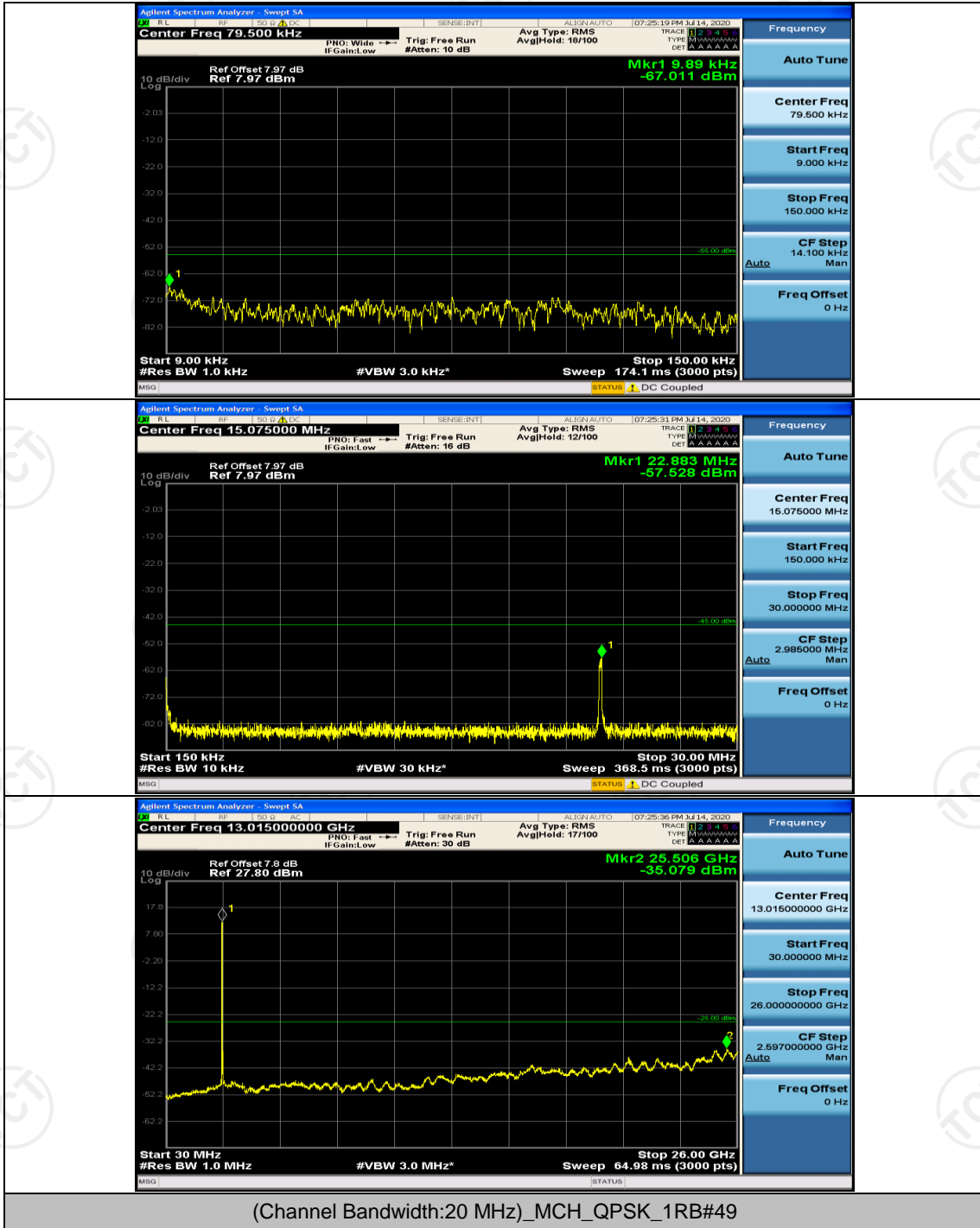
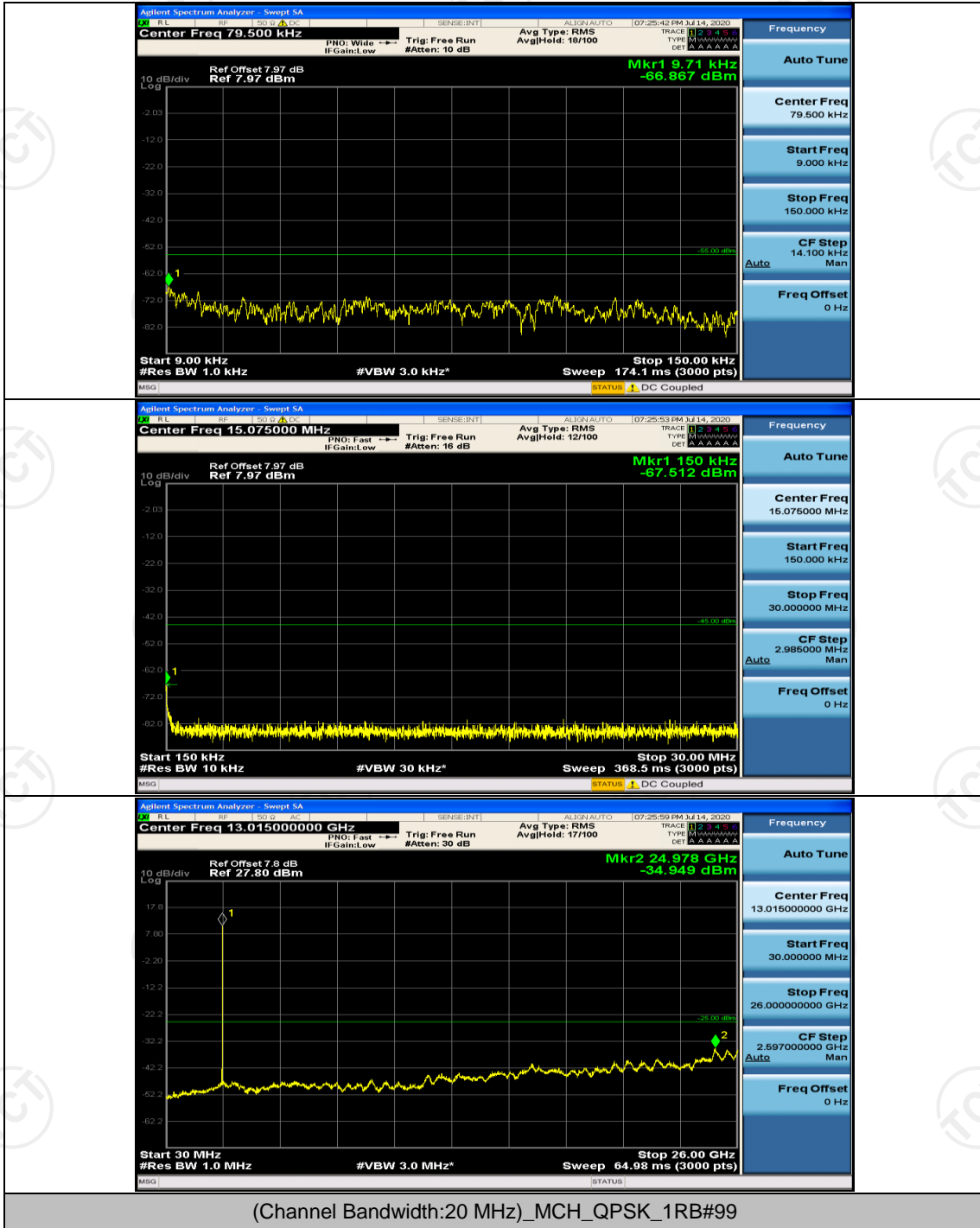
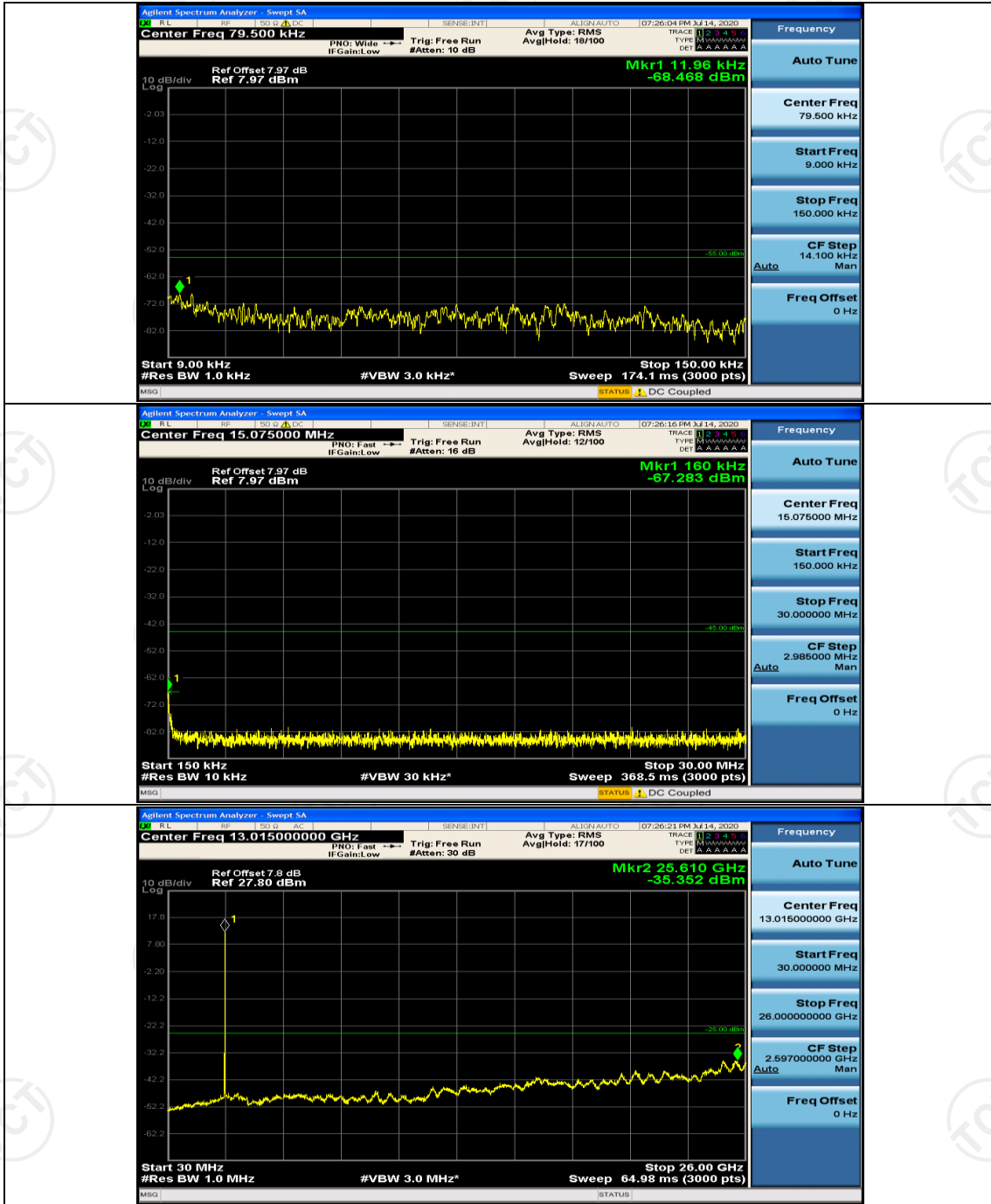


