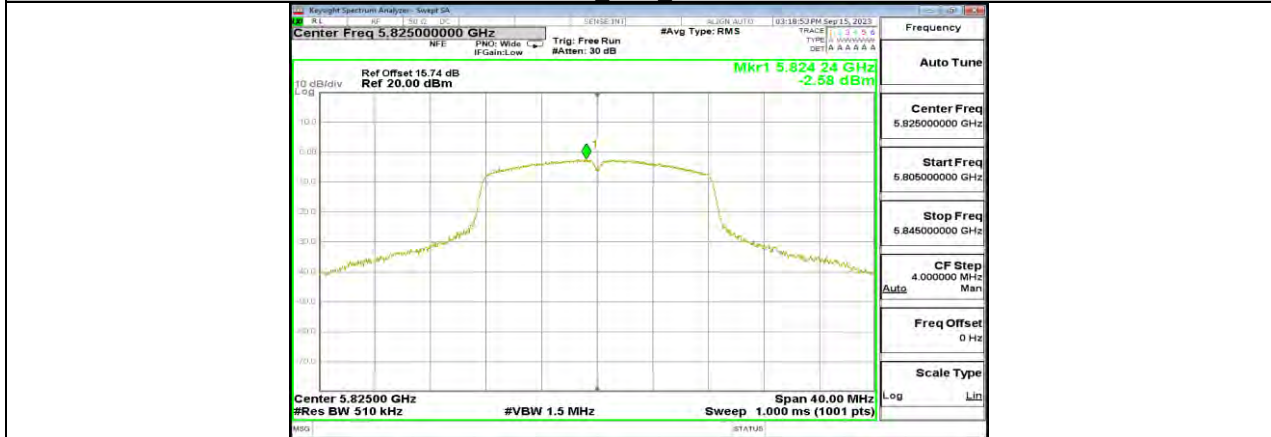
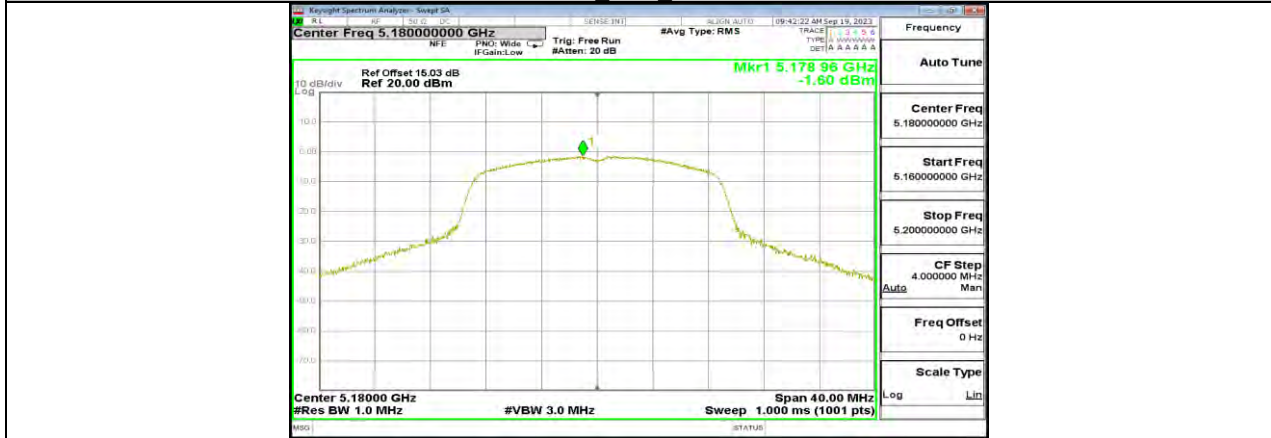


