



## Appendix E

### RF Test Data for 5.8GWIFI (Conducted Measurement)

**Product Name:** Tablet

**Test Model:** 10LA2

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8° C   |
| Relative Humidity: | 52.1%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Nick Peng |
| Supervised by:     | Ling Zhu  |





## E.1 Min emission bandwidth

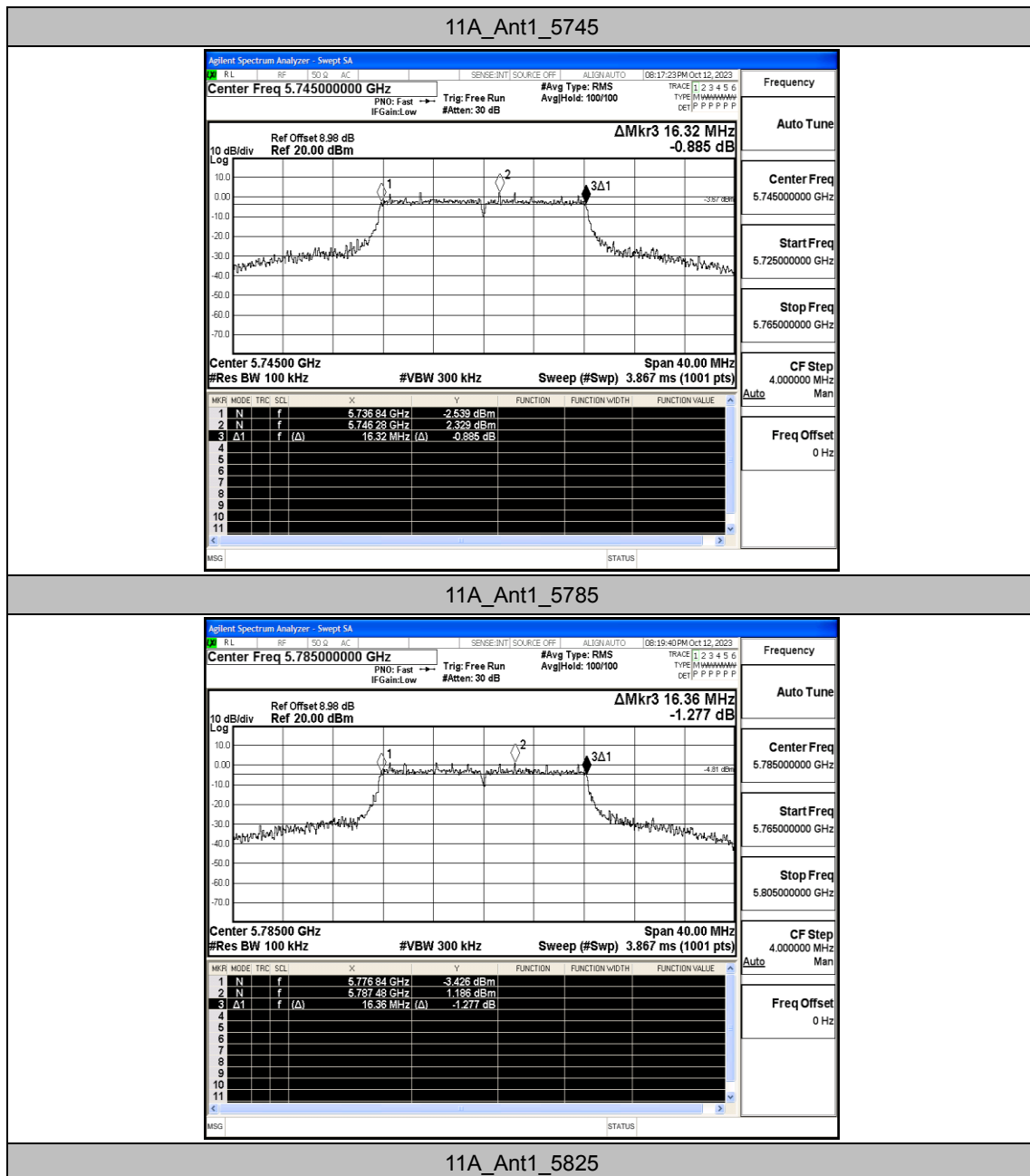
### Test Result

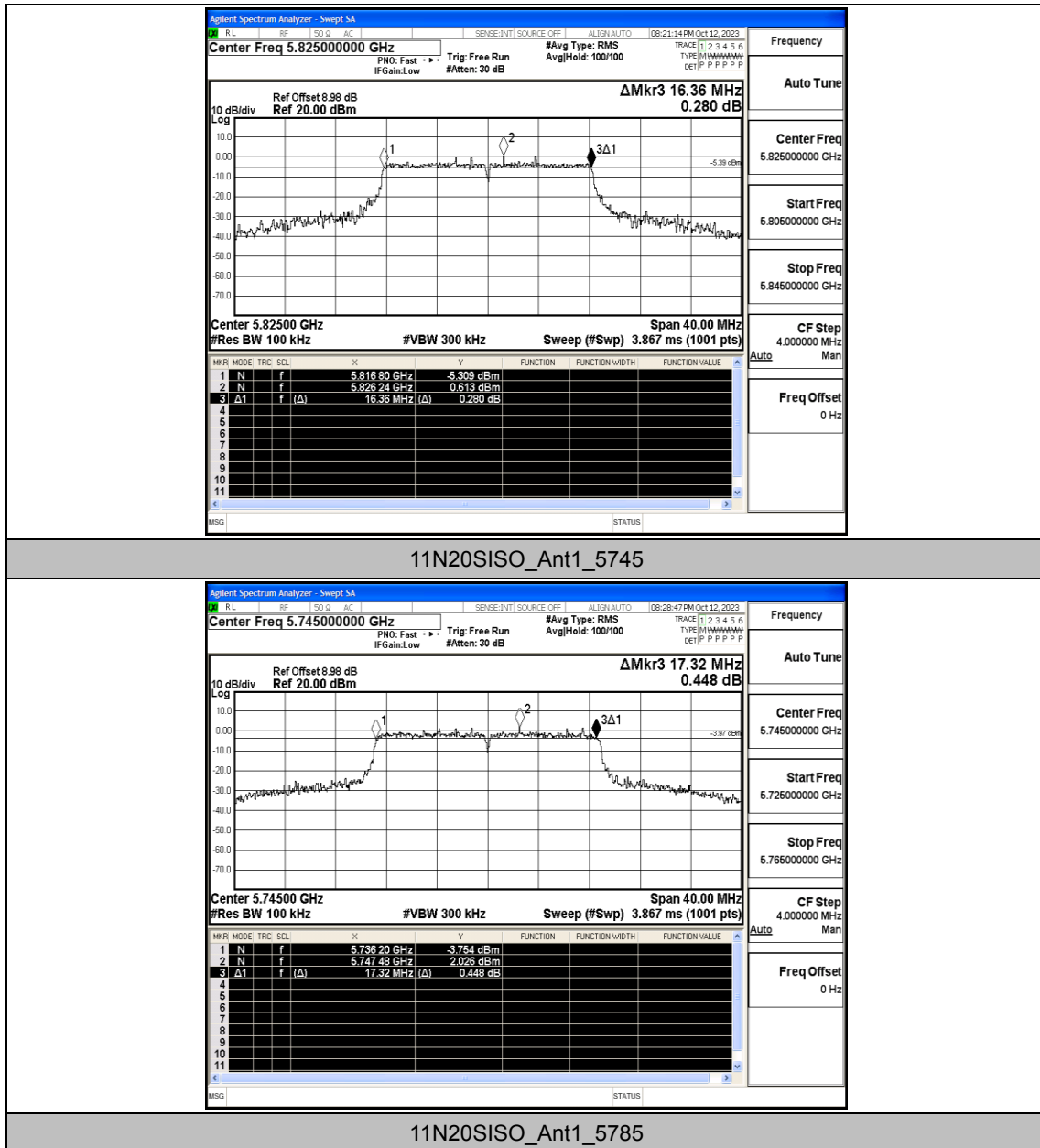
| TestMode   | Antenna | Frequency[MHz] | 6db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|---------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5745           | 16.320        | 5736.840 | 5753.160 | 0.5        | PASS    |
|            |         | 5785           | 16.360        | 5776.840 | 5793.200 | 0.5        | PASS    |
|            |         | 5825           | 16.360        | 5816.800 | 5833.160 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5745           | 17.320        | 5736.200 | 5753.520 | 0.5        | PASS    |
|            |         | 5785           | 17.280        | 5776.200 | 5793.480 | 0.5        | PASS    |
|            |         | 5825           | 17.240        | 5816.360 | 5833.600 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5755           | 35.200        | 5737.320 | 5772.520 | 0.5        | PASS    |
|            |         | 5795           | 35.760        | 5777.160 | 5812.920 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5745           | 17.240        | 5736.360 | 5753.600 | 0.5        | PASS    |
|            |         | 5785           | 17.160        | 5776.440 | 5793.600 | 0.5        | PASS    |
|            |         | 5825           | 17.560        | 5816.200 | 5833.760 | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5755           | 35.520        | 5737.080 | 5772.600 | 0.5        | PASS    |
|            |         | 5795           | 35.920        | 5777.080 | 5813.000 | 0.5        | PASS    |
| 11AC80SISO | Ant1    | 5775           | 75.360        | 5737.240 | 5812.600 | 0.5        | PASS    |

