



## Appendix for test report

## 1Appendix\_A: Effective (Isotropic) Radiated Power Output Data

### Part I - Test Results

| Test Band(LTE) | Test Mode   | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-------------|----------------|--------------|---------|----------------|------------|-------------|---------|
| BAND38         | LTE/TM<br>1 | 5              | LCH          | RB1#0   | 22.85          | 22.85      | 33          | PASS    |
|                |             |                |              | RB1#13  | 22.99          | 22.99      | 33          | PASS    |
|                |             |                |              | RB1#24  | 22.57          | 22.57      | 33          | PASS    |
|                |             |                |              | RB12#0  | 22.01          | 22.01      | 33          | PASS    |
|                |             |                |              | RB12#6  | 22.07          | 22.07      | 33          | PASS    |
|                |             |                |              | RB12#13 | 21.87          | 21.87      | 33          | PASS    |
|                |             |                | MCH          | RB25#0  | 21.93          | 21.93      | 33          | PASS    |
|                |             |                |              | RB1#0   | 23.11          | 23.11      | 33          | PASS    |
|                |             |                |              | RB1#13  | 23.26          | 23.26      | 33          | PASS    |
|                |             |                |              | RB1#24  | 22.94          | 22.94      | 33          | PASS    |
|                |             |                |              | RB12#0  | 22.37          | 22.37      | 33          | PASS    |
|                |             |                |              | RB12#6  | 22.36          | 22.36      | 33          | PASS    |
|                |             |                |              | RB12#13 | 22.17          | 22.17      | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB25#0  | 22.2           | 22.2       | 33          | PASS    |
|                |           |                | HCH          | RB1#0   | 23.56          | 23.56      | 33          | PASS    |
|                |           |                |              | RB1#13  | 23.69          | 23.69      | 33          | PASS    |
|                |           |                |              | RB1#24  | 23.15          | 23.15      | 33          | PASS    |
|                |           |                |              | RB12#0  | 22.81          | 22.81      | 33          | PASS    |
|                |           |                |              | RB12#6  | 22.83          | 22.83      | 33          | PASS    |
|                |           |                |              | RB12#13 | 22.62          | 22.62      | 33          | PASS    |
|                |           |                |              | RB25#0  | 22.64          | 22.64      | 33          | PASS    |
|                |           | 10             | LCH          | RB1#0   | 22.78          | 22.78      | 33          | PASS    |
|                |           |                |              | RB1#25  | 23.05          | 23.05      | 33          | PASS    |
|                |           |                |              | RB1#49  | 22.66          | 22.66      | 33          | PASS    |
|                |           |                |              | RB25#0  | 21.94          | 21.94      | 33          | PASS    |
|                |           |                |              | RB25#13 | 21.93          | 21.93      | 33          | PASS    |
|                |           |                |              | RB25#25 | 21.81          | 21.81      | 33          | PASS    |
|                |           |                |              | RB50#0  | 21.8           | 21.8       | 33          | PASS    |
|                |           |                | MCH          | RB1#0   | 23.07          | 23.07      | 33          | PASS    |
|                |           |                |              | RB1#25  | 23.35          | 23.35      | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB1#49  | 23.2           | 23.2       | 33          | PASS    |
|                |           |                |              | RB25#0  | 22.18          | 22.18      | 33          | PASS    |
|                |           |                |              | RB25#13 | 22.28          | 22.28      | 33          | PASS    |
|                |           |                |              | RB25#25 | 22.28          | 22.28      | 33          | PASS    |
|                |           |                |              | RB50#0  | 22.25          | 22.25      | 33          | PASS    |
|                |           |                | HCH          | RB1#0   | 23.46          | 23.46      | 33          | PASS    |
|                |           |                |              | RB1#25  | 23.83          | 23.83      | 33          | PASS    |
|                |           |                |              | RB1#49  | 23.39          | 23.39      | 33          | PASS    |
|                |           |                |              | RB25#0  | 22.69          | 22.69      | 33          | PASS    |
|                |           |                |              | RB25#13 | 22.77          | 22.77      | 33          | PASS    |
|                |           |                |              | RB25#25 | 22.71          | 22.71      | 33          | PASS    |
|                |           |                |              | RB50#0  | 22.71          | 22.71      | 33          | PASS    |
|                |           | 15             | LCH          | RB1#0   | 22.57          | 22.57      | 33          | PASS    |
|                |           |                |              | RB1#38  | 22.86          | 22.86      | 33          | PASS    |
|                |           |                |              | RB1#74  | 22.54          | 22.54      | 33          | PASS    |
|                |           |                |              | RB36#0  | 21.9           | 21.9       | 33          | PASS    |
|                |           |                |              | RB36#18 | 22.07          | 22.07      | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB36#39 | 21.85          | 21.85      | 33          | PASS    |
|                |           |                |              | RB75#0  | 21.7           | 21.7       | 33          | PASS    |
|                |           |                | MCH          | RB1#0   | 22.73          | 22.73      | 33          | PASS    |
|                |           |                |              | RB1#38  | 23.28          | 23.28      | 33          | PASS    |
|                |           |                |              | RB1#74  | 23.02          | 23.02      | 33          | PASS    |
|                |           |                |              | RB36#0  | 22.15          | 22.15      | 33          | PASS    |
|                |           |                |              | RB36#18 | 22.34          | 22.34      | 33          | PASS    |
|                |           |                |              | RB36#39 | 22.28          | 22.28      | 33          | PASS    |
|                |           |                |              | RB75#0  | 22.17          | 22.17      | 33          | PASS    |
|                |           |                | HCH          | RB1#0   | 23.19          | 23.19      | 33          | PASS    |
|                |           |                |              | RB1#38  | 23.85          | 23.85      | 33          | PASS    |
|                |           |                |              | RB1#74  | 23.31          | 23.31      | 33          | PASS    |
|                |           |                |              | RB36#0  | 22.59          | 22.59      | 33          | PASS    |
|                |           |                |              | RB36#18 | 22.76          | 22.76      | 33          | PASS    |
|                |           |                |              | RB36#39 | 22.63          | 22.63      | 33          | PASS    |
|                |           |                |              | RB75#0  | 22.69          | 22.69      | 33          | PASS    |
|                |           | 20             | LCH          | RB1#0   | 22.75          | 22.75      | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB1#50  | 23.07          | 23.07      | 33          | PASS    |
|                |           |                |              | RB1#99  | 22.86          | 22.86      | 33          | PASS    |
|                |           |                |              | RB50#0  | 22.01          | 22.01      | 33          | PASS    |
|                |           |                |              | RB50#25 | 21.88          | 21.88      | 33          | PASS    |
|                |           |                |              | RB50#50 | 22.07          | 22.07      | 33          | PASS    |
|                |           |                |              | RB100#0 | 21.96          | 21.96      | 33          | PASS    |
|                |           |                | MCH          | RB1#0   | 22.82          | 22.82      | 33          | PASS    |
|                |           |                |              | RB1#50  | 23.4           | 23.4       | 33          | PASS    |
|                |           |                |              | RB1#99  | 23.32          | 23.32      | 33          | PASS    |
|                |           |                |              | RB50#0  | 22.28          | 22.28      | 33          | PASS    |
|                |           |                |              | RB50#25 | 22.4           | 22.4       | 33          | PASS    |
|                |           |                |              | RB50#50 | 22.41          | 22.41      | 33          | PASS    |
|                |           |                |              | RB100#0 | 22.32          | 22.32      | 33          | PASS    |
|                |           |                | HCH          | RB1#0   | 23.41          | 23.41      | 33          | PASS    |
|                |           |                |              | RB1#50  | 23.86          | 23.86      | 33          | PASS    |
|                |           |                |              | RB1#99  | 23.52          | 23.52      | 33          | PASS    |
|                |           |                |              | RB50#0  | 22.6           | 22.6       | 33          | PASS    |

| Test Band(LTE) | Test Mode   | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-------------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |             |                |              | RB50#25 | 22.85          | 22.85      | 33          | PASS    |
|                |             |                |              | RB50#50 | 22.73          | 22.73      | 33          | PASS    |
|                |             |                |              | RB100#0 | 22.72          | 22.72      | 33          | PASS    |
|                | LTE/TM<br>2 | 5              | LCH          | RB1#0   | 22.21          | 22.21      | 33          | PASS    |
|                |             |                |              | RB1#13  | 22.37          | 22.37      | 33          | PASS    |
|                |             |                |              | RB1#24  | 21.97          | 21.97      | 33          | PASS    |
|                |             |                |              | RB12#0  | 21             | 21         | 33          | PASS    |
|                |             |                |              | RB12#6  | 21.06          | 21.06      | 33          | PASS    |
|                |             |                |              | RB12#13 | 20.87          | 20.87      | 33          | PASS    |
|                |             |                |              | RB25#0  | 20.94          | 20.94      | 33          | PASS    |
|                |             |                | MCH          | RB1#0   | 22.48          | 22.48      | 33          | PASS    |
|                |             |                |              | RB1#13  | 22.61          | 22.61      | 33          | PASS    |
|                |             |                |              | RB1#24  | 22.23          | 22.23      | 33          | PASS    |
|                |             |                |              | RB12#0  | 21.3           | 21.3       | 33          | PASS    |
|                |             |                |              | RB12#6  | 21.29          | 21.29      | 33          | PASS    |
|                |             |                |              | RB12#13 | 21.1           | 21.1       | 33          | PASS    |
|                |             |                |              | RB25#0  | 21.12          | 21.12      | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                | HCH          | RB1#0   | 22.68          | 22.68      | 33          | PASS    |
|                |           |                |              | RB1#13  | 22.81          | 22.81      | 33          | PASS    |
|                |           |                |              | RB1#24  | 22.42          | 22.42      | 33          | PASS    |
|                |           |                |              | RB12#0  | 21.82          | 21.82      | 33          | PASS    |
|                |           |                |              | RB12#6  | 21.83          | 21.83      | 33          | PASS    |
|                |           |                |              | RB12#13 | 21.62          | 21.62      | 33          | PASS    |
|                |           |                |              | RB25#0  | 21.64          | 21.64      | 33          | PASS    |
|                |           | 10             | LCH          | RB1#0   | 22.16          | 22.16      | 33          | PASS    |
|                |           |                |              | RB1#25  | 22.43          | 22.43      | 33          | PASS    |
|                |           |                |              | RB1#49  | 22.04          | 22.04      | 33          | PASS    |
|                |           |                |              | RB25#0  | 20.94          | 20.94      | 33          | PASS    |
|                |           |                |              | RB25#13 | 20.98          | 20.98      | 33          | PASS    |
|                |           |                |              | RB25#25 | 20.86          | 20.86      | 33          | PASS    |
|                |           |                |              | RB50#0  | 20.76          | 20.76      | 33          | PASS    |
|                |           |                | MCH          | RB1#0   | 22.33          | 22.33      | 33          | PASS    |
|                |           |                |              | RB1#25  | 22.68          | 22.68      | 33          | PASS    |
|                |           |                |              | RB1#49  | 22.41          | 22.41      | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB25#0  | 21.12          | 21.12      | 33          | PASS    |
|                |           |                |              | RB25#13 | 21.16          | 21.16      | 33          | PASS    |
|                |           |                |              | RB25#25 | 21.14          | 21.14      | 33          | PASS    |
|                |           |                |              | RB50#0  | 21.25          | 21.25      | 33          | PASS    |
|                |           |                | HCH          | RB1#0   | 22.57          | 22.57      | 33          | PASS    |
|                |           |                |              | RB1#25  | 22.84          | 22.84      | 33          | PASS    |
|                |           |                |              | RB1#49  | 22.55          | 22.55      | 33          | PASS    |
|                |           |                |              | RB25#0  | 21.53          | 21.53      | 33          | PASS    |
|                |           |                |              | RB25#13 | 21.63          | 21.63      | 33          | PASS    |
|                |           |                |              | RB25#25 | 21.58          | 21.58      | 33          | PASS    |
|                |           |                |              | RB50#0  | 21.54          | 21.54      | 33          | PASS    |
|                |           | 15             | LCH          | RB1#0   | 21.87          | 21.87      | 33          | PASS    |
|                |           |                |              | RB1#38  | 22.17          | 22.17      | 33          | PASS    |
|                |           |                |              | RB1#74  | 21.82          | 21.82      | 33          | PASS    |
|                |           |                |              | RB36#0  | 20.82          | 20.82      | 33          | PASS    |
|                |           |                |              | RB36#18 | 21.04          | 21.04      | 33          | PASS    |
|                |           |                |              | RB36#39 | 20.83          | 20.83      | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB75#0  | 20.7           | 20.7       | 33          | PASS    |
|                |           |                | MCH          | RB1#0   | 21.89          | 21.89      | 33          | PASS    |
|                |           |                |              | RB1#38  | 22.47          | 22.47      | 33          | PASS    |
|                |           |                |              | RB1#74  | 22.16          | 22.16      | 33          | PASS    |
|                |           |                |              | RB36#0  | 21.13          | 21.13      | 33          | PASS    |
|                |           |                |              | RB36#18 | 21.31          | 21.31      | 33          | PASS    |
|                |           |                |              | RB36#39 | 21.23          | 21.23      | 33          | PASS    |
|                |           |                |              | RB75#0  | 21.1           | 21.1       | 33          | PASS    |
|                |           |                | HCH          | RB1#0   | 22.54          | 22.54      | 33          | PASS    |
|                |           |                |              | RB1#38  | 23.04          | 23.04      | 33          | PASS    |
|                |           |                |              | RB1#74  | 22.54          | 22.54      | 33          | PASS    |
|                |           |                |              | RB36#0  | 21.56          | 21.56      | 33          | PASS    |
|                |           |                |              | RB36#18 | 21.71          | 21.71      | 33          | PASS    |
|                |           |                |              | RB36#39 | 21.57          | 21.57      | 33          | PASS    |
|                |           |                |              | RB75#0  | 21.65          | 21.65      | 33          | PASS    |
|                |           | 20             | LCH          | RB1#0   | 22.15          | 22.15      | 33          | PASS    |
|                |           |                |              | RB1#50  | 22.46          | 22.46      | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB1#99  | 22.21          | 22.21      | 33          | PASS    |
|                |           |                |              | RB50#0  | 20.99          | 20.99      | 33          | PASS    |
|                |           |                |              | RB50#25 | 20.87          | 20.87      | 33          | PASS    |
|                |           |                |              | RB50#50 | 21.05          | 21.05      | 33          | PASS    |
|                |           |                |              | RB100#0 | 20.99          | 20.99      | 33          | PASS    |
|                |           |                | MCH          | RB1#0   | 22.26          | 22.26      | 33          | PASS    |
|                |           |                |              | RB1#50  | 22.84          | 22.84      | 33          | PASS    |
|                |           |                |              | RB1#99  | 22.7           | 22.7       | 33          | PASS    |
|                |           |                |              | RB50#0  | 21.25          | 21.25      | 33          | PASS    |
|                |           |                |              | RB50#25 | 21.35          | 21.35      | 33          | PASS    |
|                |           |                |              | RB50#50 | 21.4           | 21.4       | 33          | PASS    |
|                |           |                |              | RB100#0 | 21.32          | 21.32      | 33          | PASS    |
|                |           |                | HCH          | RB1#0   | 22.59          | 22.59      | 33          | PASS    |
|                |           |                |              | RB1#50  | 23             | 23         | 33          | PASS    |
|                |           |                |              | RB1#99  | 22.77          | 22.77      | 33          | PASS    |
|                |           |                |              | RB50#0  | 21.56          | 21.56      | 33          | PASS    |
|                |           |                |              | RB50#25 | 21.8           | 21.8       | 33          | PASS    |

| Test Band(LTE) | Test Mode | Test Bandwidth | Test Channel | Test RB | Measured [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|----------------|-----------|----------------|--------------|---------|----------------|------------|-------------|---------|
|                |           |                |              | RB50#50 | 21.65          | 21.65      | 33          | PASS    |
|                |           |                |              | RB100#0 | 21.69          | 21.69      | 33          | PASS    |

Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

Note2:

$$\text{SET Span} = 1.5 \times \text{OBW}$$

$$\text{SET RBW} = 1\% \text{ of the OBW, not to exceed 1MHz}$$

$$\text{SET VBW} \geq 3 \times \text{RBW}$$

$$\text{SET Sweep time} = \text{auto-couple.}$$

Detector:RMS



## 2Appendix\_B: Peak-to-Average Ratio

### Part I - Test Results

| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
| BAND38             | LTE/TM1   | 5                    | LCH          | RB1#0   | 4.27         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 4.26         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 4.41         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 5.51         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 5.26         | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 5.41         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 5.87         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 4.56         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 4.41         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 4.69         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 5.86         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 5.77         | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 5.88         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.45         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 3.38         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 3.21         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 3.66         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 4.13         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 3.7          | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 4.24         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 4.66         | 13         | PASS    |
|                    |           | 10                   | LCH          | RB1#0   | 4.86         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 4.66         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 4.93         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 5.68         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 5.64         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 5.87         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 5.77         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 4.46         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 4.24         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 4.57         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 5.77         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 5.77         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 5.82         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6.31         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 3.71         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 3.13         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 3.42         | 13         | PASS    |

| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
|                    |           |                      |              | RB25#0  | 4.42         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 3.97         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 4.36         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 5            | 13         | PASS    |
|                    |           | 15                   | LCH          | RB1#0   | 5.02         | 13         | PASS    |
|                    |           |                      |              | RB1#38  | 4.89         | 13         | PASS    |
|                    |           |                      |              | RB1#74  | 4.99         | 13         | PASS    |
|                    |           |                      |              | RB36#0  | 5.8          | 13         | PASS    |
|                    |           |                      |              | RB36#18 | 5.88         | 13         | PASS    |
|                    |           |                      |              | RB36#39 | 5.98         | 13         | PASS    |
|                    |           |                      |              | RB75#0  | 6.58         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 4.51         | 13         | PASS    |
|                    |           |                      |              | RB1#38  | 4.33         | 13         | PASS    |
|                    |           |                      |              | RB1#74  | 4.42         | 13         | PASS    |
|                    |           |                      |              | RB36#0  | 5.61         | 13         | PASS    |
|                    |           |                      |              | RB36#18 | 5.6          | 13         | PASS    |
|                    |           |                      |              | RB36#39 | 5.71         | 13         | PASS    |
|                    |           |                      |              | RB75#0  | 6.31         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 4.16         | 13         | PASS    |
|                    |           |                      |              | RB1#38  | 3.24         | 13         | PASS    |
|                    |           |                      |              | RB1#74  | 3.49         | 13         | PASS    |
|                    |           |                      |              | RB36#0  | 5.13         | 13         | PASS    |
|                    |           |                      |              | RB36#18 | 4.1          | 13         | PASS    |
|                    |           |                      |              | RB36#39 | 4.48         | 13         | PASS    |
|                    |           |                      |              | RB75#0  | 5.26         | 13         | PASS    |
|                    |           | 20                   | LCH          | RB1#0   | 5.01         | 13         | PASS    |
|                    |           |                      |              | RB1#50  | 4.71         | 13         | PASS    |
|                    |           |                      |              | RB1#99  | 5.08         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6            | 13         | PASS    |
|                    |           |                      |              | RB50#25 | 6.11         | 13         | PASS    |
|                    |           |                      |              | RB50#50 | 5.97         | 13         | PASS    |
|                    |           |                      |              | RB100#0 | 6.49         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 4.86         | 13         | PASS    |
|                    |           |                      |              | RB1#50  | 4.76         | 13         | PASS    |
|                    |           |                      |              | RB1#99  | 4.39         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 5.91         | 13         | PASS    |
|                    |           |                      |              | RB50#25 | 6.04         | 13         | PASS    |
|                    |           |                      |              | RB50#50 | 6.05         | 13         | PASS    |
|                    |           |                      |              | RB100#0 | 6.15         | 13         | PASS    |

| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
|                    | LTE/TM2   |                      | HCH          | RB1#0   | 4.58         | 13         | PASS    |
|                    |           |                      |              | RB1#50  | 3.35         | 13         | PASS    |
|                    |           |                      |              | RB1#99  | 3.72         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 5.47         | 13         | PASS    |
|                    |           |                      |              | RB50#25 | 4.74         | 13         | PASS    |
|                    |           |                      |              | RB50#50 | 4.49         | 13         | PASS    |
|                    |           |                      |              | RB100#0 | 5.71         | 13         | PASS    |
|                    |           | 5                    | LCH          | RB1#0   | 5.34         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 5.34         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 5.68         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 6.38         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 6.14         | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 6.35         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.77         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 6.09         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 6.03         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 6.24         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 6.3          | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 6.1          | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 6.3          | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.8          | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 3.58         | 13         | PASS    |
|                    |           |                      |              | RB1#13  | 3.29         | 13         | PASS    |
|                    |           |                      |              | RB1#24  | 4.34         | 13         | PASS    |
|                    |           |                      |              | RB12#0  | 5.12         | 13         | PASS    |
|                    |           |                      |              | RB12#6  | 4.7          | 13         | PASS    |
|                    |           |                      |              | RB12#13 | 5.04         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 5.69         | 13         | PASS    |
|                    |           | 10                   | LCH          | RB1#0   | 5.55         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 5.54         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 5.7          | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.3          | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 6.37         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 6.44         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6.74         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 5.59         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 5.32         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 5.55         | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 6.9          | 13         | PASS    |

| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
|                    |           |                      |              | RB25#13 | 7.02         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 7            | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6.97         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 4.44         | 13         | PASS    |
|                    |           |                      |              | RB1#25  | 3.35         | 13         | PASS    |
|                    |           |                      |              | RB1#49  | 3.8          | 13         | PASS    |
|                    |           |                      |              | RB25#0  | 5.41         | 13         | PASS    |
|                    |           |                      |              | RB25#13 | 4.86         | 13         | PASS    |
|                    |           |                      |              | RB25#25 | 5.16         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 5.85         | 13         | PASS    |
|                    |           | 15                   | LCH          | RB1#0   | 5.56         | 13         | PASS    |
|                    |           |                      |              | RB1#38  | 5.55         | 13         | PASS    |
|                    |           |                      |              | RB1#74  | 5.54         | 13         | PASS    |
|                    |           |                      |              | RB36#0  | 6.64         | 13         | PASS    |
|                    |           |                      |              | RB36#18 | 6.62         | 13         | PASS    |
|                    |           |                      |              | RB36#39 | 6.61         | 13         | PASS    |
|                    |           |                      |              | RB75#0  | 6.77         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 5.66         | 13         | PASS    |
|                    |           |                      |              | RB1#38  | 5.47         | 13         | PASS    |
|                    |           |                      |              | RB1#74  | 5.48         | 13         | PASS    |
|                    |           |                      |              | RB36#0  | 6.76         | 13         | PASS    |
|                    |           |                      |              | RB36#18 | 6.74         | 13         | PASS    |
|                    |           |                      |              | RB36#39 | 6.87         | 13         | PASS    |
|                    |           |                      |              | RB75#0  | 7.05         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 4.75         | 13         | PASS    |
|                    |           |                      |              | RB1#38  | 3.46         | 13         | PASS    |
|                    |           |                      |              | RB1#74  | 4.01         | 13         | PASS    |
|                    |           |                      |              | RB36#0  | 5.59         | 13         | PASS    |
|                    |           |                      |              | RB36#18 | 5.07         | 13         | PASS    |
|                    |           |                      |              | RB36#39 | 5.32         | 13         | PASS    |
|                    |           |                      |              | RB75#0  | 6.06         | 13         | PASS    |
|                    |           | 20                   | LCH          | RB1#0   | 5.37         | 13         | PASS    |
|                    |           |                      |              | RB1#50  | 5.43         | 13         | PASS    |
|                    |           |                      |              | RB1#99  | 5.55         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6.68         | 13         | PASS    |
|                    |           |                      |              | RB50#25 | 6.54         | 13         | PASS    |
|                    |           |                      |              | RB50#50 | 6.46         | 13         | PASS    |
|                    |           |                      |              | RB100#0 | 6.95         | 13         | PASS    |
|                    |           |                      | MCH          | RB1#0   | 5.35         | 13         | PASS    |

| Test Band(For LTE) | Test Mode | Test Bandwidth (MHz) | Test Channel | Test RB | Measured[dB] | Limit [dB] | Verdict |
|--------------------|-----------|----------------------|--------------|---------|--------------|------------|---------|
|                    |           |                      |              | RB1#50  | 5.25         | 13         | PASS    |
|                    |           |                      |              | RB1#99  | 5.05         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6.93         | 13         | PASS    |
|                    |           |                      |              | RB50#25 | 7.03         | 13         | PASS    |
|                    |           |                      |              | RB50#50 | 6.67         | 13         | PASS    |
|                    |           |                      |              | RB100#0 | 6.76         | 13         | PASS    |
|                    |           |                      | HCH          | RB1#0   | 5.45         | 13         | PASS    |
|                    |           |                      |              | RB1#50  | 4.2          | 13         | PASS    |
|                    |           |                      |              | RB1#99  | 4.11         | 13         | PASS    |
|                    |           |                      |              | RB50#0  | 6.02         | 13         | PASS    |
|                    |           |                      |              | RB50#25 | 5.44         | 13         | PASS    |
|                    |           |                      |              | RB50#50 | 5.46         | 13         | PASS    |
|                    |           |                      |              | RB100#0 | 6.21         | 13         | PASS    |

