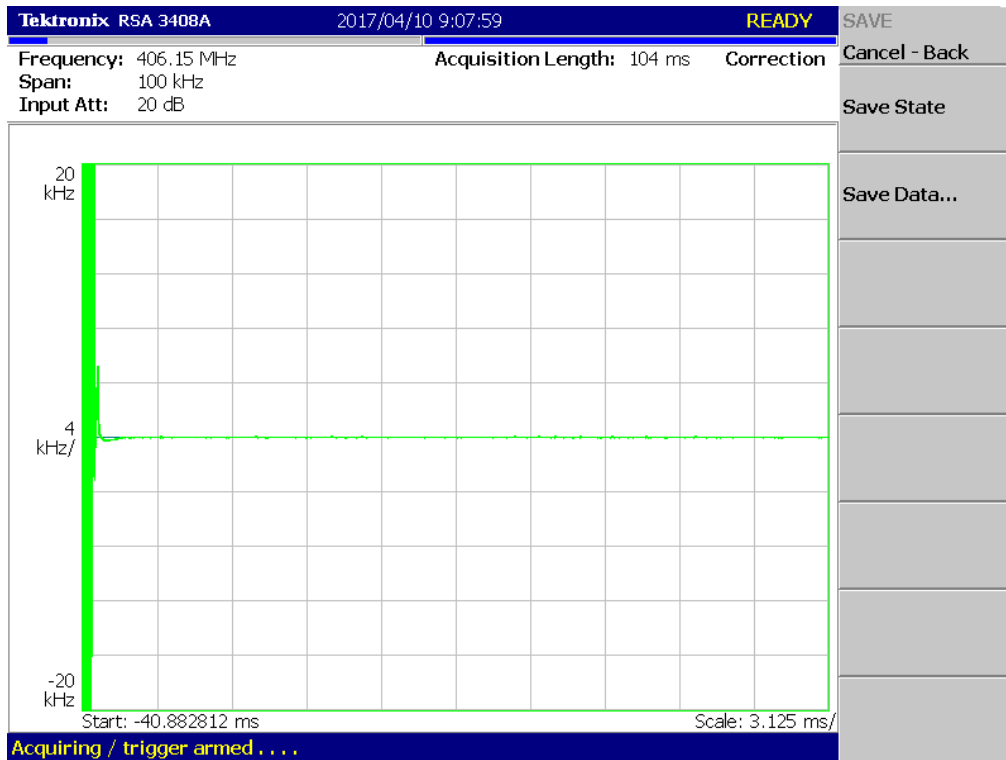


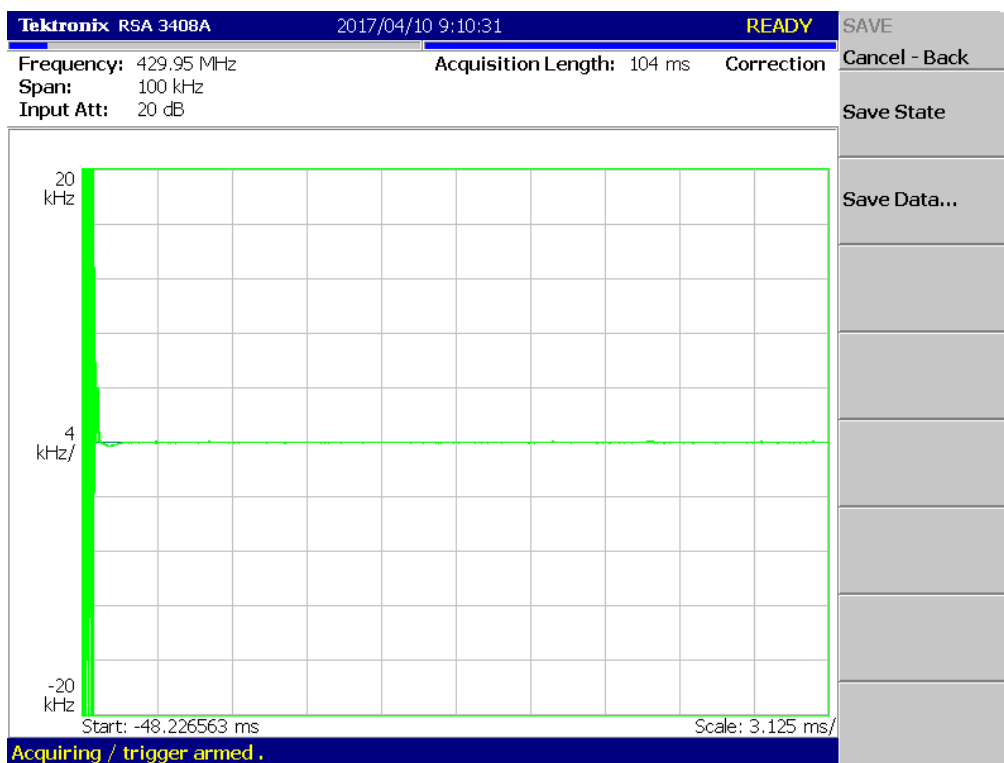
- j) Adjust the modulation domain analyzer to trigger on the falling edge of the transmitter waveform in order to capture a single-shot turn-off transient of the transmitter signal.
- k) Adjust the display of the modulation domain analyzer for proper viewing of the transmitter transient behavior. Set the time base reference to the right for observing the transmitter turn-off transient.
- l) Unkey the transmitter.
- m) Observe the stored display of the modulation domain analyzer. The signal trace shall be maintained within the allowable limits during the period  $t_3$ .

■ Plots of Transient Frequency Behavior

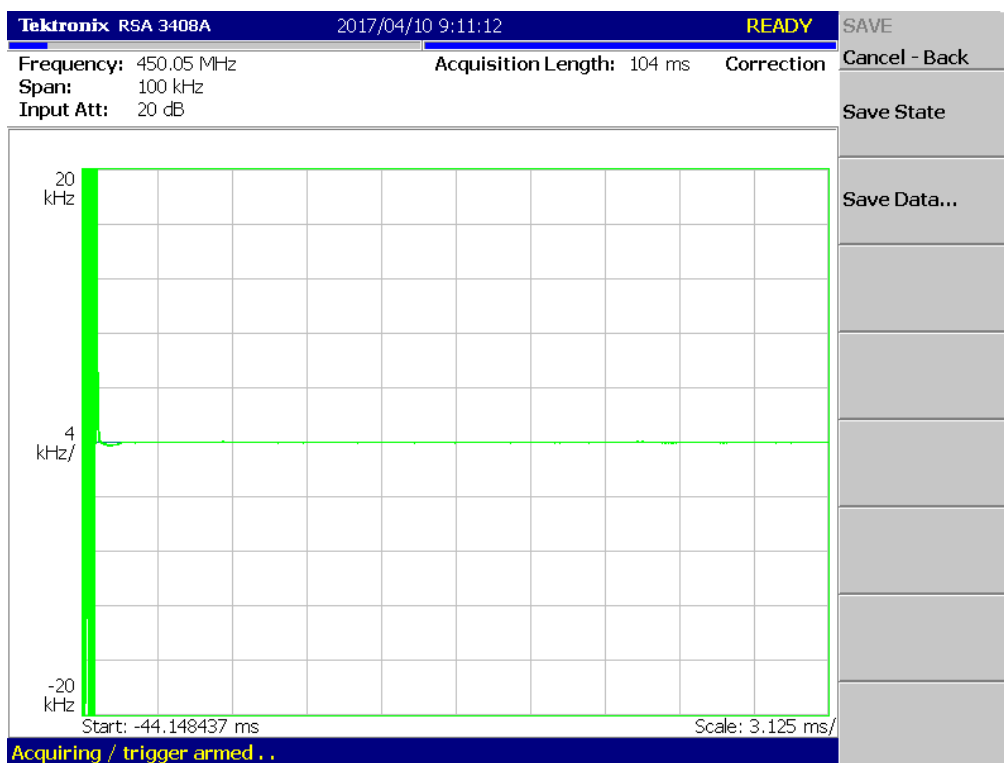
(11K0F3E \_ 406.15 MHz)\_High



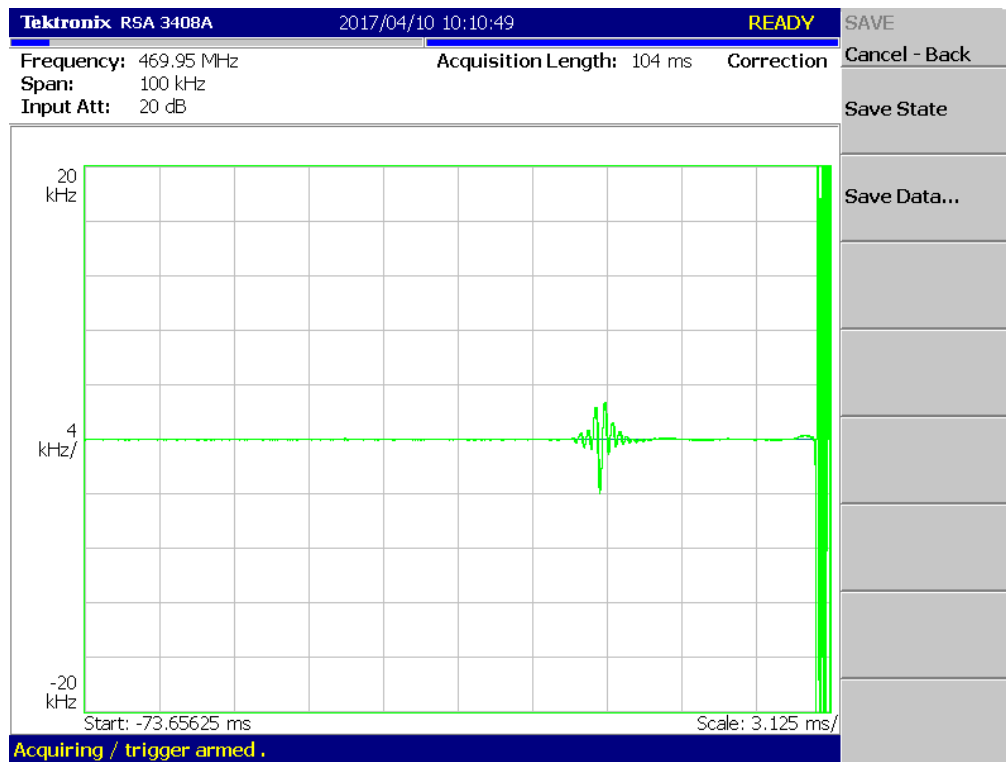
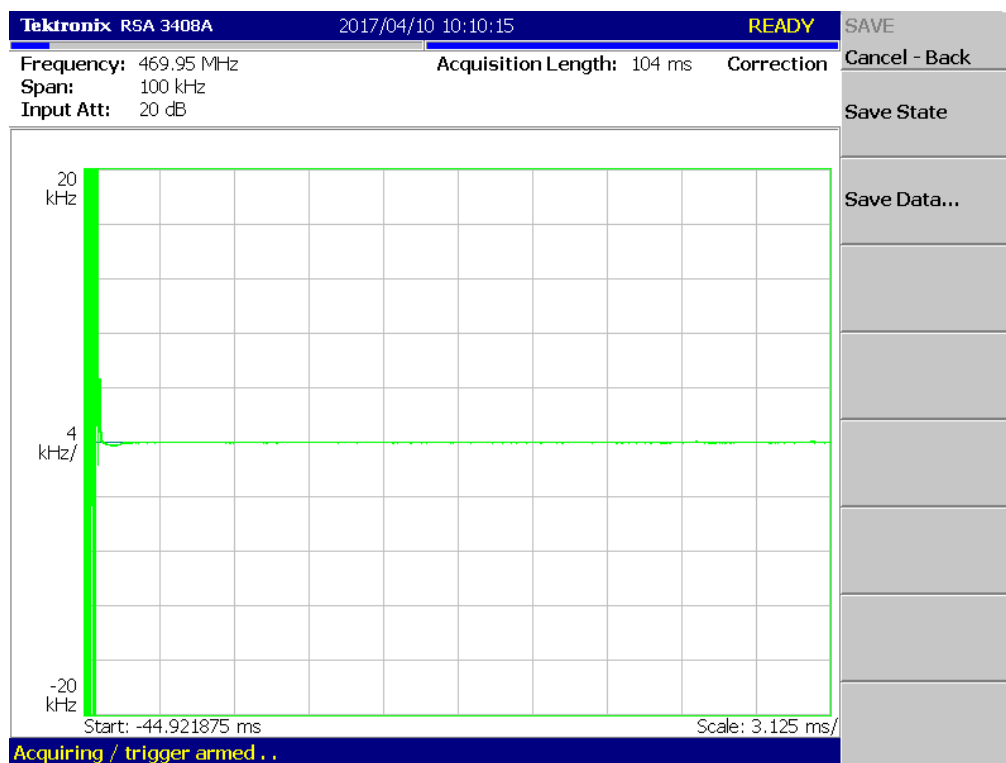
## (11K0F3E \_ 429.95 MHz)\_High



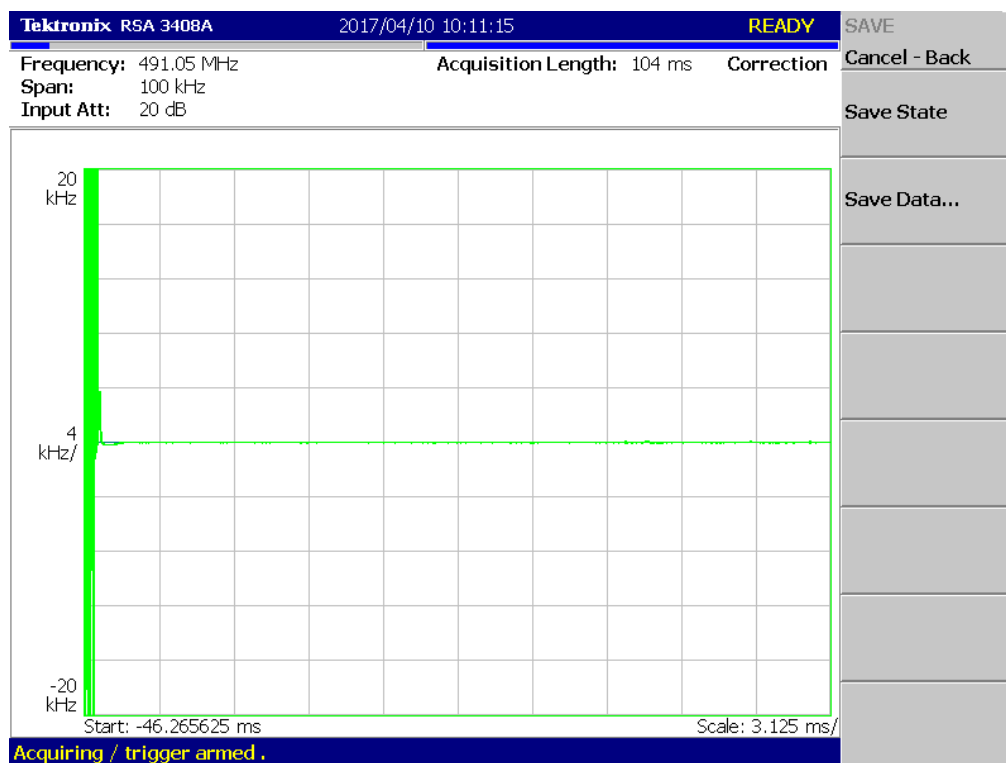
## (11K0F3E \_ 450.05 MHz)\_High



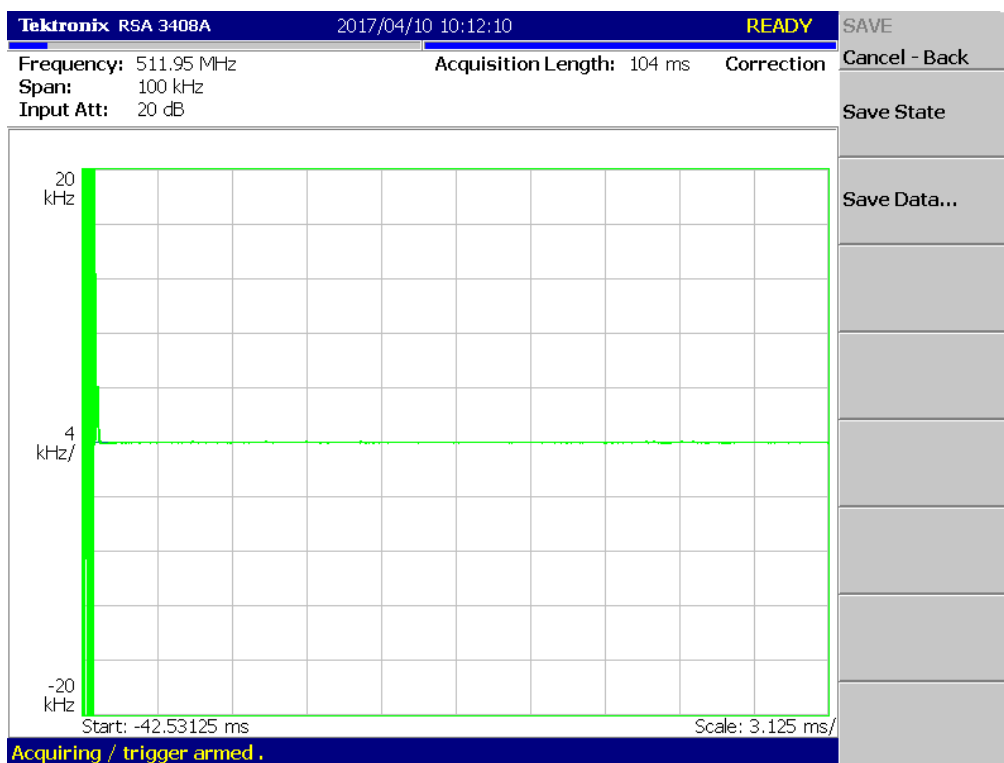
## (11K0F3E \_ 469.95 MHz)\_High



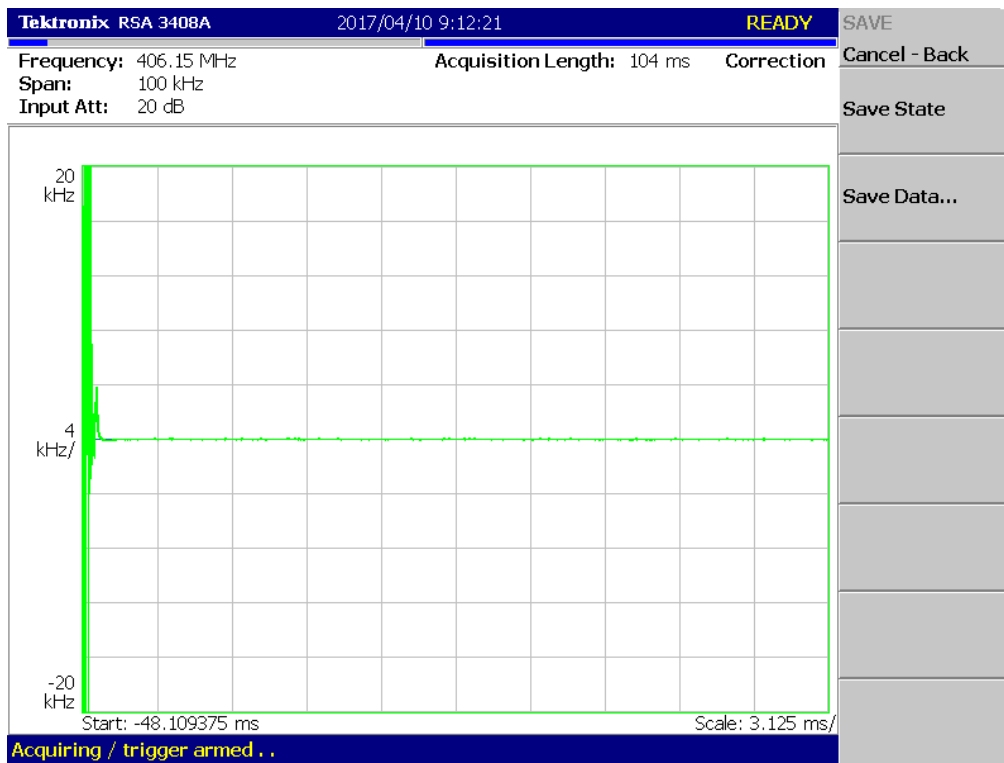
## (11K0F3E \_ 491.05 MHz)\_High



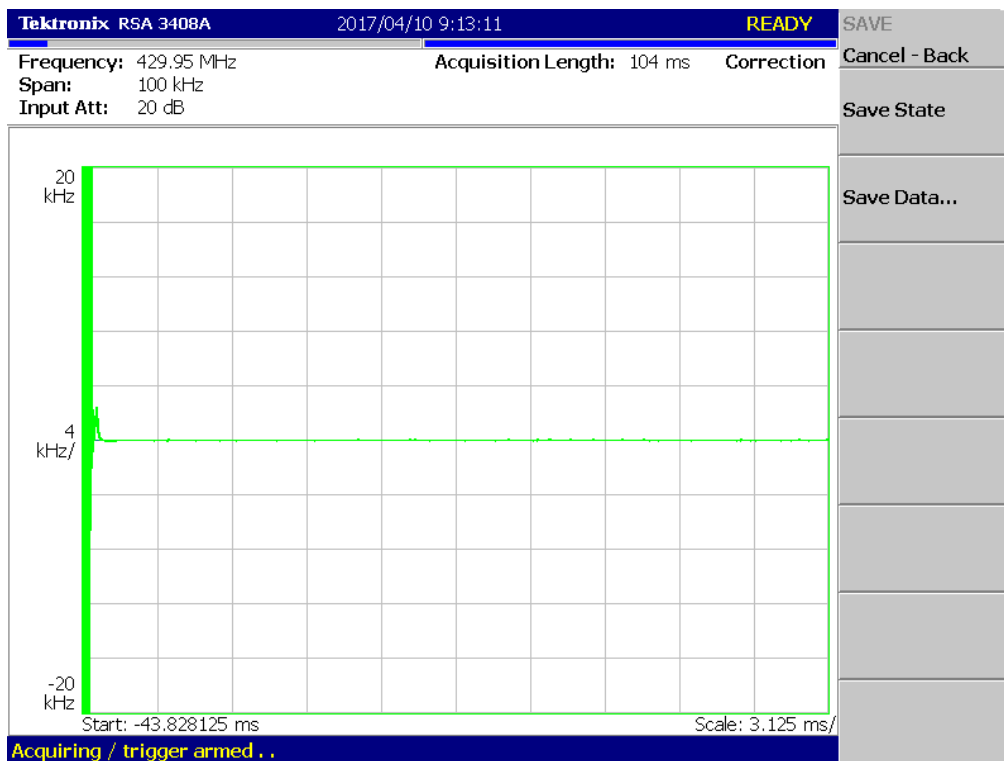
## (11K0F3E \_ 511.95 MHz)\_High



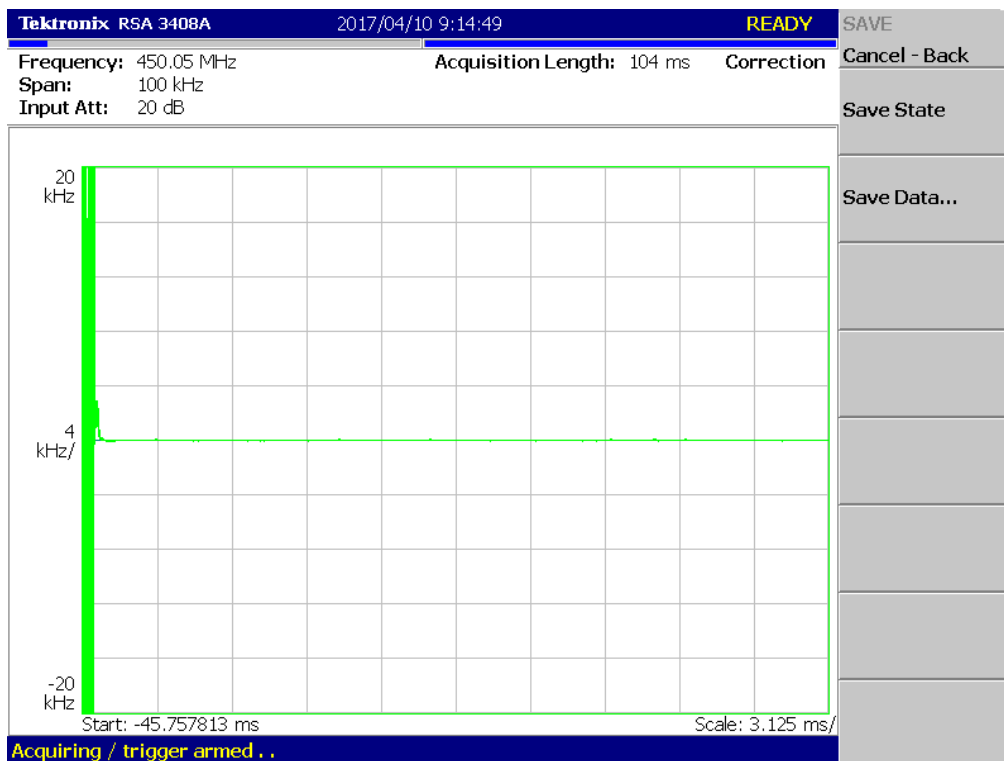
(11K0F3E \_ 406.15 MHz)\_Low



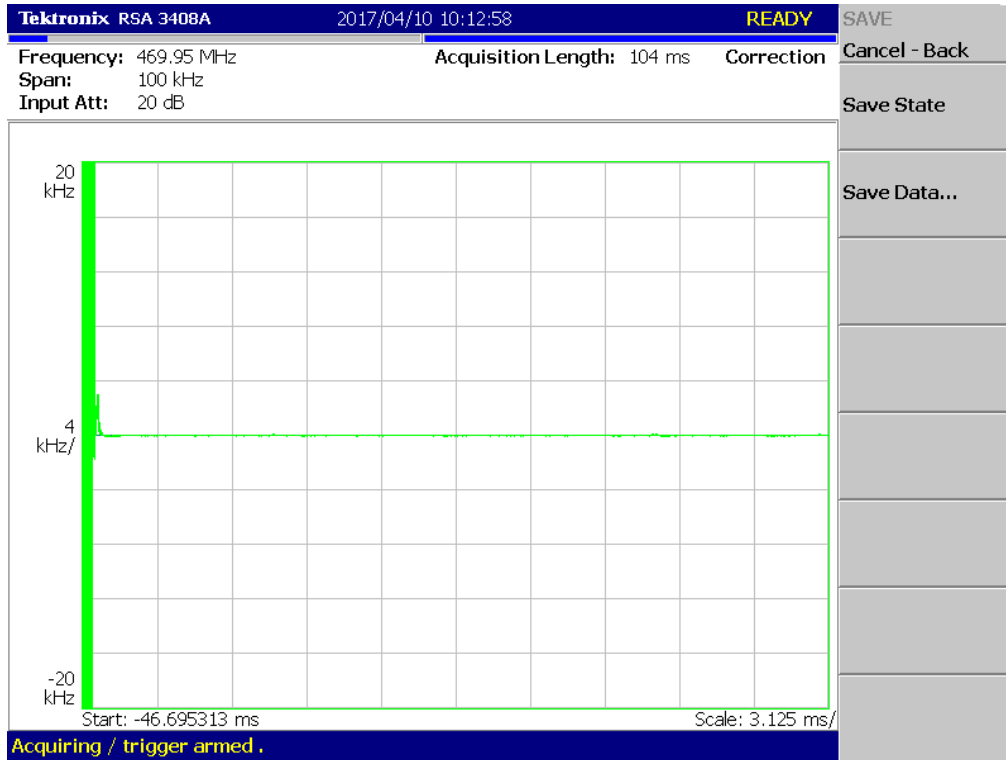
## (11K0F3E \_ 429.95 MHz)\_Low



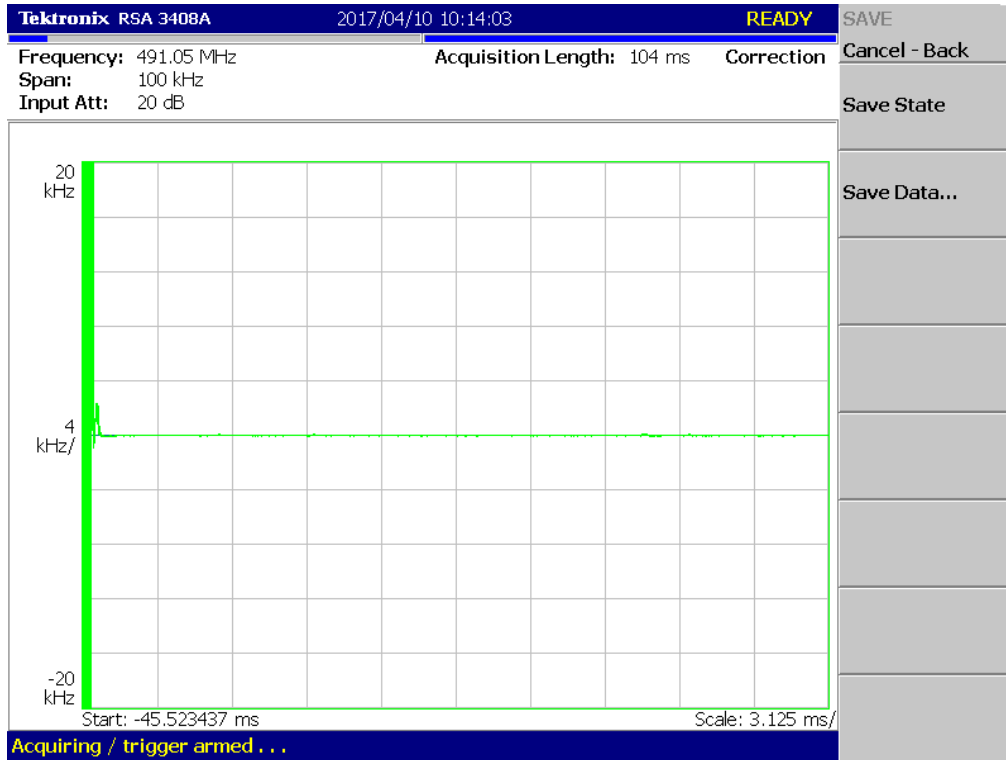
## (11K0F3E \_ 450.05 MHz)\_Low



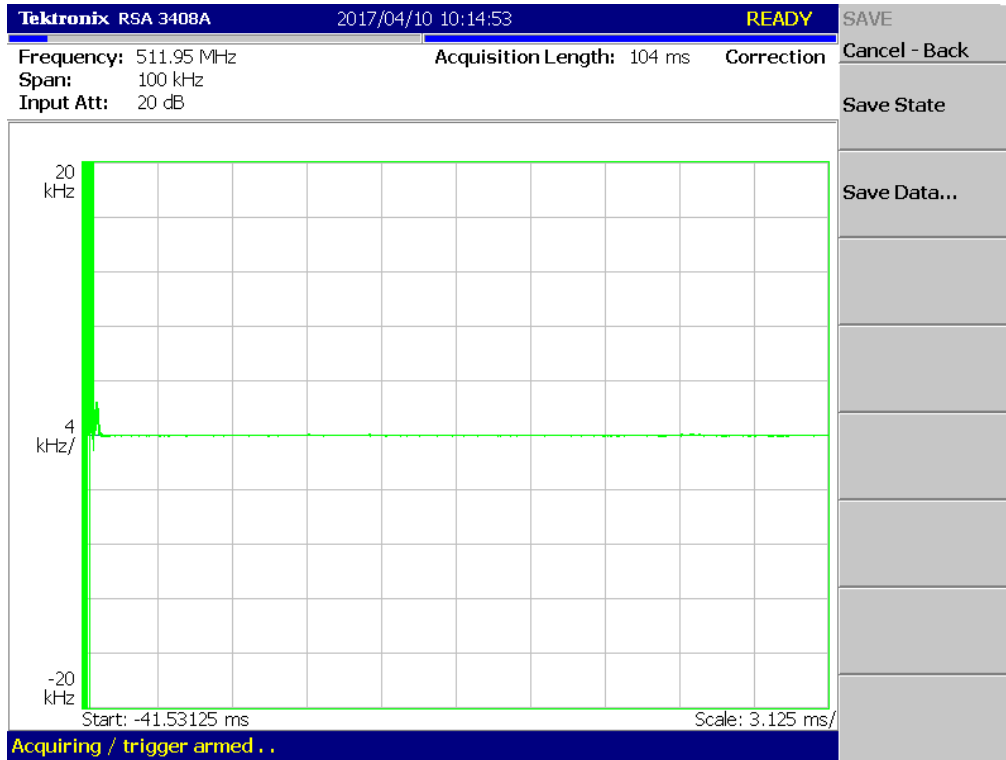
(11K0F3E \_ 469.95 MHz)\_Low



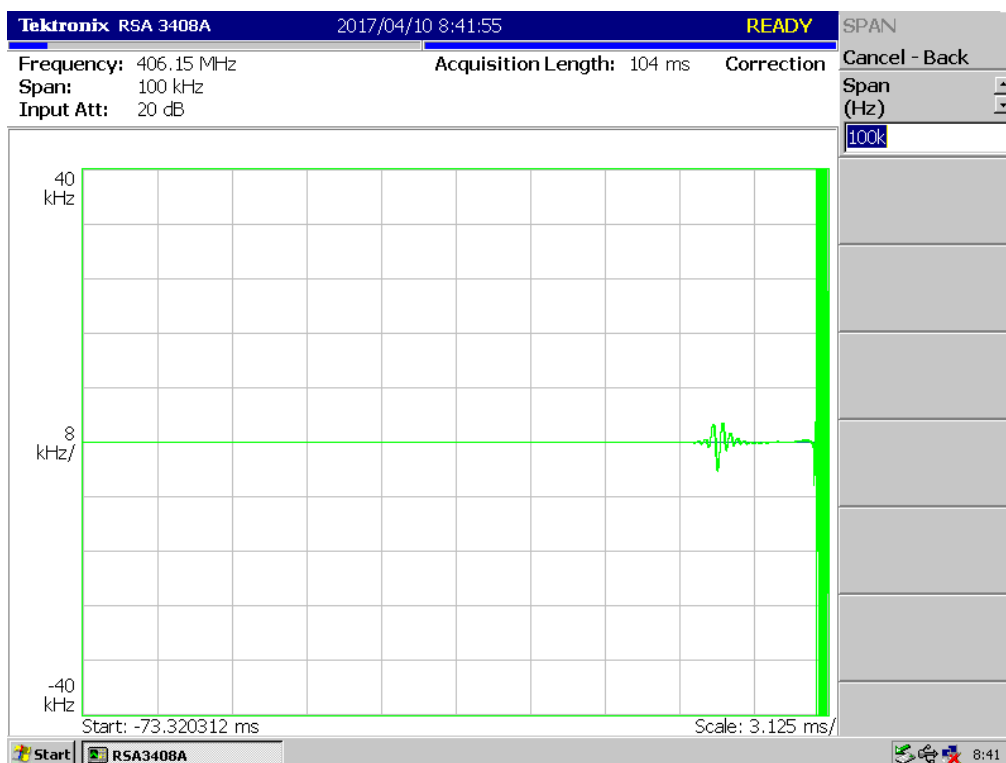
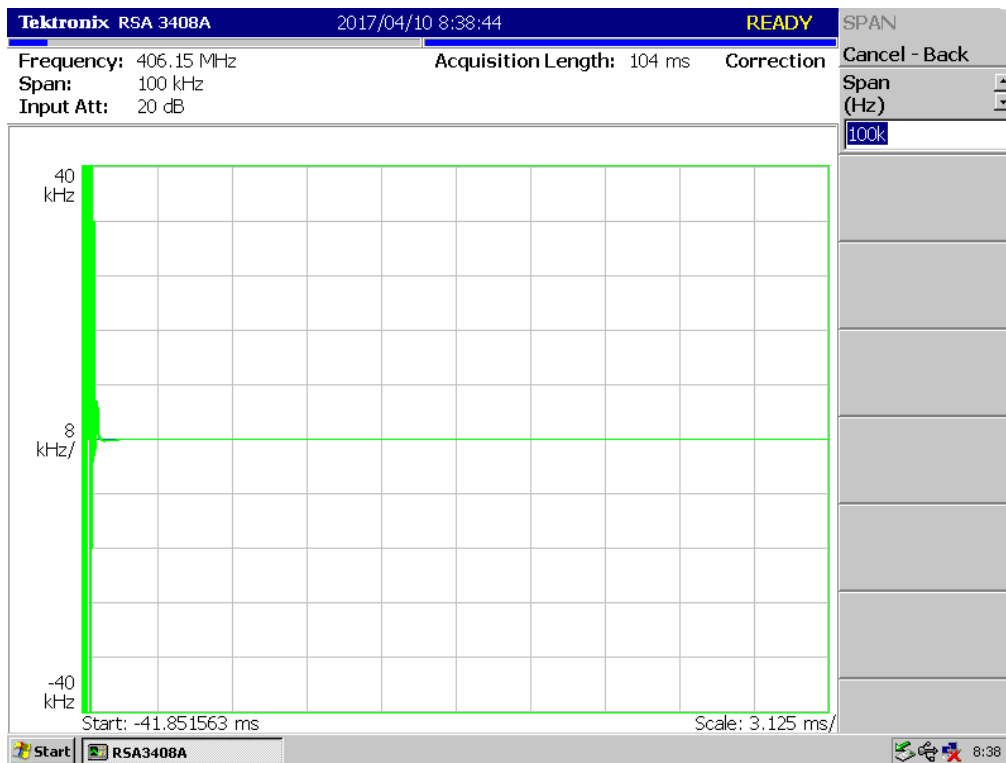
## (11K0F3E \_ 491.05 MHz)\_Low



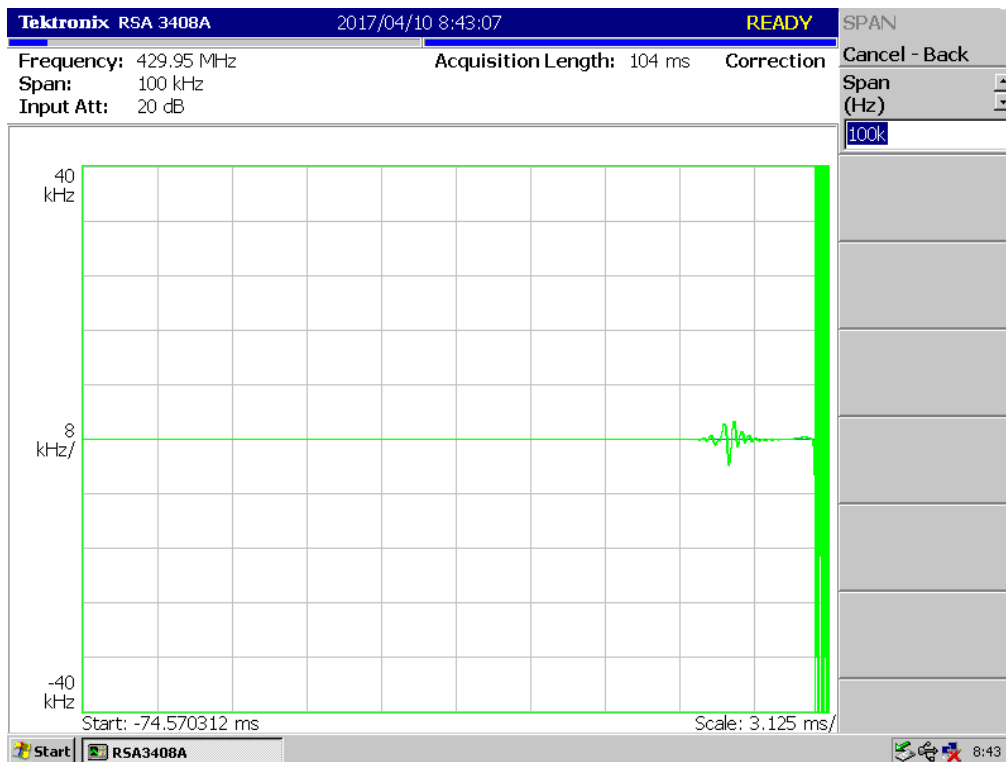
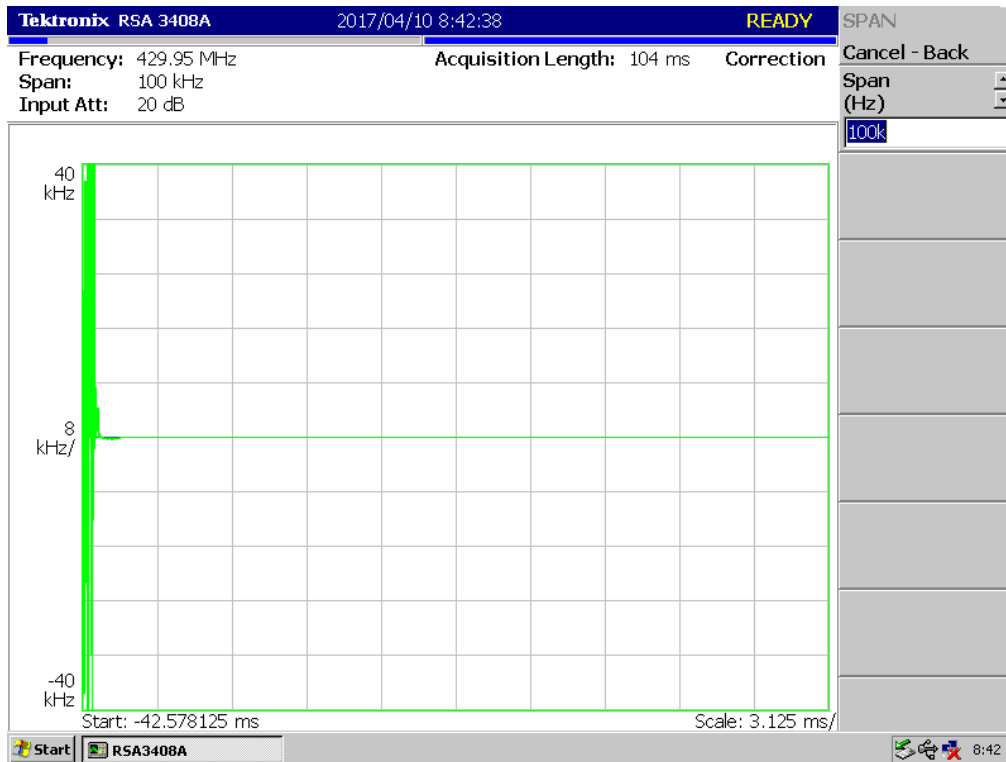
(11K0F3E \_ 511.95 MHz)\_Low



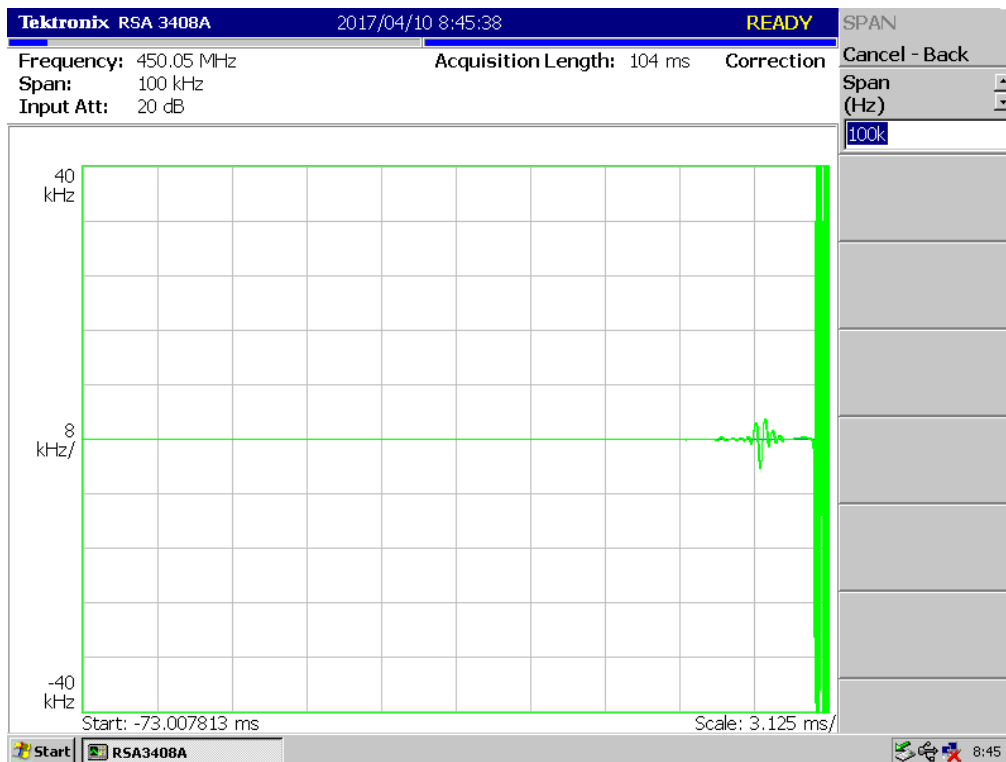
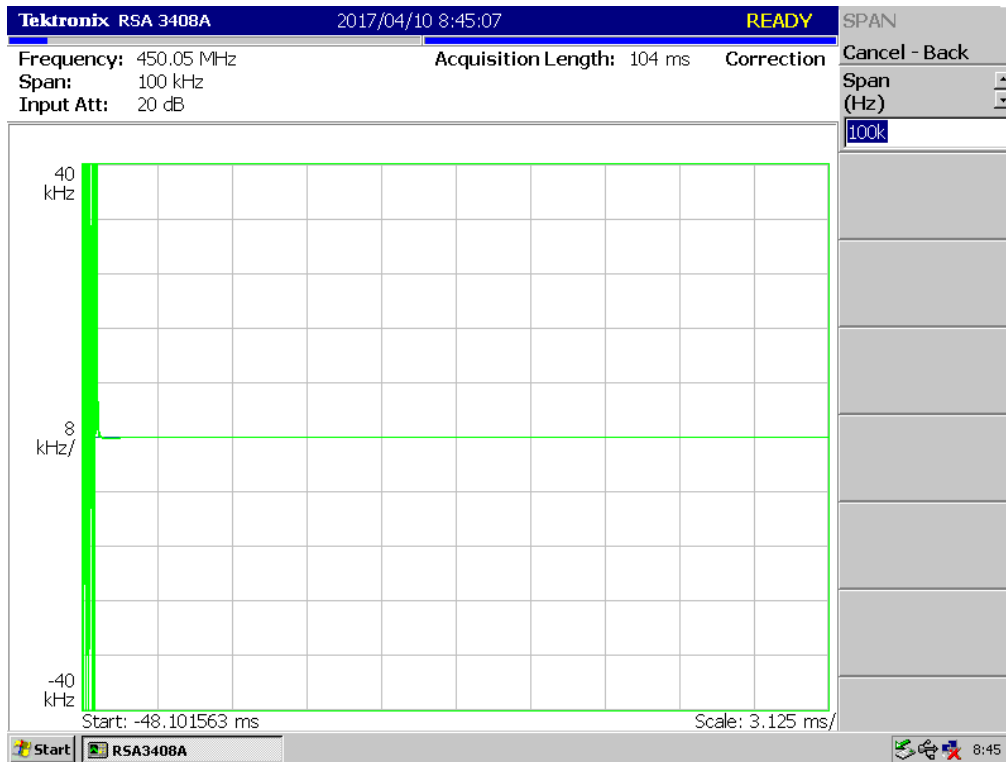
(16K0F3E \_ 406.15 MHz)\_High



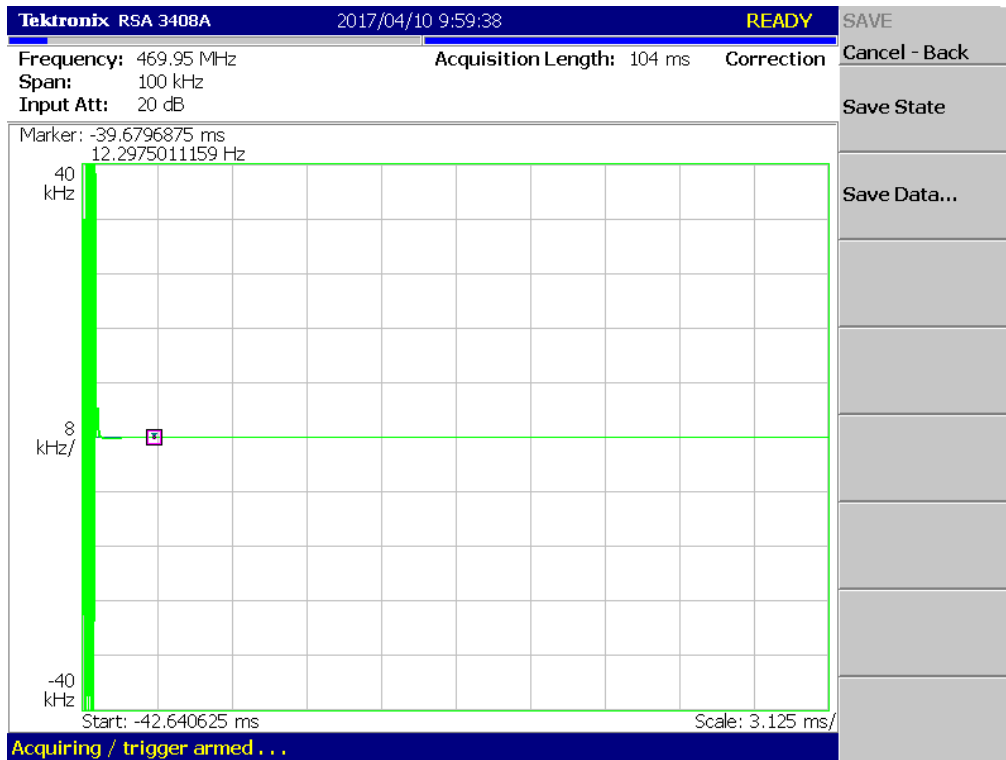
(16K0F3E \_ 429.95 MHz)\_High



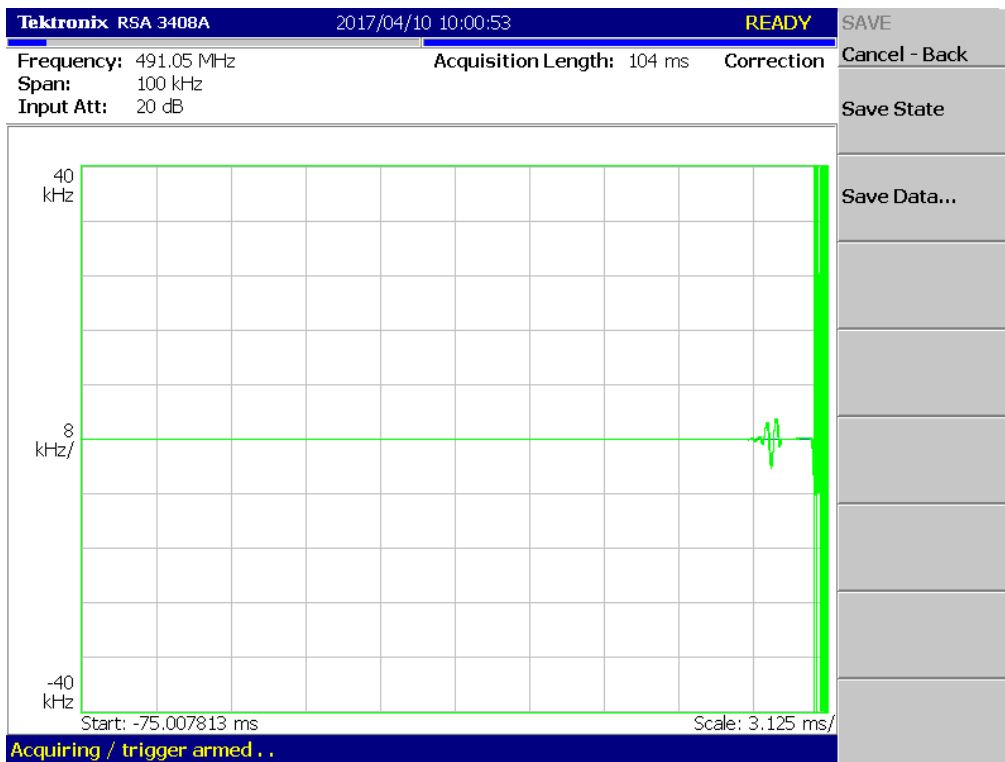
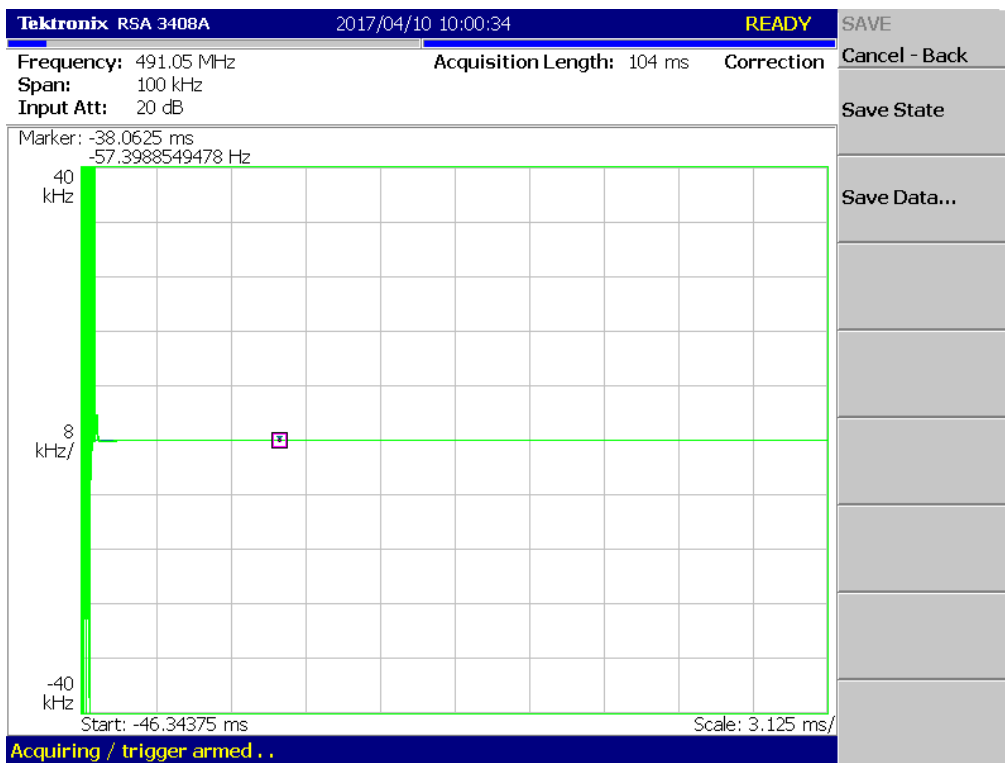
(16K0F3E \_ 450.05 MHz)\_High



