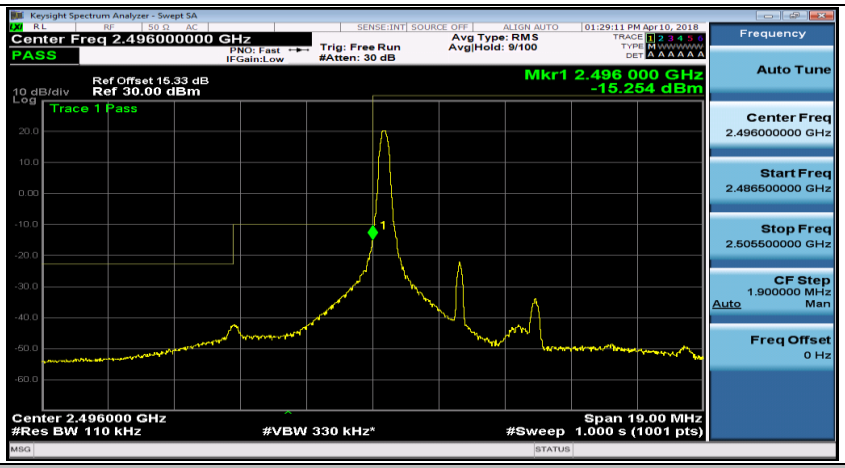
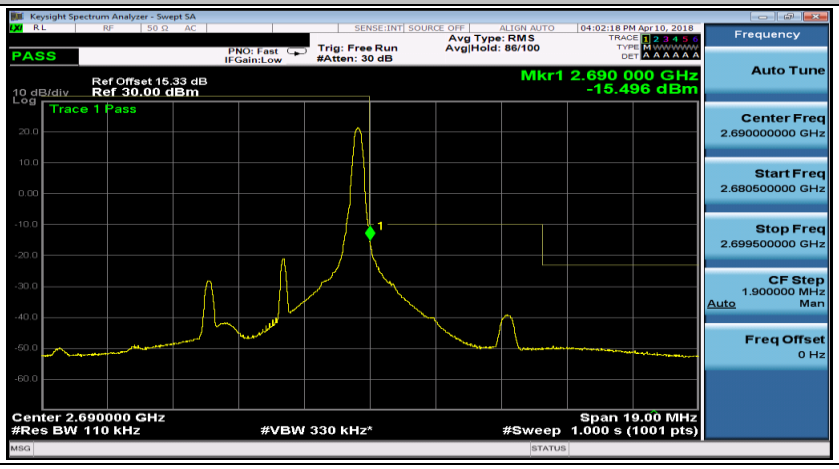
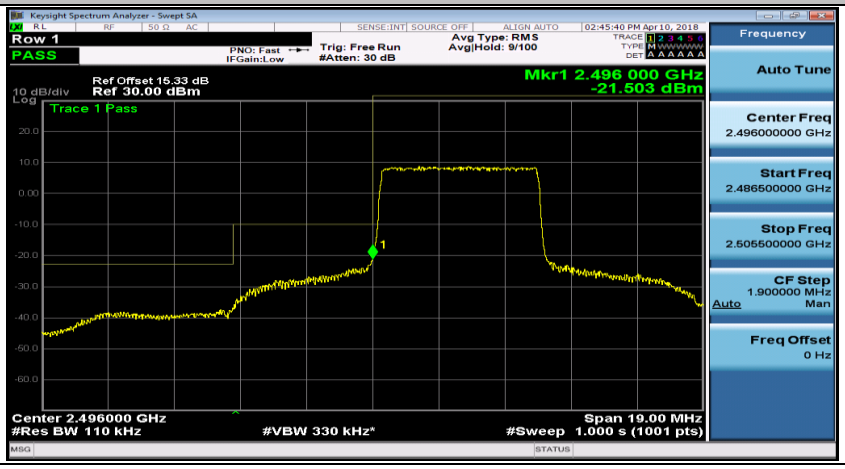


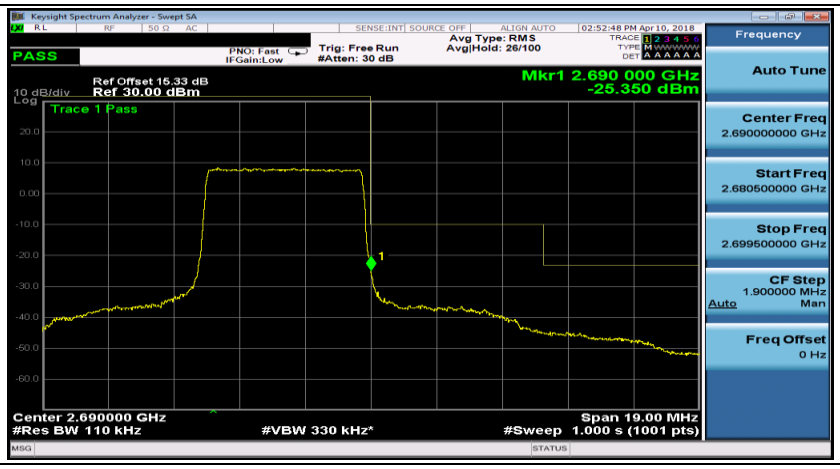
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



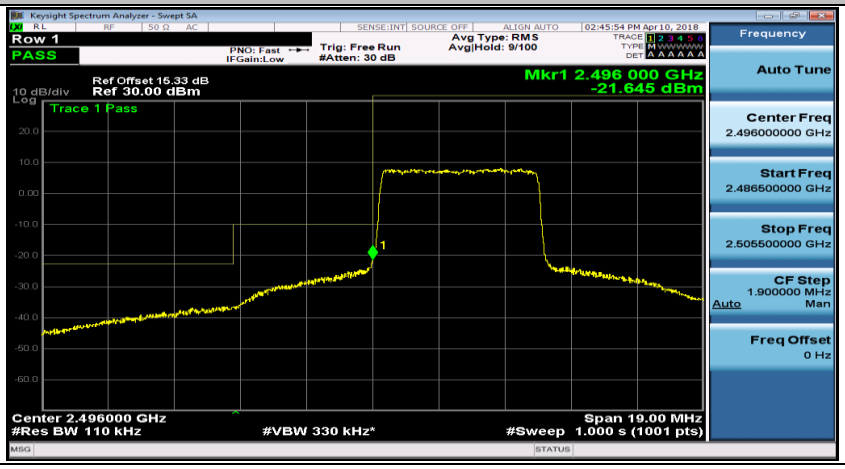
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

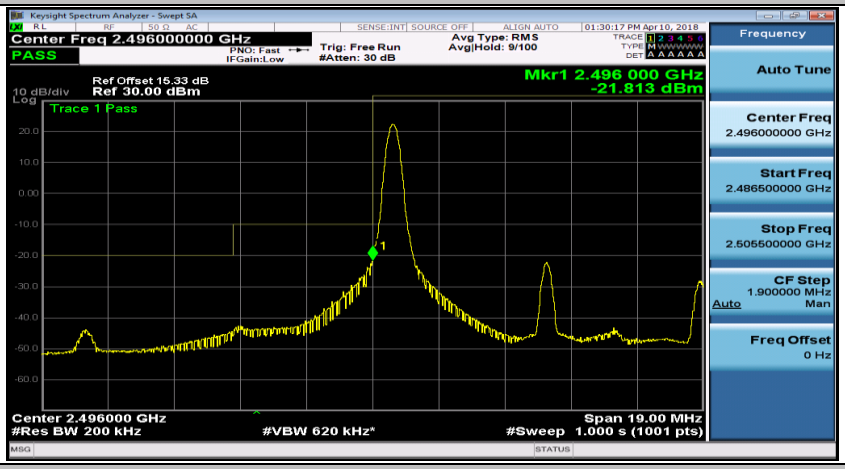
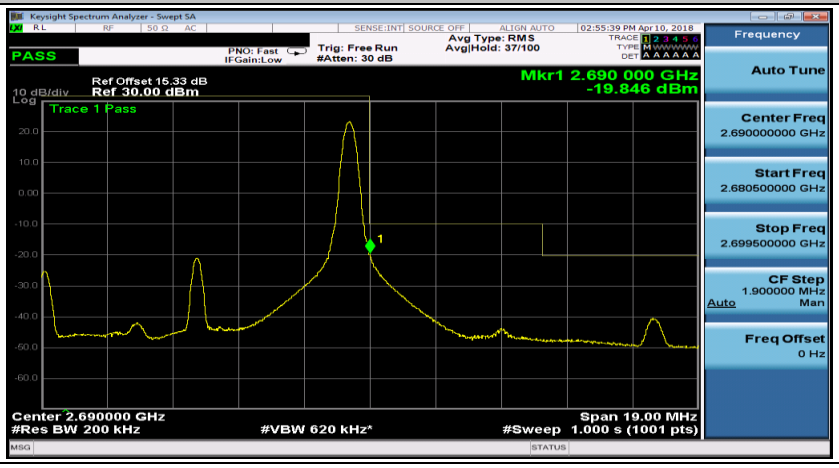


