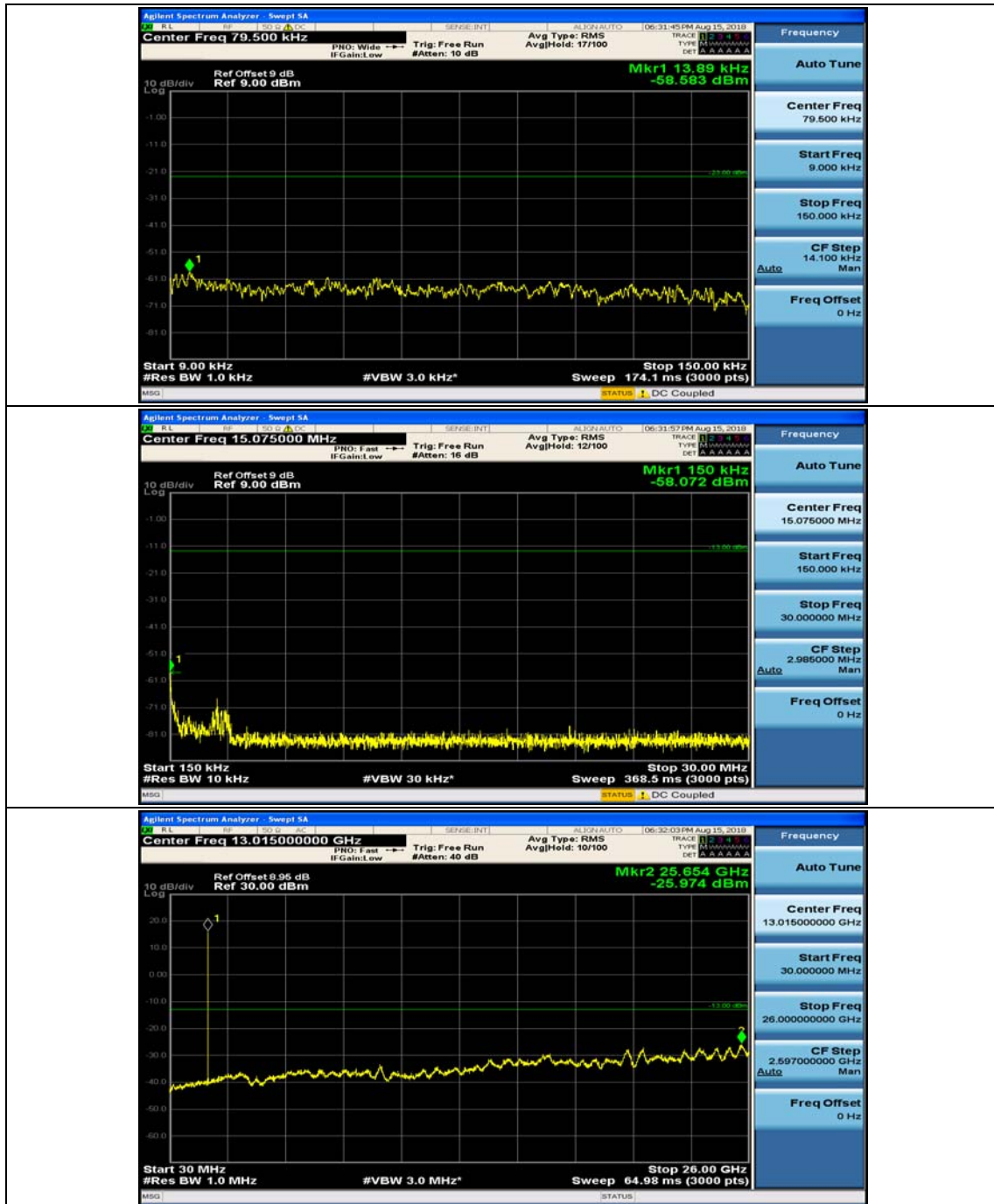
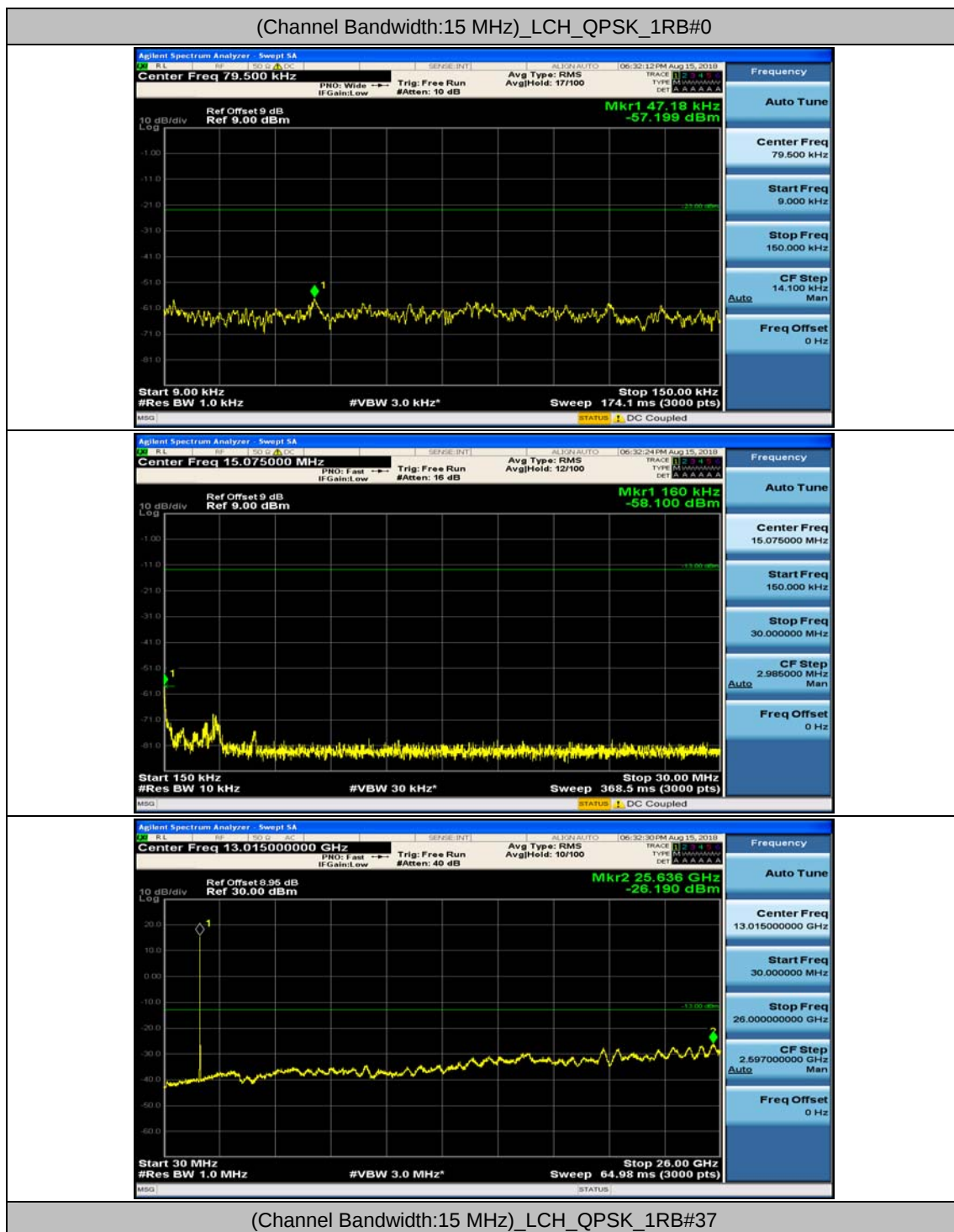
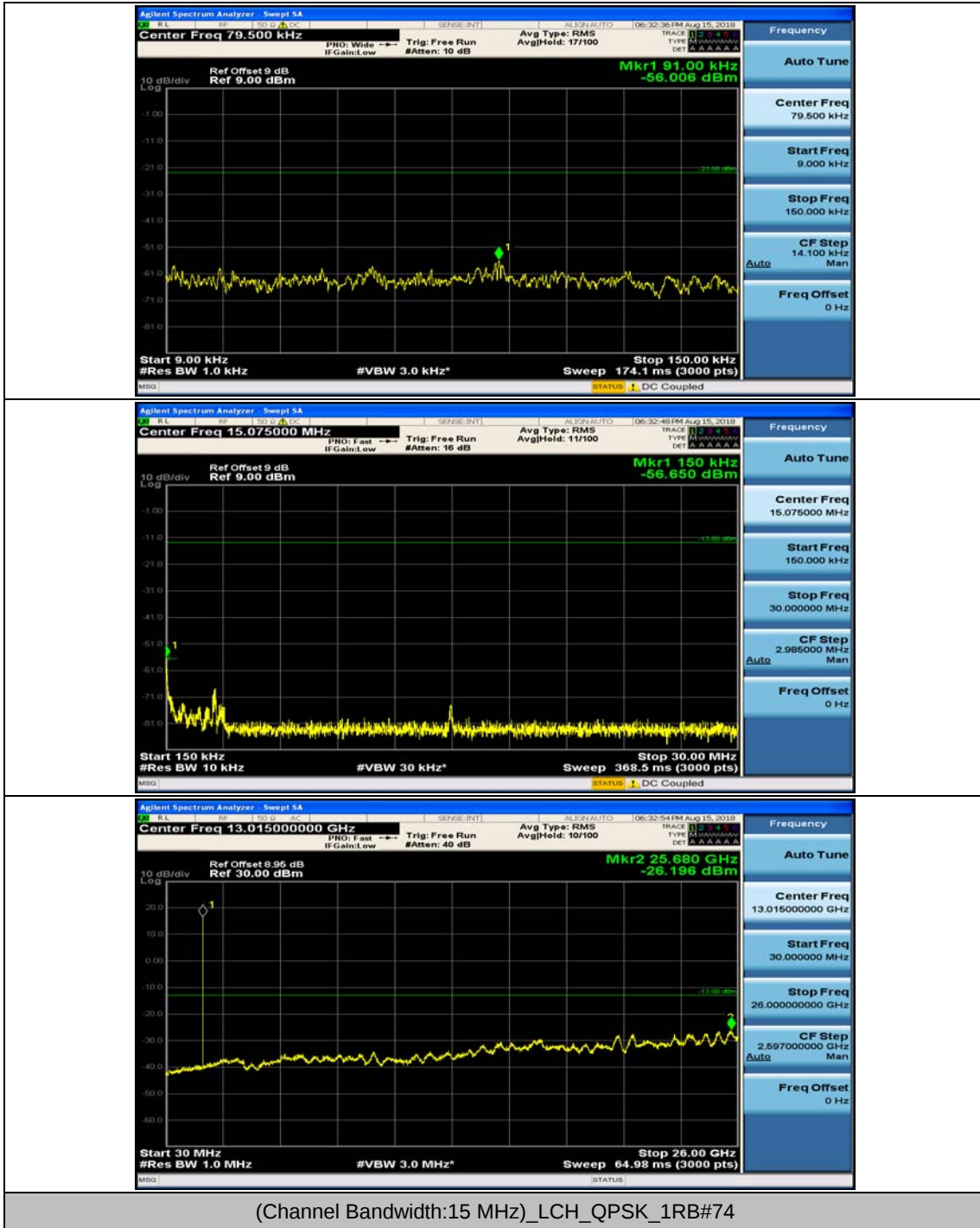
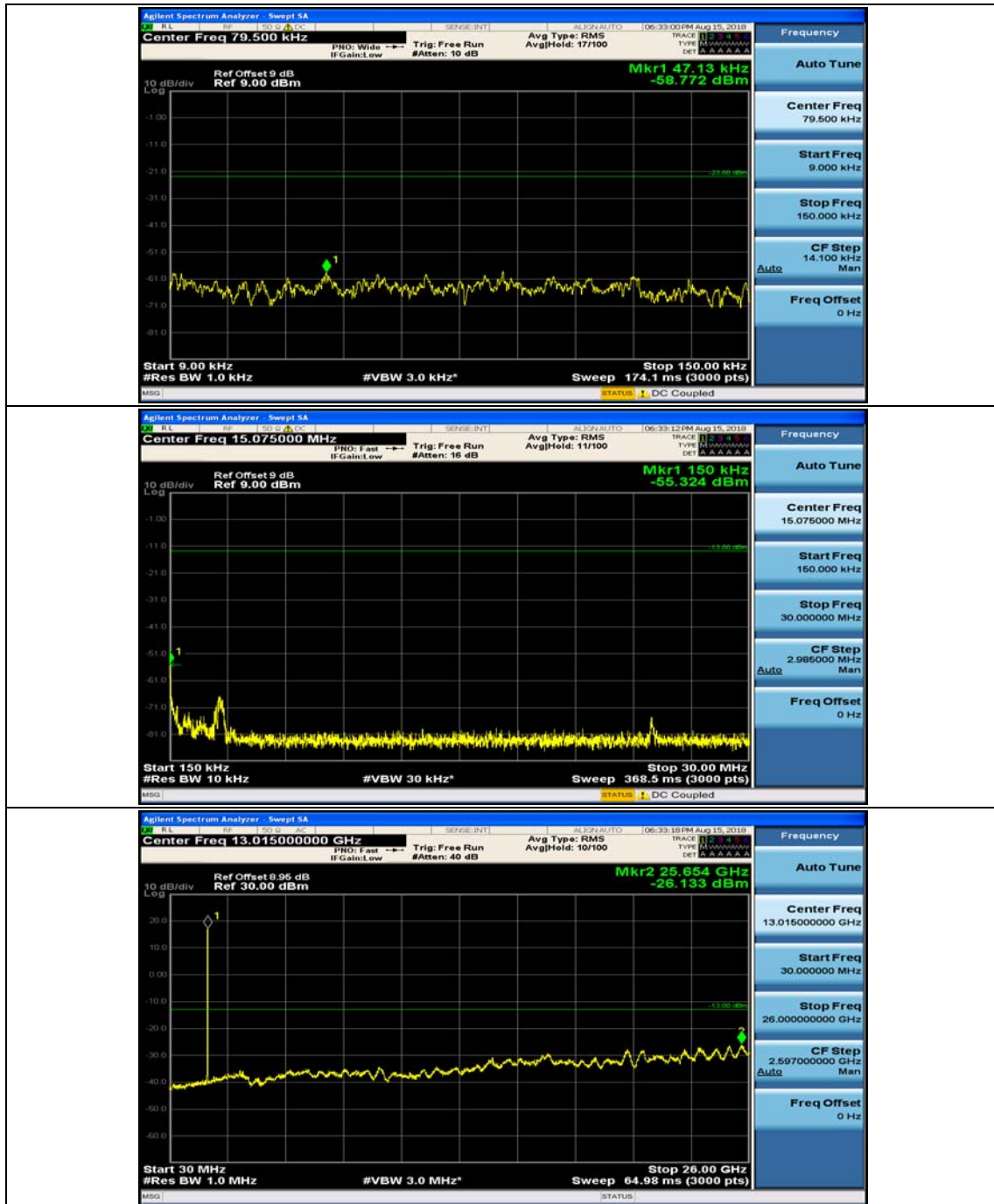




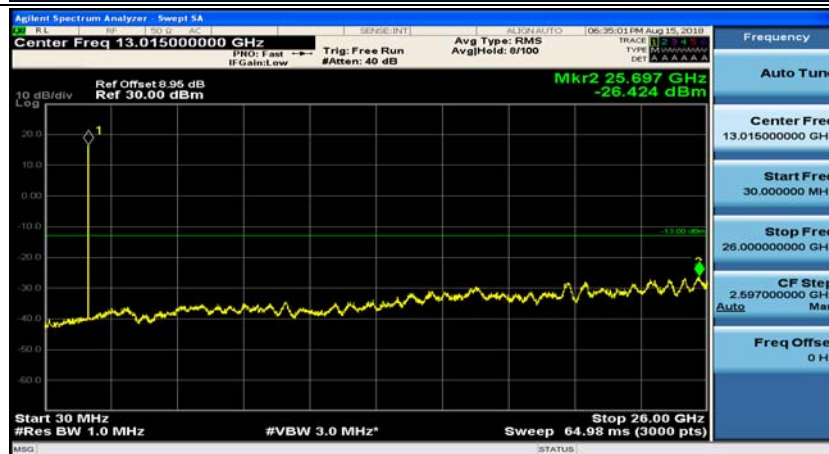
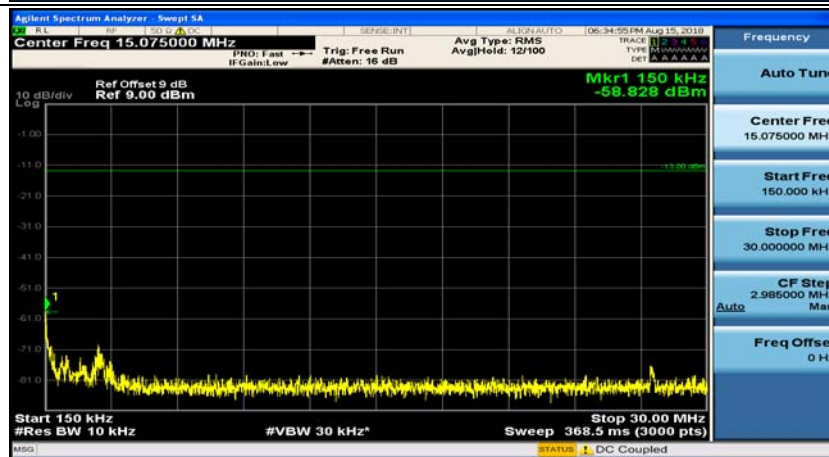
## Channel Bandwidth: 15 MHz



