



Appendix A: Average Output Power Data

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	21.52	PASS
		1	12	21.51	PASS
		1	24	21.49	PASS
		12	0	20.54	PASS
		12	6	20.55	PASS
		12	13	20.54	PASS
		25	0	20.56	PASS
	MCH	1	0	21.45	PASS
		1	12	21.55	PASS
		1	24	21.53	PASS
		12	0	20.58	PASS
		12	6	20.62	PASS
		12	13	20.62	PASS
		25	0	20.60	PASS
	HCH	1	0	21.49	PASS
		1	12	21.52	PASS
		1	24	21.53	PASS
		12	0	20.56	PASS
		12	6	20.59	PASS
		12	13	20.57	PASS
		25	0	20.59	PASS
16QAM	LCH	1	0	20.84	PASS
		1	12	20.81	PASS
		1	24	20.80	PASS
		12	0	19.68	PASS
		12	6	19.65	PASS
		12	13	19.67	PASS
		25	0	19.65	PASS
	MCH	1	0	20.84	PASS
		1	12	20.88	PASS
		1	24	20.88	PASS
		12	0	19.71	PASS
		12	6	19.75	PASS
		12	13	19.74	PASS

	HCH	25	0	19.66	PASS
		1	0	20.89	PASS
		1	12	20.85	PASS
		1	24	20.80	PASS
		12	0	19.69	PASS
		12	6	19.71	PASS
		12	13	19.68	PASS
		25	0	19.68	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	21.51	PASS
		1	24	21.47	PASS
		1	49	21.55	PASS
		25	0	20.52	PASS
		25	12	20.64	PASS
		25	25	20.63	PASS
		50	0	19.82	PASS
	MCH	1	0	21.49	PASS
		1	24	21.56	PASS
		1	49	21.54	PASS
		25	0	20.60	PASS
		25	12	20.66	PASS
		25	25	20.61	PASS
		50	0	20.59	PASS
	HCH	1	0	21.44	PASS
		1	24	21.55	PASS
		1	49	21.55	PASS
		25	0	20.59	PASS
		25	12	20.63	PASS
		25	25	20.60	PASS
		50	0	20.59	PASS
16QAM	LCH	1	0	20.83	PASS
		1	24	20.82	PASS
		1	49	20.86	PASS
		25	0	19.61	PASS
		25	12	19.69	PASS
		25	25	19.70	PASS
		50	0	18.88	PASS
	MCH	1	0	20.82	PASS



		1	24	20.90	PASS
		1	49	20.84	PASS
		25	0	19.67	PASS
		25	12	19.72	PASS
		25	25	19.70	PASS
		50	0	19.65	PASS
	HCH	1	0	20.75	PASS
		1	24	20.90	PASS
		1	49	20.78	PASS
		25	0	19.68	PASS
		25	12	19.70	PASS
		25	25	19.69	PASS
		50	0	19.65	PASS

Appendix B: Peak-to-Average Ratio

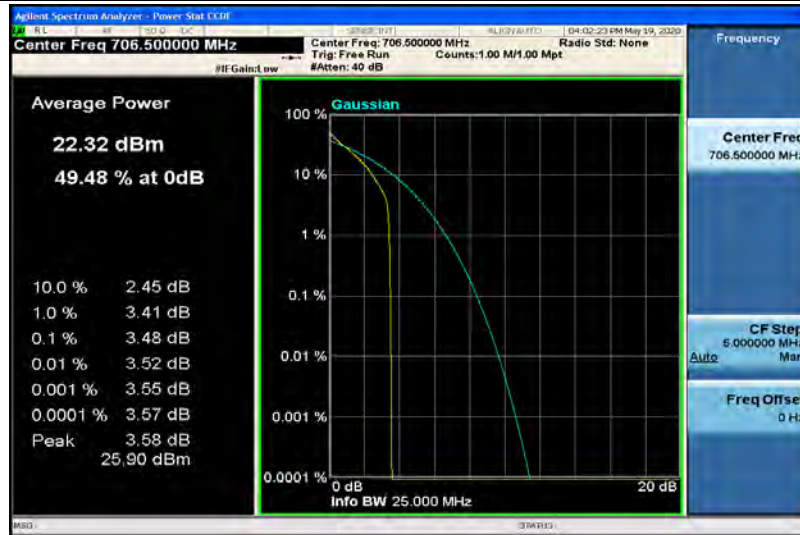
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	3.48	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	3.60	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	3.56	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	4.87	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.21	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.08	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	3.44	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	3.47	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	3.50	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	4.89	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	4.98	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.09	13	PASS