## 3Appendix\_C: Modulation Characteristics

### Part I - Test Plots

#### 3.1 For LTE

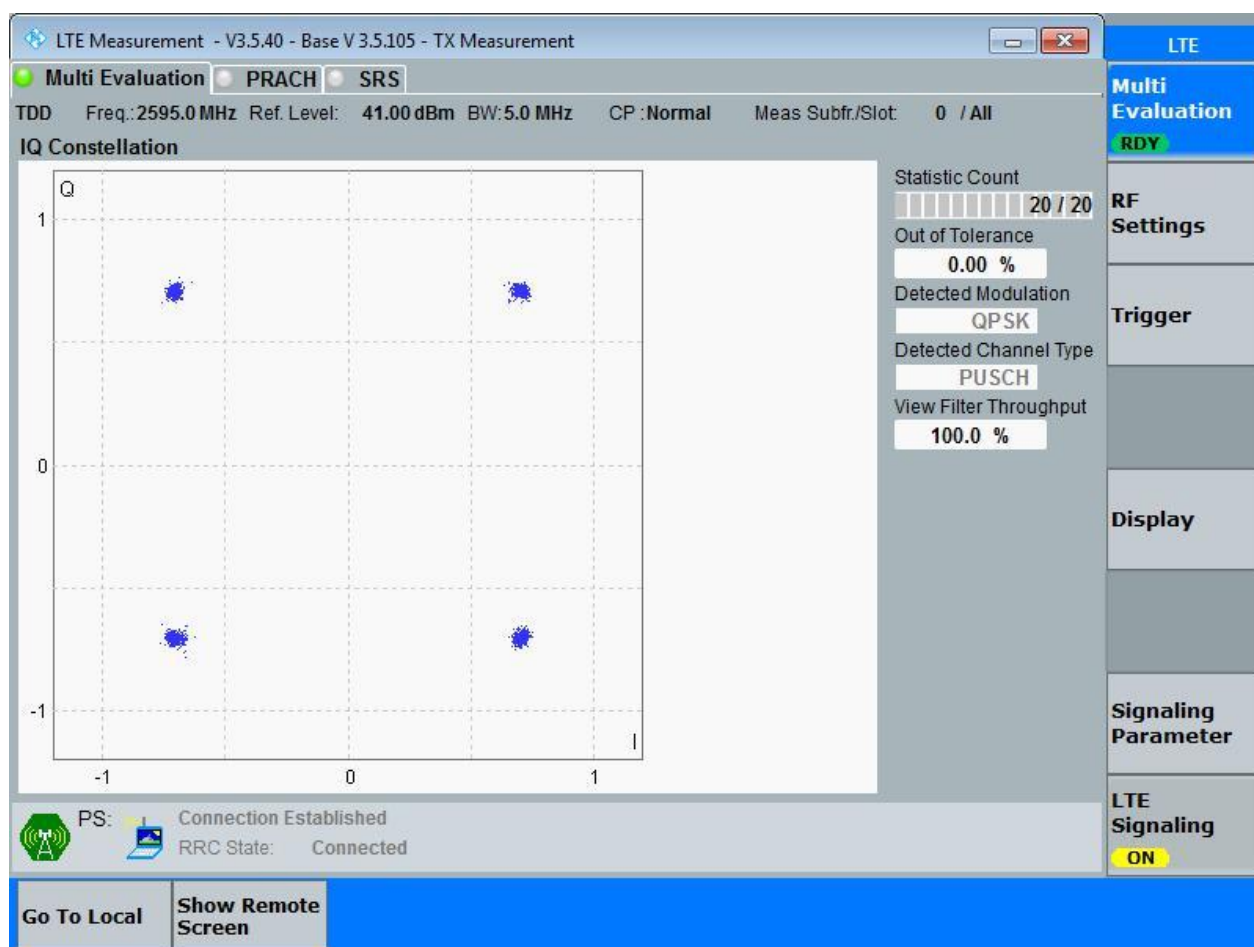
##### 3.1.1 Test Band = BAND38

##### 3.1.1.1 Test Mode = LTE/TM1

##### 3.1.1.1.1 Test Bandwidth = 5

##### 3.1.1.1.1.1 Test Channel = MCH

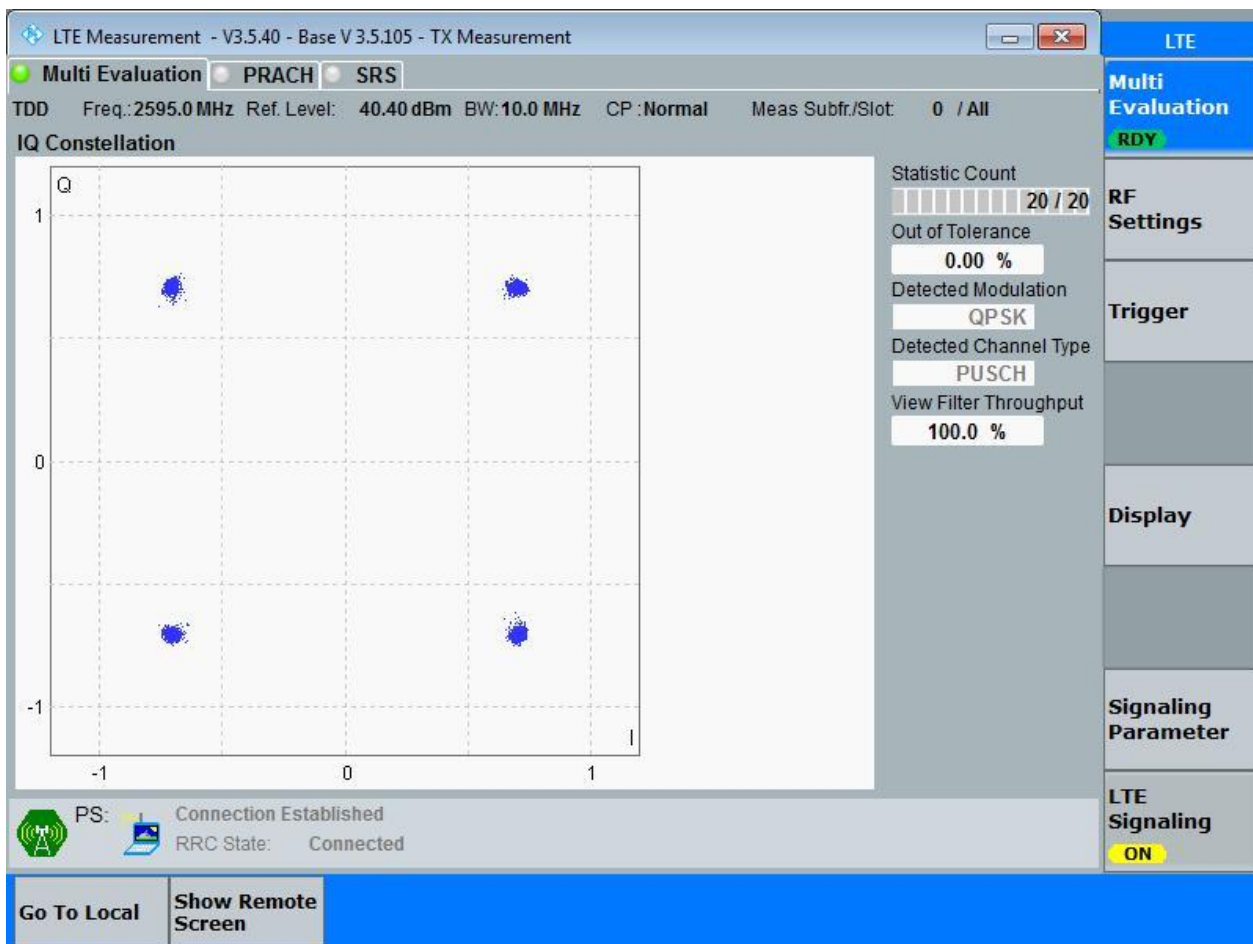
##### 3.1.1.1.1.1.1 Test RB = RB25#0



### 3.1.1.1.2 Test Bandwidth = 10

#### 3.1.1.1.2.1 Test Channel = MCH

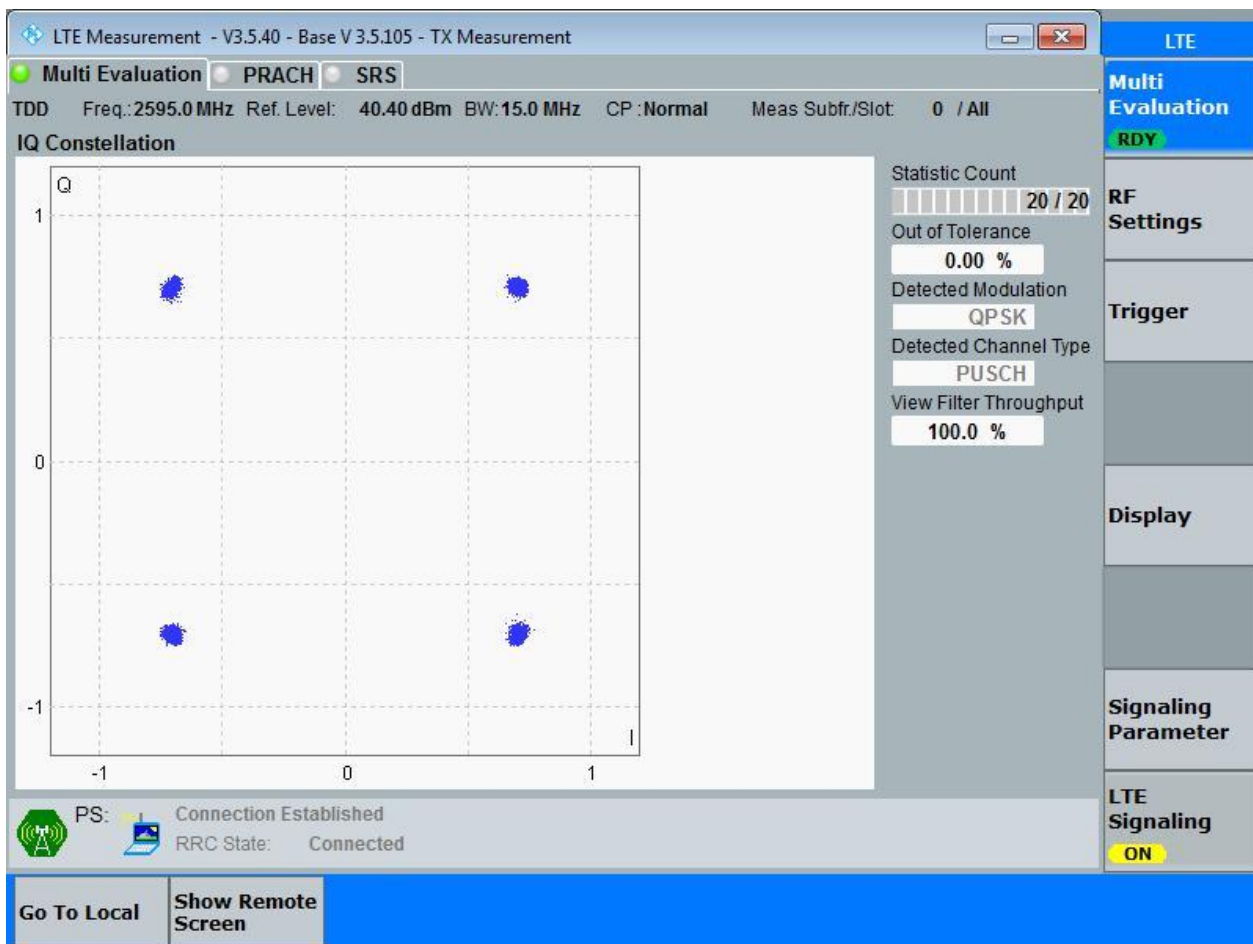
##### 3.1.1.1.2.1.1 Test RB = RB50#0



### 3.1.1.1.3 Test Bandwidth = 15

#### 3.1.1.1.3.1 Test Channel = MCH

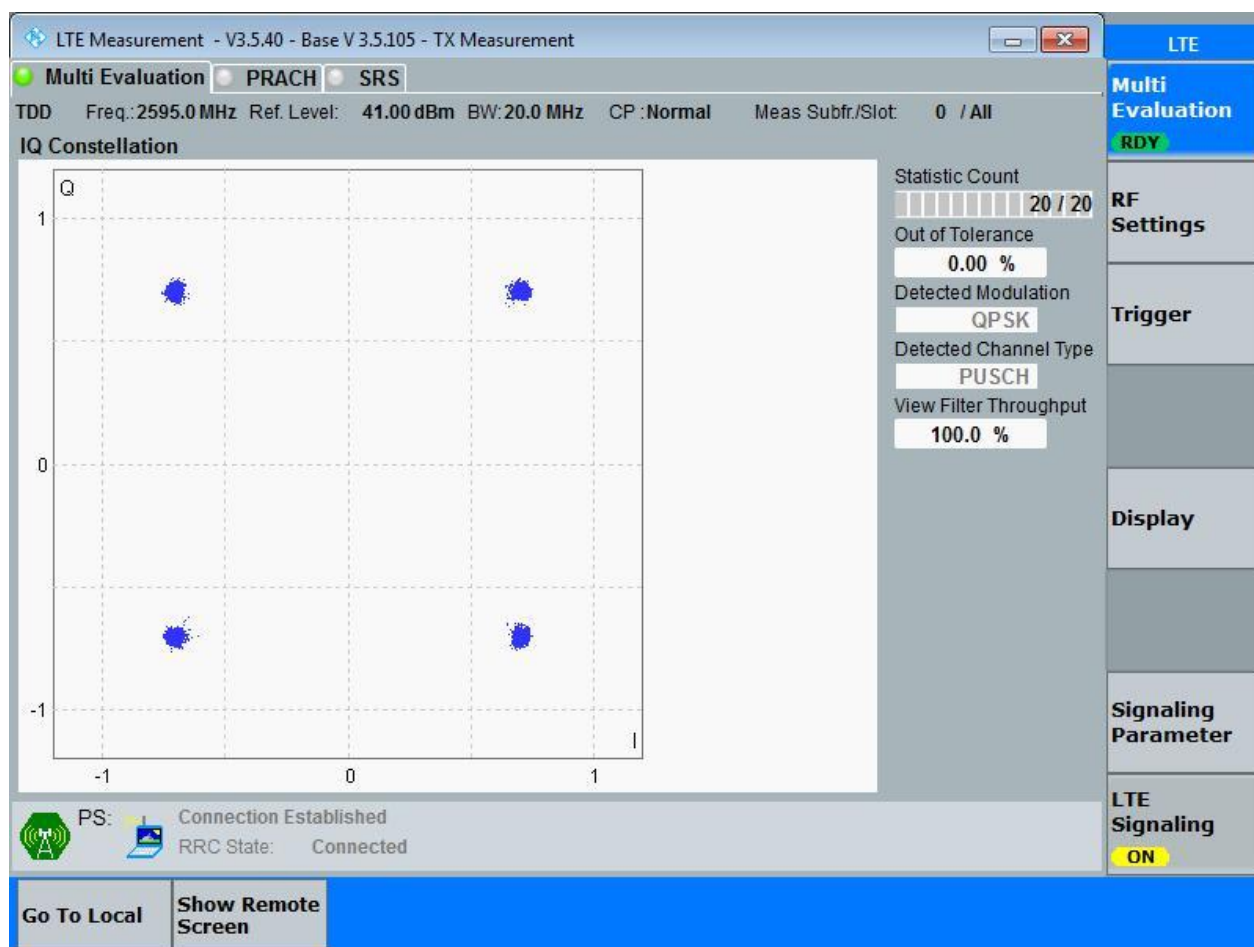
##### 3.1.1.1.3.1.1 Test RB = RB75#0



### 3.1.1.1.4 Test Bandwidth = 20

#### 3.1.1.1.4.1 Test Channel = MCH

##### 3.1.1.1.4.1.1 Test RB = RB100#0

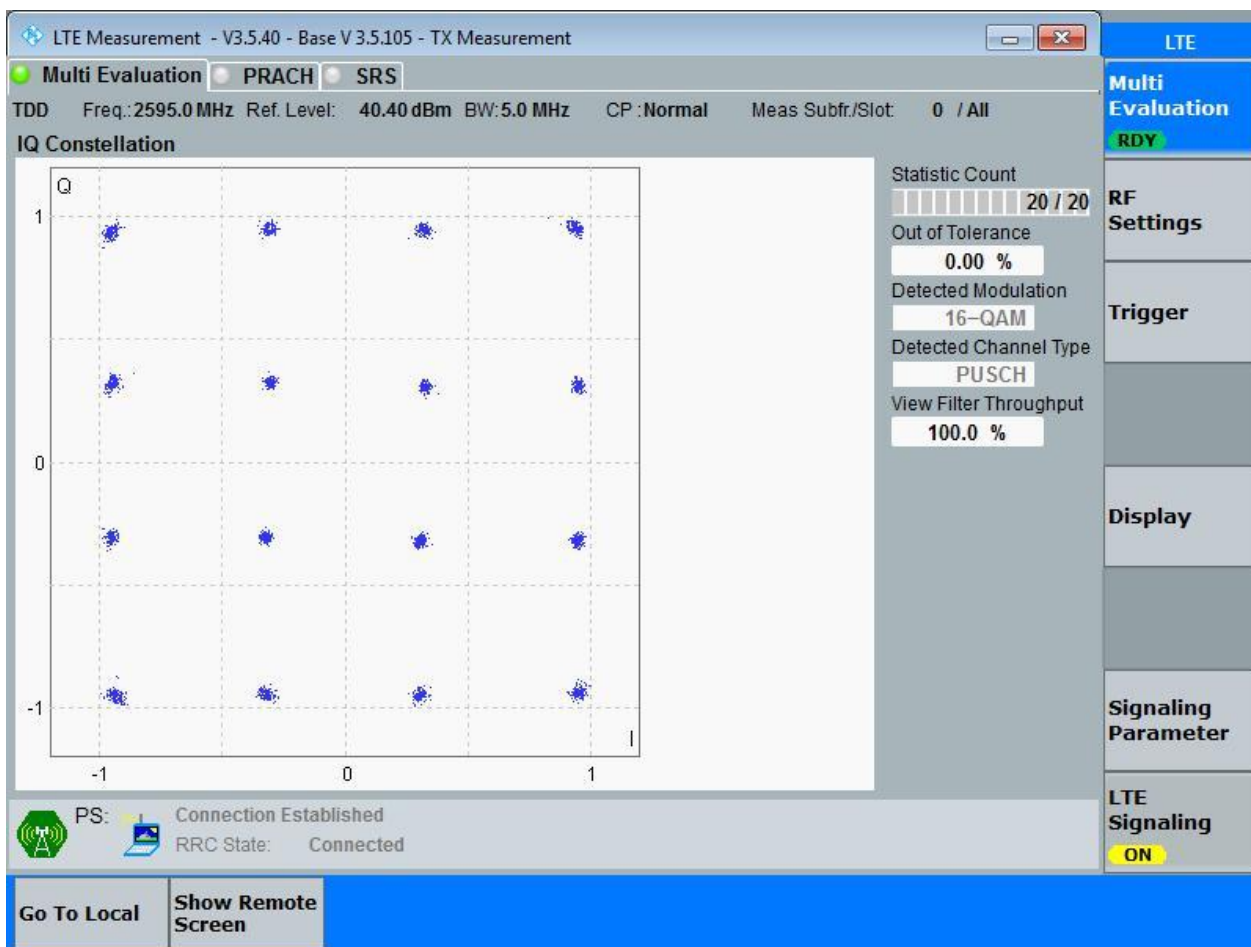


### 3.1.1.2 Test Mode = LTE/TM2

#### 3.1.1.2.1 Test Bandwidth = 5

##### 3.1.1.2.1.1 Test Channel = MCH

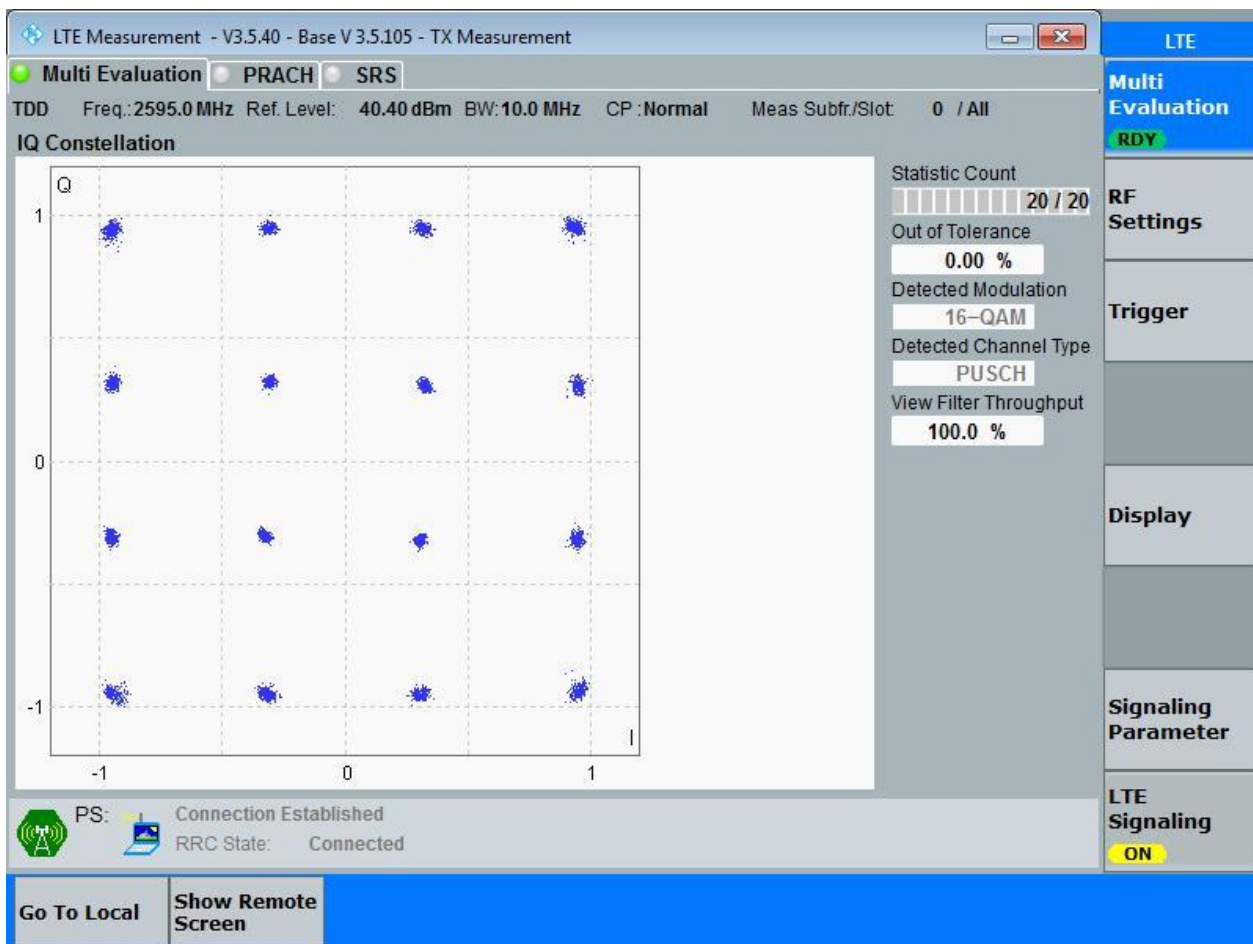
##### 3.1.1.2.1.1.1 Test RB = RB25#0



### 3.1.1.2.2 Test Bandwidth = 10

#### 3.1.1.2.2.1 Test Channel = MCH

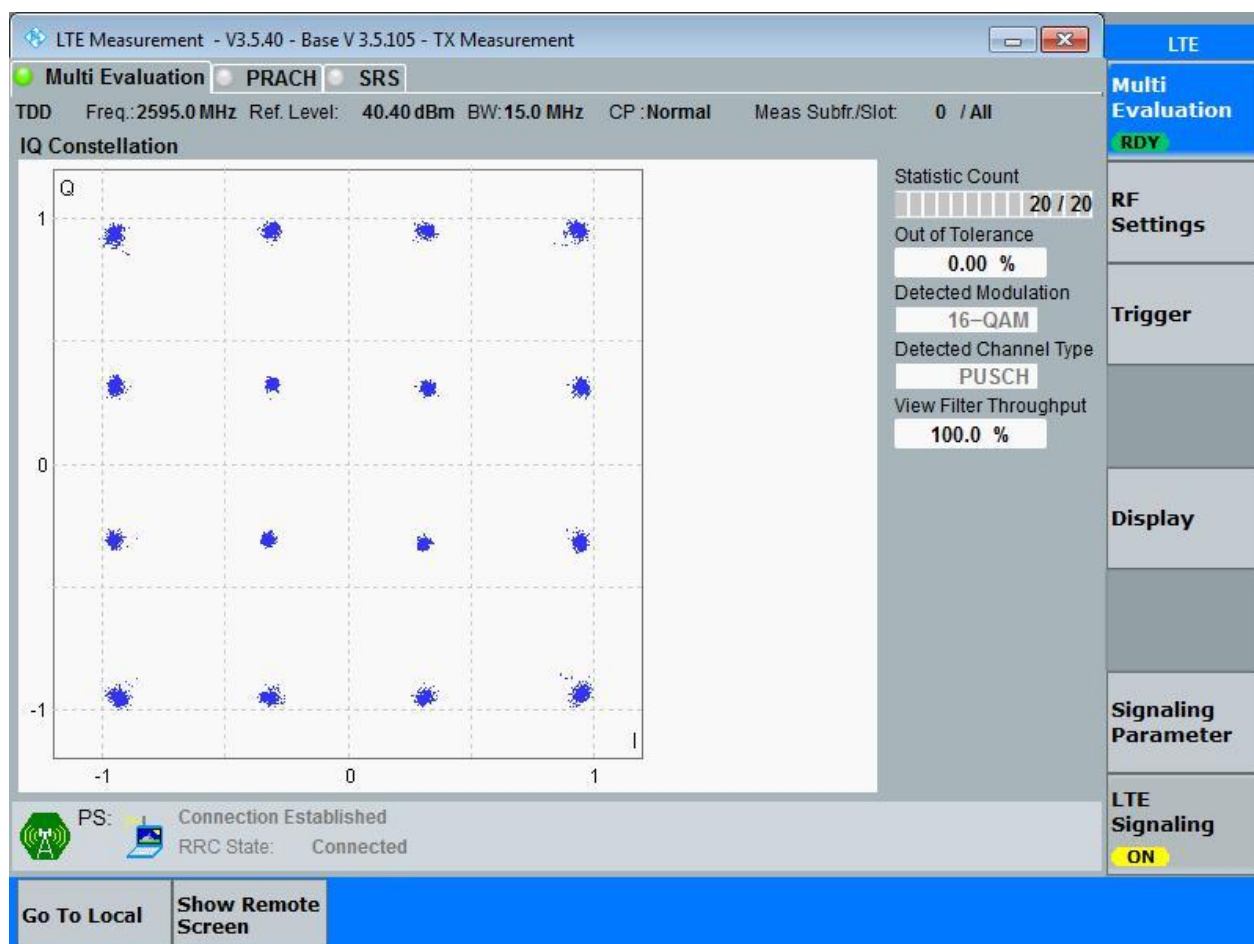
##### 3.1.1.2.2.1.1 Test RB = RB50#0



### 3.1.1.2.3 Test Bandwidth = 15

#### 3.1.1.2.3.1 Test Channel = MCH

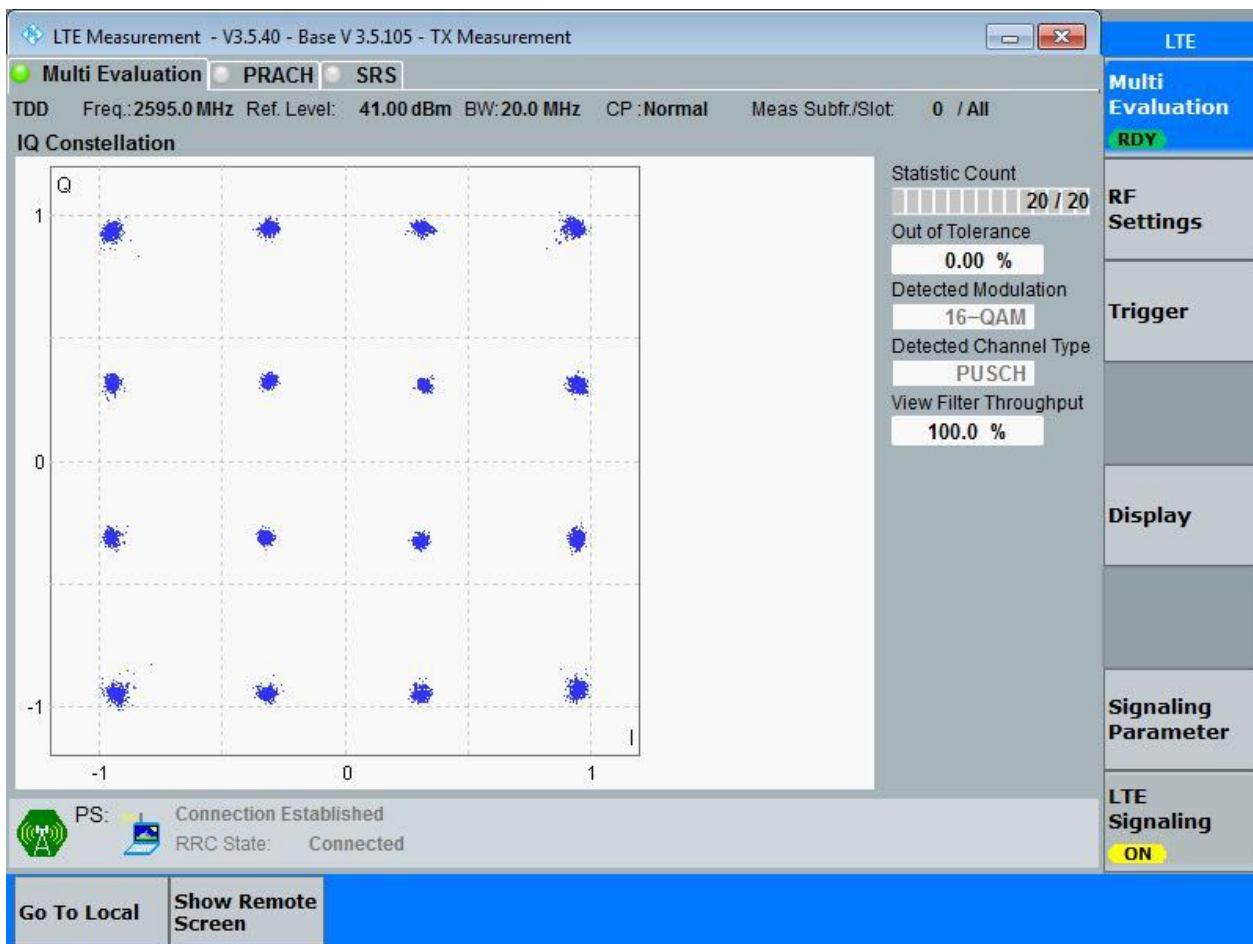
##### 3.1.1.2.3.1.1 Test RB = RB75#0



### 3.1.1.2.4 Test Bandwidth = 20

#### 3.1.1.2.4.1 Test Channel = MCH

##### 3.1.1.2.4.1.1 Test RB = RB100#0



## 4Appendix\_D: Bandwidth

### Part I - Test Results

| Test Band | Test Mode | Test Bandwidth | Test Channel | Test RB | Occupied Bandwidth [MHz] | Emission Bandwidth [MHz] | Verdict |
|-----------|-----------|----------------|--------------|---------|--------------------------|--------------------------|---------|
| BAND38    | LTE/TM1   | 5              | LCH          | RB25#0  | 4.50                     | 4.84                     | Pass    |
|           |           |                | MCH          | RB25#0  | 4.49                     | 4.84                     | Pass    |
|           |           |                | HCH          | RB25#0  | 4.50                     | 4.88                     | Pass    |
|           |           | 10             | LCH          | RB50#0  | 8.99                     | 9.64                     | Pass    |
|           |           |                | MCH          | RB50#0  | 8.99                     | 9.61                     | Pass    |
|           |           |                | HCH          | RB50#0  | 9.00                     | 9.58                     | Pass    |
|           |           | 15             | LCH          | RB75#0  | 13.46                    | 14.39                    | Pass    |
|           |           |                | MCH          | RB75#0  | 13.47                    | 14.28                    | Pass    |
|           |           |                | HCH          | RB75#0  | 13.47                    | 14.34                    | Pass    |
|           |           | 20             | LCH          | RB100#0 | 17.97                    | 20.05                    | Pass    |
|           |           |                | MCH          | RB100#0 | 18.02                    | 20.14                    | Pass    |
|           |           |                | HCH          | RB100#0 | 17.91                    | 19.79                    | Pass    |
|           | LTE/TM2   | 5              | LCH          | RB25#0  | 4.50                     | 4.86                     | Pass    |
|           |           |                | MCH          | RB25#0  | 4.49                     | 4.84                     | Pass    |
|           |           |                | HCH          | RB25#0  | 4.50                     | 4.87                     | Pass    |
|           |           | 10             | LCH          | RB50#0  | 8.99                     | 9.60                     | Pass    |
|           |           |                | MCH          | RB50#0  | 9.00                     | 9.62                     | Pass    |
|           |           |                | HCH          | RB50#0  | 8.98                     | 9.62                     | Pass    |
|           |           | 15             | LCH          | RB75#0  | 13.48                    | 14.40                    | Pass    |
|           |           |                | MCH          | RB75#0  | 13.47                    | 14.31                    | Pass    |
|           |           |                | HCH          | RB75#0  | 13.46                    | 14.33                    | Pass    |
|           |           | 20             | LCH          | RB100#0 | 17.97                    | 19.09                    | Pass    |
|           |           |                | MCH          | RB100#0 | 17.96                    | 19.04                    | Pass    |
|           |           |                | HCH          | RB100#0 | 17.95                    | 19.03                    | Pass    |