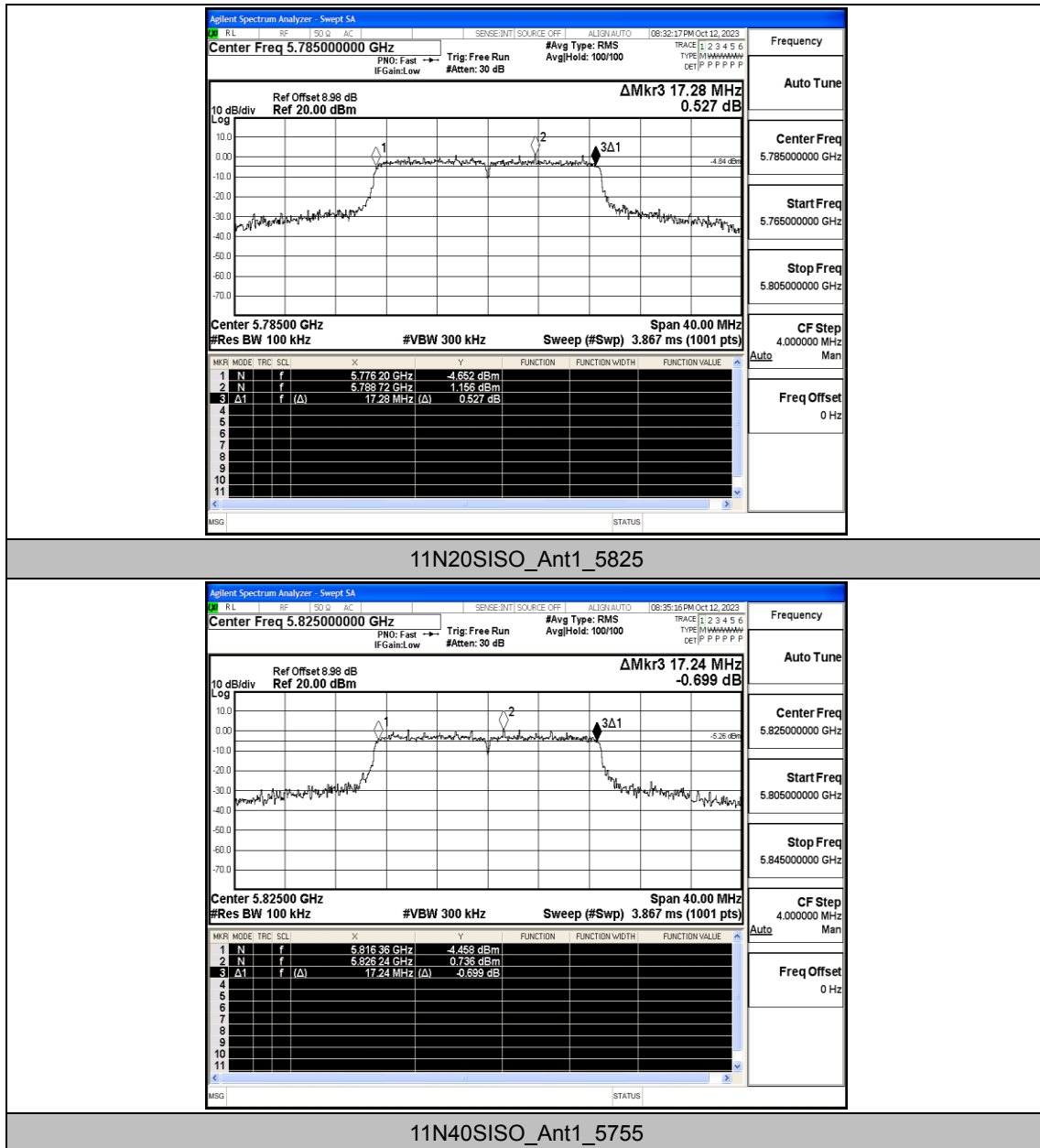


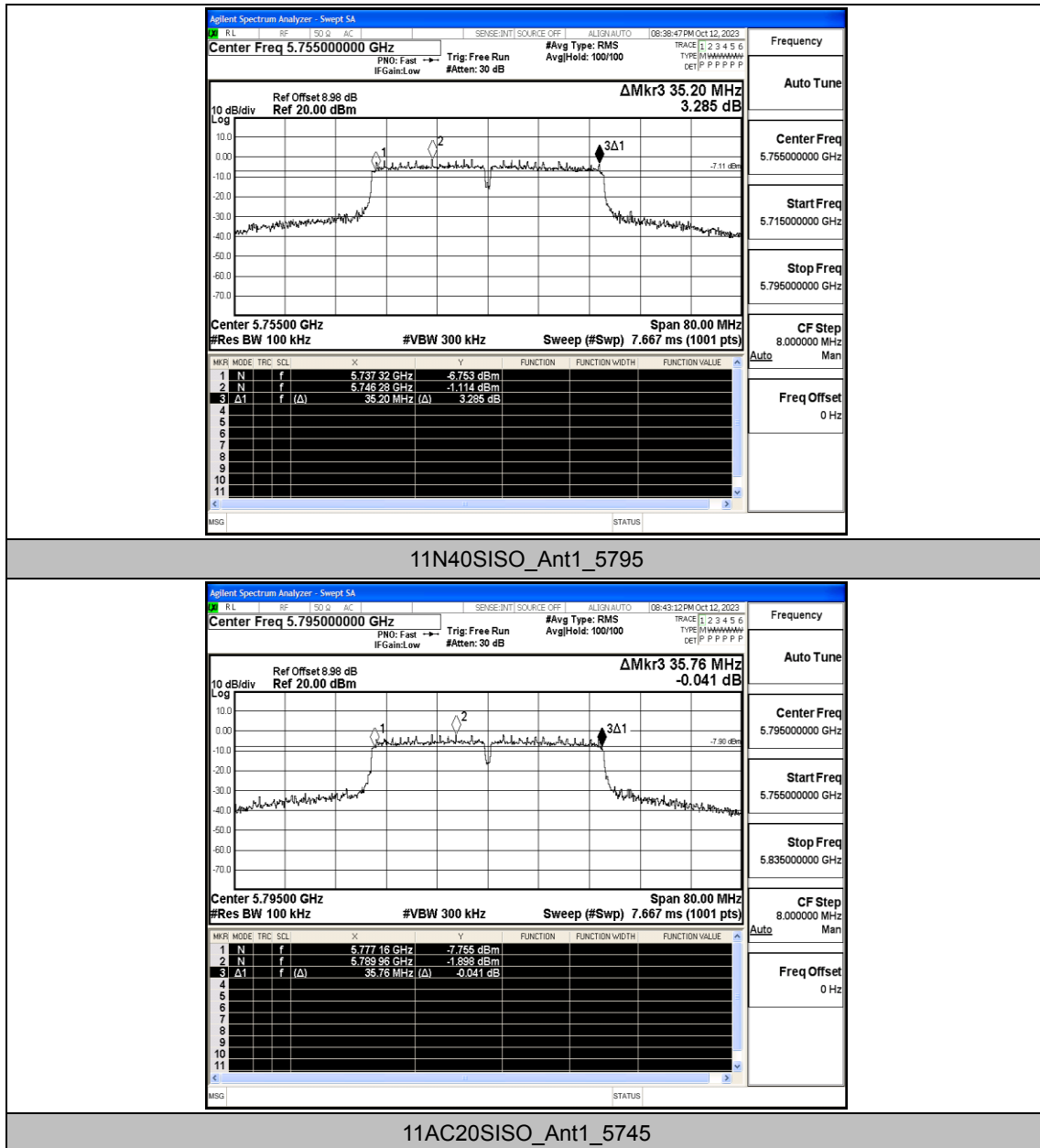


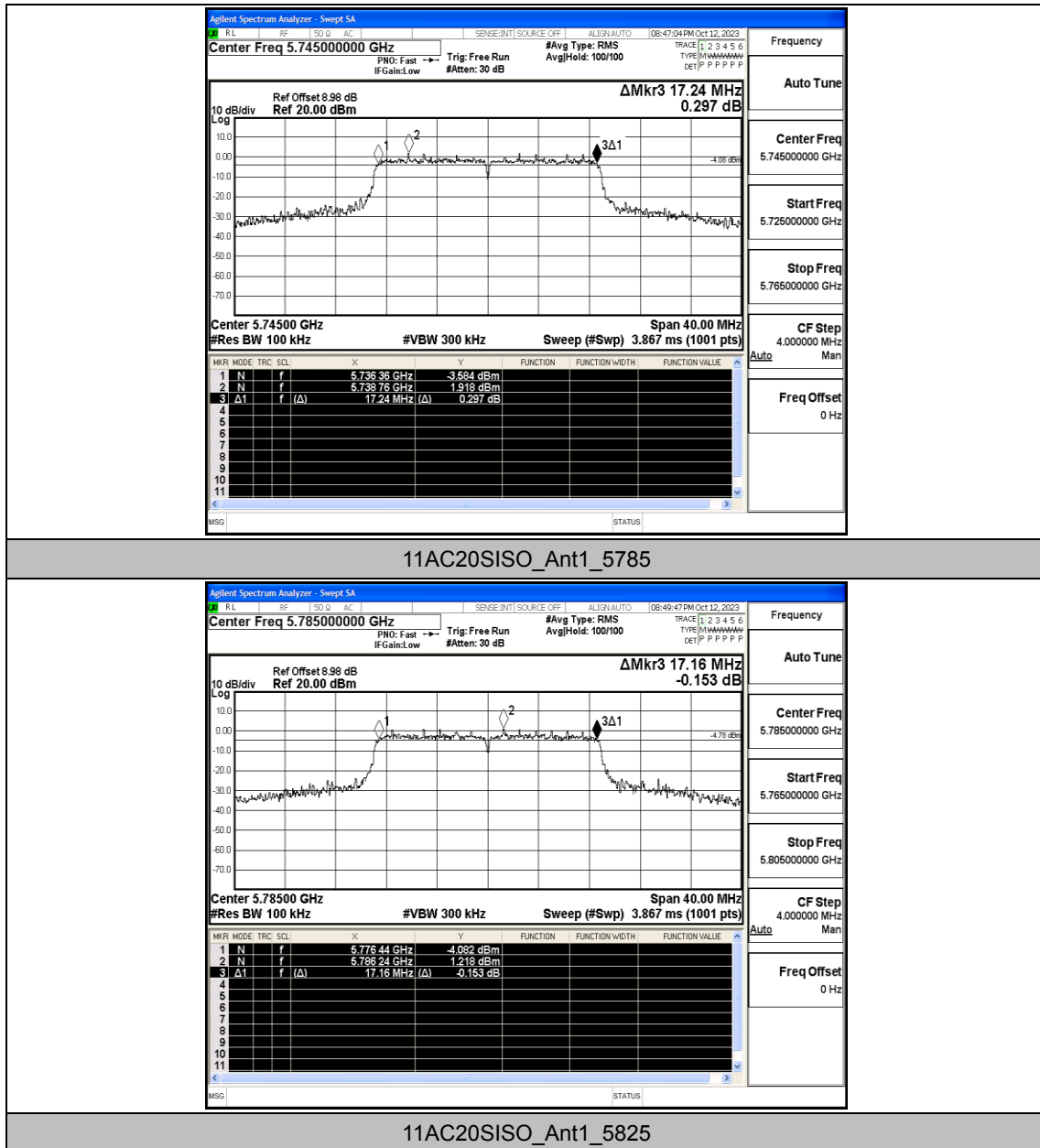
## Test Graphs

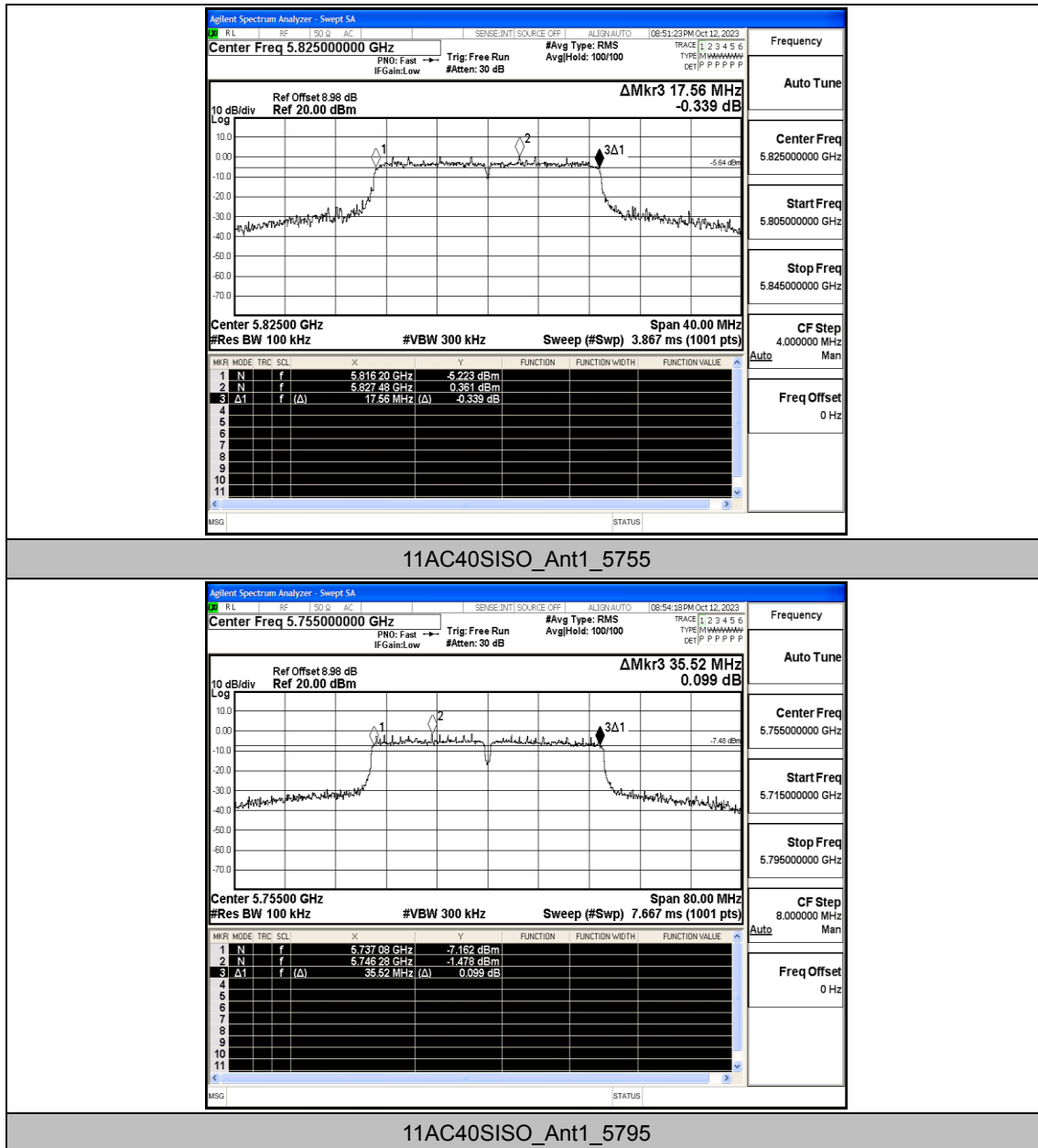


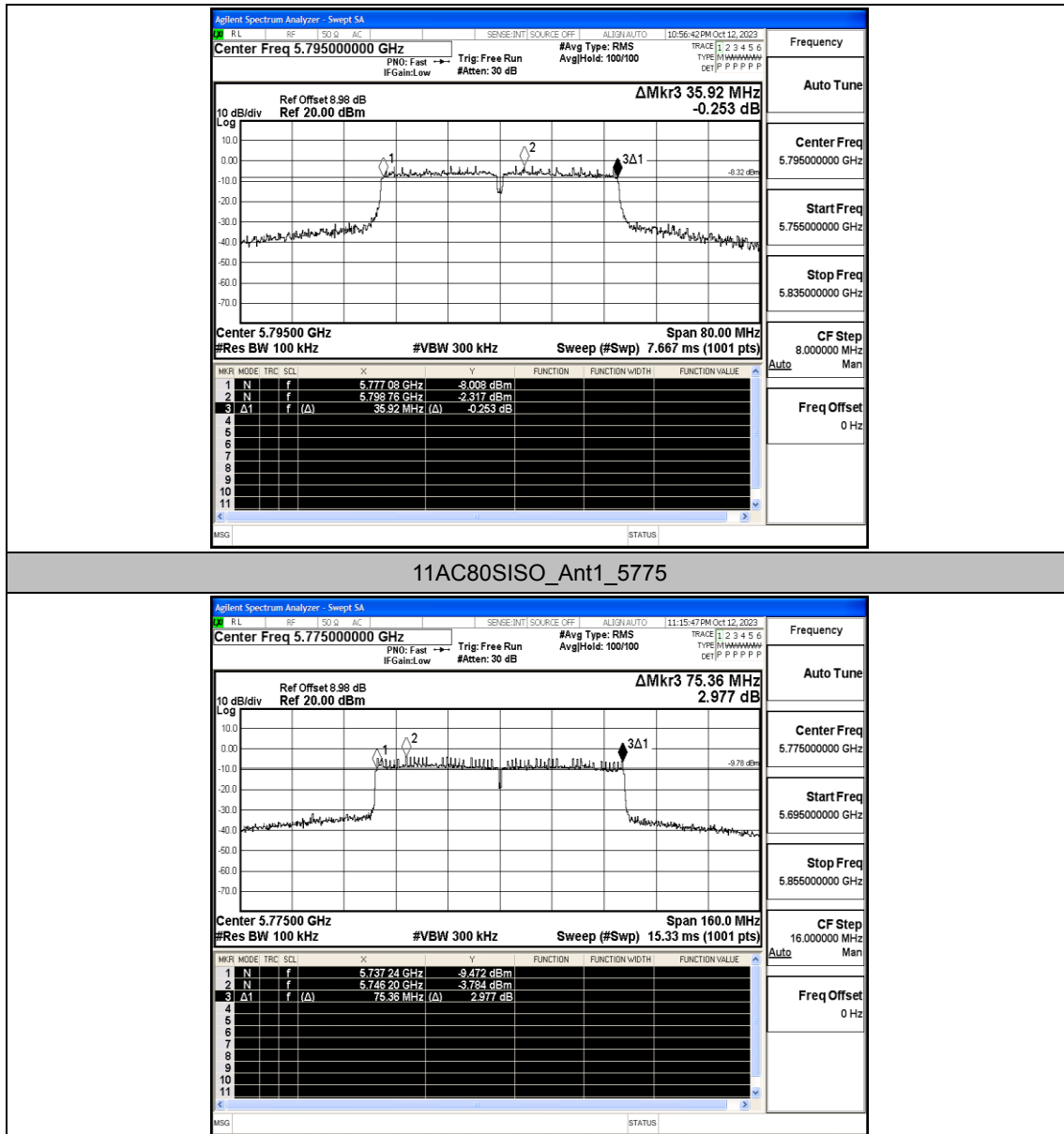














## E.2 Maximum conducted output power

### 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           | 13.05               | 96.55          | 0.15            | 13.20        | ≤30.00      | PASS    |
|            |         | 5785           | 12.07               | 95.86          | 0.18            | 12.25        | ≤30.00      | PASS    |
|            |         | 5825           | 11.59               | 95.86          | 0.18            | 11.77        | ≤30.00      | PASS    |
| 11N20SISO  | Ant1    | 5745           | 13.21               | 95.93          | 0.18            | 13.39        | ≤30.00      | PASS    |
|            |         | 5785           | 12.45               | 95.93          | 0.18            | 12.63        | ≤30.00      | PASS    |
|            |         | 5825           | 11.91               | 95.16          | 0.22            | 12.13        | ≤30.00      | PASS    |
| 11N40SISO  | Ant1    | 5755           | 12.65               | 92.19          | 0.35            | 13.00        | ≤30.00      | PASS    |
|            |         | 5795           | 12.04               | 90.63          | 0.43            | 12.47        | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5745           | 13.28               | 95.16          | 0.22            | 13.50        | ≤30.00      | PASS    |
|            |         | 5785           | 12.26               | 95.16          | 0.22            | 12.48        | ≤30.00      | PASS    |
|            |         | 5825           | 11.74               | 95.97          | 0.18            | 11.92        | ≤30.00      | PASS    |
| 11AC40SISO | Ant1    | 5755           | 12.30               | 90.77          | 0.42            | 12.72        | ≤30.00      | PASS    |