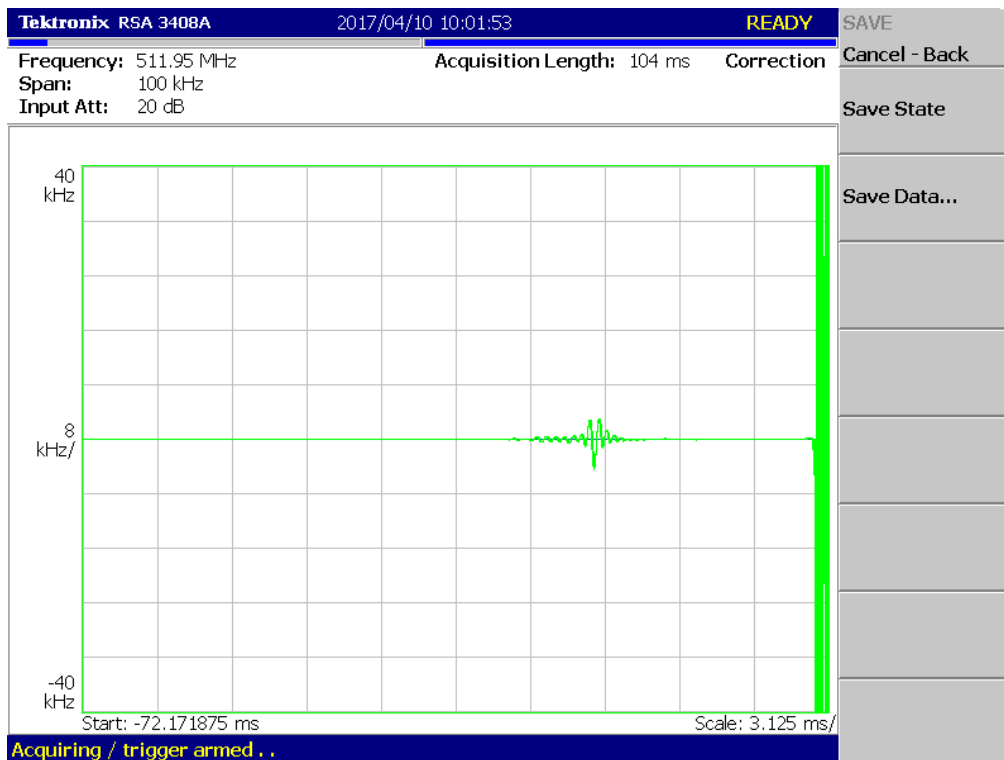
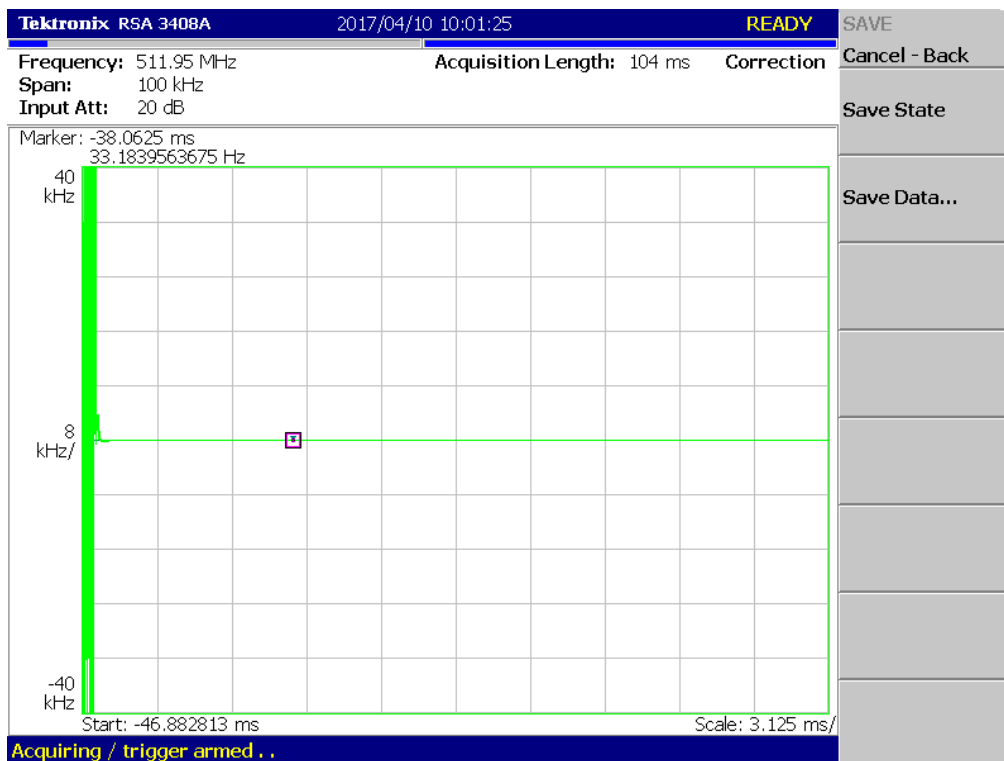
(16K0F3E \_ 469.95 MHz)\_High



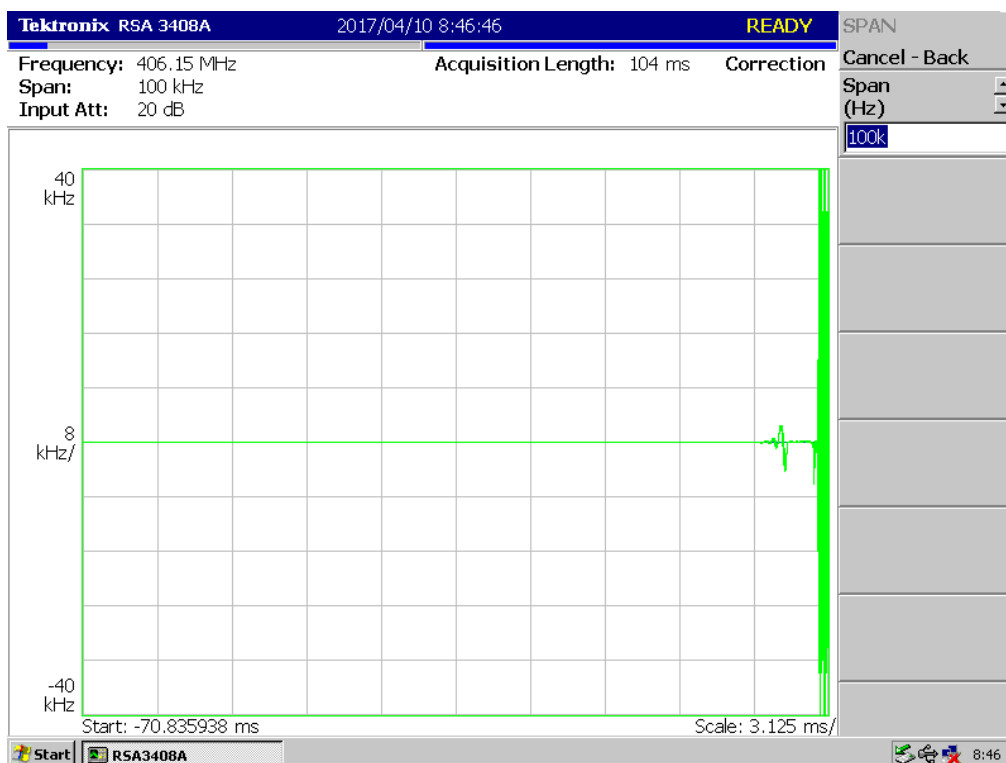
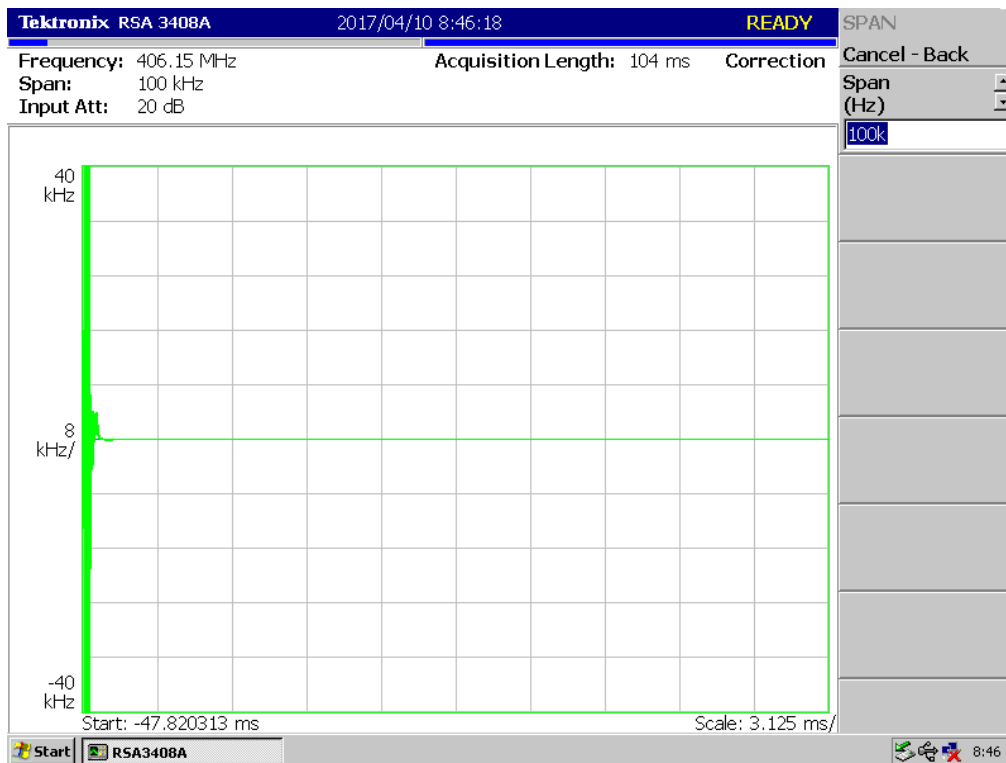
## (16K0F3E \_ 491.05 MHz)\_High



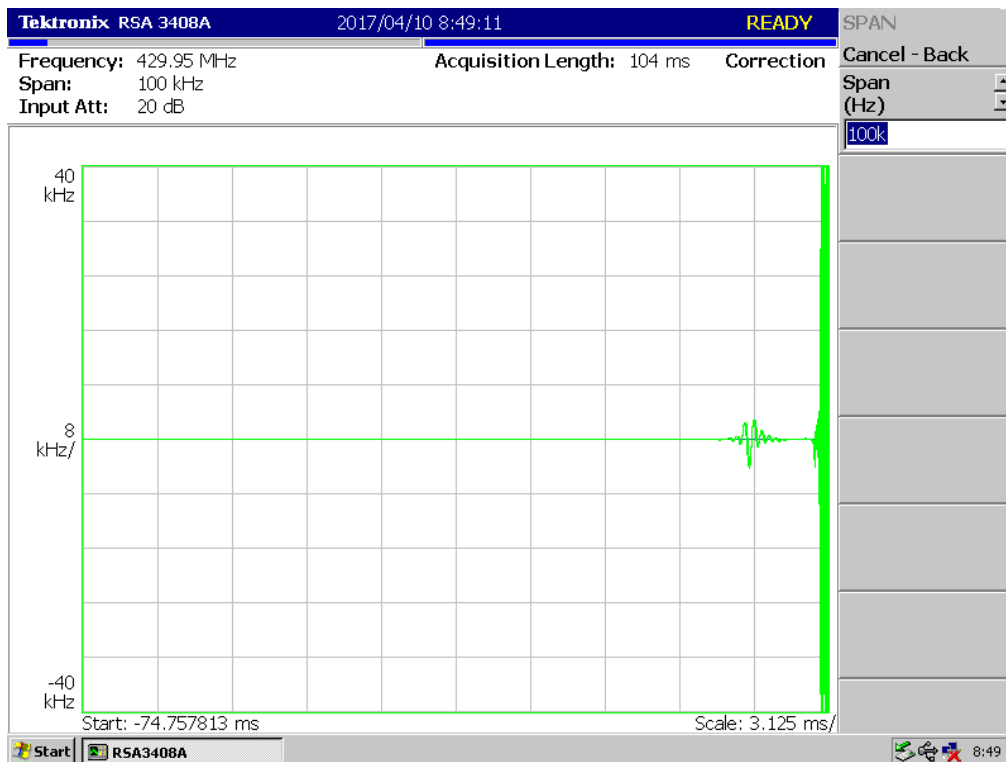
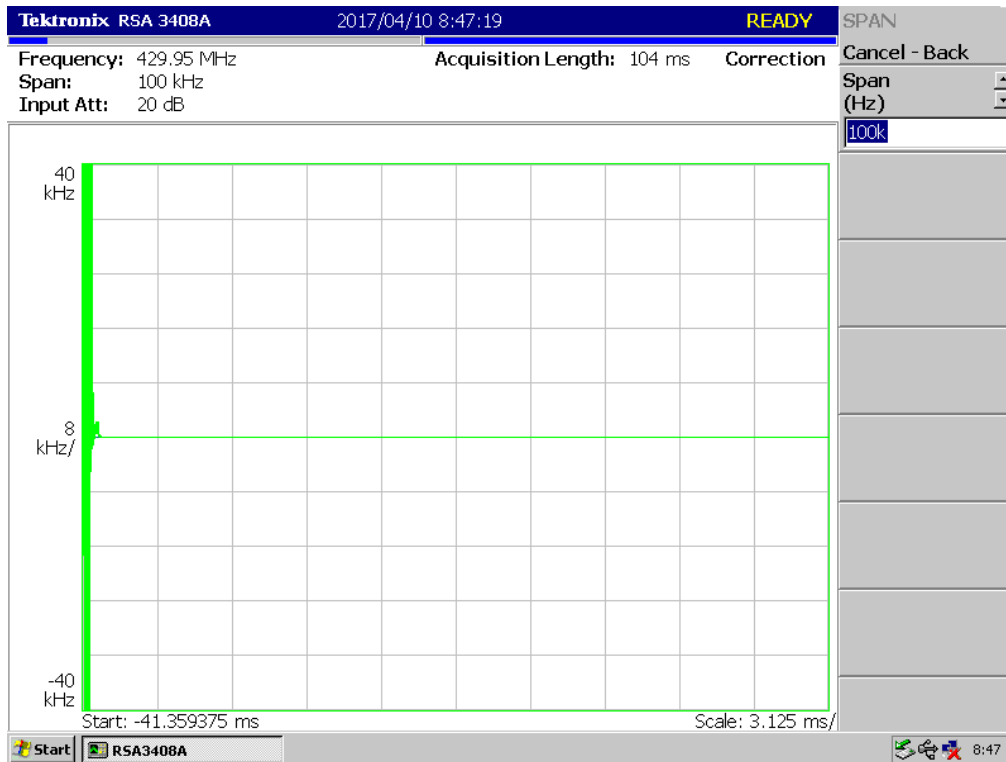
## (16K0F3E \_ 511.95 MHz)\_High



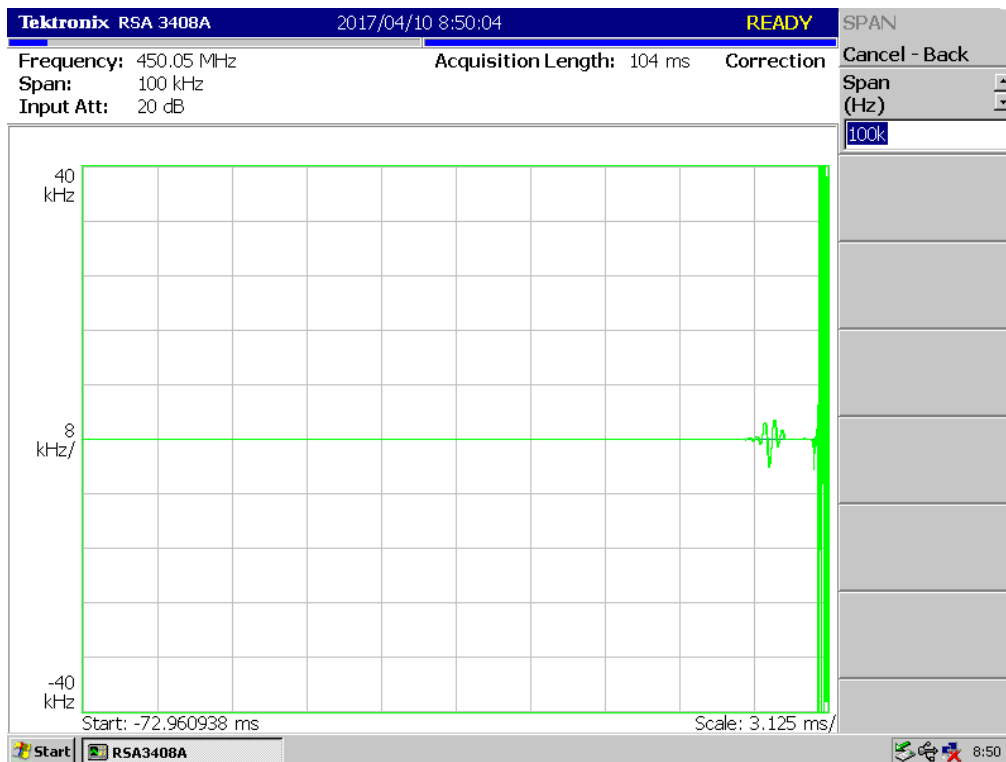
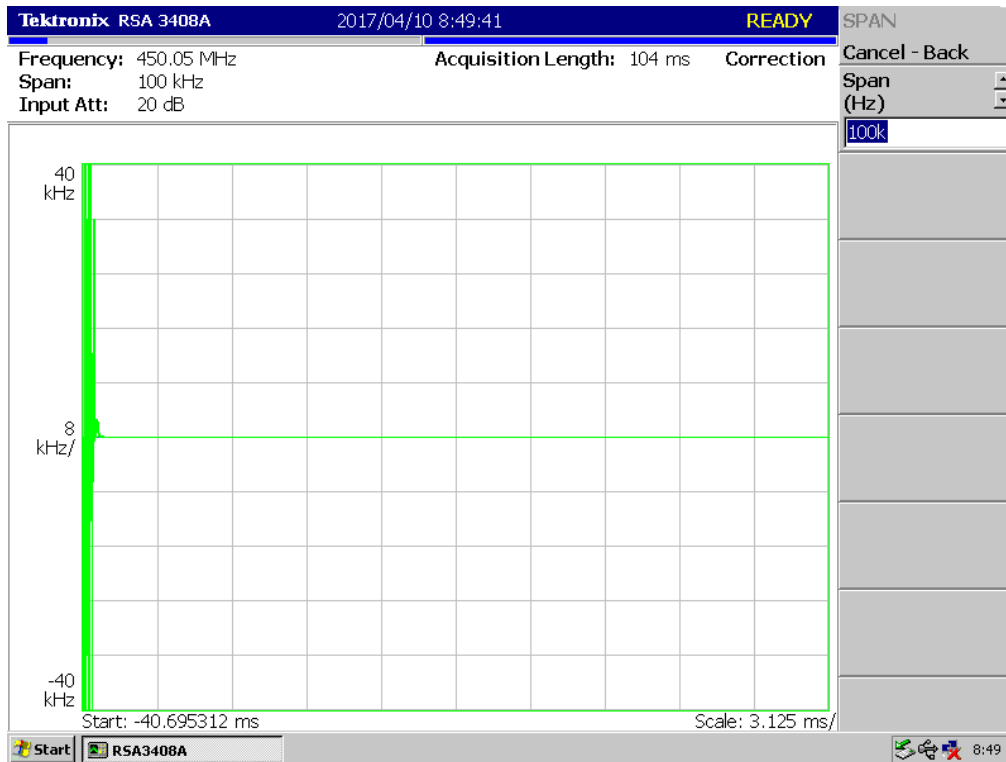
(16K0F3E \_ 406.15 MHz)\_Low



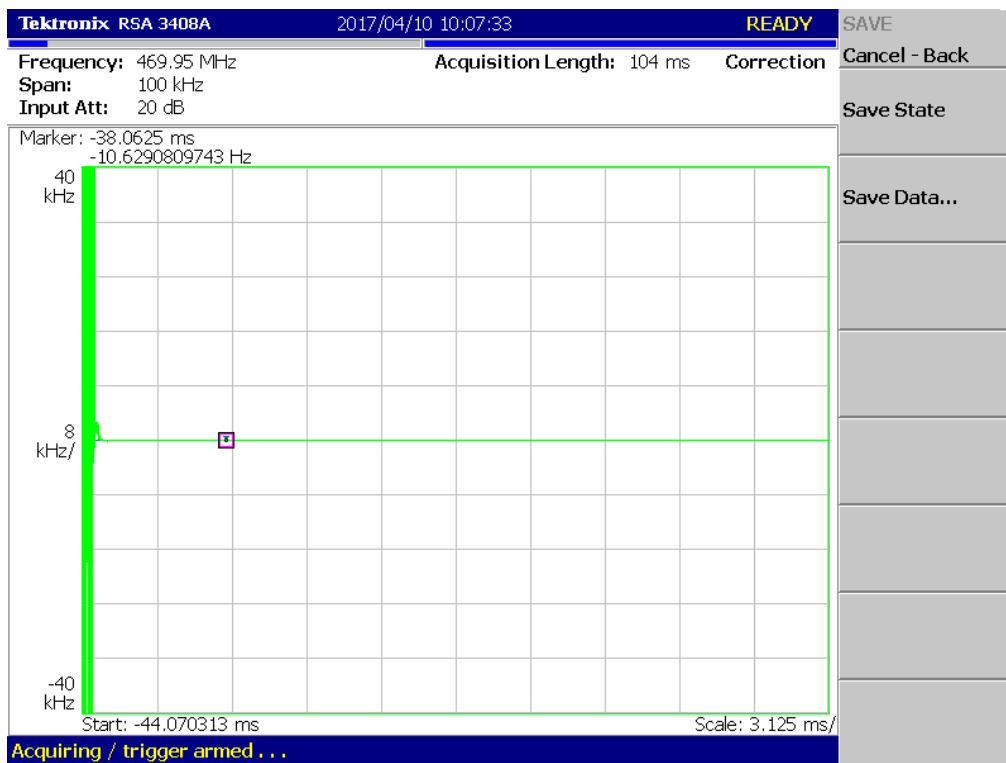
(16K0F3E \_ 429.95 MHz)\_Low



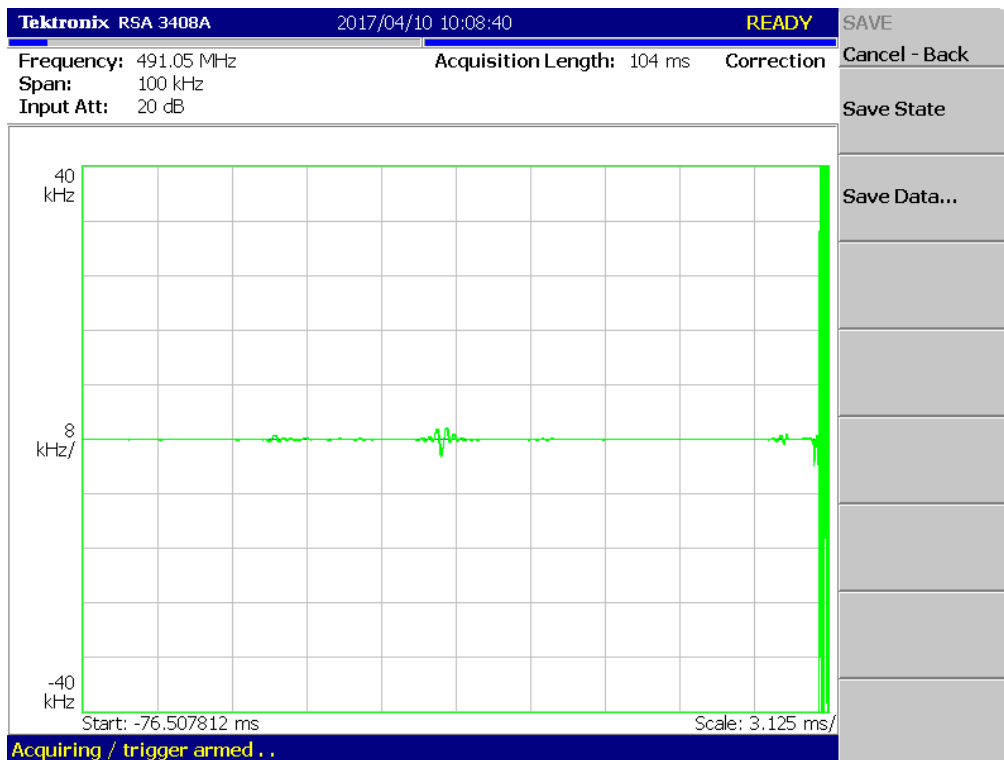
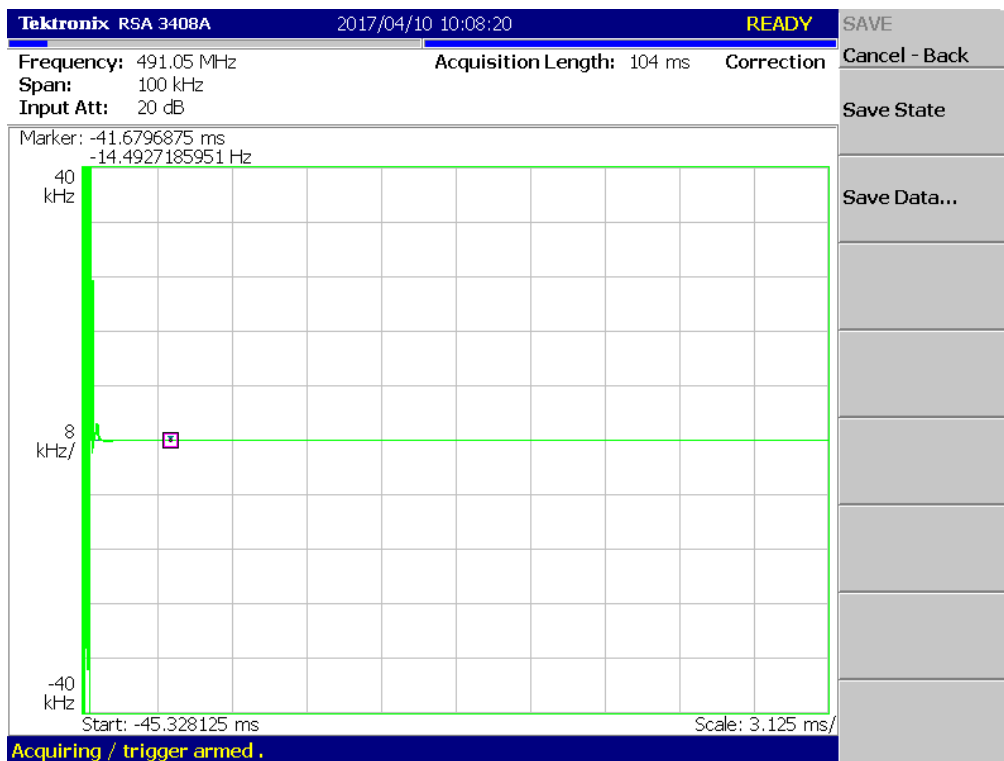
(16K0F3E \_ 450.05 MHz)\_Low



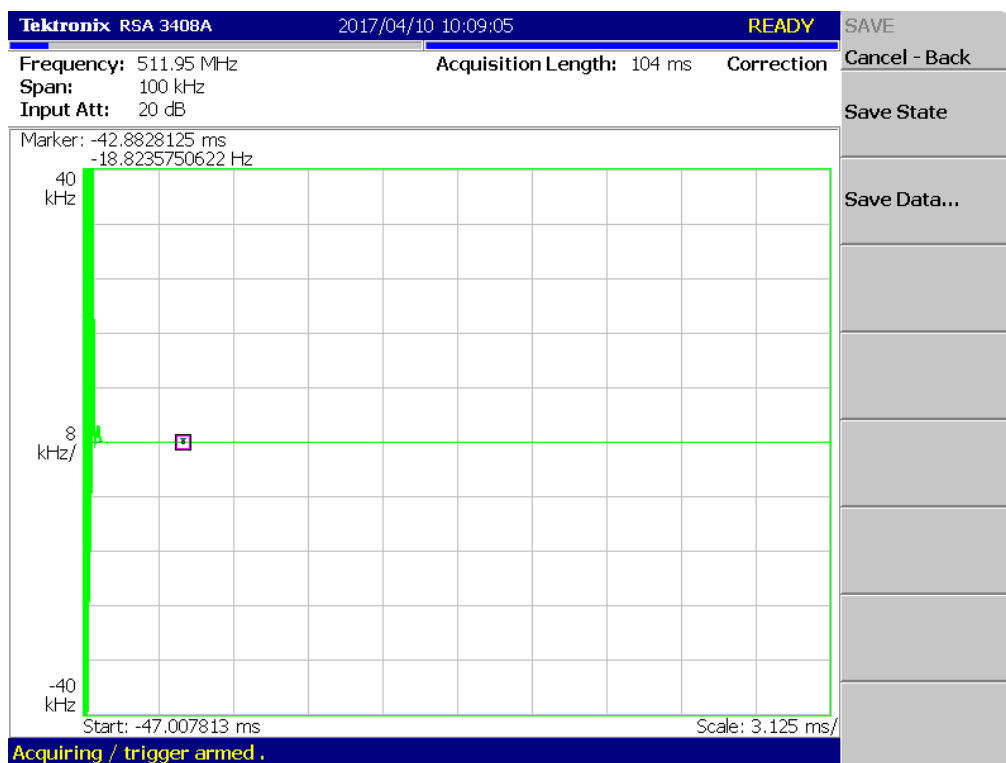
## (16K0F3E \_ 469.95 MHz)\_Low



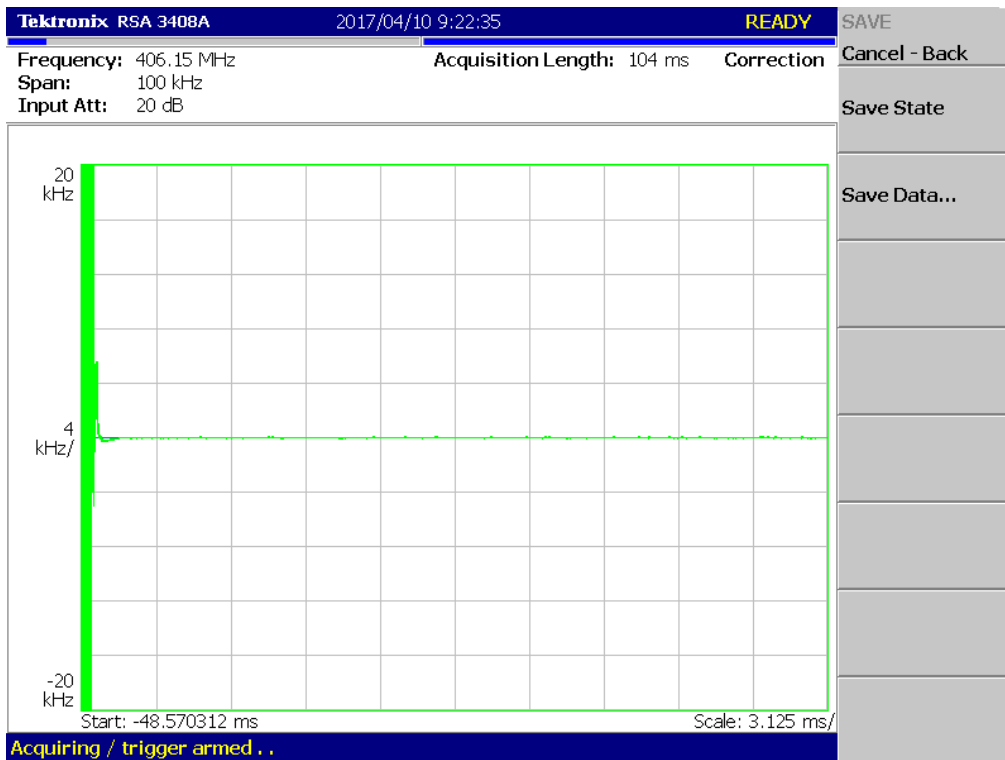
## (16K0F3E \_ 491.05 MHz)\_Low



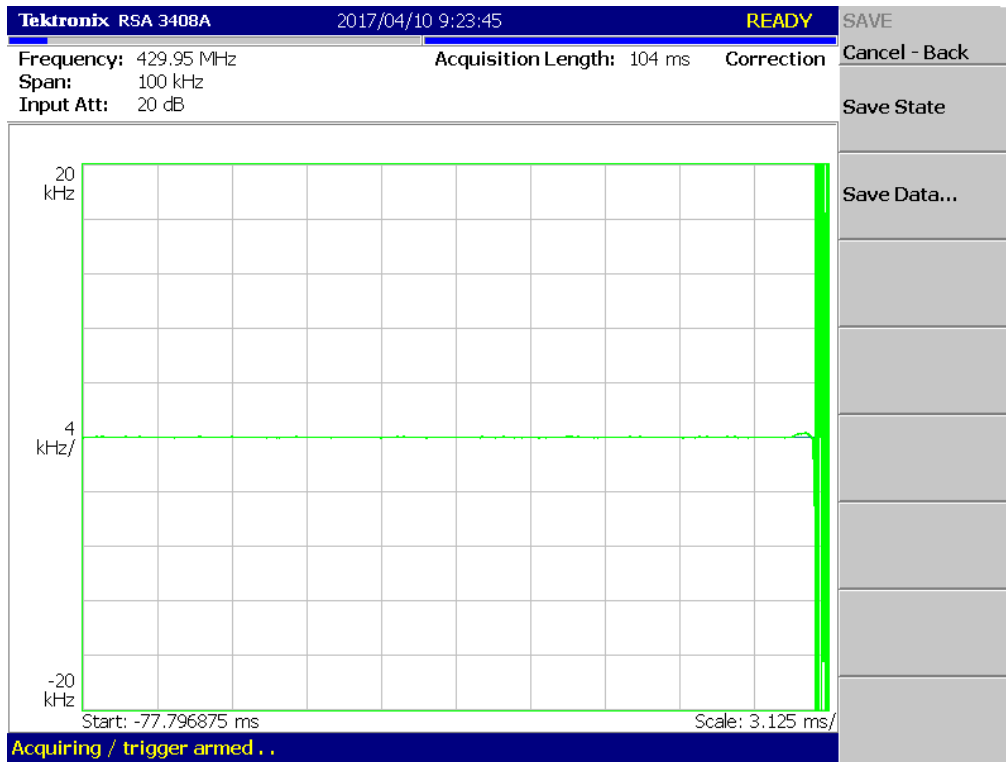
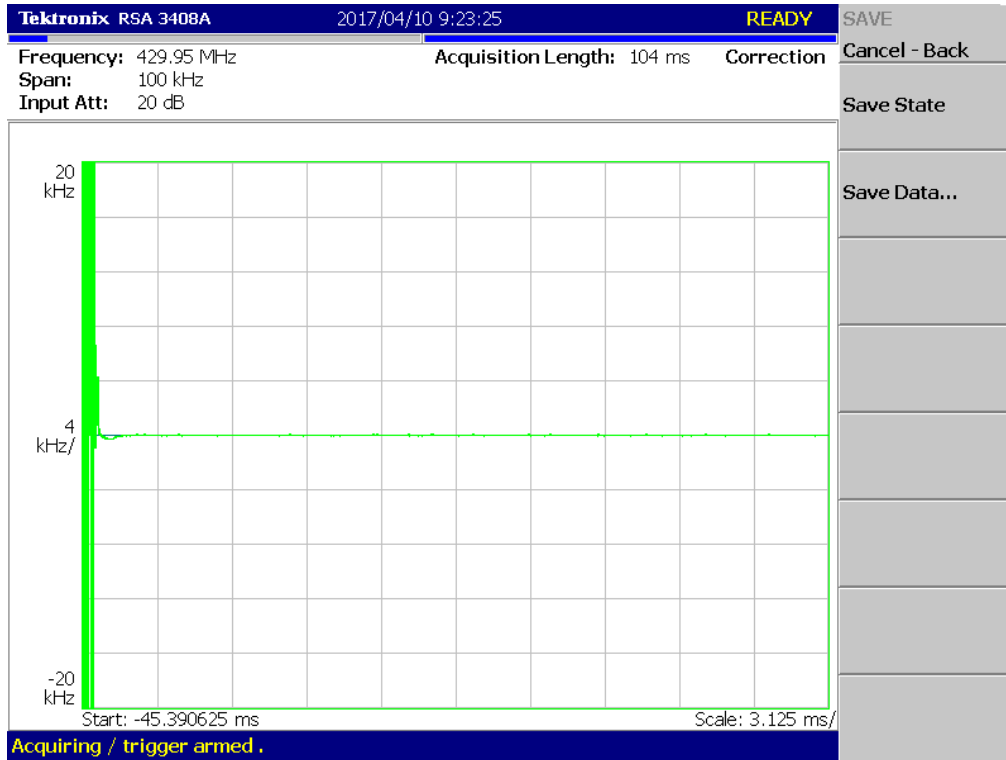
## (16K0F3E \_ 511.95 MHz)\_Low



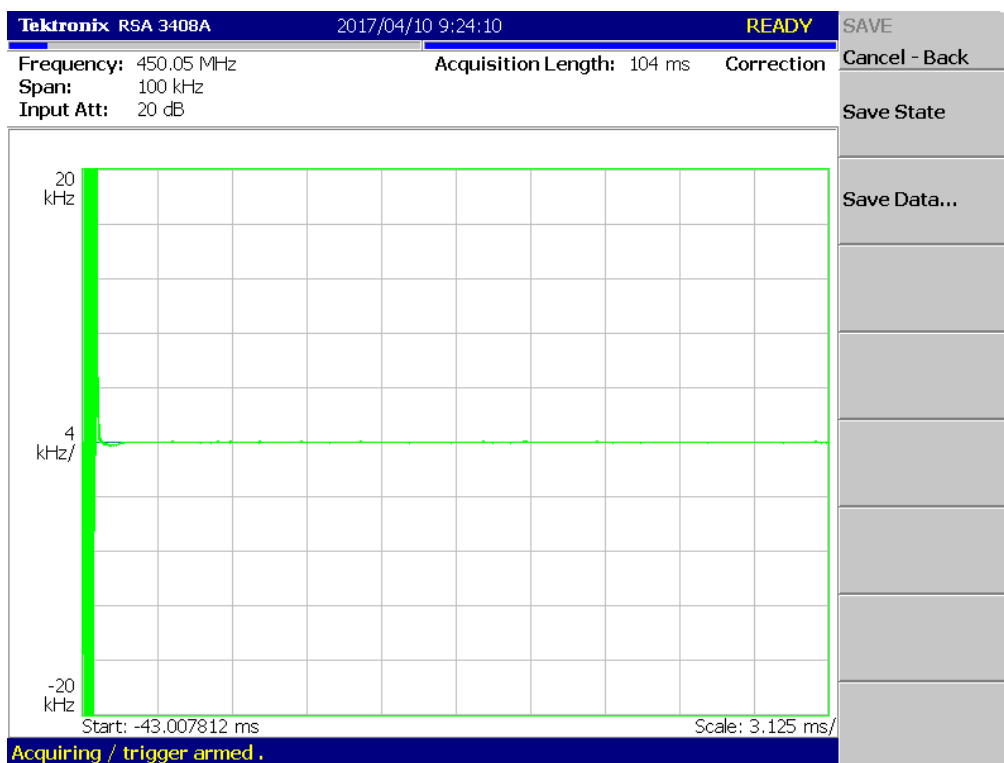
## (7K60FXD, 7K60FXE \_ 406.15 MHz)\_High



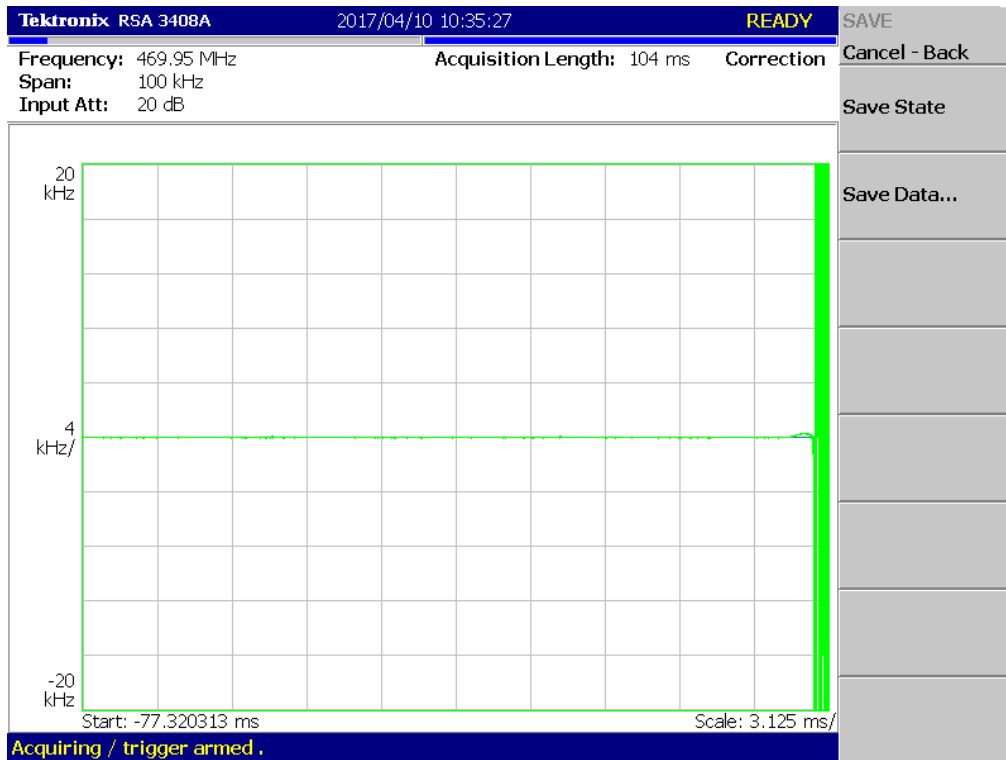
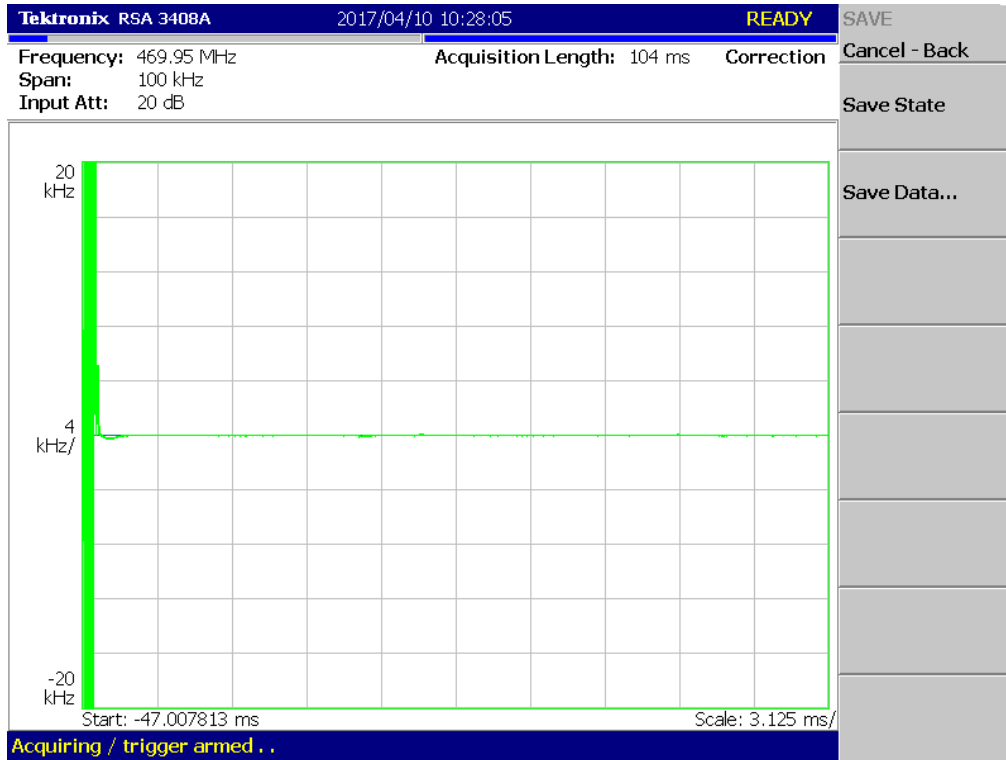
## (7K60FXD, 7K60FXE \_ 429.95 MHz)\_High



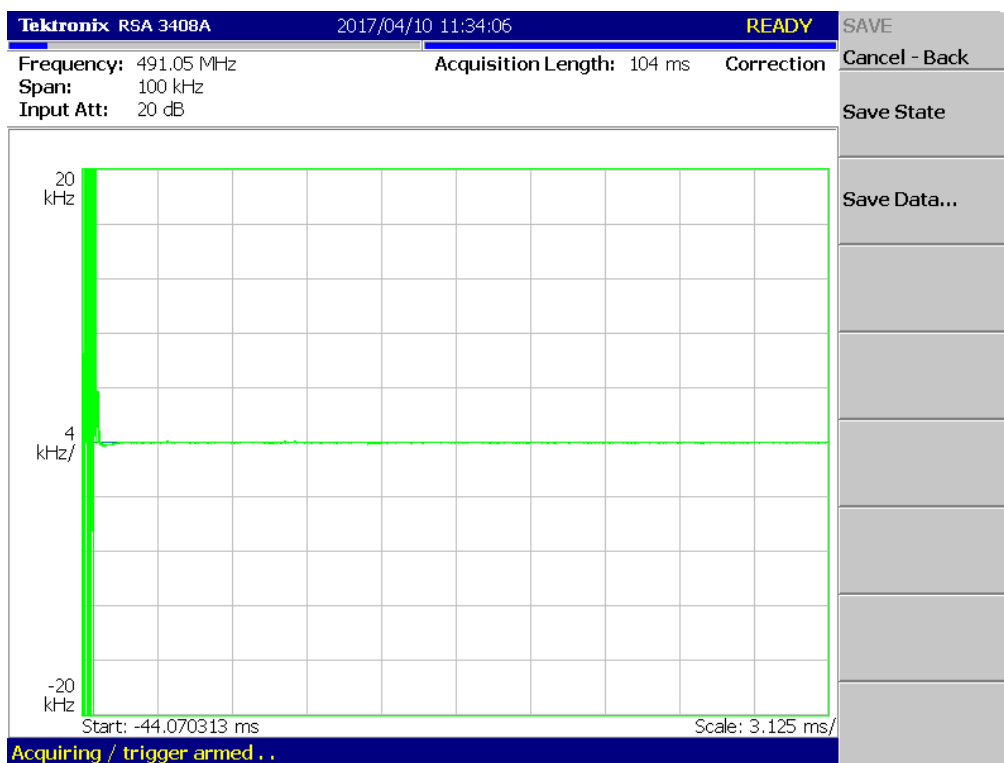
## (7K60FXD, 7K60FXE \_ 450.05 MHz)\_High



