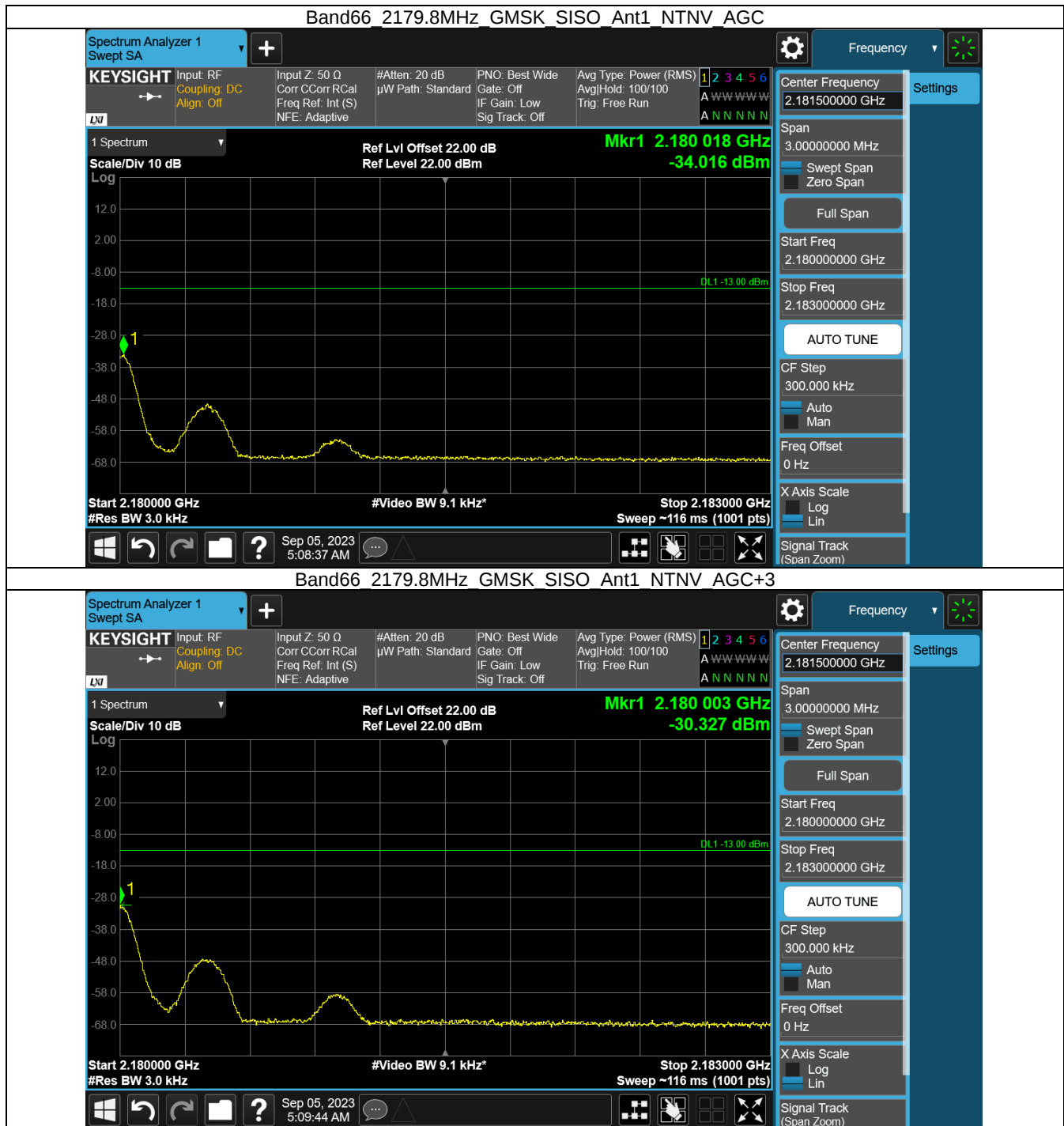
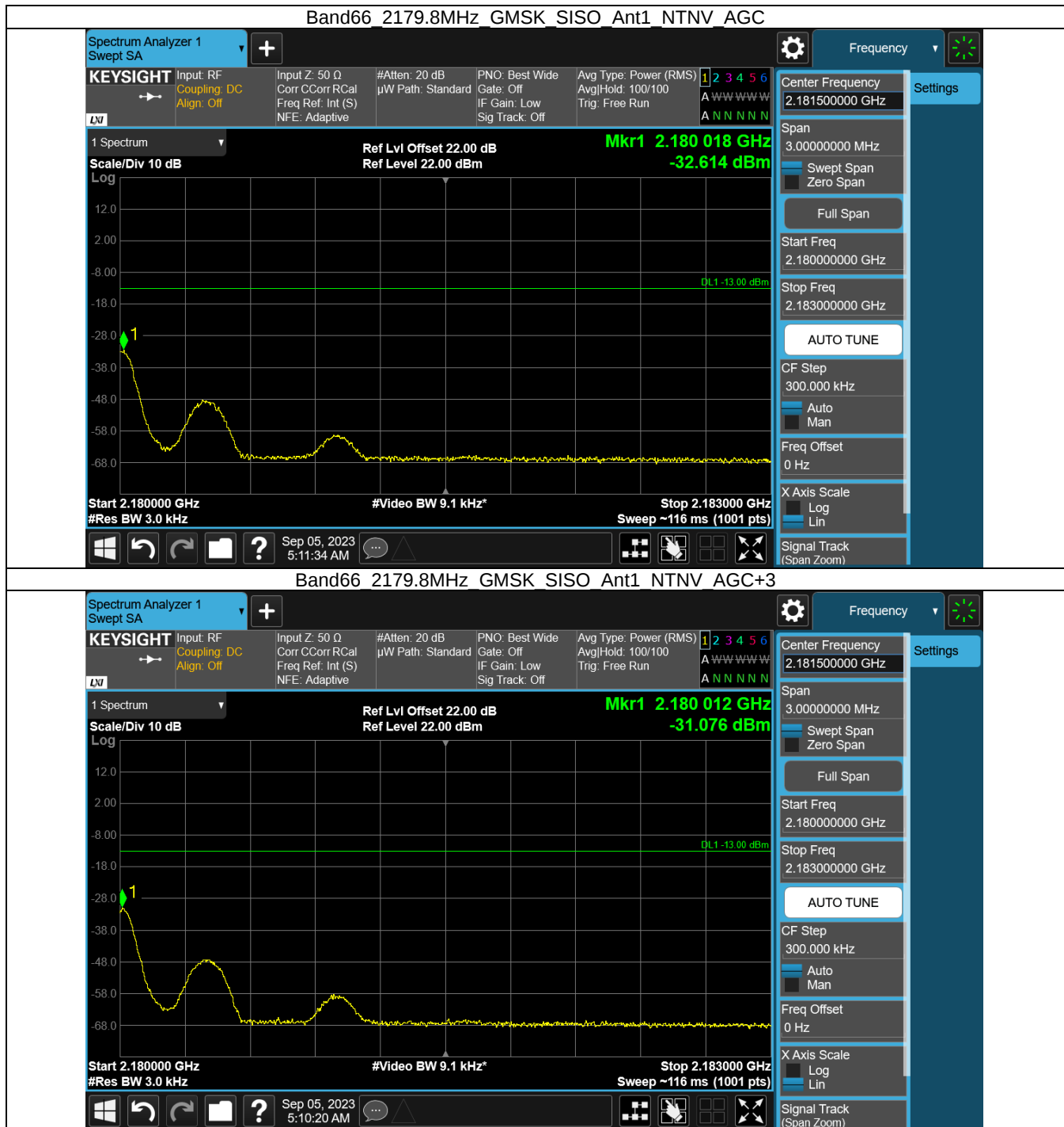






