

Appendix G: Test Data for E-UTRA Band 7

Product Name: POS Terminal

Trade Mark: SmartPeak

Test Model: P500

Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

G.1 Conducted Output Power

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	23.92	23.38	PASS
		1	12	24.21	23.77	PASS
		1	24	23.80	23.26	PASS
		12	0	23.01	22.21	PASS
		12	6	23.07	22.24	PASS
		12	13	23.02	22.22	PASS
		25	0	23.07	22.11	PASS
	MCH	1	0	24.21	23.28	PASS
		1	12	24.60	23.68	PASS
		1	24	24.27	23.33	PASS
		12	0	23.39	22.41	PASS
		12	6	23.41	22.46	PASS
		12	13	23.38	22.42	PASS
		25	0	23.45	22.42	PASS
	HCH	1	0	23.46	22.70	PASS
		1	12	23.79	23.21	PASS
		1	24	23.74	22.98	PASS
		12	0	23.27	22.37	PASS
		12	6	23.33	22.43	PASS
		12	13	23.32	22.39	PASS
		25	0	23.35	22.40	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	24.04	23.34	PASS
		1	24	24.11	23.39	PASS
		1	49	23.73	23.06	PASS
		25	0	23.04	22.01	PASS
		25	12	23.04	22.00	PASS
		25	25	23.01	22.01	PASS
		50	0	23.46	22.53	PASS
	MCH	1	0	24.16	23.54	PASS
		1	24	24.50	23.84	PASS
		1	49	24.23	23.56	PASS
		25	0	23.38	22.42	PASS
		25	12	23.44	22.41	PASS
		25	25	23.40	22.46	PASS
		50	0	23.44	22.46	PASS
	HCH	1	0	23.26	22.69	PASS
		1	24	23.72	23.20	PASS
		1	49	23.81	23.33	PASS
		25	0	23.17	22.18	PASS
		25	12	23.13	22.30	PASS
		25	25	23.25	22.28	PASS
		50	0	23.21	22.25	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.97	23.24	PASS
		1	37	23.99	23.26	PASS
		1	74	23.53	22.87	PASS
		37	0	23.44	22.40	PASS
		37	18	23.42	22.42	PASS
		37	38	23.31	22.25	PASS
		75	0	23.29	22.36	PASS
	MCH	1	0	23.99	23.31	PASS
		1	37	24.52	23.86	PASS
		1	74	24.06	23.43	PASS
		37	0	23.30	22.29	PASS
		37	18	23.38	22.36	PASS
		37	38	23.39	22.34	PASS
		75	0	23.38	22.35	PASS
	HCH	1	0	23.03	22.39	PASS
		1	37	23.60	22.94	PASS
		1	74	23.73	23.13	PASS
		37	0	23.33	22.32	PASS
		37	18	23.42	22.43	PASS
		37	38	23.58	22.65	PASS
		75	0	23.44	22.37	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	24.02	23.24	PASS
		1	49	24.05	23.25	PASS
		1	99	23.67	22.82	PASS
		50	0	23.81	22.72	PASS
		50	25	23.87	22.82	PASS
		50	50	23.82	22.79	PASS
		100	0	23.79	22.77	PASS
	MCH	1	0	24.34	23.60	PASS
		1	49	24.05	23.26	PASS
		1	99	24.53	23.72	PASS
		50	0	23.78	22.72	PASS
		50	25	23.87	22.87	PASS
		50	50	23.90	22.89	PASS
		100	0	23.82	22.81	PASS
	HCH	1	0	23.72	22.80	PASS
		1	49	23.96	23.04	PASS
		1	99	24.30	23.22	PASS
		50	0	23.38	22.42	PASS
		50	25	23.55	22.50	PASS
		50	50	23.50	22.78	PASS
		100	0	23.52	22.47	PASS

G.2 Peak-to-Average Ratio

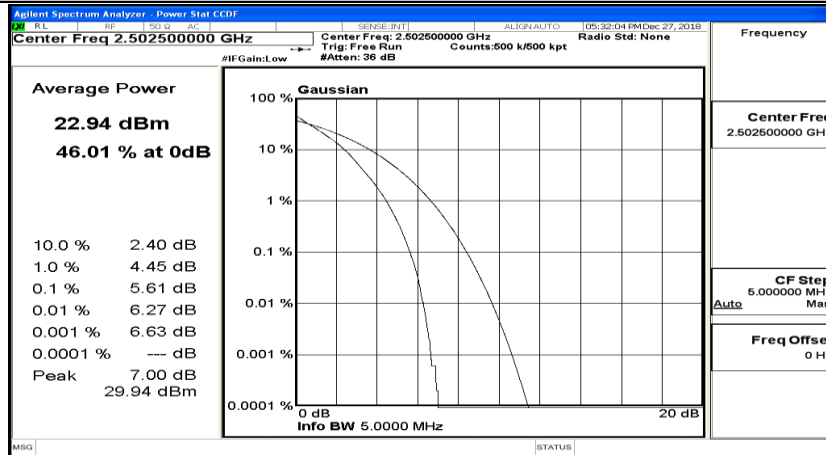
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.61	<13	PASS
	MCH	5.8	<13	PASS
	HCH	5.76	<13	PASS
16QAM	LCH	6.43	<13	PASS
	MCH	6.6	<13	PASS
	HCH	6.57	<13	PASS

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	5.8	<13	PASS
	HCH	5.69	<13	PASS
16QAM	LCH	6.28	<13	PASS
	MCH	6.47	<13	PASS
	HCH	6.38	<13	PASS

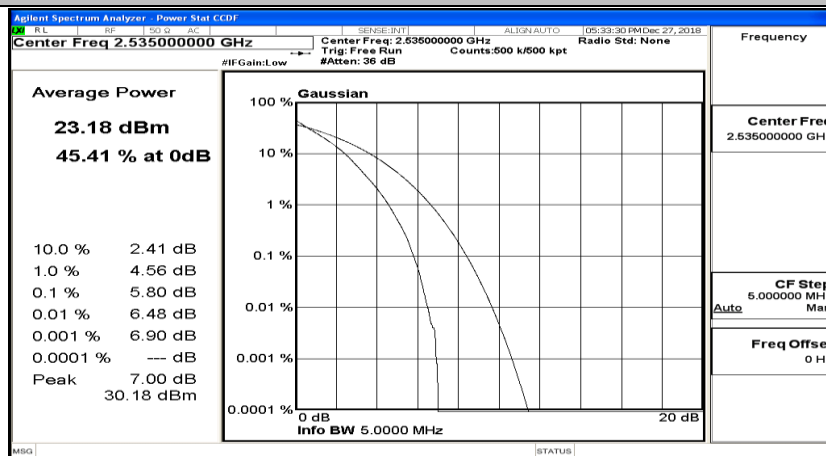
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.97	<13	PASS
	MCH	5.04	<13	PASS
	HCH	4.95	<13	PASS
16QAM	LCH	6.28	<13	PASS
	MCH	6.32	<13	PASS
	HCH	6.2	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.73	<13	PASS
	MCH	5.75	<13	PASS
	HCH	5.67	<13	PASS
16QAM	LCH	6.74	<13	PASS
	MCH	6.82	<13	PASS
	HCH	6.65	<13	PASS

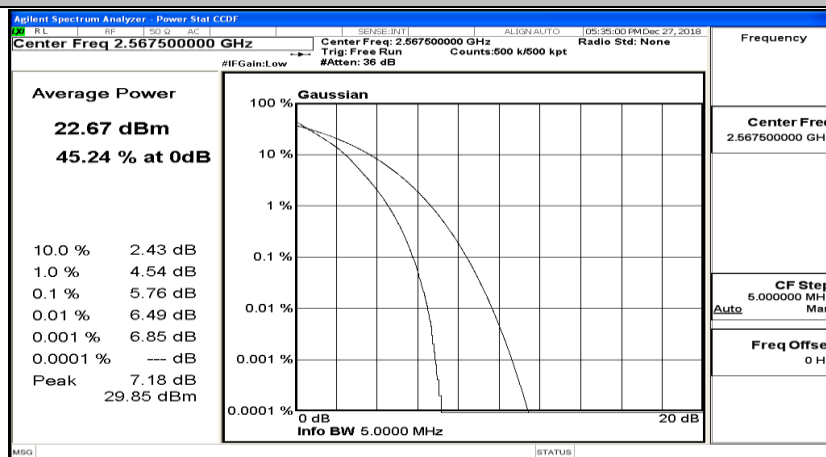
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



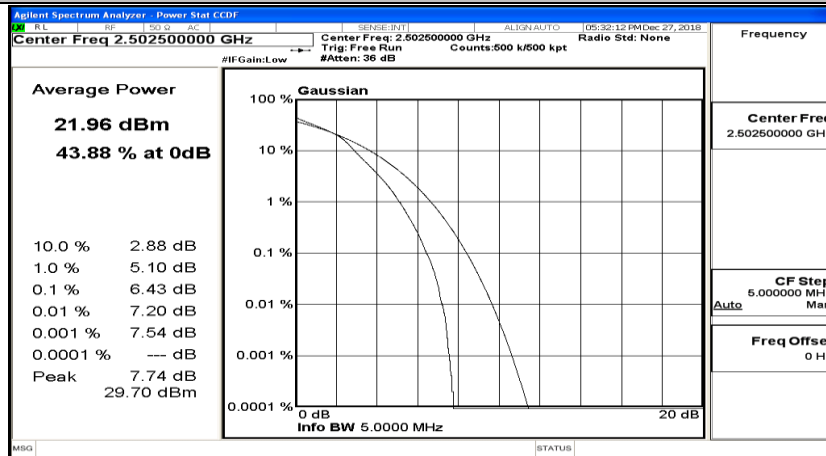
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



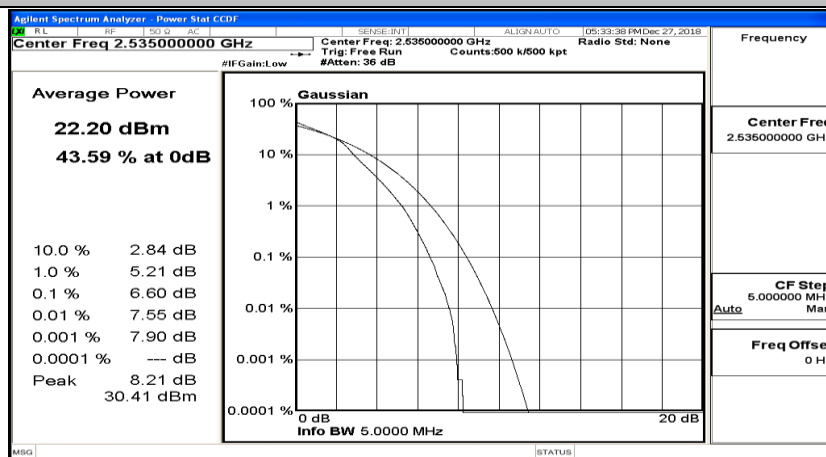
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



