

## Appendix A1: Emission Bandwidth

### Test Result

| TestMode  | Antenna | Frequency[MHz] | 26db EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|-------------------|----------|----------|------------|---------|
| 11A       | Ant1    | 5745           | 19.400            | 5735.520 | 5754.920 | ---        | ---     |
| 11A       | Ant1    | 5785           | 19.400            | 5775.400 | 5794.800 | ---        | ---     |
| 11A       | Ant1    | 5825           | 19.360            | 5815.240 | 5834.600 | ---        | ---     |
| 11N20SISO | Ant1    | 5745           | 20.560            | 5734.560 | 5755.120 | ---        | ---     |
| 11N20SISO | Ant1    | 5785           | 20.240            | 5774.960 | 5795.200 | ---        | ---     |
| 11N20SISO | Ant1    | 5825           | 20.560            | 5814.680 | 5835.240 | ---        | ---     |

## Test Graphs



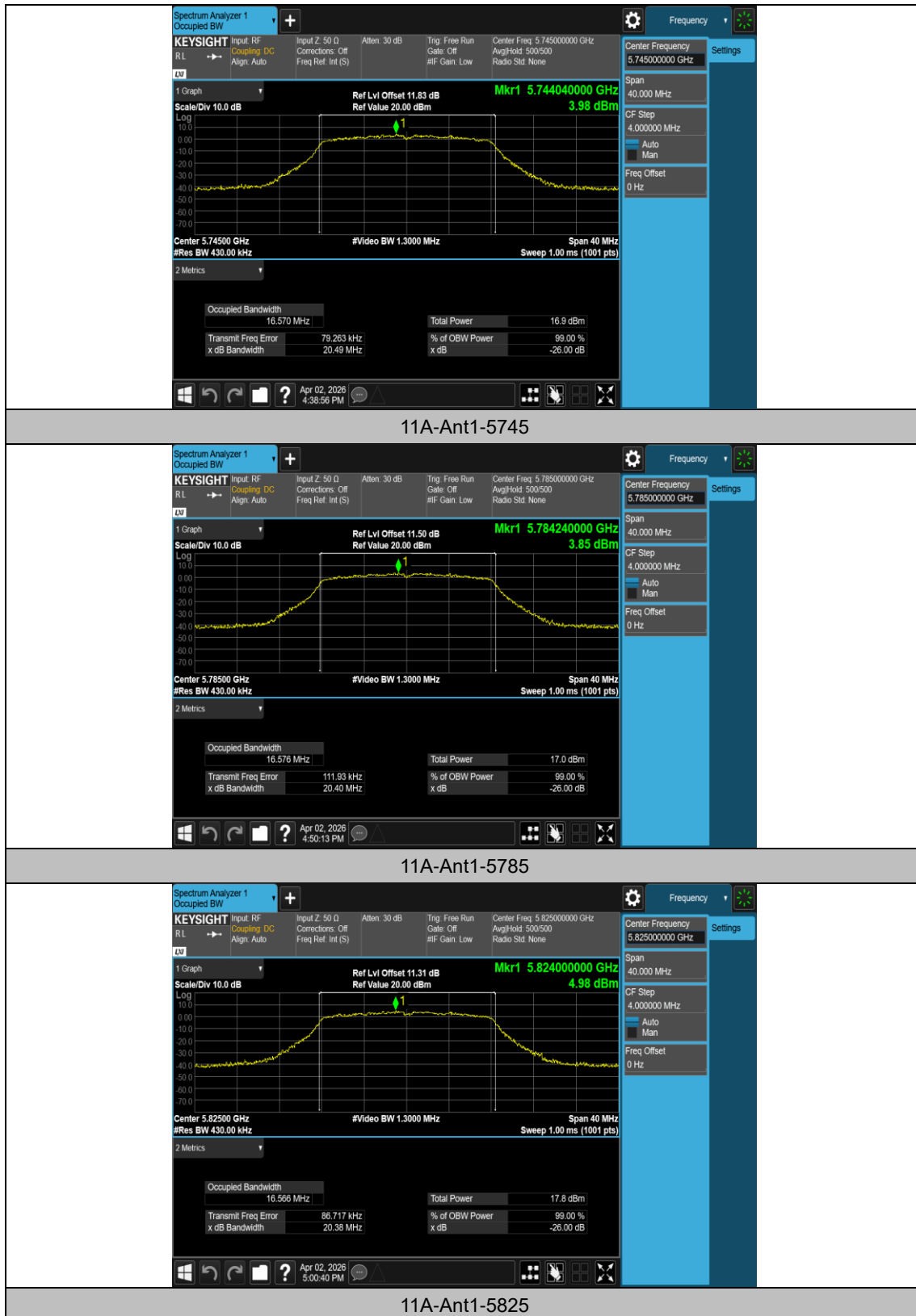


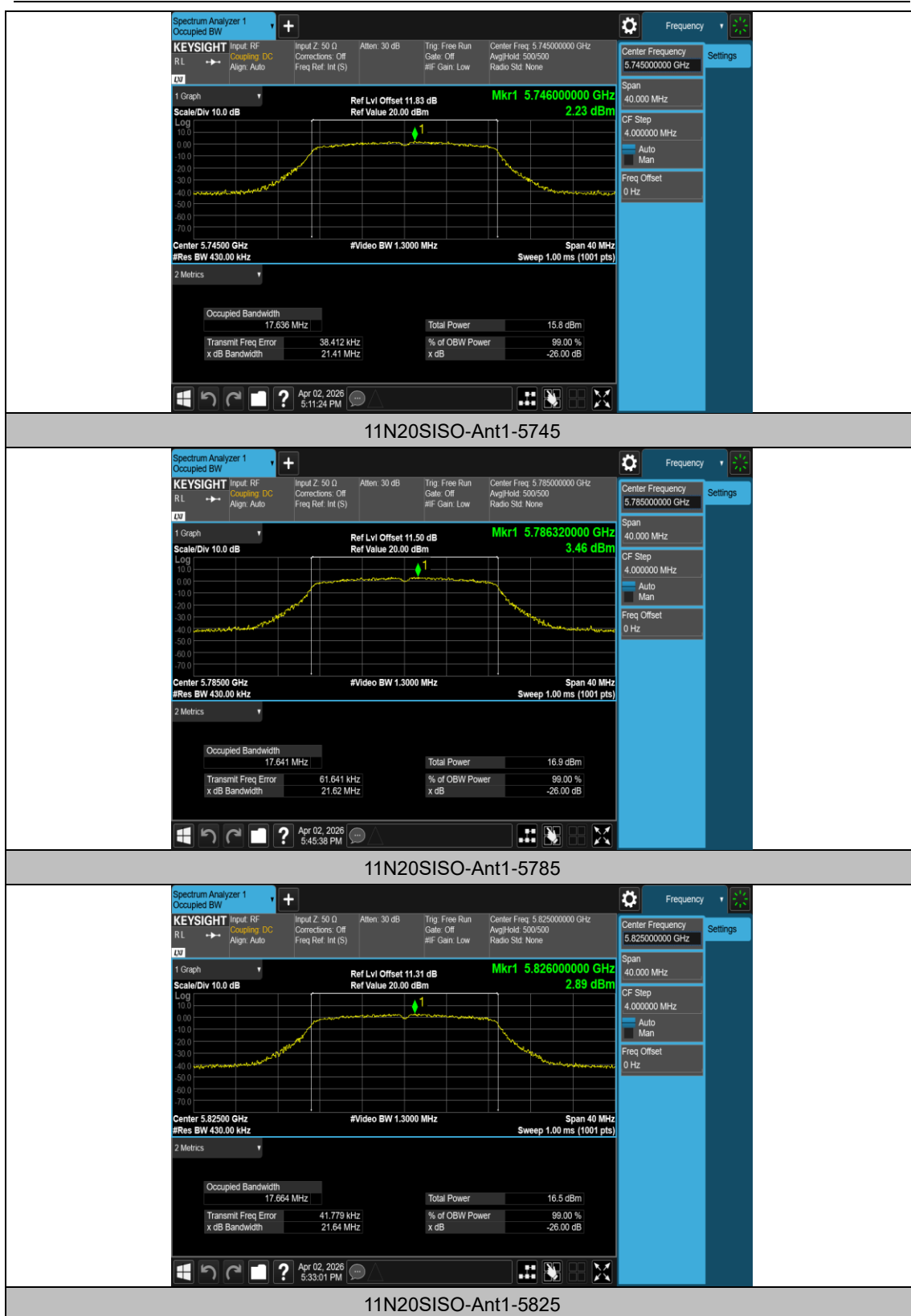
## Appendix A2: Occupied channel bandwidth

### Test Result

| TestMode  | Antenna | Frequency[MHz] | OCB<br>[MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|-----------|-----------|------------|---------|
| 11A       | Ant1    | 5745           | 16.570       | 5736.7943 | 5753.3643 | ---        | ---     |
| 11A       | Ant1    | 5785           | 16.576       | 5776.8239 | 5793.3999 | ---        | ---     |
| 11A       | Ant1    | 5825           | 16.566       | 5816.8037 | 5833.3697 | ---        | ---     |
| 11N20SISO | Ant1    | 5745           | 17.636       | 5736.2204 | 5753.8564 | ---        | ---     |
| 11N20SISO | Ant1    | 5785           | 17.641       | 5776.2411 | 5793.8821 | ---        | ---     |
| 11N20SISO | Ant1    | 5825           | 17.664       | 5816.2098 | 5833.8738 | ---        | ---     |

## Test Graphs





## Appendix A3: Min emission bandwidth

### Test Result B4

| TestMode  | Antenna | Frequency[MHz] | 6db EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|------------------|----------|----------|------------|---------|
| 11A       | Ant1    | 5745           | 14.000           | 5738.520 | 5752.520 | 0.5        | PASS    |
| 11A       | Ant1    | 5785           | 11.320           | 5780.000 | 5791.320 | 0.5        | PASS    |
| 11A       | Ant1    | 5825           | 12.560           | 5820.040 | 5832.600 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 5745           | 15.600           | 5737.200 | 5752.800 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 5785           | 13.840           | 5778.720 | 5792.560 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 5825           | 15.080           | 5817.520 | 5832.600 | 0.5        | PASS    |

## Test Graphs B4




**11N20SISO-Ant1-5745-PASS**

**11N20SISO-Ant1-5785-PASS**

**11N20SISO-Ant1-5825-PASS**

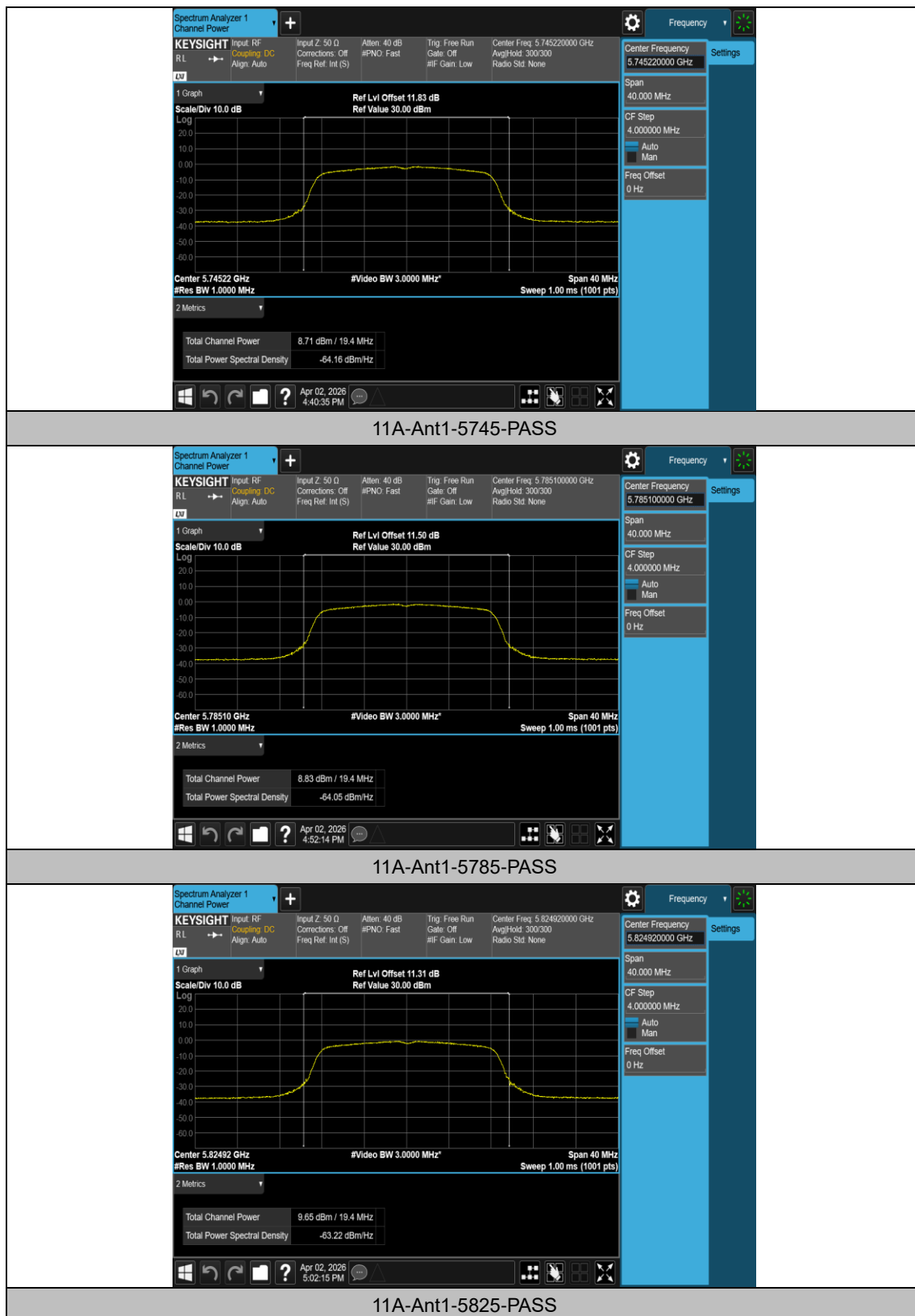
## Appendix B: Maximum conducted output power

### Test Result Channel Power

| Test Mode | Antenna | Frequency[ MHz] | Channel Power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|---------------------|----------------|-----------------|--------------|-------------|---------|
| 11A       | Ant1    | 5745            | 8.71                | 73.12          | 1.36            | 10.07        | ≤30.00      | PASS    |
| 11A       | Ant1    | 5785            | 8.83                | 73.12          | 1.36            | 10.19        | ≤30.00      | PASS    |
| 11A       | Ant1    | 5825            | 9.65                | 73.12          | 1.36            | 11.01        | ≤30.00      | PASS    |
| 11N20SISO | Ant1    | 5745            | 7.77                | 71.35          | 1.47            | 9.24         | ≤30.00      | PASS    |
| 11N20SISO | Ant1    | 5785            | 8.66                | 71.75          | 1.44            | 10.10        | ≤30.00      | PASS    |
| 11N20SISO | Ant1    | 5825            | 8.49                | 71.91          | 1.43            | 9.92         | ≤30.00      | PASS    |

Note: The Duty Cycle Factor is compensated in the graph.

## Test Graphs Channel Power





## Appendix D: Maximum power spectral density

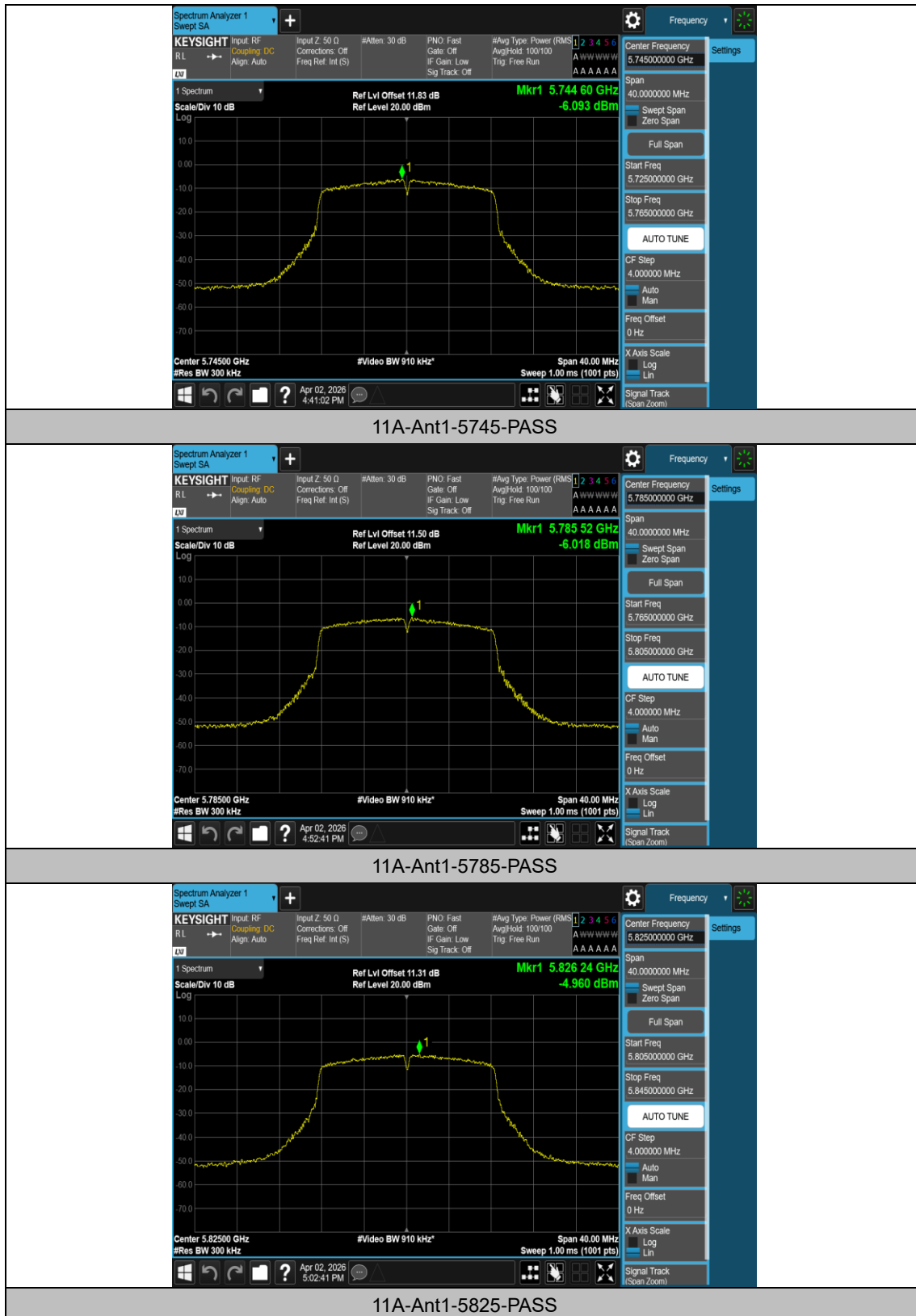
### Test Result

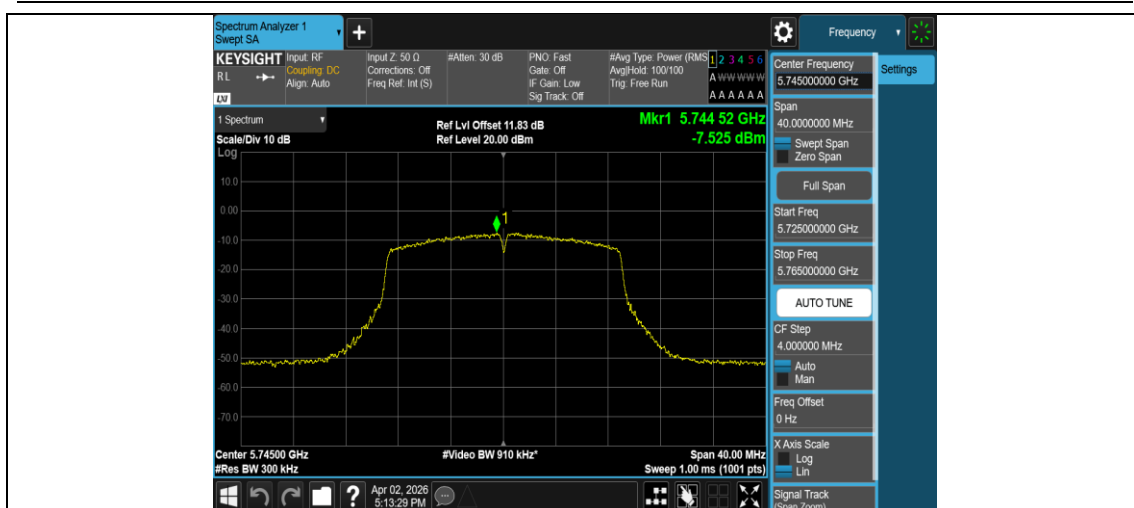
| TestMode  | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|-----------|---------|----------------|------------------|----------------|---------|
| 11A       | Ant1    | 5745           | -2.51            | ≤30.00         | PASS    |
| 11A       | Ant1    | 5785           | -2.44            | ≤30.00         | PASS    |
| 11A       | Ant1    | 5825           | -1.38            | ≤30.00         | PASS    |
| 11N20SISO | Ant1    | 5745           | -3.84            | ≤30.00         | PASS    |
| 11N20SISO | Ant1    | 5785           | -2.47            | ≤30.00         | PASS    |
| 11N20SISO | Ant1    | 5825           | -2.91            | ≤30.00         | PASS    |