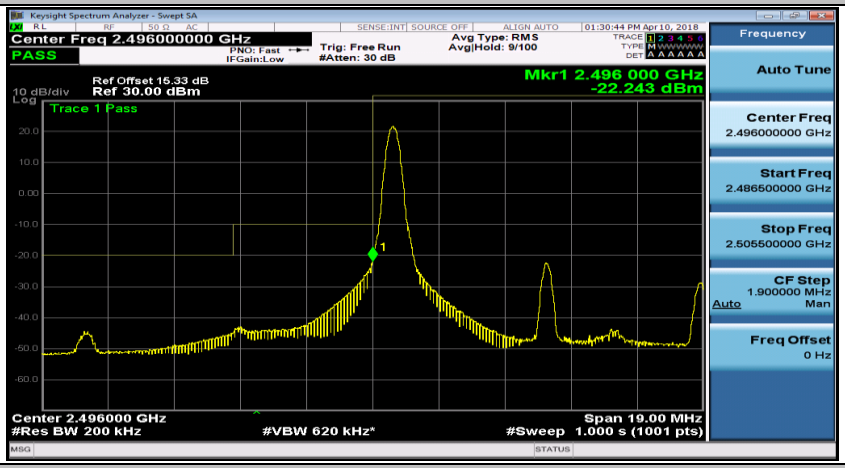
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

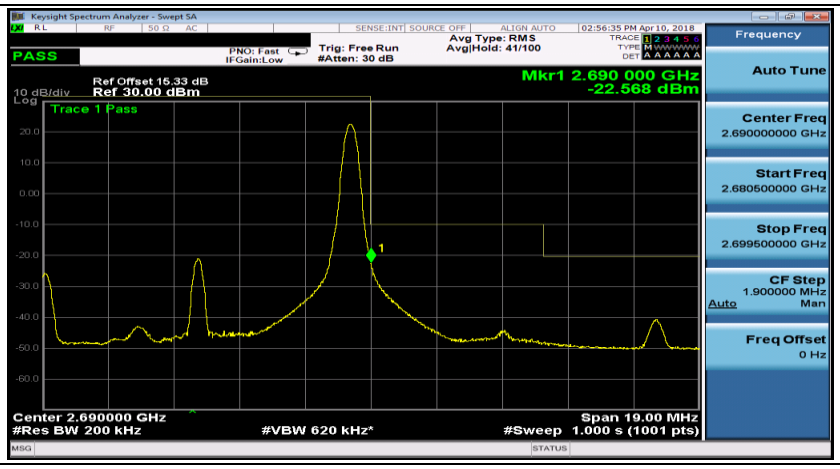


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

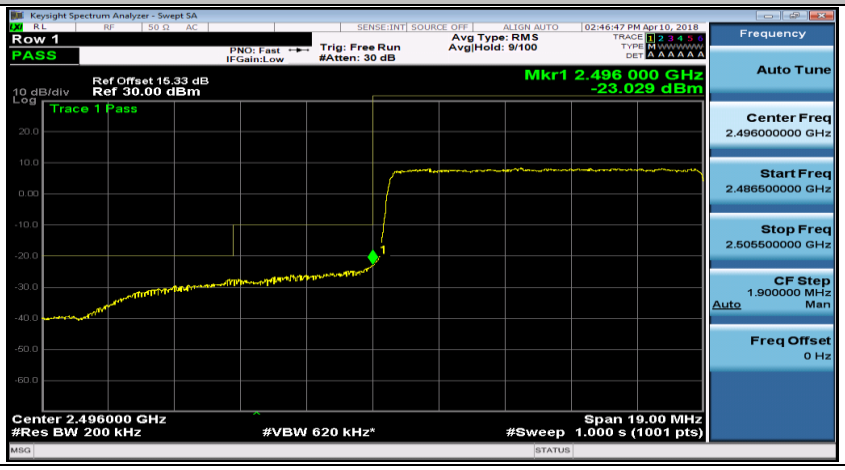
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

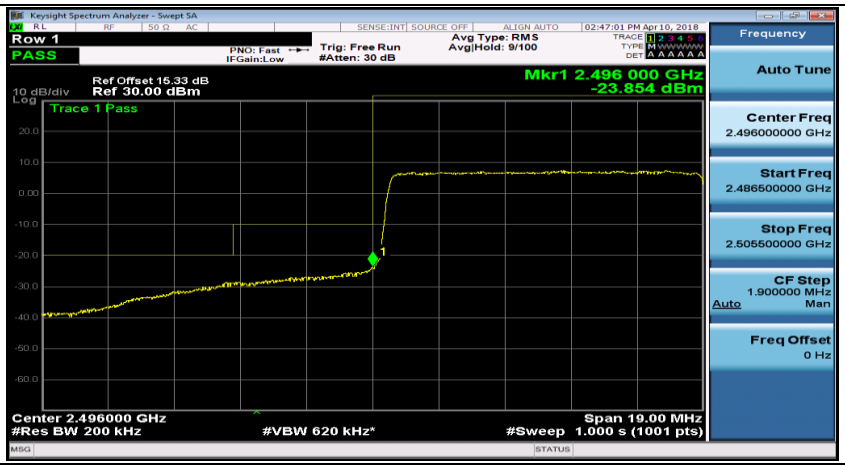


(Channel Bandwidth: 10 MHz)_LCH_QPSK_50RB#0



(Channel Bandwidth: 10 MHz)_HCH_QPSK_50RB#0

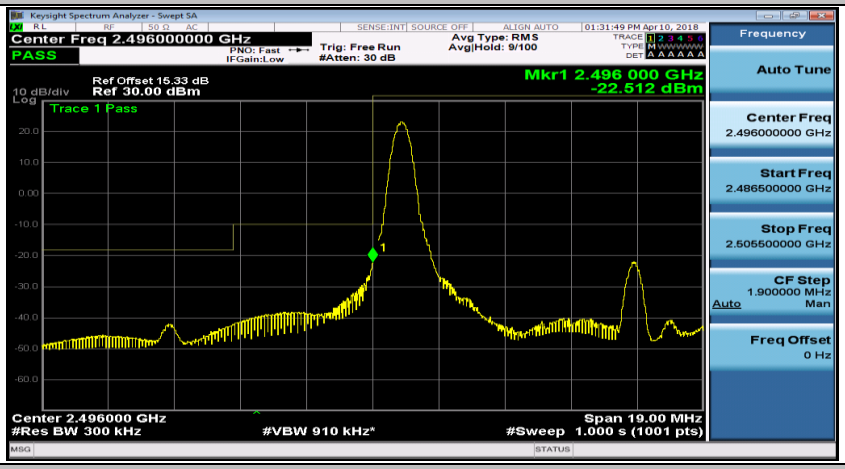
(Channel Bandwidth: 10 MHz)_LCH_16QAM_50RB#0