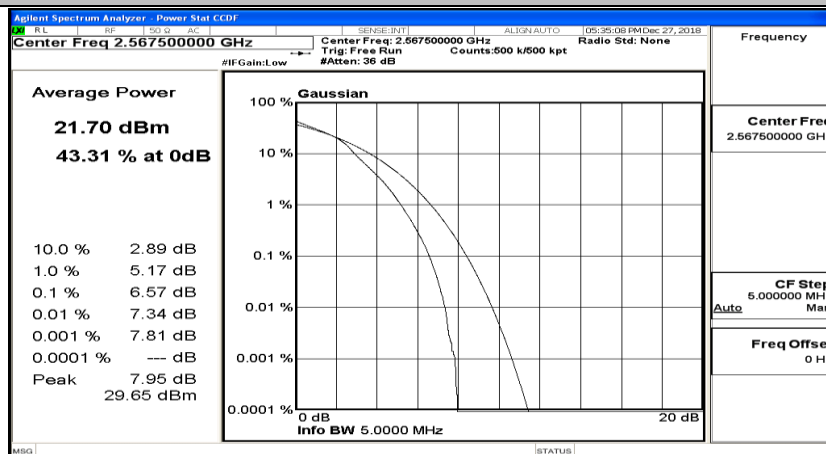
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



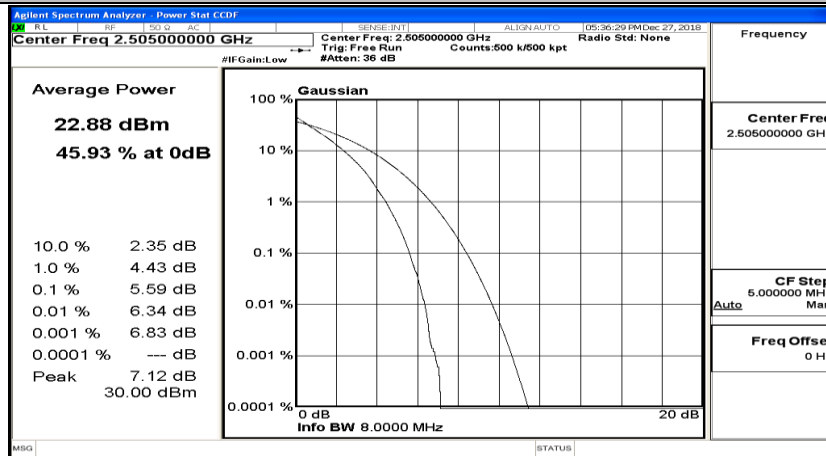
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



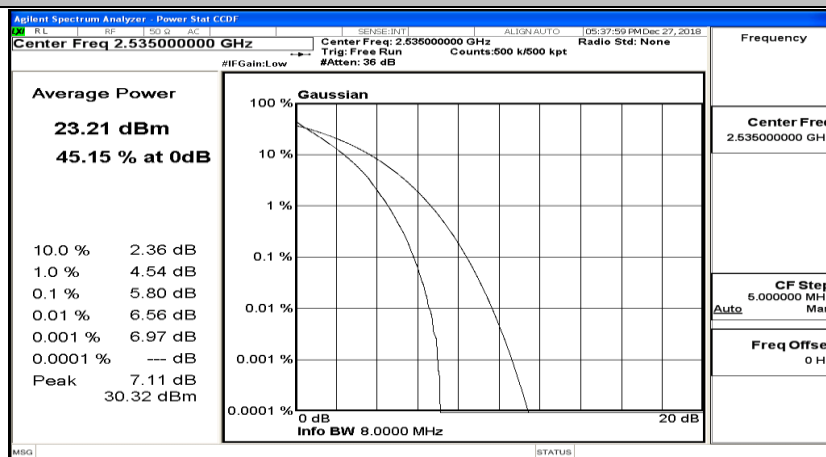
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



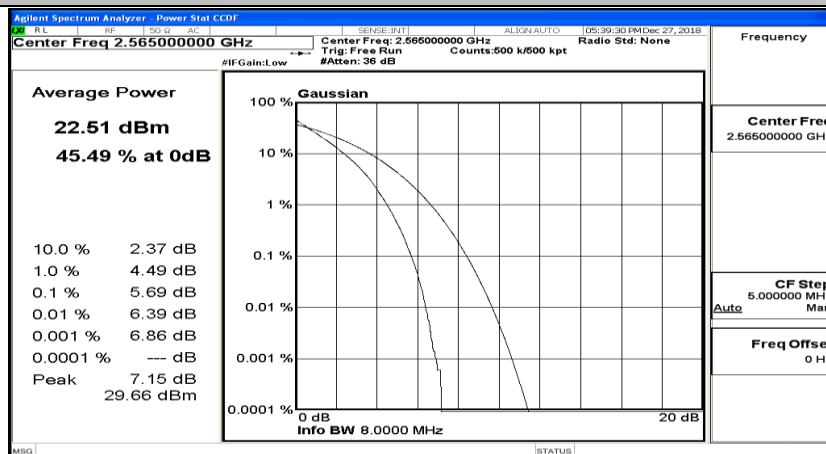
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



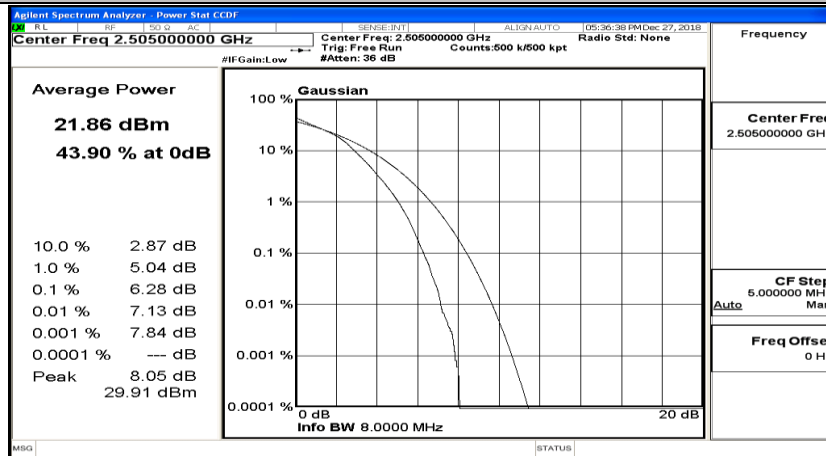
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



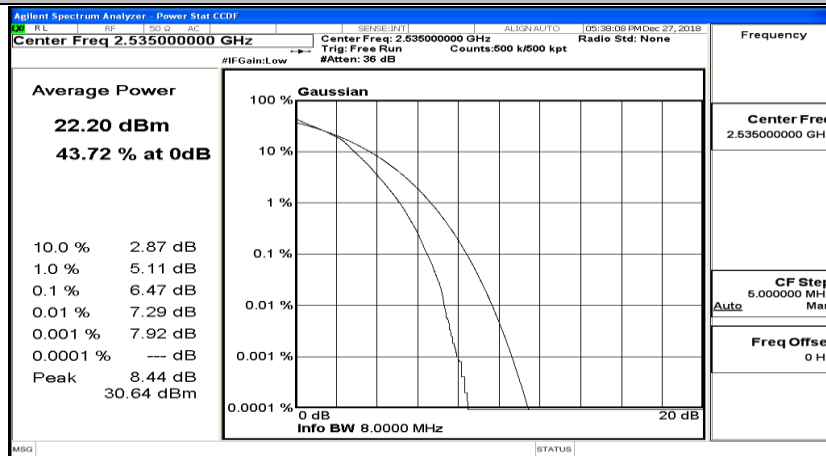
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



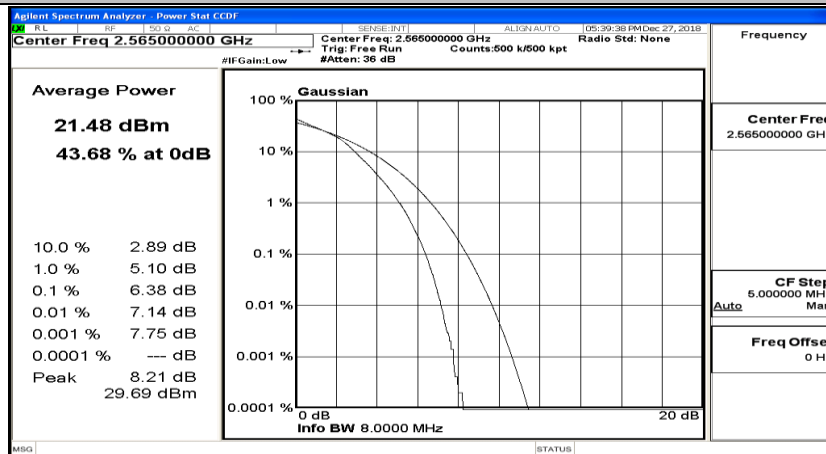
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



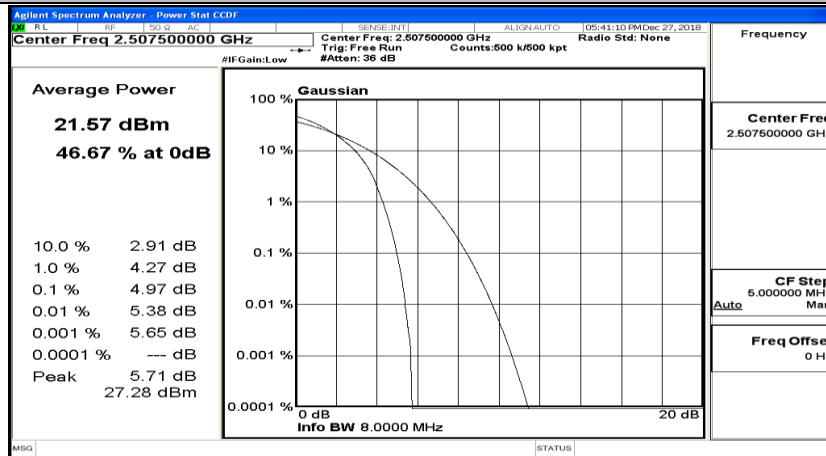
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



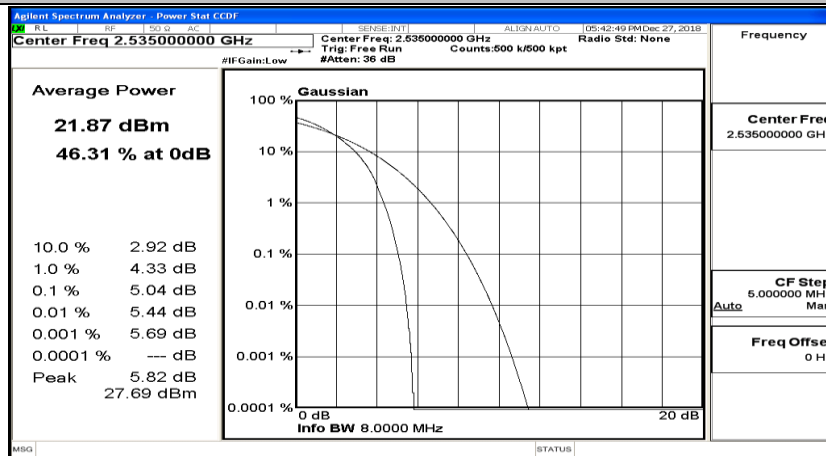
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