|            |         | 5795           | 11.60               | 89.55          | 0.48            | 12.08        | ≤30.00      | PASS    |
| 11AC80SISO | Ant1    | 5775           | 11.99               | 82.86          | 0.82            | 12.81        | ≤30.00      | PASS    |

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





## E.3 Maximum power spectral density

### Test Result

| TestMode   | Antenna | Frequency[MHz] | Result<br>[dBm/500KHz] | Limit[dBm/500KHz] | Verdict |
|------------|---------|----------------|------------------------|-------------------|---------|
| 11A        | Ant1    | 5745           | -1.24                  | ≤30.00            | PASS    |
|            |         | 5785           | -2.23                  | ≤30.00            | PASS    |
|            |         | 5825           | -2.79                  | ≤30.00            | PASS    |
| 11N20SISO  | Ant1    | 5745           | -1.28                  | ≤30.00            | PASS    |
|            |         | 5785           | -2.08                  | ≤30.00            | PASS    |
|            |         | 5825           | -2.48                  | ≤30.00            | PASS    |
| 11N40SISO  | Ant1    | 5755           | -4.37                  | ≤30.00            | PASS    |
|            |         | 5795           | -5.07                  | ≤30.00            | PASS    |
| 11AC20SISO | Ant1    | 5745           | -1.1                   | ≤30.00            | PASS    |
|            |         | 5785           | -2.02                  | ≤30.00            | PASS    |
|            |         | 5825           | -2.72                  | ≤30.00            | PASS    |
| 11AC40SISO | Ant1    | 5755           | -4.56                  | ≤30.00            | PASS    |
|            |         | 5795           | -5.11                  | ≤30.00            | PASS    |
| 11AC80SISO | Ant1    | 5775           | -6.89                  | ≤30.00            | PASS    |

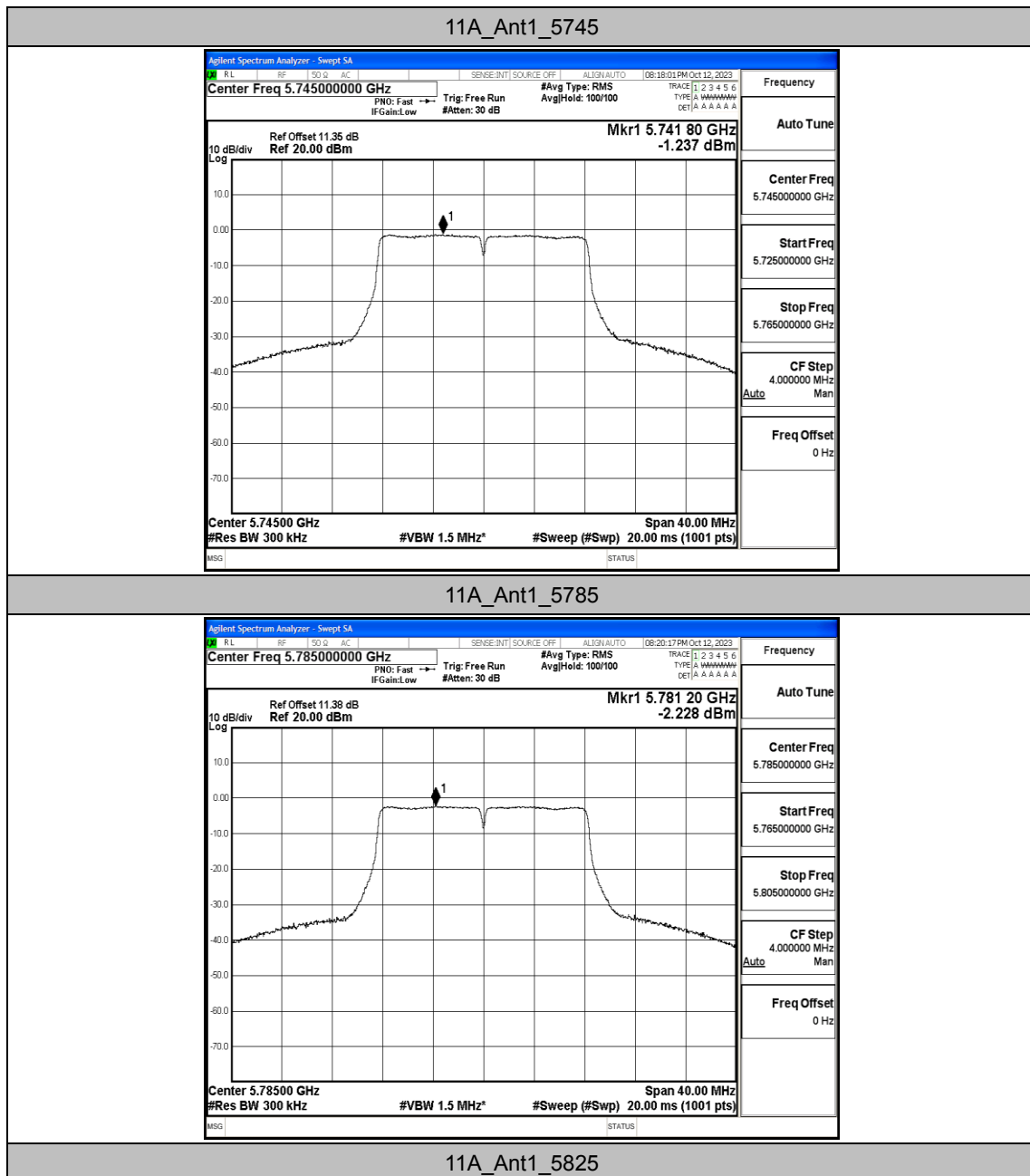
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