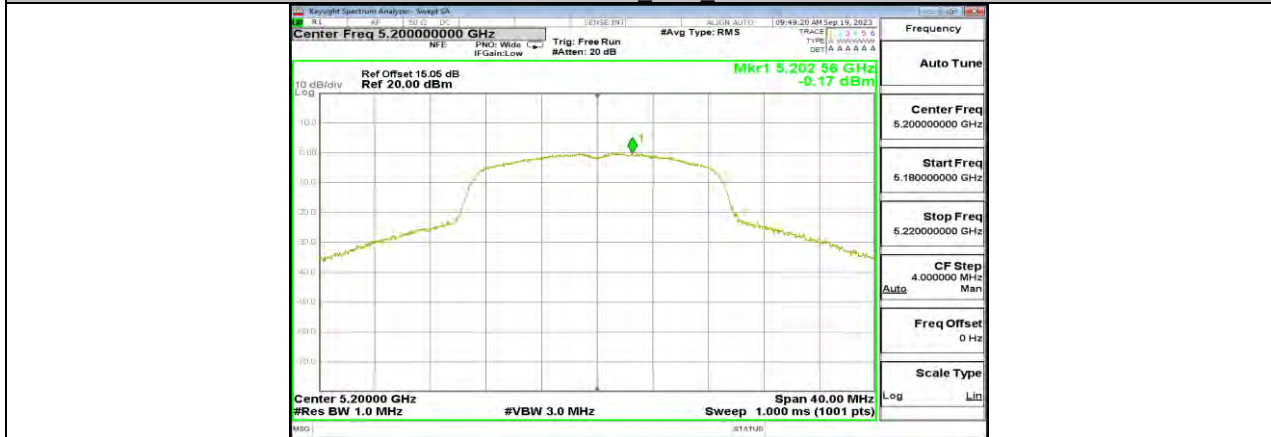
11A Ant2 5805

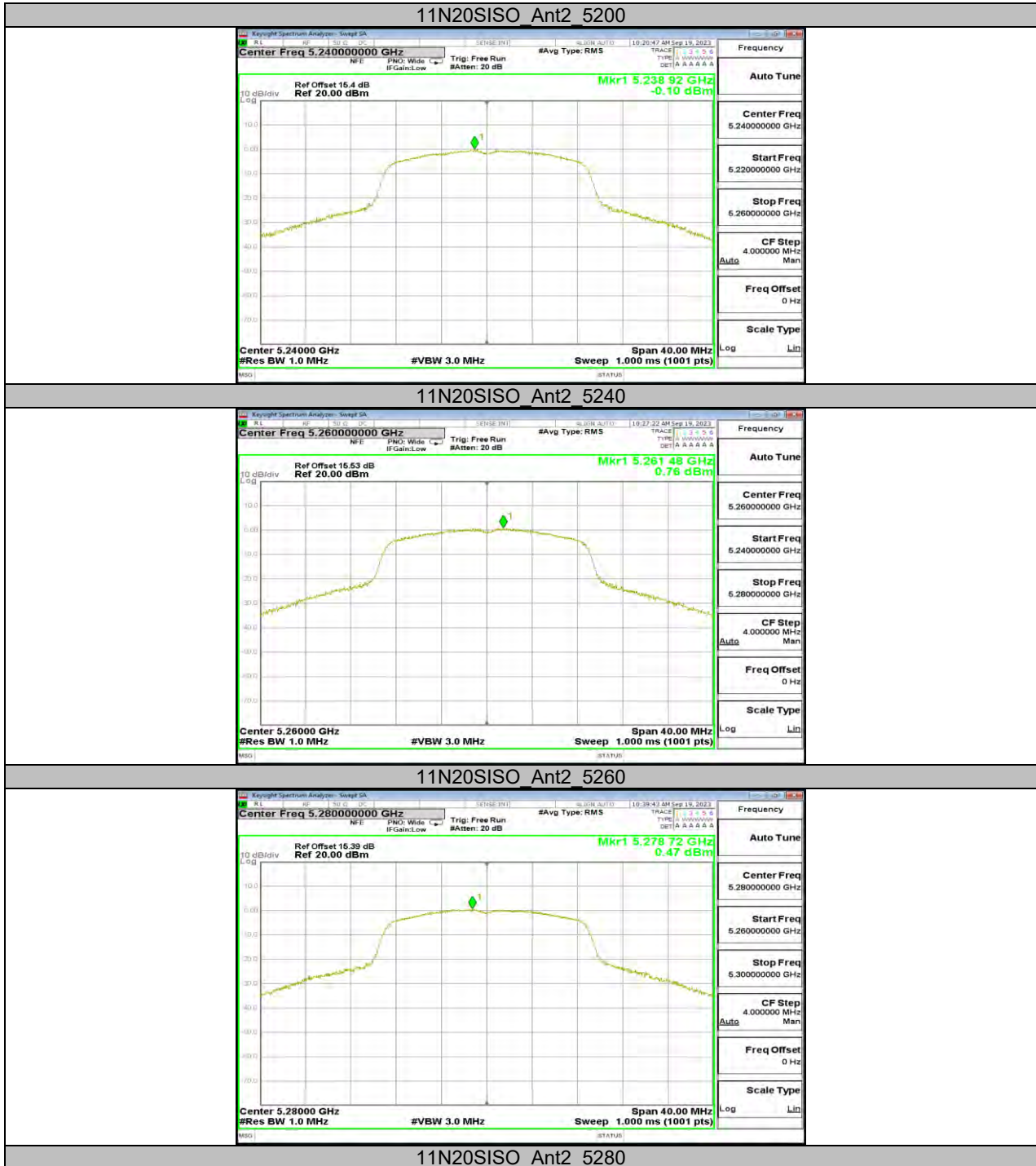


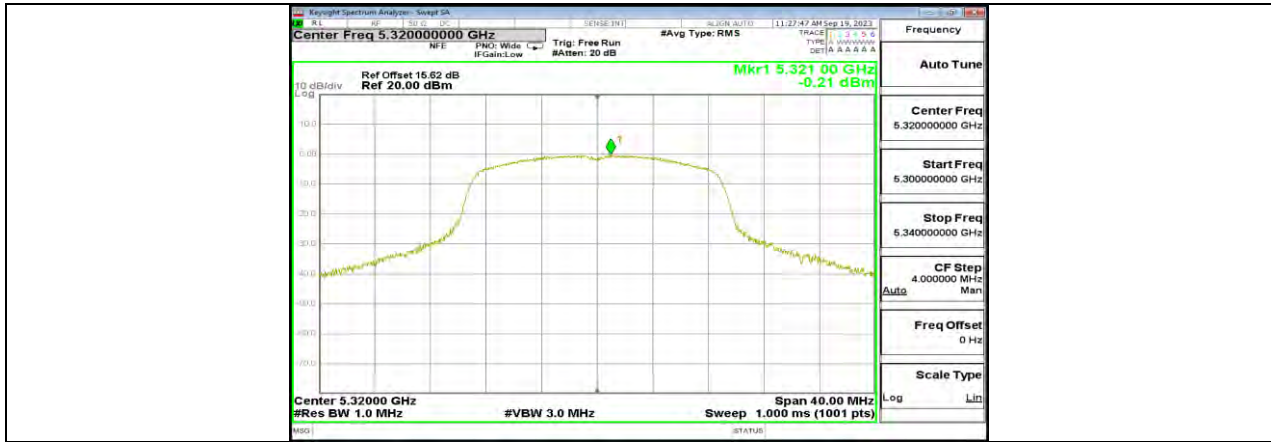
11A Ant2 5825



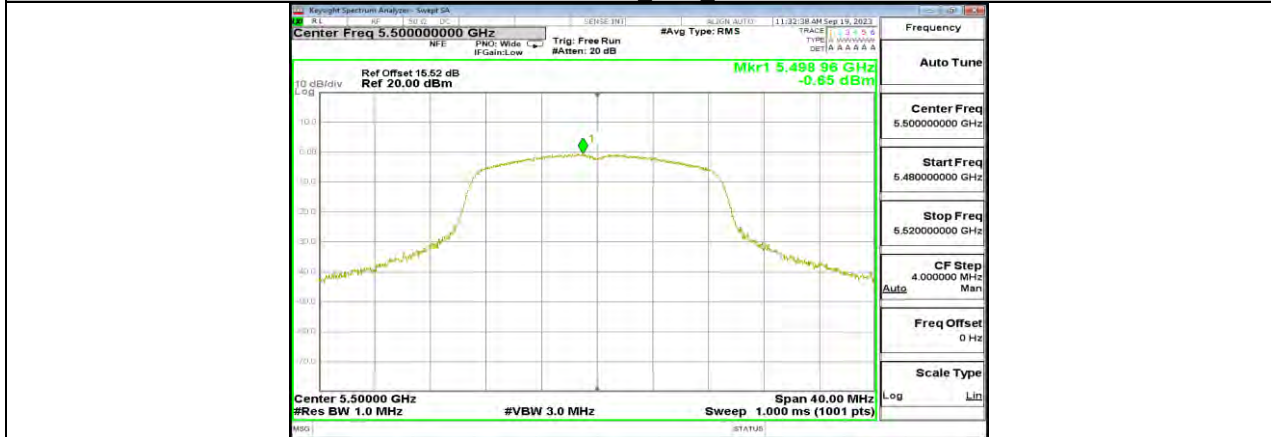
11N20SISO Ant2 5180







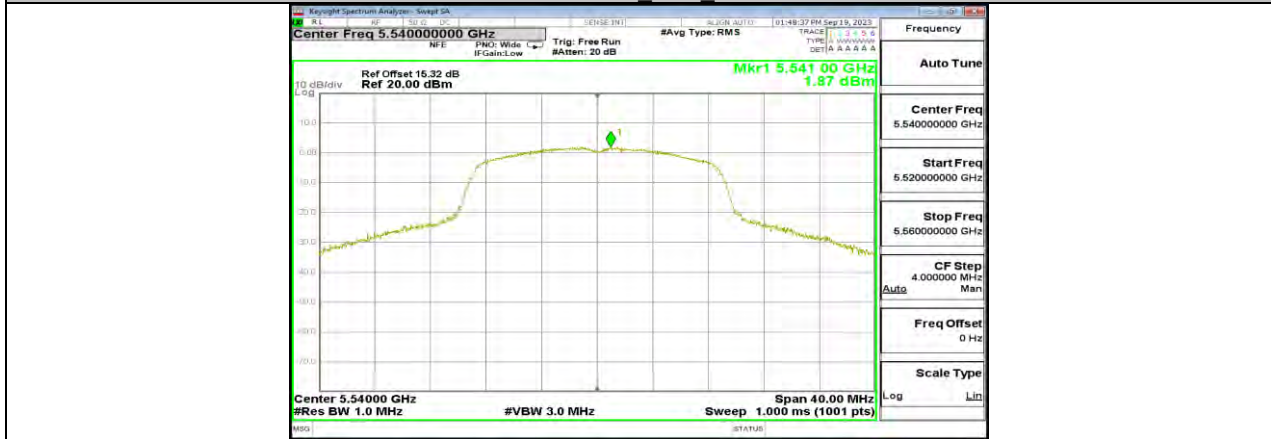
11N20SISO Ant2 5320



11N20SISO Ant2 5500

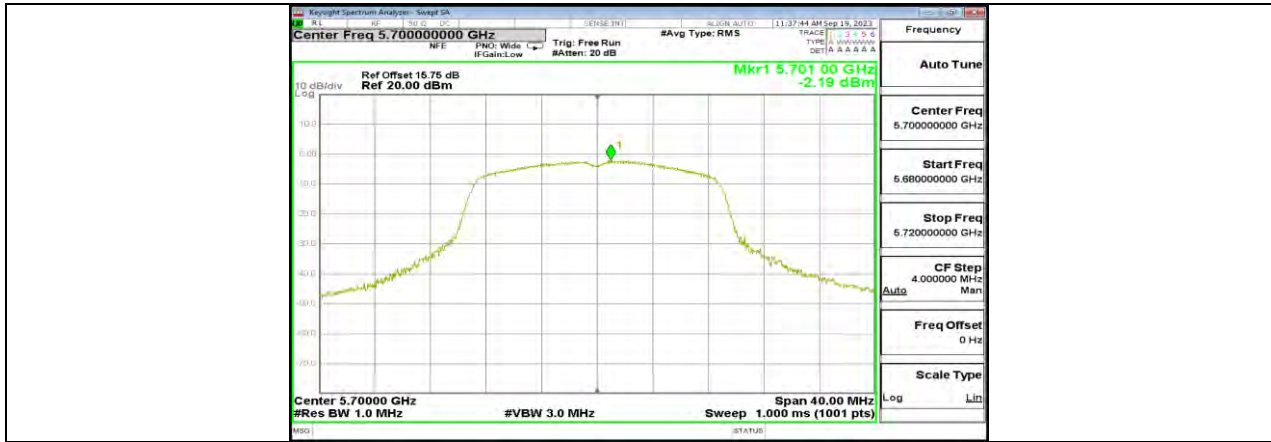


11N20SISO Ant2 5520





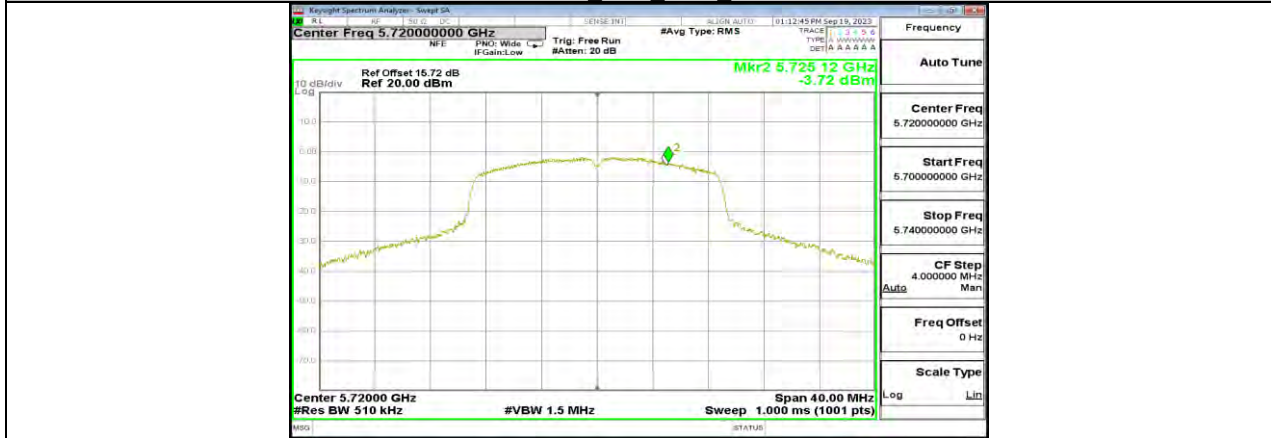
11N20SISO Ant2 5680



11N20SISO Ant2 5700

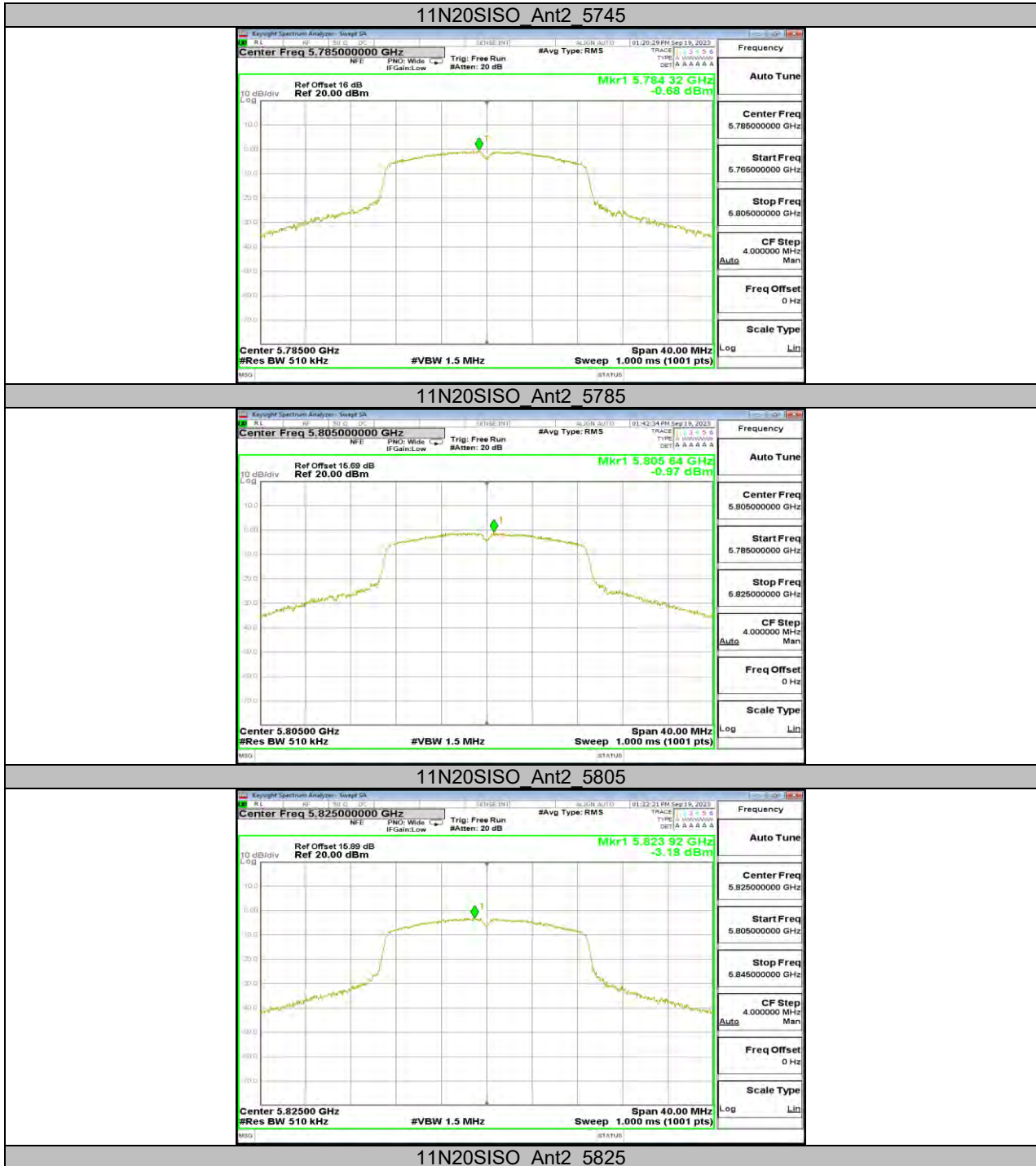


11N20SISO Ant2 5720 UNII-2C



11N20SISO Ant2 5720 UNII-3





10.6. APPENDIX F1: FREQUENCY STABILITY

10.6.1. Test Result

| Frequency Error vs. Voltage | | | | | | | | | |
|-----------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a: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 | 5200.0165 | 3.17 | 5200.0166 | 3.18 | 5200.0165 | 3.17 | 5200.0236 | 4.54 |
| TN | VN | 5200.0163 | 3.14 | 5200.0107 | 2.06 | 5200.0016 | 0.31 | 5200.0210 | 4.03 |
| TN | VH | 5199.9764 | -4.54 | 5199.9983 | -0.32 | 5200.0086 | 1.65 | 5200.0139 | 2.67 |

| Frequency Error vs. Temperature | | | | | | | | | |
|---------------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a: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) |
| 60 | VN | 5200.0063 | 1.22 | 5200.0160 | 3.08 | 5199.9823 | -3.40 | 5199.9885 | -2.21 |
| 50 | VN | 5200.0109 | 2.09 | 5200.0026 | 0.49 | 5200.0123 | 2.36 | 5200.0188 | 3.62 |
| 40 | VN | 5199.9972 | -0.54 | 5200.0222 | 4.26 | 5199.9785 | -4.14 | 5200.0247 | 4.75 |
| 30 | VN | 5199.9768 | -4.47 | 5200.0192 | 3.70 | 5199.9921 | -1.52 | 5200.0010 | 0.19 |
| 20 | VN | 5199.9969 | -0.60 | 5200.0204 | 3.91 | 5200.0169 | 3.25 | 5200.0232 | 4.47 |
| 10 | VN | 5200.0042 | 0.80 | 5199.9994 | -0.12 | 5199.9878 | -2.35 | 5199.9971 | -0.56 |
| 0 | VN | 5200.0157 | 3.01 | 5200.0097 | 1.86 | 5199.9906 | -1.82 | 5199.9873 | -2.45 |
| -10 | VN | 5199.9903 | -1.86 | 5200.0192 | 3.69 | 5200.0014 | 0.26 | 5199.9936 | -1.22 |
| -20 | VN | 5199.9911 | -1.72 | 5200.0205 | 3.95 | 5200.0042 | 0.81 | 5199.9932 | -1.30 |
| -30 | VN | 5199.9911 | -1.72 | 5199.9863 | -2.64 | 5199.9804 | -3.77 | 5200.0100 | 1.91 |

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

10.7. APPENDIX G1: DUTY CYCLE

10.7.1. 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) |
|-----------|----------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|-----------------------------|
| 11A | 1.36 | 1.51 | 0.9007 | 90.07 | 0.45 | 0.74 | 1 |
| 11N20SISO | 1.27 | 1.39 | 0.9137 | 91.37 | 0.39 | 0.79 | 1 |

Note:

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

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.

10.7.2. Test Graphs

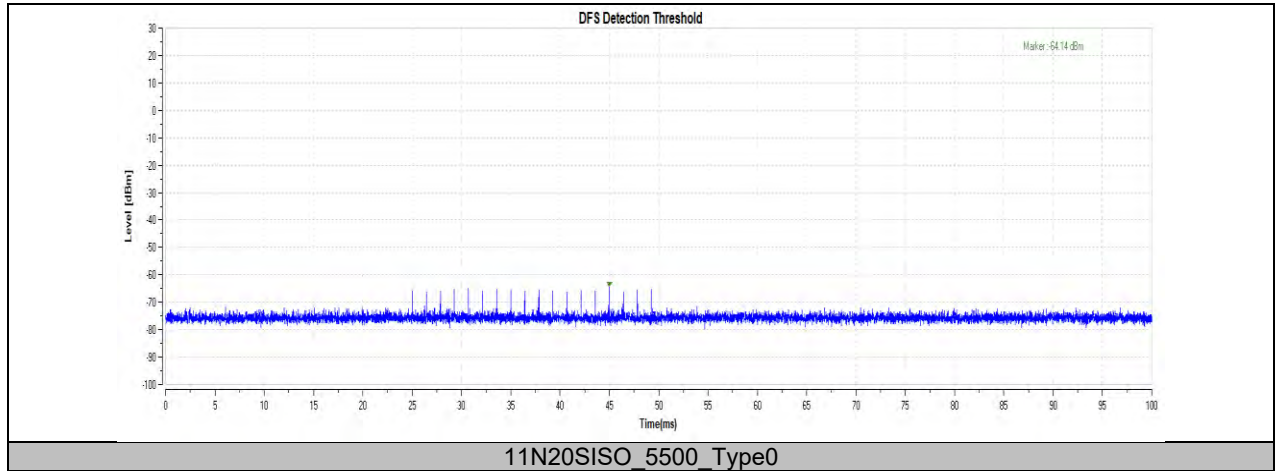


10.8. APPENDIX H1: DFS DETECTION THRESHOLDS

10.8.1. Test Result

| Test Mode | Channel | Radar Type | Result | Verdict |
|-----------|---------|------------|--------|---------|
| 11N20SISO | 5500 | Type0 | -64.14 | PASS |

10.8.2. Test Graphs



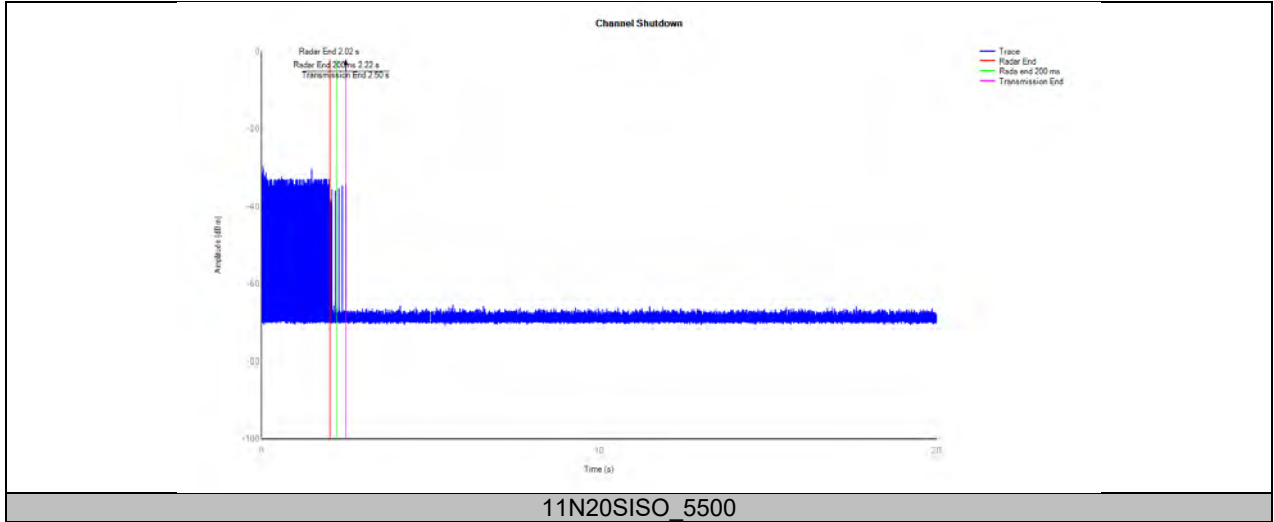
10.9. APPENDIX I1: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

10.9.1. Test Result

| Mode | Frequency (MHz) | Channel Move Time (s) | Limit Channel Move Time (s) | Close Transmission Time (s) | Limit Close Transmission Time (s) | Close Transmission Time after 200ms(s) | Limit Close Transmission Time after 200ms (s) | Verdict |
|------------|-----------------|-----------------------|-----------------------------|-----------------------------|-----------------------------------|--|---|---------|
| 11N20 SISO | 5530 | 0.472 | 10 | 0.017 | 0.26 | 0.003 | 0.06 | Pass |

Note: All modes and antennas have been tested, only the worst data recorded in the report.

10.9.2. Test Graphs



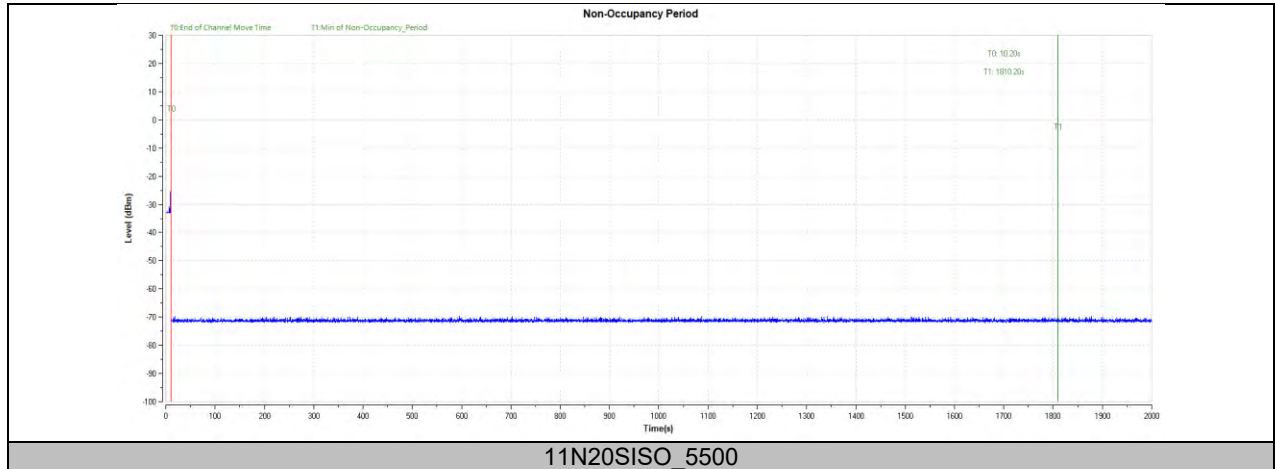
10.10. APPENDIX J1: NON-OCCUPANCY PERIOD

Test Result

| Test Mode | Channel | Result | Limit[s] | Verdict |
|-----------|---------|----------------|----------|---------|
| 11N20SISO | 5500 | see test graph | ≥1800 | PASS |

Note: All modes and antennas have been tested, only the worst data recorded in the report.

10.10.1. Test Graphs



11. TEST DATA FOR INTERNAL ANTENNA

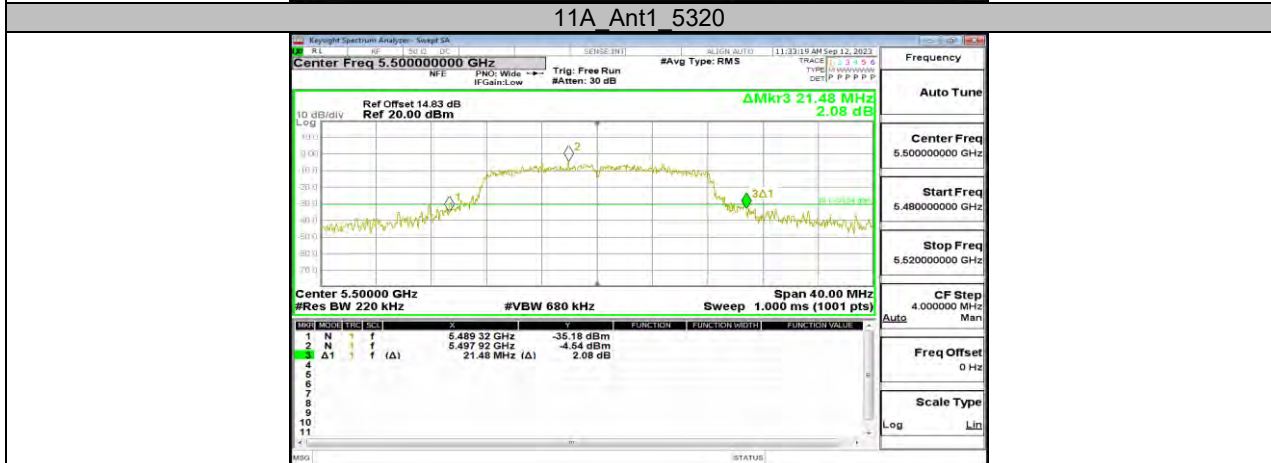
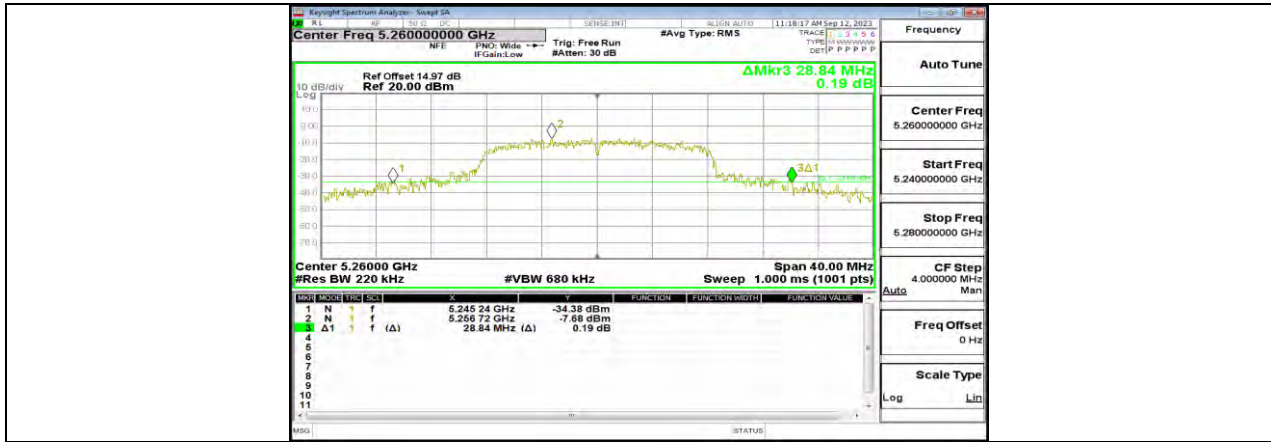
11.1. APPENDIX A2: EMISSION BANDWIDTH

