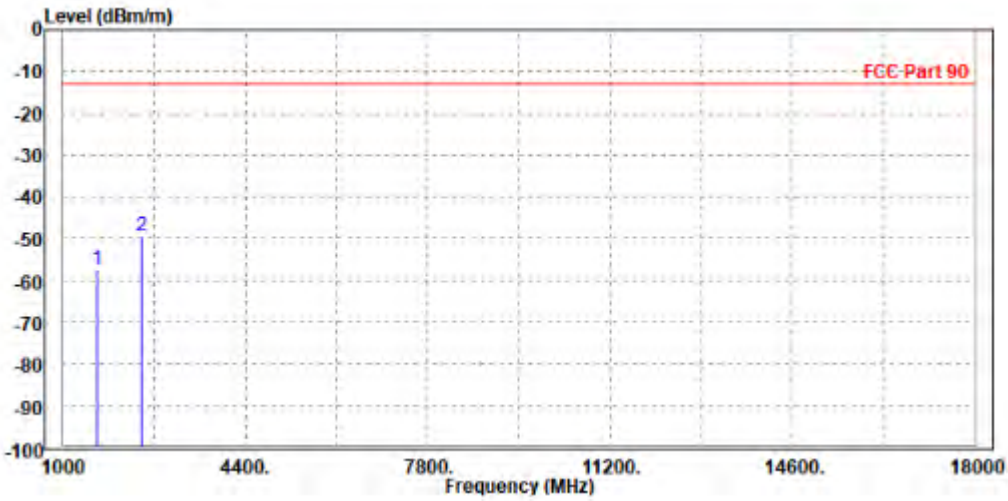
MODE	TX channel 26740	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1638.000	-57.26	-58.22	-13.00	-44.26	0.96	Peak	Vertical
2 PP	2462.000	-49.37	-54.21	-13.00	-36.37	4.84	Peak	Vertical

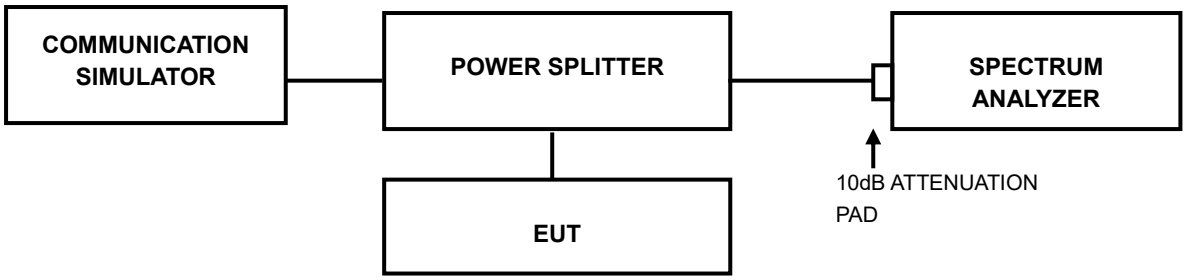


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.

4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Shenzhen EMC/RF Lab:
Tel: +86-755-88696566
Fax: +86-755-88696577

Email: customerservice.sw@bureauveritas.com
Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

6 APPENDIX

LTE BAND26

PEAK-TO-AVERAGE RATIO(CCDF)

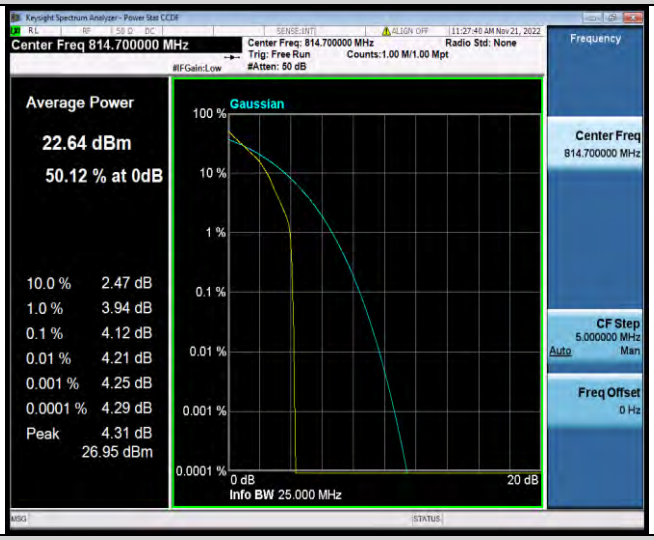
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	4.12	13	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	4.62	13	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	3.89	13	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	4.46	13	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	4.03	13	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	4.68	13	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	5.03	13	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	5.48	13	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	4.80	13	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	5.34	13	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	4.84	13	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	5.50	13	PASS
Band26	1.4MHz	64QAM	26697	1RB#0	5.87	13	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	6.17	13	PASS
Band26	1.4MHz	64QAM	26740	1RB#0	5.59	13	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	5.94	13	PASS
Band26	1.4MHz	64QAM	26783	1RB#0	5.84	13	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	6.19	13	PASS
Band26	3MHz	QPSK	26705	1RB#0	4.05	13	PASS
Band26	3MHz	QPSK	26705	15RB#0	4.70	13	PASS
Band26	3MHz	QPSK	26740	1RB#0	3.96	13	PASS
Band26	3MHz	QPSK	26740	15RB#0	4.54	13	PASS
Band26	3MHz	QPSK	26775	1RB#0	3.94	13	PASS
Band26	3MHz	QPSK	26775	15RB#0	4.61	13	PASS
Band26	3MHz	16QAM	26705	1RB#0	4.85	13	PASS
Band26	3MHz	16QAM	26705	15RB#0	5.54	13	PASS
Band26	3MHz	16QAM	26740	1RB#0	4.80	13	PASS
Band26	3MHz	16QAM	26740	15RB#0	5.39	13	PASS
Band26	3MHz	16QAM	26775	1RB#0	4.73	13	PASS
Band26	3MHz	16QAM	26775	15RB#0	5.45	13	PASS
Band26	3MHz	64QAM	26705	1RB#0	5.67	13	PASS
Band26	3MHz	64QAM	26705	15RB#0	6.18	13	PASS
Band26	3MHz	64QAM	26740	1RB#0	5.73	13	PASS
Band26	3MHz	64QAM	26740	15RB#0	6.07	13	PASS
Band26	3MHz	64QAM	26775	1RB#0	5.48	13	PASS
Band26	3MHz	64QAM	26775	15RB#0	6.10	13	PASS
Band26	5MHz	QPSK	26715	1RB#0	4.04	13	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.65	13	PASS
Band26	5MHz	QPSK	26740	1RB#0	4.06	13	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.55	13	PASS

Band26	5MHz	QPSK	26765	1RB#0	3.88	13	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.52	13	PASS
Band26	5MHz	16QAM	26715	1RB#0	4.82	13	PASS
Band26	5MHz	16QAM	26715	25RB#0	5.48	13	PASS
Band26	5MHz	16QAM	26740	1RB#0	4.69	13	PASS
Band26	5MHz	16QAM	26740	25RB#0	5.40	13	PASS
Band26	5MHz	16QAM	26765	1RB#0	4.68	13	PASS
Band26	5MHz	16QAM	26765	25RB#0	5.38	13	PASS
Band26	5MHz	64QAM	26715	1RB#0	5.68	13	PASS
Band26	5MHz	64QAM	26715	25RB#0	6.07	13	PASS
Band26	5MHz	64QAM	26740	1RB#0	5.67	13	PASS
Band26	5MHz	64QAM	26740	25RB#0	6.01	13	PASS
Band26	5MHz	64QAM	26765	1RB#0	5.38	13	PASS
Band26	5MHz	64QAM	26765	25RB#0	6.02	13	PASS
Band26	10MHz	QPSK	26740	1RB#0	4.04	13	PASS
Band26	10MHz	QPSK	26740	50RB#0	4.64	13	PASS
Band26	10MHz	16QAM	26740	1RB#0	4.78	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	5.50	13	PASS
Band26	10MHz	64QAM	26740	1RB#0	5.65	13	PASS
Band26	10MHz	64QAM	26740	50RB#0	6.05	13	PASS
Band26	15MHz	QPSK	26765	1RB#0	4.08	13	PASS
Band26	15MHz	QPSK	26765	75RB#0	5.04	13	PASS
Band26	15MHz	16QAM	26765	1RB#0	4.84	13	PASS
Band26	15MHz	16QAM	26765	75RB#0	5.72	13	PASS
Band26	15MHz	64QAM	26765	1RB#0	5.67	13	PASS
Band26	15MHz	64QAM	26765	75RB#0	6.16	13	PASS

Test Graphs

Band26-1.4MHz-QPSK-26697-1RB#0



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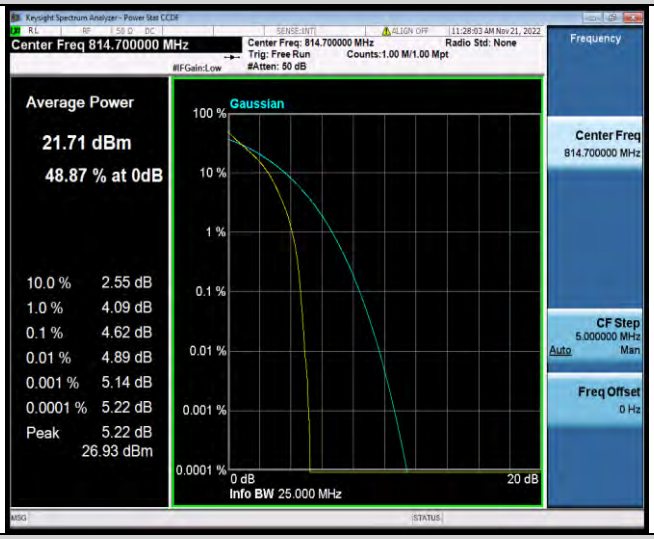

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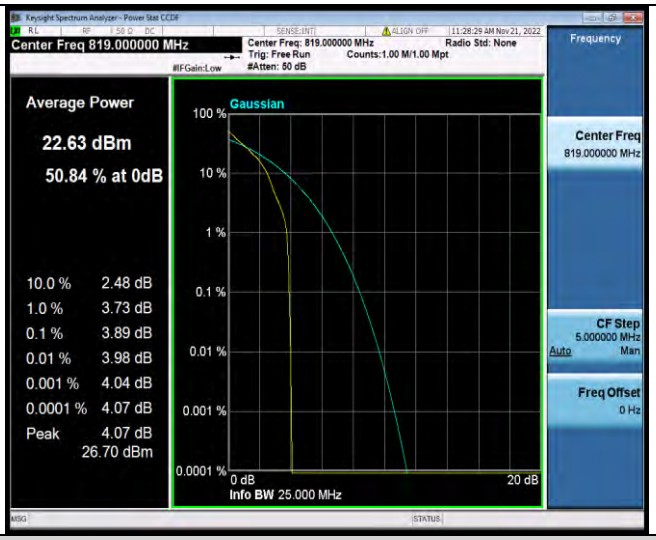

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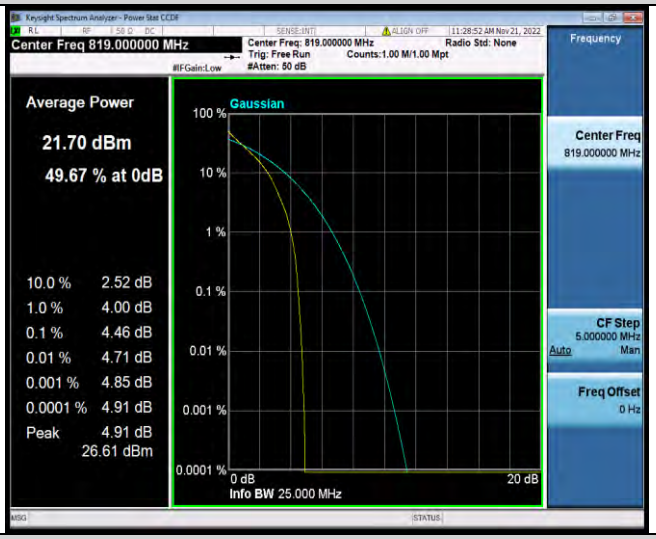

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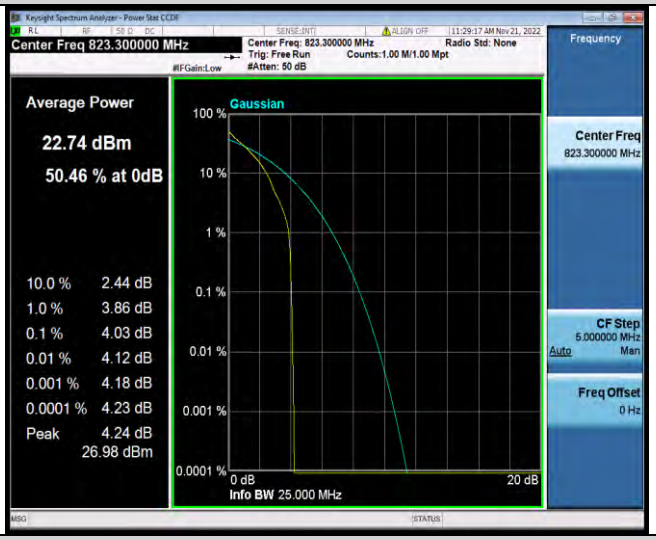

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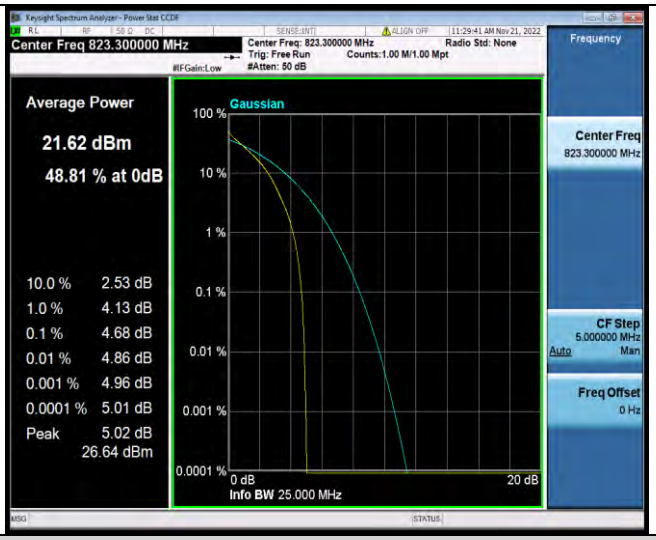