## Part II - Test Plots

### 4.1 For LTE

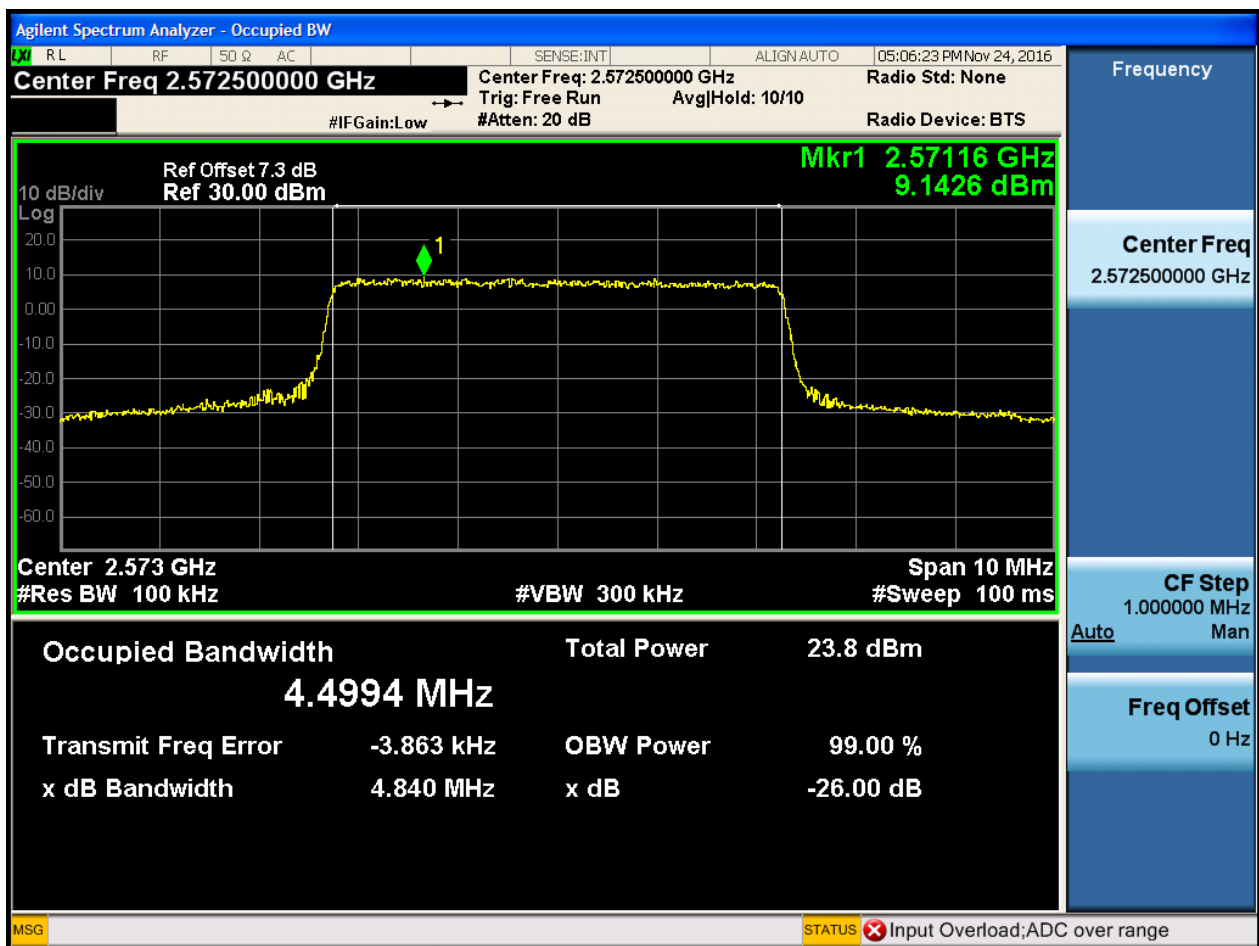
#### 4.1.1 Test Band = BAND38

##### 4.1.1.1 Test Mode = LTE/TM1

##### 4.1.1.1.1 Test Bandwidth = 5

##### 4.1.1.1.1.1 Test Channel = LCH

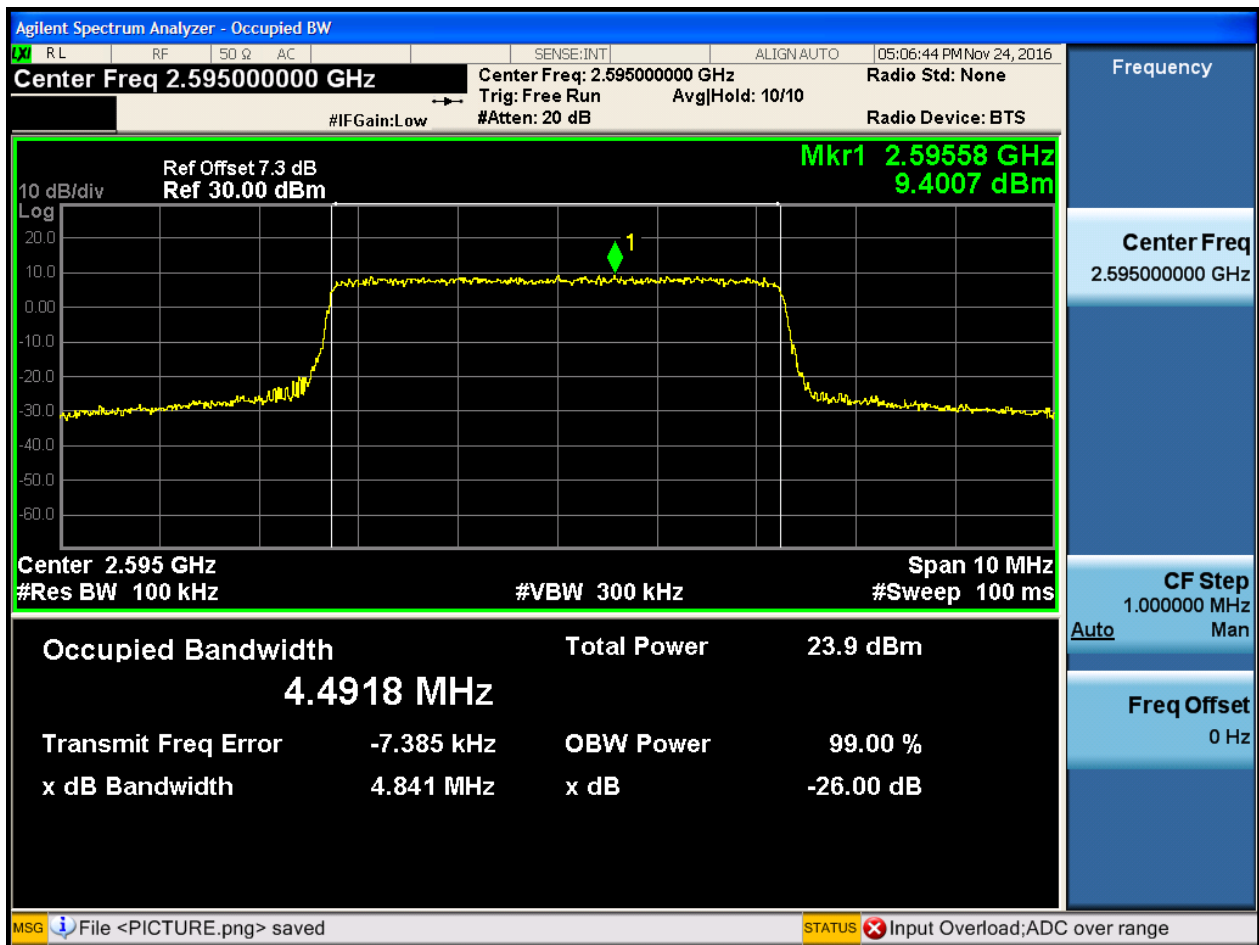
##### 4.1.1.1.1.1.1 Test RB = RB25#0





## 4.1.1.1.1.2 Test Channel = MCH

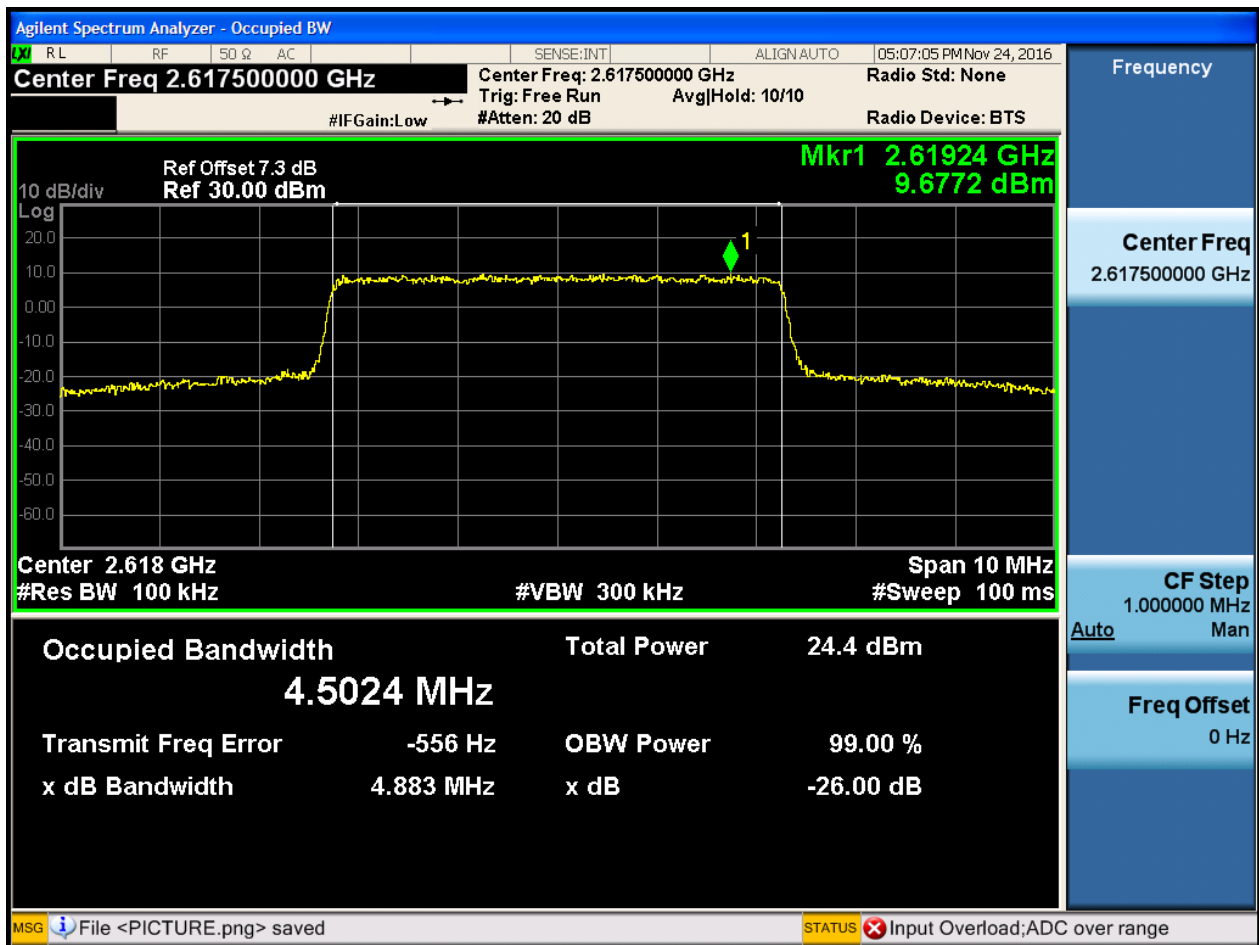
## 4.1.1.1.1.2.1 Test RB = RB25#0





## 4.1.1.1.1.3 Test Channel = HCH

## 4.1.1.1.1.3.1 Test RB = RB25#0

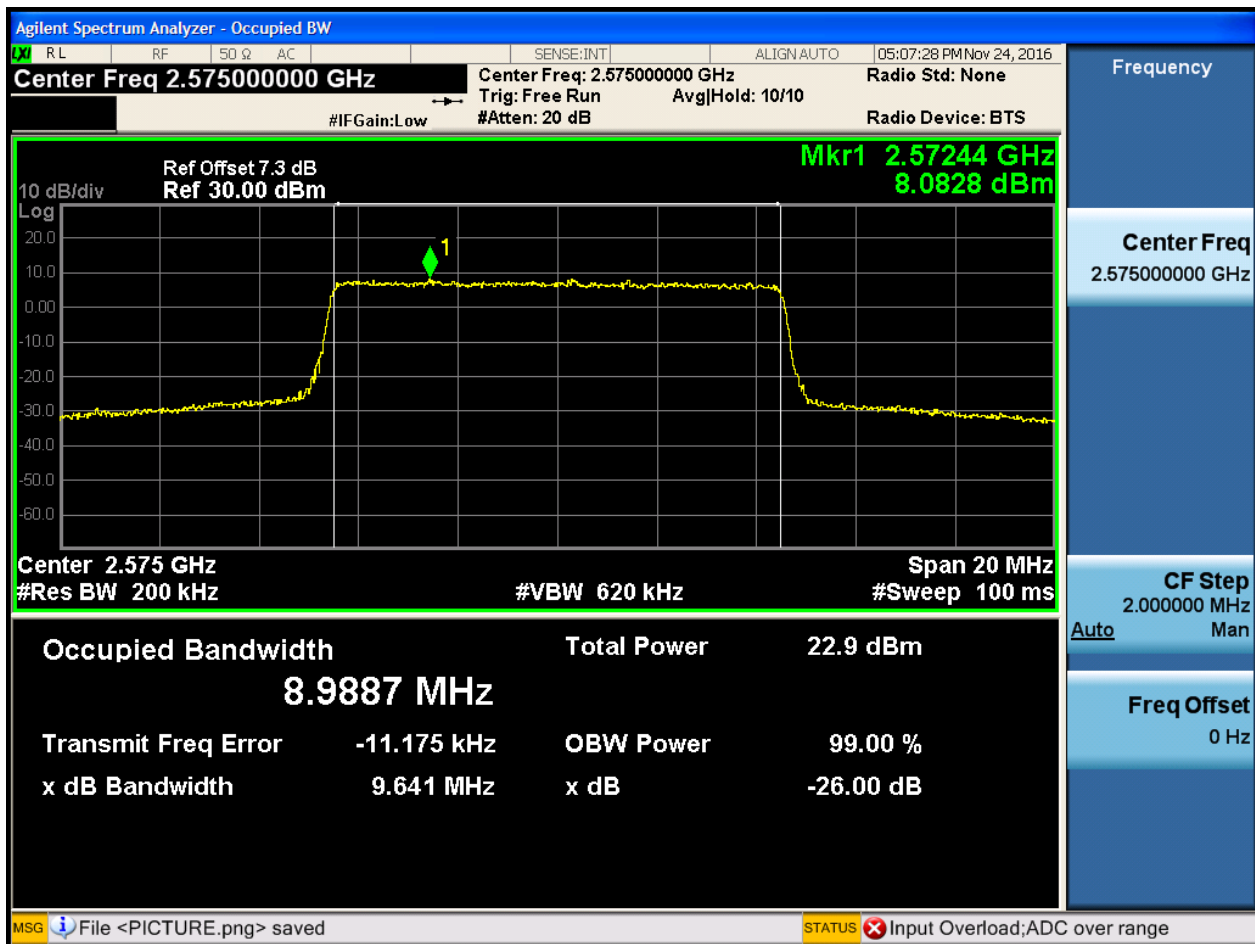




## 4.1.1.1.2 Test Bandwidth = 10

## 4.1.1.1.2.1 Test Channel = LCH

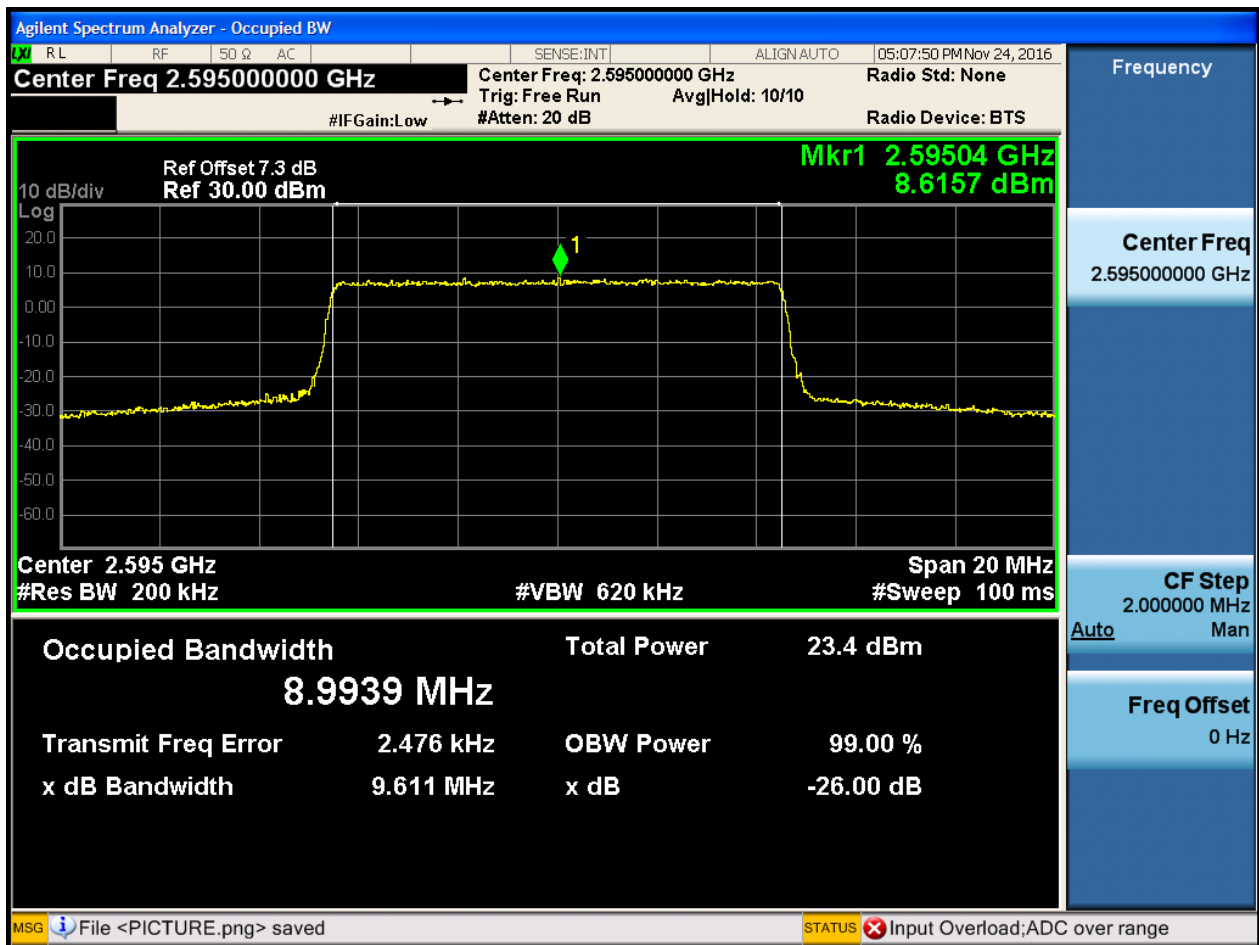
## 4.1.1.1.2.1.1 Test RB = RB50#0





## 4.1.1.1.2.2 Test Channel = MCH

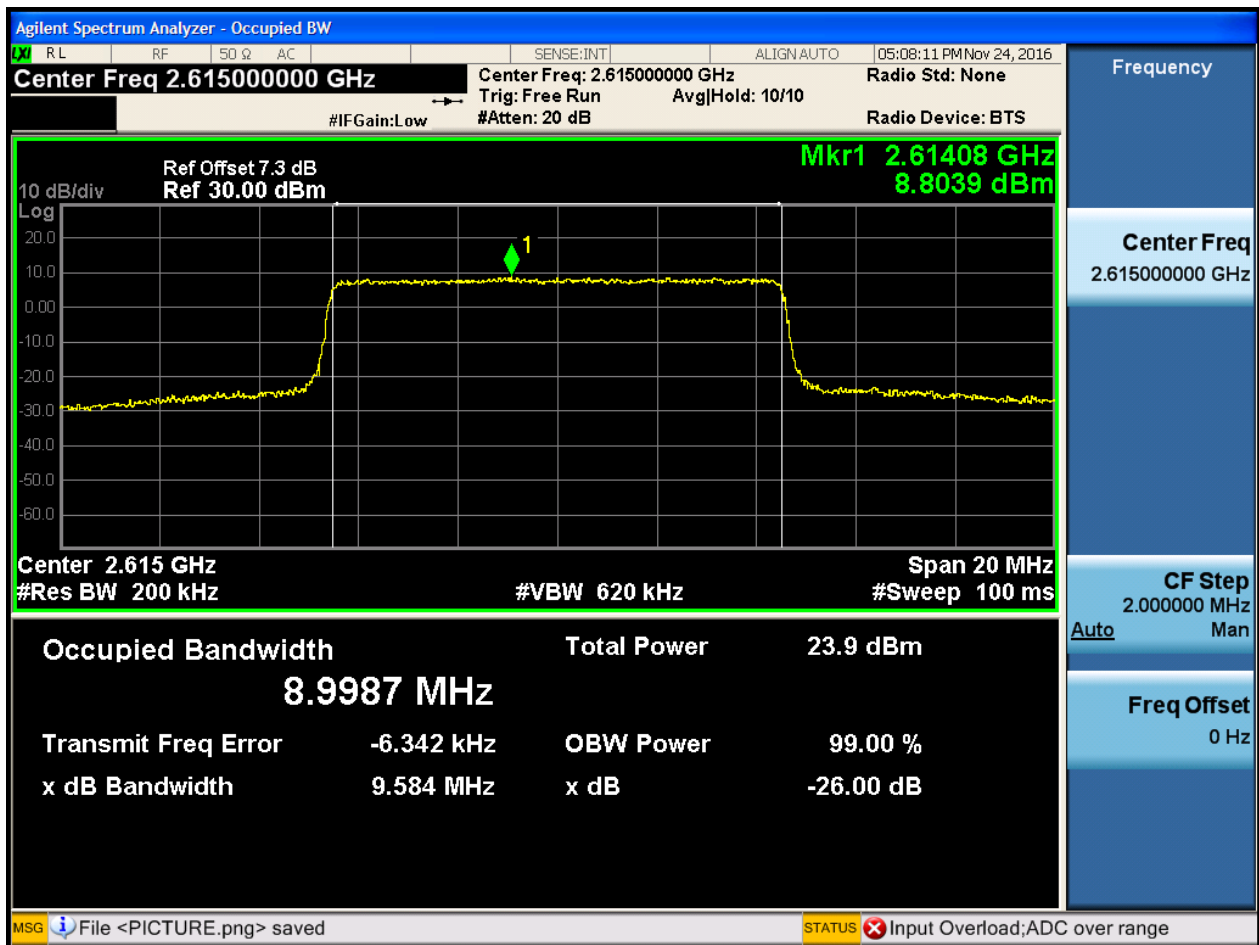
## 4.1.1.1.2.2.1 Test RB = RB50#0





## 4.1.1.1.2.3 Test Channel = HCH

## 4.1.1.1.2.3.1 Test RB = RB50#0

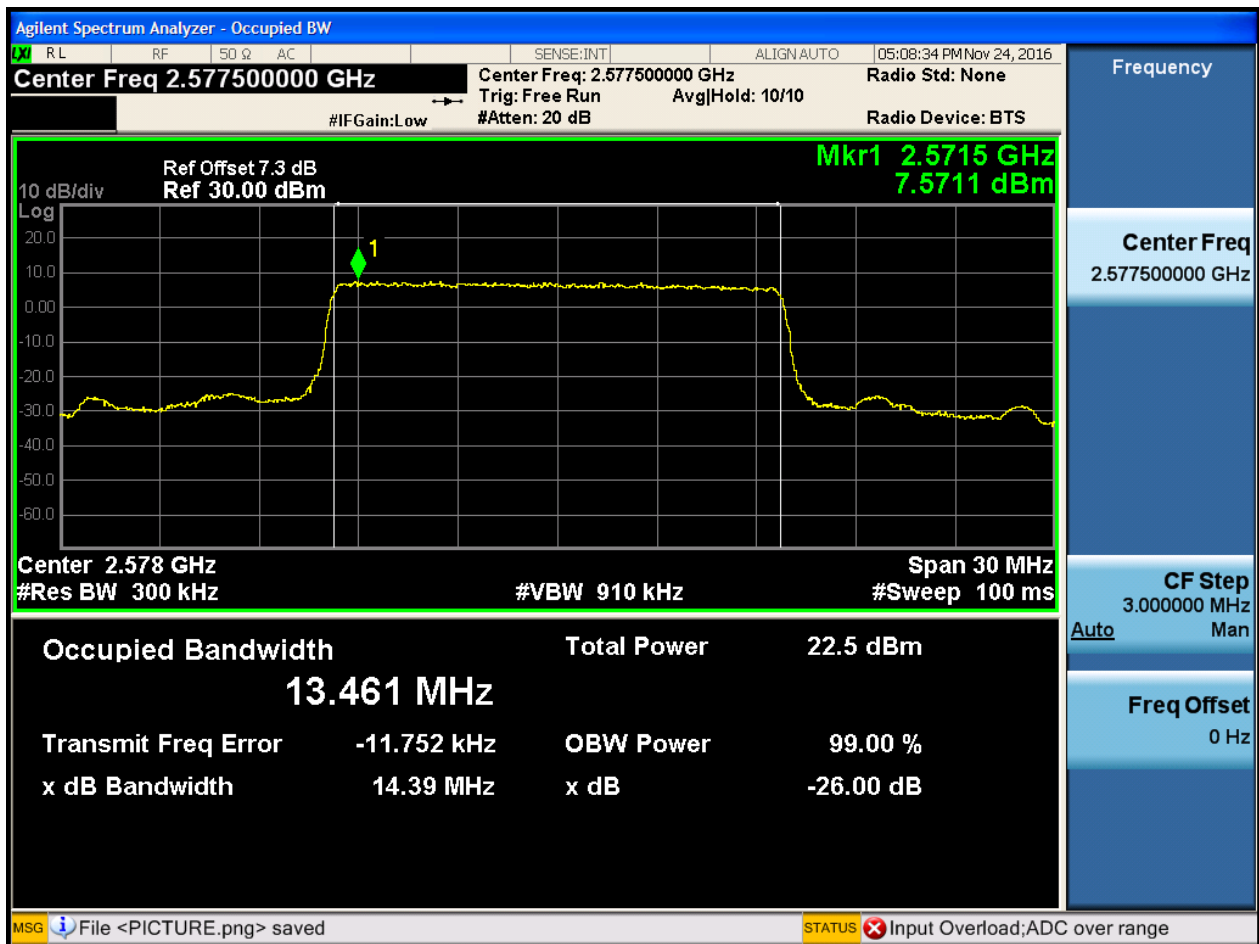




## 4.1.1.1.3 Test Bandwidth = 15

## 4.1.1.1.3.1 Test Channel = LCH

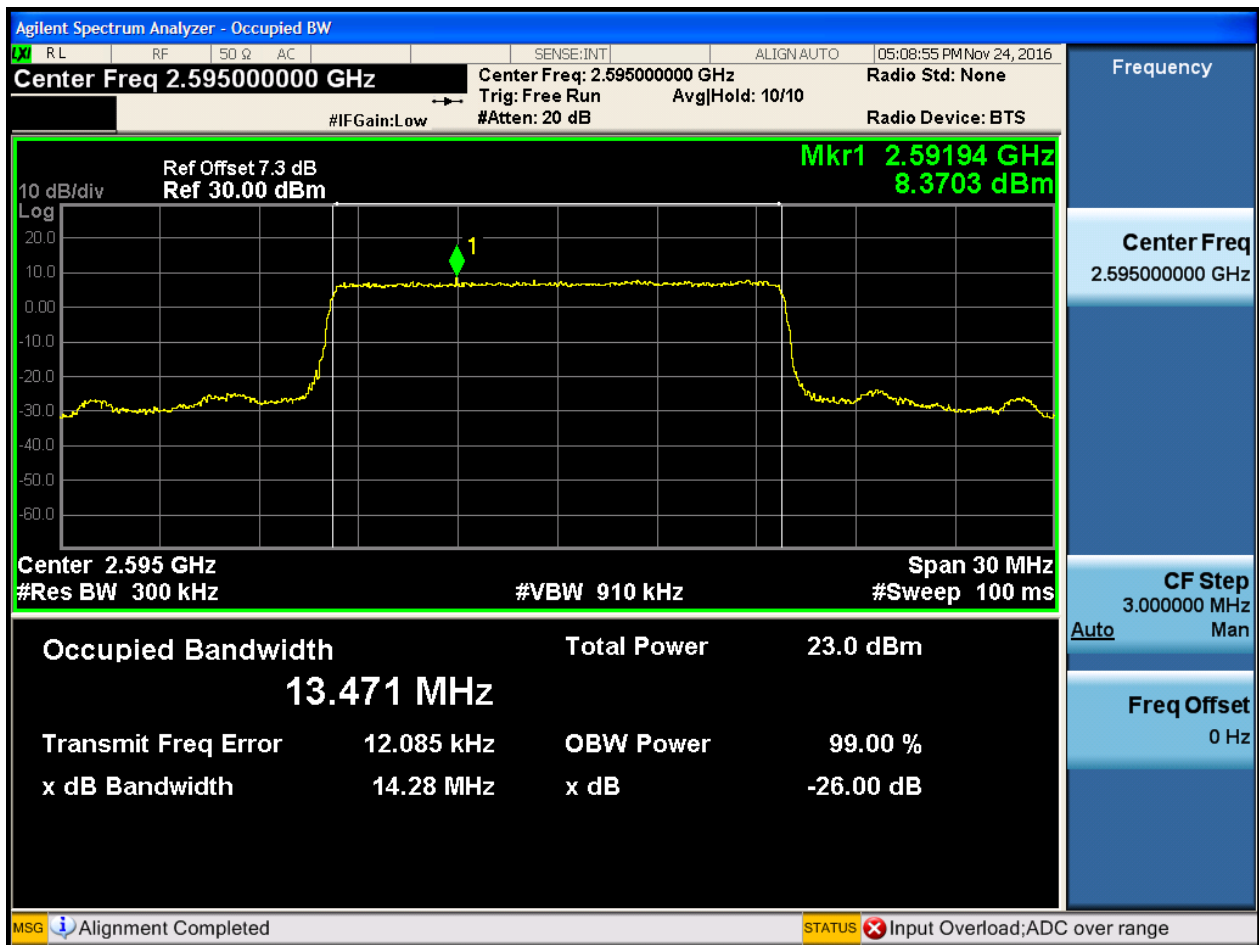
## 4.1.1.1.3.1.1 Test RB = RB75#0





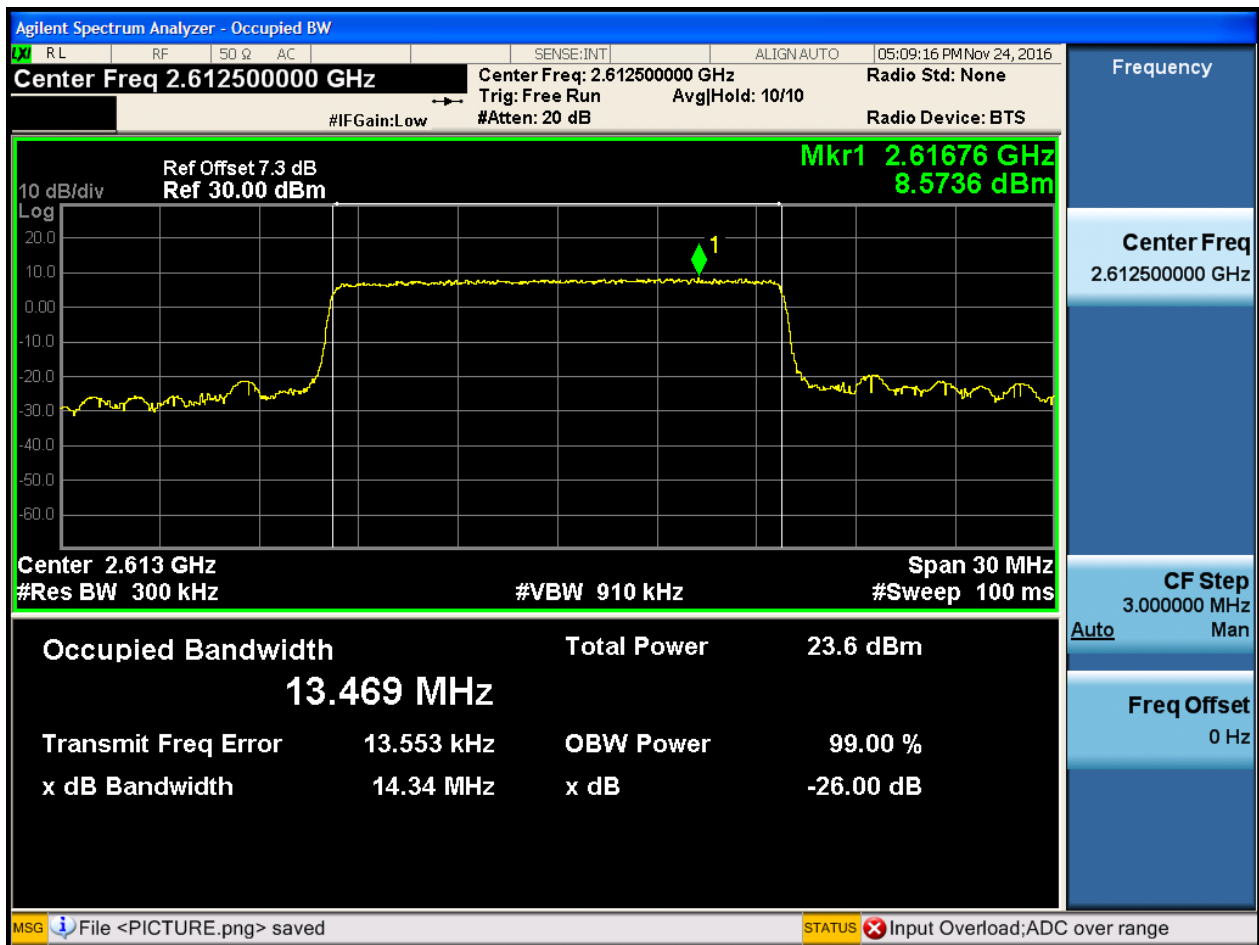
## 4.1.1.1.3.2 Test Channel = MCH

## 4.1.1.1.3.2.1 Test RB = RB75#0



#### 4.1.1.1.3.3 Test Channel = HCH

##### 4.1.1.1.3.3.1 Test RB = RB75#0

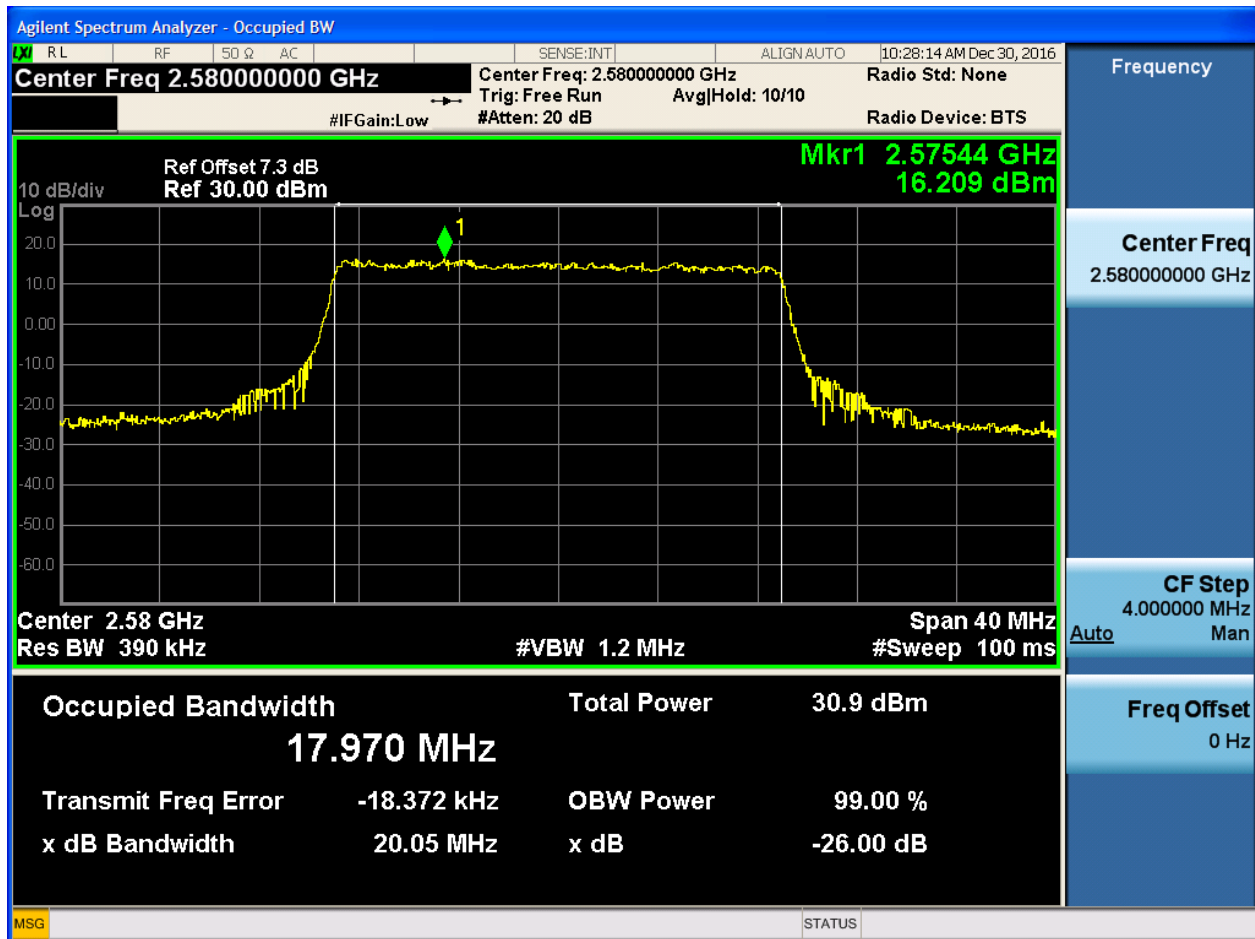




## 4.1.1.1.4 Test Bandwidth = 20

## 4.1.1.1.4.1 Test Channel = LCH

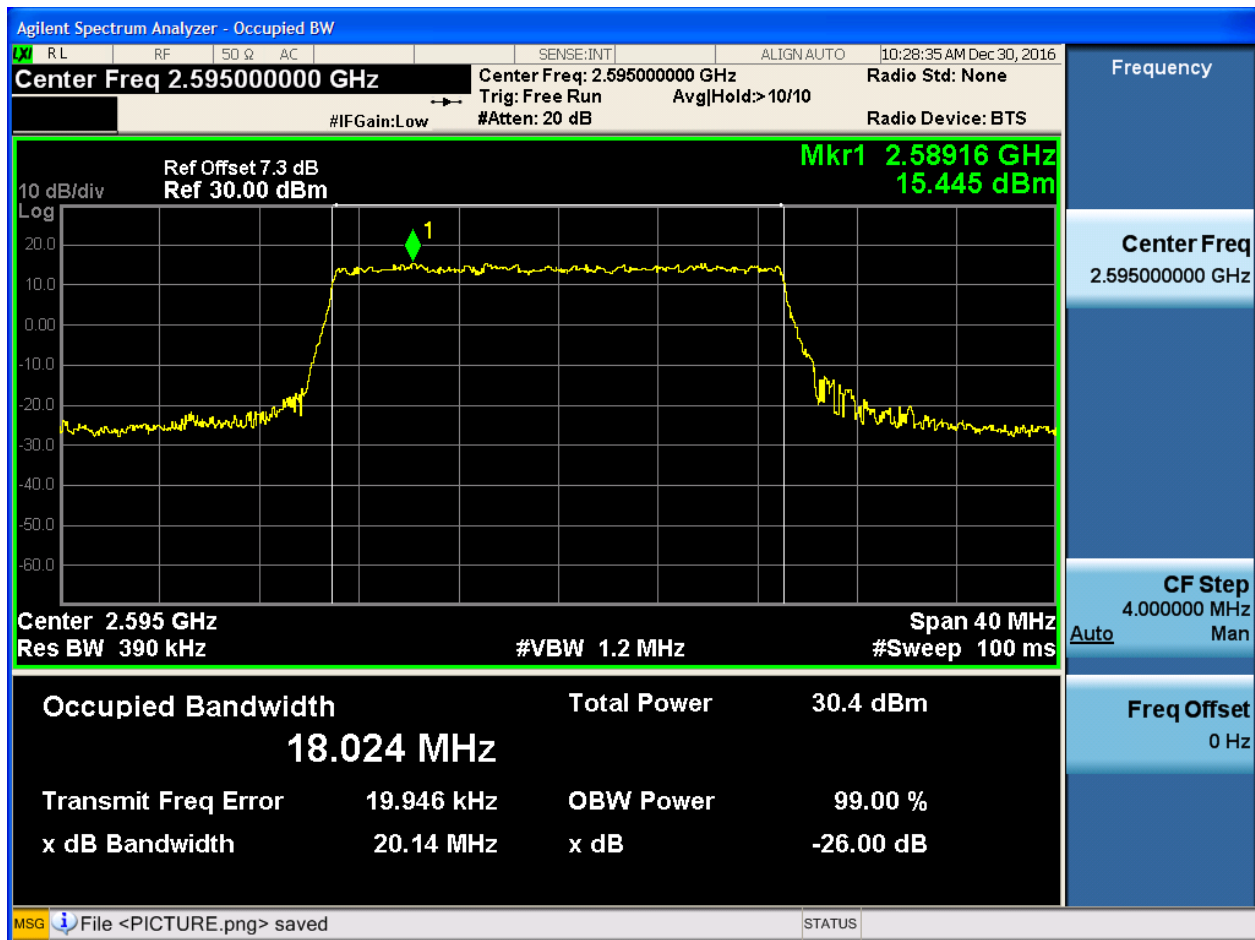
## 4.1.1.1.4.1.1 Test RB = RB100#0





## 4.1.1.1.4.2 Test Channel = MCH

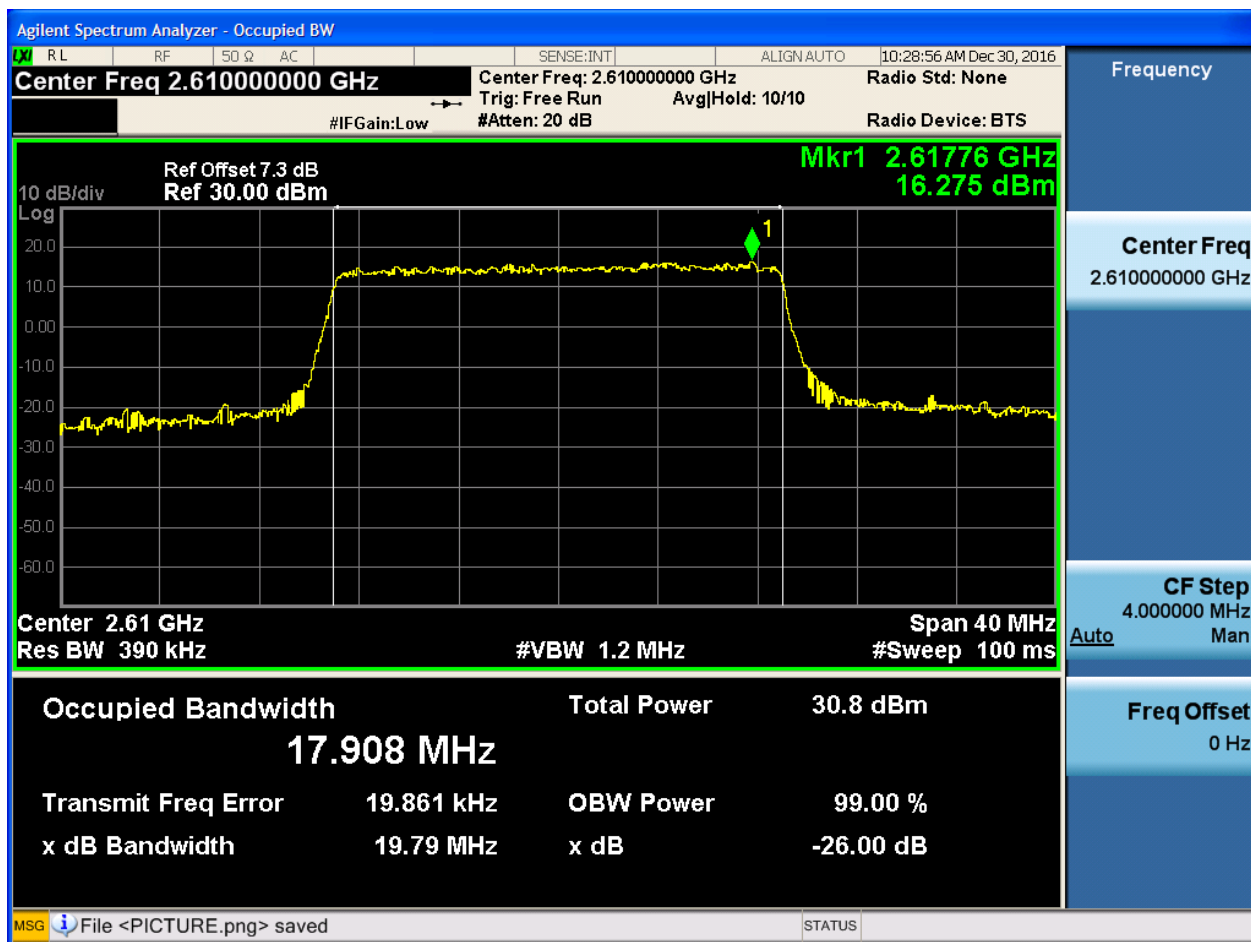
## 4.1.1.1.4.2.1 Test RB = RB100#0





## 4.1.1.1.4.3 Test Channel = HCH

## 4.1.1.1.4.3.1 Test RB = RB100#0



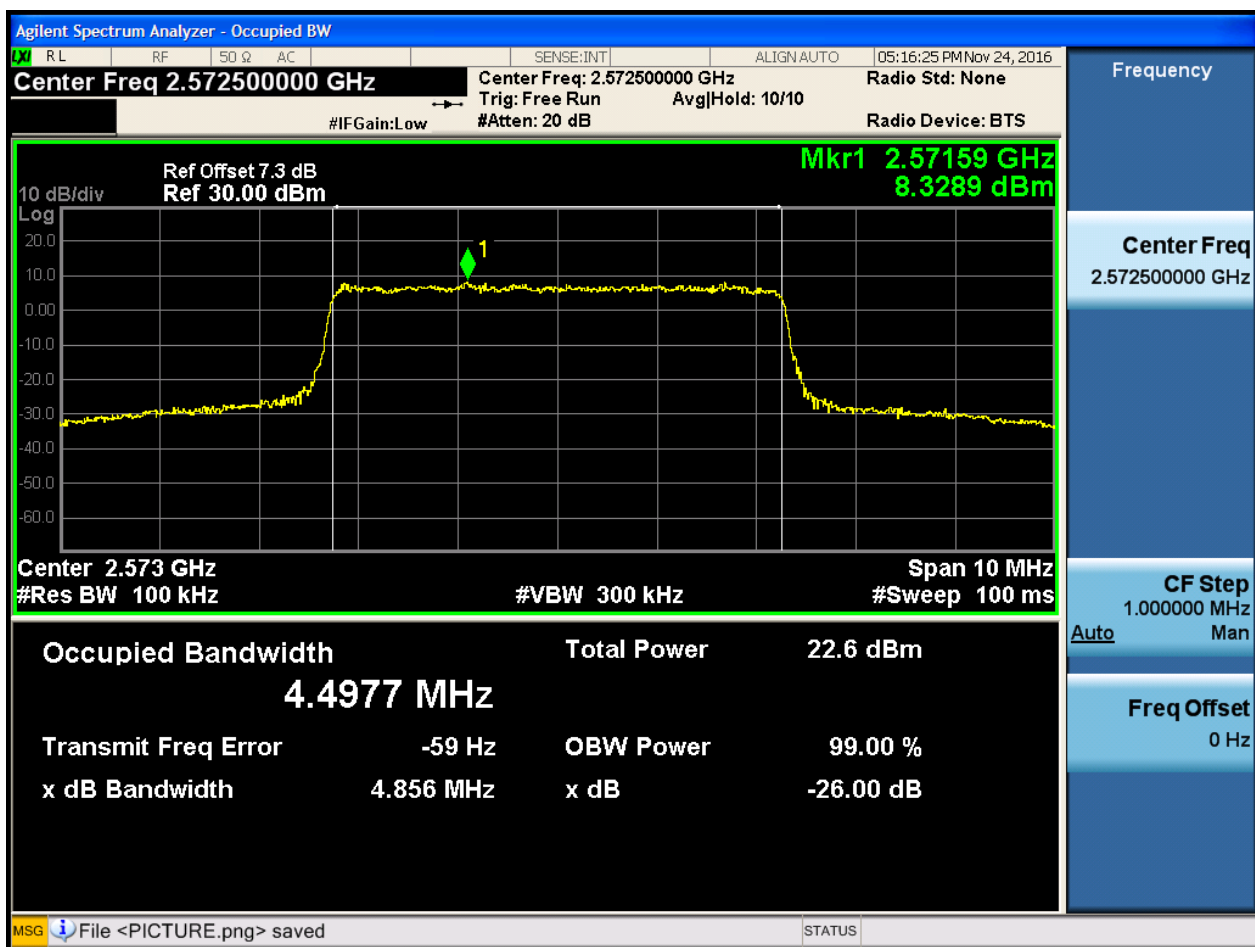


## 4.1.1.2 Test Mode = LTE/TM2

## 4.1.1.2.1 Test Bandwidth = 5

## 4.1.1.2.1.1 Test Channel = LCH

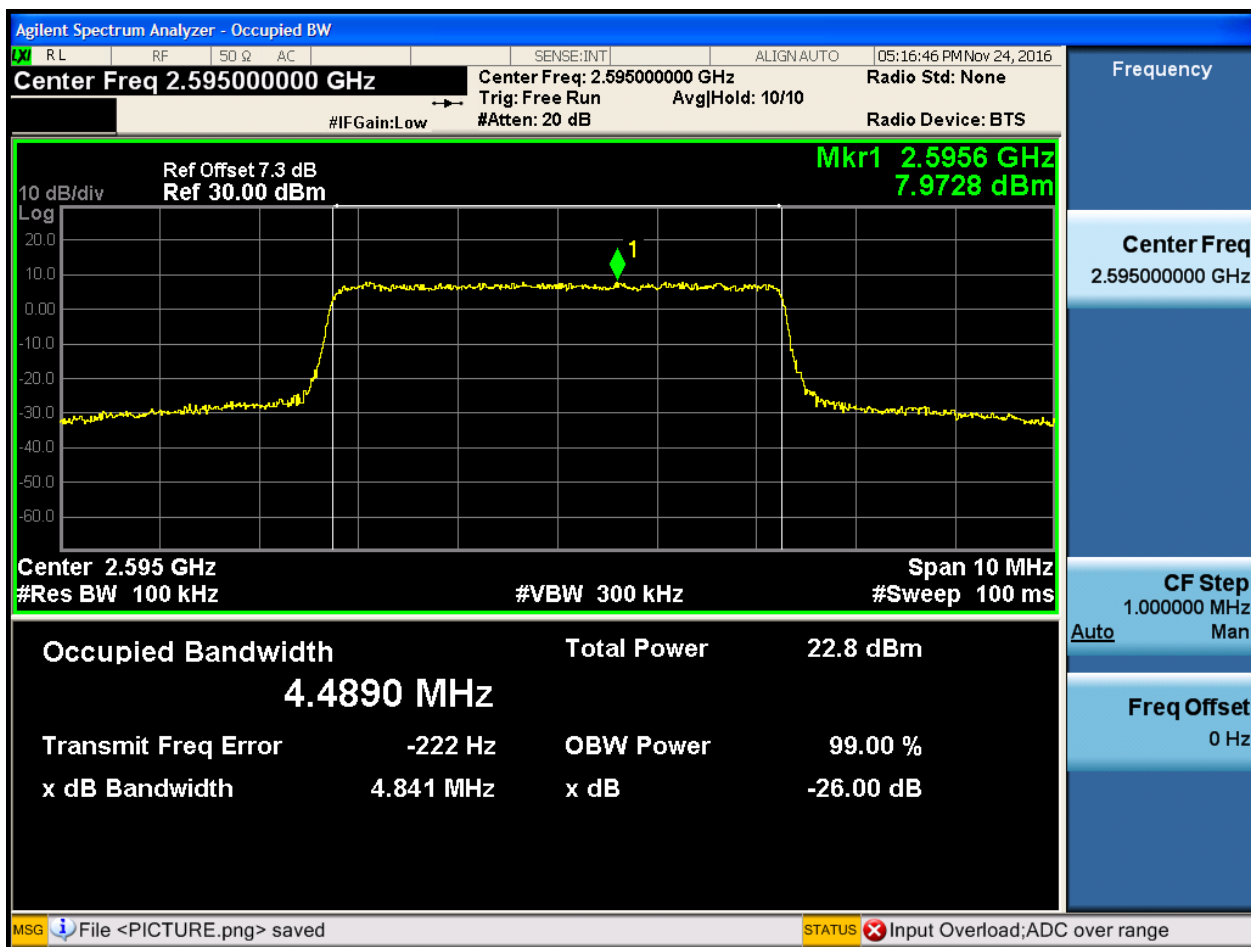
