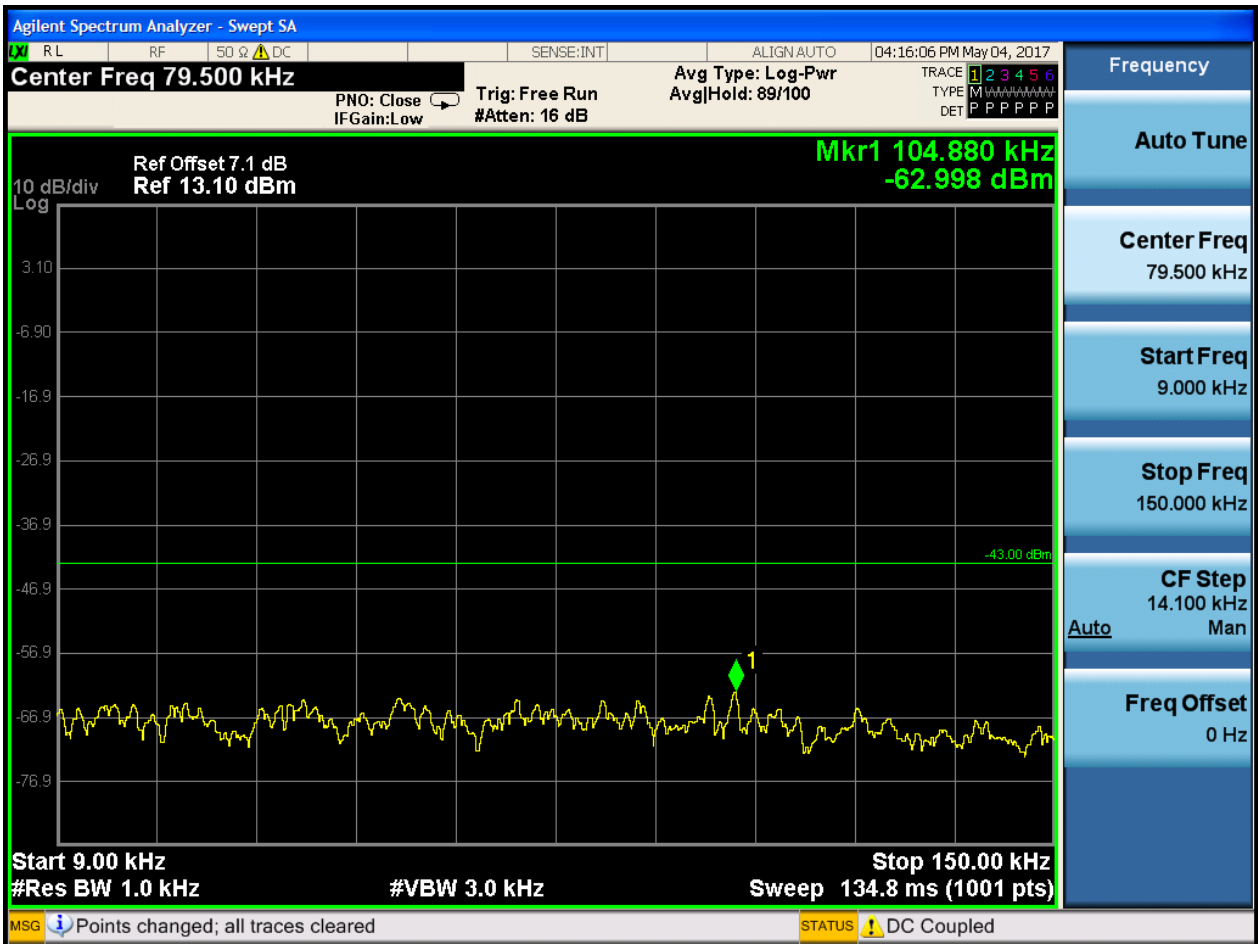


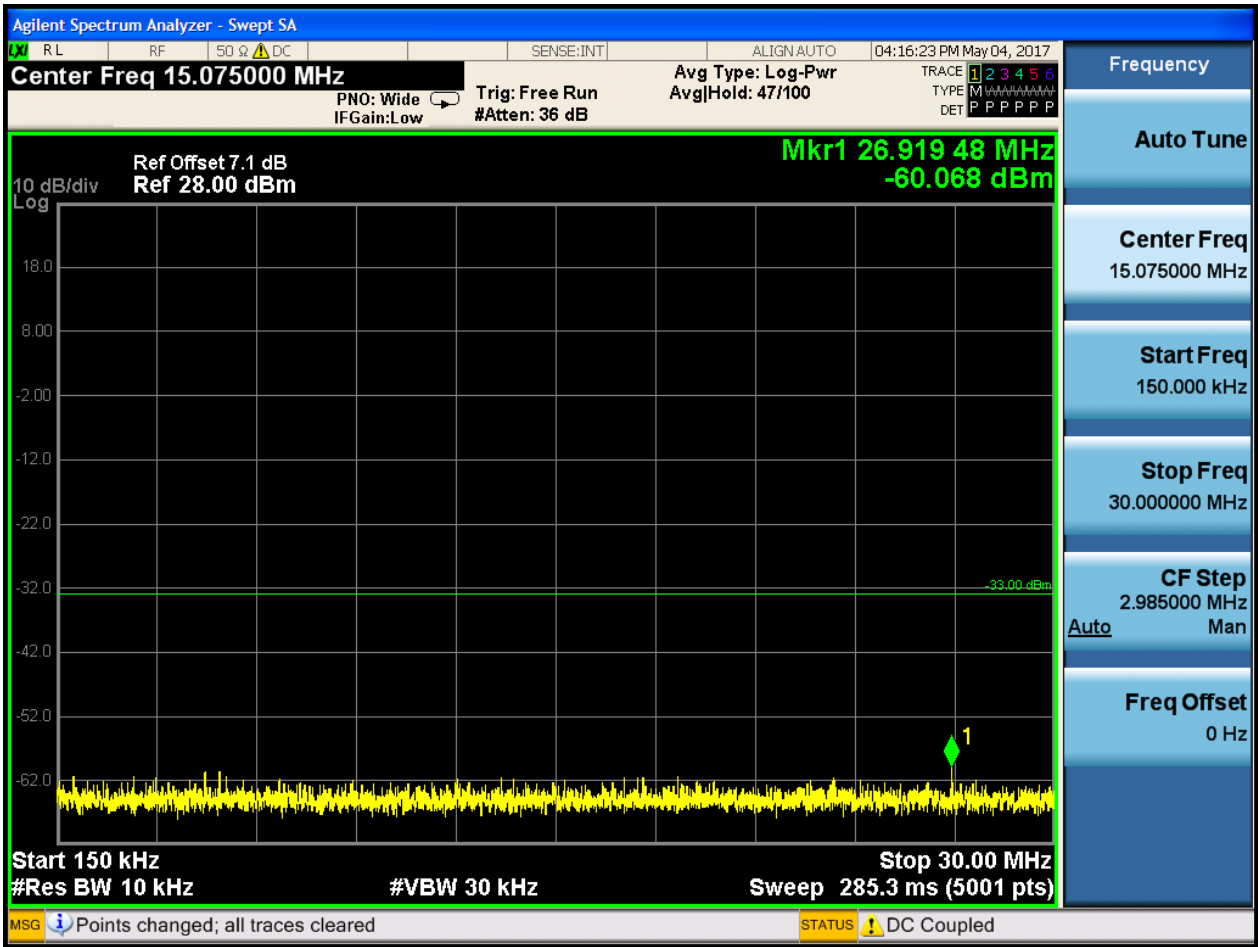


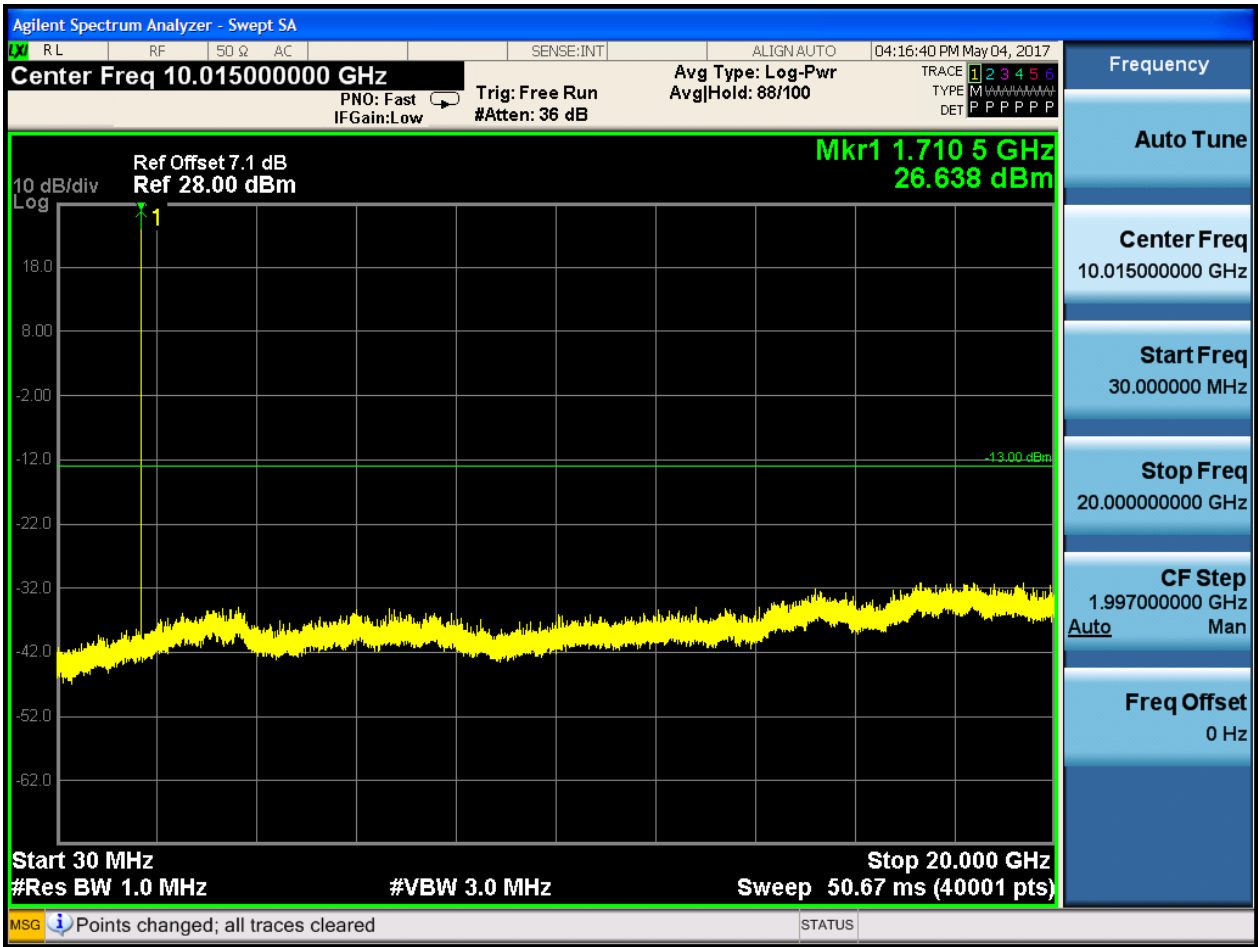
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



