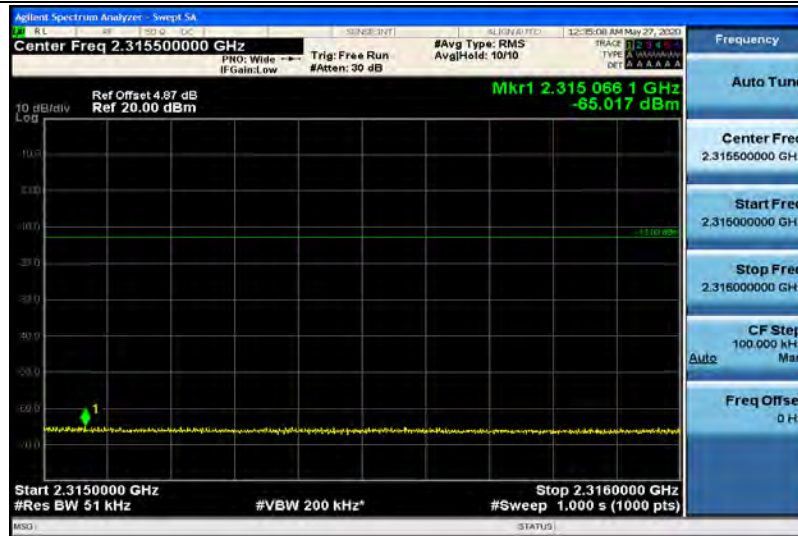




Band40-5MHz-16QAM-38750-1RB#0-Range8:2316~2320MHz



Band40-5MHz-16QAM-38750-1RB#24-Range8:2316~2320MHz



Band40-5MHz-16QAM-38750-1RB#0-Range9:2320~2324MHz



Band40-5MHz-16QAM-38750-1RB#24-Range9:2320~2324MHz



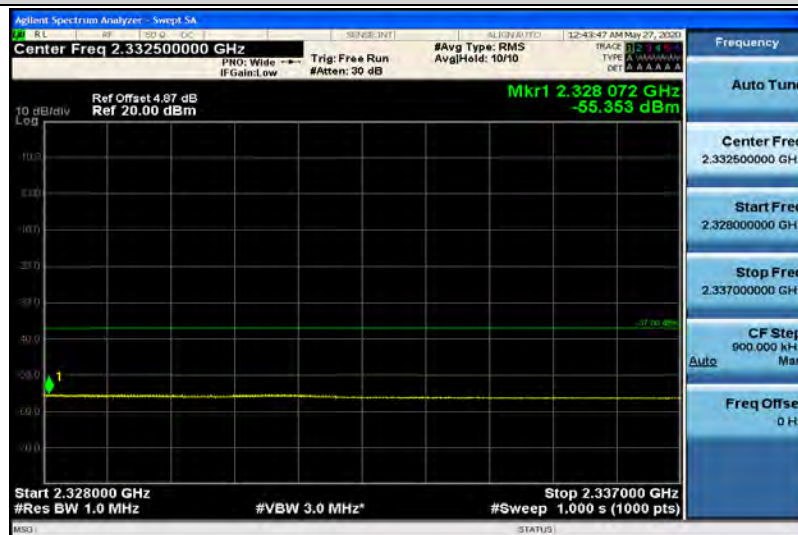
Band40-5MHz-16QAM-38750-1RB#24-Range10:2324~2328MHz



Band40-5MHz-16QAM-38750-1RB#0-Range10:2324~2328MHz



Band40-5MHz-16QAM-38750-1RB#24-Range11:2328~2337MHz



Band40-5MHz-16QAM-38750-1RB#0-Range11:2328~2337MHz



Band40-5MHz-16QAM-38750-1RB#24-Range12:2337~2341MHz



Band40-5MHz-16QAM-38750-1RB#0-Range12:2337~2341MHz



Band40-5MHz-16QAM-38750-1RB#24-Range13:2341~2345MHz



Band40-5MHz-16QAM-38750-1RB#0-Range13:2341~2345MHz



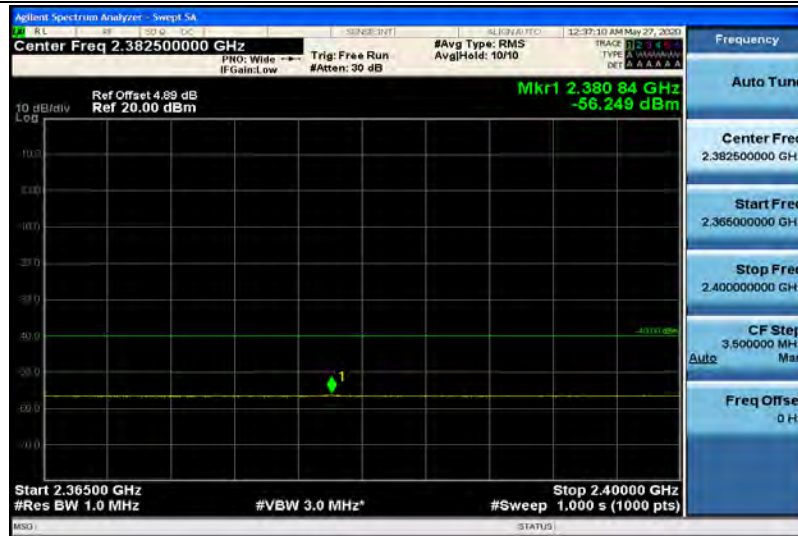
Band40-5MHz-16QAM-38750-1RB#0-Range14:2360~2365MHz



Band40-5MHz-16QAM-38750-1RB#24-Range14:2360~2365MHz



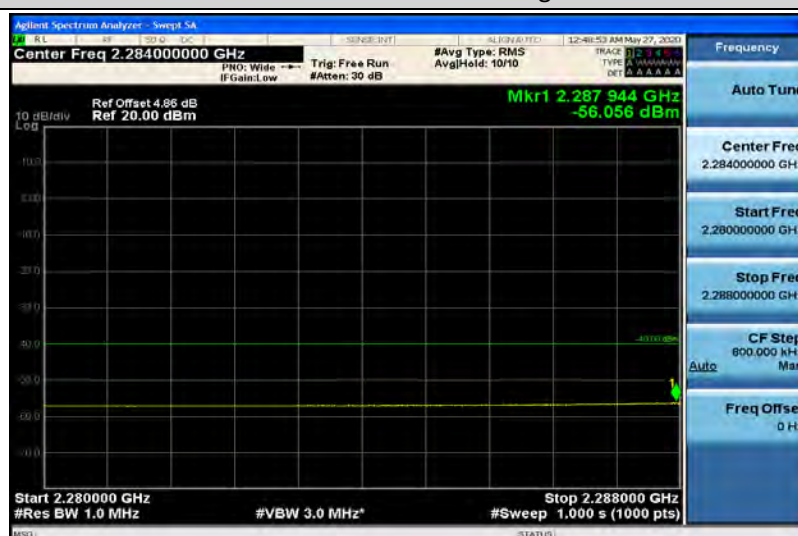
Band40-5MHz-16QAM-38750-1RB#0-Range15:2365~2400MHz



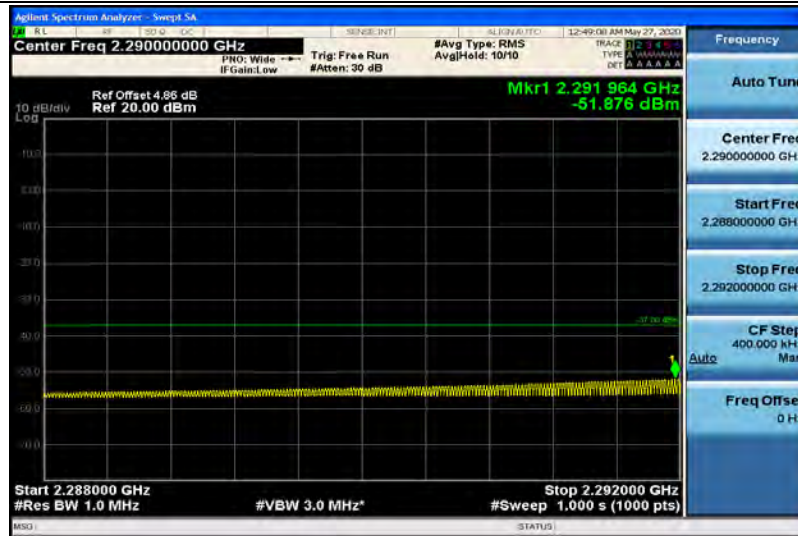
Band40-5MHz-16QAM-38750-1RB#24-Range15:2365~2400MHz



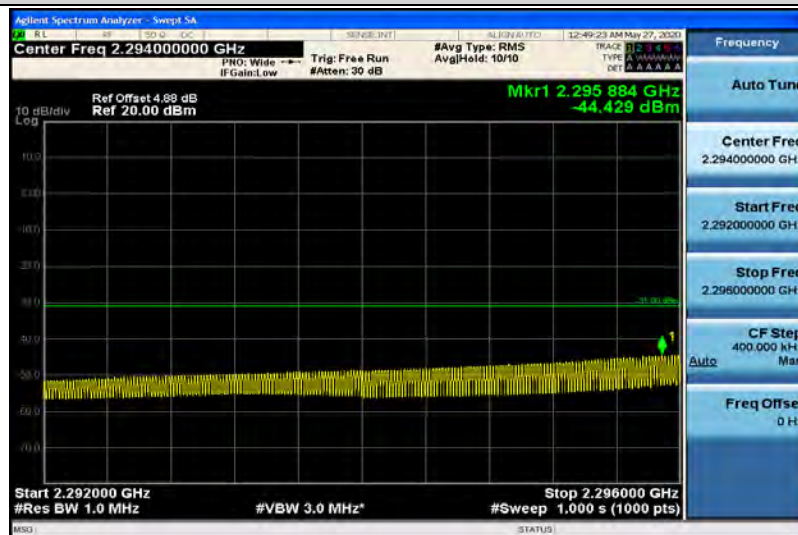
Band40-5MHz-16QAM-38750-25RB#0-Range1:2280~2288MHz



Band40-5MHz-16QAM-38750-25RB#0-Range2:2288~2292MHz



Band40-5MHz-16QAM-38750-25RB#0-Range3:2292~2296MHz



Band40-5MHz-16QAM-38750-25RB#0-Range4:2296~2300MHz



Band40-5MHz-16QAM-38750-25RB#0-Range5:2300~2304MHz



Band40-5MHz-16QAM-38750-25RB#0-Range6:2304~2305MHz



Band40-5MHz-16QAM-38750-25RB#0-Range7:2315~2316MHz



Band40-5MHz-16QAM-38750-25RB#0-Range8:2316~2320MHz



Band40-5MHz-16QAM-38750-25RB#0-Range9:2320~2324MHz



Band40-5MHz-16QAM-38750-25RB#0-Range10:2324~2328MHz



Band40-5MHz-16QAM-38750-25RB#0-Range11:2328~2337MHz



Band40-5MHz-16QAM-38750-25RB#0-Range12:2337~2341MHz



Band40-5MHz-16QAM-38750-25RB#0-Range13:2341~2345MHz



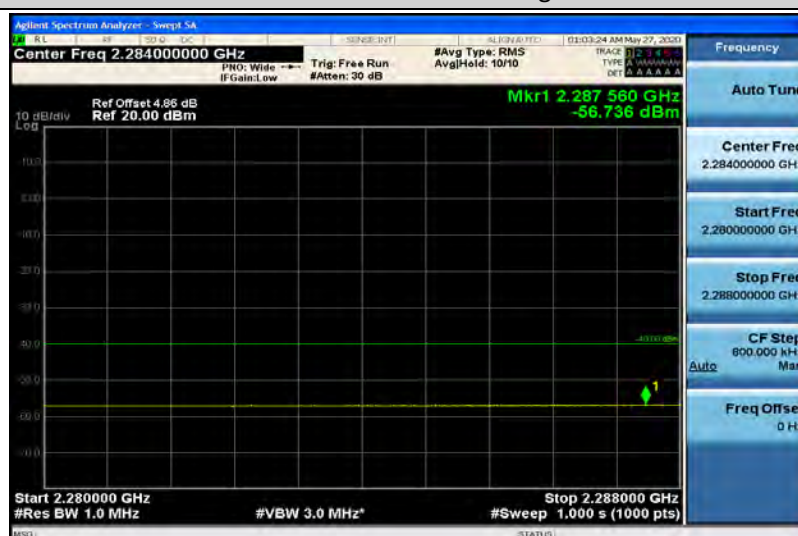
Band40-5MHz-16QAM-38750-25RB#0-Range14:2360~2365MHz