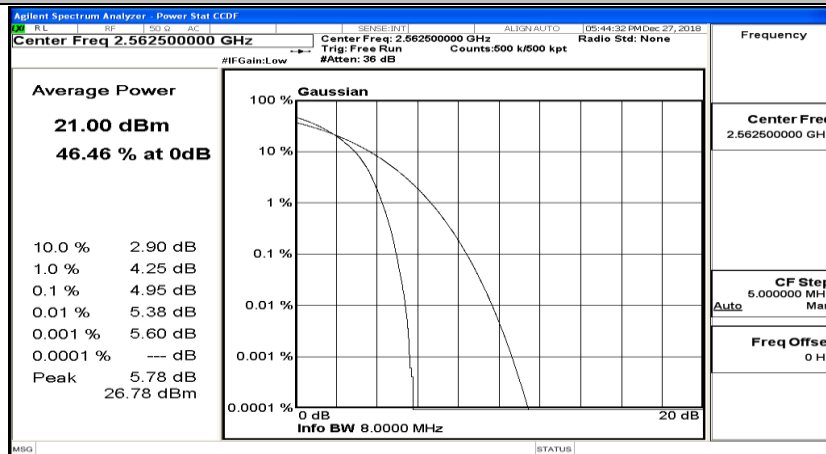
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



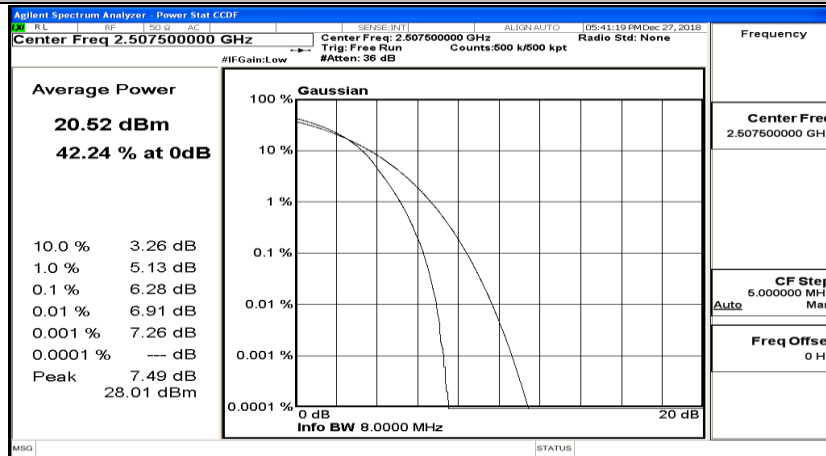
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



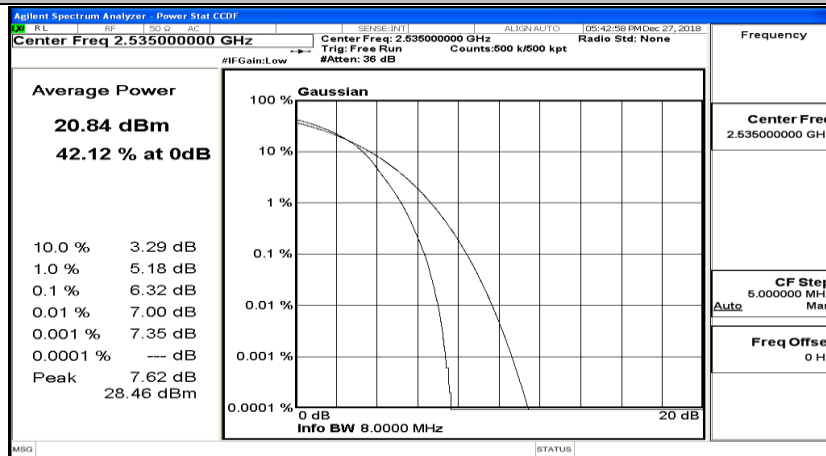
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



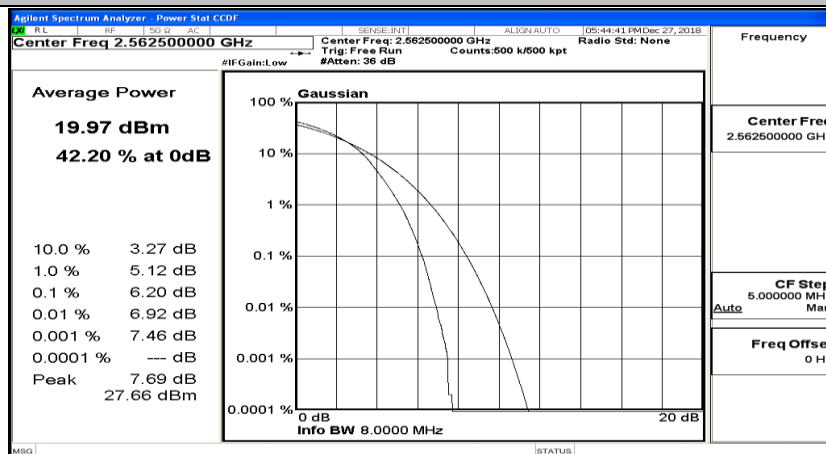
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



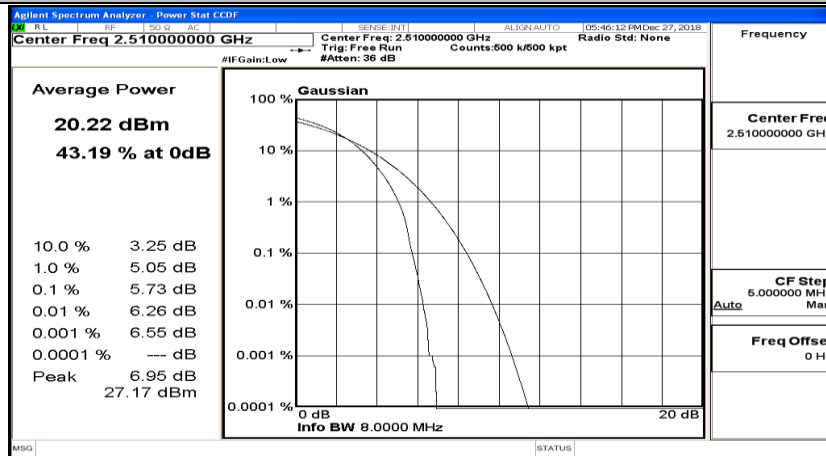
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



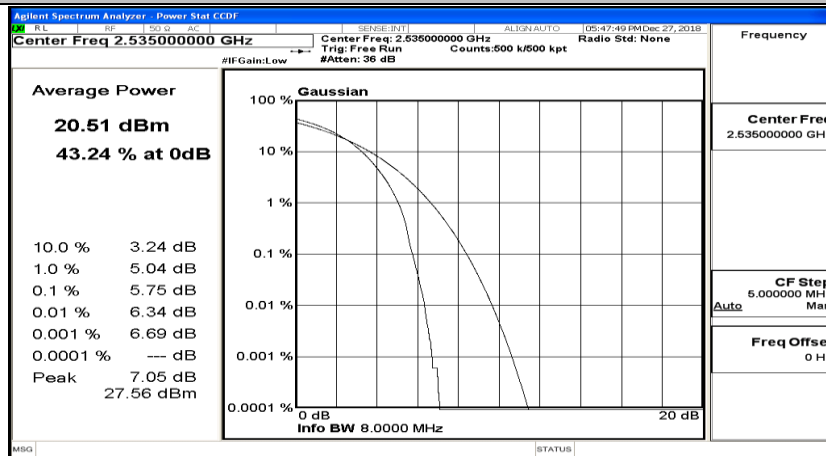
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



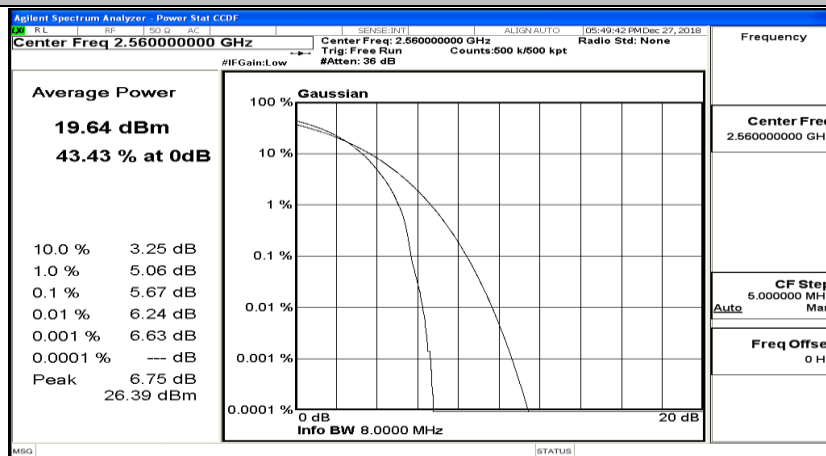
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



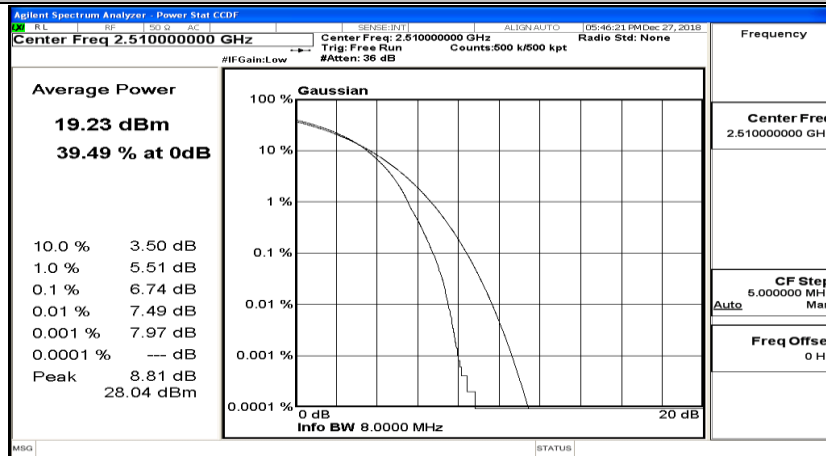
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



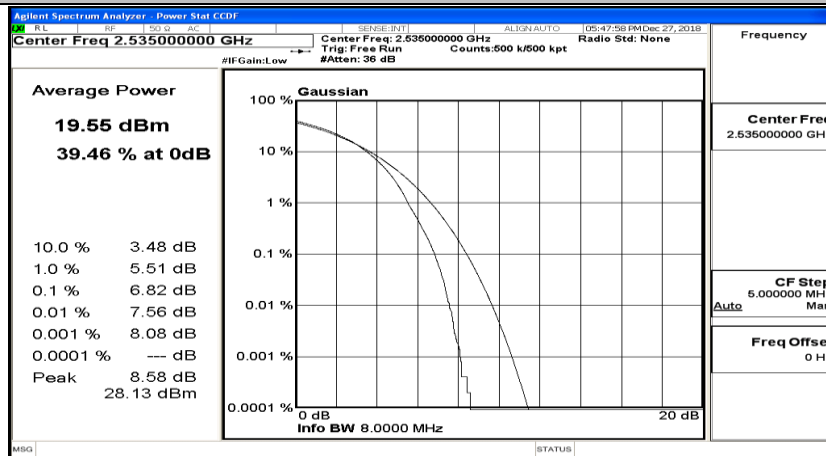
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



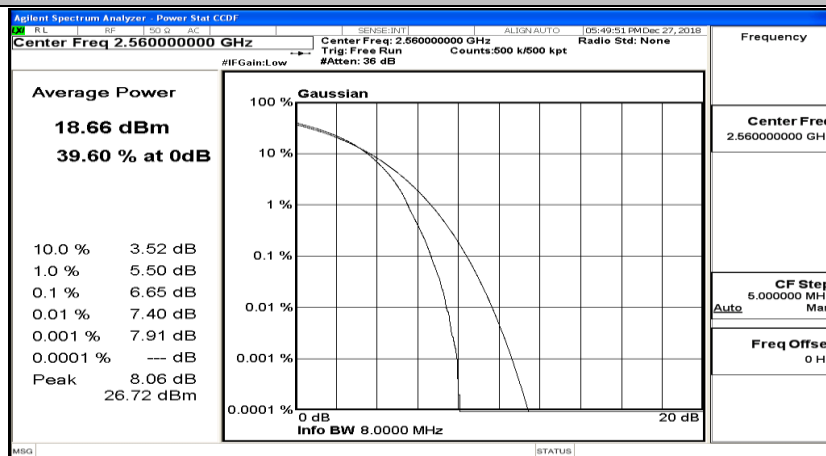
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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



G.3 26dB Bandwidth and Occupied Bandwidth

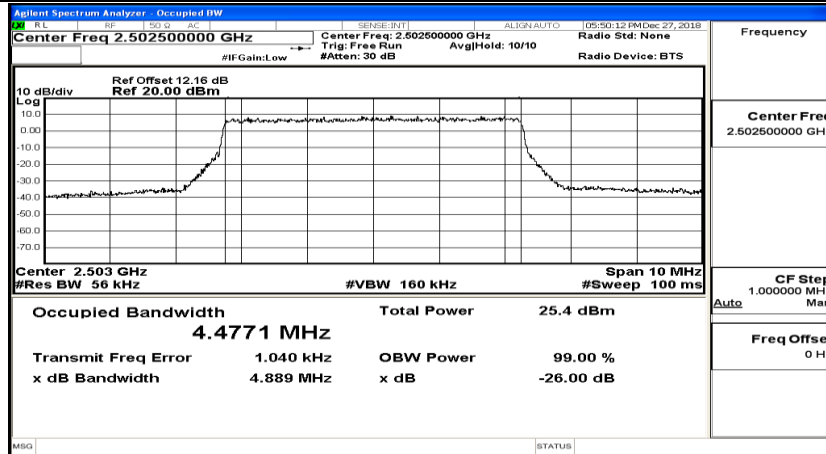
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4771	4.889	PASS
	MCH	4.4785	4.877	PASS
	HCH	4.4877	4.931	PASS
16QAM	LCH	4.4734	4.837	PASS
	MCH	4.4833	4.916	PASS
	HCH	4.4829	4.876	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9346	9.533	PASS
	MCH	8.9556	9.601	PASS
	HCH	8.9500	9.553	PASS
16QAM	LCH	8.9367	9.611	PASS
	MCH	8.9473	9.560	PASS
	HCH	8.9518	9.557	PASS

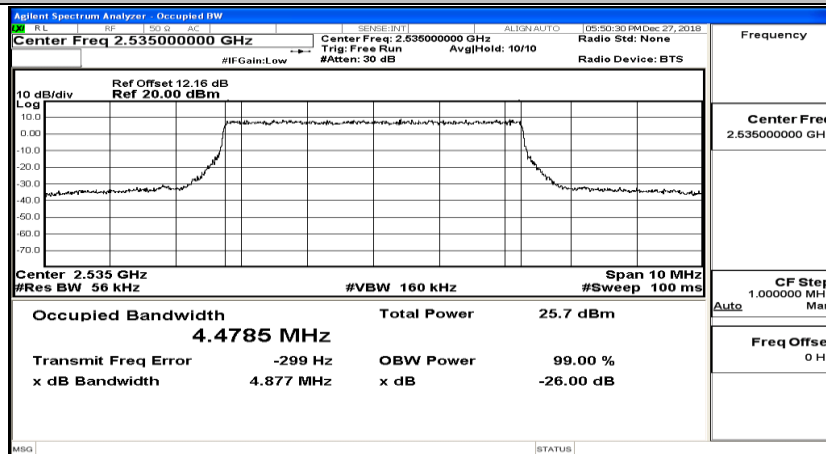
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.389	14.13	PASS
	MCH	13.420	14.06	PASS
	HCH	13.405	14.12	PASS
16QAM	LCH	13.399	14.03	PASS
	MCH	13.419	14.10	PASS
	HCH	13.397	14.11	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.836	18.60	PASS
	MCH	17.885	18.68	PASS
	HCH	17.840	18.61	PASS
16QAM	LCH	17.856	18.67	PASS
	MCH	17.878	18.72	PASS
	HCH	17.823	18.53	PASS

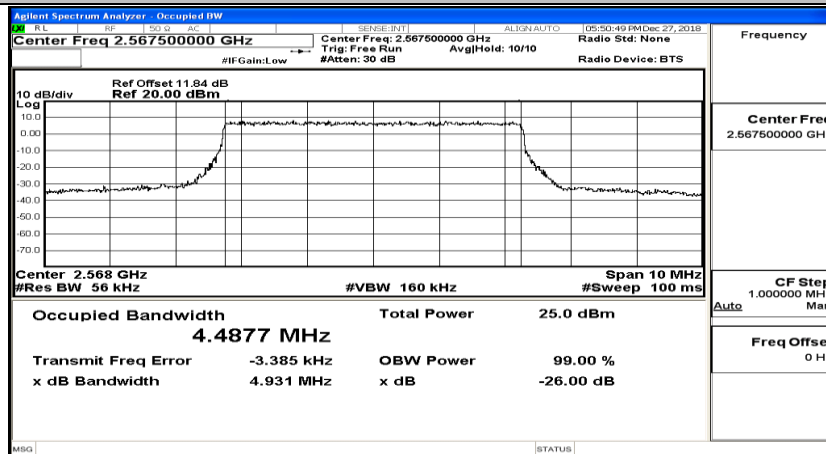
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



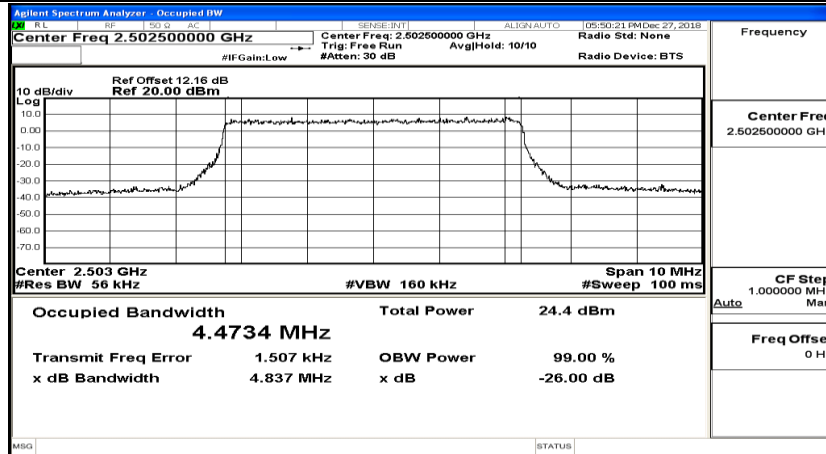
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



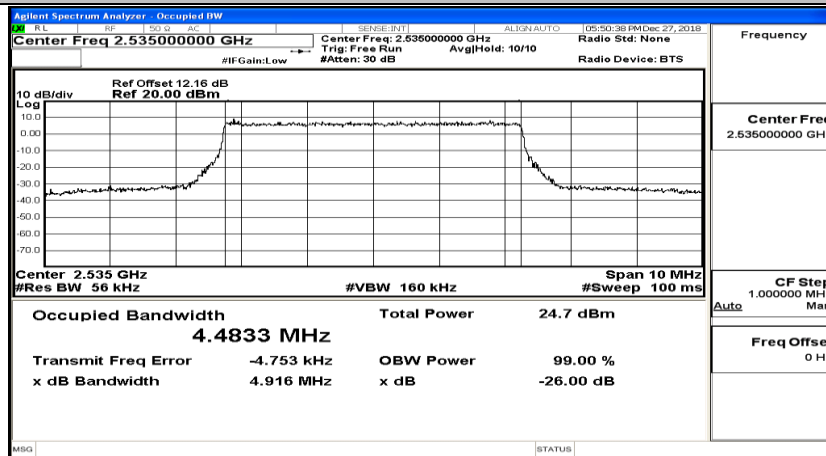
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



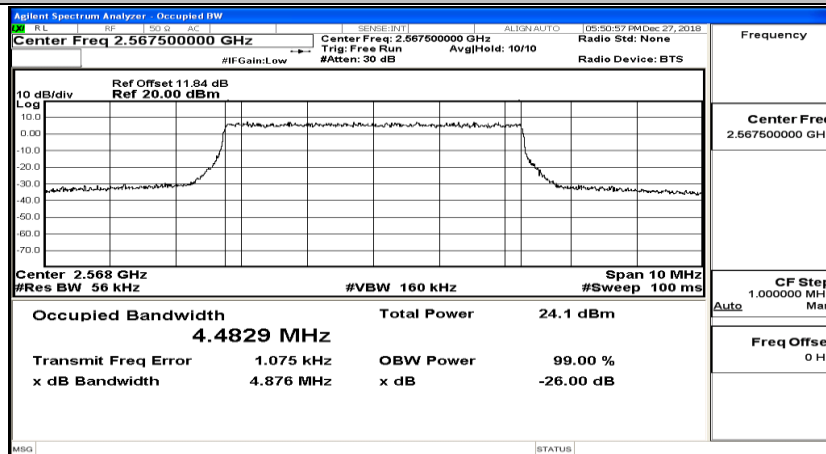
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



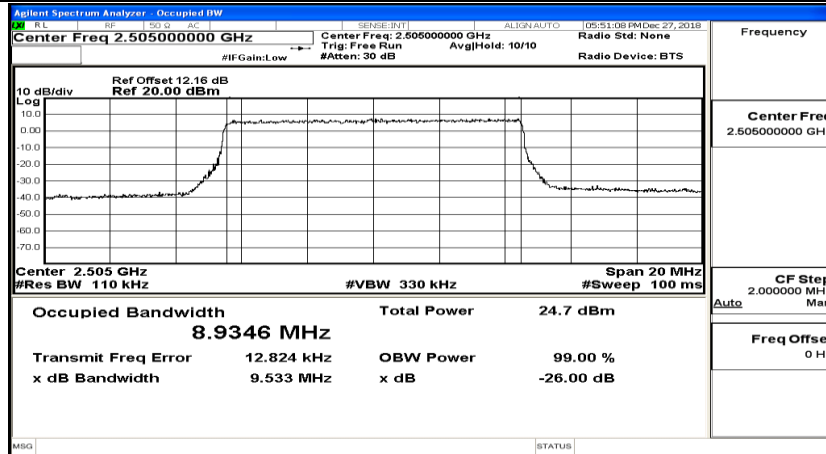
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



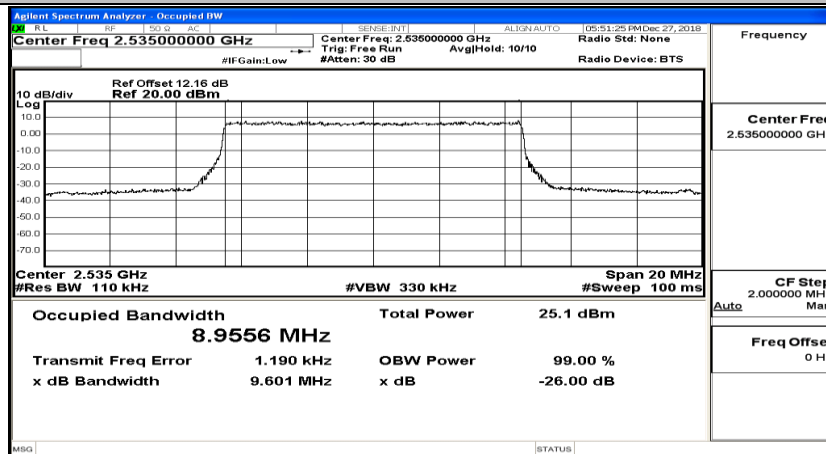
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



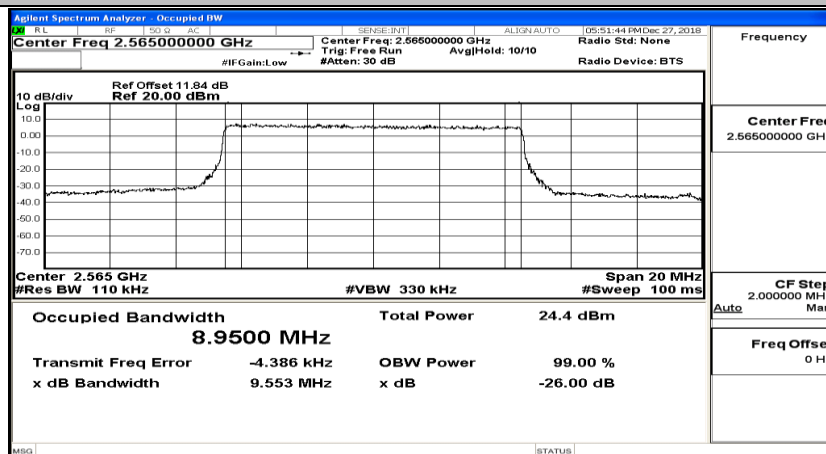
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



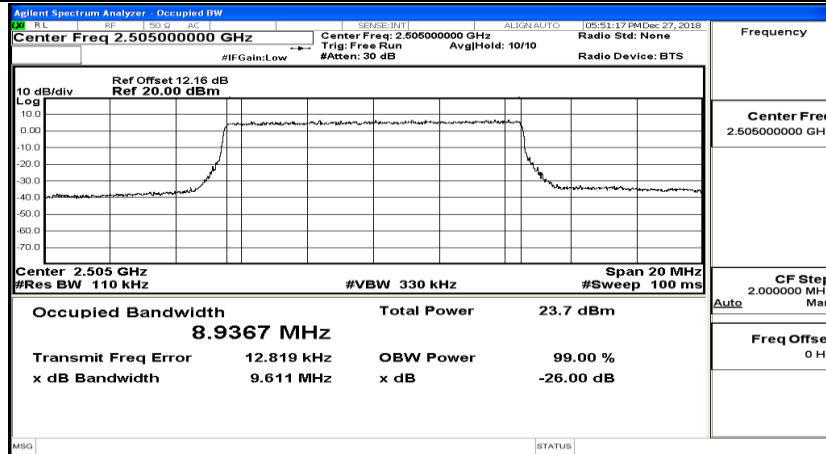
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



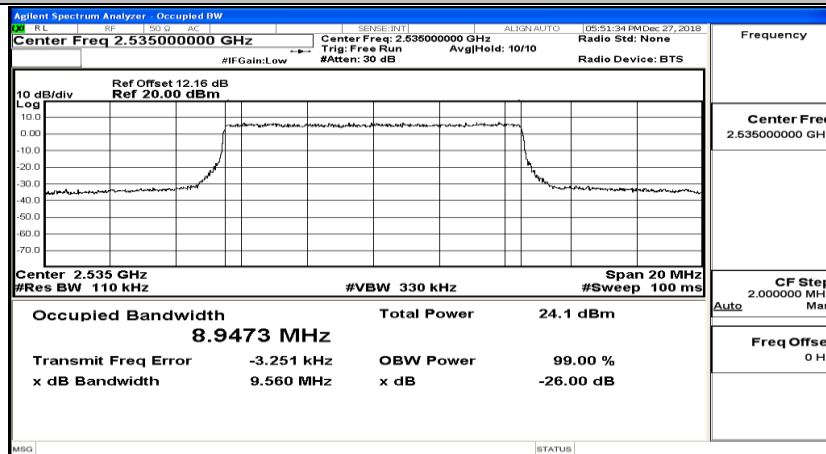
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



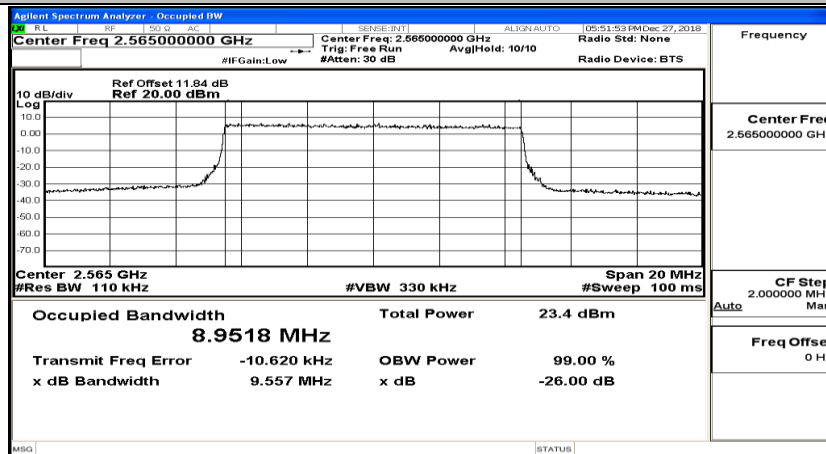
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



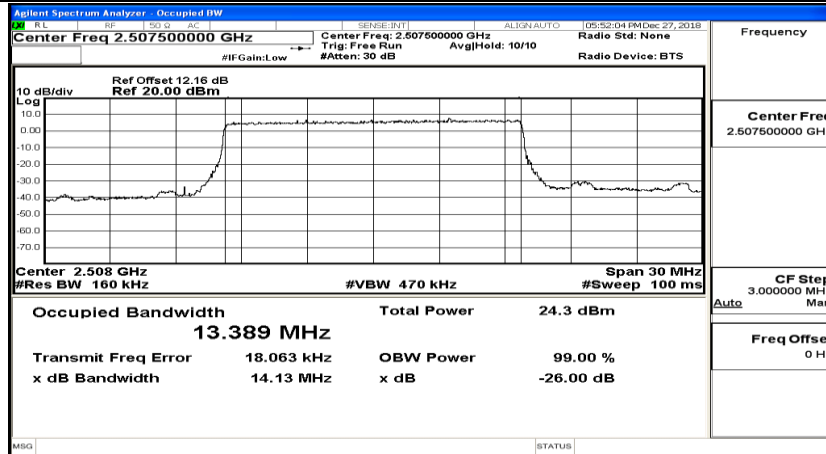
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



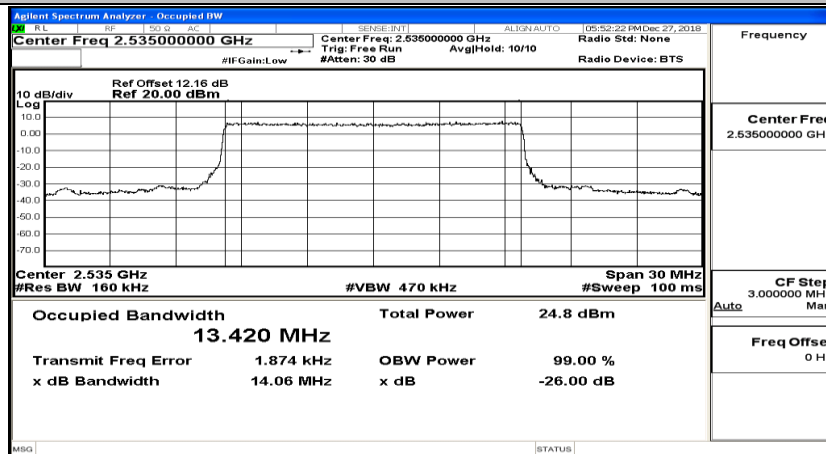
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



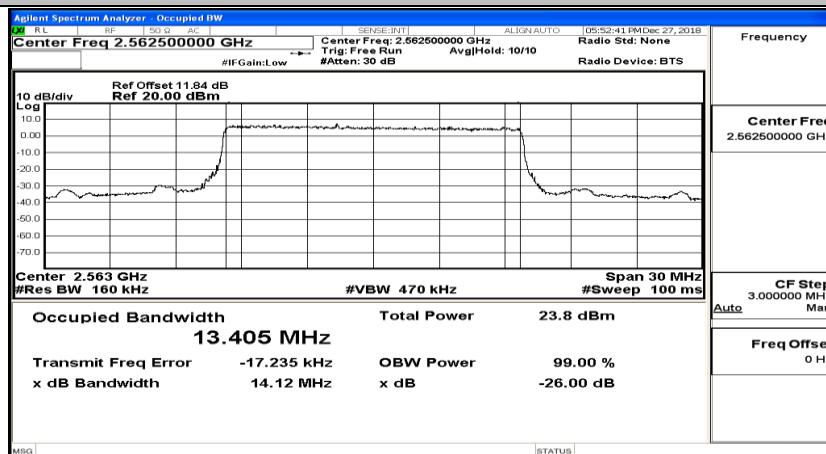
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



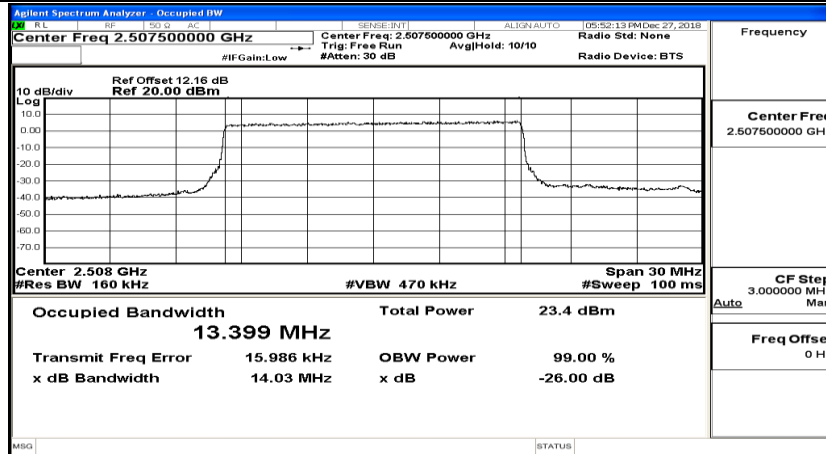
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



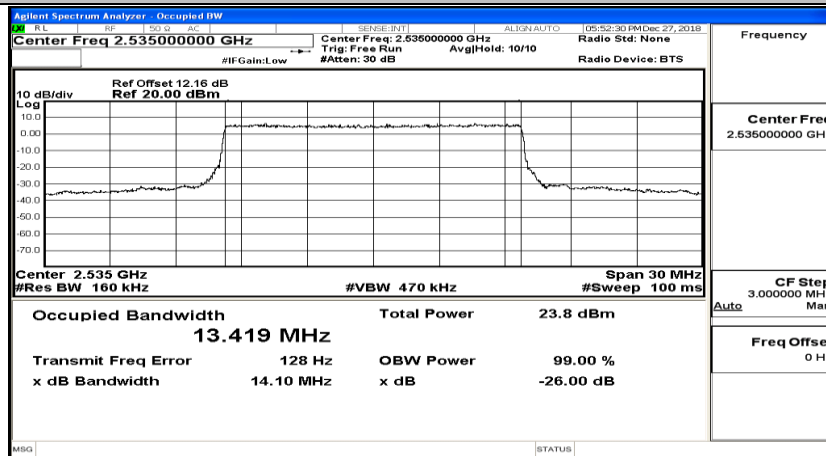
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



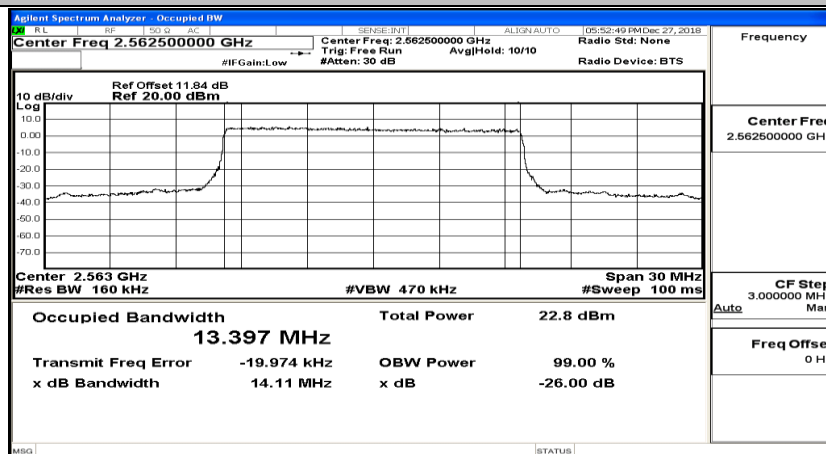
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



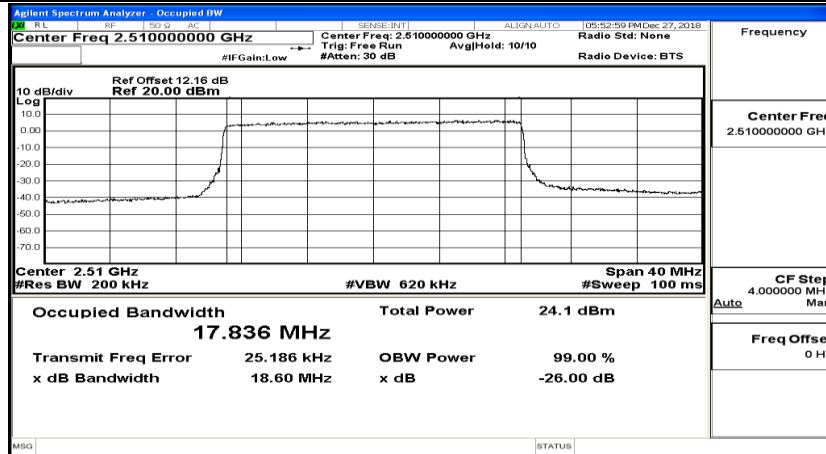
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



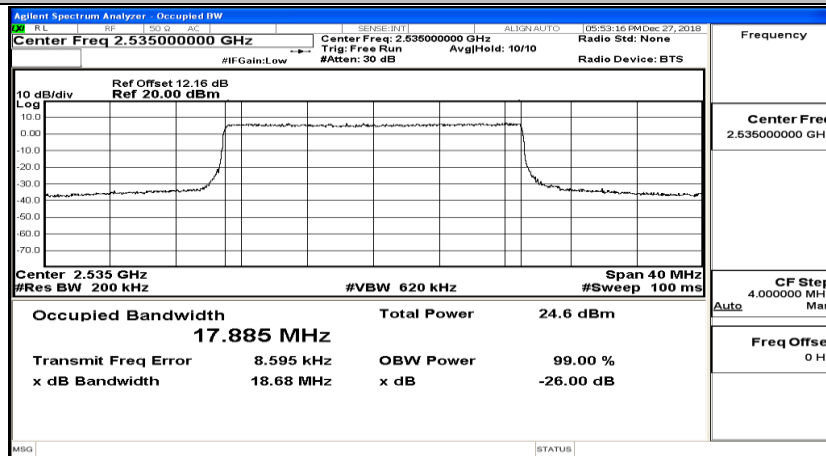
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



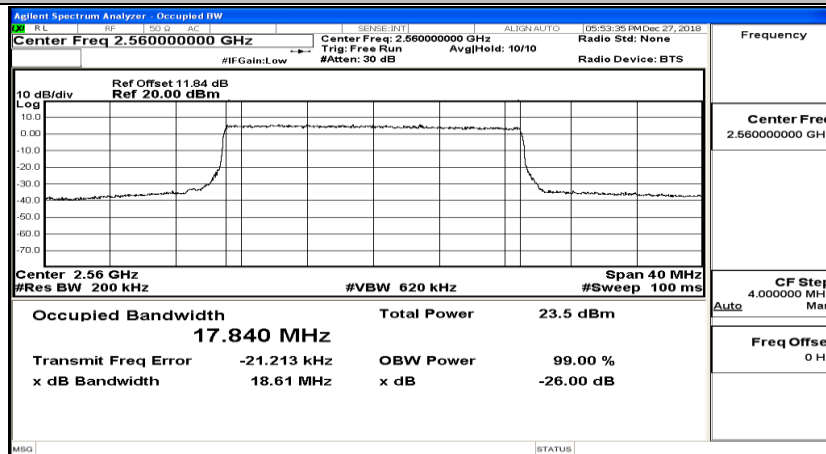
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



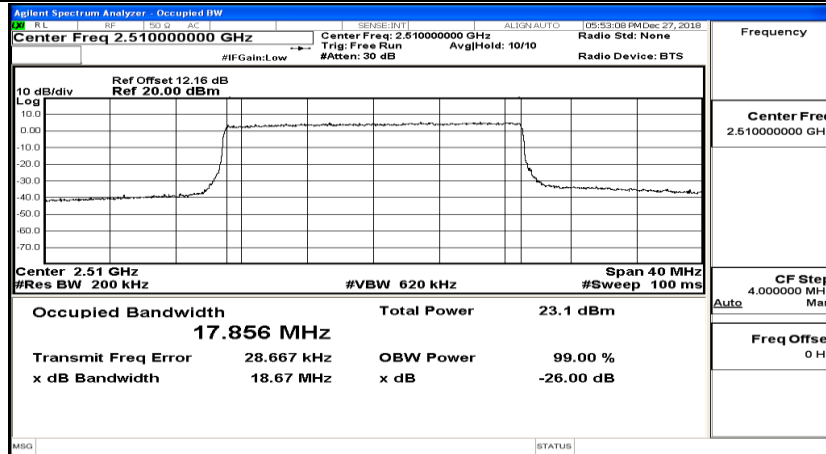
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



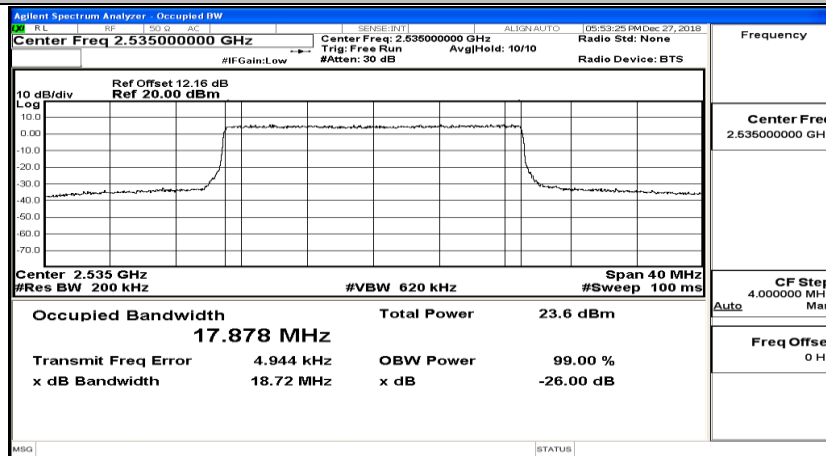
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



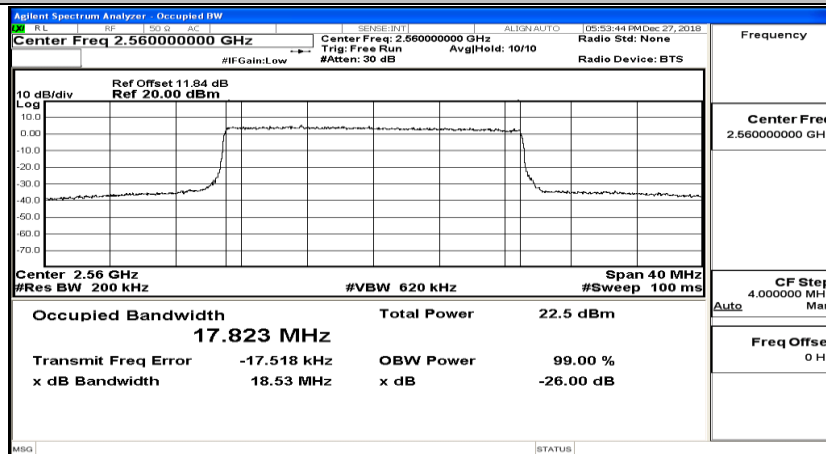
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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

