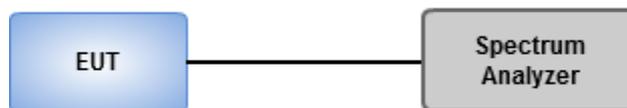


## 3.5 26dBc Bandwidth

### 3.5.1 Test Procedures

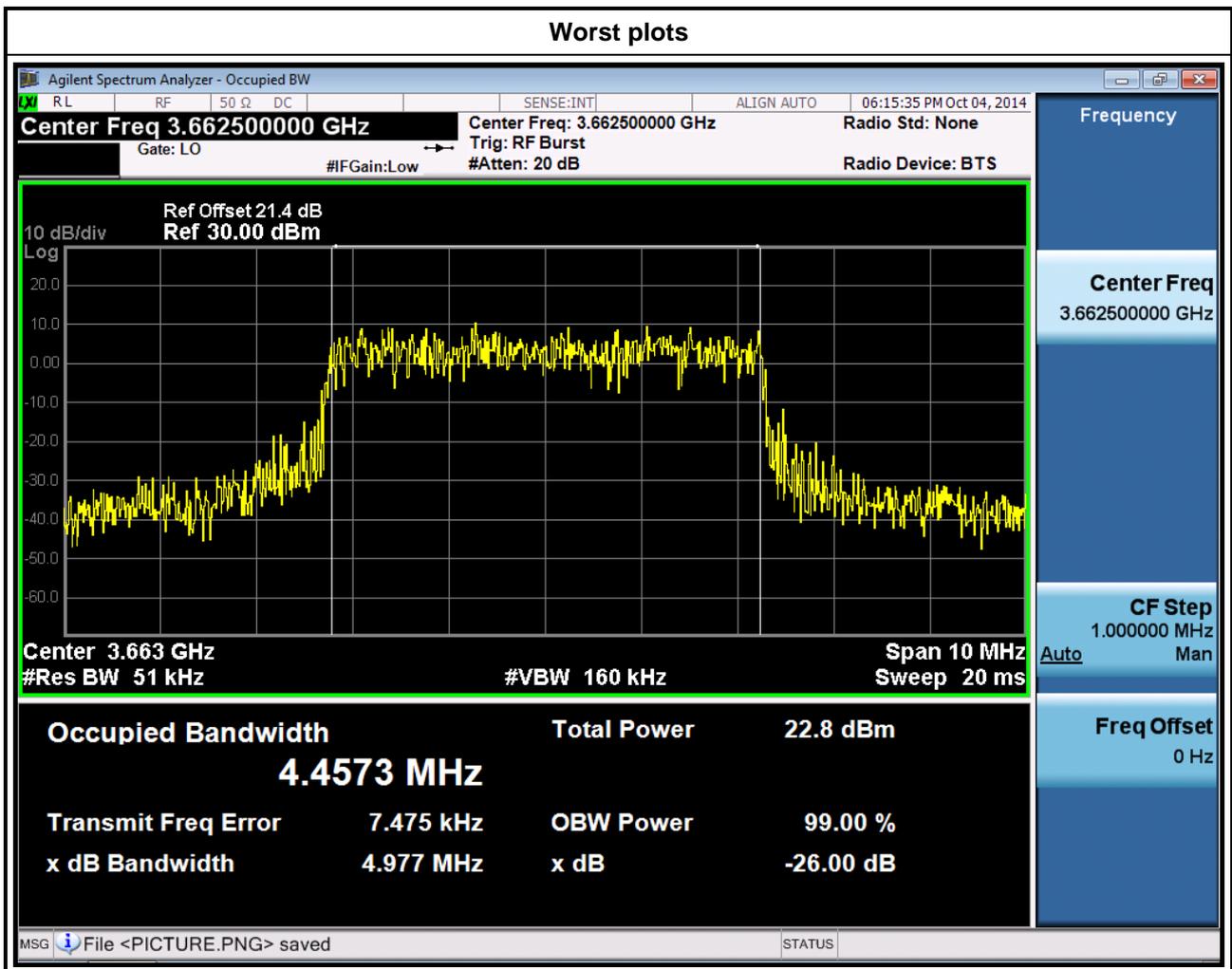
1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth=300kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Using 26dBc and occupied bandwidth measurement function of spectrum analyzer to measure 26dBc and occupied bandwidth.

