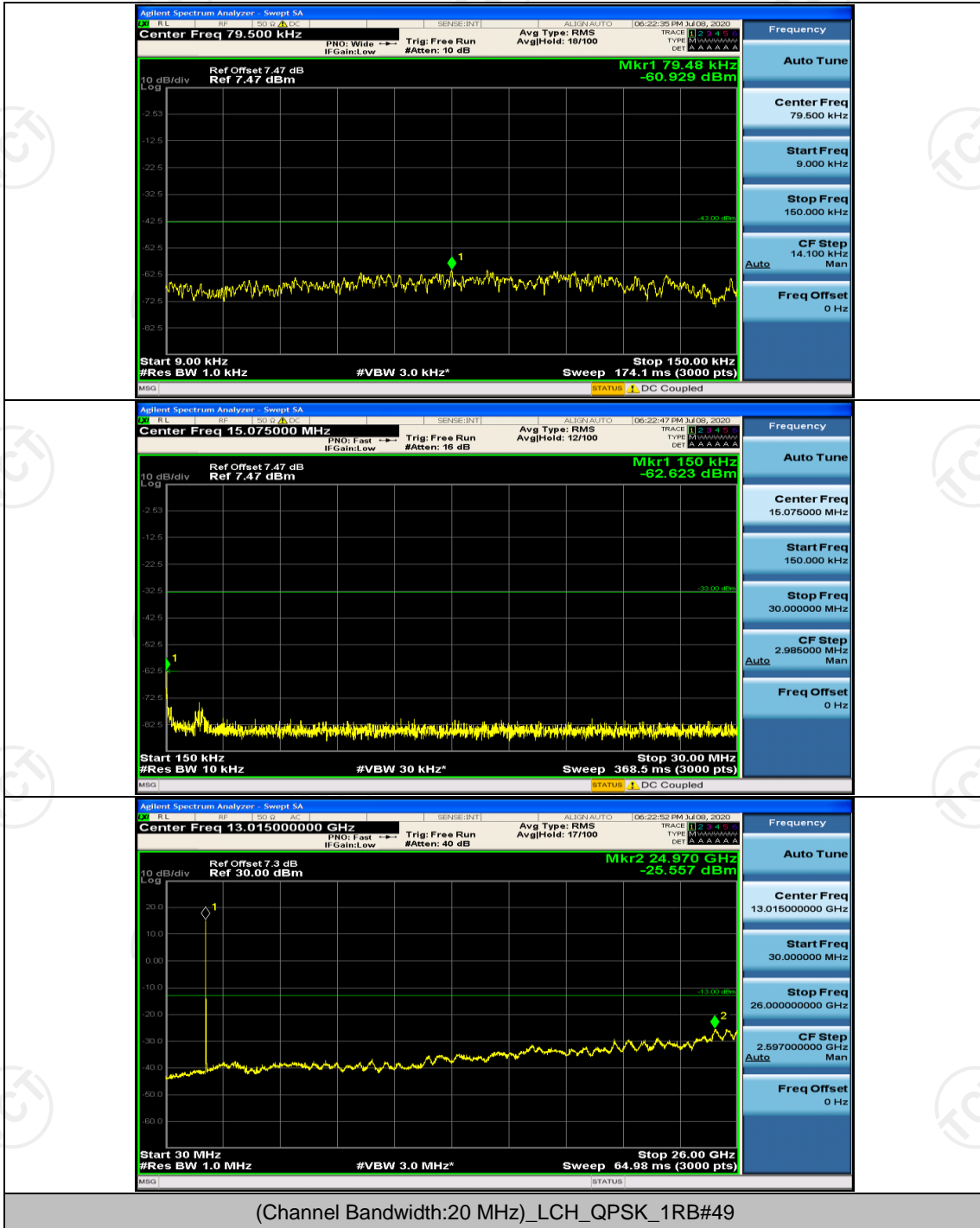
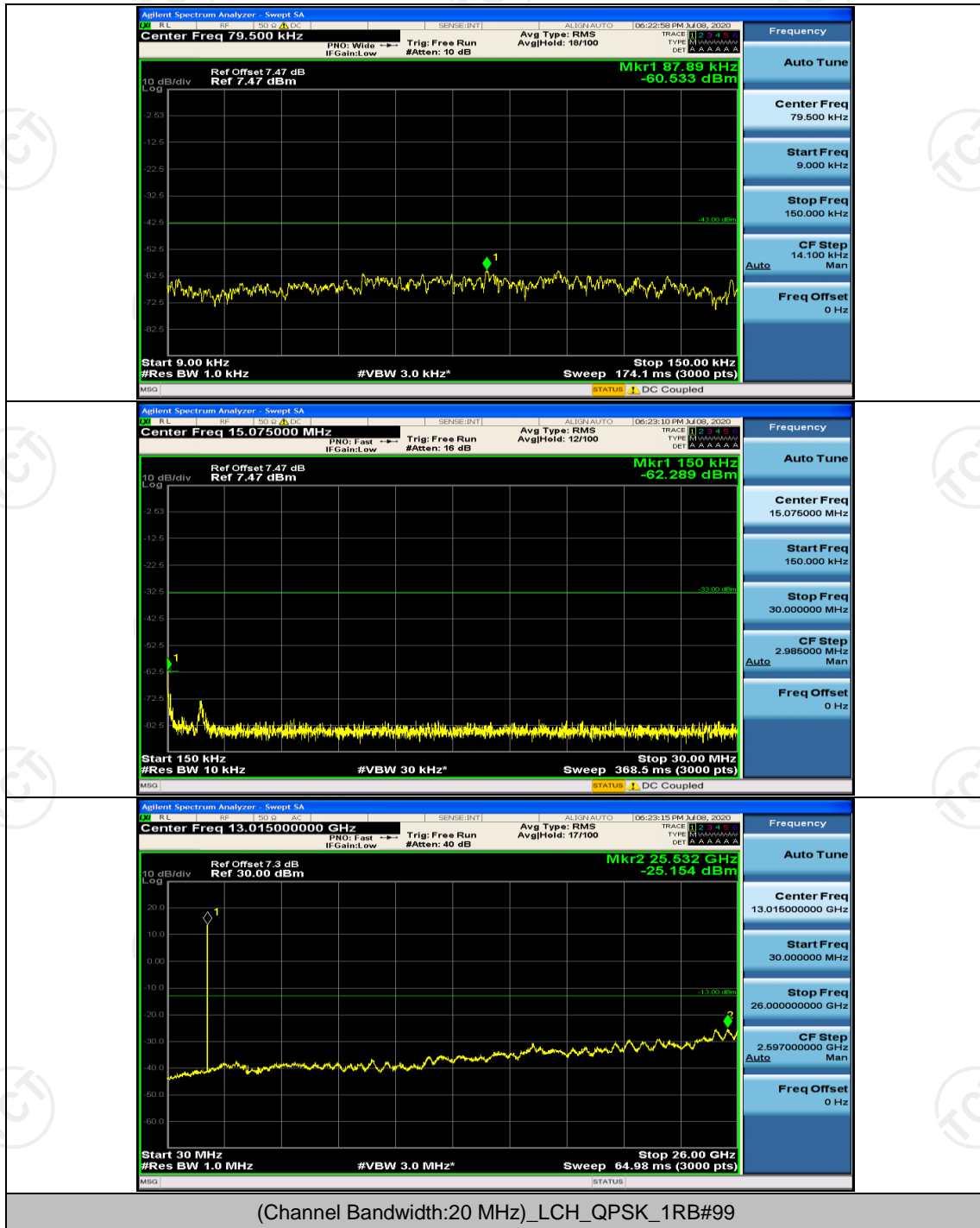
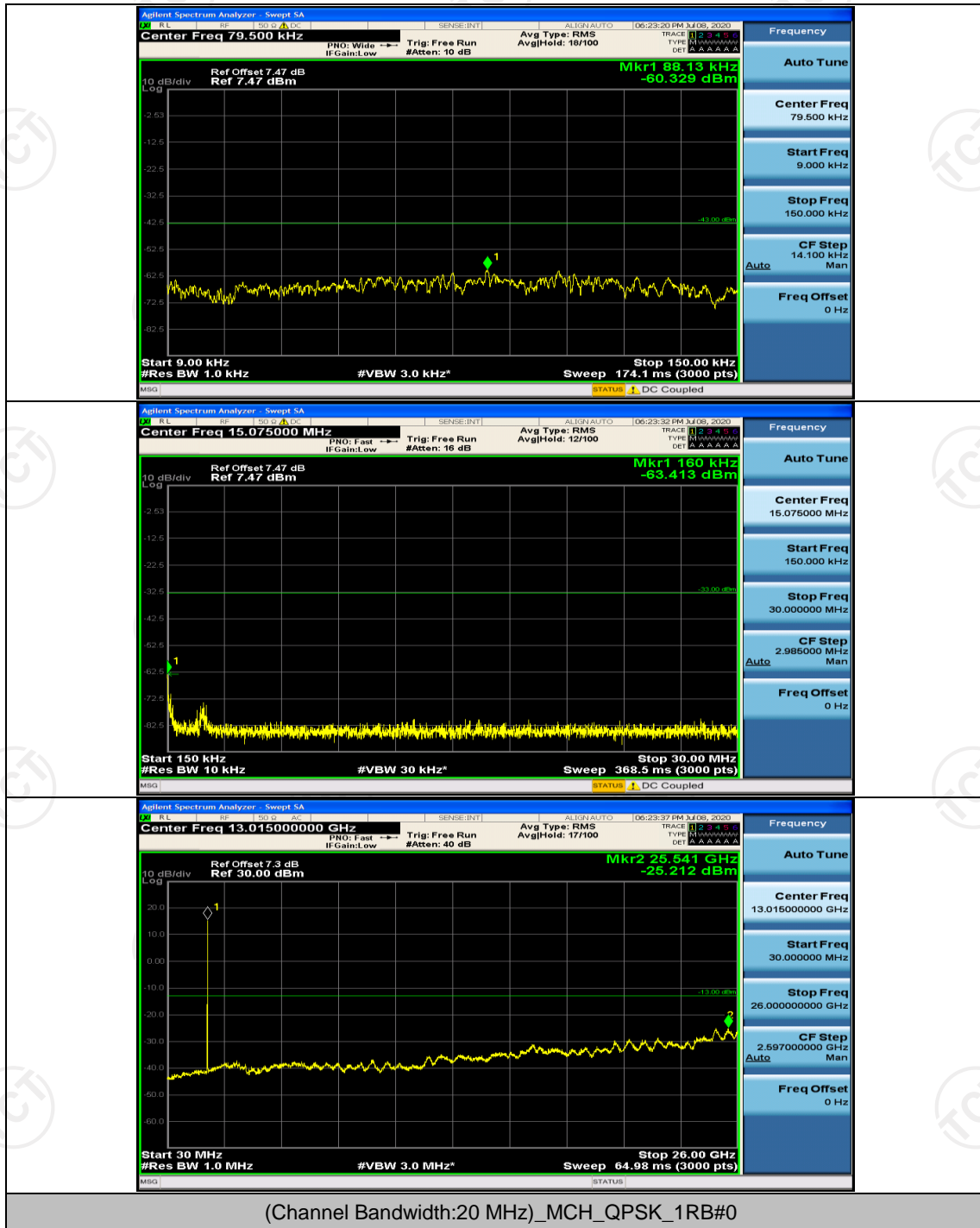


