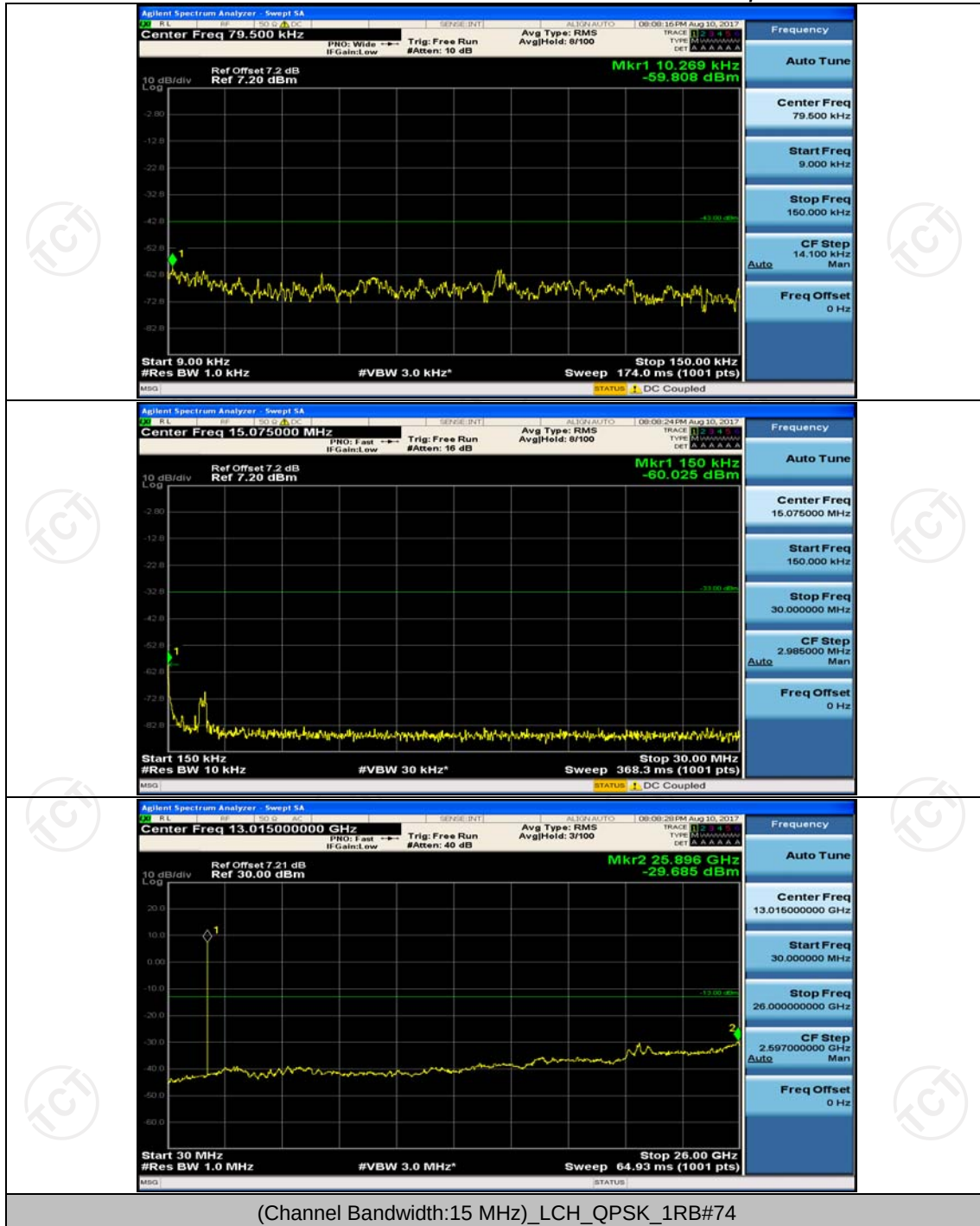
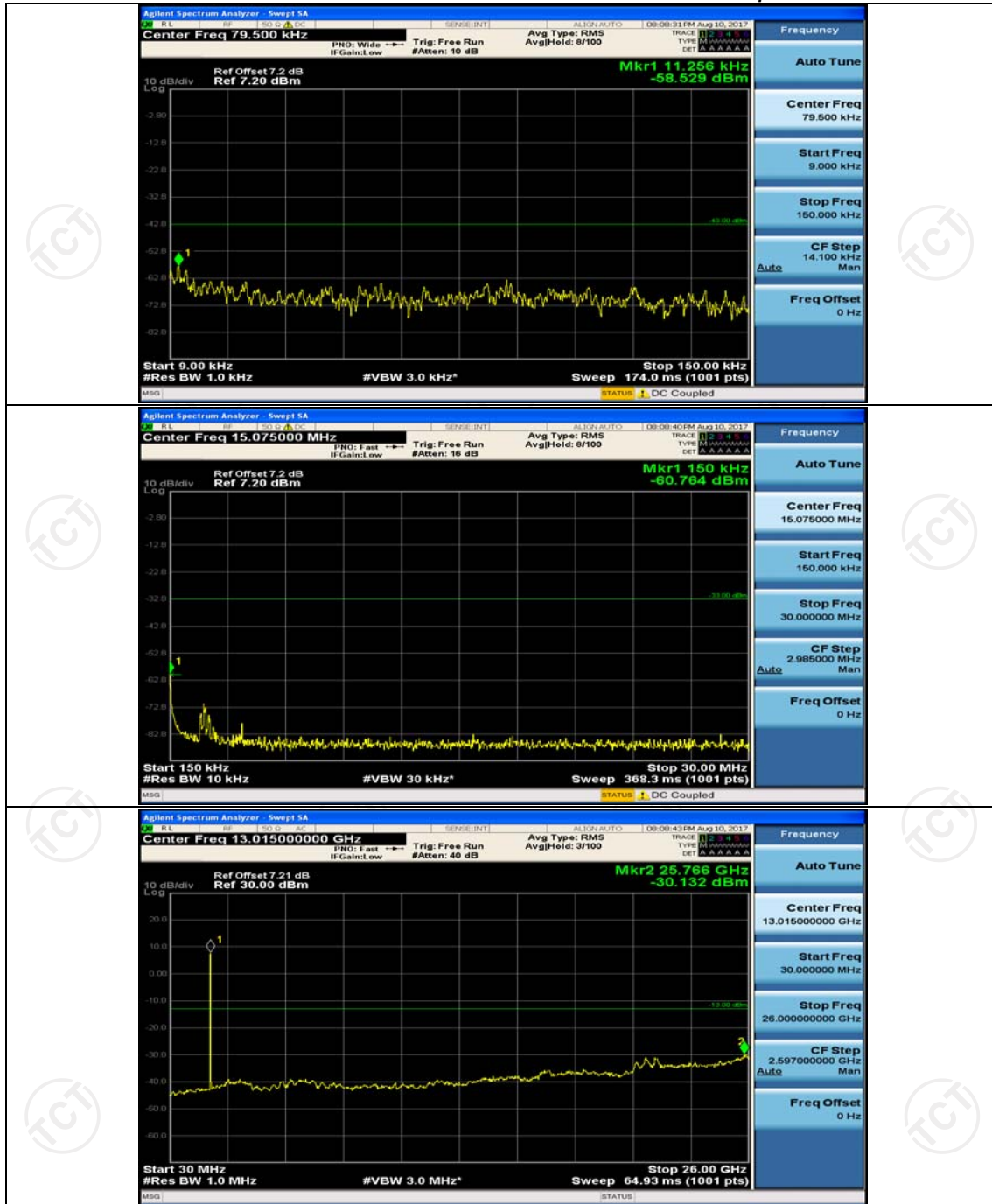
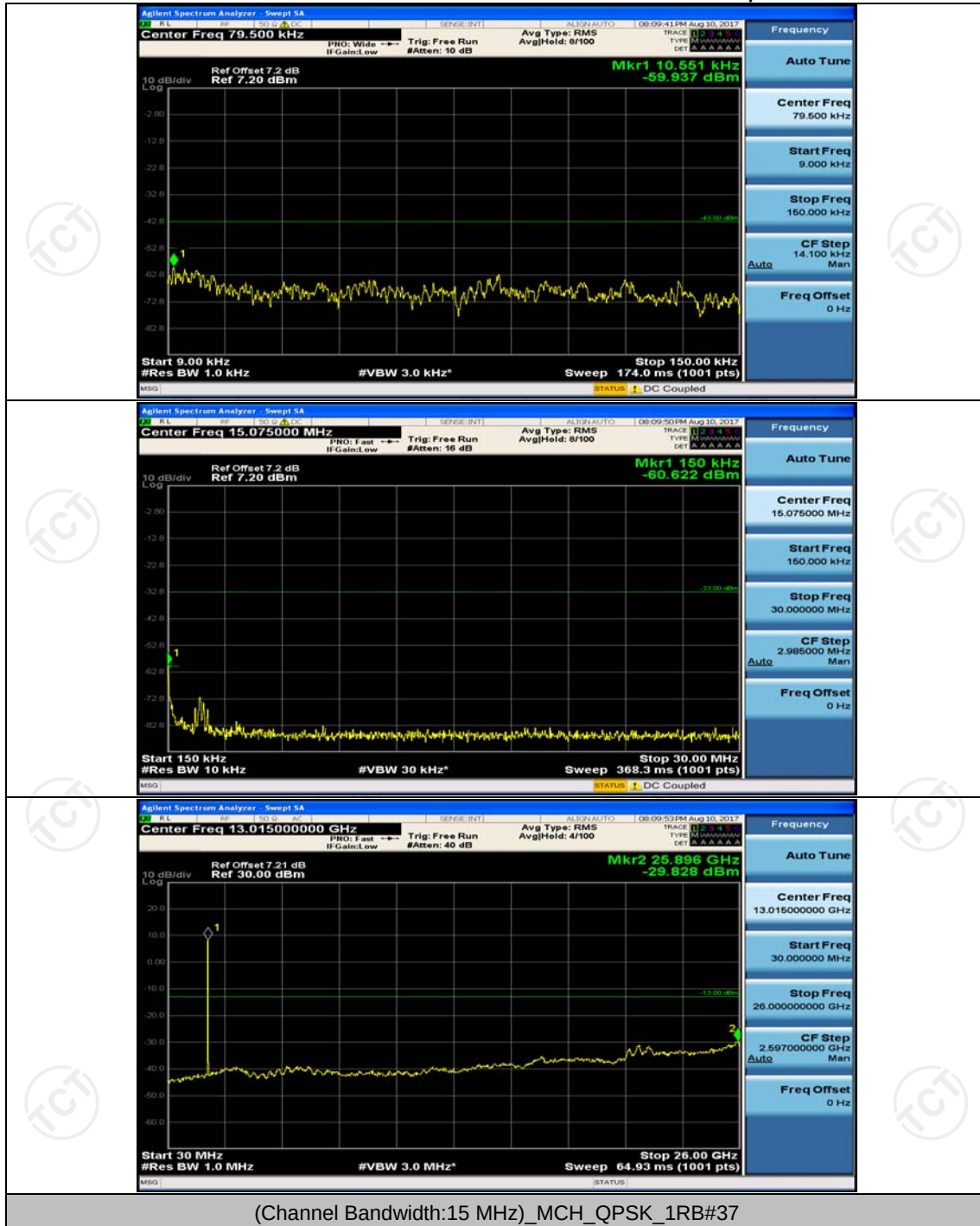
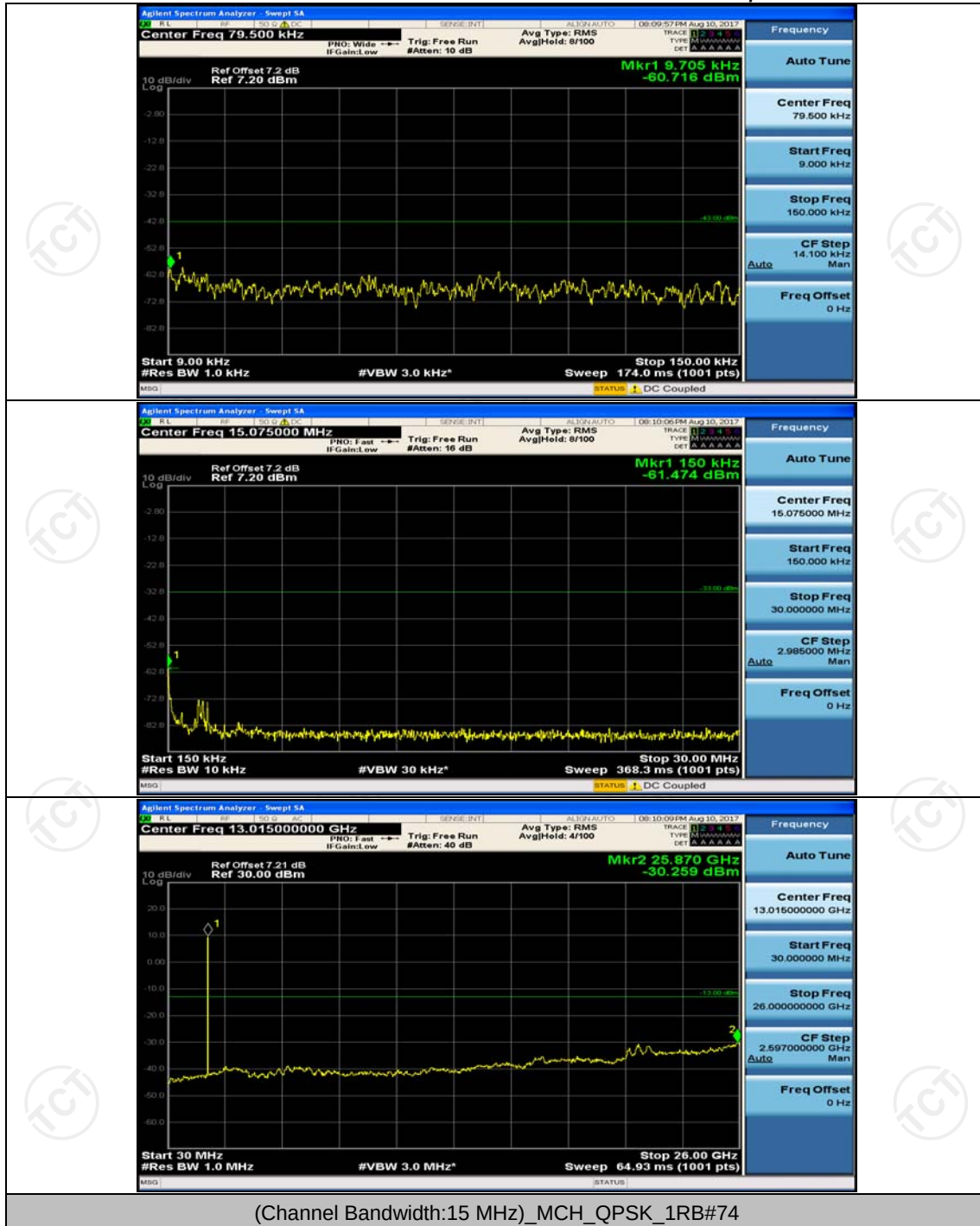