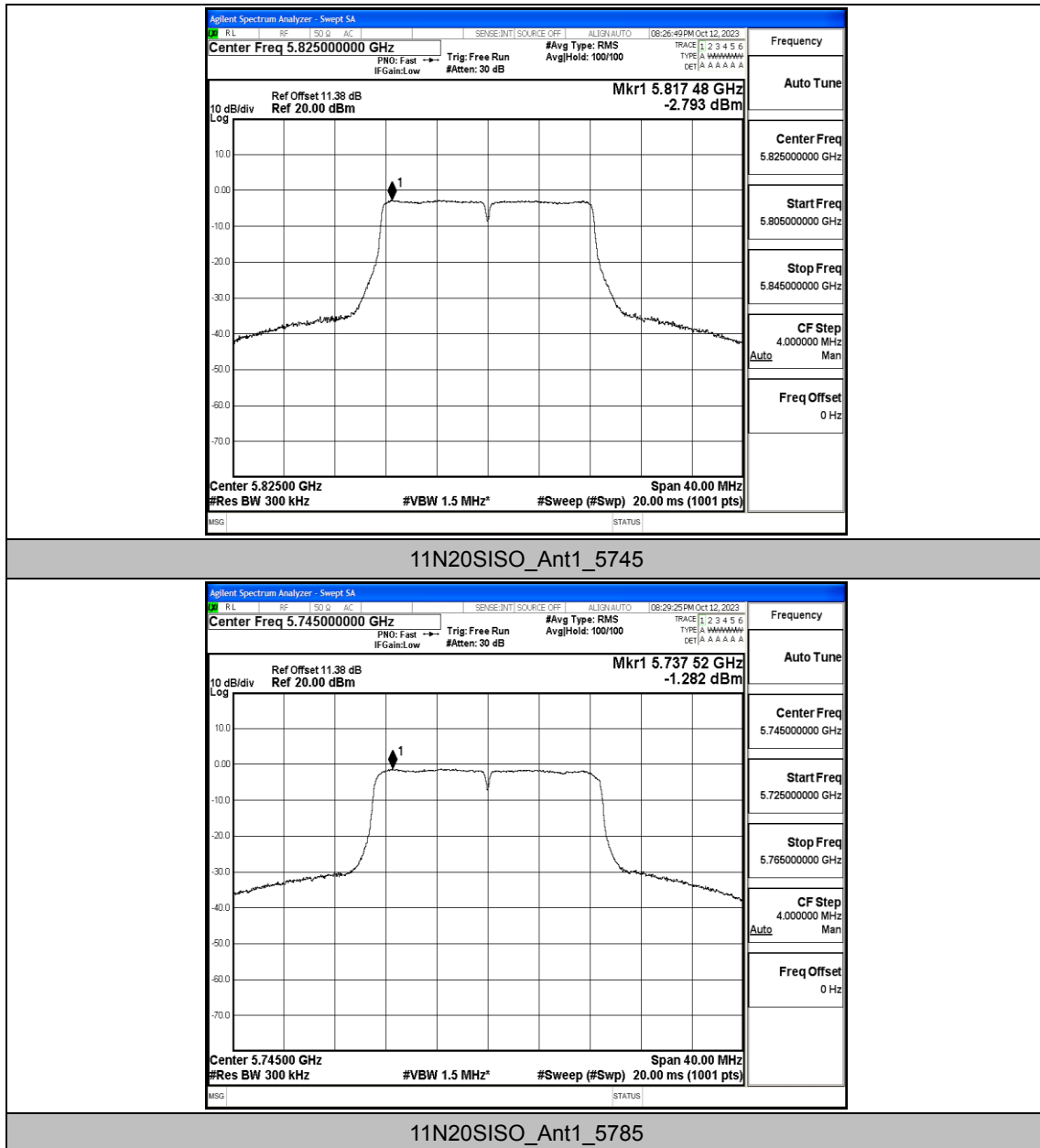
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

