

Appendix F: Test Data for E-UTRA Band 5

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

F.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	24.02	23.25	PASS
		1	3	24.20	23.47	PASS
		1	5	24.05	23.30	PASS
		3	0	24.19	23.26	PASS
		3	2	24.21	23.28	PASS
		3	3	24.14	23.24	PASS
		6	0	23.18	22.08	PASS
	MCH	1	0	24.34	23.61	PASS
		1	3	24.41	23.75	PASS
		1	5	24.34	23.61	PASS
		3	0	24.18	23.11	PASS
		3	2	24.17	23.09	PASS
		3	3	24.05	23.17	PASS
		6	0	23.24	22.25	PASS
	HCH	1	0	23.90	22.98	PASS
		1	3	23.81	23.17	PASS
		1	5	23.63	22.91	PASS
		3	0	23.74	22.90	PASS
		3	2	23.77	22.88	PASS
		3	3	23.72	22.88	PASS
		6	0	23.21	22.23	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.77	22.93	PASS
		1	7	23.99	23.23	PASS
		1	14	23.73	22.93	PASS
		8	0	23.24	22.69	PASS
		8	4	23.33	22.61	PASS
		8	7	23.38	22.66	PASS
		15	0	23.18	22.17	PASS
	MCH	1	0	24.37	23.30	PASS
		1	7	24.45	23.52	PASS
		1	14	24.13	23.26	PASS
		8	0	23.02	22.10	PASS
		8	4	23.08	22.28	PASS
		8	7	23.10	22.43	PASS
		15	0	23.14	21.92	PASS
	HCH	1	0	23.91	23.32	PASS
		1	7	24.09	23.49	PASS
		1	14	23.81	23.16	PASS
		8	0	23.24	22.39	PASS
		8	4	23.46	22.25	PASS
		8	7	23.23	22.36	PASS
		15	0	23.10	22.15	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	24.13	23.10	PASS
		1	12	24.34	23.80	PASS
		1	24	23.92	23.27	PASS
		12	0	23.47	22.64	PASS
		12	6	23.12	22.43	PASS
		12	13	23.46	22.74	PASS
		25	0	23.17	22.18	PASS
	MCH	1	0	24.27	23.22	PASS
		1	12	24.50	23.60	PASS
		1	24	24.22	23.40	PASS
		12	0	23.29	22.57	PASS
		12	6	23.48	22.80	PASS
		12	13	23.46	22.72	PASS
		25	0	23.11	22.12	PASS
	HCH	1	0	23.79	22.82	PASS
		1	12	24.11	23.12	PASS
		1	24	23.68	22.79	PASS
		12	0	23.25	22.41	PASS
		12	6	23.39	22.62	PASS
		12	13	23.11	22.43	PASS
		25	0	23.30	22.63	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	23.99	22.91	PASS
		1	24	24.17	23.17	PASS
		1	49	23.99	23.23	PASS
		25	0	23.41	22.56	PASS
		25	12	23.33	22.70	PASS
		25	25	23.35	22.56	PASS
		50	0	23.14	22.15	PASS
	MCH	1	0	23.99	23.19	PASS
		1	24	24.12	23.34	PASS
		1	49	23.90	23.12	PASS
		25	0	23.31	22.36	PASS
		25	12	23.41	22.43	PASS
		25	25	23.46	22.49	PASS
		50	0	23.41	22.45	PASS
	HCH	1	0	24.11	23.25	PASS
		1	24	24.12	23.45	PASS
		1	49	23.75	23.10	PASS
		25	0	23.35	22.46	PASS
		25	12	23.38	22.67	PASS
		25	25	23.30	22.44	PASS
		50	0	23.27	22.45	PASS

F.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	5.33	<13	PASS
	MCH	5.74	<13	PASS
	HCH	5.57	<13	PASS
16QAM	LCH	6.25	<13	PASS
	MCH	6.66	<13	PASS
	HCH	6.6	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.48	<13	PASS
	MCH	5.72	<13	PASS
	HCH	5.71	<13	PASS
16QAM	LCH	6.38	<13	PASS
	MCH	6.66	<13	PASS
	HCH	6.53	<13	PASS

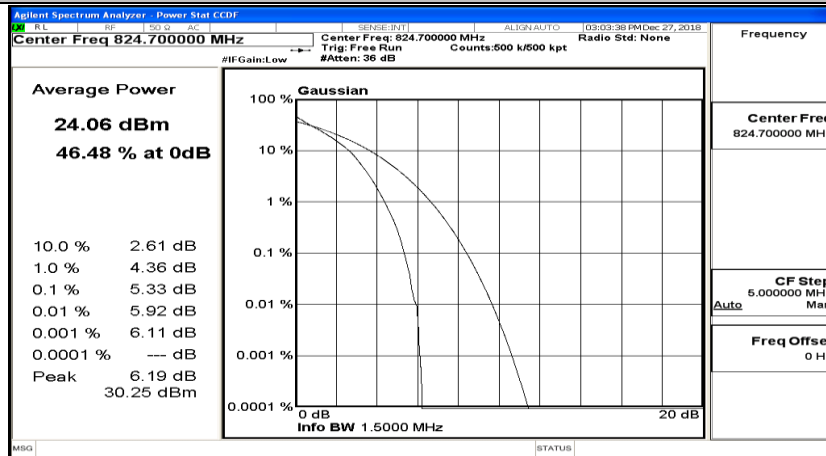
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.5	<13	PASS
	MCH	5.77	<13	PASS
	HCH	5.66	<13	PASS
16QAM	LCH	6.33	<13	PASS
	MCH	6.56	<13	PASS
	HCH	6.4	<13	PASS

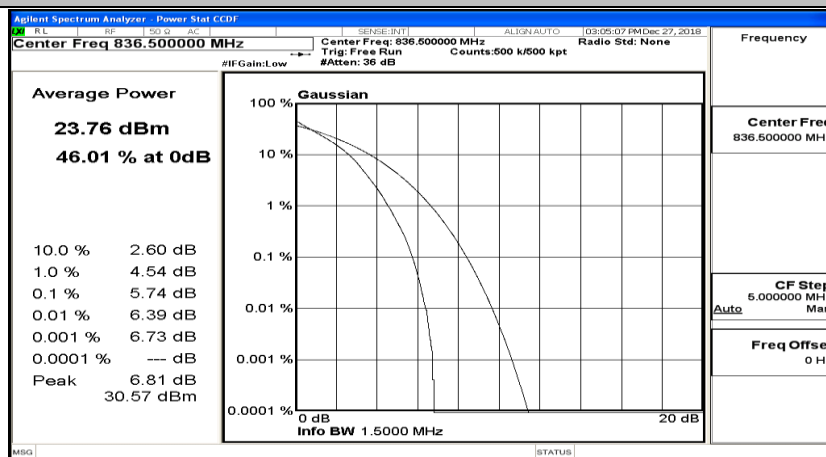
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.59	<13	PASS
	MCH	5.67	<13	PASS
	HCH	5.68	<13	PASS
16QAM	LCH	6.32	<13	PASS
	MCH	6.41	<13	PASS
	HCH	6.41	<13	PASS

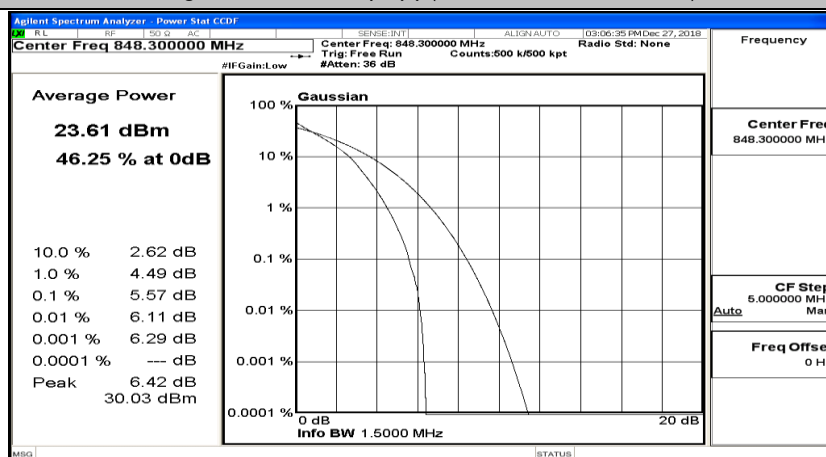
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



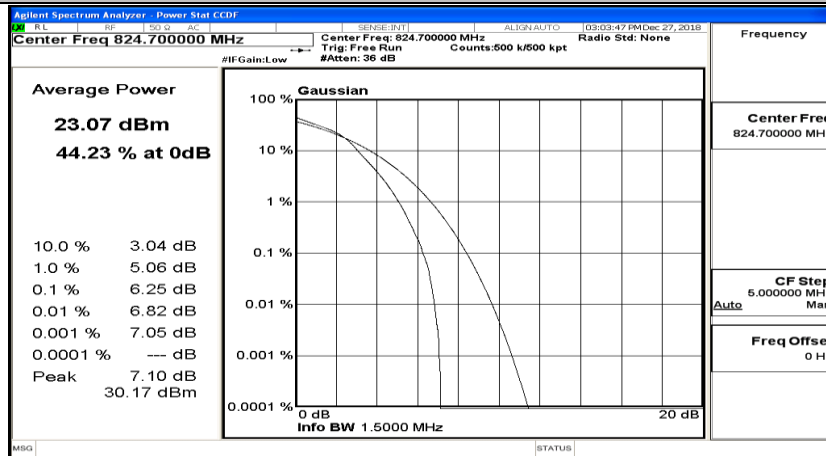
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



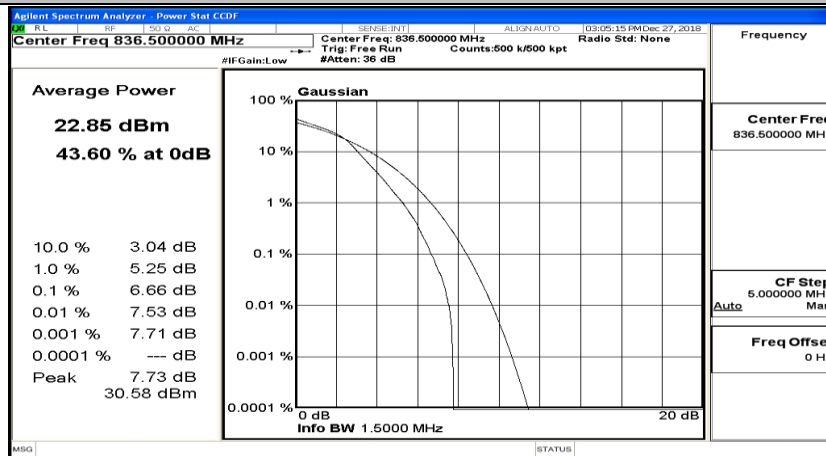
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