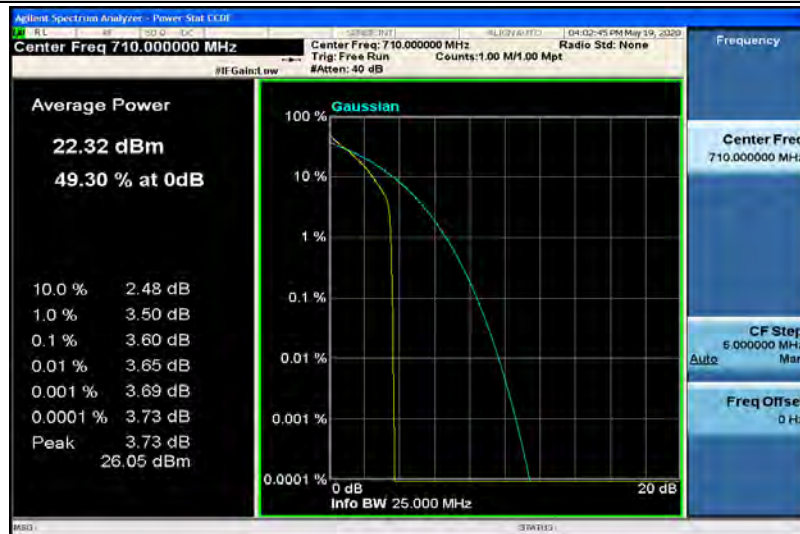


Test Graphs

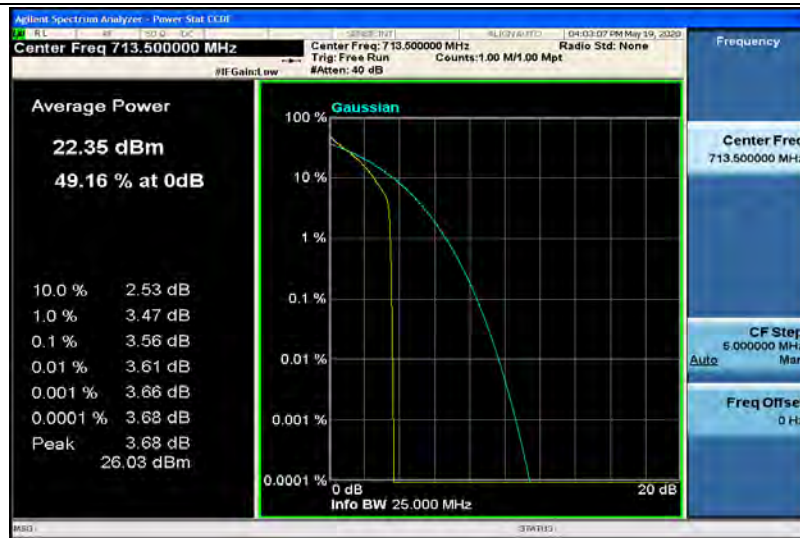
Band17-5MHz-QPSK-23755-1RB#0



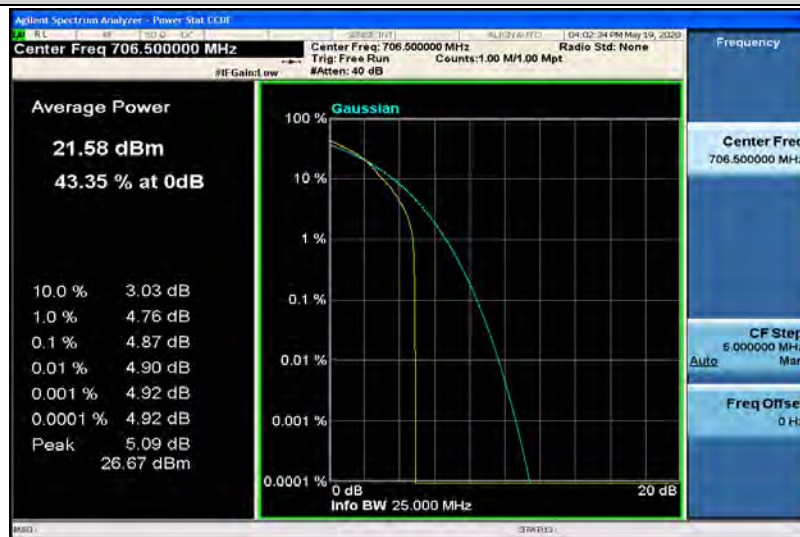
Band17-5MHz-QPSK-23790-1RB#0



Band17-5MHz-QPSK-23825-1RB#0



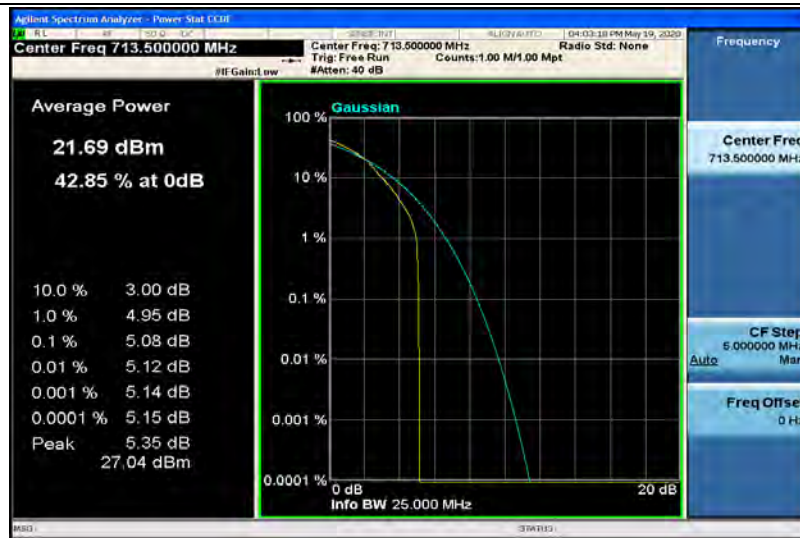
Band17-5MHz-16QAM-23755-1RB#0



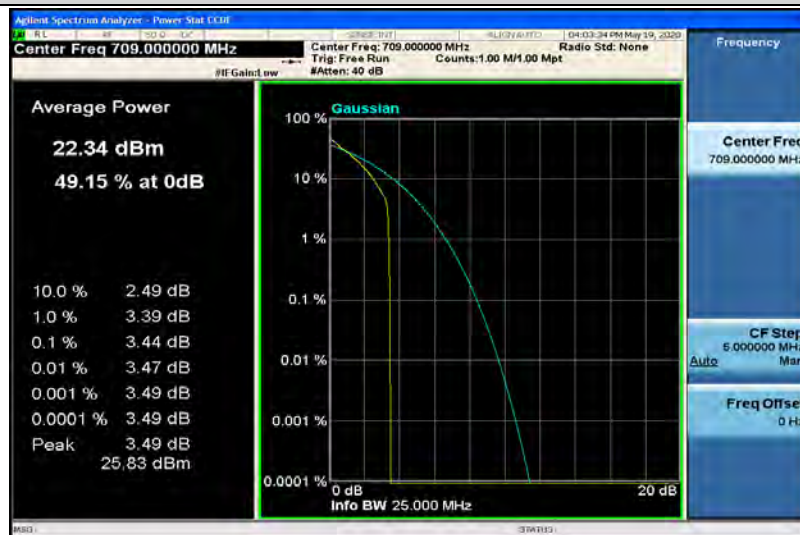
Band17-5MHz-16QAM-23790-1RB#0



Band17-5MHz-16QAM-23825-1RB#0



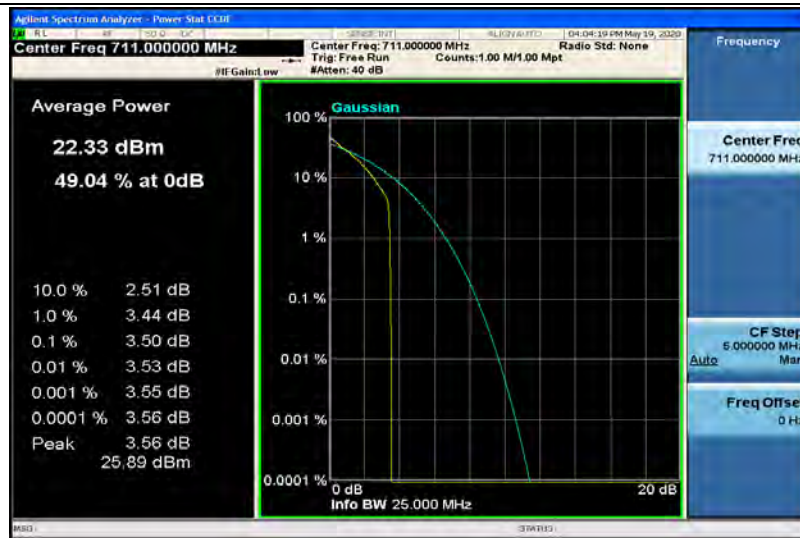
Band17-10MHz-QPSK-23780-1RB#0



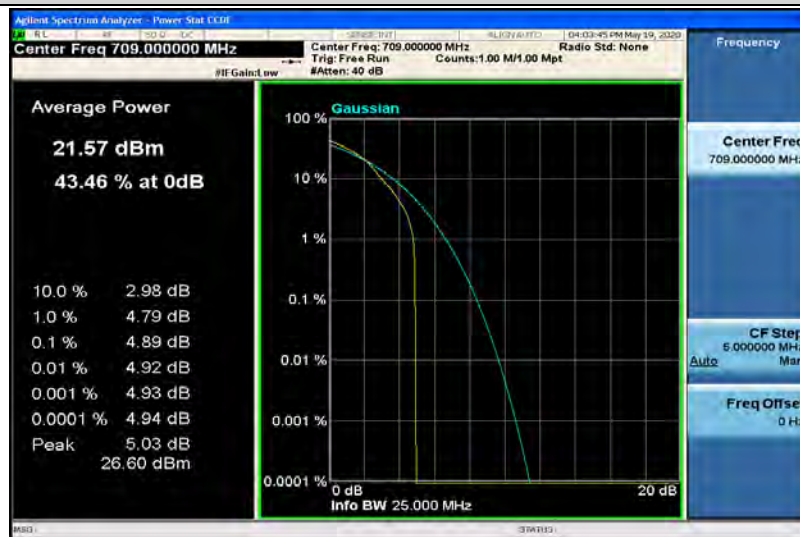
Band17-10MHz-QPSK-23790-1RB#0



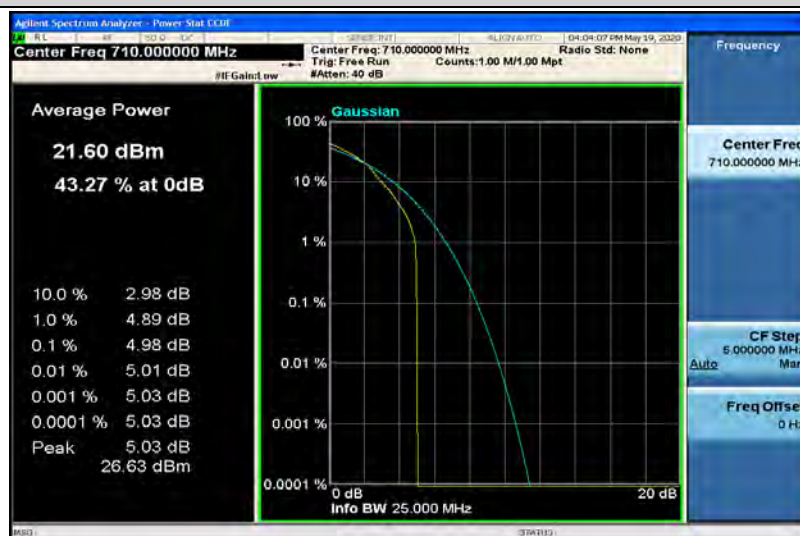
Band17-10MHz-QPSK-23800-1RB#0



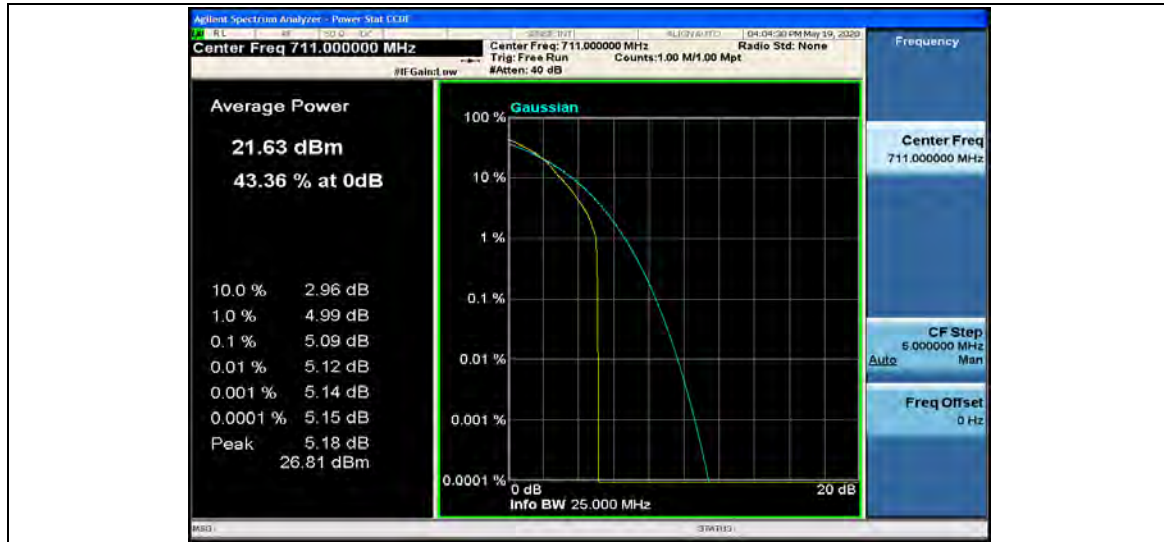
Band17-10MHz-16QAM-23780-1RB#0



Band17-10MHz-16QAM-23790-1RB#0



Band17-10MHz-16QAM-23800-1RB#0



Appendix C: 26dB Bandwidth and Occupied Bandwidth