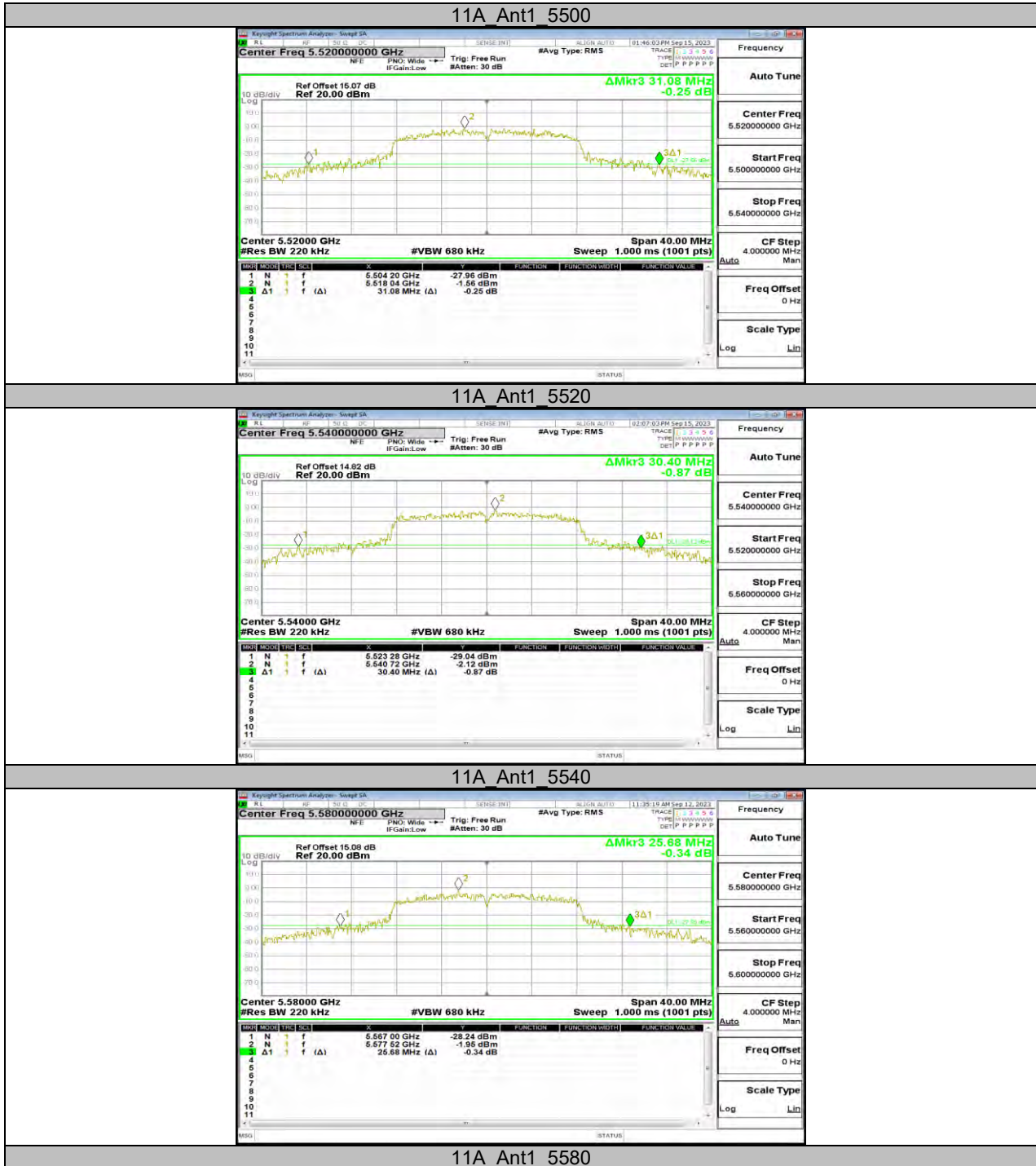
11.1.1. Test Result

| Test Mode | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz] | FH[MHz] | Verdict |
|-----------|---------|----------------|----------------|----------|----------|---------|
| 11A | Ant1 | 5180 | 25.040 | 5165.680 | 5190.720 | PASS |
| | | 5200 | 30.960 | 5183.720 | 5214.680 | PASS |
| | | 5240 | 29.000 | 5225.480 | 5254.480 | PASS |
| | | 5260 | 28.840 | 5245.240 | 5274.080 | PASS |
| | | 5280 | 29.280 | 5265.200 | 5294.480 | PASS |
| | | 5320 | 23.040 | 5308.600 | 5331.640 | PASS |
| | | 5500 | 21.480 | 5489.320 | 5510.800 | PASS |
| | | 5520 | 31.080 | 5504.200 | 5535.280 | PASS |
| | | 5540 | 30.400 | 5523.280 | 5553.680 | PASS |
| | | 5580 | 25.680 | 5567.000 | 5592.680 | PASS |
| | | 5660 | 28.000 | 5645.960 | 5673.960 | PASS |
| | | 5680 | 28.240 | 5665.320 | 5693.560 | PASS |
| | | 5700 | 22.800 | 5689.200 | 5712.000 | PASS |
| | | 5720 | 27.600 | 5706.880 | 5734.480 | PASS |
| | | 5720 UNII-2C | 18.12 | 5706.880 | 5725 | PASS |
| | | 5720 UNII-3 | 9.48 | 5725 | 5734.480 | PASS |
| | | 5745 | 30.040 | 5728.280 | 5758.320 | PASS |
| | | 5785 | 25.800 | 5770.520 | 5796.320 | PASS |
| 5805 | 29.400 | 5789.160 | 5818.560 | PASS | | |
| 5825 | 20.640 | 5814.240 | 5834.880 | PASS | | |
| 11N20SISO | Ant1 | 5180 | 22.040 | 5169.760 | 5191.800 | PASS |
| | | 5200 | 27.680 | 5186.920 | 5214.600 | PASS |
| | | 5220 | 25.080 | 5206.840 | 5231.920 | PASS |
| | | 5240 | 27.880 | 5226.960 | 5254.840 | PASS |
| | | 5260 | 27.960 | 5245.920 | 5273.880 | PASS |
| | | 5280 | 26.680 | 5266.000 | 5292.680 | PASS |
| | | 5320 | 21.400 | 5309.680 | 5331.080 | PASS |
| | | 5500 | 21.200 | 5489.920 | 5511.120 | PASS |
| | | 5520 | 29.720 | 5506.200 | 5535.920 | PASS |
| | | 5580 | 26.480 | 5566.920 | 5593.400 | PASS |
| | | 5640 | 27.560 | 5627.280 | 5654.840 | PASS |
| | | 5660 | 23.720 | 5647.760 | 5671.480 | PASS |
| | | 5680 | 25.240 | 5666.920 | 5692.160 | PASS |
| | | 5700 | 21.160 | 5689.680 | 5710.840 | PASS |
| | | 5720 | 26.000 | 5707.800 | 5733.800 | PASS |
| | | 5720 UNII-2C | 17.2 | 5707.800 | 5725 | PASS |
| | | 5720 UNII-3 | 8.8 | 5725 | 5733.800 | PASS |
| | | 5745 | 23.880 | 5731.960 | 5755.840 | PASS |
| 5785 | 25.640 | 5770.920 | 5796.560 | PASS | | |
| 5805 | 26.240 | 5793.680 | 5819.920 | PASS | | |
| 5825 | 21.960 | 5814.560 | 5836.520 | PASS | | |

11.1.2. Test Graphs





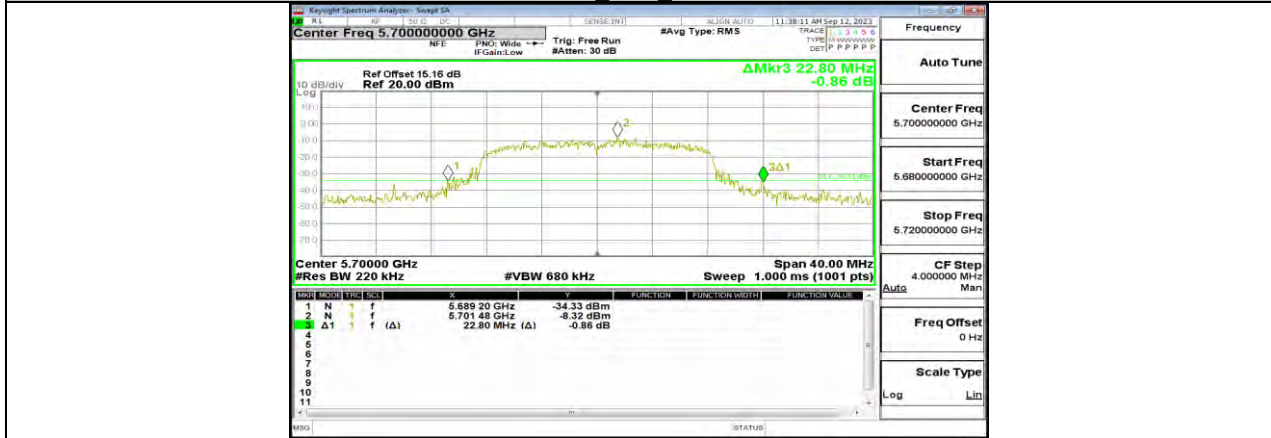




11A Ant1 5660

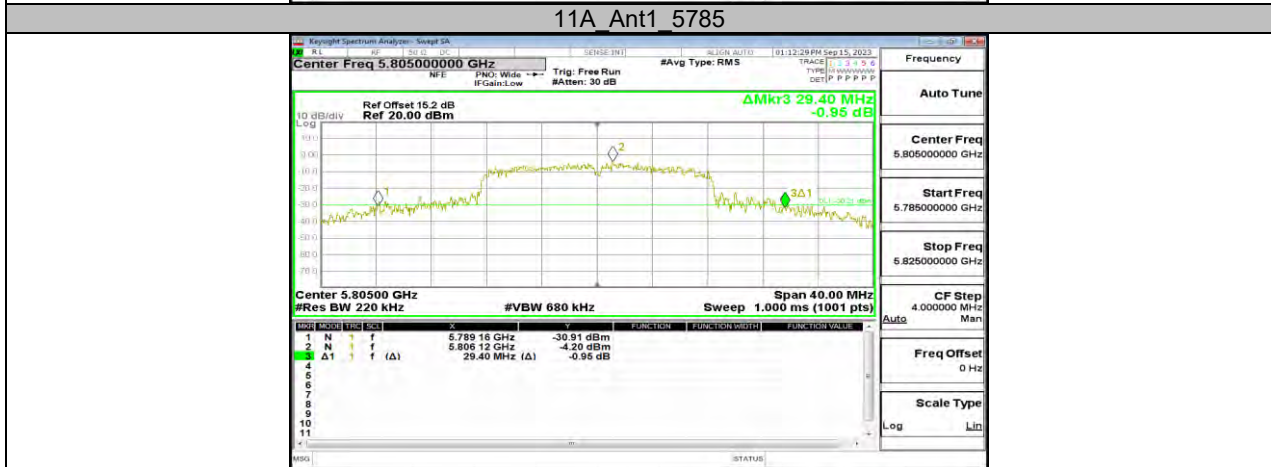
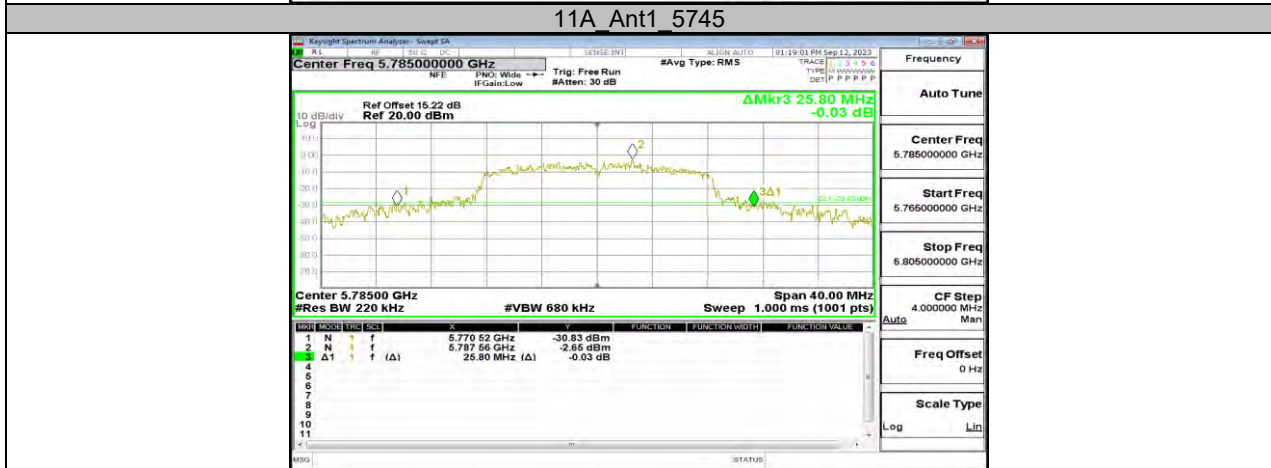


