

## Appendix Test Data for SRD (Conducted Measurement)

Product Name: D84 Mechanical keyboard

Trade Mark: DUSTSILVER

Test Model: D84

FCC ID: 2A7D6-D84

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 22.7℃     |
| Relative Humidity: | 56%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Anna Hu   |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

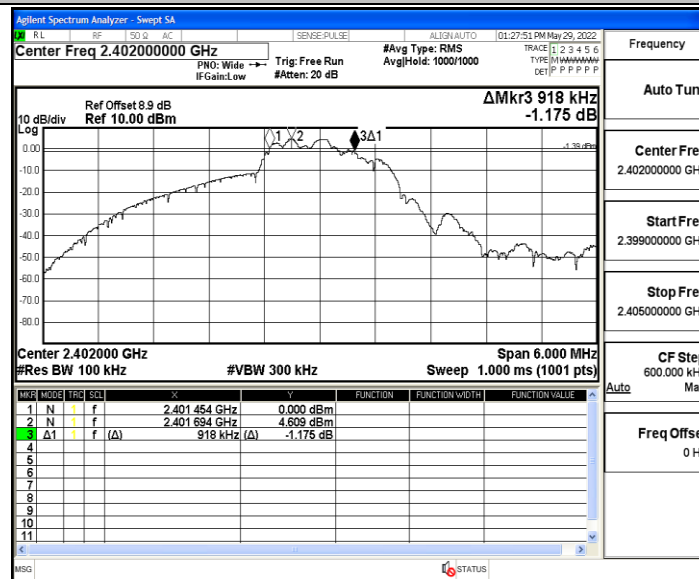
## Appendix A: DTS Bandwidth

### Test Result

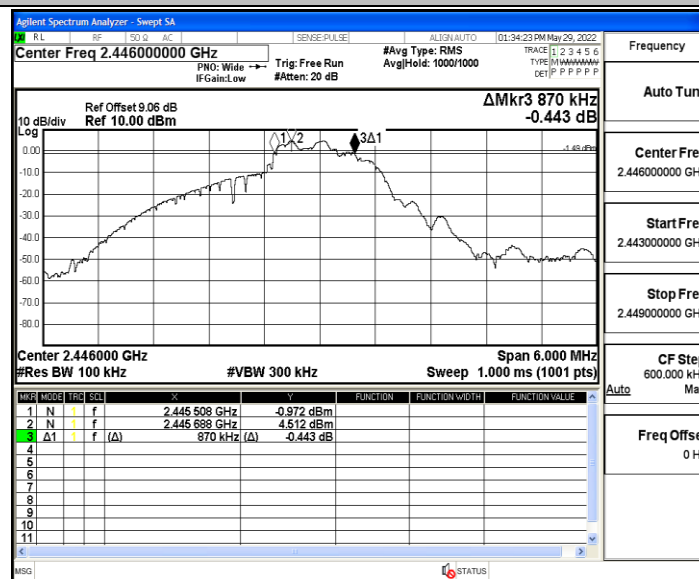
| TestMode | Antenna | Channel | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------------|----------|----------|------------|---------|
| SRD      | Ant1    | 2402    | 0.918           | 2401.454 | 2402.372 | 0.5        | PASS    |
|          |         | 2446    | 0.870           | 2445.508 | 2446.378 | 0.5        | PASS    |
|          |         | 2479    | 0.792           | 2478.568 | 2479.360 | 0.5        | PASS    |

## Test Graphs

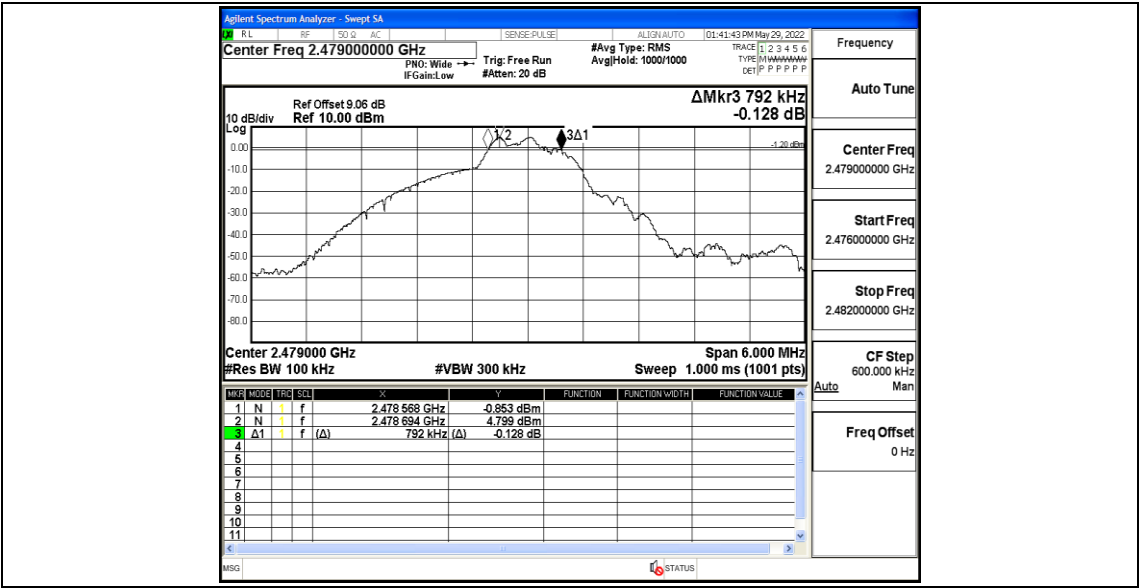
SRD\_Ant1\_2402



SRD\_Ant1\_2446



SRD\_Ant1\_2479



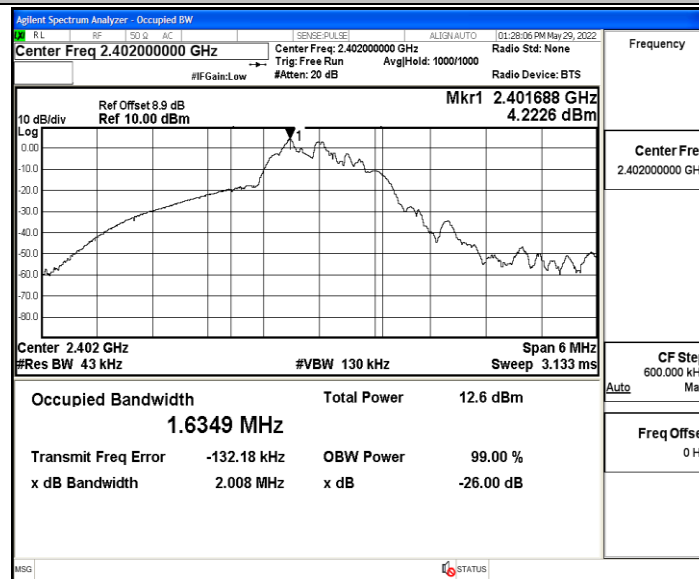
## Appendix B: Occupied Channel Bandwidth

