Appendix E: Test Data for E-UTRA Band 17

Product Name: LTE GSM/WCDMA Smartphone
Trade Mark: DOOGEE
Test Model: S70 Lite

Environmental Conditions

Temperature:	22.8
Relative Humidity:	53.2
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden Zhuo

E.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	23.27	22.57	PASS
		1	12	**23.66**	**22.89**	PASS
		1	24	23.26	22.58	PASS
		12	0	22.35	21.45	PASS
		12	6	22.43	21.52	PASS
		12	13	22.31	21.41	PASS
		25	0	22.35	21.34	PASS
	MCH	1	0	23.33	22.25	PASS
		1	12	23.65	22.36	PASS
		1	24	23.34	22.26	PASS
		12	0	22.35	21.36	PASS
		12	6	22.39	21.37	PASS
		12	13	22.32	21.34	PASS
		25	0	22.36	21.34	PASS
	HCH	1	0	23.21	22.30	PASS
		1	12	23.40	22.63	PASS
		1	24	23.22	22.24	PASS
		12	0	22.31	21.33	PASS
		12	6	22.38	21.38	PASS
		12	13	22.28	21.27	PASS
		25	0	22.29	21.31	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	23.26	22.49	PASS
		1	24	23.47	22.70	PASS
		1	49	23.27	22.50	PASS
		25	0	22.43	21.38	PASS
		25	12	22.40	21.34	PASS
		25	25	22.36	21.27	PASS
		50	0	22.38	21.32	PASS
	MCH	1	0	23.29	22.49	PASS
		1	24	23.52	22.71	PASS
		1	49	23.28	22.46	PASS
		25	0	22.46	21.41	PASS
		25	12	22.42	21.39	PASS
		25	25	22.37	21.34	PASS
		50	0	22.45	21.34	PASS
	HCH	1	0	23.29	22.61	PASS
		1	24	23.53	22.84	PASS
		1	49	23.30	22.61	PASS
		25	0	22.48	21.44	PASS
		25	12	22.42	21.37	PASS
		25	25	22.33	21.30	PASS
		50	0	22.38	21.34	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	4.99	<13	PASS
	MCH	5.05	<13	PASS
	HCH	4.94	<13	PASS
16QAM	LCH	5.83	<13	PASS
	MCH	5.86	<13	PASS
	HCH	5.76	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.14	<13	PASS
	MCH	5.1	<13	PASS
	HCH	5.14	<13	PASS
16QAM	LCH	5.91	<13	PASS
	MCH	5.89	<13	PASS
	HCH	5.89	<13	PASS