Band40-5MHz-16QAM-38750-25RB#0-Range15:2365~2400MHz



Band40-5MHz-16QAM-38775-1RB#24-Range1:2280~2288MHz



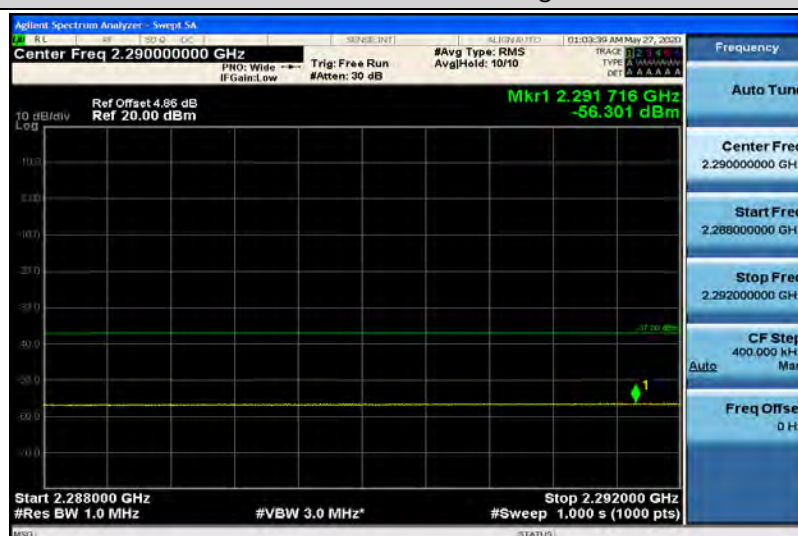
Band40-5MHz-16QAM-38775-1RB#0-Range1:2280~2288MHz



Band40-5MHz-16QAM-38775-1RB#0-Range2:2288~2292MHz



Band40-5MHz-16QAM-38775-1RB#24-Range2:2288~2292MHz



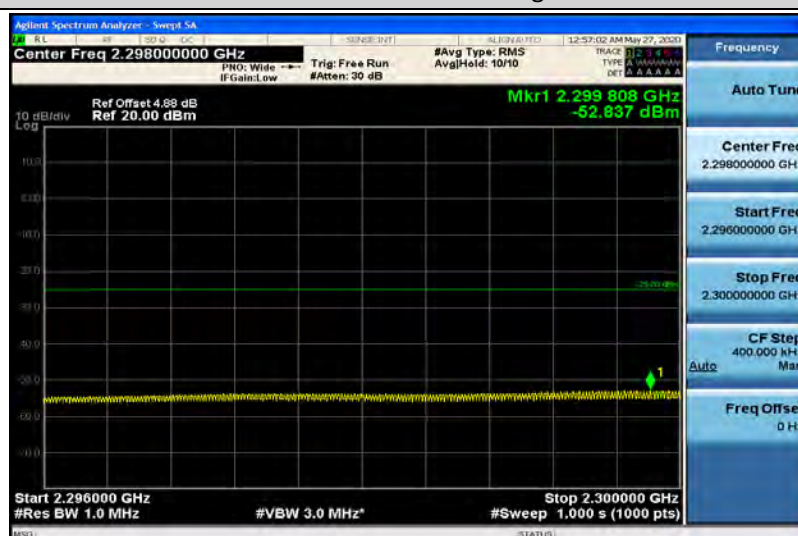
Band40-5MHz-16QAM-38775-1RB#0-Range3:2292~2296MHz



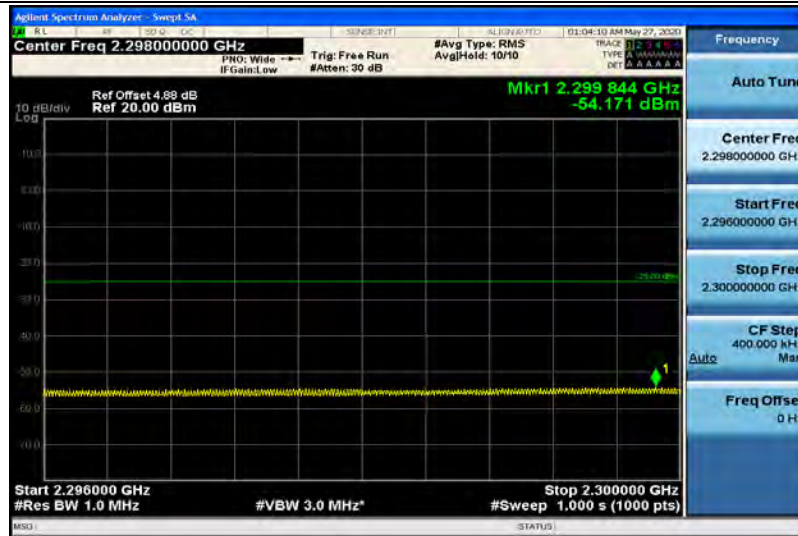
Band40-5MHz-16QAM-38775-1RB#24-Range3:2292~2296MHz



Band40-5MHz-16QAM-38775-1RB#0-Range4:2296~2300MHz



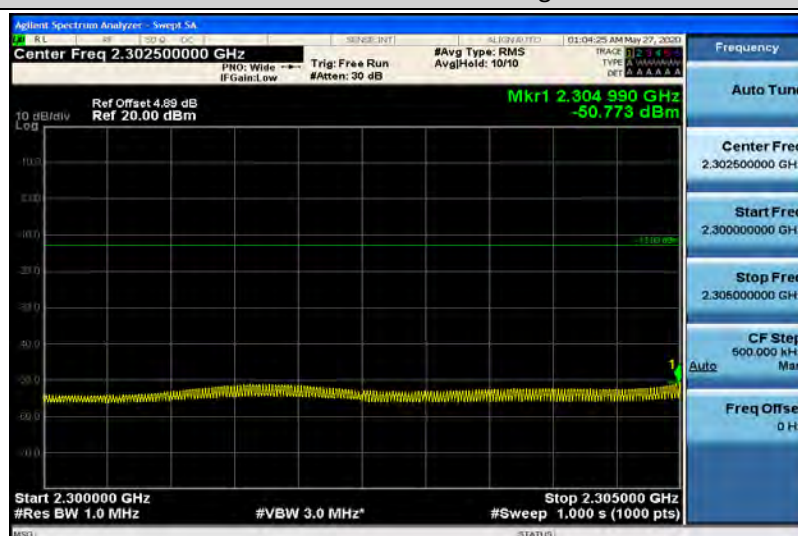
Band40-5MHz-16QAM-38775-1RB#24-Range4:2296~2300MHz



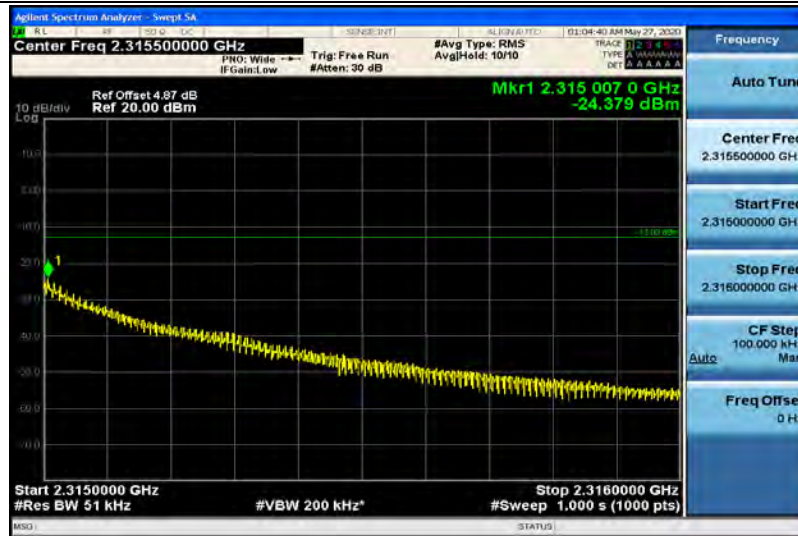
Band40-5MHz-16QAM-38775-1RB#0-Range5:2300~2305MHz



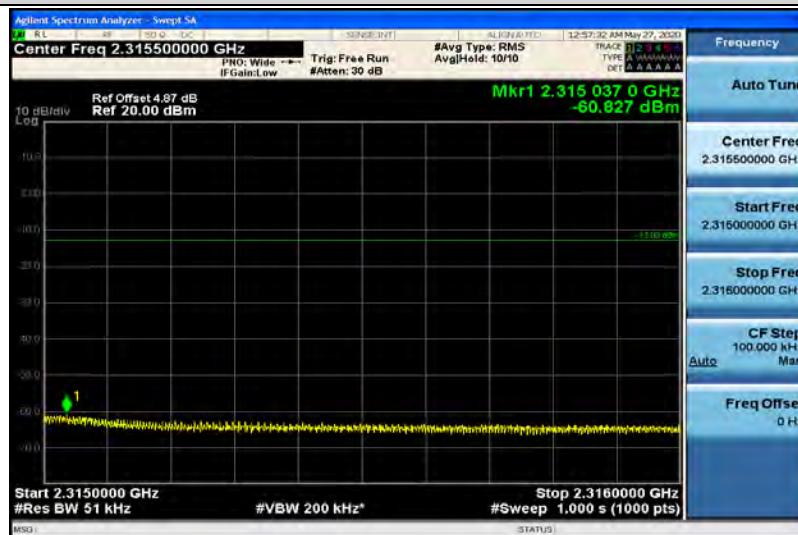
Band40-5MHz-16QAM-38775-1RB#24-Range5:2300~2305MHz



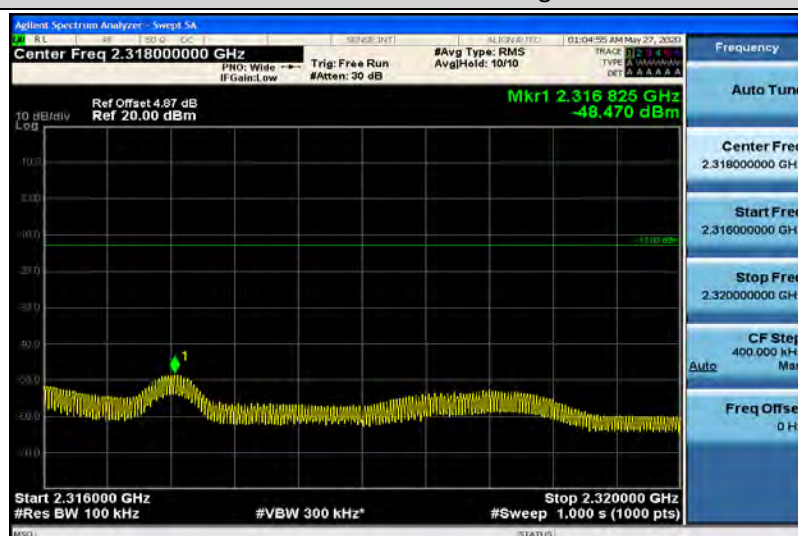
Band40-5MHz-16QAM-38775-1RB#24-Range6:2315~2316MHz



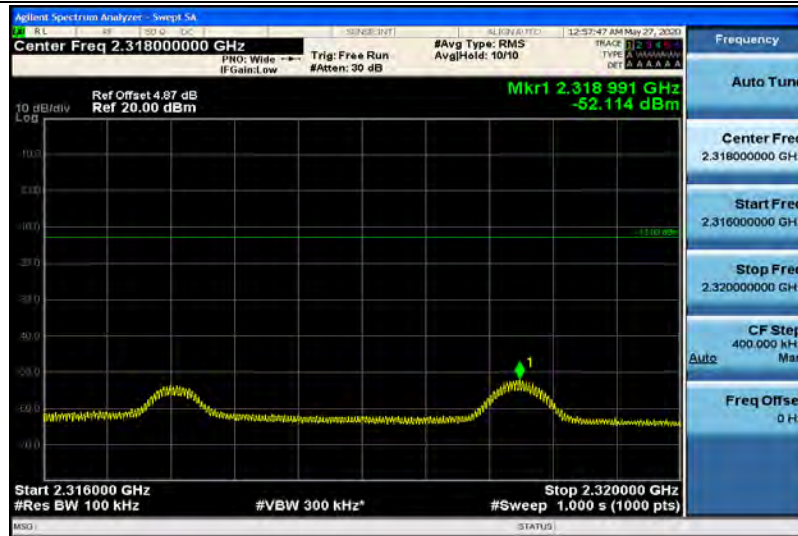
Band40-5MHz-16QAM-38775-1RB#0-Range6:2315~2316MHz