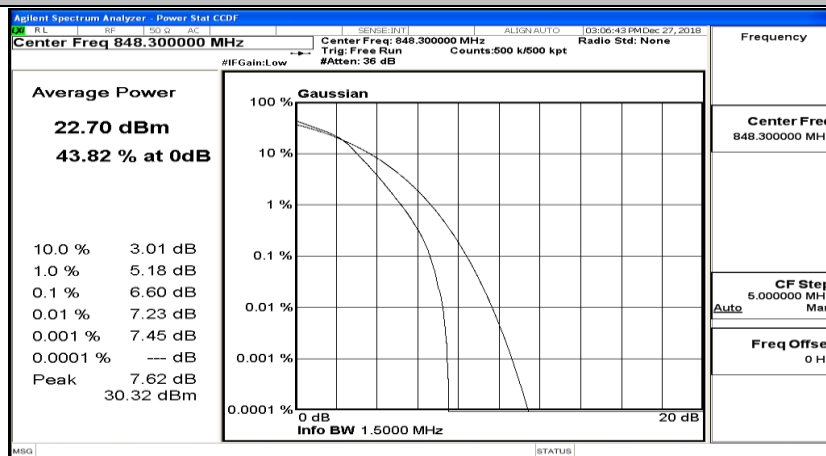
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



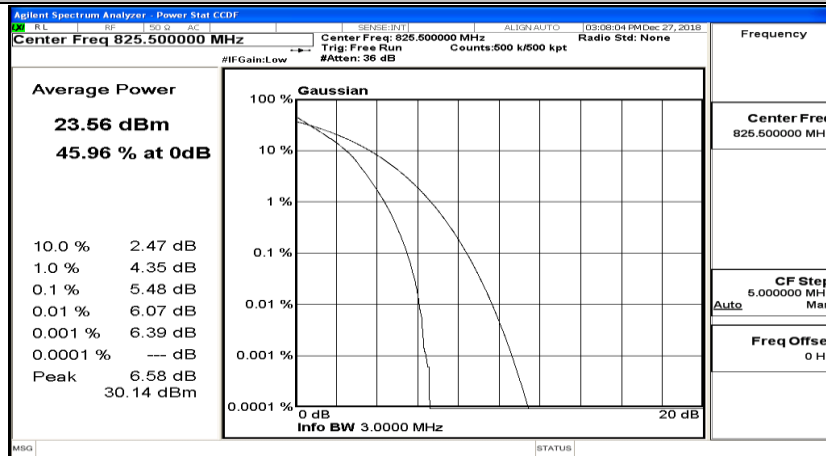
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



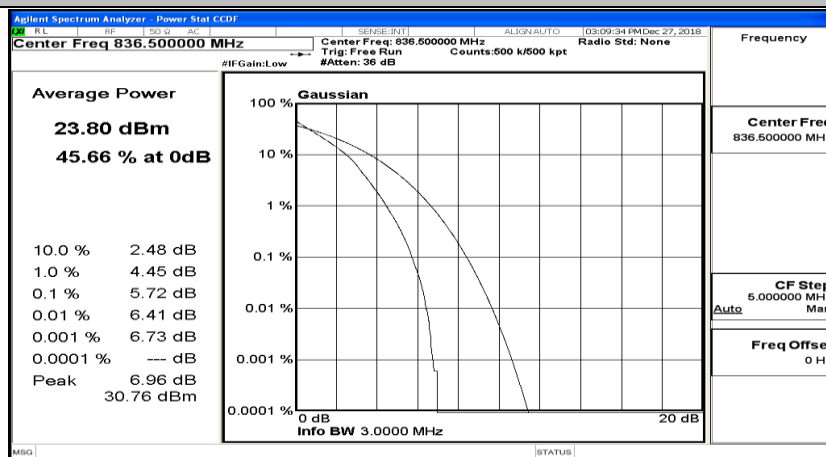
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



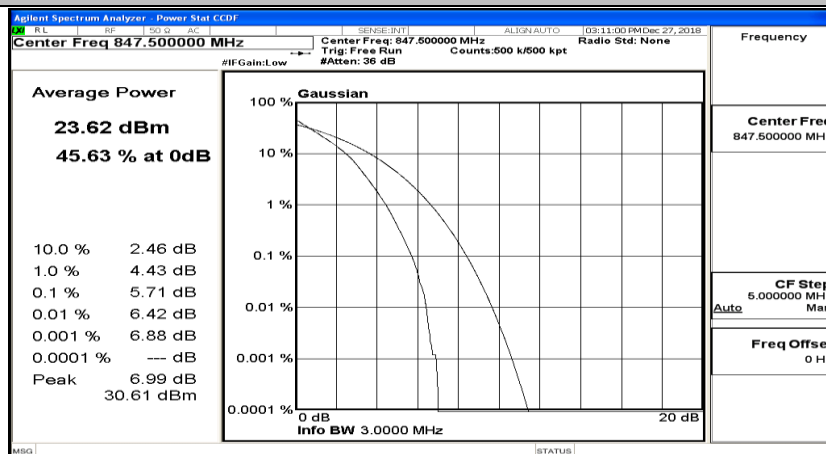
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



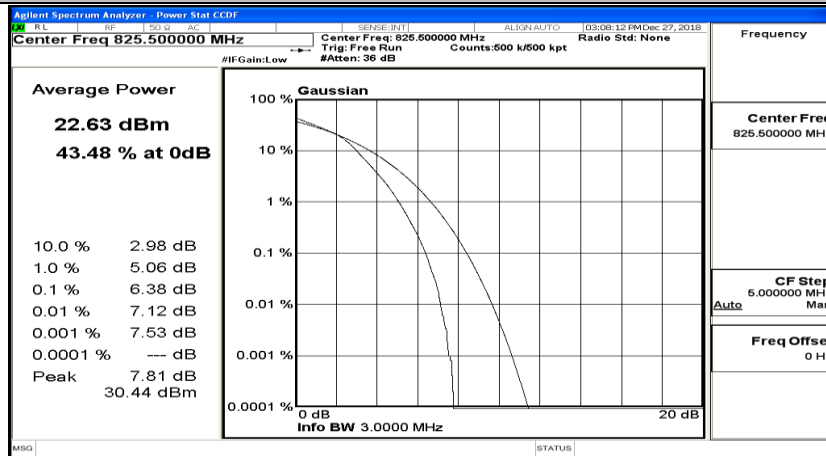
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



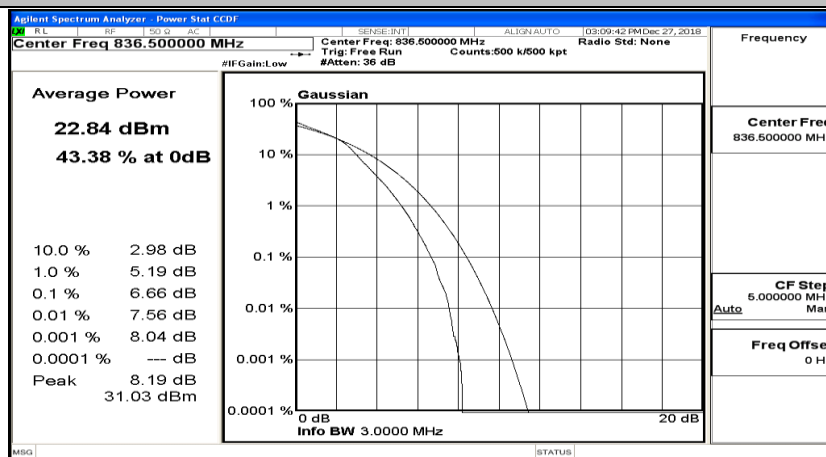
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



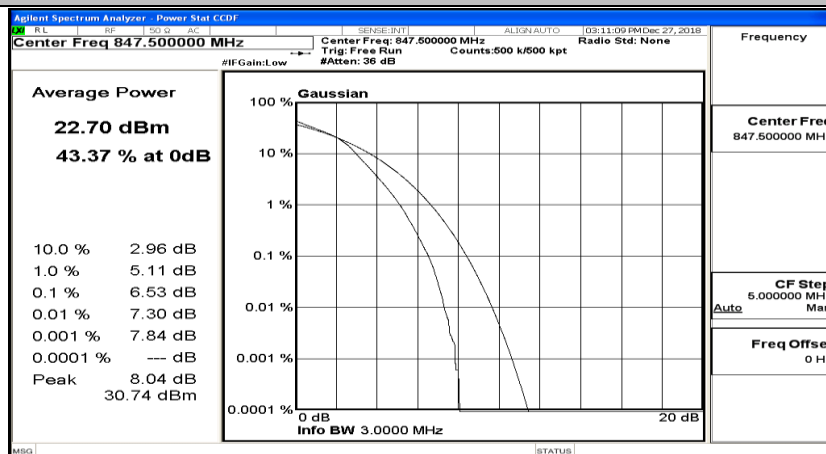
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



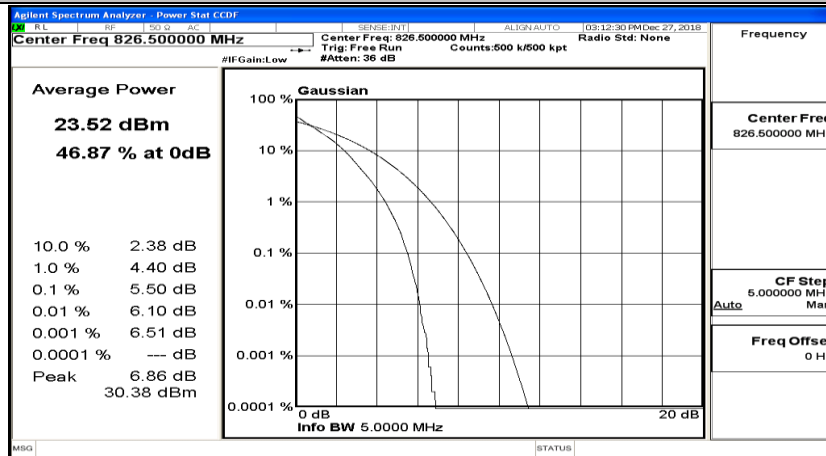
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



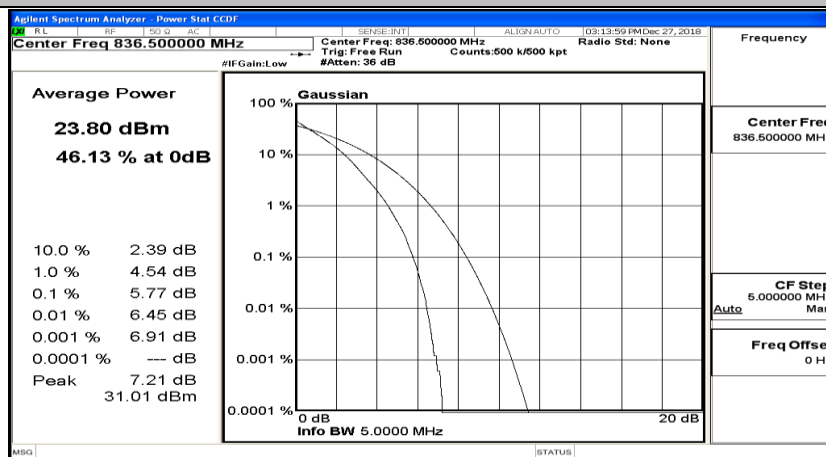
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