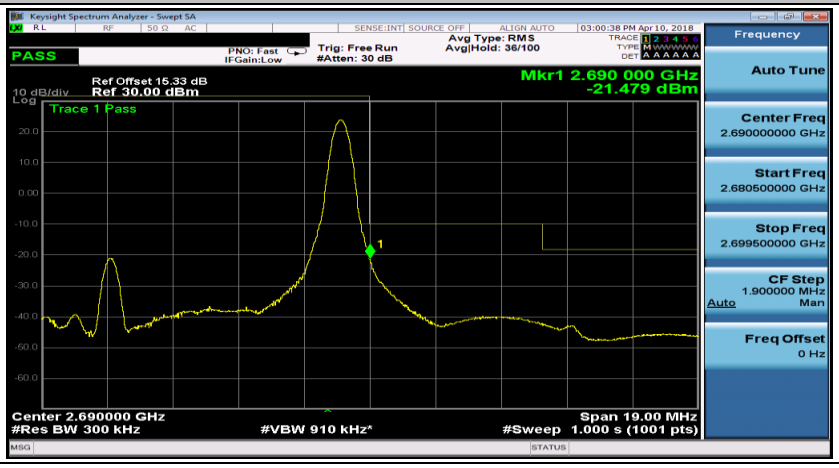
(Channel Bandwidth: 10 MHz)_HCH_16QAM_50RB#0

Channel Bandwidth: 15 MHz

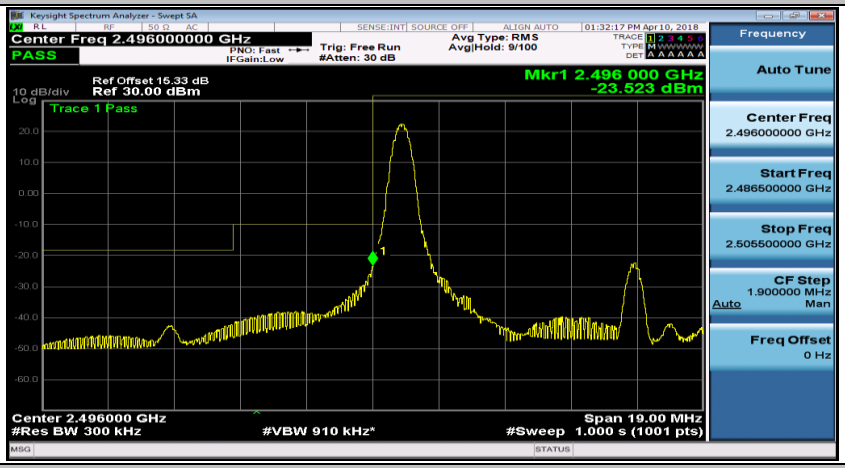
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0



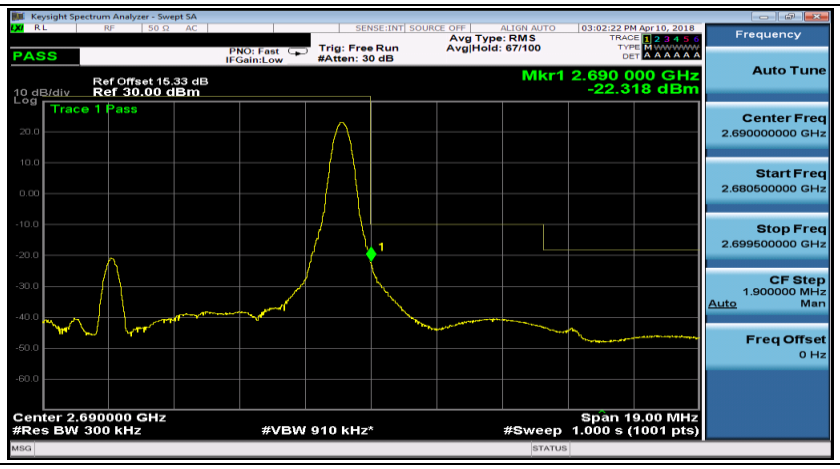
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74



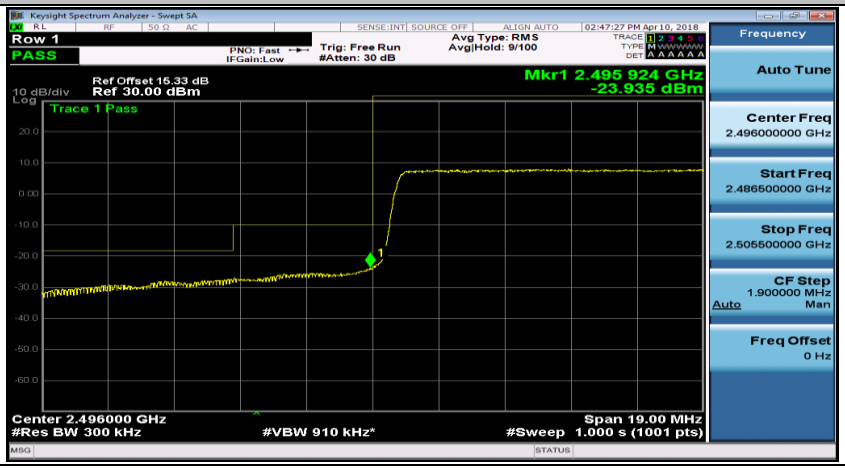
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0



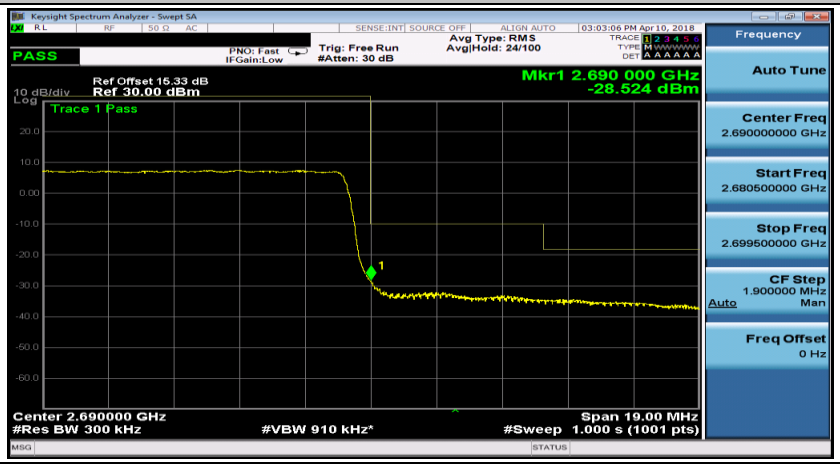
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74



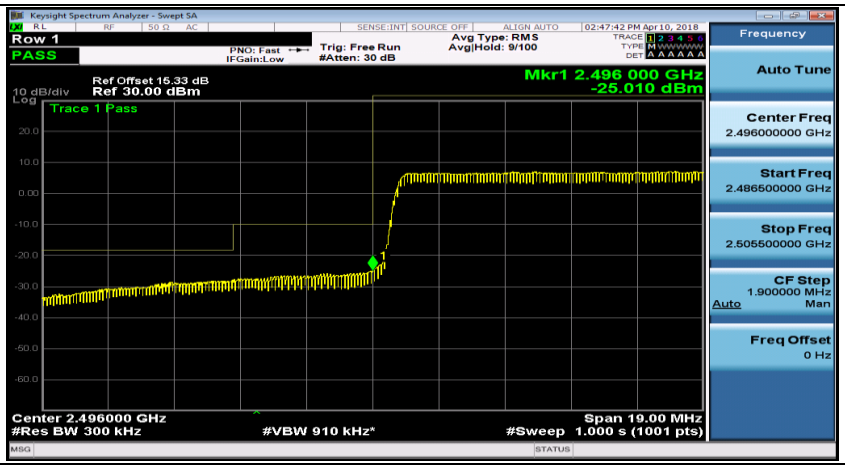
(Channel Bandwidth: 15 MHz)_LCH_QPSK_75RB#0



