Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Verdict
				QPSK	16QAM	
Band12	1.4MHz	23017	1RB#0	24.12	22.75	PASS
Band12	1.4MHz	23017	1RB#2	23.29	21.89	PASS
Band12	1.4MHz	23017	1RB#5	22.51	21.31	PASS
Band12	1.4MHz	23017	3RB#0	23.53	22.41	PASS
Band12	1.4MHz	23017	3RB#1	24.17	23.13	PASS
Band12	1.4MHz	23017	3RB#3	24.24	23.14	PASS
Band12	1.4MHz	23017	6RB#0	22.92	21.79	PASS
Band12	1.4MHz	23095	1RB#0	24.39	22.97	PASS
Band12	1.4MHz	23095	1RB#2	23.04	21.84	PASS
Band12	1.4MHz	23095	1RB#5	23.91	22.42	PASS
Band12	1.4MHz	23095	3RB#0	23.64	22.30	PASS
Band12	1.4MHz	23095	3RB#1	23.47	22.33	PASS
Band12	1.4MHz	23095	3RB#3	24.30	23.10	PASS
Band12	1.4MHz	23095	6RB#0	23.53	22.10	PASS
Band12	1.4MHz	23173	1RB#0	24.07	22.81	PASS
Band12	1.4MHz	23173	1RB#2	23.96	22.72	PASS
Band12	1.4MHz	23173	1RB#5	23.63	22.42	PASS
Band12	1.4MHz	23173	3RB#0	23.32	22.23	PASS
Band12	1.4MHz	23173	3RB#1	24.06	23.01	PASS
Band12	1.4MHz	23173	3RB#3	23.53	22.28	PASS
Band12	1.4MHz	23173	6RB#0	22.59	21.58	PASS
Band12	3MHz	23025	1RB#0	22.90	21.84	PASS
Band12	3MHz	23025	1RB#8	22.50	21.25	PASS
Band12	3MHz	23025	1RB#14	**24.40**	**23.27**	PASS
Band12	3MHz	23025	8RB#0	22.68	21.26	PASS
Band12	3MHz	23025	8RB#4	24.08	22.86	PASS
Band12	3MHz	23025	8RB#7	23.44	22.03	PASS
Band12	3MHz	23025	15RB#0	24.22	23.00	PASS
Band12	3MHz	23095	1RB#0	23.28	22.02	PASS
Band12	3MHz	23095	1RB#8	23.32	22.13	PASS
Band12	3MHz	23095	1RB#14	22.97	21.79	PASS
Band12	3MHz	23095	8RB#0	24.03	22.58	PASS
Band12	3MHz	23095	8RB#4	23.65	22.46	PASS
Band12	3MHz	23095	8RB#7	23.03	22.03	PASS
Band12	3MHz	23095	15RB#0	23.73	22.63	PASS
Band12	3MHz	23165	1RB#0	22.88	21.84	PASS
Band12	3MHz	23165	1RB#8	23.98	22.94	PASS

Band12	3MHz	23165	1RB#14	24.17	22.90	PASS
Band12	3MHz	23165	8RB#0	23.11	21.95	PASS
Band12	3MHz	23165	8RB#4	23.86	22.41	PASS
Band12	3MHz	23165	8RB#7	22.84	21.40	PASS
Band12	3MHz	23165	15RB#0	23.27	22.16	PASS
Band12	5MHz	23035	1RB#0	24.39	23.09	PASS
Band12	5MHz	23035	1RB#12	23.04	21.54	PASS
Band12	5MHz	23035	1RB#24	22.71	21.60	PASS
Band12	5MHz	23035	12RB#0	23.20	22.17	PASS
Band12	5MHz	23035	12RB#6	24.24	23.01	PASS
Band12	5MHz	23035	12RB#13	23.03	21.85	PASS
Band12	5MHz	23035	25RB#0	24.23	22.94	PASS
Band12	5MHz	23095	1RB#0	23.33	22.23	PASS
Band12	5MHz	23095	1RB#12	23.25	22.17	PASS
Band12	5MHz	23095	1RB#24	22.51	21.09	PASS
Band12	5MHz	23095	12RB#0	23.21	22.17	PASS
Band12	5MHz	23095	12RB#6	23.90	22.62	PASS
Band12	5MHz	23095	12RB#13	23.47	22.09	PASS
Band12	5MHz	23095	25RB#0	23.66	22.41	PASS
Band12	5MHz	23155	1RB#0	23.42	22.07	PASS
Band12	5MHz	23155	1RB#12	23.40	22.12	PASS
Band12	5MHz	23155	1RB#24	22.58	21.38	PASS
Band12	5MHz	23155	12RB#0	24.17	22.81	PASS
Band12	5MHz	23155	12RB#6	23.23	22.03	PASS
Band12	5MHz	23155	12RB#13	23.41	22.11	PASS
Band12	5MHz	23155	25RB#0	23.13	22.06	PASS
Band12	10MHz	23060	1RB#0	23.36	22.09	PASS
Band12	10MHz	23060	1RB#24	22.93	21.70	PASS
Band12	10MHz	23060	1RB#49	24.35	23.08	PASS
Band12	10MHz	23060	25RB#0	23.42	21.92	PASS
Band12	10MHz	23060	25RB#12	23.12	21.64	PASS
Band12	10MHz	23060	25RB#25	22.59	21.29	PASS
Band12	10MHz	23060	50RB#0	24.00	22.56	PASS
Band12	10MHz	23095	1RB#0	23.49	22.21	PASS
Band12	10MHz	23095	1RB#24	22.89	21.88	PASS
Band12	10MHz	23095	1RB#49	23.36	22.31	PASS
Band12	10MHz	23095	25RB#0	24.29	22.80	PASS
Band12	10MHz	23095	25RB#12	23.29	22.06	PASS
Band12	10MHz	23095	25RB#25	22.78	21.40	PASS
Band12	10MHz	23095	50RB#0	23.75	22.48	PASS
Band12	10MHz	23130	1RB#0	24.37	23.23	PASS
Band12	10MHz	23130	1RB#24	24.22	22.86	PASS
Band12	10MHz	23130	1RB#49	24.34	23.25	PASS

Band12	10MHz	23130	25RB#0	22.67	21.42	PASS
Band12	10MHz	23130	25RB#12	23.29	21.80	PASS
Band12	10MHz	23130	25RB#25	23.07	21.81	PASS
Band12	10MHz	23130	50RB#0	23.62	22.22	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

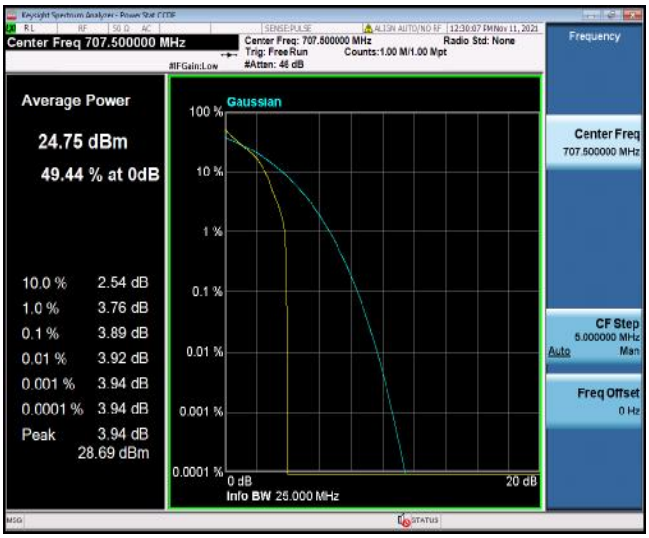
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.19	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	4.92	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	3.89	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	4.67	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3.49	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.18	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.25	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.85	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	4.97	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.55	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.53	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.10	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.41	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.46	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.05	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	4.19	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.25	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.12	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.24	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.31	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	4.96	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.08	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.11	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.03	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.16	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.14	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.03	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.78	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.07	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.58	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.06	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.07	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	4.78	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.66	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	4.93	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.52	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.14	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	4.92	13	PASS