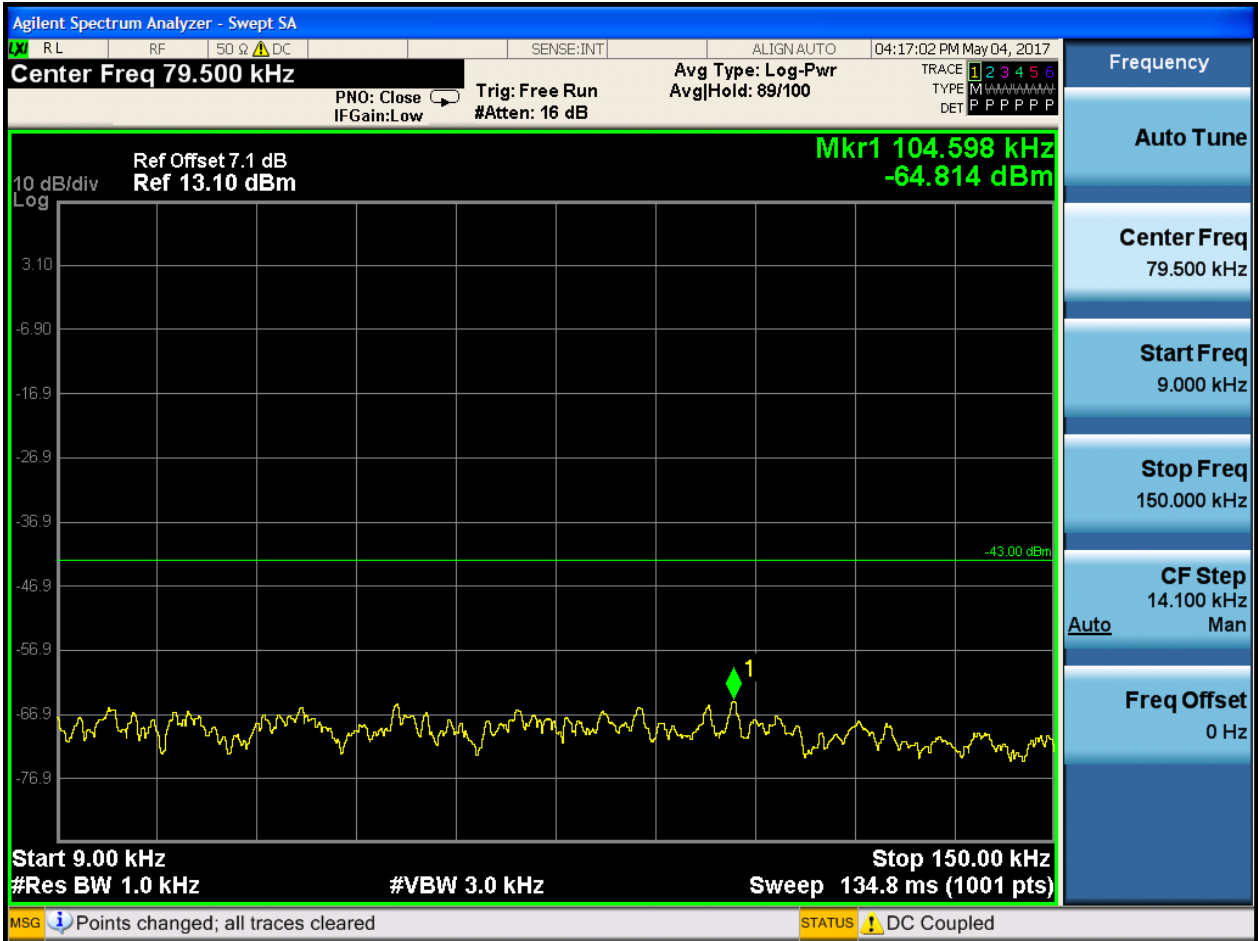




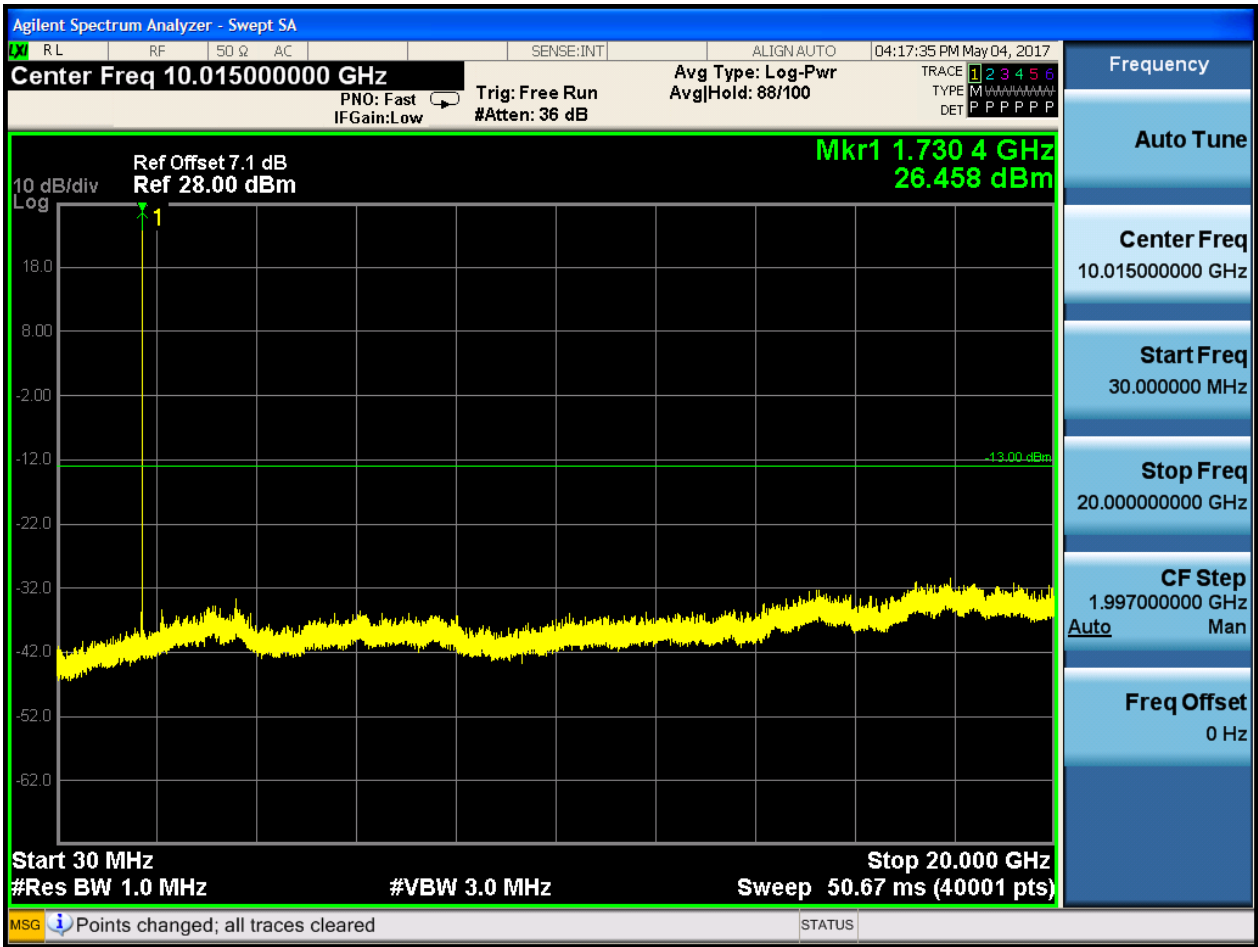


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



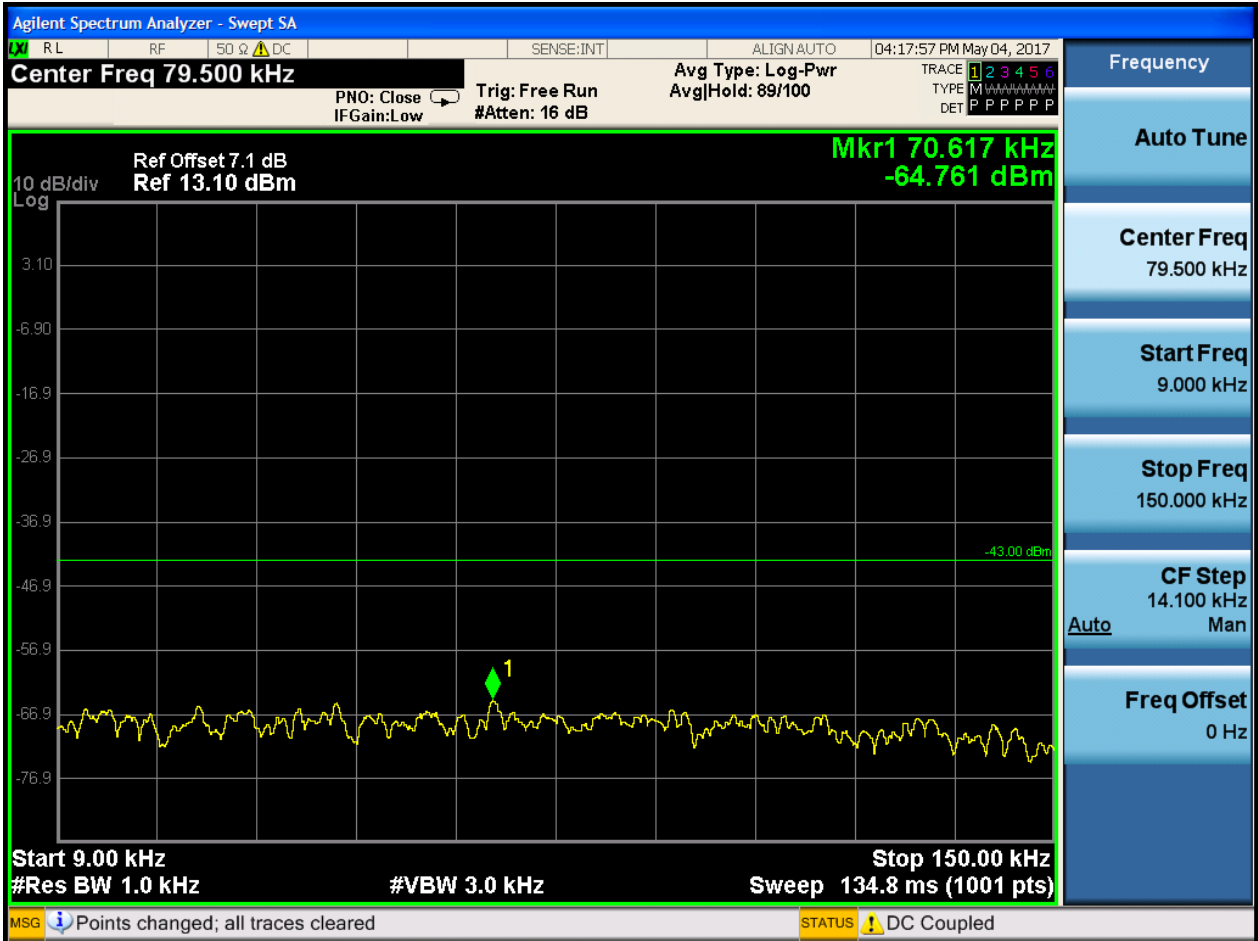




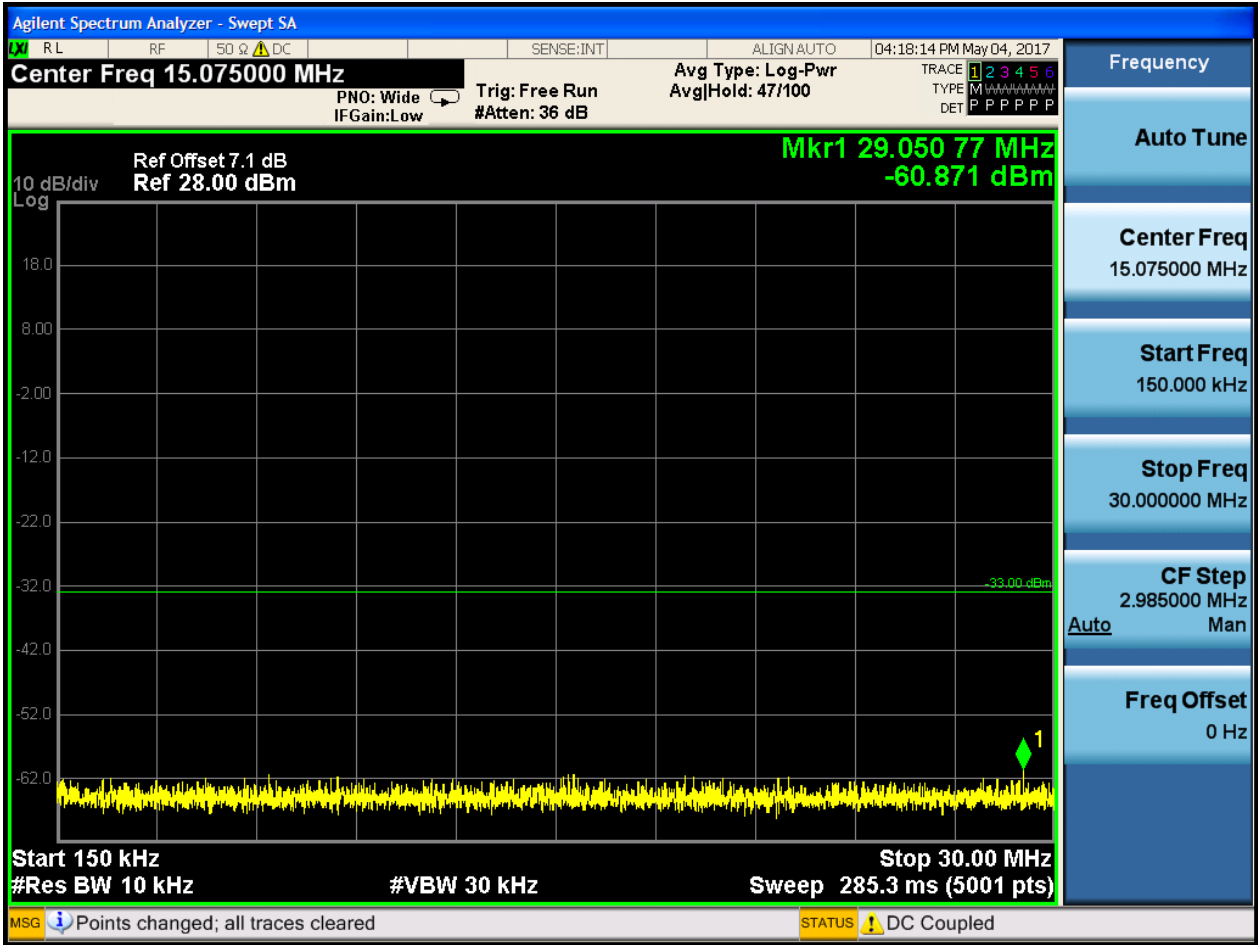


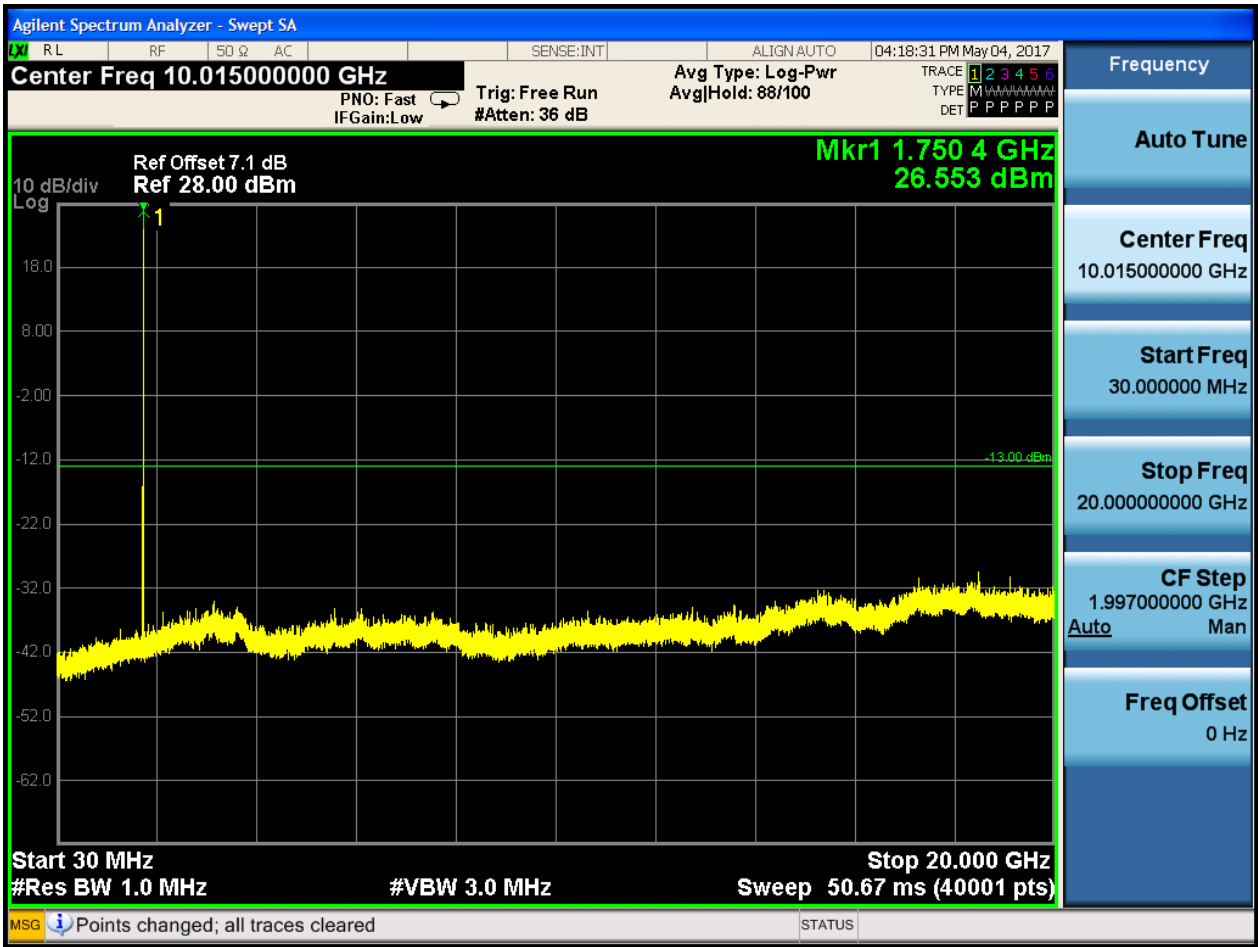
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







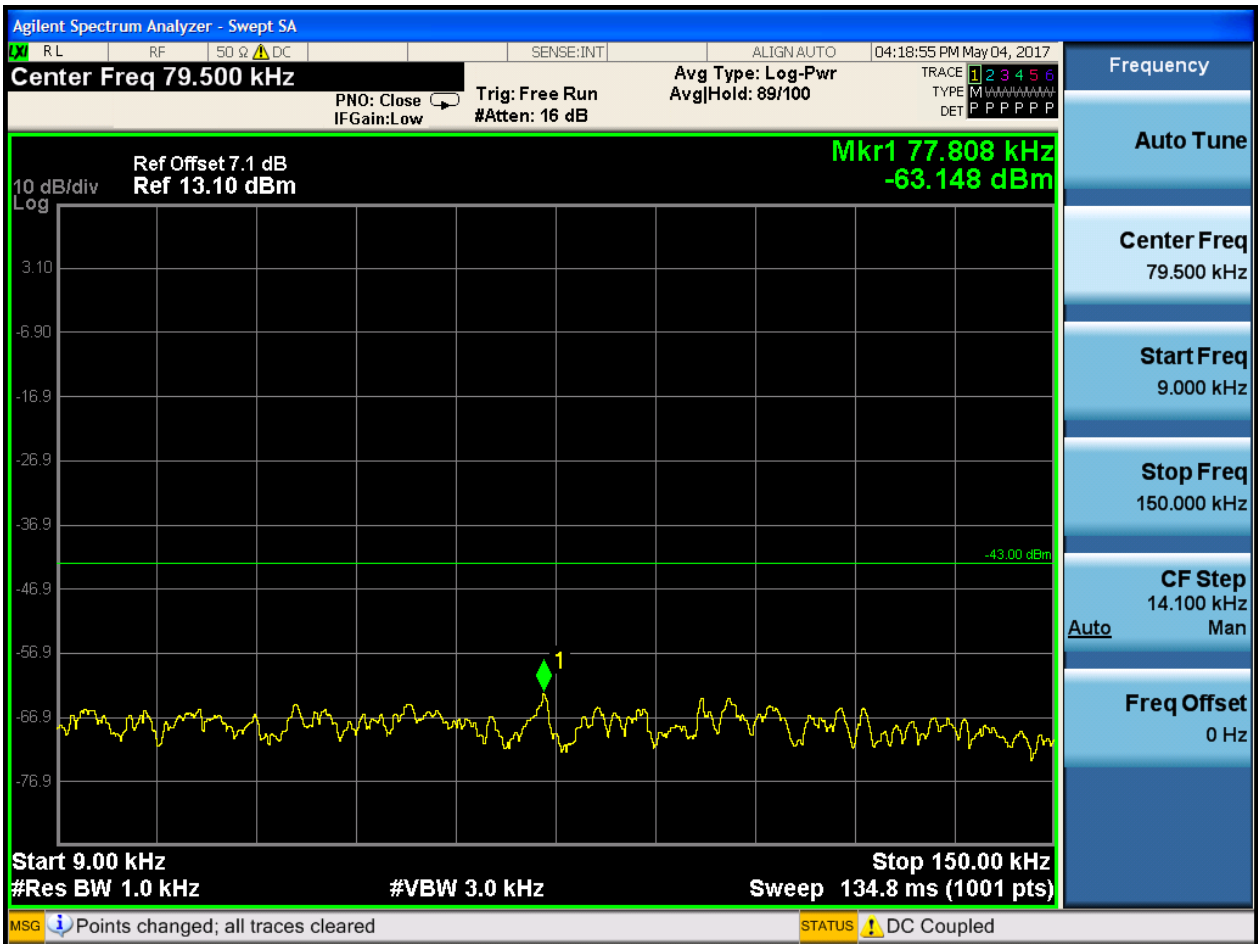


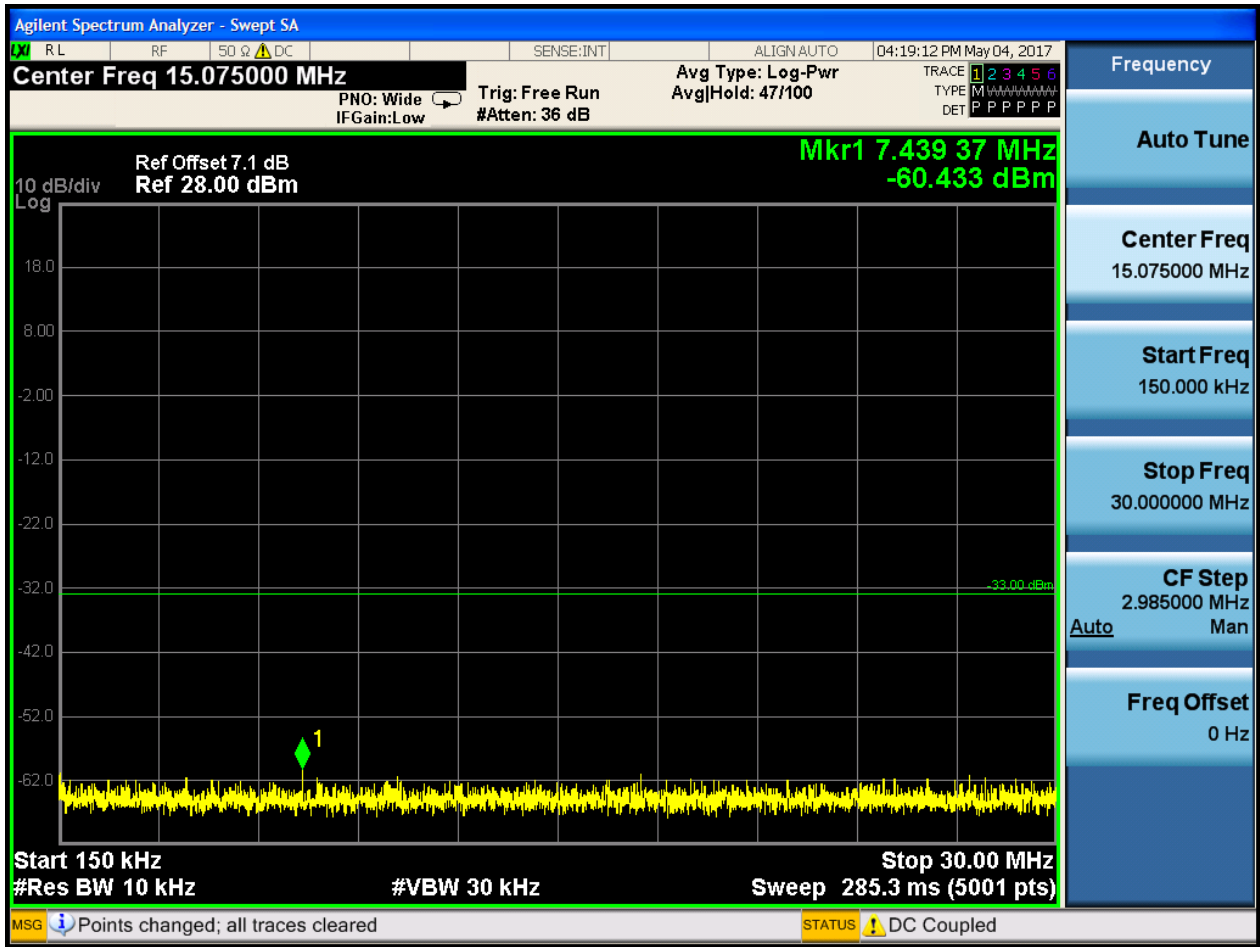


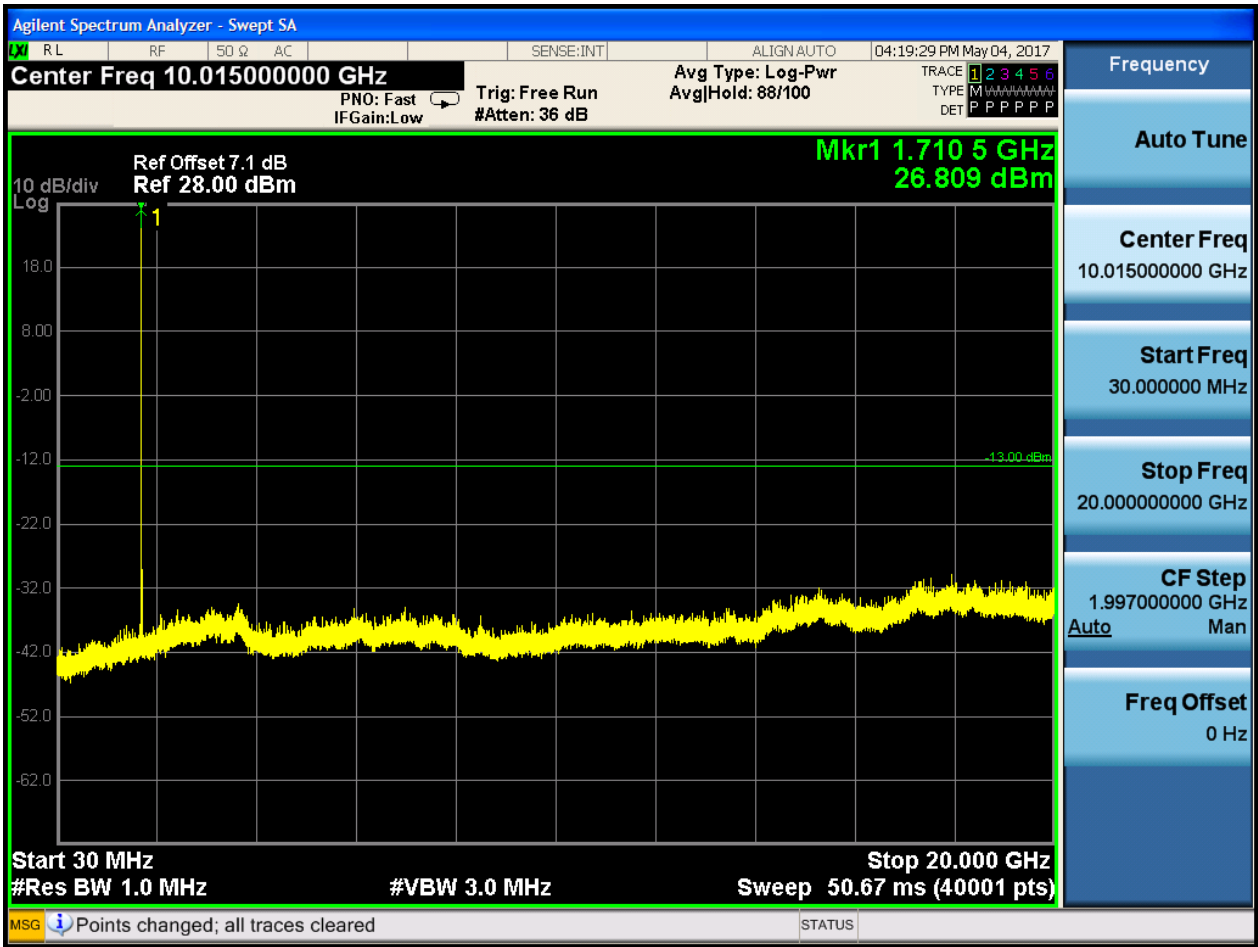
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