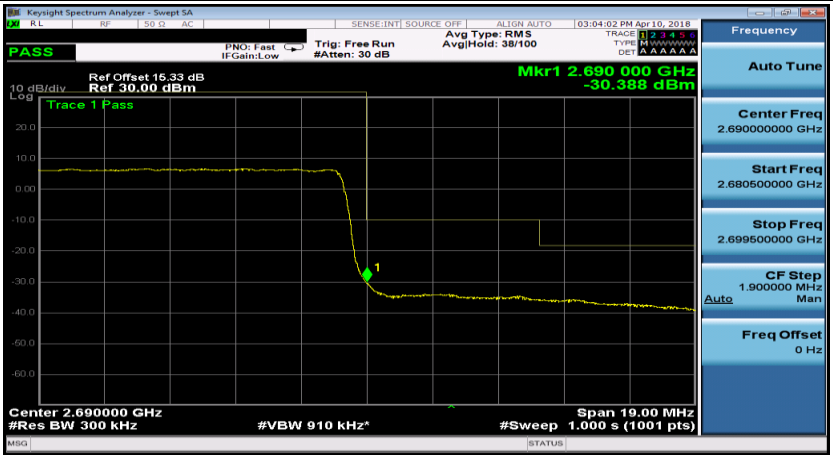
(Channel Bandwidth: 15 MHz)_HCH_QPSK_75RB#0



(Channel Bandwidth: 15 MHz)_LCH_16QAM_75RB#0

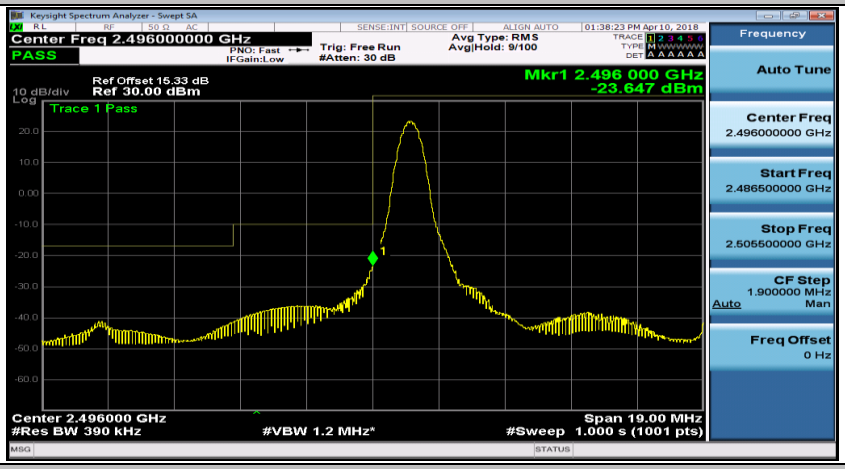


(Channel Bandwidth: 15 MHz)_HCH_16QAM_75RB#0

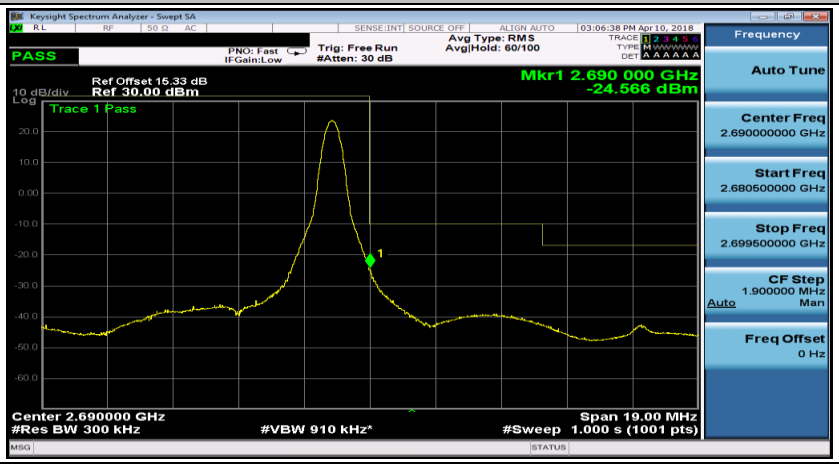


Channel Bandwidth: 20 MHz

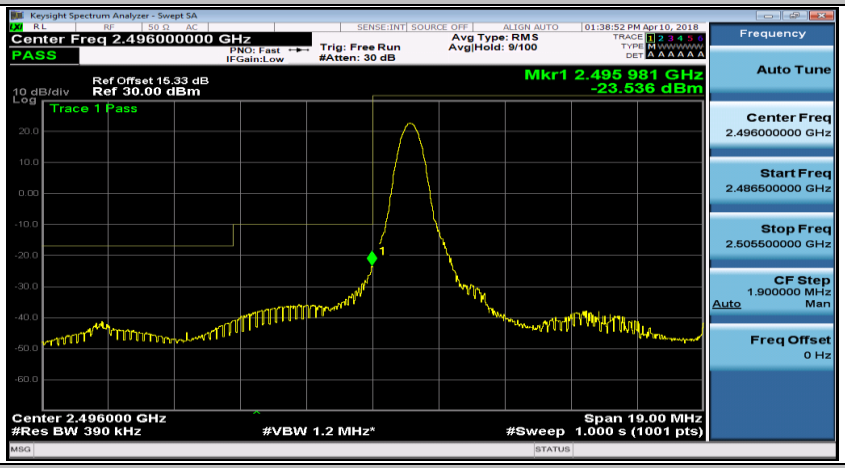
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0



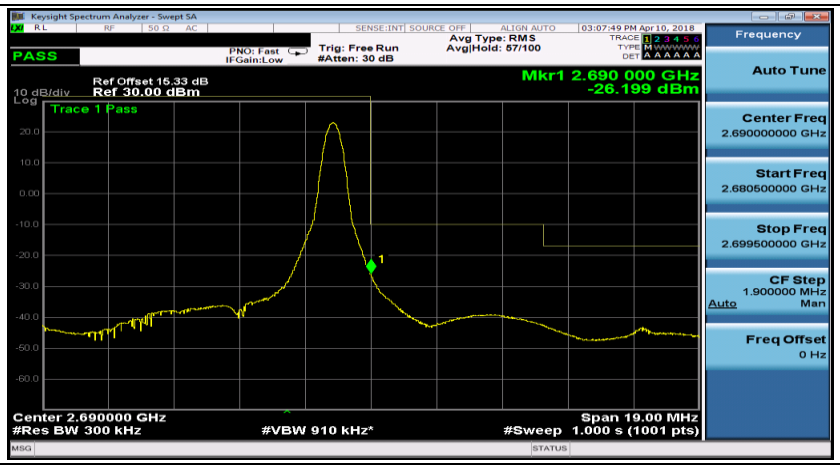
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99



