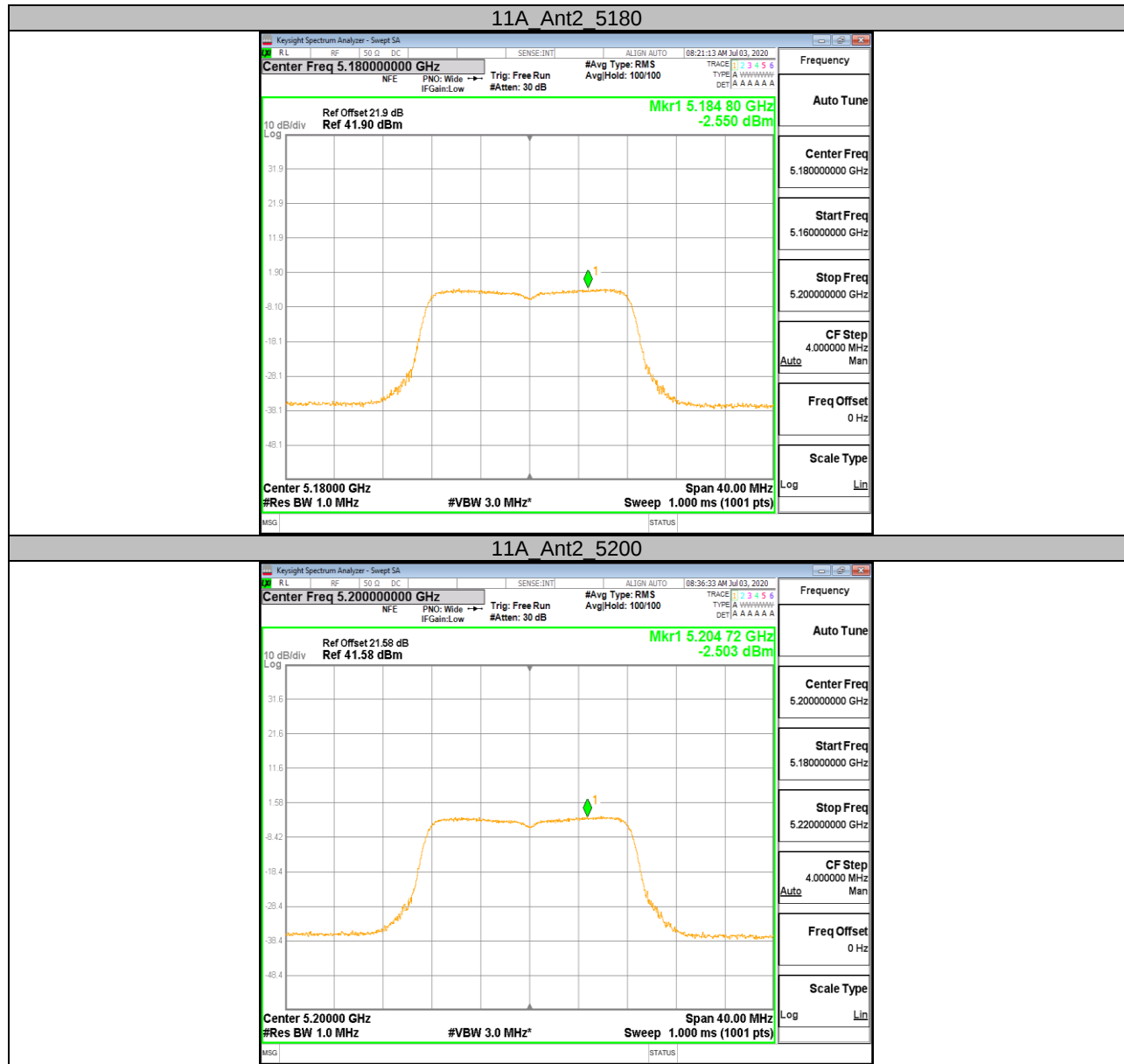
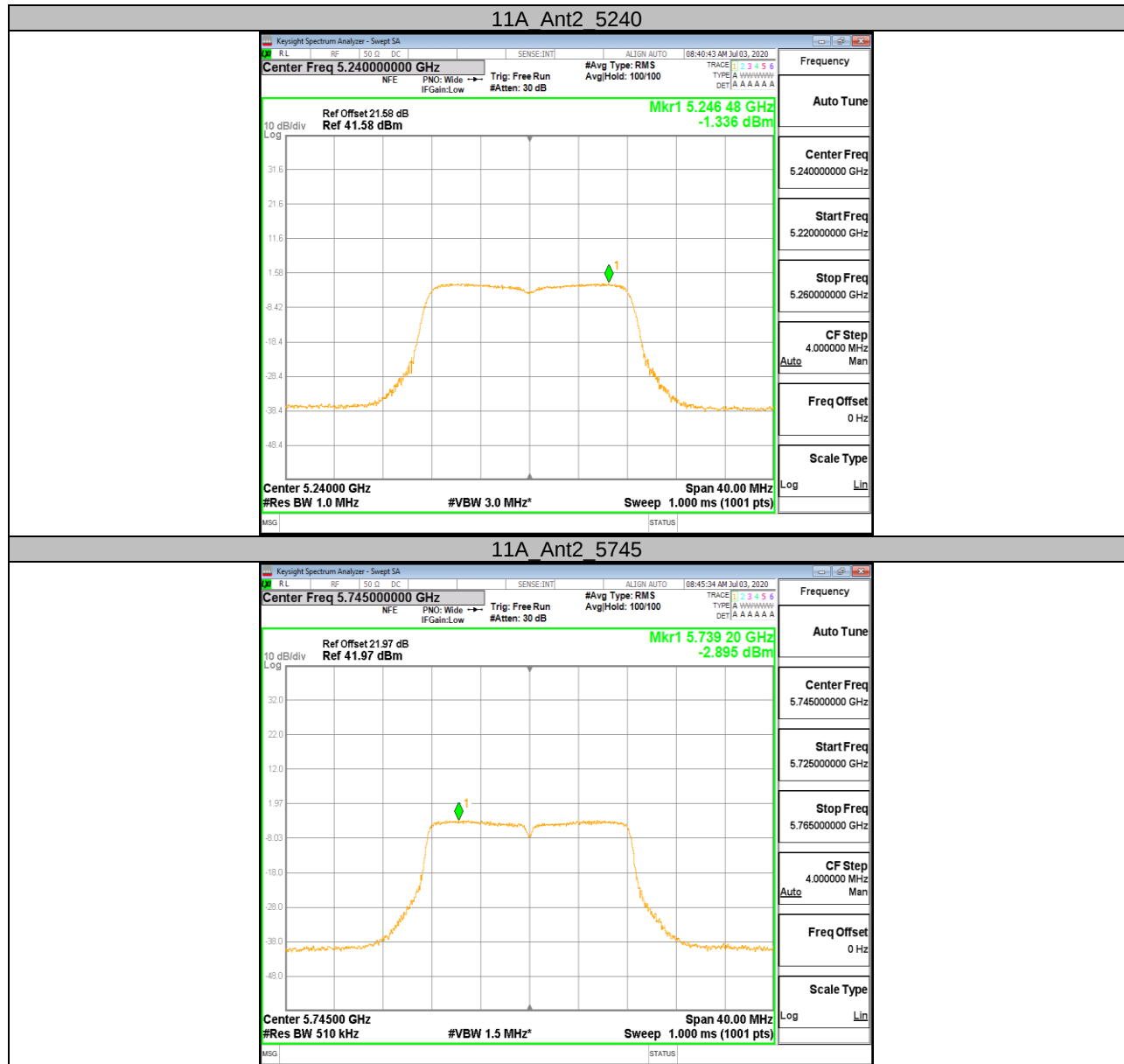


