

## Appendix: 5G WIFI

Contents

Appendix A: Emission Bandwidth ..... 3

    Test Result ..... 3

    Test Graphs ..... 5

Appendix B: Occupied channel bandwidth ..... 33

    Test Result ..... 33

    Test Graphs ..... 35

Appendix C: Min emission bandwidth ..... 63

    Test Result B4 ..... 63

    Test Graphs B4 ..... 64

Appendix D: Duty Cycle ..... 78

    Test Result ..... 78

    Test Graphs ..... 81

Appendix E: Maximum conducted output power ..... 131

    Test Result Channel Power ..... 131

Appendix F: Maximum power spectral density ..... 135

    Test Result ..... 135

    Test Graphs ..... 139

Appendix G: Frequency Stability ..... 189

    Test Result ..... 189

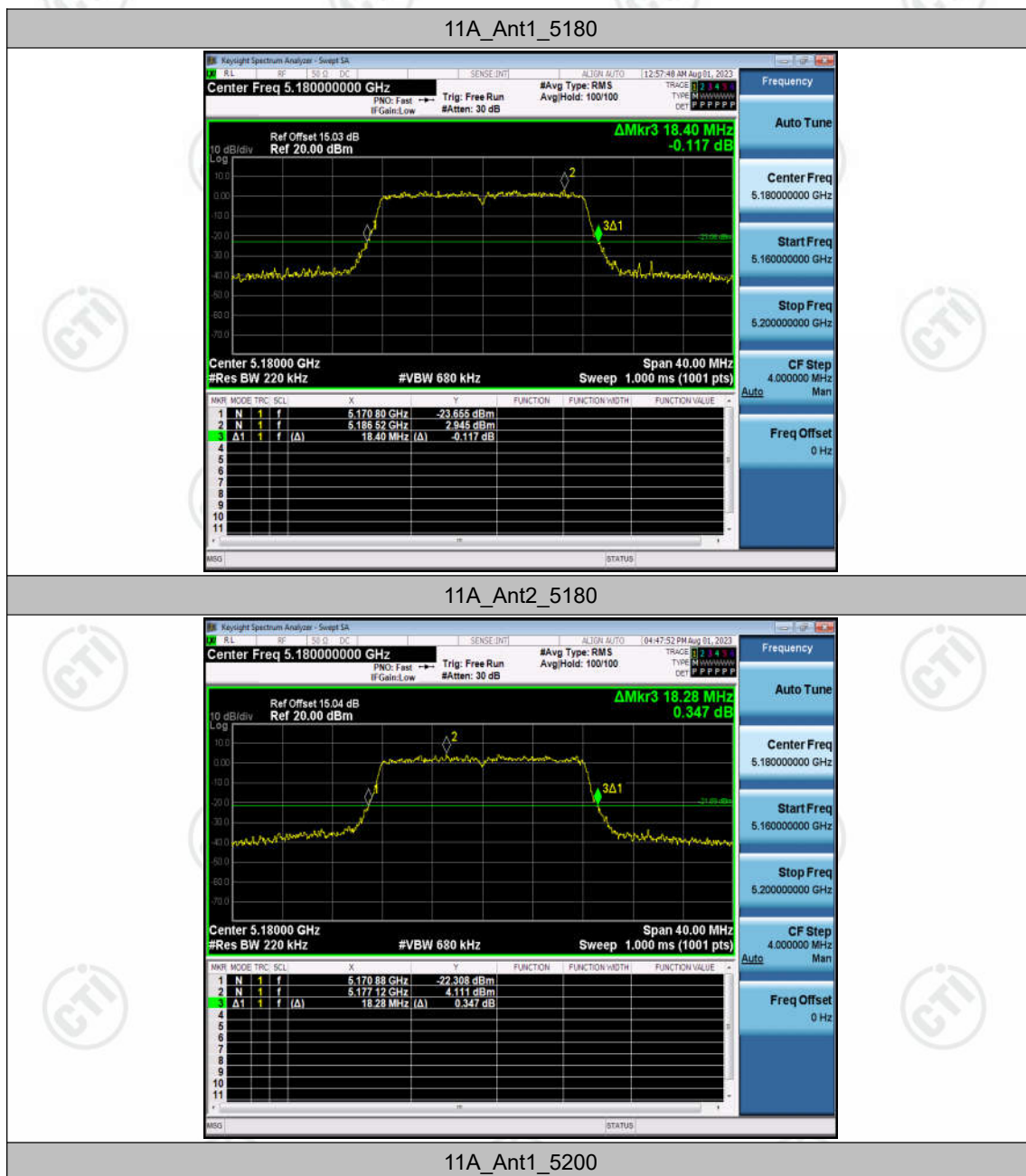
## Appendix A: Emission Bandwidth

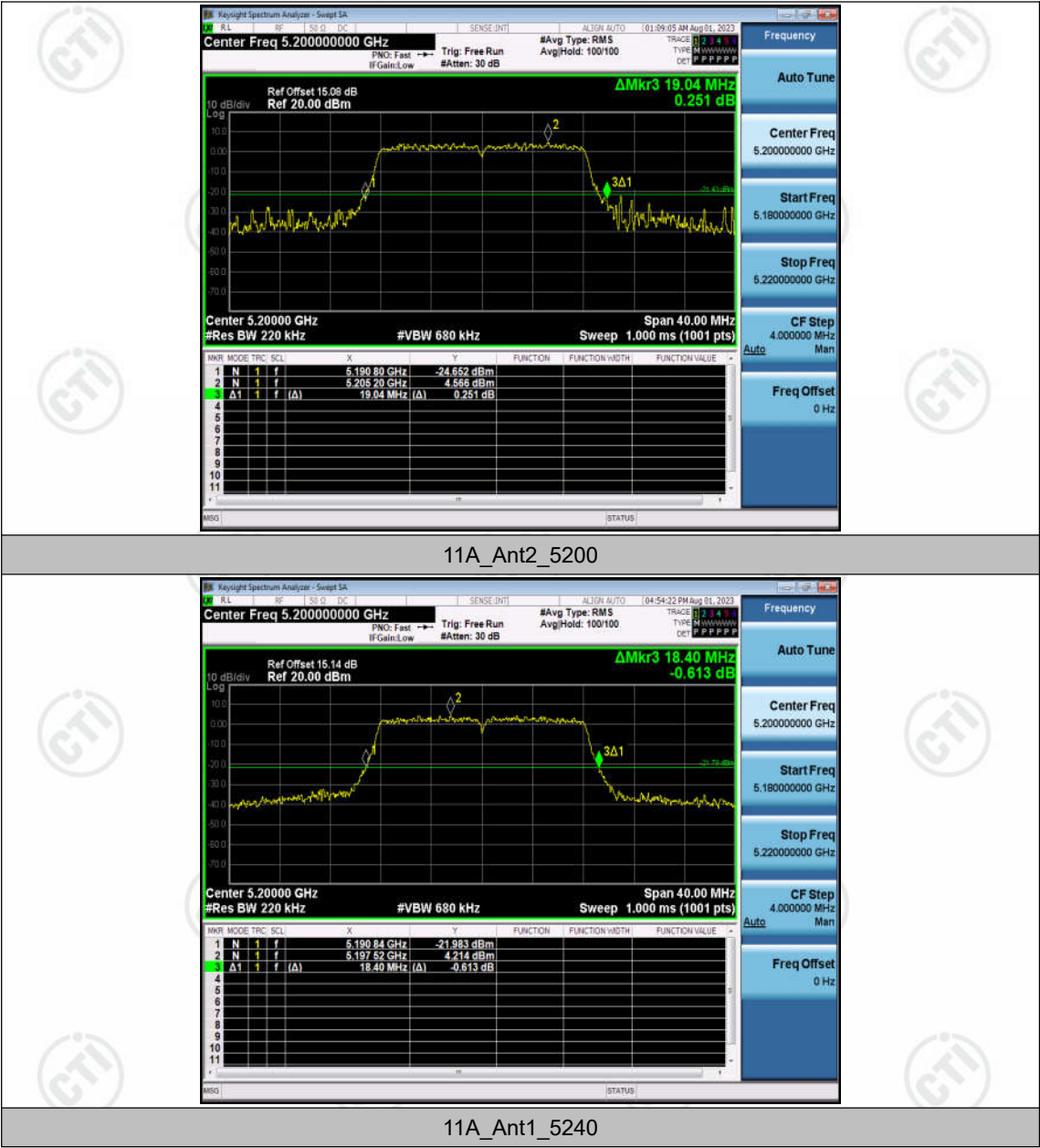
### Test Result

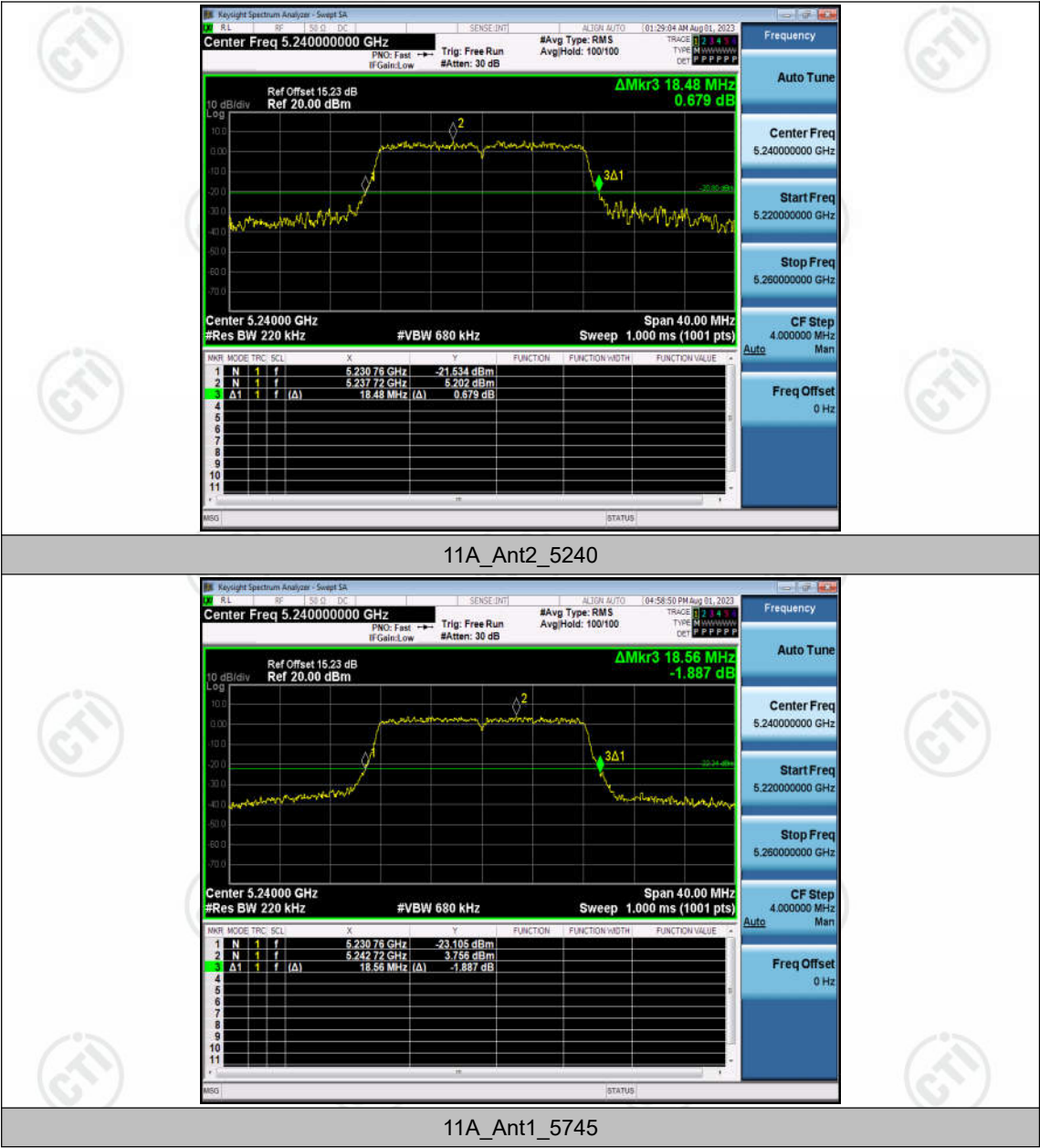
| TestMode      | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|---------------|---------|----------------|----------------|----------|----------|------------|---------|
| 11A           | Ant1    | 5180           | 18.400         | 5170.800 | 5189.200 | ---        | ---     |
|               | Ant2    | 5180           | 18.280         | 5170.880 | 5189.160 | ---        | ---     |
|               | Ant1    | 5200           | 19.040         | 5190.800 | 5209.840 | ---        | ---     |
|               | Ant2    | 5200           | 18.400         | 5190.840 | 5209.240 | ---        | ---     |
|               | Ant1    | 5240           | 18.480         | 5230.760 | 5249.240 | ---        | ---     |
|               | Ant2    | 5240           | 18.560         | 5230.760 | 5249.320 | ---        | ---     |
|               | Ant1    | 5745           | 18.520         | 5735.720 | 5754.240 | ---        | ---     |
|               | Ant2    | 5745           | 19.440         | 5735.320 | 5754.760 | ---        | ---     |
|               | Ant1    | 5785           | 18.600         | 5775.720 | 5794.320 | ---        | ---     |
|               | Ant2    | 5785           | 18.680         | 5775.560 | 5794.240 | ---        | ---     |
|               | Ant1    | 5825           | 18.560         | 5815.720 | 5834.280 | ---        | ---     |
|               | Ant2    | 5825           | 18.440         | 5815.720 | 5834.160 | ---        | ---     |
| 11N20SI<br>SO | Ant1    | 5180           | 19.400         | 5170.360 | 5189.760 | ---        | ---     |
|               | Ant2    | 5180           | 19.440         | 5170.320 | 5189.760 | ---        | ---     |
|               | Ant1    | 5200           | 19.440         | 5190.280 | 5209.720 | ---        | ---     |
|               | Ant2    | 5200           | 19.320         | 5190.360 | 5209.680 | ---        | ---     |
|               | Ant1    | 5240           | 19.360         | 5230.320 | 5249.680 | ---        | ---     |
|               | Ant2    | 5240           | 19.400         | 5230.320 | 5249.720 | ---        | ---     |
|               | Ant1    | 5745           | 19.520         | 5735.240 | 5754.760 | ---        | ---     |
|               | Ant2    | 5745           | 19.360         | 5735.360 | 5754.720 | ---        | ---     |
|               | Ant1    | 5785           | 19.440         | 5775.240 | 5794.680 | ---        | ---     |
|               | Ant2    | 5785           | 19.440         | 5775.280 | 5794.720 | ---        | ---     |
|               | Ant1    | 5825           | 19.360         | 5815.320 | 5834.680 | ---        | ---     |
|               | Ant2    | 5825           | 19.520         | 5815.200 | 5834.720 | ---        | ---     |
| 11N40SI<br>SO | Ant1    | 5190           | 40.720         | 5169.760 | 5210.480 | ---        | ---     |
|               | Ant2    | 5190           | 40.880         | 5169.760 | 5210.640 | ---        | ---     |
|               | Ant1    | 5230           | 40.400         | 5209.840 | 5250.240 | ---        | ---     |
|               | Ant2    | 5230           | 41.120         | 5209.520 | 5250.640 | ---        | ---     |
|               | Ant1    | 5755           | 40.720         | 5734.520 | 5775.240 | ---        | ---     |
|               | Ant2    | 5755           | 40.720         | 5734.840 | 5775.560 | ---        | ---     |
|               | Ant1    | 5795           | 40.720         | 5774.760 | 5815.480 | ---        | ---     |
|               | Ant2    | 5795           | 41.120         | 5774.360 | 5815.480 | ---        | ---     |
| 11AC20S       | Ant1    | 5180           | 19.520         | 5170.280 | 5189.800 | ---        | ---     |

