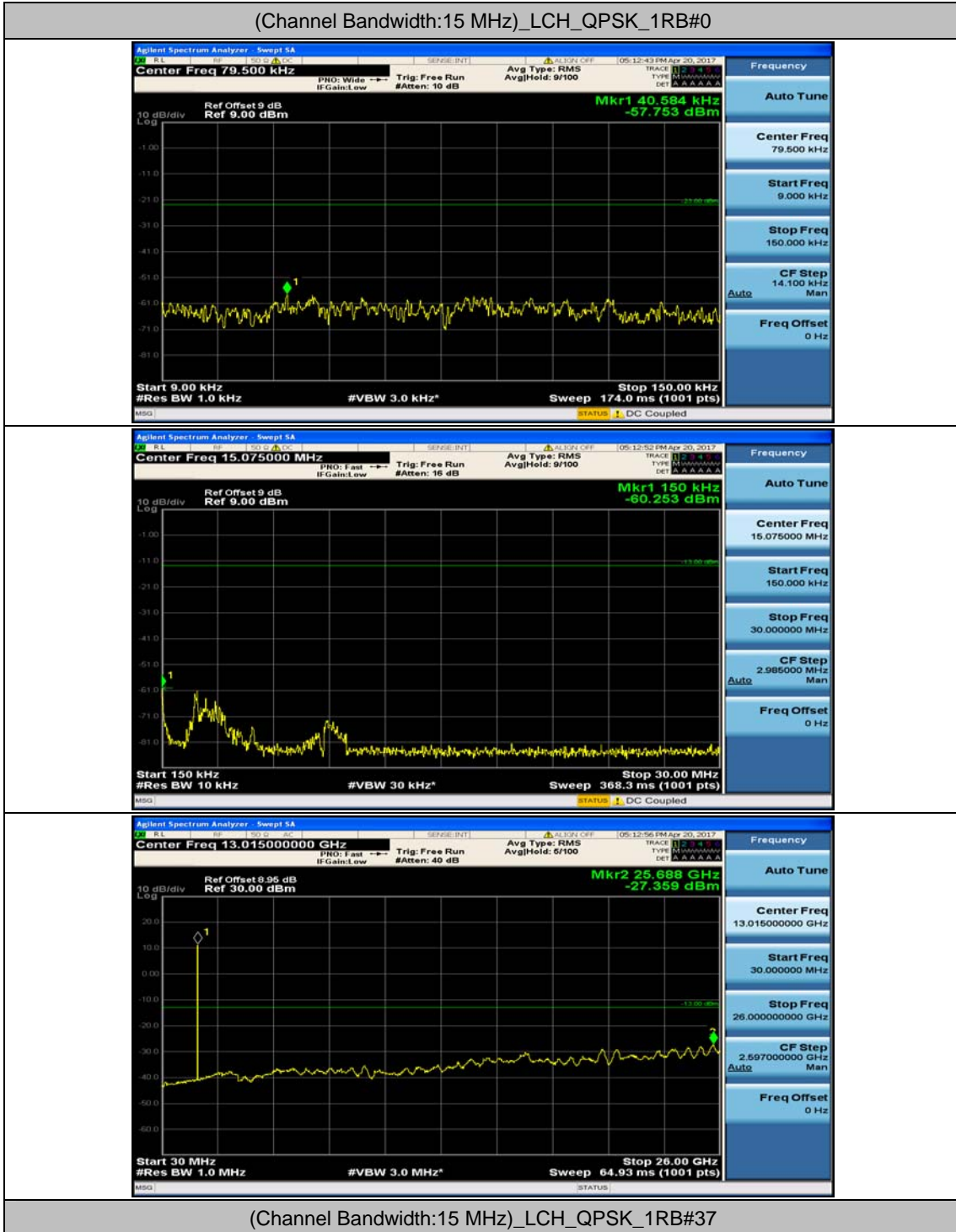
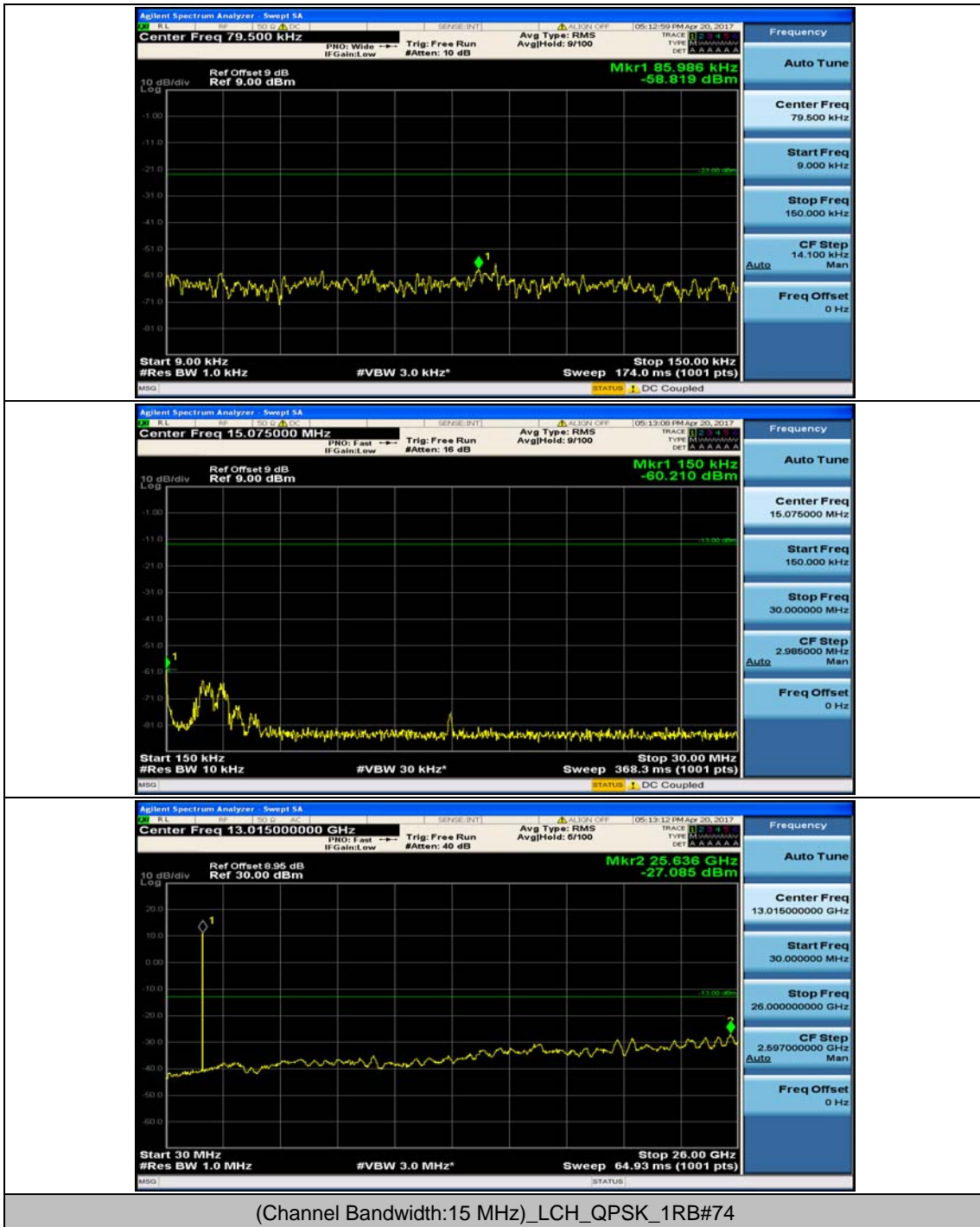
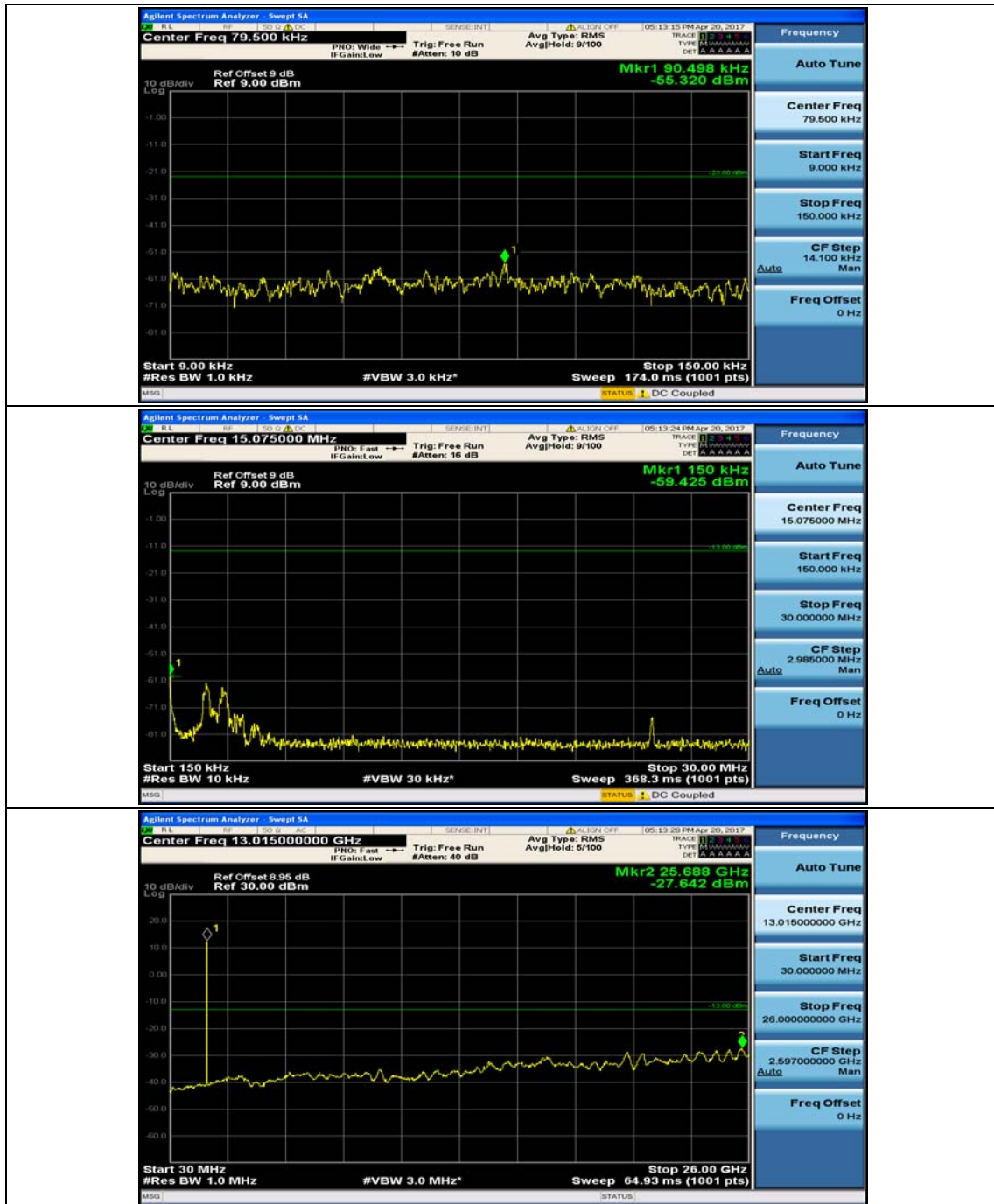


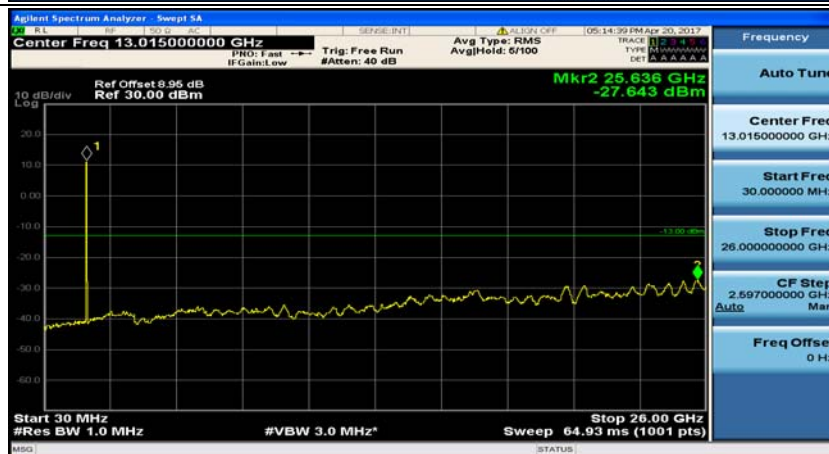
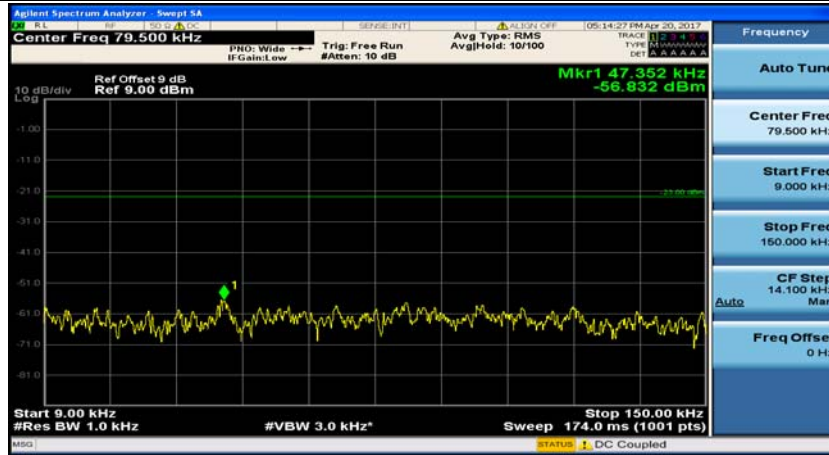
Channel Bandwidth: 15 MHz