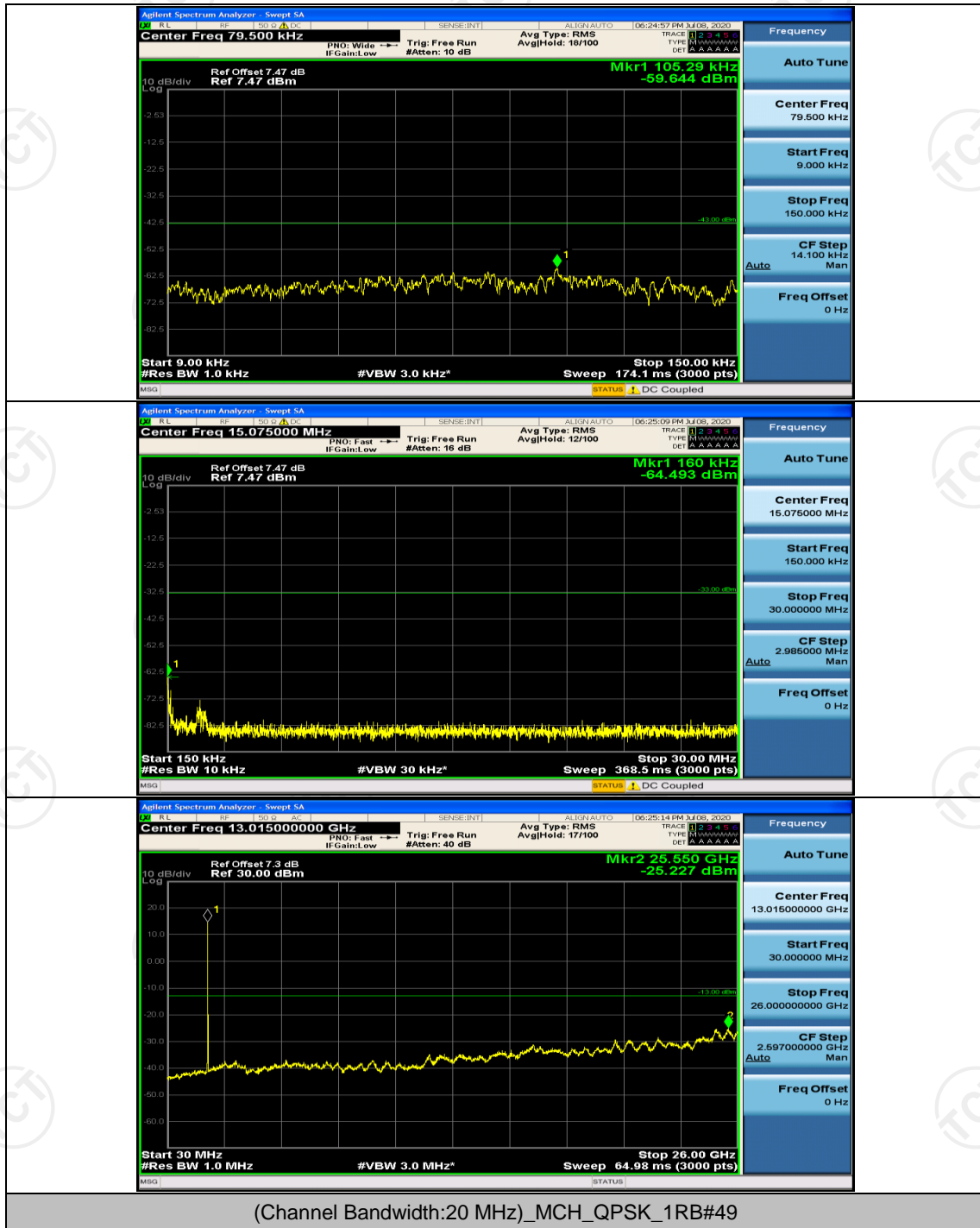
Channel Bandwidth: 20 MHz

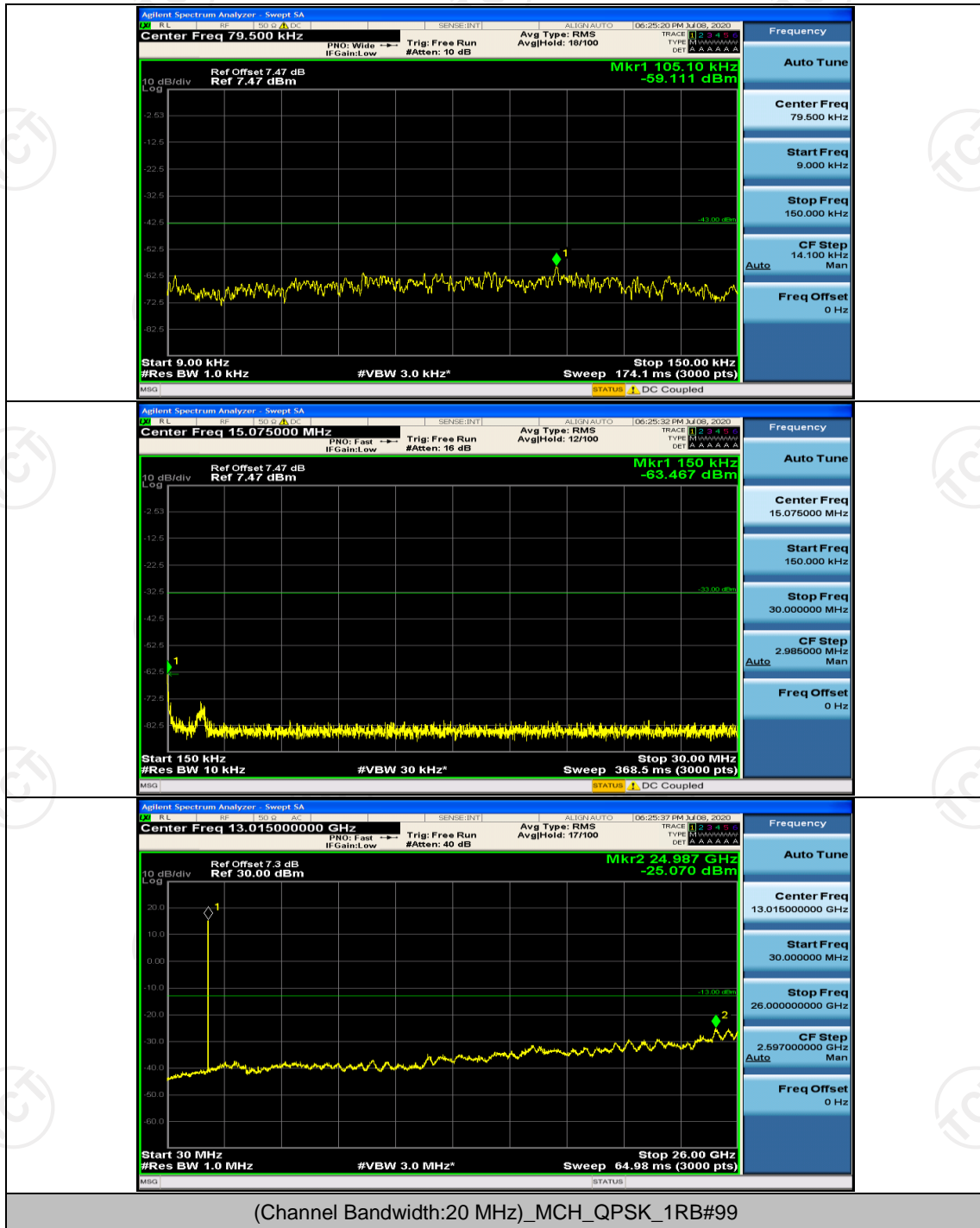
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0

