



Appendix F: Test Data for E-UTRA Band 14

Product Name: CellCOM Prime 7 4G

Trade Mark: AES

Test Model: PRIME7-PX-IMPX-PED/4GA

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan



F.1 Conducted Output Power

Test Result

Channel Bandwidth: 5 MHz

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	23.37	22.62	PASS
		1	12	23.52	22.84	PASS
		1	24	23.15	22.61	PASS
		12	0	22.64	21.96	PASS
		12	6	22.65	21.81	PASS
		12	13	22.53	21.67	PASS
		25	0	22.60	21.79	PASS
	MCH	1	0	23.39	22.89	PASS
		1	12	23.53	22.97	PASS
		1	24	23.29	22.75	PASS
		12	0	22.68	22.45	PASS
		12	6	23.48	22.73	PASS
		12	13	23.93	22.42	PASS
		25	0	23.38	22.87	PASS
	HCH	1	0	23.42	22.63	PASS
		1	12	23.74	22.22	PASS
		1	24	23.36	22.19	PASS
		12	0	23.33	22.18	PASS
		12	6	23.44	22.29	PASS
		12	13	23.03	22.98	PASS
		25	0	23.22	22.14	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	MCH	1	0	23.19	22.32	PASS
		1	24	23.05	22.34	PASS
		1	49	23.57	22.38	PASS
		25	0	23.88	22.67	PASS
		25	12	23.47	22.99	PASS
		25	25	23.68	22.00	PASS
		50	0	23.41	22.50	PASS



F.2 Peak-to-Average Ratio

Test Result

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.39	<13	PASS
	MCH	4.25	<13	PASS
	HCH	5.1	<13	PASS
16QAM	LCH	5.21	<13	PASS
	MCH	5.08	<13	PASS
	HCH	5.91	<13	PASS

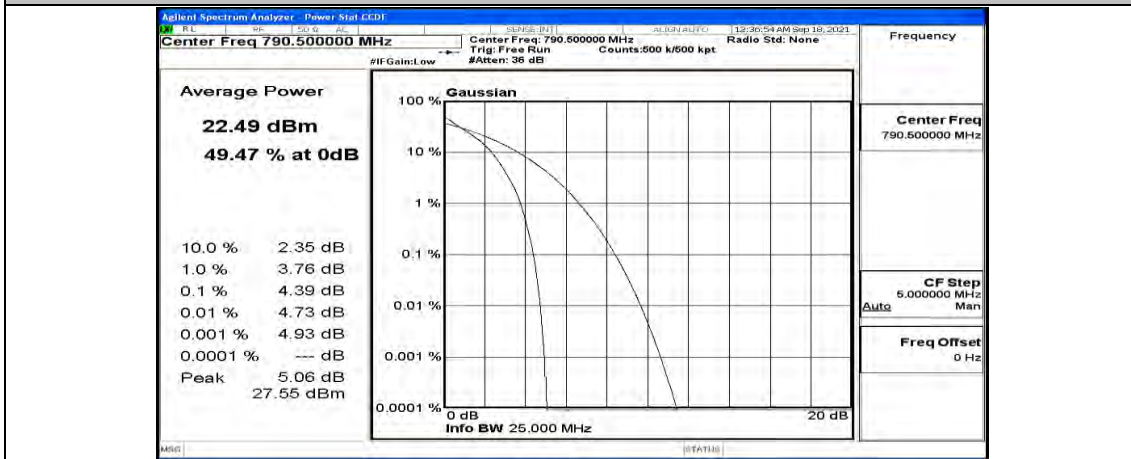
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	MCH	5.04	<13	PASS
16QAM	MCH	5.78	<13	PASS