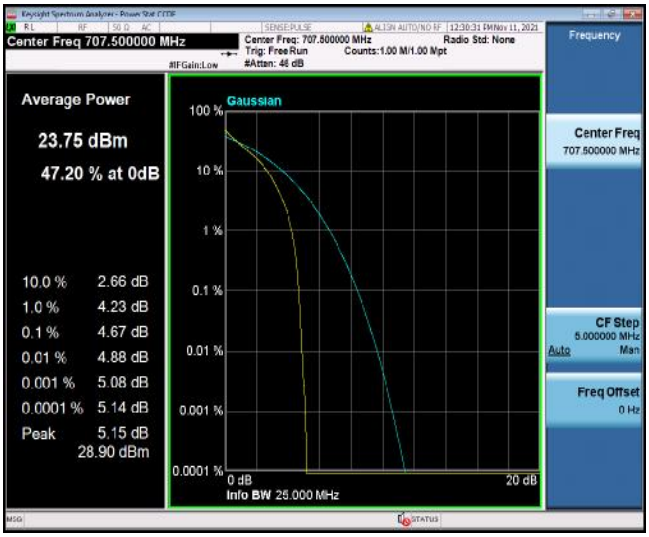
Band12	10MHz	QPSK	23095	1RB#0	4.02	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.89	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	3.71	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.86	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.81	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.03	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.76	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	4.59	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.74	13	PASS

Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0
Band12-1.4MHz-QPSK-23017-6RB#0
Band12-1.4MHz-QPSK-23095-1RB#0



Band12-1.4MHz-QPSK-23095-6RB#0



Band12-1.4MHz-QPSK-23173-1RB#0

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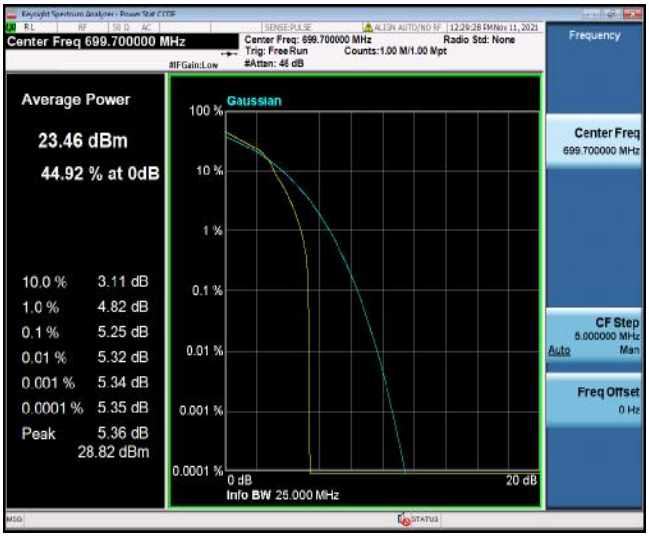
Band12-1.4MHz-16QAM-23017-1RB#0



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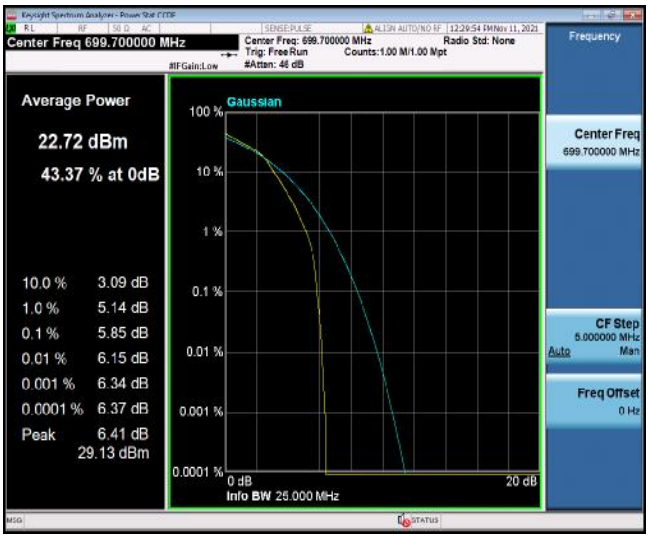

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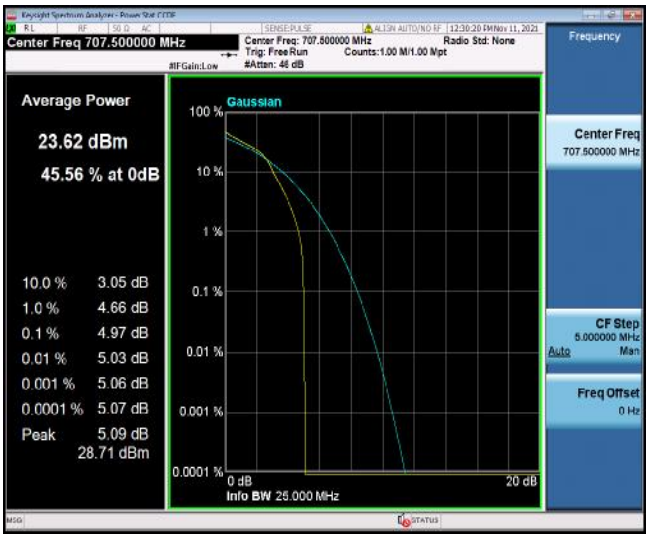

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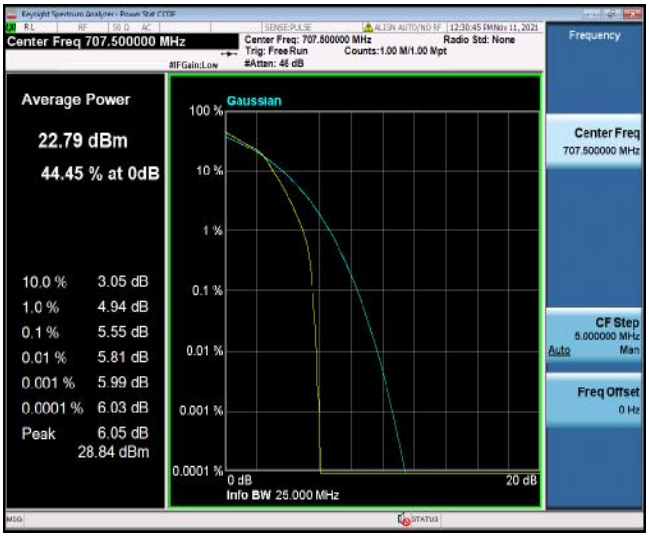