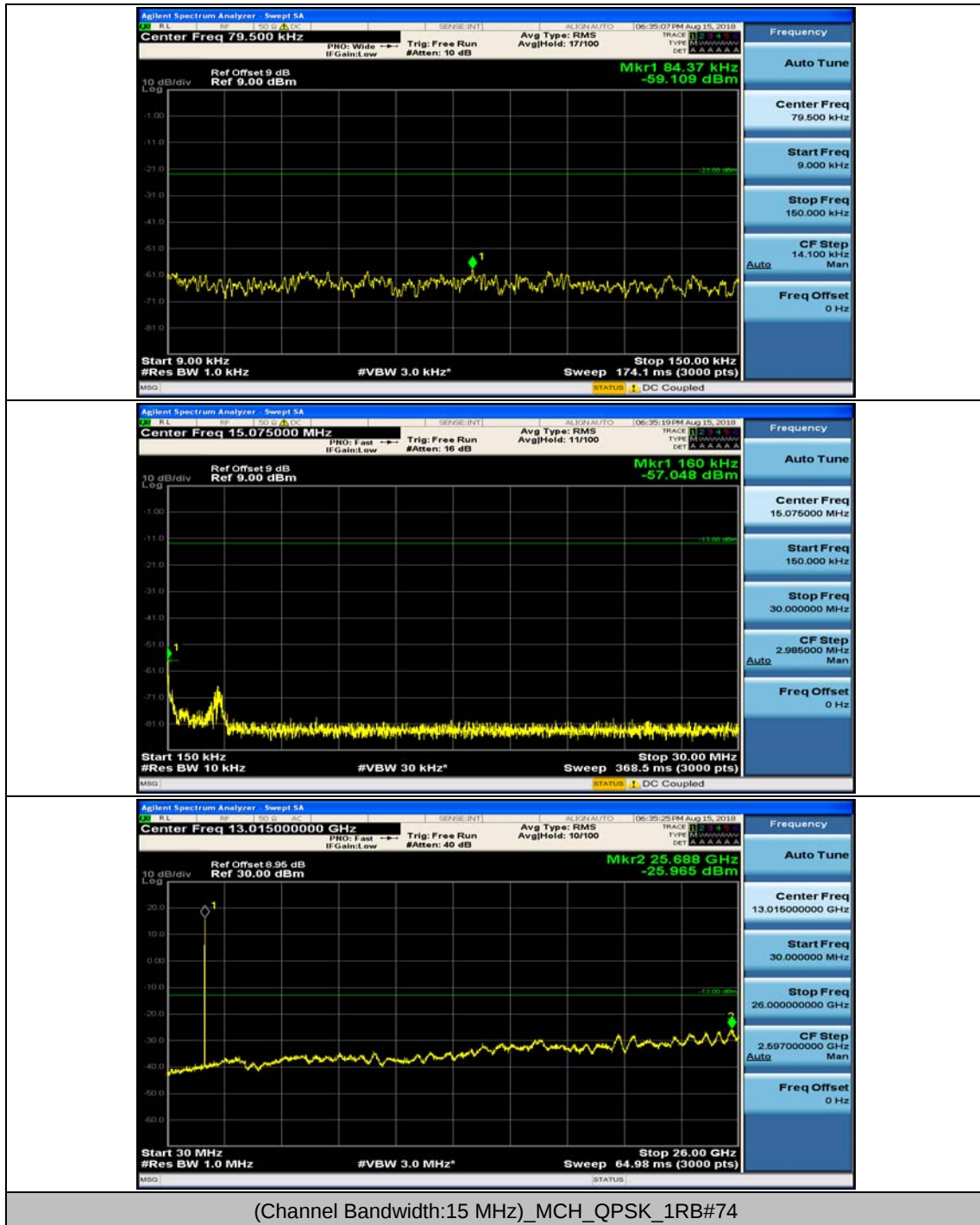


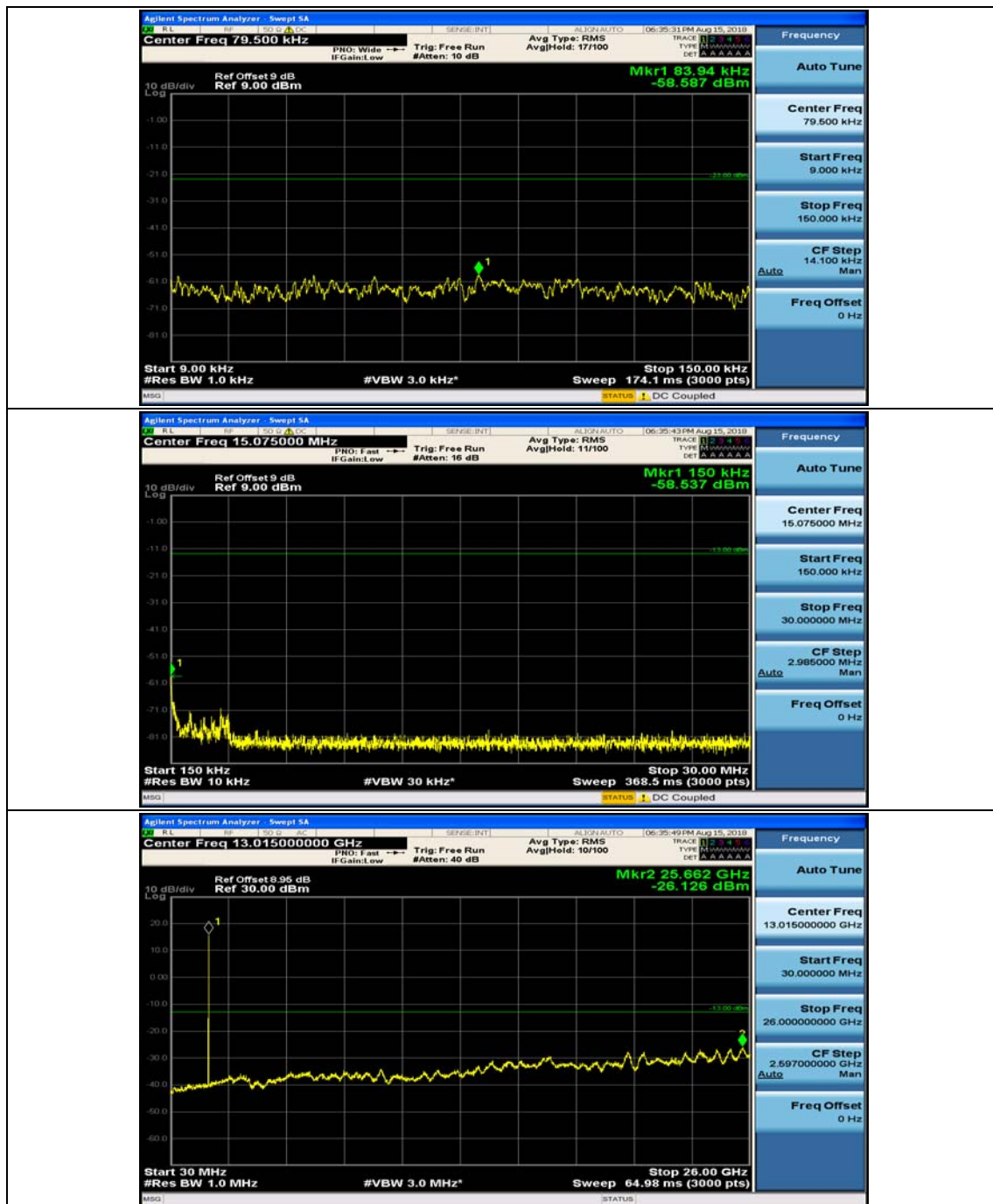


(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_1RB#0

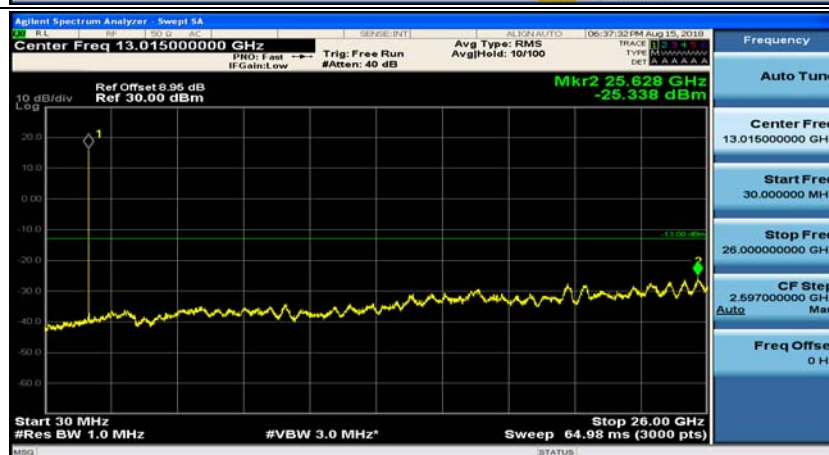
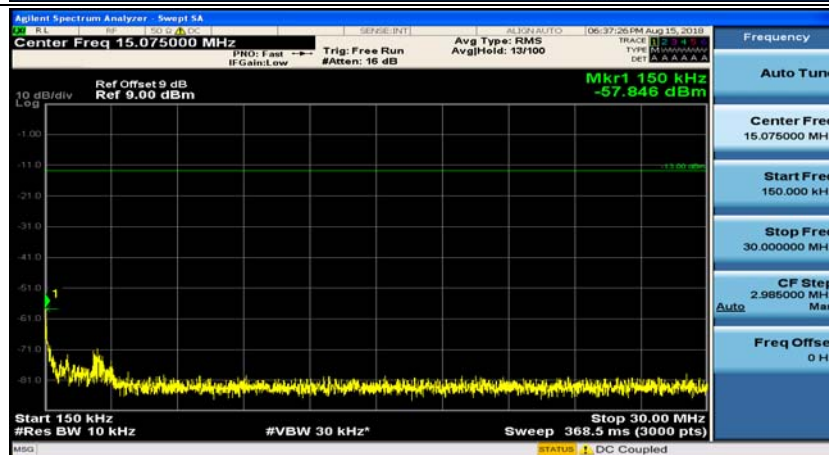
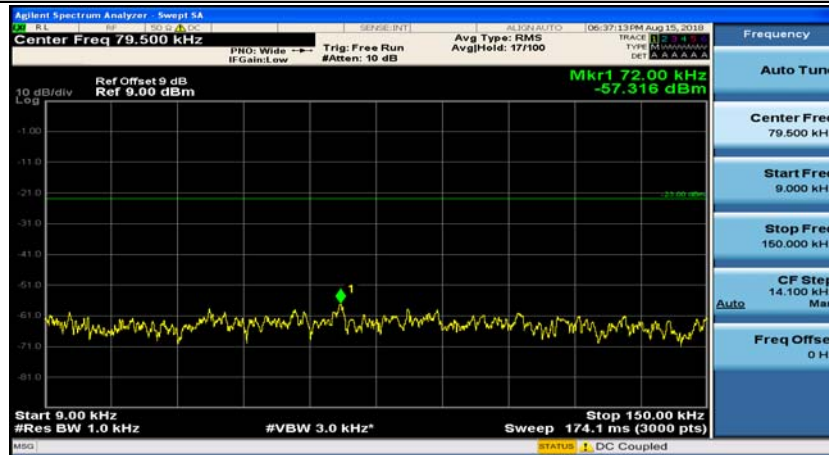


(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_1RB#37

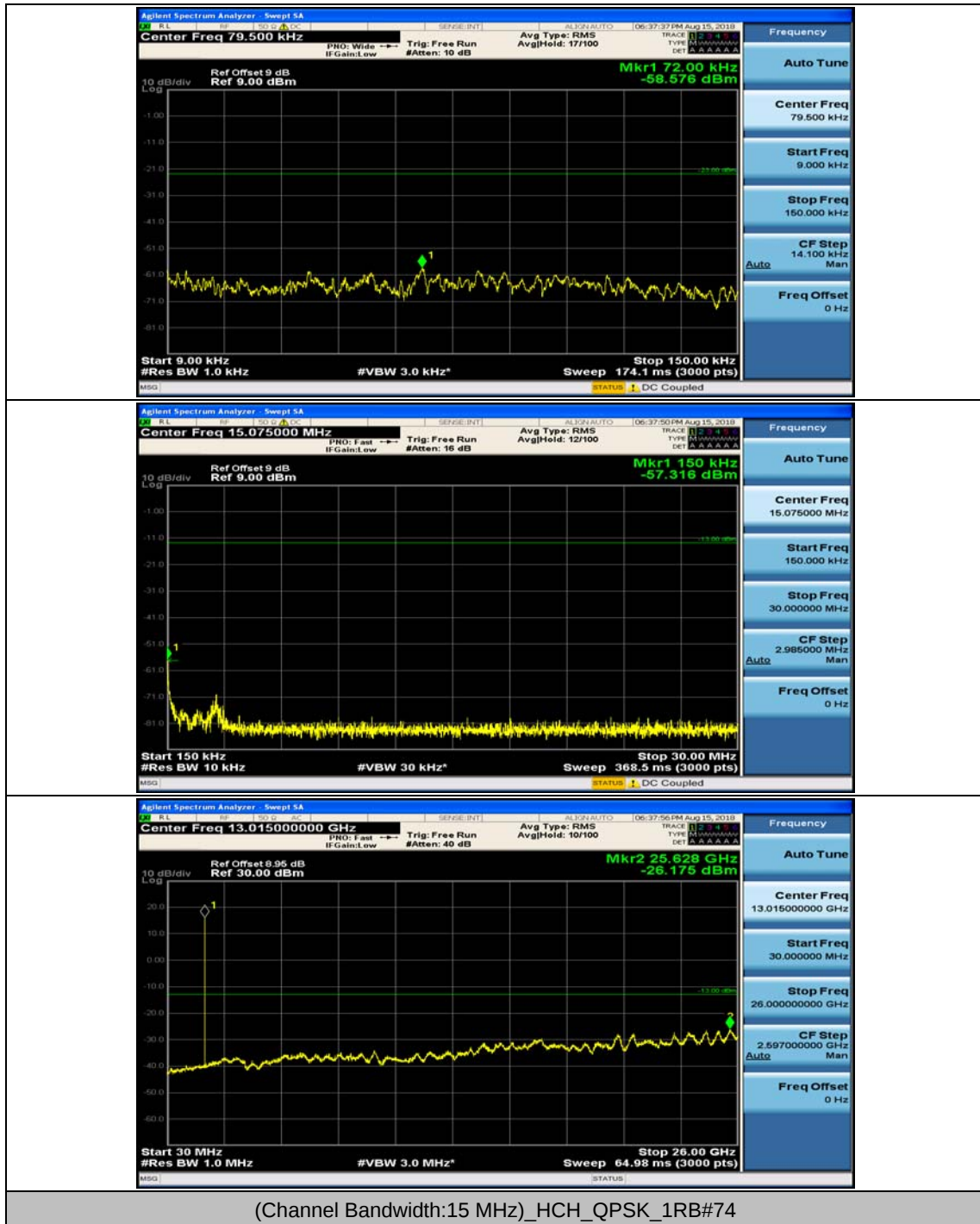


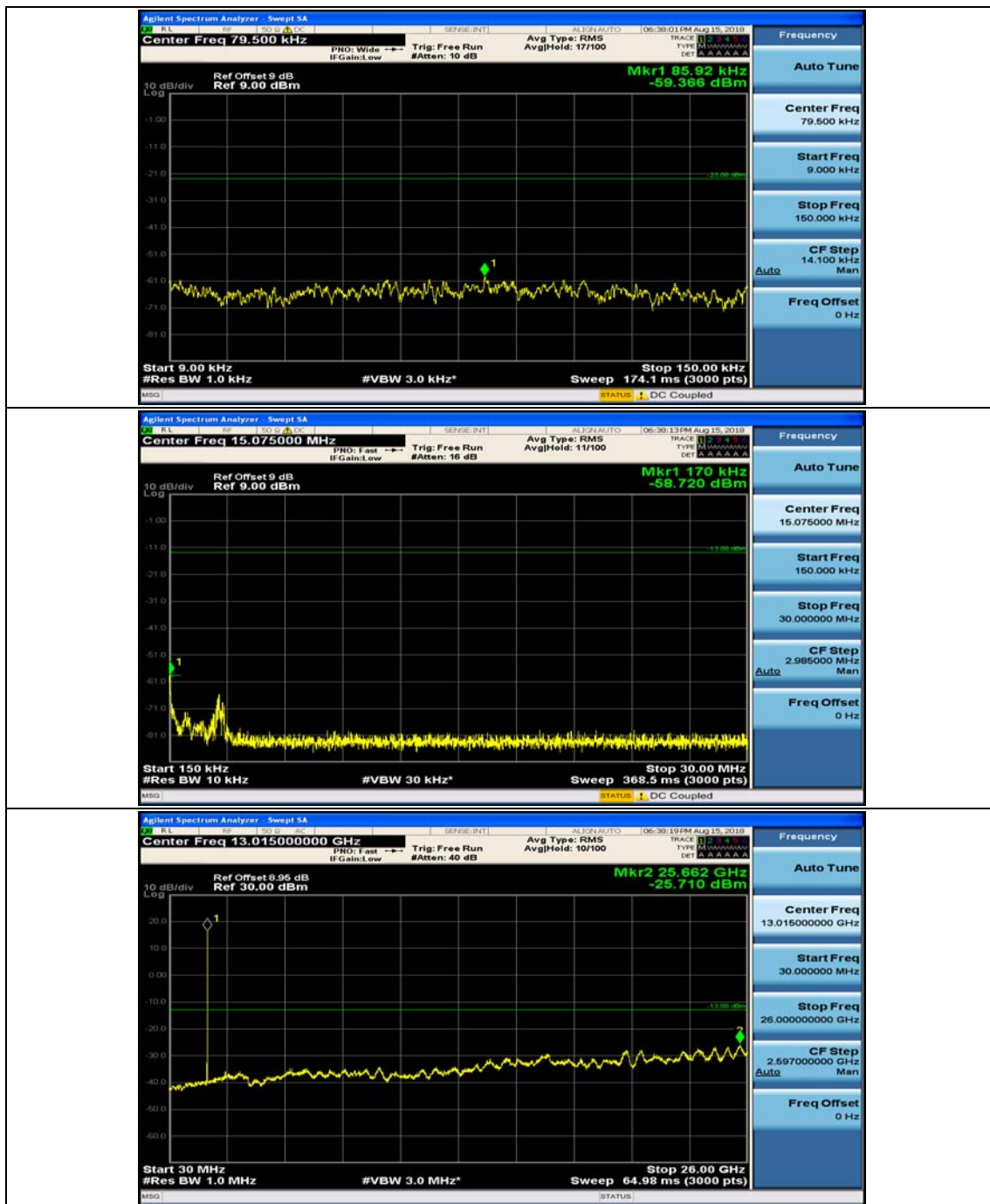


(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#0

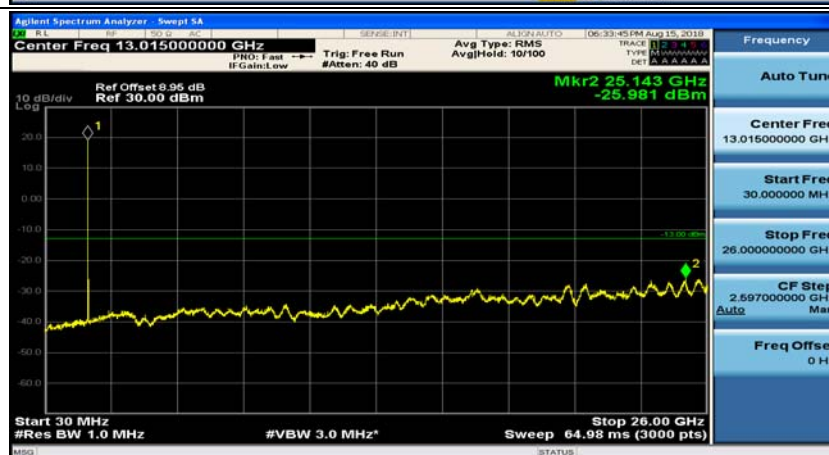
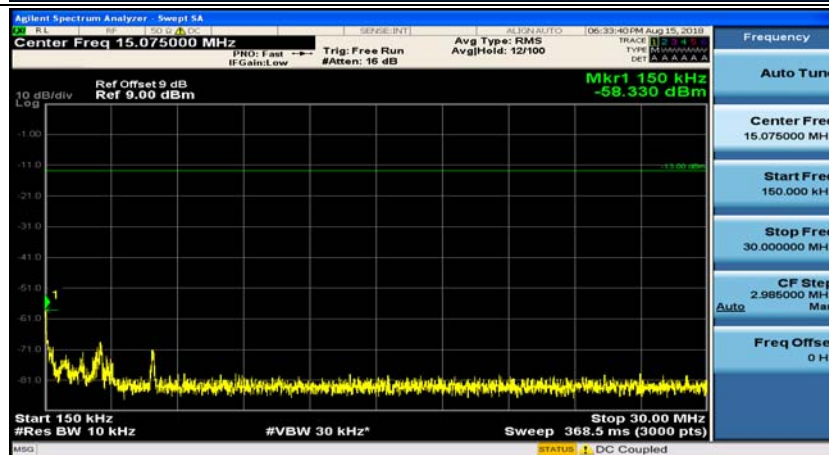
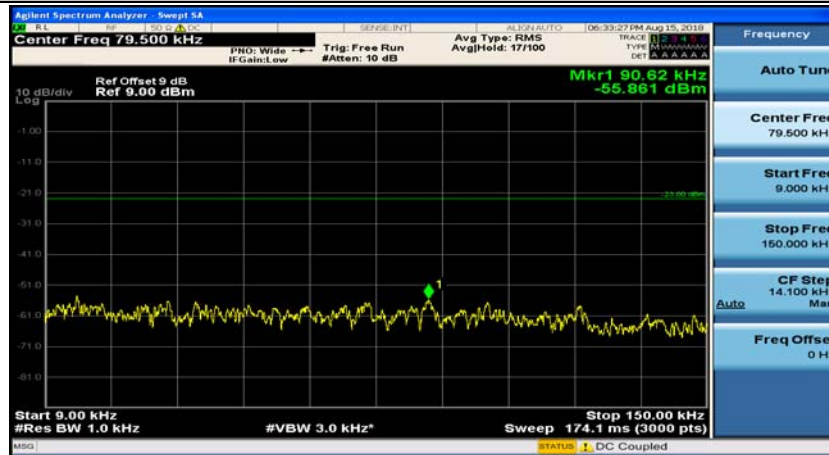