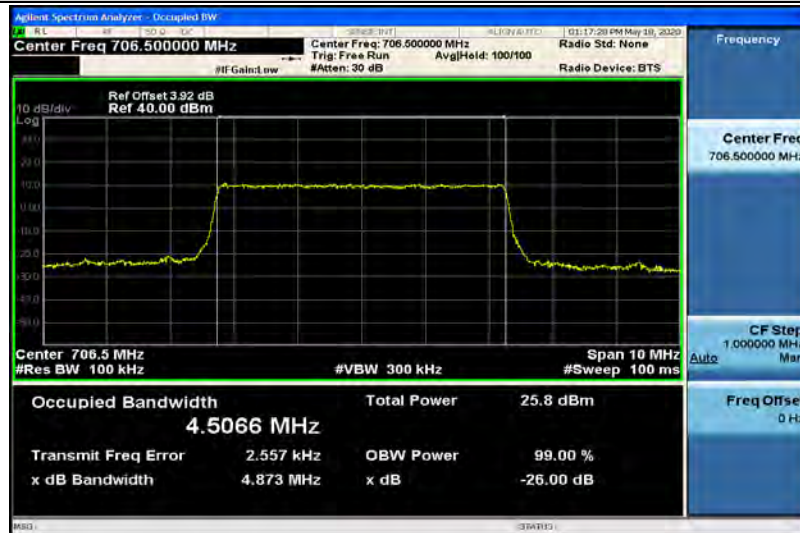
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5066	4.873	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.4988	4.849	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.4941	4.861	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5225	4.915	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5129	4.854	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5116	4.870	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9757	9.551	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9616	9.548	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9413	9.533	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9902	9.539	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9622	9.523	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9607	9.536	PASS

