

Appendix E: Test Data for E-UTRA Band 7

Product Name: Smart Phone

Trade Mark: Kalley

Test Model: BLACK PRO

Environmental Conditions

Temperature:	24.6℃
Relative Humidity:	54.6%
ATM Pressure:	100.0 kPa
Test Engineer:	WANG CHUANG
Supervised by:	Jayden Zhuo

E.1 Conducted Output Power

<SIM1>

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.44	20.31	PASS
		1	12	21.89	20.73	PASS
		1	24	21.52	20.35	PASS
		12	0	20.55	19.47	PASS
		12	6	20.68	19.52	PASS
		12	13	20.74	19.59	PASS
		25	0	20.65	19.48	PASS
	MCH	1	0	20.98	19.80	PASS
		1	12	21.38	20.23	PASS
		1	24	21.69	20.56	PASS
		12	0	20.60	19.43	PASS
		12	6	20.68	19.60	PASS
		12	13	20.70	19.57	PASS
		25	0	20.68	19.52	PASS
	HCH	1	0	20.21	19.08	PASS
		1	12	20.44	19.30	PASS
		1	24	20.81	19.72	PASS
		12	0	20.11	18.93	PASS
		12	6	20.25	19.17	PASS
		12	13	20.51	19.42	PASS
		25	0	20.25	19.07	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	21.32	20.22	PASS
		1	24	21.93	20.79	PASS
		1	49	21.48	20.30	PASS
		25	0	20.56	19.41	PASS
		25	12	20.70	19.60	PASS
		25	25	20.81	19.65	PASS
		50	0	20.74	19.57	PASS
	MCH	1	0	20.80	19.71	PASS
		1	24	21.28	20.14	PASS
		1	49	21.98	20.87	PASS
		25	0	20.60	19.45	PASS
		25	12	20.67	19.58	PASS
		25	25	20.87	19.70	PASS
		50	0	20.74	19.60	PASS
	HCH	1	0	21.28	20.15	PASS
		1	24	20.31	19.14	PASS
		1	49	20.91	19.77	PASS
		25	0	20.58	19.46	PASS
		25	12	20.28	19.16	PASS
		25	25	20.40	19.30	PASS
		50	0	20.47	19.37	PASS

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	21.29	20.21	PASS
		1	37	21.86	20.77	PASS
		1	74	21.17	20.09	PASS
		37	0	20.60	19.46	PASS
		37	18	20.73	19.56	PASS
		37	38	20.66	19.57	PASS
		75	0	20.65	19.57	PASS
	MCH	1	0	20.80	19.67	PASS
		1	37	21.34	20.25	PASS
		1	74	21.99	20.86	PASS
		37	0	20.51	19.40	PASS
		37	18	20.72	19.62	PASS
		37	38	20.86	19.71	PASS
		75	0	20.74	19.59	PASS
	HCH	1	0	20.30	19.18	PASS
		1	37	20.05	19.03	PASS
		1	74	20.07	19.10	PASS
		37	0	20.68	19.56	PASS
		37	18	20.48	19.33	PASS
		37	38	20.09	19.11	PASS
		75	0	20.21	19.06	PASS

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	21.26	20.07	PASS
		1	49	21.93	20.76	PASS
		1	99	20.89	19.78	PASS
		50	0	20.48	19.35	PASS
		50	25	20.62	19.47	PASS
		50	50	20.42	19.30	PASS
		100	0	20.50	19.32	PASS
	MCH	1	0	20.89	19.76	PASS
		1	49	21.55	20.37	PASS
		1	99	21.95	20.83	PASS
		50	0	20.48	19.33	PASS
		50	25	20.69	19.58	PASS
		50	50	20.85	19.69	PASS
		100	0	20.69	19.58	PASS
	HCH	1	0	20.64	19.54	PASS
		1	49	20.08	19.04	PASS
		1	99	20.11	19.02	PASS
		50	0	20.80	19.65	PASS
		50	25	20.60	19.44	PASS
		50	50	20.05	19.01	PASS
		100	0	20.73	19.62	PASS

<SIM2>

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	21.38	20.27	PASS
		1	12	21.83	20.69	PASS
		1	24	21.49	20.30	PASS
		12	0	20.52	19.44	PASS
		12	6	20.64	19.48	PASS
		12	13	20.70	19.54	PASS
		25	0	20.62	19.44	PASS
	MCH	1	0	20.95	19.76	PASS
		1	12	21.33	20.19	PASS
		1	24	21.63	20.51	PASS
		12	0	20.55	19.37	PASS
		12	6	20.62	19.54	PASS
		12	13	20.65	19.54	PASS
		25	0	20.65	19.47	PASS
	HCH	1	0	20.16	19.05	PASS
		1	12	20.38	19.25	PASS
		1	24	20.76	19.68	PASS
		12	0	20.21	19.04	PASS
		12	6	20.22	19.11	PASS
		12	13	20.47	19.38	PASS
		25	0	20.20	19.01	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	21.26	20.17	PASS
		1	24	21.90	20.76	PASS
		1	49	21.44	20.27	PASS
		25	0	20.51	19.38	PASS
		25	12	20.67	19.55	PASS
		25	25	20.75	19.62	PASS
		50	0	20.69	19.52	PASS
	MCH	1	0	20.75	19.67	PASS
		1	24	21.22	20.10	PASS
		1	49	21.95	20.81	PASS
		25	0	20.55	19.42	PASS
		25	12	20.64	19.53	PASS
		25	25	20.82	19.66	PASS
		50	0	20.69	19.57	PASS
	HCH	1	0	21.24	20.12	PASS
		1	24	20.28	19.10	PASS
		1	49	20.87	19.72	PASS
		25	0	20.55	19.41	PASS
		25	12	20.24	19.10	PASS
		25	25	20.36	19.25	PASS
		50	0	20.41	19.33	PASS

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	21.24	20.16	PASS
		1	37	21.83	20.71	PASS
		1	74	21.13	20.06	PASS
		37	0	20.56	19.41	PASS
		37	18	20.69	19.52	PASS
		37	38	20.63	19.51	PASS
		75	0	20.61	19.53	PASS
	MCH	1	0	20.75	19.63	PASS
		1	37	21.31	20.21	PASS
		1	74	21.94	20.80	PASS
		37	0	20.47	19.34	PASS
		37	18	20.67	19.56	PASS
		37	38	20.81	19.66	PASS
		75	0	20.70	19.54	PASS
	HCH	1	0	20.26	19.13	PASS
		1	37	20.05	19.04	PASS
		1	74	20.03	19.05	PASS
		37	0	20.64	19.51	PASS
		37	18	20.42	19.29	PASS
		37	38	20.03	19.06	PASS
		75	0	20.17	19.01	PASS

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	21.22	20.04	PASS
		1	49	21.88	20.73	PASS
		1	99	20.86	19.73	PASS
		50	0	20.44	19.29	PASS
		50	25	20.58	19.42	PASS
		50	50	20.36	19.24	PASS
		100	0	20.44	19.27	PASS
	MCH	1	0	20.84	19.72	PASS
		1	49	21.50	20.34	PASS
		1	99	21.91	20.79	PASS
		50	0	20.42	19.28	PASS
		50	25	20.63	19.52	PASS
		50	50	20.80	19.63	PASS
		100	0	20.63	19.55	PASS
	HCH	1	0	20.59	19.49	PASS
		1	49	20.07	19.04	PASS
		1	99	20.13	19.02	PASS
		50	0	20.77	19.59	PASS
		50	25	20.55	19.41	PASS
		50	50	20.07	19.03	PASS
		100	0	20.67	19.59	PASS

E.2 Peak-to-Average Ratio

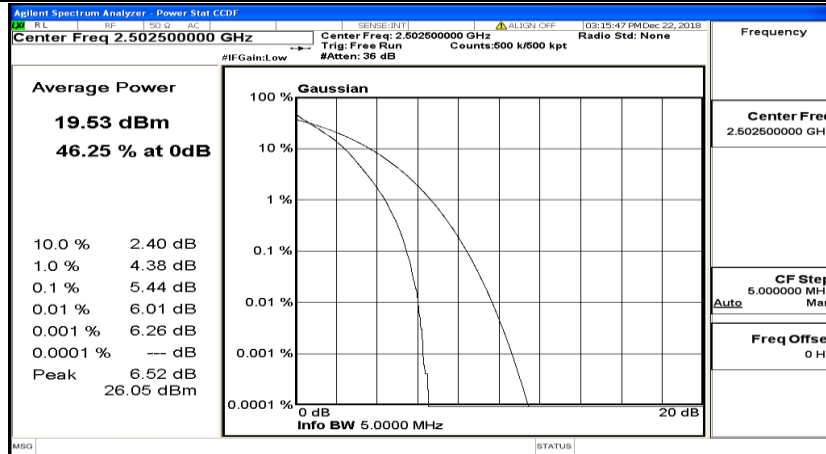
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.44	<13	PASS
	MCH	5.62	<13	PASS
	HCH	5.56	<13	PASS
16QAM	LCH	6.24	<13	PASS
	MCH	6.36	<13	PASS
	HCH	6.02	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.52	<13	PASS
	MCH	5.67	<13	PASS
	HCH	5.67	<13	PASS
16QAM	LCH	6.23	<13	PASS
	MCH	6.33	<13	PASS
	HCH	6.17	<13	PASS

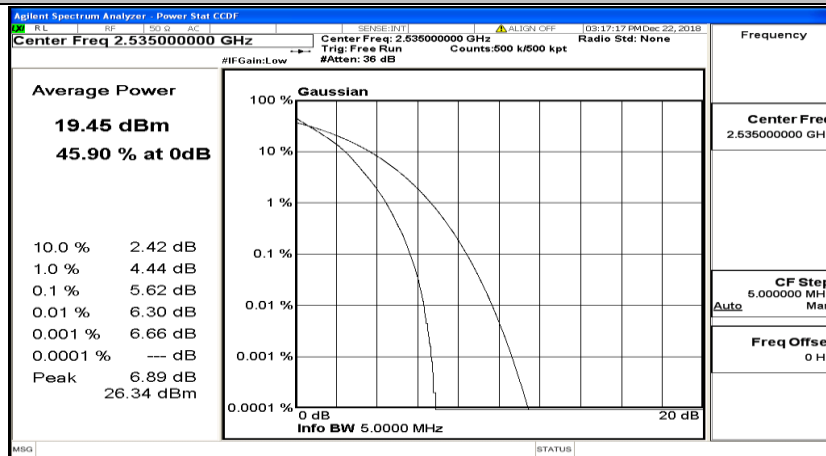
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.02	<13	PASS
	MCH	5.06	<13	PASS
	HCH	5.05	<13	PASS
16QAM	LCH	6.23	<13	PASS
	MCH	6.29	<13	PASS
	HCH	6.19	<13	PASS