11A Ant1 5680

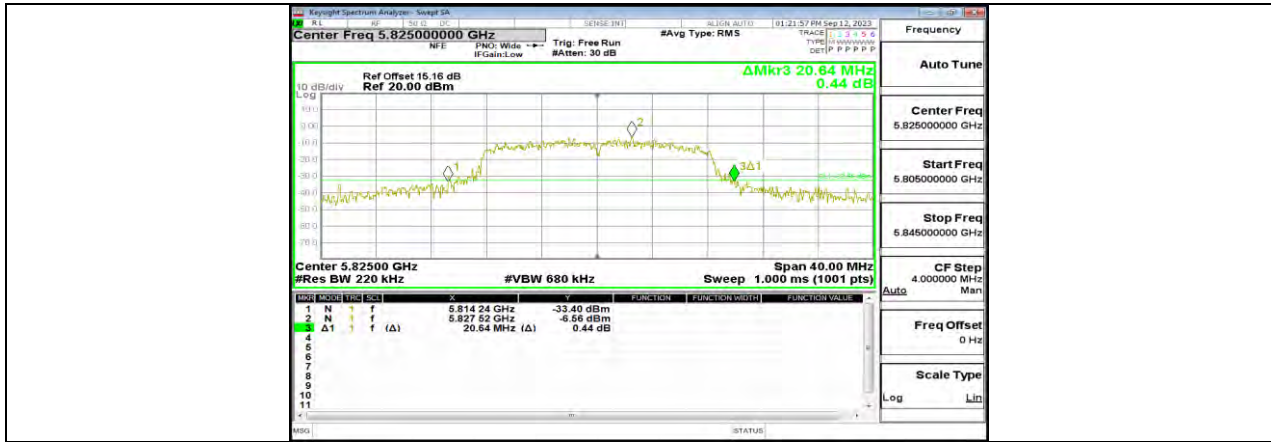


11A Ant1 5700





11A Ant1 5805



11A Ant1 5825

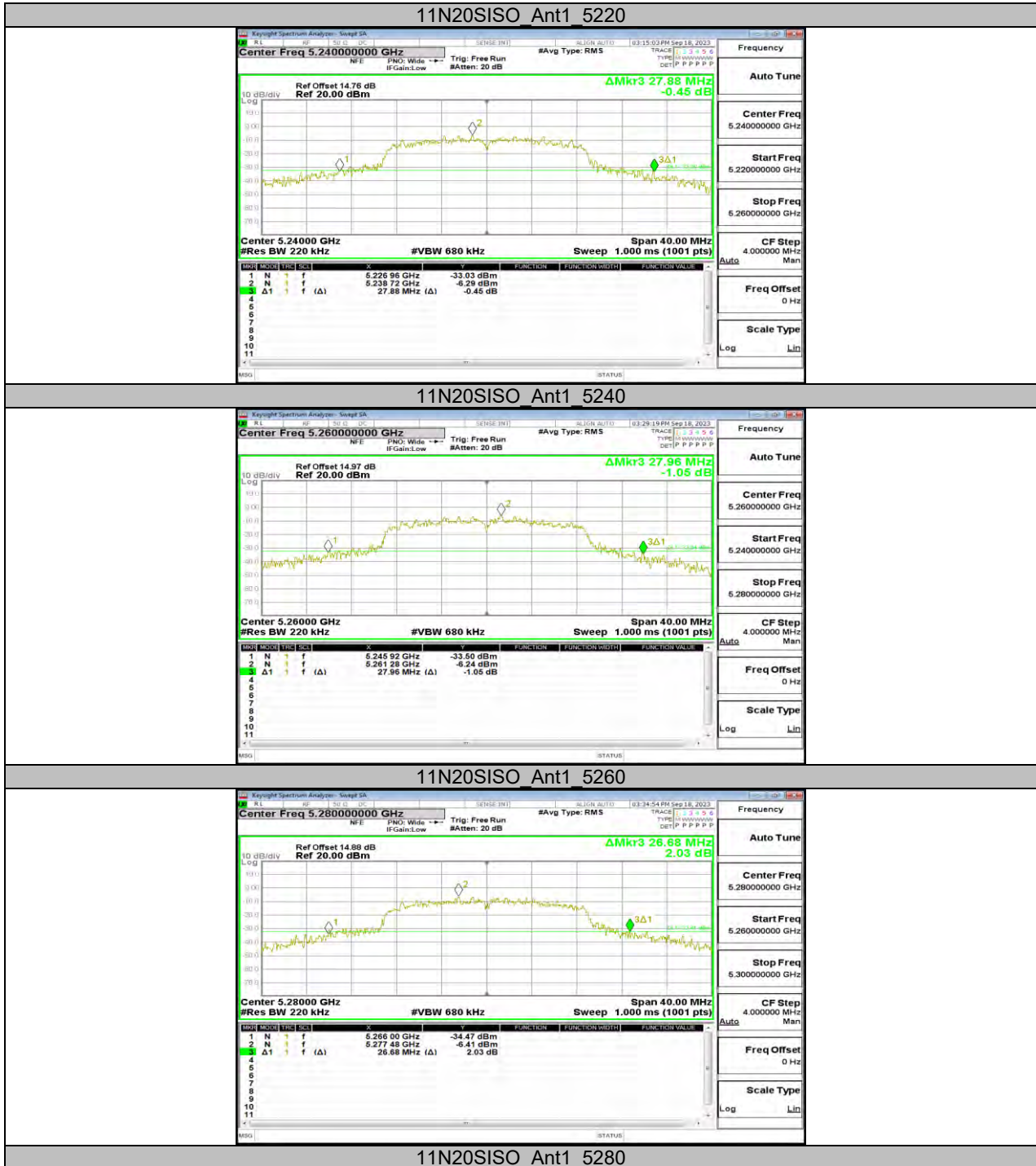


11N20SISO Ant1 5180



11N20SISO Ant1 5200







11N20SISO Ant1 5320

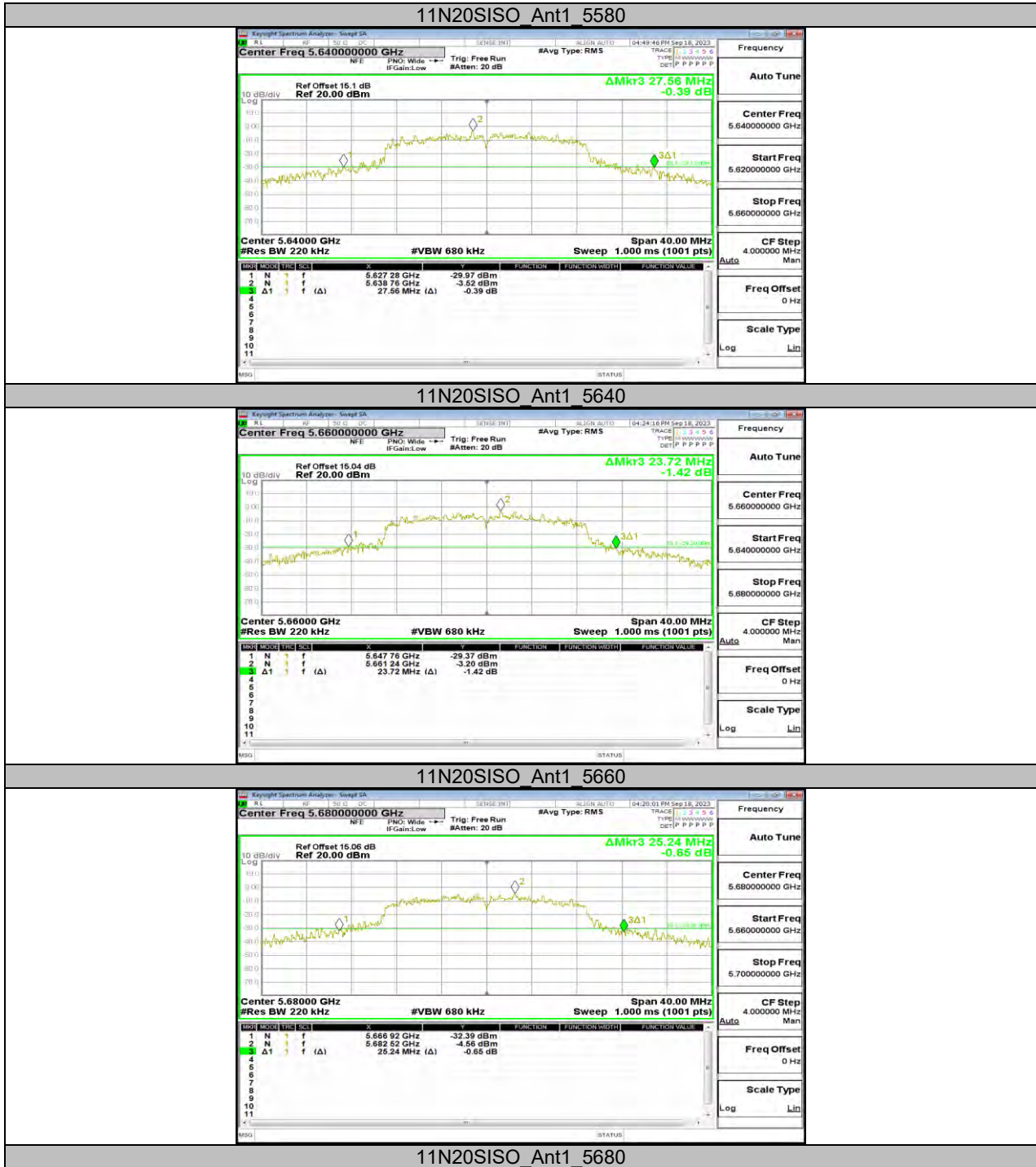


11N20SISO Ant1 5500



11N20SISO Ant1 5520







11N20SISO Ant1 5700

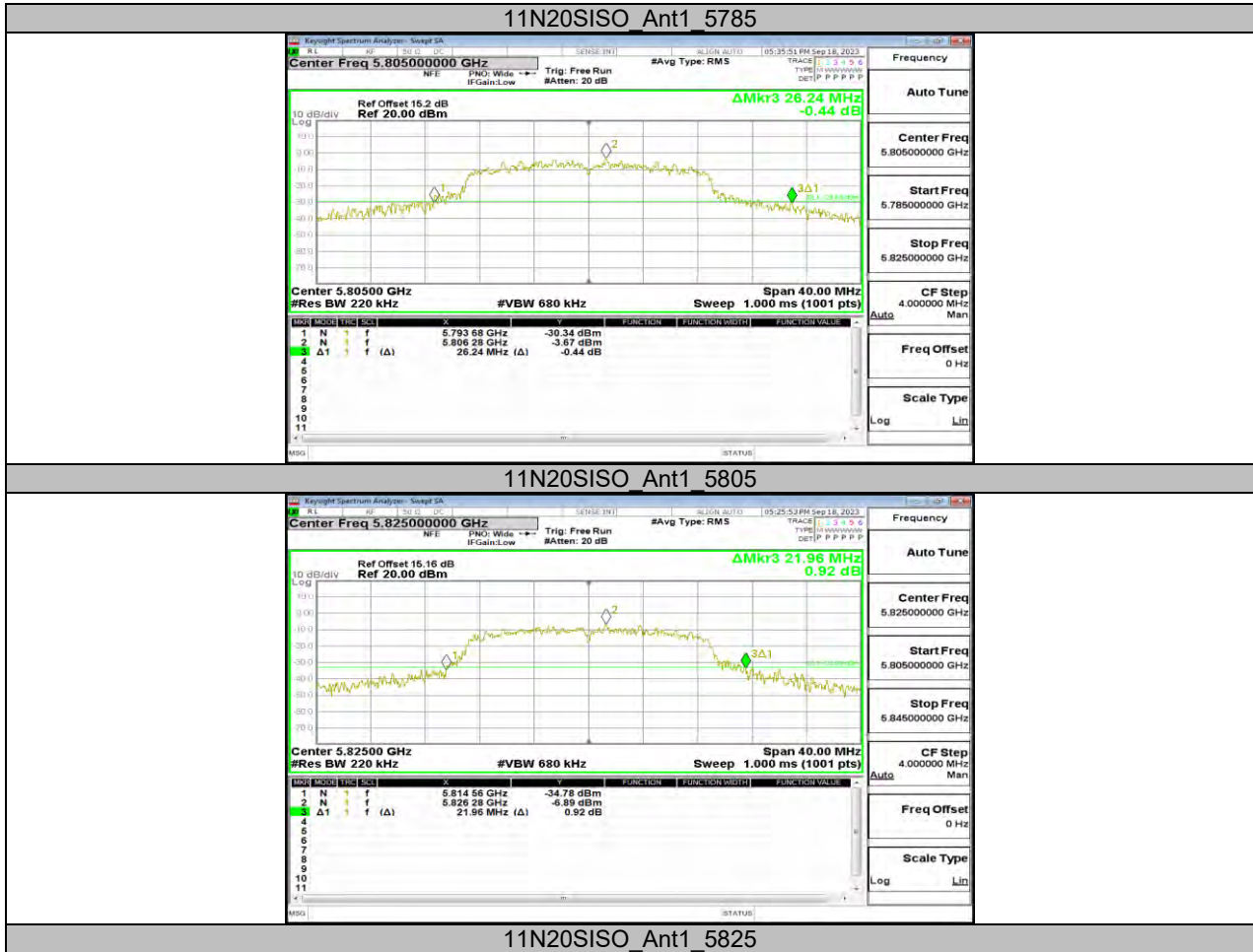


11N20SISO Ant1 5720



11N20SISO Ant1 5745





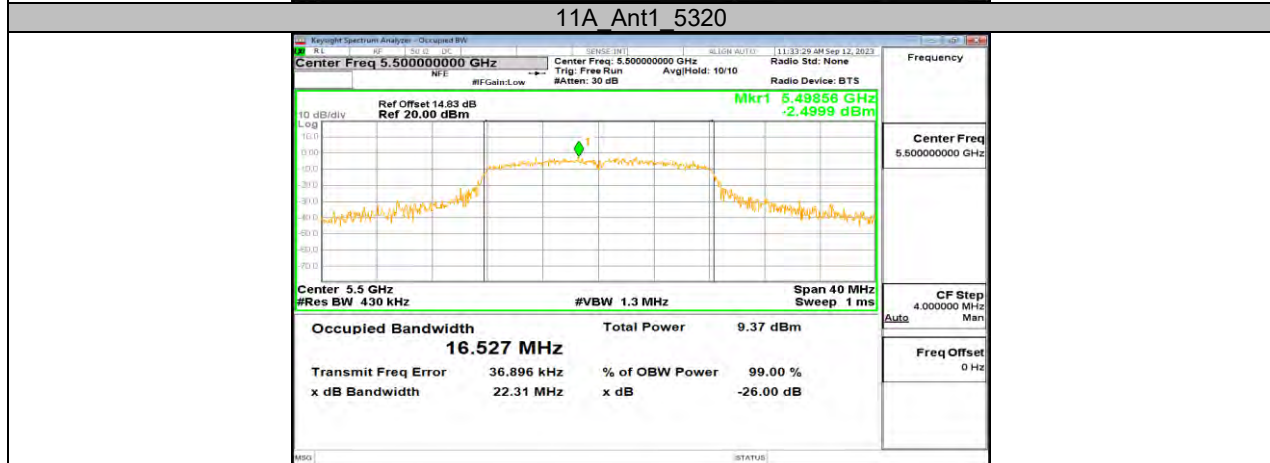
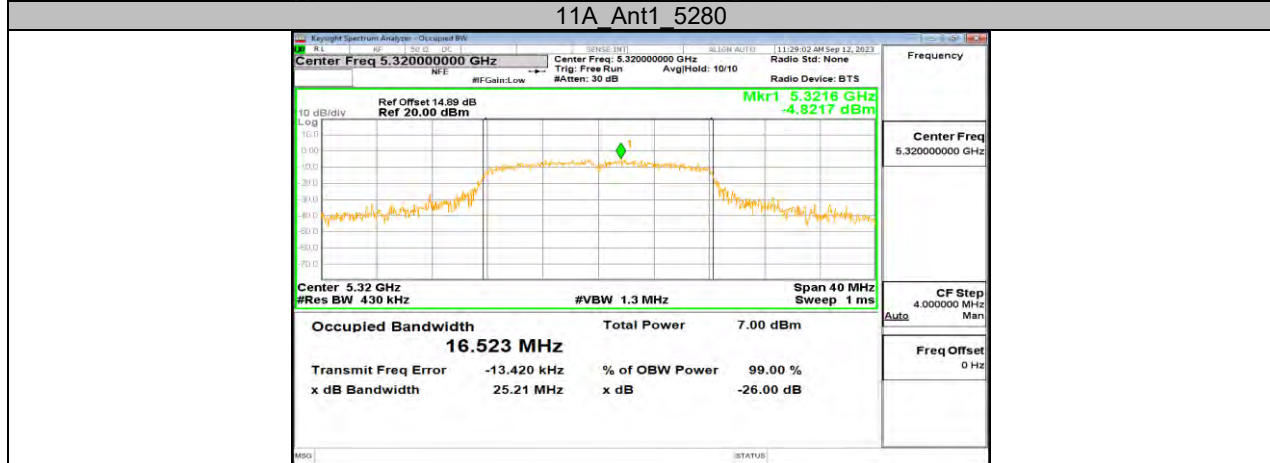
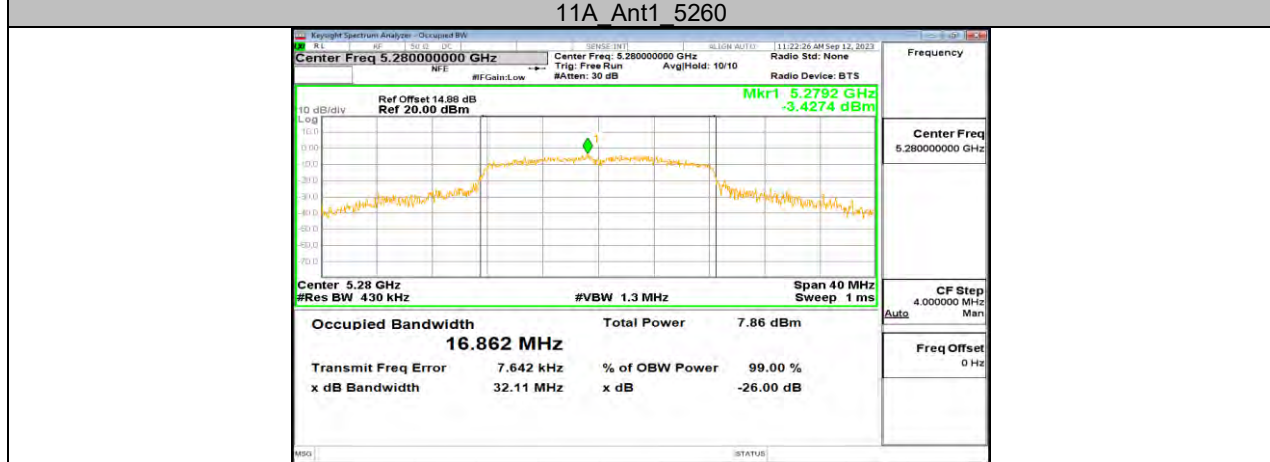
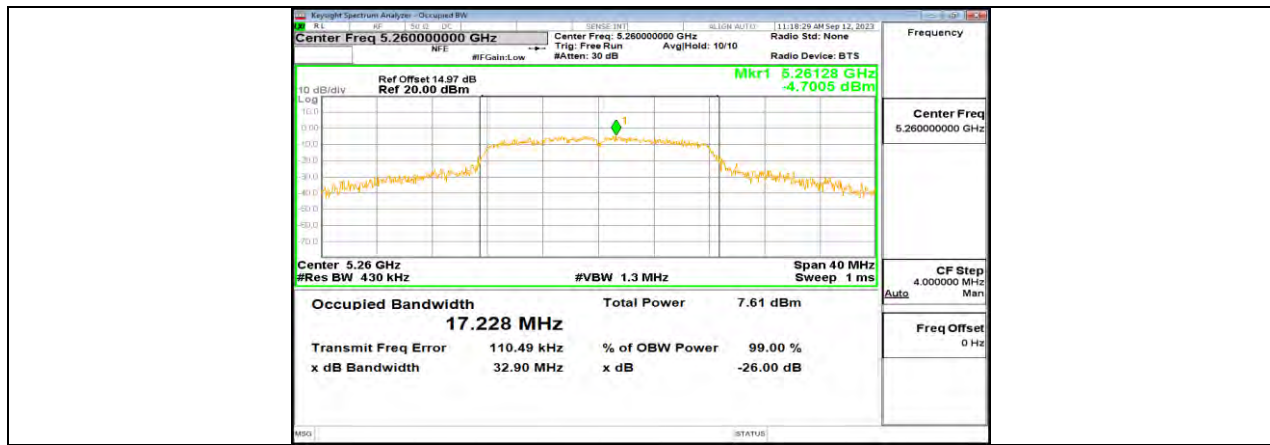
11.2. APPENDIX B2: OCCUPIED CHANNEL BANDWIDTH