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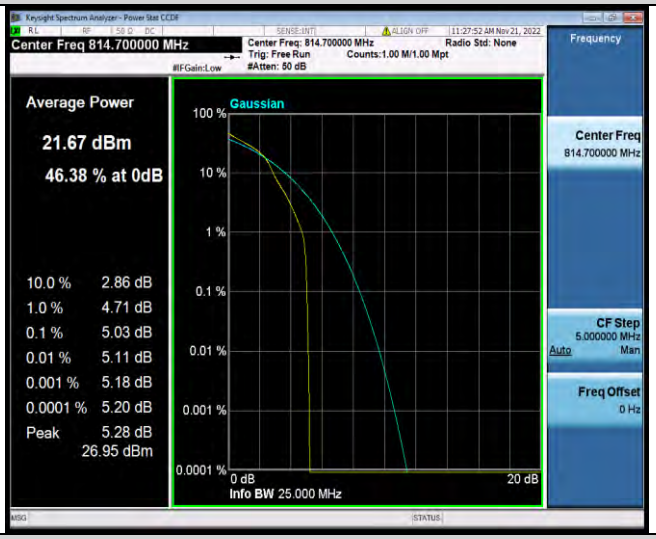

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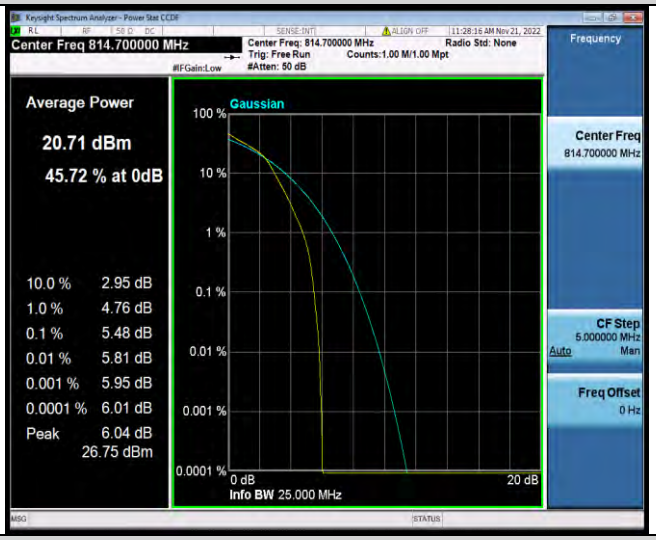

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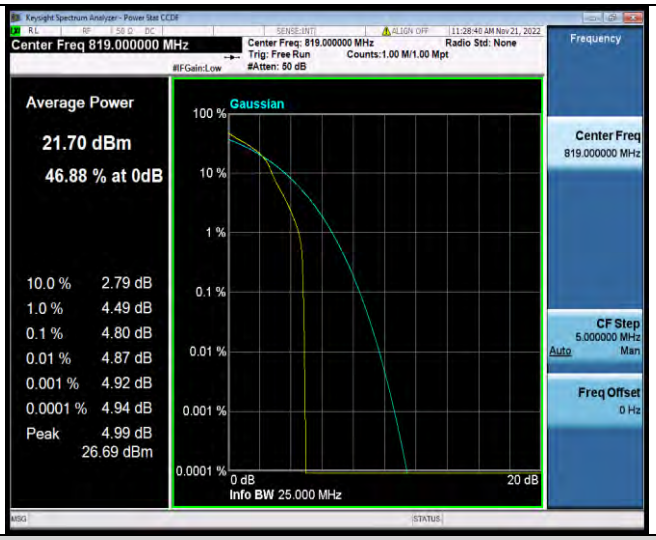

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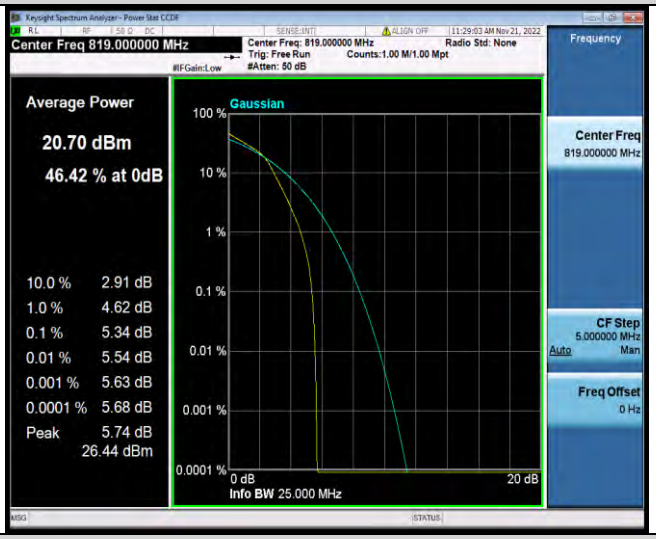

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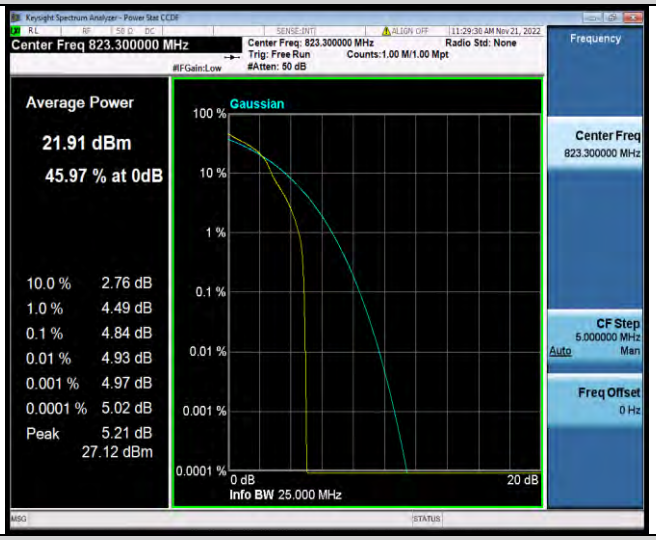

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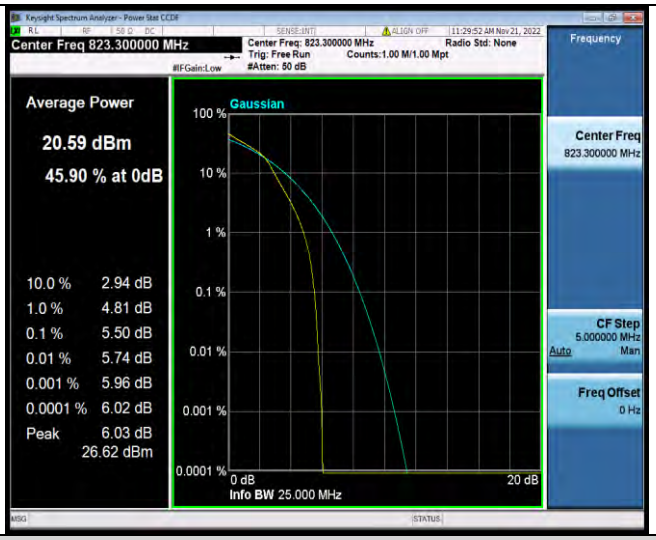

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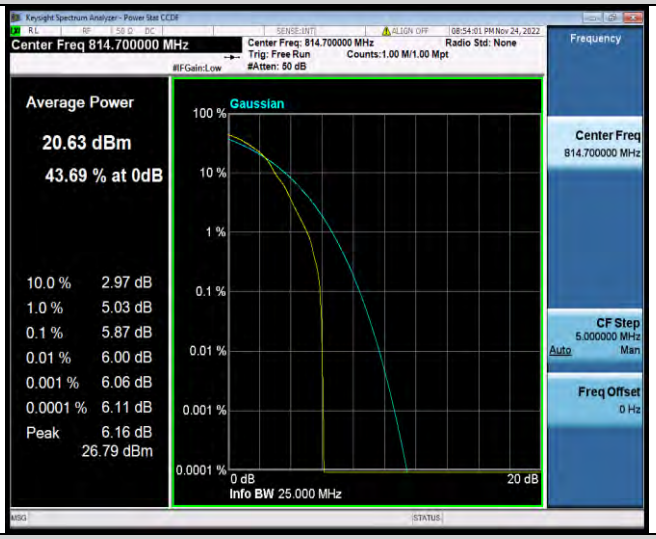

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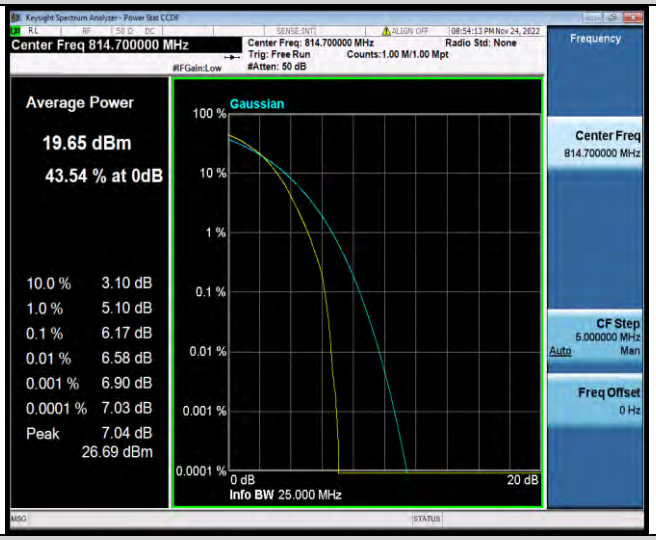

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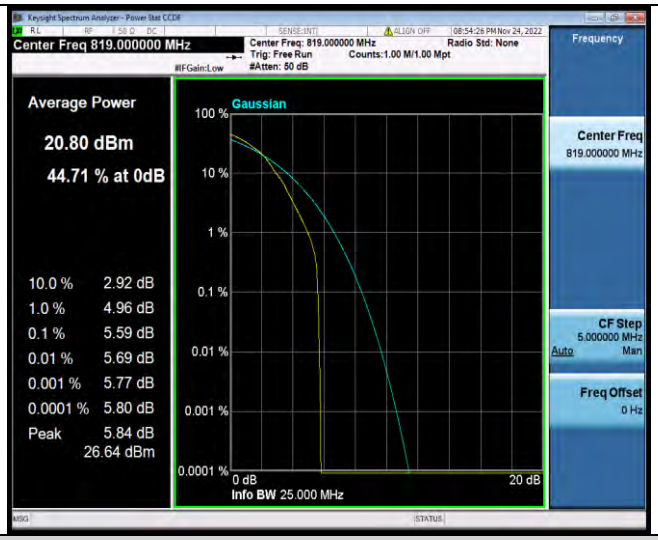

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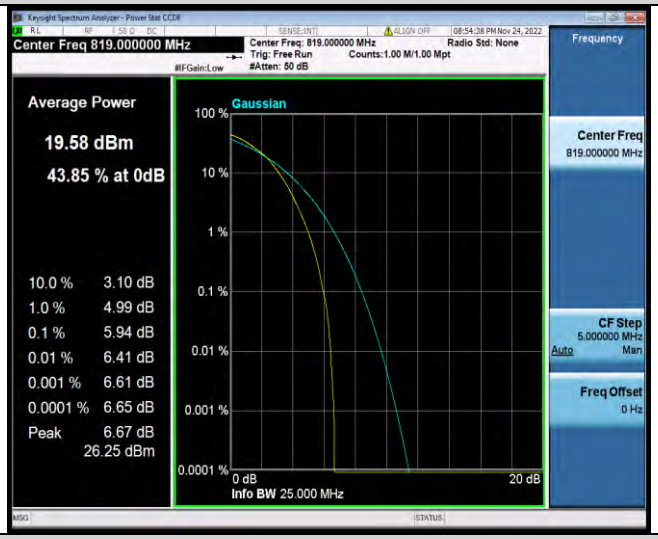

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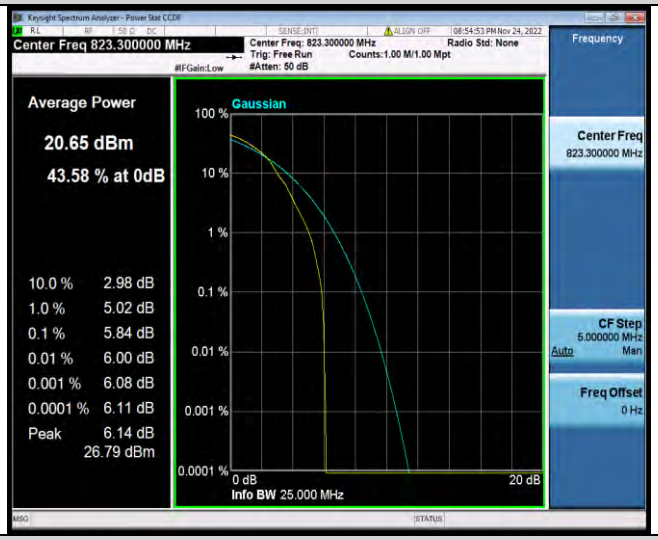