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	5.71	<13	PASS
	HCH	5.76	<13	PASS
16QAM	LCH	6.79	<13	PASS
	MCH	6.76	<13	PASS
	HCH	6.67	<13	PASS

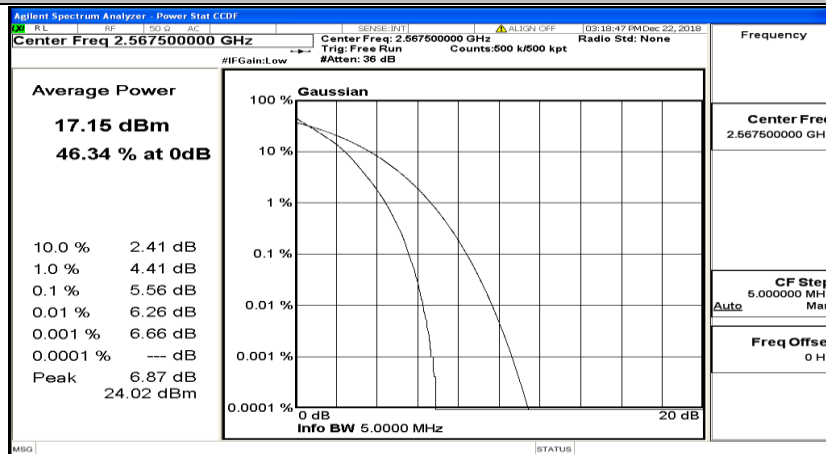
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



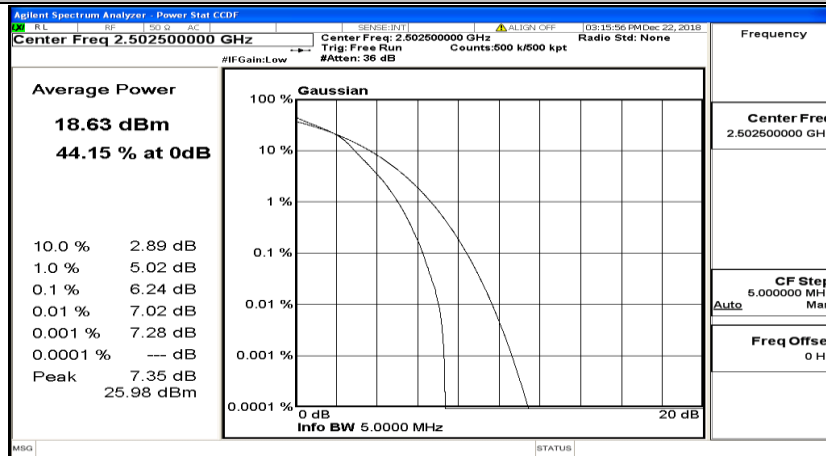
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



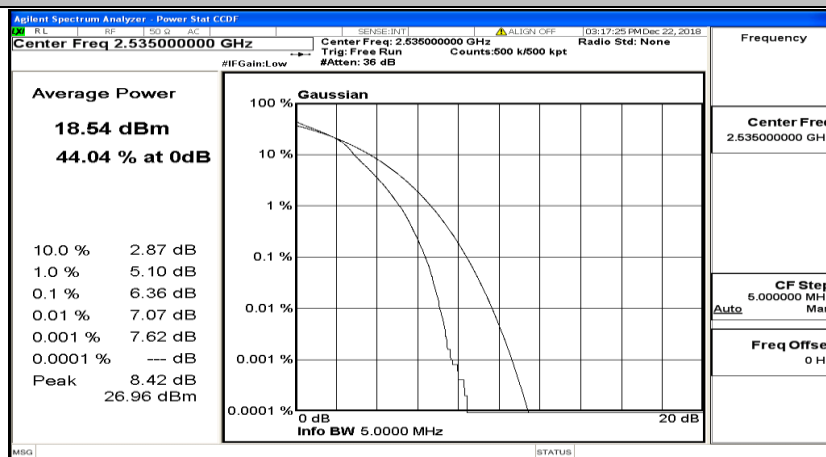
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



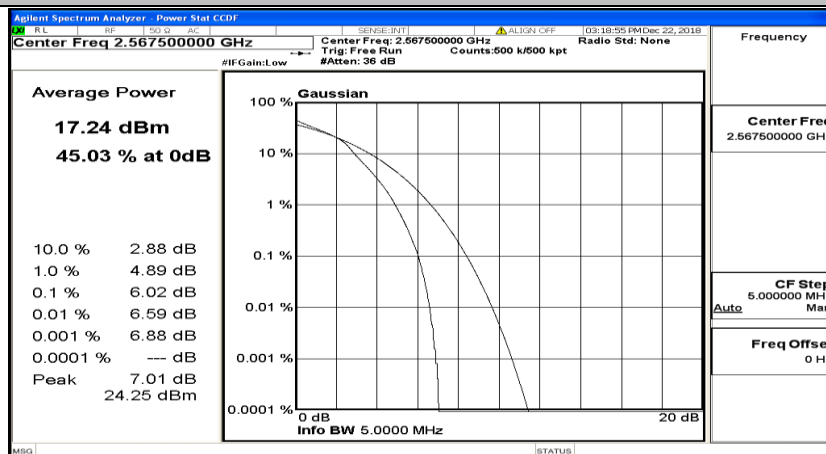
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



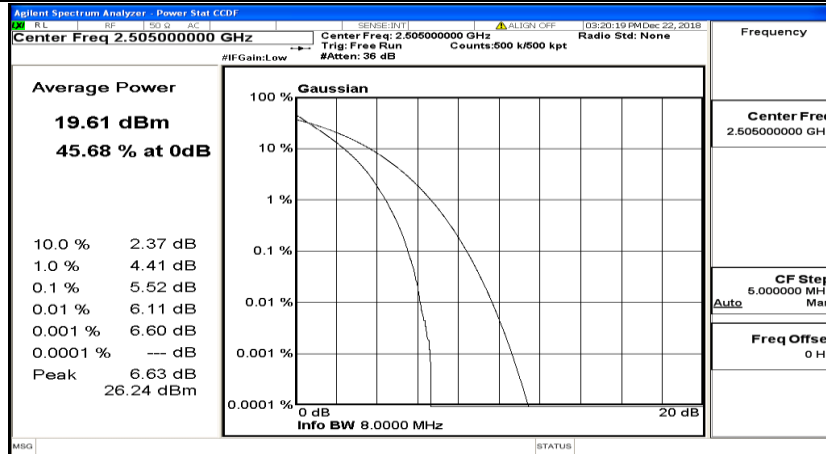
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



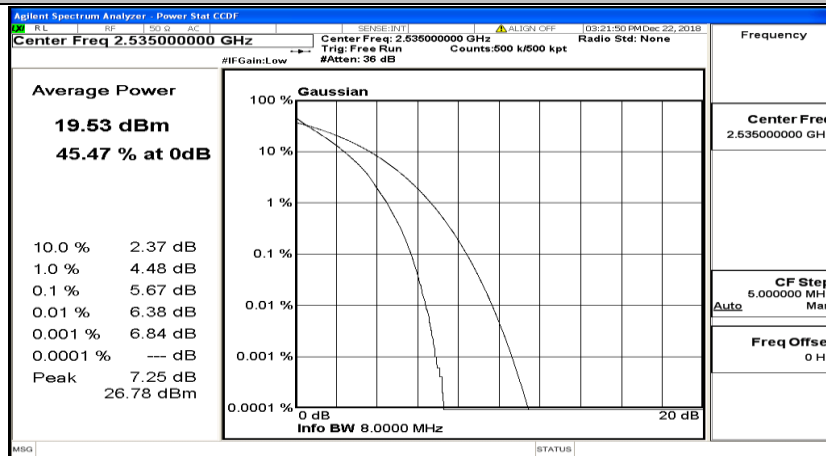
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



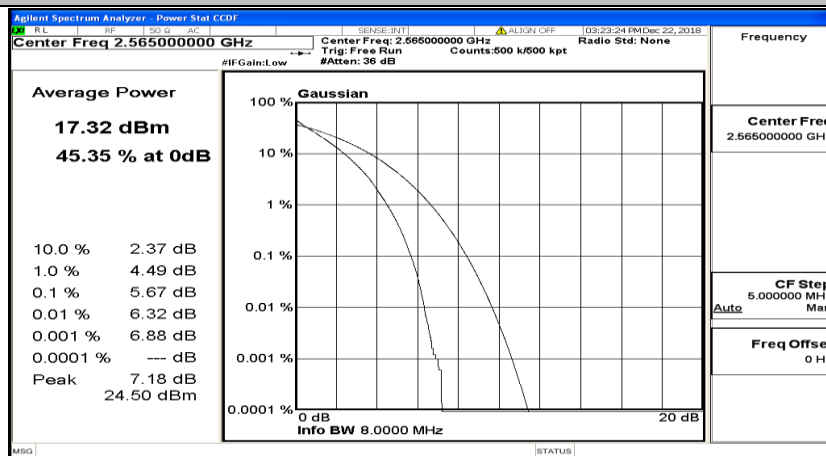
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _LCH_QPSK



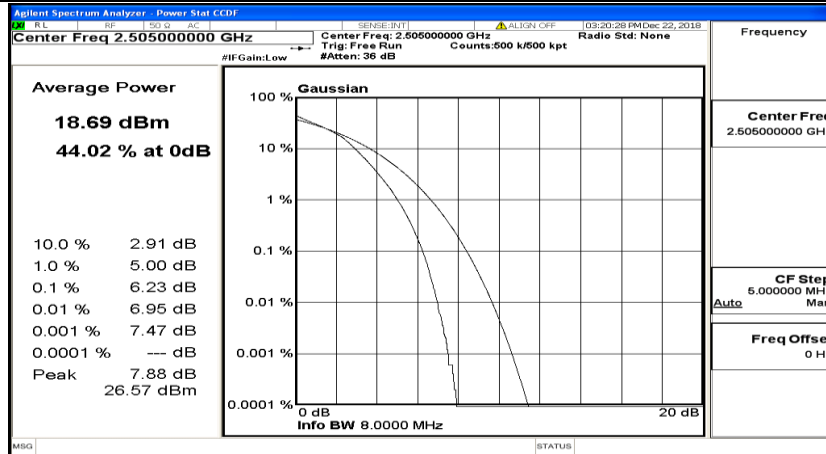
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _MCH_QPSK