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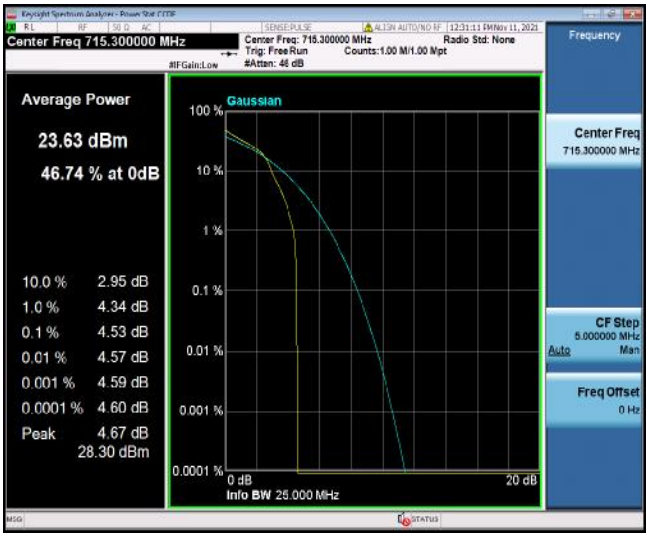

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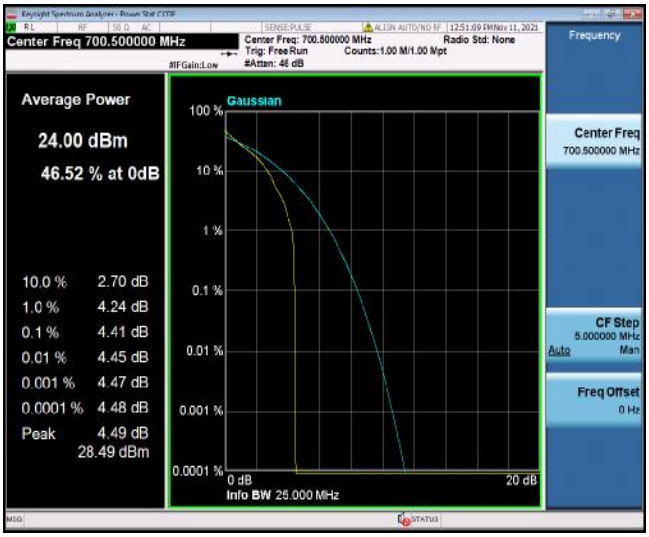
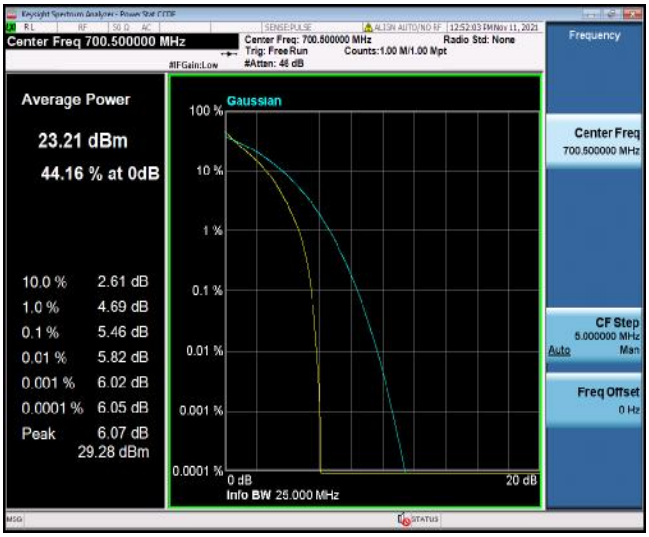
Band12-3MHz-QPSK-23025-1RB#0



Band12-3MHz-QPSK-23025-15RB#0



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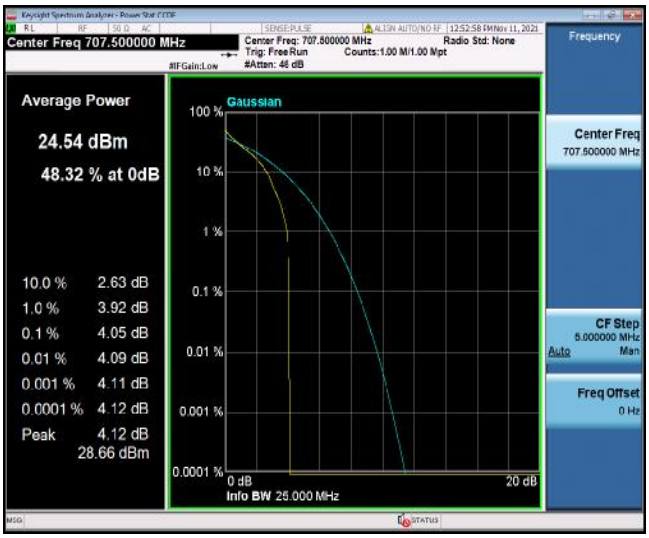
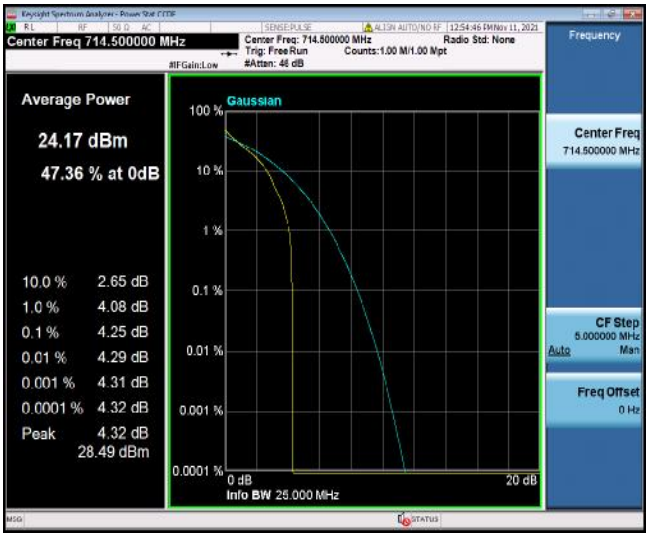


Band12-3MHz-QPSK-23095-15RB#0

Band12-3MHz-QPSK-23165-1RB#0



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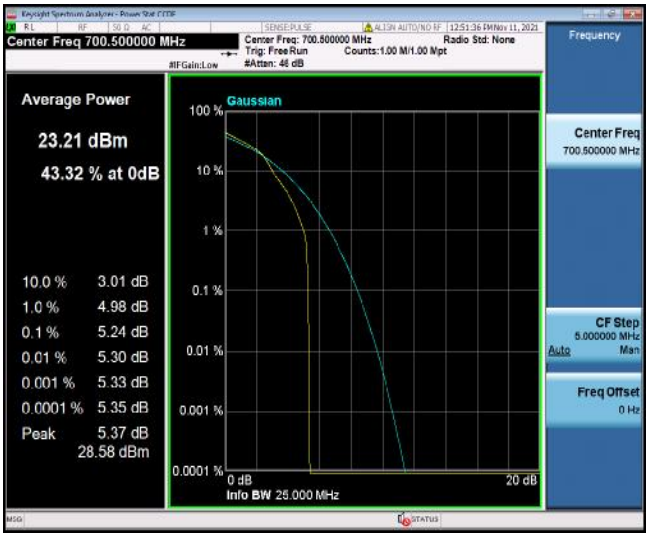
Band12-3MHz-16QAM-23025-1RB#0