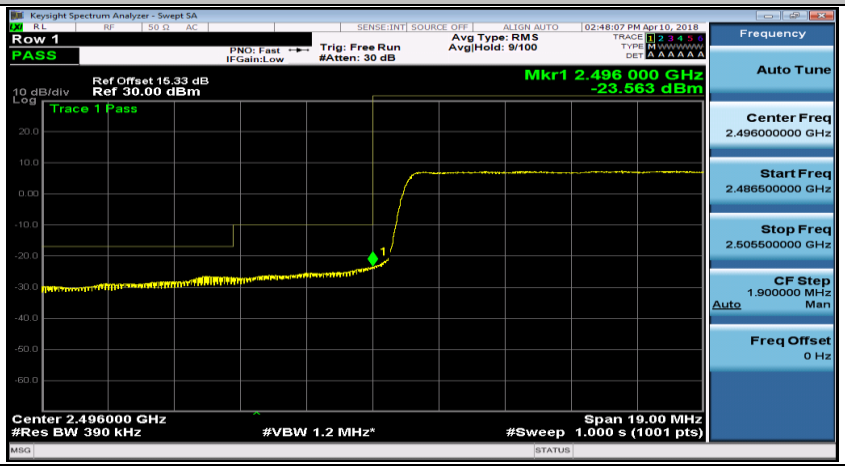
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0



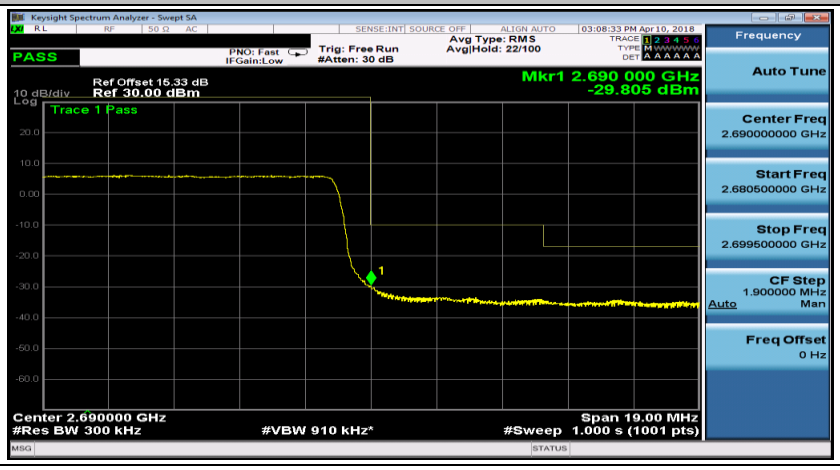
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#99



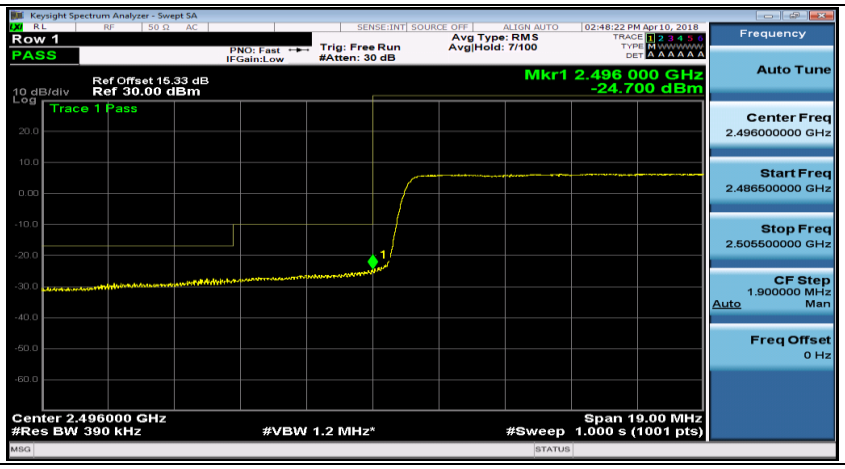
(Channel Bandwidth: 20 MHz)_LCH_QPSK_100RB#0



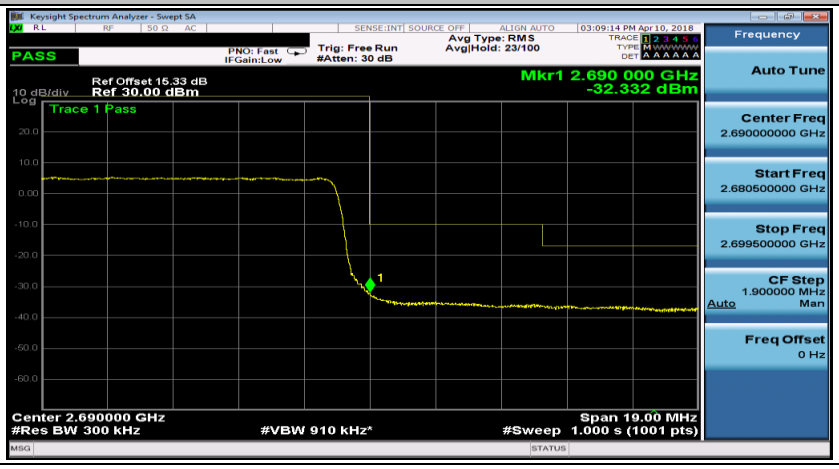
(Channel Bandwidth: 20 MHz)_HCH_QPSK_100RB#0