Band40-5MHz-16QAM-38775-1RB#24-Range7:2316~2320MHz



Band40-5MHz-16QAM-38775-1RB#0-Range7:2316~2320MHz



Band40-5MHz-16QAM-38775-1RB#24-Range8:2320~2324MHz



Band40-5MHz-16QAM-38775-1RB#0-Range8:2320~2324MHz



Band40-5MHz-16QAM-38775-1RB#24-Range9:2324~2328MHz



Band40-5MHz-16QAM-38775-1RB#0-Range9:2324~2328MHz



Band40-5MHz-16QAM-38775-1RB#0-Range10:2328~2337MHz



Band40-5MHz-16QAM-38775-1RB#24-Range10:2328~2337MHz



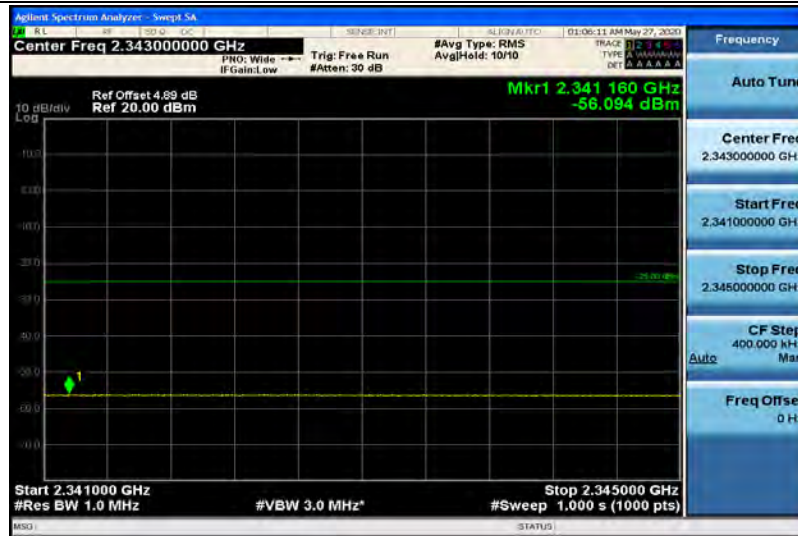
Band40-5MHz-16QAM-38775-1RB#24-Range11:2337~2341MHz



Band40-5MHz-16QAM-38775-1RB#0-Range11:2337~2341MHz



Band40-5MHz-16QAM-38775-1RB#24-Range12:2341~2345MHz



Band40-5MHz-16QAM-38775-1RB#0-Range12:2341~2345MHz



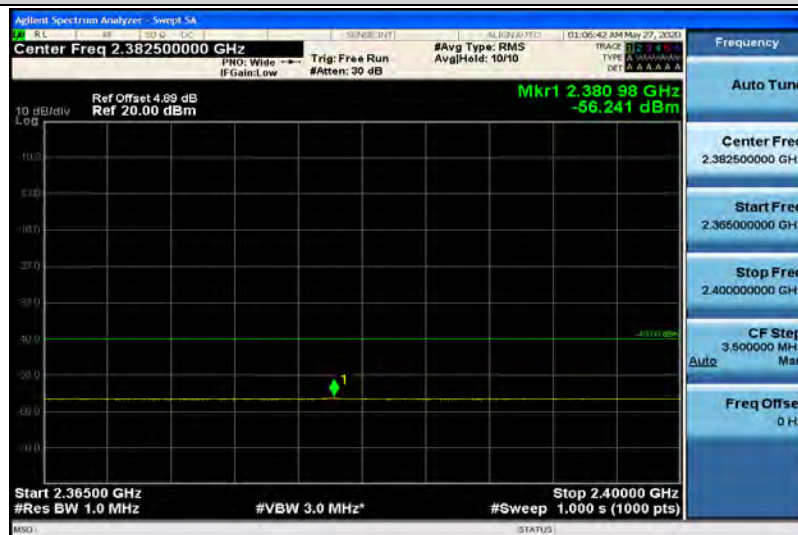
Band40-5MHz-16QAM-38775-1RB#24-Range13:2360~2365MHz



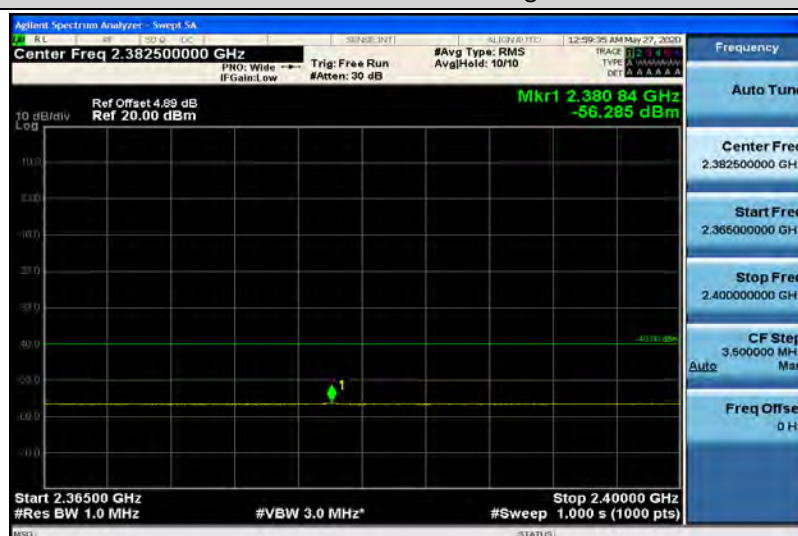
Band40-5MHz-16QAM-38775-1RB#0-Range13:2360~2365MHz



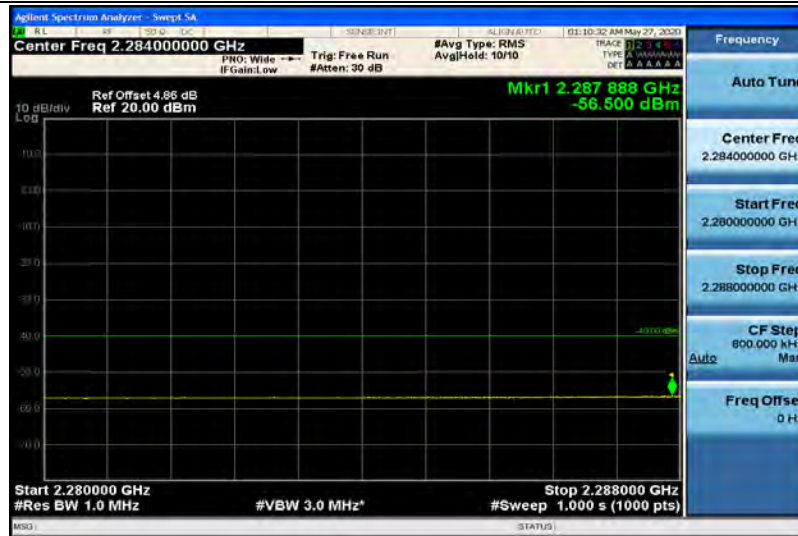
Band40-5MHz-16QAM-38775-1RB#24-Range14:2365~2400MHz



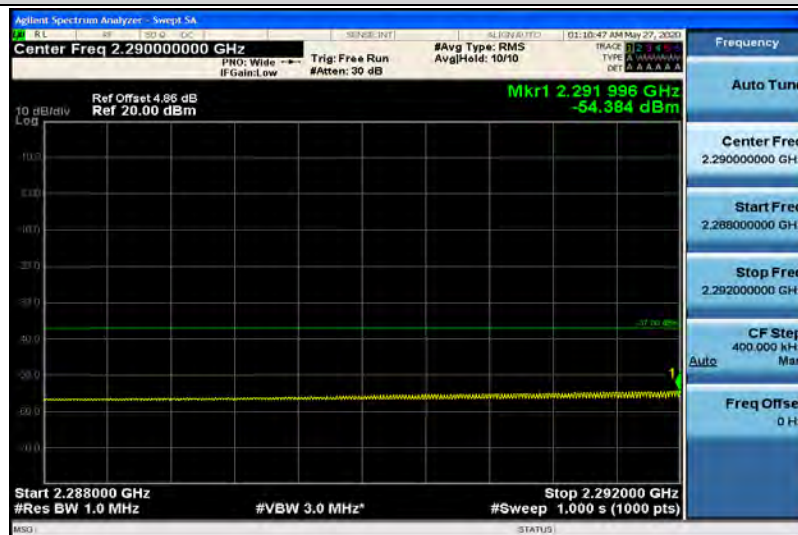
Band40-5MHz-16QAM-38775-1RB#0-Range14:2365~2400MHz



Band40-5MHz-16QAM-38775-25RB#0-Range1:2280~2288MHz



Band40-5MHz-16QAM-38775-25RB#0-Range2:2288~2292MHz



Band40-5MHz-16QAM-38775-25RB#0-Range3:2292~2296MHz



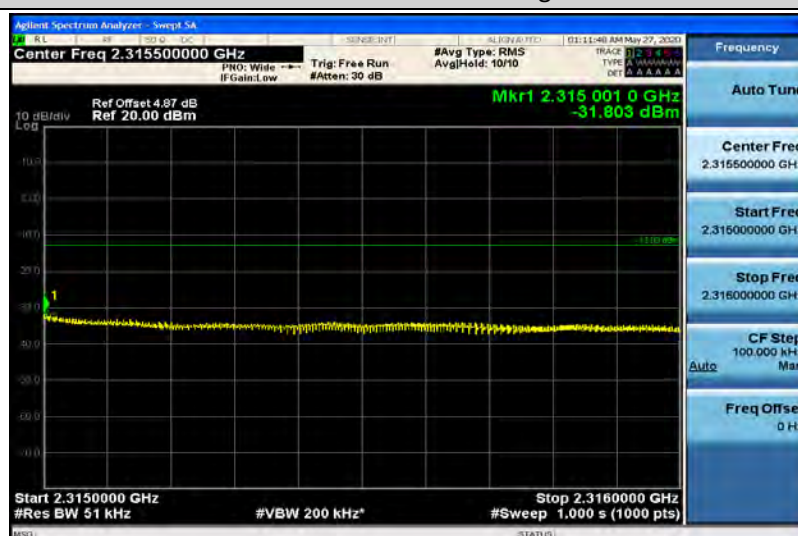
Band40-5MHz-16QAM-38775-25RB#0-Range4:2296~2300MHz



Band40-5MHz-16QAM-38775-25RB#0-Range5:2300~2305MHz



Band40-5MHz-16QAM-38775-25RB#0-Range6:2315~2316MHz



Band40-5MHz-16QAM-38775-25RB#0-Range7:2316~2320MHz



Band40-5MHz-16QAM-38775-25RB#0-Range8:2320~2324MHz



Band40-5MHz-16QAM-38775-25RB#0-Range9:2324~2328MHz



Band40-5MHz-16QAM-38775-25RB#0-Range10:2328~2337MHz



Band40-5MHz-16QAM-38775-25RB#0-Range11:2337~2341MHz



Band40-5MHz-16QAM-38775-25RB#0-Range12:2341~2345MHz



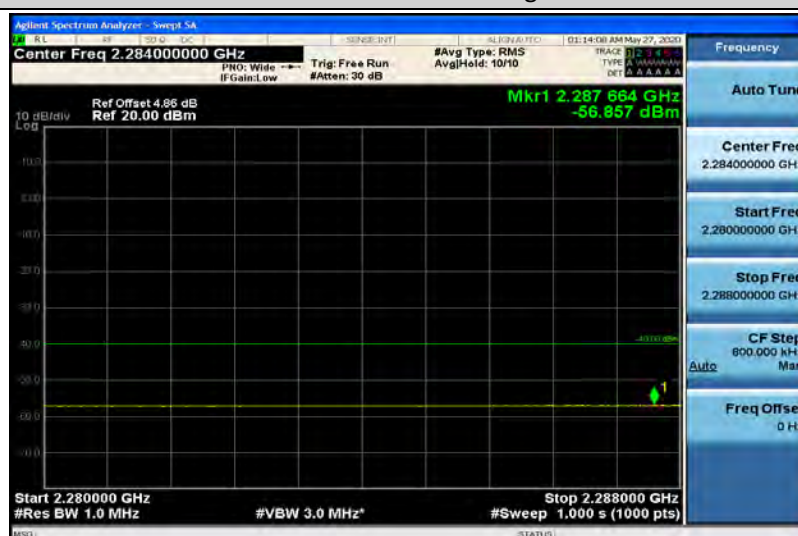
Band40-5MHz-16QAM-38775-25RB#0-Range13:2360~2365MHz