(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#37

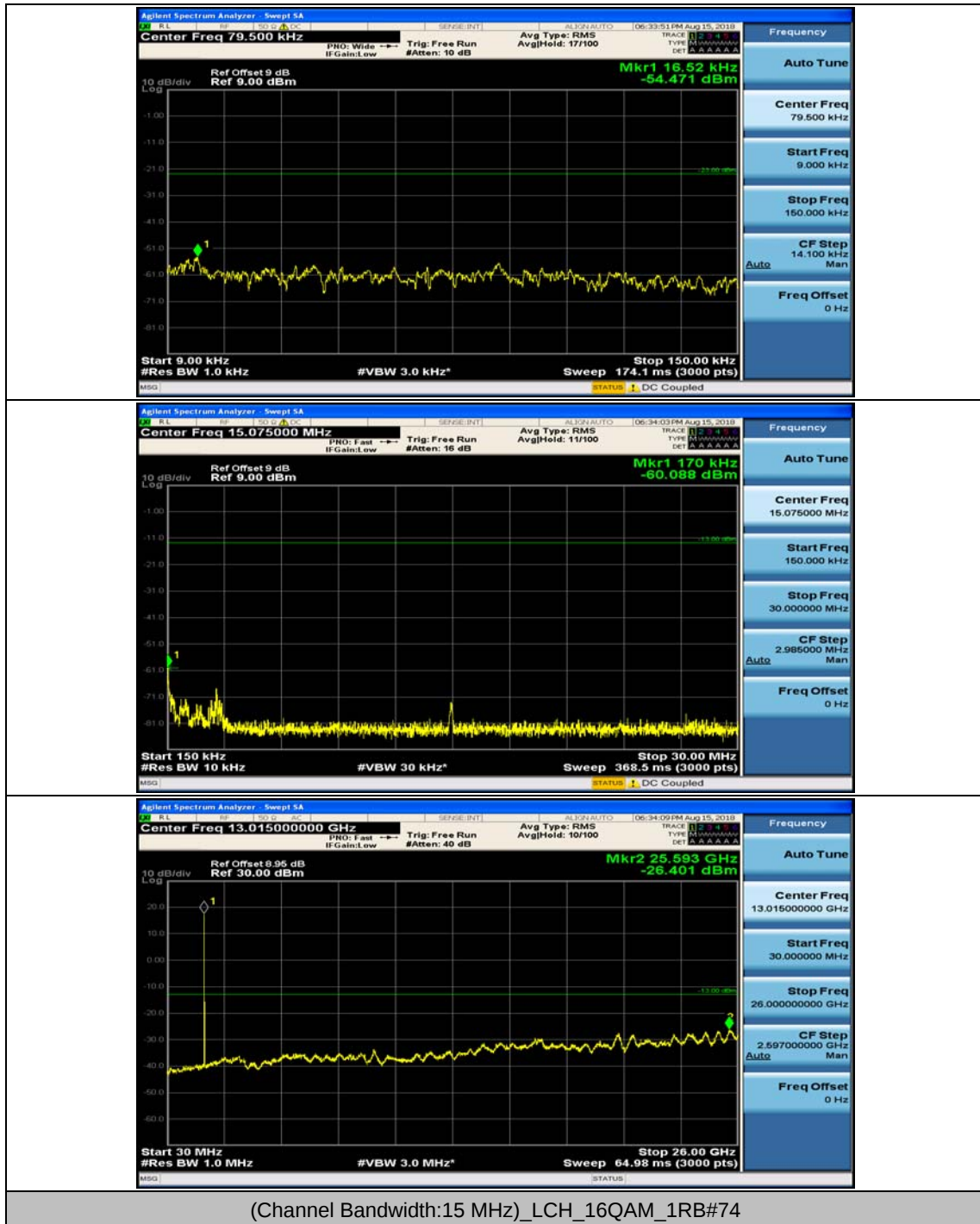


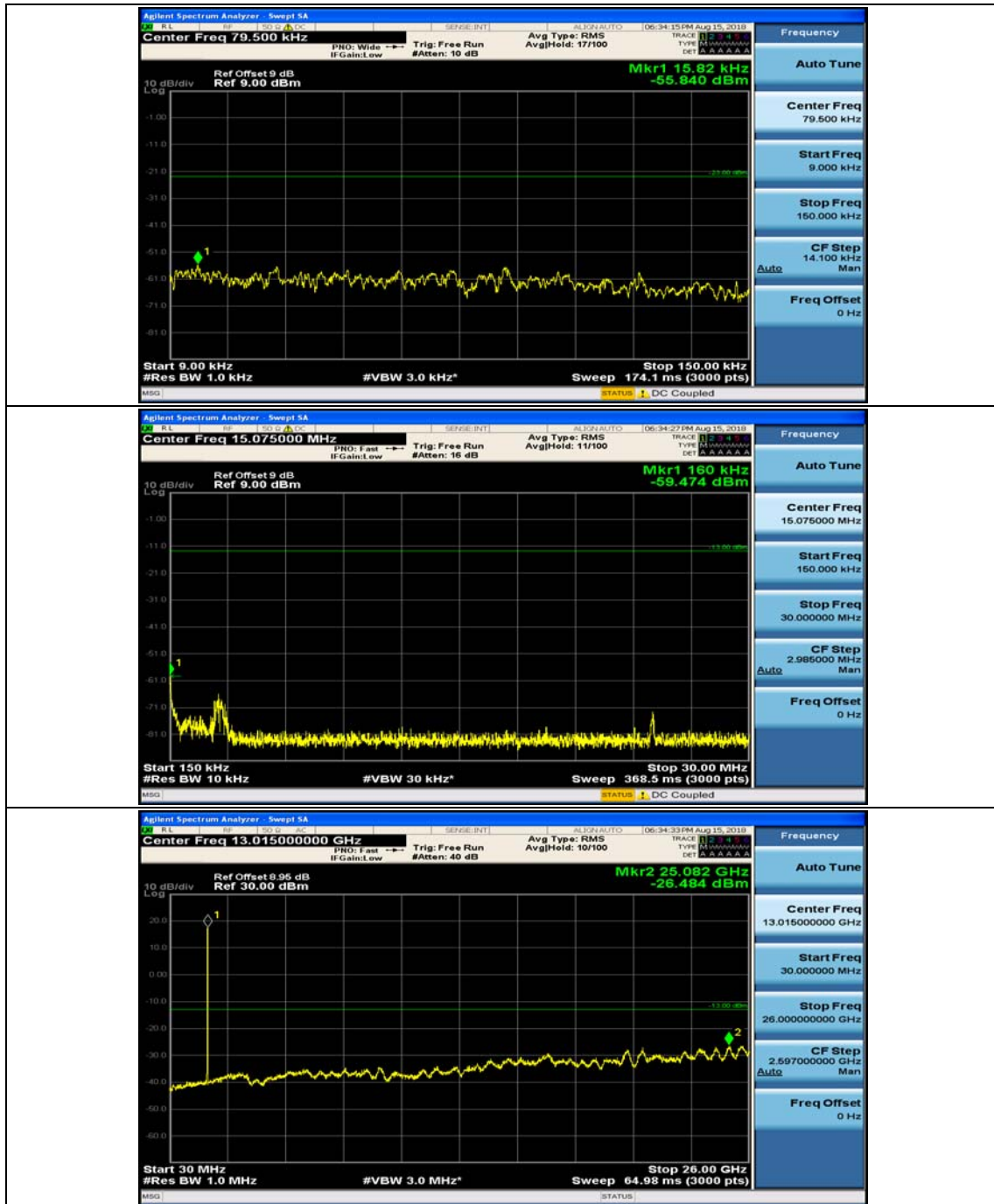


(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_1RB#0

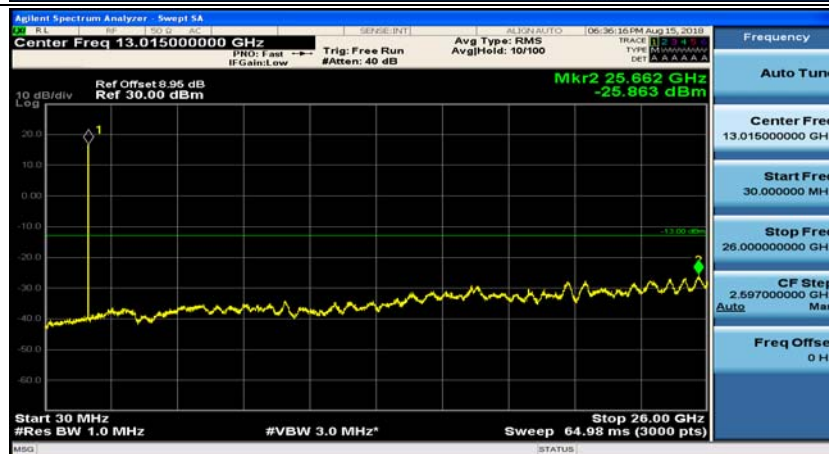
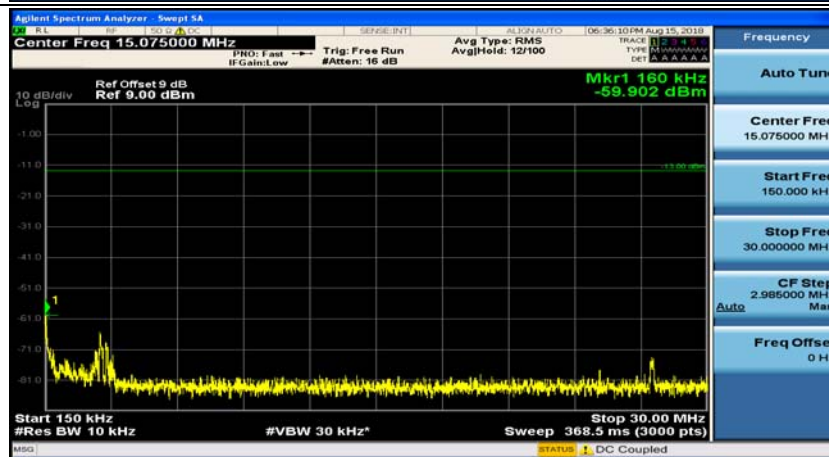


(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_1RB#37

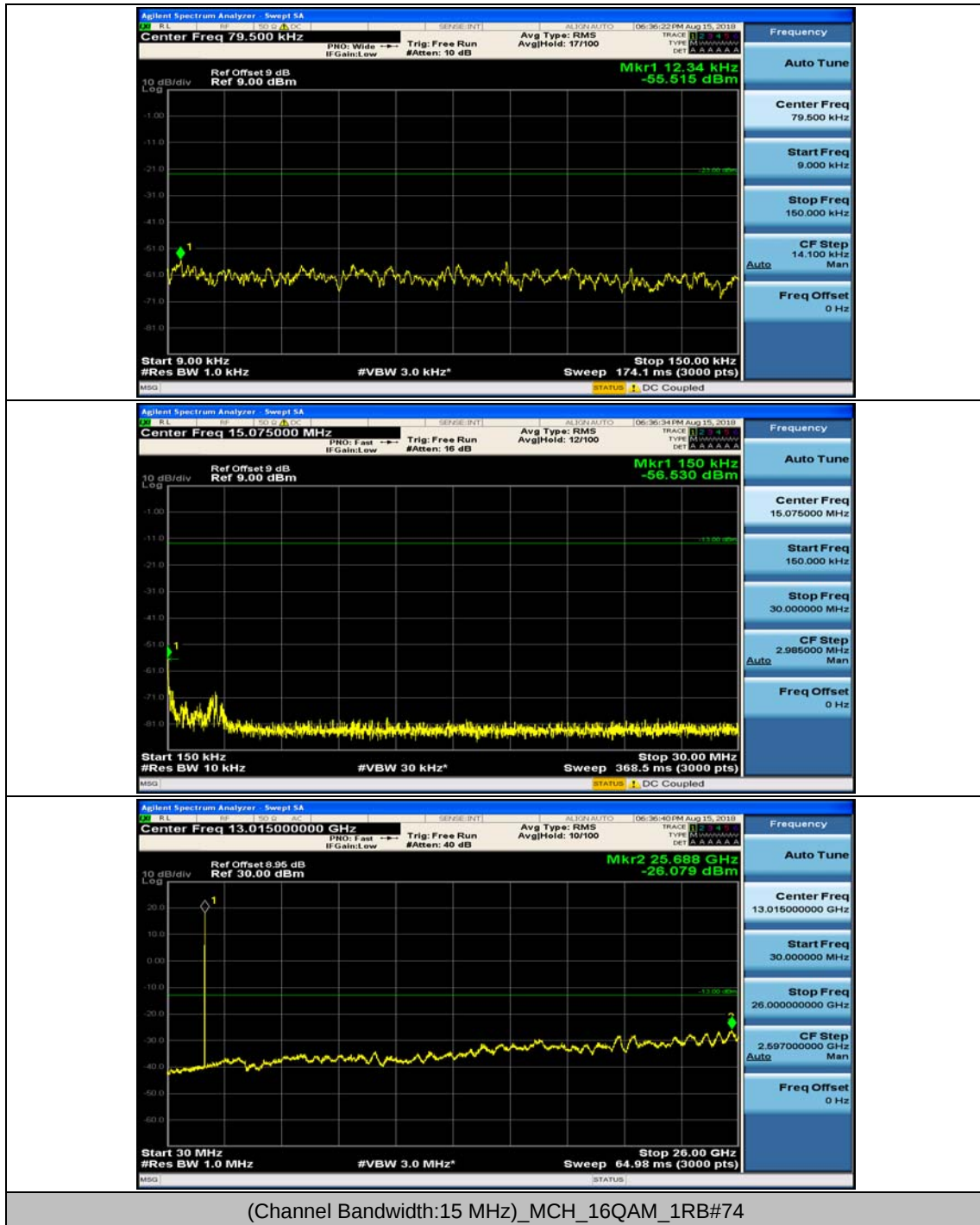


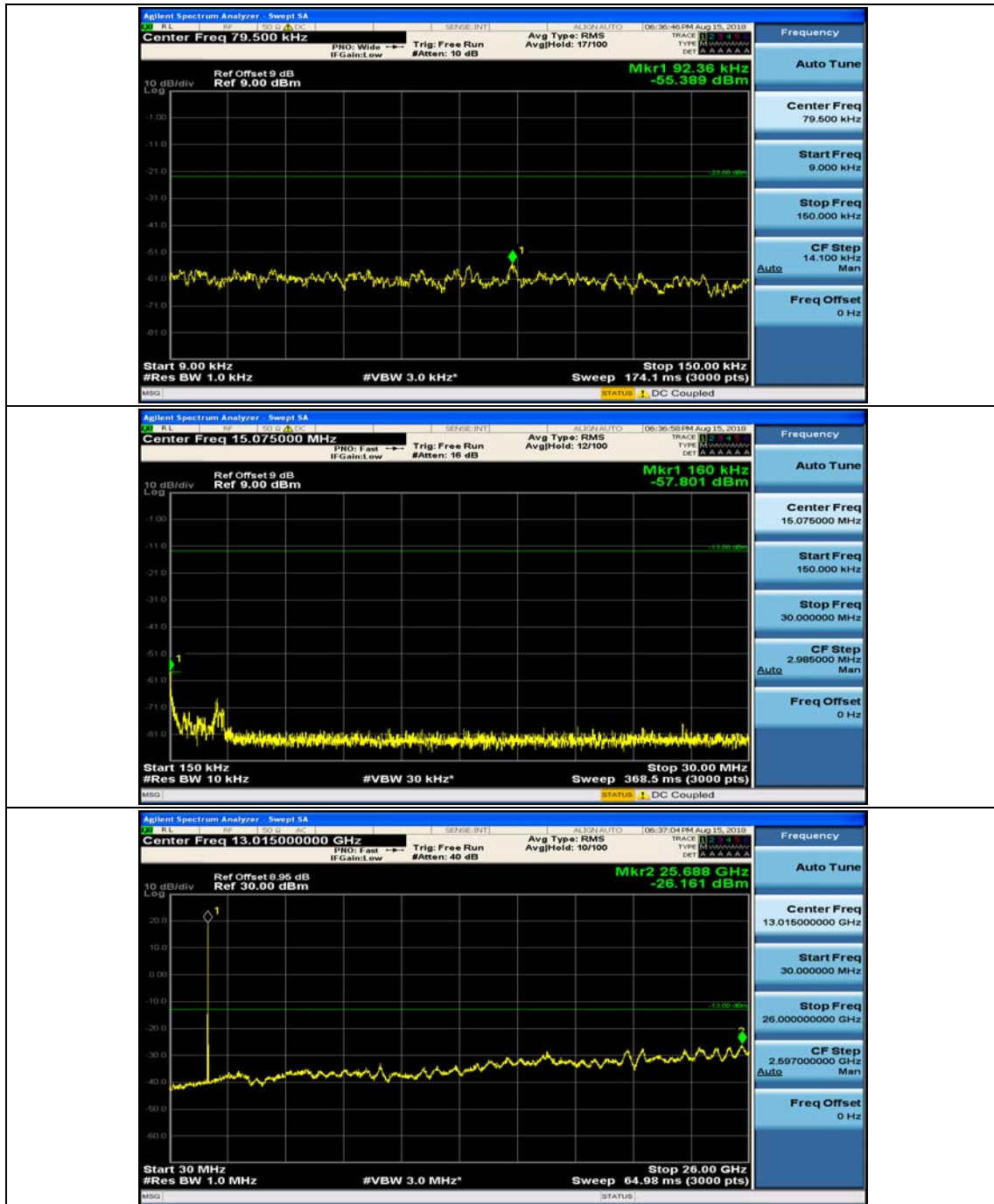


(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#0

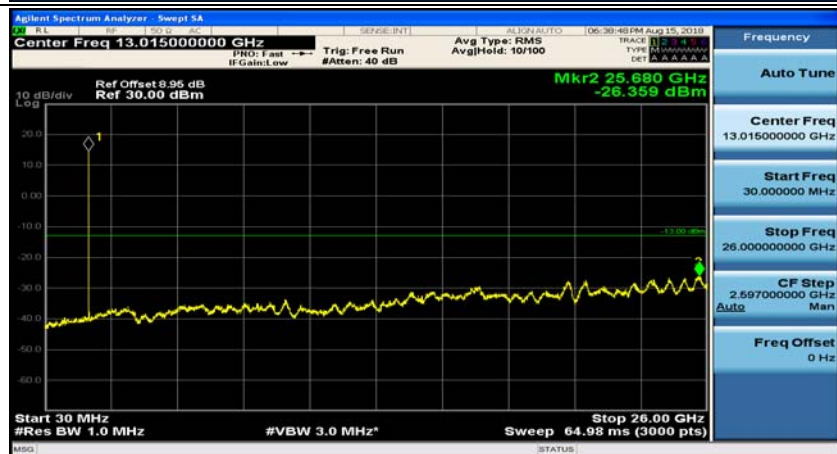
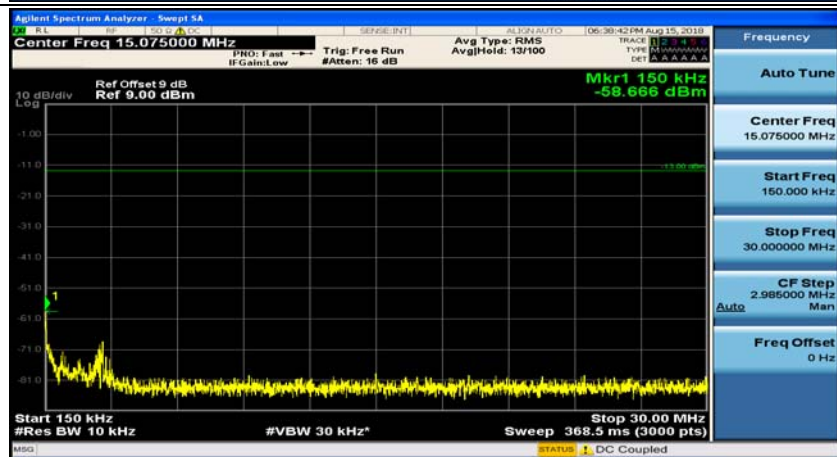