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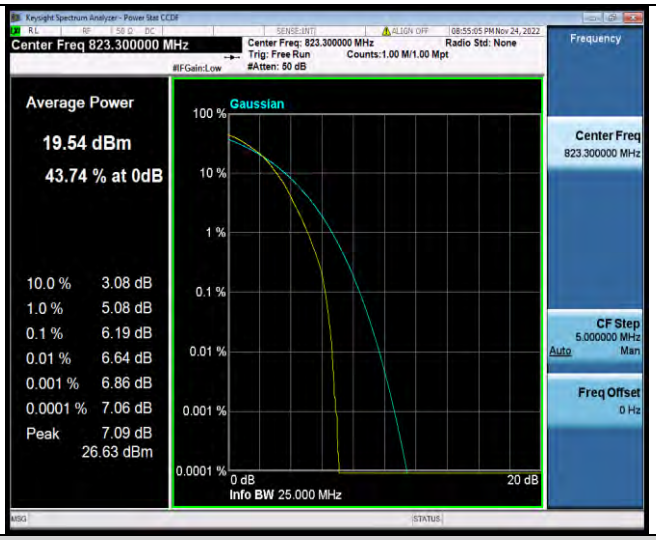

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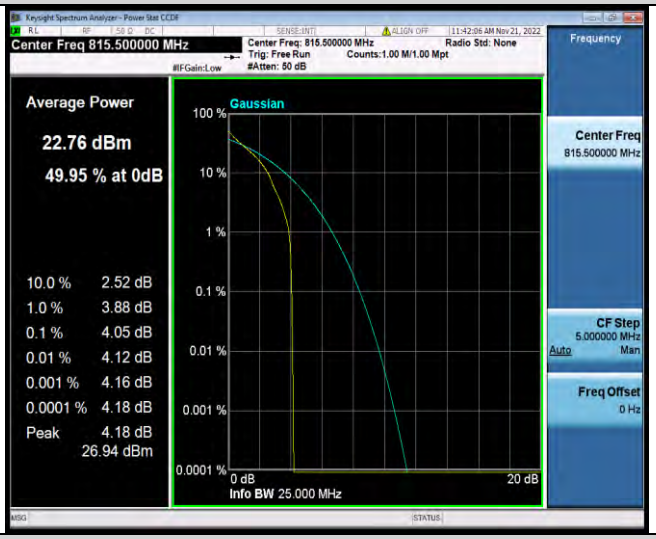

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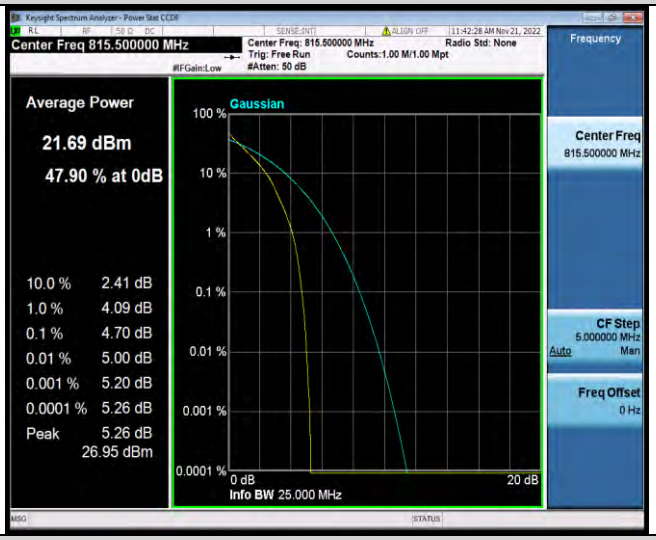

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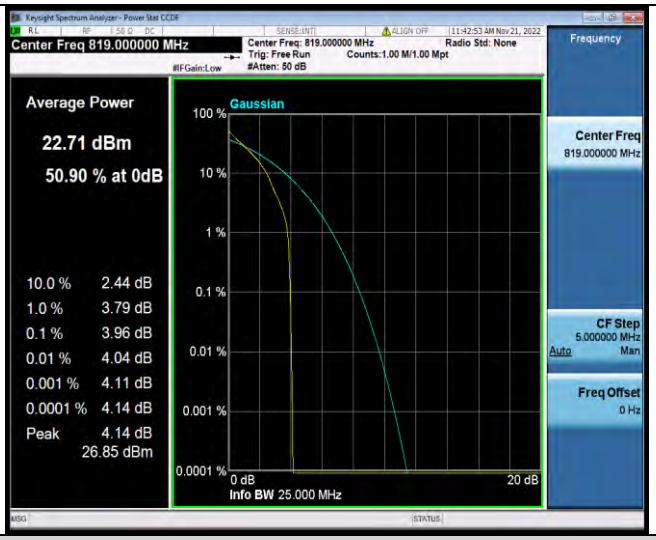

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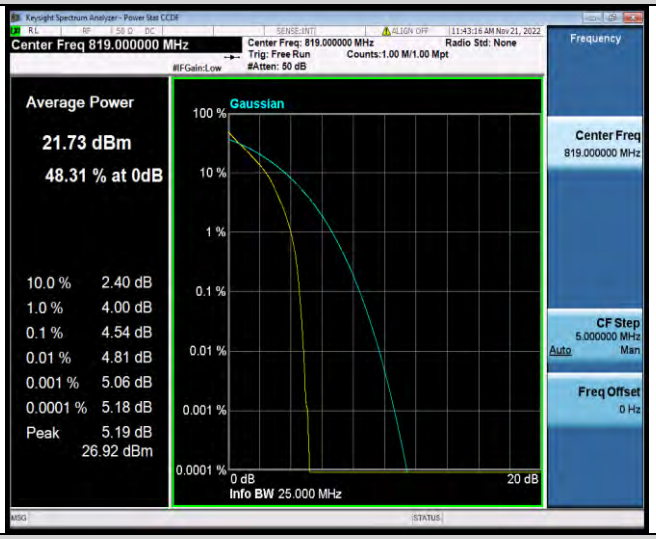

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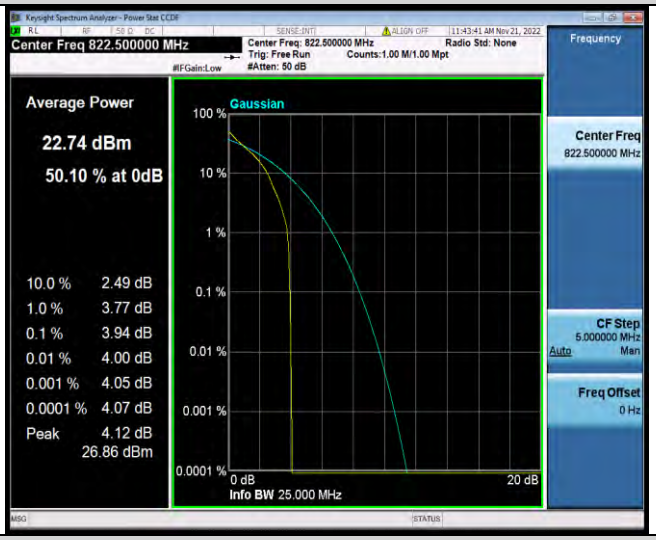

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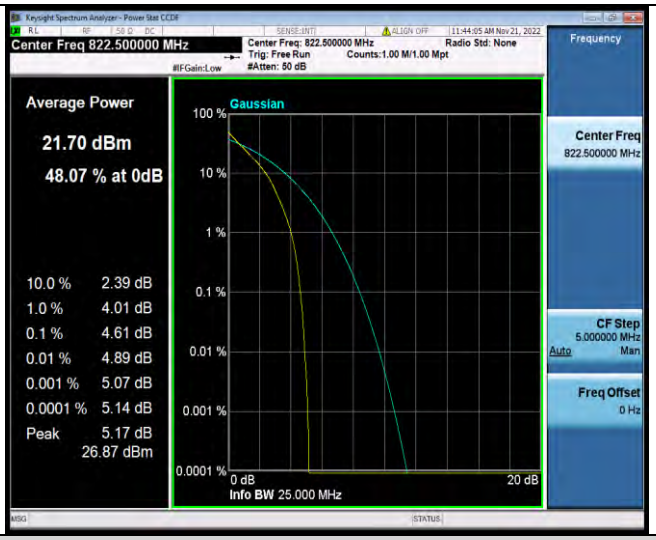

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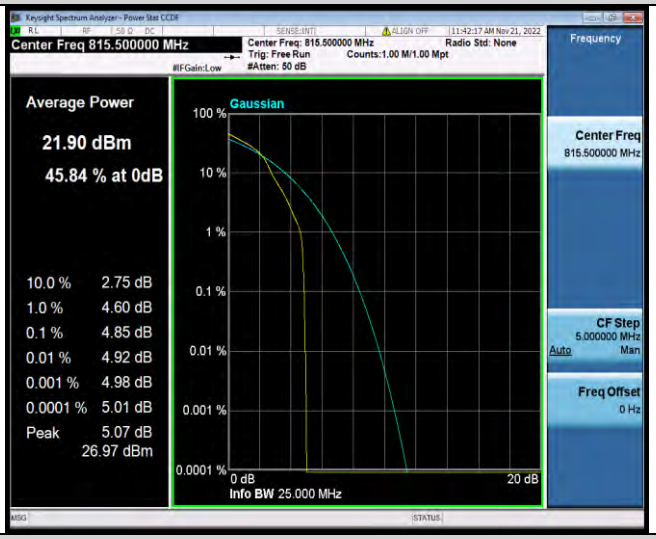

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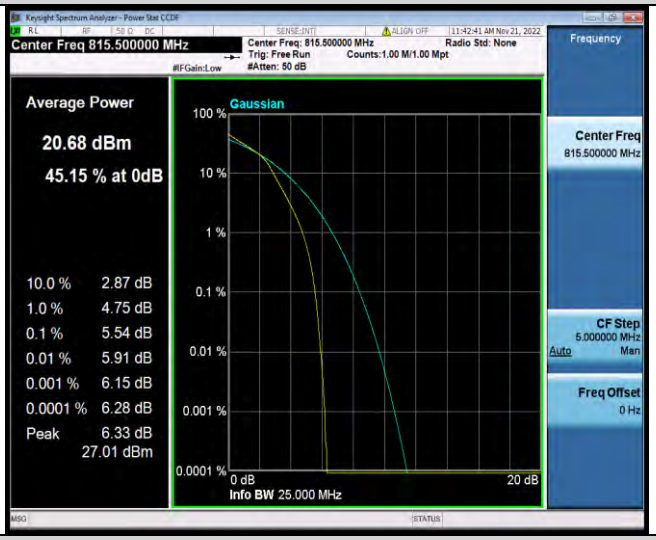

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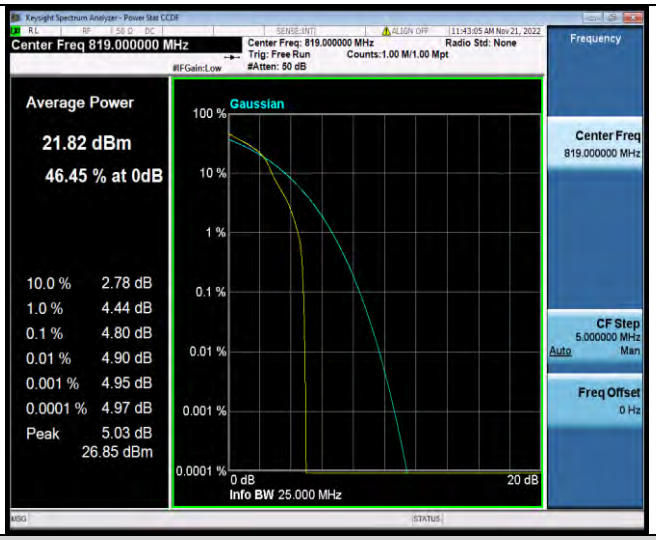

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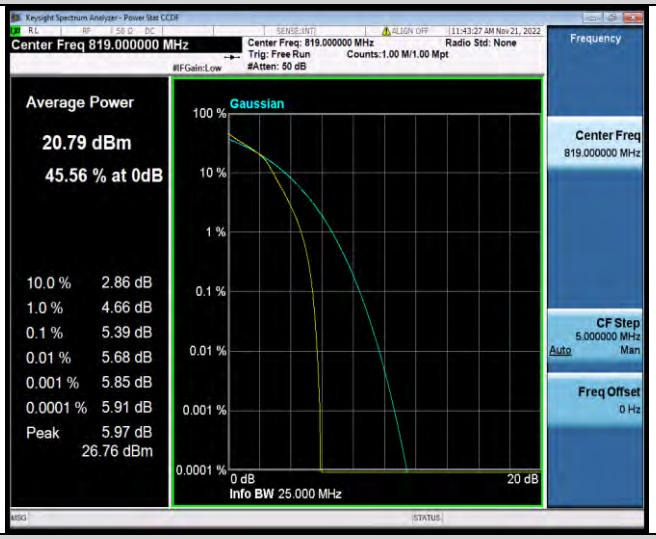

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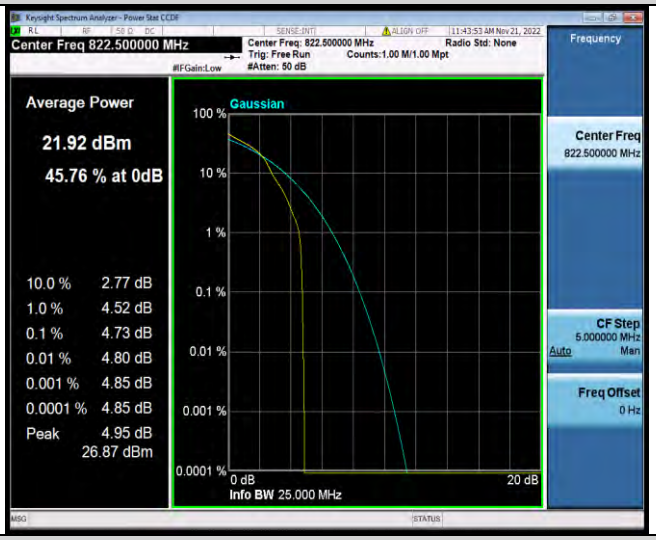