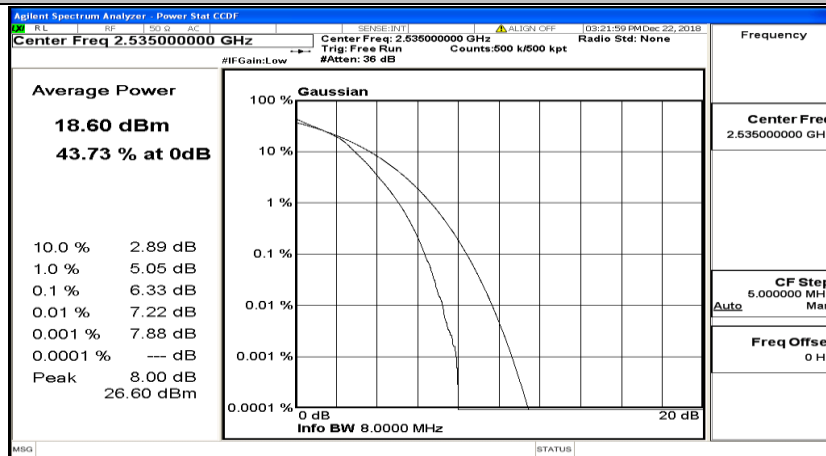
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _HCH_QPSK



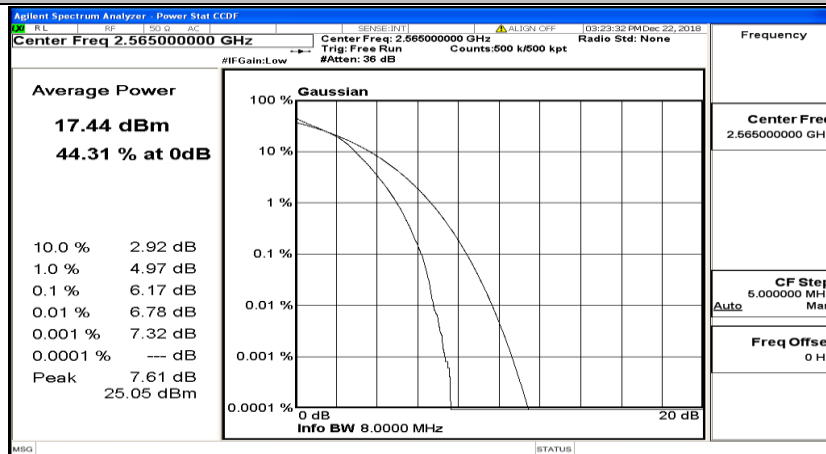
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



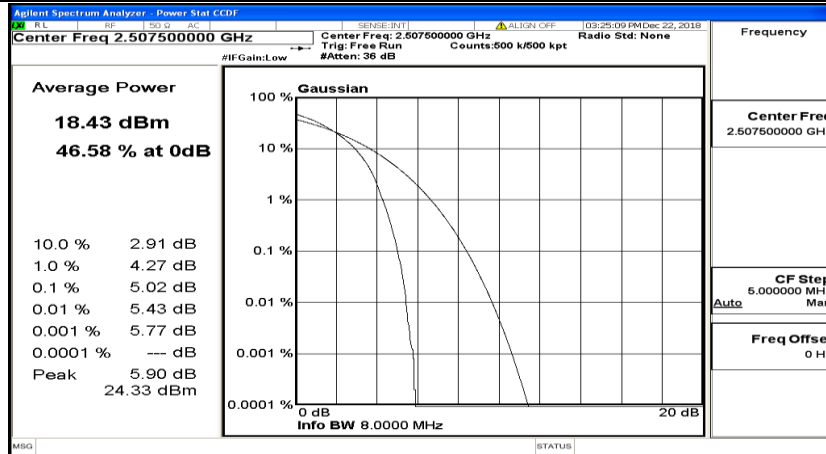
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



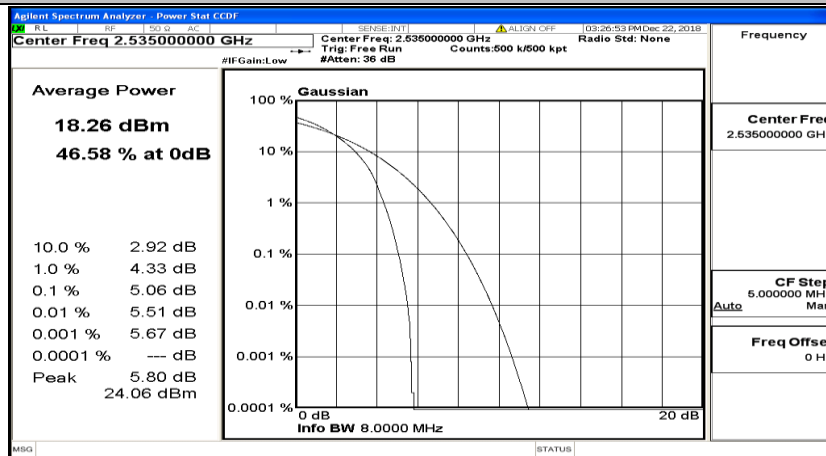
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



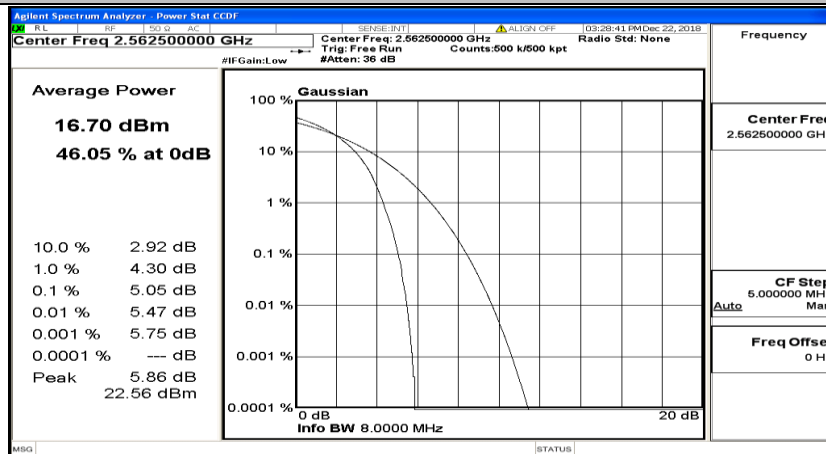
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



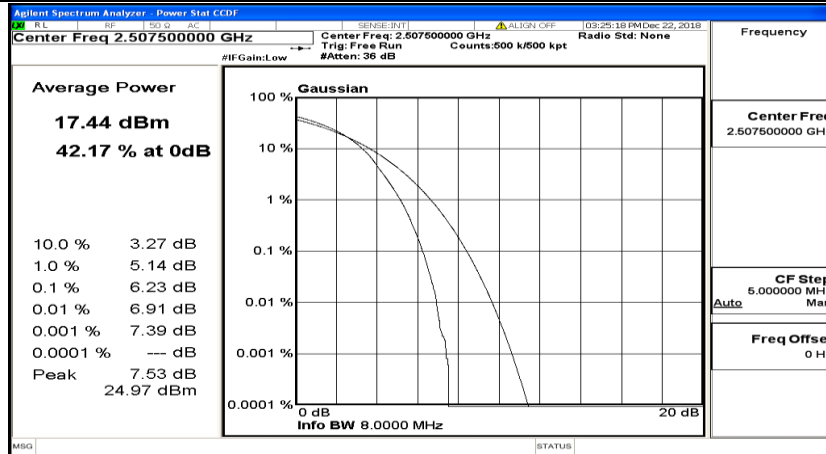
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



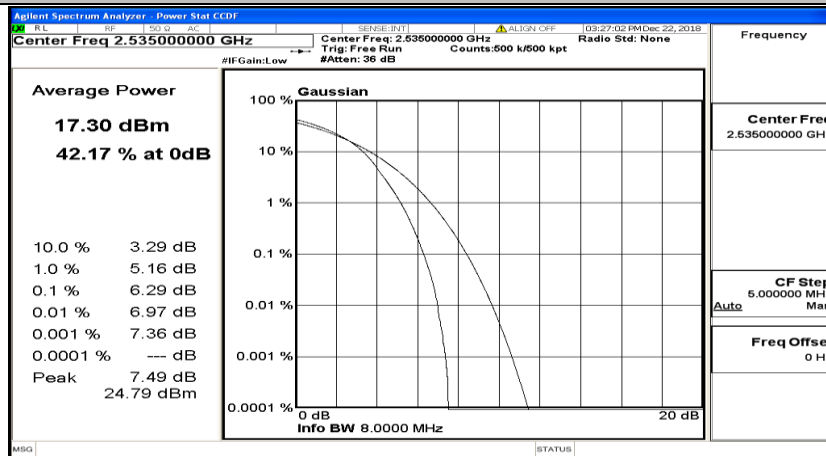
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



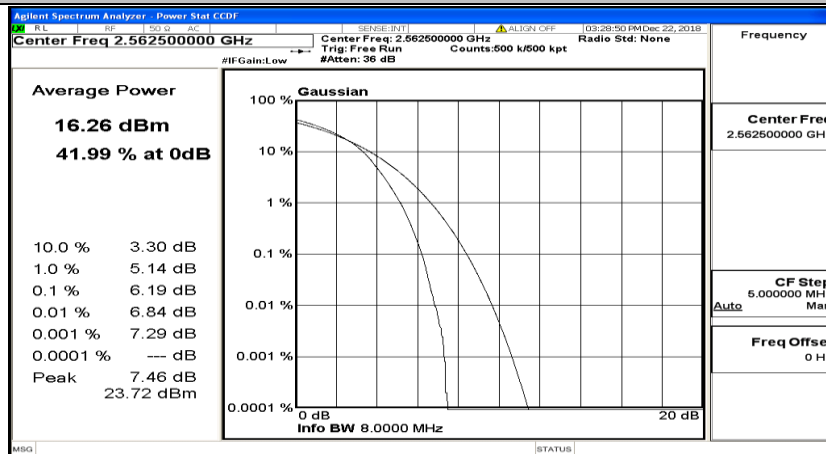
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