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK
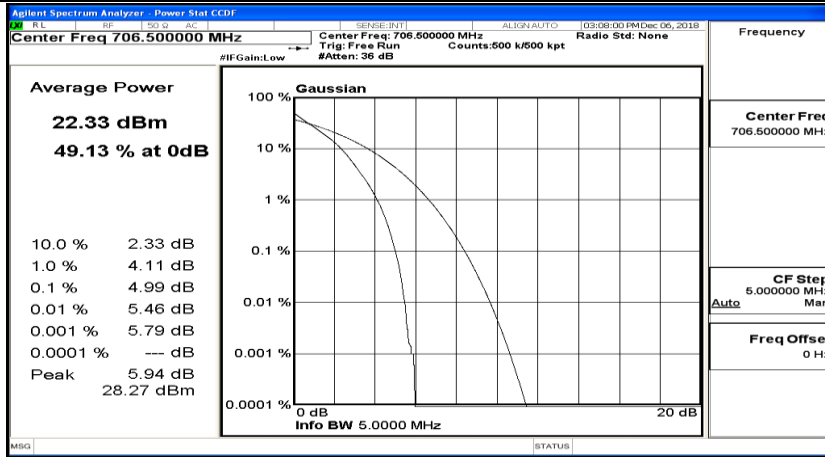
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK
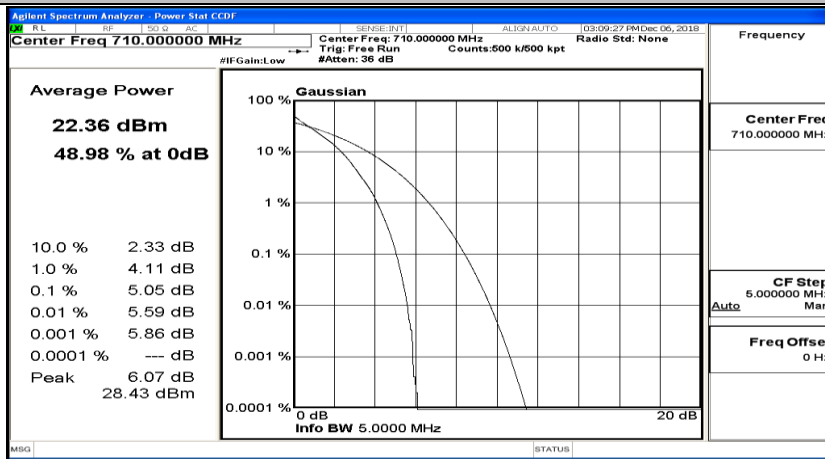
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK
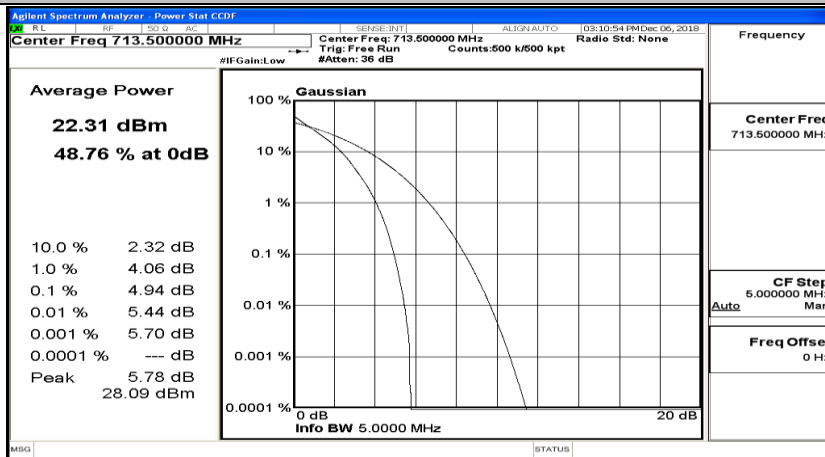
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
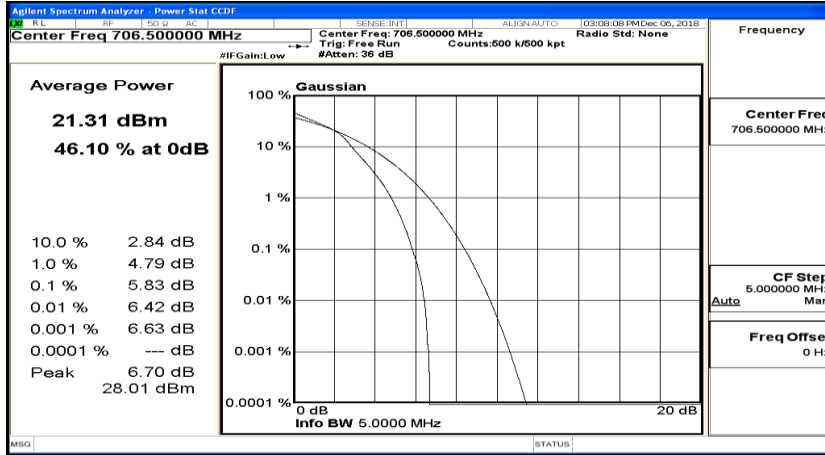
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM
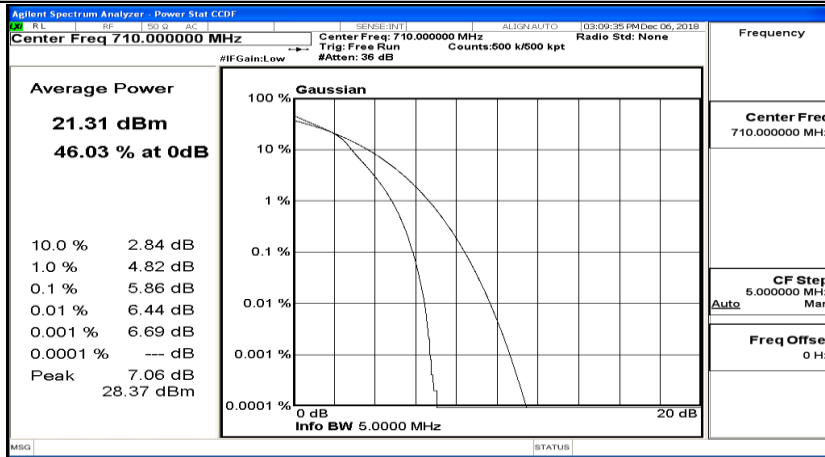
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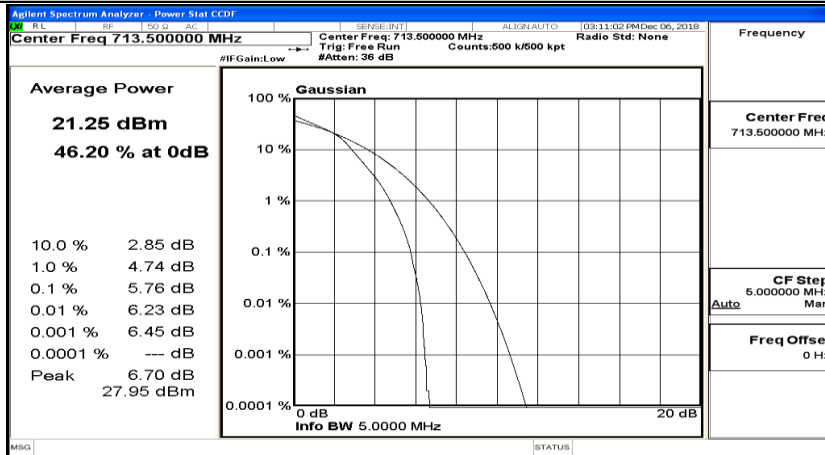
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK
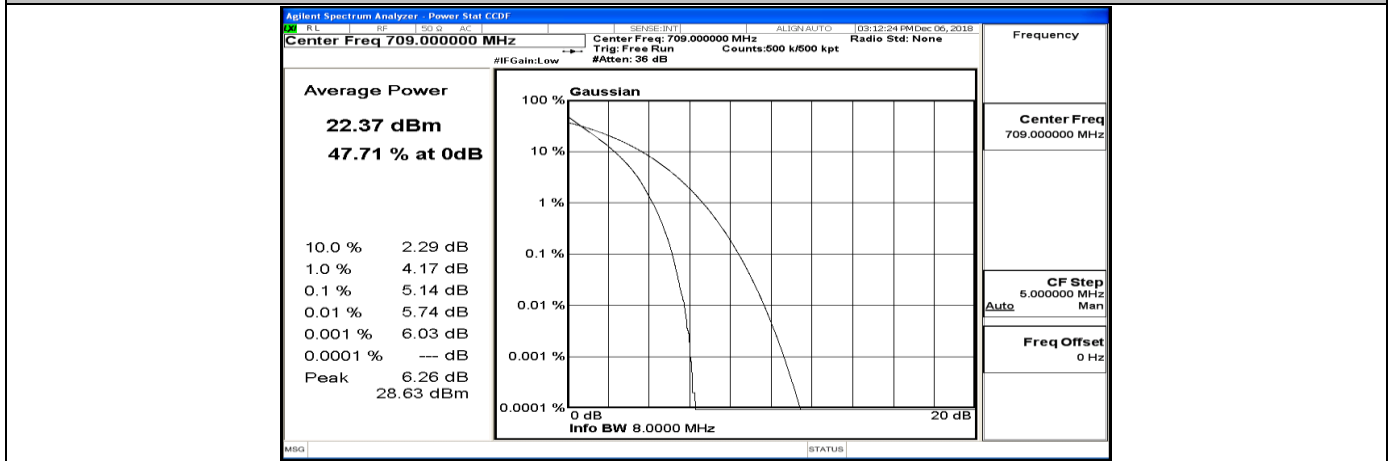
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK
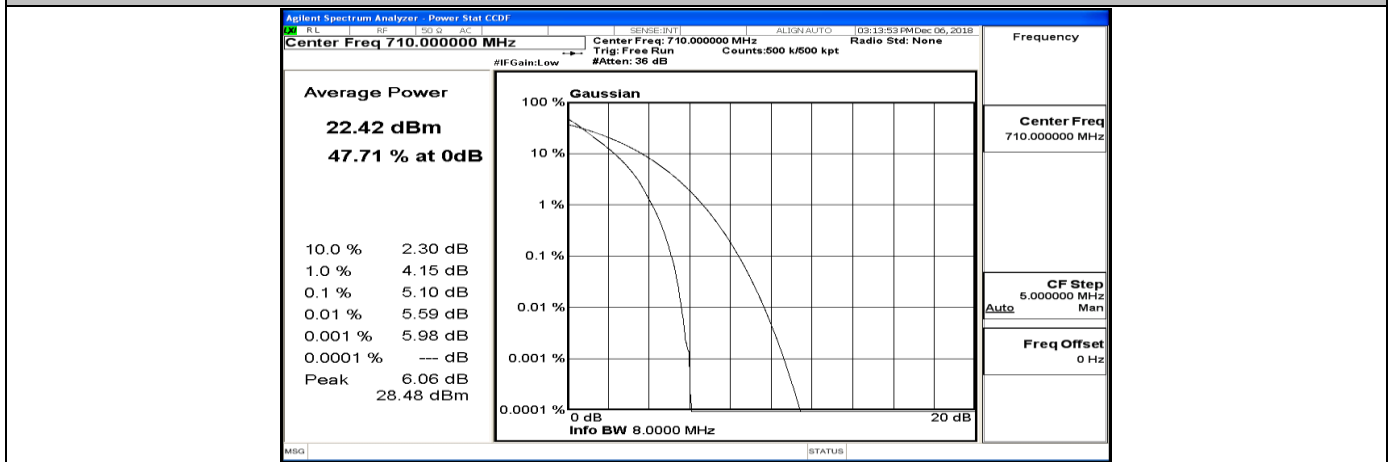