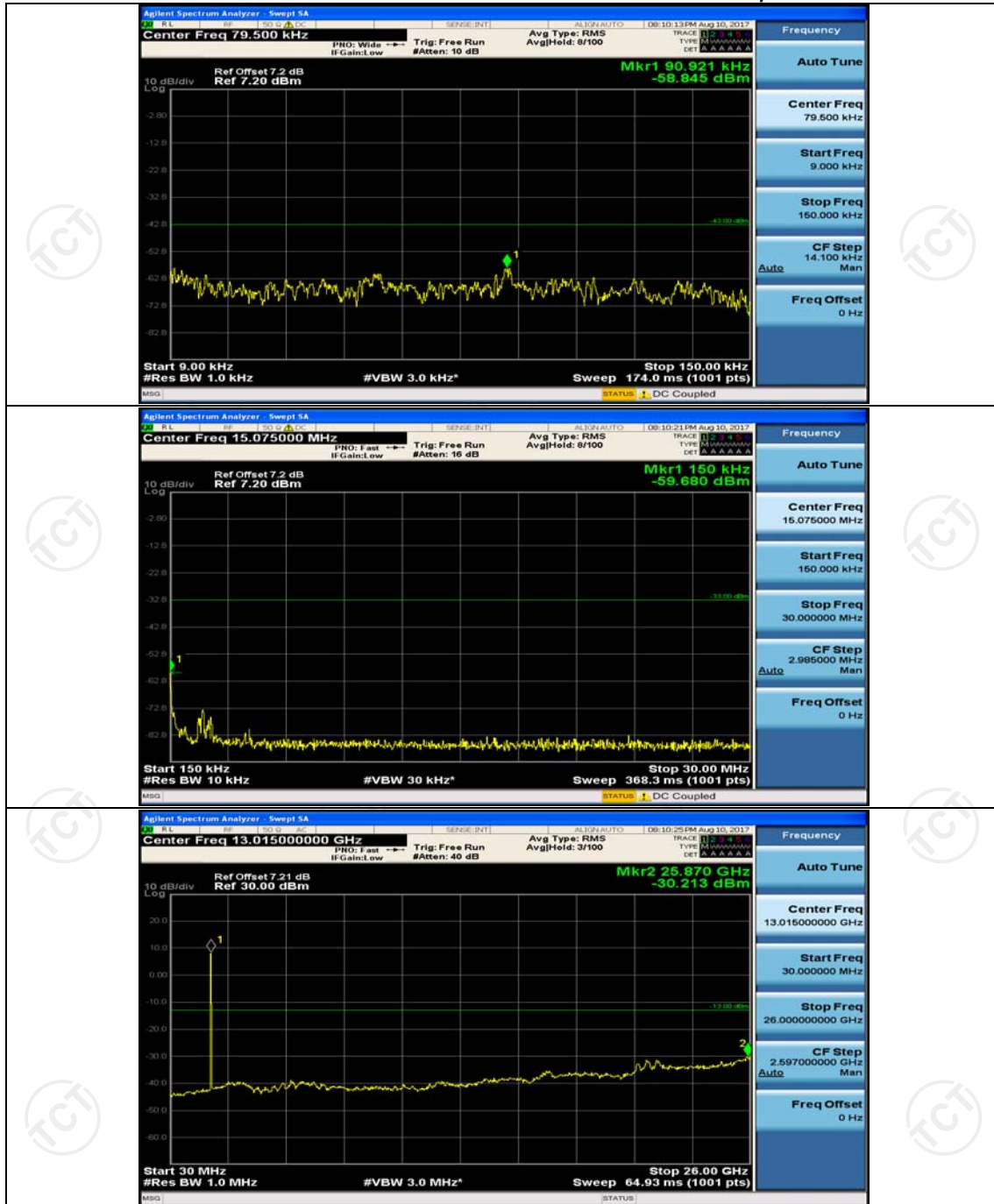




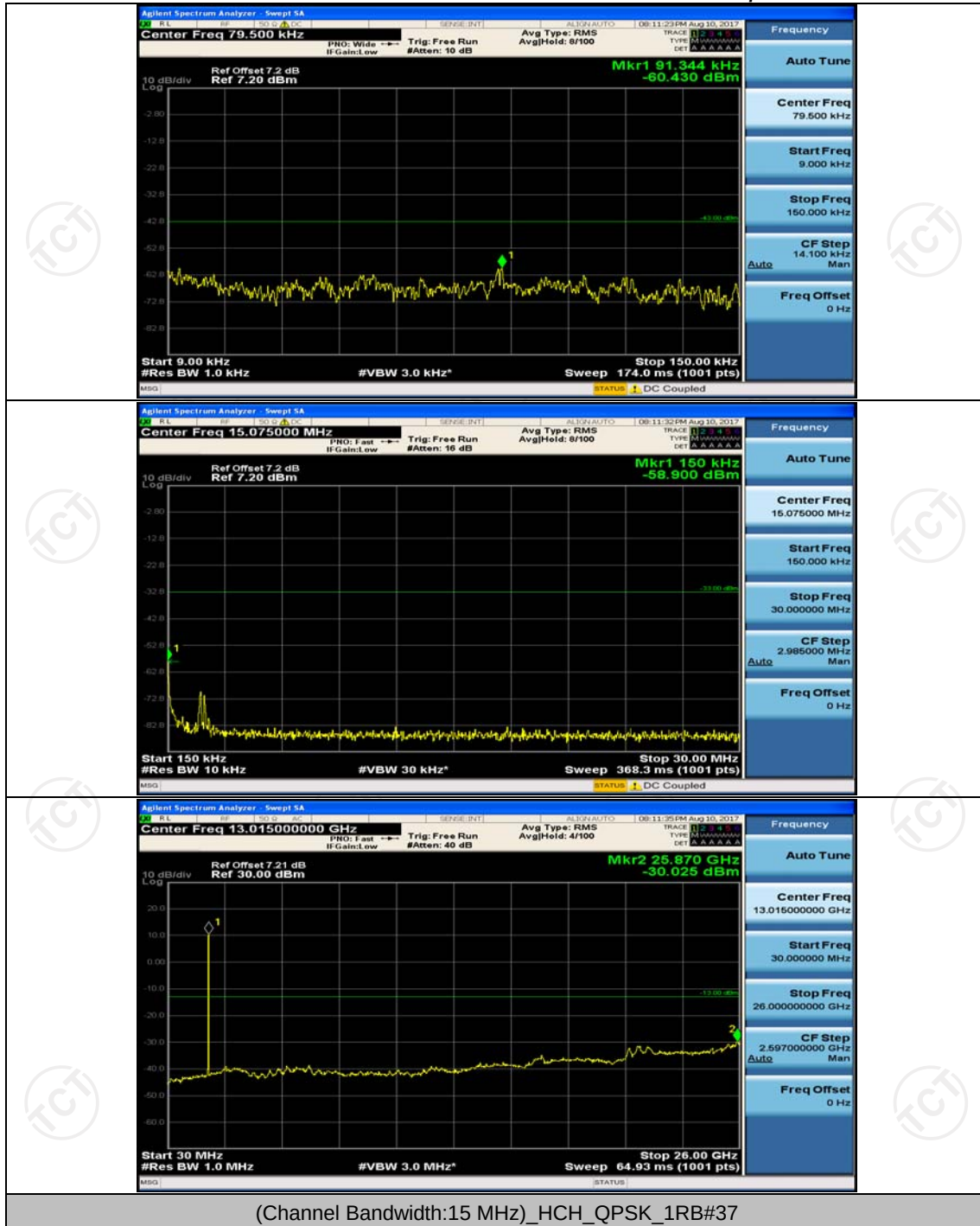
(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_1RB#0

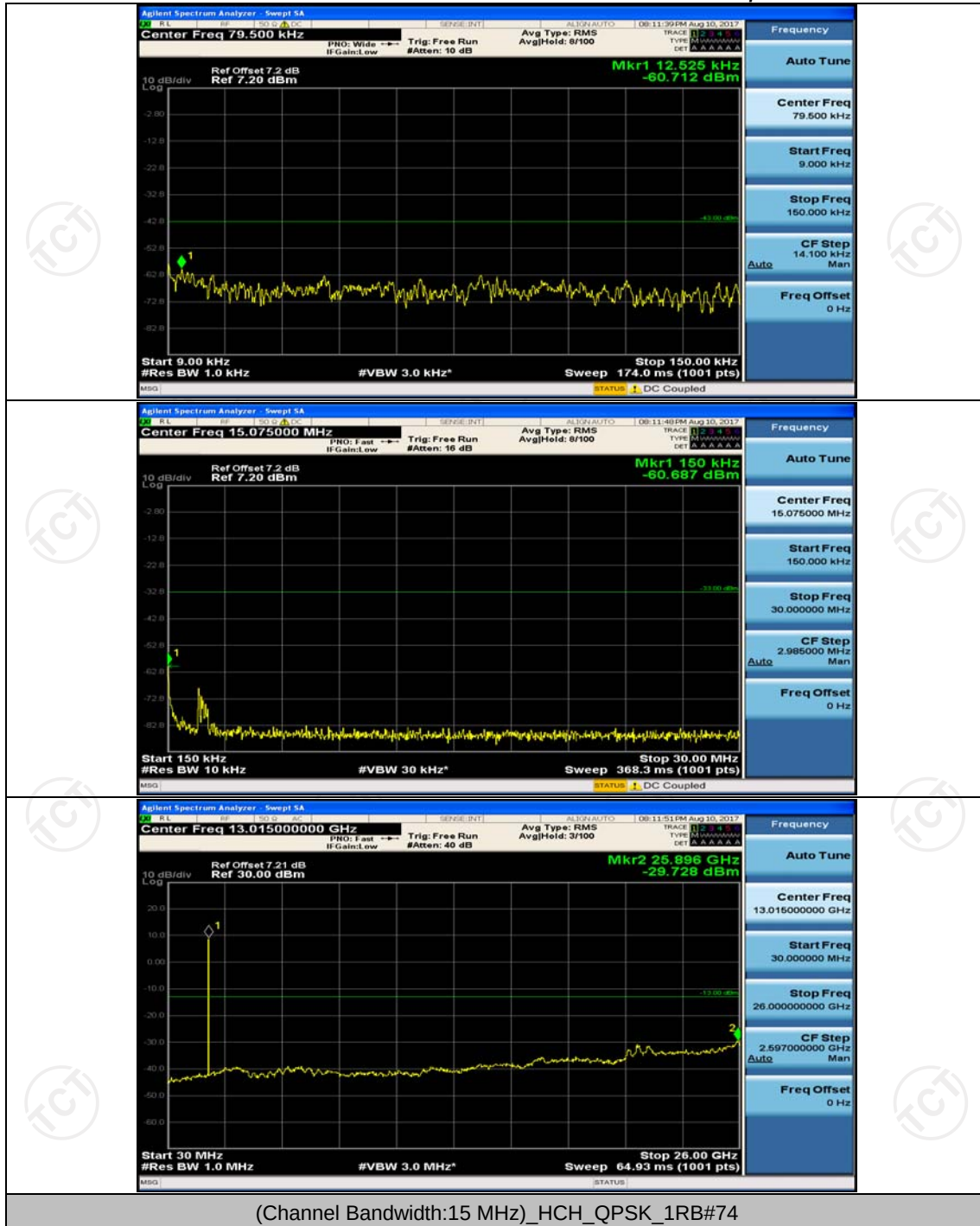


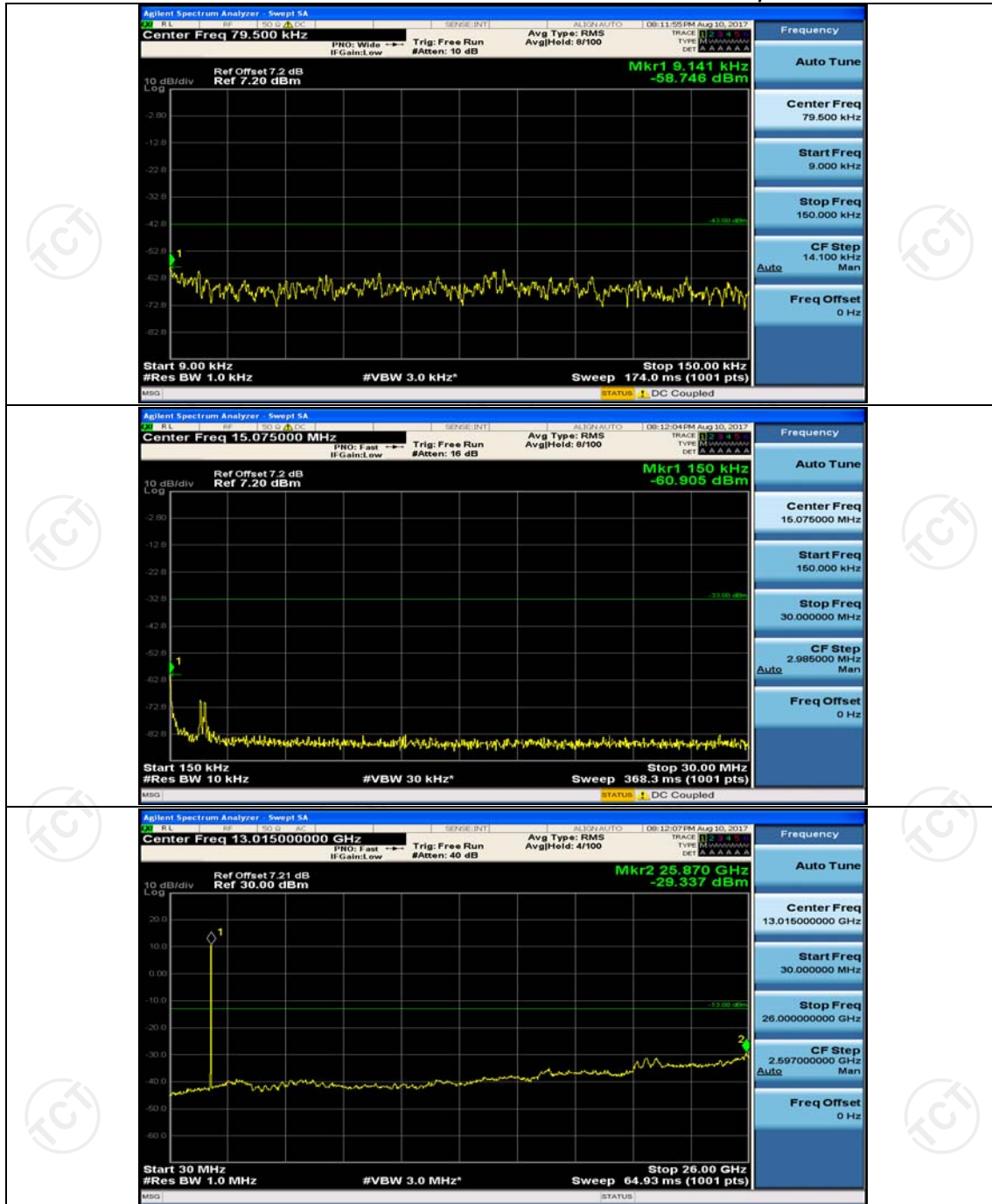




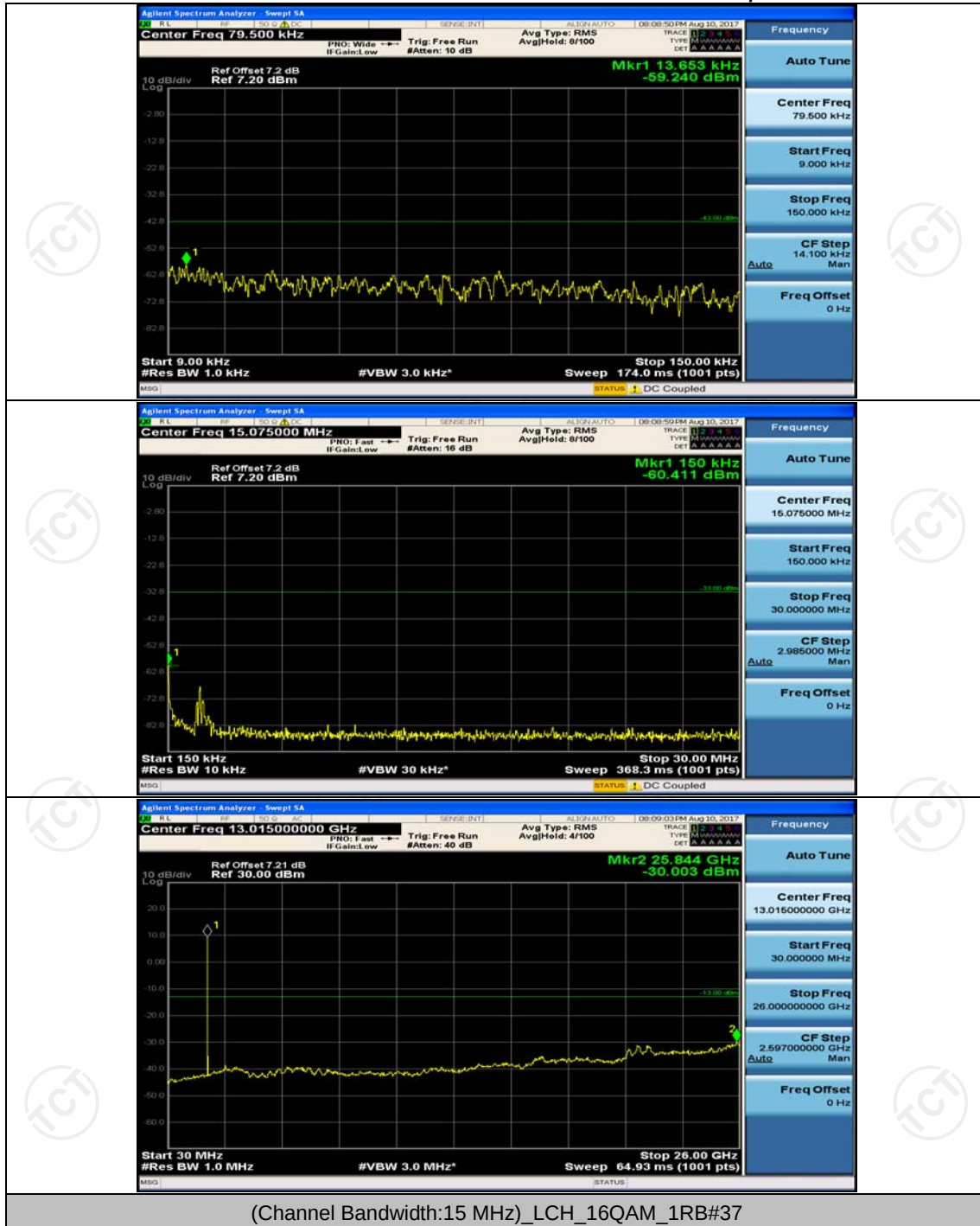
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#0