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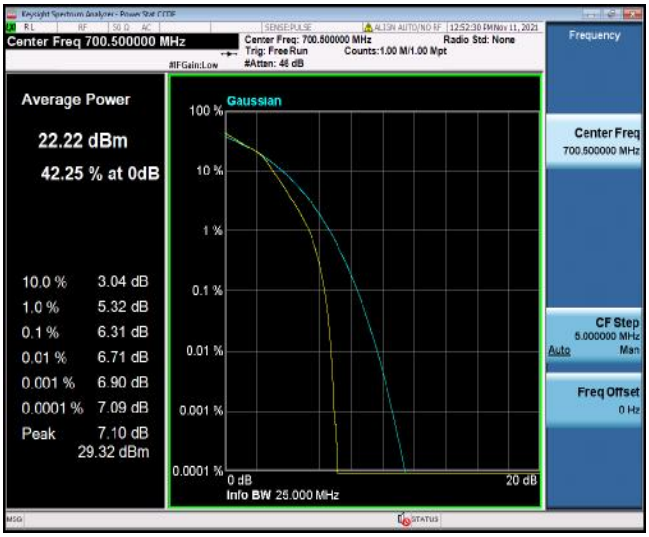
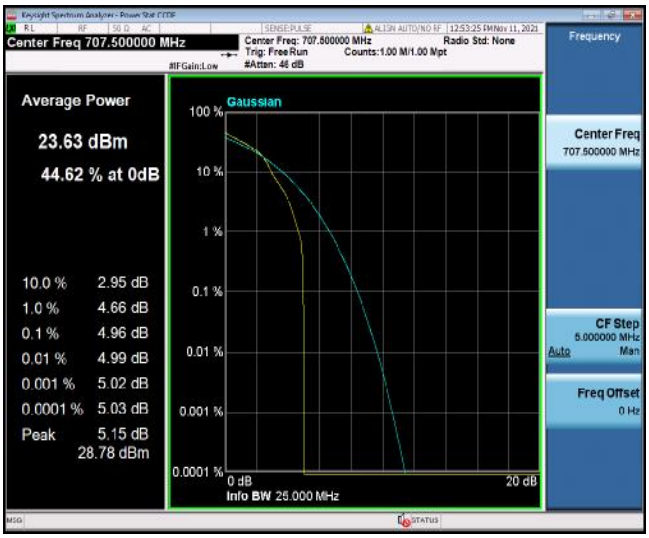
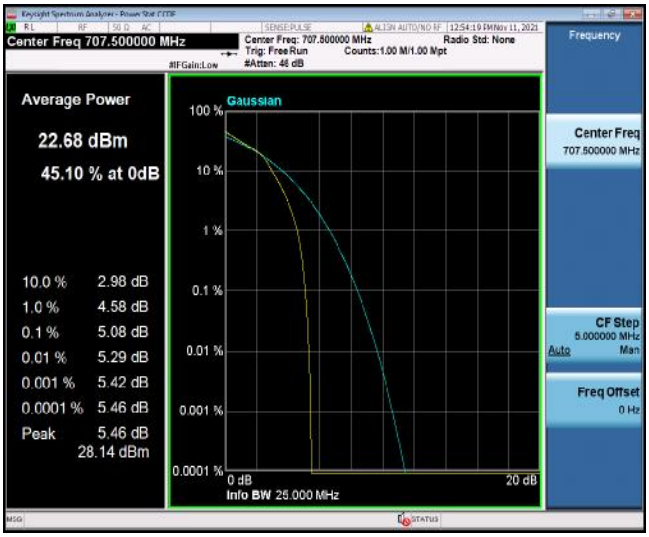


Band12-3MHz-16QAM-23095-1RB#0



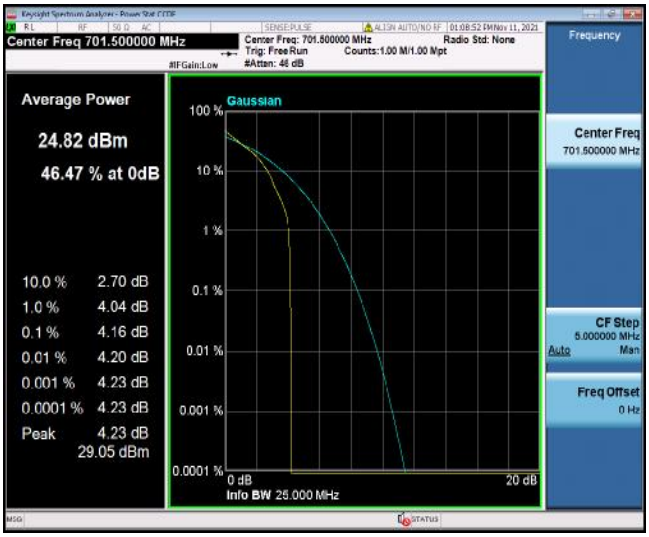
Band12-3MHz-16QAM-23095-15RB#0



Band12-3MHz-16QAM-23165-1RB#0

Band12-3MHz-16QAM-23165-15RB#0

Band12-5MHz-QPSK-23035-1RB#0



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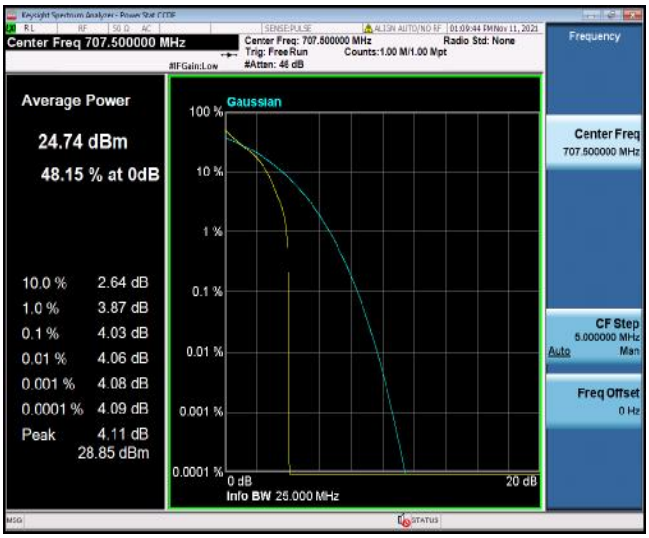
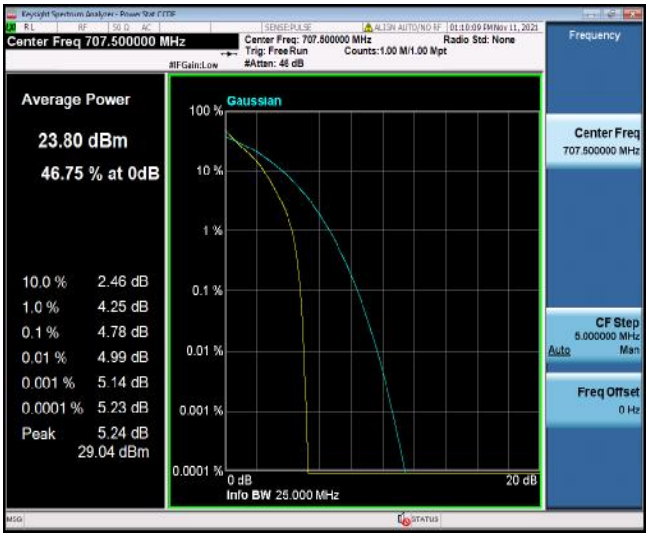
Band12-5MHz-QPSK-23095-1RB#0