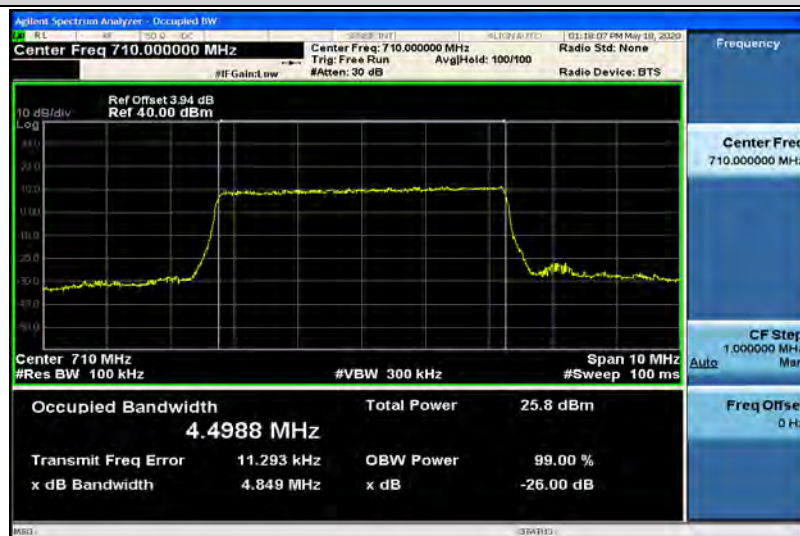


Test Graphs

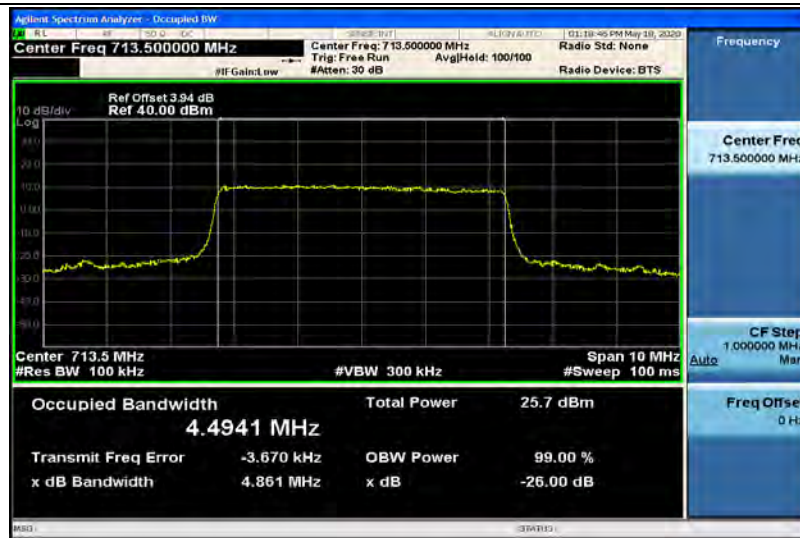
Band17-5MHz-QPSK-23755-25RB#0-4.5066



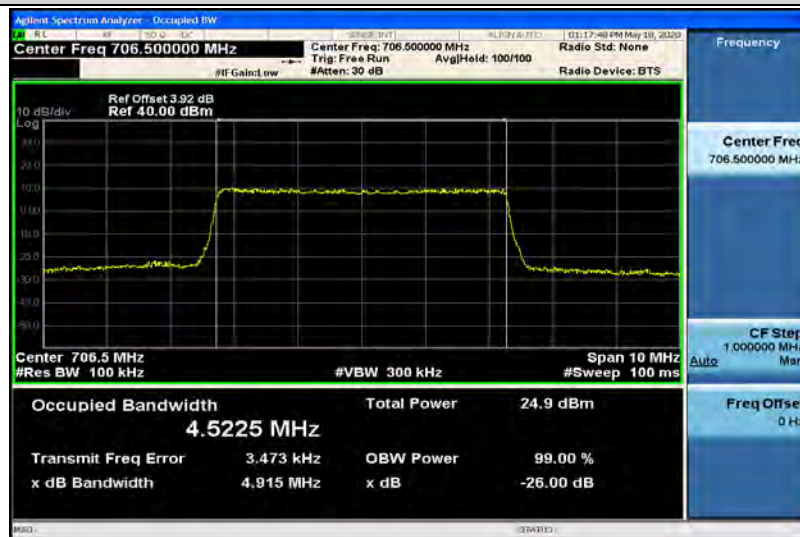
Band17-5MHz-QPSK-23790-25RB#0-4.4988



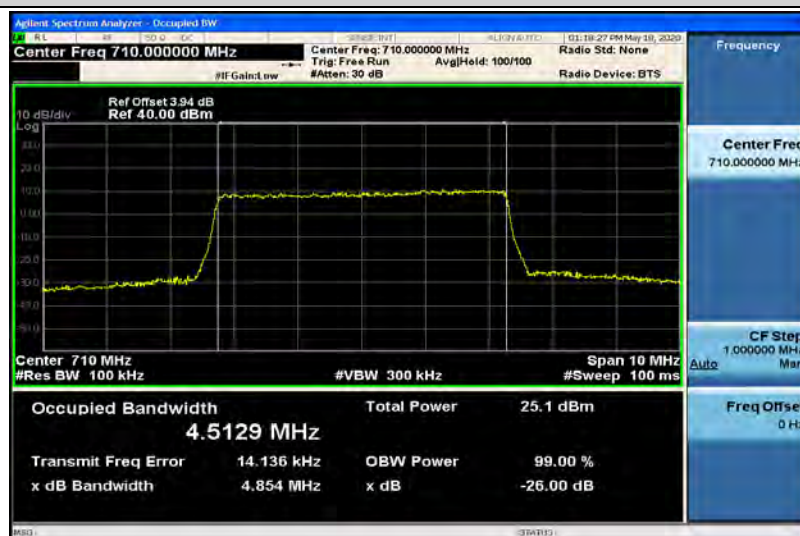
Band17-5MHz-QPSK-23825-25RB#0-4.4941



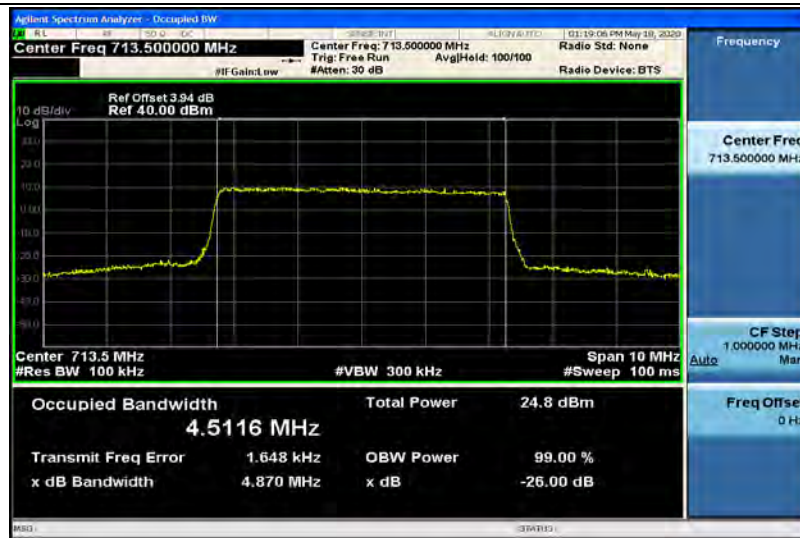
Band17-5MHz-16QAM-23755-25RB#0-4.5225



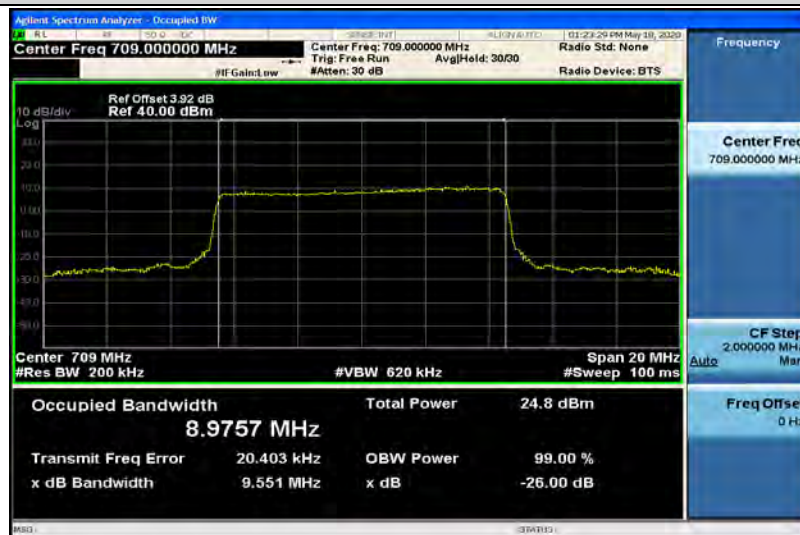
Band17-5MHz-16QAM-23790-25RB#0-4.5129