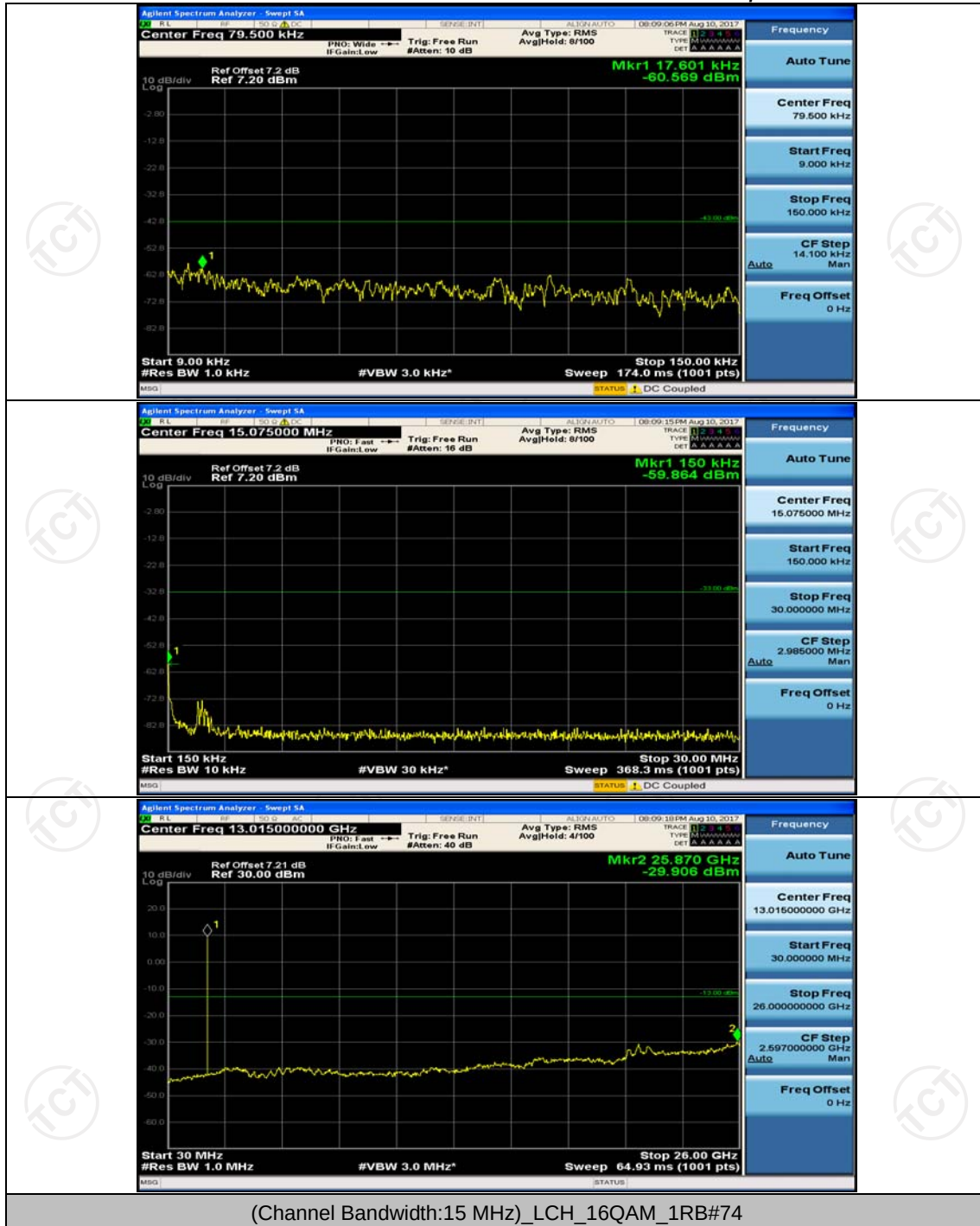


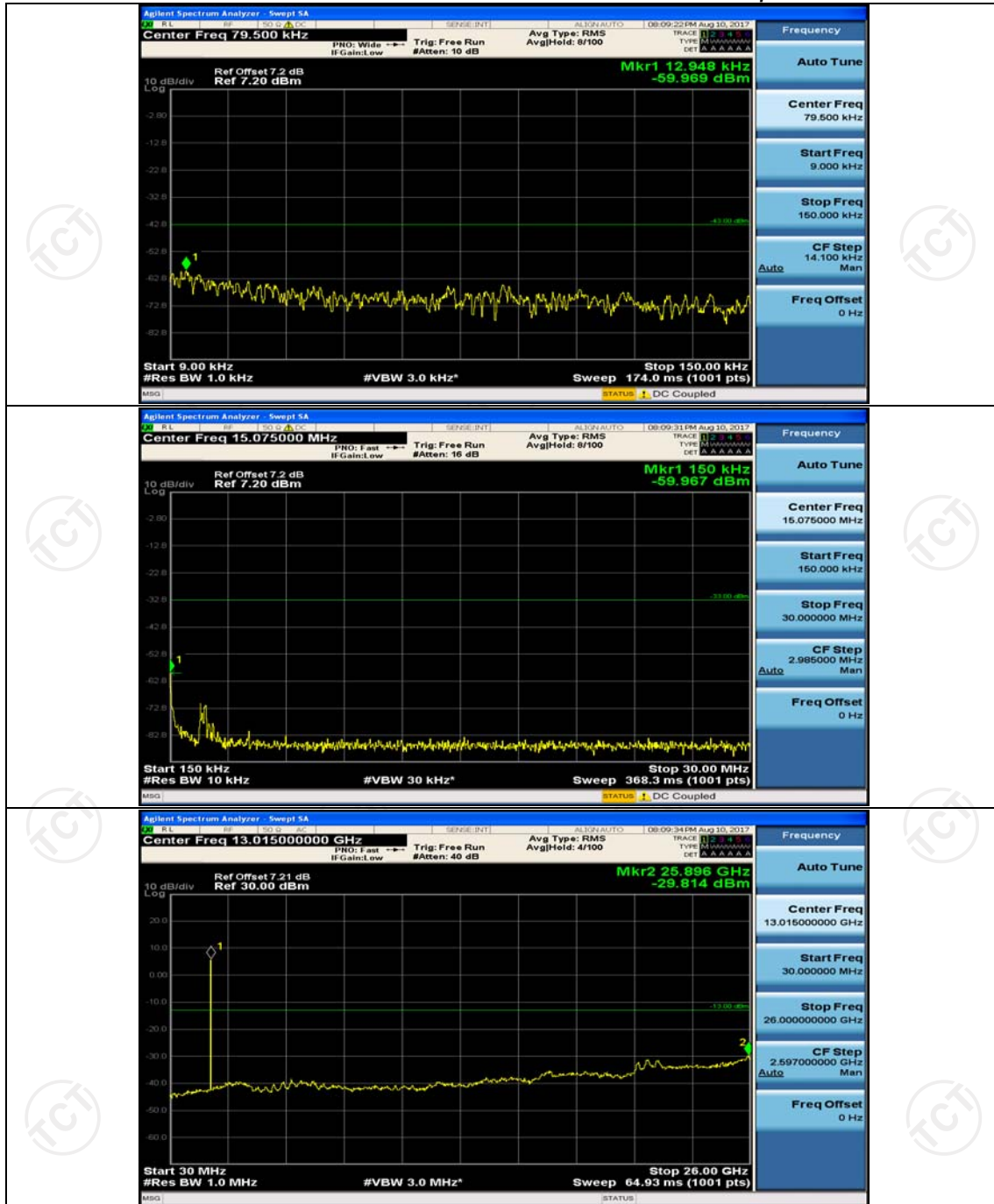




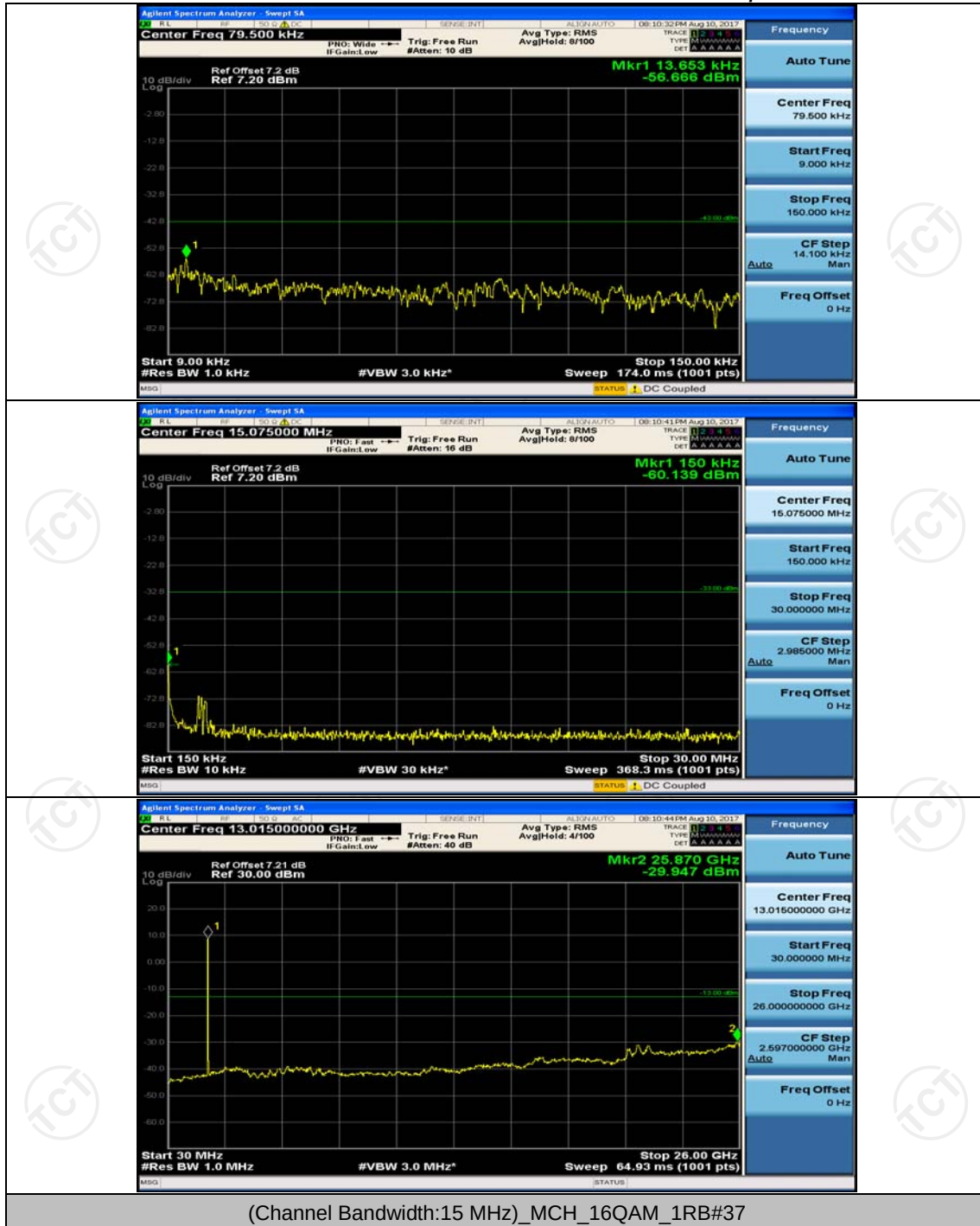
(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_1RB#0