(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#37

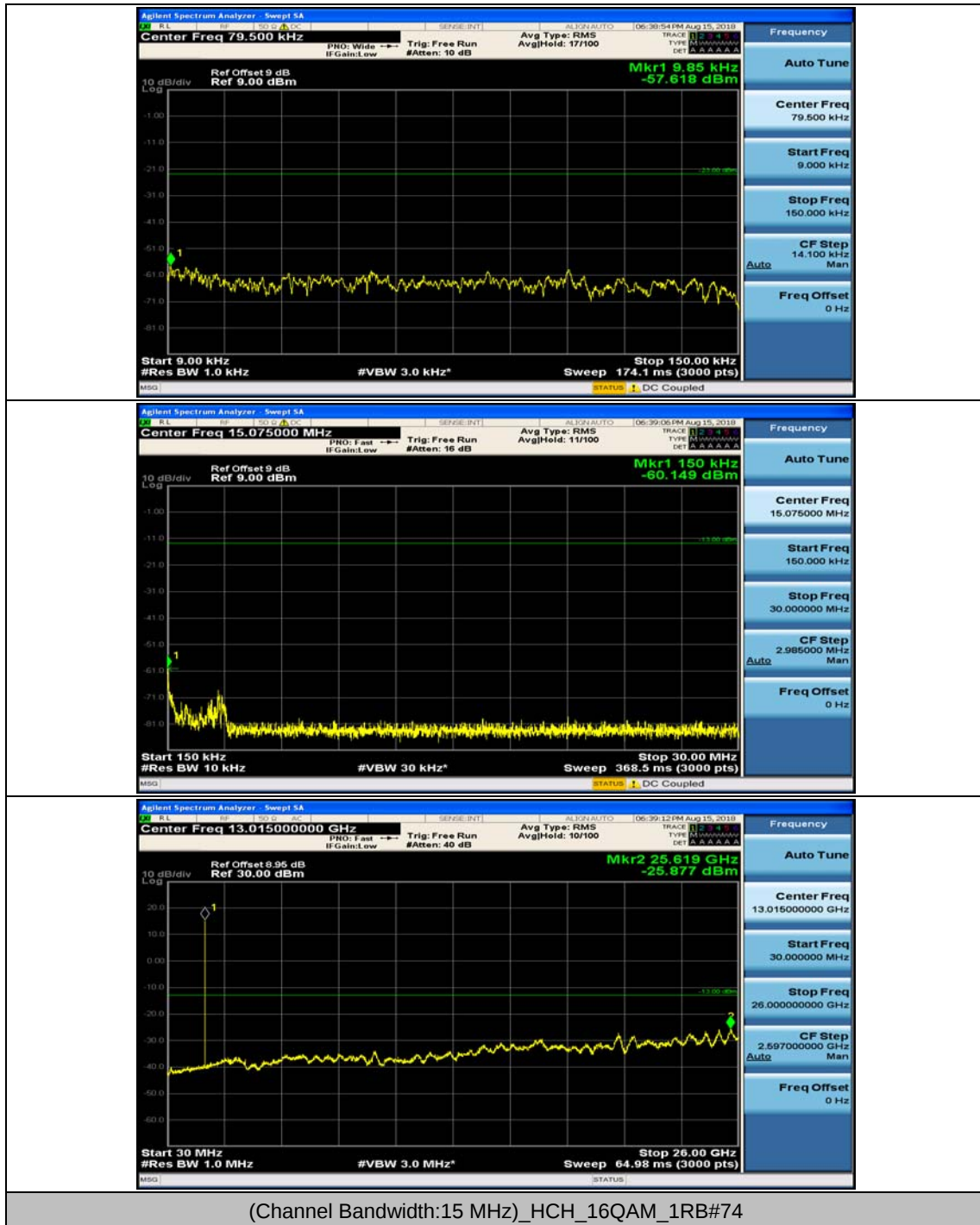


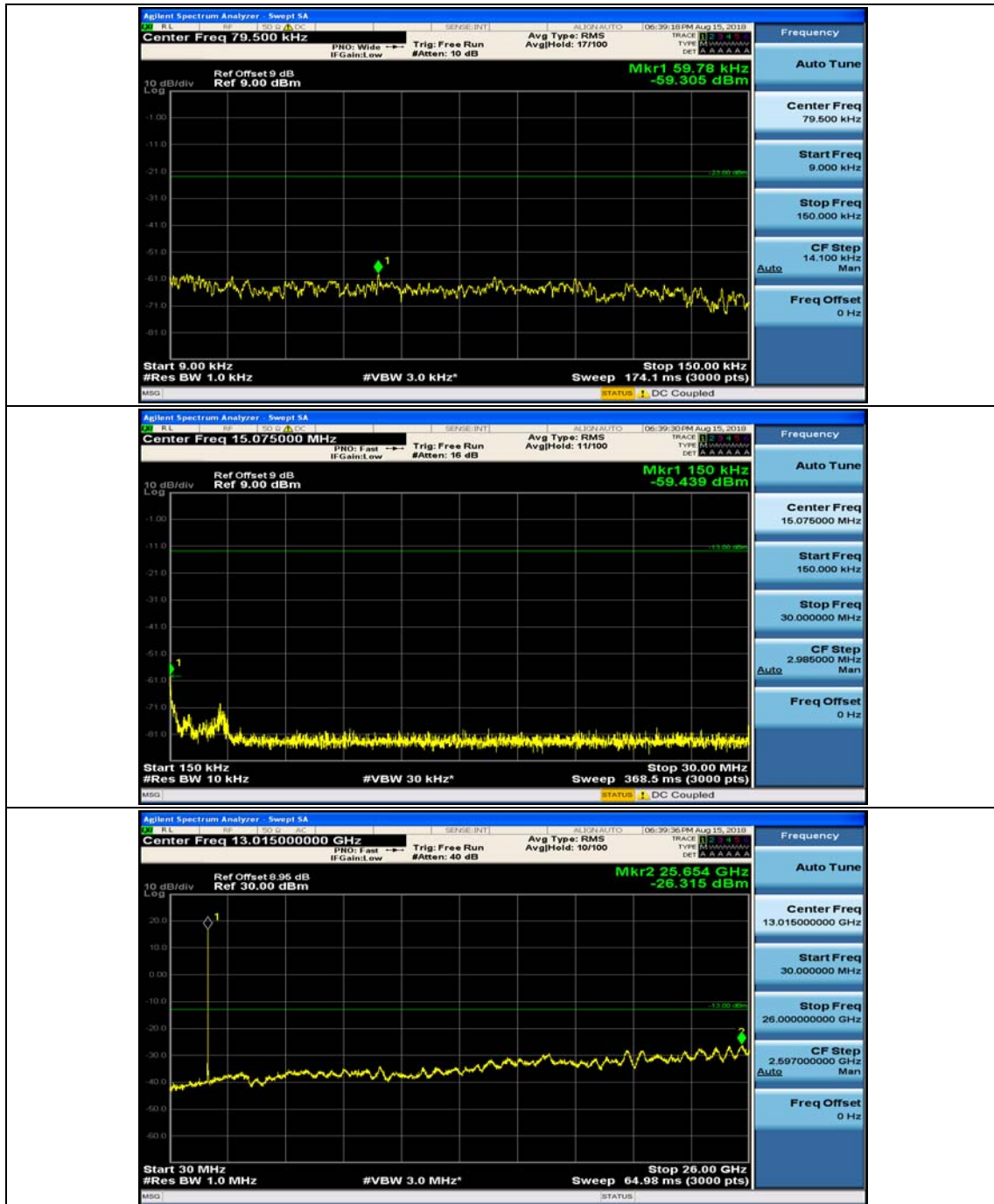


(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#0

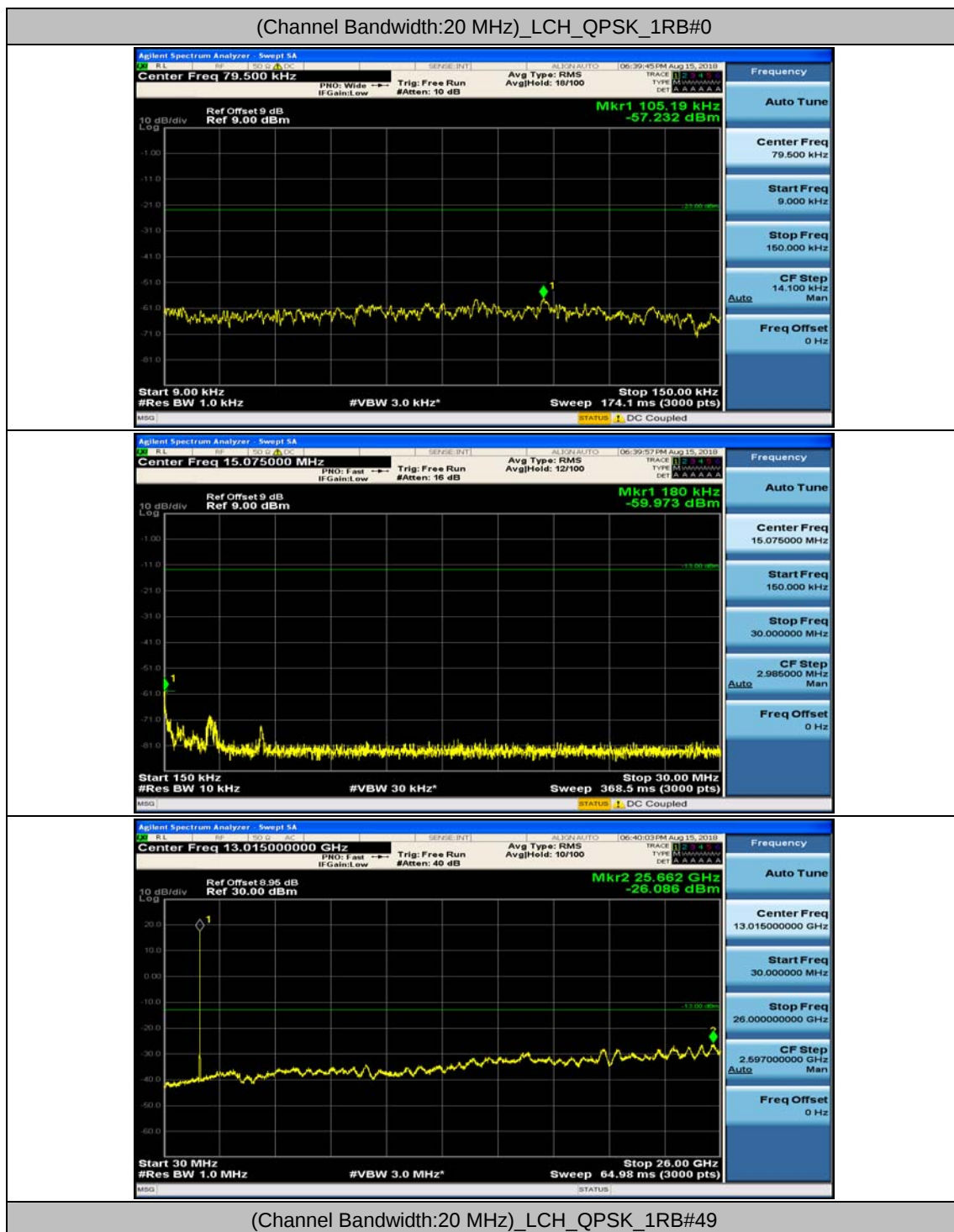


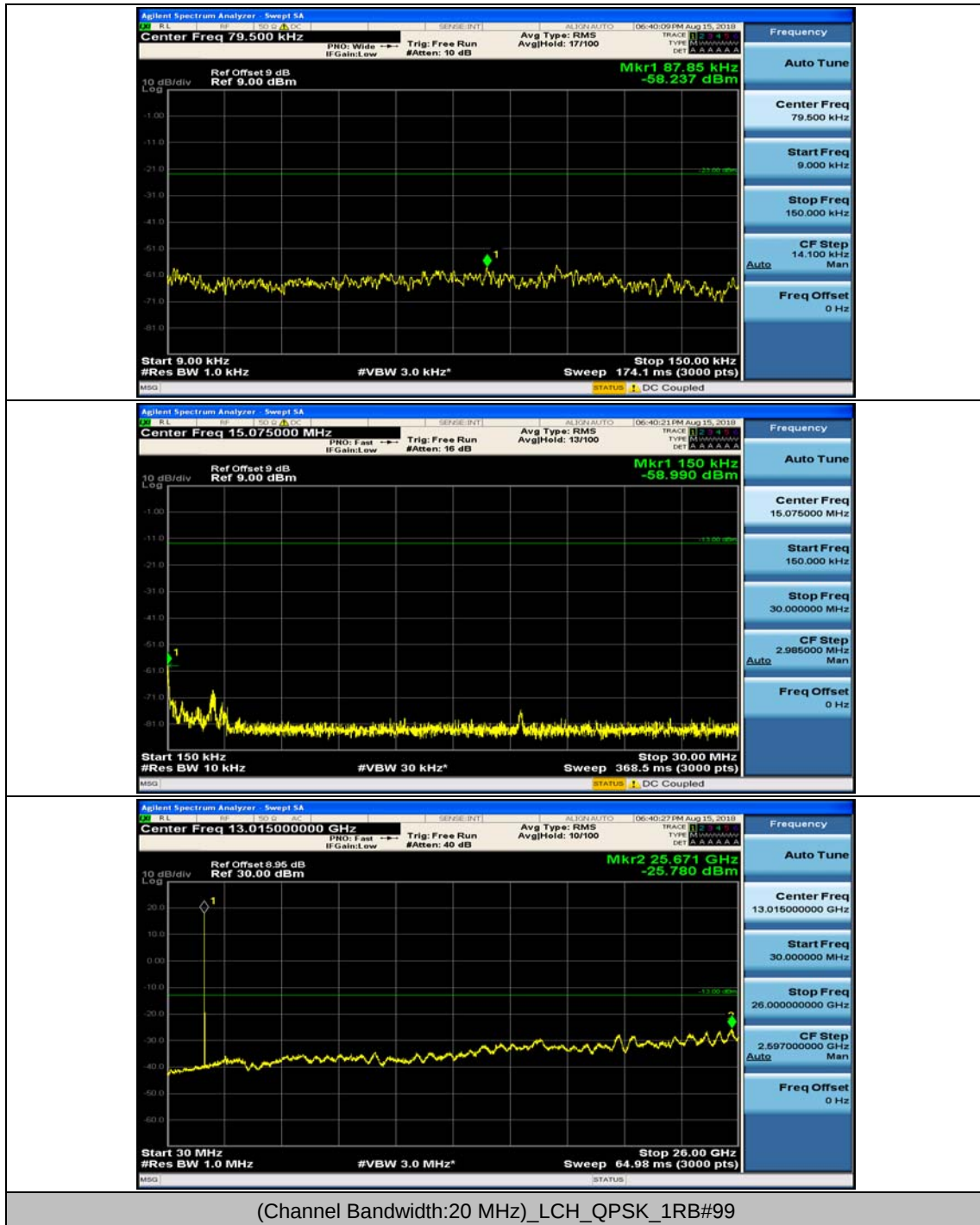
(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#37

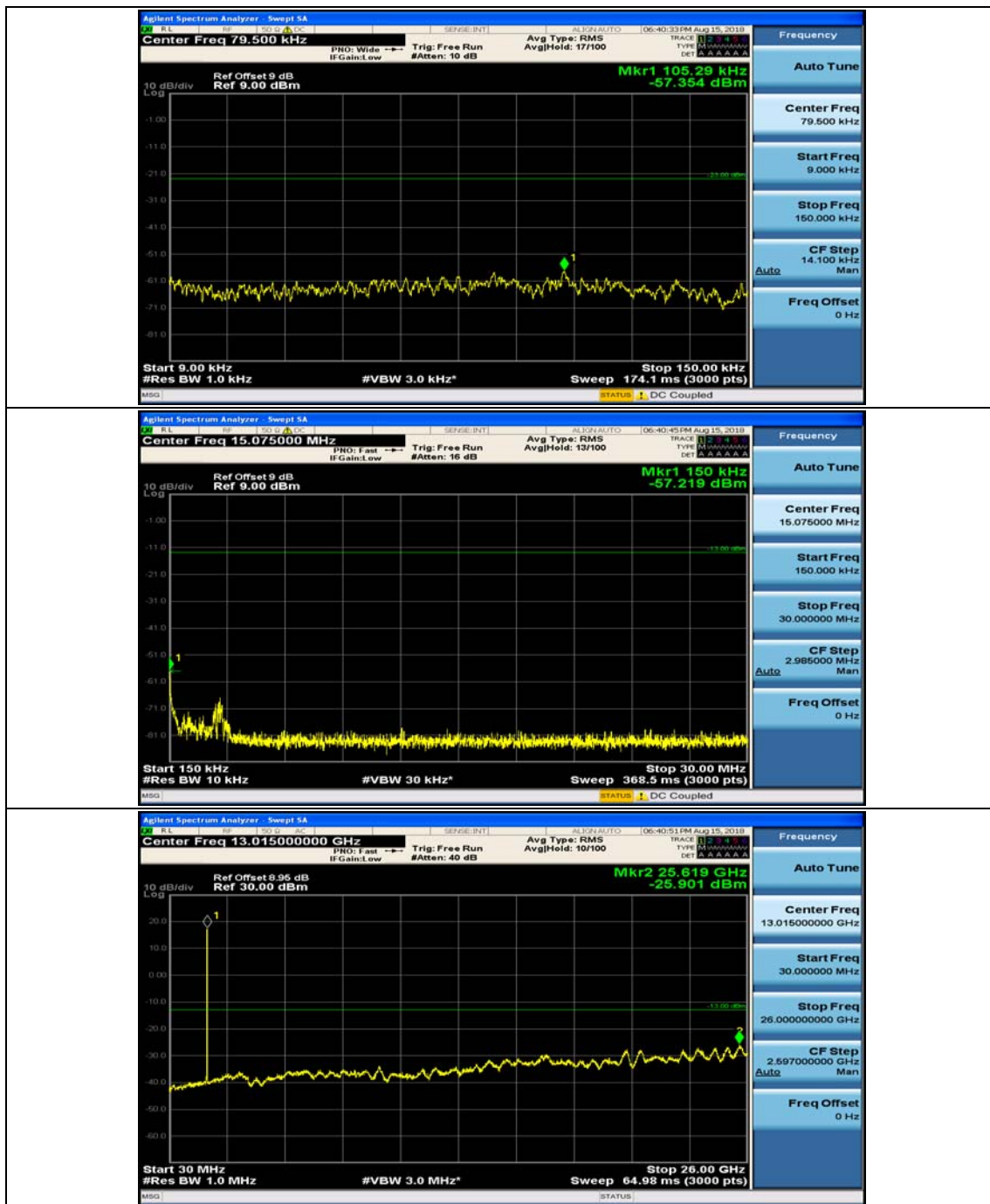




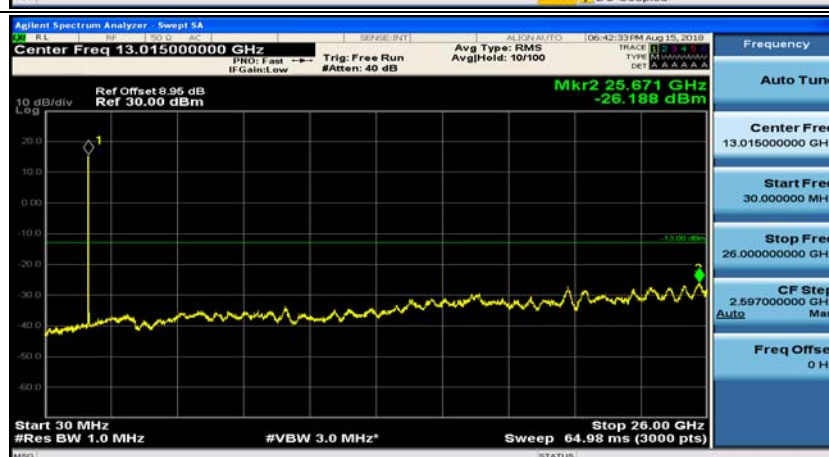
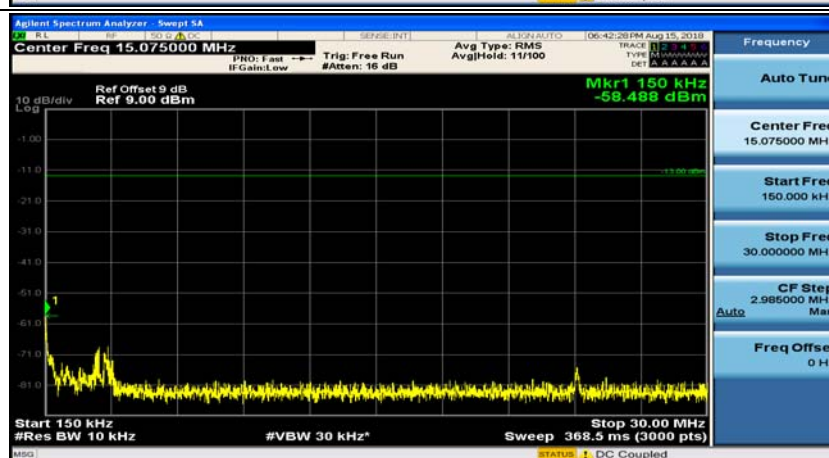
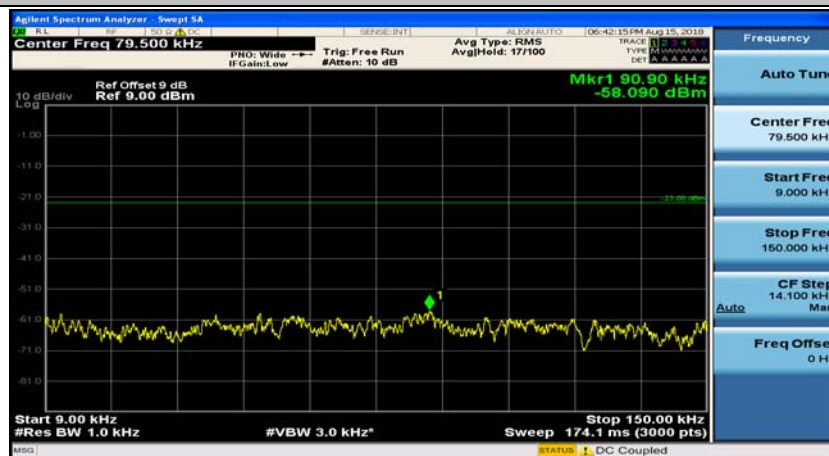
## Channel Bandwidth: 20 MHz



