

Appendix for Band 26(824-849MHz)

Product Name: CelluCORE 24

Model No: 119906

Appendix A: Average Power Output Data for M1

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Result(dBm)	Verdict
Band26	1.4MHz	26797	QPSK	1	0	22.58	PASS
Band26	1.4MHz	26797	QPSK	1	5	22.44	PASS
Band26	1.4MHz	26797	QPSK	6	0	20.65	PASS
Band26	1.4MHz	26915	QPSK	1	0	22.66	PASS
Band26	1.4MHz	26915	QPSK	1	5	22.20	PASS
Band26	1.4MHz	26915	QPSK	6	0	21.19	PASS
Band26	1.4MHz	27033	QPSK	1	0	22.27	PASS
Band26	1.4MHz	27033	QPSK	1	5	22.07	PASS
Band26	1.4MHz	27033	QPSK	6	0	21.07	PASS
Band26	1.4MHz	26797	16QAM	1	0	21.78	PASS
Band26	1.4MHz	26797	16QAM	1	5	21.70	PASS
Band26	1.4MHz	26797	16QAM	6	0	20.46	PASS
Band26	1.4MHz	26915	16QAM	1	0	21.38	PASS
Band26	1.4MHz	26915	16QAM	1	5	21.01	PASS
Band26	1.4MHz	26915	16QAM	6	0	21.28	PASS
Band26	1.4MHz	27033	16QAM	1	0	21.14	PASS
Band26	1.4MHz	27033	16QAM	1	5	20.96	PASS
Band26	1.4MHz	27033	16QAM	6	0	20.91	PASS
Band26	3MHz	26805	QPSK	1	0	22.45	PASS
Band26	3MHz	26805	QPSK	1	5	22.57	PASS
Band26	3MHz	26805	QPSK	6	0	20.50	PASS
Band26	3MHz	26915	QPSK	1	0	22.12	PASS
Band26	3MHz	26915	QPSK	1	5	22.11	PASS
Band26	3MHz	26915	QPSK	6	0	20.35	PASS
Band26	3MHz	27025	QPSK	1	0	21.95	PASS
Band26	3MHz	27025	QPSK	1	5	21.60	PASS
Band26	3MHz	27025	QPSK	6	0	20.72	PASS
Band26	3MHz	26805	16QAM	1	0	21.42	PASS
Band26	3MHz	26805	16QAM	1	5	21.29	PASS
Band26	3MHz	26805	16QAM	6	0	20.33	PASS
Band26	3MHz	26915	16QAM	1	0	21.30	PASS
Band26	3MHz	26915	16QAM	1	5	21.24	PASS
Band26	3MHz	26915	16QAM	6	0	20.57	PASS
Band26	3MHz	27025	16QAM	1	0	20.94	PASS
Band26	3MHz	27025	16QAM	1	5	20.66	PASS

Band26	3MHz	27025	16QAM	6	0	20.72	PASS
Band26	5MHz	26815	QPSK	1	0	22.66	PASS
Band26	5MHz	26815	QPSK	1	5	22.15	PASS
Band26	5MHz	26815	QPSK	6	0	21.24	PASS
Band26	5MHz	26915	QPSK	1	0	22.68	PASS
Band26	5MHz	26915	QPSK	1	5	22.16	PASS
Band26	5MHz	26915	QPSK	6	0	21.24	PASS
Band26	5MHz	27015	QPSK	1	0	22.13	PASS
Band26	5MHz	27015	QPSK	1	5	21.64	PASS
Band26	5MHz	27015	QPSK	6	0	20.61	PASS
Band26	5MHz	26815	16QAM	1	0	22.38	PASS
Band26	5MHz	26815	16QAM	1	5	22.05	PASS
Band26	5MHz	26815	16QAM	6	0	21.24	PASS
Band26	5MHz	26915	16QAM	1	0	22.77	PASS
Band26	5MHz	26915	16QAM	1	5	22.51	PASS
Band26	5MHz	26915	16QAM	6	0	21.15	PASS
Band26	5MHz	27015	16QAM	1	0	21.77	PASS
Band26	5MHz	27015	16QAM	1	5	21.51	PASS
Band26	5MHz	27015	16QAM	6	0	20.64	PASS
Band26	10MHz	26840	QPSK	1	0	22.50	PASS
Band26	10MHz	26840	QPSK	1	5	22.13	PASS
Band26	10MHz	26840	QPSK	6	0	21.31	PASS
Band26	10MHz	26915	QPSK	1	0	22.56	PASS
Band26	10MHz	26915	QPSK	1	5	22.41	PASS
Band26	10MHz	26915	QPSK	6	0	21.21	PASS
Band26	10MHz	26990	QPSK	1	0	22.20	PASS
Band26	10MHz	26990	QPSK	1	5	21.81	PASS
Band26	10MHz	26990	QPSK	6	0	20.68	PASS
Band26	10MHz	26840	16QAM	1	0	22.33	PASS
Band26	10MHz	26840	16QAM	1	5	21.89	PASS
Band26	10MHz	26840	16QAM	6	0	21.22	PASS
Band26	10MHz	26915	16QAM	1	0	22.83	PASS
Band26	10MHz	26915	16QAM	1	5	22.56	PASS
Band26	10MHz	26915	16QAM	6	0	21.11	PASS
Band26	10MHz	26990	16QAM	1	0	21.95	PASS
Band26	10MHz	26990	16QAM	1	5	21.67	PASS
Band26	10MHz	26990	16QAM	6	0	20.78	PASS
Band26	15MHz	26865	QPSK	1	0	22.73	PASS
Band26	15MHz	26865	QPSK	1	5	22.39	PASS
Band26	15MHz	26865	QPSK	6	0	22.47	PASS
Band26	15MHz	26915	QPSK	1	0	22.48	PASS
Band26	15MHz	26915	QPSK	1	5	22.40	PASS

Band26	15MHz	26915	QPSK	6	0	22.09	PASS
Band26	15MHz	26960	QPSK	1	0	22.04	PASS
Band26	15MHz	26960	QPSK	1	5	21.86	PASS
Band26	15MHz	26960	QPSK	6	0	21.86	PASS
Band26	15MHz	26865	16QAM	1	0	22.89	PASS
Band26	15MHz	26865	16QAM	1	5	22.62	PASS
Band26	15MHz	26865	16QAM	6	0	22.37	PASS
Band26	15MHz	26915	16QAM	1	0	22.06	PASS
Band26	15MHz	26915	16QAM	1	5	21.76	PASS
Band26	15MHz	26915	16QAM	6	0	22.17	PASS
Band26	15MHz	26960	16QAM	1	0	22.20	PASS
Band26	15MHz	26960	16QAM	1	5	22.02	PASS
Band26	15MHz	26960	16QAM	6	0	21.66	PASS

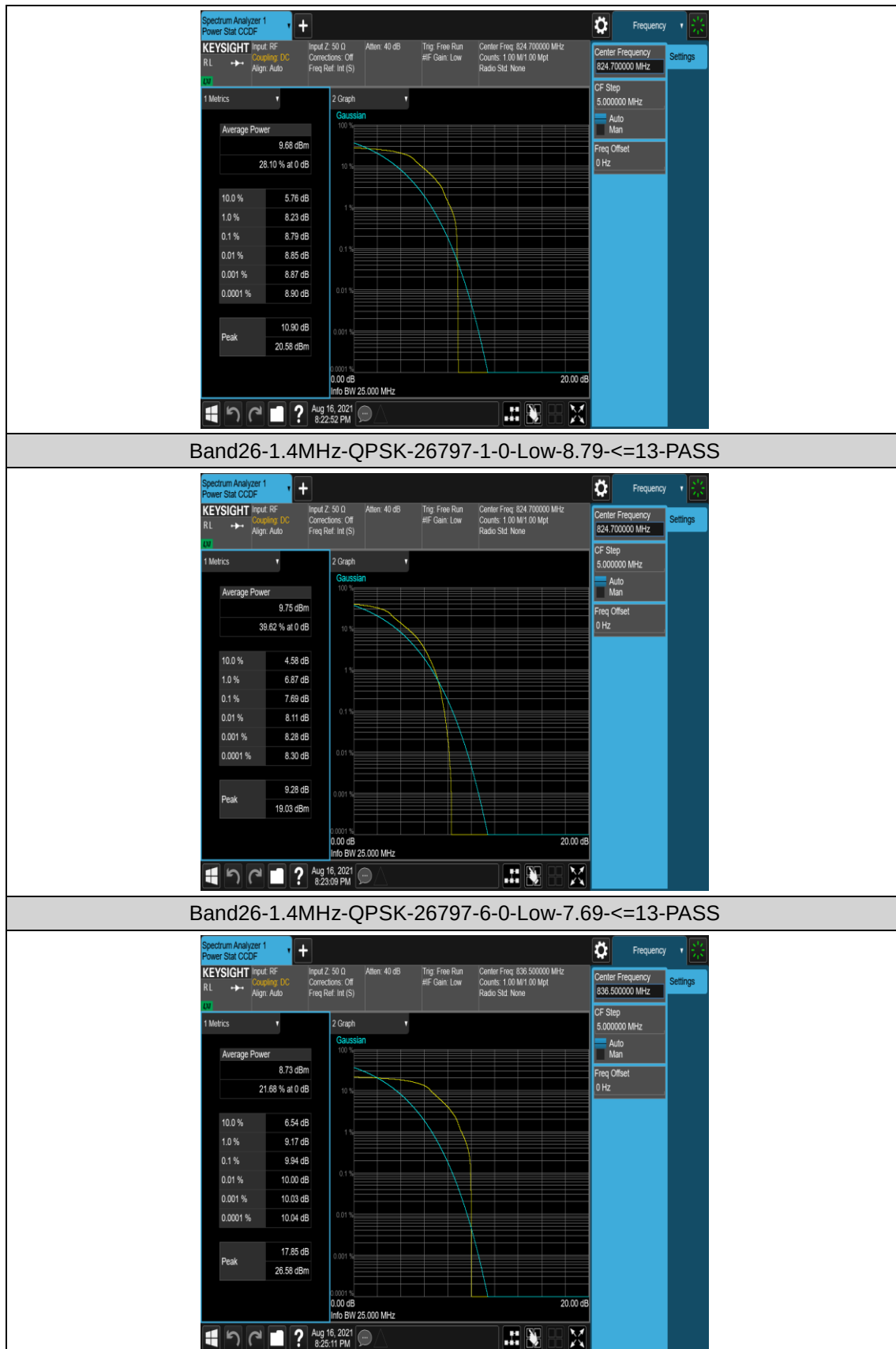
Appendix B: Peak-to-Average Ratio(CCDF) for M1