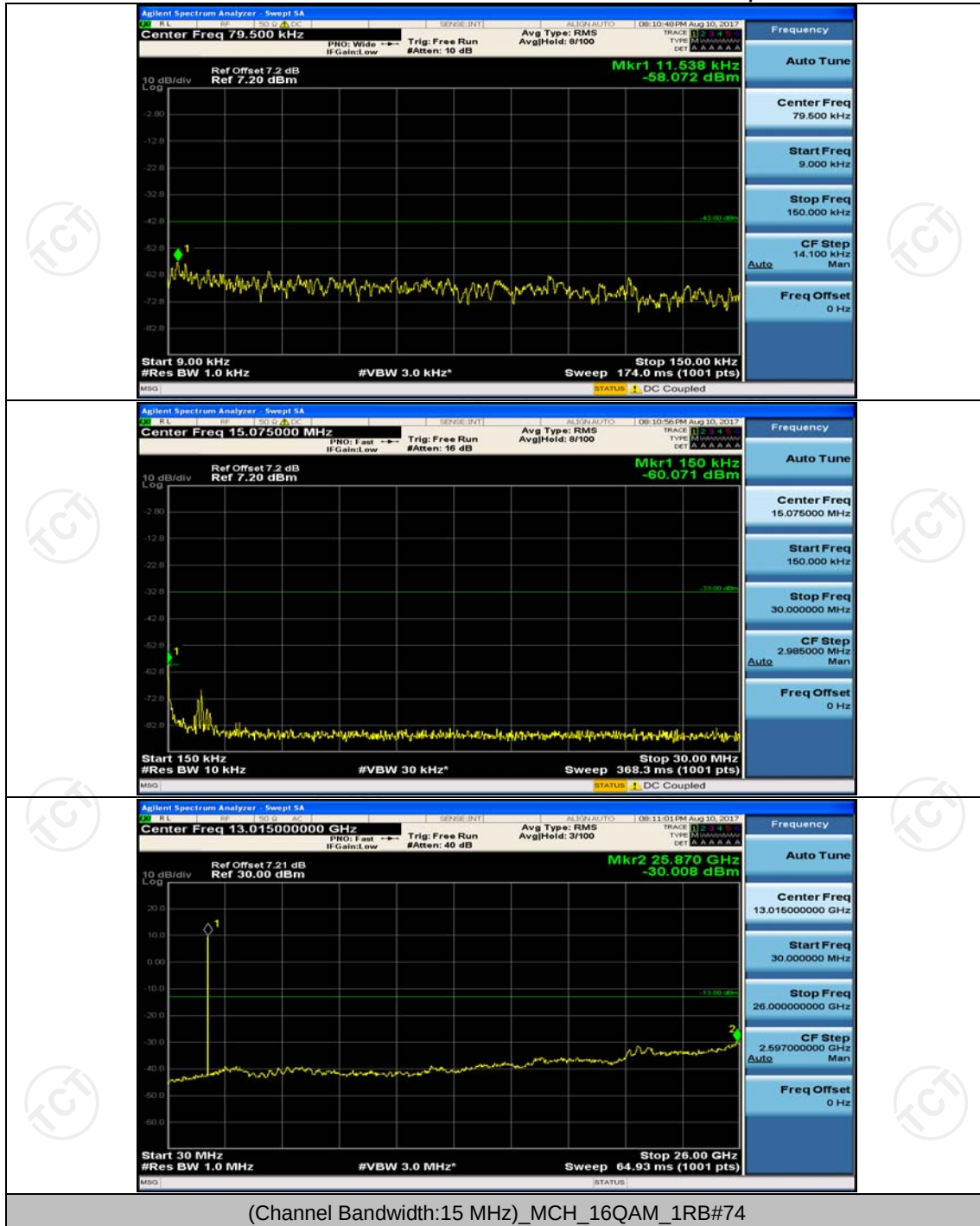


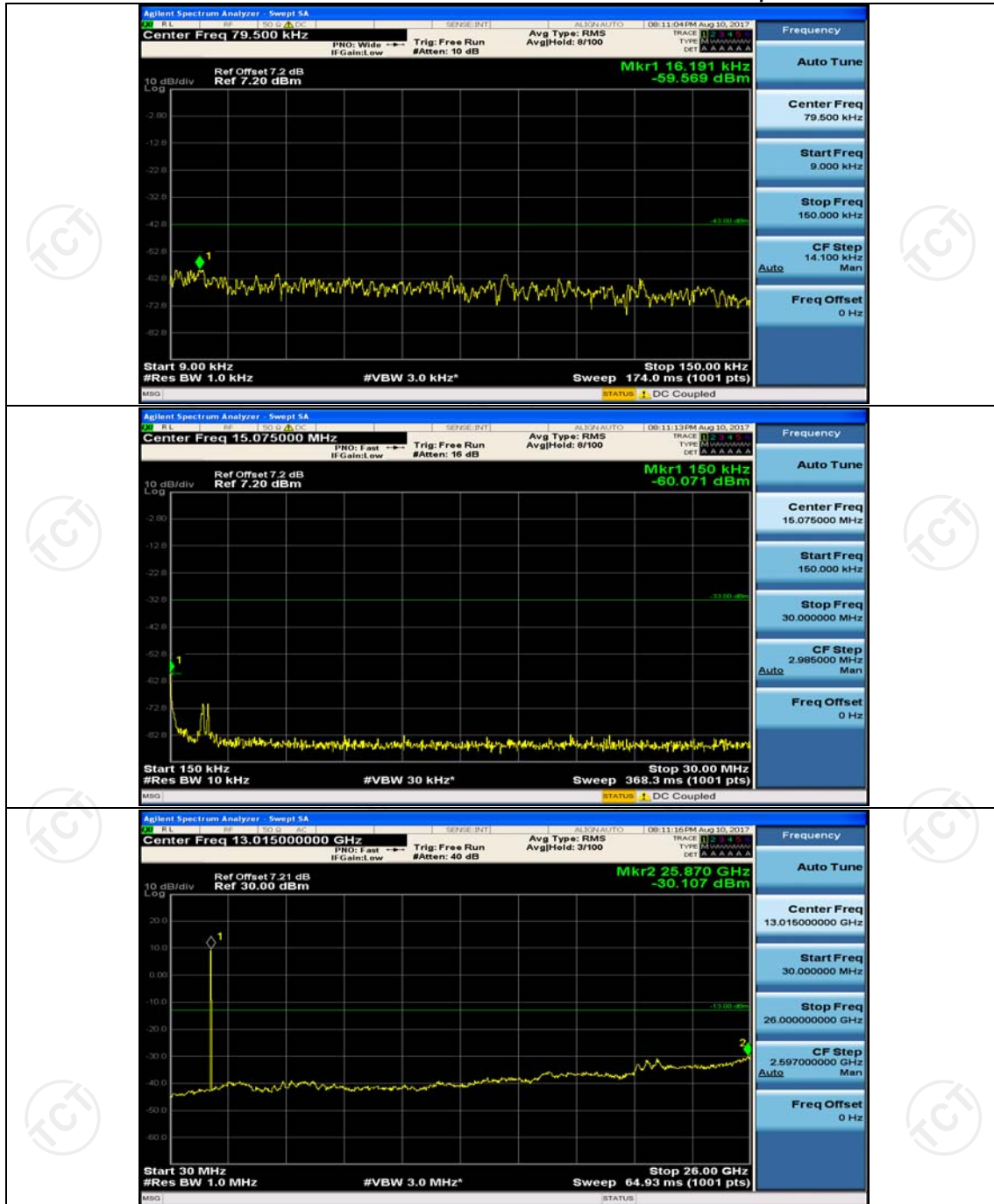




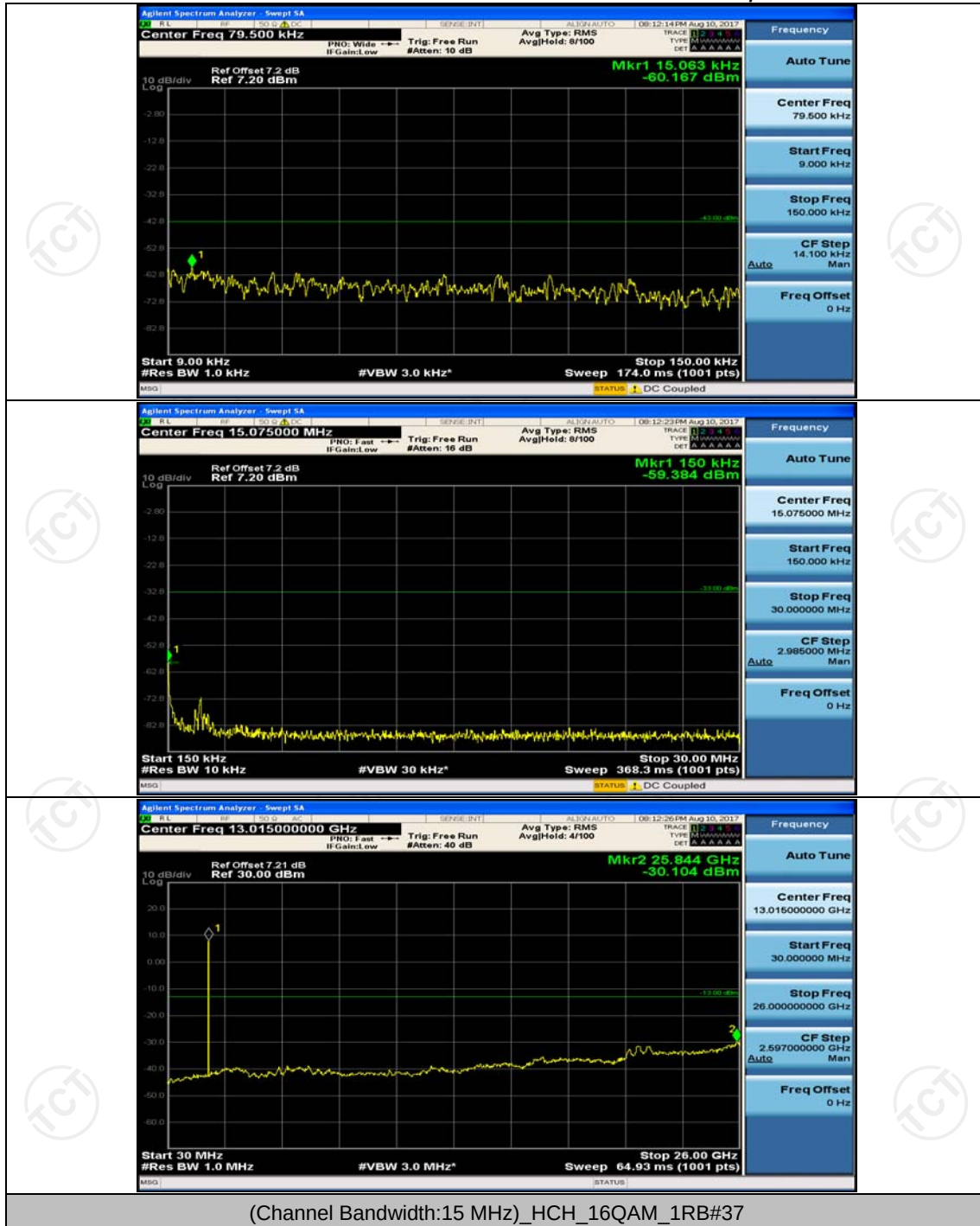
(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#0

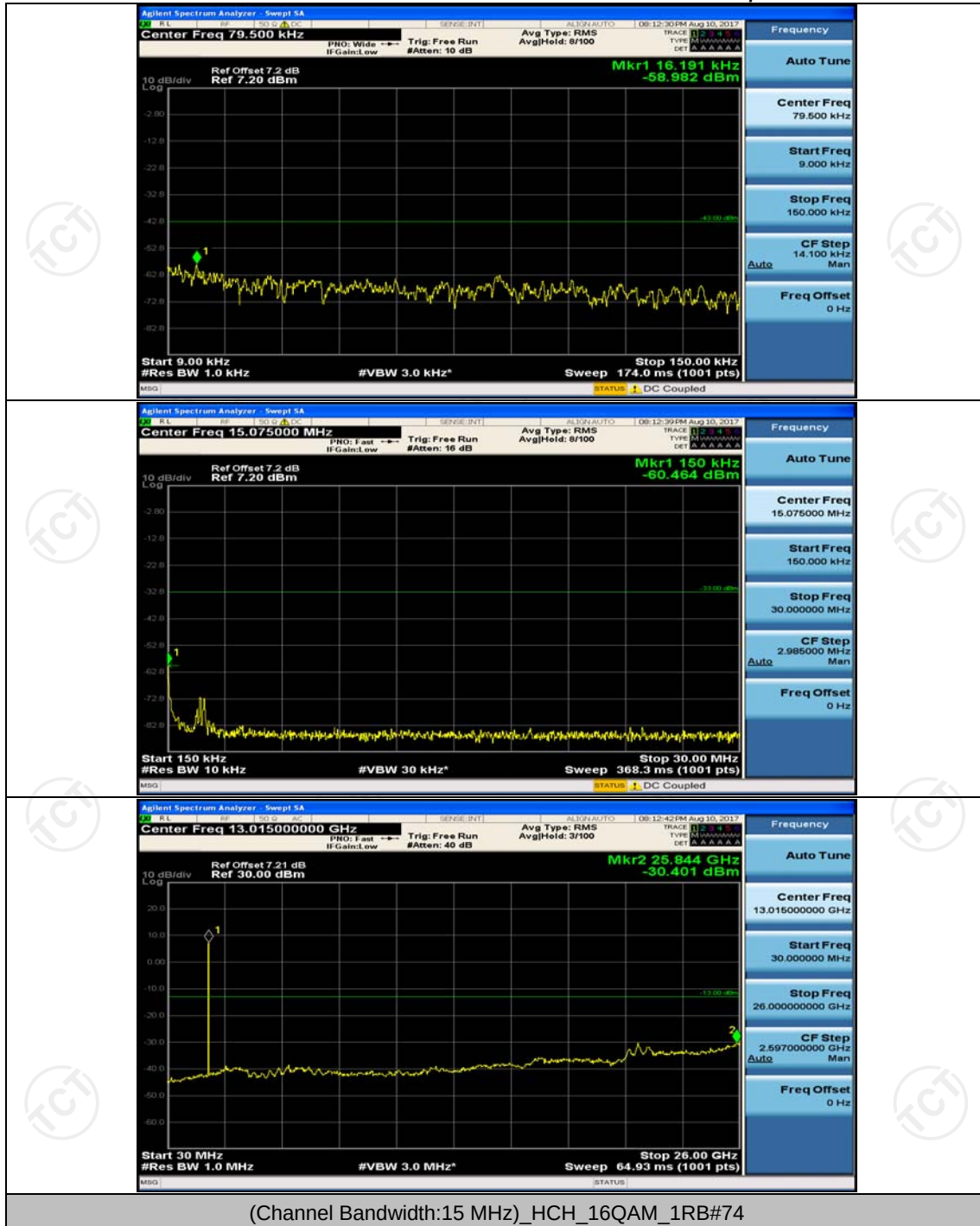


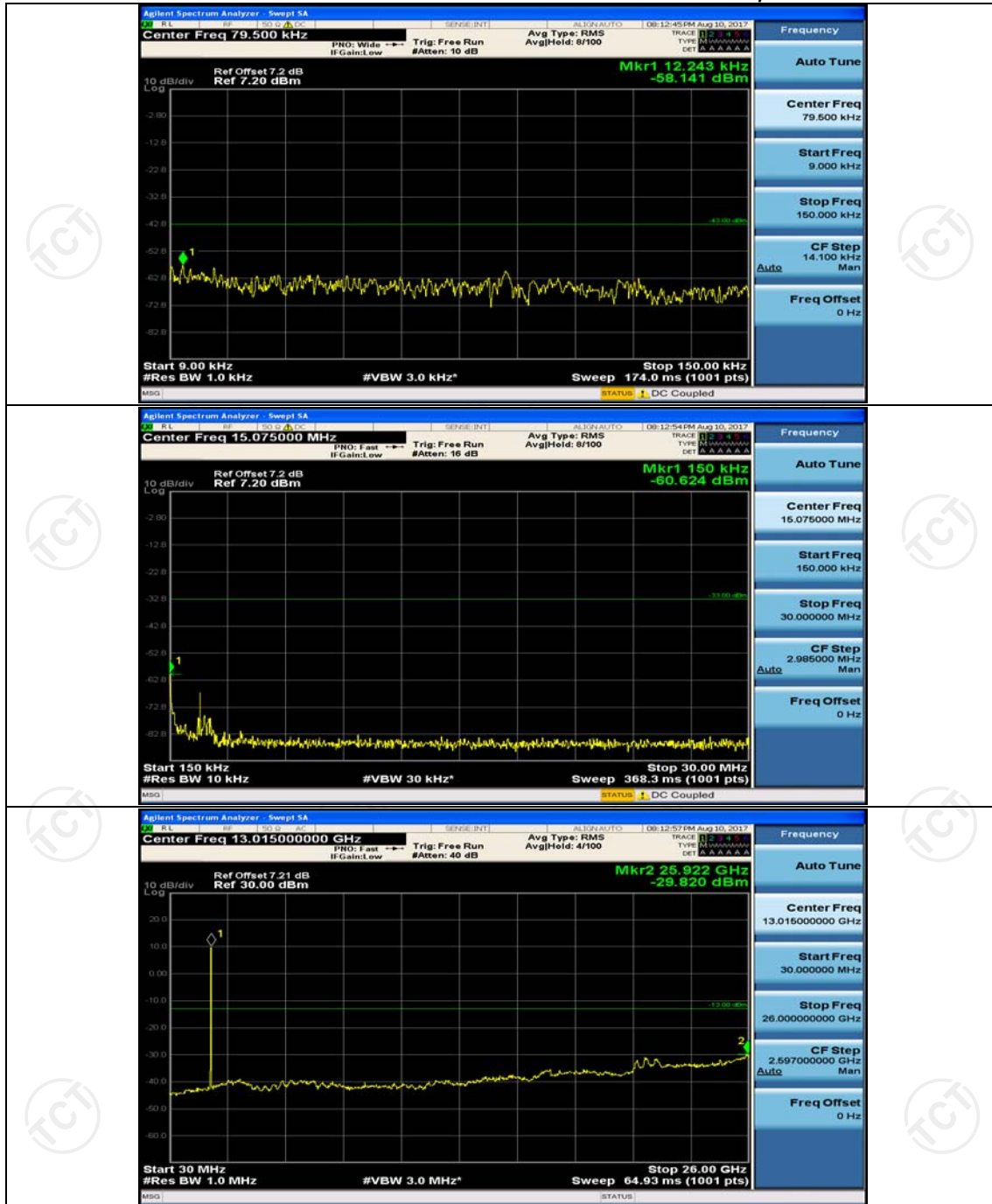




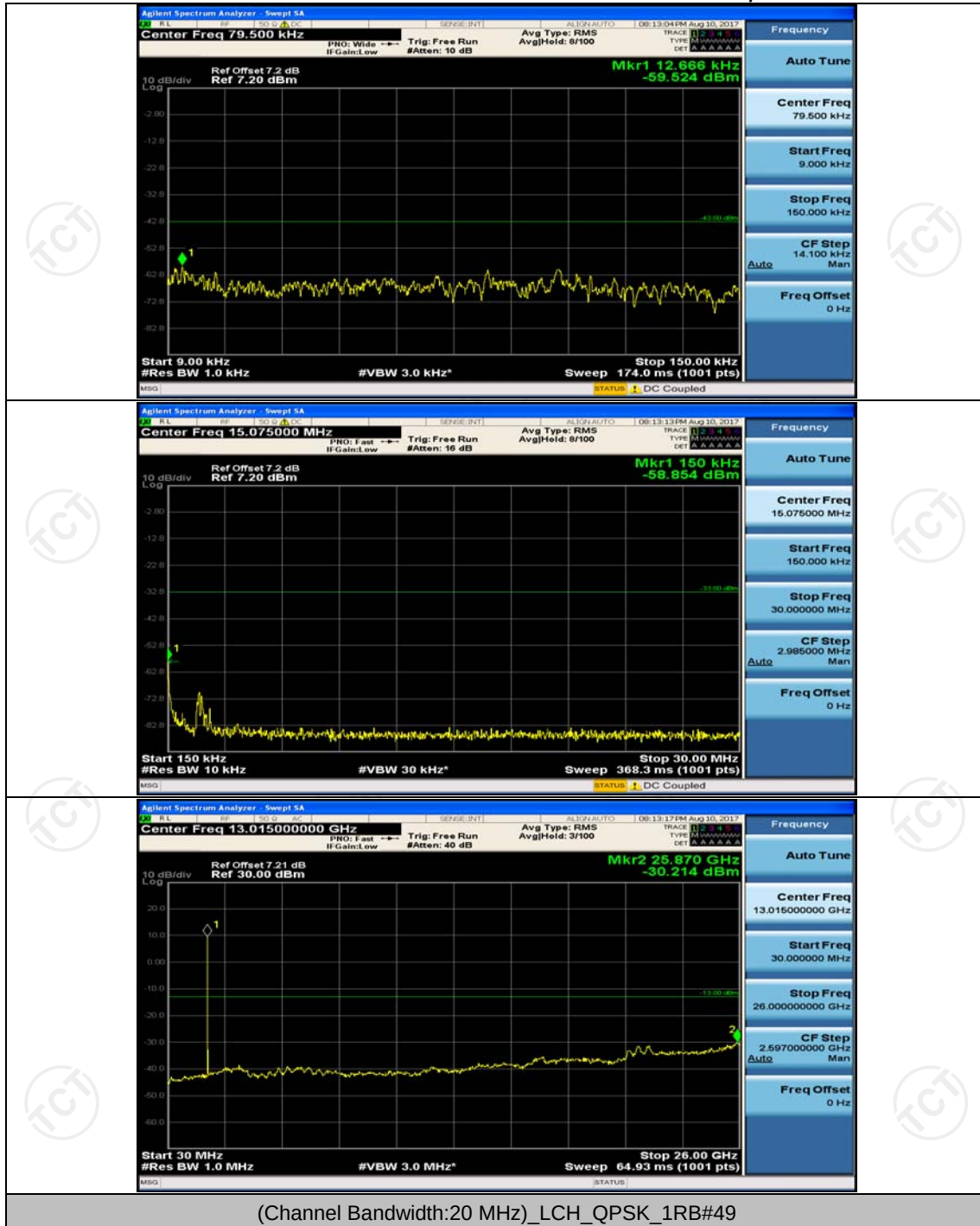
(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#0

