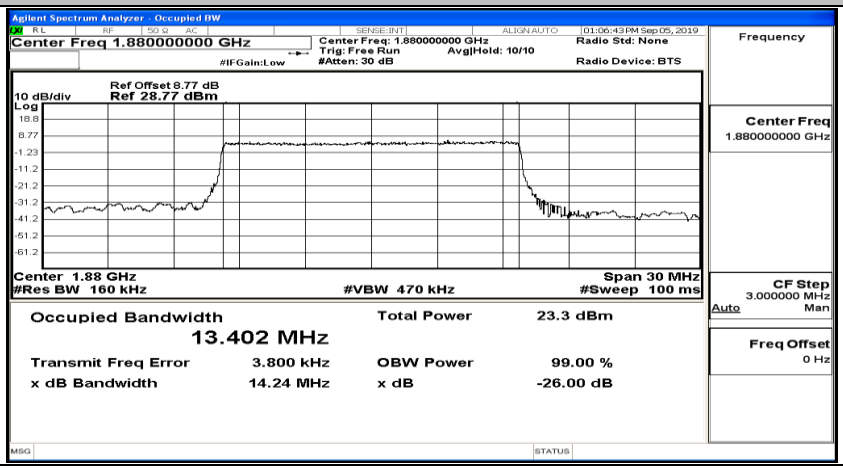
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



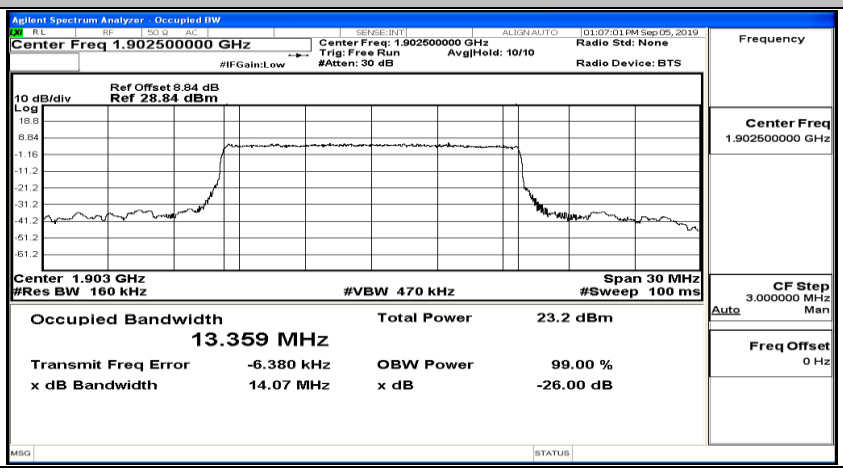
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



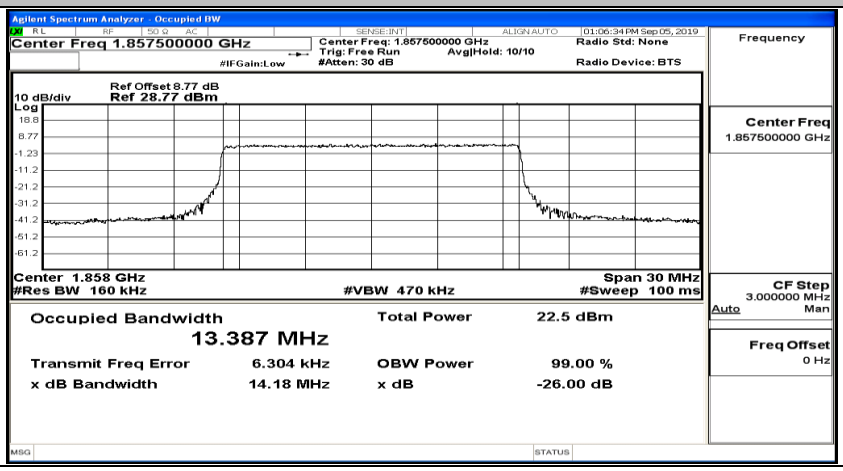
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



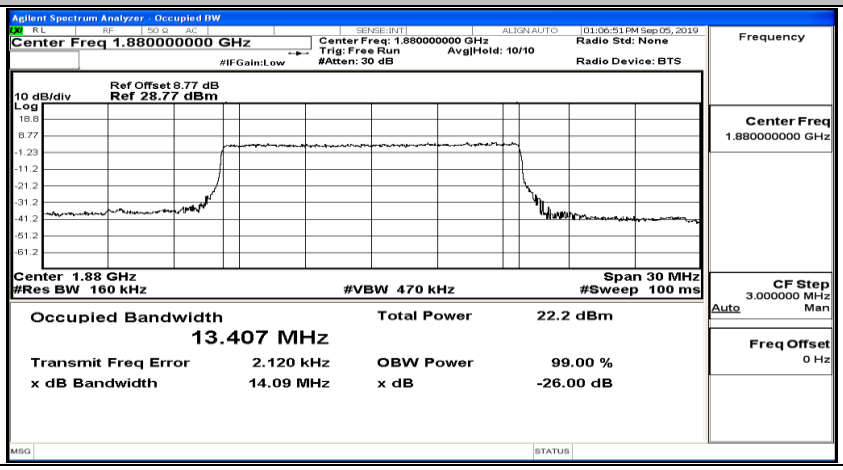
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



