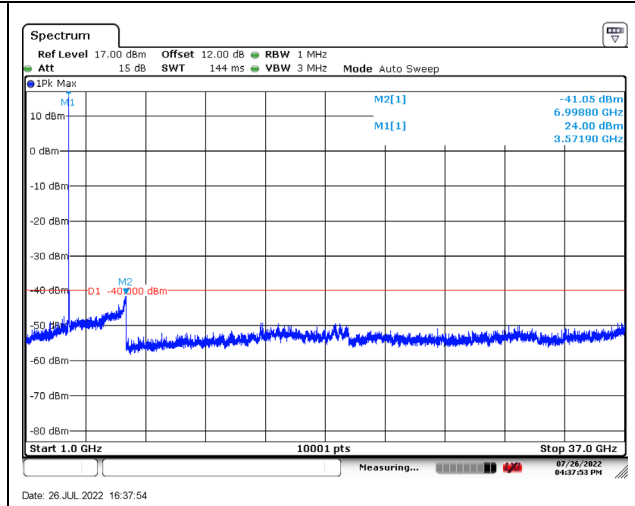
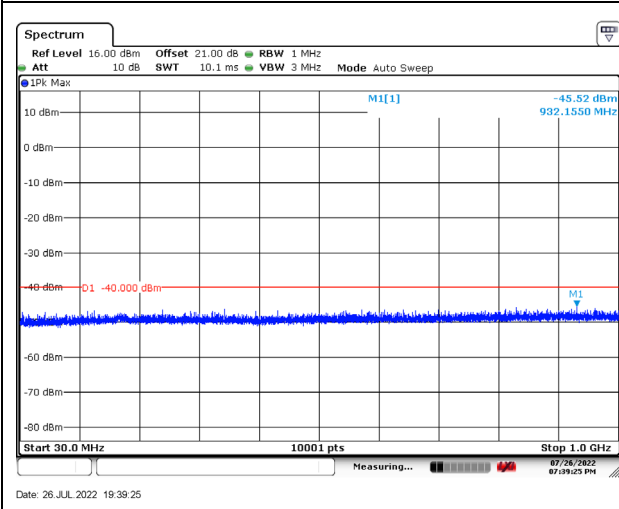


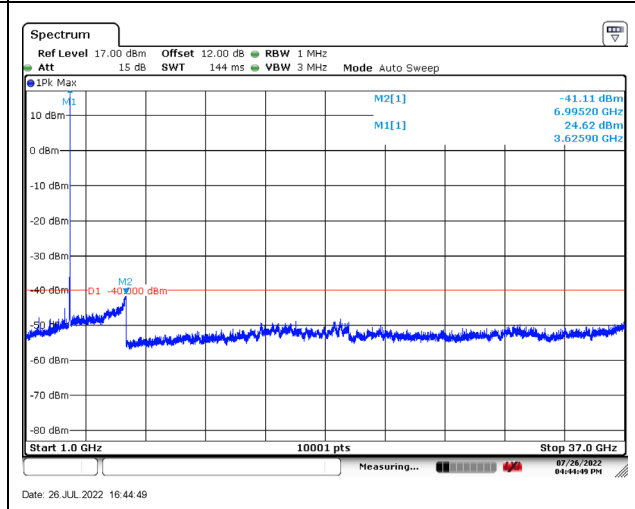
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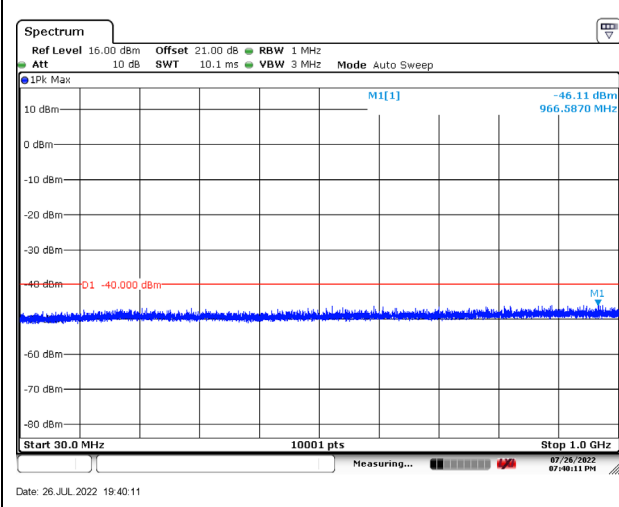
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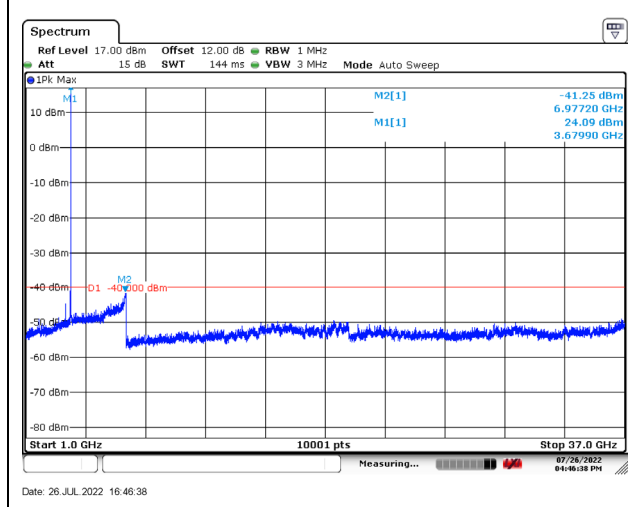
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40MHz\_PI/2 BPSK\_CH641666\_1RB53