### Test Result

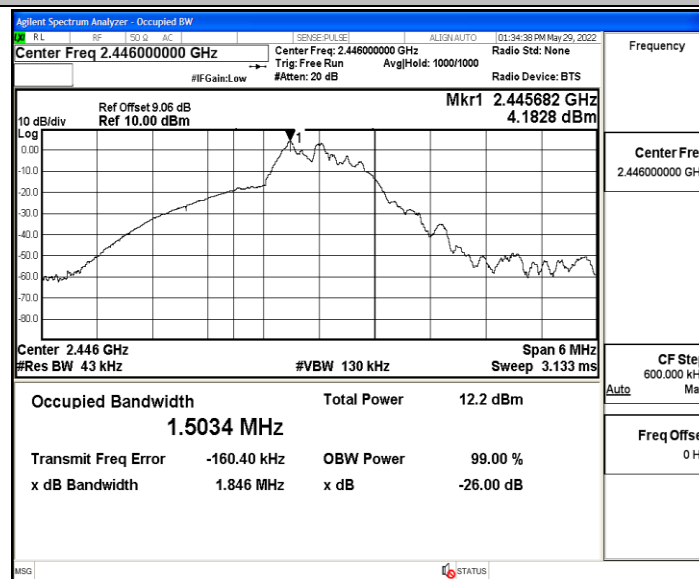
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| SRD      | Ant1    | 2402    | 1.6349    | 2401.050 | 2402.685 | ---        | ---     |
|          |         | 2446    | 1.5034    | 2445.088 | 2446.591 | ---        | ---     |
|          |         | 2479    | 1.4123    | 2478.135 | 2479.547 | ---        | ---     |

## Test Graphs

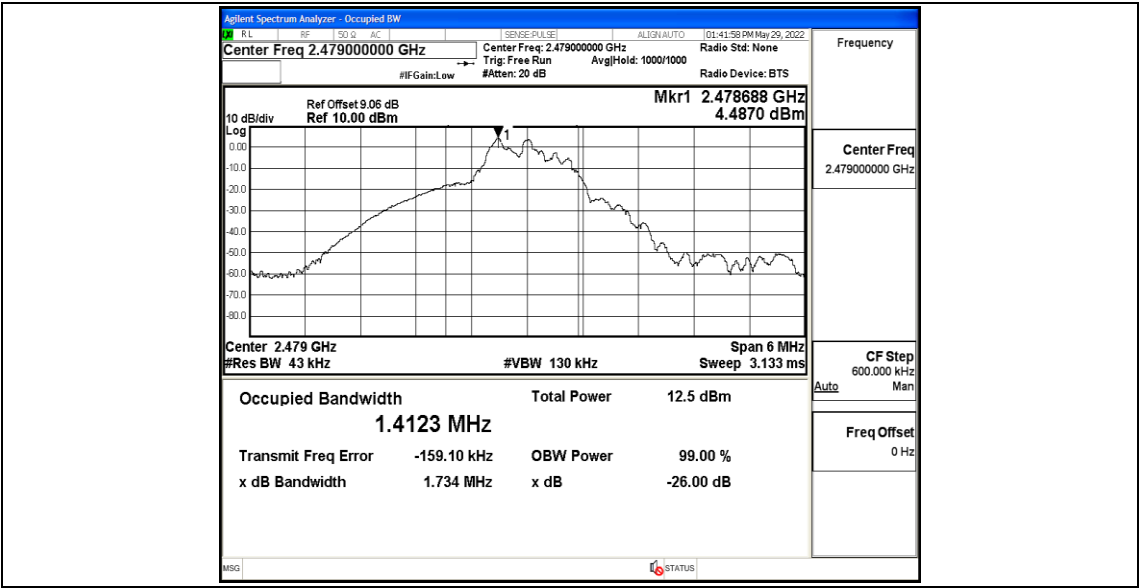
SRD\_Ant1\_2402



SRD\_Ant1\_2446



SRD\_Ant1\_2479

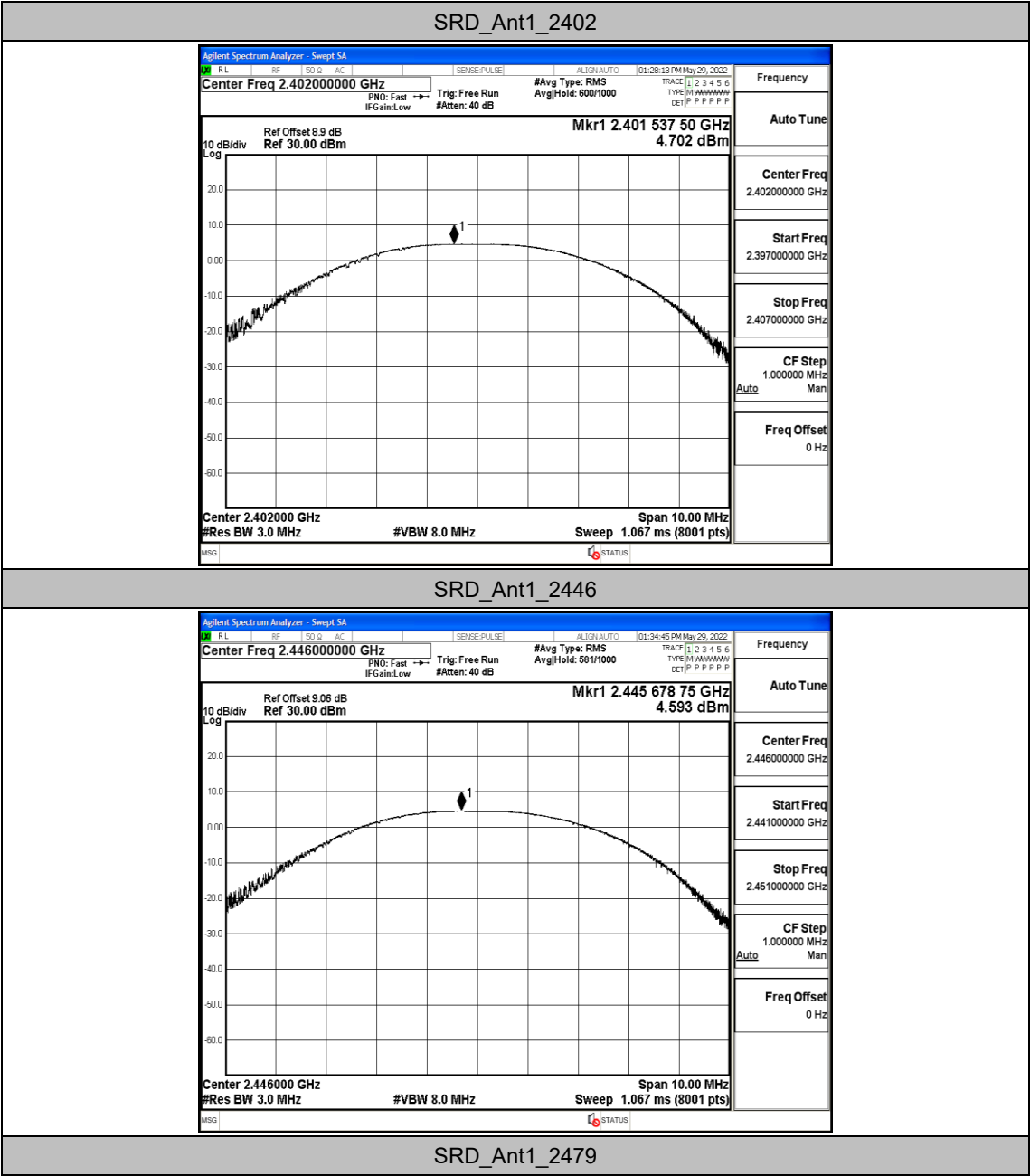


## Appendix C: Maximum Peak conducted output power

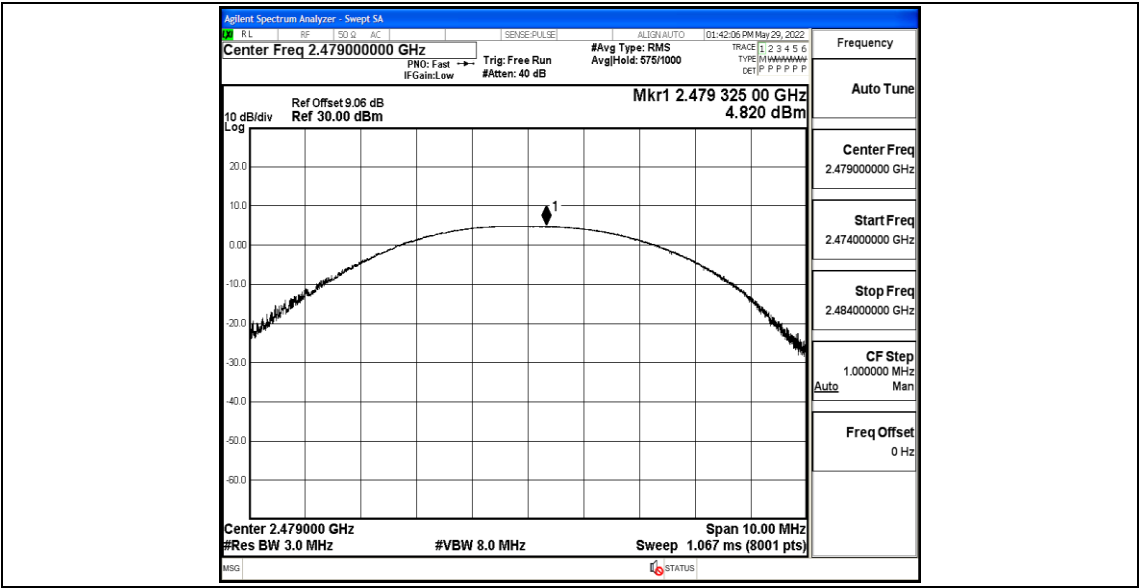
### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| SRD      | Ant1    | 2402    | 4.7         | ≤30        | PASS    |
|          |         | 2446    | 4.59        | ≤30        | PASS    |
|          |         | 2479    | 4.82        | ≤30        | PASS    |

Test Graphs





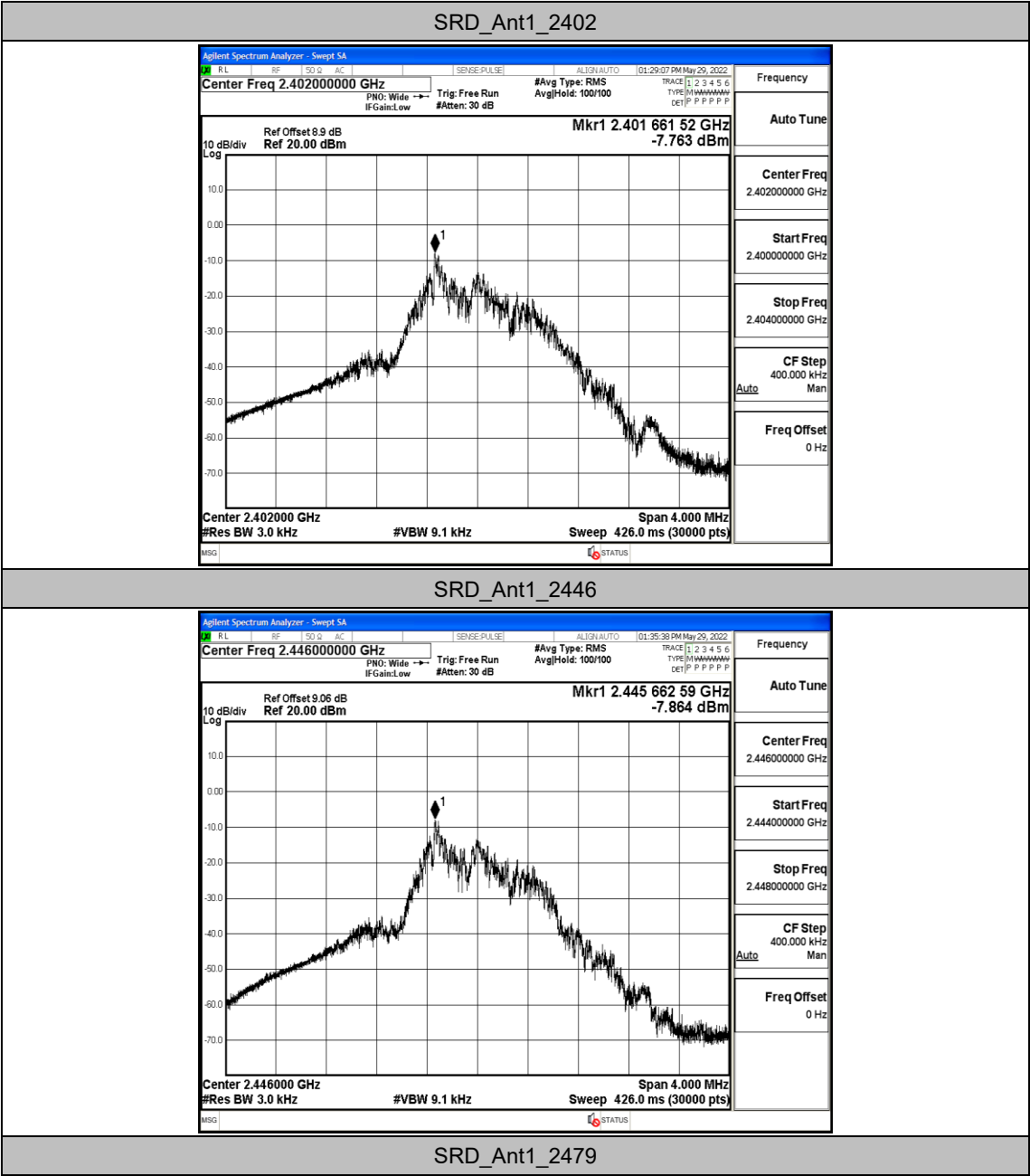


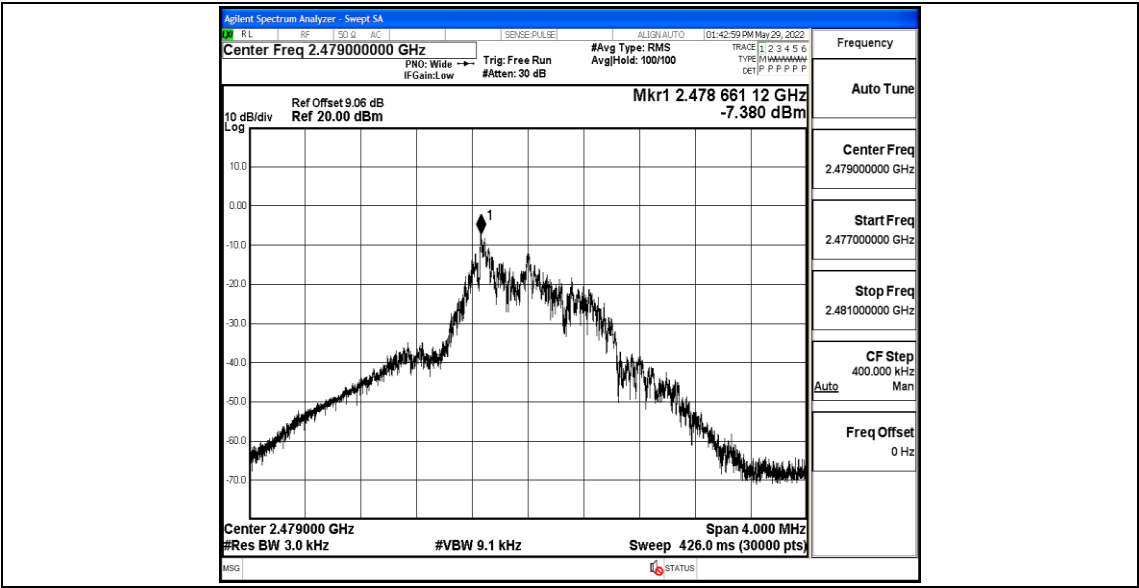
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|----------------------|-----------------|---------|
| SRD      | Ant1    | 2402    | -7.76                | ≤8.00           | PASS    |
|          |         | 2446    | -7.86                | ≤8.00           | PASS    |
|          |         | 2479    | -7.38                | ≤8.00           | PASS    |

Test Graphs





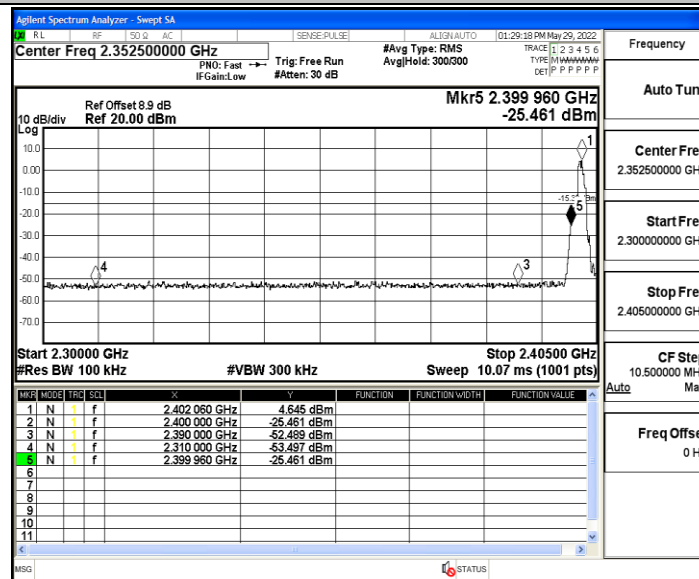
## Appendix E: Band edge measurements

### Test Result

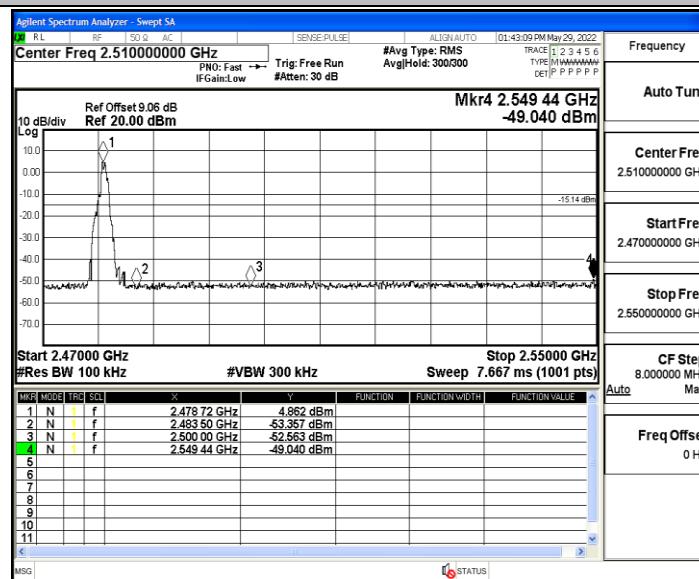
| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| SRD      | Ant1    | Low    | 2402    | 4.65          | -25.46      | ≤-15.36    | PASS    |
|          |         | High   | 2479    | 4.86          | -49.04      | ≤-15.14    | PASS    |

## Test Graphs

SRD\_Ant1\_Low\_2402



SRD\_Ant1\_High\_2479

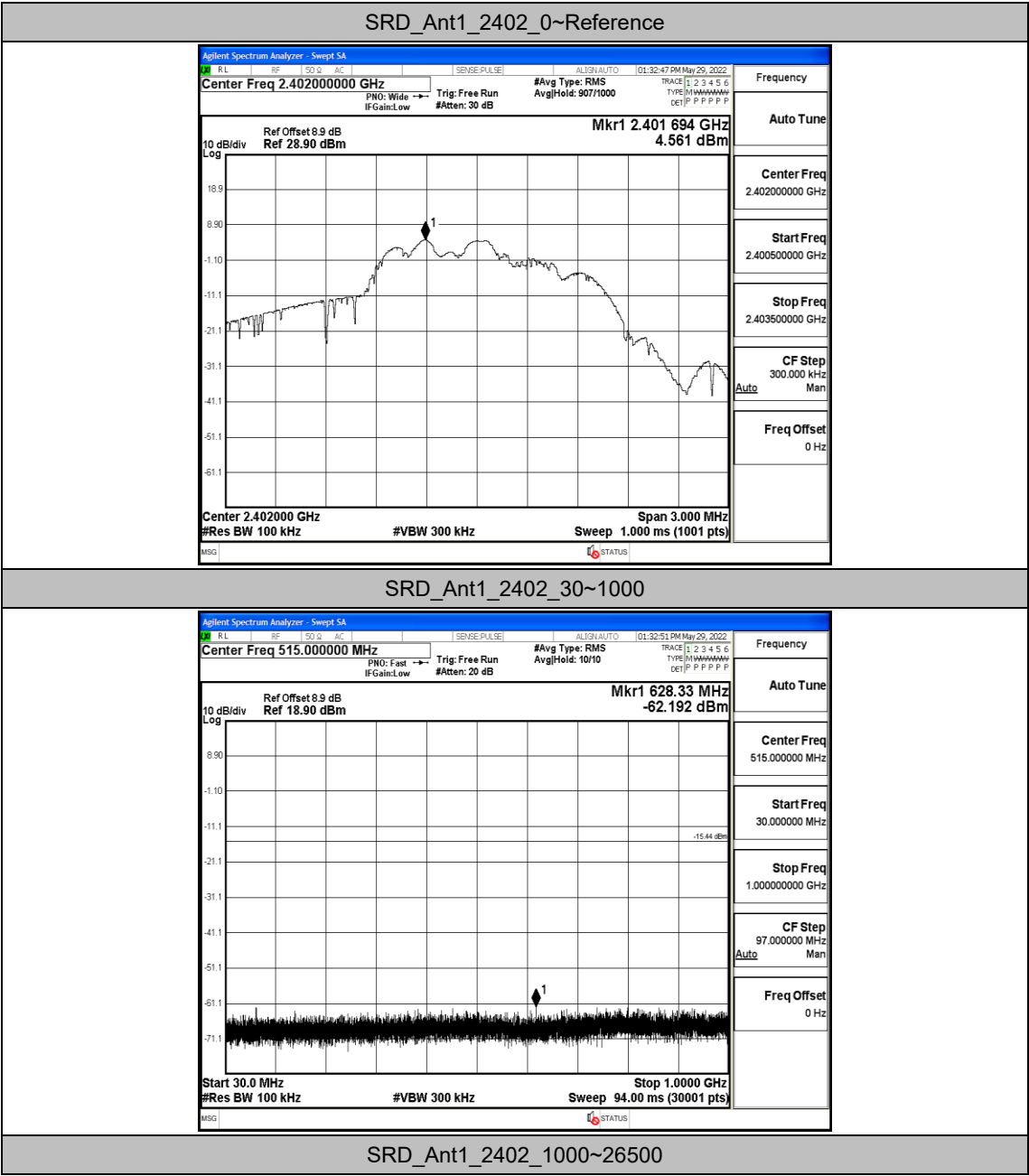


## Appendix F: Conducted Spurious Emission

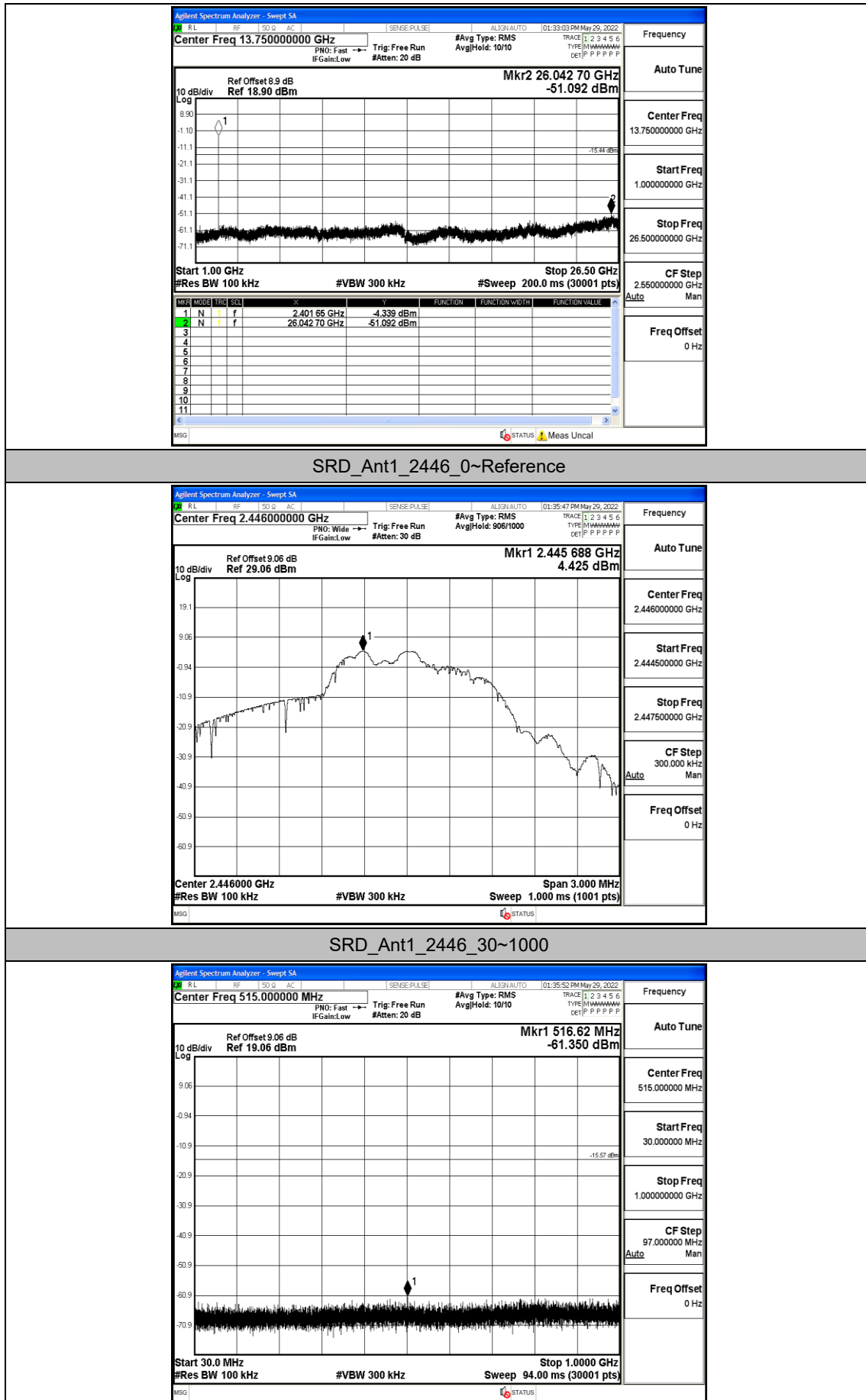
### Test Result

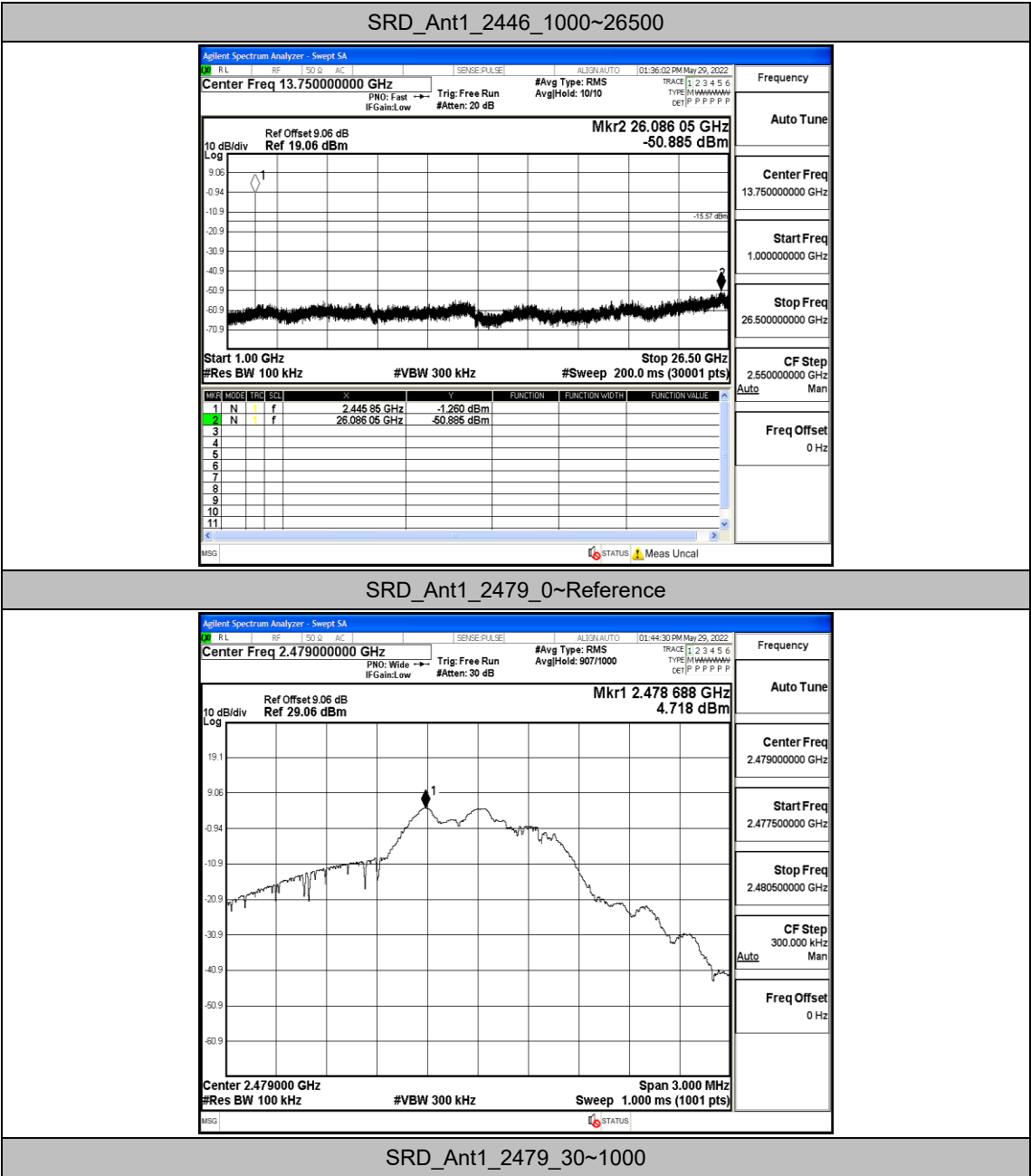
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
| SRD      | Ant1    | 2402    | Reference          | 4.56              | 4.56        | ---        | PASS    |
|          |         |         | 30~1000            | 4.56              | -62.19      | ≤-15.44    | PASS    |
|          |         |         | 1000~26500         | 4.56              | -51.09      | ≤-15.44    | PASS    |
|          |         | 2446    | Reference          | 4.43              | 4.43        | ---        | PASS    |
|          |         |         | 30~1000            | 4.43              | -61.35      | ≤-15.57    | PASS    |
|          |         |         | 1000~26500         | 4.43              | -50.89      | ≤-15.57    | PASS    |
|          |         | 2479    | Reference          | 4.72              | 4.72        | ---        | PASS    |
|          |         |         | 30~1000            | 4.72              | -61.89      | ≤-15.28    | PASS    |
|          |         |         | 1000~26500         | 4.72              | -51.74      | ≤-15.28    | PASS    |

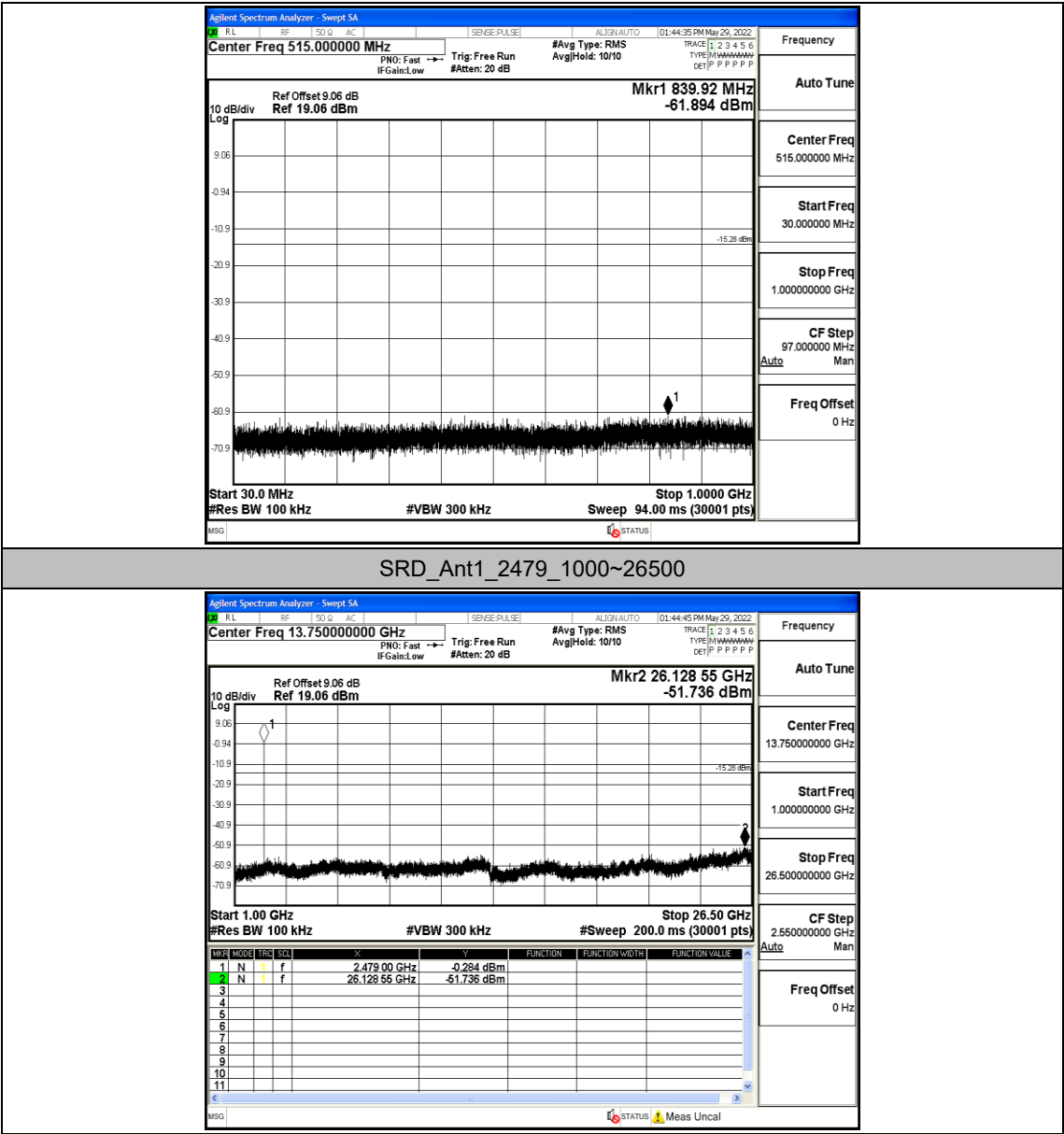
Test Graphs











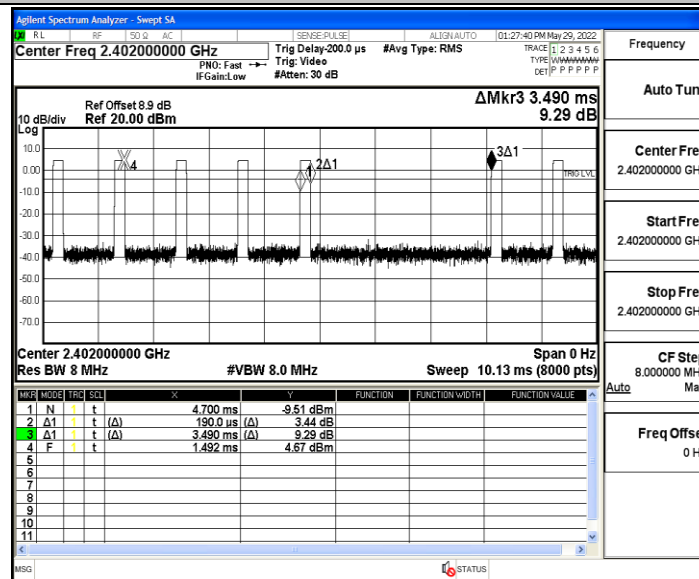
## Appendix G: Duty Cycle

### Test Result

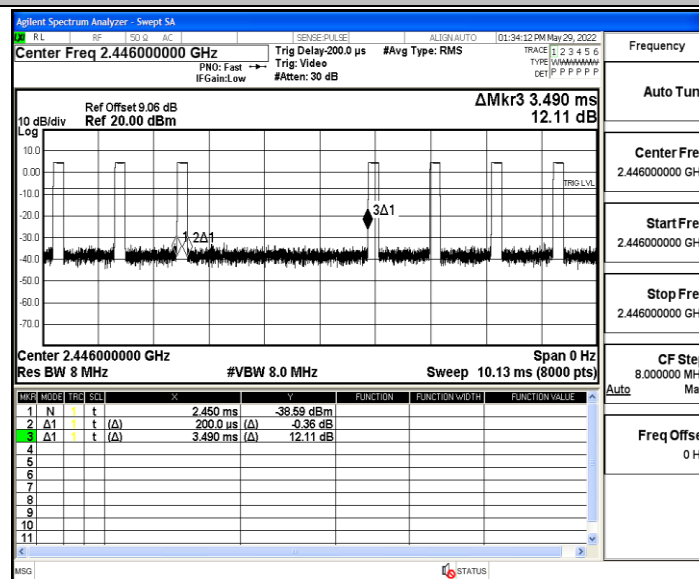
| TestMode | Antenna | Channel | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | 1/T  |
|----------|---------|---------|-------------------------------|-----------------------------|-------------------|------|
| SRD      | Ant1    | 2402    | 0.19                          | 3.49                        | 5.44              | 5.26 |
|          |         | 2446    | 0.20                          | 3.49                        | 5.73              | 5.00 |
|          |         | 2479    | 0.19                          | 3.49                        | 5.44              | 5.26 |

## Test Graphs

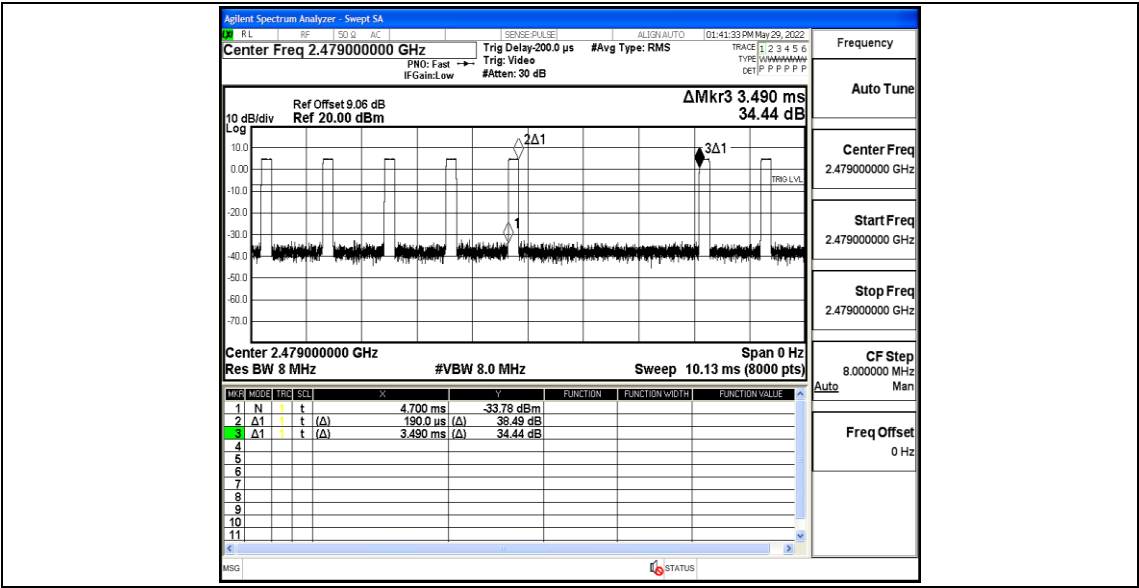
SRD\_Ant1\_2402



SRD\_Ant1\_2446



SRD\_Ant1\_2479



## Appendix H: Emissions in Restricted Bands

### Test Result

| TestMode | Antenna | ChName | Channel | Detector | Freq.<br>[MHz] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|---------|----------|----------------|-----------------|----------------|---------|
| SRD      | Ant1    | Low    | 2402    | Peak     | 2310.000       | -41.69          | ≤-21.20        | PASS    |
|          |         |        |         | Peak     | 2357.855       | -38.59          | ≤-21.20        | PASS    |
|          |         |        |         | Peak     | 2390.000       | -42.54          | ≤-21.20        | PASS    |
|          |         | High   | 2479    | Peak     | 2483.500       | -41.05          | ≤-21.20        | PASS    |
|          |         |        |         | Peak     | 2497.280       | -38.88          | ≤-21.20        | PASS    |
|          |         |        |         | Peak     | 2500.000       | -40.61          | ≤-21.20        | PASS    |

Note:

1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