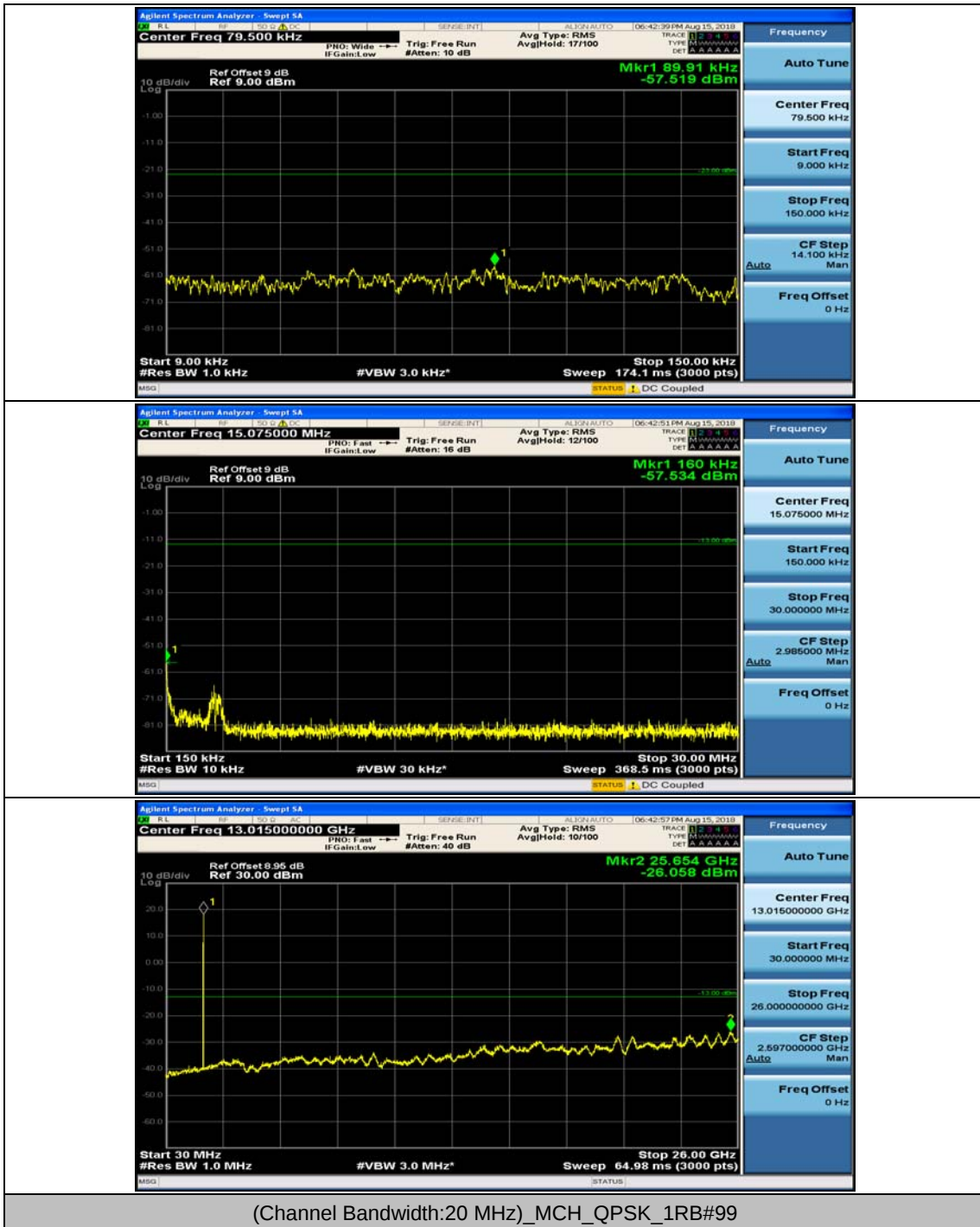


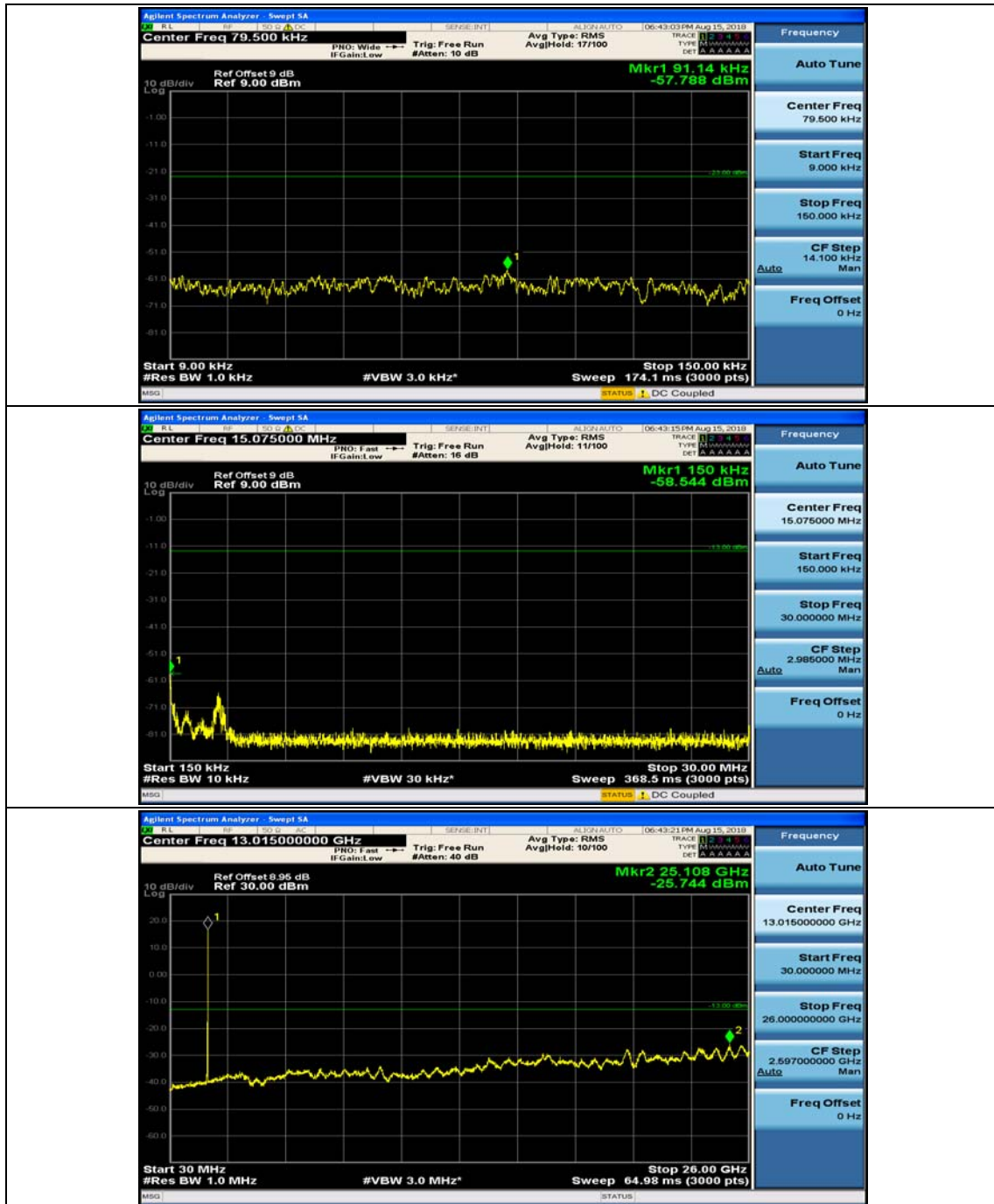


(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#0

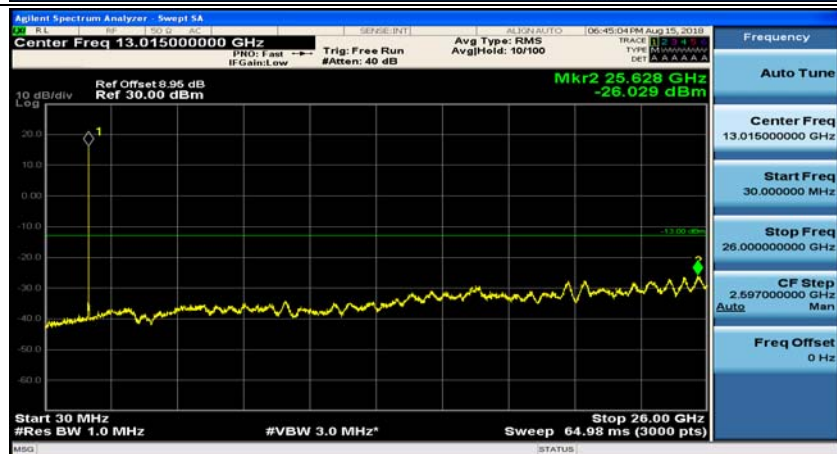
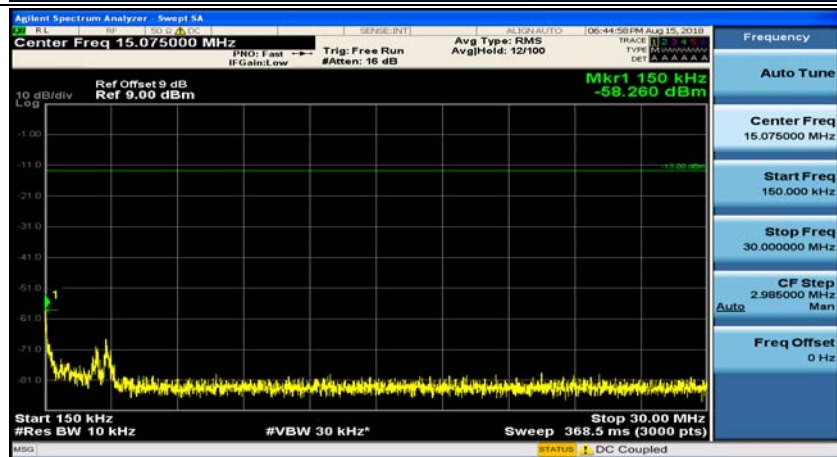
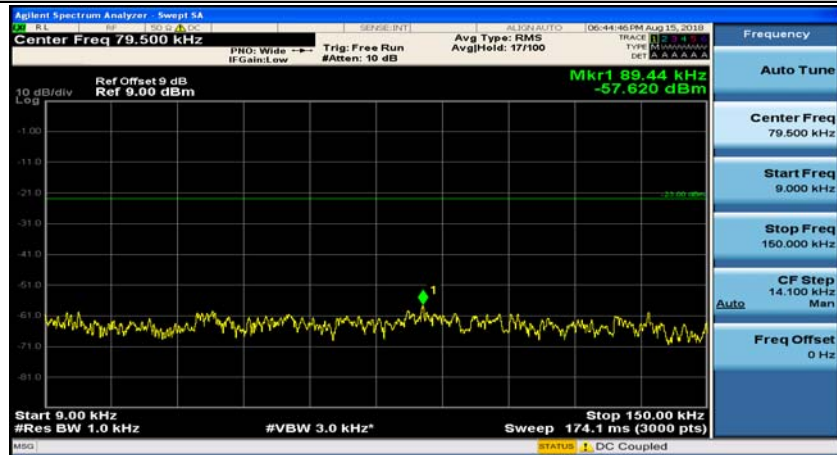


(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#49

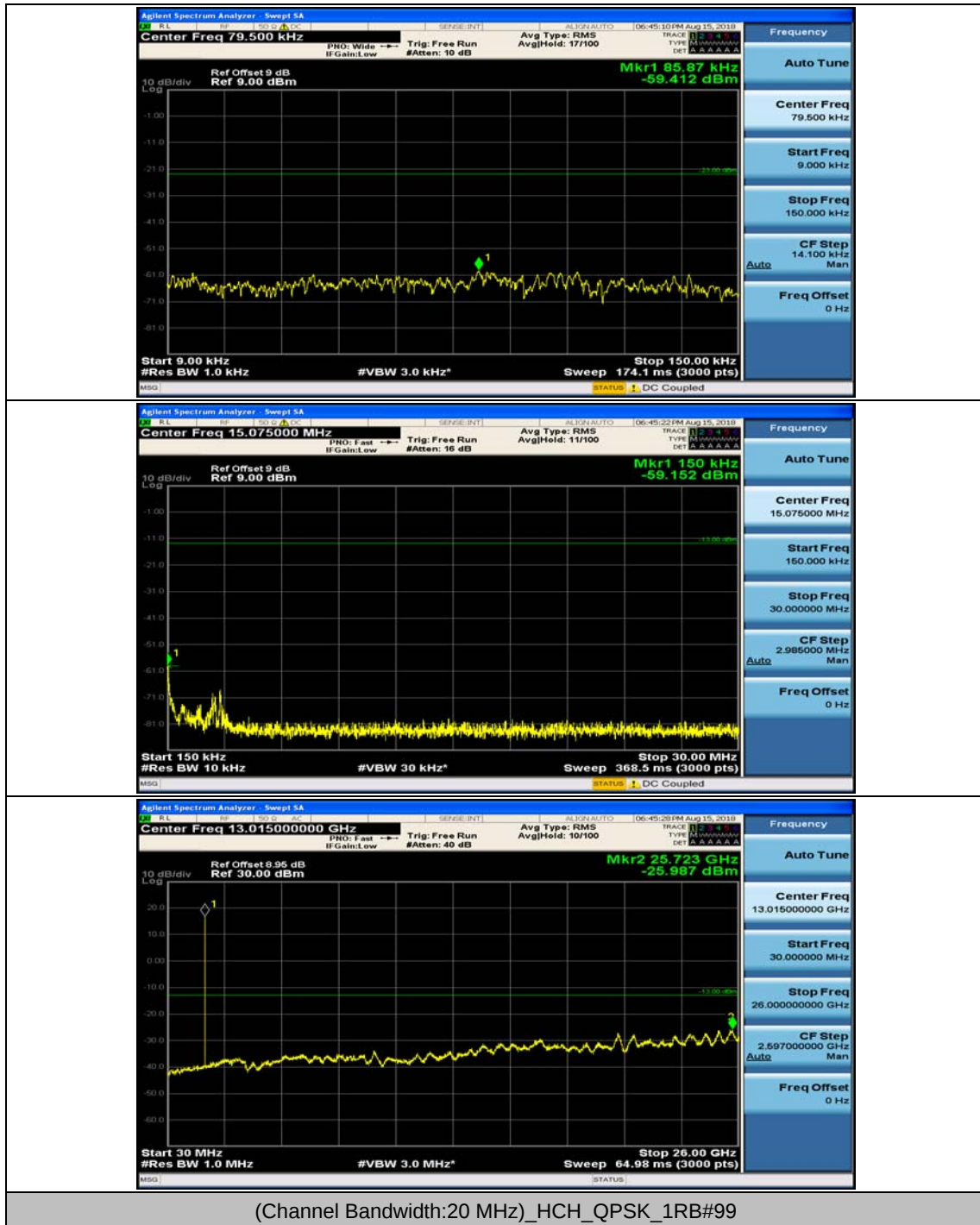


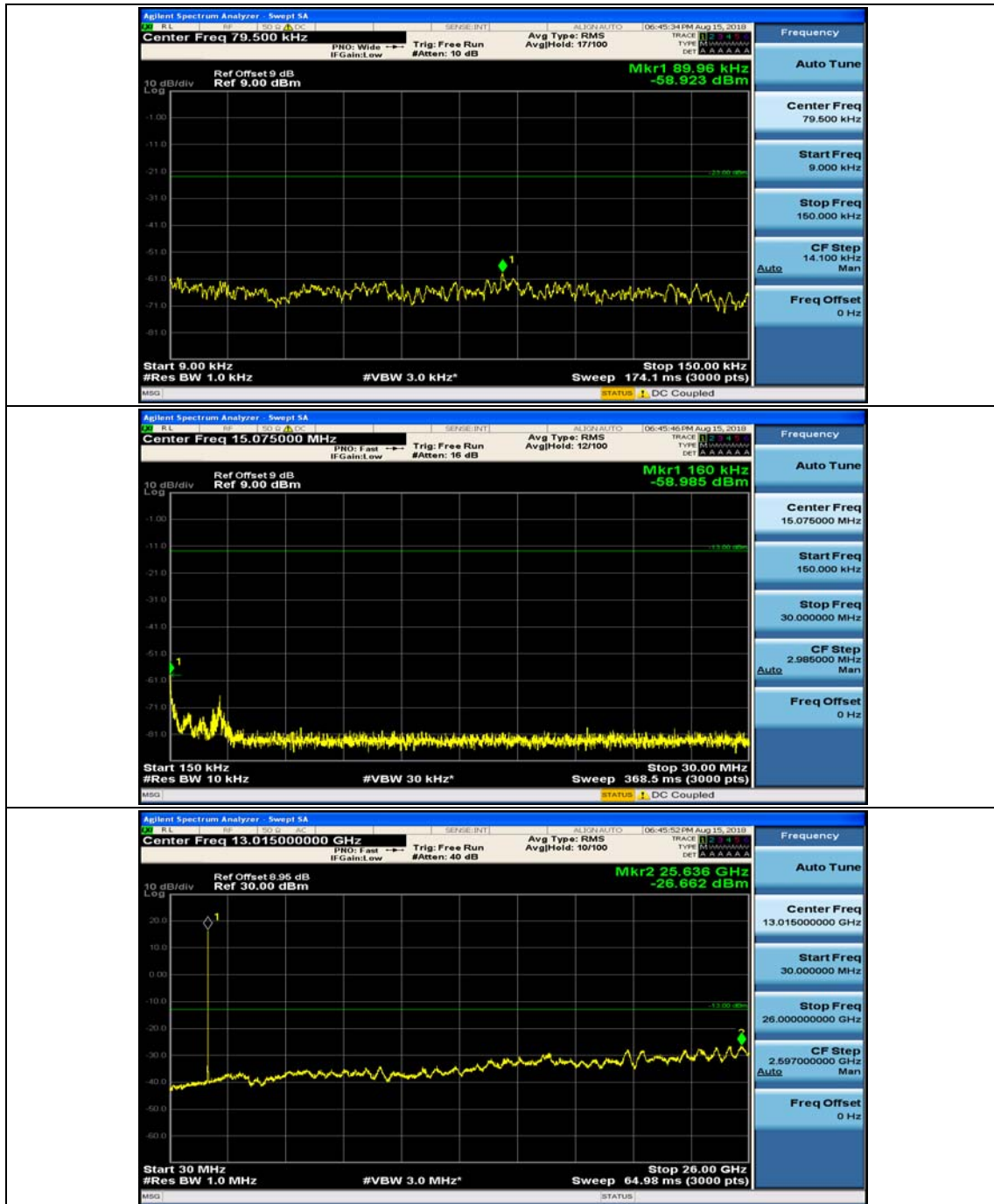


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

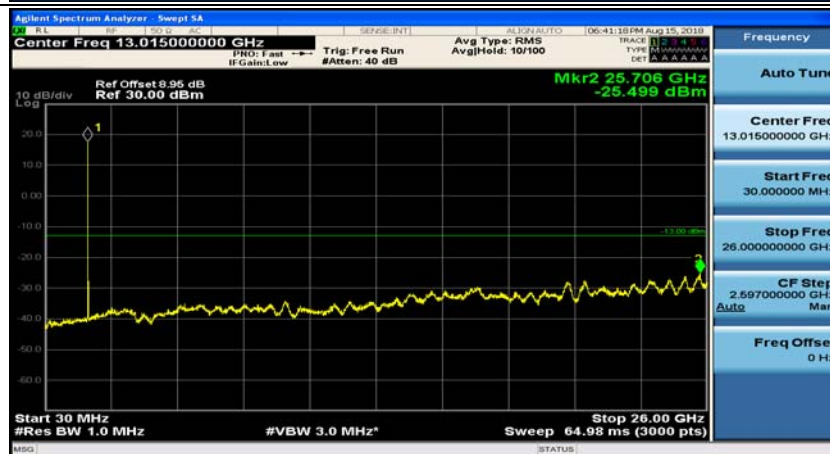
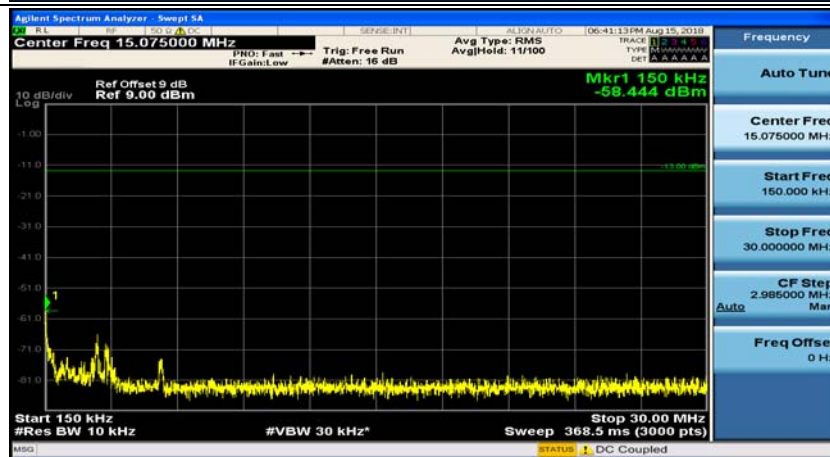
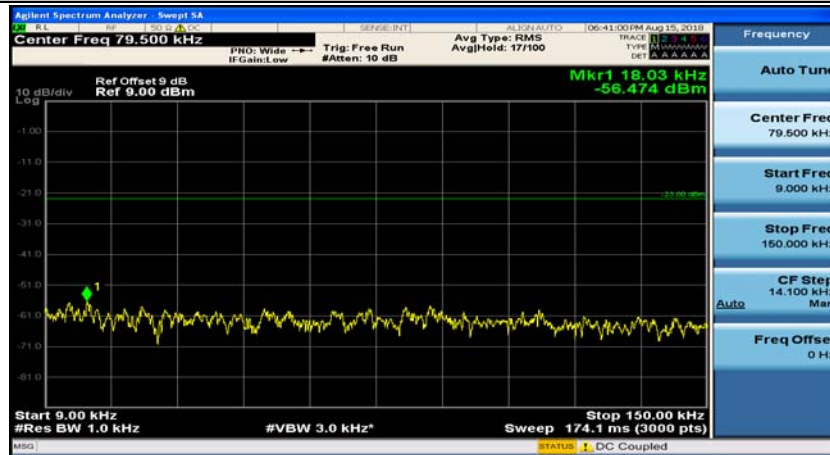