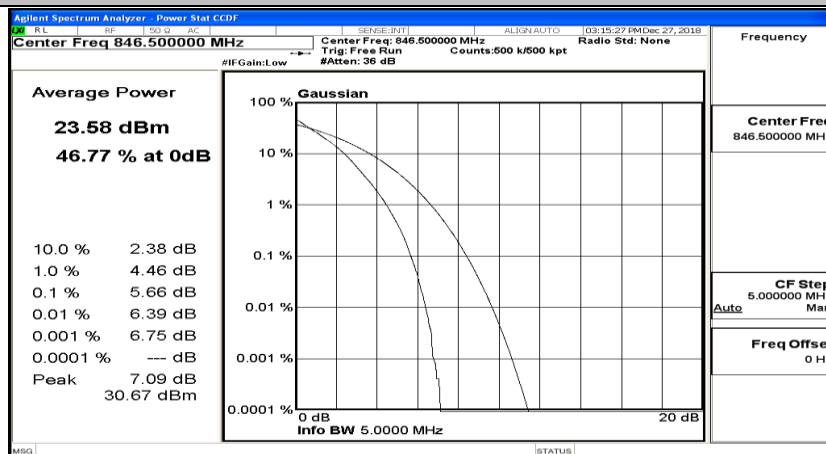
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



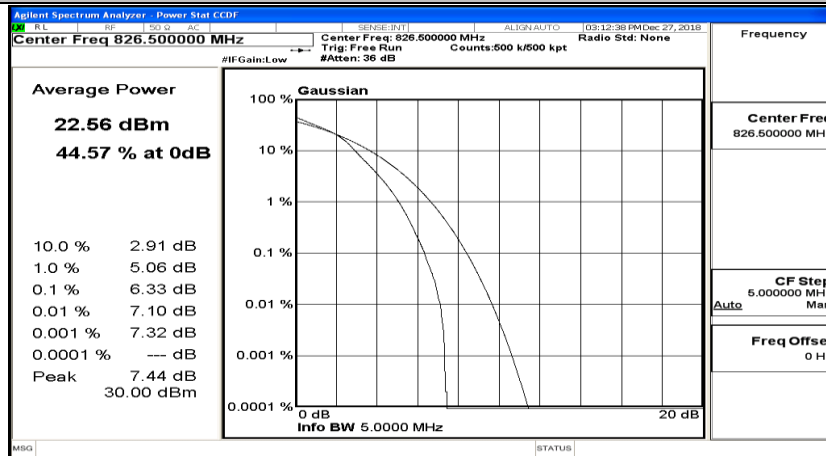
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



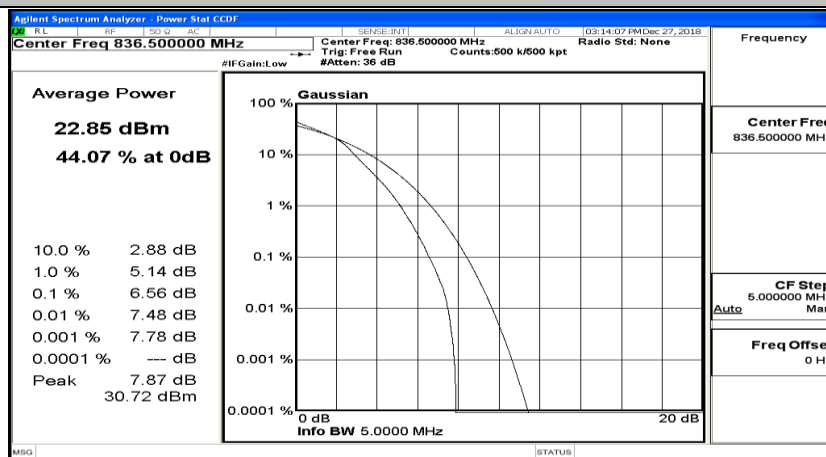
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



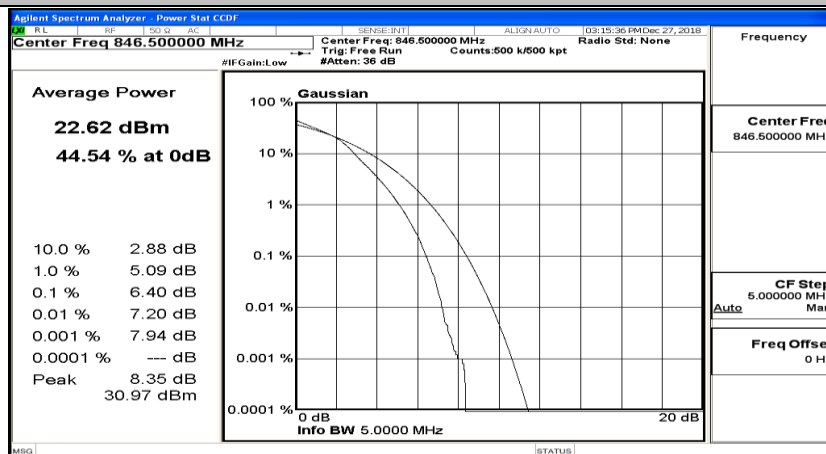
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



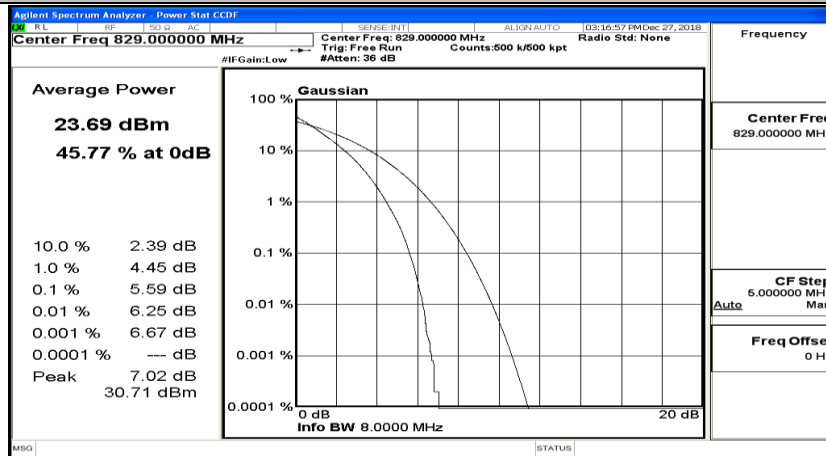
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



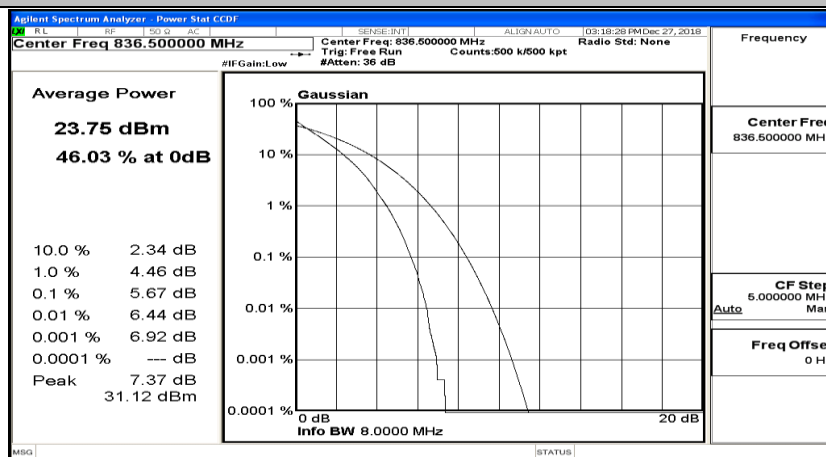
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



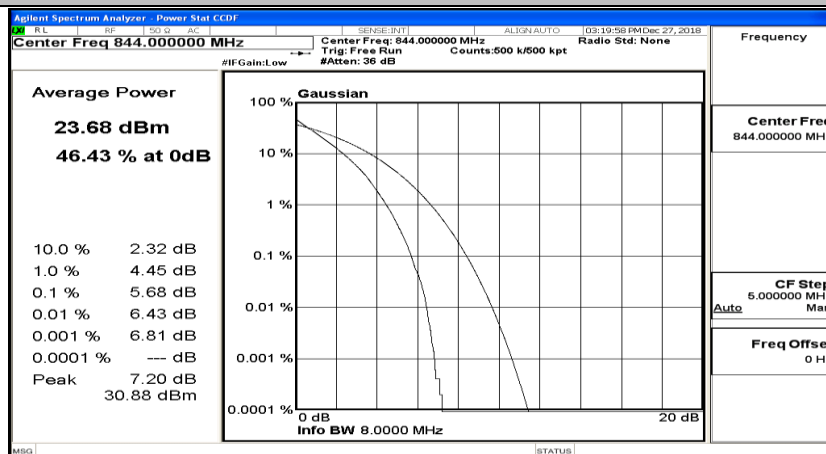
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



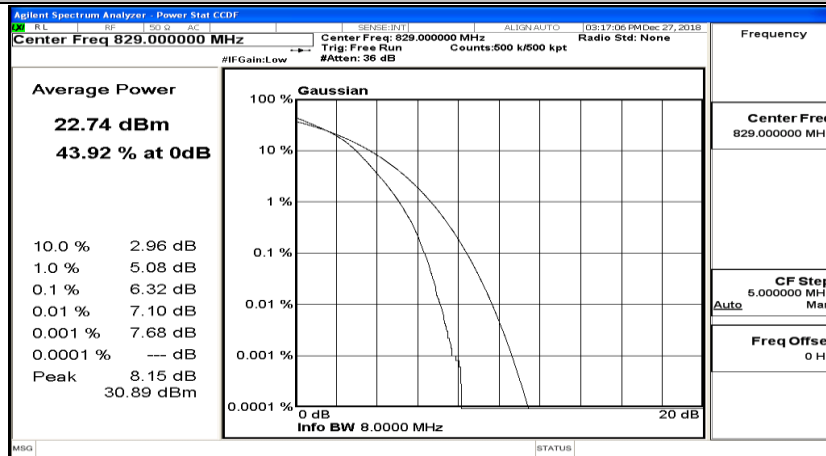
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



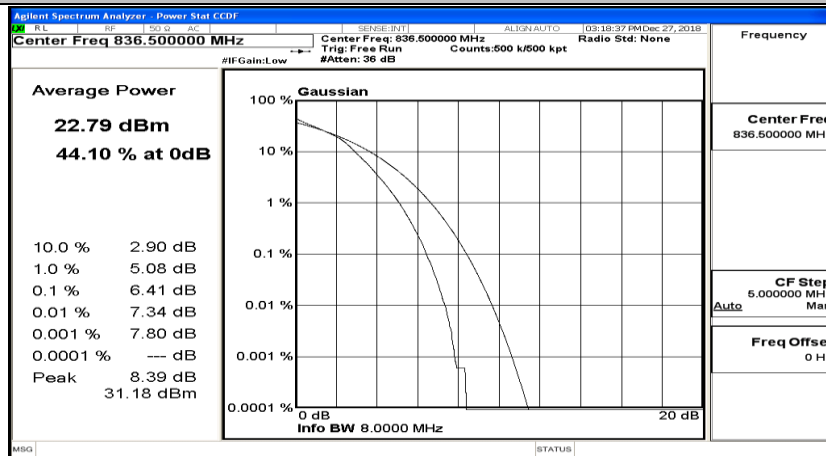
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