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK
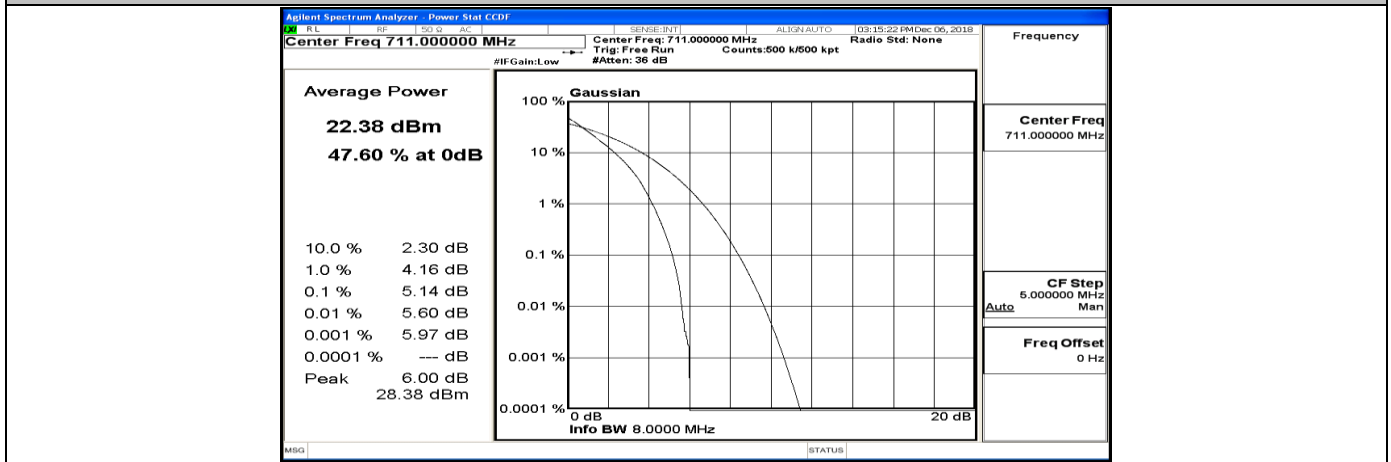
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM
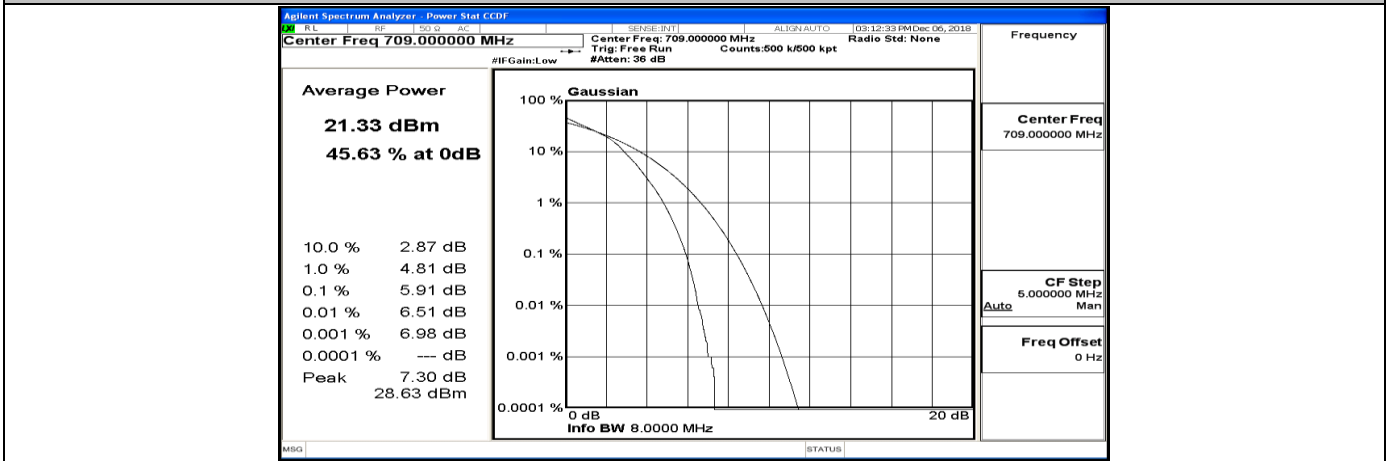
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM
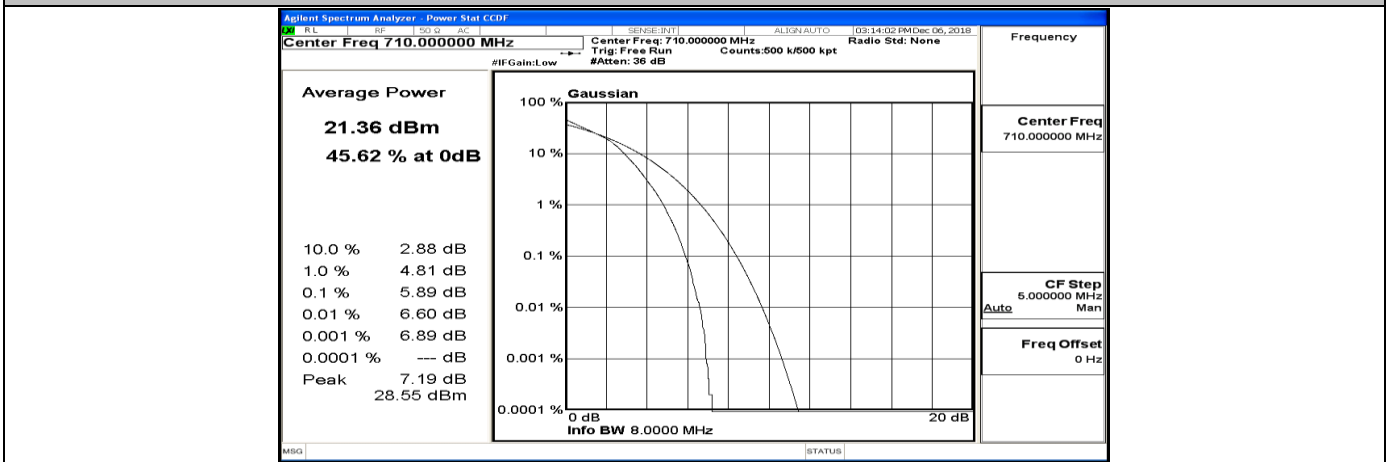
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM
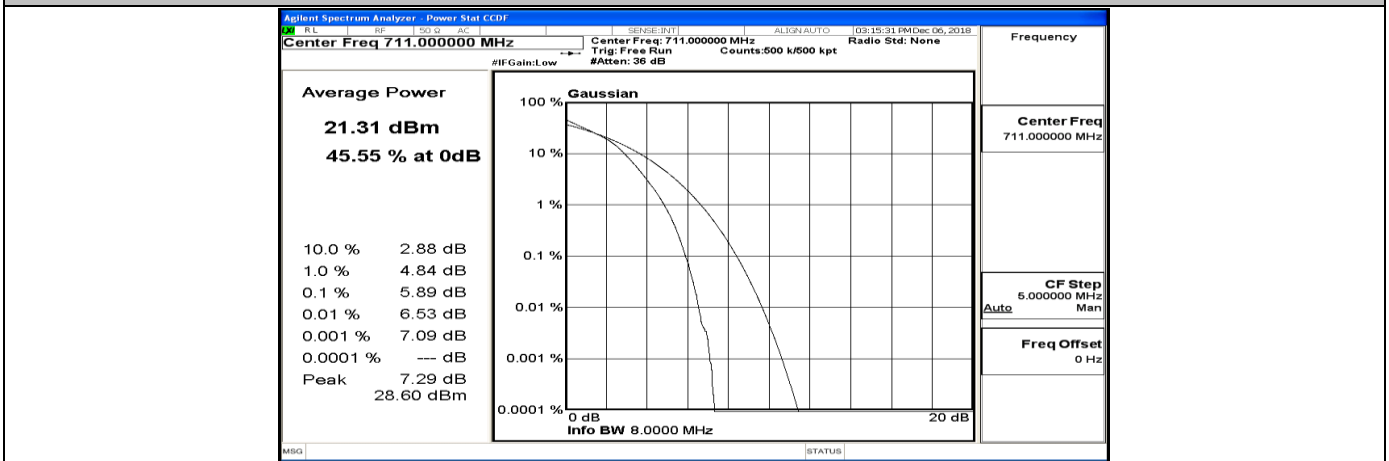
E.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4753	4.836	PASS
	MCH	4.4695	4.923	PASS
	HCH	4.4823	4.884	PASS
16QAM	LCH	4.4616	4.885	PASS
	MCH	4.4869	4.853	PASS
	HCH	4.4766	4.891	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9398	9.537	PASS
	MCH	8.9469	9.548	PASS
	HCH	8.9356	9.512	PASS
16QAM	LCH	8.9334	9.536	PASS
	MCH	8.9399	9.539	PASS
	HCH	8.9496	9.476	PASS