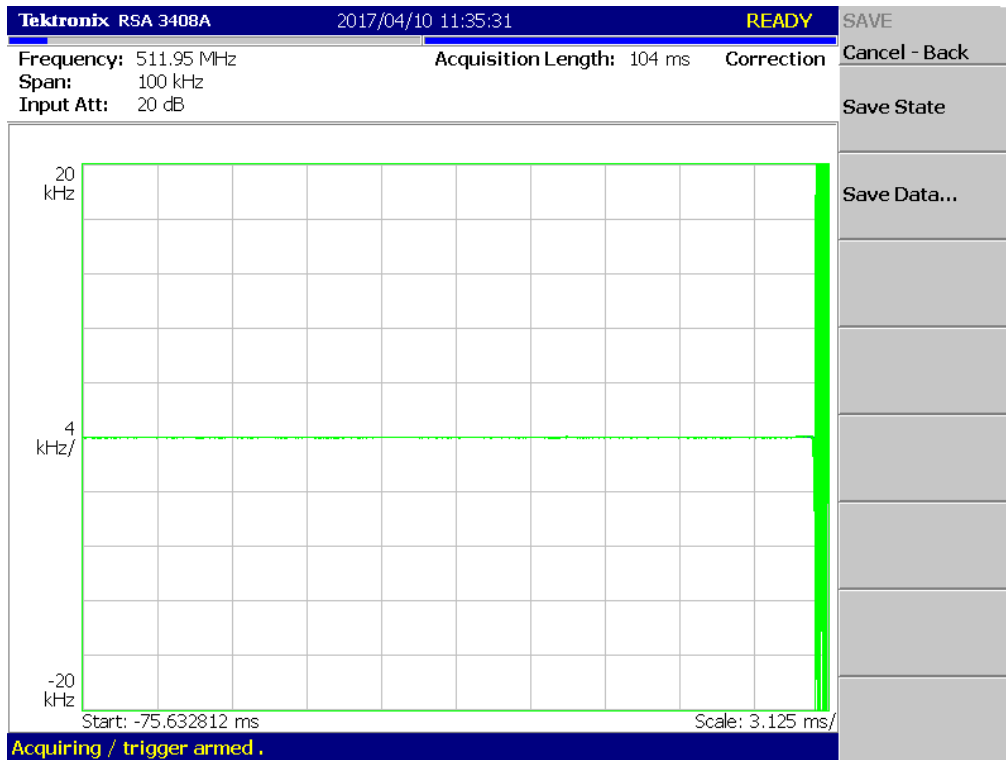
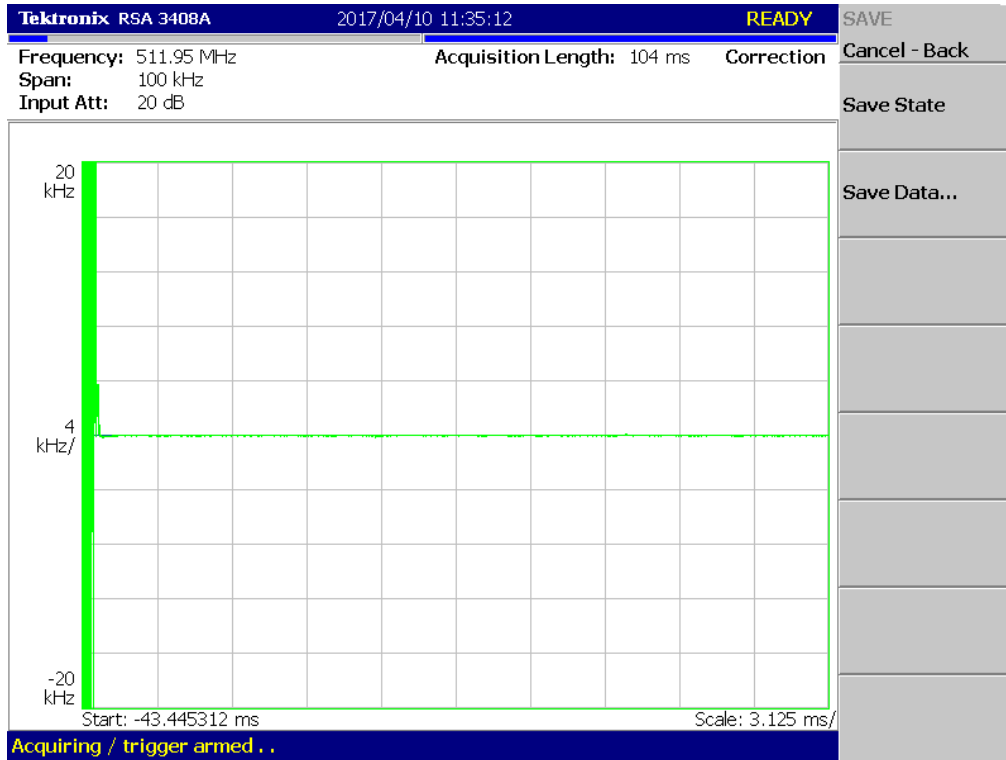
## (7K60FXD, 7K60FXE \_ 469.95 MHz)\_High



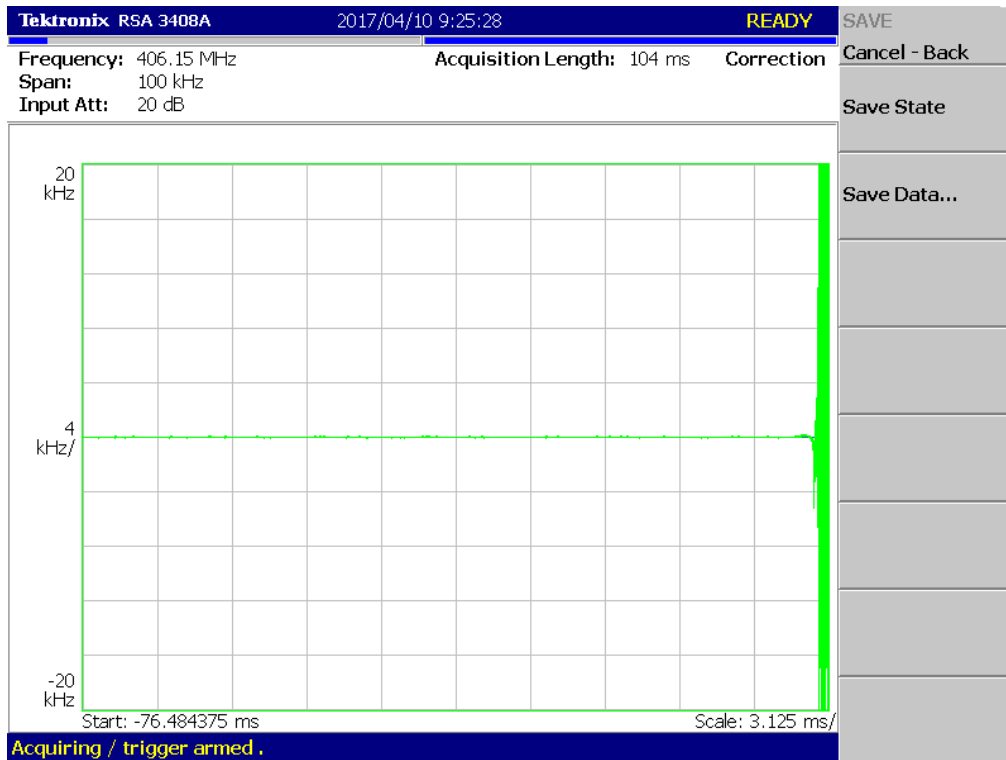
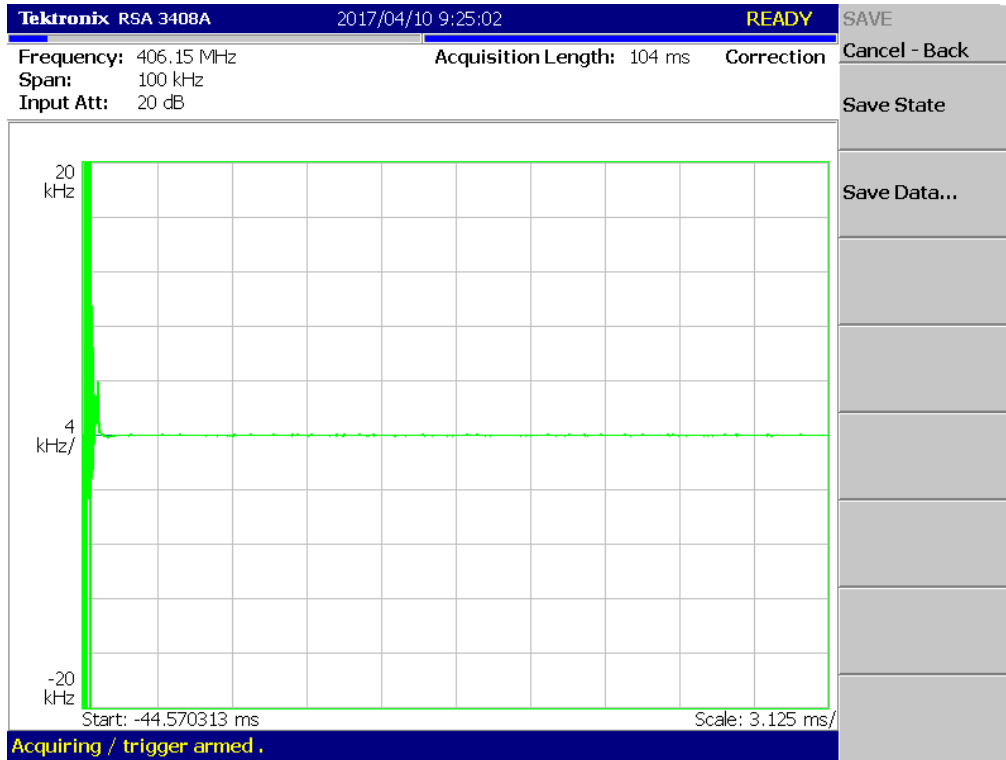
## (7K60FXD, 7K60FXE \_ 491.05 MHz)\_High



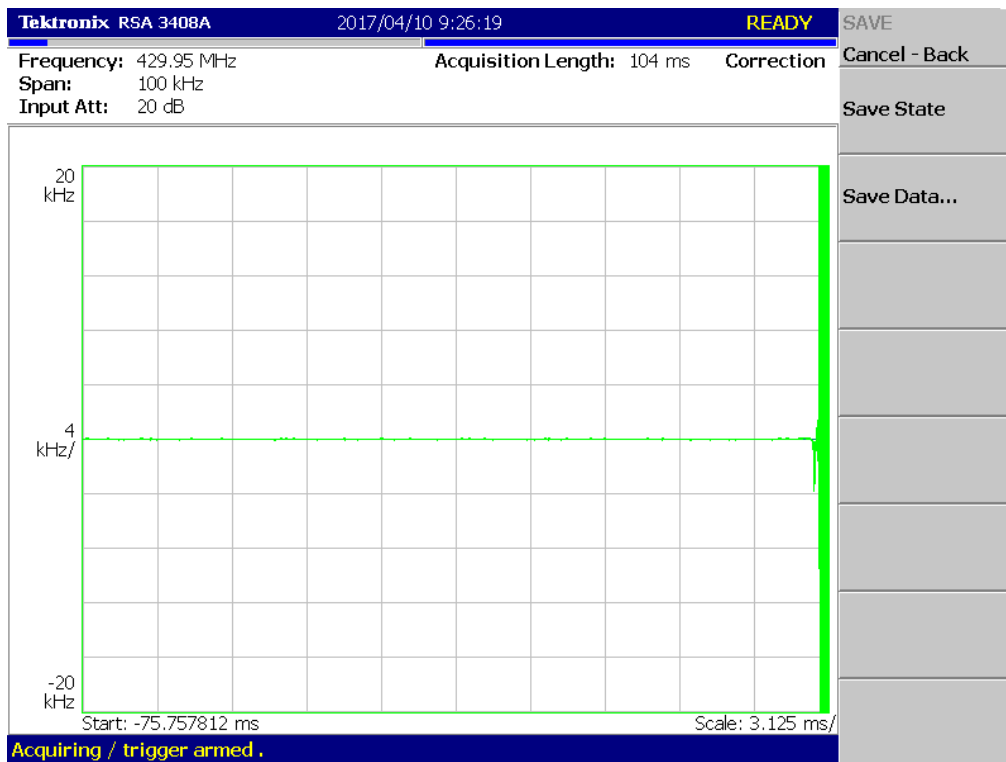
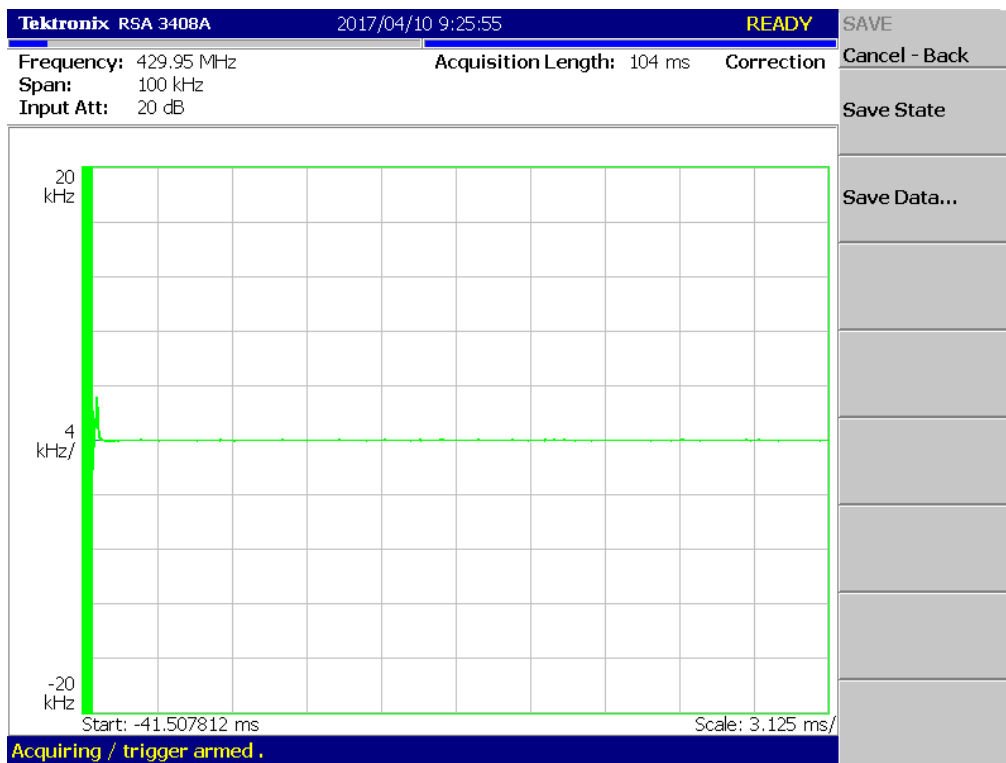
## (7K60FXD, 7K60FXE \_ 511.95 MHz)\_High



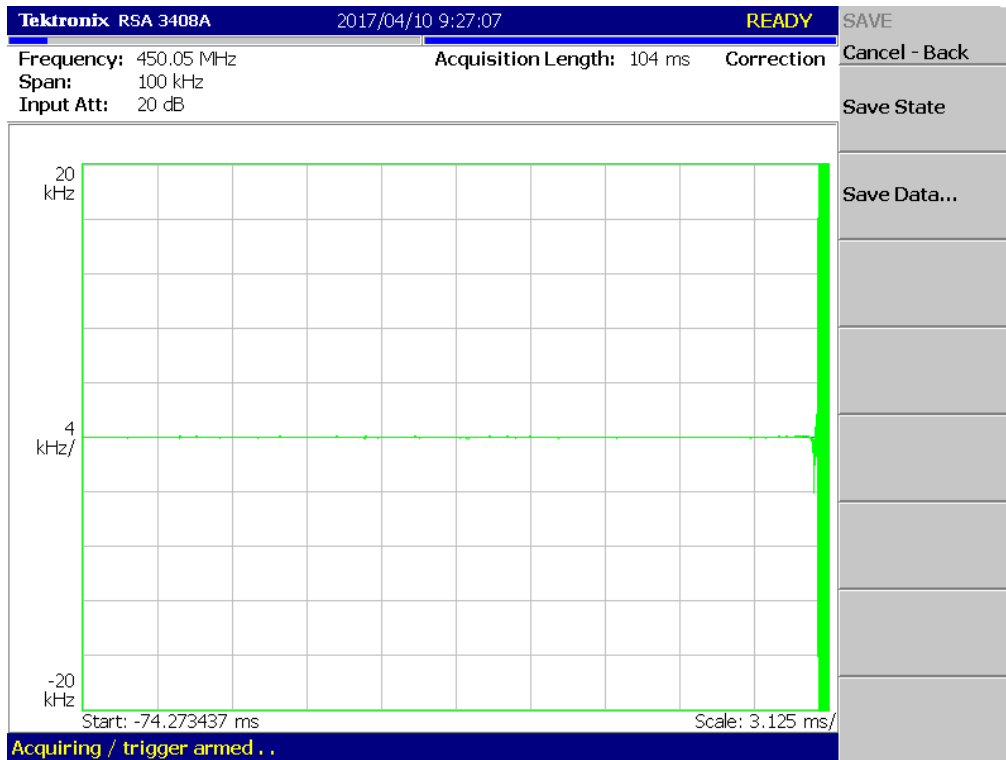
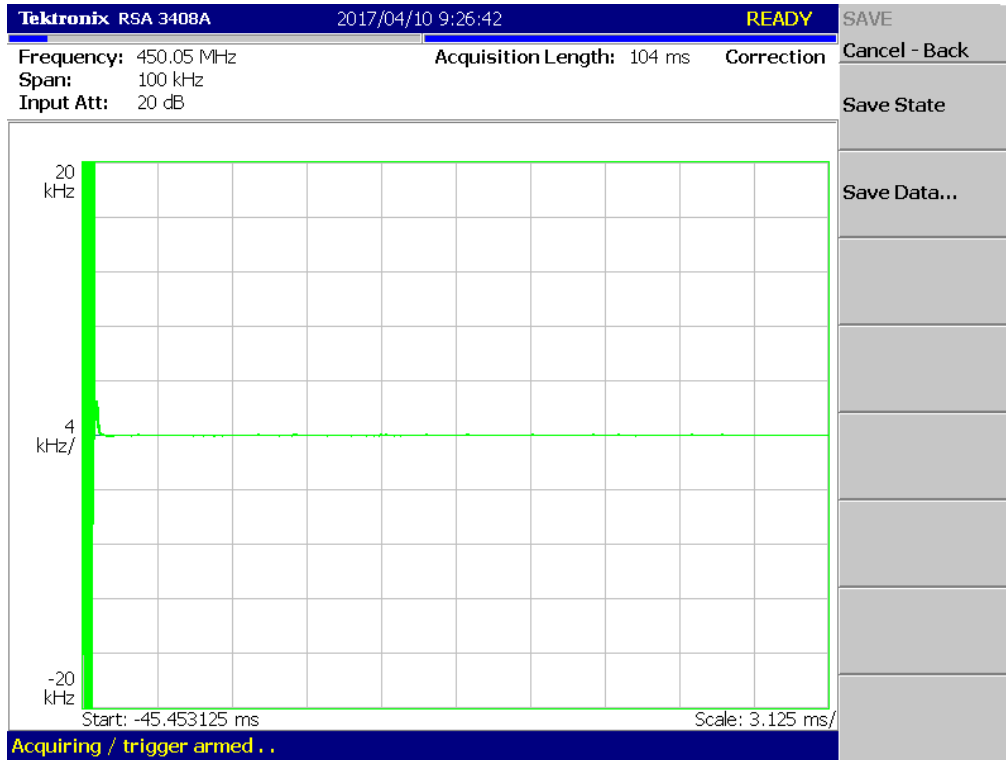
## (7K60FXD, 7K60FXE \_ 406.15 MHz)\_Low



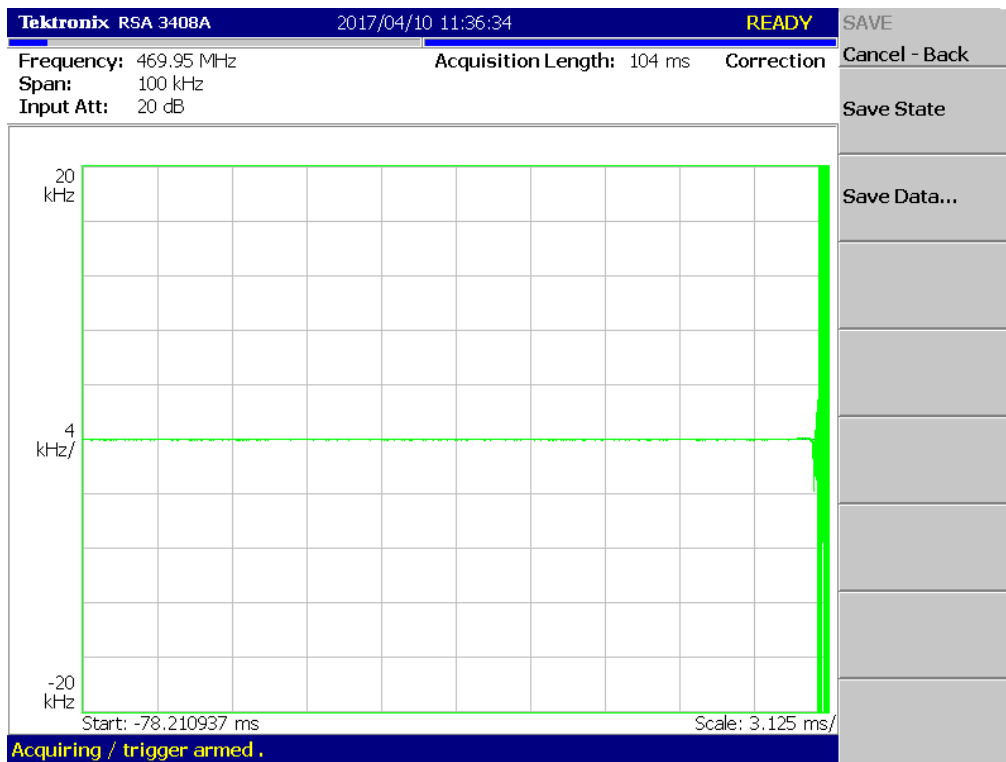
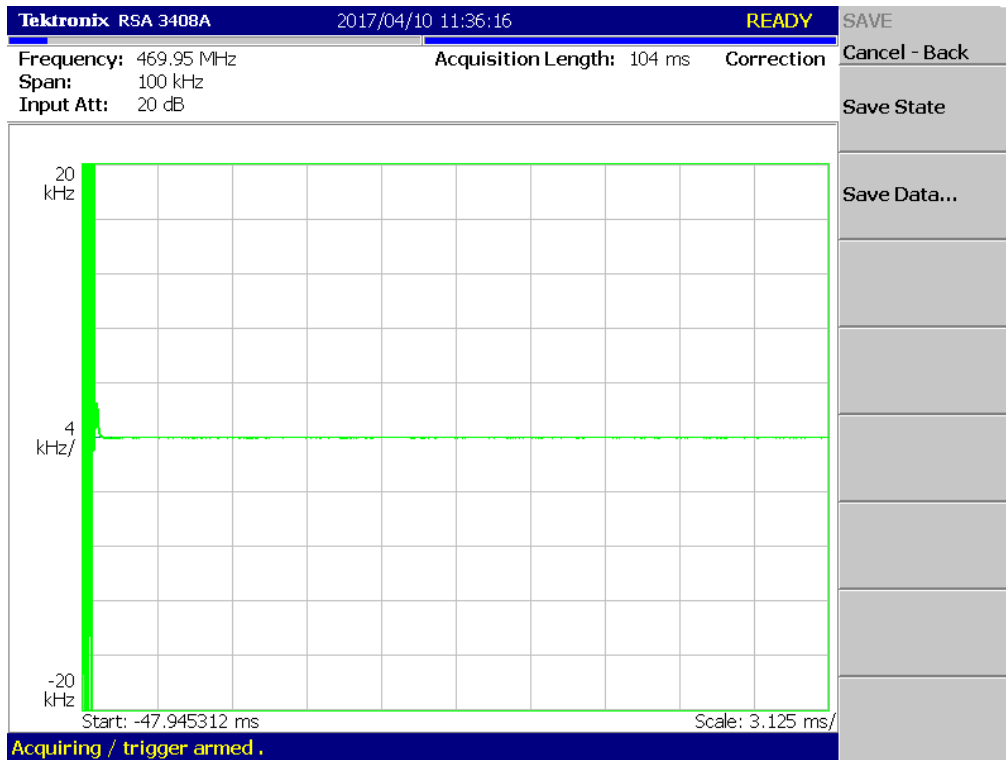
## (7K60FXD, 7K60FXE \_ 429.95 MHz)\_Low



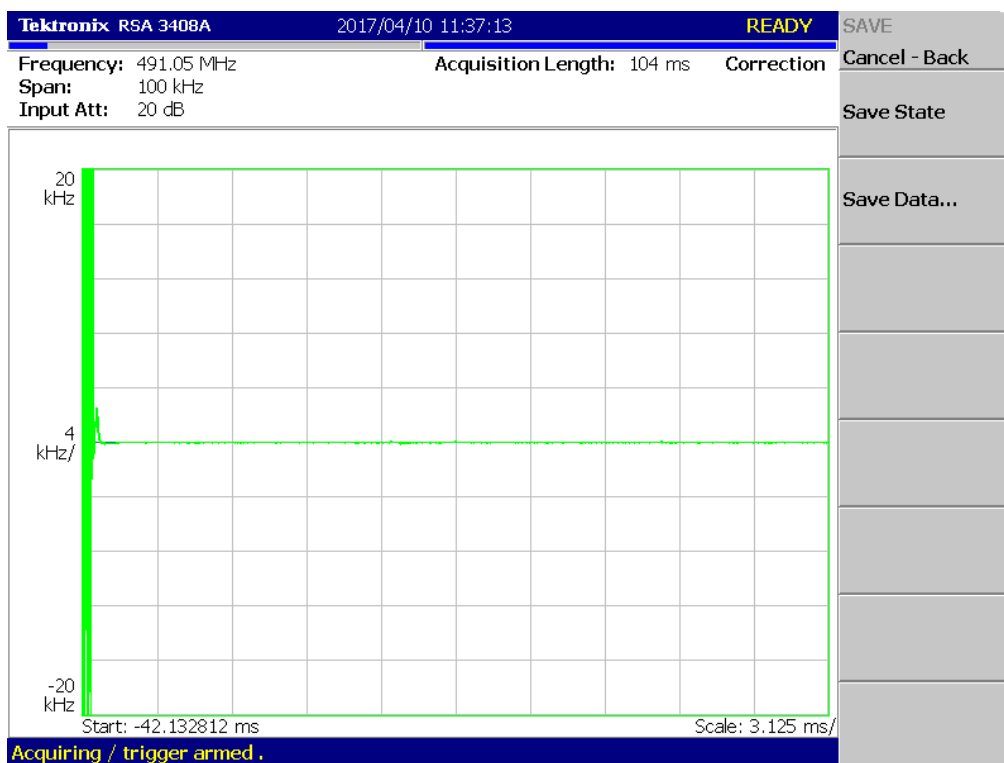
## (7K60FXD, 7K60FXE \_ 450.05 MHz)\_Low



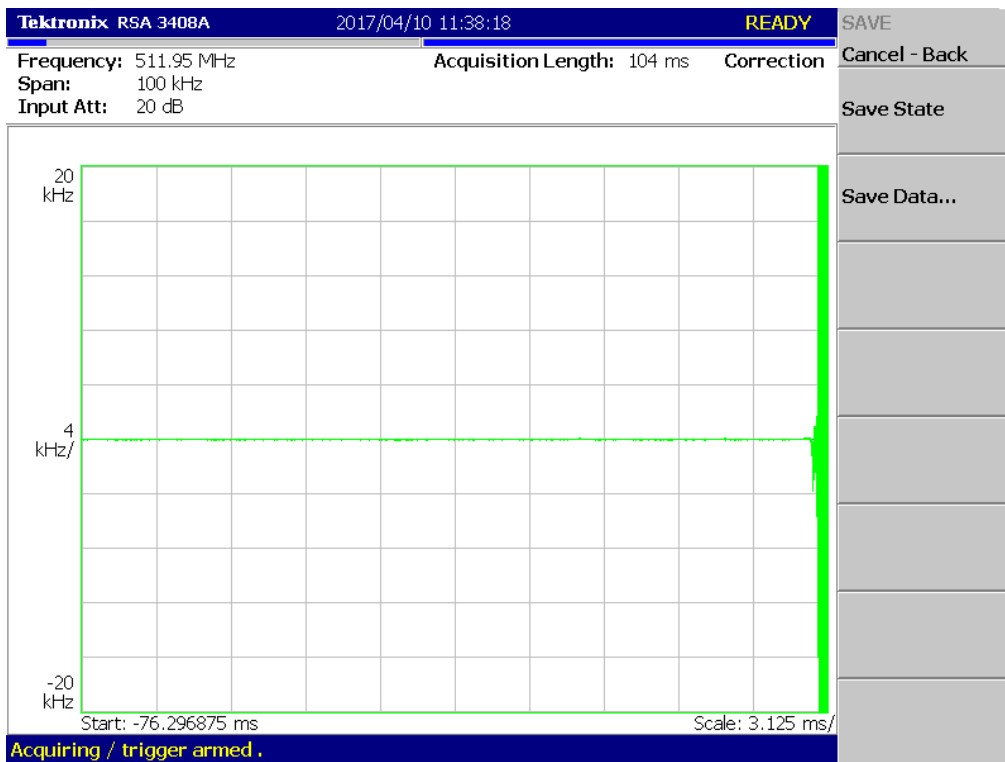
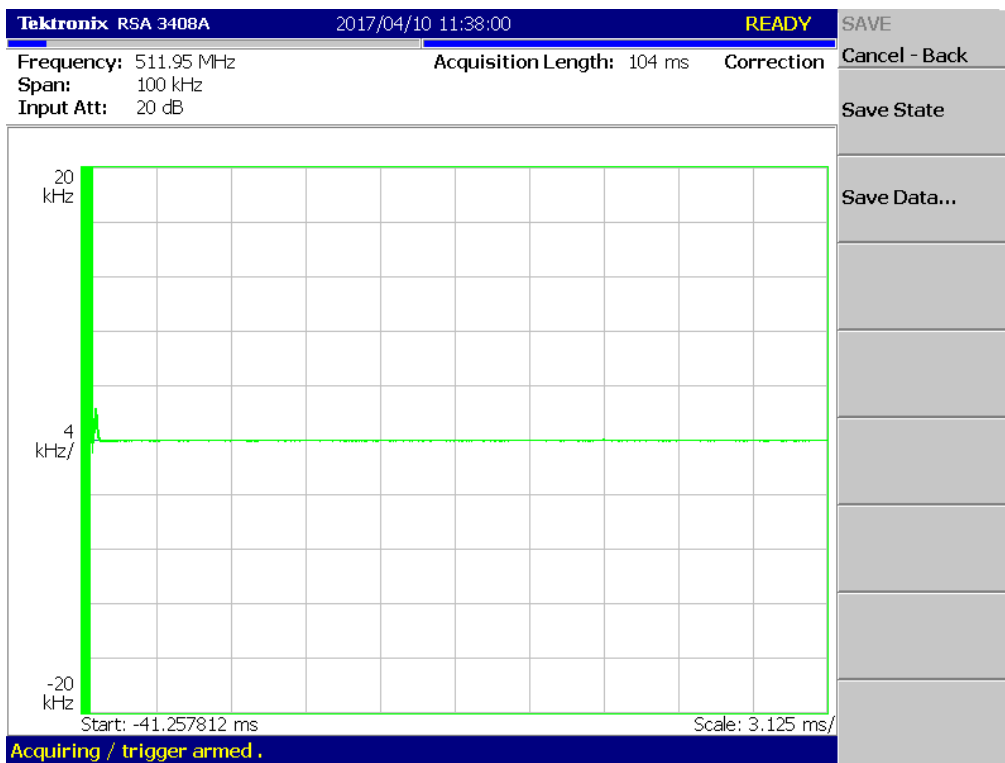
(7K60FXD, 7K60FXE \_ 469.95 MHz)\_Low



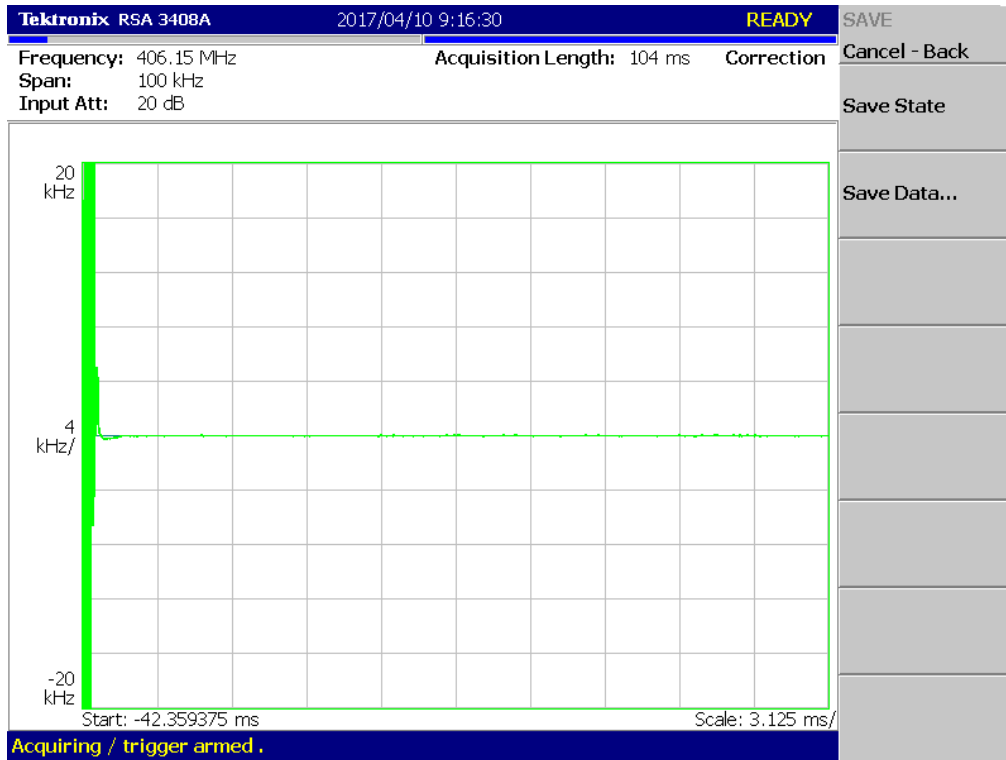
## (7K60FXD, 7K60FXE \_ 491.05 MHz)\_Low



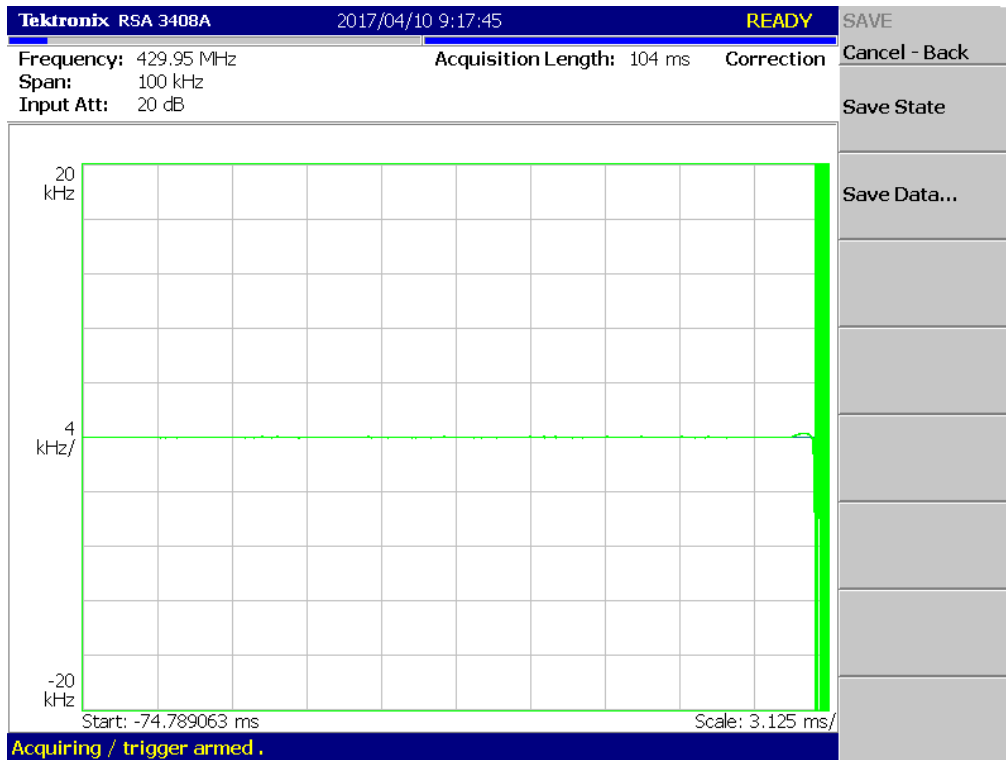
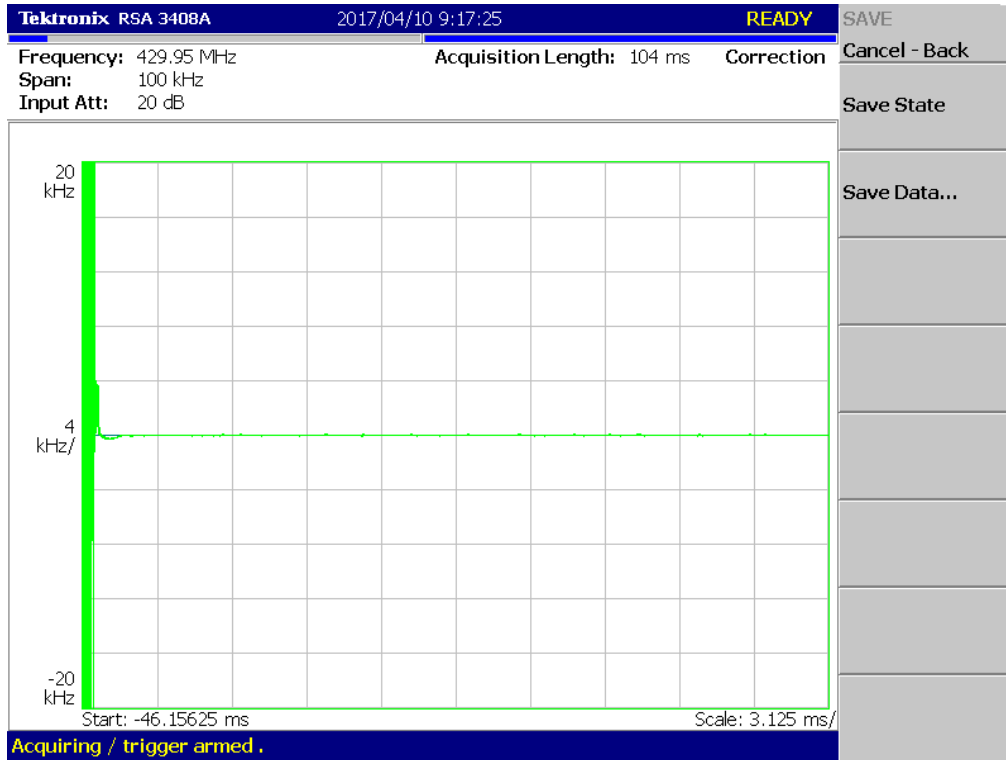
## (7K60FXD, 7K60FXE \_ 511.95 MHz)\_Low



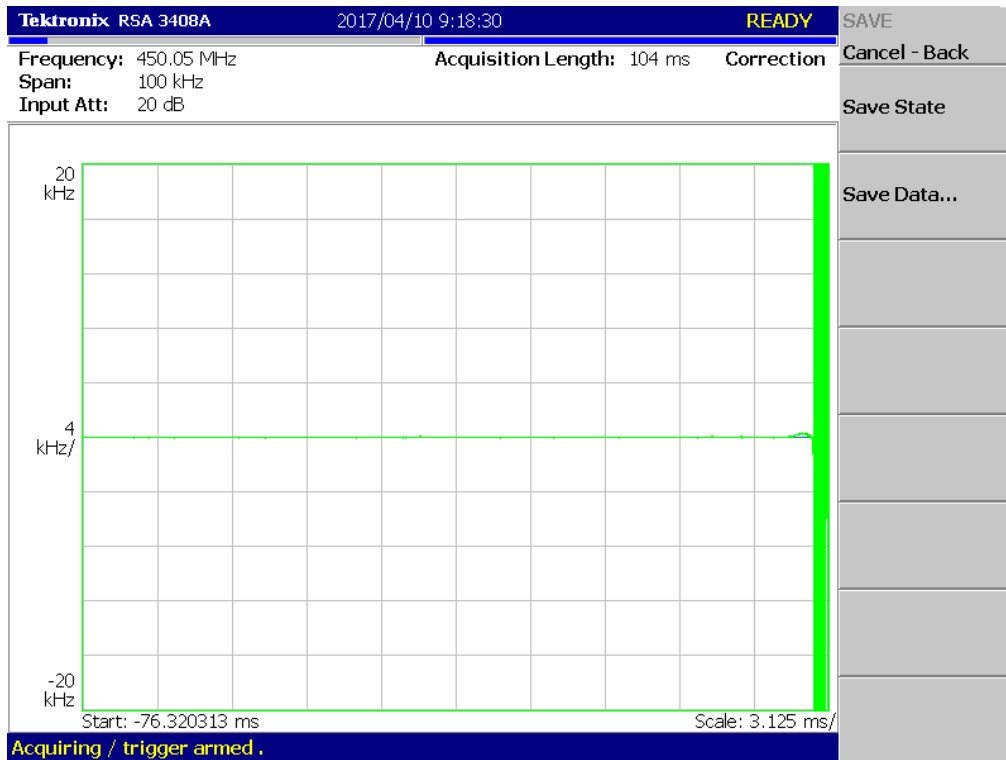
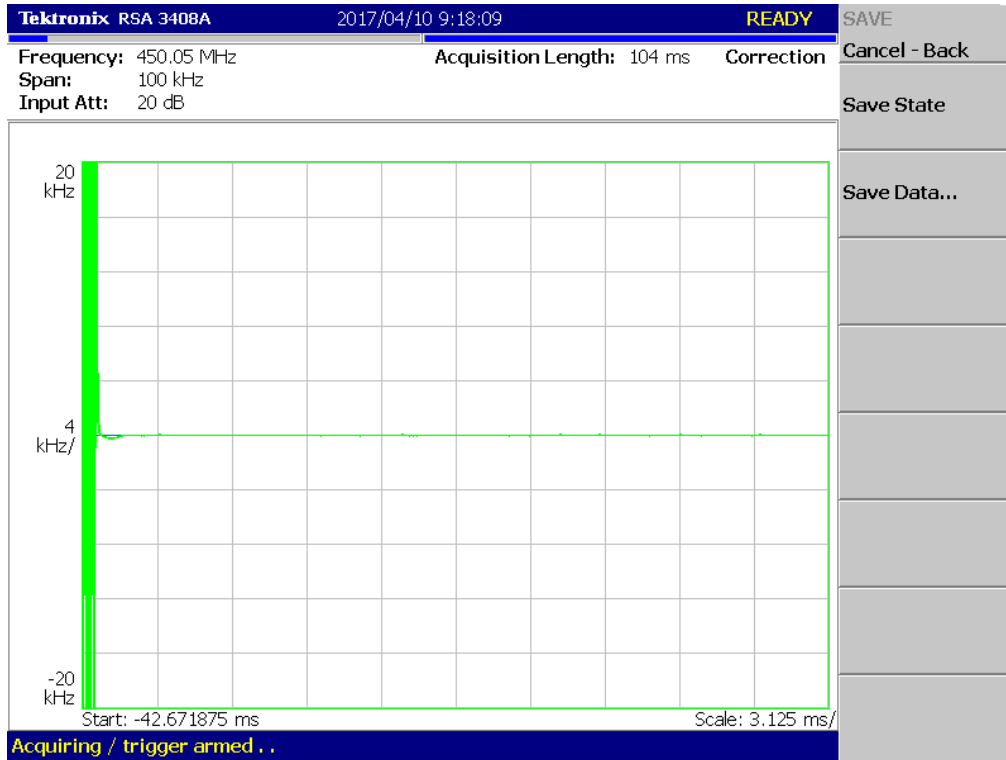
## (8K30F1E, 8K30F1D, 8K30F7W \_ 406.15 MHz)\_High



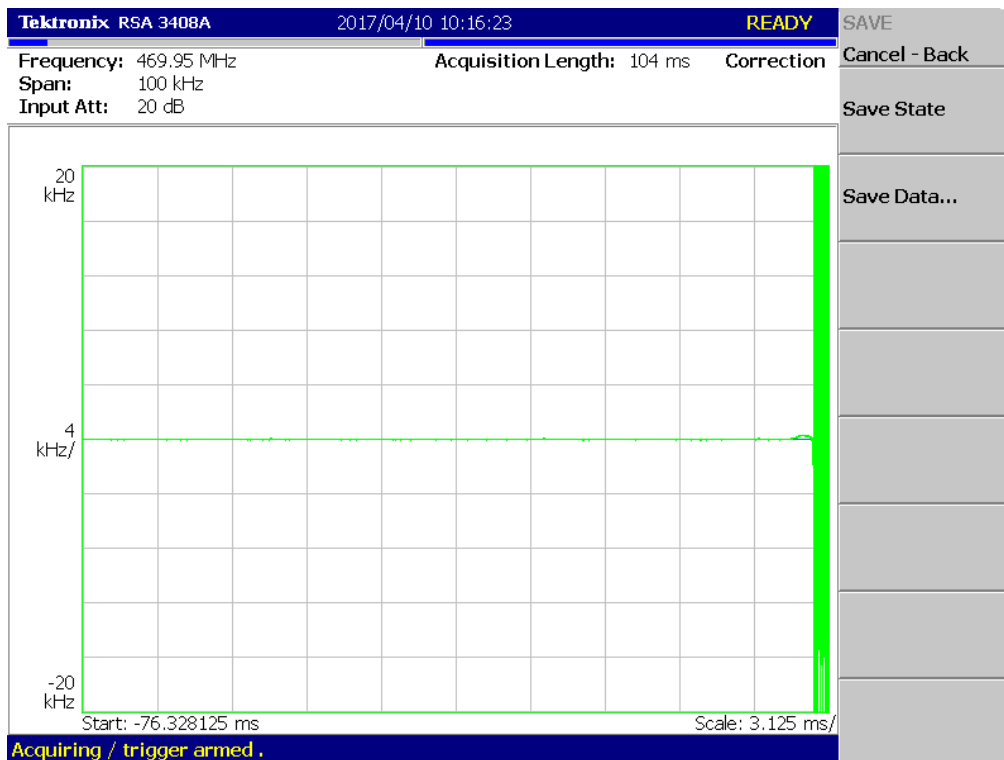
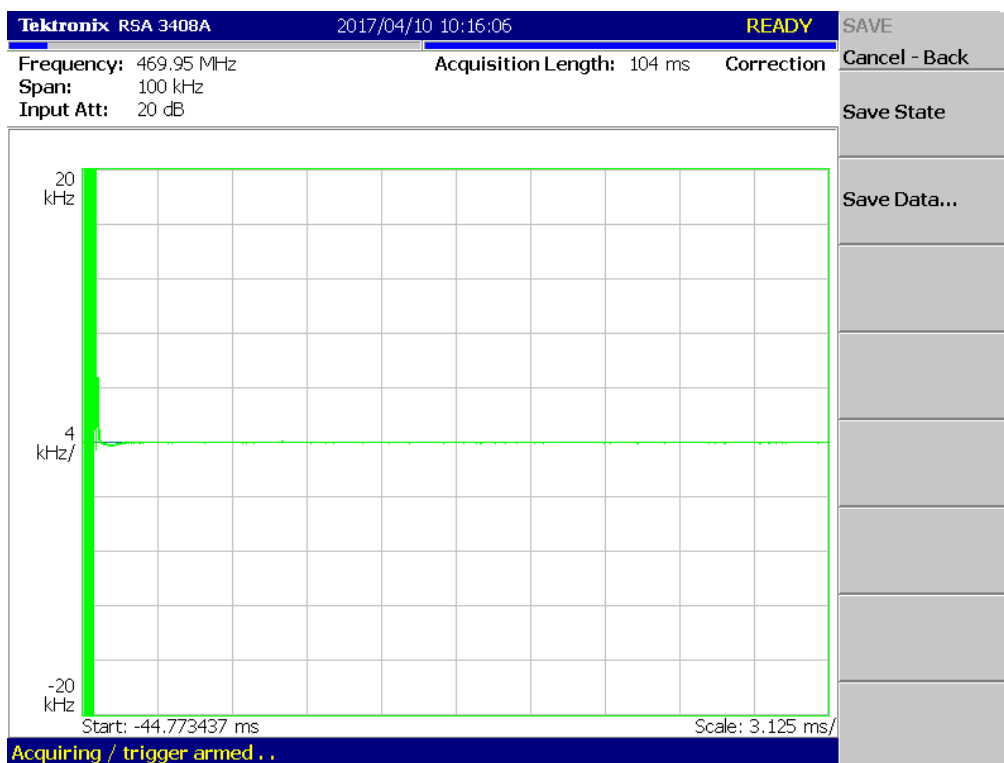
## (8K30F1E, 8K30F1D, 8K30F7W \_ 429.95 MHz)\_High



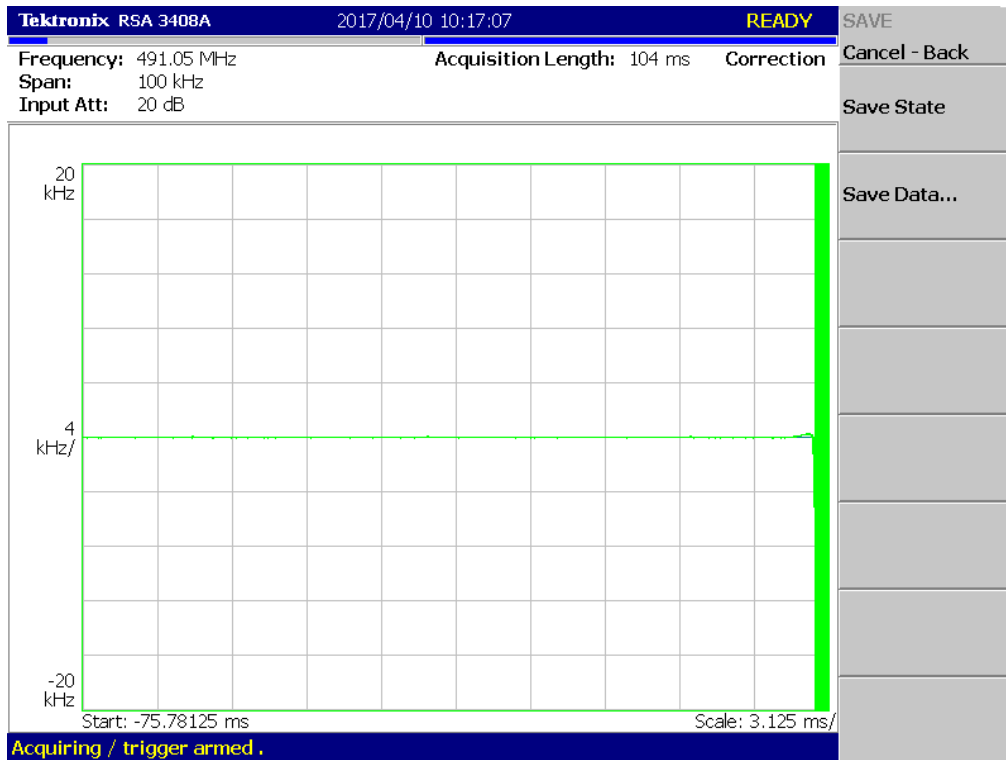
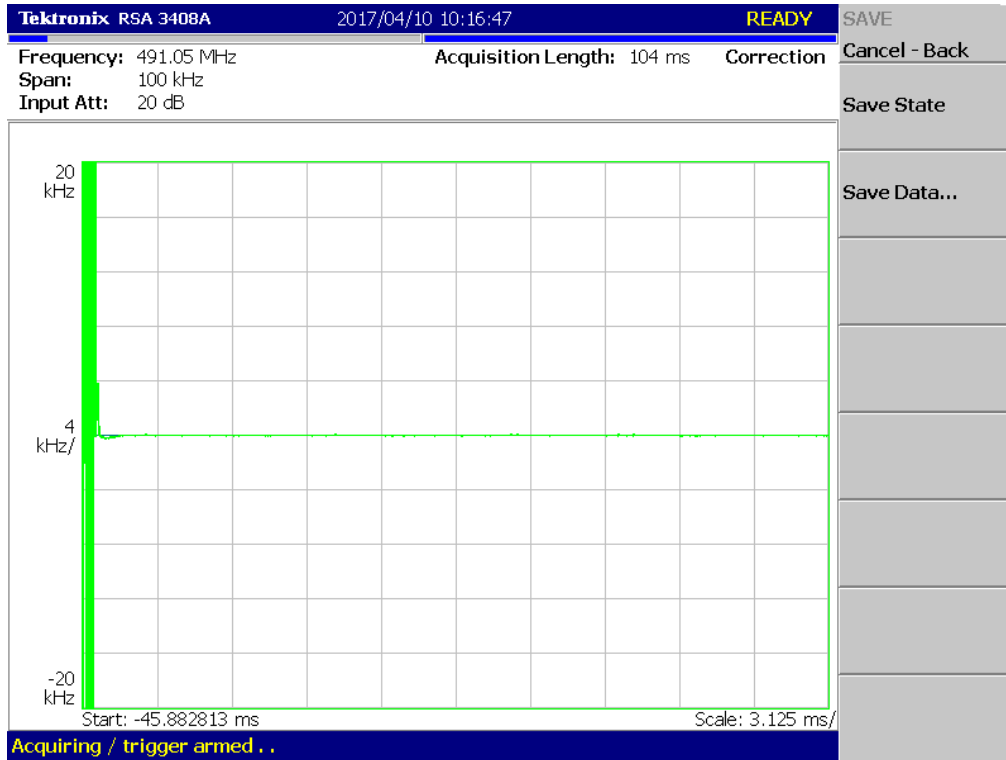
(8K30F1E, 8K30F1D, 8K30F7W \_ 450.05 MHz)\_High