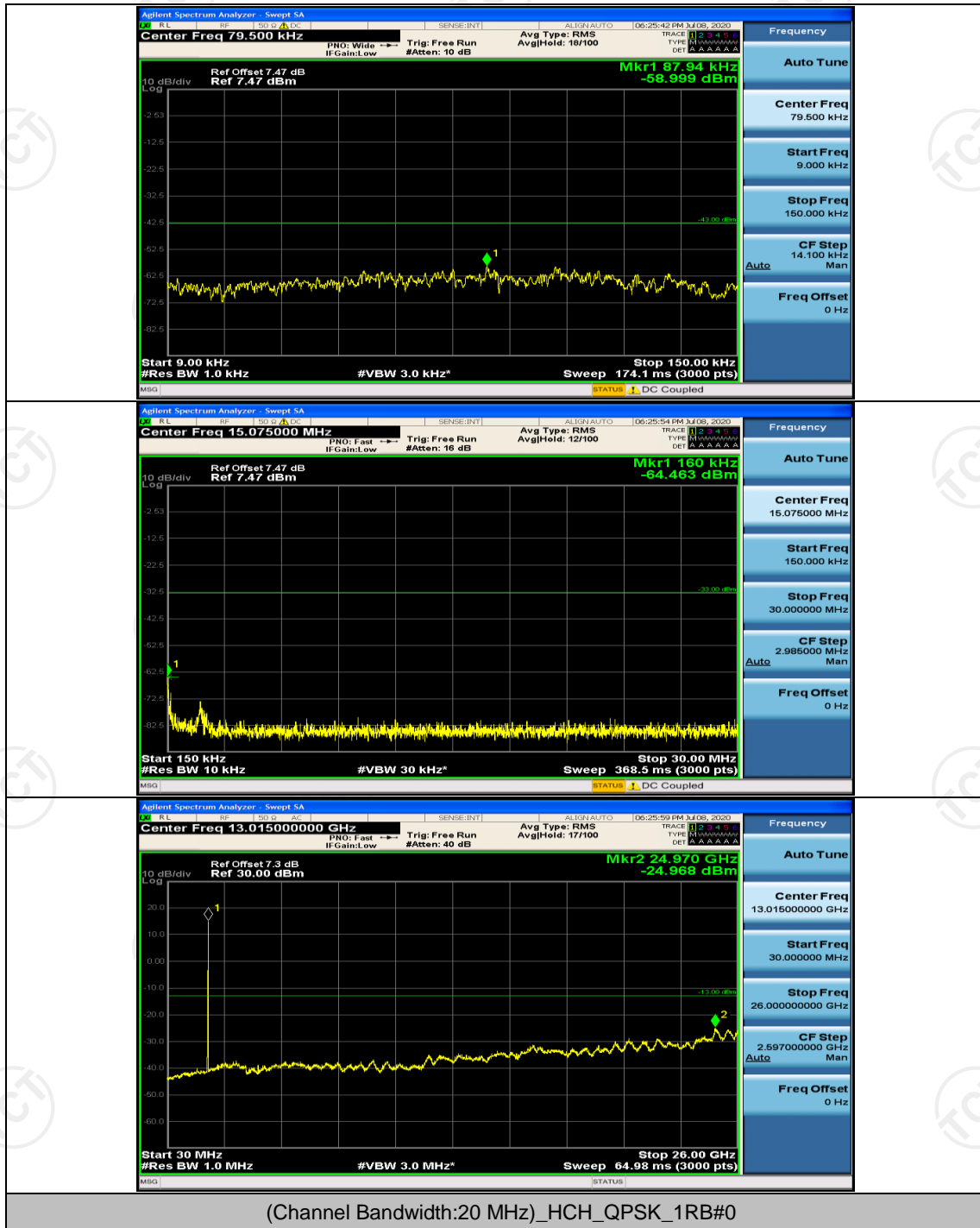


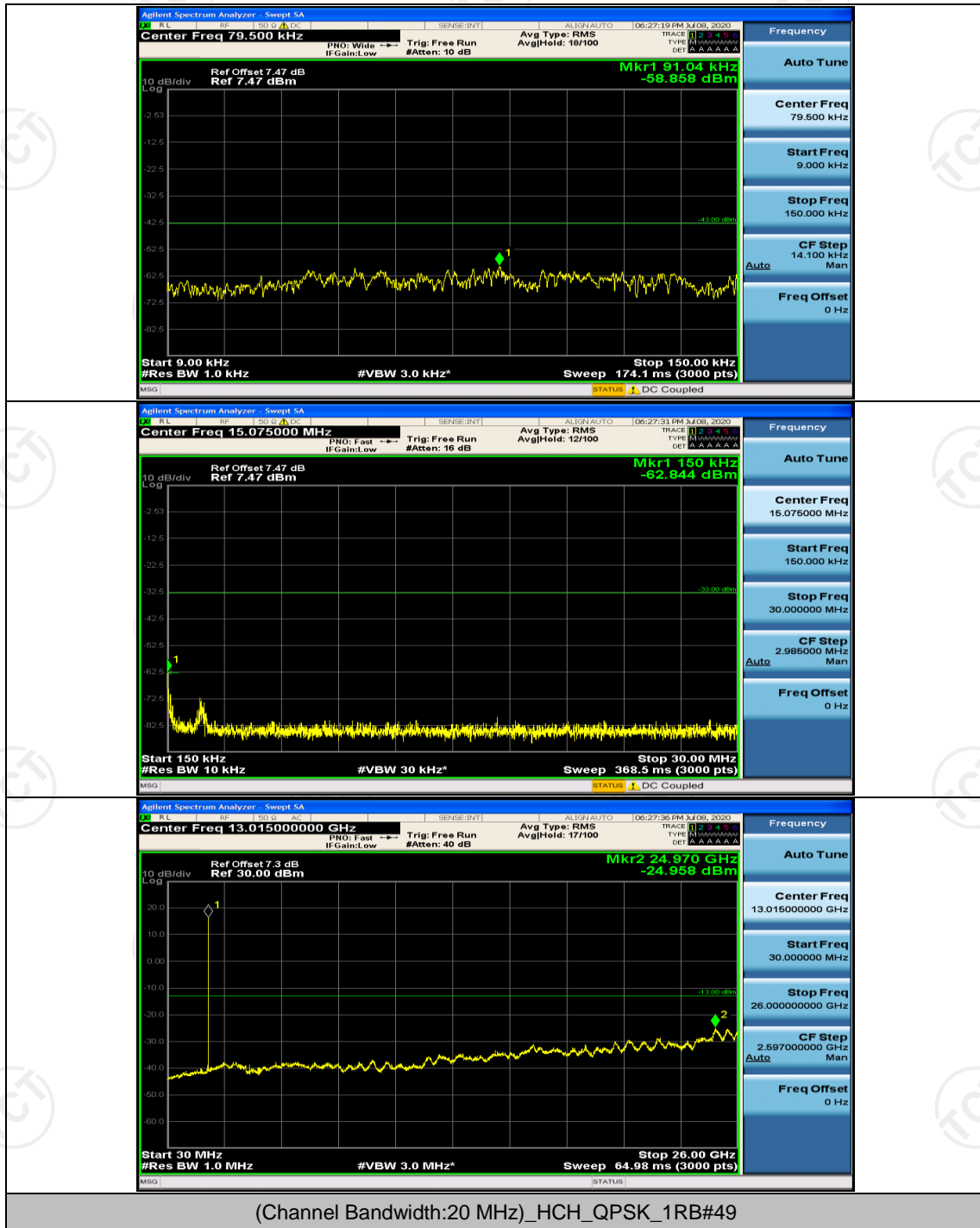


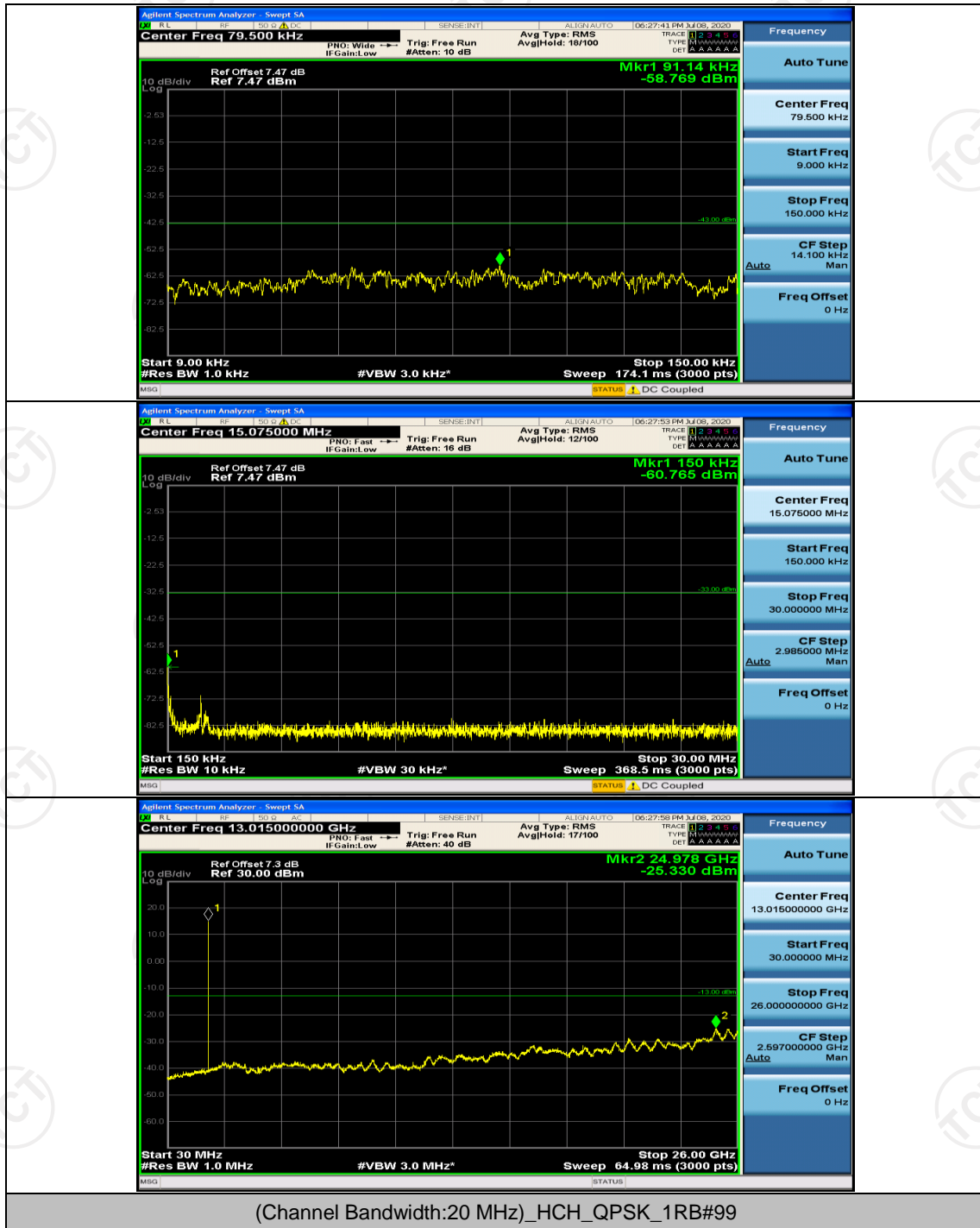


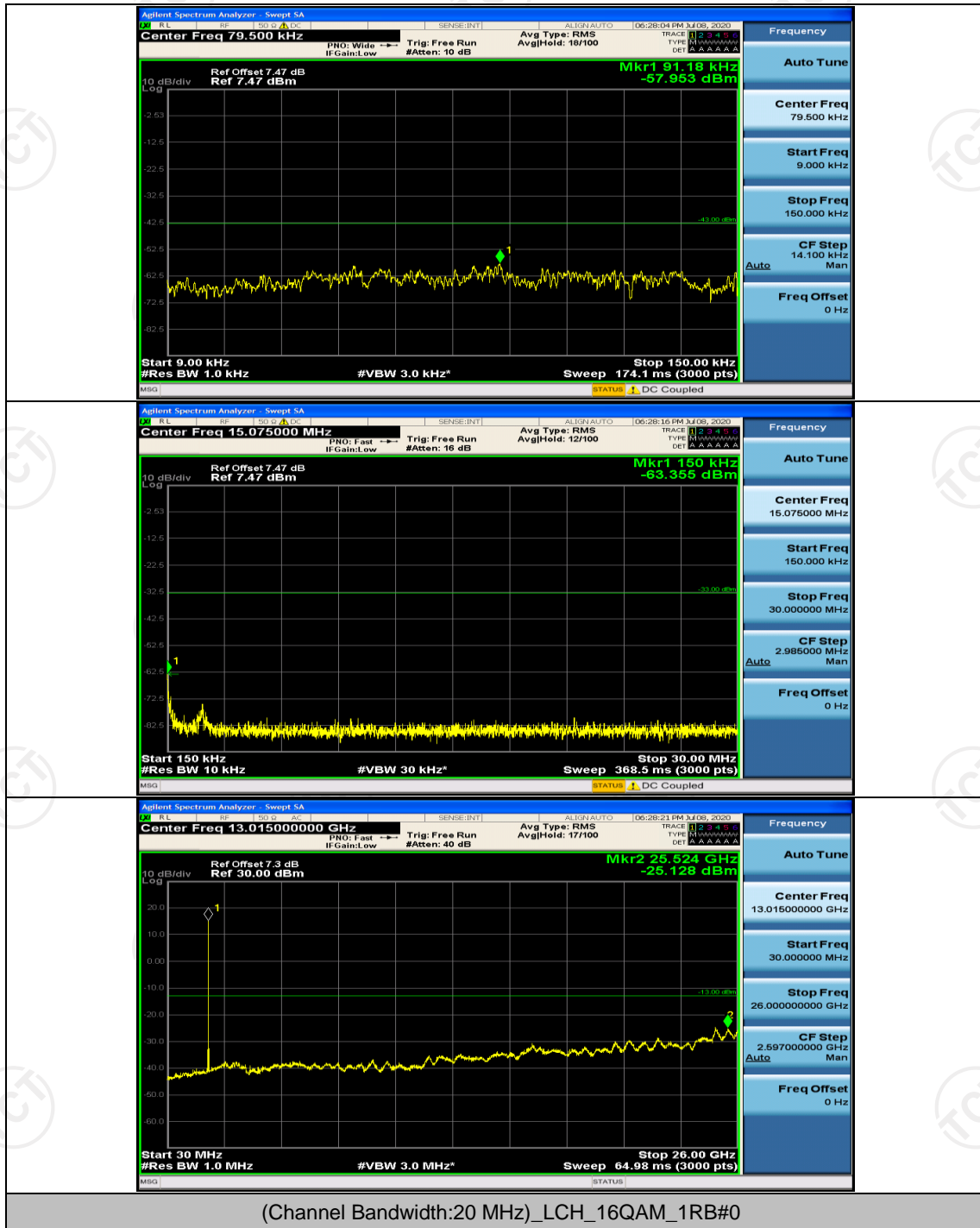


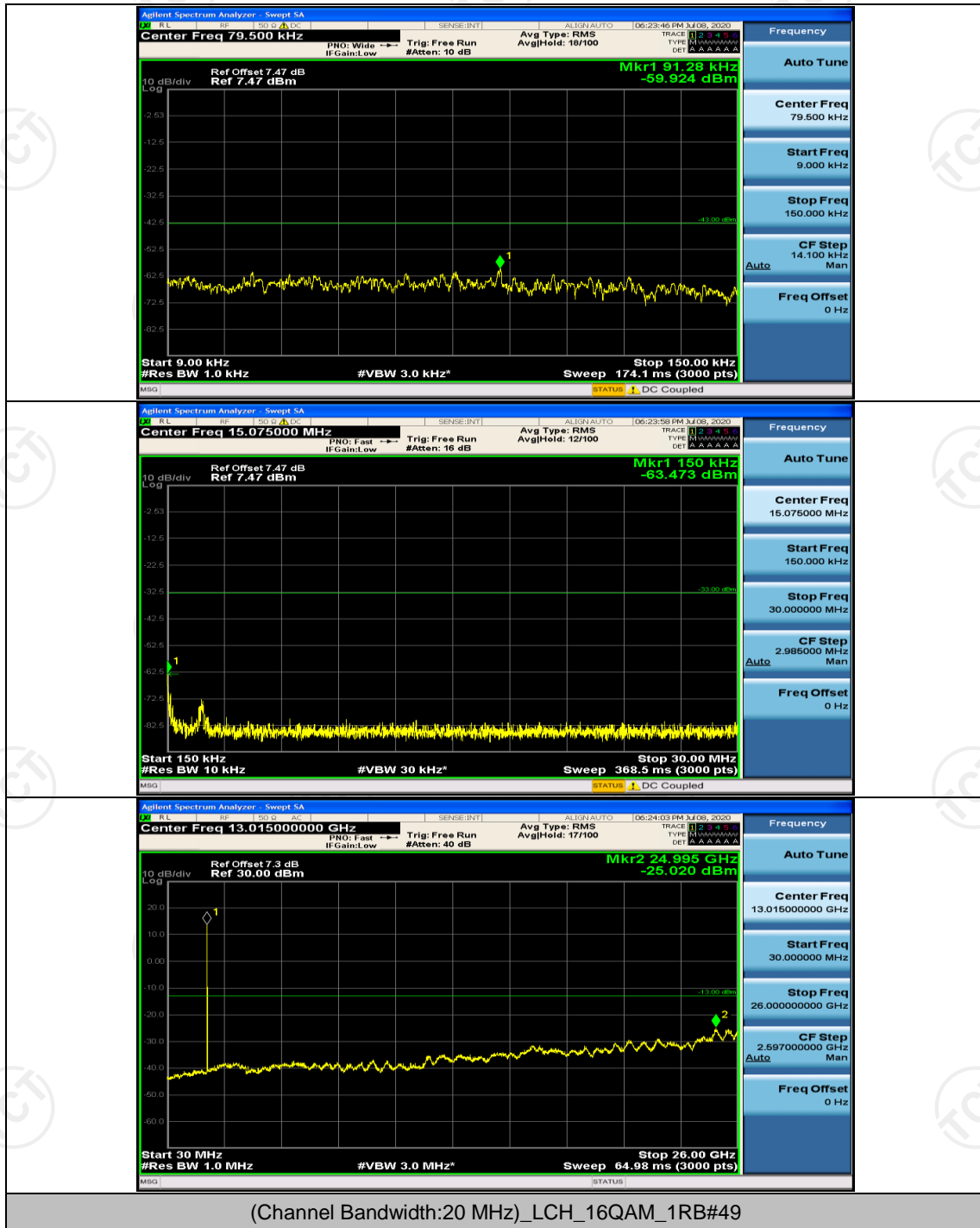


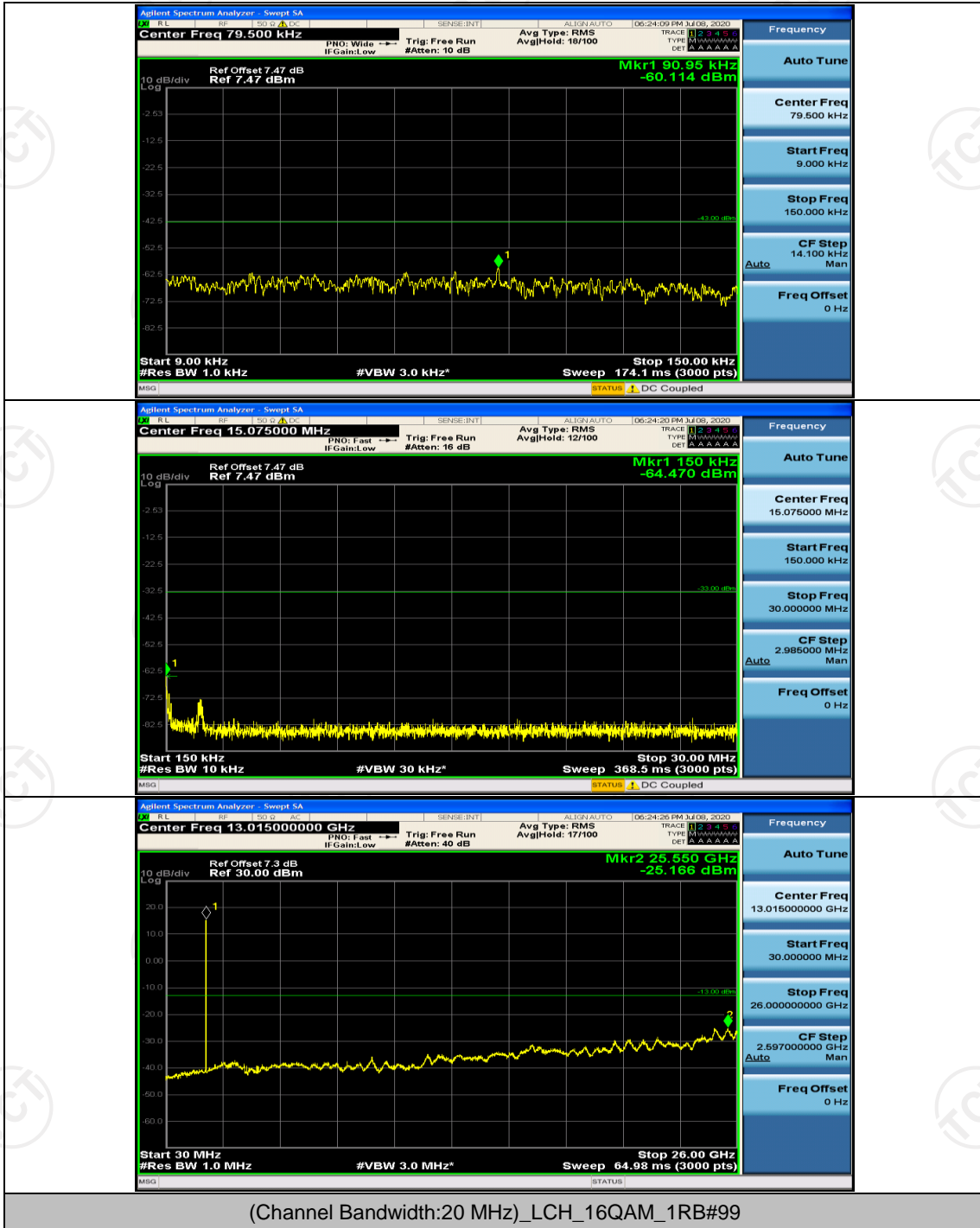


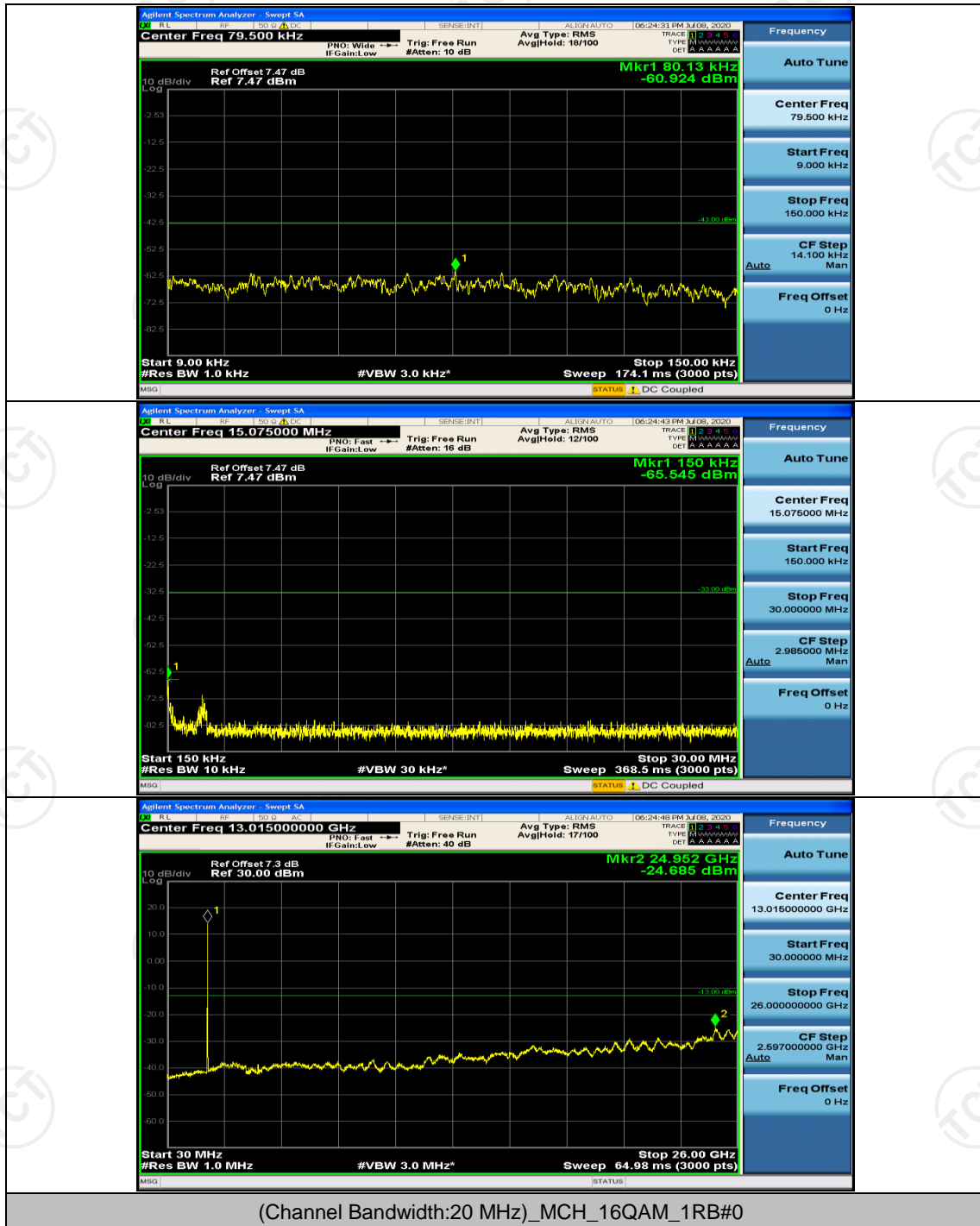


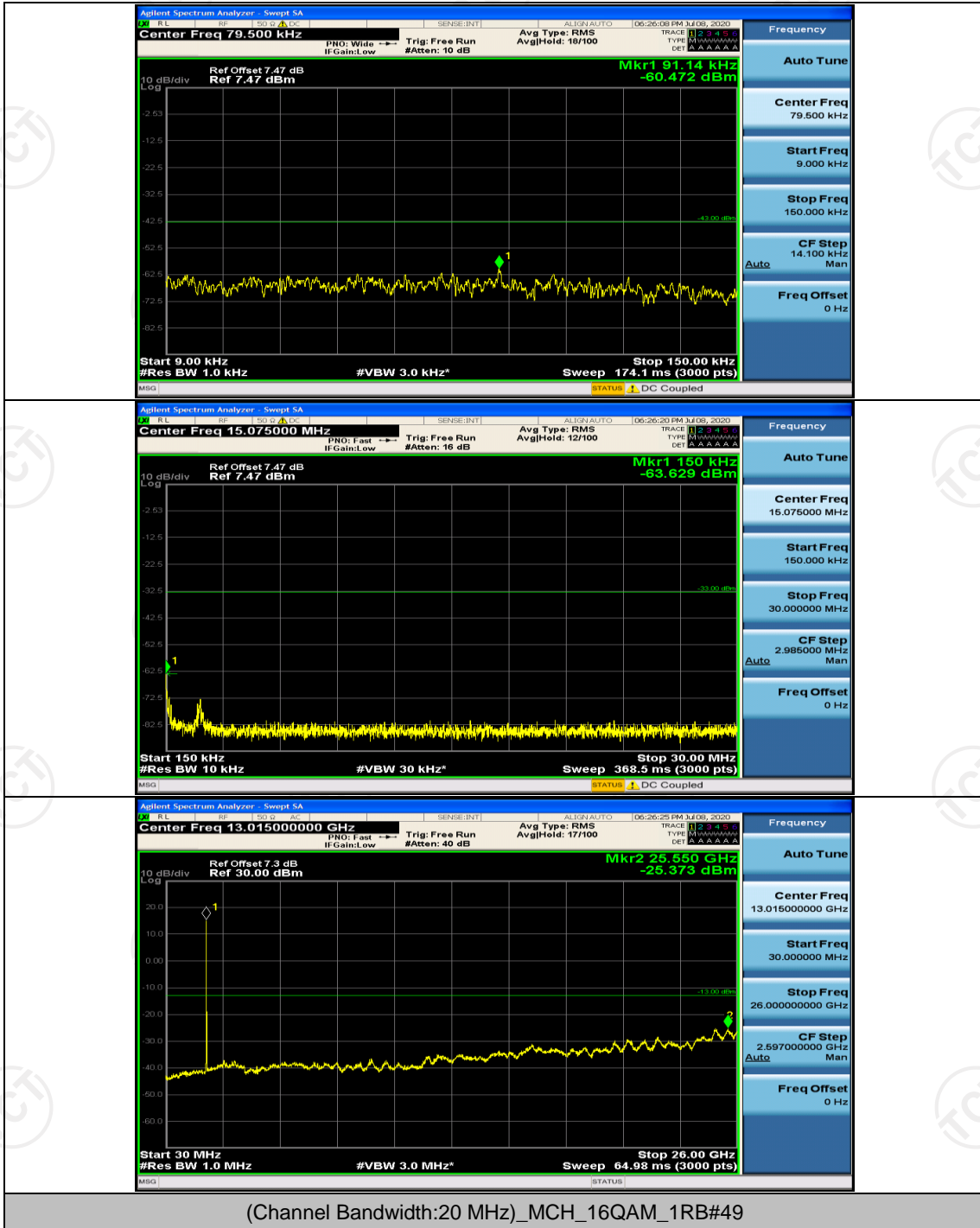


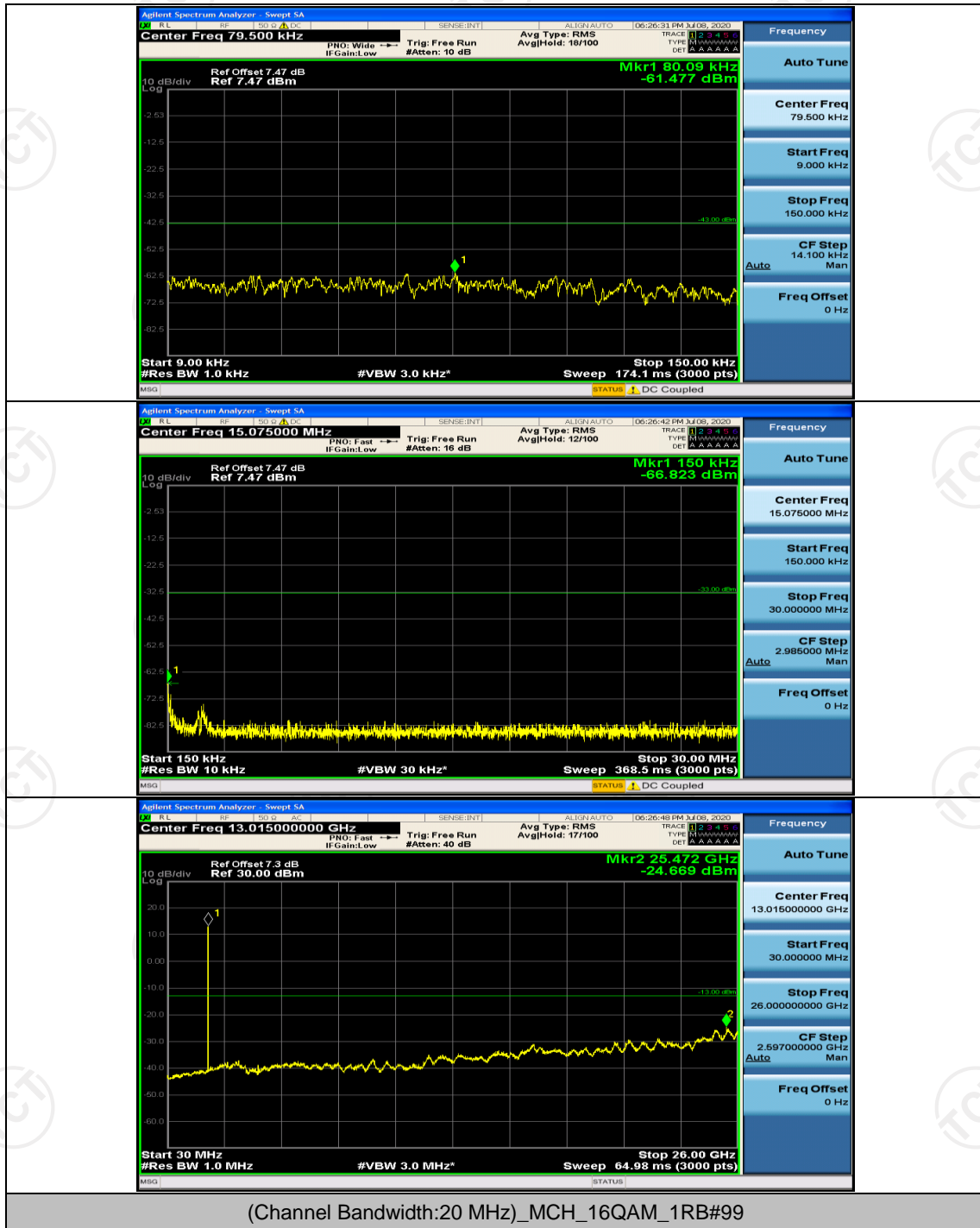


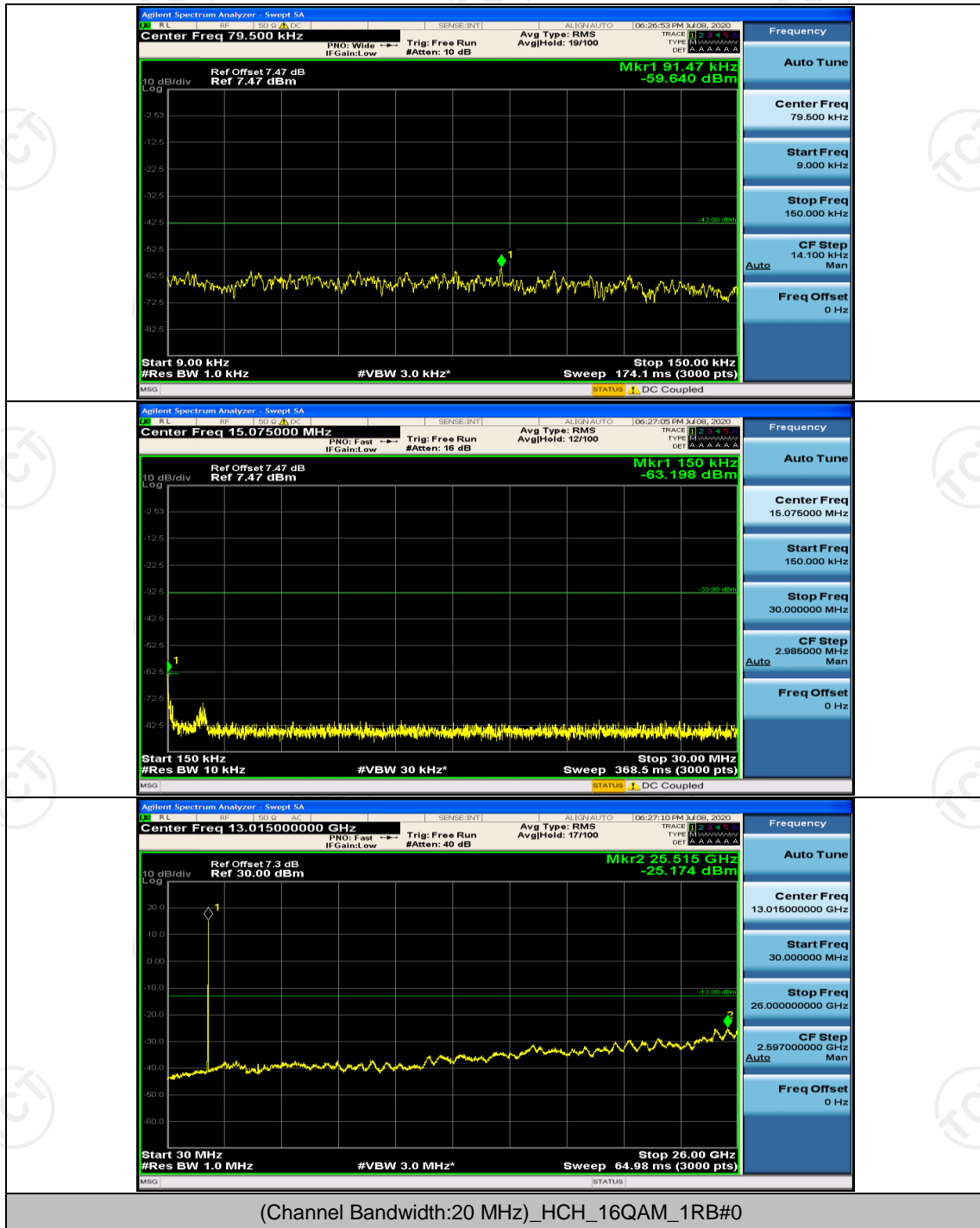


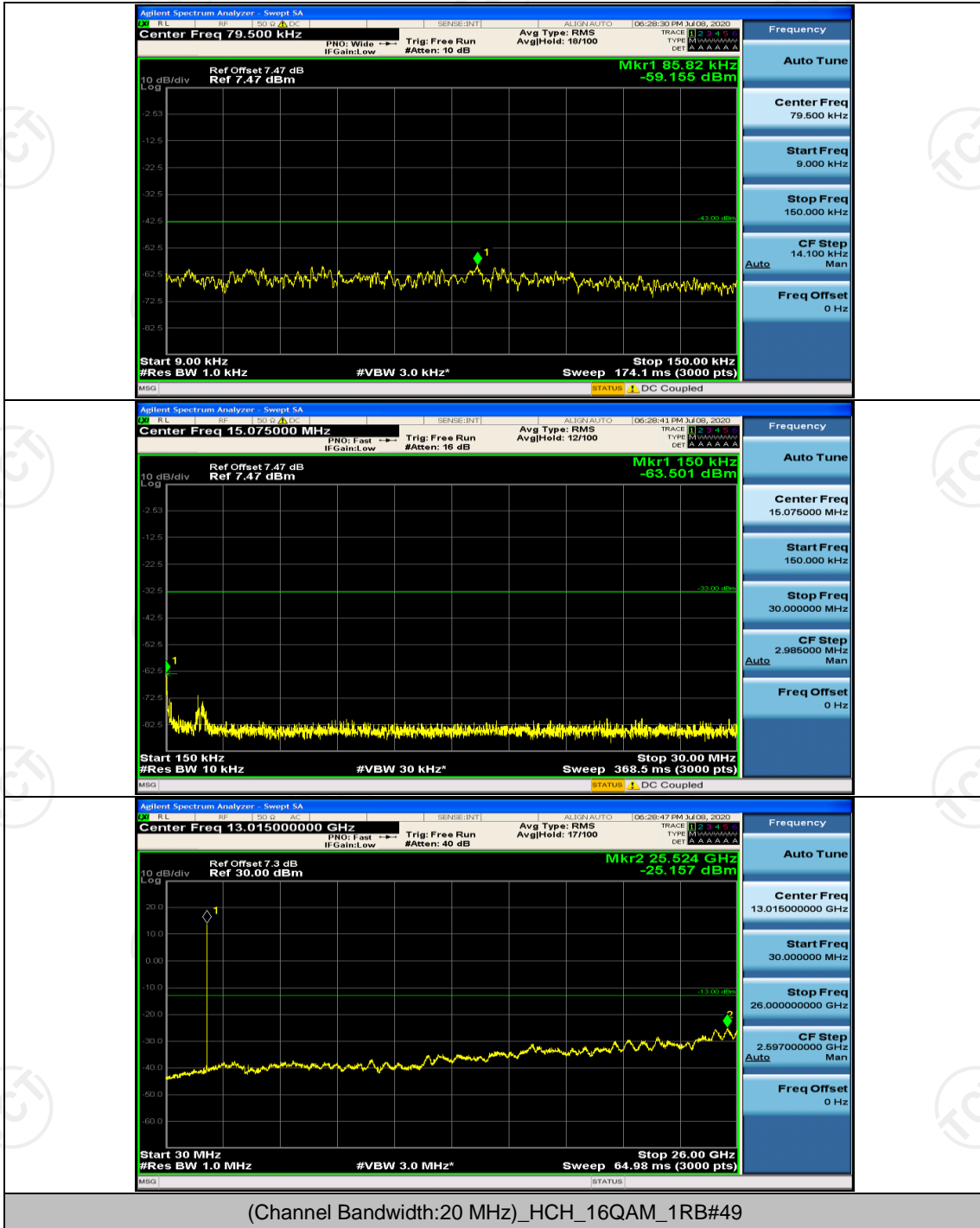


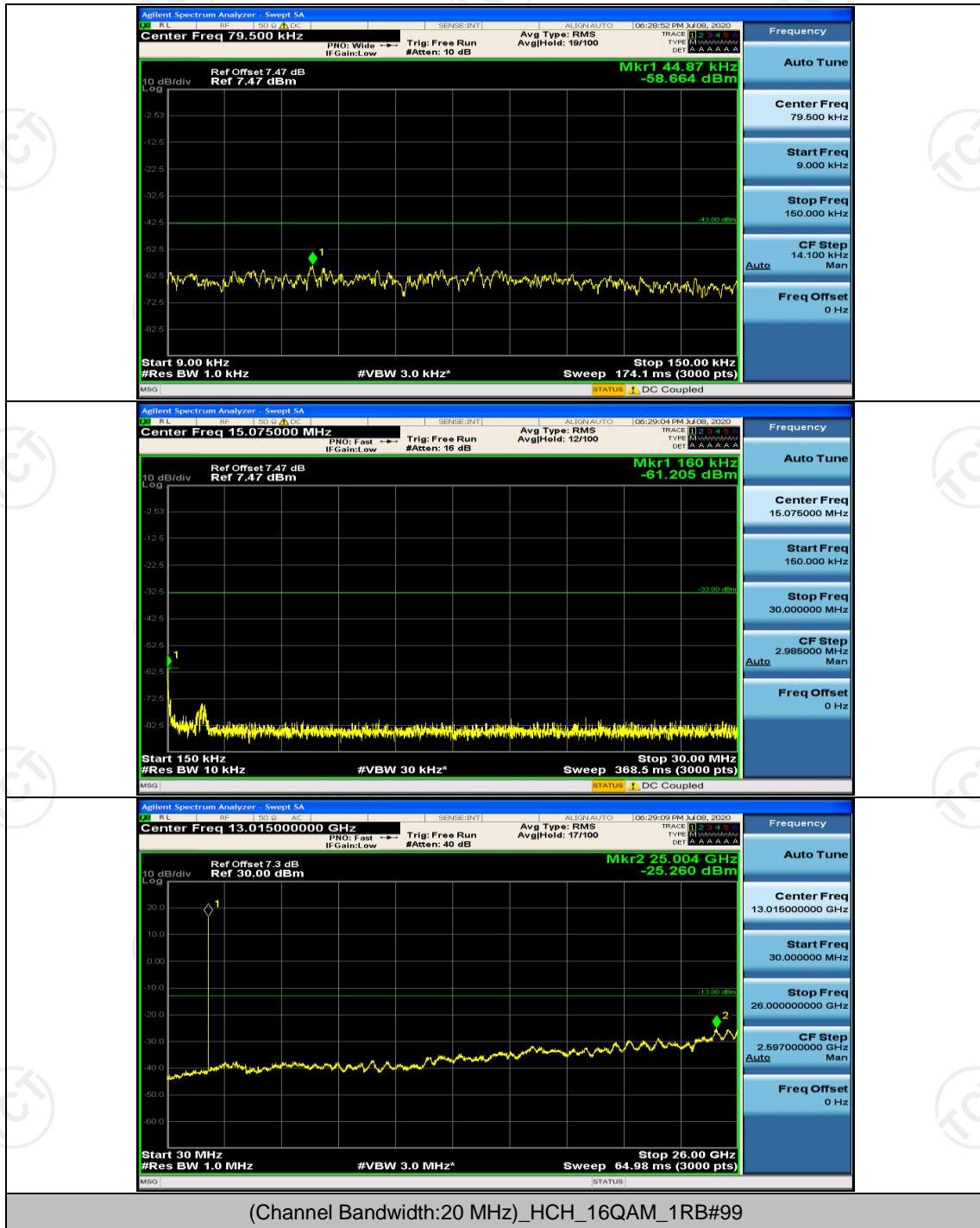


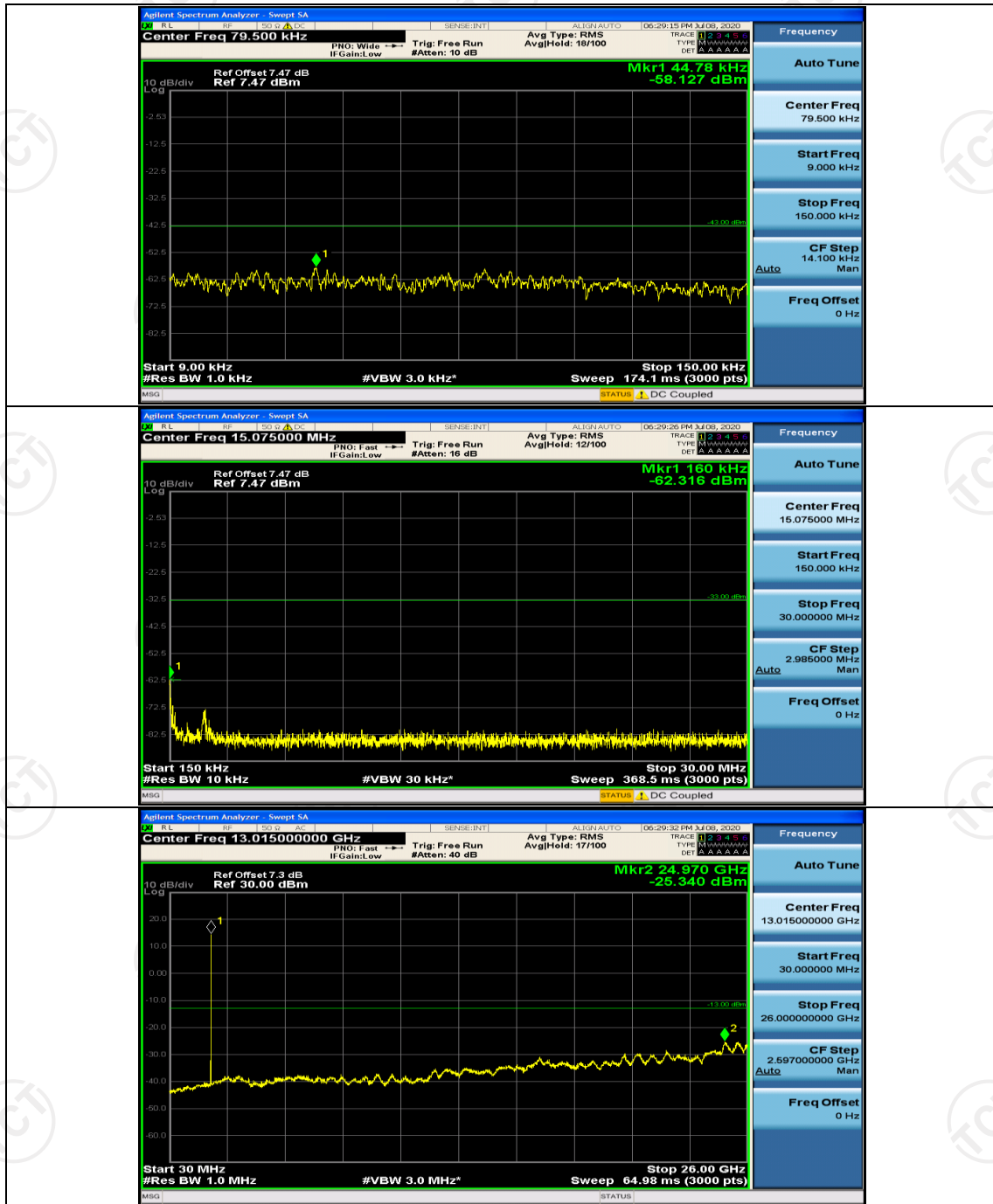












Appendix F: Frequency Stability

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 | 3.35 | 25 | 17.97 | 0.009419 | ± 2.5 | PASS |
| | | 3.85 | 25 | -11.49 | -0.006207 | ± 2.5 | PASS |
| | | 4.45 | 25 | -9.78 | -0.005205 | ± 2.5 | PASS |