(Channel Bandwidth: 20 MHz)_LCH_16QAM_100RB#0



(Channel Bandwidth: 20 MHz)_HCH_16QAM_100RB#0

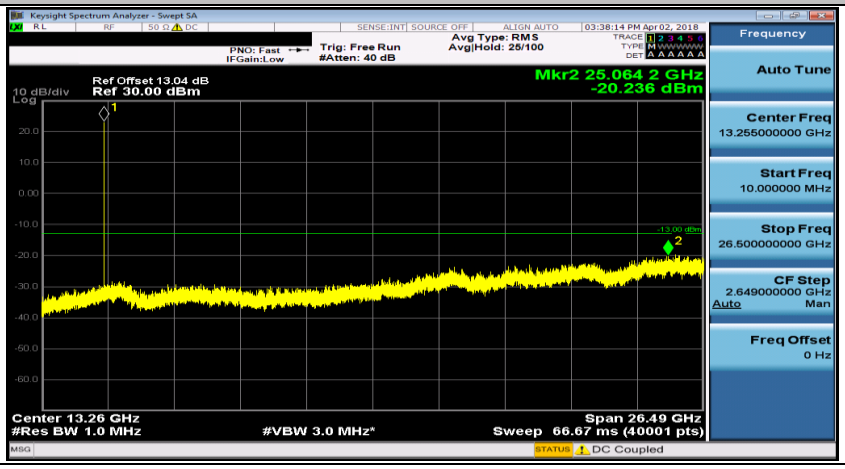


Appendix E: Conducted Spurious Emission

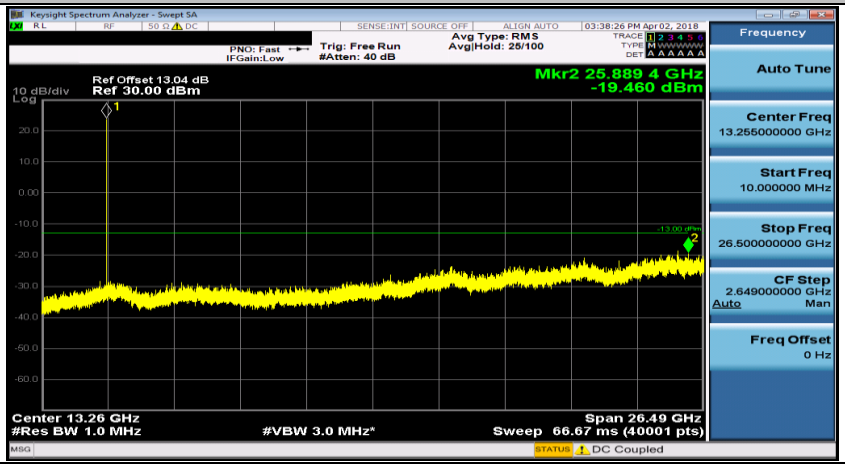
Test Graphs

Channel Bandwidth: 5 MHz

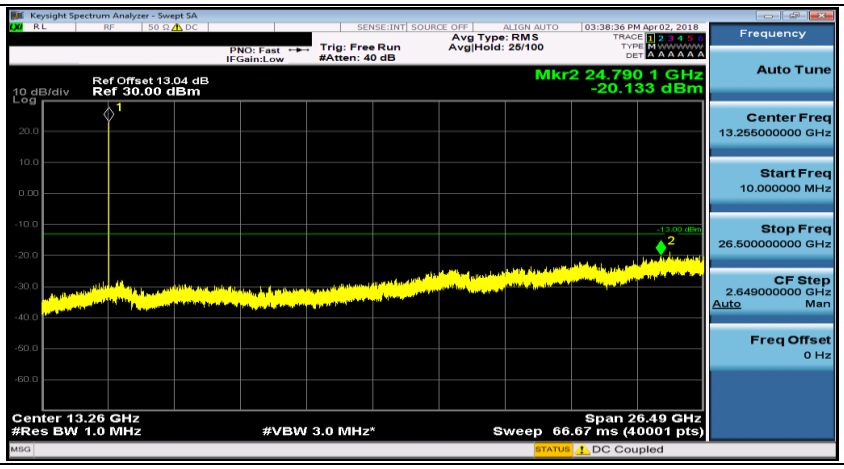
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

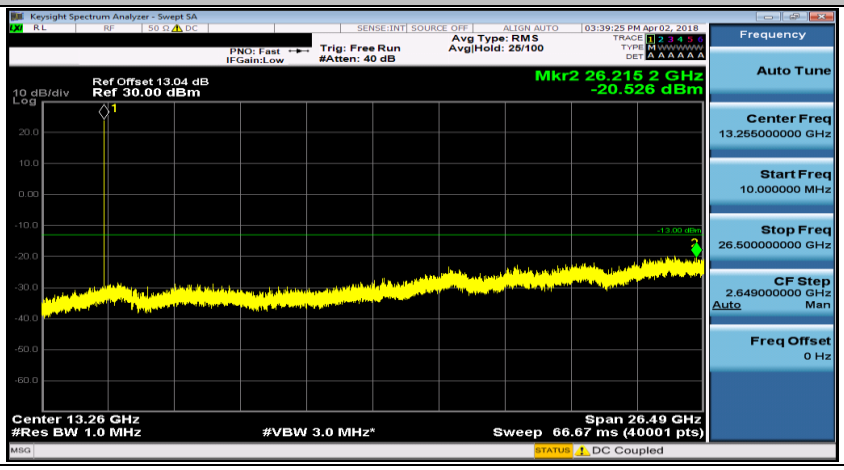


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

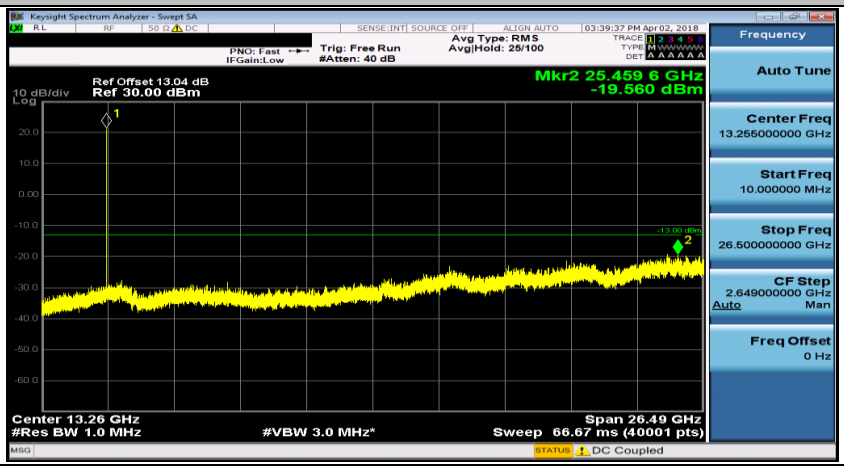


Channel Bandwidth: 10 MHz

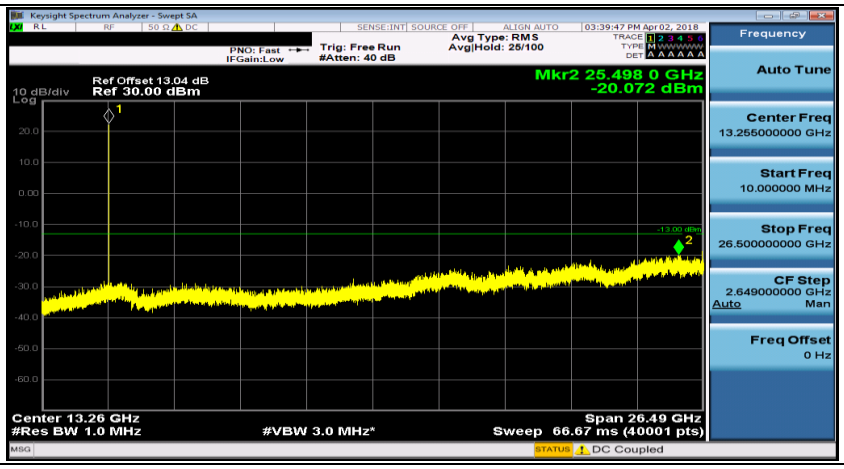
(Channel Bandwidth: 10 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 10 MHz)_MCH_QPSK_1RB#0