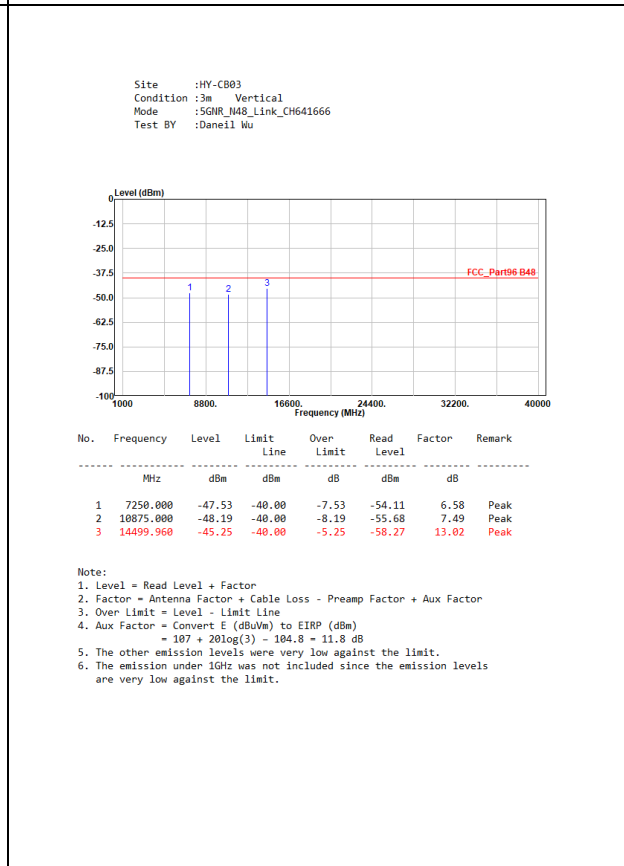
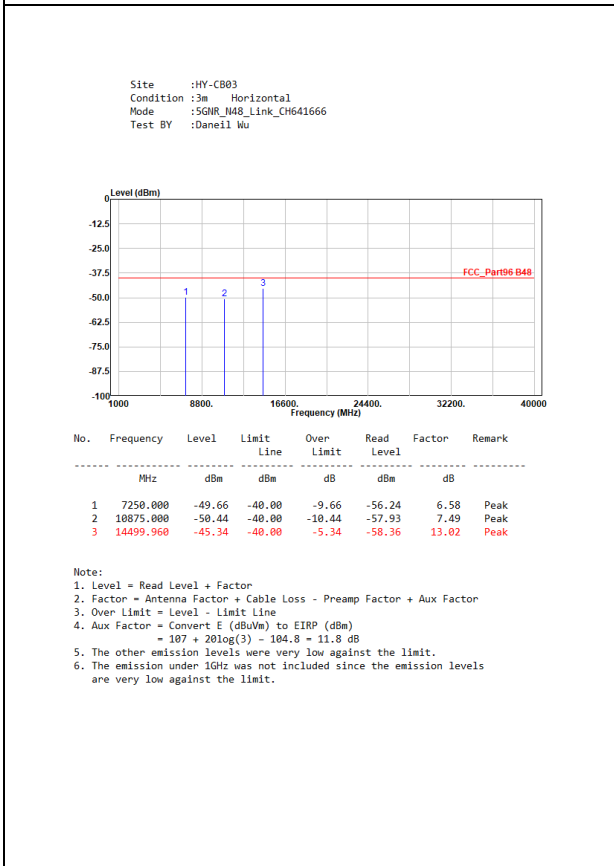
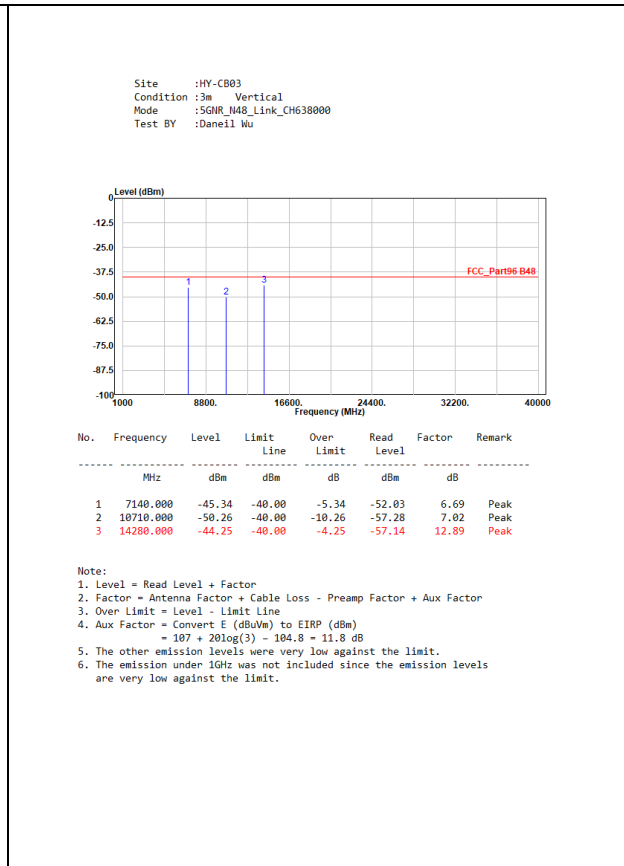
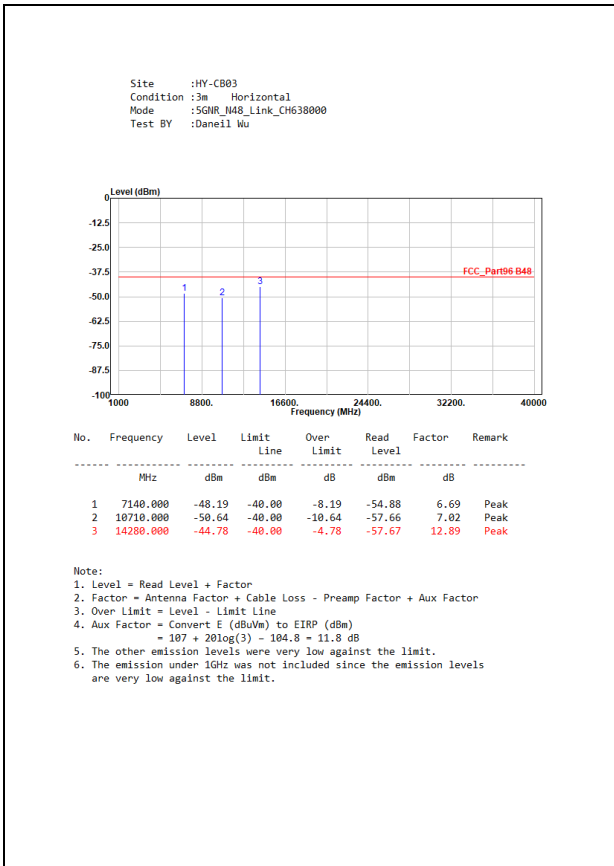