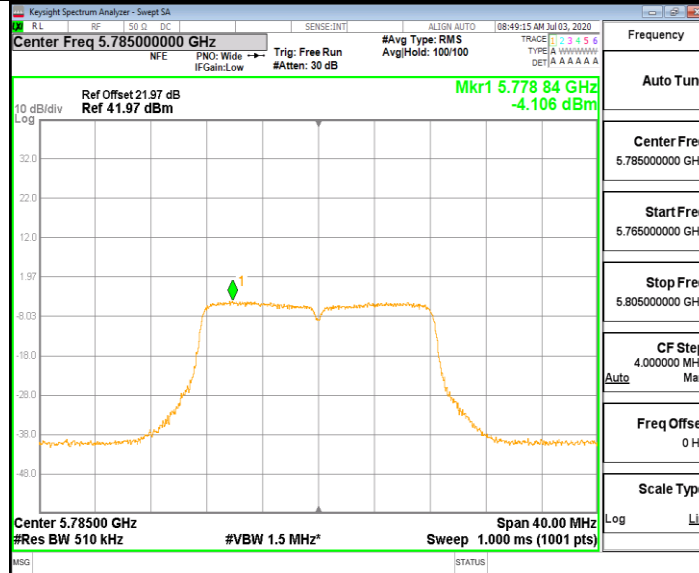
## 11.5.2. Test Graphs



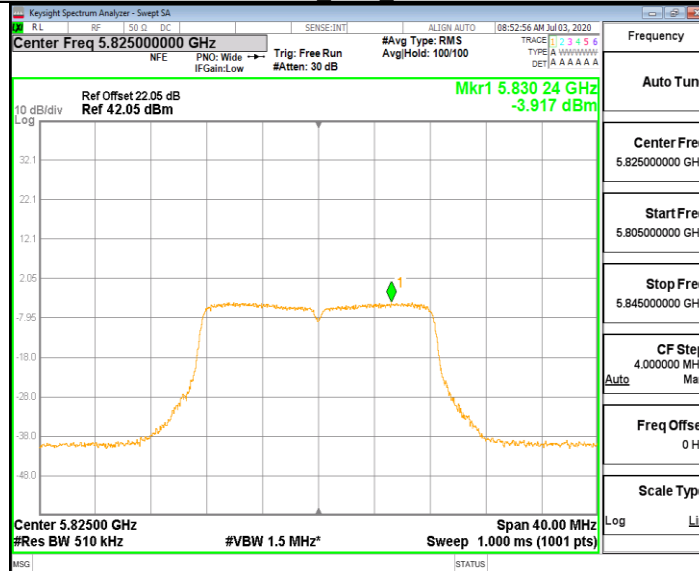


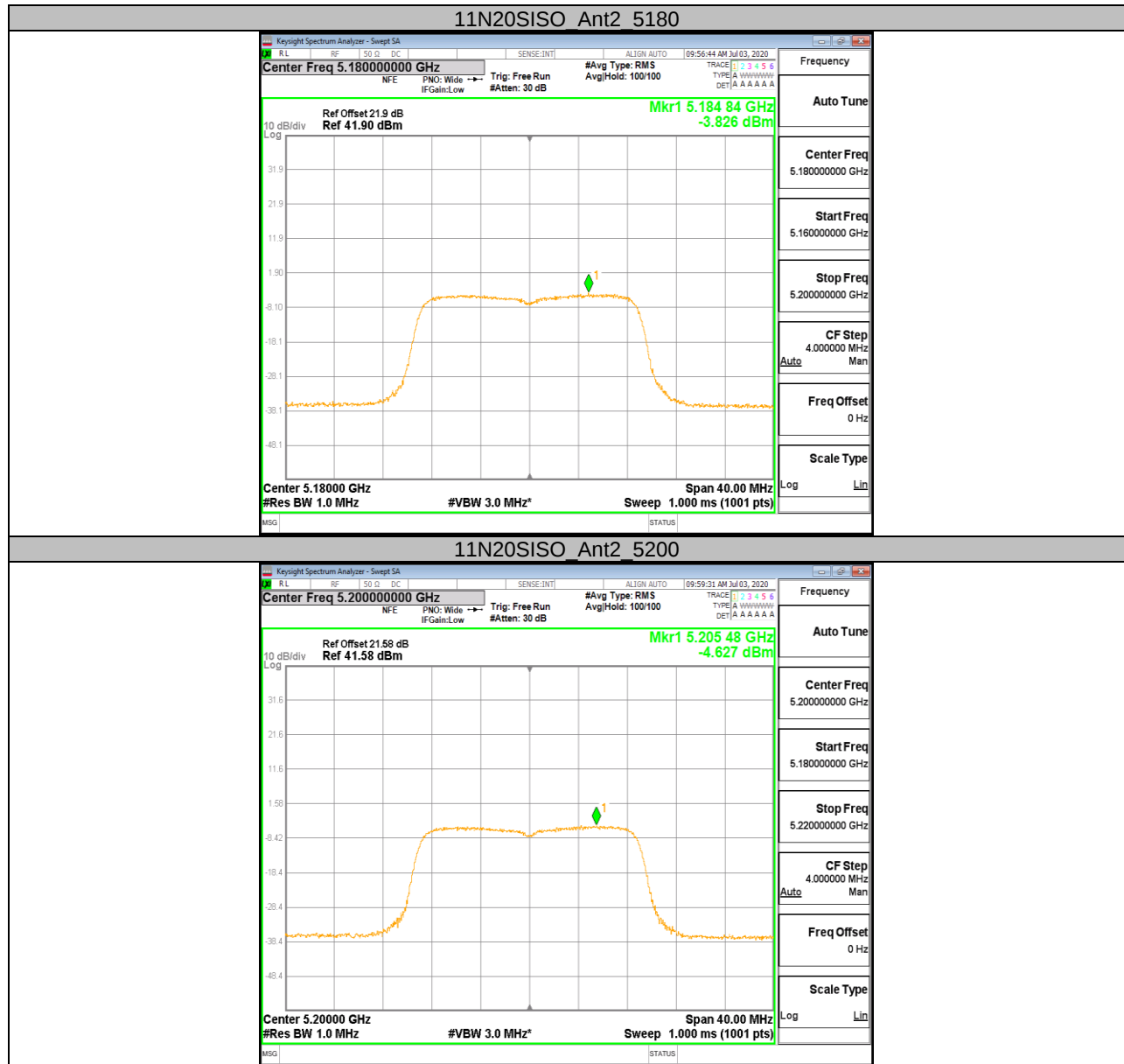


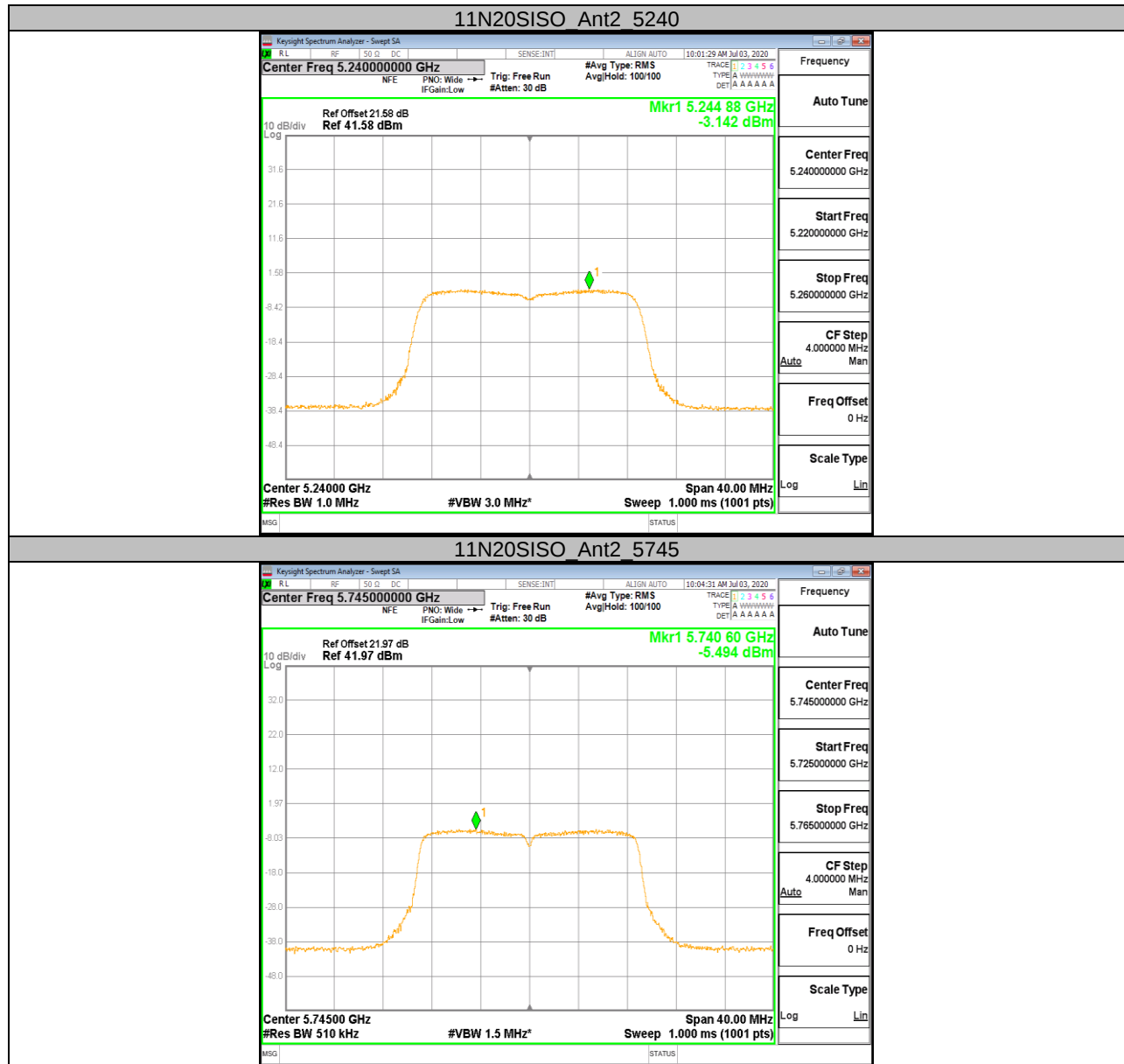
11A Ant2 5785

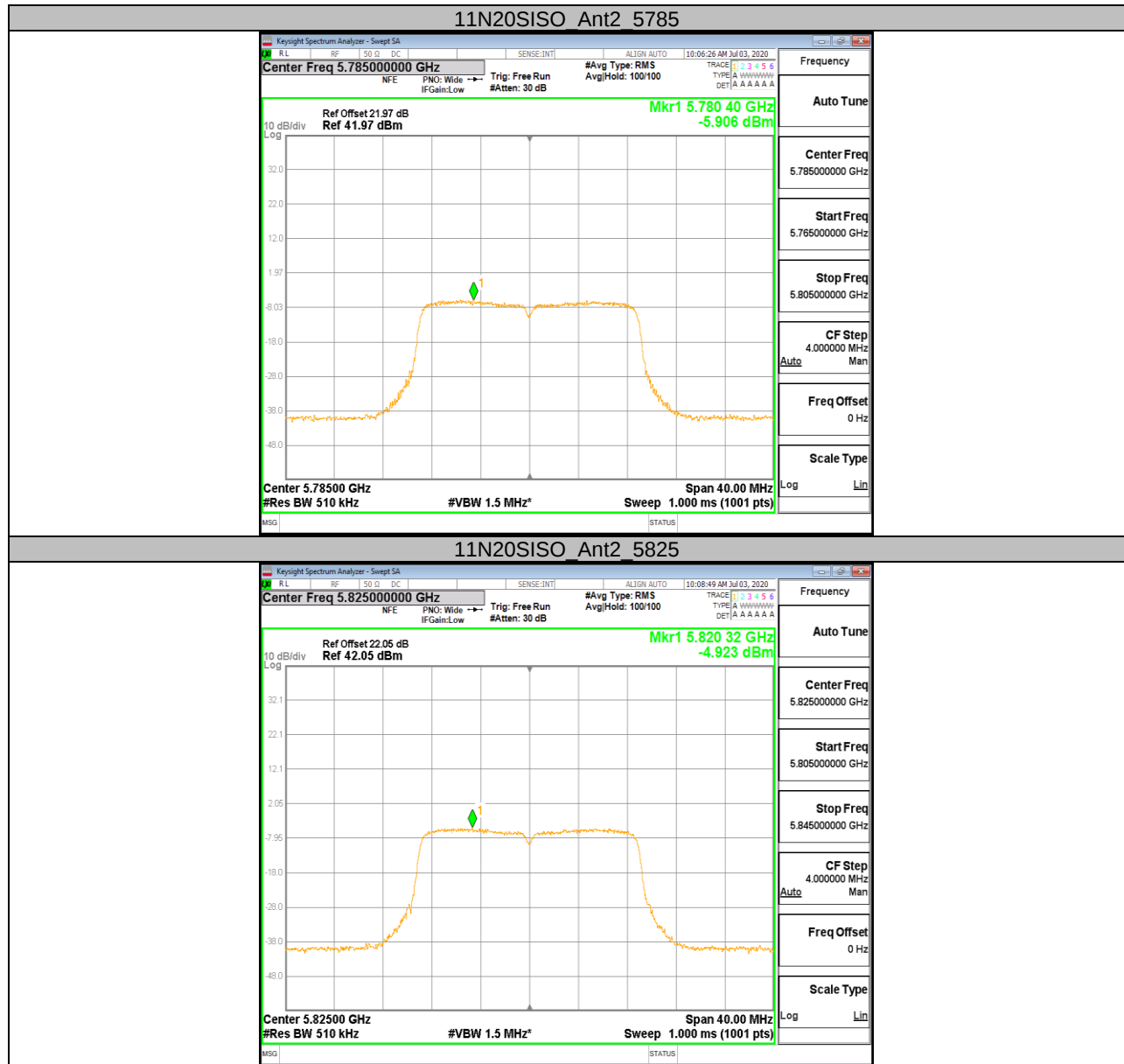


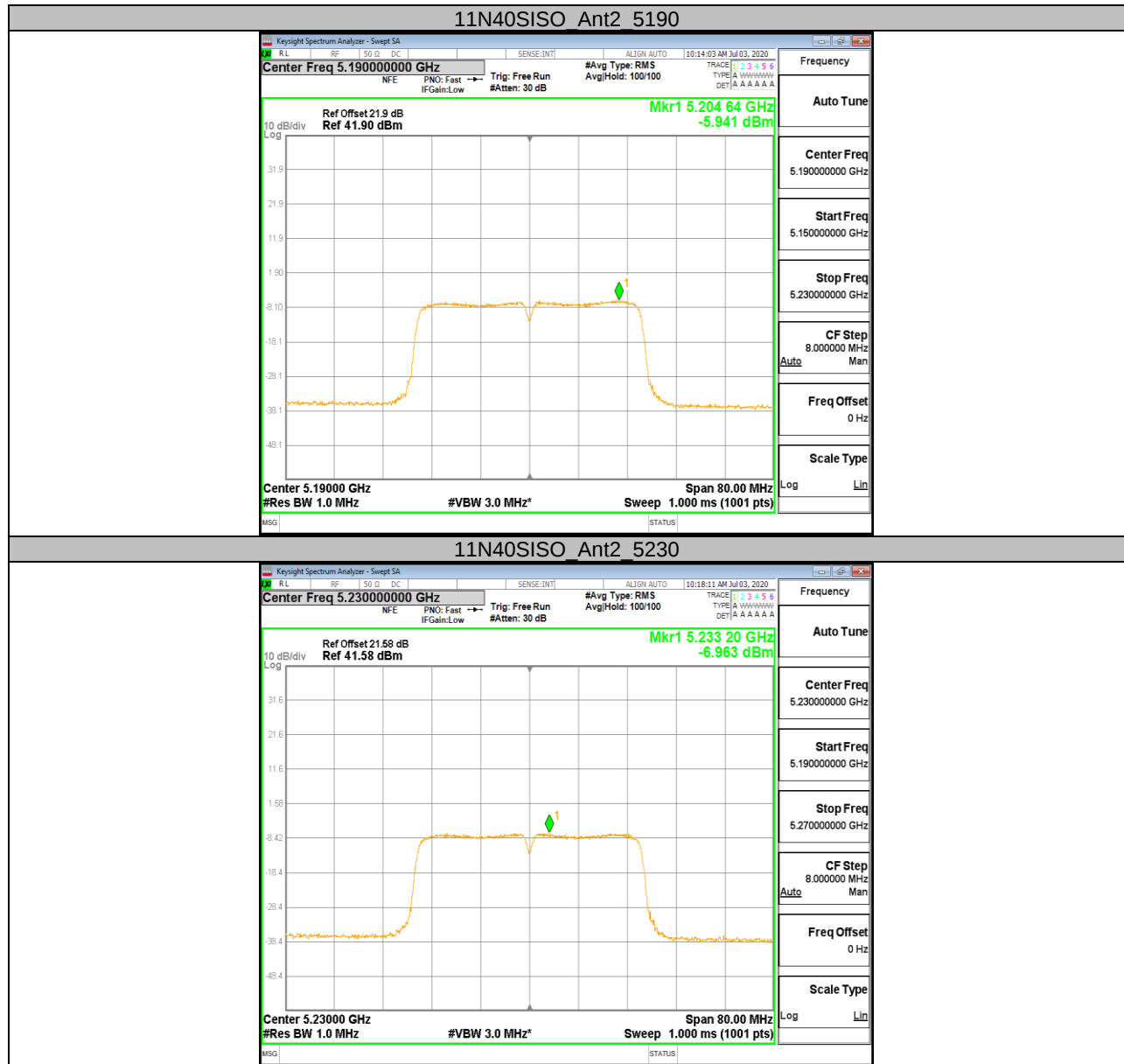
11A Ant2 5825

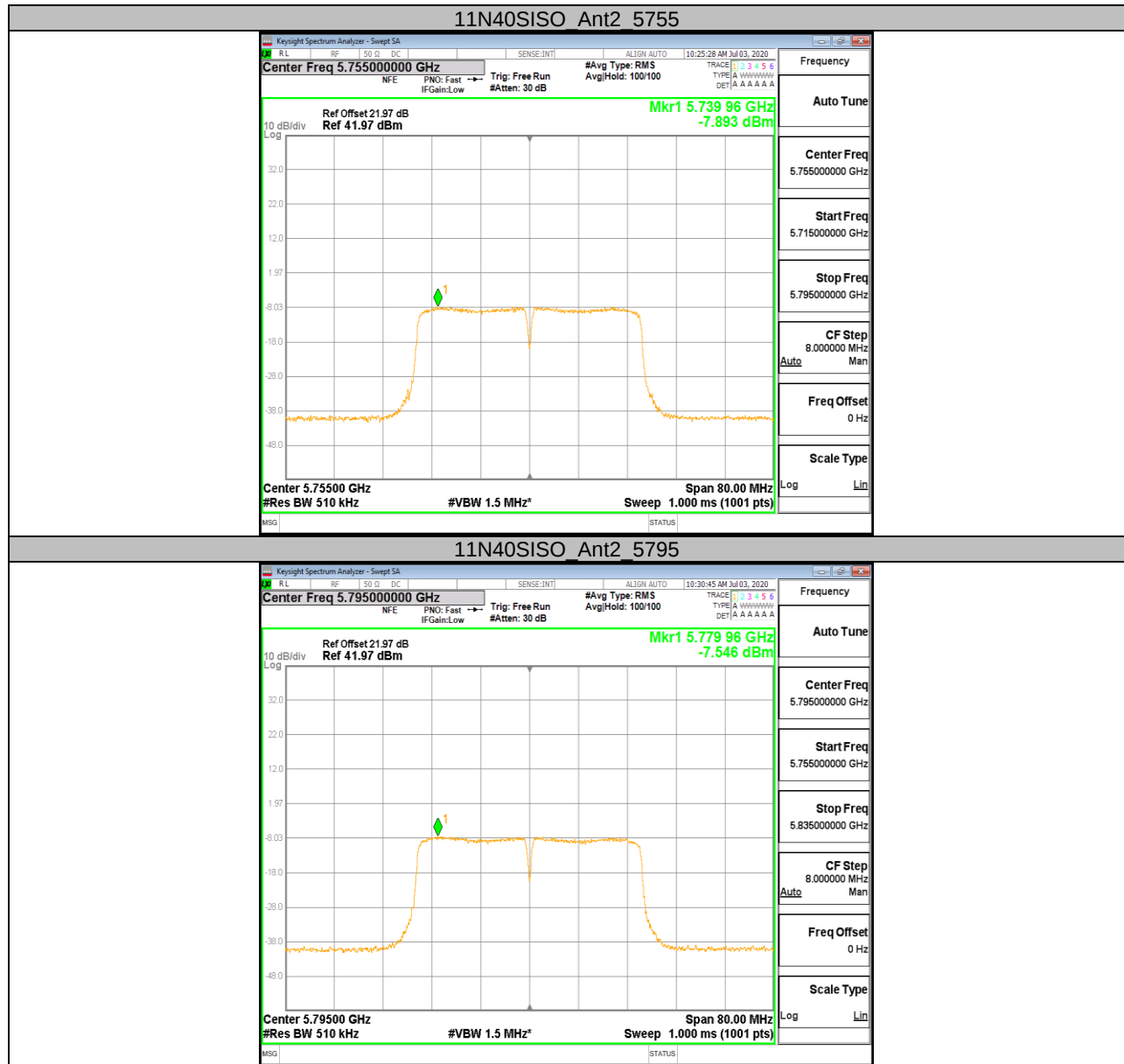


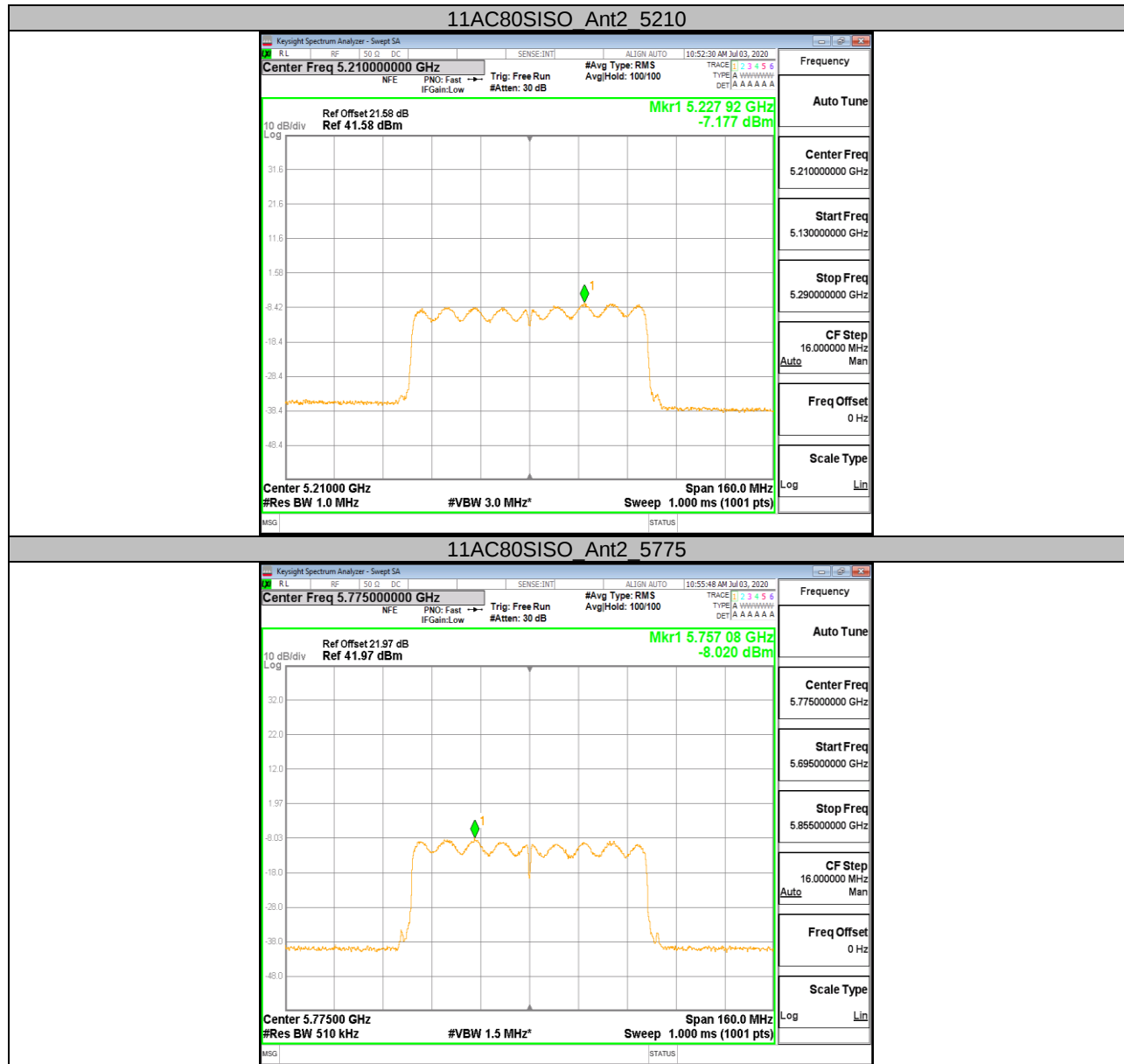














## 11.6. Appendix D: Duty Cycle

### 11.6.1. Test Result

| Test Mode  | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|------------|----------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|-----------------------------|
| 11A20      | 100            | 100           | 1.0                   | 100%           | 