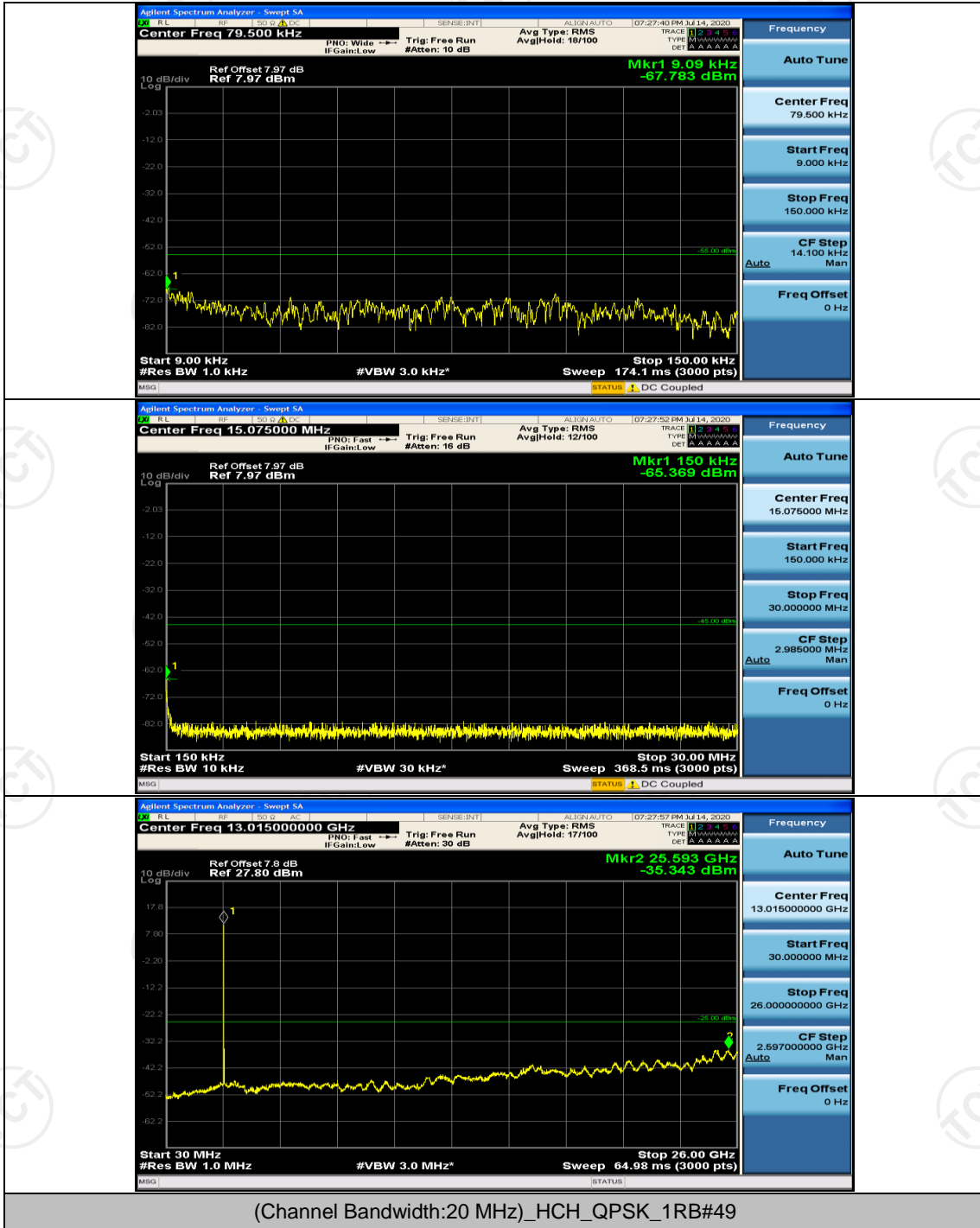
(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