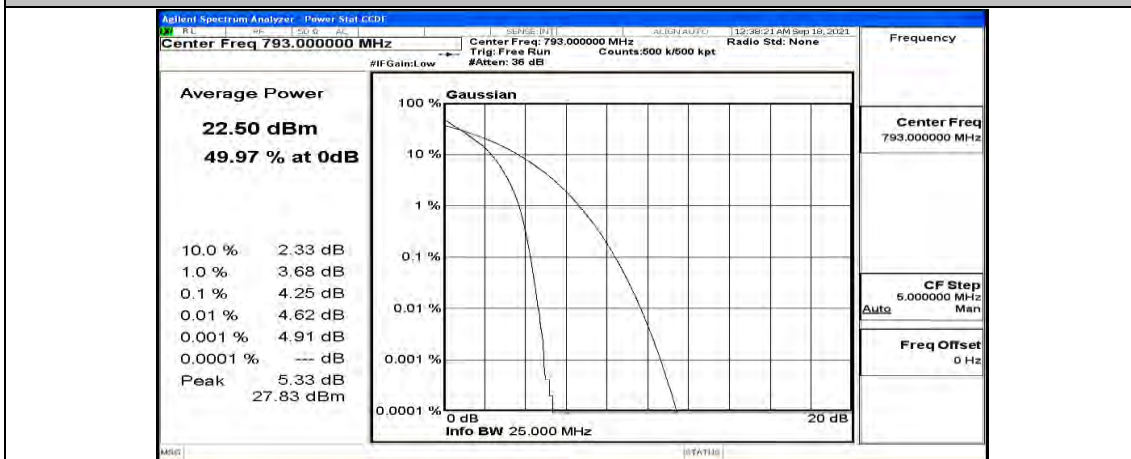
Test Graphs

Channel Bandwidth: 5 MHz

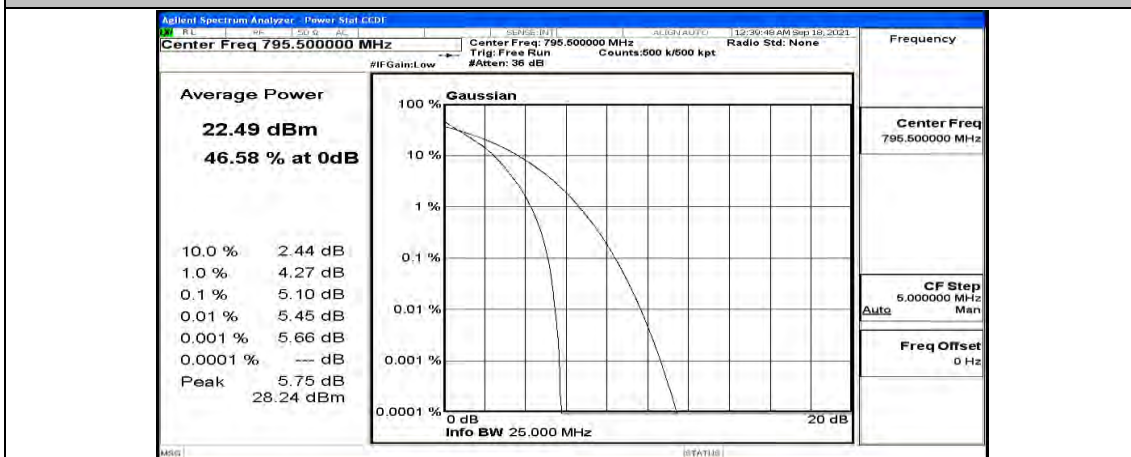
(Channel Bandwidth: 5 MHz)_LCH_QPSK



(Channel Bandwidth: 5 MHz)_MCH_QPSK

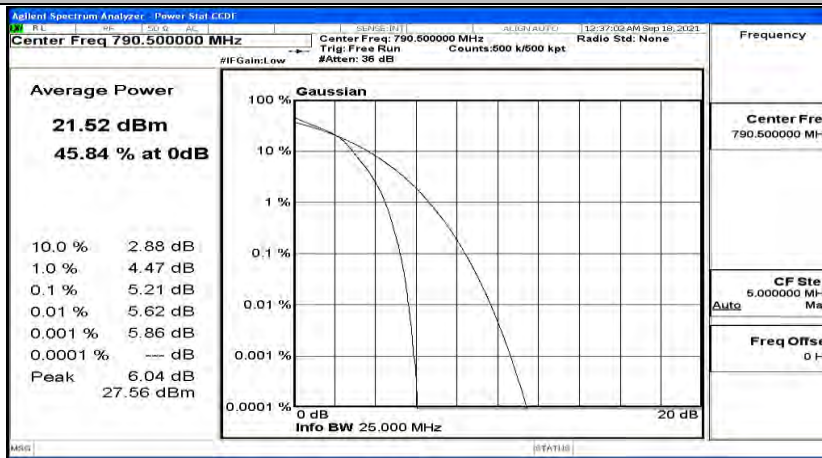


(Channel Bandwidth: 5 MHz)_HCH_QPSK

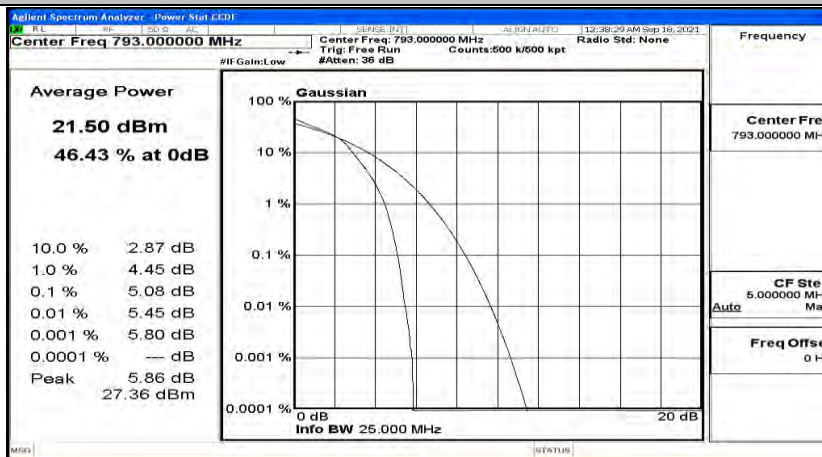




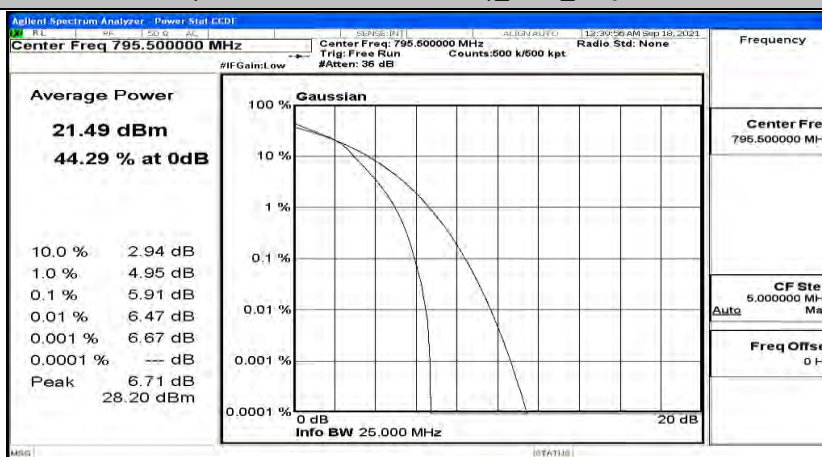
(Channel Bandwidth: 5 MHz)_LCH_16QAM



(Channel Bandwidth: 5 MHz)_MCH_16QAM



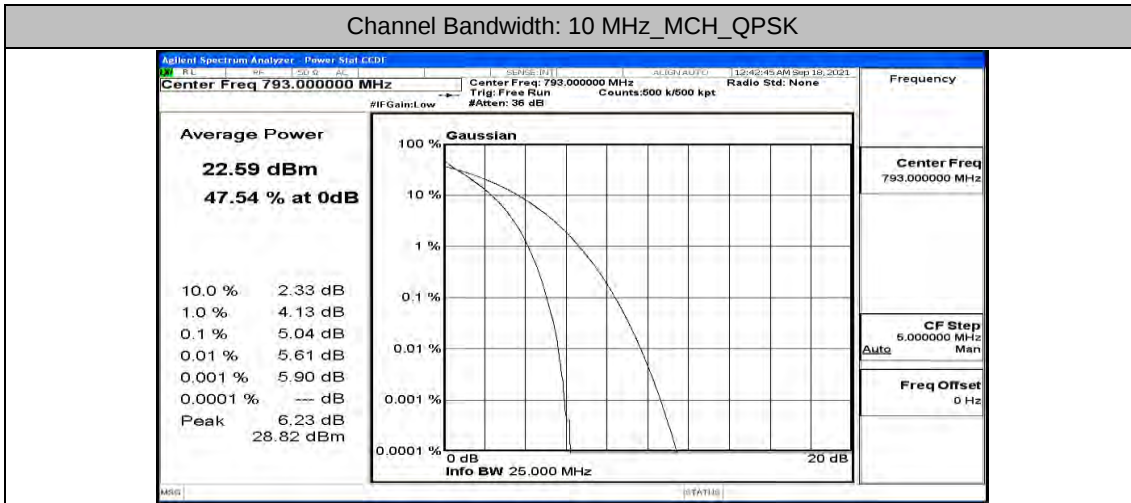
(Channel Bandwidth: 5 MHz)_HCH_16QAM



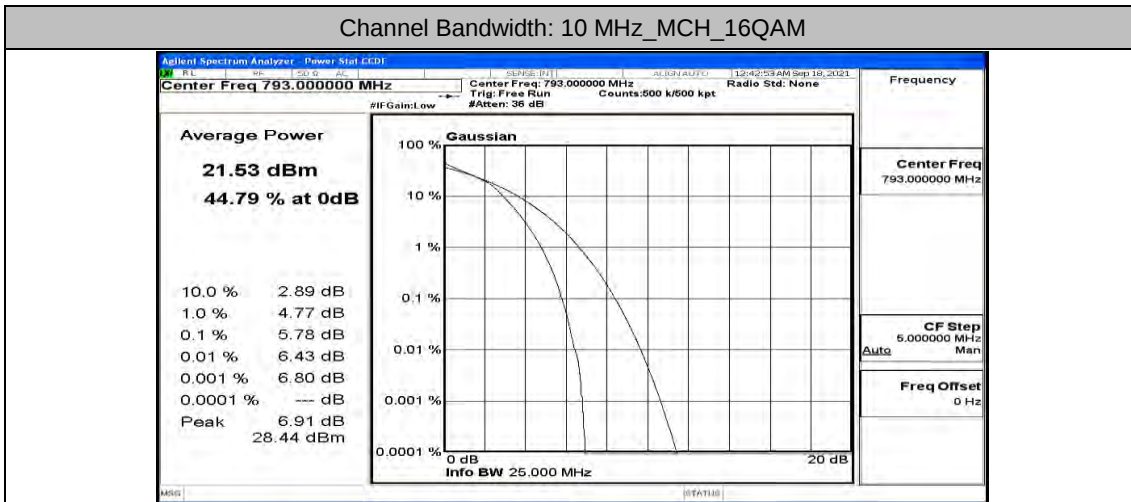


Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_MCH_QPSK



Channel Bandwidth: 10 MHz_MCH_16QAM





F.3 26dB Bandwidth and Occupied Bandwidth

Test Result

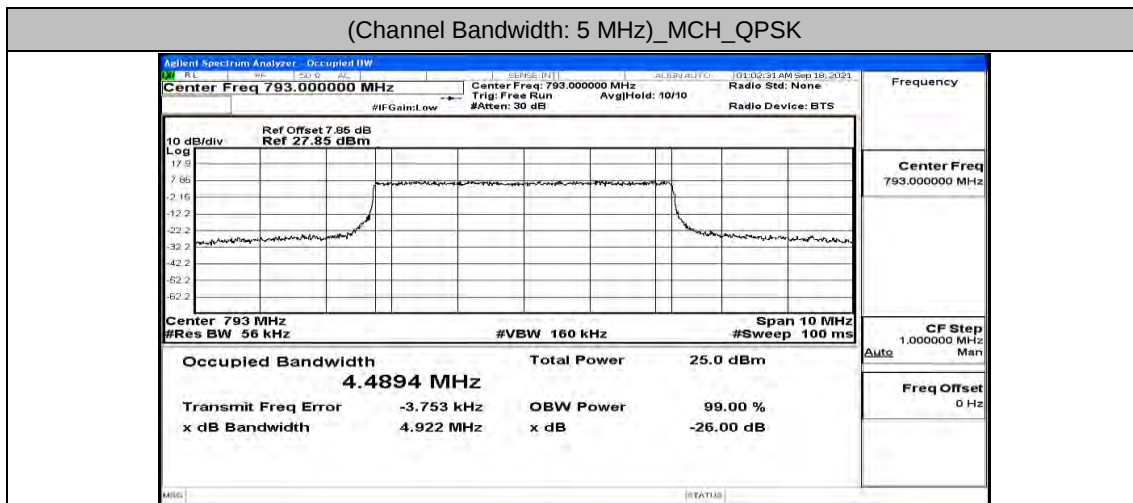
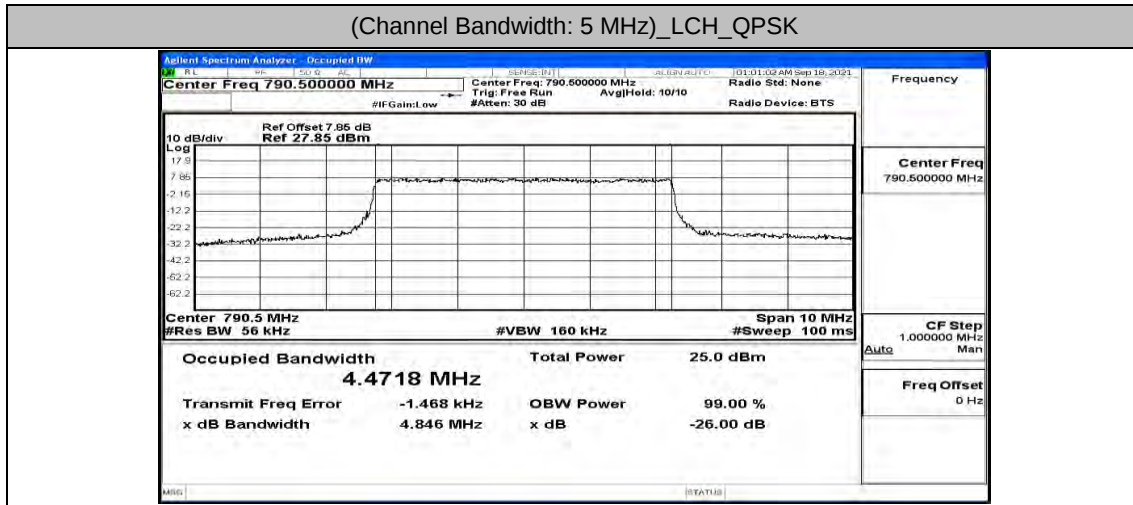
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4718	4.846	PASS
	MCH	4.4894	4.922	PASS
	HCH	4.4798	4.882	PASS
16QAM	LCH	4.4727	4.939	PASS
	MCH	4.4713	4.854	PASS
	HCH	4.4718	4.811	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	MCH	8.9617	9.567	PASS
16QAM	MCH	8.9358	9.578	PASS