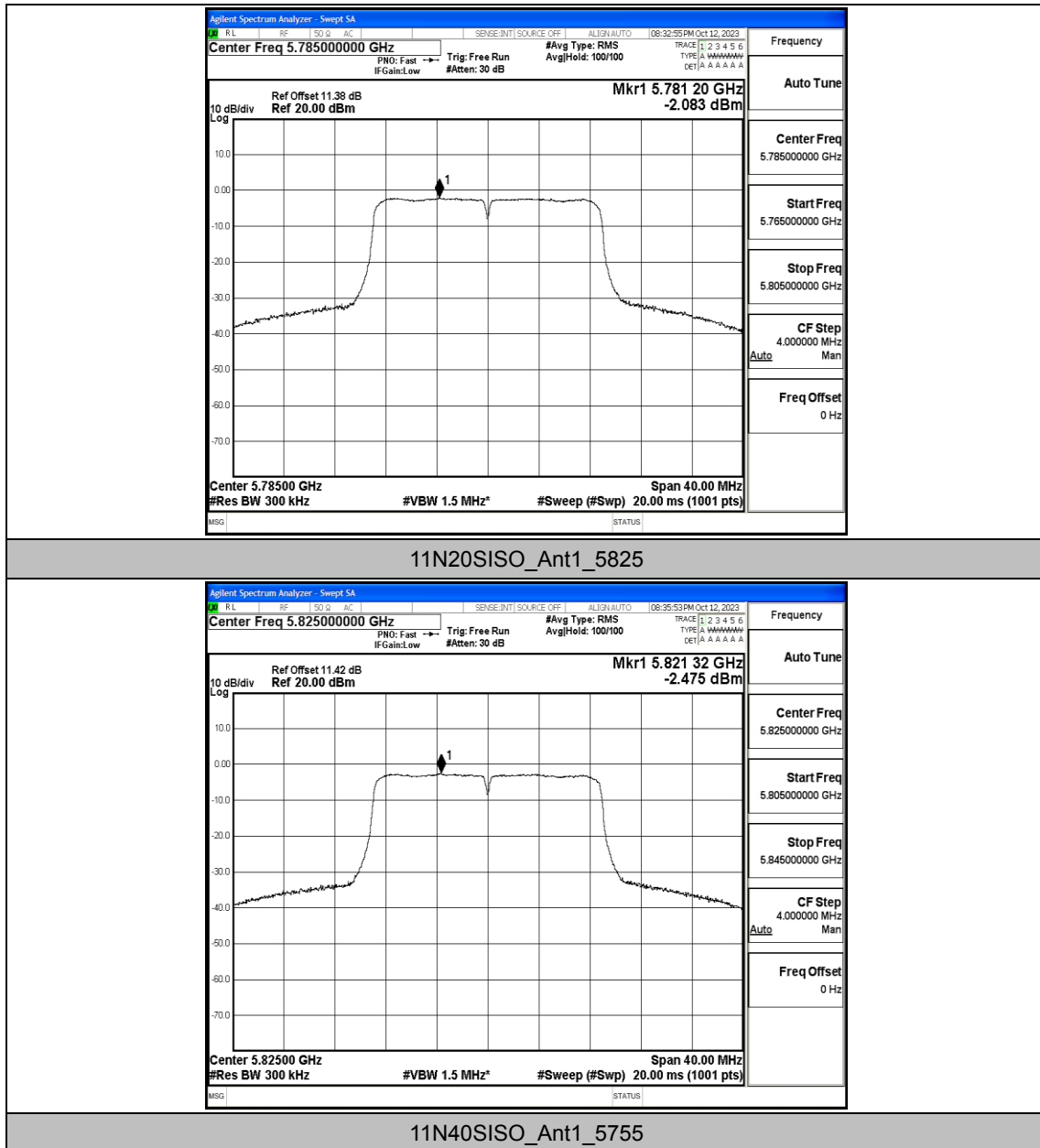


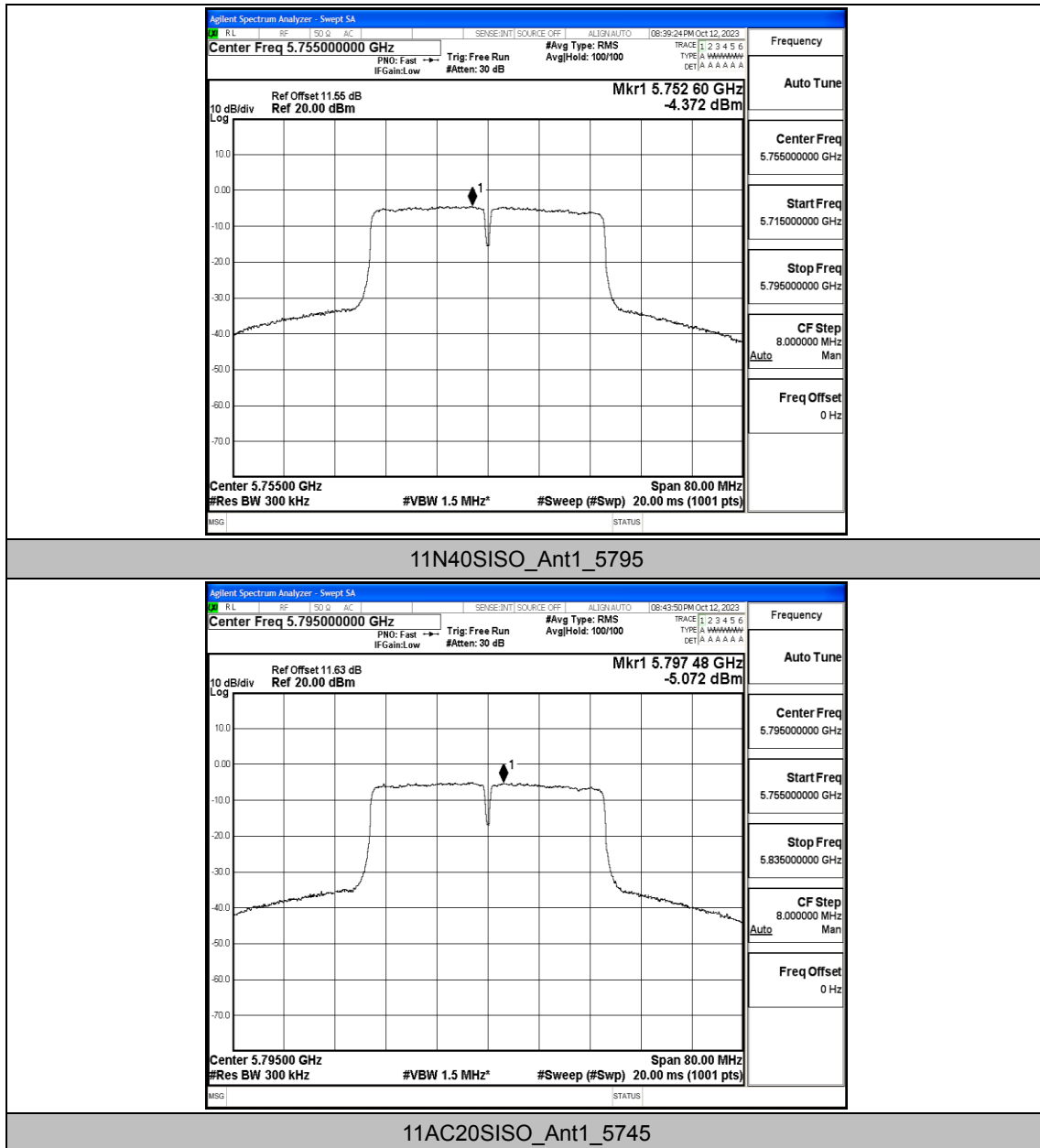


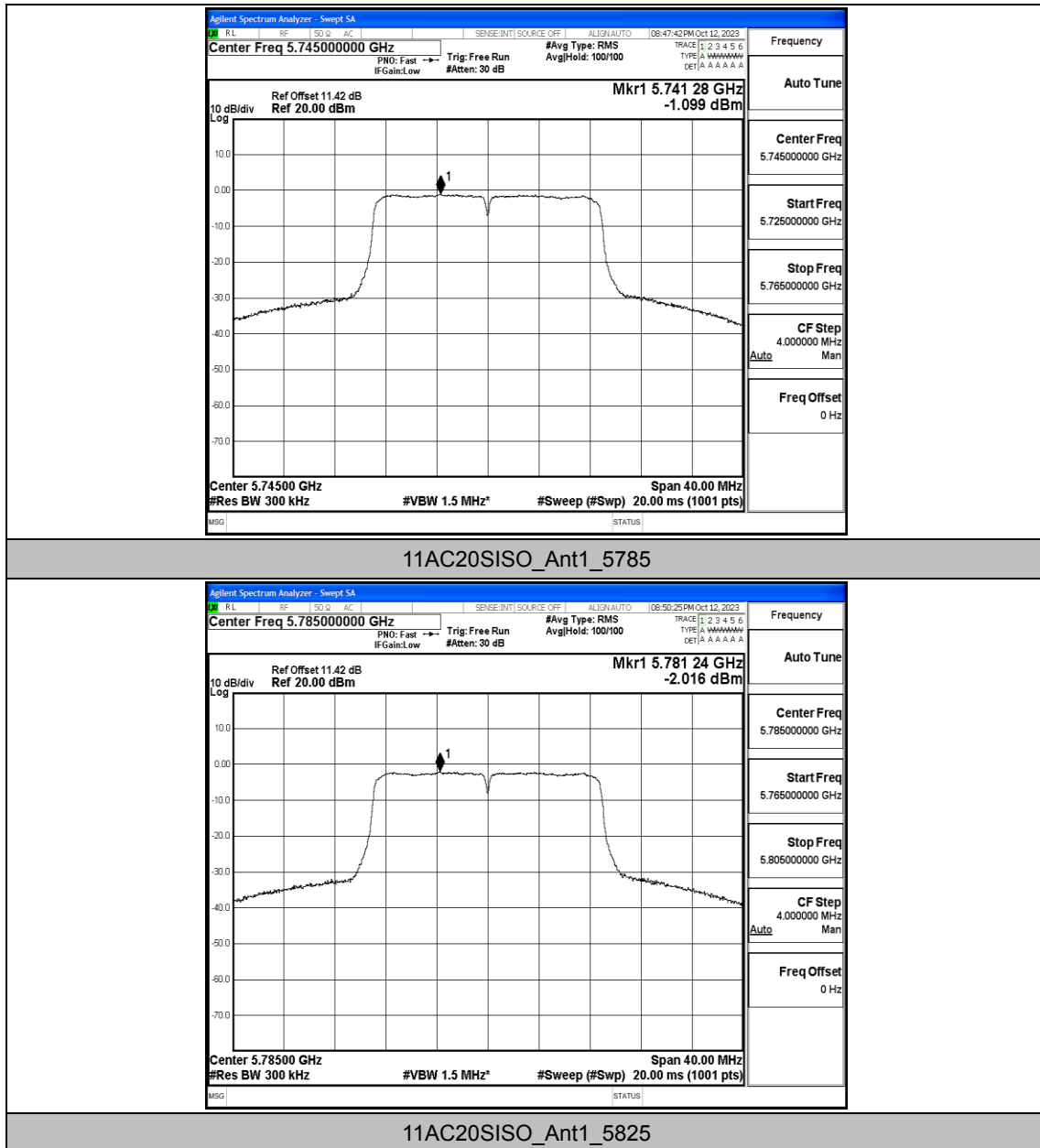
## Test Graphs

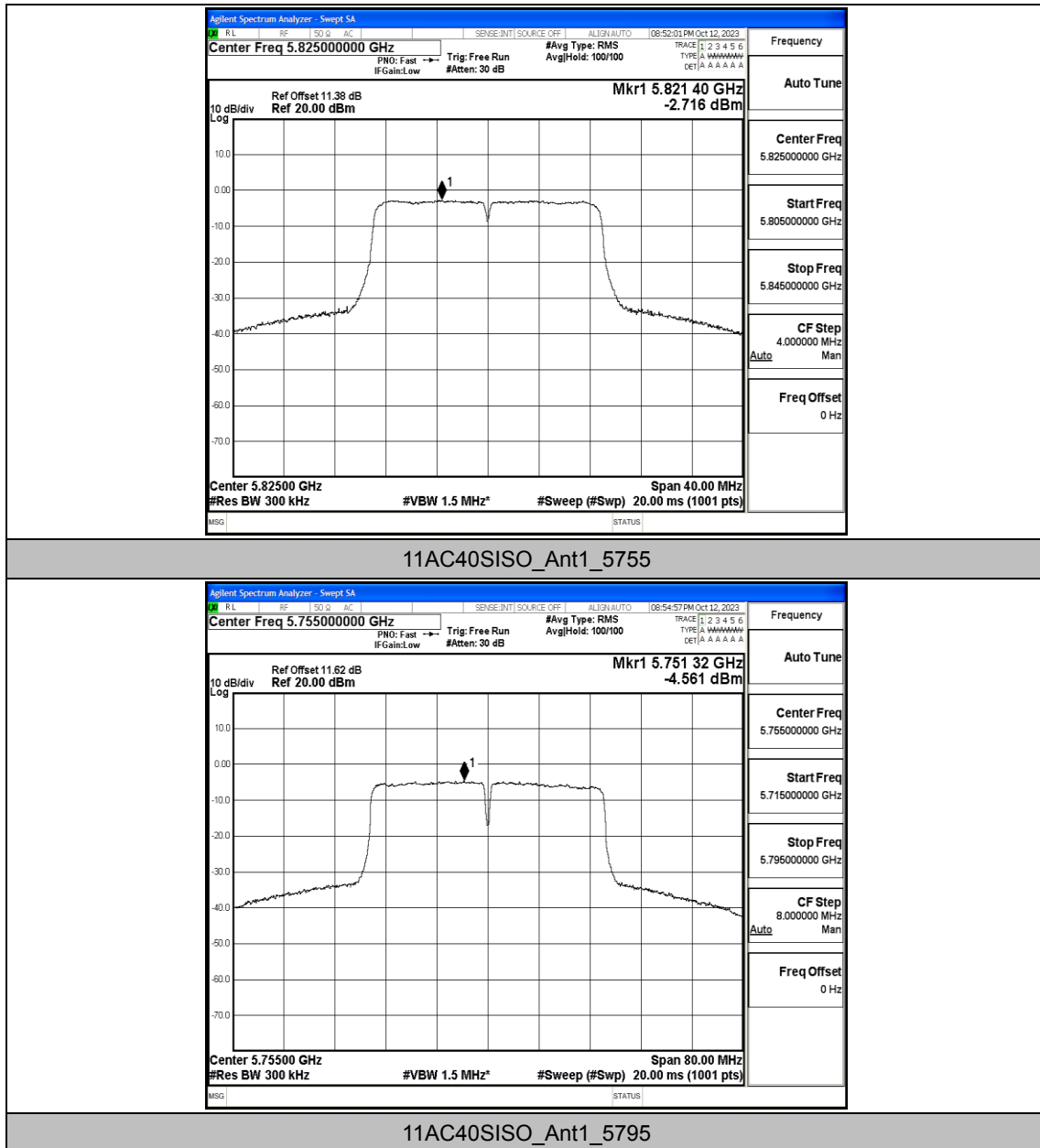


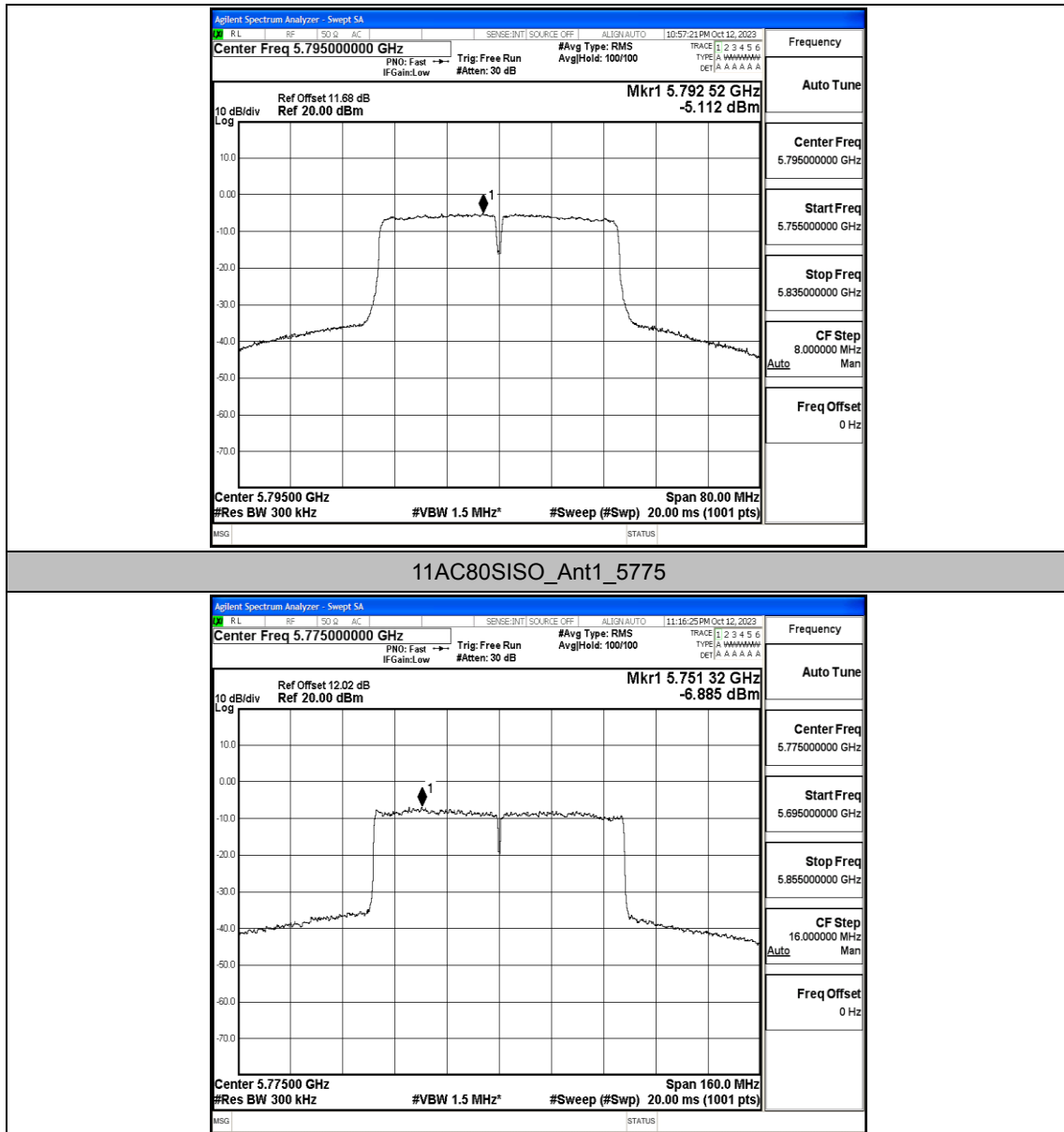














## E.4 Emissions in Restricted Bands

### Test Result

| TestMode   | Antenna | ChName | Frequency [MHz] | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|--------|-----------------|----------|------------|--------------|-------------|---------|
| 11A        | Ant1    | Low    | 5745            | Peak     | 5650.000   | -48.424      | ≤-27.00     | PASS    |
|            |         |        |                 | Peak     | 5700.000   | -42.76       | ≤10.00      | PASS    |
|            |         |        |                 | Peak     | 5720.000   | -39.16       | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5725.000   | -25.14       | ≤27.00      | PASS    |
|            |         | High   | 5825            | Peak     | 5850.000   | -35.458      | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5855.000   | -40.16       | ≤27.00      | PASS    |
|            |         |        |                 | Peak     | 5875.000   | -47.36       | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5925.000   | -48.63       | ≤10.00      | PASS    |
| 11N20SISO  | Ant1    | Low    | 5745            | Peak     | 5650.000   | -48.303      | ≤-27.00     | PASS    |
|            |         |        |                 | Peak     | 5700.000   | -46.25       | ≤10.00      | PASS    |
|            |         |        |                 | Peak     | 5720.000   | -32.24       | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5725.000   | -23.65       | ≤27.00      | PASS    |
|            |         | High   | 5825            | Peak     | 5850.000   | -34.046      | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5855.000   | -34.72       | ≤27.00      | PASS    |
|            |         |        |                 | Peak     | 5875.000   | -46.29       | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5925.000   | -48.14       | ≤10.00      | PASS    |
| 11N40SISO  | Ant1    | Low    | 5755            | Peak     | 5650.000   | -47.157      | ≤-27.00     | PASS    |
|            |         |        |                 | Peak     | 5700.000   | -41.95       | ≤10.00      | PASS    |
|            |         |        |                 | Peak     | 5720.000   | -22.82       | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5725.000   | -20.53       | ≤27.00      | PASS    |
|            |         | High   | 5795            | Peak     | 5850.000   | -42.297      | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5855.000   | -46.45       | ≤27.00      | PASS    |
