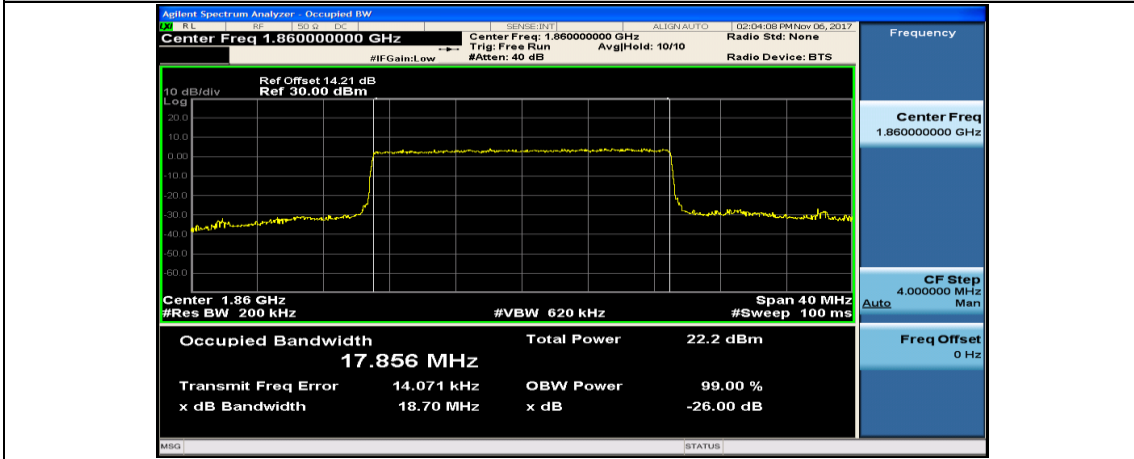
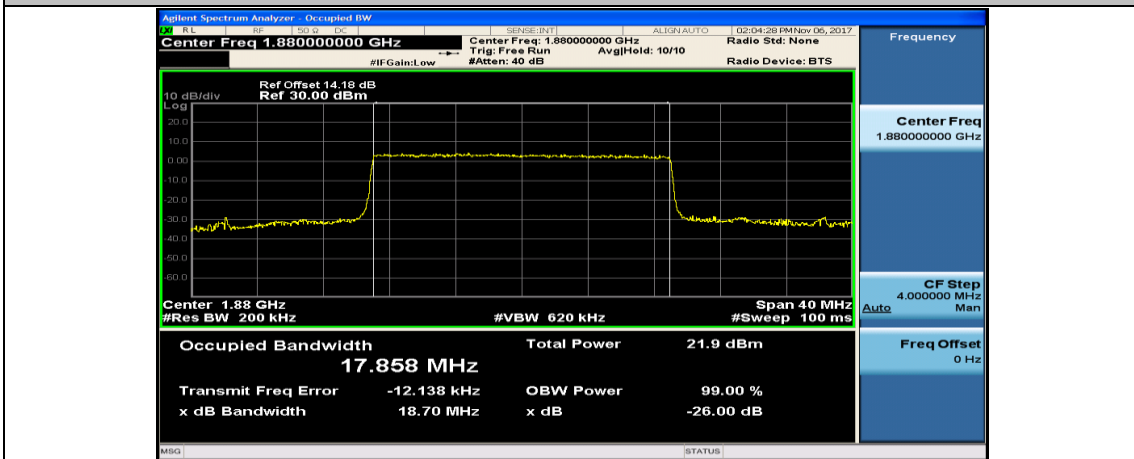




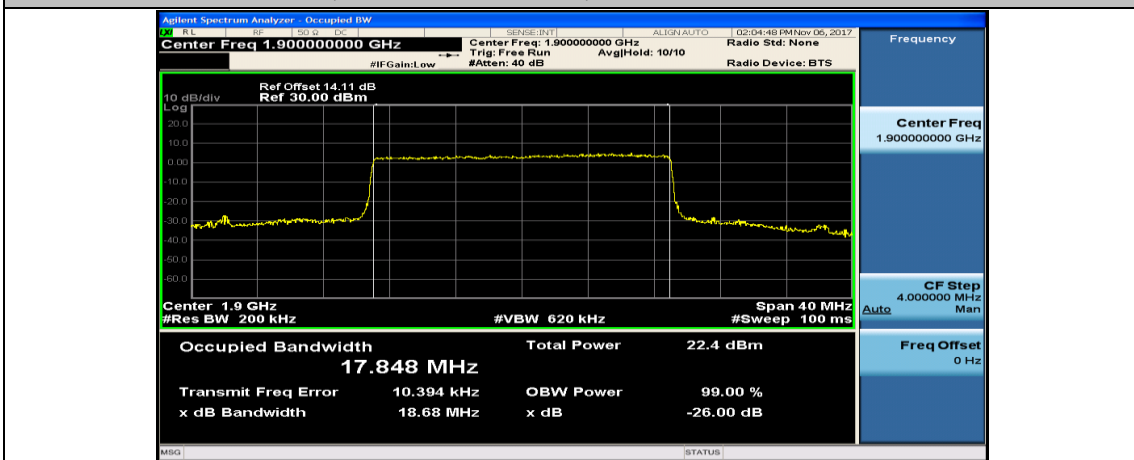
(Channel Bandwidth: 20 MHz)_LCH_16QAM_100RB#0