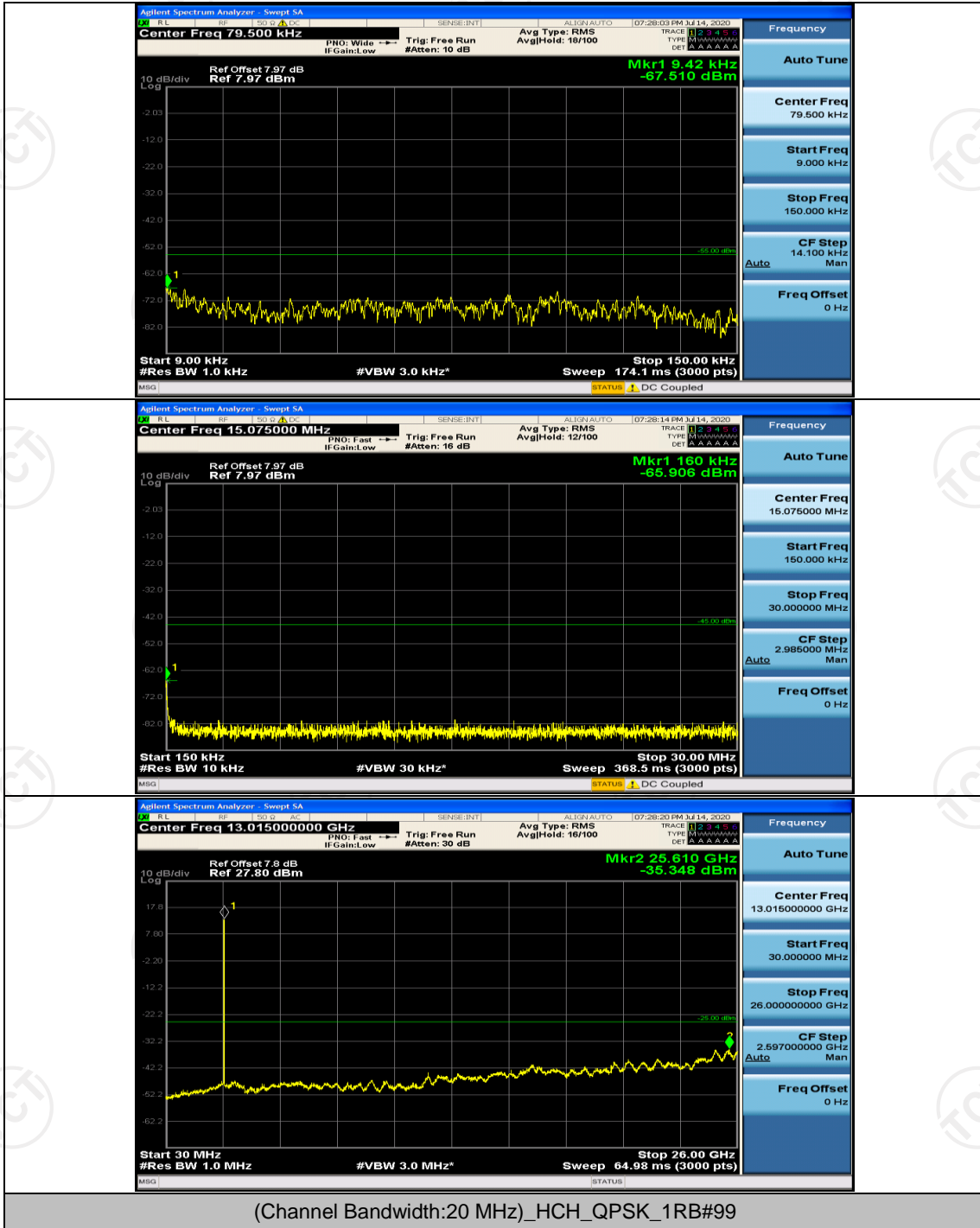


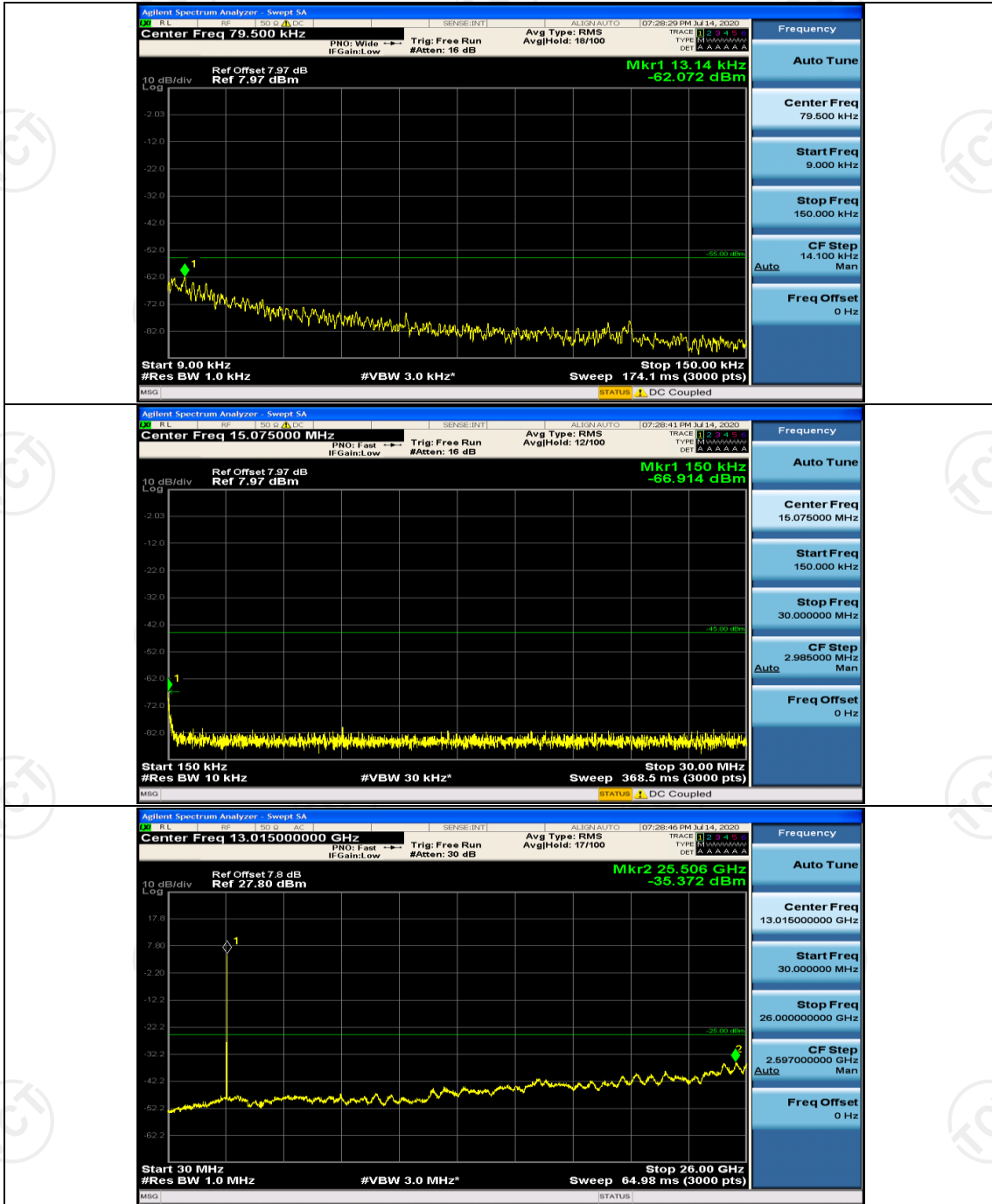




