

## Appendix E: Test Data for E-UTRA Band 17

Product Name: LTE GSM/WCDMA Smartphone

Trade Mark: DOOGEE

Test Model: S90

### Environmental Conditions

Temperature:	23.9
Relative Humidity:	52.8
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]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.93	22.31	PASS
		1	12	23.20	22.88	PASS
		1	24	22.96	22.42	PASS
		12	0	22.04	21.13	PASS
		12	6	22.07	21.20	PASS
		12	13	22.00	21.14	PASS
		25	0	22.01	21.04	PASS
	MCH	1	0	22.99	22.05	PASS
		1	12	23.18	22.38	PASS
		1	24	23.04	22.14	PASS
		12	0	22.04	21.07	PASS
		12	6	22.09	21.10	PASS
		12	13	21.97	21.03	PASS
		25	0	22.02	21.04	PASS
	HCH	1	0	22.82	22.17	PASS
		1	12	23.24	22.42	PASS
		1	24	22.95	22.10	PASS
		12	0	22.05	21.05	PASS
		12	6	22.09	21.13	PASS
		12	13	22.02	21.09	PASS
		25	0	22.07	21.12	PASS

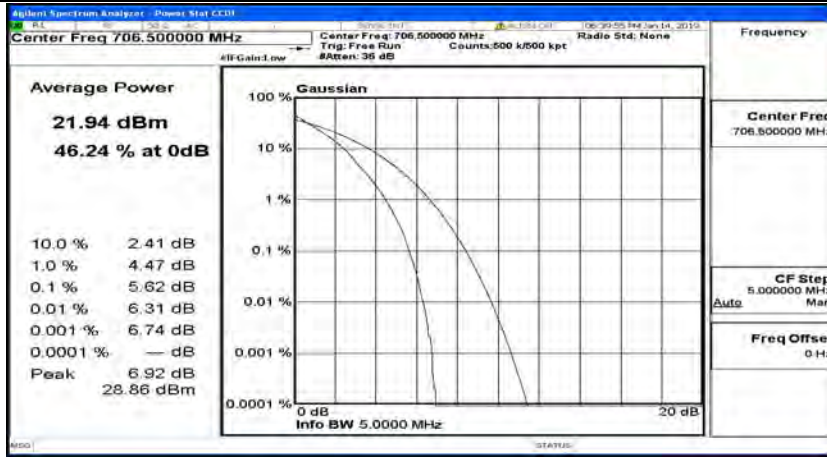
Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.85	22.33	PASS
		1	24	23.20	22.66	PASS
		1	49	23.03	22.47	PASS
		25	0	22.14	21.19	PASS
		25	12	22.14	21.23	PASS
		25	25	22.13	21.15	PASS
		50	0	22.17	21.14	PASS
	MCH	1	0	23.06	22.38	PASS
		1	24	23.28	22.59	PASS
		1	49	23.17	22.46	PASS
		25	0	22.21	21.18	PASS
		25	12	22.20	21.17	PASS
		25	25	22.11	21.13	PASS
		50	0	22.14	21.08	PASS
	HCH	1	0	23.10	22.47	PASS
		1	24	23.31	22.76	PASS
		1	49	23.13	22.61	PASS
		25	0	22.28	21.26	PASS
		25	12	22.24	21.25	PASS
		25	25	22.22	21.17	PASS
		50	0	22.23	21.20	PASS

**E.2 Peak-to-Average Ratio**

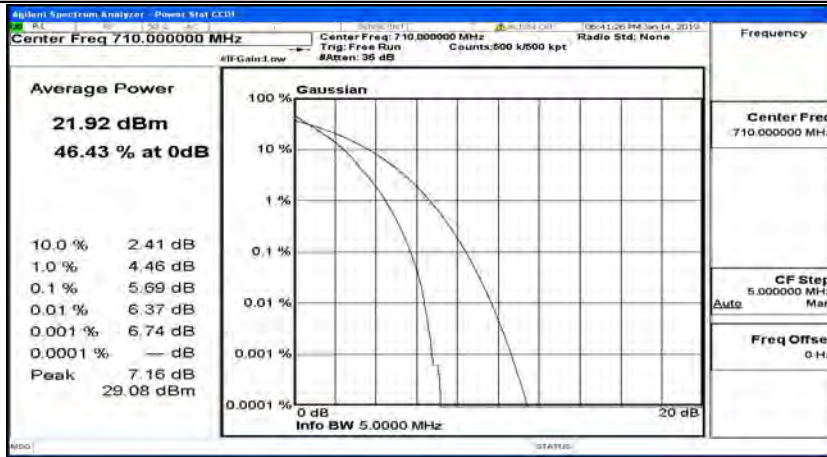
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.62	<13	PASS
	MCH	5.69	<13	PASS
	HCH	5.7	<13	PASS
16QAM	LCH	6.46	<13	PASS
	MCH	6.5	<13	PASS
	HCH	6.48	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.63	<13	PASS
	MCH	5.58	<13	PASS
	HCH	5.68	<13	PASS
16QAM	LCH	6.39	<13	PASS
	MCH	6.38	<13	PASS
	HCH	6.4	<13	PASS

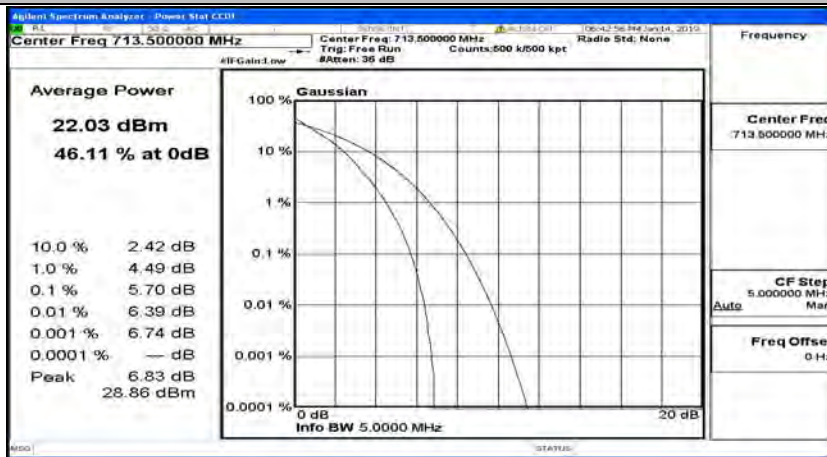
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



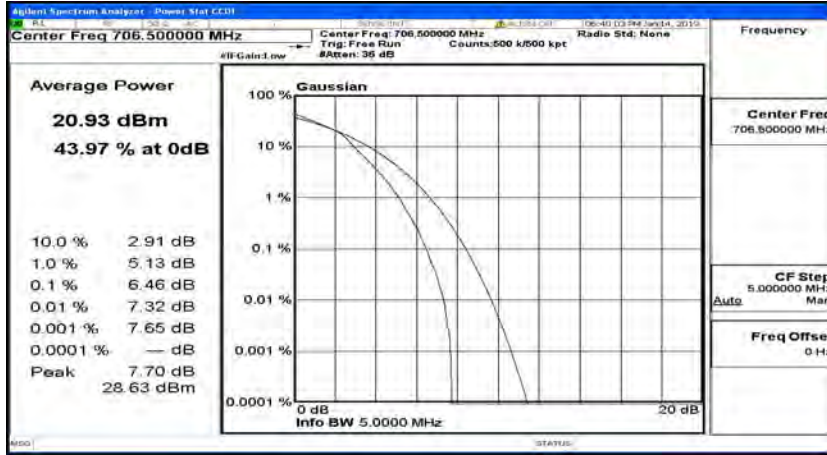
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



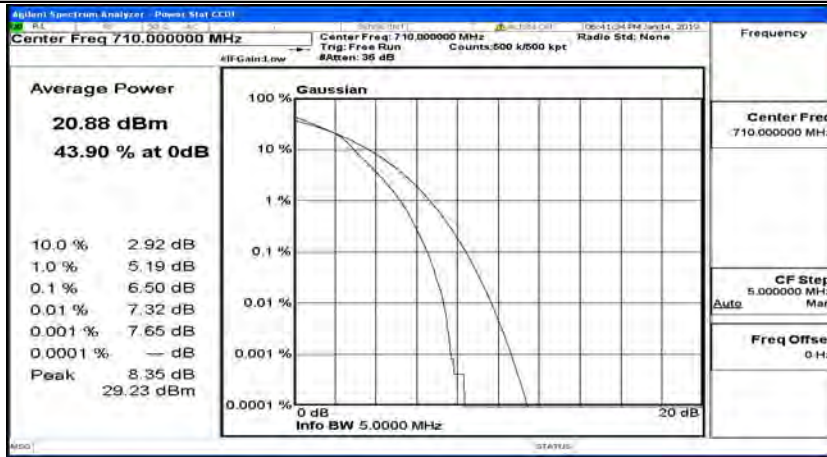
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



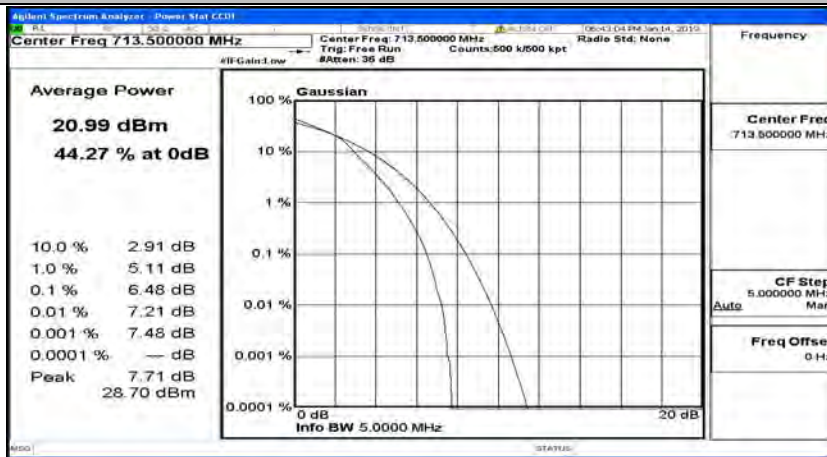
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