| | MCH | 3.35 | 25 | -22.00 | -0.011703 | ± 2.5 | PASS |
| | | 3.85 | 25 | 32.37 | 0.017219 | ± 2.5 | PASS |
| | | 4.45 | 25 | -44.86 | -0.023518 | ± 2.5 | PASS |
| | HCH | 3.35 | 25 | -31.76 | -0.016649 | ± 2.5 | PASS |
| | | 3.85 | 25 | -32.79 | -0.017189 | ± 2.5 | PASS |
| | | 4.45 | 25 | 1.39 | 0.000727 | ± 2.5 | PASS |
| 16QAM | LCH | 3.35 | 25 | -40.98 | -0.022094 | ± 2.5 | PASS |
| | | 3.85 | 25 | -27.82 | -0.014999 | ± 2.5 | PASS |
| | | 4.45 | 25 | -20.18 | -0.010881 | ± 2.5 | PASS |
| | MCH | 3.35 | 25 | -43.80 | -0.023613 | ± 2.5 | PASS |
| | | 3.85 | 25 | 18.17 | 0.009664 | ± 2.5 | PASS |
| | | 4.45 | 25 | -4.16 | -0.002247 | ± 2.5 | PASS |
| | HCH | 3.35 | 25 | -36.96 | -0.019954 | ± 2.5 | PASS |
| | | 3.85 | 25 | -23.89 | -0.012896 | ± 2.5 | PASS |