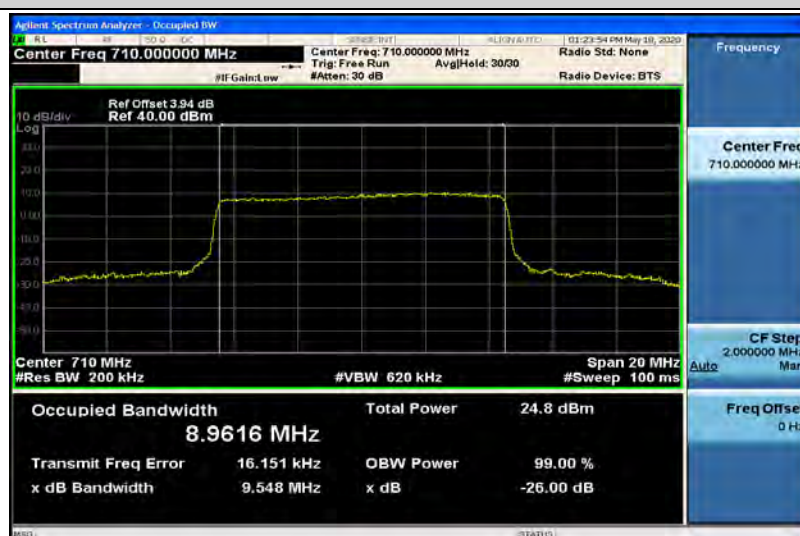
Band17-5MHz-16QAM-23825-25RB#0-4.5116



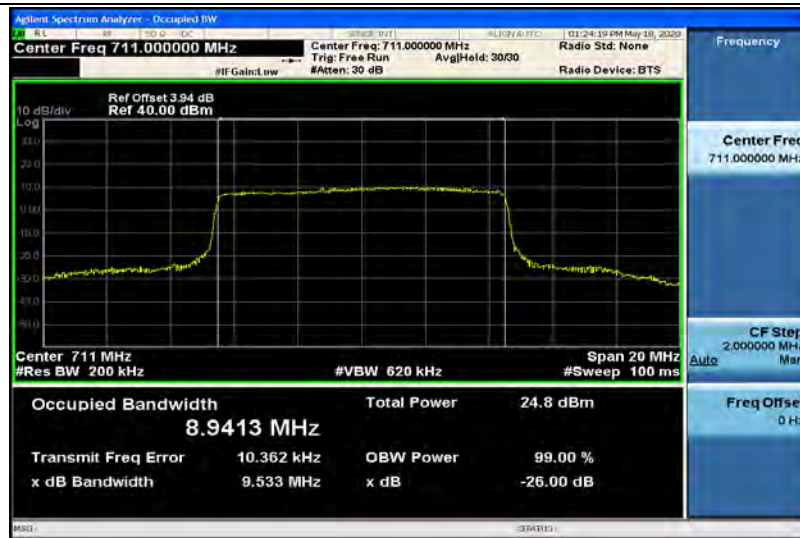
Band17-10MHz-QPSK-23780-50RB#0-8.9757



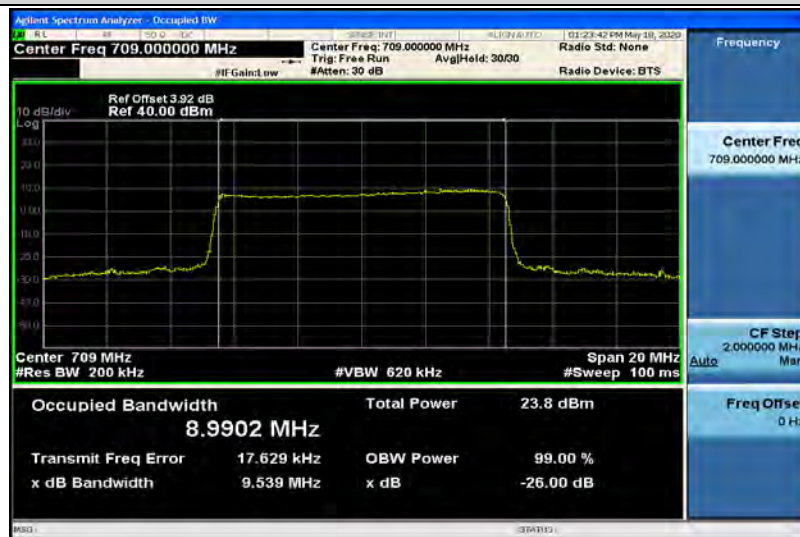
Band17-10MHz-QPSK-23790-50RB#0-8.9616



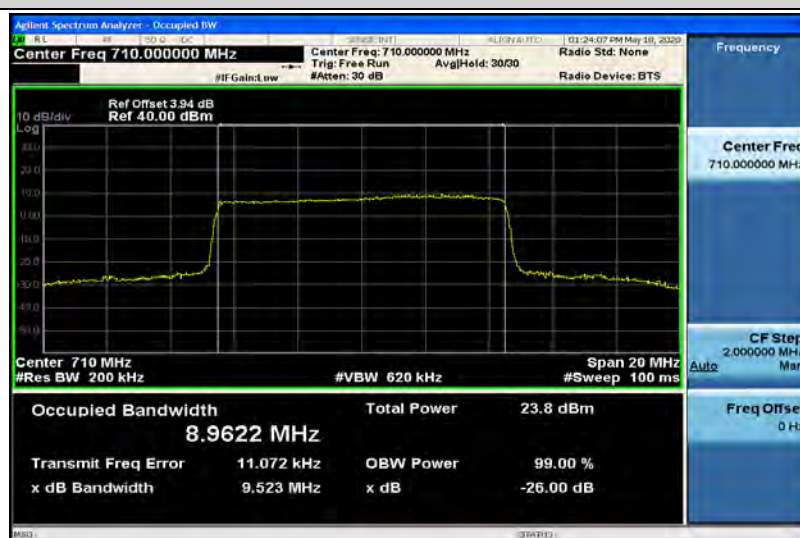
Band17-10MHz-QPSK-23800-50RB#0-8.9413



Band17-10MHz-16QAM-23780-50RB#0-8.9902



Band17-10MHz-16QAM-23790-50RB#0-8.9622



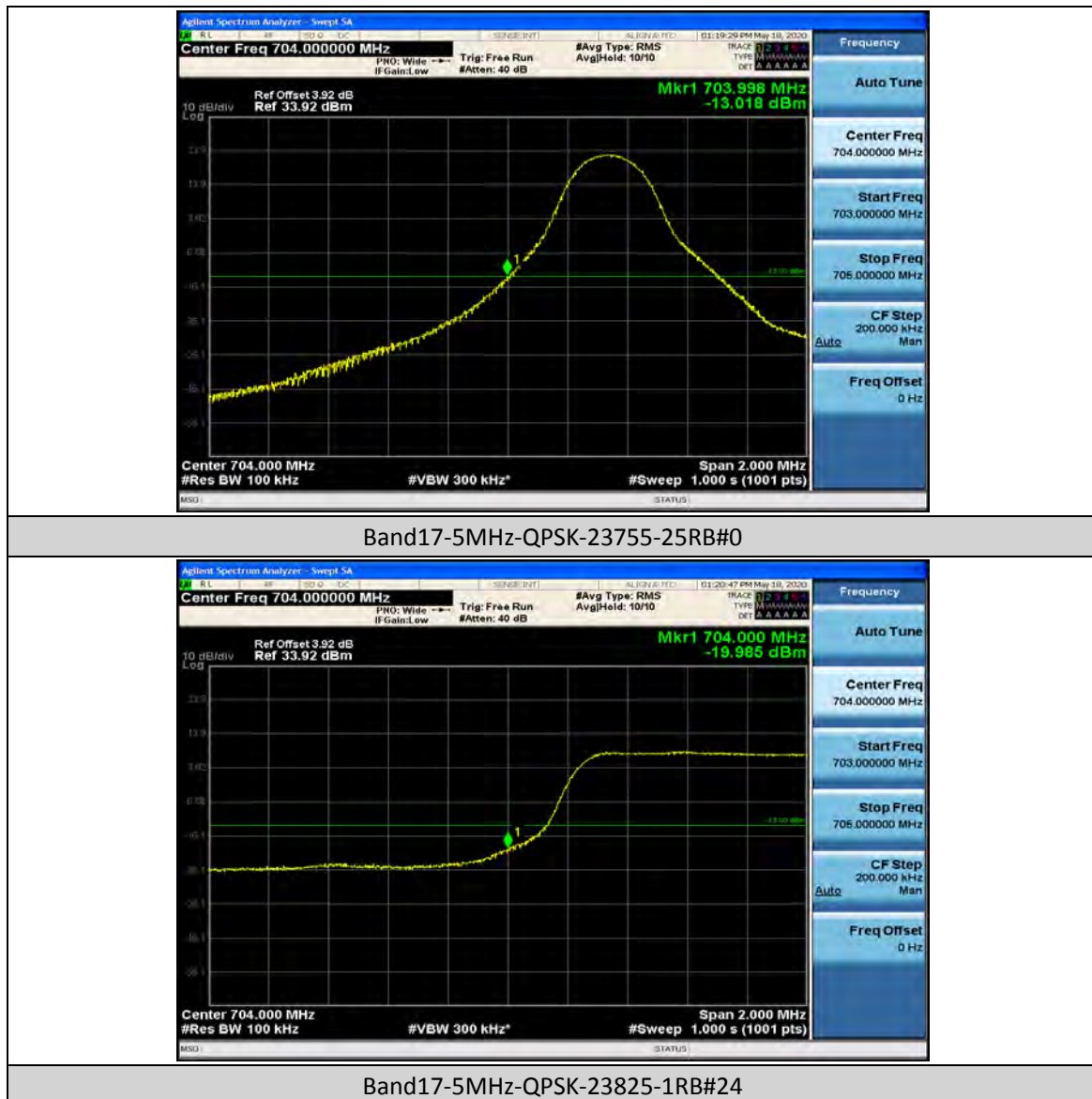
Band17-10MHz-16QAM-23800-50RB#0-8.9607

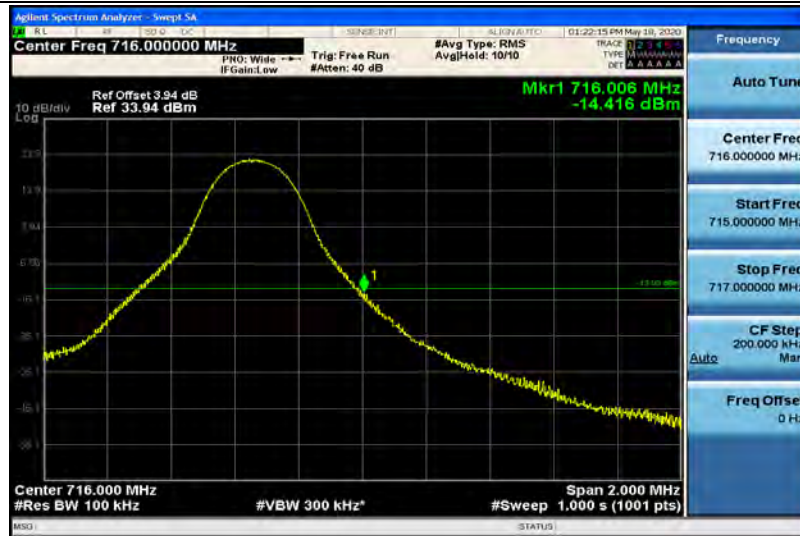




Appendix D: Band Edge

Test Graphs

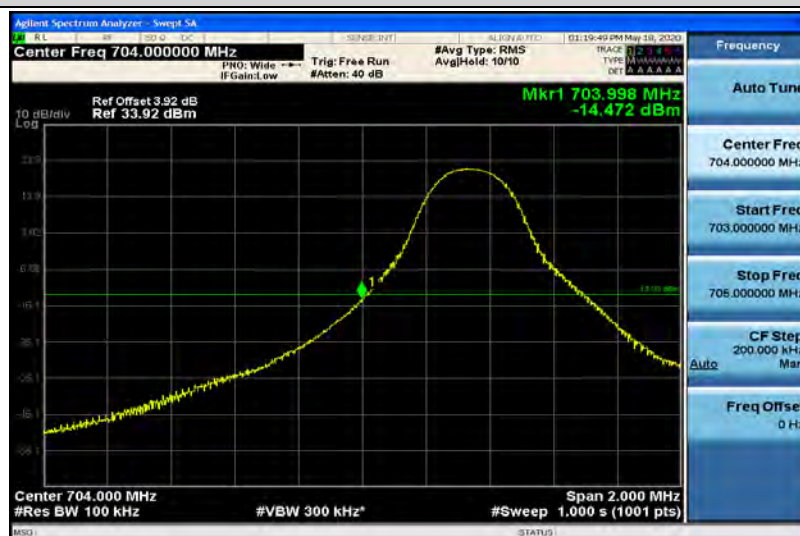




Band17-5MHz-QPSK-23825-25RB#0



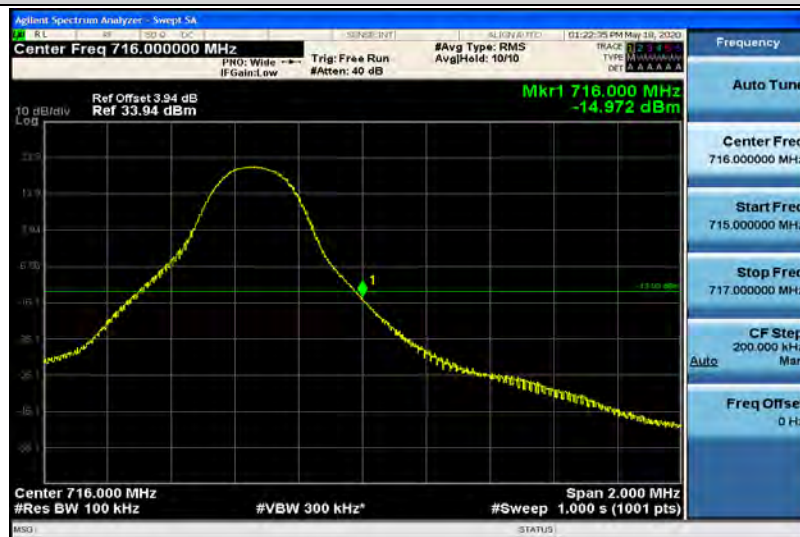
Band17-5MHz-16QAM-23755-1RB#0



Band17-5MHz-16QAM-23755-25RB#0



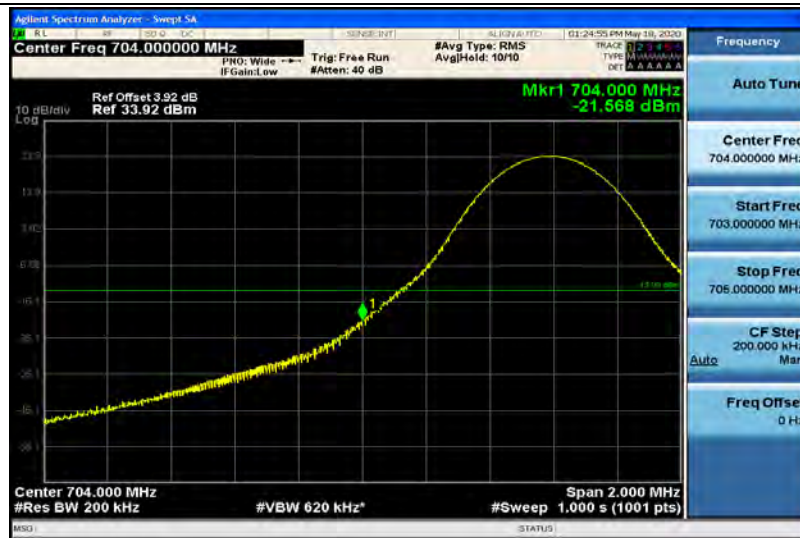
Band17-5MHz-16QAM-23825-1RB#24



Band17-5MHz-16QAM-23825-25RB#0



Band17-10MHz-QPSK-23780-1RB#0



Band17-10MHz-QPSK-23780-50RB#0



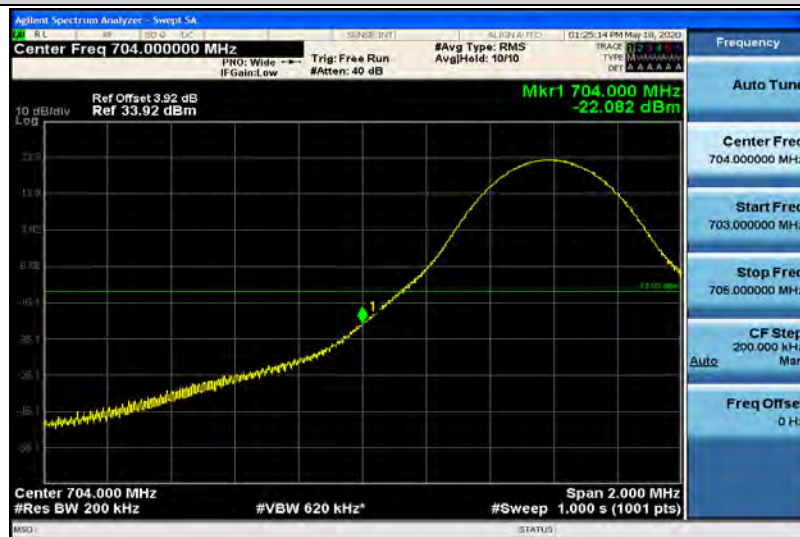
Band17-10MHz-QPSK-23800-1RB#49



Band17-10MHz-QPSK-23800-50RB#0



Band17-10MHz-16QAM-23780-1RB#0



Band17-10MHz-16QAM-23780-50RB#0



Band17-10MHz-16QAM-23800-1RB#49



Band17-10MHz-16QAM-23800-50RB#0



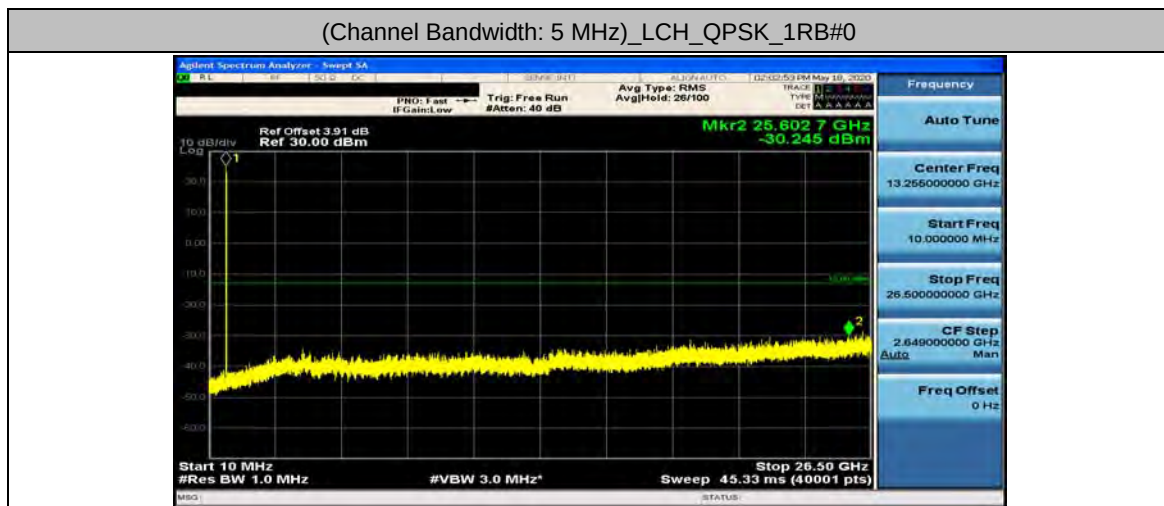


Appendix E: Conducted Spurious Emission

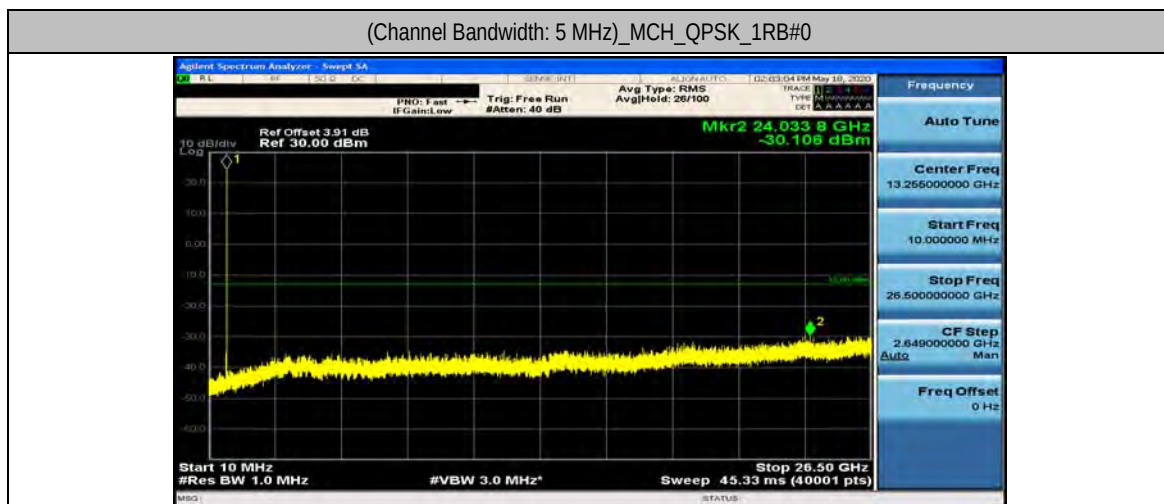
Test Graphs

Channel Bandwidth: 5 MHz

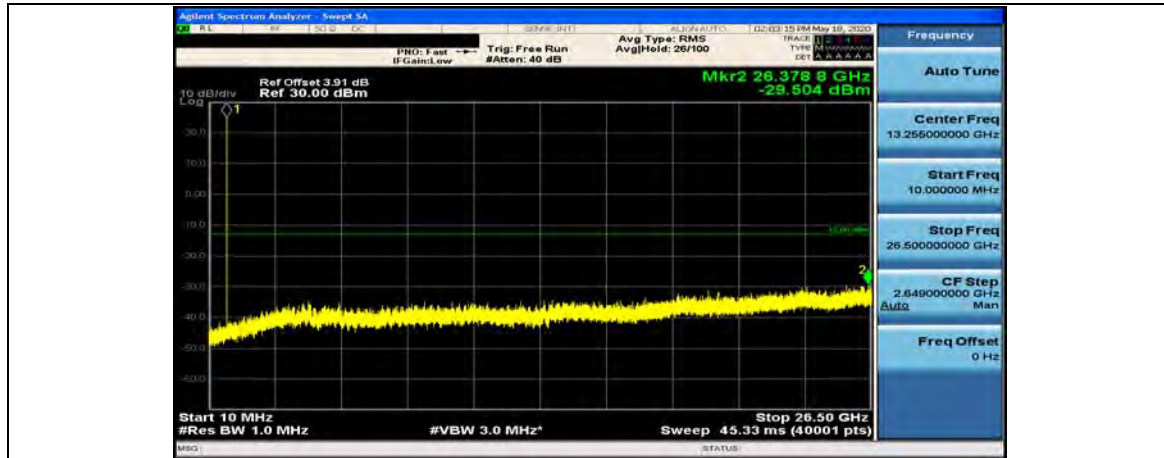
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