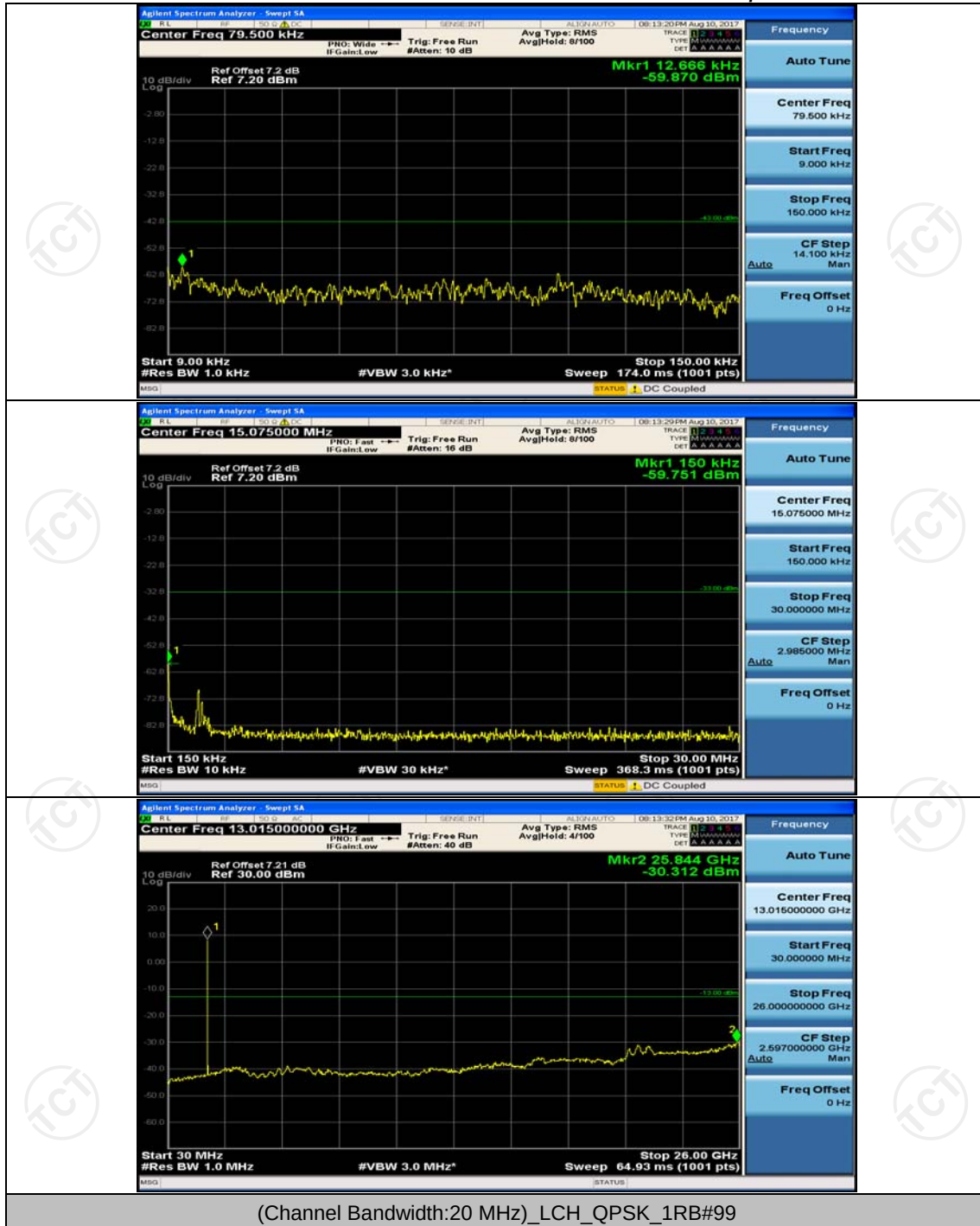




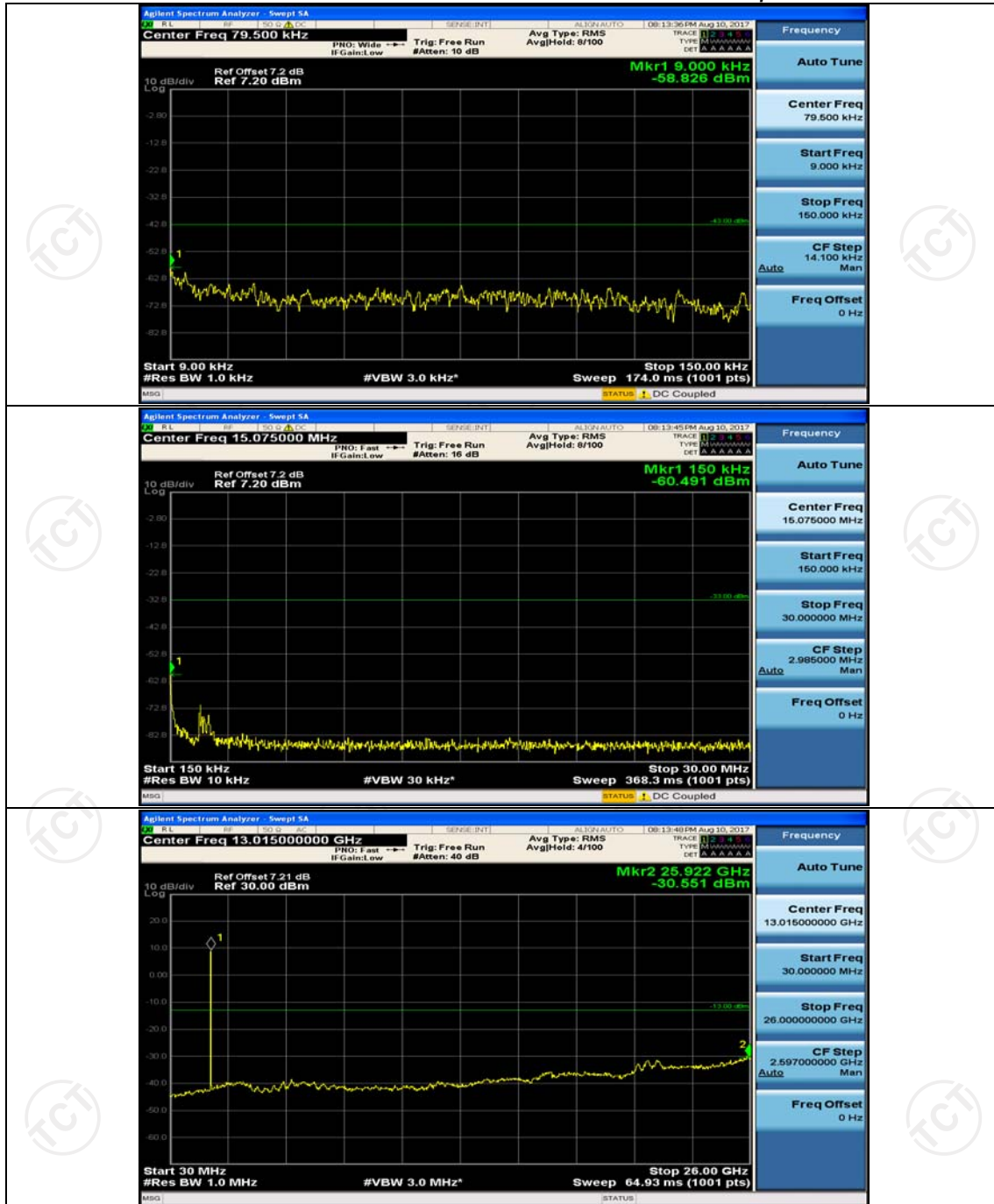


(Channel Bandwidth:20 MHz)\_LCH\_QPSK\_1RB#0

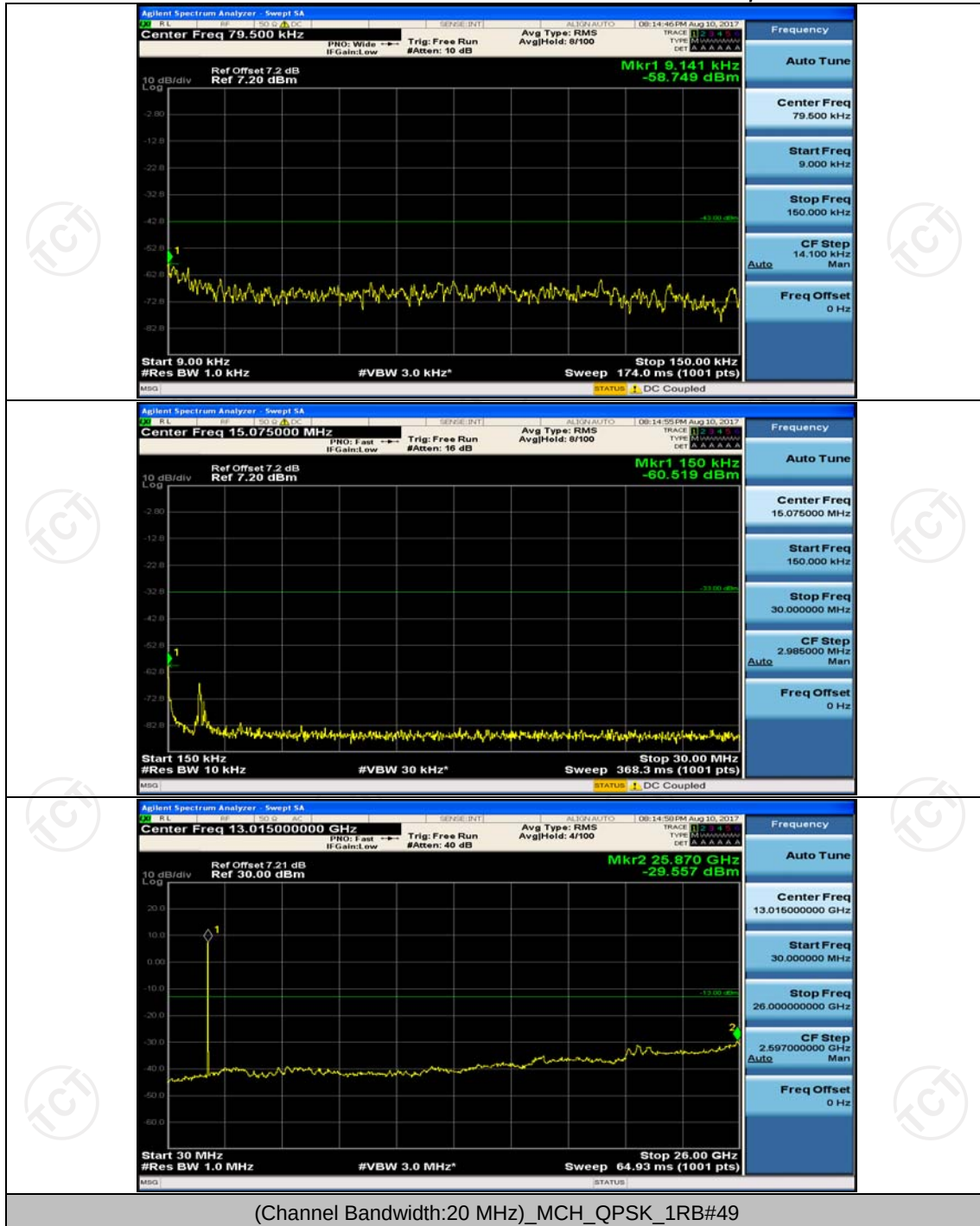


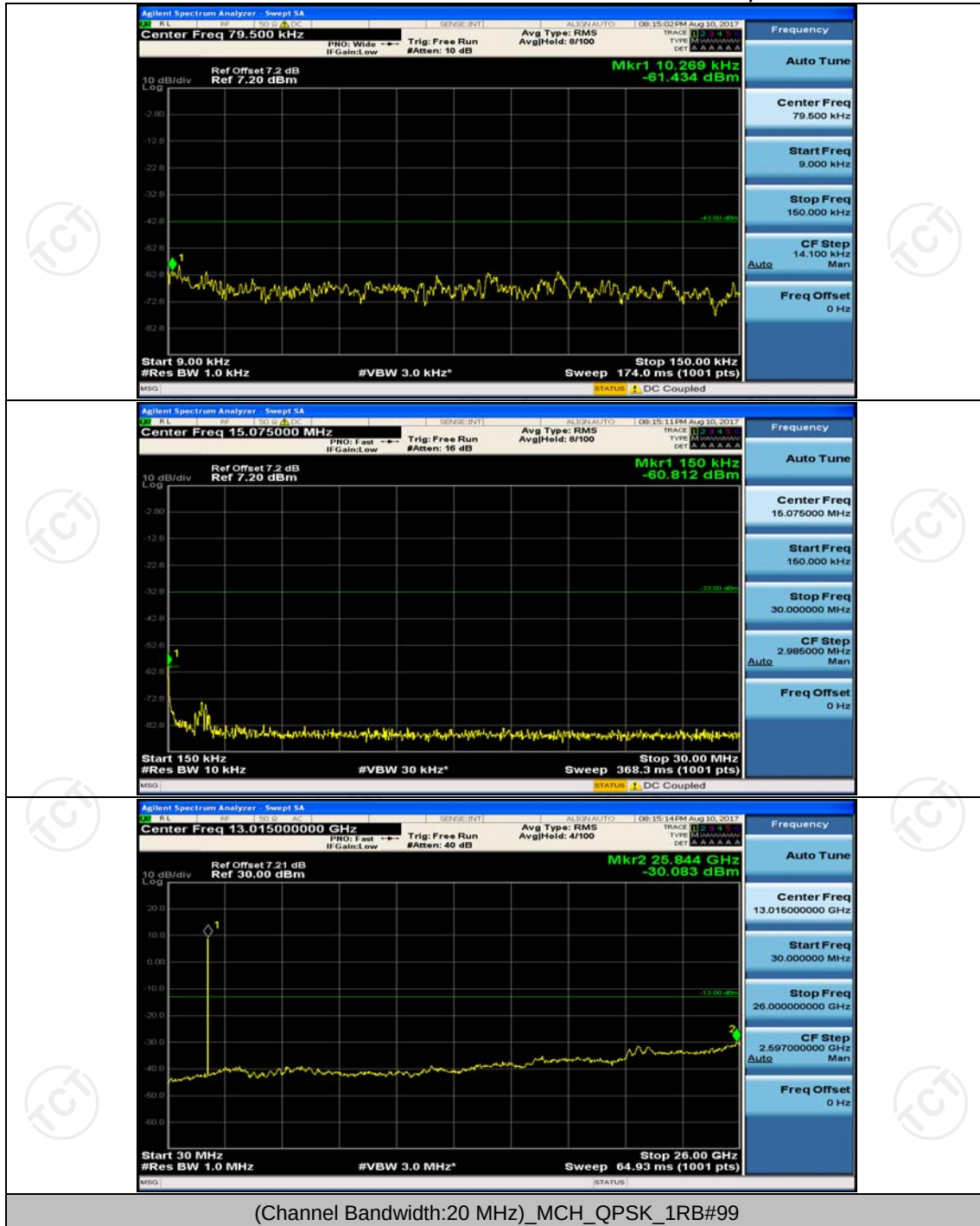


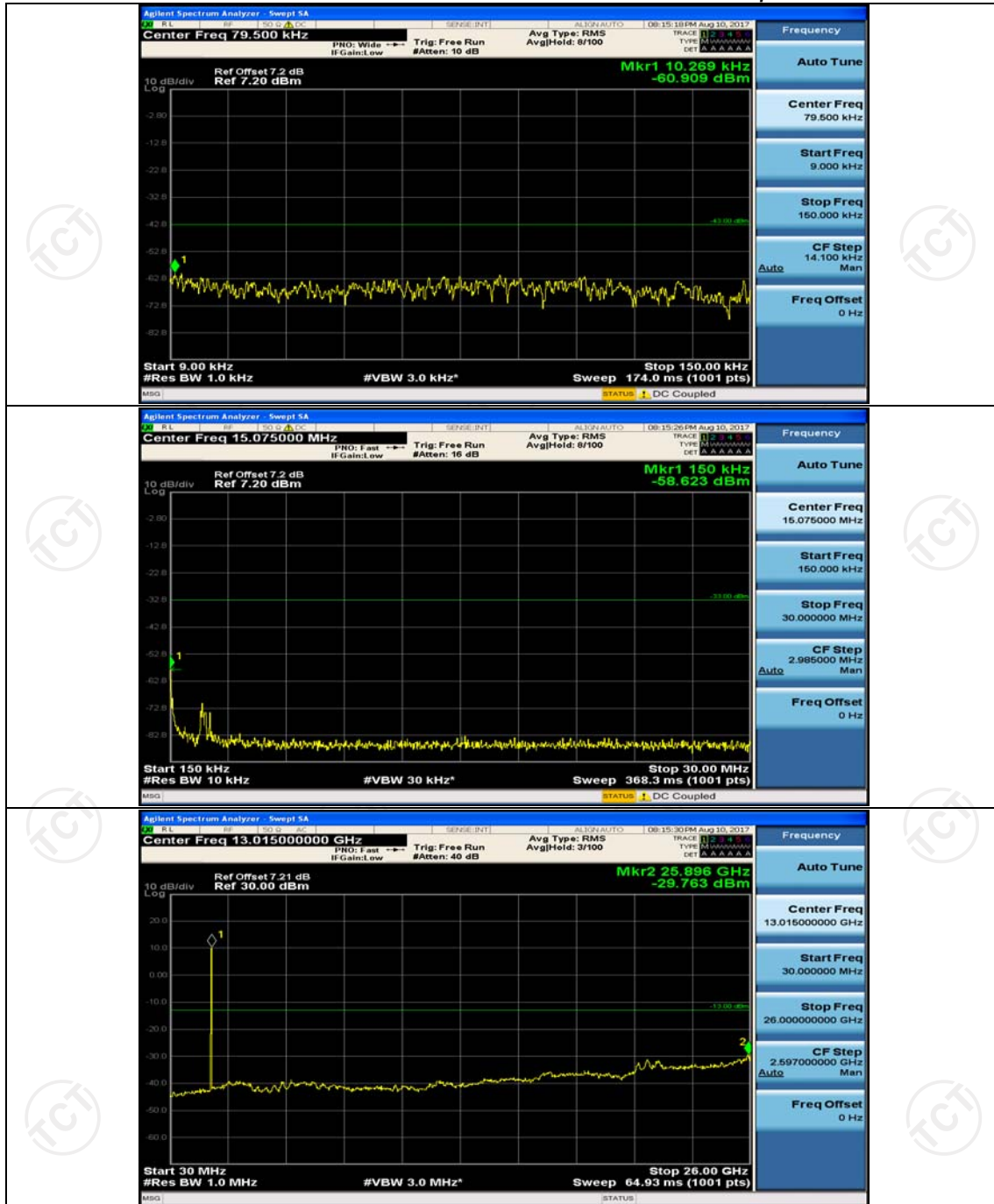
(Channel Bandwidth:20 MHz)\_LCH\_QPSK\_1RB#99



