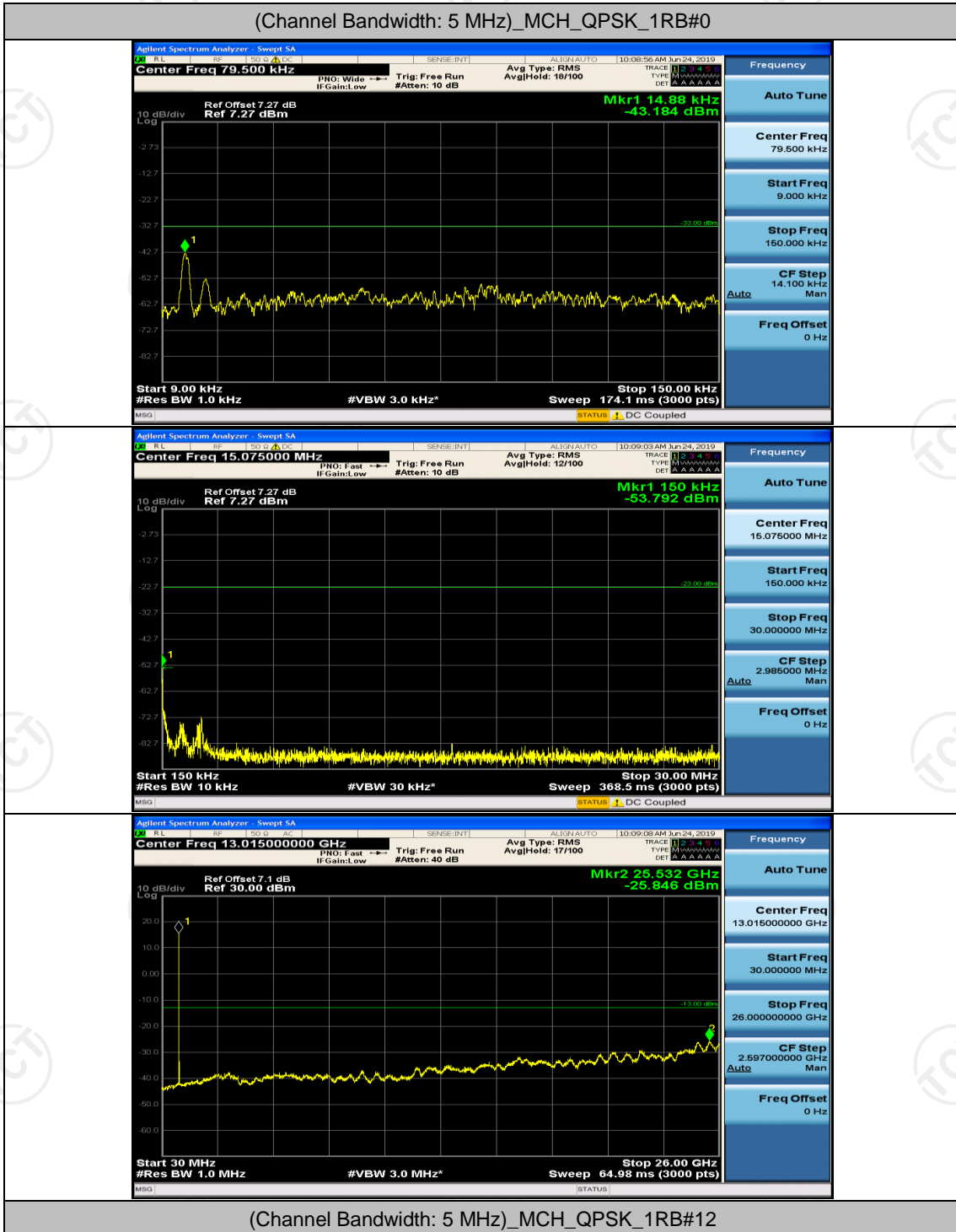
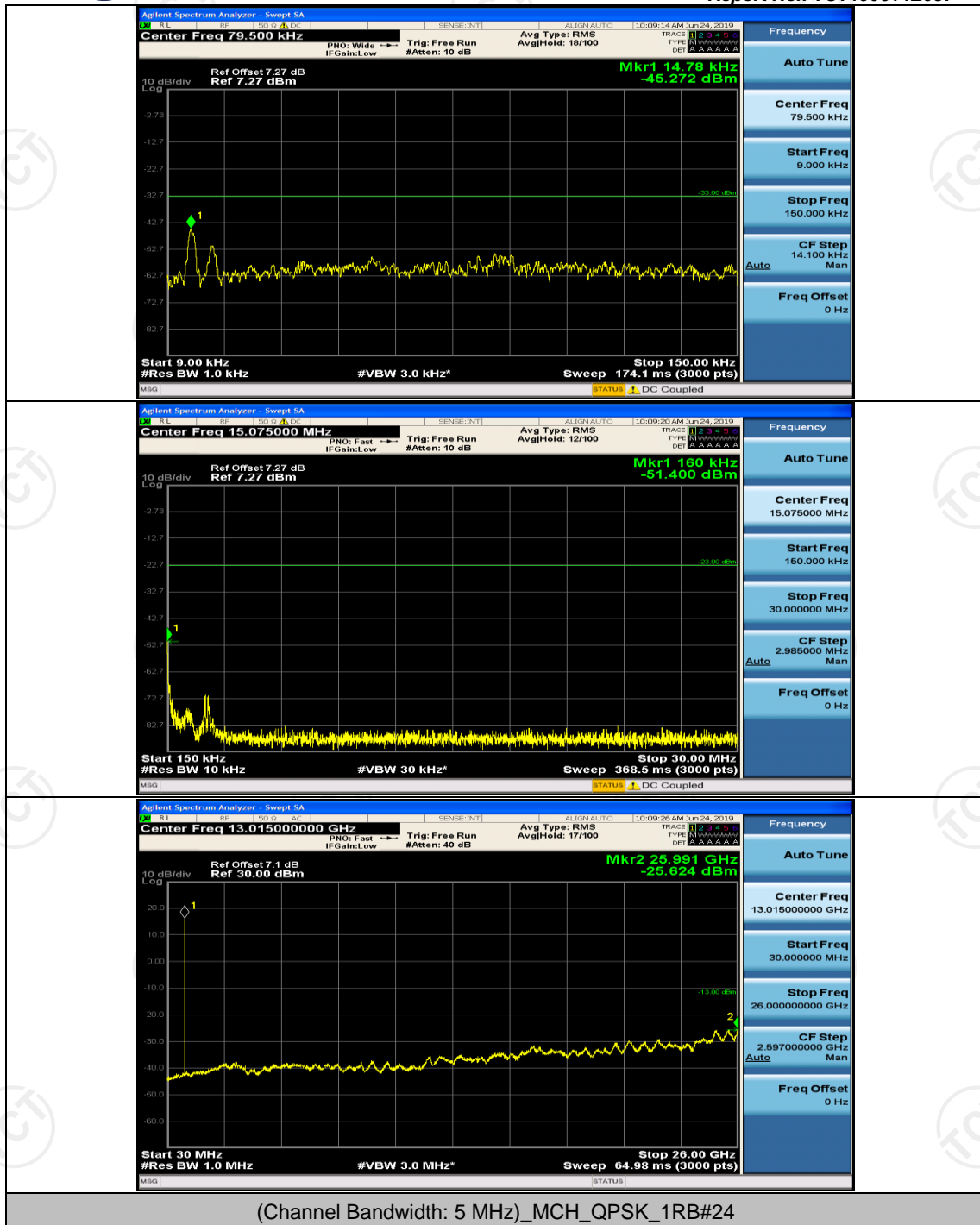
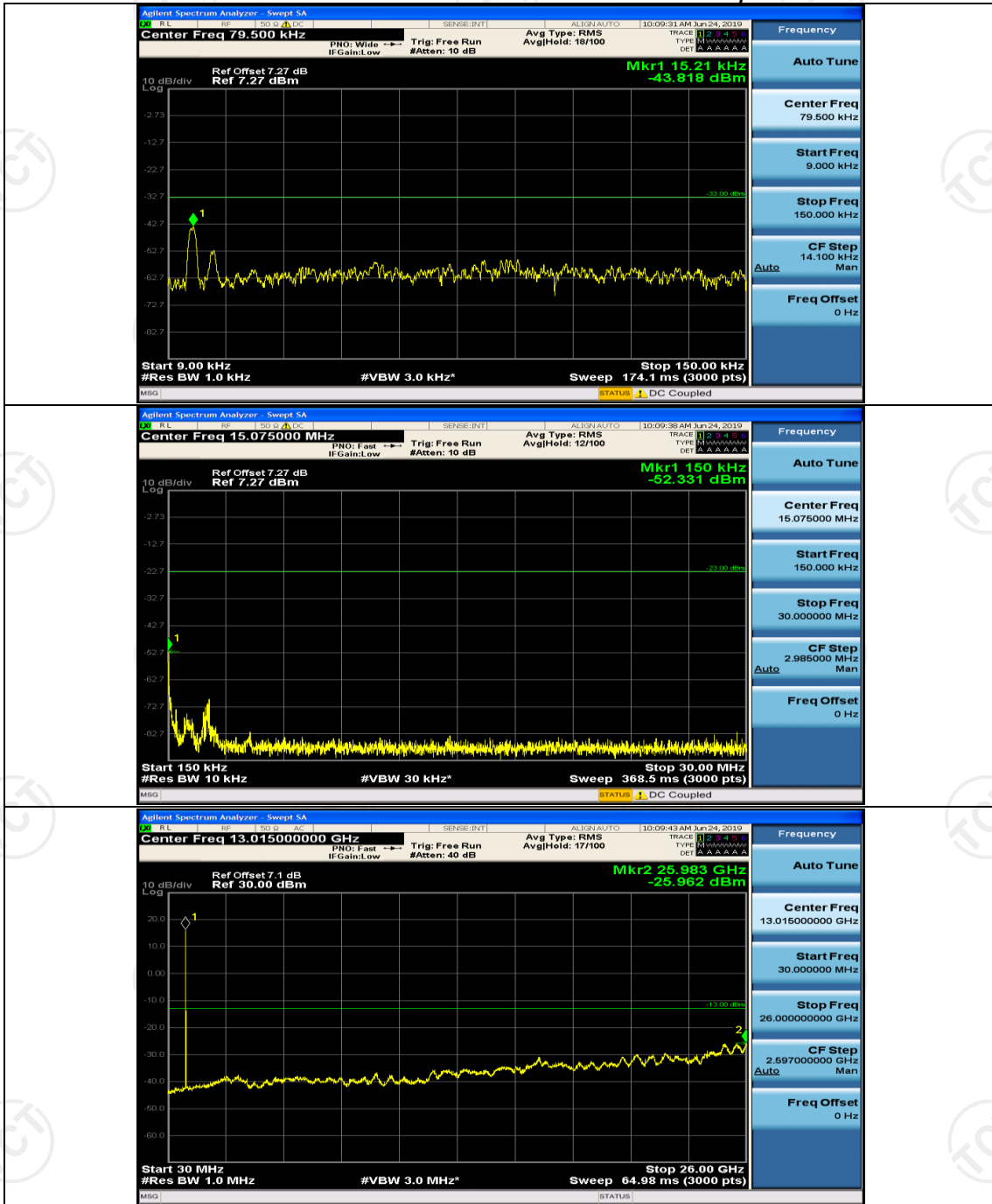


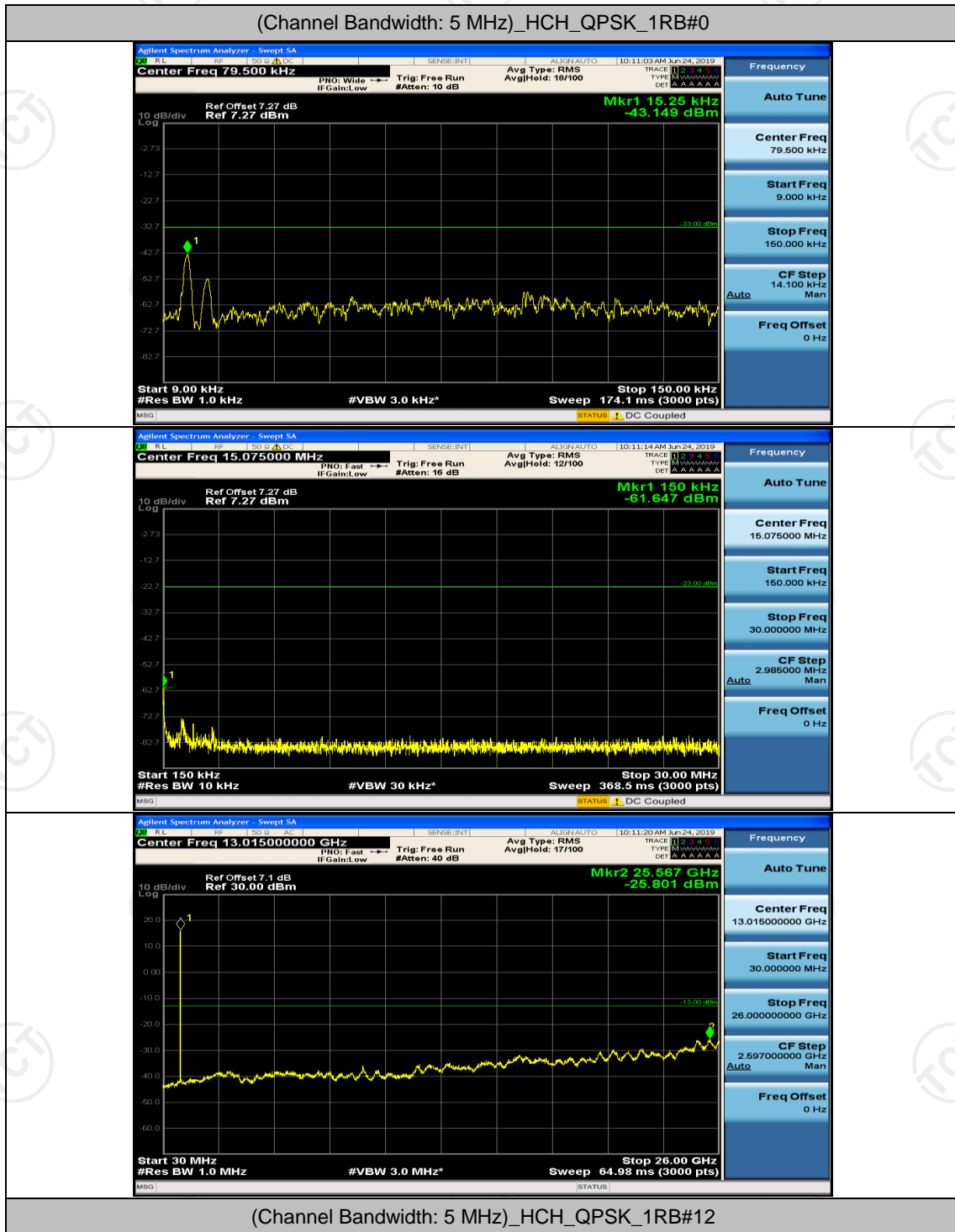
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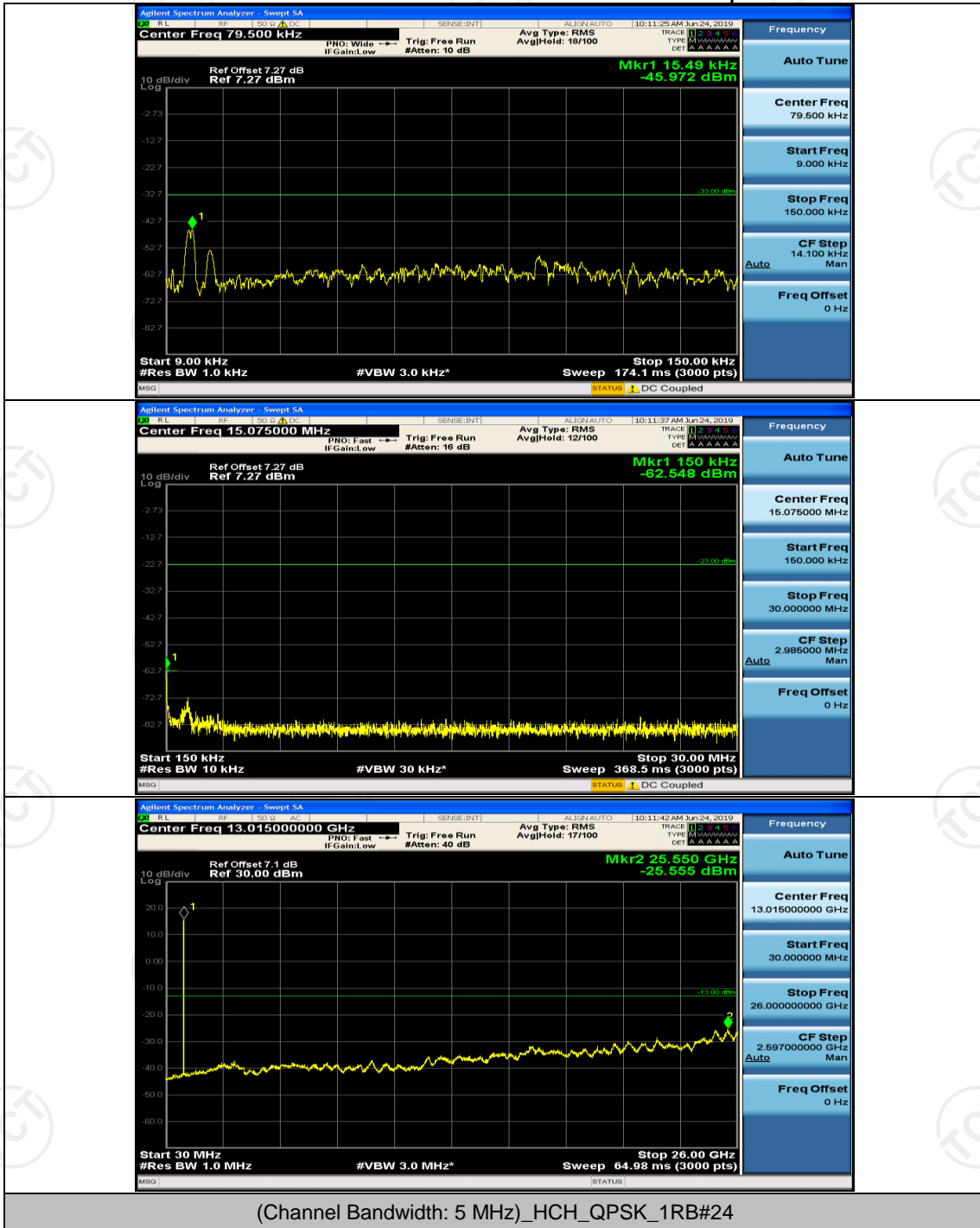