0                                 | 0.01                  | 0.01                        |
| 11N20SISO  | 100            | 100           | 1.0                   | 100%           | 0                                 | 0.01                  | 0.01                        |
| 11N40SISO  | 100            | 100           | 1.0                   | 100%           | 0                                 | 0.01                  | 0.01                        |
| 11AC20SISO | 100            | 100           | 1.0                   | 100%           | 0                                 | 0.01                  | 0.01                        |
| 11AC40SISO | 100            | 100           | 1.0                   | 100%           | 0                                 | 0.01                  | 0.01                        |
| 11AC80SISO | 100            | 100           | 1.0                   | 100%           | 0                                 | 0.01                  | 0.01                        |

Note:

Duty Cycle Correction Factor=10log (1/x).

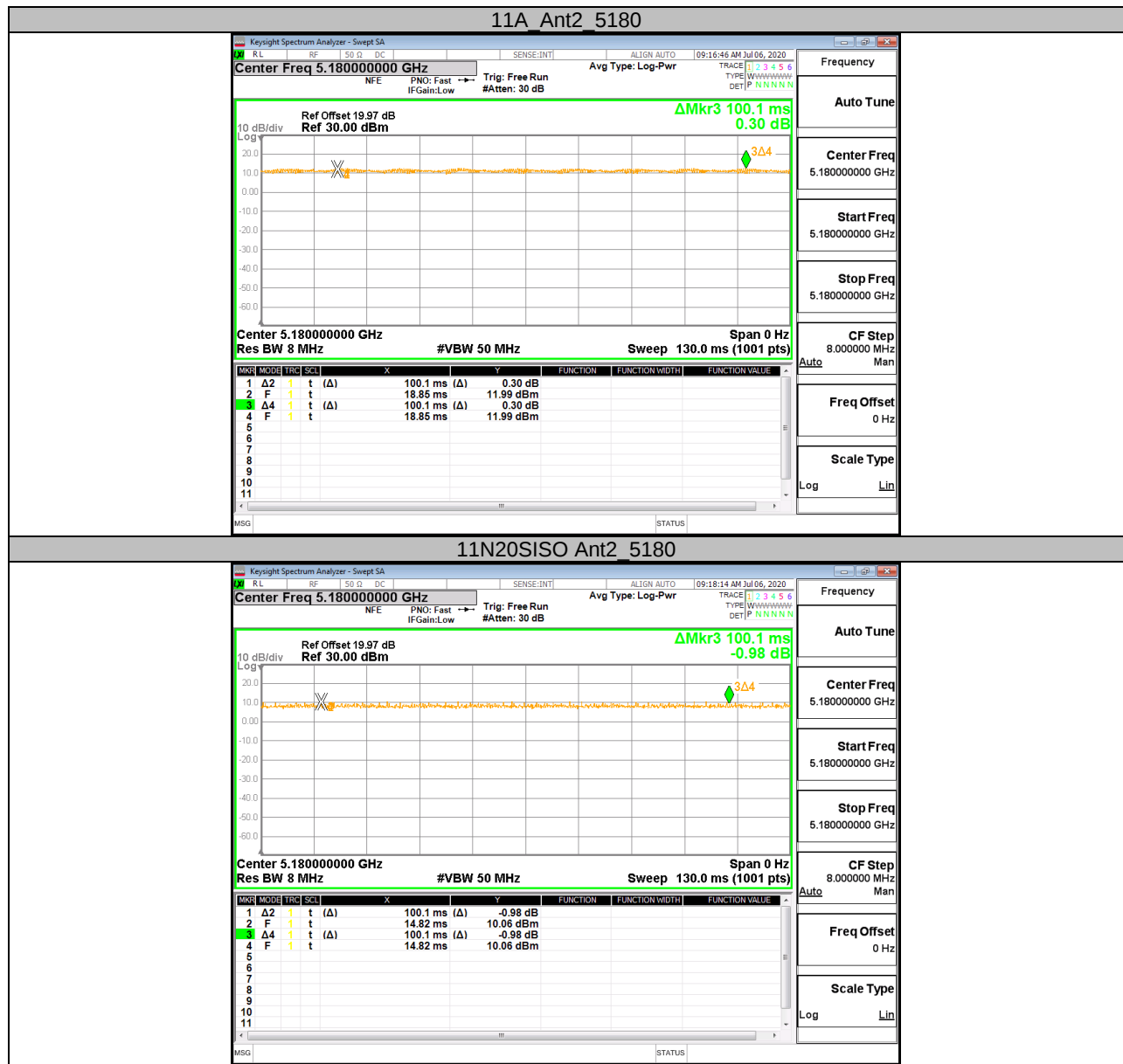
Where: x is Duty Cycle (Linear)