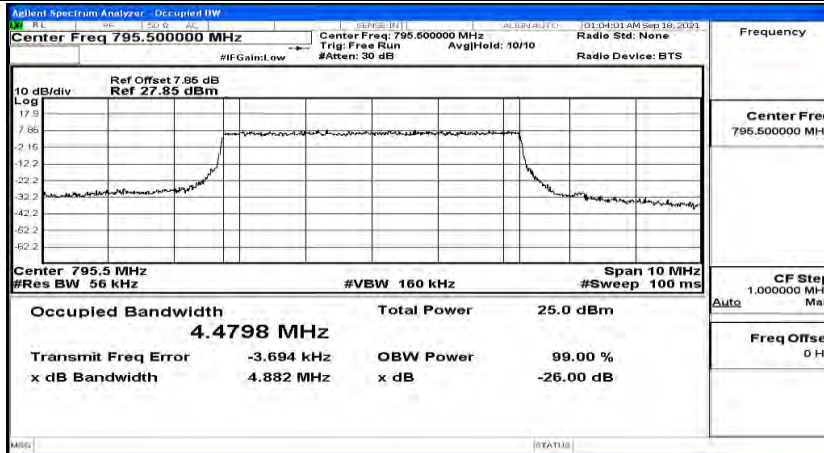
Test Graphs

Channel Bandwidth: 5 MHz

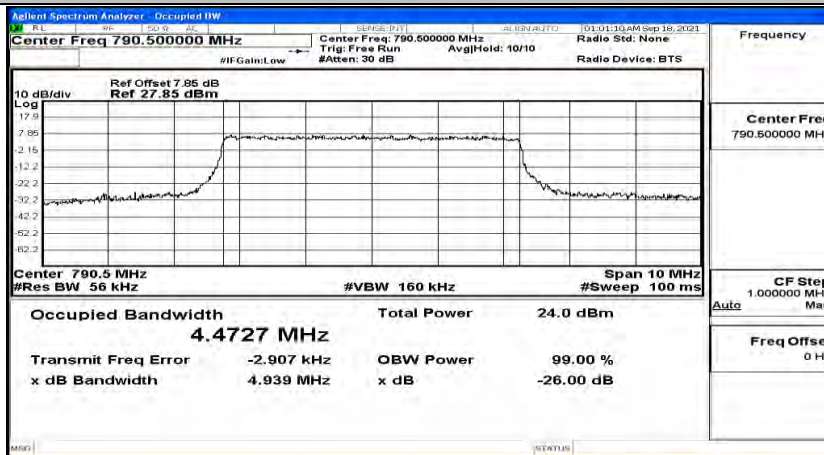




(Channel Bandwidth: 5 MHz)_HCH_QPSK

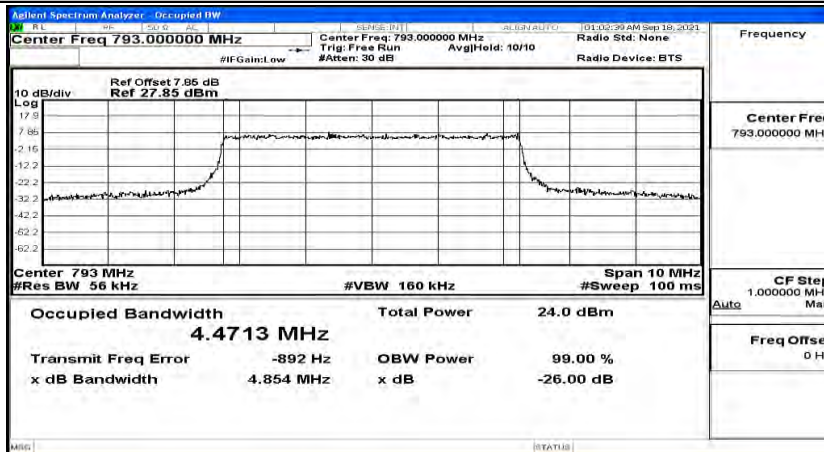


(Channel Bandwidth: 5 MHz)_LCH_16QAM

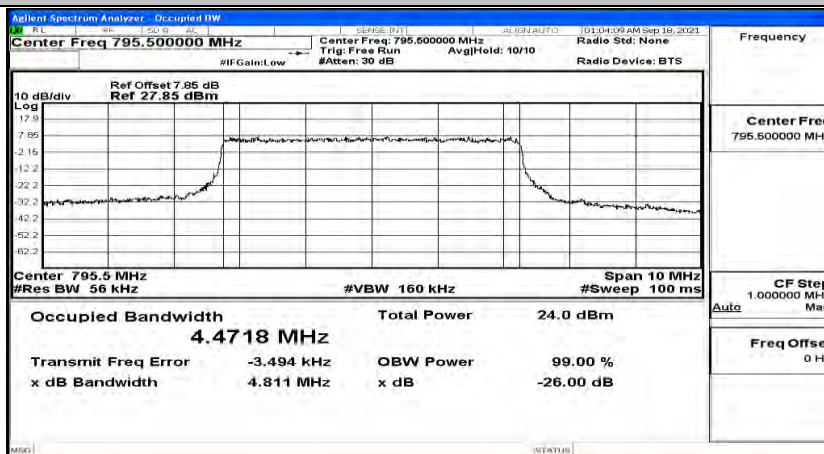




(Channel Bandwidth: 5 MHz)_MCH_16QAM

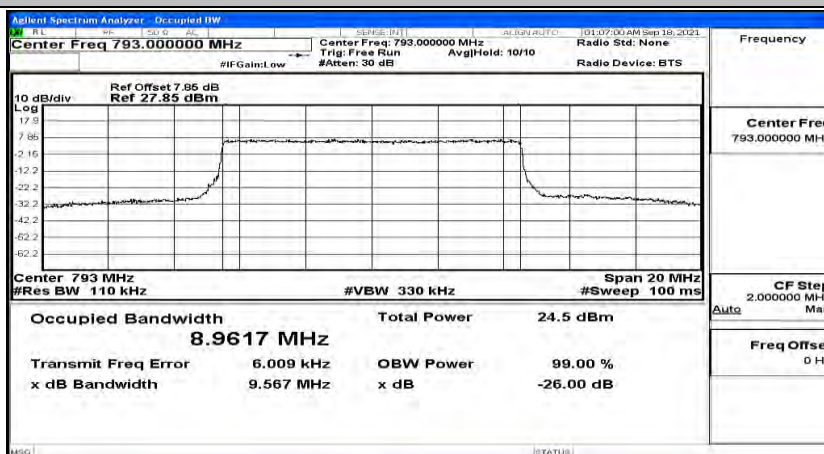


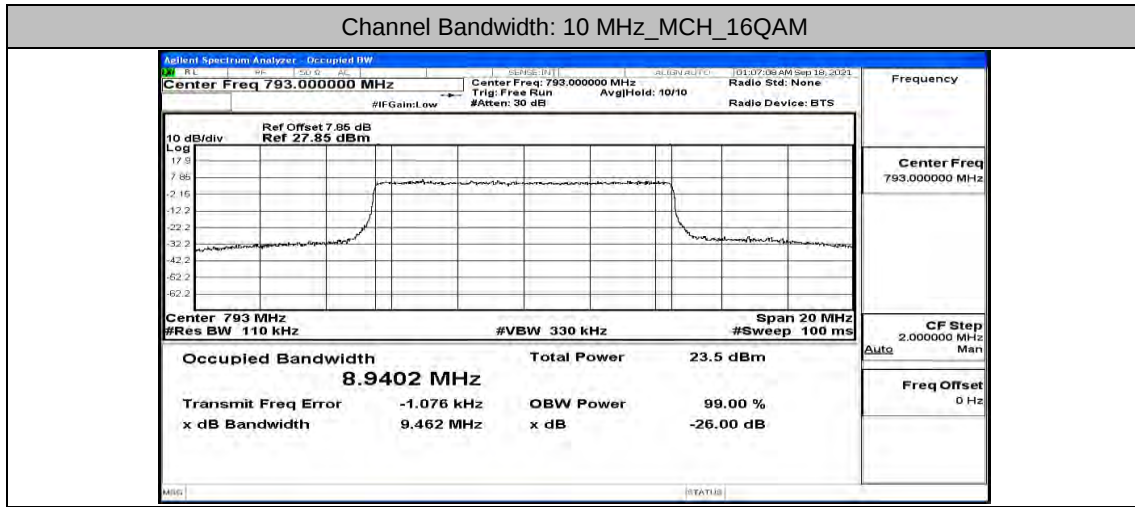
(Channel Bandwidth: 5 MHz)_HCH_16QAM



Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_MCH_QPSK





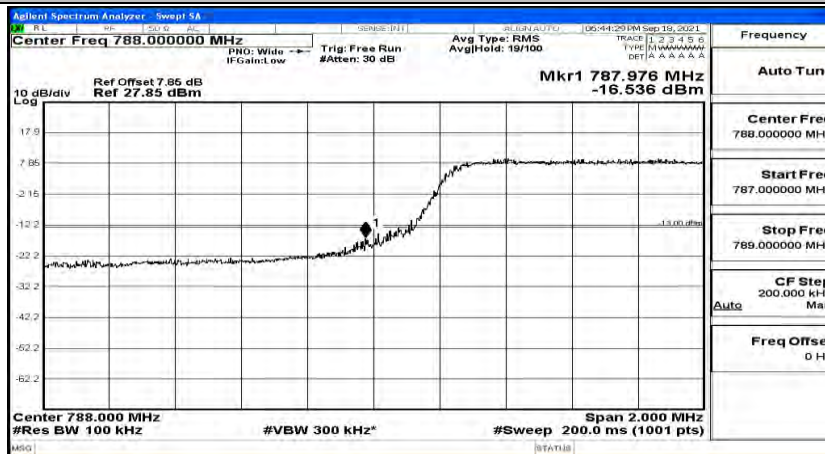


F.4 Band Edge

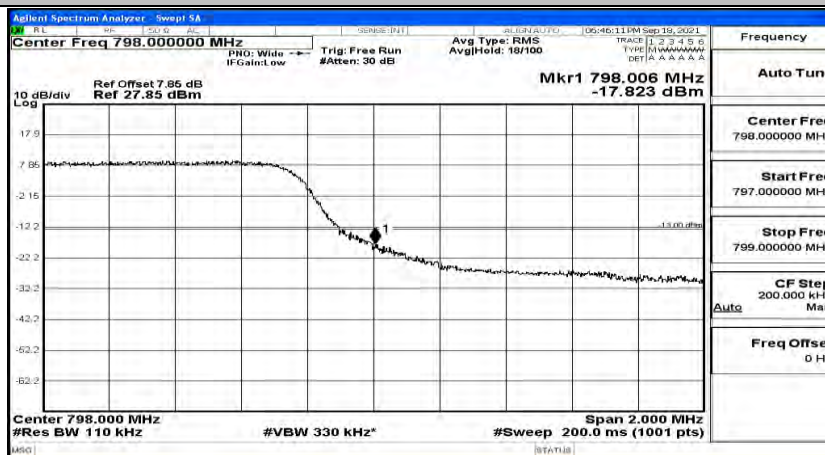
Test Graphs

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK

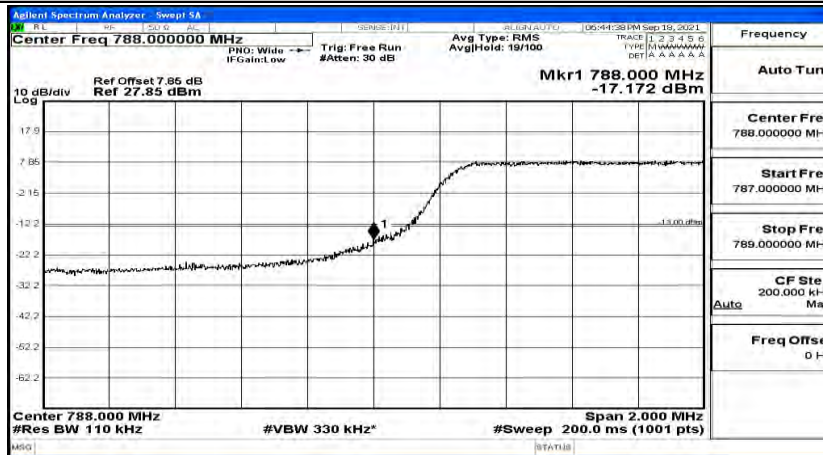


(Channel Bandwidth: 5 MHz)_HCH_QPSK

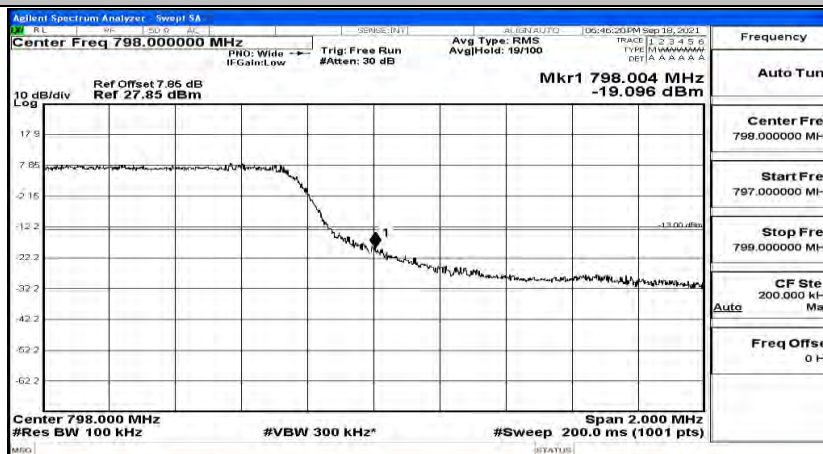




(Channel Bandwidth: 5 MHz)_LCH_16QAM



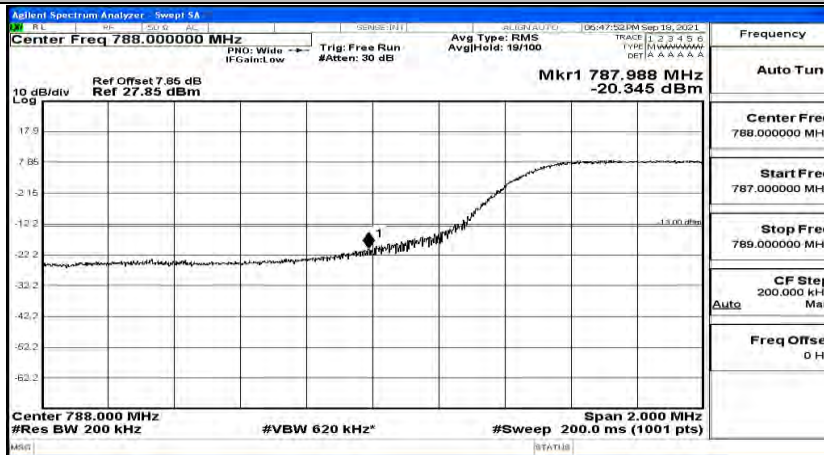
(Channel Bandwidth: 5 MHz)_HCH_16QAM



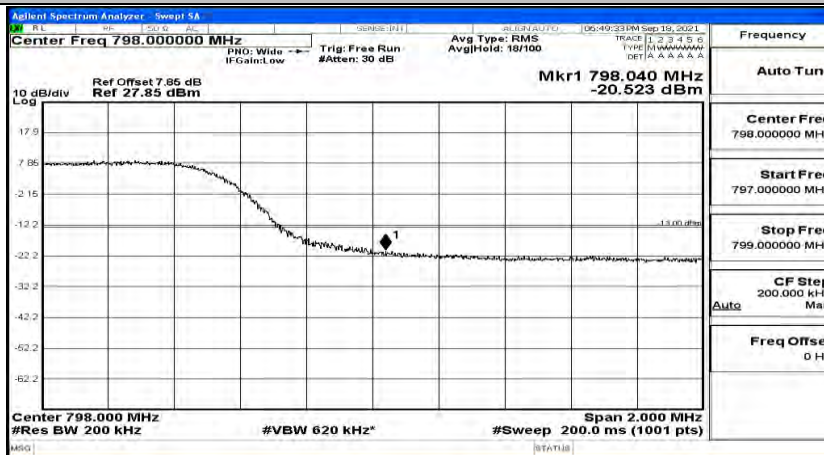


Channel Bandwidth: 10 MHz

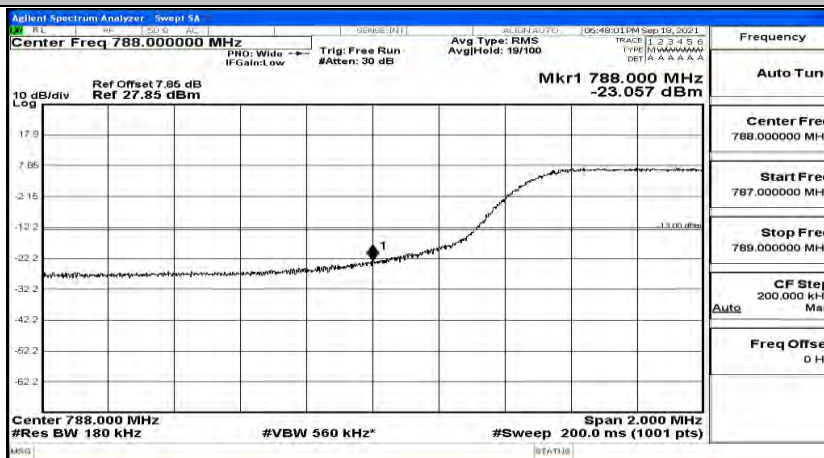
Channel Bandwidth: 10 MHz_LCH_QPSK



Channel Bandwidth: 10 MHz_HCH_QPSK

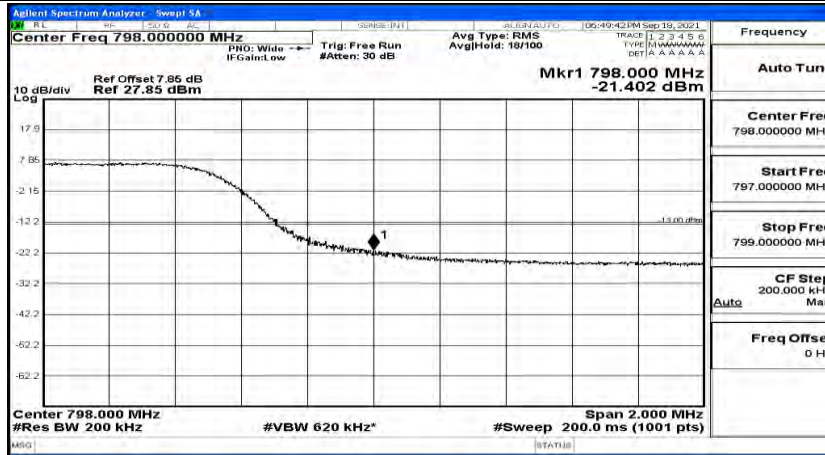


Channel Bandwidth: 10 MHz_LCH_16QAM





Channel Bandwidth: 10 MHz_HCH_16QAM



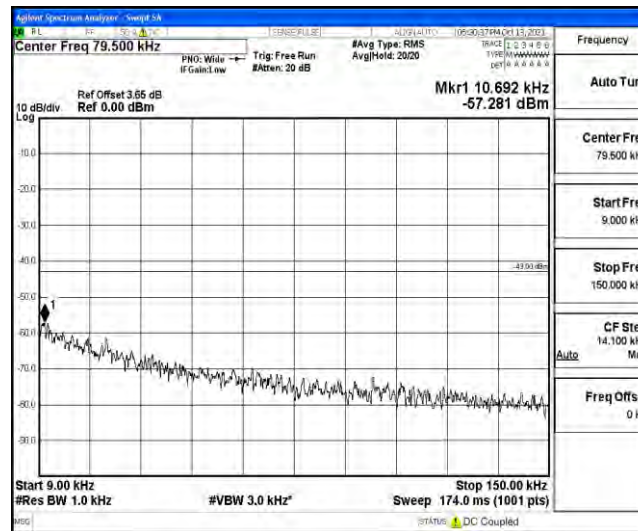


F.5 Conducted Spurious Emission

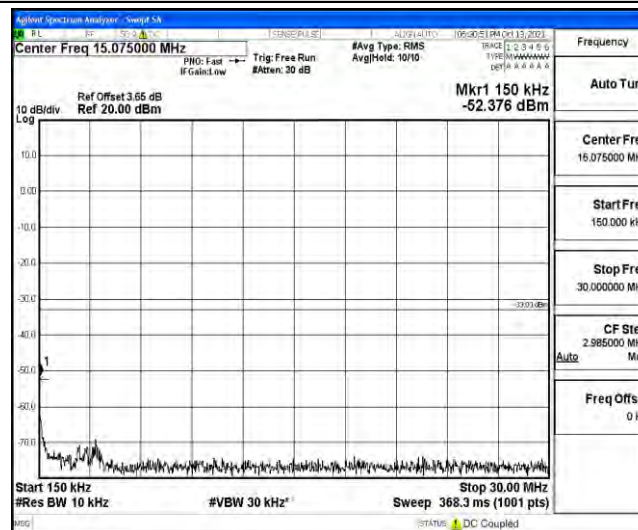
Test Graphs

Channel Bandwidth: 5 MHz

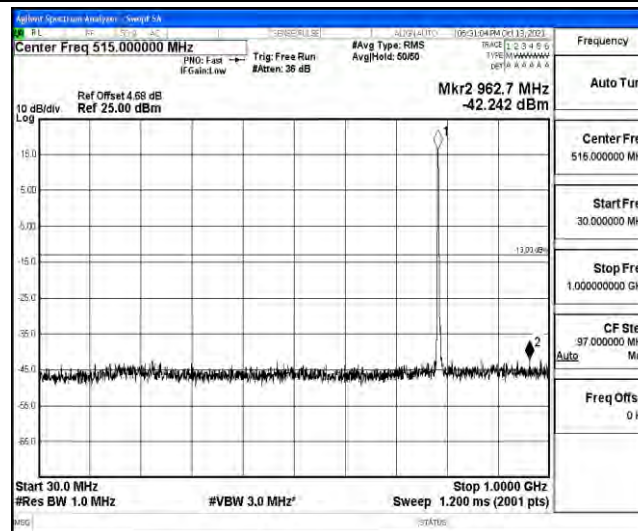
Band14-5MHz-QPSK-23305-Range1:0.009~0.15MHz