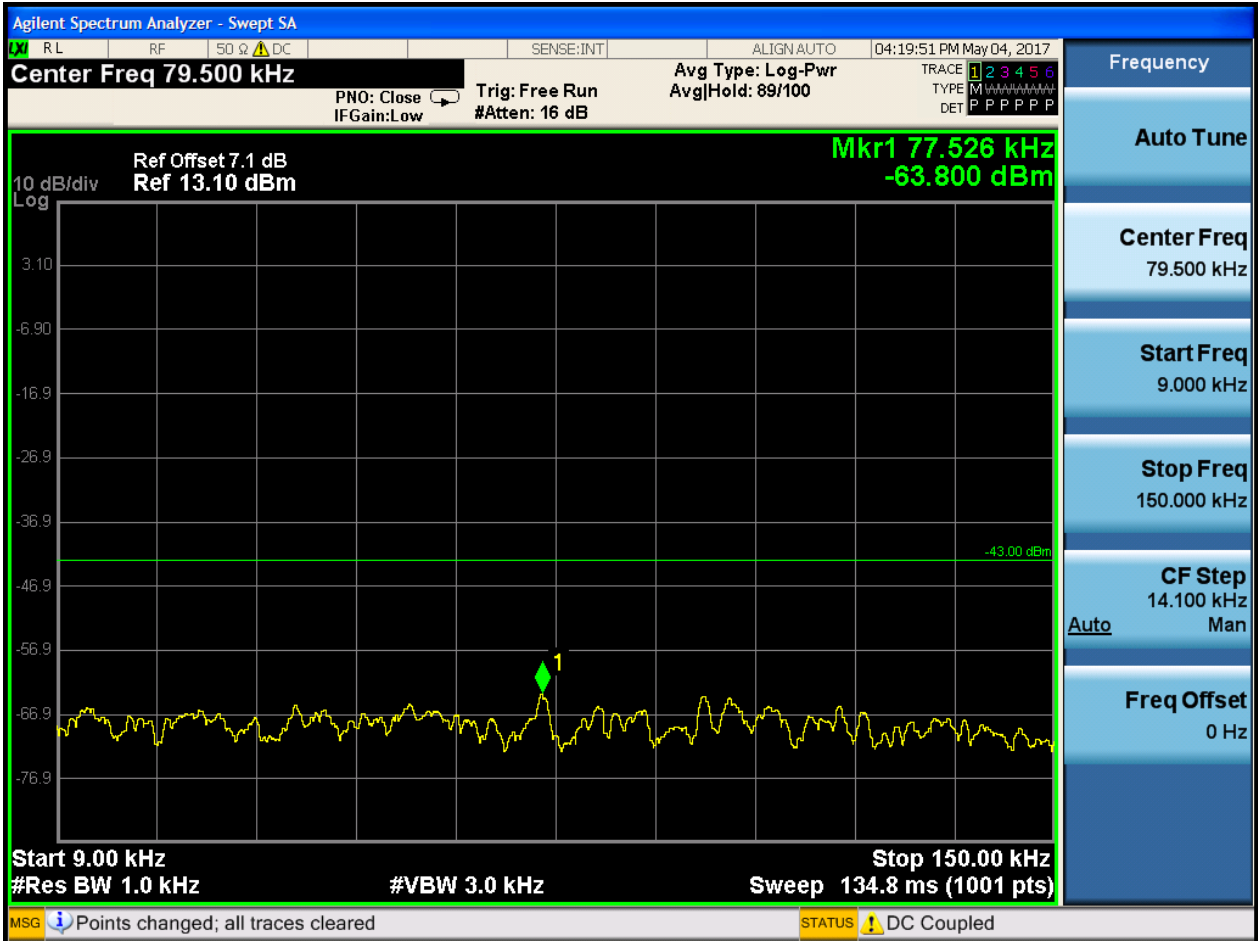


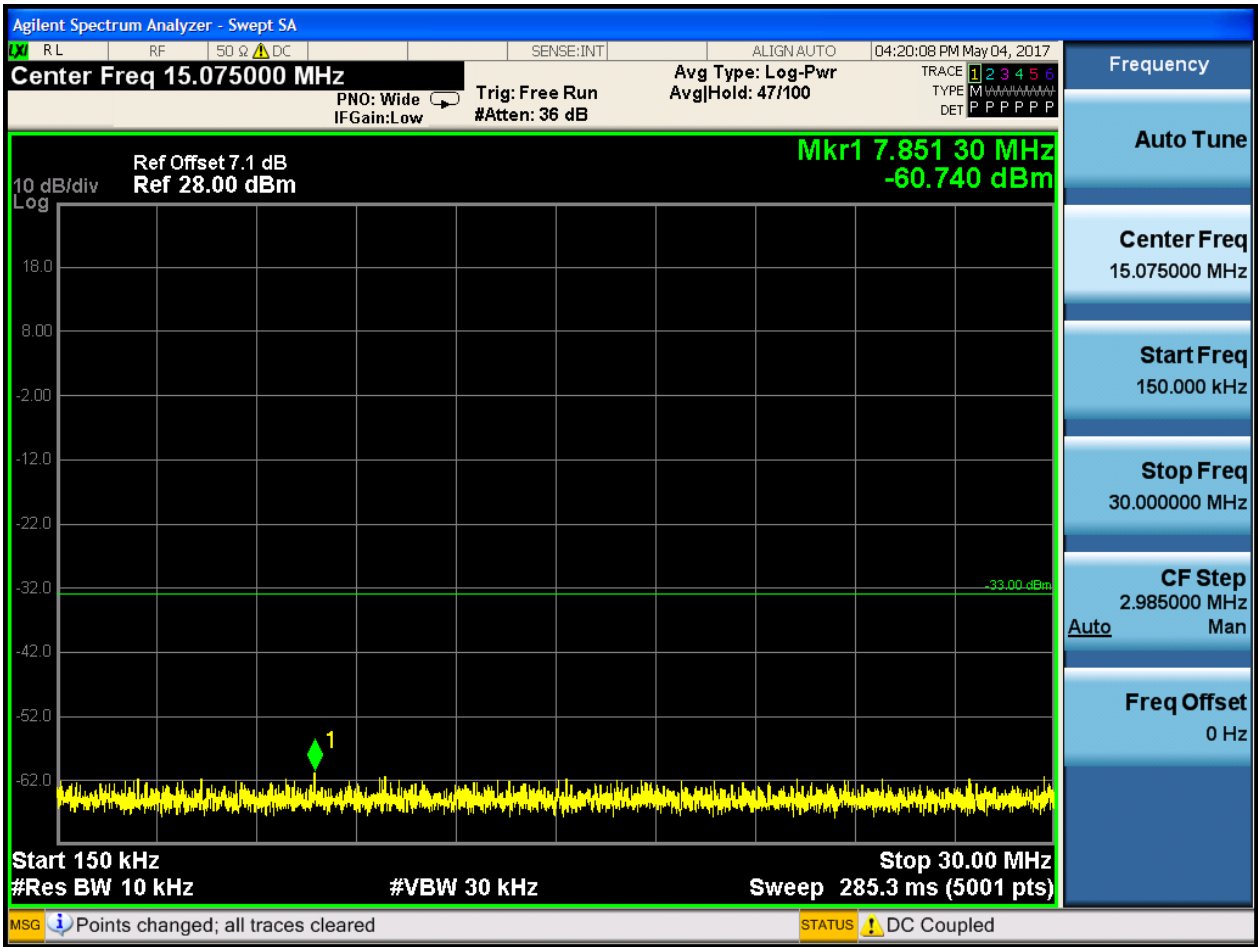


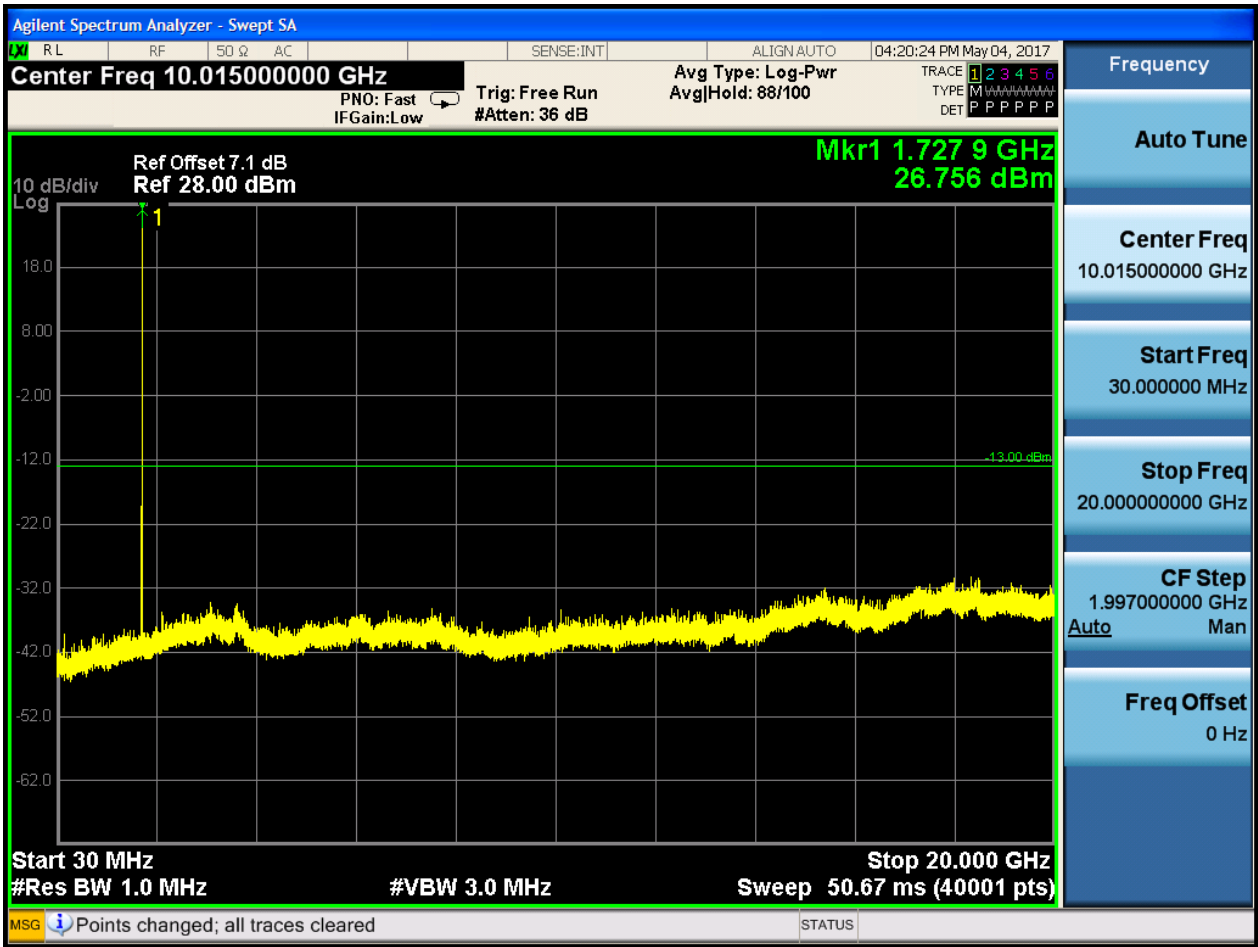


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0





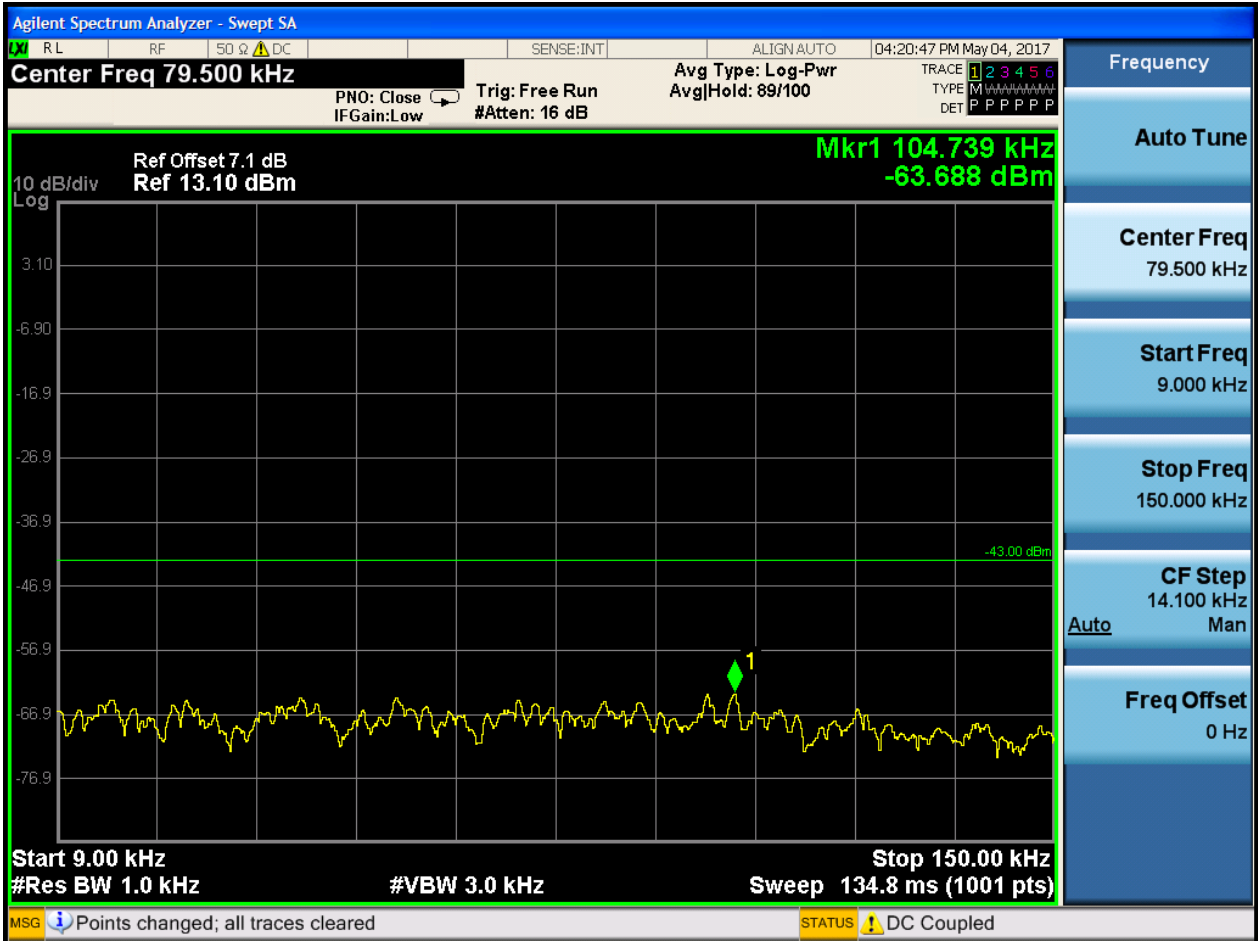




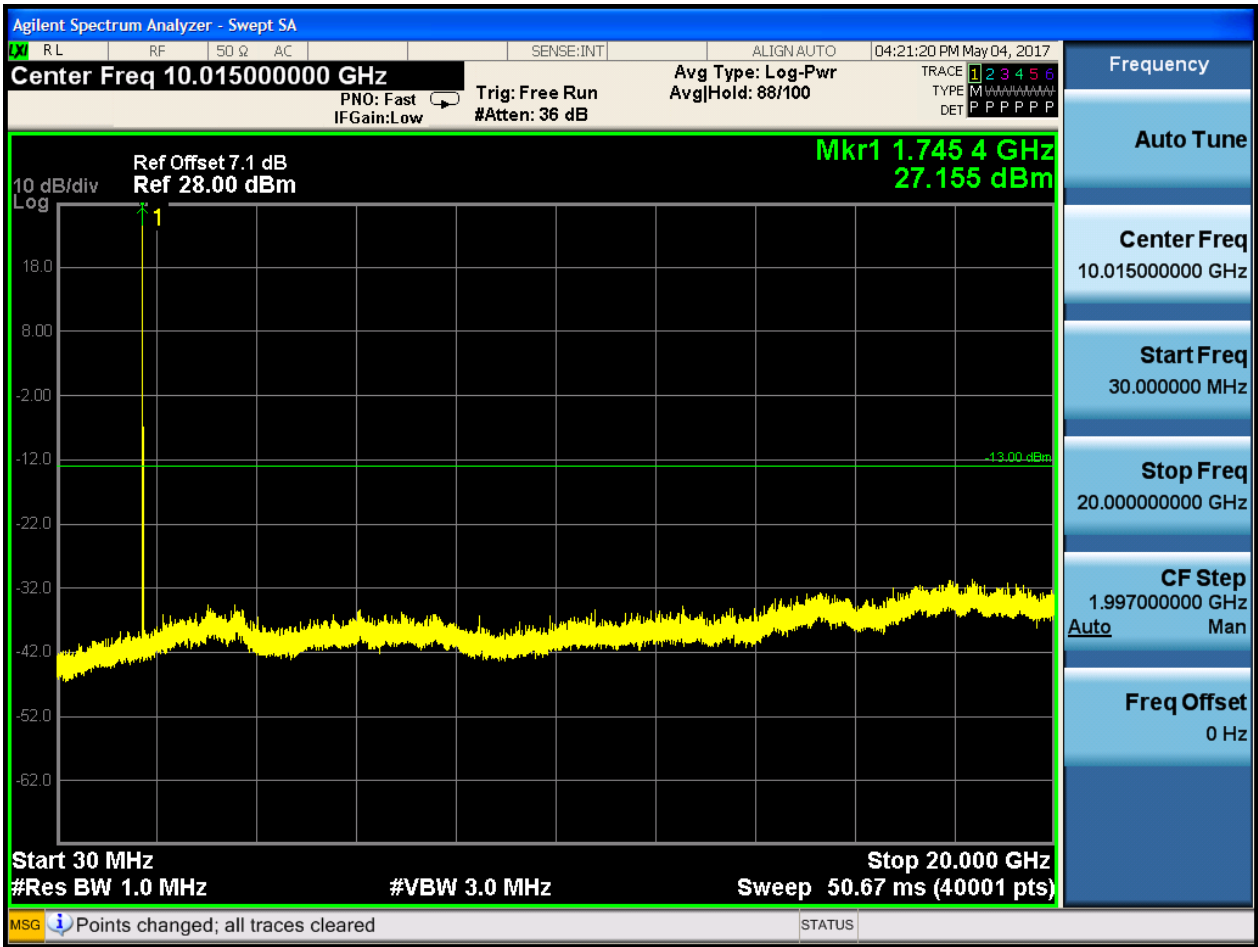


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0





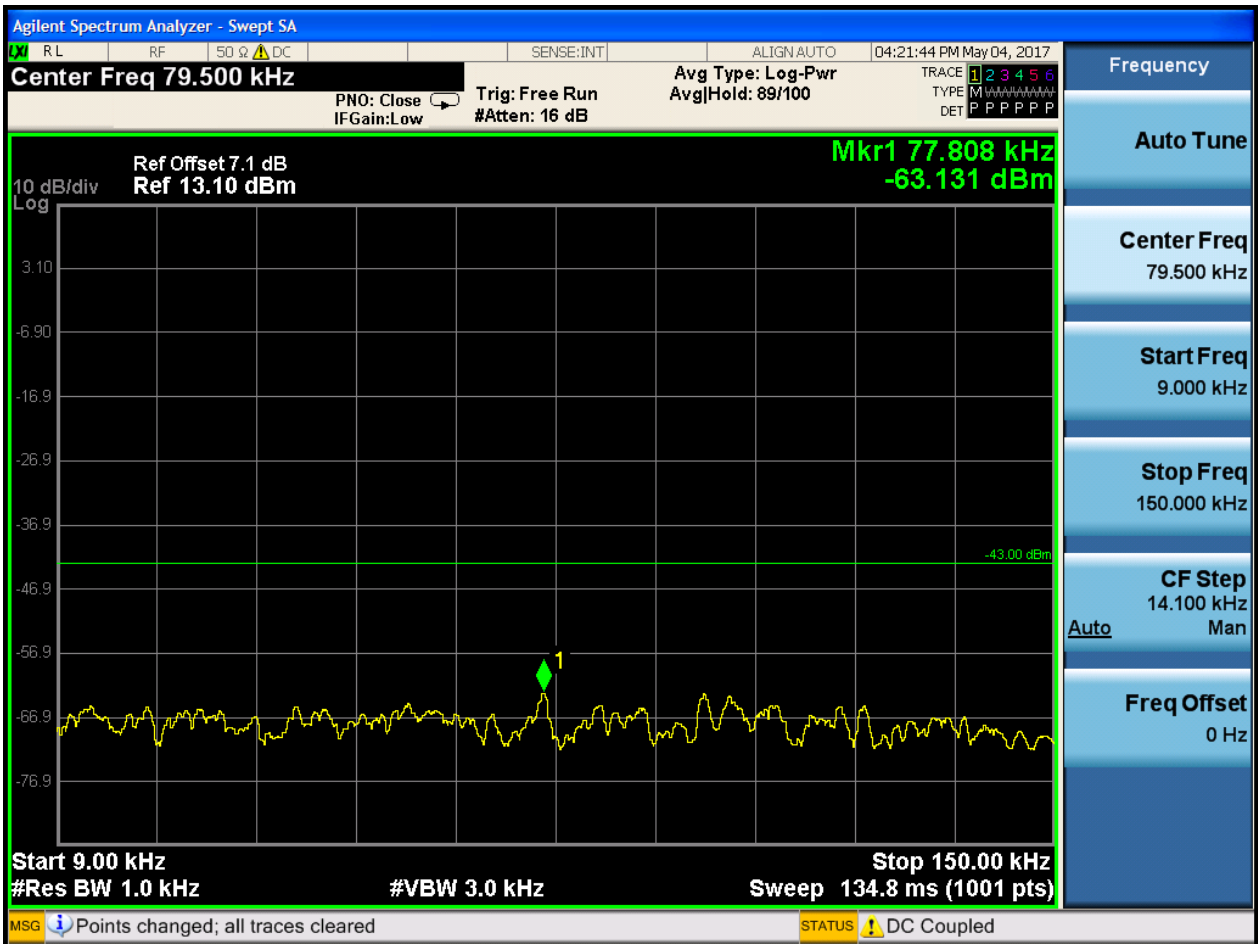