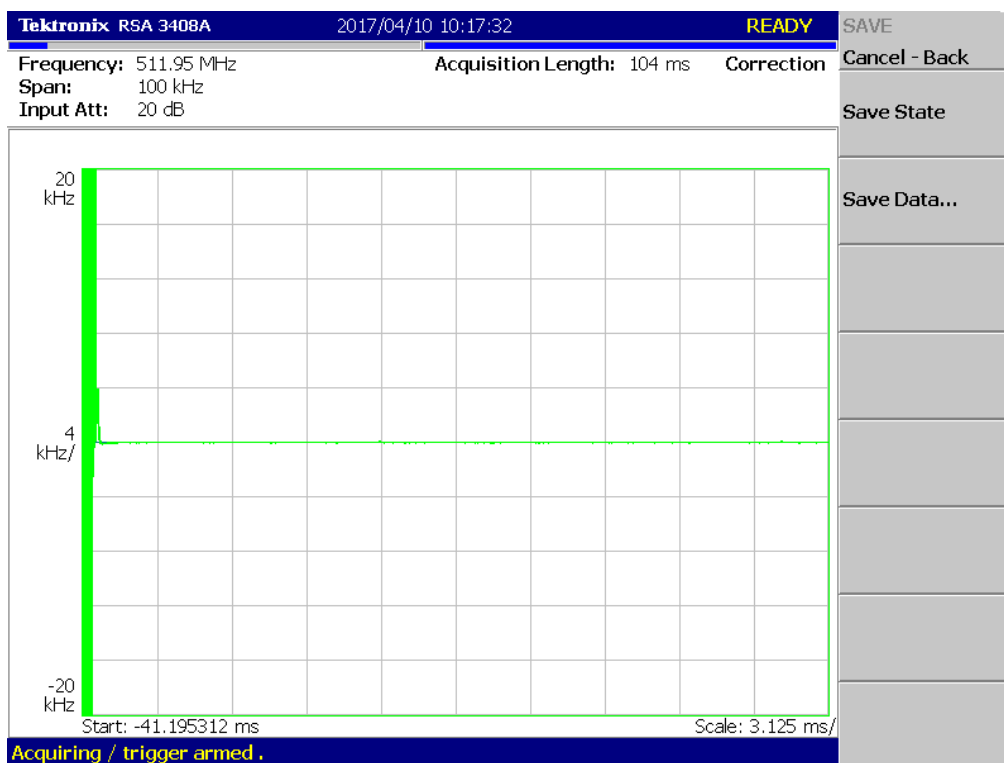
(8K30F1E, 8K30F1D, 8K30F7W \_ 469.95 MHz)\_High



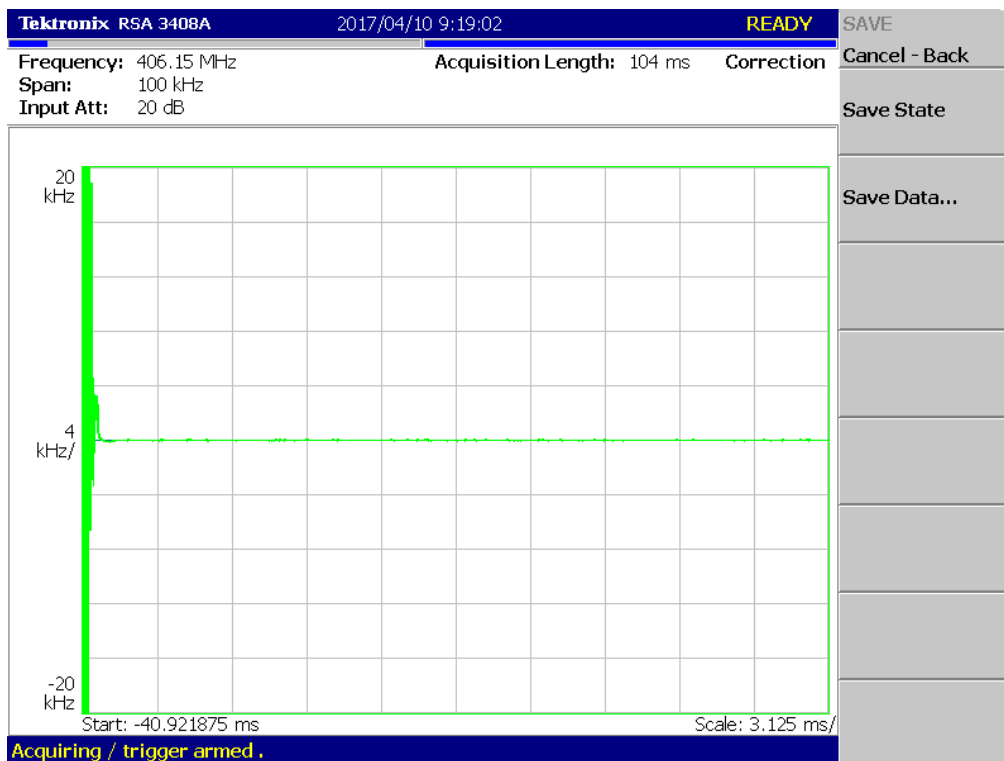
(8K30F1E, 8K30F1D, 8K30F7W \_ 491.05 MHz)\_High



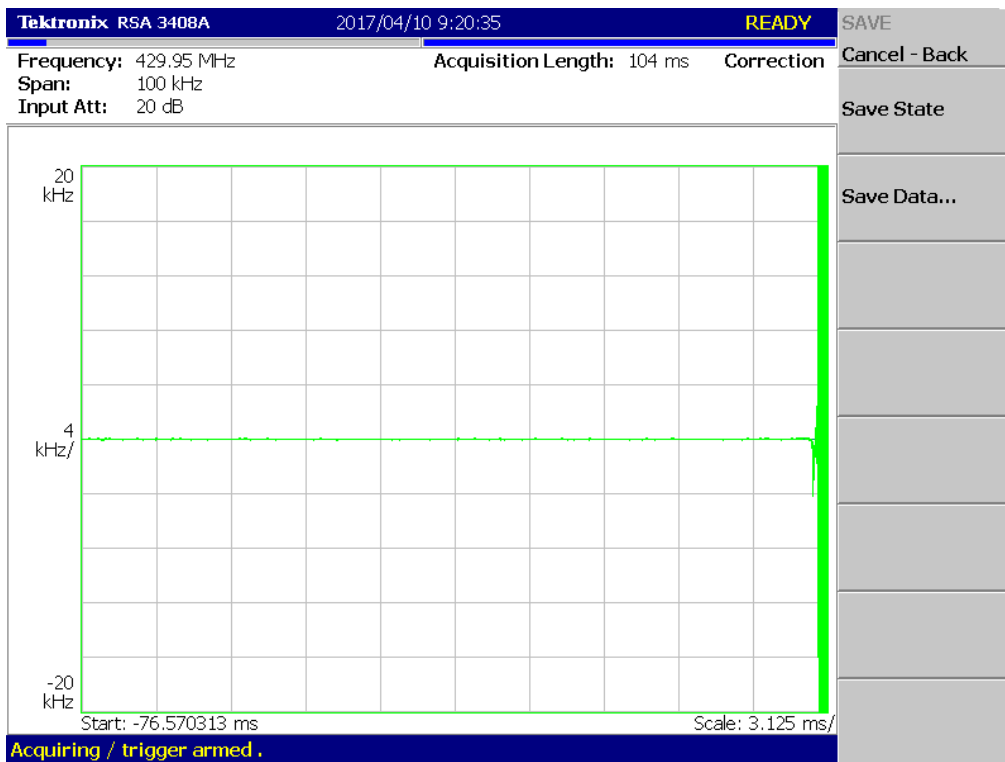
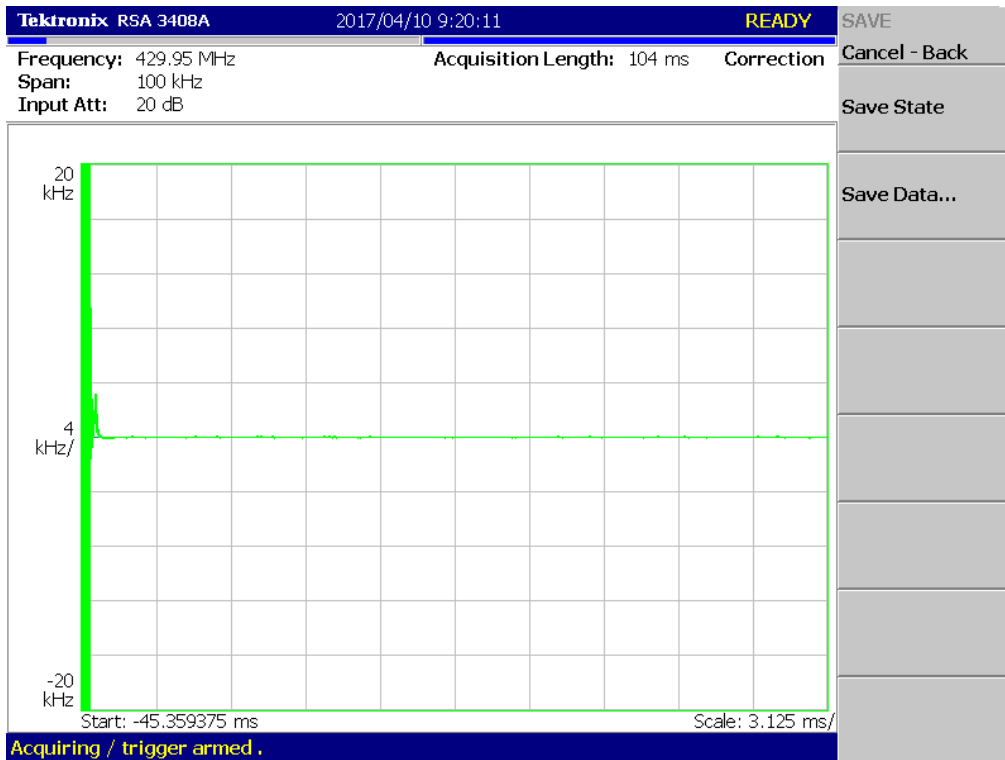
(8K30F1E, 8K30F1D, 8K30F7W \_ 511.95 MHz)\_High



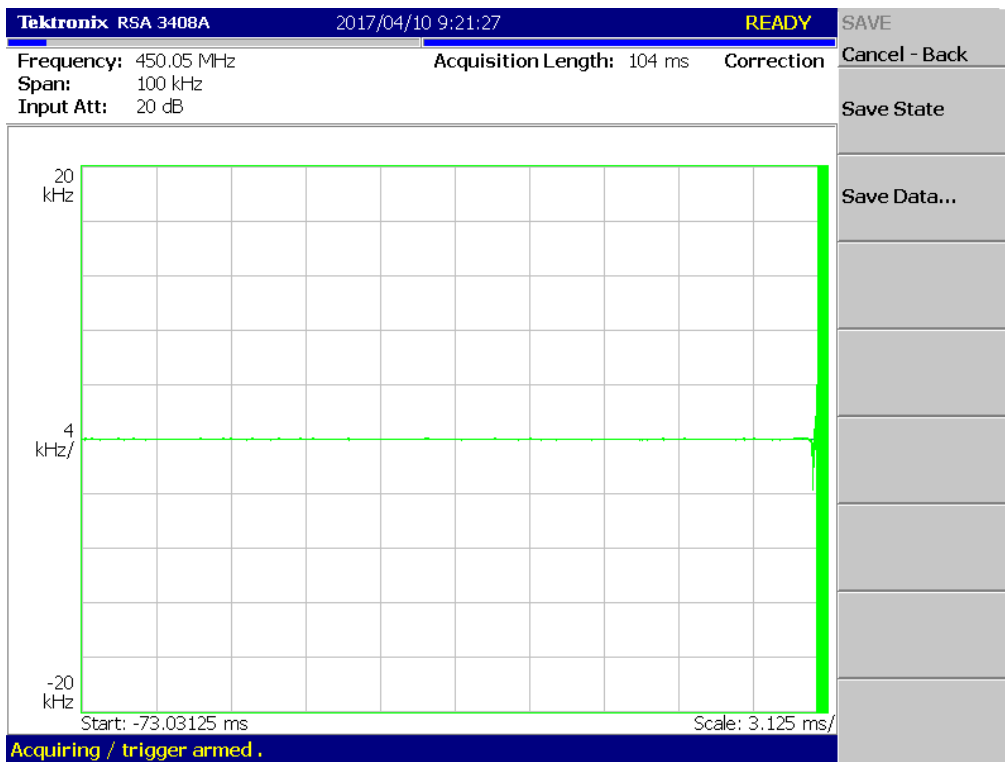
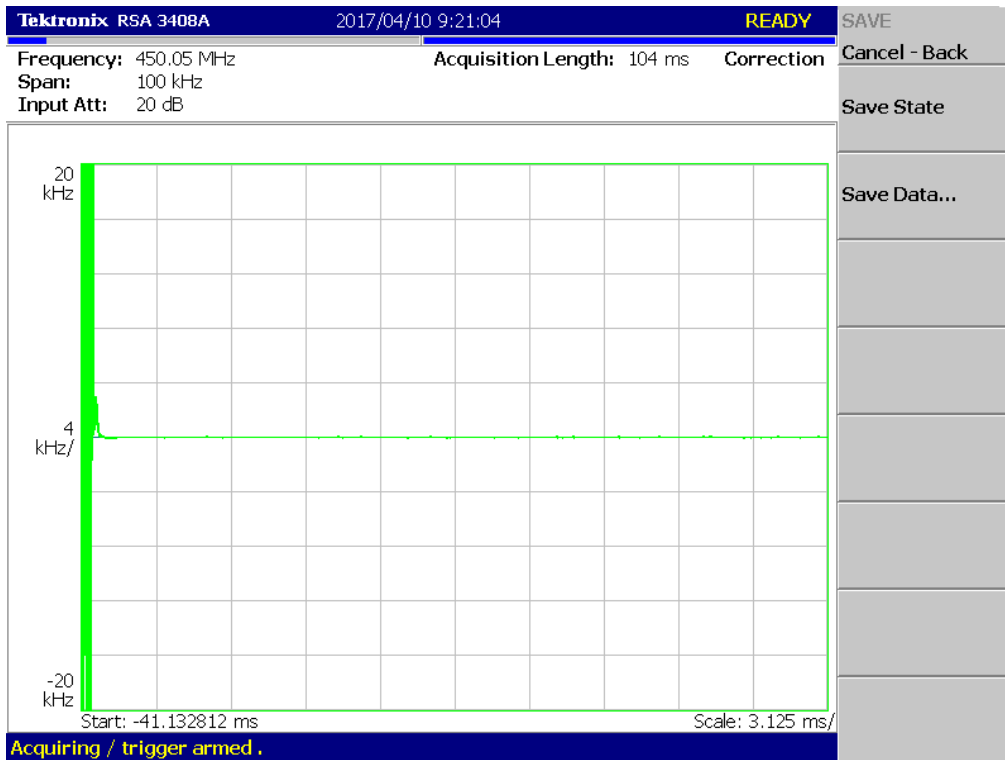
(8K30F1E, 8K30F1D, 8K30F7W \_ 406.15 MHz)\_Low



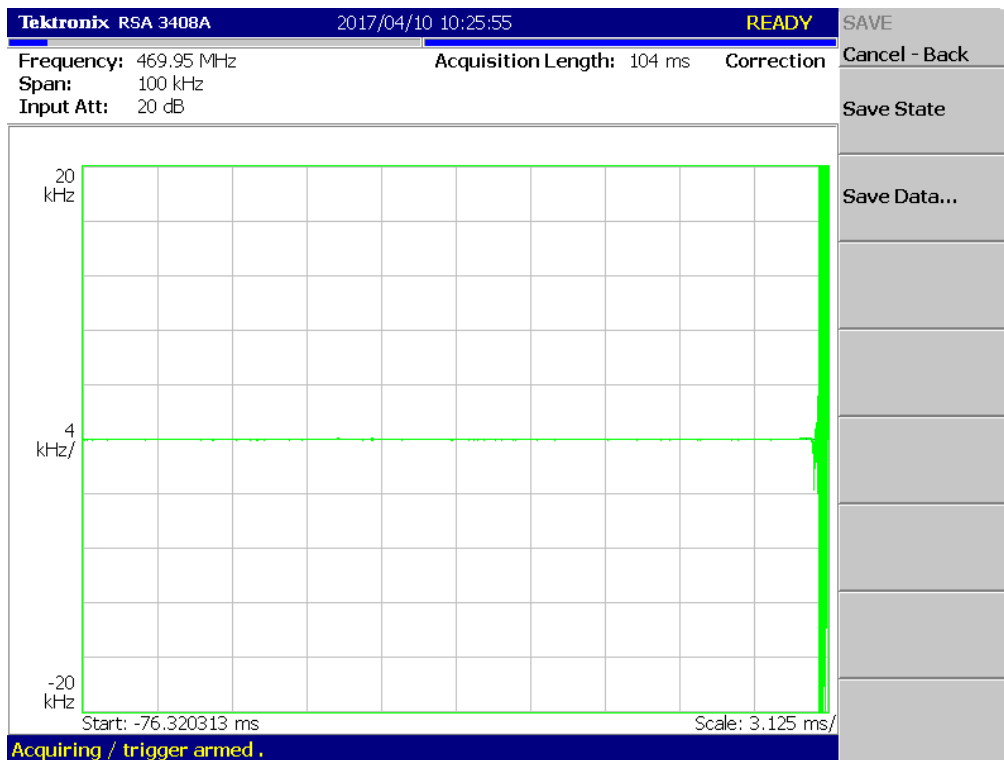
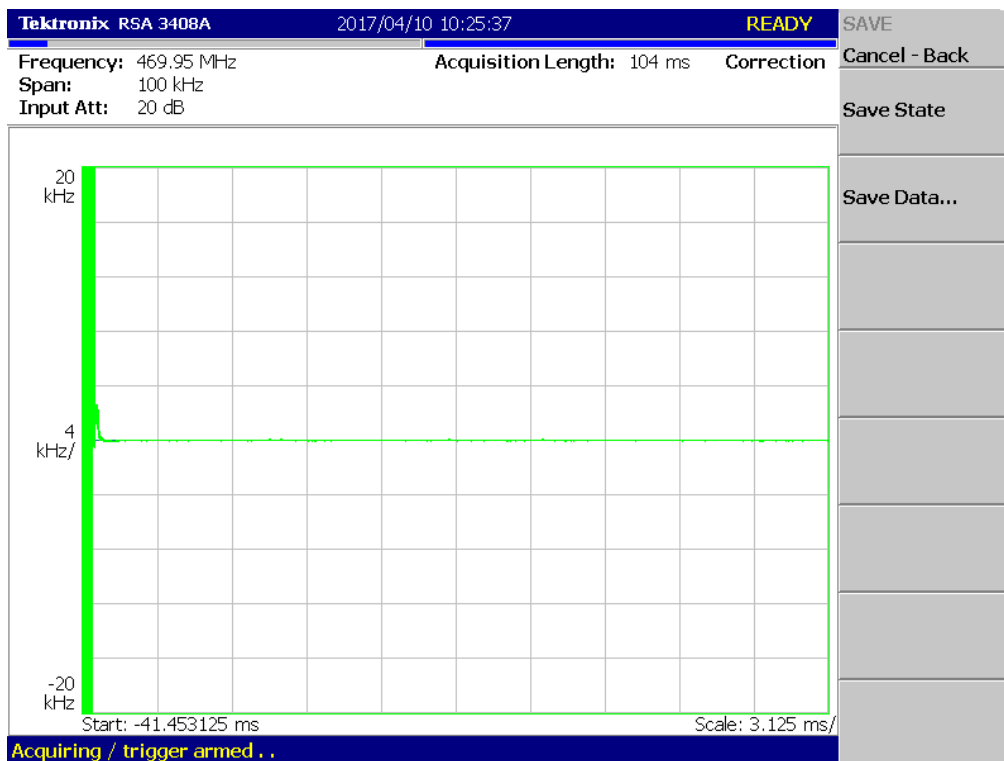
(8K30F1E, 8K30F1D, 8K30F7W \_ 429.95 MHz)\_Low



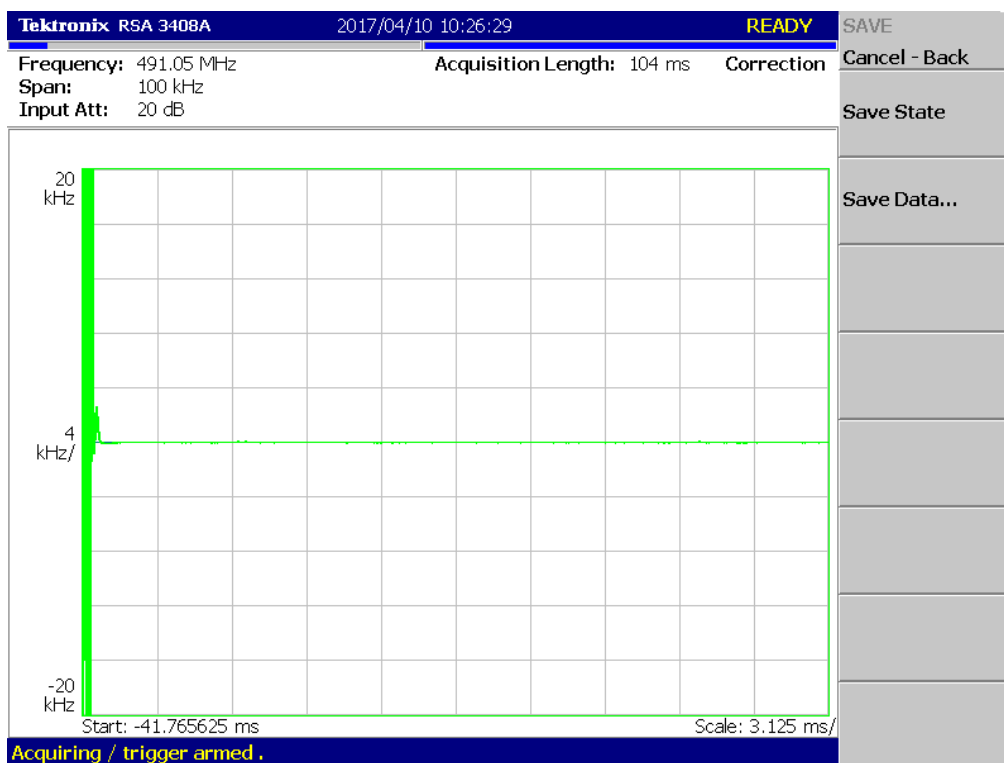
(8K30F1E, 8K30F1D, 8K30F7W \_ 450.05 MHz)\_Low



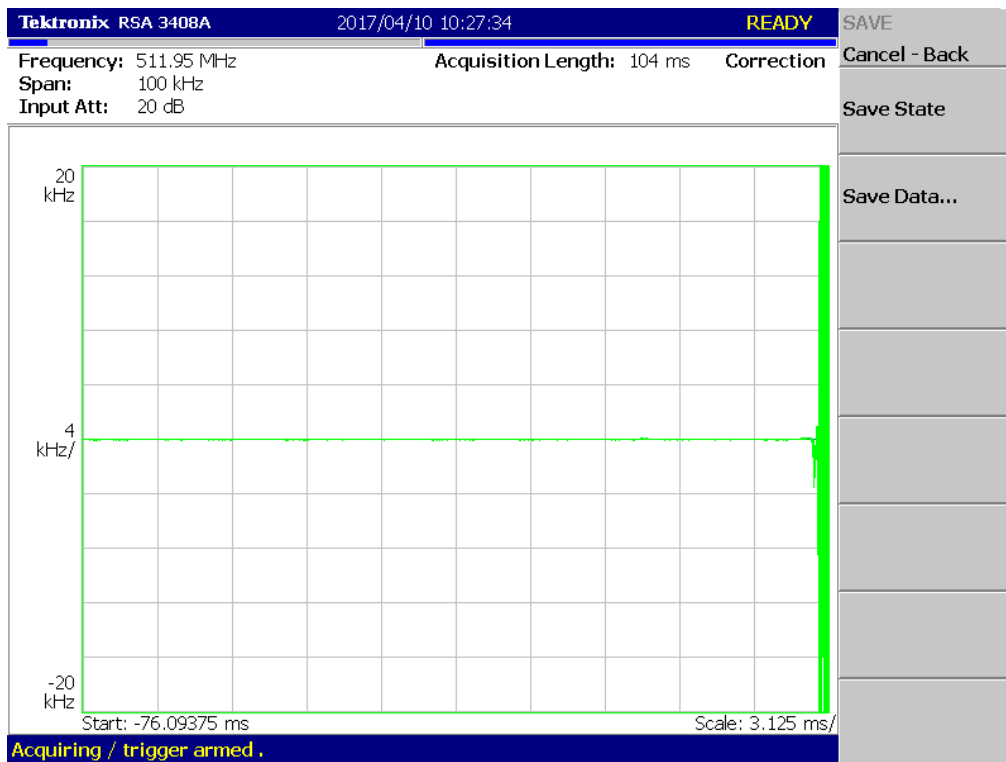
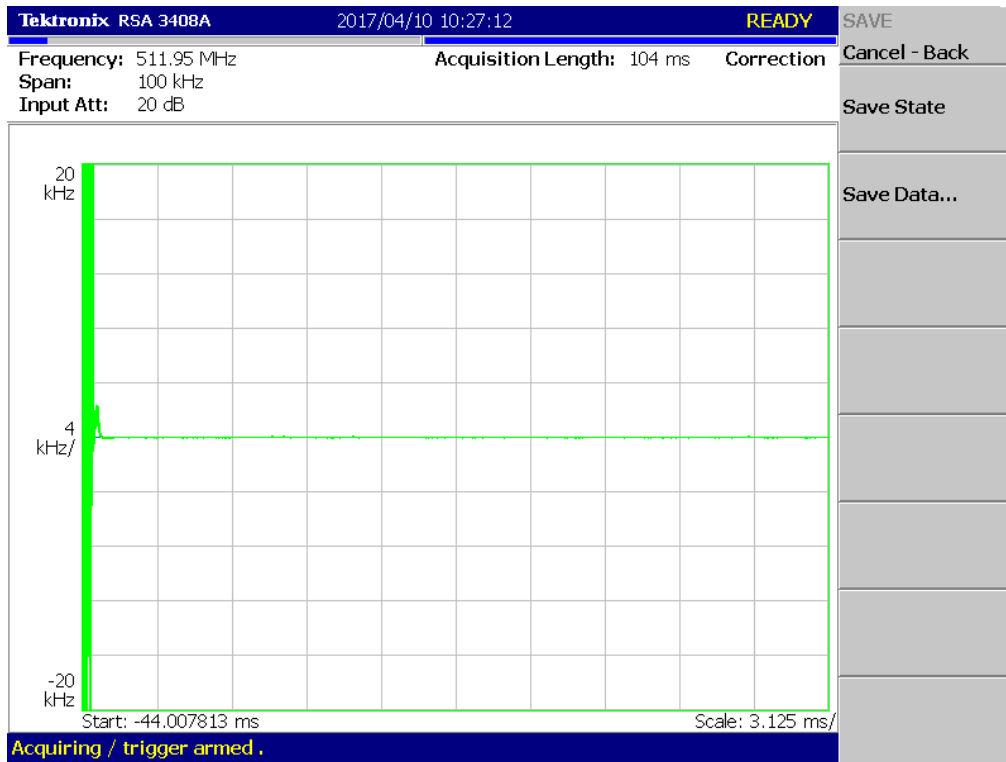
(8K30F1E, 8K30F1D, 8K30F7W \_ 469.95 MHz)\_Low



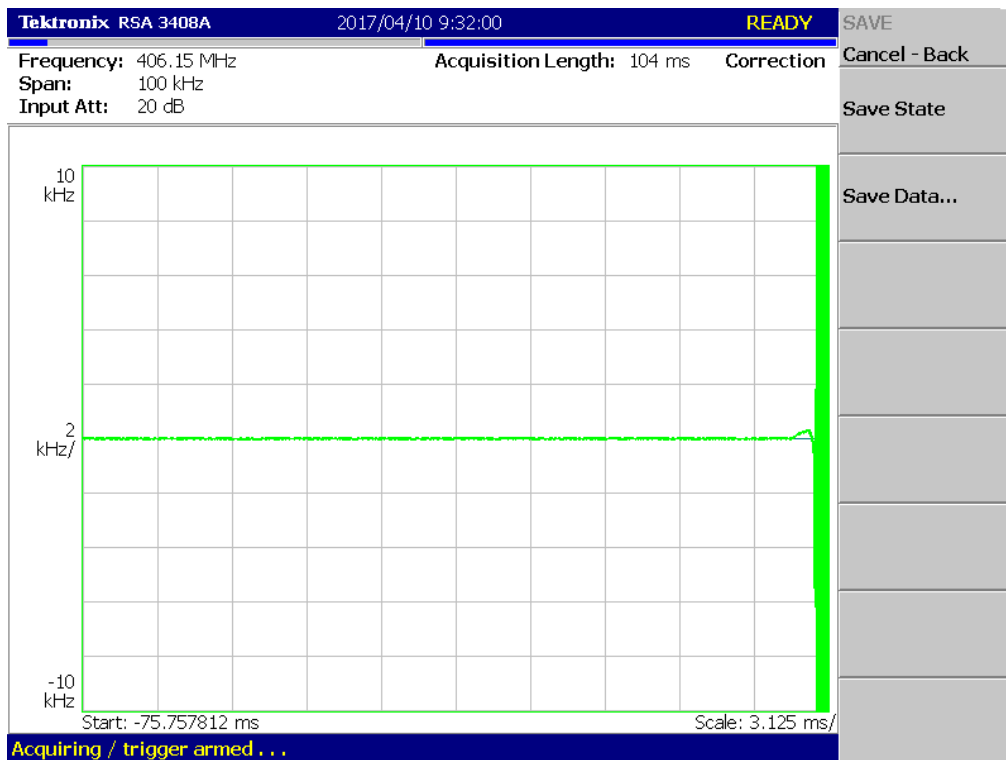
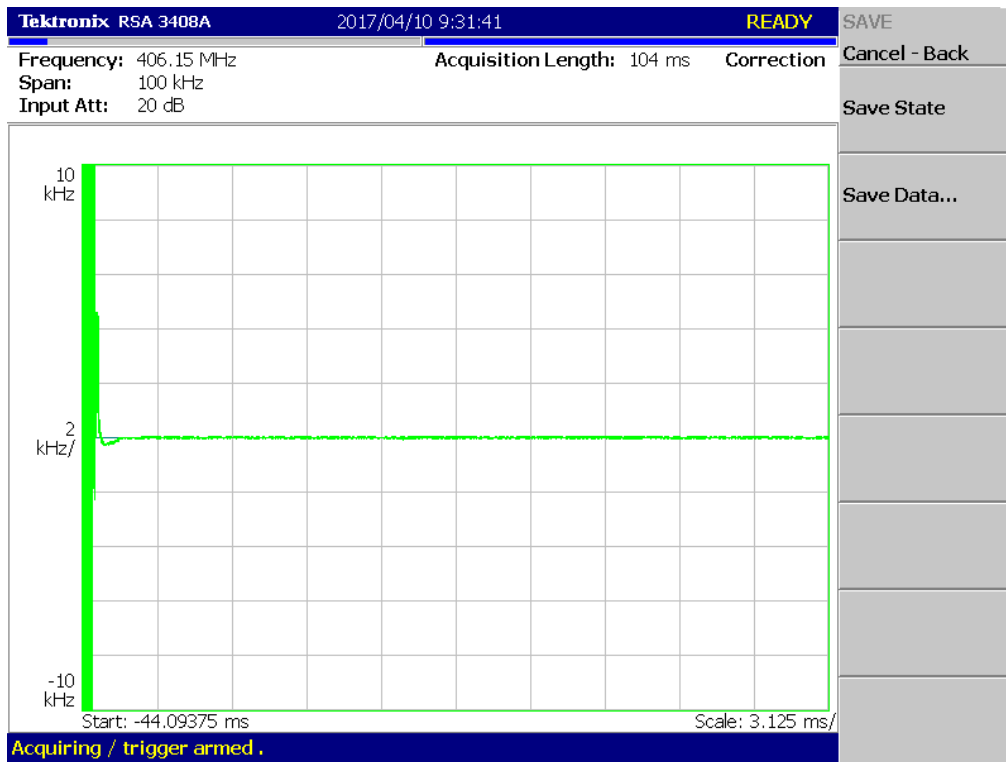
(8K30F1E, 8K30F1D, 8K30F7W \_ 491.05 MHz)\_Low



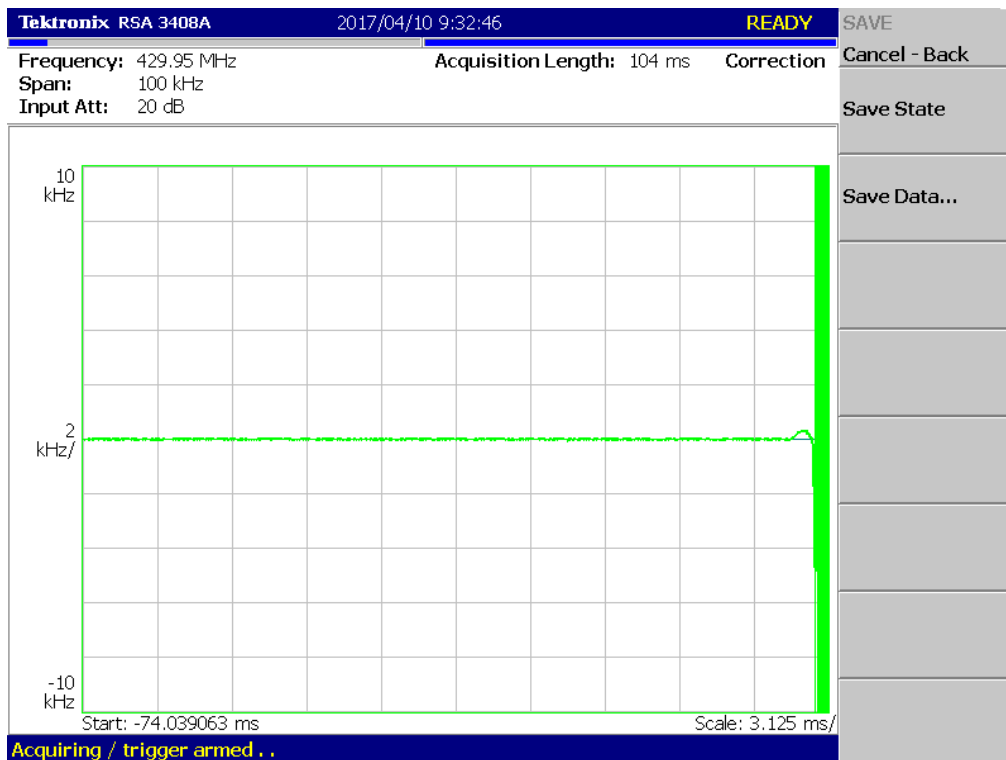
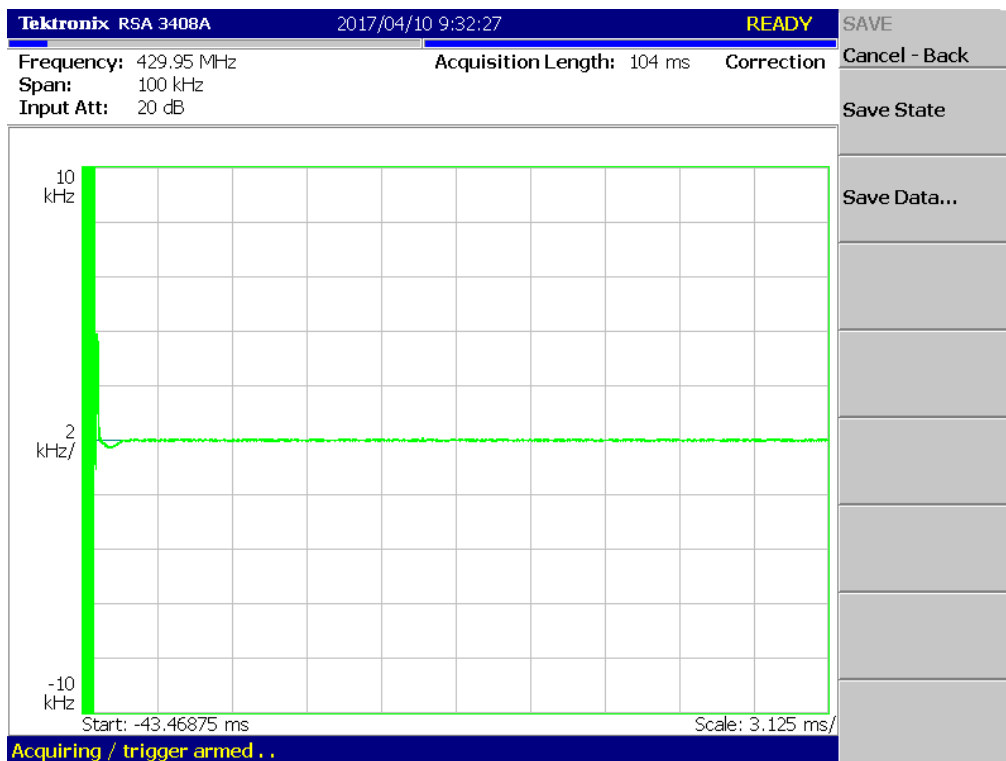
(8K30F1E, 8K30F1D, 8K30F7W \_ 511.95 MHz)\_Low



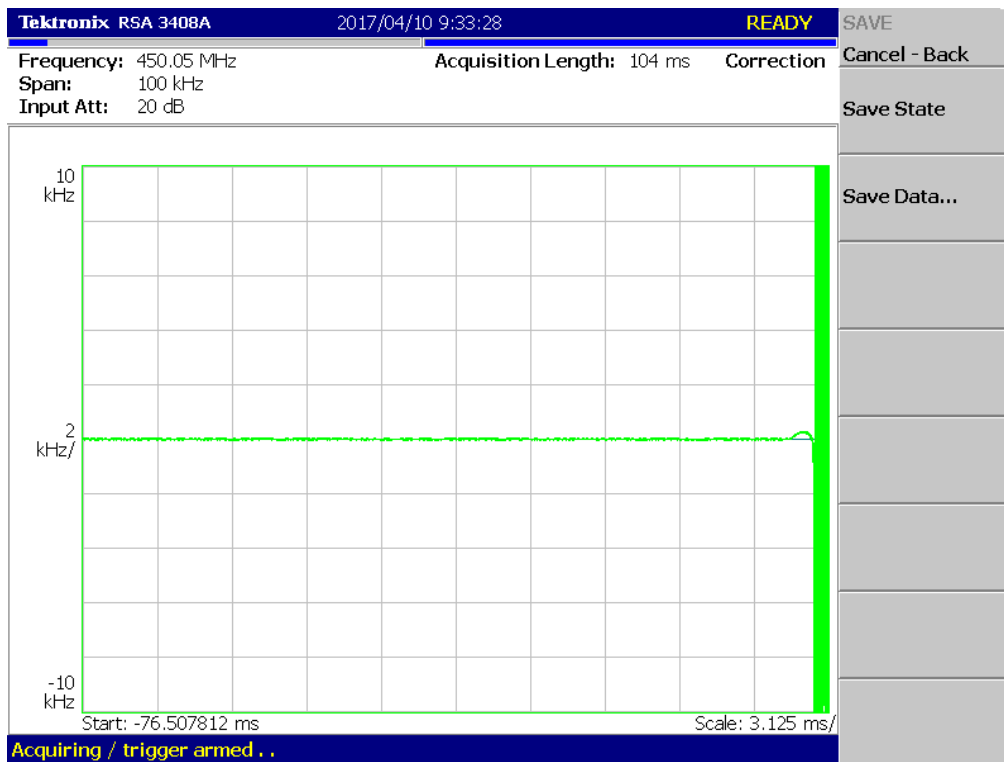
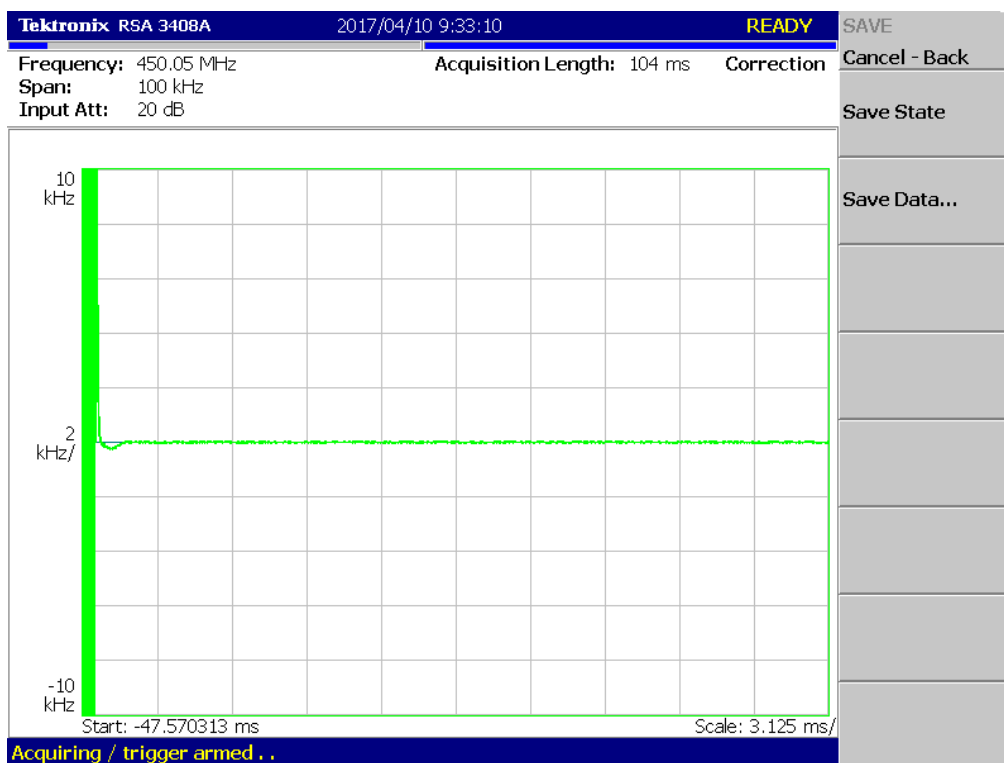
## (4K00F1E, 4K00F1D, 4K00F7W \_ 406.15 MHz)\_High



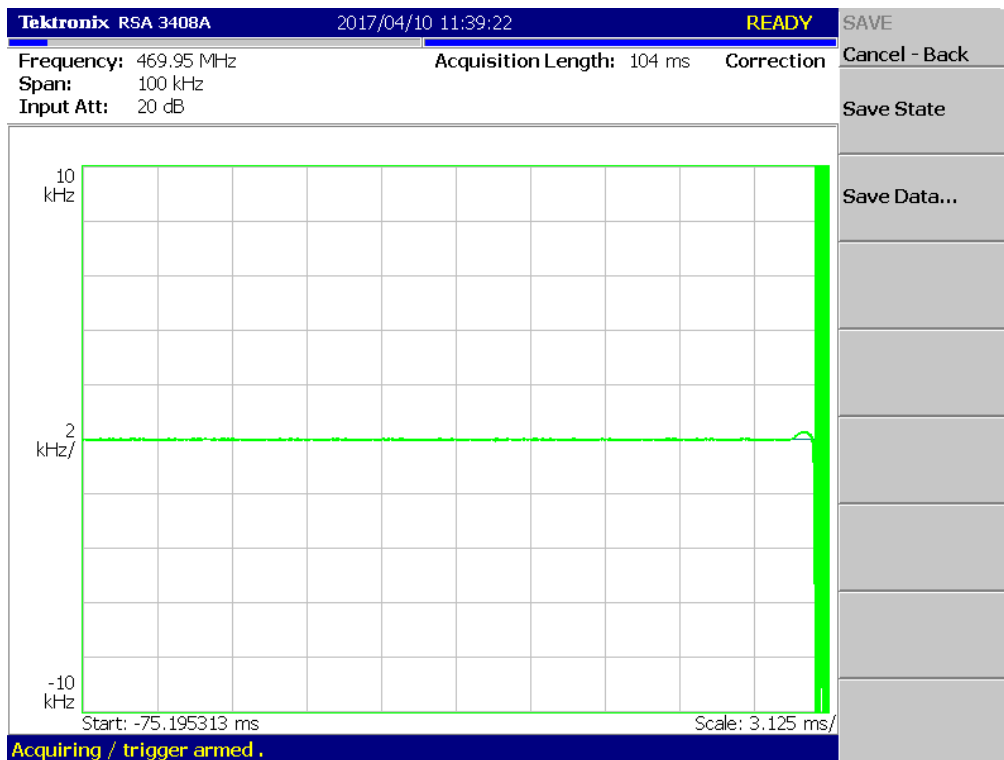
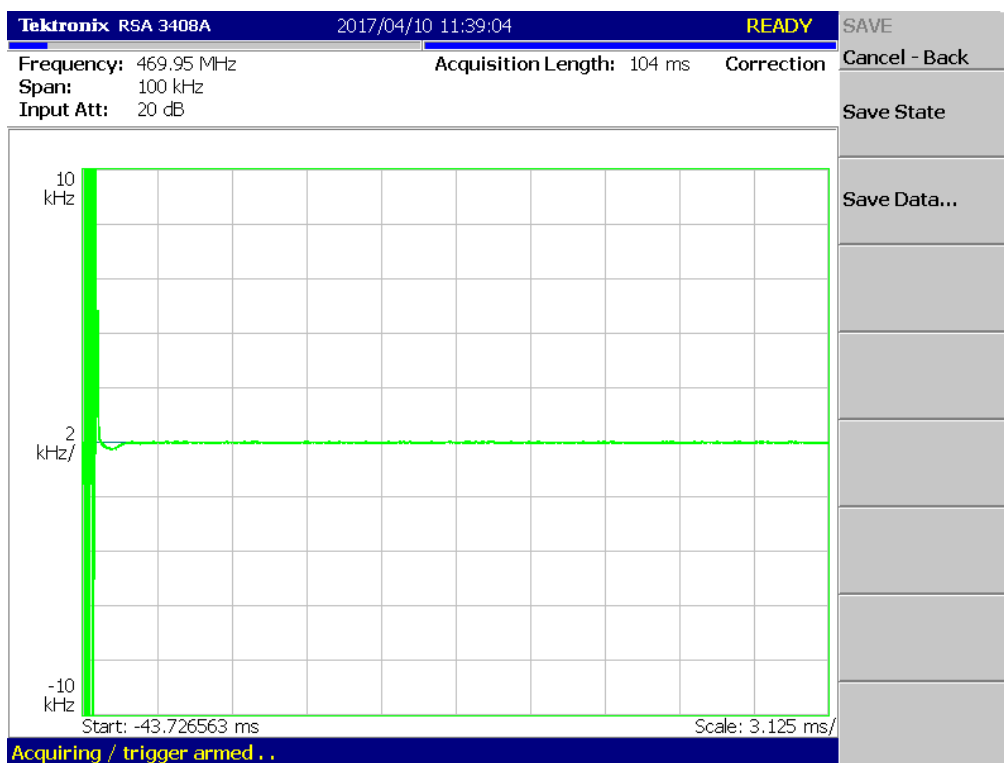
(4K00F1E, 4K00F1D, 4K00F7W \_ 429.95 MHz)\_High



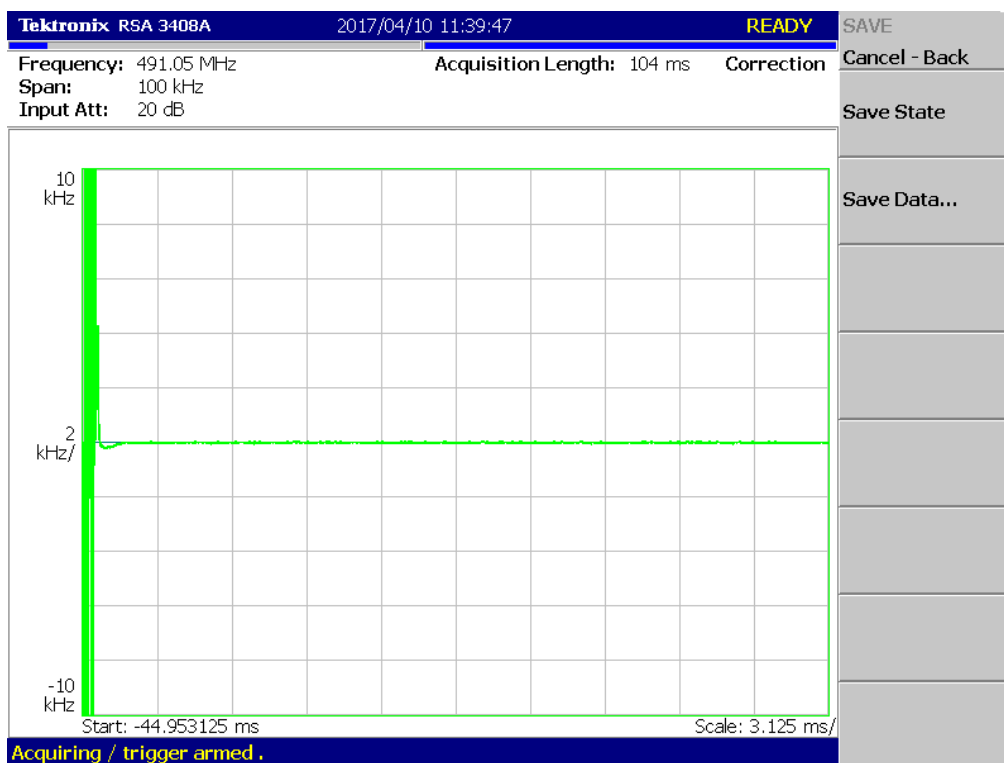
(4K00F1E, 4K00F1D, 4K00F7W \_ 450.05 MHz)\_High