Test Result

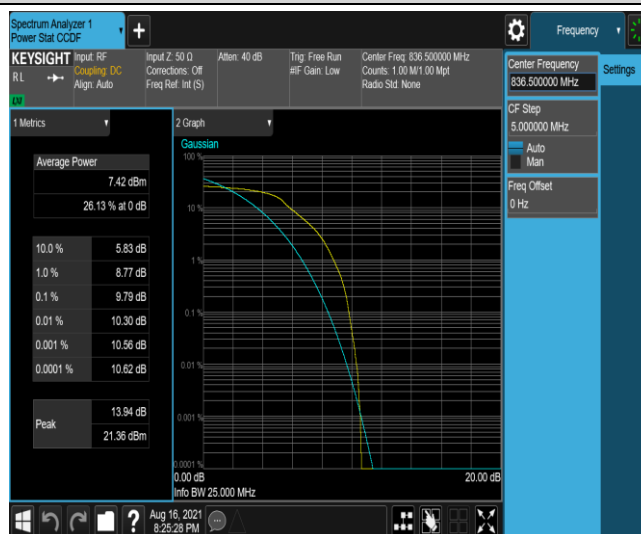
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Result(dB)	Limit(dB)	Verdict
Band26	1.4MHz	26797	QPSK	1	0	8.79	<=13	PASS
Band26	1.4MHz	26797	QPSK	6	0	7.69	<=13	PASS
Band26	1.4MHz	26915	QPSK	1	0	9.94	<=13	PASS
Band26	1.4MHz	26915	QPSK	6	0	9.79	<=13	PASS
Band26	1.4MHz	27033	QPSK	1	0	9.23	<=13	PASS
Band26	1.4MHz	27033	QPSK	6	0	11.70	<=13	PASS
Band26	1.4MHz	26797	16QAM	1	0	10.03	<=13	PASS
Band26	1.4MHz	26797	16QAM	6	0	10.68	<=13	PASS
Band26	1.4MHz	26915	16QAM	1	0	8.74	<=13	PASS
Band26	1.4MHz	26915	16QAM	6	0	10.86	<=13	PASS
Band26	1.4MHz	27033	16QAM	1	0	10.17	<=13	PASS
Band26	1.4MHz	27033	16QAM	6	0	8.56	<=13	PASS
Band26	3MHz	26805	QPSK	1	0	9.09	<=13	PASS
Band26	3MHz	26805	QPSK	6	0	9.48	<=13	PASS
Band26	3MHz	26915	QPSK	1	0	8.38	<=13	PASS
Band26	3MHz	26915	QPSK	6	0	10.33	<=13	PASS
Band26	3MHz	27025	QPSK	1	0	7.95	<=13	PASS
Band26	3MHz	27025	QPSK	6	0	10.41	<=13	PASS
Band26	3MHz	26805	16QAM	1	0	8.19	<=13	PASS
Band26	3MHz	26805	16QAM	6	0	8.54	<=13	PASS
Band26	3MHz	26915	16QAM	1	0	9.01	<=13	PASS
Band26	3MHz	26915	16QAM	6	0	8.36	<=13	PASS
Band26	3MHz	27025	16QAM	1	0	10.33	<=13	PASS
Band26	3MHz	27025	16QAM	6	0	11.14	<=13	PASS
Band26	5MHz	26815	QPSK	1	0	8.44	<=13	PASS
Band26	5MHz	26815	QPSK	6	0	9.11	<=13	PASS
Band26	5MHz	26915	QPSK	1	0	7.73	<=13	PASS
Band26	5MHz	26915	QPSK	6	0	11.09	<=13	PASS
Band26	5MHz	27015	QPSK	1	0	9.29	<=13	PASS
Band26	5MHz	27015	QPSK	6	0	9.09	<=13	PASS
Band26	5MHz	26815	16QAM	1	0	9.35	<=13	PASS
Band26	5MHz	26815	16QAM	6	0	9.71	<=13	PASS
Band26	5MHz	26915	16QAM	1	0	8.20	<=13	PASS
Band26	5MHz	26915	16QAM	6	0	9.48	<=13	PASS

Band26	5MHz	27015	16QAM	1	0	10.09	<=13	PASS
Band26	5MHz	27015	16QAM	6	0	9.90	<=13	PASS
Band26	10MHz	26840	QPSK	1	0	9.49	<=13	PASS
Band26	10MHz	26840	QPSK	6	0	9.65	<=13	PASS
Band26	10MHz	26915	QPSK	1	0	8.45	<=13	PASS
Band26	10MHz	26915	QPSK	6	0	8.27	<=13	PASS
Band26	10MHz	26990	QPSK	1	0	8.05	<=13	PASS
Band26	10MHz	26990	QPSK	6	0	9.53	<=13	PASS
Band26	10MHz	26840	16QAM	1	0	10.21	<=13	PASS
Band26	10MHz	26840	16QAM	6	0	9.89	<=13	PASS
Band26	10MHz	26915	16QAM	1	0	9.51	<=13	PASS
Band26	10MHz	26915	16QAM	6	0	9.58	<=13	PASS
Band26	10MHz	26990	16QAM	1	0	8.39	<=13	PASS
Band26	10MHz	26990	16QAM	6	0	9.10	<=13	PASS
Band26	15MHz	26865	QPSK	1	0	8.41	<=13	PASS
Band26	15MHz	26865	QPSK	6	0	9.85	<=13	PASS
Band26	15MHz	26915	QPSK	1	0	11.50	<=13	PASS
Band26	15MHz	26915	QPSK	6	0	8.59	<=13	PASS
Band26	15MHz	26960	QPSK	1	0	8.45	<=13	PASS
Band26	15MHz	26960	QPSK	6	0	8.72	<=13	PASS
Band26	15MHz	26865	16QAM	1	0	8.74	<=13	PASS
Band26	15MHz	26865	16QAM	6	0	8.34	<=13	PASS
Band26	15MHz	26915	16QAM	1	0	9.88	<=13	PASS
Band26	15MHz	26915	16QAM	6	0	10.07	<=13	PASS
Band26	15MHz	26960	16QAM	1	0	8.68	<=13	PASS
Band26	15MHz	26960	16QAM	6	0	9.33	<=13	PASS