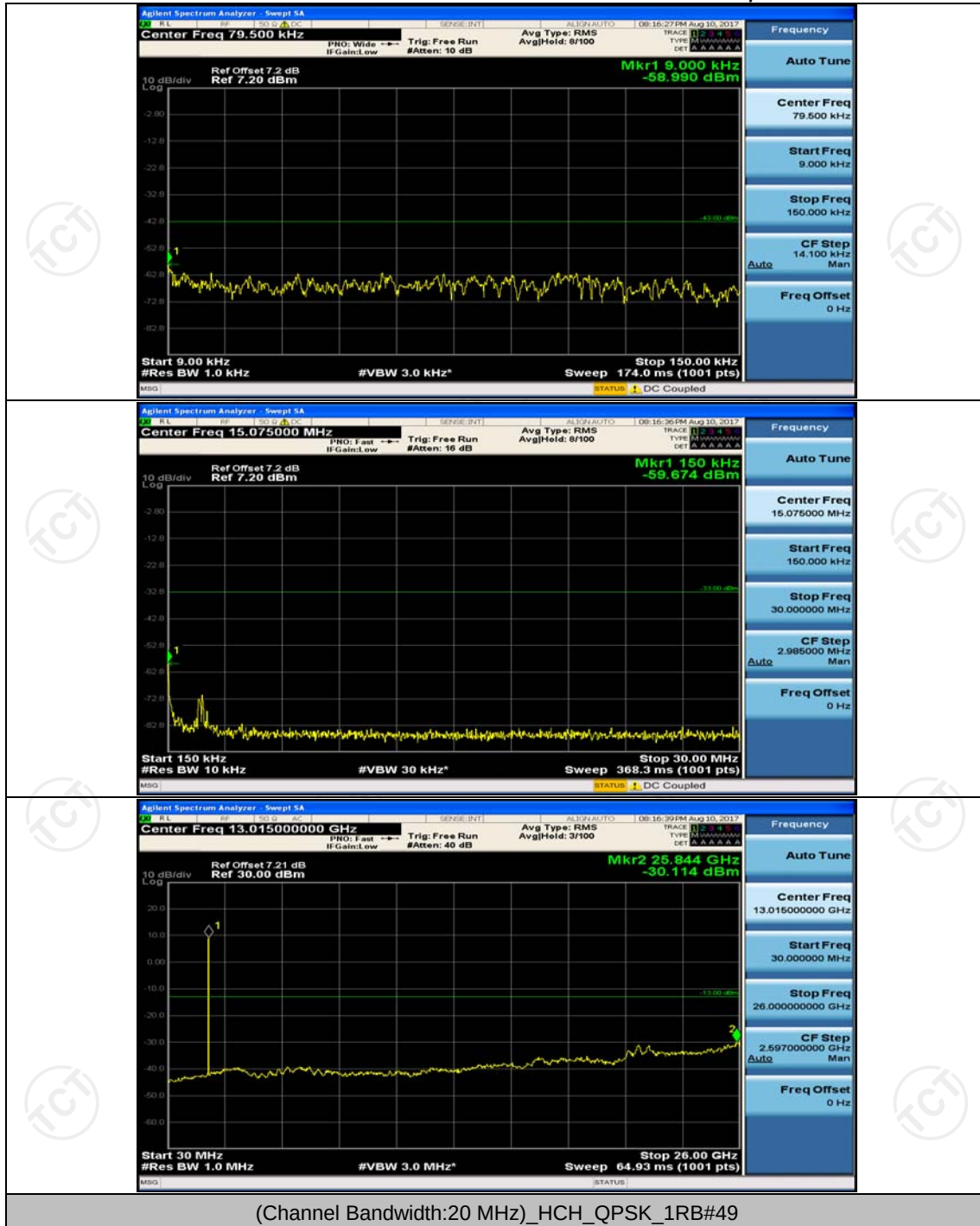
(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#0

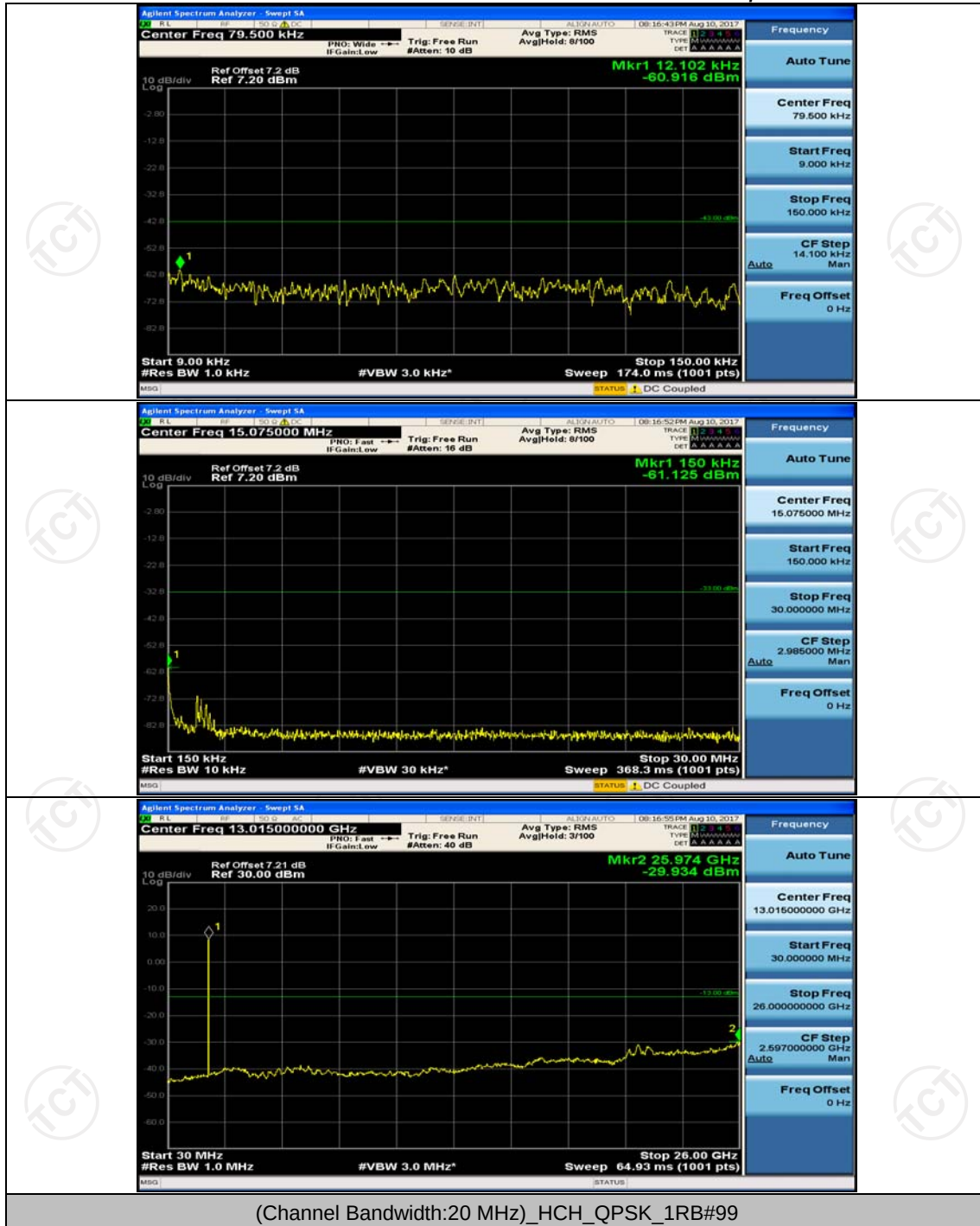


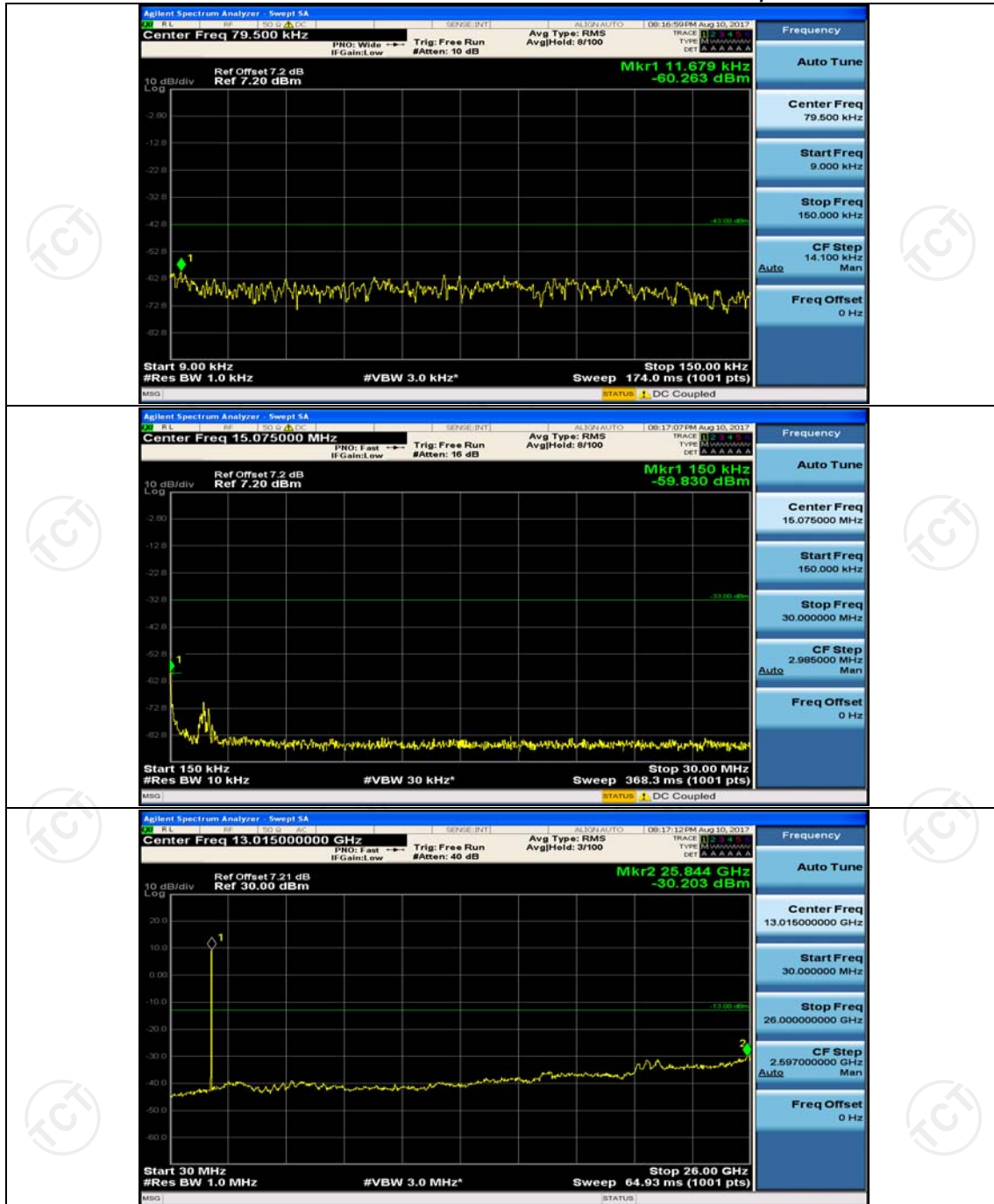




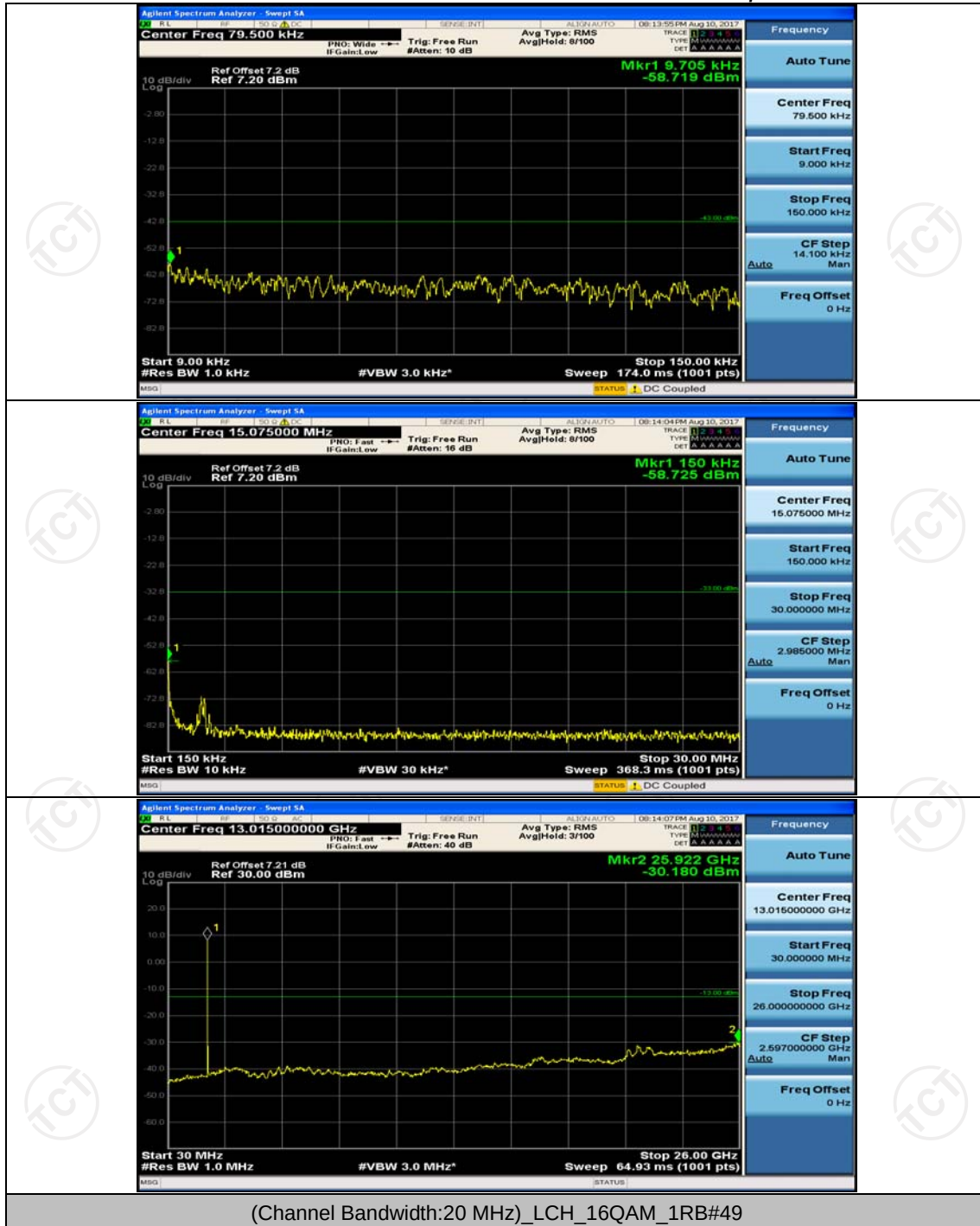
(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