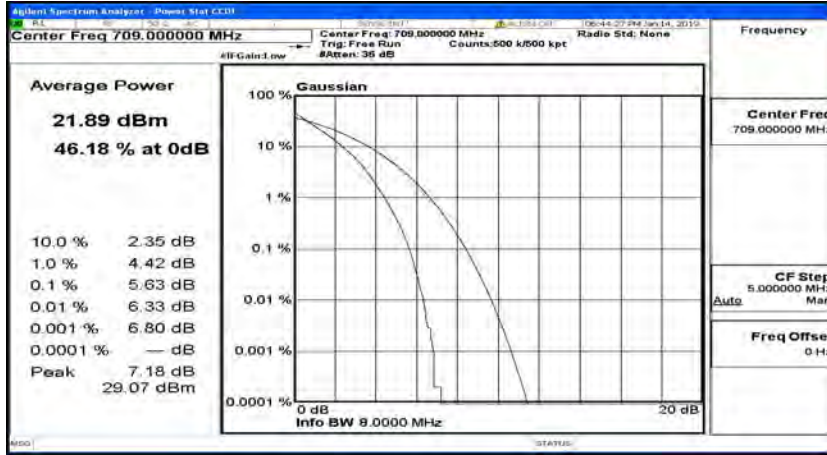
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



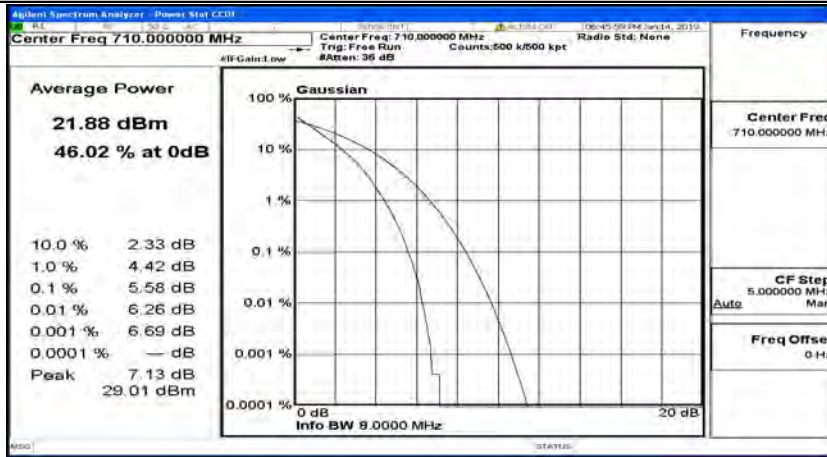
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



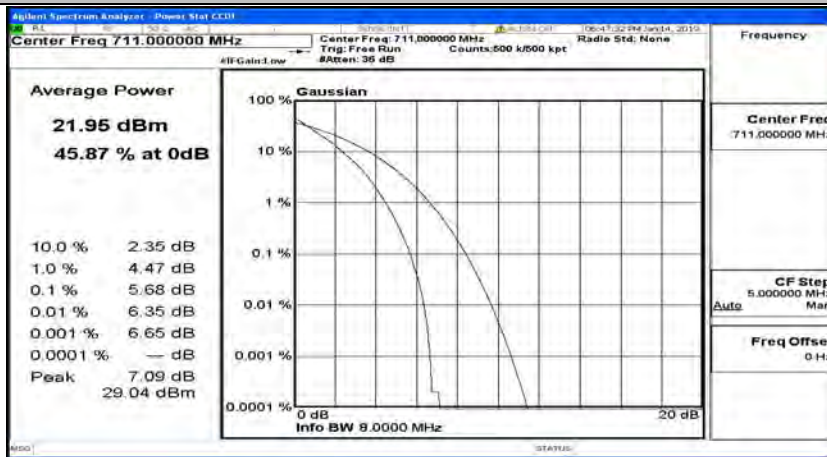
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) \_LCH\_QPSK



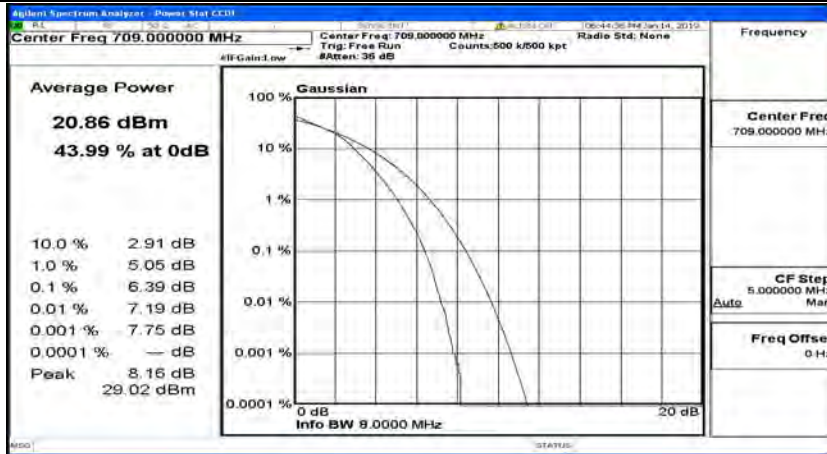
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) \_MCH\_QPSK



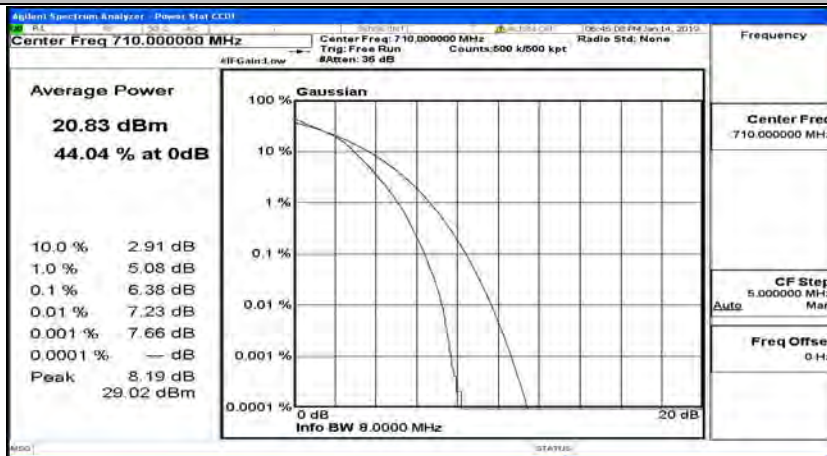
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) \_HCH\_QPSK



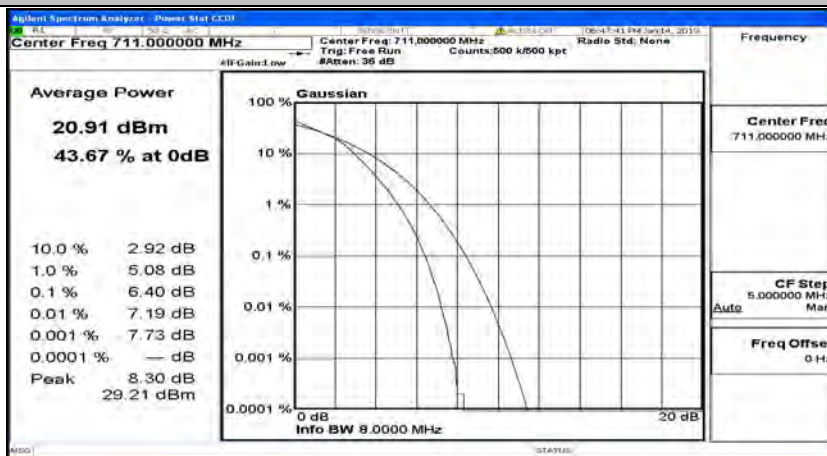
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



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



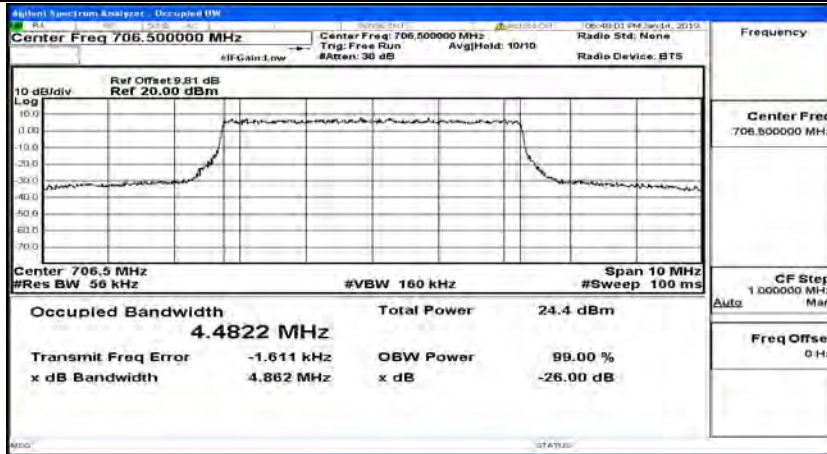
**E.3 26dB Bandwidth and Occupied Bandwidth**