|            |         |        |                 | Peak     | 5875.000   | -48.96       | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5925.000   | -48.03       | ≤10.00      | PASS    |
| 11AC20SISO | Ant1    | Low    | 5745            | Peak     | 5650.000   | -48.984      | ≤-27.00     | PASS    |
|            |         |        |                 | Peak     | 5700.000   | -46.01       | ≤10.00      | PASS    |
|            |         |        |                 | Peak     | 5720.000   | -31.77       | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5725.000   | -22.54       | ≤27.00      | PASS    |
|            |         | High   | 5825            | Peak     | 5850.000   | -31.829      | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5855.000   | -34.34       | ≤27.00      | PASS    |
|            |         |        |                 | Peak     | 5875.000   | -48.71       | ≤15.60      | PASS    |
|            |         |        |                 | Peak     | 5925.000   | -48.62       | ≤10.00      | PASS    |
| 11AC40SISO | Ant1    | Low    | 5755            | Peak     | 5650.000   | -46.865      | ≤-27.00     | PASS    |
|            |         |        |                 | Peak     | 5700.000   | -42.31       | ≤10.00      | PASS    |
|            |         |        |                 | Peak     | 5720.000   | -25.12       | ≤15.60      | PASS    |





|                |      |      |      |      |          |         |         |      |
|----------------|------|------|------|------|----------|---------|---------|------|
|                |      | High | 5795 | Peak | 5725.000 | -22.72  | ≤27.00  | PASS |
|                |      |      |      | Peak | 5850.000 | -46.483 | ≤15.60  | PASS |
|                |      |      |      | Peak | 5855.000 | -45.33  | ≤27.00  | PASS |
|                |      |      |      | Peak | 5875.000 | -49.66  | ≤15.60  | PASS |
|                |      |      |      | Peak | 5925.000 | -51.4   | ≤10.00  | PASS |
| 11AC80SI<br>SO | Ant1 | Low  | 5775 | Peak | 5650.000 | -43.327 | ≤-27.00 | PASS |
|                |      |      |      | Peak | 5700.000 | -28.1   | ≤10.00  | PASS |
|                |      |      |      | Peak | 5720.000 | -26     | ≤15.60  | PASS |
|                |      |      |      | Peak | 5725.000 | -23.88  | ≤27.00  | PASS |
|                |      | High | 5775 | Peak | 5850.000 | -31.384 | ≤15.60  | PASS |
|                |      |      |      | Peak | 5855.000 | -30.69  | ≤27.00  | PASS |
|                |      |      |      | Peak | 5875.000 | -36.69  | ≤15.60  | PASS |
|                |      |      |      | Peak | 5925.000 | -48.59  | ≤10.00  | PASS |

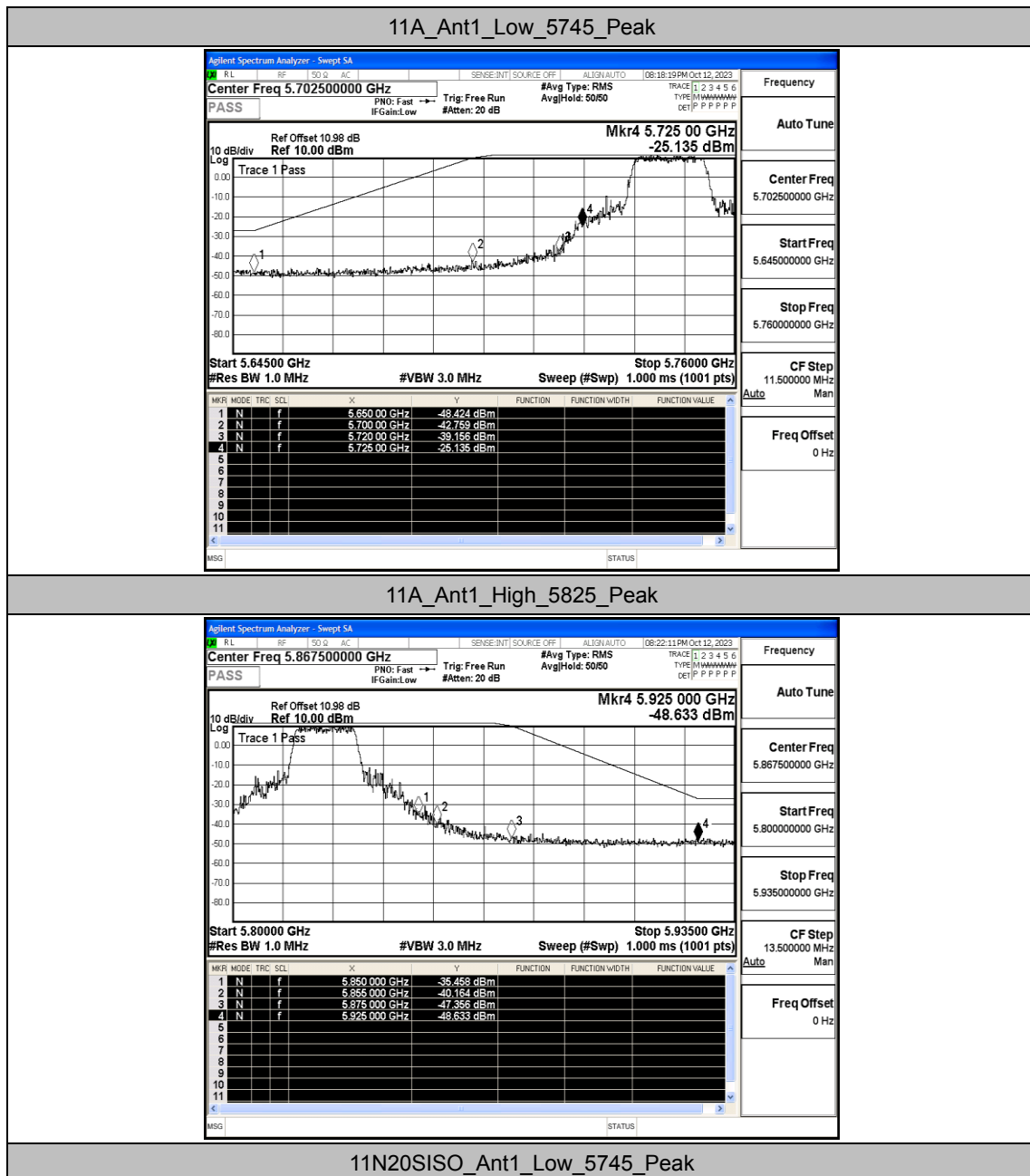
## Note:

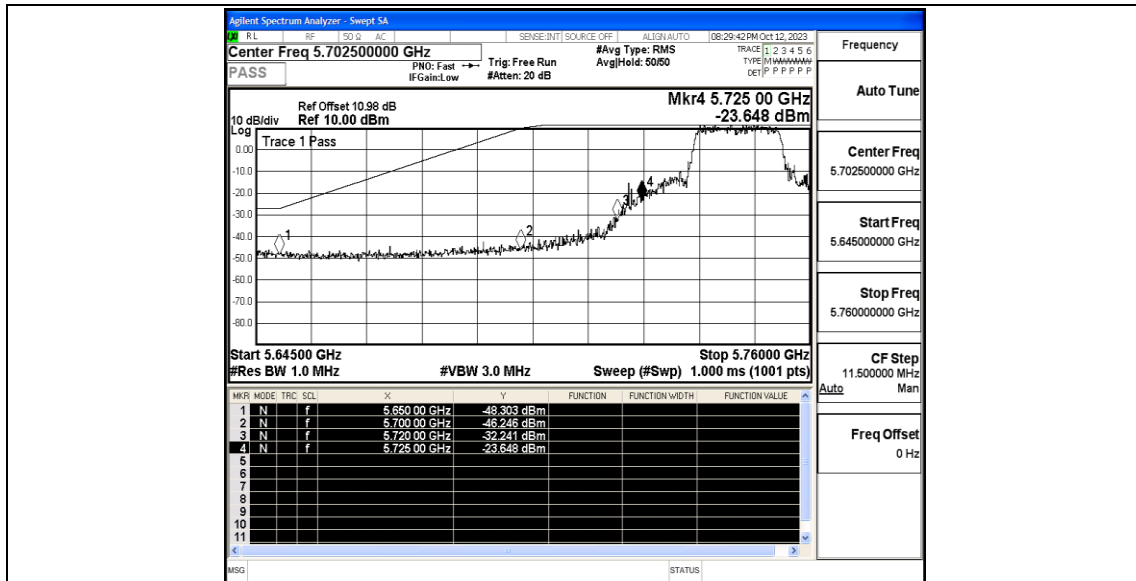
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