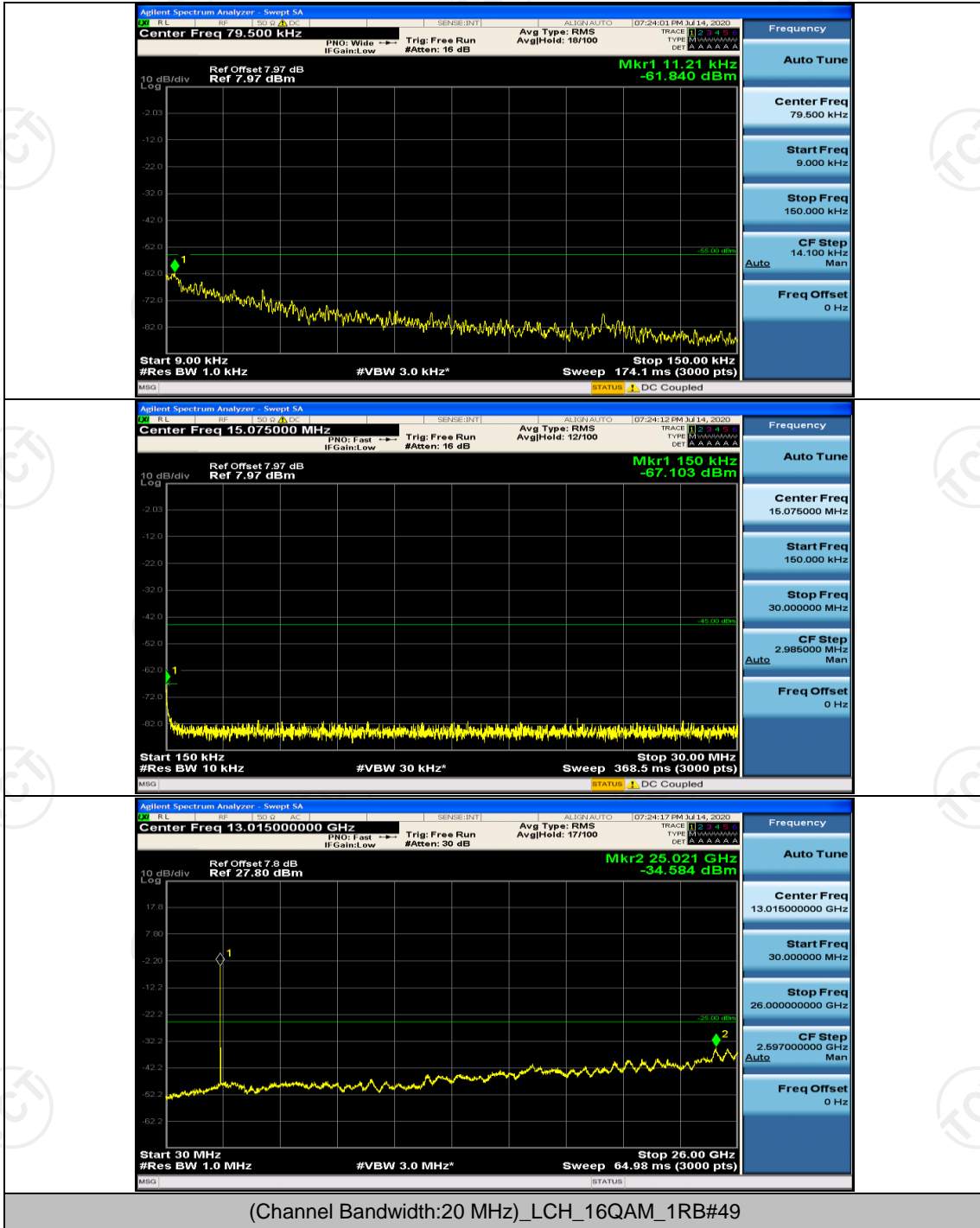
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