(Channel Bandwidth: 20 MHz)_MCH_16QAM_100RB#0



(Channel Bandwidth: 20 MHz)_HCH_16QAM_100RB#0

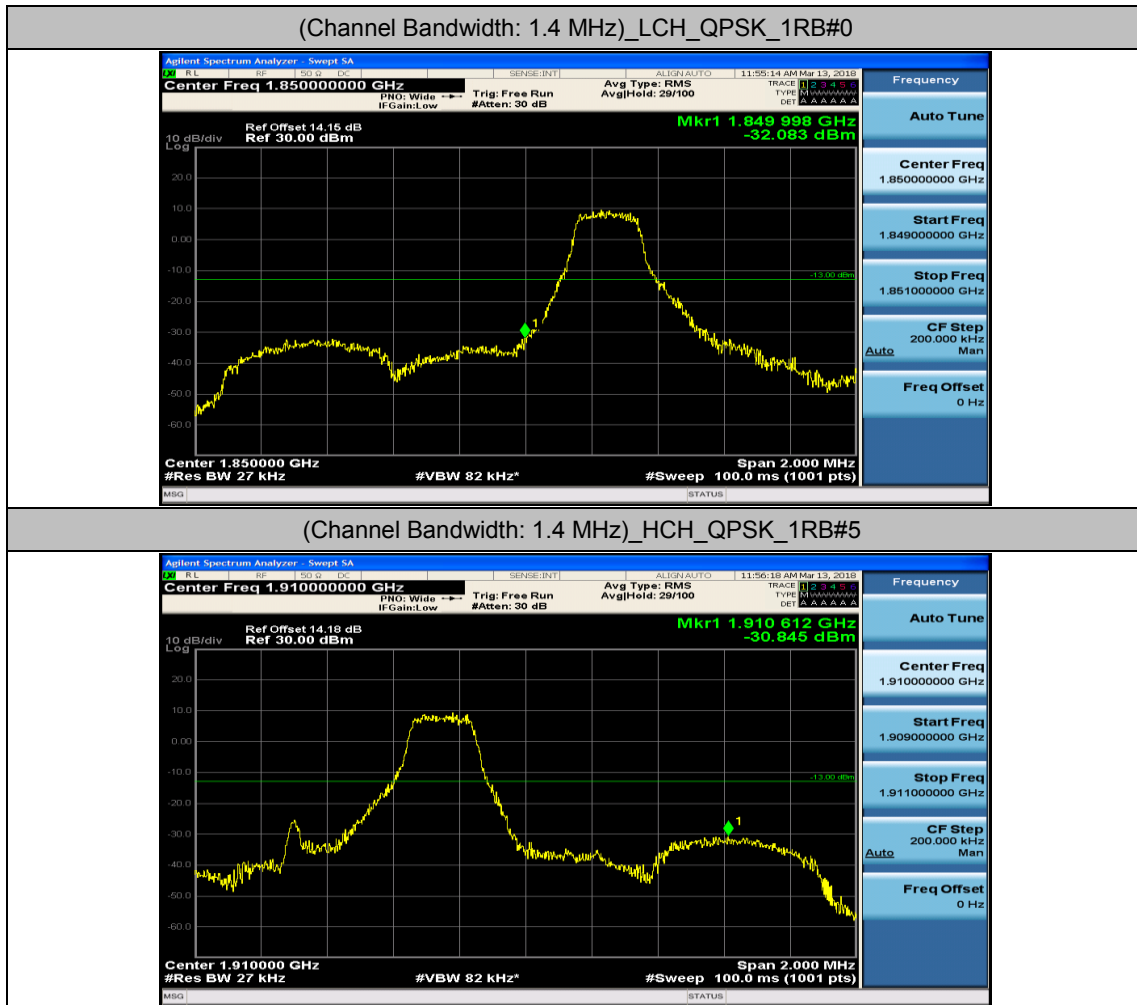




Appendix D: Band Edge

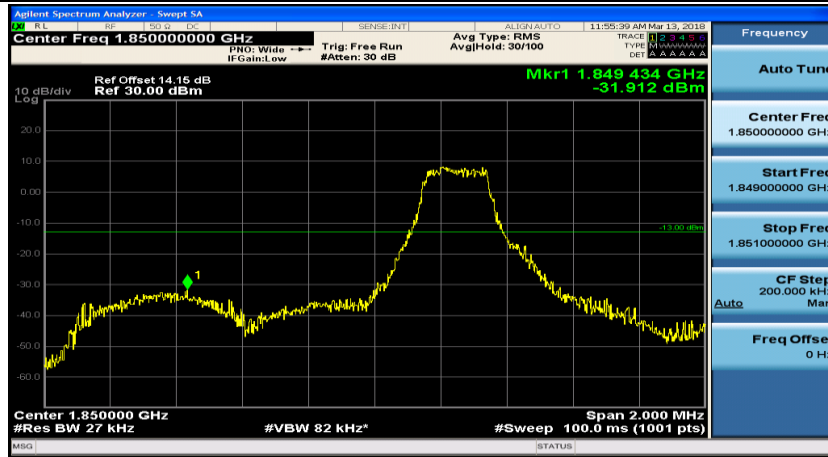
Test Graphs

Channel Bandwidth: 1.4 MHz

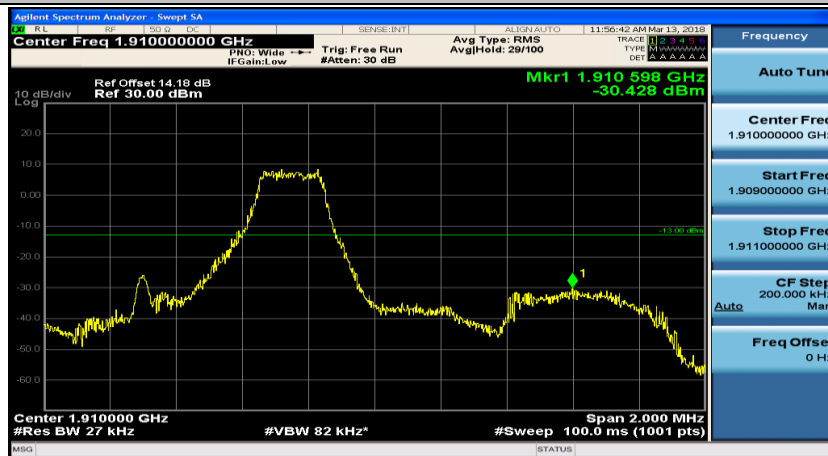




(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0

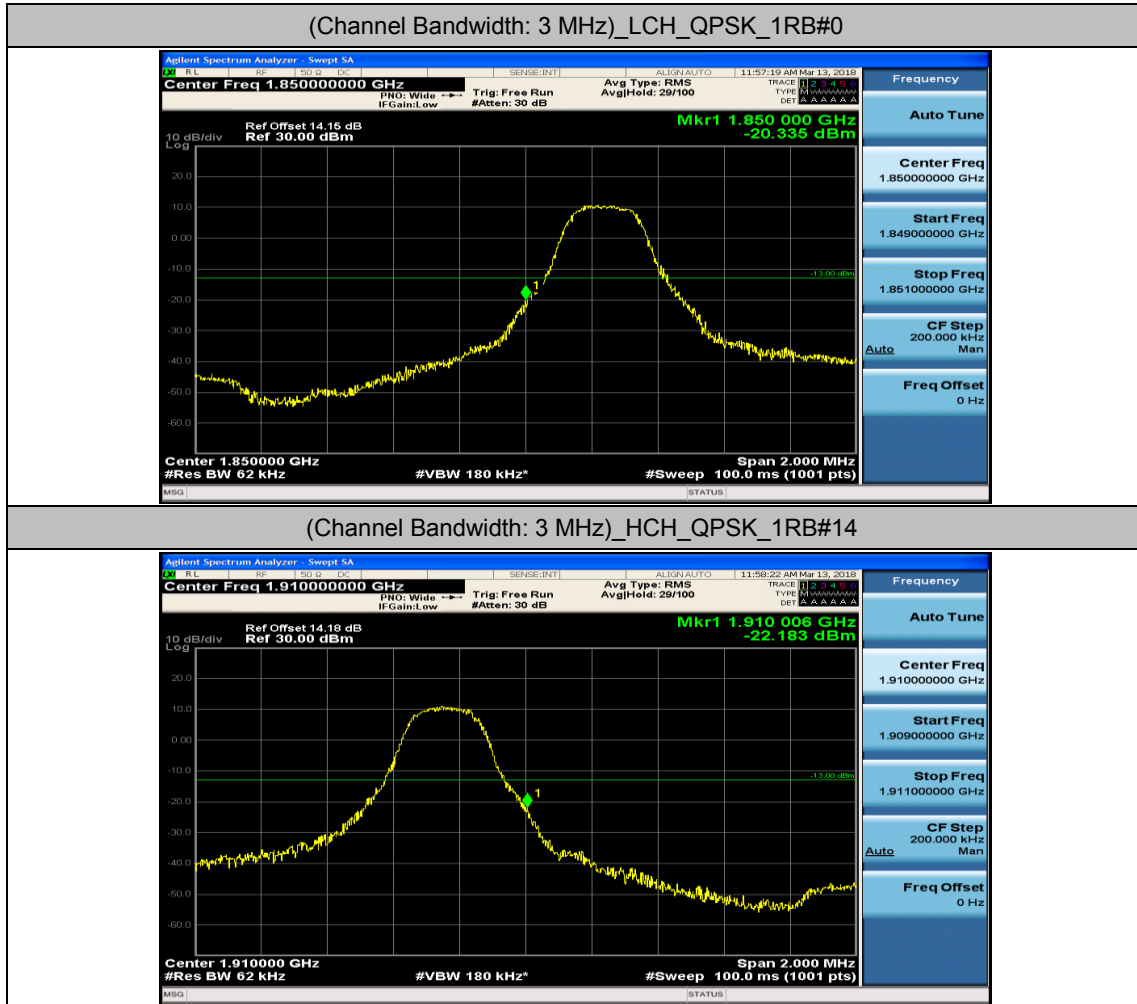


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



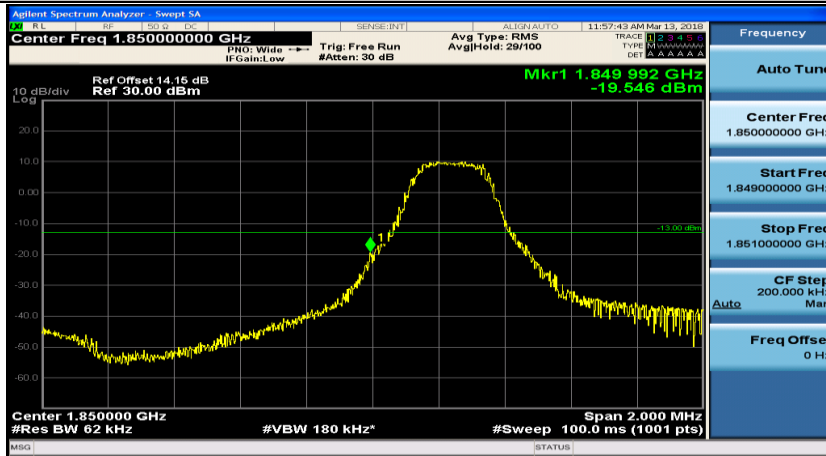


Channel Bandwidth: 3 MHz

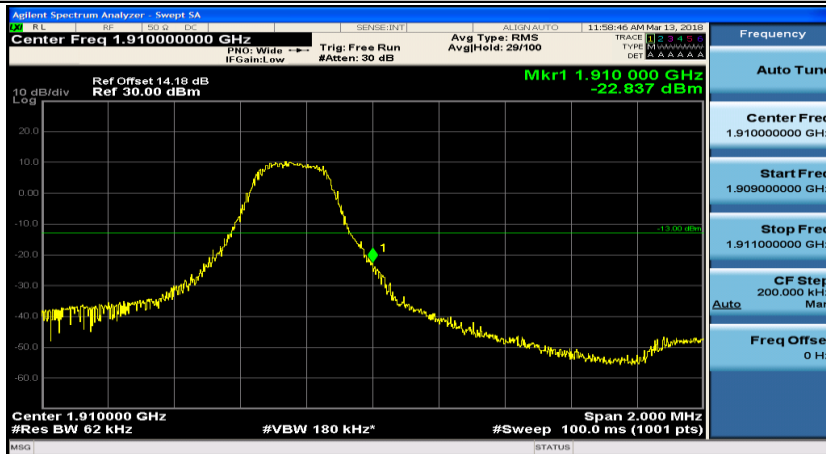




(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0