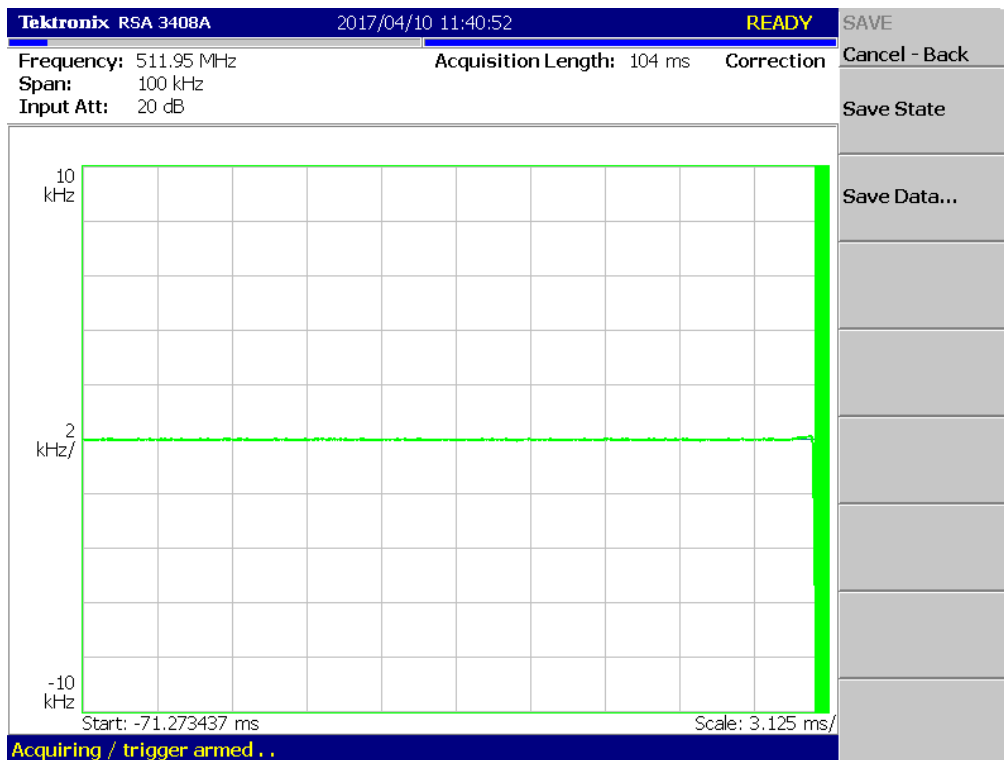
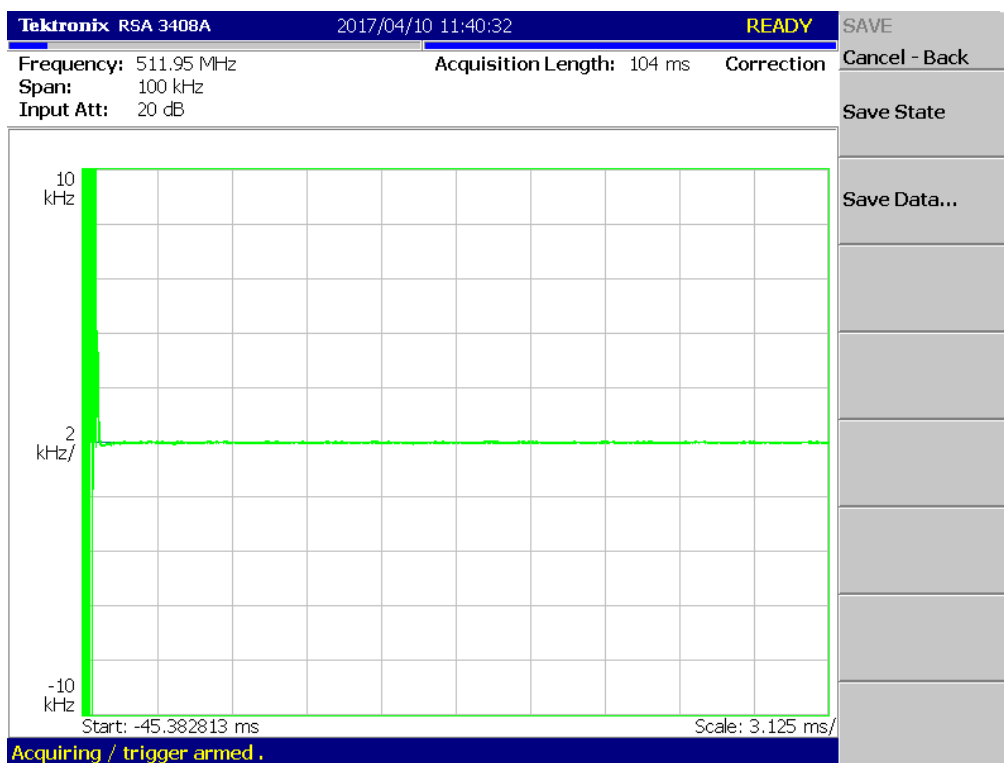
(4K00F1E, 4K00F1D, 4K00F7W \_ 469.95 MHz)\_High



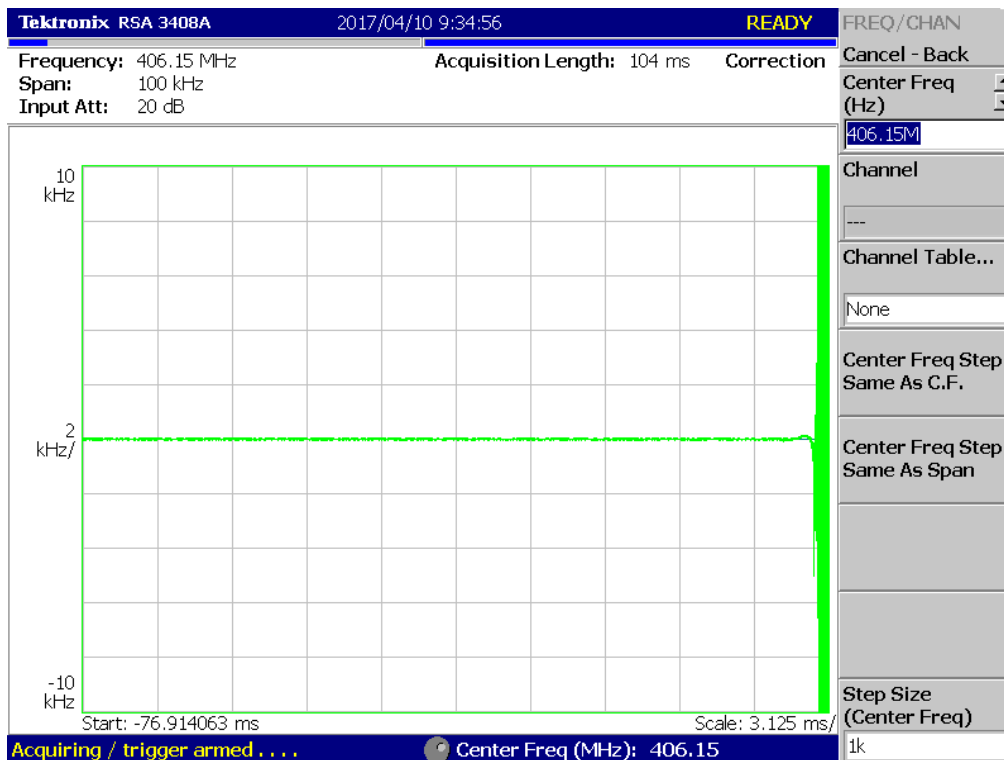
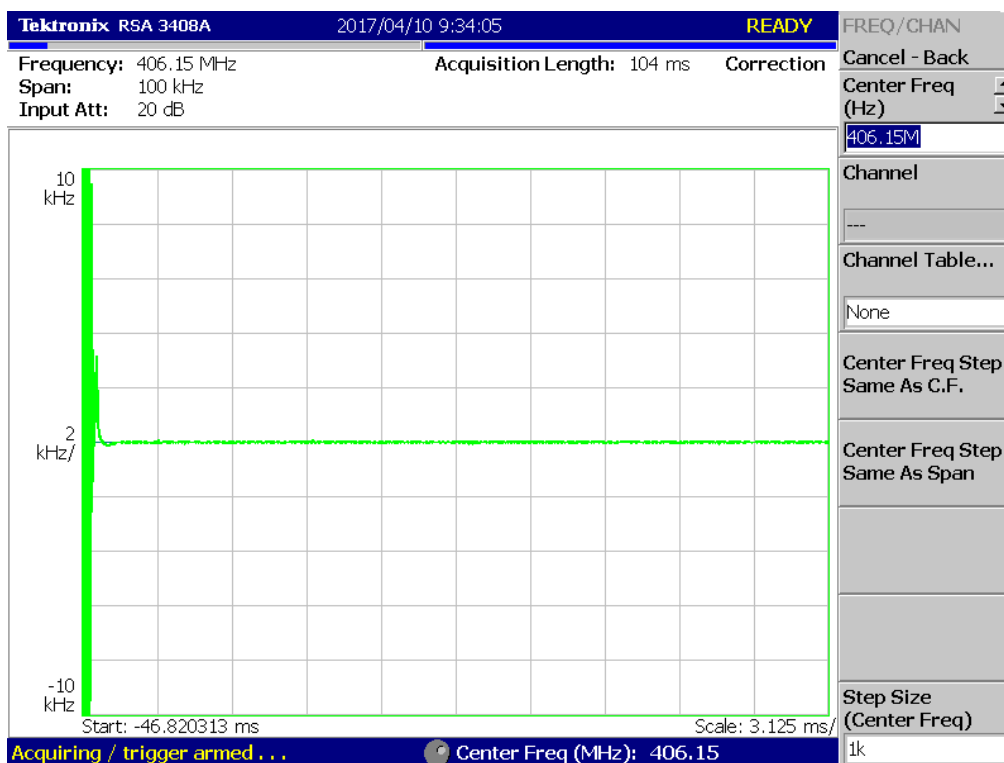
(4K00F1E, 4K00F1D, 4K00F7W \_ 491.05 MHz)\_High



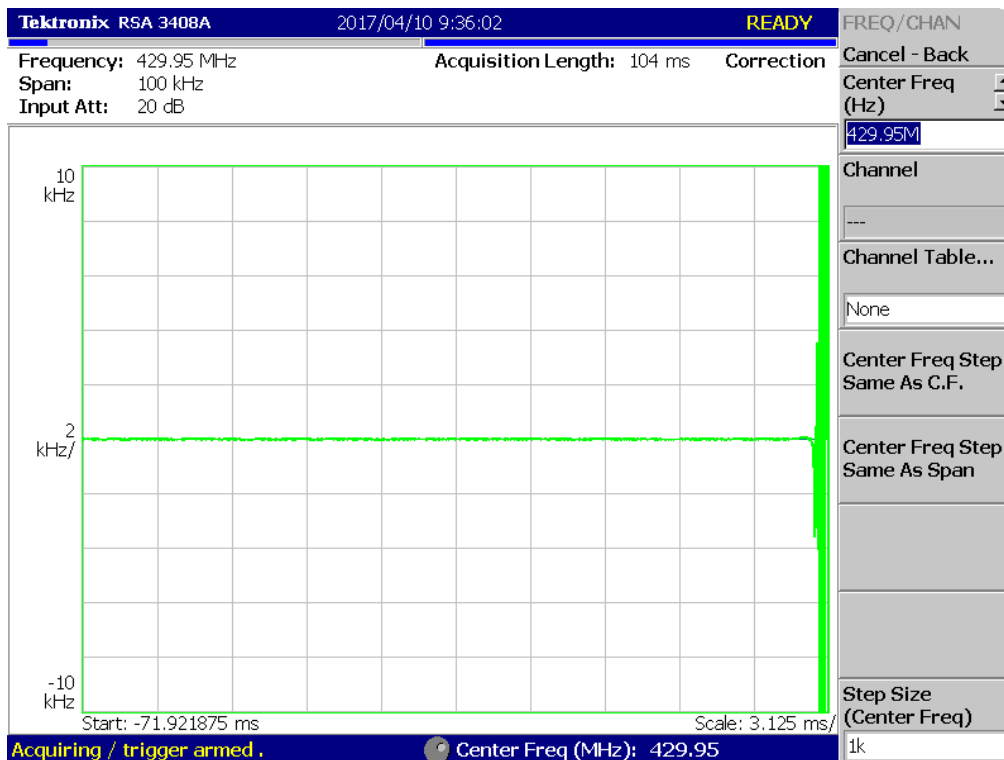
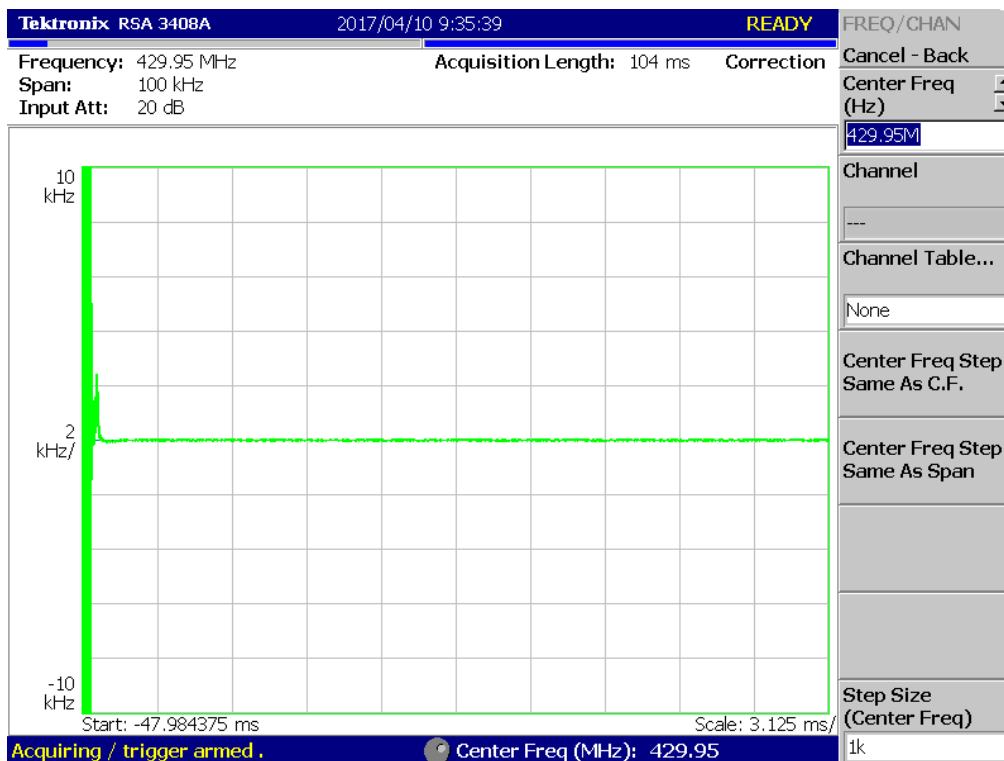
(4K00F1E, 4K00F1D, 4K00F7W \_ 511.95 MHz)\_High



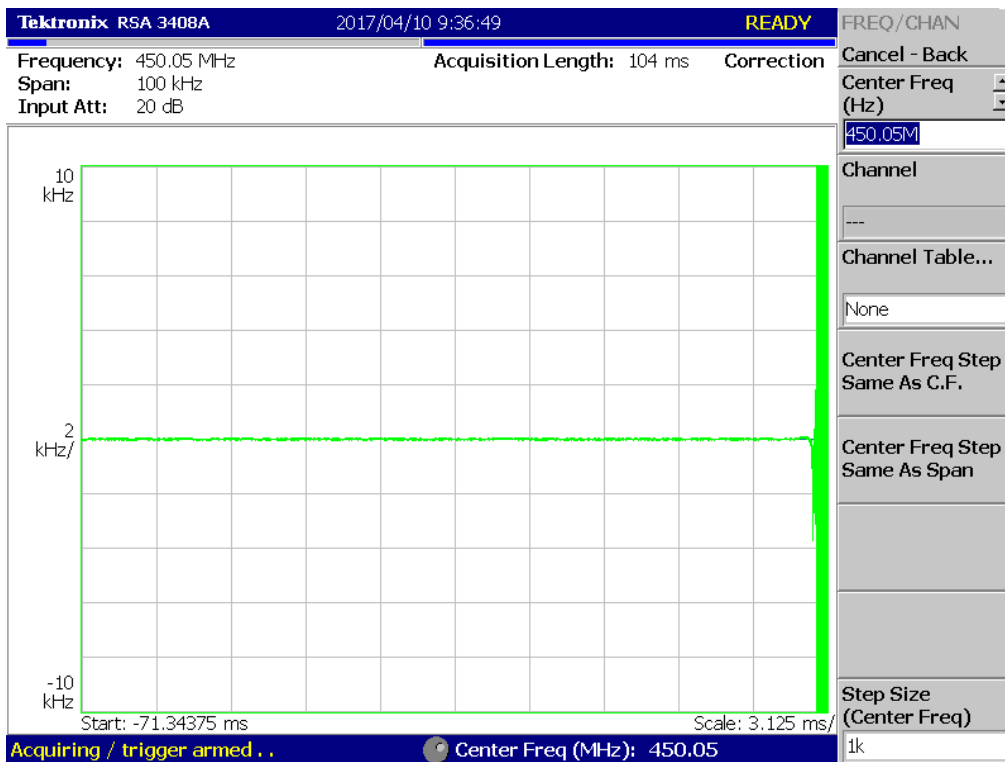
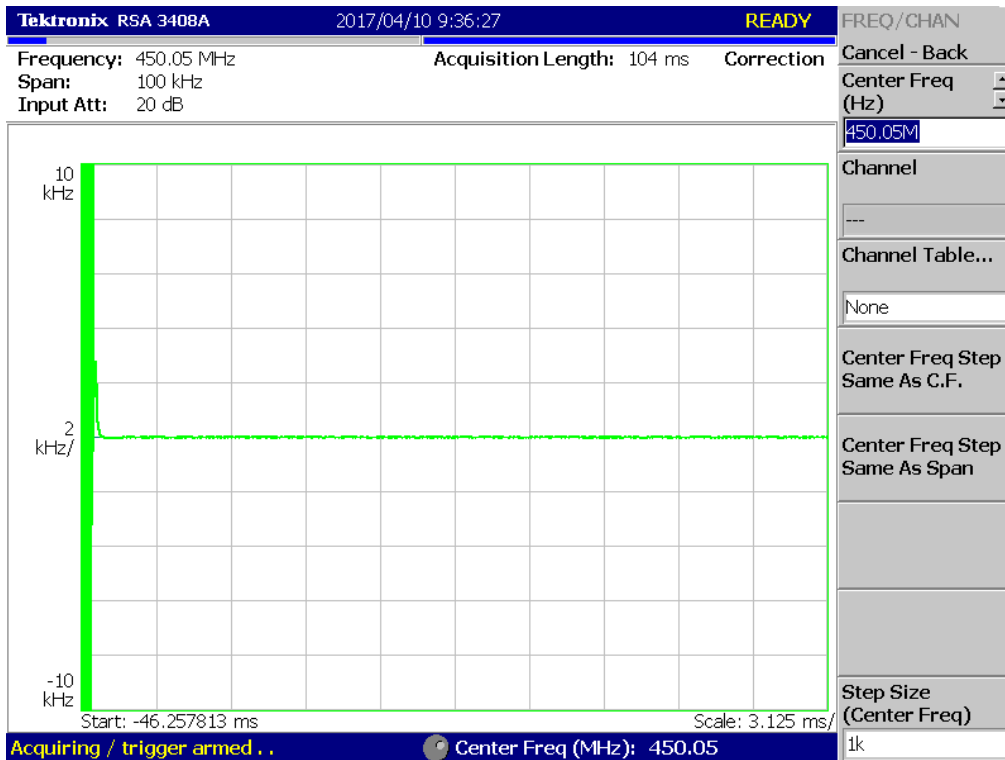
(4K00F1E, 4K00F1D, 4K00F7W \_ 406.15 MHz)\_Low



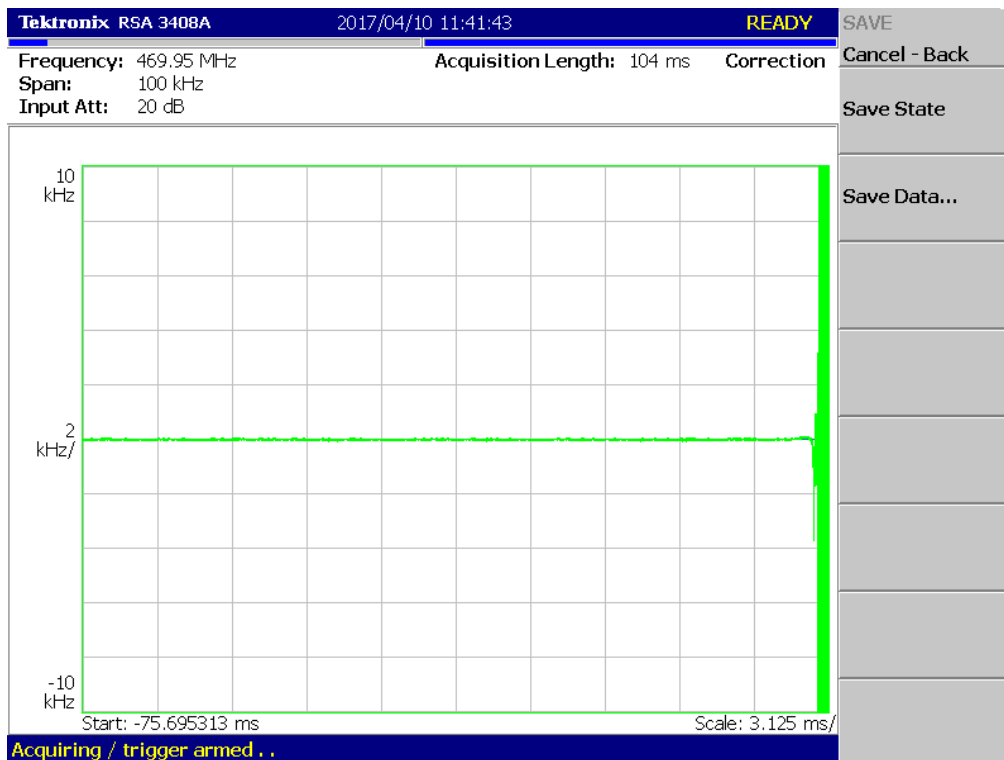
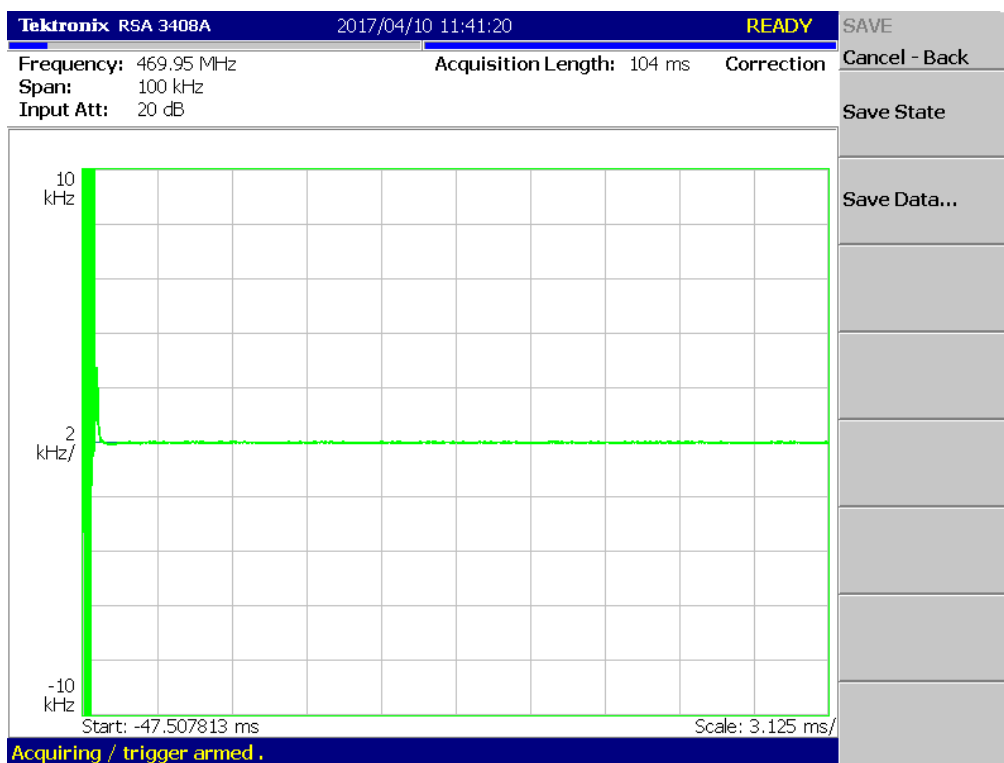
(4K00F1E, 4K00F1D, 4K00F7W \_ 429.95 MHz)\_Low



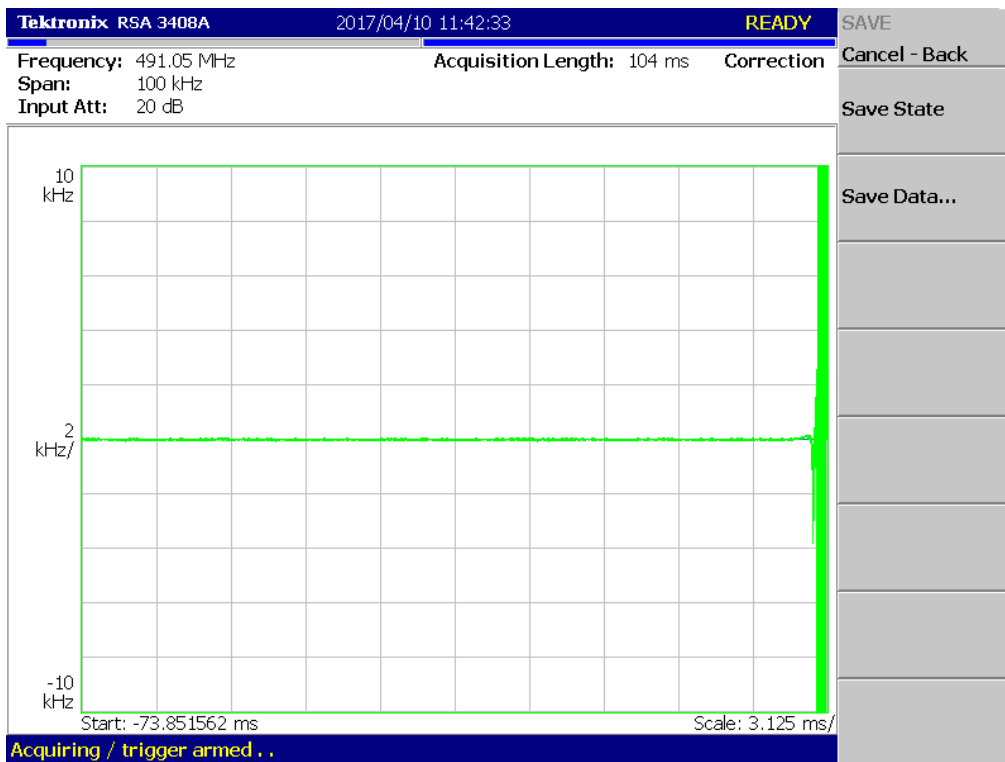
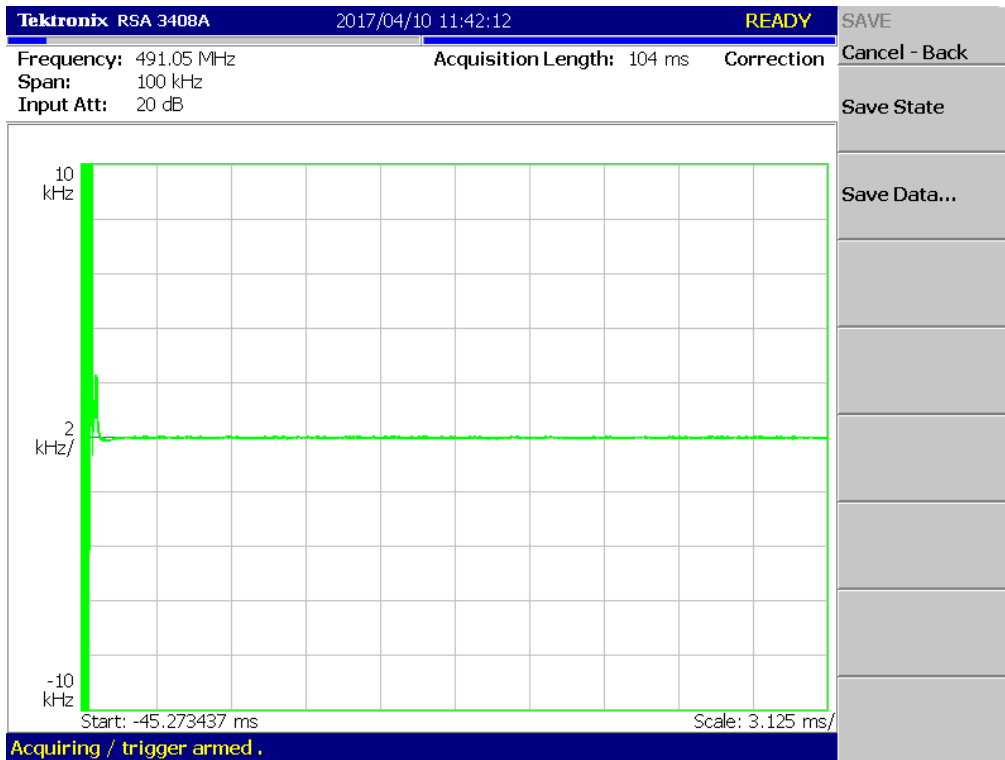
(4K00F1E, 4K00F1D, 4K00F7W \_ 450.05 MHz)\_Low



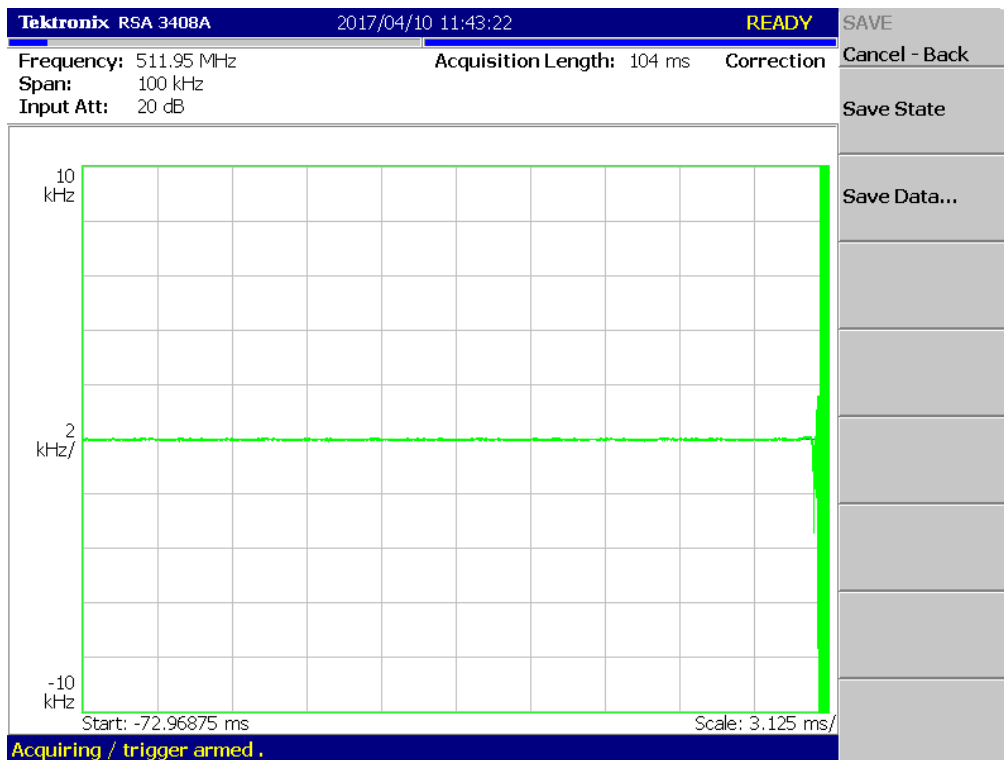
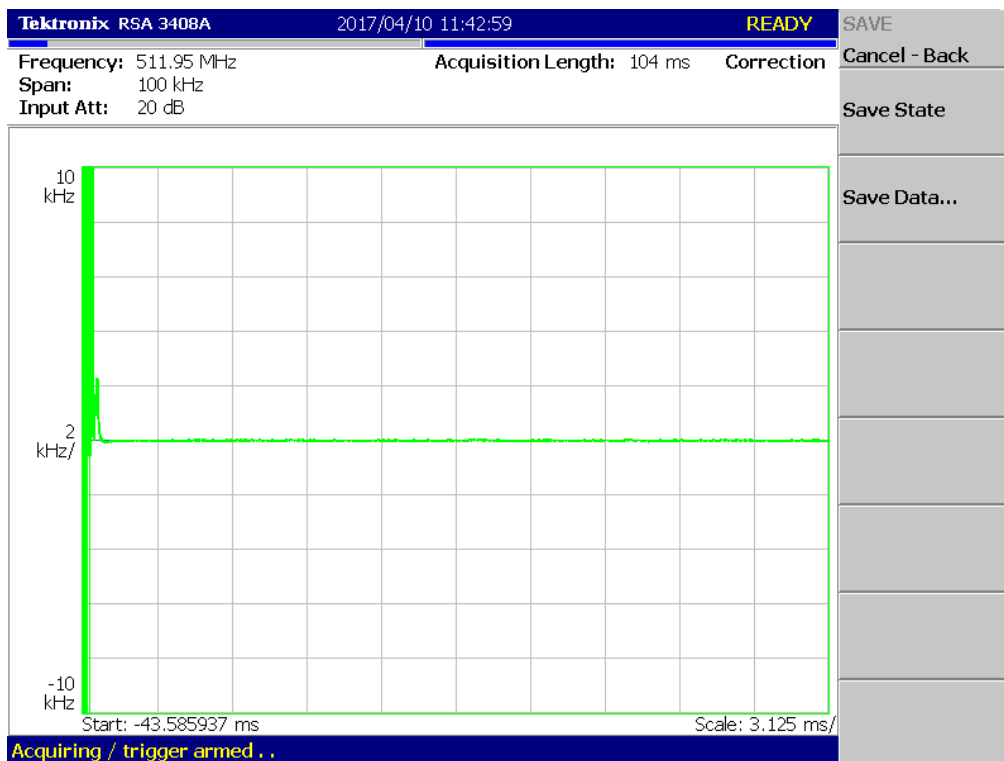
(4K00F1E, 4K00F1D, 4K00F7W \_ 469.95 MHz)\_Low



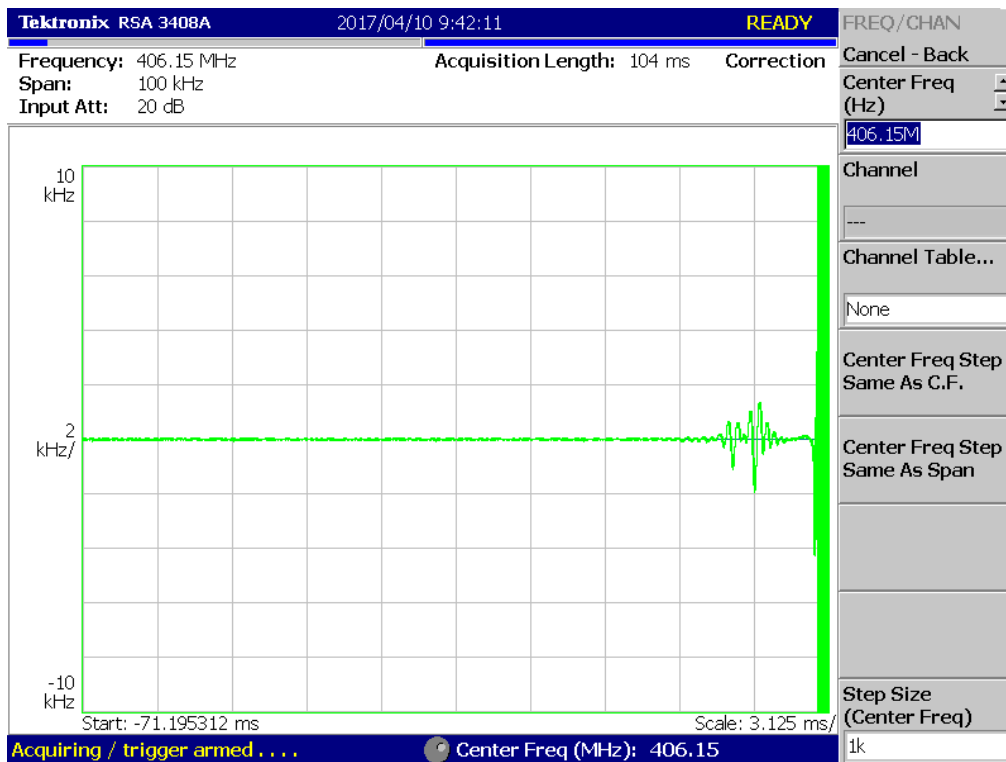
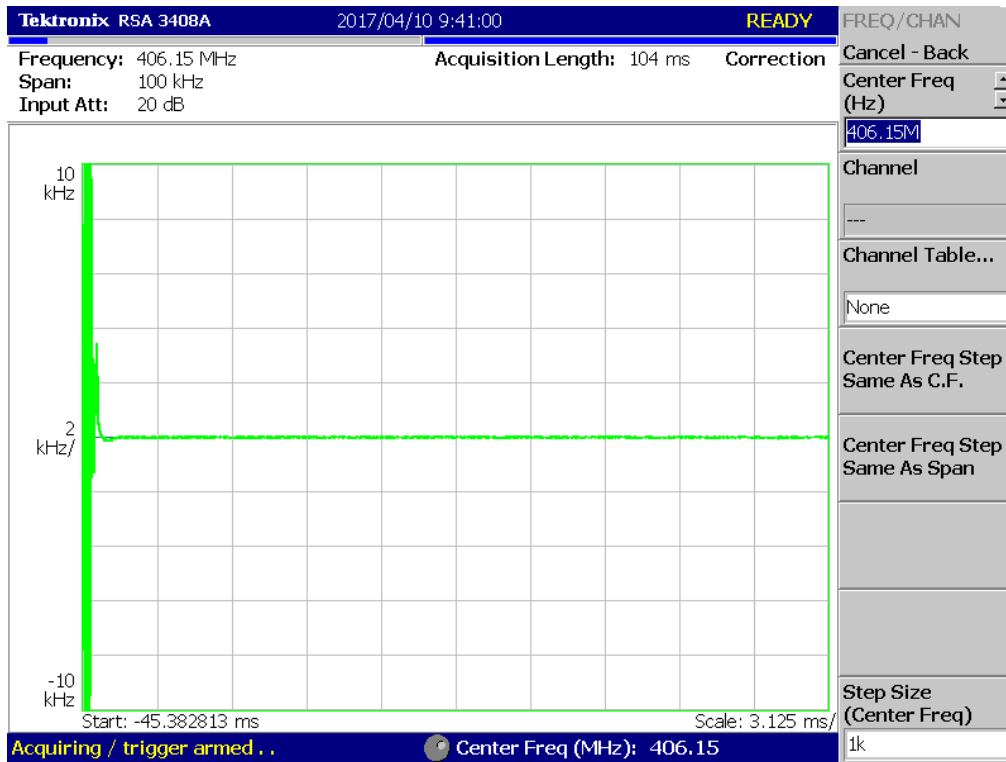
(4K00F1E, 4K00F1D, 4K00F7W \_ 491.05 MHz)\_Low



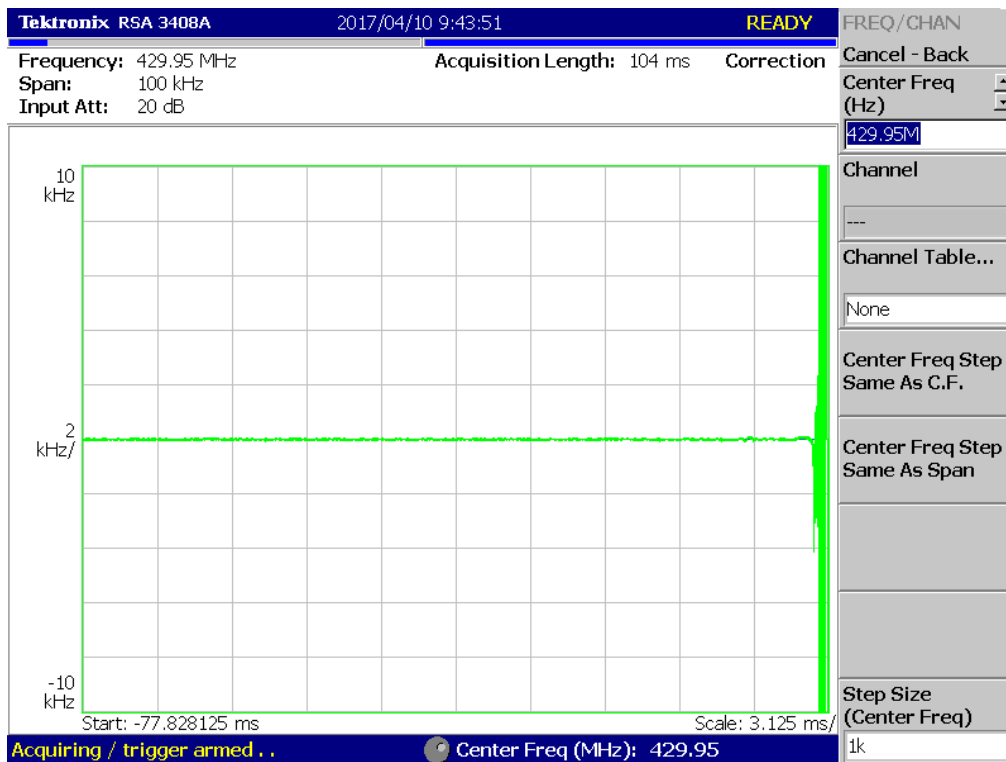
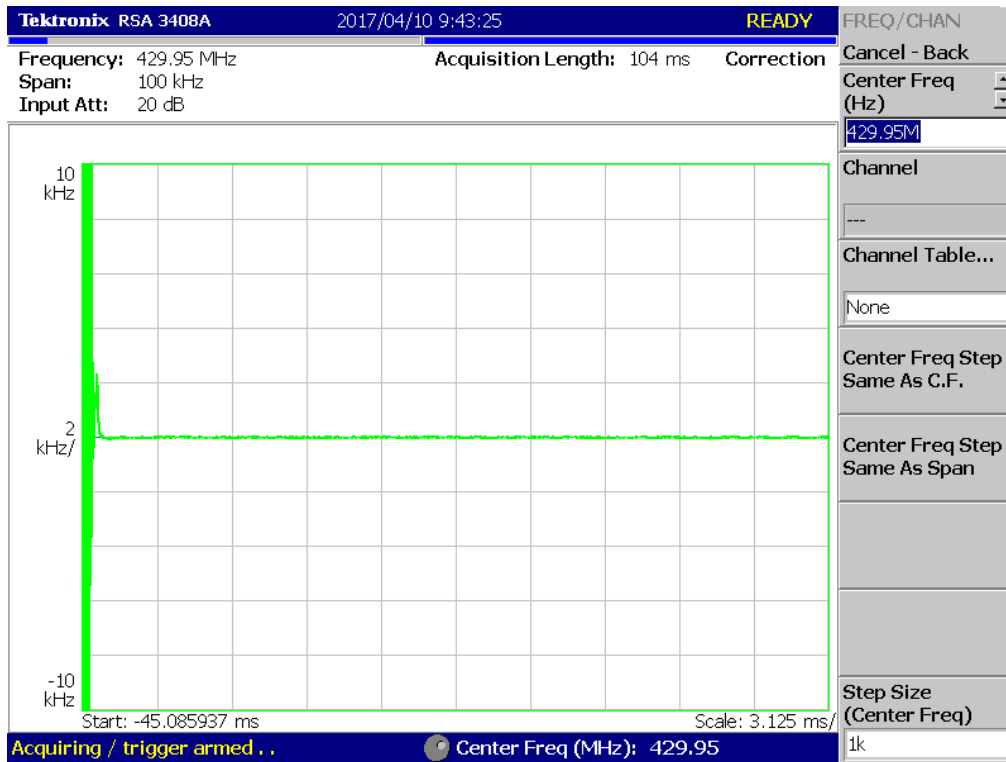
(4K00F1E, 4K00F1D, 4K00F7W \_ 511.95 MHz)\_Low



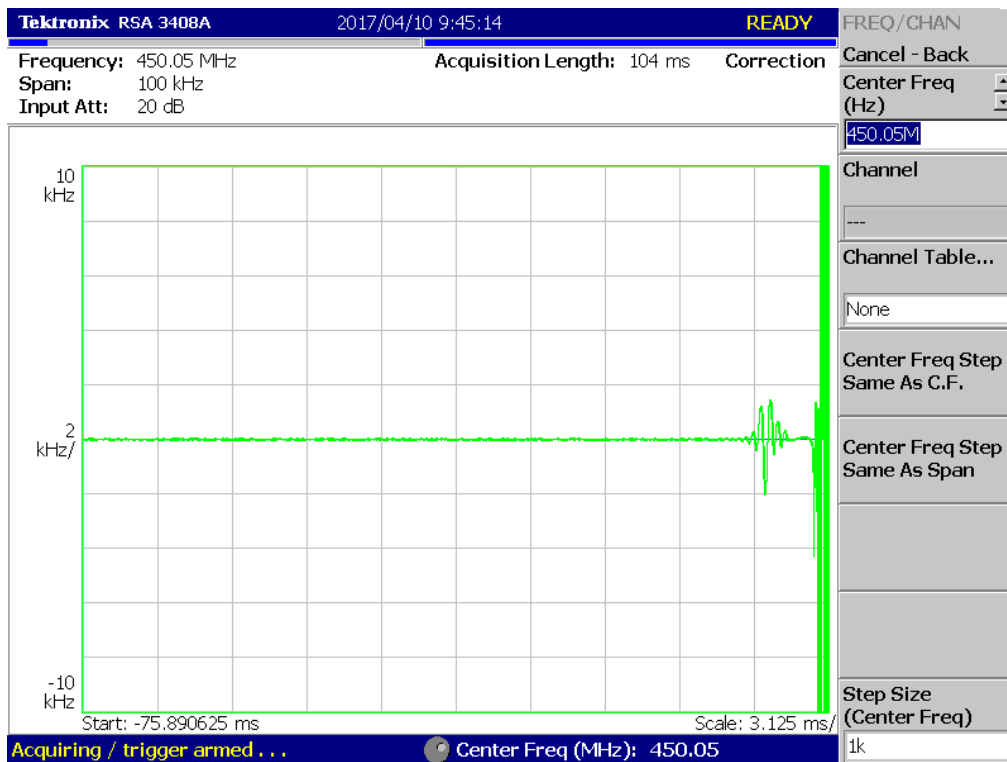
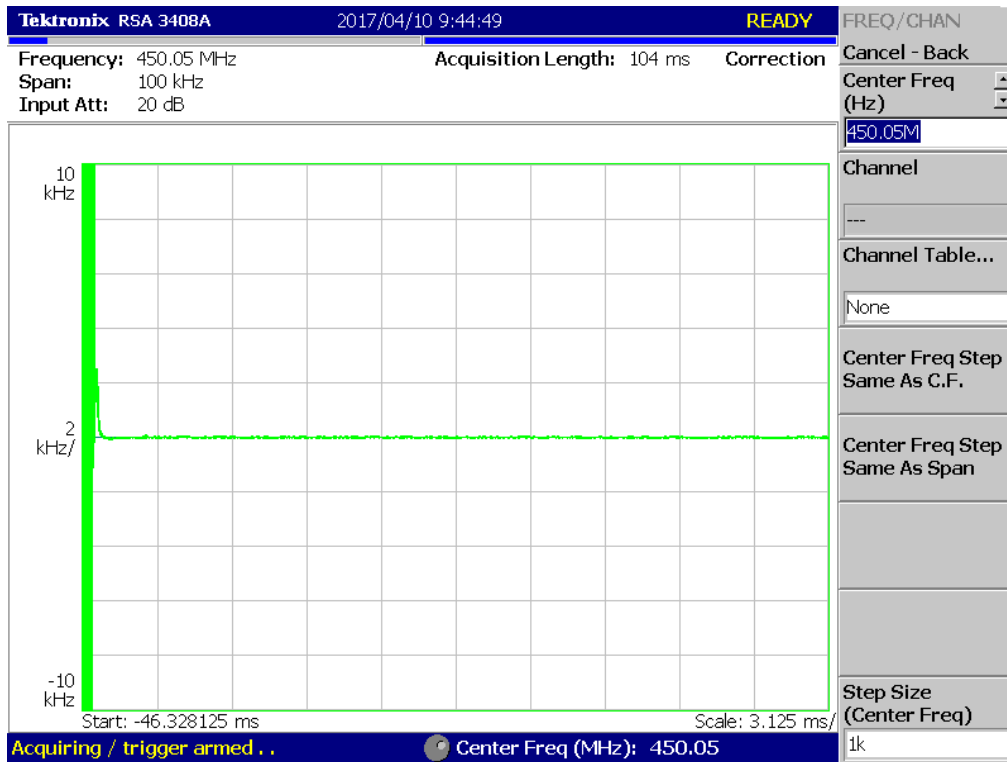
(4K00F2D\_ 406.15 MHz)\_Low