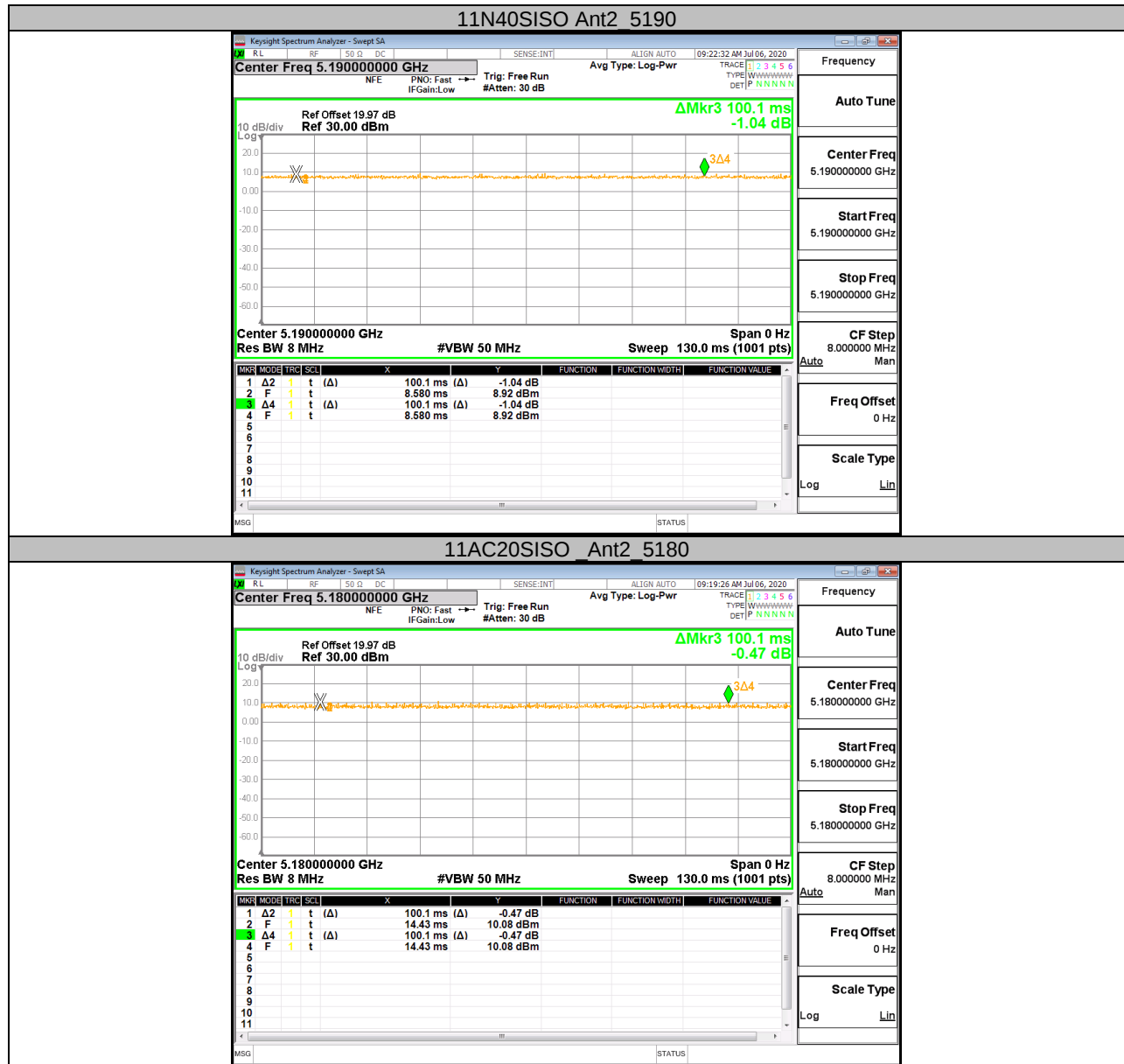
Where: T is On Time

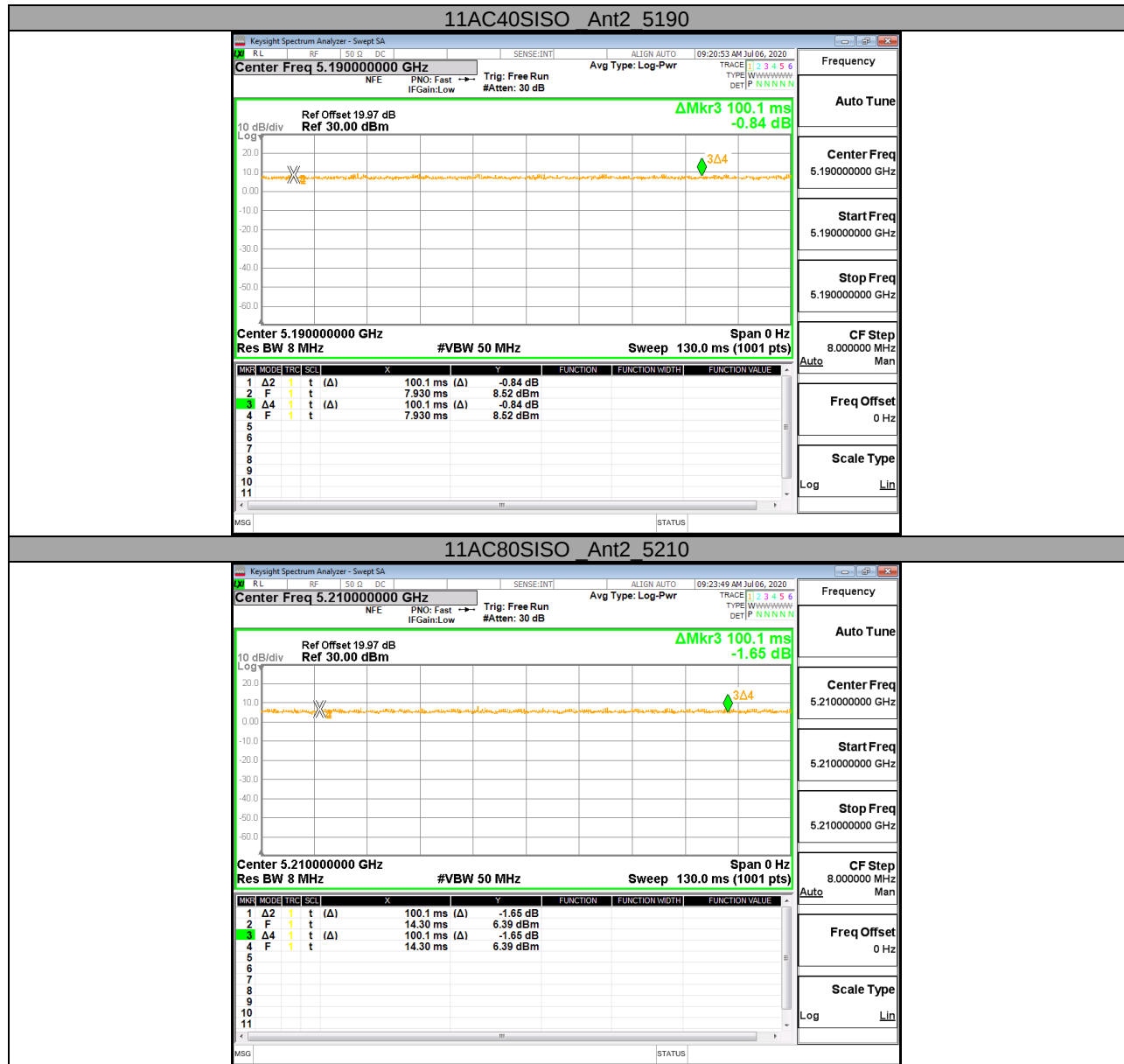
If that calculated VBW is not available on the analyzer then the next higher value should be used.



## 11.6.2. Test Graphs







**11.7. Appendix E: Frequency Stability****11.7.1. Test Result**

| Frequency Error vs. Voltage     |       |                  |                 |                  |                 |                  |                 |                  |                 |
|---------------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a20:5200MHz               |       |                  |                 |                  |                 |                  |                 |                  |                 |
| Temp.                           | Volt. | 0 Minute         |                 | 2 Minute         |                 | 5 Minute         |                 | 10 Minute        |                 |
|                                 |       | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| TN                              | VL    | 5200.0150        | 2.89            | 5199.9785        | -4.14           | 5199.9893        | -2.05           | 5199.9948        | -1.00           |
| TN                              | VN    | 5200.0127        | 2.44            | 5199.9794        | -3.95           | 5199.9826        | -3.34           | 5199.9864        | -2.61           |
| TN                              | VH    | 5200.0100        | 1.93            | 5199.9757        | -4.67           | 5199.9959        | -0.79           | 5200.0227        | 4.37            |
| Frequency Error vs. Temperature |       |                  |                 |                  |                 |                  |                 |                  |                 |
| 802.11a20:5200MHz               |       |                  |                 |                  |                 |                  |                 |                  |                 |
| Temp.                           | Volt. | 0 Minute         |                 | 2 Minute         |                 | 5 Minute         |                 | 10 Minute        |                 |
|                                 |       | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| 40                              | VN    | 5200.0043        | 0.84            | 5200.0098        | 1.88            | 5200.0143        | 2.75            | 5199.9750        | -4.81           |
| 30                              | VN    | 5200.0223        | 4.29            | 5199.9871        | -2.47           | 5200.0070        | 1.36            | 5200.0130        | 2.49            |
| 20                              | VN    | 5200.0096        | 1.84            | 5199.9964        | -0.69           | 5200.0071        | 1.37            | 5200.0132        | 2.53            |
| 10                              | VN    | 5200.0035        | 0.67            | 5199.9876        | -2.39           | 5199.9885        | -2.22           | 5200.0054        | 1.04            |
| 0                               | VN    | 5200.0044        | 0.85            | 5200.0166        | 3.19            | 5199.9895        | -2.03           | 5200.0052        | 0.99            |
| Frequency Error vs. Voltage     |       |                  |                 |                  |                 |                  |                 |                  |                 |
| 802.11a20:5825MHz               |       |                  |                 |                  |                 |                  |                 |                  |                 |
| Temp.                           | Volt. | 0 Minute         |                 | 2 Minute         |                 | 5 Minute         |                 | 10 Minute        |                 |
|                                 |       | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| TN                              | VL    | 5825.0011        | 0.19            | 5824.9817        | -3.14           | 5825.0161        | 2.76            | 5824.9929        | -1.21           |
| TN                              | VN    | 5825.0181        | 3.11            | 5825.0230        | 3.96            | 5825.0013        | 0.22            | 5824.9850        | -2.57           |
| TN                              | VH    | 5825.0130        | 2.23            | 5825.0105        | 1.80            | 5824.9943        | -0.99           | 5824.9762        | -4.08           |
| Frequency Error vs. Temperature |       |                  |                 |                  |                 |                  |                 |                  |                 |
| 802.11a20:5825MHz               |       |                  |                 |                  |                 |                  |                 |                  |                 |
| Temp.                           | Volt. | 0 Minute         |                 | 2 Minute         |                 | 5 Minute         |                 | 10 Minute        |                 |
|                                 |       | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| 40                              | VN    | 5824.9898        | -1.75           | 5824.9762        | -4.08           | 5824.9762        | -4.09           | 5824.9786        | -3.67           |
| 30                              | VN    | 5824.9933        | -1.15           | 5825.0236        | 4.05            | 5824.9841        | -2.73           | 5825.0230        | 3.95            |
| 20                              | VN    | 5824.9815        | -3.18           | 5825.0089        | 1.52            | 5824.9931        | -1.18           | 5824.9753        | -4.24           |
| 10                              | VN    | 5824.9842        | -2.71           | 5825.0215        | 3.69            | 5825.0116        | 2.00            | 5824.9874        | -2.16           |
| 0                               | VN    | 5825.0231        | 3.97            | 5824.9781        | -3.76           | 5824.9837        | -2.81           | 5825.0193        | 3.31            |

Note: All the test modes have been tested, only the worst data record in the report.

**END OF REPORT**