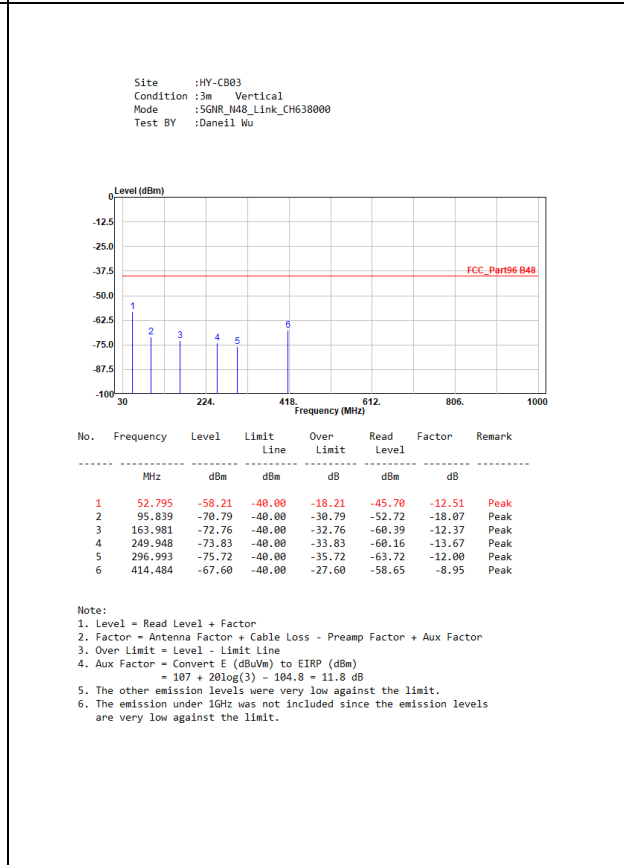
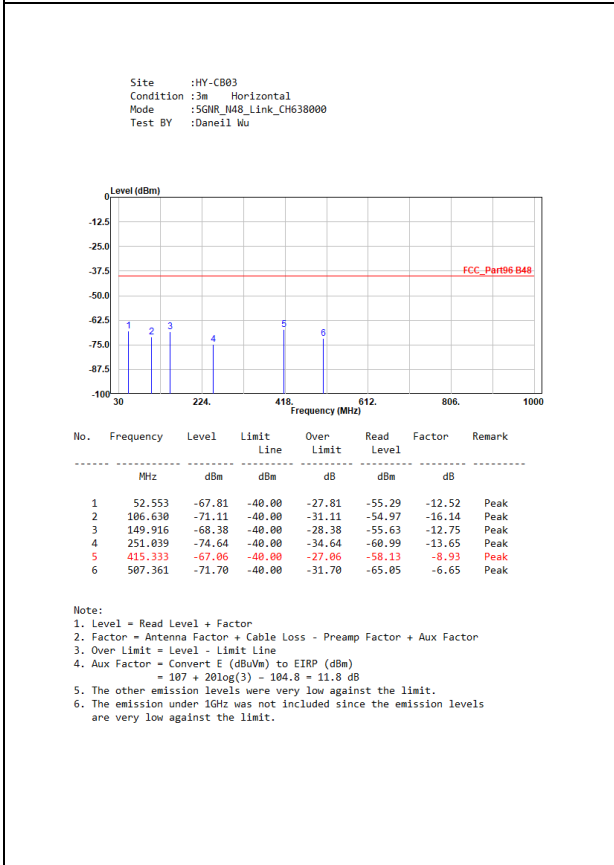
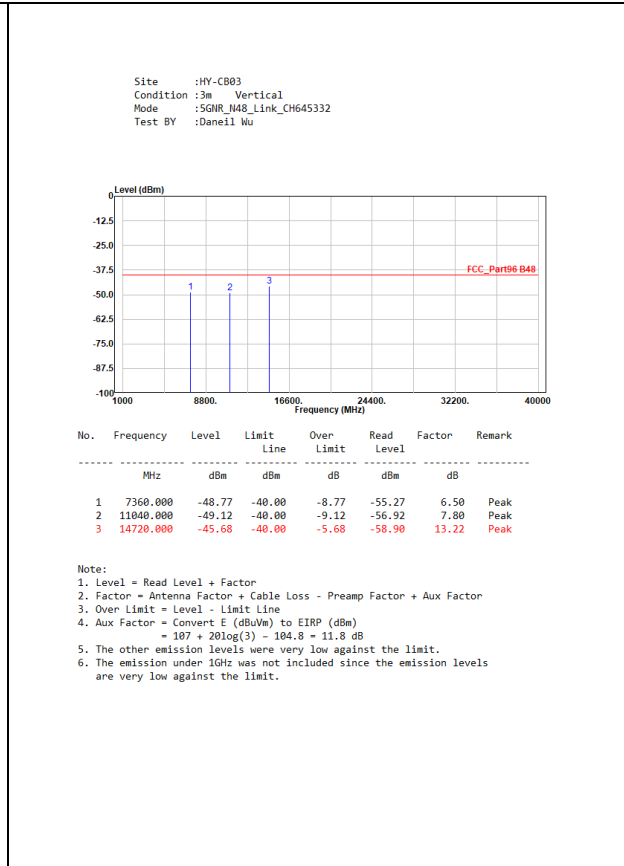
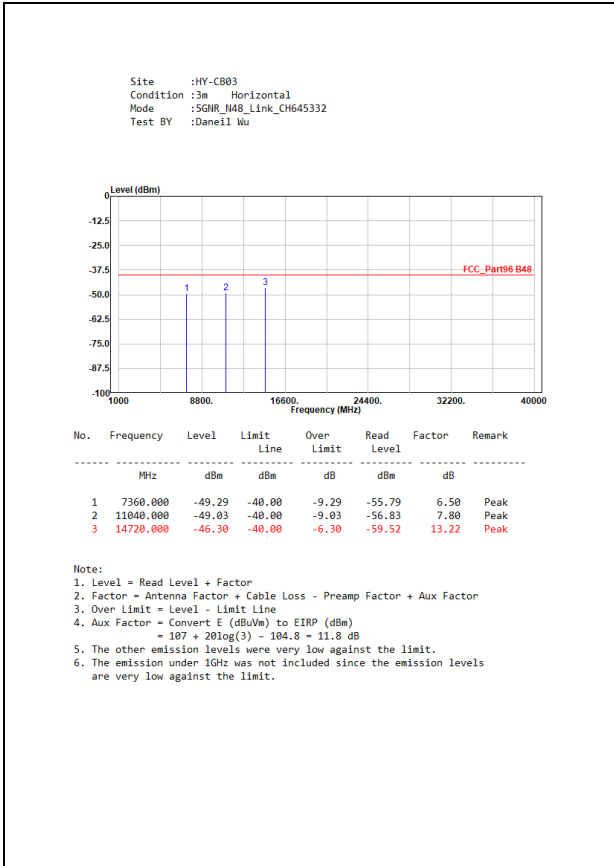
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40MHz\_PI/2 BPSK\_CH645332\_1RB53