<b>EBW &amp; OBW Test Result (Channel Bandwidth: 5 MHz)</b>				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4822	4.862	PASS
	MCH	4.4758	4.891	PASS
	HCH	4.4773	4.864	PASS
16QAM	LCH	4.4778	4.903	PASS
	MCH	4.4781	4.864	PASS
	HCH	4.4795	4.843	PASS

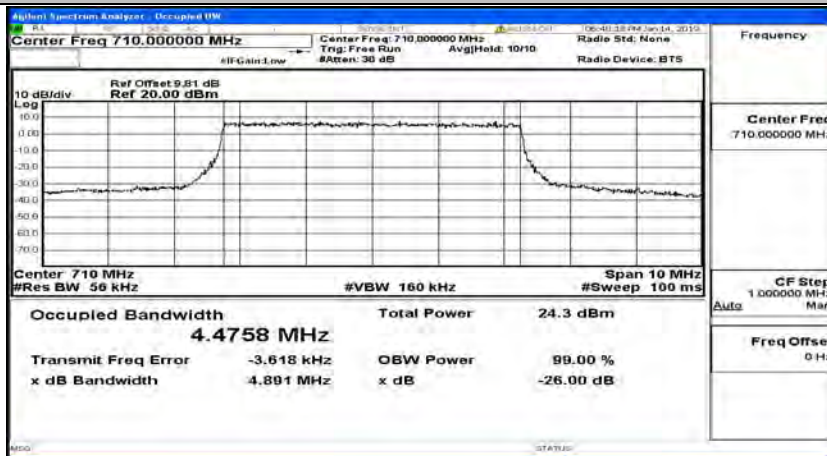
<b>EBW &amp; OBW Test Result (Channel Bandwidth: 10 MHz)</b>				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9464	9.473	PASS
	MCH	8.9314	9.481	PASS
	HCH	8.9382	9.579	PASS
16QAM	LCH	8.9434	9.466	PASS
	MCH	8.9400	9.606	PASS
	HCH	8.9524	9.531	PASS



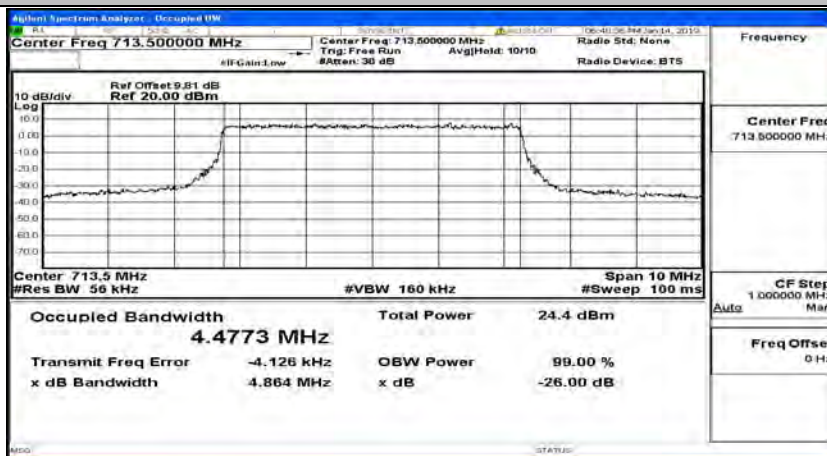
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



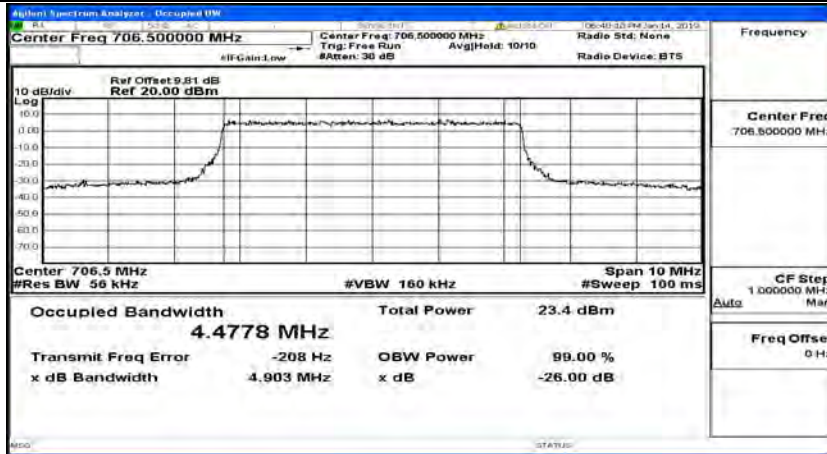
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



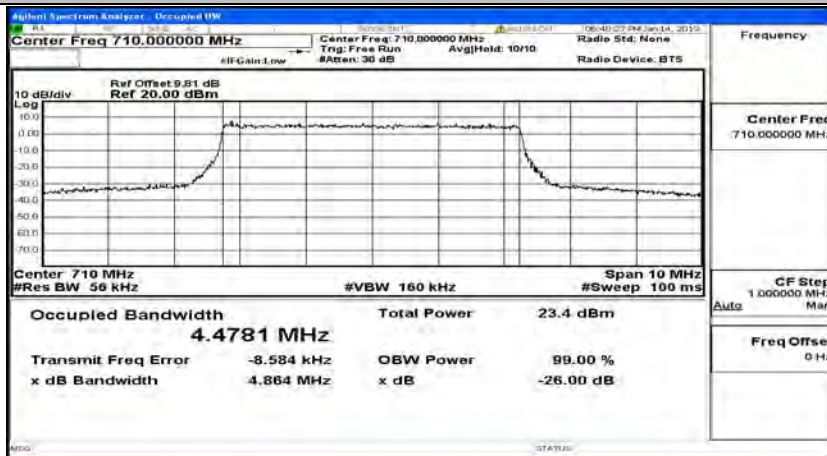
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



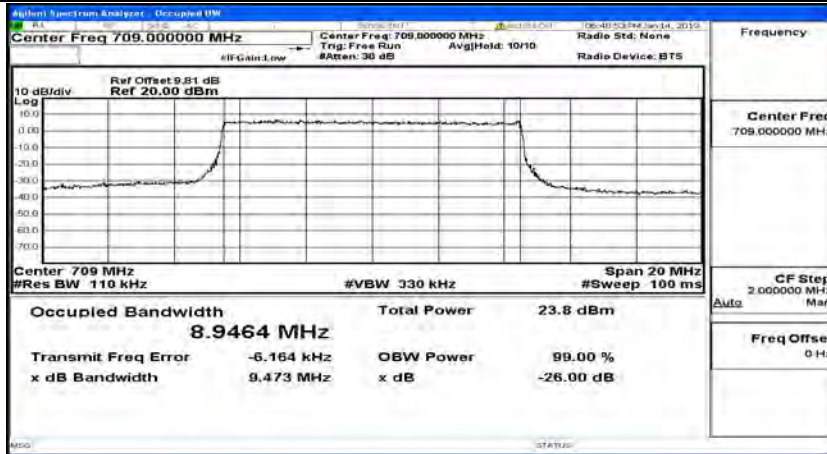
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



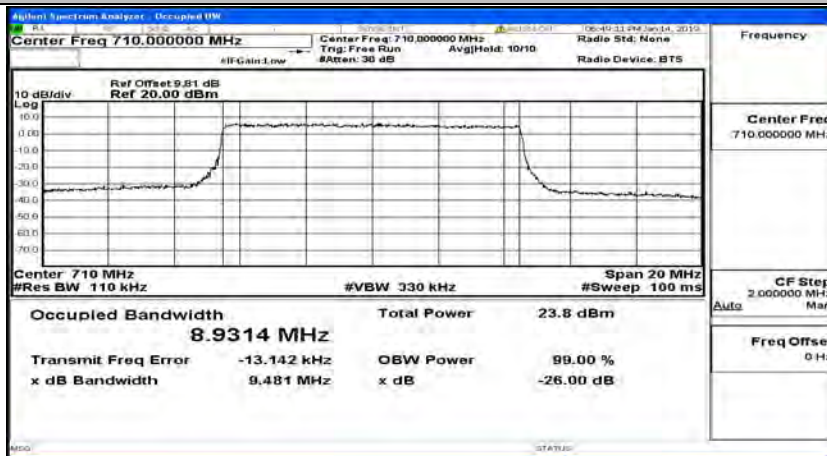
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



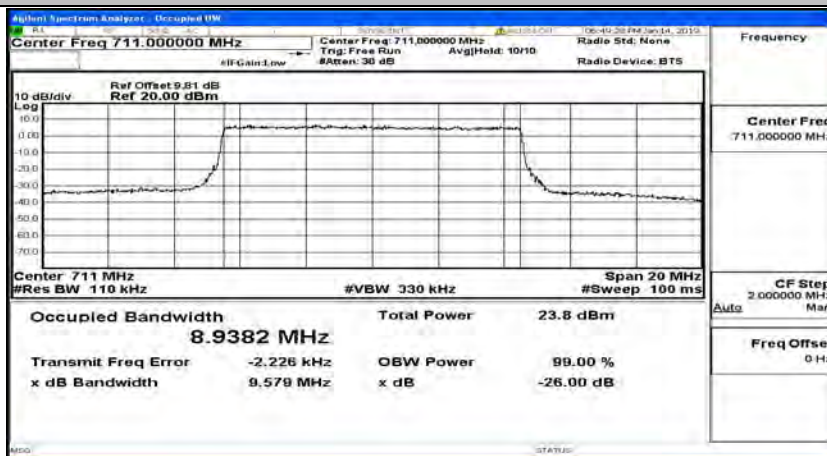
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz) LCH\_QPSK