### 3.5.2 Test Setup

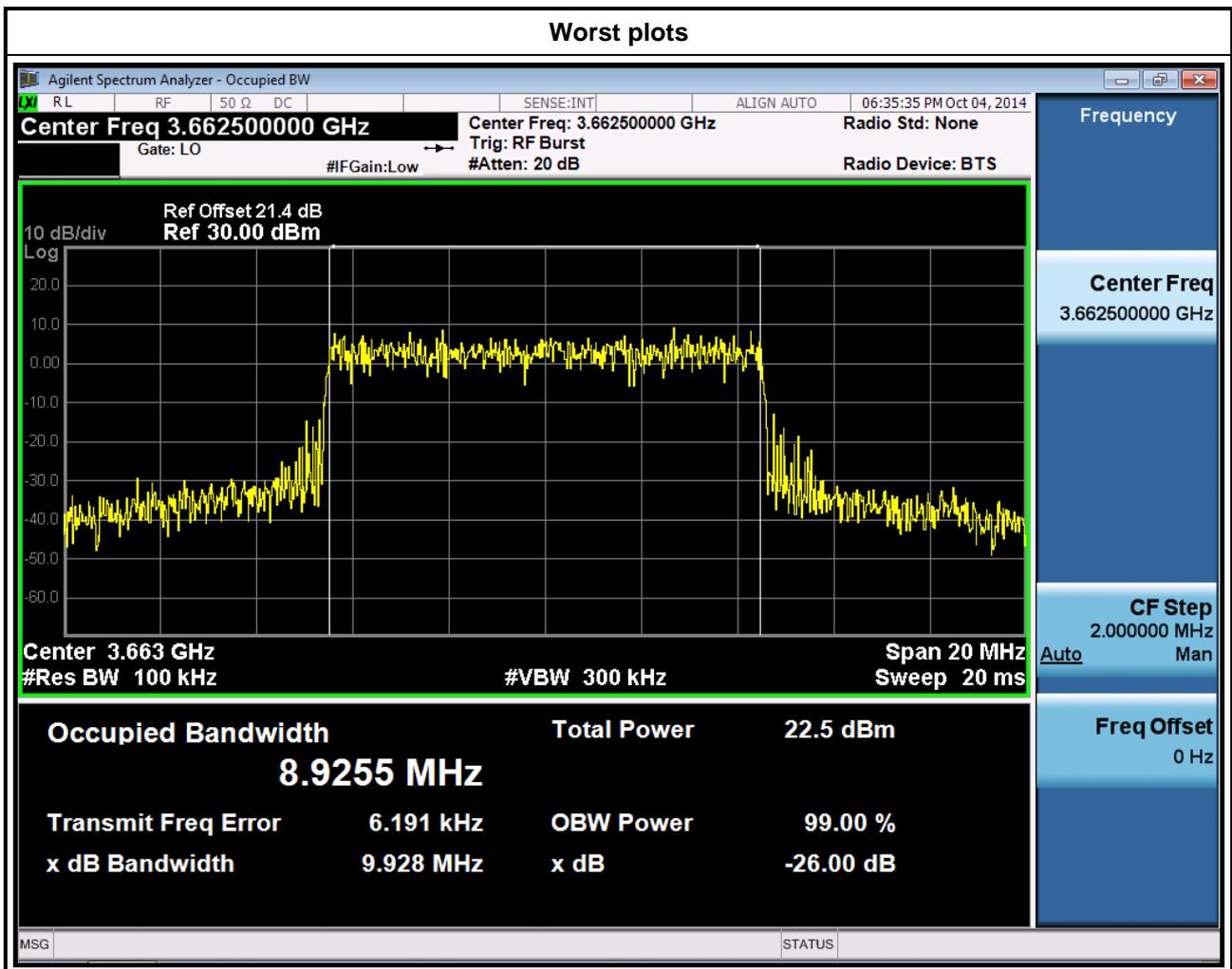


### 3.5.3 Test Result of 26dBc Bandwidth

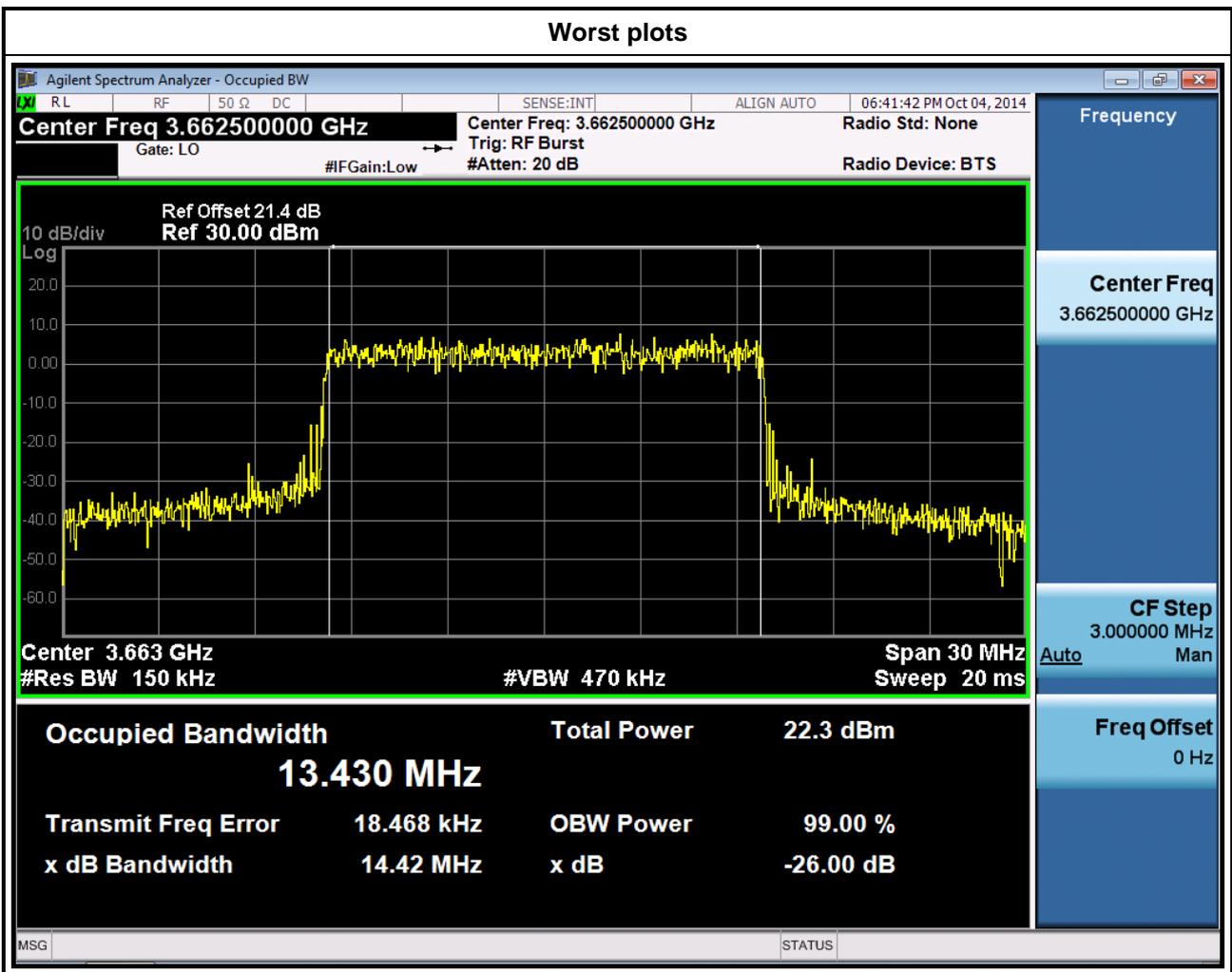
Mode	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	Occupied Bandwidth (MHz)
LTE-BW 5MHz	QPSK	44115	3652.5	4.903	4.4397
LTE-BW 5MHz	QPSK	44215	3662.5	4.977	4.4573
LTE-BW 5MHz	QPSK	44315	3672.5	4.835	4.4575
LTE-BW 5MHz	16QAM	44115	3652.5	4.709	4.4716
LTE-BW 5MHz	16QAM	44215	3662.5	4.907	4.4824
LTE-BW 5MHz	16QAM	44315	3672.5	4.907	4.4826