## 4.1.1.2.1.1.1 Test RB = RB25#0





## 4.1.1.2.1.2 Test Channel = MCH

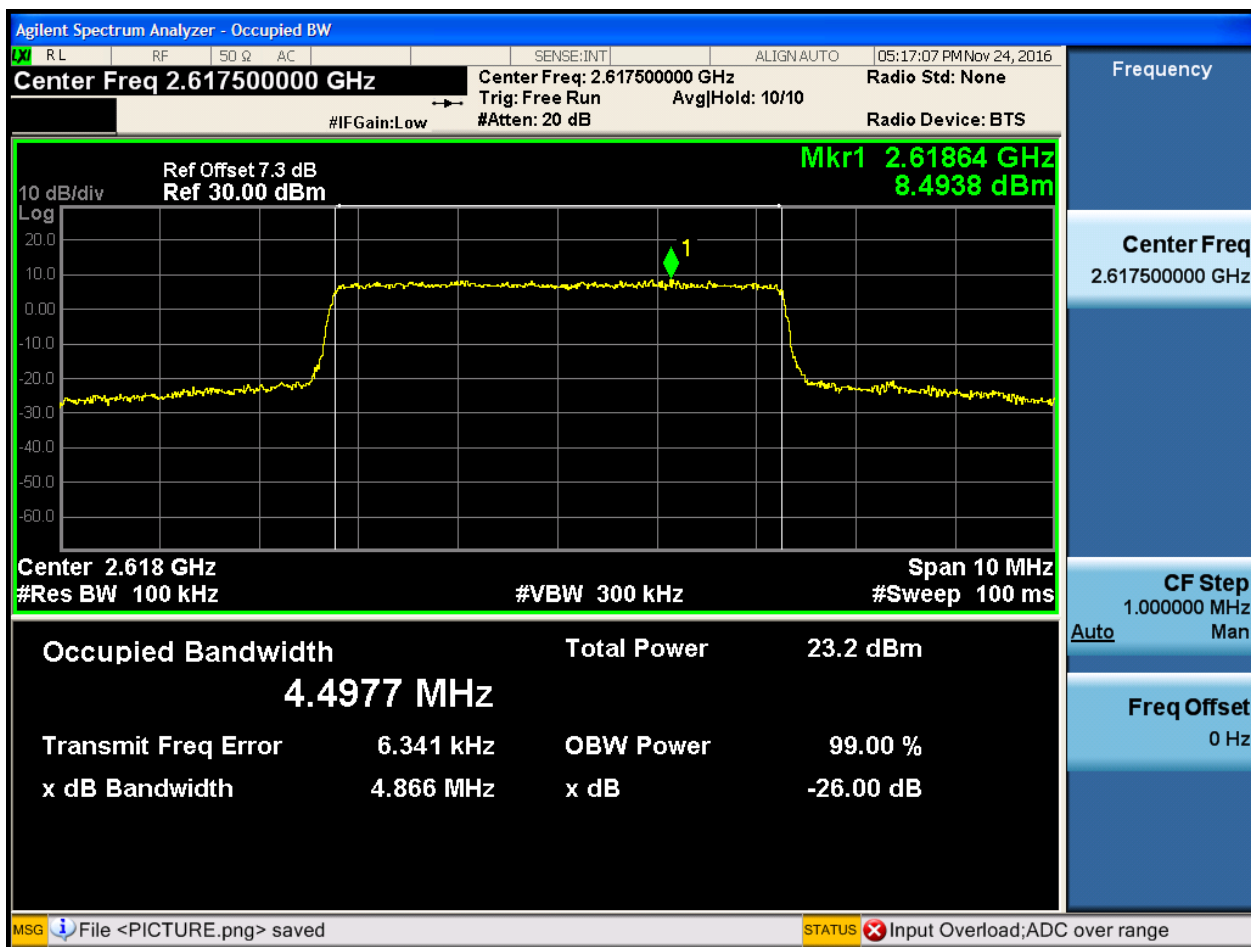
## 4.1.1.2.1.2.1 Test RB = RB25#0





## 4.1.1.2.1.3 Test Channel = HCH

## 4.1.1.2.1.3.1 Test RB = RB25#0

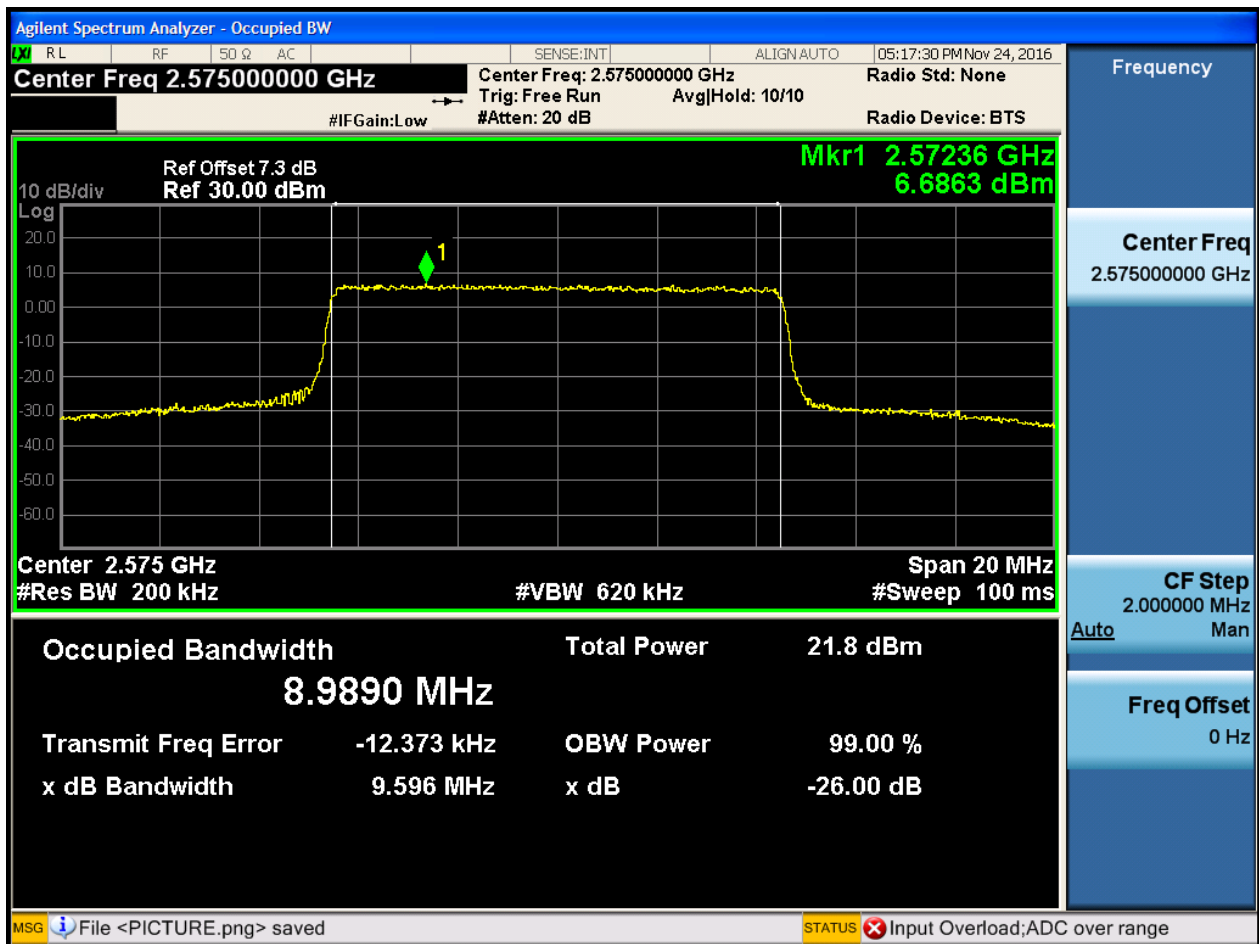




## 4.1.1.2.2 Test Bandwidth = 10

## 4.1.1.2.2.1 Test Channel = LCH

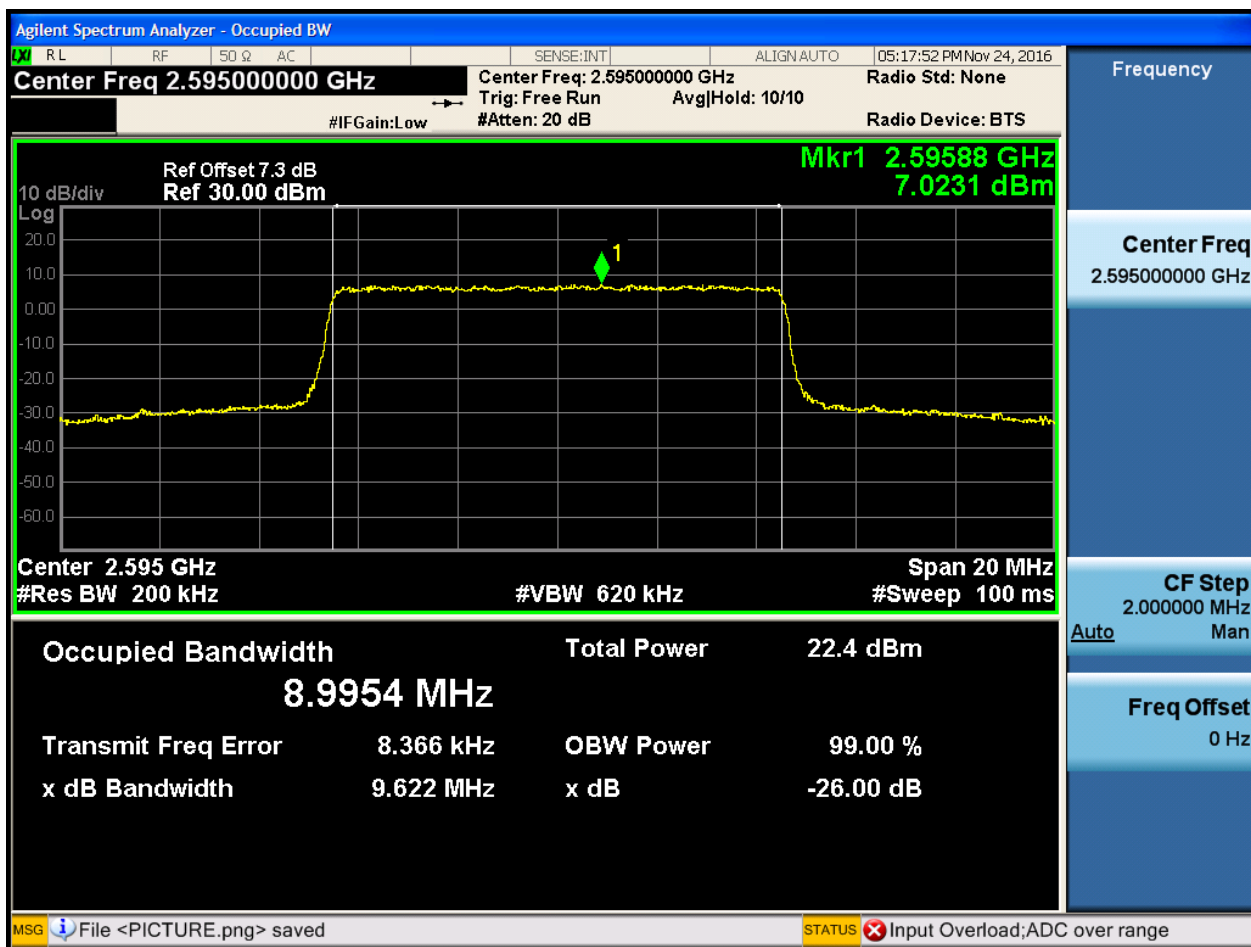
## 4.1.1.2.2.1.1 Test RB = RB50#0





## 4.1.1.2.2.2 Test Channel = MCH

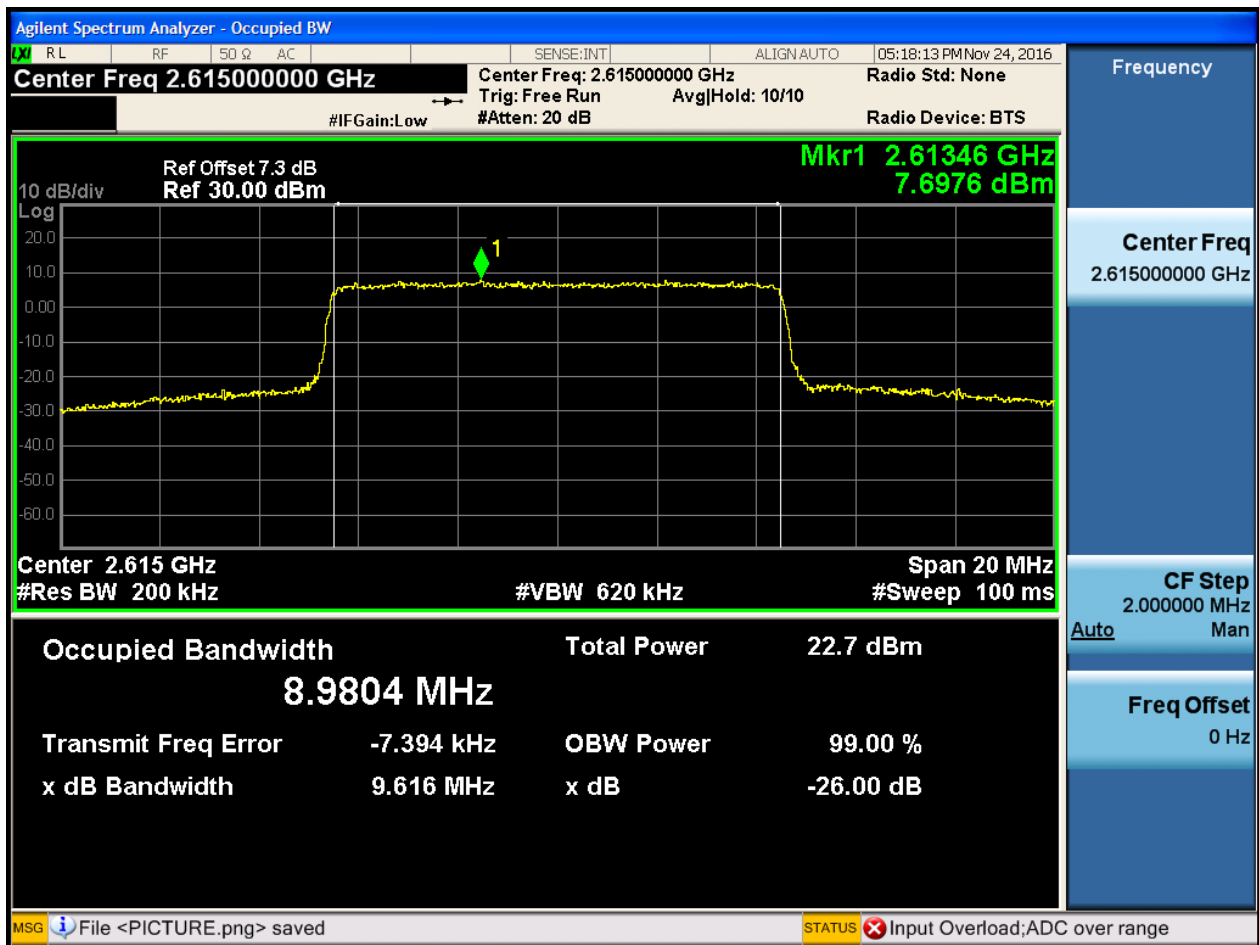
## 4.1.1.2.2.2.1 Test RB = RB50#0





## 4.1.1.2.2.3 Test Channel = HCH

## 4.1.1.2.2.3.1 Test RB = RB50#0

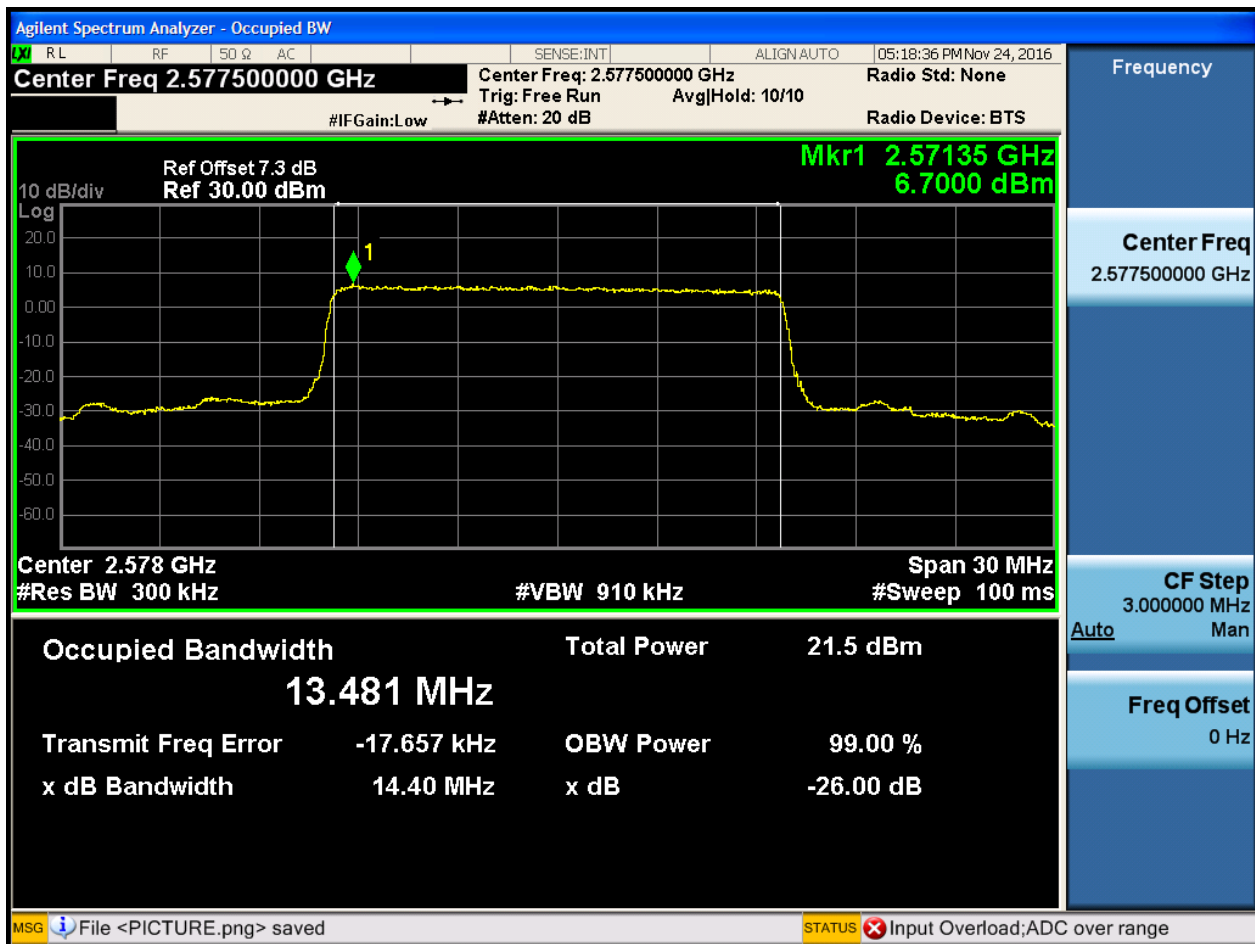




## 4.1.1.2.3 Test Bandwidth = 15

## 4.1.1.2.3.1 Test Channel = LCH

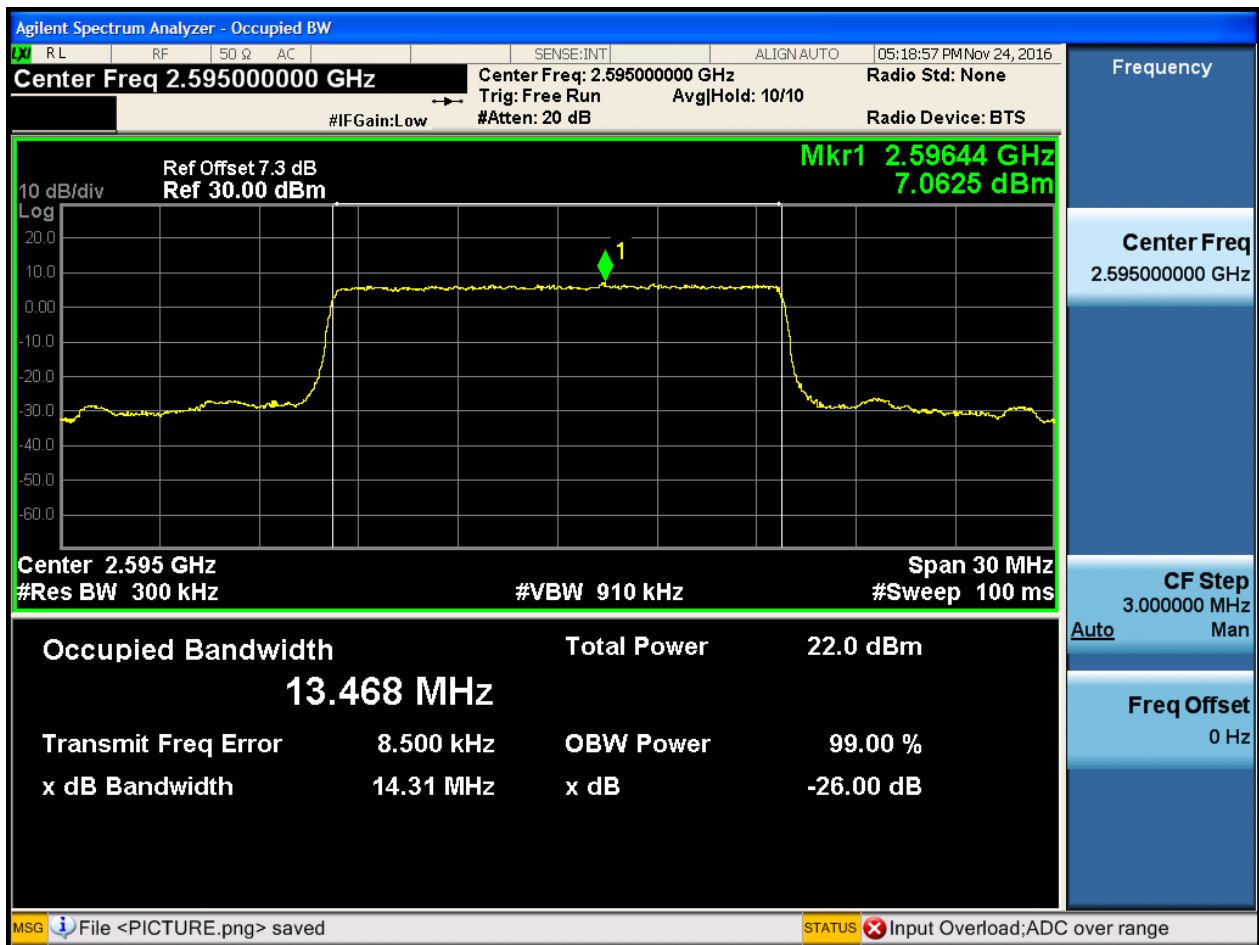
## 4.1.1.2.3.1.1 Test RB = RB75#0





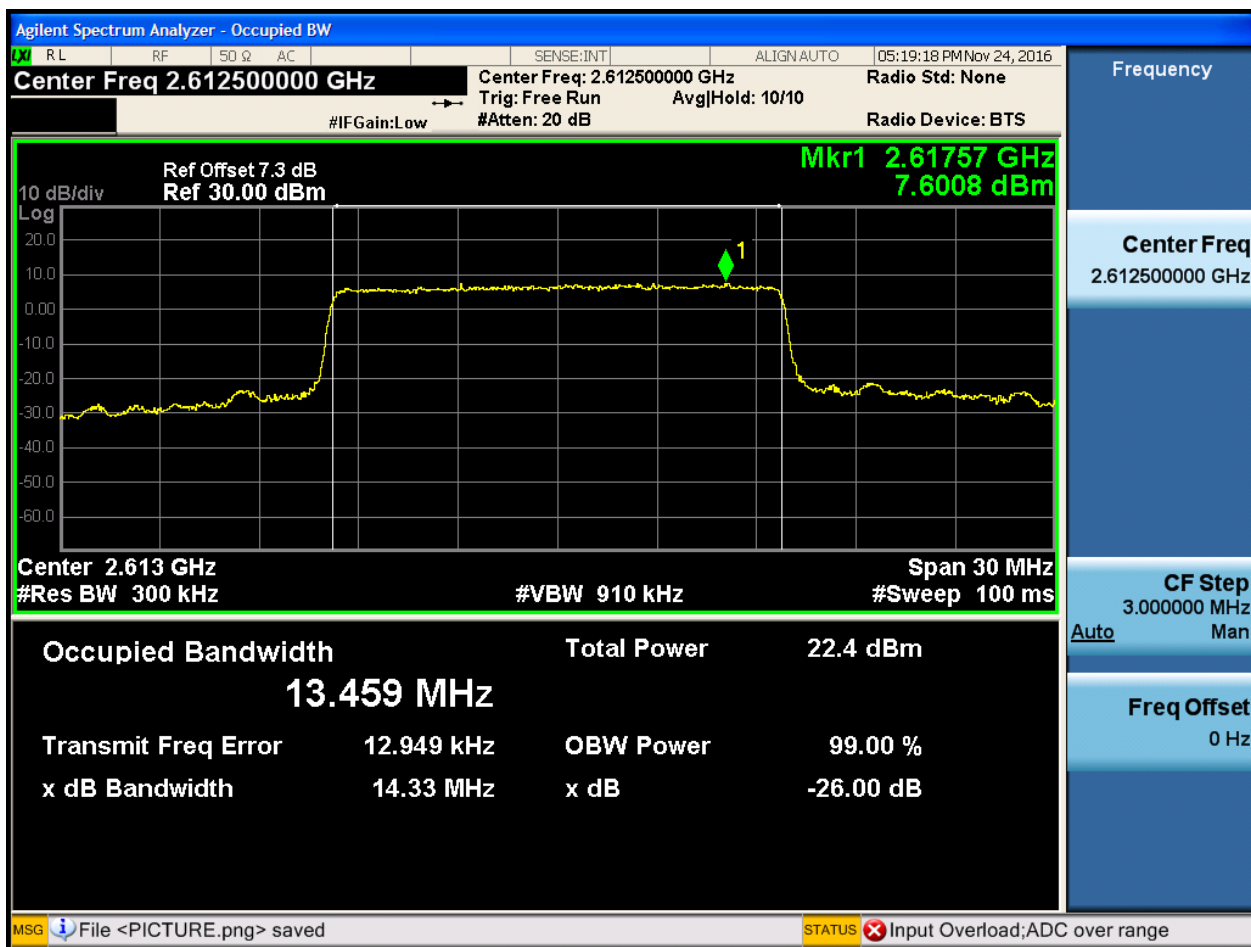
## 4.1.1.2.3.2 Test Channel = MCH

## 4.1.1.2.3.2.1 Test RB = RB75#0



#### 4.1.1.2.3.3 Test Channel = HCH

##### 4.1.1.2.3.3.1 Test RB = RB75#0

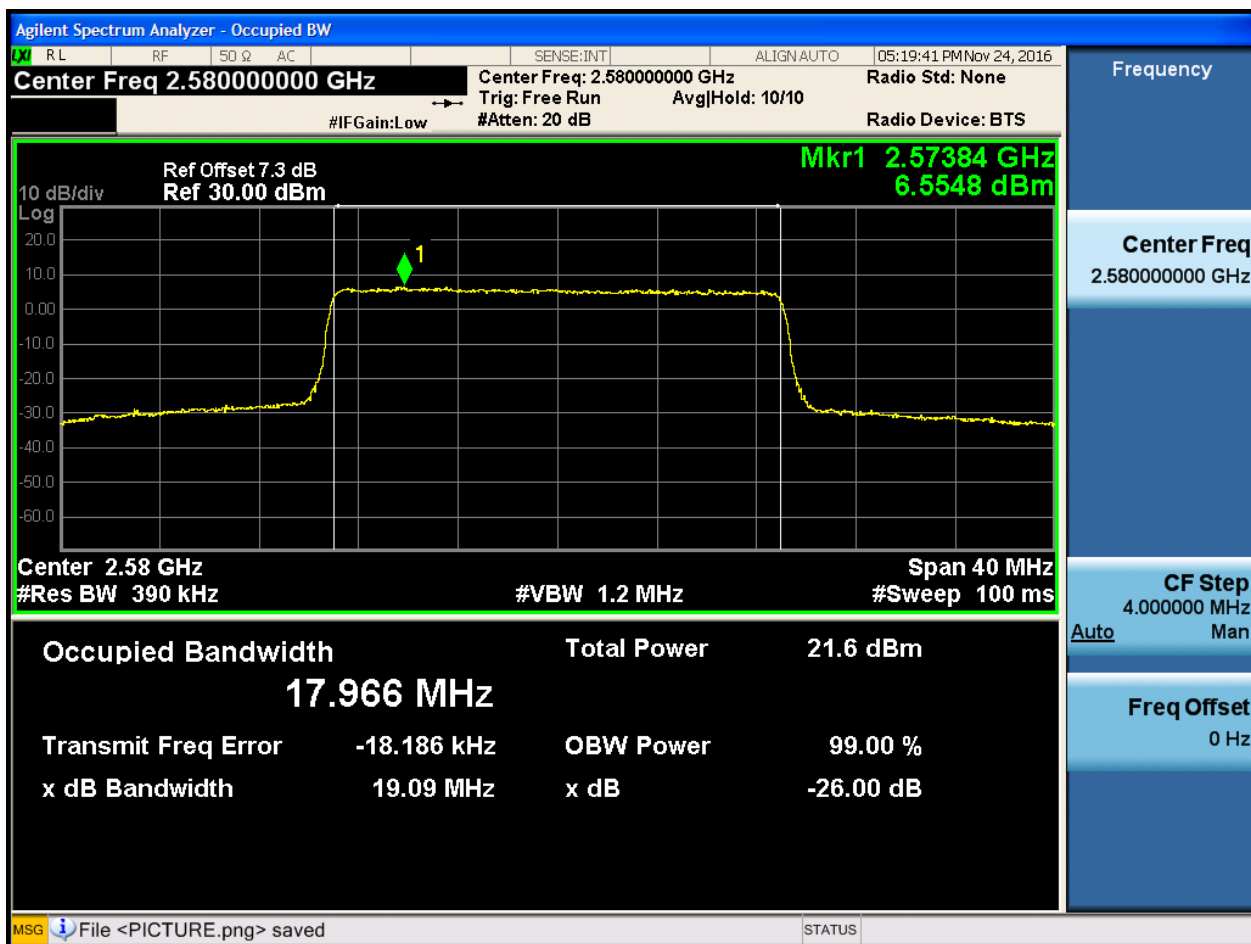




## 4.1.1.2.4 Test Bandwidth = 20

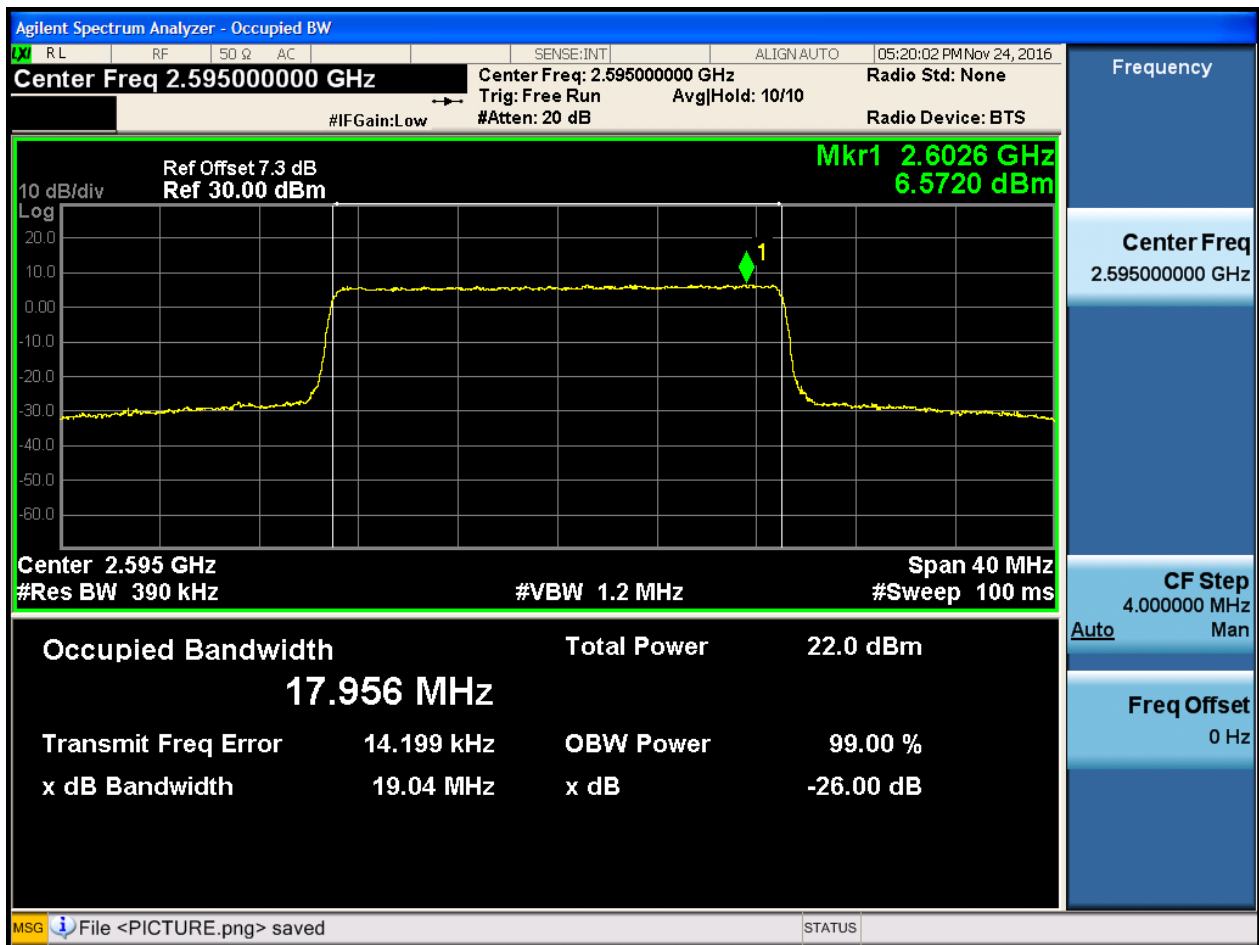
## 4.1.1.2.4.1 Test Channel = LCH

## 4.1.1.2.4.1.1 Test RB = RB100#0



#### 4.1.1.2.4.2 Test Channel = MCH

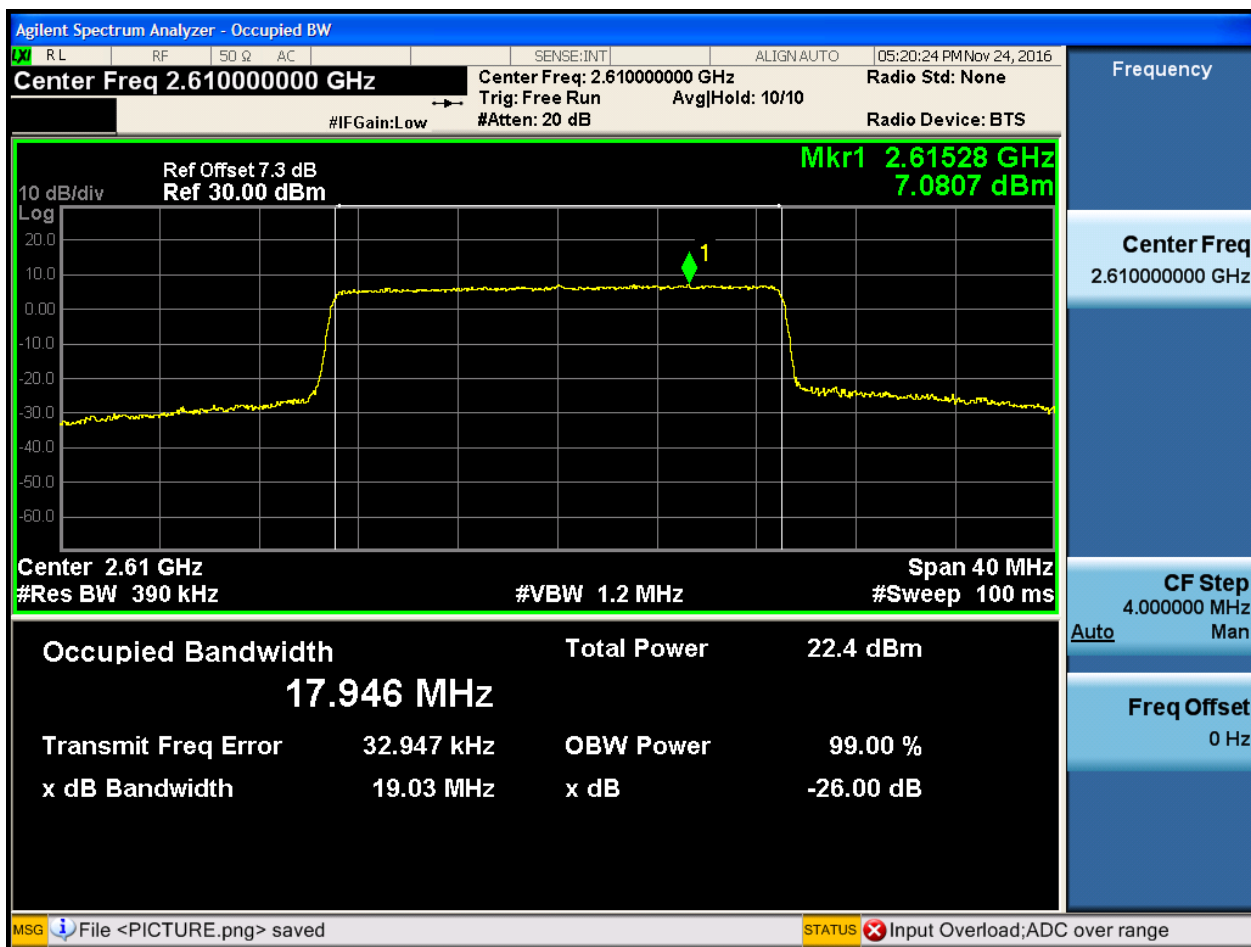
##### 4.1.1.2.4.2.1 Test RB = RB100#0





## 4.1.1.2.4.3 Test Channel = HCH

## 4.1.1.2.4.3.1 Test RB = RB100#0



## 5Appendix\_E: Band Edges Compliance

### Part I - Test Plots

#### 5.1 For LTE

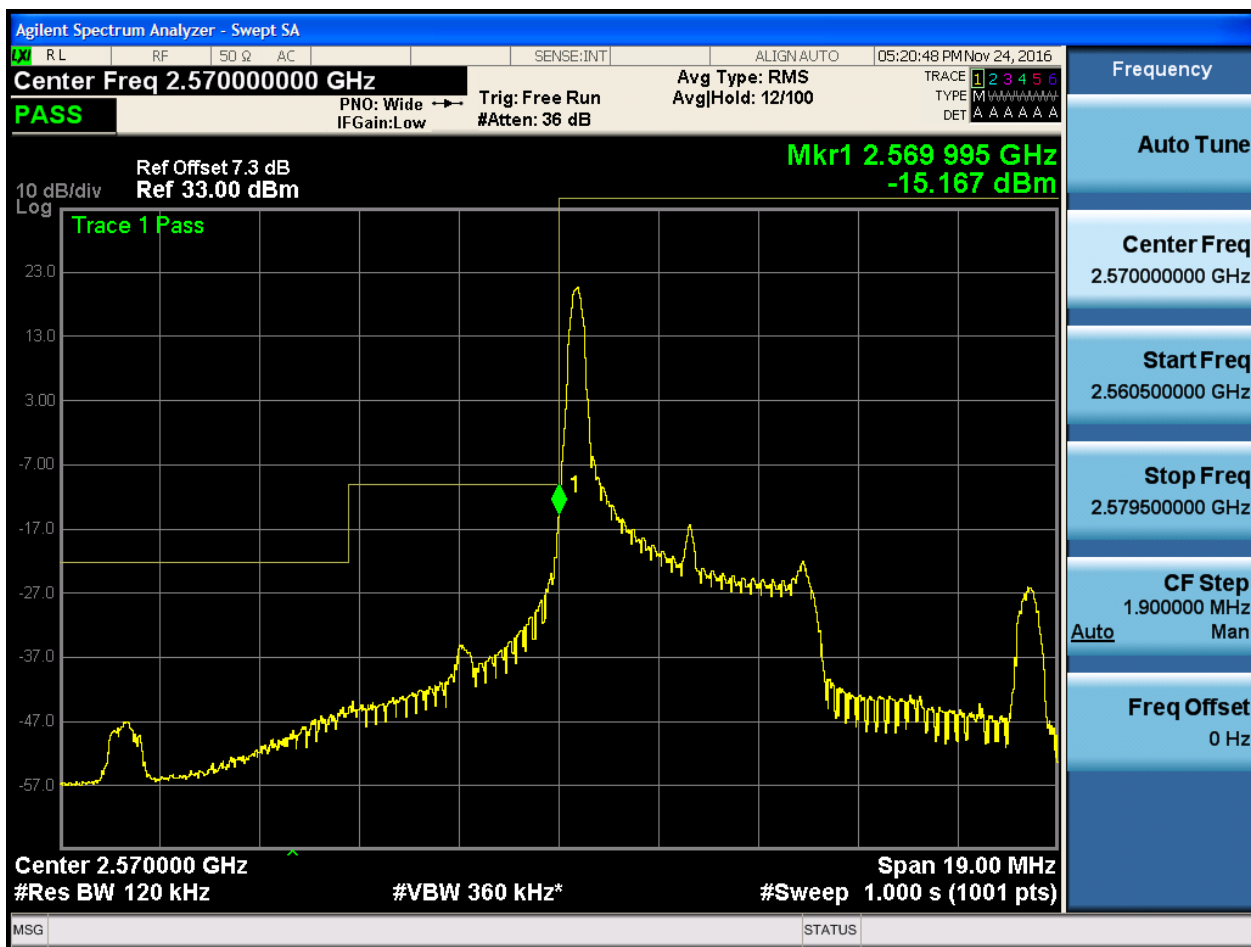
##### 5.1.1 Test Band = BAND38

##### 5.1.1.1 Test Mode = LTE/TM1

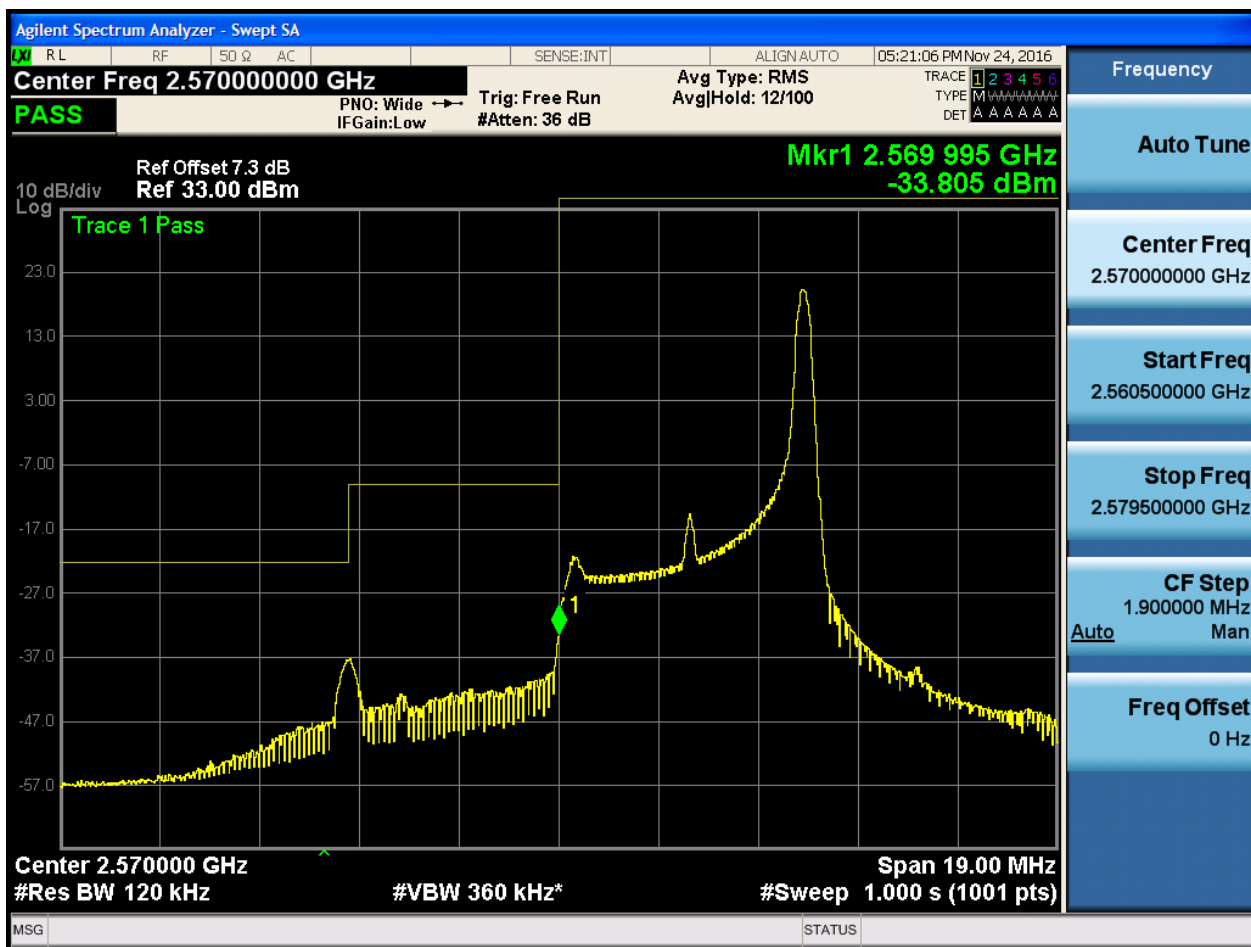
##### 5.1.1.1.1 Test Bandwidth = 5

##### 5.1.1.1.1.1 Test Channel = LCH

##### 5.1.1.1.1.1.1 Test RB = RB1#0

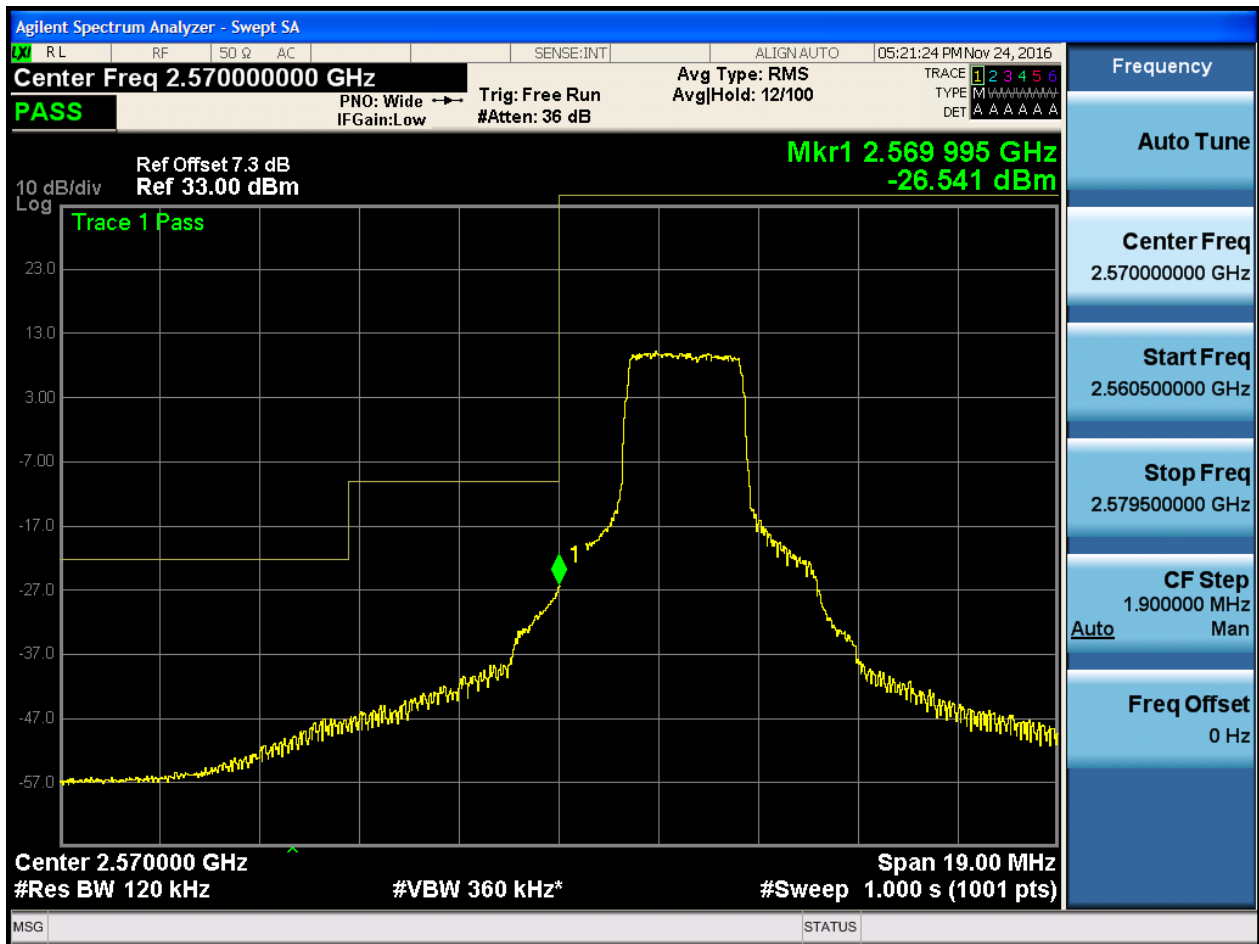


#### 5.1.1.1.1.1.2 Test RB = RB1#24





## 5.1.1.1.1.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 05:21:43 PM Nov 24, 2016

Center Freq 2.570000000 GHz Avg Type: RMS  