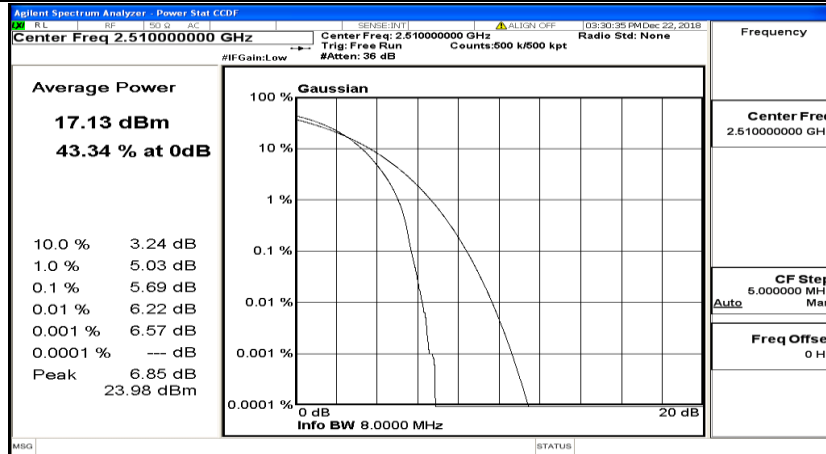
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



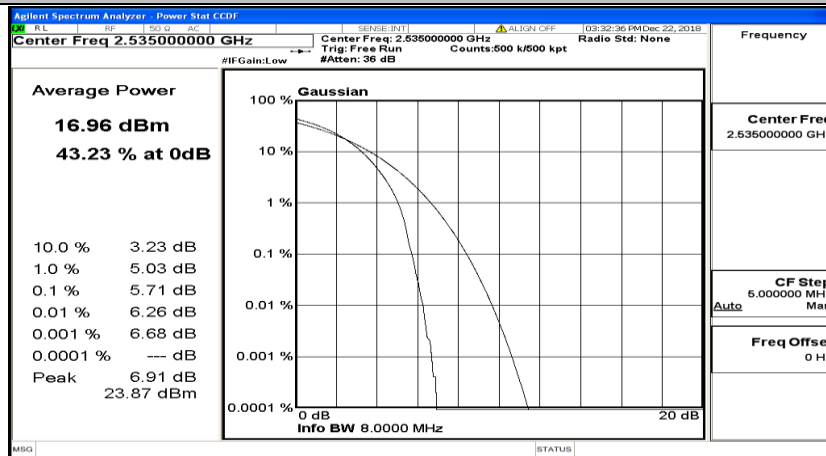
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



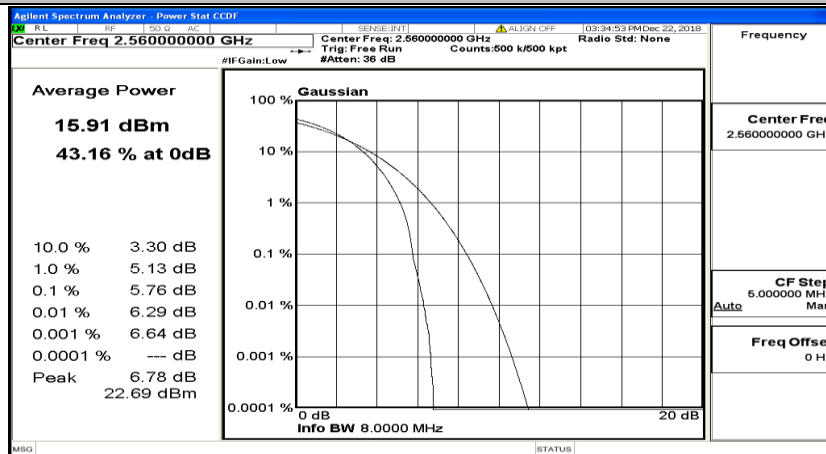
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



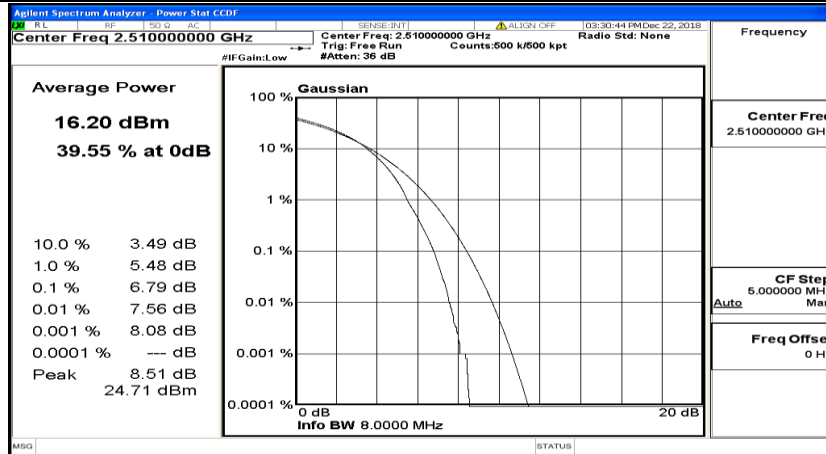
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



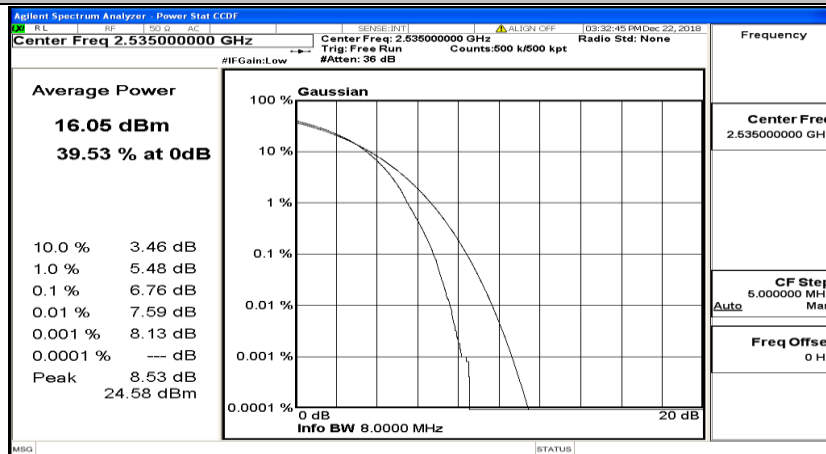
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



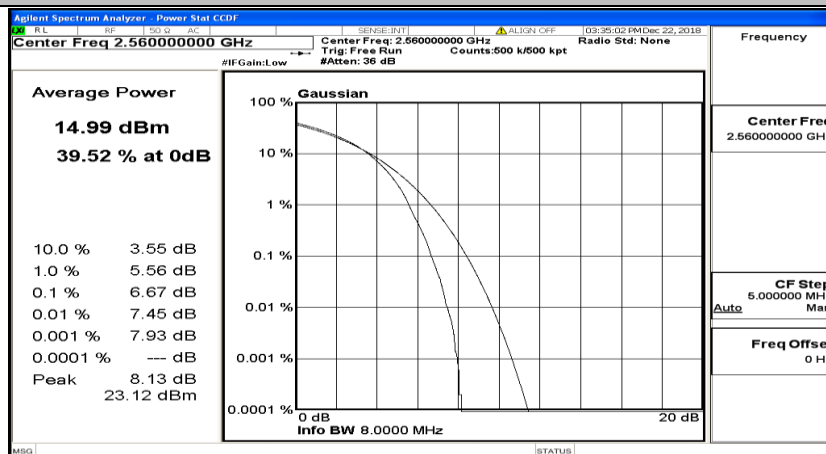
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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



E.3 26dB Bandwidth and Occupied Bandwidth

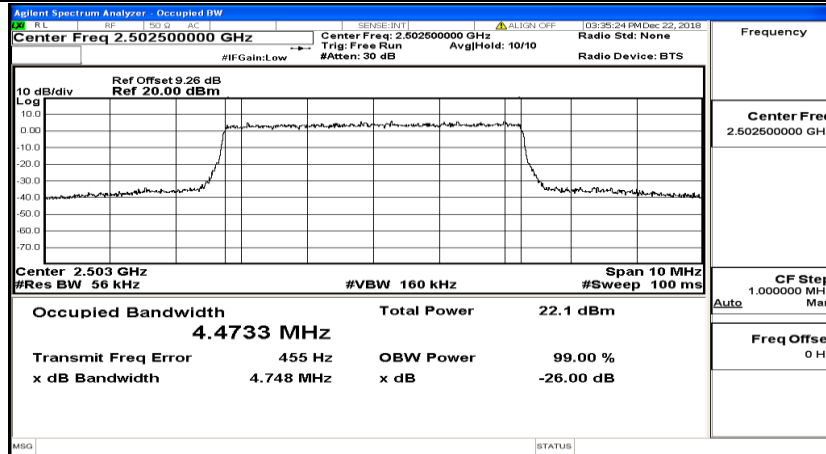
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4733	4.748	PASS
	MCH	4.4771	4.755	PASS
	HCH	4.4857	4.754	PASS
16QAM	LCH	4.4756	4.717	PASS
	MCH	4.4791	4.737	PASS
	HCH	4.4806	4.749	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9272	9.395	PASS
	MCH	8.9485	9.366	PASS
	HCH	8.9440	9.341	PASS
16QAM	LCH	8.9293	9.366	PASS
	MCH	8.9454	9.352	PASS
	HCH	8.9577	9.398	PASS