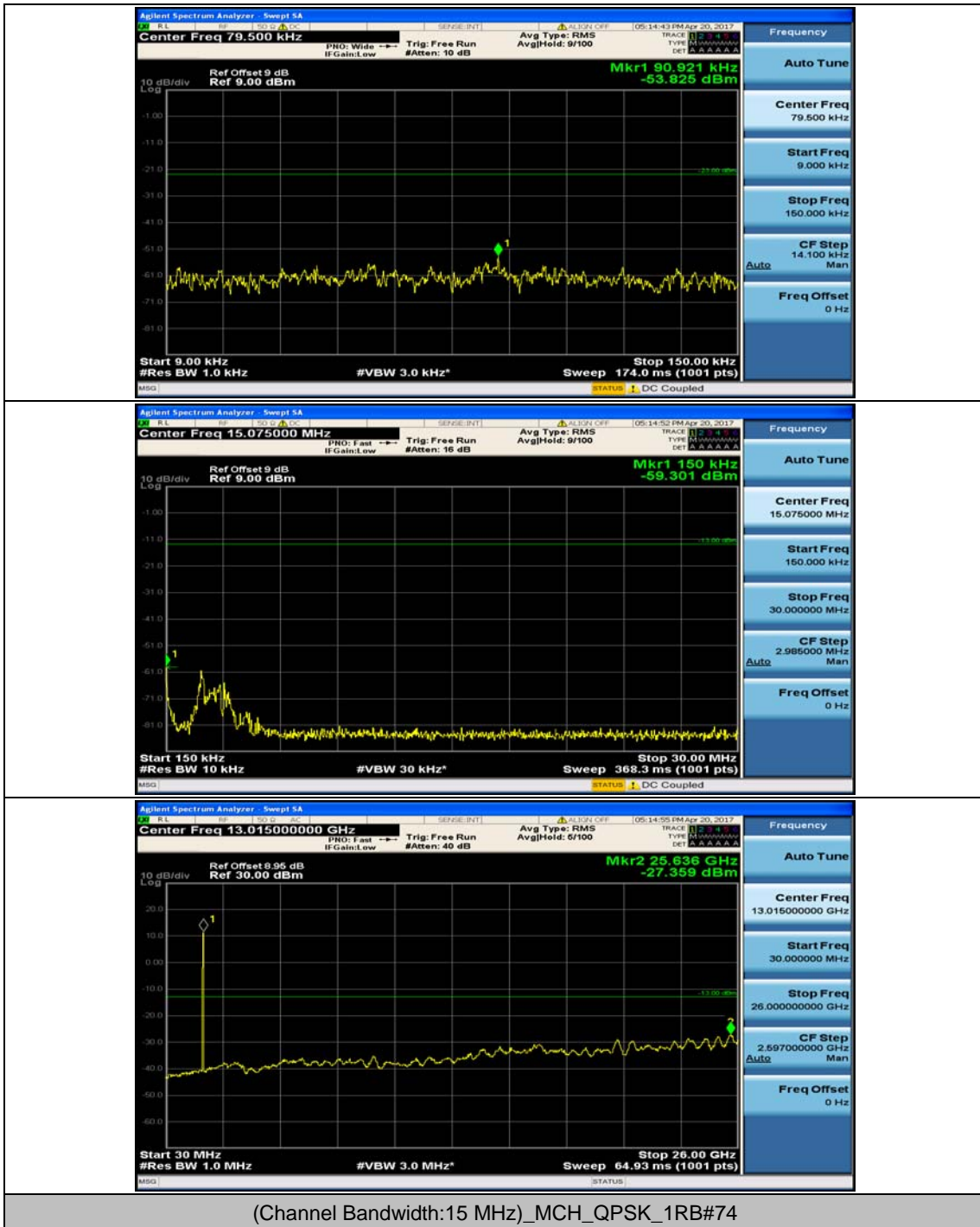


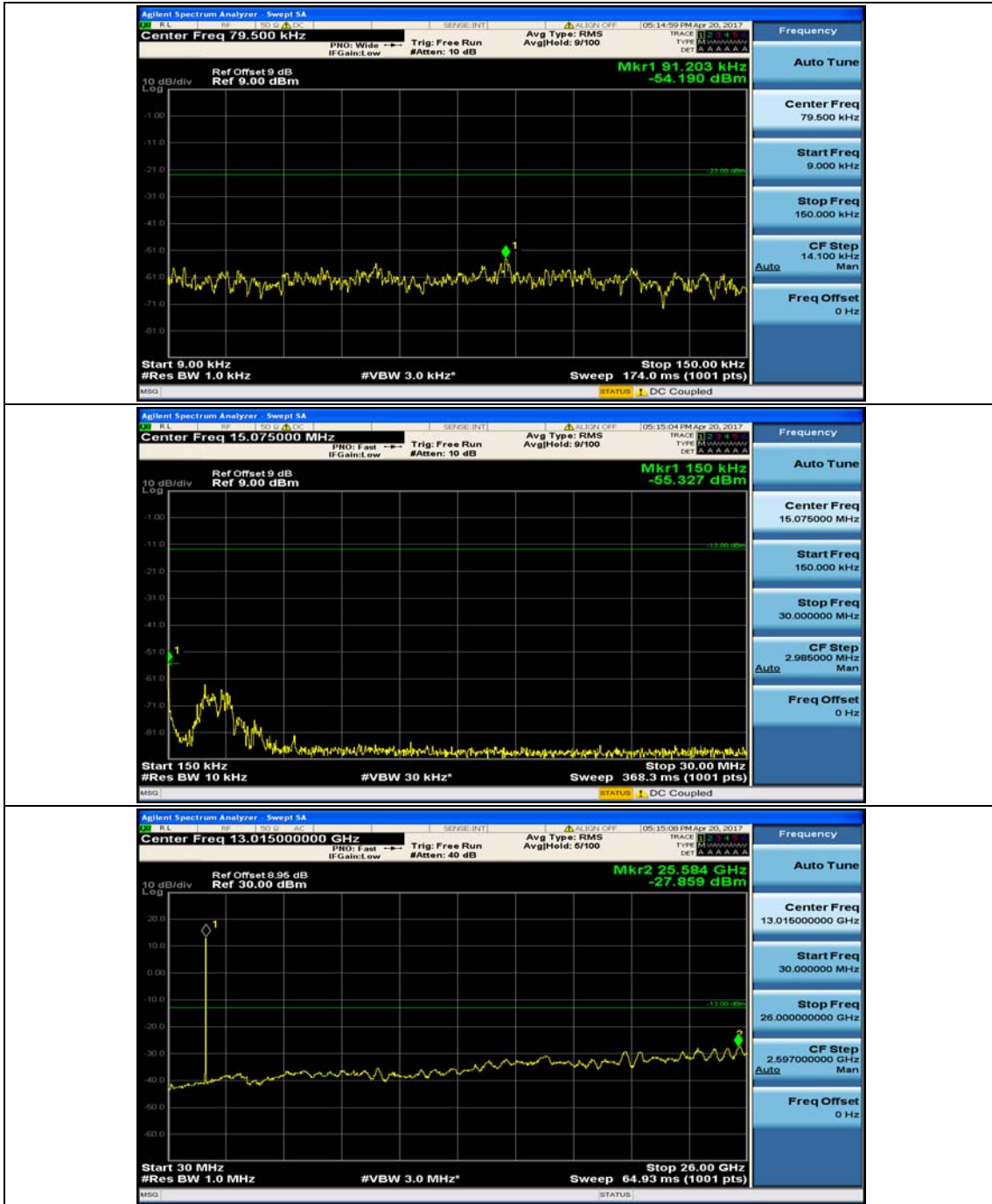


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

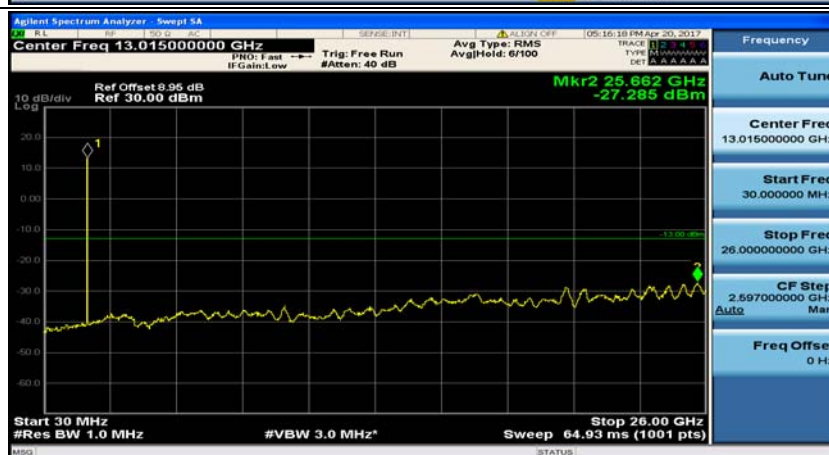
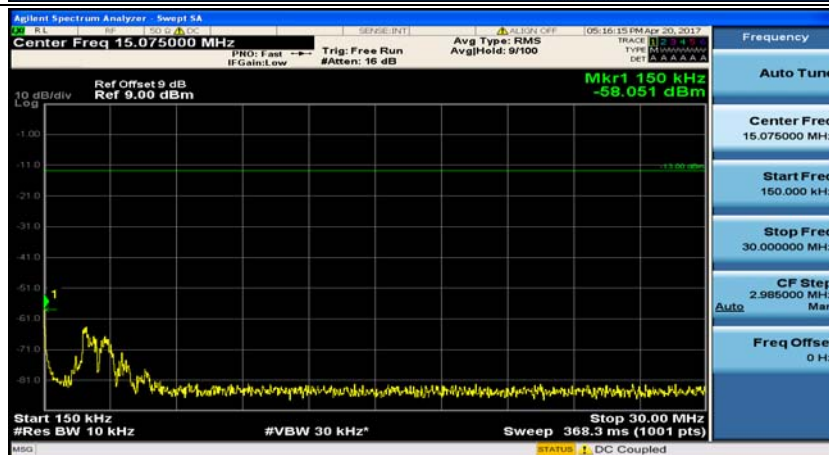


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

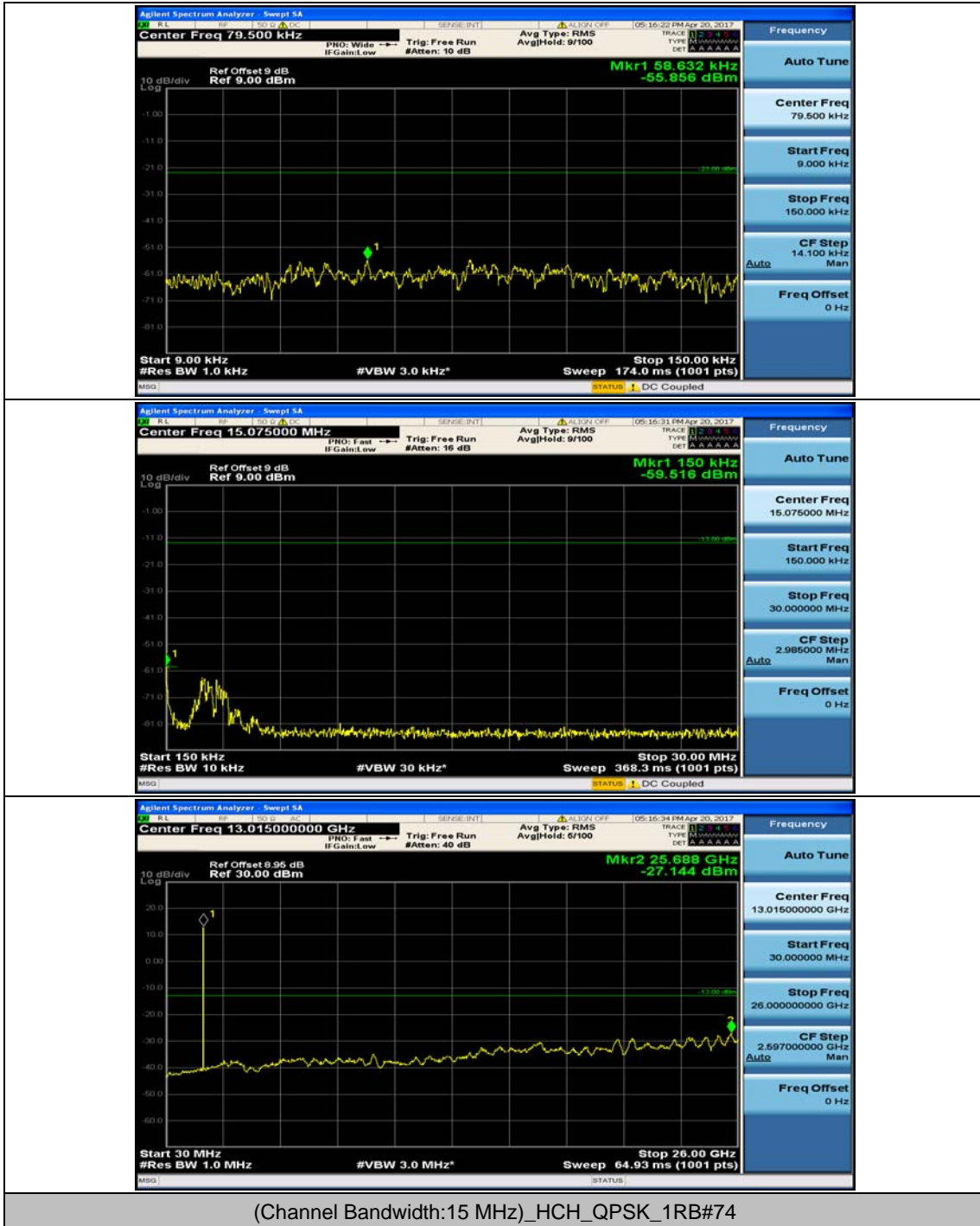


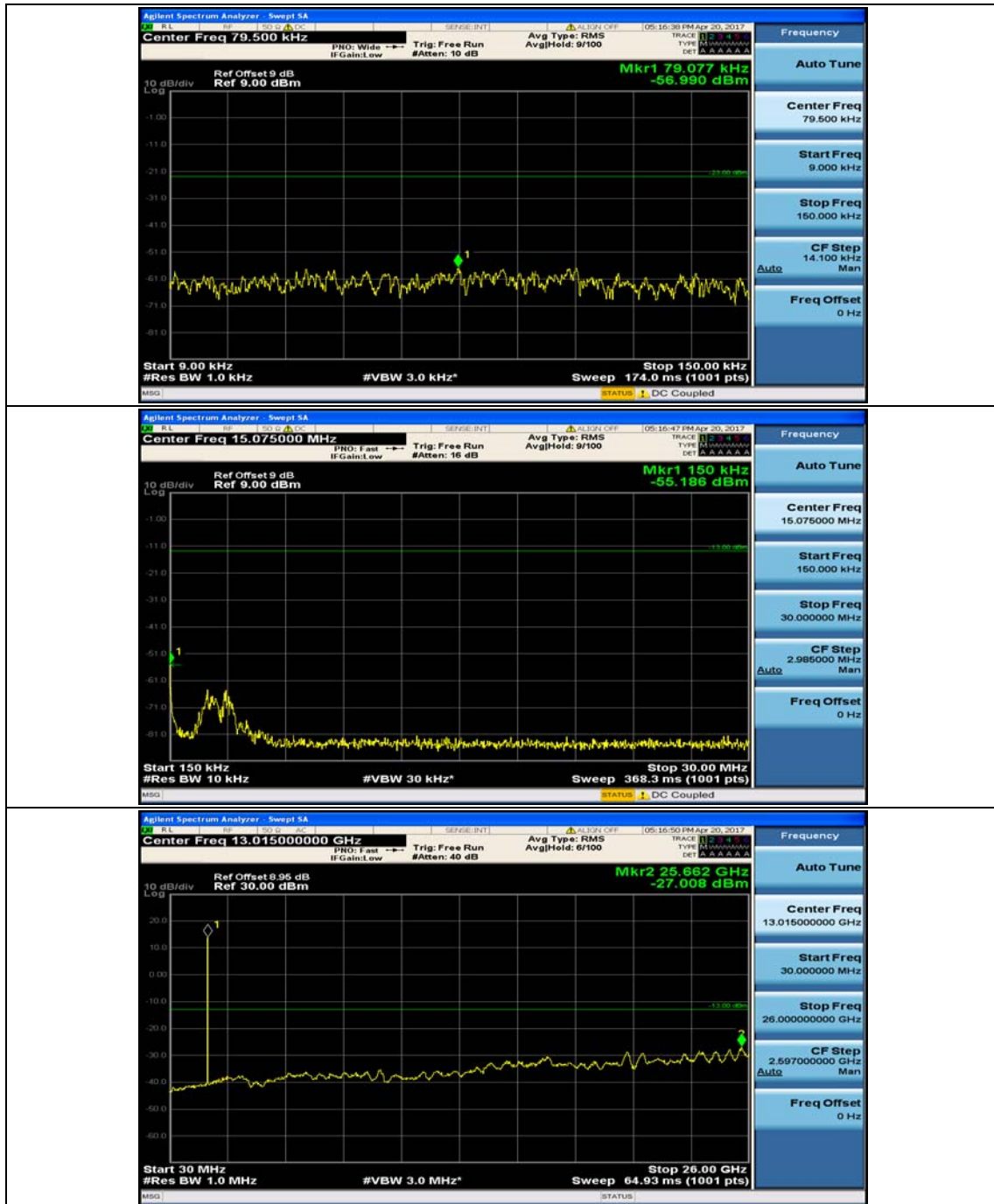


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

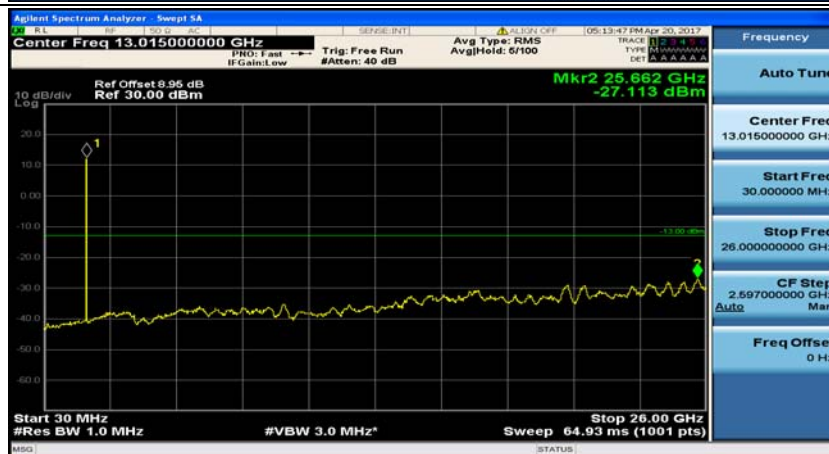
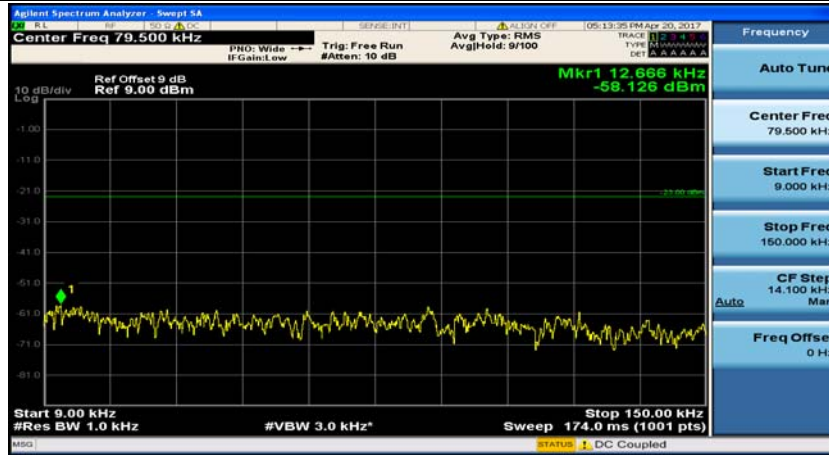