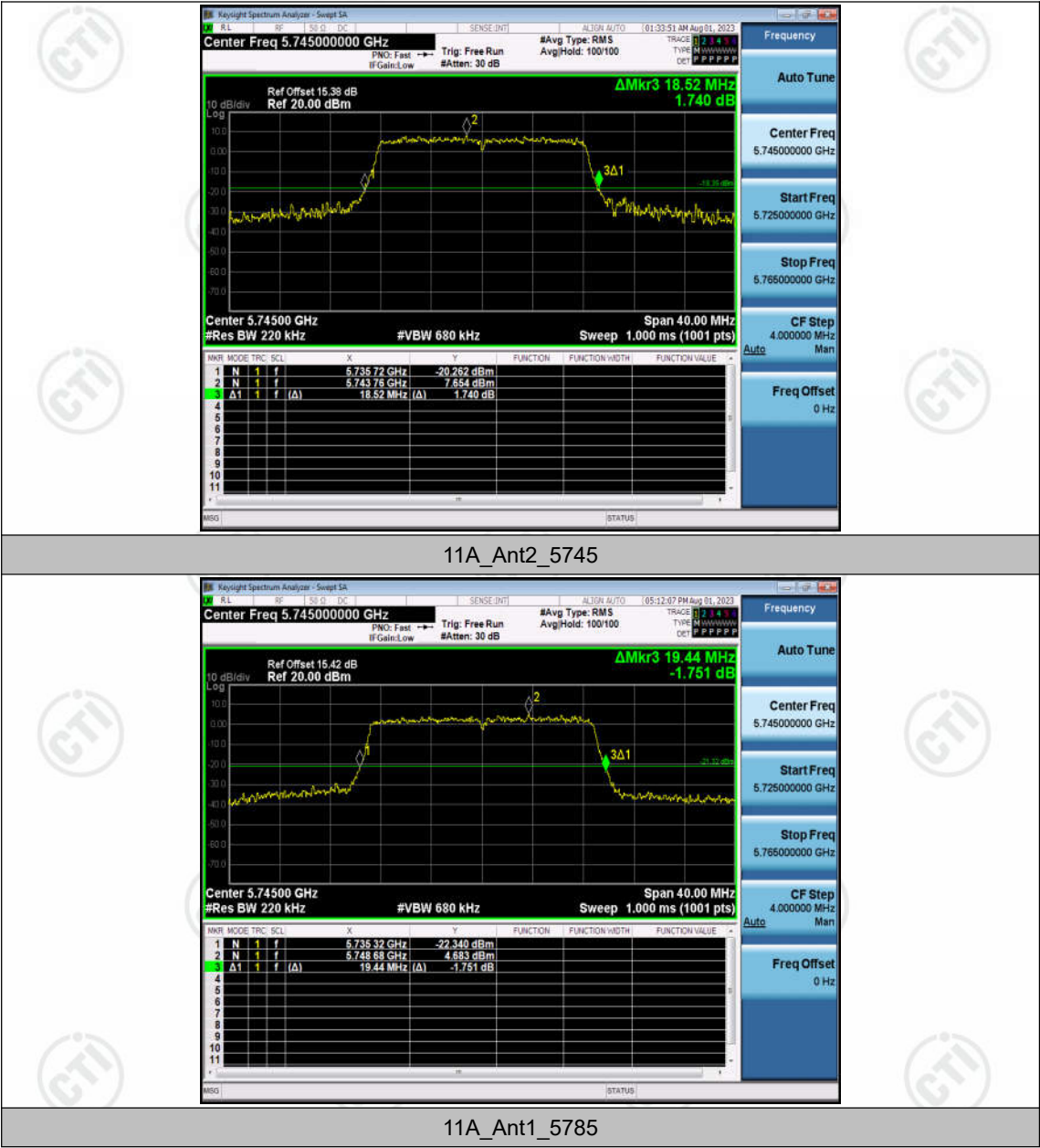
|                |      |      |        |          |          |     |     |
|----------------|------|------|--------|----------|----------|-----|-----|
| ISO            | Ant2 | 5180 | 19.360 | 5170.360 | 5189.720 | --- | --- |
|                | Ant1 | 5200 | 19.400 | 5190.400 | 5209.800 | --- | --- |
|                | Ant2 | 5200 | 19.560 | 5190.160 | 5209.720 | --- | --- |
|                | Ant1 | 5240 | 19.440 | 5230.360 | 5249.800 | --- | --- |
|                | Ant2 | 5240 | 19.560 | 5230.200 | 5249.760 | --- | --- |
|                | Ant1 | 5745 | 19.440 | 5735.360 | 5754.800 | --- | --- |
|                | Ant2 | 5745 | 19.360 | 5735.320 | 5754.680 | --- | --- |
|                | Ant1 | 5785 | 19.480 | 5775.320 | 5794.800 | --- | --- |
|                | Ant2 | 5785 | 19.520 | 5775.280 | 5794.800 | --- | --- |
|                | Ant1 | 5825 | 19.400 | 5815.320 | 5834.720 | --- | --- |
|                | Ant2 | 5825 | 19.360 | 5815.320 | 5834.680 | --- | --- |
| 11AC40S<br>ISO | Ant1 | 5190 | 41.040 | 5169.440 | 5210.480 | --- | --- |
|                | Ant2 | 5190 | 41.440 | 5169.520 | 5210.960 | --- | --- |
|                | Ant1 | 5230 | 40.480 | 5209.760 | 5250.240 | --- | --- |
|                | Ant2 | 5230 | 40.720 | 5209.600 | 5250.320 | --- | --- |
|                | Ant1 | 5755 | 40.320 | 5734.920 | 5775.240 | --- | --- |
|                | Ant2 | 5755 | 40.800 | 5734.840 | 5775.640 | --- | --- |
|                | Ant1 | 5795 | 40.960 | 5774.760 | 5815.720 | --- | --- |
|                | Ant2 | 5795 | 40.880 | 5774.600 | 5815.480 | --- | --- |
| 11AC80S<br>ISO | Ant1 | 5210 | 80.320 | 5170.000 | 5250.320 | --- | --- |
|                | Ant2 | 5210 | 80.480 | 5170.000 | 5250.480 | --- | --- |
|                | Ant1 | 5775 | 80.640 | 5734.840 | 5815.480 | --- | --- |
|                | Ant2 | 5775 | 80.800 | 5734.520 | 5815.320 | --- | --- |