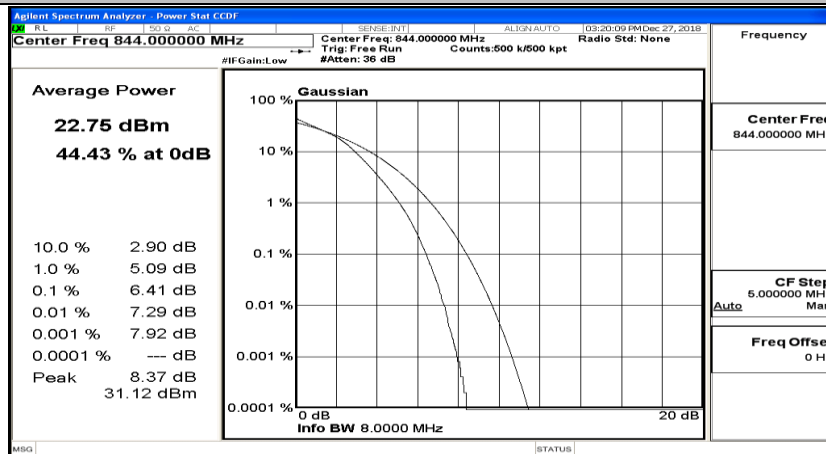
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



F.3 26dB Bandwidth and Occupied Bandwidth

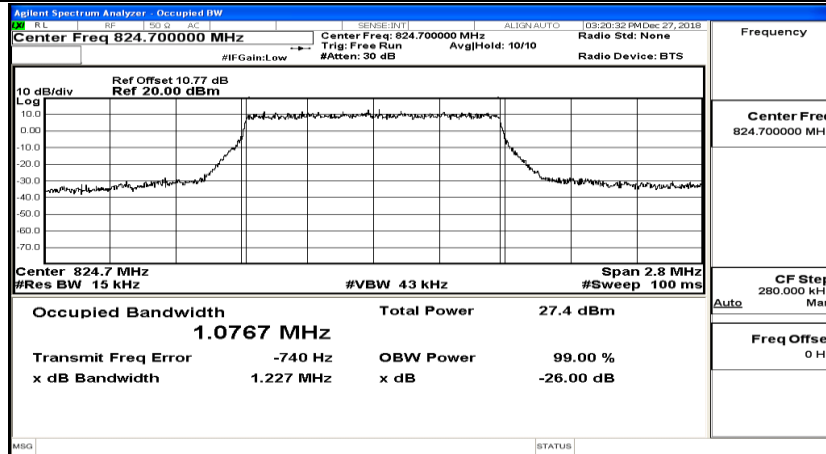
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0767	1.227	PASS
	MCH	1.0749	1.209	PASS
	HCH	1.0757	1.226	PASS
16QAM	LCH	1.0788	1.210	PASS
	MCH	1.0782	1.239	PASS
	HCH	1.0772	1.235	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6772	2.826	PASS
	MCH	2.6794	2.821	PASS
	HCH	2.6796	2.819	PASS
16QAM	LCH	2.6769	2.835	PASS
	MCH	2.6825	2.844	PASS
	HCH	2.6772	2.837	PASS

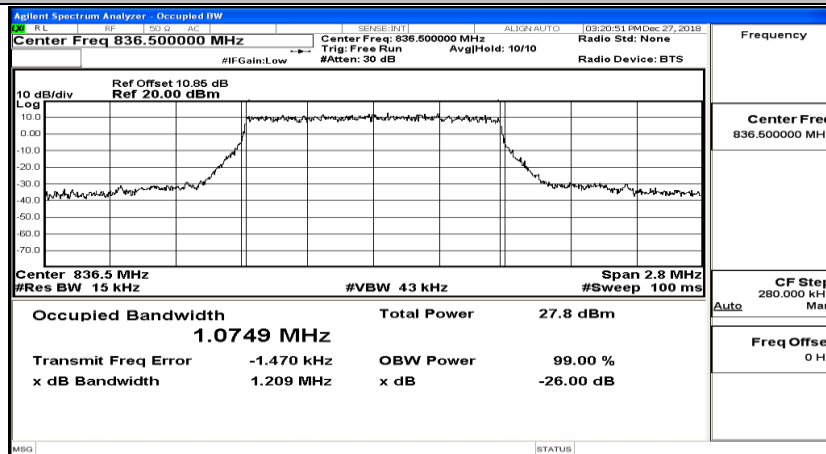
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4746	4.786	PASS
	MCH	4.4708	4.843	PASS
	HCH	4.4719	4.857	PASS
16QAM	LCH	4.4665	4.848	PASS
	MCH	4.4778	4.823	PASS
	HCH	4.4734	4.870	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9454	9.474	PASS
	MCH	8.9464	9.514	PASS
	HCH	8.9308	9.491	PASS
16QAM	LCH	8.9343	9.529	PASS
	MCH	8.9364	9.451	PASS
	HCH	8.9407	9.443	PASS

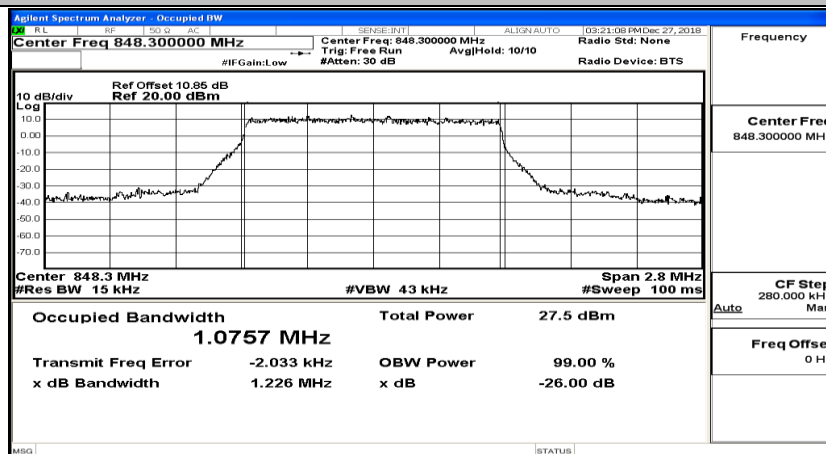
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



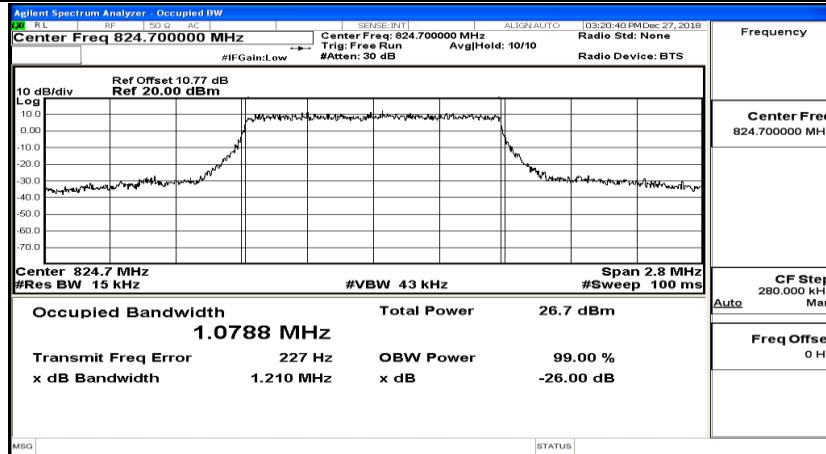
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



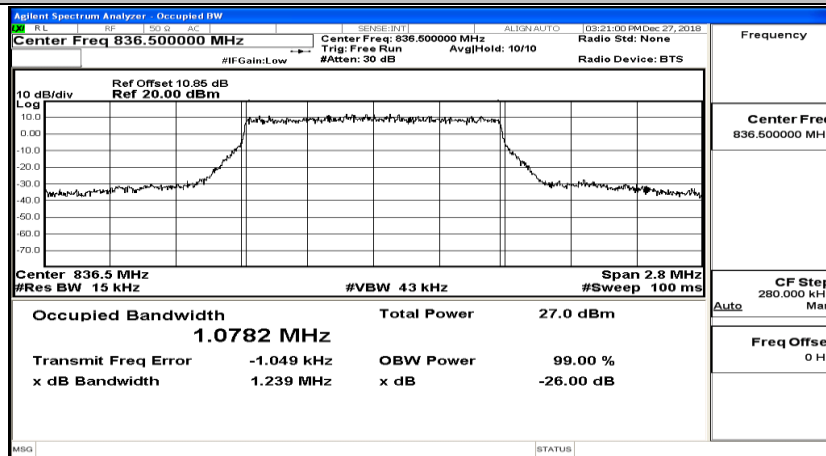
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



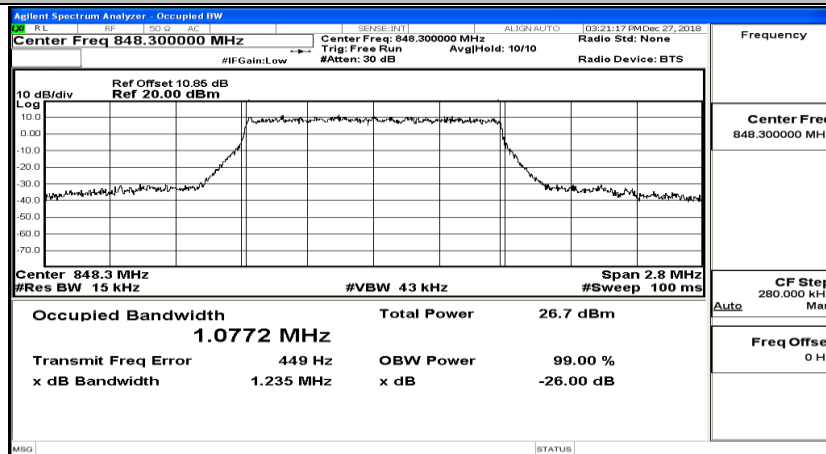
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



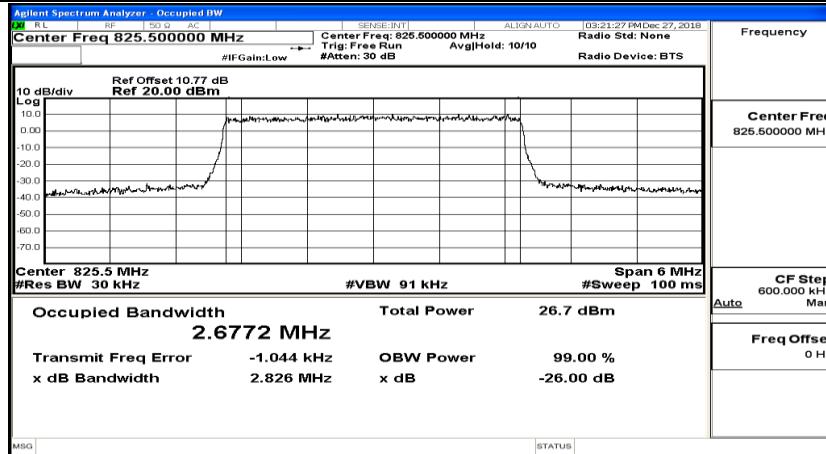
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