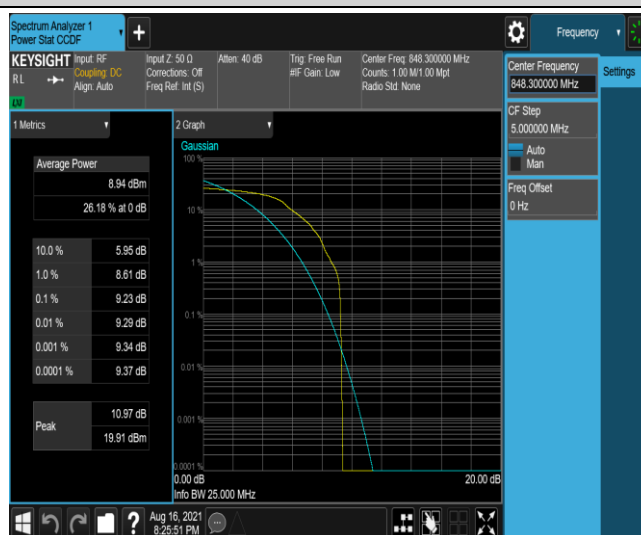
Test Graphs



Band26-1.4MHz-QPSK-26915-1-0-Low-9.94-<=13-PASS



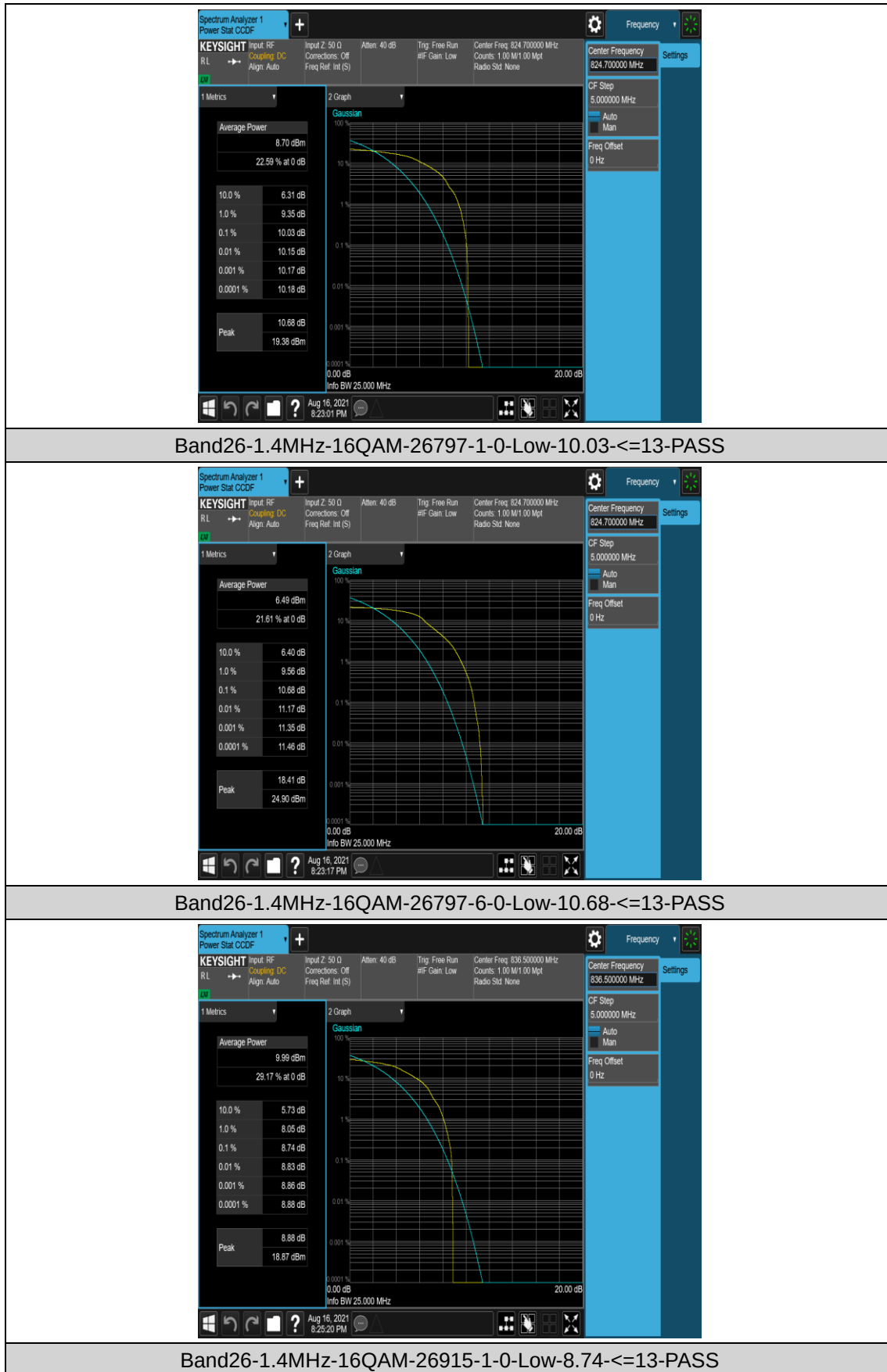
Band26-1.4MHz-QPSK-26915-6-0-Low-9.79-<=13-PASS

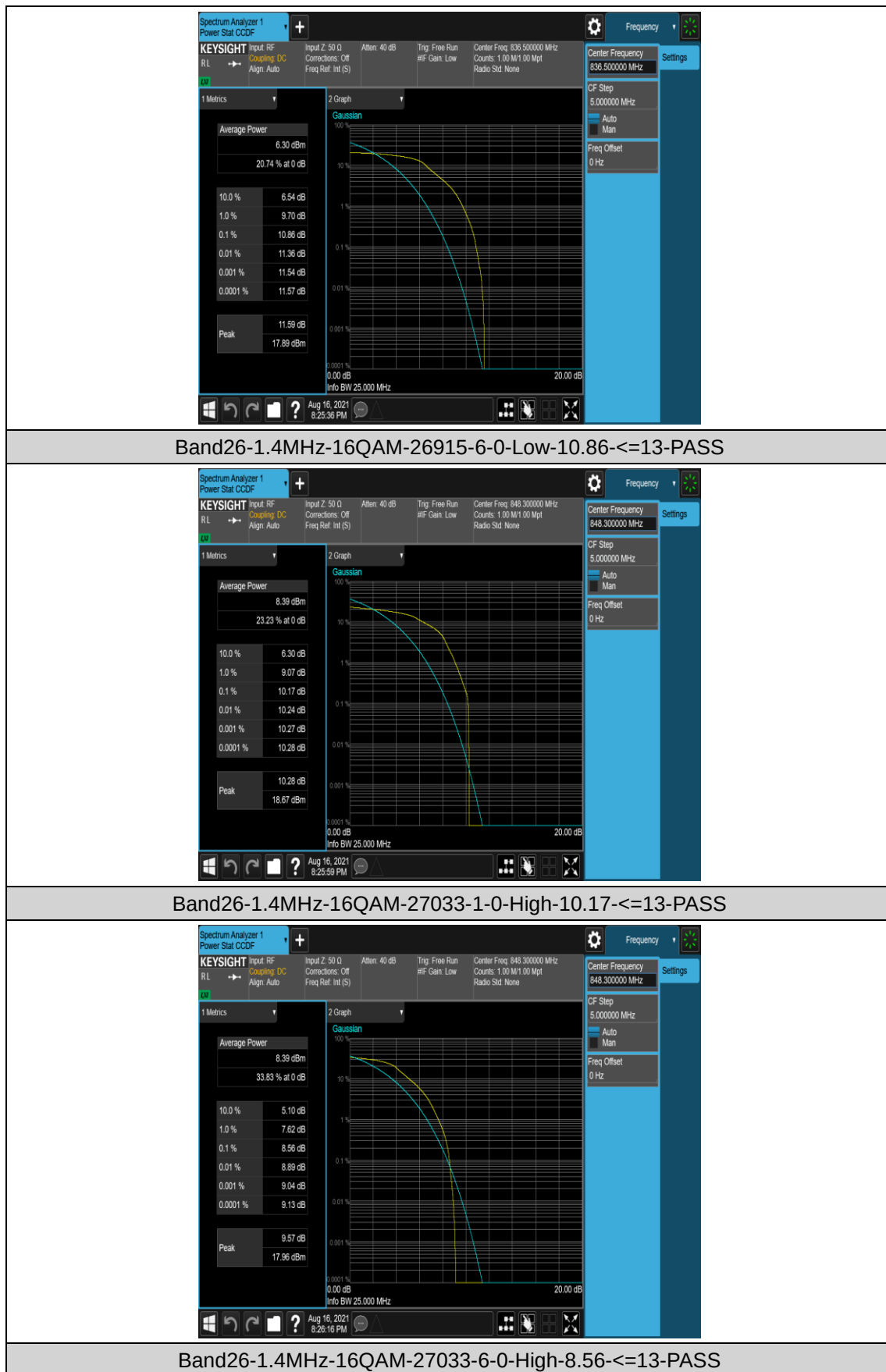


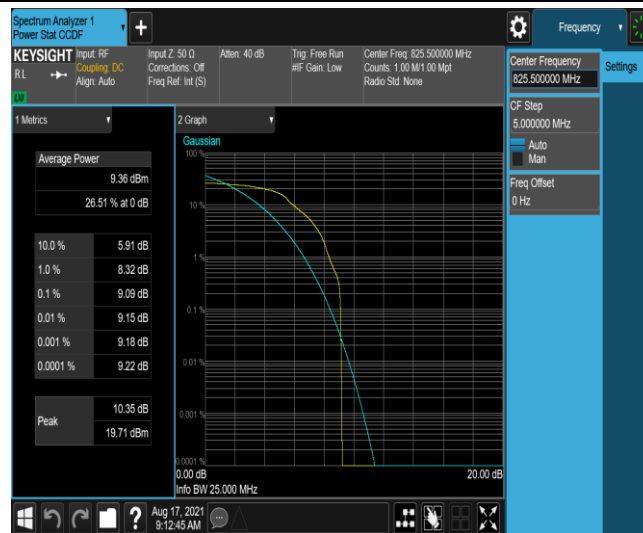
Band26-1.4MHz-QPSK-27033-1-0-High-9.23-<=13-PASS



Band26-1.4MHz-QPSK-27033-6-0-High-11.70-<=13-PASS







Band26-3MHz-QPSK-26805-1-0-Low-9.09-<=13-PASS



Band26-3MHz-QPSK-26805-6-0-Low-9.48-<=13-PASS



Band26-3MHz-QPSK-26915-1-0-Low-8.38-<=13-PASS



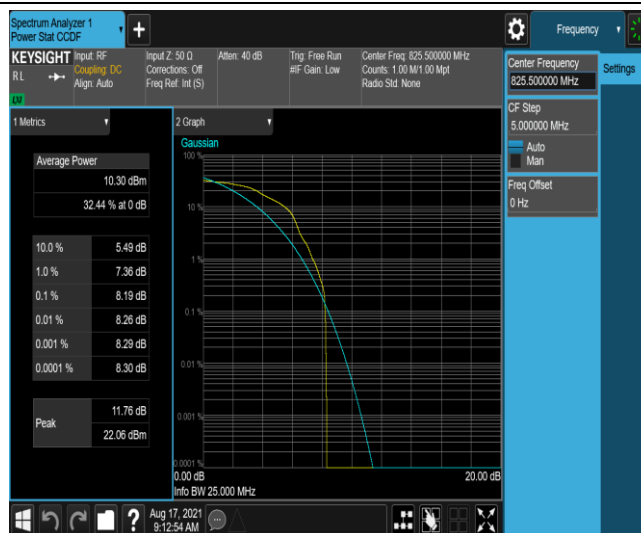
Band26-3MHz-QPSK-26915-6-0-Low-10.33-<=13-PASS