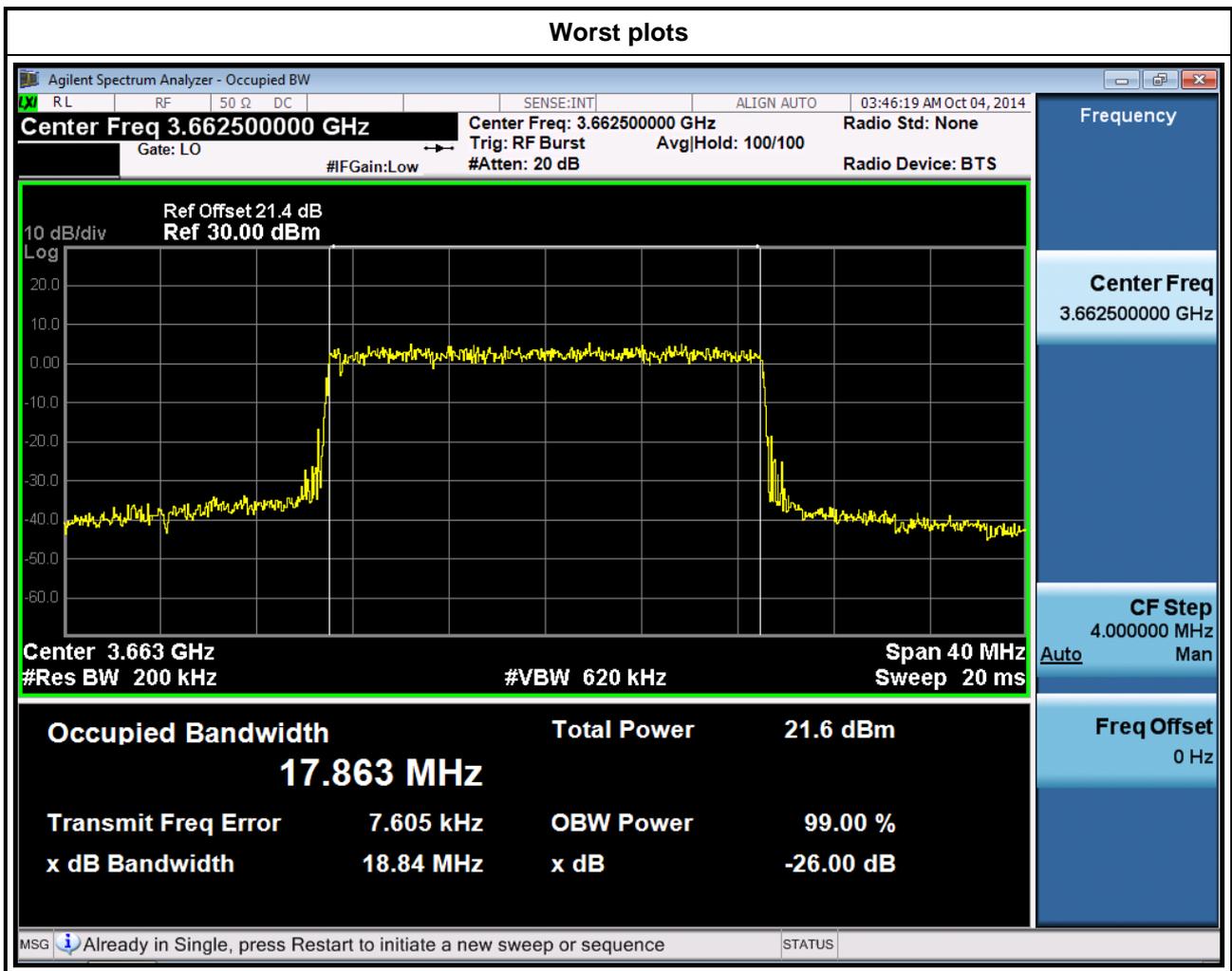
Mode	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	Occupied Bandwidth (MHz)
LTE-BW 10MHz	QPSK	44140	3655.0	9.311	8.9339
LTE-BW 10MHz	QPSK	44215	3662.5	9.514	8.8901
LTE-BW 10MHz	QPSK	44290	3672.5	9.514	8.8872
LTE-BW 10MHz	16QAM	44140	3655.0	9.877	8.9162
LTE-BW 10MHz	16QAM	44215	3662.5	9.928	8.9255
LTE-BW 10MHz	16QAM	44290	3672.5	9.803	8.8996