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#49

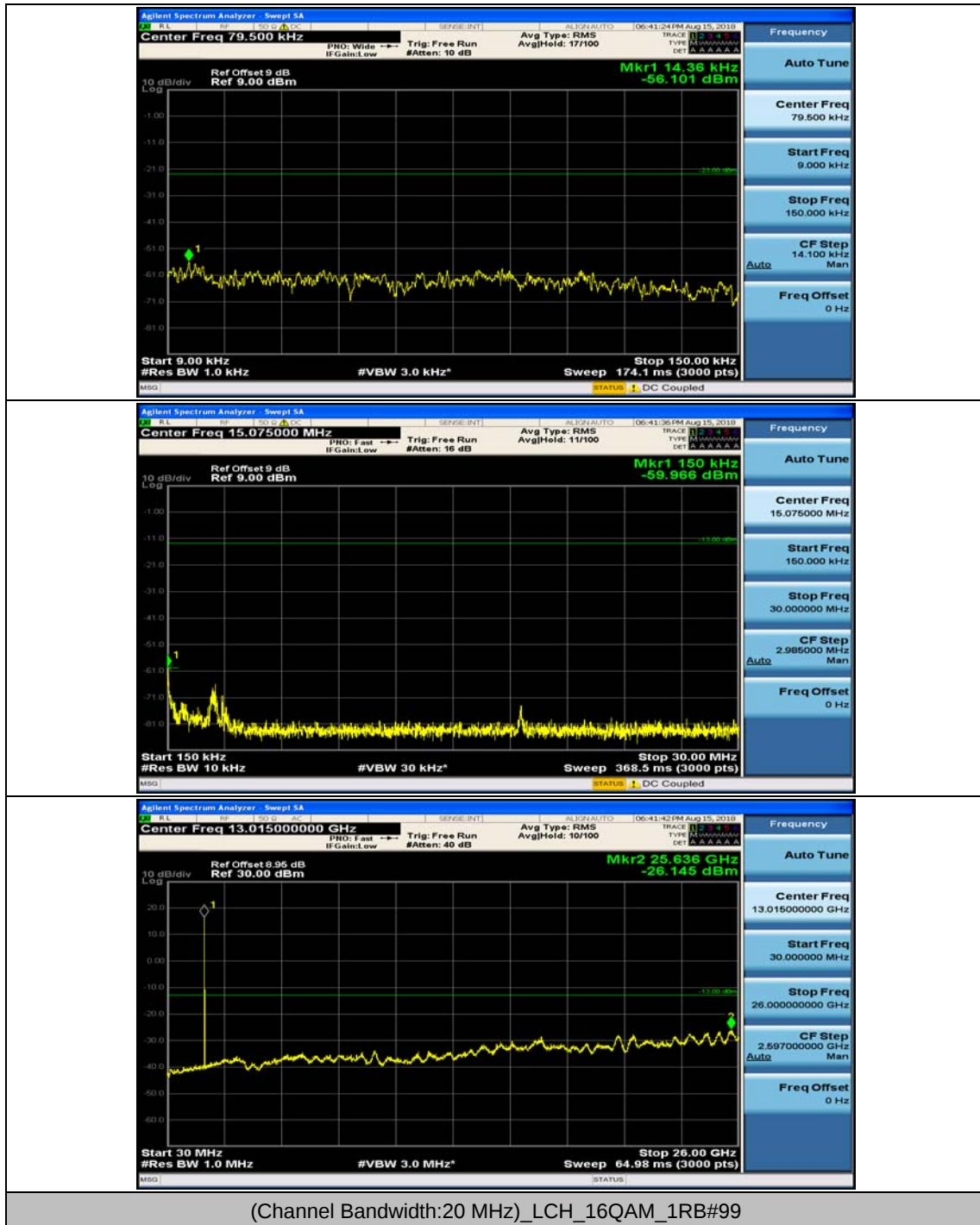


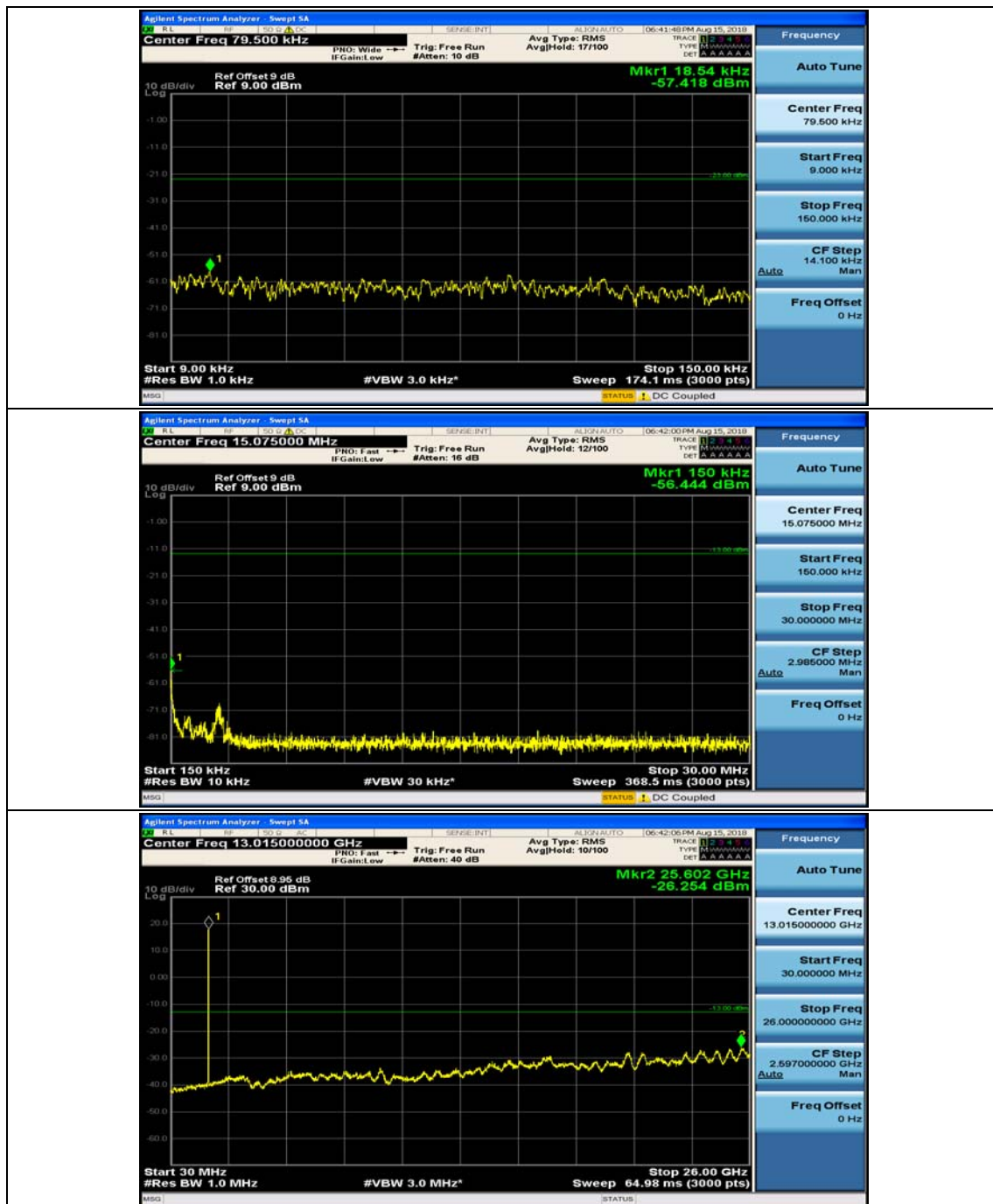


(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0

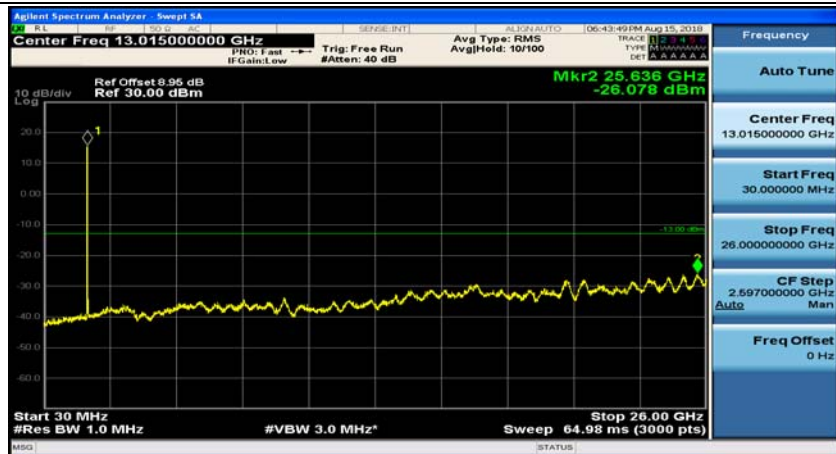
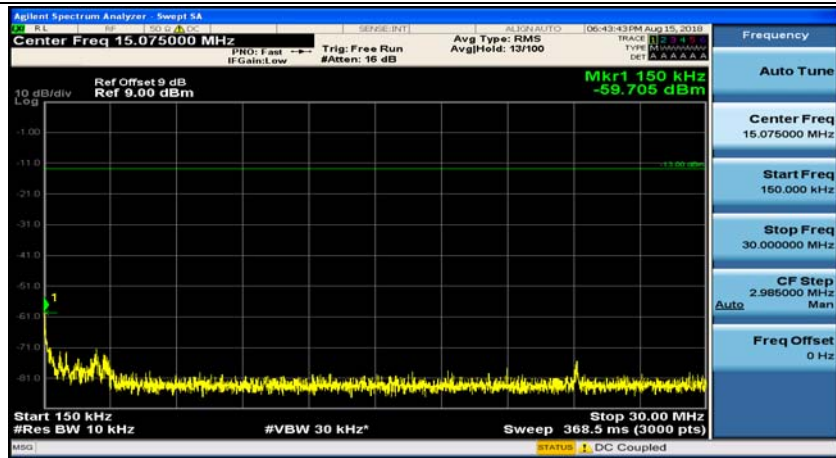


(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#49

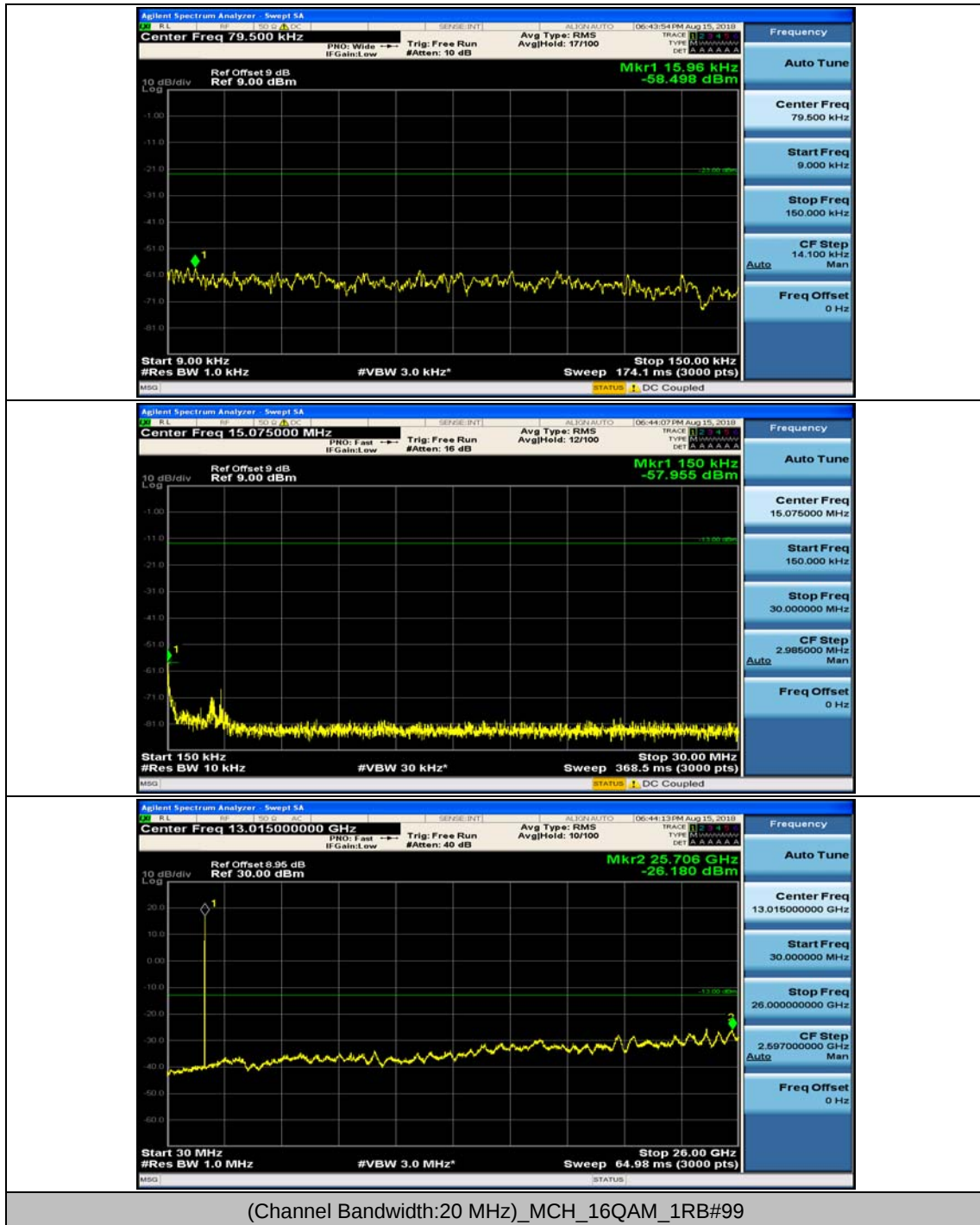


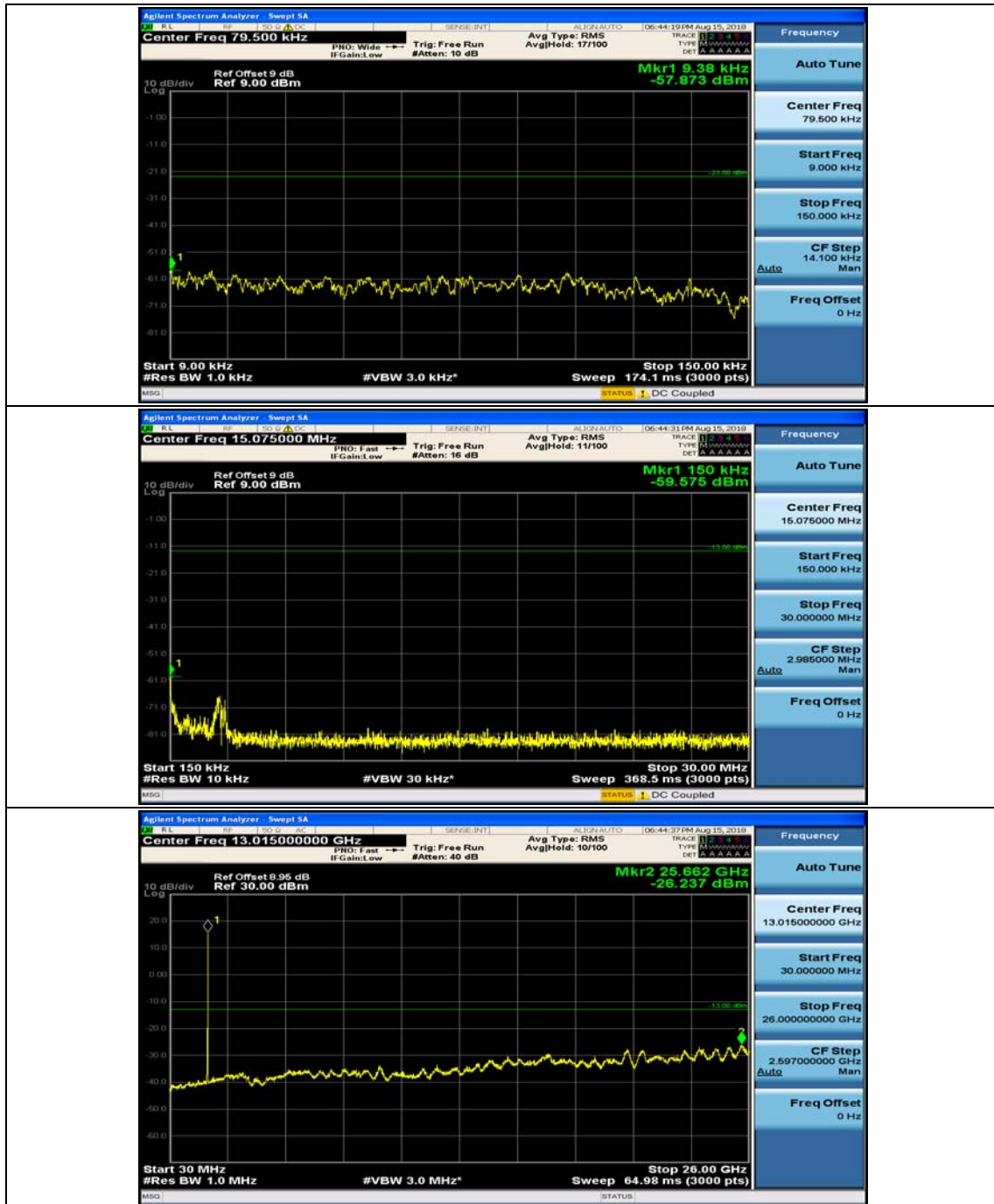


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0

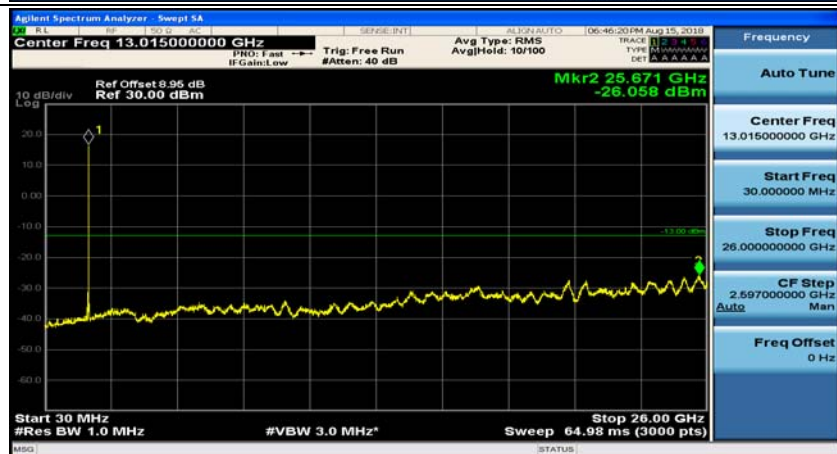
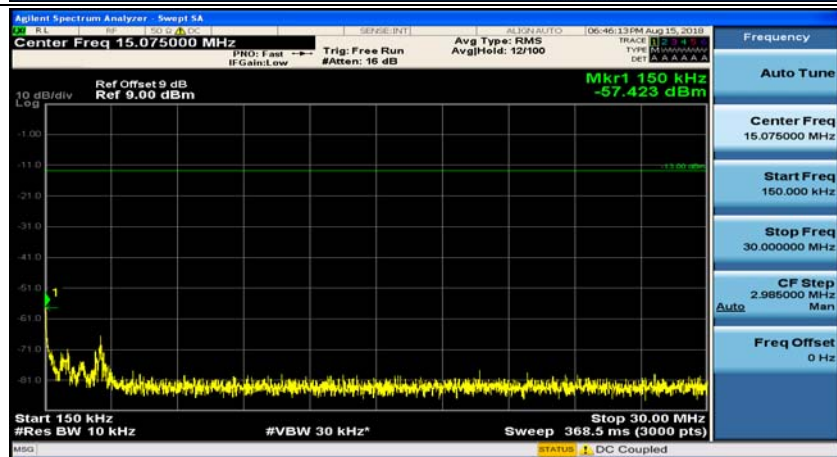
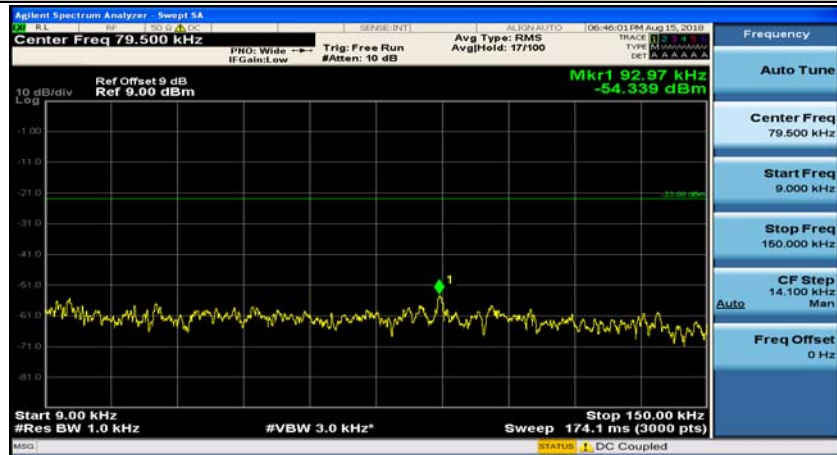