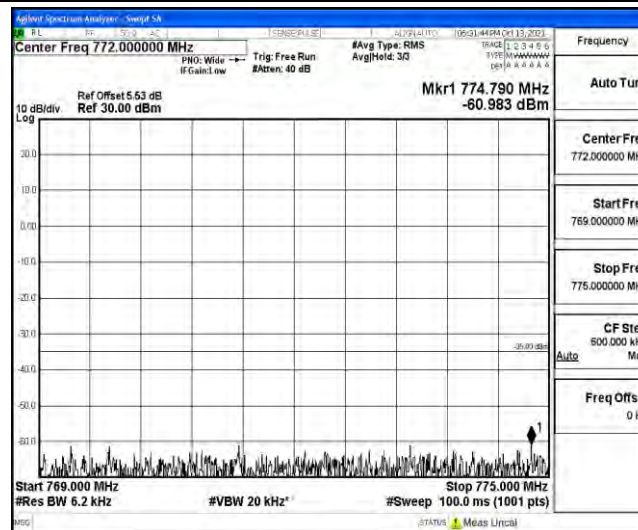
Band14-5MHz-QPSK-23305-Range2:0.15~30MHz



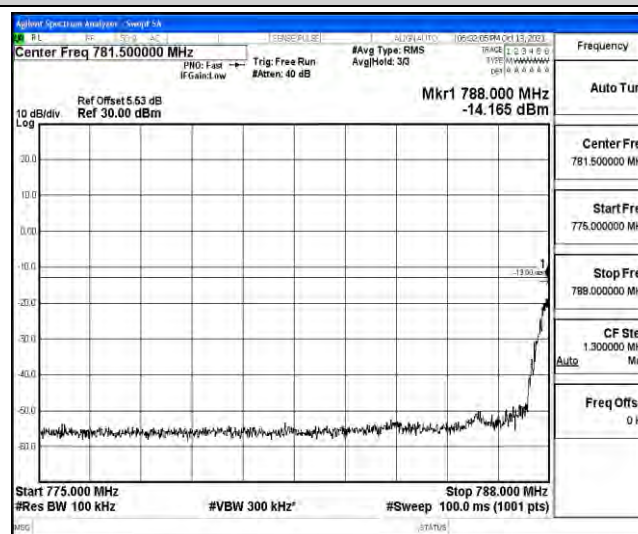
Band14-5MHz-QPSK-23305-Range3:30~1000MHz



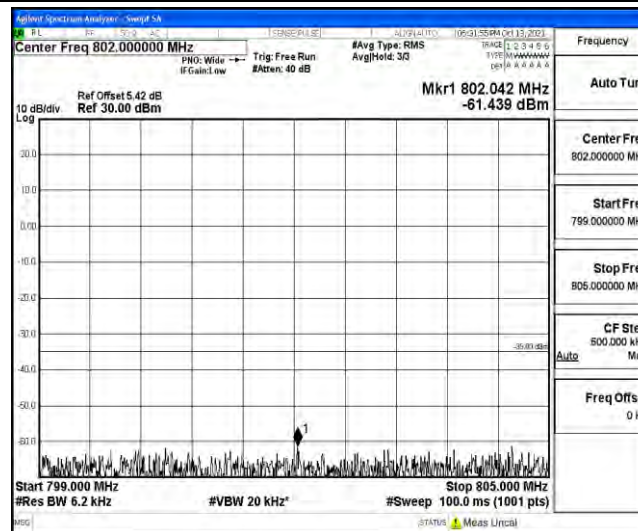
Band14-5MHz-QPSK-23305-Range5:769~775MHz



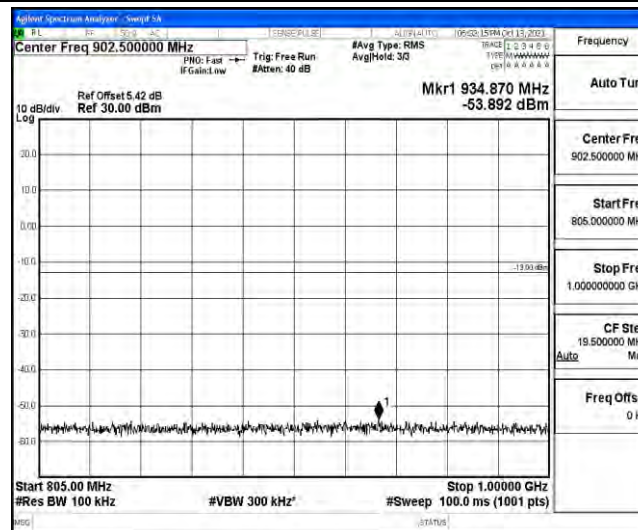
Band14-5MHz-QPSK-23305-Range7:775~788MHz



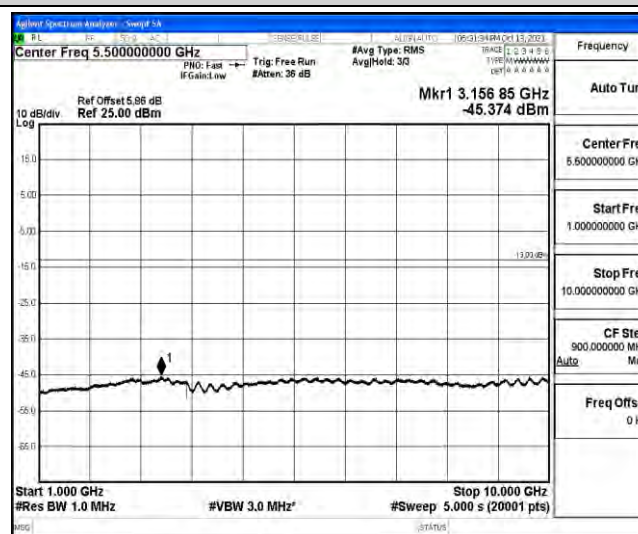
Band14-5MHz-QPSK-23305-Range6:799~805MHz



Band14-5MHz-QPSK-23305-Range8:805~1000MHz



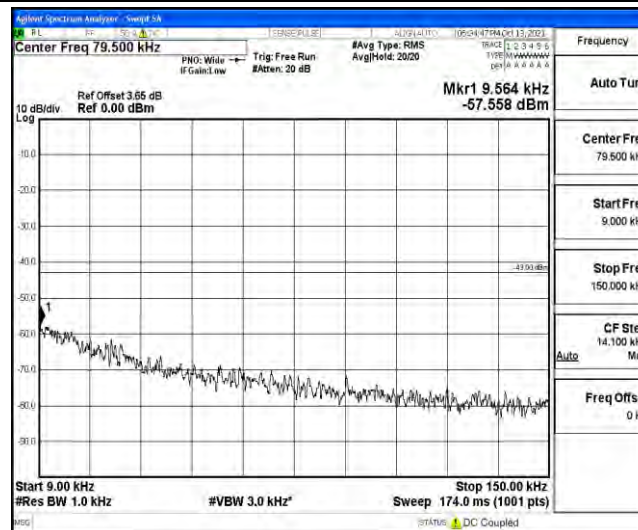
Band14-5MHz-QPSK-23305-Range4:1000~10000MHz



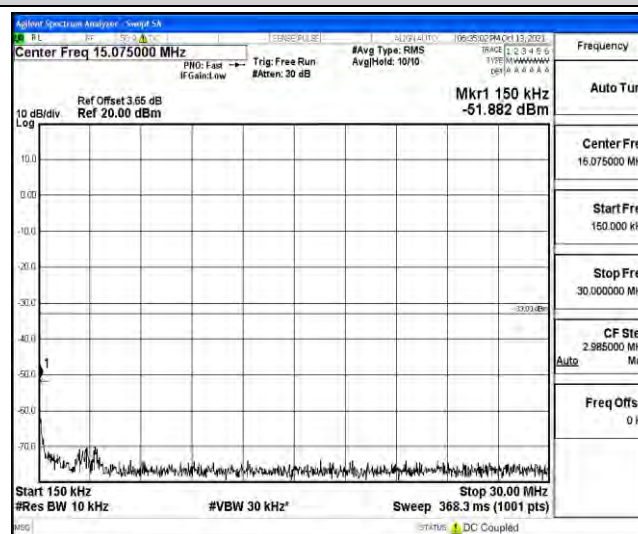
Band14-5MHz-QPSK-23305-Range9:1000~10000MHz



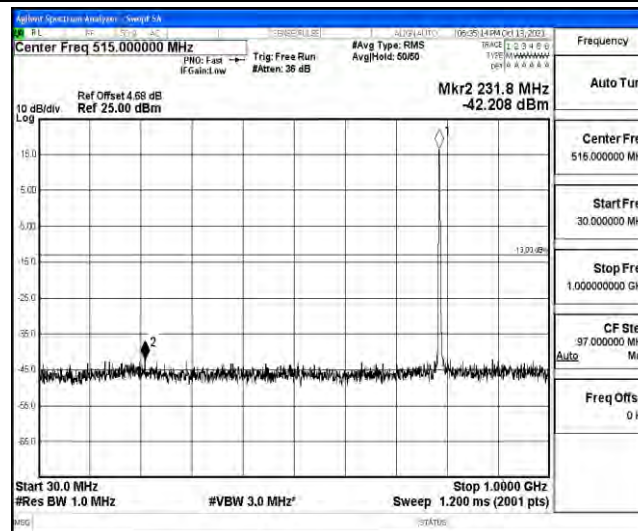
Band14-5MHz-QPSK-23330-Range1:0.009~0.15MHz



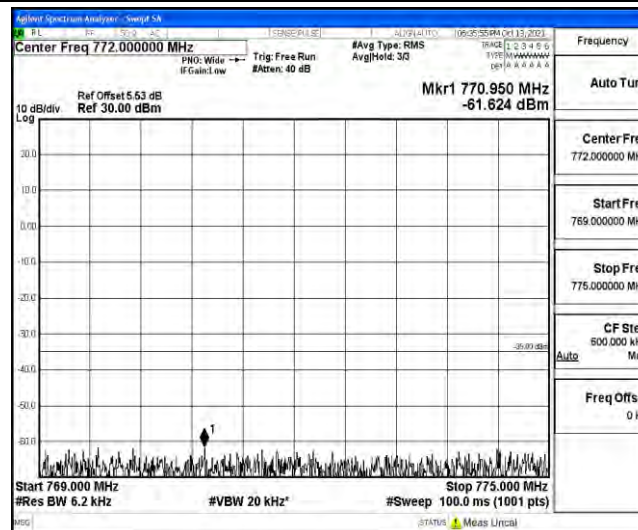
Band14-5MHz-QPSK-23330-Range2:0.15~30MHz



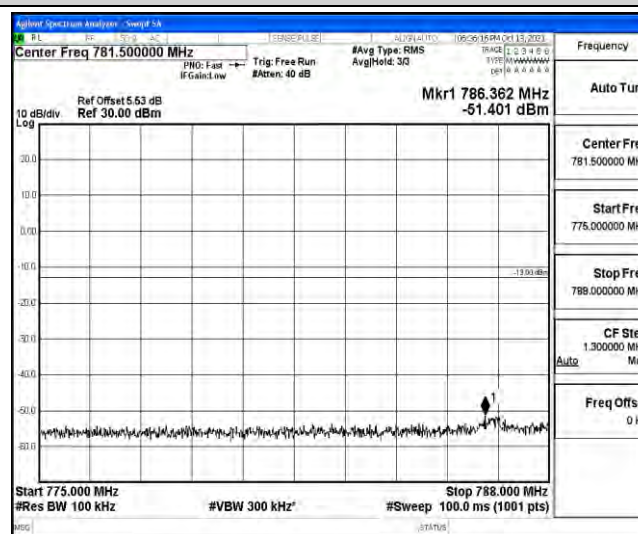
Band14-5MHz-QPSK-23330-Range3:30~1000MHz