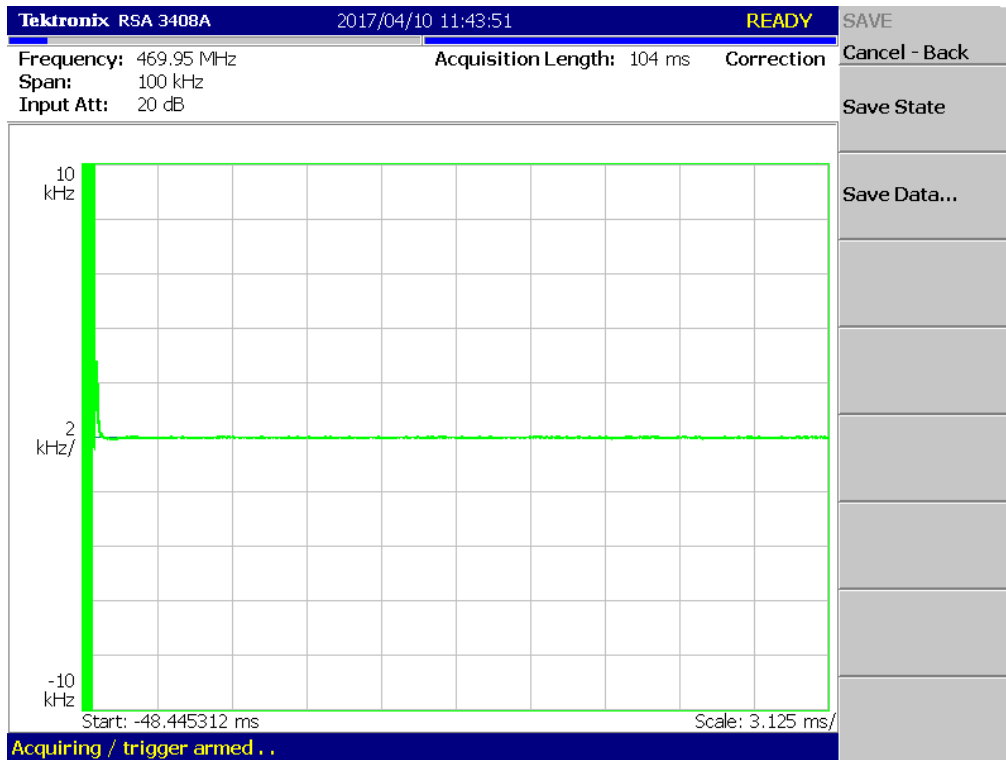
(4K00F2D\_ 429.95 MHz)\_Low



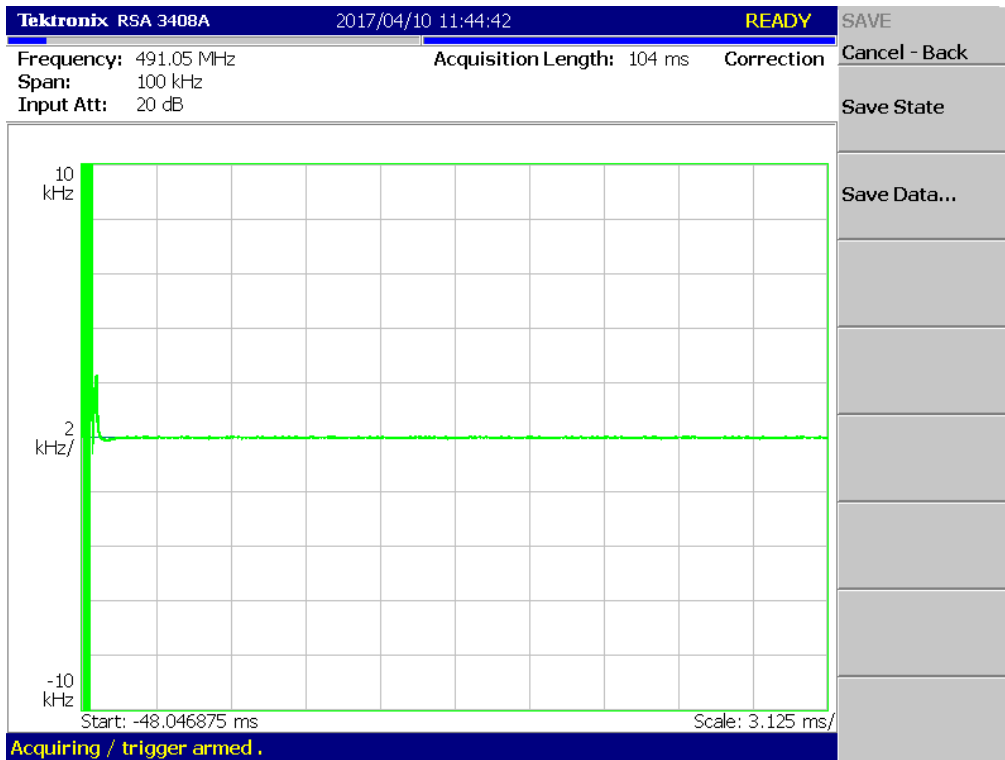
(4K00F2D\_ 450.05 MHz)\_Low



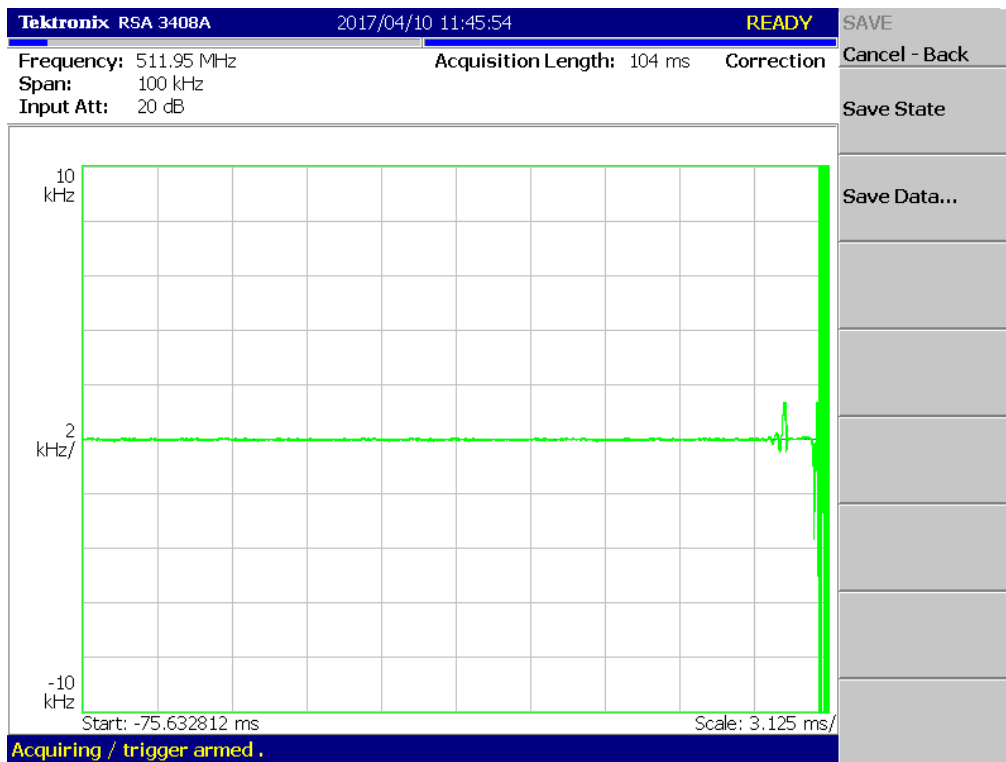
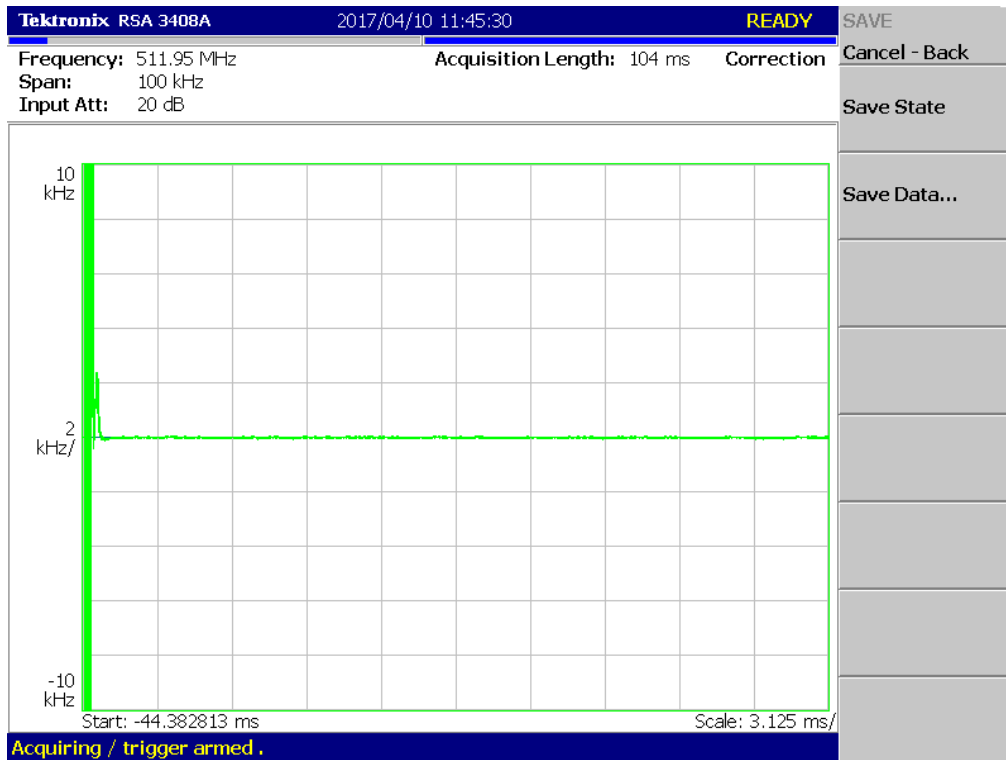
## (4K00F2D\_ 469.95 MHz)\_Low



(4K00F2D\_ 491.05 MHz)\_Low



(4K00F2D\_ 511.95 MHz)\_Low

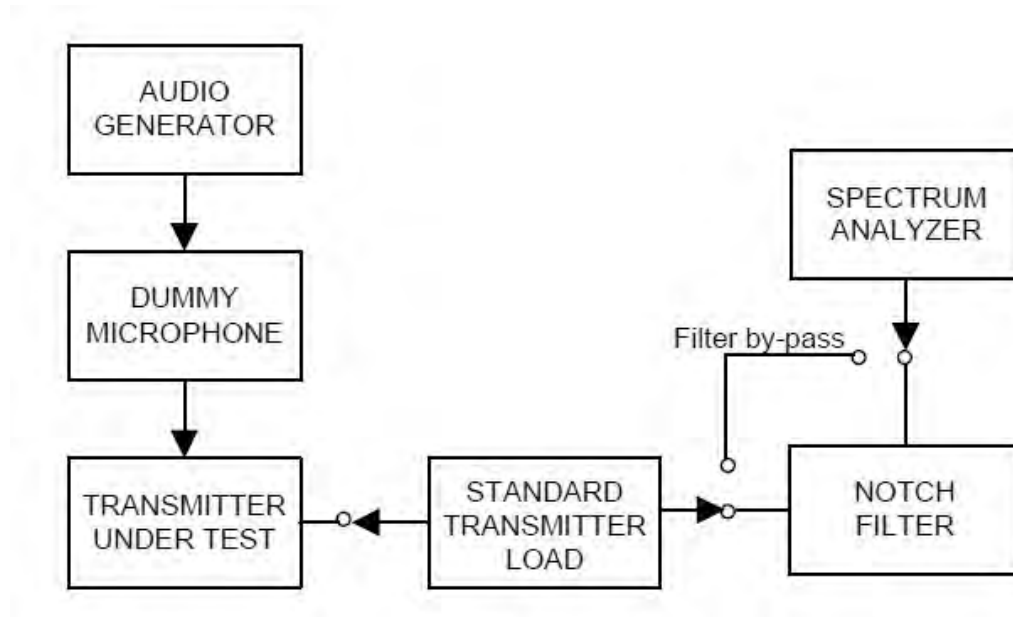


## 7.8 Unwanted Emissions : Conducted Spurious Emission

### ■ Definition

Conducted spurious emissions are emissions at the antenna terminals on a frequency or frequencies that are outside a band sufficient to ensure transmission of information of required quality for the class of communication desired.

### ■ TEST CONFIGURATION



### ■ TEST PROCEDURE

According to 2.2.13 in TIA-603-D Standard.

- e) Connect the equipment as illustrated, with the notch filter by-passed.
- f) Set the center frequency of the spectrum analyzer to the assigned transmitter frequency, key the transmitter, and set the level of the carrier to the full scale reference line.
- g) Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation. The input level shall be established at the frequency of maximum response of the audio modulation circuit.
- h) Adjust the spectrum analyzer for the following settings:
  - 1) Resolution Bandwidth = 10 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1 GHz.
  - 2) Video Bandwidth  $\geq 3$  times the resolution bandwidth.
  - 3) Sweep Speed  $\leq 2000$  Hz per second.
  - 4) Detector Mode = mean or average power.
- e) Adjust the center frequency of the spectrum analyzer for incremental coverage of the range from:
  - 1) The lowest radio frequency generated in the equipment to the carrier frequency minus the test bandwidth (see 1.3.4.4).

- 2) The carrier frequency plus the test bandwidth to a frequency less than 2 times the carrier frequency.
- f) Record the frequencies and levels of spurious emissions from step e).
- g) Unkey the transmitter. Replace the transmitter under test with the signal generator and adjust the signal level to reproduce the frequencies and levels of every spurious emission recorded in step f). Record the signal generator levels in dBm.
- h) Insert the notch filter.
- i) Adjust the spectrum analyzer for the following settings:
  - 1) Resolution Bandwidth = 10 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1 GHz.
  - 2) Video Bandwidth  $\geq 3$  times the resolution bandwidth.
  - 3) Sweep Speed  $\leq 2000$  Hz per second.
  - 4) Detector Mode = mean or average power.
- j) Key the transmitter. Adjust the center frequency of the spectrum analyzer for incremental coverage of the range from a frequency equal to 2 times the carrier frequency and to the tenth harmonic of the carrier frequency.

#### **LIMIT**

| Frequency Band (MHz)                    | Channel bandwidth (kHz) | Limit (dB)                |
|-----------------------------------------|-------------------------|---------------------------|
| 406.1 – 512 and<br>406.1 – 430, 450-470 | 12.5                    | $50 + 10\log(P)$ or 70 dB |
|                                         | 6.25                    | $55 + 10\log(P)$ or 65 dB |
|                                         | 25                      | $43 + 10\log(p)$          |

#### **Note**

1. Correct Level (dBm) : Substitute SG Level (dBm)
2. Emission Level (dBc) : Correct Level –  $10\log(P \cdot 1000)$
3. P = Carrier Output Power(W)  
( P value, please refer to Section 7.1)

## ■ TEST RESULTS

### 11K0F3E

| No. | Frequency<br>(MHz) | Band   | Setting    | Spurious<br>Frequency<br>(MHz) | Correct<br>Level<br>(dBm) | Emission<br>Level<br>(dBc) | Limit<br>(dBc) | Margin<br>(dB) |
|-----|--------------------|--------|------------|--------------------------------|---------------------------|----------------------------|----------------|----------------|
| 1   | 406.15             | Low    | High Power | 0.01                           | -37.180                   | -73.992                    | -56.812        | 17.180         |
|     |                    |        |            | 0.15                           | -36.150                   | -72.962                    | -56.812        | 16.150         |
|     |                    |        |            | 812.79                         | -36.088                   | -72.900                    | -56.812        | 16.088         |
|     |                    |        |            | 1218.52                        | -35.834                   | -72.646                    | -56.812        | 15.834         |
| 2   | 429.95             | Low    |            | 0.01                           | -37.916                   | -74.589                    | -56.673        | 17.916         |
|     |                    |        |            | 0.15                           | -35.983                   | -72.656                    | -56.673        | 15.983         |
|     |                    |        |            | 860.32                         | -38.625                   | -75.298                    | -56.673        | 18.625         |
|     |                    |        |            | 4965.94                        | -36.599                   | -73.272                    | -56.673        | 16.599         |
| 3   | 450.05             | Middle |            | 0.01                           | -36.852                   | -73.526                    | -56.674        | 16.852         |
|     |                    |        |            | 0.16                           | -39.239                   | -75.913                    | -56.674        | 19.239         |
|     |                    |        |            | 900.09                         | -40.458                   | -77.132                    | -56.674        | 20.458         |
|     |                    |        |            | 4971.94                        | -37.102                   | -73.776                    | -56.674        | 17.102         |
| 4   | 406.15             | Low    | Low Power  | 0.01                           | -38.240                   | -68.468                    | -50.228        | 18.240         |
|     |                    |        |            | 0.15                           | -36.043                   | -66.271                    | -50.228        | 16.043         |
|     |                    |        |            | 811.82                         | -36.693                   | -66.921                    | -50.228        | 16.693         |
|     |                    |        |            | 3155.24                        | -36.745                   | -66.973                    | -50.228        | 16.745         |
| 5   | 429.95             | Low    |            | 0.01                           | -38.212                   | -68.168                    | -49.956        | 18.212         |
|     |                    |        |            | 0.15                           | -39.086                   | -69.042                    | -49.956        | 19.086         |
|     |                    |        |            | 837.04                         | -49.540                   | -79.496                    | -49.956        | 29.540         |
|     |                    |        |            | 5293.98                        | -36.141                   | -66.097                    | -49.956        | 16.141         |
| 6   | 450.05             | Middle |            | 0.01                           | -36.189                   | -66.101                    | -49.912        | 16.189         |
|     |                    |        |            | 0.15                           | -39.422                   | -69.334                    | -49.912        | 19.422         |
|     |                    |        |            | 900.09                         | -41.736                   | -71.648                    | -49.912        | 21.736         |
|     |                    |        |            | 4826.43                        | -36.794                   | -66.706                    | -49.912        | 16.794         |

| No. | Frequency<br>(MHz) | Band   | Setting    | Spurious<br>Frequency<br>(MHz) | Correct<br>Level<br>(dBm) | Emission<br>Level<br>(dBc) | Limit<br>(dBc) | Margin<br>(dB) |
|-----|--------------------|--------|------------|--------------------------------|---------------------------|----------------------------|----------------|----------------|
| 1   | 470.05             | Low    | High Power | 0.01                           | -38.173                   | -74.737                    | -56.564        | 18.173         |
|     |                    |        |            | 0.17                           | -37.984                   | -74.548                    | -56.564        | 17.984         |
|     |                    |        |            | 939.86                         | -38.992                   | -75.556                    | -56.564        | 18.992         |
|     |                    |        |            | 3112.73                        | -36.509                   | -73.073                    | -56.564        | 16.509         |
| 2   | 469.95             | Low    |            | 0.01                           | -35.917                   | -72.413                    | -56.496        | 15.917         |
|     |                    |        |            | 0.15                           | -38.974                   | -75.470                    | -56.496        | 18.974         |
|     |                    |        |            | 939.86                         | -38.972                   | -75.468                    | -56.496        | 18.972         |
|     |                    |        |            | 3115.24                        | -37.288                   | -73.784                    | -56.496        | 17.288         |
| 3   | 491.05             | Middle |            | 0.01                           | -35.923                   | -72.626                    | -56.703        | 15.923         |
|     |                    |        |            | 0.16                           | -38.440                   | -75.143                    | -56.703        | 18.440         |
|     |                    |        |            | 982.54                         | -39.459                   | -76.162                    | -56.703        | 19.459         |
|     |                    |        |            | 3204.74                        | -37.193                   | -73.896                    | -56.703        | 17.193         |
| 4   | 511.95             | High   |            | 0.01                           | -37.581                   | -74.226                    | -56.645        | 17.581         |
|     |                    |        |            | 0.15                           | -35.942                   | -72.587                    | -56.645        | 15.942         |
|     |                    |        |            | 397.63                         | -46.710                   | -83.355                    | -56.645        | 26.710         |
|     |                    |        |            | 1024.00                        | -35.796                   | -72.441                    | -56.645        | 15.796         |
| 5   | 470.05             | Low    | Low Power  | 0.01                           | -37.997                   | -67.543                    | -49.546        | 17.997         |
|     |                    |        |            | 0.16                           | -38.977                   | -68.523                    | -49.546        | 18.977         |
|     |                    |        |            | 939.86                         | -42.119                   | -71.665                    | -49.546        | 22.119         |
|     |                    |        |            | 5195.97                        | -36.320                   | -65.866                    | -49.546        | 16.320         |
| 6   | 469.95             | Low    |            | 0.01                           | -37.842                   | -67.389                    | -49.547        | 17.842         |
|     |                    |        |            | 0.16                           | -39.672                   | -69.219                    | -49.547        | 19.672         |
|     |                    |        |            | 939.86                         | -41.379                   | -70.926                    | -49.547        | 21.379         |
|     |                    |        |            | 5056.95                        | -36.934                   | -66.481                    | -49.547        | 16.934         |
| 7   | 491.05             | Middle |            | 0.01                           | -36.577                   | -66.528                    | -49.951        | 16.577         |
|     |                    |        |            | 0.15                           | -40.144                   | -70.095                    | -49.951        | 20.144         |
|     |                    |        |            | 982.54                         | -42.973                   | -72.924                    | -49.951        | 22.973         |
|     |                    |        |            | 5165.96                        | -36.407                   | -66.358                    | -49.951        | 16.407         |
| 8   | 511.95             | High   |            | 0.01                           | -36.977                   | -66.774                    | -49.797        | 16.977         |
|     |                    |        |            | 0.16                           | -38.637                   | -68.434                    | -49.797        | 18.637         |
|     |                    |        |            | 101.78                         | -43.536                   | -73.333                    | -49.797        | 23.536         |
|     |                    |        |            | 4873.93                        | -37.322                   | -67.119                    | -49.797        | 17.322         |

**16K0F3E**

| No. | Frequency<br>(MHz) | Band   | Setting    | Spurious<br>Frequency<br>(MHz) | Correct<br>Level<br>(dBm) | Emission<br>Level<br>(dBc) | Limit<br>(dBc) | Margin<br>(dB) |
|-----|--------------------|--------|------------|--------------------------------|---------------------------|----------------------------|----------------|----------------|
| 1   | 406.15             | Low    | High Power | 0.01                           | -36.332                   | -73.186                    | -56.854        | 16.332         |
|     |                    |        |            | 0.15                           | -38.703                   | -75.557                    | -56.854        | 18.703         |
|     |                    |        |            | 811.82                         | -36.034                   | -72.888                    | -56.854        | 16.034         |
|     |                    |        |            | 1218.52                        | -36.523                   | -73.377                    | -56.854        | 16.523         |
| 2   | 429.95             | Low    |            | 0.01                           | -37.186                   | -73.887                    | -56.701        | 17.186         |
|     |                    |        |            | 0.16                           | -38.277                   | -74.978                    | -56.701        | 18.277         |
|     |                    |        |            | 860.32                         | -38.704                   | -75.405                    | -56.701        | 18.704         |
|     |                    |        |            | 3152.24                        | -36.839                   | -73.540                    | -56.701        | 16.839         |
| 3   | 450.05             | Middle |            | 0.01                           | -37.628                   | -74.215                    | -56.587        | 17.628         |
|     |                    |        |            | 0.15                           | -37.454                   | -74.041                    | -56.587        | 17.454         |
|     |                    |        |            | 900.09                         | -40.245                   | -76.832                    | -56.587        | 20.245         |
|     |                    |        |            | 5107.46                        | -36.062                   | -72.649                    | -56.587        | 16.062         |
| 4   | 406.15             | Low    | Low Power  | 0.01                           | -36.113                   | -66.351                    | -50.238        | 16.113         |
|     |                    |        |            | 0.15                           | -39.143                   | -69.381                    | -50.238        | 19.143         |
|     |                    |        |            | 811.82                         | -37.086                   | -67.324                    | -50.238        | 17.086         |
|     |                    |        |            | 5123.46                        | -36.785                   | -67.023                    | -50.238        | 16.785         |
| 5   | 429.95             | Low    |            | 0.01                           | -36.702                   | -66.659                    | -49.957        | 16.702         |
|     |                    |        |            | 0.16                           | -37.927                   | -67.884                    | -49.957        | 17.927         |
|     |                    |        |            | 860.32                         | -43.277                   | -73.234                    | -49.957        | 23.277         |
|     |                    |        |            | 5141.96                        | -37.085                   | -67.042                    | -49.957        | 17.085         |
| 6   | 450.05             | Middle |            | 0.01                           | -37.403                   | -67.375                    | -49.972        | 17.403         |
|     |                    |        |            | 0.15                           | -36.334                   | -66.306                    | -49.972        | 16.334         |
|     |                    |        |            | 900.09                         | -41.119                   | -71.091                    | -49.972        | 21.119         |
|     |                    |        |            | 4999.44                        | -36.738                   | -66.710                    | -49.972        | 16.738         |

| No. | Frequency<br>(MHz) | Band   | Setting    | Spurious<br>Frequency<br>(MHz) | Correct<br>Level<br>(dBm) | Emission<br>Level<br>(dBc) | Limit<br>(dBc) | Margin<br>(dB) |
|-----|--------------------|--------|------------|--------------------------------|---------------------------|----------------------------|----------------|----------------|
| 1   | 470.05             | Low    | High Power | 0.01                           | -38.201                   | -74.996                    | -56.795        | 18.201         |
|     |                    |        |            | 0.15                           | -37.244                   | -74.039                    | -56.795        | 17.244         |
|     |                    |        |            | 939.86                         | -39.316                   | -76.111                    | -56.795        | 19.316         |
|     |                    |        |            | 3151.74                        | -36.338                   | -73.133                    | -56.795        | 16.338         |
| 2   | 469.95             | Low    |            | 0.01                           | -34.196                   | -70.734                    | -56.538        | 14.196         |
|     |                    |        |            | 0.16                           | -39.518                   | -76.056                    | -56.538        | 19.518         |
|     |                    |        |            | 939.86                         | -38.887                   | -75.425                    | -56.538        | 18.887         |
|     |                    |        |            | 2807.70                        | -36.811                   | -73.349                    | -56.538        | 16.811         |
| 3   | 491.05             | Middle |            | 0.01                           | -36.644                   | -73.529                    | -56.885        | 16.644         |
|     |                    |        |            | 0.16                           | -38.785                   | -75.670                    | -56.885        | 18.785         |
|     |                    |        |            | 982.54                         | -39.169                   | -76.054                    | -56.885        | 19.169         |
|     |                    |        |            | 3021.72                        | -37.076                   | -73.961                    | -56.885        | 17.076         |
| 4   | 511.95             | High   |            | 0.01                           | -37.991                   | -74.784                    | -56.793        | 17.991         |
|     |                    |        |            | 0.15                           | -36.475                   | -73.268                    | -56.793        | 16.475         |
|     |                    |        |            | 394.72                         | -45.353                   | -82.146                    | -56.793        | 25.353         |
|     |                    |        |            | 1024.00                        | -34.873                   | -71.666                    | -56.793        | 14.873         |
| 5   | 470.05             | Low    | Low Power  | 0.01                           | -38.201                   | -74.996                    | -56.795        | 18.201         |
|     |                    |        |            | 0.15                           | -37.244                   | -74.039                    | -56.795        | 17.244         |
|     |                    |        |            | 939.86                         | -39.316                   | -76.111                    | -56.795        | 19.316         |
|     |                    |        |            | 3151.74                        | -36.338                   | -73.133                    | -56.795        | 16.338         |
| 6   | 469.95             | Low    |            | 0.01                           | -36.581                   | -66.115                    | -49.534        | 16.581         |
|     |                    |        |            | 0.15                           | -37.189                   | -66.723                    | -49.534        | 17.189         |
|     |                    |        |            | 939.86                         | -41.974                   | -71.508                    | -49.534        | 21.974         |
|     |                    |        |            | 2709.69                        | -36.805                   | -66.339                    | -49.534        | 16.805         |
| 7   | 491.05             | Middle |            | 0.01                           | -35.179                   | -65.164                    | -49.985        | 15.179         |
|     |                    |        |            | 0.16                           | -37.557                   | -67.542                    | -49.985        | 17.557         |
|     |                    |        |            | 982.54                         | -43.024                   | -73.009                    | -49.985        | 23.024         |
|     |                    |        |            | 2679.69                        | -37.050                   | -67.035                    | -49.985        | 17.050         |
| 8   | 511.95             | High   |            | 0.01                           | -37.022                   | -66.866                    | -49.844        | 17.022         |
|     |                    |        |            | 0.16                           | -38.480                   | -68.324                    | -49.844        | 18.480         |
|     |                    |        |            | 106.63                         | -43.855                   | -73.699                    | -49.844        | 23.855         |
|     |                    |        |            | 3165.24                        | -36.871                   | -66.715                    | -49.844        | 16.871         |

**7K60FXD, 7K60FXE**

| No. | Frequency<br>(MHz) | Band   | Setting    | Spurious<br>Frequency<br>(MHz) | Correct<br>Level<br>(dBm) | Emission<br>Level<br>(dBc) | Limit<br>(dBc) | Margin<br>(dB) |
|-----|--------------------|--------|------------|--------------------------------|---------------------------|----------------------------|----------------|----------------|
| 1   | 406.15             | Low    | High Power | 0.01                           | -34.660                   | -71.511                    | -56.851        | 14.660         |
|     |                    |        |            | 0.15                           | -37.735                   | -74.586                    | -56.851        | 17.735         |
|     |                    |        |            | 812.79                         | -36.449                   | -73.300                    | -56.851        | 16.449         |
|     |                    |        |            | 1218.52                        | -36.513                   | -73.364                    | -56.851        | 16.513         |
| 2   | 429.95             | Low    |            | 0.01                           | -35.648                   | -72.351                    | -56.703        | 15.648         |
|     |                    |        |            | 0.15                           | -36.660                   | -73.363                    | -56.703        | 16.660         |
|     |                    |        |            | 860.32                         | -39.303                   | -76.006                    | -56.703        | 19.303         |
|     |                    |        |            | 3191.24                        | -36.986                   | -73.689                    | -56.703        | 16.986         |
| 3   | 450.05             | Middle |            | 0.01                           | -35.808                   | -72.323                    | -56.515        | 15.808         |
|     |                    |        |            | 0.15                           | -37.291                   | -73.806                    | -56.515        | 17.291         |
|     |                    |        |            | 900.09                         | -40.552                   | -77.067                    | -56.515        | 20.552         |
|     |                    |        |            | 5423.99                        | -37.094                   | -73.609                    | -56.515        | 17.094         |
| 4   | 406.15             | Low    | Low Power  | 0.01                           | -35.786                   | -65.978                    | -50.192        | 15.786         |
|     |                    |        |            | 0.17                           | -39.152                   | -69.344                    | -50.192        | 19.152         |
|     |                    |        |            | 811.82                         | -37.016                   | -67.208                    | -50.192        | 17.016         |
|     |                    |        |            | 3174.74                        | -37.338                   | -67.530                    | -50.192        | 17.338         |
| 5   | 429.95             | Low    |            | 0.01                           | -36.498                   | -66.446                    | -49.948        | 16.498         |
|     |                    |        |            | 0.16                           | -35.983                   | -65.931                    | -49.948        | 15.983         |
|     |                    |        |            | 860.32                         | -44.303                   | -74.251                    | -49.948        | 24.303         |
|     |                    |        |            | 5226.47                        | -36.896                   | -66.844                    | -49.948        | 16.896         |
| 6   | 450.05             | Middle |            | 0.01                           | -36.881                   | -66.711                    | -49.830        | 16.881         |
|     |                    |        |            | 0.16                           | -37.212                   | -67.042                    | -49.830        | 17.212         |
|     |                    |        |            | 900.09                         | -41.595                   | -71.425                    | -49.830        | 21.595         |
|     |                    |        |            | 5159.96                        | -36.599                   | -66.429                    | -49.830        | 16.599         |

| No. | Frequency<br>(MHz) | Band   | Setting    | Spurious<br>Frequency<br>(MHz) | Correct<br>Level<br>(dBm) | Emission<br>Level<br>(dBc) | Limit<br>(dBc) | Margin<br>(dB) |
|-----|--------------------|--------|------------|--------------------------------|---------------------------|----------------------------|----------------|----------------|
| 1   | 469.95             | Low    | High Power | 0.01                           | -38.048                   | -74.690                    | -56.642        | 18.048         |
|     |                    |        |            | 0.15                           | -38.053                   | -74.695                    | -56.642        | 18.053         |
|     |                    |        |            | 939.86                         | -39.360                   | -76.002                    | -56.642        | 19.360         |
|     |                    |        |            | 3166.74                        | -35.664                   | -72.306                    | -56.642        | 15.664         |
| 2   | 491.05             | Low    |            | 0.01                           | -36.102                   | -72.865                    | -56.763        | 16.102         |
|     |                    |        |            | 0.15                           | -37.375                   | -74.138                    | -56.763        | 17.375         |
|     |                    |        |            | 982.54                         | -39.557                   | -76.320                    | -56.763        | 19.557         |
|     |                    |        |            | 5071.95                        | -36.661                   | -73.424                    | -56.763        | 16.661         |
| 3   | 511.95             | Middle |            | 0.01                           | -35.607                   | -72.322                    | -56.715        | 15.607         |
|     |                    |        |            | 0.19                           | -39.120                   | -75.835                    | -56.715        | 19.120         |
|     |                    |        |            | 404.42                         | -46.260                   | -82.975                    | -56.715        | 26.260         |
|     |                    |        |            | 1024.00                        | -35.530                   | -72.245                    | -56.715        | 15.530         |
| 4   | 469.95             | Low    | Low Power  | 0.01                           | -37.242                   | -66.897                    | -49.655        | 17.242         |
|     |                    |        |            | 0.16                           | -38.895                   | -68.550                    | -49.655        | 18.895         |
|     |                    |        |            | 939.86                         | -42.134                   | -71.789                    | -49.655        | 22.134         |
|     |                    |        |            | 5157.46                        | -36.461                   | -66.116                    | -49.655        | 16.461         |
| 5   | 491.05             | Low    |            | 0.01                           | -36.591                   | -66.566                    | -49.975        | 16.591         |
|     |                    |        |            | 0.15                           | -38.055                   | -68.030                    | -49.975        | 18.055         |
|     |                    |        |            | 982.54                         | -43.491                   | -73.466                    | -49.975        | 23.491         |
|     |                    |        |            | 5162.96                        | -37.257                   | -67.232                    | -49.975        | 17.257         |
| 6   | 511.95             | Middle |            | 0.02                           | -36.614                   | -66.447                    | -49.833        | 16.614         |
|     |                    |        |            | 0.16                           | -39.661                   | -69.494                    | -49.833        | 19.661         |
|     |                    |        |            | 104.69                         | -41.511                   | -71.344                    | -49.833        | 21.511         |
|     |                    |        |            | 5102.96                        | -36.616                   | -66.449                    | -49.833        | 16.616         |

**8K30F1E, 8K30F1D, 8K30F7W**

| No. | Frequency<br>(MHz) | Band   | Setting    | Spurious<br>Frequency<br>(MHz) | Correct<br>Level<br>(dBm) | Emission<br>Level<br>(dBc) | Limit<br>(dBc) | Margin<br>(dB) |
|-----|--------------------|--------|------------|--------------------------------|---------------------------|----------------------------|----------------|----------------|
| 1   | 406.15             | Low    | High Power | 0.01                           | -38.659                   | -75.593                    | -56.934        | 18.659         |
|     |                    |        |            | 0.15                           | -37.283                   | -74.217                    | -56.934        | 17.283         |
|     |                    |        |            | 812.79                         | -36.316                   | -73.250                    | -56.934        | 16.316         |
|     |                    |        |            | 1218.52                        | -36.517                   | -73.451                    | -56.934        | 16.517         |
| 2   | 429.95             | Low    |            | 0.01                           | -37.715                   | -74.504                    | -56.789        | 17.715         |
|     |                    |        |            | 0.15                           | -39.317                   | -76.106                    | -56.789        | 19.317         |
|     |                    |        |            | 860.32                         | -38.764                   | -75.553                    | -56.789        | 18.764         |
|     |                    |        |            | 2679.69                        | -37.079                   | -73.868                    | -56.789        | 17.079         |
| 3   | 450.05             | Middle |            | 0.01                           | -35.122                   | -71.632                    | -56.510        | 15.122         |
|     |                    |        |            | 0.16                           | -37.029                   | -73.539                    | -56.510        | 17.029         |
|     |                    |        |            | 900.09                         | -41.068                   | -77.578                    | -56.510        | 21.068         |
|     |                    |        |            | 5116.46                        | -37.011                   | -73.521                    | -56.510        | 17.011         |
| 4   | 406.15             | Low    | Low Power  | 0.01                           | -37.020                   | -67.210                    | -50.190        | 17.020         |
|     |                    |        |            | 0.16                           | -39.235                   | -69.425                    | -50.190        | 19.235         |
|     |                    |        |            | 812.79                         | -37.380                   | -67.570                    | -50.190        | 17.380         |
|     |                    |        |            | 5173.96                        | -36.030                   | -66.220                    | -50.190        | 16.030         |
| 5   | 429.95             | Low    |            | 0.01                           | -35.931                   | -65.902                    | -49.971        | 15.931         |
|     |                    |        |            | 0.20                           | -40.429                   | -70.400                    | -49.971        | 20.429         |
|     |                    |        |            | 860.32                         | -43.767                   | -73.738                    | -49.971        | 23.767         |
|     |                    |        |            | 5482.50                        | -35.646                   | -65.617                    | -49.971        | 15.646         |
| 6   | 450.05             | Middle |            | 0.01                           | -34.467                   | -64.337                    | -49.870        | 14.467         |
|     |                    |        |            | 0.15                           | -38.222                   | -68.092                    | -49.870        | 18.222         |
|     |                    |        |            | 900.09                         | -40.931                   | -70.801                    | -49.870        | 20.931         |
|     |                    |        |            | 5168.96                        | -36.771                   | -66.641                    | -49.870        | 16.771         |

| No. | Frequency<br>(MHz) | Band   | Setting    | Spurious<br>Frequency<br>(MHz) | Correct<br>Level<br>(dBm) | Emission<br>Level<br>(dBc) | Limit<br>(dBc) | Margin<br>(dB) |
|-----|--------------------|--------|------------|--------------------------------|---------------------------|----------------------------|----------------|----------------|
| 1   | 469.95             | Low    | High Power | 0.01                           | -38.083                   | -74.654                    | -56.571        | 18.083         |
|     |                    |        |            | 0.15                           | -37.590                   | -74.161                    | -56.571        | 17.590         |
|     |                    |        |            | 939.86                         | -38.757                   | -75.328                    | -56.571        | 18.757         |
|     |                    |        |            | 5413.49                        | -36.867                   | -73.438                    | -56.571        | 16.867         |
| 2   | 491.05             | Low    |            | 0.01                           | -37.052                   | -73.788                    | -56.736        | 17.052         |
|     |                    |        |            | 0.16                           | -38.098                   | -74.834                    | -56.736        | 18.098         |
|     |                    |        |            | 982.54                         | -39.560                   | -76.296                    | -56.736        | 19.560         |
|     |                    |        |            | 5245.97                        | -36.619                   | -73.355                    | -56.736        | 16.619         |
| 3   | 511.95             | Middle |            | 0.01                           | -36.980                   | -73.680                    | -56.700        | 16.980         |
|     |                    |        |            | 0.16                           | -37.548                   | -74.248                    | -56.700        | 17.548         |
|     |                    |        |            | 376.29                         | -46.303                   | -83.003                    | -56.700        | 26.303         |
|     |                    |        |            | 1024.00                        | -34.764                   | -71.464                    | -56.700        | 14.764         |
| 4   | 469.95             | Low    | Low Power  | 0.01                           | -36.383                   | -65.985                    | -49.602        | 16.383         |
|     |                    |        |            | 0.15                           | -37.132                   | -66.734                    | -49.602        | 17.132         |
|     |                    |        |            | 939.86                         | -41.745                   | -71.347                    | -49.602        | 21.745         |
|     |                    |        |            | 5389.99                        | -36.771                   | -66.373                    | -49.602        | 16.771         |
| 5   | 491.05             | Low    |            | 0.01                           | -35.955                   | -65.922                    | -49.967        | 15.955         |
|     |                    |        |            | 0.16                           | -39.034                   | -69.001                    | -49.967        | 19.034         |
|     |                    |        |            | 982.54                         | -43.432                   | -73.399                    | -49.967        | 23.432         |
|     |                    |        |            | 3046.23                        | -36.626                   | -66.593                    | -49.967        | 16.626         |
| 6   | 511.95             | Middle |            | 0.01                           | -37.510                   | -67.332                    | -49.822        | 17.510         |
|     |                    |        |            | 0.16                           | -37.553                   | -67.375                    | -49.822        | 17.553         |
|     |                    |        |            | 102.75                         | -43.302                   | -73.124                    | -49.822        | 23.302         |
|     |                    |        |            | 5468.50                        | -36.424                   | -66.246                    | -49.822        | 16.424         |

**4K00F1E, 4K00F1D, 4K00F7W**

| No. | Frequency<br>(MHz) | Band   | Setting    | Spurious<br>Frequency<br>(MHz) | Correct<br>Level<br>(dBm) | Emission<br>Level<br>(dBc) | Limit<br>(dBc) | Margin<br>(dB) |
|-----|--------------------|--------|------------|--------------------------------|---------------------------|----------------------------|----------------|----------------|
| 1   | 406.15             | Low    | High Power | 0.01                           | -37.507                   | -74.325                    | -56.818        | 17.507         |
|     |                    |        |            | 0.16                           | -39.273                   | -76.091                    | -56.818        | 19.273         |
|     |                    |        |            | 812.79                         | -35.989                   | -72.807                    | -56.818        | 15.989         |
|     |                    |        |            | 1219.02                        | -36.363                   | -73.181                    | -56.818        | 16.363         |
| 2   | 429.95             | Low    |            | 0.01                           | -36.411                   | -73.124                    | -56.713        | 16.411         |
|     |                    |        |            | 0.15                           | -38.268                   | -74.981                    | -56.713        | 18.268         |
|     |                    |        |            | 860.32                         | -39.159                   | -75.872                    | -56.713        | 19.159         |
|     |                    |        |            | 3140.74                        | -36.221                   | -72.934                    | -56.713        | 16.221         |
| 3   | 450.05             | Middle |            | 0.01                           | -34.210                   | -70.730                    | -56.520        | 14.210         |
|     |                    |        |            | 0.15                           | -37.093                   | -73.613                    | -56.520        | 17.093         |
|     |                    |        |            | 900.09                         | -40.609                   | -77.129                    | -56.520        | 20.609         |
|     |                    |        |            | 3065.23                        | -36.813                   | -73.333                    | -56.520        | 16.813         |
| 4   | 406.15             | Low    | Low Power  | 0.01                           | -38.089                   | -74.907                    | -56.818        | 18.089         |
|     |                    |        |            | 0.17                           | -37.732                   | -74.550                    | -56.818        | 17.732         |
|     |                    |        |            | 812.79                         | -37.547                   | -74.365                    | -56.818        | 17.547         |
|     |                    |        |            | 3036.23                        | -36.855                   | -73.673                    | -56.818        | 16.855         |
| 5   | 429.95             | Low    |            | 0.01                           | -36.652                   | -73.342                    | -56.690        | 16.652         |
|     |                    |        |            | 0.15                           | -38.833                   | -75.523                    | -56.690        | 18.833         |
|     |                    |        |            | 860.32                         | -45.502                   | -82.192                    | -56.690        | 25.502         |
|     |                    |        |            | 5137.96                        | -36.790                   | -73.480                    | -56.690        | 16.790         |
| 6   | 450.05             | Middle |            | 0.01                           | -36.219                   | -72.726                    | -56.507        | 16.219         |
|     |                    |        |            | 0.16                           | -38.676                   | -75.183                    | -56.507        | 18.676         |
|     |                    |        |            | 900.09                         | -41.008                   | -77.515                    | -56.507        | 21.008         |
|     |                    |        |            | 3165.24                        | -36.699                   | -73.206                    | -56.507        | 16.699         |

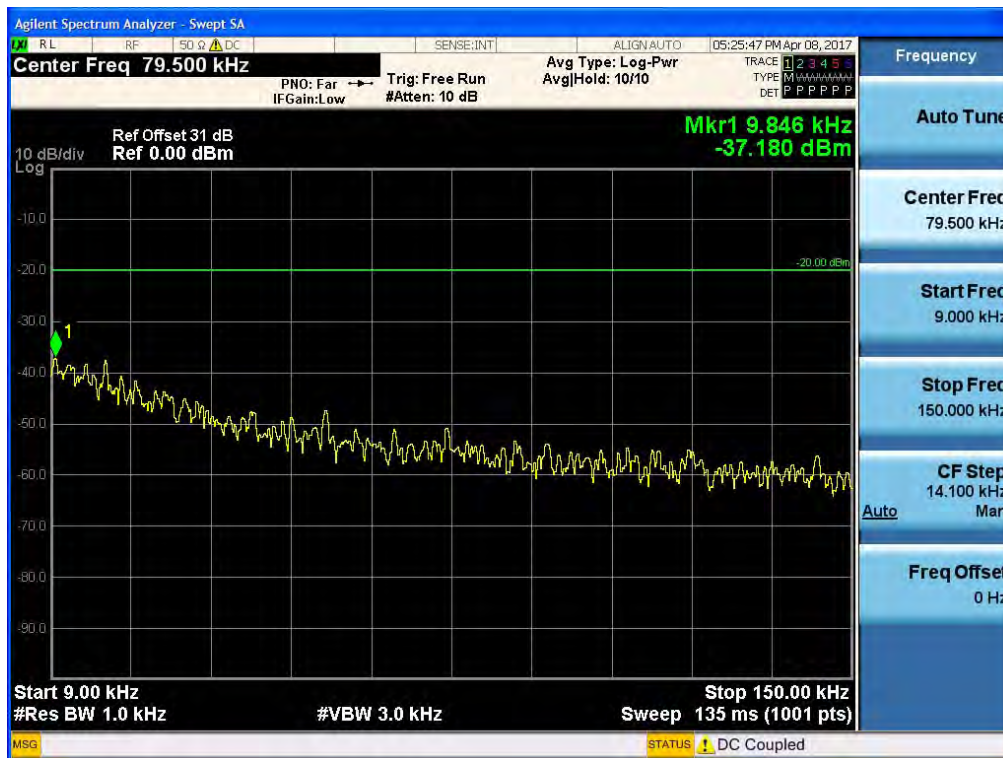
| No. | Frequency<br>(MHz) | Band   | Setting    | Spurious<br>Frequency<br>(MHz) | Correct<br>Level<br>(dBm) | Emission<br>Level<br>(dBc) | Limit<br>(dBc) | Margin<br>(dB) |
|-----|--------------------|--------|------------|--------------------------------|---------------------------|----------------------------|----------------|----------------|
| 1   | 469.95             | Low    | High Power | 0.01                           | -34.043                   | -70.762                    | -56.719        | 14.043         |
|     |                    |        |            | 0.16                           | -39.525                   | -76.244                    | -56.719        | 19.525         |
|     |                    |        |            | 939.86                         | -38.922                   | -75.641                    | -56.719        | 18.922         |
|     |                    |        |            | 3688.30                        | -36.551                   | -73.270                    | -56.719        | 16.551         |
| 2   | 491.05             | Low    |            | 0.01                           | -37.419                   | -74.232                    | -56.813        | 17.419         |
|     |                    |        |            | 0.15                           | -40.002                   | -76.815                    | -56.813        | 20.002         |
|     |                    |        |            | 982.54                         | -38.777                   | -75.590                    | -56.813        | 18.777         |
|     |                    |        |            | 3109.73                        | -36.701                   | -73.514                    | -56.813        | 16.701         |
| 3   | 511.95             | Middle |            | 0.01                           | -36.518                   | -73.276                    | -56.758        | 16.518         |
|     |                    |        |            | 0.15                           | -37.319                   | -74.077                    | -56.758        | 17.319         |
|     |                    |        |            | 372.41                         | -46.819                   | -83.577                    | -56.758        | 26.819         |
|     |                    |        |            | 1024.00                        | -35.628                   | -72.386                    | -56.758        | 15.628         |
| 4   | 469.95             | Low    | Low Power  | 0.01                           | -36.929                   | -66.598                    | -49.669        | 16.929         |
|     |                    |        |            | 0.15                           | -40.610                   | -70.279                    | -49.669        | 20.610         |
|     |                    |        |            | 939.86                         | -41.815                   | -71.484                    | -49.669        | 21.815         |
|     |                    |        |            | 5033.95                        | -36.646                   | -66.315                    | -49.669        | 16.646         |
| 5   | 491.05             | Low    |            | 0.01                           | -36.683                   | -66.663                    | -49.980        | 16.683         |
|     |                    |        |            | 0.16                           | -38.931                   | -68.911                    | -49.980        | 18.931         |
|     |                    |        |            | 982.54                         | -43.068                   | -73.048                    | -49.980        | 23.068         |
|     |                    |        |            | 3200.74                        | -36.964                   | -66.944                    | -49.980        | 16.964         |
| 6   | 511.95             | Middle |            | 0.01                           | -36.381                   | -66.157                    | -49.776        | 16.381         |
|     |                    |        |            | 0.15                           | -39.561                   | -69.337                    | -49.776        | 19.561         |
|     |                    |        |            | 101.78                         | -43.908                   | -73.684                    | -49.776        | 23.908         |
|     |                    |        |            | 3183.24                        | -36.740                   | -66.516                    | -49.776        | 16.740         |

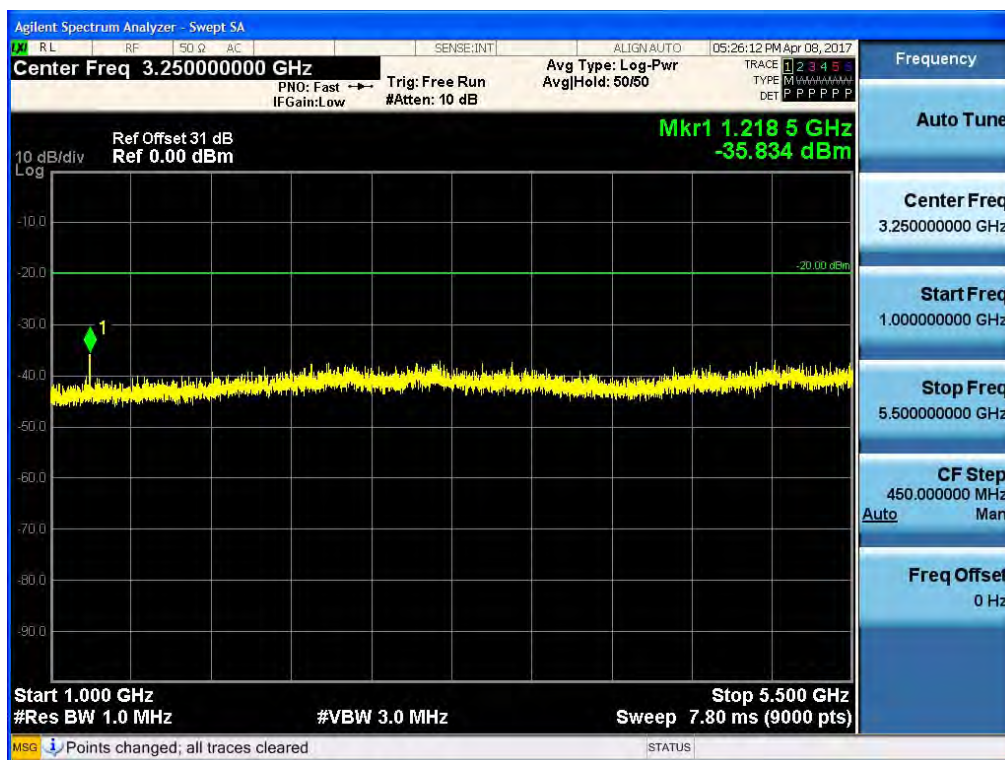
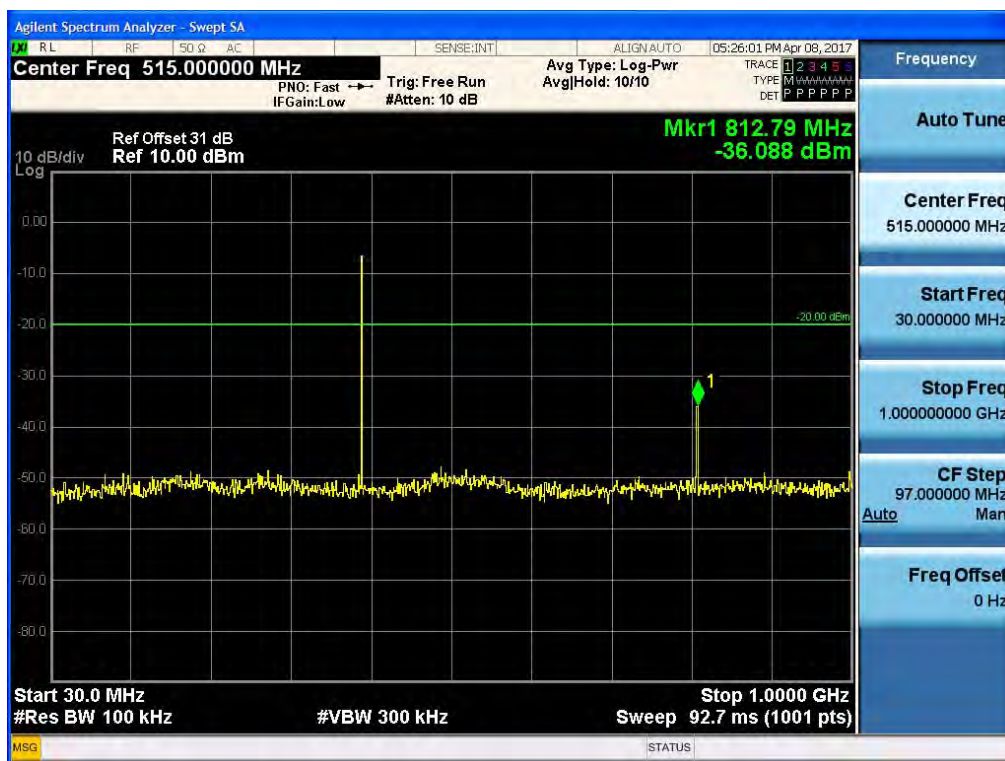
**4K00F2D**

| No. | Frequency<br>(MHz) | Band   | Setting   | Spurious<br>Frequency<br>(MHz) | Correct<br>Level<br>(dBm) | Emission<br>Level<br>(dBc) | Limit<br>(dBc) | Margin<br>(dB) |
|-----|--------------------|--------|-----------|--------------------------------|---------------------------|----------------------------|----------------|----------------|
| 1   | 406.15             | Low    | Low Power | 0.01                           | -35.020                   | -65.221                    | -50.201        | 15.020         |
|     |                    |        |           | 0.15                           | -38.274                   | -68.475                    | -50.201        | 18.274         |
|     |                    |        |           | 812.79                         | -37.576                   | -67.777                    | -50.201        | 17.576         |
|     |                    |        |           | 3159.24                        | -36.933                   | -67.134                    | -50.201        | 16.933         |
| 2   | 429.95             | Middle |           | 0.01                           | -37.126                   | -67.105                    | -49.979        | 17.126         |
|     |                    |        |           | 0.16                           | -38.551                   | -68.530                    | -49.979        | 18.551         |
|     |                    |        |           | 860.32                         | -44.149                   | -74.128                    | -49.979        | 24.149         |
|     |                    |        |           | 2749.19                        | -37.357                   | -67.336                    | -49.979        | 17.357         |
| 3   | 450.05             | High   |           | 0.01                           | -36.636                   | -66.501                    | -49.865        | 16.636         |
|     |                    |        |           | 0.16                           | -37.889                   | -67.754                    | -49.865        | 17.889         |
|     |                    |        |           | 900.09                         | -40.936                   | -70.801                    | -49.865        | 20.936         |
|     |                    |        |           | 3668.30                        | -37.081                   | -66.946                    | -49.865        | 17.081         |
| 4   | 469.95             | Low    | Low Power | 0.01                           | -37.227                   | -66.882                    | -49.655        | 17.227         |
|     |                    |        |           | 0.17                           | -39.500                   | -69.155                    | -49.655        | 19.500         |
|     |                    |        |           | 939.86                         | -42.313                   | -71.968                    | -49.655        | 22.313         |
|     |                    |        |           | 3199.24                        | -36.186                   | -65.841                    | -49.655        | 16.186         |
| 5   | 491.05             | Middle |           | 0.01                           | -37.478                   | -67.443                    | -49.965        | 17.478         |
|     |                    |        |           | 0.16                           | -37.773                   | -67.738                    | -49.965        | 17.773         |
|     |                    |        |           | 982.54                         | -42.710                   | -72.675                    | -49.965        | 22.710         |
|     |                    |        |           | 5142.46                        | -37.257                   | -67.222                    | -49.965        | 17.257         |
| 6   | 511.95             | High   |           | 0.01                           | -34.461                   | -64.283                    | -49.822        | 14.461         |
|     |                    |        |           | 0.20                           | -40.589                   | -70.411                    | -49.822        | 20.589         |
|     |                    |        |           | 108.57                         | -43.767                   | -73.589                    | -49.822        | 23.767         |
|     |                    |        |           | 5113.96                        | -36.967                   | -66.789                    | -49.822        | 16.967         |