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

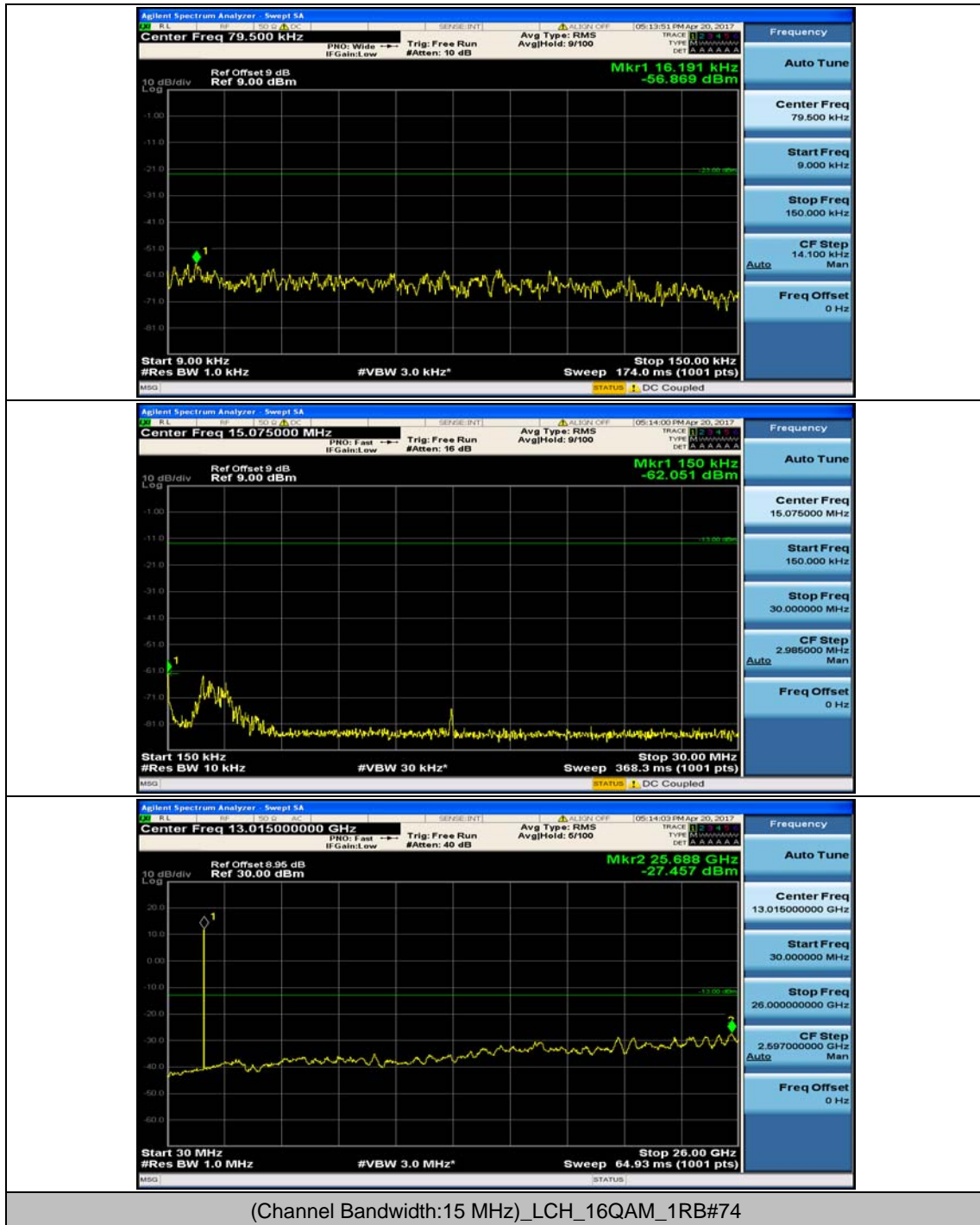


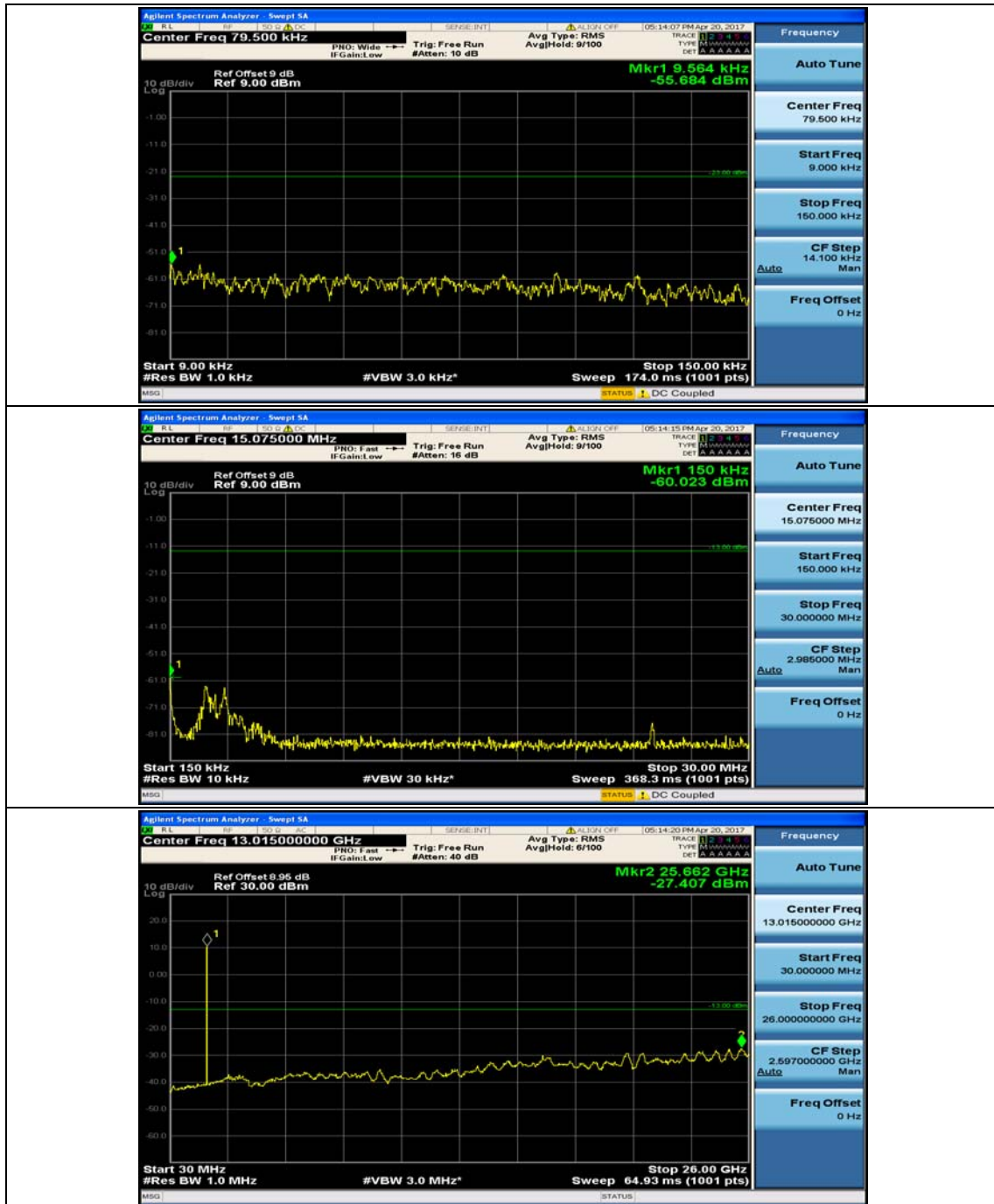


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

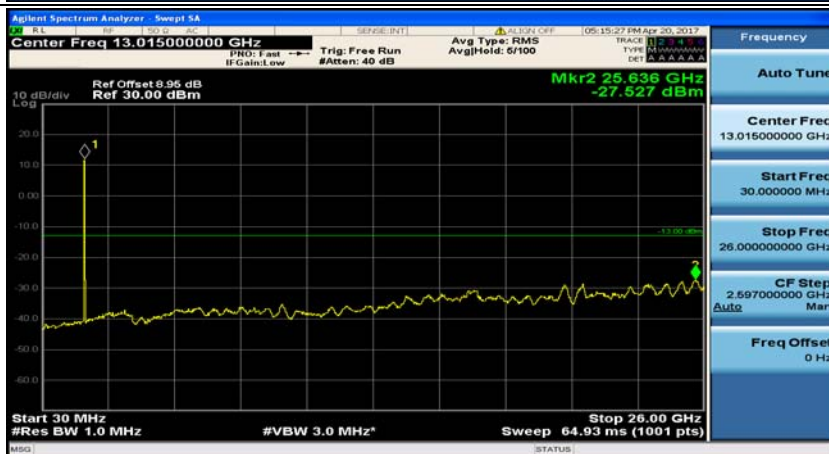
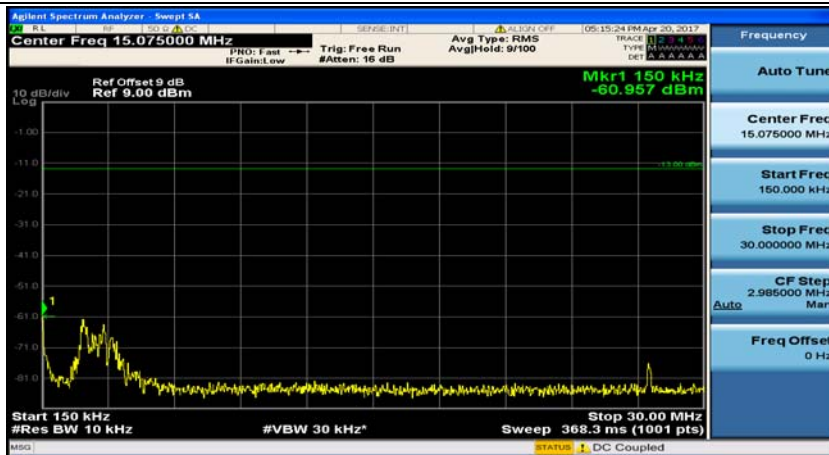
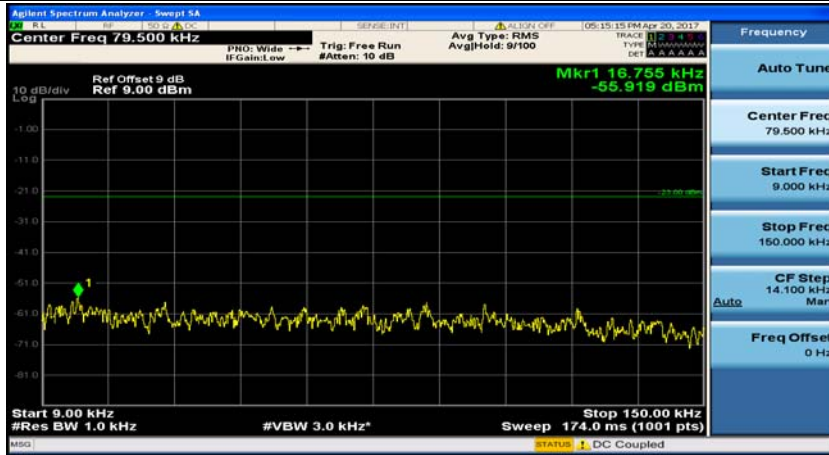


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

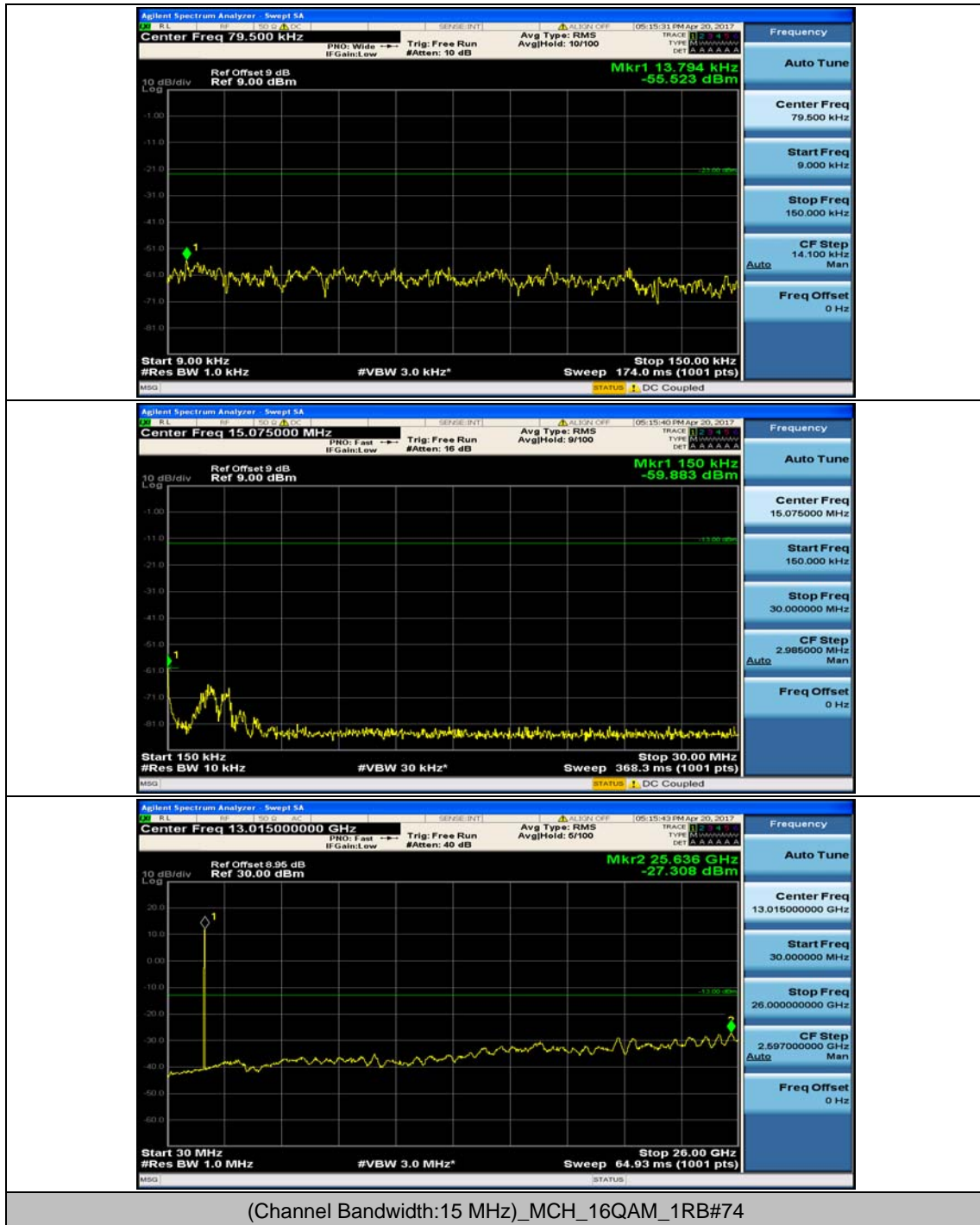


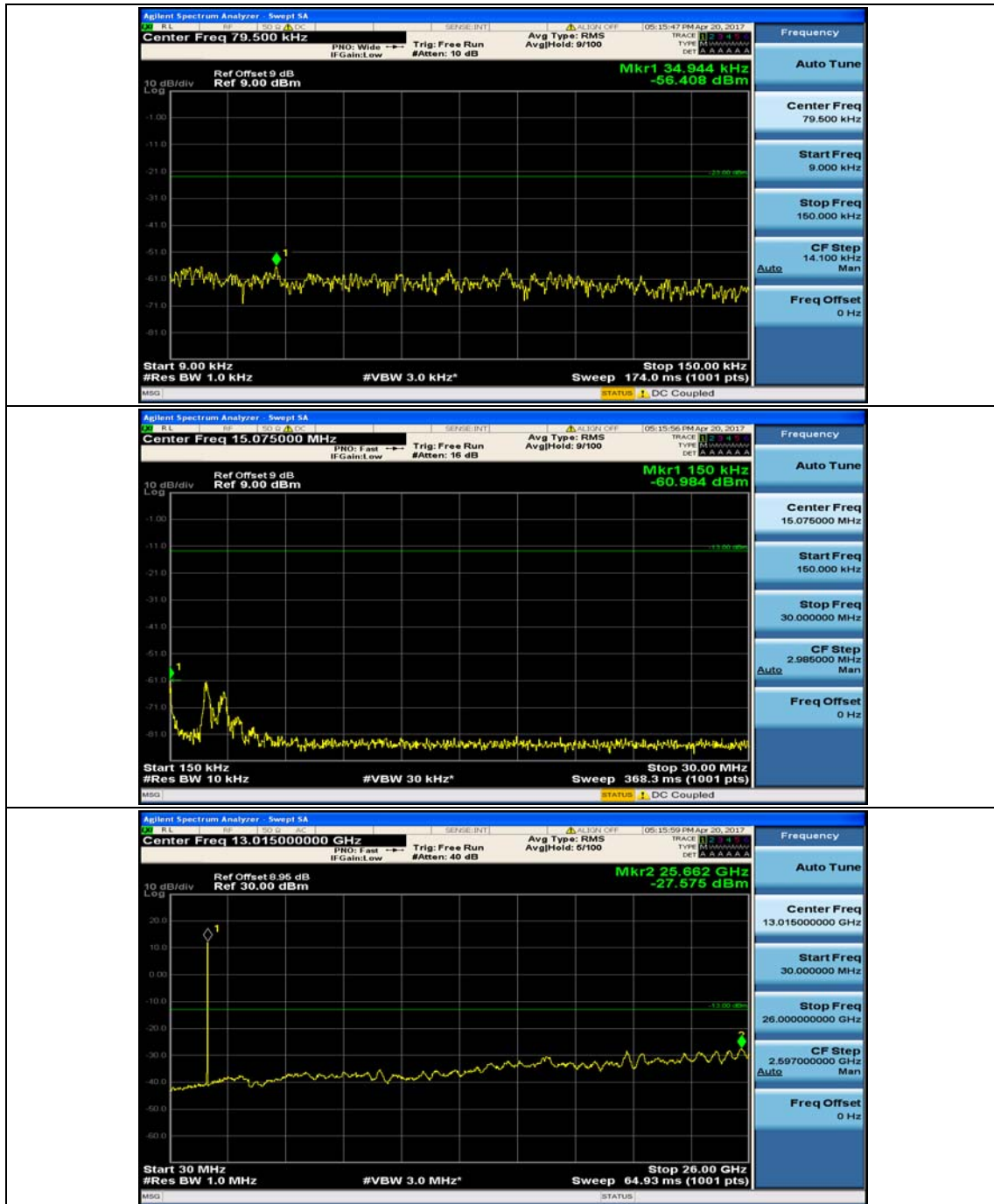


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

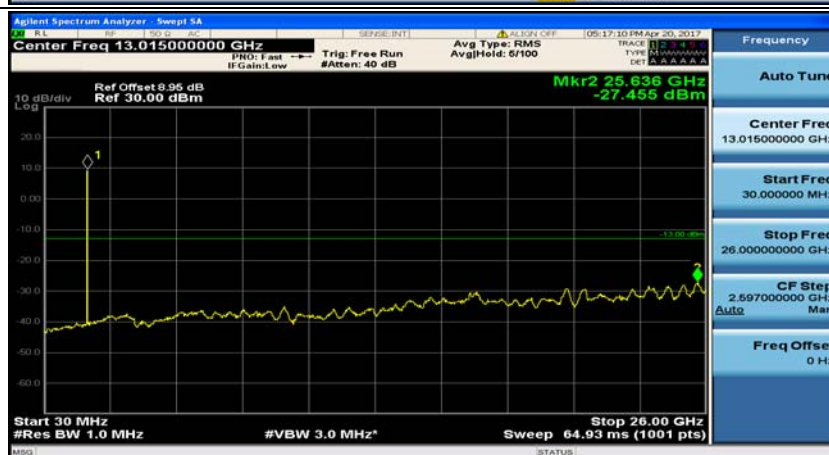
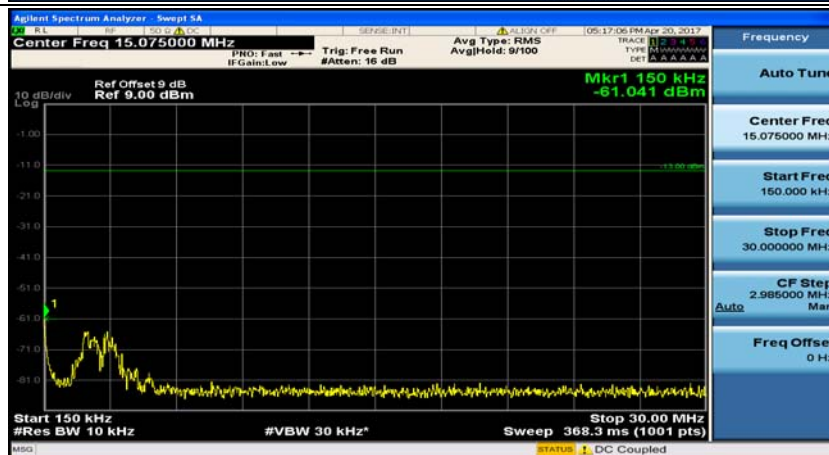
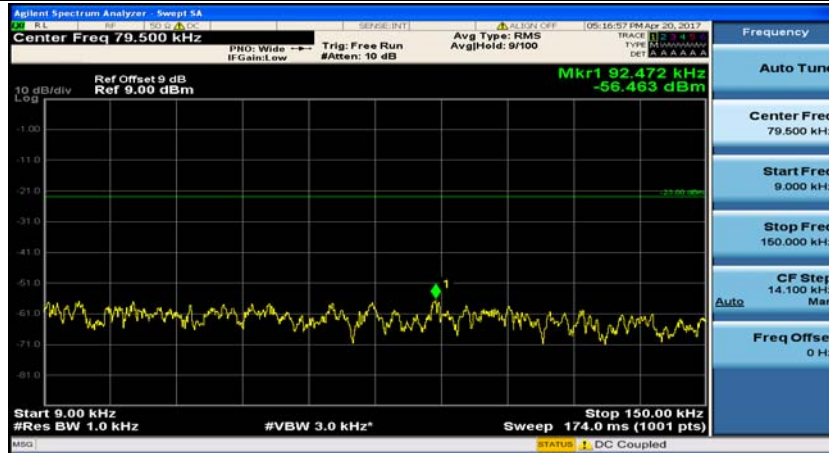