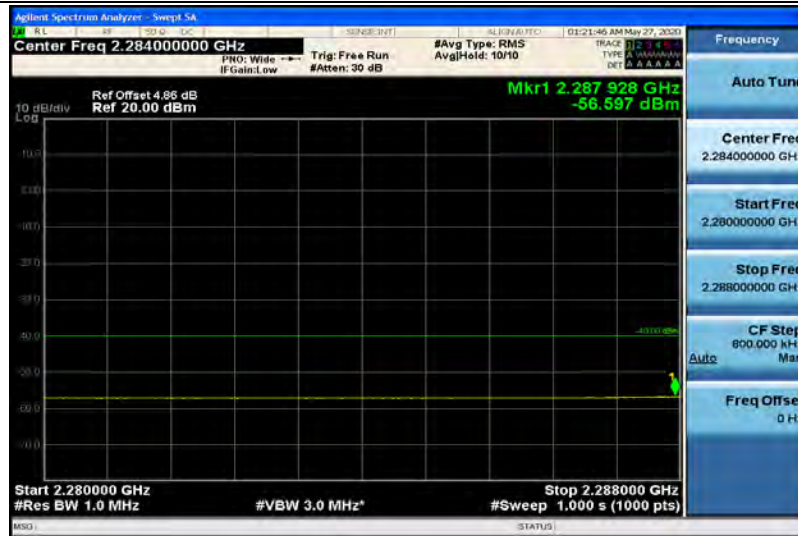
Band40-5MHz-16QAM-38775-25RB#0-Range14:2365~2400MHz



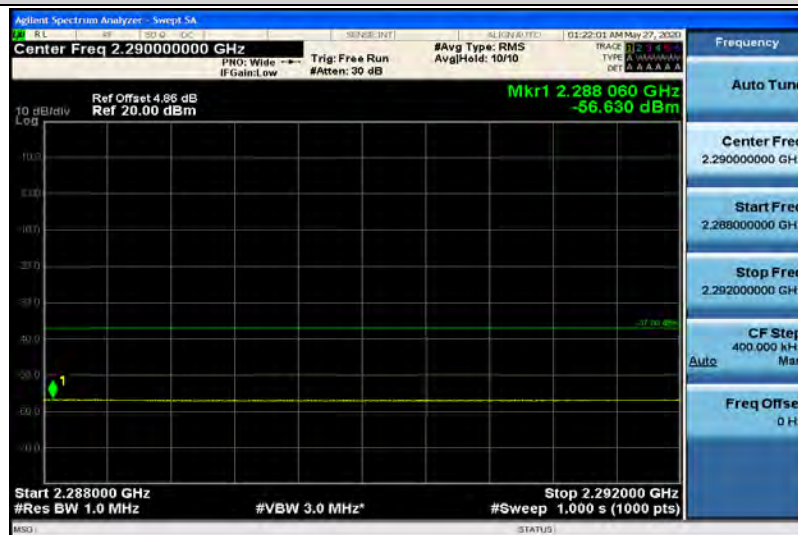
Band40-10MHz-QPSK-38750-1RB#0-Range1:2280~2288MHz



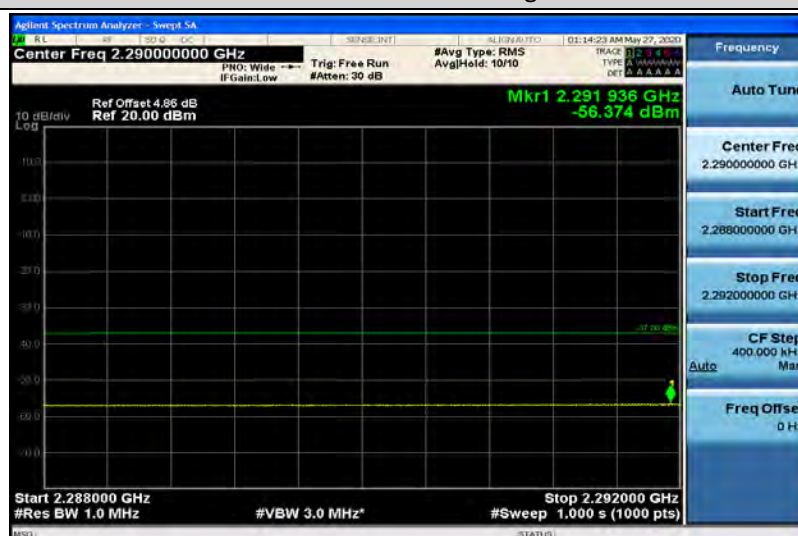
Band40-10MHz-QPSK-38750-1RB#49-Range1:2280~2288MHz



Band40-10MHz-QPSK-38750-1RB#49-Range2:2288~2292MHz



Band40-10MHz-QPSK-38750-1RB#0-Range2:2288~2292MHz



Band40-10MHz-QPSK-38750-1RB#49-Range3:2292~2296MHz



Band40-10MHz-QPSK-38750-1RB#0-Range3:2292~2296MHz



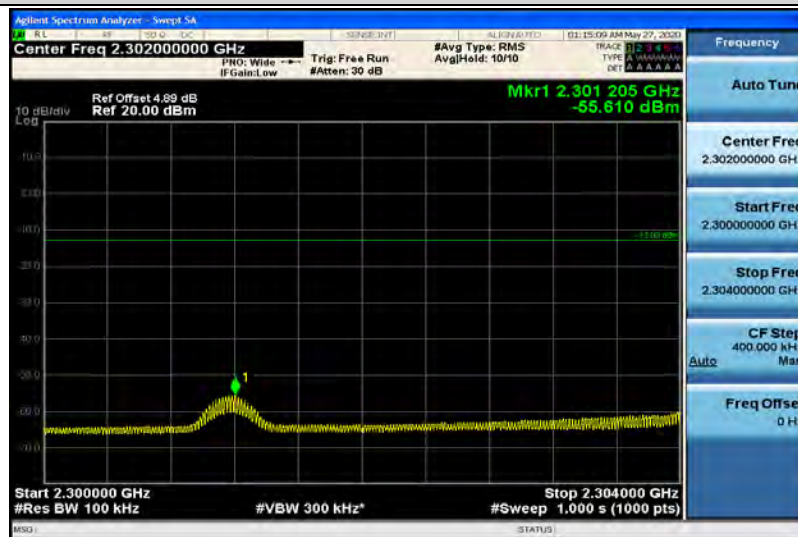
Band40-10MHz-QPSK-38750-1RB#0-Range4:2296~2300MHz



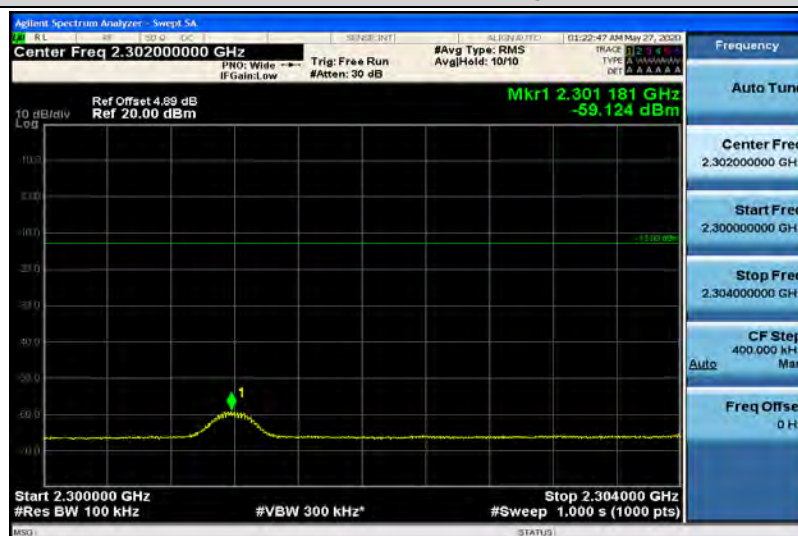
Band40-10MHz-QPSK-38750-1RB#49-Range4:2296~2300MHz



Band40-10MHz-QPSK-38750-1RB#0-Range5:2300~2304MHz



Band40-10MHz-QPSK-38750-1RB#49-Range5:2300~2304MHz



Band40-10MHz-QPSK-38750-1RB#0-Range6:2304~2305MHz



Band40-10MHz-QPSK-38750-1RB#49-Range6:2304~2305MHz



Band40-10MHz-QPSK-38750-1RB#0-Range7:2315~2316MHz



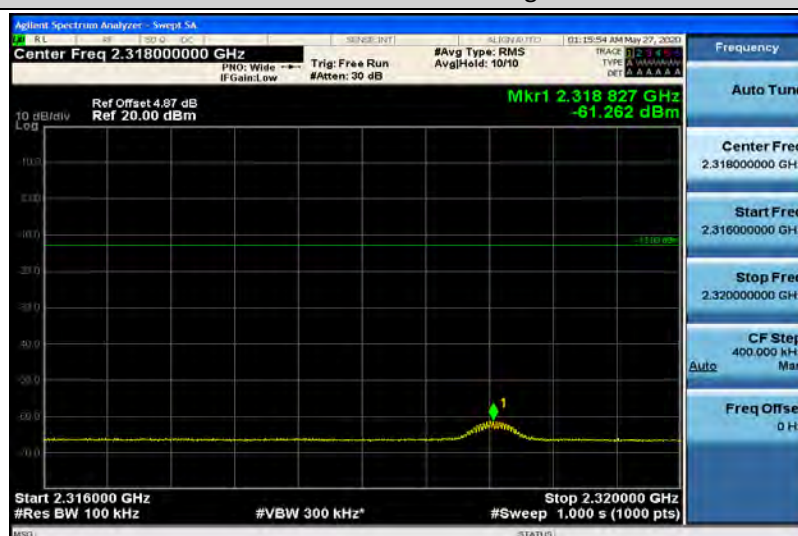
Band40-10MHz-QPSK-38750-1RB#49-Range7:2315~2316MHz



Band40-10MHz-QPSK-38750-1RB#49-Range8:2316~2320MHz



Band40-10MHz-QPSK-38750-1RB#0-Range8:2316~2320MHz



Band40-10MHz-QPSK-38750-1RB#49-Range9:2320~2324MHz



Band40-10MHz-QPSK-38750-1RB#0-Range9:2320~2324MHz



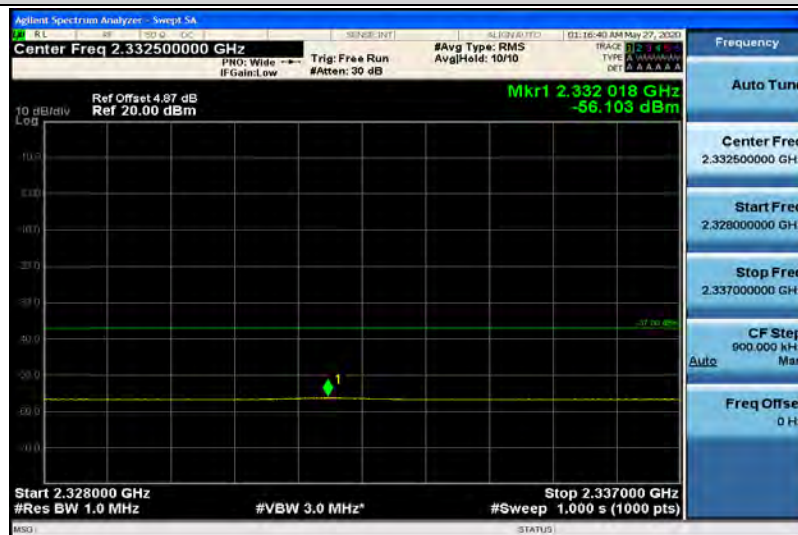
Band40-10MHz-QPSK-38750-1RB#0-Range10:2324~2328MHz