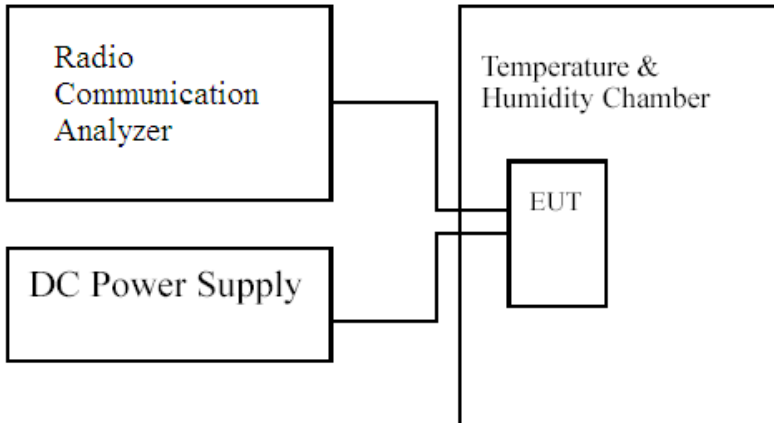
### 6.6. Test Result of Field Strength of Spurious Radiation





## 7. Frequency Stability

### 7.1. Test Setup



### 7.2. Test Limit

Limit:  $\leq \pm 2.5$  ppm

### 7.3. Test Procedure

The frequency stability of transmitter is measured by:

- (a) Temperature: The temperature is varied from  $-30^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  in  $10^{\circ}\text{C}$  increment using a standard temperature & Humidity chamber.
- (b) Primary Supply Voltage: The primary supply voltage is varied 85% to 115% of the nominal value for non hand-carried equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating endpoint which shall be specified by the manufacturer.

The EUT was connected via the base station simulator. Universal Radio Communication Tester, was used to measure The Frequency Error. The maximum result of measurements was recorded.

### 7.4. Test Specification

According to Part 2.1055

## 7.5. Test Result of Frequency Stability

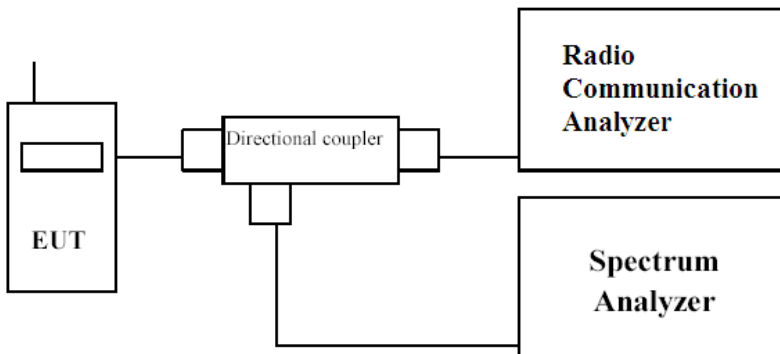
### Mode 1: 5G NR n48

Temperature	Channel	Deviation (kHz)			
Interval(°C)		10M	20M	30M	40M
-30	low	-0.0144	-0.0108	-0.0145	-0.0229
-30	Mid	0.0165	-0.0152	-0.0226	-0.0104
-30	high	-0.0163	-0.0160	-0.0121	0.0176
-20	low	-0.0191	-0.0136	-0.0180	-0.0111
-20	Mid	0.0112	-0.0151	-0.0179	-0.0186
-20	high	-0.0158	-0.0159	-0.0142	0.0149
-10	low	-0.0147	-0.0101	-0.0150	-0.0208
-10	Mid	-0.0222	-0.0126	-0.0225	-0.0129
-10	high	-0.0192	-0.0130	-0.0181	0.0170
0	low	-0.0164	0.0200	-0.0115	-0.0125
0	Mid	0.0105	-0.0148	-0.0114	-0.0174
0	high	-0.0138	-0.0116	-0.0209	0.0197
10	low	-0.0137	-0.0105	-0.0123	-0.0104
10	Mid	0.0127	-0.0214	-0.0203	-0.0151
10	high	-0.0147	-0.0141	-0.0150	0.0156
20	low	-0.0208	0.0130	-0.0117	-0.0097
20	Mid	-0.0094	-0.0256	-0.0159	-0.0119
20	high	-0.0129	-0.0131	-0.0146	0.0147
30	low	-0.0173	0.0100	-0.0128	-0.0143
30	Mid	0.0116	-0.0158	-0.0110	-0.0111
30	high	-0.0179	-0.0201	-0.0122	0.0113
40	low	-0.0177	-0.0121	-0.0138	-0.0120
40	Mid	-0.0108	-0.0122	-0.0116	-0.0108
40	high	-0.0160	-0.0147	-0.0136	0.0173
50	low	-0.0229	-0.0143	-0.0215	-0.0105
50	Mid	-0.0113	-0.0198	-0.0189	-0.0104
50	high	-0.0169	-0.0149	-0.0166	0.0131