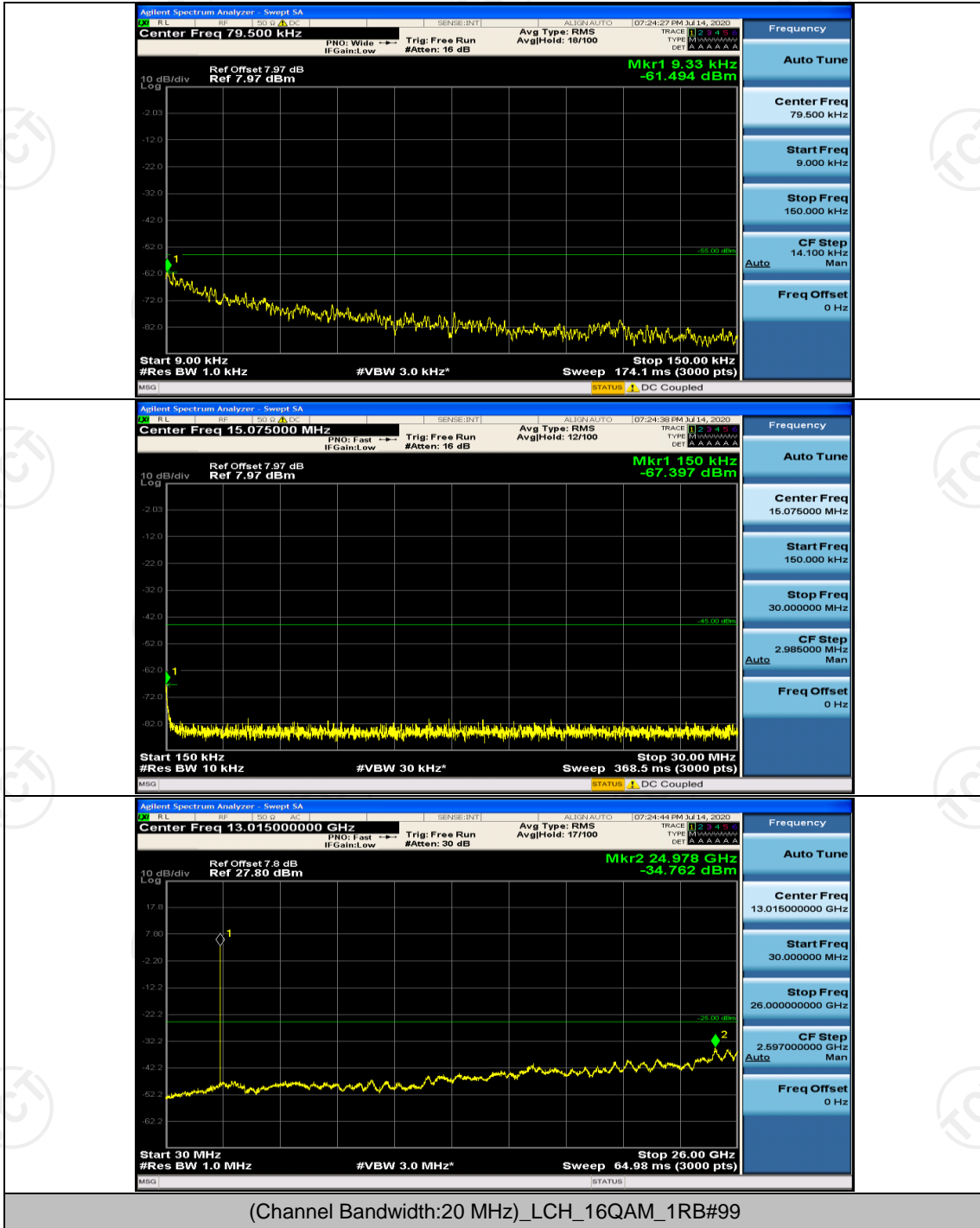


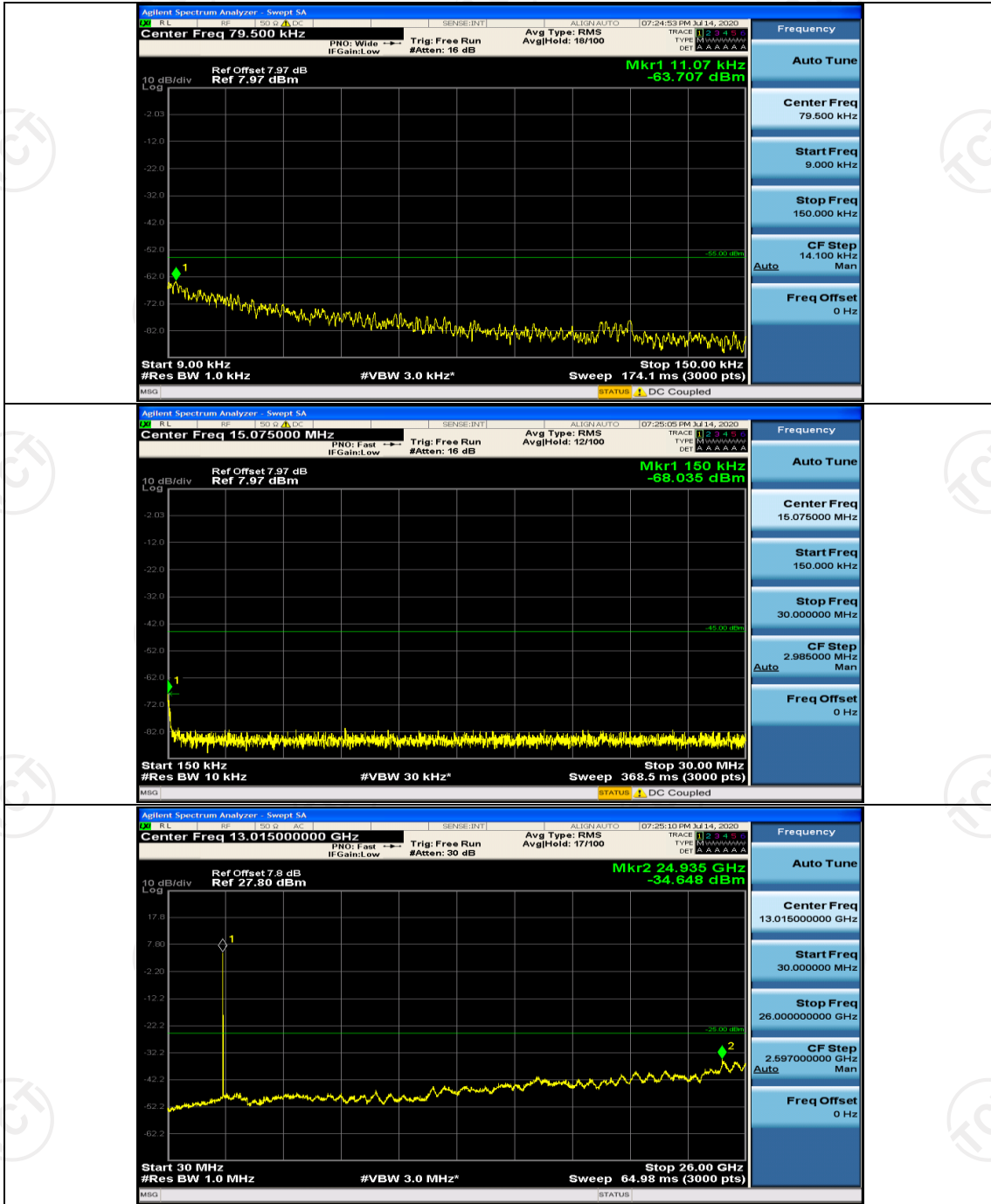




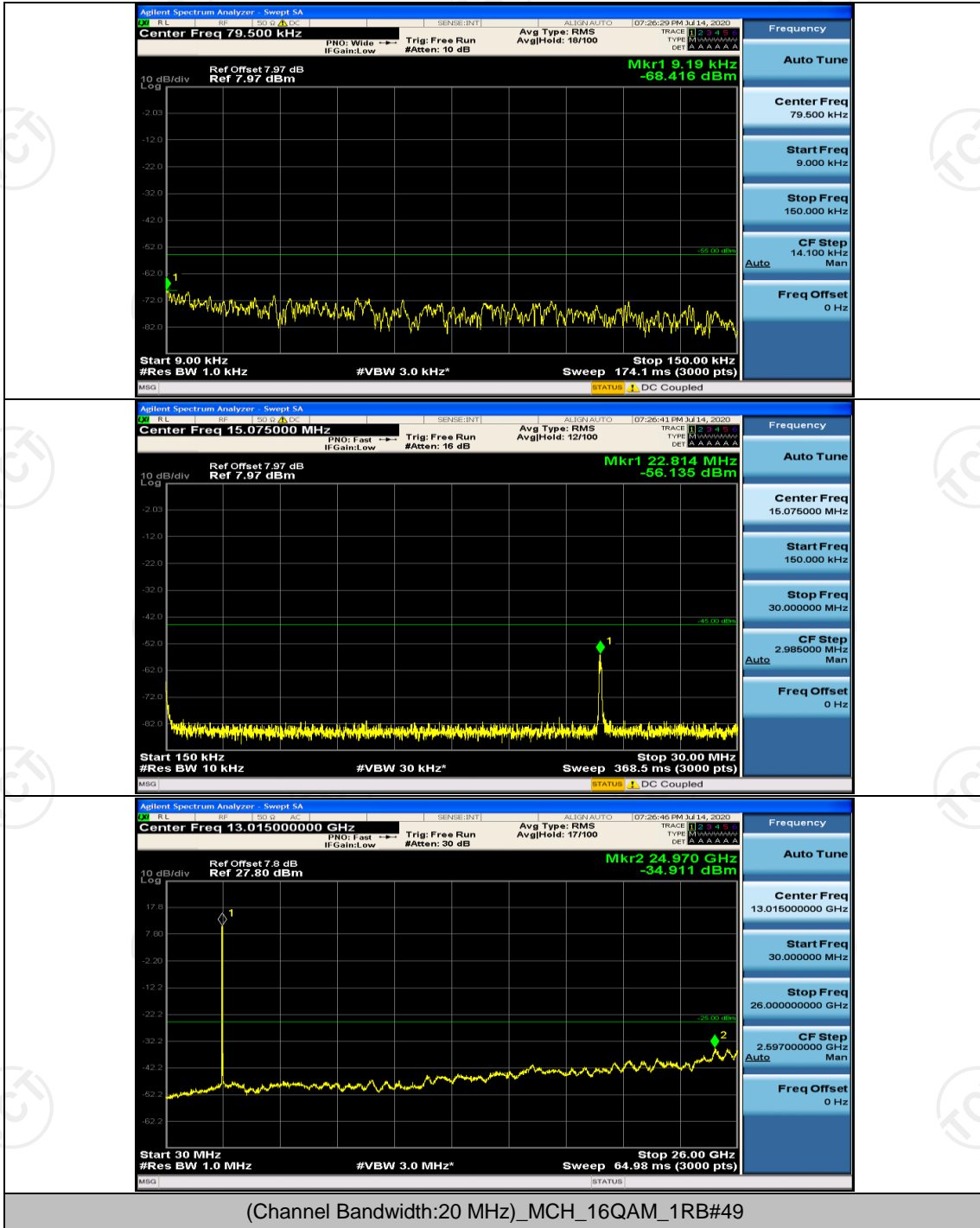
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