Band40-10MHz-QPSK-38750-1RB#49-Range10:2324~2328MHz



Band40-10MHz-QPSK-38750-1RB#0-Range11:2328~2337MHz



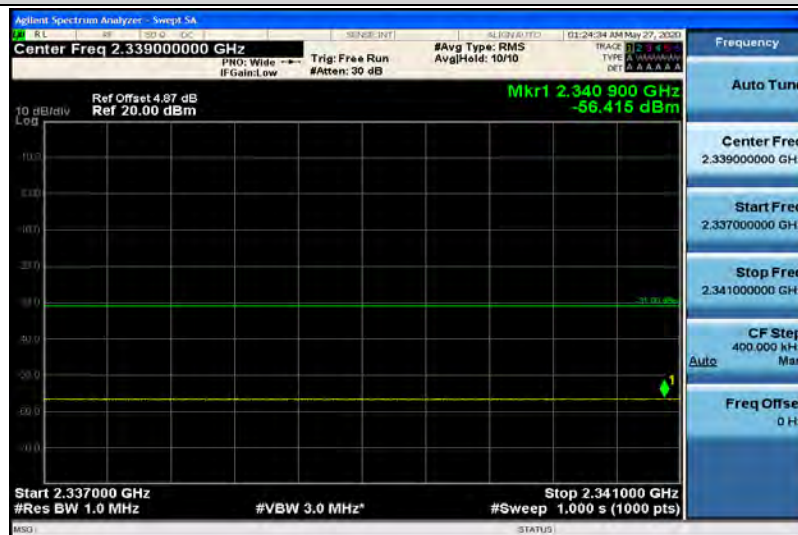
Band40-10MHz-QPSK-38750-1RB#49-Range11:2328~2337MHz



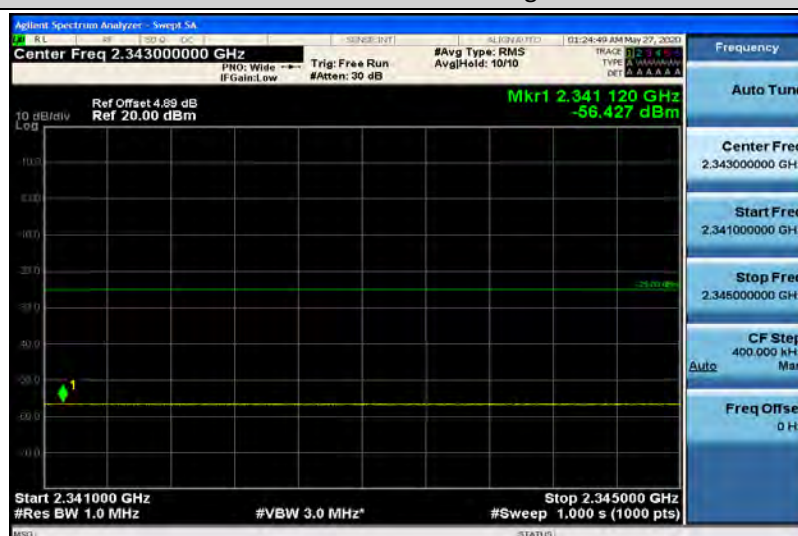
Band40-10MHz-QPSK-38750-1RB#0-Range12:2337~2341MHz



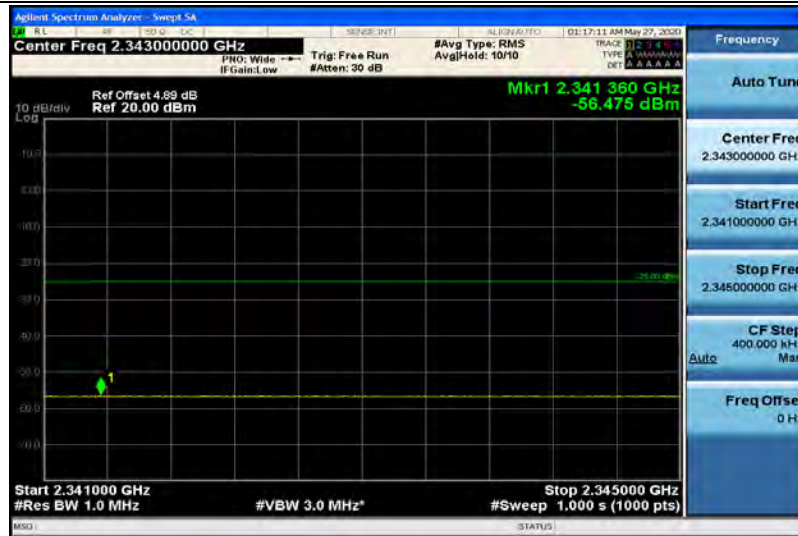
Band40-10MHz-QPSK-38750-1RB#49-Range12:2337~2341MHz



Band40-10MHz-QPSK-38750-1RB#49-Range13:2341~2345MHz



Band40-10MHz-QPSK-38750-1RB#0-Range13:2341~2345MHz



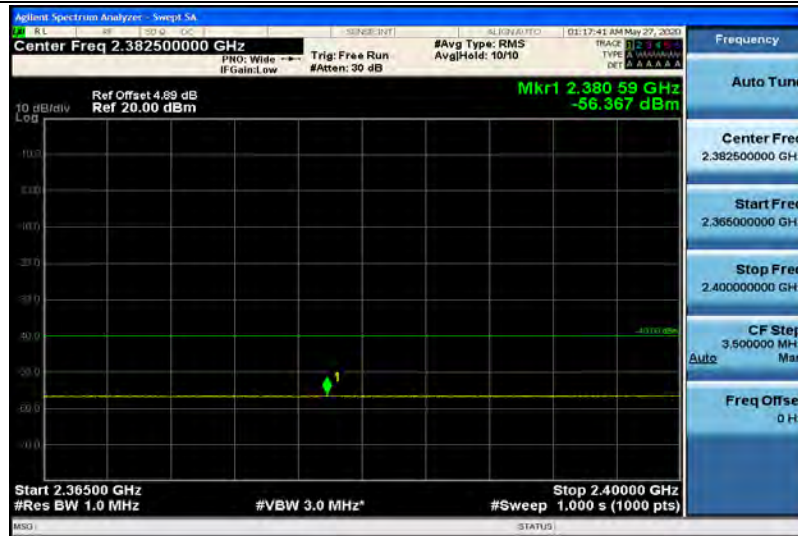
Band40-10MHz-QPSK-38750-1RB#0-Range14:2360~2365MHz



Band40-10MHz-QPSK-38750-1RB#49-Range14:2360~2365MHz



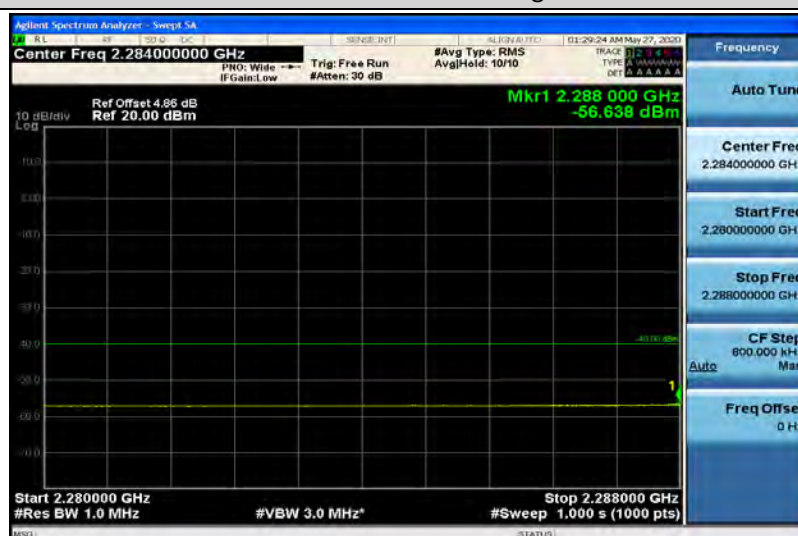
Band40-10MHz-QPSK-38750-1RB#0-Range15:2365~2400MHz



Band40-10MHz-QPSK-38750-1RB#49-Range15:2365~2400MHz



Band40-10MHz-QPSK-38750-50RB#0-Range1:2280~2288MHz



Band40-10MHz-QPSK-38750-50RB#0-Range2:2288~2292MHz



Band40-10MHz-QPSK-38750-50RB#0-Range3:2292~2296MHz



Band40-10MHz-QPSK-38750-50RB#0-Range4:2296~2300MHz



Band40-10MHz-QPSK-38750-50RB#0-Range5:2300~2304MHz



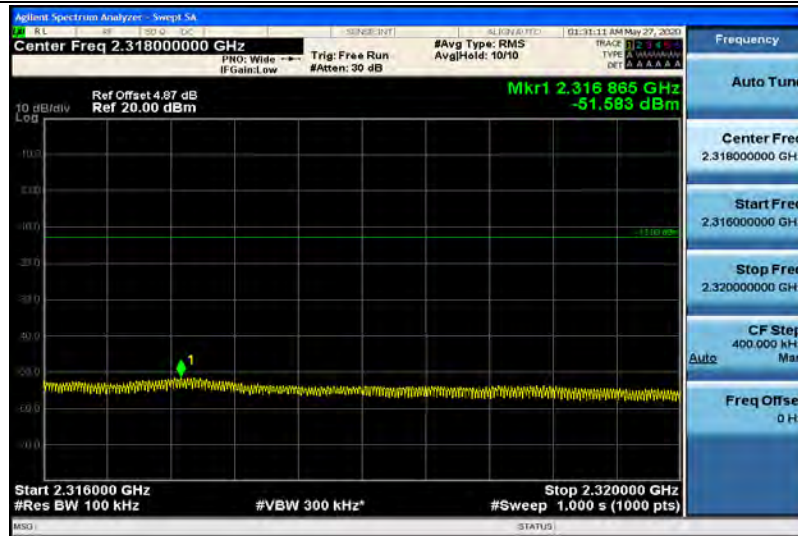
Band40-10MHz-QPSK-38750-50RB#0-Range6:2304~2305MHz



Band40-10MHz-QPSK-38750-50RB#0-Range7:2315~2316MHz



Band40-10MHz-QPSK-38750-50RB#0-Range8:2316~2320MHz



Band40-10MHz-QPSK-38750-50RB#0-Range9:2320~2324MHz



Band40-10MHz-QPSK-38750-50RB#0-Range10:2324~2328MHz



Band40-10MHz-QPSK-38750-50RB#0-Range11:2328~2337MHz



Band40-10MHz-QPSK-38750-50RB#0-Range12:2337~2341MHz



Band40-10MHz-QPSK-38750-50RB#0-Range13:2341~2345MHz



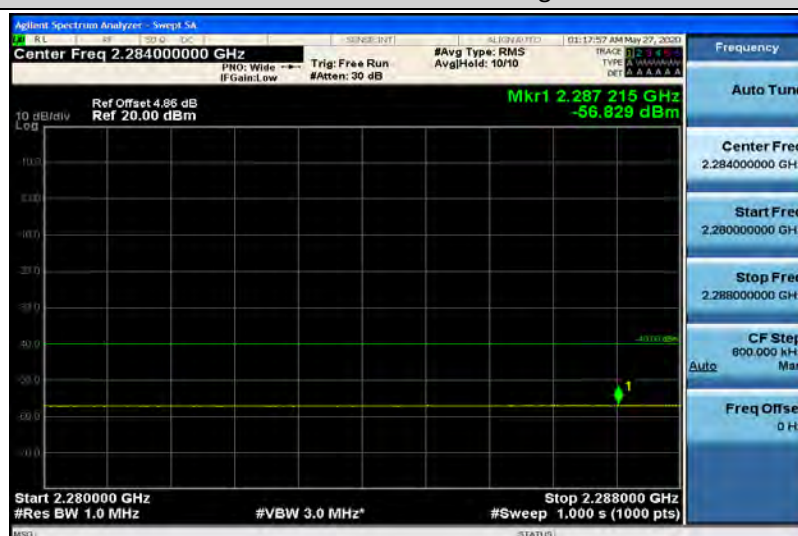
Band40-10MHz-QPSK-38750-50RB#0-Range14:2360~2365MHz