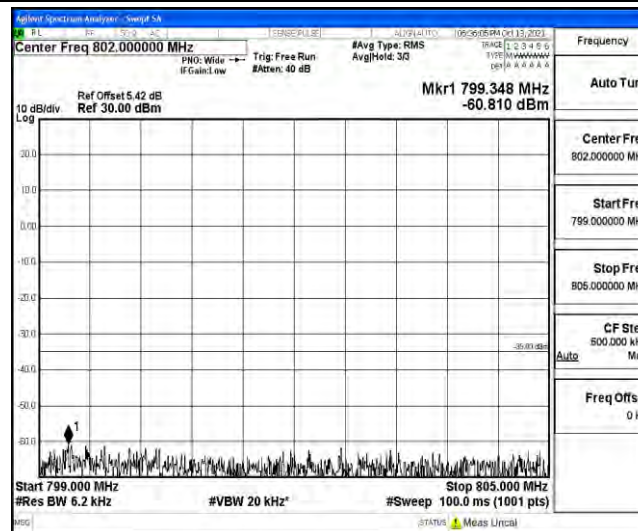
Band14-5MHz-QPSK-23330-Range5:769~775MHz



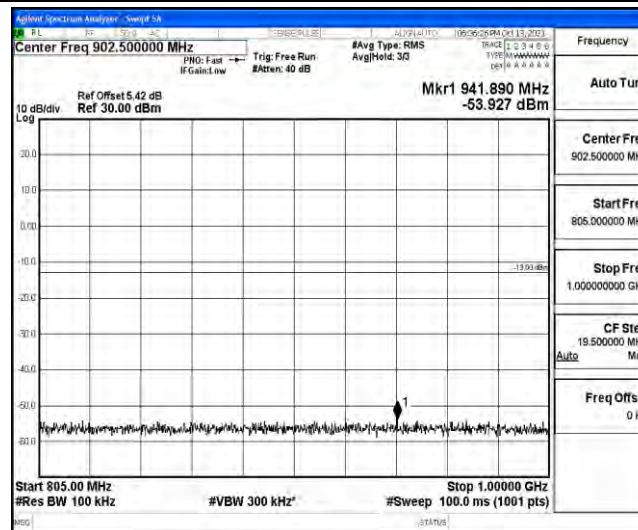
Band14-5MHz-QPSK-23330-Range7:775~788MHz



Band14-5MHz-QPSK-23330-Range6:799~805MHz



Band14-5MHz-QPSK-23330-Range8:805~1000MHz



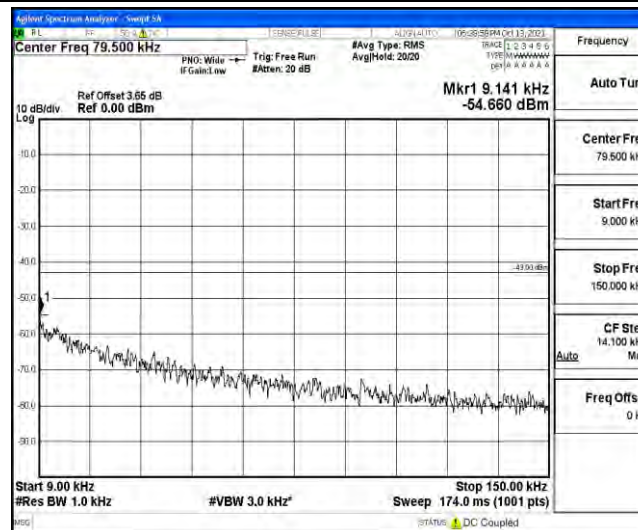
Band14-5MHz-QPSK-23330-Range9:1000~10000MHz



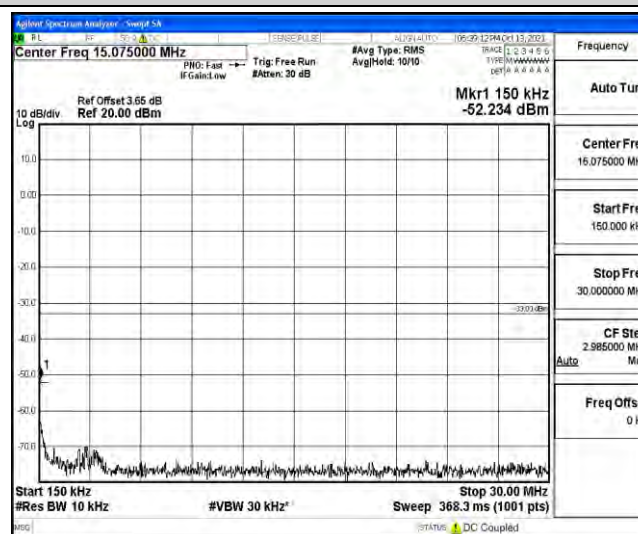
Band14-5MHz-QPSK-23330-Range4:1000~10000MHz



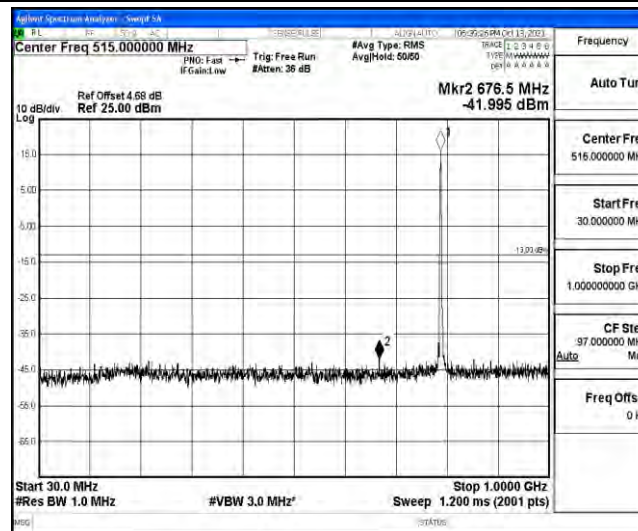
Band14-5MHz-QPSK-23355-Range1:0.009~0.15MHz



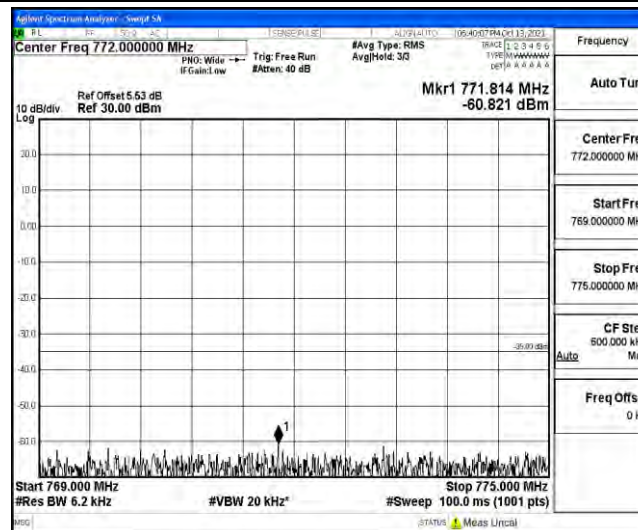
Band14-5MHz-QPSK-23355-Range2:0.15~30MHz



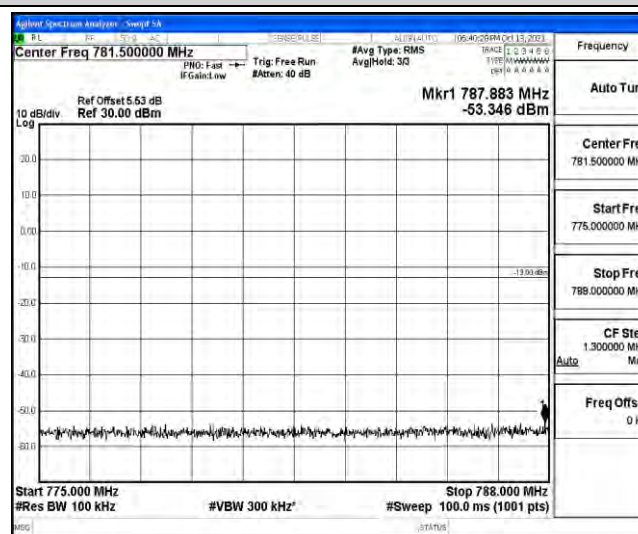
Band14-5MHz-QPSK-23355-Range3:30~1000MHz



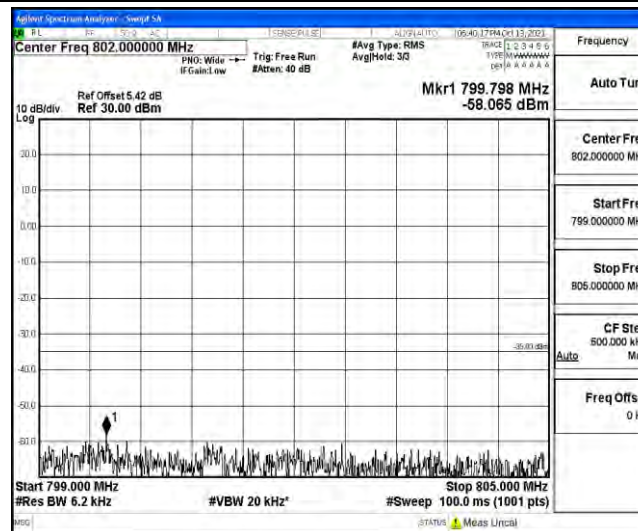
Band14-5MHz-QPSK-23355-Range5:769~775MHz



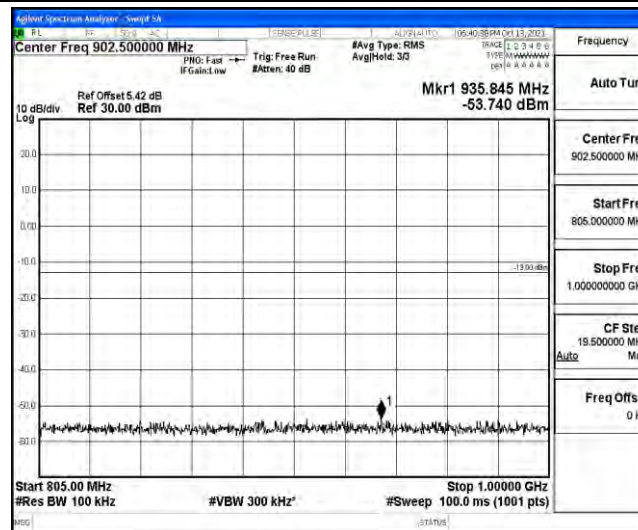
Band14-5MHz-QPSK-23355-Range7:775~788MHz



Band14-5MHz-QPSK-23355-Range6:799~805MHz



Band14-5MHz-QPSK-23355-Range8:805~1000MHz



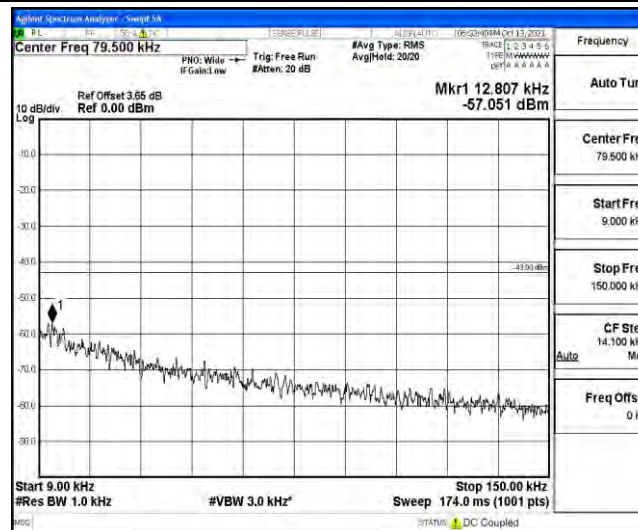
Band14-5MHz-QPSK-23355-Range4:1000~10000MHz



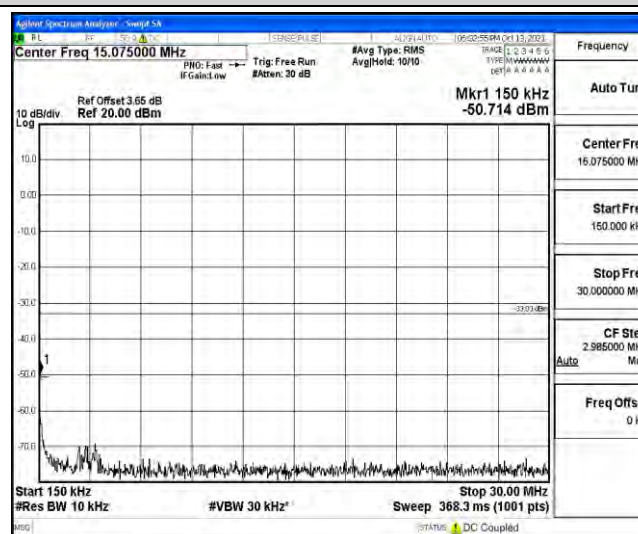
Band14-5MHz-QPSK-23355-Range9:1000~10000MHz



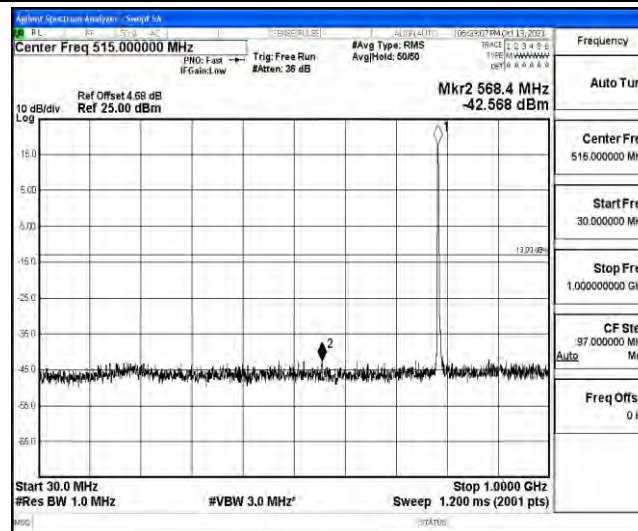
Band14-5MHz-16QAM-23305-Range1:0.009~0.15MHz