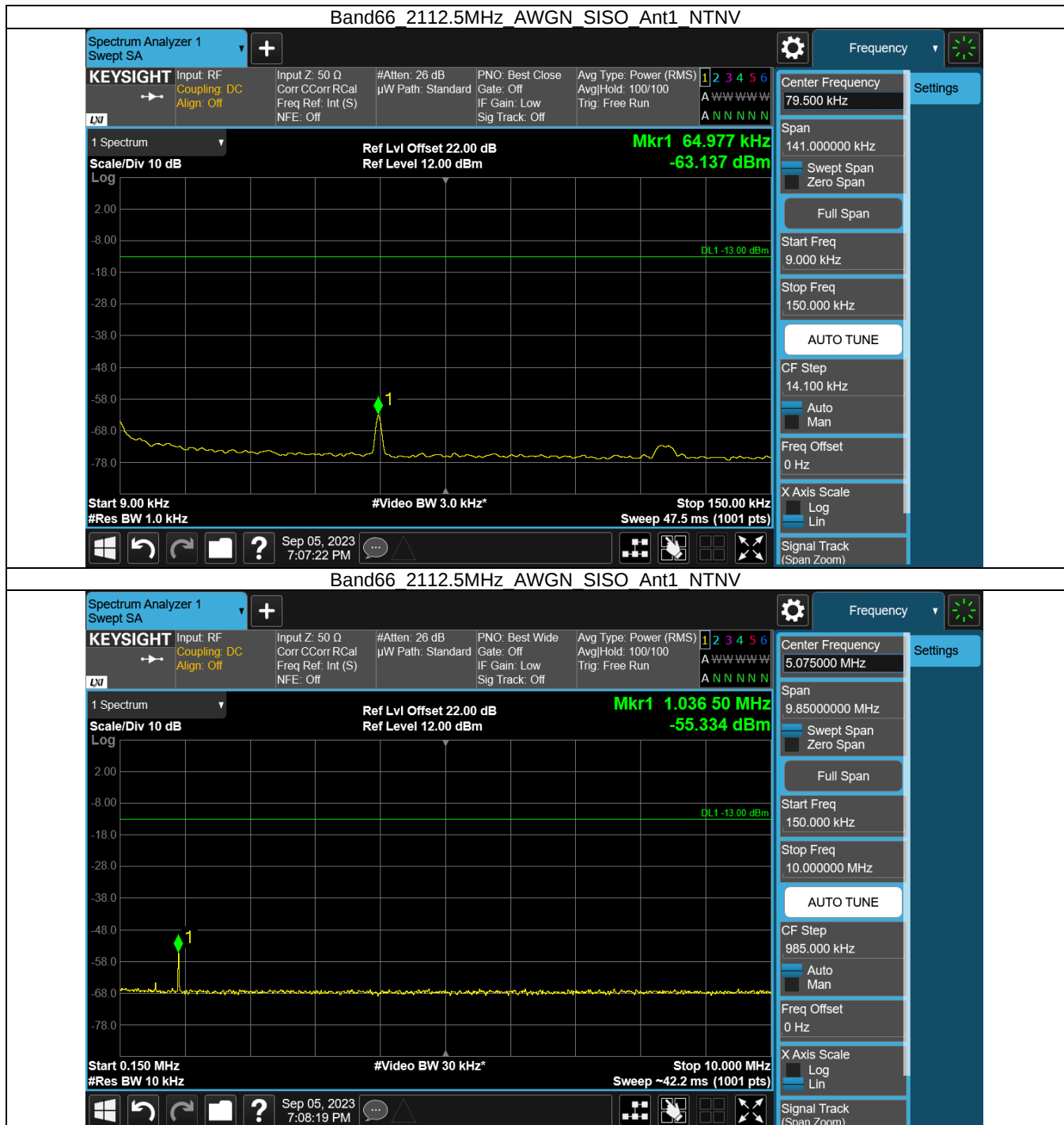
## 6. Spurious emissions

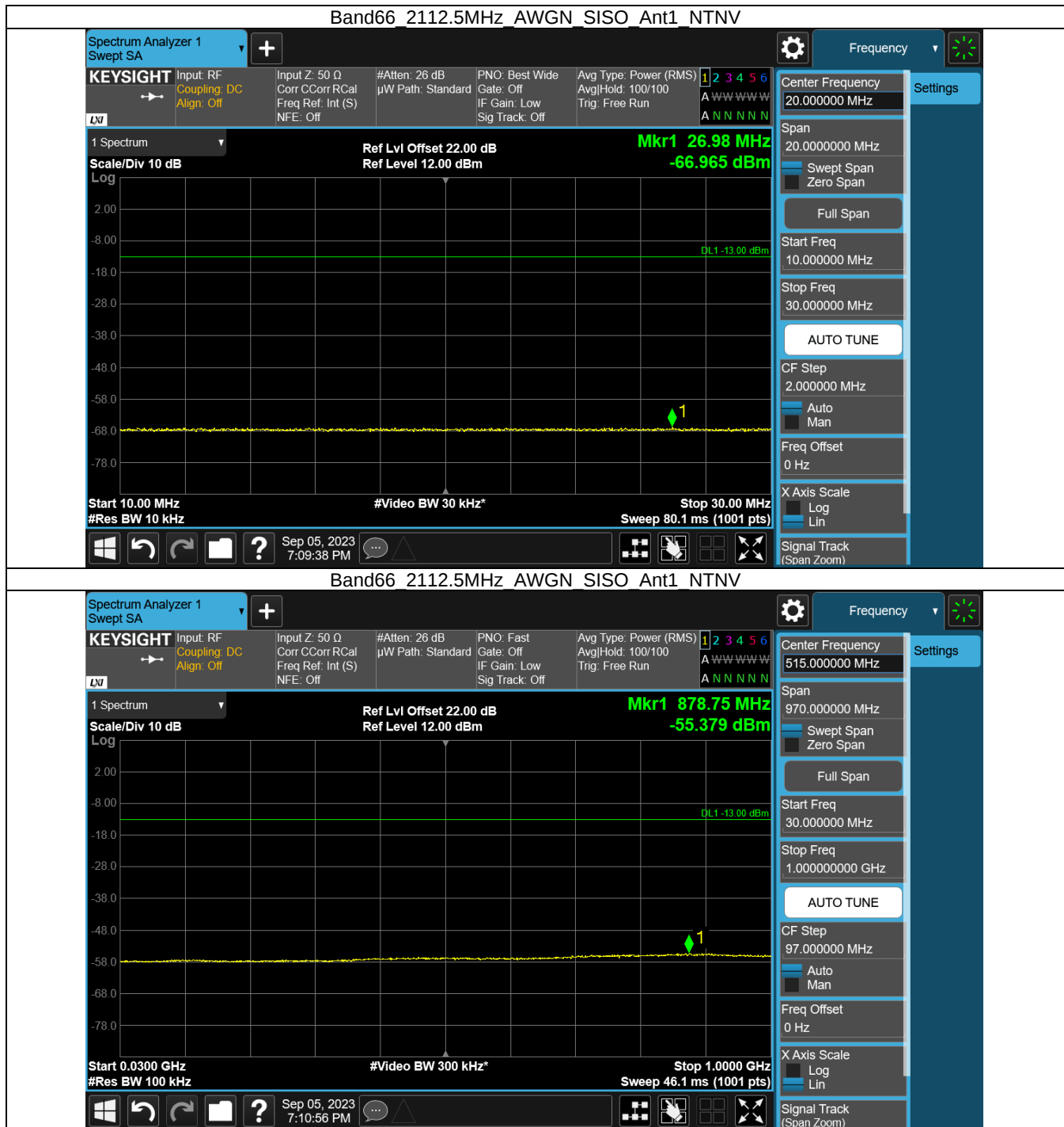
### 6.1 Band66

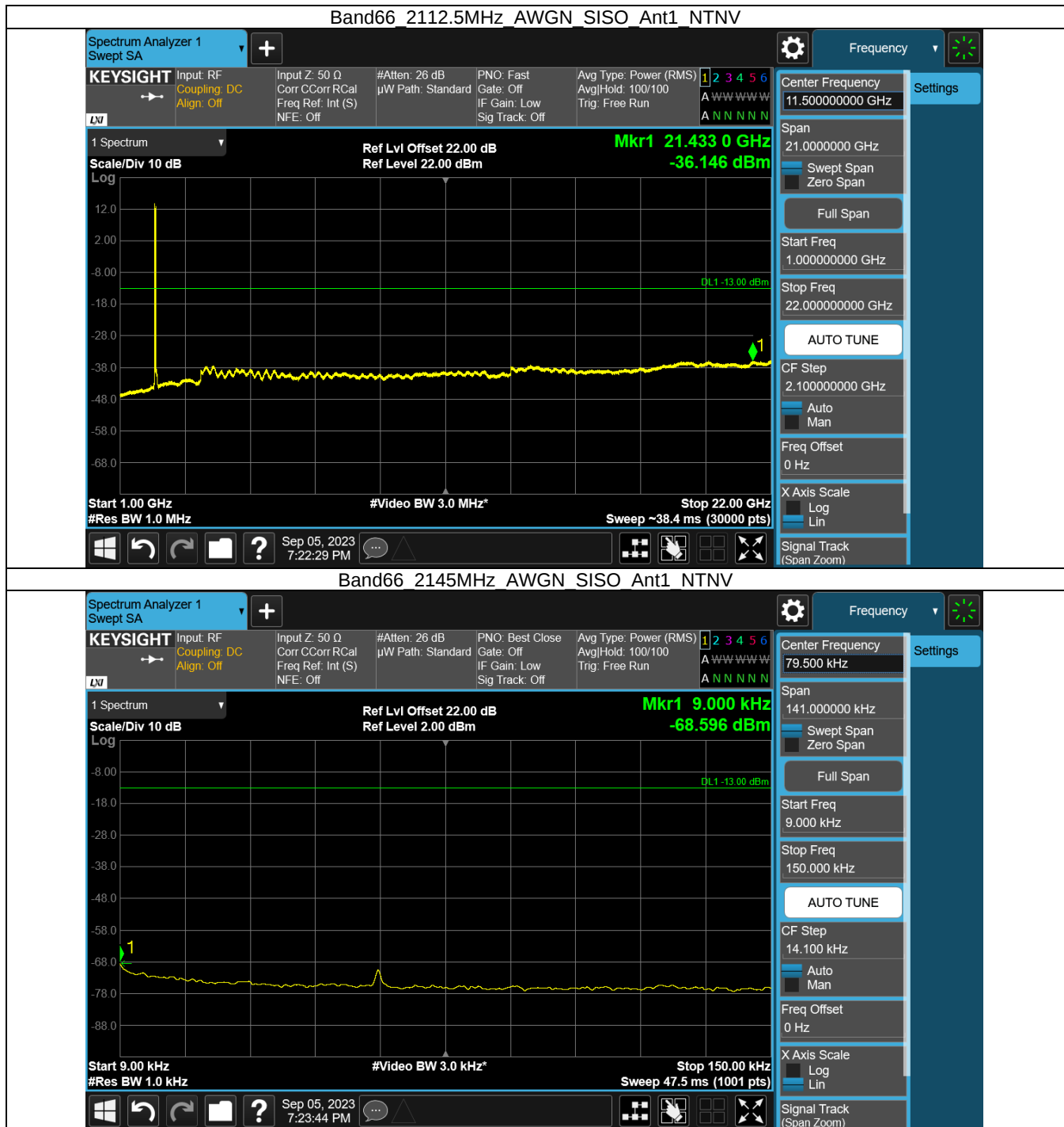
#### 6.1.1 Test Result

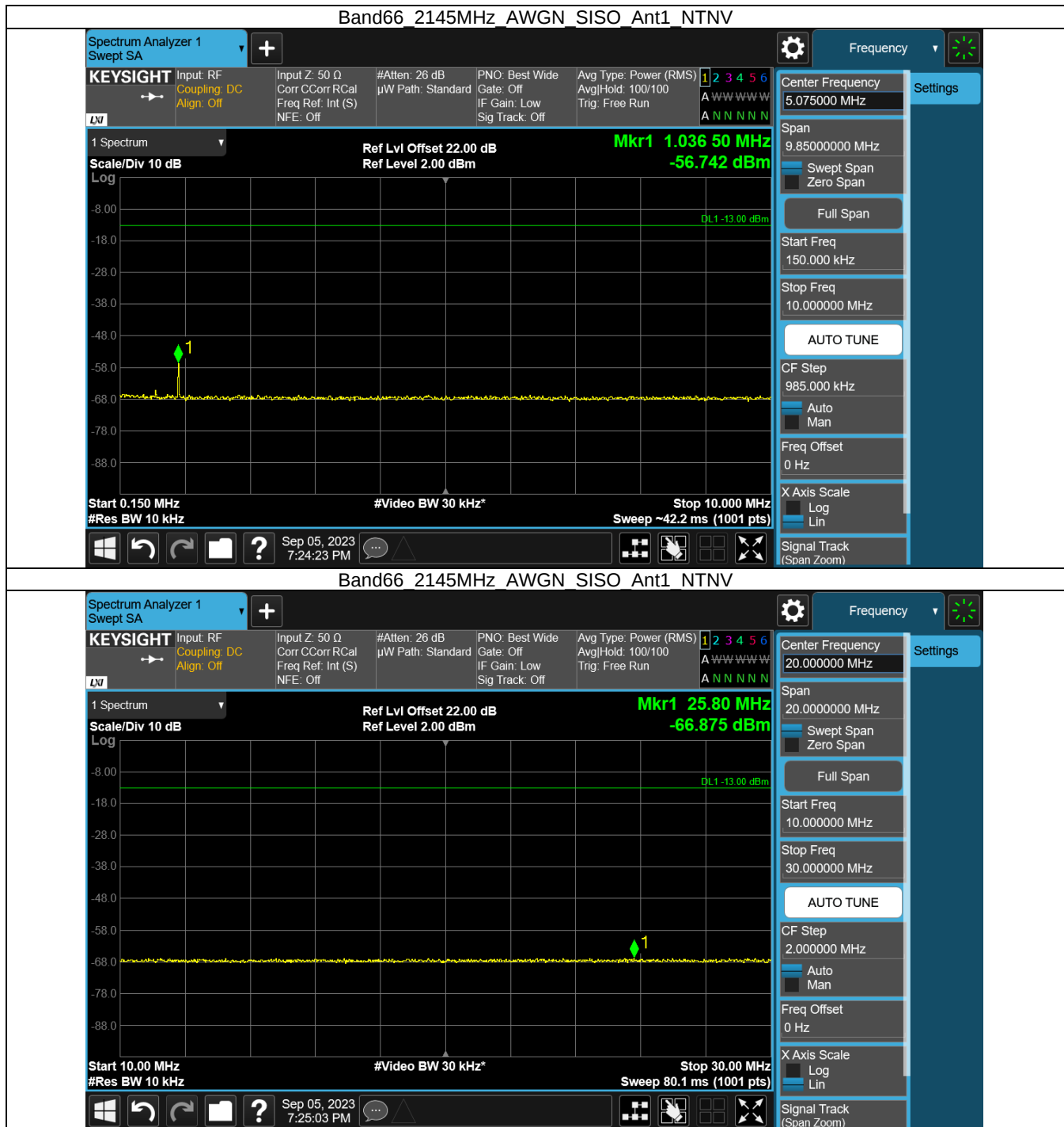
| Band: 66 / NTNV |             |                 |         |         |     |                     |       |         |
|-----------------|-------------|-----------------|---------|---------|-----|---------------------|-------|---------|
| Signal          |             |                 | Channel | TX Type | ANT | SE (dBm)            |       | Verdict |
| Type            | Level (dBm) | Frequency (MHz) |         |         |     | Result              | Limit |         |
| AWGN            | -3          | 2112.5          | LCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |
|                 |             | 2145            | MCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |
|                 |             | 2177.5          | HCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |
| GMSK            | -3          | 2110.2          | LCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |
|                 |             | 2145            | MCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |
|                 |             | 2179.8          | HCH     | SISO    | 1   | Refer To Test Graph |       | Pass    |