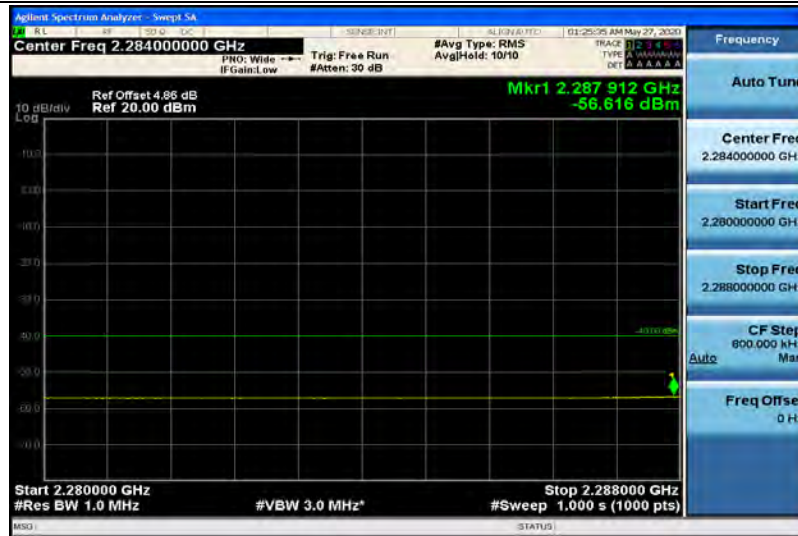
Band40-10MHz-QPSK-38750-50RB#0-Range15:2365~2400MHz



Band40-10MHz-16QAM-38750-1RB#0-Range1:2280~2288MHz



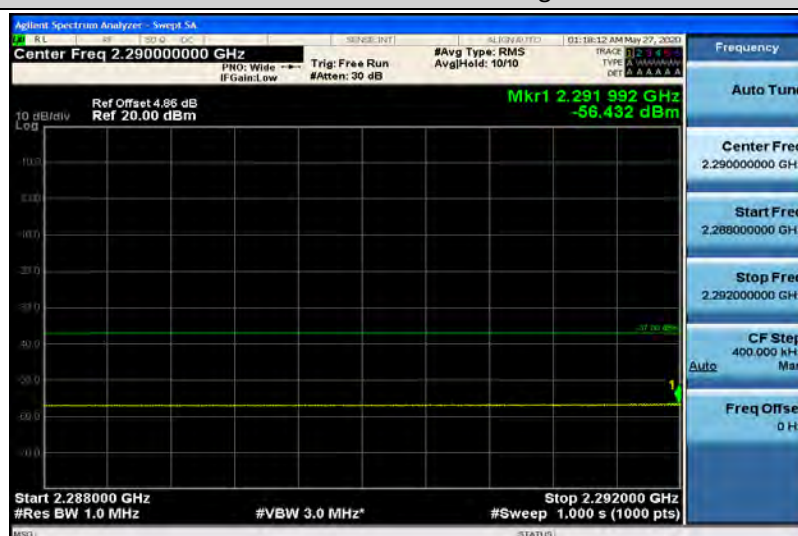
Band40-10MHz-16QAM-38750-1RB#49-Range1:2280~2288MHz



Band40-10MHz-16QAM-38750-1RB#49-Range2:2288~2292MHz



Band40-10MHz-16QAM-38750-1RB#0-Range2:2288~2292MHz



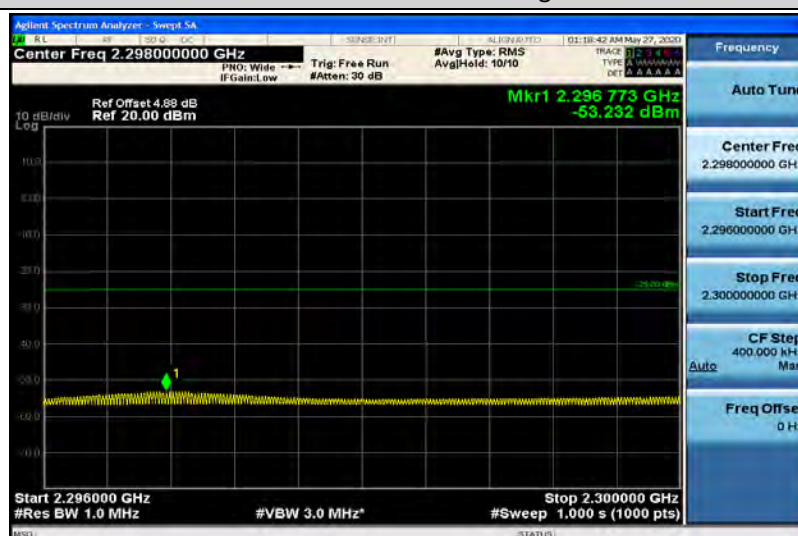
Band40-10MHz-16QAM-38750-1RB#0-Range3:2292~2296MHz



Band40-10MHz-16QAM-38750-1RB#49-Range3:2292~2296MHz



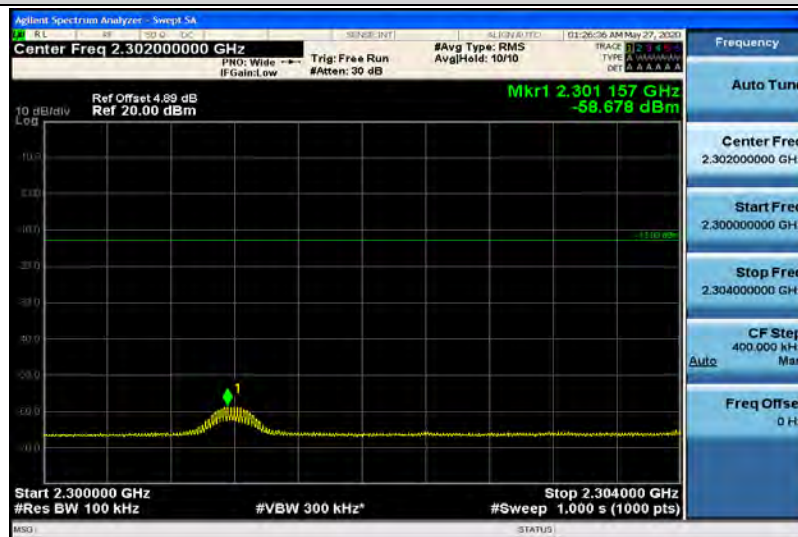
Band40-10MHz-16QAM-38750-1RB#0-Range4:2296~2300MHz



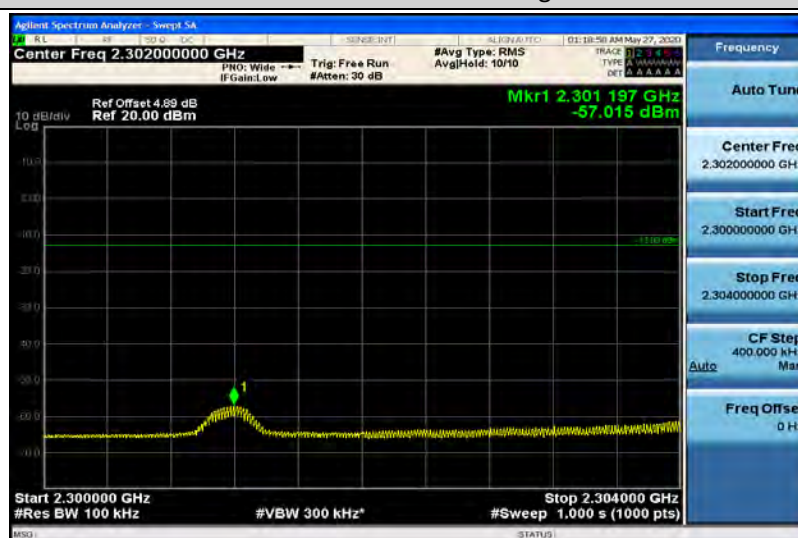
Band40-10MHz-16QAM-38750-1RB#49-Range4:2296~2300MHz



Band40-10MHz-16QAM-38750-1RB#49-Range5:2300~2304MHz



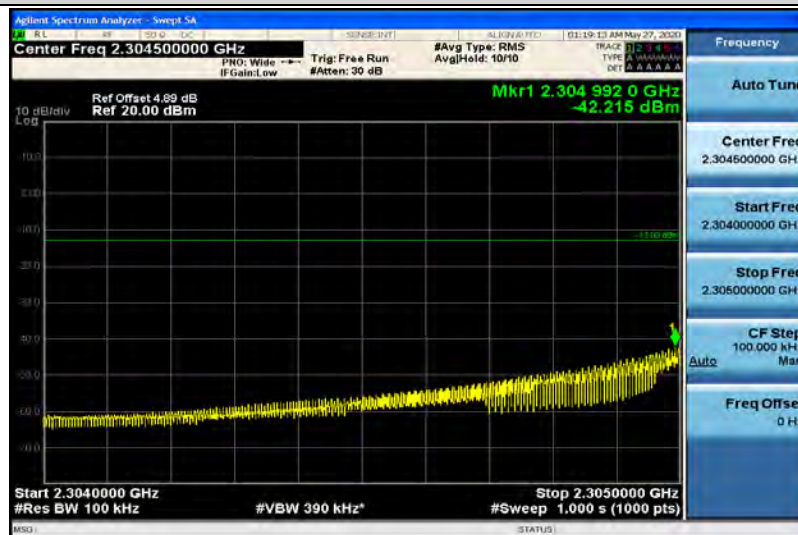
Band40-10MHz-16QAM-38750-1RB#0-Range5:2300~2304MHz



Band40-10MHz-16QAM-38750-1RB#49-Range6:2304~2305MHz



Band40-10MHz-16QAM-38750-1RB#0-Range6:2304~2305MHz



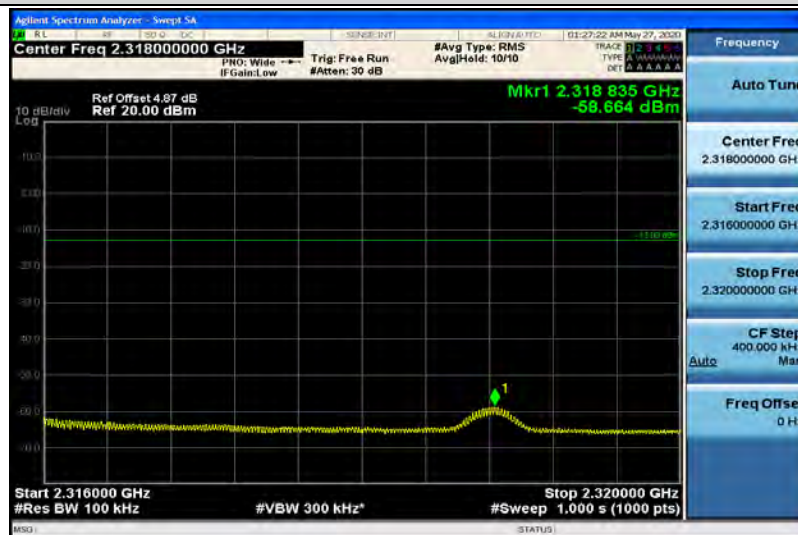
Band40-10MHz-16QAM-38750-1RB#0-Range7:2315~2316MHz



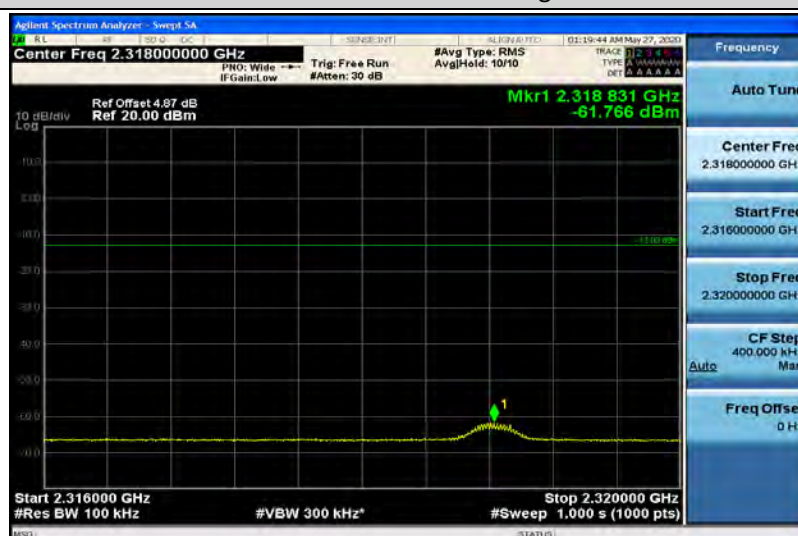
Band40-10MHz-16QAM-38750-1RB#49-Range7:2315~2316MHz