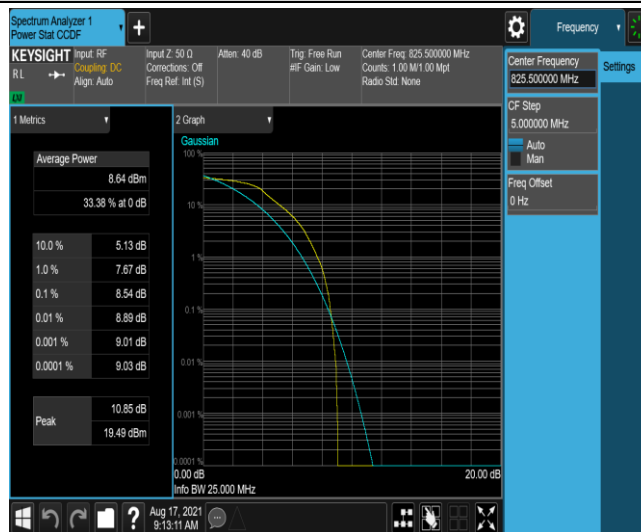
Band26-3MHz-QPSK-27025-1-0-High-7.95-<=13-PASS



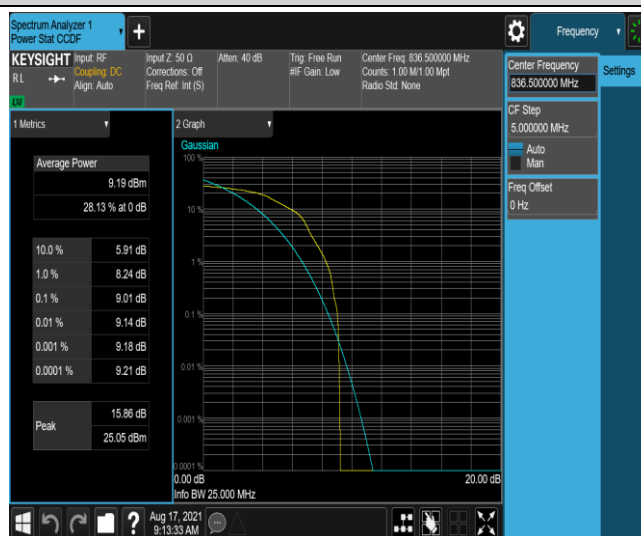
Band26-3MHz-QPSK-27025-6-0-High-10.41-<=13-PASS



Band26-3MHz-16QAM-26805-1-0-Low-8.19-<=13-PASS



Band26-3MHz-16QAM-26805-6-0-Low-8.54-<=13-PASS



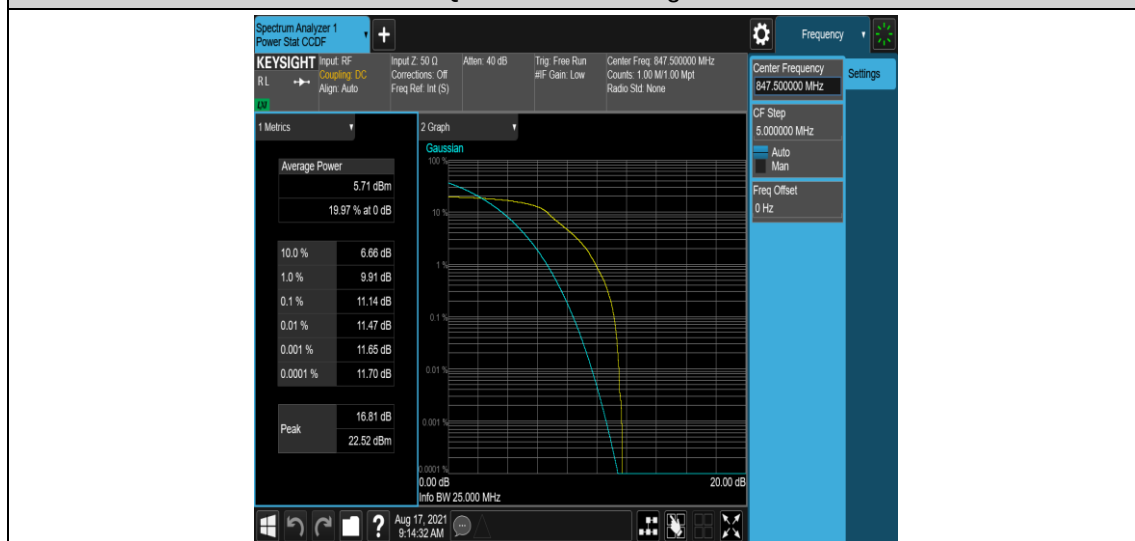
Band26-3MHz-16QAM-26915-1-0-Low-9.01-<=13-PASS



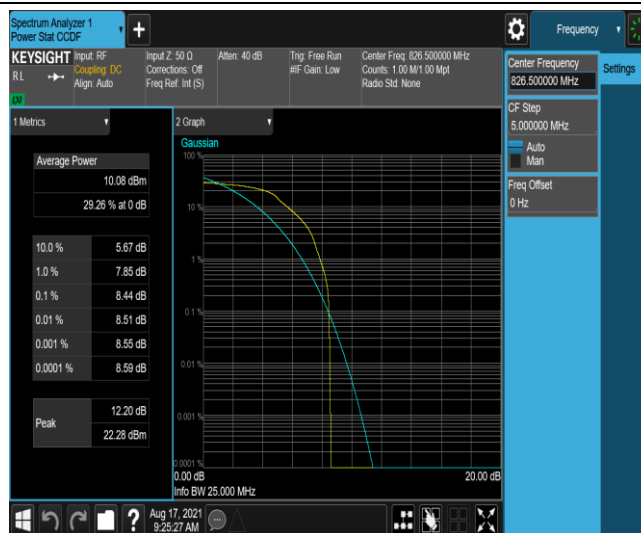
Band26-3MHz-16QAM-26915-6-0-Low-8.36-<=13-PASS



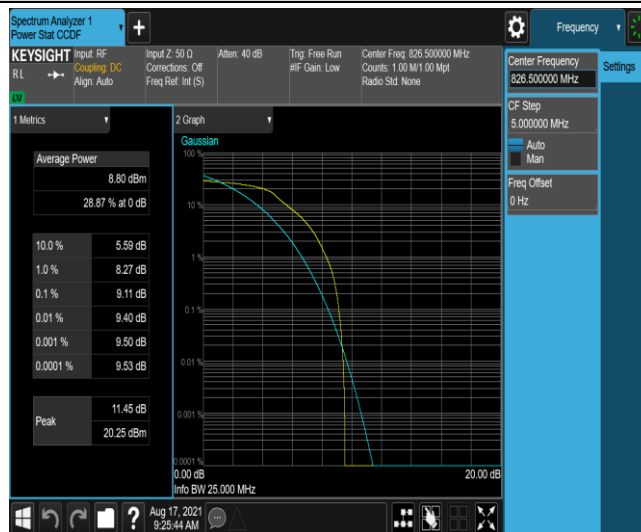
Band26-3MHz-16QAM-27025-1-0-High-10.33-<=13-PASS



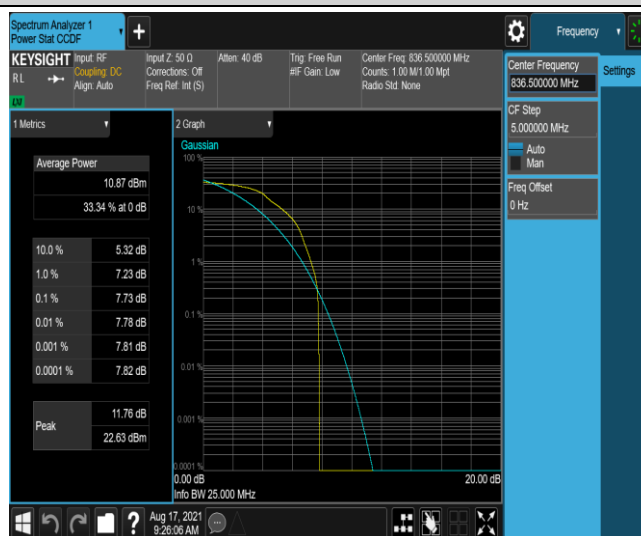
Band26-3MHz-16QAM-27025-6-0-High-11.14-<=13-PASS