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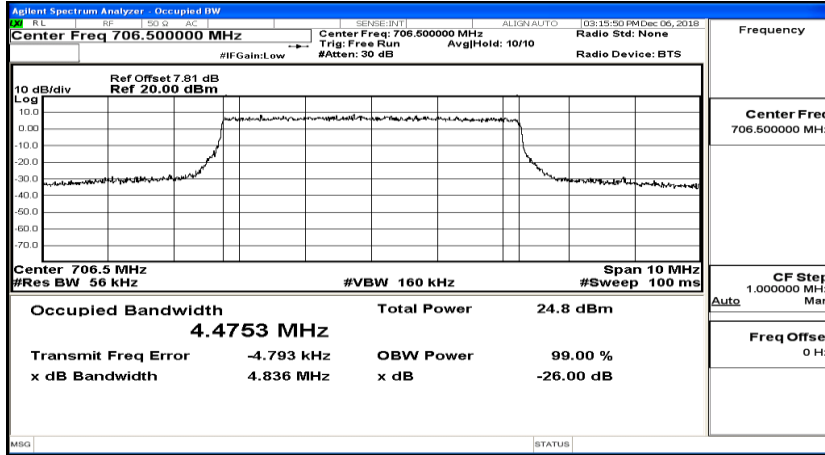
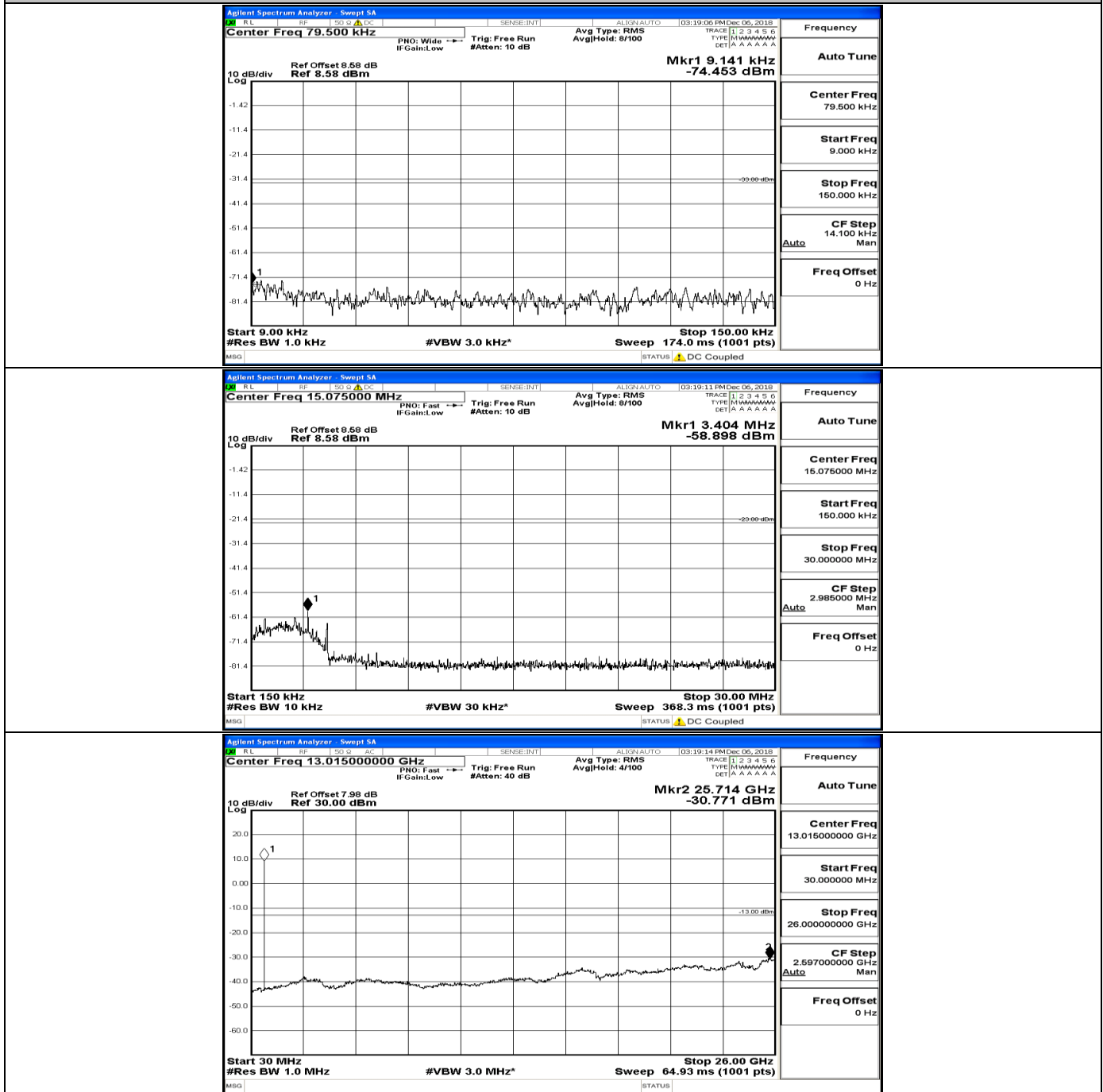| EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK |
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EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
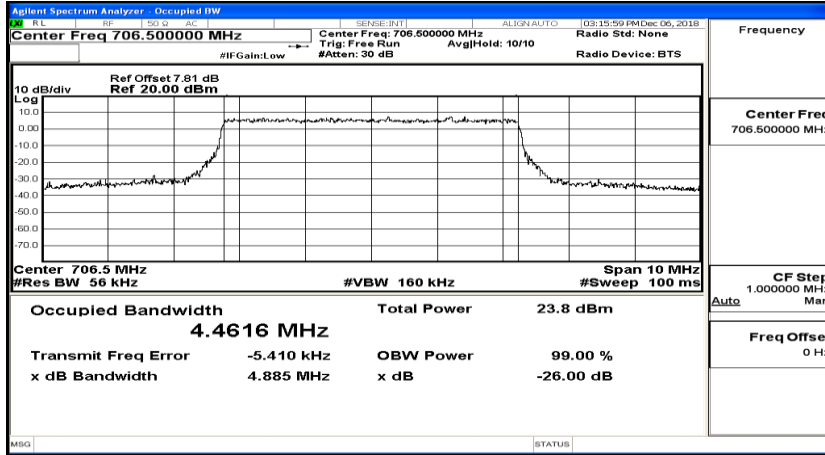
| Occupied Bandwidth		Total Power	23.8 dBm
	4.4616 MHz		
Transmit Freq Error	-5.410 kHz	OBW Power	99.00 %
x dB Bandwidth	4.885 MHz	x dB	-26.00 dB