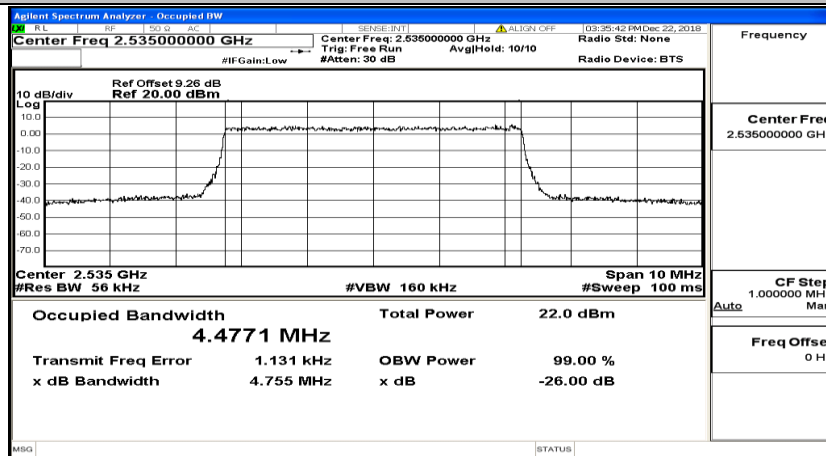
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.389	14.00	PASS
	MCH	13.390	13.92	PASS
	HCH	13.404	14.04	PASS
16QAM	LCH	13.385	13.95	PASS
	MCH	13.417	13.98	PASS
	HCH	13.410	14.01	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.815	18.53	PASS
	MCH	17.875	18.59	PASS
	HCH	17.832	18.53	PASS
16QAM	LCH	17.836	18.53	PASS
	MCH	17.869	18.56	PASS
	HCH	17.836	18.51	PASS

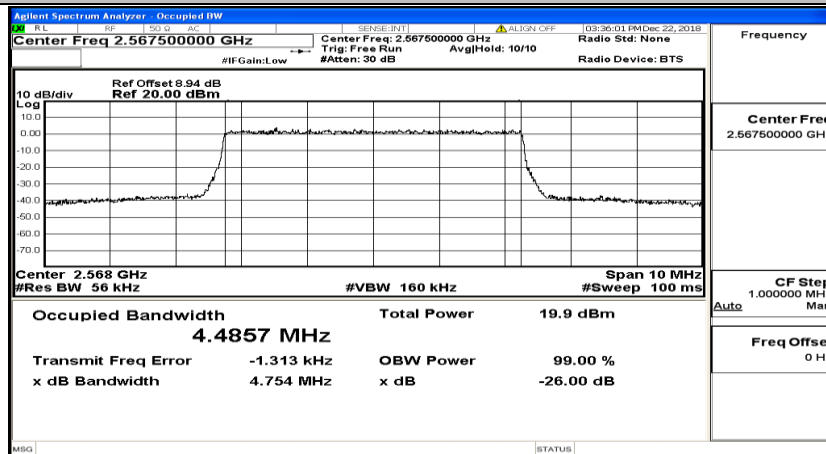
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



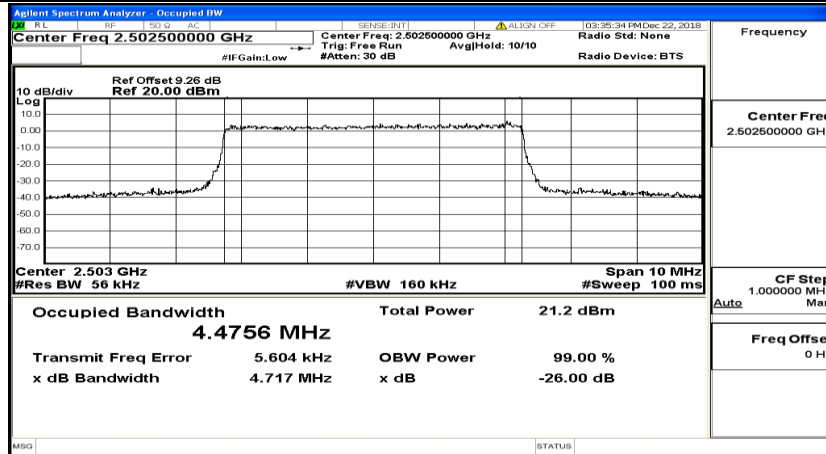
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



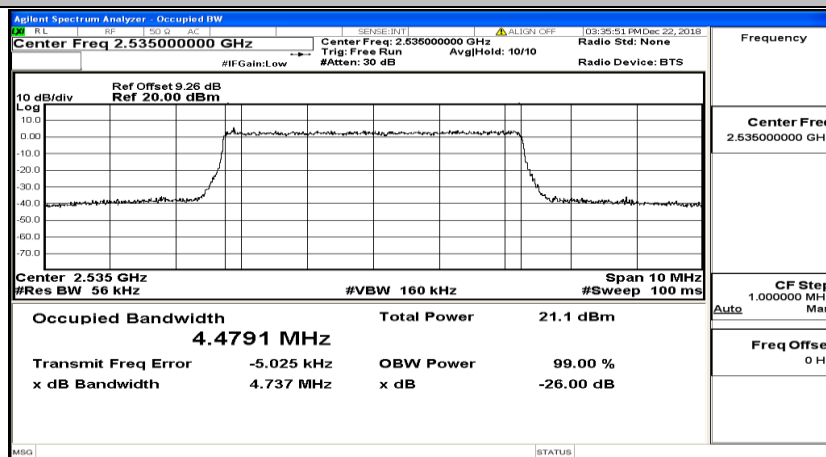
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



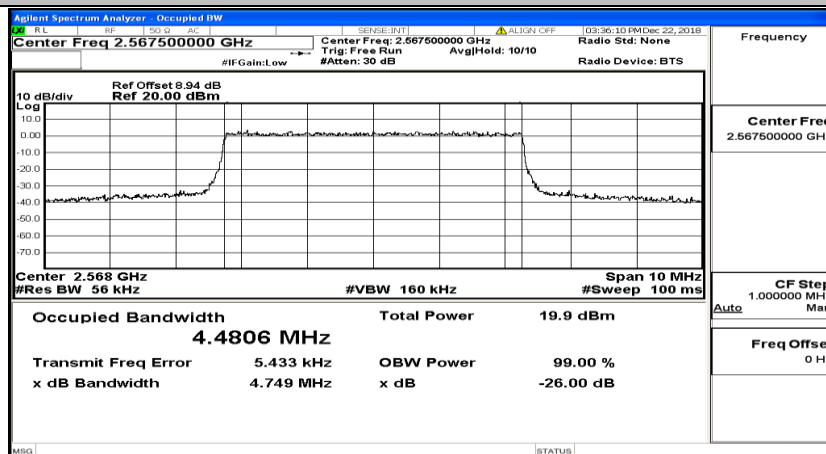
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



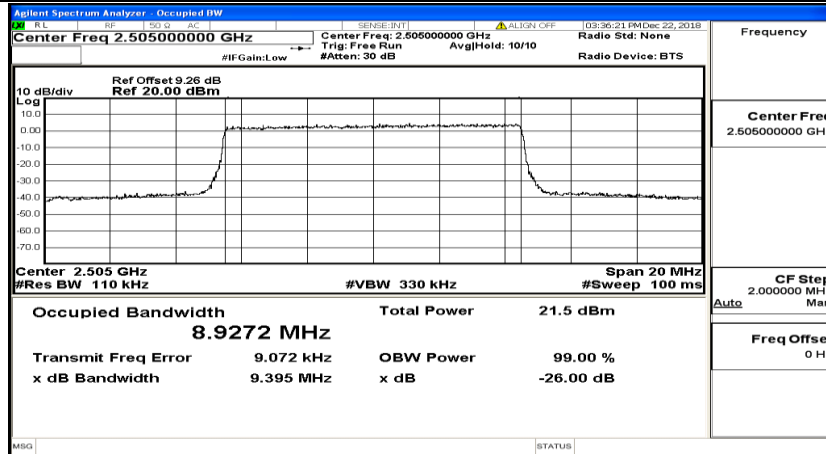
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



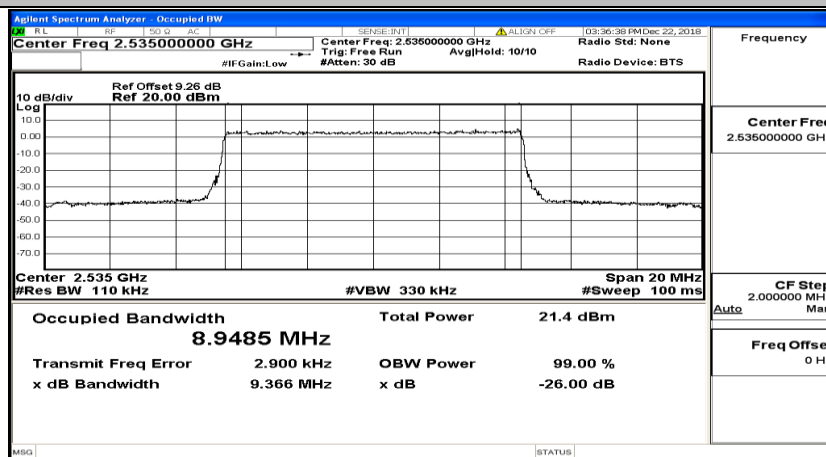
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



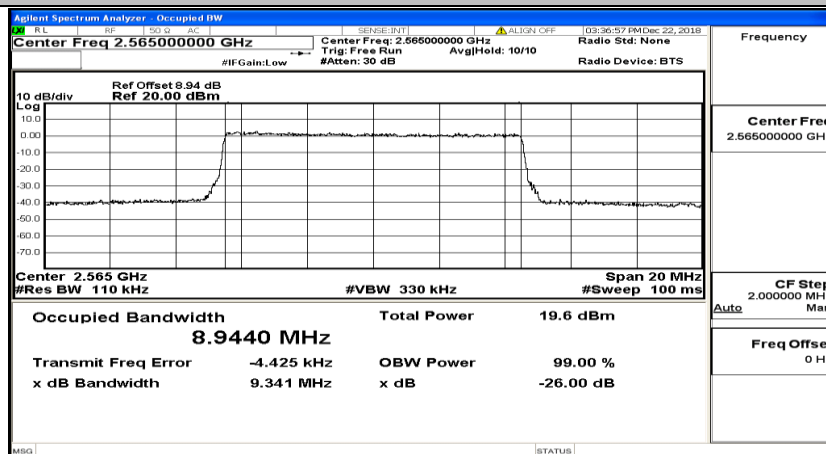
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