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#49

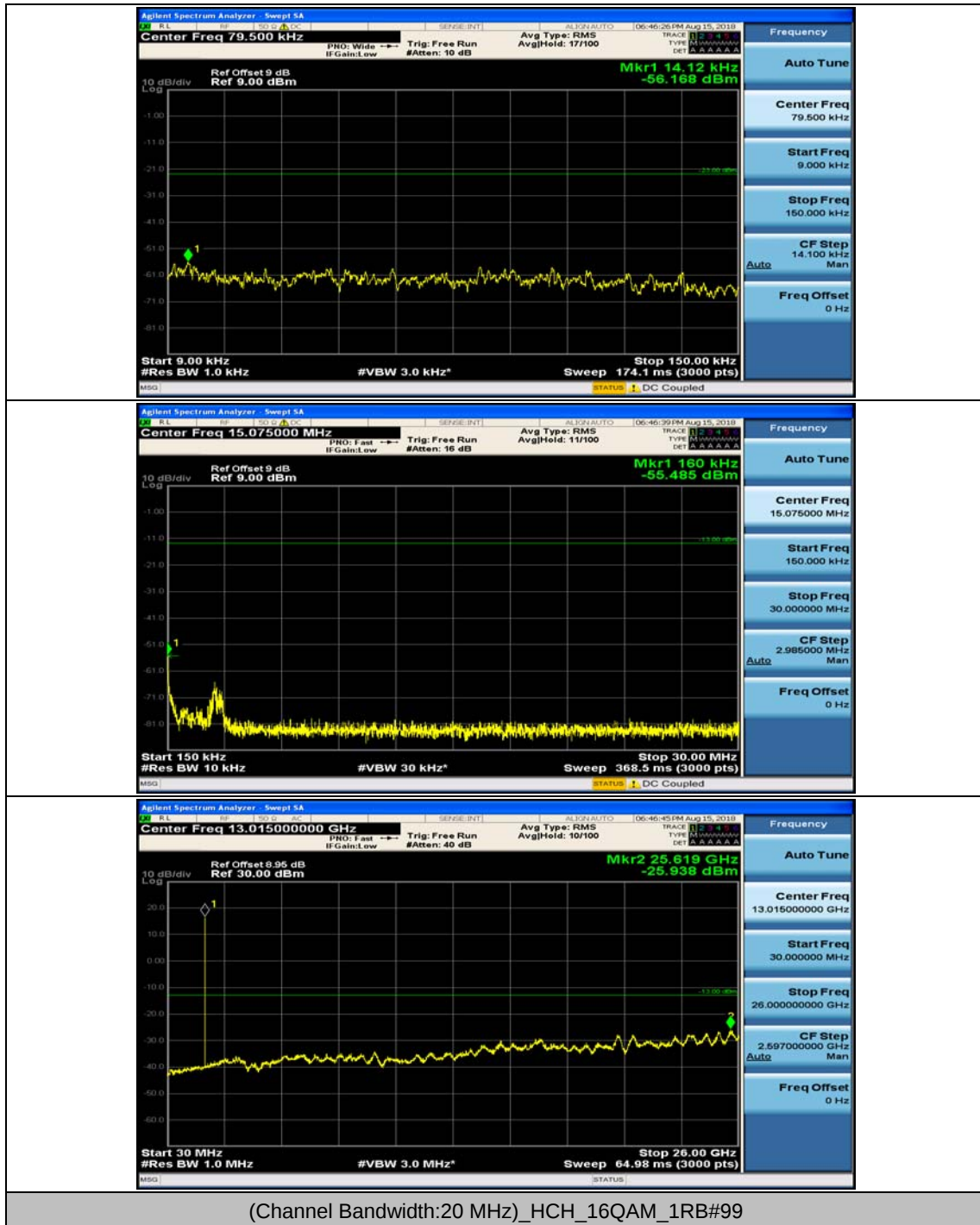


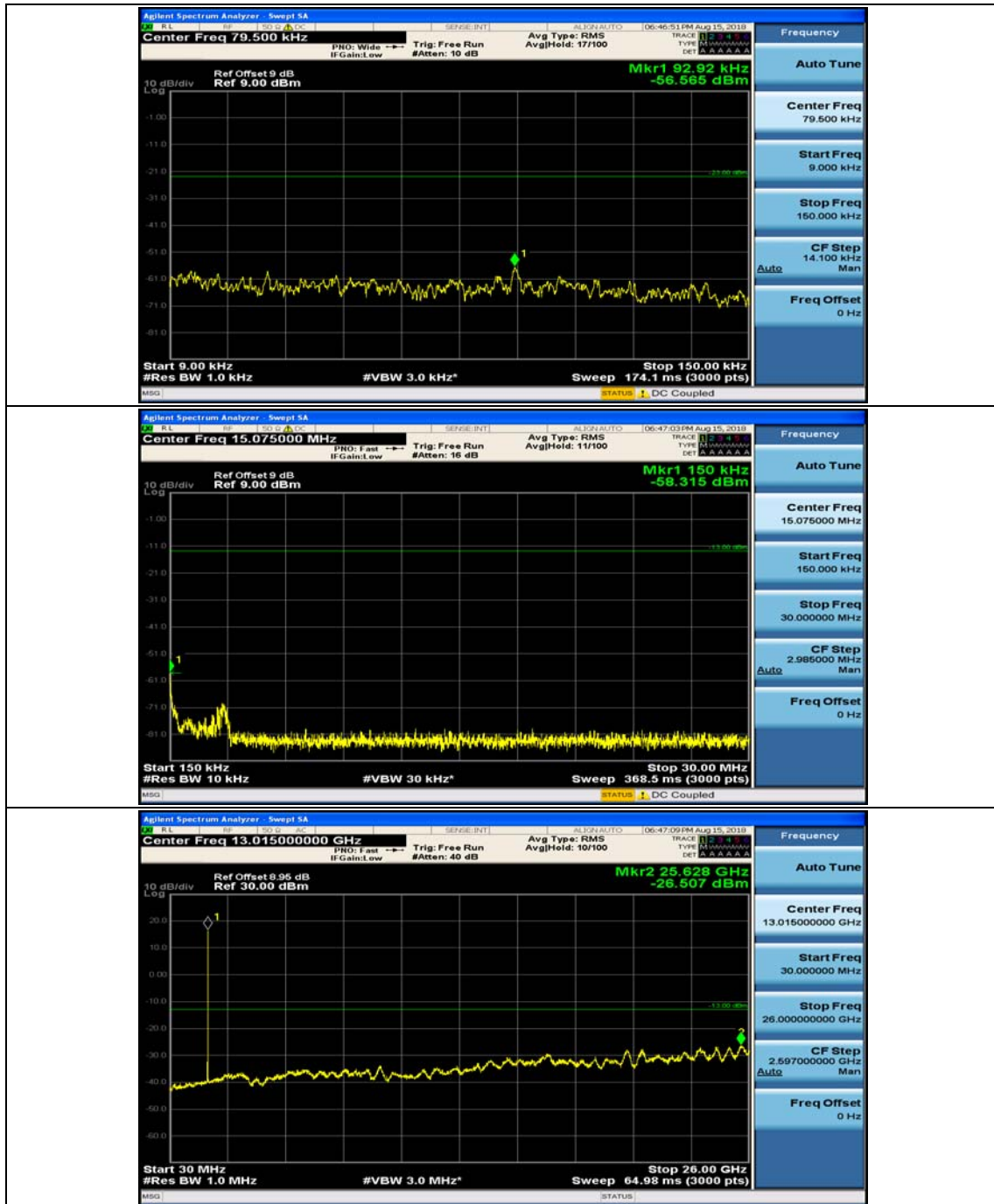


(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#0



(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               | -0.5           | -0.000292       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | -0.95          | -0.000555       | ± 2.5       | PASS    |
|                            |         | VH            | TN               | 4.07           | 0.002379        | ± 2.5       | PASS    |
|                            | MCH     | VL            | TN               | 0.76           | 0.000439        | ± 2.5       | PASS    |
|                            |         | VN            | TN               | 3.59           | 0.002072        | ± 2.5       | PASS    |
|                            |         | VH            | TN               | 3.33           | 0.001922        | ± 2.5       | PASS    |
|                            | HCH     | VL            | TN               | 0.88           | 0.000502        | ± 2.5       | PASS    |
|                            |         | VN            | TN               | 0.05           | 0.000029        | ± 2.5       | PASS    |
|                            |         | VH            | TN               | 3.37           | 0.001921        | ± 2.5       | PASS    |
| 16QAM                      | LCH     | VL            | TN               | -0.26          | -0.000152       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | -0.15          | -0.000088       | ± 2.5       | PASS    |
|                            |         | VH            | TN               | 3.35           | 0.001958        | ± 2.5       | PASS    |
|                            | MCH     | VL            | TN               | -1.3           | -0.000750       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | 0.96           | 0.000554        | ± 2.5       | PASS    |
|                            |         | VH            | TN               | 1.19           | 0.000687        | ± 2.5       | PASS    |
|                            | HCH     | VL            | TN               | -0.09          | -0.000051       | ± 2.5       | PASS    |
|                            |         | VN            | TN               | -1.82          | -0.001037       | ± 2.5       | PASS    |
|                            |         | VH            | TN               | 0.26           | 0.000148        | ± 2.5       | PASS    |
| Temperature                |         |               |                  |                |                 |             |         |
| Modulation                 | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                       | LCH     | VN            | -30              | 4.96           | 0.002899        | ± 2.5       | PASS    |
|                            |         | VN            | -20              | -0.75          | -0.000438       | ± 2.5       | PASS    |
|                            |         | VN            | -10              | -0.22          | -0.000129       | ± 2.5       | PASS    |
|                            |         | VN            | 0                | 1.05           | 0.000614        | ± 2.5       | PASS    |
|                            |         | VN            | 10               | 4.74           | 0.002771        | ± 2.5       | PASS    |
|                            |         | VN            | 20               | 3.33           | 0.001947        | ± 2.5       | PASS    |
|                            |         | VN            | 30               | 0.72           | 0.000421        | ± 2.5       | PASS    |
|                            |         | VN            | 40               | 4.31           | 0.002519        | ± 2.5       | PASS    |
|                            |         | VN            | 50               | 4.61           | 0.002695        | ± 2.5       | PASS    |
|                            | MCH     | VN            | -30              | 0.95           | 0.000548        | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | -20 | 4.47  | 0.002580  | ± 2.5 | PASS |
|       |     | VN | -10 | 2.88  | 0.001662  | ± 2.5 | PASS |
|       |     | VN | 0   | 3.6   | 0.002078  | ± 2.5 | PASS |
|       |     | VN | 10  | 1.79  | 0.001033  | ± 2.5 | PASS |
|       |     | VN | 20  | 0.44  | 0.000254  | ± 2.5 | PASS |
|       |     | VN | 30  | 2.6   | 0.001501  | ± 2.5 | PASS |
|       |     | VN | 40  | 0.88  | 0.000508  | ± 2.5 | PASS |
|       |     | VN | 50  | -1.18 | -0.000681 | ± 2.5 | PASS |
|       | HCH | VN | -30 | 2.55  | 0.001454  | ± 2.5 | PASS |
|       |     | VN | -20 | 1.49  | 0.000849  | ± 2.5 | PASS |
|       |     | VN | -10 | -1.61 | -0.000918 | ± 2.5 | PASS |
|       |     | VN | 0   | -0.83 | -0.000473 | ± 2.5 | PASS |
|       |     | VN | 10  | 0.86  | 0.000490  | ± 2.5 | PASS |
|       |     | VN | 20  | 4.75  | 0.002708  | ± 2.5 | PASS |
|       |     | VN | 30  | -0.92 | -0.000524 | ± 2.5 | PASS |
|       |     | VN | 40  | 3.63  | 0.002069  | ± 2.5 | PASS |
|       |     | VN | 50  | 1.53  | 0.000872  | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 1.86  | 0.001087  | ± 2.5 | PASS |
|       |     | VN | -20 | -0.64 | -0.000374 | ± 2.5 | PASS |
|       |     | VN | -10 | 2.02  | 0.001181  | ± 2.5 | PASS |
|       |     | VN | 0   | -0.57 | -0.000333 | ± 2.5 | PASS |
|       |     | VN | 10  | 3.47  | 0.002028  | ± 2.5 | PASS |
|       |     | VN | 20  | 2.07  | 0.001210  | ± 2.5 | PASS |
|       |     | VN | 30  | 3.17  | 0.001853  | ± 2.5 | PASS |
|       |     | VN | 40  | 1.86  | 0.001087  | ± 2.5 | PASS |
|       |     | VN | 50  | -0.15 | -0.000088 | ± 2.5 | PASS |
|       | MCH | VN | -30 | 2.16  | 0.001231  | ± 2.5 | PASS |
|       |     | VN | -20 | 2.18  | 0.001243  | ± 2.5 | PASS |
|       |     | VN | -10 | 0.52  | 0.000296  | ± 2.5 | PASS |
|       |     | VN | 0   | -0.44 | -0.000251 | ± 2.5 | PASS |
|       |     | VN | 10  | 3.03  | 0.001727  | ± 2.5 | PASS |
|       |     | VN | 20  | -0.23 | -0.000131 | ± 2.5 | PASS |
|       |     | VN | 30  | 2.73  | 0.001556  | ± 2.5 | PASS |
|       |     | VN | 40  | 0.93  | 0.000530  | ± 2.5 | PASS |
|       |     | VN | 50  | 2.82  | 0.001607  | ± 2.5 | PASS |
|       | HCH | VN | -30 | -0.62 | -0.000353 | ± 2.5 | PASS |
|       |     | VN | -20 | 4     | 0.002280  | ± 2.5 | PASS |
|       |     | VN | -10 | 1.25  | 0.000713  | ± 2.5 | PASS |
|       |     | VN | 0   | 0.17  | 0.000097  | ± 2.5 | PASS |
|       |     | VN | 10  | 1.53  | 0.000872  | ± 2.5 | PASS |
|       |     | VN | 20  | 3.53  | 0.002012  | ± 2.5 | PASS |

|  |  |    |    |       |           |       |      |
|--|--|----|----|-------|-----------|-------|------|
|  |  | VN | 30 | 4.12  | 0.002349  | ± 2.5 | PASS |
|  |  | VN | 40 | -1.89 | -0.001077 | ± 2.5 | PASS |
|  |  | VN | 50 | -1.18 | -0.000673 | ± 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               | 1.77           | 0.001034        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 4.98           | 0.002910        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 2.56           | 0.001496        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 4.24           | 0.002447        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.74          | -0.001004       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 3.66           | 0.002113        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | -1.09          | -0.000622       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -0.49          | -0.000279       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 1.8            | 0.001027        | ± 2.5       | PASS    |
| 16QAM                     | LCH     | VL            | TN               | 4.17           | 0.002436        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 3.12           | 0.001823        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -1.2           | -0.000701       | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 4.84           | 0.002794        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 1.47           | 0.000848        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.98           | 0.002874        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 3.05           | 0.001739        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 1.82           | 0.001038        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.27           | 0.002435        | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VN            | -30              | -0.6           | -0.000351       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | -1.55          | -0.000906       | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -0.95          | -0.000555       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 2.38           | 0.001391        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | -1.4           | -0.000818       | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 1.39           | 0.000812        | ± 2.5       | PASS    |
|                           |         | VN            | 30               | -0.18          | -0.000105       | ± 2.5       | PASS    |
|                           |         | VN            | 40               | 4.22           | 0.002466        | ± 2.5       | PASS    |
|                           |         | VN            | 50               | 1.12           | 0.000654        | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | 4.92           | 0.002840        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 3.67           | 0.002118        | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | -10 | 3.21  | 0.001853  | ± 2.5 | PASS |
|       |     | VN | 0   | 3.86  | 0.002228  | ± 2.5 | PASS |
|       |     | VN | 10  | 1.16  | 0.000670  | ± 2.5 | PASS |
|       |     | VN | 20  | 1.44  | 0.000831  | ± 2.5 | PASS |
|       |     | VN | 30  | 2.59  | 0.001495  | ± 2.5 | PASS |
|       |     | VN | 40  | -1.06 | -0.000612 | ± 2.5 | PASS |
|       |     | VN | 50  | 4.32  | 0.002494  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 3.98  | 0.002270  | ± 2.5 | PASS |
|       |     | VN | -20 | 0.98  | 0.000559  | ± 2.5 | PASS |
|       |     | VN | -10 | 2.25  | 0.001283  | ± 2.5 | PASS |
|       |     | VN | 0   | 1.28  | 0.000730  | ± 2.5 | PASS |
|       |     | VN | 10  | -0.13 | -0.000074 | ± 2.5 | PASS |
|       |     | VN | 20  | -0.09 | -0.000051 | ± 2.5 | PASS |
|       |     | VN | 30  | -0.66 | -0.000376 | ± 2.5 | PASS |
|       |     | VN | 40  | 2.61  | 0.001488  | ± 2.5 | PASS |
|       |     | VN | 50  | 4.92  | 0.002806  | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 2.21  | 0.001276  | ± 2.5 | PASS |
|       |     | VN | -20 | -1.75 | -0.001010 | ± 2.5 | PASS |
|       |     | VN | -10 | -0.04 | -0.000023 | ± 2.5 | PASS |
|       |     | VN | 0   | 3.4   | 0.001962  | ± 2.5 | PASS |
|       |     | VN | 10  | 1.05  | 0.000606  | ± 2.5 | PASS |
|       |     | VN | 20  | -1.54 | -0.000889 | ± 2.5 | PASS |
|       |     | VN | 30  | -0.66 | -0.000381 | ± 2.5 | PASS |
|       |     | VN | 40  | 4.09  | 0.002361  | ± 2.5 | PASS |
|       |     | VN | 50  | 2.02  | 0.001166  | ± 2.5 | PASS |
|       | MCH | VN | -30 | 4.87  | 0.002777  | ± 2.5 | PASS |
|       |     | VN | -20 | 4.36  | 0.002486  | ± 2.5 | PASS |
|       |     | VN | -10 | 1.78  | 0.001015  | ± 2.5 | PASS |
|       |     | VN | 0   | -1.9  | -0.001084 | ± 2.5 | PASS |
|       |     | VN | 10  | -1.7  | -0.000969 | ± 2.5 | PASS |
|       |     | VN | 20  | 3.91  | 0.002230  | ± 2.5 | PASS |
|       |     | VN | 30  | 1.29  | 0.000736  | ± 2.5 | PASS |
|       |     | VN | 40  | 1.19  | 0.000679  | ± 2.5 | PASS |
|       |     | VN | 50  | 1.17  | 0.000667  | ± 2.5 | PASS |
|       | HCH | VN | -30 | -1.61 | -0.000918 | ± 2.5 | PASS |
|       |     | VN | -20 | 2.48  | 0.001414  | ± 2.5 | PASS |
|       |     | VN | -10 | -0.13 | -0.000074 | ± 2.5 | PASS |
|       |     | VN | 0   | -0.2  | -0.000114 | ± 2.5 | PASS |
|       |     | VN | 10  | -0.86 | -0.000490 | ± 2.5 | PASS |
|       |     | VN | 20  | 3.39  | 0.001933  | ± 2.5 | PASS |
|       |     | VN | 30  | 3.53  | 0.002013  | ± 2.5 | PASS |