| | | 4.45 | 25 | -47.51 | -0.025645 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | 3.85 | -30 | 37.91 | 0.020164 | ± 2.5 | PASS |
| | | 3.85 | -20 | 5.48 | 0.002914 | ± 2.5 | PASS |
| | | 3.85 | -10 | 39.63 | 0.021077 | ± 2.5 | PASS |
| | | 3.85 | 0 | 36.49 | 0.019411 | ± 2.5 | PASS |
| | | 3.85 | 10 | -2.12 | -0.001126 | ± 2.5 | PASS |
| | | 3.85 | 20 | -40.50 | -0.021882 | ± 2.5 | PASS |
| | | 3.85 | 30 | -19.94 | -0.010775 | ± 2.5 | PASS |
| | | 3.85 | 40 | -13.26 | -0.007165 | ± 2.5 | PASS |
| | | 3.85 | 50 | -20.30 | -0.010968 | ± 2.5 | PASS |
| | MCH | 3.85 | -30 | 29.97 | 0.016186 | ± 2.5 | PASS |
| | | 3.85 | -20 | 11.57 | 0.006251 | ± 2.5 | PASS |

| | | | | | | | | |
|------|------|------|--------|-----------|-----------|-----------|-------|------|
| | | 3.85 | -10 | 36.46 | 0.019694 | ± 2.5 | PASS | |