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

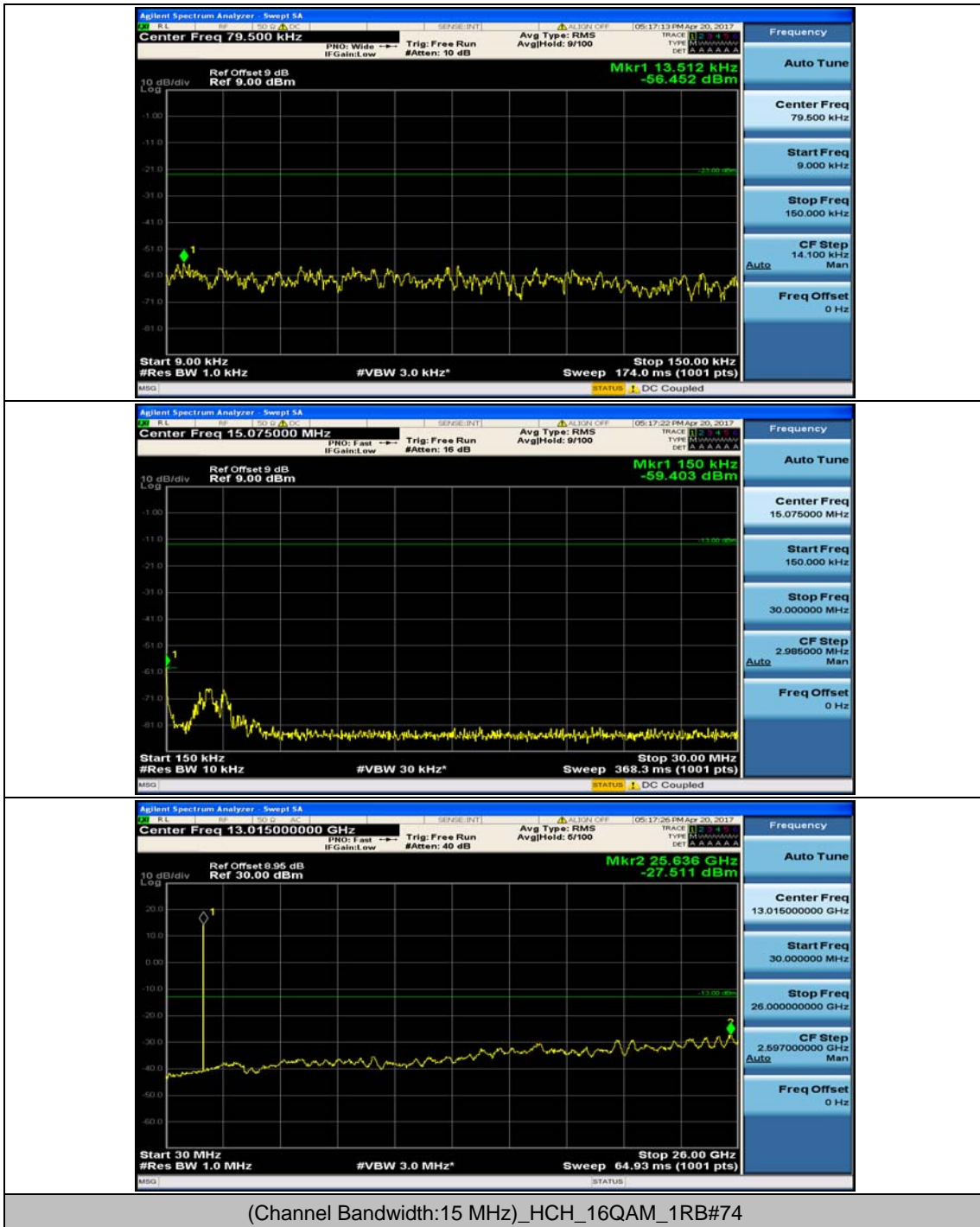


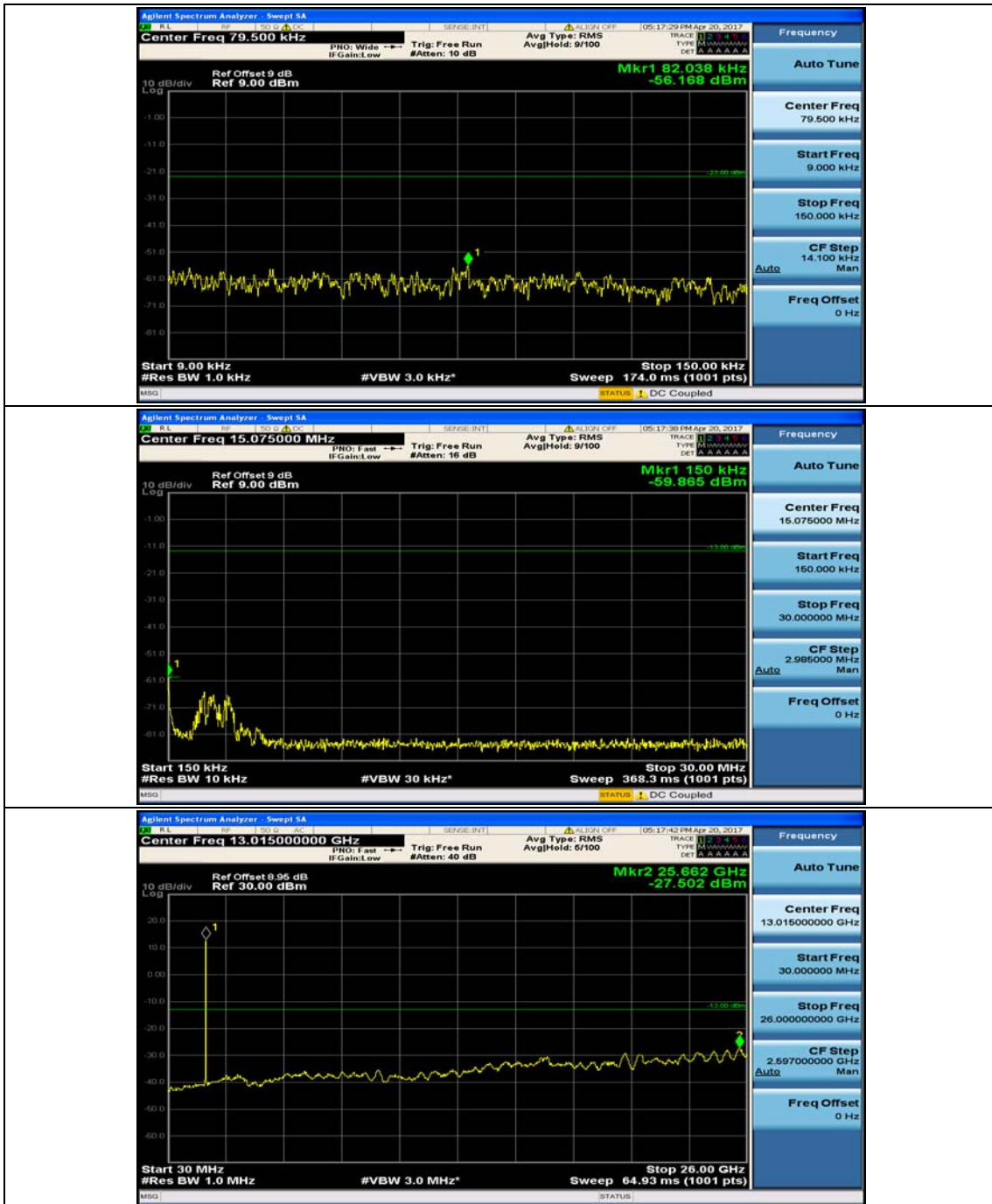


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

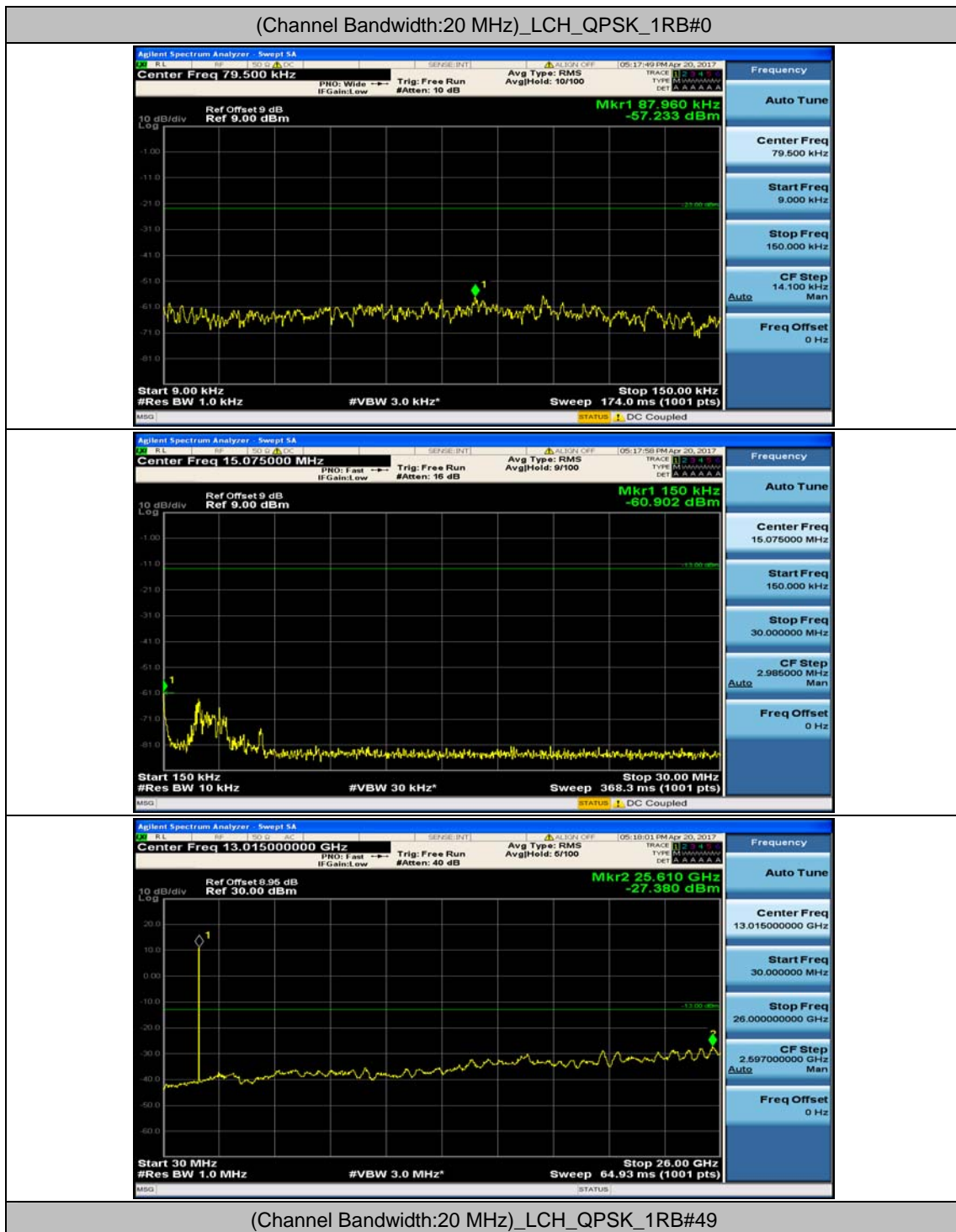


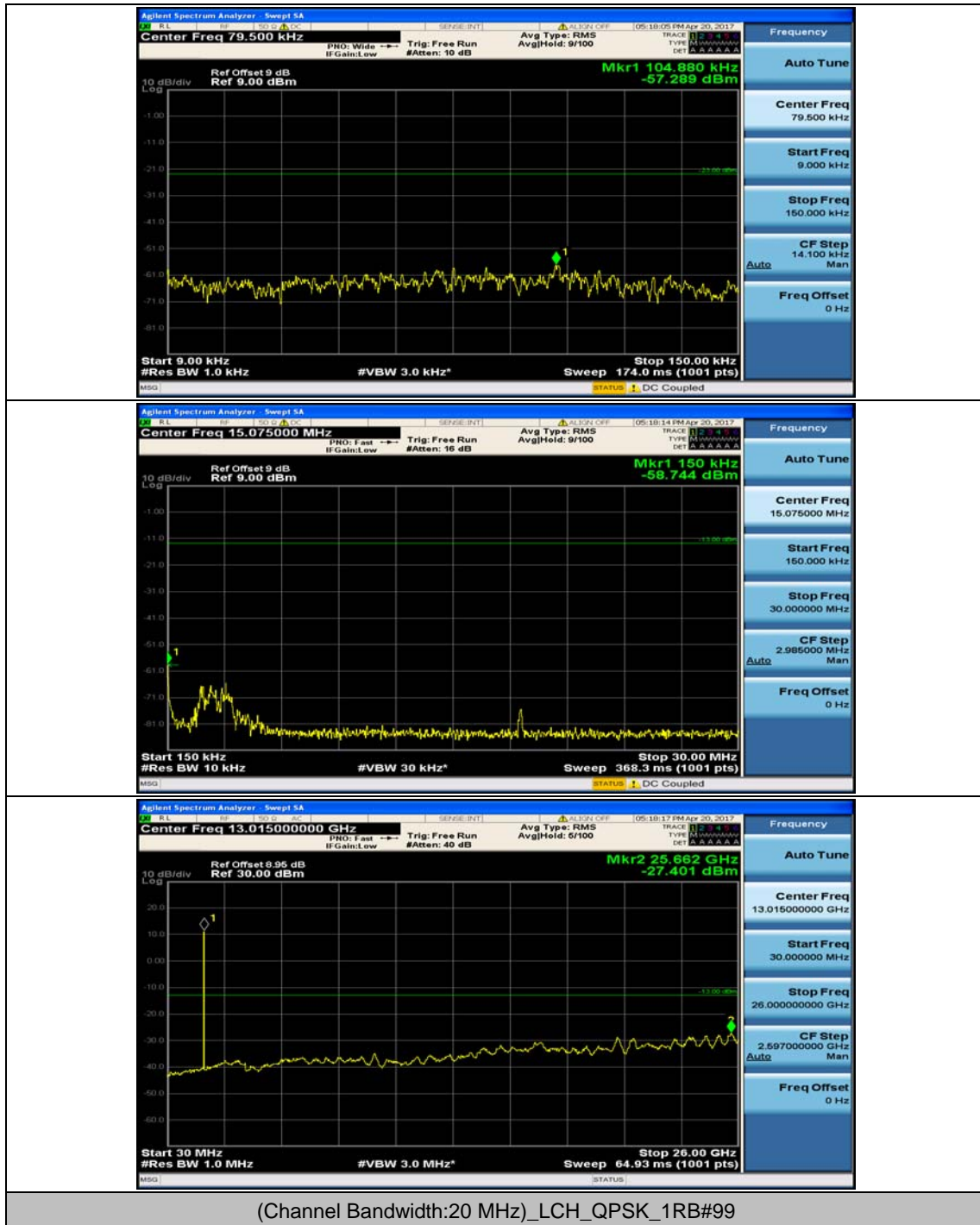
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

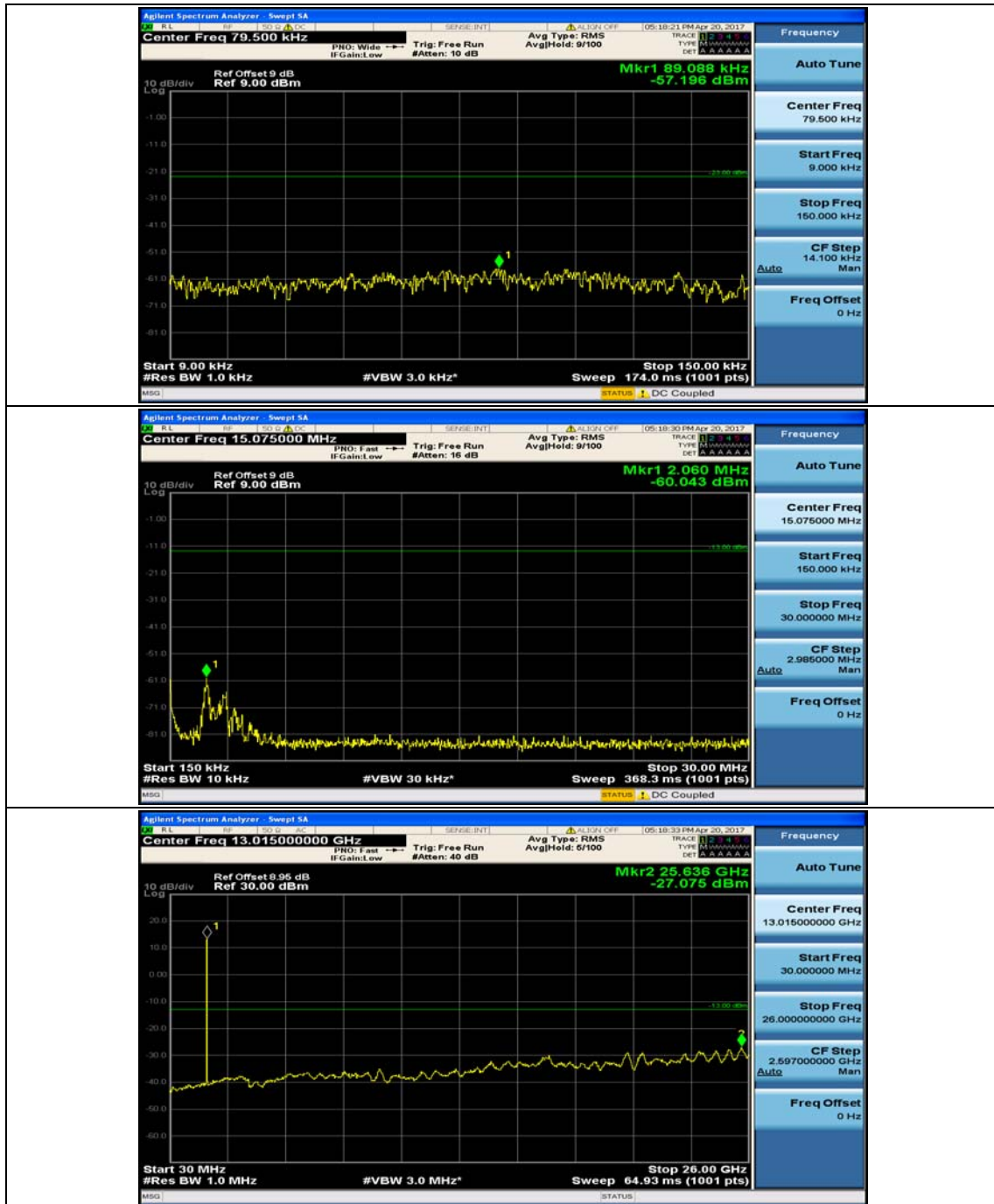




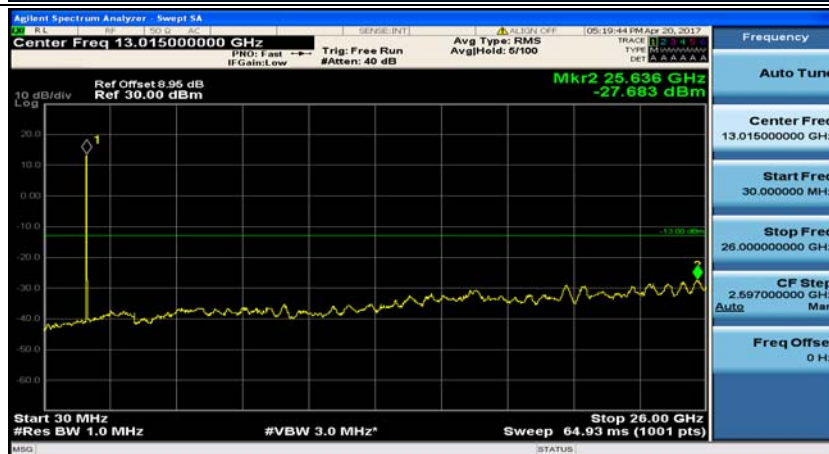
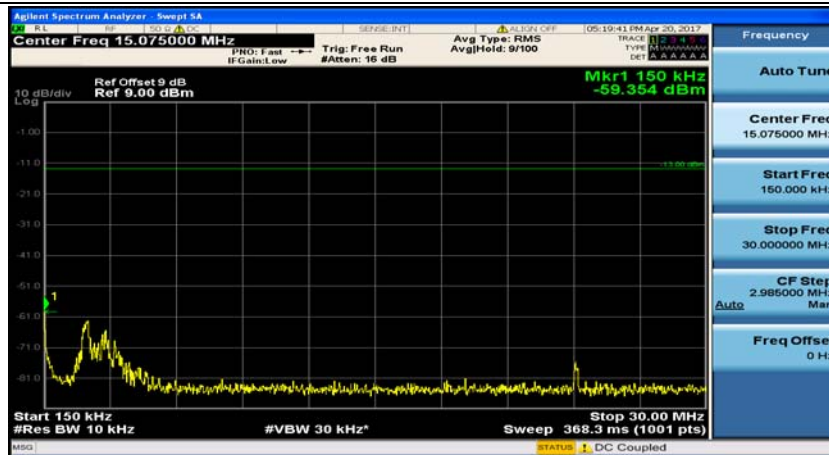
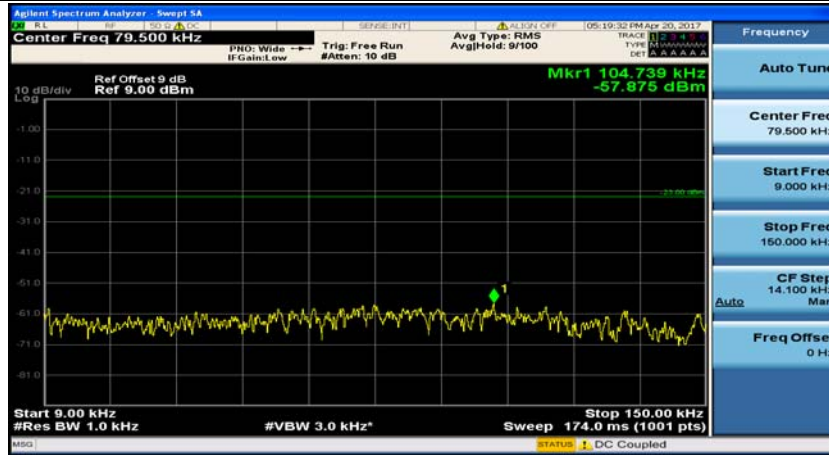
Channel Bandwidth: 20 MHz