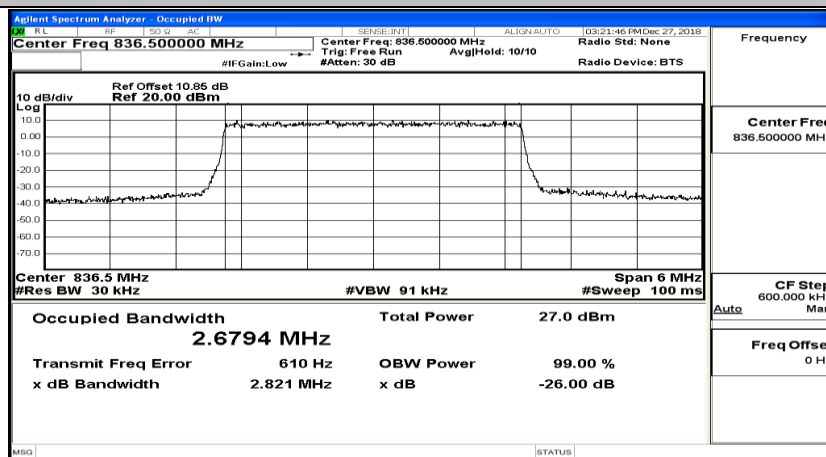
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



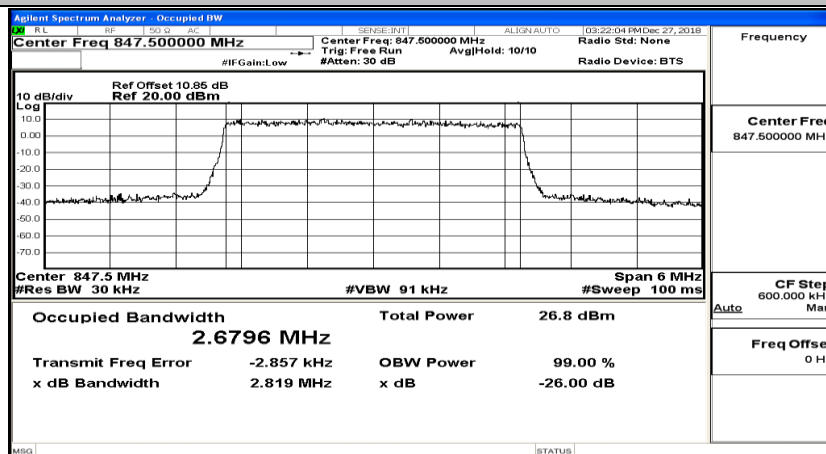
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



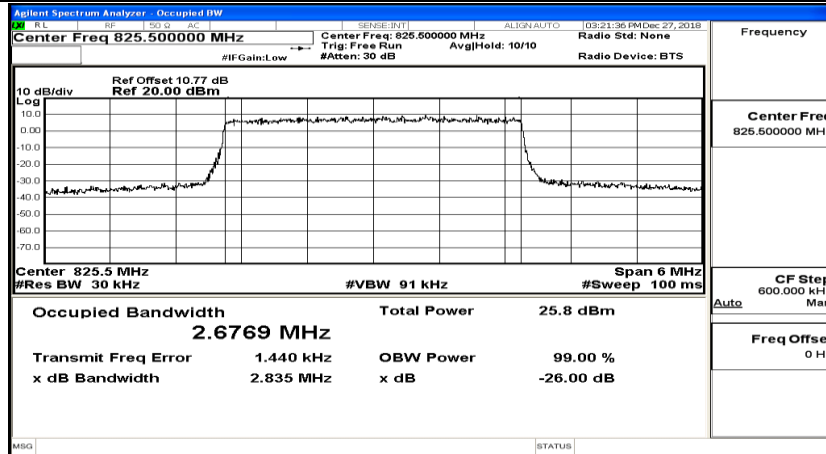
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



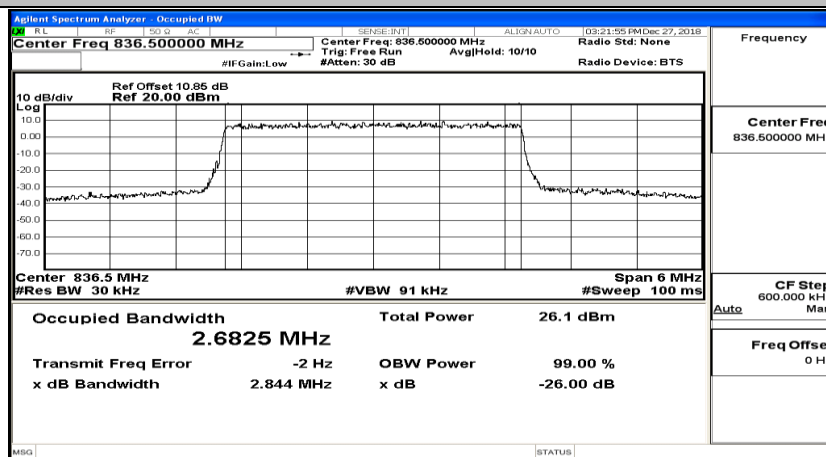
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



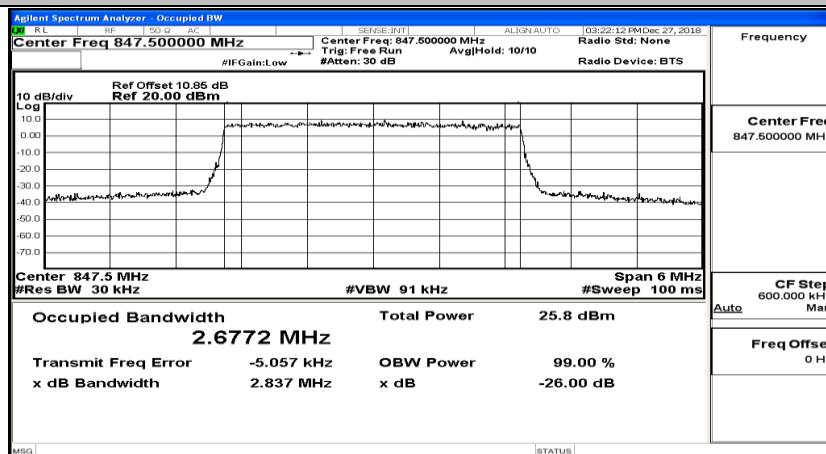
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



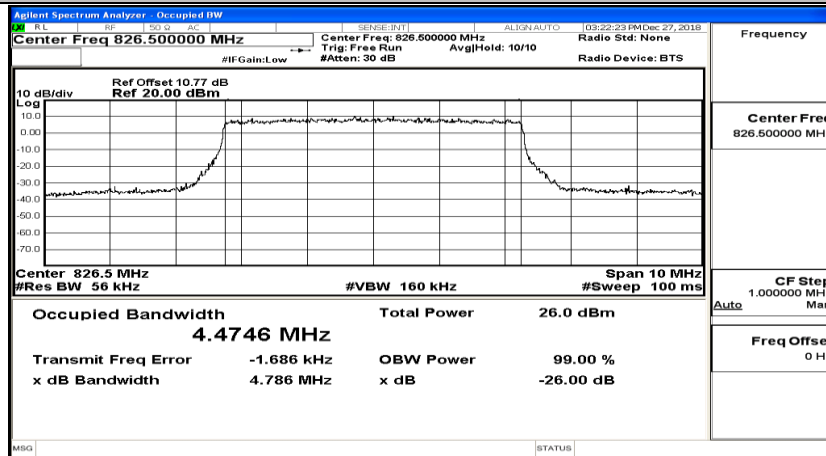
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



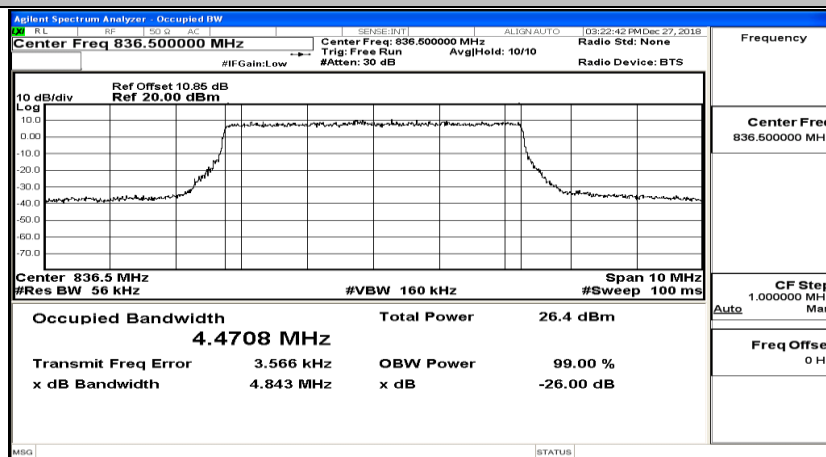
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



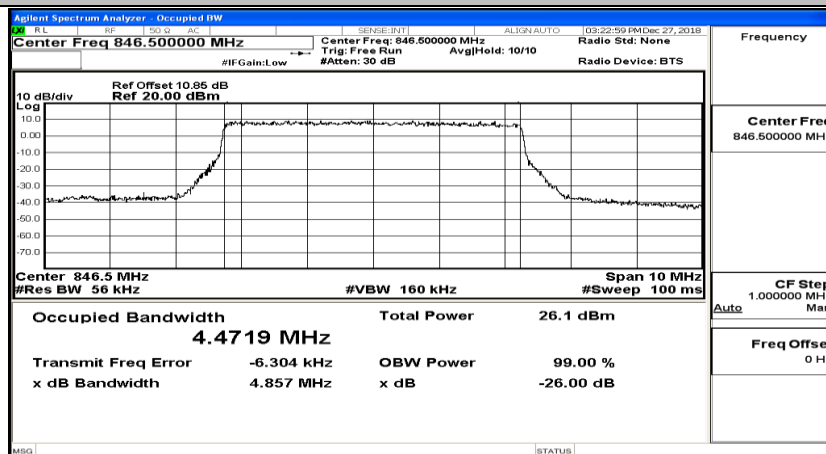
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



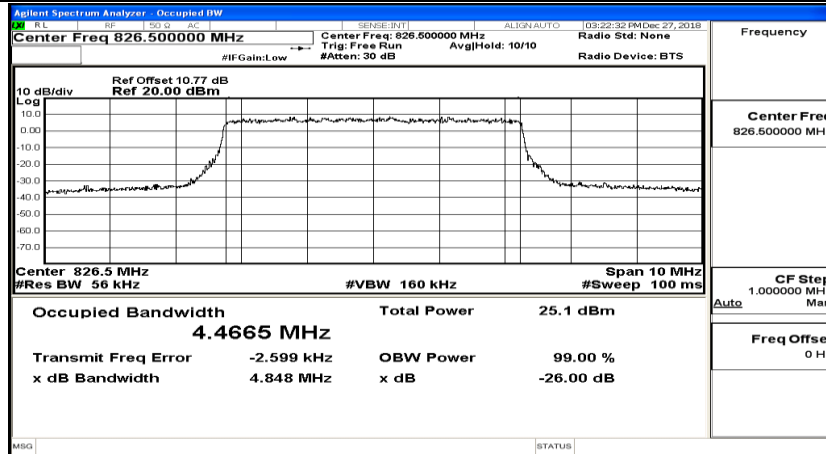
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