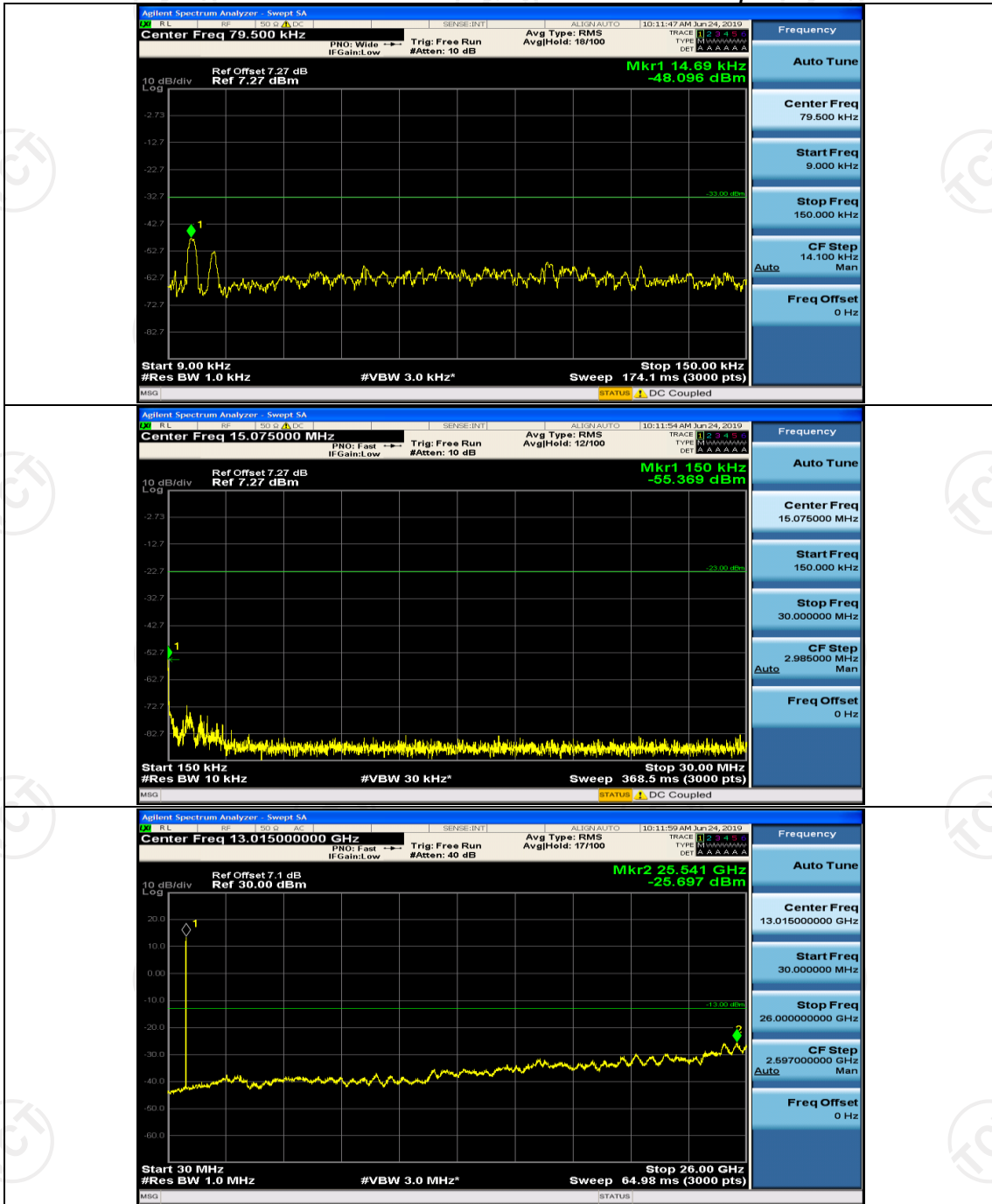
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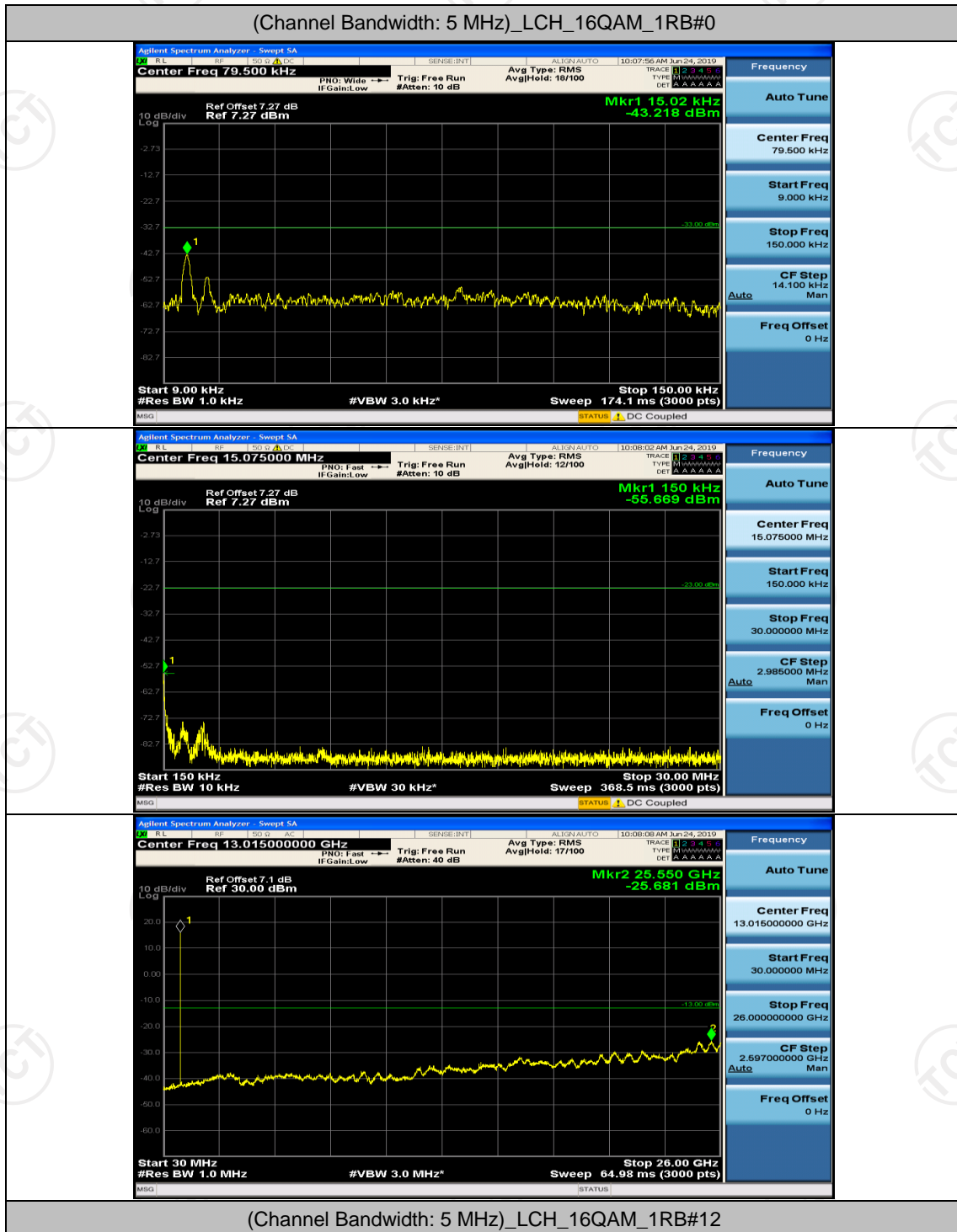