<b>Voltage Variations</b>					
AC Voltage	Channel	Deviation (kHz)			
(V)		10M	20M	30M	40M
138	low	-0.0171	-0.0138	-0.0163	-0.0083
138	Mid	-0.0165	-0.0145	-0.0099	-0.0144
138	high	-0.0279	0.0119	-0.0200	0.0126
120	low	-0.0208	0.0130	-0.0117	-0.0097
120	Mid	-0.0094	-0.0256	-0.0159	-0.0119
120	high	-0.0129	-0.0131	-0.0146	0.0147
102	low	-0.0170	-0.0135	0.0114	-0.0139
102	Mid	-0.0146	-0.0126	-0.0140	-0.0177
102	high	-0.0234	-0.0144	-0.0154	0.0188

## 8. Peak to Average Ratio

### 8.1. Test Setup



### 8.2. Test Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure.

### 8.3. Test Procedure

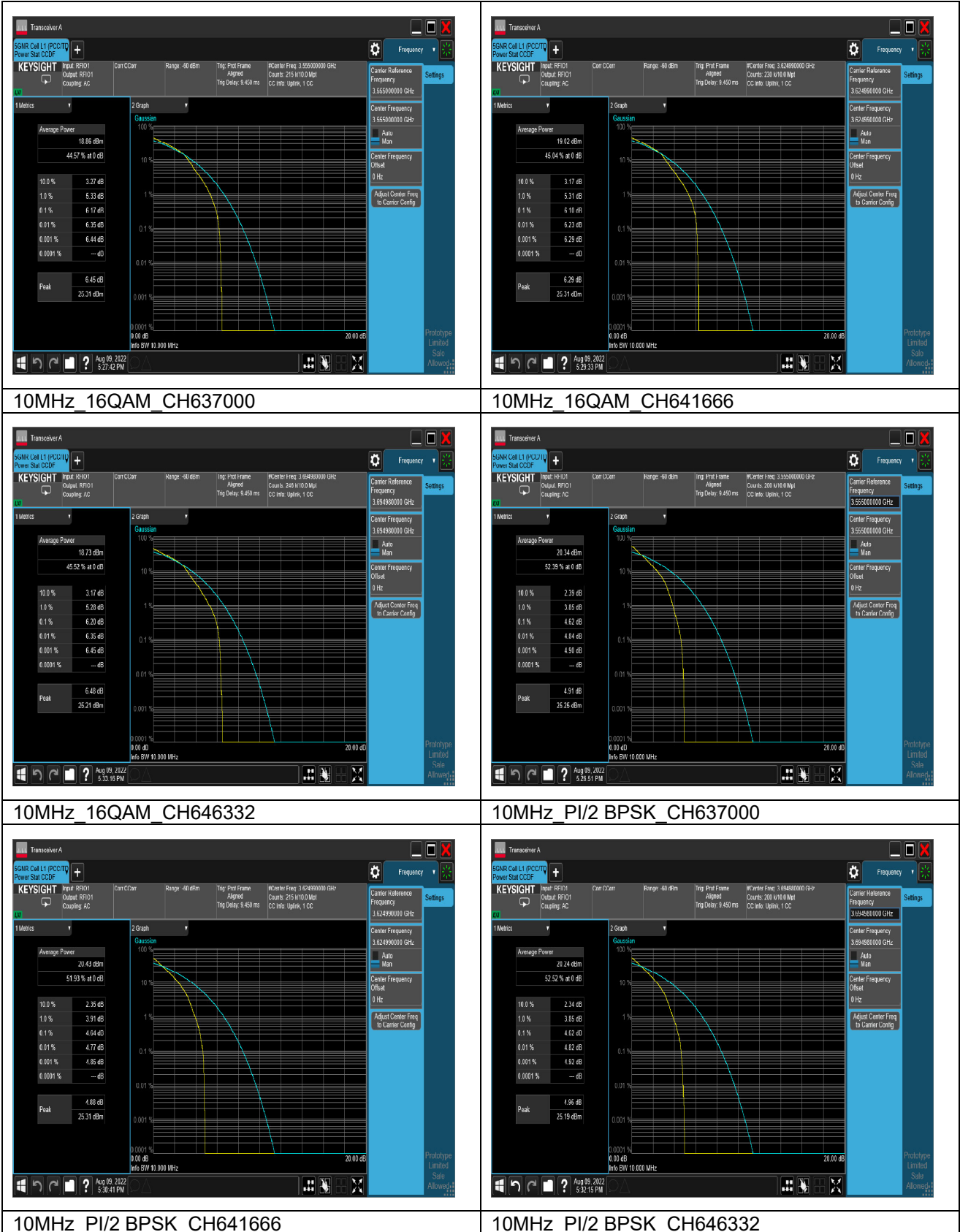
- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
  - 1) for continuous transmissions, set to 1 ms,
  - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