Mode	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	Occupied Bandwidth (MHz)
LTE-BW 15MHz	QPSK	44165	3657.5	14.09	13.403
LTE-BW 15MHz	QPSK	44215	3662.5	14.38	13.414
LTE-BW 15MHz	QPSK	44265	3667.5	14.38	13.407
LTE-BW 15MHz	16QAM	44165	3657.5	14.00	13.367
LTE-BW 15MHz	16QAM	44215	3662.5	14.42	13.430
LTE-BW 15MHz	16QAM	44265	3667.5	14.19	13.368



Mode	Modulation	Channel	Frequency (MHz)	26dB BW (MHz)	Occupied Bandwidth (MHz)
LTE-BW 20MHz	QPSK	44190	3660.0	18.84	17.815
LTE-BW 20MHz	QPSK	44215	3662.5	18.84	17.815
LTE-BW 20MHz	QPSK	44315	3672.5	18.84	17.811
LTE-BW 20MHz	16QAM	44190	3660.0	18.84	17.861
LTE-BW 20MHz	16QAM	44215	3662.5	18.84	17.863
LTE-BW 20MHz	16QAM	44315	3672.5	18.83	17.877



## 3.6 Frequency Stability

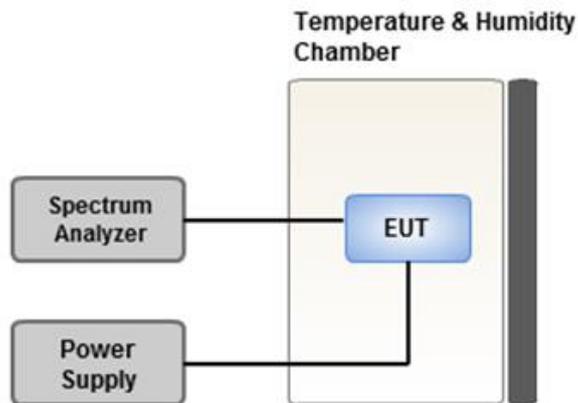
### 3.6.1 Limit of Frequency Stability

The frequency stability shall be less +/- 2.5ppm.

### 3.6.2 Test Procedures

1. EUT was placed at temperature chamber and connected to an external power supply.
2. Temperature and voltage condition shall be tested to confirm frequency stability.
3. Temperature range is from -30~50°C and voltage range is from lowest to highest working voltage.
4. Tem Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

### 3.6.3 Test Setup



### 3.6.4 Test Result of Frequency Stability

Frequency: 3662.5 MHz	Frequency Drift (ppm)	
	Temperature (°C)	Limit (ppm)
T20°CVmax	-0.004	2.5
T20°CVmin	-0.001	2.5
T55°CVnom	-0.003	2.5
T50°CVnom	-0.002	2.5
T40°CVnom	-0.002	2.5
T30°CVnom	-0.001	2.5
T20°CVnom	-0.001	2.5
T10°CVnom	-0.002	2.5
T0°CVnom	-0.002	2.5
T-10°CVnom	-0.003	2.5
T-20°CVnom	-0.004	2.5
T-30°CVnom	-0.004	2.5
Vnom [Vac]: 120	Vmax [Vac]: 138	Vmin [Vac]: 102
Tnom [°C]: 20	Tmax [°C]: 55	Tmin [°C]: -30

## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

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### **Kwei Shan Site II**

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Yuan Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

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