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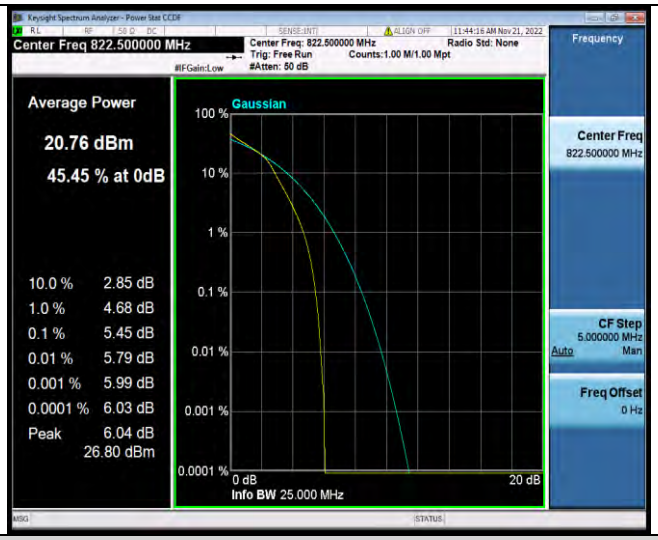
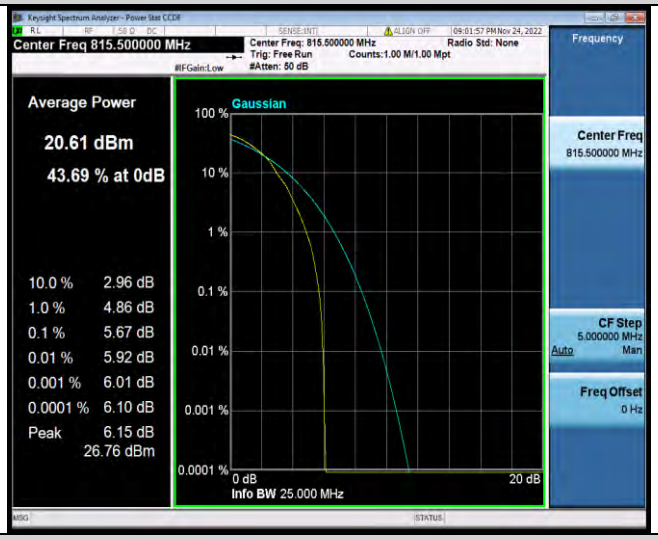


Band26-3MHz-64QAM-26705-1RB#0



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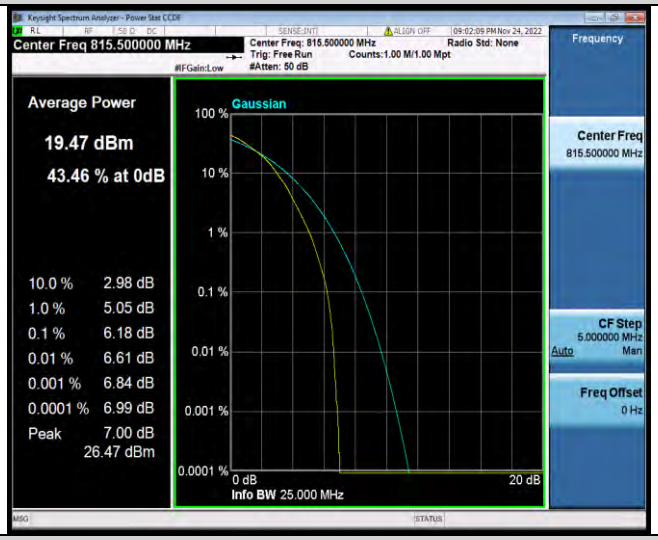

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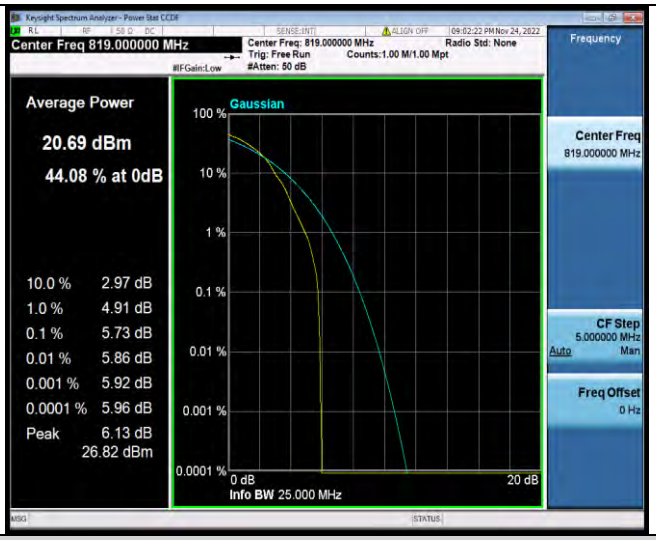
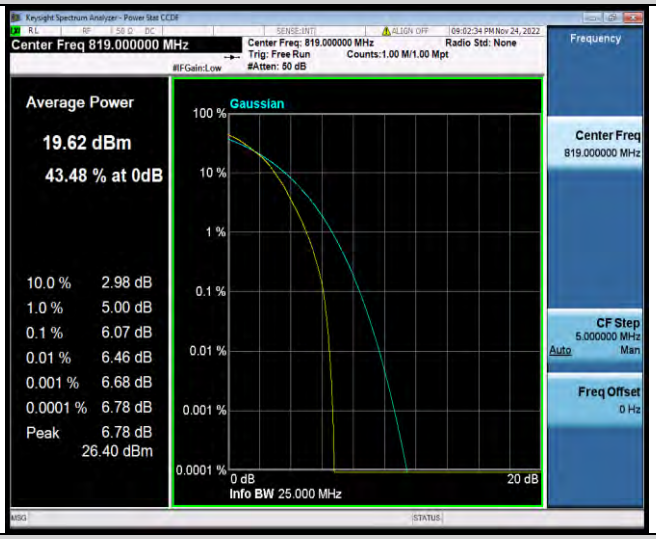
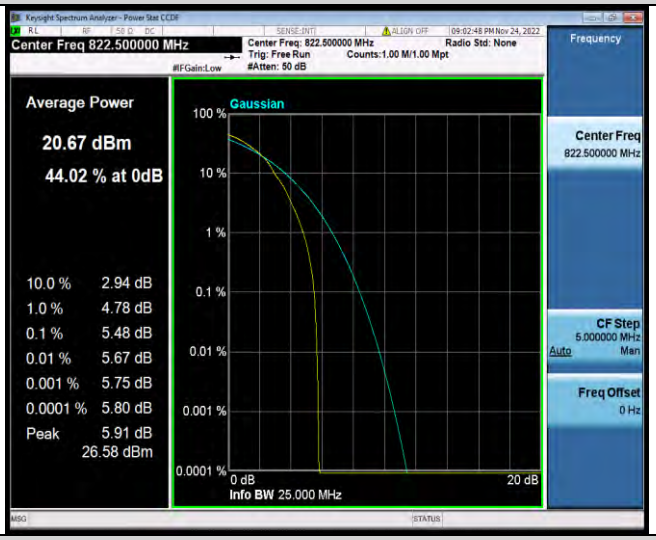


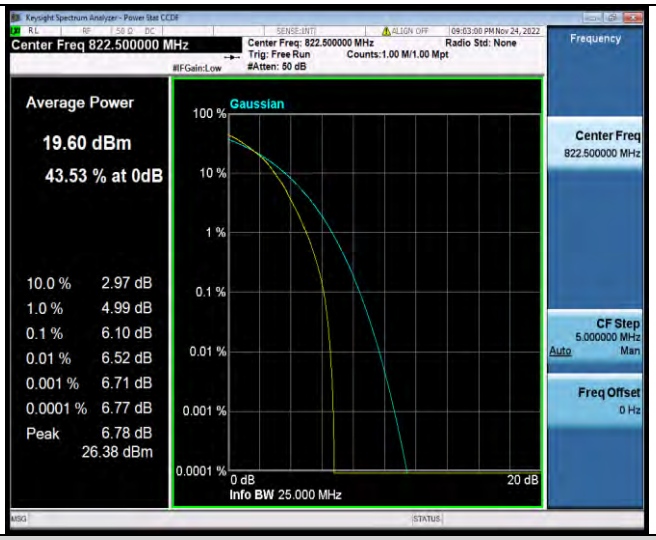
Band26-3MHz-64QAM-26740-15RB#0



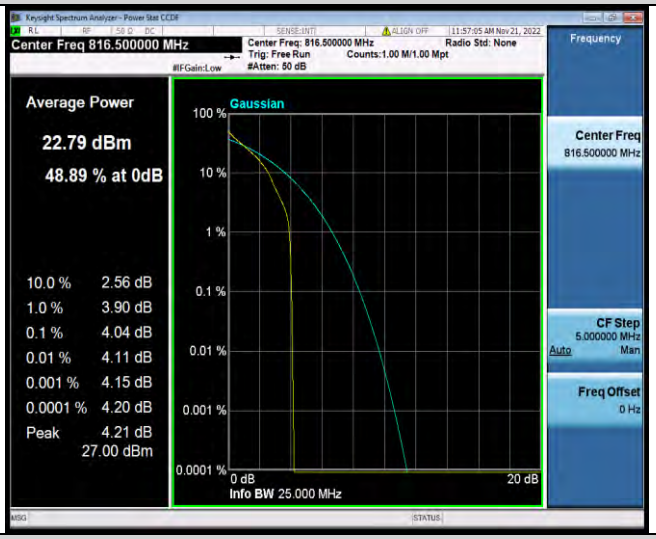
Band26-3MHz-64QAM-26775-1RB#0



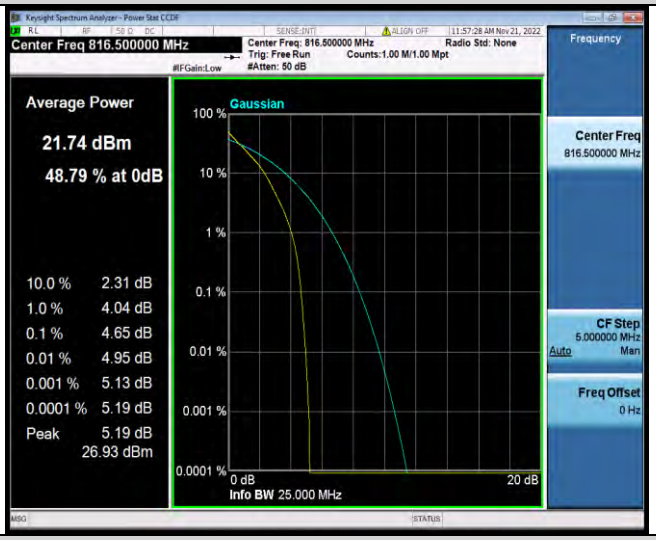
Band26-3MHz-64QAM-26775-15RB#0



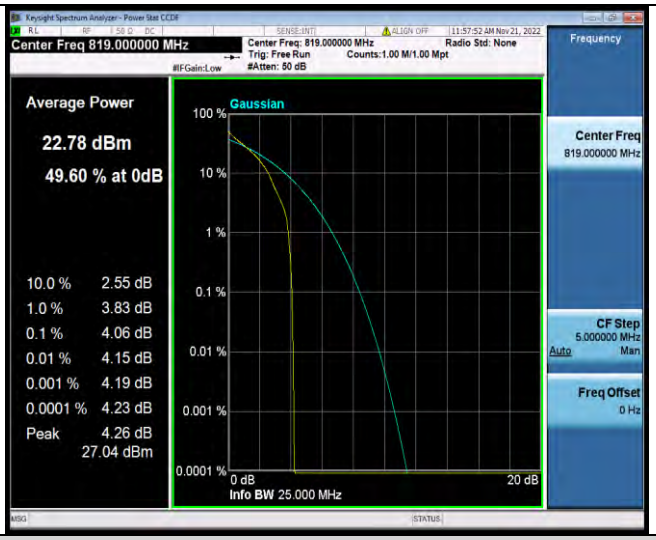
Band26-5MHz-QPSK-26715-1RB#0



Band26-5MHz-QPSK-26715-25RB#0



Band26-5MHz-QPSK-26740-1RB#0



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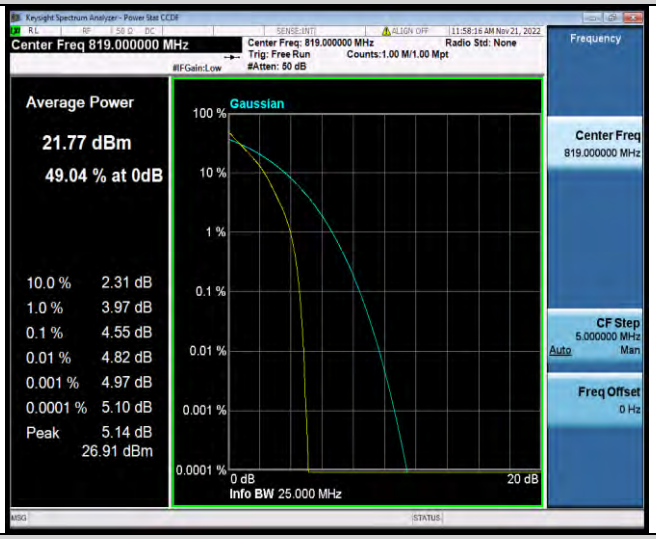
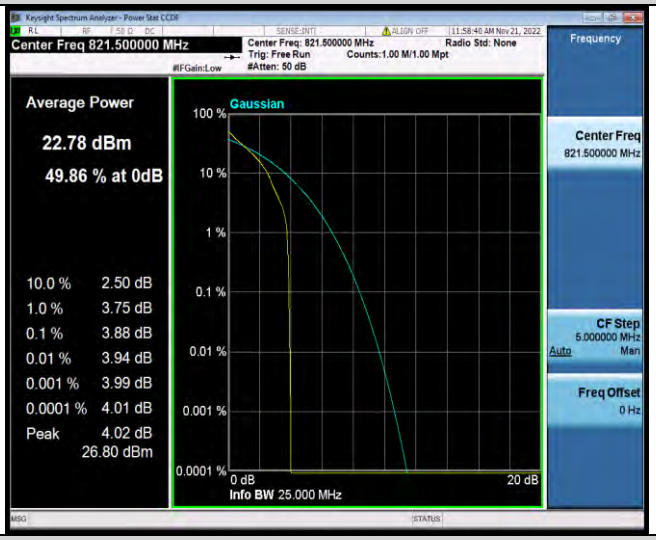
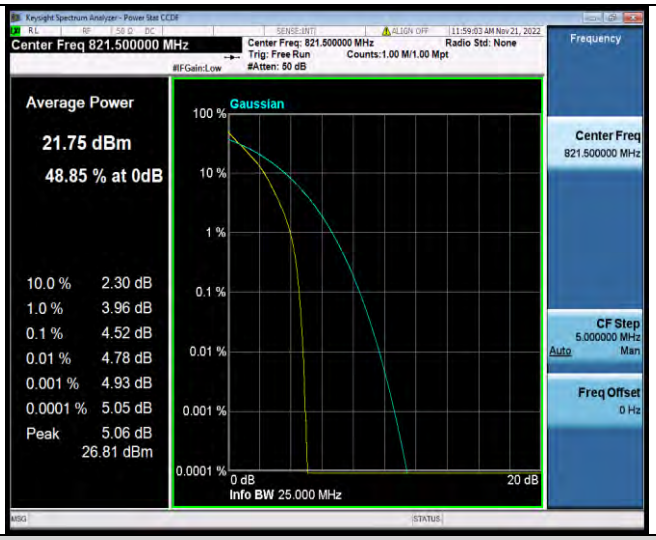