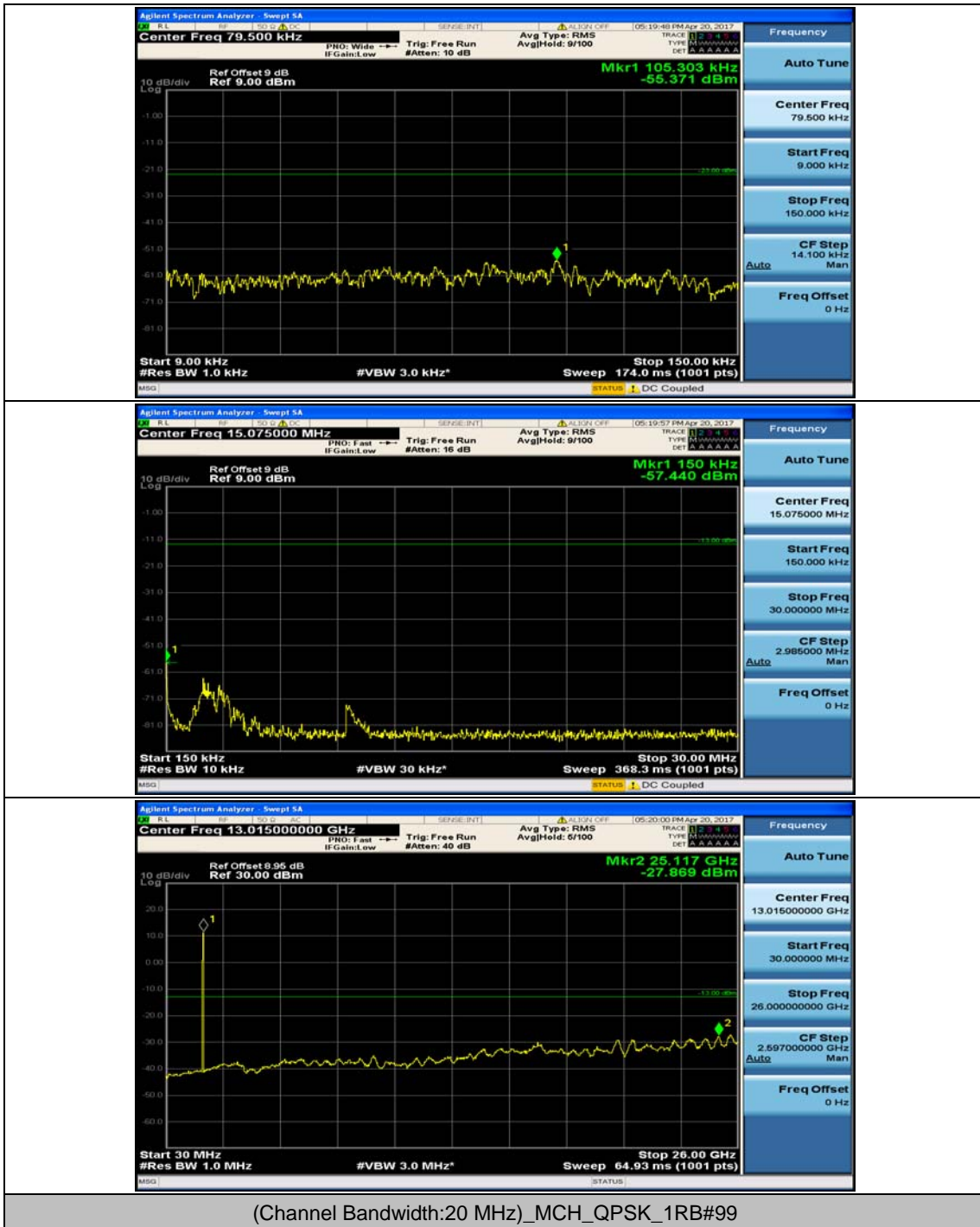


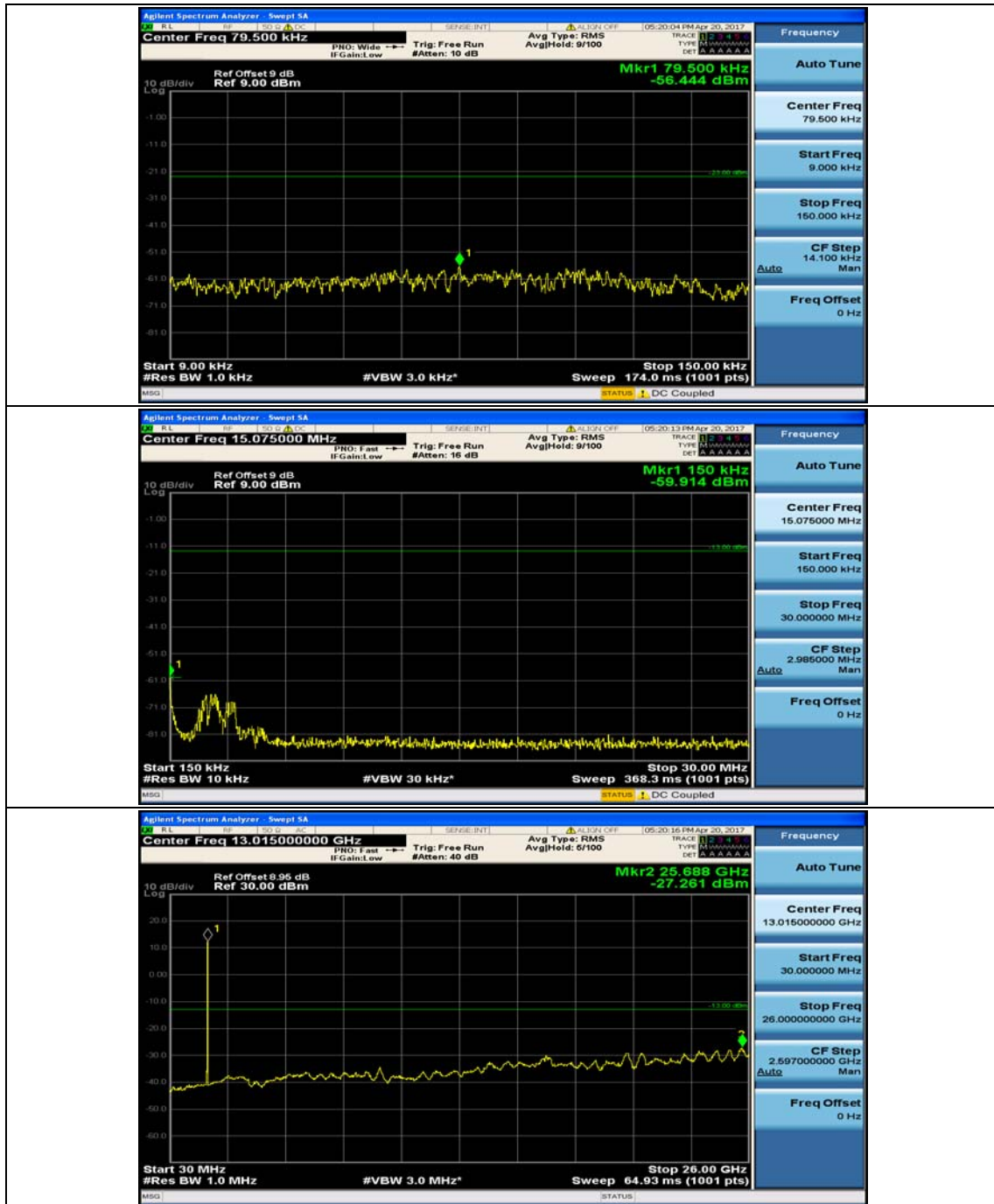


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

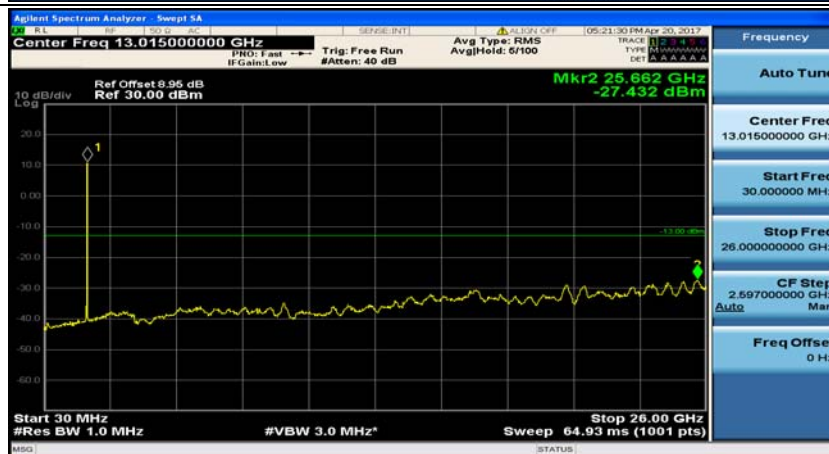
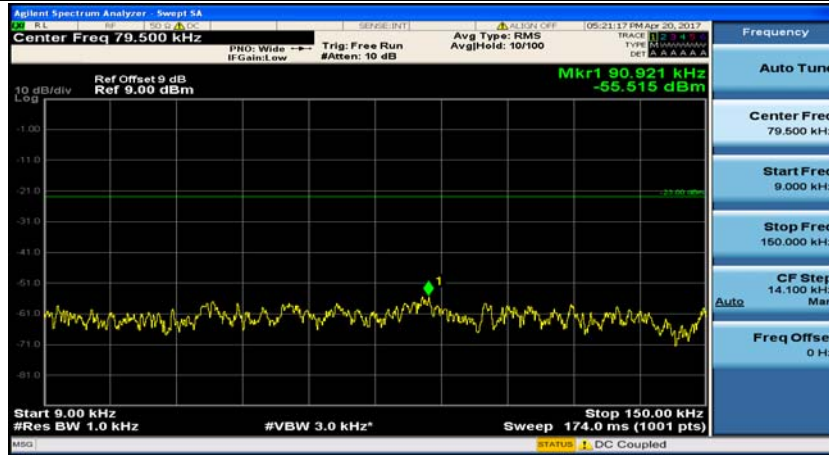


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

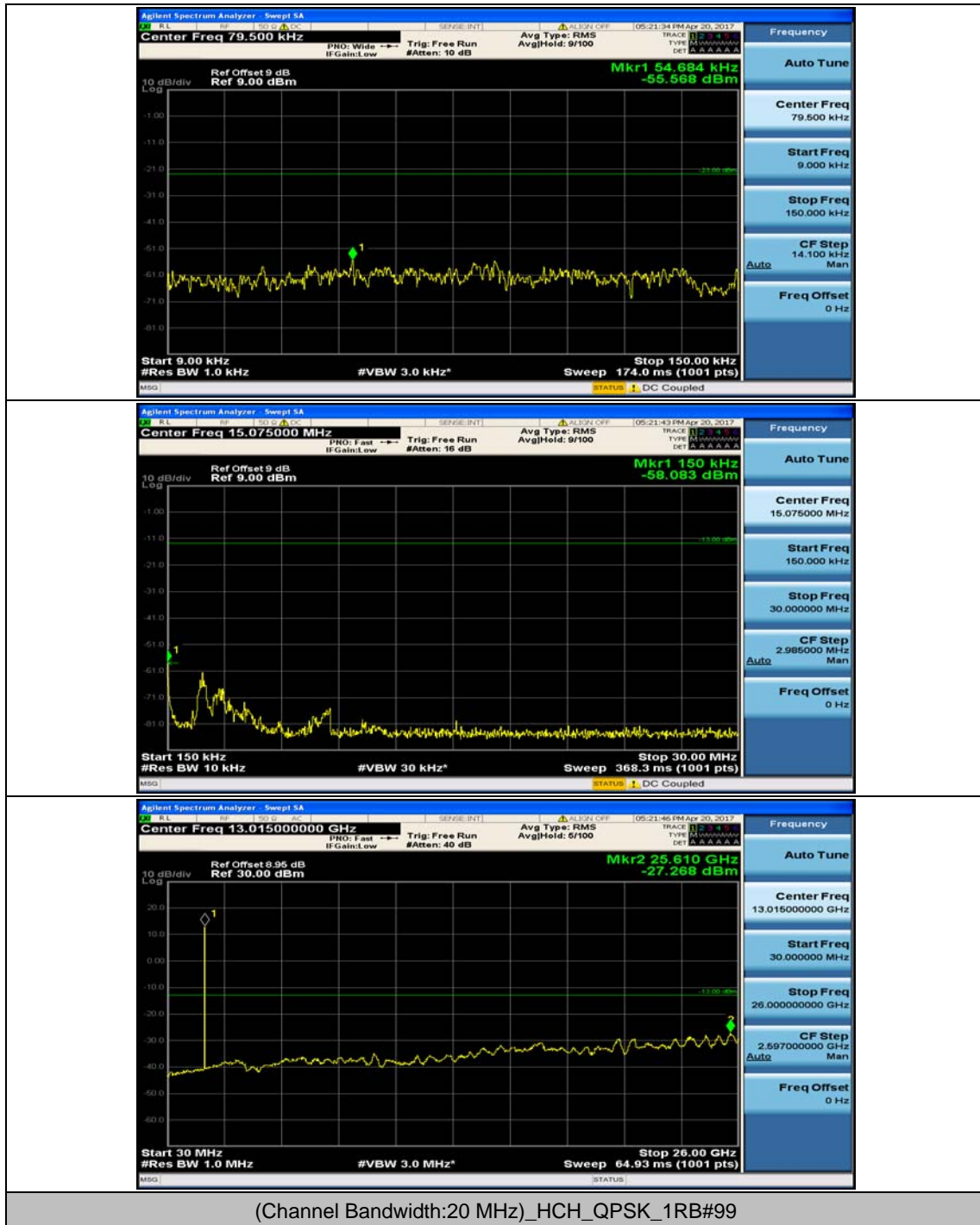


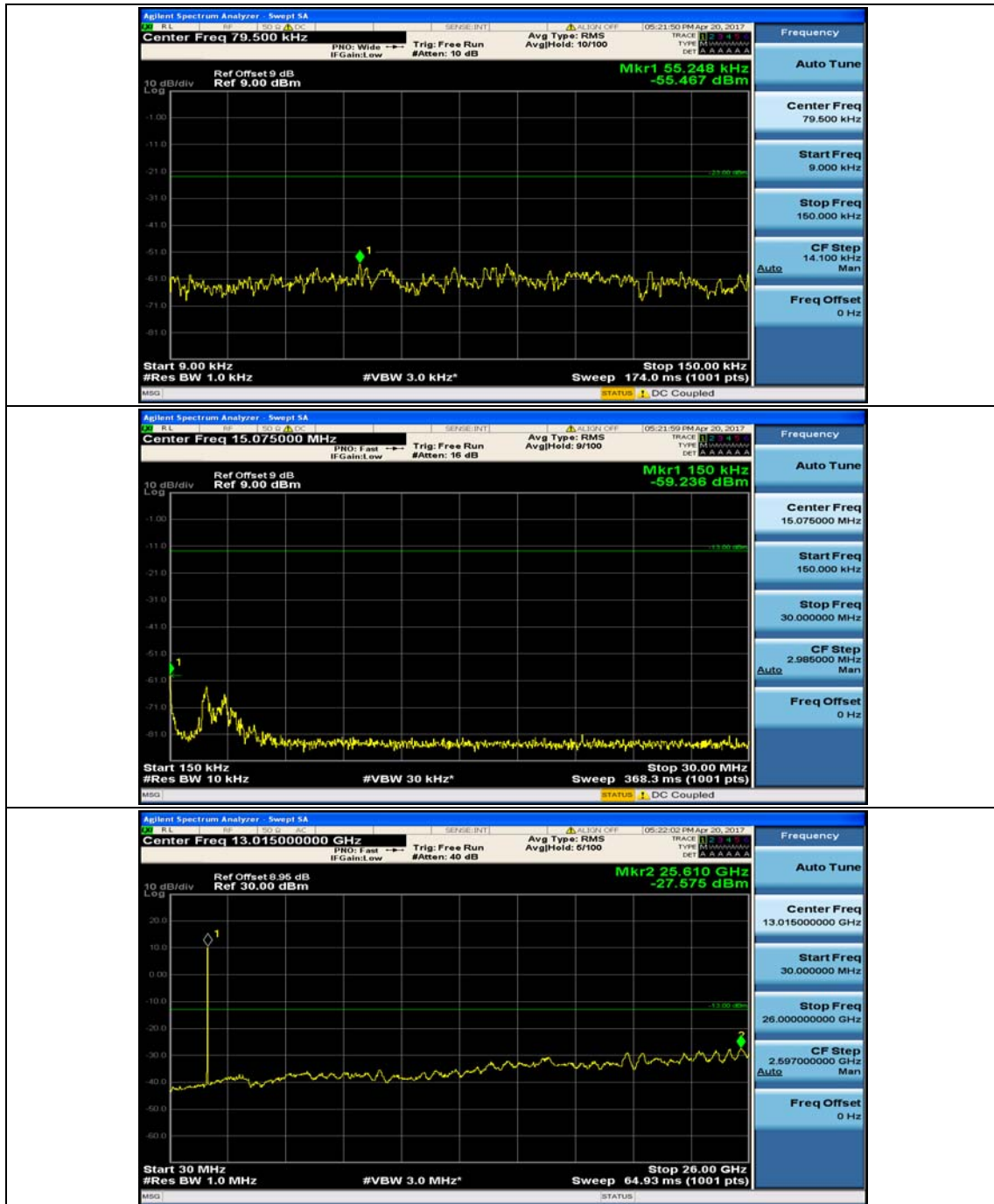


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

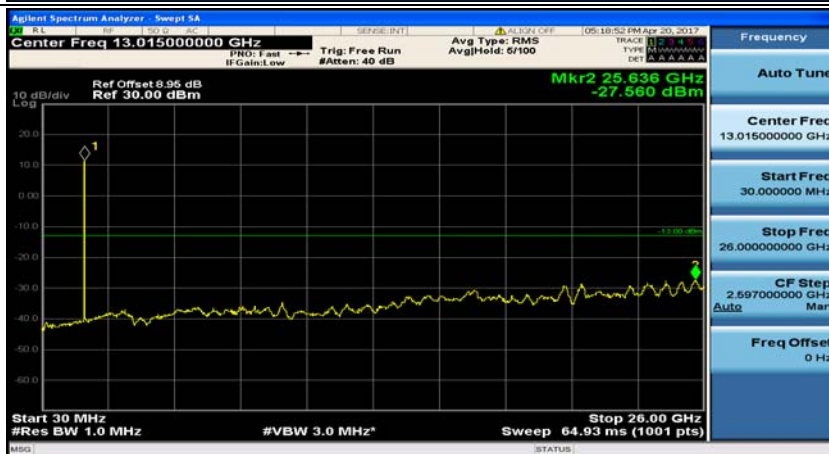
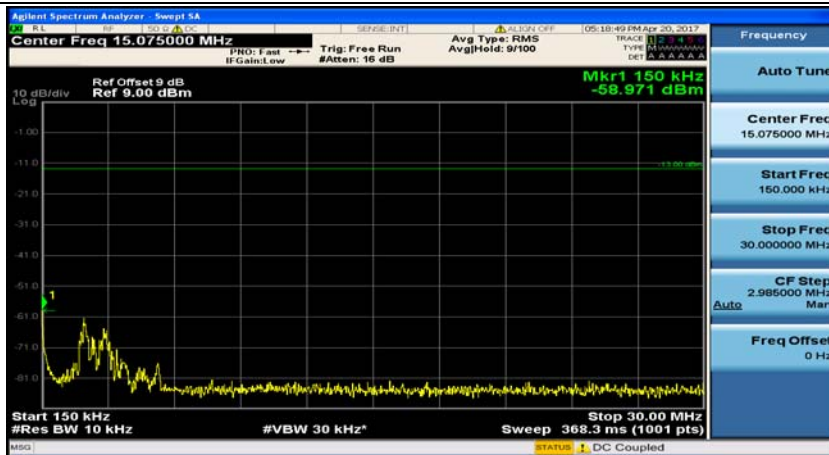
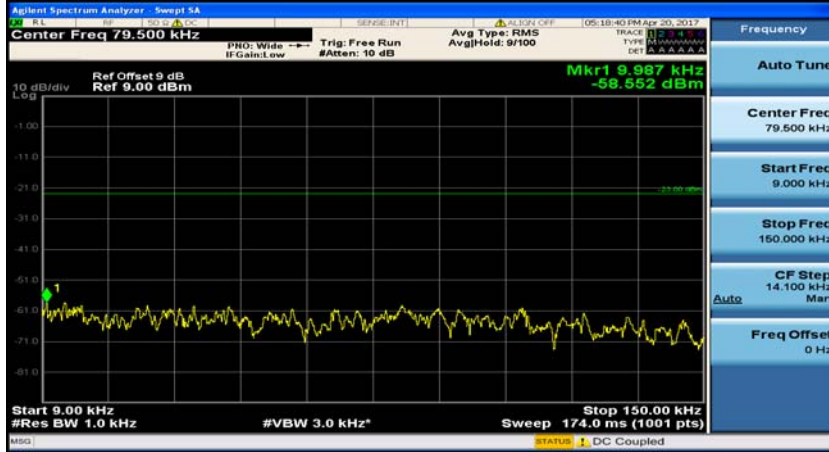