### 8.4. Test Specification

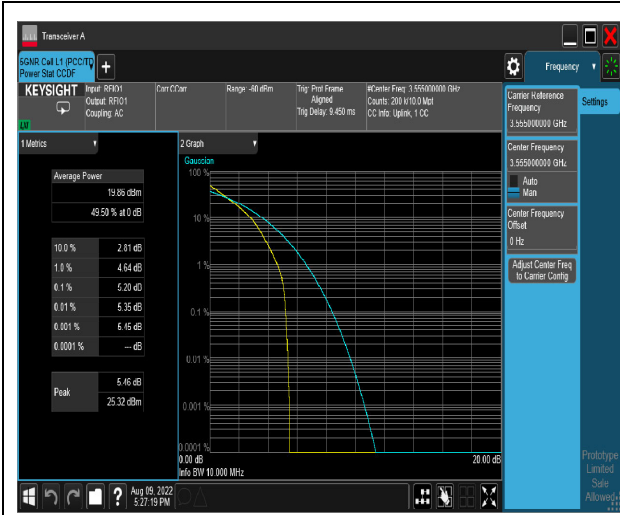
According to Part 96.41

### 8.5. Test Result of Peak to Average Ratio

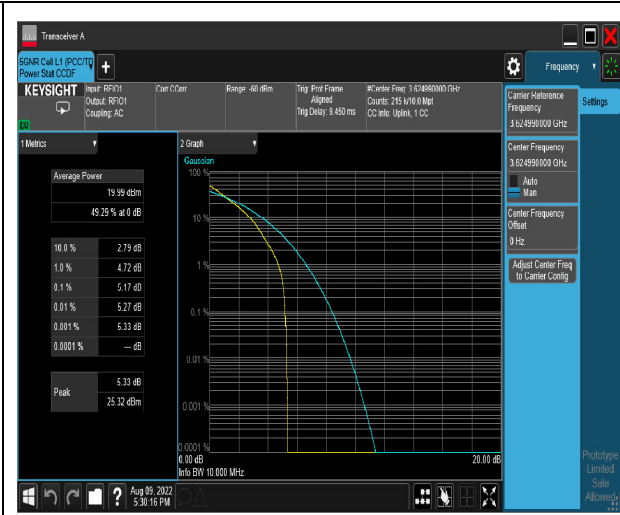
#### Mode 1: 5G NR n48



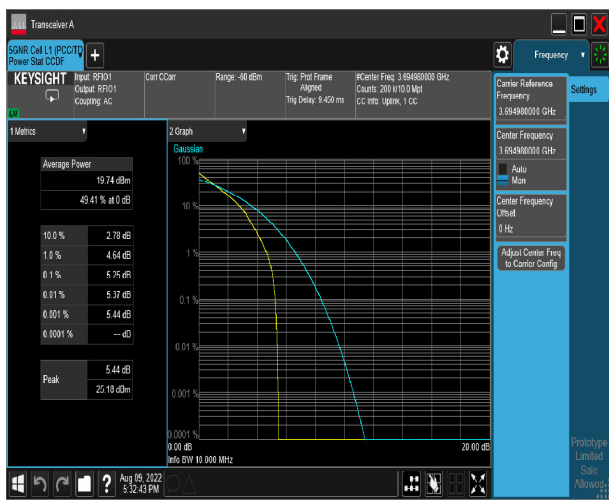




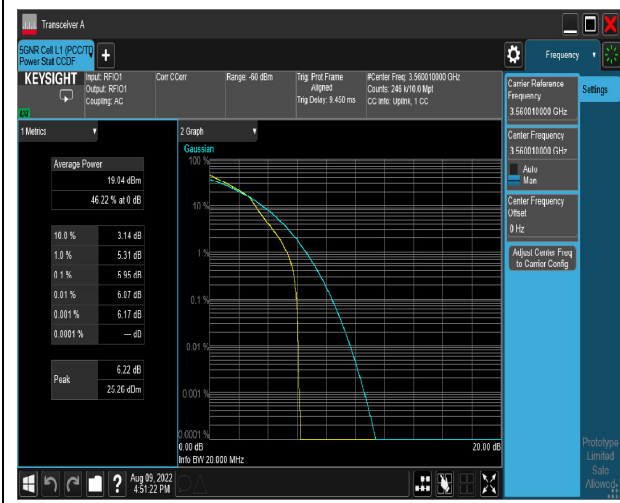
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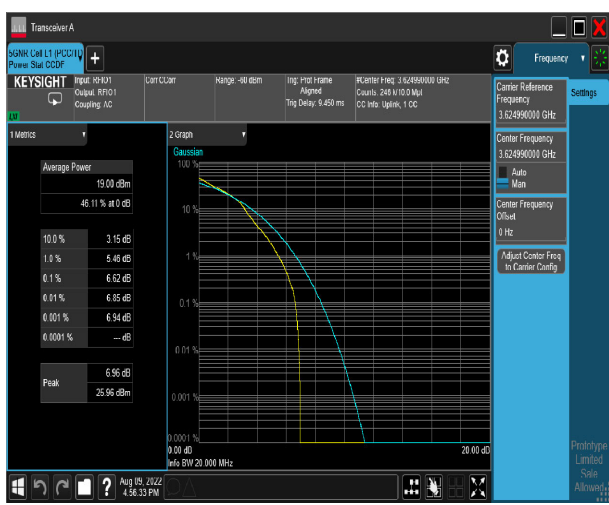
10MHz\_QPSK\_CH641666



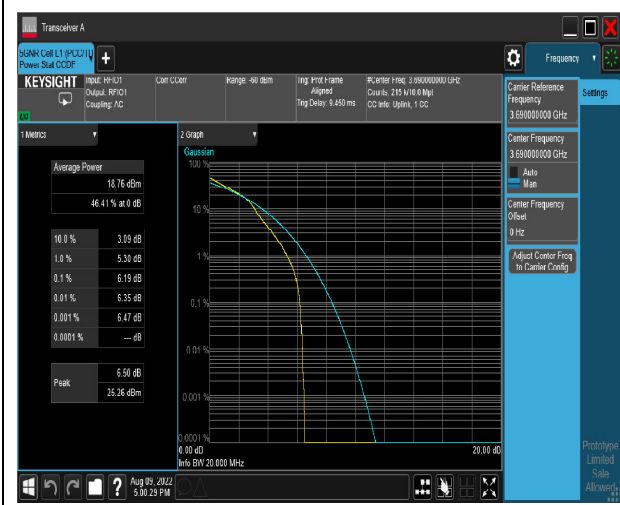
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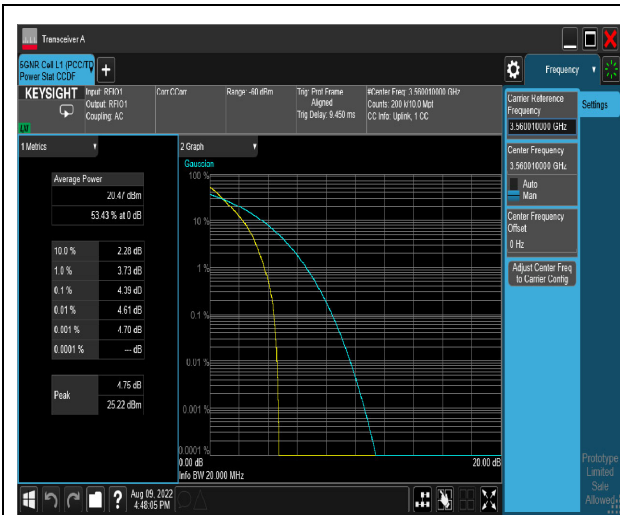
20MHz\_16QAM\_CH637334