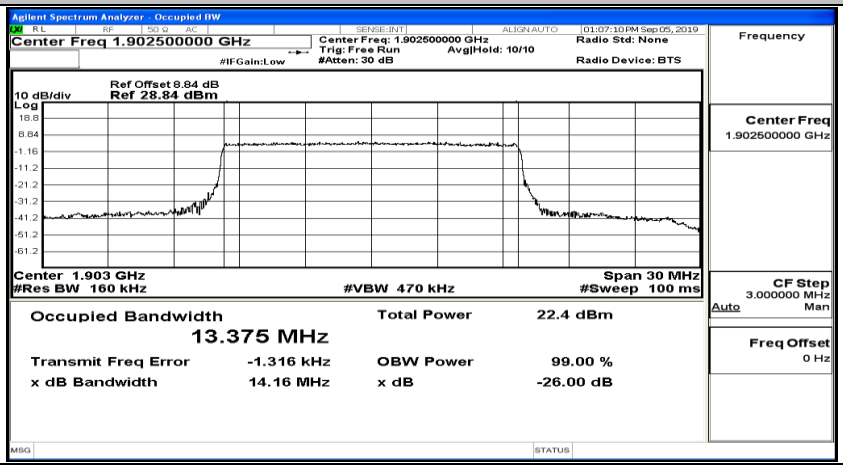
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



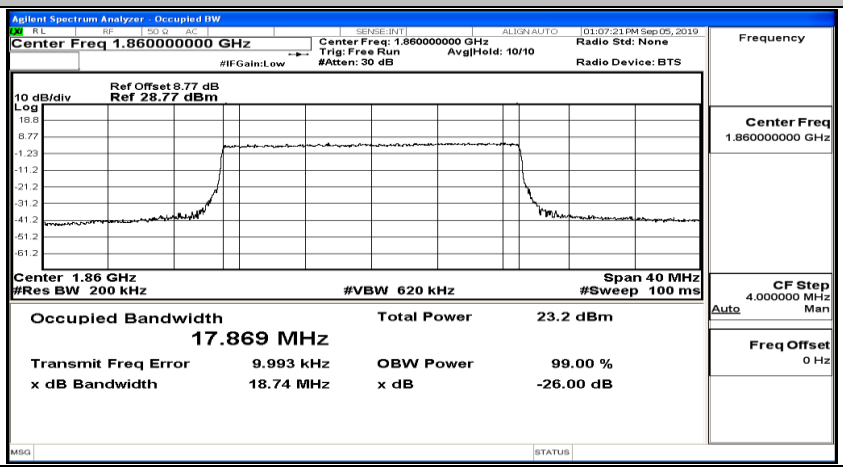
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



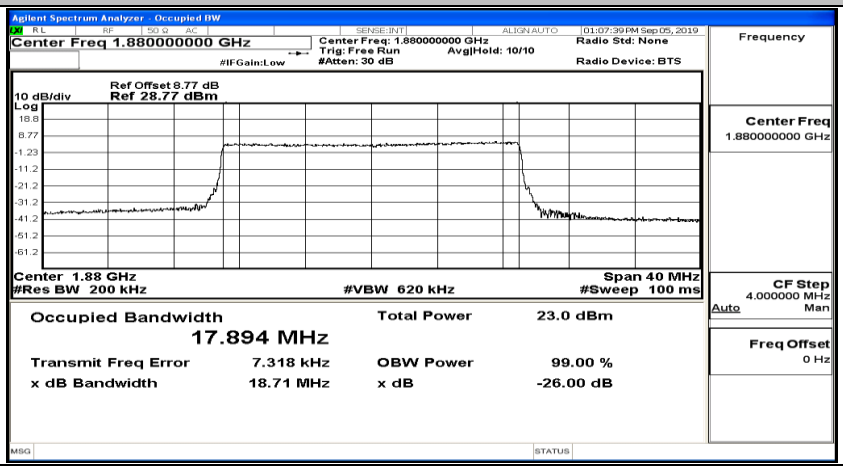
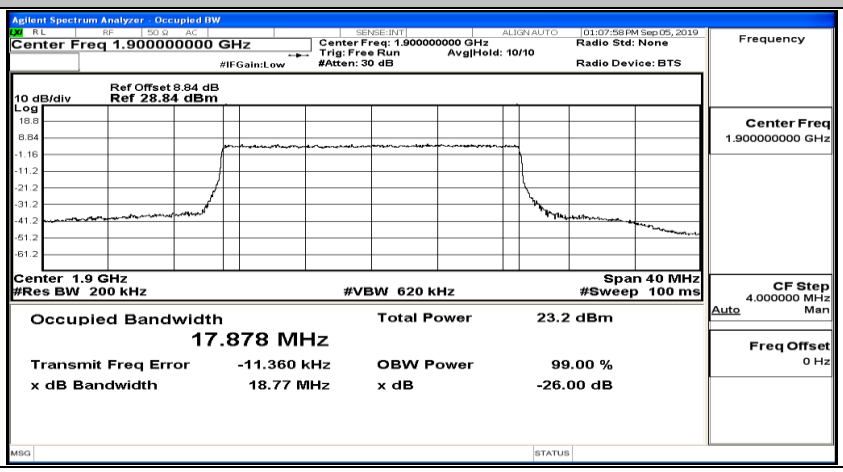
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK