

Appendix G: Test Data for E-UTRA Band 7

Product Name: Mobile Radio

Trade Mark: ANYSECU

Test Model: W2plus

Environmental Conditions

Temperature:	24.3° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Wang.Chuang

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	23.08	22.04	PASS
		1	12	22.51	21.84	PASS
		1	24	22.04	21.45	PASS
		12	0	21.92	20.88	PASS
		12	6	21.85	20.78	PASS
		12	13	21.68	20.70	PASS
		25	0	21.74	20.66	PASS
	MCH	1	0	23.57	22.47	PASS
		1	12	23.66	22.51	PASS
		1	24	23.48	22.29	PASS
		12	0	22.56	21.61	PASS
		12	6	22.56	21.60	PASS
		12	13	22.49	21.52	PASS
		25	0	22.52	21.55	PASS
	HCH	1	0	21.89	21.13	PASS
		1	12	22.27	21.47	PASS
		1	24	22.51	21.66	PASS
		12	0	21.05	20.07	PASS
		12	6	21.34	20.40	PASS
		12	13	21.59	20.66	PASS
		25	0	21.46	20.46	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	22.96	21.95	PASS
		1	24	21.44	20.83	PASS
		1	49	20.21	19.64	PASS
		25	0	21.69	20.60	PASS
		25	12	20.87	20.09	PASS
		25	25	20.11	19.19	PASS
		50	0	21.01	20.21	PASS
	MCH	1	0	23.36	22.62	PASS
		1	24	23.45	22.67	PASS
		1	49	23.17	22.38	PASS
		25	0	22.51	21.53	PASS
		25	12	22.51	21.52	PASS
		25	25	22.41	21.42	PASS
		50	0	22.46	21.49	PASS
	HCH	1	0	20.21	19.62	PASS
		1	24	21.23	20.61	PASS
		1	49	22.47	21.92	PASS
		25	0	19.64	18.64	PASS
		25	12	20.34	19.33	PASS
		25	25	21.26	20.30	PASS
		50	0	20.49	19.52	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	22.92	21.94	PASS
		1	37	20.55	20.00	PASS
		1	74	20.32	19.60	PASS
		37	0	21.27	20.48	PASS
		37	18	20.13	19.21	PASS
		37	38	19.48	18.47	PASS
		75	0	20.48	19.56	PASS
	MCH	1	0	23.25	22.48	PASS
		1	37	23.56	22.72	PASS
		1	74	22.91	22.28	PASS
		37	0	22.63	21.55	PASS
		37	18	22.65	21.56	PASS
		37	38	22.53	21.44	PASS
		75	0	22.65	21.56	PASS
	HCH	1	0	20.90	20.25	PASS
		1	37	20.31	19.62	PASS
		1	74	22.57	21.83	PASS
		37	0	19.39	18.49	PASS
		37	18	19.50	18.61	PASS
		37	38	20.72	19.76	PASS
		75	0	20.09	19.09	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.02	22.03	PASS
		1	49	20.38	19.59	PASS
		1	99	21.83	21.06	PASS
		50	0	20.77	19.96	PASS
		50	25	19.57	18.53	PASS
		50	50	19.66	18.71	PASS
		100	0	20.38	19.45	PASS
	MCH	1	0	23.12	22.37	PASS
		1	49	23.60	22.72	PASS
		1	99	22.69	21.94	PASS
		50	0	22.47	21.47	PASS
		50	25	22.49	21.50	PASS
		50	50	22.31	21.29	PASS
		100	0	22.36	21.38	PASS
	HCH	1	0	22.13	21.61	PASS
		1	49	20.22	19.54	PASS
		1	99	22.63	21.95	PASS
		50	0	20.10	19.18	PASS
		50	25	19.41	18.55	PASS
		50	50	20.34	19.36	PASS
		100	0	20.19	19.20	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	3.66	<13	PASS
	MCH	4.69	<13	PASS
	HCH	5.21	<13	PASS
16QAM	LCH	4.47	<13	PASS
	MCH	5.46	<13	PASS
	HCH	5.99	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.62	<13	PASS
	MCH	4.83	<13	PASS
	HCH	5.58	<13	PASS
16QAM	LCH	5.22	<13	PASS
	MCH	5.56	<13	PASS
	HCH	6.28	<13	PASS

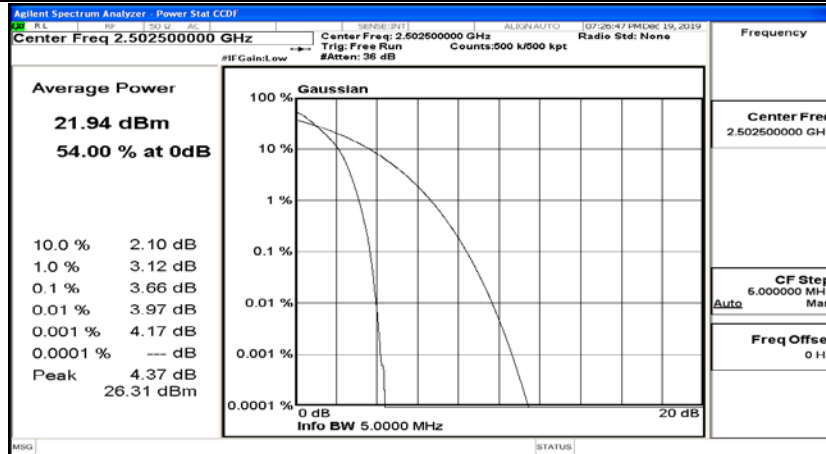
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.11	<13	PASS
	MCH	4.94	<13	PASS
	HCH	5.1	<13	PASS
16QAM	LCH	6.15	<13	PASS
	MCH	6.05	<13	PASS
	HCH	6.28	<13	PASS

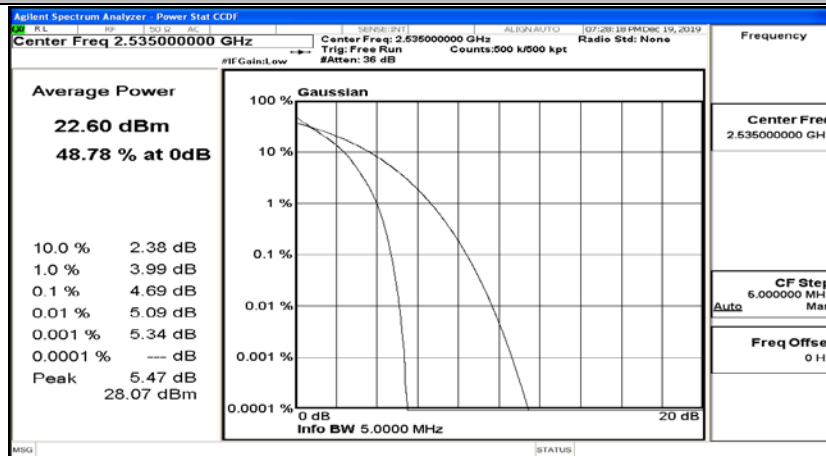
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.75	<13	PASS
	MCH	5.69	<13	PASS
	HCH	5.8	<13	PASS
16QAM	LCH	6.77	<13	PASS
	MCH	6.69	<13	PASS
	HCH	6.69	<13	PASS

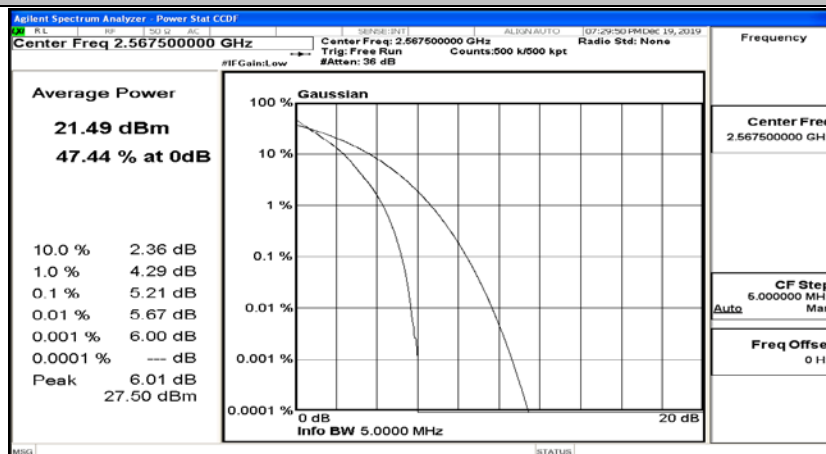
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



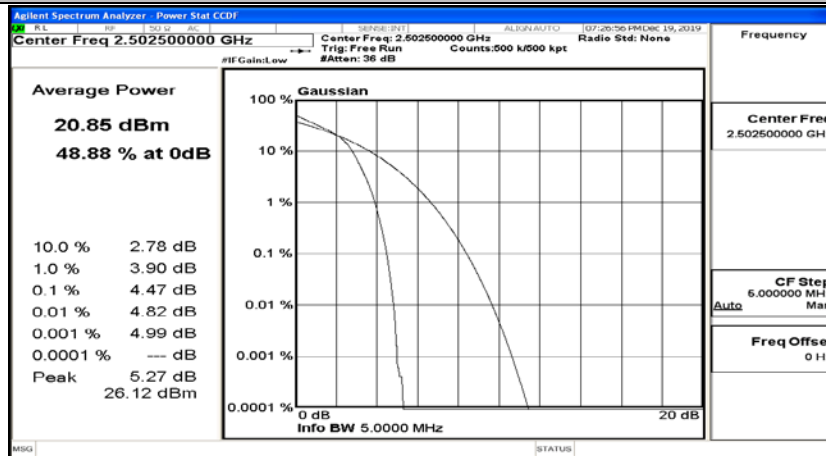
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



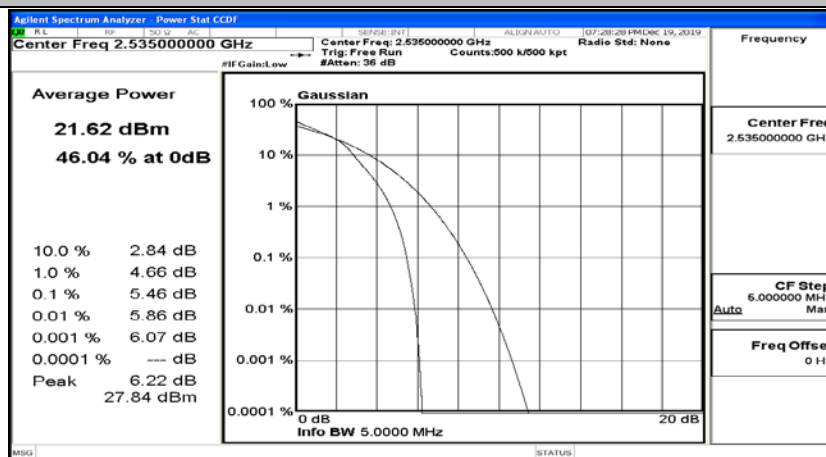
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



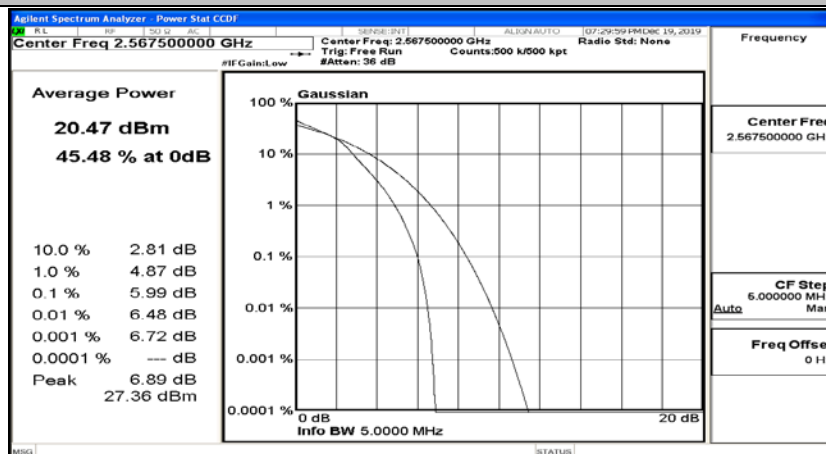
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



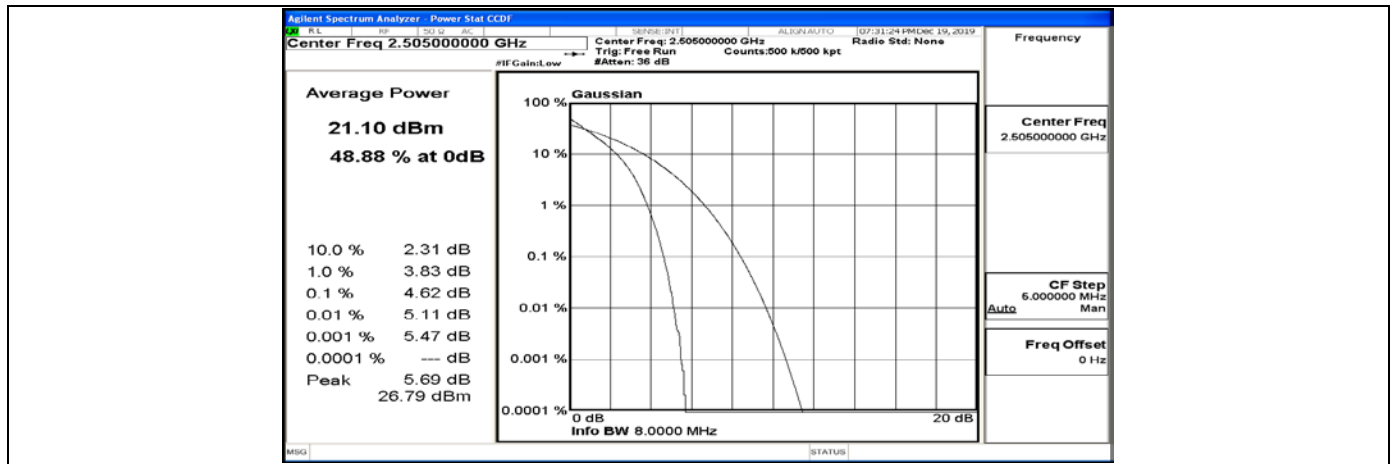
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



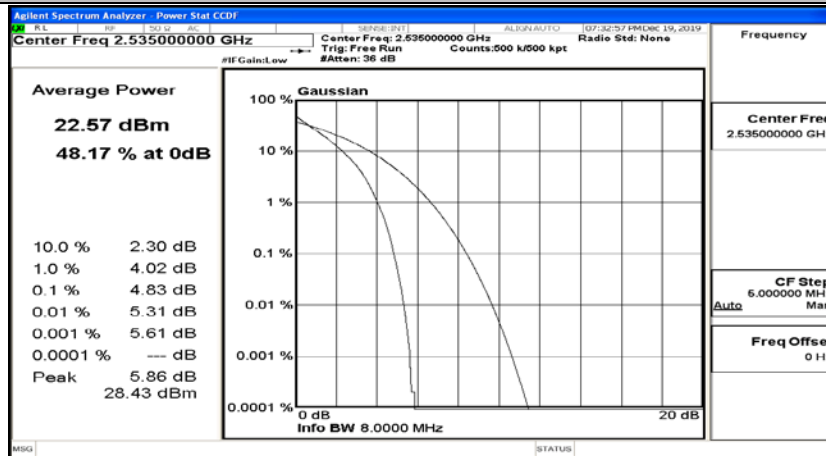
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



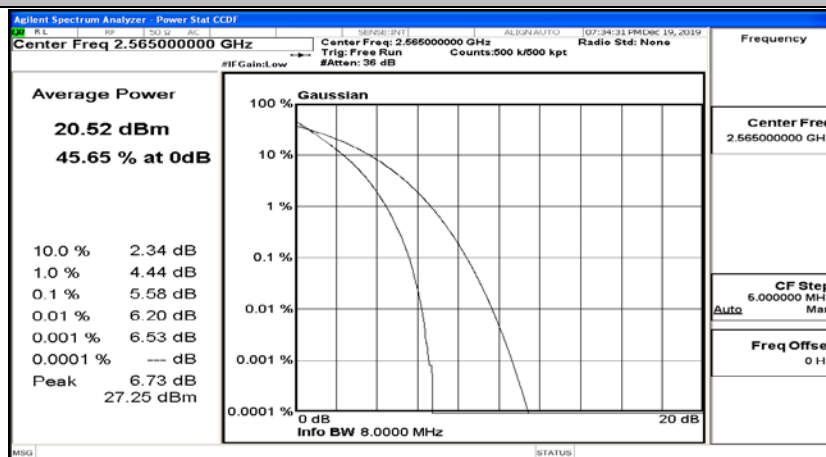
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



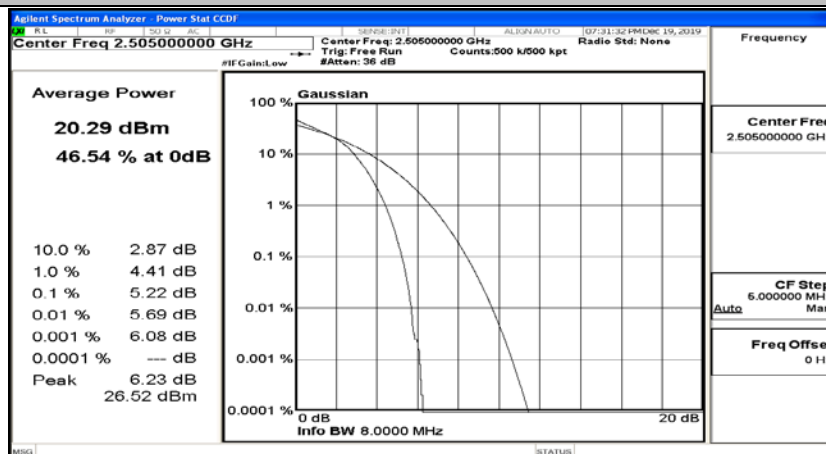
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



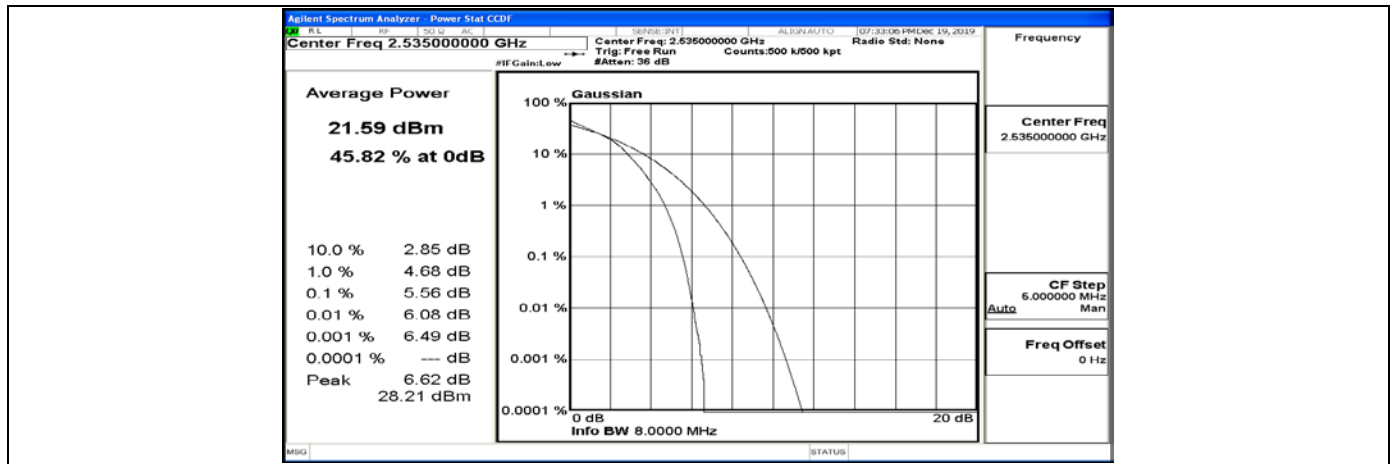
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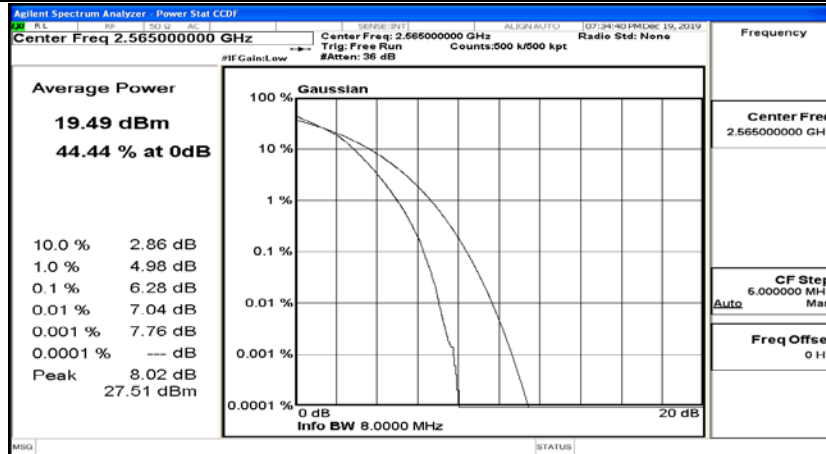
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



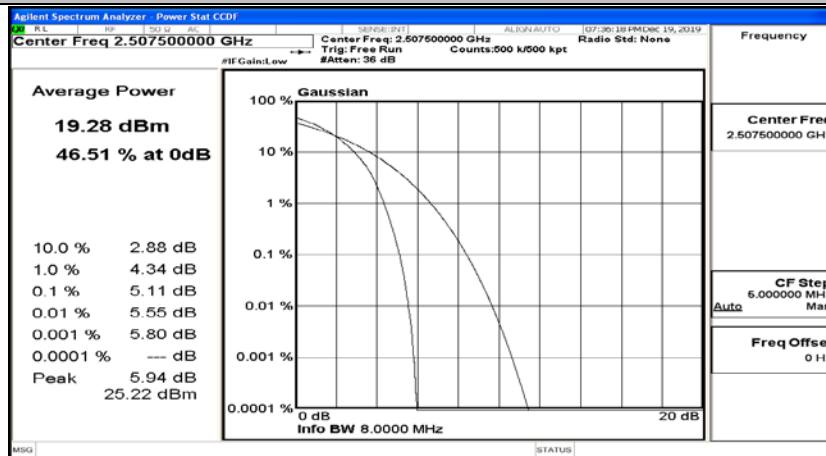
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



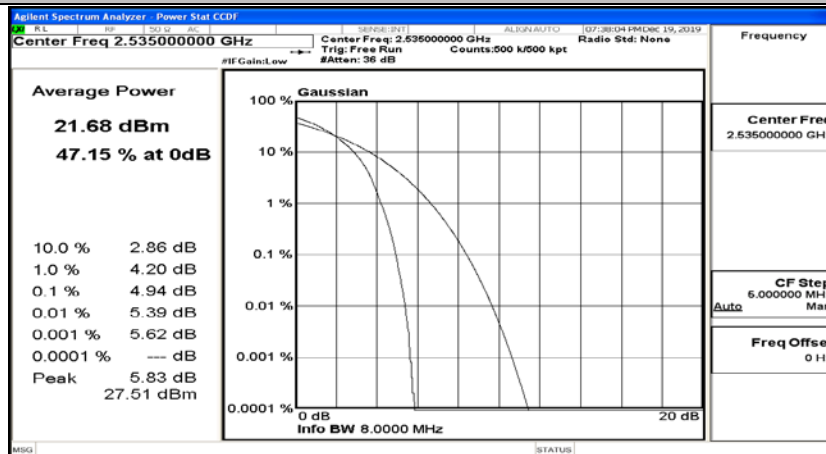
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



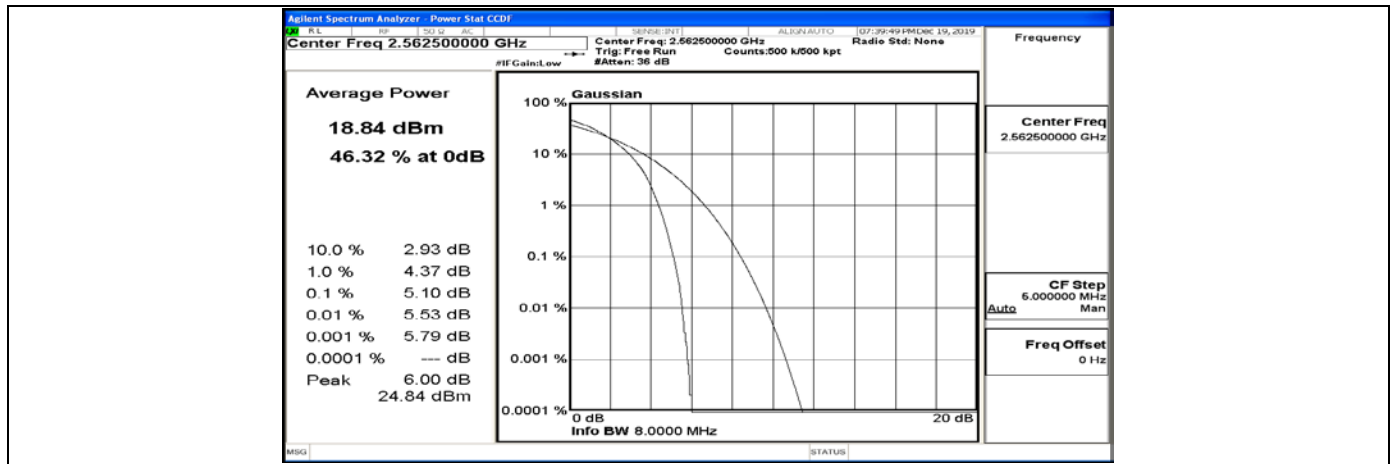
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



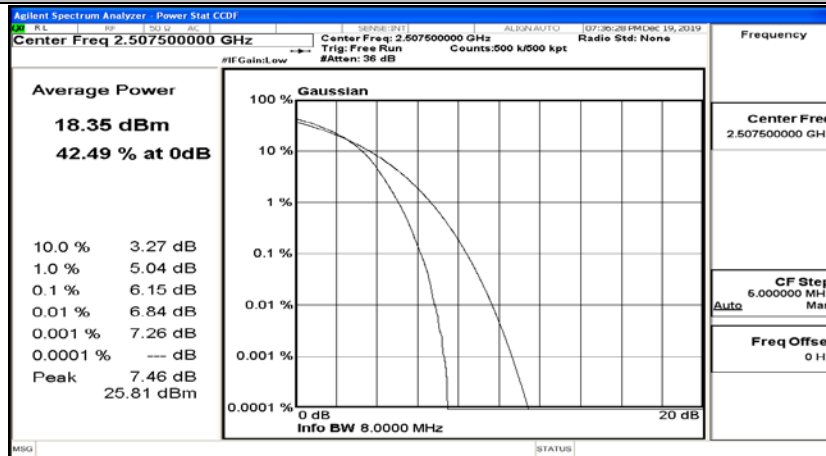
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



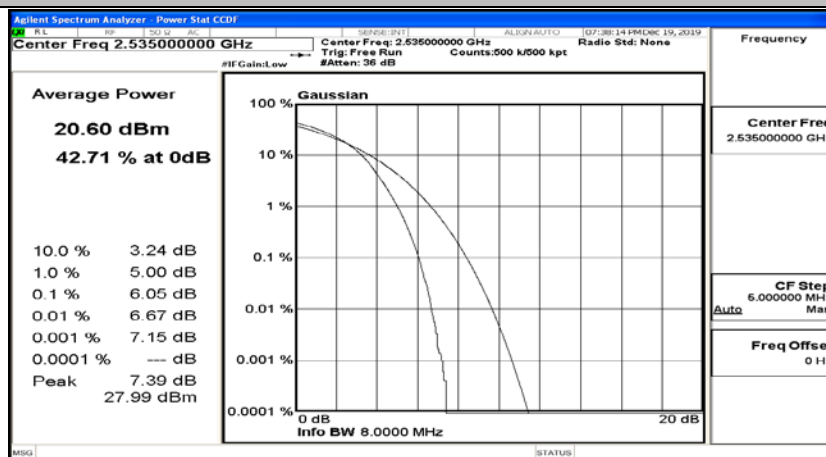
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



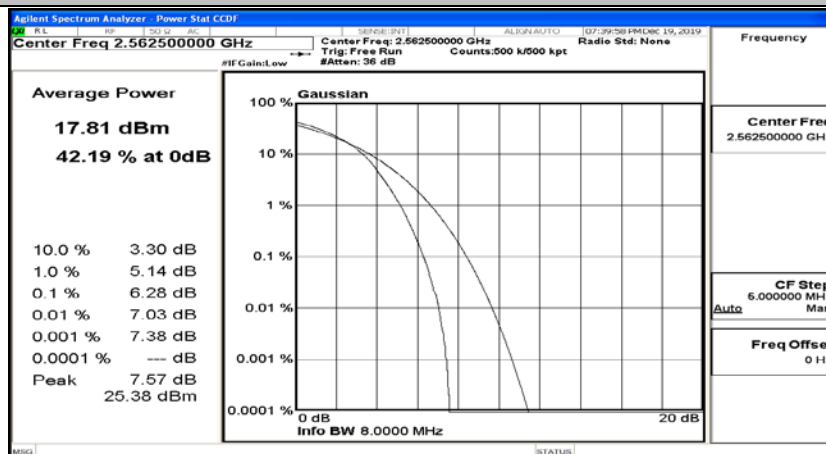
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



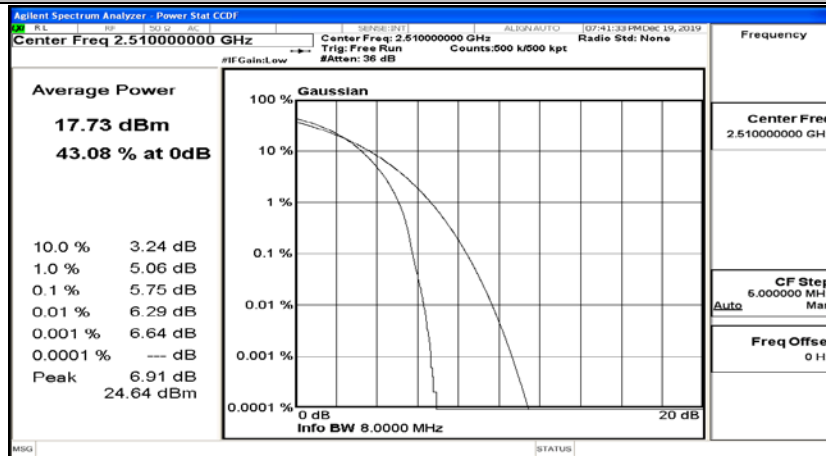
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



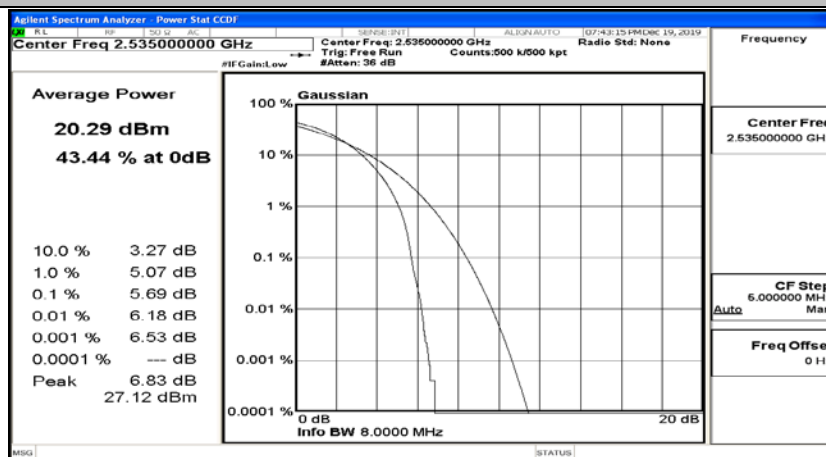
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



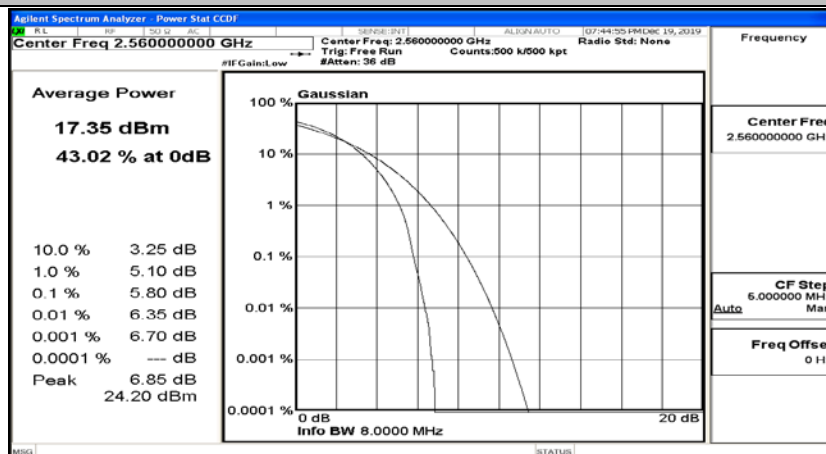
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



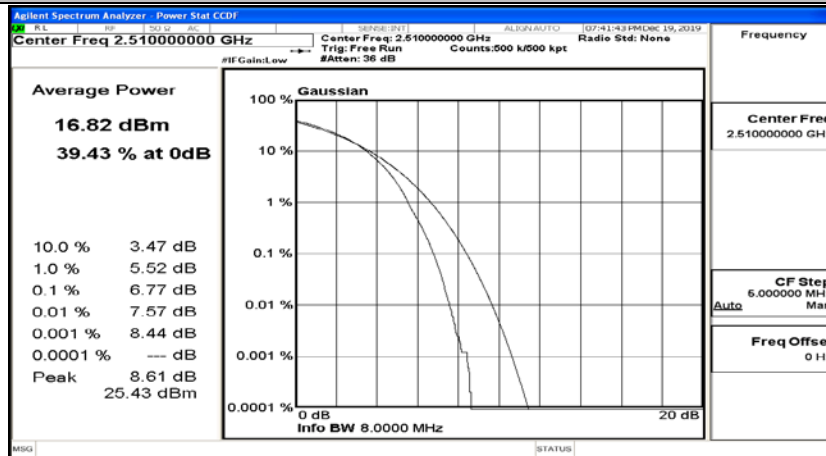
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



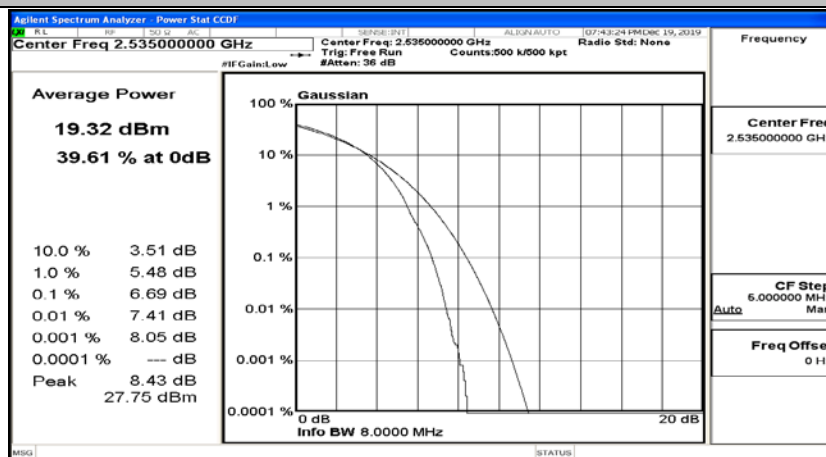
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



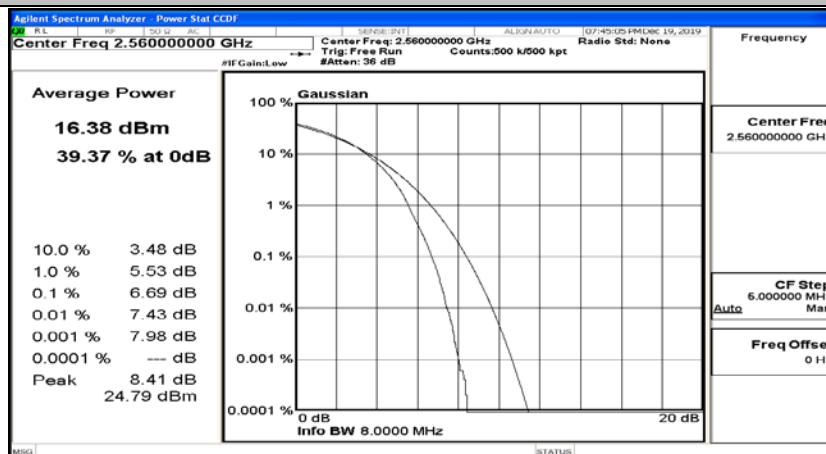
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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

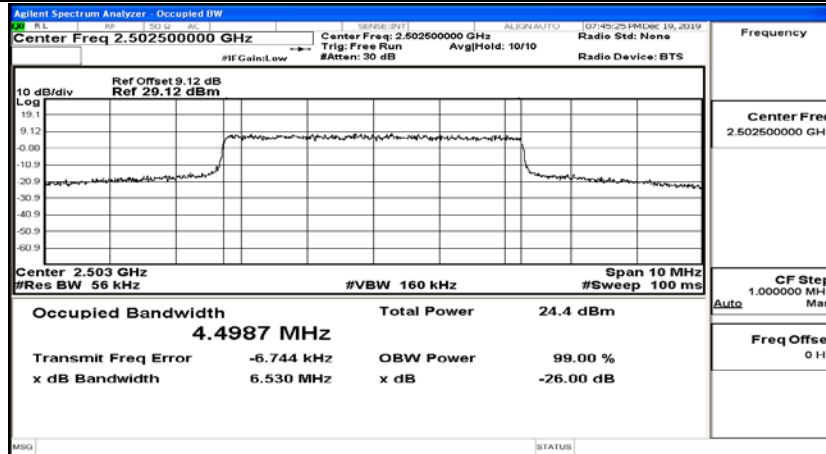
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4987	6.530	PASS
	MCH	4.4824	4.872	PASS
	HCH	4.4867	4.832	PASS
16QAM	LCH	4.4856	5.345	PASS
	MCH	4.4851	4.848	PASS
	HCH	4.4831	4.862	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9632	9.673	PASS
	MCH	8.9380	9.473	PASS
	HCH	8.9392	9.440	PASS
16QAM	LCH	8.9634	9.679	PASS
	MCH	8.9184	9.443	PASS
	HCH	8.9372	9.349	PASS

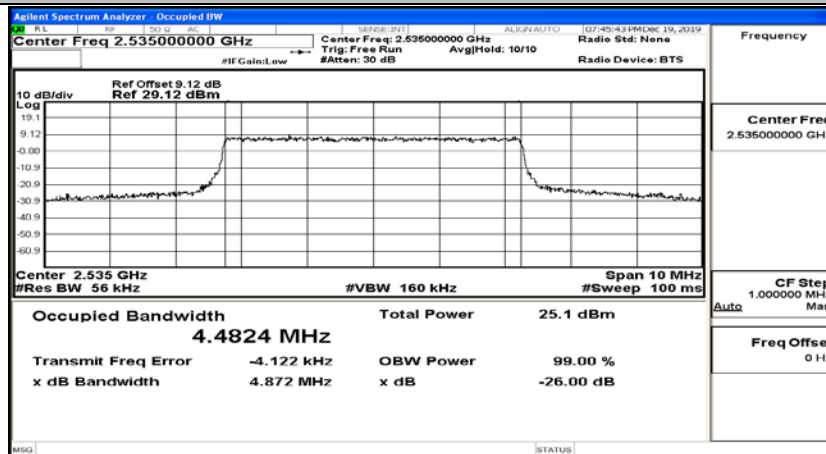
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.441	14.26	PASS
	MCH	13.403	14.32	PASS
	HCH	13.432	14.18	PASS
16QAM	LCH	13.443	14.16	PASS
	MCH	13.396	14.08	PASS
	HCH	13.418	14.05	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.917	18.69	PASS
	MCH	17.854	18.59	PASS
	HCH	17.911	18.65	PASS
16QAM	LCH	17.918	18.68	PASS
	MCH	17.845	18.63	PASS
	HCH	17.906	18.67	PASS

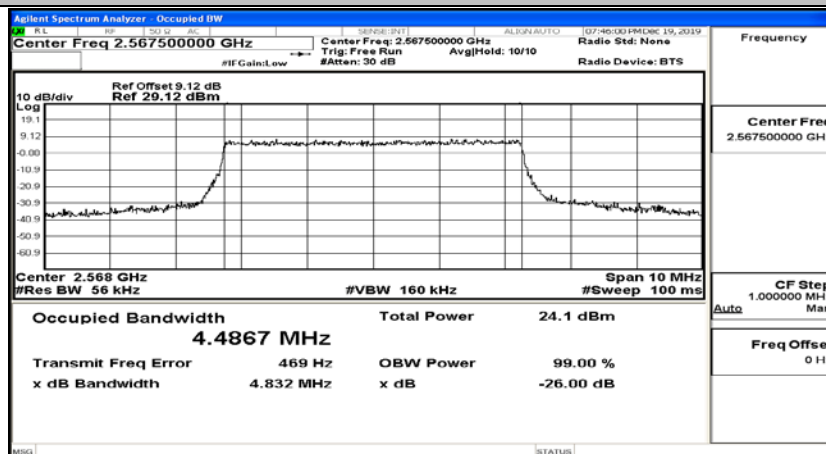
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



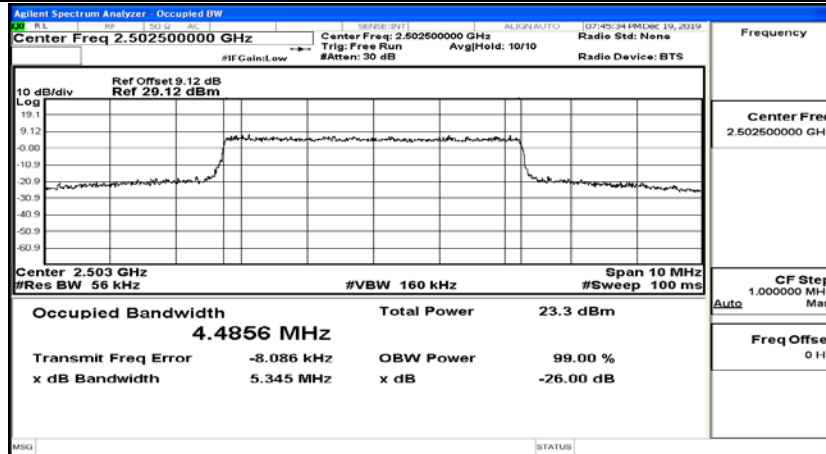
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



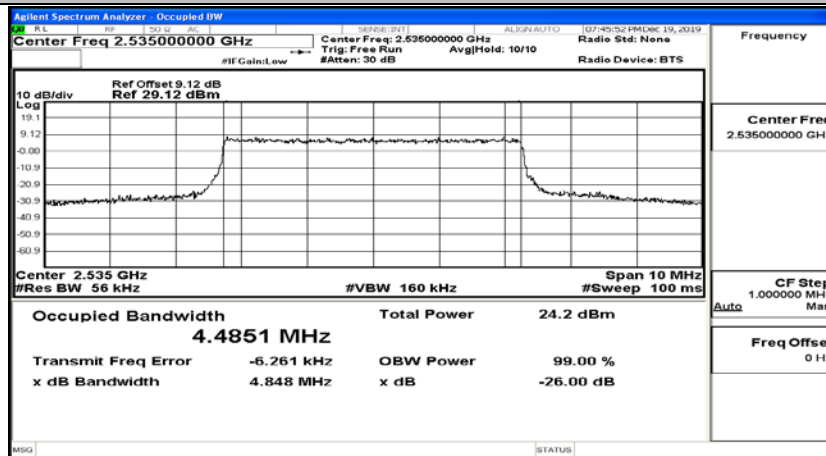
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



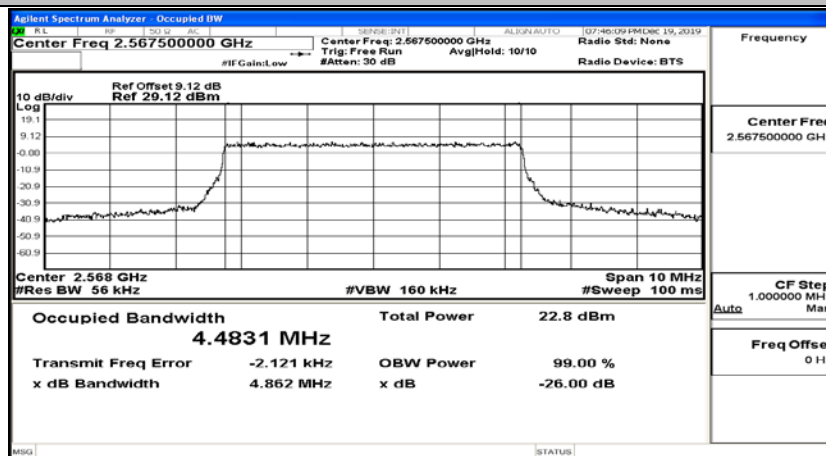
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



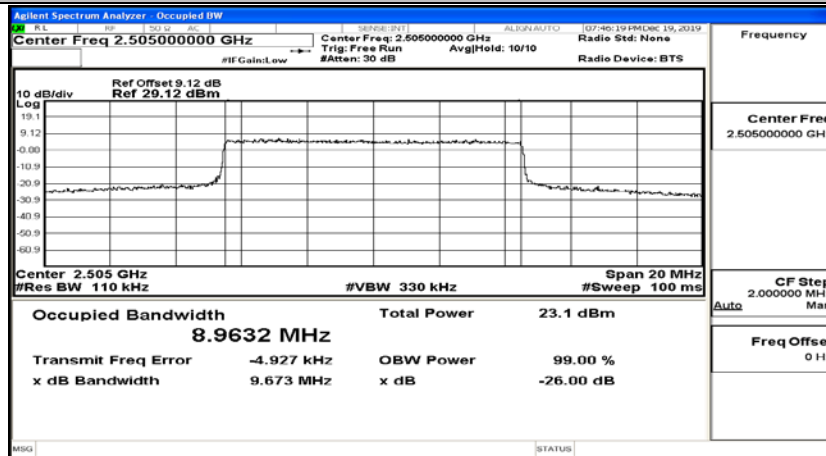
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



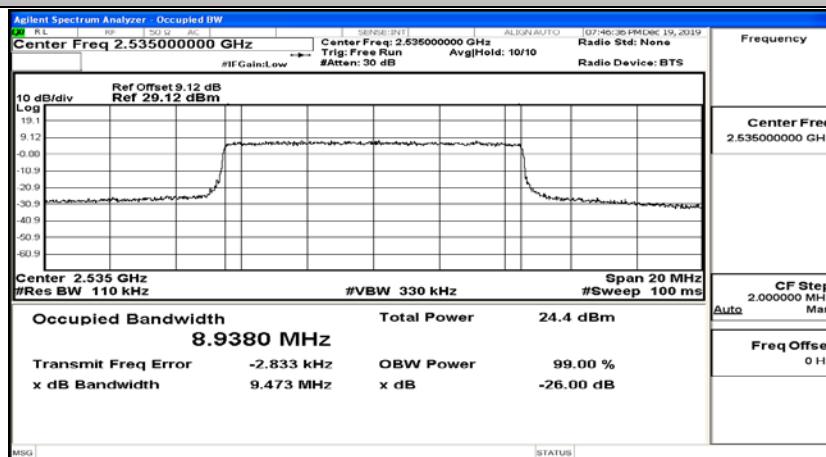
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



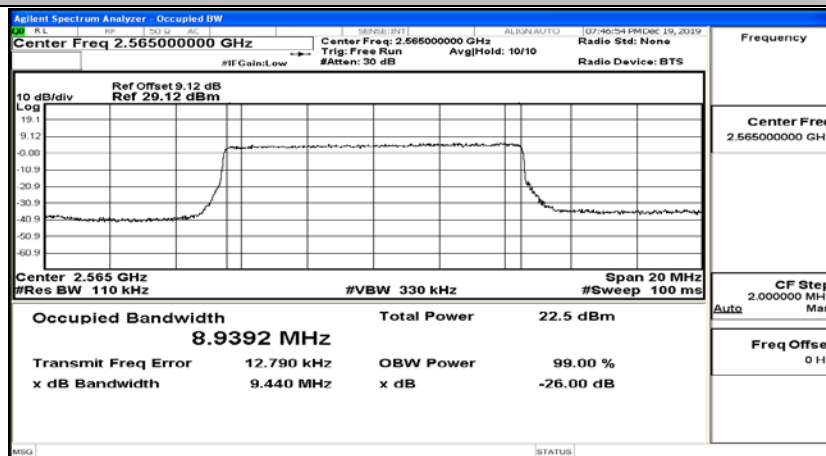
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



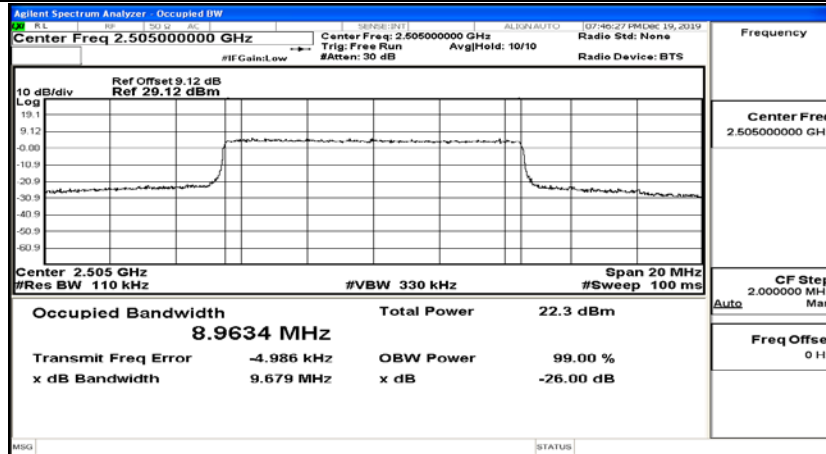
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



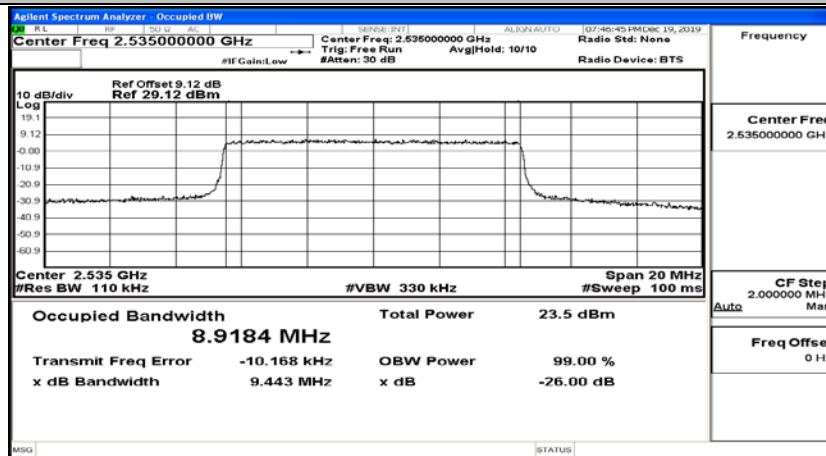
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



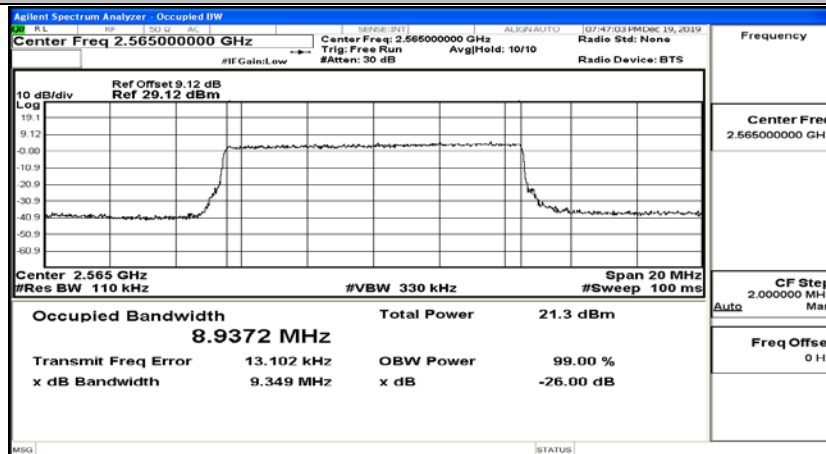
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



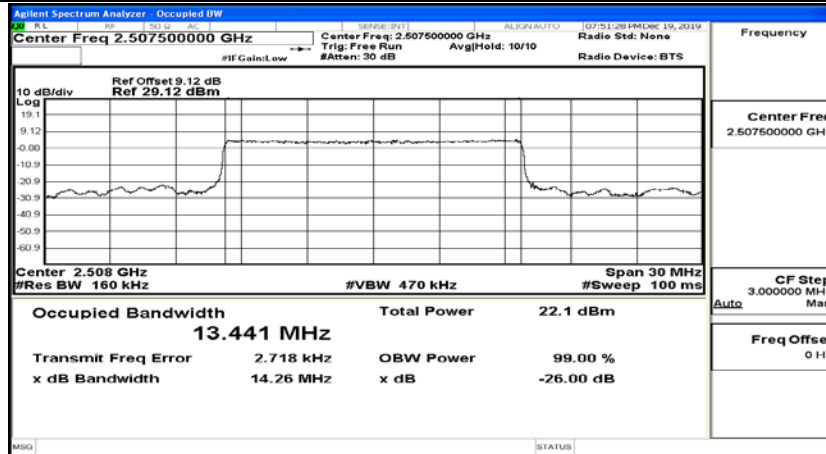
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



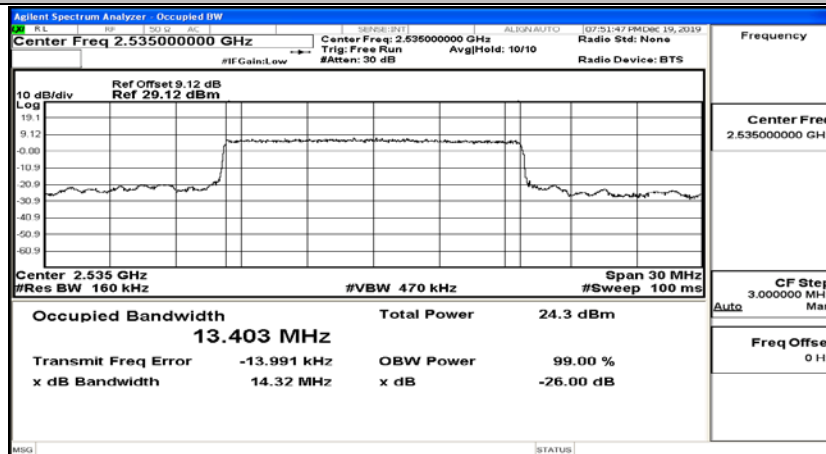
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



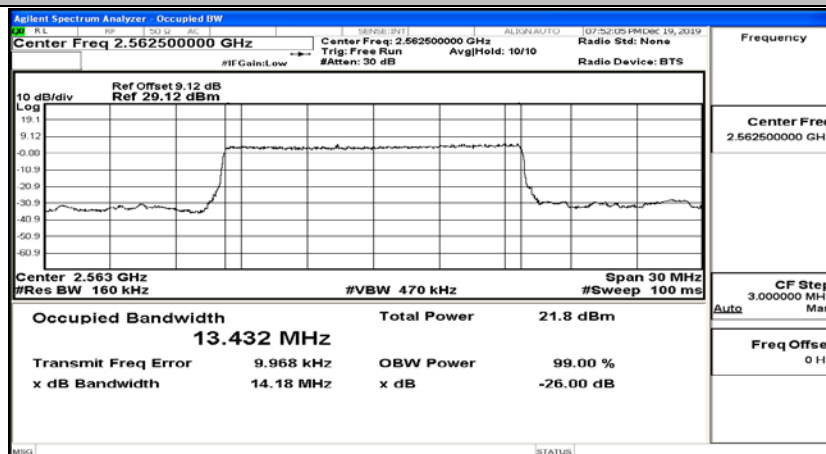
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



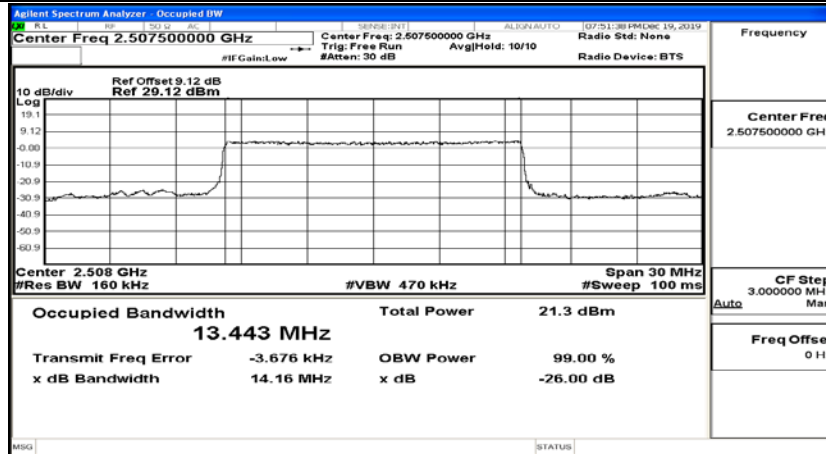
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



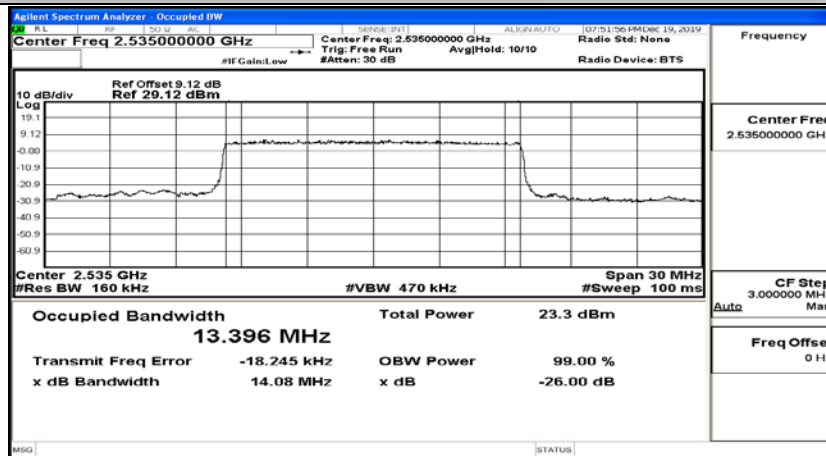
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



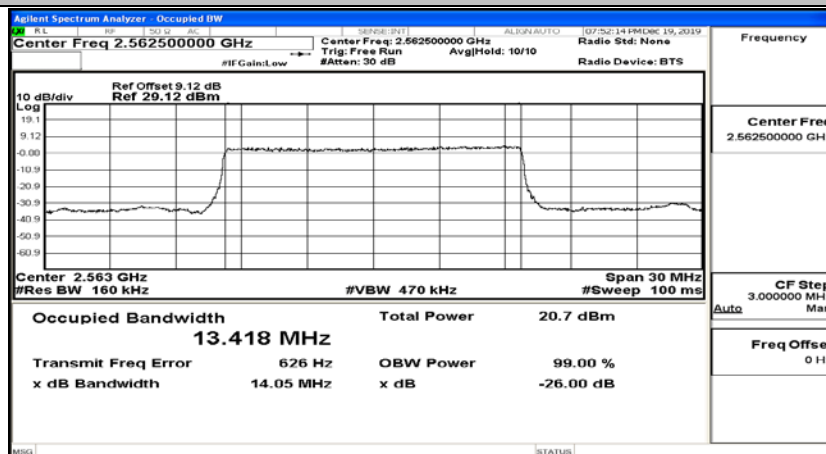
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



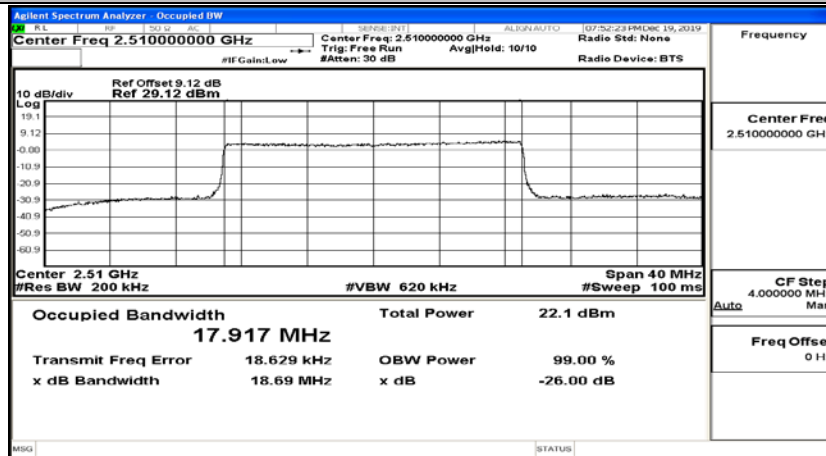
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



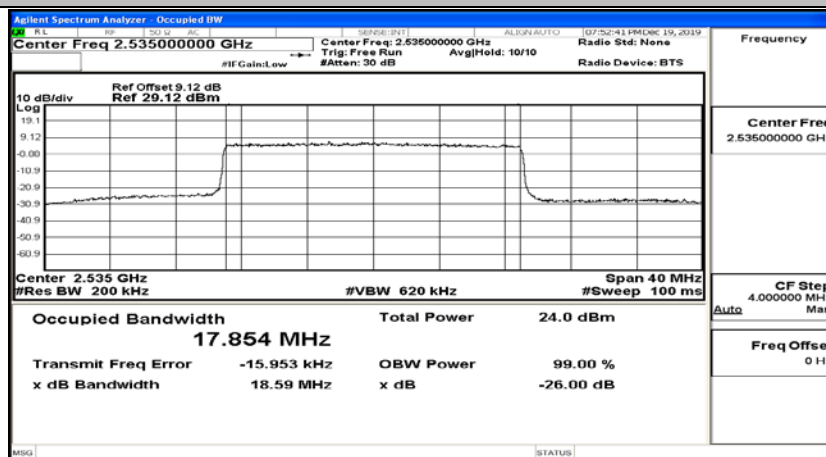
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



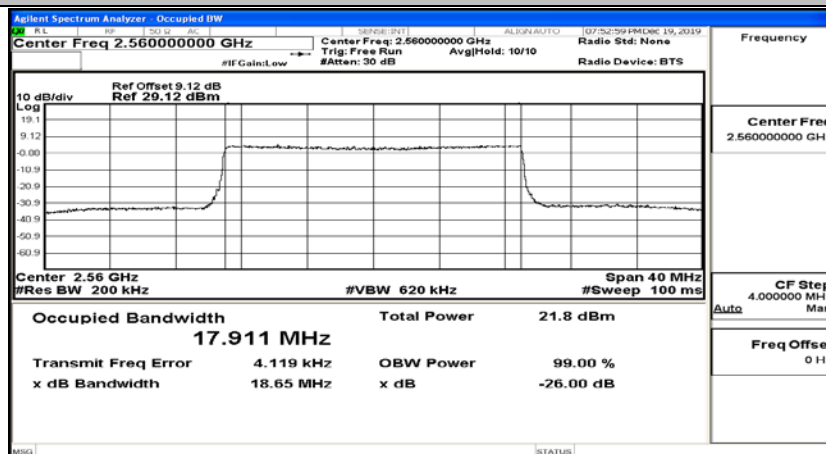
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



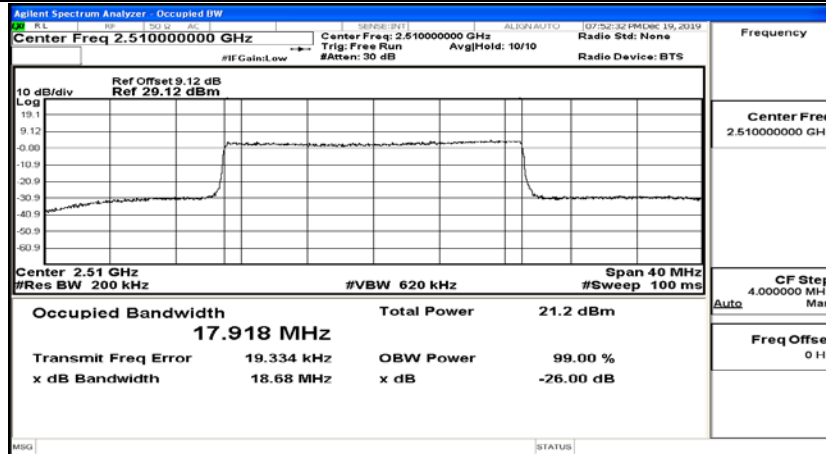
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



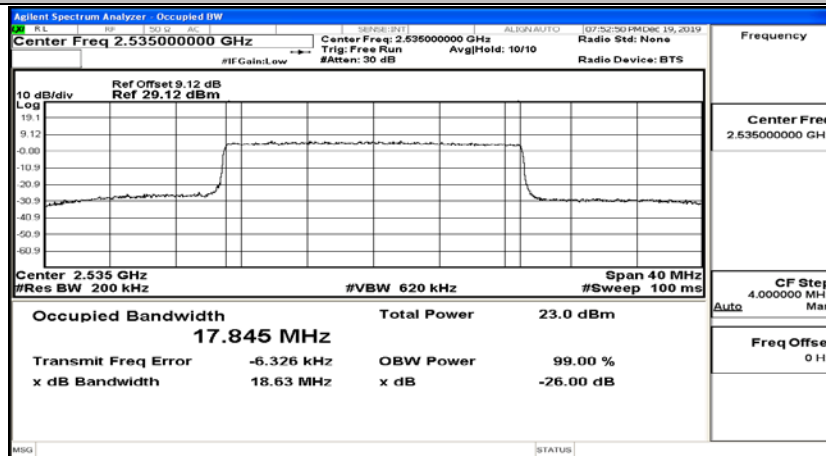
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



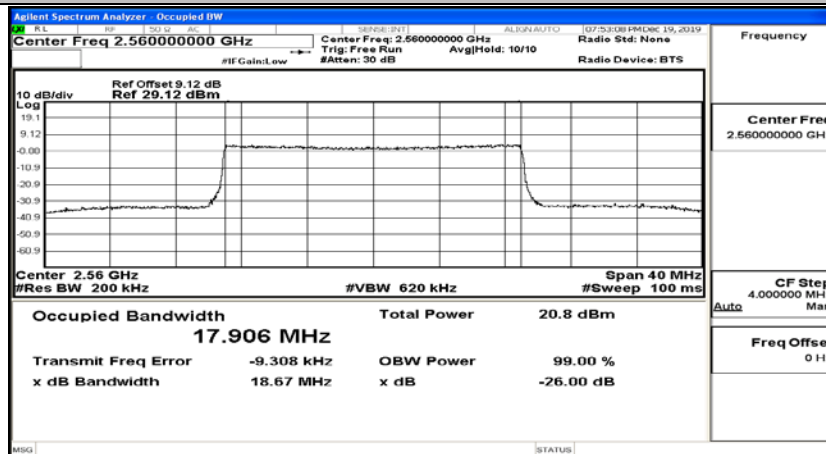
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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

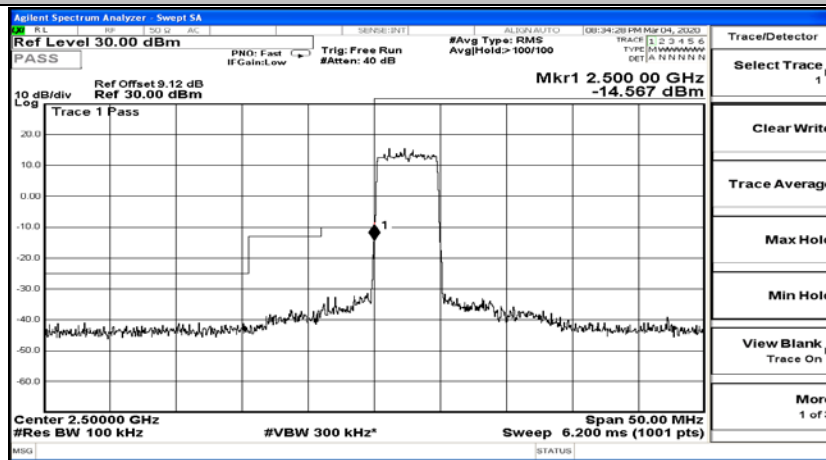


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

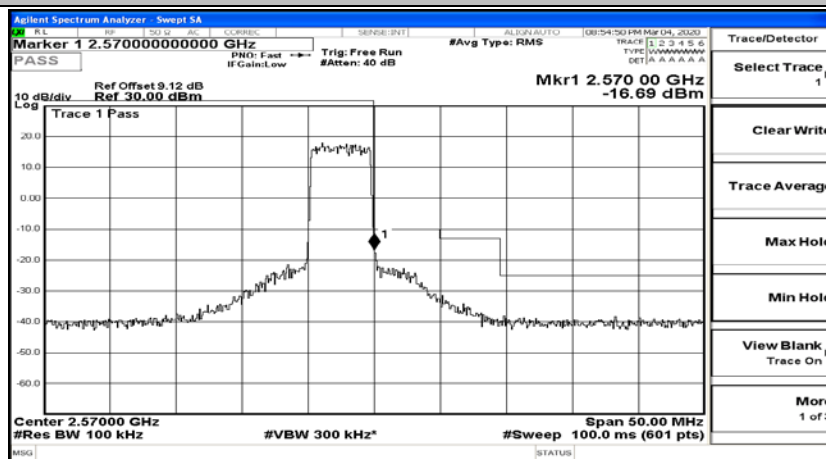


G.4 Band Edge

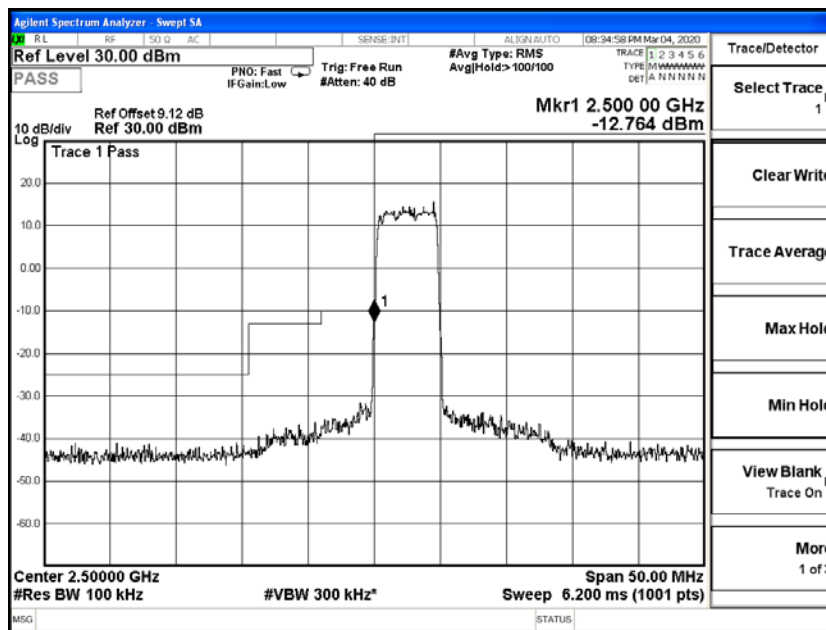
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



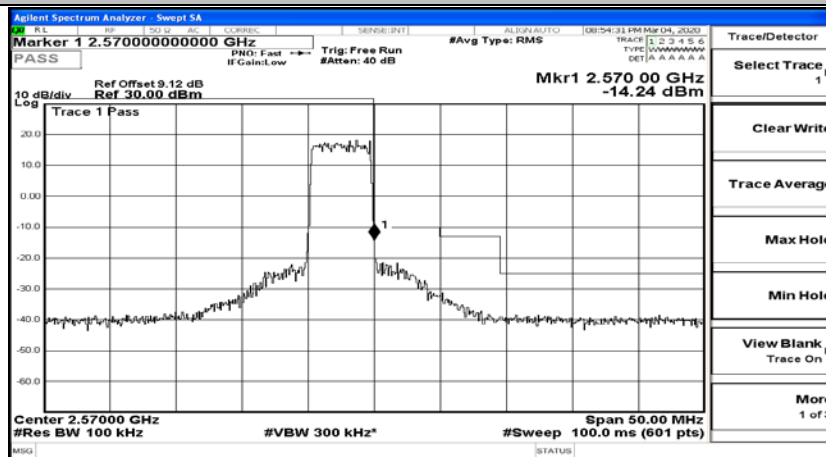
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



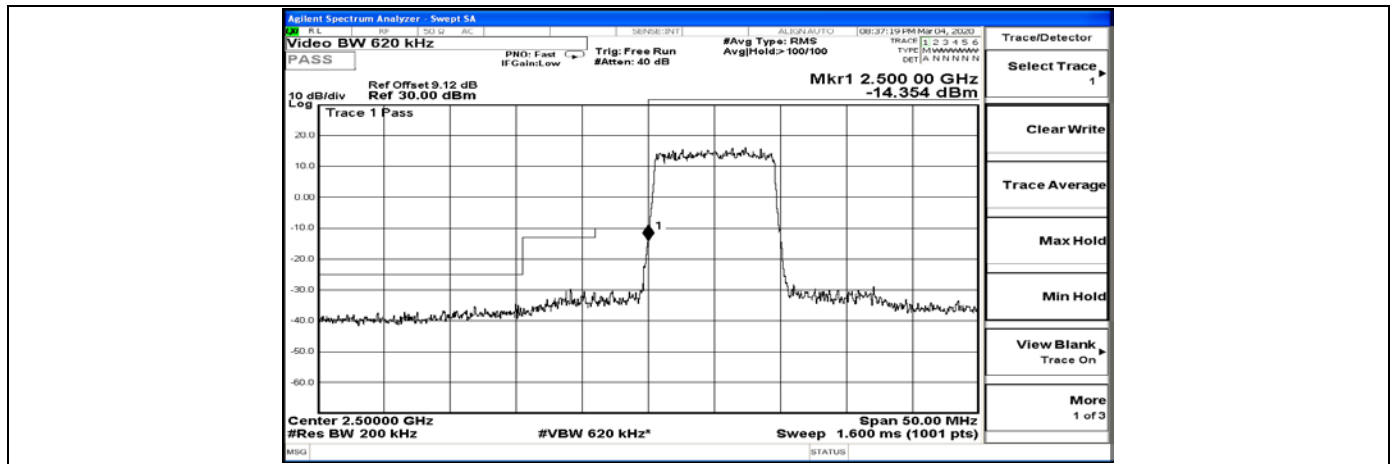
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



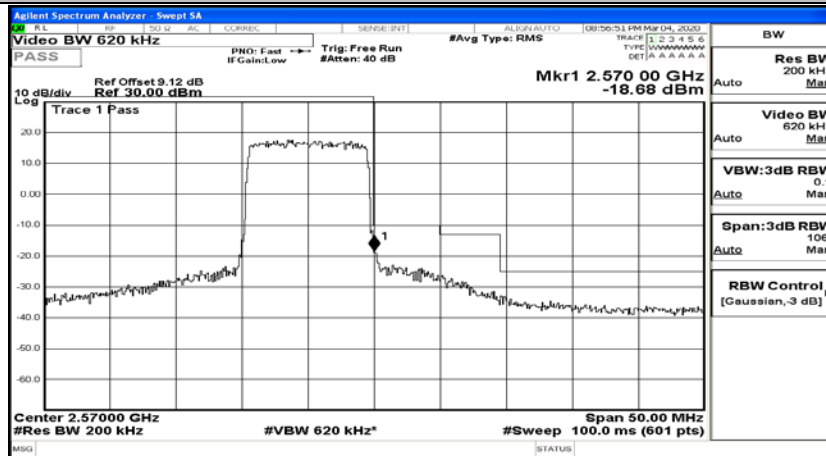
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



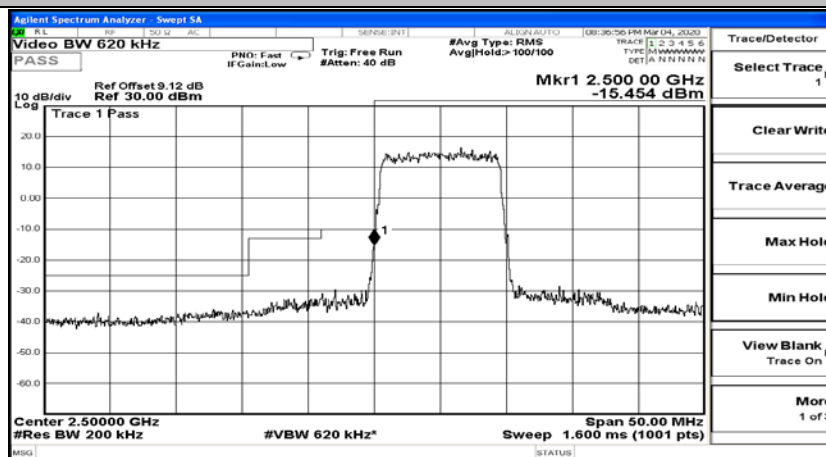
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



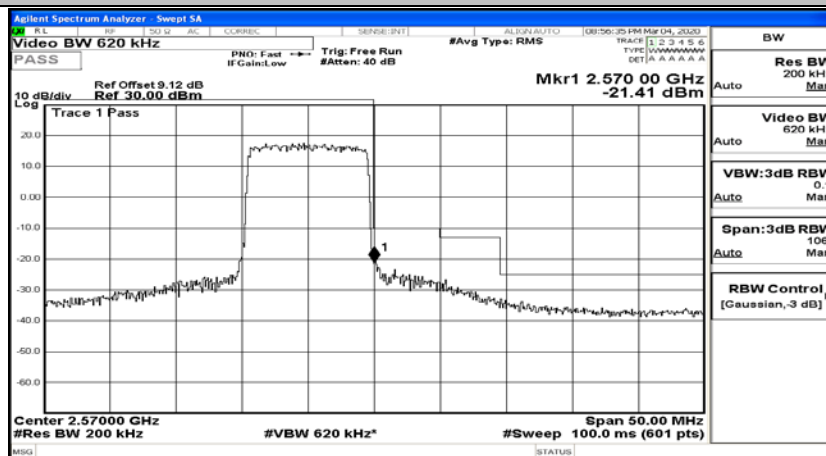
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



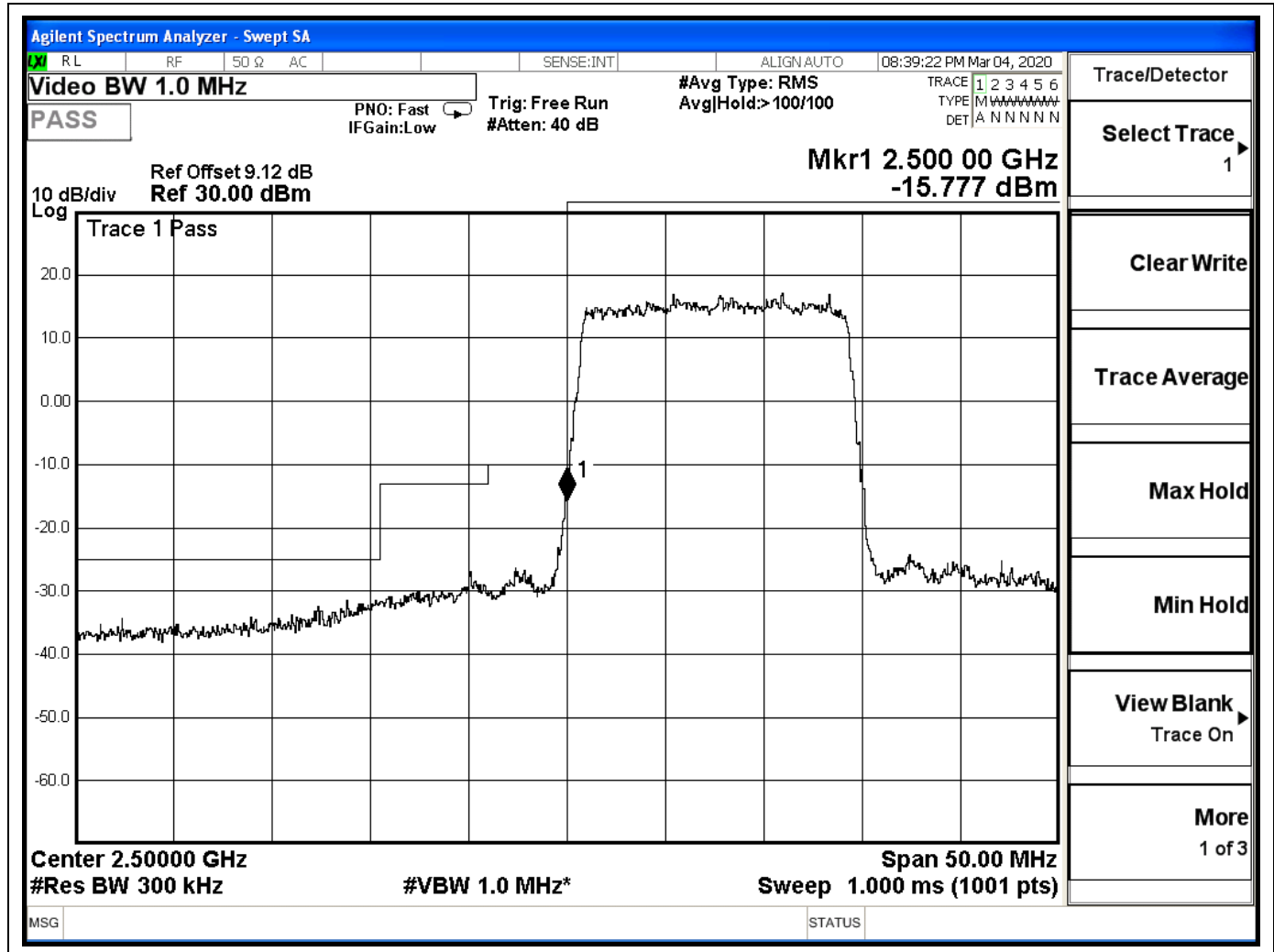
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



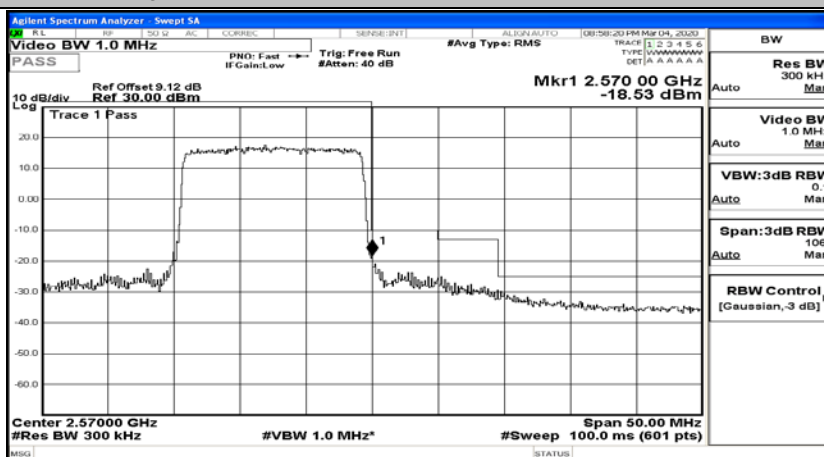
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



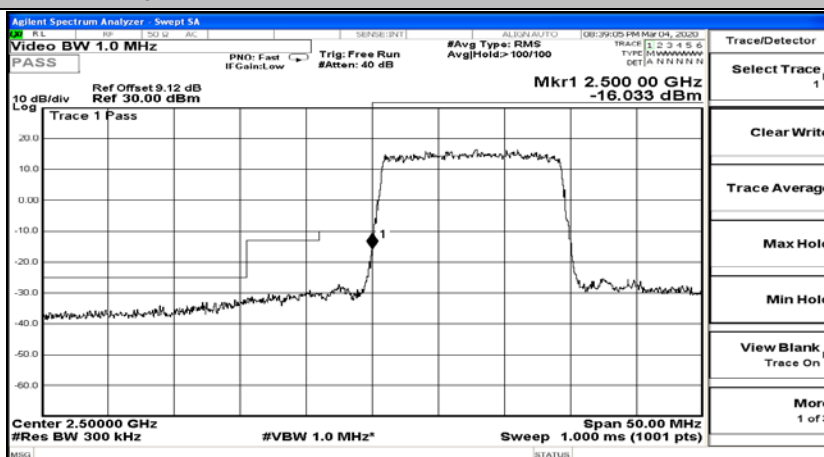
Band Edge Test Graph(s) (Channel Bandwidth: 15 MHz)_LCH_QPSK



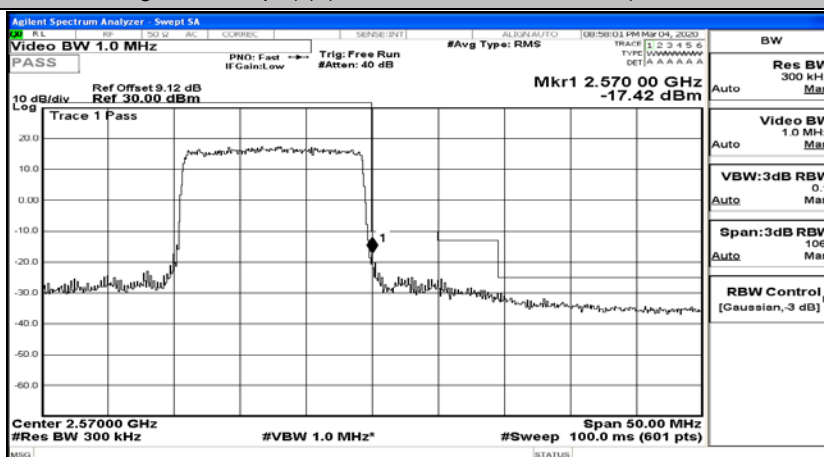
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



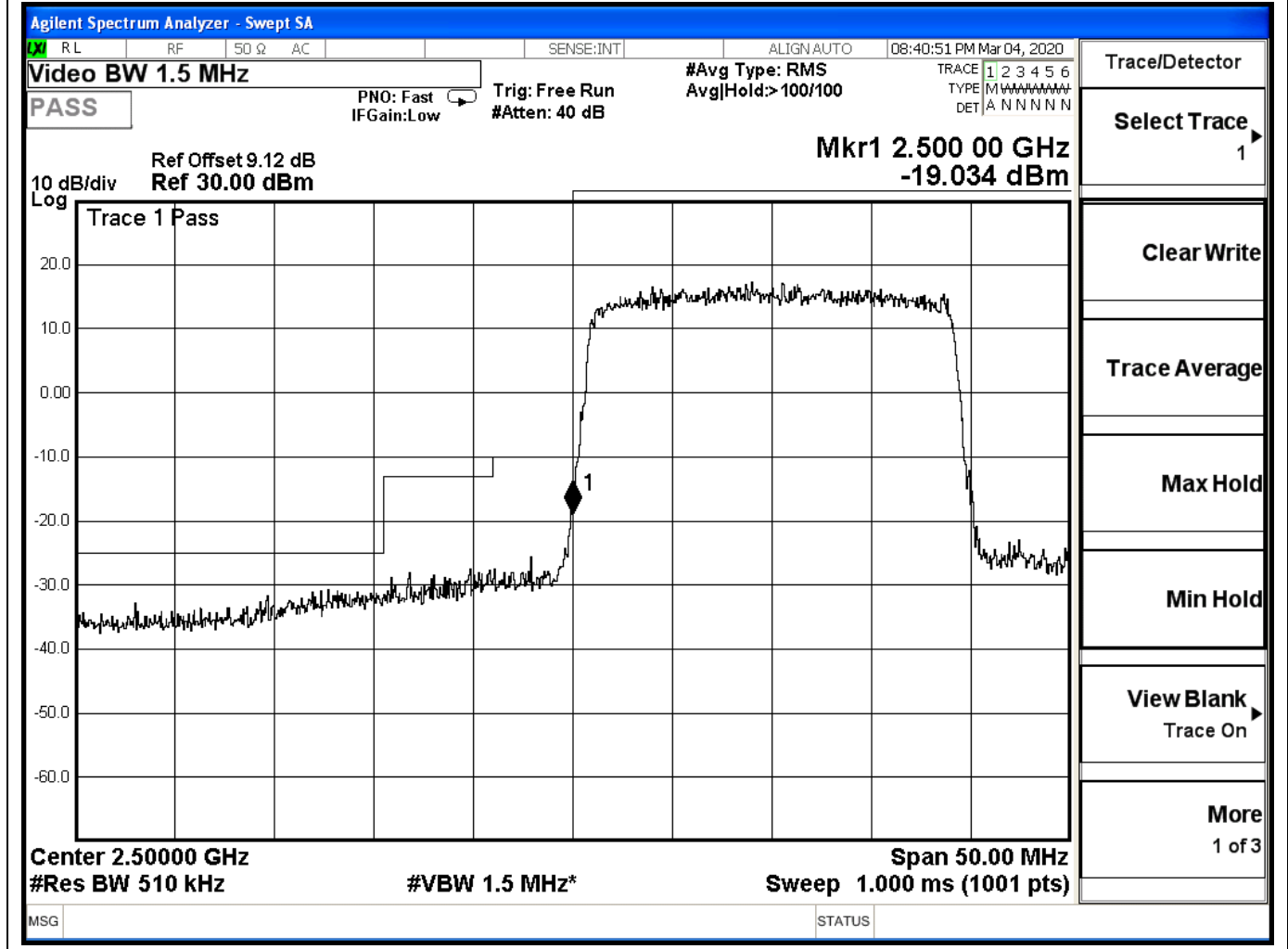
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



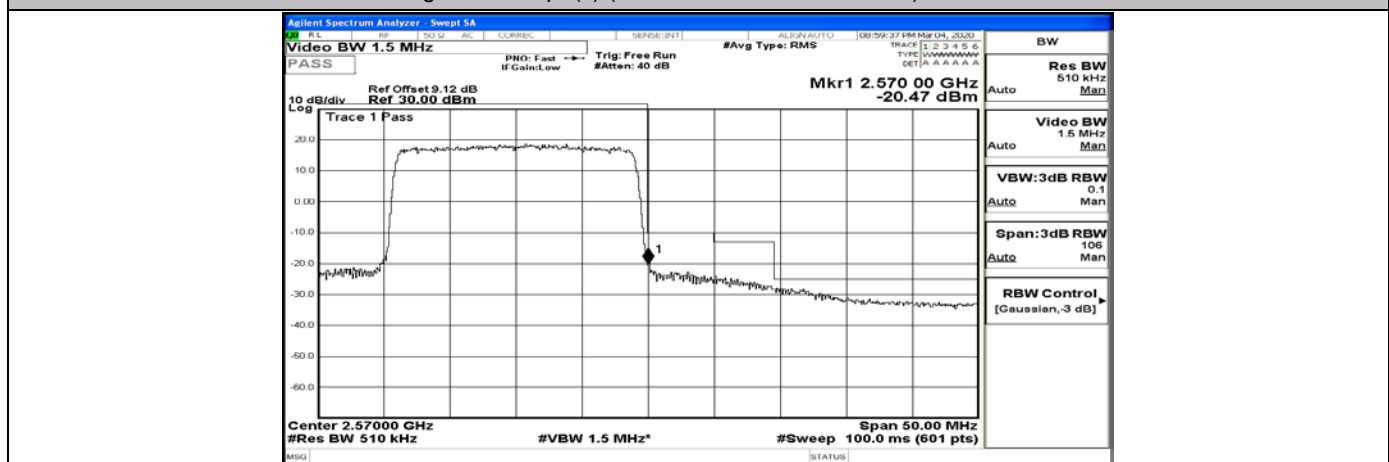
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz) HCH_16QAM



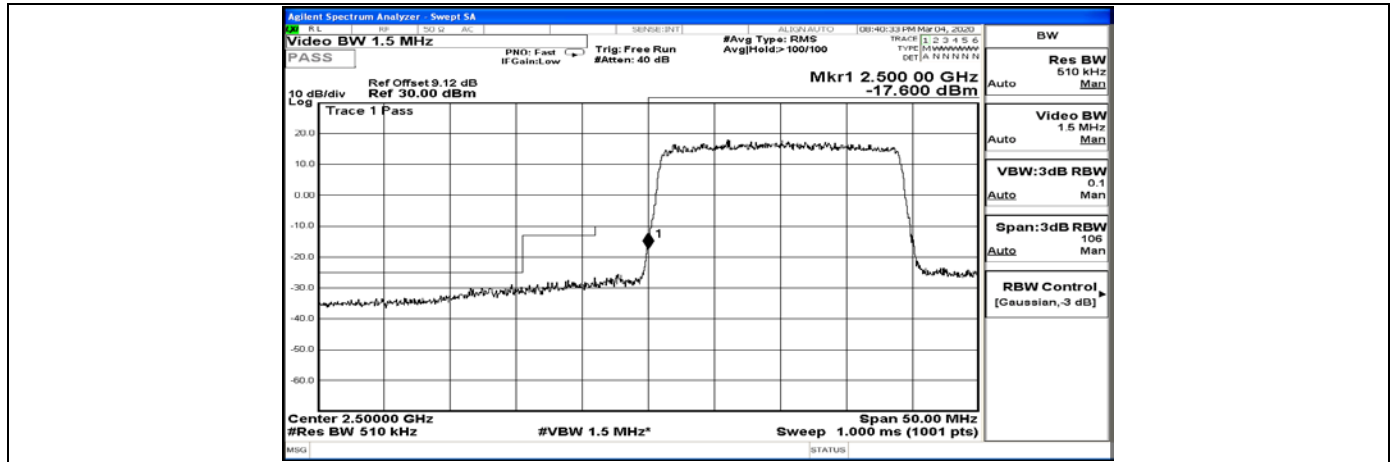
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



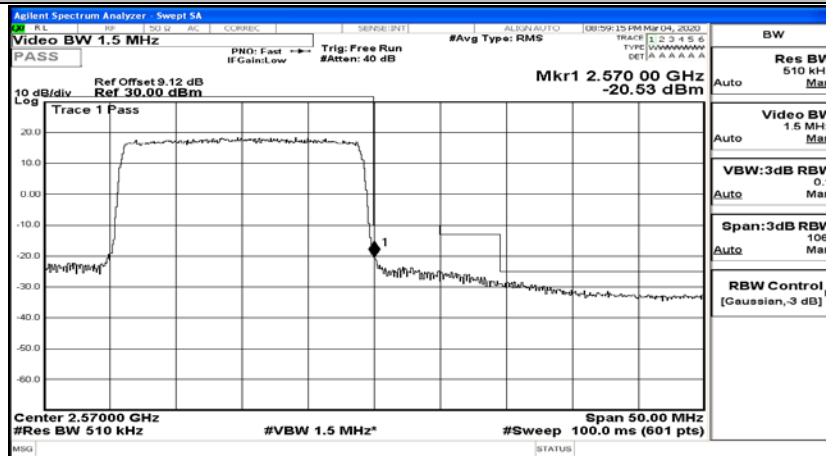
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



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

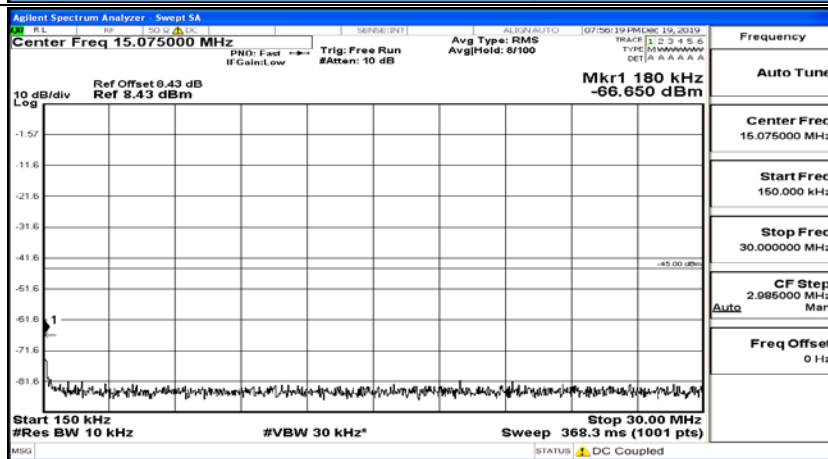
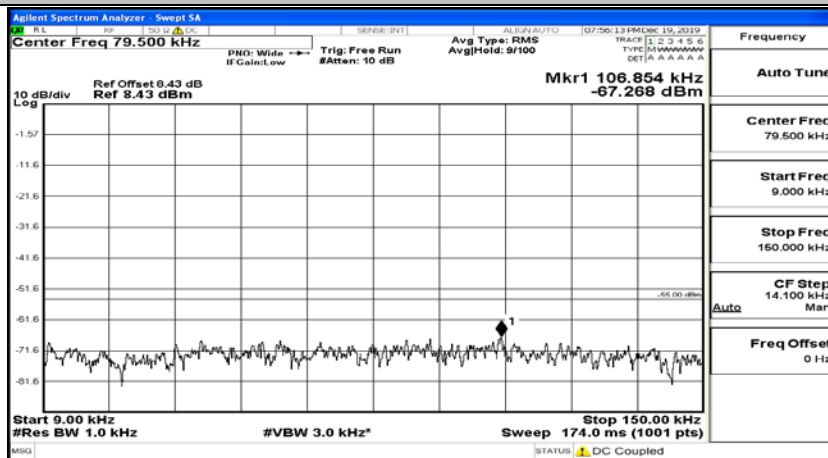


Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

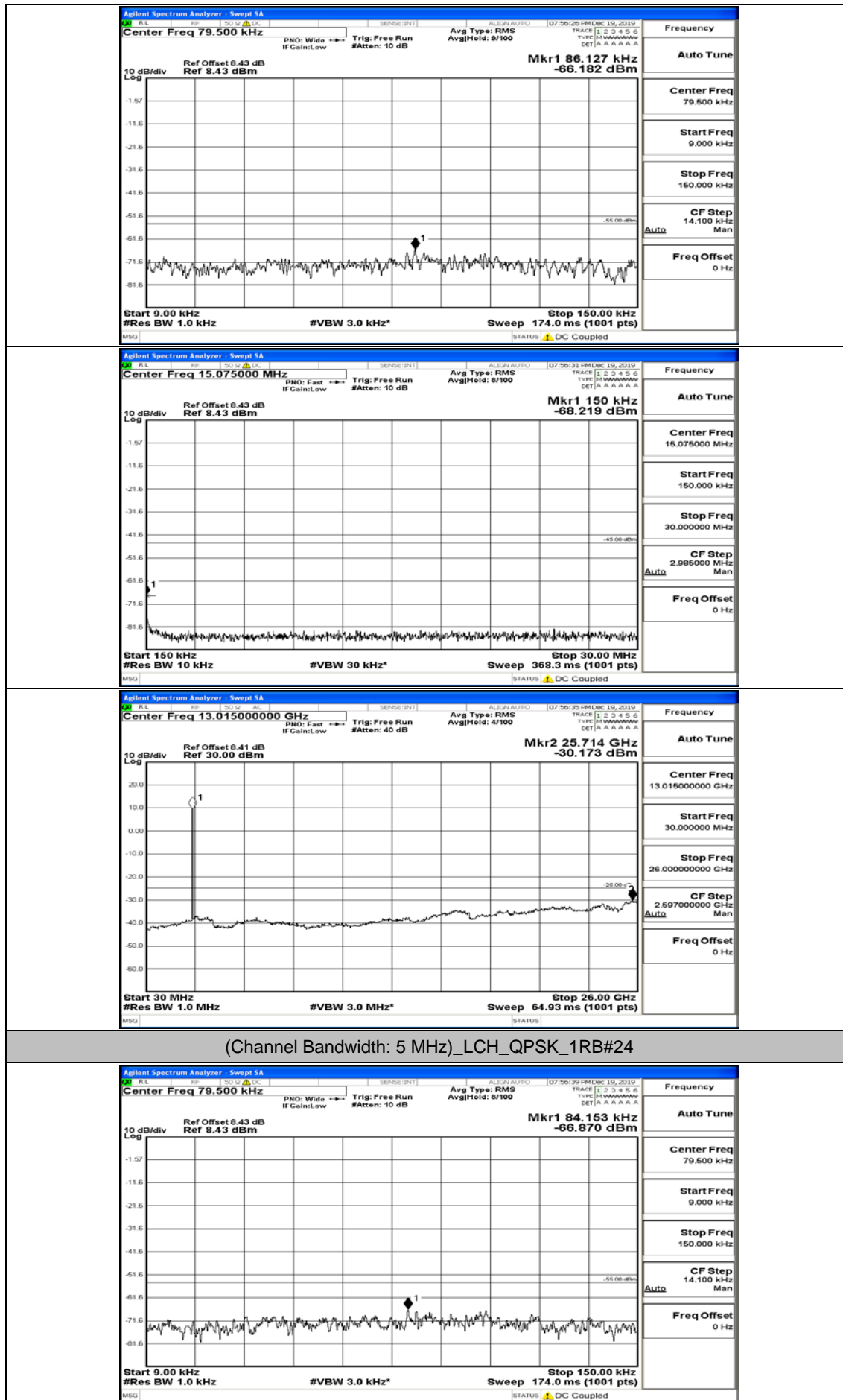


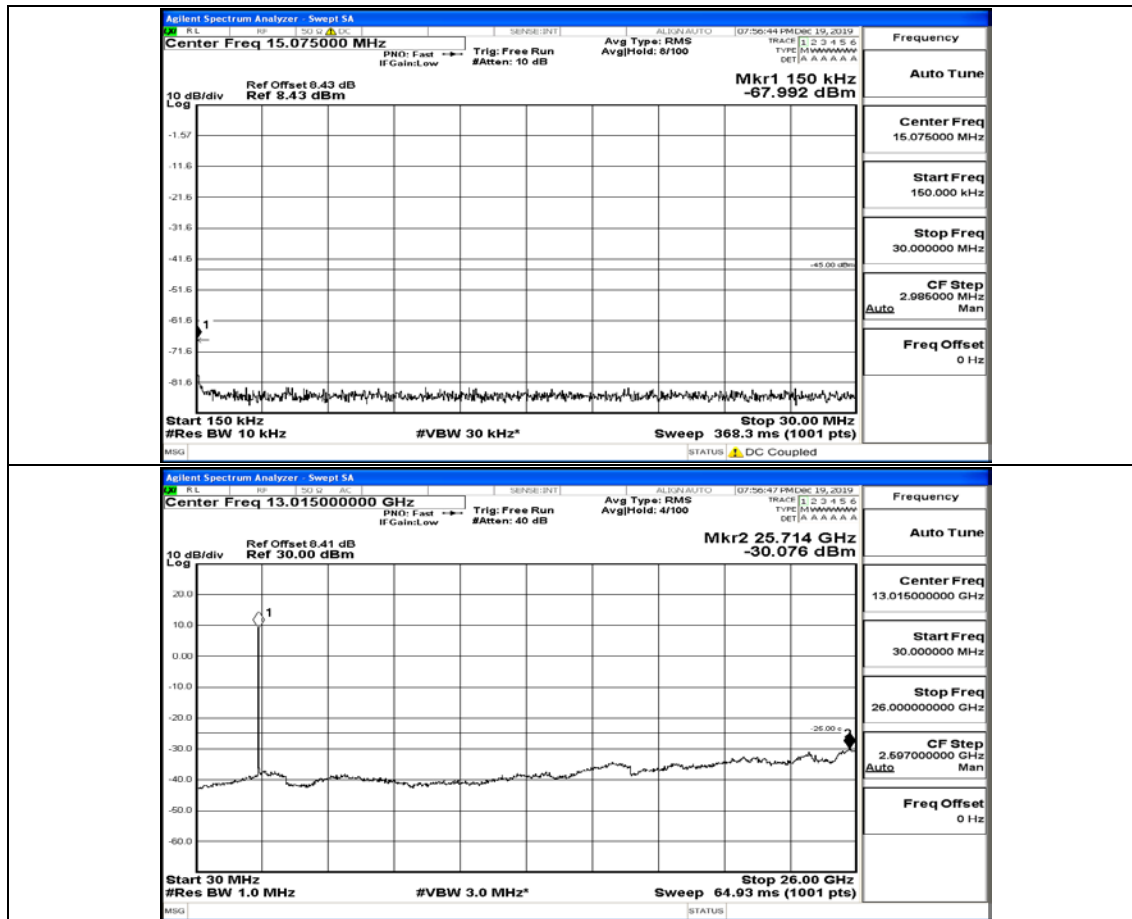
G.5 Conducted Spurious Emission

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

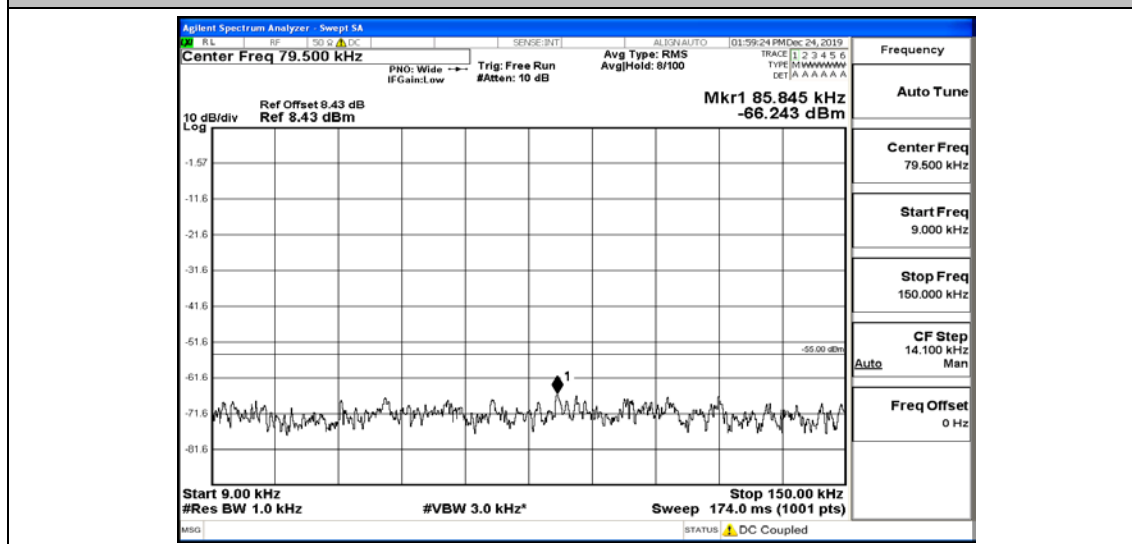


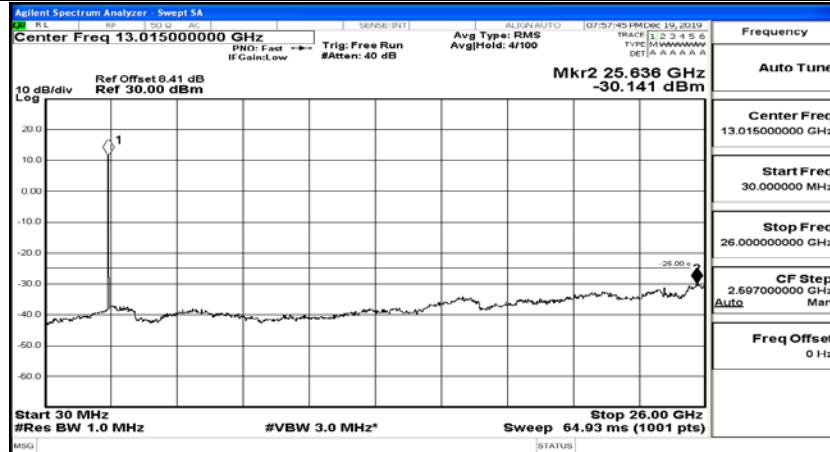
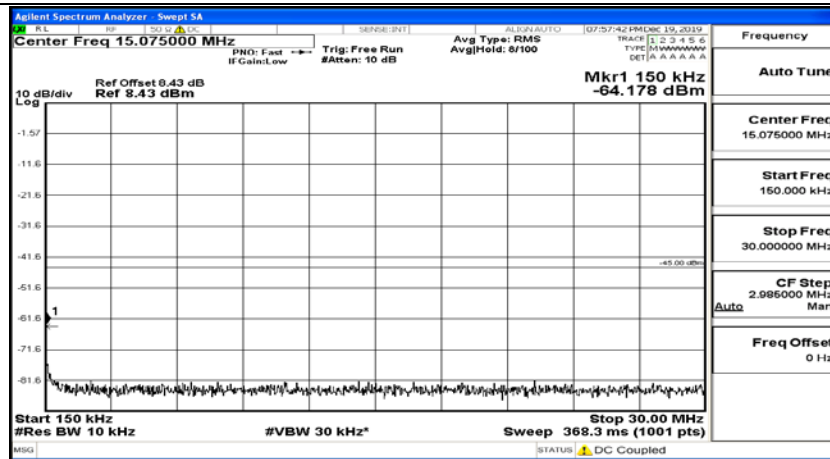
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12





(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0





(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