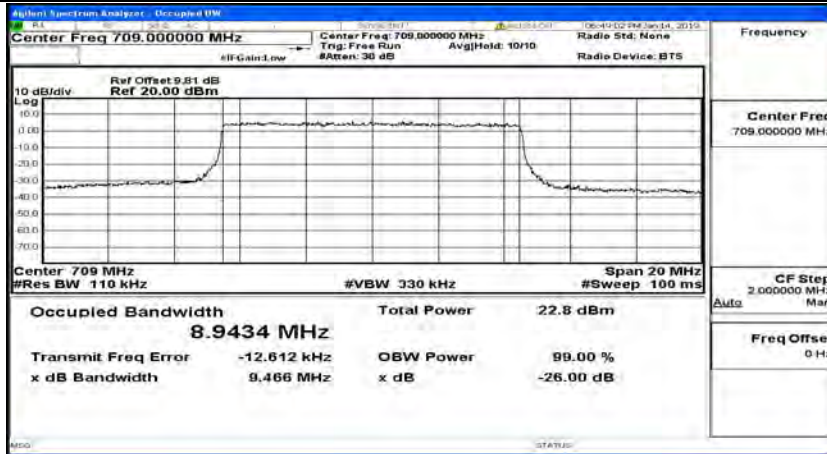
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz) MCH\_QPSK



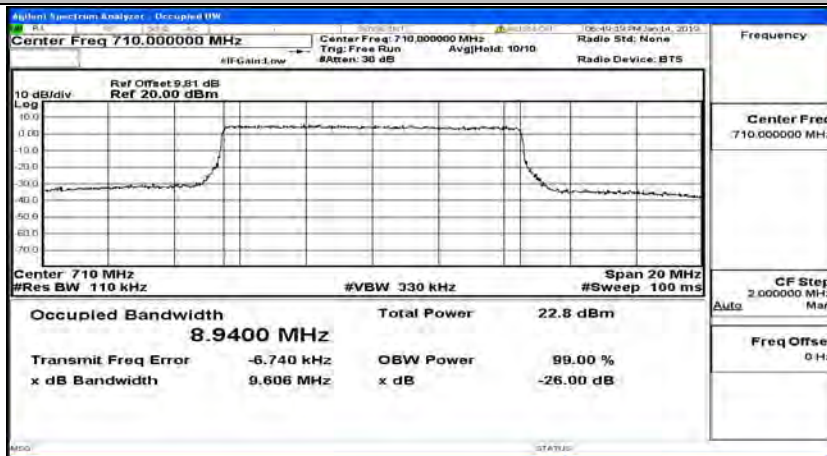
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz) HCH\_QPSK



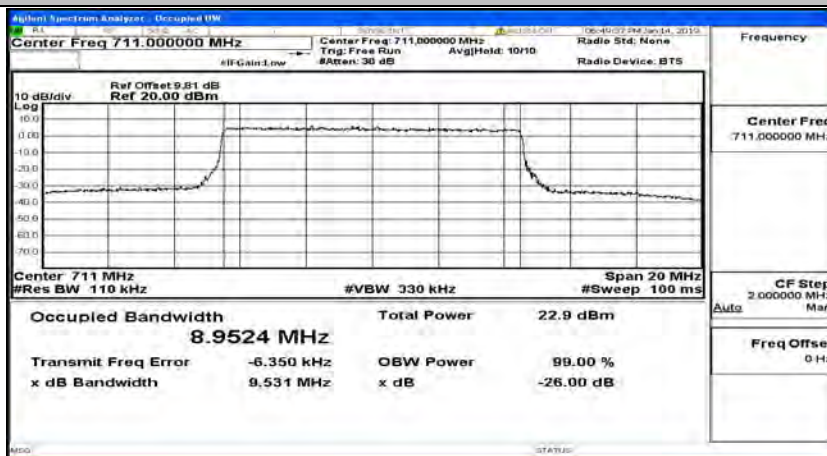
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM

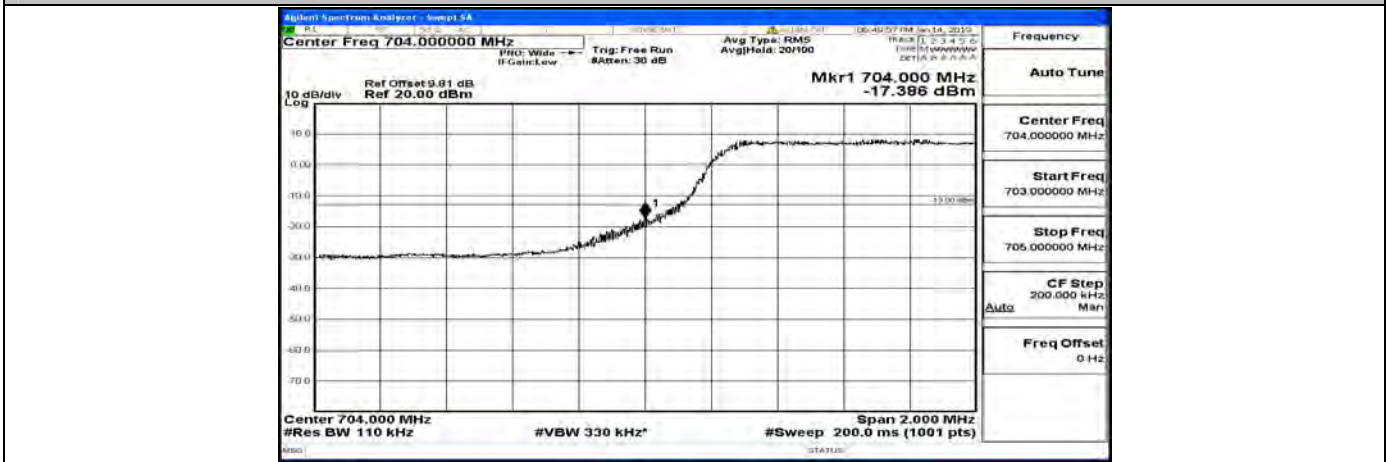


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

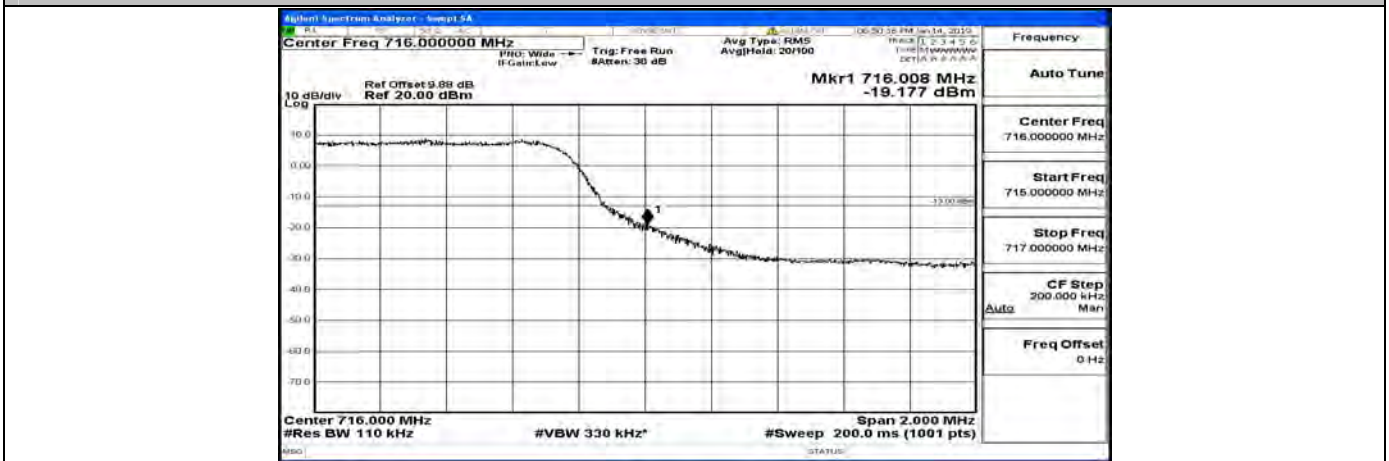


### E.4 Band Edge

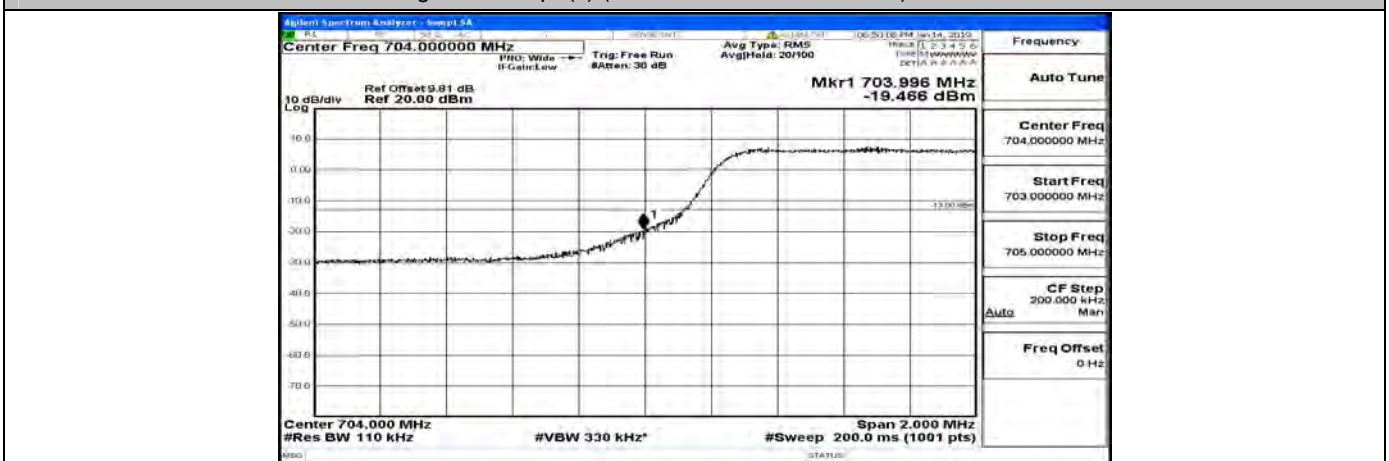
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