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

## Test Graphs





**11N20SISO-Ant1-5745-PASS**



**11N20SISO-Ant1-5785-PASS**



**11N20SISO-Ant1-5825-PASS**

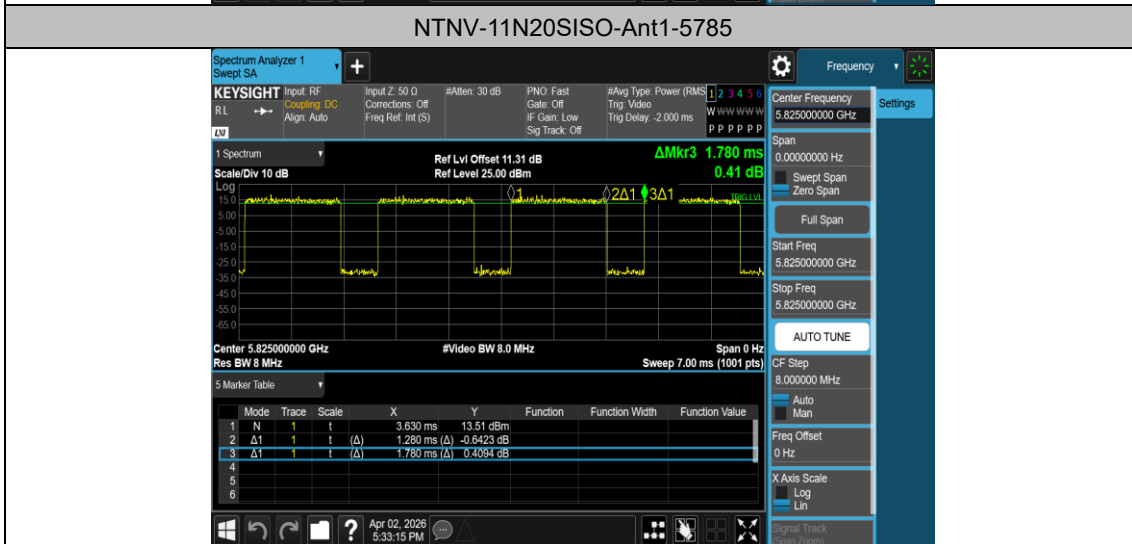
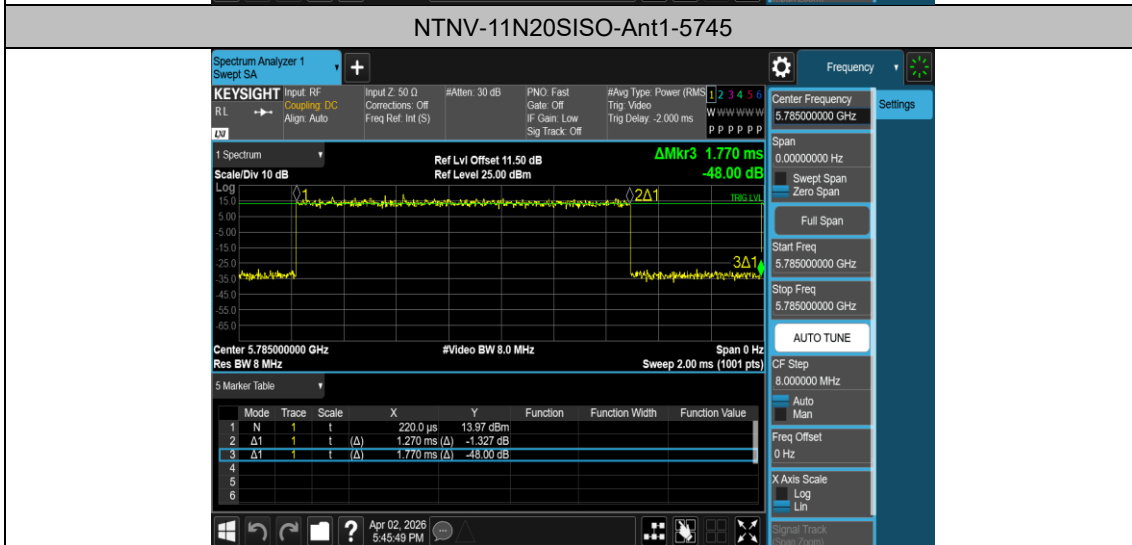
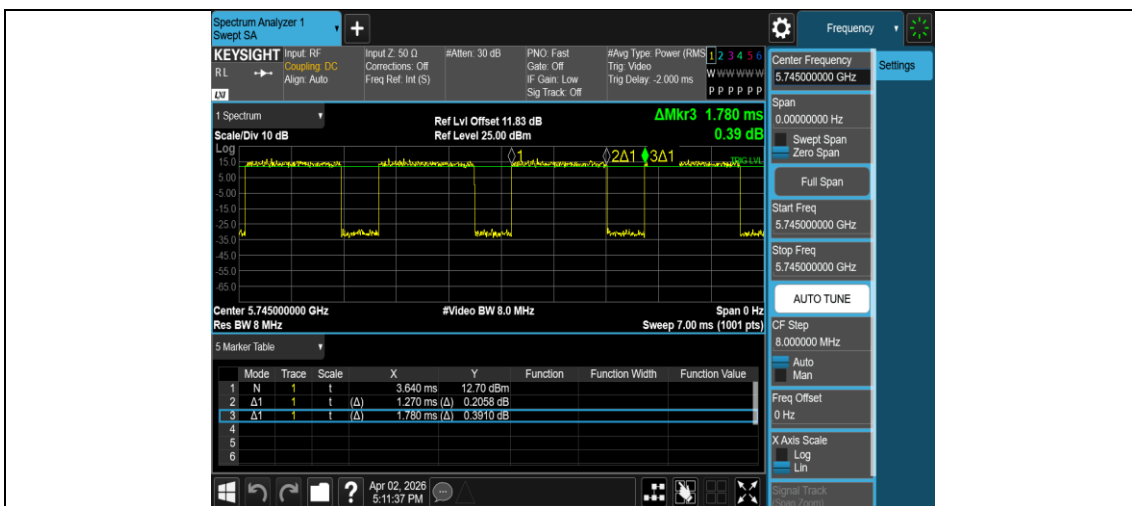
## Appendix B: Duty Cycle

### Test Result

| TestMode  | Antenna | Frequency[MHz] | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] |
|-----------|---------|----------------|-------------------------------|-----------------------------|-------------------|
| 11A       | Ant1    | 5745           | 1.36                          | 1.86                        | 73.12             |
| 11A       | Ant1    | 5785           | 1.36                          | 1.86                        | 73.12             |
| 11A       | Ant1    | 5825           | 1.36                          | 1.86                        | 73.12             |
| 11N20SISO | Ant1    | 5745           | 1.27                          | 1.78                        | 71.35             |
| 11N20SISO | Ant1    | 5785           | 1.27                          | 1.77                        | 71.75             |
| 11N20SISO | Ant1    | 5825           | 1.28                          | 1.78                        | 71.91             |