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

| Occupied Bandwidth		Total Power	23.8 dBm
	4.4869 MHz		
Transmit Freq Error	-6.933 kHz	OBW Power	99.00 %
x dB Bandwidth	4.853 MHz	x dB	-26.00 dB

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

Occupied Bandwidth		Total Power	23.7 dBm
	4.4766 MHz		
Transmit Freq Error	-3.611 kHz	OBW Power	99.00 %
x dB Bandwidth	4.891 MHz	x dB	-26.00 dB
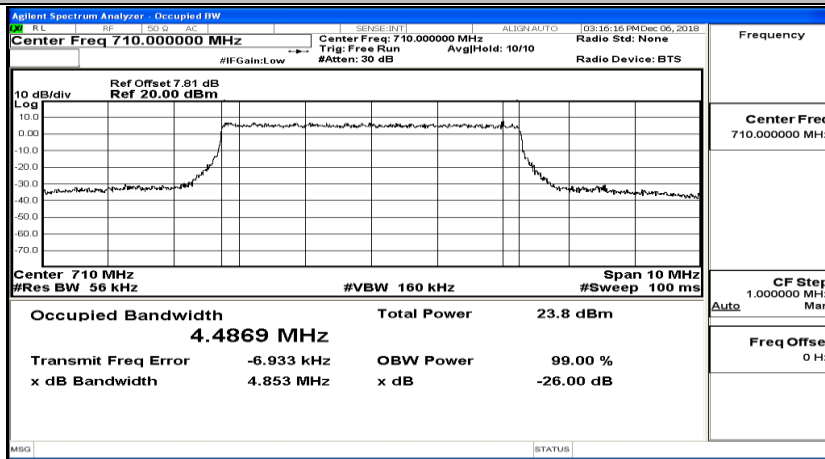
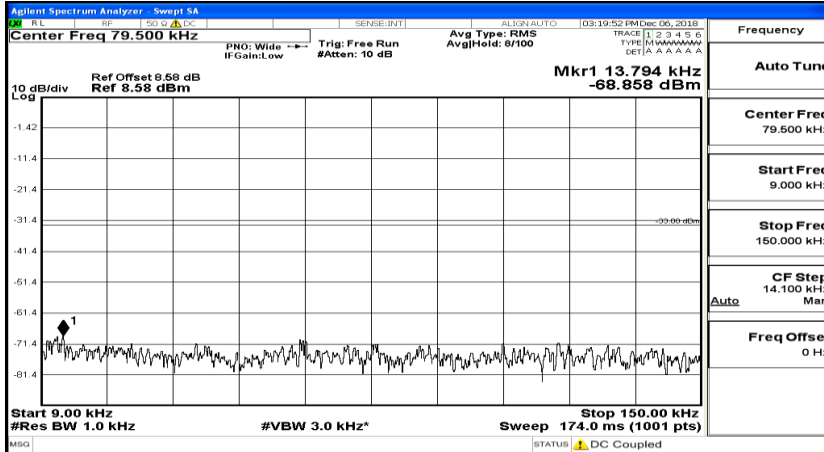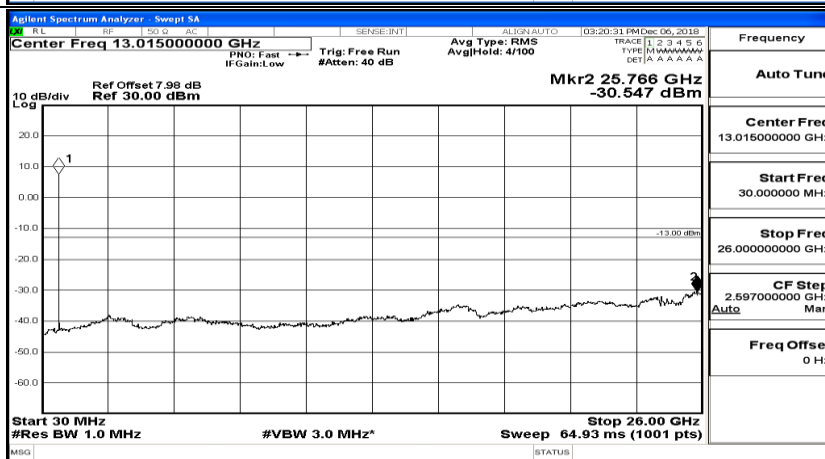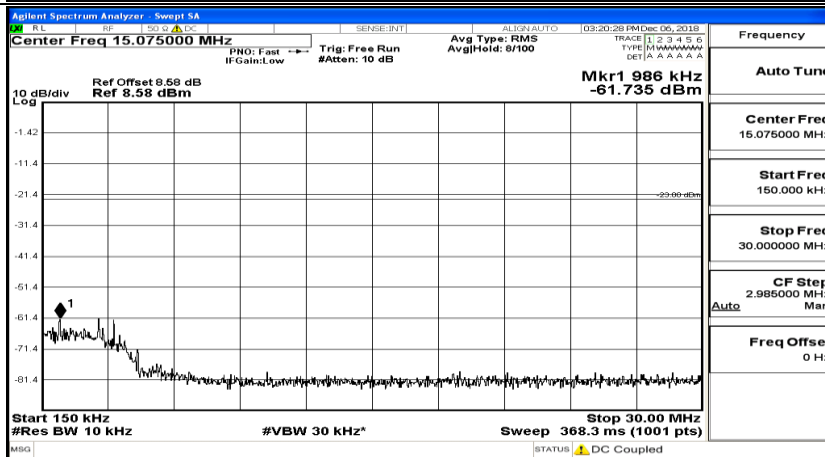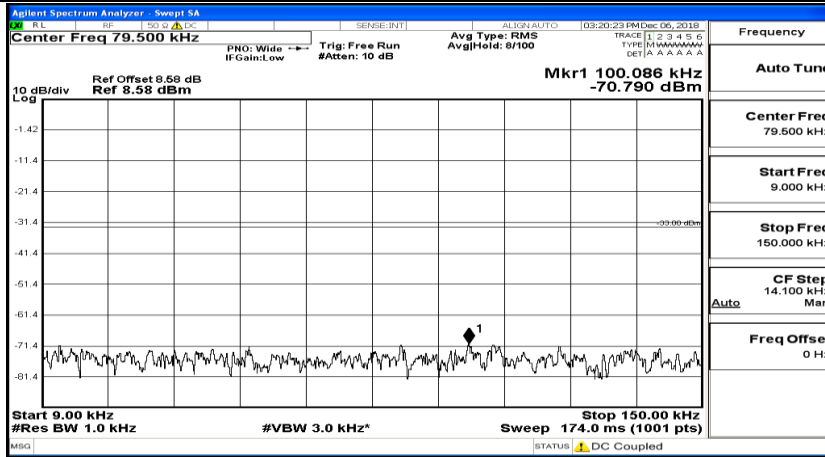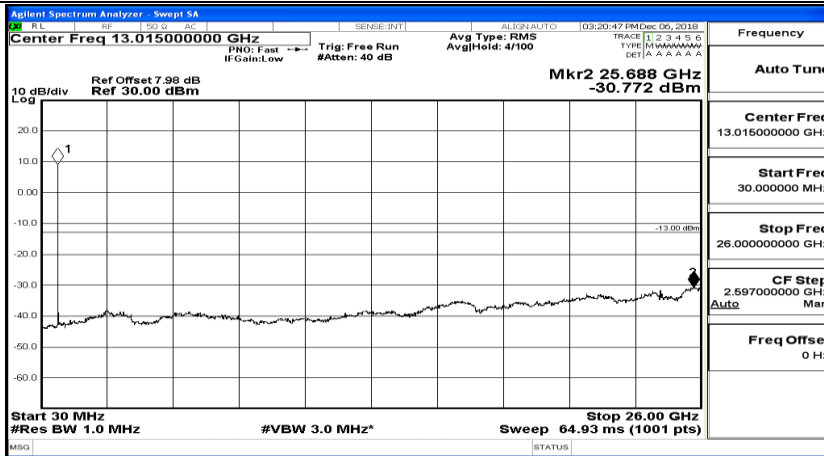| EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK |
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EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK
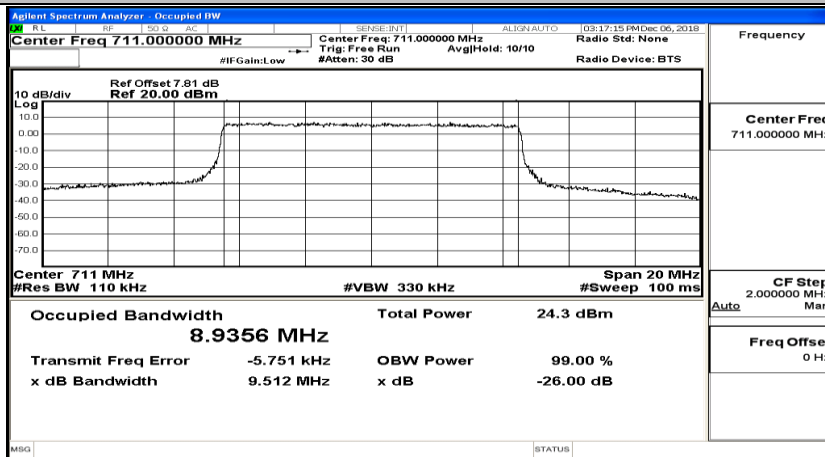
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM
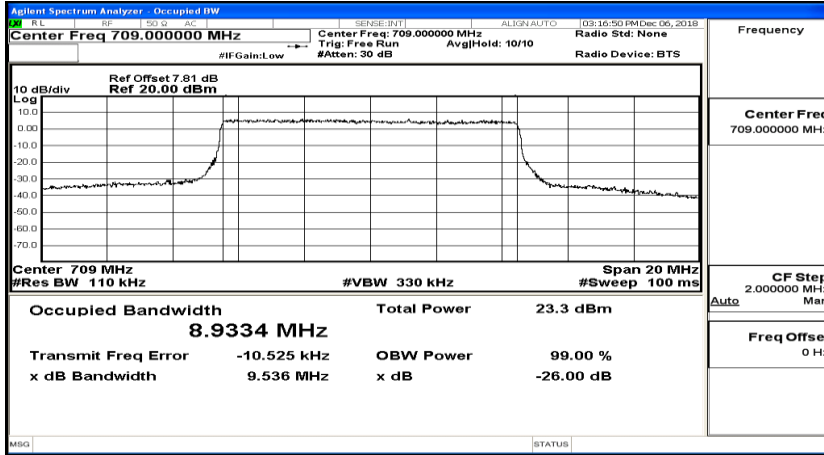
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM
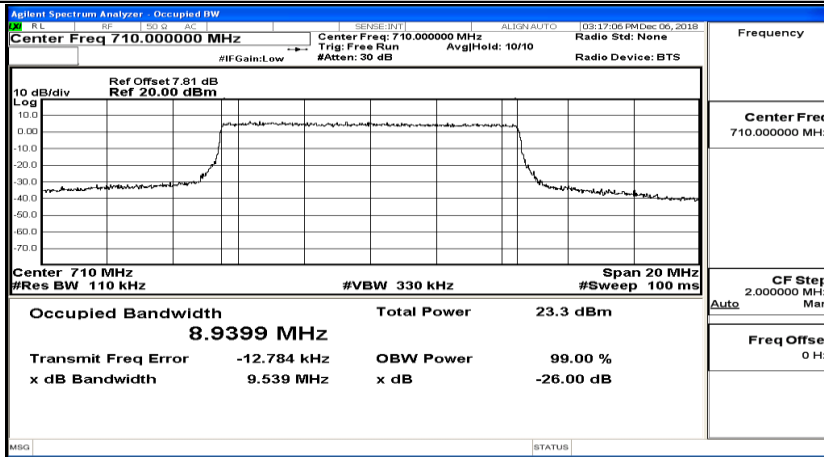
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM
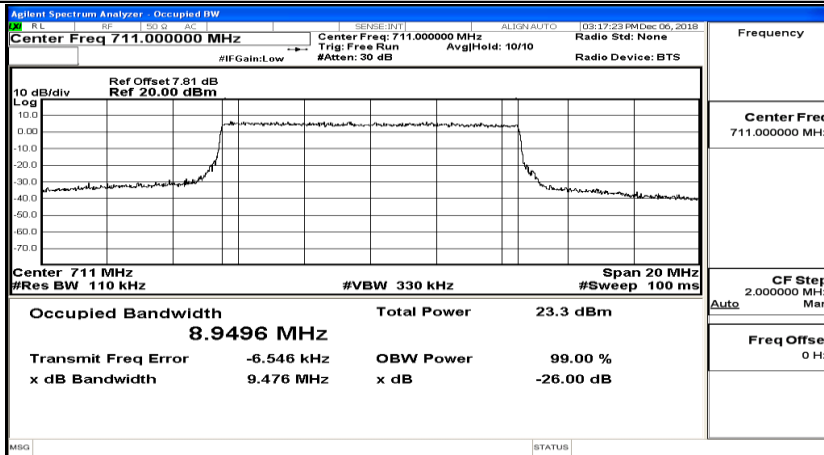
E.4 Band Edge