| | | 3.85 | 0 | 2.27 | 0.001228 | ± 2.5 | PASS | |
| | | 3.85 | 10 | -1.32 | -0.000690 | ± 2.5 | PASS | |
| | | 3.85 | 20 | 23.65 | 0.012578 | ± 2.5 | PASS | |
| | | 3.85 | 30 | 11.62 | 0.006179 | ± 2.5 | PASS | |
| | | 3.85 | 40 | -0.84 | -0.000449 | ± 2.5 | PASS | |
| | | 3.85 | 50 | -8.33 | -0.004428 | ± 2.5 | PASS | |
| | HCH | 3.85 | -30 | -3.72 | -0.002009 | ± 2.5 | PASS | |
| | | 3.85 | -20 | 2.45 | 0.001282 | ± 2.5 | PASS | |
| | | 3.85 | -10 | -22.99 | -0.012045 | ± 2.5 | PASS | |
| | | 3.85 | 0 | -22.14 | -0.011603 | ± 2.5 | PASS | |
| | | 3.85 | 10 | -7.25 | -0.003800 | ± 2.5 | PASS | |
| | | 3.85 | 20 | -43.47 | -0.022769 | ± 2.5 | PASS | |
| | | 3.85 | 30 | -17.95 | -0.009403 | ± 2.5 | PASS | |
| | | 3.85 | 40 | -22.76 | -0.011920 | ± 2.5 | PASS | |