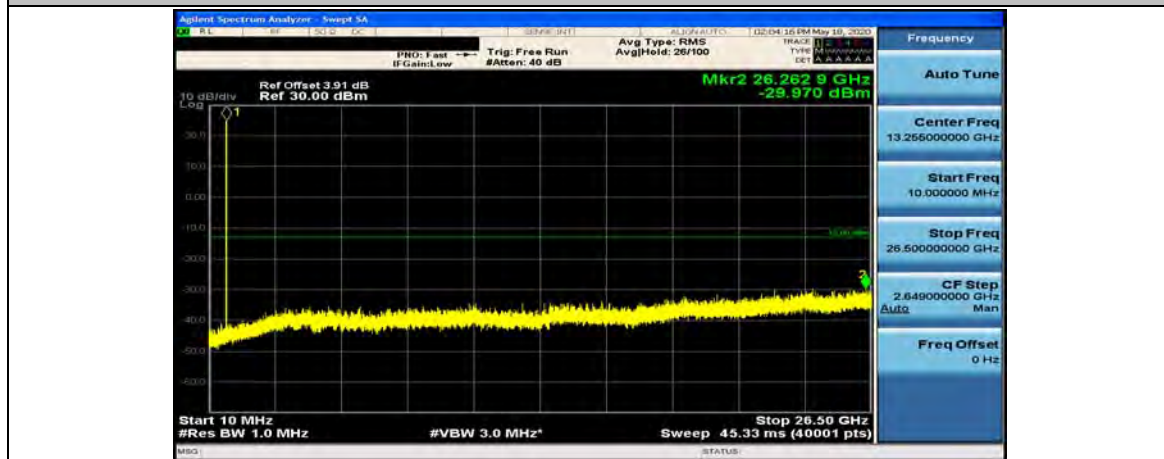


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

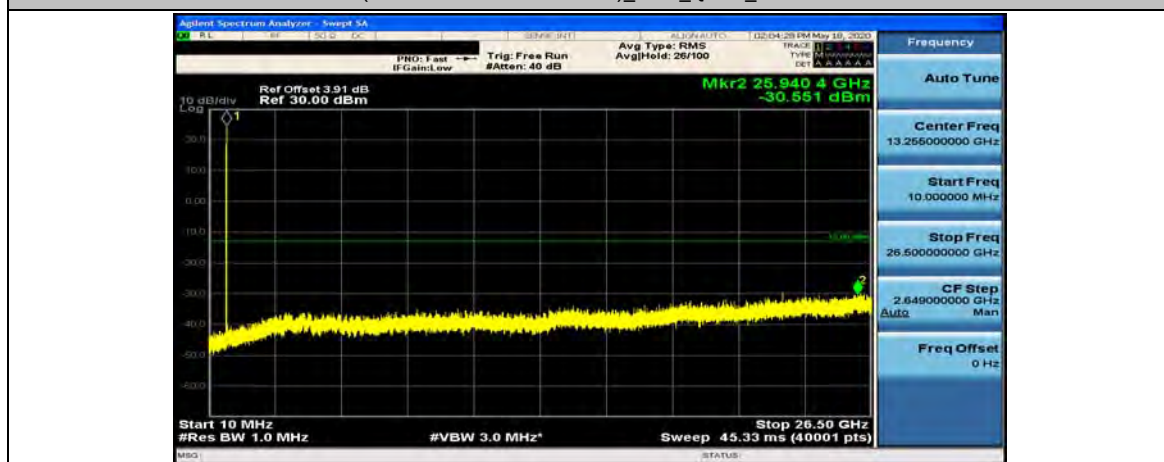


Channel Bandwidth: 10 MHz

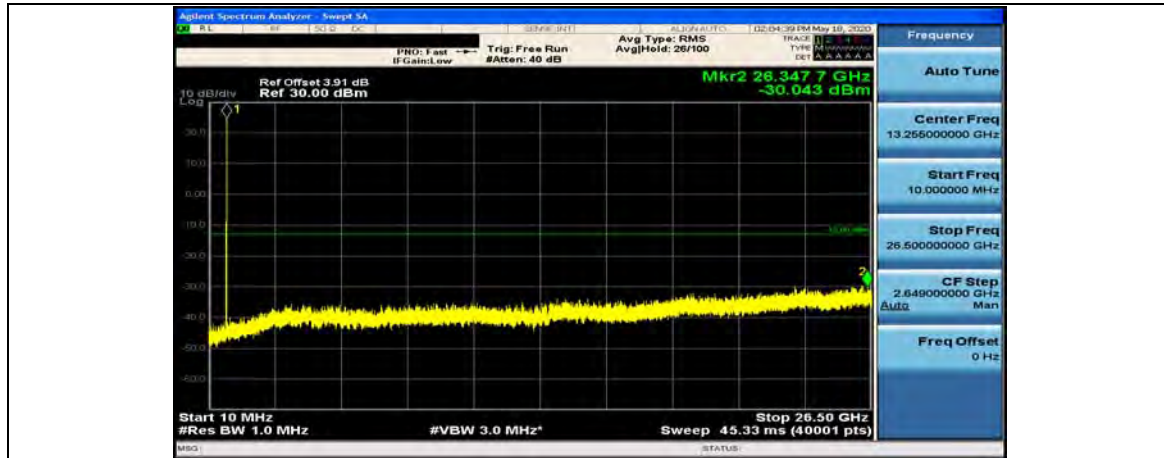
(Channel Bandwidth: 10 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 10 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 10 MHz)_HCH_QPSK_1RB#0



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	-1.00	-0.001415	± 2.5	PASS
		VN	TN	0.00	0.000000	± 2.5	PASS
		VH	TN	-0.10	-0.000142	± 2.5	PASS
	MCH	VL	TN	2.90	0.004085	± 2.5	PASS
		VN	TN	3.40	0.004789	± 2.5	PASS
		VH	TN	1.80	0.002535	± 2.5	PASS
	HCH	VL	TN	2.90	0.004064	± 2.5	PASS
		VN	TN	-4.80	-0.006727	± 2.5	PASS
		VH	TN	-6.70	-0.009390	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-4.70	-0.006653	± 2.5	PASS
		VN	-20	0.60	0.000849	± 2.5	PASS
		VN	-10	-3.50	-0.004954	± 2.5	PASS
		VN	0	2.80	0.003963	± 2.5	PASS
		VN	10	1.10	0.001557	± 2.5	PASS
		VN	20	0.20	0.000283	± 2.5	PASS
		VN	30	1.00	0.001415	± 2.5	PASS
		VN	40	2.50	0.003539	± 2.5	PASS
		VN	50	-2.60	-0.003680	± 2.5	PASS
	MCH	VN	-30	0.00	0.000000	± 2.5	PASS
		VN	-20	2.50	0.003521	± 2.5	PASS
		VN	-10	6.50	0.009155	± 2.5	PASS
		VN	0	9.70	0.013662	± 2.5	PASS
		VN	10	4.80	0.006761	± 2.5	PASS
		VN	20	0.00	0.000000	± 2.5	PASS
		VN	30	-0.80	-0.001127	± 2.5	PASS
		VN	40	-2.30	-0.003239	± 2.5	PASS
		VN	50	3.30	0.004648	± 2.5	PASS
	HCH	VN	-30	-5.80	-0.008129	± 2.5	PASS
		VN	-20	-5.00	-0.007008	± 2.5	PASS
		VN	-10	-4.00	-0.005606	± 2.5	PASS

		VN	0	-3.50	-0.004905	± 2.5	PASS
		VN	10	-2.50	-0.003504	± 2.5	PASS
		VN	20	-2.30	-0.003224	± 2.5	PASS
		VN	30	-1.60	-0.002242	± 2.5	PASS
		VN	40	0.40	0.000561	± 2.5	PASS
		VN	50	0.90	0.001261	± 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	-2.40	-0.003385	± 2.5	PASS
		VN	TN	-1.10	-0.001551	± 2.5	PASS
		VH	TN	-3.10	-0.004372	± 2.5	PASS
	MCH	VL	TN	6.50	0.009155	± 2.5	PASS
		VN	TN	5.90	0.008310	± 2.5	PASS
		VH	TN	0.00	0.000000	± 2.5	PASS
	HCH	VL	TN	2.90	0.004079	± 2.5	PASS
		VN	TN	-1.50	-0.002110	± 2.5	PASS
		VH	TN	-1.40	-0.001969	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-2.80	-0.003949	± 2.5	PASS
		VN	-20	-8.60	-0.012130	± 2.5	PASS
		VN	-10	-4.20	-0.005924	± 2.5	PASS
		VN	0	0.70	0.000987	± 2.5	PASS
		VN	10	-2.90	-0.004090	± 2.5	PASS
		VN	20	-5.50	-0.007757	± 2.5	PASS
		VN	30	-6.60	-0.009309	± 2.5	PASS
		VN	40	-3.10	-0.004372	± 2.5	PASS
		VN	50	-2.40	-0.003385	± 2.5	PASS
	MCH	VN	-30	2.80	0.003944	± 2.5	PASS
		VN	-20	6.00	0.008451	± 2.5	PASS
		VN	-10	-0.30	-0.000423	± 2.5	PASS
		VN	0	3.10	0.004366	± 2.5	PASS
		VN	10	6.90	0.009718	± 2.5	PASS
		VN	20	0.50	0.000704	± 2.5	PASS
		VN	30	4.30	0.006056	± 2.5	PASS
		VN	40	-0.70	-0.000986	± 2.5	PASS
		VN	50	3.40	0.004789	± 2.5	PASS
	HCH	VN	-30	4.30	0.006048	± 2.5	PASS
		VN	-20	0.20	0.000281	± 2.5	PASS
		VN	-10	-4.50	-0.006329	± 2.5	PASS
		VN	0	1.30	0.001828	± 2.5	PASS
		VN	10	-1.60	-0.002250	± 2.5	PASS
		VN	20	3.90	0.005485	± 2.5	PASS



		VN	30	0.70	0.000985	± 2.5	PASS
		VN	40	-2.30	-0.003235	± 2.5	PASS
		VN	50	3.80	0.005345	± 2.5	PASS