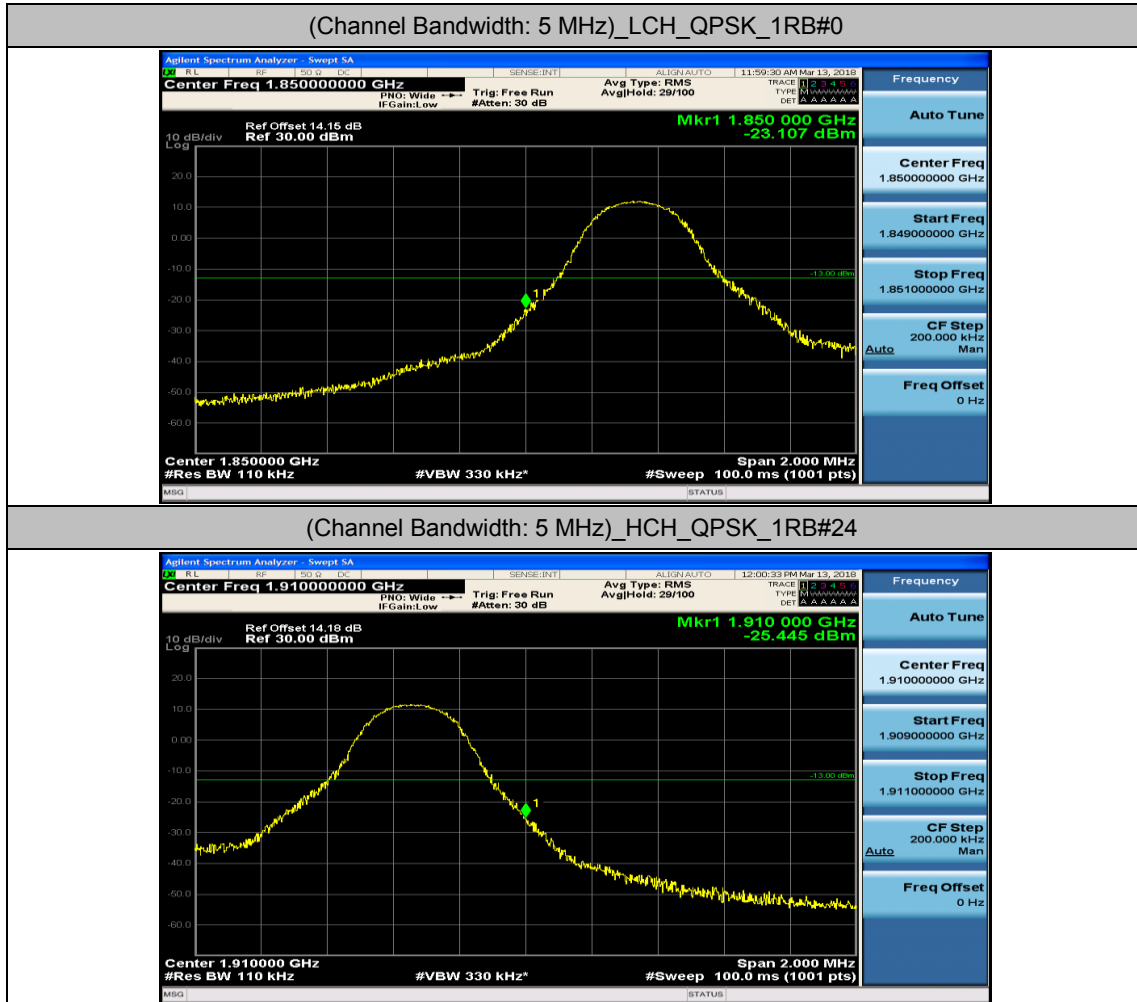


(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



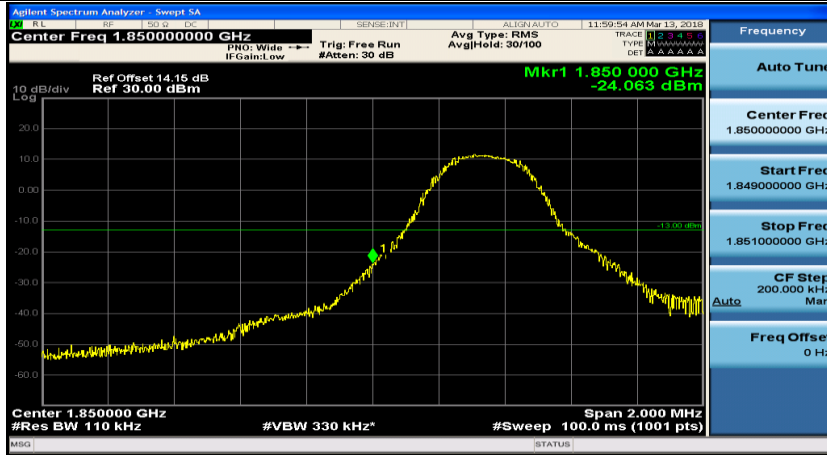


Channel Bandwidth: 5 MHz

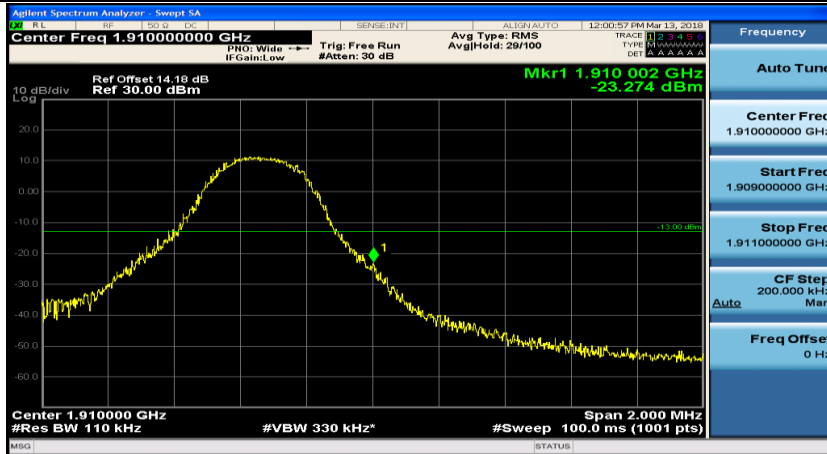




(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

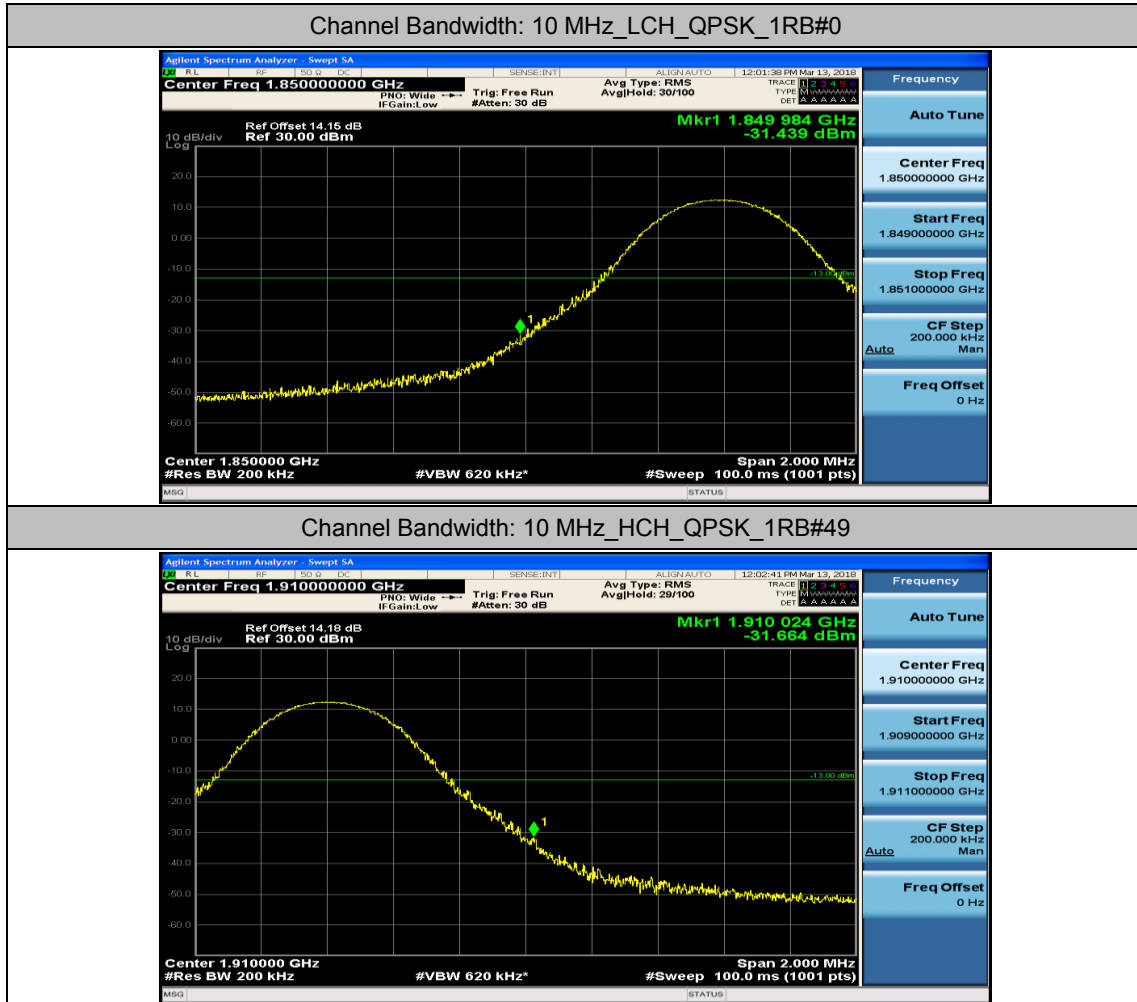


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



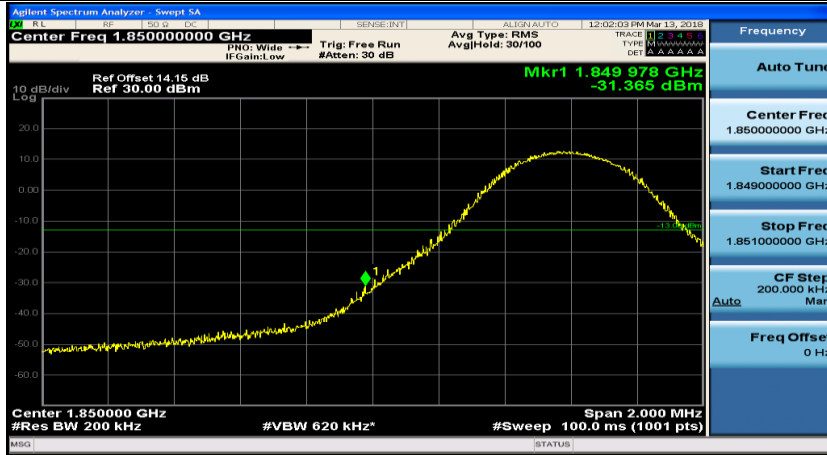


Channel Bandwidth: 10 MHz

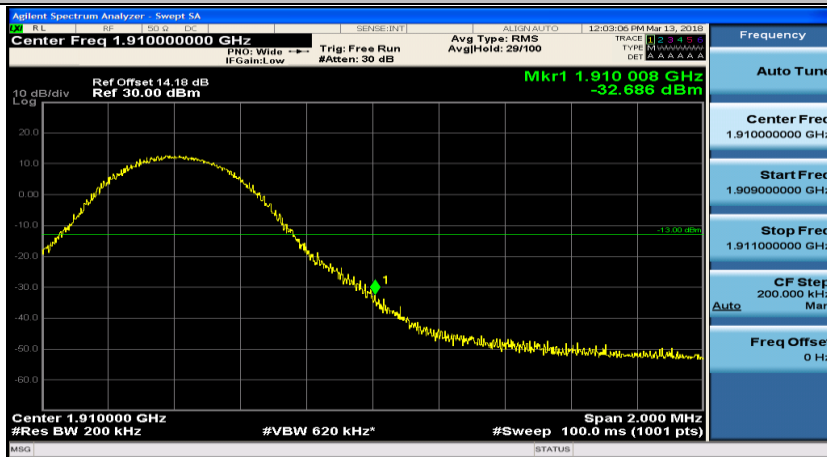




Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

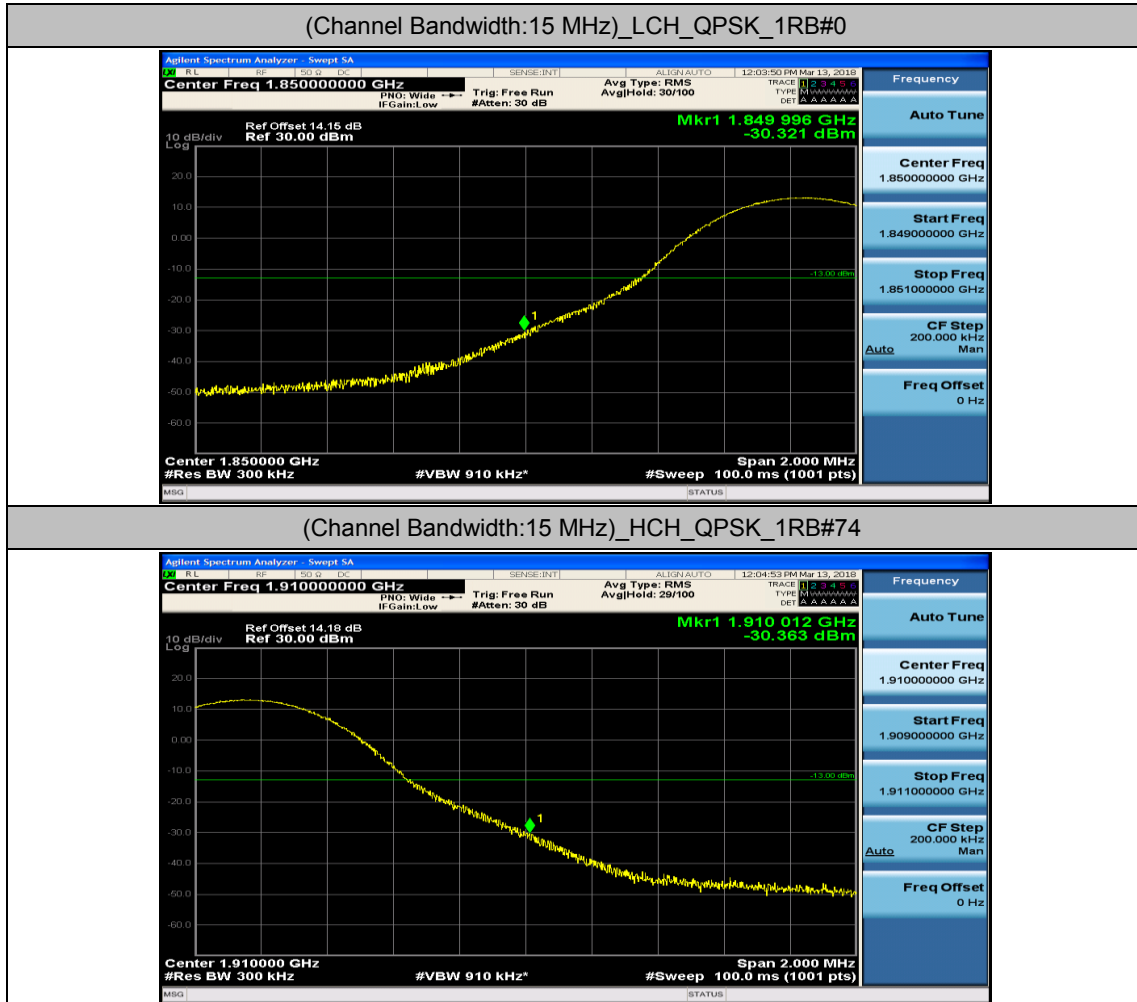