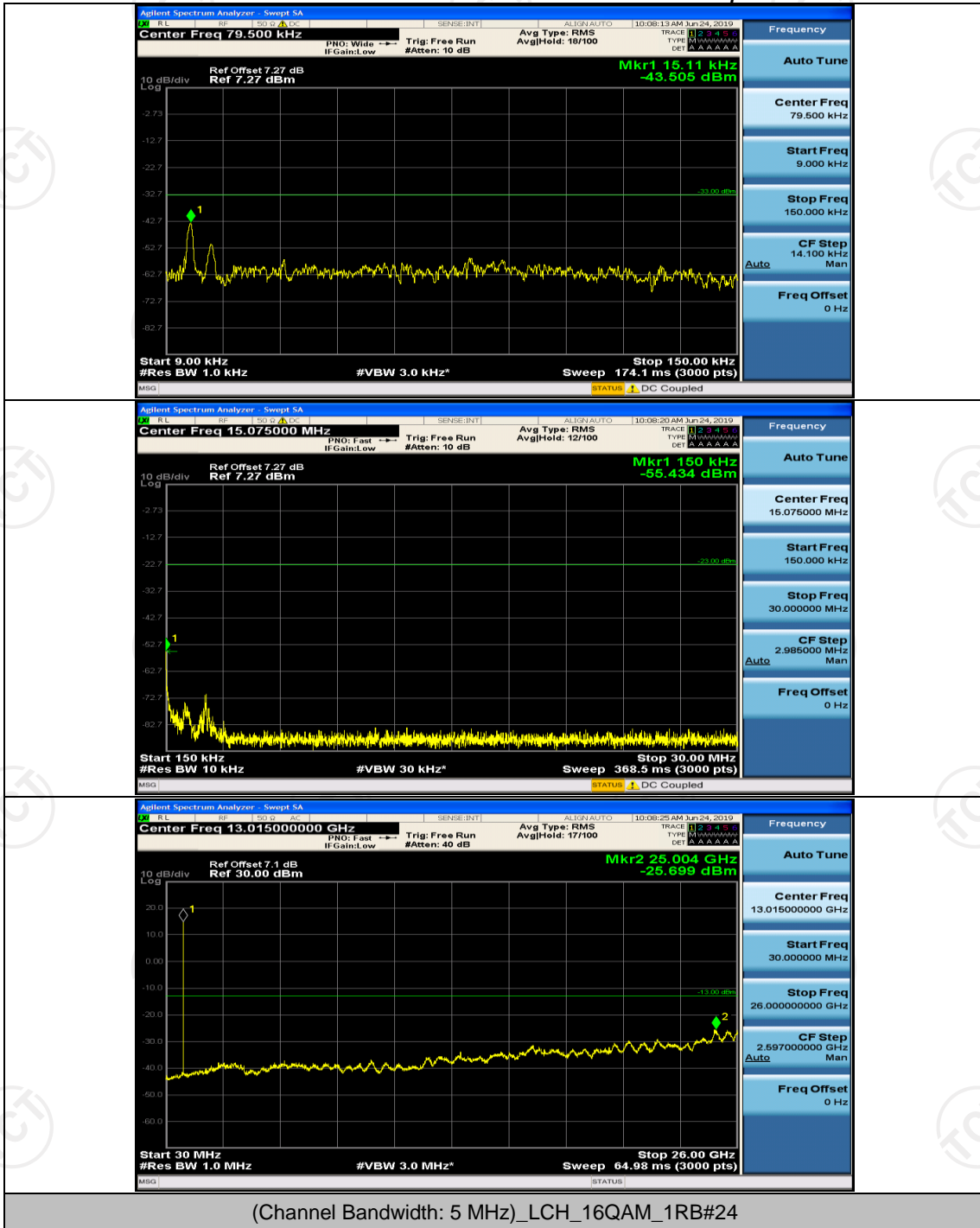


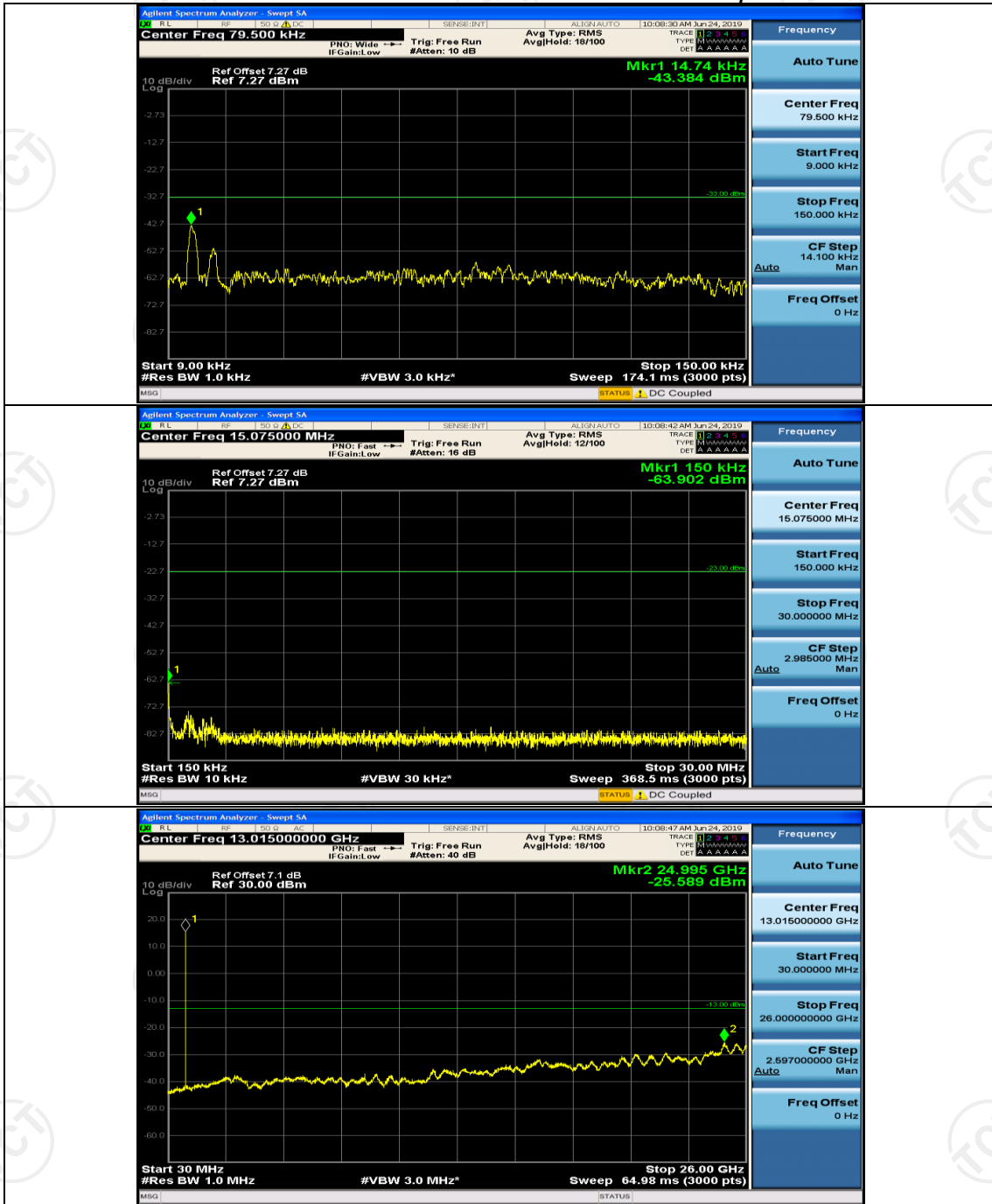


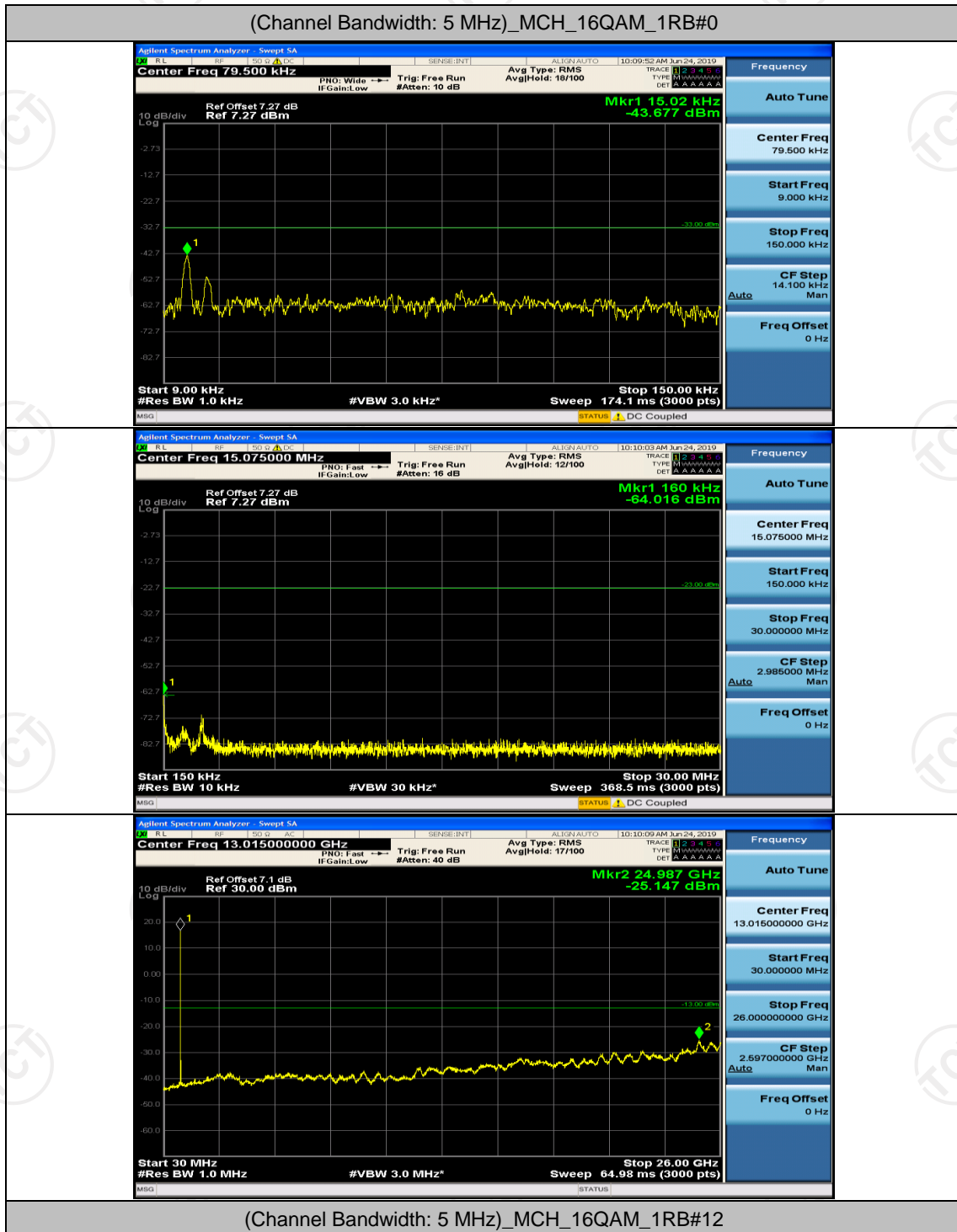


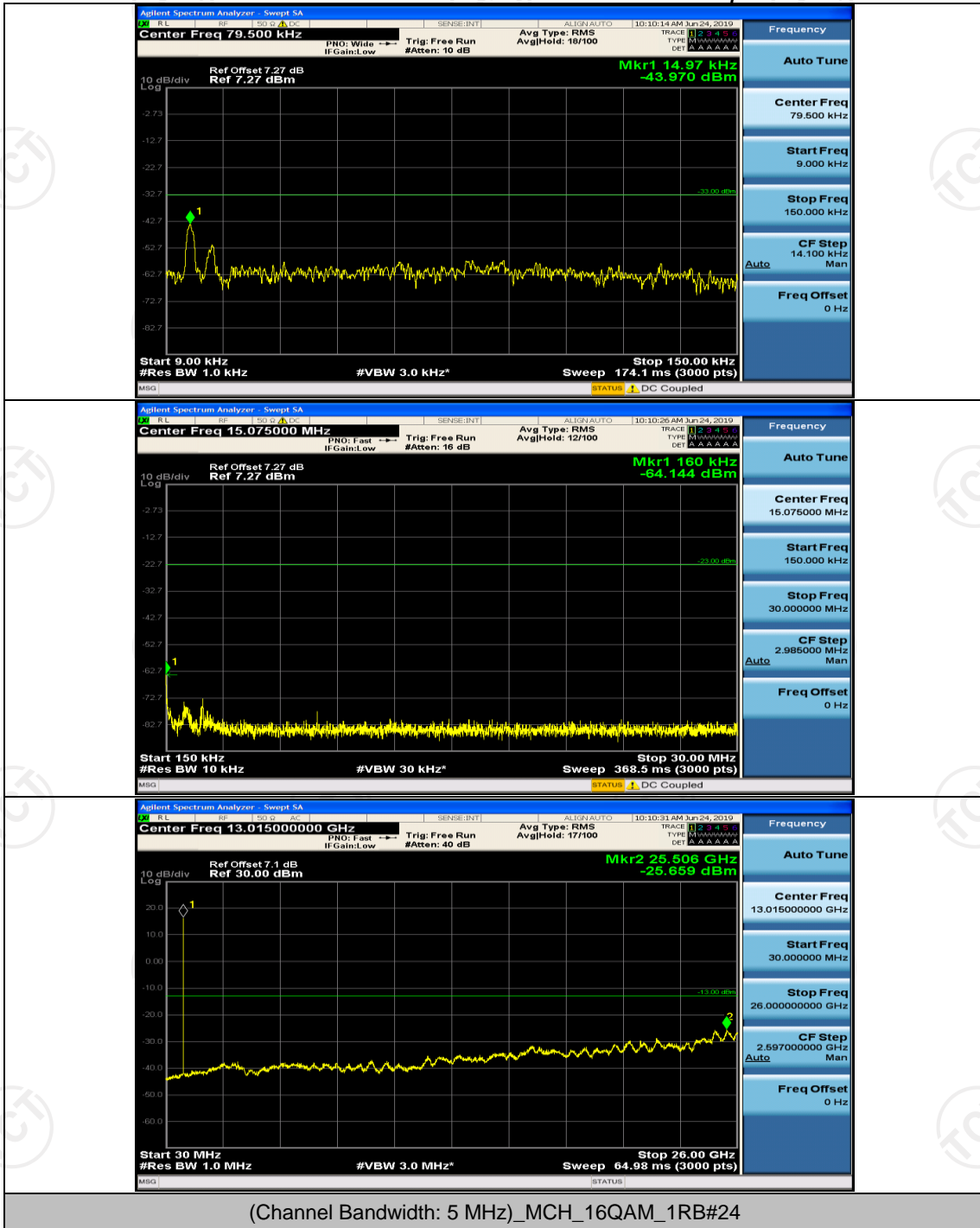


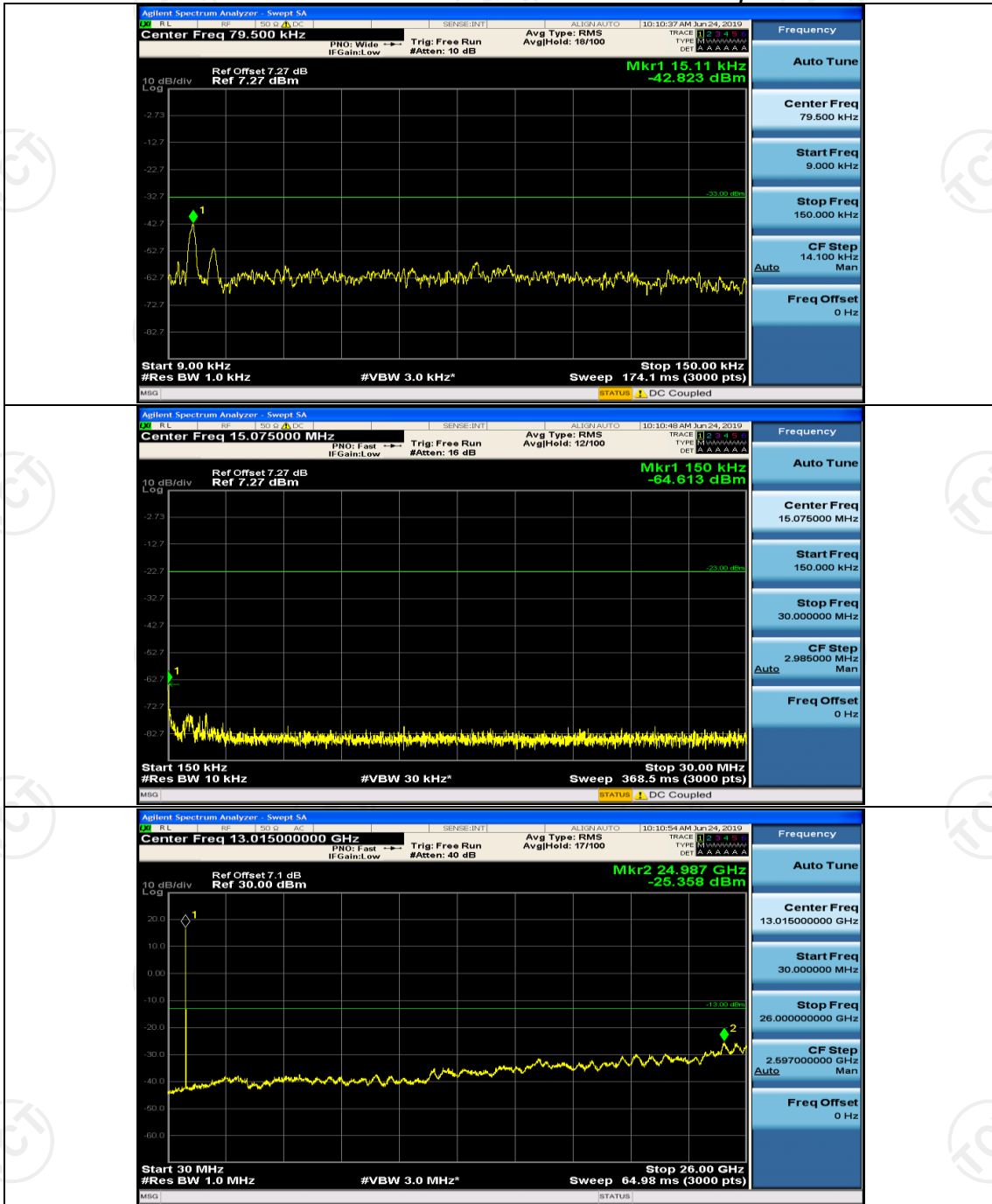


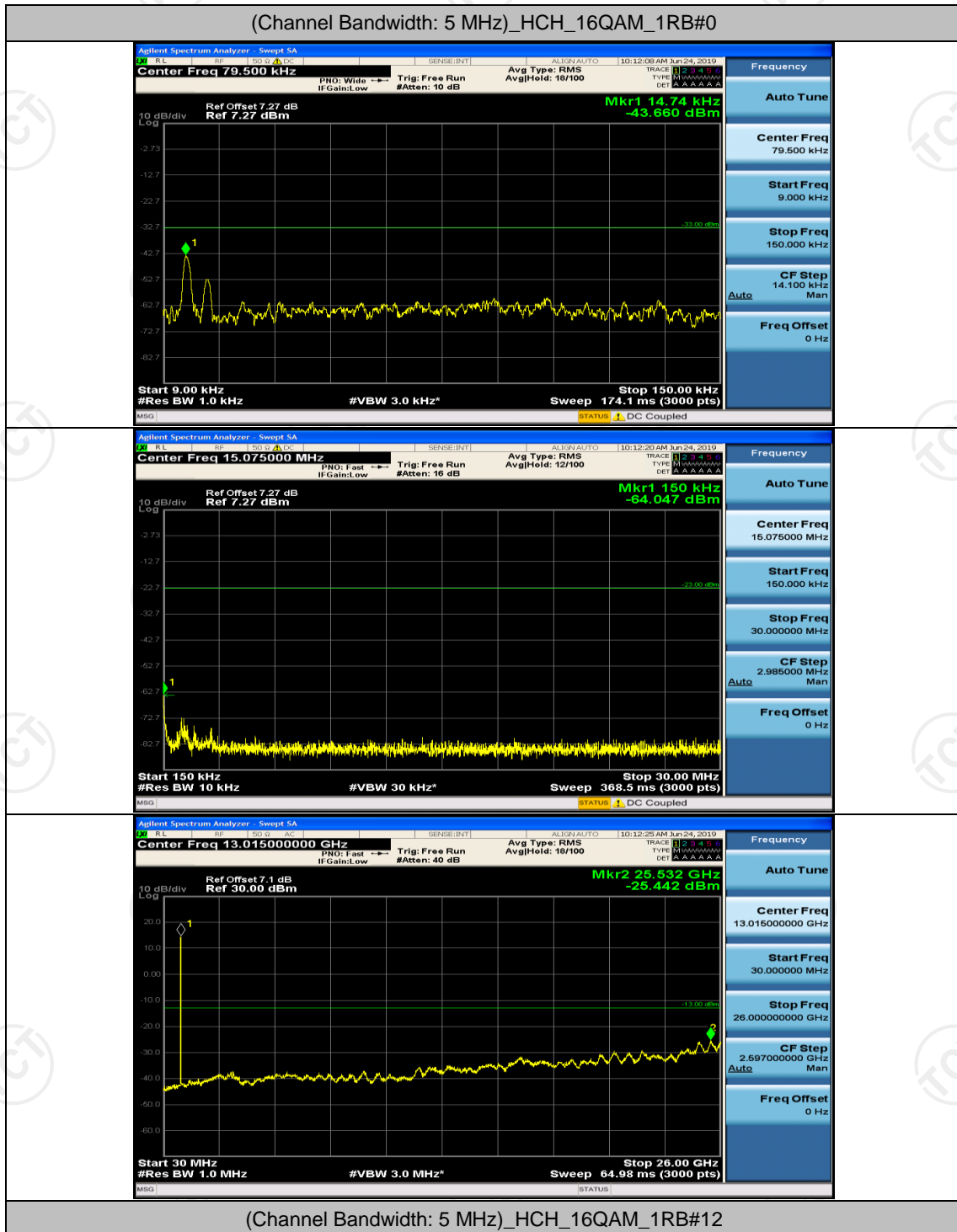


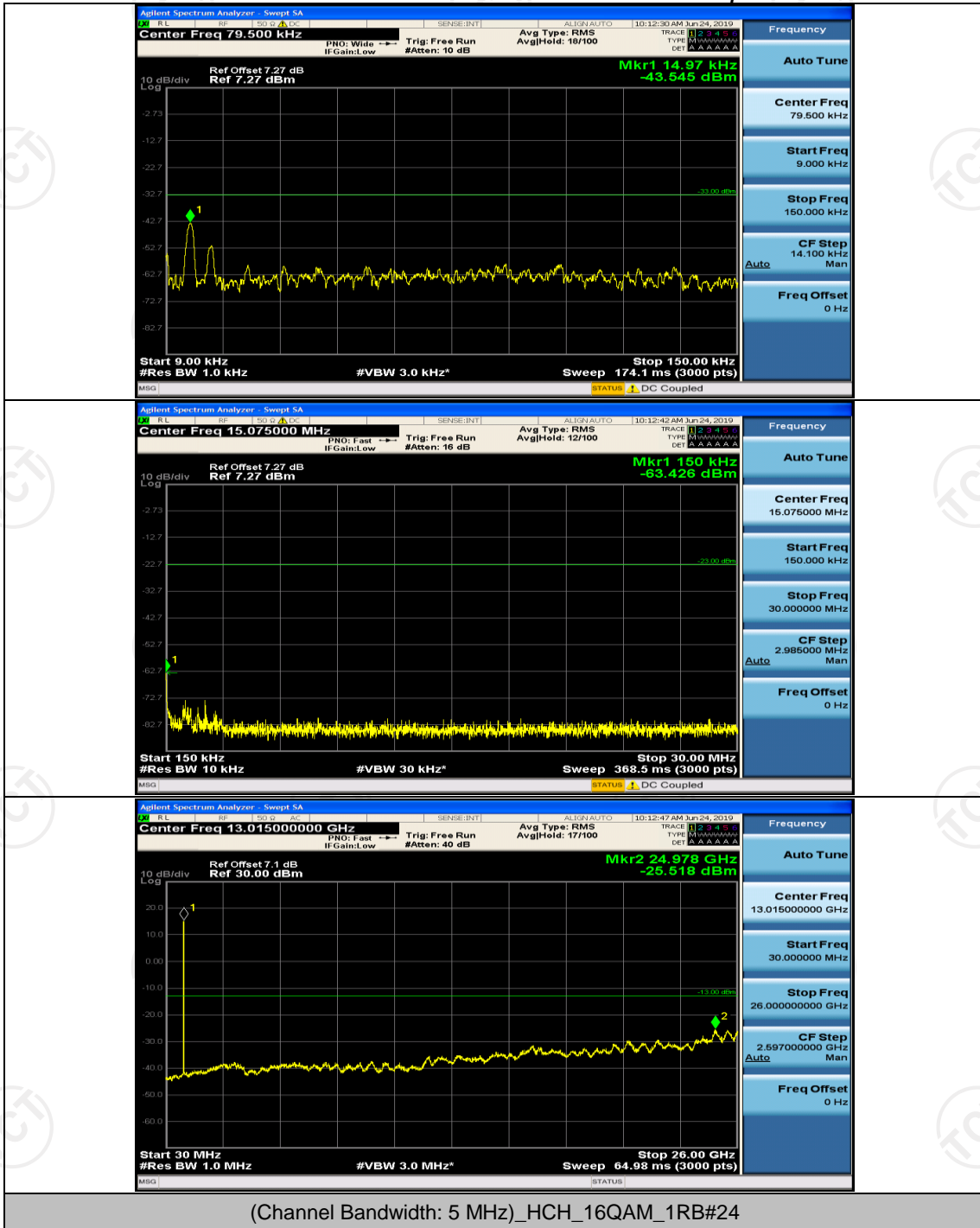




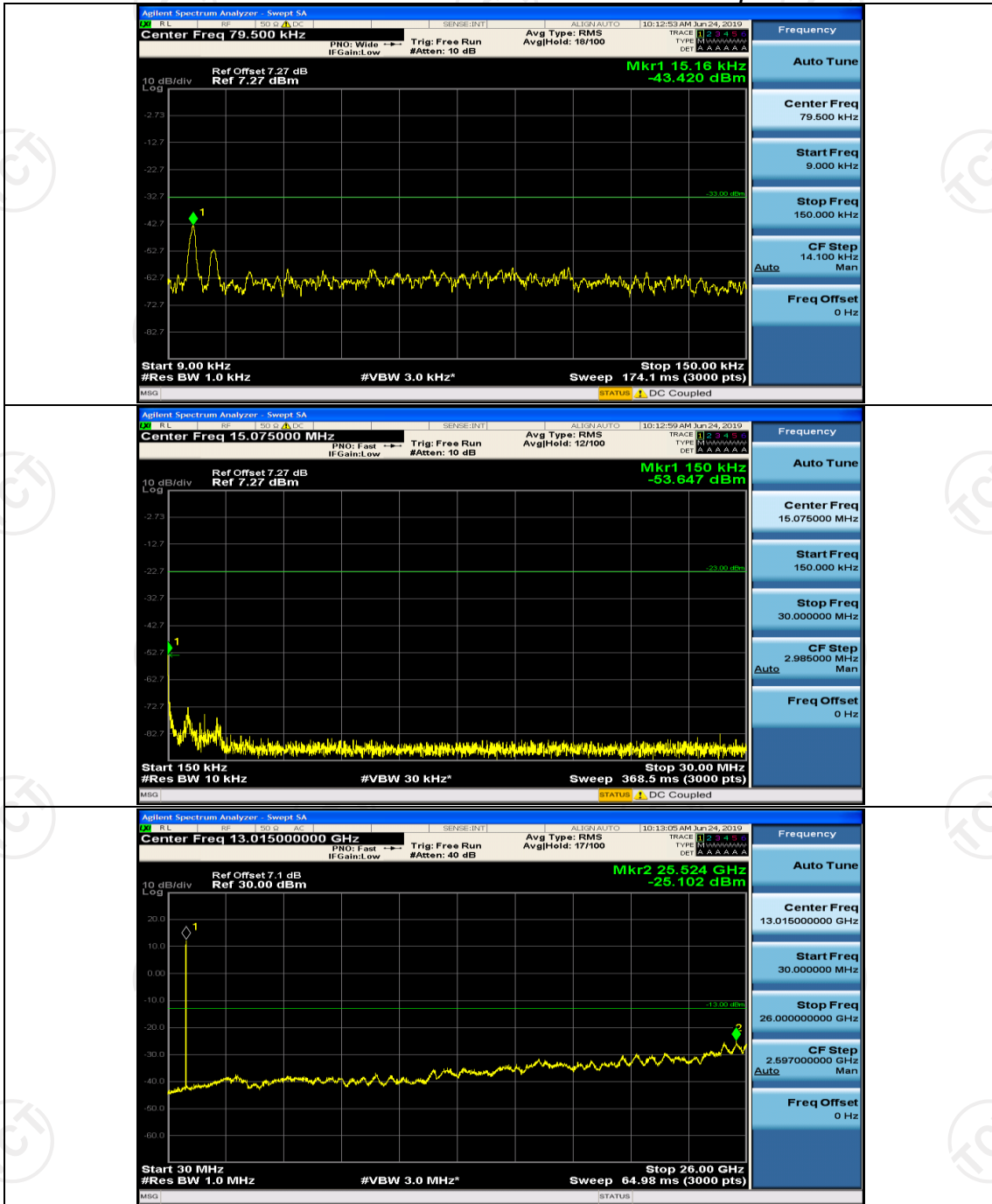




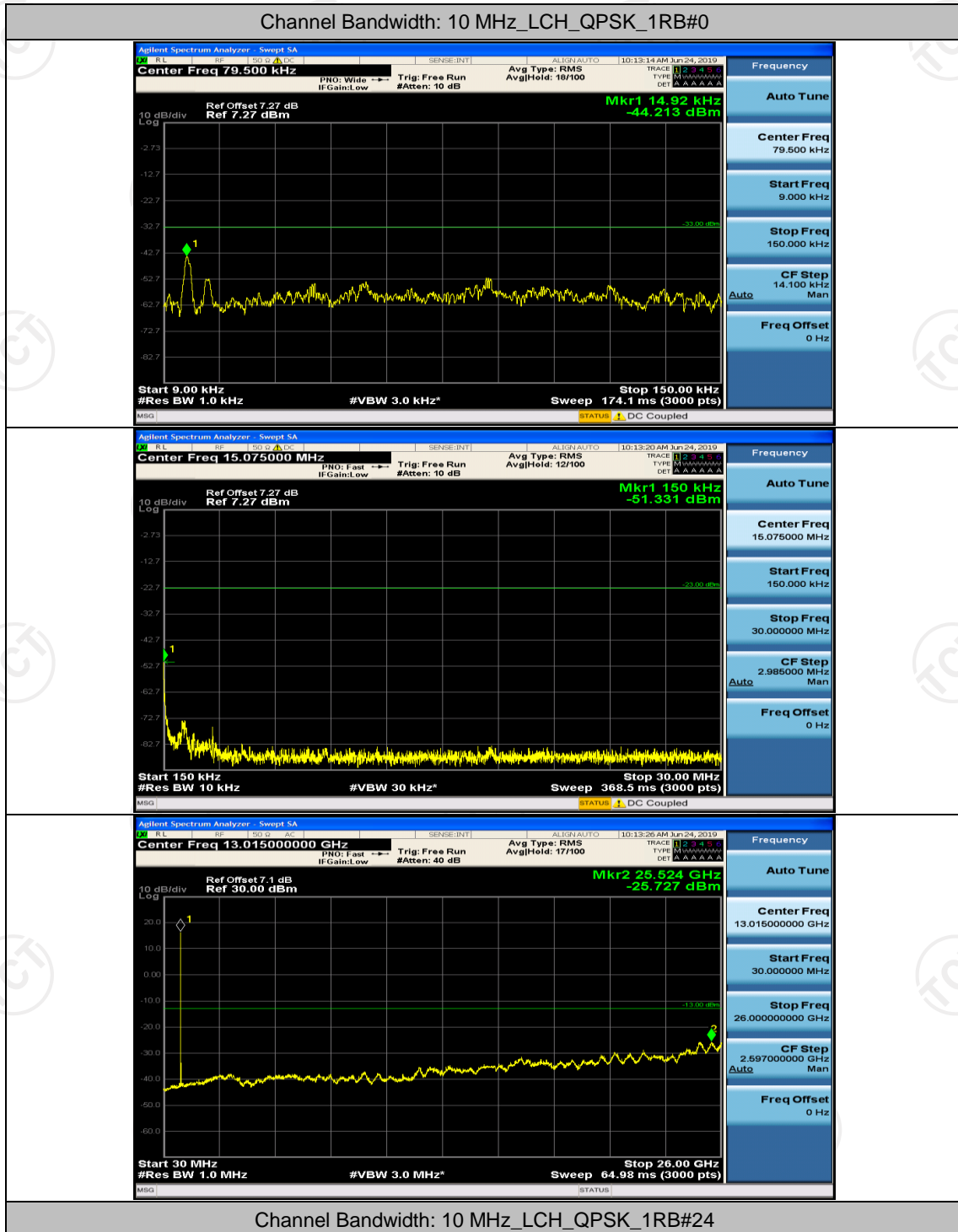


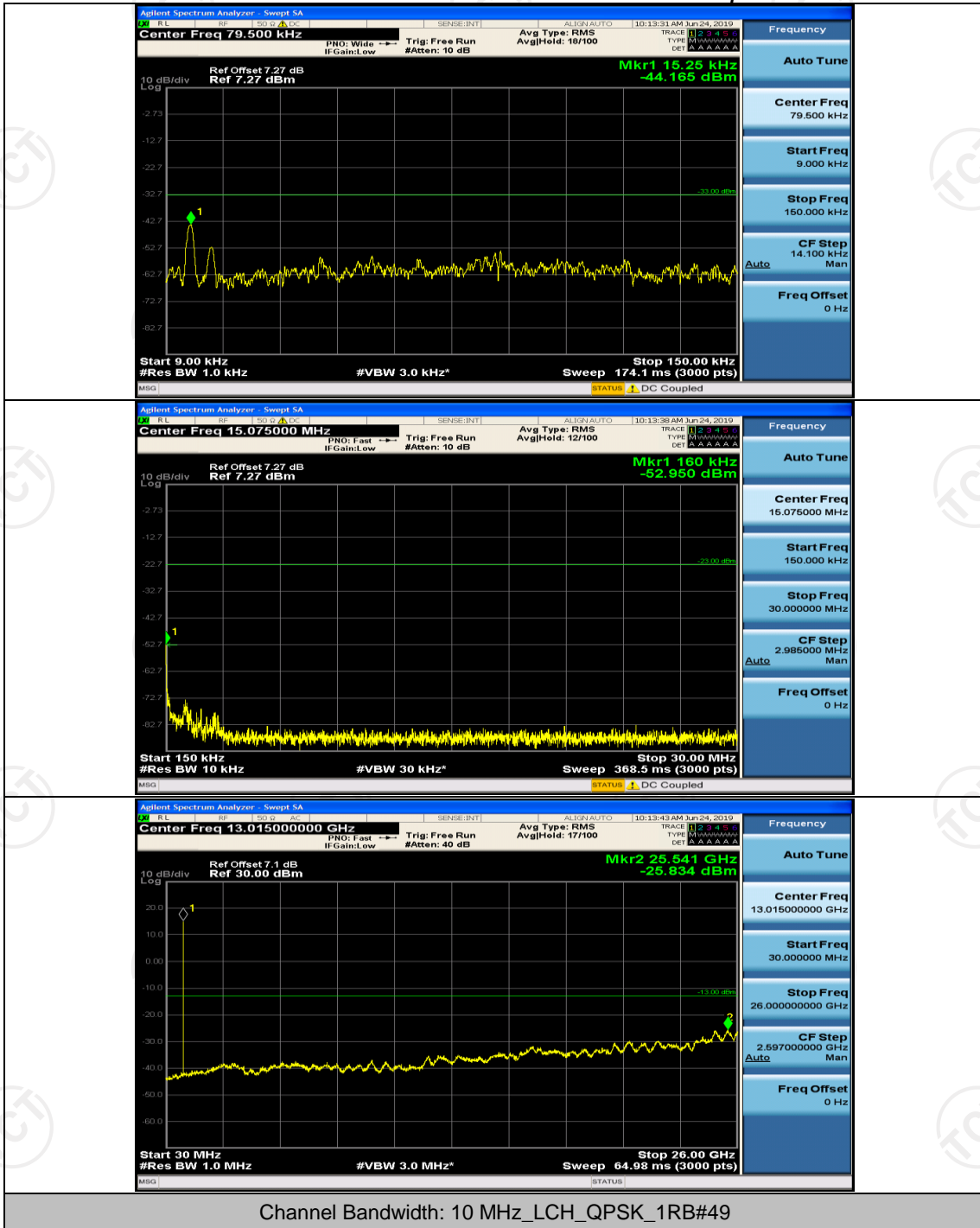


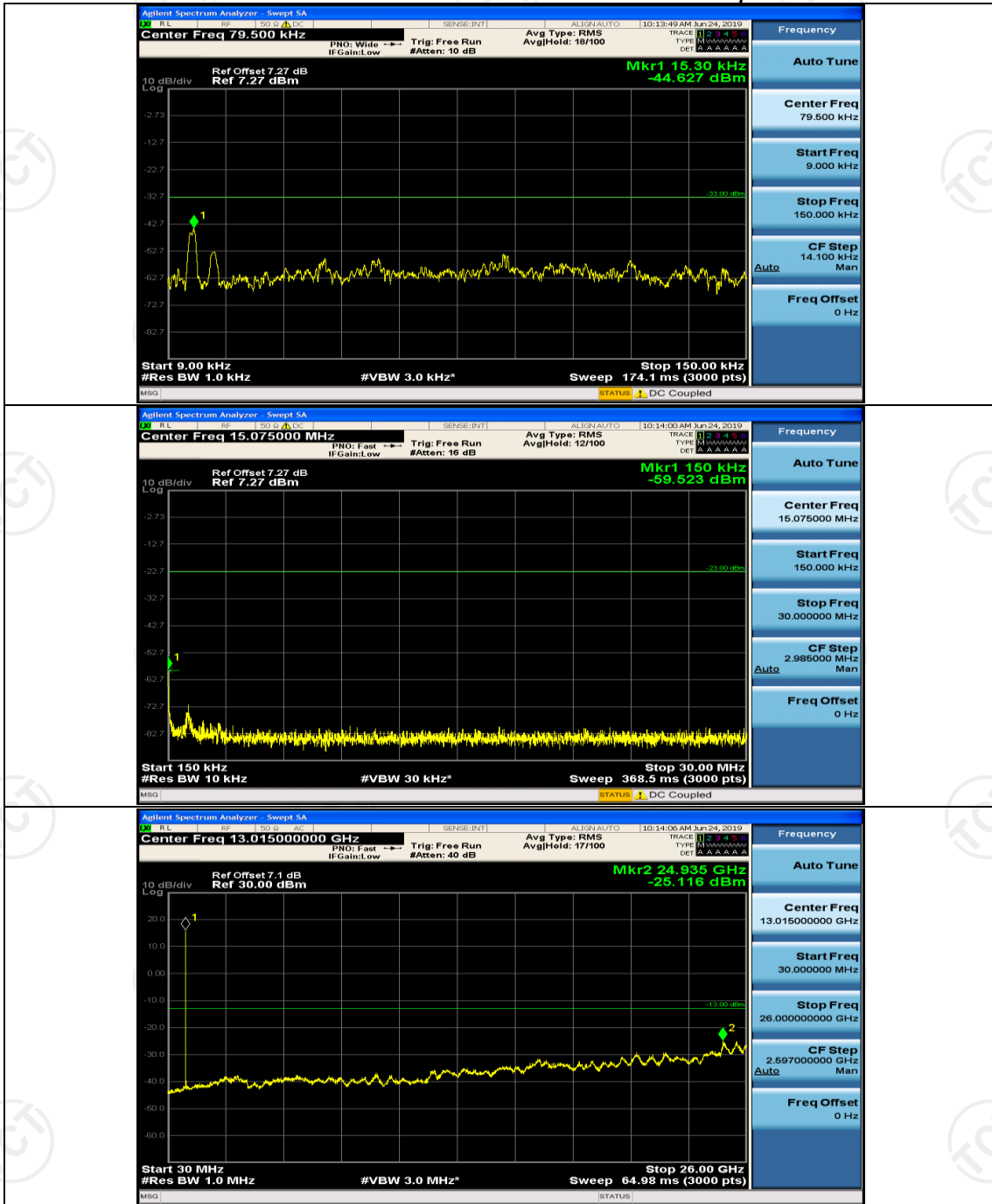


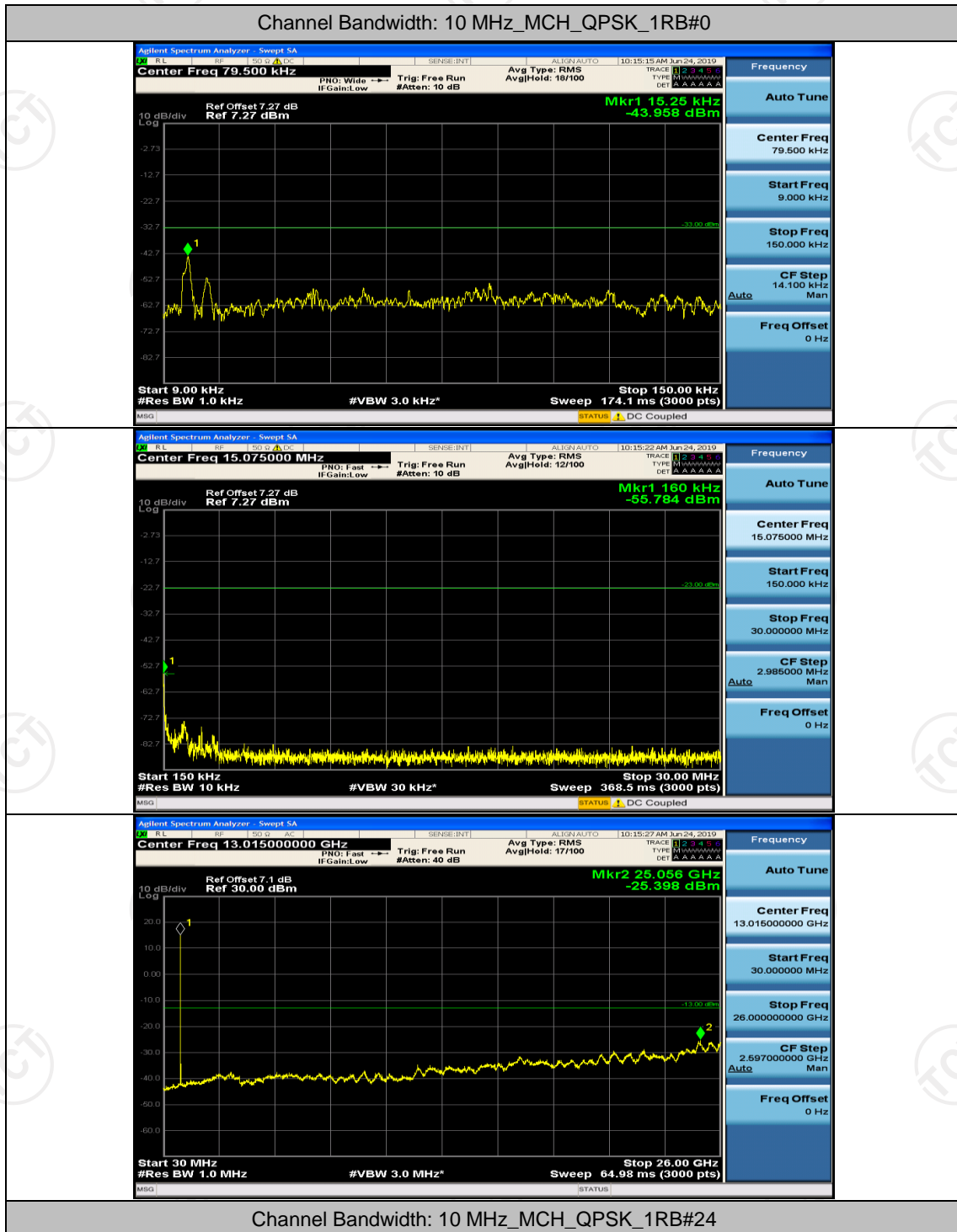


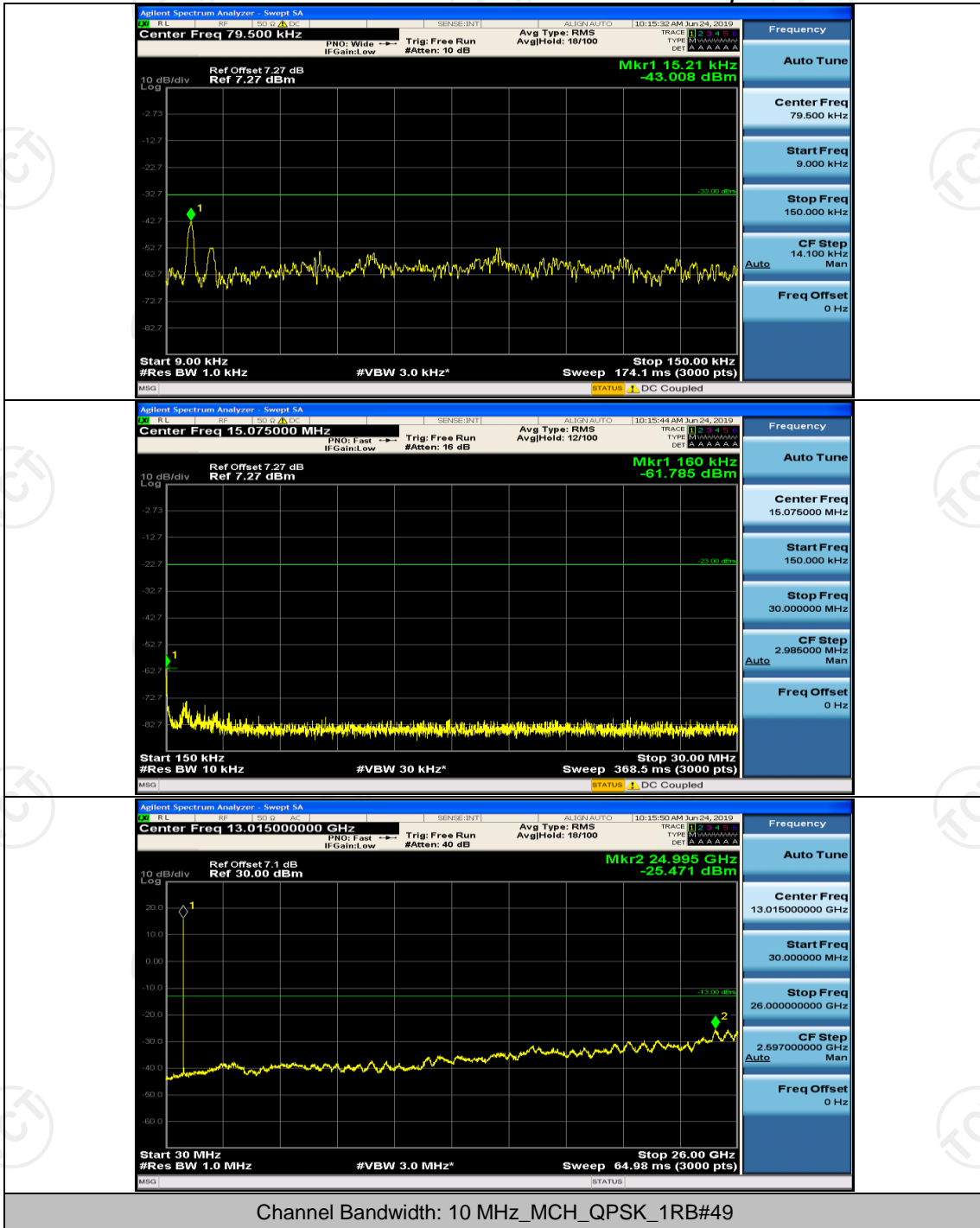
## Channel Bandwidth: 10 MHz

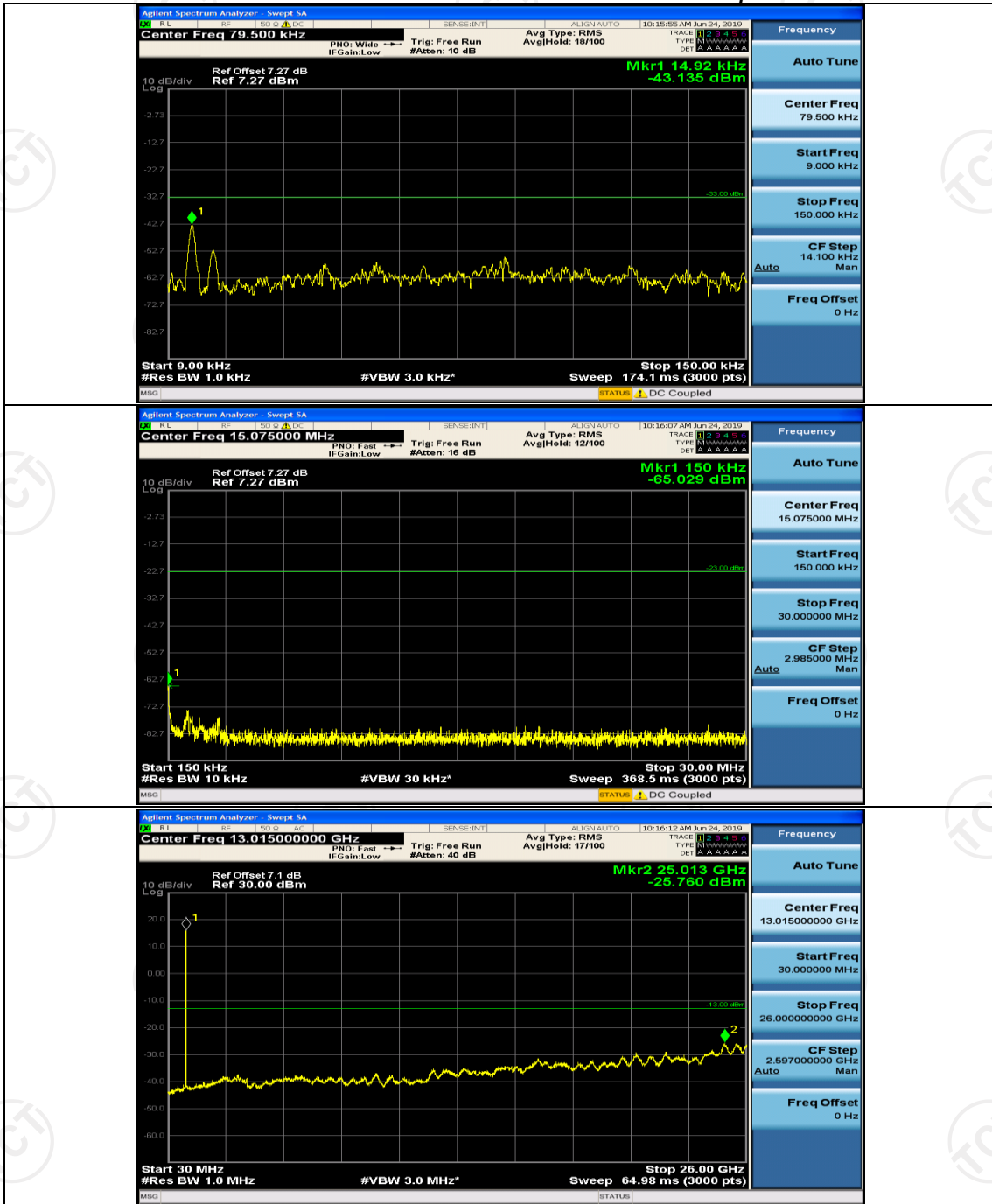


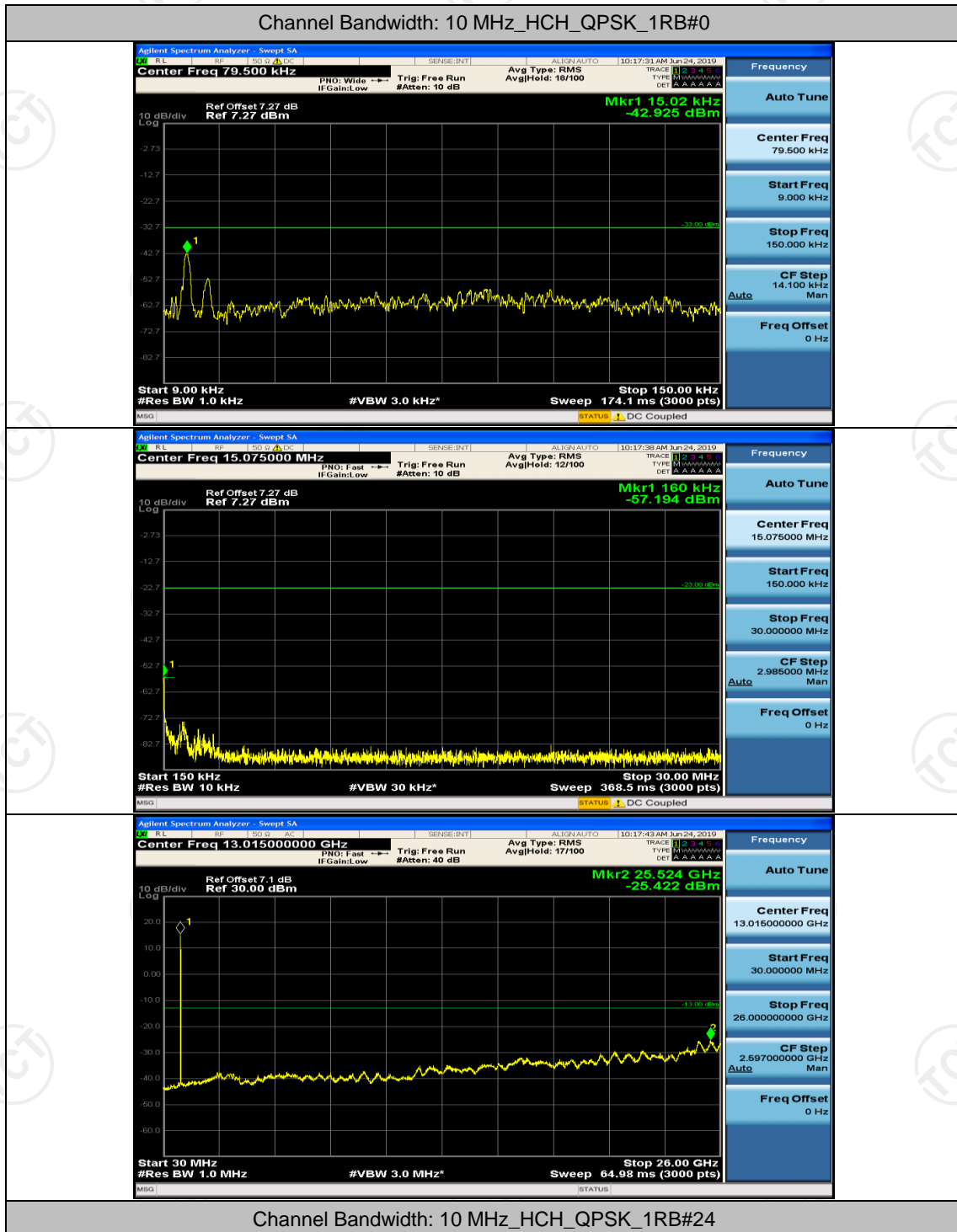




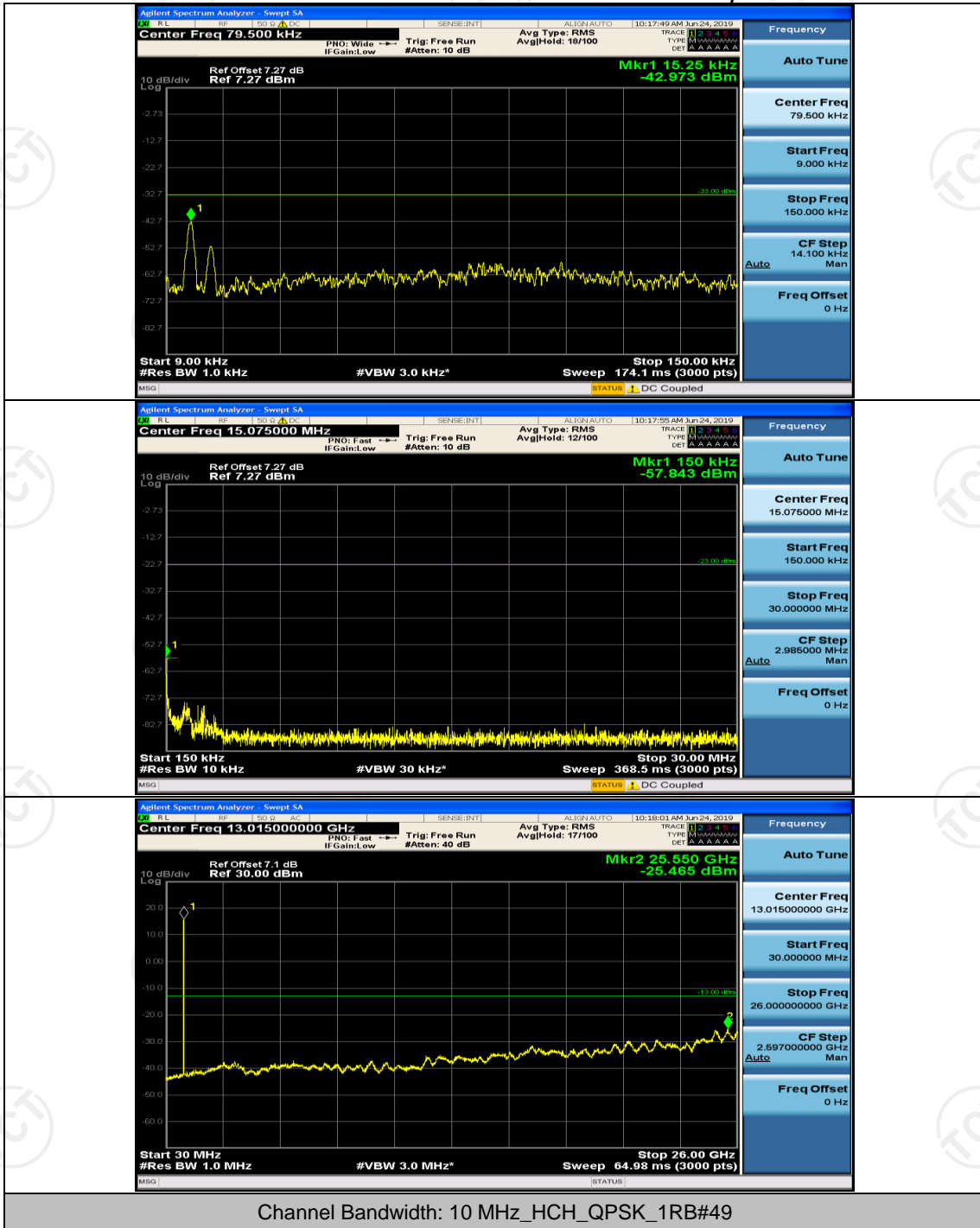


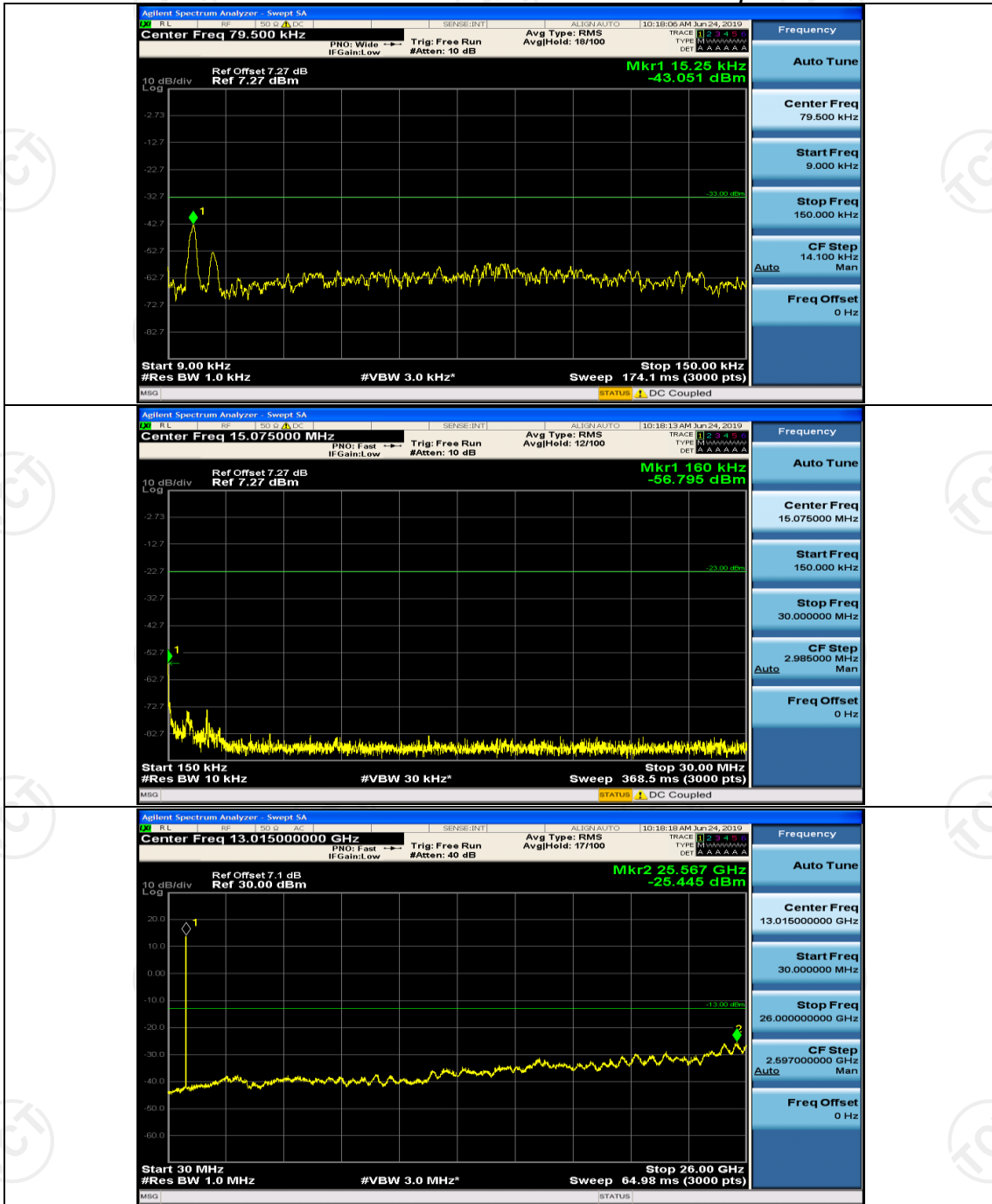


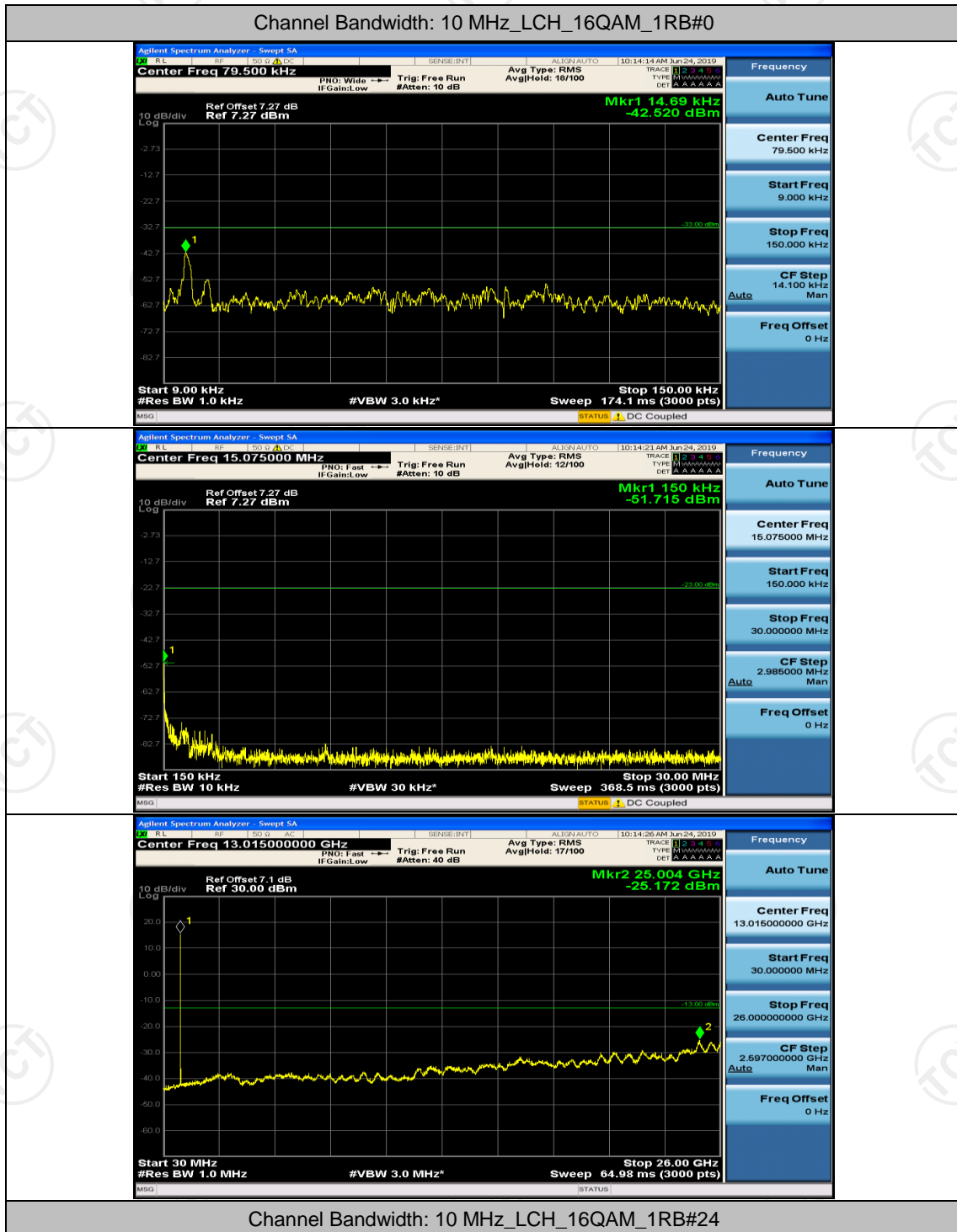


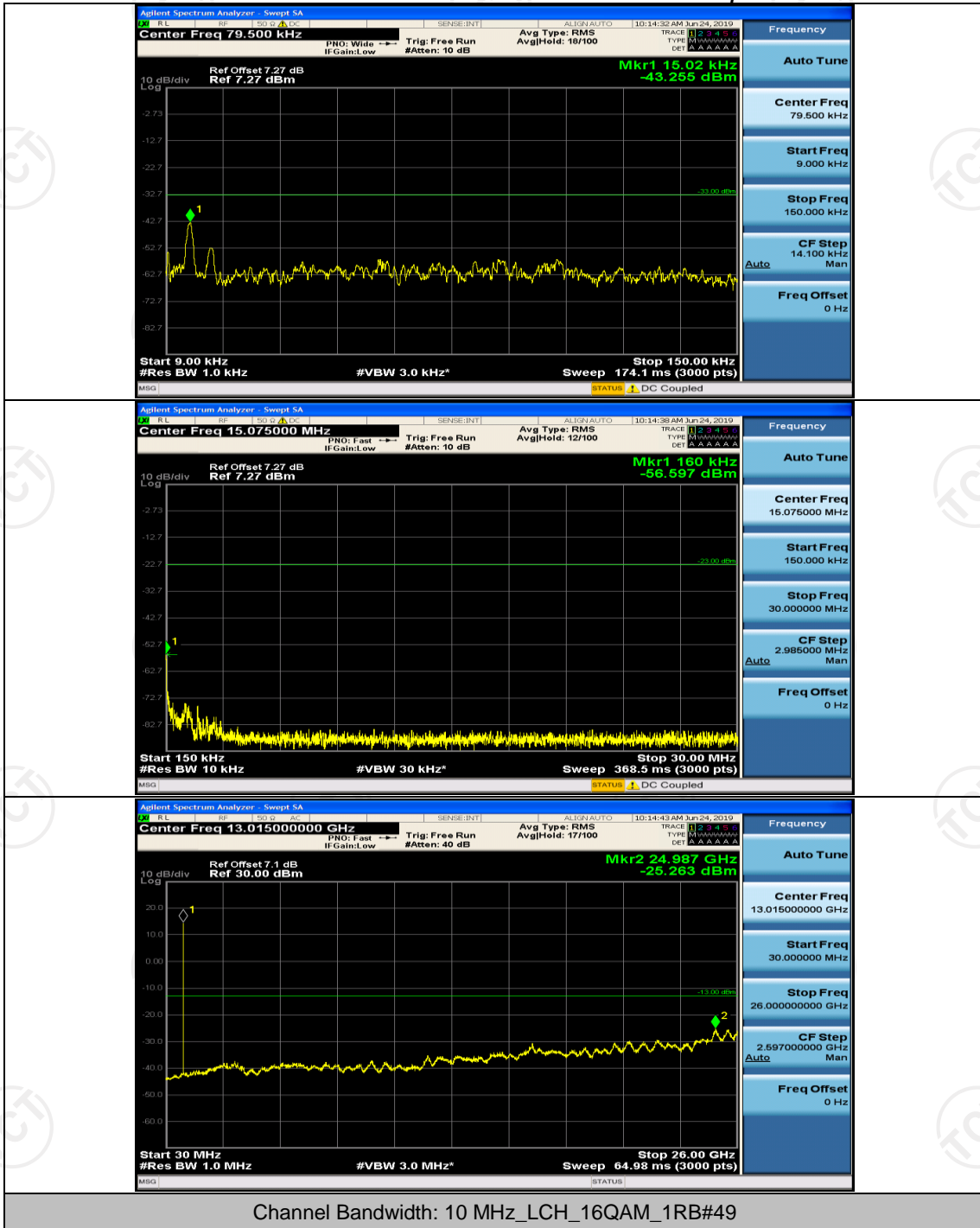


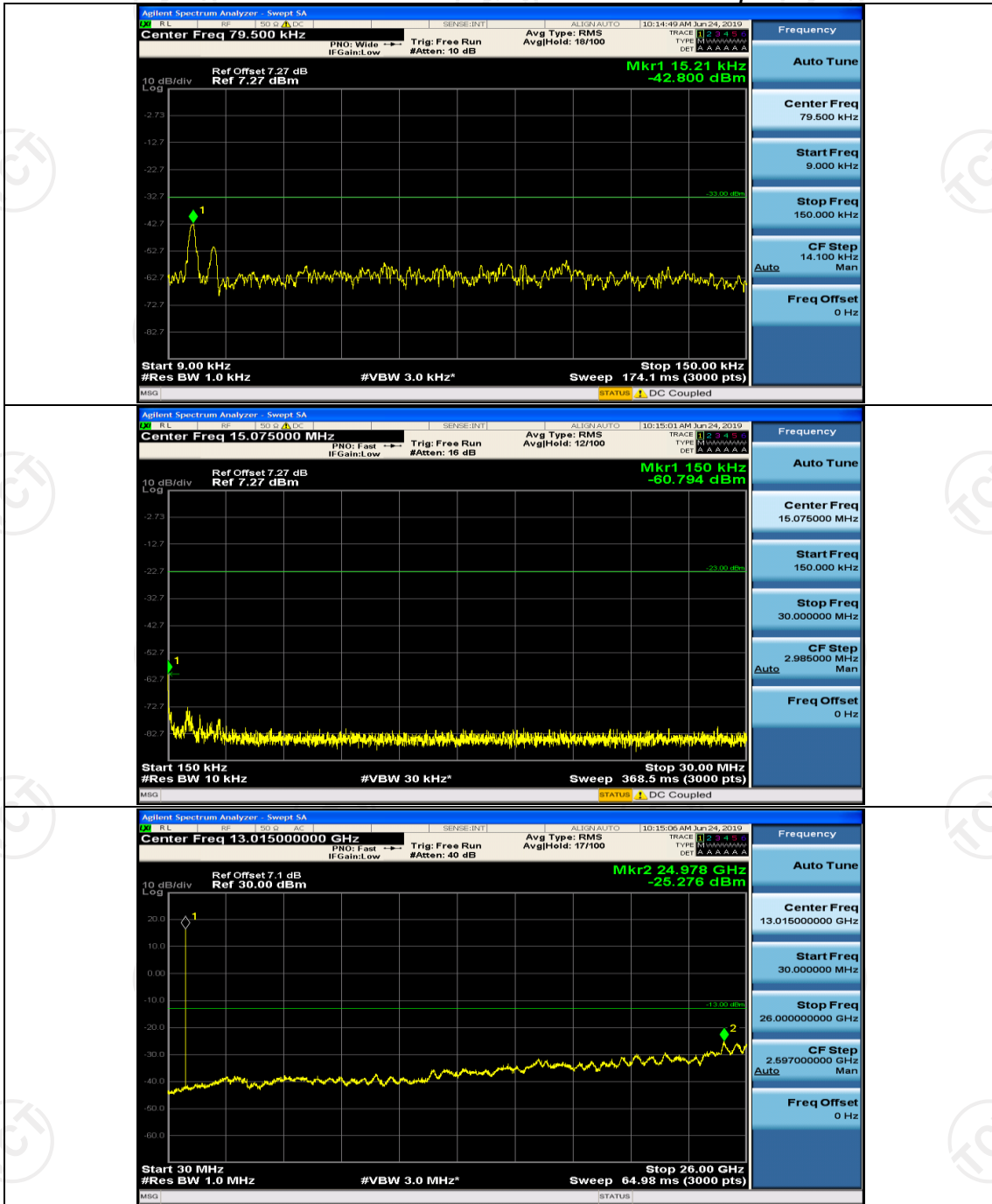


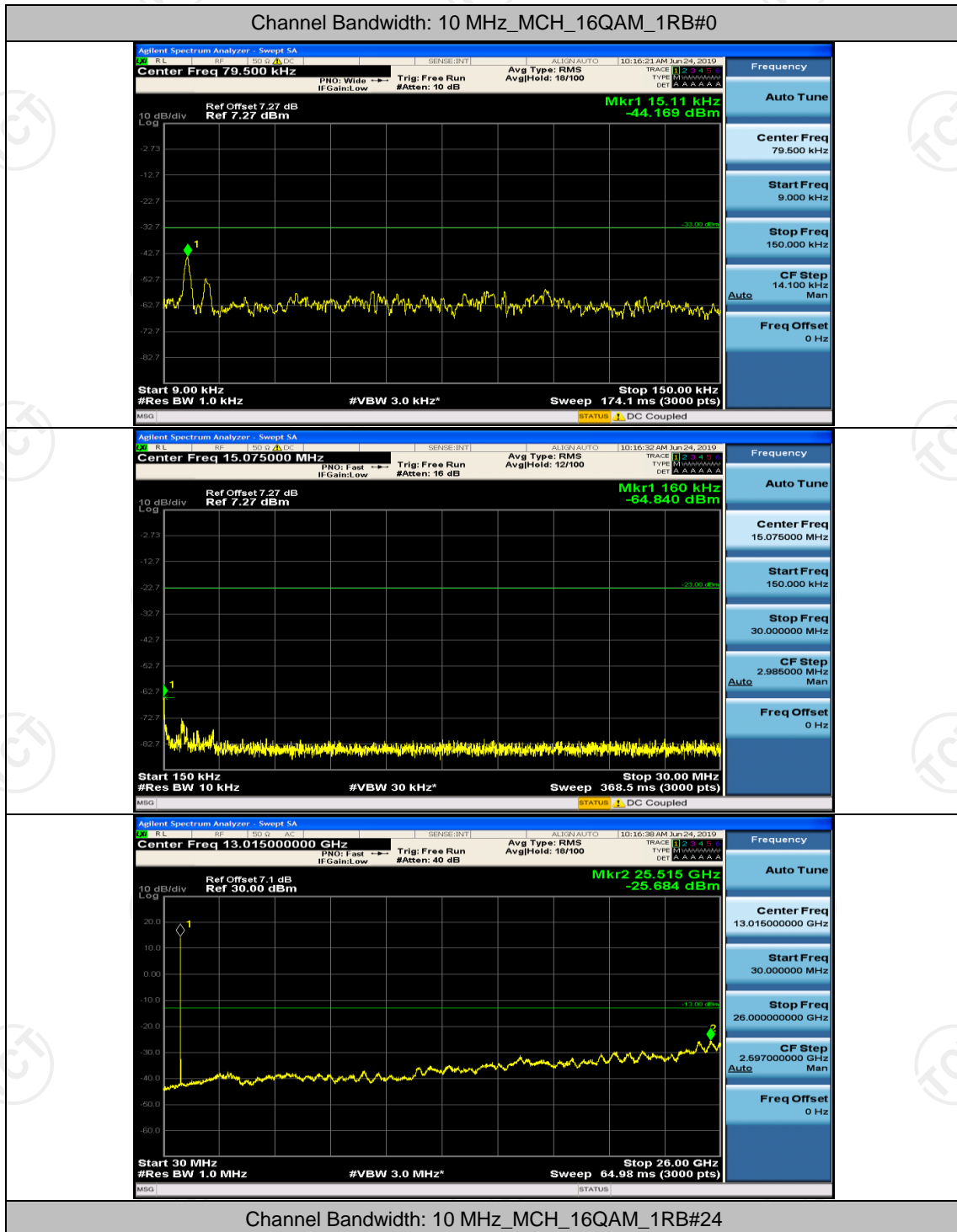


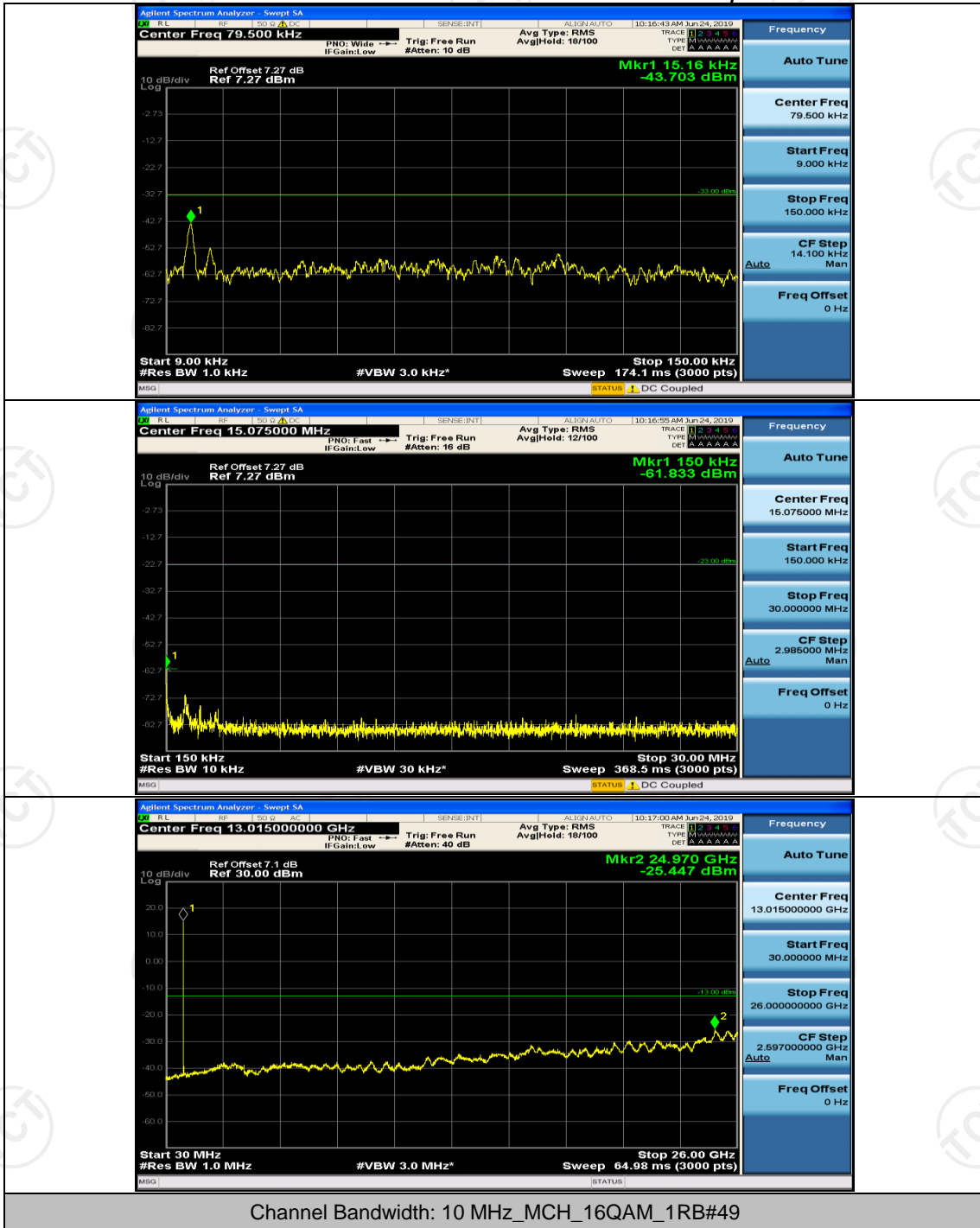


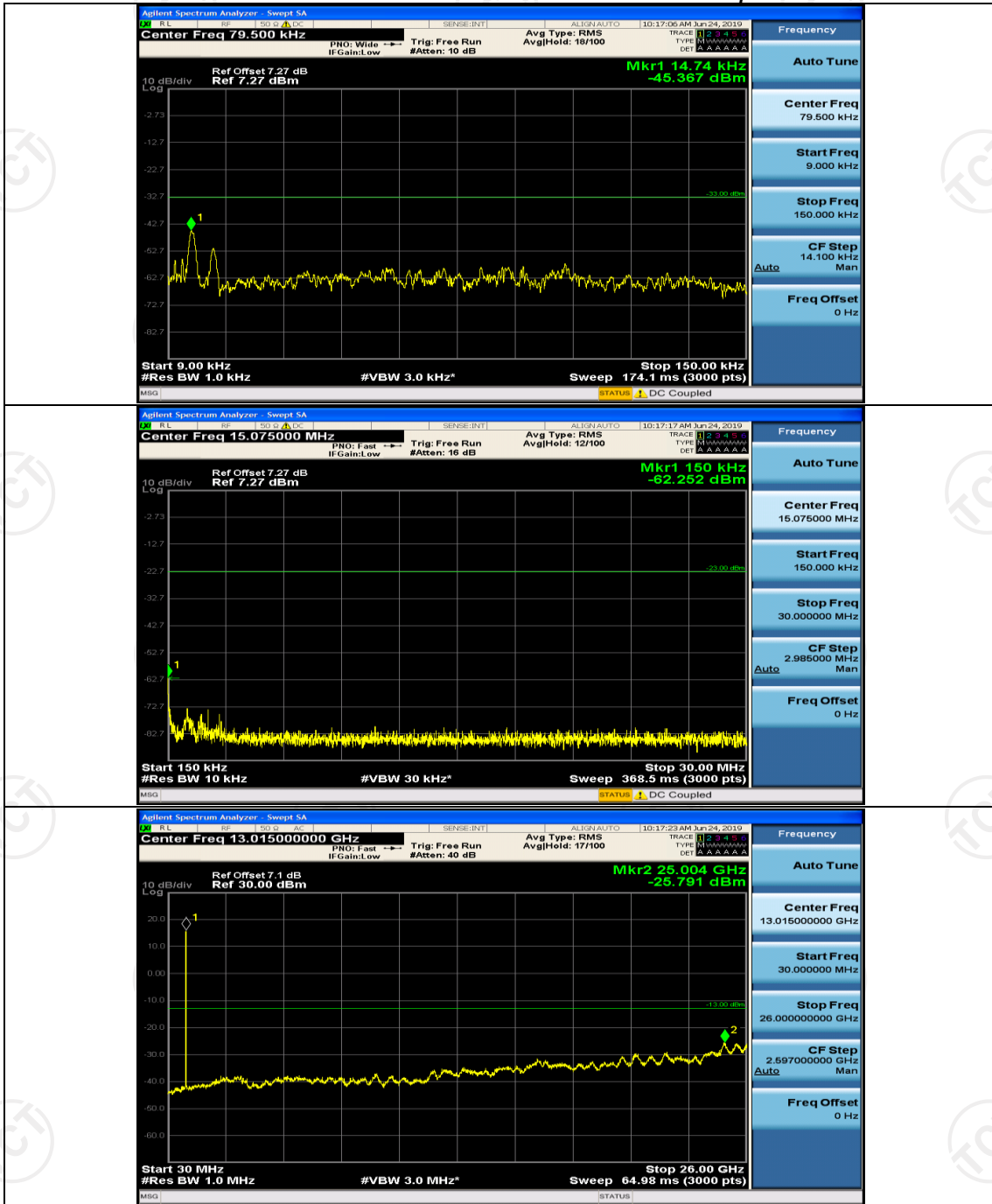




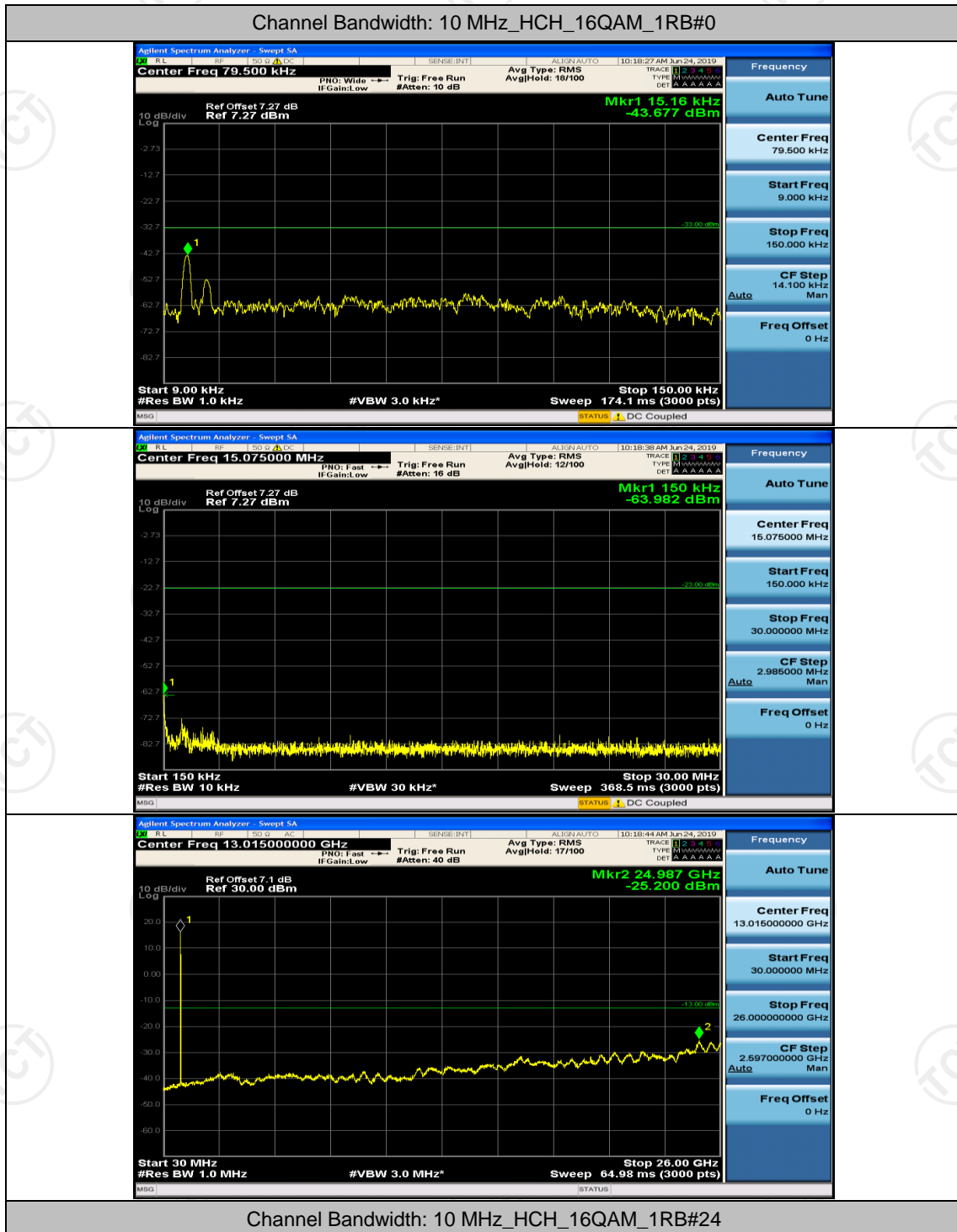


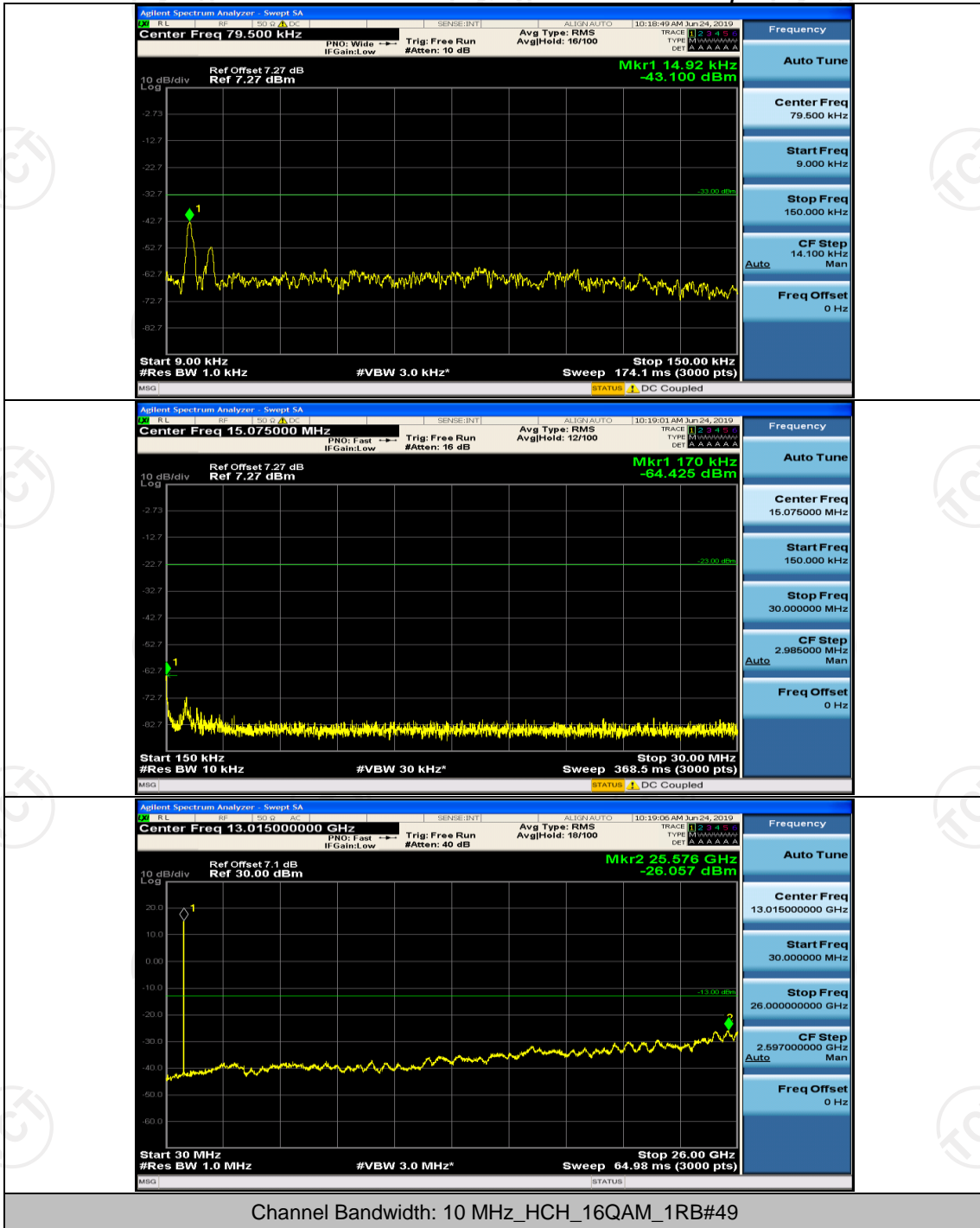


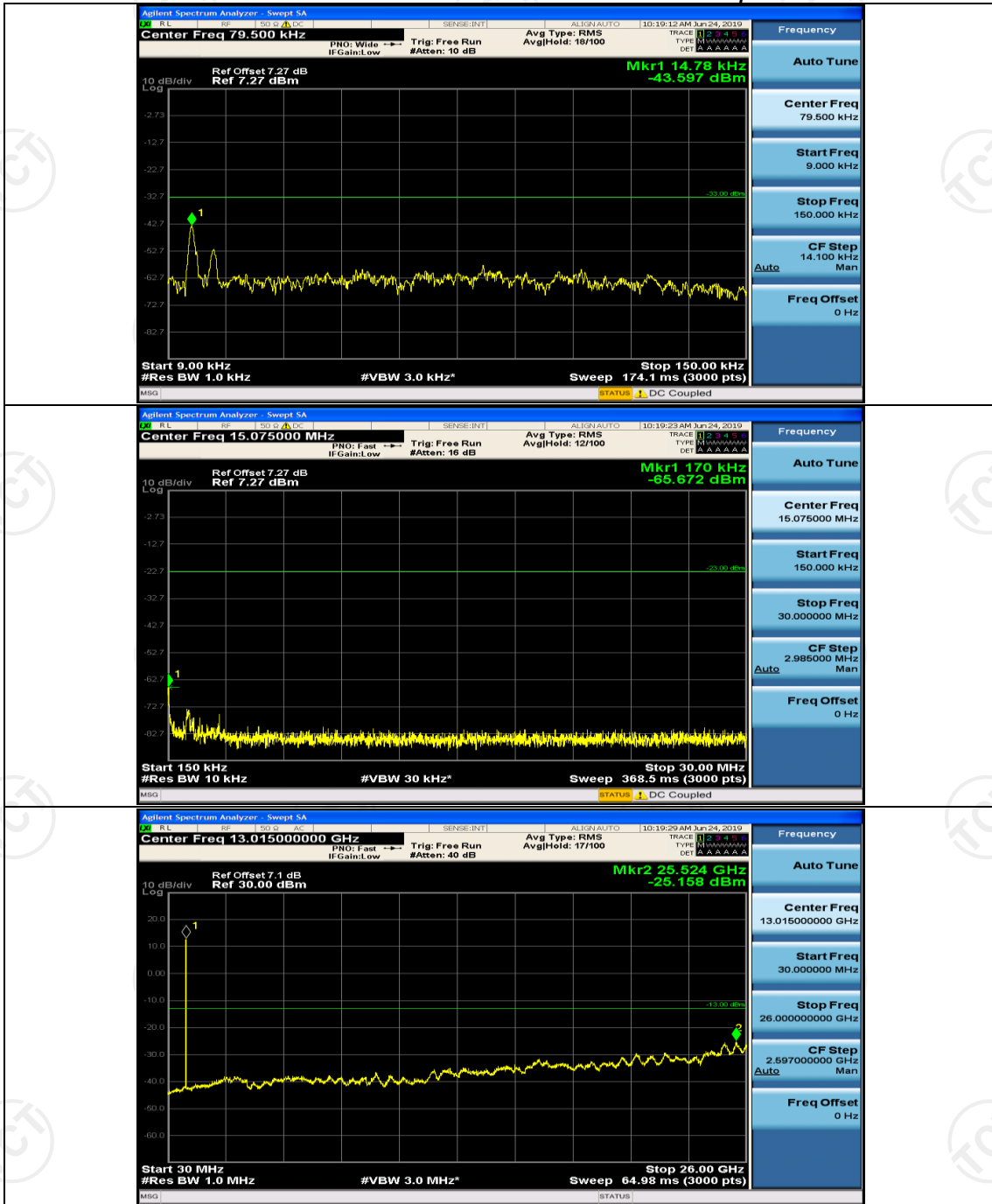












## Appendix F: Frequency Stability

### Test Result

Channel Bandwidth: 1.4 MHz

| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (ppm) | Limit (ppm) | Verdict |