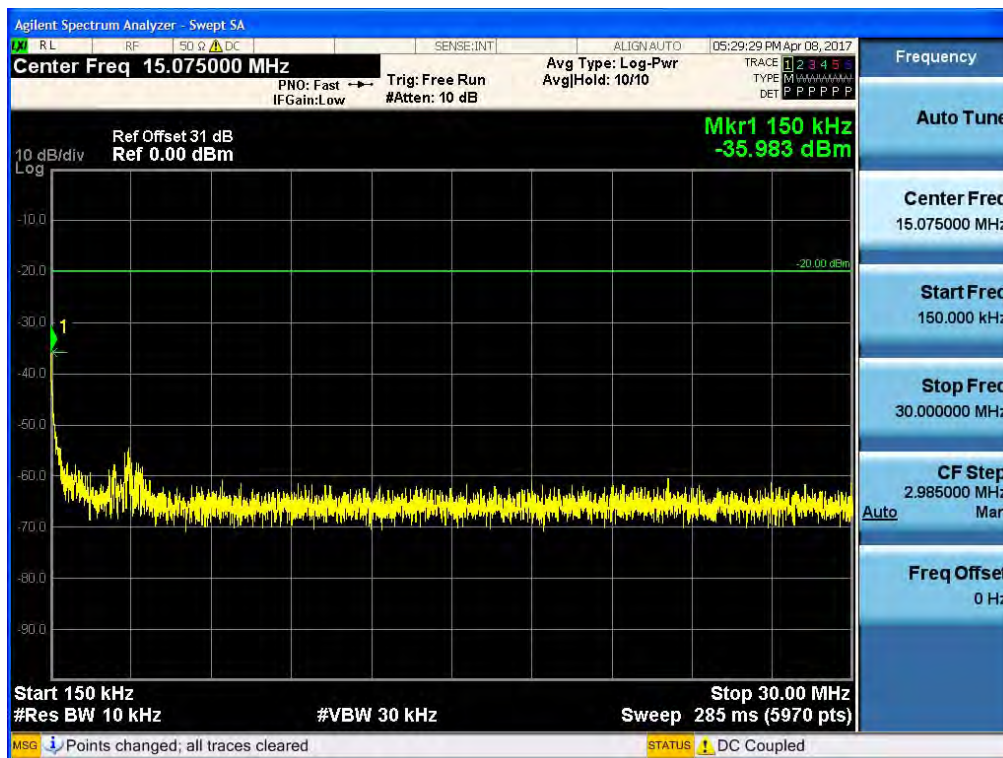
■ Plots of Unwanted Emissions : Conducted Spurious Emission FCC

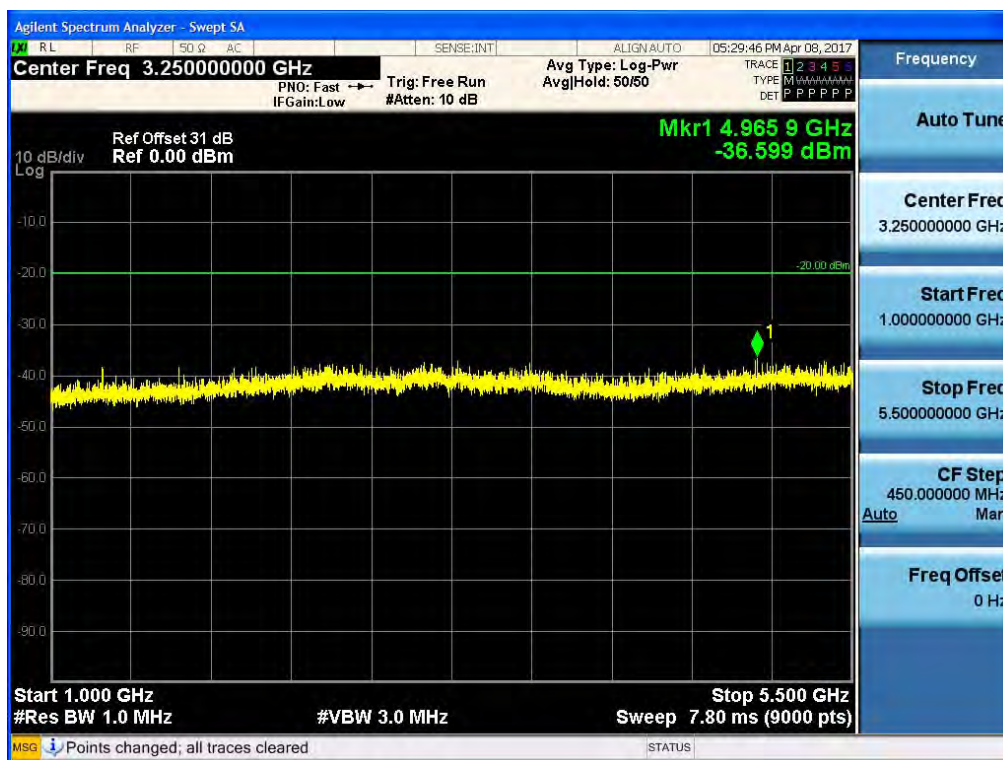
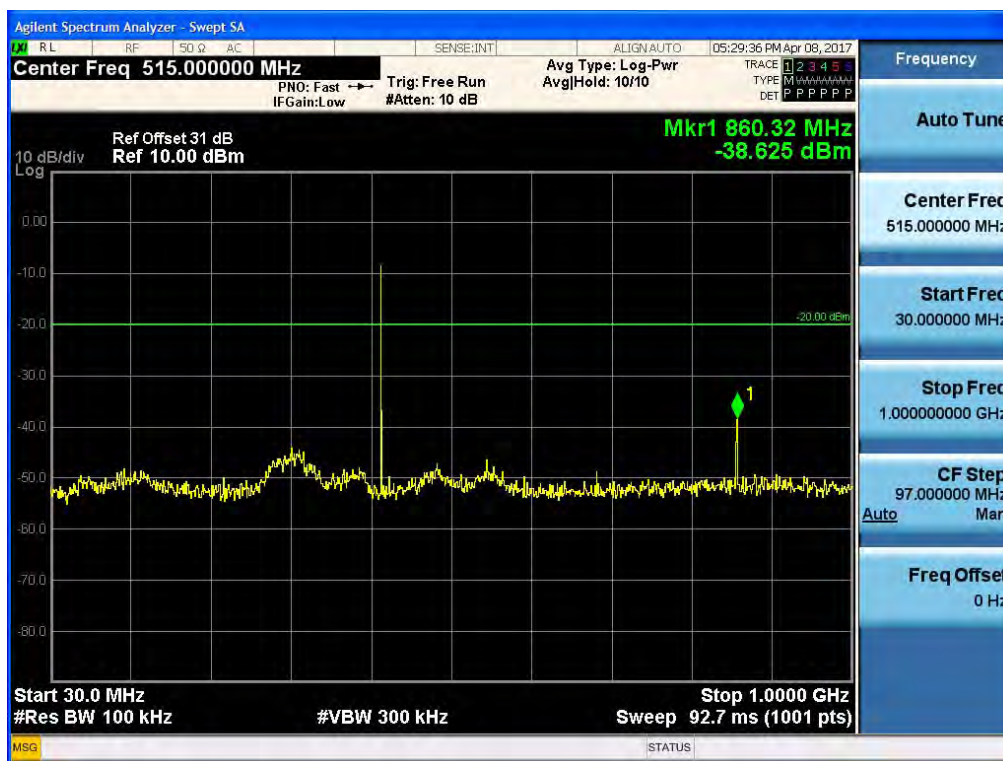
(11K0F3E \_ 406.15 MHz)\_High



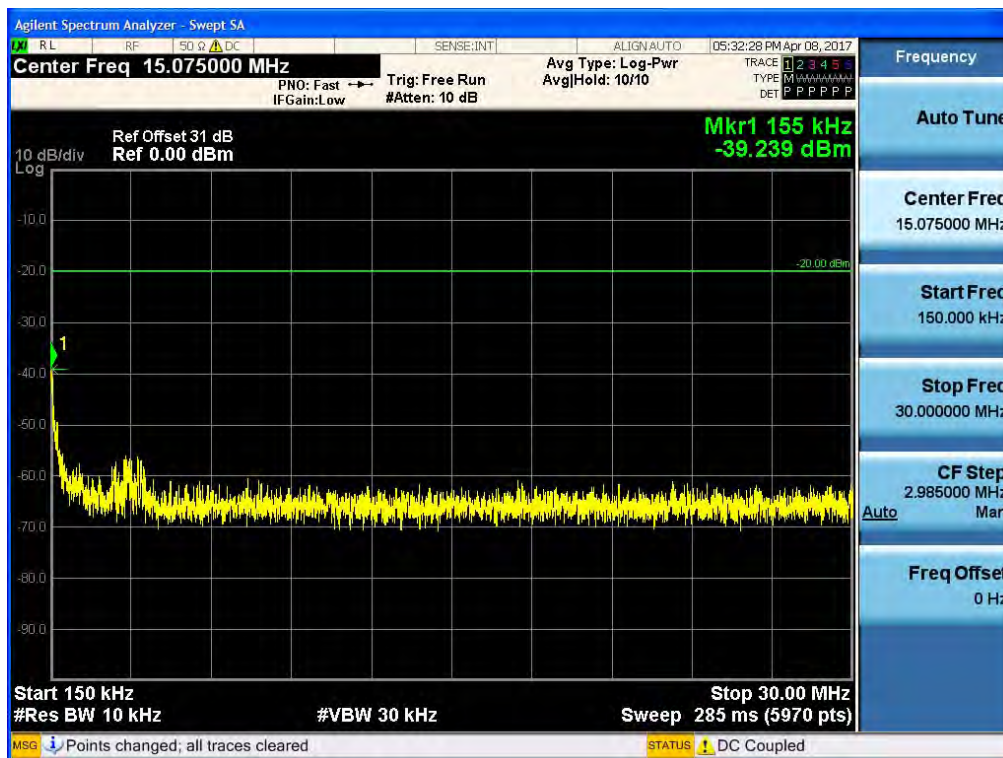


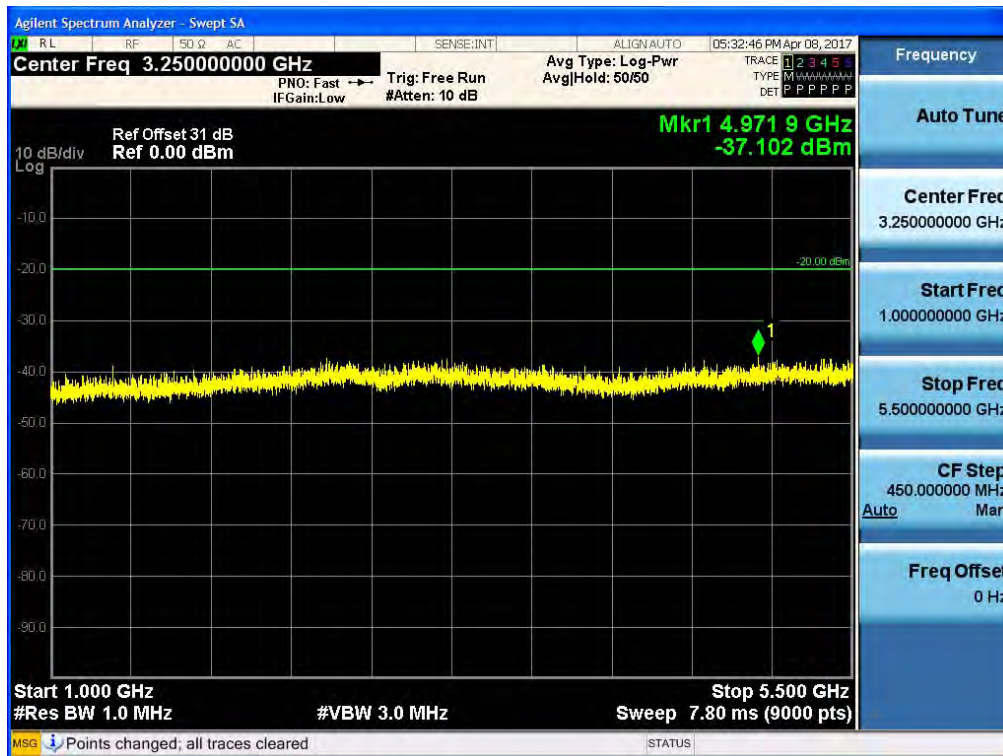
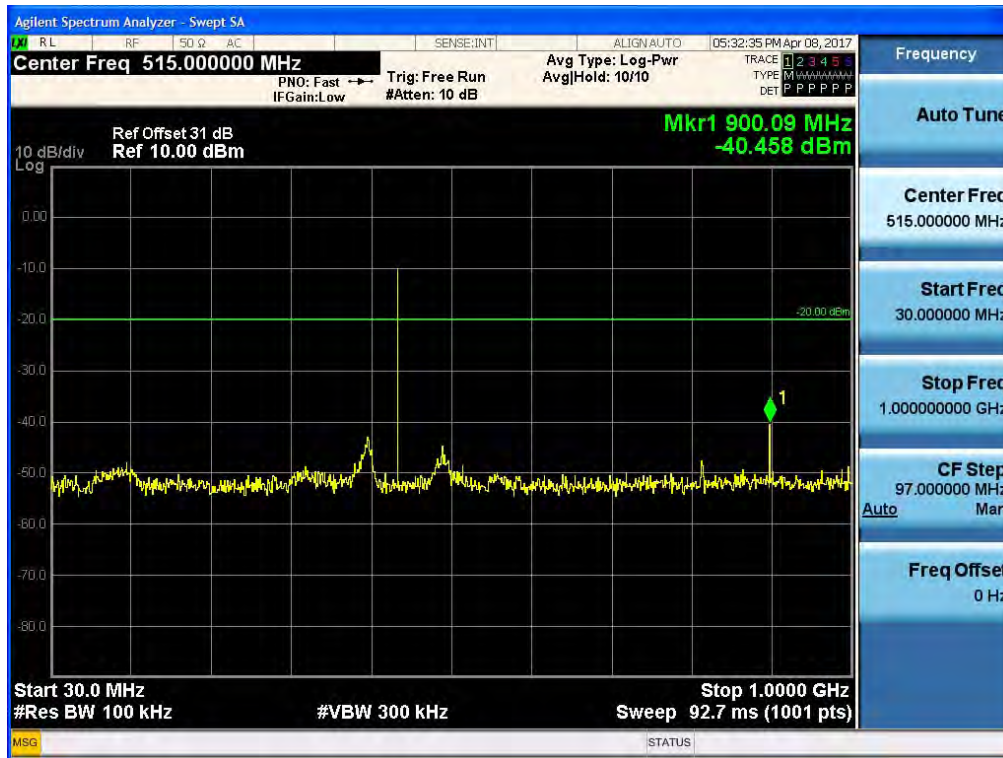
(11K0F3E \_ 429.95 MHz)\_High



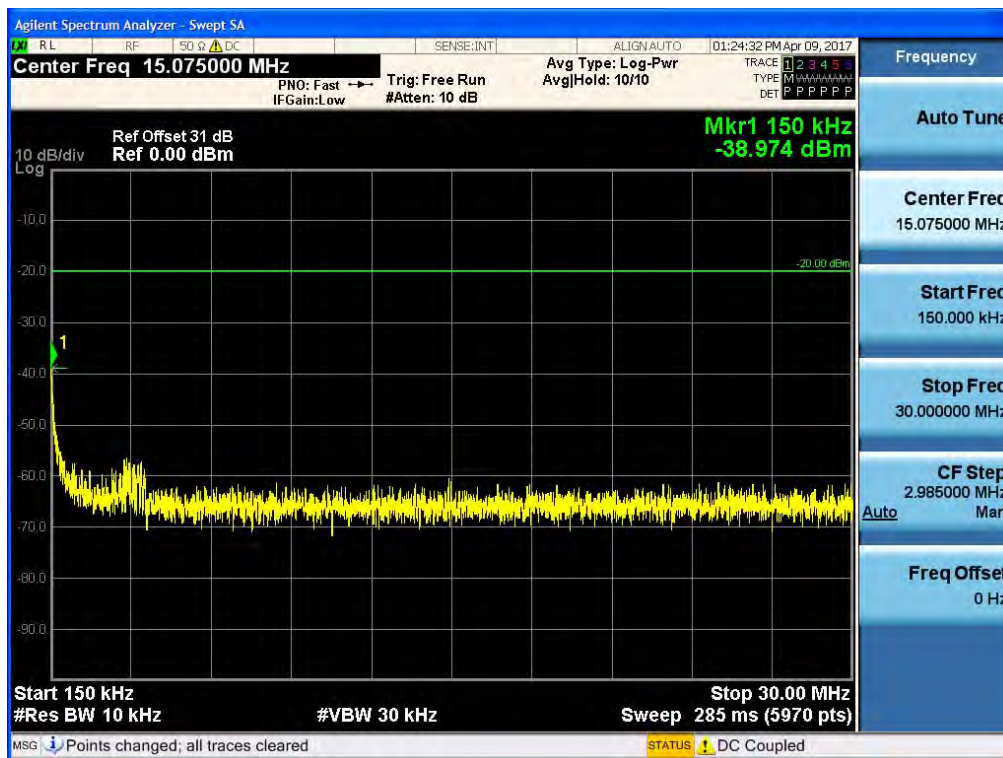


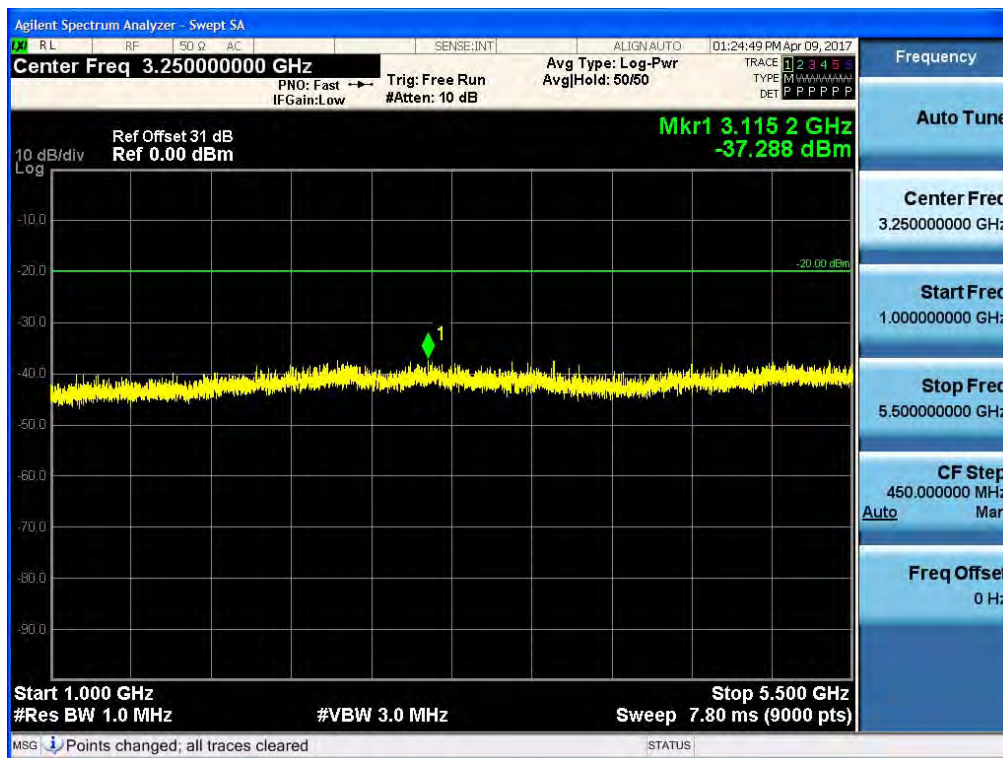
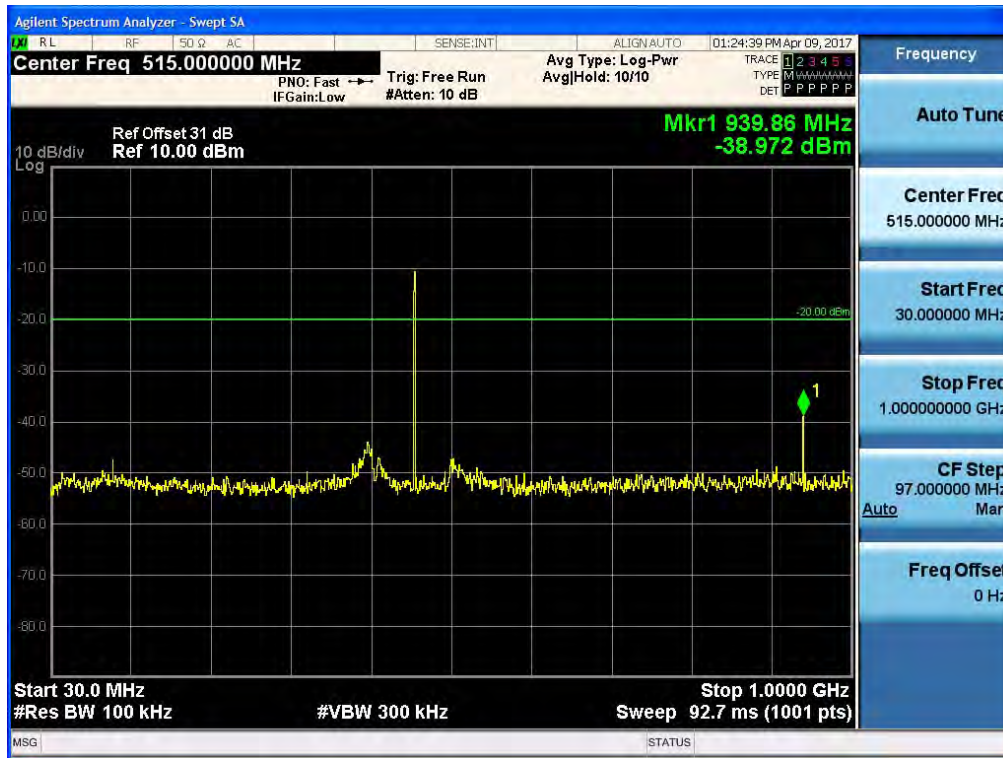
(11K0F3E \_ 450.05 MHz)\_High



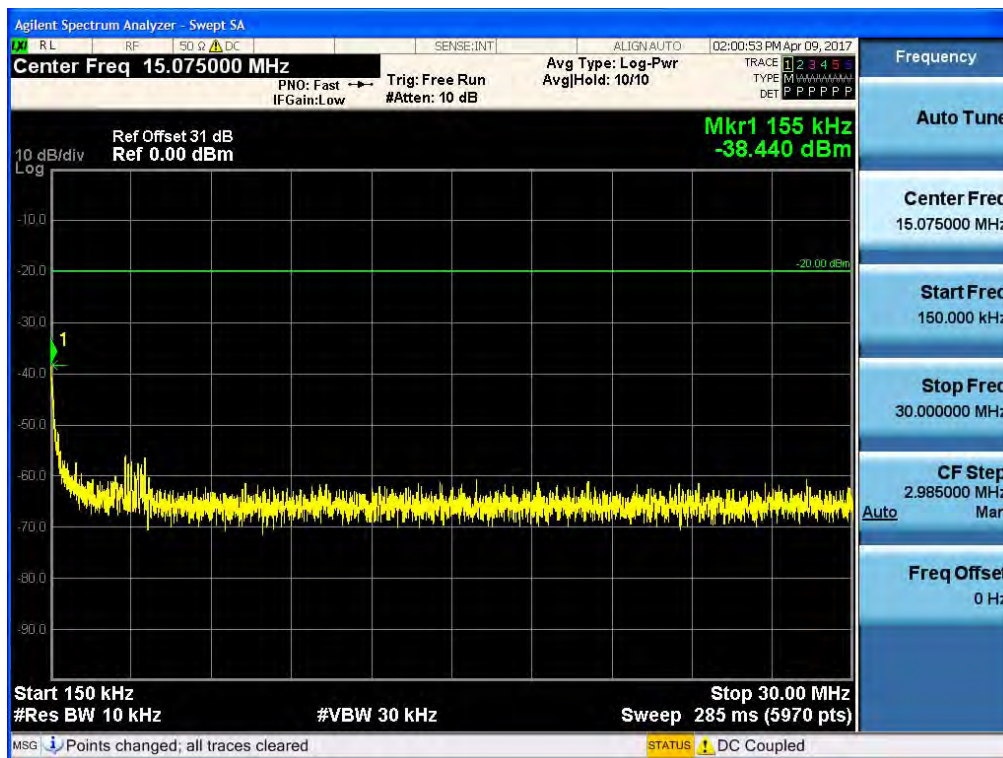


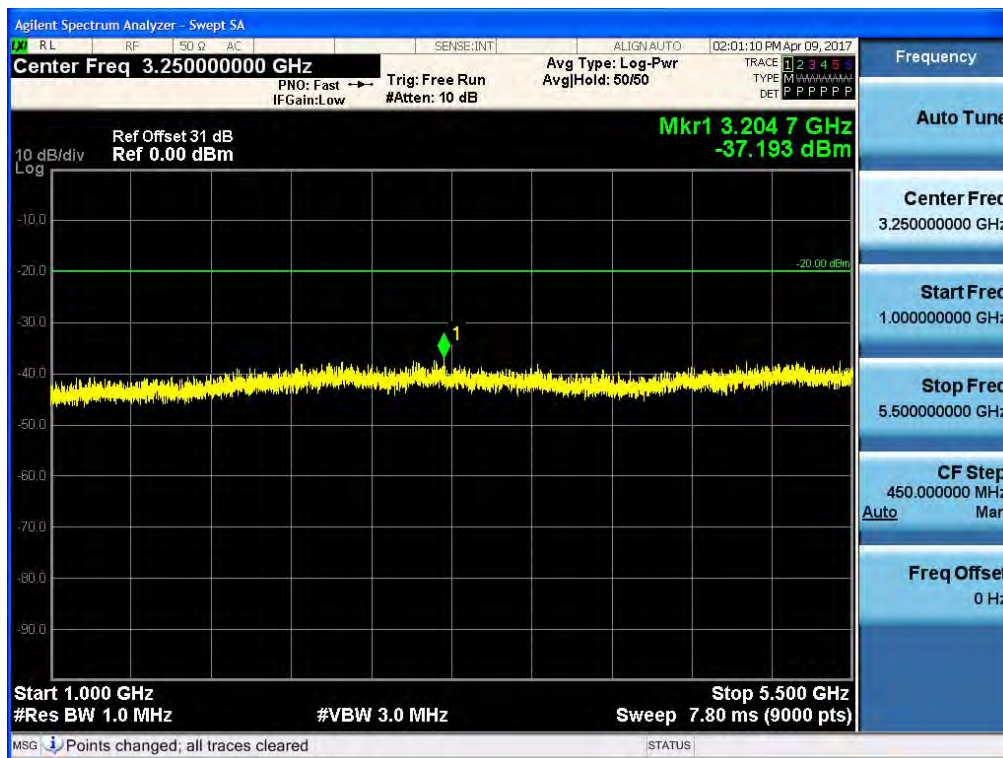
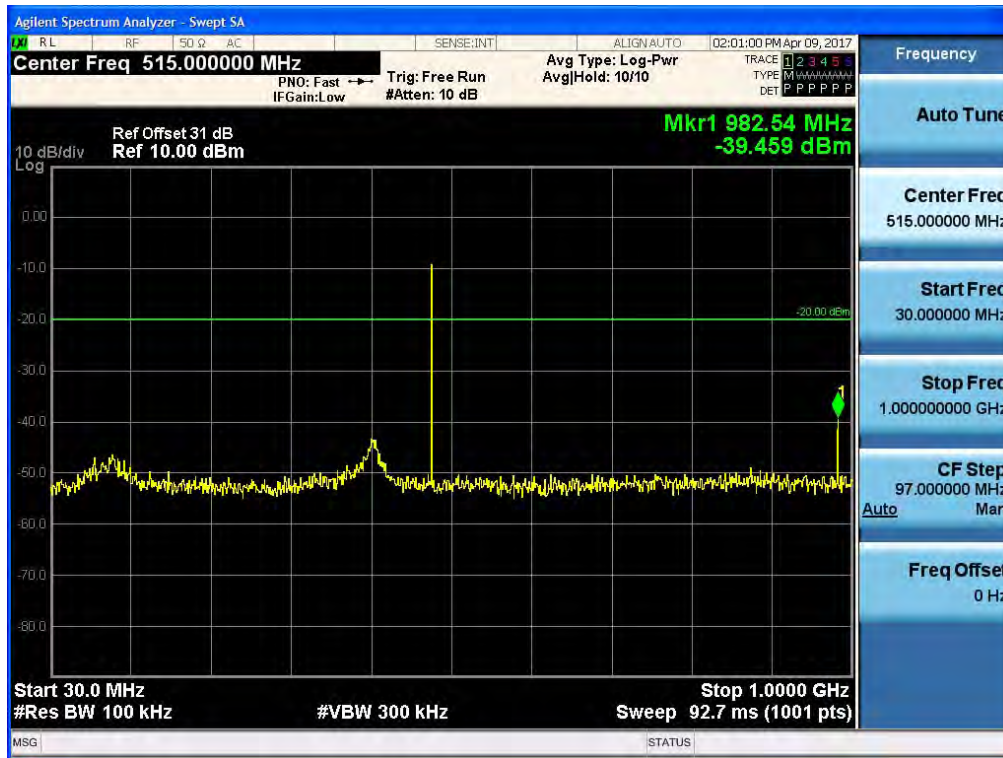
(11K0F3E \_ 469.95 MHz)\_High



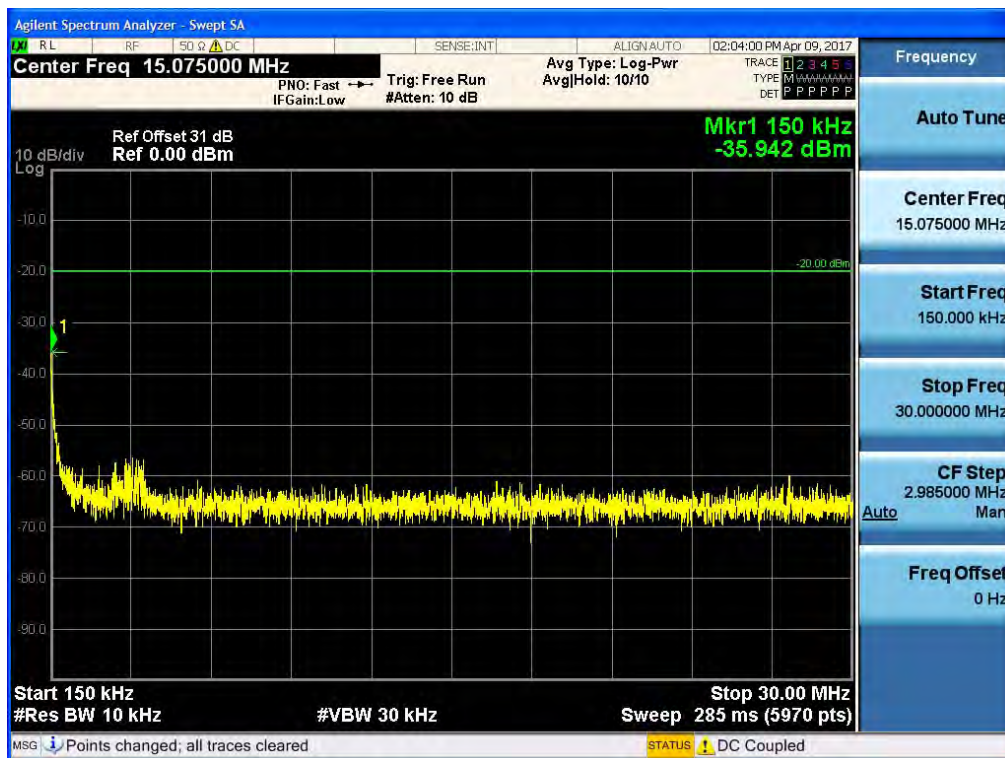


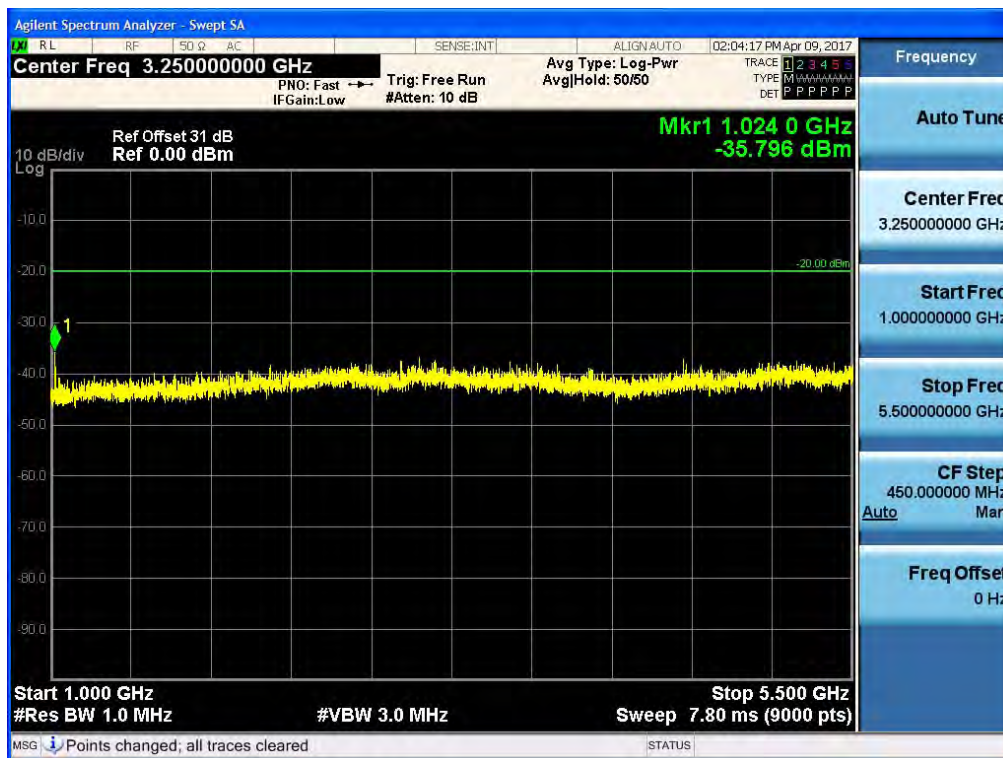
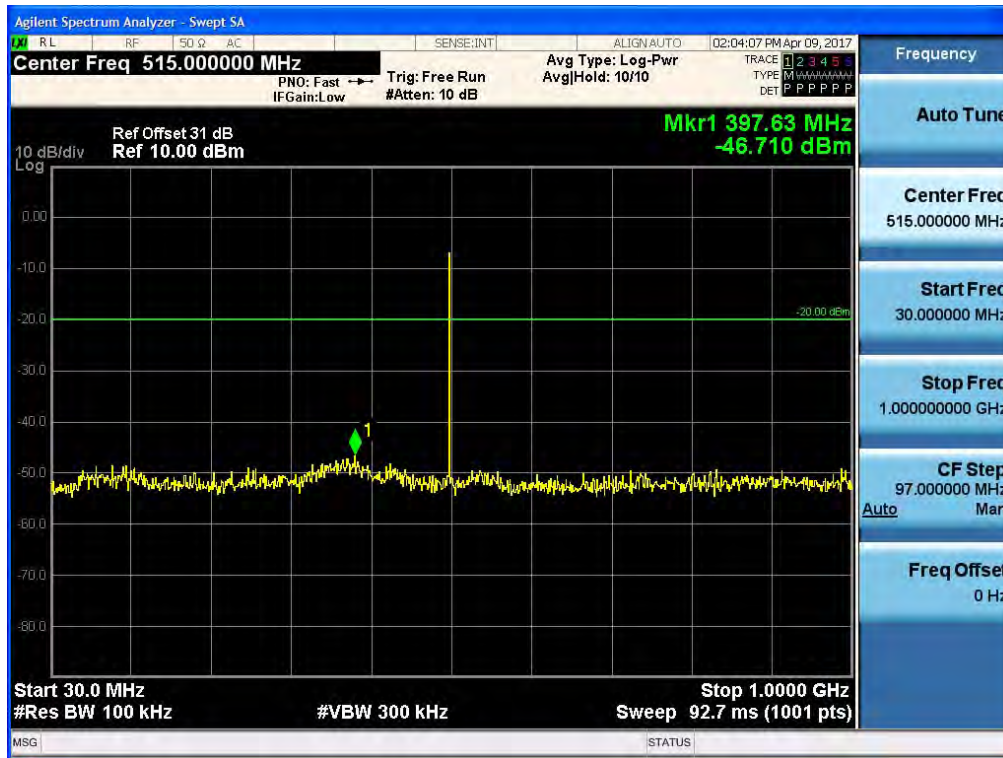
(11K0F3E \_ 491.05 MHz)\_High



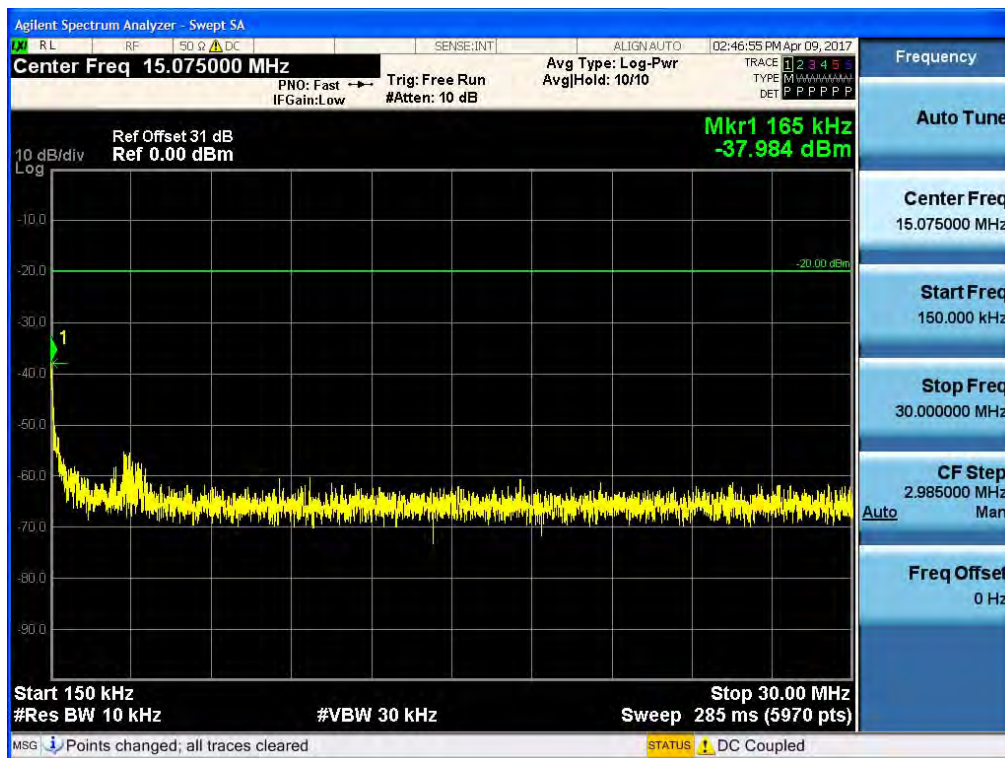


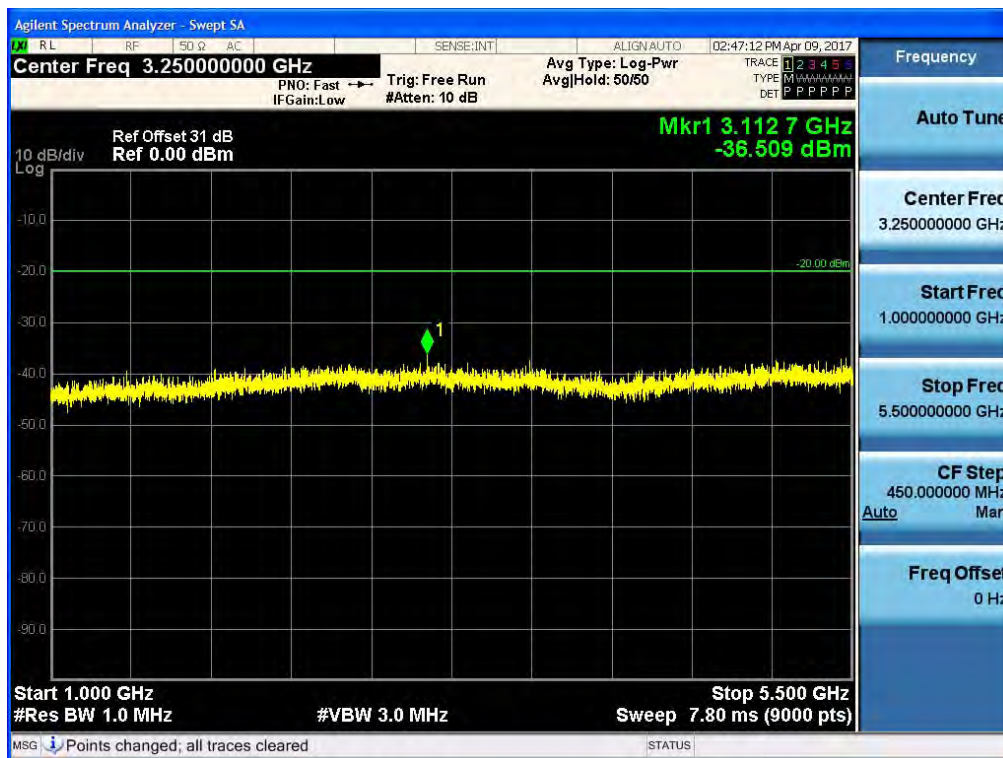
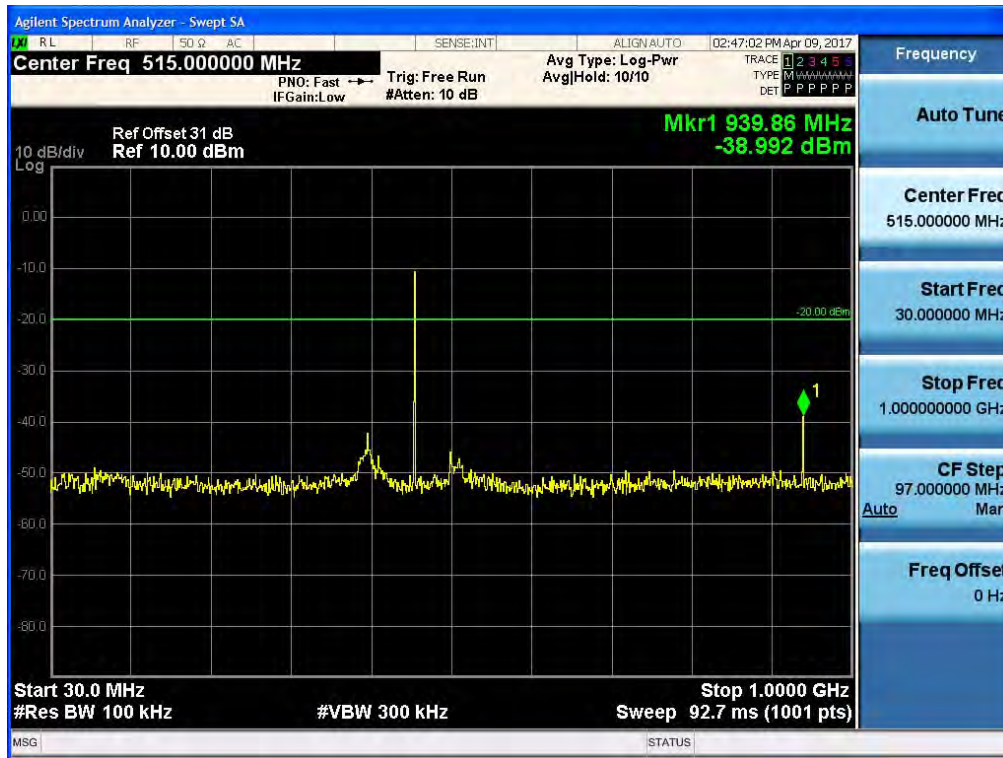
(11K0F3E \_ 511.95 MHz)\_High



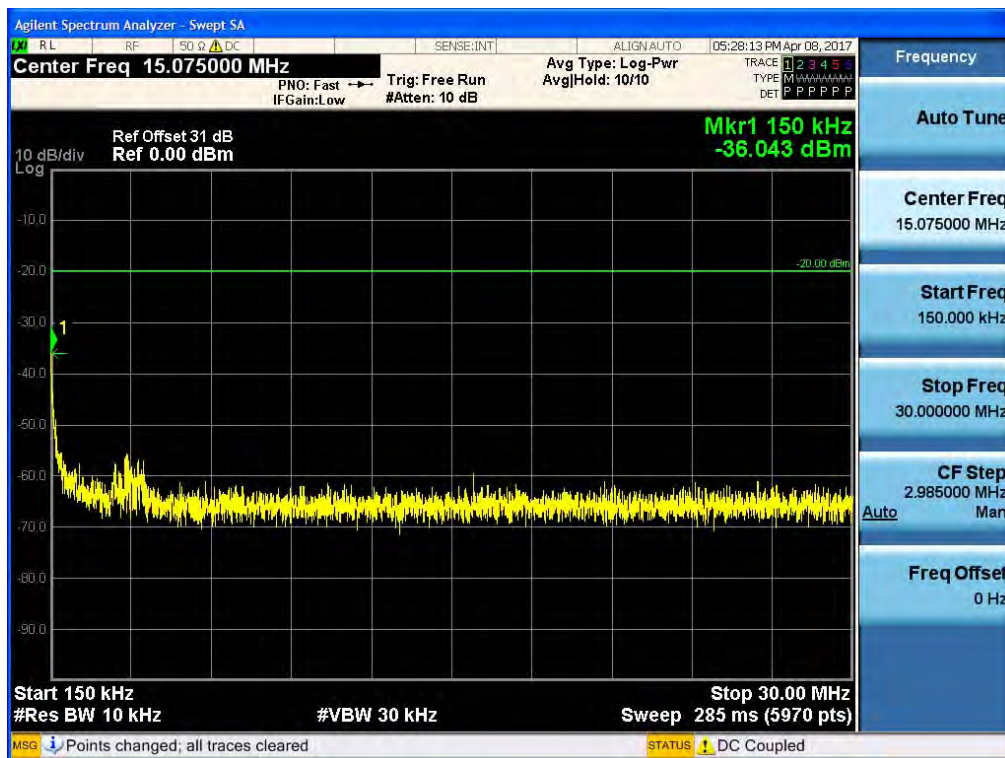


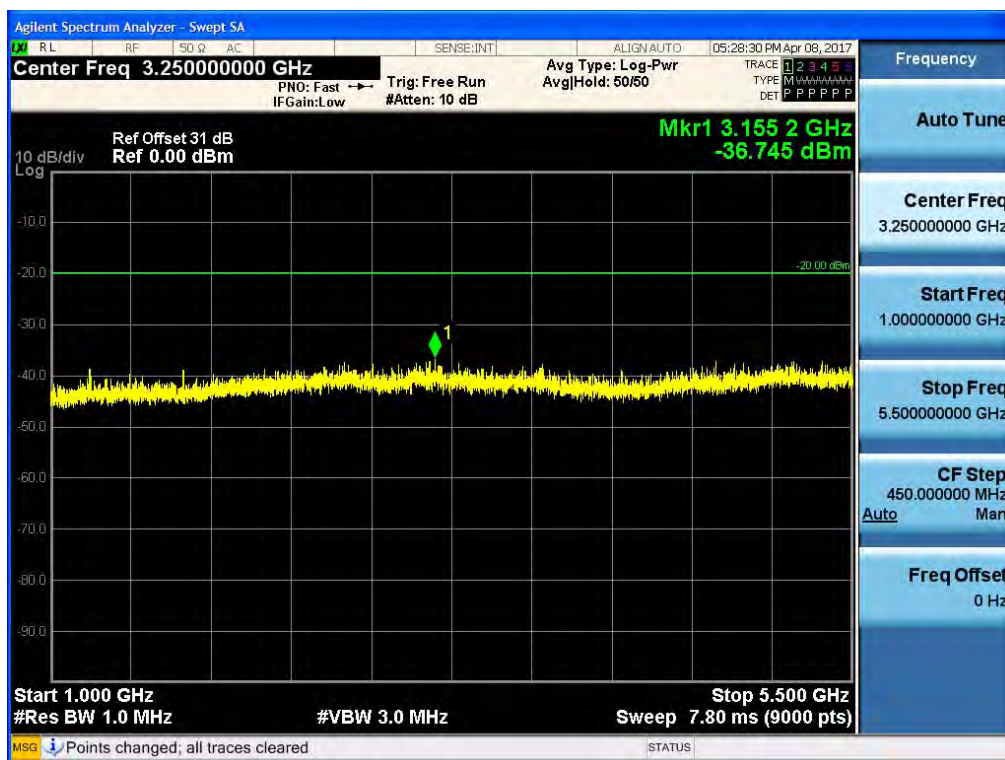
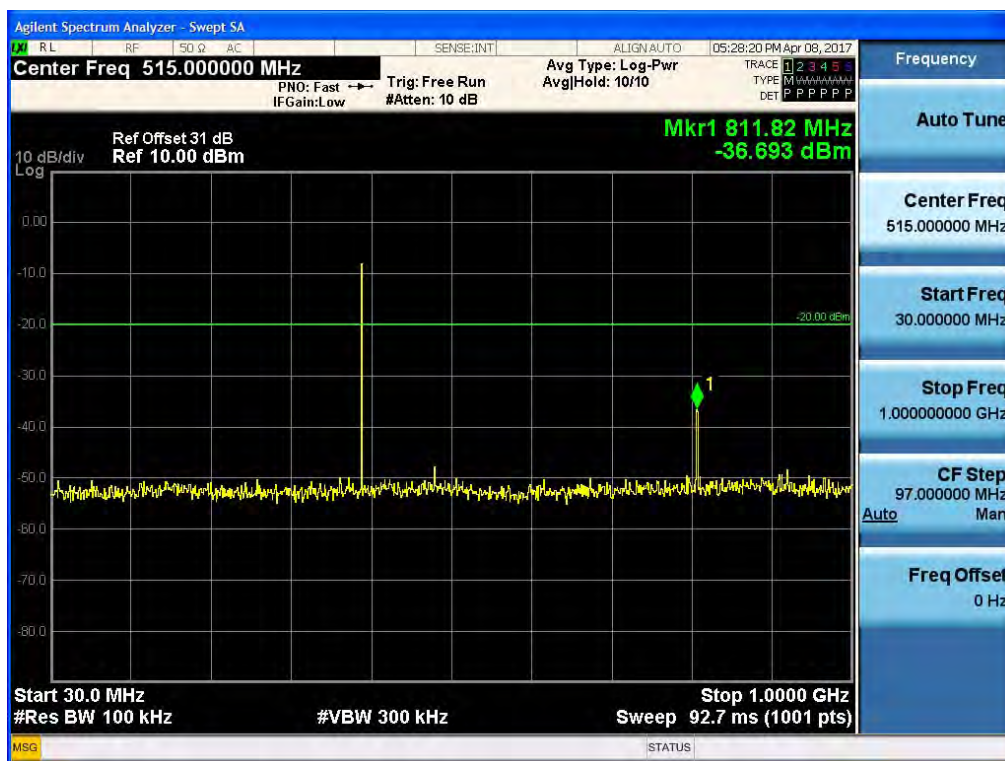
(11K0F3E \_ 470.05 MHz)\_High