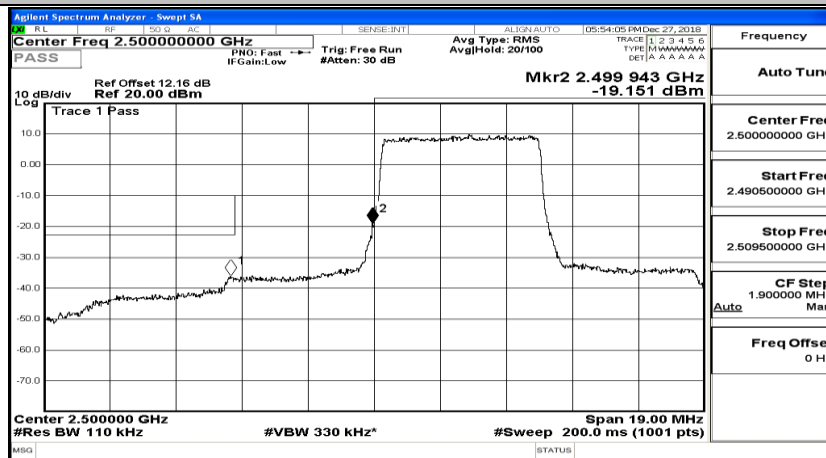


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

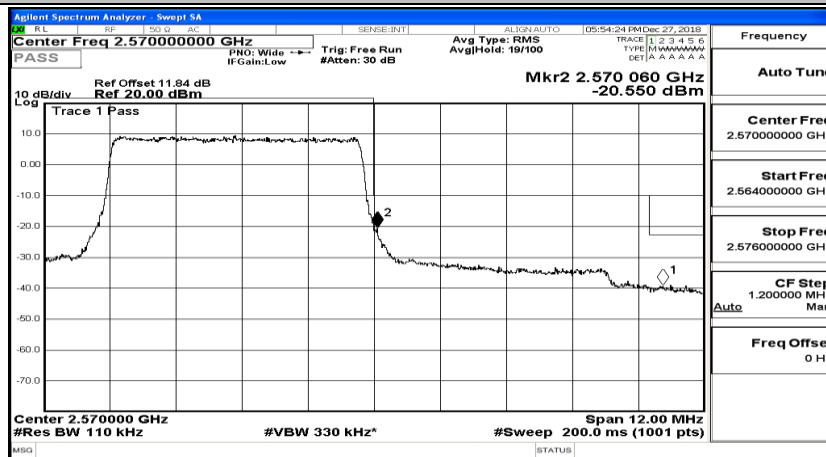


G.4 Band Edge

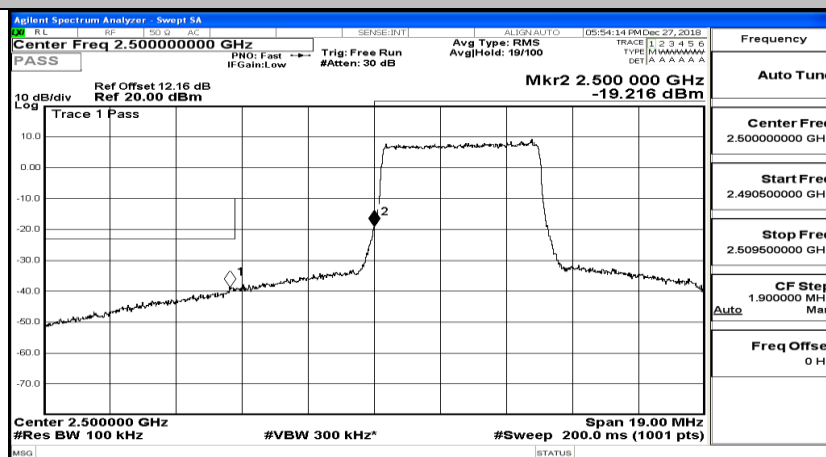
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



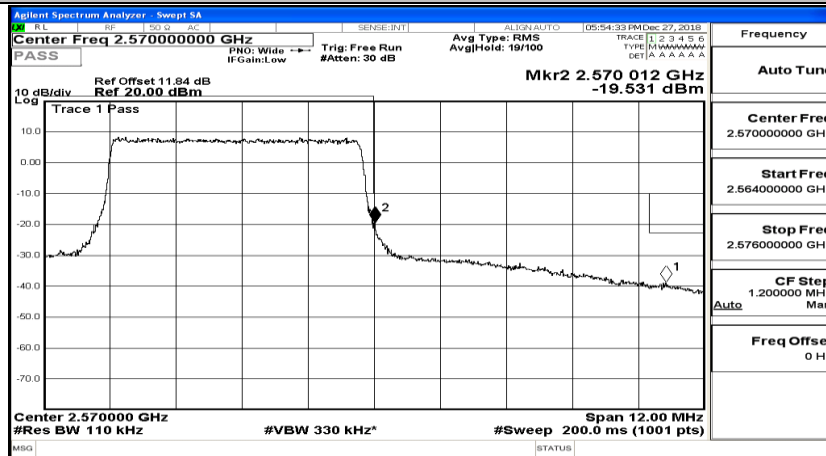
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



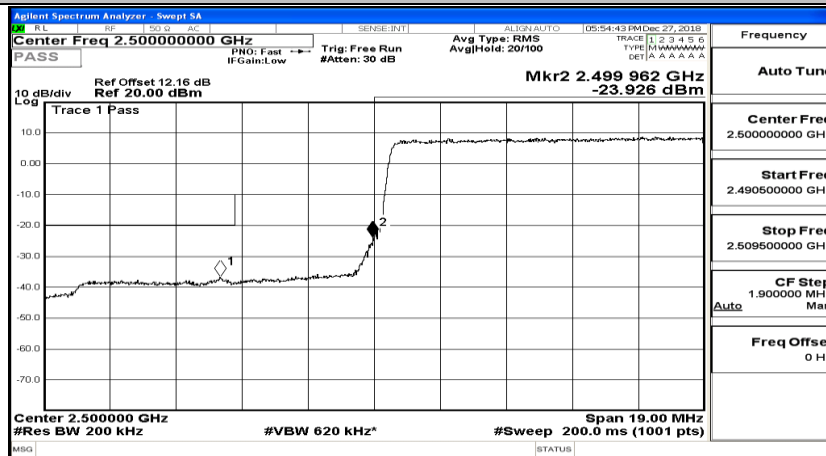
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



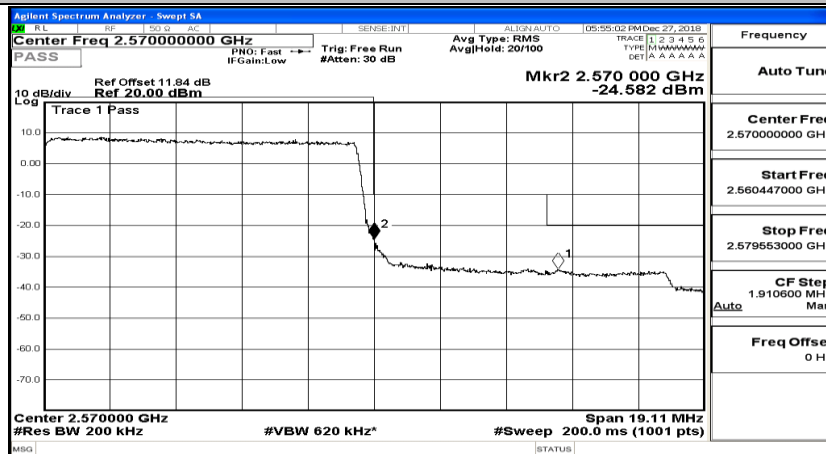
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



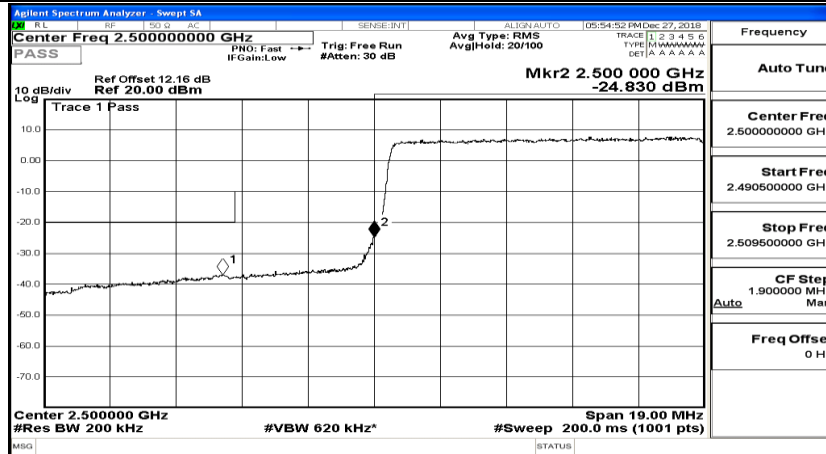
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



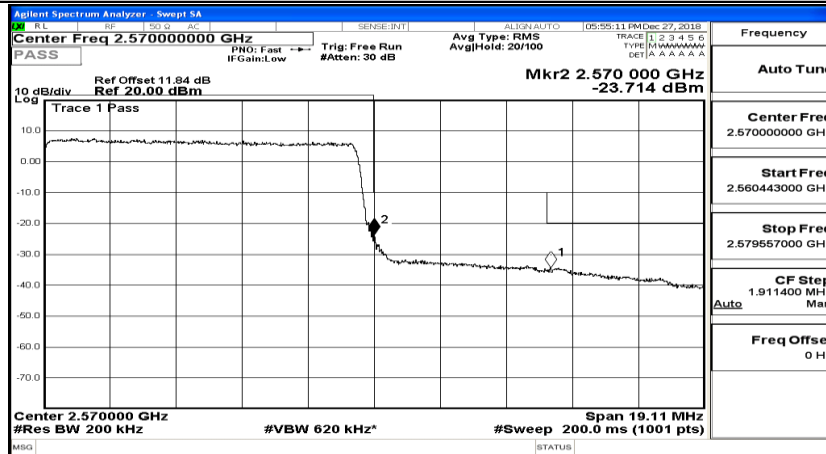
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



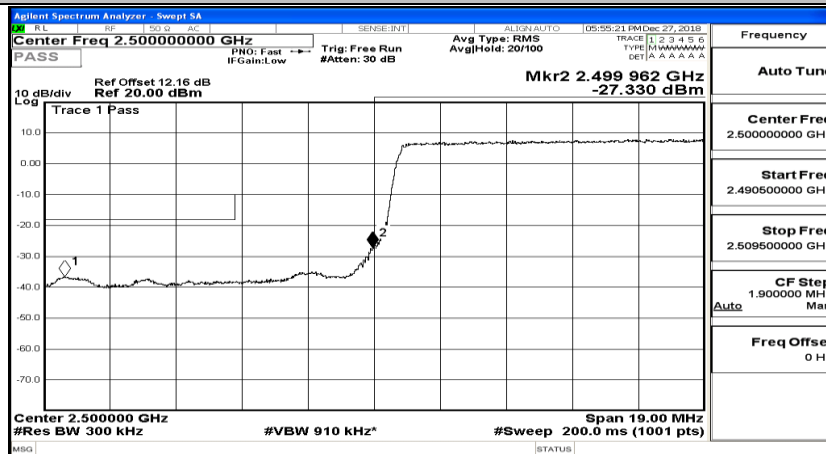
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



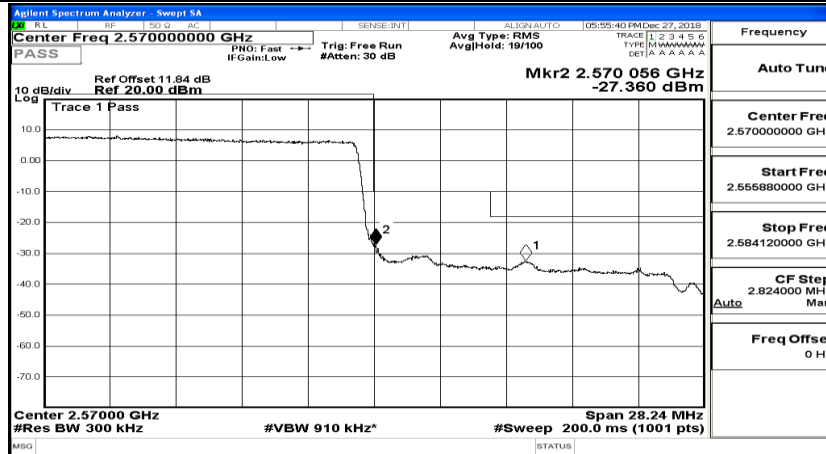
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