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK
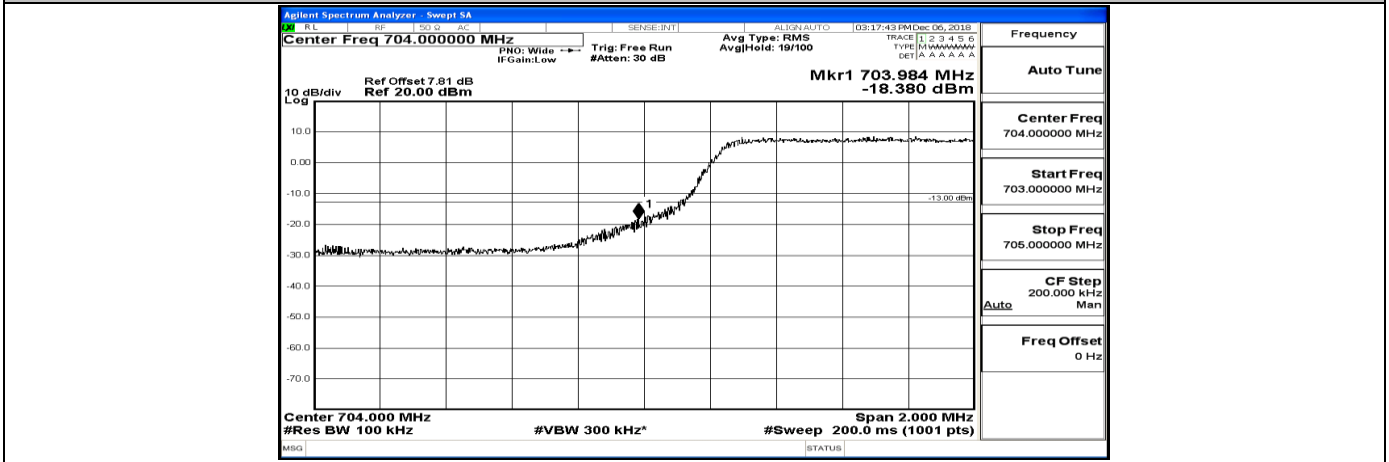
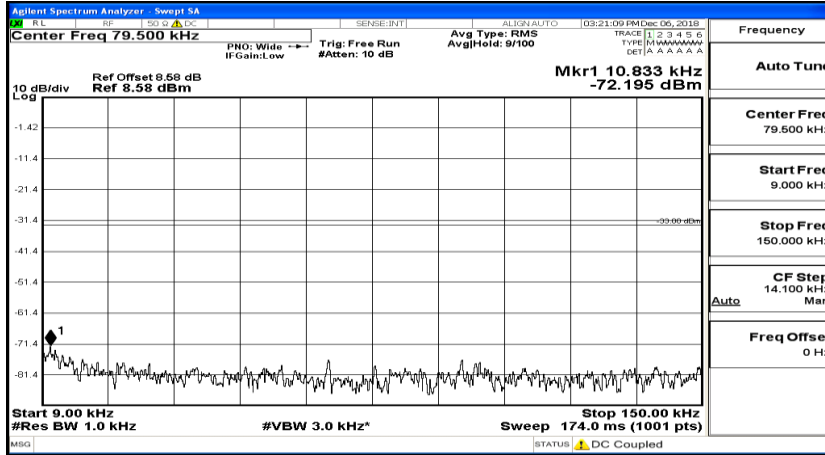| Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK |
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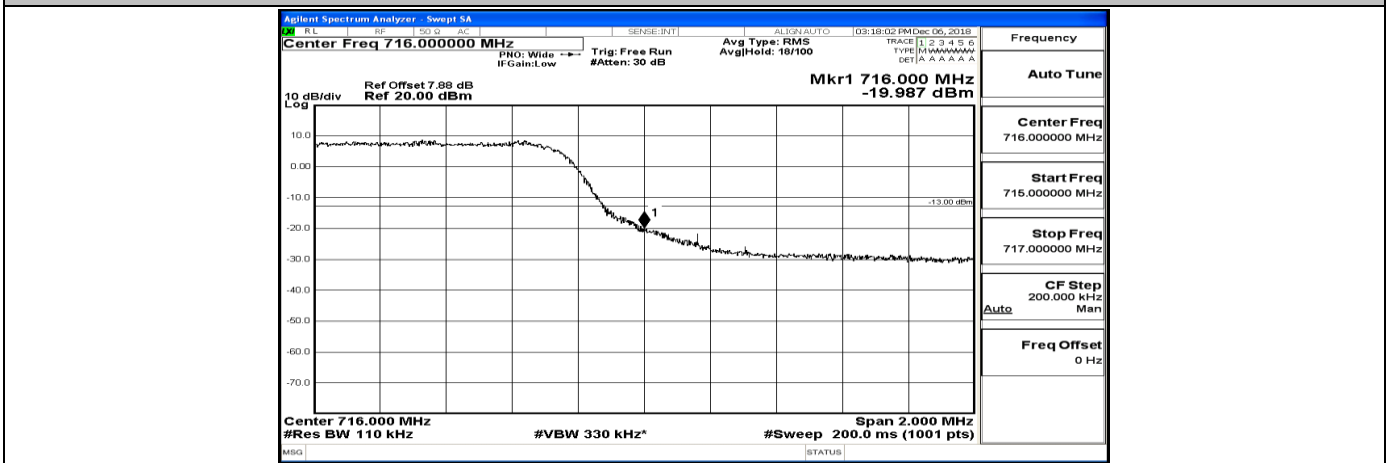
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
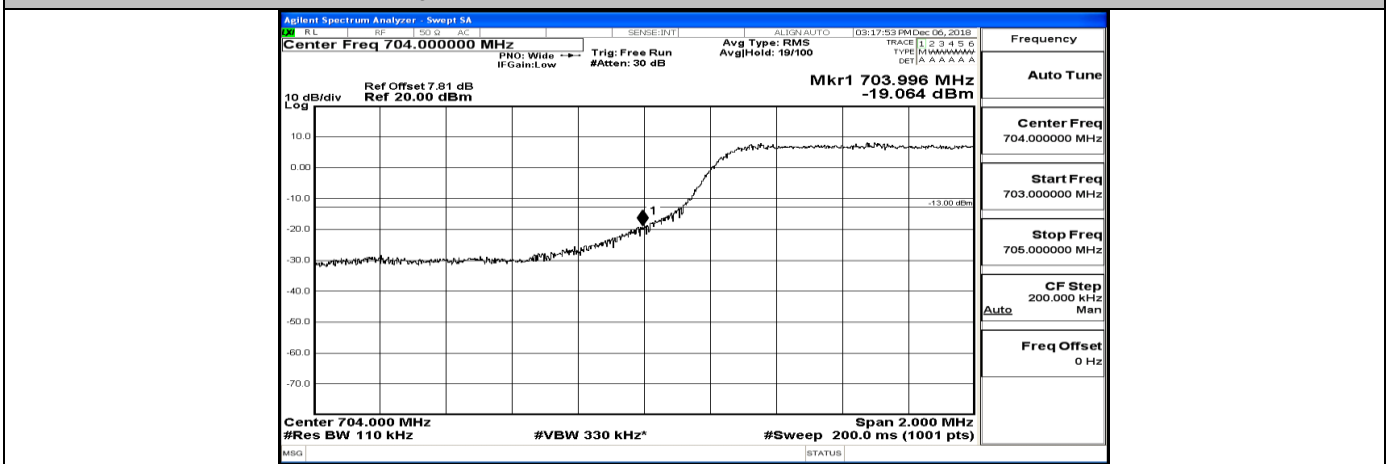
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM
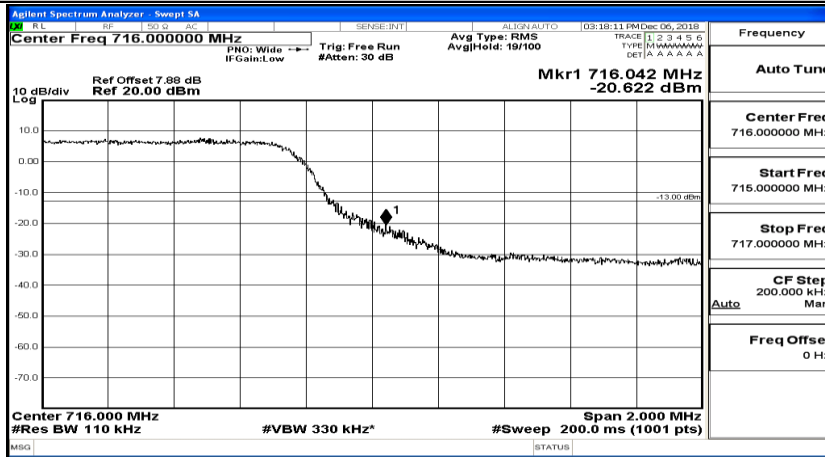
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK
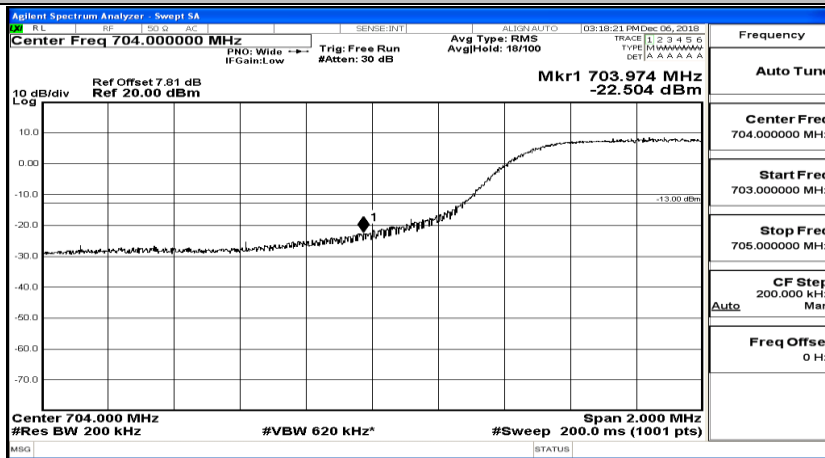
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK
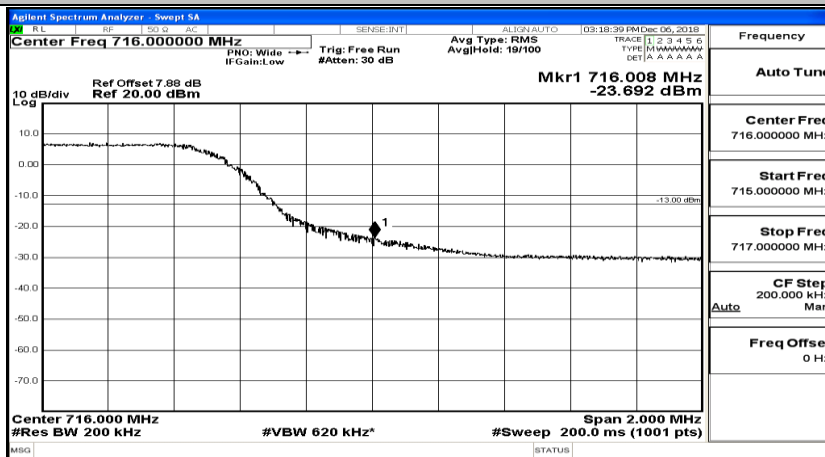
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM
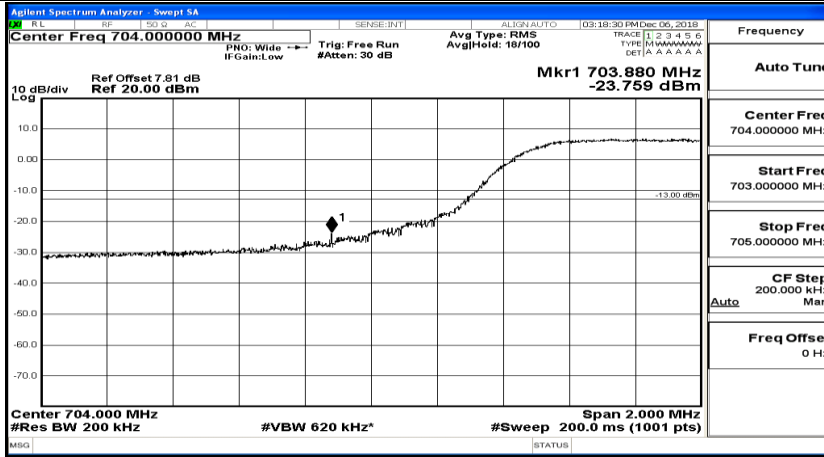
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM
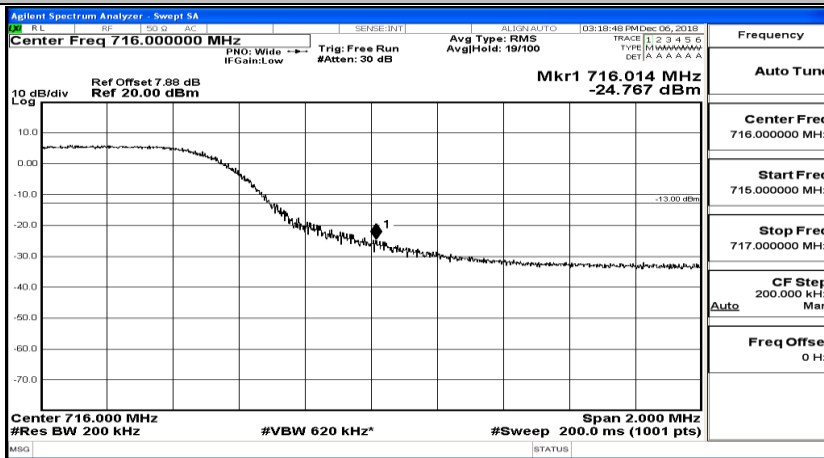
E.5 Conducted Spurious Emission