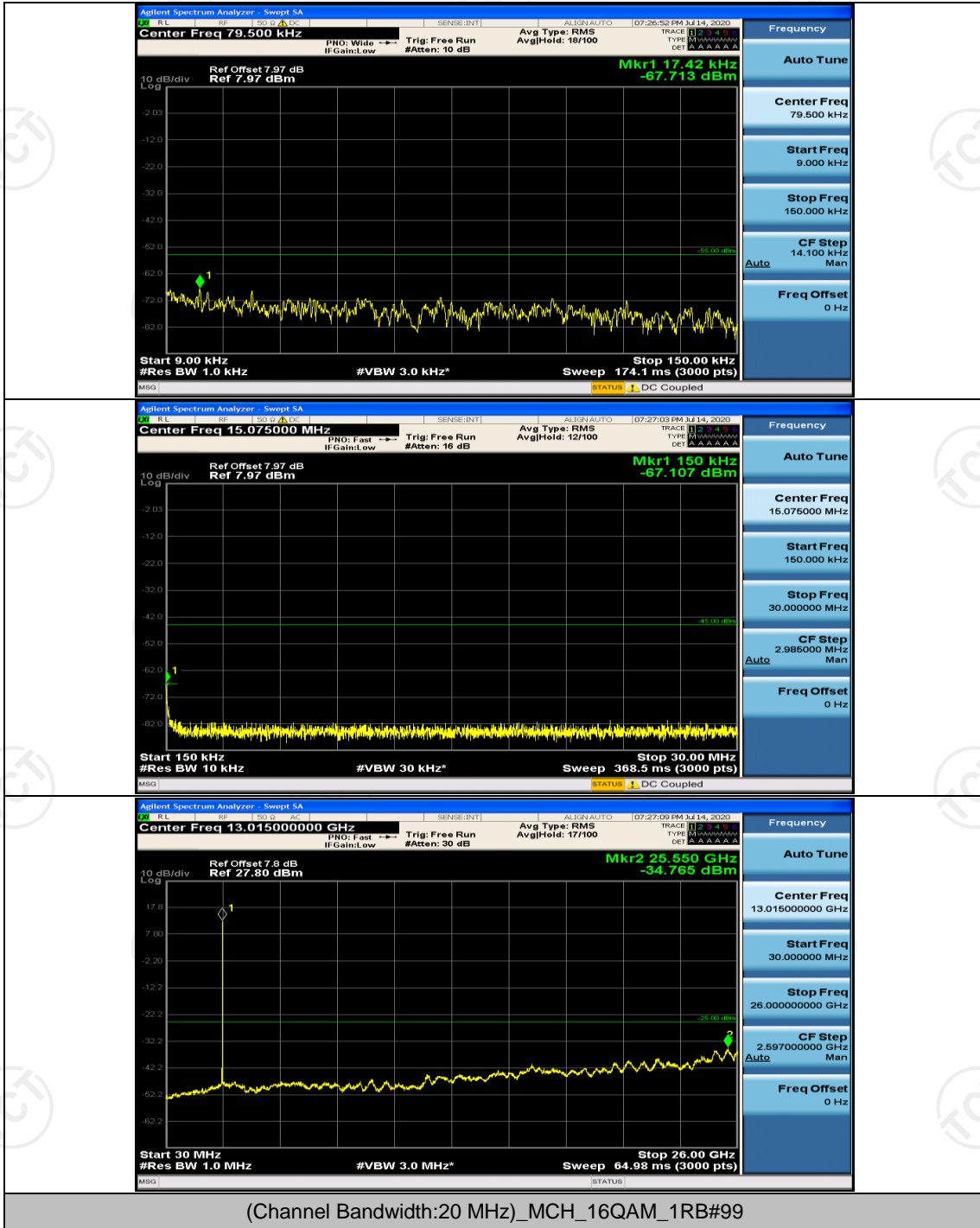


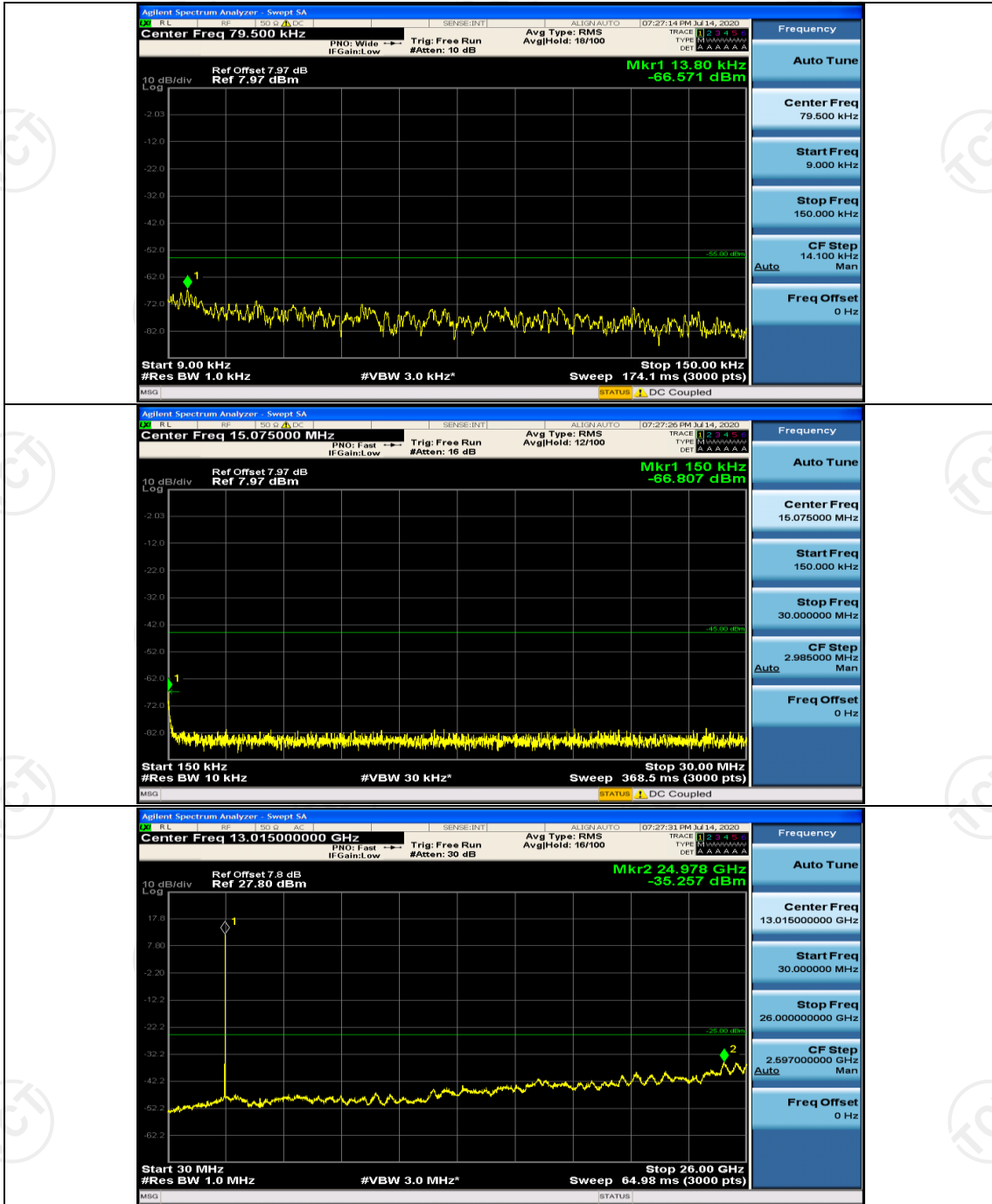




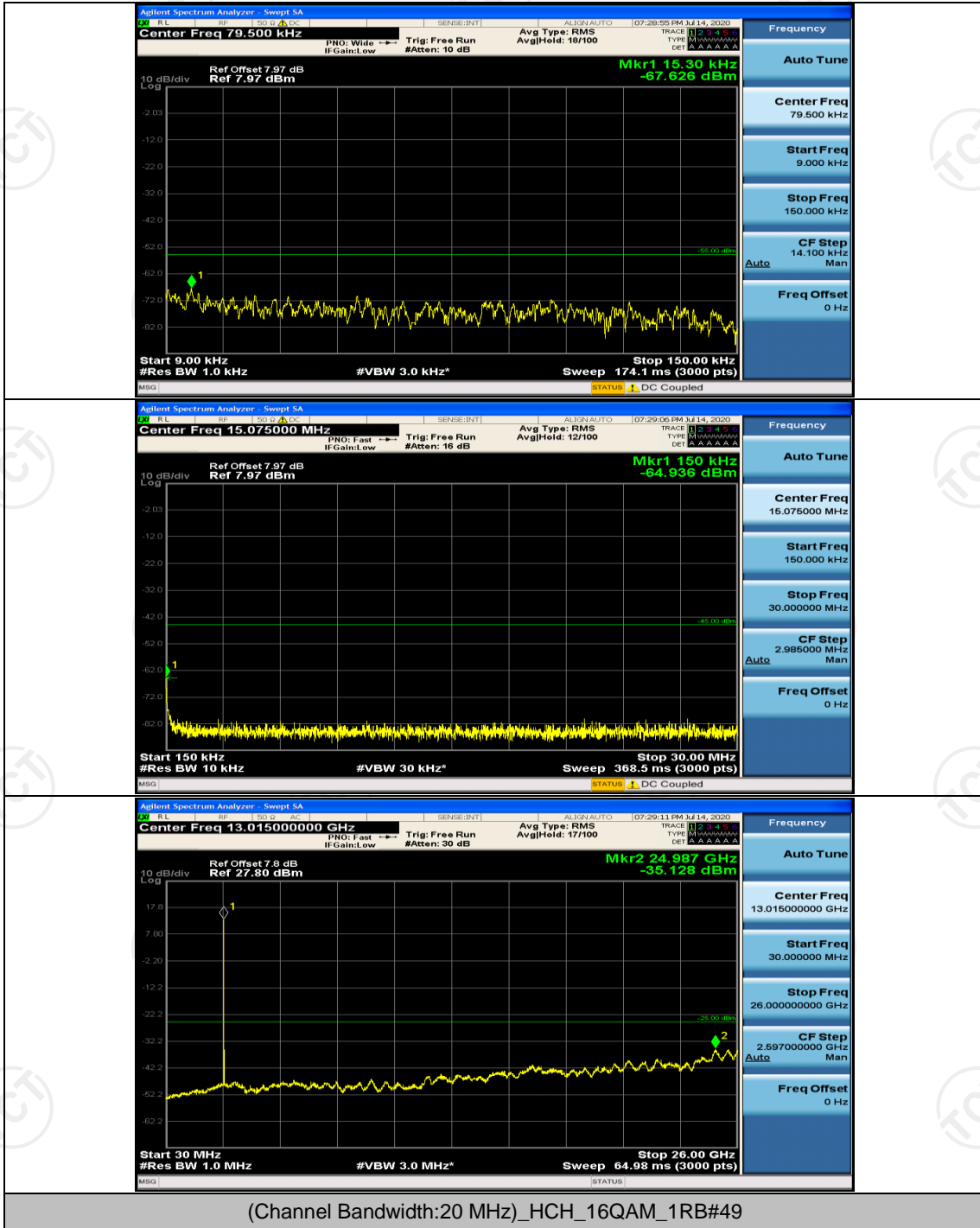
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