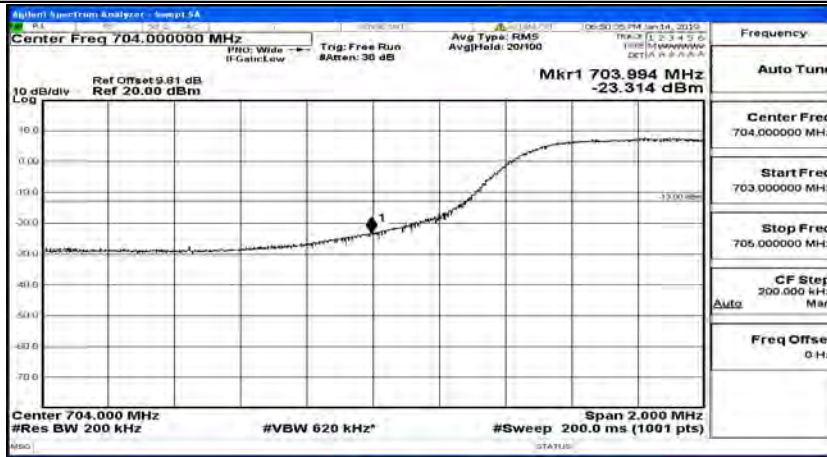
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



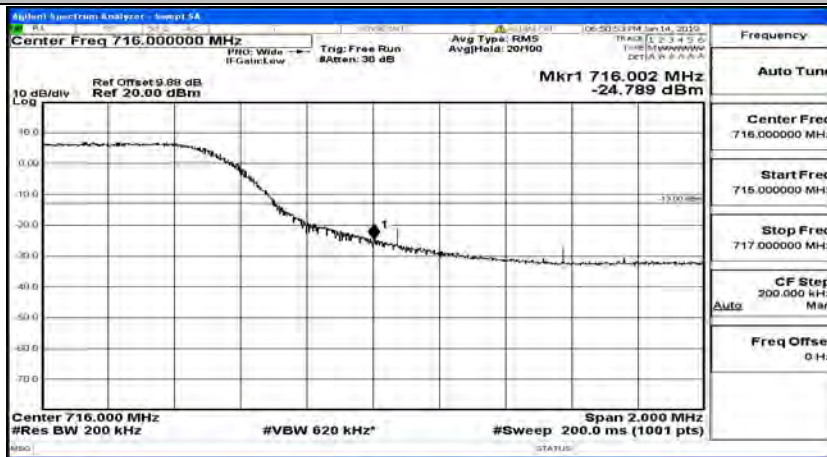
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



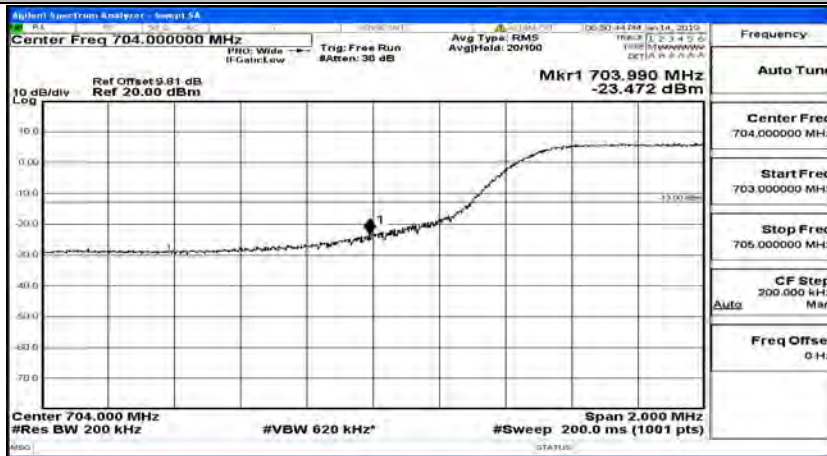
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



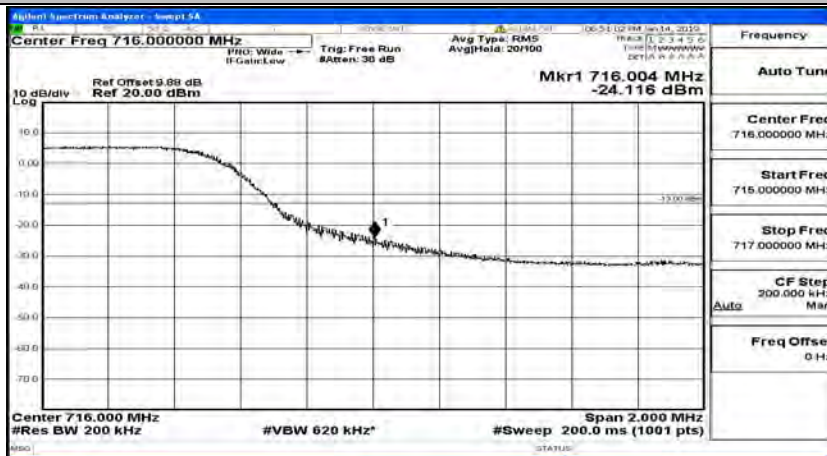
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz) LCH\_16QAM