|------------|---------|---------------|------------------|-----------------|-------------|---------|
| QPSK       | LCH     | VL            | TN               | -0.004473       | ± 2.5       | PASS    |
|            |         | VN            | TN               | -0.002463       | ± 2.5       | PASS    |
|            |         | VH            | TN               | -0.007832       | ± 2.5       | PASS    |
|            | MCH     | VL            | TN               | -0.005416       | ± 2.5       | PASS    |
|            |         | VN            | TN               | -0.003352       | ± 2.5       | PASS    |
|            |         | VH            | TN               | -0.005389       | ± 2.5       | PASS    |
|            | HCH     | VL            | TN               | -0.004751       | ± 2.5       | PASS    |
|            |         | VN            | TN               | -0.005194       | ± 2.5       | PASS    |
|            |         | VH            | TN               | -0.011393       | ± 2.5       | PASS    |
| 16QAM      | LCH     | VL            | TN               | -0.004157       | ± 2.5       | PASS    |
|            |         | VN            | TN               | -0.006591       | ± 2.5       | PASS    |
|            |         | VH            | TN               | -0.005284       | ± 2.5       | PASS    |
|            | MCH     | VL            | TN               | -0.006584       | ± 2.5       | PASS    |
|            |         | VN            | TN               | -0.012347       | ± 2.5       | PASS    |
|            |         | VH            | TN               | -0.009236       | ± 2.5       | PASS    |
|            | HCH     | VL            | TN               | -0.006434       | ± 2.5       | PASS    |
|            |         | VN            | TN               | -0.003828       | ± 2.5       | PASS    |
|            |         | VH            | TN               | -0.005406       | ± 2.5       | PASS    |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK       | LCH     | VN            | -30              | -0.003102       | ± 2.5       | PASS    |
|            |         | VN            | -20              | -0.009150       | ± 2.5       | PASS    |
|            |         | VN            | -10              | -0.008231       | ± 2.5       | PASS    |
|            |         | VN            | 0                | -0.006464       | ± 2.5       | PASS    |
|            |         | VN            | 10               | -0.002143       | ± 2.5       | PASS    |
|            |         | VN            | 20               | -0.002047       | ± 2.5       | PASS    |
|            |         | VN            | 30               | -0.016253       | ± 2.5       | PASS    |
|            |         | VN            | 40               | -0.005481       | ± 2.5       | PASS    |
|            |         | VN            | 50               | -0.008378       | ± 2.5       | PASS    |
|            | MCH     | VN            | -30              | -0.002565       | ± 2.5       | PASS    |
|            |         | VN            | -20              | -0.010962       | ± 2.5       | PASS    |
|            |         | VN            | -10              | -0.004805       | ± 2.5       | PASS    |
|            |         | VN            | 0                | -0.006156       | ± 2.5       | PASS    |
|            |         | VN            | 10               | -0.004034       | ± 2.5       | PASS    |
|            |         | VN            | 20               | -0.008619       | ± 2.5       | PASS    |
|            |         | VN            | 30               | -0.005507       | ± 2.5       | PASS    |
|            |         | VN            | 40               | -0.004532       | ± 2.5       | PASS    |
|            |         | VN            | 50               | -0.003266       | ± 2.5       | PASS    |

|     |       |     |           |           |           |       |      |
|-----|-------|-----|-----------|-----------|-----------|-------|------|
|     | HCH   | VN  | -30       | -0.004104 | ± 2.5     | PASS  |      |
|     |       | VN  | -20       | -0.008524 | ± 2.5     | PASS  |      |
|     |       | VN  | -10       | -0.005553 | ± 2.5     | PASS  |      |
|     |       | VN  | 0         | -0.015158 | ± 2.5     | PASS  |      |
|     |       | VN  | 10        | -0.007292 | ± 2.5     | PASS  |      |
|     |       | VN  | 20        | -0.006627 | ± 2.5     | PASS  |      |
|     |       | VN  | 30        | -0.005750 | ± 2.5     | PASS  |      |
|     |       | VN  | 40        | -0.005194 | ± 2.5     | PASS  |      |
|     |       | VN  | 50        | -0.007656 | ± 2.5     | PASS  |      |
|     | 16QAM | LCH | VN        | -30       | -0.007226 | ± 2.5 | PASS |
|     |       |     | VN        | -20       | -0.007971 | ± 2.5 | PASS |
|     |       |     | VN        | -10       | -0.00759  | ± 2.5 | PASS |
|     |       |     | VN        | 0         | -0.007018 | ± 2.5 | PASS |
|     |       |     | VN        | 10        | -0.003240 | ± 2.5 | PASS |
|     |       |     | VN        | 20        | -0.005533 | ± 2.5 | PASS |
|     |       |     | VN        | 30        | -0.004631 | ± 2.5 | PASS |
|     |       |     | VN        | 40        | -0.011535 | ± 2.5 | PASS |
|     |       |     | VN        | 50        | -0.004735 | ± 2.5 | PASS |