Band12-5MHz-QPSK-23095-25RB#0



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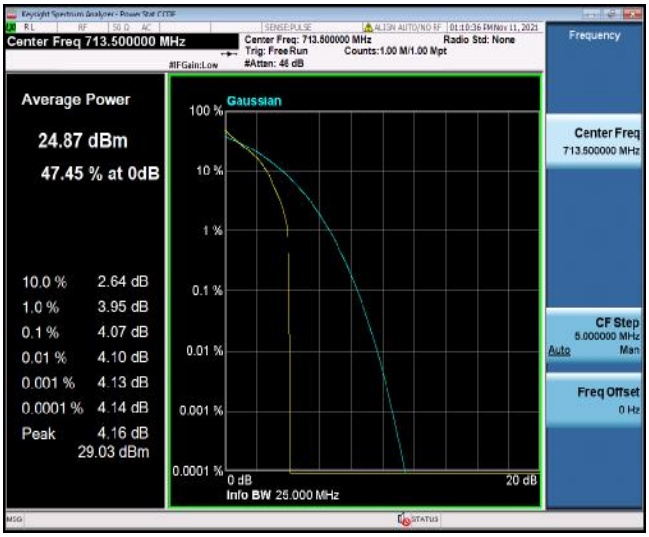
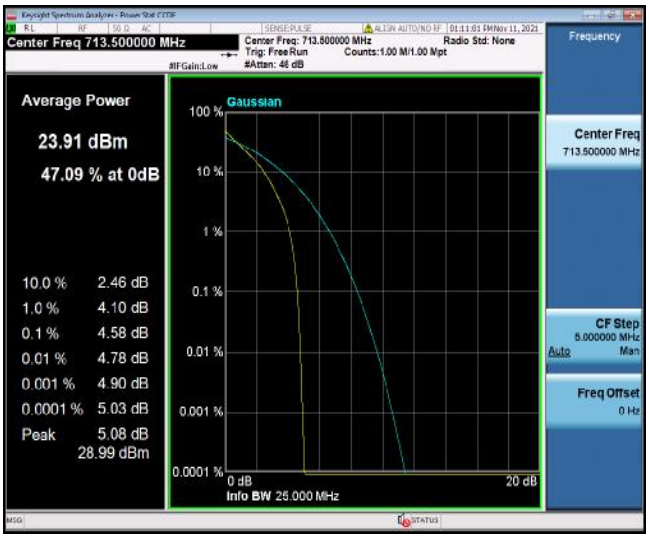


Band12-5MHz-QPSK-23155-25RB#0



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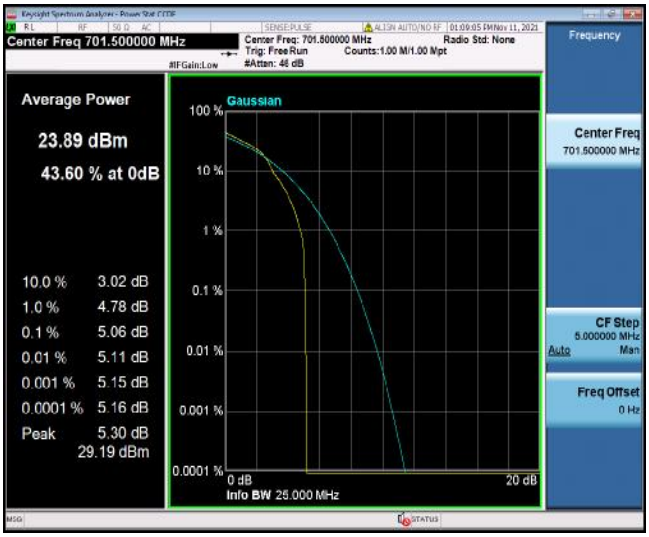
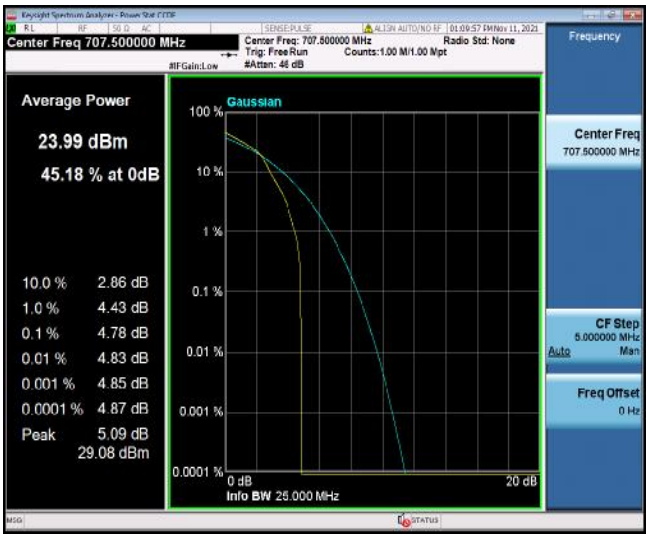
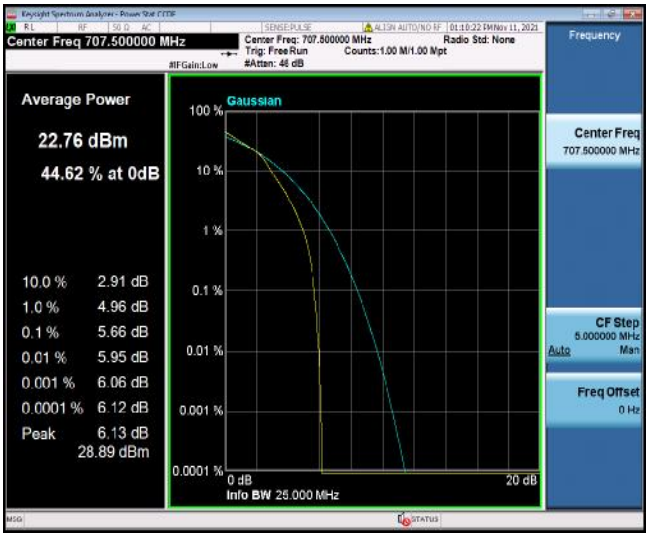