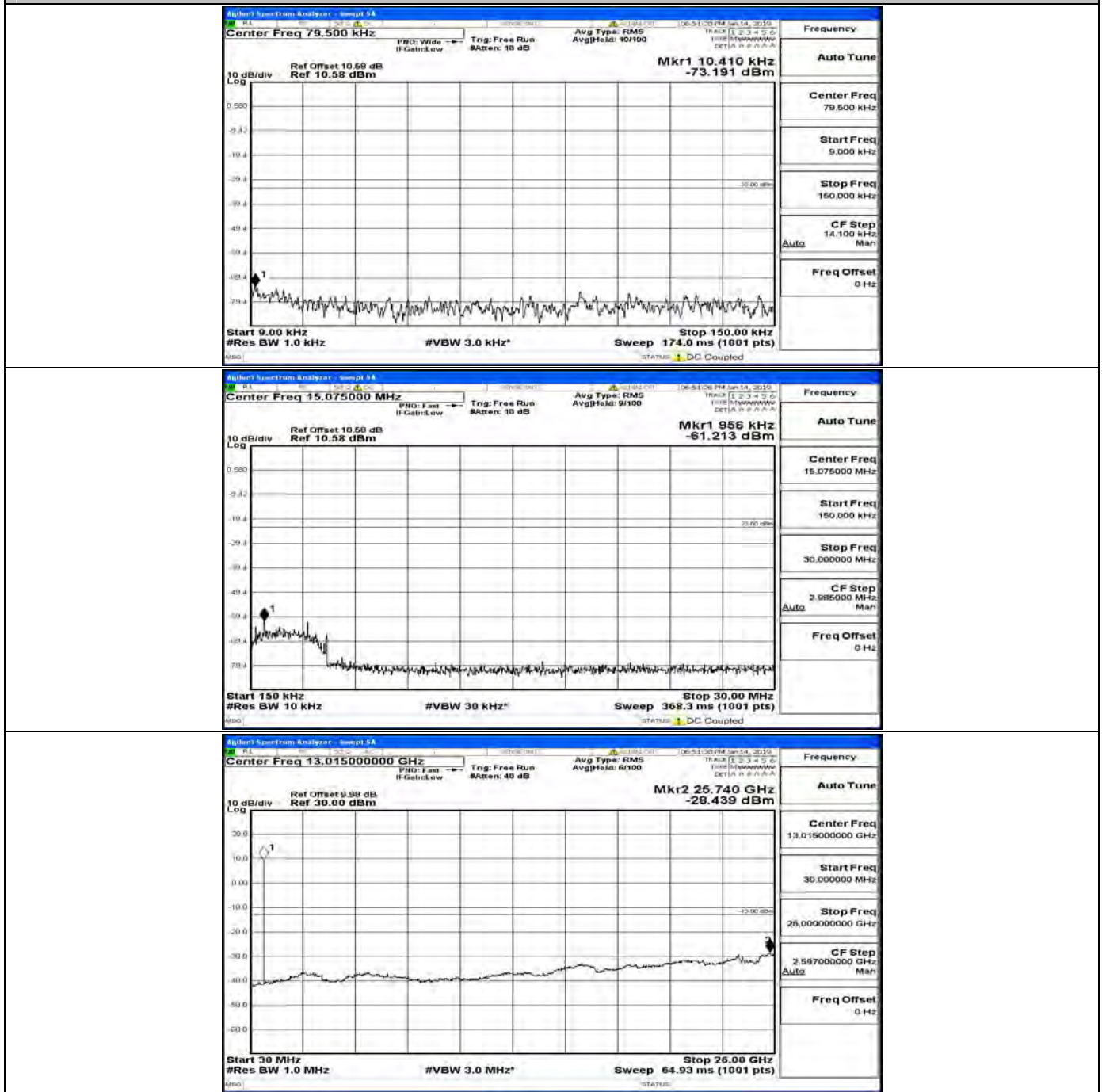


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz) HCH\_16QAM



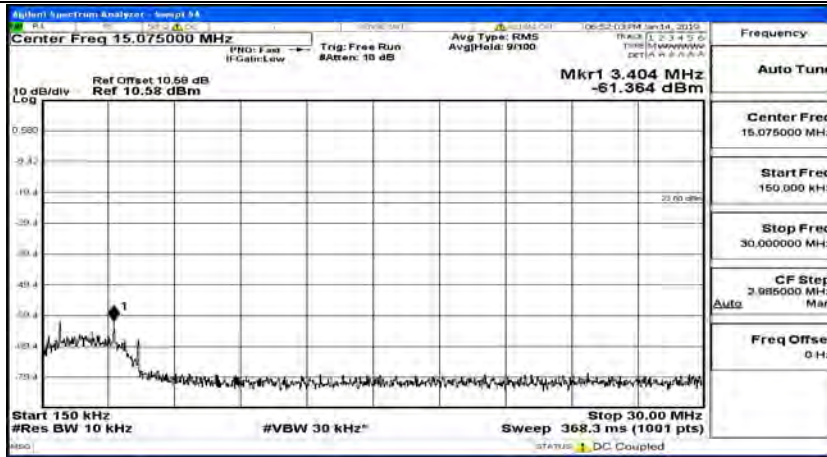
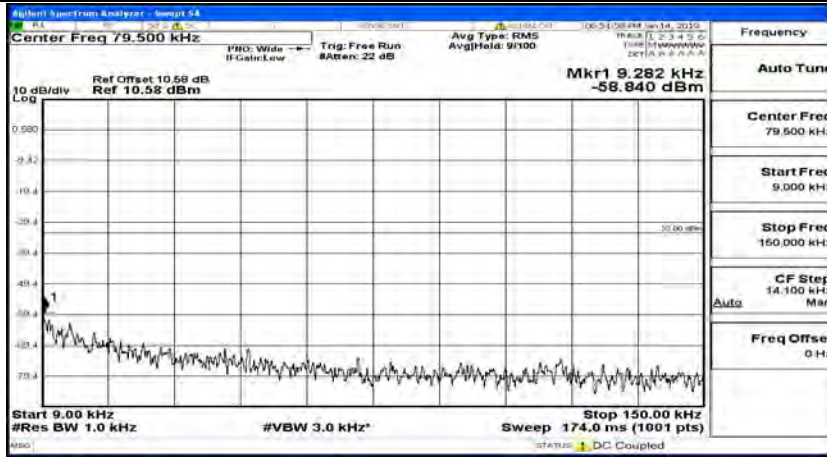
### E.5 Conducted Spurious Emission

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK

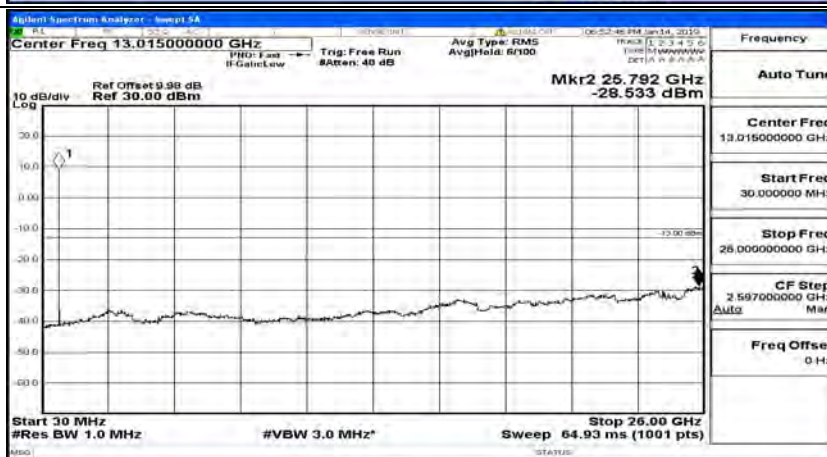
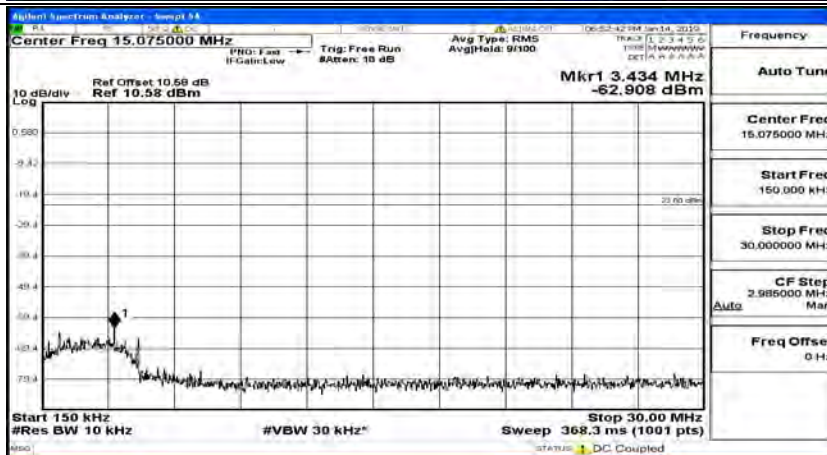
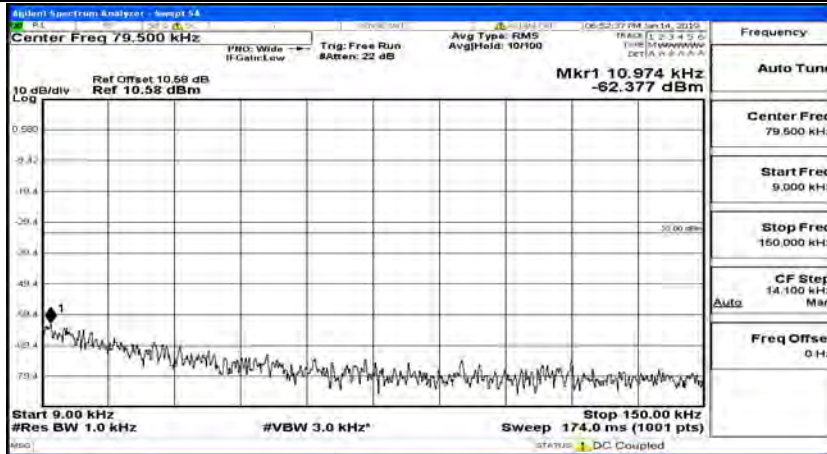




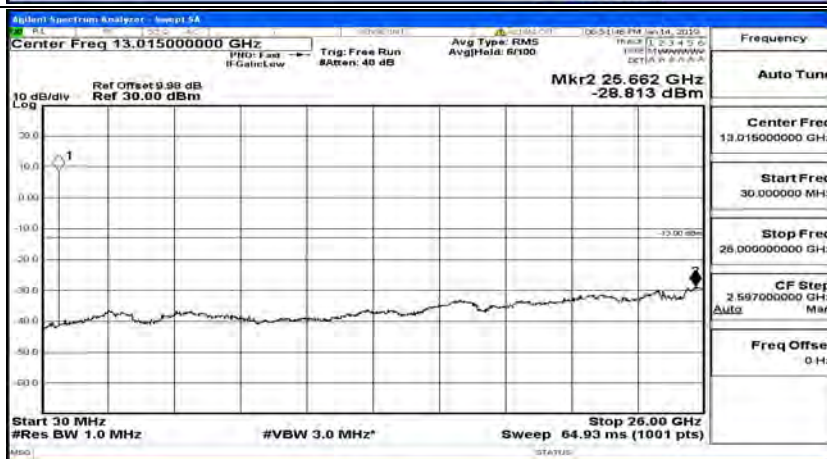
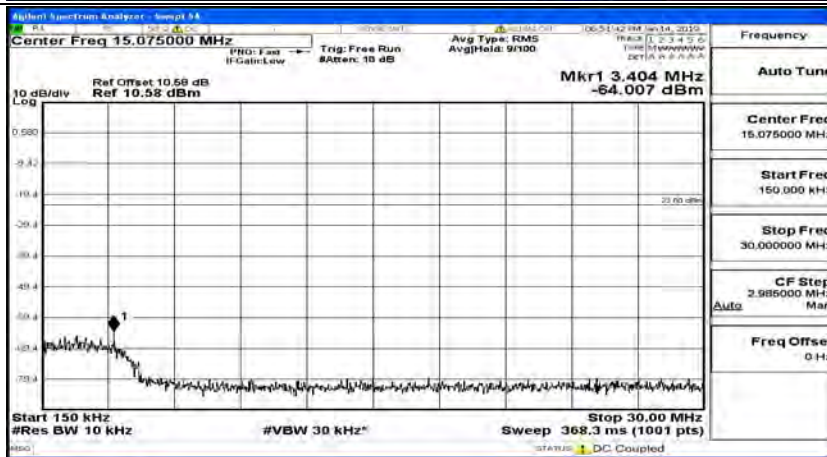
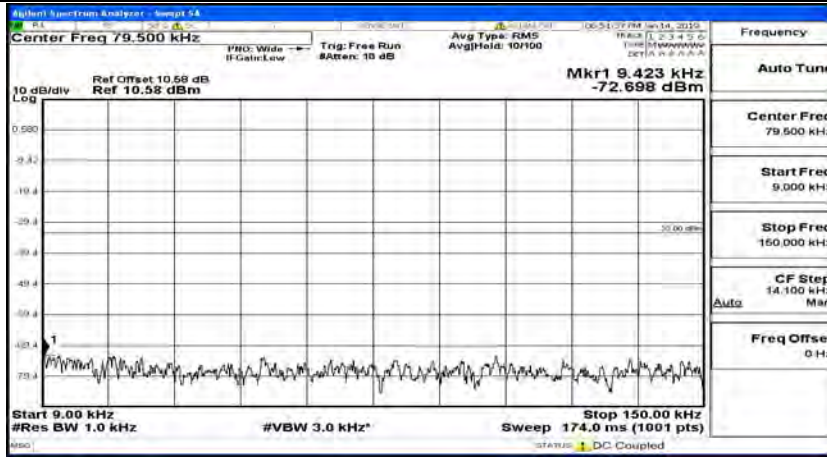
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