#Res BW 120 kHz PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100  
PASS #Atten: 36 dB

TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W  
DET A A A A A A

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.569 995 GHz  
-22.967 dBm

10 dB/div  
Log

Trace 1 Pass

Center 2.570000 GHz  
#Res BW 120 kHz  
#VBW 360 kHz\*  
Span 19.00 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
2.570000000 GHz

Start Freq  
2.560500000 GHz

Stop Freq  
2.579500000 GHz

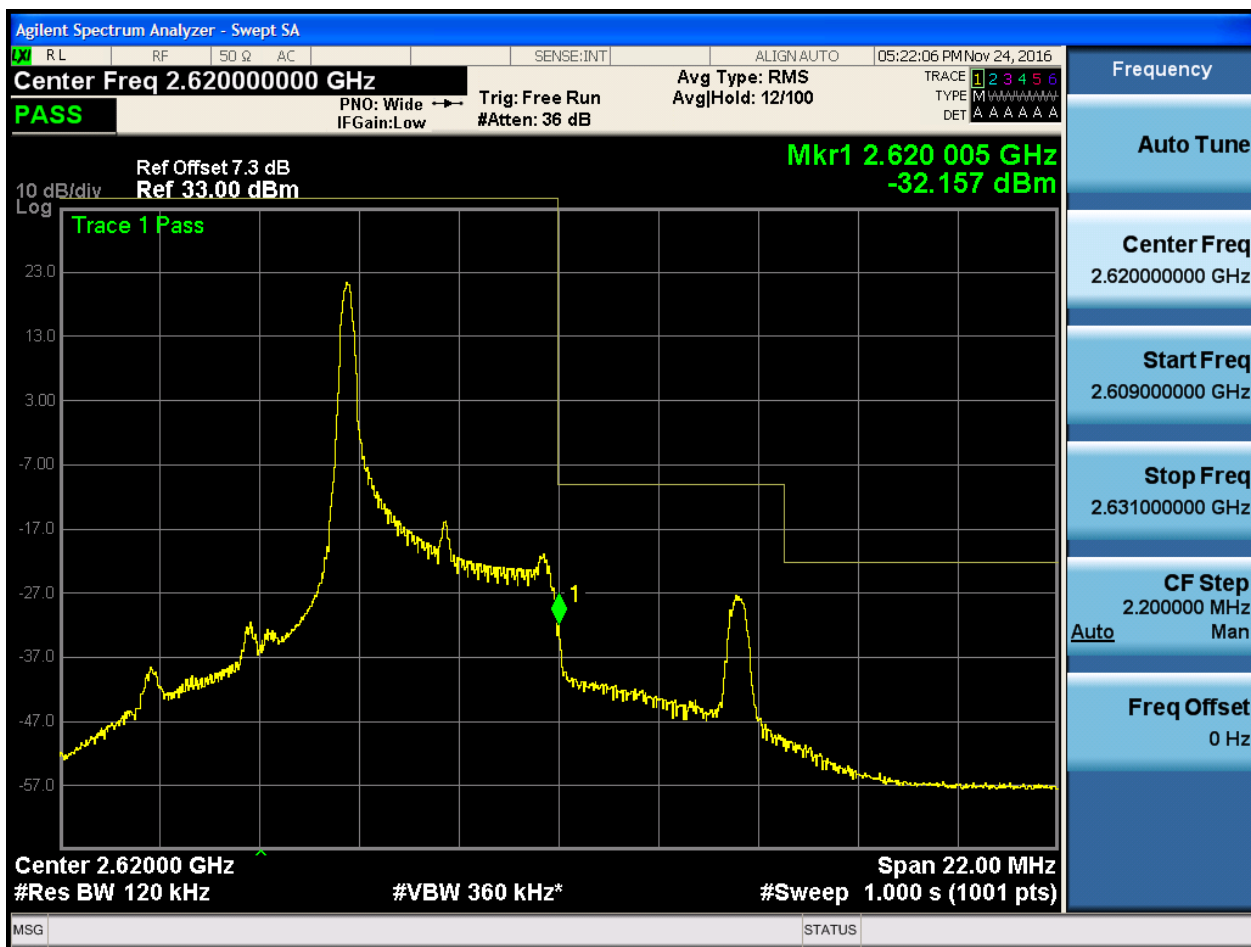
CF Step  
1.900000 MHz  
Auto Man

Freq Offset  
0 Hz



## 5.1.1.1.1.2 Test Channel = HCH

## 5.1.1.1.1.2.1 Test RB = RB1#0





## 5.1.1.1.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN: AUTO 05:22:43 PM Nov 24, 2016

Center Freq 2.620000000 GHz Avg Type: RMS  
PASS PNO: Wide IF Gain: Low Trig: Free Run Avg/Hold: 12/100  
TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W W W  
DET A A A A A A A

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.620 005 GHz  
-23.527 dBm

10 dB/div  
Log

Trace 1 Pass

Center Freq 2.620000000 GHz  
Start Freq 2.609000000 GHz  
Stop Freq 2.631000000 GHz  
CF Step 2.200000 MHz Man  
Auto  
Freq Offset 0 Hz

Center 2.62000 GHz  
#Res BW 120 kHz  
#VBW 360 kHz  
Span 22.00 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

#### 5.1.1.1.1.2.4 Test RB = RB25#0

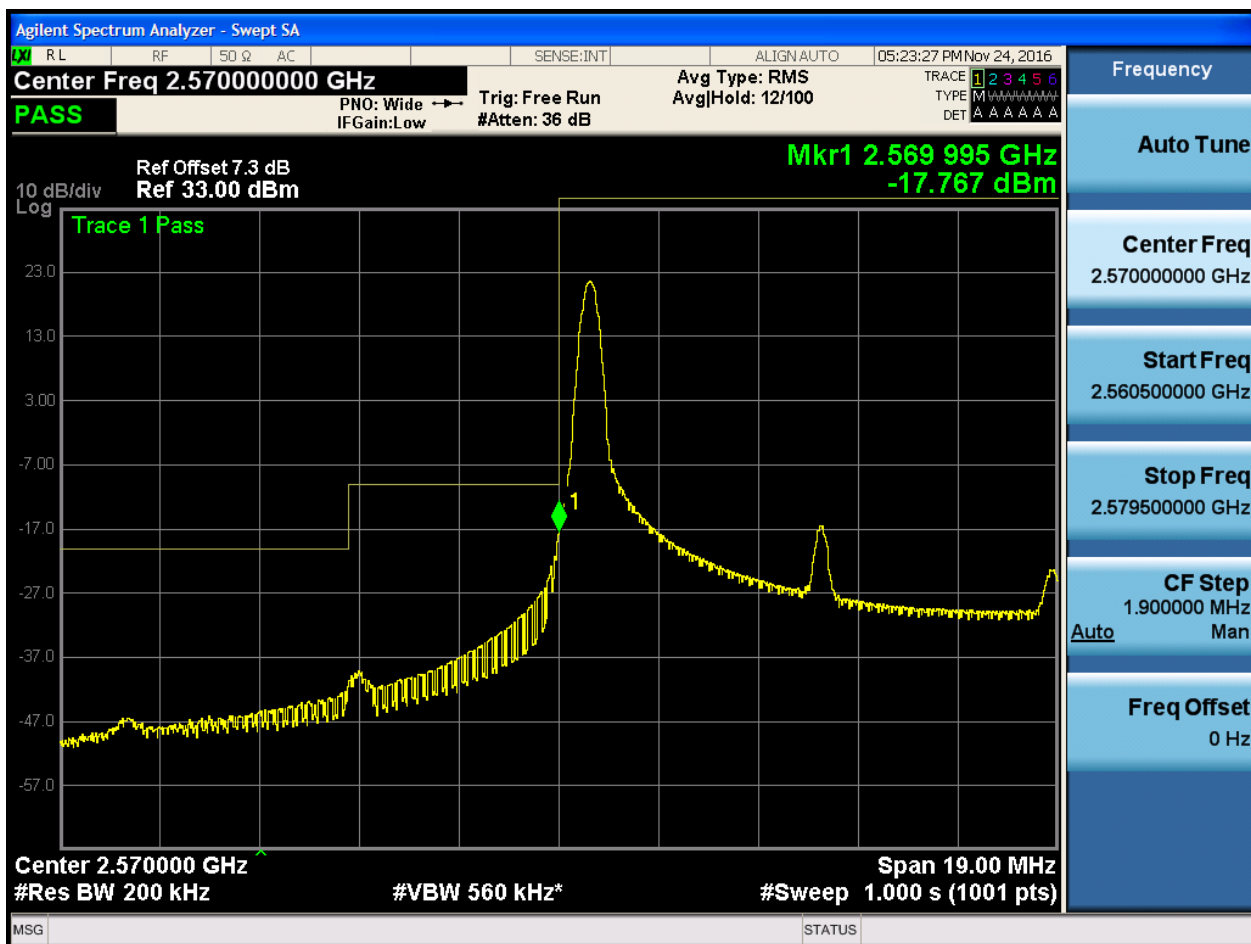




## 5.1.1.1.2 Test Bandwidth = 10

## 5.1.1.1.2.1 Test Channel = LCH

## 5.1.1.1.2.1.1 Test RB = RB1#0

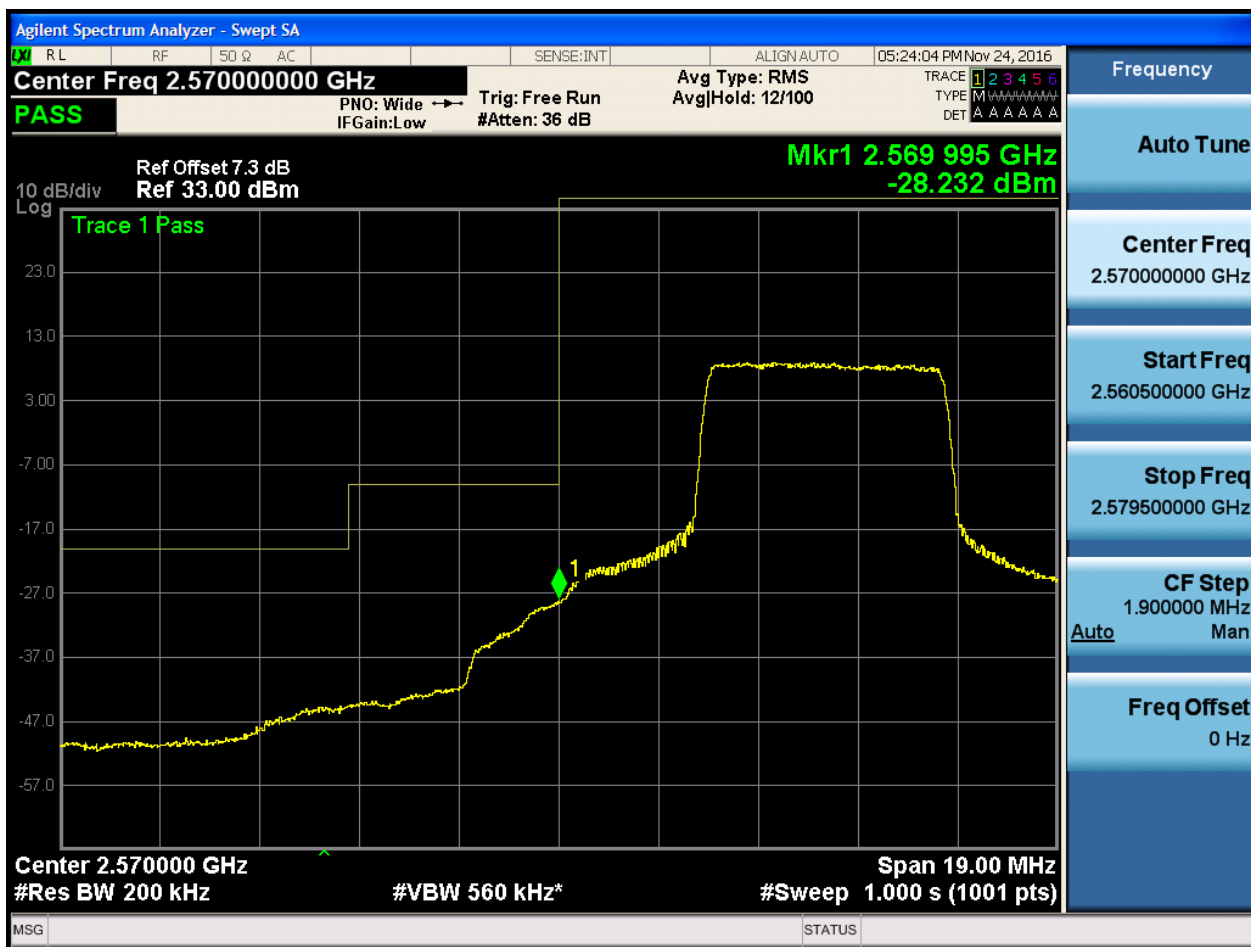




## 5.1.1.1.2.1.2 Test RB = RB1#49



#### 5.1.1.1.2.1.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 05:24:23 PM Nov 24, 2016

Center Freq 2.570000000 GHz Avg Type: RMS  
#Res BW 200 kHz #VBW 560 kHz\* #Sweep 1.000 s (1001 pts)