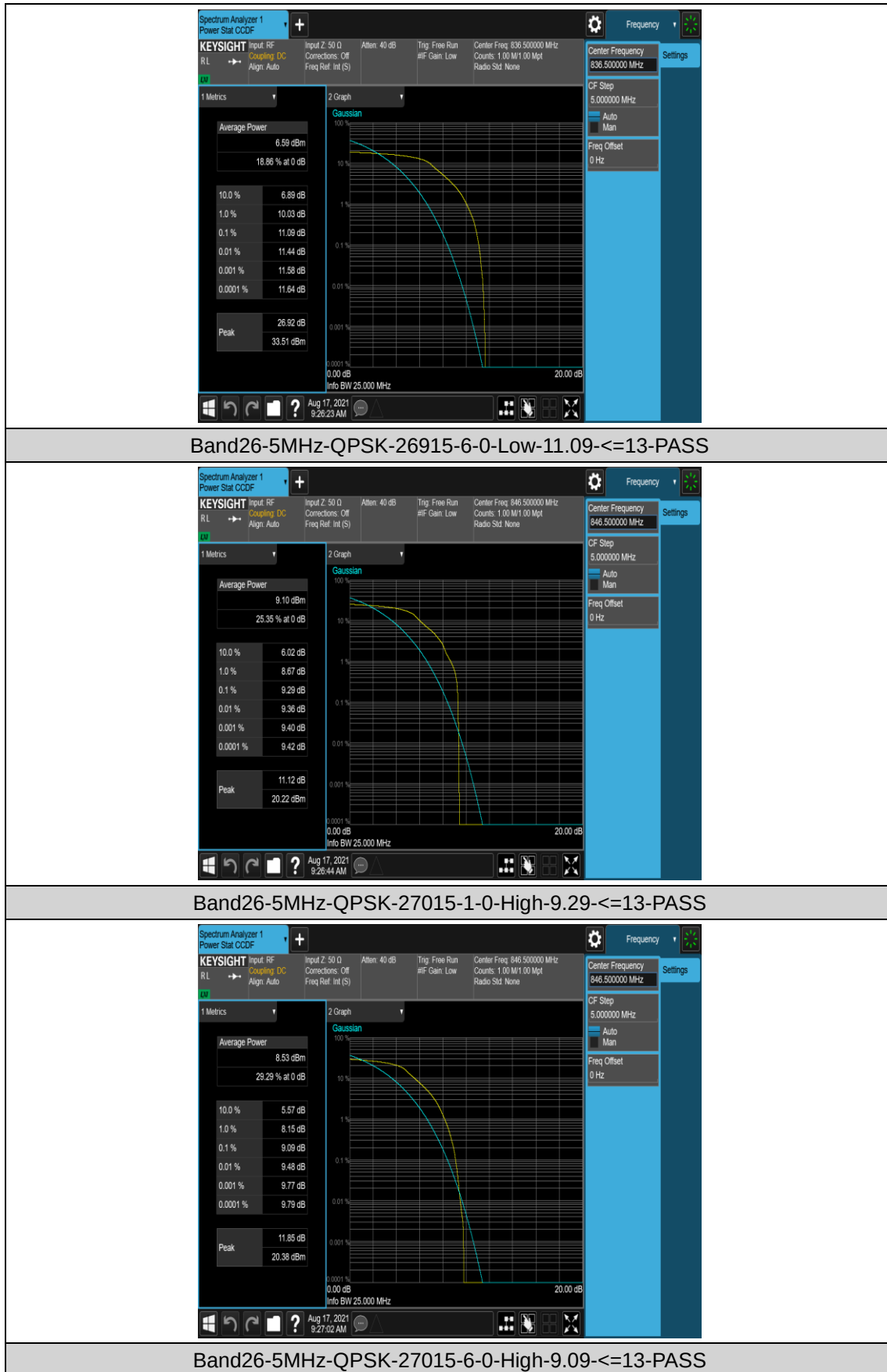
Band26-5MHz-QPSK-26815-1-0-Low-8.44-<=13-PASS

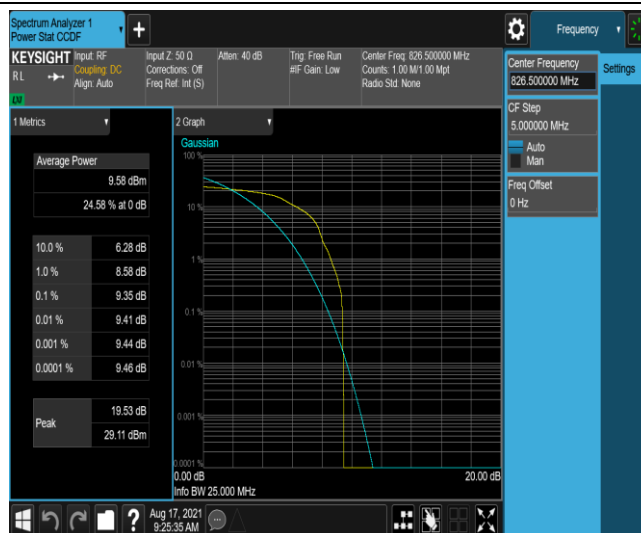


Band26-5MHz-QPSK-26815-6-0-Low-9.11-<=13-PASS

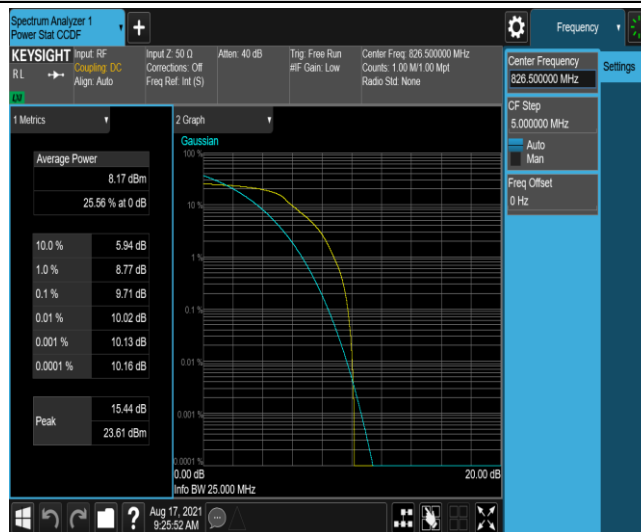


Band26-5MHz-QPSK-26915-1-0-Low-7.73-<=13-PASS

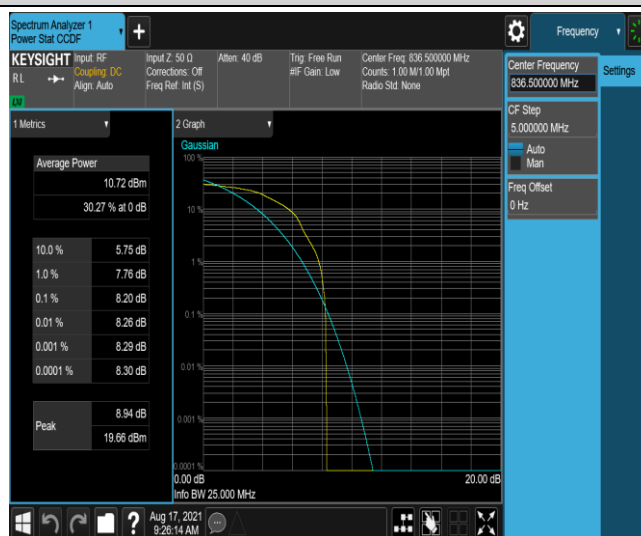




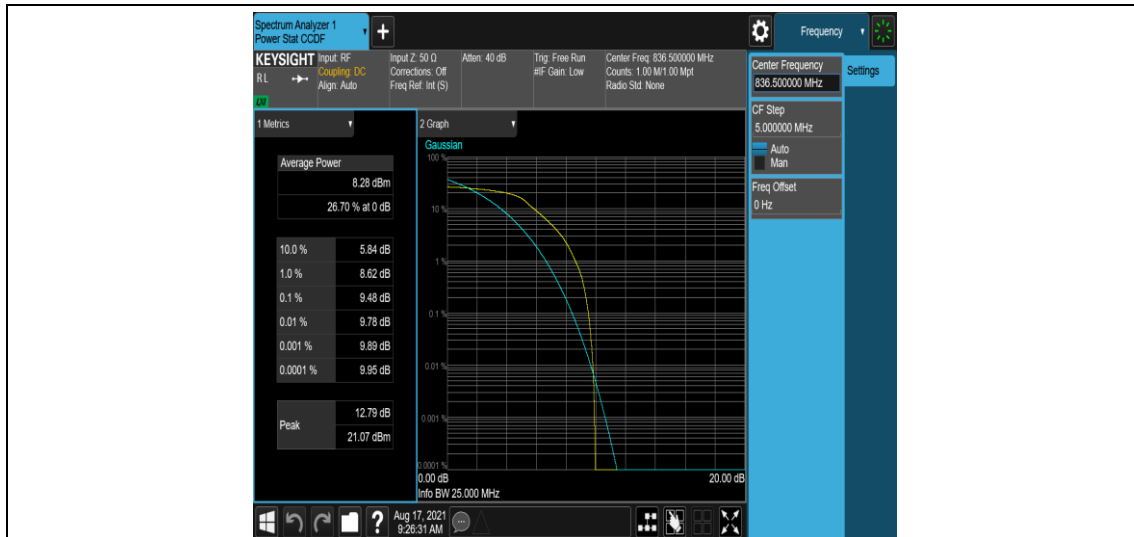
Band26-5MHz-16QAM-26815-1-0-Low-9.35-<=13-PASS



Band26-5MHz-16QAM-26815-6-0-Low-9.71-<=13-PASS



Band26-5MHz-16QAM-26915-1-0-Low-8.20-<=13-PASS



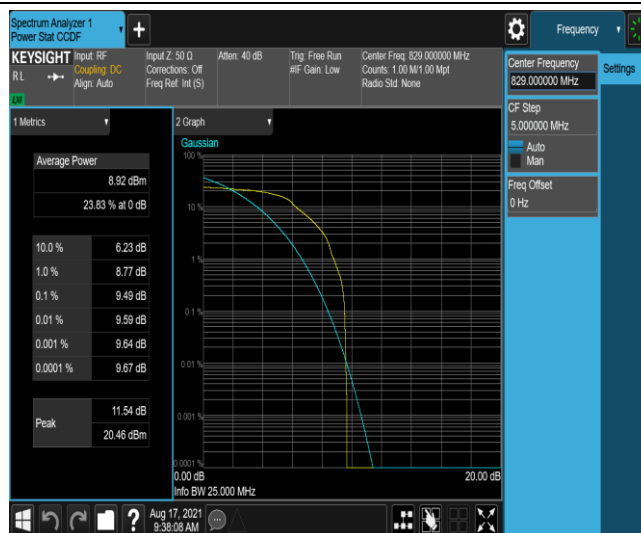
Band26-5MHz-16QAM-26915-6-0-Low-9.48-<=13-PASS