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49



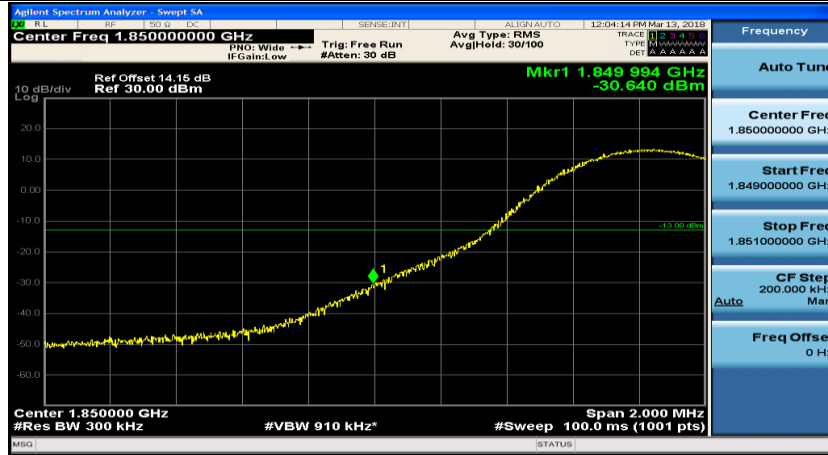


Channel Bandwidth: 15 MHz

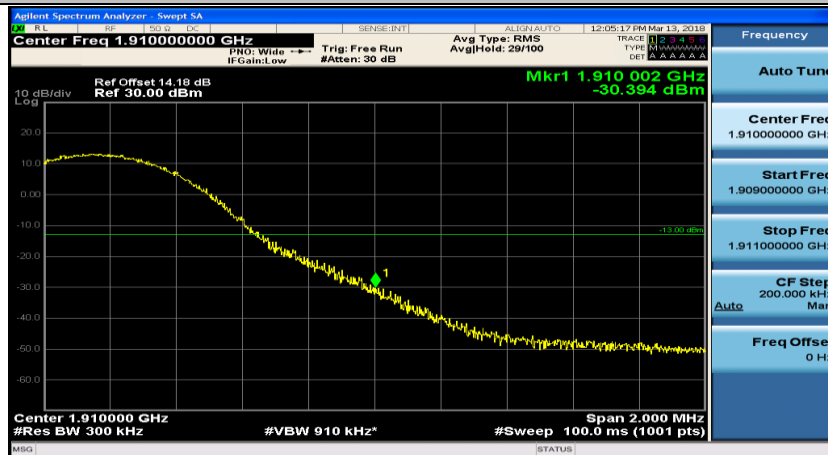




(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

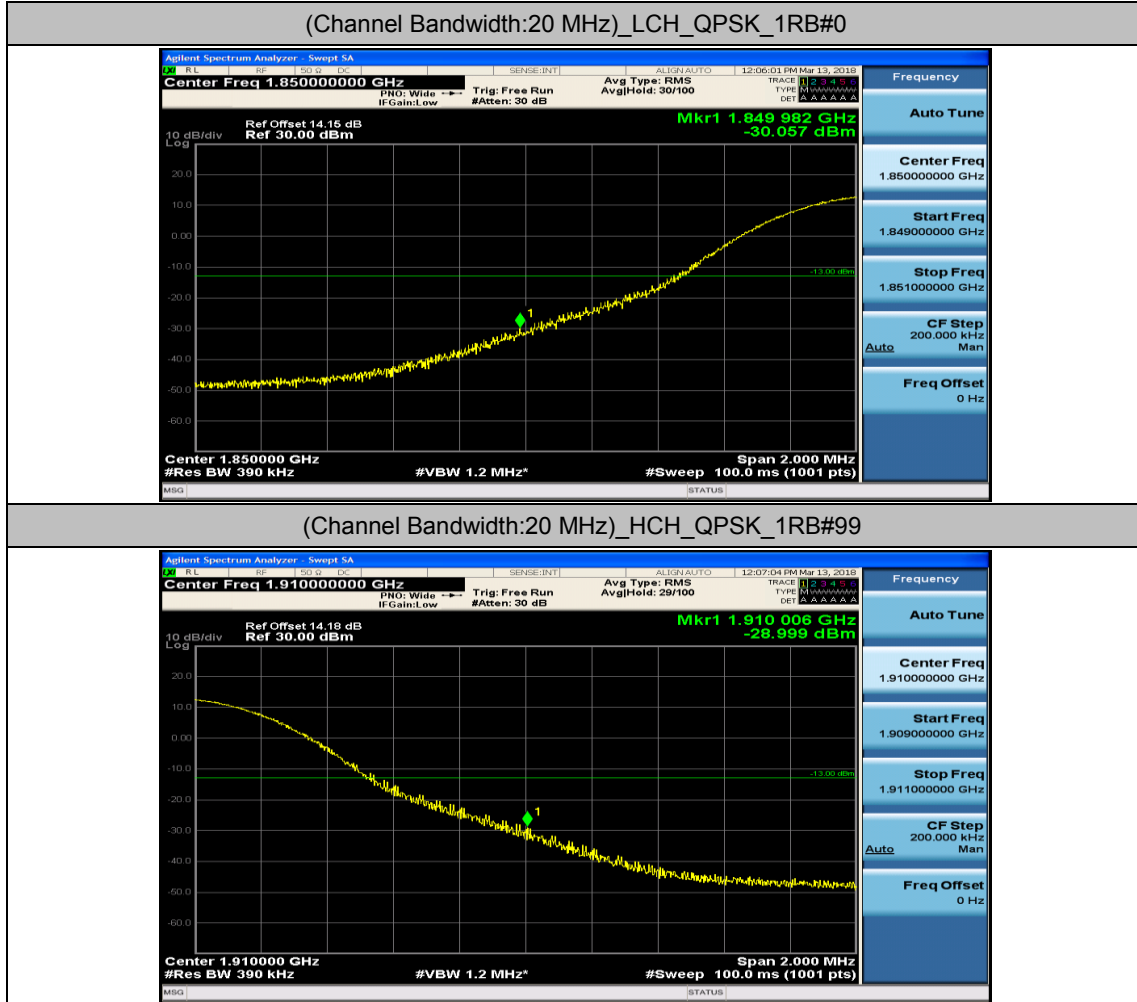


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74



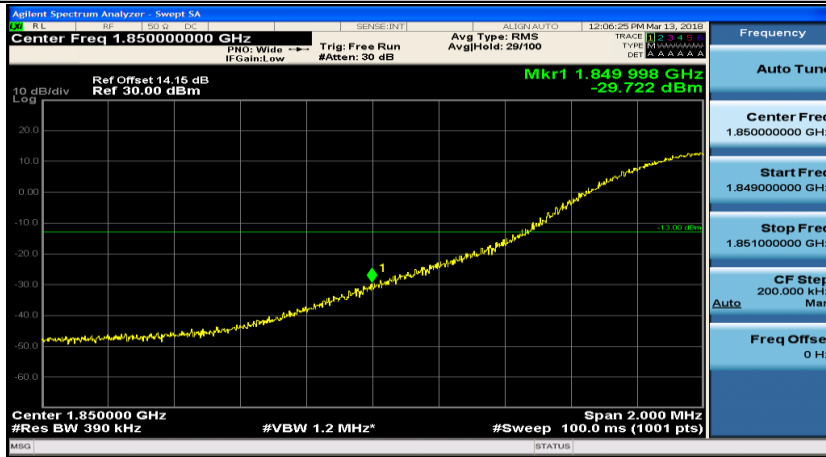


Channel Bandwidth: 20 MHz

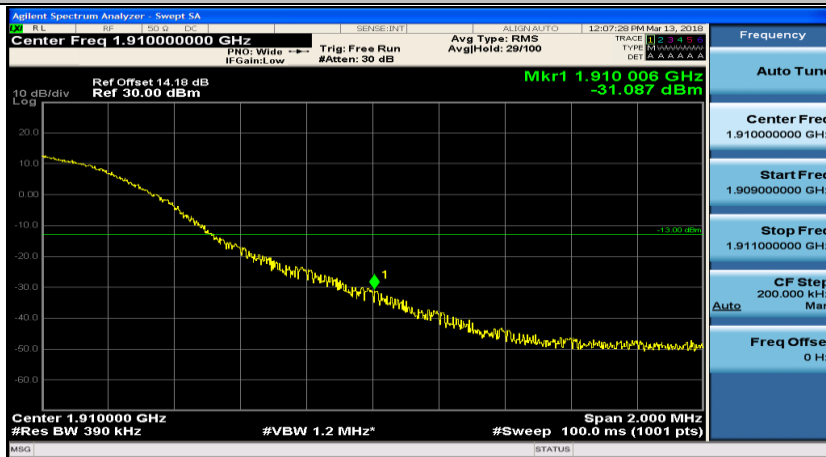




(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99

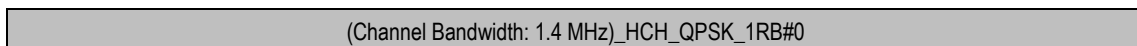
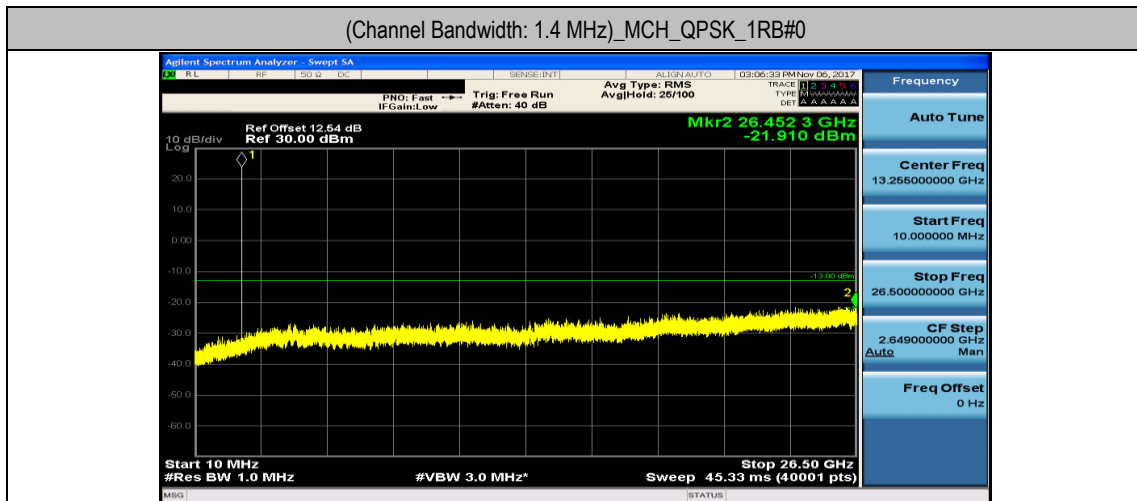
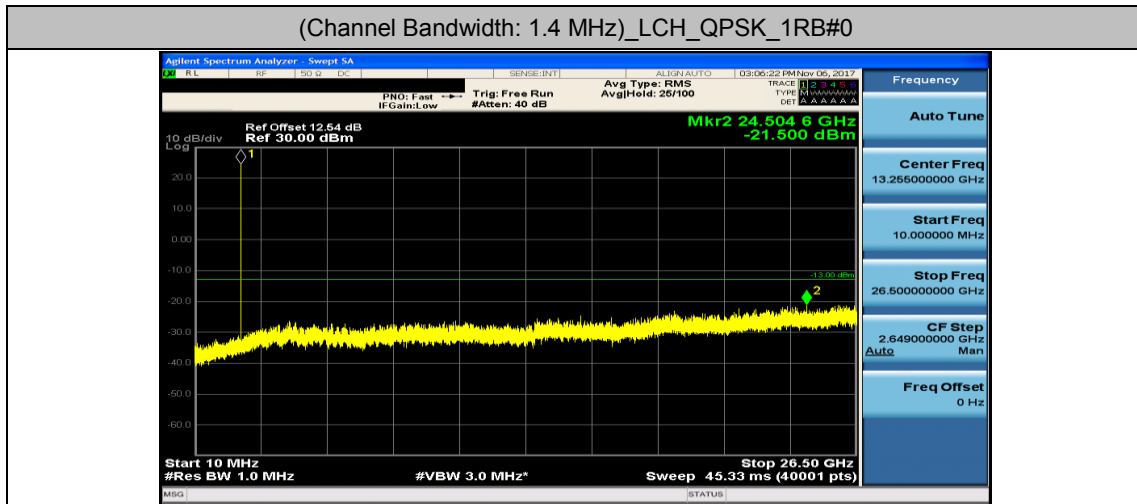