|  |  |    |    |       |           |       |      |
|--|--|----|----|-------|-----------|-------|------|
|  |  | VN | 40 | 3.43  | 0.001956  | ± 2.5 | PASS |
|  |  | VN | 50 | -0.07 | -0.000040 | ± 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               | -0.66          | -0.000385       | ± 2.5       | PASS    |
|                          |         | VN            | TN               | -0.83          | -0.000485       | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 2.89           | 0.001688        | ± 2.5       | PASS    |
|                          | MCH     | VL            | TN               | 2.22           | 0.001281        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | 2.63           | 0.001518        | ± 2.5       | PASS    |
|                          |         | VH            | TN               | -0.31          | -0.000179       | ± 2.5       | PASS    |
|                          | HCH     | VL            | TN               | 2.72           | 0.001552        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | -0.27          | -0.000154       | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 4.09           | 0.002334        | ± 2.5       | PASS    |
| 16QAM                    | LCH     | VL            | TN               | 0.29           | 0.000169        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | 3.39           | 0.001980        | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 4.22           | 0.002464        | ± 2.5       | PASS    |
|                          | MCH     | VL            | TN               | 3.4            | 0.001962        | ± 2.5       | PASS    |
|                          |         | VN            | TN               | -0.99          | -0.000571       | ± 2.5       | PASS    |
|                          |         | VH            | TN               | 1.63           | 0.000941        | ± 2.5       | PASS    |
|                          | HCH     | VL            | TN               | -1.93          | -0.001101       | ± 2.5       | PASS    |
|                          |         | VN            | TN               | -0.33          | -0.000188       | ± 2.5       | PASS    |
|                          |         | VH            | TN               | -1.34          | -0.000765       | ± 2.5       | PASS    |
| Temperature              |         |               |                  |                |                 |             |         |
| Modulation               | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                     | LCH     | VN            | -30              | 0.18           | 0.000105        | ± 2.5       | PASS    |
|                          |         | VN            | -20              | 2.09           | 0.001220        | ± 2.5       | PASS    |
|                          |         | VN            | -10              | 0.5            | 0.000292        | ± 2.5       | PASS    |
|                          |         | VN            | 0                | -0.87          | -0.000508       | ± 2.5       | PASS    |
|                          |         | VN            | 10               | 1.14           | 0.000666        | ± 2.5       | PASS    |
|                          |         | VN            | 20               | 0.46           | 0.000269        | ± 2.5       | PASS    |
|                          |         | VN            | 30               | 3.31           | 0.001933        | ± 2.5       | PASS    |
|                          |         | VN            | 40               | 2.39           | 0.001396        | ± 2.5       | PASS    |
|                          |         | VN            | 50               | 0.62           | 0.000362        | ± 2.5       | PASS    |
|                          | MCH     | VN            | -30              | 0.53           | 0.000306        | ± 2.5       | PASS    |
|                          |         | VN            | -20              | -0.95          | -0.000548       | ± 2.5       | PASS    |
|                          |         | VN            | -10              | 0.08           | 0.000046        | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | 0   | -0.31 | -0.000179 | ± 2.5 | PASS |
|       |     | VN | 10  | -1.65 | -0.000952 | ± 2.5 | PASS |
|       |     | VN | 20  | 4.82  | 0.002782  | ± 2.5 | PASS |
|       |     | VN | 30  | 4.21  | 0.002430  | ± 2.5 | PASS |
|       |     | VN | 40  | 2.55  | 0.001472  | ± 2.5 | PASS |
|       |     | VN | 50  | -0.53 | -0.000306 | ± 2.5 | PASS |
|       | HCH | VN | -30 | 4.48  | 0.002556  | ± 2.5 | PASS |
|       |     | VN | -20 | -0.16 | -0.000084 | ± 2.5 | PASS |
|       |     | VN | -10 | -0.82 | -0.000430 | ± 2.5 | PASS |
|       |     | VN | 0   | -1.44 | -0.000755 | ± 2.5 | PASS |
|       |     | VN | 10  | 0.9   | 0.000472  | ± 2.5 | PASS |
|       |     | VN | 20  | 3.81  | 0.001997  | ± 2.5 | PASS |
|       |     | VN | 30  | 4.79  | 0.002511  | ± 2.5 | PASS |
|       |     | VN | 40  | 4.62  | 0.002422  | ± 2.5 | PASS |
|       |     | VN | 50  | -1.09 | -0.000571 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | 1.1   | 0.000635  | ± 2.5 | PASS |
|       |     | VN | -20 | 2.65  | 0.001530  | ± 2.5 | PASS |
|       |     | VN | -10 | 4.48  | 0.002586  | ± 2.5 | PASS |
|       |     | VN | 0   | -0.08 | -0.000046 | ± 2.5 | PASS |
|       |     | VN | 10  | 3.45  | 0.001991  | ± 2.5 | PASS |
|       |     | VN | 20  | 0.82  | 0.000473  | ± 2.5 | PASS |
|       |     | VN | 30  | 2.61  | 0.001506  | ± 2.5 | PASS |
|       |     | VN | 40  | -1.92 | -0.001108 | ± 2.5 | PASS |
|       |     | VN | 50  | 4.09  | 0.002361  | ± 2.5 | PASS |
|       | MCH | VN | -30 | 4.95  | 0.002825  | ± 2.5 | PASS |
|       |     | VN | -20 | 0.68  | 0.000388  | ± 2.5 | PASS |
|       |     | VN | -10 | -0.38 | -0.000217 | ± 2.5 | PASS |
|       |     | VN | 0   | -0.15 | -0.000086 | ± 2.5 | PASS |
|       |     | VN | 10  | -0.14 | -0.000080 | ± 2.5 | PASS |
|       |     | VN | 20  | 0.39  | 0.000223  | ± 2.5 | PASS |
|       |     | VN | 30  | -0.5  | -0.000285 | ± 2.5 | PASS |
|       |     | VN | 40  | -1.03 | -0.000588 | ± 2.5 | PASS |
|       |     | VN | 50  | -1.59 | -0.000907 | ± 2.5 | PASS |
|       | HCH | VN | -30 | 1.81  | 0.000949  | ± 2.5 | PASS |
|       |     | VN | -20 | 3.46  | 0.001814  | ± 2.5 | PASS |
|       |     | VN | -10 | -1.27 | -0.000666 | ± 2.5 | PASS |
|       |     | VN | 0   | 4.74  | 0.002485  | ± 2.5 | PASS |
|       |     | VN | 10  | -1.96 | -0.001028 | ± 2.5 | PASS |
|       |     | VN | 20  | 4.15  | 0.002176  | ± 2.5 | PASS |
|       |     | VN | 30  | 3.8   | 0.001992  | ± 2.5 | PASS |
|       |     | VN | 40  | 1.79  | 0.000938  | ± 2.5 | PASS |

|  |  |    |    |      |          |       |      |
|--|--|----|----|------|----------|-------|------|
|  |  | VN | 50 | 4.61 | 0.002417 | ± 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               | 0.08           | 0.000047        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 3.56           | 0.002076        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.82           | 0.002810        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 4.27           | 0.002465        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 2.75           | 0.001587        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 1.13           | 0.000652        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 3.15           | 0.001800        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 4.85           | 0.002771        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 2.88           | 0.001646        | ± 2.5       | PASS    |
| 16QAM                     | LCH     | VL            | TN               | 0.54           | 0.000315        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 2.32           | 0.001353        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -0.75          | -0.000437       | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 4.45           | 0.002569        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -0.28          | -0.000162       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 1.45           | 0.000837        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | -0.82          | -0.000469       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.08          | -0.000617       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 1.85           | 0.001057        | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 16QAM                     | LCH     | VN            | -30              | 0.72           | 0.000420        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 1.1            | 0.000641        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -0.44          | -0.000257       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 3.11           | 0.001813        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | -0.63          | -0.000367       | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 3.34           | 0.001948        | ± 2.5       | PASS    |
|                           |         | VN            | 30               | 1.32           | 0.000770        | ± 2.5       | PASS    |
|                           |         | VN            | 40               | 1.71           | 0.000997        | ± 2.5       | PASS    |
|                           |         | VN            | 50               | 2.98           | 0.001738        | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | 2.93           | 0.001691        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 3.89           | 0.002245        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | 1.73           | 0.000999        | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 3.13           | 0.001807        | ± 2.5       | PASS    |

|      |     |    |     |       |           |       |      |
|------|-----|----|-----|-------|-----------|-------|------|
|      |     | VN | 10  | 2.39  | 0.001380  | ± 2.5 | PASS |
|      |     | VN | 20  | 0.06  | 0.000035  | ± 2.5 | PASS |
|      |     | VN | 30  | 1.53  | 0.000883  | ± 2.5 | PASS |
|      |     | VN | 40  | 3.69  | 0.002130  | ± 2.5 | PASS |
|      |     | VN | 50  | 3.19  | 0.001841  | ± 2.5 | PASS |
|      | HCH | VN | -30 | -1.71 | -0.000977 | ± 2.5 | PASS |
|      |     | VN | -20 | 2.15  | 0.001229  | ± 2.5 | PASS |
|      |     | VN | -10 | 1.44  | 0.000823  | ± 2.5 | PASS |
|      |     | VN | 0   | -0.83 | -0.000474 | ± 2.5 | PASS |
|      |     | VN | 10  | 3.18  | 0.001817  | ± 2.5 | PASS |
|      |     | VN | 20  | 0.63  | 0.000360  | ± 2.5 | PASS |
|      |     | VN | 30  | 3.07  | 0.001754  | ± 2.5 | PASS |
|      |     | VN | 40  | 3.97  | 0.002269  | ± 2.5 | PASS |
|      |     | VN | 50  | 2.09  | 0.001194  | ± 2.5 | PASS |
| QPSK | LCH | VN | -30 | -1.8  | -0.001039 | ± 2.5 | PASS |
|      |     | VN | -20 | 0.65  | 0.000375  | ± 2.5 | PASS |
|      |     | VN | -10 | -1.63 | -0.000941 | ± 2.5 | PASS |
|      |     | VN | 0   | 3.1   | 0.001789  | ± 2.5 | PASS |
|      |     | VN | 10  | 2.16  | 0.001247  | ± 2.5 | PASS |
|      |     | VN | 20  | -0.32 | -0.000185 | ± 2.5 | PASS |
|      |     | VN | 30  | 2.77  | 0.001599  | ± 2.5 | PASS |
|      |     | VN | 40  | -1.19 | -0.000687 | ± 2.5 | PASS |
|      |     | VN | 50  | 3.09  | 0.001784  | ± 2.5 | PASS |
|      | MCH | VN | -30 | 1.96  | 0.001120  | ± 2.5 | PASS |
|      |     | VN | -20 | -1.79 | -0.001023 | ± 2.5 | PASS |
|      |     | VN | -10 | 2.89  | 0.001651  | ± 2.5 | PASS |
|      |     | VN | 0   | 0.33  | 0.000189  | ± 2.5 | PASS |
|      |     | VN | 10  | 2.34  | 0.001337  | ± 2.5 | PASS |
|      |     | VN | 20  | 2.84  | 0.001623  | ± 2.5 | PASS |
|      |     | VN | 30  | 1.27  | 0.000726  | ± 2.5 | PASS |
|      |     | VN | 40  | 0.3   | 0.000171  | ± 2.5 | PASS |
|      |     | VN | 50  | 1.54  | 0.000880  | ± 2.5 | PASS |
|      | HCH | VN | -30 | 1.23  | 0.000703  | ± 2.5 | PASS |
|      |     | VN | -20 | 1.44  | 0.000823  | ± 2.5 | PASS |
|      |     | VN | -10 | 3.45  | 0.001971  | ± 2.5 | PASS |
|      |     | VN | 0   | 0.01  | 0.000006  | ± 2.5 | PASS |
|      |     | VN | 10  | 1.55  | 0.000886  | ± 2.5 | PASS |
|      |     | VN | 20  | 4.66  | 0.002663  | ± 2.5 | PASS |
|      |     | VN | 30  | 4.84  | 0.002766  | ± 2.5 | PASS |
|      |     | VN | 40  | 3.93  | 0.002246  | ± 2.5 | PASS |
|      |     | VN | 50  | 3.67  | 0.002097  | ± 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               | 4.16           | 0.002422        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -0.7           | -0.000408       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 1.66           | 0.000967        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 3.35           | 0.001934        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 3.1            | 0.001789        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 2.99           | 0.001726        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 0.17           | 0.000097        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.35          | -0.000773       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 0.56           | 0.000320        | ± 2.5       | PASS    |
| 16QAM                     | LCH     | VL            | TN               | 0.21           | 0.000122        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 0.28           | 0.000163        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -1.09          | -0.000635       | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 3.95           | 0.002280        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -0.66          | -0.000381       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.06           | 0.002343        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 2.95           | 0.001688        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 3.07           | 0.001757        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 3.46           | 0.001980        | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VN            | -30              | 3.69           | 0.002148        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 0.54           | 0.000314        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | 3.63           | 0.002114        | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 4.02           | 0.002341        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | -1.49          | -0.000868       | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 4.79           | 0.002789        | ± 2.5       | PASS    |
|                           |         | VN            | 30               | 1.91           | 0.001112        | ± 2.5       | PASS    |
|                           |         | VN            | 40               | 2.43           | 0.001415        | ± 2.5       | PASS    |
|                           |         | VN            | 50               | -0.68          | -0.000396       | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | -1.94          | -0.001120       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | -0.54          | -0.000312       | ± 2.5       | PASS    |
|                           |         | VN            | -10              | 1.77           | 0.001022        | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 4.61           | 0.002661        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | -0.33          | -0.000190       | ± 2.5       | PASS    |
|                           |         | VN            | 20               | -0.37          | -0.000214       | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | 30  | -1.24 | -0.000716 | ± 2.5 | PASS |
|       |     | VN | 40  | 4.6   | 0.002655  | ± 2.5 | PASS |
|       |     | VN | 50  | -0.83 | -0.000479 | ± 2.5 | PASS |
|       | HCH | VN | -30 | 3.11  | 0.001780  | ± 2.5 | PASS |
|       |     | VN | -20 | 4.78  | 0.002735  | ± 2.5 | PASS |
|       |     | VN | -10 | 3.69  | 0.002112  | ± 2.5 | PASS |
|       |     | VN | 0   | -0.57 | -0.000326 | ± 2.5 | PASS |
|       |     | VN | 10  | -1.83 | -0.001047 | ± 2.5 | PASS |
|       |     | VN | 20  | 3.75  | 0.002146  | ± 2.5 | PASS |
|       |     | VN | 30  | -1.24 | -0.000710 | ± 2.5 | PASS |
|       |     | VN | 40  | 3.92  | 0.002243  | ± 2.5 | PASS |
|       |     | VN | 50  | 3.95  | 0.002260  | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -1.2  | -0.000693 | ± 2.5 | PASS |
|       |     | VN | -20 | -0.53 | -0.000306 | ± 2.5 | PASS |
|       |     | VN | -10 | 4.7   | 0.002713  | ± 2.5 | PASS |
|       |     | VN | 0   | 4.51  | 0.002603  | ± 2.5 | PASS |
|       |     | VN | 10  | 1.92  | 0.001108  | ± 2.5 | PASS |
|       |     | VN | 20  | 0.62  | 0.000358  | ± 2.5 | PASS |
|       |     | VN | 30  | 4.39  | 0.002534  | ± 2.5 | PASS |
|       |     | VN | 40  | 3.96  | 0.002286  | ± 2.5 | PASS |
|       |     | VN | 50  | 3.5   | 0.002020  | ± 2.5 | PASS |
|       | MCH | VN | -30 | 2.97  | 0.001700  | ± 2.5 | PASS |
|       |     | VN | -20 | 4.29  | 0.002455  | ± 2.5 | PASS |
|       |     | VN | -10 | -1.54 | -0.000881 | ± 2.5 | PASS |
|       |     | VN | 0   | -0.32 | -0.000183 | ± 2.5 | PASS |
|       |     | VN | 10  | -1.96 | -0.001122 | ± 2.5 | PASS |
|       |     | VN | 20  | 2.92  | 0.001671  | ± 2.5 | PASS |
|       |     | VN | 30  | -0.39 | -0.000223 | ± 2.5 | PASS |
|       |     | VN | 40  | -1.49 | -0.000853 | ± 2.5 | PASS |
|       |     | VN | 50  | 0.17  | 0.000097  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 4.53  | 0.002592  | ± 2.5 | PASS |
|       |     | VN | -20 | -1.08 | -0.000618 | ± 2.5 | PASS |
|       |     | VN | -10 | 1.73  | 0.000990  | ± 2.5 | PASS |
|       |     | VN | 0   | 3.32  | 0.001900  | ± 2.5 | PASS |
|       |     | VN | 10  | -0.59 | -0.000338 | ± 2.5 | PASS |
|       |     | VN | 20  | -1.28 | -0.000732 | ± 2.5 | PASS |
|       |     | VN | 30  | 3.04  | 0.001740  | ± 2.5 | PASS |
|       |     | VN | 40  | -0.12 | -0.000069 | ± 2.5 | PASS |
|       |     | VN | 50  | -0.12 | -0.000069 | ± 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               | 3.67           | 0.002134        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 2.86           | 0.001663        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.48           | 0.002605        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 0.34           | 0.000196        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.03          | -0.000595       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 3.76           | 0.002170        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 3.46           | 0.001983        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -0.78          | -0.000447       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -1.21          | -0.000693       | ± 2.5       | PASS    |
| 16QAM                     | LCH     | VL            | TN               | 1.08           | 0.000628        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 1.53           | 0.000890        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.04           | 0.002349        | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | 0.56           | 0.000323        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | 1.59           | 0.000918        | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 0.89           | 0.000514        | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | 0.84           | 0.000481        | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -1.87          | -0.001072       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | 4.37           | 0.002504        | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VN            | -30              | 1.21           | 0.000703        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | -1.57          | -0.000913       | ± 2.5       | PASS    |
|                           |         | VN            | -10              | 3              | 0.001744        | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 2.06           | 0.001198        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | 4.57           | 0.002657        | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 1.29           | 0.000750        | ± 2.5       | PASS    |
|                           |         | VN            | 30               | 2.88           | 0.001674        | ± 2.5       | PASS    |
|                           |         | VN            | 40               | -0.76          | -0.000442       | ± 2.5       | PASS    |
|                           |         | VN            | 50               | 4.84           | 0.002814        | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | 4.49           | 0.002592        | ± 2.5       | PASS    |
|                           |         | VN            | -20              | 1.76           | 0.001016        | ± 2.5       | PASS    |
|                           |         | VN            | -10              | 3              | 0.001732        | ± 2.5       | PASS    |
|                           |         | VN            | 0                | 2.94           | 0.001697        | ± 2.5       | PASS    |
|                           |         | VN            | 10               | 0.42           | 0.000242        | ± 2.5       | PASS    |
|                           |         | VN            | 20               | 1.91           | 0.001102        | ± 2.5       | PASS    |

|       |     |    |     |       |           |       |      |
|-------|-----|----|-----|-------|-----------|-------|------|
|       |     | VN | 30  | 4.37  | 0.002522  | ± 2.5 | PASS |
|       |     | VN | 40  | 1.31  | 0.000756  | ± 2.5 | PASS |
|       |     | VN | 50  | 0.45  | 0.000260  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 2.62  | 0.001501  | ± 2.5 | PASS |
|       |     | VN | -20 | 0.34  | 0.000195  | ± 2.5 | PASS |
|       |     | VN | -10 | 1.84  | 0.001054  | ± 2.5 | PASS |
|       |     | VN | 0   | 4.99  | 0.002860  | ± 2.5 | PASS |
|       |     | VN | 10  | 3.68  | 0.002109  | ± 2.5 | PASS |
|       |     | VN | 20  | 1.3   | 0.000745  | ± 2.5 | PASS |
|       |     | VN | 30  | 4.41  | 0.002527  | ± 2.5 | PASS |
|       |     | VN | 40  | -0.16 | -0.000092 | ± 2.5 | PASS |
|       |     | VN | 50  | 0.88  | 0.000504  | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -0.91 | -0.000525 | ± 2.5 | PASS |
|       |     | VN | -20 | 3.05  | 0.001760  | ± 2.5 | PASS |
|       |     | VN | -10 | 4.25  | 0.002453  | ± 2.5 | PASS |
|       |     | VN | 0   | -1.71 | -0.000987 | ± 2.5 | PASS |
|       |     | VN | 10  | 1.46  | 0.000843  | ± 2.5 | PASS |
|       |     | VN | 20  | 2.43  | 0.001403  | ± 2.5 | PASS |
|       |     | VN | 30  | 1.75  | 0.001010  | ± 2.5 | PASS |
|       |     | VN | 40  | 1.03  | 0.000595  | ± 2.5 | PASS |
|       |     | VN | 50  | 2.25  | 0.001299  | ± 2.5 | PASS |
|       | MCH | VN | -30 | 4.83  | 0.002768  | ± 2.5 | PASS |
|       |     | VN | -20 | 0.77  | 0.000441  | ± 2.5 | PASS |
|       |     | VN | -10 | 2.89  | 0.001656  | ± 2.5 | PASS |
|       |     | VN | 0   | 1.88  | 0.001077  | ± 2.5 | PASS |
|       |     | VN | 10  | -1.45 | -0.000831 | ± 2.5 | PASS |
|       |     | VN | 20  | -0.69 | -0.000395 | ± 2.5 | PASS |
|       |     | VN | 30  | 2.35  | 0.001347  | ± 2.5 | PASS |
|       |     | VN | 40  | 3.34  | 0.001914  | ± 2.5 | PASS |
|       |     | VN | 50  | 1.87  | 0.001072  | ± 2.5 | PASS |
|       | HCH | VN | -30 | 2.66  | 0.001524  | ± 2.5 | PASS |
|       |     | VN | -20 | -0.94 | -0.000539 | ± 2.5 | PASS |
|       |     | VN | -10 | 0.2   | 0.000115  | ± 2.5 | PASS |
|       |     | VN | 0   | 3.81  | 0.002183  | ± 2.5 | PASS |
|       |     | VN | 10  | 4.88  | 0.002797  | ± 2.5 | PASS |
|       |     | VN | 20  | 3.75  | 0.002149  | ± 2.5 | PASS |
|       |     | VN | 30  | 4.46  | 0.002556  | ± 2.5 | PASS |
|       |     | VN | 40  | 4.66  | 0.002670  | ± 2.5 | PASS |
|       |     | VN | 50  | 2.25  | 0.001289  | ± 2.5 | PASS |