Band12-5MHz-16QAM-23035-25RB#0

Band12-5MHz-16QAM-23095-1RB#0



Band12-5MHz-16QAM-23095-25RB#0



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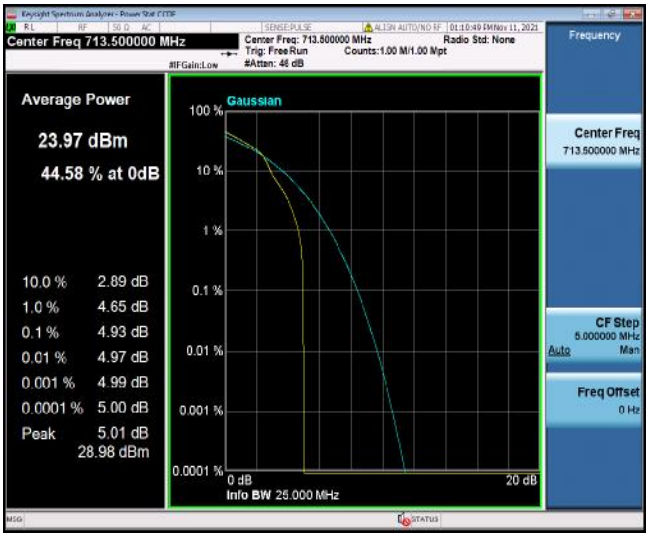
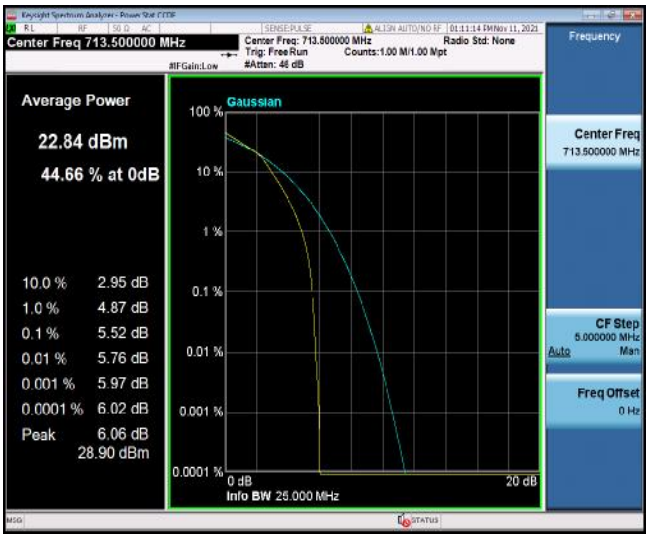
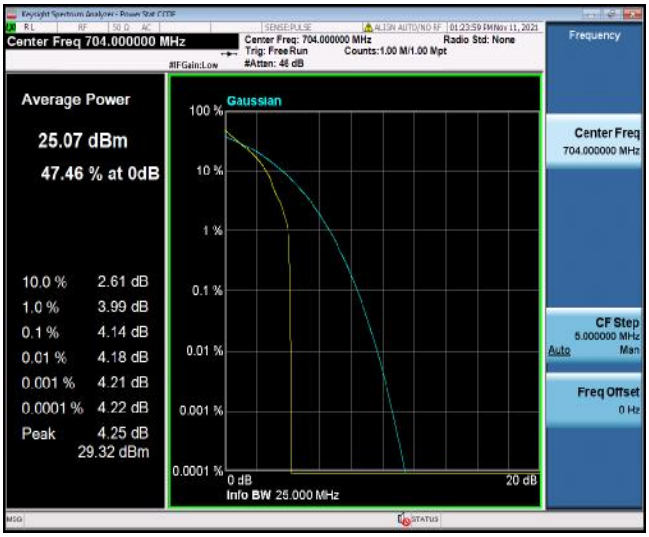