Band40-10MHz-16QAM-38750-1RB#49-Range8:2316~2320MHz



Band40-10MHz-16QAM-38750-1RB#0-Range8:2316~2320MHz



Band40-10MHz-16QAM-38750-1RB#49-Range9:2320~2324MHz



Band40-10MHz-16QAM-38750-1RB#0-Range9:2320~2324MHz



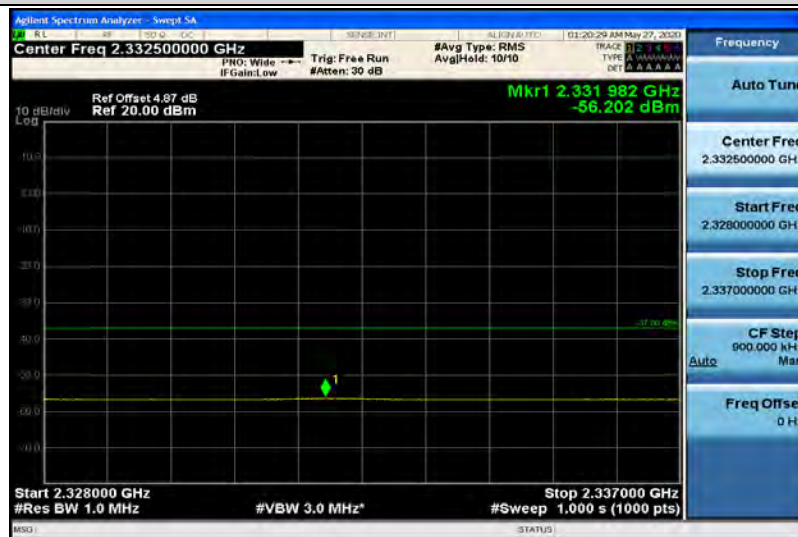
Band40-10MHz-16QAM-38750-1RB#0-Range10:2324~2328MHz



Band40-10MHz-16QAM-38750-1RB#49-Range10:2324~2328MHz



Band40-10MHz-16QAM-38750-1RB#0-Range11:2328~2337MHz



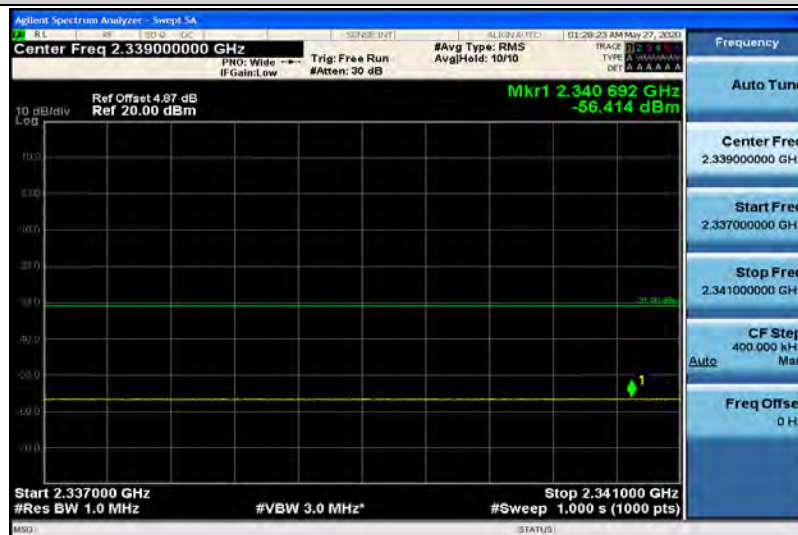
Band40-10MHz-16QAM-38750-1RB#49-Range11:2328~2337MHz



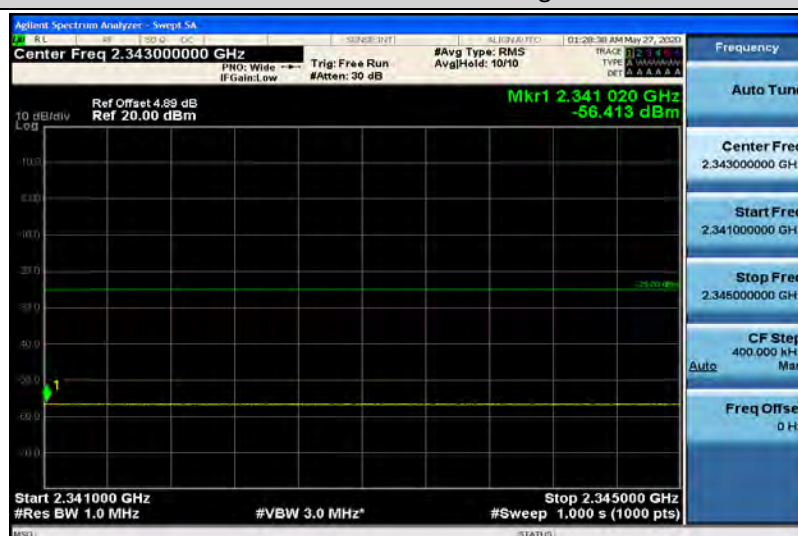
Band40-10MHz-16QAM-38750-1RB#0-Range12:2337~2341MHz



Band40-10MHz-16QAM-38750-1RB#49-Range12:2337~2341MHz



Band40-10MHz-16QAM-38750-1RB#49-Range13:2341~2345MHz



Band40-10MHz-16QAM-38750-1RB#0-Range13:2341~2345MHz



Band40-10MHz-16QAM-38750-1RB#49-Range14:2360~2365MHz



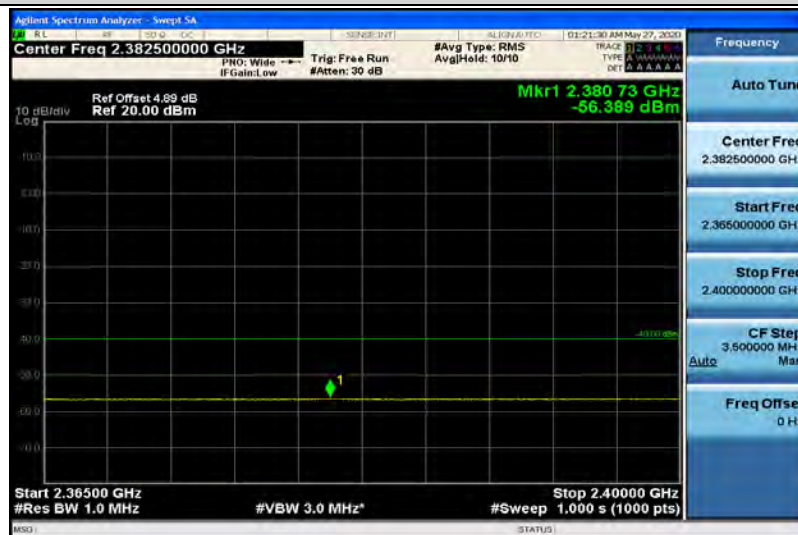
Band40-10MHz-16QAM-38750-1RB#0-Range14:2360~2365MHz



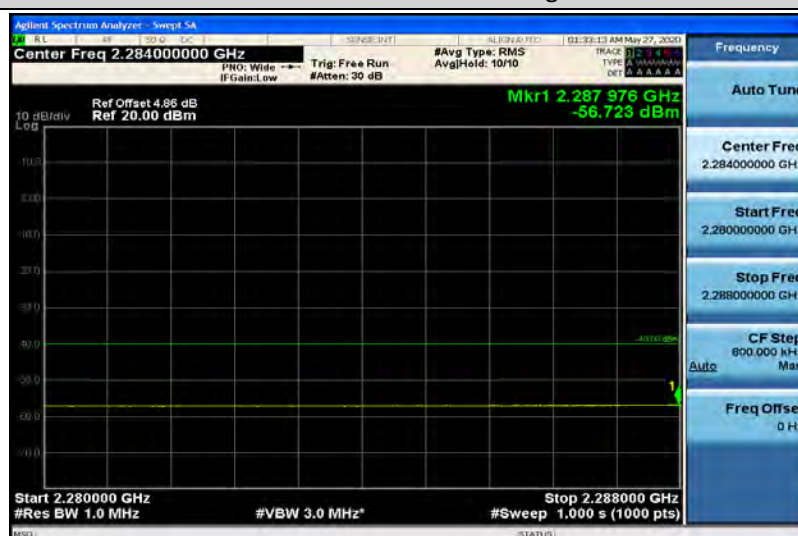
Band40-10MHz-16QAM-38750-1RB#49-Range15:2365~2400MHz



Band40-10MHz-16QAM-38750-1RB#0-Range15:2365~2400MHz



Band40-10MHz-16QAM-38750-50RB#0-Range1:2280~2288MHz



Band40-10MHz-16QAM-38750-50RB#0-Range2:2288~2292MHz



Band40-10MHz-16QAM-38750-50RB#0-Range3:2292~2296MHz



Band40-10MHz-16QAM-38750-50RB#0-Range4:2296~2300MHz



Band40-10MHz-16QAM-38750-50RB#0-Range5:2300~2304MHz



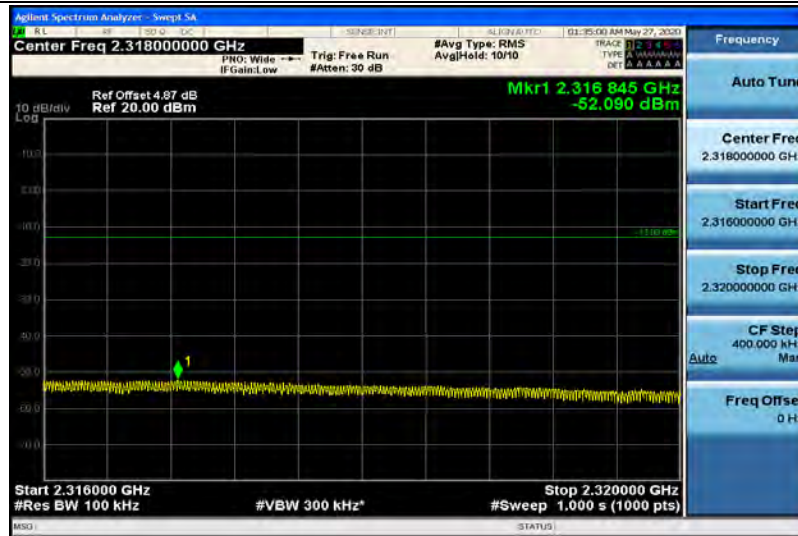
Band40-10MHz-16QAM-38750-50RB#0-Range6:2304~2305MHz



Band40-10MHz-16QAM-38750-50RB#0-Range7:2315~2316MHz



Band40-10MHz-16QAM-38750-50RB#0-Range8:2316~2320MHz



Band40-10MHz-16QAM-38750-50RB#0-Range9:2320~2324MHz



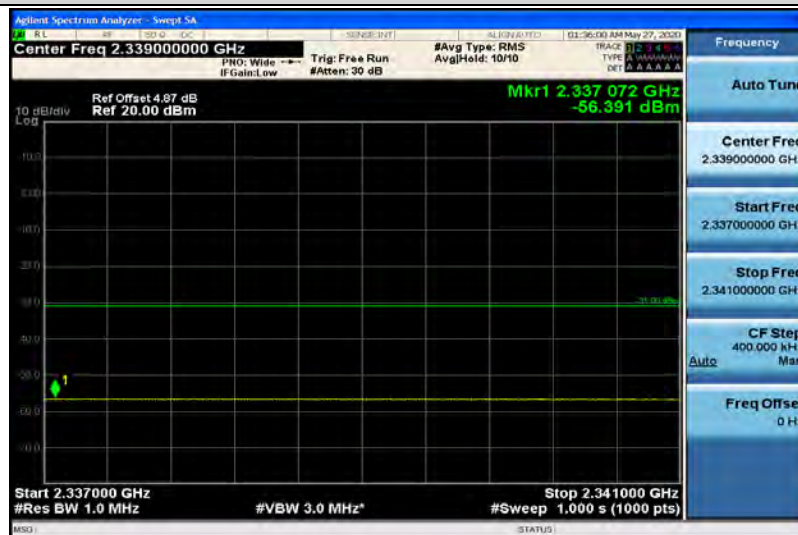
Band40-10MHz-16QAM-38750-50RB#0-Range10:2324~2328MHz