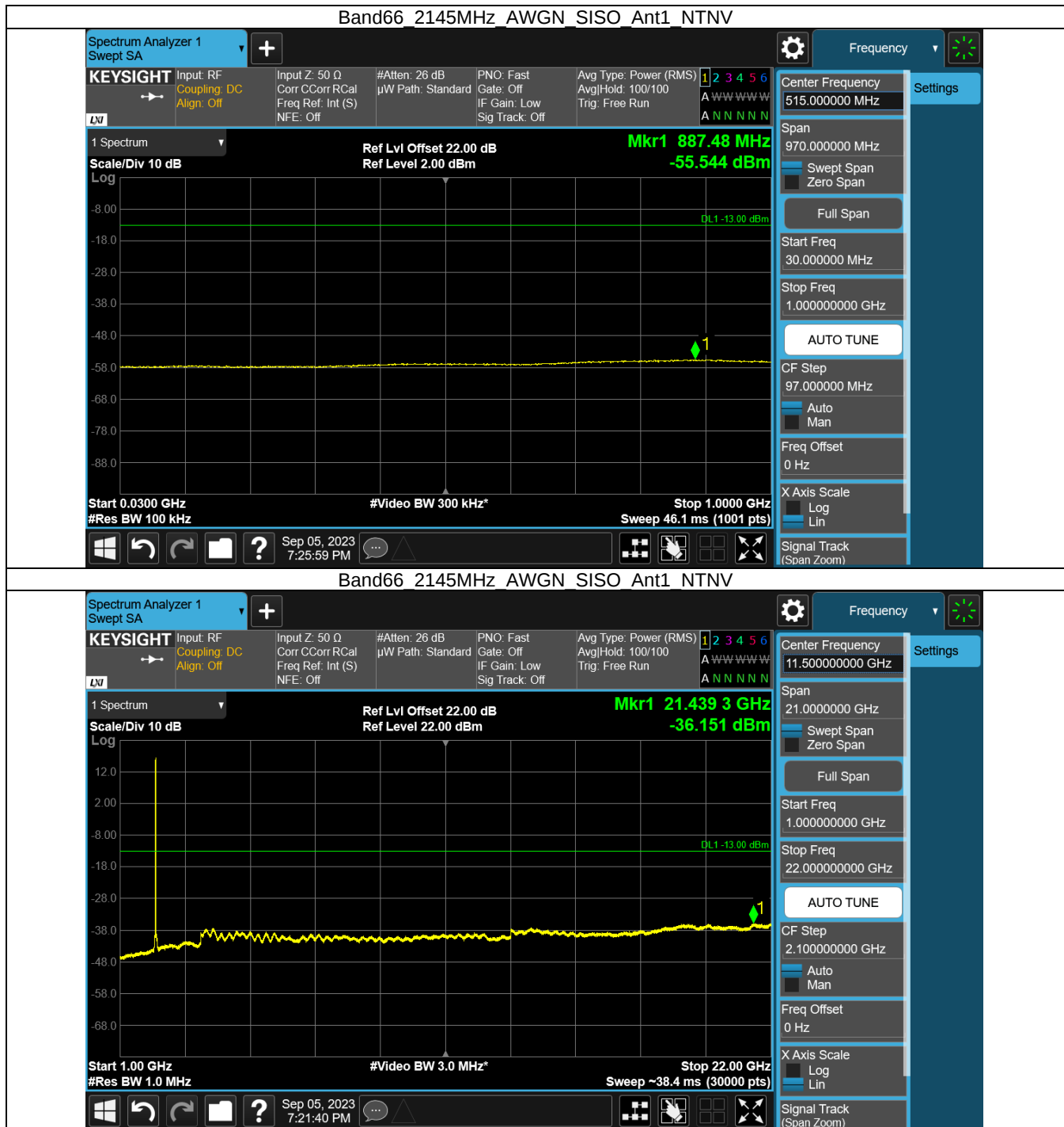
## 6.1.2 Test Graph



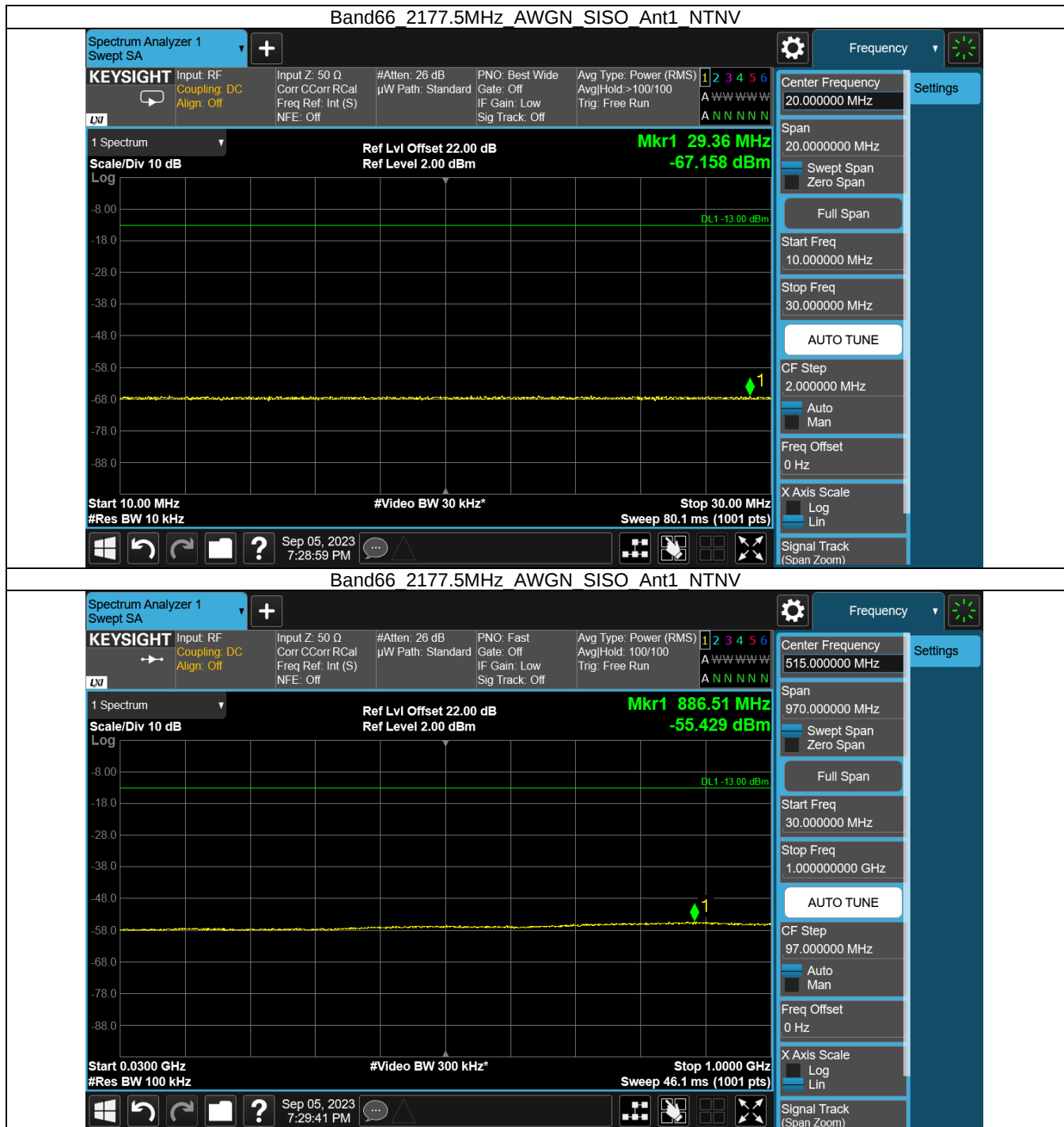


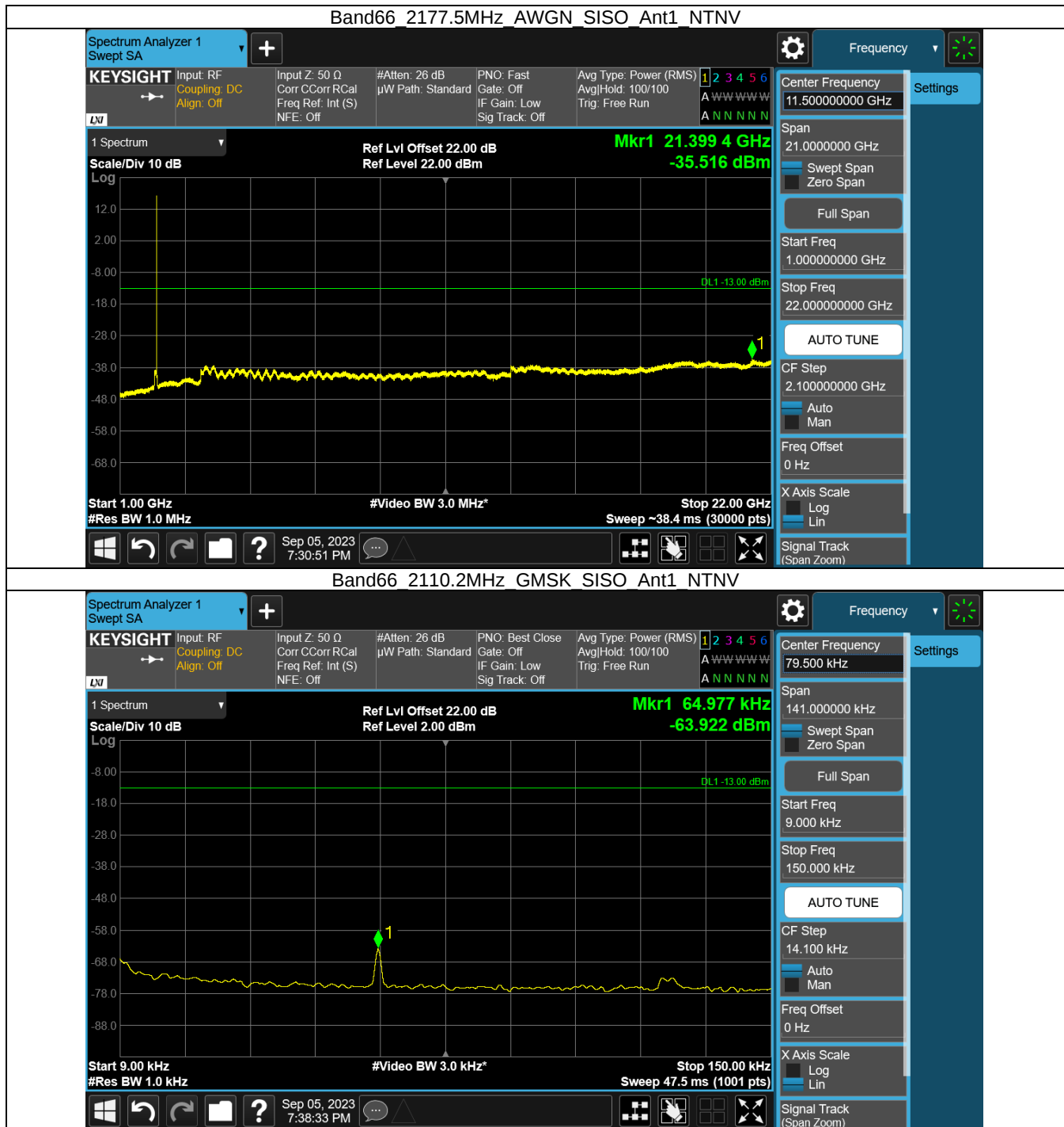


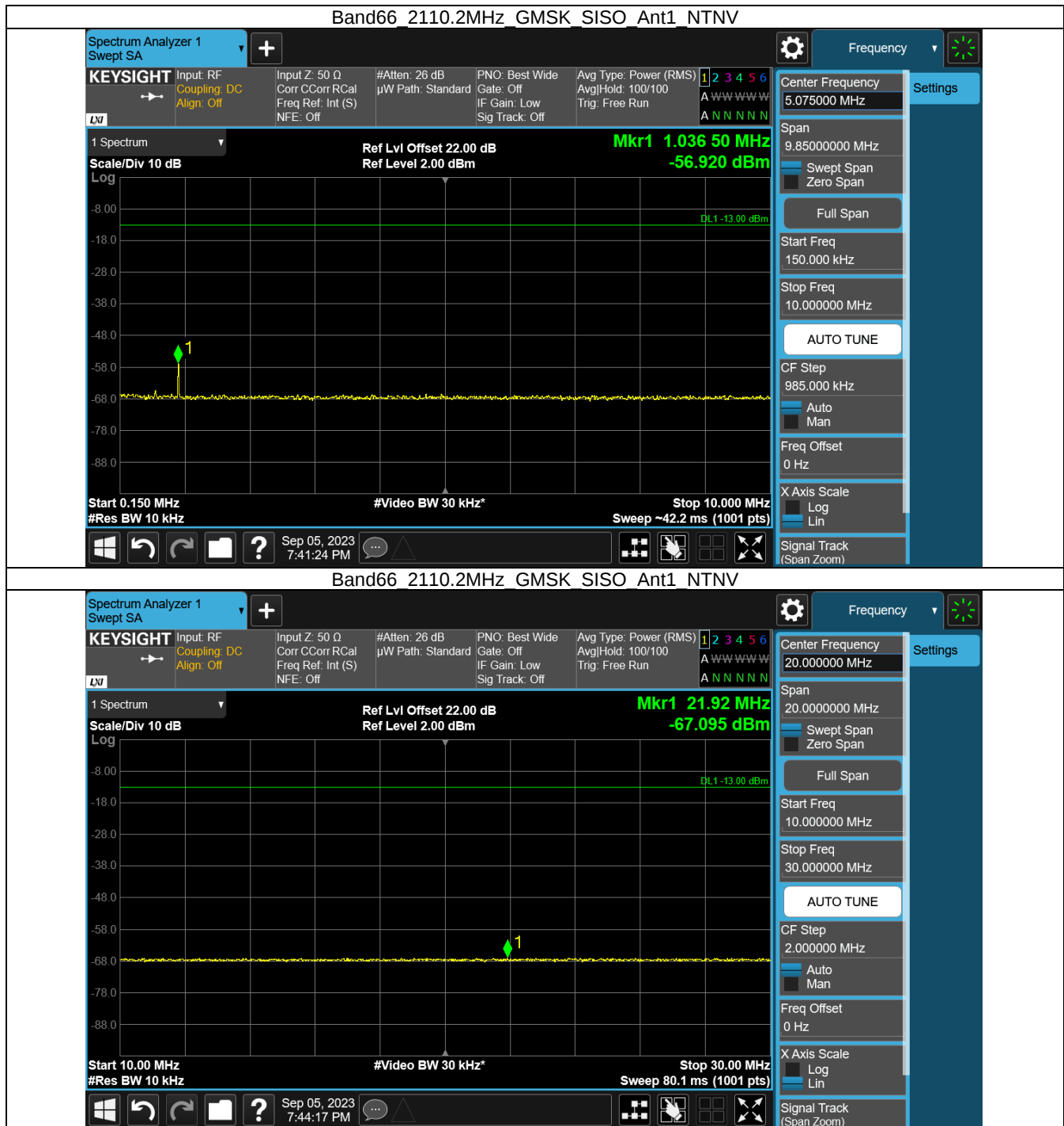


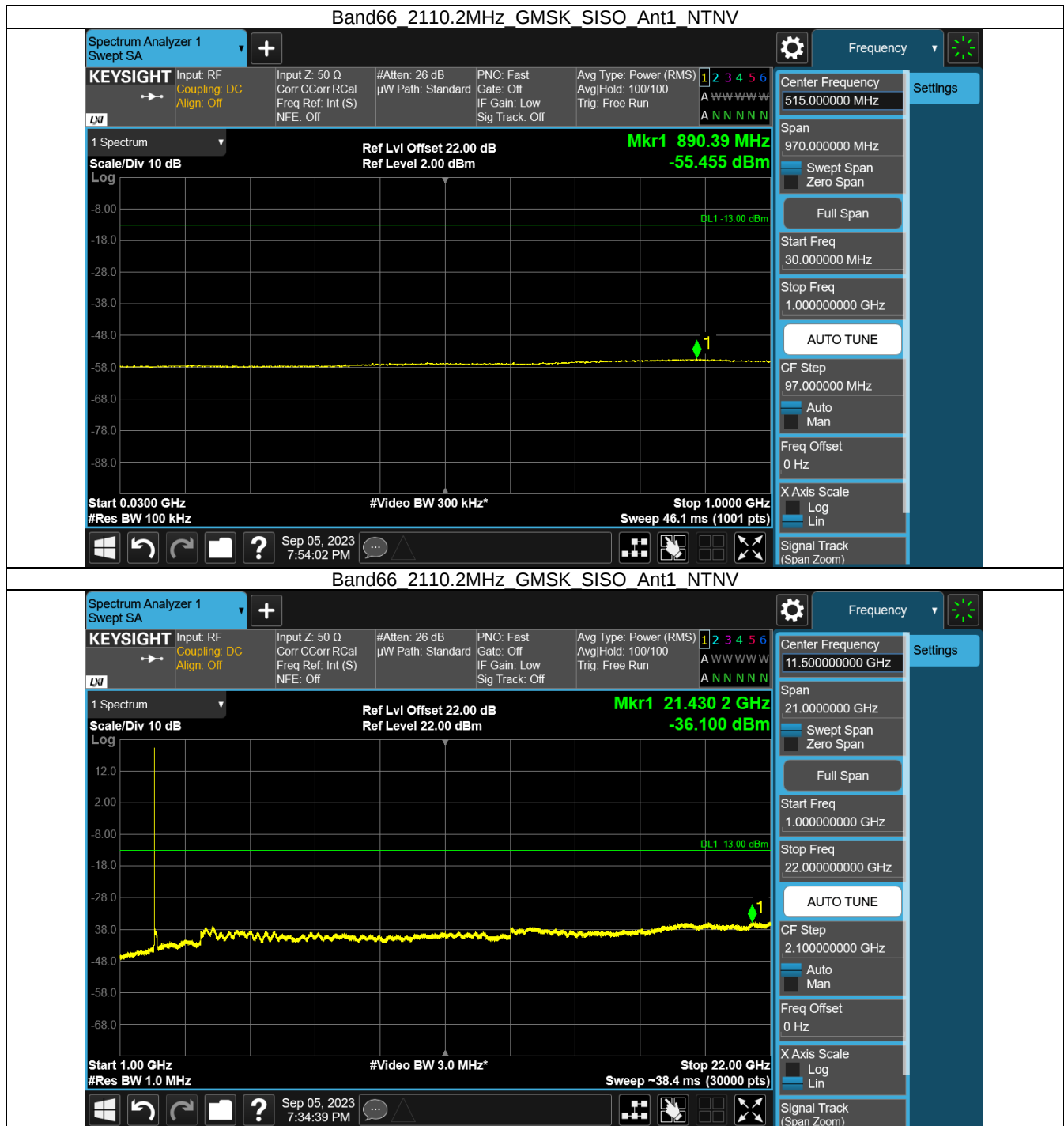


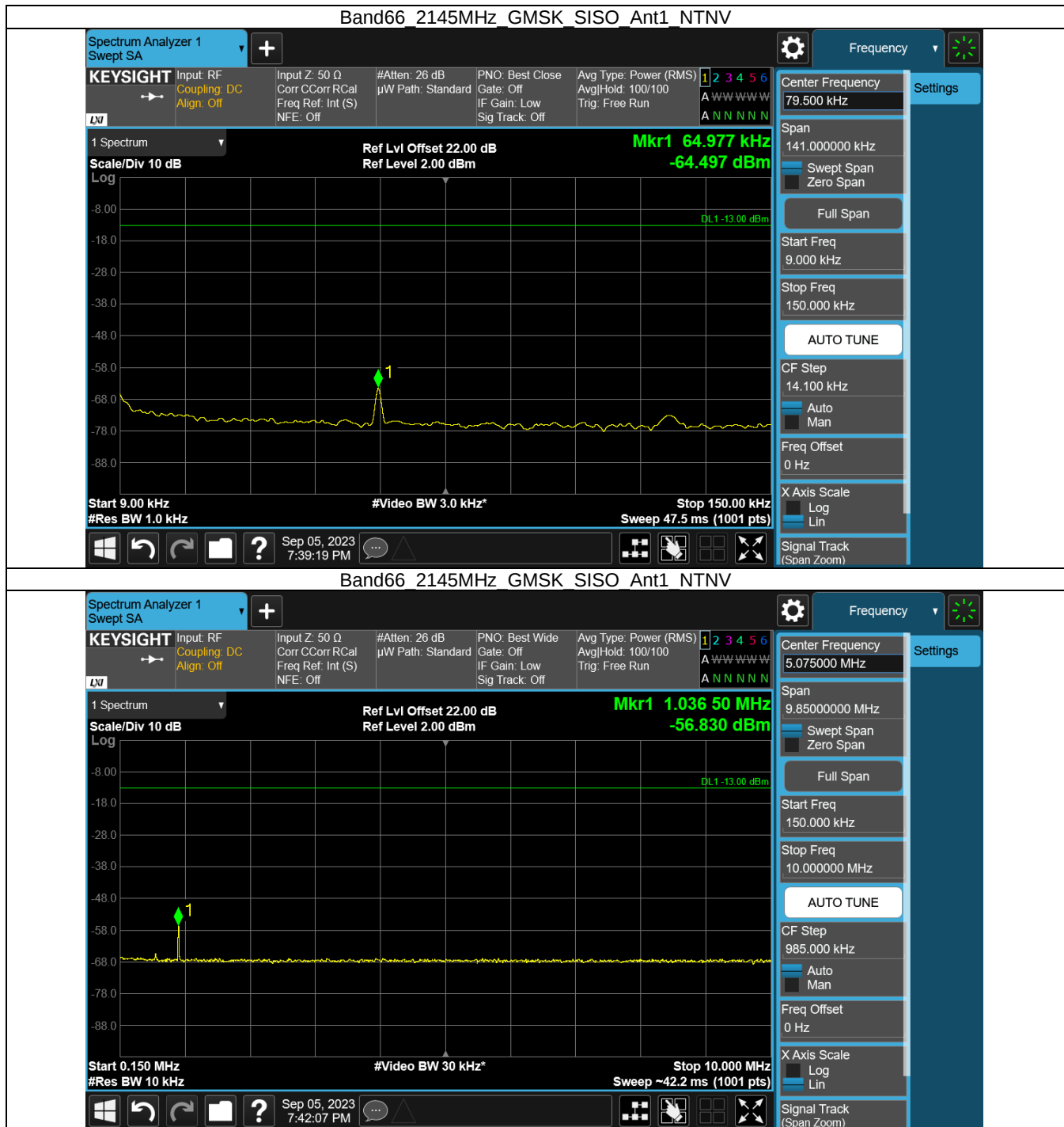




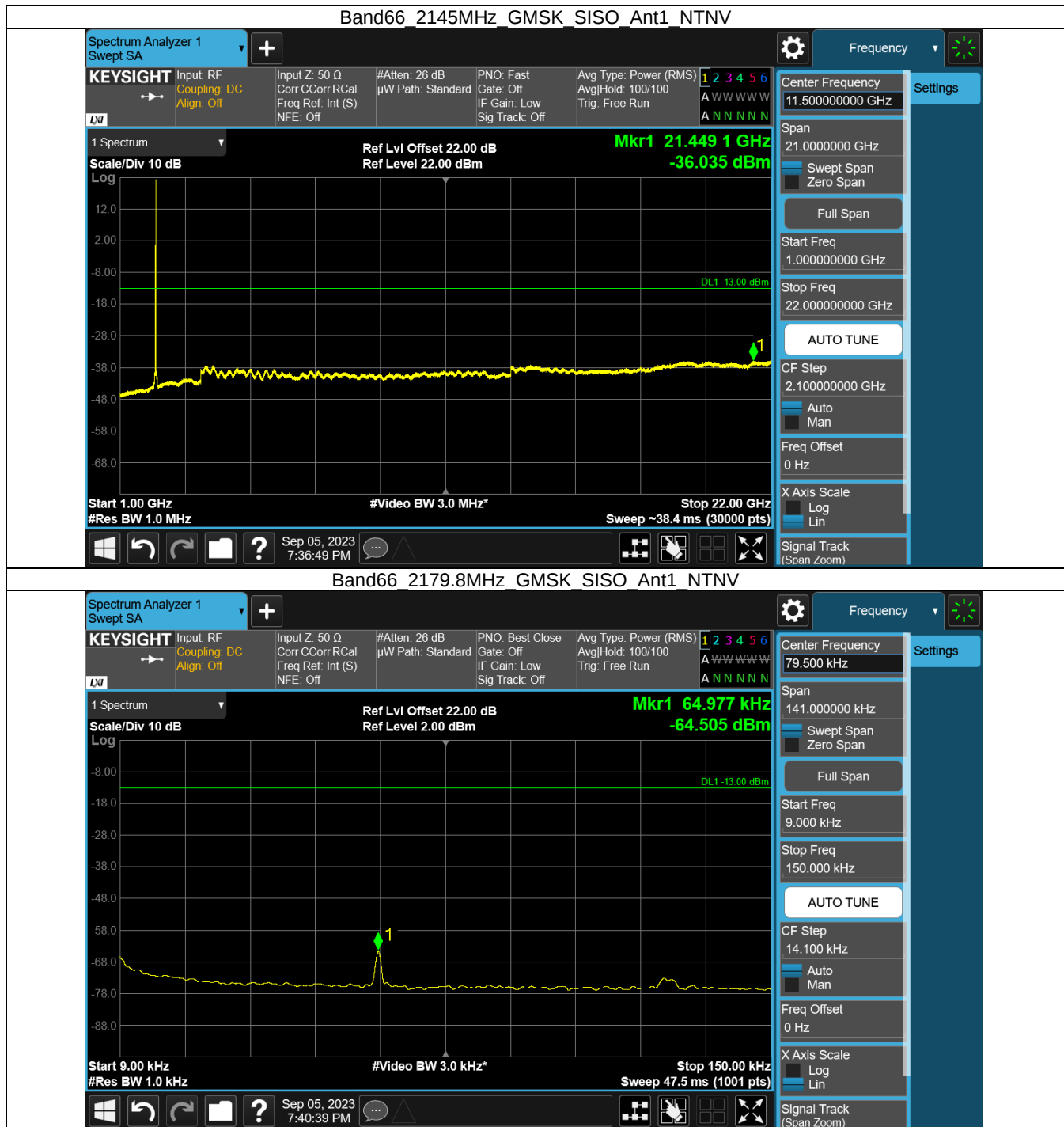


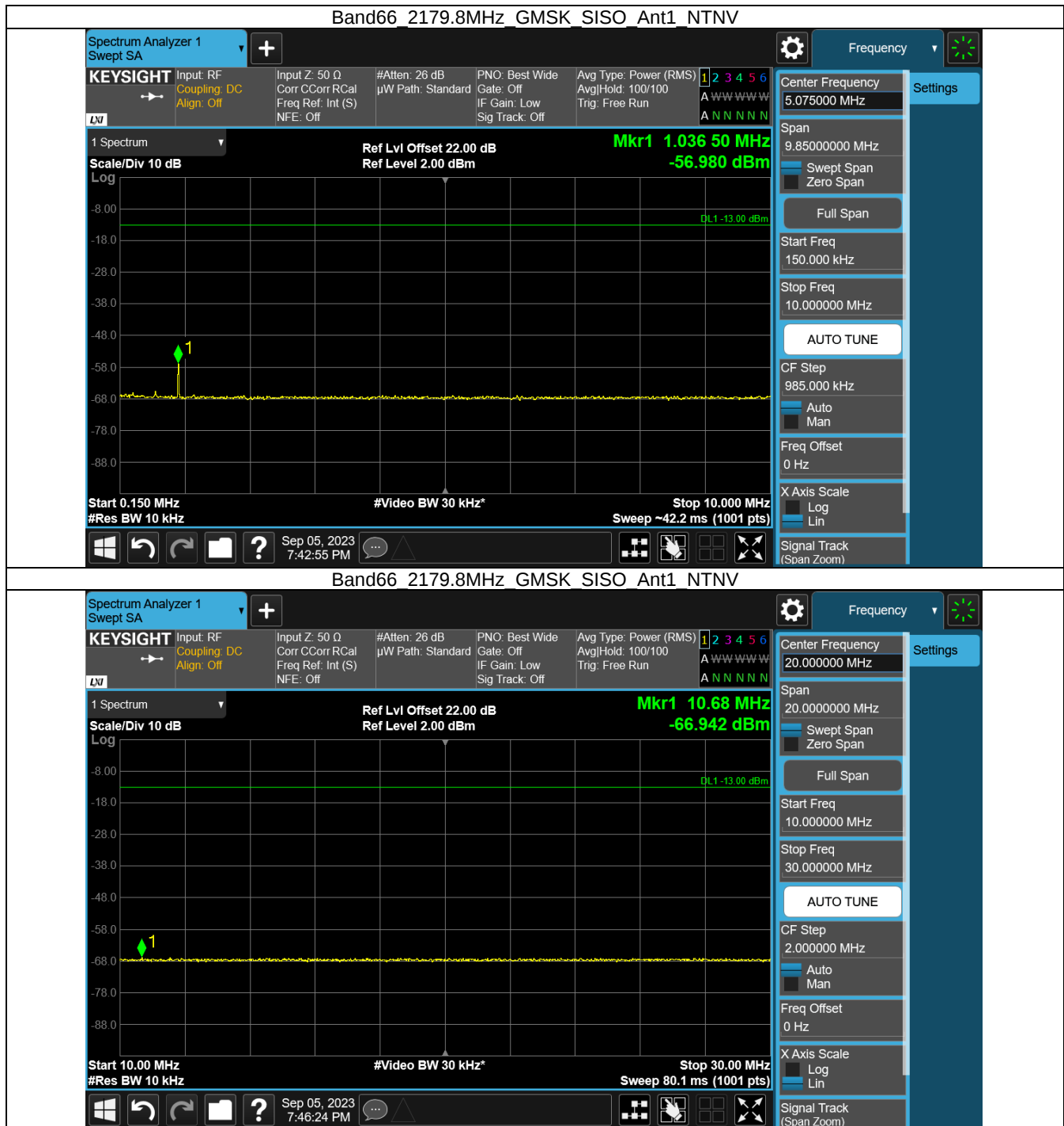


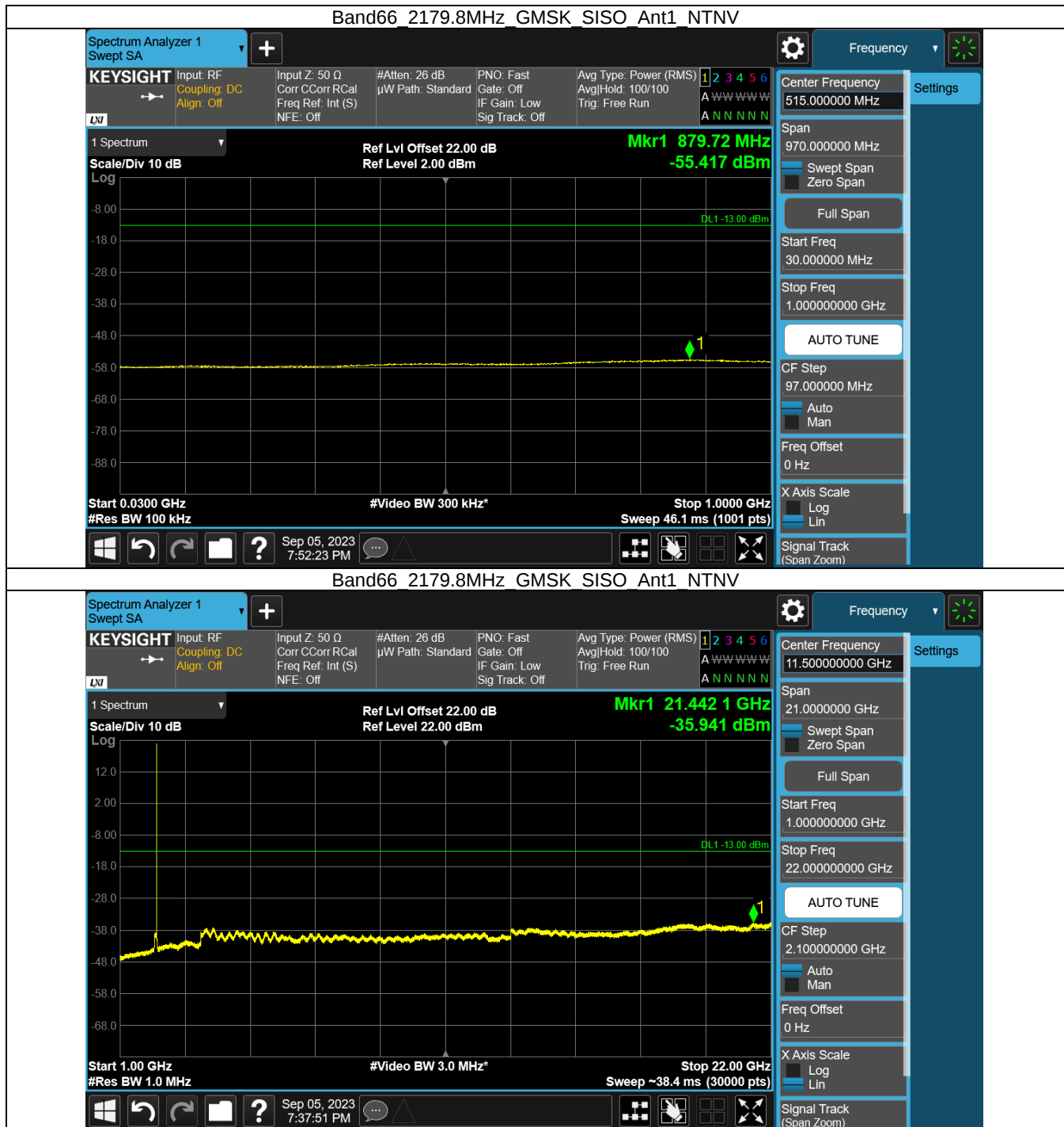












## 7. Frequency stability measurements

### 7.1 Band66\_Ant1

#### 7.1.1 Test Result

| Band: 66 |             |                 |              |                  |                     |                    |         |
|----------|-------------|-----------------|--------------|------------------|---------------------|--------------------|---------|
| Signal   |             |                 | Temp<br>(°C) | Voltage<br>(VDC) | Freq. Error<br>(Hz) | Tolerance<br>(ppm) | Verdict |
| Type     | Level (dBm) | Frequency (MHz) |              |                  |                     |                    |         |
| CW       | 0.2         | 2110.2          | 20           | 40.8             | -163                | -0.077             | Pass    |
|          |             |                 |              | 48               | -169                | -0.080             | Pass    |
|          |             |                 |              | 55.2             | -167                | -0.079             | Pass    |
|          |             |                 | -30          | 48               | -162                | -0.077             | Pass    |
|          |             |                 | -20          | 48               | -165                | -0.078             | Pass    |
|          |             |                 | -10          | 48               | -166                | -0.079             | Pass    |
|          |             |                 | 0            | 48               | -168                | -0.080             | Pass    |
|          |             |                 | 10           | 48               | -164                | -0.078             | Pass    |
|          |             |                 | 30           | 48               | -161                | -0.076             | Pass    |
|          |             |                 | 40           | 48               | -165                | -0.078             | Pass    |
|          |             |                 | 50           | 48               | -170                | -0.081             | Pass    |
|          |             | 2145            | 20           | 40.8             | -172                | -0.080             | Pass    |
|          |             |                 |              | 48               | -175                | -0.082             | Pass    |
|          |             |                 |              | 55.2             | -174                | -0.081             | Pass    |
|          |             |                 | -30          | 48               | -176                | -0.082             | Pass    |
|          |             |                 | -20          | 48               | -179                | -0.083             | Pass    |
|          |             |                 | -10          | 48               | -180                | -0.084             | Pass    |
|          |             |                 | 0            | 48               | -176                | -0.082             | Pass    |
|          |             |                 | 10           | 48               | -185                | -0.086             | Pass    |
|          |             |                 | 30           | 48               | -179                | -0.083             | Pass    |
|          |             |                 | 40           | 48               | -177                | -0.083             | Pass    |
|          |             |                 | 50           | 48               | -174                | -0.081             | Pass    |
|          |             | 2179.8          | 20           | 40.8             | -171                | -0.078             | Pass    |
|          |             |                 |              | 48               | -177                | -0.081             | Pass    |
|          |             |                 |              | 55.2             | -174                | -0.080             | Pass    |
|          |             |                 | -30          | 48               | -178                | -0.082             | Pass    |
|          |             |                 | -20          | 48               | -171                | -0.078             | Pass    |
|          |             |                 | -10          | 48               | -175                | -0.080             | Pass    |
|          |             |                 | 0            | 48               | -179                | -0.082             | Pass    |
|          |             |                 | 10           | 48               | -170                | -0.078             | Pass    |
|          |             |                 | 30           | 48               | -169                | -0.078             | Pass    |
|          |             |                 | 40           | 48               | -176                | -0.081             | Pass    |
|          |             |                 | 50           | 48               | -172                | -0.079             | Pass    |

## 8. Radiated Spurious Emissions

### 8.1 Band66\_Ant1

#### 8.1.1 Test Result

| AWGN_Low channel |                                          |        |       |            |        |
|------------------|------------------------------------------|--------|-------|------------|--------|
| Frequency        | Spurious Emission Polarization and Level |        | Limit | Over limit | Result |
| MHz              | polarization                             | dBm    | dBm   | dB         |        |
| 94.100           | Horizontal                               | -68.99 | -13   | -55.99     | pass   |
| 151.375          | Horizontal                               | -61.86 | -13   | -48.86     | pass   |
| 731.059          | Horizontal                               | -63.32 | -13   | -50.32     | pass   |
| 1355.82          | Horizontal                               | -49.62 | -13   | -36.62     | pass   |
| 7898.17          | Horizontal                               | -47.97 | -13   | -34.97     | pass   |
| 12624.20         | Horizontal                               | -43.96 | -13   | -30.96     | pass   |
| 90.350           | Vertical                                 | -62.68 | -13   | -49.68     | pass   |
| 156.815          | Vertical                                 | -59.54 | -13   | -46.54     | pass   |
| 641.959          | Vertical                                 | -60.58 | -13   | -47.58     | pass   |
| 1329.25          | Vertical                                 | -47.07 | -13   | -34.07     | pass   |
| 7942.92          | Vertical                                 | -51.10 | -13   | -38.10     | pass   |
| 12595.97         | Vertical                                 | -40.62 | -13   | -27.62     | pass   |

| AWGN_Middle channel |                                          |        |       |            |        |
|---------------------|------------------------------------------|--------|-------|------------|--------|
| Frequency           | Spurious Emission Polarization and Level |        | Limit | Over limit | Result |
| MHz                 | polarization                             | dBm    | dBm   | dB         |        |
| 98.614              | Horizontal                               | -62.45 | -13   | -49.45     | pass   |
| 168.598             | Horizontal                               | -64.17 | -13   | -51.17     | pass   |
| 688.162             | Horizontal                               | -62.73 | -13   | -49.73     | pass   |
| 1355.380            | Horizontal                               | -51.99 | -13   | -38.99     | pass   |
| 7940.190            | Horizontal                               | -49.95 | -13   | -36.95     | pass   |
| 12595.190           | Horizontal                               | -39.68 | -13   | -26.68     | pass   |
| 76.295              | Vertical                                 | -69.81 | -13   | -56.81     | pass   |
| 256.059             | Vertical                                 | -59.74 | -13   | -46.74     | pass   |
| 523.046             | Vertical                                 | -61.33 | -13   | -48.33     | pass   |
| 1352.69             | Vertical                                 | -50.40 | -13   | -37.40     | pass   |
| 7910.42             | Vertical                                 | -48.56 | -13   | -35.56     | pass   |
| 12639.12            | Vertical                                 | -42.55 | -13   | -29.55     | pass   |

| AWGN_High channel |                                             |        |       |            |        |
|-------------------|---------------------------------------------|--------|-------|------------|--------|
| Frequency         | Spurious Emission<br>Polarization and Level |        | Limit | Over limit | Result |
| MHz               | polarization                                | dBm    | dBm   | dB         |        |
| 192.118           | Horizontal                                  | -64.10 | -13   | -51.10     | pass   |
| 378.102           | Horizontal                                  | -63.17 | -13   | -50.17     | pass   |
| 592.369           | Horizontal                                  | -57.02 | -13   | -44.02     | pass   |
| 1337.83           | Horizontal                                  | -51.08 | -13   | -38.08     | pass   |
| 7898.44           | Horizontal                                  | -50.32 | -13   | -37.32     | pass   |
| 12623.60          | Horizontal                                  | -39.72 | -13   | -26.72     | pass   |
| 147.195           | Vertical                                    | -63.94 | -13   | -50.94     | pass   |
| 245.699           | Vertical                                    | -64.44 | -13   | -51.44     | pass   |
| 697.616           | Vertical                                    | -62.05 | -13   | -49.05     | pass   |
| 1341.92           | Vertical                                    | -47.69 | -13   | -34.69     | pass   |
| 7935.29           | Vertical                                    | -55.13 | -13   | -42.13     | pass   |
| 12600.75          | Vertical                                    | -40.54 | -13   | -27.54     | pass   |

| GMSK_Low channel |                                             |        |       |            |        |
|------------------|---------------------------------------------|--------|-------|------------|--------|
| Frequency        | Spurious Emission<br>Polarization and Level |        | Limit | Over limit | Result |
| MHz              | polarization                                | dBm    | dBm   | dB         |        |
| 86.324           | Horizontal                                  | -62.45 | -13   | -49.45     | pass   |
| 175.638          | Horizontal                                  | -60.62 | -13   | -47.62     | pass   |
| 763.622          | Horizontal                                  | -59.06 | -13   | -46.06     | pass   |
| 2112.63          | Horizontal                                  | -54.54 | -13   | -41.54     | pass   |
| 8003.38          | Horizontal                                  | -50.05 | -13   | -37.05     | pass   |
| 11609.82         | Horizontal                                  | -40.81 | -13   | -27.81     | pass   |
| 161.535          | Vertical                                    | -65.13 | -13   | -52.13     | pass   |
| 260.089          | Vertical                                    | -61.22 | -13   | -48.22     | pass   |
| 513.206          | Vertical                                    | -63.05 | -13   | -50.05     | pass   |
| 2120.62          | Vertical                                    | -46.80 | -13   | -33.80     | pass   |
| 8018.33          | Vertical                                    | -52.06 | -13   | -39.06     | pass   |
| 11622.10         | Vertical                                    | -39.79 | -13   | -26.79     | pass   |

| GMSK_Middle channel |                   |  |       |            |        |
|---------------------|-------------------|--|-------|------------|--------|
| Frequency           | Spurious Emission |  | Limit | Over limit | Result |

|          | Polarization and Level |        |     |        |      |
|----------|------------------------|--------|-----|--------|------|
| MHz      | polarization           | dBm    | dBm | dB     |      |
| 79.694   | Horizontal             | -68.47 | -13 | -55.47 | pass |
| 189.528  | Horizontal             | -60.15 | -13 | -47.15 | pass |
| 374.372  | Horizontal             | -60.71 | -13 | -47.71 | pass |
| 2114.70  | Horizontal             | -50.83 | -13 | -37.83 | pass |
| 7996.86  | Horizontal             | -52.84 | -13 | -39.84 | pass |
| 11613.02 | Horizontal             | -44.17 | -13 | -31.17 | pass |
| 137.475  | Vertical               | -64.57 | -13 | -51.57 | pass |
| 259.359  | Vertical               | -63.64 | -13 | -50.64 | pass |
| 519.576  | Vertical               | -63.70 | -13 | -50.70 | pass |
| 2131.15  | Vertical               | -52.51 | -13 | -39.51 | pass |
| 8044.14  | Vertical               | -48.56 | -13 | -35.56 | pass |
| 11628.70 | Vertical               | -36.77 | -13 | -23.77 | pass |

| GMSK_High channel |                                          |        |       |            |        |
|-------------------|------------------------------------------|--------|-------|------------|--------|
| Frequency         | Spurious Emission Polarization and Level |        | Limit | Over limit | Result |
| MHz               | polarization                             | dBm    | dBm   | dB         |        |
| 49.930            | Horizontal                               | -68.82 | -13   | -55.82     | pass   |
| 244.545           | Horizontal                               | -62.29 | -13   | -49.29     | pass   |
| 648.279           | Horizontal                               | -60.85 | -13   | -47.85     | pass   |
| 2084.61           | Horizontal                               | -52.32 | -13   | -39.32     | pass   |
| 8117.93           | Horizontal                               | -47.53 | -13   | -34.53     | pass   |
| 11779.19          | Horizontal                               | -40.77 | -13   | -27.77     | pass   |
| 137.945           | Vertical                                 | -62.54 | -13   | -49.54     | pass   |
| 252.299           | Vertical                                 | -63.79 | -13   | -50.79     | pass   |
| 504.786           | Vertical                                 | -63.10 | -13   | -50.10     | pass   |
| 2106.74           | Vertical                                 | -53.83 | -13   | -40.83     | pass   |
| 8096.26           | Vertical                                 | -48.62 | -13   | -35.62     | pass   |
| 11783.67          | Vertical                                 | -41.58 | -13   | -28.58     | pass   |