| | | 3.85 | 50 | -19.64 | -0.010287 | ± 2.5 | PASS | |
| | | LCH | 3.85 | -30 | -26.02 | -0.013841 | ± 2.5 | PASS |
| | | | 3.85 | -20 | -39.80 | -0.021169 | ± 2.5 | PASS |
| | 3.85 | | -10 | -1.04 | -0.000555 | ± 2.5 | PASS | |
| | 3.85 | | 0 | -13.89 | -0.007388 | ± 2.5 | PASS | |
| | 3.85 | | 10 | -20.96 | -0.010981 | ± 2.5 | PASS | |
| | 3.85 | | 20 | -17.17 | -0.009275 | ± 2.5 | PASS | |
| | 3.85 | | 30 | 21.82 | 0.011788 | ± 2.5 | PASS | |
| | 3.85 | | 40 | 6.84 | 0.003695 | ± 2.5 | PASS | |
| | 3.85 | | 50 | 22.33 | 0.012066 | ± 2.5 | PASS | |
| | MCH | | 3.85 | -30 | 41.34 | 0.021662 | ± 2.5 | PASS |
| | | 3.85 | -20 | 26.56 | 0.013919 | ± 2.5 | PASS | |
| | | 3.85 | -10 | 5.04 | 0.002638 | ± 2.5 | PASS | |
| 3.85 | | 0 | 20.66 | 0.010823 | ± 2.5 | PASS | | |
| 3.85 | | 10 | -6.22 | -0.003310 | ± 2.5 | PASS | | |