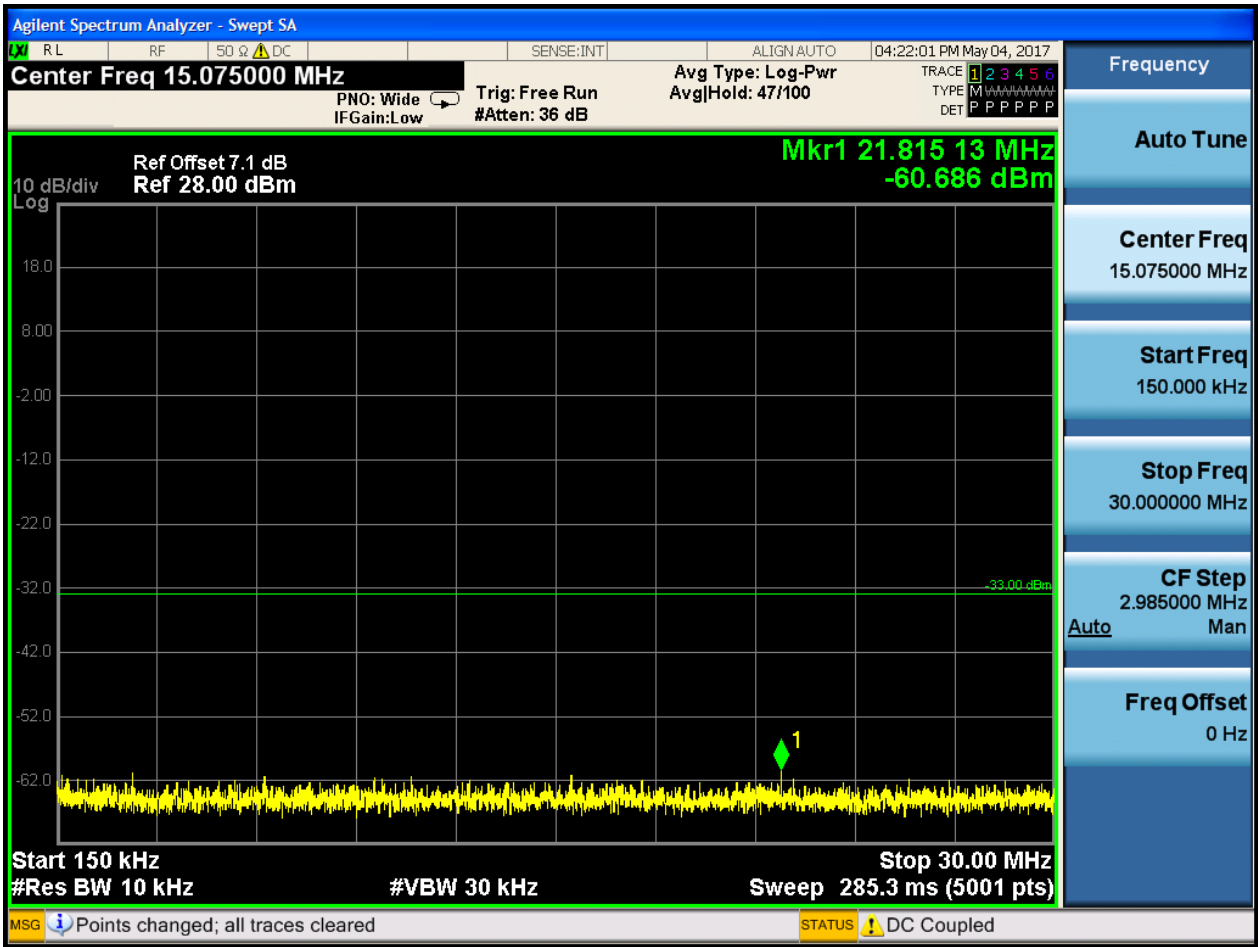


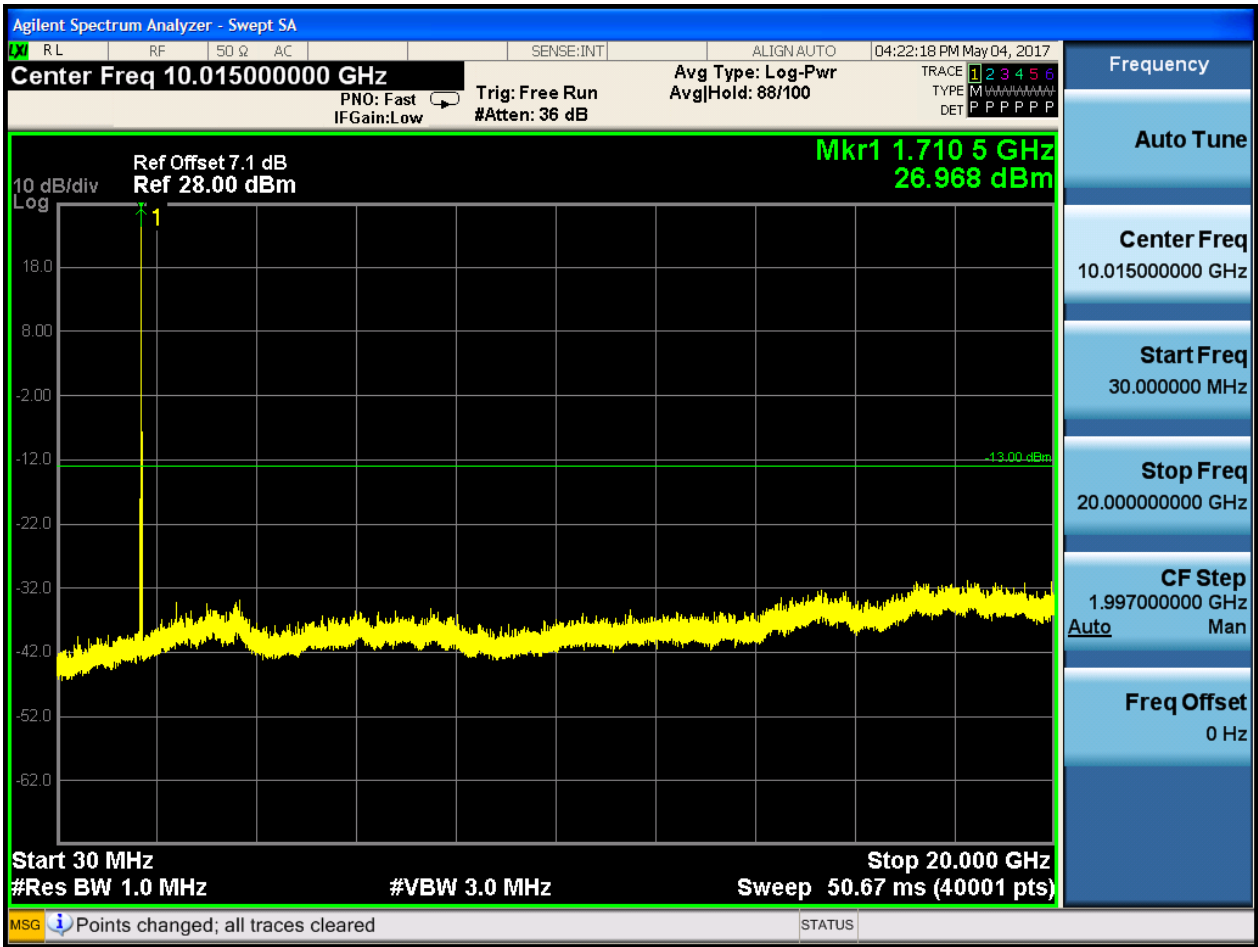
6.1.1.2.5 Test Bandwidth = 15

6.1.1.2.5.1 Test Channel = LCH

6.1.1.2.5.1.1 Test RB = RB1#0



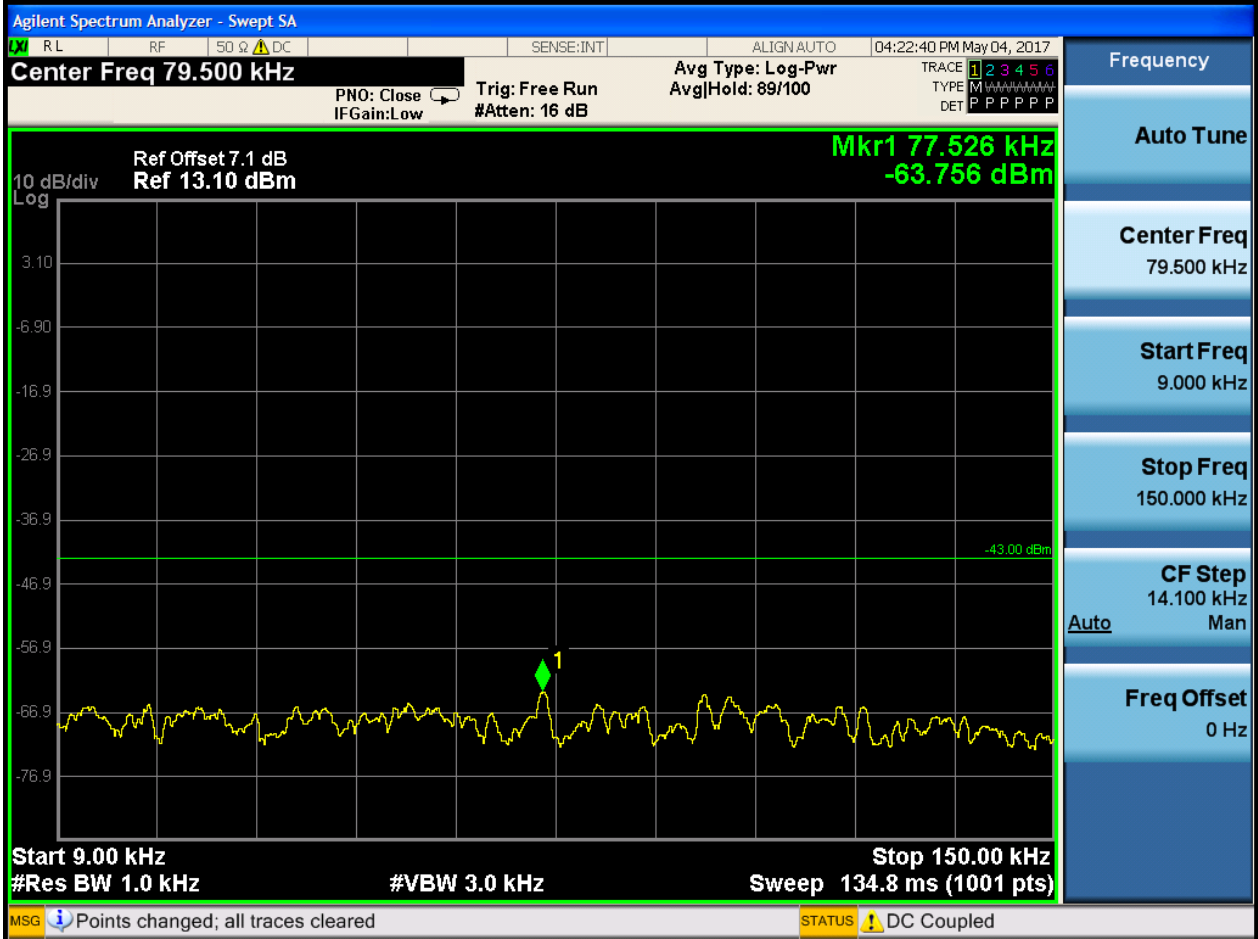


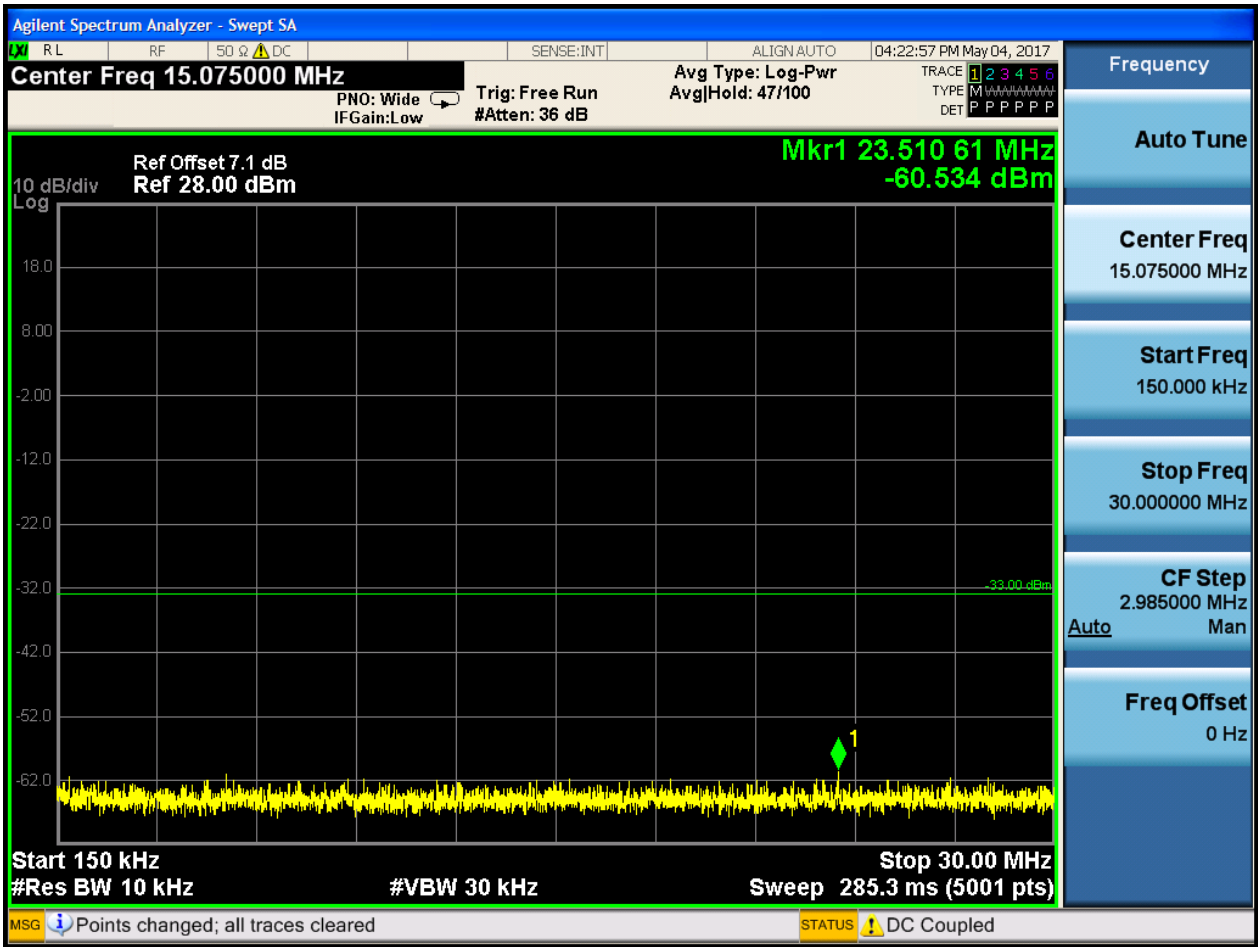




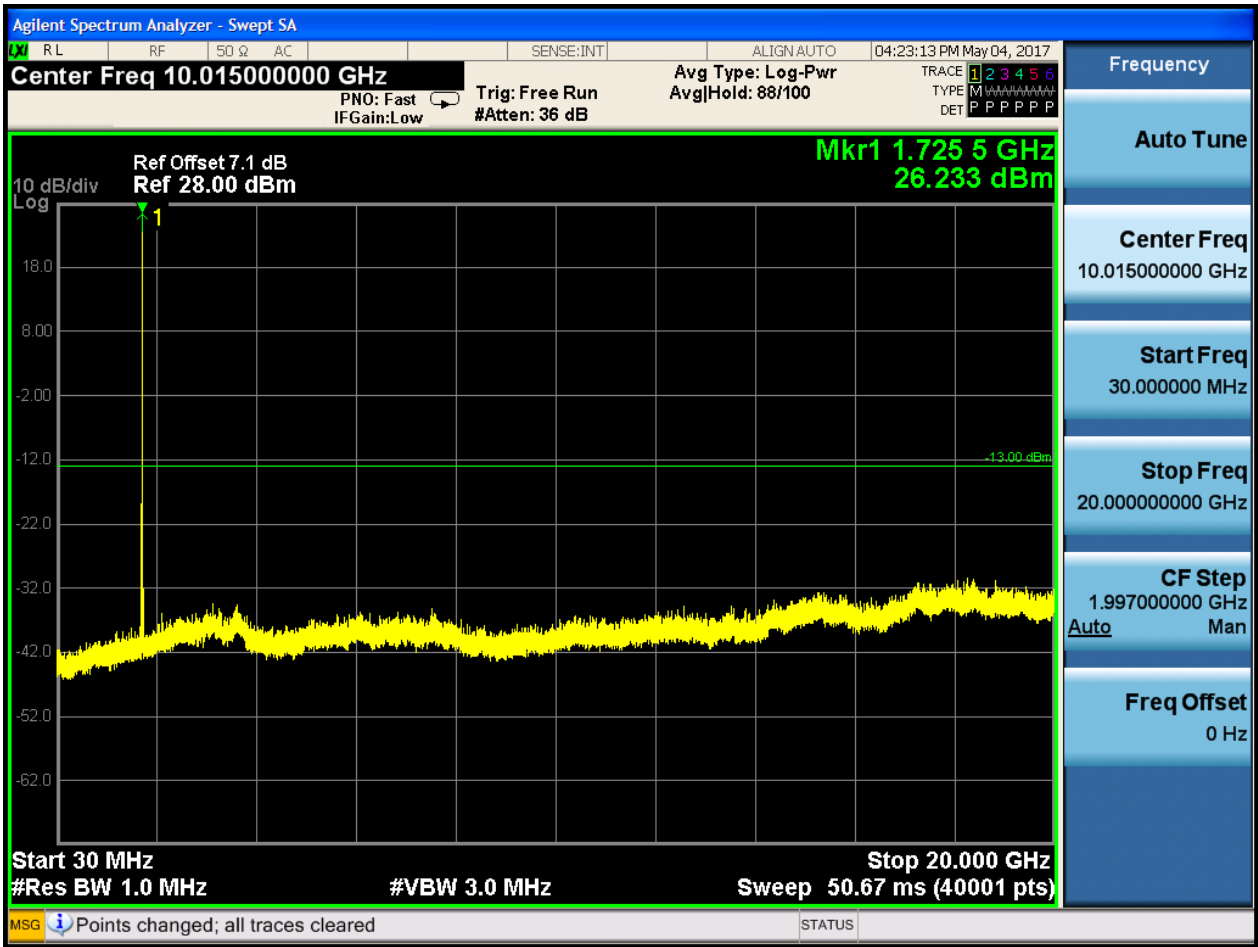
6.1.1.2.5.2 Test Channel = MCH