## Test Graphs





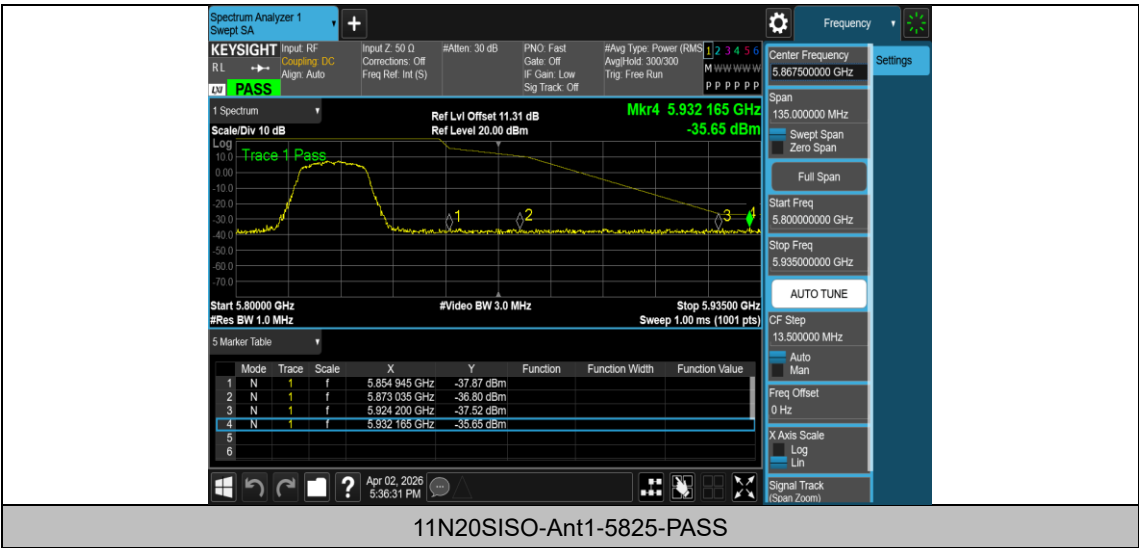
## Appendix E: Band edge measurements

### Test Result B4

| TestMode      | Antenna | ChName | Frequency[MHz] | FreqRange [MHz] | Result [dBm] | Limit [dBm] | Verdict |
|---------------|---------|--------|----------------|-----------------|--------------|-------------|---------|
| 11A           | Ant1    | Low    | 5745           | 5720~5725       | -37.83       | ≤16.08      | PASS    |
| 11A           | Ant1    | Low    | 5745           | 5700~5720       | -37.13       | ≤10.86      | PASS    |
| 11A           | Ant1    | Low    | 5745           | 5650~5700       | -37.46       | ≤-26.96     | PASS    |
| 11A           | Ant1    | Low    | 5745           | 5645~5650       | -35.84       | ≤-27        | PASS    |
| 11A           | Ant1    | High   | 5825           | 5850~5855       | -38.17       | ≤15.73      | PASS    |
| 11A           | Ant1    | High   | 5825           | 5855~5875       | -36.17       | ≤10.93      | PASS    |
| 11A           | Ant1    | High   | 5825           | 5875~5925       | -37.34       | ≤-26.91     | PASS    |
| 11A           | Ant1    | High   | 5825           | 5925~5935       | -35.8        | ≤-27        | PASS    |
| 11N20SIS<br>O | Ant1    | Low    | 5745           | 5720~5725       | -37.46       | ≤16.60      | PASS    |
| 11N20SIS<br>O | Ant1    | Low    | 5745           | 5700~5720       | -37.35       | ≤10.15      | PASS    |
| 11N20SIS<br>O | Ant1    | Low    | 5745           | 5650~5700       | -36.69       | ≤-26.45     | PASS    |
| 11N20SIS<br>O | Ant1    | Low    | 5745           | 5645~5650       | -36.33       | ≤-27        | PASS    |
| 11N20SIS<br>O | Ant1    | High   | 5825           | 5850~5855       | -37.87       | ≤15.73      | PASS    |
| 11N20SIS<br>O | Ant1    | High   | 5825           | 5855~5875       | -36.8        | ≤10.55      | PASS    |
| 11N20SIS<br>O | Ant1    | High   | 5825           | 5875~5925       | -37.52       | ≤-26.41     | PASS    |
| 11N20SIS<br>O | Ant1    | High   | 5825           | 5925~5935       | -35.65       | ≤-27        | PASS    |

## Test Graphs B4





## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Frequency[MHz] | FreqRange [MHz] | Max. Fre [MHz] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|------------------|-------------|---------|
| 11A       | Ant1    | 5745           | 30~5650         | 2444.73        | -40.06           | ≤-27        | PASS    |
| 11A       | Ant1    | 5745           | 5925~40000      | 38204.25       | -37.75           | ≤-27        | PASS    |
| 11A       | Ant1    | 5785           | 30~5650         | 3679.63        | -44.25           | ≤-27        | PASS    |
| 11A       | Ant1    | 5785           | 5925~40000      | 38015.7        | -37.53           | ≤-27        | PASS    |
| 11A       | Ant1    | 5825           | 30~5650         | 3816.38        | -44.18           | ≤-27        | PASS    |
| 11A       | Ant1    | 5825           | 5925~40000      | 38656.31       | -37.98           | ≤-27        | PASS    |
| 11N20SISO | Ant1    | 5745           | 30~5650         | 2468.33        | -38.39           | ≤-27        | PASS    |
| 11N20SISO | Ant1    | 5745           | 5925~40000      | 38702.88       | -37.35           | ≤-27        | PASS    |
| 11N20SISO | Ant1    | 5785           | 30~5650         | 2468.52        | -37.57           | ≤-27        | PASS    |
| 11N20SISO | Ant1    | 5785           | 5925~40000      | 38676.75       | -37.04           | ≤-27        | PASS    |
| 11N20SISO | Ant1    | 5825           | 30~5650         | 3822.38        | -44.39           | ≤-27        | PASS    |
| 11N20SISO | Ant1    | 5825           | 5925~40000      | 38650.63       | -38.17           | ≤-27        | PASS    |

## Test Graphs

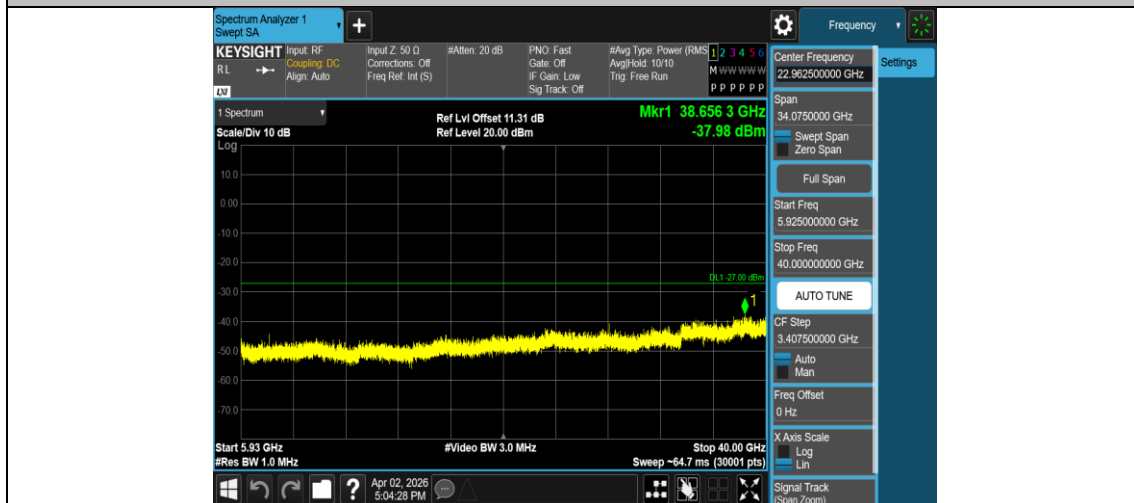




11A-Ant1-5785-5925~40000-PASS

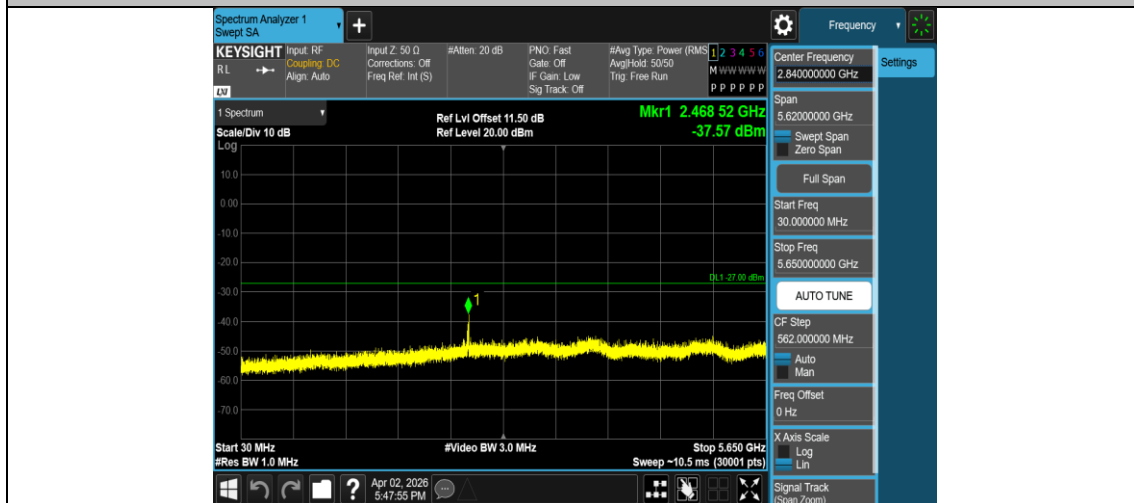


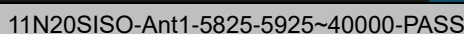
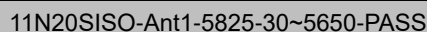
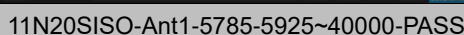
11A-Ant1-5825-30~5650-PASS



11A-Ant1-5825-5925~40000-PASS


**11N20SISO-Ant1-5745-30~5650-PASS**

**11N20SISO-Ant1-5745-5925~40000-PASS**

**11N20SISO-Ant1-5785-30~5650-PASS**



## Appendix G: Frequency Stability

### Test Result

NV=5V, LV=4.25V, HV=5.75V

| TestMode  | Antenna | Frequency [MHz] | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|---------|-----------------|---------------|------------------|----------------|-----------------|-------------|---------|
| 11A       | Ant1    | 5745            | NV            | NT               | 60000.00       | 10.443864       | 20          | PASS    |
| 11A       | Ant1    | 5745            | LV            | NT               | 60000.00       | 10.443864       | 20          | PASS    |
| 11A       | Ant1    | 5745            | HV            | NT               | 80000.00       | 13.925152       | 20          | PASS    |
| 11A       | Ant1    | 5785            | NV            | NT               | 80000.00       | 13.828868       | 20          | PASS    |
| 11A       | Ant1    | 5785            | LV            | NT               | 80000.00       | 13.828868       | 20          | PASS    |
| 11A       | Ant1    | 5785            | HV            | NT               | 60000.00       | 10.371651       | 20          | PASS    |
| 11A       | Ant1    | 5825            | NV            | NT               | 40000.00       | 6.866953        | 20          | PASS    |
| 11A       | Ant1    | 5825            | LV            | NT               | 40000.00       | 6.866953        | 20          | PASS    |
| 11A       | Ant1    | 5825            | HV            | NT               | 40000.00       | 6.866953        | 20          | PASS    |
| 11N20SISO | Ant1    | 5745            | NV            | NT               | 20000.00       | 3.481288        | 20          | PASS    |
| 11N20SISO | Ant1    | 5745            | LV            | NT               | 40000.00       | 6.962576        | 20          | PASS    |
| 11N20SISO | Ant1    | 5745            | HV            | NT               | 40000.00       | 6.962576        | 20          | PASS    |
| 11N20SISO | Ant1    | 5785            | NV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
| 11N20SISO | Ant1    | 5785            | LV            | NT               | 40000.00       | 6.914434        | 20          | PASS    |
| 11N20SISO | Ant1    | 5785            | HV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
| 11N20SISO | Ant1    | 5825            | NV            | NT               | 40000.00       | 6.866953        | 20          | PASS    |
| 11N20SISO | Ant1    | 5825            | LV            | NT               | 40000.00       | 6.866953        | 20          | PASS    |
| 11N20SISO | Ant1    | 5825            | HV            | NT               | 80000.00       | 13.733906       | 20          | PASS    |

| TestMode | Antenna | Frequency [MHz] | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|----------|---------|-----------------|---------------|------------------|----------------|-----------------|-------------|---------|
| 11A      | Ant1    | 5745            | NV            | -30              | 60000.00       | 10.443864       | 20          | PASS    |
| 11A      | Ant1    | 5745            | NV            | -20              | 60000.00       | 10.443864       | 20          | PASS    |
| 11A      | Ant1    | 5745            | NV            | -10              | 60000.00       | 10.443864       | 20          | PASS    |
| 11A      | Ant1    | 5745            | NV            | 0                | 60000.00       | 10.443864       | 20          | PASS    |
| 11A      | Ant1    | 5745            | NV            | 10               | 40000.00       | 6.962576        | 20          | PASS    |
| 11A      | Ant1    | 5745            | NV            | 20               | 40000.00       | 6.962576        | 20          | PASS    |

|               |      |      |    |     |           |           |    |      |
|---------------|------|------|----|-----|-----------|-----------|----|------|
| 11A           | Ant1 | 5745 | NV | 30  | 60000.00  | 10.443864 | 20 | PASS |
| 11A           | Ant1 | 5745 | NV | 40  | 40000.00  | 6.962576  | 20 | PASS |
| 11A           | Ant1 | 5745 | NV | 50  | 60000.00  | 10.443864 | 20 | PASS |
| 11A           | Ant1 | 5785 | NV | -30 | 40000.00  | 6.914434  | 20 | PASS |
| 11A           | Ant1 | 5785 | NV | -20 | 60000.00  | 10.371651 | 20 | PASS |
| 11A           | Ant1 | 5785 | NV | -10 | 60000.00  | 10.371651 | 20 | PASS |
| 11A           | Ant1 | 5785 | NV | 0   | 40000.00  | 6.914434  | 20 | PASS |
| 11A           | Ant1 | 5785 | NV | 10  | 40000.00  | 6.914434  | 20 | PASS |
| 11A           | Ant1 | 5785 | NV | 20  | 60000.00  | 10.371651 | 20 | PASS |
| 11A           | Ant1 | 5785 | NV | 30  | 80000.00  | 13.828868 | 20 | PASS |
| 11A           | Ant1 | 5785 | NV | 40  | 60000.00  | 10.371651 | 20 | PASS |
| 11A           | Ant1 | 5785 | NV | 50  | 40000.00  | 6.914434  | 20 | PASS |
| 11A           | Ant1 | 5825 | NV | -30 | 40000.00  | 6.866953  | 20 | PASS |
| 11A           | Ant1 | 5825 | NV | -20 | 40000.00  | 6.866953  | 20 | PASS |
| 11A           | Ant1 | 5825 | NV | -10 | 40000.00  | 6.866953  | 20 | PASS |
| 11A           | Ant1 | 5825 | NV | 0   | 60000.00  | 10.300429 | 20 | PASS |
| 11A           | Ant1 | 5825 | NV | 10  | 40000.00  | 6.866953  | 20 | PASS |
| 11A           | Ant1 | 5825 | NV | 20  | 40000.00  | 6.866953  | 20 | PASS |
| 11A           | Ant1 | 5825 | NV | 30  | 60000.00  | 10.300429 | 20 | PASS |
| 11A           | Ant1 | 5825 | NV | 40  | 40000.00  | 6.866953  | 20 | PASS |
| 11A           | Ant1 | 5825 | NV | 50  | 60000.00  | 10.300429 | 20 | PASS |
| 11N20SIS<br>O | Ant1 | 5745 | NV | -30 | 40000.00  | 6.962576  | 20 | PASS |
| 11N20SIS<br>O | Ant1 | 5745 | NV | -20 | 20000.00  | 3.481288  | 20 | PASS |
| 11N20SIS<br>O | Ant1 | 5745 | NV | -10 | 40000.00  | 6.962576  | 20 | PASS |
| 11N20SIS<br>O | Ant1 | 5745 | NV | 0   | 40000.00  | 6.962576  | 20 | PASS |
| 11N20SIS<br>O | Ant1 | 5745 | NV | 10  | 20000.00  | 3.481288  | 20 | PASS |
| 11N20SIS<br>O | Ant1 | 5745 | NV | 20  | -20000.00 | -3.481288 | 20 | PASS |
| 11N20SIS<br>O | Ant1 | 5745 | NV | 30  | 0.00      | 0.000000  | 20 | PASS |
| 11N20SIS<br>O | Ant1 | 5745 | NV | 40  | 40000.00  | 6.962576  | 20 | PASS |
| 11N20SIS<br>O | Ant1 | 5745 | NV | 50  | 40000.00  | 6.962576  | 20 | PASS |
| 11N20SIS<br>O | Ant1 | 5785 | NV | -30 | 40000.00  | 6.914434  | 20 | PASS |
| 11N20SIS<br>O | Ant1 | 5785 | NV | -20 | 40000.00  | 6.914434  | 20 | PASS |