| 3.85 | | 20 | -10.63 | -0.005654 | ± 2.5 | PASS | | |
| 3.85 | | 30 | 21.82 | 0.011604 | ± 2.5 | PASS | | |
| 3.85 | | 40 | 17.21 | 0.009154 | ± 2.5 | PASS | | |
| 3.85 | | 50 | 41.28 | 0.021960 | ± 2.5 | PASS | | |
| HCH | | 3.85 | -30 | -13.90 | -0.007510 | ± 2.5 | PASS | |
| | 3.85 | -20 | -0.83 | -0.000448 | ± 2.5 | PASS | | |
| | 3.85 | -10 | -48.37 | -0.026122 | ± 2.5 | PASS | | |
| | 3.85 | 0 | -22.09 | -0.011929 | ± 2.5 | PASS | | |
| | 3.85 | 10 | -16.48 | -0.008901 | ± 2.5 | PASS | | |
| | 3.85 | 20 | 42.27 | 0.022140 | ± 2.5 | PASS | | |
| | 3.85 | 30 | 38.50 | 0.020162 | ± 2.5 | PASS | | |

| | | | | | | | |
|--|--|------|----|-------|----------|-------|------|
| | | 3.85 | 40 | 8.74 | 0.004578 | ± 2.5 | PASS |
| | | 3.85 | 50 | 29.58 | 0.015494 | ± 2.5 | PASS |