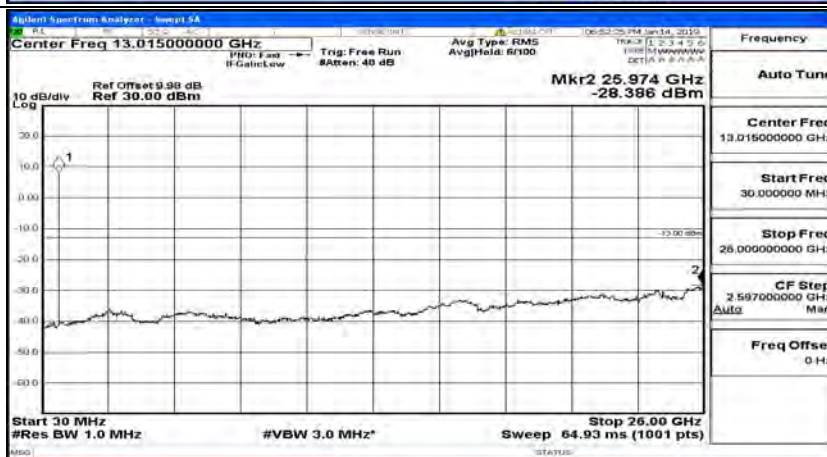
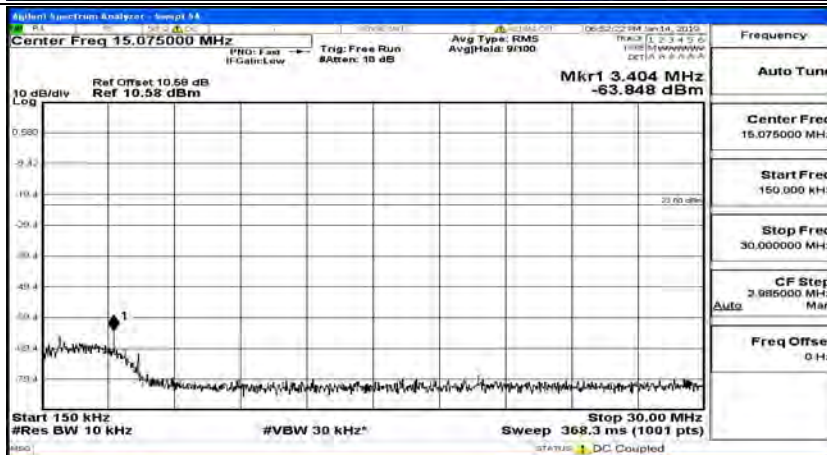
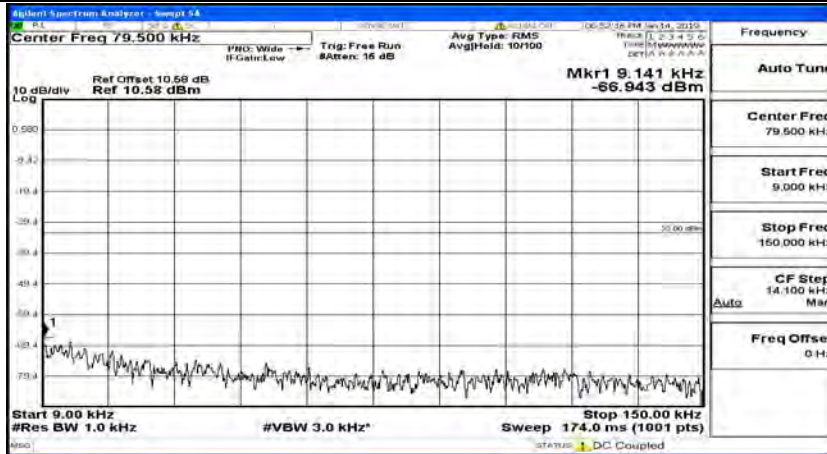
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



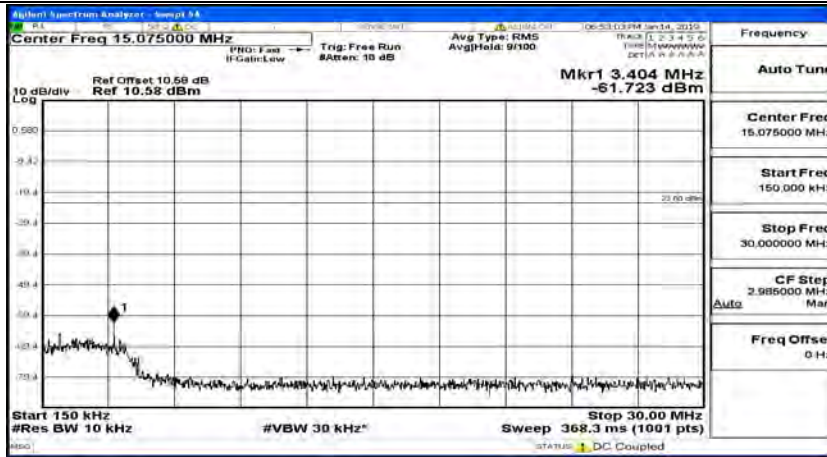
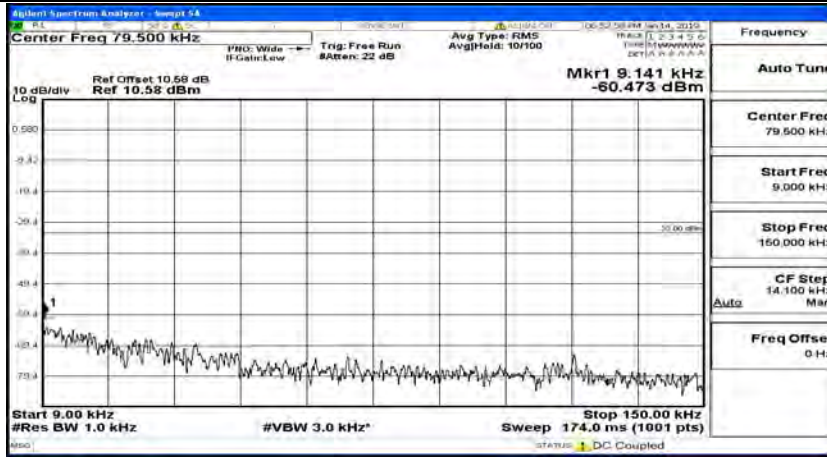
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



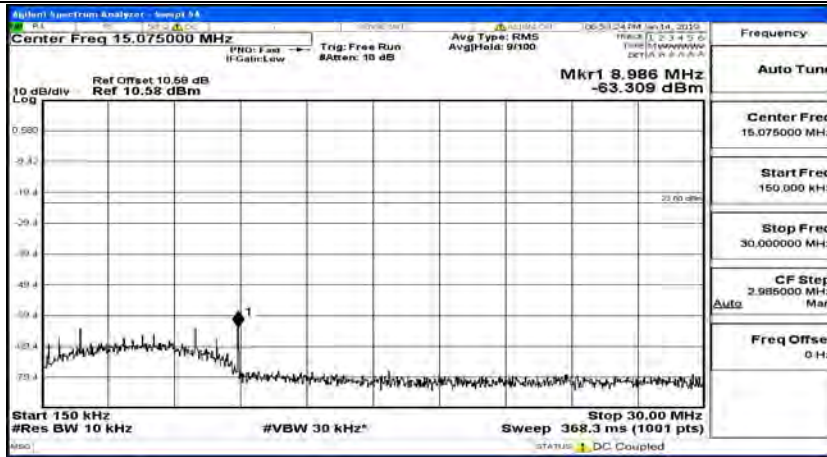
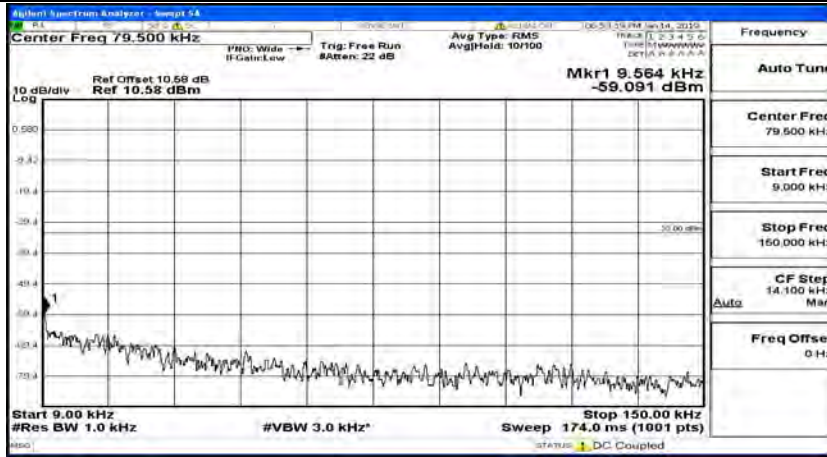
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