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

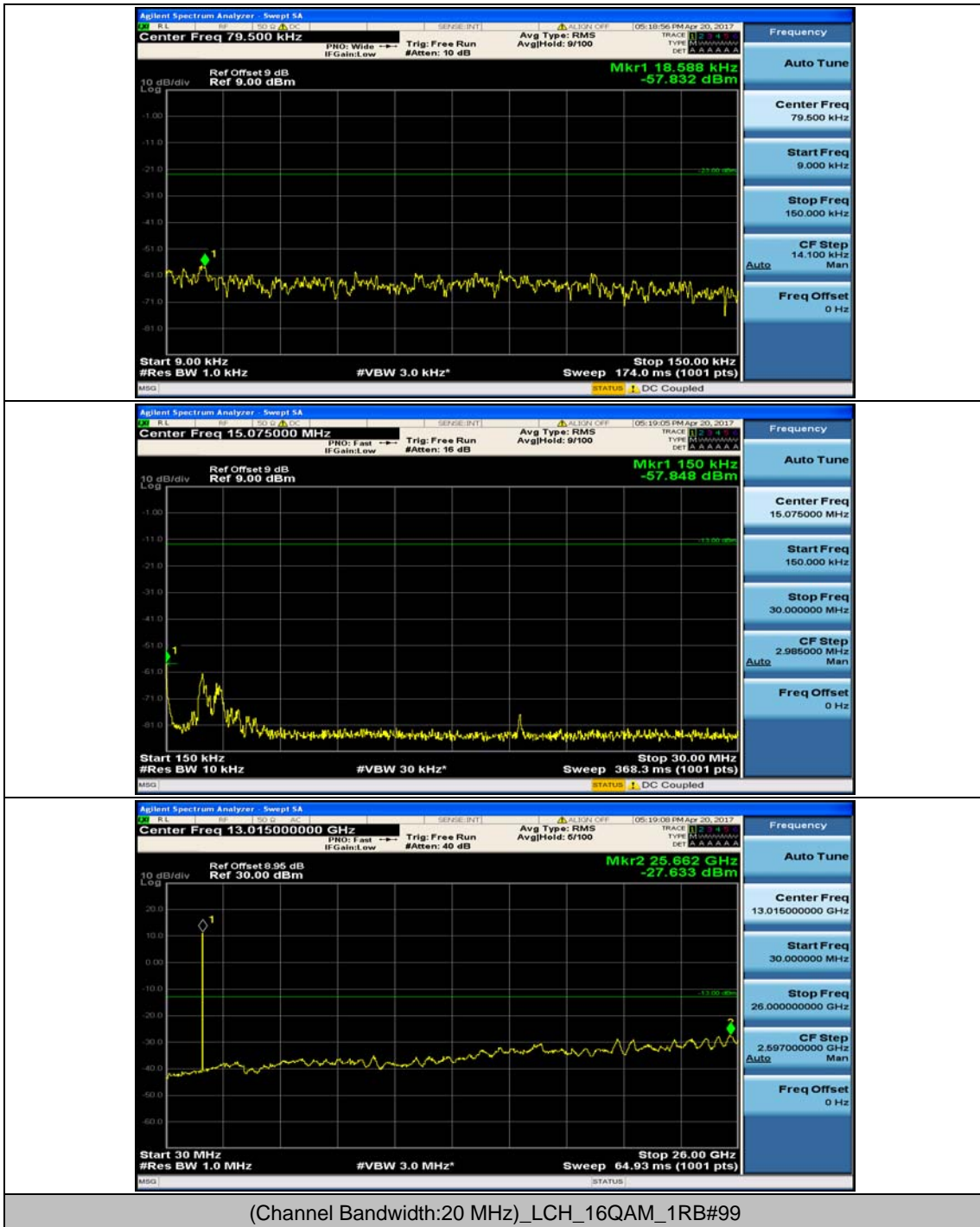


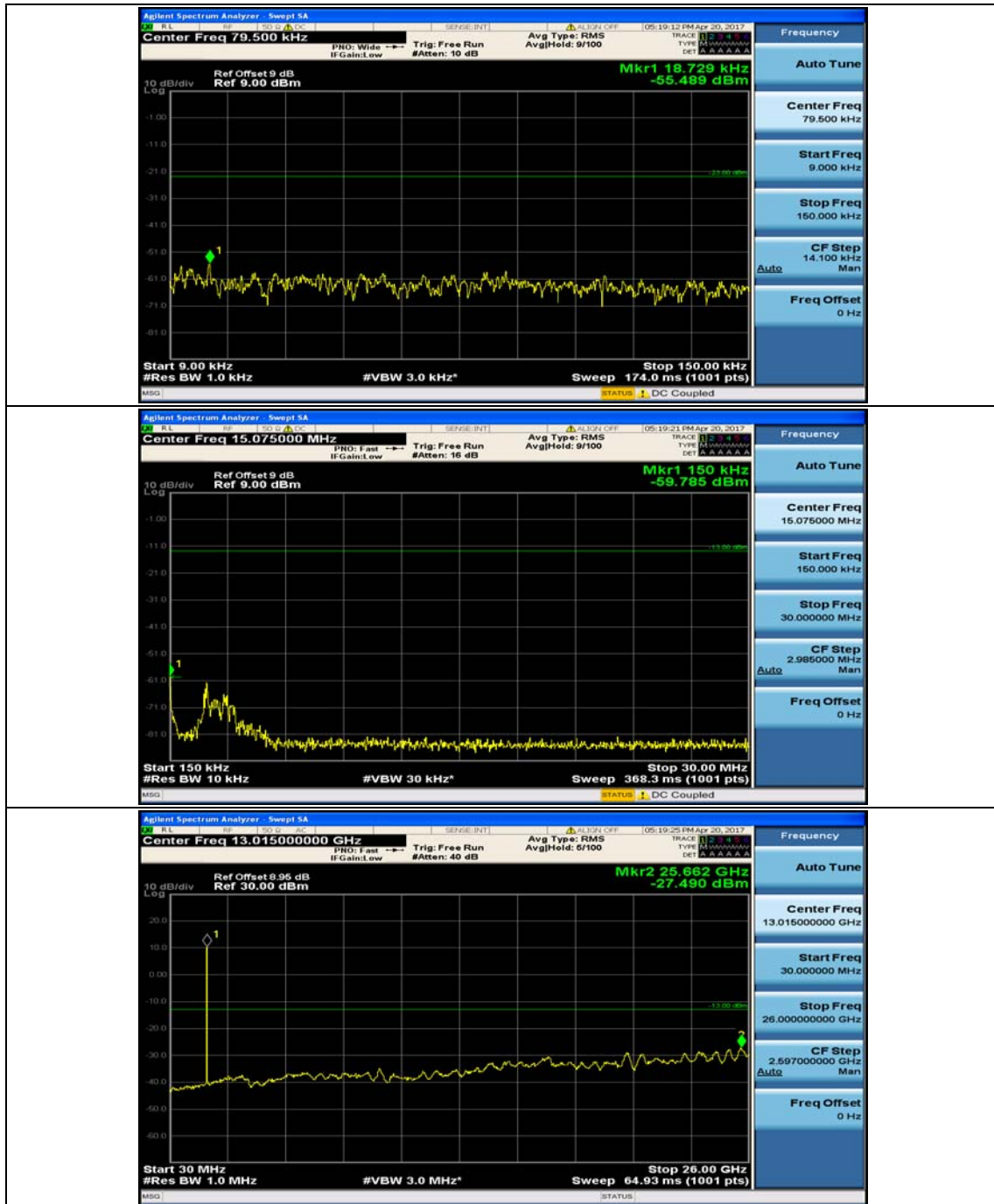


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

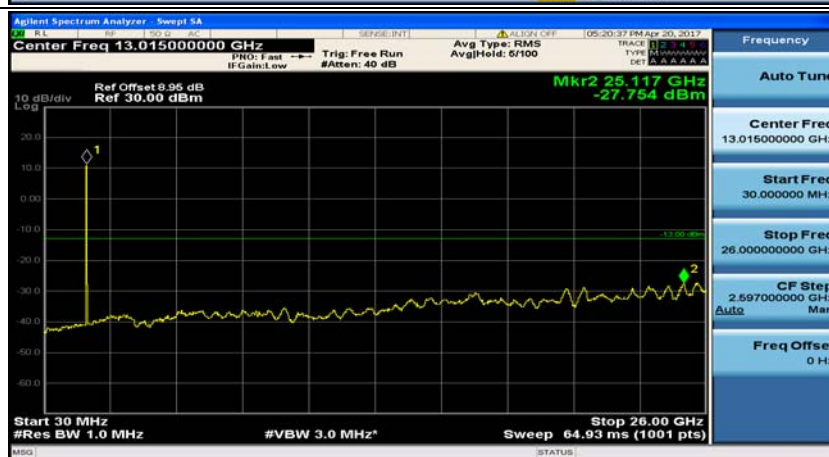
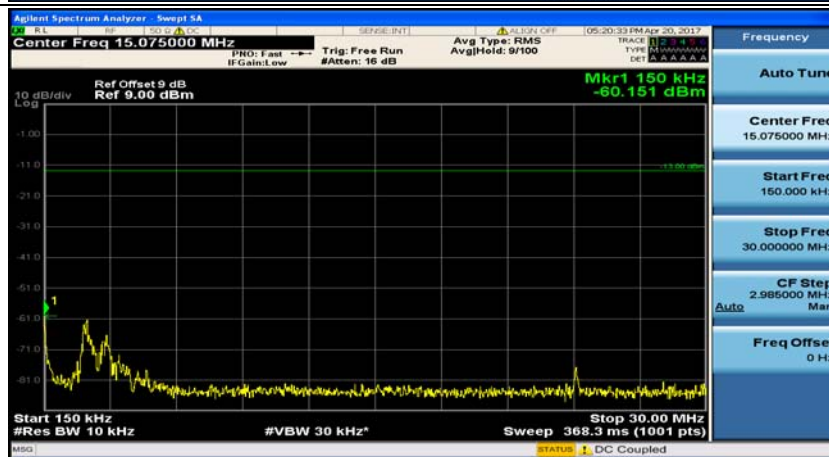
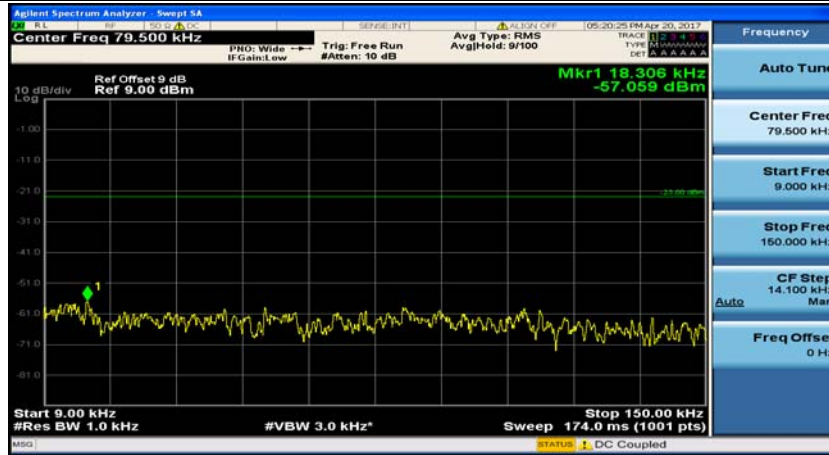


