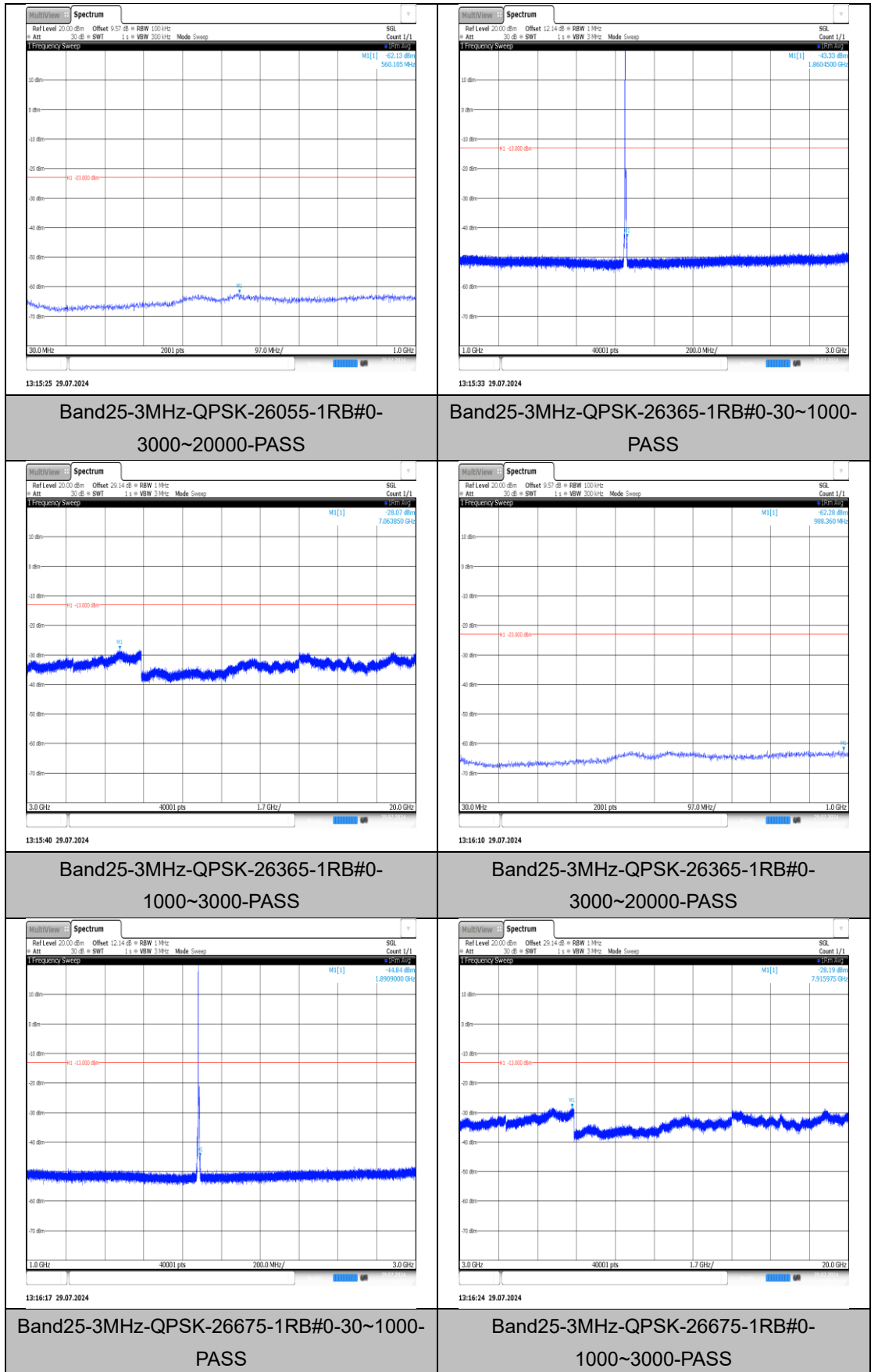
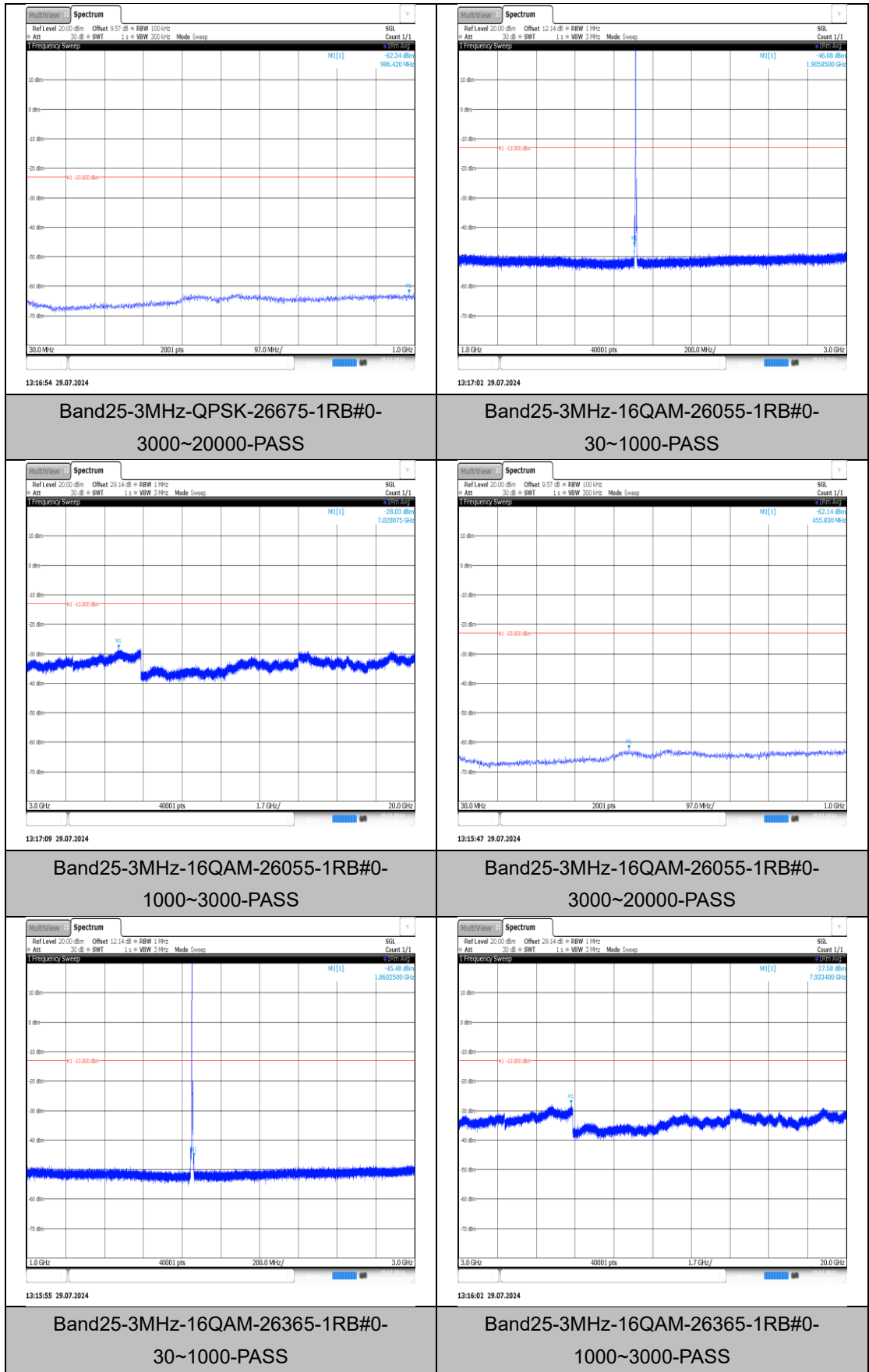
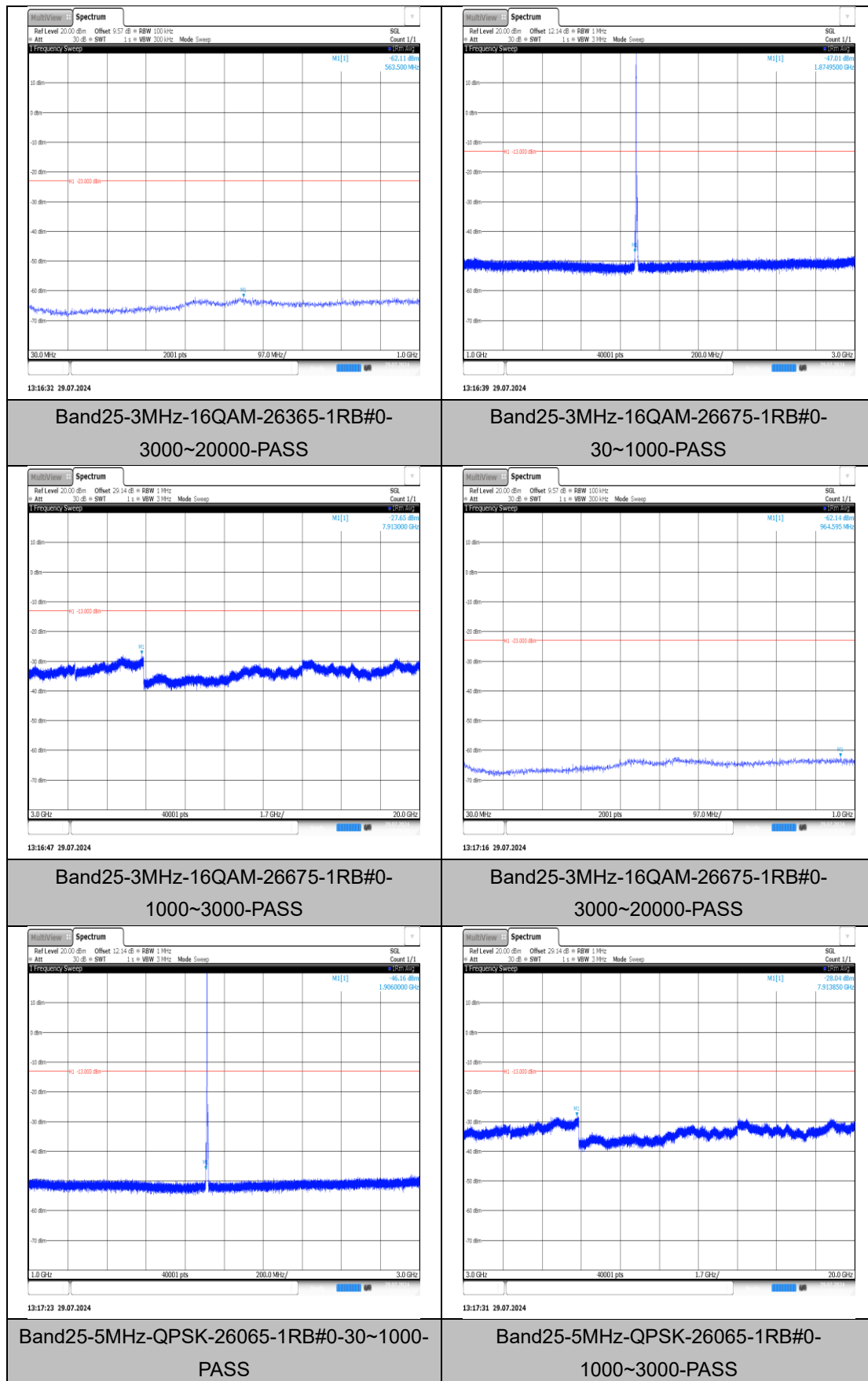
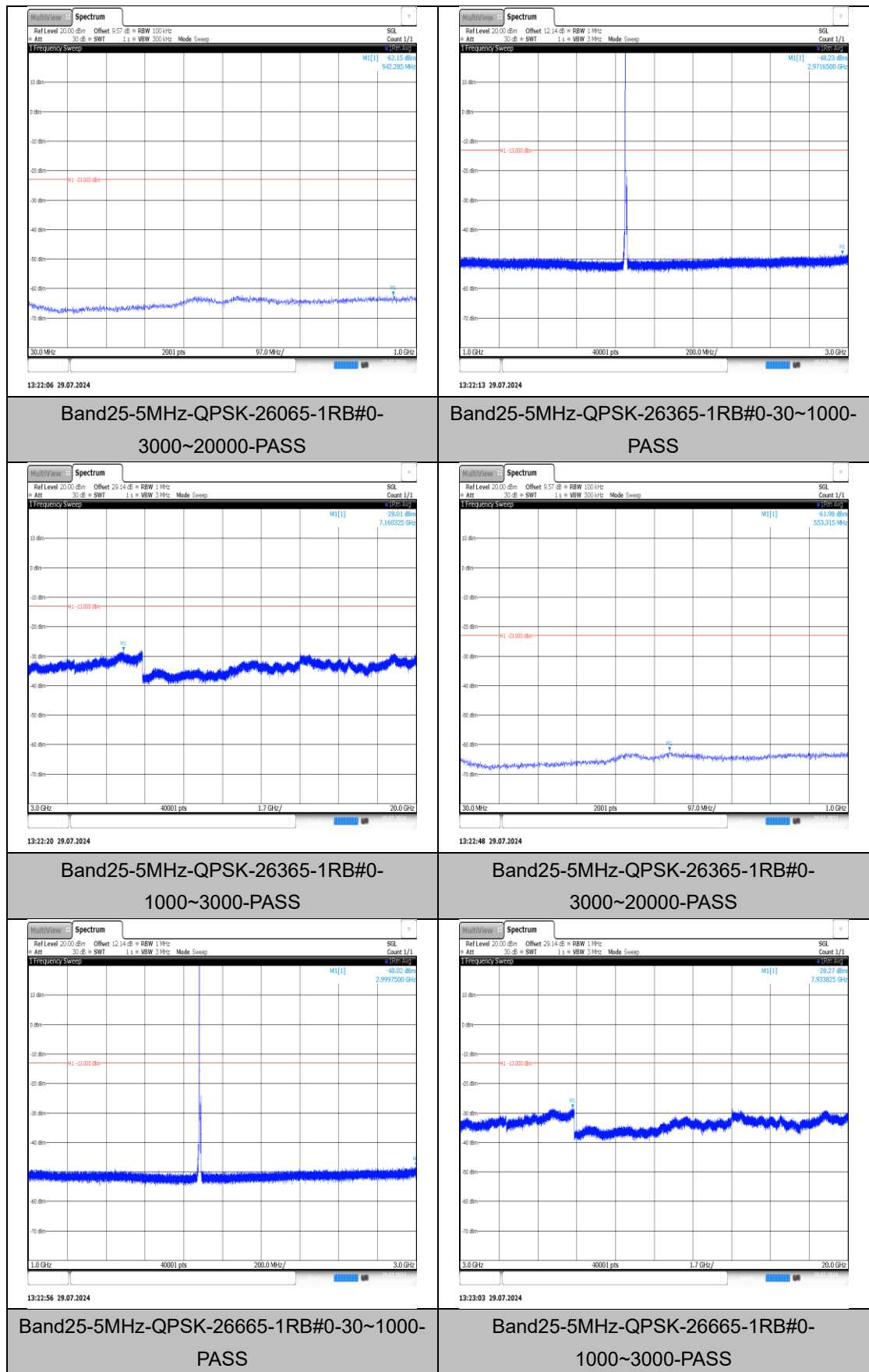
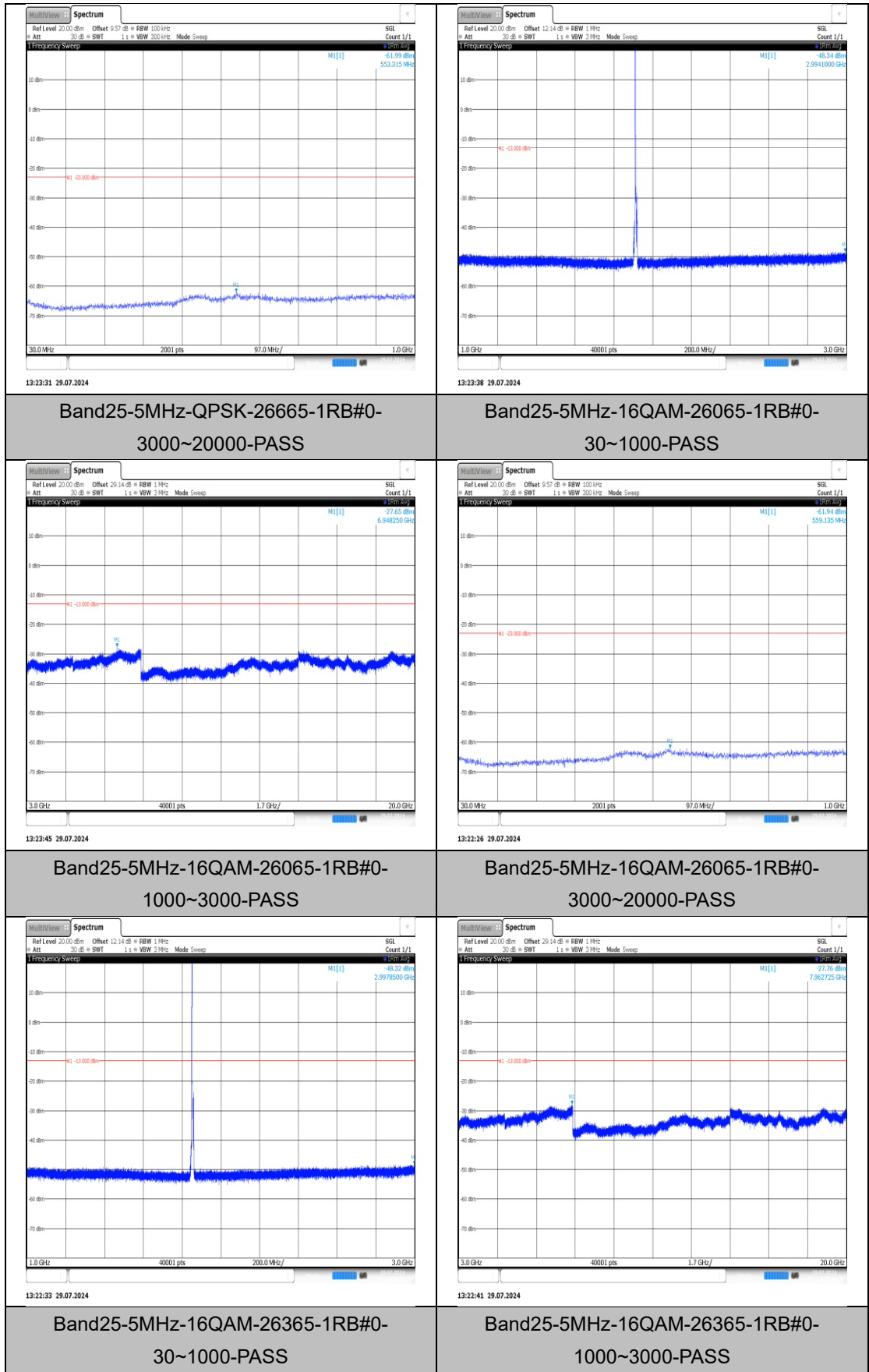


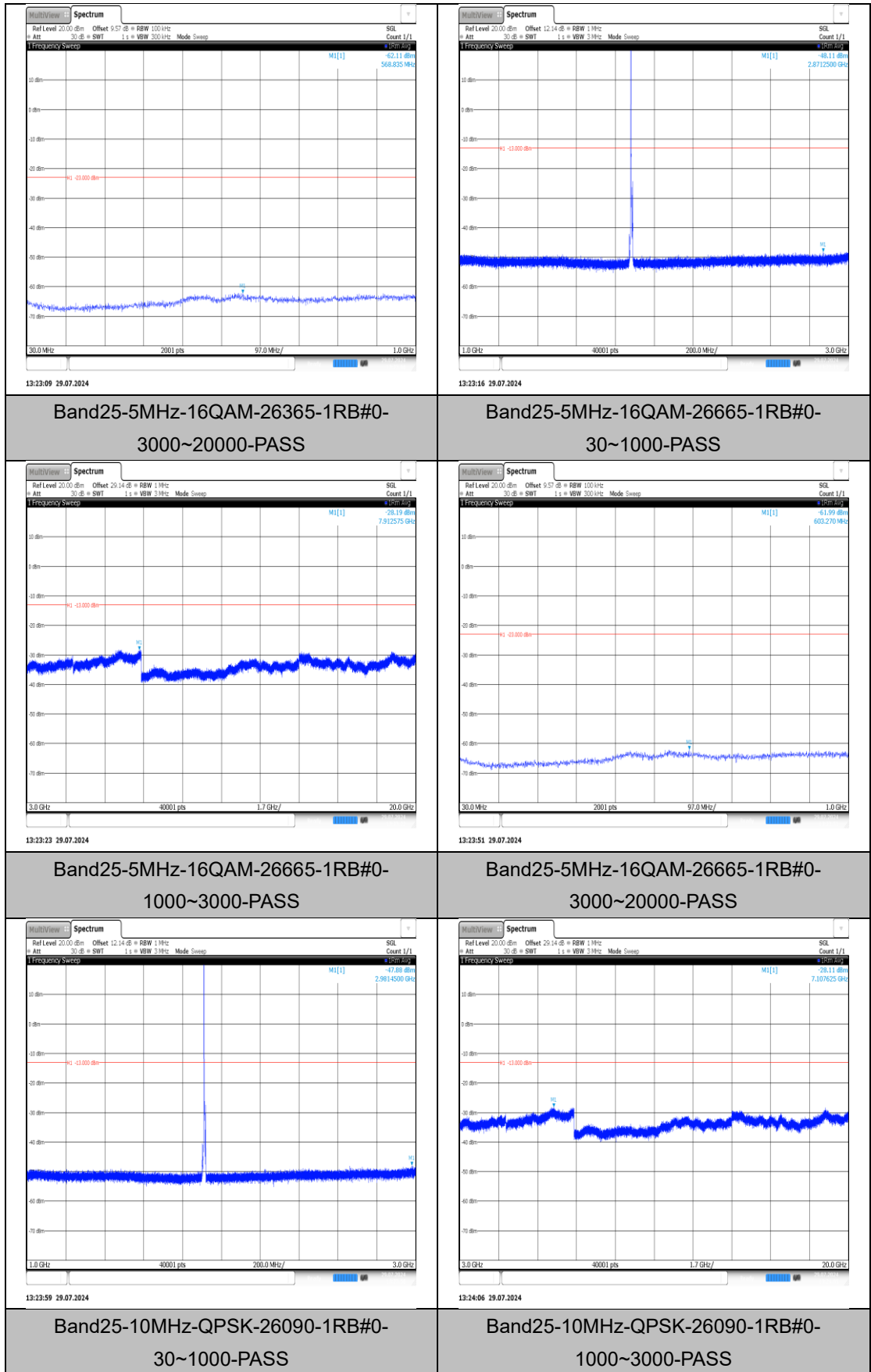


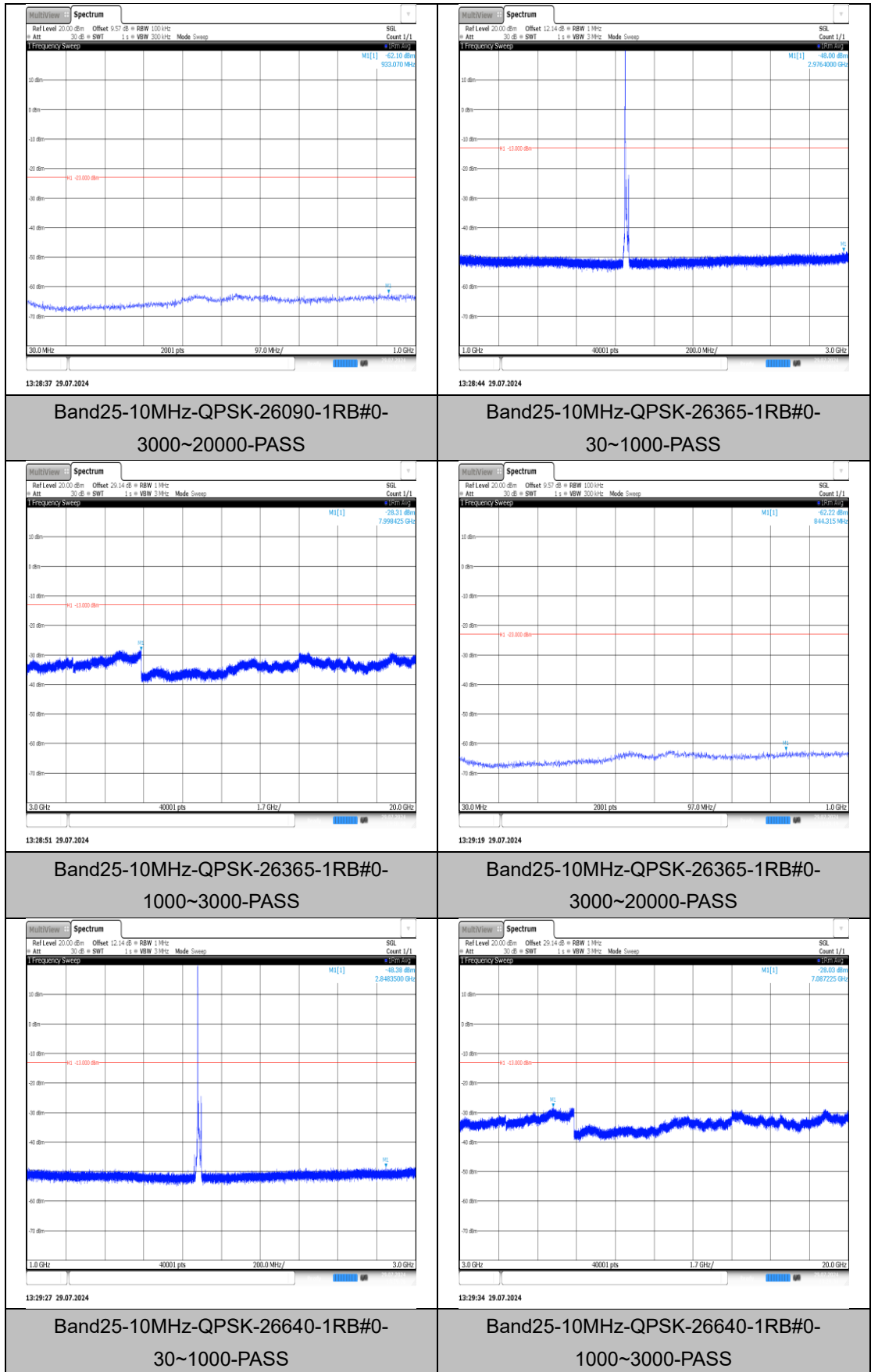


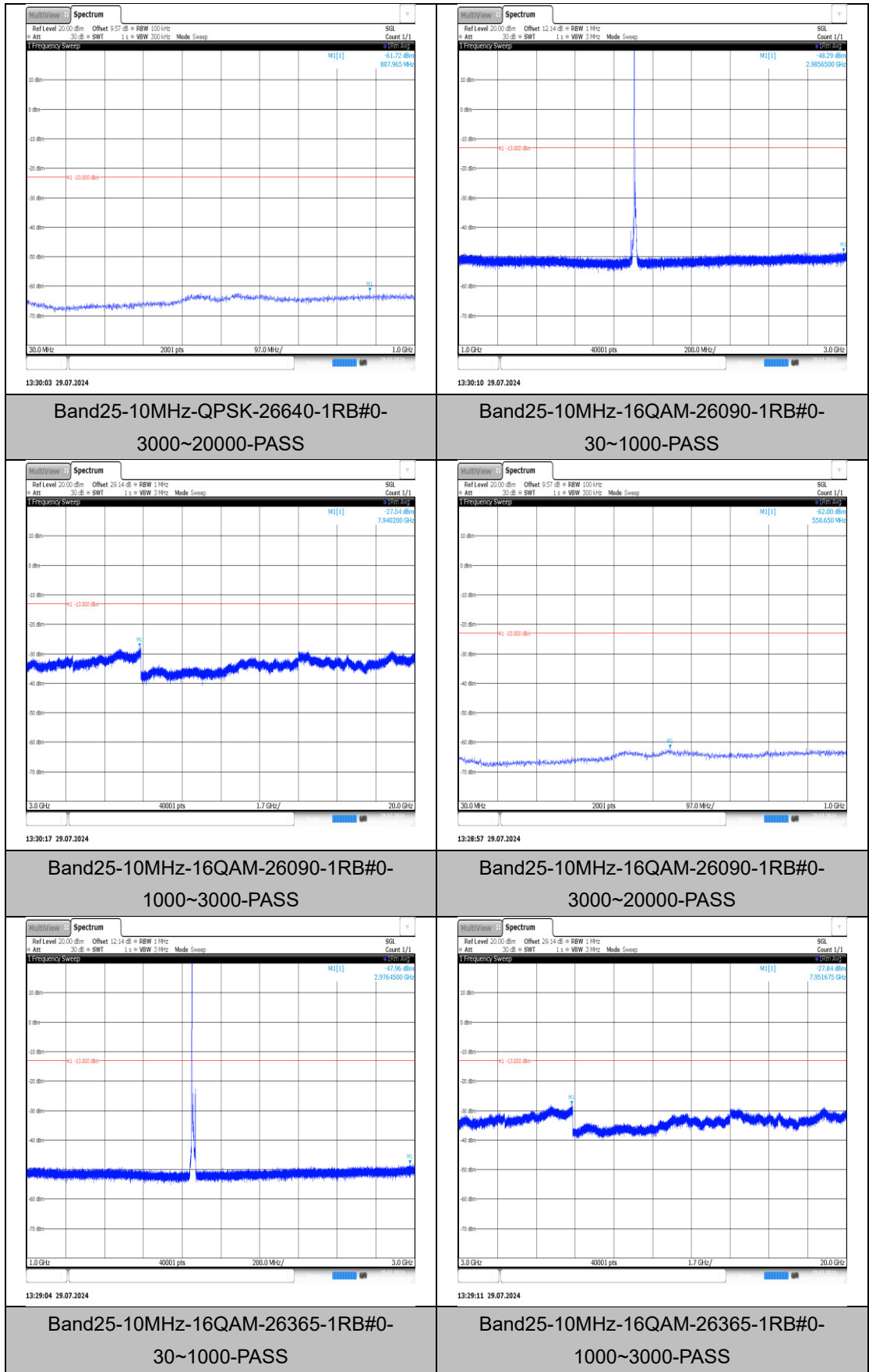




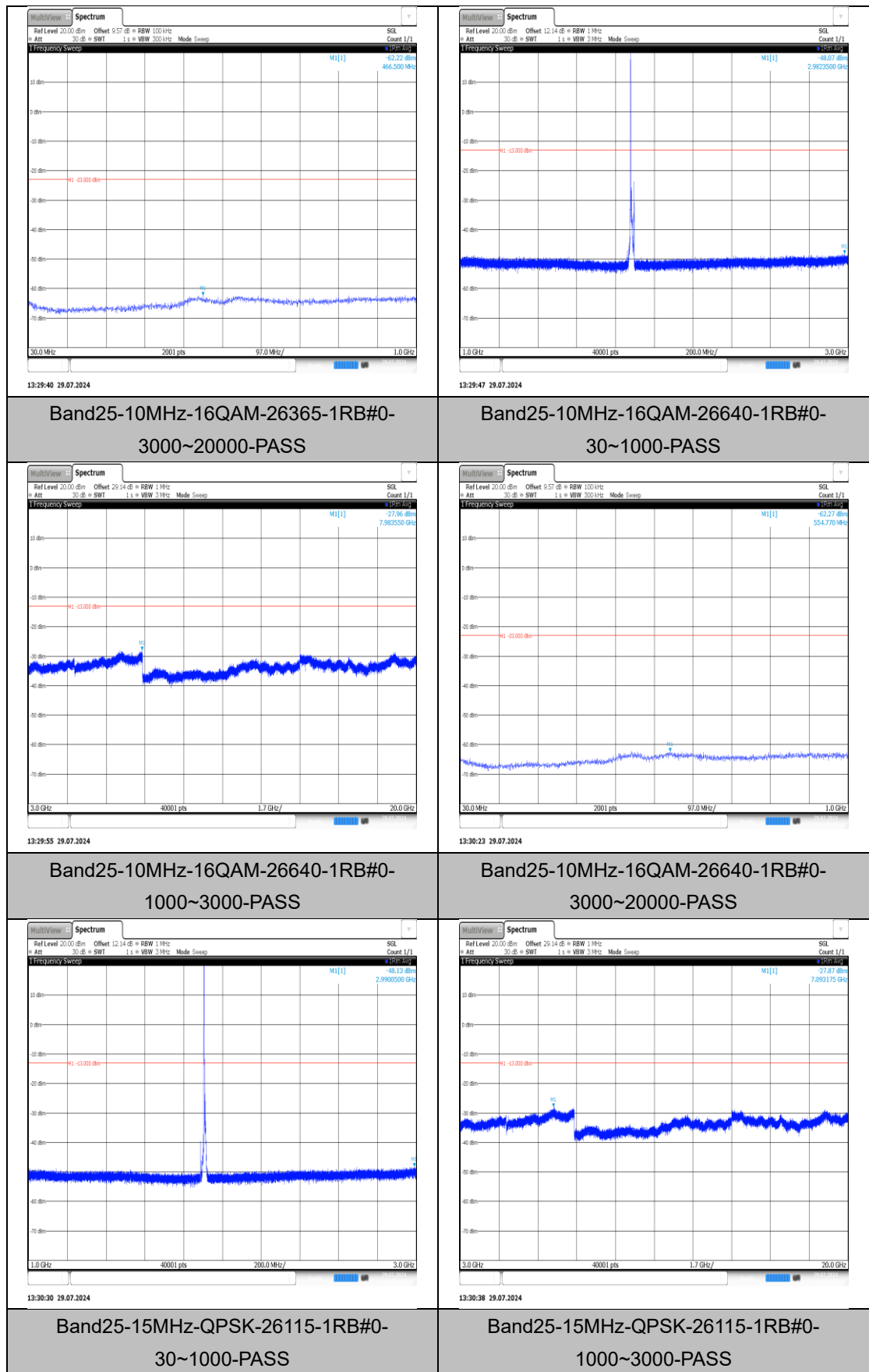


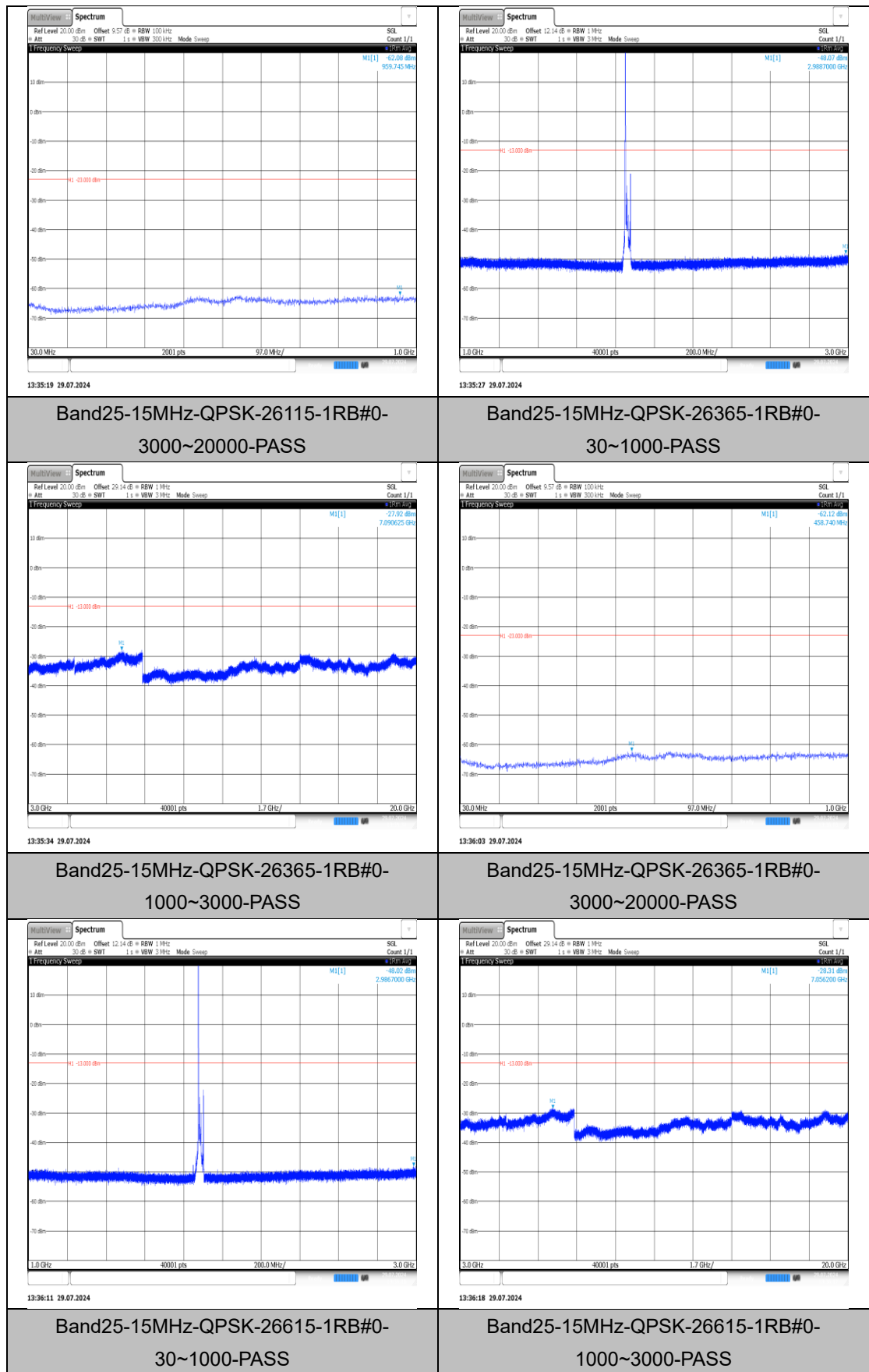


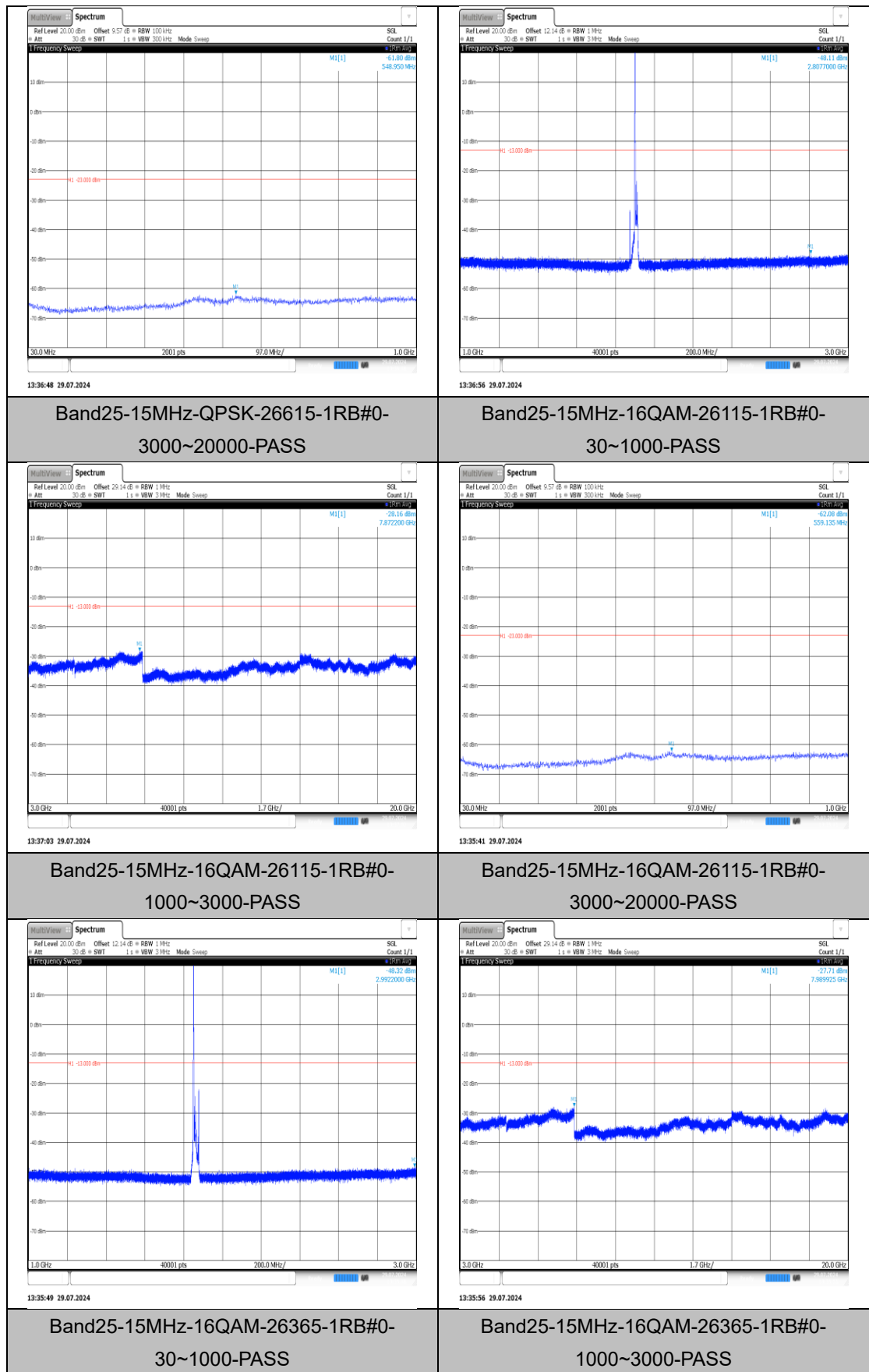


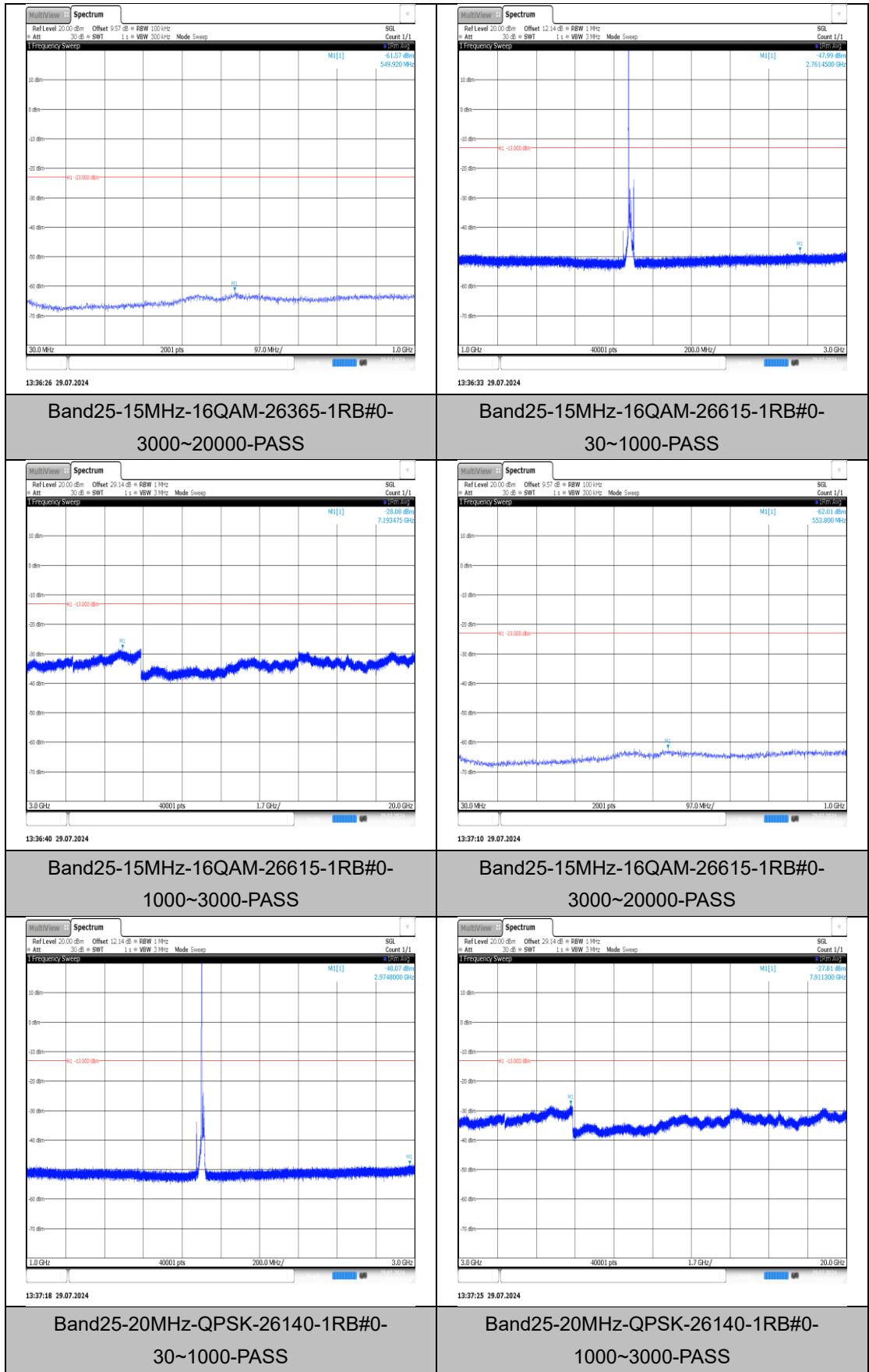


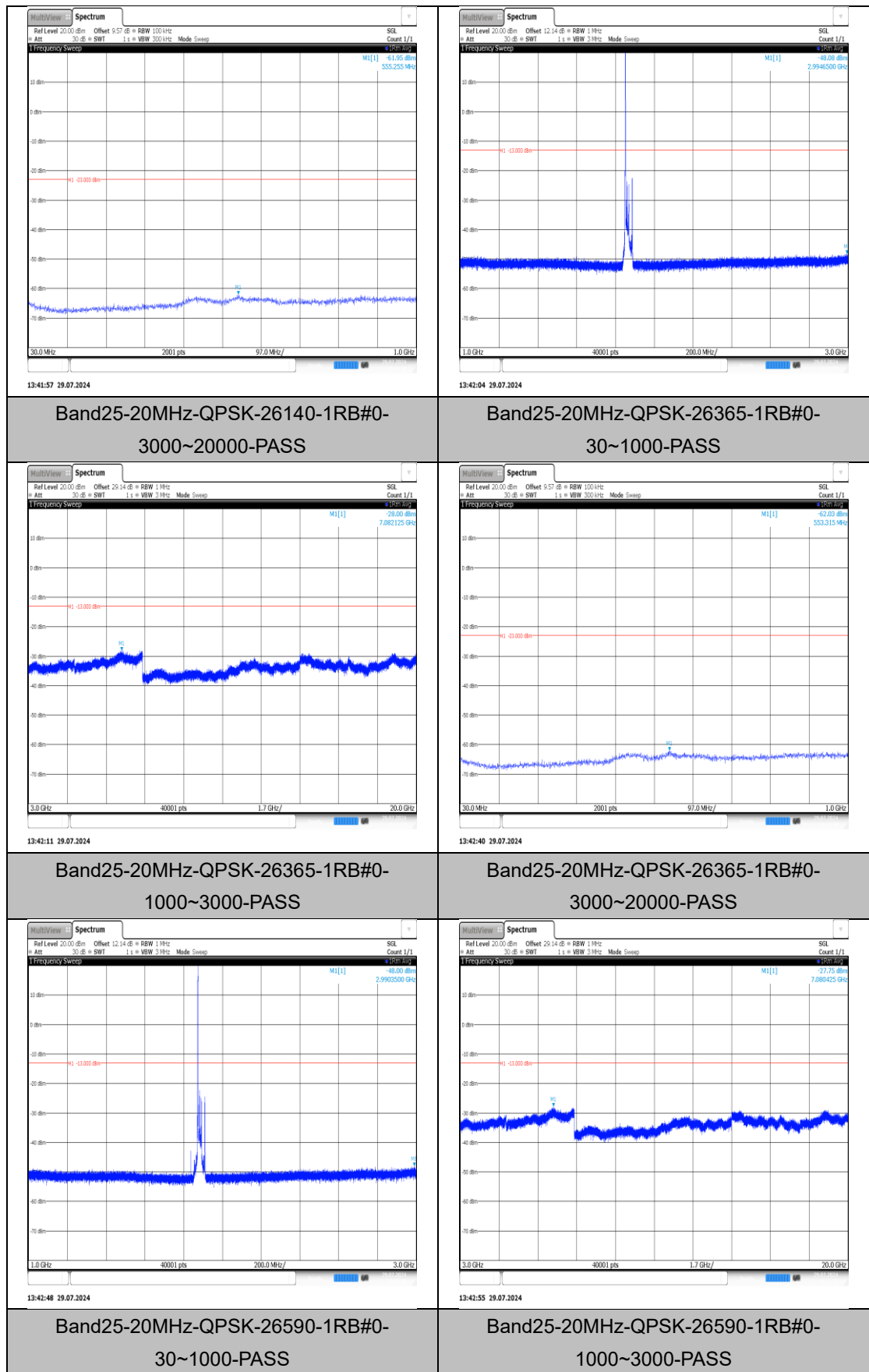


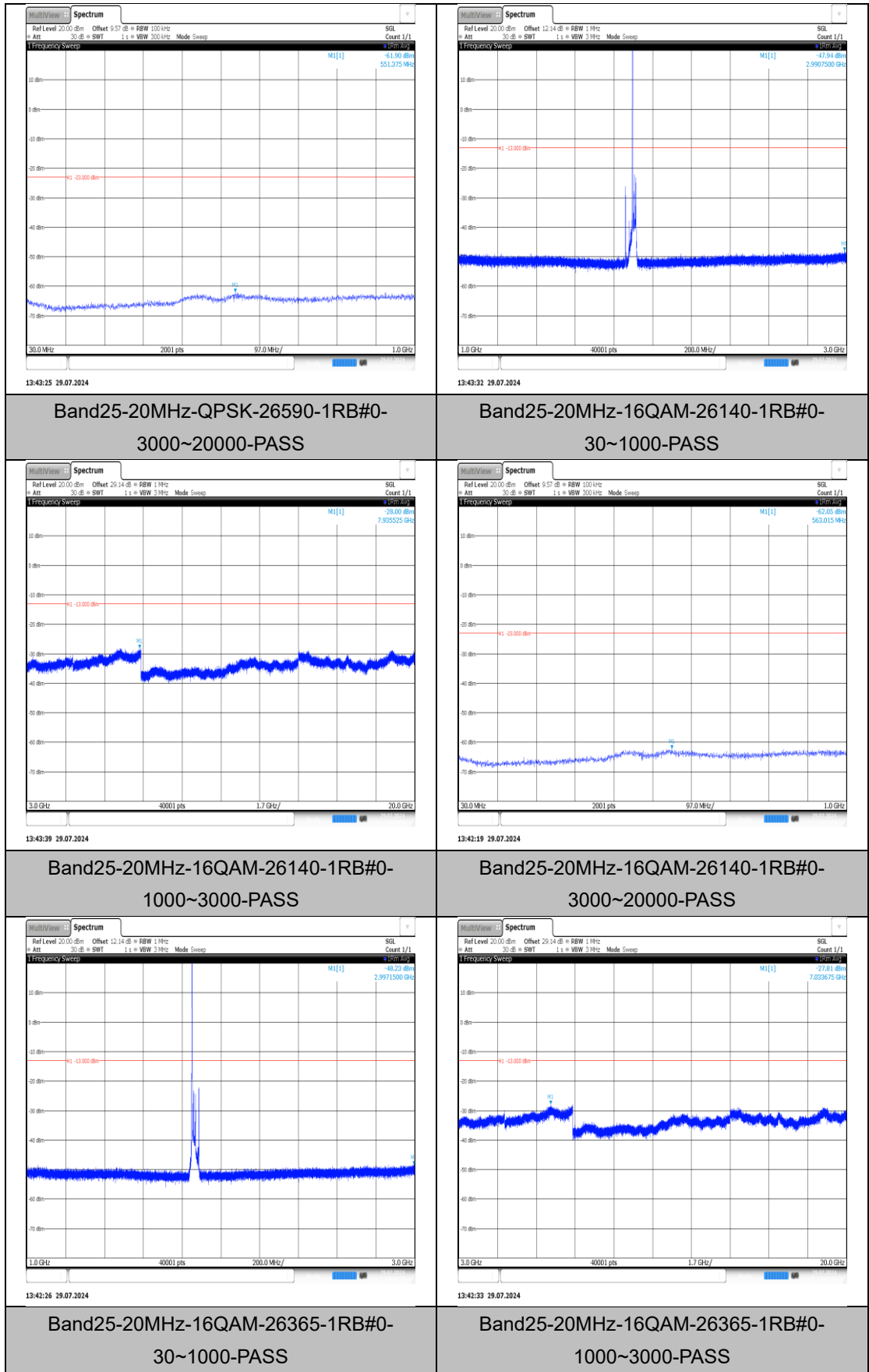


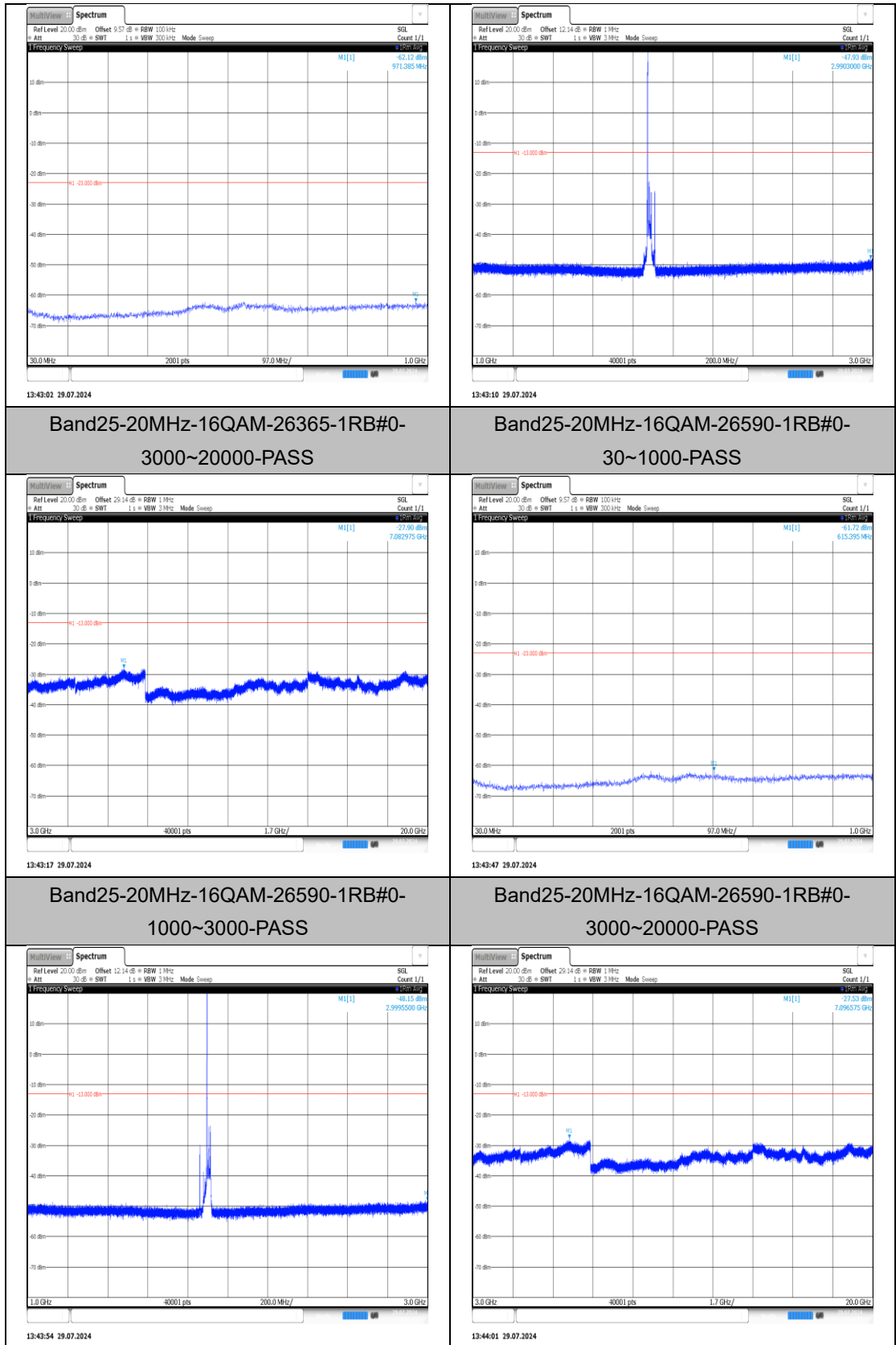












## Appendix F: Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band25  | 1.4MHz    | QPSK       | 26365   | 6RB#0        | VN            | NT               | -16.29         | -0.008653       | ±2.5        | PASS    |
| Band25  | 1.4MHz    | QPSK       | 26365   | 6RB#0        | VL            | NT               | -17.15         | -0.009110       | ±2.5        | PASS    |
| Band25  | 1.4MHz    | QPSK       | 26365   | 6RB#0        | VH            | NT               | -22.89         | -0.012159       | ±2.5        | PASS    |
| Band25  | 3MHz      | QPSK       | 26365   | 15RB#0       | VN            | NT               | -12.63         | -0.006709       | ±2.5        | PASS    |
| Band25  | 3MHz      | QPSK       | 26365   | 15RB#0       | VL            | NT               | 11.40          | 0.006056        | ±2.5        | PASS    |
| Band25  | 3MHz      | QPSK       | 26365   | 15RB#0       | VH            | NT               | -21.90         | -0.011633       | ±2.5        | PASS    |
| Band25  | 5MHz      | QPSK       | 26365   | 25RB#0       | VN            | NT               | 7.71           | 0.004096        | ±2.5        | PASS    |
| Band25  | 5MHz      | QPSK       | 26365   | 25RB#0       | VL            | NT               | -17.71         | -0.009408       | ±2.5        | PASS    |
| Band25  | 5MHz      | QPSK       | 26365   | 25RB#0       | VH            | NT               | -17.31         | -0.009195       | ±2.5        | PASS    |
| Band25  | 10MHz     | QPSK       | 26365   | 50RB#0       | VN            | NT               | -16.85         | -0.008951       | ±2.5        | PASS    |
| Band25  | 10MHz     | QPSK       | 26365   | 50RB#0       | VL            | NT               | -6.71          | -0.003564       | ±2.5        | PASS    |
| Band25  | 10MHz     | QPSK       | 26365   | 50RB#0       | VH            | NT               | -14.32         | -0.007607       | ±2.5        | PASS    |
| Band25  | 15MHz     | QPSK       | 26365   | 75RB#0       | VN            | NT               | -4.76          | -0.002529       | ±2.5        | PASS    |
| Band25  | 15MHz     | QPSK       | 26365   | 75RB#0       | VL            | NT               | -17.68         | -0.009392       | ±2.5        | PASS    |
| Band25  | 15MHz     | QPSK       | 26365   | 75RB#0       | VH            | NT               | -11.04         | -0.005865       | ±2.5        | PASS    |
| Band25  | 20MHz     | QPSK       | 26365   | 100RB#0      | VN            | NT               | -21.49         | -0.011416       | ±2.5        | PASS    |
| Band25  | 20MHz     | QPSK       | 26365   | 100RB#0      | VL            | NT               | -15.85         | -0.008420       | ±2.5        | PASS    |
| Band25  | 20MHz     | QPSK       | 26365   | 100RB#0      | VH            | NT               | -17.97         | -0.009546       | ±2.5        | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | -30              | -17.74         | -0.009424       | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | -20              | -3.59          | -0.001907       | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | -10              | 2.80           | 0.001487        | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | 0                | -17.48         | -0.009286       | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | 10               | -17.14         | -0.009105       | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | 20               | -16.81         | -0.008930       | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | 30               | -21.51         | -0.011426       | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | 40               | 6.37           | 0.003384        | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | 50               | -15.99         | -0.008494       | ±2.5        | PASS    |
| Band25      | 3MHz      | QPSK       | 26365   | 15RB#0       | NV            | -30              | -18.15         | -0.009641       | ±2.5        | PASS    |
| Band25      | 3MHz      | QPSK       | 26365   | 15RB#0       | NV            | -20              | -6.69          | -0.003554       | ±2.5        | PASS    |
| Band25      | 3MHz      | QPSK       | 26365   | 15RB#0       | NV            | -10              | -62.89         | -0.033408       | ±2.5        | PASS    |



|        |       |      |       |         |    |     |        |           |      |      |
|--------|-------|------|-------|---------|----|-----|--------|-----------|------|------|
| Band25 | 3MHz  | QPSK | 26365 | 15RB#0  | NV | 0   | -18.90 | -0.010040 | ±2.5 | PASS |
| Band25 | 3MHz  | QPSK | 26365 | 15RB#0  | NV | 10  | -8.84  | -0.004696 | ±2.5 | PASS |
| Band25 | 3MHz  | QPSK | 26365 | 15RB#0  | NV | 20  | -22.65 | -0.012032 | ±2.5 | PASS |
| Band25 | 3MHz  | QPSK | 26365 | 15RB#0  | NV | 30  | -20.11 | -0.010683 | ±2.5 | PASS |
| Band25 | 3MHz  | QPSK | 26365 | 15RB#0  | NV | 40  | 3.48   | 0.001849  | ±2.5 | PASS |
| Band25 | 3MHz  | QPSK | 26365 | 15RB#0  | NV | 50  | -18.38 | -0.009764 | ±2.5 | PASS |
| Band25 | 5MHz  | QPSK | 26365 | 25RB#0  | NV | -30 | -19.47 | -0.010343 | ±2.5 | PASS |
| Band25 | 5MHz  | QPSK | 26365 | 25RB#0  | NV | -20 | 5.54   | 0.002943  | ±2.5 | PASS |
| Band25 | 5MHz  | QPSK | 26365 | 25RB#0  | NV | -10 | -19.18 | -0.010189 | ±2.5 | PASS |
| Band25 | 5MHz  | QPSK | 26365 | 25RB#0  | NV | 0   | 2.40   | 0.001275  | ±2.5 | PASS |
| Band25 | 5MHz  | QPSK | 26365 | 25RB#0  | NV | 10  | -17.90 | -0.009509 | ±2.5 | PASS |
| Band25 | 5MHz  | QPSK | 26365 | 25RB#0  | NV | 20  | -9.40  | -0.004993 | ±2.5 | PASS |
| Band25 | 5MHz  | QPSK | 26365 | 25RB#0  | NV | 30  | -22.14 | -0.011761 | ±2.5 | PASS |
| Band25 | 5MHz  | QPSK | 26365 | 25RB#0  | NV | 40  | -18.15 | -0.009641 | ±2.5 | PASS |
| Band25 | 5MHz  | QPSK | 26365 | 25RB#0  | NV | 50  | -3.83  | -0.002035 | ±2.5 | PASS |
| Band25 | 10MHz | QPSK | 26365 | 50RB#0  | NV | -30 | -17.55 | -0.009323 | ±2.5 | PASS |
| Band25 | 10MHz | QPSK | 26365 | 50RB#0  | NV | -20 | -9.47  | -0.005031 | ±2.5 | PASS |
| Band25 | 10MHz | QPSK | 26365 | 50RB#0  | NV | -10 | -18.93 | -0.010056 | ±2.5 | PASS |
| Band25 | 10MHz | QPSK | 26365 | 50RB#0  | NV | 0   | 8.18   | 0.004345  | ±2.5 | PASS |
| Band25 | 10MHz | QPSK | 26365 | 50RB#0  | NV | 10  | -10.09 | -0.005360 | ±2.5 | PASS |
| Band25 | 10MHz | QPSK | 26365 | 50RB#0  | NV | 20  | -9.96  | -0.005291 | ±2.5 | PASS |
| Band25 | 10MHz | QPSK | 26365 | 50RB#0  | NV | 30  | -13.45 | -0.007145 | ±2.5 | PASS |
| Band25 | 10MHz | QPSK | 26365 | 50RB#0  | NV | 40  | -11.60 | -0.006162 | ±2.5 | PASS |
| Band25 | 10MHz | QPSK | 26365 | 50RB#0  | NV | 50  | 10.04  | 0.005333  | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | -30 | -23.03 | -0.012234 | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | -20 | -19.10 | -0.010146 | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | -10 | -13.95 | -0.007410 | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | 0   | -17.41 | -0.009248 | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | 10  | -8.90  | -0.004728 | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | 20  | -9.90  | -0.005259 | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | 30  | 12.43  | 0.006603  | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | 40  | -13.95 | -0.007410 | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | 50  | -19.86 | -0.010550 | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | -30 | -12.40 | -0.006587 | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | -20 | -10.94 | -0.005811 | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | -10 | -19.47 | -0.010343 | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | 0   | -24.79 | -0.013169 | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | 10  | -9.33  | -0.004956 | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | 20  | -21.54 | -0.011442 | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | 30  | -5.11  | -0.002714 | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | 40  | -12.09 | -0.006422 | ±2.5 | PASS |

|        |       |      |       |         |    |    |        |           |      |      |
|--------|-------|------|-------|---------|----|----|--------|-----------|------|------|
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | 50 | -24.42 | -0.012972 | ±2.5 | PASS |
|--------|-------|------|-------|---------|----|----|--------|-----------|------|------|