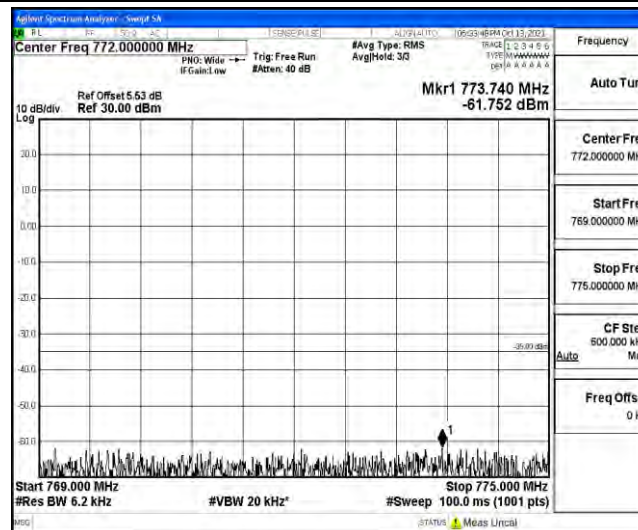
Band14-5MHz-16QAM-23305-Range2:0.15~30MHz



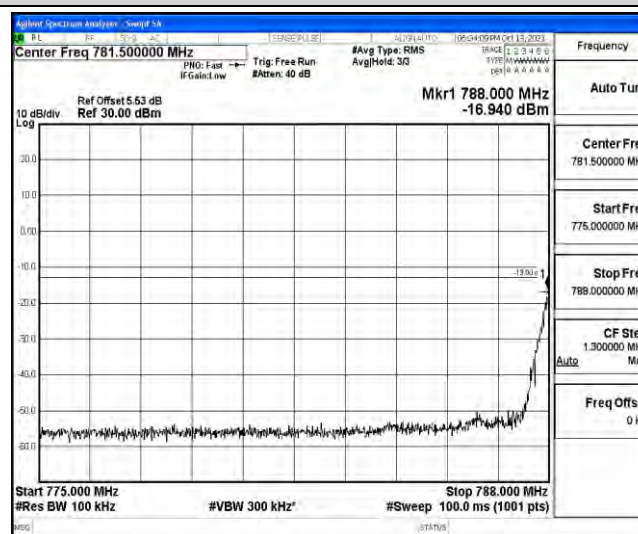
Band14-5MHz-16QAM-23305-Range3:30~1000MHz



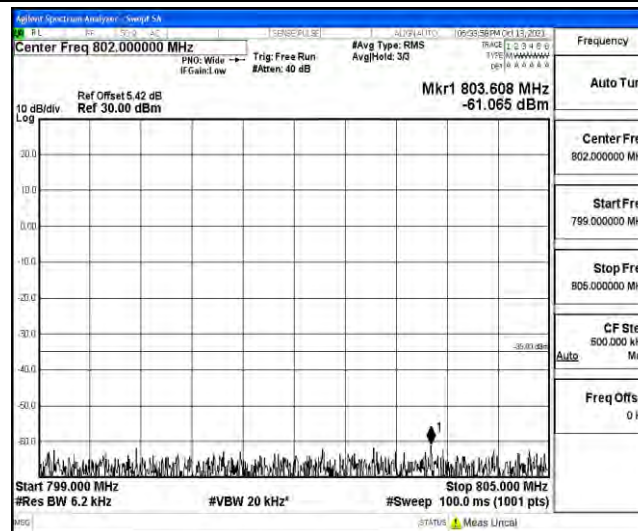
Band14-5MHz-16QAM-23305-Range5:769~775MHz



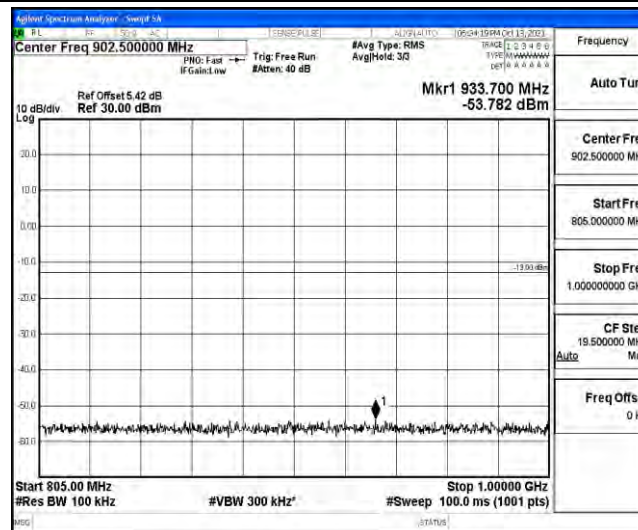
Band14-5MHz-16QAM-23305-Range7:775~788MHz



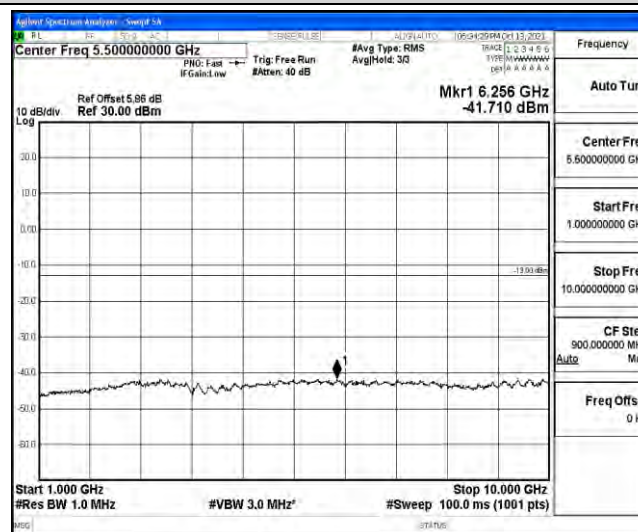
Band14-5MHz-16QAM-23305-Range6:799~805MHz



Band14-5MHz-16QAM-23305-Range8:805~1000MHz



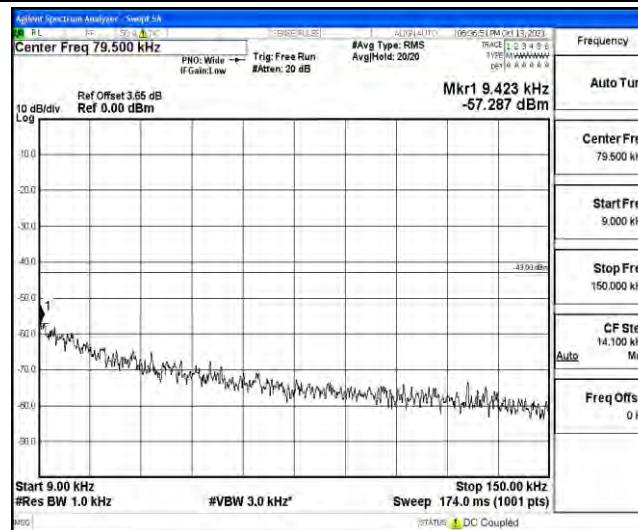
Band14-5MHz-16QAM-23305-Range9:1000~10000MHz



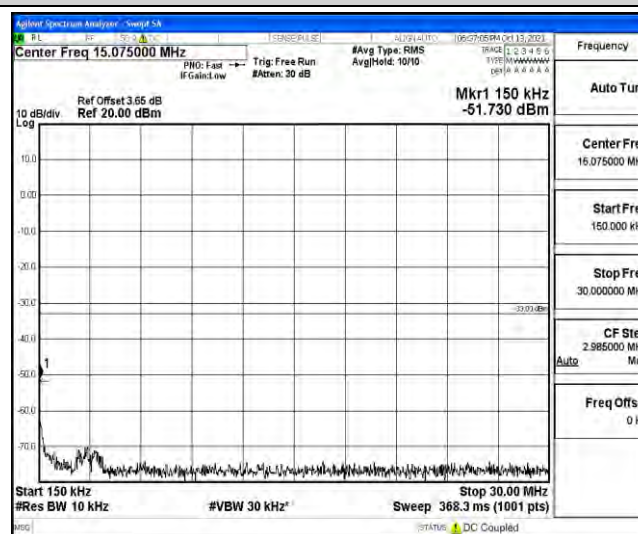
Band14-5MHz-16QAM-23305-Range4:1000~10000MHz



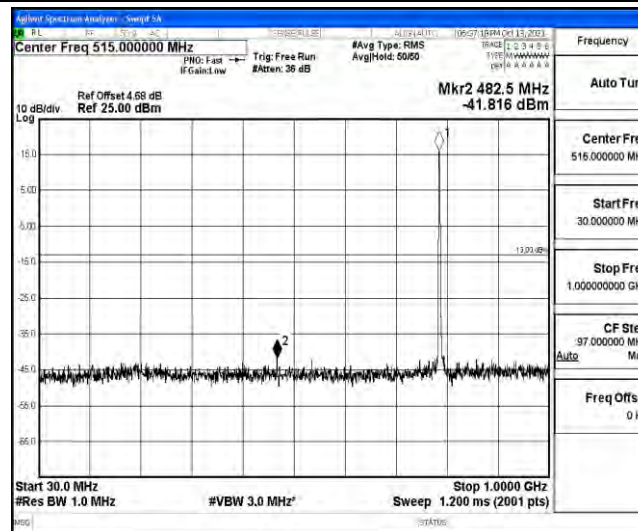
Band14-5MHz-16QAM-23330-Range1:0.009~0.15MHz



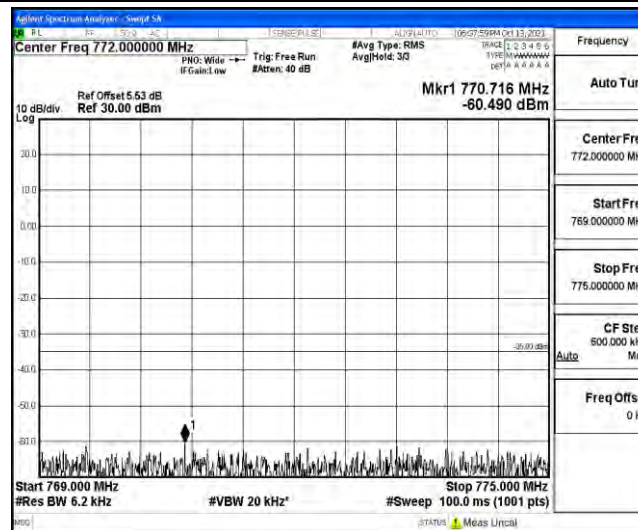
Band14-5MHz-16QAM-23330-Range2:0.15~30MHz



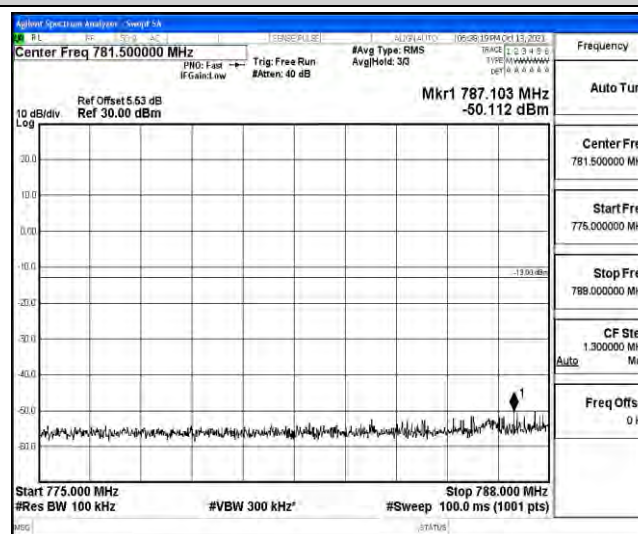
Band14-5MHz-16QAM-23330-Range3:30~1000MHz



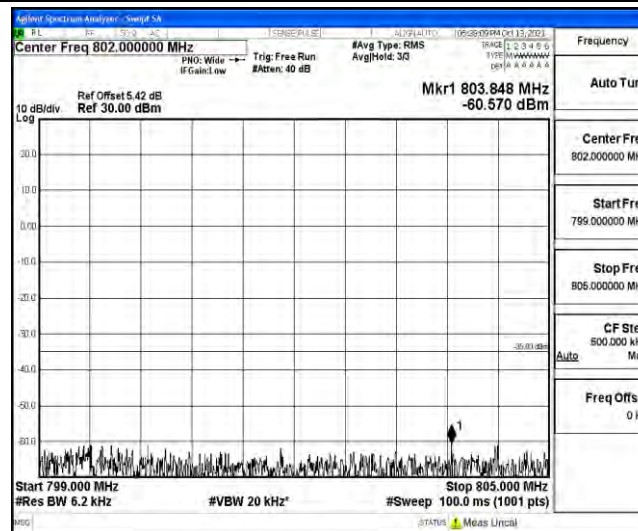
Band14-5MHz-16QAM-23330-Range5:769~775MHz