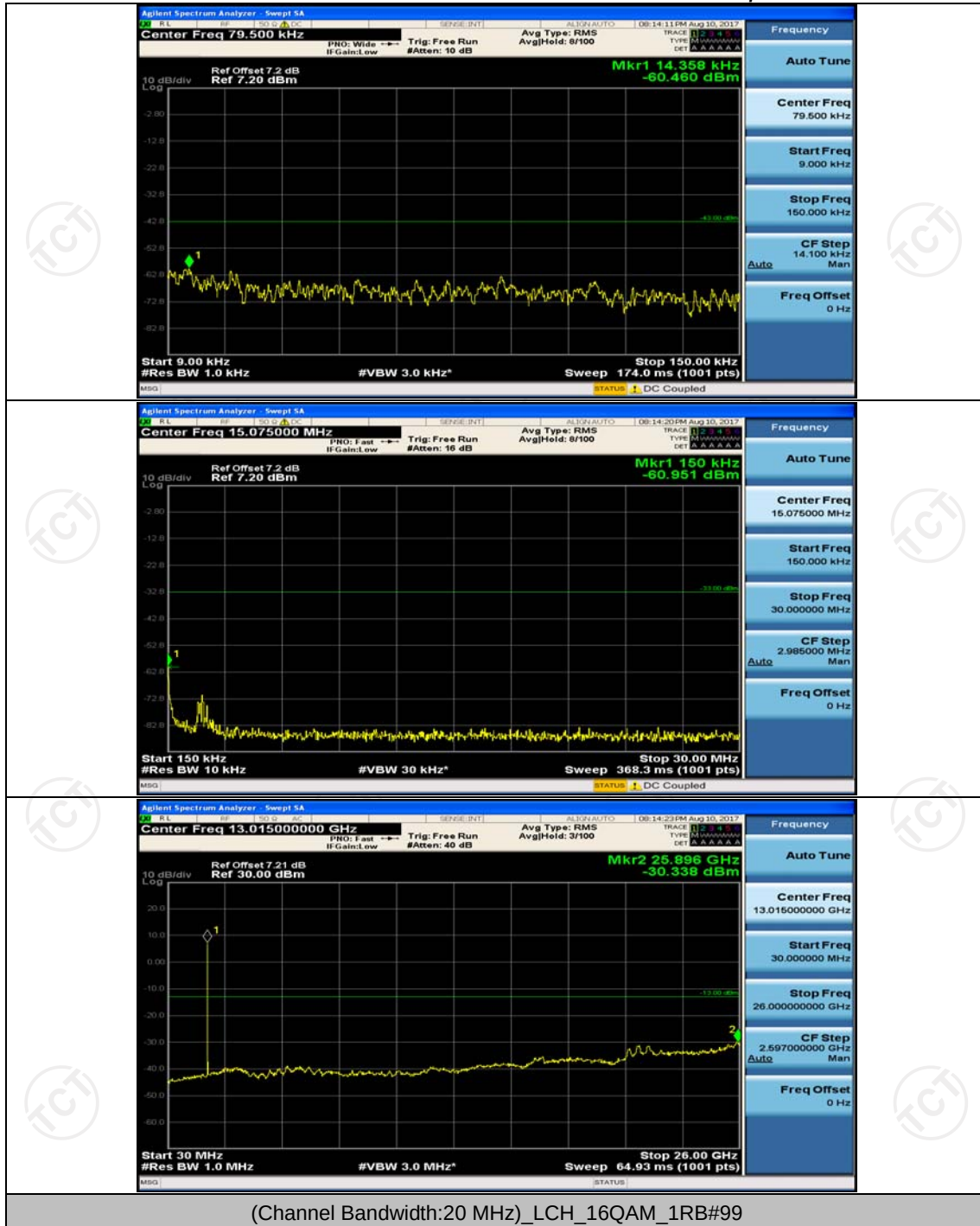


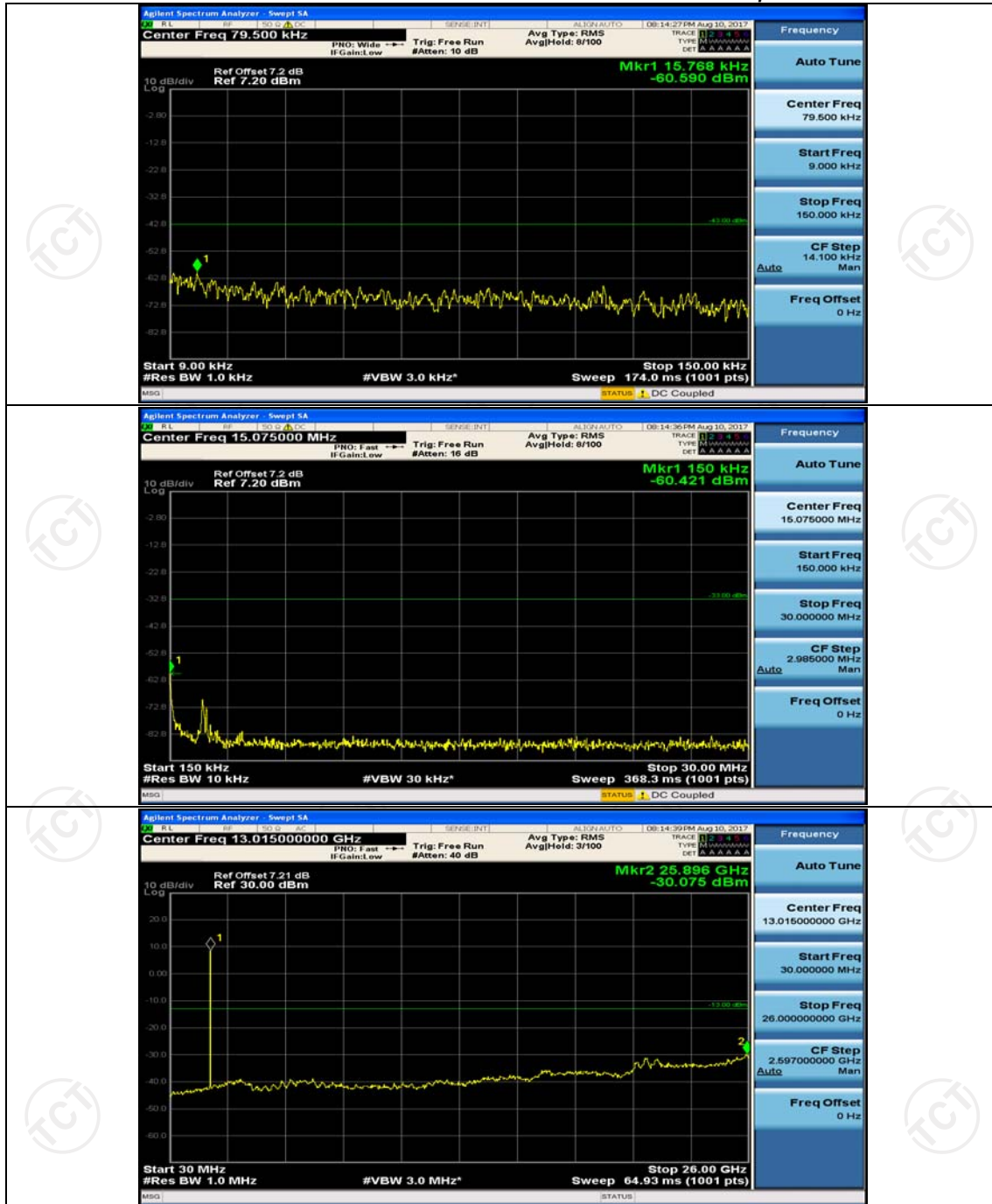




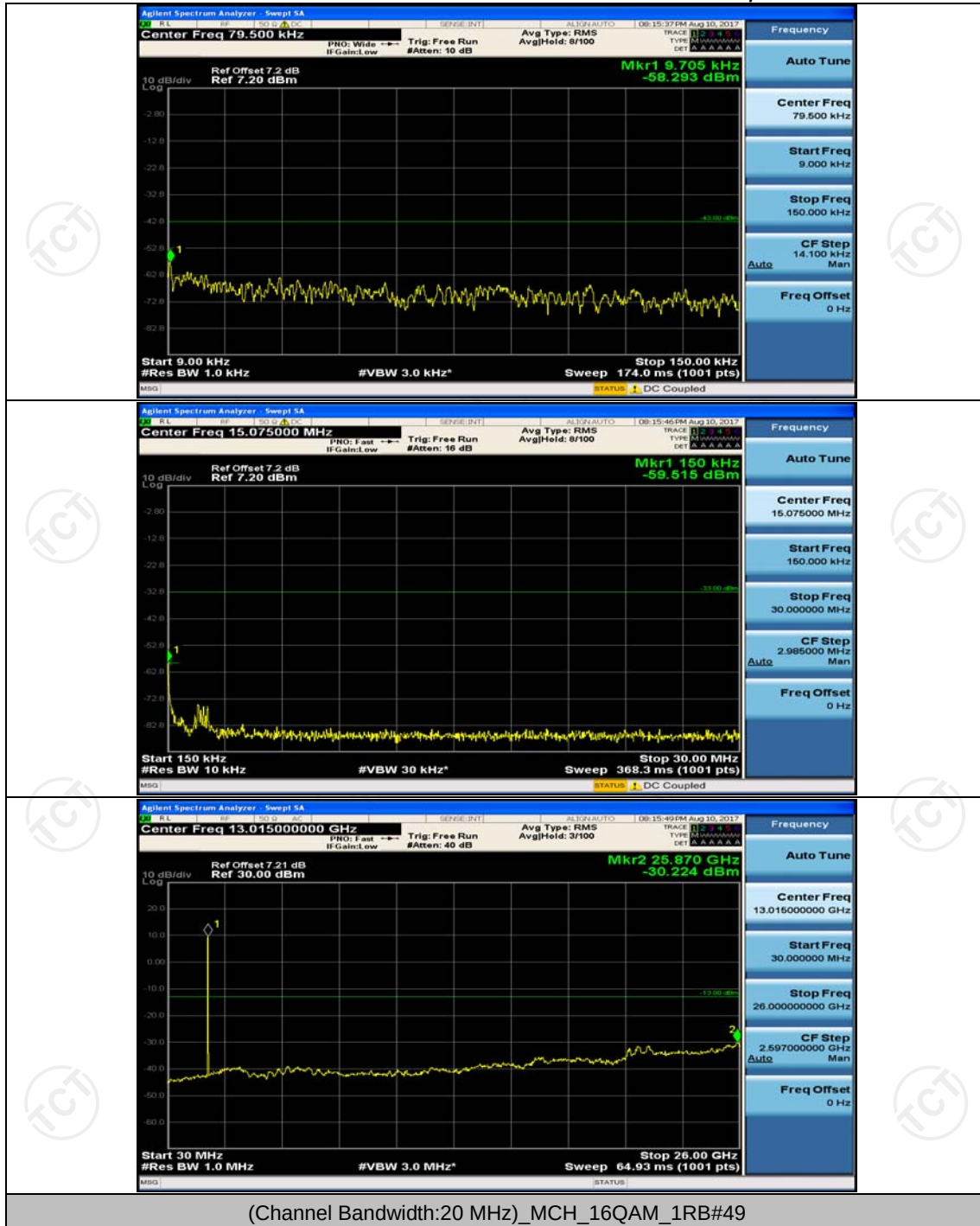
(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0