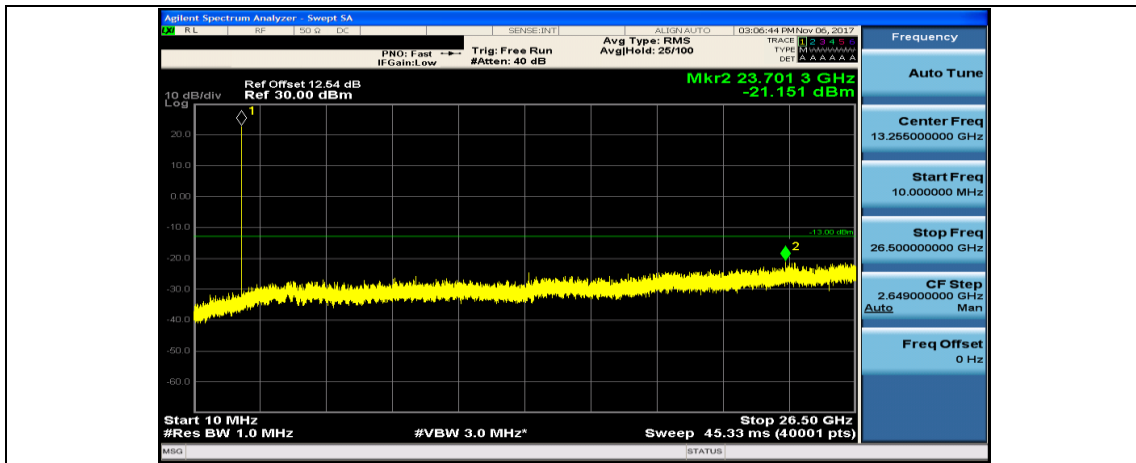


Appendix E: Conducted Spurious Emission

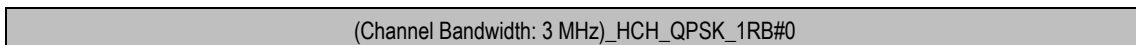
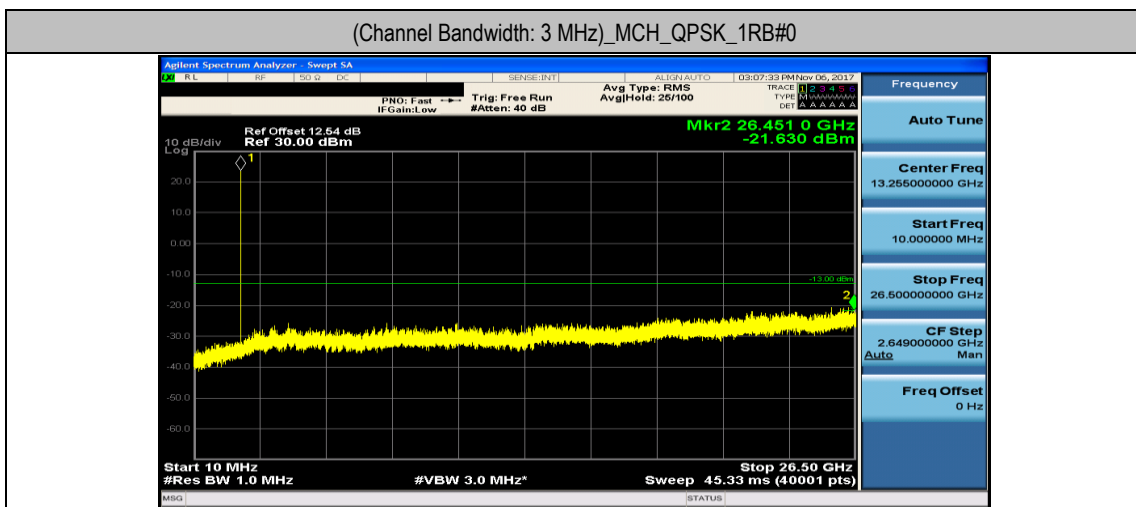
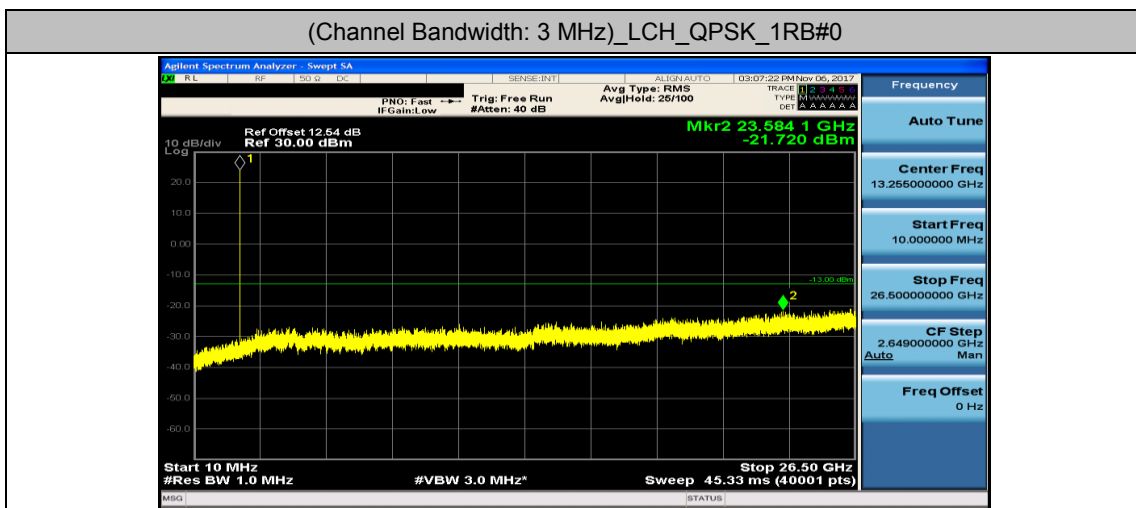
Test Graphs

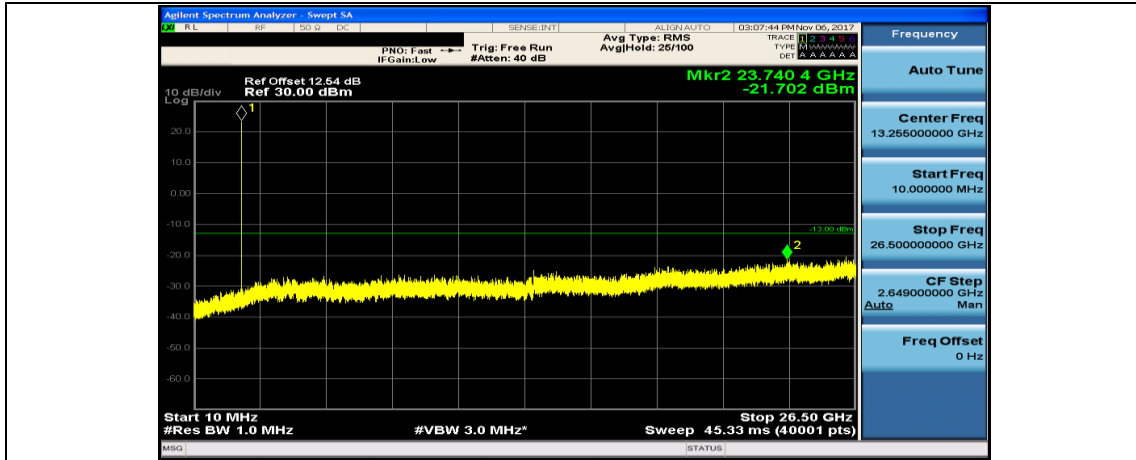
Channel Bandwidth: 1.4 MHz



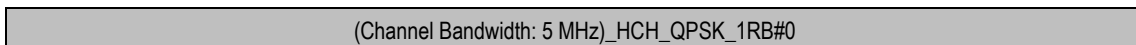
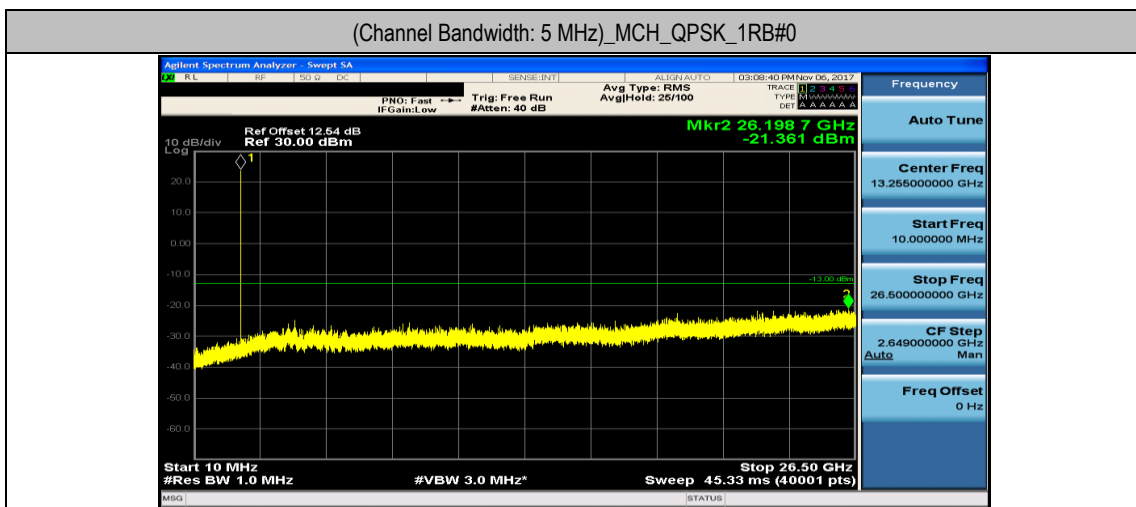
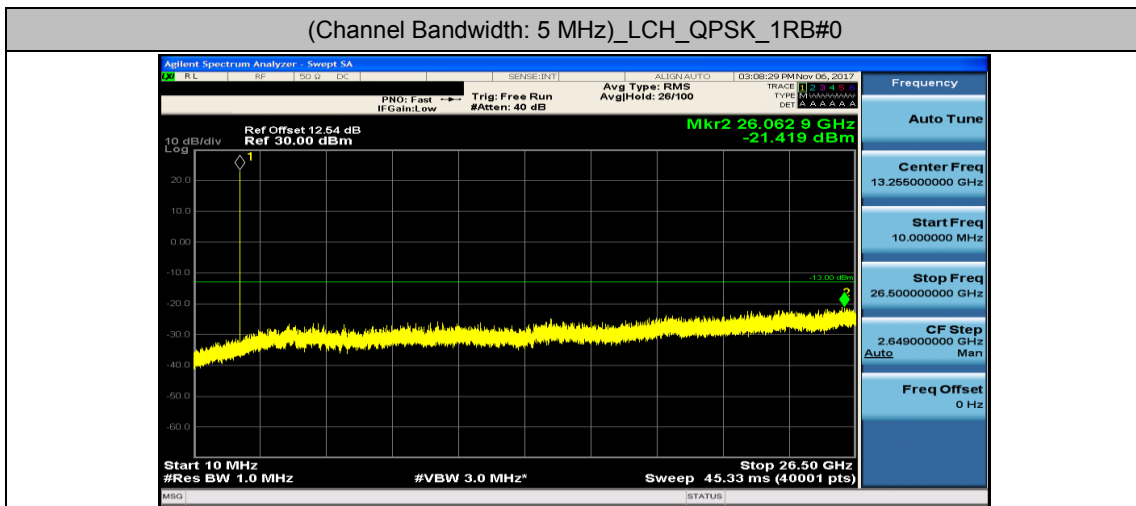