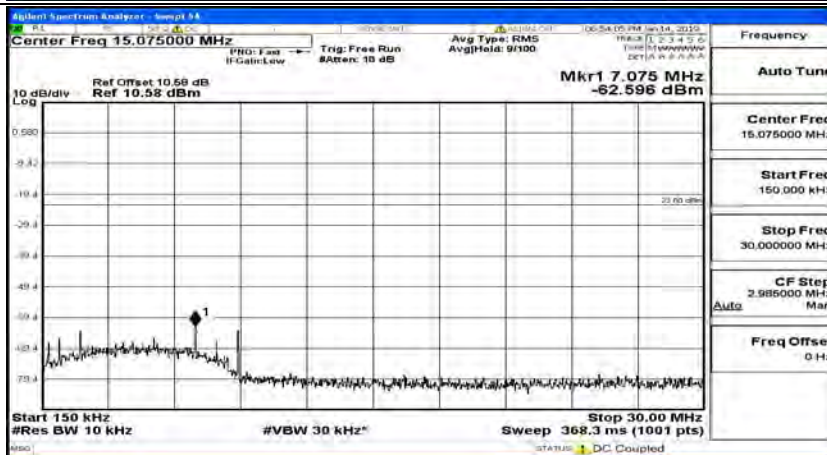
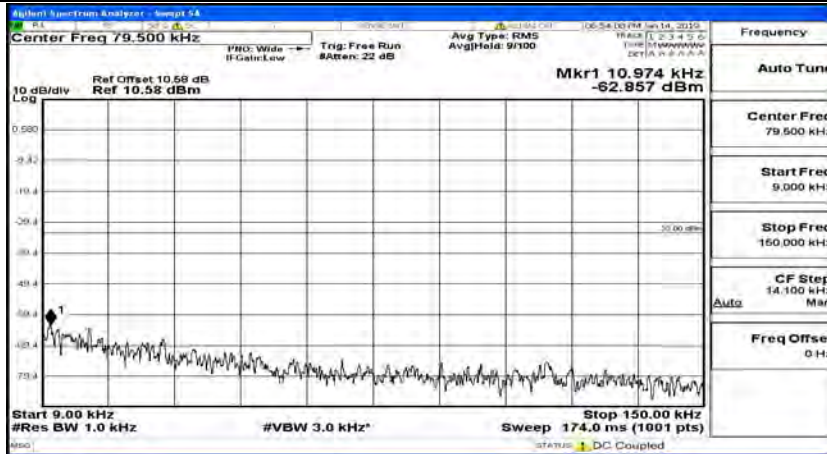
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



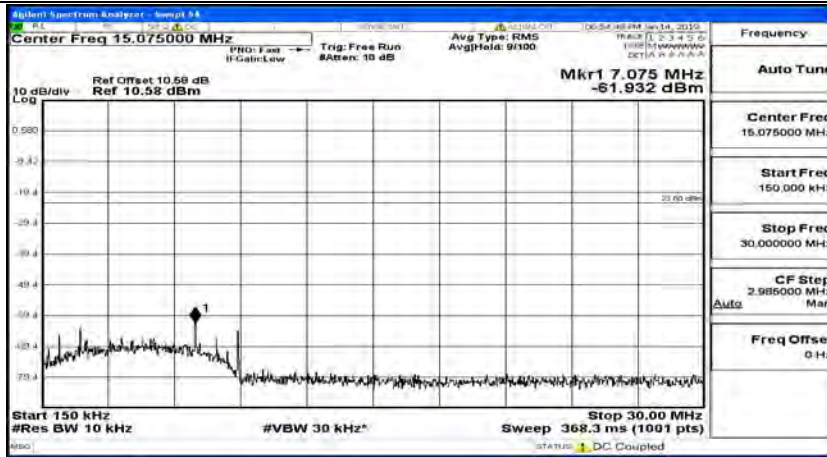
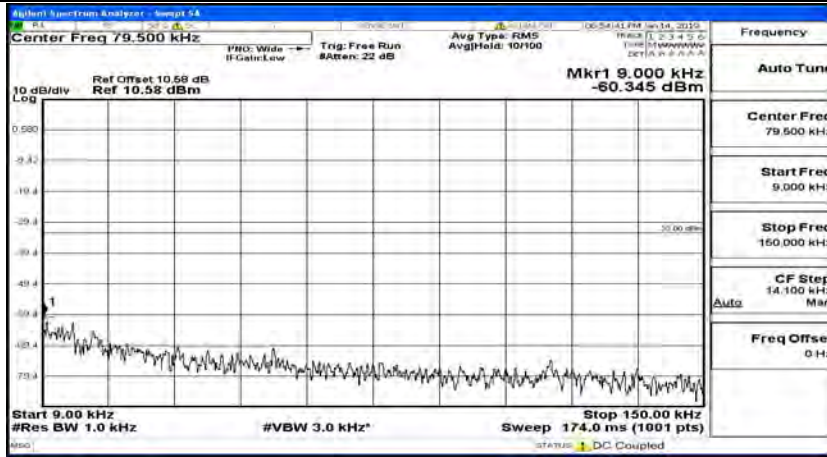
CSE Test Graph(s) (Channel Bandwidth: 10 MHz) LCH\_QPSK



CSE Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK

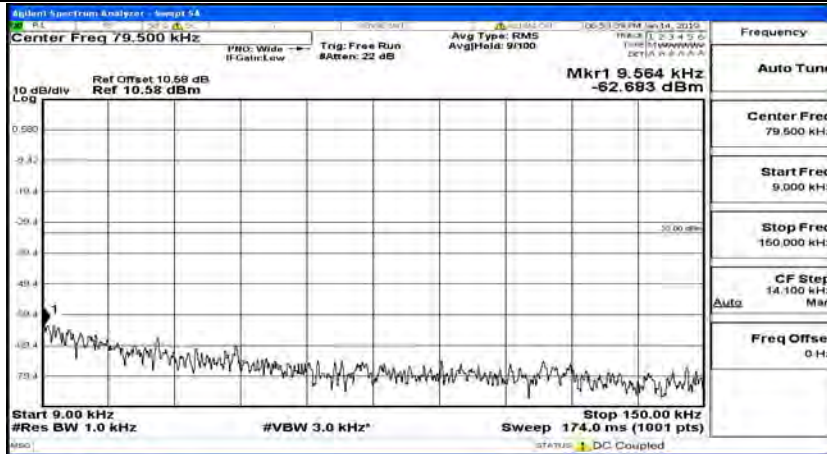


CSE Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK

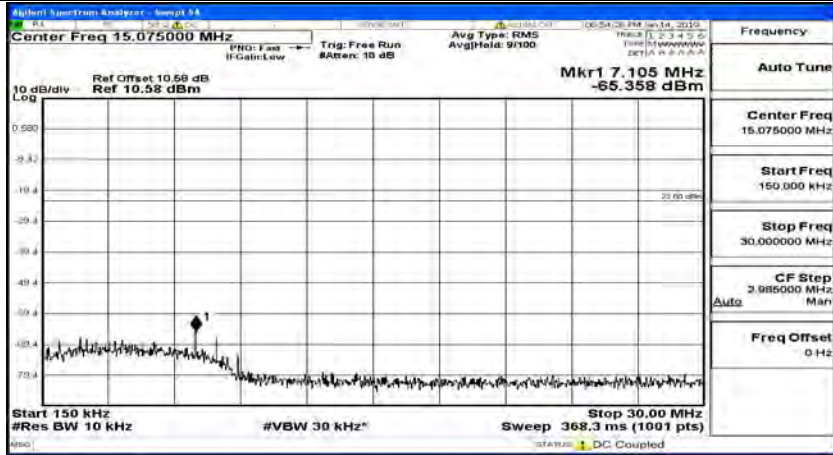
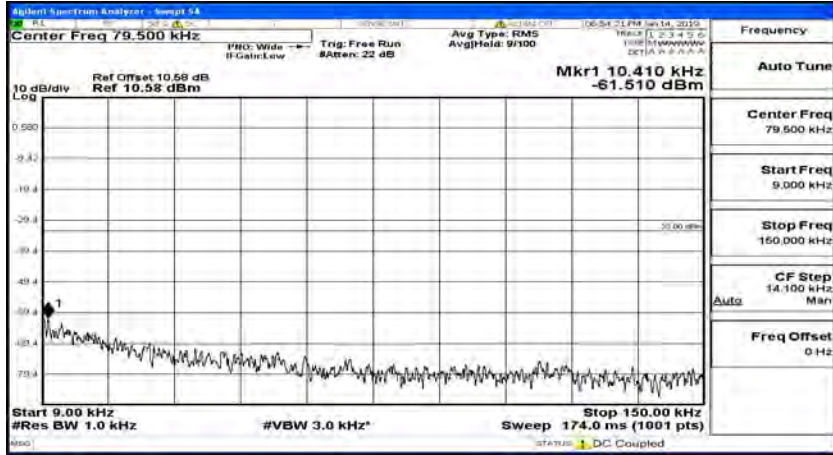




CSE Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



CSE Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM



CSE Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