Band12-5MHz-16QAM-23155-25RB#0

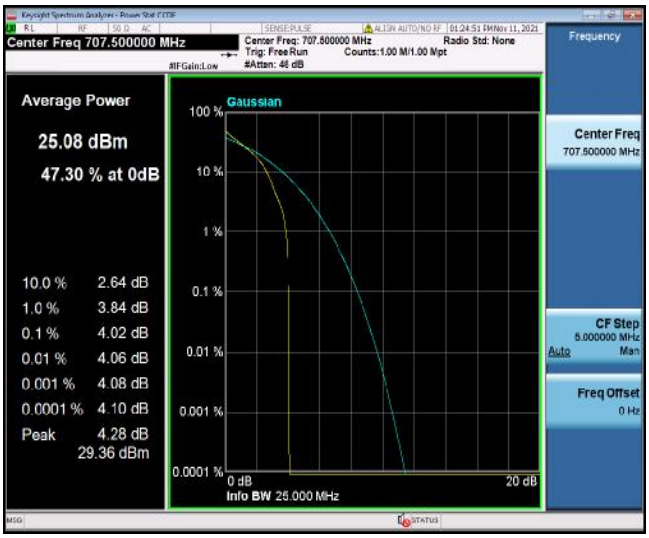


Band12-10MHz-QPSK-23060-1RB#0

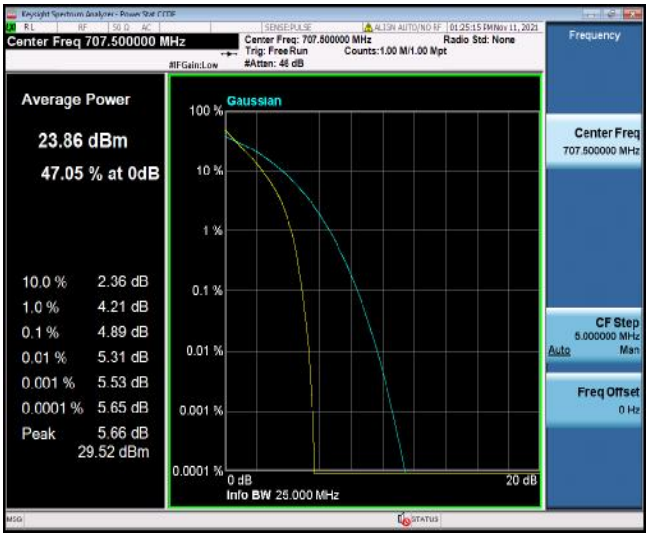


Band12-10MHz-QPSK-23060-50RB#0

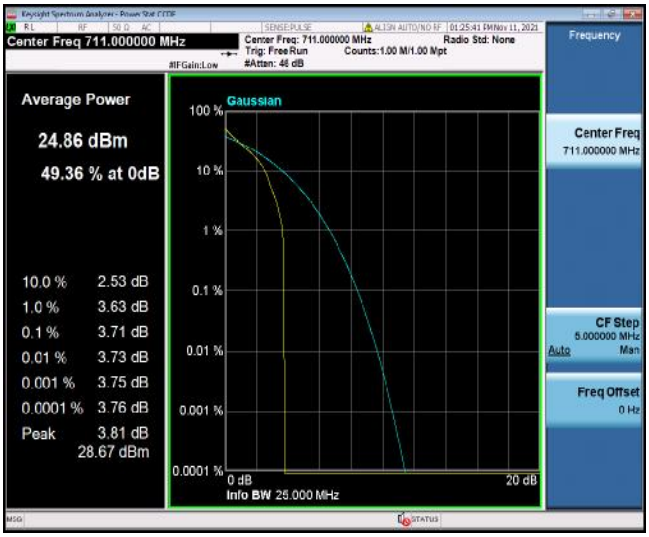
Band12-10MHz-QPSK-23095-1RB#0



Band12-10MHz-QPSK-23095-50RB#0

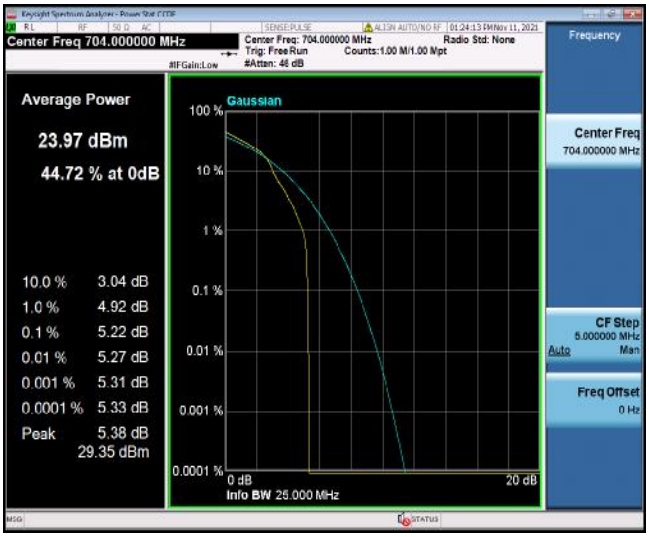


Band12-10MHz-QPSK-23130-1RB#0

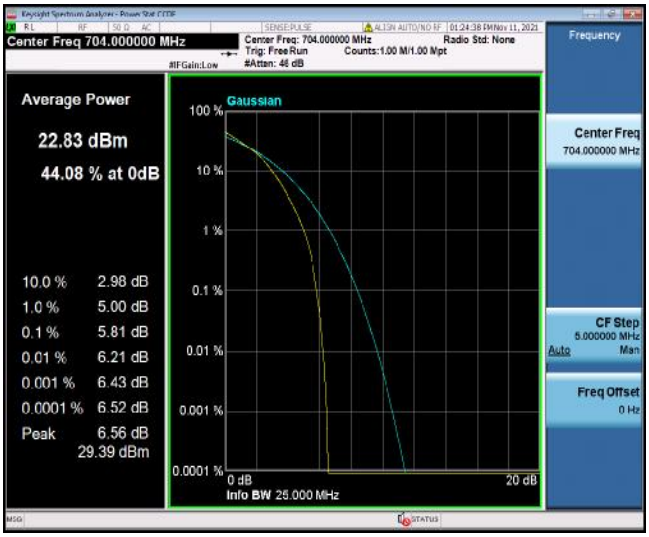


Band12-10MHz-QPSK-23130-50RB#0

Band12-10MHz-16QAM-23060-1RB#0

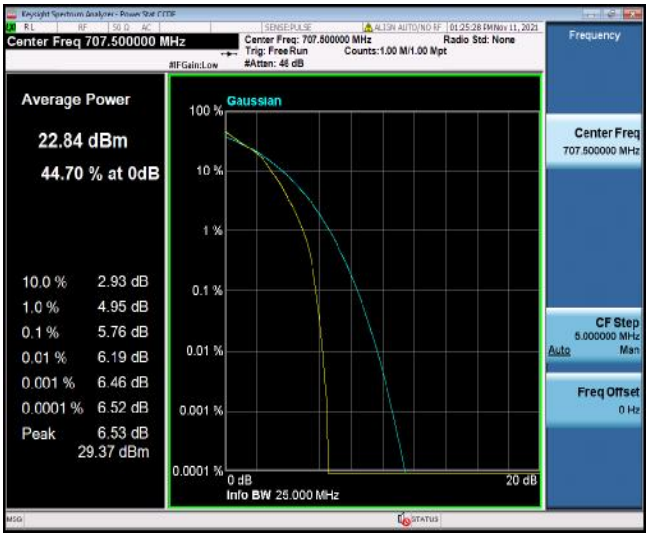


Band12-10MHz-16QAM-23060-50RB#0

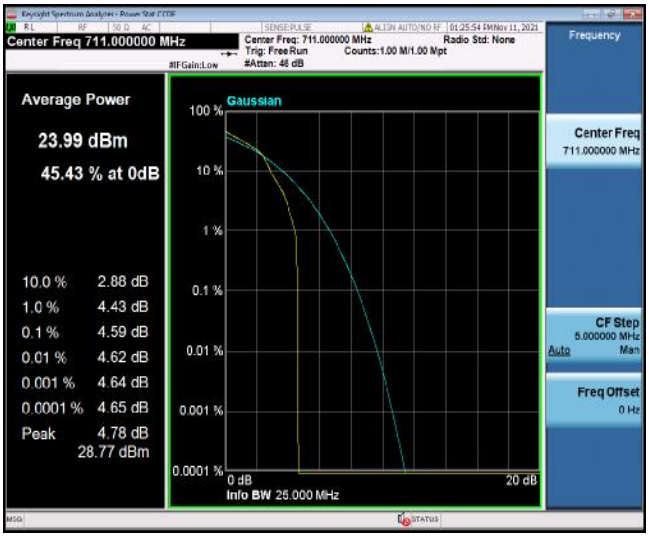


Band12-10MHz-16QAM-23095-1RB#0

Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-1RB#0



Band12-10MHz-16QAM-23130-50RB#0

Center Freq 711.000000 MHz
Center Freq: 711.000000 MHz
Trig: Free Run
#Atten: 46 dB
Counts:1.00 M/1.00 Mpt
Radio Std: None
Frequency
Average Power
22.71 dBm
43.97 % at 0dB
10.0 % 2.92 dB
1.0 % 4.93 dB
0.1 % 5.74 dB
0.01 % 6.13 dB
0.001 % 6.34 dB
0.0001 % 6.44 dB
Peak 6.47 dB
29.18 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz
Center Freq
711.000000 MHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0925	1.093	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0938	1.094	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0948	1.095	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0988	1.099	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1002	1.100	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1010	1.101	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7082	2.708	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7073	2.707	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6956	2.696	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6988	2.699	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6935	2.694	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6981	2.698	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5199	4.520	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5078	4.508	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4982	4.498	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5133	4.513	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4988	4.499	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5108	4.511	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9551	8.955	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9749	8.975	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9991	8.999	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9681	8.968	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9485	8.949	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9893	8.989	PASS

Test Graphs

Band12-1.4MHz-QPSK-23017-6RB#0-1.0925
Band12-1.4MHz-QPSK-23095-6RB#0-1.0938
Band12-1.4MHz-QPSK-23173-6RB#0-1.0948

Band12-1.4MHz-16QAM-23017-6RB#0-1.0988

Band12-1.4MHz-16QAM-23095-6RB#0-1.1002

Band12-1.4MHz-16QAM-23173-6RB#0-1.1010

Band12-3MHz-QPSK-23025-15RB#0-2.7082

Band12-3MHz-QPSK-23095-15RB#0-2.7073

Band12-3MHz-QPSK-23165-15RB#0-2.6956

Band12-3MHz-16QAM-23025-15RB#0-2.6988

Band12-3MHz-16QAM-23095-15RB#0-2.6935

Band12-3MHz-16QAM-23165-15RB#0-2.6981

Band12-5MHz-QPSK-23035-25RB#0-4.5199

Band12-5MHz-QPSK-23095-25RB#0-4.5078

Band12-5MHz-QPSK-23155-25RB#0-4.4982

Band12-5MHz-16QAM-23035-25RB#0-4.5133

Band12-5MHz-16QAM-23095-25RB#0-4.4988

Band12-5MHz-16QAM-23155-25RB#0-4.5108

Band12-10MHz-QPSK-23060-50RB#0-8.9551

Band12-10MHz-QPSK-23095-50RB#0-8.9749

Band12-10MHz-QPSK-23130-50RB#0-8.9991

Band12-10MHz-16QAM-23060-50RB#0-8.9681

Band12-10MHz-16QAM-23095-50RB#0-8.9485

Band12-10MHz-16QAM-23130-50RB#0-8.9893

Center Freq 711.000000 MHz
Center Freq: 711.000000 MHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 8.14 dB
10 dB/div
Ref 30.00 dBm
Mkr1 707.16667 MHz
17.439 dBm
Center Freq
711.000000 MHz
Center 711 MHz
#Res BW 200 kHz
#VBW 620 kHz
Span 20 MHz
#Sweep 100 ms
CF Step
2.000000 MHz
Auto
Man
Occupied Bandwidth
8.9893 MHz
Total Power
31.7 dBm
Transmit Freq Error
10.123 kHz
% of OBW Power
99.00 %
x dB Bandwidth
9.841 MHz
x dB
-26.00 dB
Freq Offset
0 Hz

Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-32.03,-20.35	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	-50.75,-50.15	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-30.09,-25.50	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	-51.59,-51.13	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-19.24,-30.80	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-23.57,-26.31	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-33.85,-21.97	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	-52.00,-51.65	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-31.06,-26.76	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	-52.71,-52.69	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-20.89,-32.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-24.20,-27.15	PASS
Band12	3MHz	QPSK	23025	1RB#0	-30.62,-17.83	PASS
Band12	3MHz	QPSK	23025	1RB#14	-43.32,-53.36	PASS
Band12	3MHz	QPSK	23025	15RB#0	-29.22,-24.04	PASS
Band12	3MHz	QPSK	23165	1RB#0	-52.70,-43.14	PASS
Band12	3MHz	QPSK	23165	1RB#14	-15.62,-28.67	PASS
Band12	3MHz	QPSK	23165	15RB#0	-23.19,-27.85	PASS
Band12	3MHz	16QAM	23025	1RB#0	-30.91,-18.43	PASS
Band12	3MHz	16QAM	23025	1RB#14	-44.15,-54.10	PASS
Band12	3MHz	16QAM	23025	15RB#0	-31.08,-26.37	PASS
Band12	3MHz	16QAM	23165	1RB#0	-53.18,-43.74	PASS
Band12	3MHz	16QAM	23165	1RB#14	-16.59,-29.31	PASS
Band12	3MHz	16QAM	23165	15RB#0	-25.11,-29.82	PASS
Band12	5MHz	QPSK	23035	1RB#0	-15.99	PASS
Band12	5MHz	QPSK	23035	1RB#24	-52.09	PASS
Band12	5MHz	QPSK	23035	25RB#0	-23.93	PASS
Band12	5MHz	QPSK	23155	1RB#0	-51.29	PASS
Band12	5MHz	QPSK	23155	1RB#24	-15.09	PASS
Band12	5MHz	QPSK	23155	25RB#0	-22.49	PASS
Band12	5MHz	16QAM	23035	1RB#0	-16.62	PASS
Band12	5MHz	16QAM	23035	1RB#24	-52.49	PASS
Band12	5MHz	16QAM	23035	25RB#0	-25.25	PASS
Band12	5MHz	16QAM	23155	1RB#0	-52.04	PASS
Band12	5MHz	16QAM	23155	1RB#24	-16.43	PASS
Band12	5MHz	16QAM	23155	25RB#0	-24.34	PASS
Band12	10MHz	QPSK	23060	1RB#0	-30.03,-23.17	PASS

Band12	10MHz	QPSK	23060	1RB#49	-49.88,-48.49	PASS
Band12	10MHz	QPSK	23060	50RB#0	-29.36,-26.82	PASS
Band12	10MHz	QPSK	23130	1RB#0	-48.31,-49.38	PASS
Band12	10MHz	QPSK	23130	1RB#49	-22.52,-29.49	PASS
Band12	10MHz	QPSK	23130	50RB#0	-25.95,-27.28	PASS
Band12	10MHz	16QAM	23060	1RB#0	-30.14,-24.13	PASS
Band12	10MHz	16QAM	23060	1RB#49	-49.79,-48.07	PASS
Band12	10MHz	16QAM	23060	50RB#0	-31.33,-29.35	PASS
Band12	10MHz	16QAM	23130	1RB#0	-48.60,-49.68	PASS
Band12	10MHz	16QAM	23130	1RB#49	-22.96,-30.16	PASS
Band12	10MHz	16QAM	23130	50RB#0	-27.21,-29.12	PASS

Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0

Band12-1.4MHz-QPSK-23017-1RB#5

Band12-1.4MHz-QPSK-23017-6RB#0

Band12-1.4MHz-QPSK-23173-1RB#0

Band12-1.4MHz-QPSK-23173-1RB#5

Band12-1.4MHz-QPSK-23173-6RB#0

Band12-1.4MHz-16QAM-23017-1RB#0

Band12-1.4MHz-16QAM-23017-1RB#5

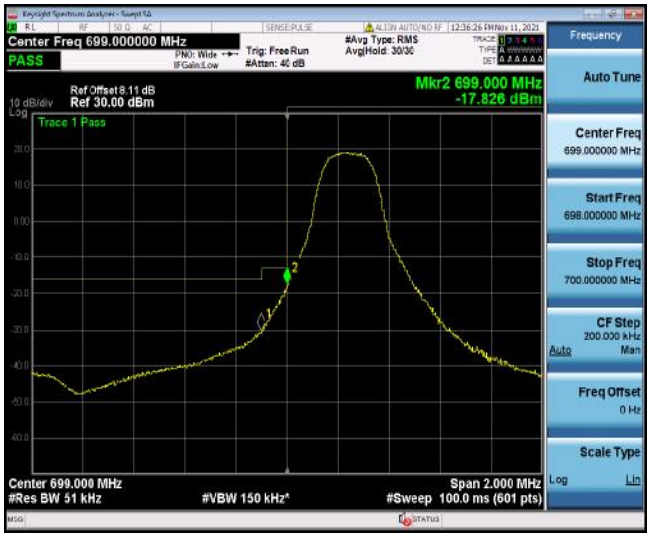
Band12-1.4MHz-16QAM-23017-6RB#0

Band12-1.4MHz-16QAM-23173-1RB#0

Band12-1.4MHz-16QAM-23173-1RB#5

Band12-1.4MHz-16QAM-23173-6RB#0

Band12-3MHz-QPSK-23025-1RB#0



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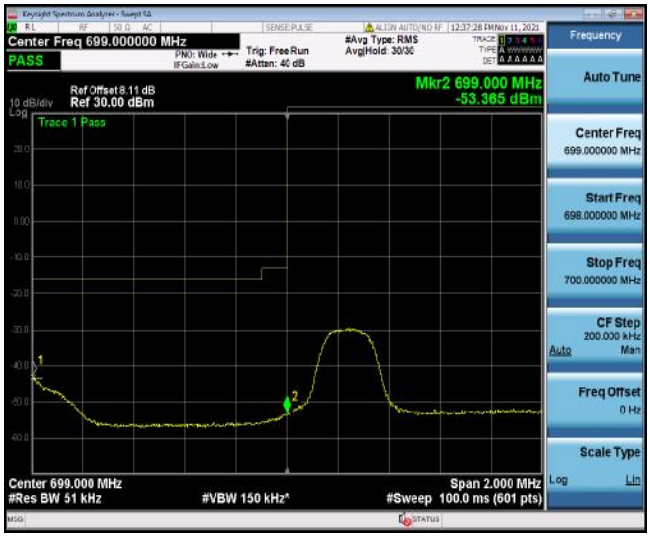

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