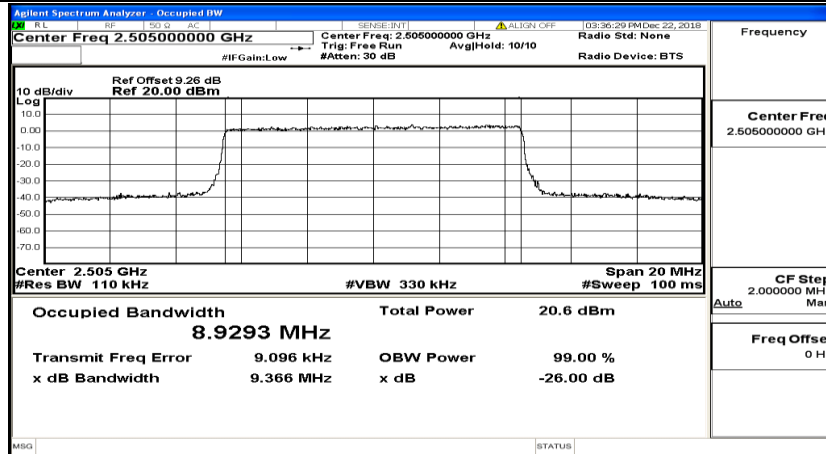
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



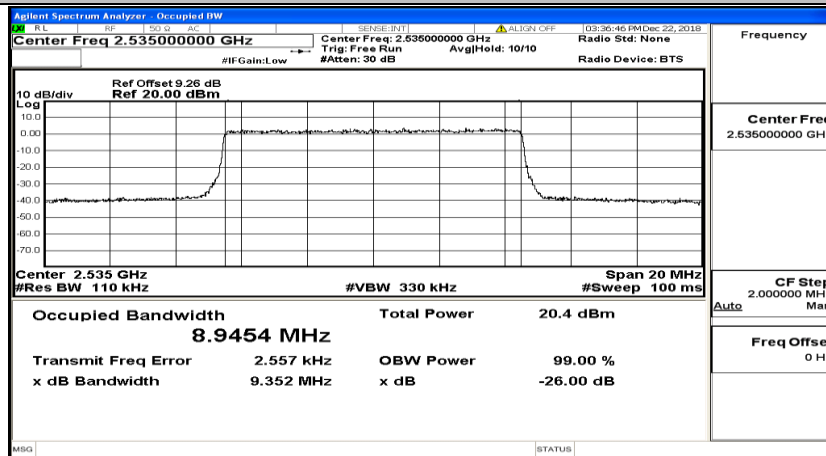
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



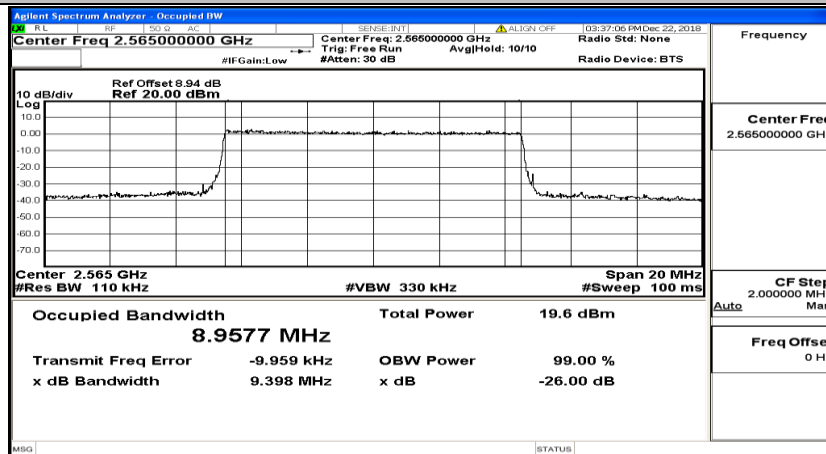
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



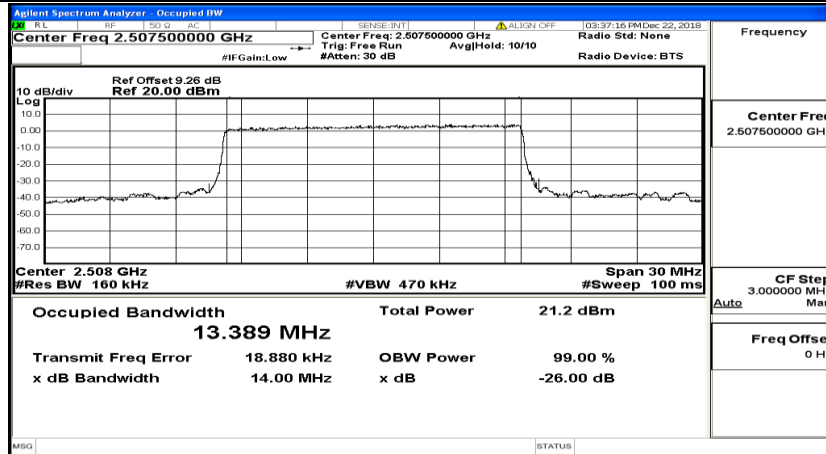
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



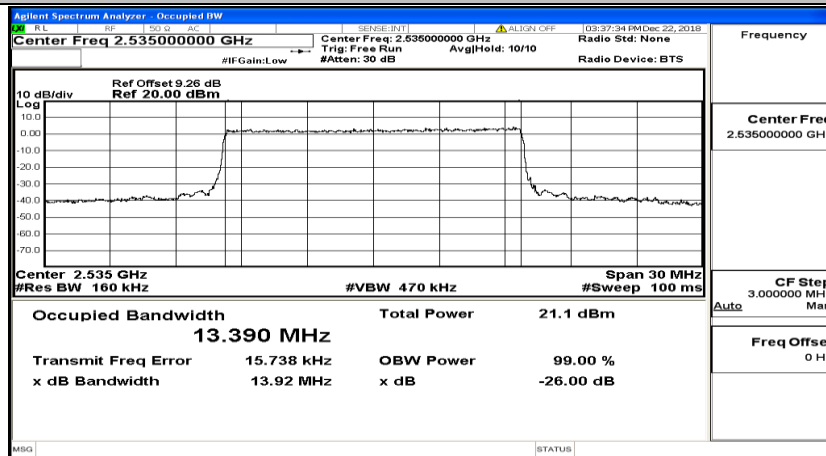
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



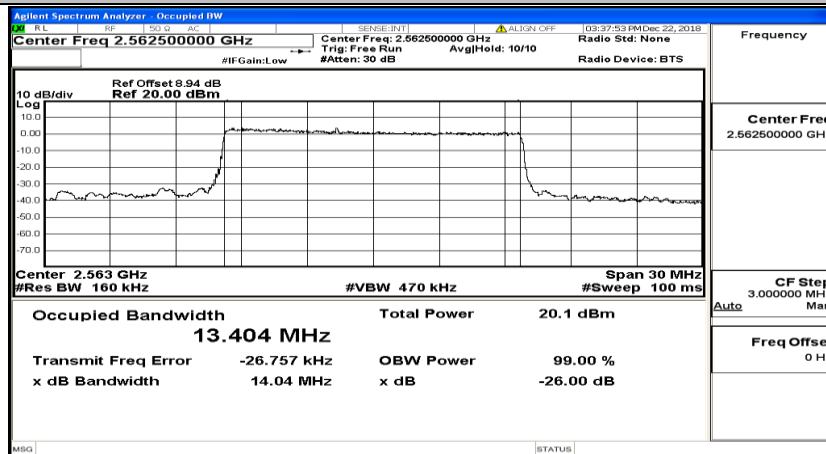
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



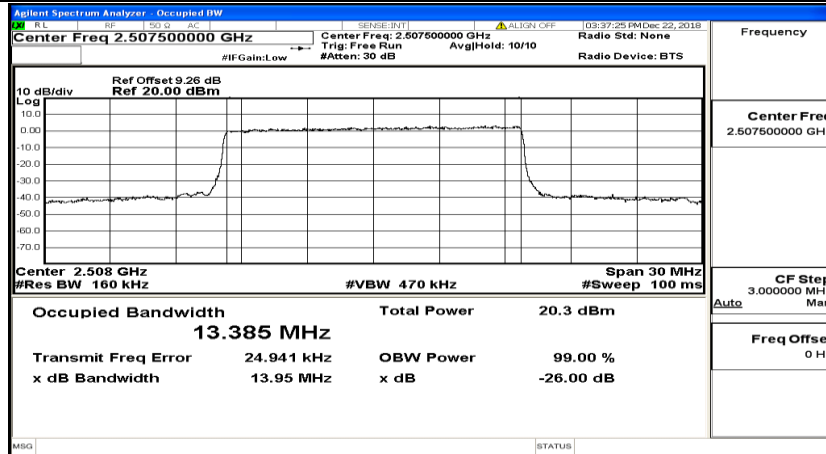
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



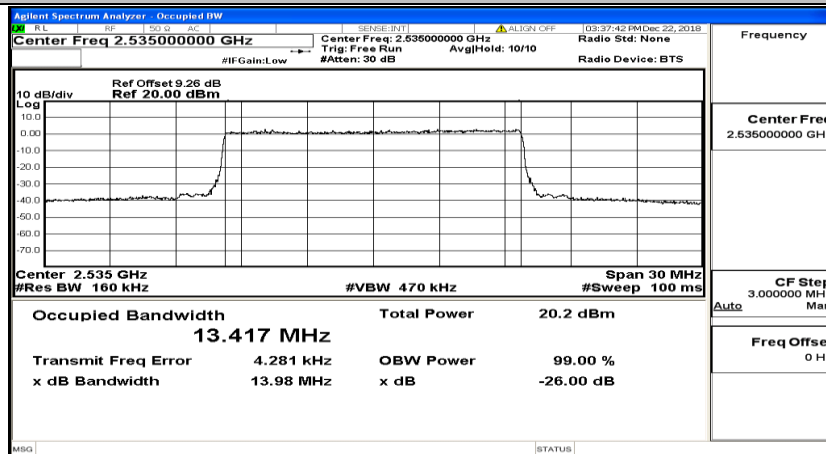
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



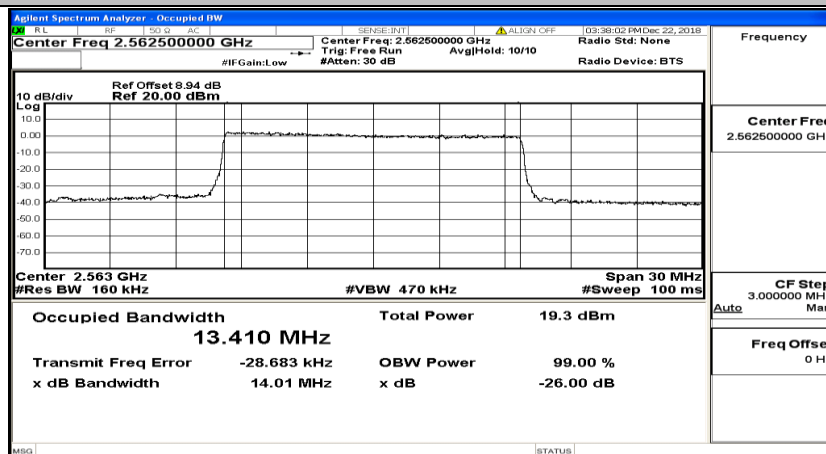
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