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

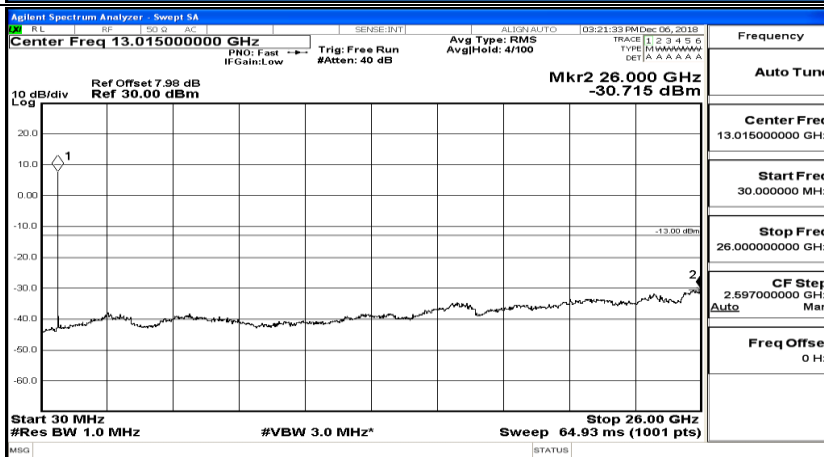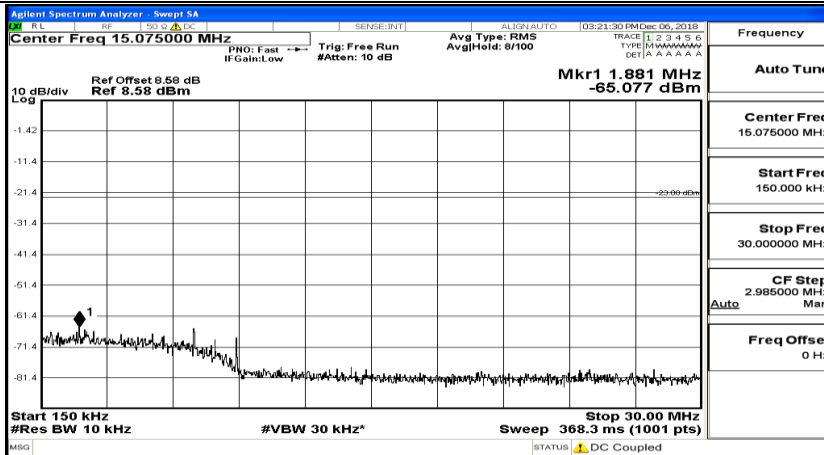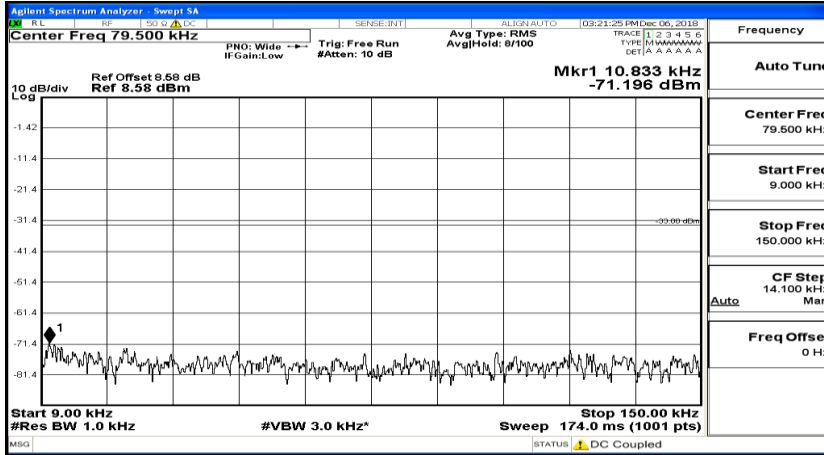## CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK
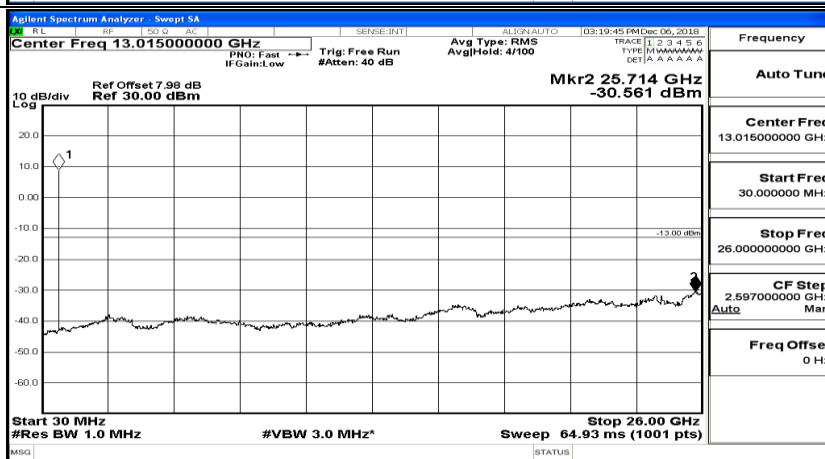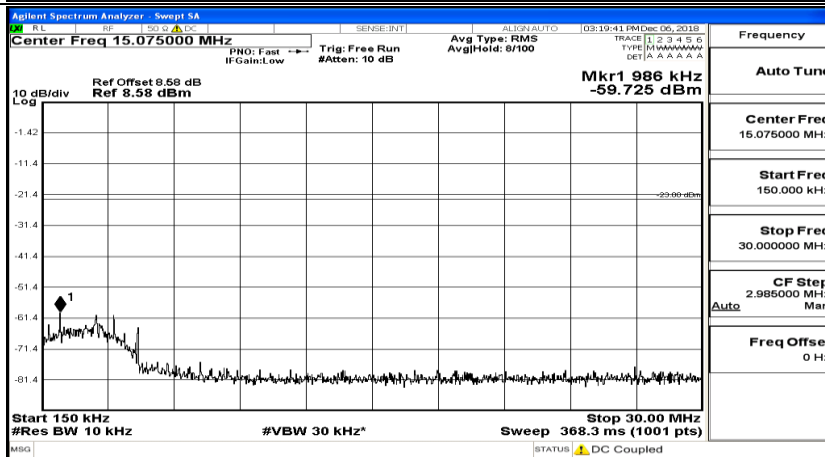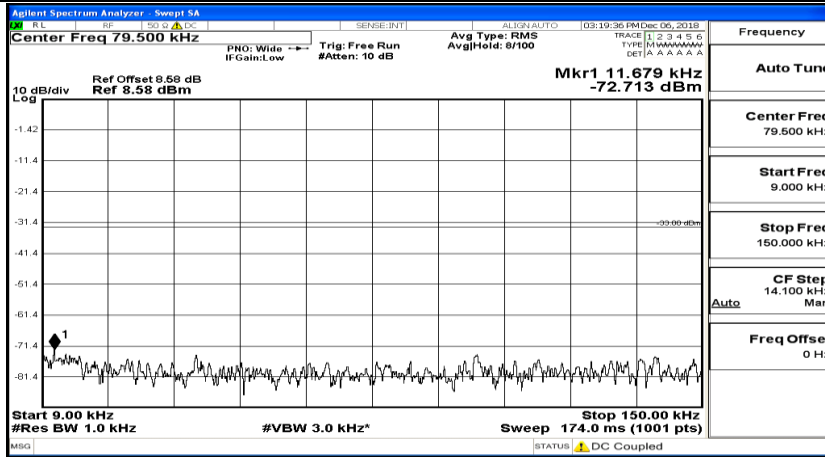
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK
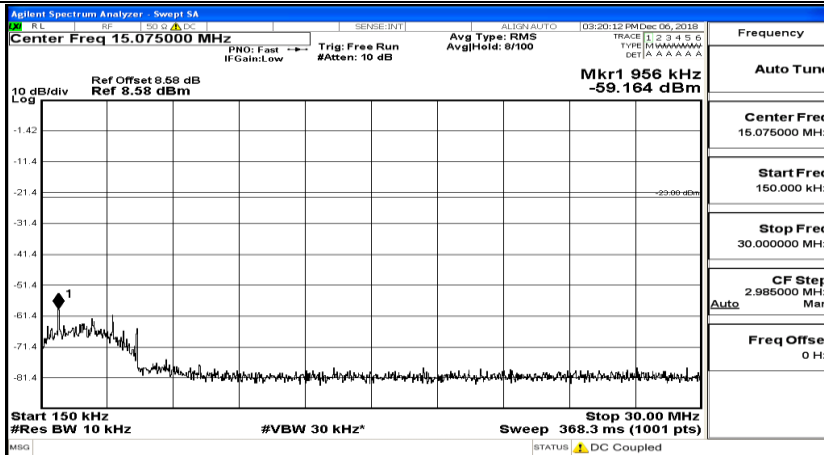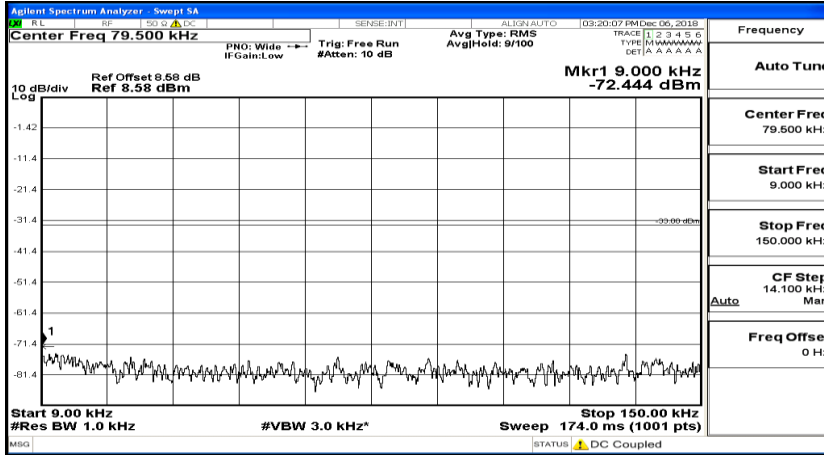
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
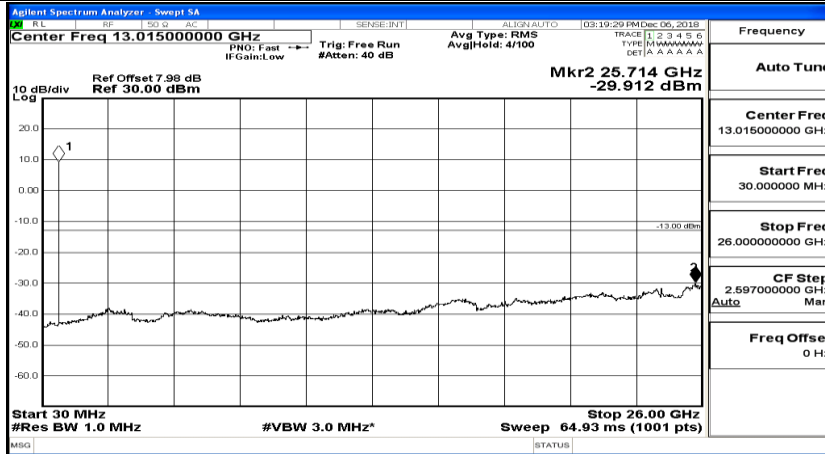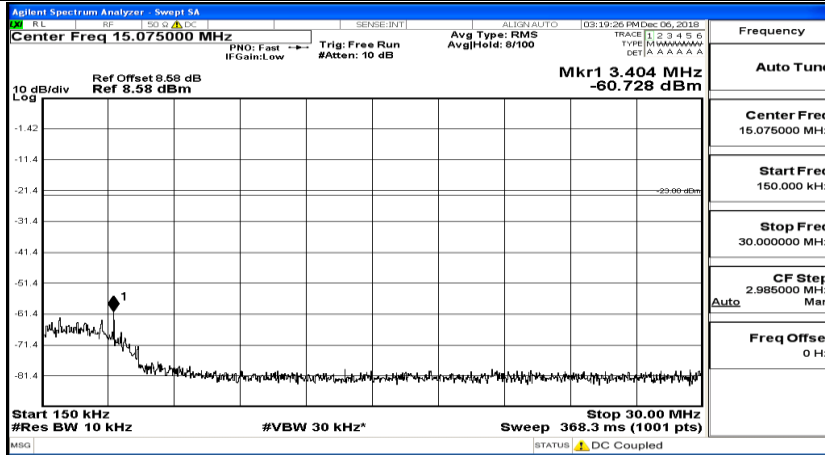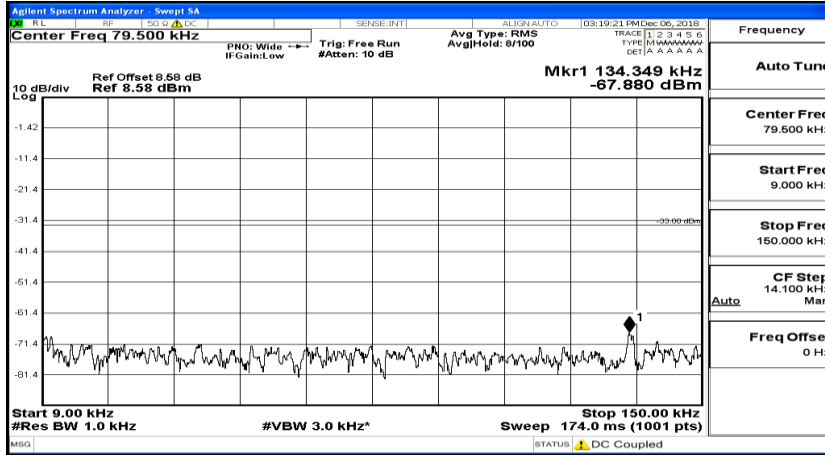
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM
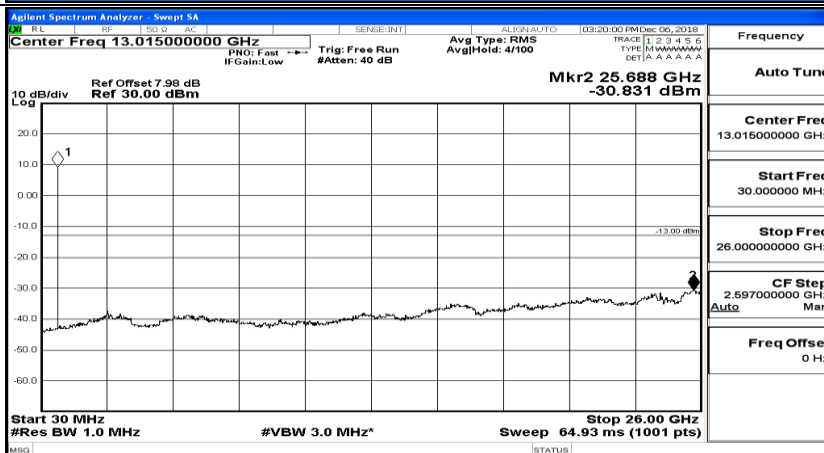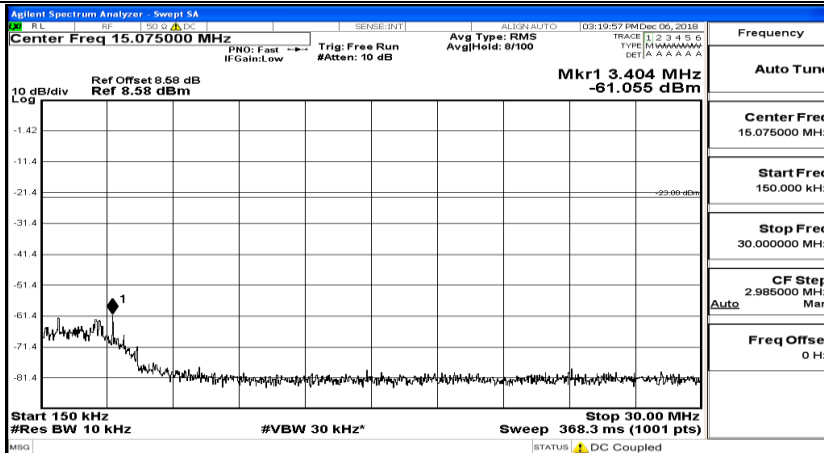
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM

CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK

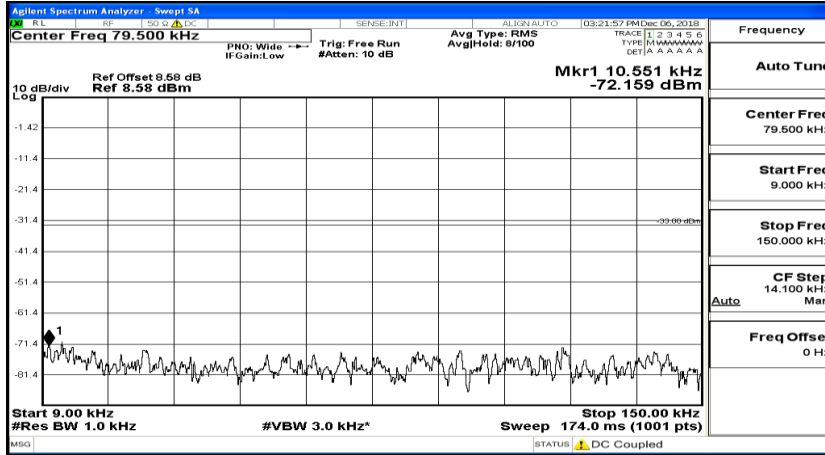| CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK |
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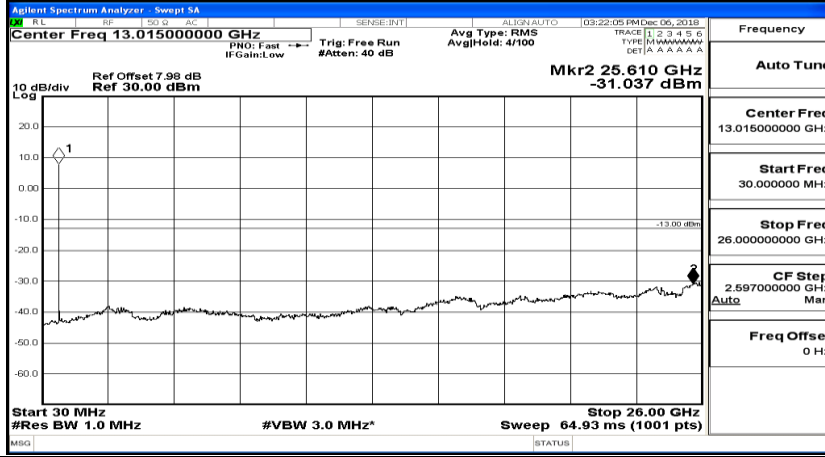| CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM |
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CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM