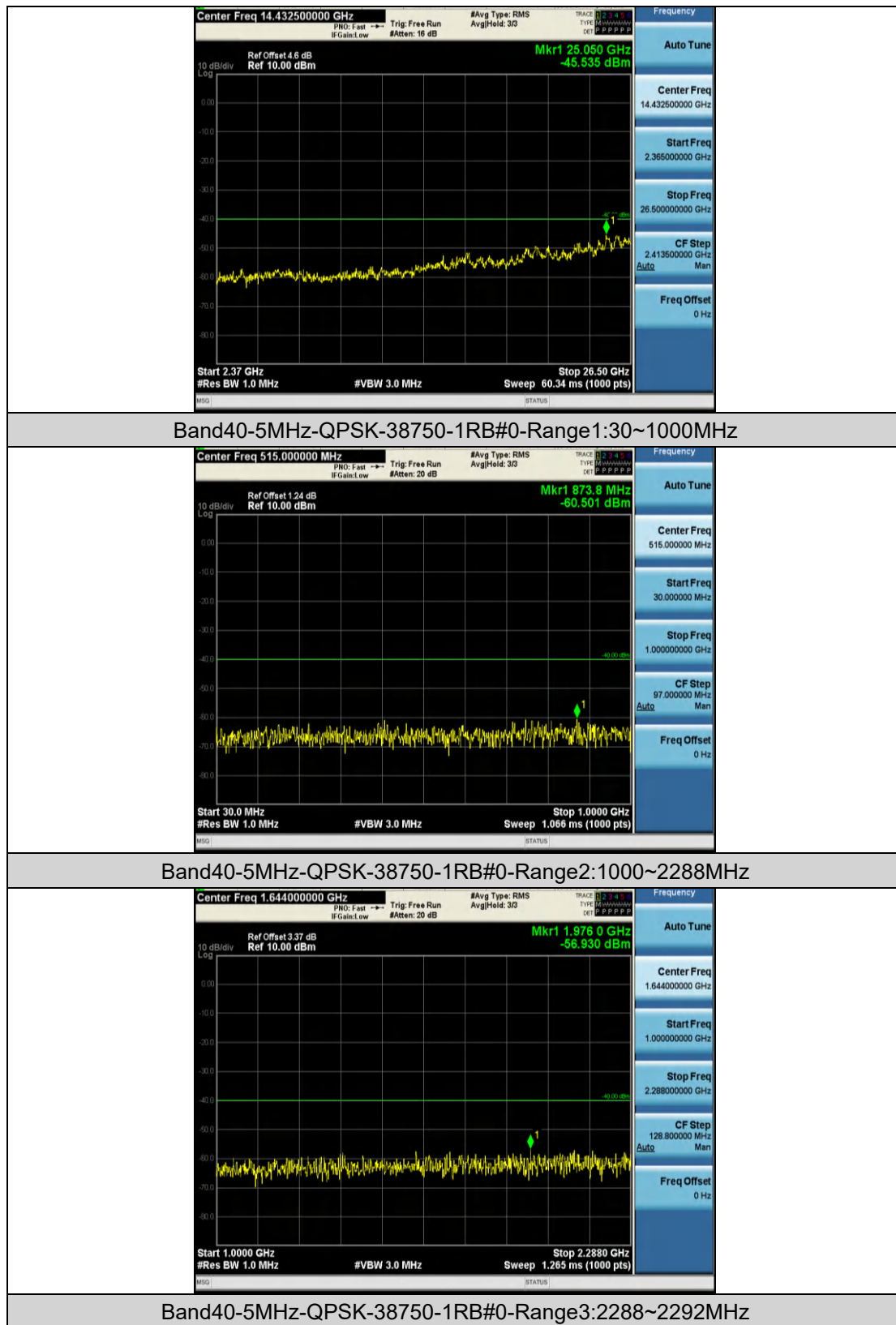
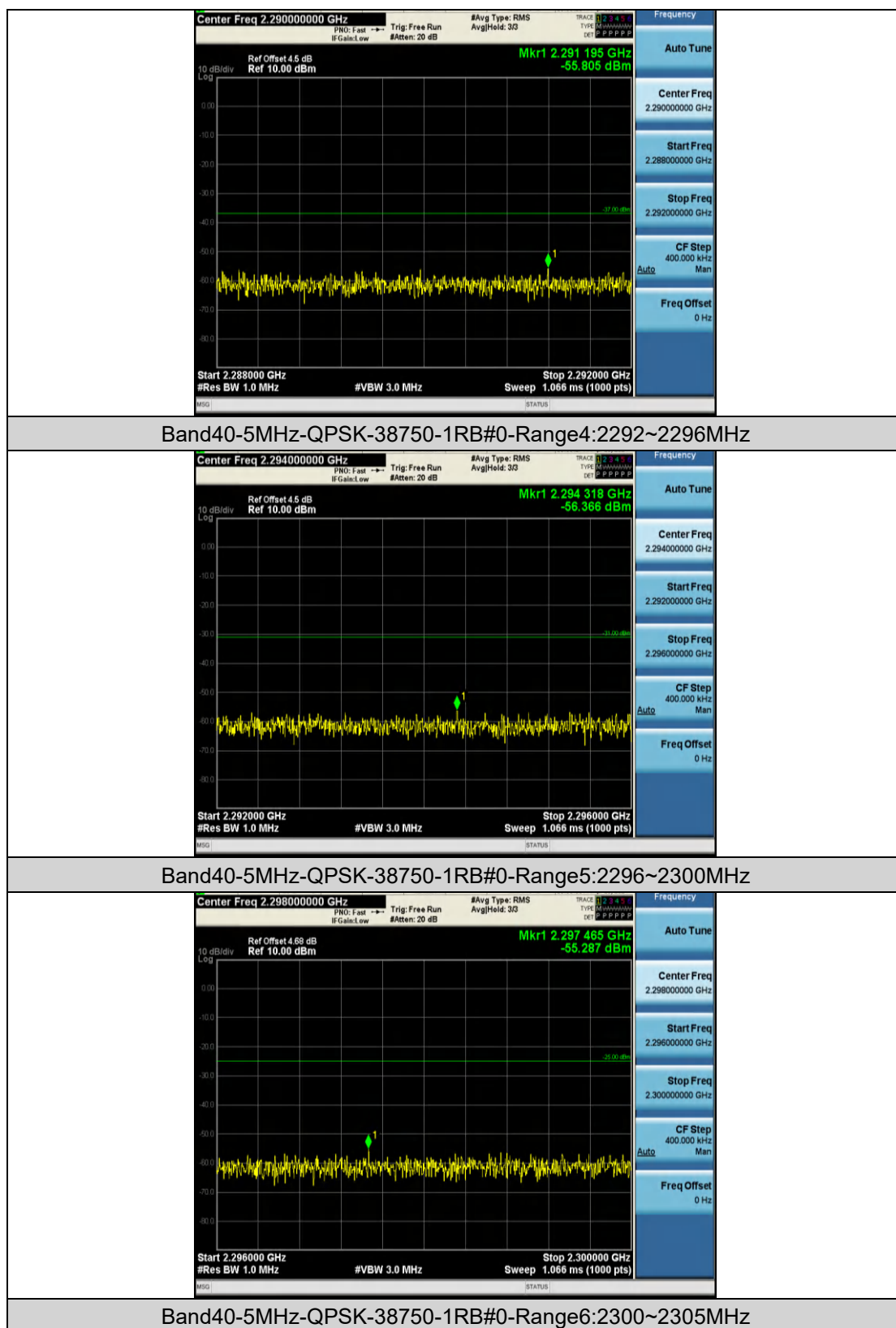
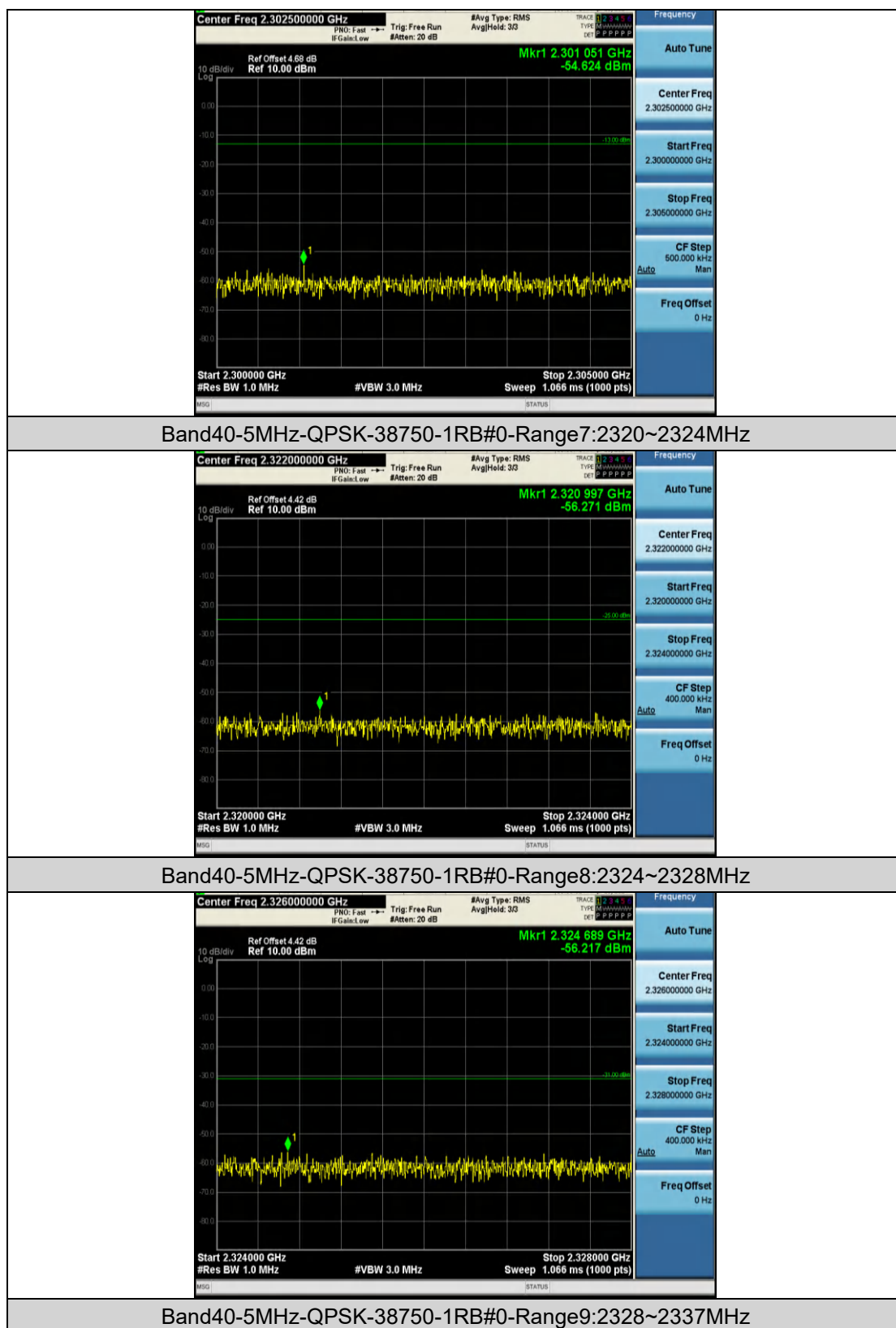
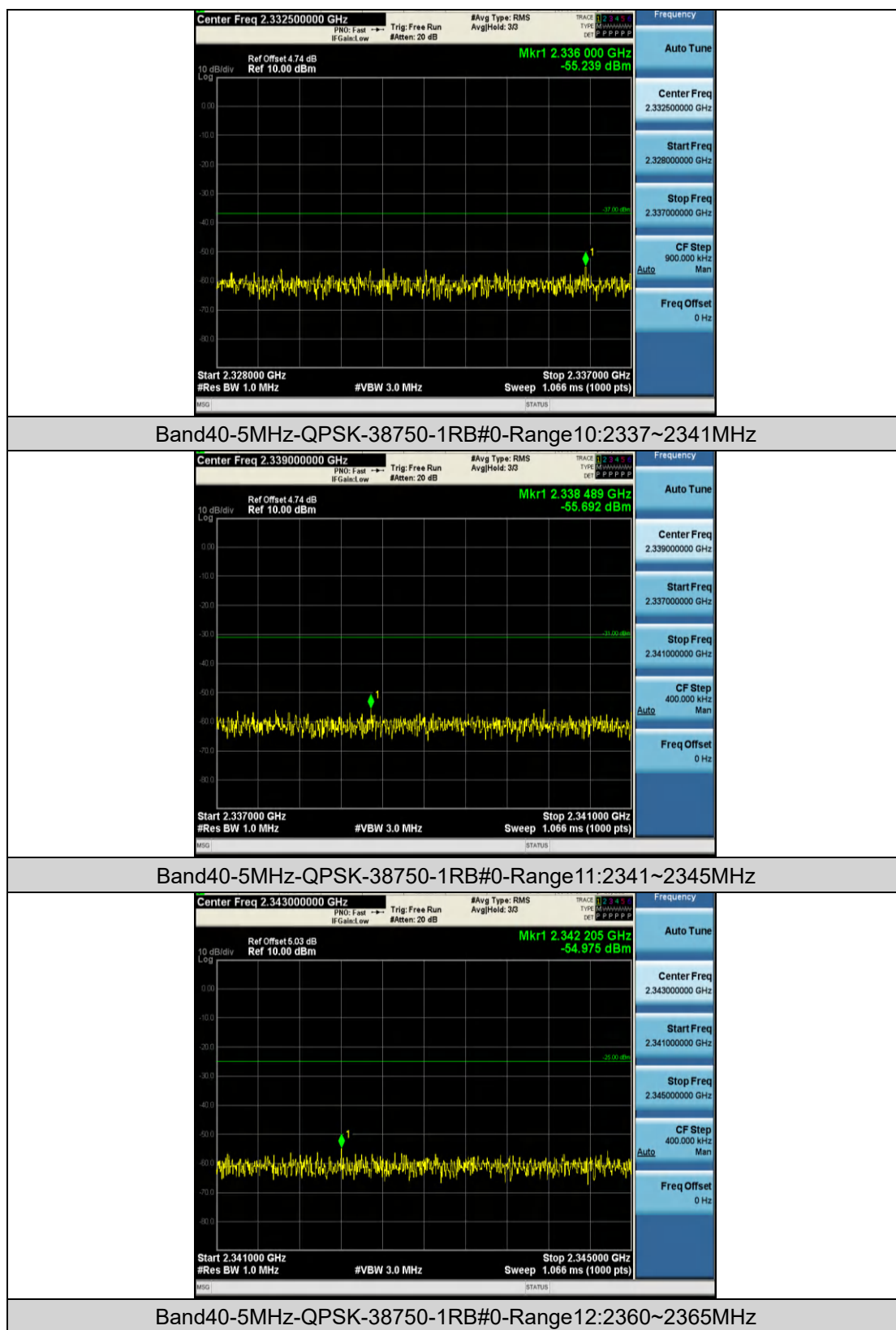
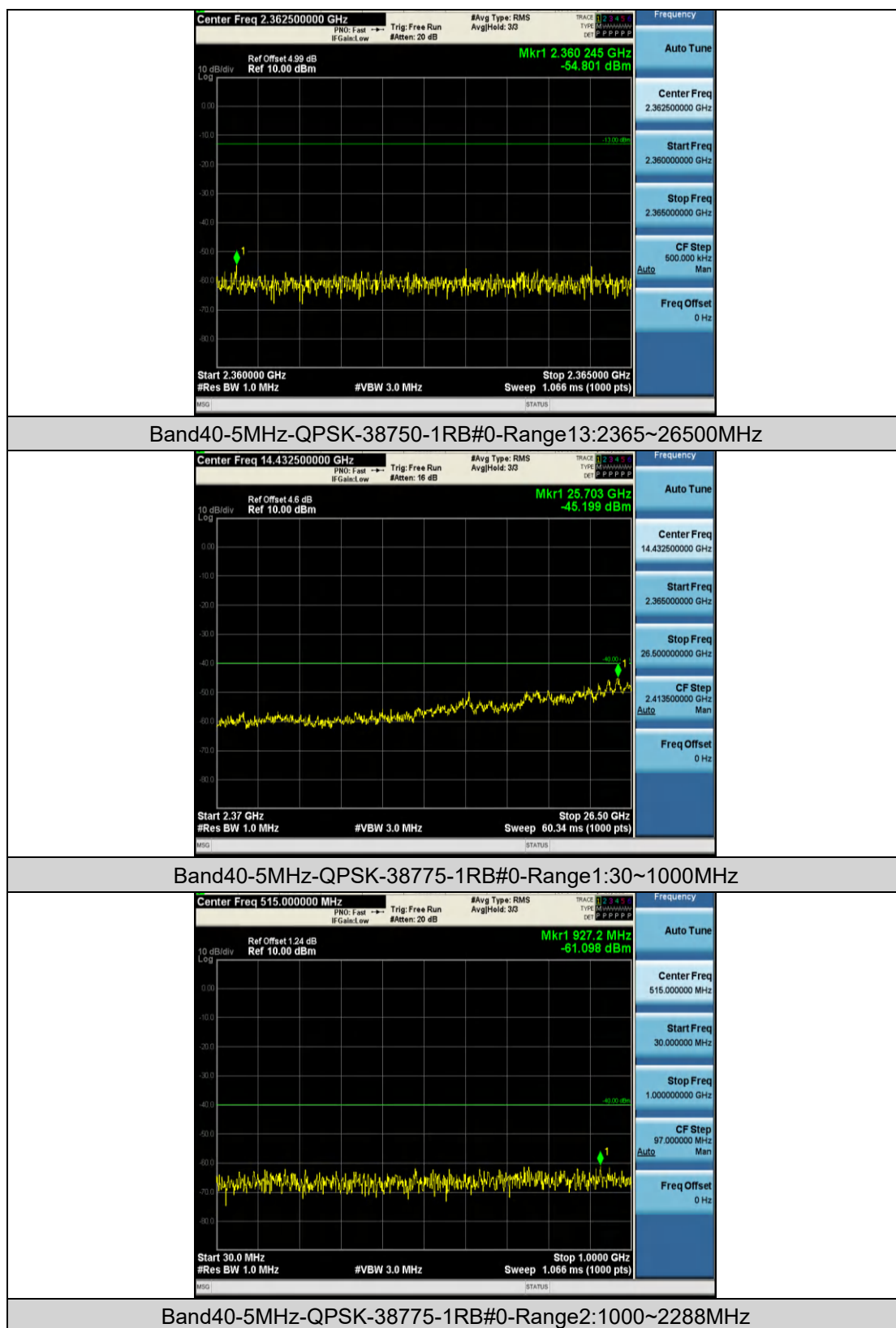


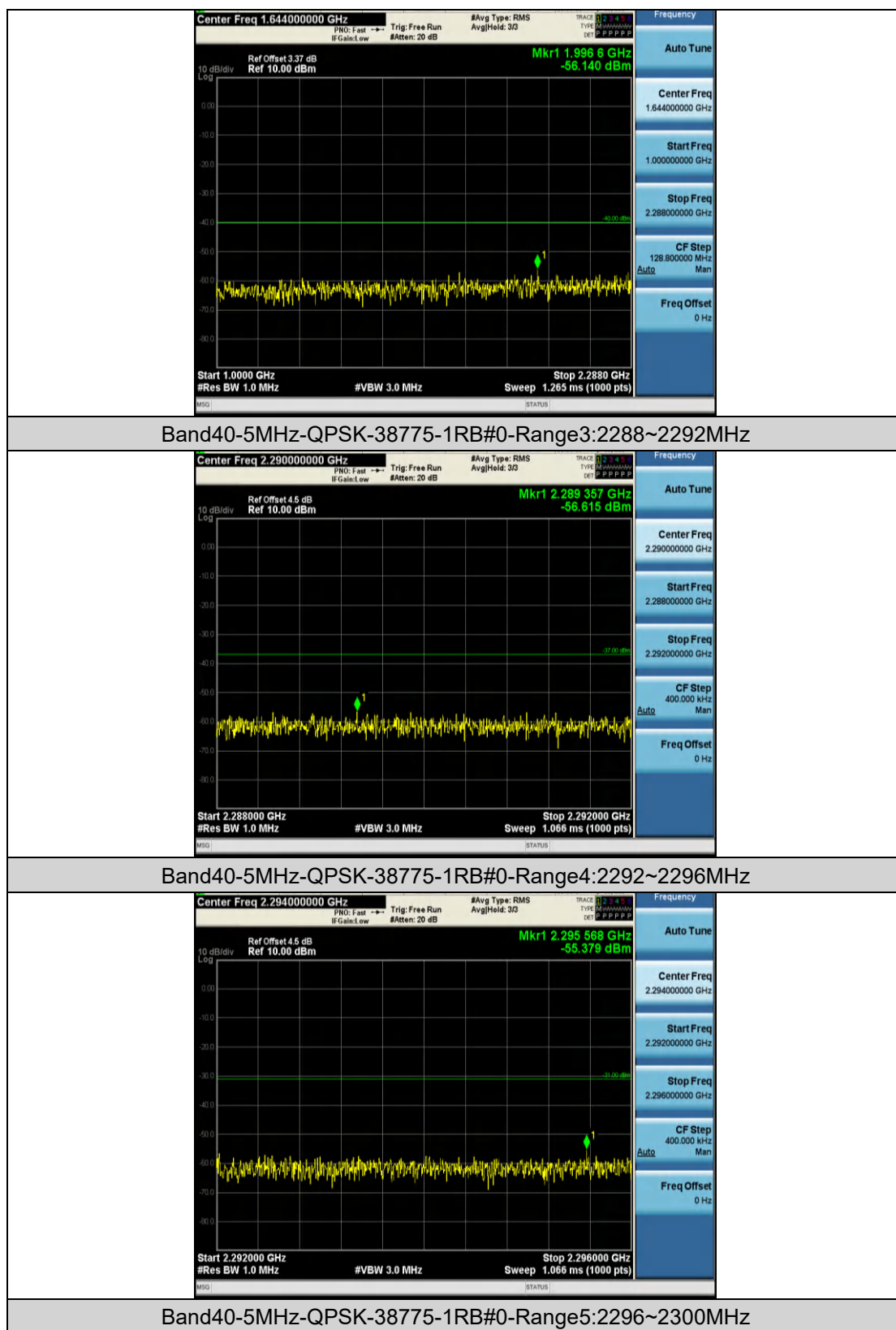




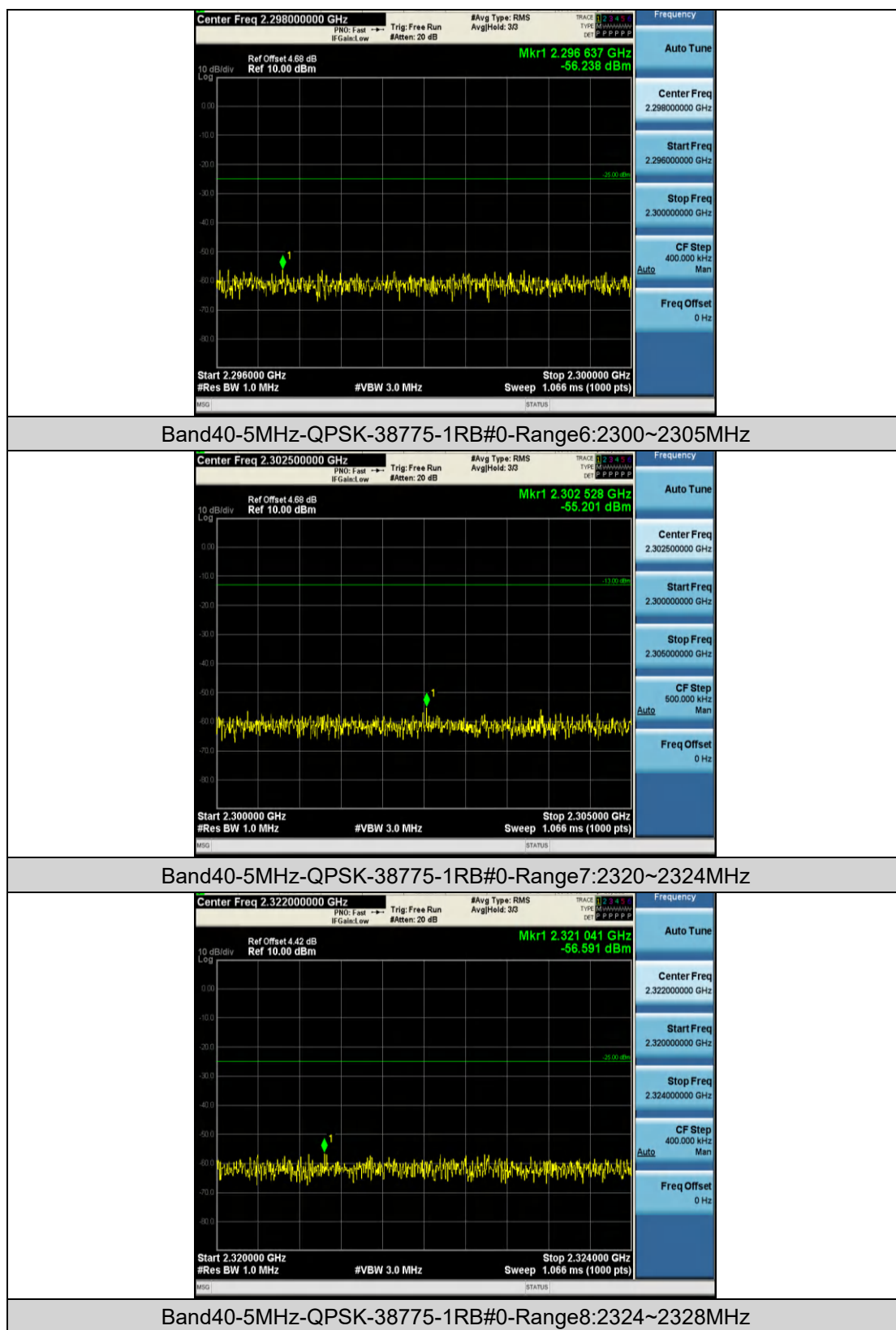


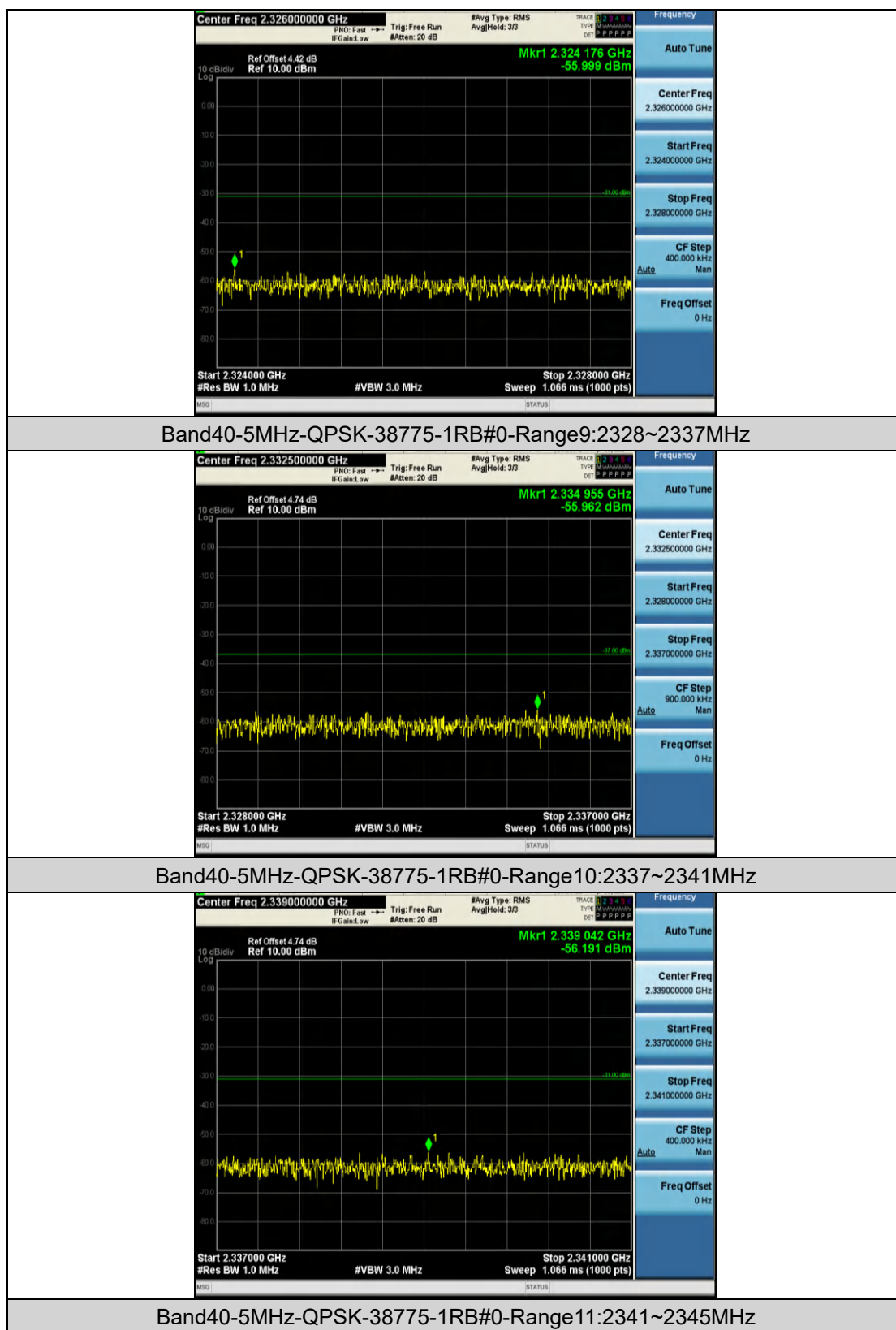




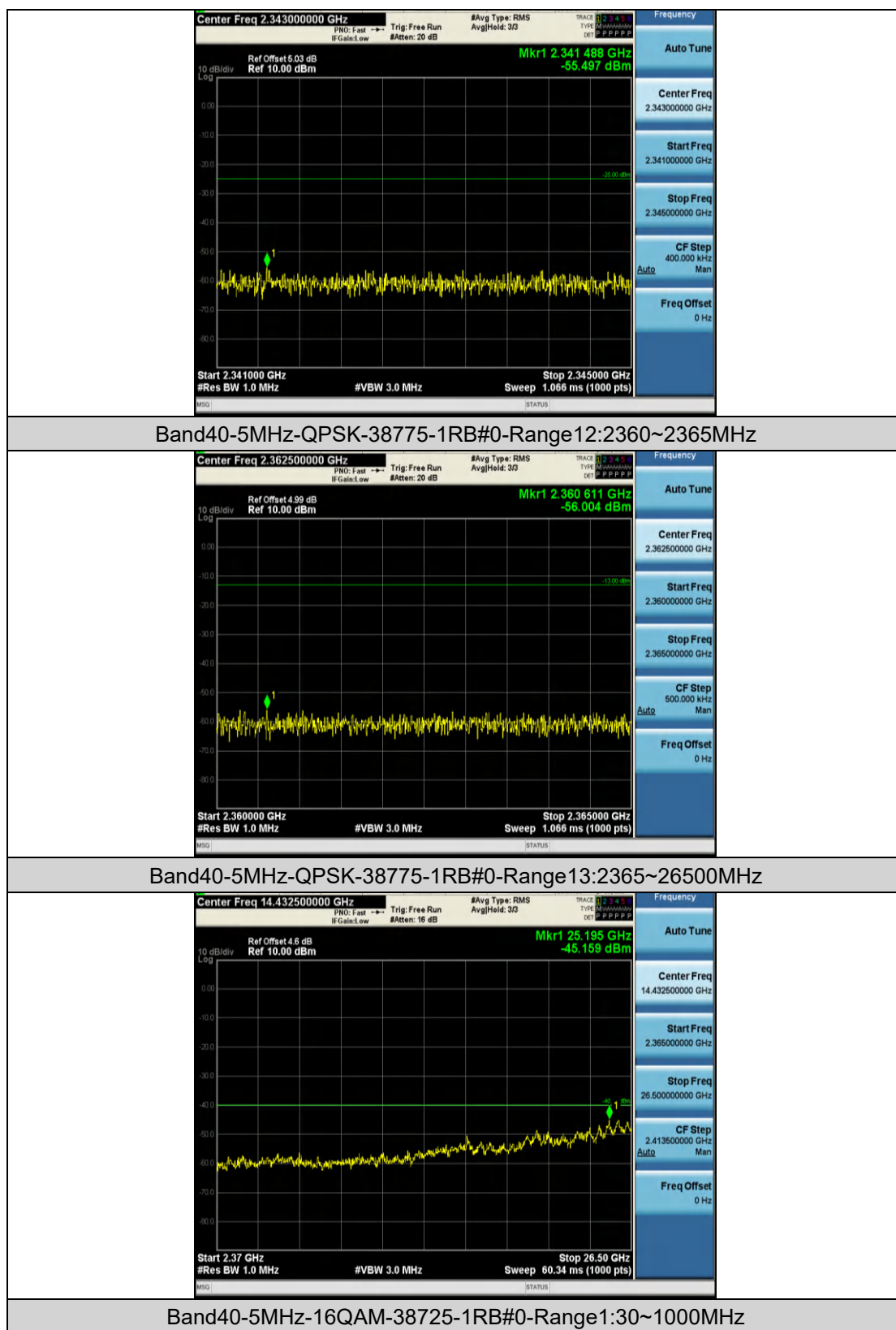


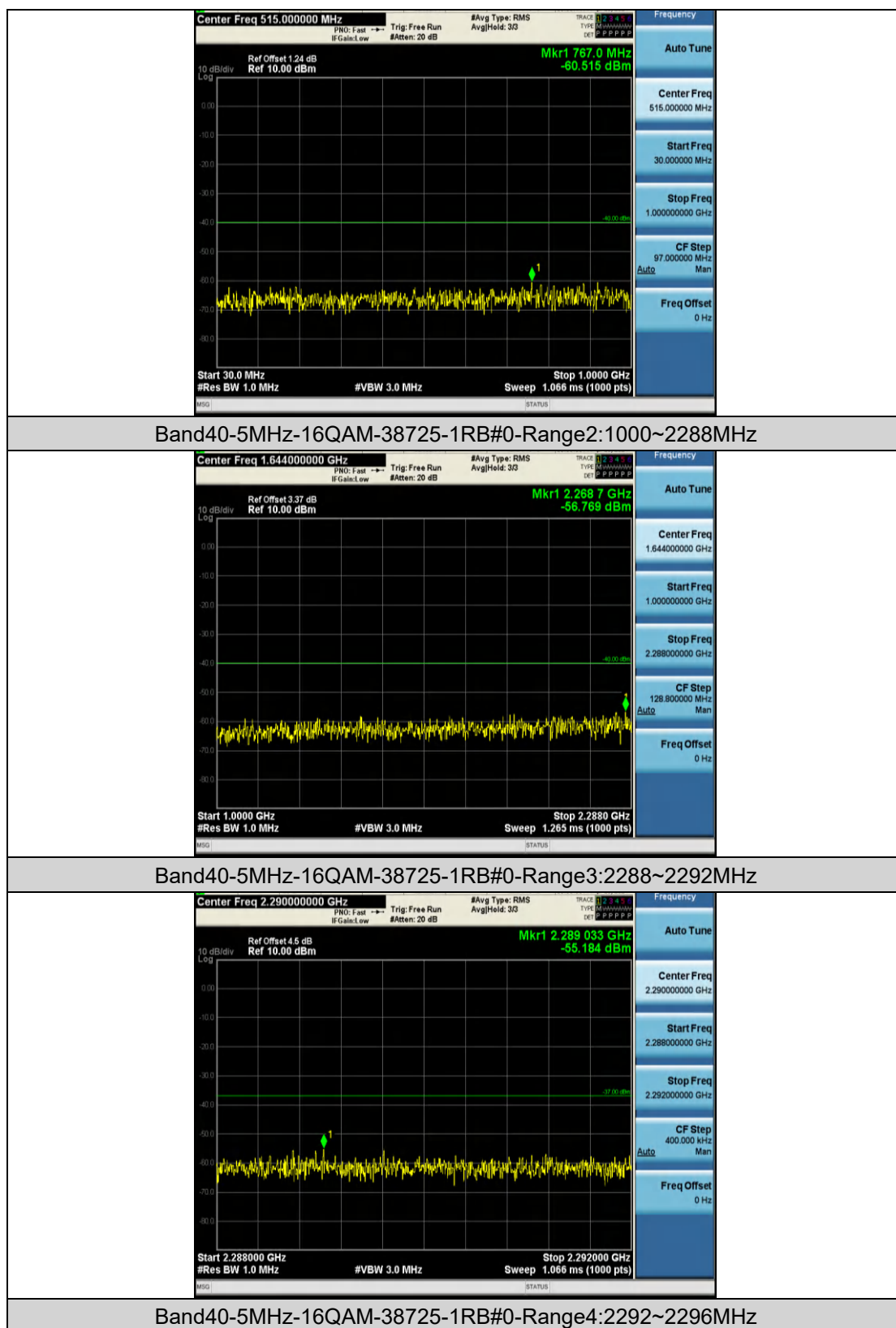


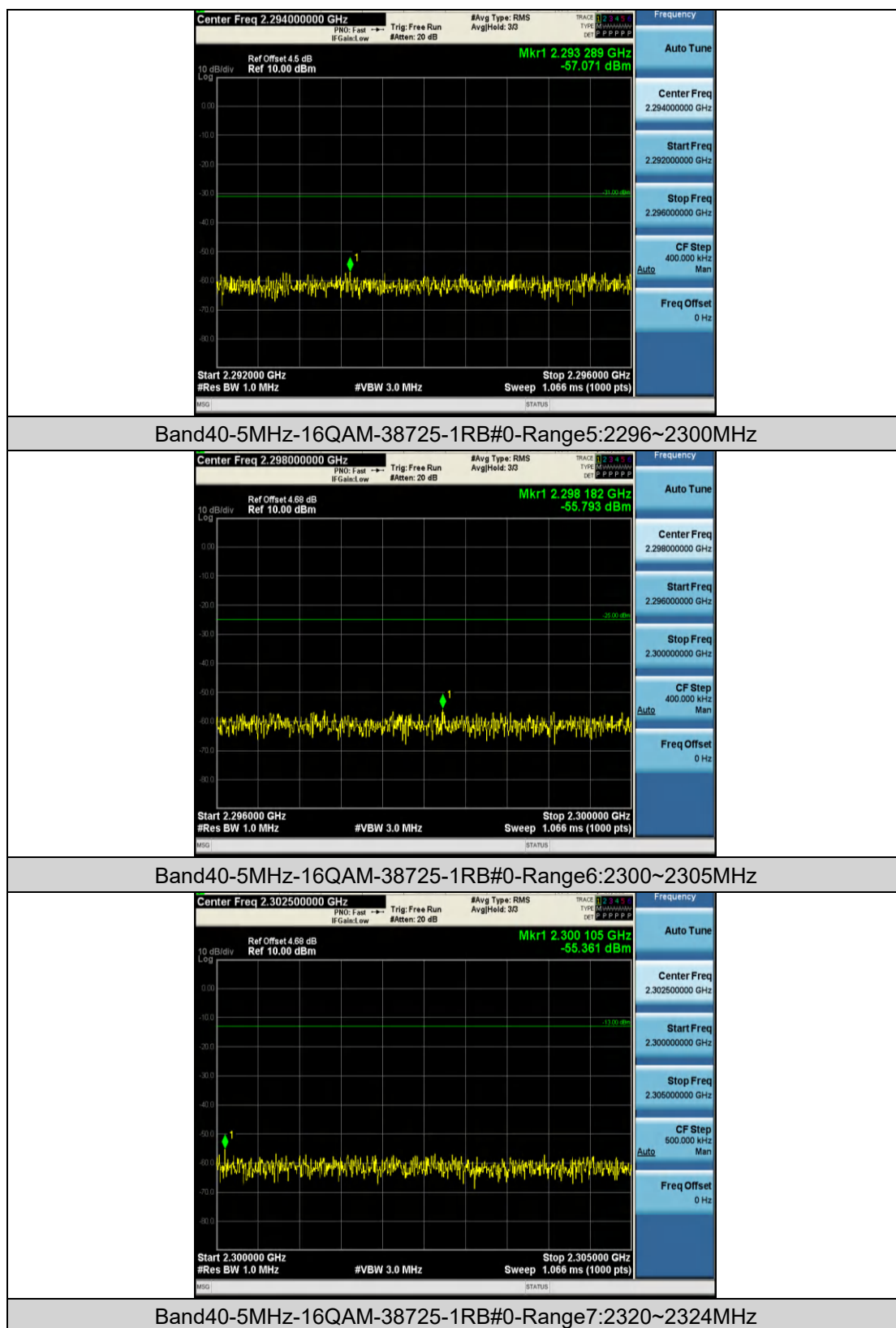


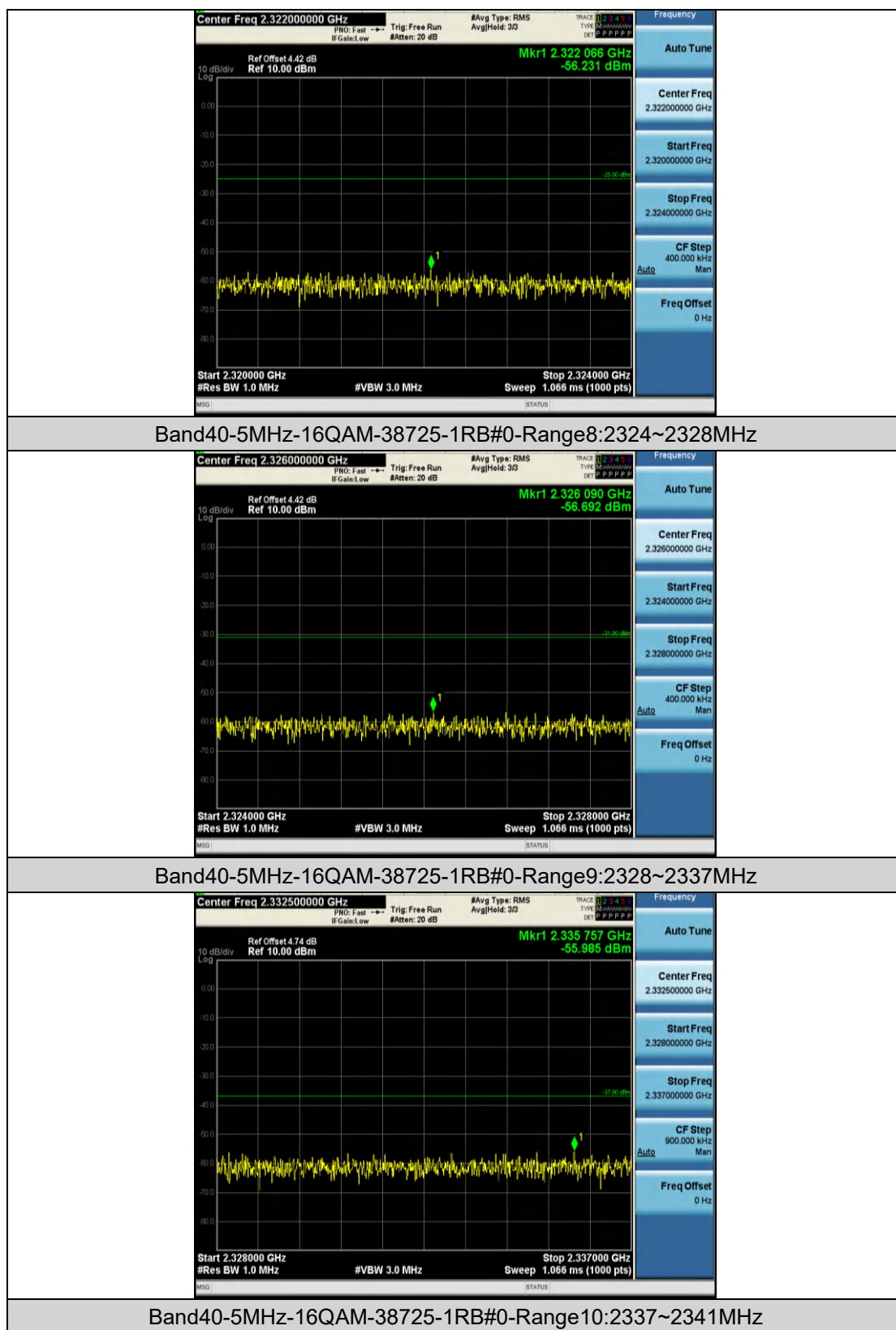


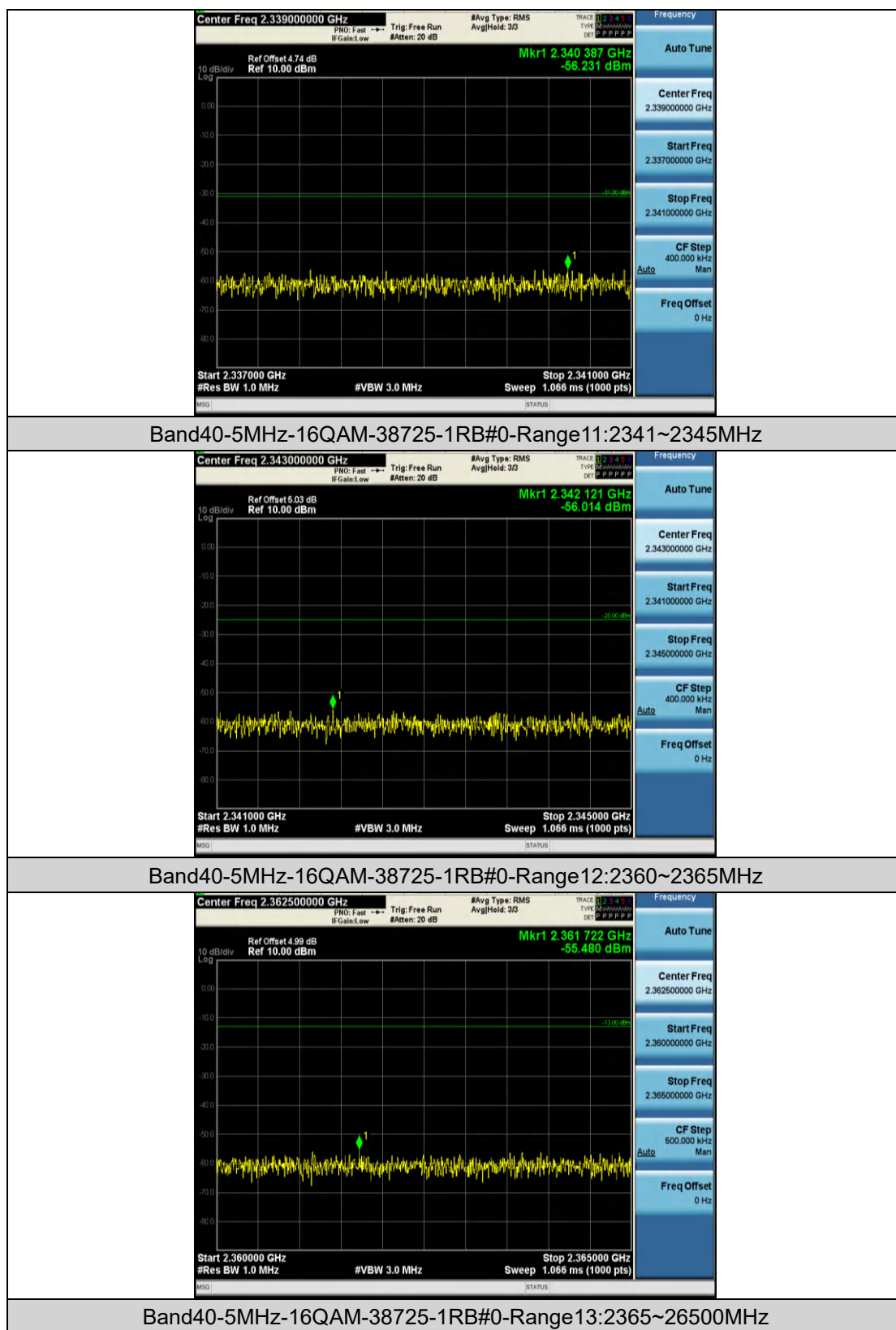


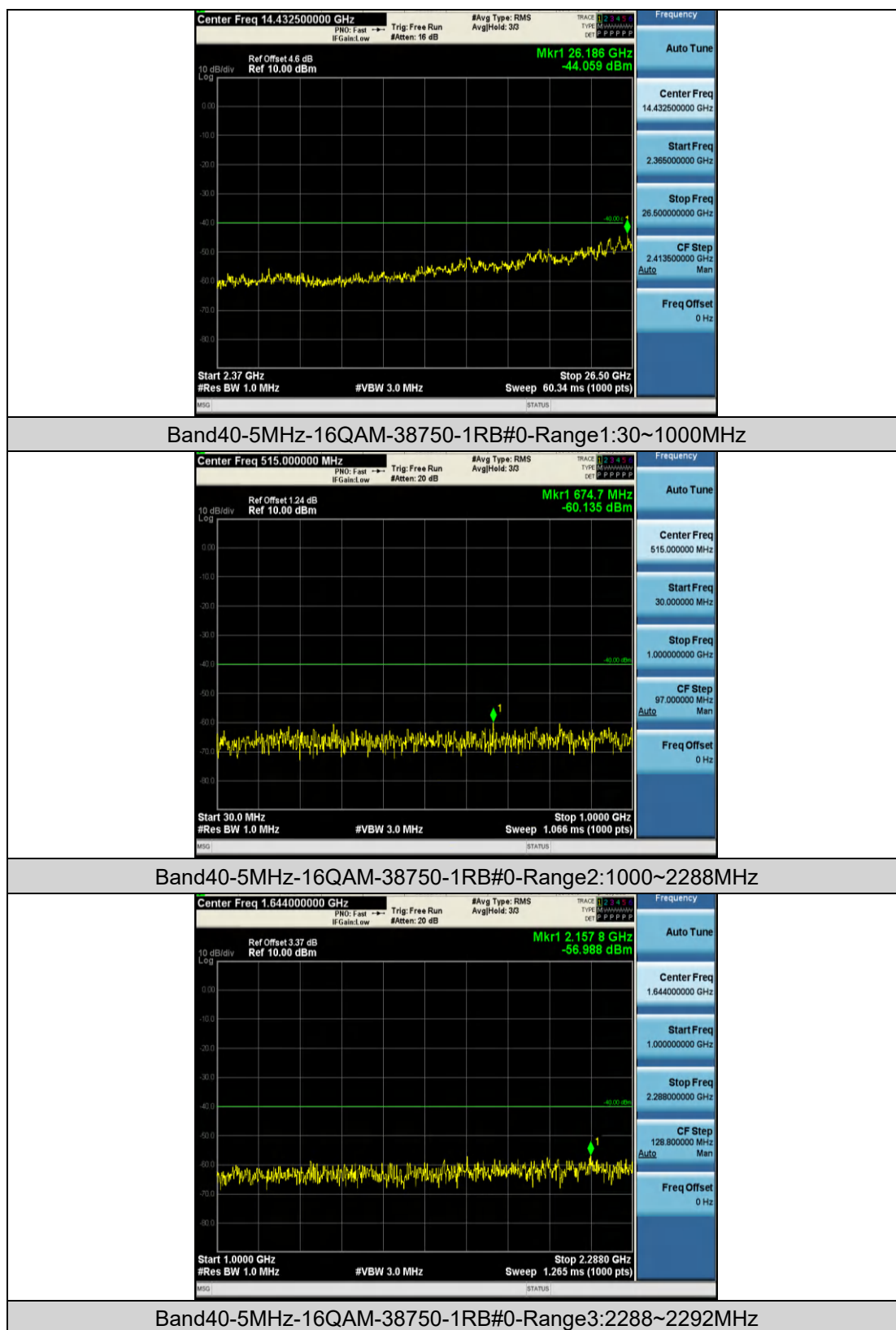




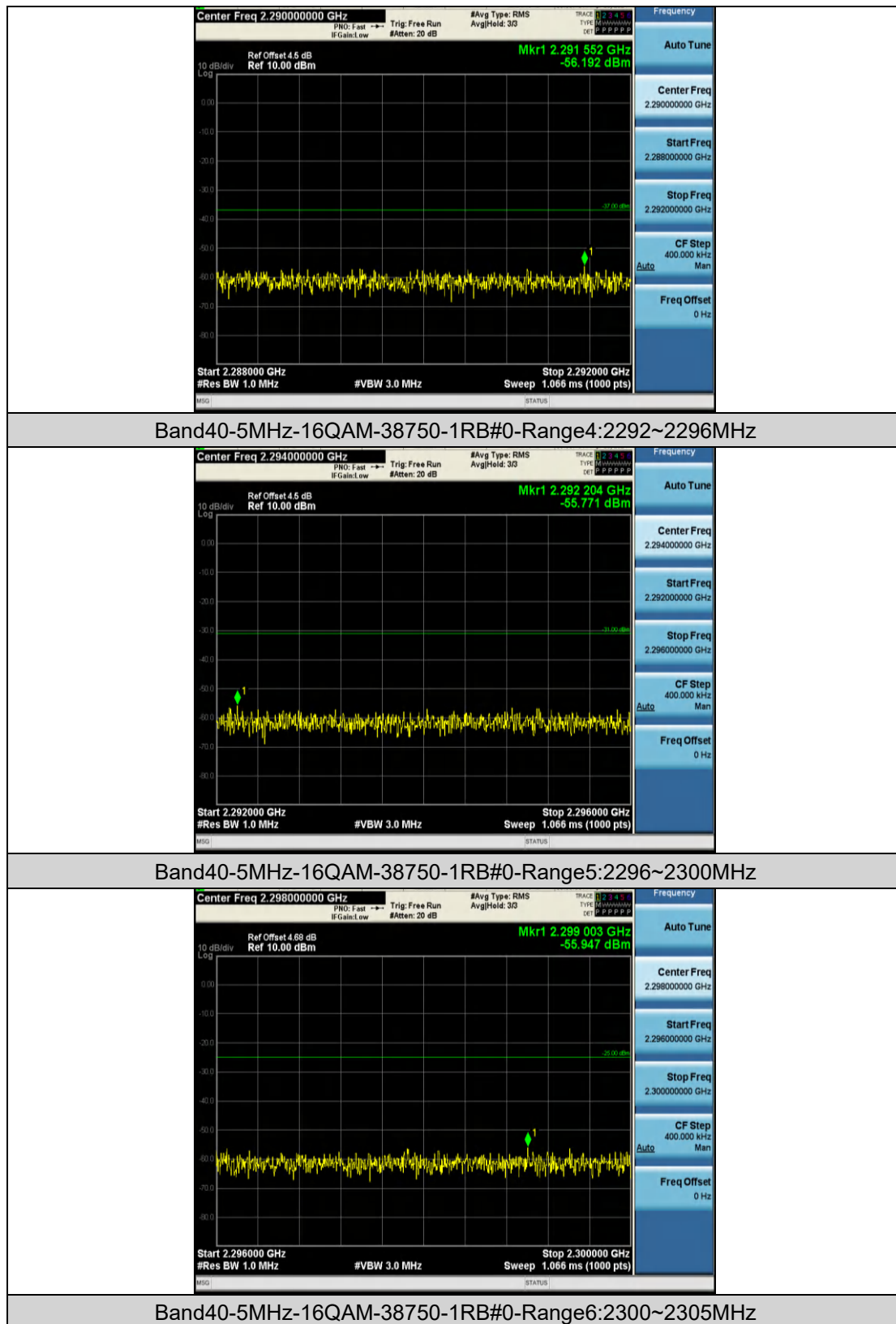


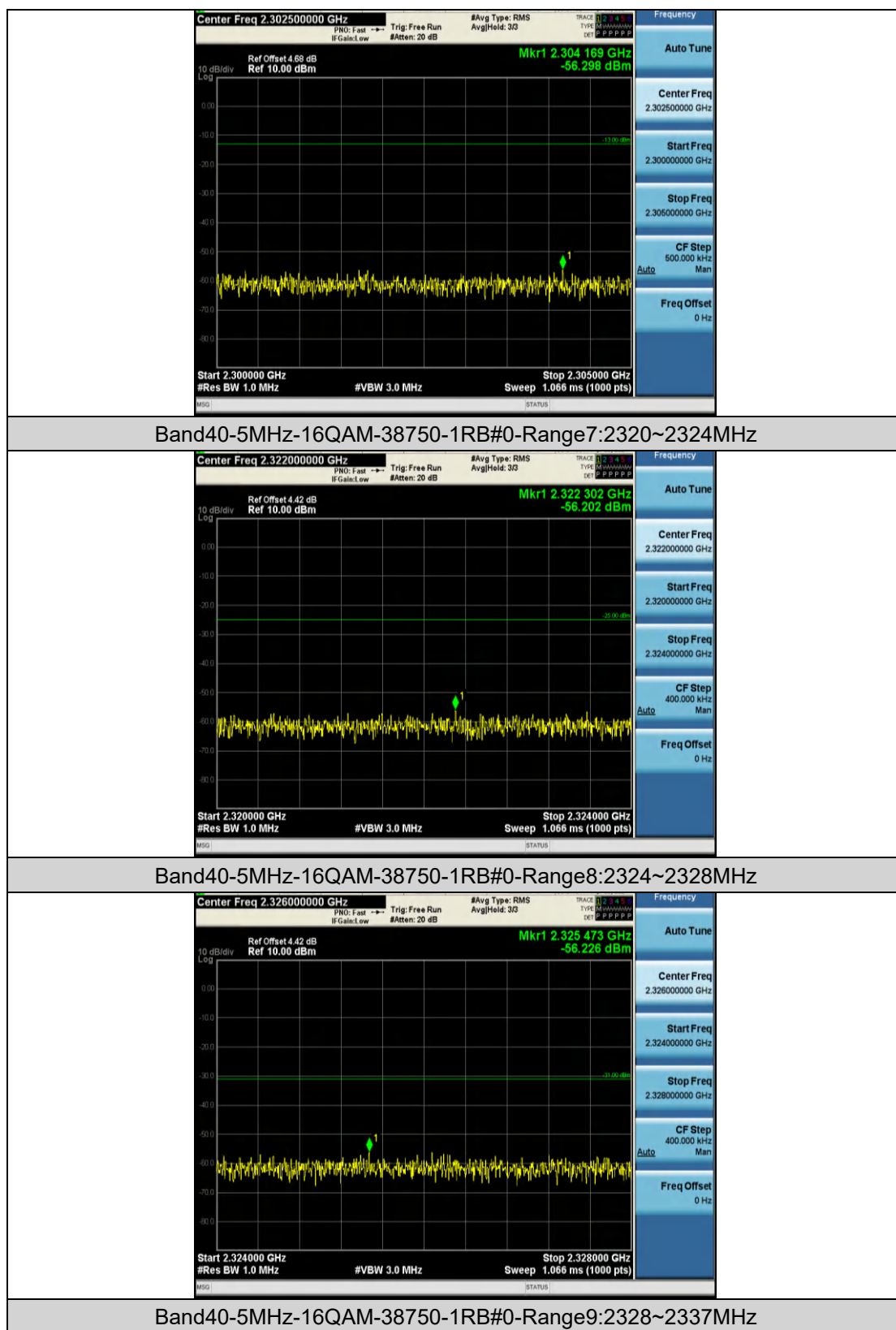


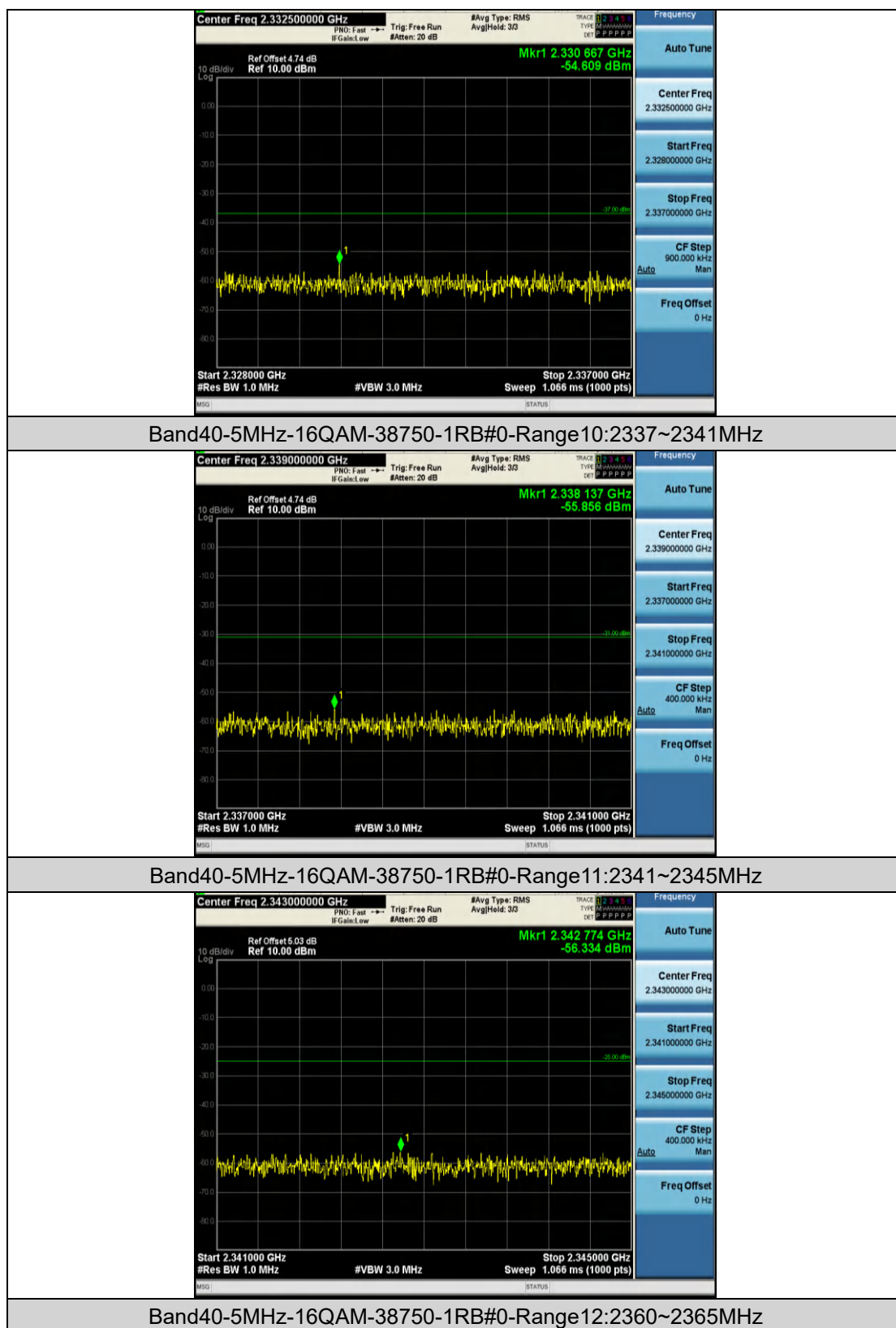


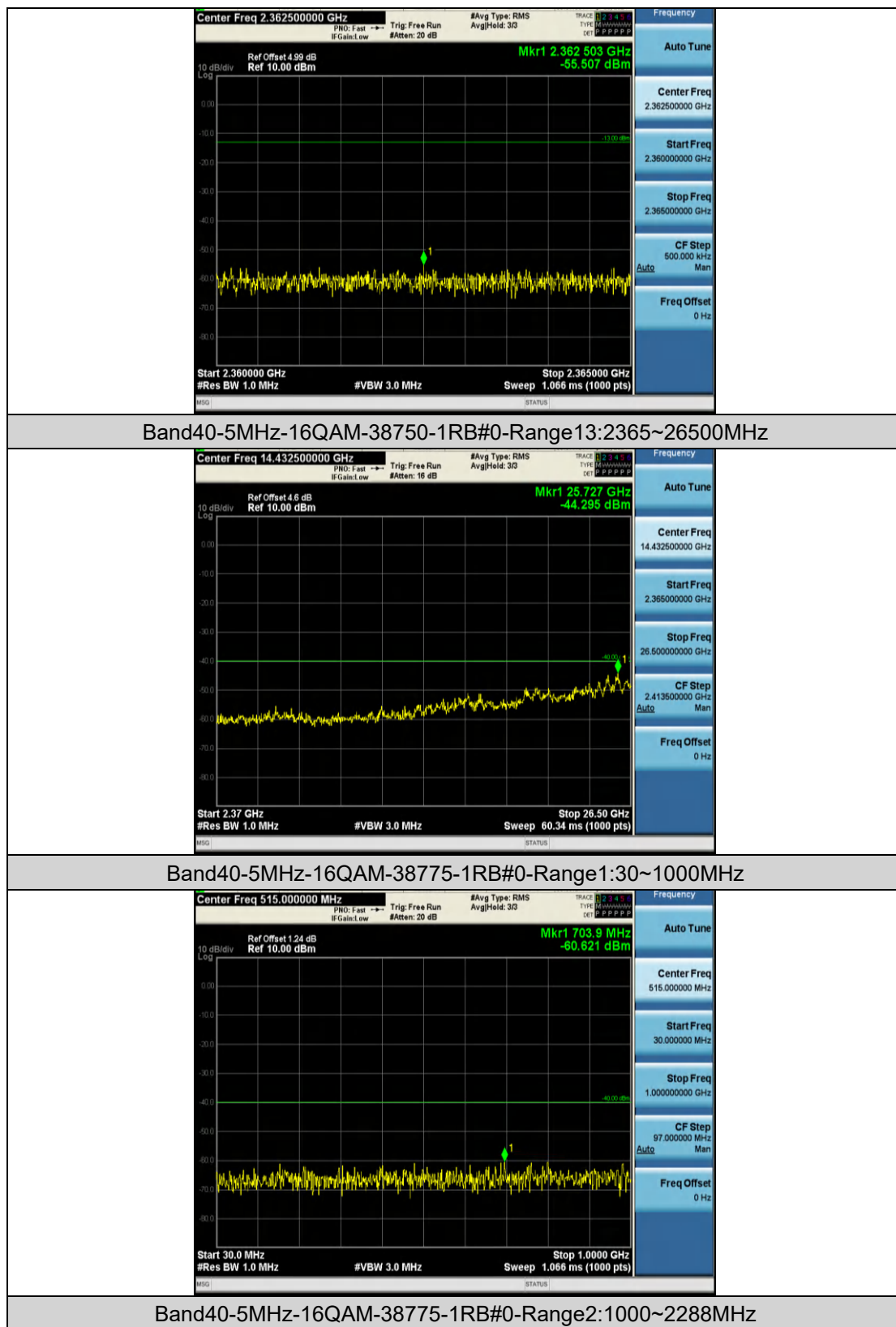


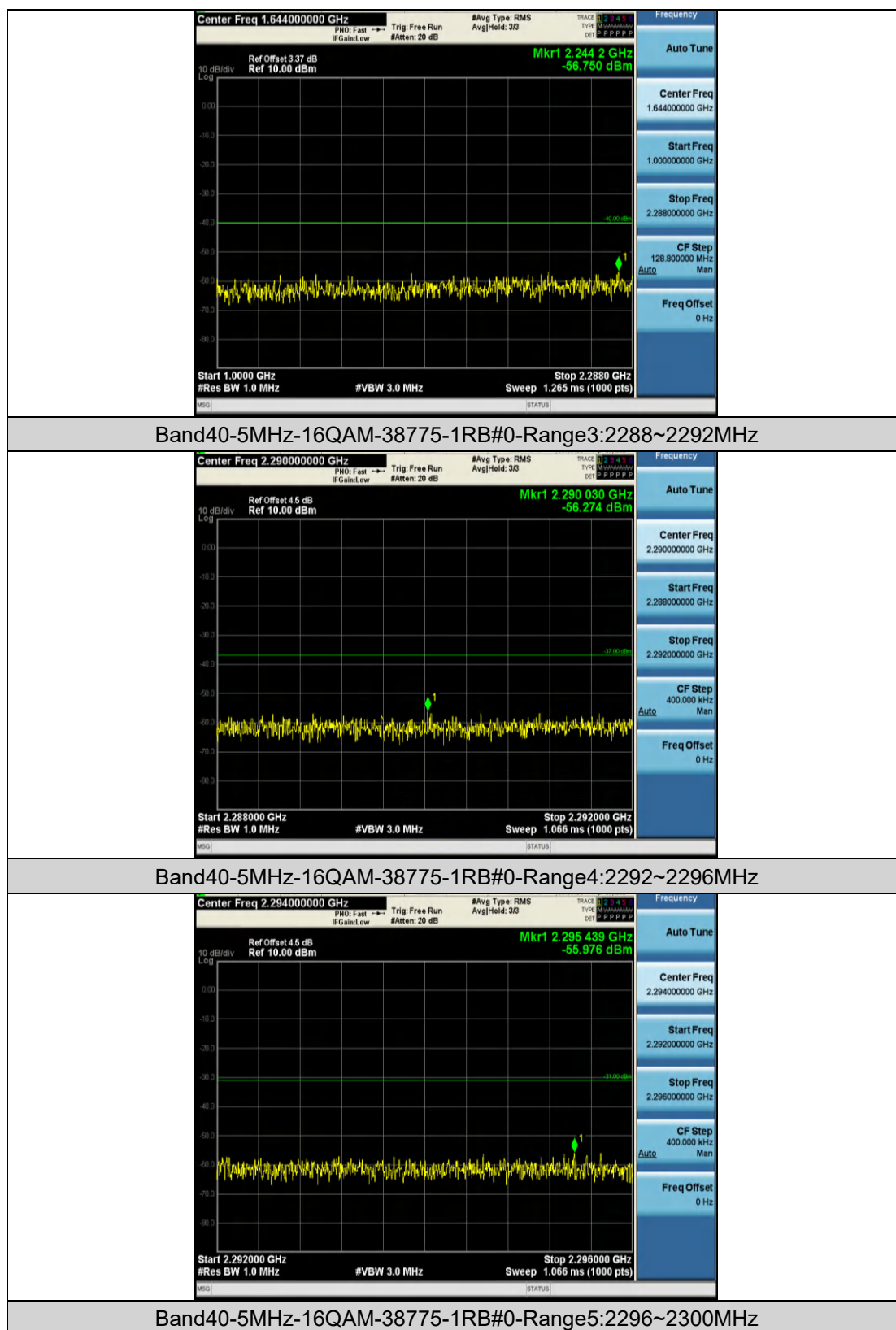


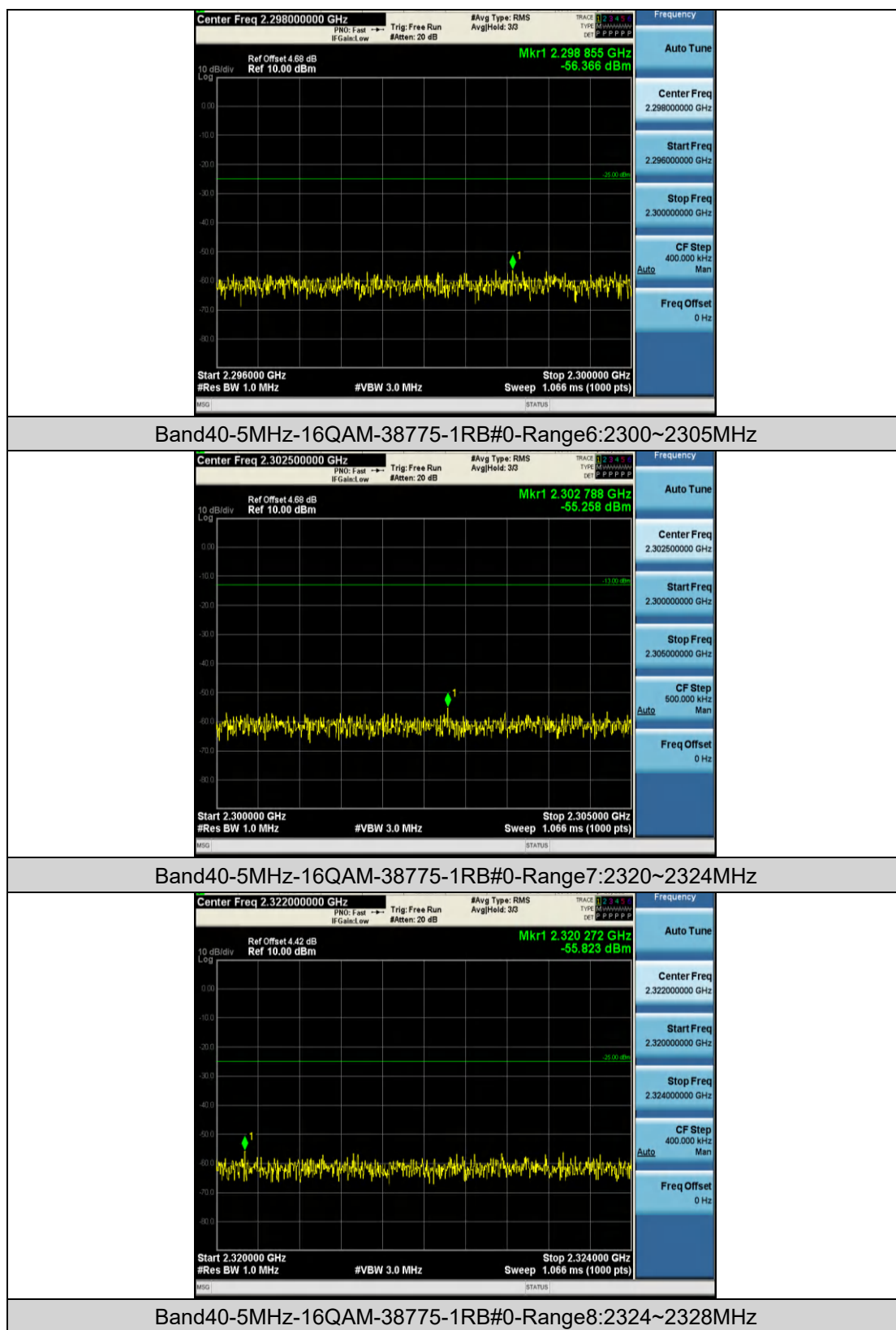




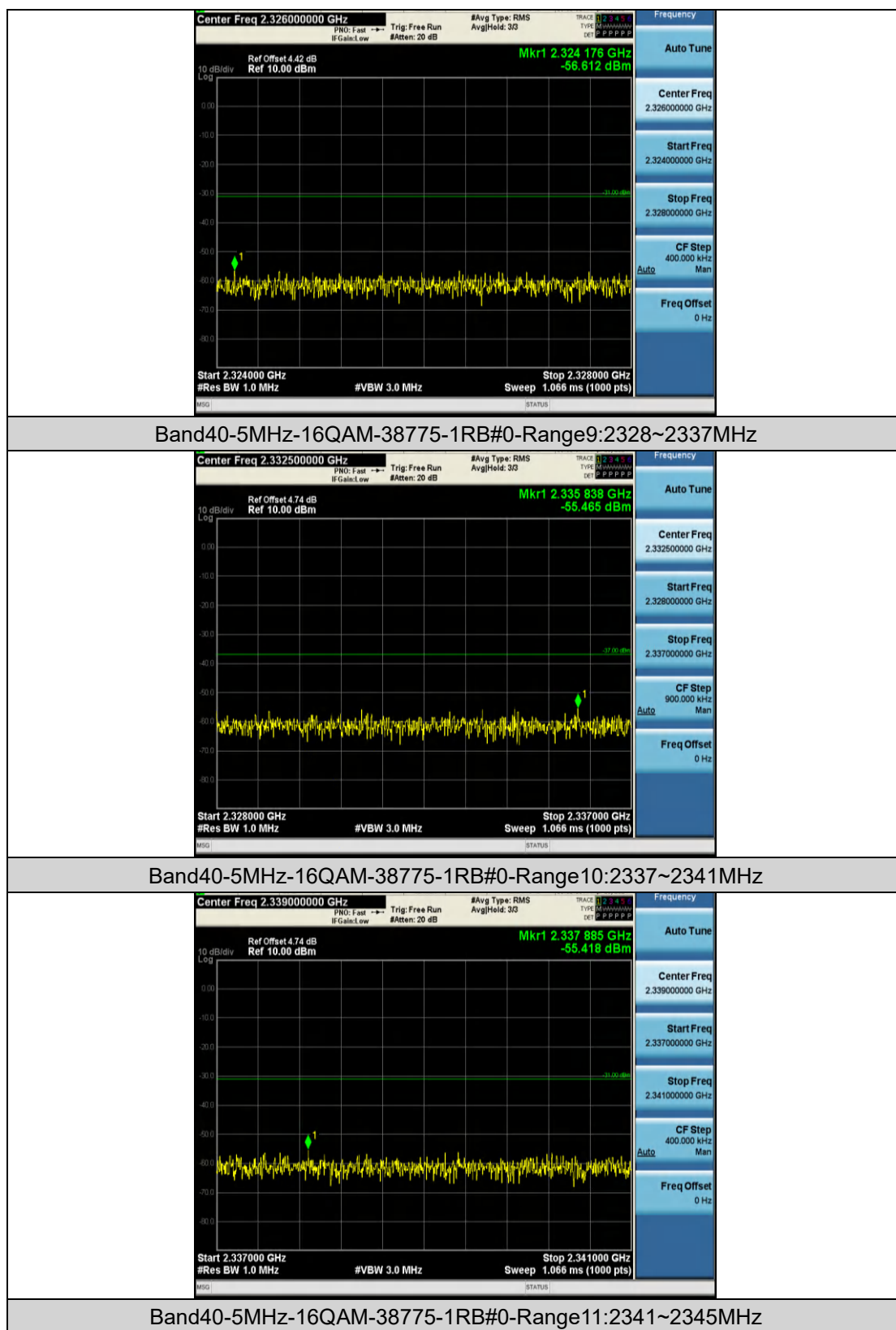


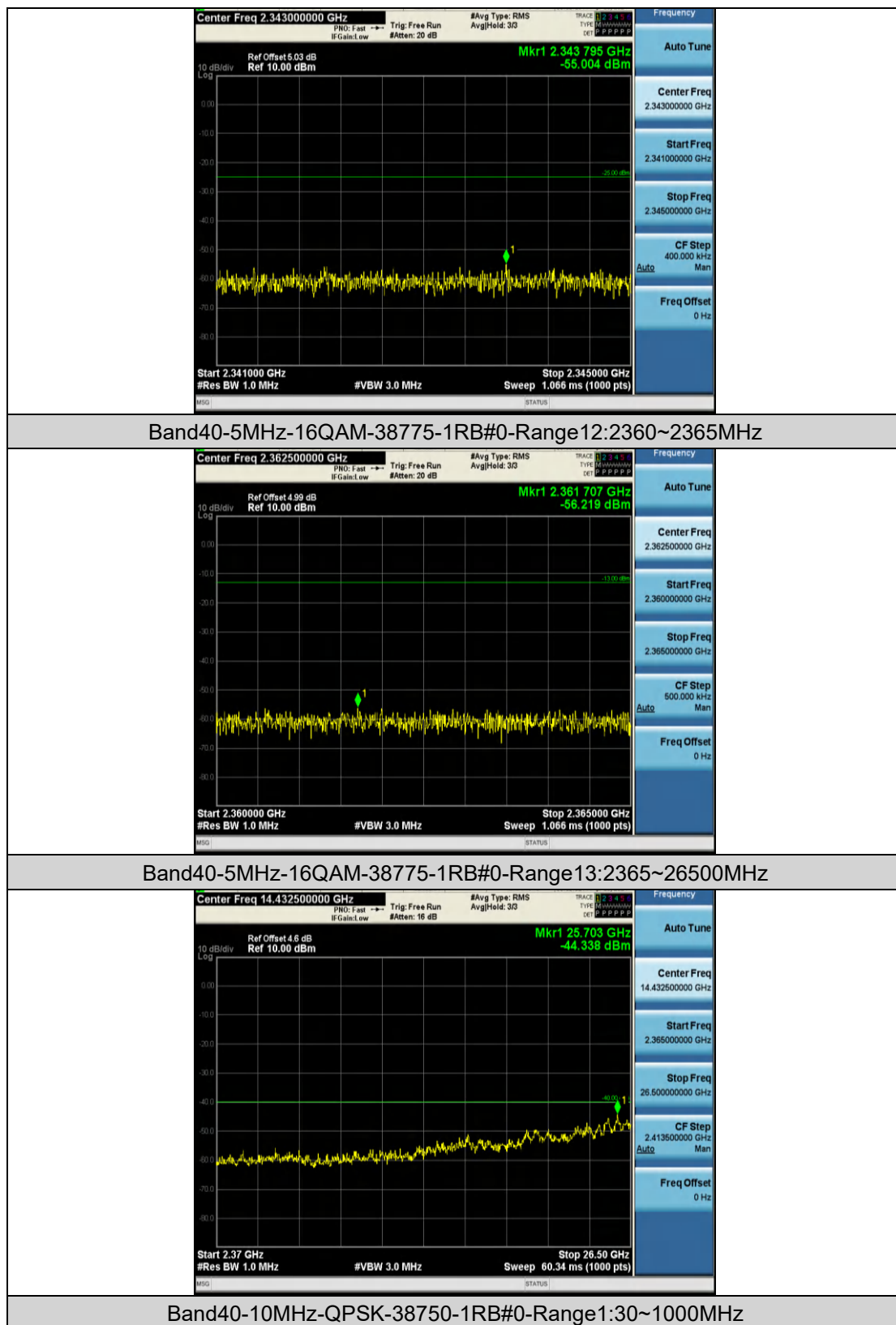


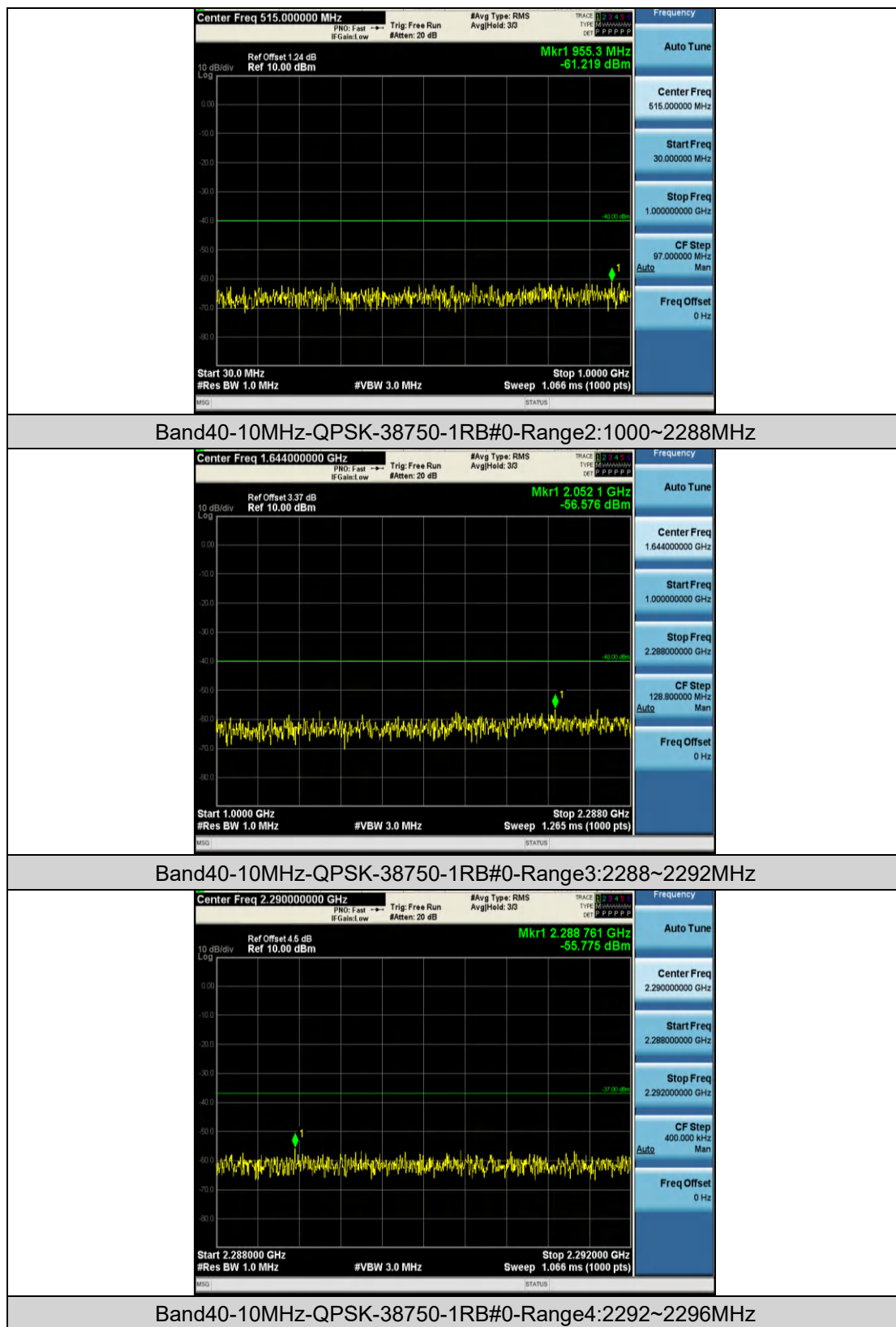


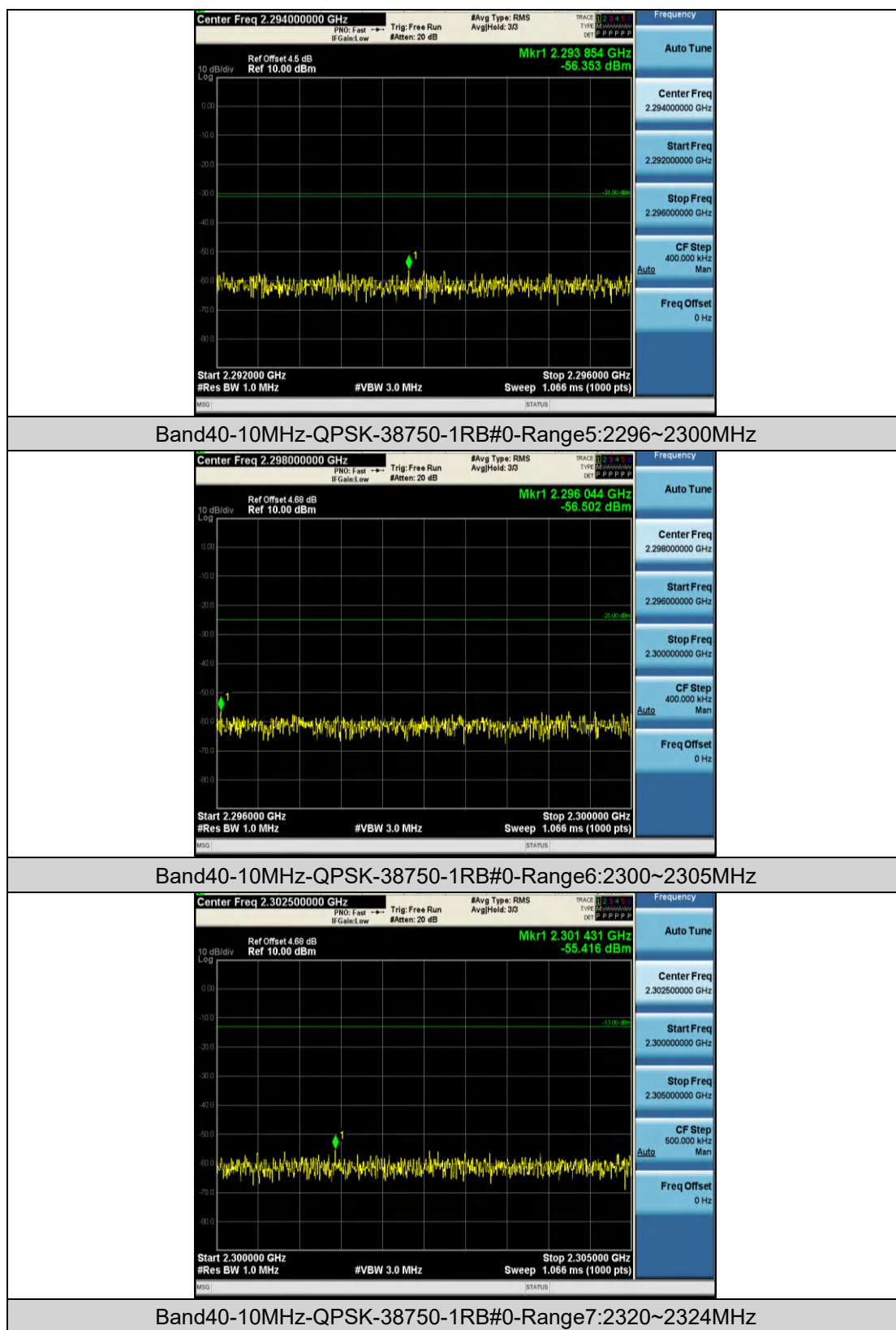


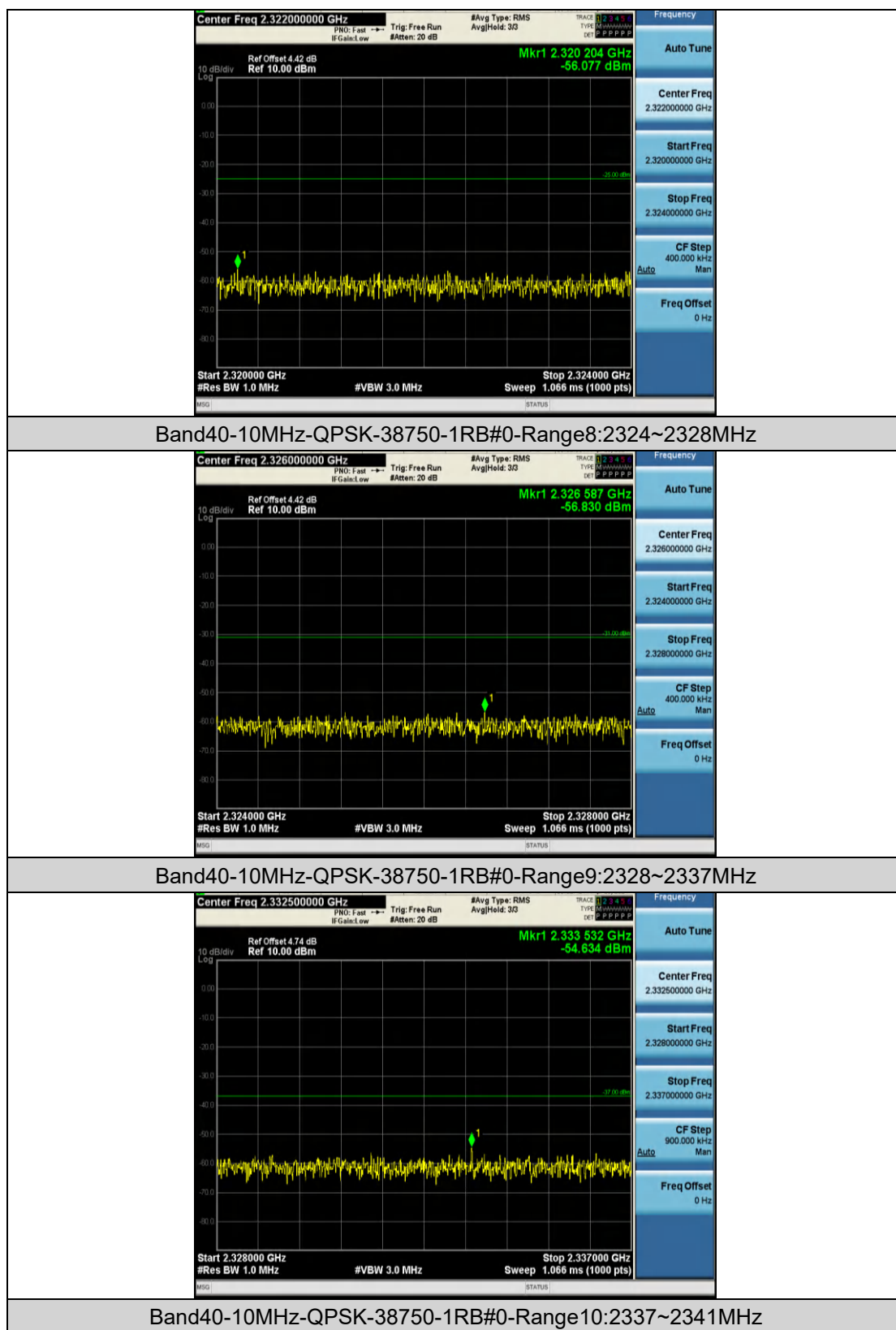


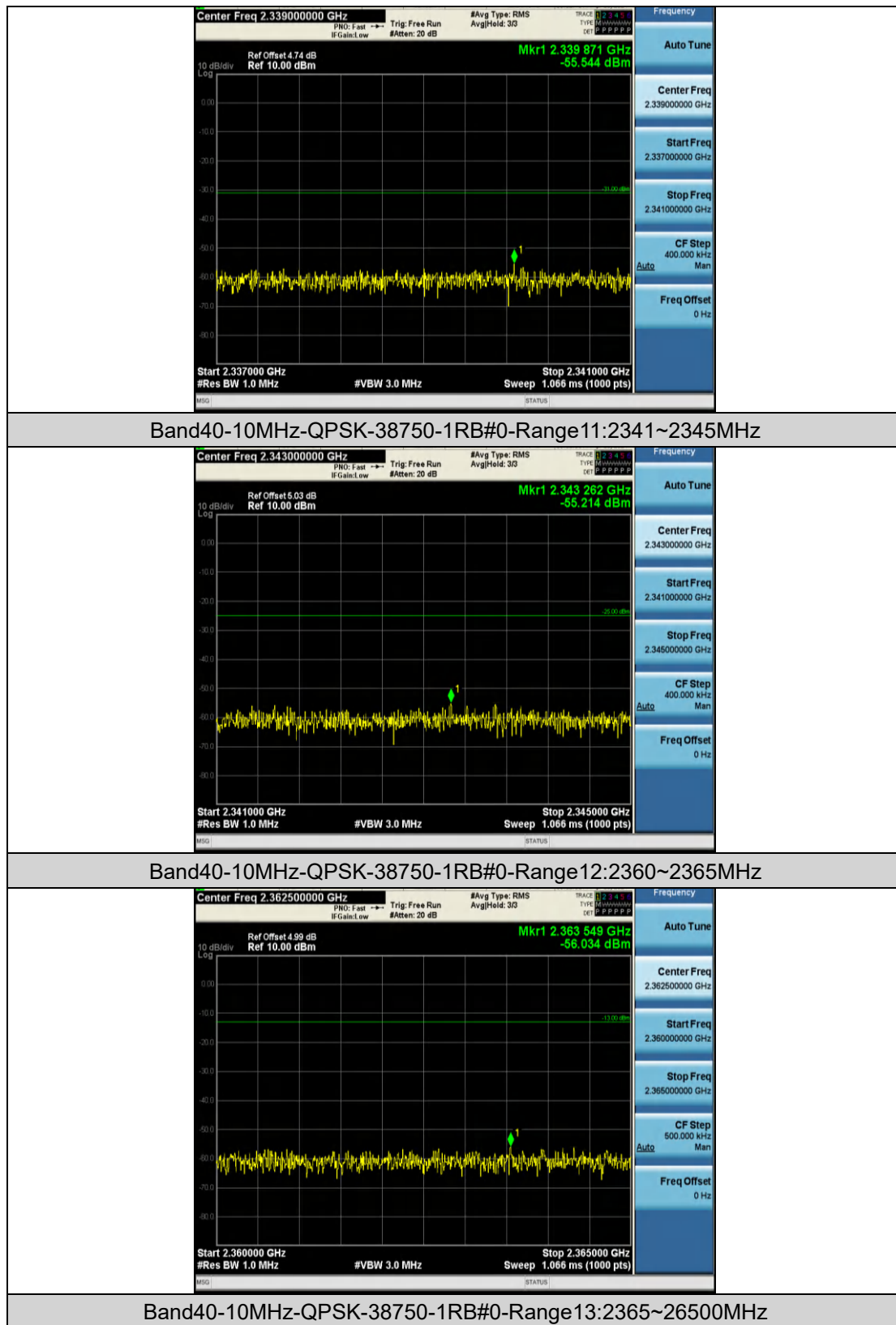




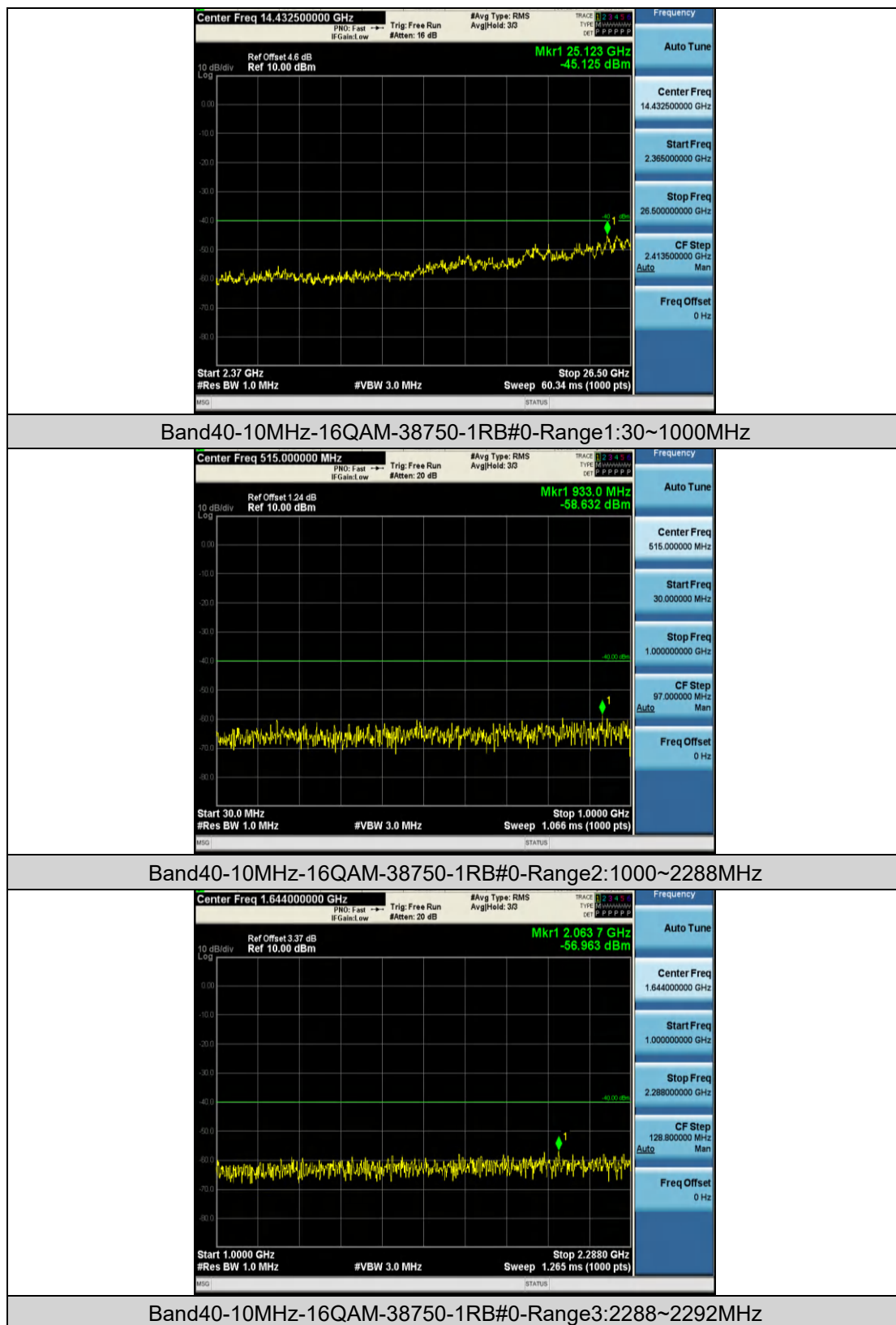


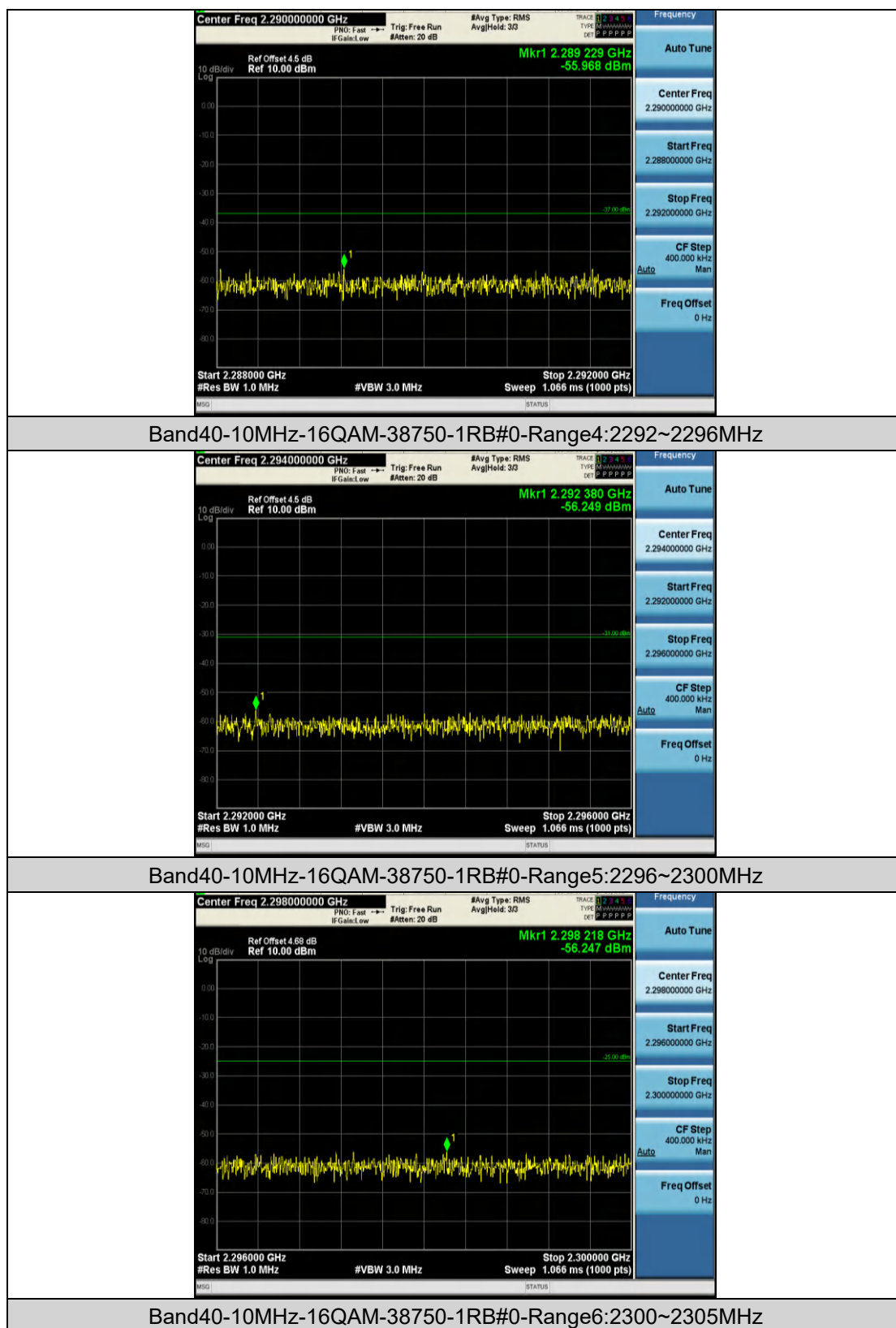


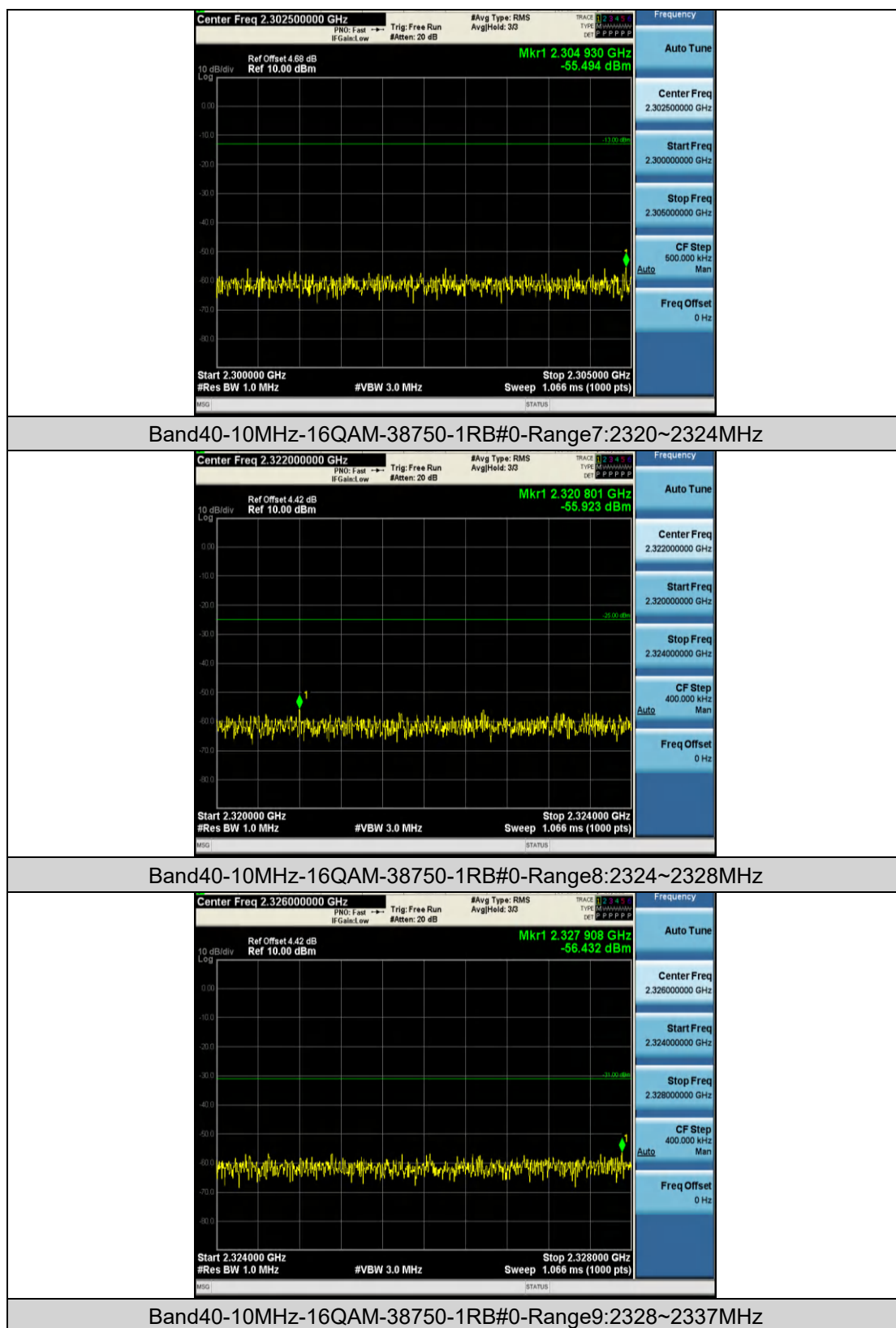


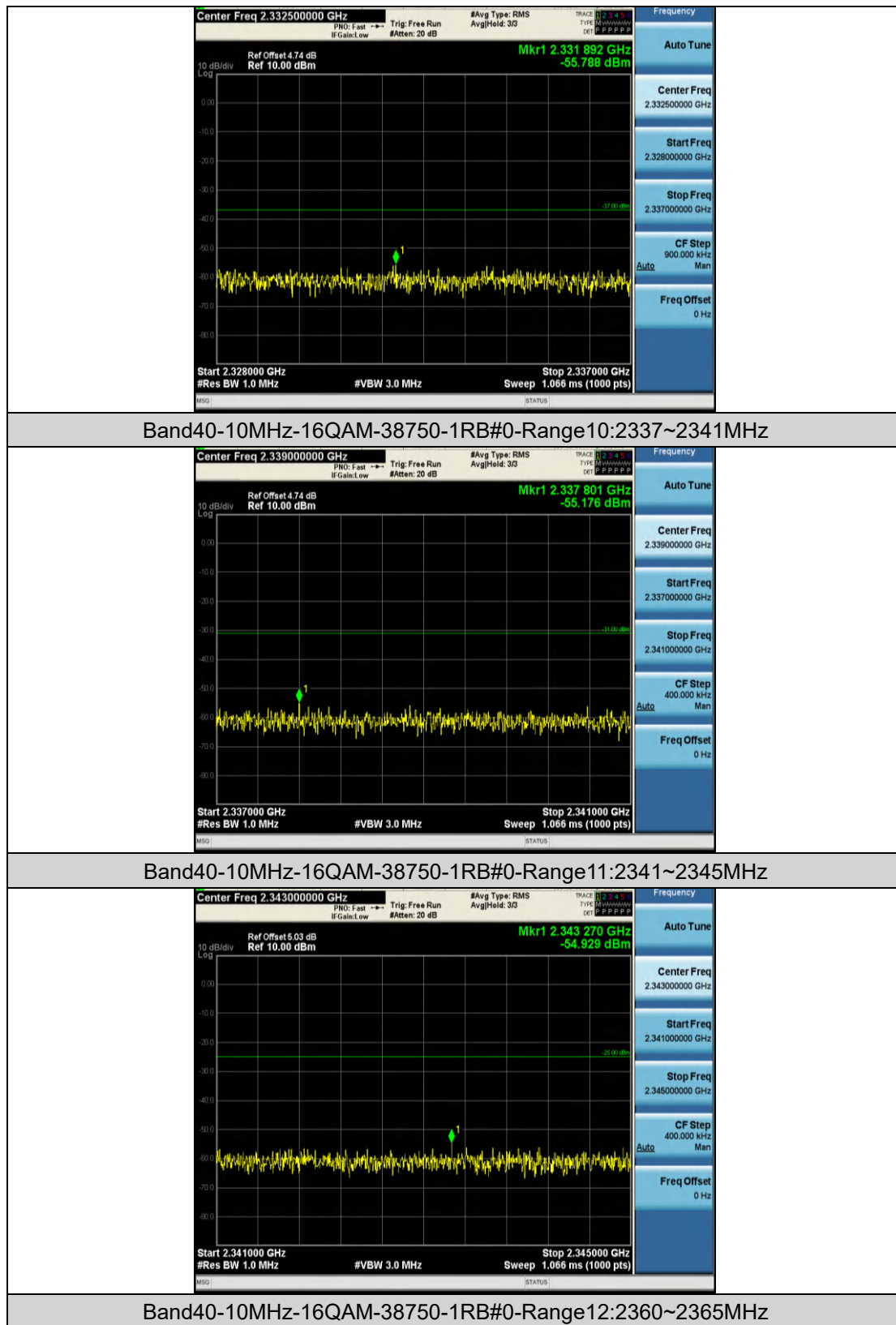


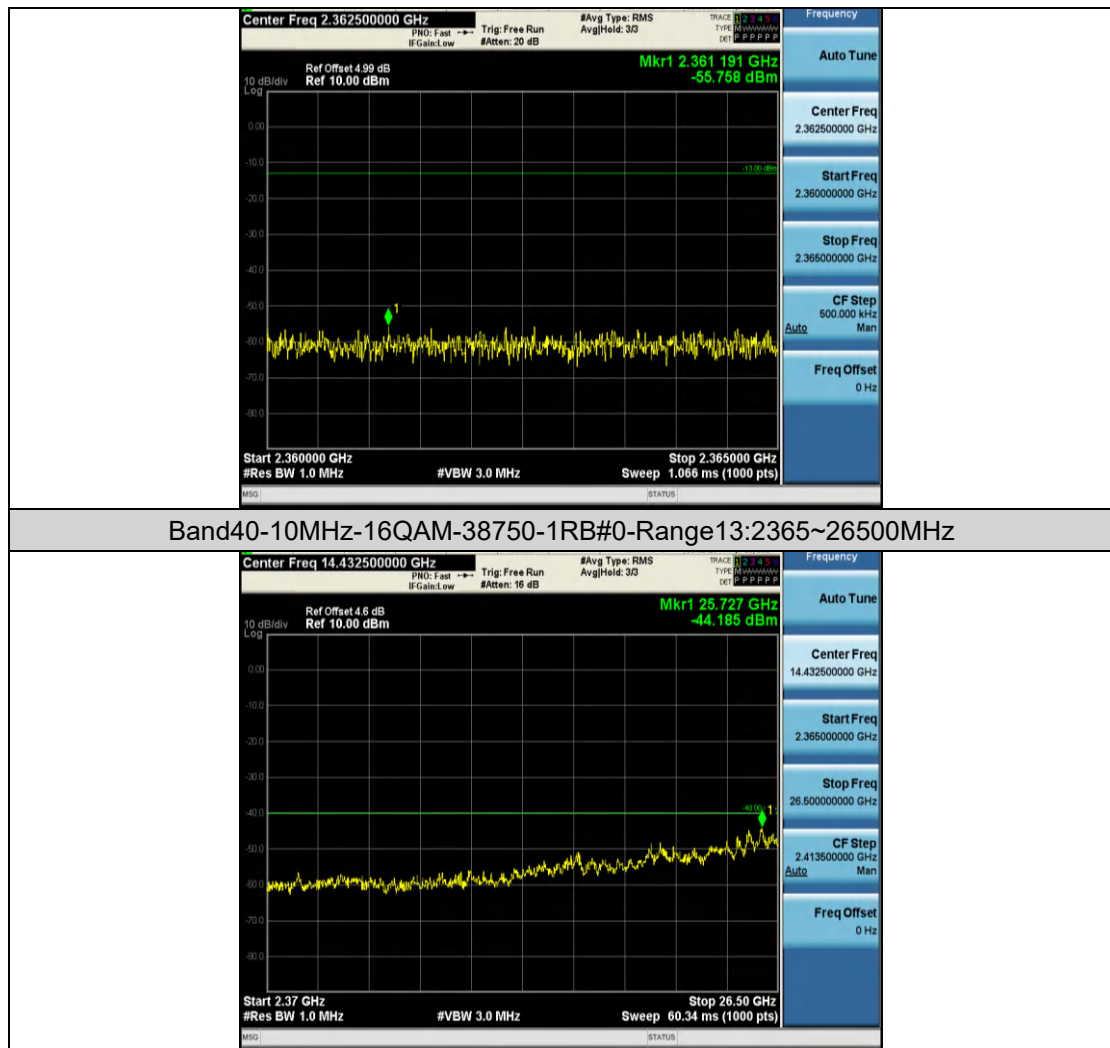












## Appendix F: Frequency Stability

### Test Result

| Band          | Bandwidth | Modulation | Channel | RB Configuration | Voltage       |                  | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---------------|-----------|------------|---------|------------------|---------------|------------------|----------------|-----------------|-------------|---------|
|               |           |            |         |                  | Voltage [Vdc] | Temperature (°C) |                |                 |             |         |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | VN            | NT               | 23.61          | 0.010232        | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | VL            | NT               | 8.45           | 0.003662        | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | VH            | NT               | -17.99         | -0.007796       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | VN            | NT               | 4.36           | 0.001889        | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | VL            | NT               | -9.02          | -0.003909       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | VH            | NT               | -18.41         | -0.007978       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | VN            | NT               | 18.46          | 0.007991        | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | VL            | NT               | 21.91          | 0.009485        | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | VH            | NT               | 25.68          | 0.011117        | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0           | VN            | NT               | -23.88         | -0.010338       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0           | VL            | NT               | -25.39         | -0.010991       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0           | VH            | NT               | -31.09         | -0.013459       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | VN            | NT               | 18.75          | 0.008108        | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | VL            | NT               | 19.14          | 0.008277        | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | VH            | NT               | 10.88          | 0.004705        | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 25RB#0           | VN            | NT               | -47.31         | -0.020458       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 25RB#0           | VL            | NT               | -45.94         | -0.019866       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 25RB#0           | VH            | NT               | -46.89         | -0.020277       | ±2.5        | PASS    |



|               |       |       |       |        |    |    |        |           |      |      |
|---------------|-------|-------|-------|--------|----|----|--------|-----------|------|------|
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | VN | NT | -29.27 | -0.012671 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | VL | NT | -54.15 | -0.023442 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | VH | NT | -13.62 | -0.005896 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | VN | NT | -52.52 | -0.022736 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | VL | NT | -52.04 | -0.022528 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | VH | NT | -9.03  | -0.003909 | ±2.5 | PASS |

| Temperature   |           |            |         |              |               |                  |                |                 |             |         |
|---------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band          | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0       | NV            | -30              | -34.48         | -0.014943       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0       | NV            | -20              | -44.40         | -0.019242       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0       | NV            | -10              | -12.10         | -0.005244       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0       | NV            | 0                | -19.80         | -0.008581       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0       | NV            | 10               | -30.13         | -0.013057       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0       | NV            | 20               | -36.41         | -0.015779       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0       | NV            | 30               | -39.93         | -0.017304       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0       | NV            | 40               | -50.97         | -0.022089       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0       | NV            | 50               | -55.54         | -0.024069       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0       | NV            | -30              | -22.12         | -0.009586       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0       | NV            | -20              | -26.34         | -0.011415       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0       | NV            | -10              | -33.37         | -0.014462       | ±2.5        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0       | NV            | 0                | -35.36         | -0.015324       | ±2.5        | PASS    |

|               |      |       |       |        |    |     |        |           |      |      |
|---------------|------|-------|-------|--------|----|-----|--------|-----------|------|------|
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | 10  | -38.69 | -0.016767 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | 20  | -43.71 | -0.018943 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | 30  | -48.68 | -0.021096 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | 40  | -56.35 | -0.024420 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | 50  | -56.13 | -0.024325 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK  | 38750 | 25RB#0 | NV | -30 | 21.10  | 0.009134  | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK  | 38750 | 25RB#0 | NV | -20 | 12.97  | 0.005615  | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK  | 38750 | 25RB#0 | NV | -10 | 2.34   | 0.001013  | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK  | 38750 | 25RB#0 | NV | 0   | -6.07  | -0.002628 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK  | 38750 | 25RB#0 | NV | 10  | -9.13  | -0.003952 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK  | 38750 | 25RB#0 | NV | 20  | -16.96 | -0.007342 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK  | 38750 | 25RB#0 | NV | 30  | -12.42 | -0.005377 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK  | 38750 | 25RB#0 | NV | 40  | -14.56 | -0.006303 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK  | 38750 | 25RB#0 | NV | 50  | -17.12 | -0.007411 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | -30 | -29.39 | -0.012723 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | -20 | -37.50 | -0.016234 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | -10 | -41.26 | -0.017861 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | 0   | -42.98 | -0.018606 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | 10  | -50.60 | -0.021905 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | 20  | -49.42 | -0.021394 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | 30  | -52.56 | -0.022753 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | 40  | -54.00 | -0.023377 | ±2.5 | PASS |

|                   |       |       |       |        |    |     |        |           |      |      |
|-------------------|-------|-------|-------|--------|----|-----|--------|-----------|------|------|
| -2315)            |       |       |       |        |    |     |        |           |      |      |
| 40(2305<br>-2315) | 5MHz  | 16QAM | 38750 | 25RB#0 | NV | 50  | -50.44 | -0.021835 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | QPSK  | 38775 | 25RB#0 | NV | -30 | 8.03   | 0.003472  | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | QPSK  | 38775 | 25RB#0 | NV | -20 | -10.16 | -0.004394 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | QPSK  | 38775 | 25RB#0 | NV | -10 | -12.95 | -0.005600 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | QPSK  | 38775 | 25RB#0 | NV | 0   | -13.22 | -0.005717 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | QPSK  | 38775 | 25RB#0 | NV | 10  | -21.30 | -0.009211 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | QPSK  | 38775 | 25RB#0 | NV | 20  | -23.72 | -0.010257 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | QPSK  | 38775 | 25RB#0 | NV | 30  | -27.96 | -0.012091 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | QPSK  | 38775 | 25RB#0 | NV | 40  | -31.24 | -0.013509 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | QPSK  | 38775 | 25RB#0 | NV | 50  | -36.62 | -0.015836 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | NV | -30 | -42.27 | -0.018279 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | NV | -20 | -45.09 | -0.019498 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | NV | -10 | -41.30 | -0.017859 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | NV | 0   | -39.74 | -0.017185 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | NV | 10  | -40.24 | -0.017401 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | NV | 20  | -36.30 | -0.015697 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | NV | 30  | -30.21 | -0.013064 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | NV | 40  | -33.50 | -0.014486 | ±2.5 | PASS |
| 40(2305<br>-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | NV | 50  | -29.01 | -0.012545 | ±2.5 | PASS |
| 40(2305<br>-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | NV | -30 | -30.64 | -0.013264 | ±2.5 | PASS |
| 40(2305<br>-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | NV | -20 | -49.04 | -0.021229 | ±2.5 | PASS |

|               |       |       |       |        |    |     |        |           |      |      |
|---------------|-------|-------|-------|--------|----|-----|--------|-----------|------|------|
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | NV | -10 | -18.81 | -0.008143 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | NV | 0   | -37.22 | -0.016113 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | NV | 10  | -54.63 | -0.023649 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | NV | 20  | -8.11  | -0.003511 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | NV | 30  | -20.80 | -0.009004 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | NV | 40  | -30.68 | -0.013281 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | NV | 50  | -39.92 | -0.017281 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | -30 | -10.74 | -0.004649 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | -20 | -6.94  | -0.003004 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | -10 | -11.37 | -0.004922 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 0   | -9.86  | -0.004268 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 10  | -16.15 | -0.006991 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 20  | -20.11 | -0.008706 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 30  | -25.10 | -0.010866 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 40  | -29.21 | -0.012645 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 50  | -36.40 | -0.015758 | ±2.5 | PASS |