PASS PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB

TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W  
DET A A A A A A

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.569 995 GHz  
-26.467 dBm

10 dB/div  
Log

Trace 1 Pass

Center 2.570000 GHz Span 19.00 MHz

MSG STATUS

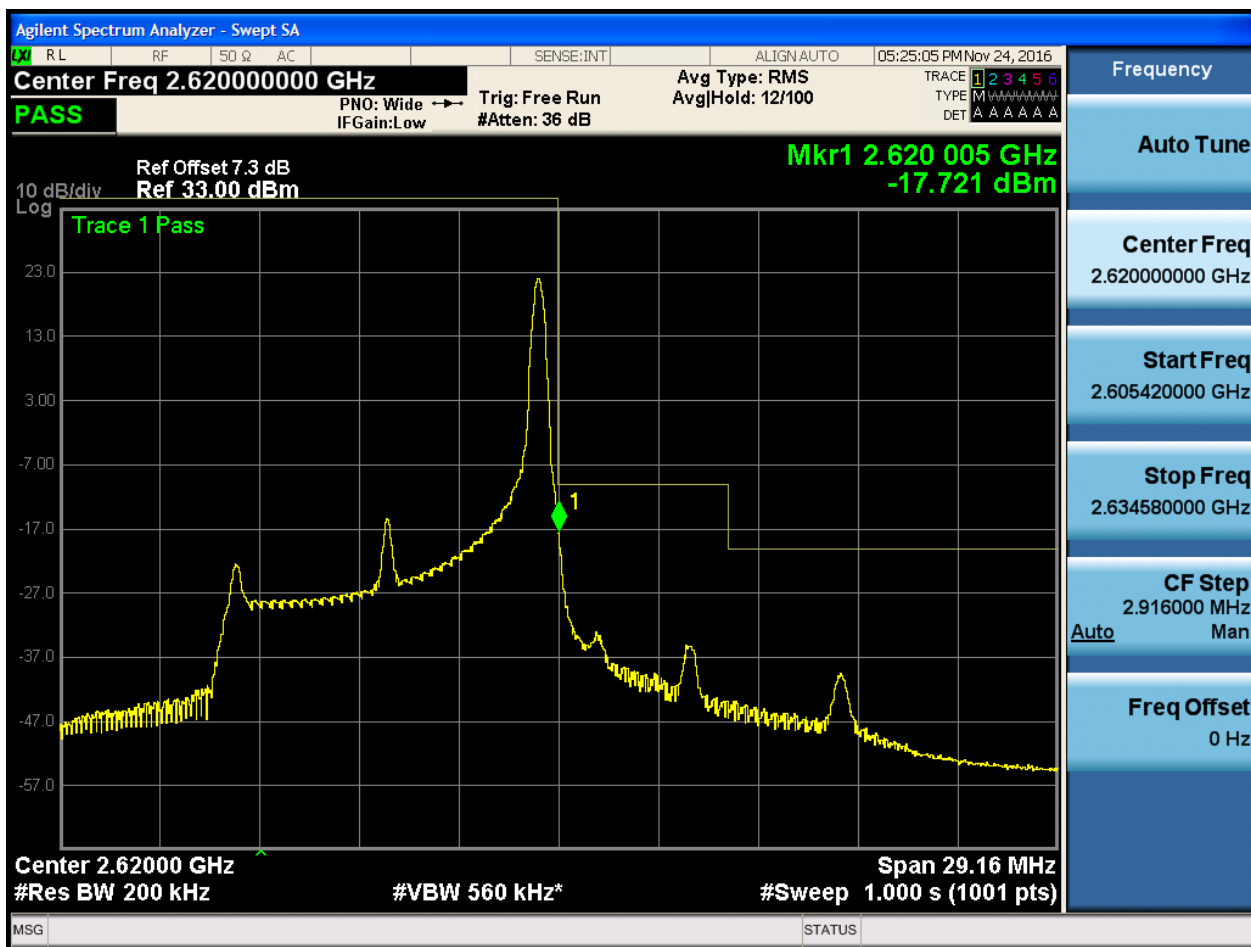


## 5.1.1.1.2.2 Test Channel = HCH

## 5.1.1.1.2.2.1 Test RB = RB1#0



#### 5.1.1.1.2.2.2 Test RB = RB1#49





## 5.1.1.1.2.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 05:25:42 PM Nov 24, 2016

Center Freq 2.620000000 GHz Avg Type: RMS  
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100  
#Atten: 36 dB

TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W  
DET A A A A A A

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.620 005 GHz  
-24.087 dBm

10 dB/div  
Log

Trace 1 Pass

Center 2.62000 GHz  
#Res BW 200 kHz  
#VBW 560 kHz\*  
Span 29.16 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
2.620000000 GHz

Start Freq  
2.605420000 GHz

Stop Freq  
2.634580000 GHz

CF Step  
2.916000 MHz  
Auto Man

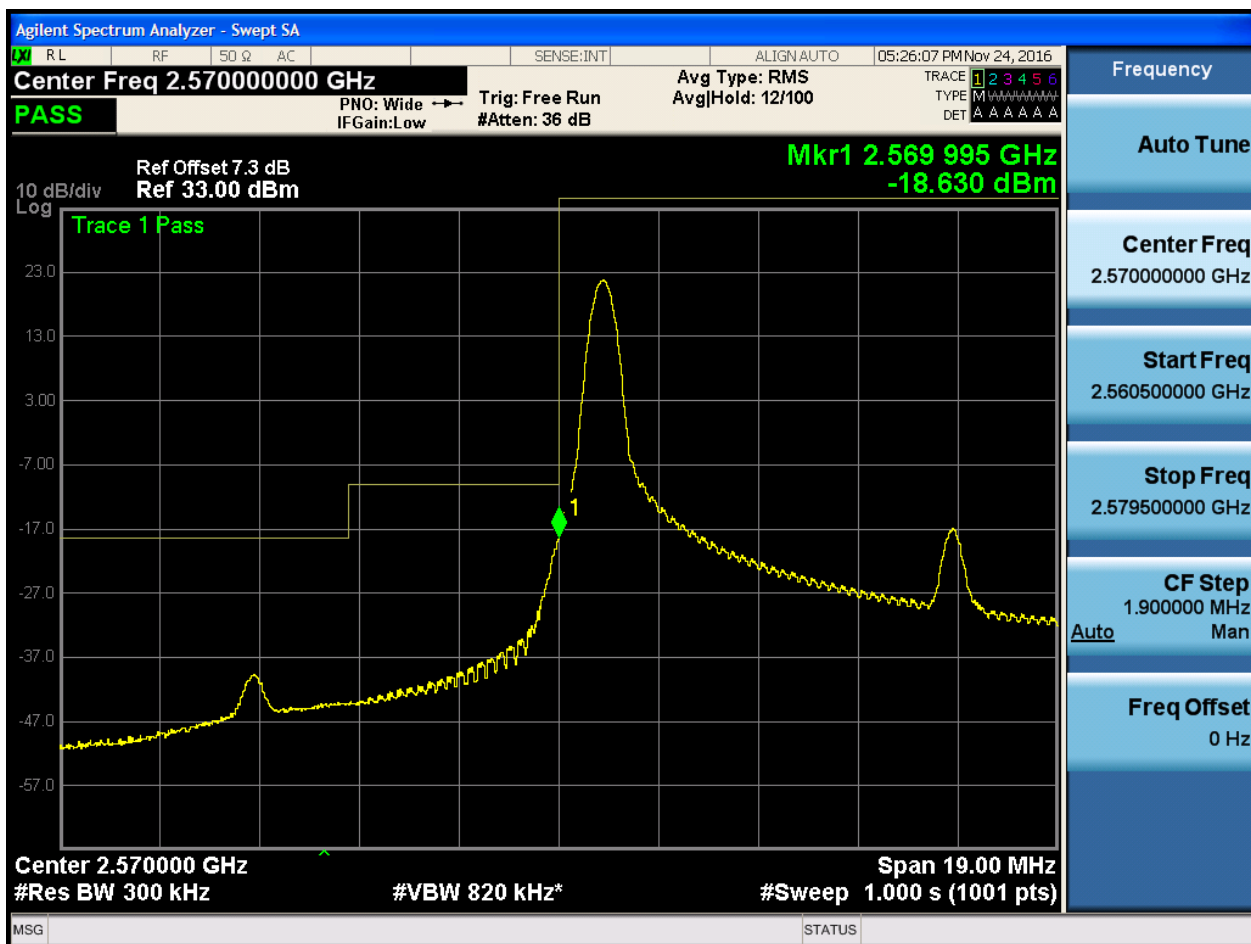
Freq Offset  
0 Hz



## 5.1.1.1.3 Test Bandwidth = 15

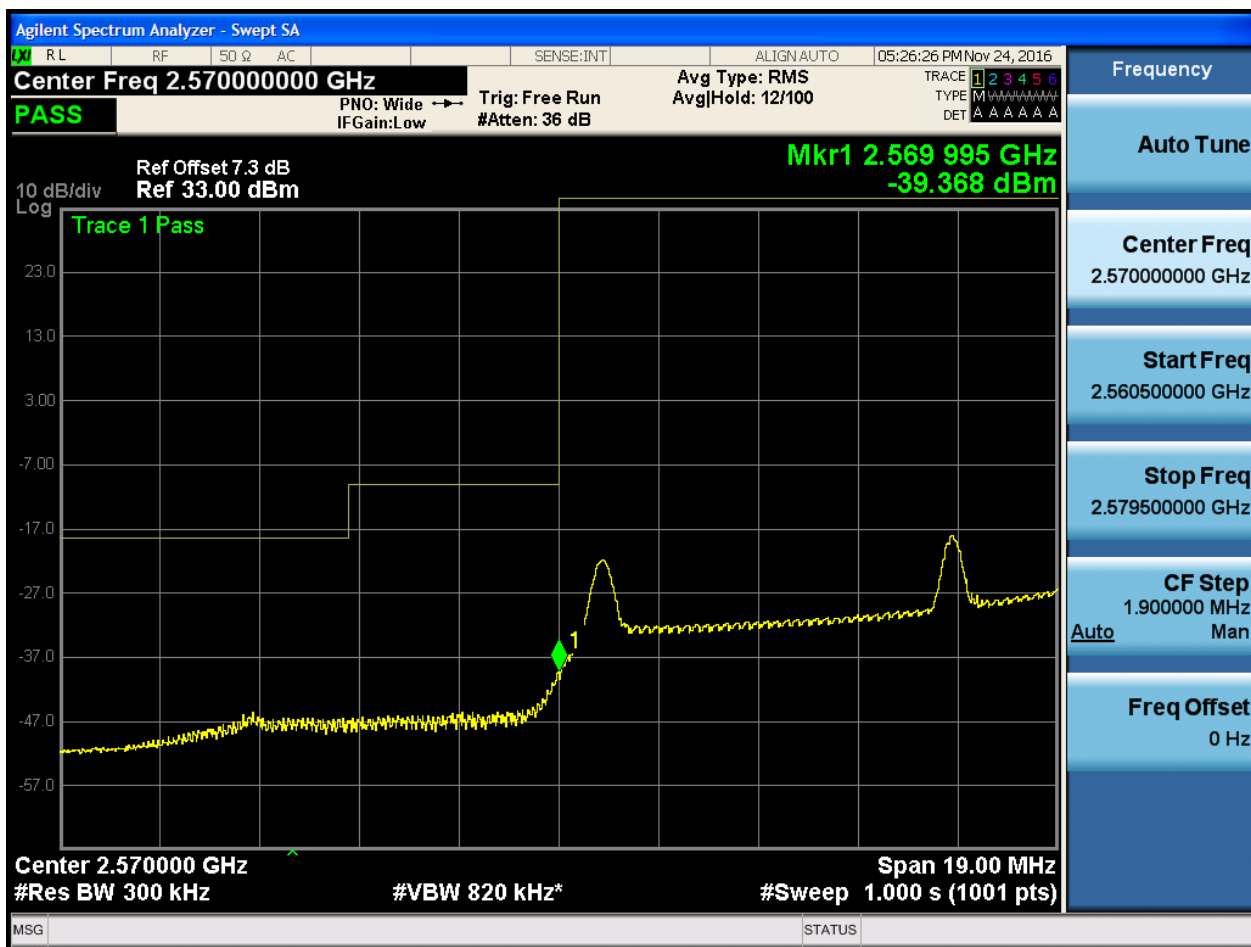
## 5.1.1.1.3.1 Test Channel = LCH

## 5.1.1.1.3.1.1 Test RB = RB1#0





## 5.1.1.1.3.1.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.570000000 GHz

PASS

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.569 995 GHz  
-28.227 dBm

10 dB/div  
Log

Trace 1 Pass

Center 2.570000 GHz  
#Res BW 300 kHz

#VBW 820 kHz\*

Span 19.00 MHz  
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq  
2.570000000 GHz

Start Freq  
2.560500000 GHz

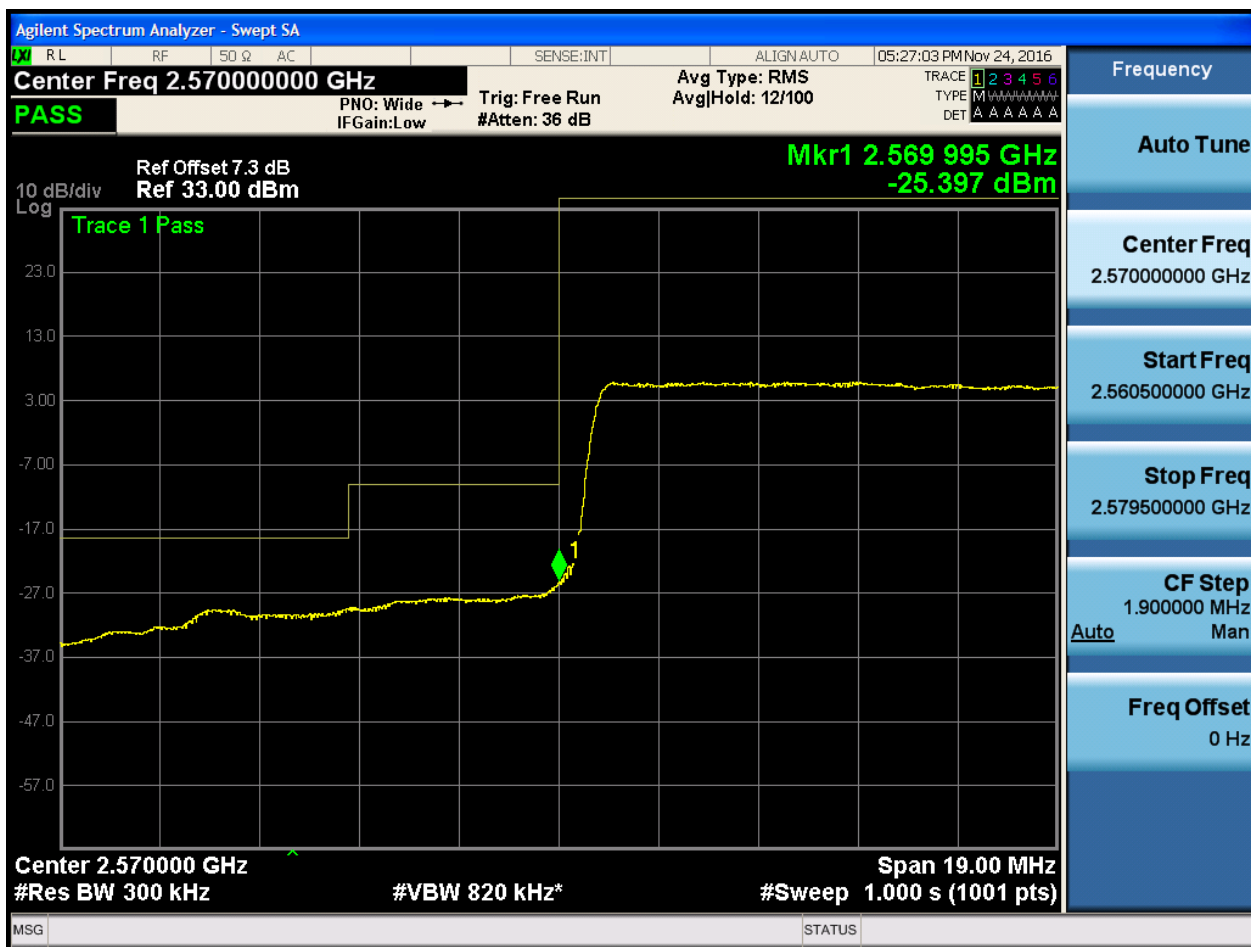
Stop Freq  
2.579500000 GHz

CF Step  
1.900000 MHz  
Auto Man

Freq Offset  
0 Hz



## 5.1.1.1.3.1.4 Test RB = RB75#0





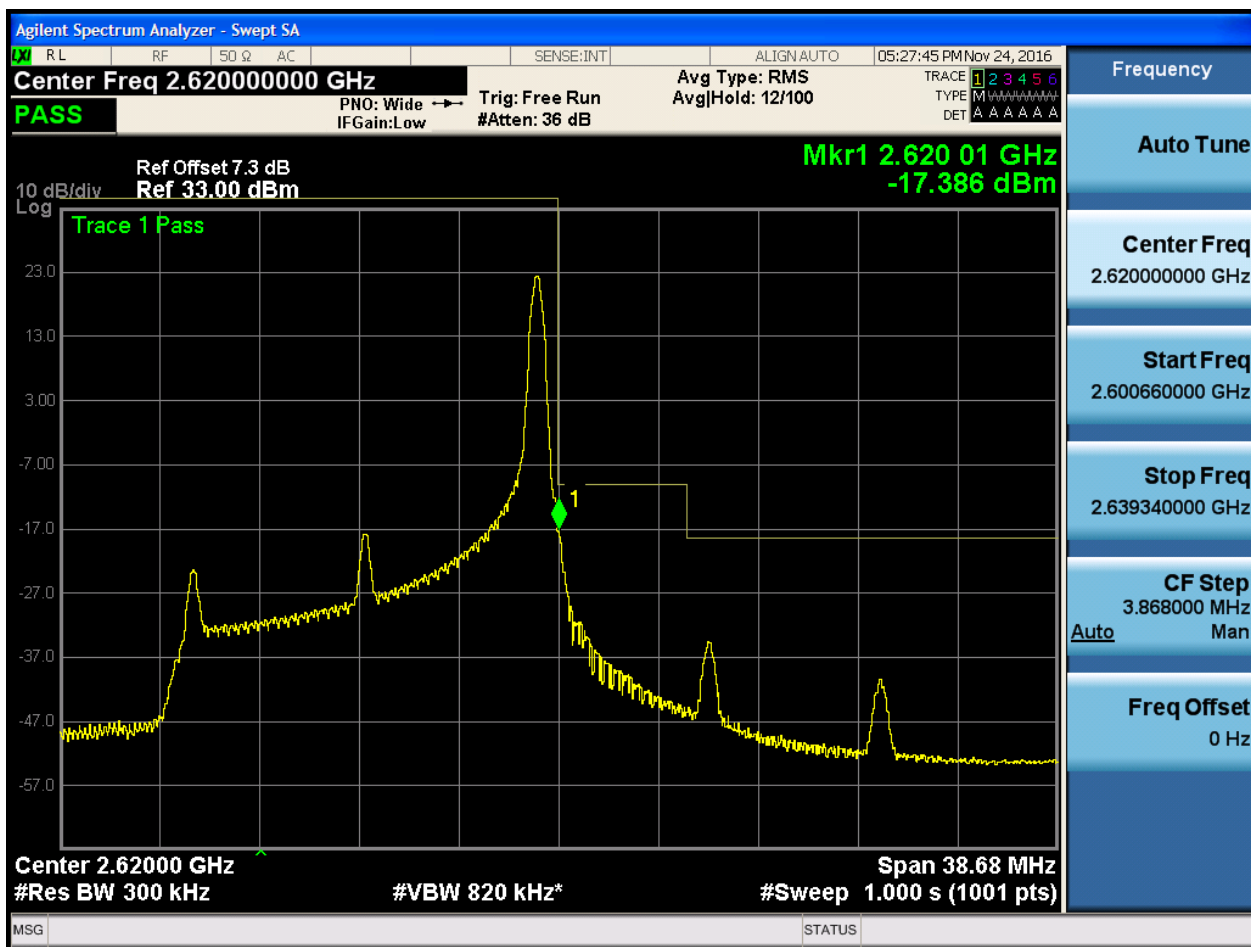
## 5.1.1.1.3.2 Test Channel = HCH

## 5.1.1.1.3.2.1 Test RB = RB1#0





## 5.1.1.1.3.2.2 Test RB = RB1#74





## 5.1.1.1.3.2.3 Test RB = RB36#18





## 5.1.1.1.3.2.4 Test RB = RB75#0

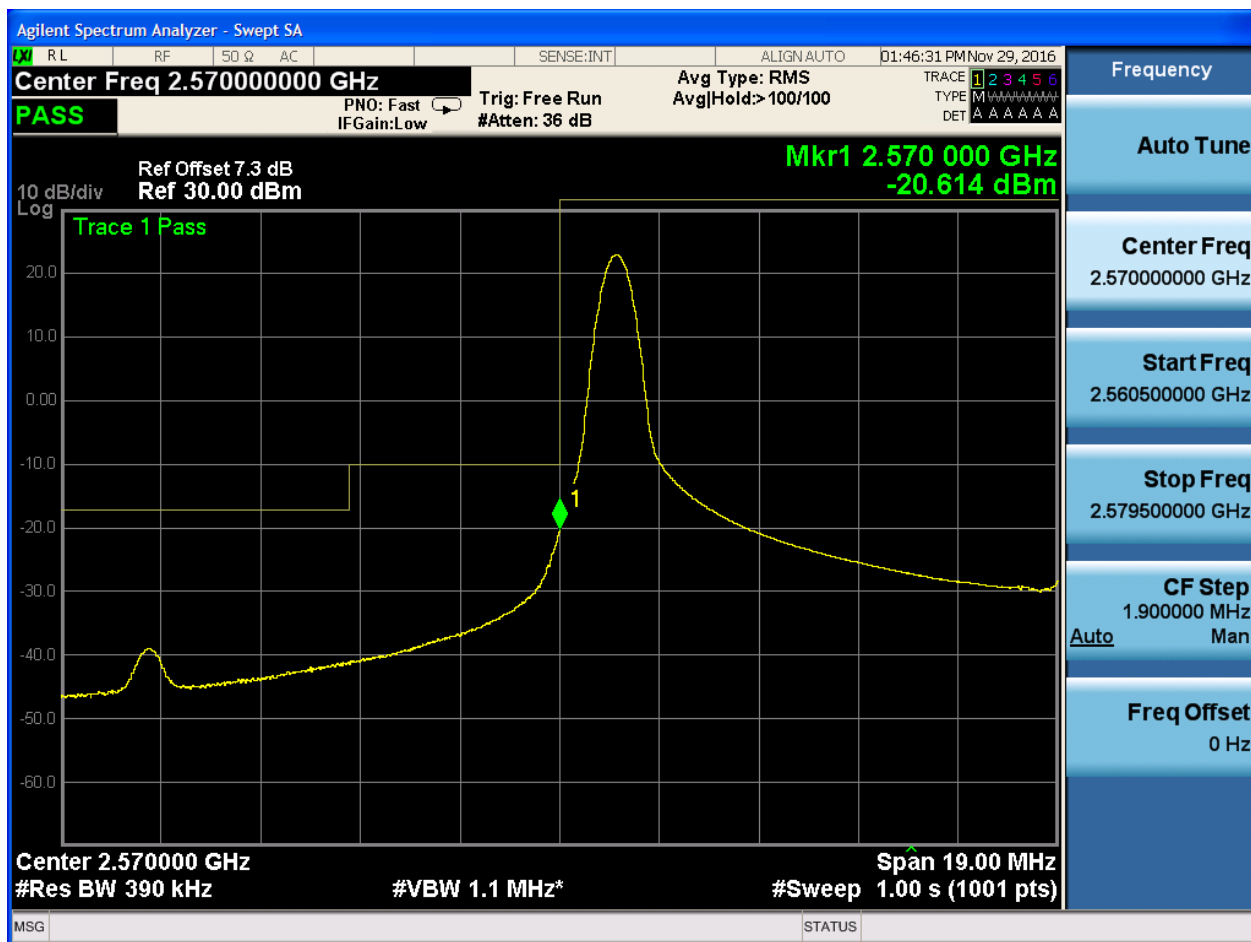




## 5.1.1.1.4 Test Bandwidth = 20

## 5.1.1.1.4.1 Test Channel = LCH

## 5.1.1.1.4.1.1 Test RB = RB1#0





**Agilent Spectrum Analyzer - Swept SA**

R L 50 Ω AC SENSE:INT ALIGN AUTO 05:29:06 PM Nov 24, 2016  
Center Freq 2.57000000 GHz Avg Type: RMS Trace 1 2 3 4 5 6  
**PASS** PNO: Wide Trig: Free Run TYPE M W A V ETYPE DET A A A A A A A  
IFGain:Low #Atten: 36 dB

Ref Offset 7.3 dB Mkr1 2.569 995 GHz  
Ref 33.00 dBm -33.787 dBm

10 dB/div Log

Trace 1 Pass

Center 2.57000 GHz Span 19.00 MHz  
#Res BW 820 kHz #VBW 2.4 MHz\* #Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 05:29:24 PM Nov 24, 2016

Center Freq 2.570000000 GHz Avg Type: RMS  
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100  
#Atten: 36 dB

TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W  
DET A A A A A A

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.569 995 GHz  
-25.205 dBm

10 dB/div  
Log

Trace 1 Pass

Center 2.570000 GHz  
#Res BW 820 kHz

#VBW 2.4 MHz\*

Span 19.00 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
2.570000000 GHz

Start Freq  
2.560500000 GHz

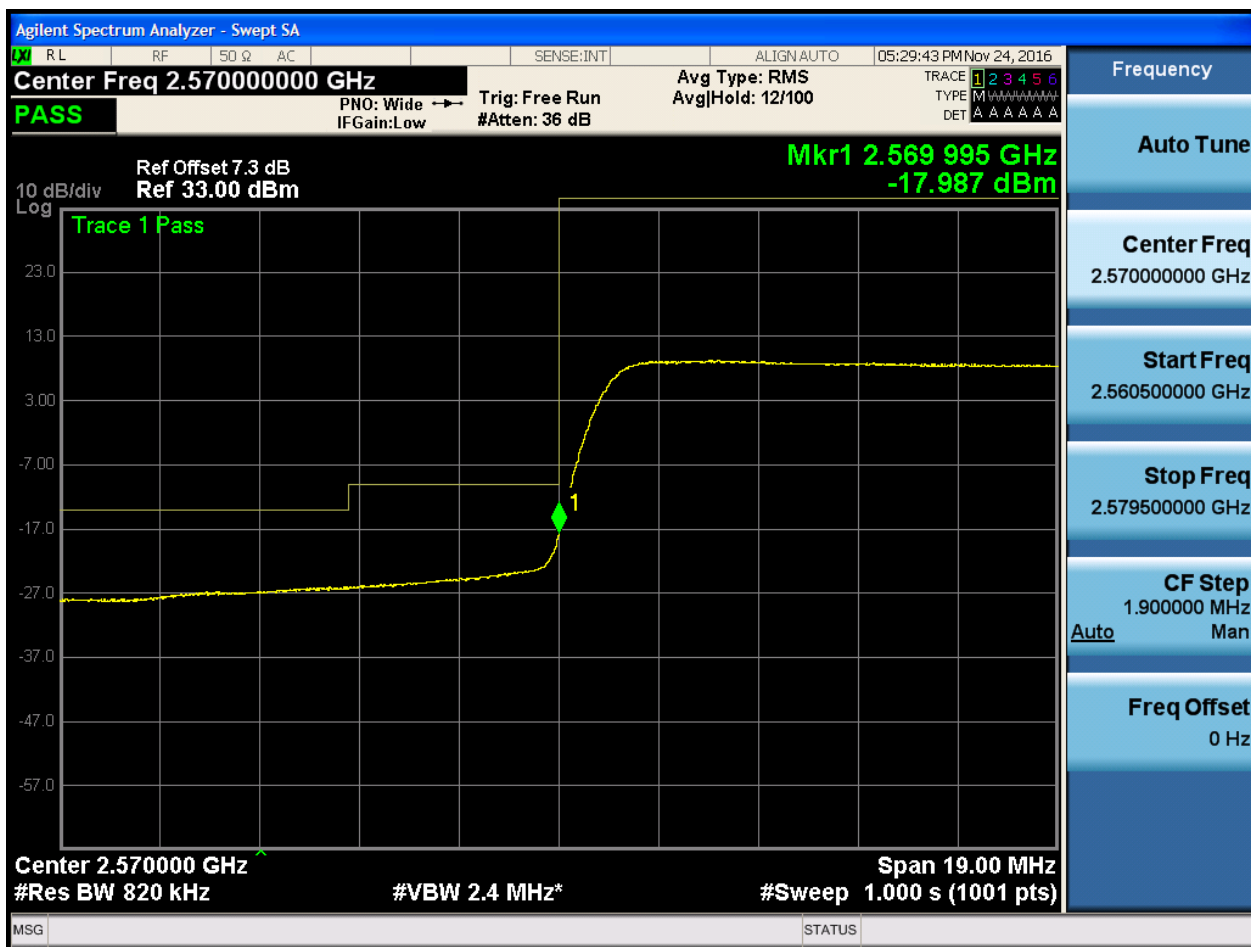
Stop Freq  
2.579500000 GHz

CF Step  
1.900000 MHz  
Auto Man

Freq Offset  
0 Hz



## 5.1.1.1.4.1.4 Test RB = RB100#0



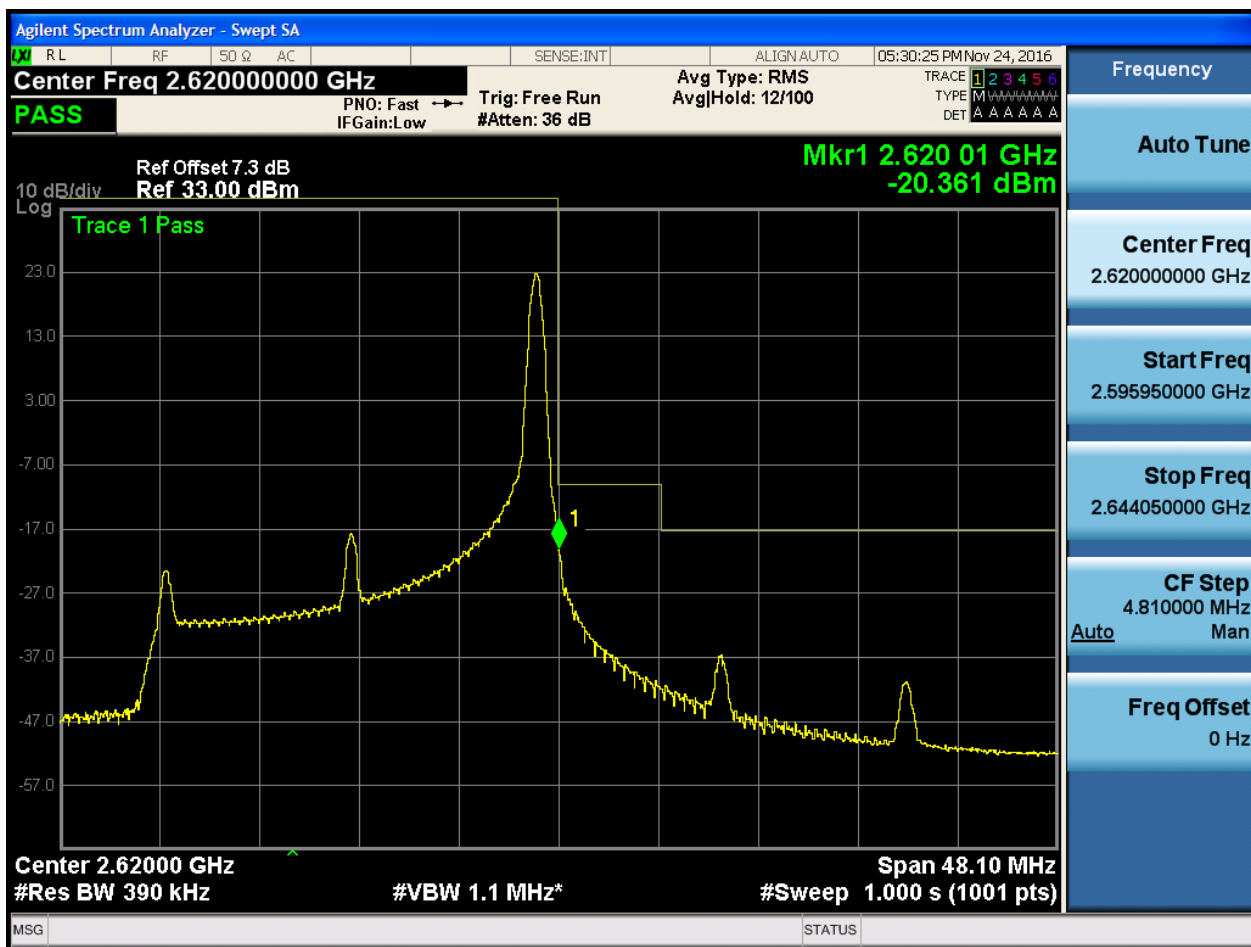


## 5.1.1.1.4.2 Test Channel = HCH

## 5.1.1.1.4.2.1 Test RB = RB1#0



#### 5.1.1.1.4.2.2 Test RB = RB1#99





## 5.1.1.1.4.2.3 Test RB = RB50#25





## 5.1.1.1.4.2.4 Test RB = RB100#0



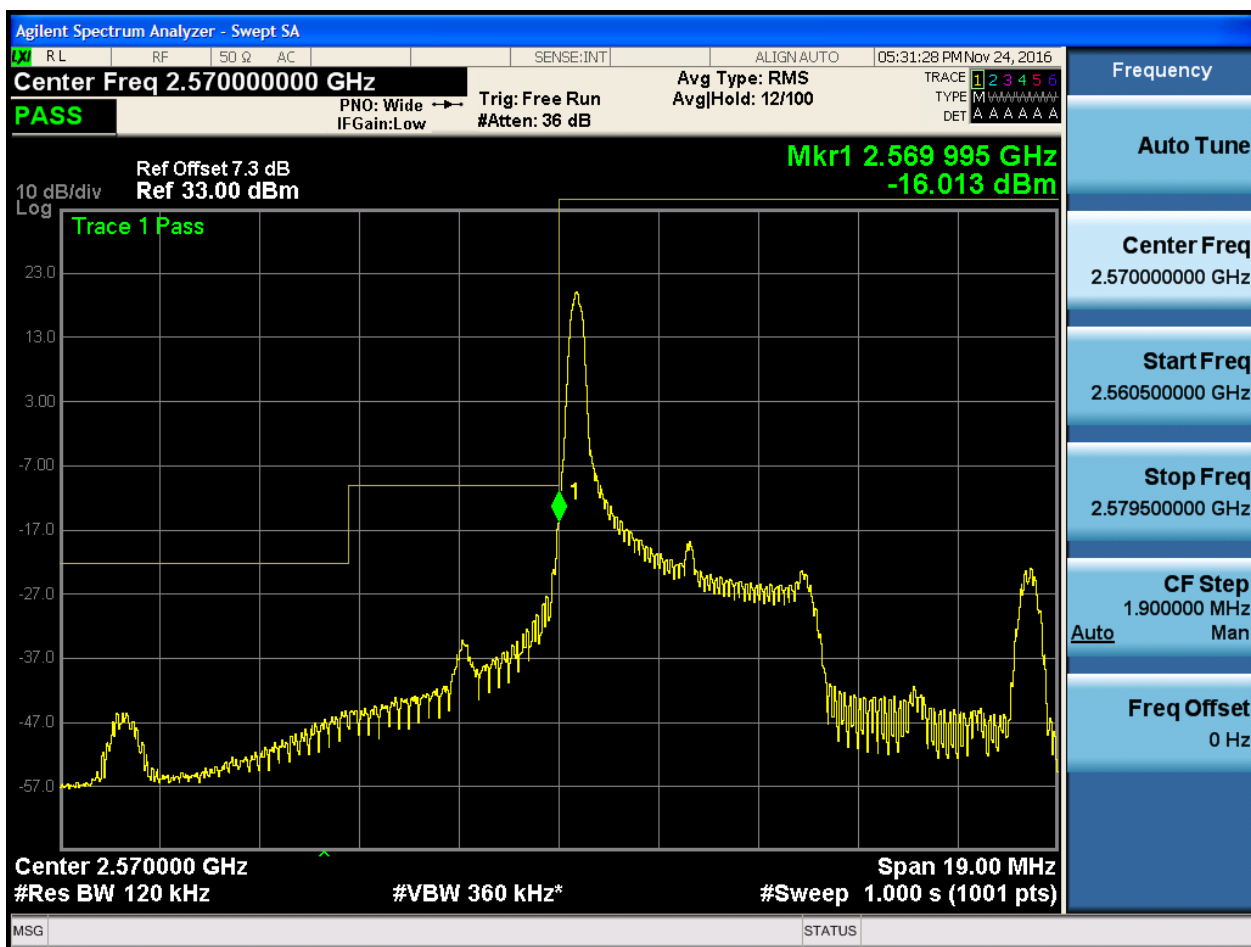


## 5.1.1.2 Test Mode = LTE/TM2

## 5.1.1.2.1 Test Bandwidth = 5

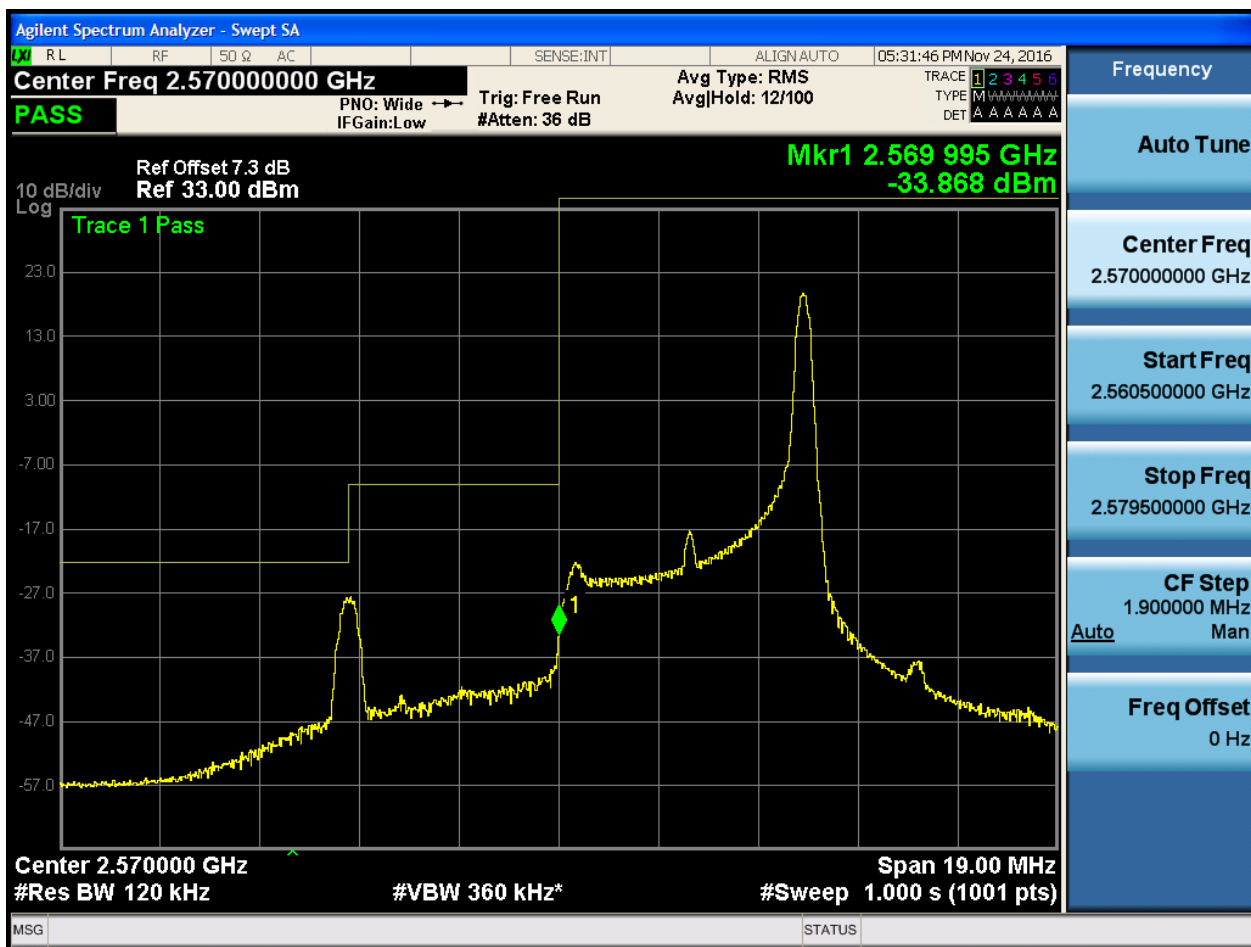
## 5.1.1.2.1.1 Test Channel = LCH

## 5.1.1.2.1.1.1 Test RB = RB1#0



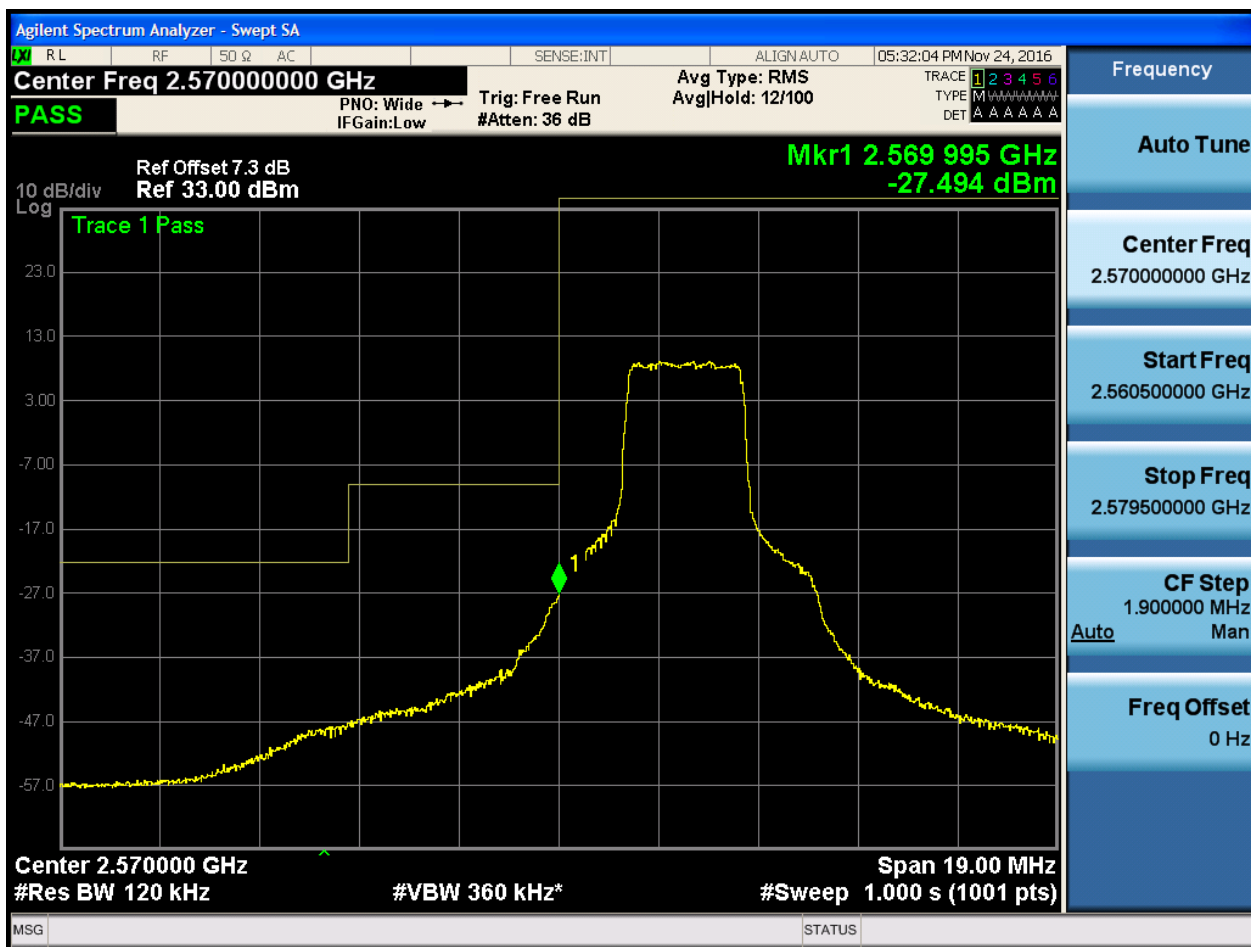


## 5.1.1.2.1.1.2 Test RB = RB1#24





## 5.1.1.2.1.1.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 05:32:23 PM Nov 24, 2016

Center Freq 2.570000000 GHz Avg Type: RMS  
PASS PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 12/100  
TYPE M DET A A A A A A

Ref Offset 7.3 dB Mkr1 2.569 995 GHz  
Ref 33.00 dBm -25.571 dBm

10 dB/div Log

Trace 1 Pass

Center 2.570000 GHz Span 19.00 MHz  
#Res BW 120 kHz #VBW 360 kHz\* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
2.570000000 GHz

Start Freq  
2.560500000 GHz

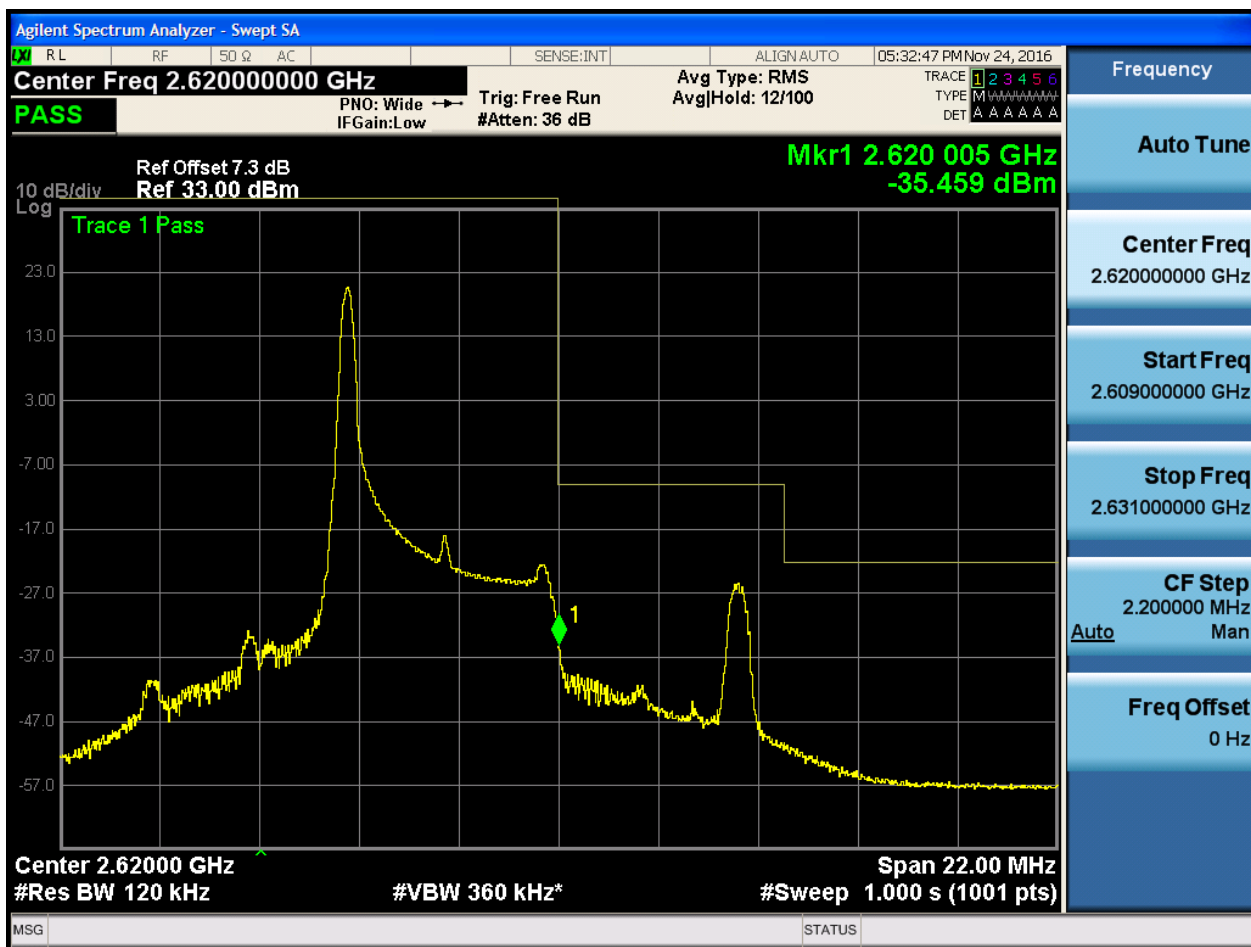
Stop Freq  
2.579500000 GHz

CF Step  
1.900000 MHz  
Auto Man

Freq Offset  
0 Hz

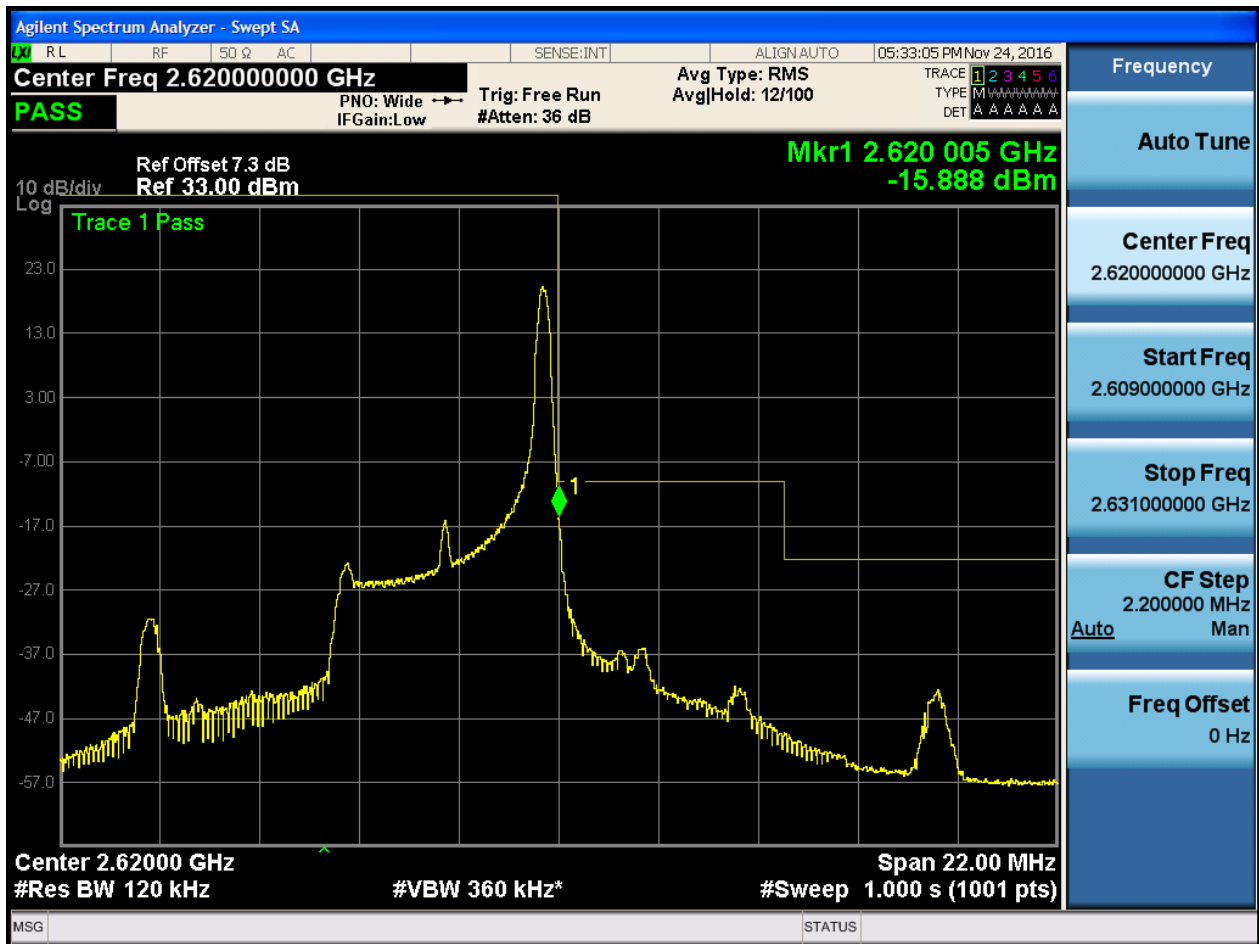
#### 5.1.1.2.1.2 Test Channel = HCH

#### 5.1.1.2.1.2.1 Test RB = RB1#0





## 5.1.1.2.1.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN: AUTO 05:33:23 PM Nov 24, 2016

Center Freq 2.620000000 GHz Avg Type: RMS  
PASS PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 12/100  
TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W W W  
DET A A A A A A A

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.620 005 GHz  
-24.521 dBm

10 dB/div  
Log

Trace 1 Pass

Center 2.62000 GHz  
#Res BW 120 kHz  
#VBW 360 kHz\*  
Span 22.00 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
2.620000000 GHz