| MCH |       | VN  | -30       | -0.007935 | ± 2.5     | PASS  |      |
|     |       | VN  | -20       | -0.00985  | ± 2.5     | PASS  |      |
|     |       | VN  | -10       | -0.007182 | ± 2.5     | PASS  |      |
|     |       | VN  | 0         | -0.006481 | ± 2.5     | PASS  |      |
|     |       | VN  | 10        | -0.006630 | ± 2.5     | PASS  |      |
|     |       | VN  | 20        | -0.007559 | ± 2.5     | PASS  |      |
|     |       | VN  | 30        | -0.006789 | ± 2.5     | PASS  |      |
|     |       | VN  | 40        | -0.007234 | ± 2.5     | PASS  |      |
|     |       | VN  | 50        | -0.007165 | ± 2.5     | PASS  |      |
| HCH | VN    | -30 | -0.009604 | ± 2.5     | PASS      |       |      |
|     | VN    | -20 | -0.009047 | ± 2.5     | PASS      |       |      |
|     | VN    | -10 | -0.011022 | ± 2.5     | PASS      |       |      |
|     | VN    | 0   | -0.008997 | ± 2.5     | PASS      |       |      |
|     | VN    | 10  | -0.003541 | ± 2.5     | PASS      |       |      |
|     | VN    | 20  | -0.000185 | ± 2.5     | PASS      |       |      |
|     | VN    | 30  | -0.008145 | ± 2.5     | PASS      |       |      |
|     | VN    | 40  | -0.004907 | ± 2.5     | PASS      |       |      |
|     | VN    | 50  | -0.007774 | ± 2.5     | PASS      |       |      |