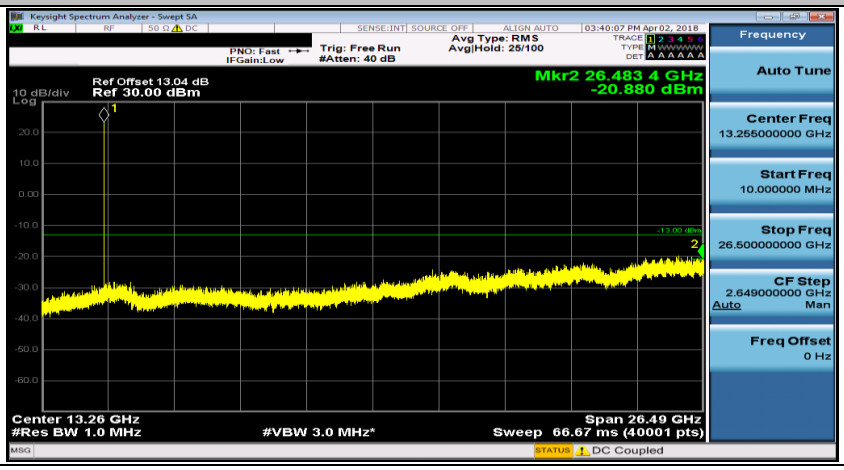


(Channel Bandwidth: 10 MHz)_HCH_QPSK_1RB#0

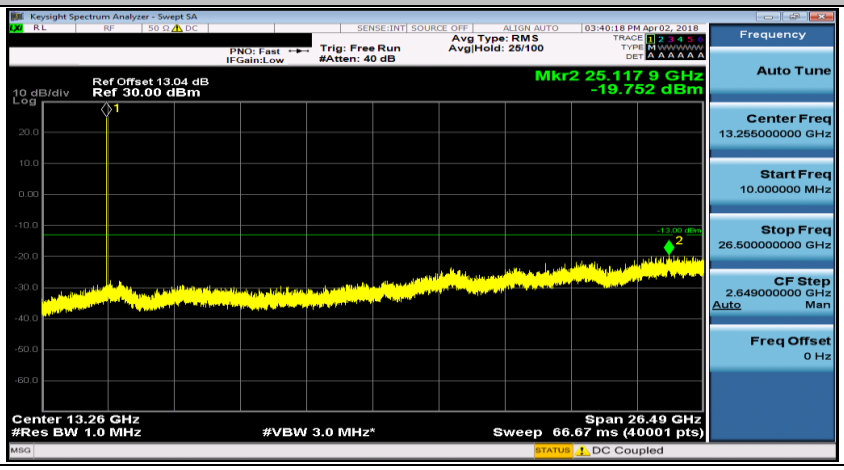


Channel Bandwidth: 15 MHz

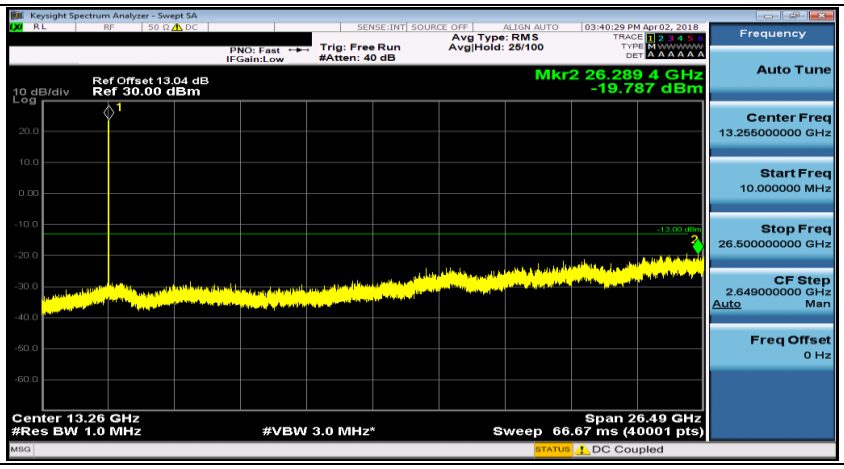
(Channel Bandwidth: 15 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 15 MHz)_MCH_QPSK_1RB#0

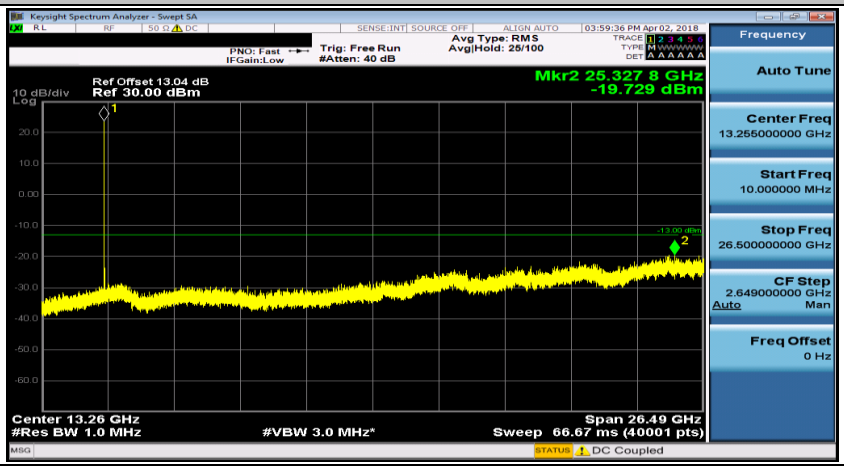


(Channel Bandwidth: 15 MHz)_HCH_QPSK_1RB#0

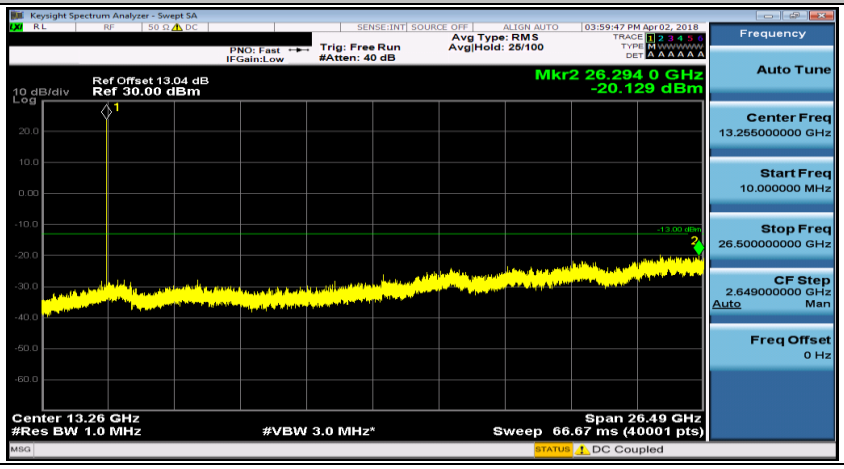


Channel Bandwidth: 20 MHz

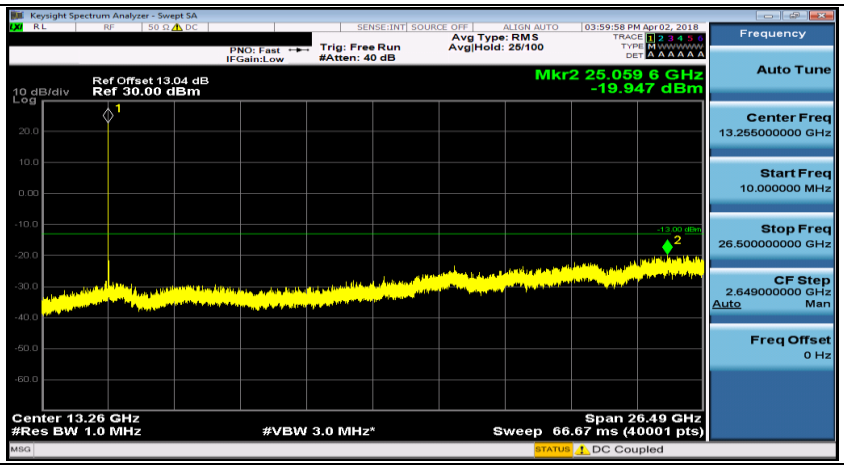
(Channel Bandwidth: 20 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 20 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 20 MHz)_HCH_QPSK_1RB#0



Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-4.30	-0.001721	± 2.5	PASS
		VN	TN	-3.90	-0.001561	± 2.5	PASS
		VH	TN	-3.70	-0.001481	± 2.5	PASS
	MCH	VL	TN	-2.20	-0.000848	± 2.5	PASS
		VN	TN	-5.00	-0.001928	± 2.5	PASS
		VH	TN	-3.30	-0.001273	± 2.5	PASS
	HCH	VL	TN	-3.80	-0.001414	± 2.5	PASS
		VN	TN	-2.60	-0.000967	± 2.5	PASS
		VH	TN	-4.00	-0.001488	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-3.30	-0.001321	± 2.5	PASS
		VN	-20	-4.40	-0.001761	± 2.5	PASS
		VN	-10	-4.30	-0.001721	± 2.5	PASS
		VN	0	-5.80	-0.002321	± 2.5	PASS
		VN	10	-4.70	-0.001881	± 2.5	PASS
		VN	20	-5.00	-0.002001	± 2.5	PASS
		VN	30	-4.10	-0.001641	± 2.5	PASS
		VN	40	-2.10	-0.000841	± 2.5	PASS
		VN	50	-4.30	-0.001721	± 2.5	PASS
	MCH	VN	-30	-5.40	-0.002083	± 2.5	PASS