Start Freq  
2.609000000 GHz

Stop Freq  
2.631000000 GHz

CF Step  
2.200000 MHz  
Auto Man

Freq Offset  
0 Hz



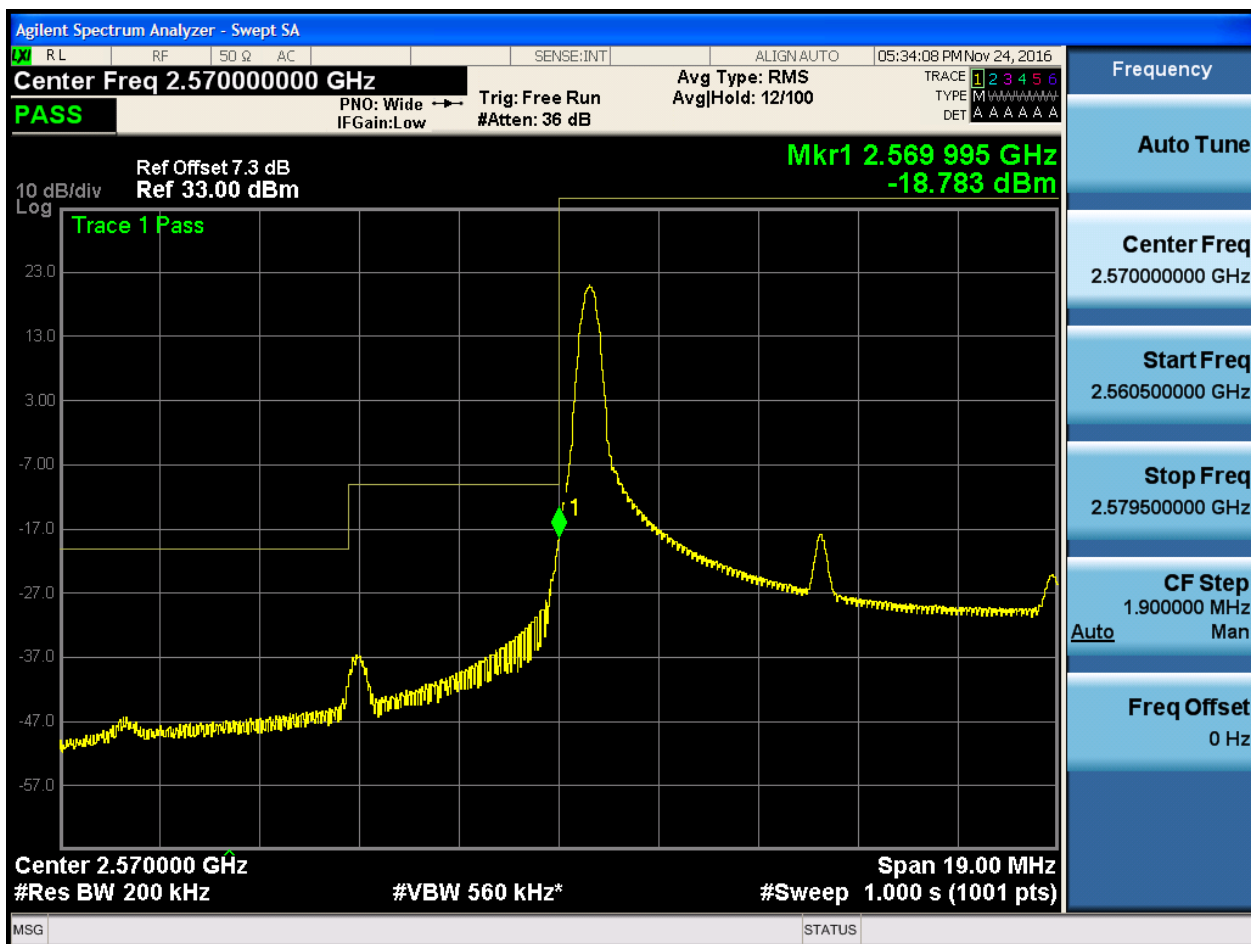
## 5.1.1.2.1.2.4 Test RB = RB25#0



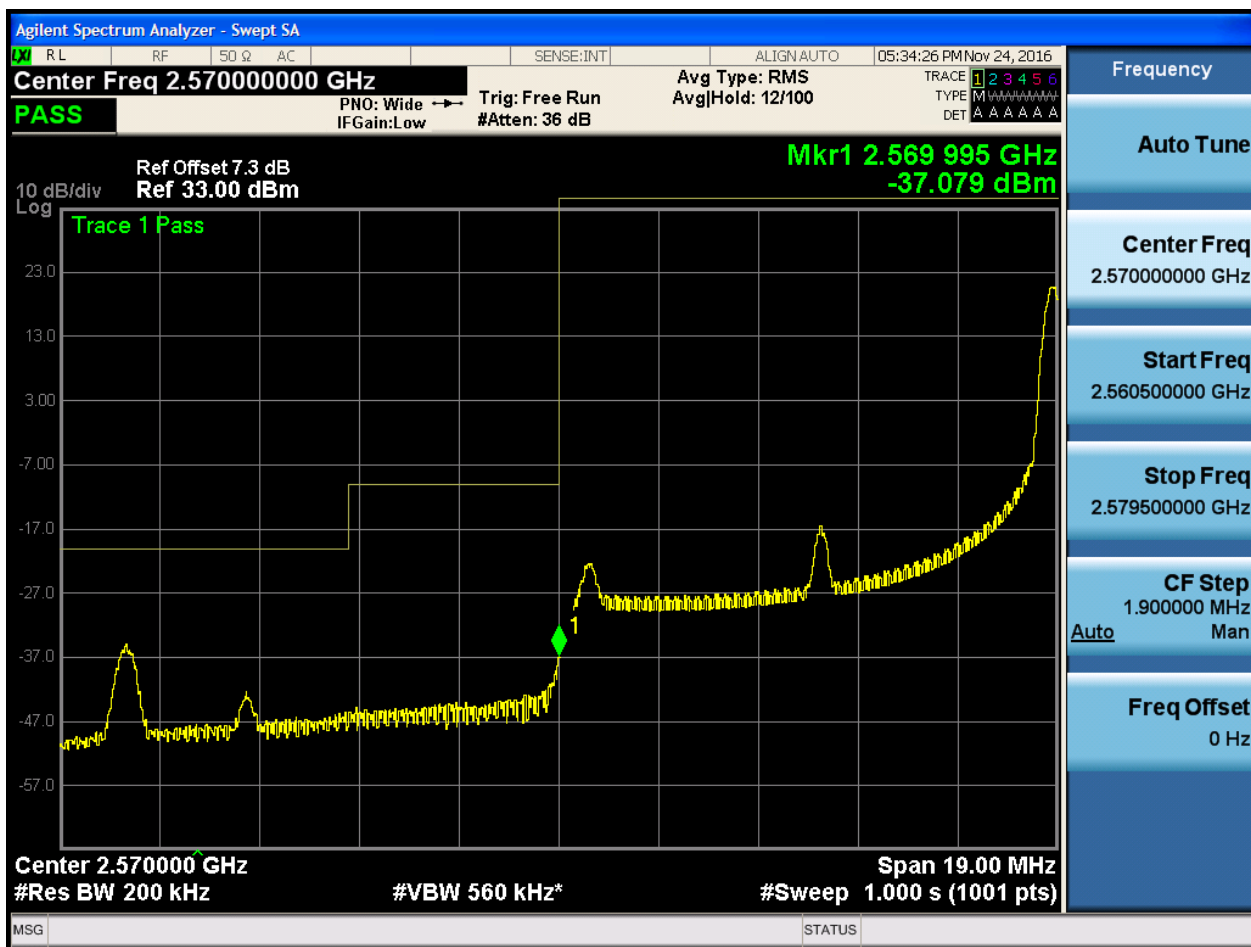
### 5.1.1.2.2 Test Bandwidth = 10

#### 5.1.1.2.2.1 Test Channel = LCH

##### 5.1.1.2.2.1.1 Test RB = RB1#0

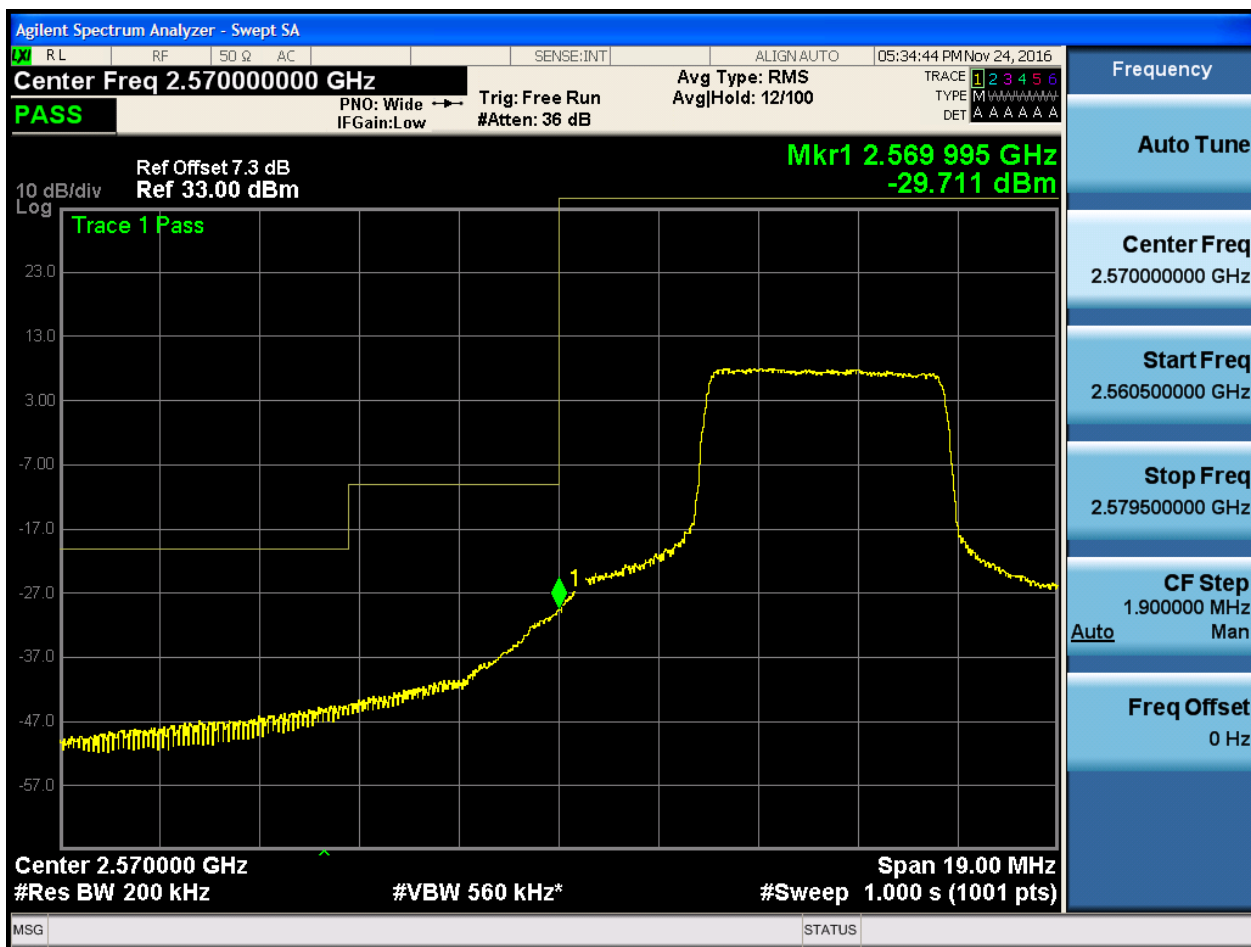


#### 5.1.1.2.2.1.2 Test RB = RB1#49



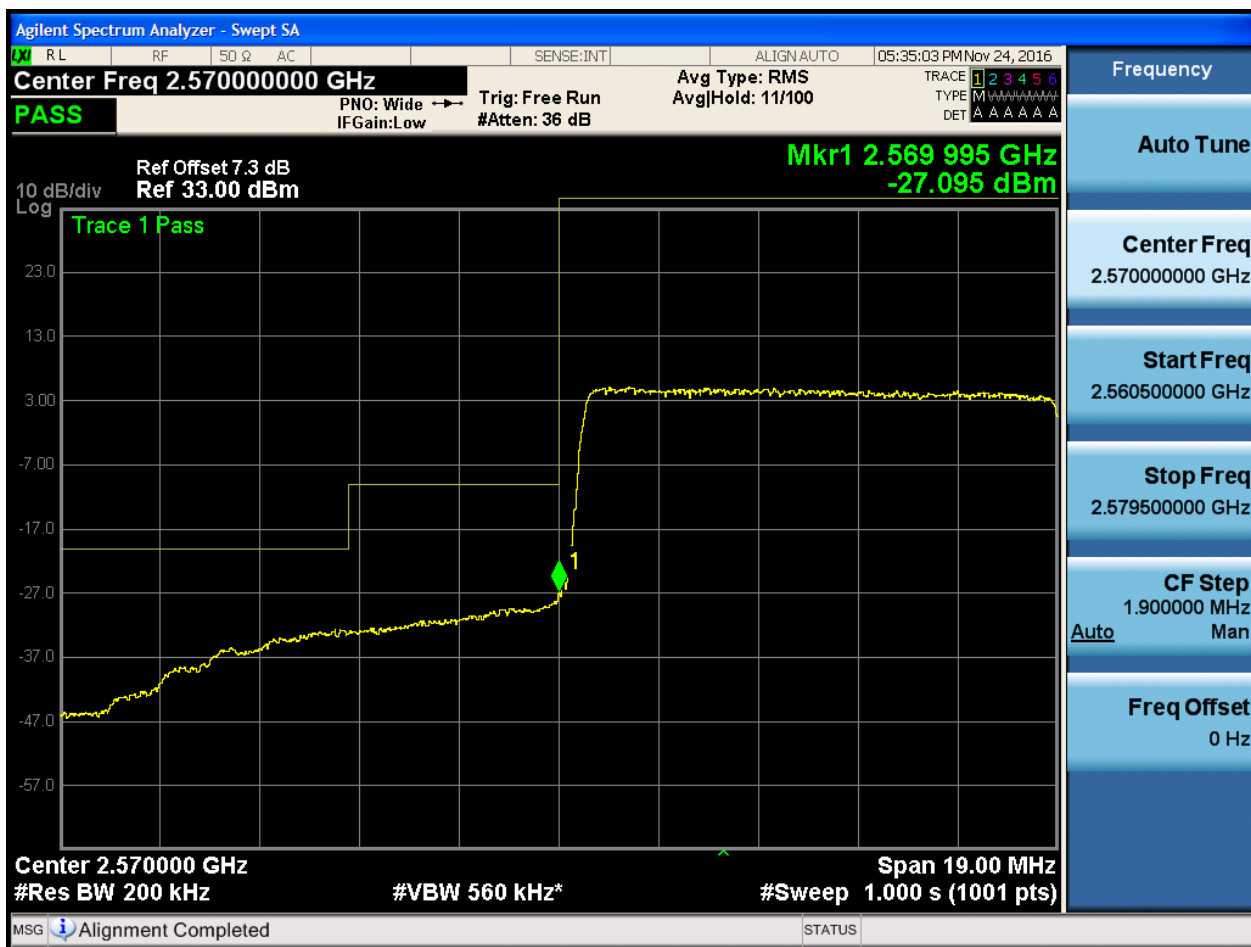


## 5.1.1.2.2.1.3 Test RB = RB25#13





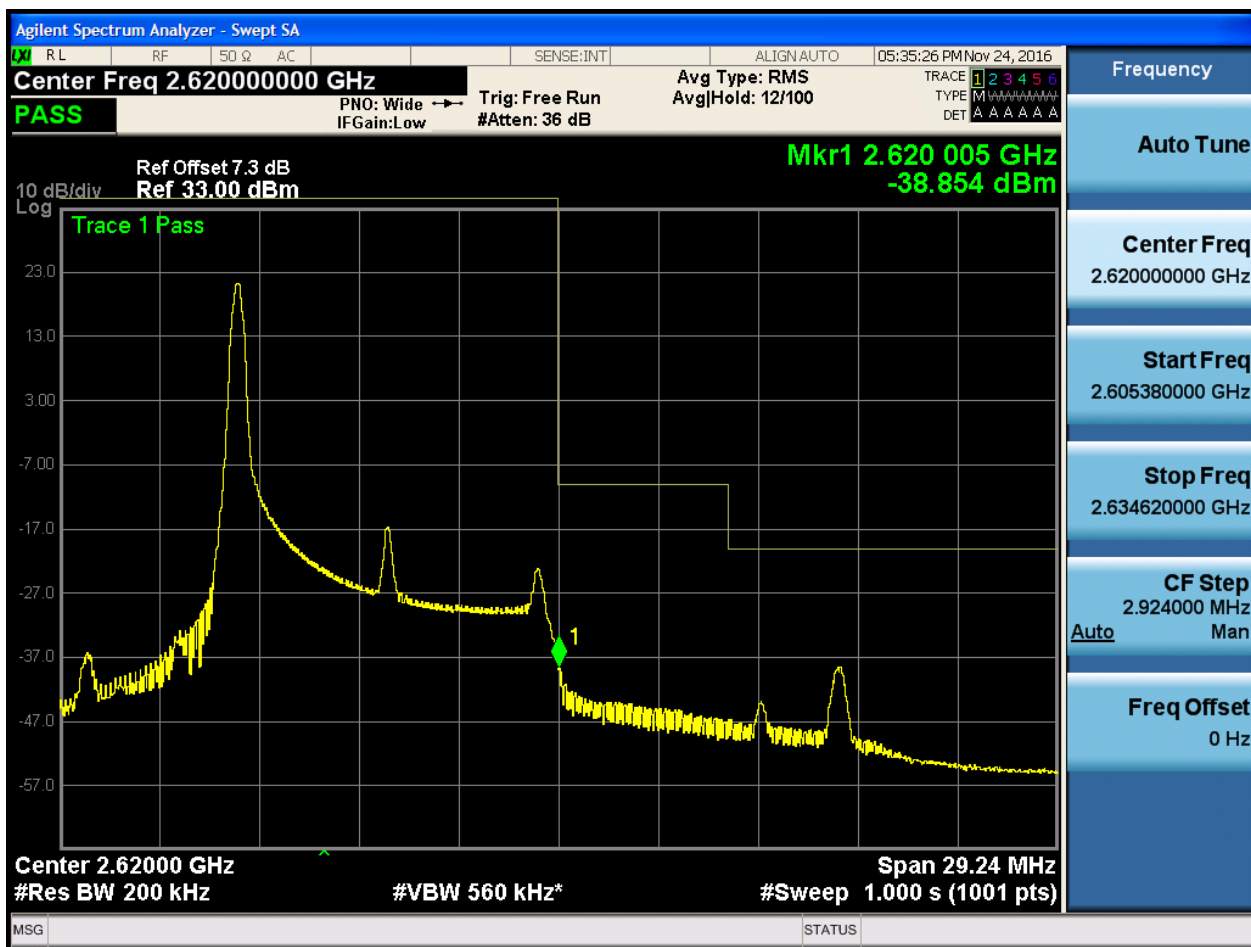
## 5.1.1.2.2.1.4 Test RB = RB50#0



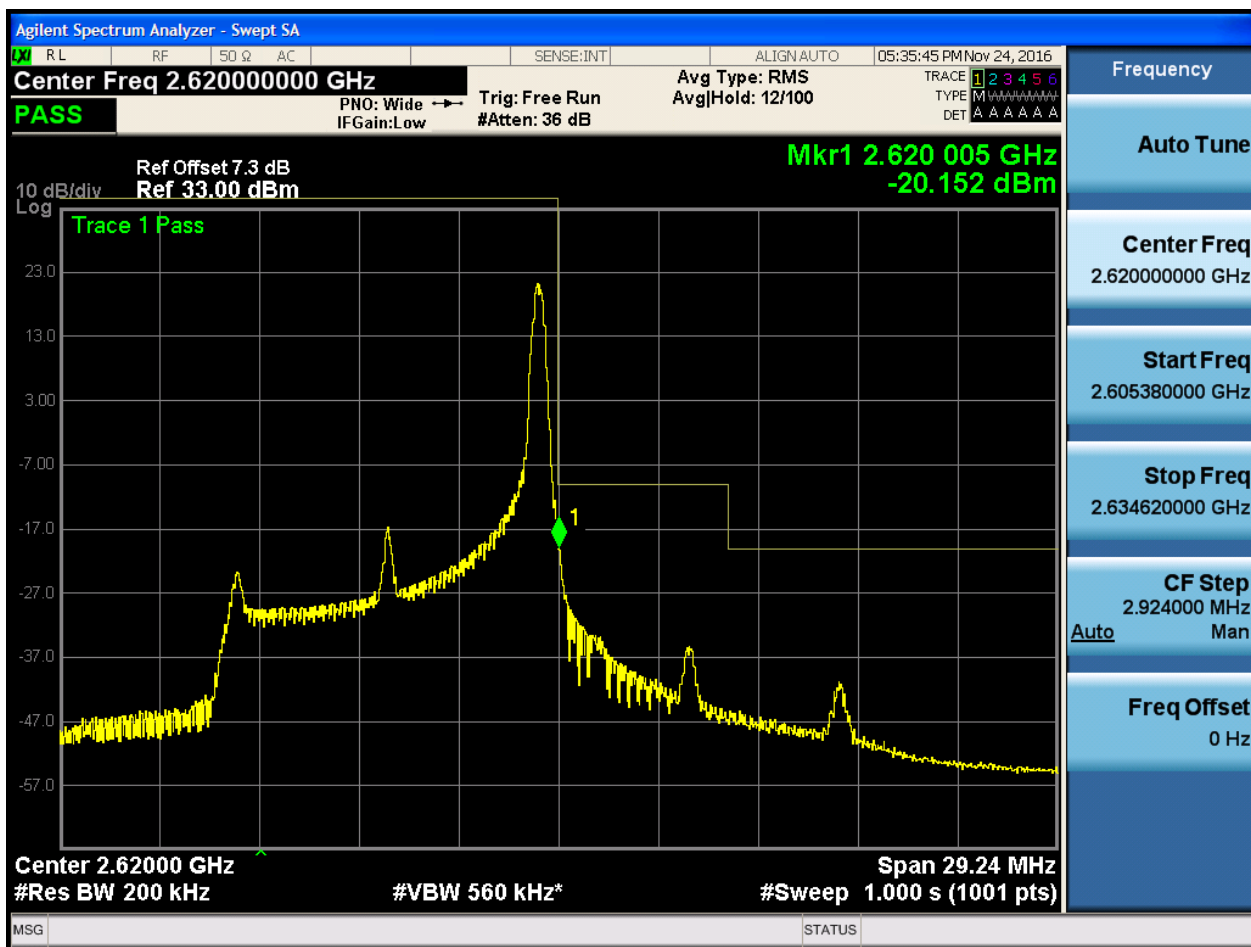


## 5.1.1.2.2.2 Test Channel = HCH

## 5.1.1.2.2.2.1 Test RB = RB1#0



#### 5.1.1.2.2.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN AUTO 05:36:03 PM Nov 24, 2016

Center Freq 2.620000000 GHz Avg Type: RMS  
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100  
TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W W W  
DET A A A A A A

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.620 005 GHz  
-24.925 dBm

10 dB/div  
Log

Trace 1 Pass

Center 2.62000 GHz  
#Res BW 200 kHz  
#VBW 560 kHz\*  
Span 29.24 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
2.620000000 GHz

Start Freq  
2.605380000 GHz

Stop Freq  
2.634620000 GHz

CF Step  
2.924000 MHz  
Auto Man

Freq Offset  
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN: AUTO 05:36:22 PM Nov 24, 2016

Center Freq 2.620000000 GHz Avg Type: RMS  
PASS PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 12/100  
#Atten: 36 dB

TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W  
DET A A A A A A

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.620 005 GHz  
-24.084 dBm

10 dB/div  
Log

Trace 1 Pass

Center 2.62000 GHz  
#Res BW 200 kHz  
#VBW 560 kHz\*  
Span 29.24 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
2.620000000 GHz

Start Freq  
2.605380000 GHz

Stop Freq  
2.634620000 GHz

CF Step  
2.924000 MHz  
Man

Auto

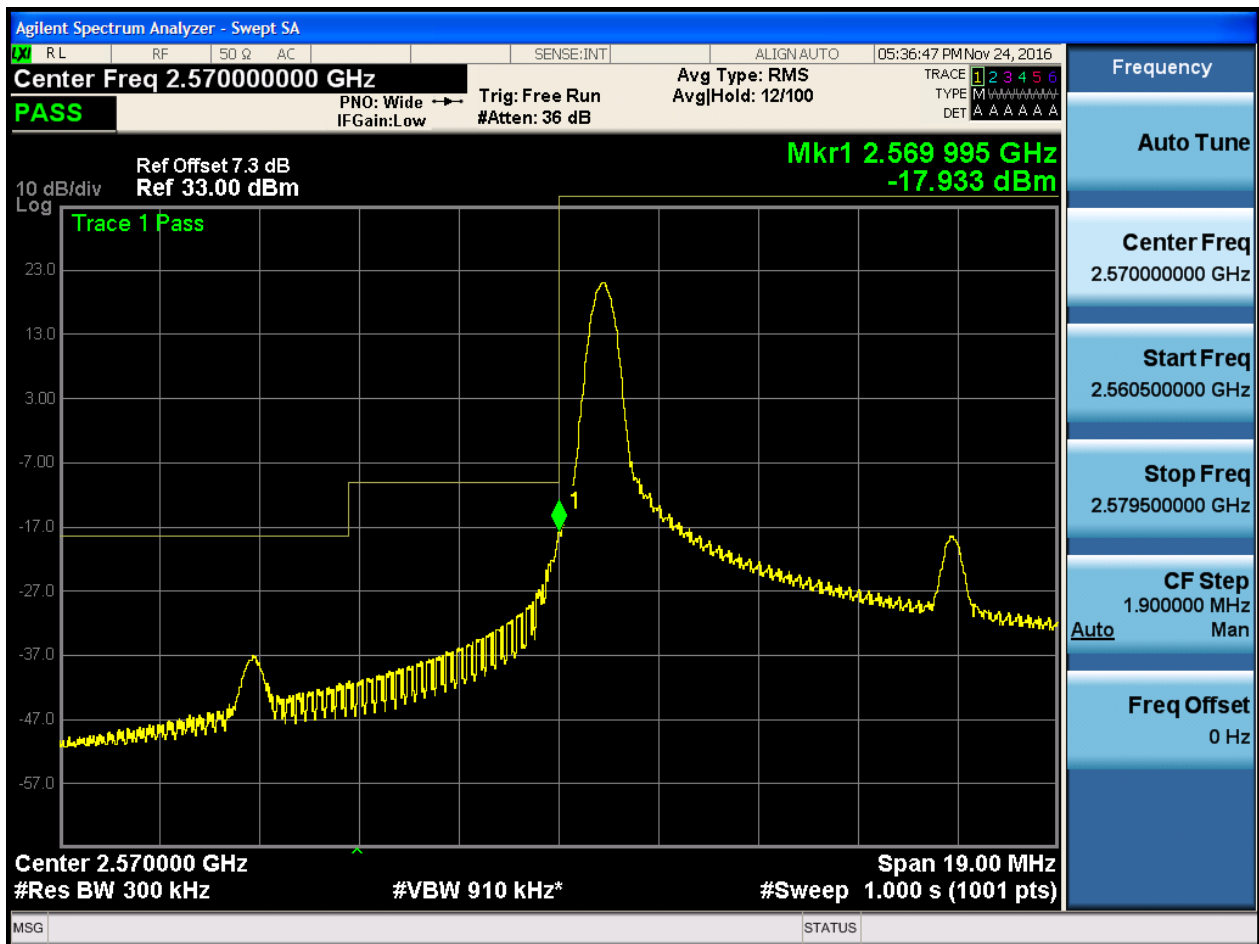
Freq Offset  
0 Hz



## 5.1.1.2.3 Test Bandwidth = 15

## 5.1.1.2.3.1 Test Channel = LCH

## 5.1.1.2.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN: AUTO 05:37:06 PM Nov 24, 2016

Center Freq 2.570000000 GHz Avg Type: RMS  
PASS PNO: Wide IFGain: Low Trig: Free Run AvgHold: 12/100  
#Atten: 36 dB

TRACE 1 2 3 4 5 6  
TYPE M W W W W W W W  
DET A A A A A A

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.569 995 GHz  
-40.607 dBm

10 dB/div  
Log

Trace 1 Pass

Center 2.570000 GHz  
#Res BW 300 kHz #VBW 910 kHz\* Span 19.00 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency  
Auto Tune  
Center Freq  
2.570000000 GHz  
Start Freq  
2.560500000 GHz  
Stop Freq  
2.579500000 GHz  
CF Step  
1.900000 MHz  
Auto Man  
Freq Offset  
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN: AUTO 05:37:24 PM Nov 24, 2016

Center Freq 2.570000000 GHz Avg Type: RMS  
PASS PNO: Wide IFGain: Low Trig: Free Run AvgHold: 12/100  
#Atten: 36 dB TYPE M A A A A A A A DET A A A A A A A

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.569 995 GHz  
-29.563 dBm

10 dB/div  
Log

Trace 1 Pass

Center 2.570000 GHz  
#Res BW 300 kHz #VBW 910 kHz\* Span 19.00 MHz  
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
2.570000000 GHz

Start Freq  
2.565000000 GHz

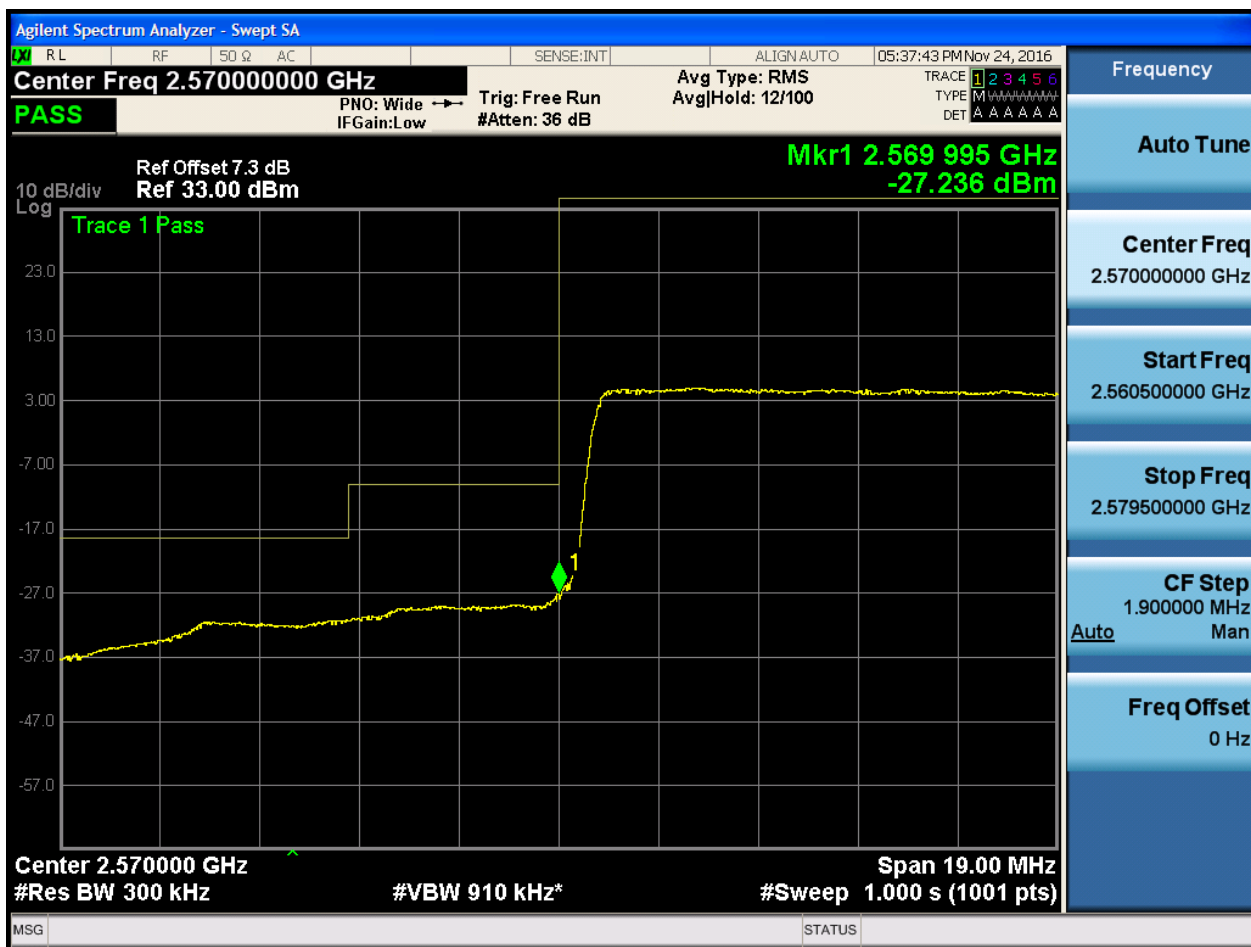
Stop Freq  
2.579500000 GHz

CF Step  
1.900000 MHz  
Auto Man

Freq Offset  
0 Hz



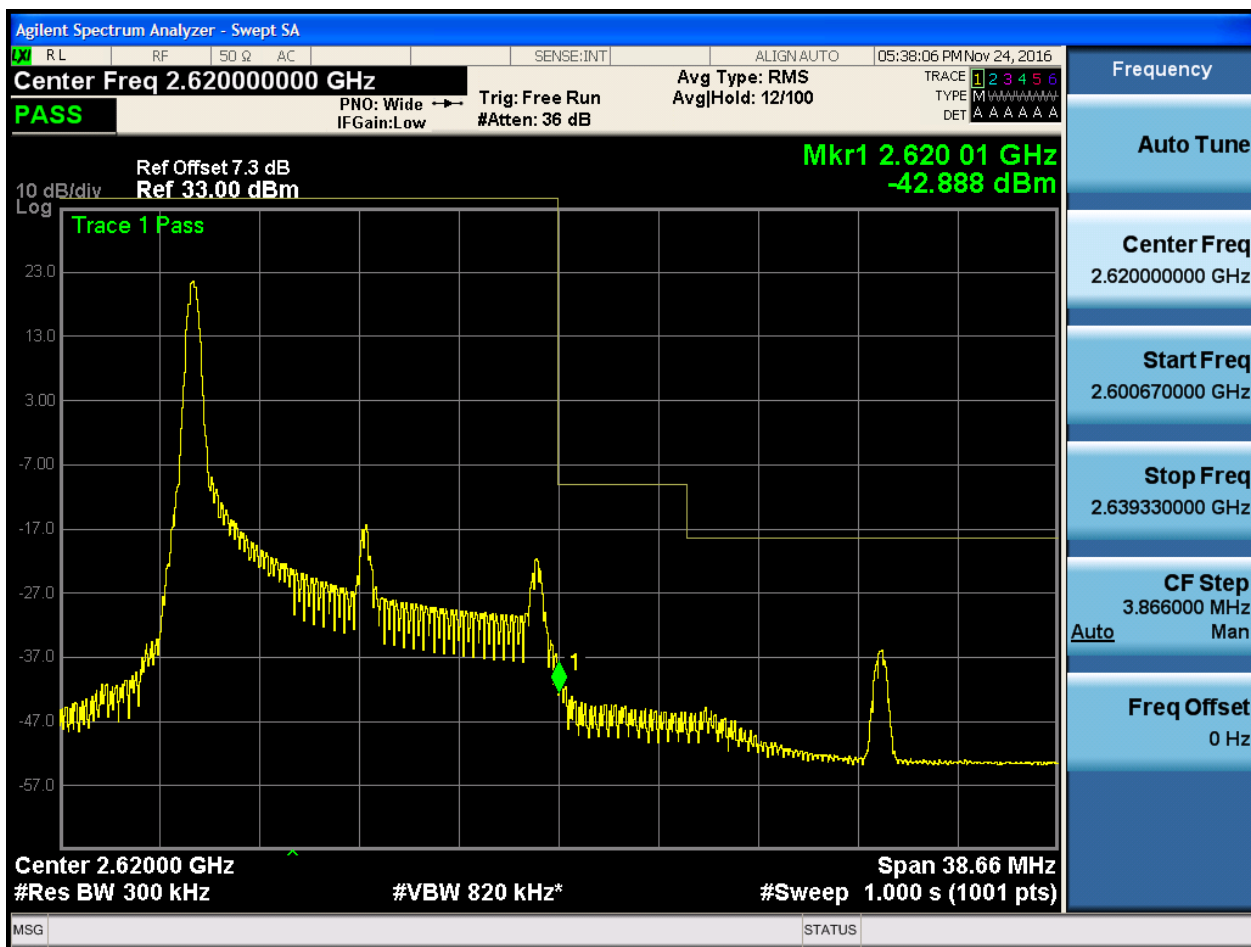
## 5.1.1.2.3.1.4 Test RB = RB75#0





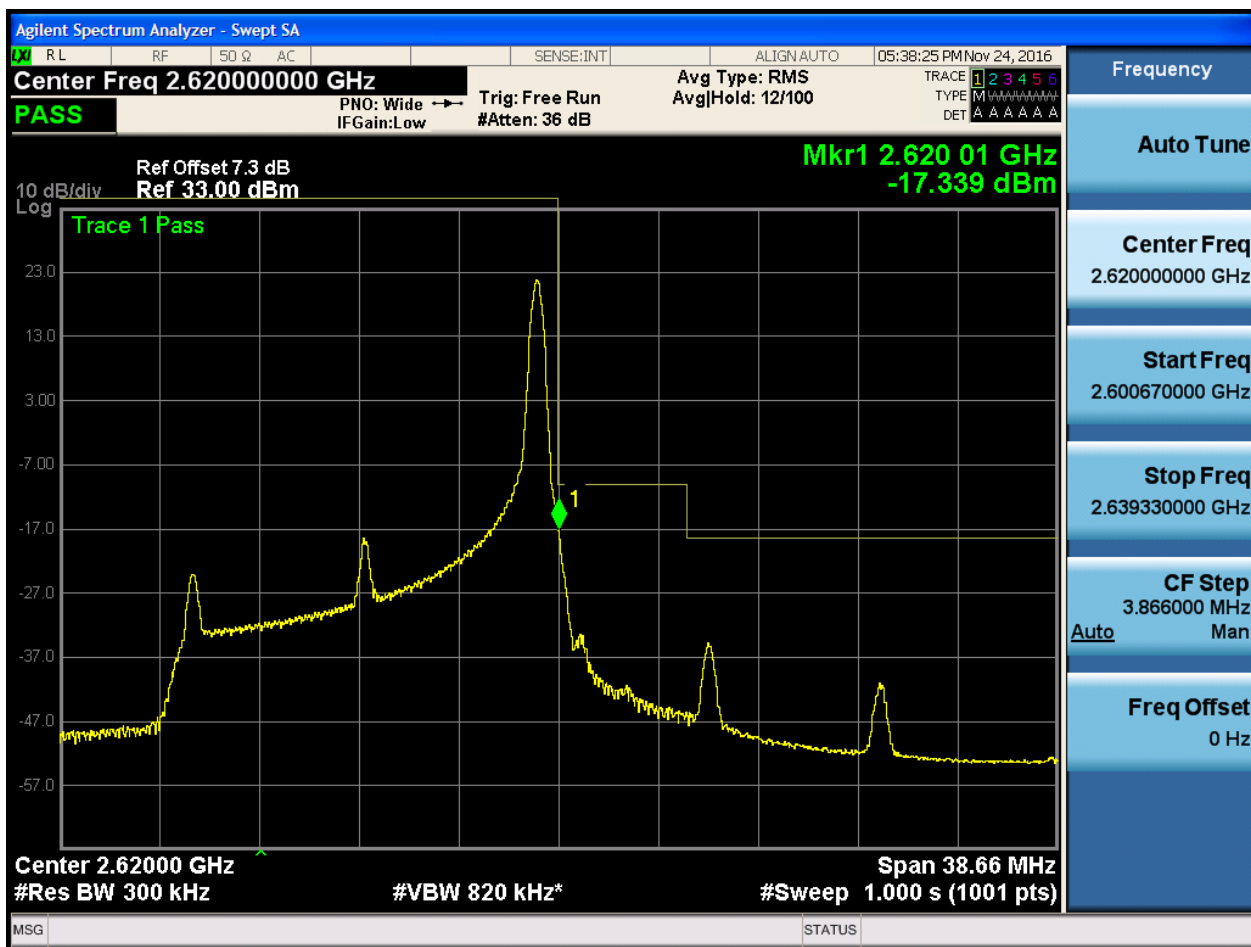
## 5.1.1.2.3.2 Test Channel = HCH

## 5.1.1.2.3.2.1 Test RB = RB1#0





## 5.1.1.2.3.2.2 Test RB = RB1#74



#### 5.1.1.2.3.2.3 Test RB = RB36#18





## 5.1.1.2.3.2.4 Test RB = RB75#0

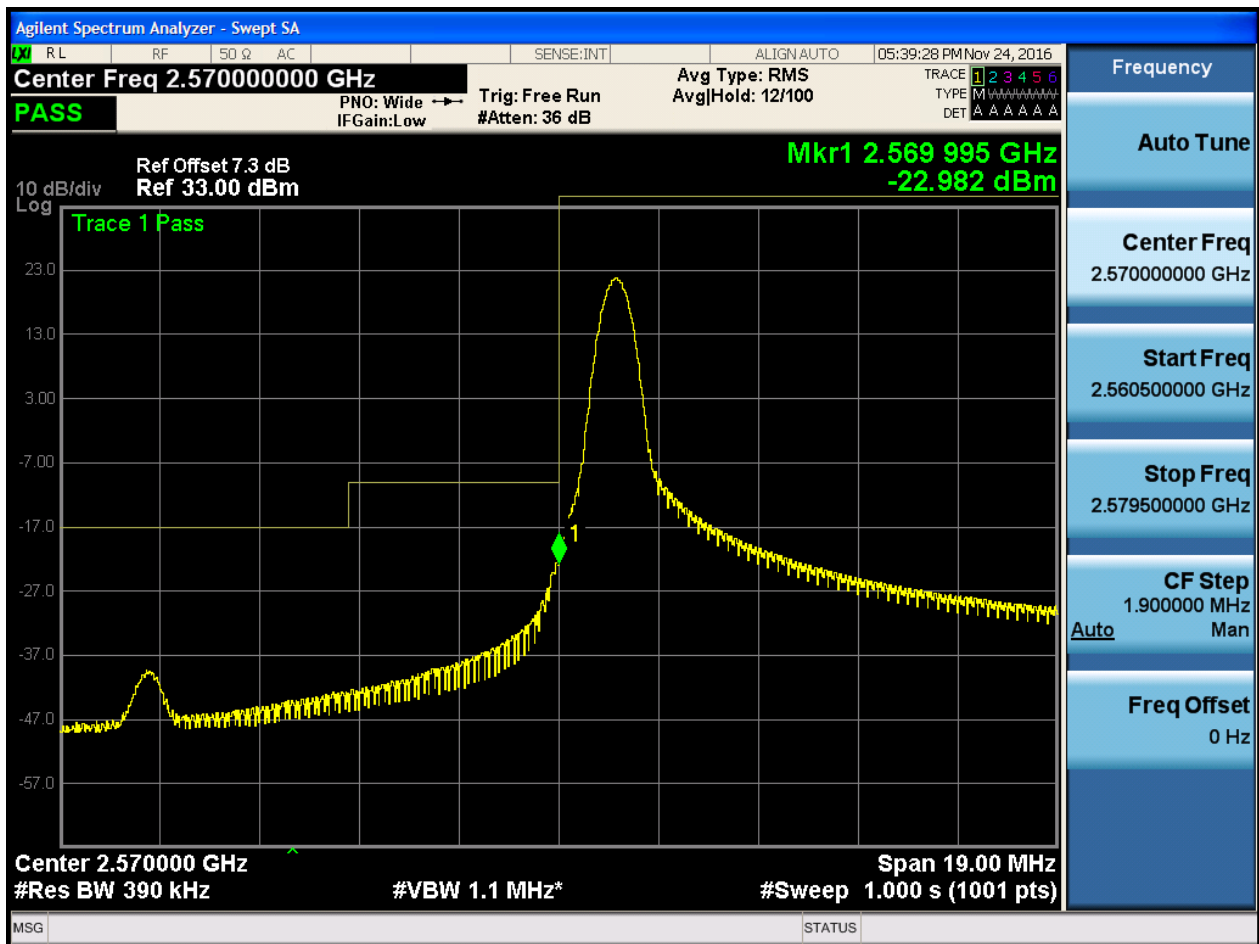




## 5.1.1.2.4 Test Bandwidth = 20

## 5.1.1.2.4.1 Test Channel = LCH

## 5.1.1.2.4.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.570000000 GHz

PASS

Ref Offset 7.3 dB  
Ref 33.00 dBm

Mkr1 2.569 995 GHz  
-38.462 dBm

10 dB/div  
Log

Trace 1 Pass

Center 2.570000 GHz  
#Res BW 390 kHz

#VBW 1.1 MHz\*

Span 19.00 MHz  
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq  
2.570000000 GHz

Start Freq  
2.560500000 GHz

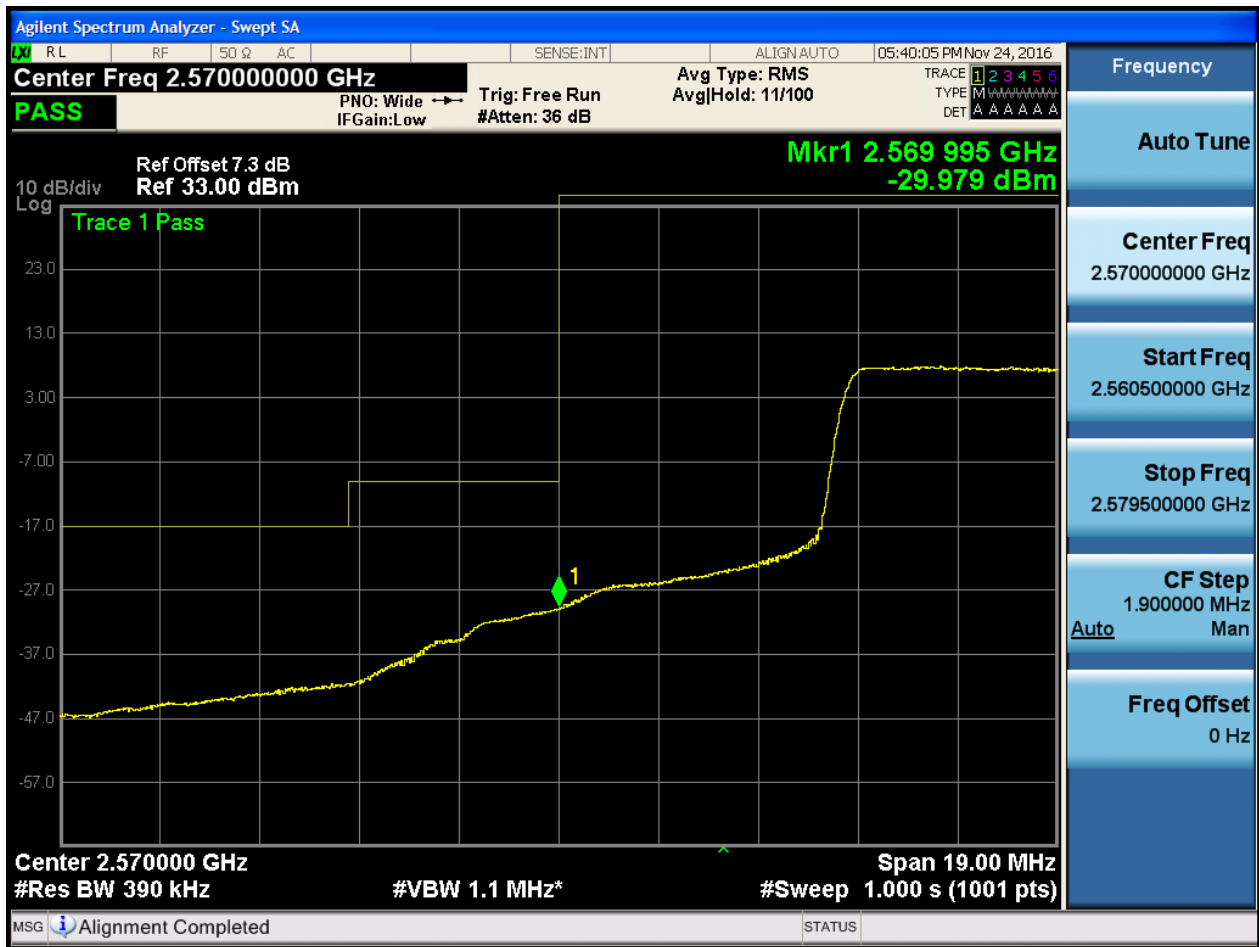
Stop Freq  
2.579500000 GHz

CF Step  
1.900000 MHz  
Auto

Freq Offset  
0 Hz



## 5.1.1.2.4.1.3 Test RB = RB50#25





## 5.1.1.2.4.1.4 Test RB = RB100#0