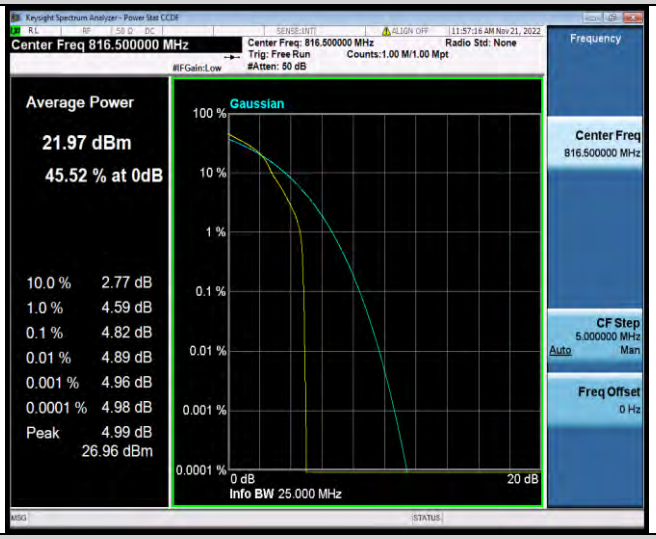
Band26-5MHz-QPSK-26765-1RB#0



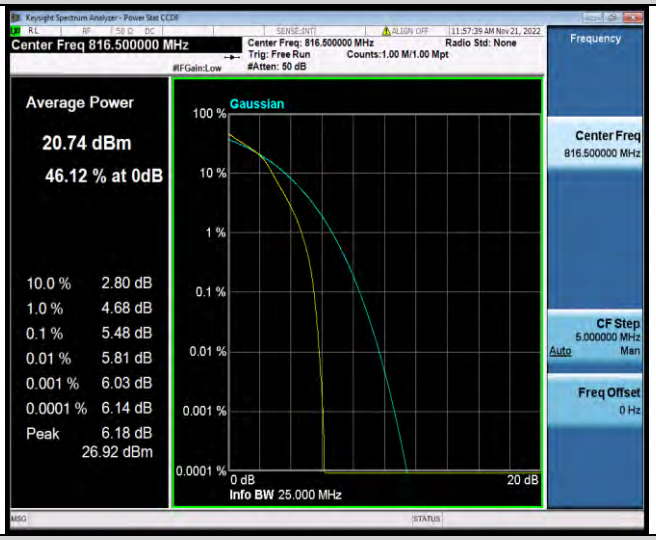
Band26-5MHz-QPSK-26765-25RB#0



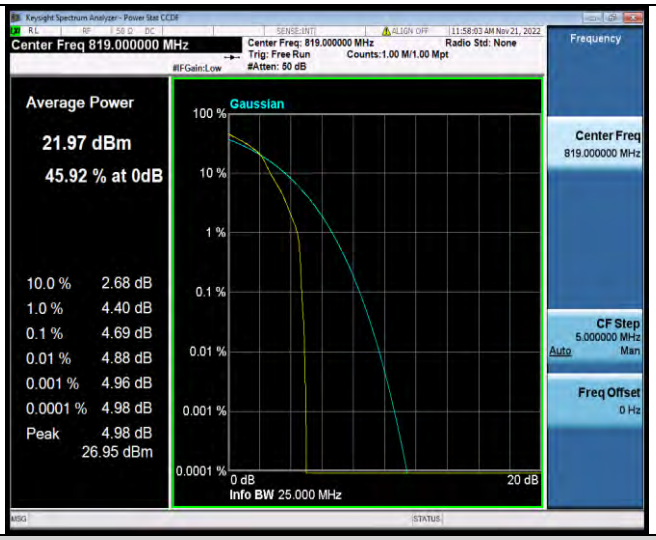
Band26-5MHz-16QAM-26715-1RB#0



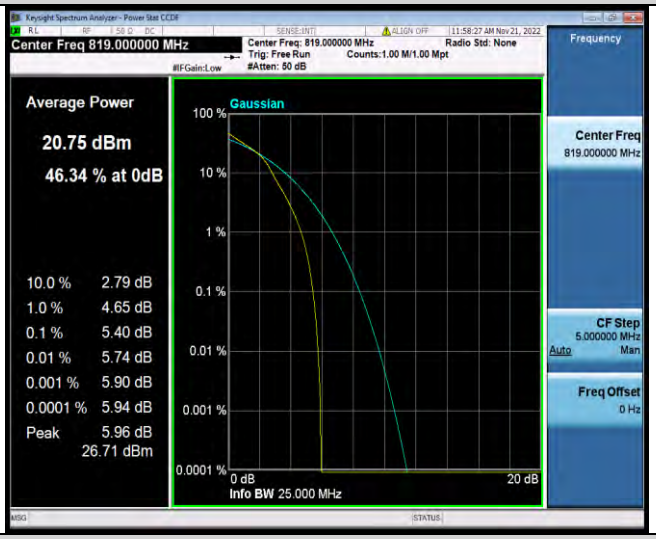
Band26-5MHz-16QAM-26715-25RB#0



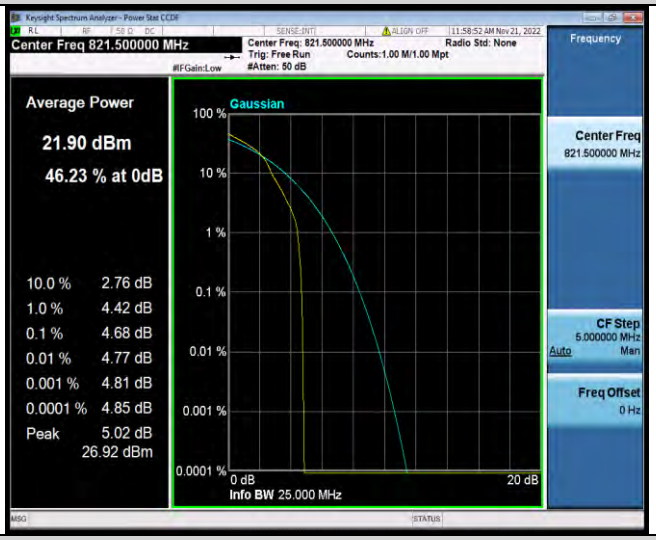
Band26-5MHz-16QAM-26740-1RB#0



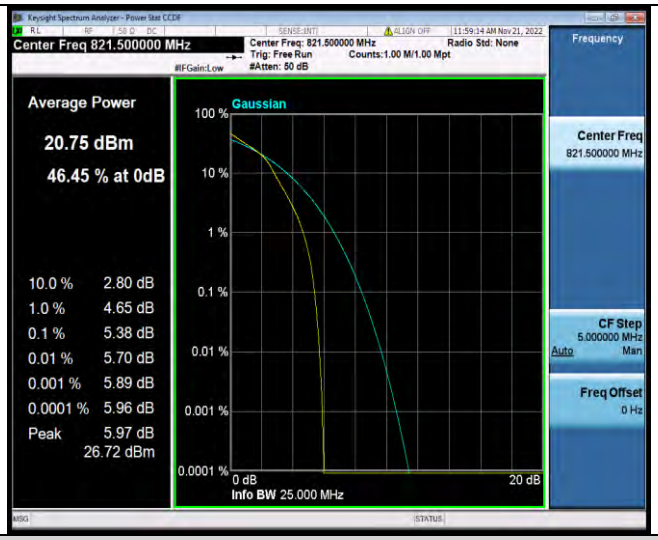
Band26-5MHz-16QAM-26740-25RB#0



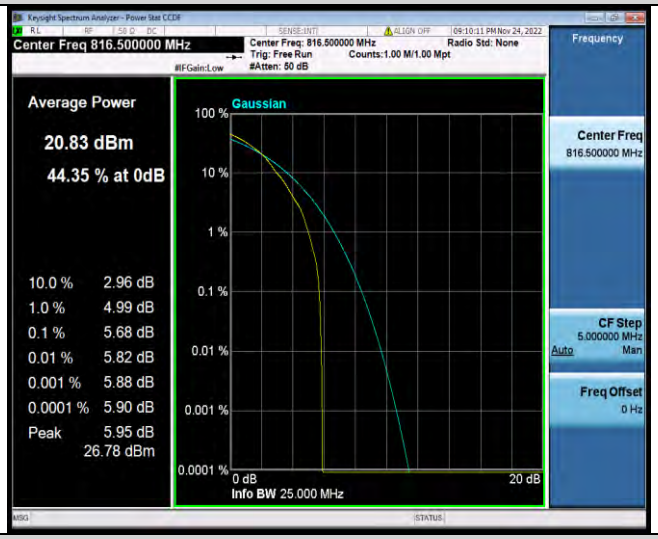
Band26-5MHz-16QAM-26765-1RB#0



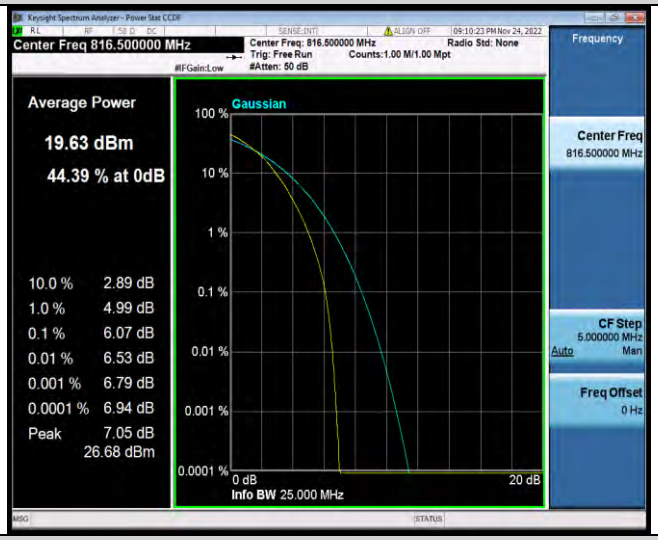
Band26-5MHz-16QAM-26765-25RB#0



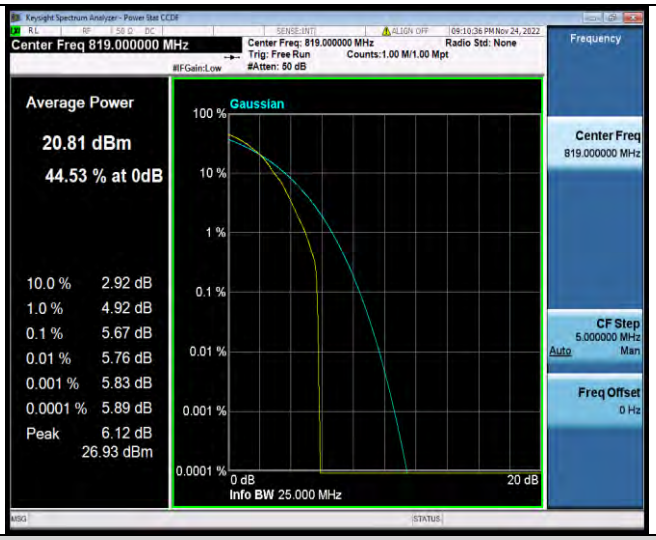
Band26-5MHz-64QAM-26715-1RB#0



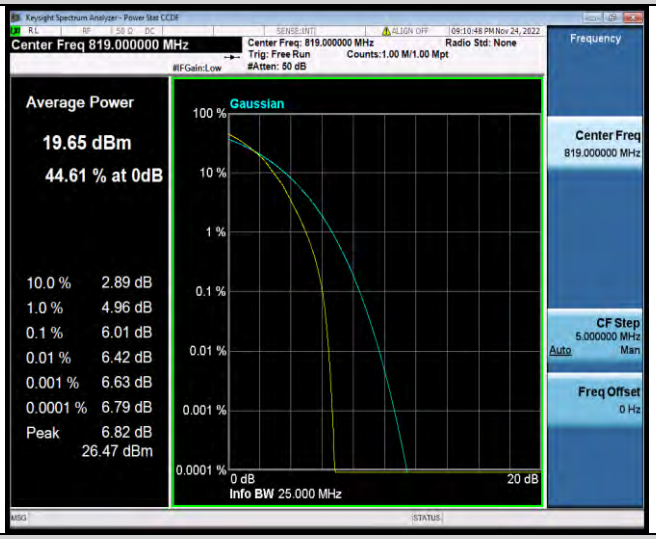
Band26-5MHz-64QAM-26715-25RB#0



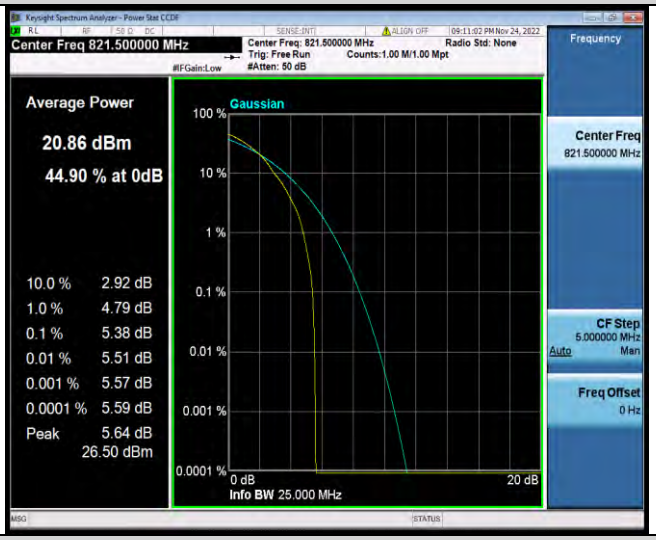
Band26-5MHz-64QAM-26740-1RB#0



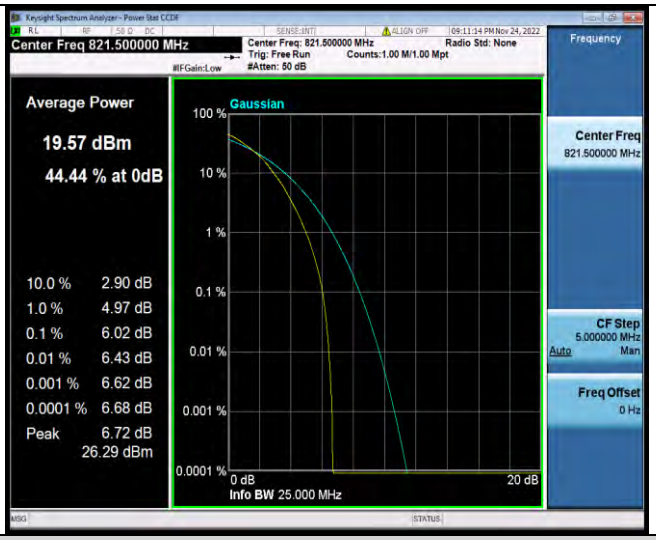
Band26-5MHz-64QAM-26740-25RB#0



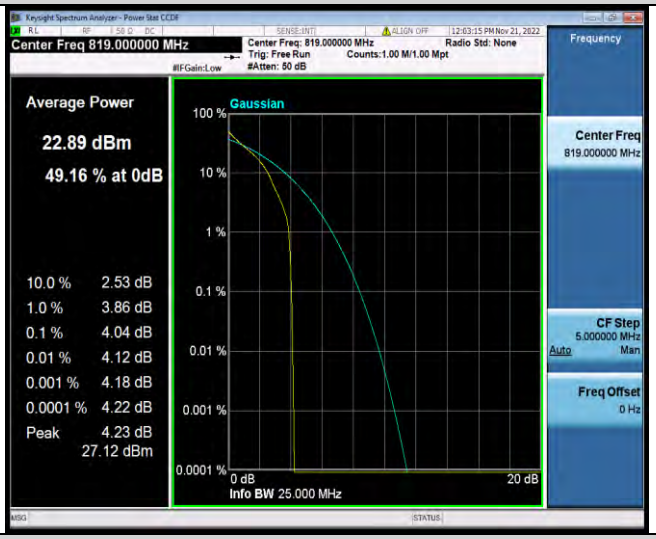
Band26-5MHz-64QAM-26765-1RB#0



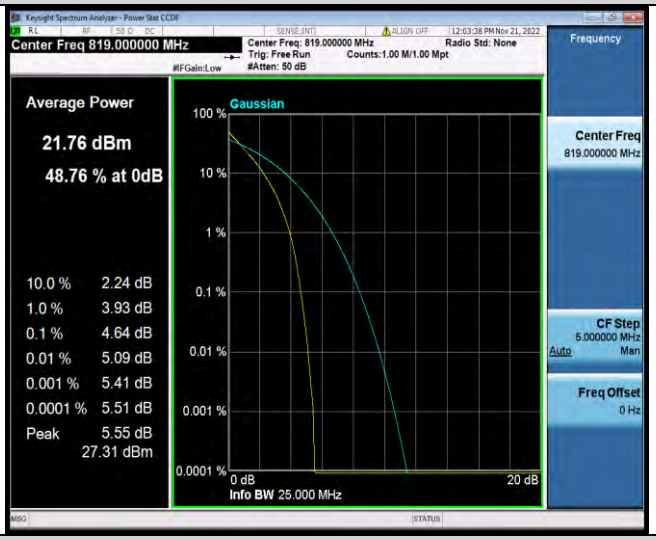
Band26-5MHz-64QAM-26765-25RB#0



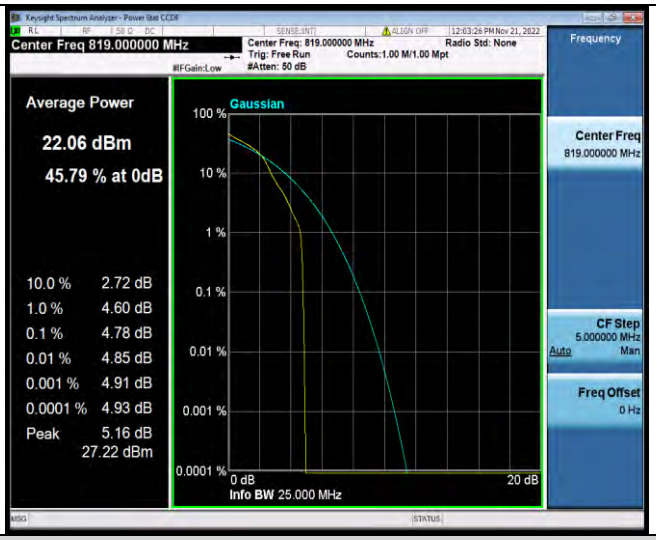
Band26-10MHz-QPSK-26740-1RB#0



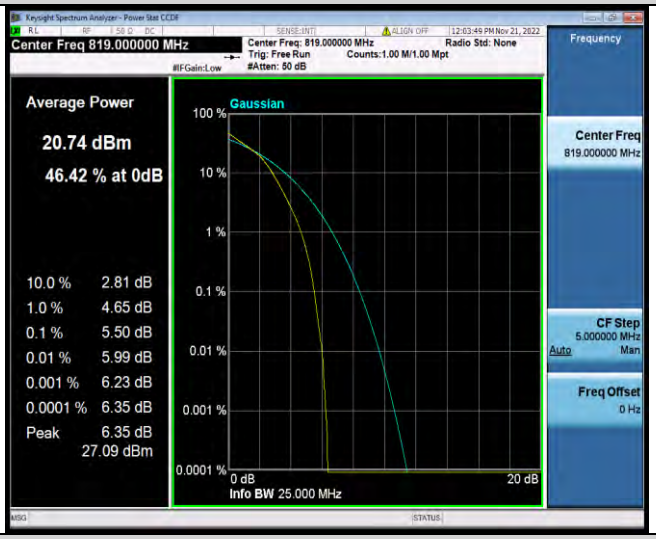
Band26-10MHz-QPSK-26740-50RB#0



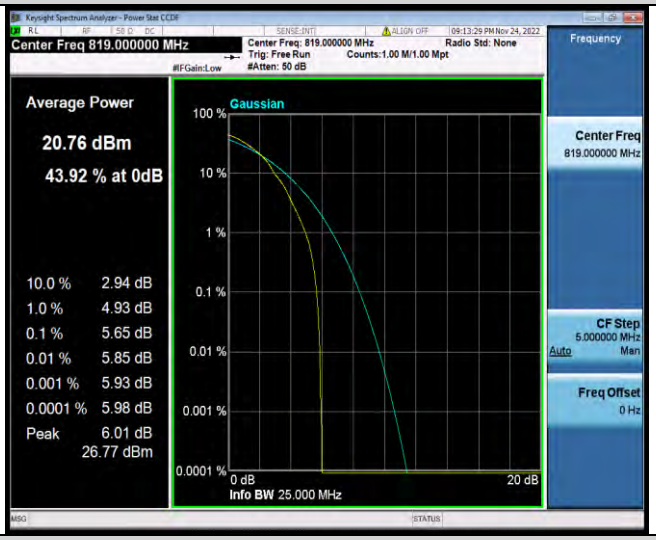
Band26-10MHz-16QAM-26740-1RB#0



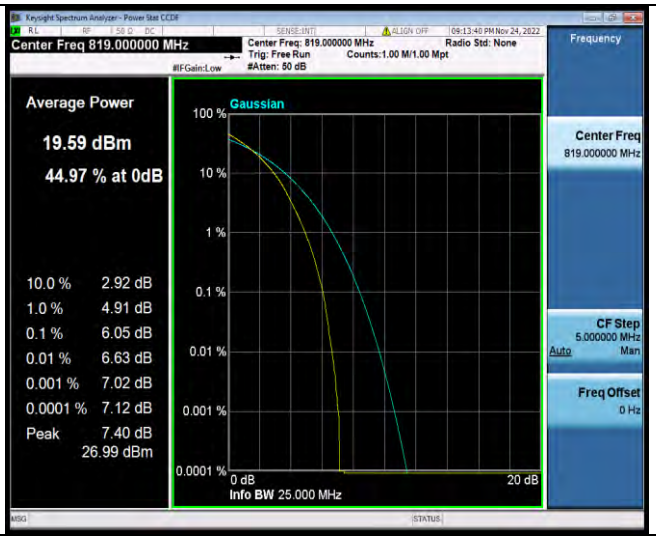
Band26-10MHz-16QAM-26740-50RB#0



Band26-10MHz-64QAM-26740-1RB#0



Band26-10MHz-64QAM-26740-50RB#0


Keysight Spectrum Analyzer - Power Stat CCDF
Center Freq 819.000000 MHz
Center Freq: 819.000000 MHz
Trig: Free Run
Counts:1.00 M/1.00 Mpt
#Atten: 50 dB
Radio Std: None
Frequency
Average Power
19.59 dBm
44.97 % at 0dB
10.0 % 2.92 dB
1.0 % 4.91 dB
0.1 % 6.05 dB
0.01 % 6.63 dB
0.001 % 7.02 dB
0.0001 % 7.12 dB
Peak 7.40 dB
26.99 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz
Center Freq
819.000000 MHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

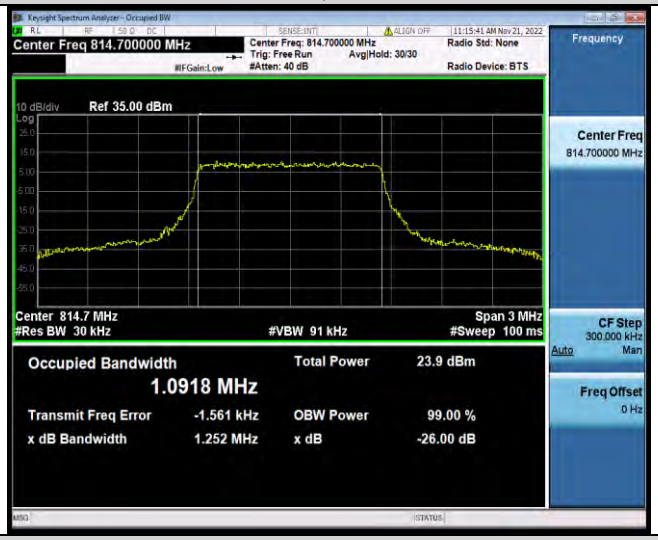