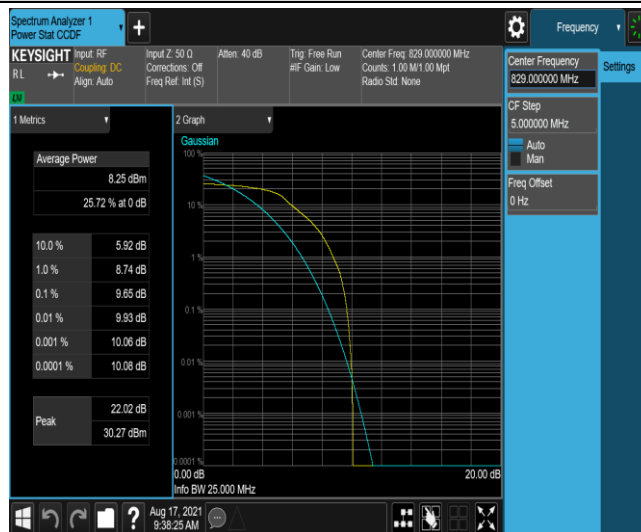
Band26-5MHz-16QAM-27015-1-0-High-10.09-<=13-PASS



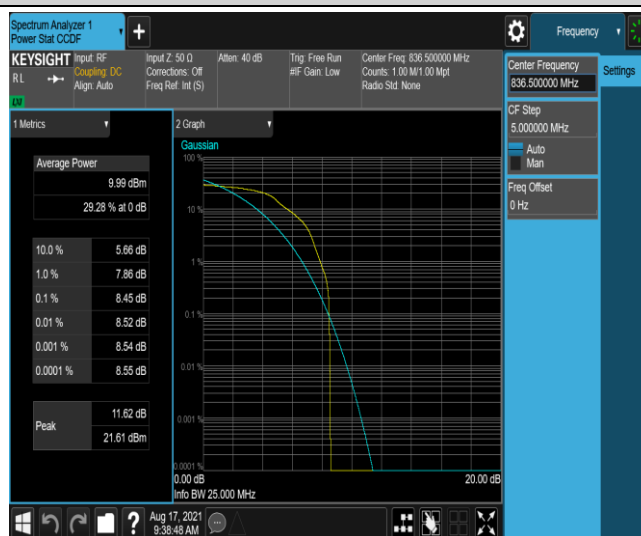
Band26-5MHz-16QAM-27015-6-0-High-9.90-<=13-PASS



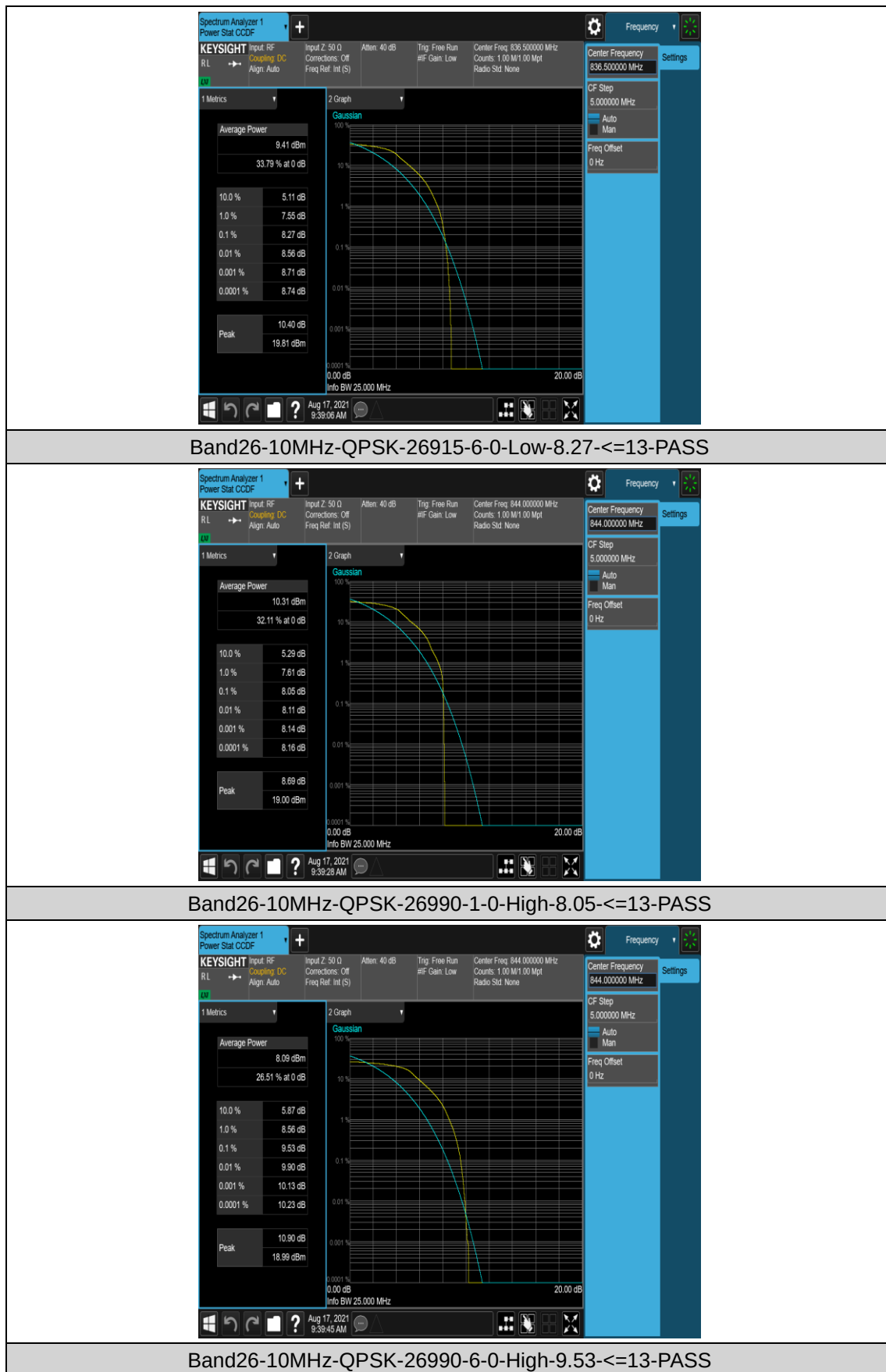
Band26-10MHz-QPSK-26840-1-0-Low-9.49-=<=13-PASS