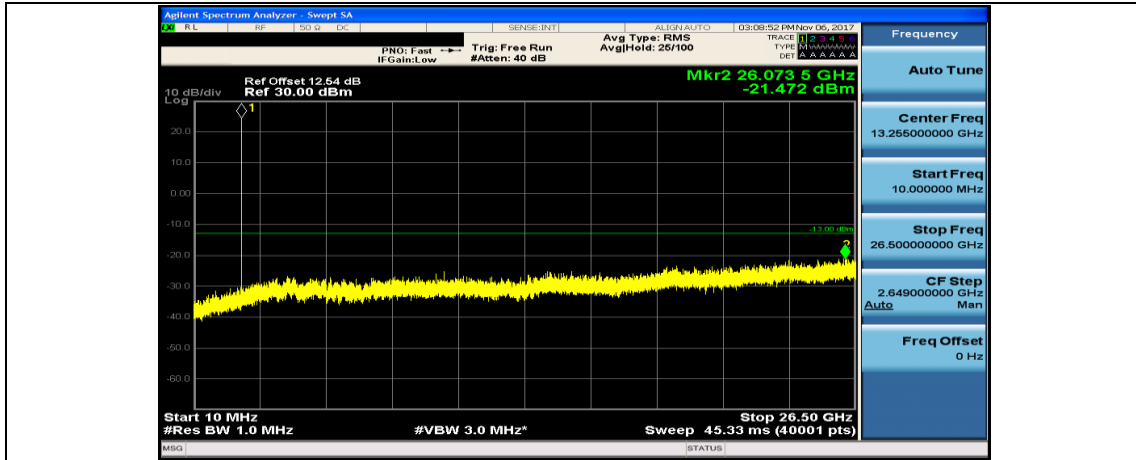
Channel Bandwidth: 3 MHz



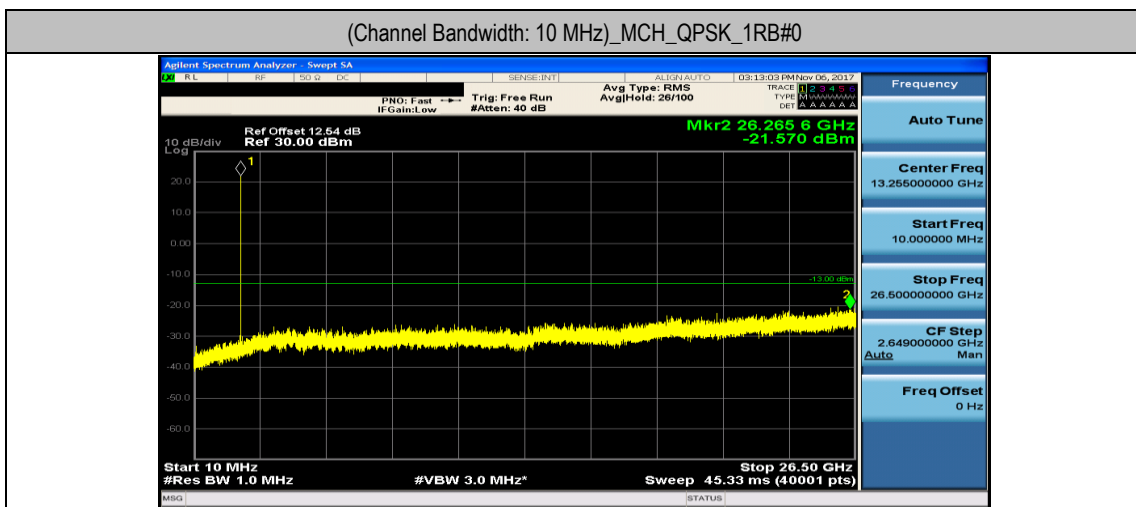
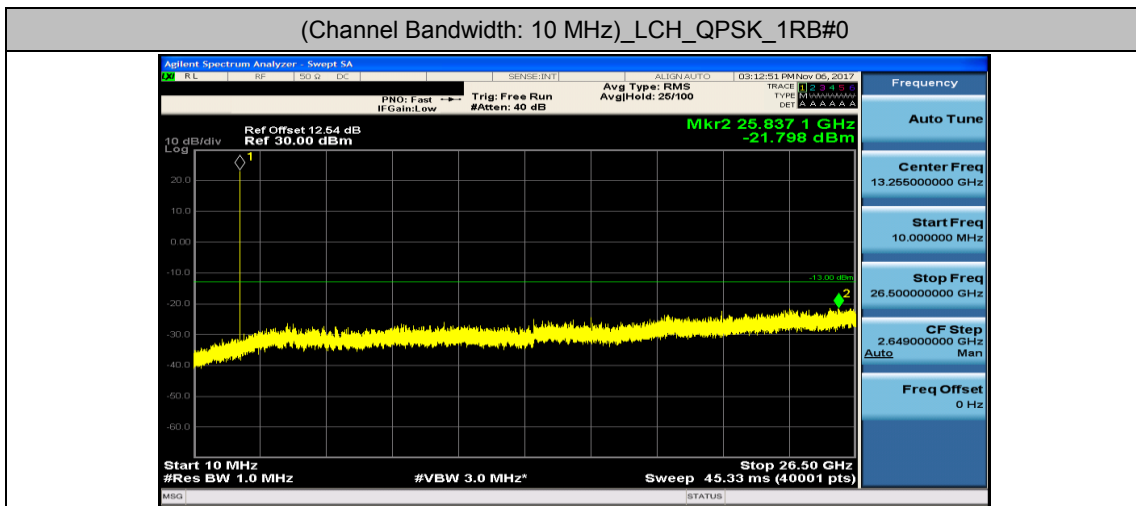


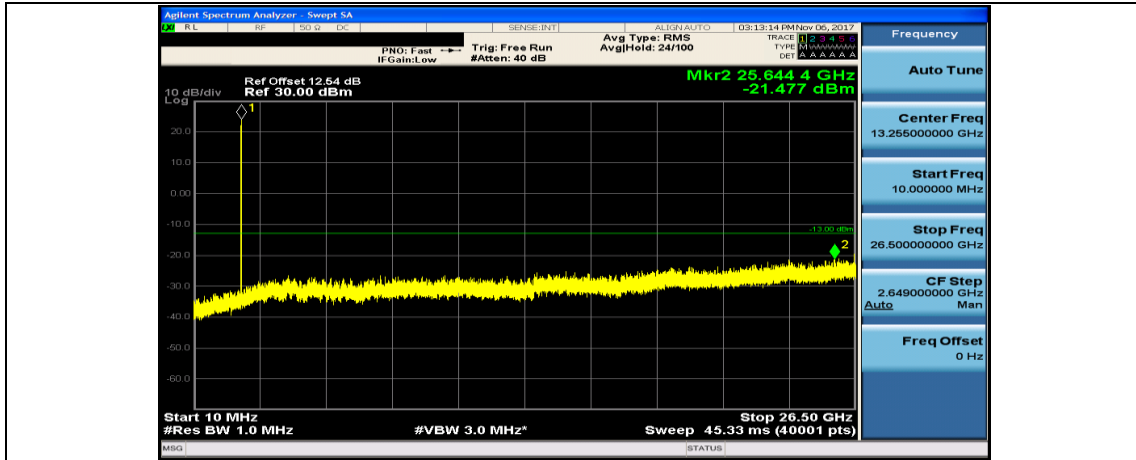
Channel Bandwidth: 5 MHz



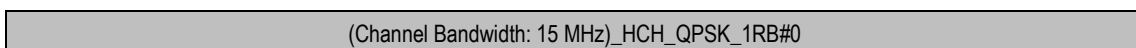
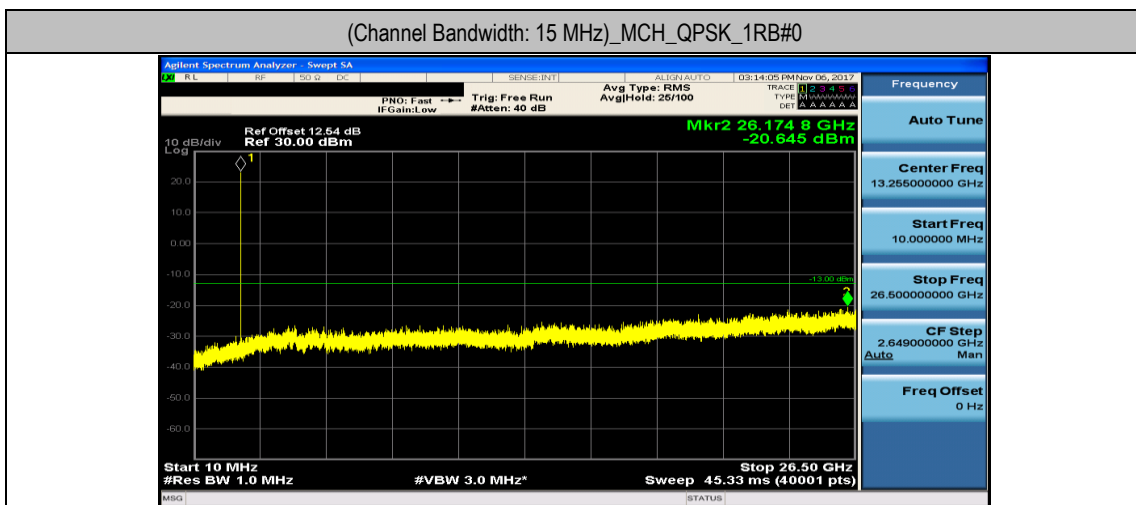
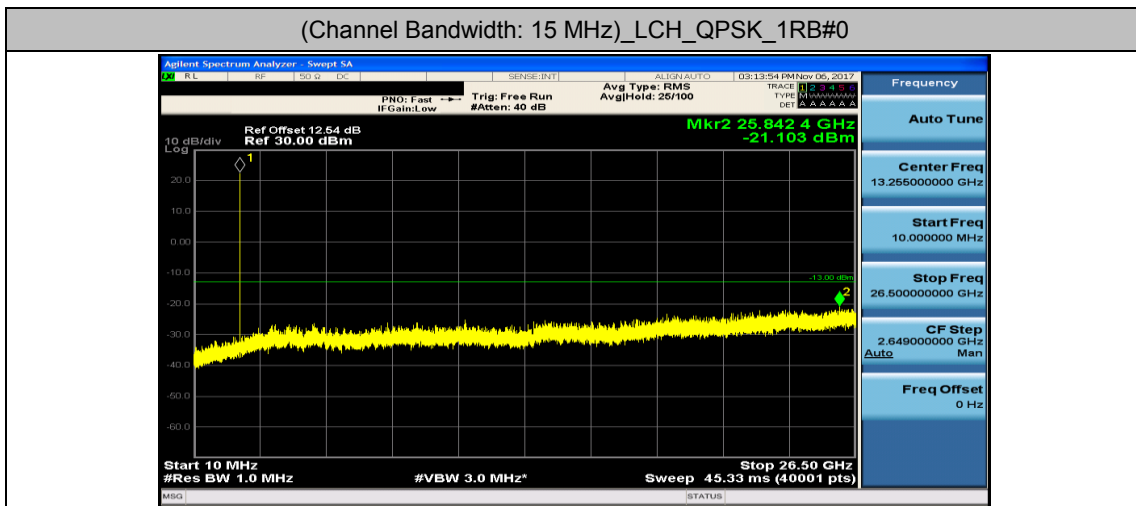