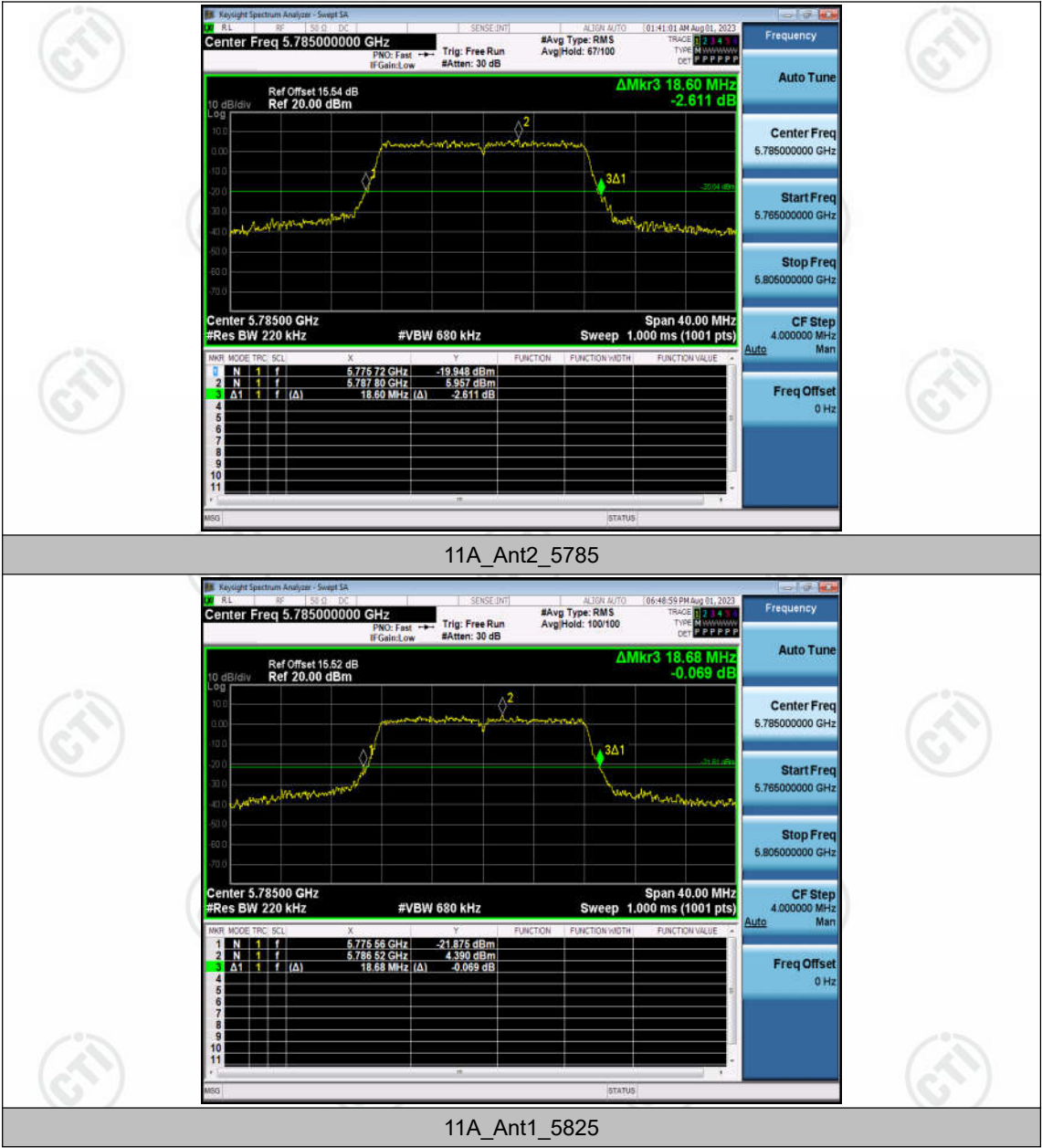
## Test Graphs

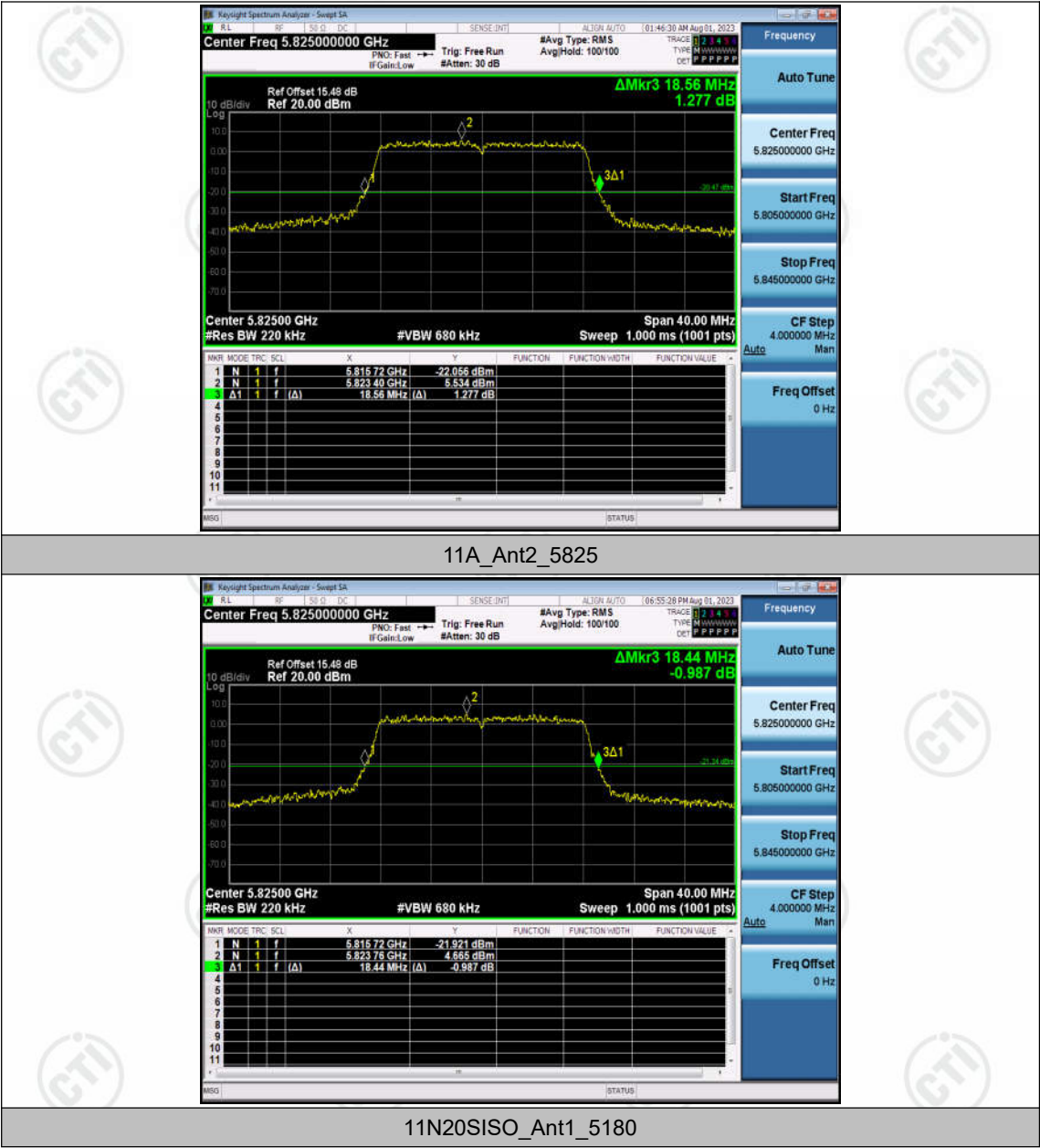


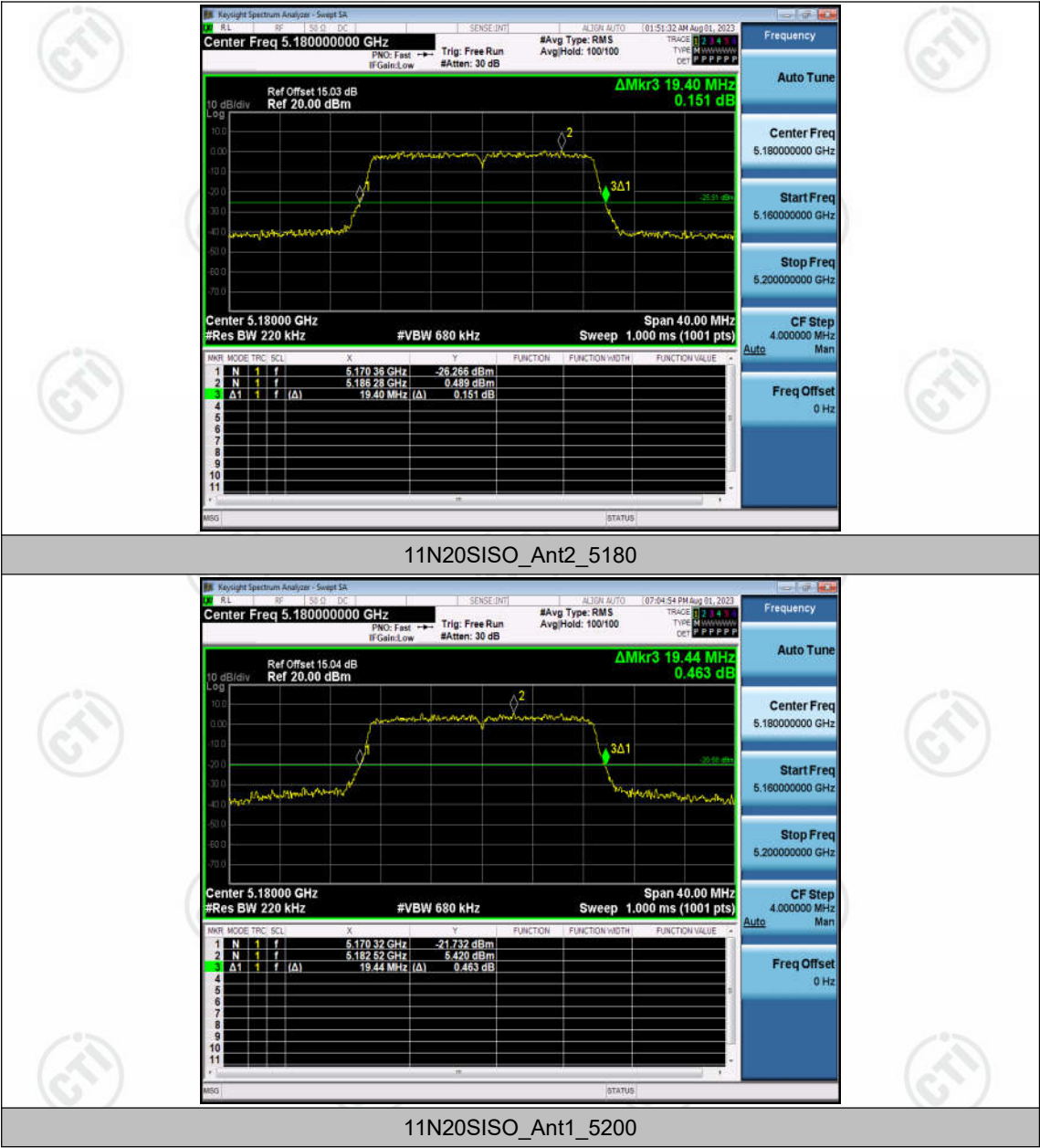


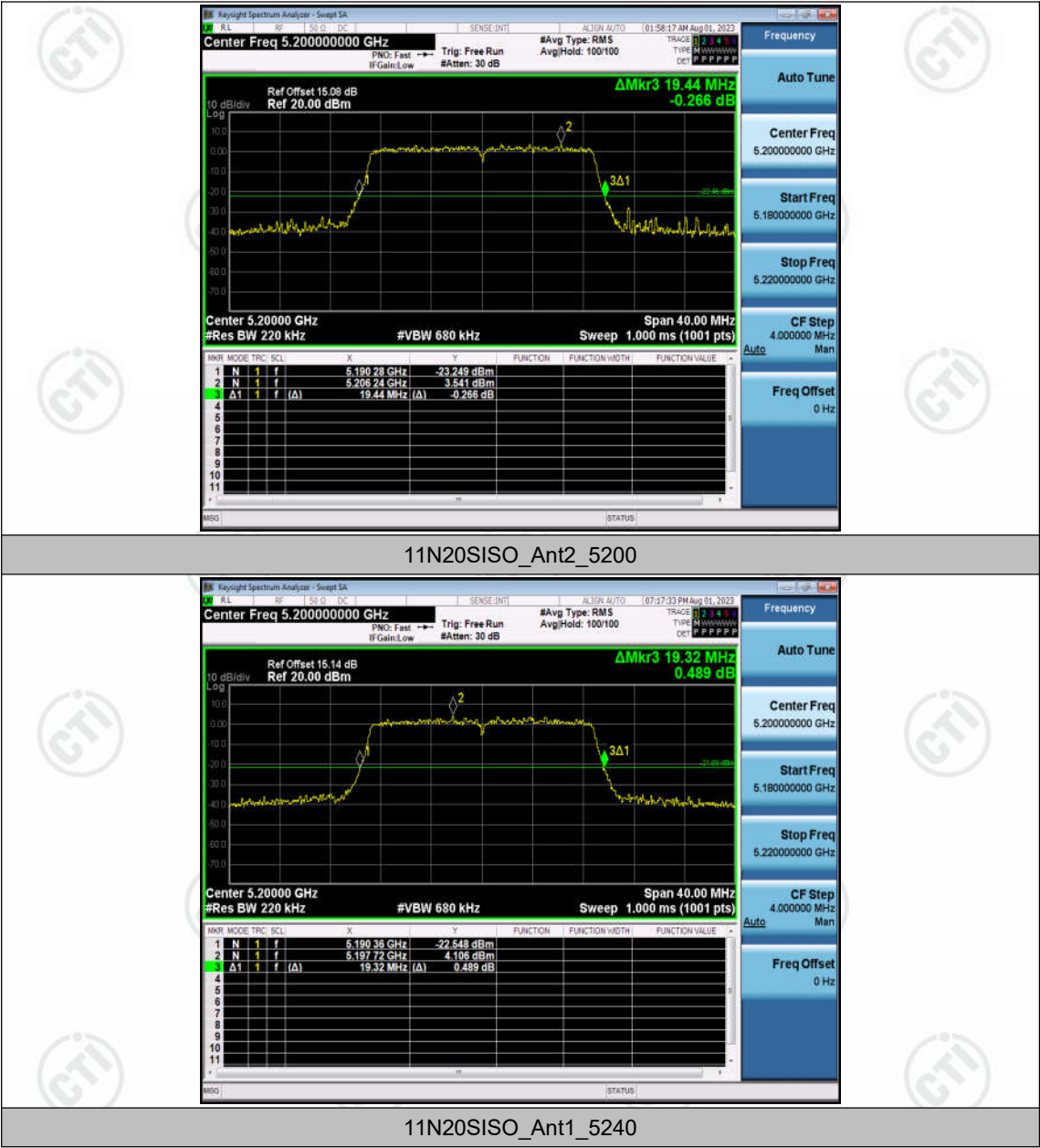


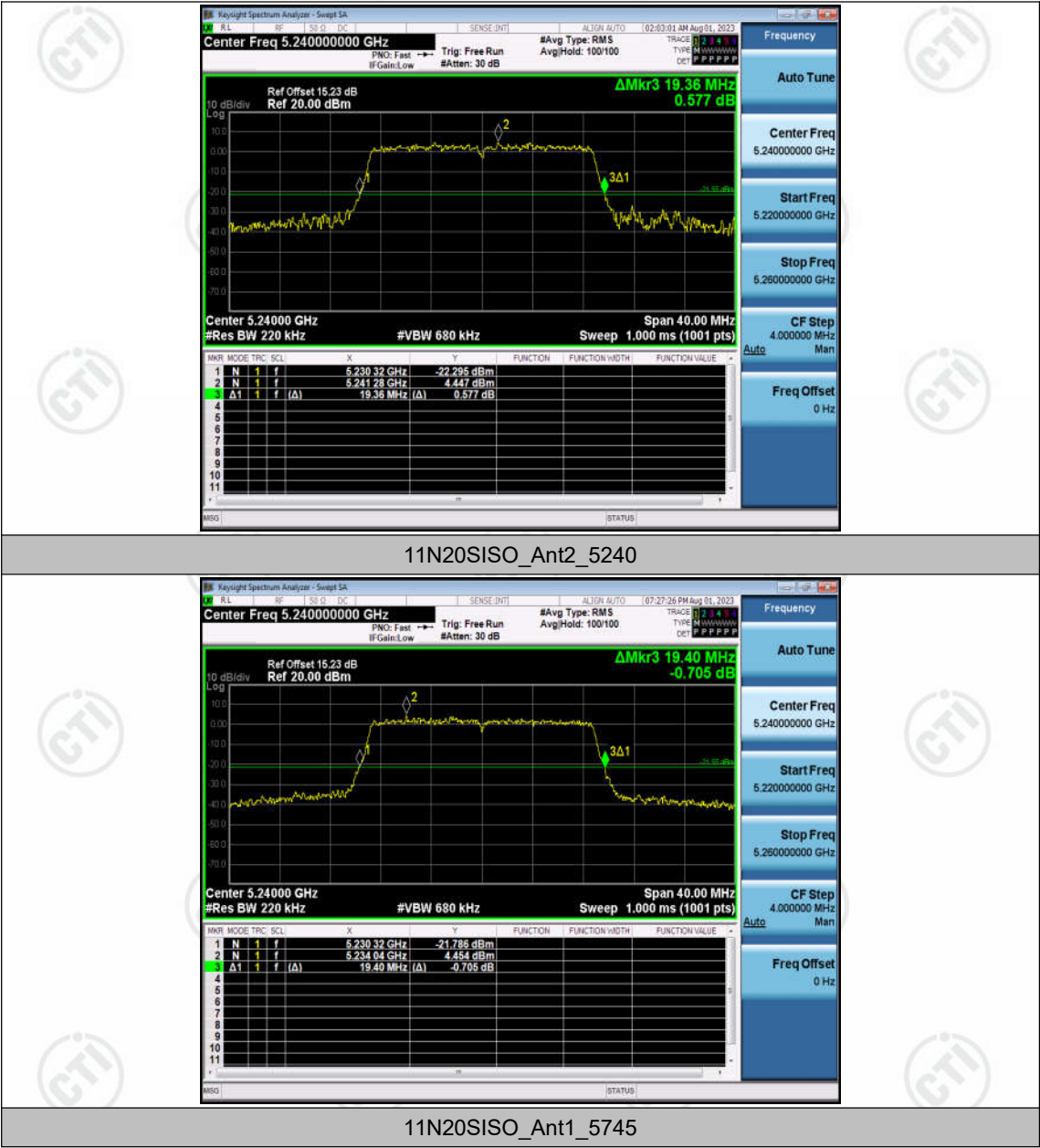


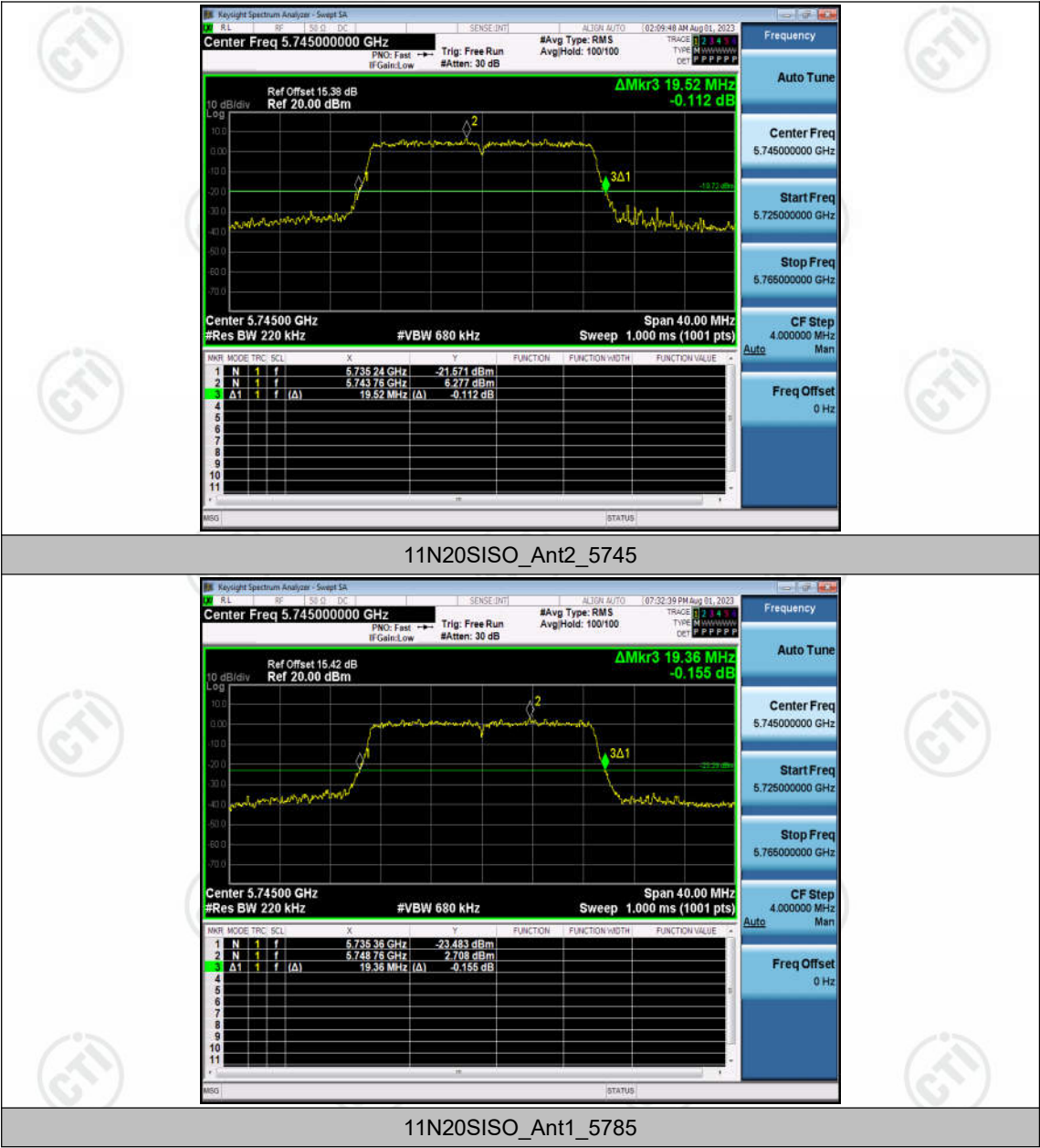


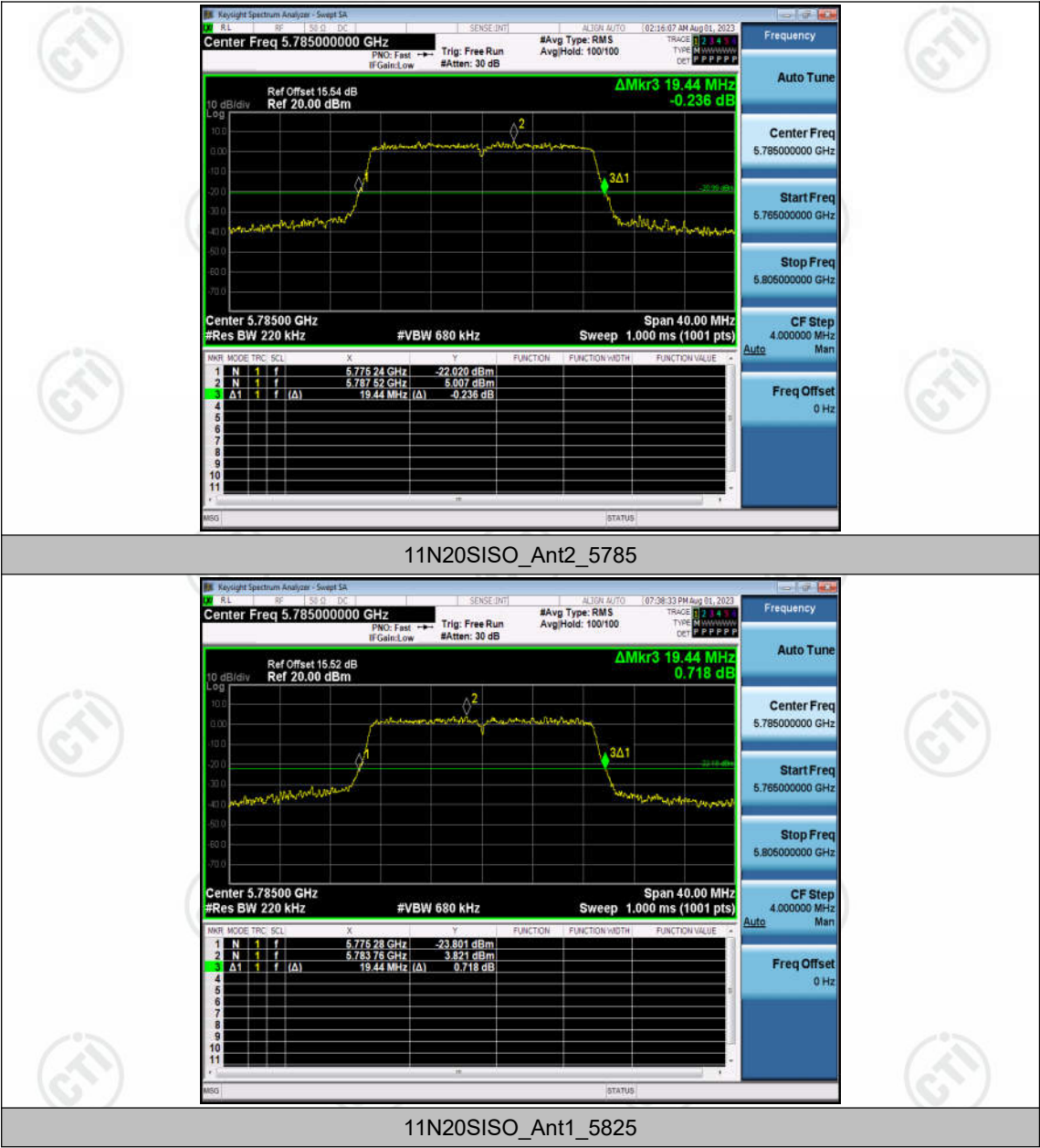


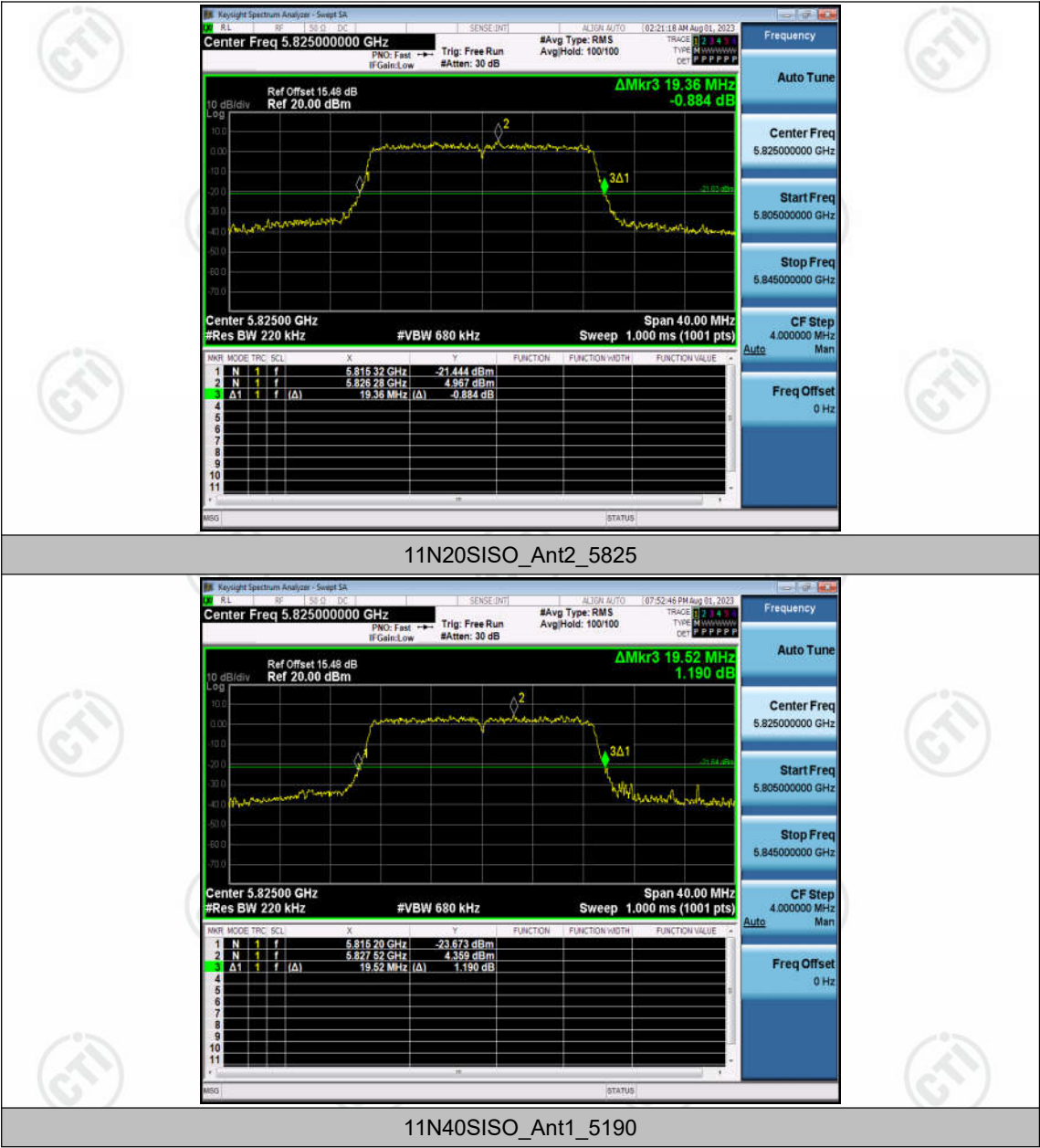


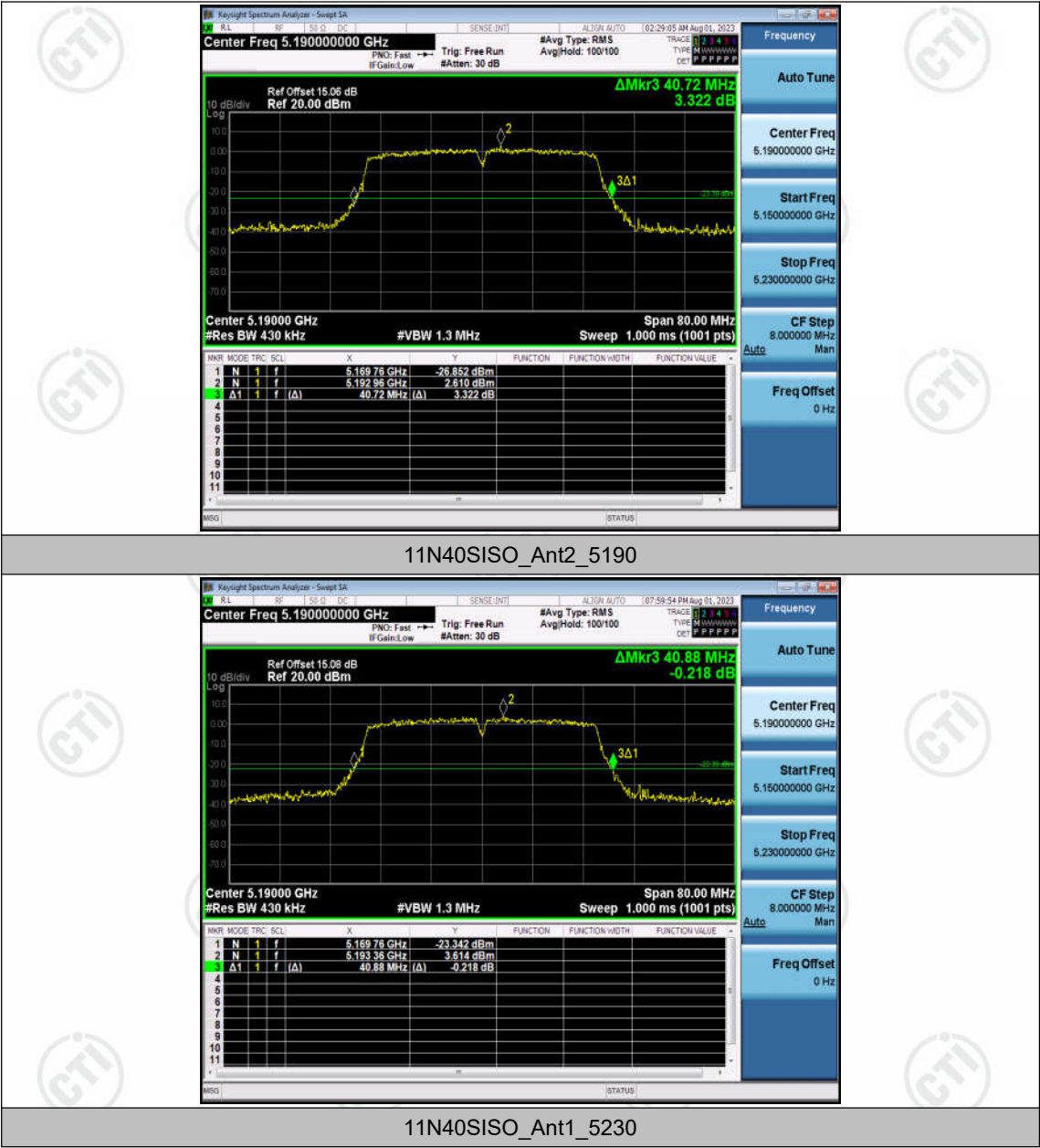


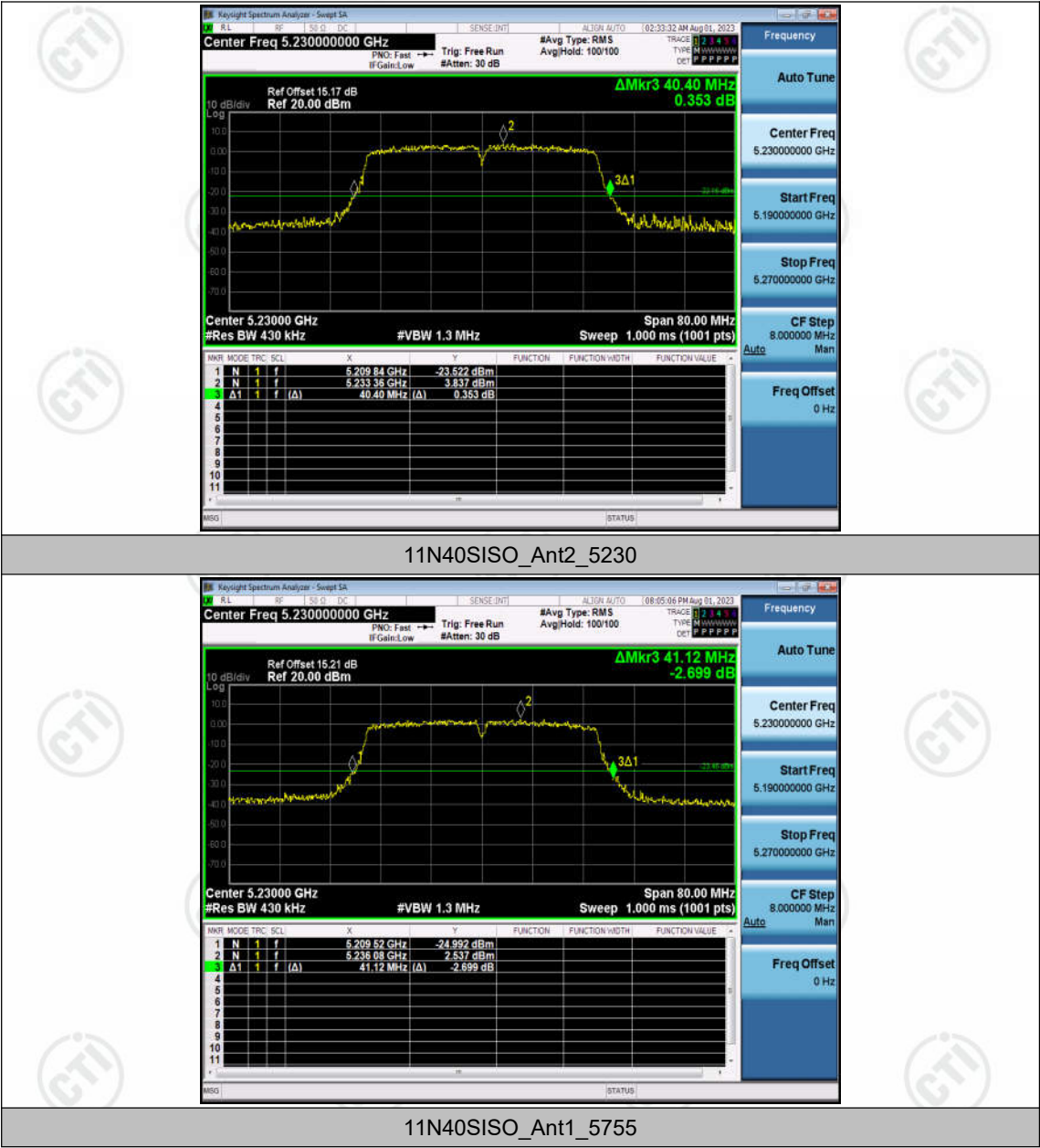


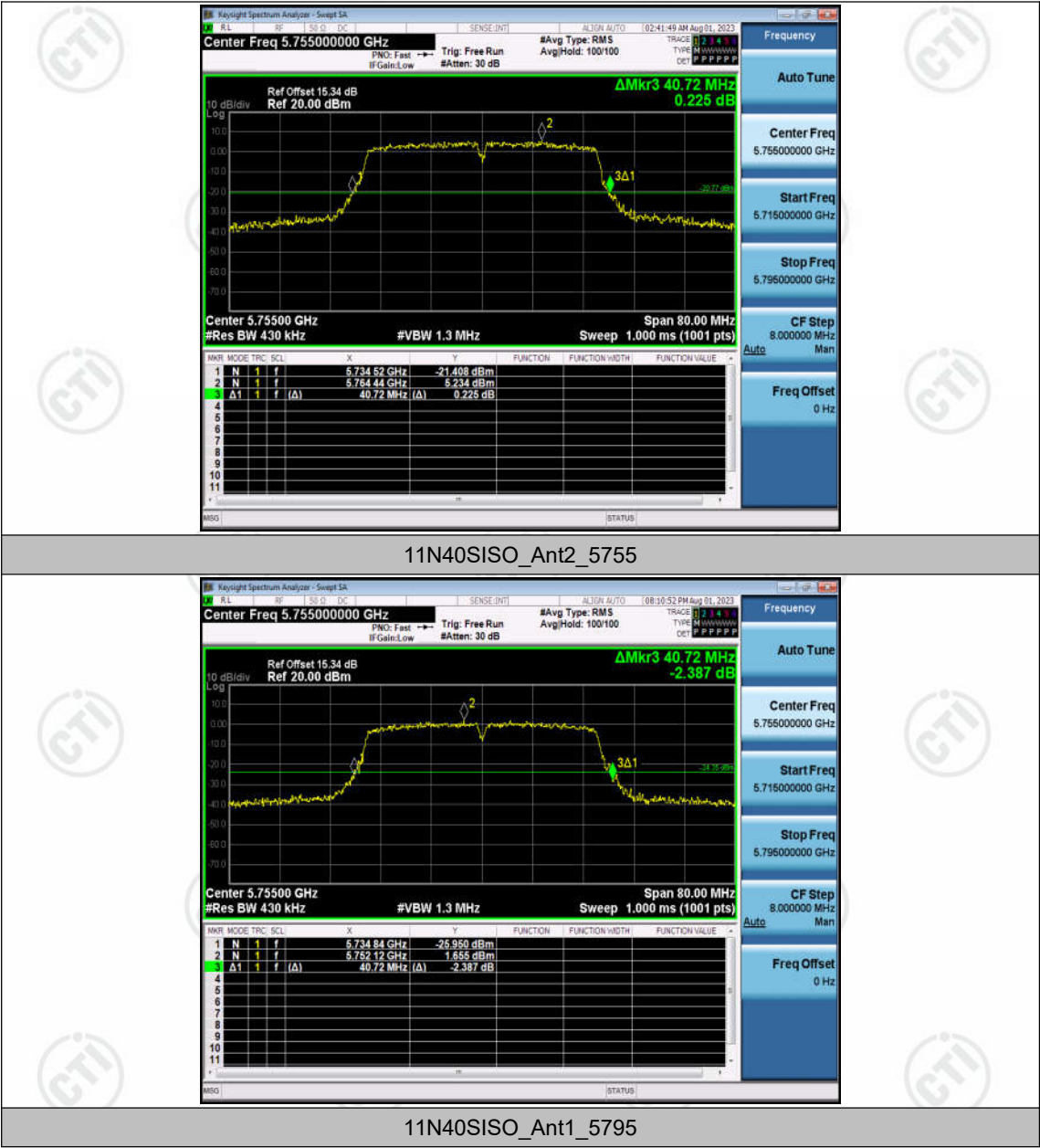


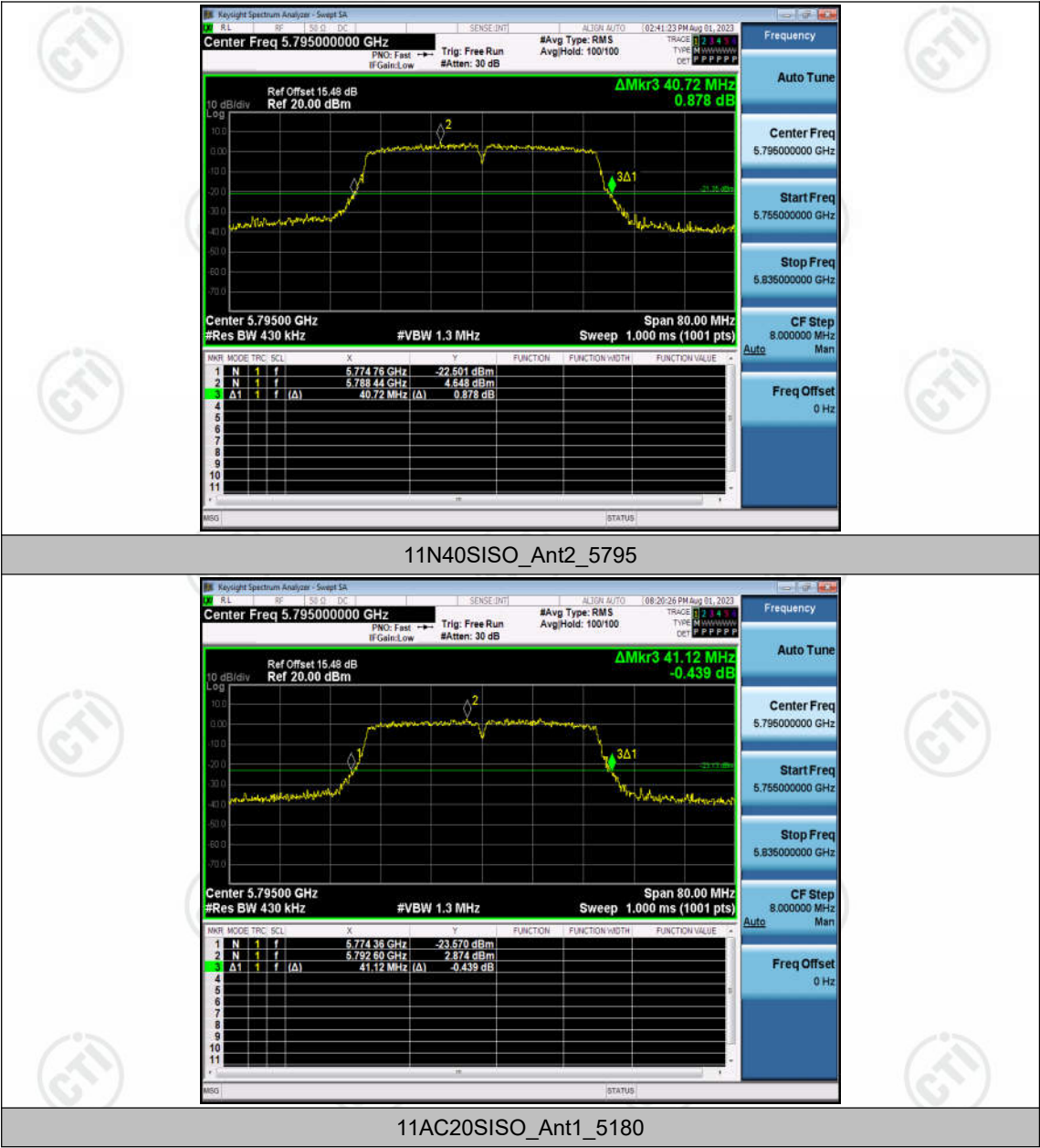


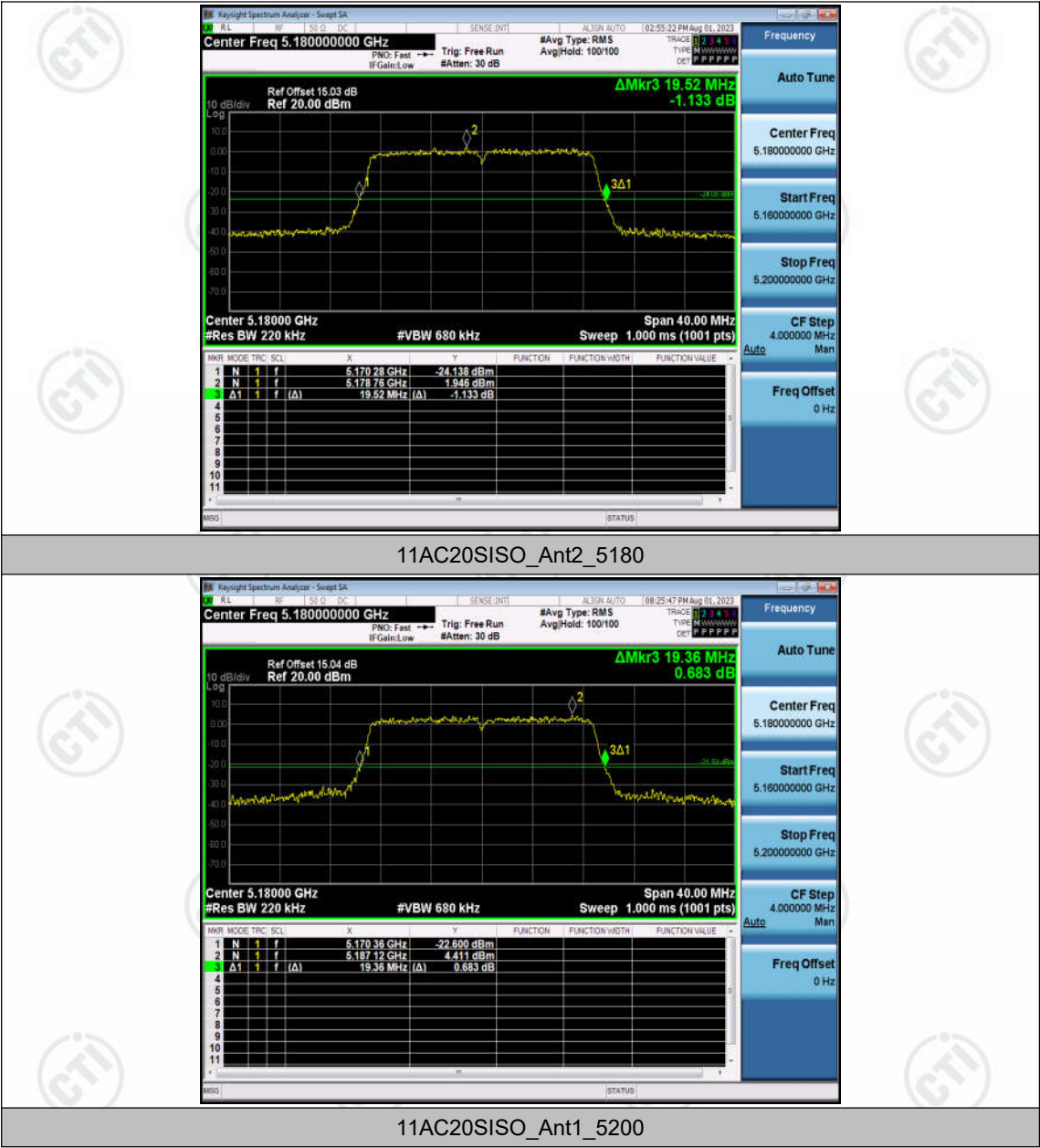


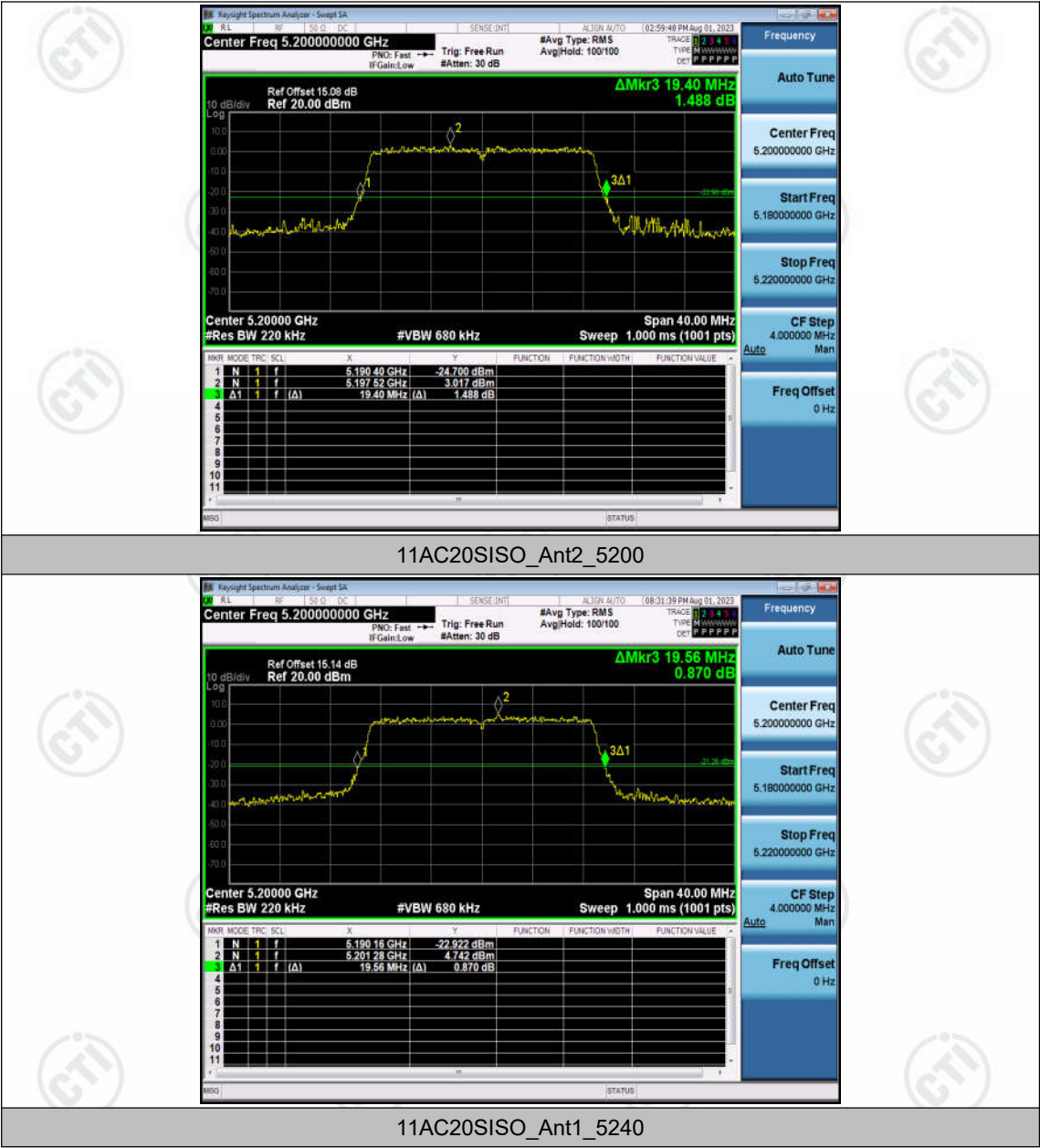


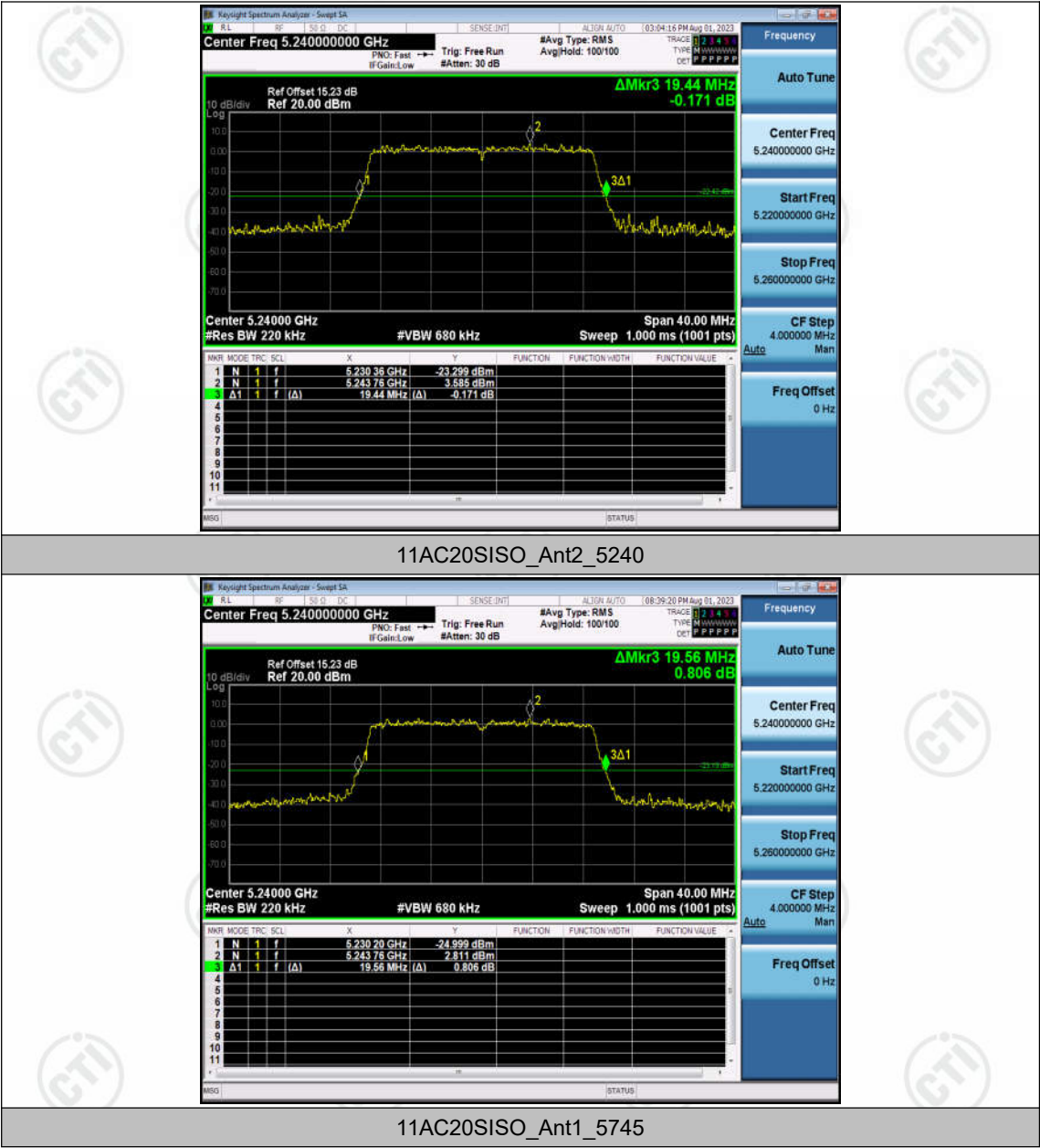


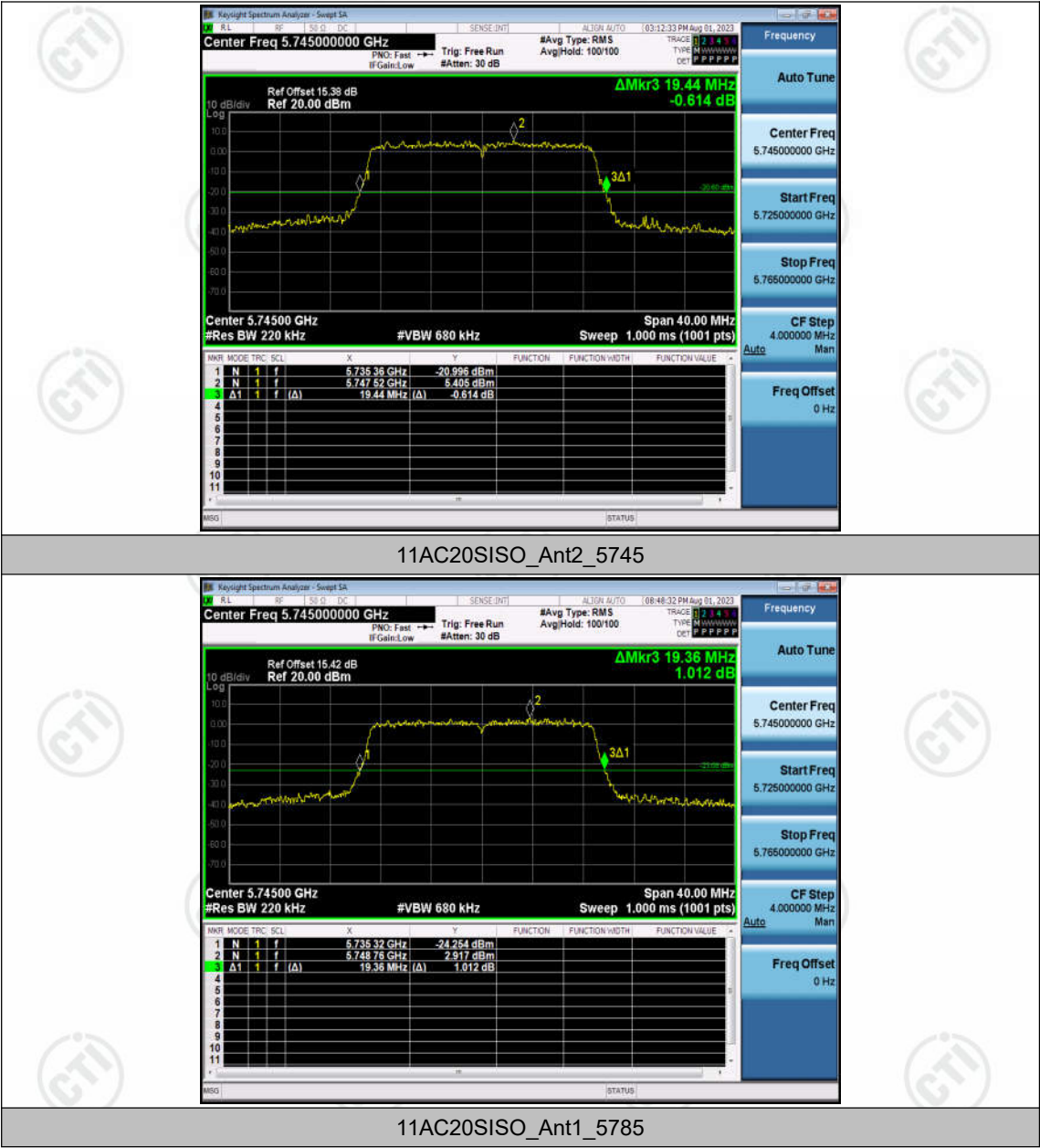


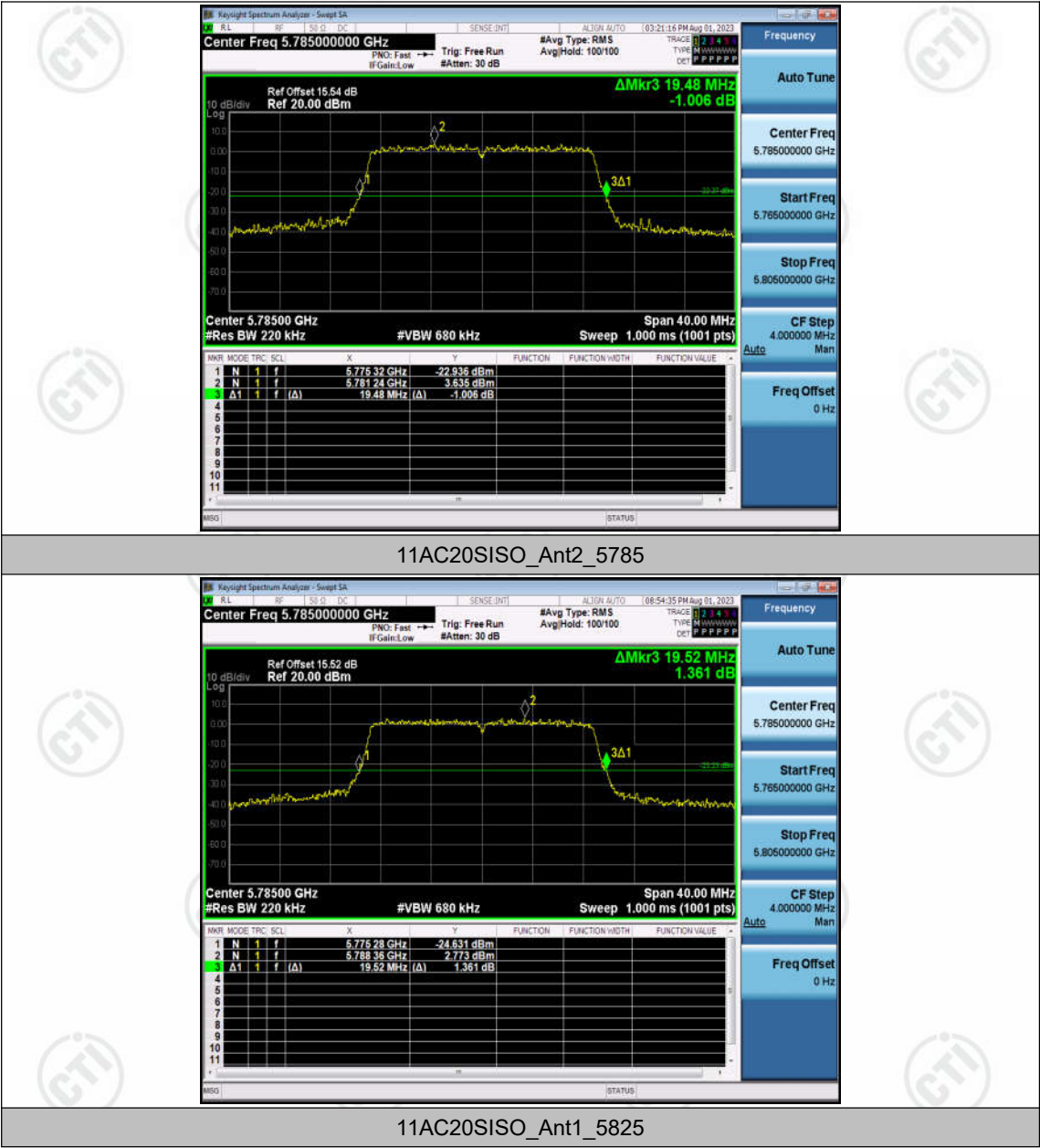


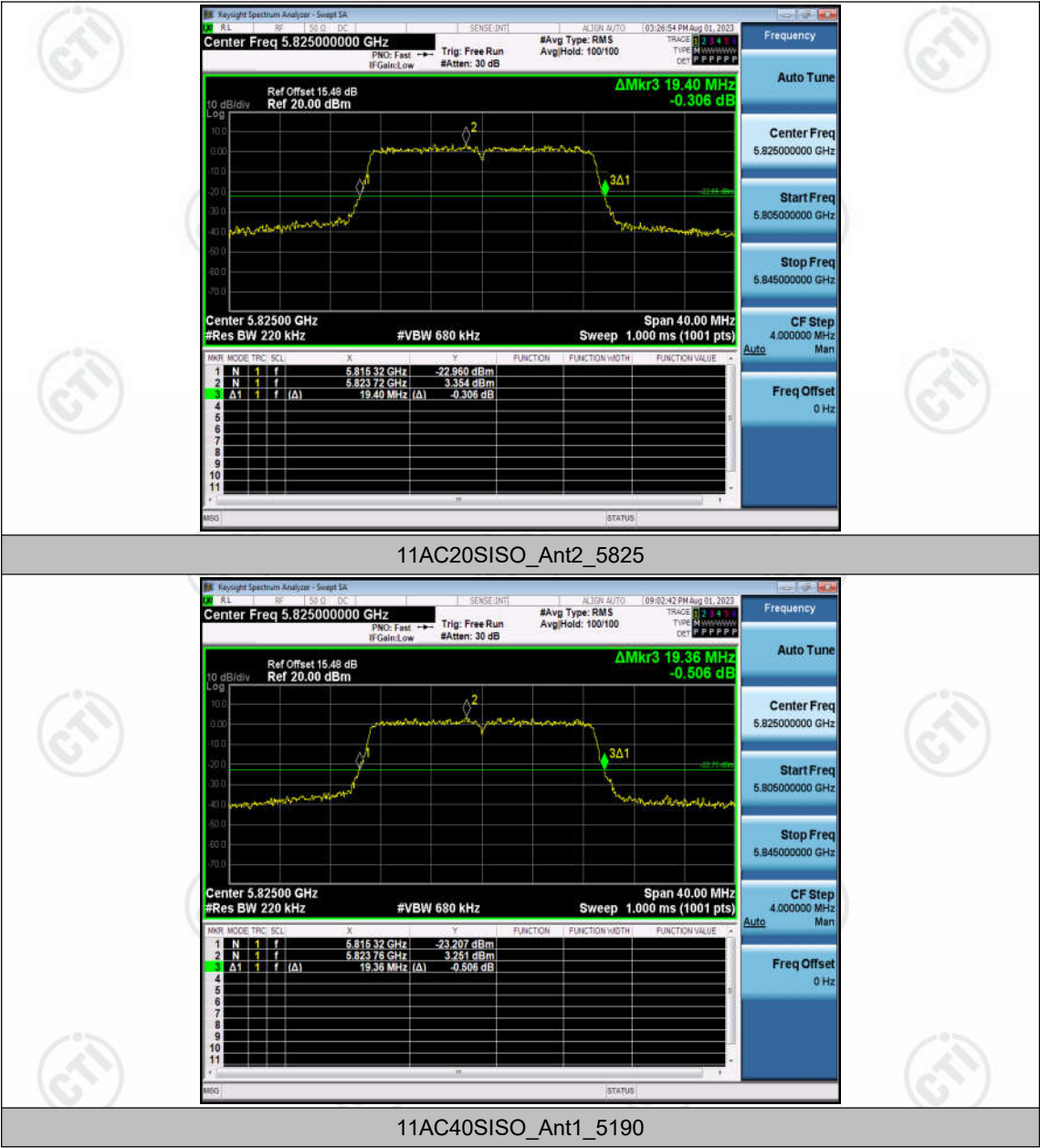


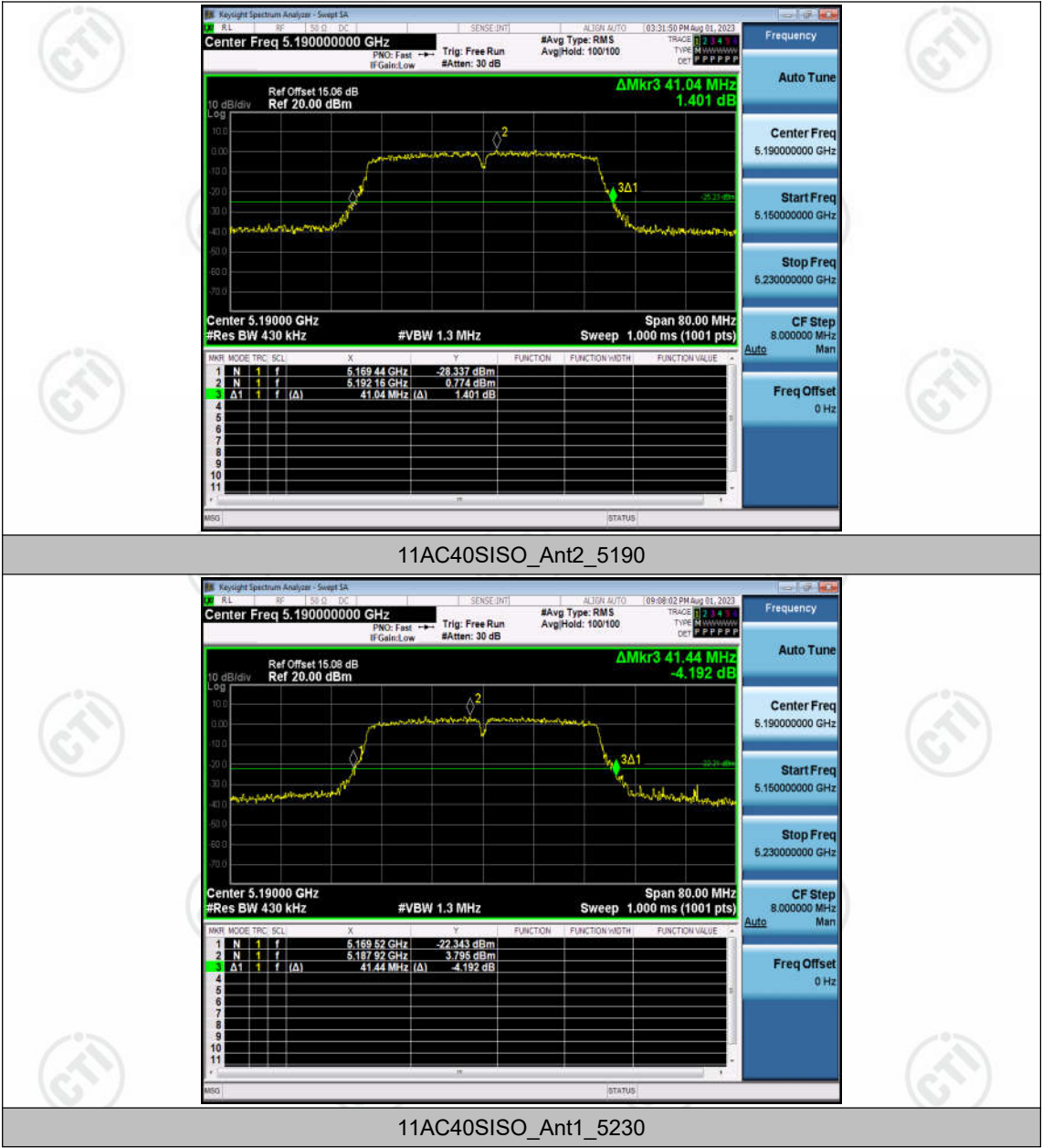


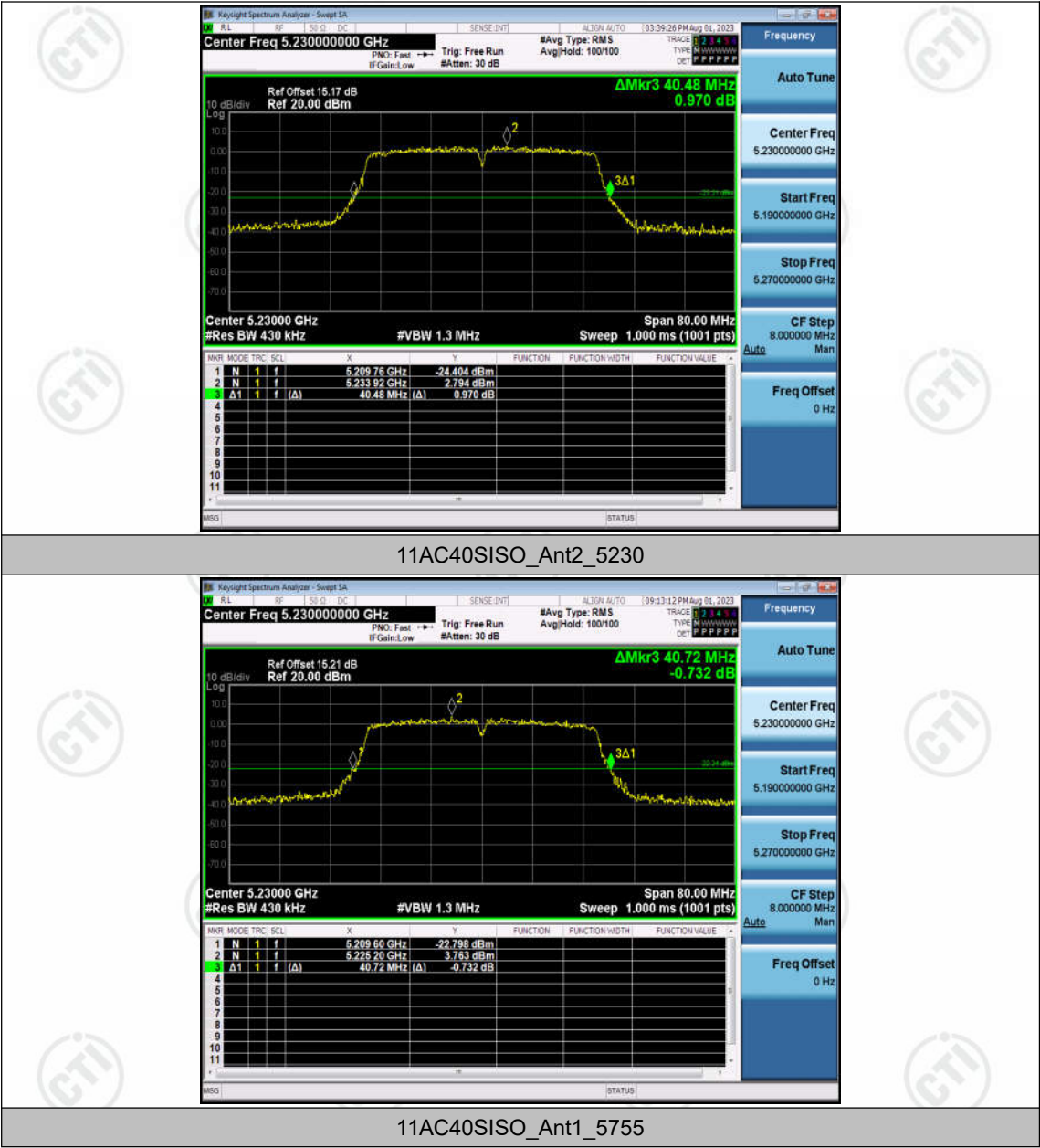


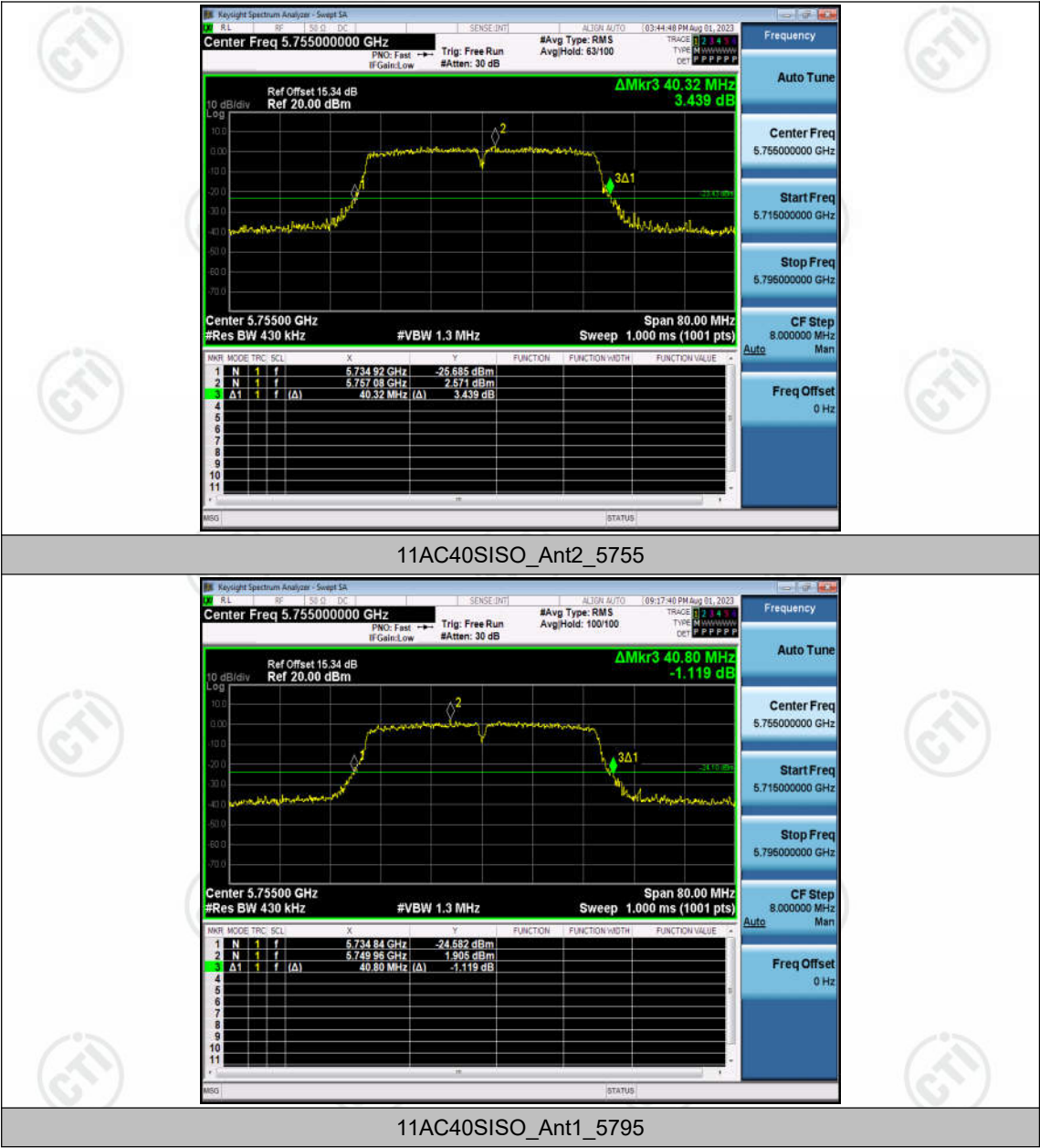


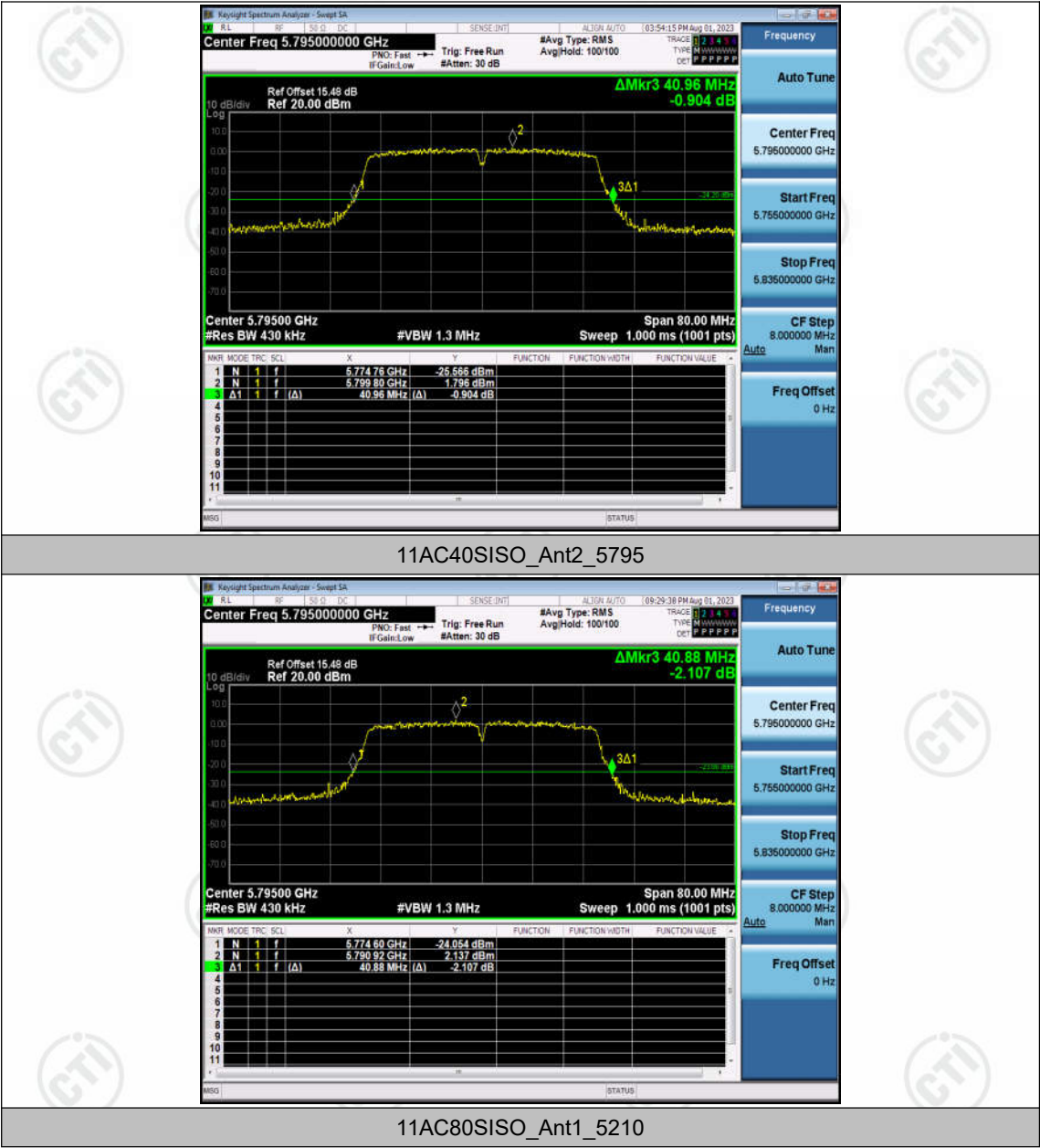


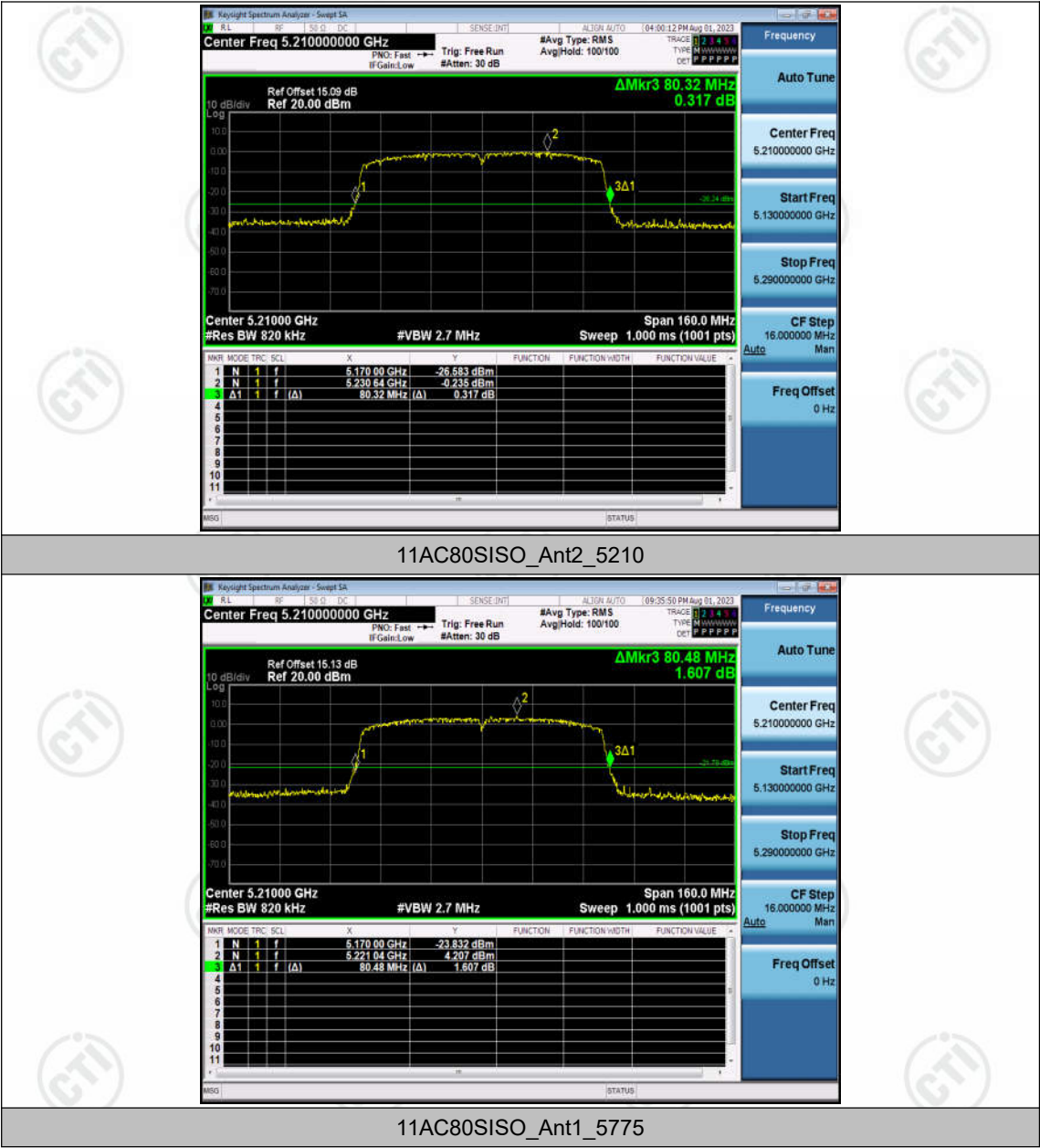


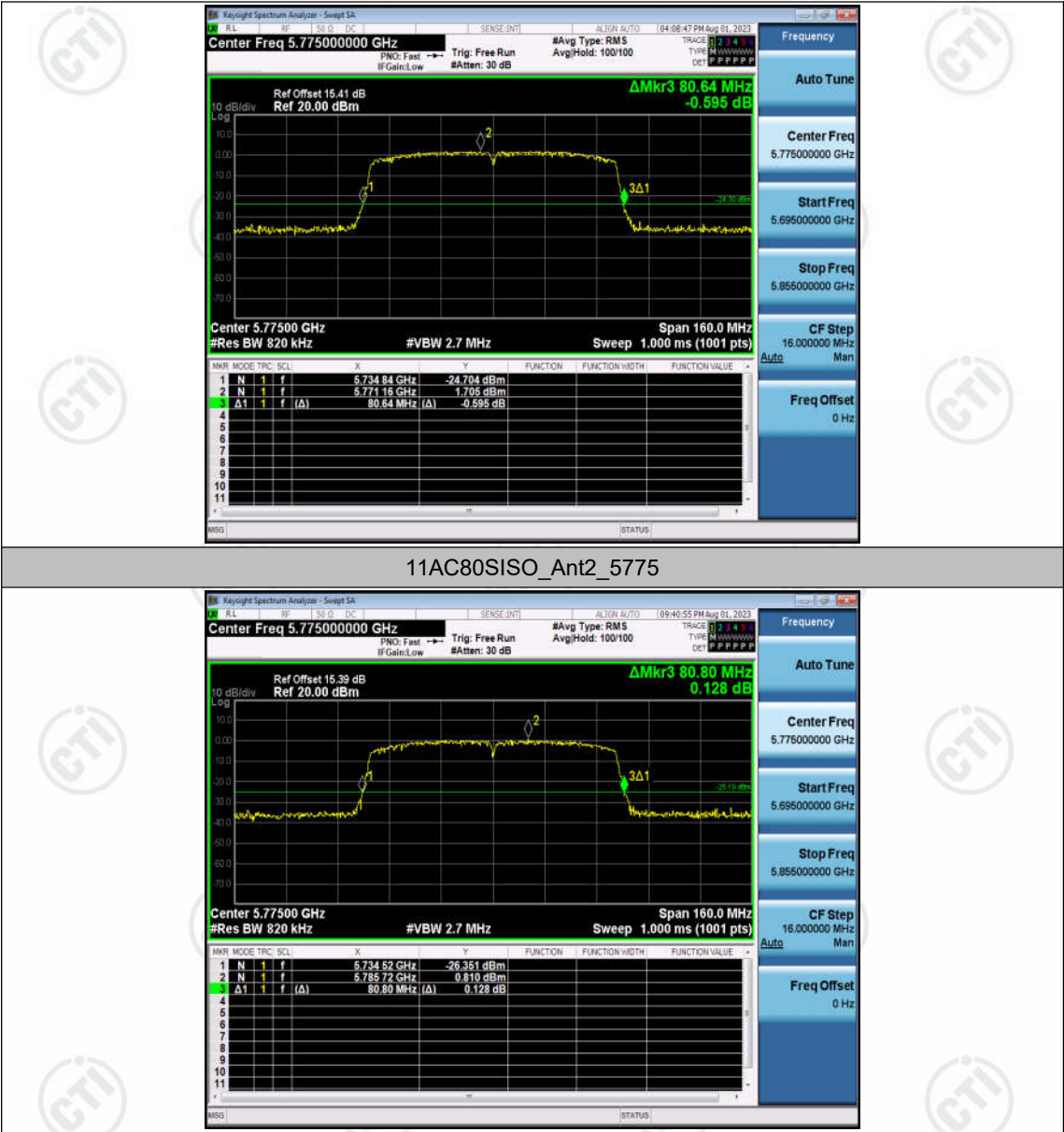












## Appendix B: Occupied channel bandwidth

### Test Result

| TestMode       | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------------|---------|----------------|-----------|-----------|-----------|------------|---------|
| 11A            | Ant1    | 5180           | 16.509    | 5171.7762 | 5188.2852 | ---        | ---     |
|                | Ant2    | 5180           | 16.525    | 5171.7638 | 5188.2888 | ---        | ---     |
|                | Ant1    | 5200           | 16.486    | 5191.7676 | 5208.2536 | ---        | ---     |
|                | Ant2    | 5200           | 16.459    | 5191.7926 | 5208.2516 | ---        | ---     |
|                | Ant1    | 5240           | 16.516    | 5231.7478 | 5248.2638 | ---        | ---     |
|                | Ant2    | 5240           | 16.495    | 5231.7429 | 5248.2379 | ---        | ---     |
|                | Ant1    | 5745           | 16.514    | 5736.7438 | 5753.2578 | ---        | ---     |
|                | Ant2    | 5745           | 17.653    | 5736.1978 | 5753.8508 | ---        | ---     |
|                | Ant1    | 5785           | 16.533    | 5776.7388 | 5793.2718 | ---        | ---     |
|                | Ant2    | 5785           | 16.521    | 5776.7421 | 5793.2631 | ---        | ---     |
|                | Ant1    | 5825           | 16.484    | 5816.7434 | 5833.2274 | ---        | ---     |
|                | Ant2    | 5825           | 16.477    | 5816.7468 | 5833.2238 | ---        | ---     |
| 11N20SI<br>SO  | Ant1    | 5180           | 17.660    | 5171.1929 | 5188.8529 | ---        | ---     |
|                | Ant2    | 5180           | 17.644    | 5171.2006 | 5188.8446 | ---        | ---     |
|                | Ant1    | 5200           | 17.638    | 5191.1986 | 5208.8366 | ---        | ---     |
|                | Ant2    | 5200           | 17.616    | 5191.2144 | 5208.8304 | ---        | ---     |
|                | Ant1    | 5240           | 17.637    | 5231.1842 | 5248.8212 | ---        | ---     |
|                | Ant2    | 5240           | 17.649    | 5231.1841 | 5248.8331 | ---        | ---     |
|                | Ant1    | 5745           | 17.663    | 5736.1785 | 5753.8415 | ---        | ---     |
|                | Ant2    | 5745           | 17.675    | 5736.1820 | 5753.8570 | ---        | ---     |
|                | Ant1    | 5785           | 17.644    | 5776.2025 | 5793.8465 | ---        | ---     |
|                | Ant2    | 5785           | 17.648    | 5776.1811 | 5793.8291 | ---        | ---     |
|                | Ant1    | 5825           | 17.663    | 5816.1687 | 5833.8317 | ---        | ---     |
|                | Ant2    | 5825           | 17.666    | 5816.1827 | 5833.8487 | ---        | ---     |
| 11N40SI<br>SO  | Ant1    | 5190           | 36.108    | 5172.0529 | 5208.1609 | ---        | ---     |
|                | Ant2    | 5190           | 36.167    | 5171.9447 | 5208.1117 | ---        | ---     |
|                | Ant1    | 5230           | 36.102    | 5211.9945 | 5248.0965 | ---        | ---     |
|                | Ant2    | 5230           | 36.123    | 5211.9377 | 5248.0607 | ---        | ---     |
|                | Ant1    | 5755           | 36.216    | 5736.9258 | 5773.1418 | ---        | ---     |
|                | Ant2    | 5755           | 36.132    | 5736.9820 | 5773.1140 | ---        | ---     |
|                | Ant1    | 5795           | 36.169    | 5776.9033 | 5813.0723 | ---        | ---     |
|                | Ant2    | 5795           | 36.116    | 5776.9664 | 5813.0824 | ---        | ---     |
| 11AC20S<br>ISO | Ant1    | 5180           | 17.621    | 5171.2248 | 5188.8458 | ---        | ---     |
|                | Ant2    | 5180           | 17.660    | 5171.1838 | 5188.8438 | ---        | ---     |
|                | Ant1    | 5200           | 17.659    | 5191.1820 | 5208.8410 | ---        | ---     |

|                |      |      |        |           |           |     |     |
|----------------|------|------|--------|-----------|-----------|-----|-----|
|                | Ant2 | 5200 | 17.658 | 5191.1839 | 5208.8419 | --- | --- |
|                | Ant1 | 5240 | 17.650 | 5231.2023 | 5248.8523 | --- | --- |
|                | Ant2 | 5240 | 17.671 | 5231.1609 | 5248.8319 | --- | --- |
|                | Ant1 | 5745 | 17.638 | 5736.1828 | 5753.8208 | --- | --- |
|                | Ant2 | 5745 | 17.662 | 5736.1902 | 5753.8522 | --- | --- |
|                | Ant1 | 5785 | 17.668 | 5776.1683 | 5793.8363 | --- | --- |
|                | Ant2 | 5785 | 17.661 | 5776.1615 | 5793.8225 | --- | --- |
|                | Ant1 | 5825 | 17.669 | 5816.1519 | 5833.8209 | --- | --- |
|                | Ant2 | 5825 | 17.655 | 5816.1829 | 5833.8379 | --- | --- |
| 11AC40S<br>ISO | Ant1 | 5190 | 36.224 | 5171.9489 | 5208.1729 | --- | --- |
|                | Ant2 | 5190 | 36.102 | 5172.0014 | 5208.1034 | --- | --- |
|                | Ant1 | 5230 | 36.105 | 5211.9861 | 5248.0911 | --- | --- |
|                | Ant2 | 5230 | 36.104 | 5211.9085 | 5248.0125 | --- | --- |
|                | Ant1 | 5755 | 36.114 | 5736.9987 | 5773.1127 | --- | --- |
|                | Ant2 | 5755 | 36.105 | 5737.0287 | 5773.1337 | --- | --- |
|                | Ant1 | 5795 | 36.218 | 5776.8755 | 5813.0935 | --- | --- |
|                | Ant2 | 5795 | 36.182 | 5776.9487 | 5813.1307 | --- | --- |
| 11AC80S<br>ISO | Ant1 | 5210 | 74.680 | 5173.0436 | 5247.7236 | --- | --- |
|                | Ant2 | 5210 | 74.790 | 5172.7375 | 5247.5275 | --- | --- |
|                | Ant1 | 5775 | 74.712 | 5737.7674 | 5812.4794 | --- | --- |
|                | Ant2 | 5775 | 74.610 | 5737.8530 | 5812.4630 | --- | --- |

Test Graphs