Band40-10MHz-16QAM-38750-50RB#0-Range11:2328~2337MHz



Band40-10MHz-16QAM-38750-50RB#0-Range12:2337~2341MHz



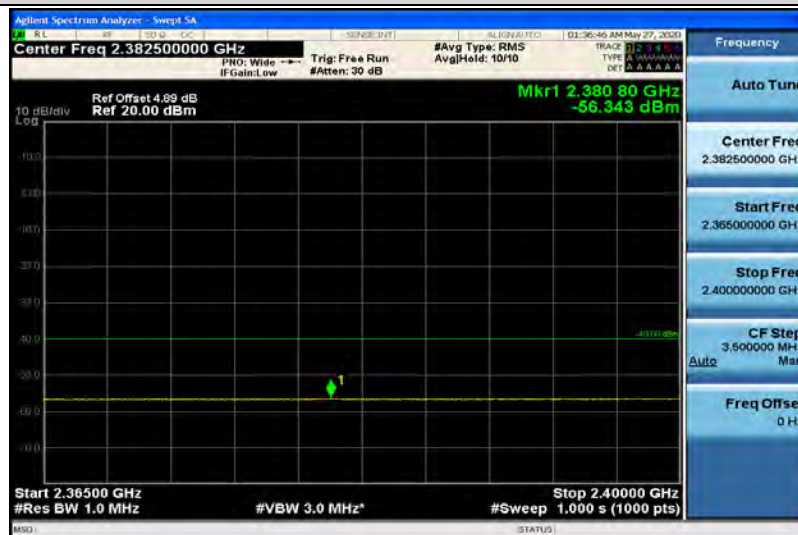
Band40-10MHz-16QAM-38750-50RB#0-Range13:2341~2345MHz



Band40-10MHz-16QAM-38750-50RB#0-Range14:2360~2365MHz



Band40-10MHz-16QAM-38750-50RB#0-Range15:2365~2400MHz



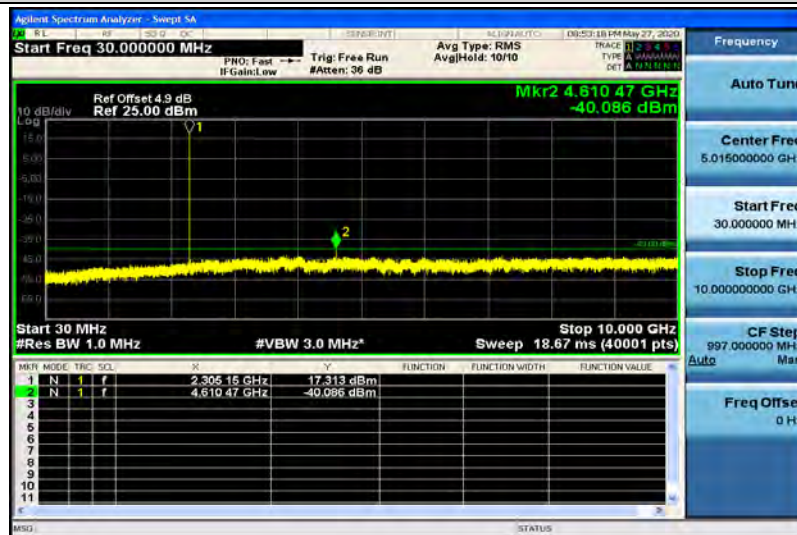


Appendix E: Conducted Spurious Emission

Test Graphs

Channel Bandwidth : 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0-1

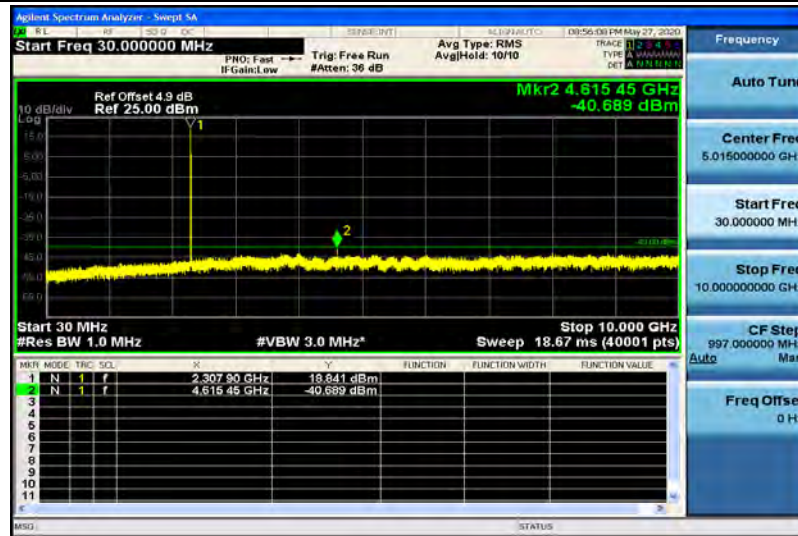


(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0-2

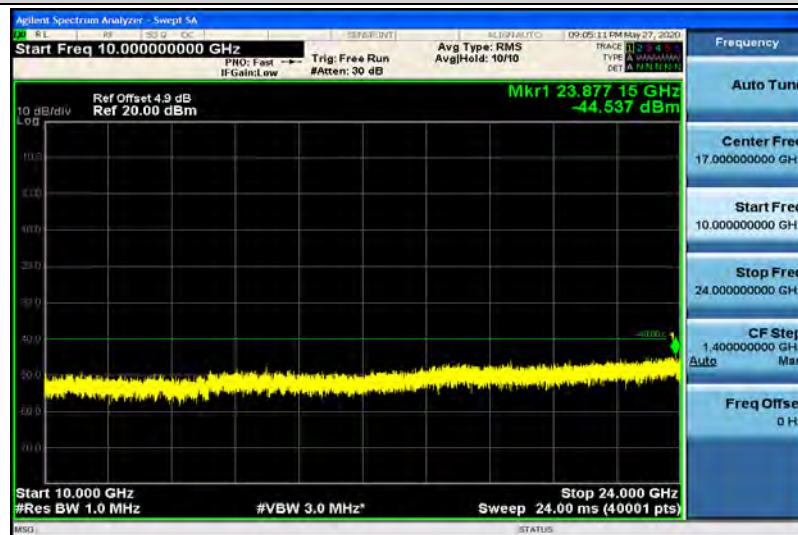




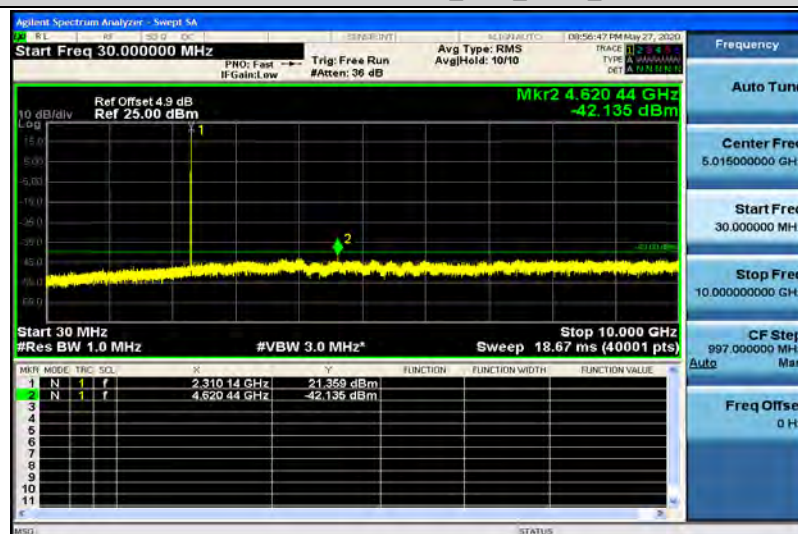
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0-1



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0-2



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0-1





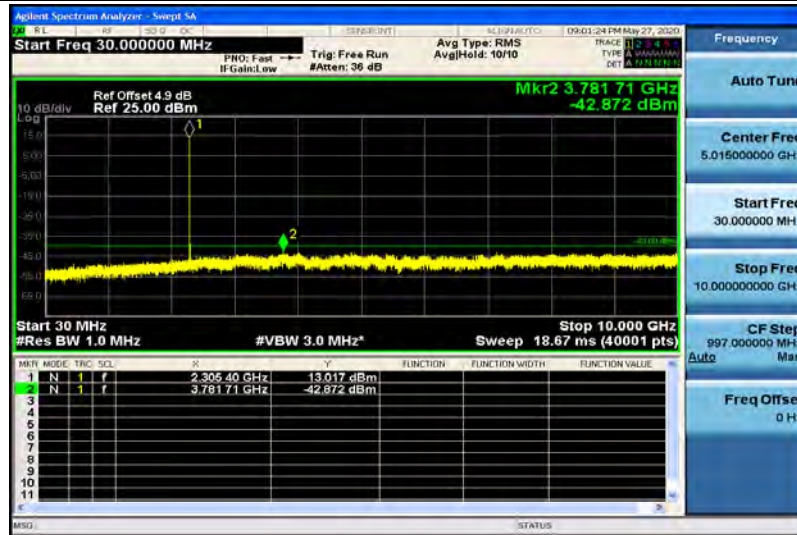
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0-2





Channel Bandwidth : 10 MHz

(Channel Bandwidth: 10 MHz)_MCH_QPSK_1RB#0-1



(Channel Bandwidth: 10 MHz)_MCH_QPSK_1RB#0-2





Appendix F: Frequency Stability

Test Result

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	-12.40	-0.005271	± 2.5	PASS
		VN	TN	-7.90	-0.003358	± 2.5	PASS
		VH	TN	-9.30	-0.003953	± 2.5	PASS
	MCH	VL	TN	-3.60	-0.001529	± 2.5	PASS
		VN	TN	2.60	0.001104	± 2.5	PASS
		VH	TN	1.40	0.000594	± 2.5	PASS
	HCH	VL	TN	7.00	0.002969	± 2.5	PASS
		VN	TN	7.50	0.003181	± 2.5	PASS
		VH	TN	6.50	0.002757	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-12.70	-0.005399	± 2.5	PASS
		VN	-20	-2.60	-0.001105	± 2.5	PASS
		VN	-10	-8.00	-0.003401	± 2.5	PASS
		VN	0	1.30	0.000553	± 2.5	PASS
		VN	10	-2.40	-0.001020	± 2.5	PASS
		VN	20	-9.20	-0.003911	± 2.5	PASS
		VN	30	-12.80	-0.005441	± 2.5	PASS
		VN	40	-8.70	-0.003698	± 2.5	PASS
		VN	50	-0.70	-0.000298	± 2.5	PASS
	MCH	VN	-30	-9.10	-0.003864	± 2.5	PASS
		VN	-20	9.60	0.004076	± 2.5	PASS
		VN	-10	5.50	0.002335	± 2.5	PASS
		VN	0	-6.90	-0.002930	± 2.5	PASS
		VN	10	-5.00	-0.002123	± 2.5	PASS
		VN	20	-2.90	-0.001231	± 2.5	PASS
		VN	30	-3.00	-0.001274	± 2.5	PASS
		VN	40	-2.30	-0.000977	± 2.5	PASS
	VN	50	-1.10	-0.000467	± 2.5	PASS	
	HCH	VN	-30	0.30	0.000127	± 2.5	PASS
		VN	-20	4.80	0.002036	± 2.5	PASS
		VN	-10	5.10	0.002163	± 2.5	PASS
		VN	0	6.70	0.002842	± 2.5	PASS
		VN	10	6.80	0.002884	± 2.5	PASS
		VN	20	8.40	0.003563	± 2.5	PASS
		VN	30	8.60	0.003648	± 2.5	PASS



		VN	40	9.80	0.004157	± 2.5	PASS
		VN	50	11.80	0.005005	± 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	MCH	VL	TN	3.50	0.001486	± 2.5	PASS
		VN	TN	2.60	0.001104	± 2.5	PASS
		VH	TN	1.20	0.000510	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	MCH	VN	-30	2.60	0.001104	± 2.5	PASS
		VN	-20	6.20	0.002633	± 2.5	PASS
		VN	-10	-10.20	-0.004331	± 2.5	PASS
		VN	0	-7.20	-0.003057	± 2.5	PASS
		VN	10	-7.00	-0.002972	± 2.5	PASS
		VN	20	-5.30	-0.002251	± 2.5	PASS
		VN	30	-3.80	-0.001614	± 2.5	PASS
		VN	40	-1.70	-0.000722	± 2.5	PASS
		VN	50	1.20	0.000510	± 2.5	PASS