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

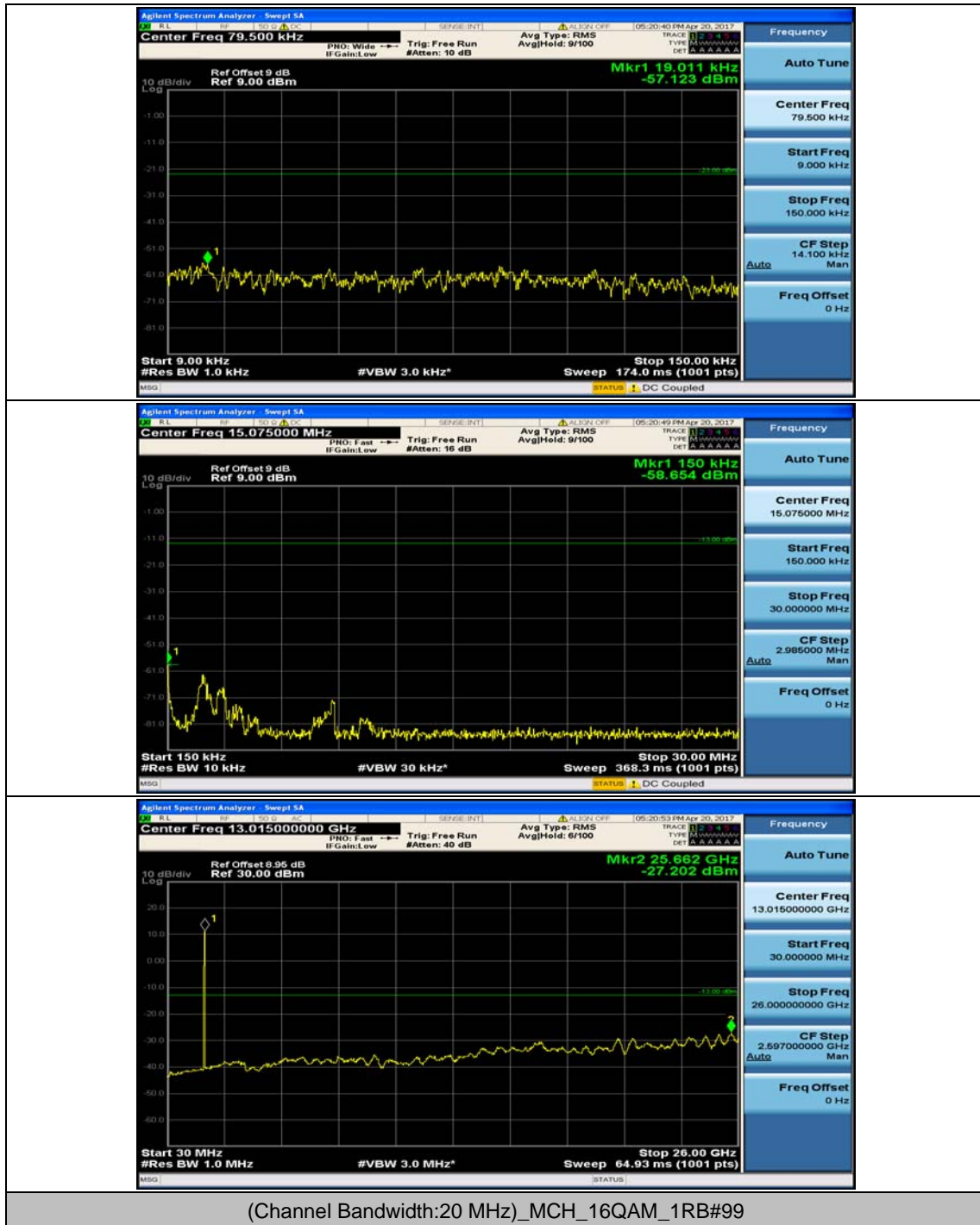


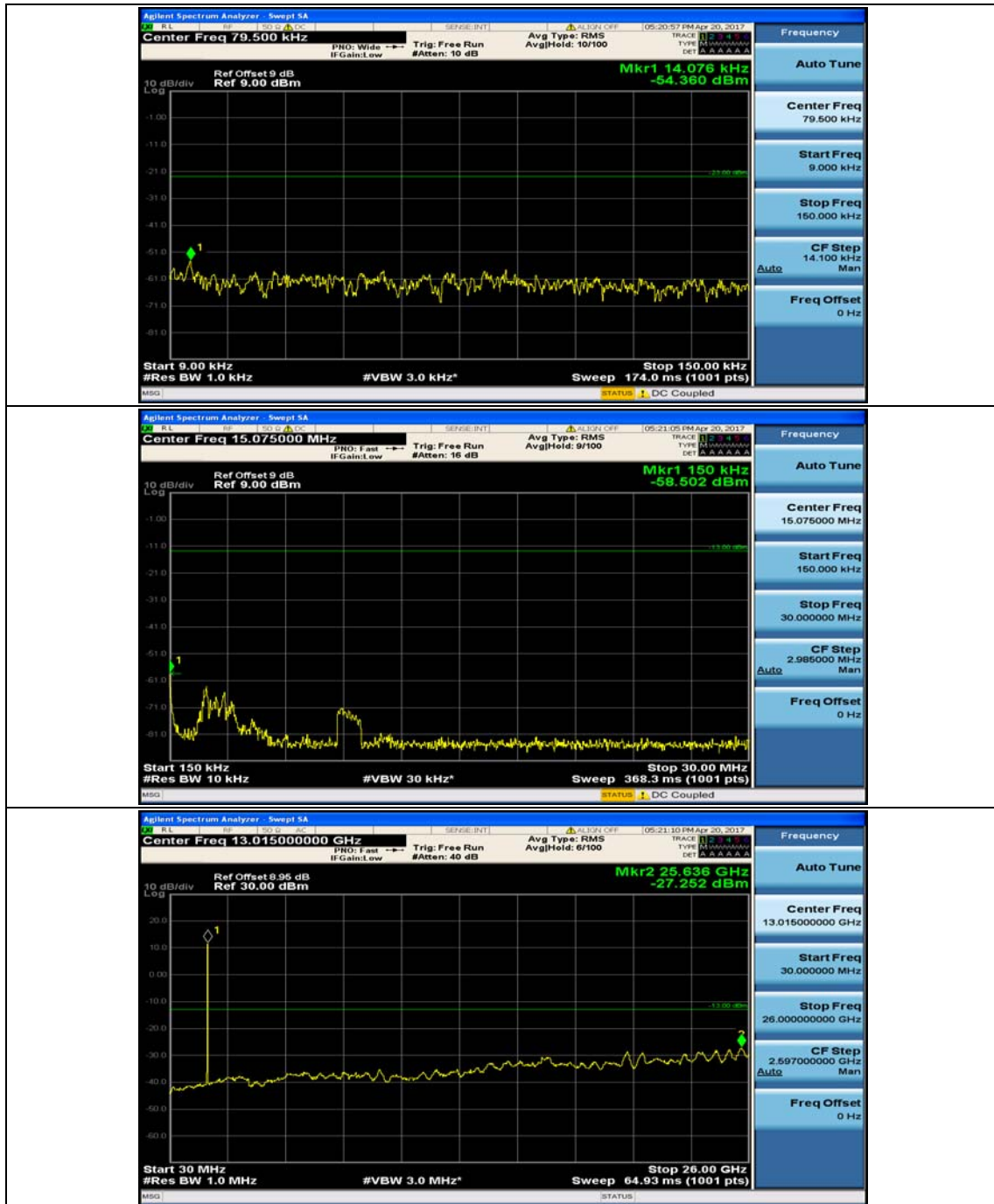


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

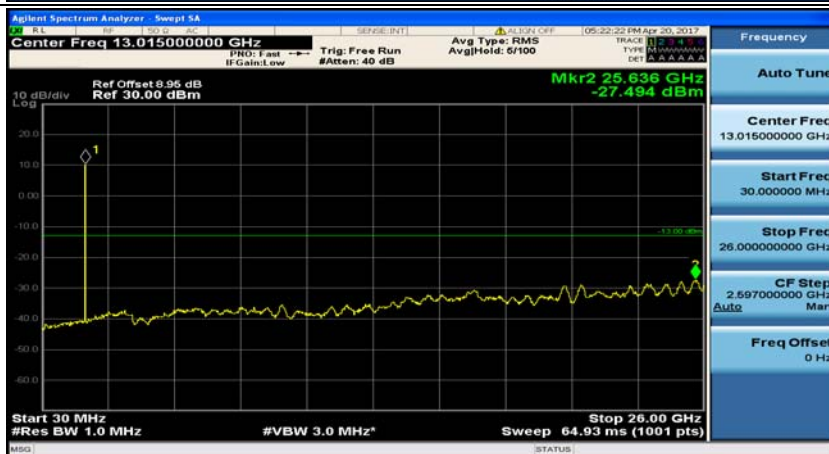


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

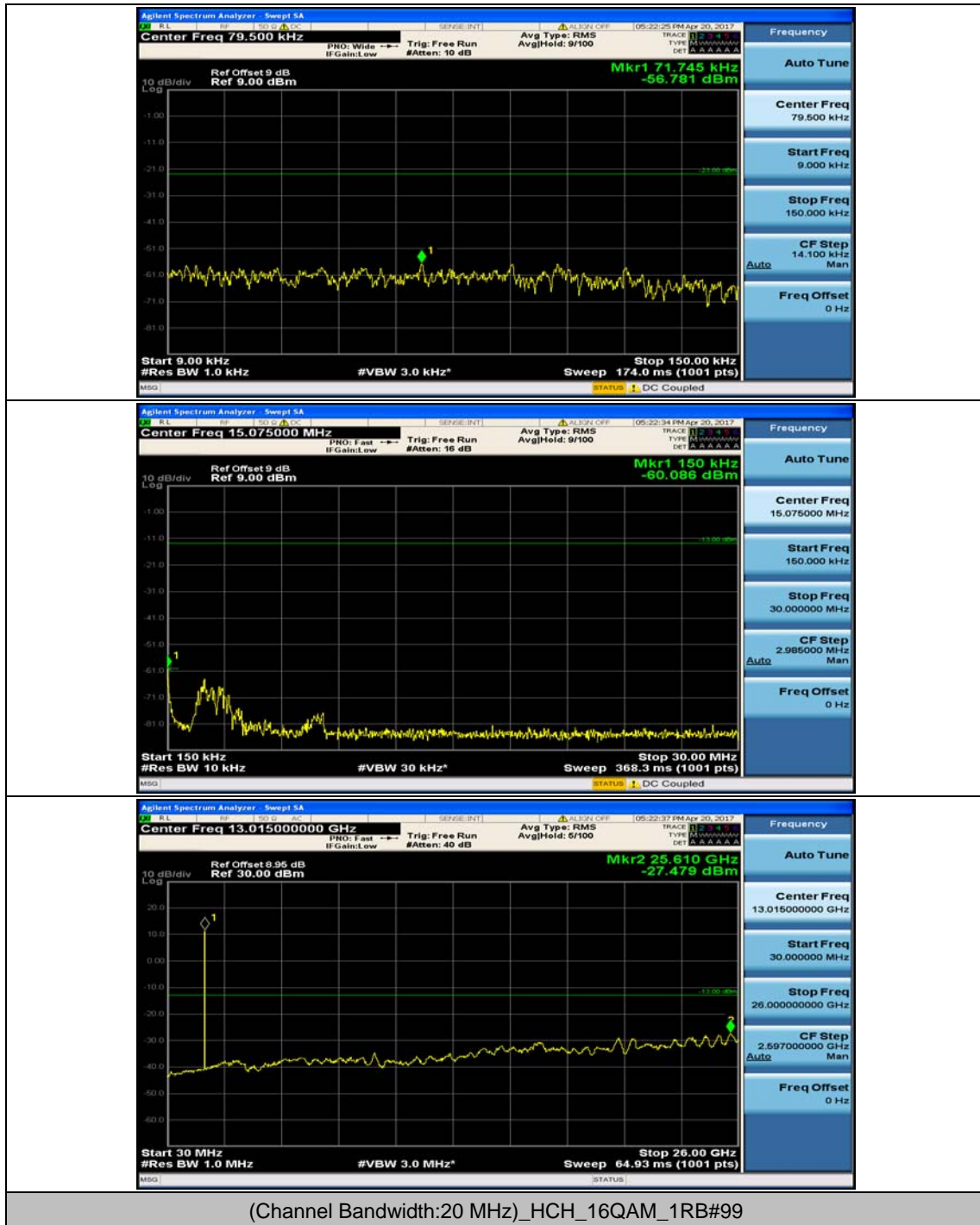


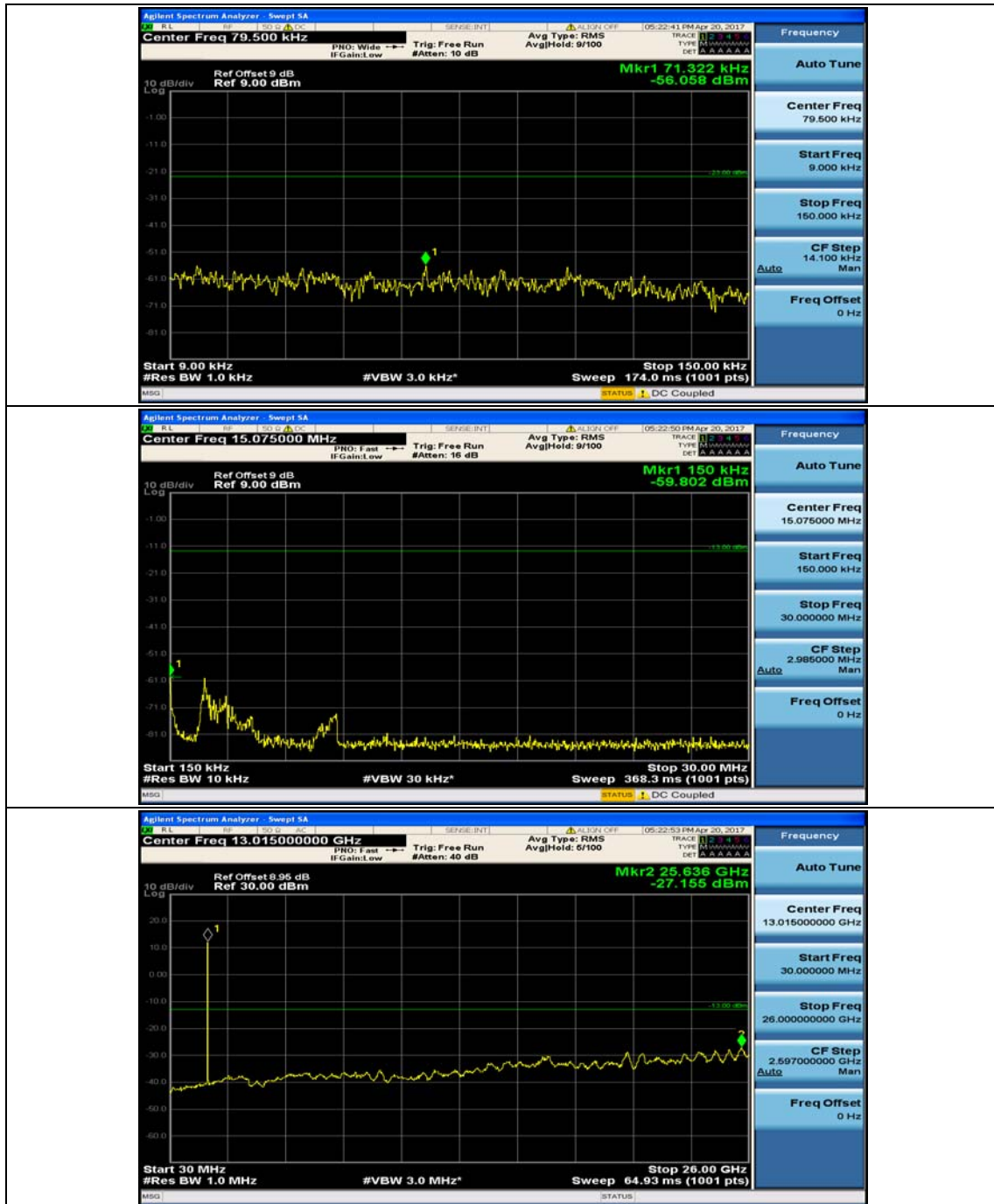


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49





Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

| Channel Bandwidth: 1.4 MHz | | | | | | | |
|----------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 1.99 | 0.001163 | ± 2.5 | PASS |
| | | VN | TN | 4.94 | 0.002888 | ± 2.5 | PASS |
| | | VH | TN | -1.59 | -0.000929 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.57 | 0.002061 | ± 2.5 | PASS |
| | | VN | TN | -1.4 | -0.000808 | ± 2.5 | PASS |
| | | VH | TN | 4.24 | 0.002447 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.35 | -0.000200 | ± 2.5 | PASS |
| | | VN | TN | 4 | 0.002280 | ± 2.5 | PASS |
| | | VH | TN | 4.28 | 0.002440 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -1.11 | -0.000649 | ± 2.5 | PASS |
| | | VN | TN | 1.84 | 0.001076 | ± 2.5 | PASS |
| | | VH | TN | -0.22 | -0.000129 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.94 | 0.000543 | ± 2.5 | PASS |
| | | VN | TN | -1.99 | -0.001149 | ± 2.5 | PASS |
| | | VH | TN | 0.51 | 0.000294 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.14 | 0.001220 | ± 2.5 | PASS |
| | | VN | TN | 1.47 | 0.000838 | ± 2.5 | PASS |
| | | VH | TN | -0.07 | -0.000040 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -0.31 | -0.000181 | ± 2.5 | PASS |
| | | VN | -20 | 2.52 | 0.001473 | ± 2.5 | PASS |
| | | VN | -10 | 2.1 | 0.001228 | ± 2.5 | PASS |
| | | VN | 0 | 2.41 | 0.001409 | ± 2.5 | PASS |
| | | VN | 10 | 0 | 0.000000 | ± 2.5 | PASS |
| | | VN | 20 | -0.68 | -0.000397 | ± 2.5 | PASS |
| | | VN | 30 | 1.55 | 0.000906 | ± 2.5 | PASS |
| | | VN | 40 | -1.56 | -0.000912 | ± 2.5 | PASS |
| | MCH | VN | -30 | 4.44 | 0.002563 | ± 2.5 | PASS |
| | | VN | -20 | -1.67 | -0.000964 | ± 2.5 | PASS |

| | | | | | | | | | |
|-----|-----|-------|-----|-------|-----------|-------|-----------|-------|------|
| | | VN | -10 | 1.71 | 0.000987 | ± 2.5 | PASS | | |
| | | VN | 0 | 2.38 | 0.001374 | ± 2.5 | PASS | | |
| | | VN | 10 | 1.08 | 0.000623 | ± 2.5 | PASS | | |
| | | VN | 20 | -1.19 | -0.000687 | ± 2.5 | PASS | | |
| | | VN | 30 | -1.4 | -0.000808 | ± 2.5 | PASS | | |
| | | VN | 40 | 3.04 | 0.001755 | ± 2.5 | PASS | | |
| | | VN | 50 | 4.27 | 0.002465 | ± 2.5 | PASS | | |
| | HCH | VN | -30 | 2.76 | 0.001573 | ± 2.5 | PASS | | |
| | | VN | -20 | 3.46 | 0.001972 | ± 2.5 | PASS | | |
| | | VN | -10 | 0.83 | 0.000473 | ± 2.5 | PASS | | |
| | | VN | 0 | 0.43 | 0.000245 | ± 2.5 | PASS | | |
| | | VN | 10 | 1.17 | 0.000667 | ± 2.5 | PASS | | |
| | | VN | 20 | 1.22 | 0.000695 | ± 2.5 | PASS | | |
| | | VN | 30 | 1.32 | 0.000752 | ± 2.5 | PASS | | |
| | | VN | 40 | 2.57 | 0.001465 | ± 2.5 | PASS | | |
| | | VN | 50 | 0.78 | 0.000445 | ± 2.5 | PASS | | |
| | | 16QAM | LCH | VN | -30 | -0.7 | -0.000409 | ± 2.5 | PASS |
| | | | | VN | -20 | 4.52 | 0.002642 | ± 2.5 | PASS |
| VN | -10 | | | 4.36 | 0.002549 | ± 2.5 | PASS | | |
| VN | 0 | | | 3.87 | 0.002262 | ± 2.5 | PASS | | |
| VN | 10 | | | 4.66 | 0.002724 | ± 2.5 | PASS | | |
| VN | 20 | | | -1.27 | -0.000742 | ± 2.5 | PASS | | |
| VN | 30 | | | -0.43 | -0.000251 | ± 2.5 | PASS | | |
| VN | 40 | | | 1.1 | 0.000643 | ± 2.5 | PASS | | |
| VN | 50 | | | 2.86 | 0.001672 | ± 2.5 | PASS | | |
| MCH | VN | | -30 | -1.29 | -0.000735 | ± 2.5 | PASS | | |
| | VN | | -20 | 4.17 | 0.002377 | ± 2.5 | PASS | | |
| | VN | | -10 | 4.65 | 0.002651 | ± 2.5 | PASS | | |
| | VN | | 0 | 1.11 | 0.000633 | ± 2.5 | PASS | | |
| | VN | | 10 | 0.52 | 0.000296 | ± 2.5 | PASS | | |
| | VN | | 20 | 4.64 | 0.002645 | ± 2.5 | PASS | | |
| | VN | | 30 | -0.85 | -0.000485 | ± 2.5 | PASS | | |
| | VN | | 40 | 1.81 | 0.001032 | ± 2.5 | PASS | | |
| | VN | | 50 | 0.72 | 0.000410 | ± 2.5 | PASS | | |
| HCH | VN | | -30 | -1.58 | -0.000901 | ± 2.5 | PASS | | |
| | VN | | -20 | -1.62 | -0.000923 | ± 2.5 | PASS | | |
| | VN | | -10 | -1.13 | -0.000644 | ± 2.5 | PASS | | |
| | VN | | 0 | 1.09 | 0.000621 | ± 2.5 | PASS | | |
| | VN | | 10 | -1.32 | -0.000752 | ± 2.5 | PASS | | |
| | VN | | 20 | -1.51 | -0.000861 | ± 2.5 | PASS | | |
| | VN | | 30 | 2.82 | 0.001607 | ± 2.5 | PASS | | |

| | | | | | | | |
|--|--|----|----|------|----------|-------|------|
| | | VN | 40 | 0.71 | 0.000405 | ± 2.5 | PASS |
| | | VN | 50 | 3.66 | 0.002086 | ± 2.5 | PASS |

Channel Bandwidth: 3 MHz

| Channel Bandwidth: 3 MHz+ | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.59 | 0.001513 | ± 2.5 | PASS |
| | | VN | TN | -0.56 | -0.000327 | ± 2.5 | PASS |
| | | VH | TN | 4.47 | 0.002612 | ± 2.5 | PASS |
| | MCH | VL | TN | 4.04 | 0.002332 | ± 2.5 | PASS |
| | | VN | TN | 2.7 | 0.001558 | ± 2.5 | PASS |
| | | VH | TN | 4.18 | 0.002413 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.56 | 0.001460 | ± 2.5 | PASS |
| | | VN | TN | 1.2 | 0.000684 | ± 2.5 | PASS |
| | | VH | TN | -1.47 | -0.000838 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -1.09 | -0.000637 | ± 2.5 | PASS |
| | | VN | TN | 0.52 | 0.000304 | ± 2.5 | PASS |
| | | VH | TN | 4.27 | 0.002495 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.84 | 0.002216 | ± 2.5 | PASS |
| | | VN | TN | 4 | 0.002309 | ± 2.5 | PASS |
| | | VH | TN | 3.17 | 0.001830 | ± 2.5 | PASS |
| | HCH | VL | TN | 2.04 | 0.001163 | ± 2.5 | PASS |
| | | VN | TN | 4.07 | 0.002321 | ± 2.5 | PASS |
| | | VH | TN | 3.6 | 0.002053 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 0.46 | 0.000269 | ± 2.5 | PASS |
| | | VN | -20 | 1.41 | 0.000824 | ± 2.5 | PASS |
| | | VN | -10 | 2.29 | 0.001338 | ± 2.5 | PASS |
| | | VN | 0 | -1.14 | -0.000666 | ± 2.5 | PASS |
| | | VN | 10 | -1.64 | -0.000958 | ± 2.5 | PASS |
| | | VN | 20 | 4.19 | 0.002448 | ± 2.5 | PASS |
| | | VN | 30 | 2.24 | 0.001309 | ± 2.5 | PASS |
| | | VN | 40 | 2.03 | 0.001186 | ± 2.5 | PASS |
| | | VN | 50 | -0.64 | -0.000374 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.3 | 0.000173 | ± 2.5 | PASS |
| | | VN | -20 | 4.23 | 0.002442 | ± 2.5 | PASS |
| | | VN | -10 | 1.35 | 0.000779 | ± 2.5 | PASS |

| | | | | | | | | | |
|-----|-----|-------|-----|-------|-----------|-------|-----------|-------|------|
| | | VN | 0 | 0.78 | 0.000450 | ± 2.5 | PASS | | |
| | | VN | 10 | -1.51 | -0.000872 | ± 2.5 | PASS | | |
| | | VN | 20 | 2.98 | 0.001720 | ± 2.5 | PASS | | |
| | | VN | 30 | 1.6 | 0.000924 | ± 2.5 | PASS | | |
| | | VN | 40 | 3.46 | 0.001997 | ± 2.5 | PASS | | |
| | | VN | 50 | -0.06 | -0.000035 | ± 2.5 | PASS | | |
| | HCH | VN | -30 | 1.38 | 0.000787 | ± 2.5 | PASS | | |
| | | VN | -20 | 4.05 | 0.002310 | ± 2.5 | PASS | | |
| | | VN | -10 | -1.7 | -0.000969 | ± 2.5 | PASS | | |
| | | VN | 0 | 0.15 | 0.000086 | ± 2.5 | PASS | | |
| | | VN | 10 | 1.14 | 0.000650 | ± 2.5 | PASS | | |
| | | VN | 20 | 4.08 | 0.002327 | ± 2.5 | PASS | | |
| | | VN | 30 | 3.34 | 0.001905 | ± 2.5 | PASS | | |
| | | VN | 40 | 0.26 | 0.000148 | ± 2.5 | PASS | | |
| | | VN | 50 | 0.79 | 0.000451 | ± 2.5 | PASS | | |
| | | 16QAM | LCH | VN | -30 | -0.92 | -0.000531 | ± 2.5 | PASS |
| | | | | VN | -20 | 1.62 | 0.000935 | ± 2.5 | PASS |
| | | | | VN | -10 | 4.46 | 0.002574 | ± 2.5 | PASS |
| VN | 0 | | | -0.66 | -0.000381 | ± 2.5 | PASS | | |
| VN | 10 | | | -1.15 | -0.000664 | ± 2.5 | PASS | | |
| VN | 20 | | | 0.99 | 0.000571 | ± 2.5 | PASS | | |
| VN | 30 | | | 2.51 | 0.001449 | ± 2.5 | PASS | | |
| VN | 40 | | | 0.14 | 0.000081 | ± 2.5 | PASS | | |
| VN | 50 | | | 2.89 | 0.001668 | ± 2.5 | PASS | | |
| MCH | VN | | -30 | 3.23 | 0.001842 | ± 2.5 | PASS | | |
| | VN | | -20 | 0.17 | 0.000097 | ± 2.5 | PASS | | |
| | VN | | -10 | 3.92 | 0.002236 | ± 2.5 | PASS | | |
| | VN | | 0 | 3.25 | 0.001853 | ± 2.5 | PASS | | |
| | VN | | 10 | -1.04 | -0.000593 | ± 2.5 | PASS | | |
| | VN | | 20 | 2.39 | 0.001363 | ± 2.5 | PASS | | |
| | VN | | 30 | 4.16 | 0.002372 | ± 2.5 | PASS | | |
| | VN | | 40 | 3.96 | 0.002258 | ± 2.5 | PASS | | |
| | VN | | 50 | 0.11 | 0.000063 | ± 2.5 | PASS | | |
| HCH | VN | | -30 | 3.62 | 0.002064 | ± 2.5 | PASS | | |
| | VN | | -20 | -1.73 | -0.000987 | ± 2.5 | PASS | | |
| | VN | | -10 | 4.25 | 0.002424 | ± 2.5 | PASS | | |
| | VN | | 0 | -1.07 | -0.000610 | ± 2.5 | PASS | | |
| | VN | | 10 | 4.54 | 0.002589 | ± 2.5 | PASS | | |
| | VN | | 20 | -0.93 | -0.000530 | ± 2.5 | PASS | | |
| | VN | | 30 | 2.87 | 0.001637 | ± 2.5 | PASS | | |
| | VN | | 40 | 1.96 | 0.001118 | ± 2.5 | PASS | | |

| | | | | | | | |
|--|--|----|----|------|-----------|-------|------|
| | | VN | 50 | -0.8 | -0.000456 | ± 2.5 | PASS |
|--|--|----|----|------|-----------|-------|------|

Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz | | | | | | | |
|--------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 0.7 | 0.000409 | ± 2.5 | PASS |
| | | VN | TN | 3.77 | 0.002201 | ± 2.5 | PASS |
| | | VH | TN | -1.49 | -0.000870 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.67 | 0.001541 | ± 2.5 | PASS |
| | | VN | TN | -1.91 | -0.001102 | ± 2.5 | PASS |
| | | VH | TN | -1.46 | -0.000843 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.76 | -0.000434 | ± 2.5 | PASS |
| | | VN | TN | 3.06 | 0.001746 | ± 2.5 | PASS |
| | | VH | TN | 4.1 | 0.002340 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -0.35 | -0.000204 | ± 2.5 | PASS |
| | | VN | TN | 2.77 | 0.001618 | ± 2.5 | PASS |
| | | VH | TN | 4.13 | 0.002412 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.53 | -0.000883 | ± 2.5 | PASS |
| | | VN | TN | 4.76 | 0.002747 | ± 2.5 | PASS |
| | | VH | TN | -0.67 | -0.000387 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.82 | -0.000468 | ± 2.5 | PASS |
| | | VN | TN | 0.81 | 0.000462 | ± 2.5 | PASS |
| | | VH | TN | 1.23 | 0.000702 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -0.57 | -0.000333 | ± 2.5 | PASS |
| | | VN | -20 | 2.22 | 0.001296 | ± 2.5 | PASS |
| | | VN | -10 | 4.19 | 0.002447 | ± 2.5 | PASS |
| | | VN | 0 | -0.36 | -0.000210 | ± 2.5 | PASS |
| | | VN | 10 | -1.29 | -0.000753 | ± 2.5 | PASS |
| | | VN | 20 | 3.25 | 0.001898 | ± 2.5 | PASS |
| | | VN | 30 | 2.42 | 0.001413 | ± 2.5 | PASS |
| | | VN | 40 | -1.43 | -0.000835 | ± 2.5 | PASS |
| | | VN | 50 | -1.91 | -0.001115 | ± 2.5 | PASS |
| | MCH | VN | -30 | 2.48 | 0.001431 | ± 2.5 | PASS |
| | | VN | -20 | 0.21 | 0.000121 | ± 2.5 | PASS |
| | | VN | -10 | -0.96 | -0.000554 | ± 2.5 | PASS |
| | | VN | 0 | 2.22 | 0.001281 | ± 2.5 | PASS |

| | | | | | | | |
|-----|-----|-------|-----|-------|-----------|-------|-----------|
| | | VN | 10 | -0.32 | -0.000185 | ± 2.5 | PASS |
| | | VN | 20 | -1.54 | -0.000889 | ± 2.5 | PASS |
| | | VN | 30 | 1.45 | 0.000837 | ± 2.5 | PASS |
| | | VN | 40 | 1.92 | 0.001108 | ± 2.5 | PASS |
| | | VN | 50 | -1.13 | -0.000652 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.6 | 0.002625 | ± 2.5 | PASS |
| | | VN | -20 | 3.32 | 0.001740 | ± 2.5 | PASS |
| | | VN | -10 | -0.69 | -0.000362 | ± 2.5 | PASS |
| | | VN | 0 | 1.75 | 0.000917 | ± 2.5 | PASS |
| | | VN | 10 | 3.69 | 0.001934 | ± 2.5 | PASS |
| | | VN | 20 | -0.63 | -0.000330 | ± 2.5 | PASS |
| | | VN | 30 | -0.97 | -0.000509 | ± 2.5 | PASS |
| | | VN | 40 | 3.44 | 0.001803 | ± 2.5 | PASS |
| | | VN | 50 | -0.72 | -0.000377 | ± 2.5 | PASS |
| | | 16QAM | LCH | VN | -30 | -1.65 | -0.000952 |
| VN | -20 | | | -0.17 | -0.000098 | ± 2.5 | PASS |
| VN | -10 | | | 2.41 | 0.001391 | ± 2.5 | PASS |
| VN | 0 | | | 0.74 | 0.000427 | ± 2.5 | PASS |
| VN | 10 | | | -1 | -0.000577 | ± 2.5 | PASS |
| VN | 20 | | | 0.34 | 0.000196 | ± 2.5 | PASS |
| VN | 30 | | | 2.43 | 0.001403 | ± 2.5 | PASS |
| VN | 40 | | | -0.97 | -0.000560 | ± 2.5 | PASS |
| VN | 50 | | | -1.34 | -0.000773 | ± 2.5 | PASS |
| MCH | VN | | -30 | -1.69 | -0.000964 | ± 2.5 | PASS |
| | VN | | -20 | 2.1 | 0.001198 | ± 2.5 | PASS |
| | VN | | -10 | 1.12 | 0.000639 | ± 2.5 | PASS |
| | VN | | 0 | -2 | -0.001141 | ± 2.5 | PASS |
| | VN | | 10 | -1.97 | -0.001124 | ± 2.5 | PASS |
| | VN | | 20 | -1.45 | -0.000827 | ± 2.5 | PASS |
| | VN | | 30 | 4.11 | 0.002345 | ± 2.5 | PASS |
| | VN | | 40 | 2.48 | 0.001415 | ± 2.5 | PASS |
| | VN | | 50 | 3.25 | 0.001854 | ± 2.5 | PASS |
| HCH | VN | | -30 | 3.49 | 0.001830 | ± 2.5 | PASS |
| | VN | | -20 | -0.93 | -0.000488 | ± 2.5 | PASS |
| | VN | | -10 | 3.24 | 0.001699 | ± 2.5 | PASS |
| | VN | | 0 | 1.37 | 0.000718 | ± 2.5 | PASS |
| | VN | | 10 | -1.54 | -0.000807 | ± 2.5 | PASS |
| | VN | | 20 | 0.51 | 0.000267 | ± 2.5 | PASS |
| | VN | | 30 | 0.03 | 0.000016 | ± 2.5 | PASS |
| | VN | | 40 | -1.16 | -0.000608 | ± 2.5 | PASS |
| | VN | | 50 | -0.24 | -0.000126 | ± 2.5 | PASS |

Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | -1.55 | -0.000904 | ± 2.5 | PASS |
| | | VN | TN | -1.57 | -0.000915 | ± 2.5 | PASS |
| | | VH | TN | -1.73 | -0.001009 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.02 | -0.000012 | ± 2.5 | PASS |
| | | VN | TN | -0.04 | -0.000023 | ± 2.5 | PASS |
| | | VH | TN | -1.64 | -0.000947 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.87 | 0.002211 | ± 2.5 | PASS |
| | | VN | TN | 2.56 | 0.001463 | ± 2.5 | PASS |
| | | VH | TN | 0.48 | 0.000274 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 1.42 | 0.000828 | ± 2.5 | PASS |
| | | VN | TN | 2.22 | 0.001294 | ± 2.5 | PASS |
| | | VH | TN | 2.89 | 0.001685 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.93 | -0.001114 | ± 2.5 | PASS |
| | | VN | TN | -0.48 | -0.000277 | ± 2.5 | PASS |
| | | VH | TN | 2.47 | 0.001426 | ± 2.5 | PASS |
| | HCH | VL | TN | -1.7 | -0.000971 | ± 2.5 | PASS |
| | | VN | TN | 2.13 | 0.001217 | ± 2.5 | PASS |
| | | VH | TN | -0.65 | -0.000371 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -1.72 | -0.001003 | ± 2.5 | PASS |
| | | VN | -20 | 3.49 | 0.002035 | ± 2.5 | PASS |
| | | VN | -10 | 0.08 | 0.000047 | ± 2.5 | PASS |
| | | VN | 0 | 3.32 | 0.001936 | ± 2.5 | PASS |
| | | VN | 10 | 1.54 | 0.000898 | ± 2.5 | PASS |
| | | VN | 20 | -0.22 | -0.000128 | ± 2.5 | PASS |
| | | VN | 30 | -1.07 | -0.000624 | ± 2.5 | PASS |
| | | VN | 40 | 0.57 | 0.000332 | ± 2.5 | PASS |
| | MCH | VN | 50 | 2.01 | 0.001172 | ± 2.5 | PASS |
| | | VN | -30 | 3.29 | 0.001899 | ± 2.5 | PASS |
| | | VN | -20 | -1.28 | -0.000739 | ± 2.5 | PASS |
| | | VN | -10 | -0.81 | -0.000468 | ± 2.5 | PASS |
| | | VN | 0 | -0.36 | -0.000208 | ± 2.5 | PASS |
| | | VN | 10 | 2.67 | 0.001541 | ± 2.5 | PASS |
| VN | 20 | 1.88 | 0.001085 | ± 2.5 | PASS | | |

| | | | | | | | |
|-------|-----|----|-----|-------|-----------|-------|------|
| | | VN | 30 | 4.5 | 0.002597 | ± 2.5 | PASS |
| | | VN | 40 | 3.69 | 0.002130 | ± 2.5 | PASS |
| | | VN | 50 | 0.22 | 0.000127 | ± 2.5 | PASS |
| | HCH | VN | -30 | 4.55 | 0.002600 | ± 2.5 | PASS |
| | | VN | -20 | 3.25 | 0.001857 | ± 2.5 | PASS |
| | | VN | -10 | 1.11 | 0.000634 | ± 2.5 | PASS |
| | | VN | 0 | 2.97 | 0.001697 | ± 2.5 | PASS |
| | | VN | 10 | -0.19 | -0.000109 | ± 2.5 | PASS |
| | | VN | 20 | -1.38 | -0.000789 | ± 2.5 | PASS |
| | | VN | 30 | 1.64 | 0.000937 | ± 2.5 | PASS |
| | | VN | 40 | 0.84 | 0.000480 | ± 2.5 | PASS |
| | | VN | 50 | 1.63 | 0.000931 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -1.35 | -0.000779 | ± 2.5 | PASS |
| | | VN | -20 | 2.08 | 0.001201 | ± 2.5 | PASS |
| | | VN | -10 | -1.08 | -0.000623 | ± 2.5 | PASS |
| | | VN | 0 | 1.56 | 0.000900 | ± 2.5 | PASS |
| | | VN | 10 | 3.39 | 0.001957 | ± 2.5 | PASS |
| | | VN | 20 | 2.06 | 0.001189 | ± 2.5 | PASS |
| | | VN | 30 | 1.44 | 0.000831 | ± 2.5 | PASS |
| | | VN | 40 | 2.32 | 0.001339 | ± 2.5 | PASS |
| | | VN | 50 | 2.31 | 0.001333 | ± 2.5 | PASS |
| | MCH | VN | -30 | -1.45 | -0.000829 | ± 2.5 | PASS |
| | | VN | -20 | 3.79 | 0.002166 | ± 2.5 | PASS |
| | | VN | -10 | 1.93 | 0.001103 | ± 2.5 | PASS |
| | | VN | 0 | -0.01 | -0.000006 | ± 2.5 | PASS |
| | | VN | 10 | -0.93 | -0.000531 | ± 2.5 | PASS |
| | | VN | 20 | 2.9 | 0.001657 | ± 2.5 | PASS |
| | | VN | 30 | 1.4 | 0.000800 | ± 2.5 | PASS |
| | | VN | 40 | 0.38 | 0.000217 | ± 2.5 | PASS |
| | | VN | 50 | 1.85 | 0.001057 | ± 2.5 | PASS |
| | HCH | VN | -30 | 2.59 | 0.001480 | ± 2.5 | PASS |
| | | VN | -20 | 0.77 | 0.000440 | ± 2.5 | PASS |
| | | VN | -10 | -1.37 | -0.000783 | ± 2.5 | PASS |
| | | VN | 0 | -1.42 | -0.000811 | ± 2.5 | PASS |
| | | VN | 10 | -1.98 | -0.001131 | ± 2.5 | PASS |
| | | VN | 20 | -0.4 | -0.000229 | ± 2.5 | PASS |
| | | VN | 30 | 1.13 | 0.000646 | ± 2.5 | PASS |
| | | VN | 40 | 2.77 | 0.001583 | ± 2.5 | PASS |
| | | VN | 50 | 0.42 | 0.000240 | ± 2.5 | PASS |

Channel Bandwidth: 15 MHz

| Channel Bandwidth: 15 MHz | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.02 | 0.001176 | ± 2.5 | PASS |
| | | VN | TN | 2.6 | 0.001514 | ± 2.5 | PASS |
| | | VH | TN | 3.84 | 0.002236 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.61 | -0.000352 | ± 2.5 | PASS |
| | | VN | TN | 4.15 | 0.002395 | ± 2.5 | PASS |
| | | VH | TN | 1.85 | 0.001068 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.28 | -0.000160 | ± 2.5 | PASS |
| | | VN | TN | -1.37 | -0.000784 | ± 2.5 | PASS |
| | | VH | TN | 1.45 | 0.000830 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 3.52 | 0.002049 | ± 2.5 | PASS |
| | | VN | TN | 3.14 | 0.001828 | ± 2.5 | PASS |
| | | VH | TN | -0.25 | -0.000146 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.03 | 0.001172 | ± 2.5 | PASS |
| | | VN | TN | 3.99 | 0.002303 | ± 2.5 | PASS |
| | | VH | TN | -1.85 | -0.001068 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.43 | -0.000246 | ± 2.5 | PASS |
| | | VN | TN | 0.27 | 0.000155 | ± 2.5 | PASS |
| | | VH | TN | -1.65 | -0.000944 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -0.84 | -0.000489 | ± 2.5 | PASS |
| | | VN | -20 | 2.22 | 0.001293 | ± 2.5 | PASS |
| | | VN | -10 | 4.18 | 0.002434 | ± 2.5 | PASS |
| | | VN | 0 | 3.04 | 0.001770 | ± 2.5 | PASS |
| | | VN | 10 | 2.38 | 0.001386 | ± 2.5 | PASS |
| | | VN | 20 | -1.54 | -0.000897 | ± 2.5 | PASS |
| | | VN | 30 | 4.06 | 0.002364 | ± 2.5 | PASS |
| | | VN | 40 | 0.65 | 0.000378 | ± 2.5 | PASS |
| | | VN | 50 | 0.35 | 0.000204 | ± 2.5 | PASS |
| | MCH | VN | -30 | 2.18 | 0.001258 | ± 2.5 | PASS |
| | | VN | -20 | 3.26 | 0.001882 | ± 2.5 | PASS |
| | | VN | -10 | -1.49 | -0.000860 | ± 2.5 | PASS |
| | | VN | 0 | 3.65 | 0.002107 | ± 2.5 | PASS |
| | | VN | 10 | 3.48 | 0.002009 | ± 2.5 | PASS |
| | | VN | 20 | 3.01 | 0.001737 | ± 2.5 | PASS |

| | | | | | | | |
|-------|-----|----|-----|-------|-----------|-------|------|
| | | VN | 30 | 3.5 | 0.002020 | ± 2.5 | PASS |
| | | VN | 40 | -1.35 | -0.000779 | ± 2.5 | PASS |
| | | VN | 50 | -1.96 | -0.001131 | ± 2.5 | PASS |
| | HCH | VN | -30 | -0.47 | -0.000269 | ± 2.5 | PASS |
| | | VN | -20 | -0.6 | -0.000343 | ± 2.5 | PASS |
| | | VN | -10 | 2.88 | 0.001648 | ± 2.5 | PASS |
| | | VN | 0 | 2.9 | 0.001660 | ± 2.5 | PASS |
| | | VN | 10 | 4.99 | 0.002856 | ± 2.5 | PASS |
| | | VN | 20 | 0.05 | 0.000029 | ± 2.5 | PASS |
| | | VN | 30 | 3.88 | 0.002220 | ± 2.5 | PASS |
| | | VN | 40 | -0.82 | -0.000469 | ± 2.5 | PASS |
| | | VN | 50 | 1.07 | 0.000612 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -1.84 | -0.001062 | ± 2.5 | PASS |
| | | VN | -20 | 0.92 | 0.000531 | ± 2.5 | PASS |
| | | VN | -10 | 1.36 | 0.000785 | ± 2.5 | PASS |
| | | VN | 0 | -1.87 | -0.001079 | ± 2.5 | PASS |
| | | VN | 10 | 1.88 | 0.001085 | ± 2.5 | PASS |
| | | VN | 20 | -1.43 | -0.000825 | ± 2.5 | PASS |
| | | VN | 30 | 1.91 | 0.001102 | ± 2.5 | PASS |
| | | VN | 40 | -1.89 | -0.001091 | ± 2.5 | PASS |
| | | VN | 50 | 3.81 | 0.002199 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.71 | 0.002123 | ± 2.5 | PASS |
| | | VN | -20 | -0.58 | -0.000332 | ± 2.5 | PASS |
| | | VN | -10 | 2.1 | 0.001202 | ± 2.5 | PASS |
| | | VN | 0 | 1.05 | 0.000601 | ± 2.5 | PASS |
| | | VN | 10 | 3.47 | 0.001986 | ± 2.5 | PASS |
| | | VN | 20 | 3.33 | 0.001906 | ± 2.5 | PASS |
| | | VN | 30 | 3.51 | 0.002009 | ± 2.5 | PASS |
| | | VN | 40 | -0.29 | -0.000166 | ± 2.5 | PASS |
| | | VN | 50 | 3.86 | 0.002209 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.39 | 0.001940 | ± 2.5 | PASS |
| | | VN | -20 | 0.74 | 0.000423 | ± 2.5 | PASS |
| | | VN | -10 | -1.36 | -0.000778 | ± 2.5 | PASS |
| | | VN | 0 | -0.32 | -0.000183 | ± 2.5 | PASS |
| | | VN | 10 | 0.26 | 0.000149 | ± 2.5 | PASS |
| | | VN | 20 | 3.95 | 0.002260 | ± 2.5 | PASS |
| | | VN | 30 | 3.03 | 0.001734 | ± 2.5 | PASS |
| | | VN | 40 | 1.01 | 0.000578 | ± 2.5 | PASS |
| | | VN | 50 | -1.22 | -0.000698 | ± 2.5 | PASS |

Channel Bandwidth: 20 MHz

| Channel Bandwidth: 20 MHz | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.29 | 0.001331 | ± 2.5 | PASS |
| | | VN | TN | -0.67 | -0.000390 | ± 2.5 | PASS |
| | | VH | TN | -1.78 | -0.001035 | ± 2.5 | PASS |
| | MCH | VL | TN | 3.04 | 0.001755 | ± 2.5 | PASS |
| | | VN | TN | -0.43 | -0.000248 | ± 2.5 | PASS |
| | | VH | TN | -1.17 | -0.000675 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.62 | 0.002648 | ± 2.5 | PASS |
| | | VN | TN | -0.17 | -0.000097 | ± 2.5 | PASS |
| | | VH | TN | 3.67 | 0.002103 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | 1.31 | 0.000762 | ± 2.5 | PASS |
| | | VN | TN | -0.33 | -0.000192 | ± 2.5 | PASS |
| | | VH | TN | 2.59 | 0.001506 | ± 2.5 | PASS |
| | MCH | VL | TN | -1.07 | -0.000618 | ± 2.5 | PASS |
| | | VN | TN | -1.33 | -0.000768 | ± 2.5 | PASS |
| | | VH | TN | -1.66 | -0.000958 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.94 | 0.002258 | ± 2.5 | PASS |
| | | VN | TN | 2.45 | 0.001404 | ± 2.5 | PASS |
| | | VH | TN | 3.46 | 0.001983 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 3.91 | 0.002273 | ± 2.5 | PASS |
| | | VN | -20 | -0.03 | -0.000017 | ± 2.5 | PASS |
| | | VN | -10 | 1 | 0.000581 | ± 2.5 | PASS |
| | | VN | 0 | 1.19 | 0.000692 | ± 2.5 | PASS |
| | | VN | 10 | 2.66 | 0.001547 | ± 2.5 | PASS |
| | | VN | 20 | 2 | 0.001163 | ± 2.5 | PASS |
| | | VN | 30 | 0.52 | 0.000302 | ± 2.5 | PASS |
| | | VN | 40 | 3.16 | 0.001837 | ± 2.5 | PASS |
| | | VN | 50 | 0.71 | 0.000413 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.97 | 0.000560 | ± 2.5 | PASS |
| | | VN | -20 | 2.83 | 0.001633 | ± 2.5 | PASS |
| | | VN | -10 | 3.82 | 0.002205 | ± 2.5 | PASS |
| | | VN | 0 | -1.09 | -0.000629 | ± 2.5 | PASS |
| | | VN | 10 | 1.69 | 0.000975 | ± 2.5 | PASS |
| | | VN | 20 | 2.19 | 0.001264 | ± 2.5 | PASS |

| | | | | | | | |
|-------|-----|----|-----|-------|-----------|-------|------|
| | | VN | 30 | 4.14 | 0.002390 | ± 2.5 | PASS |
| | | VN | 40 | 4.01 | 0.002315 | ± 2.5 | PASS |
| | | VN | 50 | 0.88 | 0.000508 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.6 | 0.002063 | ± 2.5 | PASS |
| | | VN | -20 | 4.19 | 0.002401 | ± 2.5 | PASS |
| | | VN | -10 | 2.94 | 0.001685 | ± 2.5 | PASS |
| | | VN | 0 | 4.81 | 0.002756 | ± 2.5 | PASS |
| | | VN | 10 | 4.42 | 0.002533 | ± 2.5 | PASS |
| | | VN | 20 | 1.81 | 0.001037 | ± 2.5 | PASS |
| | | VN | 30 | 1.48 | 0.000848 | ± 2.5 | PASS |
| | | VN | 40 | 1.18 | 0.000676 | ± 2.5 | PASS |
| | | VN | 50 | -0.62 | -0.000355 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -0.17 | -0.000098 | ± 2.5 | PASS |
| | | VN | -20 | 0.74 | 0.000427 | ± 2.5 | PASS |
| | | VN | -10 | 1.66 | 0.000958 | ± 2.5 | PASS |
| | | VN | 0 | 1.67 | 0.000964 | ± 2.5 | PASS |
| | | VN | 10 | -0.8 | -0.000462 | ± 2.5 | PASS |
| | | VN | 20 | 4.96 | 0.002863 | ± 2.5 | PASS |
| | | VN | 30 | 1.75 | 0.001010 | ± 2.5 | PASS |
| | | VN | 40 | 0.82 | 0.000473 | ± 2.5 | PASS |
| | | VN | 50 | 2.11 | 0.001218 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.71 | 0.000407 | ± 2.5 | PASS |
| | | VN | -20 | 4.3 | 0.002464 | ± 2.5 | PASS |
| | | VN | -10 | 2.03 | 0.001163 | ± 2.5 | PASS |
| | | VN | 0 | -1 | -0.000573 | ± 2.5 | PASS |
| | | VN | 10 | 4.87 | 0.002791 | ± 2.5 | PASS |
| | | VN | 20 | 2.63 | 0.001507 | ± 2.5 | PASS |
| | | VN | 30 | -0.37 | -0.000212 | ± 2.5 | PASS |
| | | VN | 40 | 3.6 | 0.002063 | ± 2.5 | PASS |
| | | VN | 50 | 1.83 | 0.001049 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.22 | 0.001845 | ± 2.5 | PASS |
| | | VN | -20 | 2.54 | 0.001456 | ± 2.5 | PASS |
| | | VN | -10 | -0.2 | -0.000115 | ± 2.5 | PASS |
| | | VN | 0 | -1.05 | -0.000602 | ± 2.5 | PASS |
| | | VN | 10 | 3.91 | 0.002241 | ± 2.5 | PASS |
| | | VN | 20 | 1.78 | 0.001020 | ± 2.5 | PASS |
| | | VN | 30 | 2.27 | 0.001301 | ± 2.5 | PASS |
| | | VN | 40 | -0.7 | -0.000401 | ± 2.5 | PASS |
| | | VN | 50 | 0.76 | 0.000436 | ± 2.5 | PASS |