6.1.1.2.5.2.1 Test RB = RB1#0





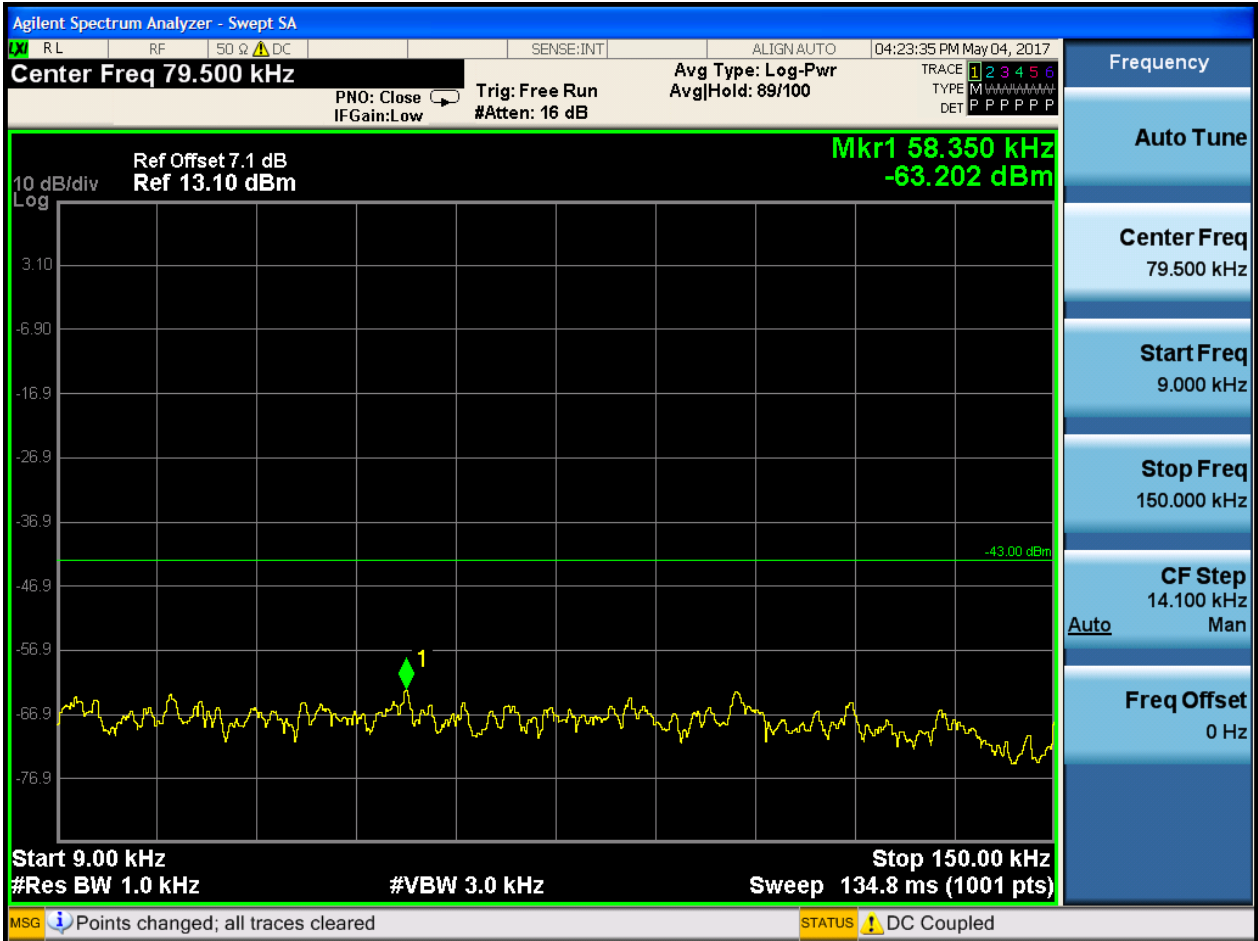


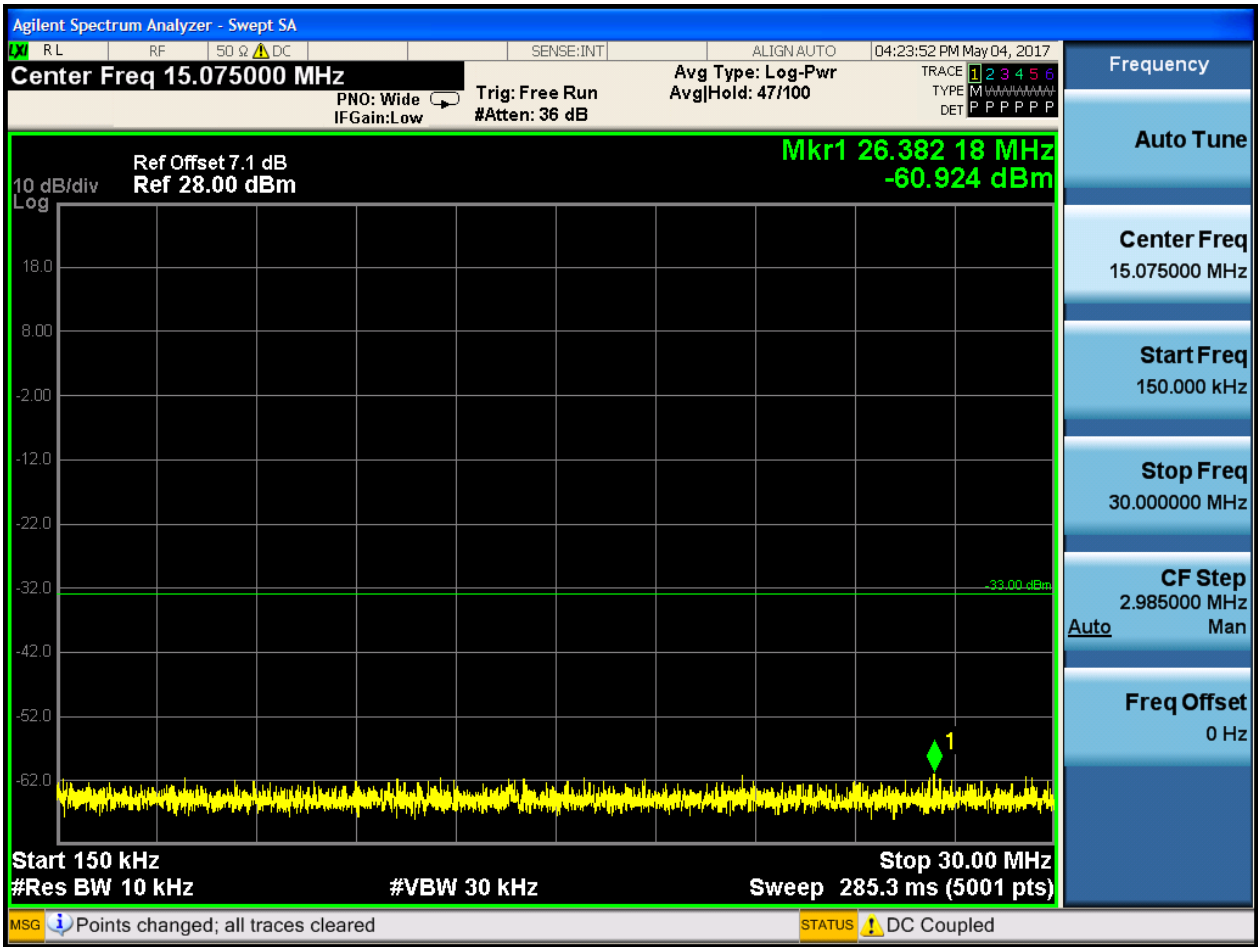


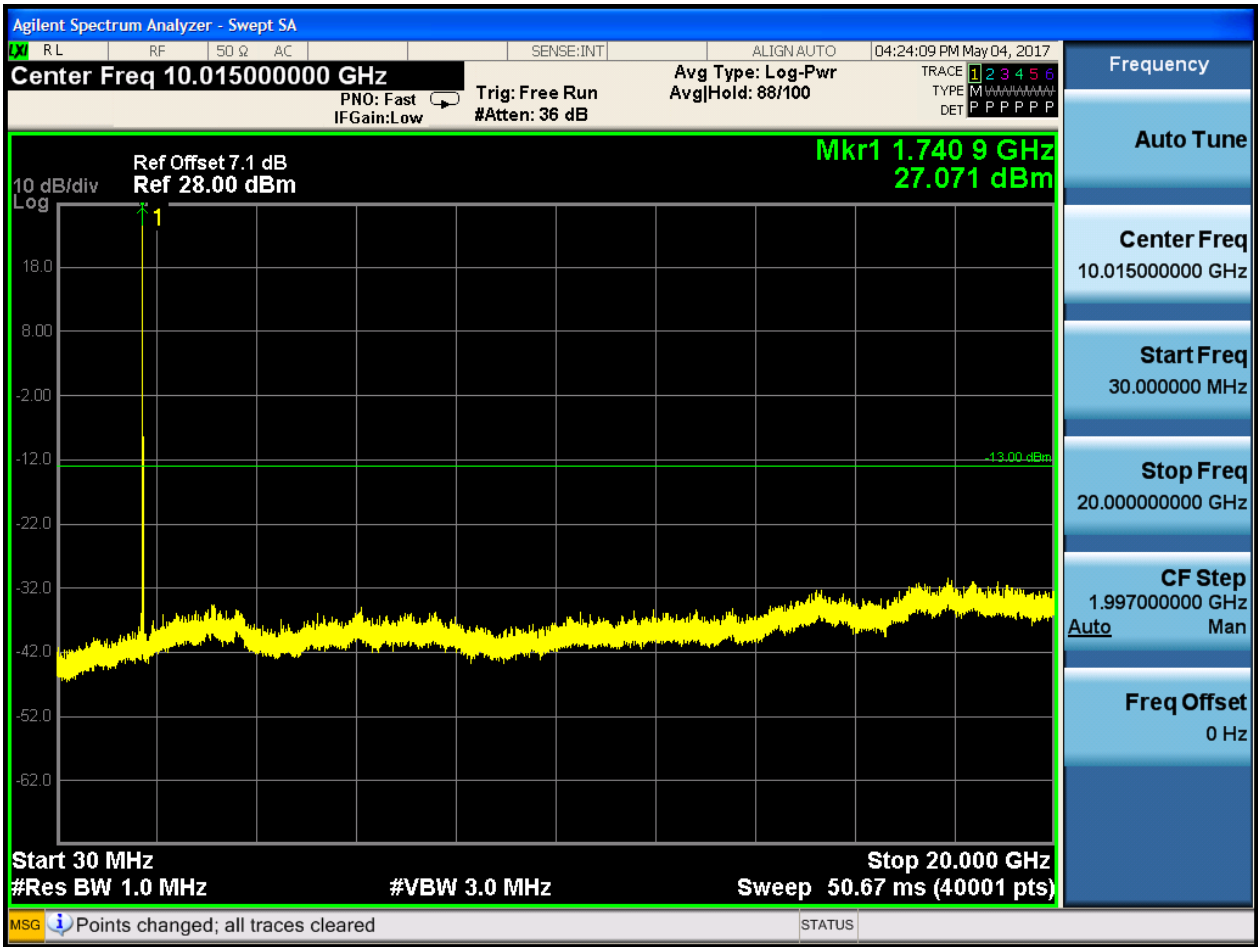


6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0





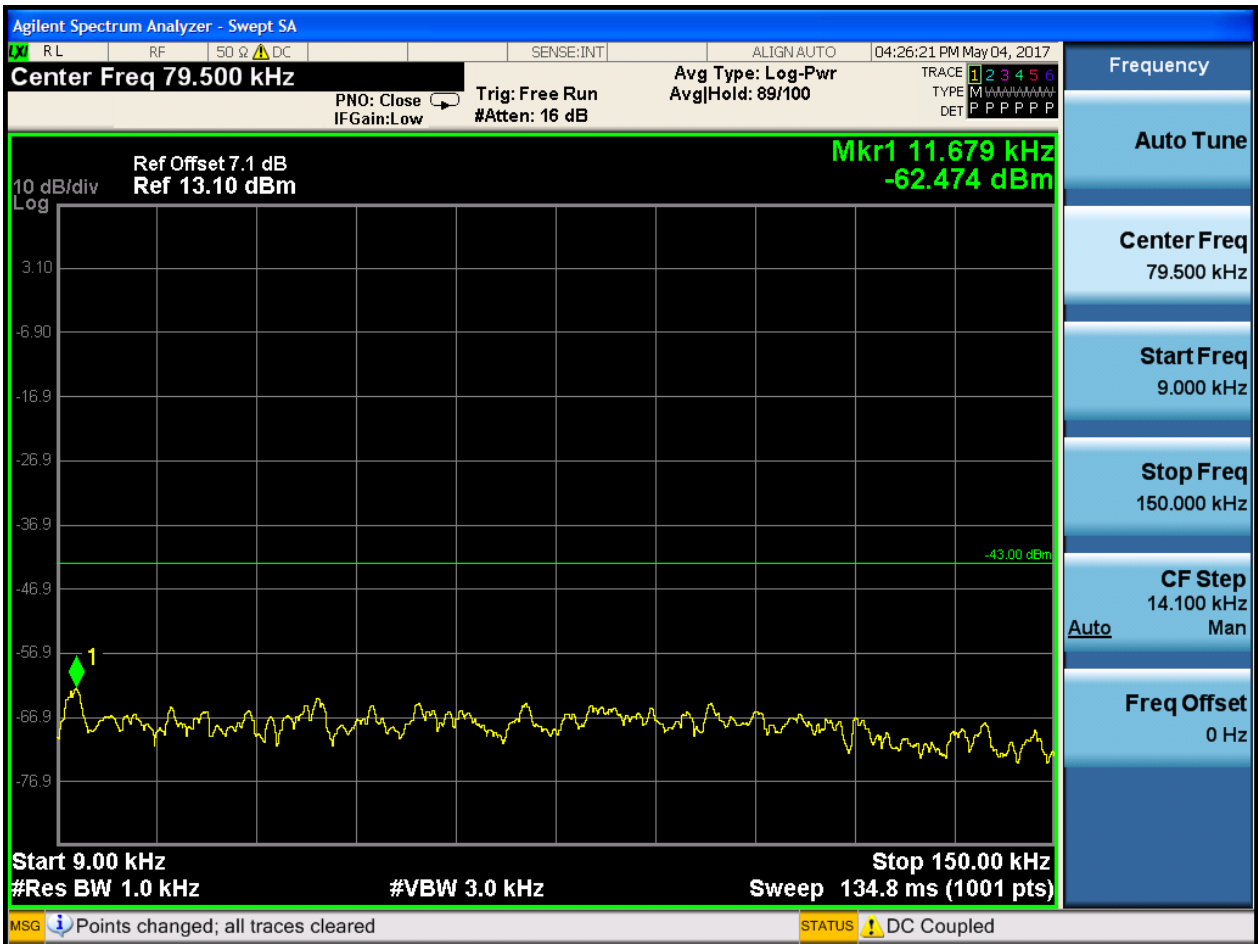




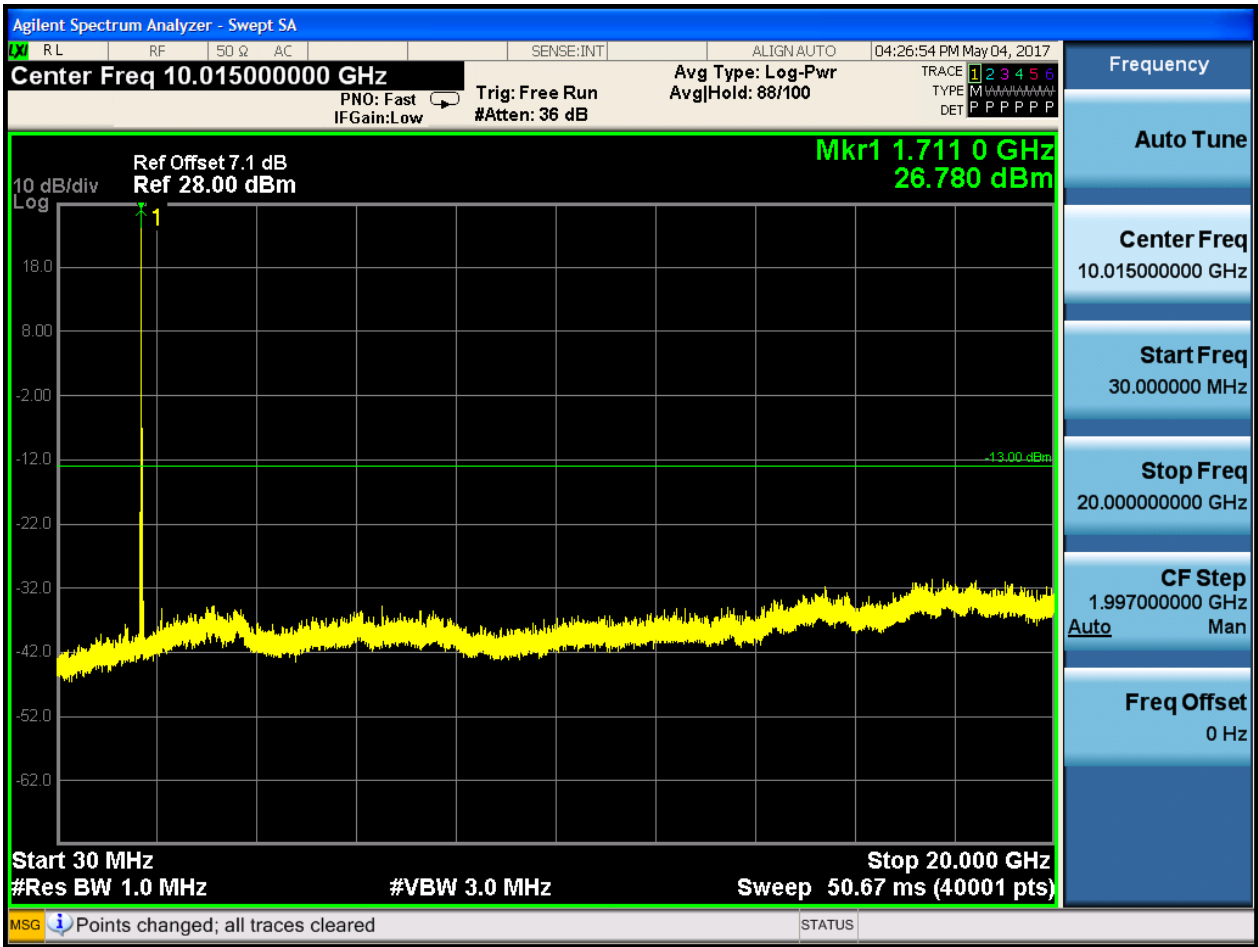
6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0