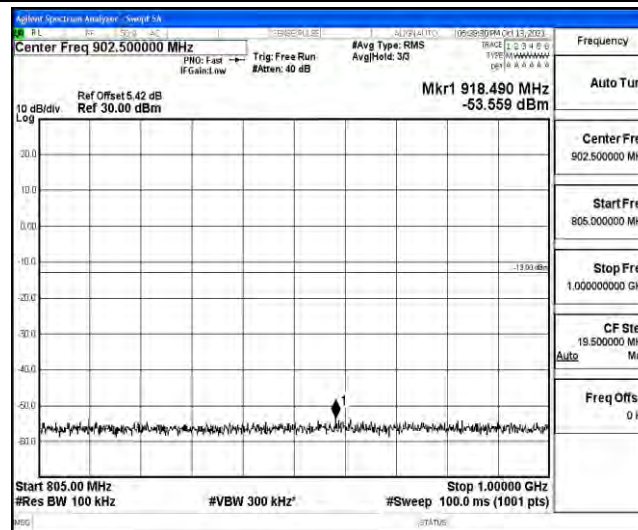
Band14-5MHz-16QAM-23330-Range7:775~788MHz



Band14-5MHz-16QAM-23330-Range6:799~805MHz



Band14-5MHz-16QAM-23330-Range8:805~1000MHz



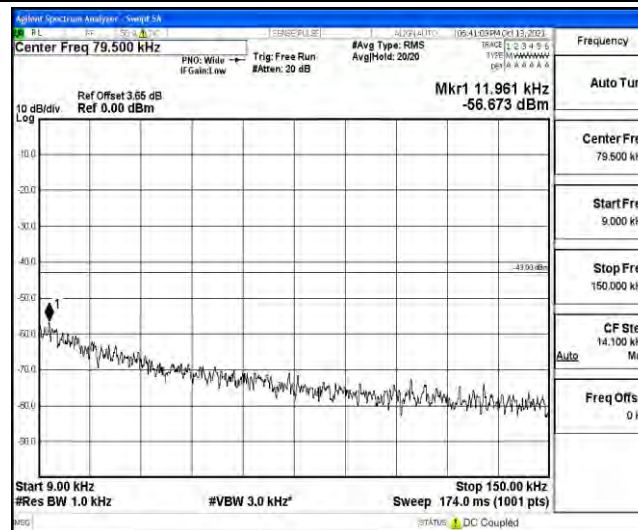
Band14-5MHz-16QAM-23330-Range9:1000~10000MHz



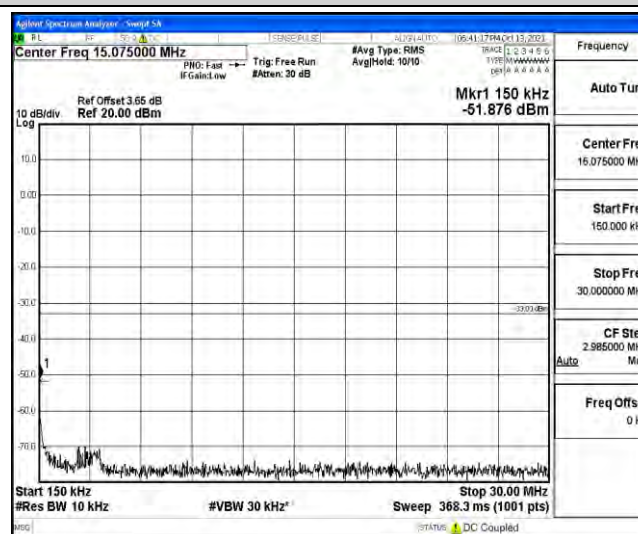
Band14-5MHz-16QAM-23330-Range4:1000~10000MHz



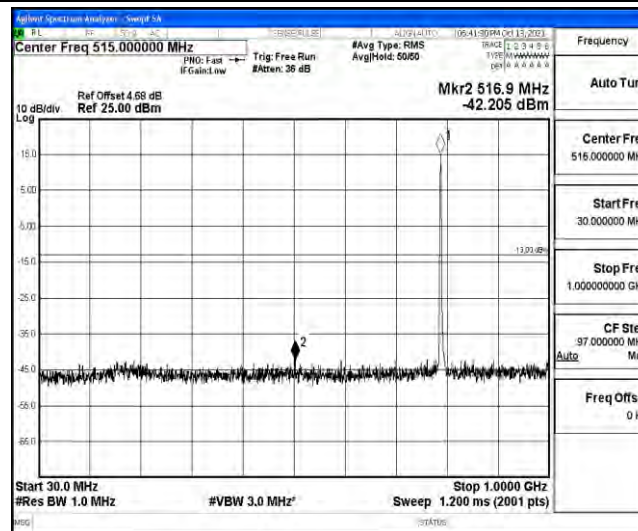
Band14-5MHz-16QAM-23355-Range1:0.009~0.15MHz



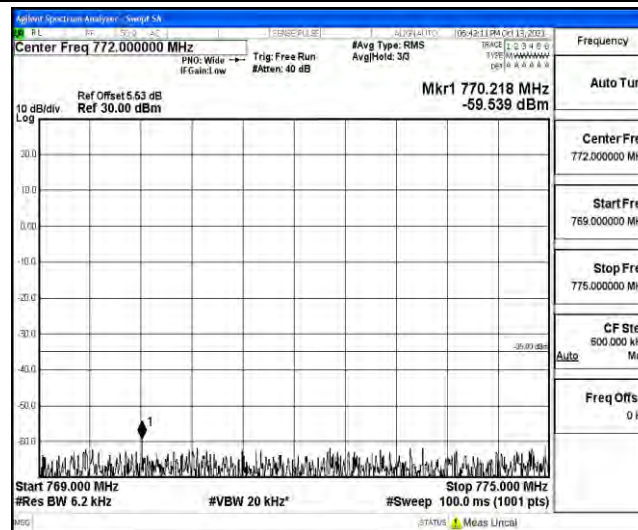
Band14-5MHz-16QAM-23355-Range2:0.15~30MHz



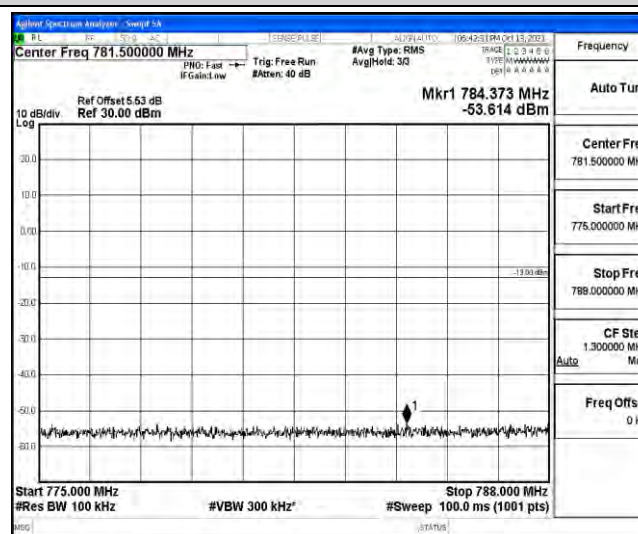
Band14-5MHz-16QAM-23355-Range3:30~1000MHz



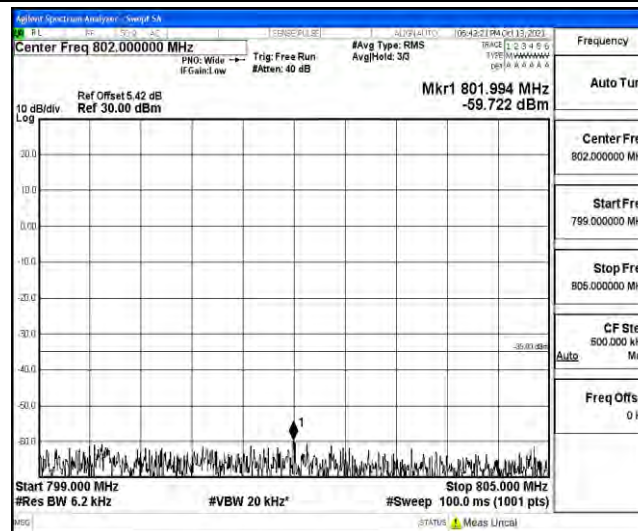
Band14-5MHz-16QAM-23355-Range5:769~775MHz



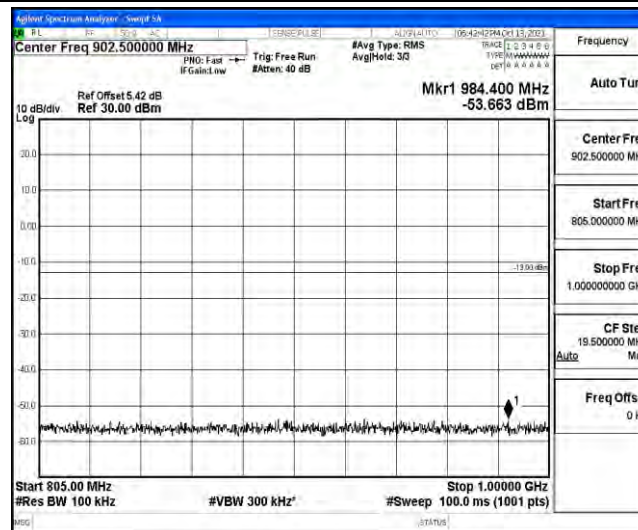
Band14-5MHz-16QAM-23355-Range7:775~788MHz



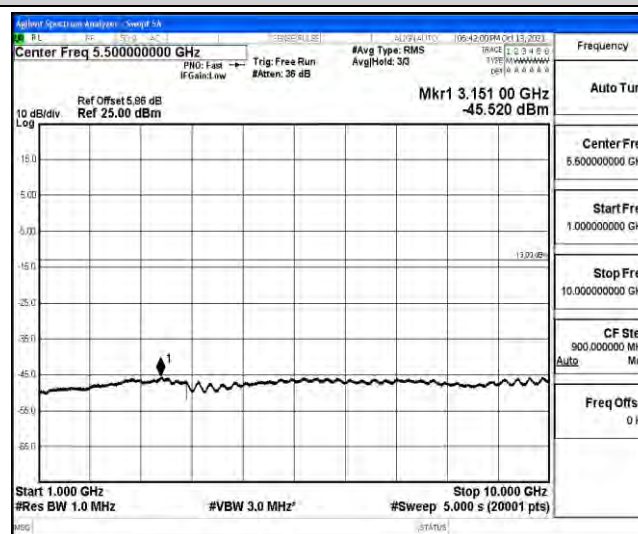
Band14-5MHz-16QAM-23355-Range6:799~805MHz