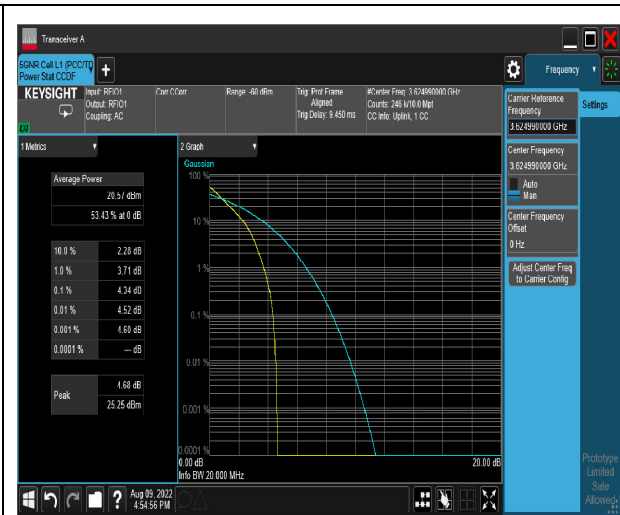
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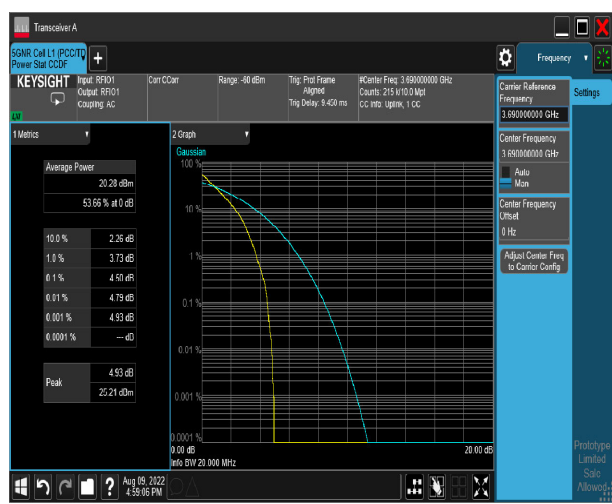
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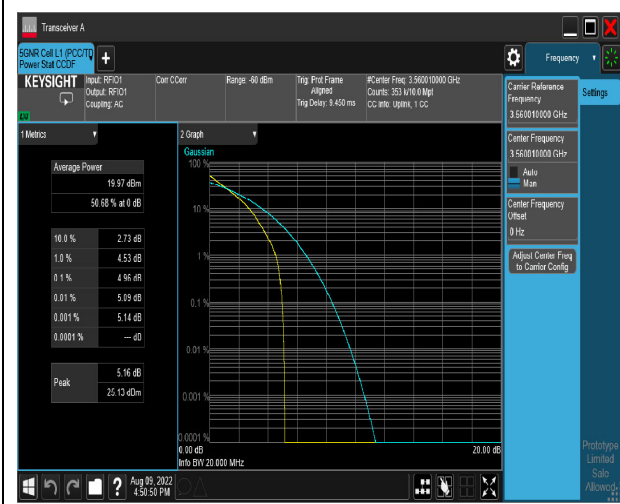
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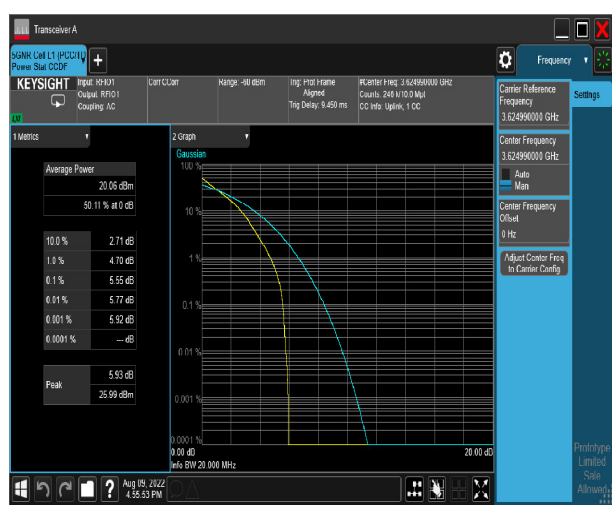
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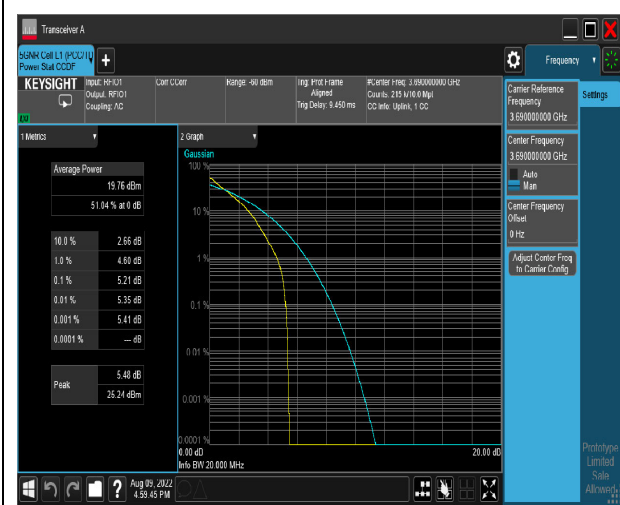
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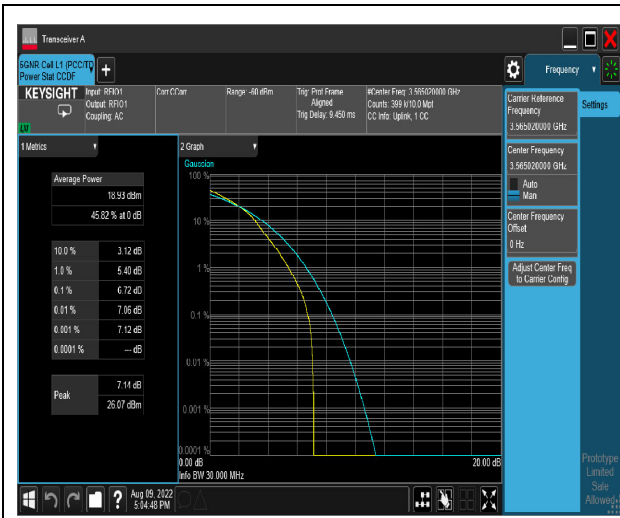