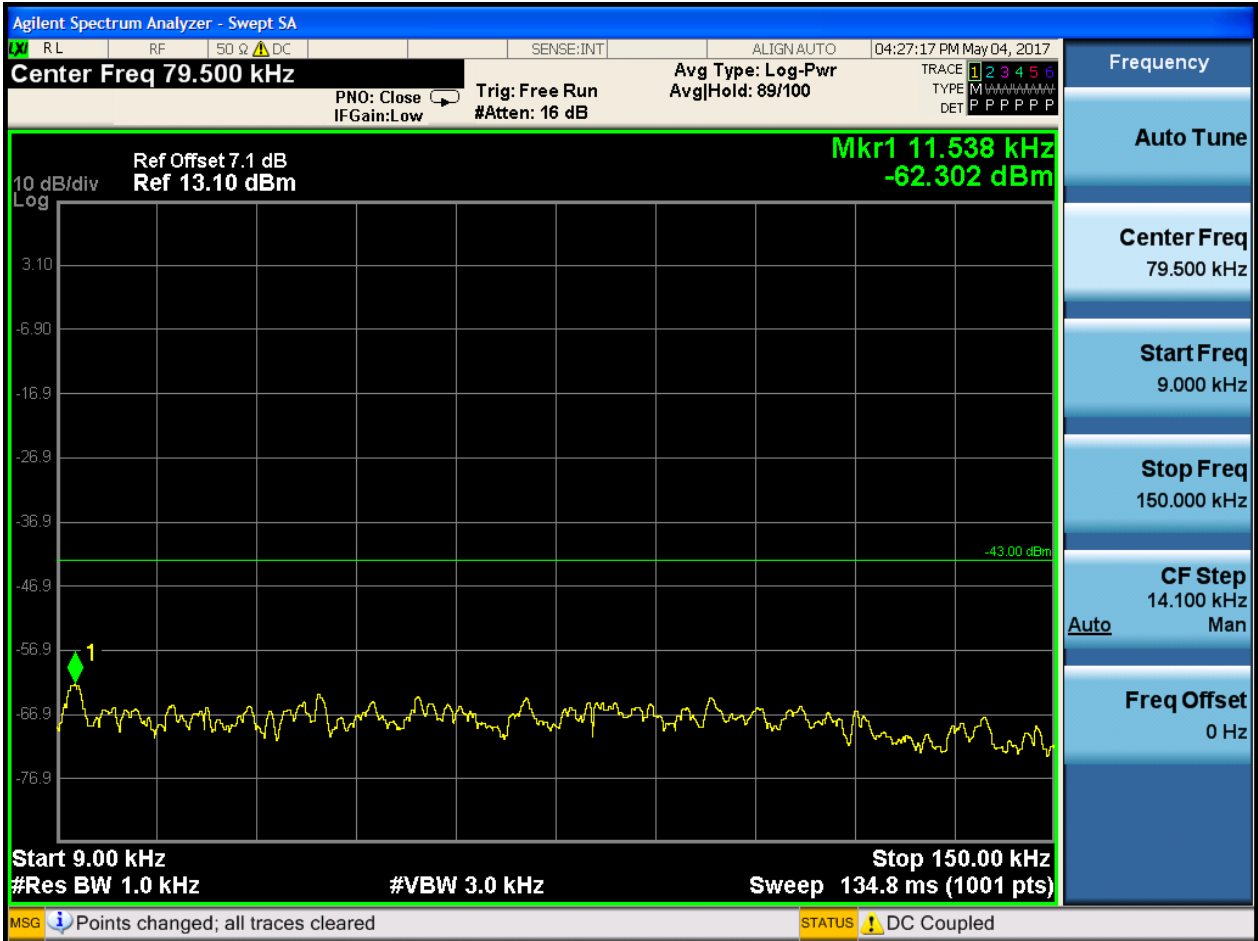




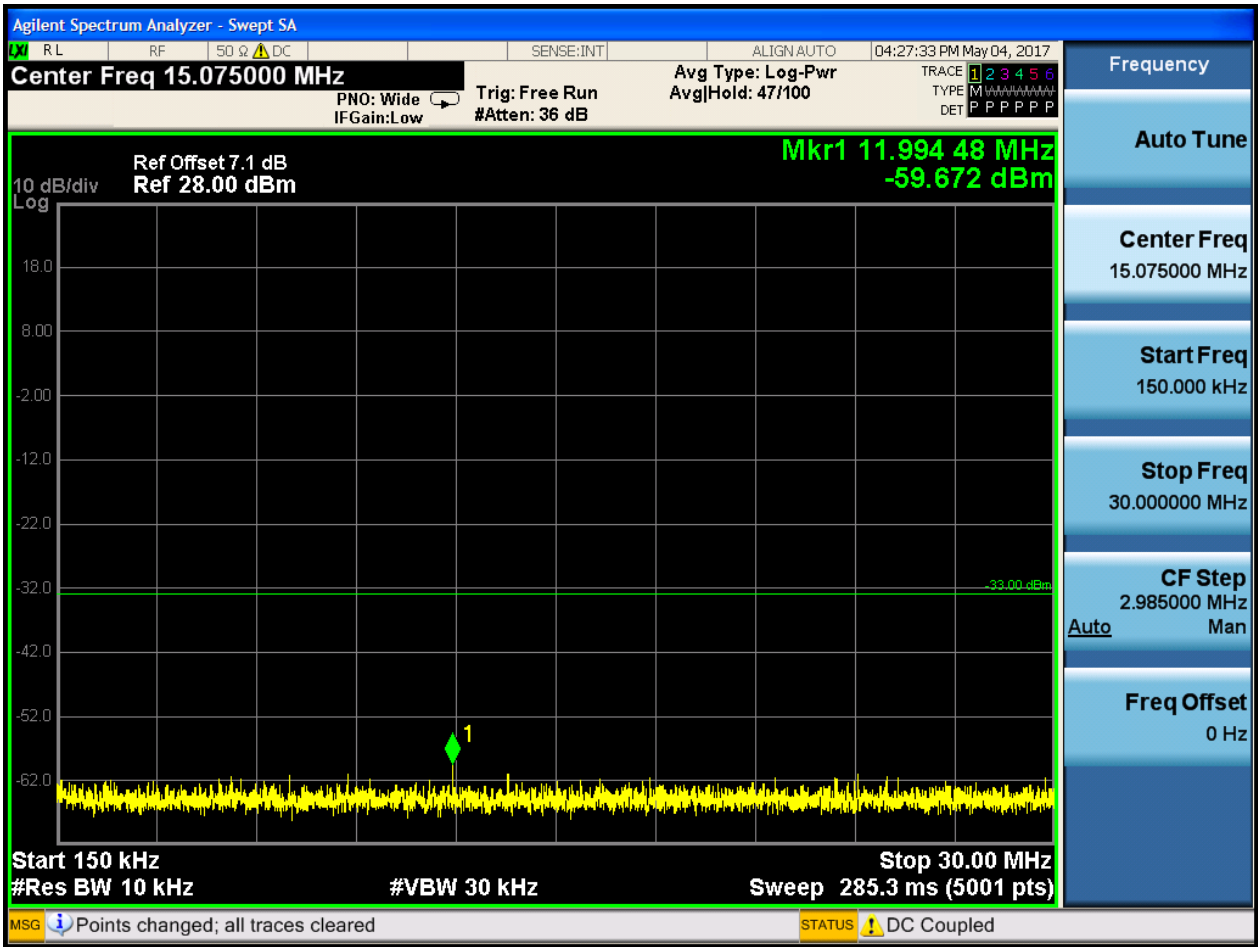


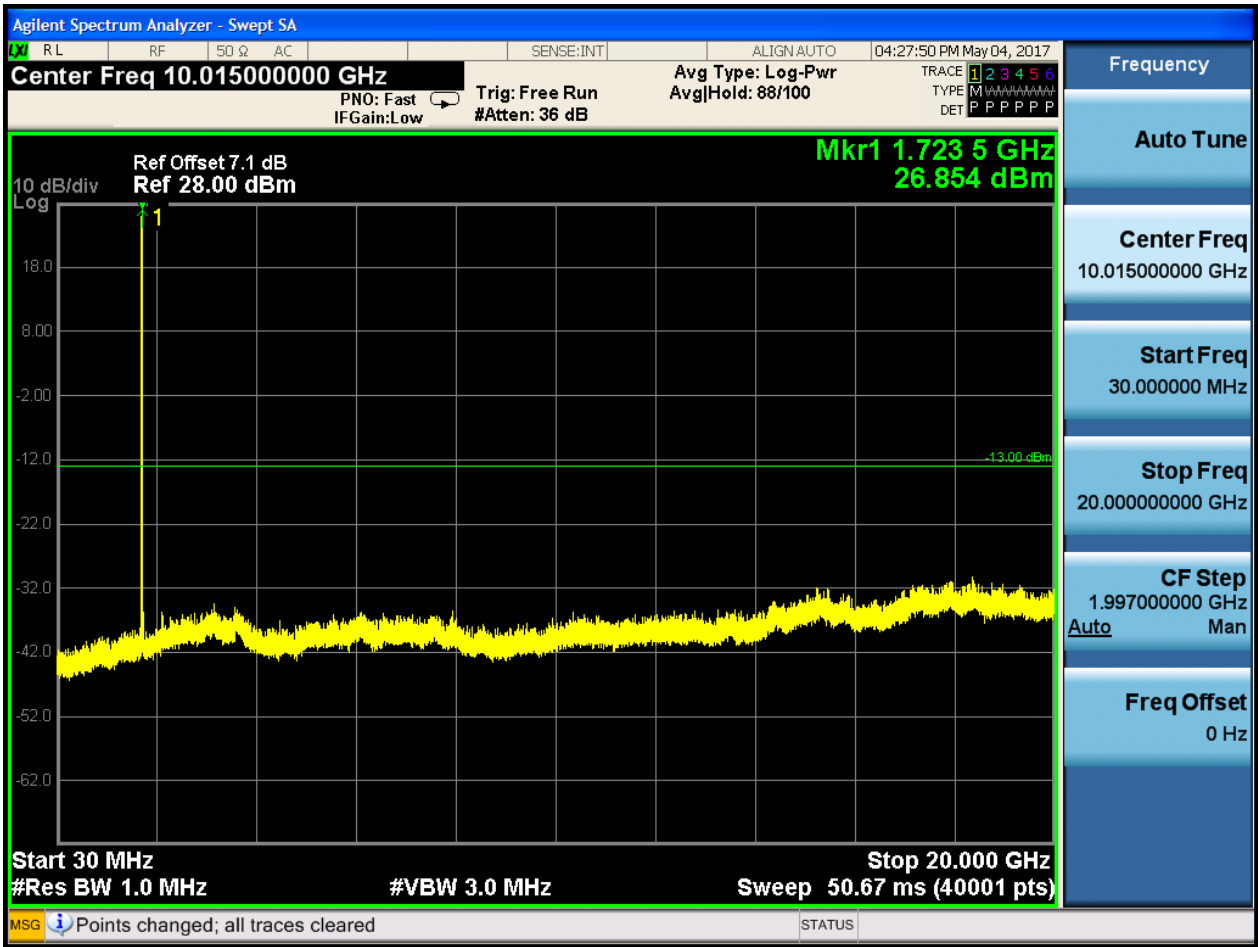
6.1.1.2.6.2 Test Channel = MCH

6.1.1.2.6.2.1 Test RB = RB1#0





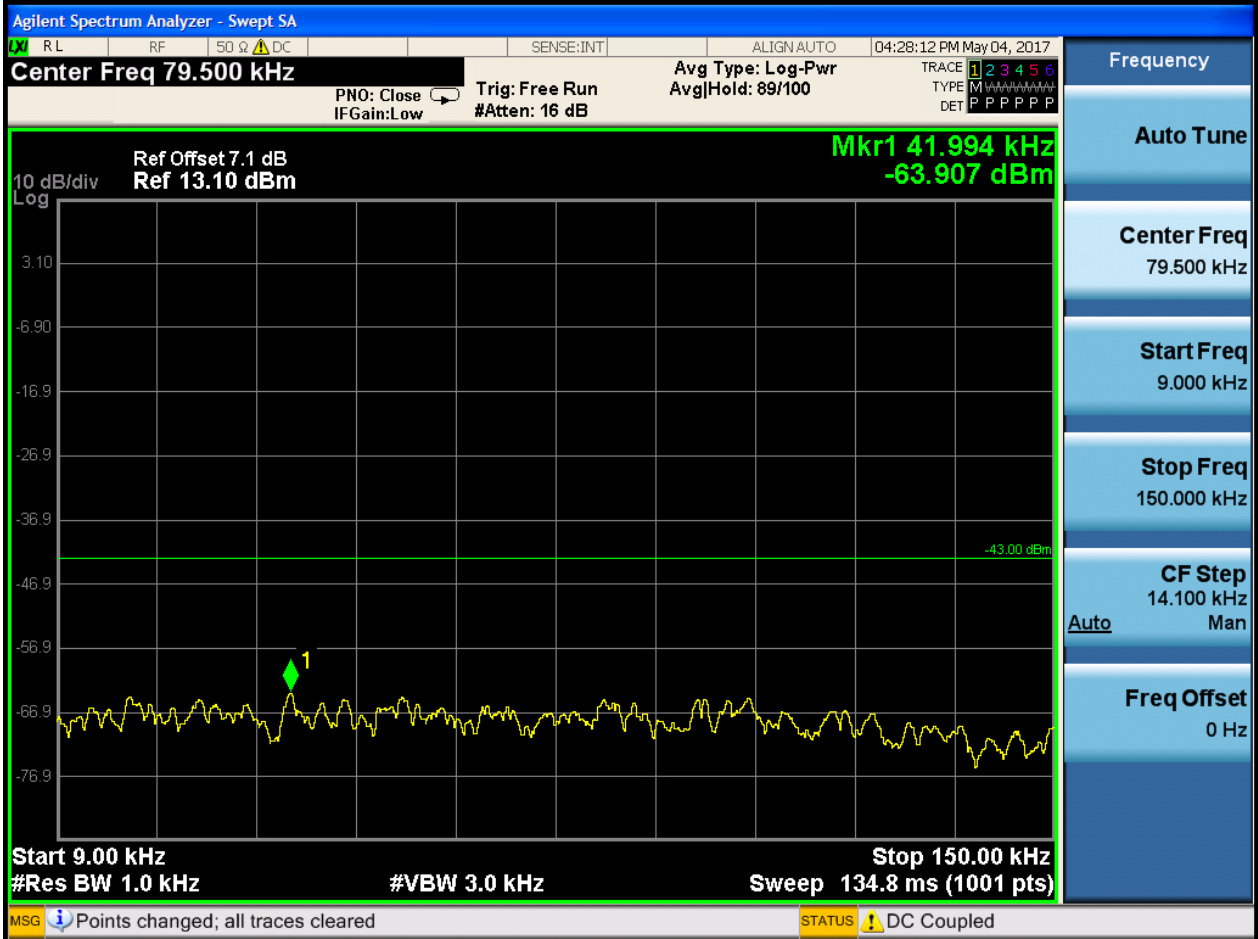


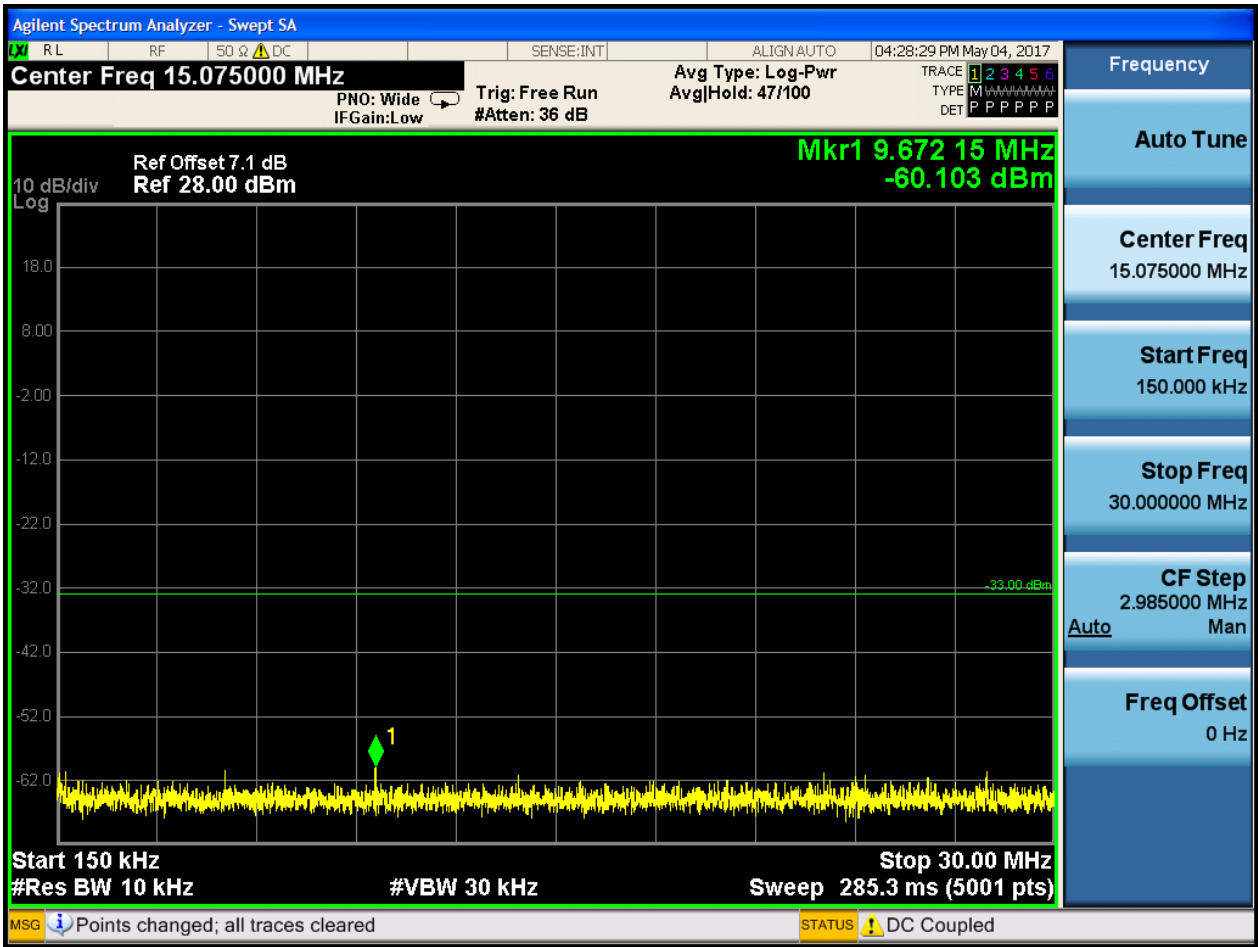


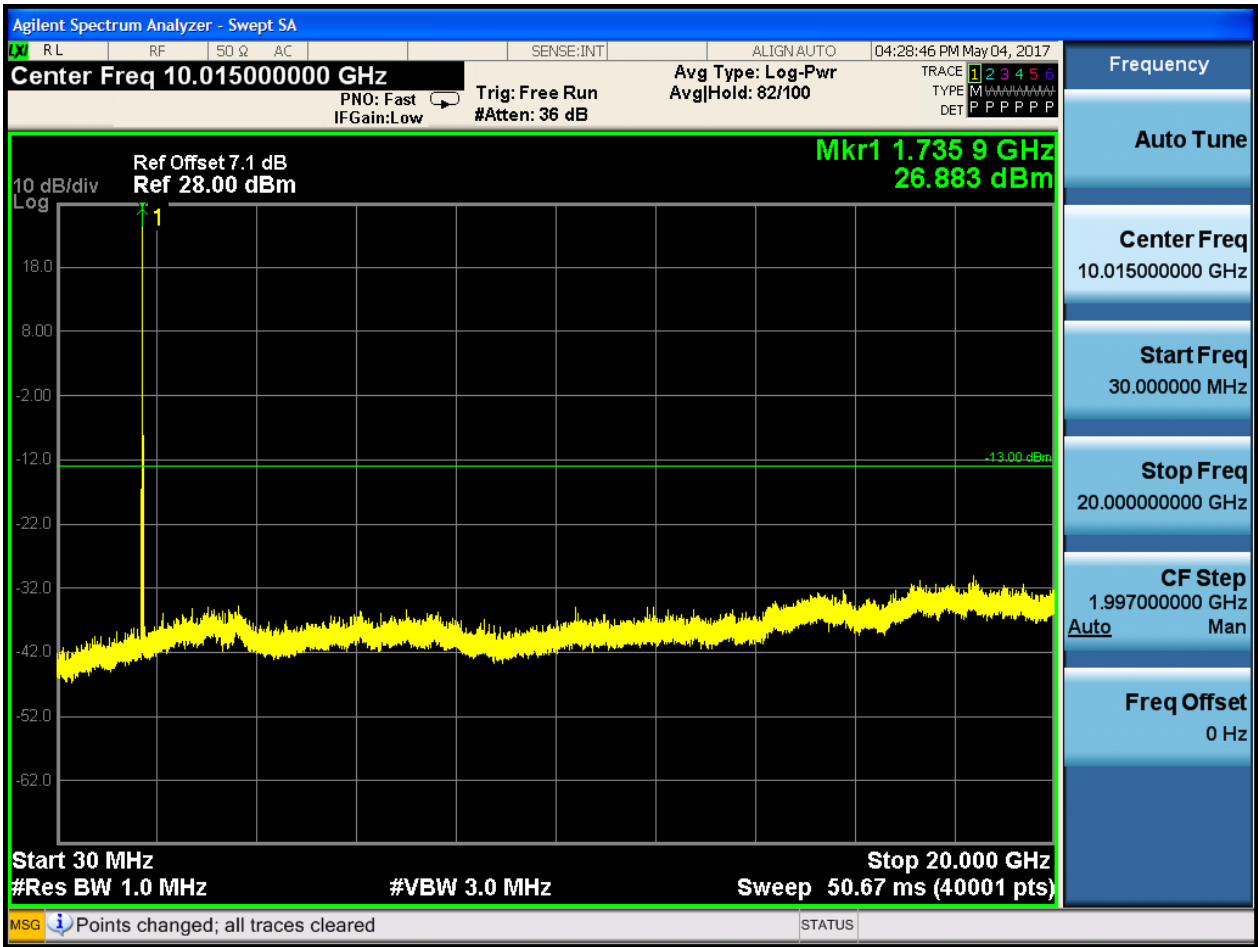


6.1.1.2.6.3 Test Channel = HCH

6.1.1.2.6.3.1 Test RB = RB1#0









## 7Appendix\_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

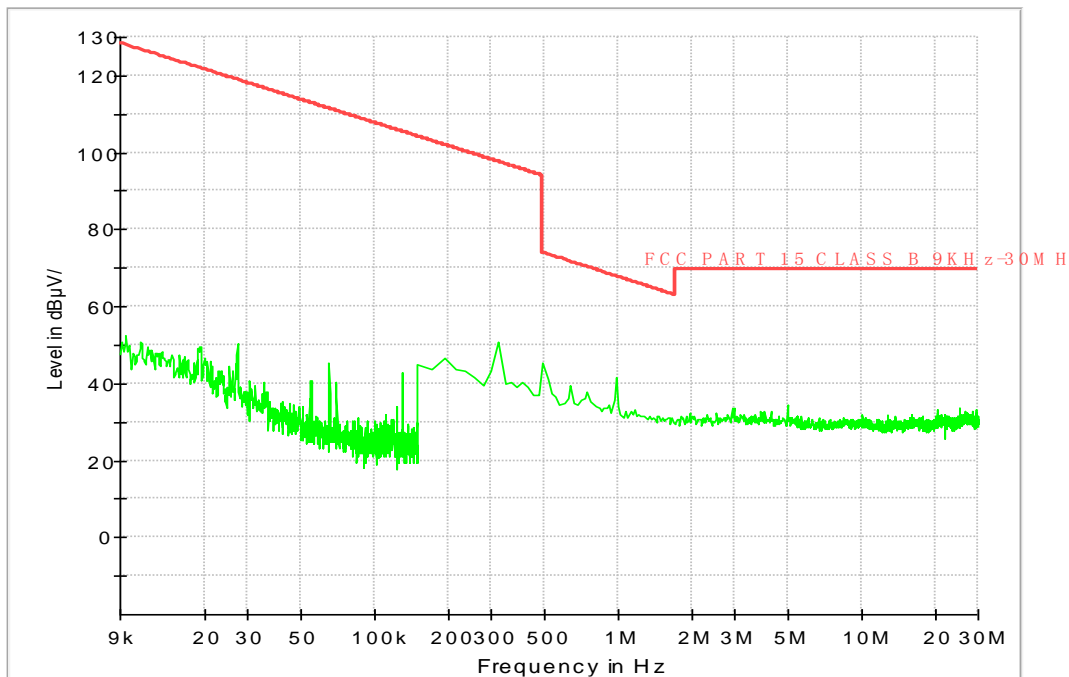
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

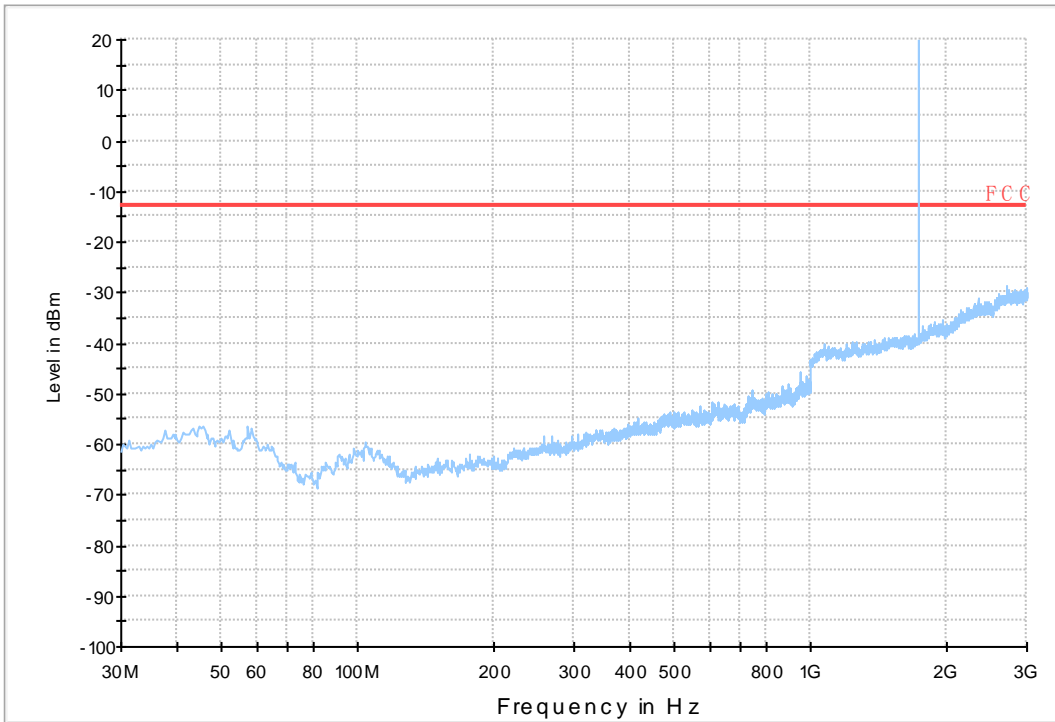
#### 7.1 For LTE

##### 7.1.1 Test Band = BAND4\_Ant1

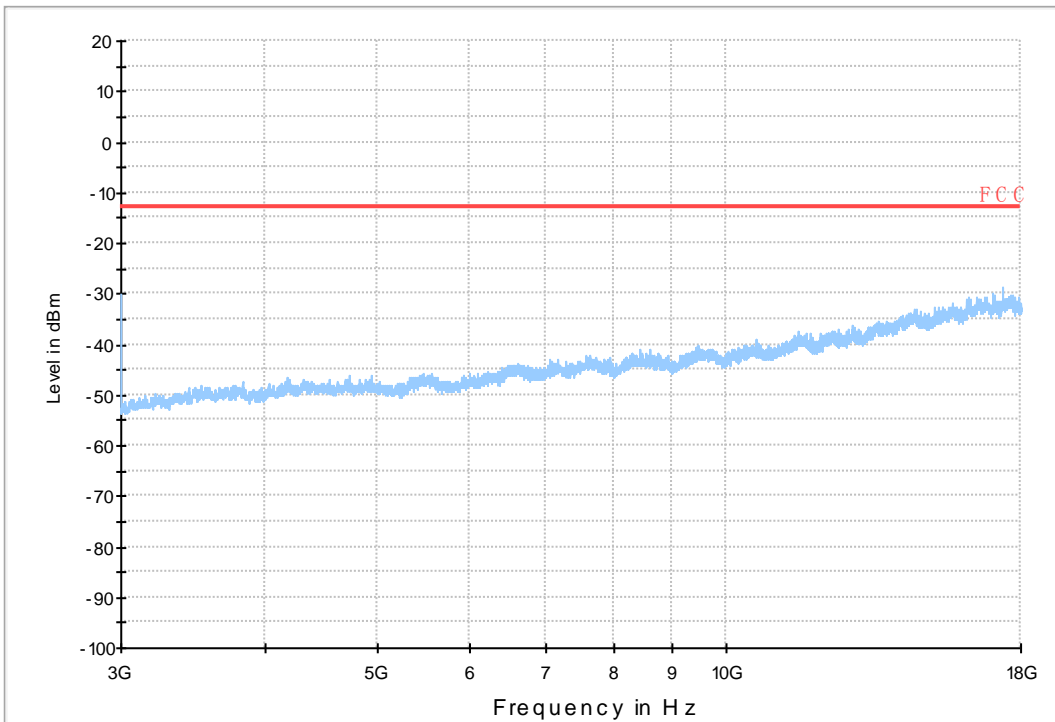
##### 7.1.1.1 Test Bandwidth = 1.4



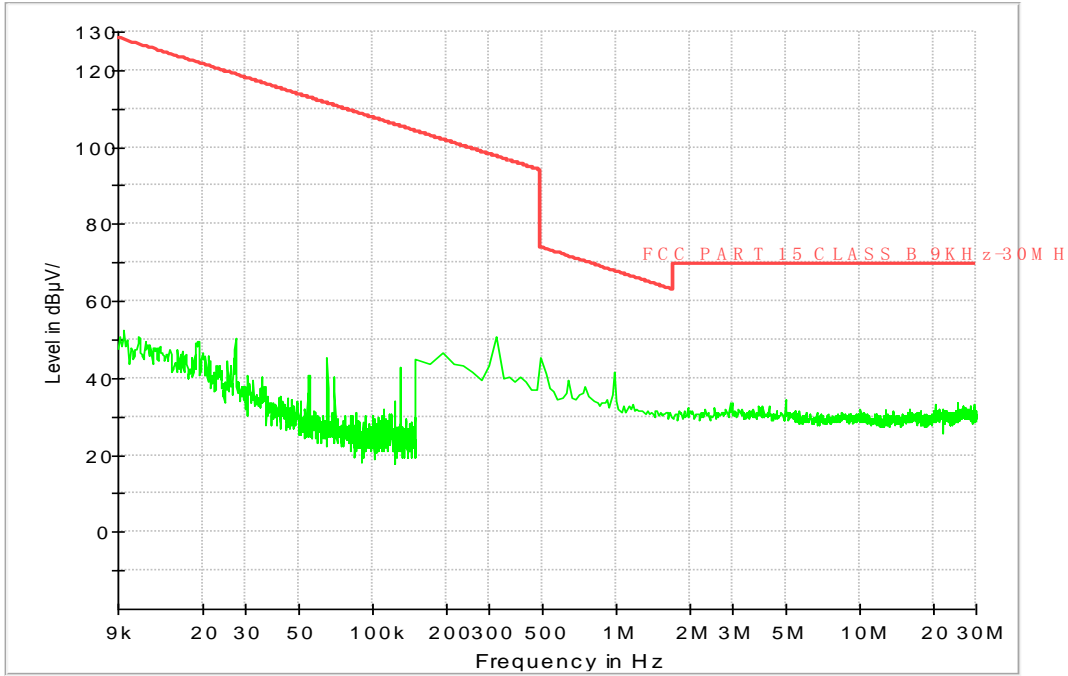
Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_L