Band14-5MHz-16QAM-23355-Range8:805~1000MHz



Band14-5MHz-16QAM-23355-Range4:1000~10000MHz

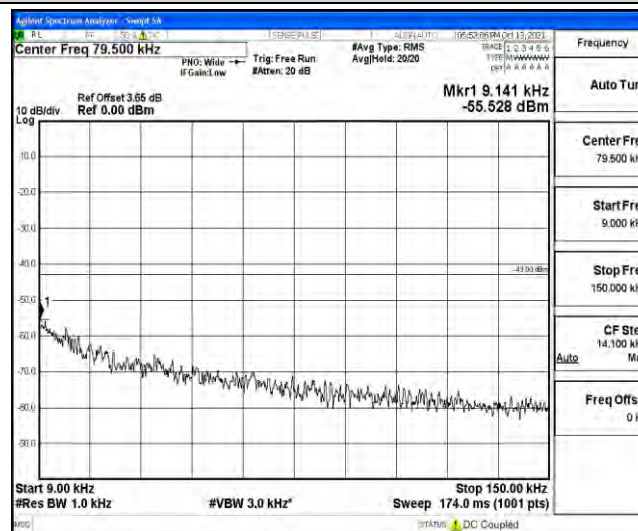


Band14-5MHz-16QAM-23355-Range9:1000~10000MHz

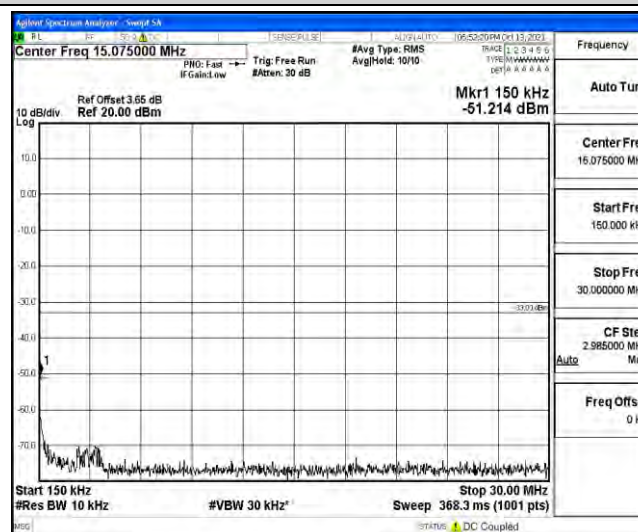


Channel Bandwidth: 10 MHz

Band14-10MHz-QPSK-23330-Range1:0.009~0.15MHz

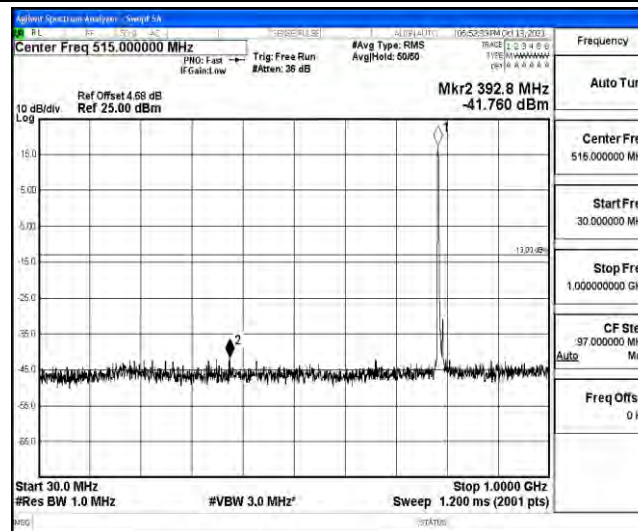


Band14-10MHz-QPSK-23330-Range2:0.15~30MHz

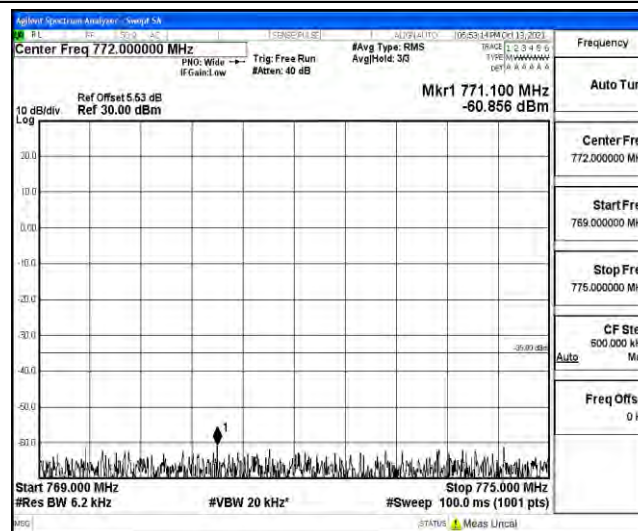




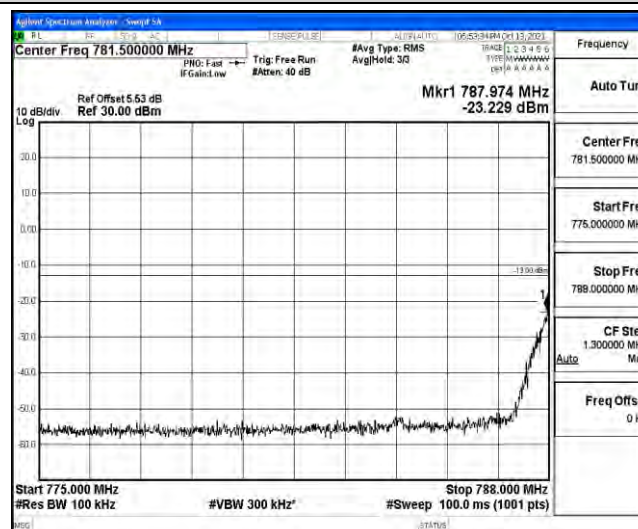
Band14-10MHz-QPSK-23330-Range3:30~1000MHz



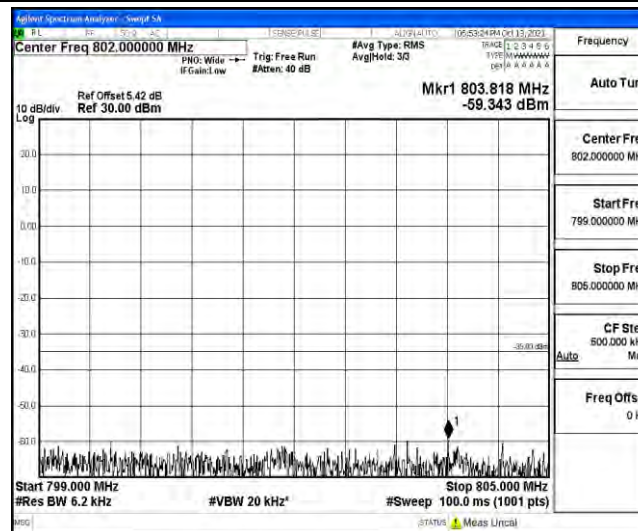
Band14-10MHz-QPSK-23330-Range5:769~775MHz



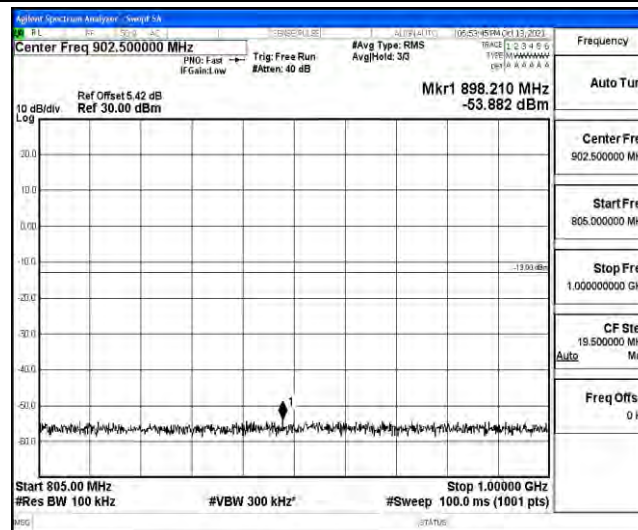
Band14-10MHz-QPSK-23330-Range7:775~788MHz



Band14-10MHz-QPSK-23330-Range6:799~805MHz



Band14-10MHz-QPSK-23330-Range8:805~1000MHz



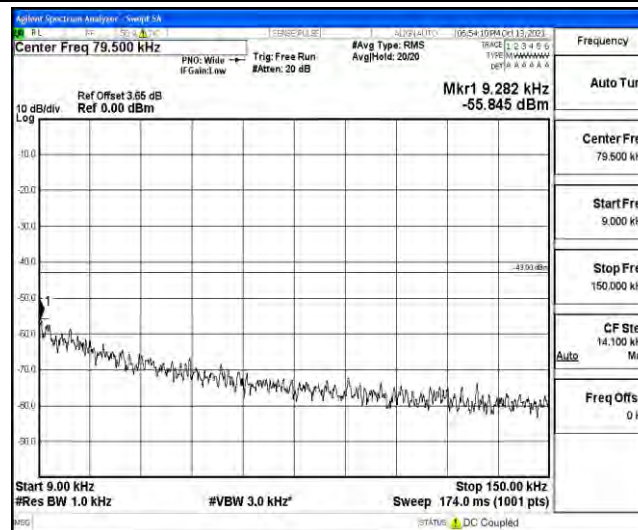
Band14-10MHz-QPSK-23330-Range9:1000~10000MHz



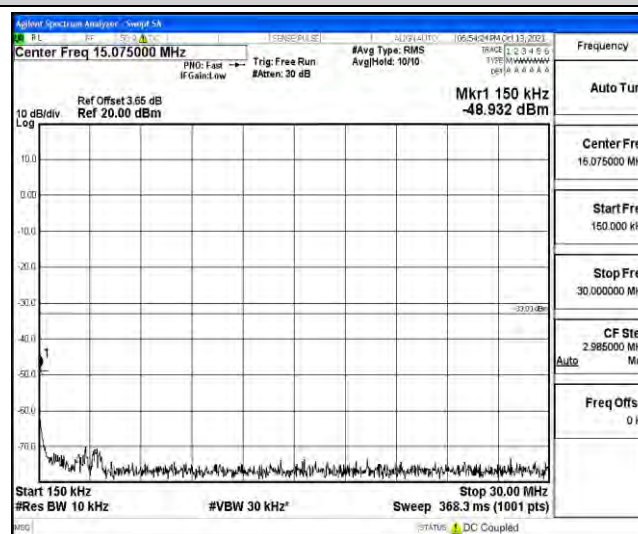
Band14-10MHz-QPSK-23330-Range4:1000~10000MHz



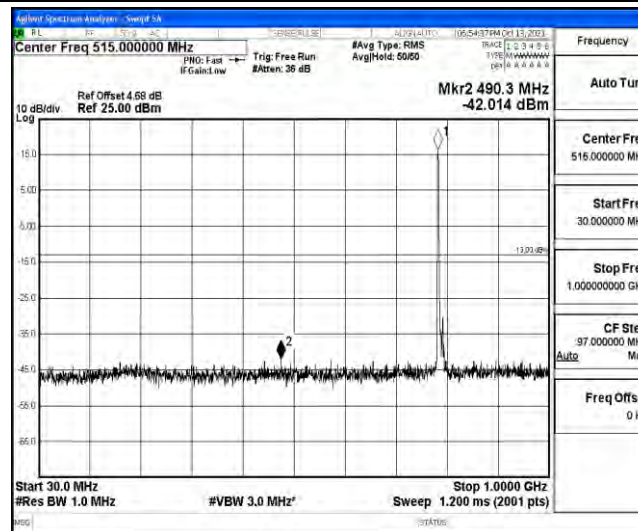
Band14-10MHz-16QAM-23330-Range1:0.009~0.15MHz



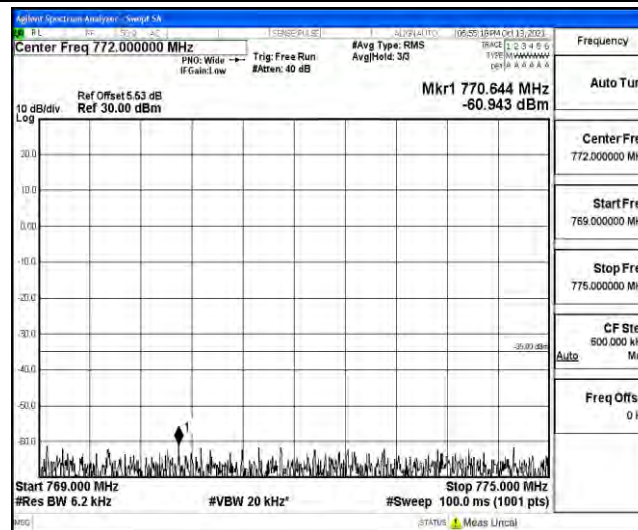
Band14-10MHz-16QAM-23330-Range2:0.15~30MHz



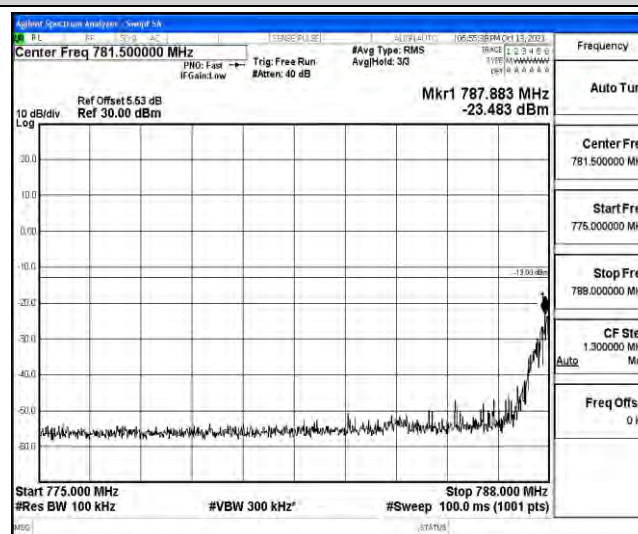
Band14-10MHz-16QAM-23330-Range3:30~1000MHz



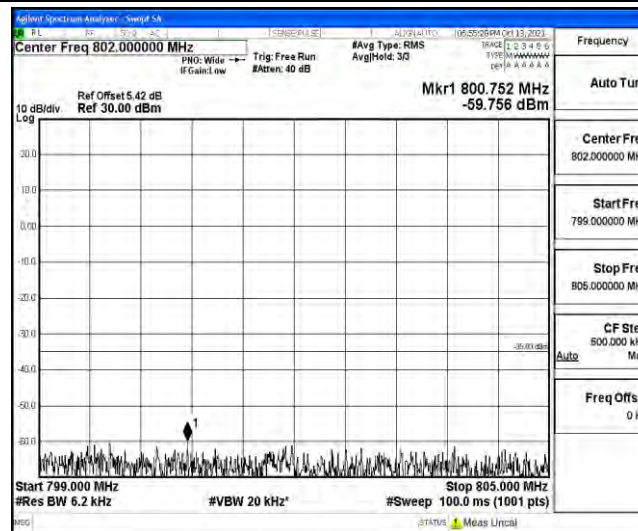
Band14-10MHz-16QAM-23330-Range5:769~775MHz



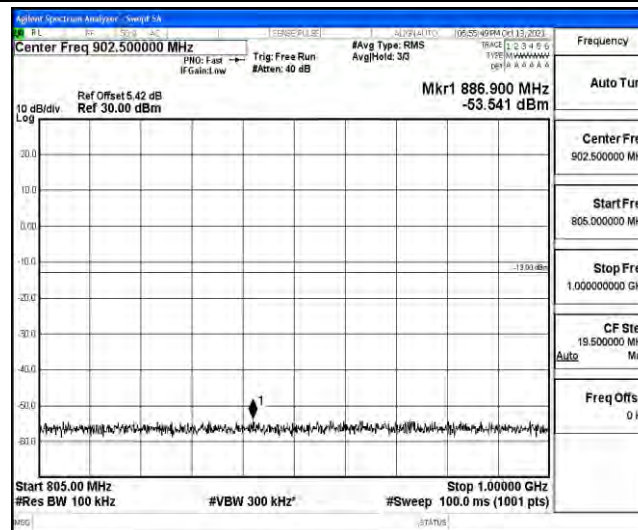
Band14-10MHz-16QAM-23330-Range7:775~788MHz



Band14-10MHz-16QAM-23330-Range6:799~805MHz



Band14-10MHz-16QAM-23330-Range8:805~1000MHz



Band14-10MHz-16QAM-23330-Range9:1000~10000MHz



Band14-10MHz-16QAM-23330-Range4:1000~10000MHz