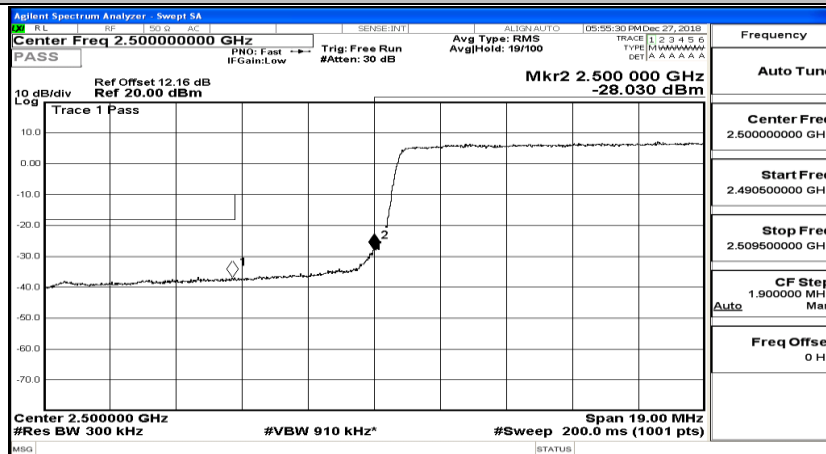
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



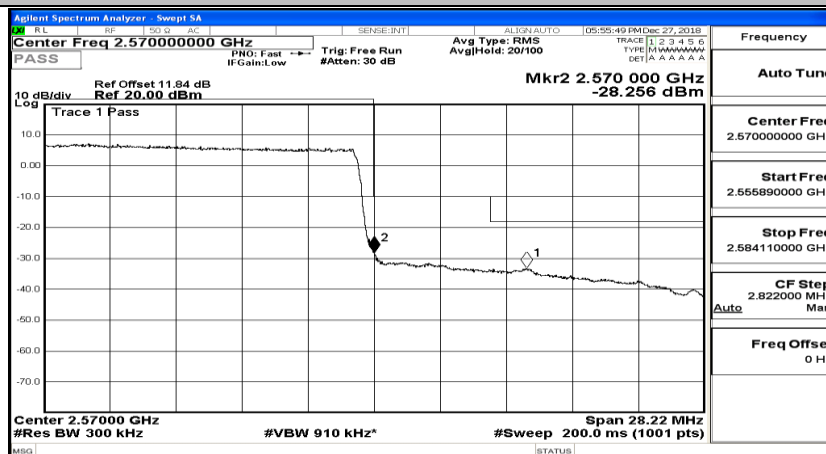
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



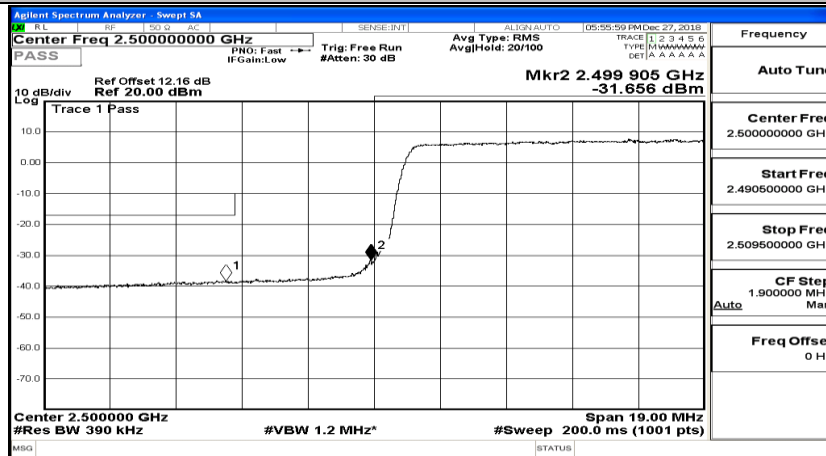
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



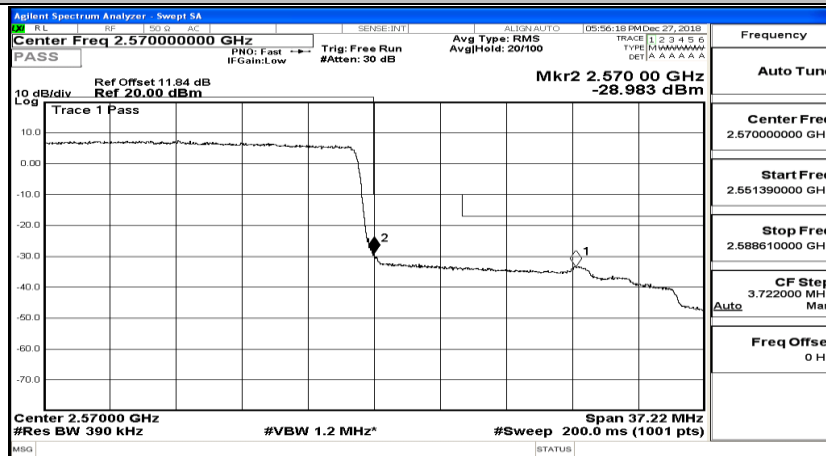
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



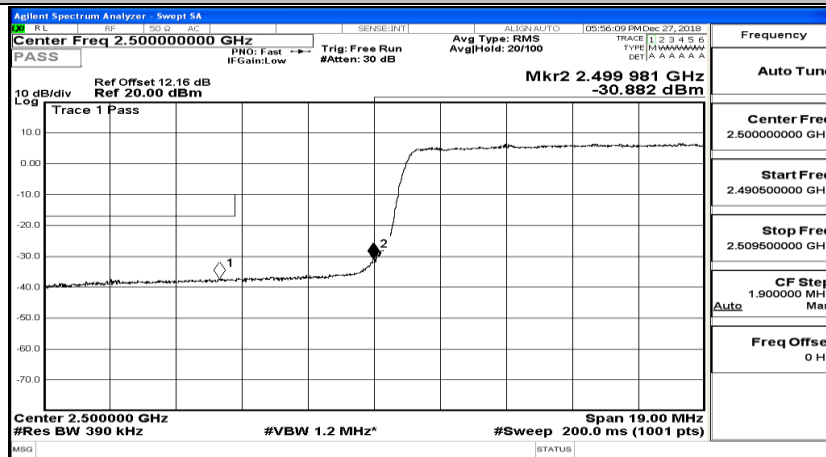
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



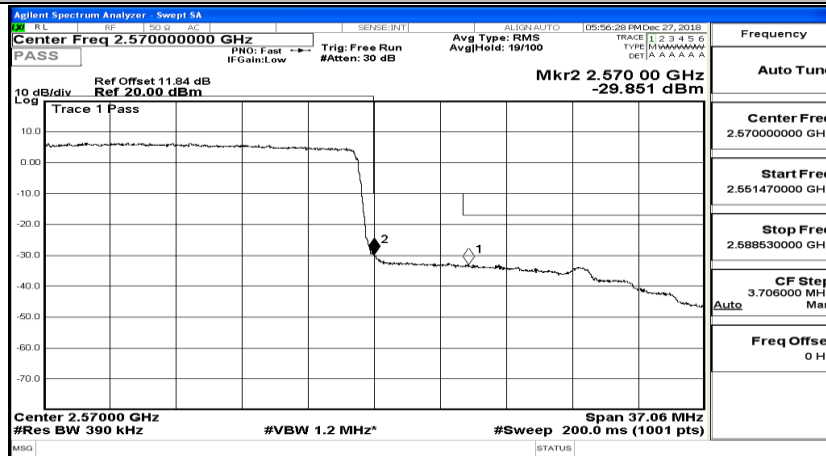
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM

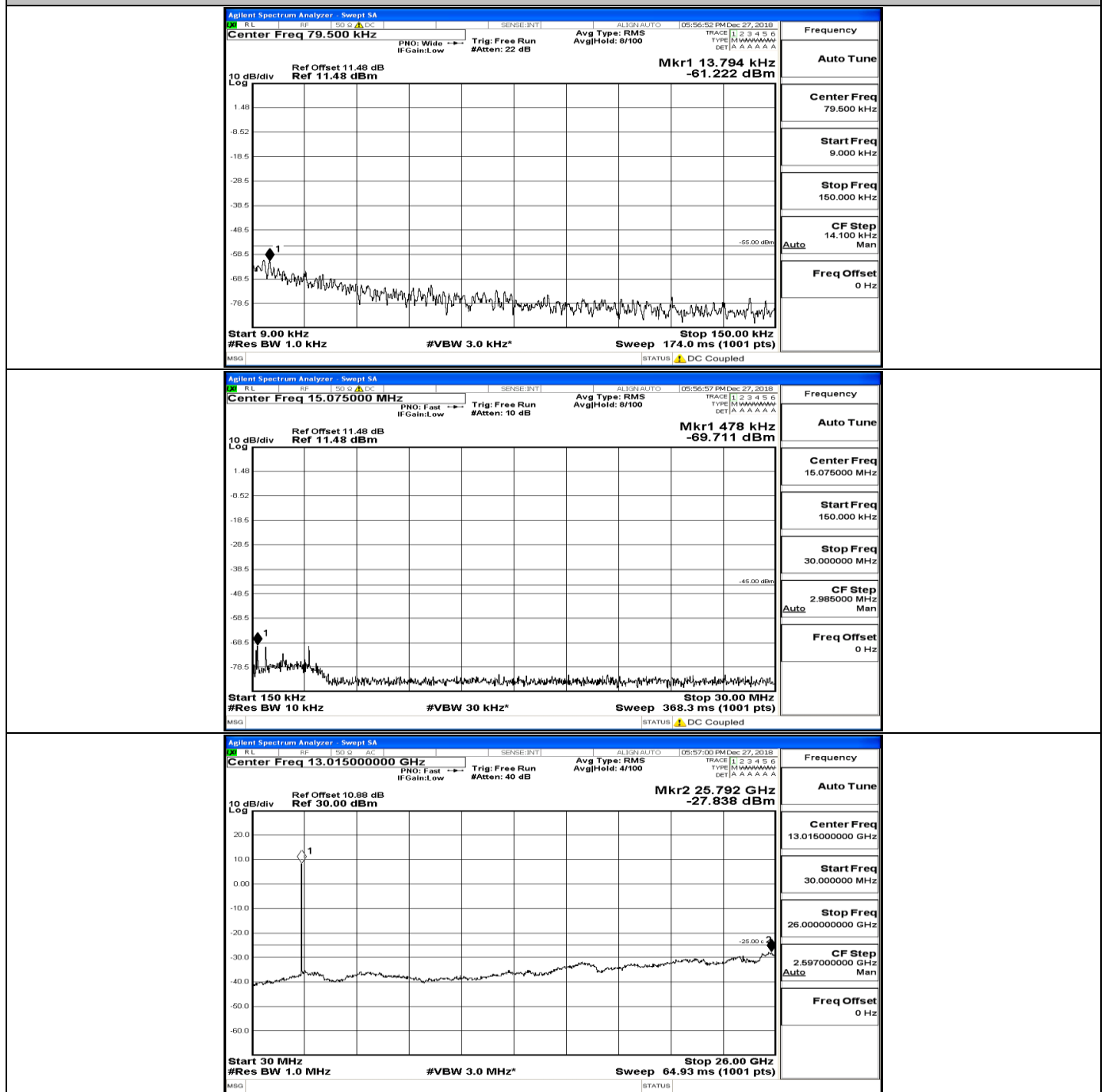


Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



G.5 Conducted Spurious Emission

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK