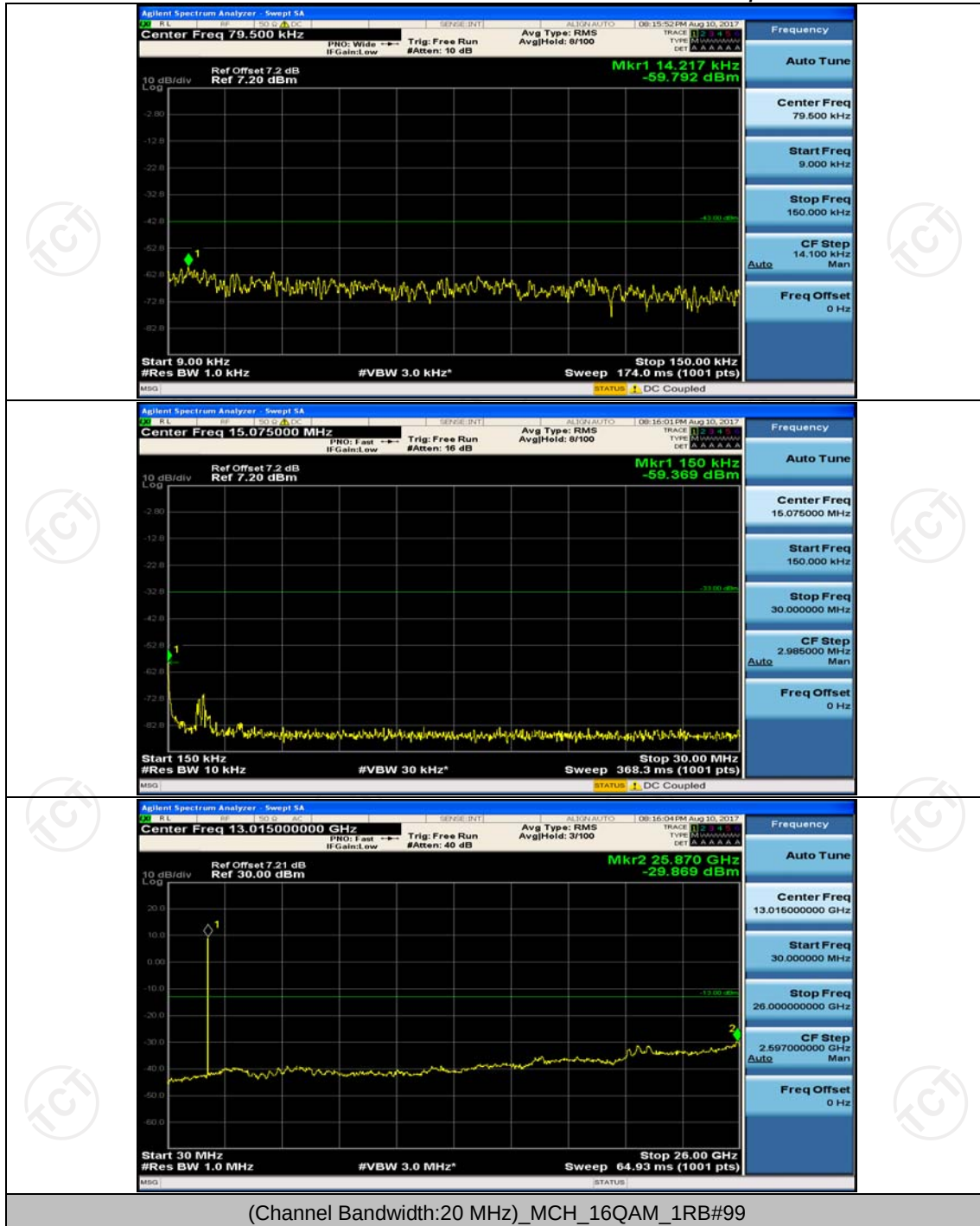


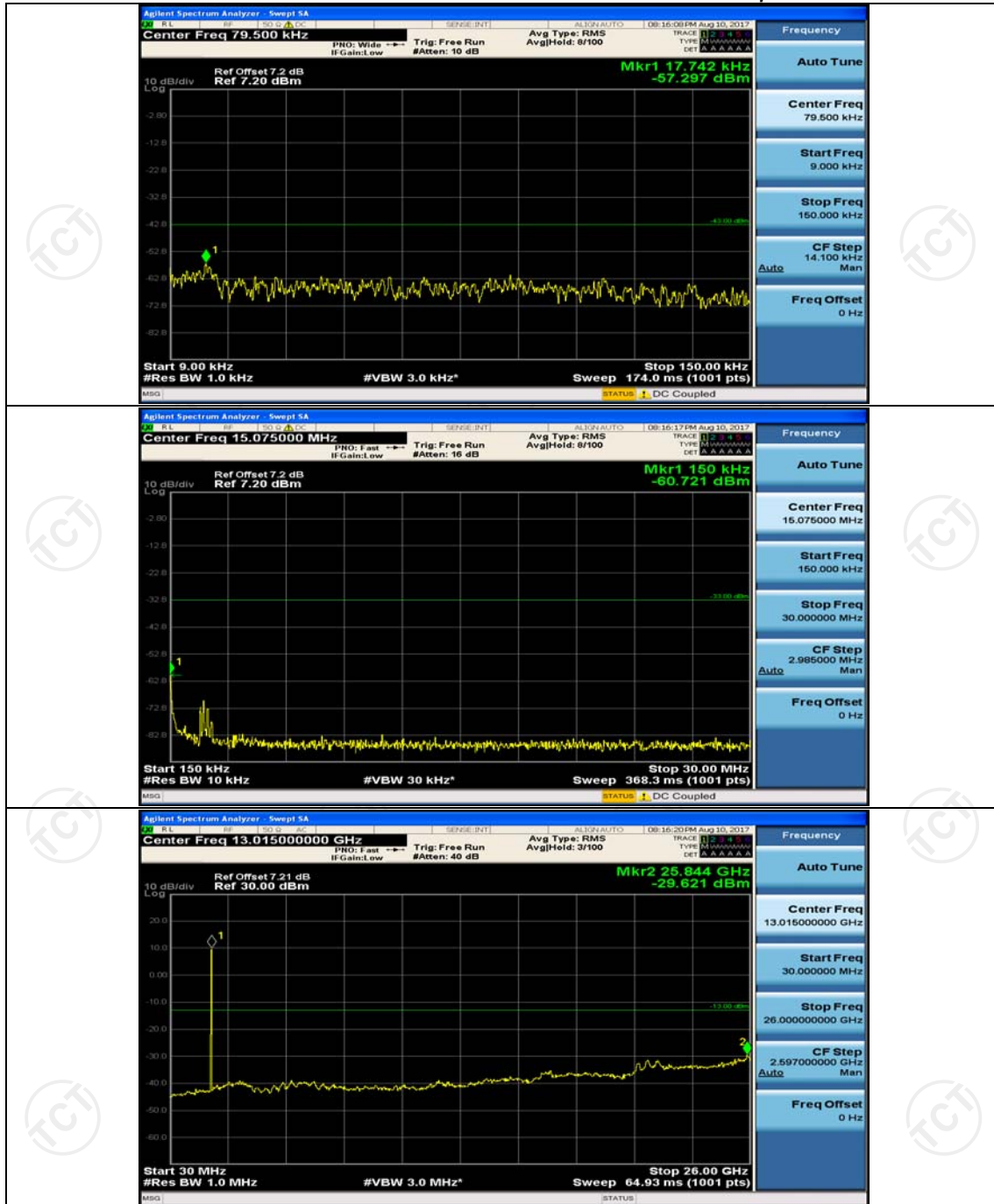




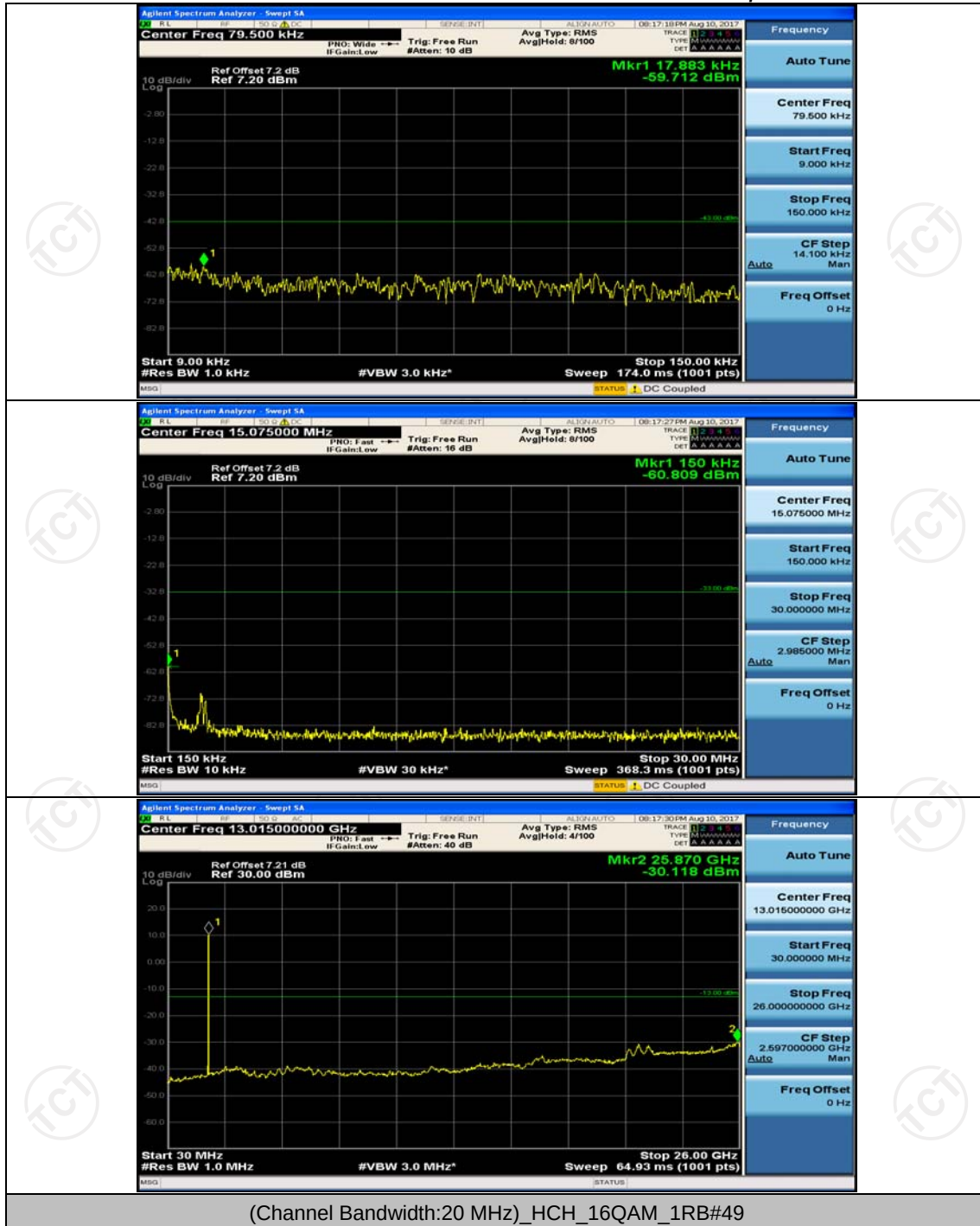
(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0

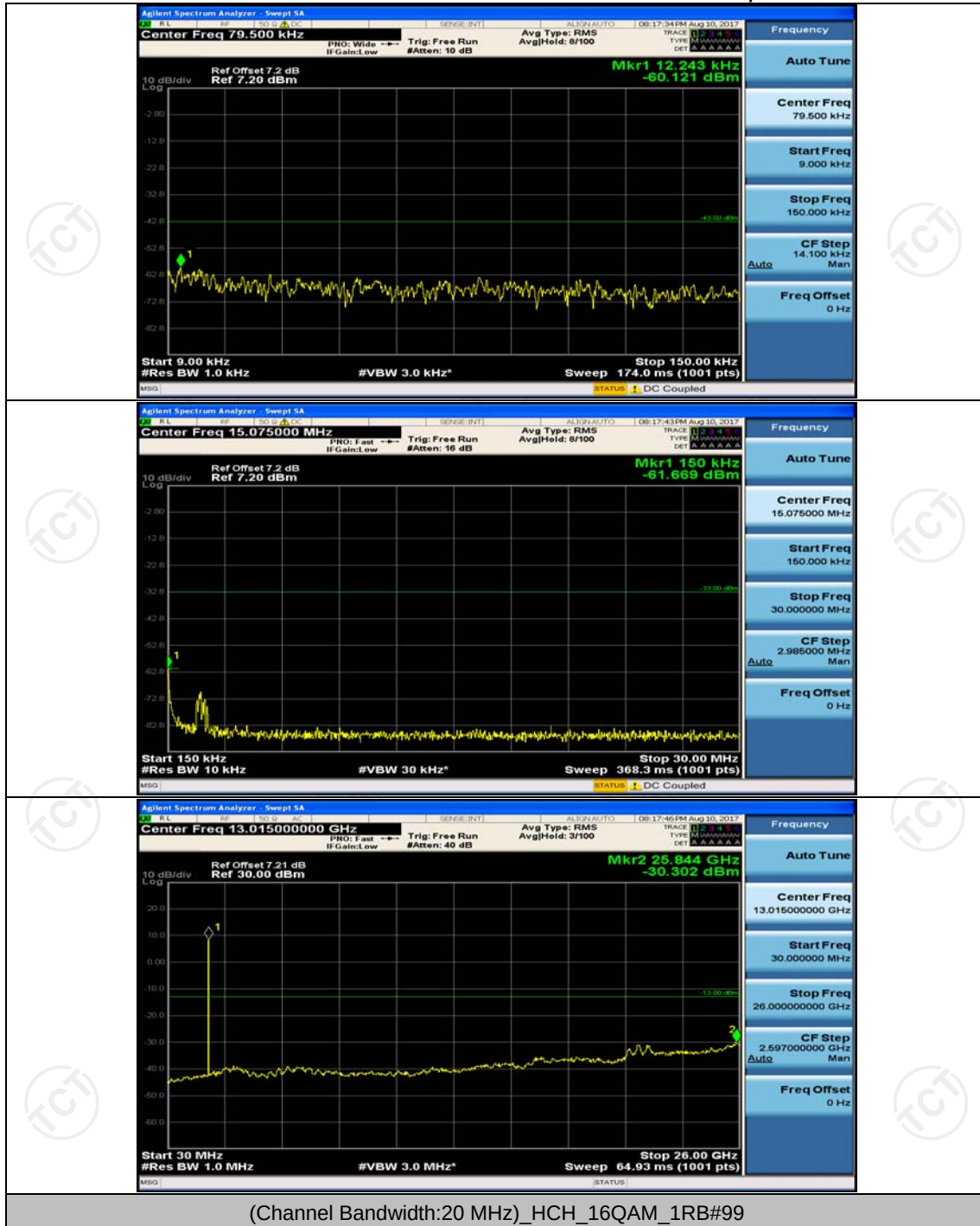


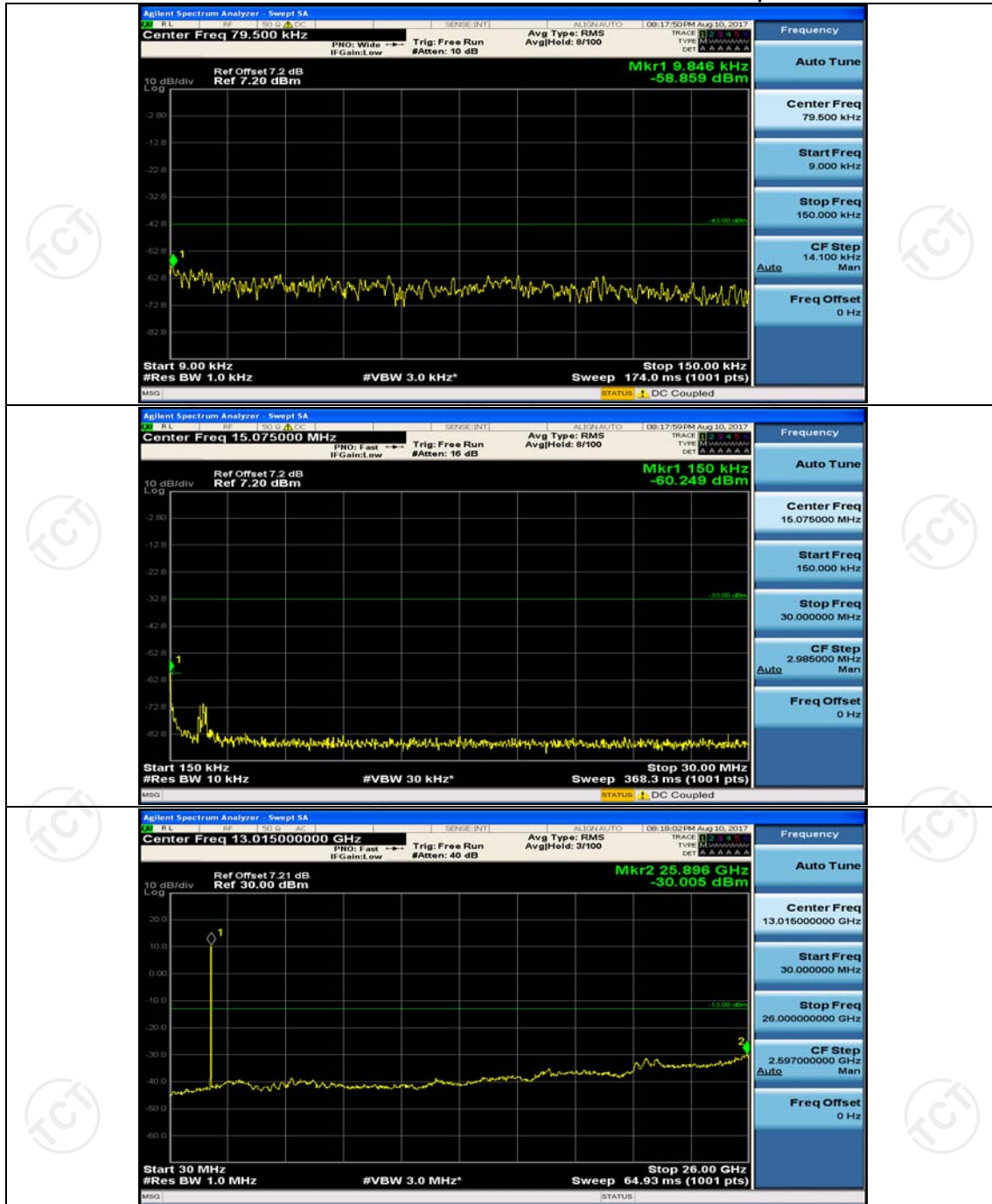




(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#0







## Appendix F: Frequency Stability

### Test Result

Channel Bandwidth: 10 MHz

| Bandwidth (MHz) : |             | 10MHz           | RB #:           | Full   |
|-------------------|-------------|-----------------|-----------------|--------|
| Limit (ppm) :     |             | 2.5ppm          | Channel:        | MCH    |
| Temperature (°C)  | Voltage (V) | Modulation      |                 | Result |
|                   |             | QPSK            | 16QAM           |        |
|                   |             | Deviation (ppm) | Deviation (ppm) |        |
| 50                | 120         | +0.013          | +0.013          | PASS   |
| 40                | 120         | +0.012          | +0.019          |        |
| 30                | 120         | +0.016          | +0.010          |        |
| 20                | 120         | -0.019          | -0.012          |        |
| 10                | 120         | +0.011          | +0.017          |        |
| 0                 | 120         | -0.016          | -0.013          |        |
| -10               | 120         | +0.015          | +0.010          |        |
| -20               | 120         | +0.013          | +0.011          |        |
| -30               | 120         | +0.015          | +0.016          |        |
| 20                | 240         | -0.016          | -0.011          | PASS   |
| 20                | 100         | +0.013          | +0.012          | PASS   |

Note: All bandwidth and modulation are tested, only the worst result is reported.

## Field Strength of Spurious Radiation Measurement

### Test Result

| <b>Bandwidth:</b>  | <b>10M</b>                                                                       |             | <b>Test channel:</b>      | <b>Lowest</b>  |
|--------------------|----------------------------------------------------------------------------------|-------------|---------------------------|----------------|
| <b>Modulation:</b> | <b>QPSK</b>                                                                      |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3701.4             | Vertical                                                                         | -51.16      | -13.00                    | PASS           |
| 5552.1             | V                                                                                | -55.24      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3701.4             | Horizontal                                                                       | -54.17      |                           |                |
| 5552.1             | H                                                                                | -52.85      |                           |                |
| -                  | H                                                                                | -           |                           |                |
| <b>Bandwidth:</b>  | <b>10M</b>                                                                       |             | <b>Test channel:</b>      | <b>Middle</b>  |
| <b>Modulation:</b> | <b>QPSK</b>                                                                      |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3760.0             | Vertical                                                                         | -52.67      | -13.00                    | PASS           |
| 5640.0             | V                                                                                | -54.39      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3760.0             | Horizontal                                                                       | -50.59      |                           |                |
| 5640.0             | H                                                                                | -57.92      |                           |                |
| -                  | H                                                                                | -           |                           |                |
| <b>Bandwidth:</b>  | <b>10M</b>                                                                       |             | <b>Test channel:</b>      | <b>Highest</b> |
| <b>Modulation:</b> | <b>QPSK</b>                                                                      |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3818.6             | Vertical                                                                         | -50.80      | -13.00                    | PASS           |
| 5727.9             | V                                                                                | -53.52      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3818.6             | Horizontal                                                                       | -52.15      |                           |                |
| 5727.9             | H                                                                                | -53.55      |                           |                |
| -                  | H                                                                                | -           |                           |                |

| <b>Bandwidth:</b>  | <b>10M</b>                                                                       |             | <b>Test channel:</b>      | <b>Lowest</b>  |
|--------------------|----------------------------------------------------------------------------------|-------------|---------------------------|----------------|
| <b>Modulation:</b> | <b>16QAM</b>                                                                     |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3701.4             | Vertical                                                                         | -52.18      | -13.00                    | PASS           |
| 5552.1             | V                                                                                | -56.88      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3701.4             | Horizontal                                                                       | -53.49      |                           |                |
| 5552.1             | H                                                                                | -55.12      |                           |                |
| -                  | H                                                                                | -           |                           |                |
| <b>Bandwidth:</b>  | <b>10M</b>                                                                       |             | <b>Test channel:</b>      | <b>Middle</b>  |
| <b>Modulation:</b> | <b>QPSK</b>                                                                      |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3760.0             | Vertical                                                                         | -51.56      | -13.00                    | PASS           |
| 5640.0             | V                                                                                | -56.42      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3760.0             | Horizontal                                                                       | -52.86      |                           |                |
| 5640.0             | H                                                                                | -55.39      |                           |                |
| -                  | H                                                                                | -           |                           |                |
| <b>Bandwidth:</b>  | <b>10M</b>                                                                       |             | <b>Test channel:</b>      | <b>Highest</b> |
| <b>Modulation:</b> | <b>QPSK</b>                                                                      |             | <b>Temperature :</b>      | <b>23~24°C</b> |
| <b>RB #:</b>       | <b>1</b>                                                                         |             | <b>Relative Humidity:</b> | <b>46~48%</b>  |
| <b>Note:</b>       | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |             |                           |                |
| Frequency (MHz)    | Spurious Emission                                                                |             | Limit (dBm)               | Result         |
|                    | Polarization                                                                     | Level (dBm) |                           |                |
| 3818.6             | Vertical                                                                         | -51.51      | -13.00                    | PASS           |
| 5727.9             | V                                                                                | -54.65      |                           |                |
| -                  | V                                                                                | -           |                           |                |
| 3818.6             | Horizontal                                                                       | -52.33      |                           |                |
| 5727.9             | H                                                                                | -55.95      |                           |                |
| -                  | H                                                                                | -           |                           |                |

Note: All bandwidth and modulation are tested, only the worst result is reported.