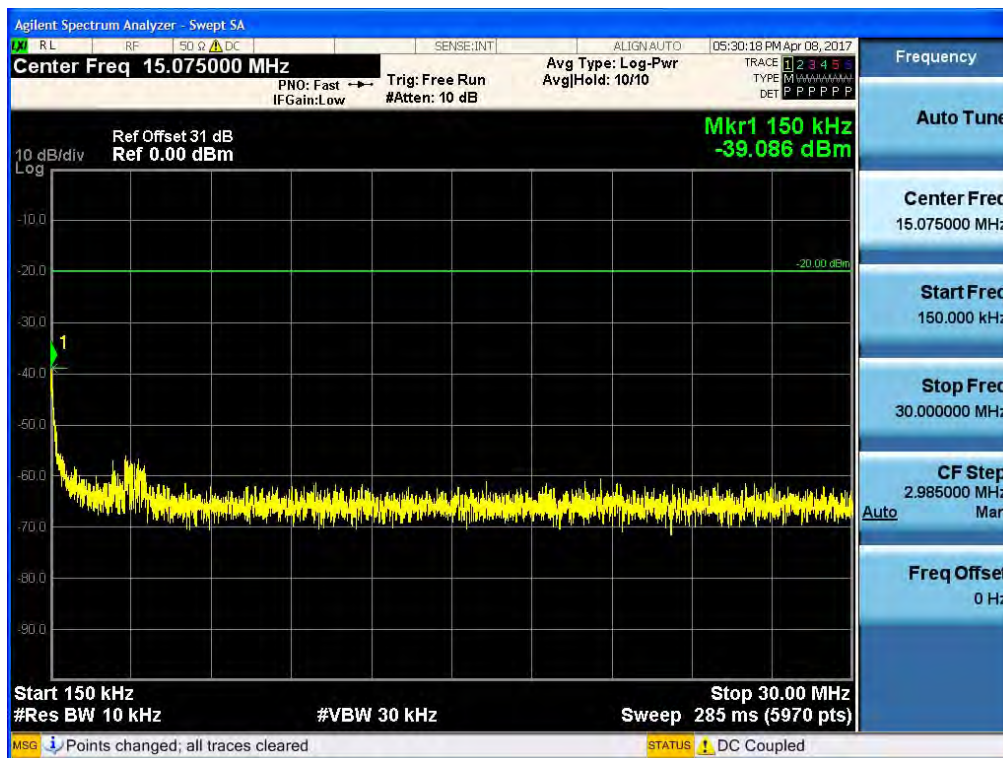


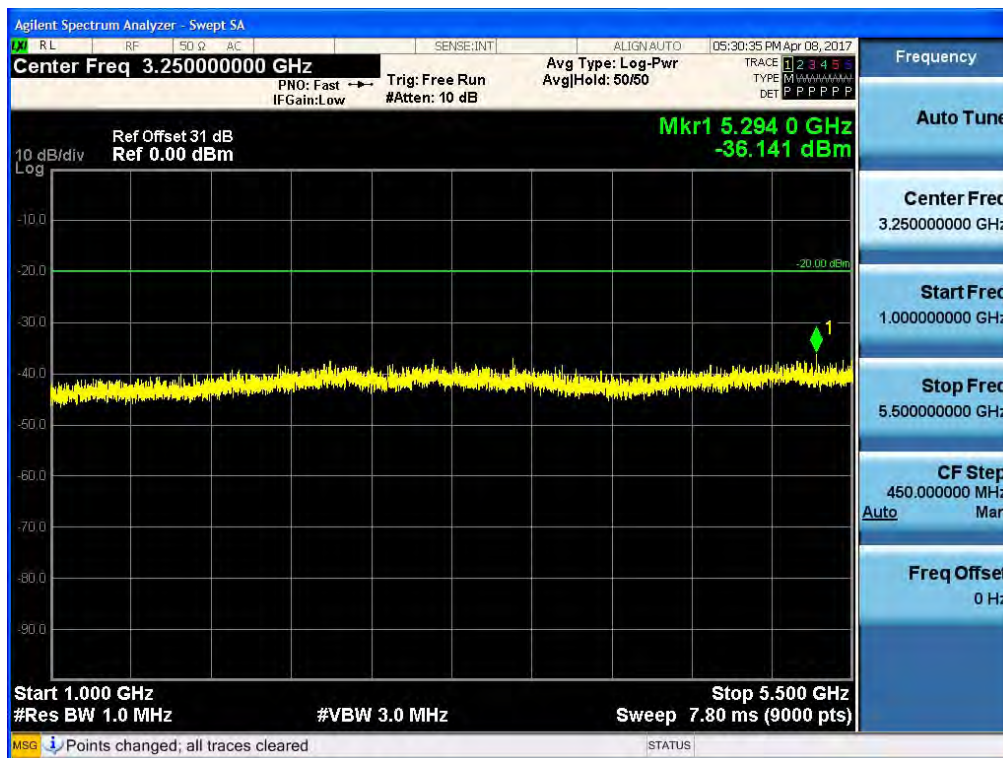
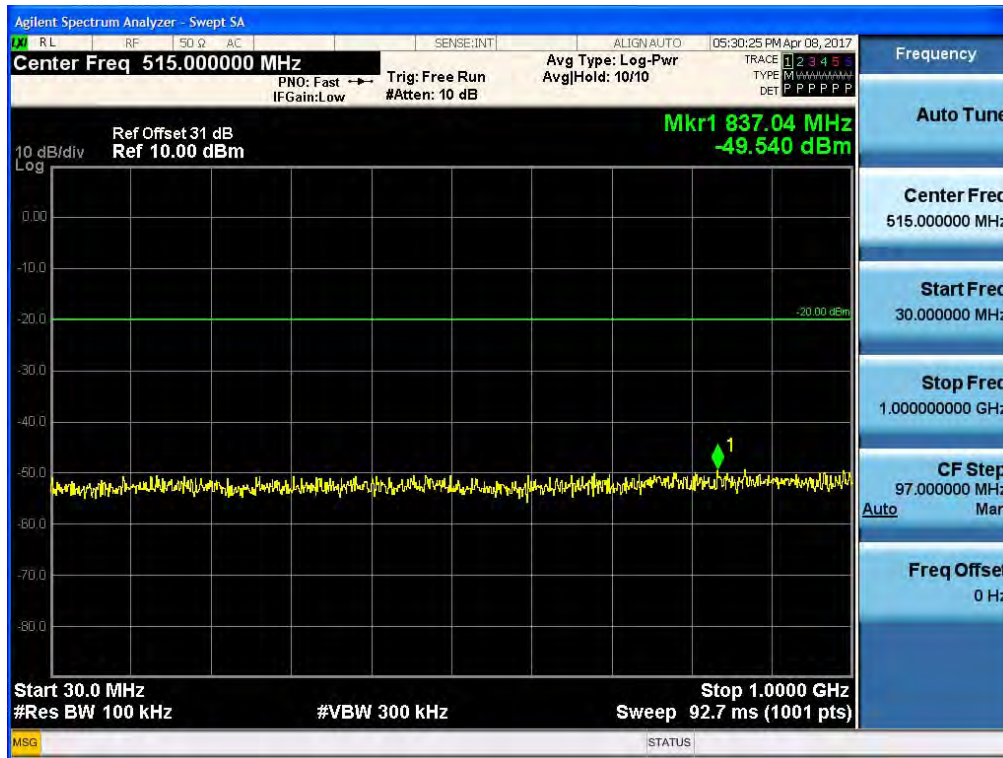
(11K0F3E \_ 406.15 MHz)\_Low



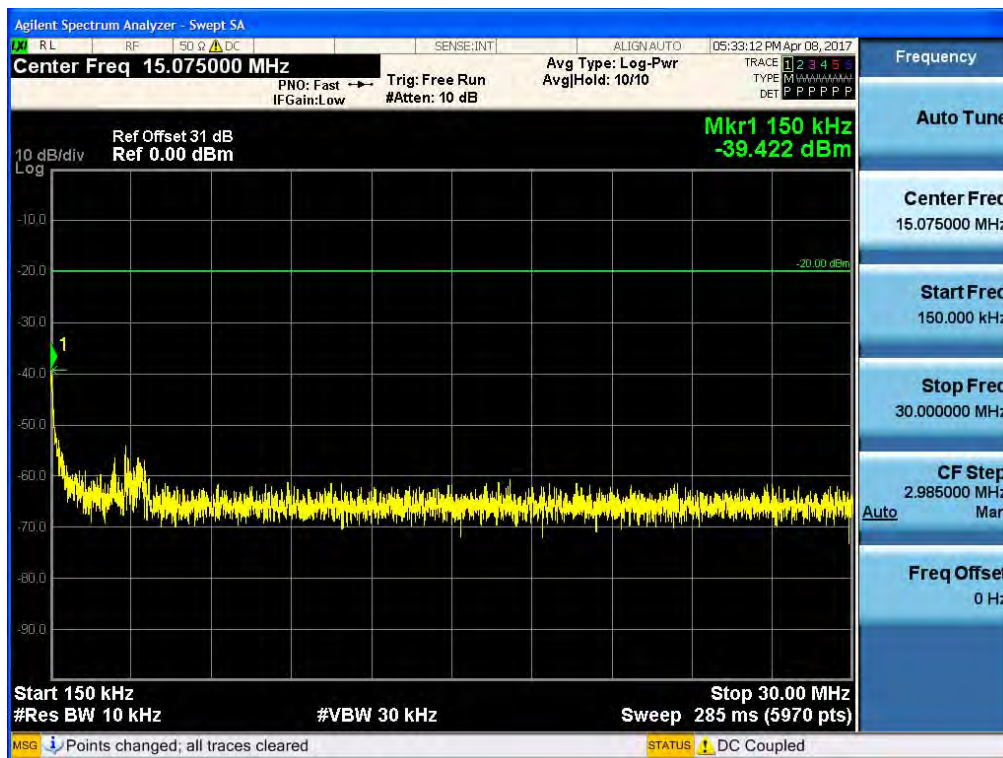
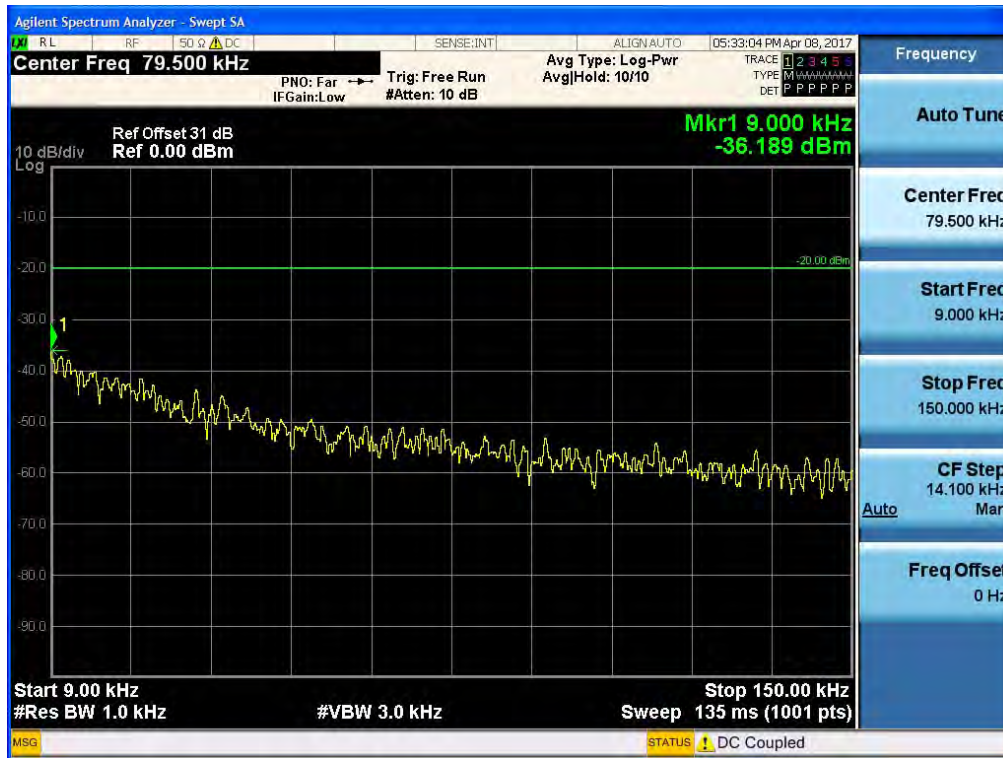


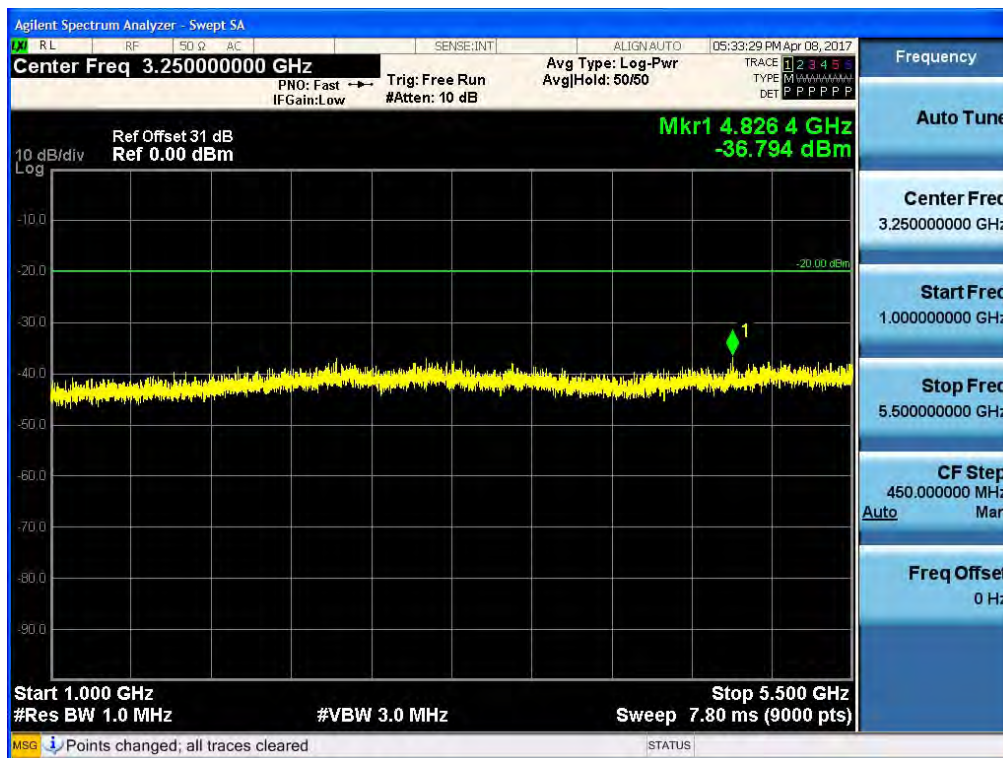
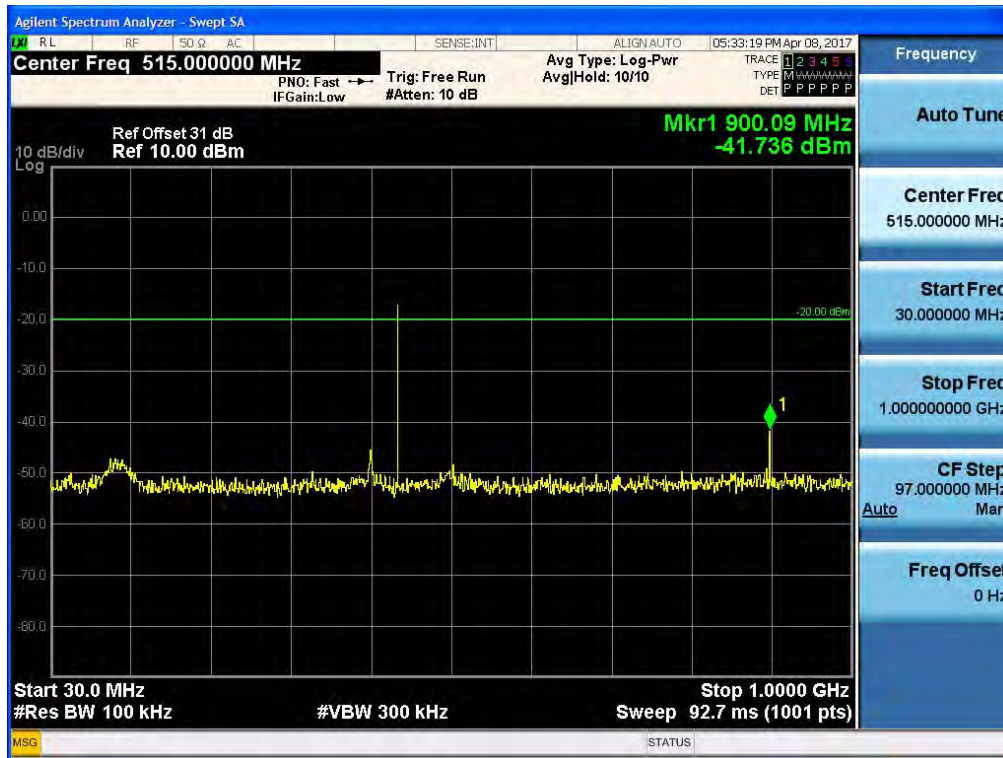
(11K0F3E \_ 429.95 MHz)\_Low



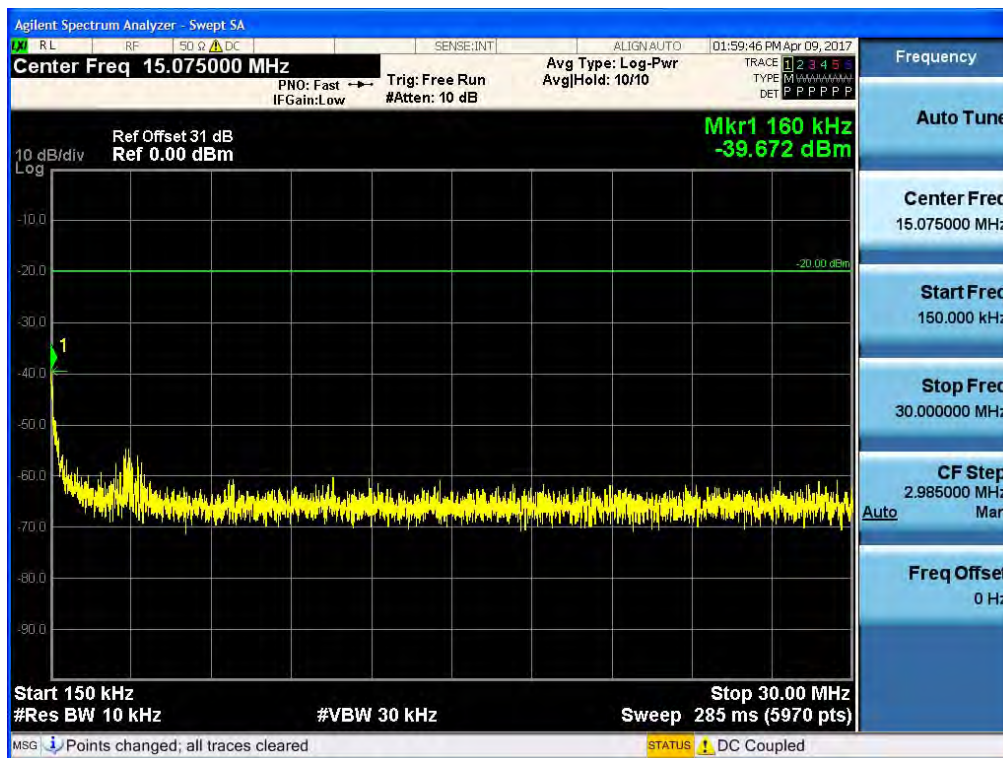


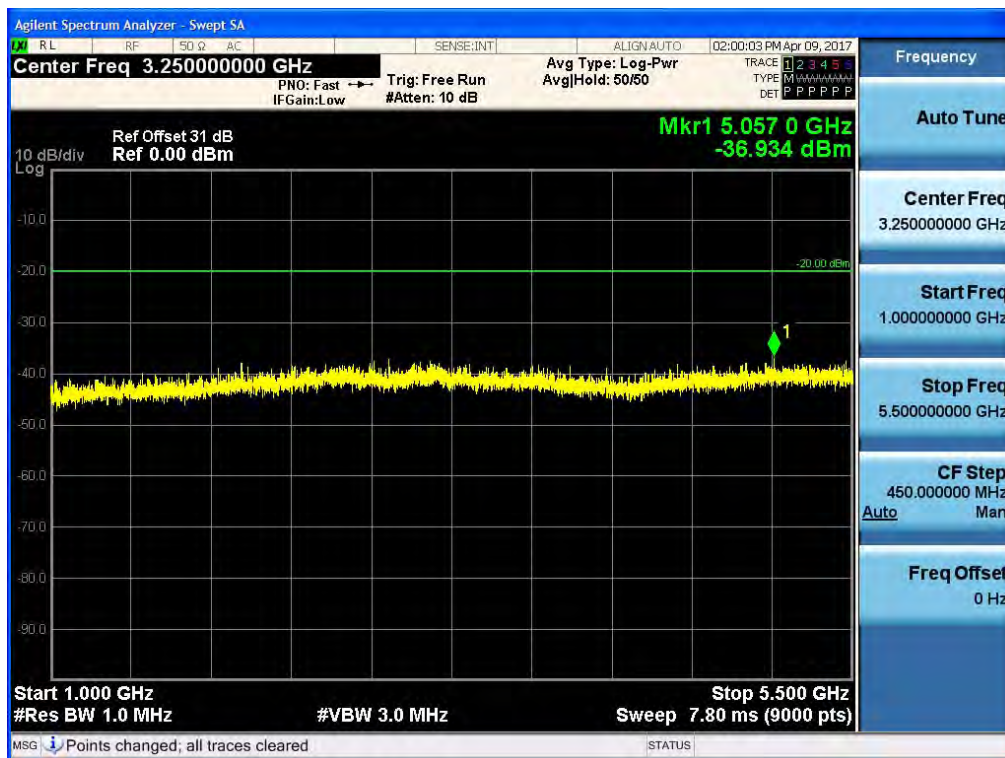
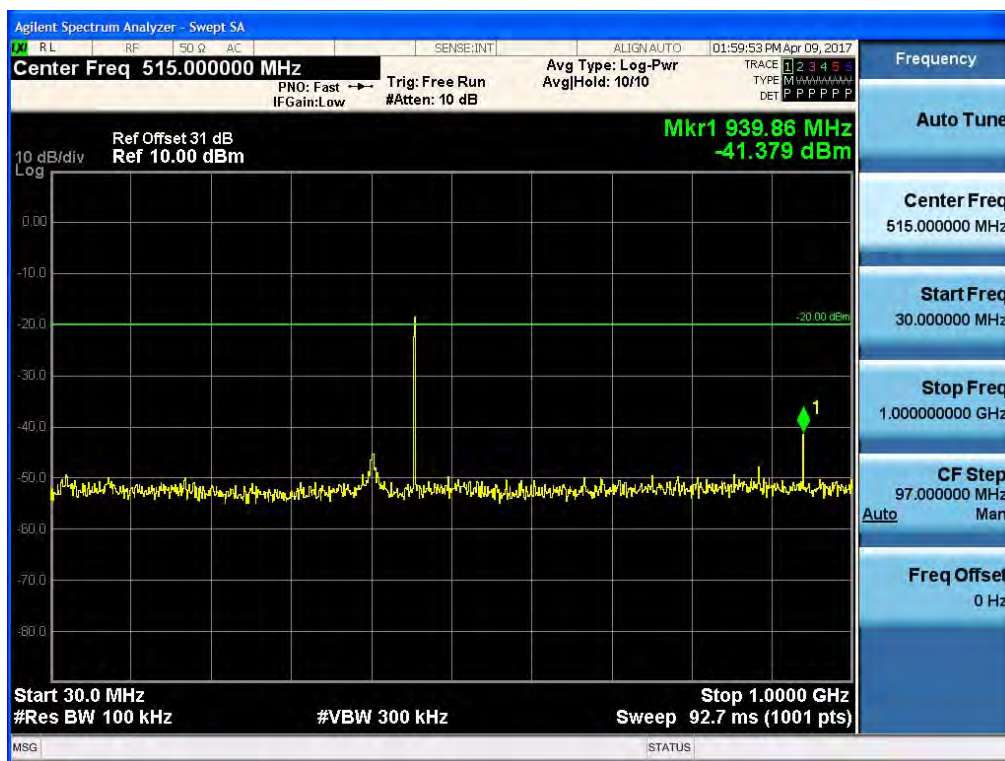
(11K0F3E \_ 450.05 MHz)\_Low



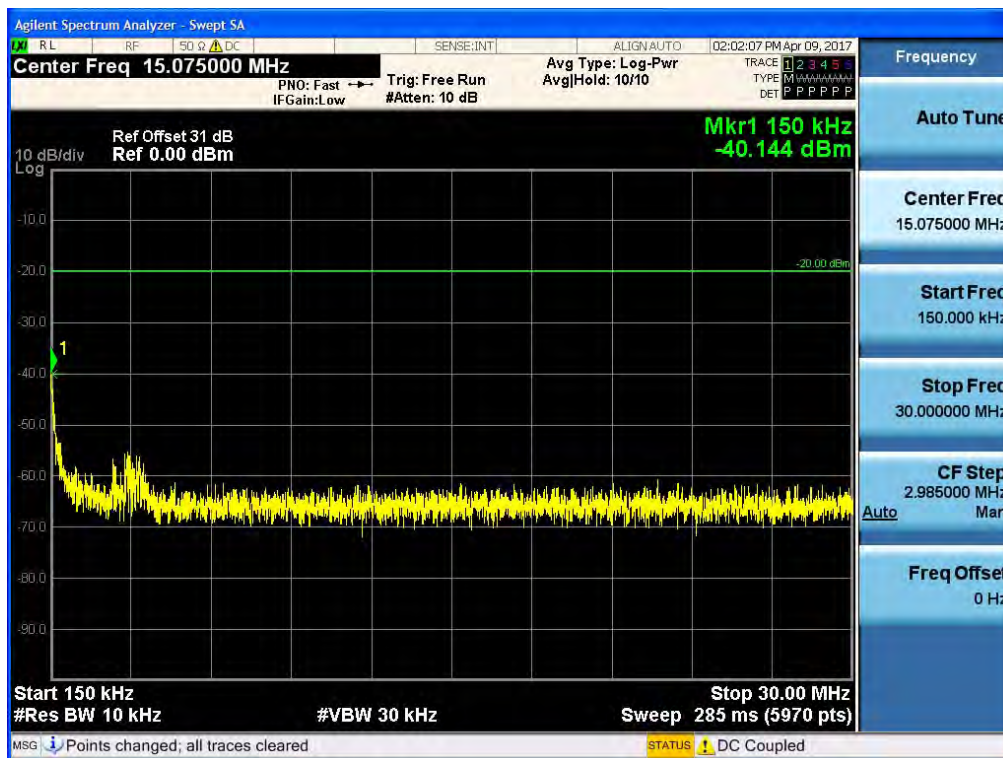
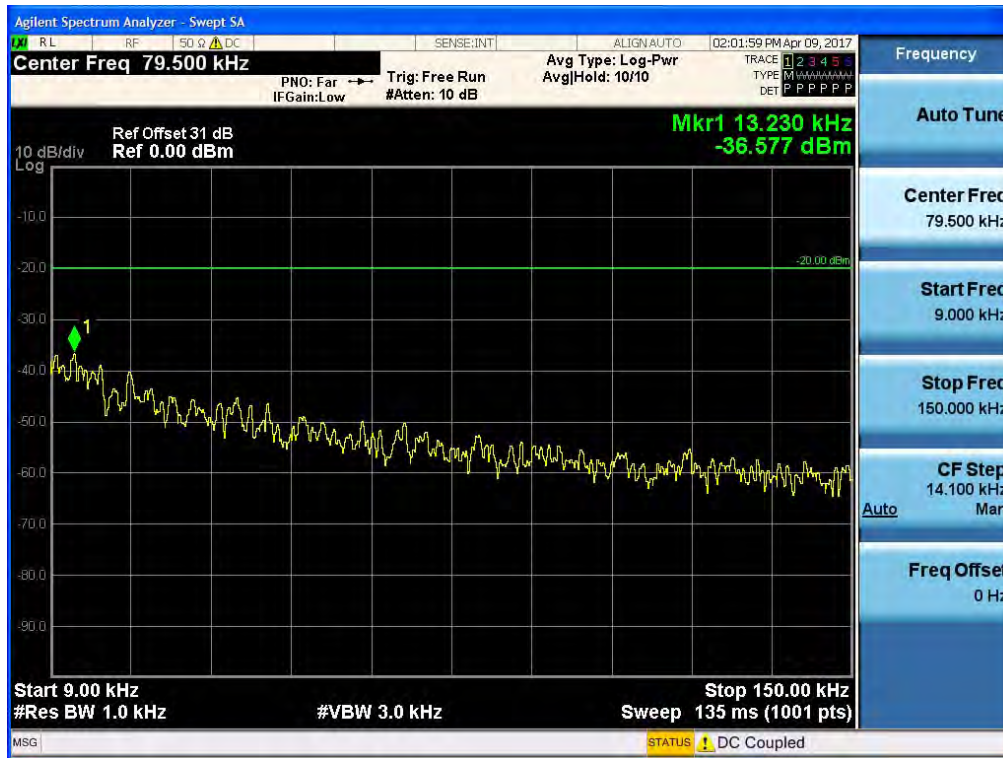


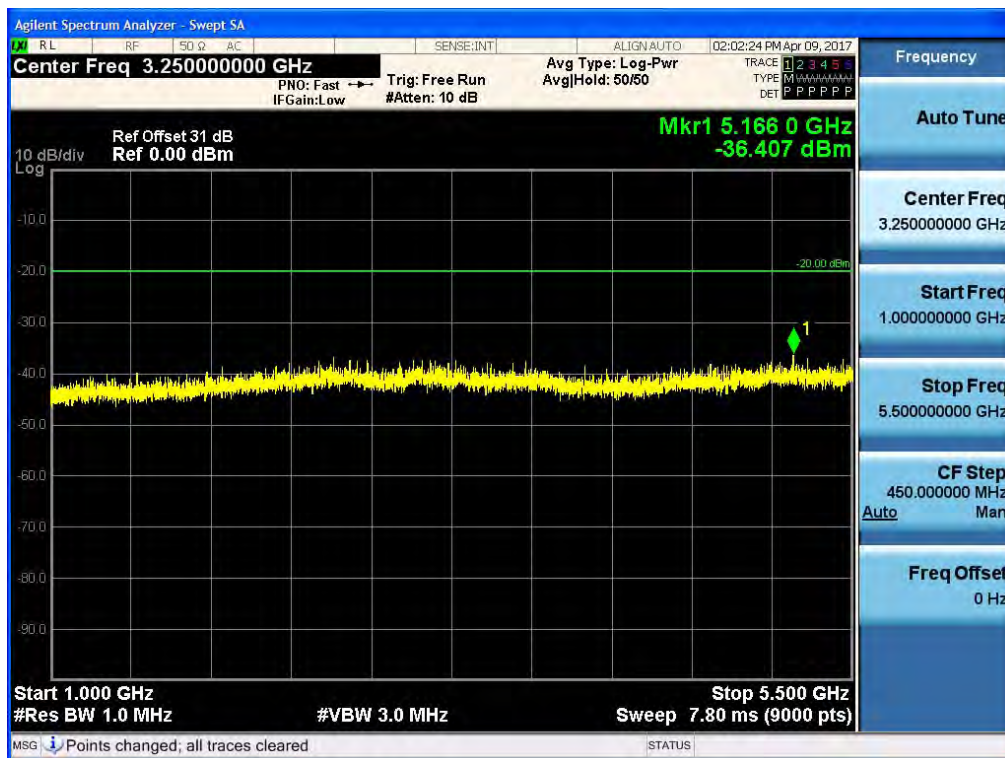
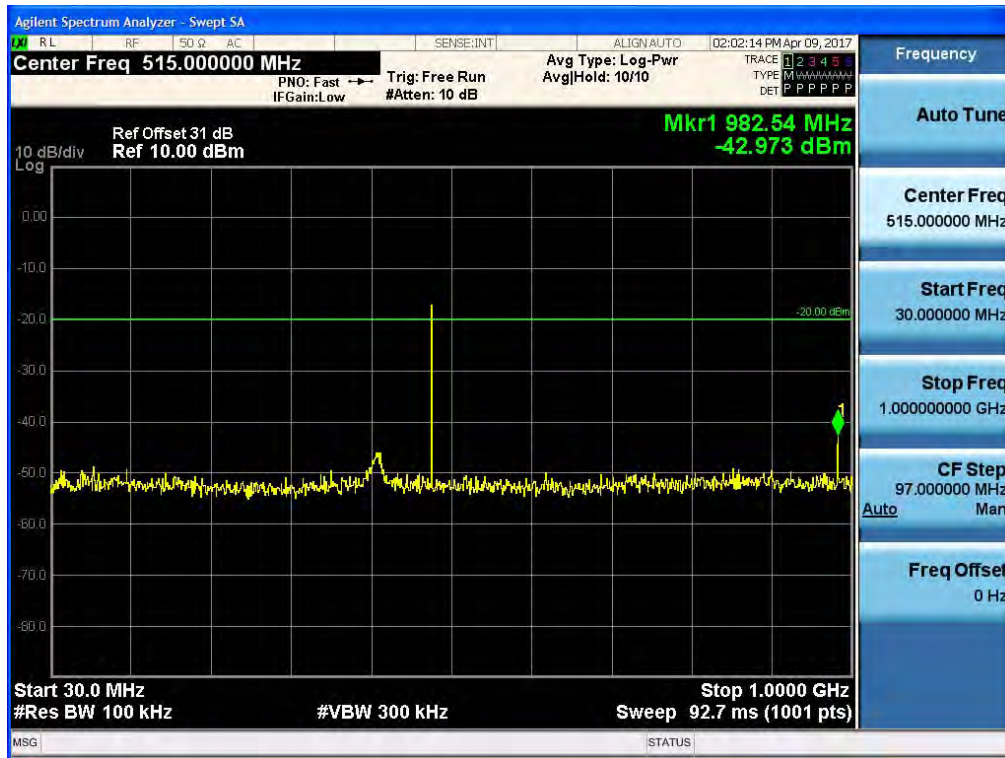
(11K0F3E \_ 469.95 MHz)\_Low



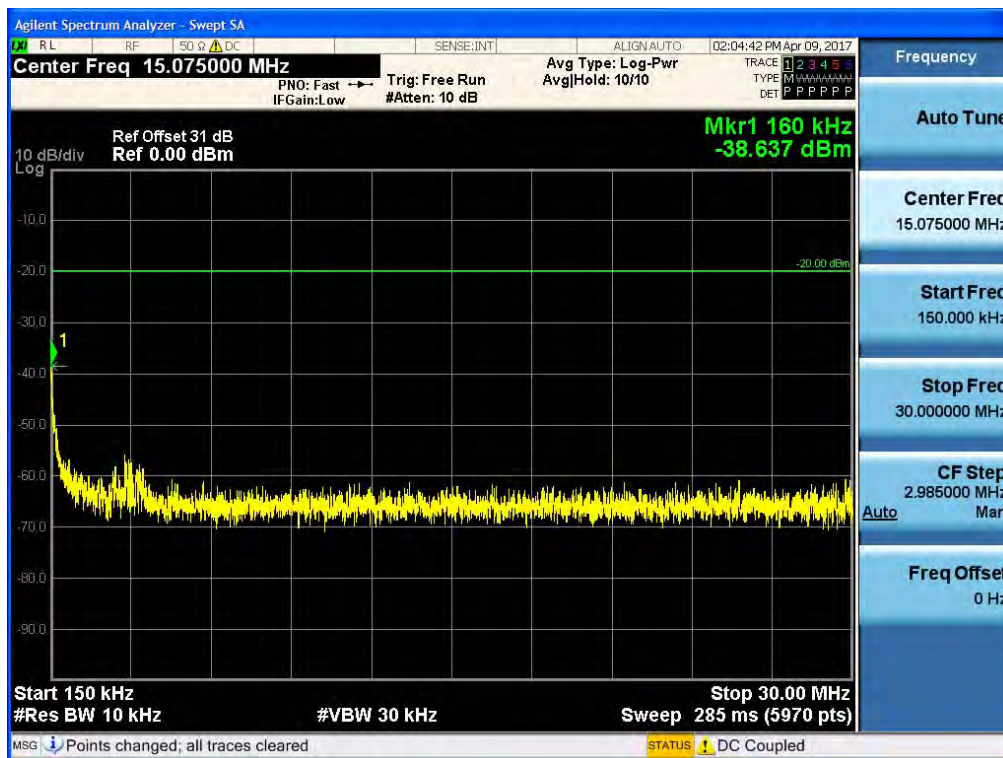
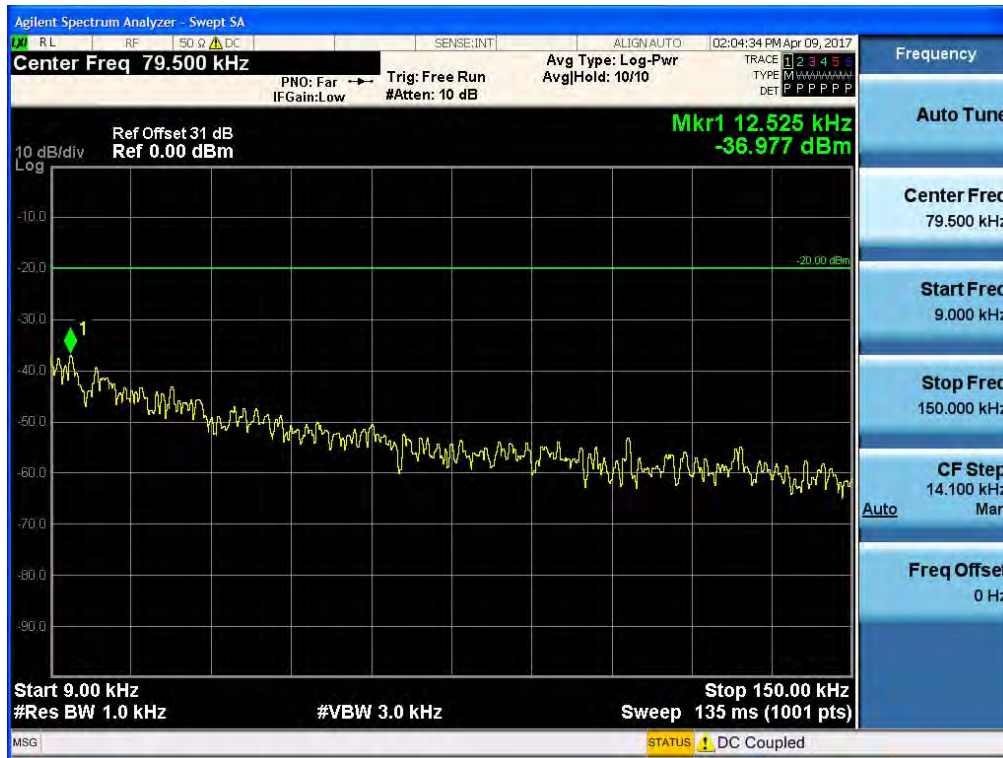


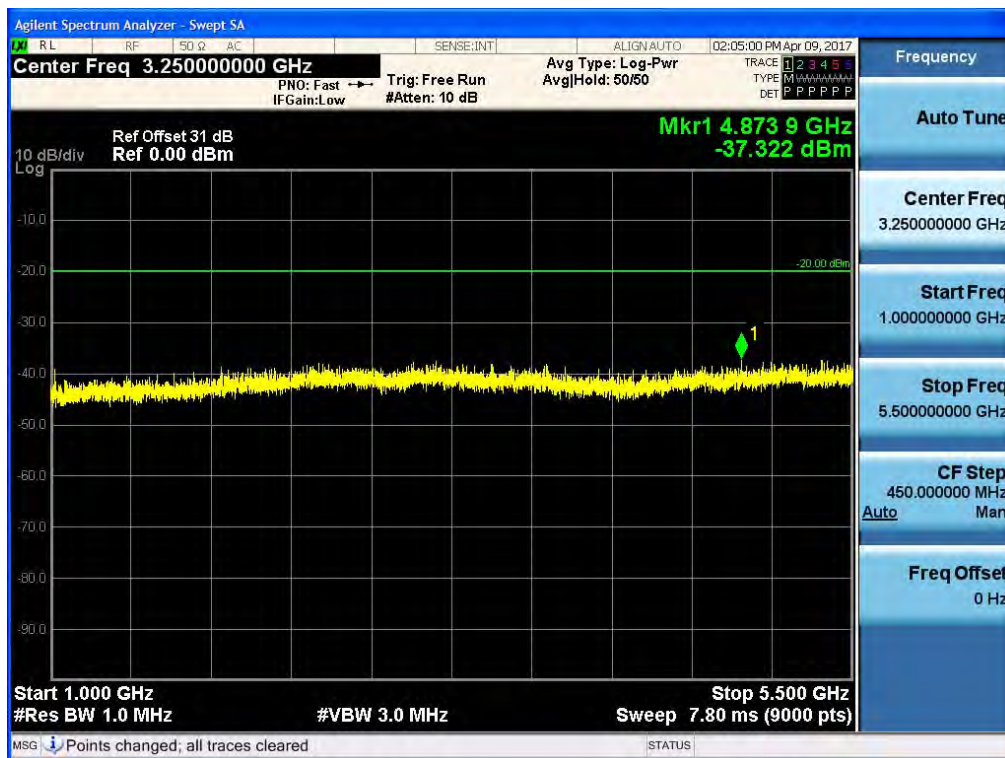
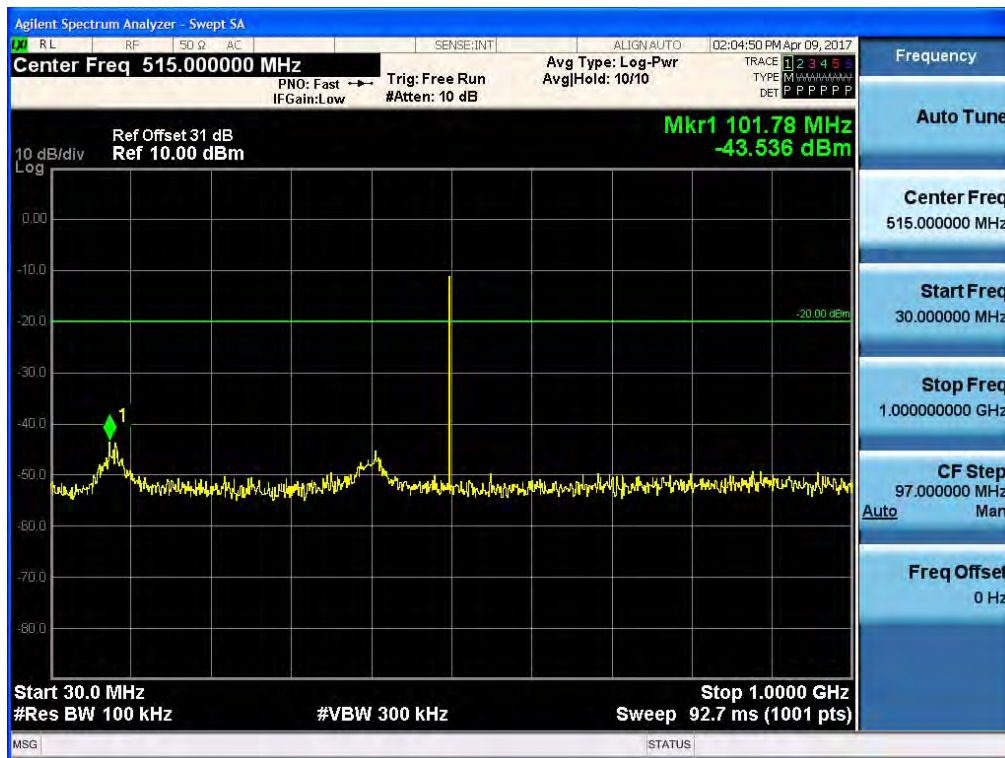
(11K0F3E \_ 491.05 MHz)\_Low



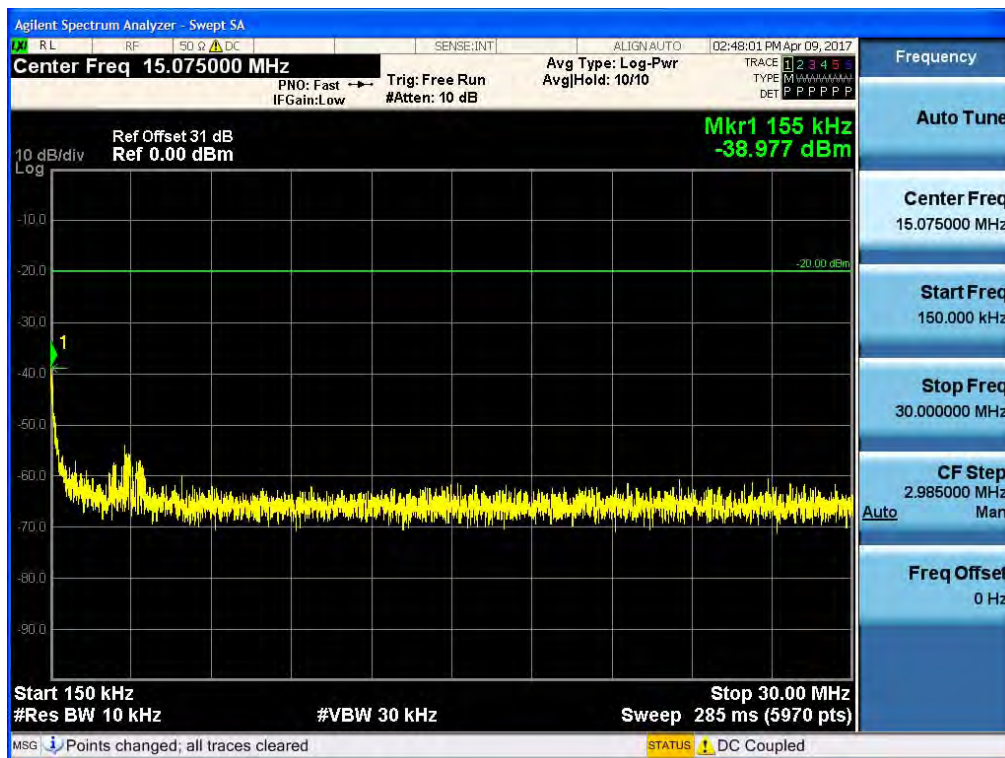


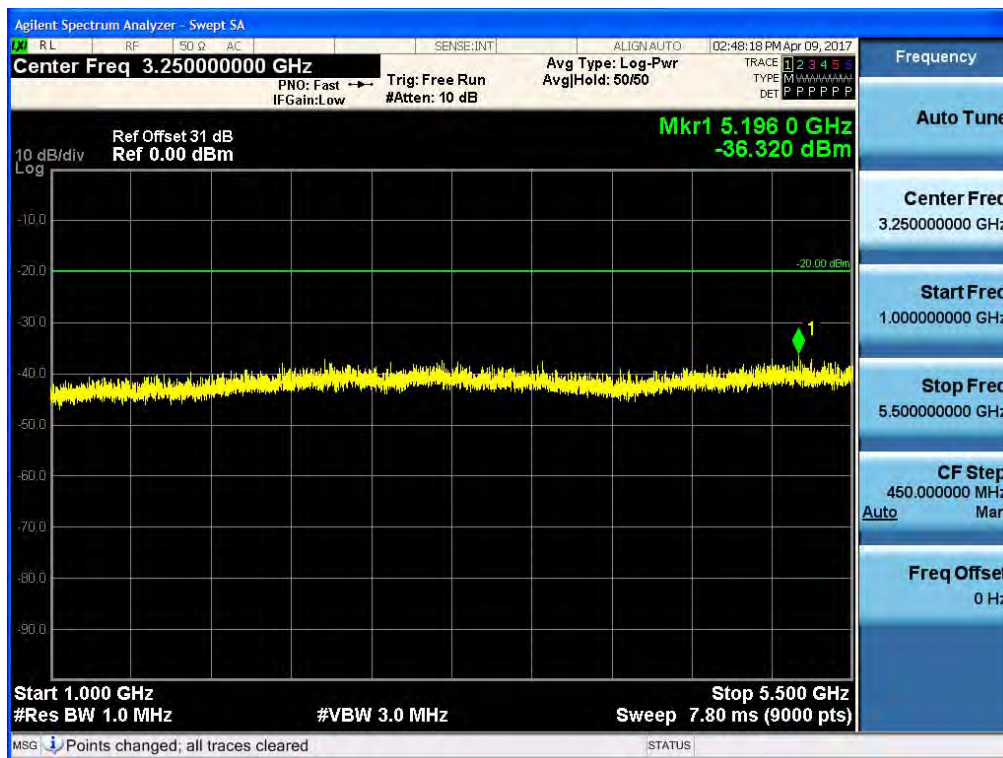
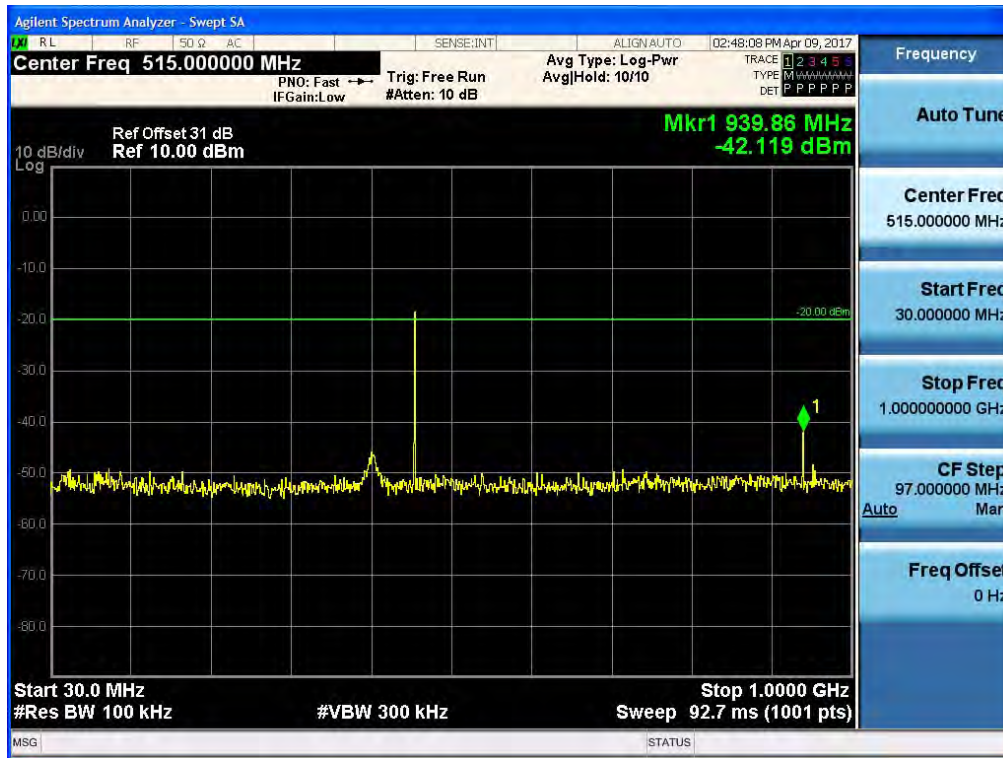
(11K0F3E \_ 511.95 MHz)\_Low





(11K0F3E \_ 470.05 MHz)\_Low





(16K0F3E \_ 406.15 MHz)\_High