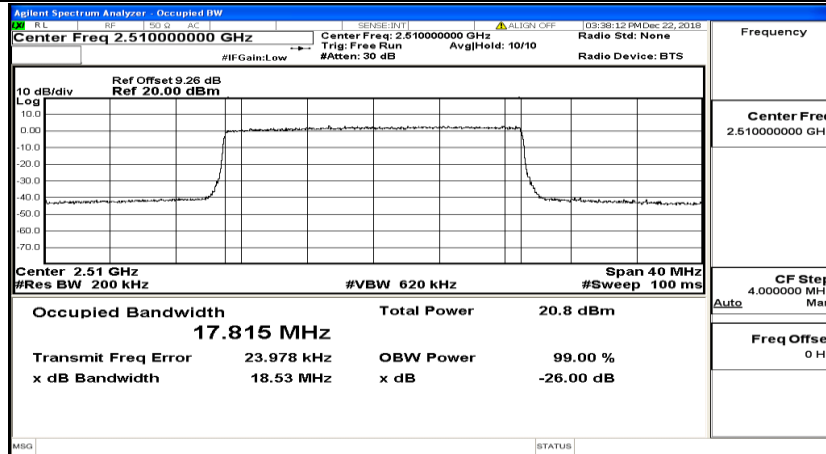
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



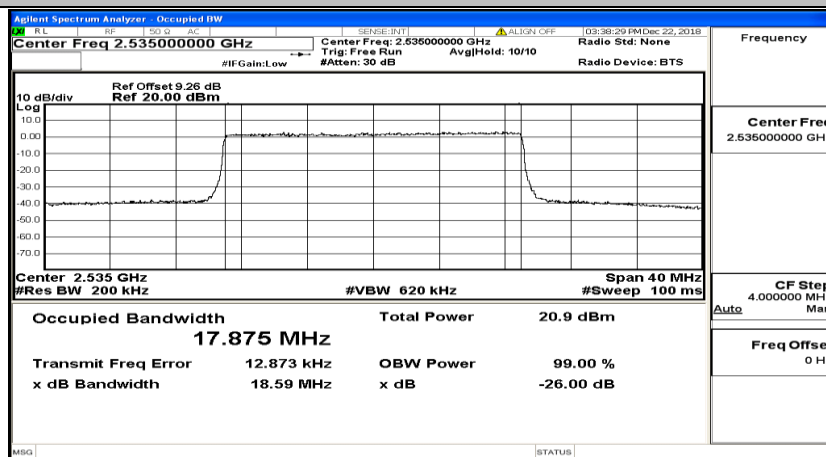
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



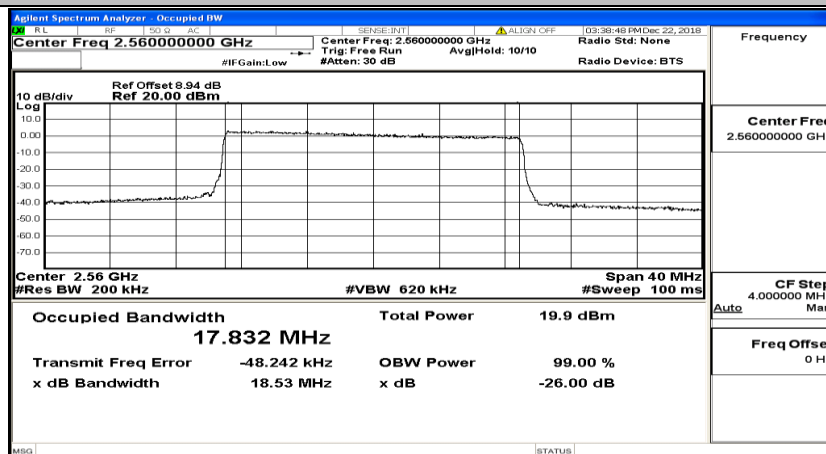
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



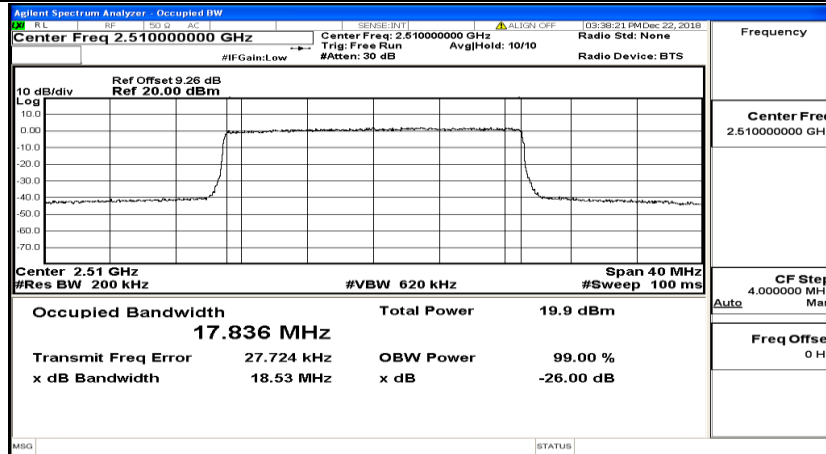
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



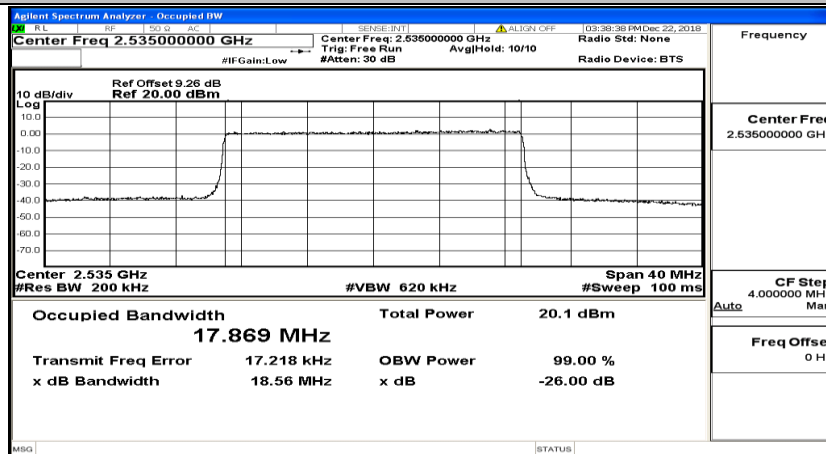
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



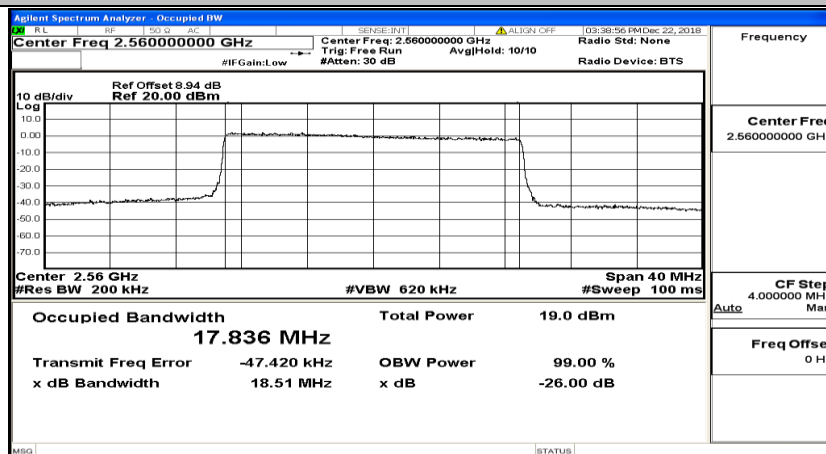
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM

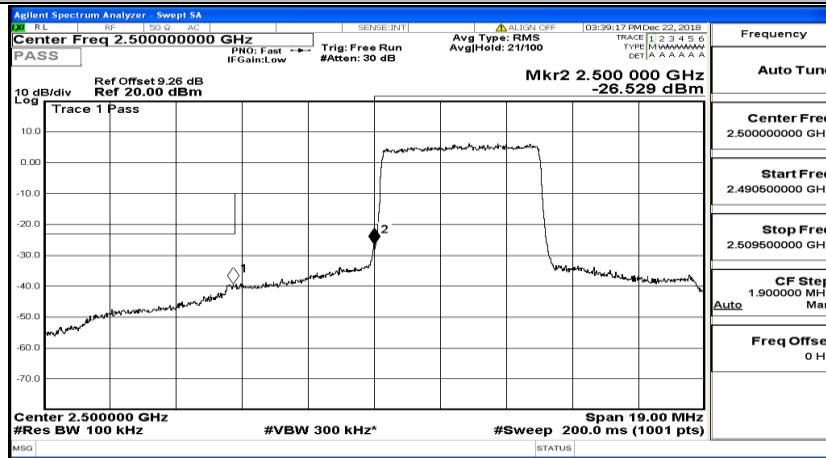


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

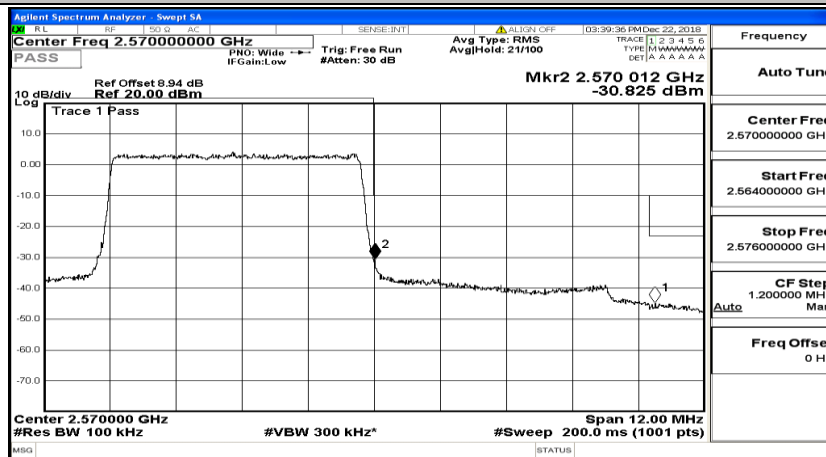


E.4 Band Edge

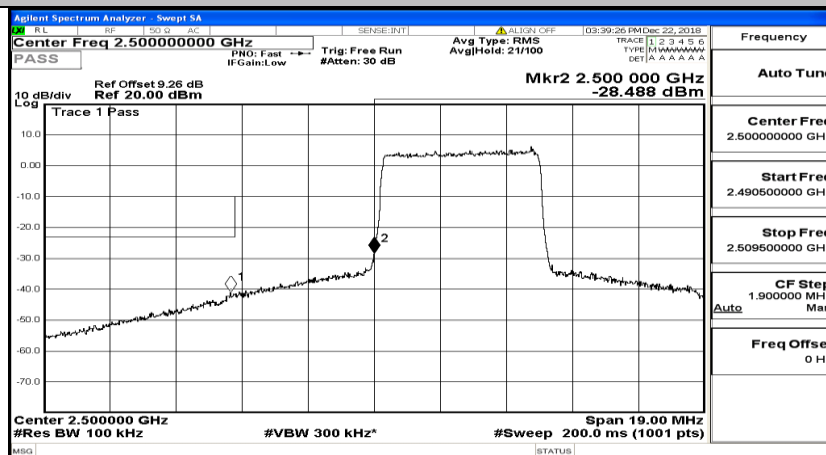
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