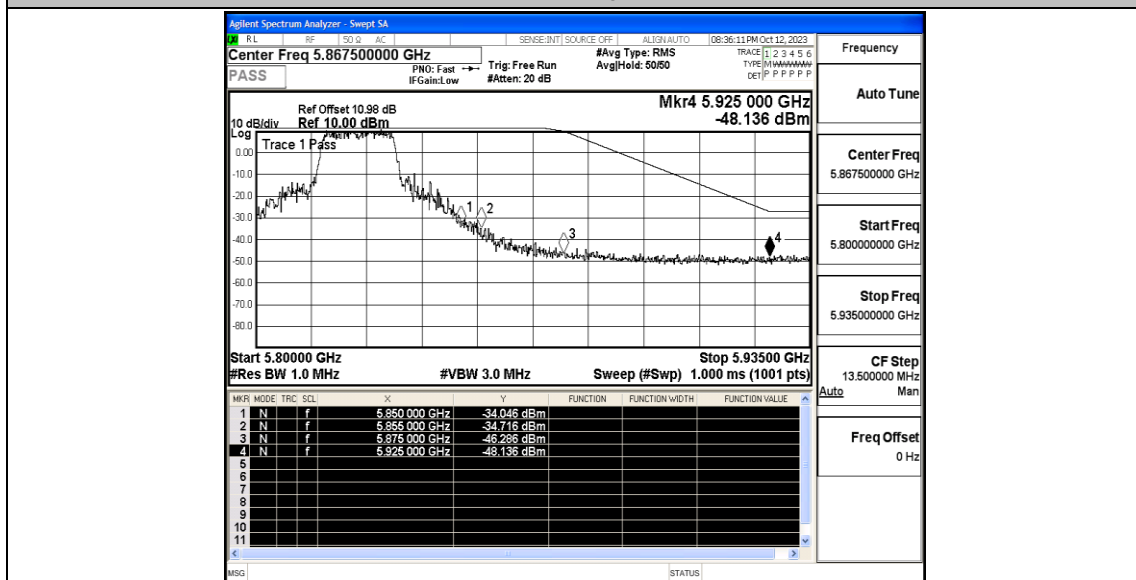


## Test Graphs



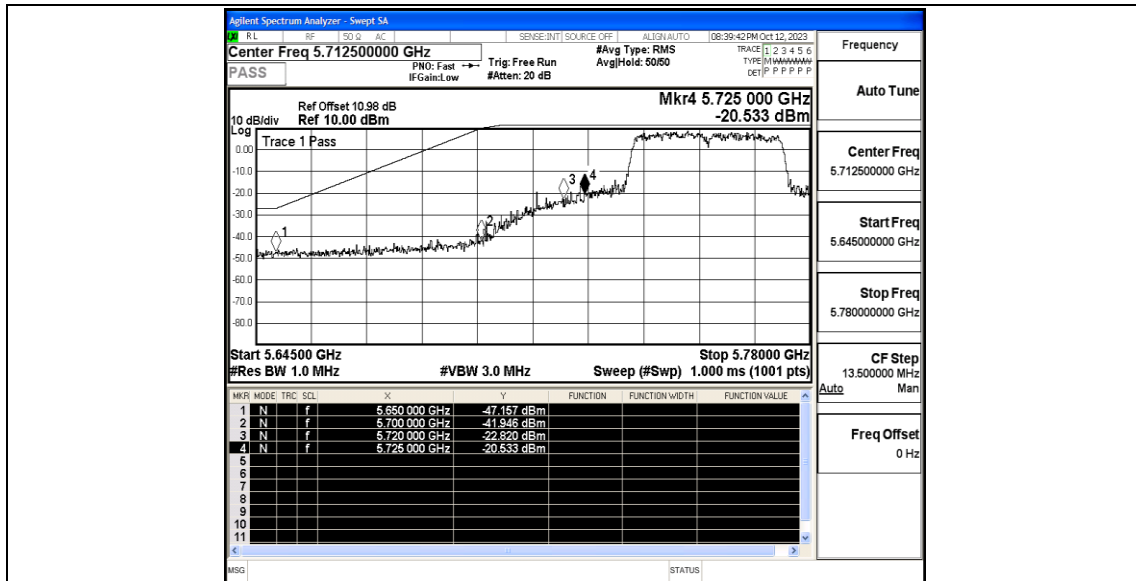


11N20SISO\_Ant1\_High\_5825\_Peak

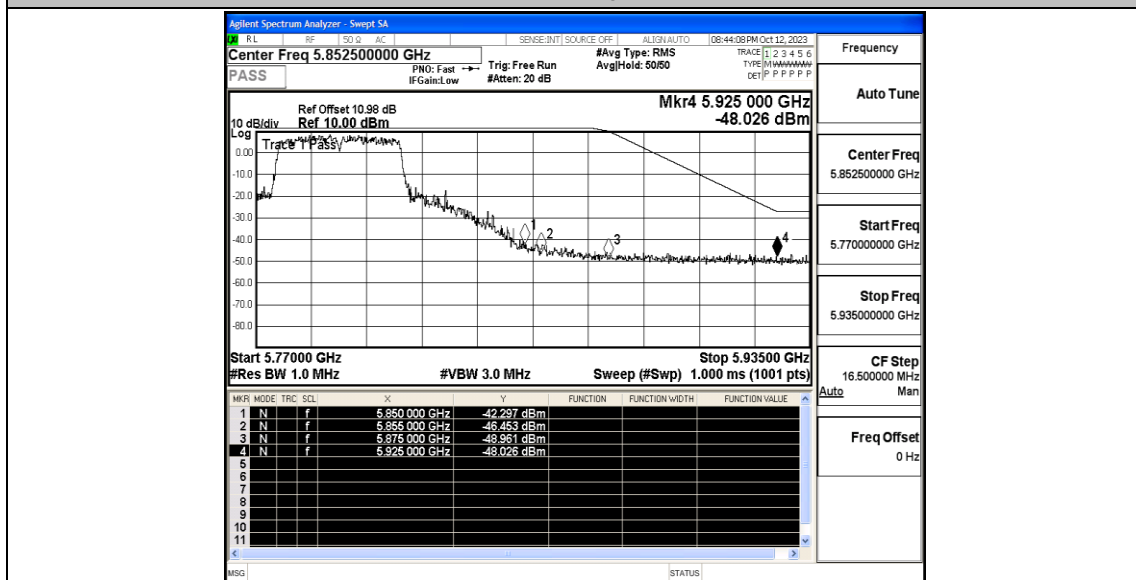


11N40SISO\_Ant1\_Low\_5755\_Peak



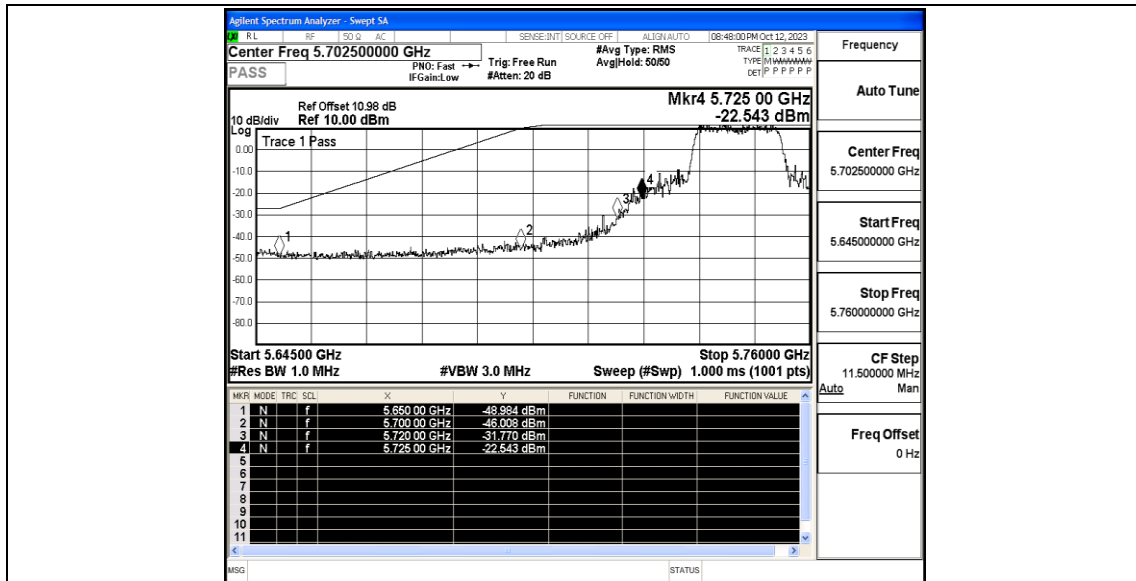


11N40SISO\_Ant1\_High\_5795\_Peak

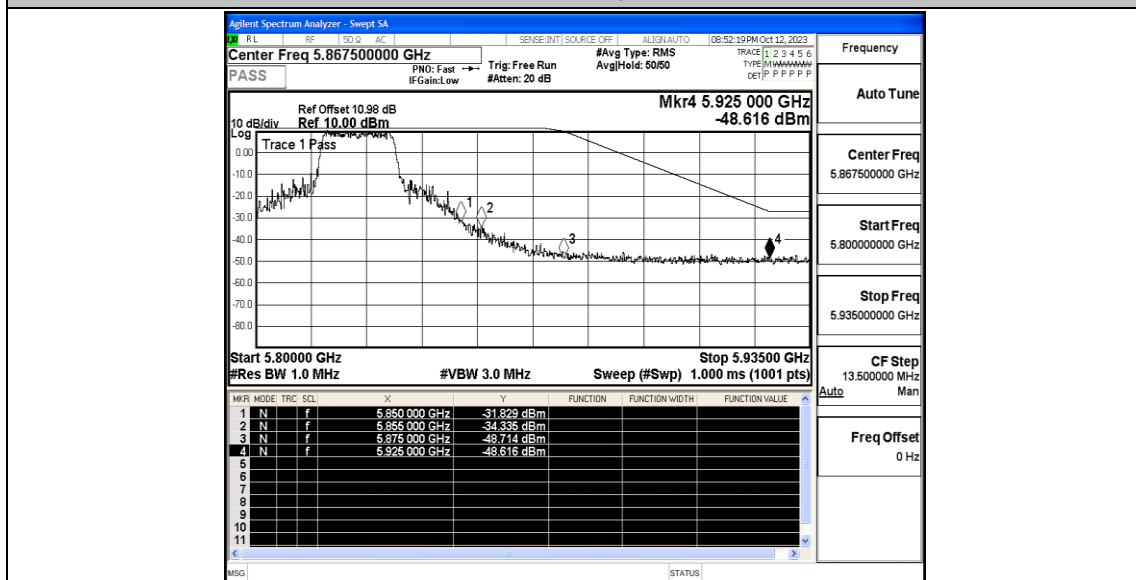


11AC20SISO\_Ant1\_Low\_5745\_Peak



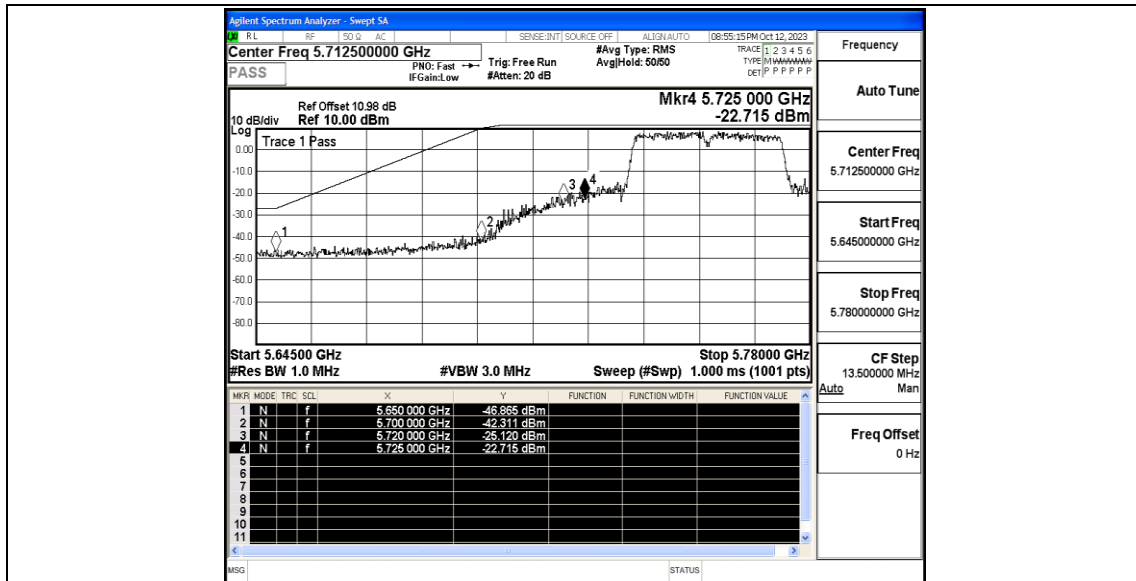


11AC20SISO\_Ant1\_High\_5825\_Peak

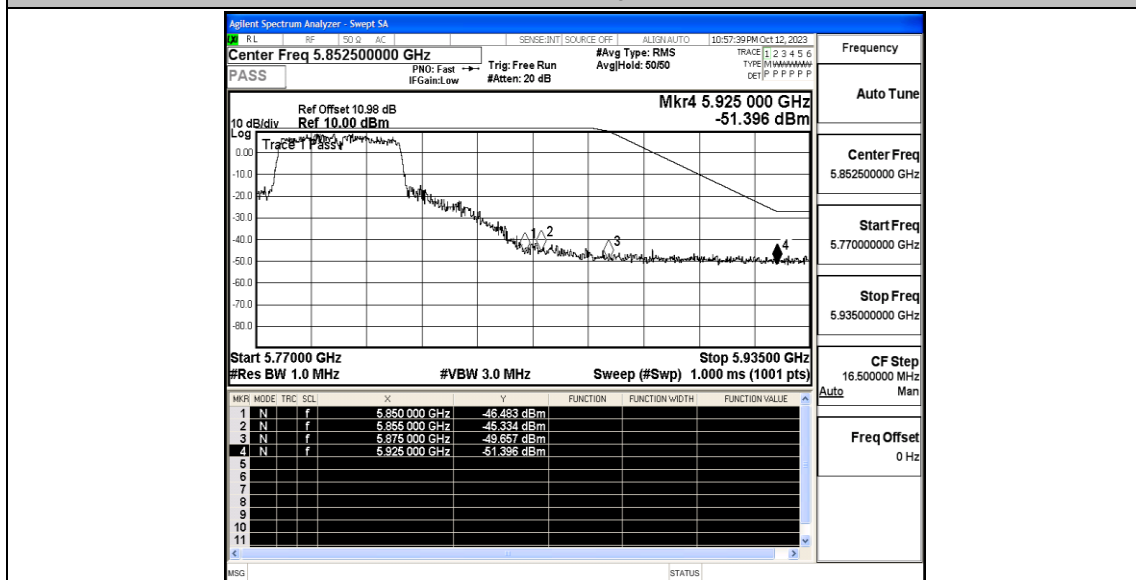


11AC40SISO\_Ant1\_Low\_5755\_Peak



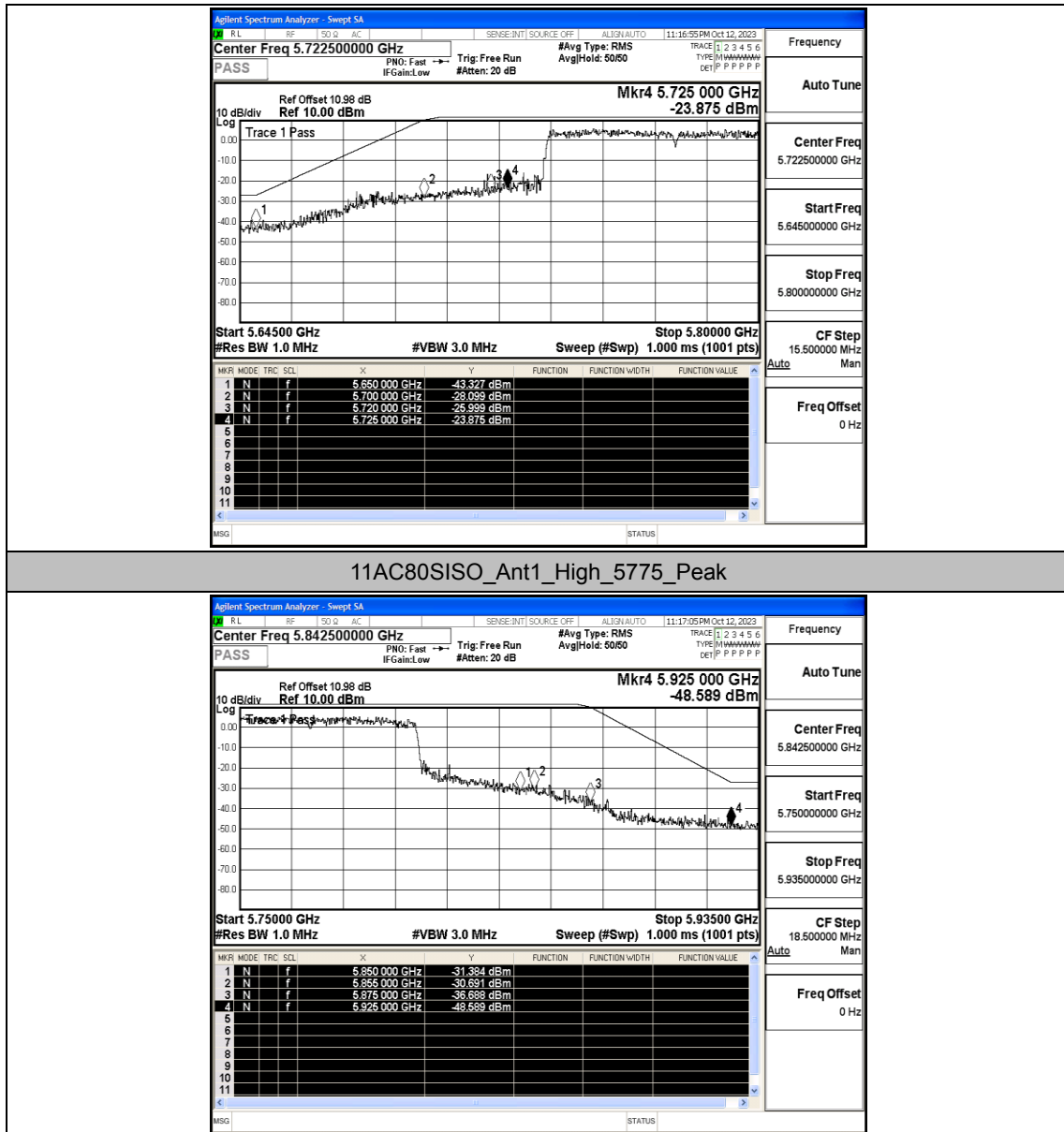


11AC40SISO\_Ant1\_High\_5795\_Peak



11AC80SISO\_Ant1\_Low\_5775\_Peak







## E.5 Frequency Stability

### Test Result

| Voltage        |         |                    |                  |                         |                   |                    |                |         |
|----------------|---------|--------------------|------------------|-------------------------|-------------------|--------------------|----------------|---------|
| TestMode       | Antenna | Frequen<br>cy[MHz] | Voltage<br>[Vdc] | Temper<br>ature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
| 11N20SI<br>SO  | Ant1    | 5745               | NV               | NT                      | 0.00              | 0.000000           | 20             | PASS    |
|                |         |                    | LV               | NT                      | -20000.00         | -3.481288          | 20             | PASS    |
|                |         |                    | HV               | NT                      | -20000.00         | -3.481288          | 20             | PASS    |
|                |         | 5785               | NV               | NT                      | -20000.00         | -3.457217          | 20             | PASS    |
|                |         |                    | LV               | NT                      | 0.00              | 0.000000           | 20             | PASS    |
|                |         |                    | HV               | NT                      | -20000.00         | -3.457217          | 20             | PASS    |
|                |         | 5825               | NV               | NT                      | 0.00              | 0.000000           | 20             | PASS    |
|                |         |                    | LV               | NT                      | 0.00              | 0.000000           | 20             | PASS    |
|                |         |                    | HV               | NT                      | -20000.00         | -3.433476          | 20             | PASS    |
| 11N40SI<br>SO  | Ant1    | 5755               | NV               | NT                      | -40000.00         | -6.950478          | 20             | PASS    |
|                |         |                    | LV               | NT                      | -40000.00         | -6.950478          | 20             | PASS    |
|                |         |                    | HV               | NT                      | 0.00              | 0.000000           | 20             | PASS    |
|                |         | 5795               | NV               | NT                      | 0.00              | 0.000000           | 20             | PASS    |
|                |         |                    | LV               | NT                      | -40000.00         | -6.902502          | 20             | PASS    |
|                |         |                    | HV               | NT                      | -40000.00         | -6.902502          | 20             | PASS    |
| 11AC80S<br>ISO | Ant1    | 5775               | NV               | NT                      | 0.00              | 0.000000           | 20             | PASS    |
|                |         |                    | LV               | NT                      | -80000.00         | -13.852814         | 20             | PASS    |
|                |         |                    | HV               | NT                      | 0.00              | 0.000000           | 20             | PASS    |

| Temperature   |         |                    |                  |                         |                   |                    |                |         |
|---------------|---------|--------------------|------------------|-------------------------|-------------------|--------------------|----------------|---------|
| TestMode      | Antenna | Frequen<br>cy[MHz] | Voltage<br>[Vdc] | Temper<br>ature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
| 11N20SI<br>SO | Ant1    | 5745               | NV               | -30                     | -20000.00         | -3.481288          | 20             | PASS    |
|               |         |                    | NV               | -20                     | -40000.00         | -6.962576          | 20             | PASS    |
|               |         |                    | NV               | -10                     | 0.00              | 0.000000           | 20             | PASS    |
|               |         |                    | NV               | 0                       | -20000.00         | -3.481288          | 20             | PASS    |
|               |         |                    | NV               | 10                      | -20000.00         | -3.481288          | 20             | PASS    |
|               |         |                    | NV               | 20                      | 0.00              | 0.000000           | 20             | PASS    |
|               |         |                    | NV               | 30                      | -40000.00         | -6.962576          | 20             | PASS    |
|               |         |                    | NV               | 40                      | -20000.00         | -3.481288          | 20             | PASS    |
|               |         |                    | NV               | 50                      | 0.00              | 0.000000           | 20             | PASS    |
|               |         | 5785               | NV               | -30                     | -20000.00         | -3.457217          | 20             | PASS    |
|               |         |                    | NV               | -20                     | -20000.00         | -3.457217          | 20             | PASS    |
|               |         |                    | NV               | -10                     | -40000.00         | -6.914434          | 20             | PASS    |





|                |      |      |    |     |           |            |    |      |
|----------------|------|------|----|-----|-----------|------------|----|------|
|                |      |      | NV | 0   | -20000.00 | -3.457217  | 20 | PASS |
|                |      |      | NV | 10  | -20000.00 | -3.457217  | 20 | PASS |
|                |      |      | NV | 20  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 30  | -20000.00 | -3.457217  | 20 | PASS |
|                |      |      | NV | 40  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 50  | 0.00      | 0.000000   | 20 | PASS |
|                |      | 5825 | NV | -30 | -40000.00 | -6.866953  | 20 | PASS |
|                |      |      | NV | -20 | -40000.00 | -6.866953  | 20 | PASS |
|                |      |      | NV | -10 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 0   | -20000.00 | -3.433476  | 20 | PASS |
|                |      |      | NV | 10  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 20  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 30  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 40  | -20000.00 | -3.433476  | 20 | PASS |
|                |      |      | NV | 50  | -40000.00 | -6.866953  | 20 | PASS |
| 11N40SI<br>SO  | Ant1 | 5755 | NV | -30 | -40000.00 | -6.950478  | 20 | PASS |
|                |      |      | NV | -20 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | -10 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 0   | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 10  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 20  | -40000.00 | -6.950478  | 20 | PASS |
|                |      |      | NV | 30  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 40  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 50  | 0.00      | 0.000000   | 20 | PASS |
|                |      | 5795 | NV | -30 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | -20 | 40000.00  | 6.902502   | 20 | PASS |
|                |      |      | NV | -10 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 0   | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 10  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 20  | -40000.00 | -6.902502  | 20 | PASS |
|                |      |      | NV | 30  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 40  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 50  | 0.00      | 0.000000   | 20 | PASS |
| 11AC80S<br>ISO | Ant1 | 5775 | NV | -30 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | -20 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | -10 | -80000.00 | -13.852814 | 20 | PASS |
|                |      |      | NV | 0   | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 10  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 20  | -80000.00 | -13.852814 | 20 | PASS |
|                |      |      | NV | 30  | 0.00      | 0.000000   | 20 | PASS |





|  |  |  |    |    |           |            |    |      |
|--|--|--|----|----|-----------|------------|----|------|
|  |  |  | NV | 40 | 0.00      | 0.000000   | 20 | PASS |
|  |  |  | NV | 50 | -80000.00 | -13.852814 | 20 | PASS |





## E.6 Duty Cycle

### Test Result

| TestMode   | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|----------------|----------------------------|--------------------------|----------------|
| 11A        | Ant1    | 5745           | 1.40                       | 1.45                     | 96.55          |
|            |         | 5785           | 1.39                       | 1.45                     | 95.86          |
|            |         | 5825           | 1.39                       | 1.45                     | 95.86          |
| 11N20SISO  | Ant1    | 5745           | 1.18                       | 1.23                     | 95.93          |
|            |         | 5785           | 1.18                       | 1.23                     | 95.93          |
|            |         | 5825           | 1.18                       | 1.24                     | 95.16          |
| 11N40SISO  | Ant1    | 5755           | 0.59                       | 0.64                     | 92.19          |
|            |         | 5795           | 0.58                       | 0.64                     | 90.63          |
| 11AC20SISO | Ant1    | 5745           | 1.18                       | 1.24                     | 95.16          |
|            |         | 5785           | 1.18                       | 1.24                     | 95.16          |
|            |         | 5825           | 1.19                       | 1.24                     | 95.97          |
| 11AC40SISO | Ant1    | 5755           | 0.59                       | 0.65                     | 90.77          |
|            |         | 5795           | 0.60                       | 0.67                     | 89.55          |
| 11AC80SISO | Ant1    | 5775           | 0.29                       | 0.35                     | 82.86          |





## Test Graphs