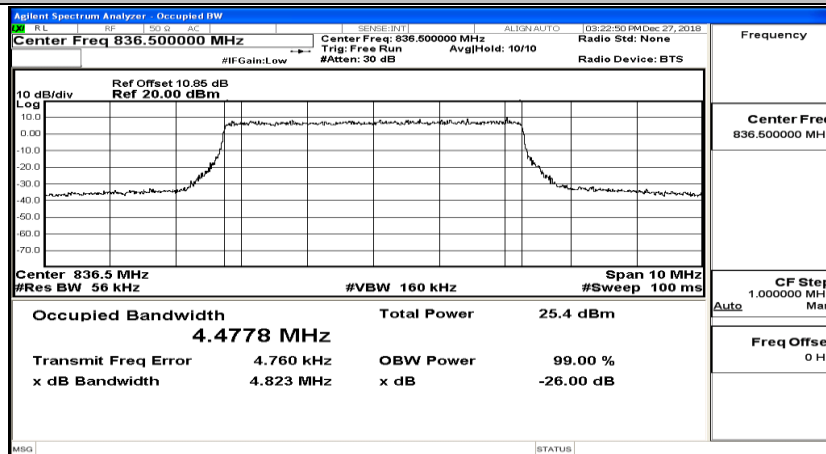
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



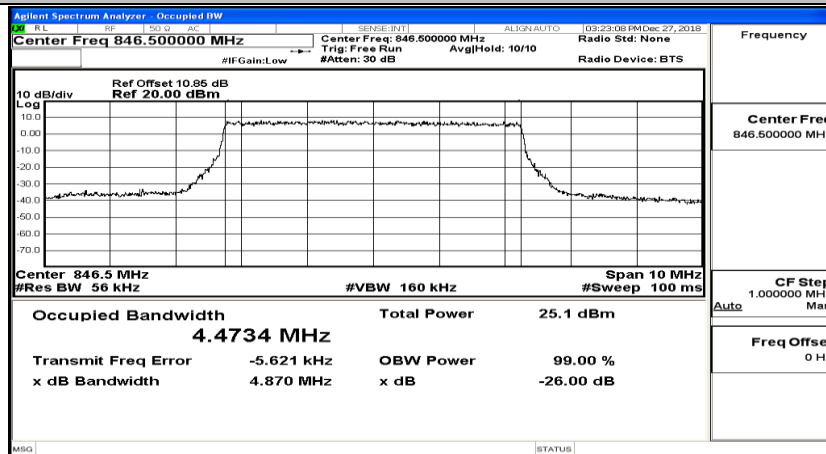
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



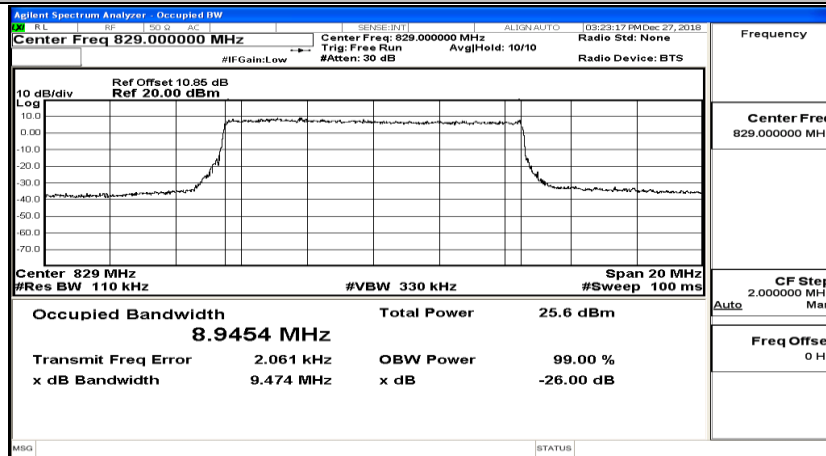
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



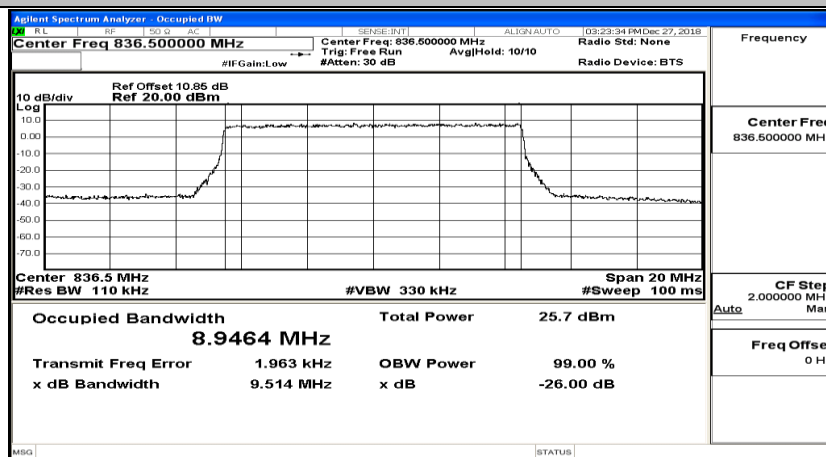
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



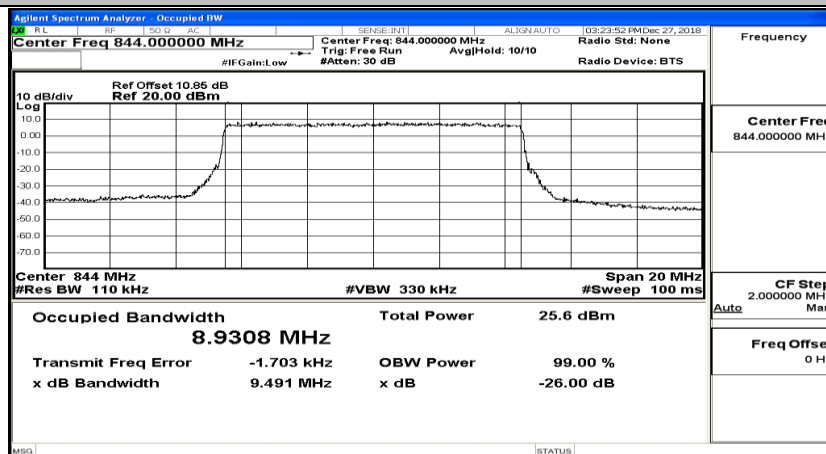
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



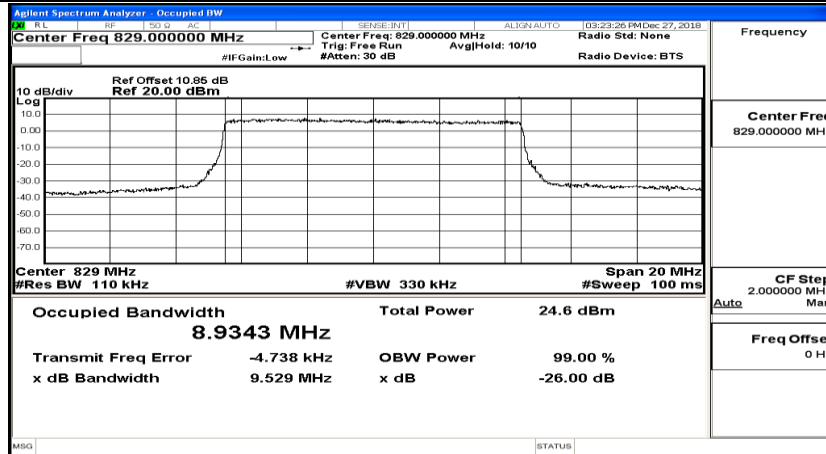
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



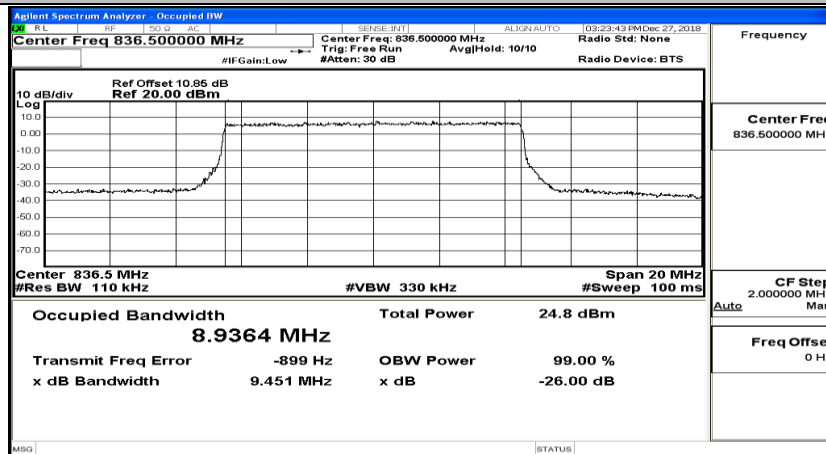
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



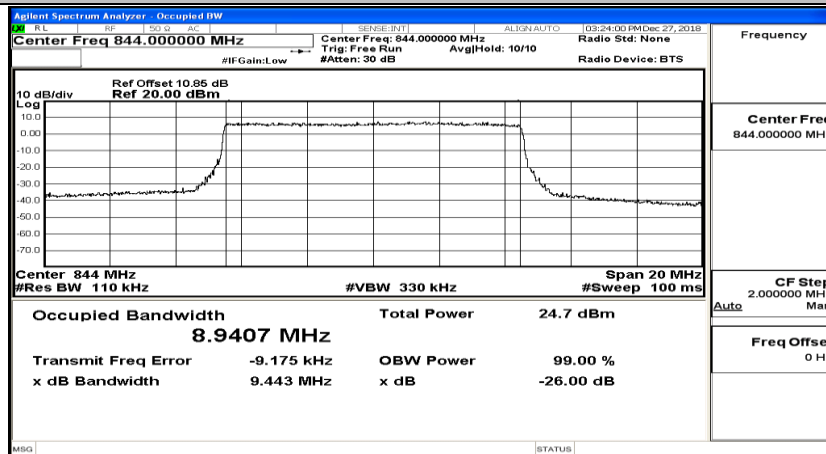
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