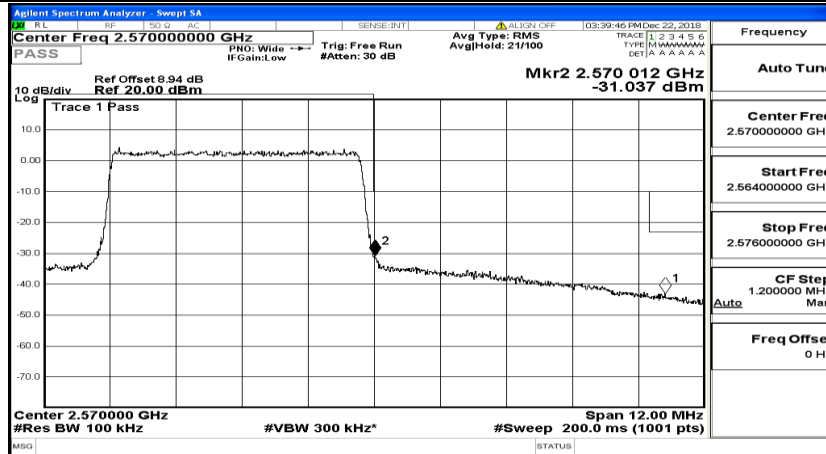
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



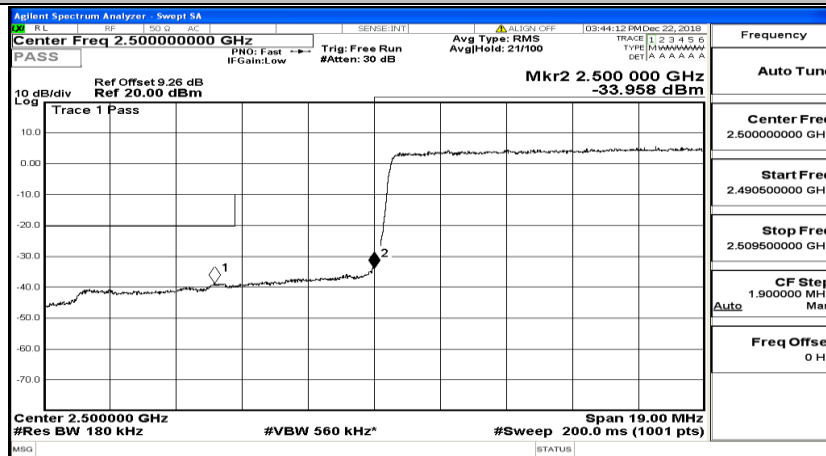
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



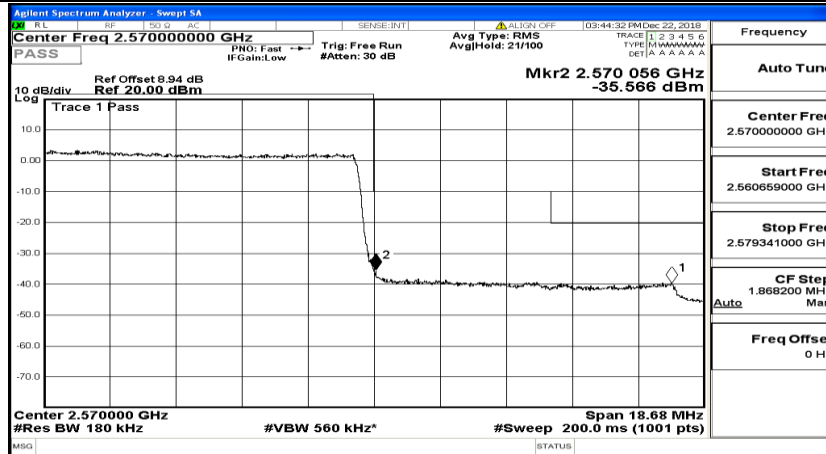
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



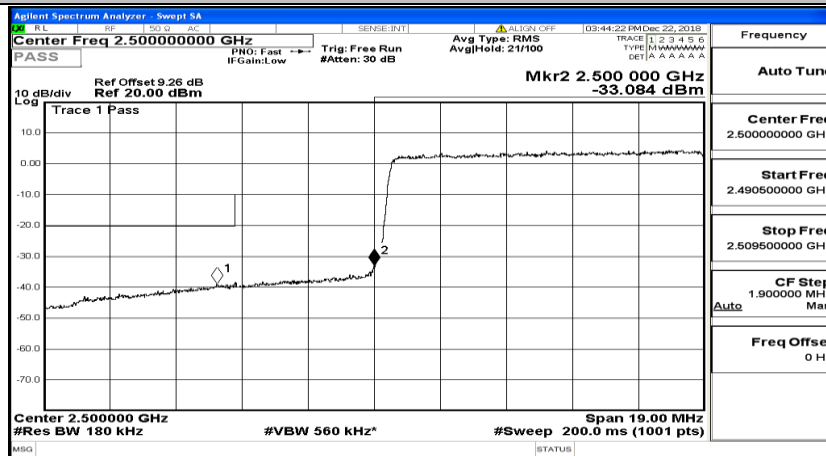
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



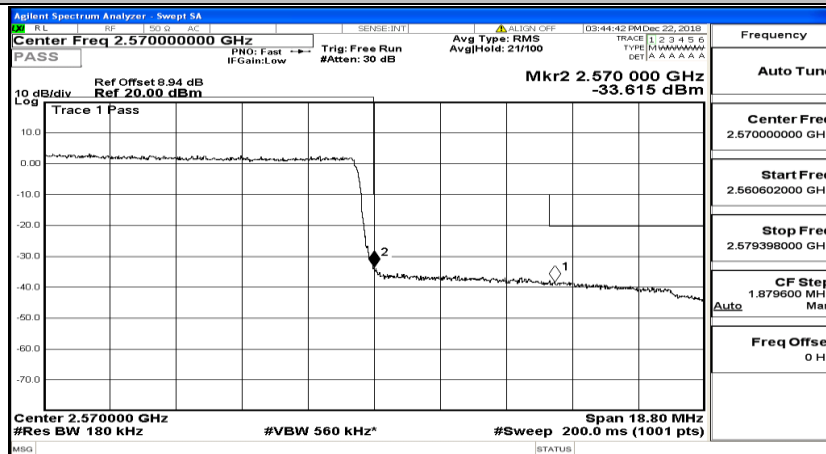
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



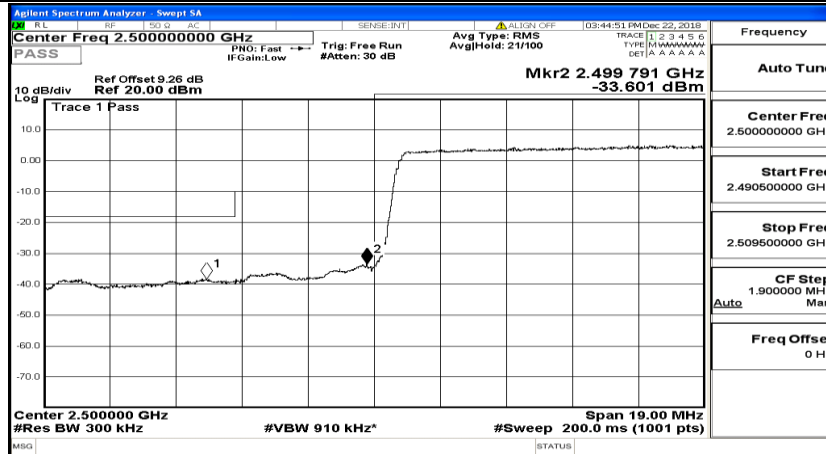
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



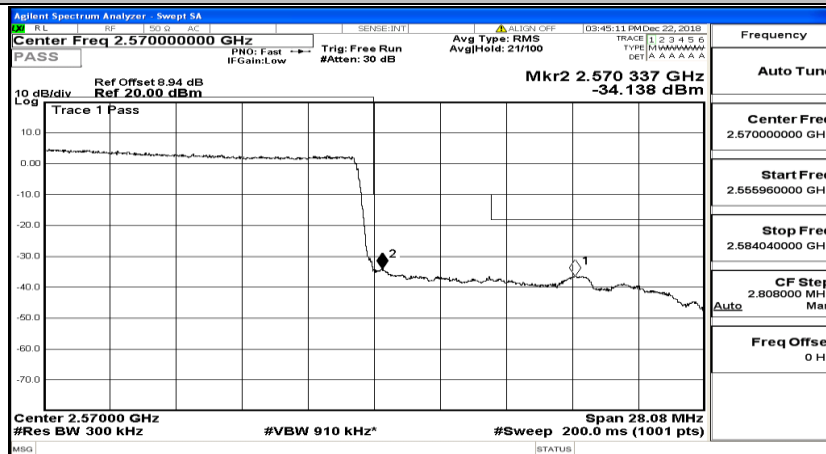
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM