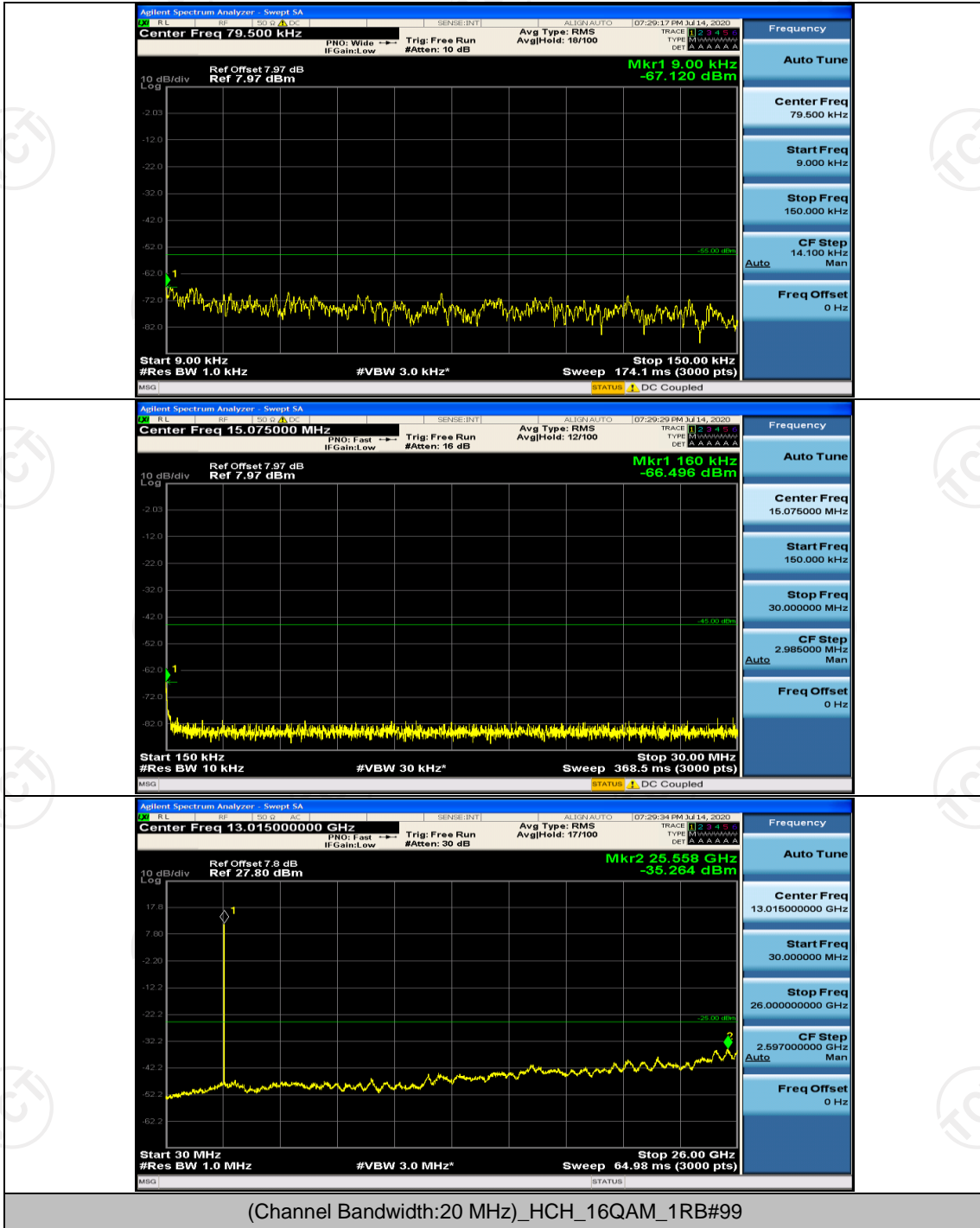


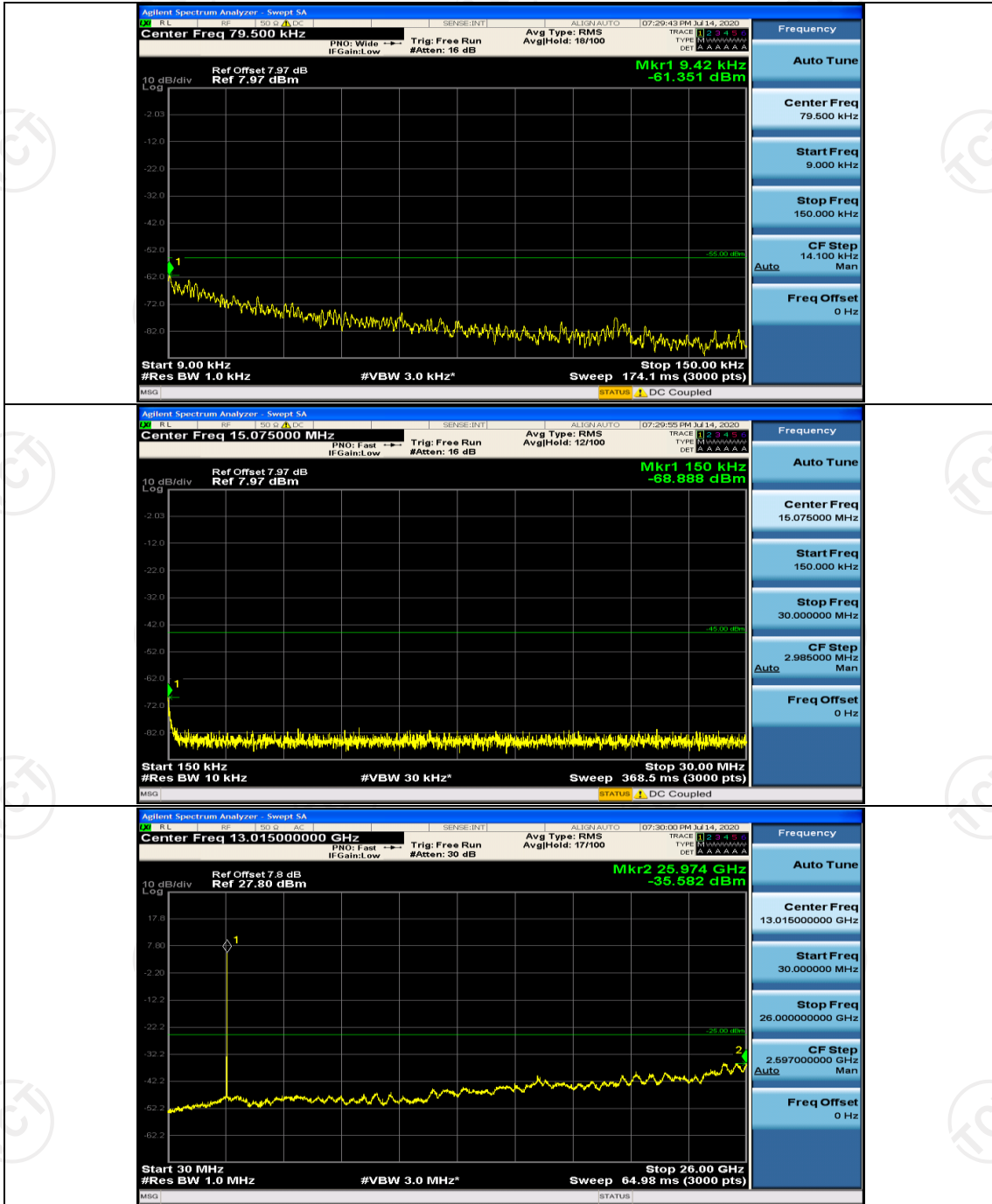




(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0







Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (ppm) | Limit (ppm) | Verdict |
|------------|---------|---------------|------------------|-----------------|-------------|---------|
| QPSK | LCH | VL | TN | -0.007531 | ± 2.5 | PASS |
| | | VN | TN | -0.009916 | ± 2.5 | PASS |
| | | VH | TN | -0.005403 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.007335 | ± 2.5 | PASS |
| | | VN | TN | -0.006896 | ± 2.5 | PASS |
| | | VH | TN | -0.013189 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.007848 | ± 2.5 | PASS |
| | | VN | TN | -0.006453 | ± 2.5 | PASS |
| | | VH | TN | -0.007335 | ± 2.5 | PASS |
| 16QAM | LCH | VL | TN | -0.004631 | ± 2.5 | PASS |
| | | VN | TN | -0.005029 | ± 2.5 | PASS |
| | | VH | TN | -0.004805 | ± 2.5 | PASS |
| | MCH | VL | TN | -0.005413 | ± 2.5 | PASS |
| | | VN | TN | -0.010924 | ± 2.5 | PASS |
| | | VH | TN | -0.001164 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.009018 | ± 2.5 | PASS |
| | | VN | TN | -0.005240 | ± 2.5 | PASS |
| | | VH | TN | -0.014996 | ± 2.5 | PASS |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -0.002982 | ± 2.5 | PASS |
| | | VN | -20 | -0.011232 | ± 2.5 | PASS |
| | | VN | -10 | -0.007390 | ± 2.5 | PASS |
| | | VN | 0 | -0.012238 | ± 2.5 | PASS |
| | | VN | 10 | -0.007079 | ± 2.5 | PASS |
| | | VN | 20 | -0.011708 | ± 2.5 | PASS |
| | | VN | 30 | -0.004482 | ± 2.5 | PASS |
| | | VN | 40 | -0.002975 | ± 2.5 | PASS |
| | | VN | 50 | -0.006717 | ± 2.5 | PASS |
| | MCH | VN | -30 | -0.009475 | ± 2.5 | PASS |
| | | VN | -20 | -0.006915 | ± 2.5 | PASS |
| | | VN | -10 | -0.007441 | ± 2.5 | PASS |
| | | VN | 0 | -0.006167 | ± 2.5 | PASS |
| | | VN | 10 | -0.004364 | ± 2.5 | PASS |
| | | VN | 20 | -0.007744 | ± 2.5 | PASS |
| | | VN | 30 | -0.006713 | ± 2.5 | PASS |
| | | VN | 40 | -0.011485 | ± 2.5 | PASS |
| | | VN | 50 | -0.006430 | ± 2.5 | PASS |
| HCH | VN | -30 | -0.011252 | ± 2.5 | PASS | |

| | | | | | | |
|-------|-----|----|-----------|-----------|-------|------|
| | | VN | -20 | -0.010491 | ± 2.5 | PASS |
| | | VN | -10 | -0.005911 | ± 2.5 | PASS |
| | | VN | 0 | -0.005606 | ± 2.5 | PASS |
| | | VN | 10 | -0.002345 | ± 2.5 | PASS |
| | | VN | 20 | -0.007435 | ± 2.5 | PASS |
| | | VN | 30 | -0.005780 | ± 2.5 | PASS |
| | | VN | 40 | -0.011299 | ± 2.5 | PASS |
| | | VN | 50 | -0.006120 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -0.007535 | ± 2.5 | PASS |
| | | VN | -20 | -0.012988 | ± 2.5 | PASS |
| | | VN | -10 | -0.005636 | ± 2.5 | PASS |
| | | VN | 0 | -0.00874 | ± 2.5 | PASS |
| | | VN | 10 | -0.004367 | ± 2.5 | PASS |
| | | VN | 20 | -0.004436 | ± 2.5 | PASS |
| | | VN | 30 | -0.010365 | ± 2.5 | PASS |
| | | VN | 40 | -0.004572 | ± 2.5 | PASS |
| | VN | 50 | -0.005441 | ± 2.5 | PASS | |
| | MCH | VN | -30 | -0.013304 | ± 2.5 | PASS |
| | | VN | -20 | -0.001199 | ± 2.5 | PASS |
| | | VN | -10 | -0.003821 | ± 2.5 | PASS |
| | | VN | 0 | -0.002233 | ± 2.5 | PASS |
| | | VN | 10 | -0.006475 | ± 2.5 | PASS |
| | | VN | 20 | -0.014376 | ± 2.5 | PASS |
| | | VN | 30 | -0.012435 | ± 2.5 | PASS |
| | | VN | 40 | -0.004357 | ± 2.5 | PASS |
| | VN | 50 | -0.005601 | ± 2.5 | PASS | |
| | HCH | VN | -30 | -0.007448 | ± 2.5 | PASS |
| | | VN | -20 | -0.003677 | ± 2.5 | PASS |
| | | VN | -10 | -0.00991 | ± 2.5 | PASS |
| | | VN | 0 | -0.004305 | ± 2.5 | PASS |
| | | VN | 10 | -0.005183 | ± 2.5 | PASS |
| | | VN | 20 | -0.007480 | ± 2.5 | PASS |
| | | VN | 30 | -0.009119 | ± 2.5 | PASS |
| | | VN | 40 | -0.005127 | ± 2.5 | PASS |
| | VN | 50 | -0.011439 | ± 2.5 | PASS | |

Appendix G :Field Strength of Spurious Radiation

Measurement

Test Result

| Bandwidth: | 5M | | | | Test channel: | Lowest |
|--------------------|----------------------------------------------------------------------------------|---------------------|---------------------|-------------------------|---------------------------|---------|
| Modulation: | QPSK | | | | Temperature : | 23~24°C |
| RB #: | 1RB #0 | | | | Relative Humidity: | 46~48% |
| Note: | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. | | | | | |
| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
| | Polarization | Reading Level (dBm) | Substitution factor | Measurement Level (dBm) | | |
| 5115.0 | Vertical | -45.37 | 12.86 | -32.51 | -25.00 | PASS |
| 7672.5 | V | -51.04 | 16.42 | -34.62 | | |
| - | V | - | - | - | | |
| 5115.0 | Horizontal | -45.36 | 11.91 | -33.45 | | |
| 7672.5 | H | -50.35 | 14.84 | -35.51 | | |
| - | H | - | - | - | | |
| Bandwidth: | 5M | | | | Test channel: | Middle |
| Modulation: | QPSK | | | | Temperature : | 23~24°C |
| RB #: | 1RB #0 | | | | Relative Humidity: | 46~48% |
| Note: | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. | | | | | |
| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
| | Polarization | Reading Level (dBm) | Substitution factor | Measurement Level (dBm) | | |
| 5210.0 | Vertical | -45.32 | 12.99 | -32.33 | -25.00 | PASS |
| 7815.0 | V | -50.77 | 16.69 | -34.08 | | |
| - | V | - | - | - | | |
| 5210.0 | Horizontal | -56.63 | 12.04 | -44.59 | | |
| 7815.0 | H | -50.92 | 15.14 | -35.78 | | |
| - | H | - | - | - | | |
| Bandwidth: | 5M | | | | Test channel: | Highest |
| Modulation: | QPSK | | | | Temperature : | 23~24°C |
| RB #: | 1RB #0 | | | | Relative Humidity: | 46~48% |
| Note: | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. | | | | | |
| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
| | Polarization | Reading Level (dBm) | Substitution factor | Measurement Level (dBm) | | |
| 5305.0 | Vertical | -46.45 | 13.11 | -33.34 | -25.00 | PASS |
| 7957.5 | V | -52.12 | 16.96 | -35.16 | | |
| - | V | - | - | - | | |
| 5305.0 | Horizontal | -45.59 | 12.18 | -33.41 | | |
| 7957.5 | H | -52.03 | 15.45 | -36.58 | | |
| - | H | - | - | - | | |

| Bandwidth: | 5M | | | | Test channel: | Lowest |
|--------------------|----------------------------------------------------------------------------------|---------------------|---------------------|-------------------------|---------------------------|----------------|
| Modulation: | 16QAM | | | | Temperature : | 23~24°C |
| RB #: | 1RB #0 | | | | Relative Humidity: | 46~48% |
| Note: | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. | | | | | |
| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
| | Polarization | Reading Level (dBm) | Substitution factor | Measurement Level (dBm) | | |
| 5115.0 | Vertical | -45.57 | 12.86 | -32.71 | -25.00 | PASS |
| 7672.5 | V | -51.46 | 16.42 | -35.04 | | |
| - | V | - | - | - | | |
| 5115.0 | Horizontal | -45.52 | 11.91 | -33.61 | | |
| 7672.5 | H | -50.99 | 14.84 | -36.15 | | |
| - | H | - | - | - | | |
| Bandwidth: | 5M | | | | Test channel: | Middle |
| Modulation: | 16QAM | | | | Temperature : | 23~24°C |
| RB #: | 1RB #0 | | | | Relative Humidity: | 46~48% |
| Note: | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. | | | | | |
| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
| | Polarization | Reading Level (dBm) | Substitution factor | Measurement Level (dBm) | | |
| 5210.0 | Vertical | -45.57 | 12.99 | -32.58 | -25.00 | PASS |
| 7815.0 | V | -51.38 | 16.69 | -34.69 | | |
| - | V | - | - | - | | |
| 5210.0 | Horizontal | -45.92 | 12.04 | -33.88 | | |
| 7815.0 | H | -51.17 | 15.14 | -36.03 | | |
| - | H | - | - | - | | |
| Bandwidth: | 5M | | | | Test channel: | Highest |
| Modulation: | 16QAM | | | | Temperature : | 23~24°C |
| RB #: | 1RB #0 | | | | Relative Humidity: | 46~48% |
| Note: | Spurious emissions within 30-1000MHz were found more than 20dB below limit line. | | | | | |
| Frequency (MHz) | Spurious Emission | | | | Limit (dBm) | Result |
| | Polarization | Reading Level (dBm) | Substitution factor | Measurement Level (dBm) | | |
| 5305.0 | Vertical | -46.42 | 13.11 | -33.31 | -25.00 | PASS |
| 7957.5 | V | -52.6 | 16.96 | -35.64 | | |
| - | V | - | - | - | | |
| 5305.0 | Horizontal | -46 | 12.18 | -33.82 | | |
| 7957.5 | H | -51.92 | 15.45 | -36.47 | | |
| - | H | - | - | - | | |

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