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.0918	1.252	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.0891	1.260	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.0921	1.257	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.0894	1.266	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.0885	1.242	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.0902	1.274	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	1.0888	1.253	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	1.0920	1.253	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	1.0909	1.246	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.6913	2.915	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.6975	2.915	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.6927	2.894	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.6922	2.928	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.6933	2.912	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.6913	2.899	PASS
Band26	3MHz	64QAM	26705	15RB#0	2.6989	2.915	PASS
Band26	3MHz	64QAM	26740	15RB#0	2.6967	2.891	PASS
Band26	3MHz	64QAM	26775	15RB#0	2.6954	2.912	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.4980	4.883	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.4942	4.879	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.5001	4.912	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.5041	4.890	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.4961	4.910	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.5029	4.905	PASS
Band26	5MHz	64QAM	26715	25RB#0	4.4925	4.841	PASS
Band26	5MHz	64QAM	26740	25RB#0	4.4923	4.866	PASS
Band26	5MHz	64QAM	26765	25RB#0	4.4959	4.856	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.9631	9.581	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.9635	9.550	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.9486	9.522	PASS
Band26	15MHz	QPSK	26765	75RB#0	13.460	14.37	PASS
Band26	15MHz	16QAM	26765	75RB#0	13.448	14.27	PASS
Band26	15MHz	64QAM	26765	75RB#0	13.450	14.26	PASS