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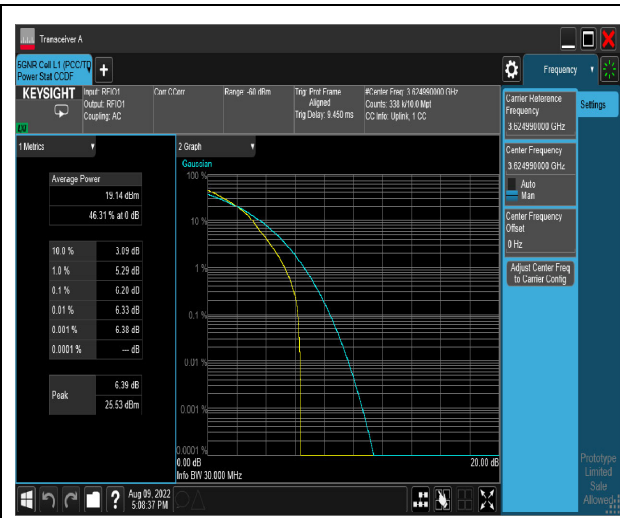
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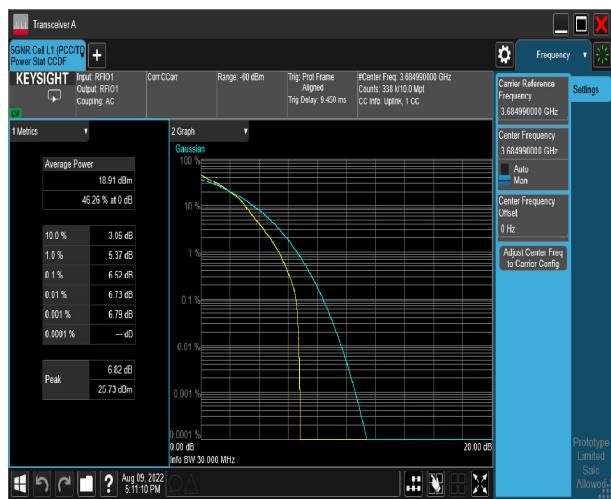
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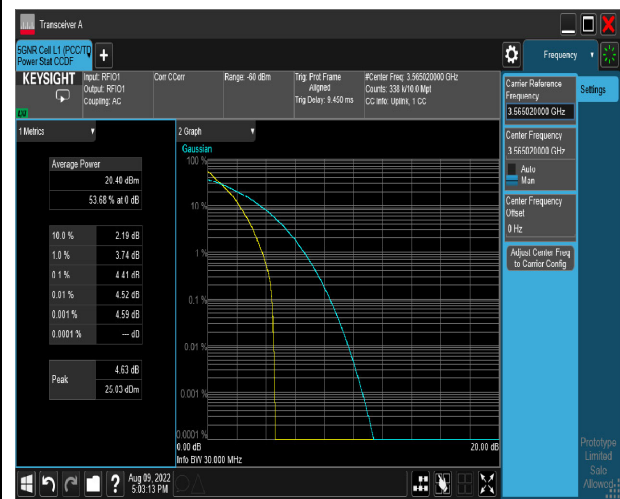
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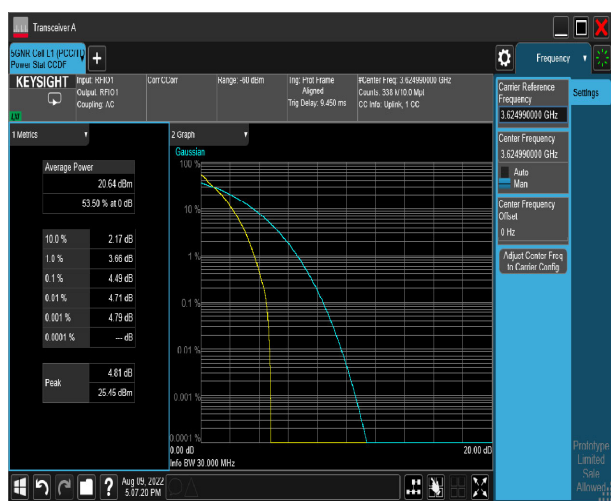
30MHz\_16QAM\_CH641666



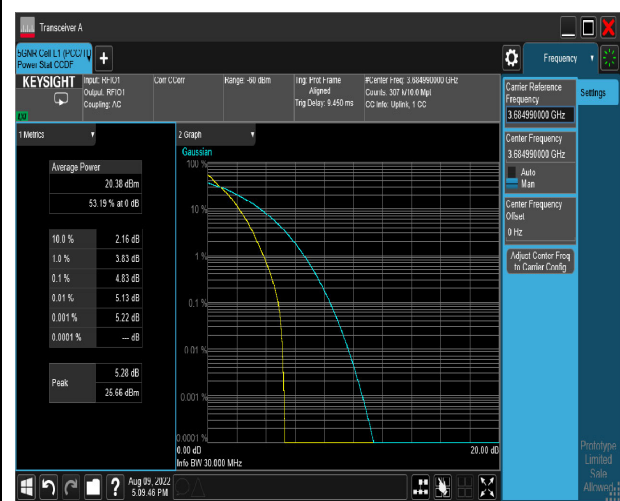
30MHz\_16QAM\_CH645666



30MHz\_PI/2 BPSK\_CH637668



30MHz\_PI/2 BPSK\_CH641666



30MHz\_PI/2 BPSK\_CH645666