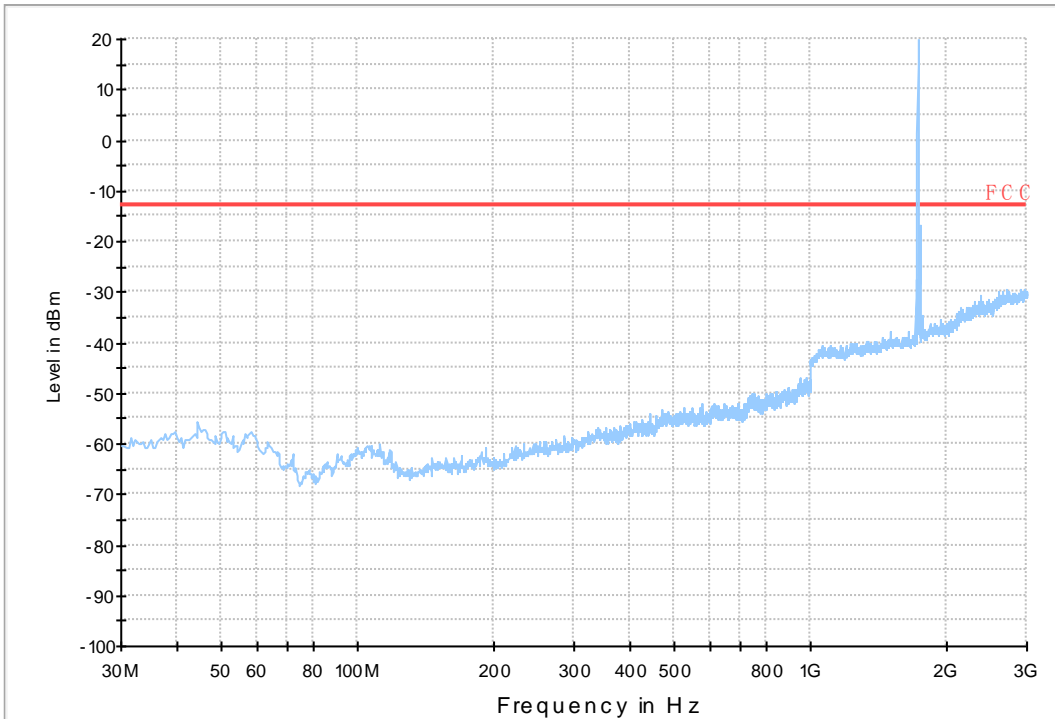
Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_H



### 7.1.1.2 Test Bandwidth = 20

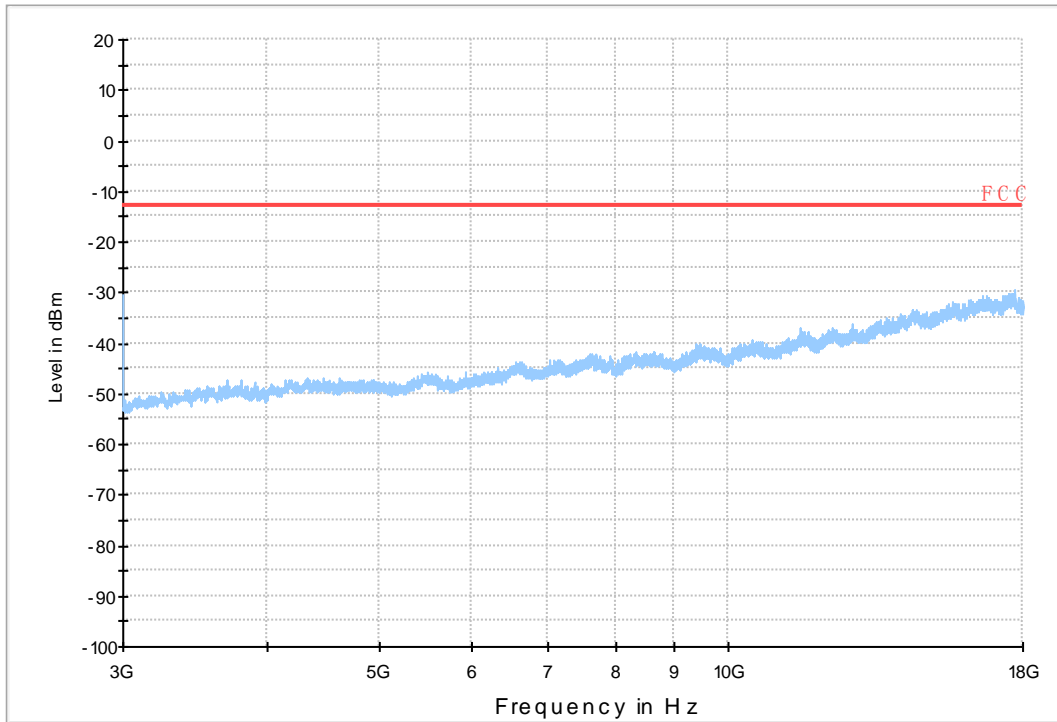


Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_L





Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_H



## 8Appendix\_H: Frequency Stability

### 8.1 For LTE

#### 8.1.1Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND4     | LTE/TM1   | 1.4                  | LCH          | TN         | VL         | 0.96             | 0.00056               | PASS    |
|           |           |                      |              |            | VN         | 1.03             | 0.0006                | PASS    |
|           |           |                      |              |            | VH         | -6.21            | -0.00363              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -0.53            | -0.00031              | PASS    |
|           |           |                      |              |            | VN         | 1.44             | 0.00083               | PASS    |
|           |           |                      |              |            | VH         | -1.70            | -0.00098              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -3.20            | -0.00182              | PASS    |
|           |           |                      |              |            | VN         | -5.94            | -0.00339              | PASS    |
|           |           |                      |              |            | VH         | -2.25            | -0.00128              | PASS    |
|           |           | 3                    | LCH          | TN         | VL         | -1.20            | -0.0007               | PASS    |
|           |           |                      |              |            | VN         | -2.93            | -0.00171              | PASS    |
|           |           |                      |              |            | VH         | -1.75            | -0.00102              | PASS    |
|           |           |                      | MCH          | TN         | VL         | -0.59            | -0.00034              | PASS    |
|           |           |                      |              |            | VN         | 1.04             | 0.0006                | PASS    |
|           |           |                      |              |            | VH         | 0.24             | 0.00014               | PASS    |
|           |           |                      | HCH          | TN         | VL         | -0.43            | -0.00025              | PASS    |
|           |           |                      |              |            | VN         | 0.90             | 0.00051               | PASS    |
|           |           |                      |              |            | VH         | 1.56             | 0.00089               | PASS    |
|           |           | 5                    | LCH          | TN         | VL         | 2.00             | 0.00117               | PASS    |
|           |           |                      |              |            | VN         | 3.02             | 0.00176               | PASS    |
|           |           |                      |              |            | VH         | 4.69             | 0.00274               | PASS    |
|           |           |                      | MCH          | TN         | VL         | 3.09             | 0.00178               | PASS    |
|           |           |                      |              |            | VN         | 0.30             | 0.00017               | PASS    |
|           |           |                      |              |            | VH         | -0.77            | -0.00044              | PASS    |
|           |           |                      | HCH          | TN         | VL         | -4.09            | -0.00233              | PASS    |
|           |           |                      |              |            | VN         | -3.26            | -0.00186              | PASS    |
|           |           |                      |              |            | VH         | -3.15            | -0.0018               | PASS    |
|           |           | 10                   | LCH          | TN         | VL         | -2.89            | -0.00169              | PASS    |
|           |           |                      |              |            | VN         | -2.83            | -0.00165              | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict  |      |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|----------|------|
|           | LTE/TM2   | 15                   | MCH          | TN         | VH         | -3.26            | -0.0019               | PASS     |      |
|           |           |                      |              |            | VL         | 0.76             | 0.00044               | PASS     |      |
|           |           |                      |              |            | VN         | 1.23             | 0.00071               | PASS     |      |
|           |           |                      | HCH          | TN         | VH         | 0.16             | 0.00009               | PASS     |      |
|           |           |                      |              |            | VL         | 2.22             | 0.00127               | PASS     |      |
|           |           |                      |              |            | VN         | 1.83             | 0.00105               | PASS     |      |
|           |           |                      | LCH          | TN         | VH         | 1.87             | 0.00107               | PASS     |      |
|           |           |                      |              |            | VL         | 0.84             | 0.00049               | PASS     |      |
|           |           |                      |              |            | VN         | 0.83             | 0.00048               | PASS     |      |
|           |           |                      | MCH          | TN         | VH         | 0.31             | 0.00018               | PASS     |      |
|           |           |                      |              |            | VL         | 0.27             | 0.00016               | PASS     |      |
|           |           |                      |              |            | VN         | -0.03            | -0.00002              | PASS     |      |
|           |           | VH                   |              |            | 0.03       | 0.00002          | PASS                  |          |      |
|           |           | VL                   |              |            | 0.60       | 0.00034          | PASS                  |          |      |
|           |           | VN                   |              |            | 0.39       | 0.00022          | PASS                  |          |      |
|           |           | HCH                  | TN           | VH         | 0.01       | 0.00001          | PASS                  |          |      |
|           |           |                      |              | VL         | 1.39       | 0.00081          | PASS                  |          |      |
|           |           |                      |              | VN         | 1.62       | 0.00094          | PASS                  |          |      |
|           |           | 20                   | MCH          | TN         | VH         | 0.49             | 0.00028               | PASS     |      |
|           |           |                      |              |            | VL         | 0.09             | 0.00005               | PASS     |      |
|           |           |                      |              |            | VN         | -0.89            | -0.00051              | PASS     |      |
|           |           |                      |              | HCH        | TN         | VH               | -0.47                 | -0.00027 | PASS |
|           |           |                      |              |            |            | VL               | -2.96                 | -0.0017  | PASS |
|           |           |                      |              |            |            | VN               | -2.49                 | -0.00143 | PASS |
|           |           | LCH                  | TN           | VH         | -2.05      | -0.00117         | PASS                  |          |      |
|           |           |                      |              | VL         | 0.67       | 0.00039          | PASS                  |          |      |
|           |           |                      |              | VN         | -4.11      | -0.0024          | PASS                  |          |      |
|           |           | 1.4                  | MCH          | TN         | VH         | -6.24            | -0.00365              | PASS     |      |
|           |           |                      |              |            | VL         | 3.38             | 0.00195               | PASS     |      |
|           |           |                      |              |            | VN         | 1.90             | 0.0011                | PASS     |      |
|           |           |                      |              | HCH        | TN         | VH               | 2.59                  | 0.00149  | PASS |
|           |           |                      |              |            |            | VL               | -0.49                 | -0.00028 | PASS |
|           |           |                      |              |            |            | VN               | -2.50                 | -0.00143 | PASS |
|           |           | 3                    | LCH          | TN         | VH         | -2.05            | -0.00117              | PASS     |      |
|           |           |                      |              |            | VL         | -2.52            | -0.00147              | PASS     |      |
|           |           |                      |              |            | VN         | -1.83            | -0.00107              | PASS     |      |
|           |           |                      |              | MCH        | TN         | VH               | 0.03                  | 0.00002  | PASS |
|           |           |                      |              |            |            | VL               | 3.69                  | 0.00213  | PASS |
|           |           |                      |              |            |            | VN               | 3.09                  | 0.00178  | PASS |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict  |      |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|----------|------|
|           |           | 5                    | HCH          | TN         | VH         | 1.82             | 0.00105               | PASS     |      |
|           |           |                      |              |            | VL         | -0.33            | -0.00019              | PASS     |      |
|           |           |                      |              |            | VN         | 1.47             | 0.00084               | PASS     |      |
|           |           |                      |              |            | VH         | 1.10             | 0.00063               | PASS     |      |
|           |           |                      | LCH          | TN         | VL         | 4.22             | 0.00246               | PASS     |      |
|           |           |                      |              |            | VN         | 4.76             | 0.00278               | PASS     |      |
|           |           |                      |              |            | VH         | 3.50             | 0.00204               | PASS     |      |
|           |           |                      |              | MCH        | TN         | VL               | 0.66                  | 0.00038  | PASS |
|           |           |                      |              |            |            | VN               | 1.14                  | 0.00066  | PASS |
|           |           |                      |              |            |            | VH               | 1.33                  | 0.00077  | PASS |
|           |           |                      | HCH          | TN         | VL         | -2.47            | -0.00141              | PASS     |      |
|           |           |                      |              |            | VN         | -2.62            | -0.0015               | PASS     |      |
|           |           | VH                   |              |            | -2.82      | -0.00161         | PASS                  |          |      |
|           |           | LCH                  |              | TN         | VL         | -2.56            | -0.00149              | PASS     |      |
|           |           |                      |              |            | VN         | -2.37            | -0.00138              | PASS     |      |
|           |           |                      |              |            | VH         | -2.90            | -0.00169              | PASS     |      |
|           |           | 10                   | MCH          | TN         | VL         | 1.56             | 0.0009                | PASS     |      |
|           |           |                      |              |            | VN         | 0.26             | 0.00015               | PASS     |      |
|           |           |                      |              |            | VH         | 0.47             | 0.00027               | PASS     |      |
|           |           |                      | HCH          | TN         | VL         | 0.92             | 0.00053               | PASS     |      |
|           |           |                      |              |            | VN         | 0.36             | 0.00021               | PASS     |      |
|           |           |                      |              |            | VH         | 1.20             | 0.00069               | PASS     |      |
|           |           |                      | 15           | LCH        | TN         | VL               | 0.89                  | 0.00052  | PASS |
|           |           |                      |              |            |            | VN               | 0.14                  | 0.00008  | PASS |
|           |           |                      |              |            |            | VH               | -0.57                 | -0.00033 | PASS |
|           |           | MCH                  |              | TN         | VL         | -0.17            | -0.0001               | PASS     |      |
|           |           |                      |              |            | VN         | 0.62             | 0.00036               | PASS     |      |
|           |           |                      |              |            | VH         | 0.00             | 0.00000               | PASS     |      |
|           |           | HCH                  |              | TN         | VL         | 0.54             | 0.00031               | PASS     |      |
|           |           |                      |              |            | VN         | -0.29            | -0.00017              | PASS     |      |
|           |           |                      |              |            | VH         | 0.87             | 0.0005                | PASS     |      |
|           |           | 20                   | LCH          | TN         | VL         | 1.37             | 0.0008                | PASS     |      |
|           |           |                      |              |            | VN         | 1.32             | 0.00077               | PASS     |      |
|           |           |                      |              |            | VH         | 1.04             | 0.0006                | PASS     |      |
|           |           |                      | MCH          | TN         | VL         | -0.59            | -0.00034              | PASS     |      |
|           |           |                      |              |            | VN         | 0.62             | 0.00036               | PASS     |      |
|           |           |                      |              |            | VH         | 0.50             | 0.00029               | PASS     |      |
|           |           |                      | HCH          | TN         | VL         | -2.76            | -0.00158              | PASS     |      |
|           |           |                      |              |            | VN         | -2.99            | -0.00171              | PASS     |      |



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| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | VH         | -3.32            | -0.0019               | PASS    |



## 8.1.2 Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND4     | LTE/TM1   | 1.4                  | LCH          | VN         | -30        | -16.75           | -0.00979              | PASS    |
|           |           |                      |              |            | -20        | -7.48            | -0.00437              | PASS    |
|           |           |                      |              |            | -10        | -11.47           | -0.0067               | PASS    |
|           |           |                      |              |            | 0          | -11.60           | -0.00678              | PASS    |
|           |           |                      |              |            | 10         | -10.89           | -0.00637              | PASS    |
|           |           |                      |              |            | 20         | -8.35            | -0.00488              | PASS    |
|           |           |                      |              |            | 30         | -3.86            | -0.00226              | PASS    |
|           |           |                      |              |            | 40         | -1.82            | -0.00106              | PASS    |
|           |           |                      |              |            | 50         | -20.18           | -0.0118               | PASS    |
|           |           |                      | MCH          | VN         | -30        | -3.06            | -0.00177              | PASS    |
|           |           |                      |              |            | -20        | 3.88             | 0.00224               | PASS    |
|           |           |                      |              |            | -10        | 0.23             | 0.00013               | PASS    |
|           |           |                      |              |            | 0          | 1.82             | 0.00105               | PASS    |
|           |           |                      |              |            | 10         | 6.61             | 0.00382               | PASS    |
|           |           |                      |              |            | 20         | 1.44             | 0.00083               | PASS    |
|           |           |                      |              |            | 30         | 2.17             | 0.00125               | PASS    |
|           |           |                      |              |            | 40         | 1.46             | 0.00084               | PASS    |
|           |           |                      |              |            | 50         | 1.00             | 0.00058               | PASS    |
|           |           |                      | HCH          | VN         | -30        | -5.21            | -0.00297              | PASS    |
|           |           |                      |              |            | -20        | -1.79            | -0.00102              | PASS    |
|           |           |                      |              |            | -10        | -0.23            | -0.00013              | PASS    |
|           |           |                      |              |            | 0          | -1.90            | -0.00108              | PASS    |
|           |           |                      |              |            | 10         | -2.19            | -0.00125              | PASS    |
|           |           |                      |              |            | 20         | -4.22            | -0.00241              | PASS    |
|           |           | 30                   |              |            | -3.53      | -0.00201         | PASS                  |         |
|           |           | 40                   |              |            | -2.16      | -0.00123         | PASS                  |         |
|           |           | 50                   |              |            | -1.22      | -0.0007          | PASS                  |         |
|           |           | 3                    | LCH          | VN         | -30        | -1.59            | -0.00093              | PASS    |
|           |           |                      |              |            | -20        | -1.09            | -0.00064              | PASS    |
|           |           |                      |              |            | -10        | -1.37            | -0.0008               | PASS    |
|           |           |                      |              |            | 0          | -5.16            | -0.00301              | PASS    |
|           |           |                      |              |            | 10         | -2.29            | -0.00134              | PASS    |
|           |           |                      |              |            | 20         | -2.12            | -0.00124              | PASS    |
|           |           |                      |              |            | 30         | -3.08            | -0.0018               | PASS    |
|           |           |                      |              |            | 40         | -1.00            | -0.00058              | PASS    |
|           |           |                      |              |            | 50         | -2.73            | -0.0016               | PASS    |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      | MCH          | VN         | -30        | -4.43            | -0.00256              | PASS    |
|           |           |                      |              |            | -20        | 4.03             | 0.00233               | PASS    |
|           |           |                      |              |            | -10        | -0.09            | -0.00005              | PASS    |
|           |           |                      |              |            | 0          | -4.86            | -0.00281              | PASS    |
|           |           |                      |              |            | 10         | -1.50            | -0.00087              | PASS    |
|           |           |                      |              |            | 20         | -3.28            | -0.00189              | PASS    |
|           |           |                      |              |            | 30         | -2.09            | -0.00121              | PASS    |
|           |           |                      |              |            | 40         | -3.55            | -0.00205              | PASS    |
|           |           |                      |              |            | 50         | -2.79            | -0.00161              | PASS    |
|           |           |                      | HCH          | VN         | -30        | -0.19            | -0.00011              | PASS    |
|           |           |                      |              |            | -20        | 2.25             | 0.00128               | PASS    |
|           |           |                      |              |            | -10        | -1.07            | -0.00061              | PASS    |
|           |           |                      |              |            | 0          | -0.23            | -0.00013              | PASS    |
|           |           |                      |              |            | 10         | 0.73             | 0.00042               | PASS    |
|           |           |                      |              |            | 20         | 0.19             | 0.00011               | PASS    |
|           |           |                      |              |            | 30         | -1.99            | -0.00113              | PASS    |
|           |           |                      |              |            | 40         | 0.09             | 0.00005               | PASS    |
|           |           |                      |              |            | 50         | 0.07             | 0.00004               | PASS    |
|           |           | 5                    | LCH          | VN         | -30        | 1.07             | 0.00062               | PASS    |
|           |           |                      |              |            | -20        | 4.59             | 0.00268               | PASS    |
|           |           |                      |              |            | -10        | 4.23             | 0.00247               | PASS    |
|           |           |                      |              |            | 0          | 1.95             | 0.00114               | PASS    |
|           |           |                      |              |            | 10         | 2.95             | 0.00172               | PASS    |
|           |           |                      |              |            | 20         | 1.93             | 0.00113               | PASS    |
|           |           |                      |              |            | 30         | 2.88             | 0.00168               | PASS    |
|           |           |                      |              |            | 40         | 0.03             | 0.00002               | PASS    |
|           |           |                      |              |            | 50         | 1.69             | 0.00099               | PASS    |
|           |           |                      | MCH          | VN         | -30        | -2.65            | -0.00153              | PASS    |
|           |           |                      |              |            | -20        | -1.06            | -0.00061              | PASS    |
|           |           |                      |              |            | -10        | 0.20             | 0.00012               | PASS    |
|           |           |                      |              |            | 0          | 0.46             | 0.00027               | PASS    |
|           |           |                      |              |            | 10         | -0.53            | -0.00031              | PASS    |
|           |           |                      |              |            | 20         | 1.53             | 0.00088               | PASS    |
|           |           |                      |              |            | 30         | -1.73            | -0.001                | PASS    |
|           |           |                      |              |            | 40         | 1.06             | 0.00061               | PASS    |
|           |           |                      |              |            | 50         | -0.36            | -0.00021              | PASS    |
|           |           | HCH                  | VN           | -30        | -2.42      | -0.00138         | PASS                  |         |
|           |           |                      |              | -20        | -2.42      | -0.00138         | PASS                  |         |
|           |           |                      |              | -10        | -3.46      | -0.00197         | PASS                  |         |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |         |      |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|---------|------|
|           |           |                      |              |            | 0          | -3.85            | -0.0022               | PASS    |         |      |
|           |           |                      |              |            | 10         | -2.22            | -0.00127              | PASS    |         |      |
|           |           |                      |              |            | 20         | -2.60            | -0.00148              | PASS    |         |      |
|           |           |                      |              |            | 30         | -2.33            | -0.00133              | PASS    |         |      |
|           |           |                      |              |            | 40         | -2.89            | -0.00165              | PASS    |         |      |
|           |           |                      |              |            | 50         | -3.46            | -0.00197              | PASS    |         |      |
|           |           | 10                   | LCH          | VN         | -30        | -1.37            | -0.0008               | PASS    |         |      |
|           |           |                      |              |            | -20        | -0.86            | -0.0005               | PASS    |         |      |
|           |           |                      |              |            | -10        | -2.72            | -0.00159              | PASS    |         |      |
|           |           |                      |              |            | 0          | -2.05            | -0.0012               | PASS    |         |      |
|           |           |                      |              |            | 10         | -2.82            | -0.00164              | PASS    |         |      |
|           |           |                      |              |            | 20         | -2.82            | -0.00164              | PASS    |         |      |
|           |           |                      |              |            | 30         | -2.76            | -0.00161              | PASS    |         |      |
|           |           |                      |              |            | 40         | -3.28            | -0.00191              | PASS    |         |      |
|           |           |                      |              |            | 50         | -3.32            | -0.00194              | PASS    |         |      |
|           |           |                      |              |            | MCH        | VN               | -30                   | 0.82    | 0.00047 | PASS |
|           |           |                      |              |            |            |                  | -20                   | 0.30    | 0.00017 | PASS |
|           |           |                      |              |            |            |                  | -10                   | 0.79    | 0.00046 | PASS |
|           |           |                      | 0            | -0.26      |            |                  | -0.00015              | PASS    |         |      |
|           |           |                      | 10           | -0.16      |            |                  | -0.00009              | PASS    |         |      |
|           |           |                      | 20           | 1.17       |            |                  | 0.00068               | PASS    |         |      |
|           |           |                      | 30           | 1.67       |            |                  | 0.00096               | PASS    |         |      |
|           |           |                      | 40           | 0.43       |            |                  | 0.00025               | PASS    |         |      |
|           |           |                      | 50           | -0.40      |            |                  | -0.00023              | PASS    |         |      |
|           |           |                      | HCH          | VN         |            |                  | -30                   | 2.69    | 0.00154 | PASS |
|           |           |                      |              |            |            |                  | -20                   | 1.59    | 0.00091 | PASS |
|           |           |                      |              |            |            |                  | -10                   | 3.23    | 0.00185 | PASS |
|           |           |                      |              |            | 0          | 1.32             | 0.00075               | PASS    |         |      |
|           |           |                      |              |            | 10         | 2.09             | 0.00119               | PASS    |         |      |
|           |           |                      |              |            | 20         | 1.09             | 0.00062               | PASS    |         |      |
|           |           | 30                   |              |            | 1.89       | 0.00108          | PASS                  |         |         |      |
|           |           | 40                   |              |            | 2.12       | 0.00121          | PASS                  |         |         |      |
|           |           | 50                   | 2.50         | 0.00143    | PASS       |                  |                       |         |         |      |
|           |           | 15                   | LCH          | VN         | -30        | -0.24            | -0.00014              | PASS    |         |      |
|           |           |                      |              |            | -20        | -1.02            | -0.00059              | PASS    |         |      |
|           |           |                      |              |            | -10        | 0.31             | 0.00018               | PASS    |         |      |
|           |           |                      |              |            | 0          | -0.67            | -0.00039              | PASS    |         |      |
|           |           |                      |              |            | 10         | -1.00            | -0.00058              | PASS    |         |      |
|           |           |                      |              |            | 20         | 0.47             | 0.00027               | PASS    |         |      |





| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | 30         | 1.03             | 0.0006                | PASS    |
|           |           |                      |              |            | 40         | 0.14             | 0.00008               | PASS    |
|           |           |                      |              |            | 50         | -0.26            | -0.00015              | PASS    |
|           |           |                      | MCH          | VN         | -30        | -1.02            | -0.00059              | PASS    |
|           |           |                      |              |            | -20        | -0.56            | -0.00032              | PASS    |
|           |           |                      |              |            | -10        | -0.06            | -0.00003              | PASS    |
|           |           |                      |              |            | 0          | 0.26             | 0.00015               | PASS    |
|           |           |                      |              |            | 10         | -0.40            | -0.00023              | PASS    |
|           |           |                      |              |            | 20         | 0.97             | 0.00056               | PASS    |
|           |           |                      |              |            | 30         | -1.29            | -0.00074              | PASS    |
|           |           |                      |              |            | 40         | -0.87            | -0.0005               | PASS    |
|           |           |                      |              |            | 50         | 0.43             | 0.00025               | PASS    |
|           |           |                      | HCH          | VN         | -30        | 1.83             | 0.00105               | PASS    |
|           |           |                      |              |            | -20        | -0.36            | -0.00021              | PASS    |
|           |           |                      |              |            | -10        | 0.56             | 0.00032               | PASS    |
|           |           |                      |              |            | 0          | -0.24            | -0.00014              | PASS    |
|           |           |                      |              |            | 10         | 0.94             | 0.00054               | PASS    |
|           |           |                      |              |            | 20         | 1.50             | 0.00086               | PASS    |
|           |           | 30                   |              |            | -0.41      | -0.00023         | PASS                  |         |
|           |           | 40                   |              |            | 0.59       | 0.00034          | PASS                  |         |
|           |           | 20                   | LCH          | VN         | -30        | 2.52             | 0.00147               | PASS    |
|           |           |                      |              |            | -20        | 1.39             | 0.00081               | PASS    |
|           |           |                      |              |            | -10        | 2.32             | 0.00135               | PASS    |
|           |           |                      |              |            | 0          | 2.30             | 0.00134               | PASS    |
|           |           |                      |              |            | 10         | 1.04             | 0.0006                | PASS    |
|           |           |                      |              |            | 20         | 1.79             | 0.00104               | PASS    |
|           |           |                      |              |            | 30         | 2.27             | 0.00132               | PASS    |
|           |           |                      |              |            | 40         | 2.92             | 0.0017                | PASS    |
|           |           |                      |              |            | 50         | 1.24             | 0.00072               | PASS    |
|           |           |                      | MCH          | VN         | -30        | 0.37             | 0.00021               | PASS    |
|           |           |                      |              |            | -20        | 0.99             | 0.00057               | PASS    |
|           |           |                      |              |            | -10        | -0.54            | -0.00031              | PASS    |
|           |           |                      |              |            | 0          | 0.10             | 0.00006               | PASS    |
|           |           |                      |              |            | 10         | -0.10            | -0.00006              | PASS    |
|           |           |                      |              |            | 20         | 0.82             | 0.00047               | PASS    |
|           |           |                      |              |            | 30         | -0.26            | -0.00015              | PASS    |
| 40        | 0.72      |                      |              |            | 0.00042    | PASS             |                       |         |
| 50        | 0.10      |                      |              |            | 0.00006    | PASS             |                       |         |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |     |       |          |      |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|-----|-------|----------|------|
|           |           |                      | HCH          | VN         | -30        | -2.86            | -0.00164              | PASS    |     |       |          |      |
|           |           |                      |              |            | -20        | -3.36            | -0.00193              | PASS    |     |       |          |      |
|           |           |                      |              |            | -10        | -3.30            | -0.00189              | PASS    |     |       |          |      |
|           |           |                      |              |            | 0          | -2.22            | -0.00127              | PASS    |     |       |          |      |
|           |           |                      |              |            | 10         | -3.26            | -0.00187              | PASS    |     |       |          |      |
|           |           |                      |              |            | 20         | -3.05            | -0.00175              | PASS    |     |       |          |      |
|           |           |                      |              |            | 30         | -3.59            | -0.00206              | PASS    |     |       |          |      |
|           |           |                      |              |            | 40         | -3.75            | -0.00215              | PASS    |     |       |          |      |
|           |           |                      |              |            | 50         | -2.25            | -0.00129              | PASS    |     |       |          |      |
|           |           |                      |              |            |            | LCH              | 1.4                   | VN      | -30 | 19.59 | 0.01145  | PASS |
|           |           |                      |              |            |            |                  |                       |         | -20 | -0.21 | -0.00012 | PASS |
|           |           |                      |              |            |            |                  |                       |         | -10 | -6.92 | -0.00405 | PASS |
|           |           |                      |              |            |            |                  |                       |         | 0   | -1.97 | -0.00115 | PASS |
|           |           |                      |              |            |            |                  |                       |         | 10  | -5.62 | -0.00329 | PASS |
|           | 20        | -4.09                | -0.00239     | PASS       |            |                  |                       |         |     |       |          |      |
|           | 30        | -6.85                | -0.004       | PASS       |            |                  |                       |         |     |       |          |      |
|           | 40        | -2.83                | -0.00165     | PASS       |            |                  |                       |         |     |       |          |      |
|           | 50        | -6.19                | -0.00362     | PASS       |            |                  |                       |         |     |       |          |      |
|           |           | MCH                  | 1.4          | VN         |            |                  |                       |         | -30 | 5.11  | 0.00295  | PASS |
|           |           |                      |              |            |            |                  |                       |         | -20 | 1.23  | 0.00071  | PASS |
|           |           |                      |              |            |            |                  |                       |         | -10 | -0.50 | -0.00029 | PASS |
|           |           |                      |              |            |            |                  |                       |         | 0   | 1.73  | 0.001    | PASS |
|           |           |                      |              |            |            |                  |                       |         | 10  | 1.12  | 0.00065  | PASS |
|           |           |                      |              |            |            |                  |                       |         | 20  | 0.67  | 0.00039  | PASS |
|           |           |                      |              |            |            |                  |                       |         | 30  | 2.22  | 0.00128  | PASS |
|           |           |                      |              |            |            |                  |                       |         | 40  | -2.15 | -0.00124 | PASS |
|           |           |                      |              |            |            |                  |                       |         | 50  | -3.12 | -0.0018  | PASS |
|           |           |                      |              |            |            | HCH              | 1.4                   | VN      | -30 | -2.65 | -0.00151 | PASS |
|           | -20       | -1.47                | -0.00084     | PASS       |            |                  |                       |         |     |       |          |      |
|           | -10       | -4.41                | -0.00251     | PASS       |            |                  |                       |         |     |       |          |      |
|           | 0         | -3.49                | -0.00199     | PASS       |            |                  |                       |         |     |       |          |      |
|           | 10        | -2.39                | -0.00136     | PASS       |            |                  |                       |         |     |       |          |      |
|           | 20        | -6.34                | -0.00361     | PASS       |            |                  |                       |         |     |       |          |      |
|           | 30        | -4.71                | -0.00268     | PASS       |            |                  |                       |         |     |       |          |      |
|           | 40        | -0.27                | -0.00015     | PASS       |            |                  |                       |         |     |       |          |      |
|           | 50        | -1.92                | -0.00109     | PASS       |            |                  |                       |         |     |       |          |      |
|           |           | LCH                  | 3            | VN         |            |                  |                       |         | -30 | -5.81 | -0.00339 | PASS |
|           |           |                      |              |            | -20        | 0.39             | 0.00023               | PASS    |     |       |          |      |
|           |           |                      |              |            | -10        | -0.93            | -0.00054              | PASS    |     |       |          |      |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | 0          | -2.27            | -0.00133              | PASS    |
|           |           |                      |              |            | 10         | 0.94             | 0.00055               | PASS    |
|           |           |                      |              |            | 20         | -2.82            | -0.00165              | PASS    |
|           |           |                      |              |            | 30         | -3.71            | -0.00217              | PASS    |
|           |           |                      |              |            | 40         | -1.44            | -0.00084              | PASS    |
|           |           |                      |              |            | 50         | 1.85             | 0.00108               | PASS    |
|           |           |                      | MCH          | VN         | -30        | 0.69             | 0.0004                | PASS    |
|           |           |                      |              |            | -20        | -0.56            | -0.00032              | PASS    |
|           |           |                      |              |            | -10        | 1.65             | 0.00095               | PASS    |
|           |           |                      |              |            | 0          | -0.82            | -0.00047              | PASS    |
|           |           |                      |              |            | 10         | 2.09             | 0.00121               | PASS    |
|           |           |                      |              |            | 20         | 1.87             | 0.00108               | PASS    |
|           |           |                      |              |            | 30         | 0.83             | 0.00048               | PASS    |
|           |           |                      |              |            | 40         | 4.01             | 0.00231               | PASS    |
|           |           |                      | HCH          | VN         | 50         | 1.02             | 0.00059               | PASS    |
|           |           |                      |              |            | -30        | 0.64             | 0.00036               | PASS    |
|           |           |                      |              |            | -20        | 1.00             | 0.00057               | PASS    |
|           |           |                      |              |            | -10        | -0.01            | -0.00001              | PASS    |
|           |           |                      |              |            | 0          | 0.01             | 0.00001               | PASS    |
|           |           |                      |              |            | 10         | -0.50            | -0.00029              | PASS    |
|           |           |                      |              |            | 20         | 0.97             | 0.00055               | PASS    |
|           |           |                      |              |            | 30         | 1.53             | 0.00087               | PASS    |
|           |           |                      | LCH          | VN         | 40         | -1.30            | -0.00074              | PASS    |
|           |           |                      |              |            | 50         | 1.87             | 0.00107               | PASS    |
|           |           |                      |              |            | -30        | 2.39             | 0.0014                | PASS    |
|           |           |                      |              |            | -20        | 4.89             | 0.00286               | PASS    |
|           |           |                      |              |            | -10        | 4.42             | 0.00258               | PASS    |
|           |           |                      |              |            | 0          | 4.33             | 0.00253               | PASS    |
|           |           |                      |              |            | 10         | 3.19             | 0.00186               | PASS    |
|           |           |                      |              |            | 20         | 3.65             | 0.00213               | PASS    |
|           |           |                      |              |            | 30         | 4.03             | 0.00235               | PASS    |
|           |           |                      |              |            | 40         | 2.03             | 0.00119               | PASS    |
|           |           |                      | MCH          | VN         | 50         | 4.02             | 0.00235               | PASS    |
|           |           |                      |              |            | -30        | 1.37             | 0.00079               | PASS    |
|           |           |                      |              |            | -20        | 0.72             | 0.00042               | PASS    |
|           |           |                      |              |            | -10        | 0.59             | 0.00034               | PASS    |
| 0         | 0.19      | 0.00011              |              |            | PASS       |                  |                       |         |
| 10        | -0.33     | -0.00019             |              |            | PASS       |                  |                       |         |
|           |           |                      |              |            | 20         | -1.92            | -0.00111              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict  |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|----------|
|           |           |                      | HCH          | VN         | 30         | -0.20            | -0.00012              | PASS     |
|           |           |                      |              |            | 40         | 0.53             | 0.00031               | PASS     |
|           |           |                      |              |            | 50         | 0.26             | 0.00015               | PASS     |
|           |           |                      |              |            | -30        | -3.58            | -0.00204              | PASS     |
|           |           |                      |              |            | -20        | -1.73            | -0.00099              | PASS     |
|           |           |                      |              |            | -10        | -2.70            | -0.00154              | PASS     |
|           |           |                      |              |            | 0          | -2.16            | -0.00123              | PASS     |
|           |           |                      |              |            | 10         | -3.53            | -0.00201              | PASS     |
|           |           |                      |              |            | 20         | -3.10            | -0.00177              | PASS     |
|           |           |                      |              |            | 30         | -2.10            | -0.0012               | PASS     |
|           |           |                      | 40           | -3.43      | -0.00196   | PASS             |                       |          |
|           |           |                      | 50           | -2.00      | -0.00114   | PASS             |                       |          |
|           |           |                      | LCH          | VN         | -30        | -1.66            | -0.00097              | PASS     |
|           |           |                      |              |            | -20        | -3.38            | -0.00197              | PASS     |
|           |           |                      |              |            | -10        | -0.89            | -0.00052              | PASS     |
|           |           |                      |              |            | 0          | -3.73            | -0.00217              | PASS     |
|           |           |                      |              |            | 10         | -2.55            | -0.00149              | PASS     |
|           |           |                      |              |            | 20         | -5.05            | -0.00294              | PASS     |
|           |           |                      |              |            | 30         | -2.16            | -0.00126              | PASS     |
|           |           |                      |              |            | 40         | -2.25            | -0.00131              | PASS     |
|           |           | 50                   |              |            | -1.95      | -0.00114         | PASS                  |          |
|           |           | MCH                  |              |            | VN         | -30              | -0.19                 | -0.00011 |
|           |           |                      | -20          | 1.83       |            | 0.00106          | PASS                  |          |
|           |           |                      | -10          | 1.26       |            | 0.00073          | PASS                  |          |
|           |           |                      | 0            | 1.69       |            | 0.00098          | PASS                  |          |
|           |           |                      | 10           | -0.34      |            | -0.0002          | PASS                  |          |
|           |           |                      | 20           | -0.21      |            | -0.00012         | PASS                  |          |
|           |           |                      | 30           | -0.33      |            | -0.00019         | PASS                  |          |
|           |           |                      | 40           | -1.13      |            | -0.00065         | PASS                  |          |
|           |           |                      | 50           | -0.07      |            | -0.00004         | PASS                  |          |
|           |           |                      | HCH          | VN         |            | -30              | 2.47                  | 0.00141  |
|           |           | -20                  |              |            | 2.35       | 0.00134          | PASS                  |          |
|           |           | -10                  |              |            | 1.76       | 0.00101          | PASS                  |          |
|           |           | 0                    |              |            | 2.05       | 0.00117          | PASS                  |          |
|           |           | 10                   |              |            | 3.55       | 0.00203          | PASS                  |          |
|           |           | 20                   |              |            | 3.73       | 0.00213          | PASS                  |          |
|           |           | 30                   |              |            | 3.19       | 0.00182          | PASS                  |          |
|           |           | 40                   |              |            | 4.59       | 0.00262          | PASS                  |          |
|           |           | 50                   | 2.42         | 0.00138    | PASS       |                  |                       |          |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           | 15                   | LCH          | VN         | -30        | 0.01             | 0.00001               | PASS    |
|           |           |                      |              |            | -20        | -0.50            | -0.00029              | PASS    |
|           |           |                      |              |            | -10        | -0.07            | -0.00004              | PASS    |
|           |           |                      |              |            | 0          | -1.04            | -0.00061              | PASS    |
|           |           |                      |              |            | 10         | 0.04             | 0.00002               | PASS    |
|           |           |                      |              |            | 20         | -0.83            | -0.00048              | PASS    |
|           |           |                      |              |            | 30         | -0.03            | -0.00002              | PASS    |
|           |           |                      |              |            | 40         | -0.69            | -0.0004               | PASS    |
|           |           |                      | 50           | 0.64       | 0.00037    | PASS             |                       |         |
|           |           |                      | MCH          | VN         | -30        | 0.57             | 0.00033               | PASS    |
|           |           |                      |              |            | -20        | -0.36            | -0.00021              | PASS    |
|           |           |                      |              |            | -10        | 0.34             | 0.0002                | PASS    |
|           |           |                      |              |            | 0          | 0.40             | 0.00023               | PASS    |
|           |           |                      |              |            | 10         | -1.16            | -0.00067              | PASS    |
|           |           |                      |              |            | 20         | 0.10             | 0.00006               | PASS    |
|           |           |                      |              |            | 30         | 0.90             | 0.00052               | PASS    |
|           |           |                      |              |            | 40         | -0.29            | -0.00017              | PASS    |
|           |           |                      | 50           | 0.47       | 0.00027    | PASS             |                       |         |
|           |           |                      | HCH          | VN         | -30        | -0.01            | -0.00001              | PASS    |
|           |           |                      |              |            | -20        | 0.03             | 0.00002               | PASS    |
|           |           |                      |              |            | -10        | -0.09            | -0.00005              | PASS    |
|           |           |                      |              |            | 0          | 0.43             | 0.00025               | PASS    |
|           |           |                      |              |            | 10         | 0.20             | 0.00011               | PASS    |
|           |           |                      |              |            | 20         | -1.23            | -0.0007               | PASS    |
|           |           | 30                   |              |            | -1.13      | -0.00065         | PASS                  |         |
|           |           | 40                   |              |            | -0.96      | -0.00055         | PASS                  |         |
|           |           | 50                   | 0.44         | 0.00025    | PASS       |                  |                       |         |
|           |           | 20                   | LCH          | VN         | -30        | 1.39             | 0.00081               | PASS    |
|           |           |                      |              |            | -20        | 1.29             | 0.00075               | PASS    |
|           |           |                      |              |            | -10        | 0.17             | 0.0001                | PASS    |
|           |           |                      |              |            | 0          | 0.84             | 0.00049               | PASS    |
|           |           |                      |              |            | 10         | 1.82             | 0.00106               | PASS    |
|           |           |                      |              |            | 20         | 0.54             | 0.00031               | PASS    |
|           |           |                      |              |            | 30         | 0.34             | 0.0002                | PASS    |
|           |           |                      |              |            | 40         | 1.12             | 0.00065               | PASS    |
|           |           |                      | 50           | 1.52       | 0.00088    | PASS             |                       |         |
|           |           |                      | MCH          | VN         | -30        | -1.12            | -0.00065              | PASS    |
|           |           |                      |              |            | -20        | -0.04            | -0.00002              | PASS    |
|           |           |                      |              |            | -10        | -0.41            | -0.00024              | PASS    |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
|           |           |                      |              |            | 0          | -0.41            | -0.00024              | PASS    |
|           |           |                      |              |            | 10         | -0.87            | -0.0005               | PASS    |
|           |           |                      |              |            | 20         | 0.03             | 0.00002               | PASS    |
|           |           |                      |              |            | 30         | 0.86             | 0.0005                | PASS    |
|           |           |                      |              |            | 40         | -0.47            | -0.00027              | PASS    |
|           |           |                      |              |            | 50         | 0.03             | 0.00002               | PASS    |
|           |           |                      | HCH          | VN         | -30        | -2.45            | -0.0014               | PASS    |
|           |           |                      |              |            | -20        | -2.75            | -0.00158              | PASS    |
|           |           |                      |              |            | -10        | -2.26            | -0.0013               | PASS    |
|           |           |                      |              |            | 0          | -2.98            | -0.00171              | PASS    |
|           |           |                      |              |            | 10         | -3.98            | -0.00228              | PASS    |
|           |           |                      |              |            | 20         | -2.33            | -0.00134              | PASS    |
|           |           |                      |              |            | 30         | -2.26            | -0.0013               | PASS    |
|           |           |                      |              |            | 40         | -3.78            | -0.00217              | PASS    |
|           |           |                      |              |            | 50         | -2.78            | -0.00159              | PASS    |

END