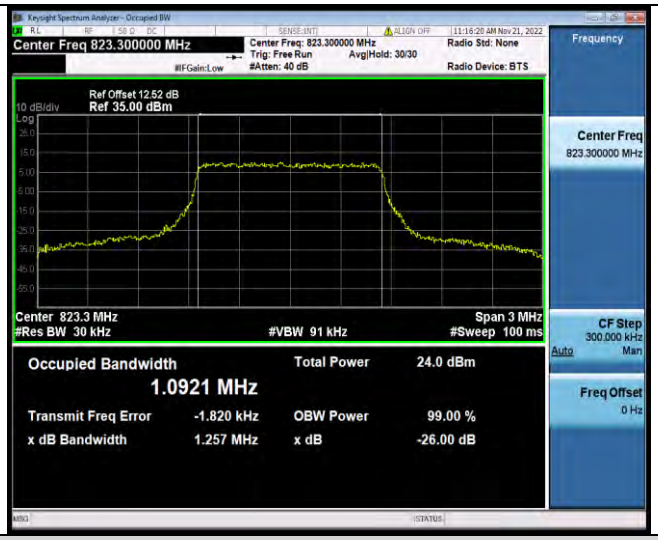
Test Graphs

Band26-1.4MHz-QPSK-26697-6RB#0



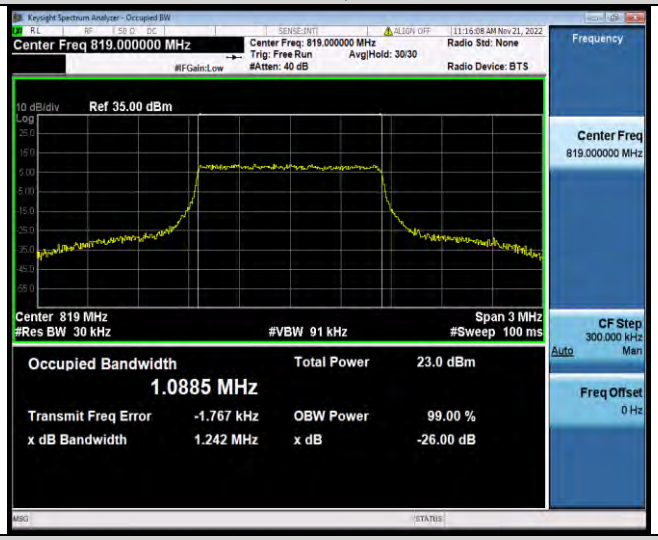
Band26-1.4MHz-QPSK-26740-6RB#0

Band26-1.4MHz-QPSK-26783-6RB#0



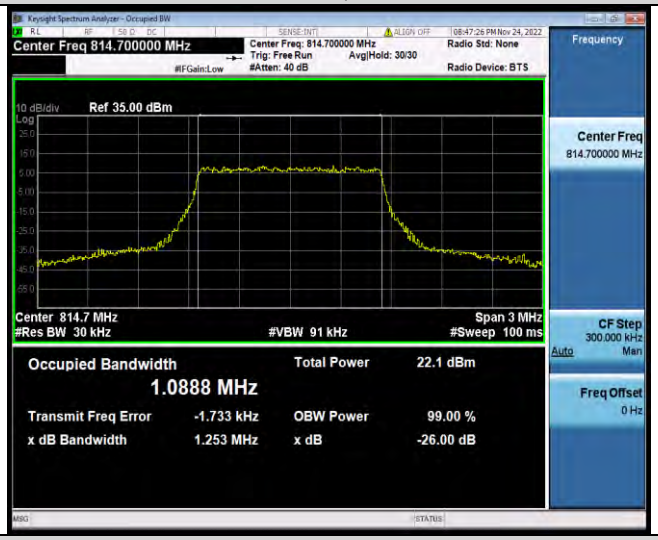
Band26-1.4MHz-16QAM-26697-6RB#0

Band26-1.4MHz-16QAM-26740-6RB#0

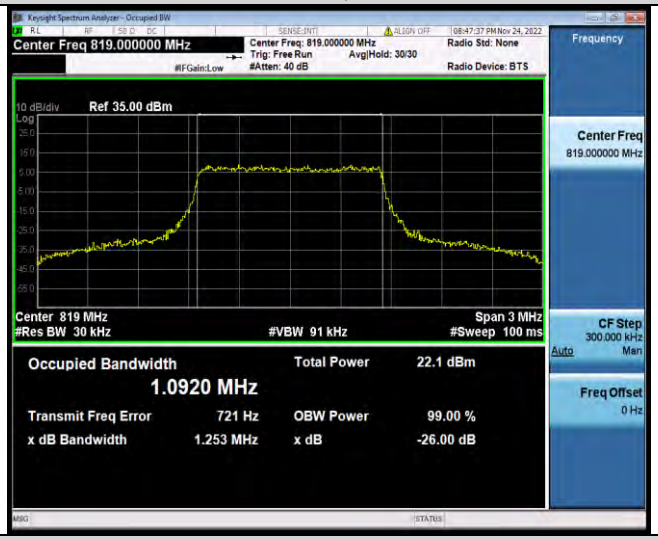


Band26-1.4MHz-16QAM-26783-6RB#0

Band26-1.4MHz-64QAM-26697-6RB#0



Band26-1.4MHz-64QAM-26740-6RB#0



Band26-1.4MHz-64QAM-26783-6RB#0

Band26-3MHz-QPSK-26705-15RB#0

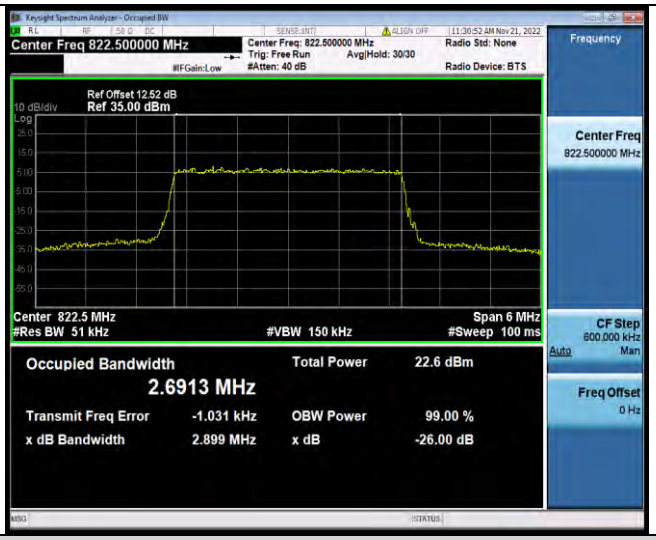
Band26-3MHz-QPSK-26740-15RB#0

Band26-3MHz-QPSK-26775-15RB#0

Band26-3MHz-16QAM-26705-15RB#0

Band26-3MHz-16QAM-26740-15RB#0

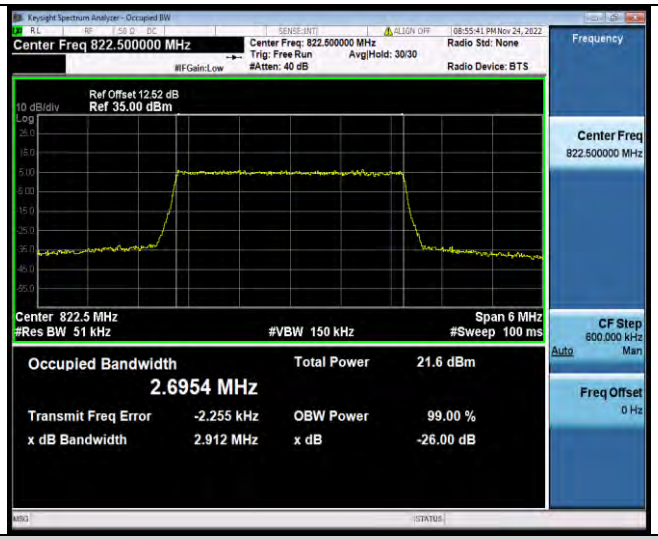
Band26-3MHz-16QAM-26775-15RB#0



Band26-3MHz-64QAM-26705-15RB#0

Band26-3MHz-64QAM-26740-15RB#0

Band26-3MHz-64QAM-26775-15RB#0



Band26-5MHz-QPSK-26715-25RB#0

Band26-5MHz-QPSK-26740-25RB#0

Band26-5MHz-QPSK-26765-25RB#0

Band26-5MHz-16QAM-26715-25RB#0

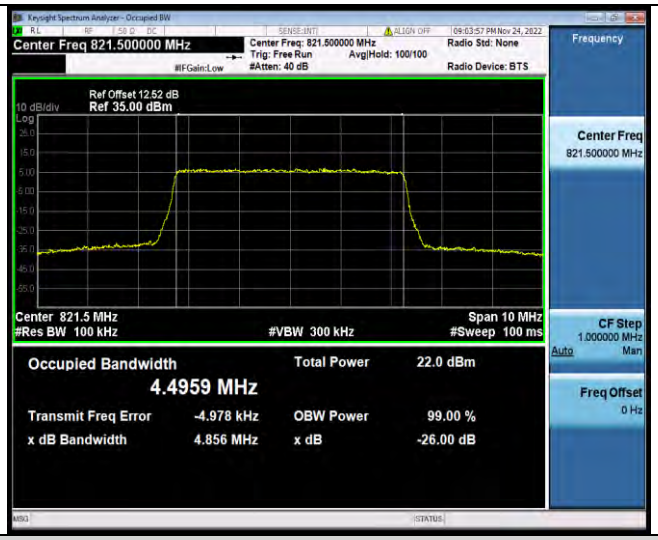
Band26-5MHz-16QAM-26740-25RB#0

Band26-5MHz-16QAM-26765-25RB#0

Band26-5MHz-64QAM-26715-25RB#0

Band26-5MHz-64QAM-26740-25RB#0

Band26-5MHz-64QAM-26765-25RB#0



Band26-10MHz-QPSK-26740-50RB#0

Band26-10MHz-16QAM-26740-50RB#0

Band26-10MHz-64QAM-26740-50RB#0

Keysight Spectrum Analyzer - Occupied BW
Center Freq 819.000000 MHz
Center Freq: 819.000000 MHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 35.00 dBm
Center Freq
819.000000 MHz
Center 819 MHz
#Res BW 200 kHz
#VBW 620 kHz
Span 20 MHz
#Sweep 100 ms
CF Step
2.000000 MHz
Auto
Man
Occupied Bandwidth
8.9486 MHz
Total Power
20.8 dBm
Transmit Freq Error
-6.340 kHz
OBW Power
99.00 %
x dB Bandwidth
9.522 MHz
x dB
-26.00 dB
Freq Offset
0 Hz

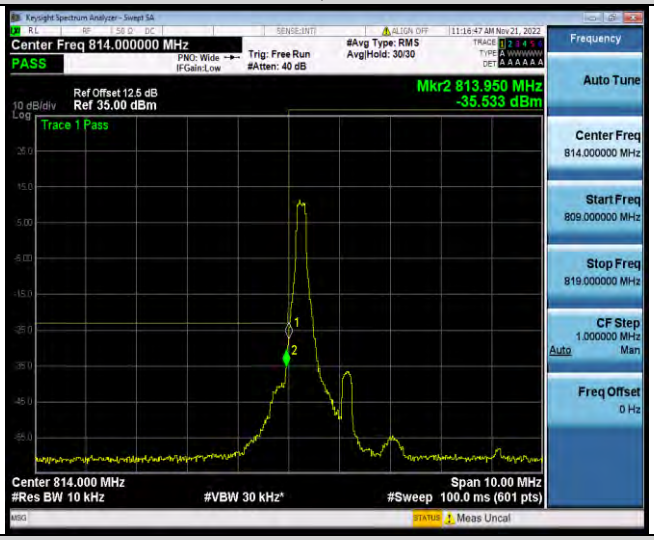
BAND EDGE

Test Result

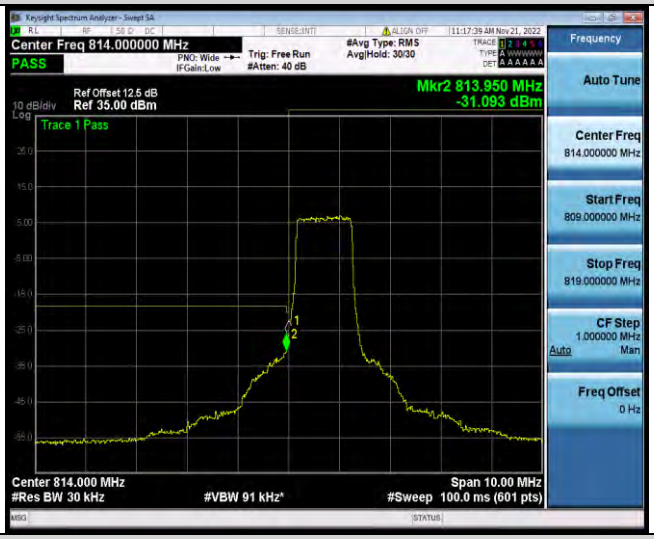
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	-27.73,-35.53	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	-27.23,-31.09	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	-30.04,-38.18	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	-26.86,-30.13	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	-29.50,-38.39	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	-28.81,-32.31	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	-30.52,-38.35	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	-29.37,-31.77	PASS
Band26	1.4MHz	64QAM	26697	1RB#0	-29.99,-39.28	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	-30.84,-35.03	PASS
Band26	1.4MHz	64QAM	26783	1RB#5	-30.85,-40.12	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	-31.47,-34.87	PASS
Band26	3MHz	QPSK	26705	1RB#0	-26.26,-35.64	PASS
Band26	3MHz	QPSK	26705	15RB#0	-25.37,-30.13	PASS
Band26	3MHz	QPSK	26775	1RB#14	-27.61,-37.03	PASS
Band26	3MHz	QPSK	26775	15RB#0	-26.27,-28.94	PASS
Band26	3MHz	16QAM	26705	1RB#0	-26.24,-36.58	PASS
Band26	3MHz	16QAM	26705	15RB#0	-28.53,-31.95	PASS
Band26	3MHz	16QAM	26775	1RB#14	-29.21,-36.80	PASS
Band26	3MHz	16QAM	26775	15RB#0	-27.61,-31.14	PASS
Band26	3MHz	64QAM	26705	1RB#0	-30.48,-38.76	PASS
Band26	3MHz	64QAM	26705	15RB#0	-27.93,-34.19	PASS
Band26	3MHz	64QAM	26775	1RB#14	-30.96,-40.02	PASS
Band26	3MHz	64QAM	26775	15RB#0	-29.36,-35.05	PASS
Band26	5MHz	QPSK	26715	1RB#0	-30.32,-34.94	PASS
Band26	5MHz	QPSK	26715	25RB#0	-25.62,-28.54	PASS
Band26	5MHz	QPSK	26765	1RB#24	-29.95,-36.10	PASS
Band26	5MHz	QPSK	26765	25RB#0	-25.45,-27.40	PASS
Band26	5MHz	16QAM	26715	1RB#0	-30.28,-37.12	PASS
Band26	5MHz	16QAM	26715	25RB#0	-27.31,-29.72	PASS
Band26	5MHz	16QAM	26765	1RB#24	-31.55,-36.73	PASS
Band26	5MHz	16QAM	26765	25RB#0	-26.92,-29.33	PASS
Band26	5MHz	64QAM	26715	1RB#0	-32.16,-37.33	PASS
Band26	5MHz	64QAM	26715	25RB#0	-29.31,-32.16	PASS
Band26	5MHz	64QAM	26765	1RB#24	-33.31,-38.36	PASS
Band26	5MHz	64QAM	26765	25RB#0	-28.76,-32.05	PASS
Band26	10MHz	QPSK	26740	1RB#0	-29.77,-25.31,-46.83,-46.96	PASS
Band26	10MHz	QPSK	26740	1RB#49	-46.40,-46.08,-26.98,-28.97	PASS
Band26	10MHz	QPSK	26740	50RB#0	-28.01,-26.82,-27.72,-27.91	PASS
Band26	10MHz	16QAM	26740	1RB#0	-30.03,-25.86,-46.93,-47.10	PASS
Band26	10MHz	16QAM	26740	1RB#49	-46.64,-46.13,-26.71,-29.48	PASS
Band26	10MHz	16QAM	26740	50RB#0	-30.32,-29.12,-29.82,-30.21	PASS
Band26	10MHz	64QAM	26740	1RB#0	-31.32,-27.12,-47.56,-47.40	PASS
Band26	10MHz	64QAM	26740	1RB#49	-47.38,-47.46,-29.03,-30.79	PASS
Band26	10MHz	64QAM	26740	50RB#0	-32.83,-31.79,-33.05,-33.23	PASS