		VN	-20	-3.90	-0.001504	± 2.5	PASS
		VN	-10	-4.00	-0.001543	± 2.5	PASS
		VN	0	-3.30	-0.001273	± 2.5	PASS
		VN	10	-5.80	-0.002237	± 2.5	PASS
		VN	20	-4.90	-0.001890	± 2.5	PASS
		VN	30	-7.20	-0.002777	± 2.5	PASS
		VN	40	-4.20	-0.001620	± 2.5	PASS
		VN	50	-5.40	-0.002083	± 2.5	PASS
	HCH	VN	-30	-4.50	-0.001674	± 2.5	PASS
		VN	-20	-1.90	-0.000707	± 2.5	PASS
		VN	-10	-4.50	-0.001674	± 2.5	PASS
		VN	0	-4.90	-0.001823	± 2.5	PASS
		VN	10	-3.00	-0.001116	± 2.5	PASS
		VN	20	-4.30	-0.001600	± 2.5	PASS
		VN	30	-3.30	-0.001228	± 2.5	PASS
		VN	40	-2.70	-0.001005	± 2.5	PASS
		VN	50	-6.50	-0.002419	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.90	-0.000760	± 2.5	PASS
		VN	TN	1.50	0.000600	± 2.5	PASS
		VH	TN	-2.30	-0.000920	± 2.5	PASS
	MCH	VL	TN	-3.20	-0.001234	± 2.5	PASS
		VN	TN	0.30	0.000116	± 2.5	PASS
		VH	TN	-3.00	-0.001157	± 2.5	PASS
	HCH	VL	TN	-7.00	-0.002607	± 2.5	PASS
		VN	TN	-7.60	-0.002831	± 2.5	PASS
		VH	TN	-9.70	-0.003613	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-2.30	-0.000920	± 2.5	PASS
		VN	-20	-1.30	-0.000520	± 2.5	PASS
		VN	-10	-2.50	-0.001000	± 2.5	PASS
		VN	0	-5.60	-0.002239	± 2.5	PASS
		VN	10	-3.60	-0.001439	± 2.5	PASS
		VN	20	-2.20	-0.000880	± 2.5	PASS
		VN	30	-3.60	-0.001439	± 2.5	PASS
		VN	40	-2.40	-0.000960	± 2.5	PASS
		VN	50	-2.20	-0.000880	± 2.5	PASS
	MCH	VN	-30	-2.60	-0.001003	± 2.5	PASS
		VN	-20	-5.80	-0.002237	± 2.5	PASS
		VN	-10	-2.60	-0.001003	± 2.5	PASS

		VN	0	-3.40	-0.001311	± 2.5	PASS
		VN	10	-2.60	-0.001003	± 2.5	PASS
		VN	20	-2.50	-0.000964	± 2.5	PASS
		VN	30	-4.60	-0.001774	± 2.5	PASS
		VN	40	-4.60	-0.001774	± 2.5	PASS
		VN	50	-4.10	-0.001581	± 2.5	PASS
	HCH	VN	-30	-7.60	-0.002831	± 2.5	PASS
		VN	-20	-5.80	-0.002160	± 2.5	PASS
		VN	-10	-7.50	-0.002793	± 2.5	PASS
		VN	0	-11.00	-0.004097	± 2.5	PASS
		VN	10	-8.40	-0.003128	± 2.5	PASS
		VN	20	-6.20	-0.002309	± 2.5	PASS
		VN	30	-10.60	-0.003948	± 2.5	PASS
		VN	40	-8.00	-0.002980	± 2.5	PASS
		VN	50	-7.90	-0.002942	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-8.90	-0.003555	± 2.5	PASS
		VN	TN	-9.00	-0.003595	± 2.5	PASS
		VH	TN	-7.80	-0.003116	± 2.5	PASS
	MCH	VL	TN	-1.30	-0.000501	± 2.5	PASS
		VN	TN	1.40	0.000540	± 2.5	PASS
		VH	TN	-2.70	-0.001041	± 2.5	PASS
	HCH	VL	TN	-2.00	-0.000746	± 2.5	PASS
		VN	TN	0.10	0.000037	± 2.5	PASS
		VH	TN	-2.50	-0.000932	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-7.30	-0.002916	± 2.5	PASS
		VN	-20	-8.30	-0.003315	± 2.5	PASS
		VN	-10	-7.80	-0.003116	± 2.5	PASS
		VN	0	-9.00	-0.003595	± 2.5	PASS
		VN	10	-11.80	-0.004713	± 2.5	PASS
		VN	20	-8.60	-0.003435	± 2.5	PASS
		VN	30	-6.30	-0.002516	± 2.5	PASS
		VN	40	-8.80	-0.003515	± 2.5	PASS
		VN	50	-8.20	-0.003275	± 2.5	PASS
	MCH	VN	-30	-5.10	-0.001967	± 2.5	PASS
		VN	-20	-0.90	-0.000347	± 2.5	PASS
		VN	-10	-4.40	-0.001697	± 2.5	PASS
		VN	0	-1.60	-0.000617	± 2.5	PASS
		VN	10	-2.80	-0.001080	± 2.5	PASS

		VN	20	-2.30	-0.000887	± 2.5	PASS
		VN	30	-2.10	-0.000810	± 2.5	PASS
		VN	40	-1.00	-0.000386	± 2.5	PASS
		VN	50	-1.30	-0.000501	± 2.5	PASS
	HCH	VN	-30	0.10	0.000037	± 2.5	PASS
		VN	-20	-3.50	-0.001305	± 2.5	PASS
		VN	-10	-2.40	-0.000895	± 2.5	PASS
		VN	0	-4.20	-0.001566	± 2.5	PASS
		VN	10	-4.00	-0.001491	± 2.5	PASS
		VN	20	-2.30	-0.000857	± 2.5	PASS
		VN	30	-2.70	-0.001007	± 2.5	PASS
		VN	40	-3.00	-0.001118	± 2.5	PASS
		VN	50	-2.00	-0.000746	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-4.30	-0.001716	± 2.5	PASS
		VN	TN	0.80	0.000319	± 2.5	PASS
		VH	TN	-5.60	-0.002235	± 2.5	PASS
	MCH	VL	TN	-3.20	-0.001234	± 2.5	PASS
		VN	TN	-0.50	-0.000193	± 2.5	PASS
		VH	TN	-3.60	-0.001388	± 2.5	PASS
	HCH	VL	TN	-7.30	-0.002724	± 2.5	PASS
		VN	TN	-1.80	-0.000672	± 2.5	PASS
		VH	TN	-4.20	-0.001567	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-3.90	-0.001556	± 2.5	PASS
		VN	-20	-3.30	-0.001317	± 2.5	PASS
		VN	-10	-2.80	-0.001117	± 2.5	PASS
		VN	0	-3.40	-0.001357	± 2.5	PASS
		VN	10	-5.70	-0.002275	± 2.5	PASS
		VN	20	-2.20	-0.000878	± 2.5	PASS
		VN	30	-2.60	-0.001038	± 2.5	PASS
		VN	40	-6.10	-0.002434	± 2.5	PASS
		VN	50	-4.30	-0.001716	± 2.5	PASS
	MCH	VN	-30	-1.70	-0.000656	± 2.5	PASS
		VN	-20	-2.80	-0.001080	± 2.5	PASS
		VN	-10	-1.30	-0.000501	± 2.5	PASS
		VN	0	-4.10	-0.001581	± 2.5	PASS
		VN	10	-3.30	-0.001273	± 2.5	PASS
		VN	20	-3.10	-0.001196	± 2.5	PASS
		VN	30	-1.90	-0.000733	± 2.5	PASS

		VN	40	-3.90	-0.001504	± 2.5	PASS
		VN	50	-4.40	-0.001697	± 2.5	PASS
	HCH	VN	-30	-3.30	-0.001231	± 2.5	PASS
		VN	-20	-6.10	-0.002276	± 2.5	PASS
		VN	-10	-5.00	-0.001866	± 2.5	PASS
		VN	0	-3.10	-0.001157	± 2.5	PASS
		VN	10	-4.10	-0.001530	± 2.5	PASS
		VN	20	-4.30	-0.001604	± 2.5	PASS
		VN	30	-6.30	-0.002351	± 2.5	PASS
		VN	40	-3.90	-0.001455	± 2.5	PASS
		VN	50	-3.20	-0.001194	± 2.5	PASS