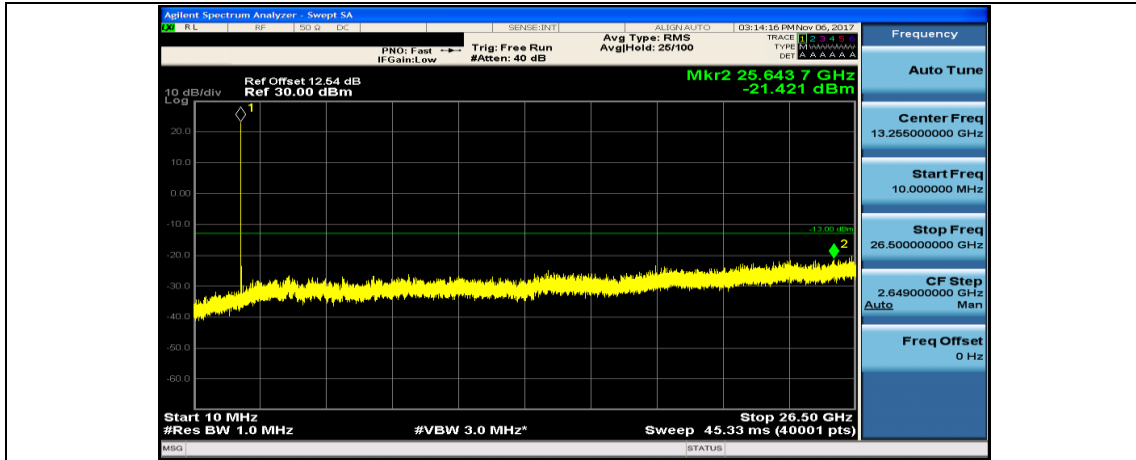
Channel Bandwidth: 10 MHz



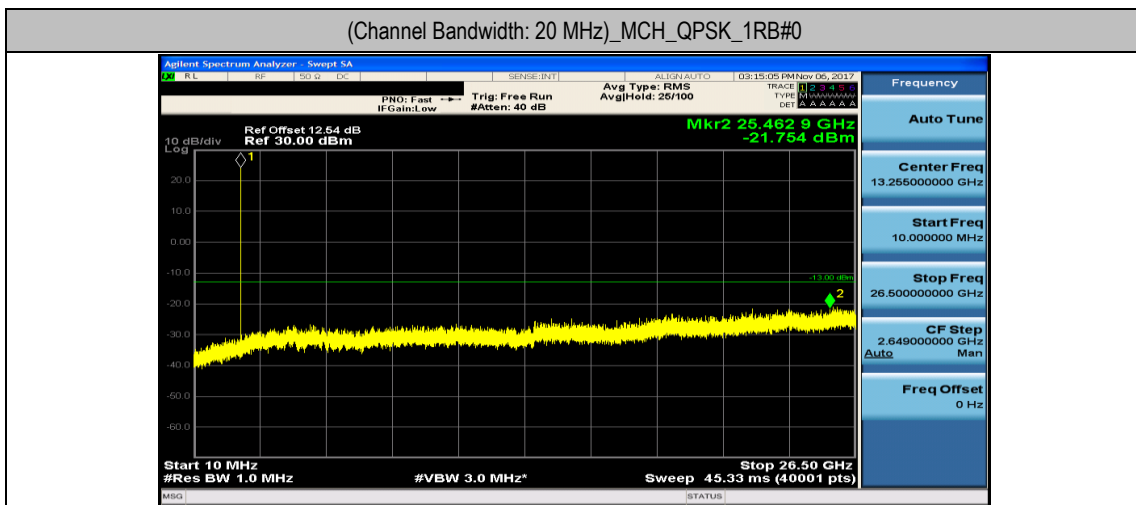
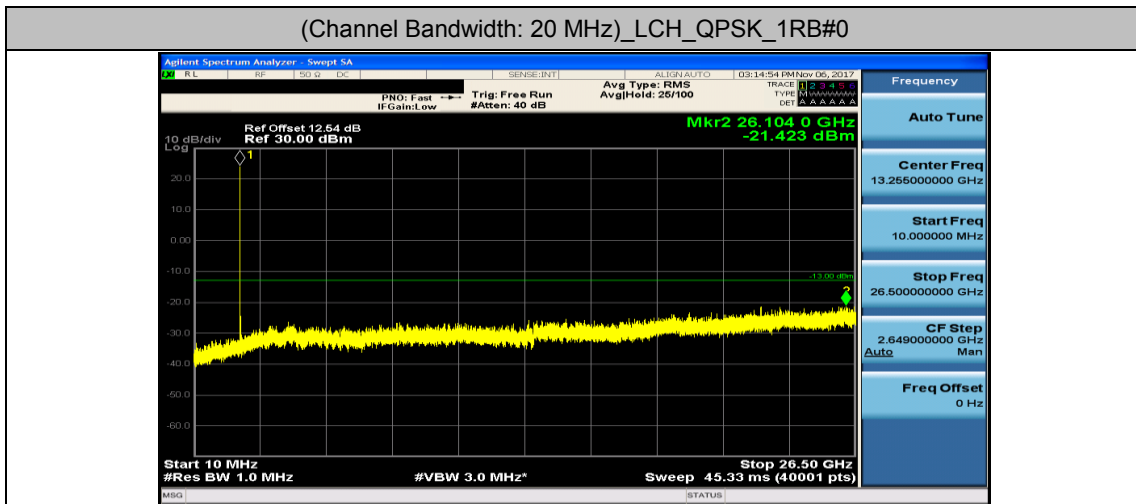


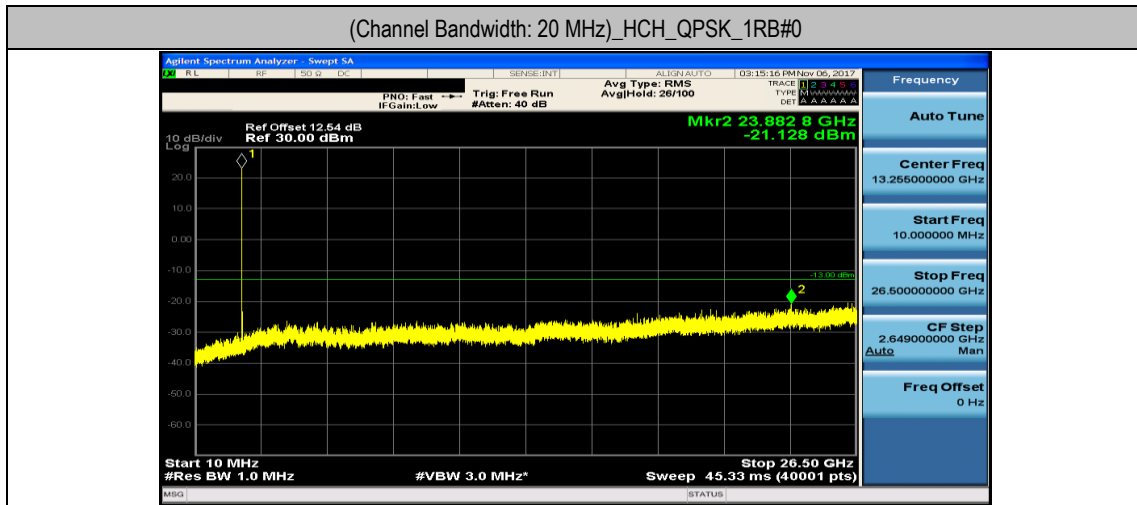
Channel Bandwidth: 15 MHz





Channel Bandwidth: 20 MHz





Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.00	-0.000540	± 2.5	PASS
		VN	TN	-2.70	-0.001459	± 2.5	PASS
		VH	TN	-0.60	-0.000324	± 2.5	PASS
	MCH	VL	TN	-4.70	-0.002500	± 2.5	PASS
		VN	TN	-3.70	-0.001968	± 2.5	PASS
		VH	TN	-2.50	-0.001330	± 2.5	PASS
	HCH	VL	TN	1.40	0.000733	± 2.5	PASS
		VN	TN	0.90	0.000471	± 2.5	PASS
		VH	TN	0.40	0.000210	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-2.60	-0.001405	± 2.5	PASS
		VN	-20	-1.40	-0.000756	± 2.5	PASS
		VN	-10	-1.00	-0.000540	± 2.5	PASS
		VN	0	-3.40	-0.001837	± 2.5	PASS
		VN	10	-2.70	-0.001459	± 2.5	PASS
		VN	20	-0.80	-0.000432	± 2.5	PASS
		VN	30	-0.70	-0.000378	± 2.5	PASS
		VN	40	-2.50	-0.001351	± 2.5	PASS
		VN	50	-1.50	-0.000811	± 2.5	PASS



	MCH	VN	-30	-4.60	-0.002447	± 2.5	PASS
		VN	-20	-2.90	-0.001543	± 2.5	PASS
		VN	-10	-2.00	-0.001064	± 2.5	PASS
		VN	0	-3.30	-0.001755	± 2.5	PASS
		VN	10	-3.90	-0.002074	± 2.5	PASS
		VN	20	-3.10	-0.001649	± 2.5	PASS
		VN	30	-4.40	-0.002340	± 2.5	PASS
		VN	40	-2.30	-0.001223	± 2.5	PASS
		VN	50	-4.50	-0.002394	± 2.5	PASS
	HCH	VN	-30	1.40	0.000733	± 2.5	PASS
		VN	-20	-1.00	-0.000524	± 2.5	PASS
		VN	-10	0.70	0.000367	± 2.5	PASS
		VN	0	-0.90	-0.000471	± 2.5	PASS
		VN	10	1.20	0.000629	± 2.5	PASS
		VN	20	0.50	0.000262	± 2.5	PASS
		VN	30	-0.50	-0.000262	± 2.5	PASS
		VN	40	1.40	0.000733	± 2.5	PASS
		VN	50	-0.70	-0.000367	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-2.70	-0.001458	± 2.5	PASS
		VN	TN	-3.00	-0.001620	± 2.5	PASS
		VH	TN	-3.10	-0.001674	± 2.5	PASS
	MCH	VL	TN	-2.50	-0.001330	± 2.5	PASS
		VN	TN	-3.80	-0.002021	± 2.5	PASS
		VH	TN	-3.30	-0.001755	± 2.5	PASS
	HCH	VL	TN	0.60	0.000314	± 2.5	PASS
		VN	TN	1.40	0.000734	± 2.5	PASS
		VH	TN	0.00	0.000000	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-3.20	-0.001728	± 2.5	PASS
		VN	-20	-2.40	-0.001296	± 2.5	PASS
		VN	-10	-1.30	-0.000702	± 2.5	PASS
		VN	0	-3.90	-0.002106	± 2.5	PASS
		VN	10	-2.50	-0.001350	± 2.5	PASS
		VN	20	-4.50	-0.002430	± 2.5	PASS
		VN	30	-3.40	-0.001836	± 2.5	PASS
		VN	40	-4.70	-0.002538	± 2.5	PASS
		VN	50	-3.40	-0.001836	± 2.5	PASS



	MCH	VN	-30	-2.00	-0.001064	± 2.5	PASS
		VN	-20	-2.00	-0.001064	± 2.5	PASS
		VN	-10	-3.20	-0.001702	± 2.5	PASS
		VN	0	-1.70	-0.000904	± 2.5	PASS
		VN	10	-2.20	-0.001170	± 2.5	PASS
		VN	20	-2.50	-0.001330	± 2.5	PASS
		VN	30	-2.60	-0.001383	± 2.5	PASS
		VN	40	-3.40	-0.001809	± 2.5	PASS
		VN	50	-2.60	-0.001383	± 2.5	PASS
	HCH	VN	-30	1.20	0.000629	± 2.5	PASS
		VN	-20	2.60	0.001362	± 2.5	PASS
		VN	-10	0.40	0.000210	± 2.5	PASS
		VN	0	1.50	0.000786	± 2.5	PASS
		VN	10	2.20	0.001153	± 2.5	PASS
		VN	20	-1.40	-0.000734	± 2.5	PASS
		VN	30	0.40	0.000210	± 2.5	PASS
		VN	40	0.50	0.000262	± 2.5	PASS
		VN	50	0.40	0.000210	± 2.5	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.30	-0.000702	± 2.5	PASS
		VN	TN	-3.90	-0.002105	± 2.5	PASS
		VH	TN	-2.80	-0.001511	± 2.5	PASS
	MCH	VL	TN	-4.90	-0.002606	± 2.5	PASS
		VN	TN	-5.50	-0.002926	± 2.5	PASS
		VH	TN	-2.80	-0.001489	± 2.5	PASS
	HCH	VL	TN	-0.10	-0.000052	± 2.5	PASS
		VN	TN	-0.70	-0.000367	± 2.5	PASS
		VH	TN	0.40	0.000210	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-3.30	-0.001781	± 2.5	PASS
		VN	-20	-1.10	-0.000594	± 2.5	PASS
		VN	-10	-2.60	-0.001404	± 2.5	PASS
		VN	0	-3.60	-0.001943	± 2.5	PASS
		VN	10	-1.20	-0.000648	± 2.5	PASS
		VN	20	-2.40	-0.001296	± 2.5	PASS
		VN	30	-0.70	-0.000378	± 2.5	PASS
		VN	40	-0.80	-0.000432	± 2.5	PASS
		VN	50	-1.40	-0.000756	± 2.5	PASS



	MCH	VN	-30	-2.10	-0.001117	± 2.5	PASS
		VN	-20	-2.80	-0.001489	± 2.5	PASS
		VN	-10	-3.80	-0.002021	± 2.5	PASS
		VN	0	-2.30	-0.001223	± 2.5	PASS
		VN	10	-2.40	-0.001277	± 2.5	PASS
		VN	20	-5.00	-0.002660	± 2.5	PASS
		VN	30	-3.50	-0.001862	± 2.5	PASS
		VN	40	-3.30	-0.001755	± 2.5	PASS
		VN	50	-5.70	-0.003032	± 2.5	PASS
	HCH	VN	-30	-1.50	-0.000786	± 2.5	PASS
		VN	-20	2.50	0.001311	± 2.5	PASS
		VN	-10	0.40	0.000210	± 2.5	PASS
		VN	0	-1.60	-0.000839	± 2.5	PASS
		VN	10	0.90	0.000472	± 2.5	PASS
		VN	20	0.10	0.000052	± 2.5	PASS
		VN	30	-0.10	-0.000052	± 2.5	PASS
		VN	40	1.30	0.000682	± 2.5	PASS
		VN	50	-0.10	-0.000052	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-2.10	-0.001132	± 2.5	PASS
		VN	TN	-2.10	-0.001132	± 2.5	PASS
		VH	TN	-1.90	-0.001024	± 2.5	PASS
	MCH	VL	TN	-2.20	-0.001170	± 2.5	PASS
		VN	TN	1.10	0.000585	± 2.5	PASS
		VH	TN	-3.60	-0.001915	± 2.5	PASS
	HCH	VL	TN	1.40	0.000735	± 2.5	PASS
		VN	TN	3.80	0.001995	± 2.5	PASS
		VH	TN	1.90	0.000997	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-3.90	-0.002102	± 2.5	PASS
		VN	-20	-4.50	-0.002426	± 2.5	PASS
		VN	-10	-3.70	-0.001995	± 2.5	PASS
		VN	0	-3.50	-0.001887	± 2.5	PASS
		VN	10	-2.00	-0.001078	± 2.5	PASS
		VN	20	-3.00	-0.001617	± 2.5	PASS
		VN	30	-4.90	-0.002642	± 2.5	PASS
		VN	40	-1.70	-0.000916	± 2.5	PASS
		VN	50	-1.90	-0.001024	± 2.5	PASS



	MCH	VN	-30	-3.60	-0.001915	± 2.5	PASS
		VN	-20	-2.60	-0.001383	± 2.5	PASS
		VN	-10	-1.10	-0.000585	± 2.5	PASS
		VN	0	-3.40	-0.001809	± 2.5	PASS
		VN	10	-2.20	-0.001170	± 2.5	PASS
		VN	20	-3.80	-0.002021	± 2.5	PASS
		VN	30	-2.50	-0.001330	± 2.5	PASS
		VN	40	-4.70	-0.002500	± 2.5	PASS
		VN	50	-2.50	-0.001330	± 2.5	PASS
	HCH	VN	-30	1.20	0.000630	± 2.5	PASS
		VN	-20	-0.50	-0.000262	± 2.5	PASS
		VN	-10	-0.30	-0.000157	± 2.5	PASS
		VN	0	-1.10	-0.000577	± 2.5	PASS
		VN	10	1.90	0.000997	± 2.5	PASS
		VN	20	-0.30	-0.000157	± 2.5	PASS
		VN	30	0.30	0.000157	± 2.5	PASS
		VN	40	-0.60	-0.000315	± 2.5	PASS
		VN	50	0.90	0.000472	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-2.40	-0.001292	± 2.5	PASS
		VN	TN	-2.30	-0.001238	± 2.5	PASS
		VH	TN	-3.70	-0.001992	± 2.5	PASS
	MCH	VL	TN	-3.00	-0.001596	± 2.5	PASS
		VN	TN	2.10	0.001117	± 2.5	PASS
		VH	TN	-1.60	-0.000851	± 2.5	PASS
	HCH	VL	TN	-0.60	-0.000315	± 2.5	PASS
		VN	TN	1.80	0.000946	± 2.5	PASS
		VH	TN	-3.80	-0.001997	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.60	-0.000861	± 2.5	PASS
		VN	-20	-3.30	-0.001777	± 2.5	PASS
		VN	-10	-4.50	-0.002423	± 2.5	PASS
		VN	0	-1.40	-0.000754	± 2.5	PASS
		VN	10	-3.00	-0.001615	± 2.5	PASS
		VN	20	-3.40	-0.001830	± 2.5	PASS
		VN	30	-3.10	-0.001669	± 2.5	PASS
		VN	40	-3.40	-0.001830	± 2.5	PASS
		VN	50	-2.90	-0.001561	± 2.5	PASS



	MCH	VN	-30	-1.90	-0.001011	± 2.5	PASS
		VN	-20	-2.50	-0.001330	± 2.5	PASS
		VN	-10	-2.40	-0.001277	± 2.5	PASS
		VN	0	-3.90	-0.002074	± 2.5	PASS
		VN	10	-2.70	-0.001436	± 2.5	PASS
		VN	20	-2.30	-0.001223	± 2.5	PASS
		VN	30	-0.70	-0.000372	± 2.5	PASS
		VN	40	-2.10	-0.001117	± 2.5	PASS
		VN	50	-1.00	-0.000532	± 2.5	PASS
	HCH	VN	-30	-1.20	-0.000631	± 2.5	PASS
		VN	-20	-2.50	-0.001314	± 2.5	PASS
		VN	-10	-1.90	-0.000999	± 2.5	PASS
		VN	0	-1.20	-0.000631	± 2.5	PASS
		VN	10	-1.90	-0.000999	± 2.5	PASS
		VN	20	-3.70	-0.001945	± 2.5	PASS
		VN	30	-0.90	-0.000473	± 2.5	PASS
		VN	40	-0.80	-0.000420	± 2.5	PASS
		VN	50	-0.80	-0.000420	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.40	0.000215	± 2.5	PASS
		VN	TN	1.80	0.000968	± 2.5	PASS
		VH	TN	1.20	0.000645	± 2.5	PASS
	MCH	VL	TN	-4.00	-0.002128	± 2.5	PASS
		VN	TN	0.40	0.000213	± 2.5	PASS
		VH	TN	-4.40	-0.002340	± 2.5	PASS
	HCH	VL	TN	-1.30	-0.000684	± 2.5	PASS
		VN	TN	2.00	0.001053	± 2.5	PASS
		VH	TN	-3.40	-0.001789	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.20	0.001720	± 2.5	PASS
		VN	-20	0.80	0.000430	± 2.5	PASS
		VN	-10	1.00	0.000538	± 2.5	PASS
		VN	0	-0.70	-0.000376	± 2.5	PASS
		VN	10	2.30	0.001237	± 2.5	PASS
		VN	20	2.40	0.001290	± 2.5	PASS
		VN	30	2.40	0.001290	± 2.5	PASS
		VN	40	0.00	0.000000	± 2.5	PASS
		VN	50	0.70	0.000376	± 2.5	PASS



	MCH	VN	-30	-3.50	-0.001862	± 2.5	PASS
		VN	-20	-1.30	-0.000691	± 2.5	PASS
		VN	-10	-3.10	-0.001649	± 2.5	PASS
		VN	0	-2.90	-0.001543	± 2.5	PASS
		VN	10	-3.60	-0.001915	± 2.5	PASS
		VN	20	-4.00	-0.002128	± 2.5	PASS
		VN	30	-2.20	-0.001170	± 2.5	PASS
		VN	40	-2.10	-0.001117	± 2.5	PASS
		VN	50	-2.30	-0.001223	± 2.5	PASS
	HCH	VN	-30	-4.60	-0.002421	± 2.5	PASS
		VN	-20	-3.20	-0.001684	± 2.5	PASS
		VN	-10	-2.60	-0.001368	± 2.5	PASS
		VN	0	-2.20	-0.001158	± 2.5	PASS
		VN	10	-1.60	-0.000842	± 2.5	PASS
		VN	20	-2.10	-0.001105	± 2.5	PASS
		VN	30	-2.50	-0.001316	± 2.5	PASS
		VN	40	-2.30	-0.001211	± 2.5	PASS
		VN	50	-3.30	-0.001737	± 2.5	PASS