11.2.1. Test Result

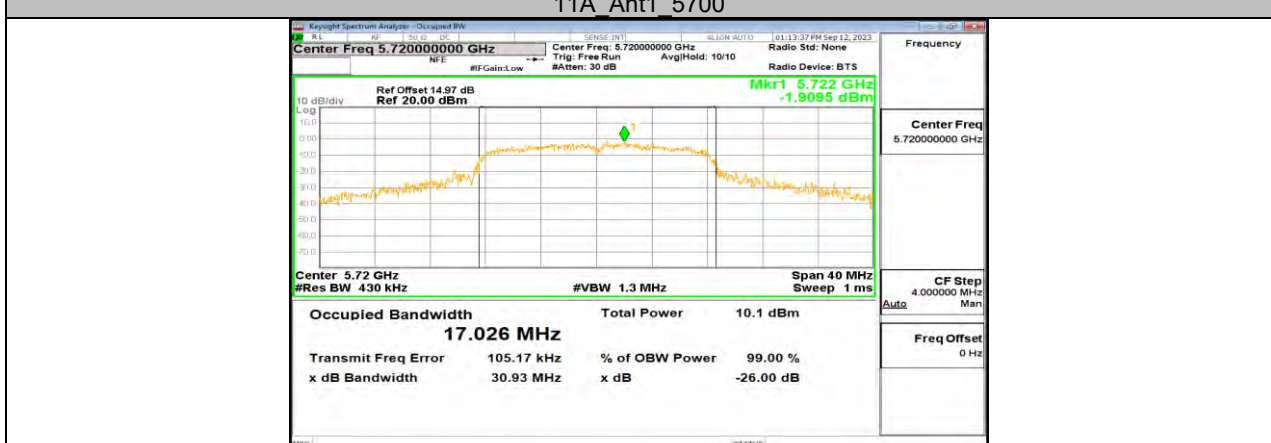
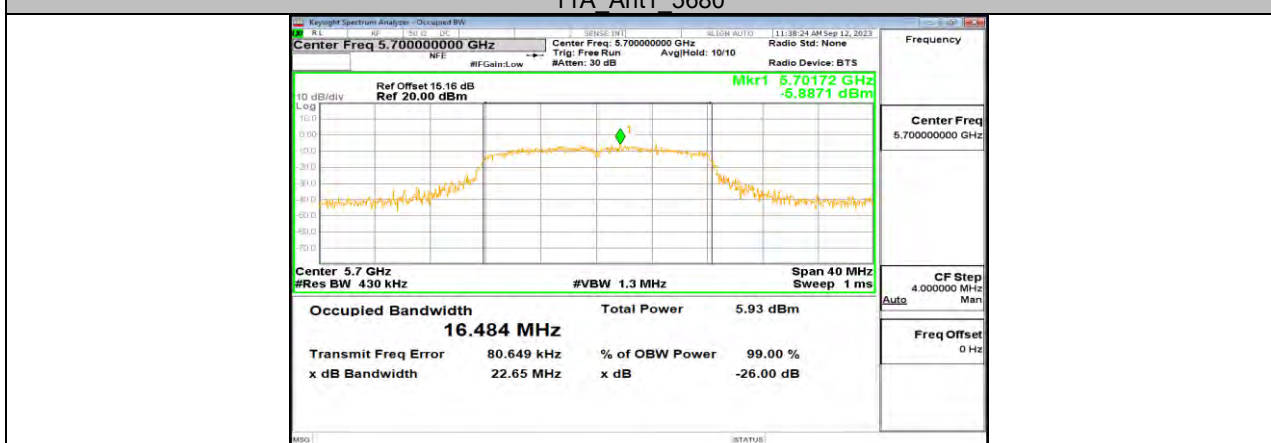
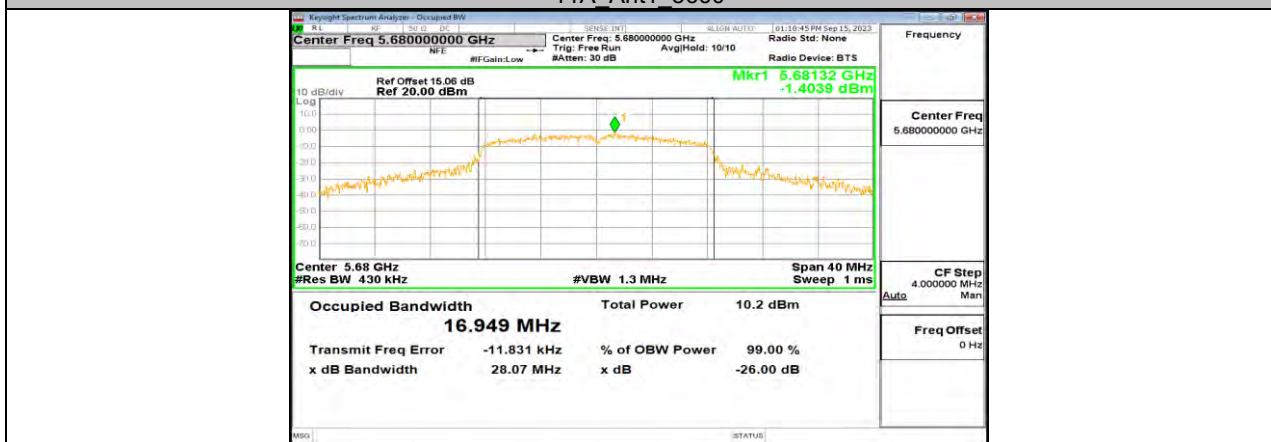
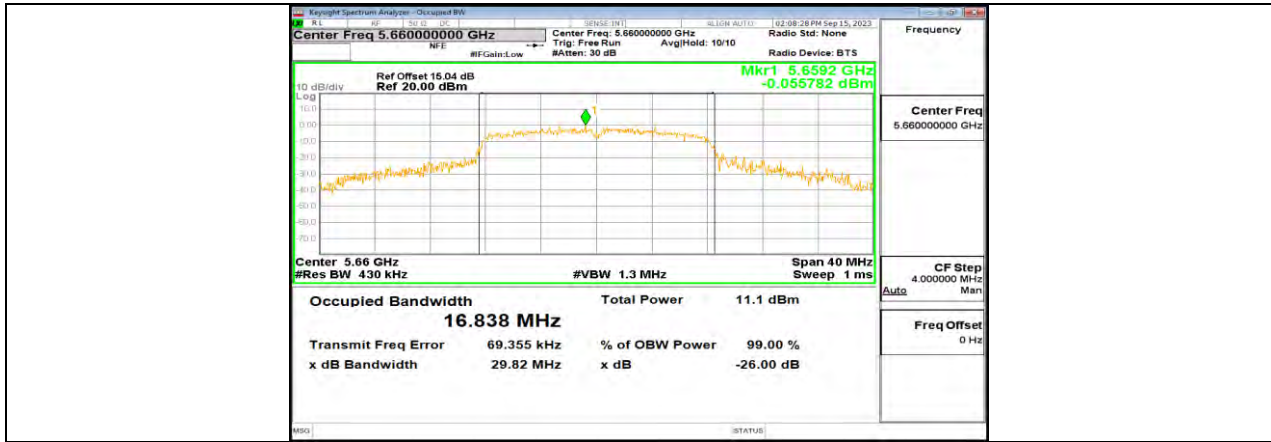
| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|---------|
| 11A | Ant1 | 5180 | 16.633 | 5171.7400 | 5188.3730 | PASS |
| | | 5200 | 17.340 | 5191.5145 | 5208.8545 | PASS |
| | | 5240 | 17.243 | 5231.4304 | 5248.6734 | PASS |
| | | 5260 | 17.228 | 5251.4965 | 5268.7245 | PASS |
| | | 5280 | 16.862 | 5271.5766 | 5288.4386 | PASS |
| | | 5320 | 16.523 | 5311.7251 | 5328.2481 | PASS |
| | | 5500 | 16.527 | 5491.7734 | 5508.3004 | PASS |
| | | 5520 | 17.238 | 5511.5488 | 5528.7868 | PASS |
| | | 5540 | 16.727 | 5531.6590 | 5548.3860 | PASS |
| | | 5580 | 17.074 | 5571.4918 | 5588.5658 | PASS |
| | | 5660 | 16.838 | 5651.6504 | 5668.4884 | PASS |
| | | 5680 | 16.949 | 5671.5137 | 5688.4627 | PASS |
| | | 5700 | 16.484 | 5691.8387 | 5708.3227 | PASS |
| | | 5720 | 17.026 | 5711.5922 | 5728.6182 | PASS |
| | | 5720 UNII-2C | 13.408 | 5711.5922 | 5725 | PASS |
| | | 5720 UNII-3 | 3.618 | 5725 | 5728.6182 | PASS |
| | | 5745 | 16.989 | 5736.5890 | 5753.5780 | PASS |
| | | 5785 | 16.924 | 5776.4627 | 5793.3867 | PASS |
| | | 5805 | 17.072 | 5796.5417 | 5813.6137 | PASS |
| | | 5825 | 16.513 | 5816.7571 | 5833.2701 | PASS |
| 11N20SISO | Ant1 | 5180 | 17.765 | 5171.1437 | 5188.9087 | PASS |
| | | 5200 | 18.206 | 5190.9271 | 5209.1331 | PASS |
| | | 5220 | 18.220 | 5210.8880 | 5229.1080 | PASS |
| | | 5240 | 18.040 | 5231.0507 | 5249.0907 | PASS |
| | | 5260 | 18.278 | 5250.8940 | 5269.1720 | PASS |
| | | 5280 | 18.135 | 5270.9589 | 5289.0939 | PASS |
| | | 5320 | 17.837 | 5311.1035 | 5328.9405 | PASS |
| | | 5500 | 17.783 | 5491.1807 | 5508.9637 | PASS |
| | | 5520 | 18.389 | 5510.8047 | 5529.1937 | PASS |
| | | 5580 | 18.227 | 5570.8530 | 5589.0800 | PASS |
| | | 5640 | 18.247 | 5630.9396 | 5649.1866 | PASS |
| | | 5660 | 18.025 | 5650.9716 | 5668.9966 | PASS |
| | | 5680 | 18.244 | 5670.7610 | 5689.0050 | PASS |
| | | 5700 | 17.735 | 5691.1959 | 5708.9309 | PASS |
| | | 5720 | 18.362 | 5710.8764 | 5729.2384 | PASS |
| | | 5720 UNII-2C | 14.124 | 5710.8764 | 5725 | PASS |
| | | 5720 UNII-3 | 4.238 | 5725 | 5729.2384 | PASS |
| | | 5745 | 18.137 | 5735.9128 | 5754.0498 | PASS |
| | | 5785 | 18.190 | 5775.7891 | 5793.9791 | PASS |
| | | 5805 | 18.176 | 5795.8823 | 5814.0583 | PASS |
| 5825 | 17.881 | 5816.0676 | 5833.9486 | PASS | | |

11.2.2. Test Graphs

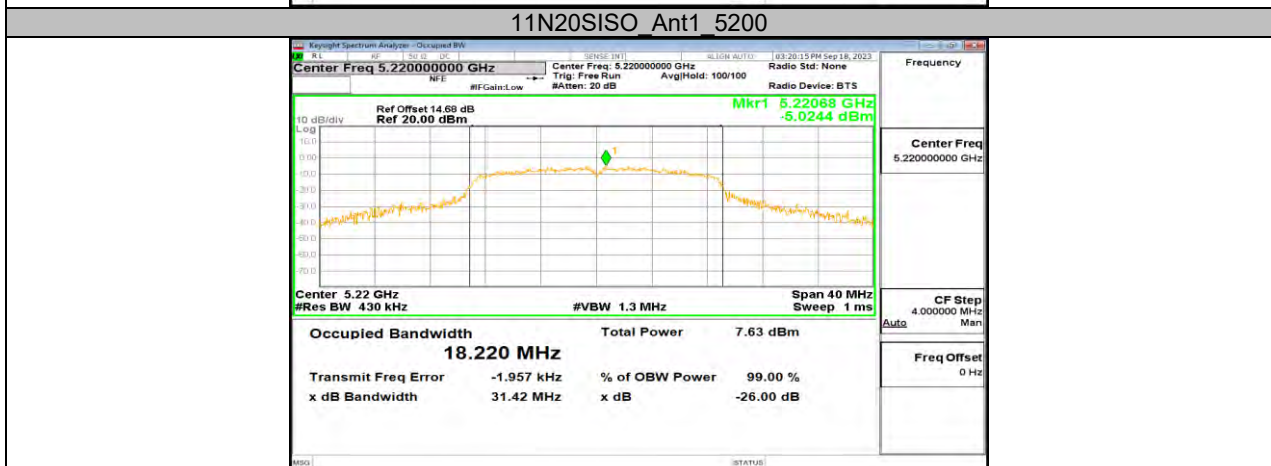
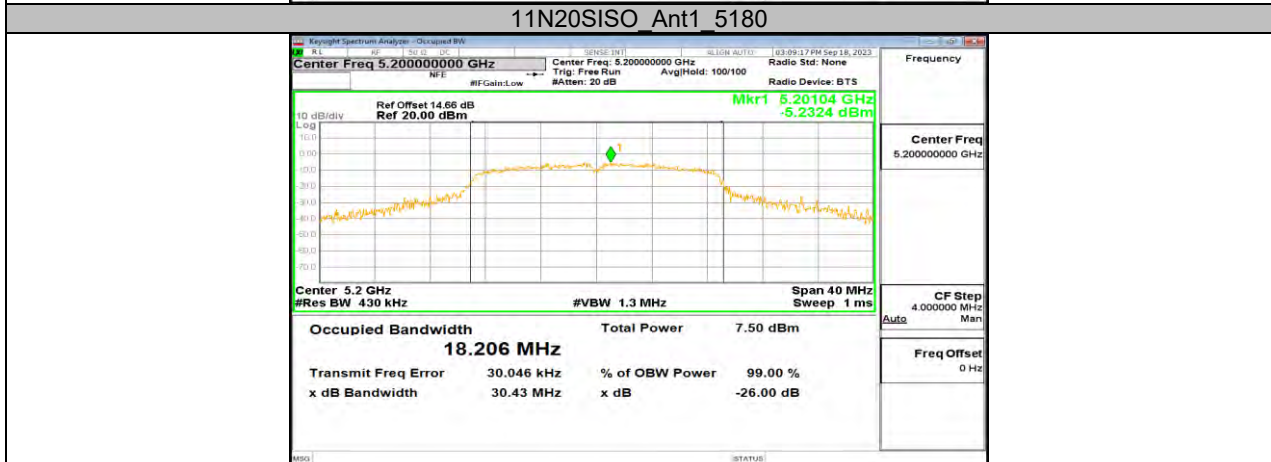
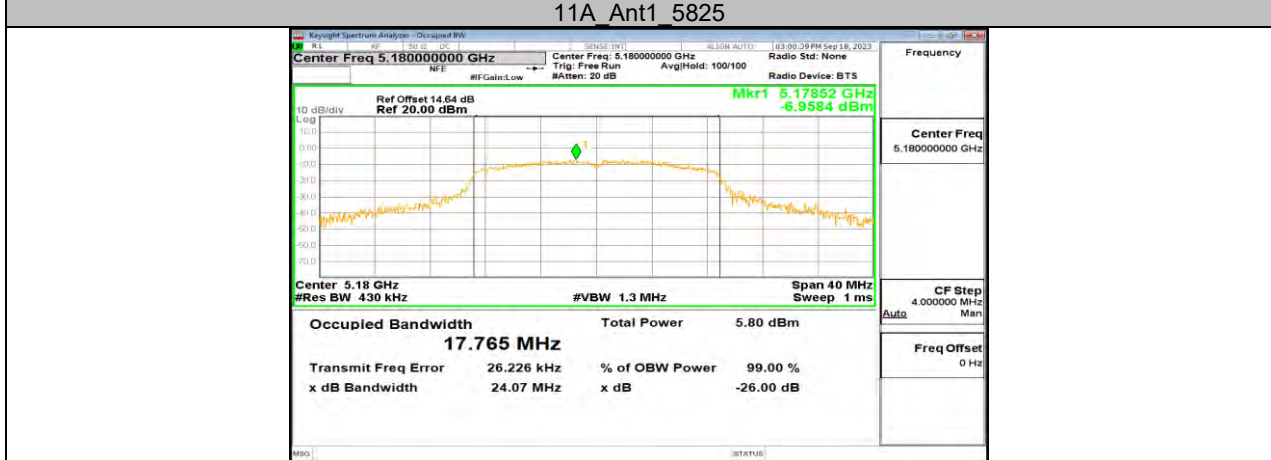
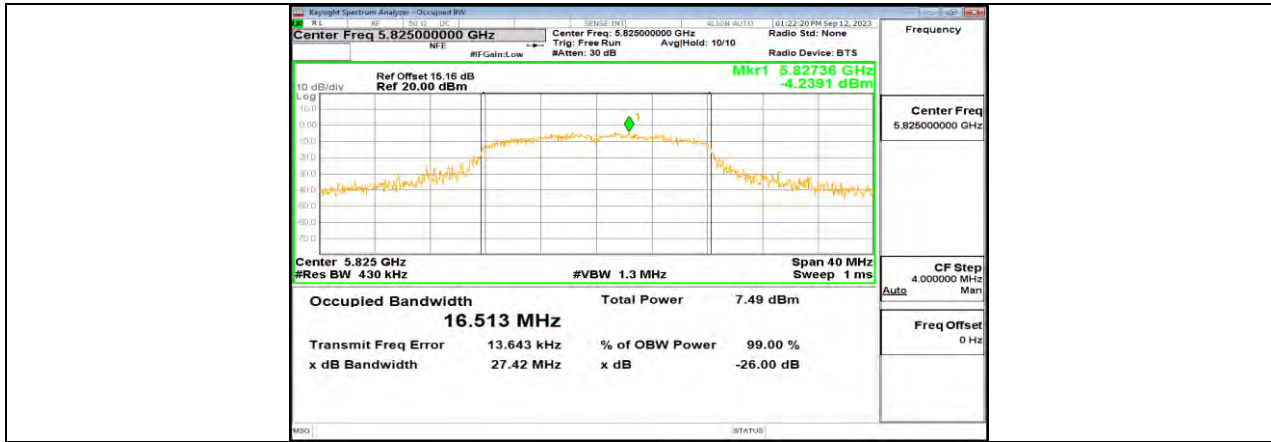