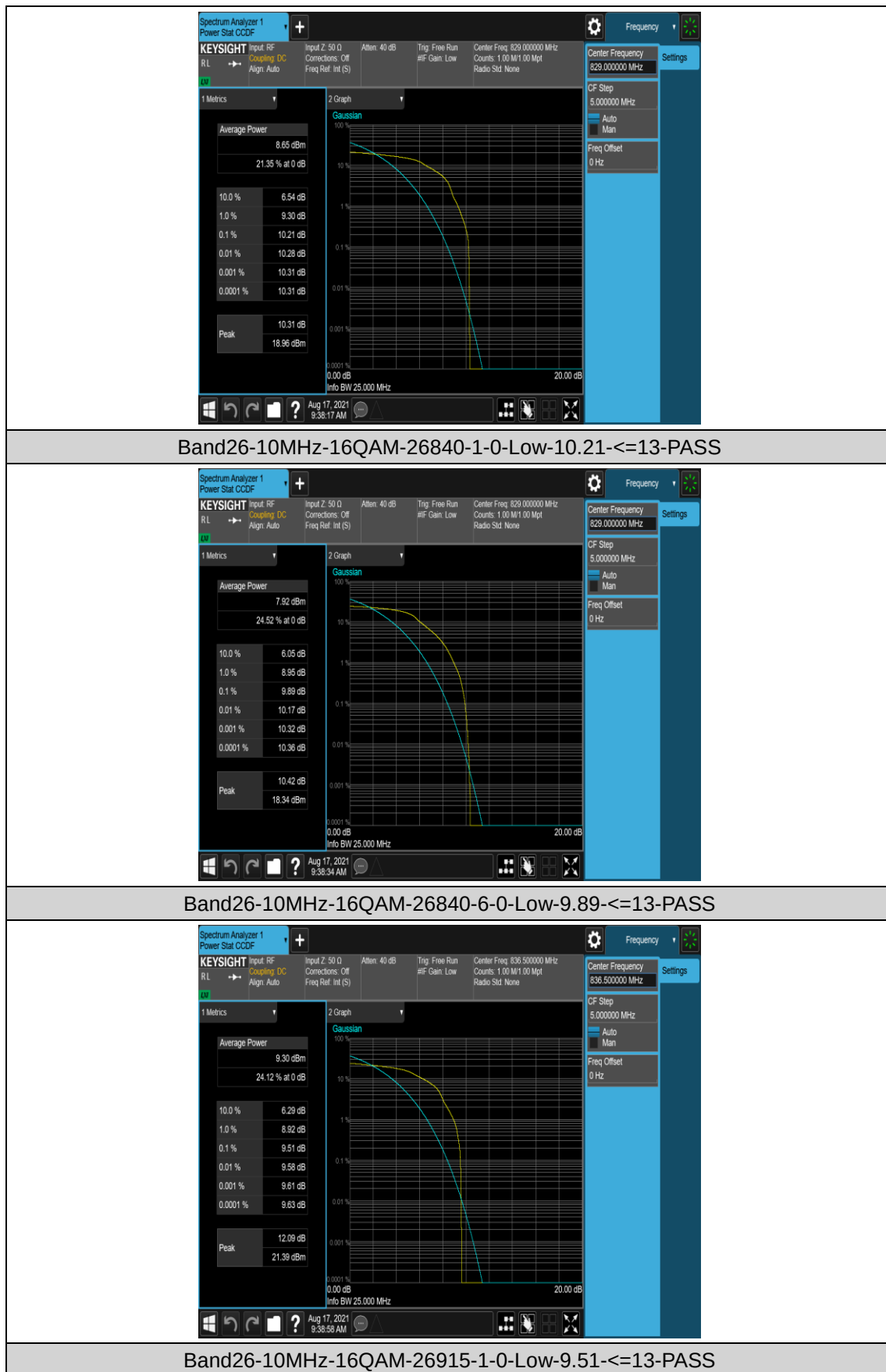


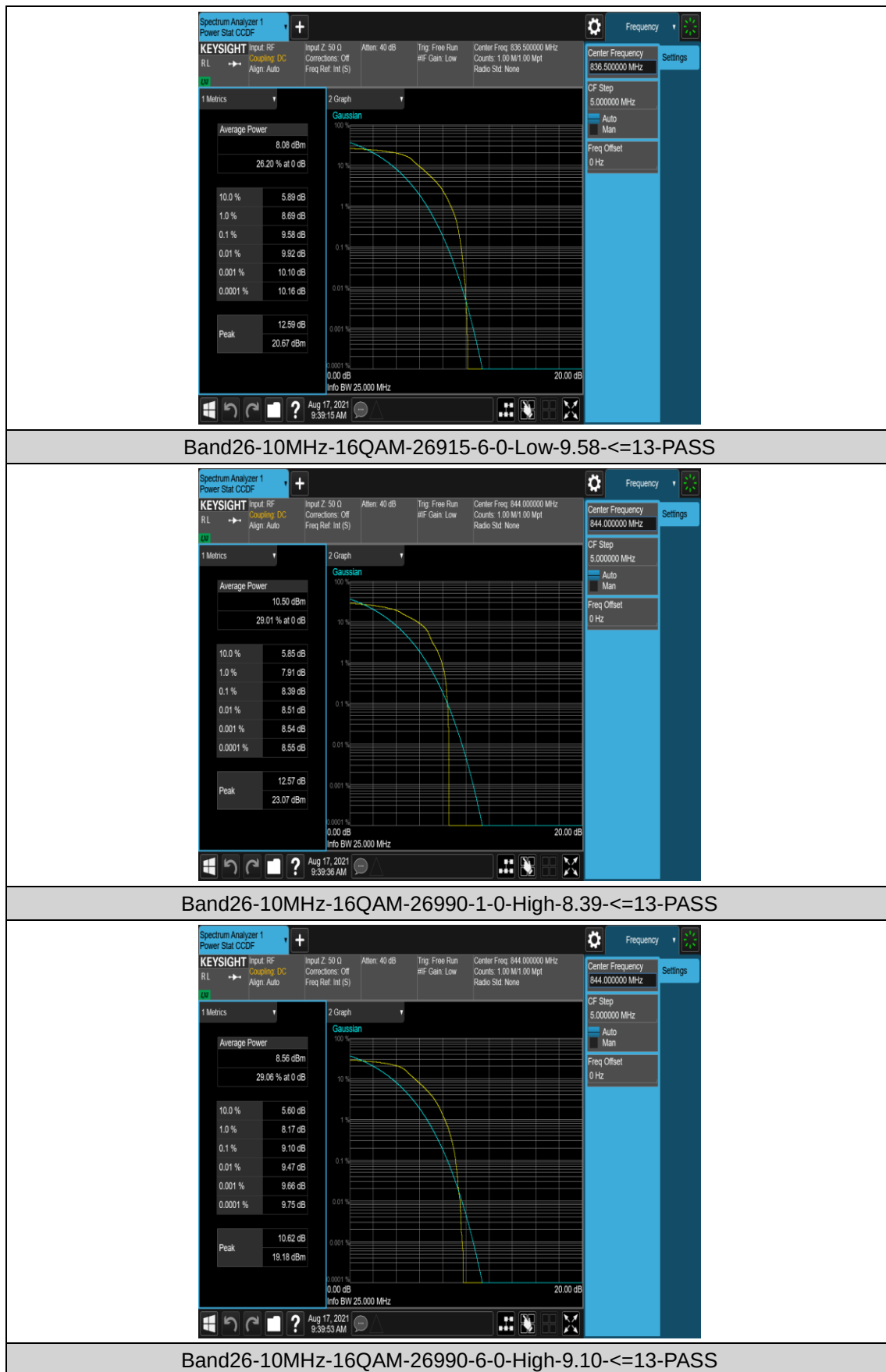
Band26-10MHz-QPSK-26840-6-0-Low-9.65-=<=13-PASS

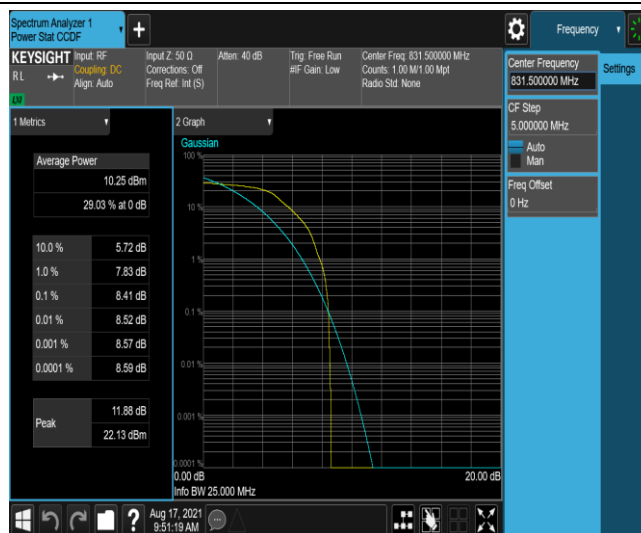


Band26-10MHz-QPSK-26915-1-0-Low-8.45-=<=13-PASS

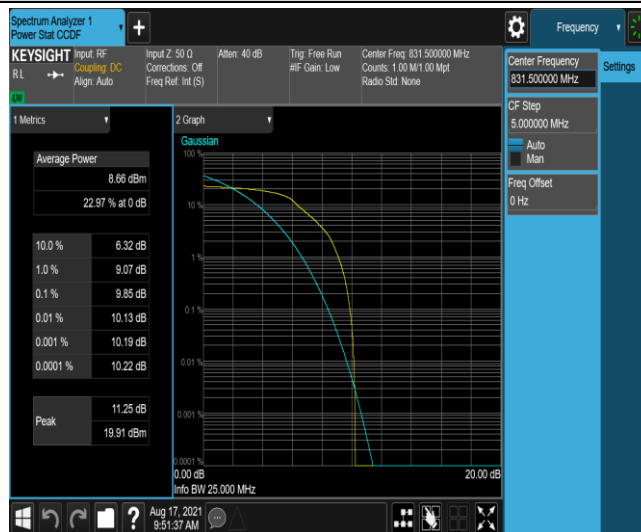








Band26-15MHz-QPSK-26865-1-0-Low-8.41-<=13-PASS



Band26-15MHz-QPSK-26865-6-0-Low-9.85-<=13-PASS



Band26-15MHz-QPSK-26915-1-0-Low-11.50-<=13-PASS

The screenshot shows the Keysight Spectrum Analyzer 1 interface. The main display area shows a Gaussian noise floor plot. The y-axis represents power in dBm, ranging from 20.00 dB to -25.18 dBm. The x-axis represents frequency in MHz, ranging from 0.00 MHz to 20.00 MHz. A yellow curve represents the noise floor, and a blue curve represents the noise floor plus 10 dB. The noise floor is approximately -15.25 dBm at 10.0% and -25.18 dBm at 0.0001%.

Level	Power (dBm)
Average Power	9.93 dBm
30.01 % at 0 dB	
10.0 %	5.60 dB
1.0 %	7.81 dB
0.1 %	8.45 dB
0.01 %	8.51 dB
0.001 %	8.55 dB
0.0001 %	8.57 dB
Peak	15.25 dB
	25.18 dBm

Settings:

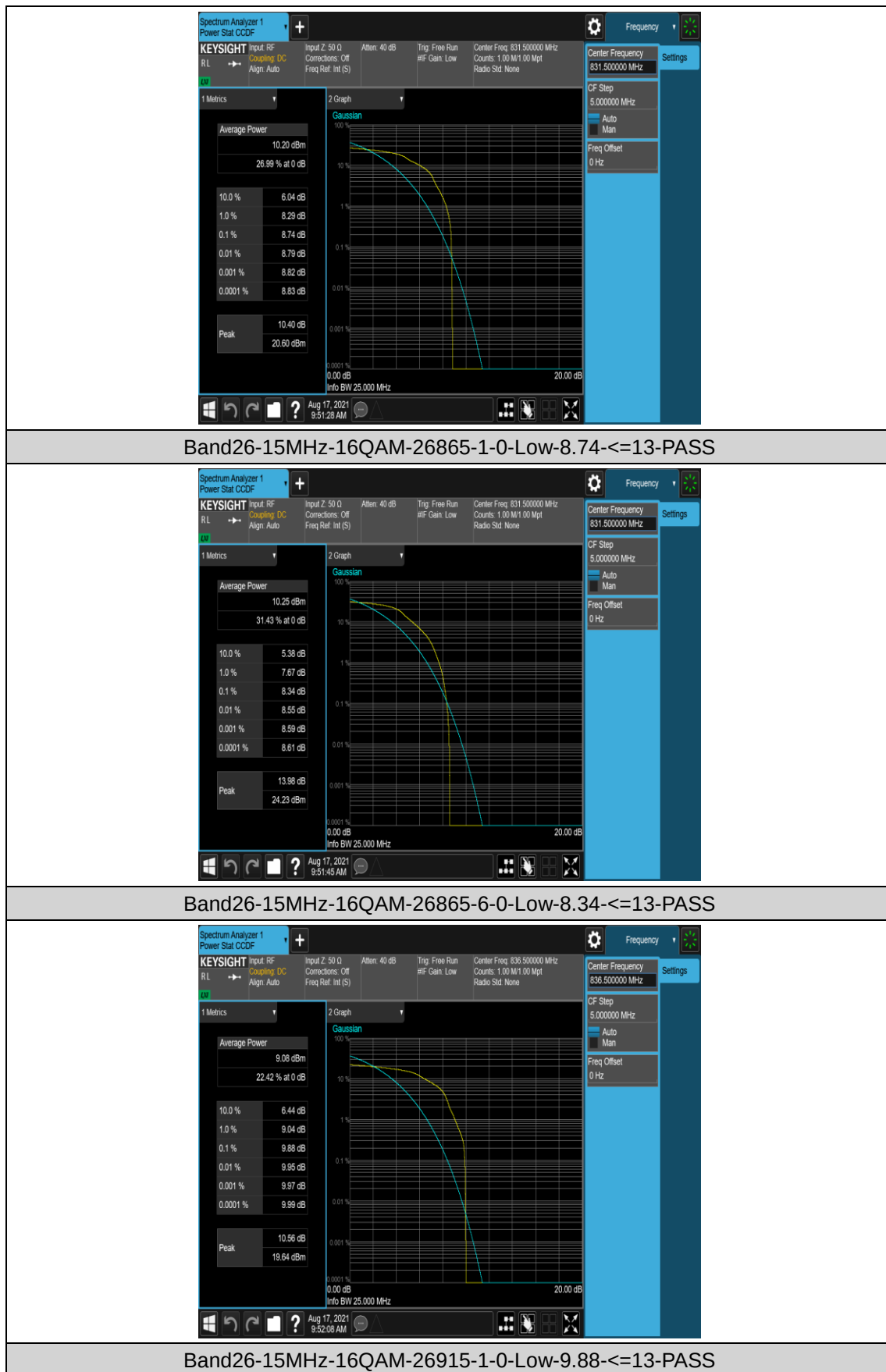
- Center Frequency: 841.000000 MHz
- CF Step: 5.000000 MHz
- Auto Man
- Freq Offset: 0 Hz

The screenshot shows the Keysight Spectrum Analyzer 1 interface. The main display area shows a Gaussian noise floor plot. The y-axis is logarithmic, ranging from 0.0001% to 100%. The x-axis is linear, ranging from 0.00 dB to 20.00 dB. The plot is titled 'Gaussian'. A yellow curve represents the noise floor, and a blue line represents the average power. The noise floor starts at approximately 10% at 0 dB and drops sharply to the noise floor level (0.0001%) at approximately 15 dB. The average power is shown as a horizontal blue line at approximately 28.21 dB.

Power Level	Frequency (dB)
Average Power	9.60 dBm
29.61 % at 0 dB	
10.0 %	5.56 dB
1.0 %	8.07 dB
0.1 %	8.72 dB
0.01 %	8.99 dB
0.001 %	9.09 dB
0.0001 %	9.10 dB
Peak	28.21 dB
	35.81 dBm

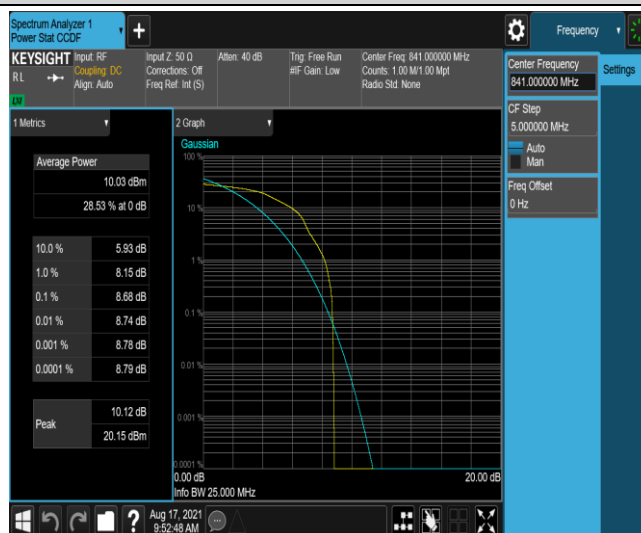
Additional information displayed on the interface includes:

- Input:** Z 50 Ω , Att: 40 dB, Trig: Free Run, #IF Gain: Low
- Center Freq:** 841.000000 MHz
- Counts:** 1.00 M/1.00 Mpt
- Radio Std:** None
- CF Step:** 5.000000 MHz
- CF Source:** Auto
- Freq Offset:** 0 Hz
- Resolution Bandwidth (RBW):** 25.000 MHz
- Video Bandwidth (VBW):** 25.000 MHz
- Power Stat:** CCDF
- Input:** RF
- Output:** Coupling: DC
- Align:** Auto
- Corrections:** Off
- Freq Ref:** Int (S)

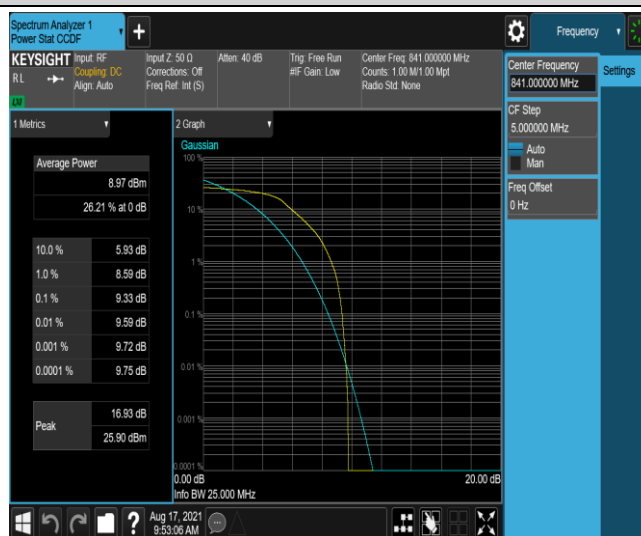




Band26-15MHz-16QAM-26915-6-0-Low-10.07-<=13-PASS



Band26-15MHz-16QAM-26960-1-0-High-8.68-<=13-PASS



Band26-15MHz-16QAM-26960-6-0-High-9.33-<=13-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	26797	QPSK	6	0	1.0877	1.247	PASS
Band26	1.4MHz	26915	QPSK	6	0	1.0899	1.242	PASS
Band26	1.4MHz	27033	QPSK	6	0	1.0863	1.250	PASS
Band26	1.4MHz	26797	16QAM	6	0	1.0865	1.239	PASS
Band26	1.4MHz	26915	16QAM	6	0	1.0896	1.238	PASS
Band26	1.4MHz	27033	16QAM	6	0	1.0874	1.246	PASS
Band26	3MHz	26805	QPSK	6	0	1.1090	1.271	PASS
Band26	3MHz	26915	QPSK	6	0	1.1123	1.285	PASS
Band26	3MHz	27025	QPSK	6	0	1.1055	1.287	PASS
Band26	3MHz	26805	16QAM	6	0	1.1038	1.275	PASS
Band26	3MHz	26915	16QAM	6	0	1.1094	1.269	PASS
Band26	3MHz	27025	16QAM	6	0	1.1073	1.288	PASS
Band26	5MHz	26815	QPSK	6	0	1.1670	1.351	PASS
Band26	5MHz	26915	QPSK	6	0	1.1744	1.361	PASS
Band26	5MHz	27015	QPSK	6	0	1.1605	1.341	PASS
Band26	5MHz	26815	16QAM	6	0	1.1614	1.350	PASS
Band26	5MHz	26915	16QAM	6	0	1.1708	1.370	PASS
Band26	5MHz	27015	16QAM	6	0	1.1582	1.339	PASS
Band26	10MHz	26840	QPSK	6	0	1.2959	1.567	PASS
Band26	10MHz	26915	QPSK	6	0	1.2970	1.574	PASS
Band26	10MHz	26990	QPSK	6	0	1.2987	1.560	PASS
Band26	10MHz	26840	16QAM	6	0	1.3034	1.564	PASS
Band26	10MHz	26915	16QAM	6	0	1.2972	1.573	PASS
Band26	10MHz	26990	16QAM	6	0	1.2944	1.564	PASS
Band26	15MHz	26865	QPSK	6	0	1.2976	1.577	PASS
Band26	15MHz	26915	QPSK	6	0	1.2974	1.569	PASS
Band26	15MHz	26960	QPSK	6	0	1.2948	1.570	PASS
Band26	15MHz	26865	16QAM	6	0	1.3048	1.575	PASS
Band26	15MHz	26915	16QAM	6	0	1.2988	1.569	PASS
Band26	15MHz	26960	16QAM	6	0	1.2917	1.575	PASS

Test Graphs