Test Graphs

Band26-1.4MHz-QPSK-26697-1RB#0



Band26-1.4MHz-QPSK-26697-6RB#0



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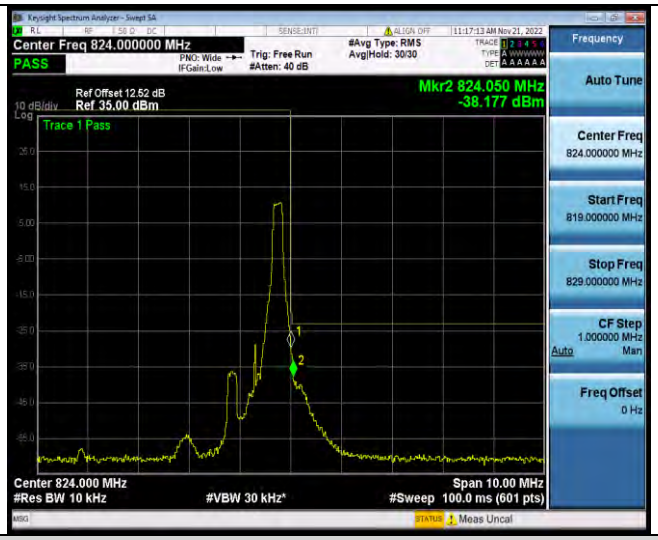
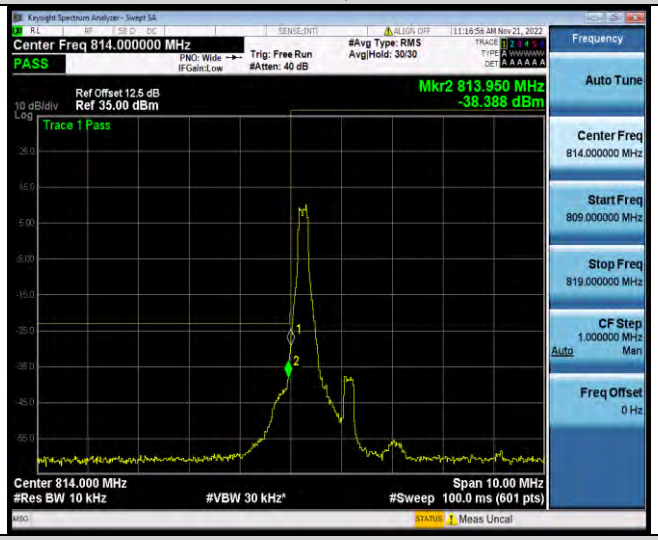


Band26-1.4MHz-QPSK-26783-6RB#0

Band26-1.4MHz-16QAM-26697-1RB#0



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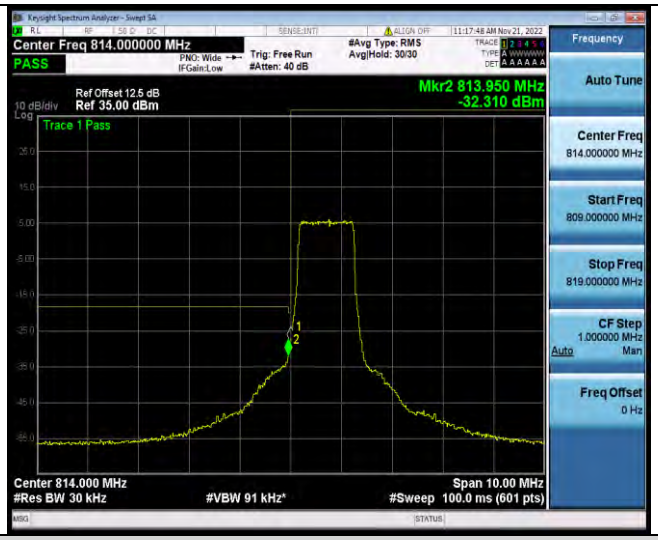

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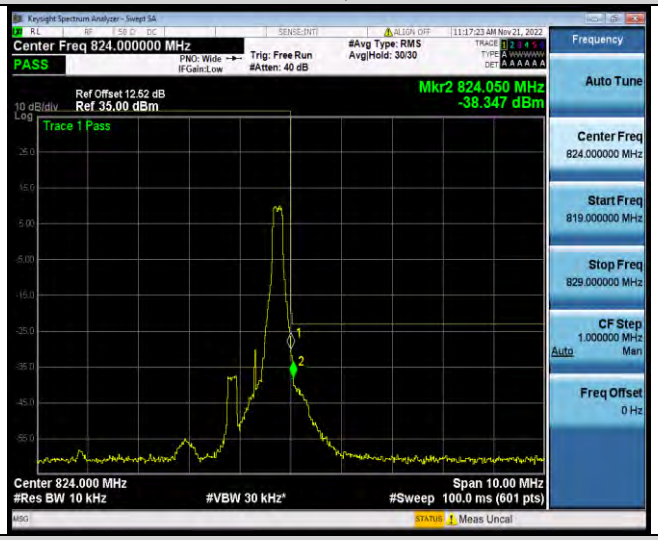

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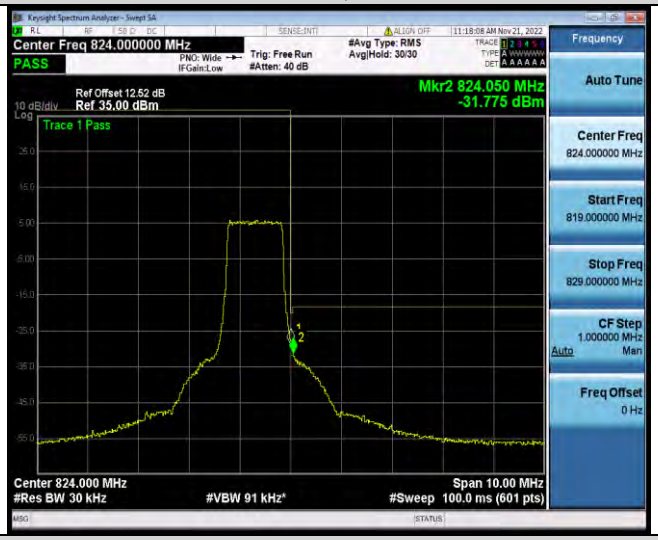

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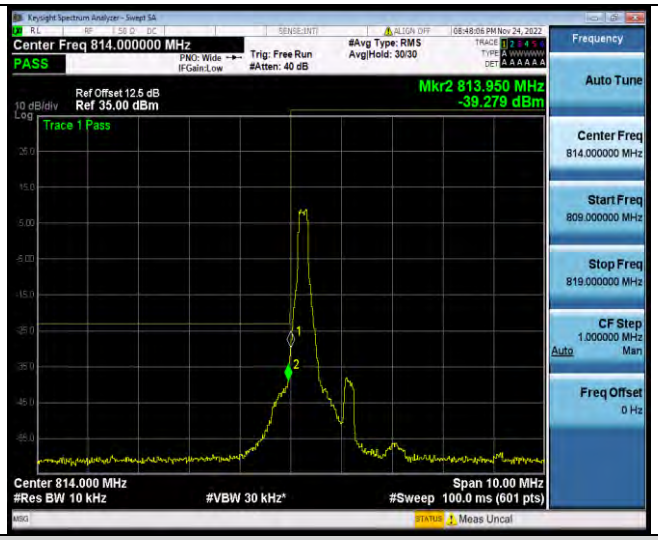

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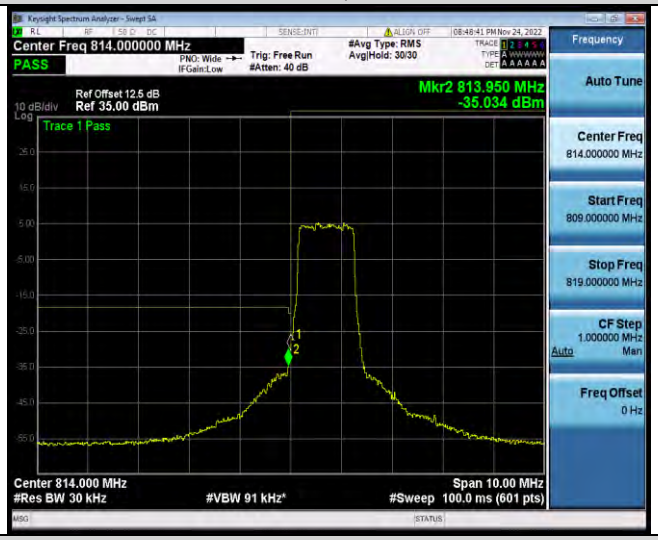
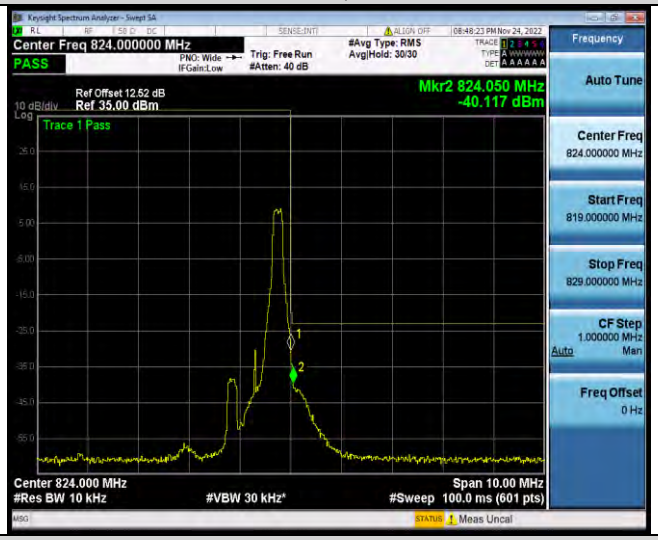


Band26-1.4MHz-64QAM-26783-1RB#5



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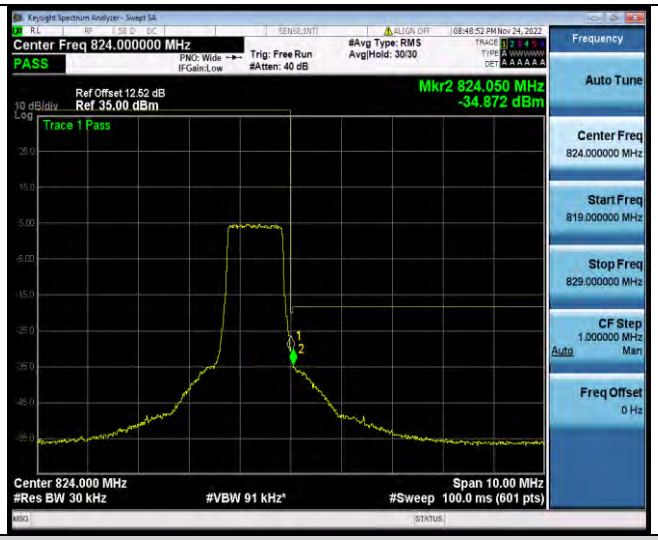
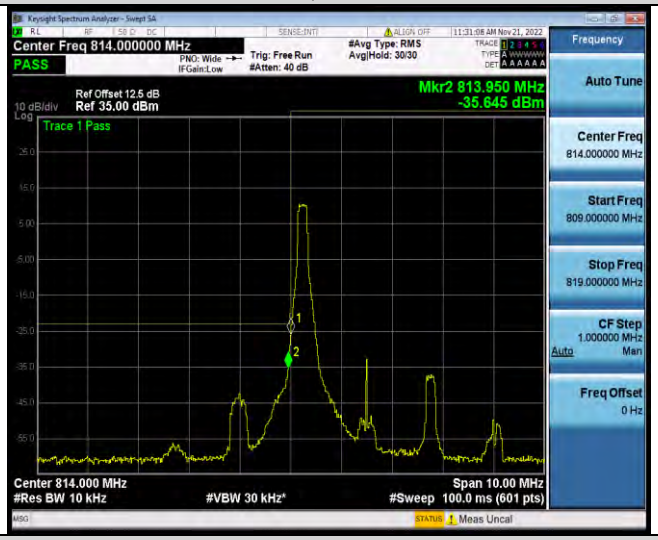


Band26-3MHz-QPSK-26705-1RB#0



Band26-3MHz-QPSK-26705-15RB#0

Band26-3MHz-QPSK-26775-1RB#14