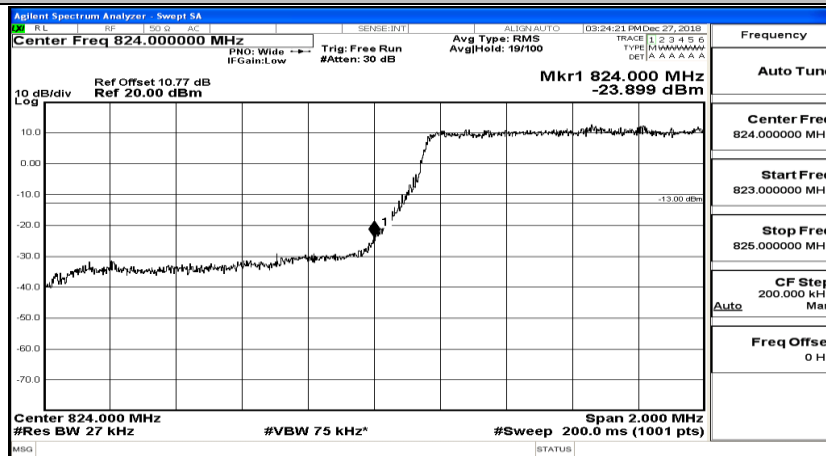


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

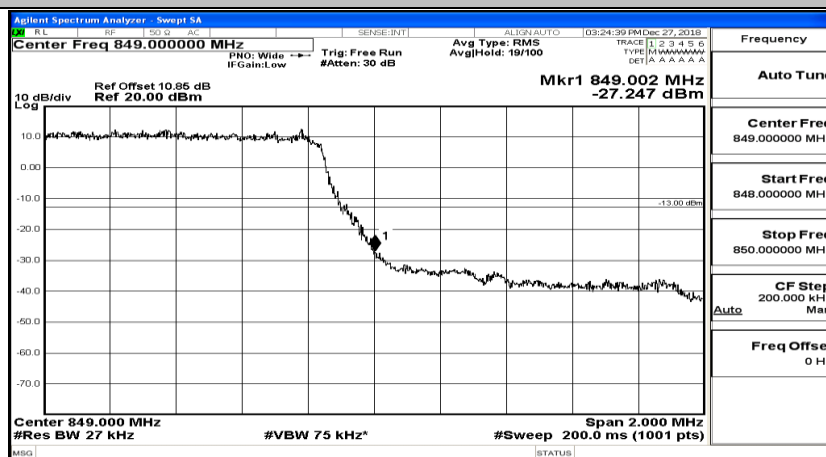


F.4 Band Edge

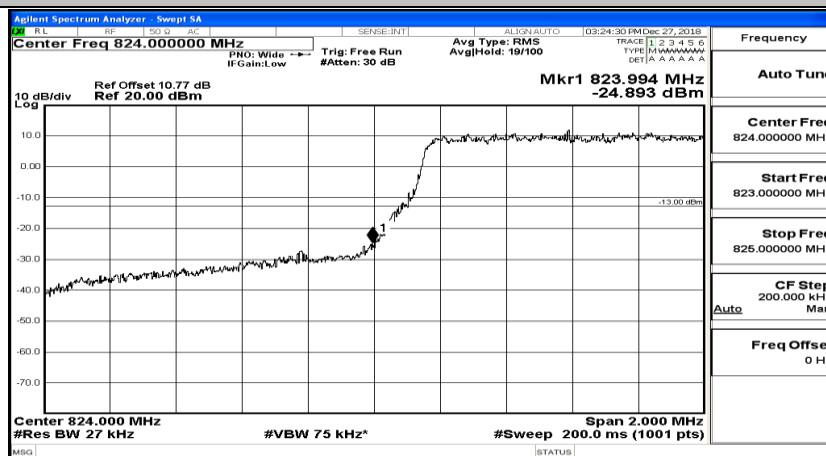
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



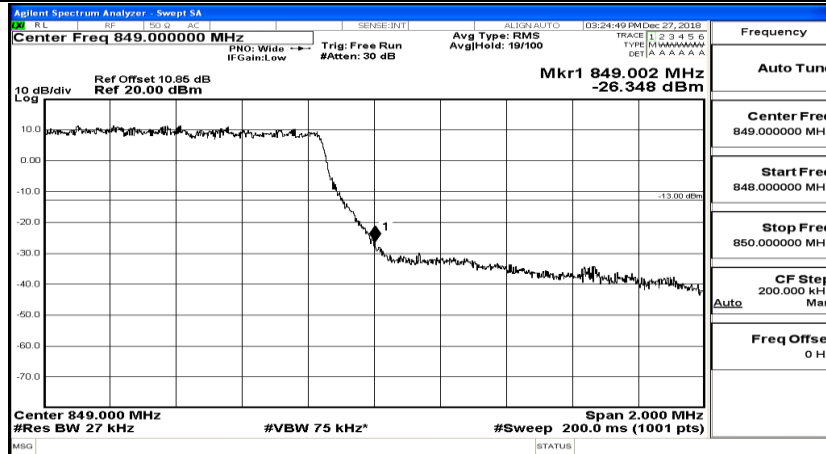
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



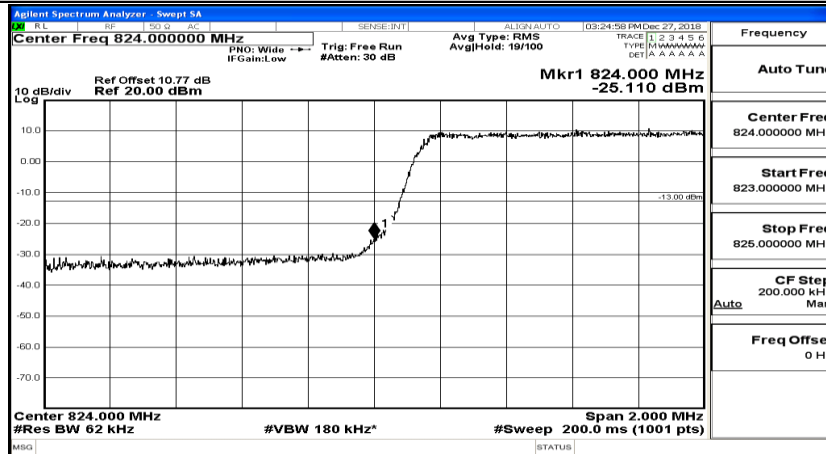
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



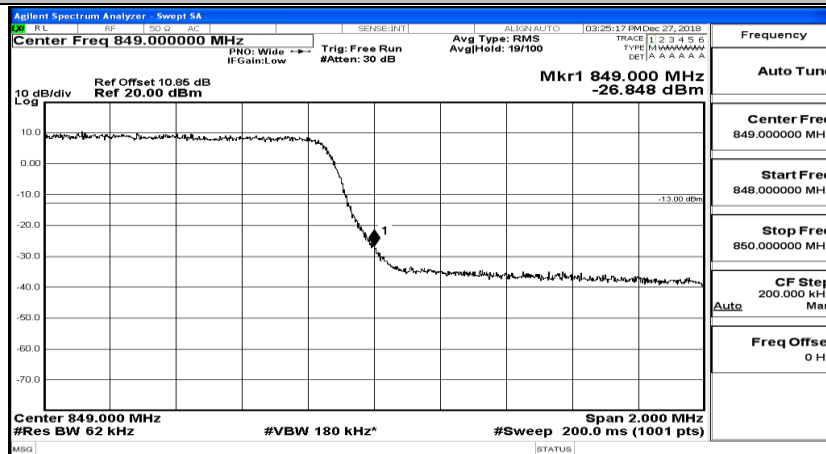
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



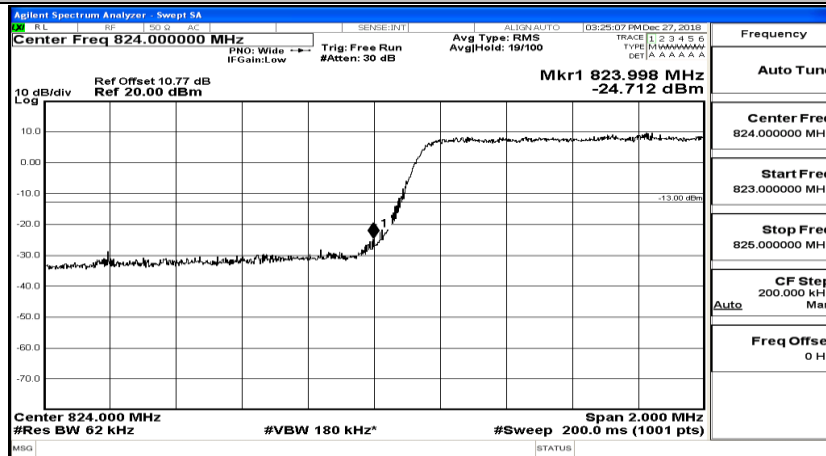
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



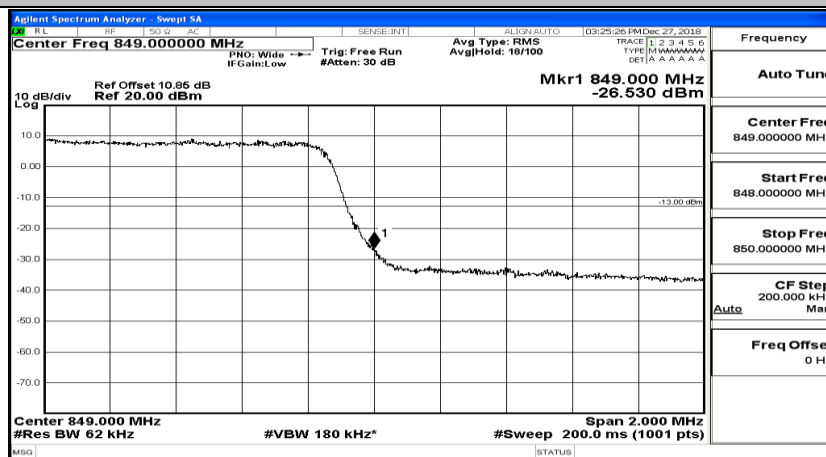
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



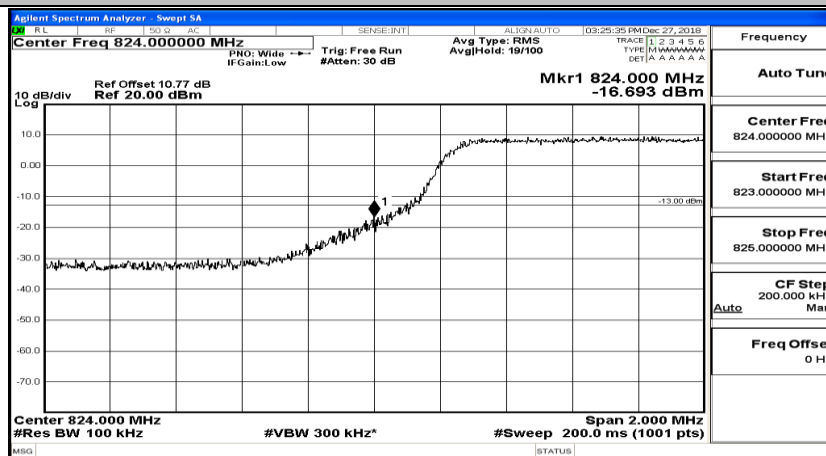
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



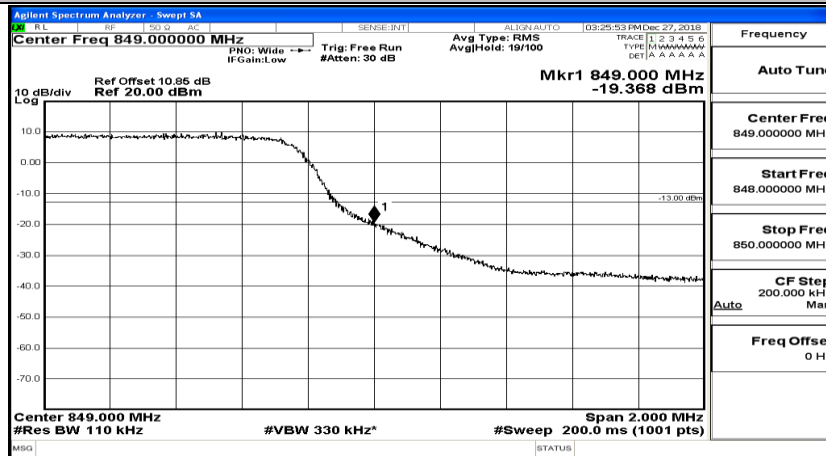
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



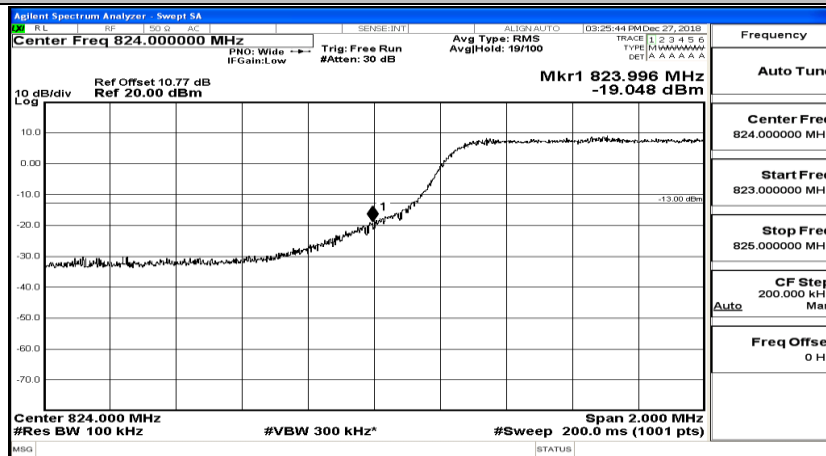
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



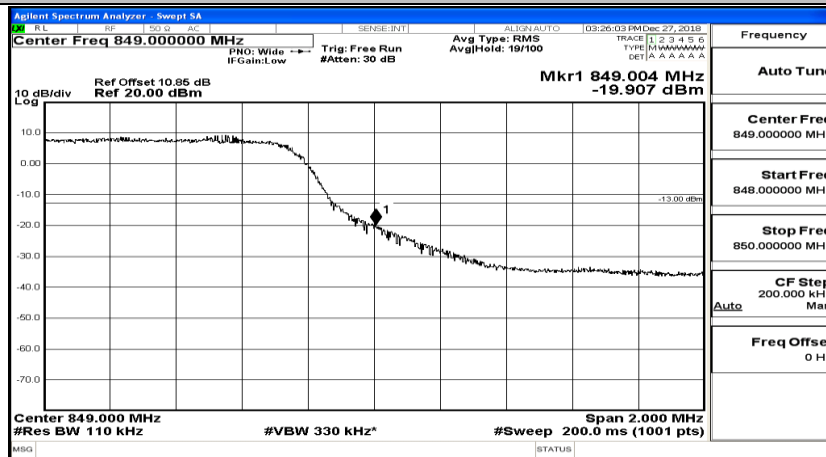
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



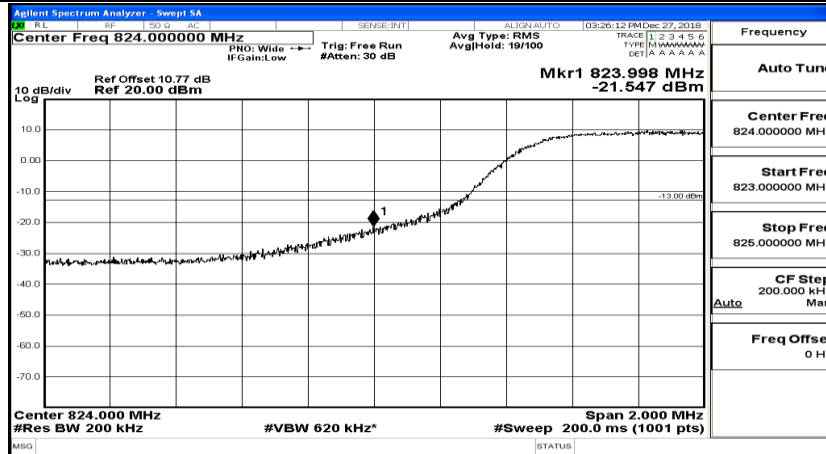
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



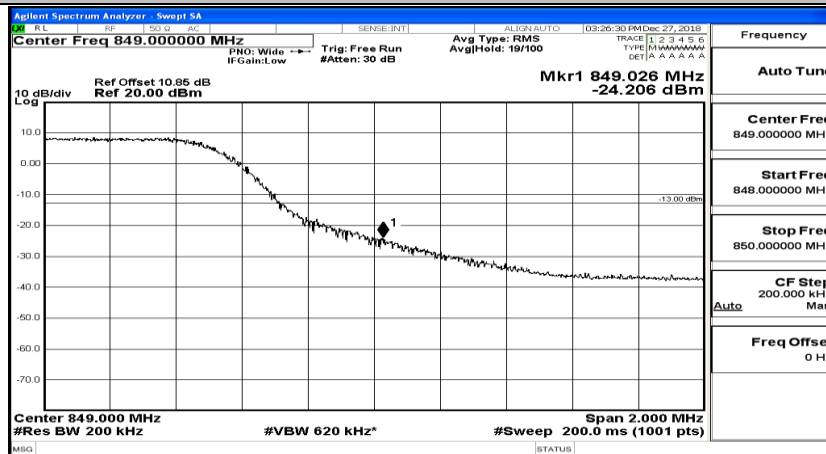
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



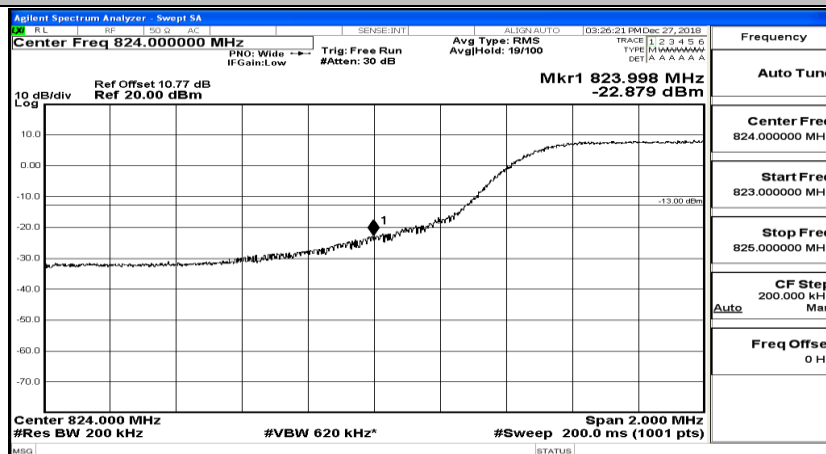
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



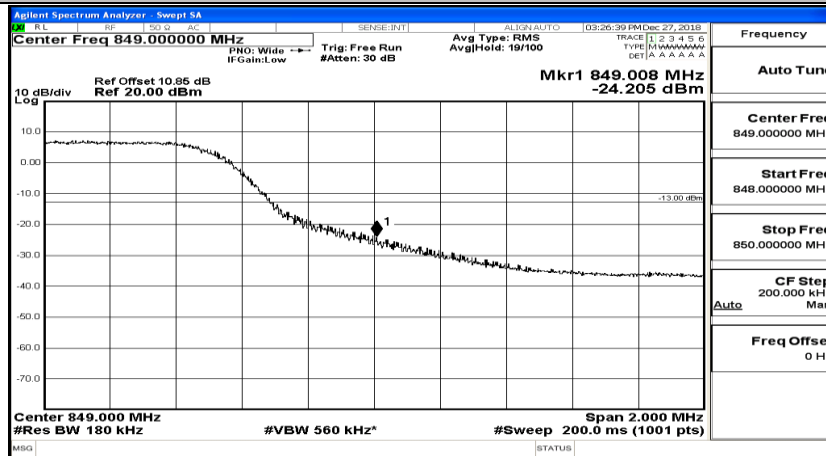
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK

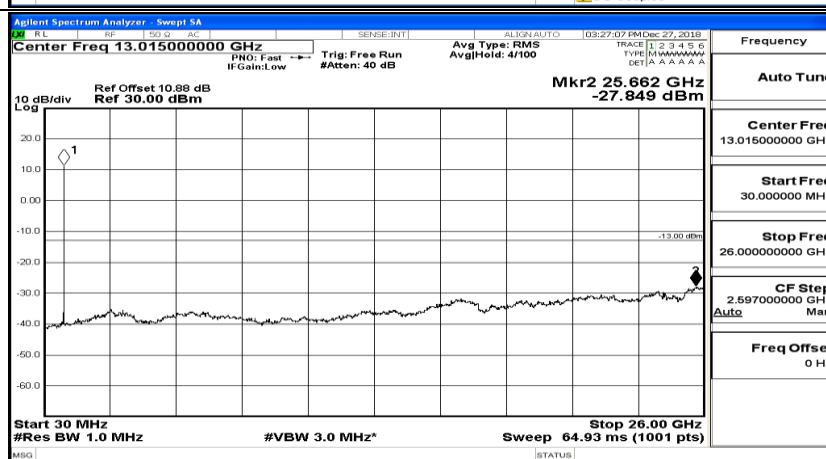
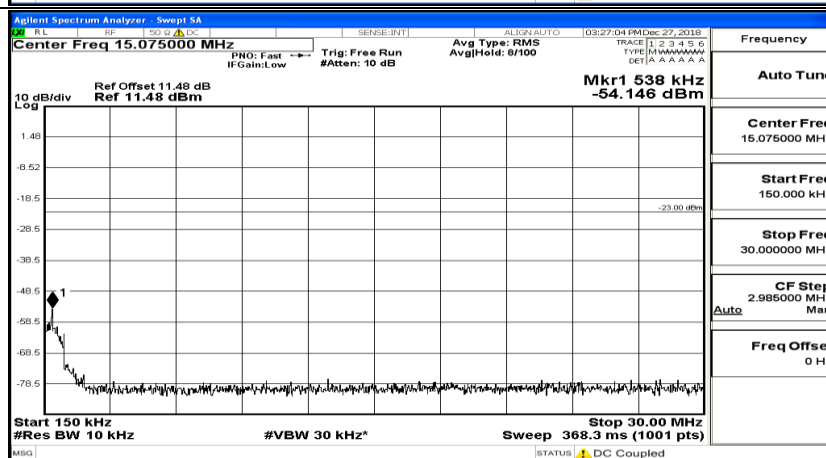
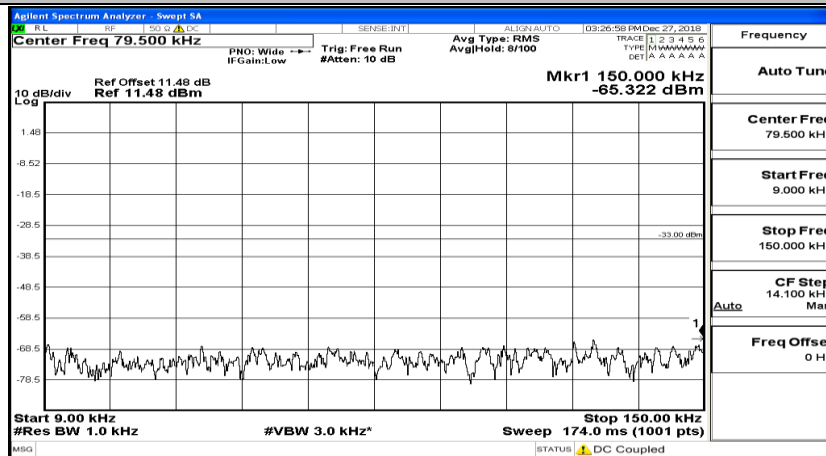


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



F.5 Conducted Spurious Emission**CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK**

CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK