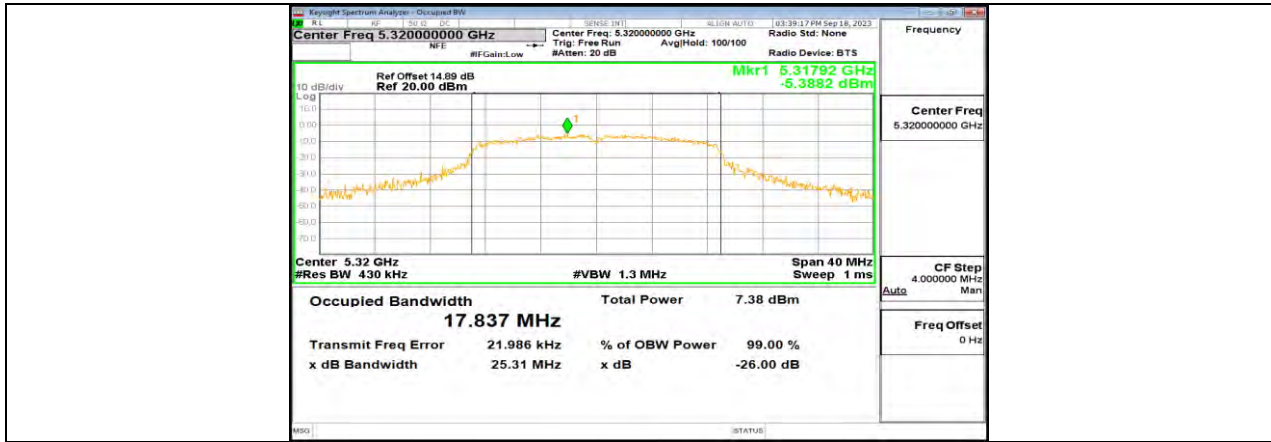




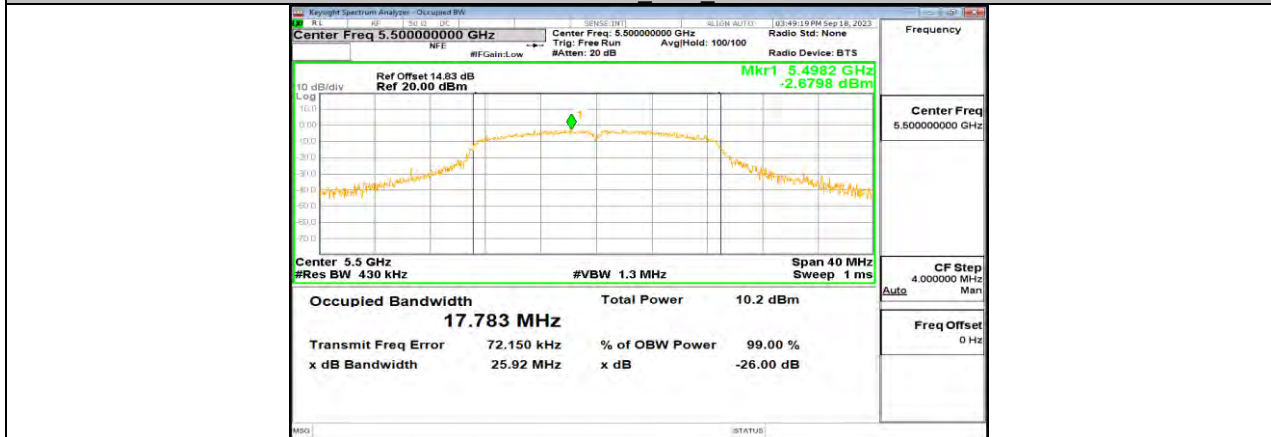




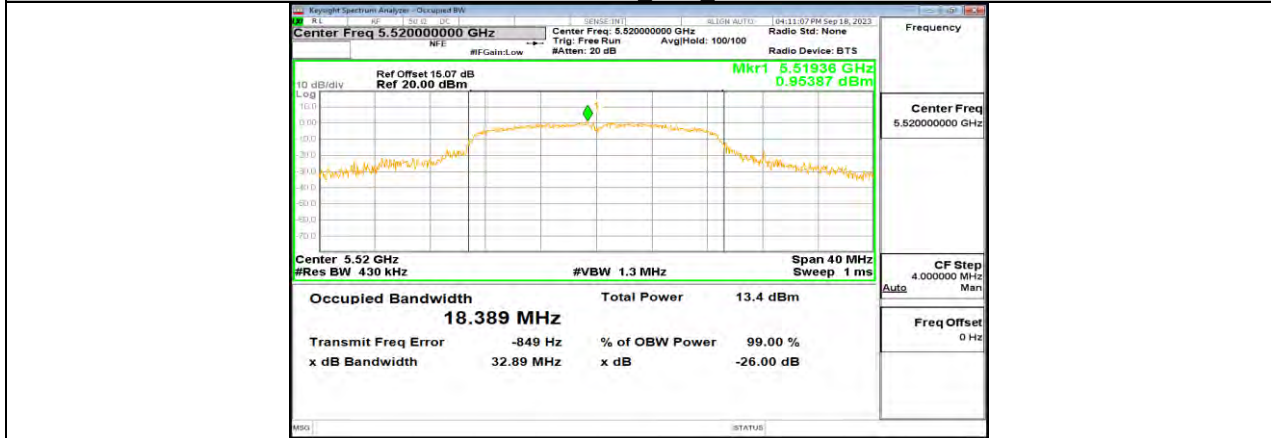




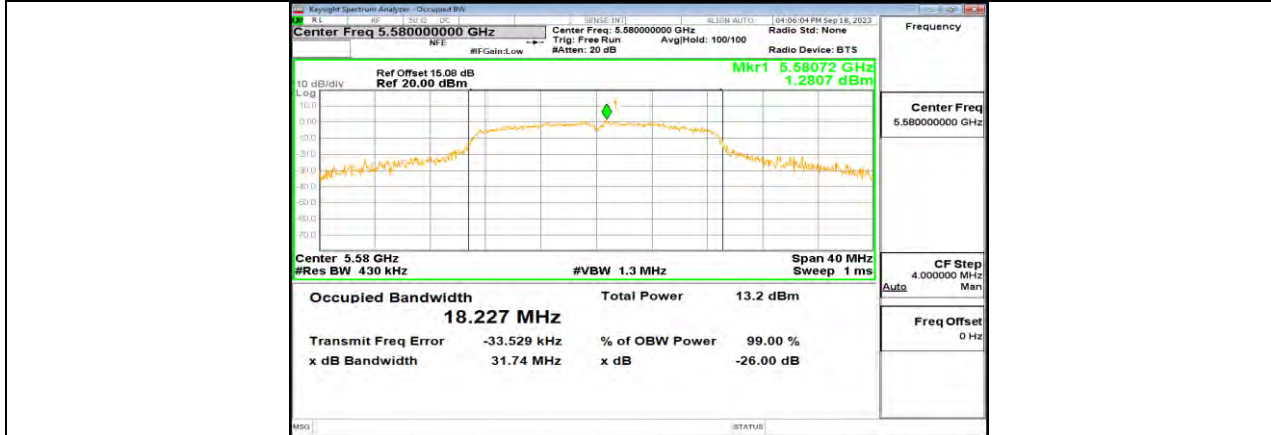
11N20SISO Ant1 5320



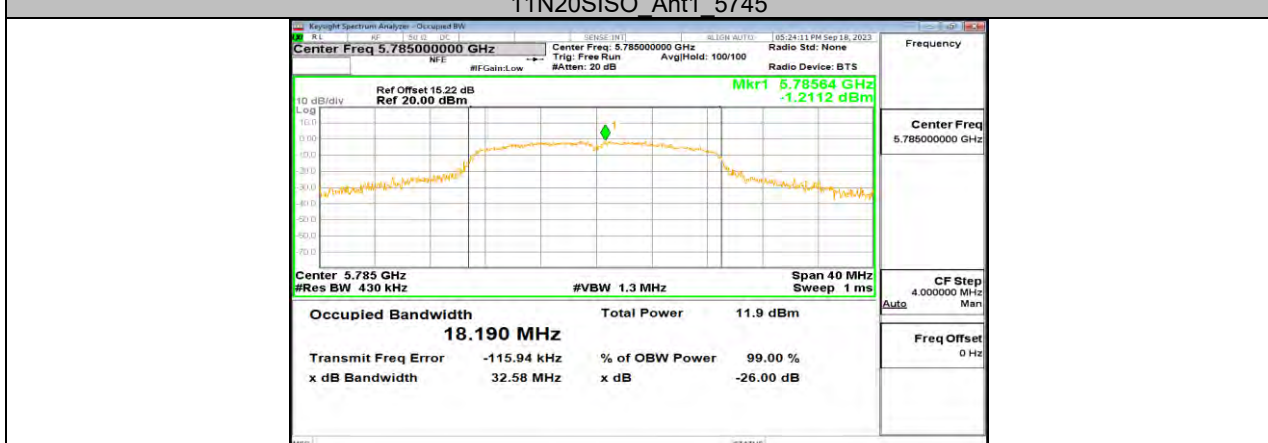
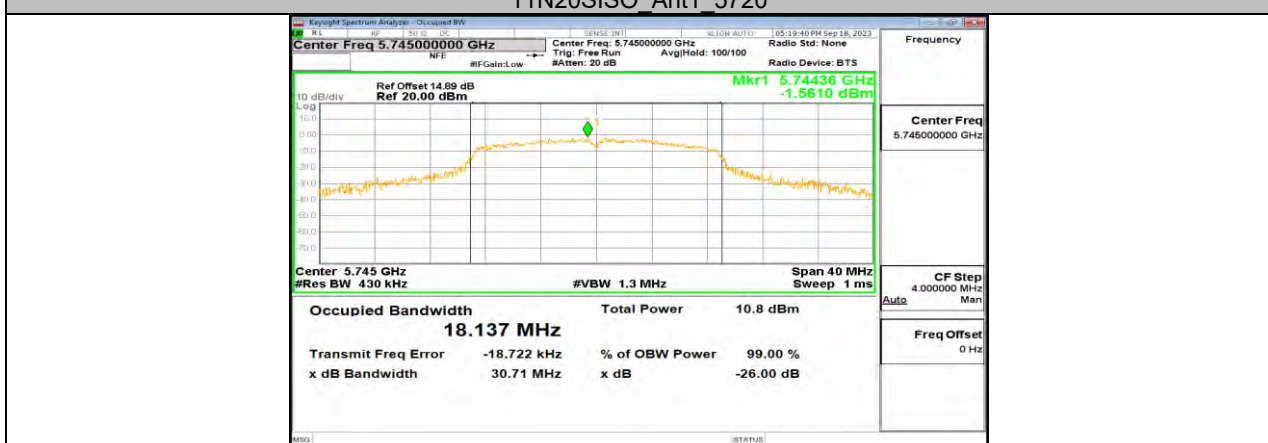
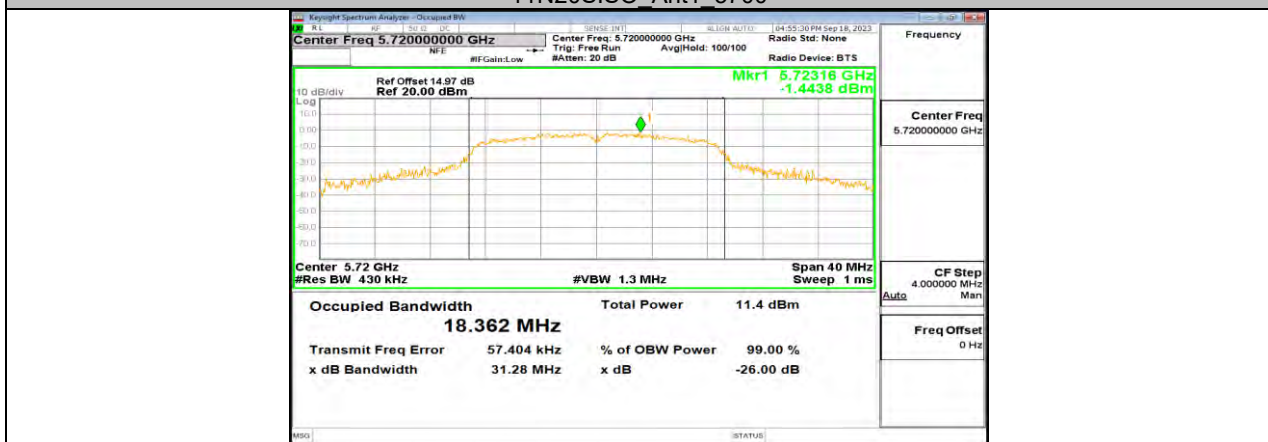
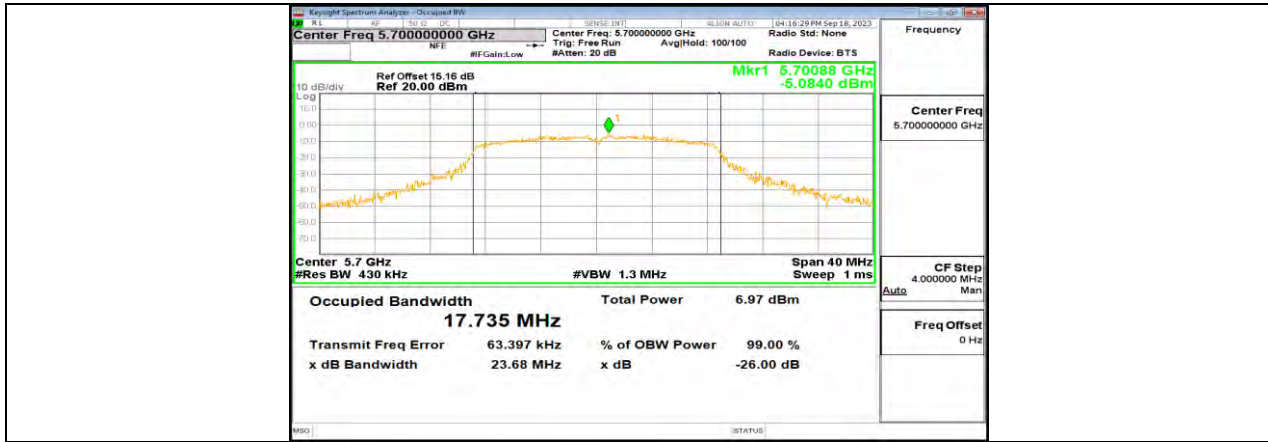
11N20SISO Ant1 5500

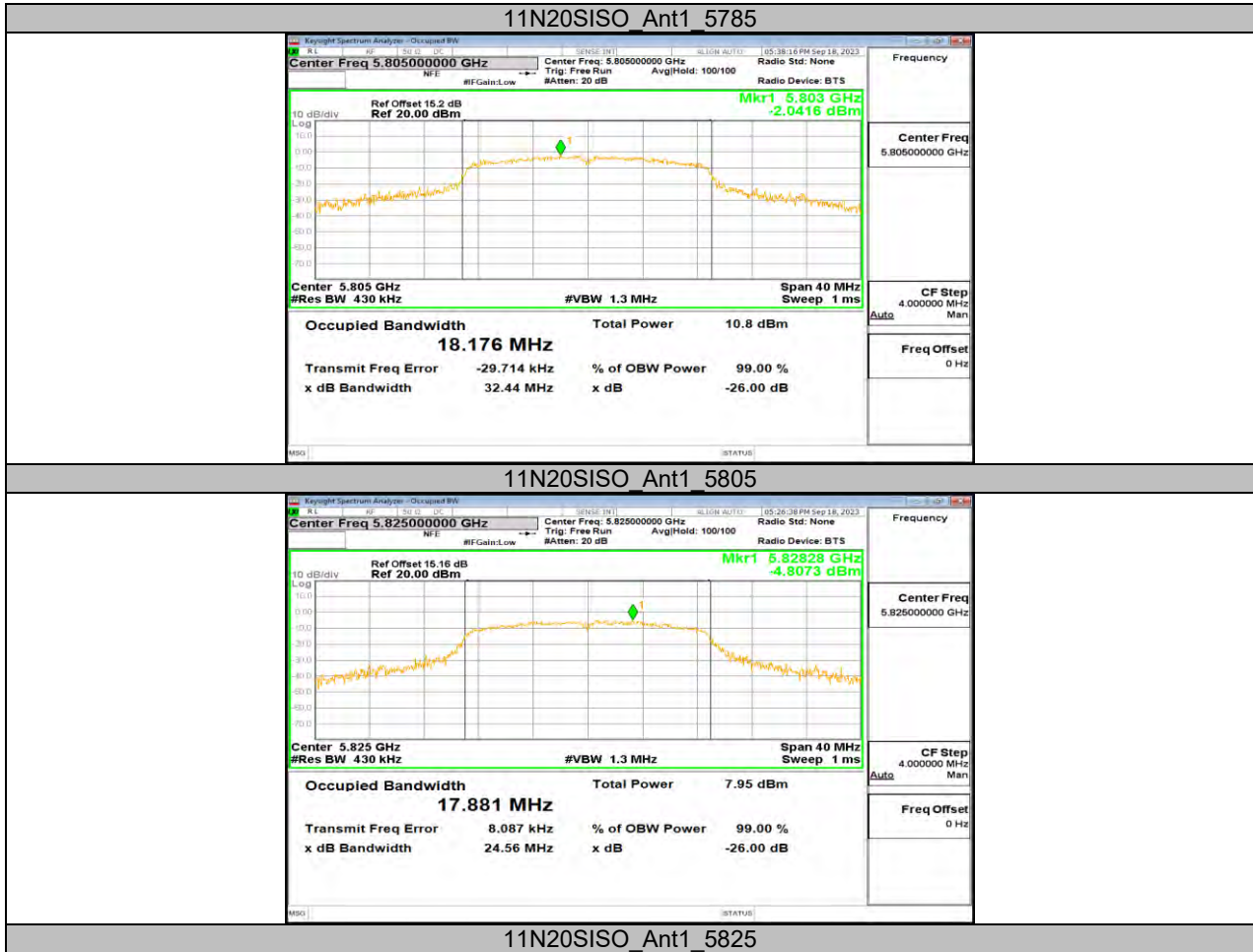


11N20SISO Ant1 5520









11.3. APPENDIX C2: MIN EMISSION BANDWIDTH

11.3.1. Test Result

| Test Mode | Antenna | Frequency[MHz] | 6db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|---------------|----------|----------|------------|---------|
| 11A | Ant1 | 5720 | 15.640 | 5712.280 | 5727.920 | ≥0.5 | PASS |
| | | 5720 UNII-3 | 2.92 | 5725 | 5727.920 | ≥0.5 | PASS |
| | | 5745 | 15.120 | 5737.240 | 5752.360 | ≥0.5 | PASS |
| | | 5785 | 15.080 | 5777.480 | 5792.560 | ≥0.5 | PASS |
| | | 5805 | 16.320 | 5796.880 | 5813.200 | ≥0.5 | PASS |
| | | 5825 | 15.920 | 5817.240 | 5833.160 | ≥0.5 | PASS |
| 11N20SISO | Ant1 | 5720 | 17.200 | 5711.600 | 5728.800 | ≥0.5 | PASS |
| | | 5720 UNII-3 | 3.8 | 5725 | 5728.800 | ≥0.5 | PASS |
| | | 5745 | 15.120 | 5737.480 | 5752.600 | ≥0.5 | PASS |
| | | 5785 | 15.000 | 5777.520 | 5792.520 | ≥0.5 | PASS |
| | | 5805 | 13.800 | 5797.520 | 5811.320 | ≥0.5 | PASS |
| | | 5825 | 14.920 | 5817.600 | 5832.520 | ≥0.5 | PASS |

11.3.2. Test Graphs





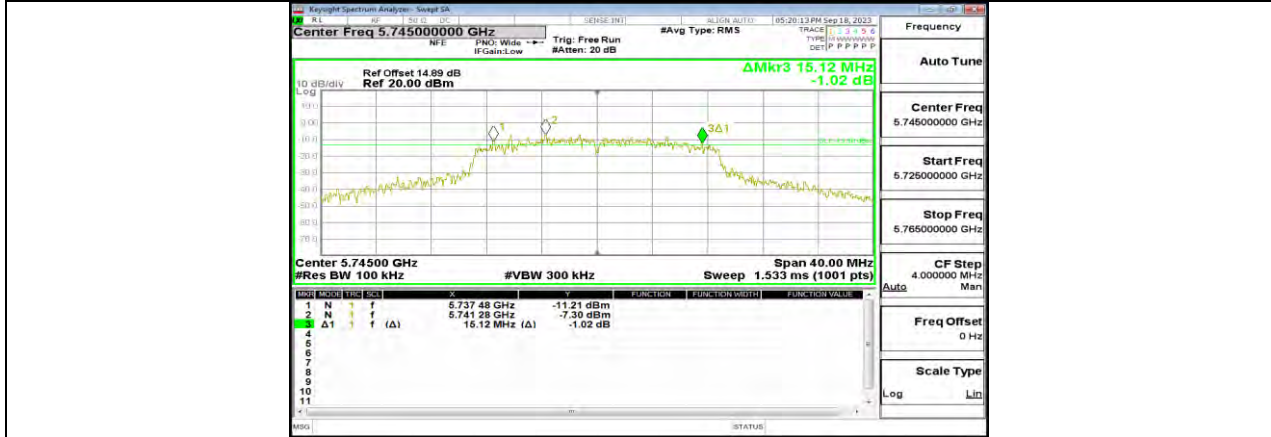
11A Ant1 5805

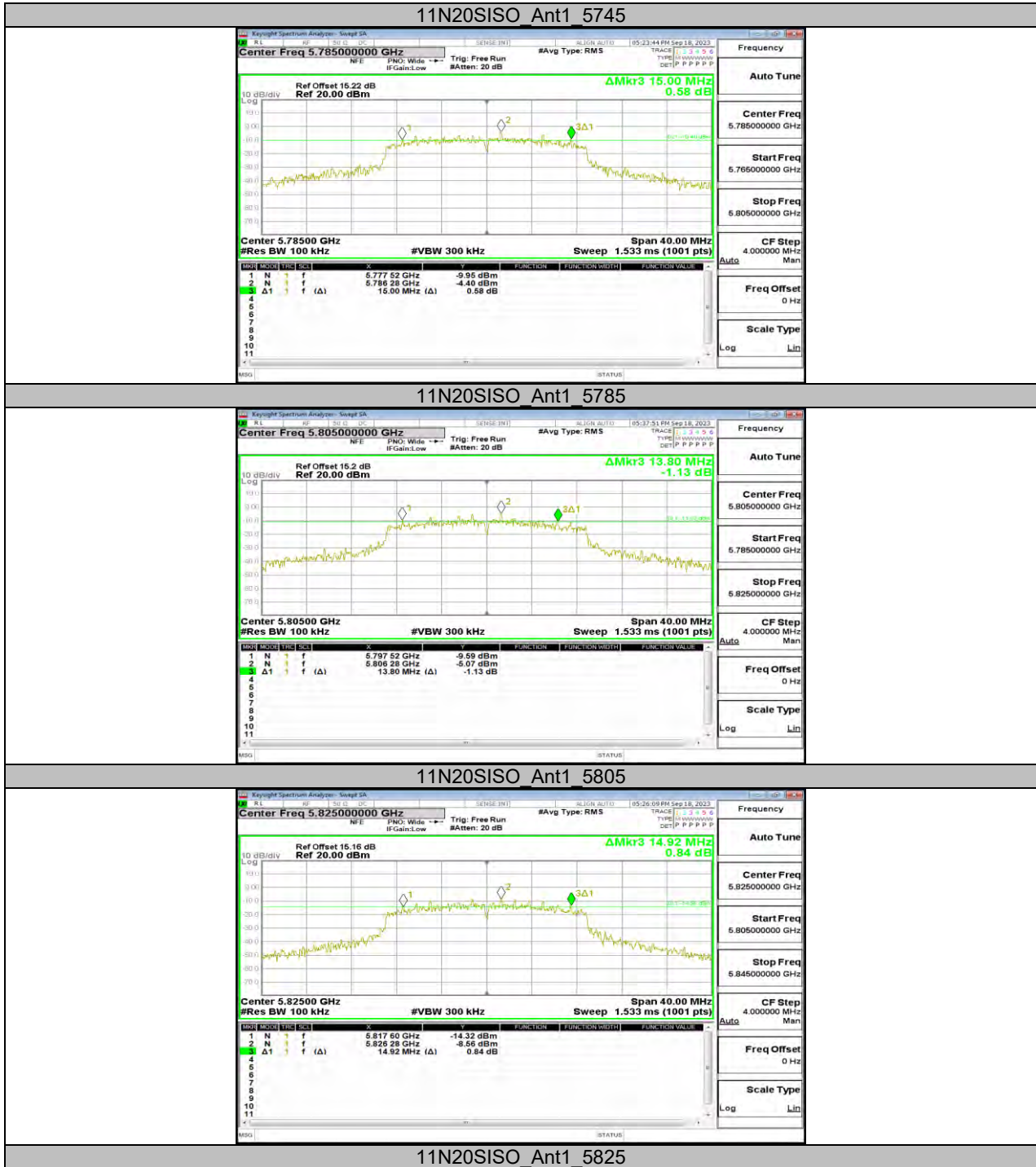


11A Ant1 5825



11N20SISO Ant1 5720





11.4. APPENDIX D2: MAXIMUM CONDUCTED OUTPUT POWER

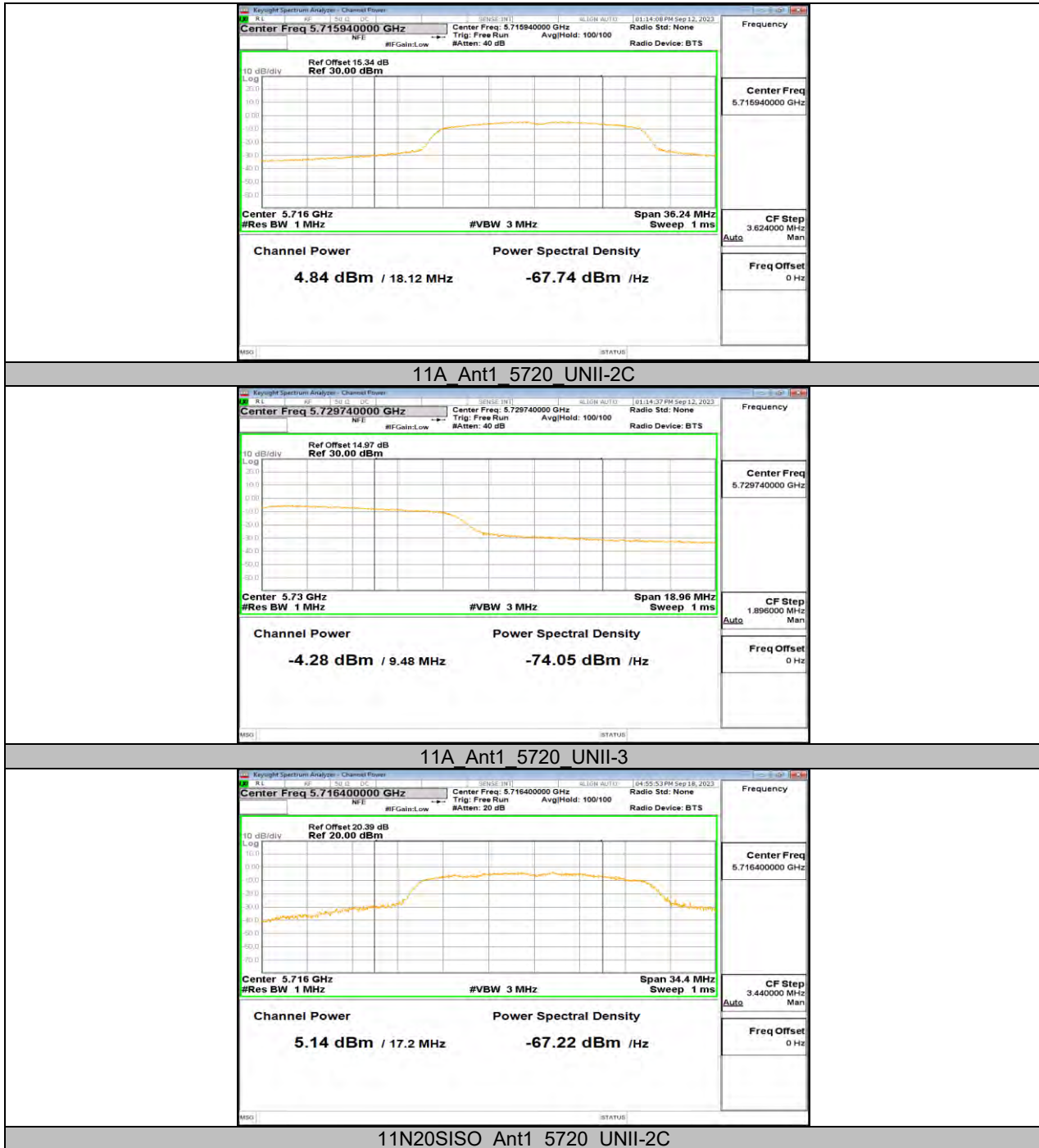
11.4.1. Test Result

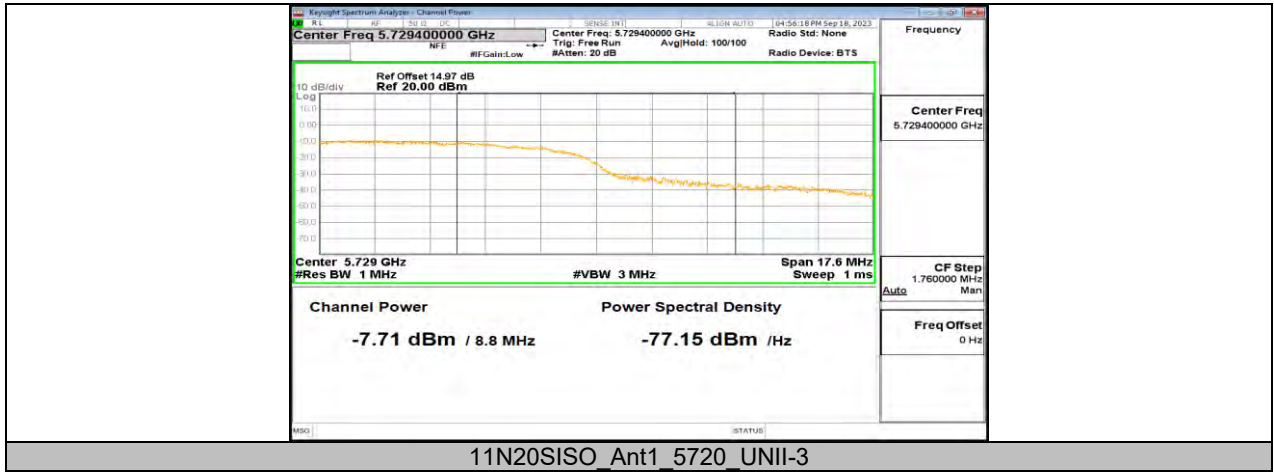
| Test Mode | Antenna | Frequency[MHz] | Power [dBm] | FCC Limit [dBm] | ISED Limit [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-------------|-----------------|------------------|------------|-------------|---------|
| 11A | Ant1 | 5180 | 0.90 | ≤23.98 | --- | 2.90 | ≤22.21 | PASS |
| | | 5200 | 2.56 | ≤23.98 | --- | 4.56 | ≤22.39 | PASS |
| | | 5240 | 2.92 | ≤23.98 | --- | 4.92 | ≤22.37 | PASS |
| | | 5260 | 2.90 | ≤23.98 | ≤23.36 | 4.90 | ≤29.36 | PASS |
| | | 5280 | 3.00 | ≤23.98 | ≤23.27 | 5.00 | ≤29.27 | PASS |
| | | 5320 | 2.43 | ≤23.98 | ≤23.18 | 4.43 | ≤29.18 | PASS |
| | | 5500 | 4.77 | ≤23.98 | ≤23.18 | 6.77 | ≤29.18 | PASS |
| | | 5520 | 8.53 | ≤23.98 | ≤23.36 | 10.53 | ≤29.36 | PASS |
| | | 5540 | 8.17 | ≤23.98 | ≤23.23 | 10.17 | ≤29.23 | PASS |
| | | 5580 | 7.14 | ≤23.98 | ≤23.32 | 9.14 | ≤29.32 | PASS |
| | | 5660 | 6.39 | ≤23.98 | ≤23.26 | 8.39 | ≤29.26 | PASS |
| | | 5680 | 5.42 | ≤23.98 | ≤23.29 | 7.42 | ≤29.29 | PASS |
| | | 5700 | 1.38 | ≤23.98 | ≤23.17 | 3.38 | ≤29.17 | PASS |
| | | 5720 UNII-2C | 4.84 | ≤23.58 | ≤22.27 | 6.84 | ≤28.27 | PASS |
| | | 5720 UNII-3 | -4.28 | ≤30.00 | ≤30.00 | -2.28 | --- | PASS |
| | | 5745 | 5.25 | ≤30.00 | ≤30.00 | 7.25 | --- | PASS |
| | | 5785 | 6.37 | ≤30.00 | ≤30.00 | 8.37 | --- | PASS |
| 5805 | 6.01 | ≤30.00 | ≤30.00 | 8.01 | --- | PASS | | |
| 5825 | 2.93 | ≤30.00 | ≤30.00 | 4.93 | --- | PASS | | |
| 11N20SISO | Ant1 | 5180 | 1.56 | ≤23.98 | --- | 3.56 | ≤22.50 | PASS |
| | | 5200 | 2.25 | ≤23.98 | --- | 4.25 | ≤22.60 | PASS |
| | | 5220 | 2.49 | ≤23.98 | --- | 4.49 | ≤22.61 | PASS |
| | | 5240 | 3.46 | ≤23.98 | --- | 5.46 | ≤22.56 | PASS |
| | | 5260 | 2.81 | ≤23.98 | ≤23.62 | 4.81 | ≤29.62 | PASS |
| | | 5280 | 2.66 | ≤23.98 | ≤23.59 | 4.66 | ≤29.59 | PASS |
| | | 5320 | 2.80 | ≤23.98 | ≤23.51 | 4.80 | ≤29.51 | PASS |
| | | 5500 | 4.97 | ≤23.98 | ≤23.50 | 6.97 | ≤29.50 | PASS |
| | | 5520 | 8.16 | ≤23.98 | ≤23.65 | 10.16 | ≤29.65 | PASS |
| | | 5580 | 8.26 | ≤23.98 | ≤23.61 | 10.26 | ≤29.61 | PASS |
| | | 5640 | 6.02 | ≤23.98 | ≤23.61 | 8.02 | ≤29.61 | PASS |
| | | 5660 | 6.05 | ≤23.98 | ≤23.56 | 8.05 | ≤29.56 | PASS |
| | | 5680 | 4.86 | ≤23.98 | ≤23.61 | 6.86 | ≤29.61 | PASS |
| | | 5700 | 1.93 | ≤23.98 | ≤23.49 | 3.93 | ≤29.49 | PASS |
| | | 5720 UNII-2C | 5.14 | ≤23.36 | ≤22.50 | 7.14 | ≤28.50 | PASS |
| | | 5720 UNII-3 | -7.71 | ≤30.00 | ≤30.00 | -5.71 | --- | PASS |
| | | 5745 | 6.03 | ≤30.00 | ≤30.00 | 8.03 | --- | PASS |
| 5785 | 6.60 | ≤30.00 | ≤30.00 | 8.60 | --- | PASS | | |
| 5805 | 5.96 | ≤30.00 | ≤30.00 | 7.96 | --- | PASS | | |
| 5825 | 2.96 | ≤30.00 | ≤30.00 | 4.96 | --- | PASS | | |

Note: 1. Conducted Power=Meas. Level+ Correction Factor

2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

11.4.2. Test Graphs





11.5. APPENDIX E2: MAXIMUM POWER SPECTRAL DENSITY

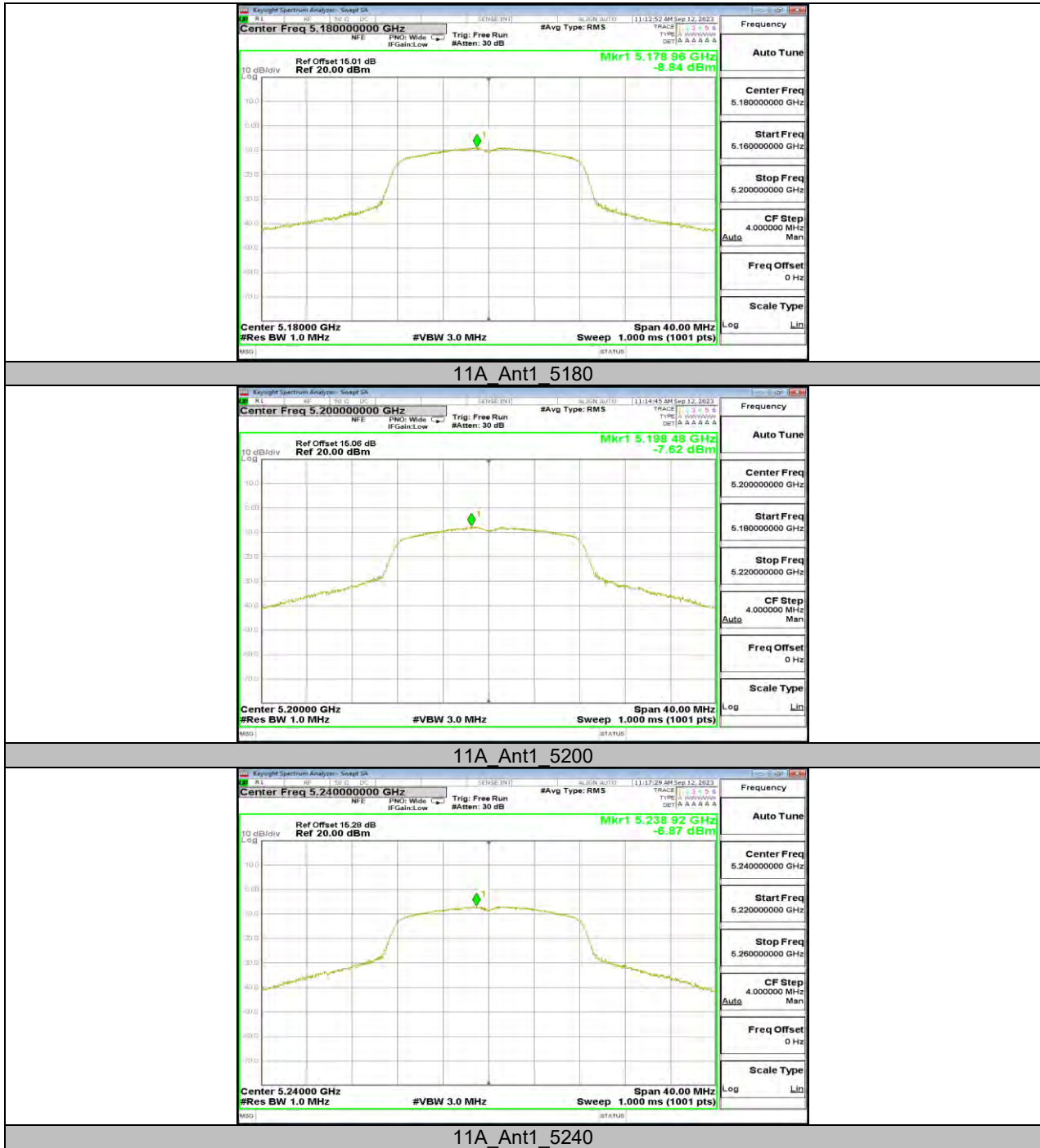
11.5.1. Test Result

| Test Mode | Antenna | Frequency[MHz] | Power [dBm/MHz] | Limit [dBm/MHz] | EIRP [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|-----------|---------|----------------|-----------------|-----------------|----------------|-----------------|---------|
| 11A | Ant1 | 5180 | -8.84 | ≤11.00 | -6.84 | ≤10.00 | PASS |
| | | 5200 | -7.62 | ≤11.00 | -5.62 | ≤10.00 | PASS |
| | | 5240 | -6.87 | ≤11.00 | -4.87 | ≤10.00 | PASS |
| | | 5260 | -6.95 | ≤11.00 | -4.95 | --- | PASS |
| | | 5280 | -6.98 | ≤11.00 | -4.98 | --- | PASS |
| | | 5320 | -7.55 | ≤11.00 | -5.55 | --- | PASS |
| | | 5500 | -4.97 | ≤11.00 | -2.97 | --- | PASS |
| | | 5520 | -0.81 | ≤11.00 | 1.19 | --- | PASS |
| | | 5540 | -2.02 | ≤11.00 | -0.02 | --- | PASS |
| | | 5580 | -2.83 | ≤11.00 | -0.83 | --- | PASS |
| | | 5660 | -3.03 | ≤11.00 | -1.03 | --- | PASS |
| | | 5680 | -4.85 | ≤11.00 | -2.85 | --- | PASS |
| | | 5700 | -8.61 | ≤11.00 | -6.61 | --- | PASS |
| | | 5720_UNII-2C | -4.58 | ≤11.00 | -2.58 | --- | PASS |
| | | 5720_UNII-3 | -8.9 | ≤30.00 | -6.90 | --- | PASS |
| | | 5745 | -7.33 | ≤30.00 | -5.33 | --- | PASS |
| | | 5785 | -6.36 | ≤30.00 | -4.36 | --- | PASS |
| | | 5805 | -6.72 | ≤30.00 | -4.72 | --- | PASS |
| 5825 | -9.76 | ≤30.00 | -7.76 | --- | PASS | | |
| 11N20SISO | Ant1 | 5180 | -8.56 | ≤11.00 | -6.56 | ≤10.00 | PASS |
| | | 5200 | -6.36 | ≤11.00 | -4.36 | ≤10.00 | PASS |
| | | 5220 | -9.74 | ≤11.00 | -7.74 | ≤10.00 | PASS |
| | | 5240 | -9.16 | ≤11.00 | -7.16 | --- | PASS |
| | | 5260 | -8.56 | ≤11.00 | -6.56 | --- | PASS |
| | | 5280 | -8.7 | ≤11.00 | -6.70 | --- | PASS |
| | | 5320 | -9.09 | ≤11.00 | -7.09 | --- | PASS |
| | | 5500 | -2.04 | ≤11.00 | -0.04 | --- | PASS |
| | | 5520 | -2.41 | ≤11.00 | -0.41 | --- | PASS |
| | | 5580 | -3.19 | ≤11.00 | -1.19 | --- | PASS |
| | | 5640 | -6.13 | ≤11.00 | -4.13 | --- | PASS |
| | | 5660 | -4.99 | ≤11.00 | -2.99 | --- | PASS |
| | | 5680 | -6.78 | ≤11.00 | -4.78 | --- | PASS |
| | | 5700 | -8.57 | ≤11.00 | -6.57 | --- | PASS |
| | | 5720_UNII-2C | -4.55 | ≤11.00 | -2.55 | --- | PASS |
| | | 5720_UNII-3 | -10.04 | ≤30.00 | -8.04 | --- | PASS |
| | | 5745 | -7.57 | ≤30.00 | -5.57 | --- | PASS |
| | | 5785 | -7.44 | ≤30.00 | -5.44 | --- | PASS |
| 5805 | -8 | ≤30.00 | -6.00 | --- | PASS | | |
| 5825 | -8.31 | ≤30.00 | -6.31 | --- | 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.

11.5.2. Test Graphs

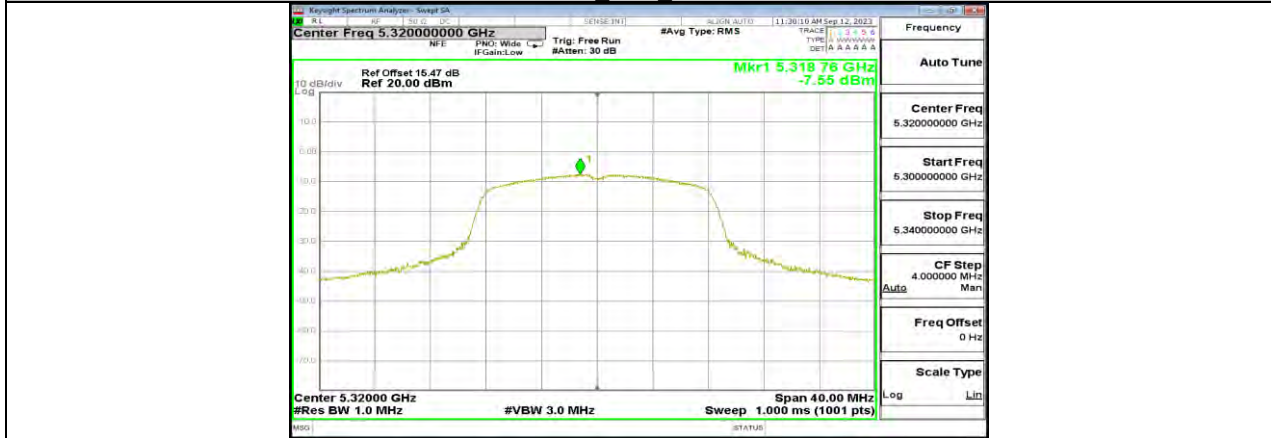




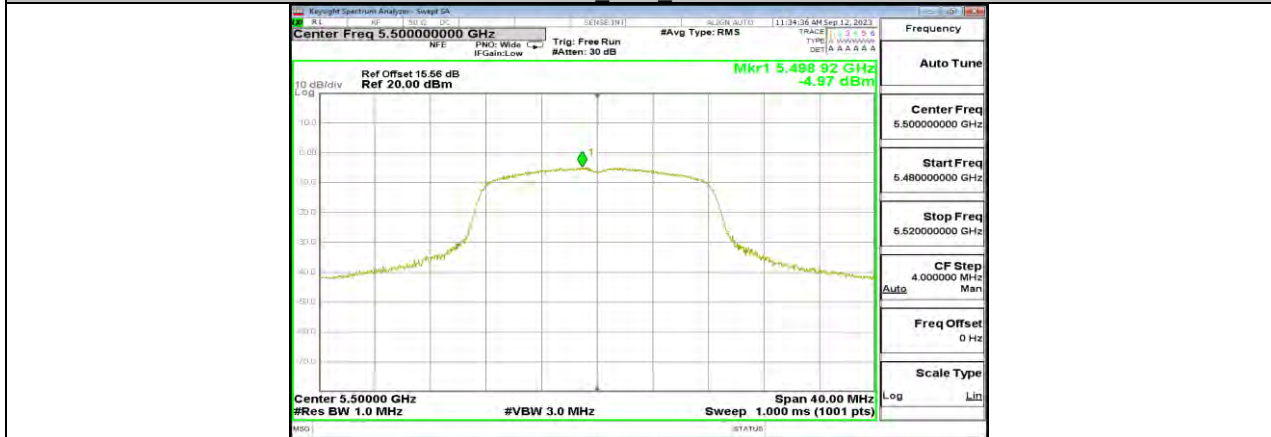
11A Ant1 5260

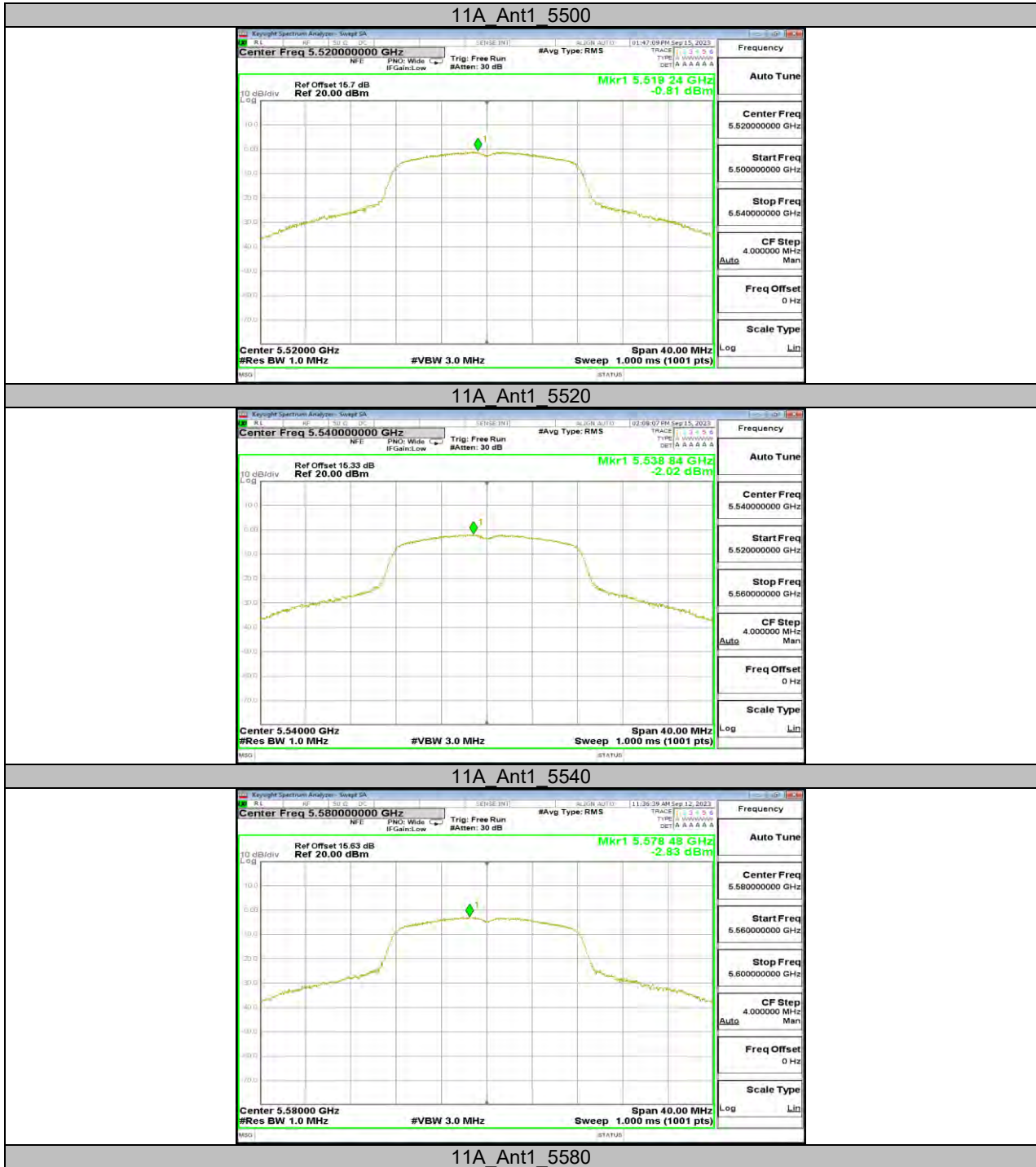


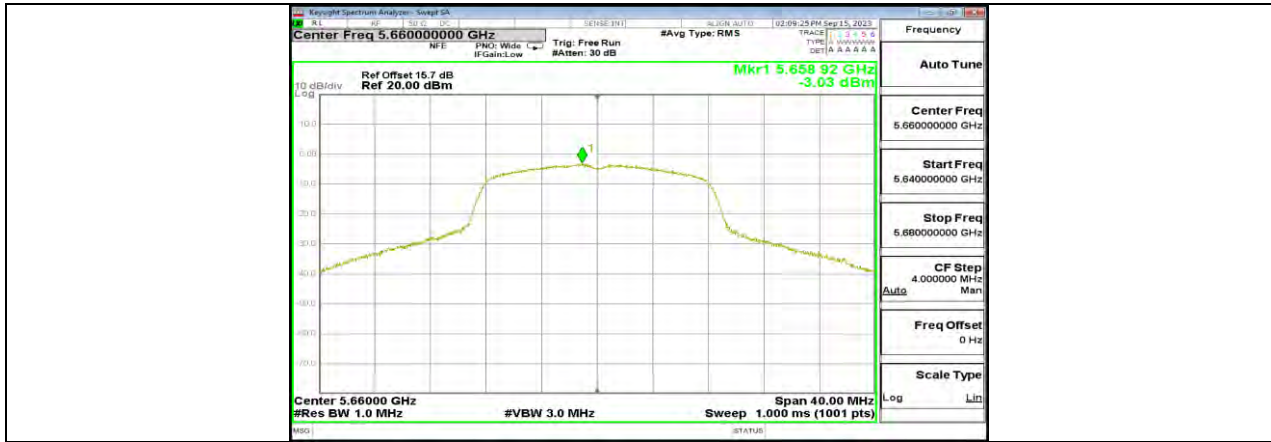
11A Ant1 5280



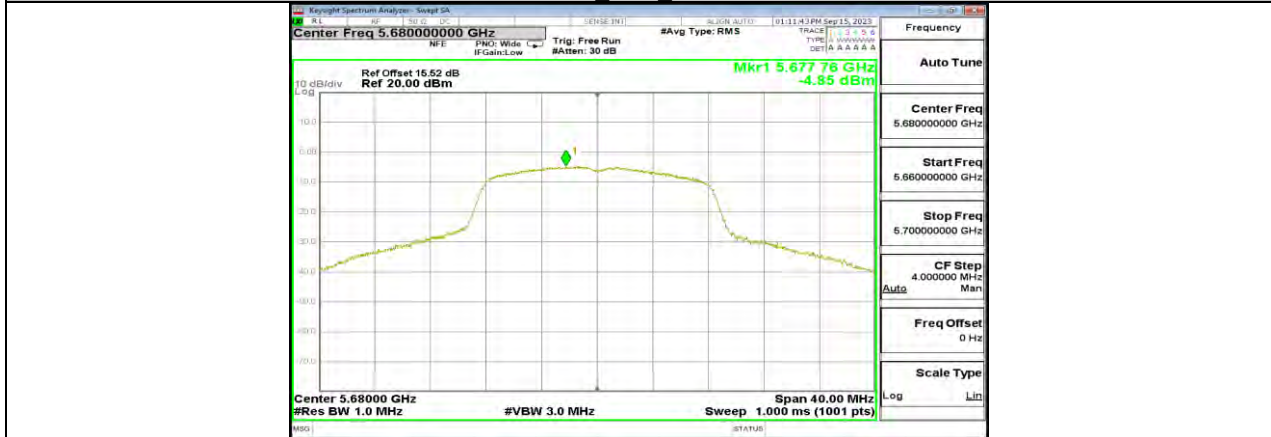
11A Ant1 5320



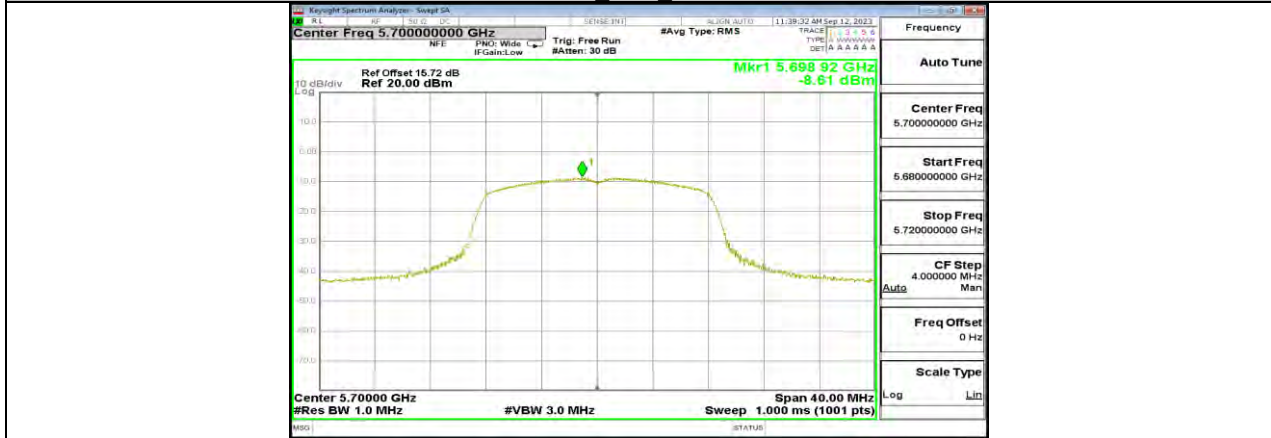




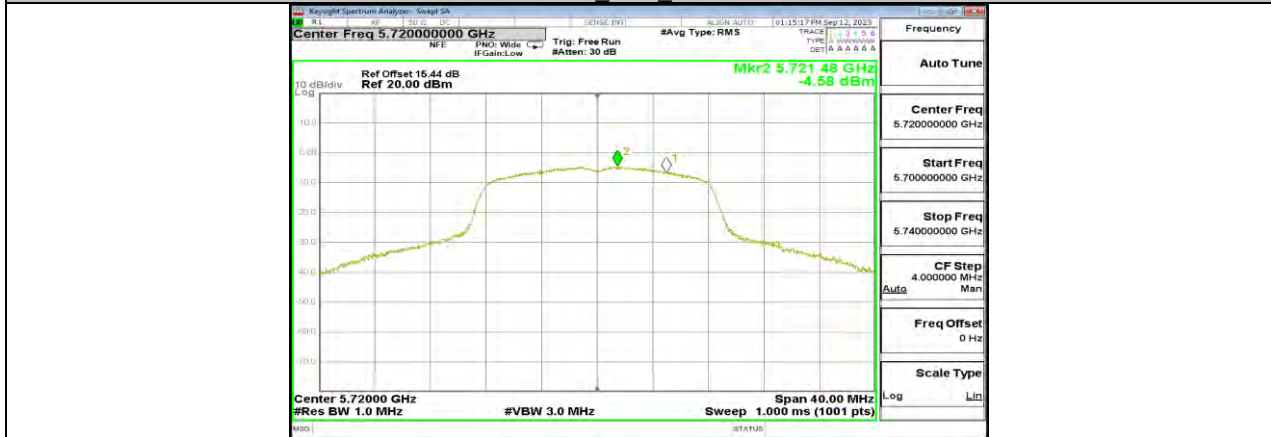
11A Ant1 5660

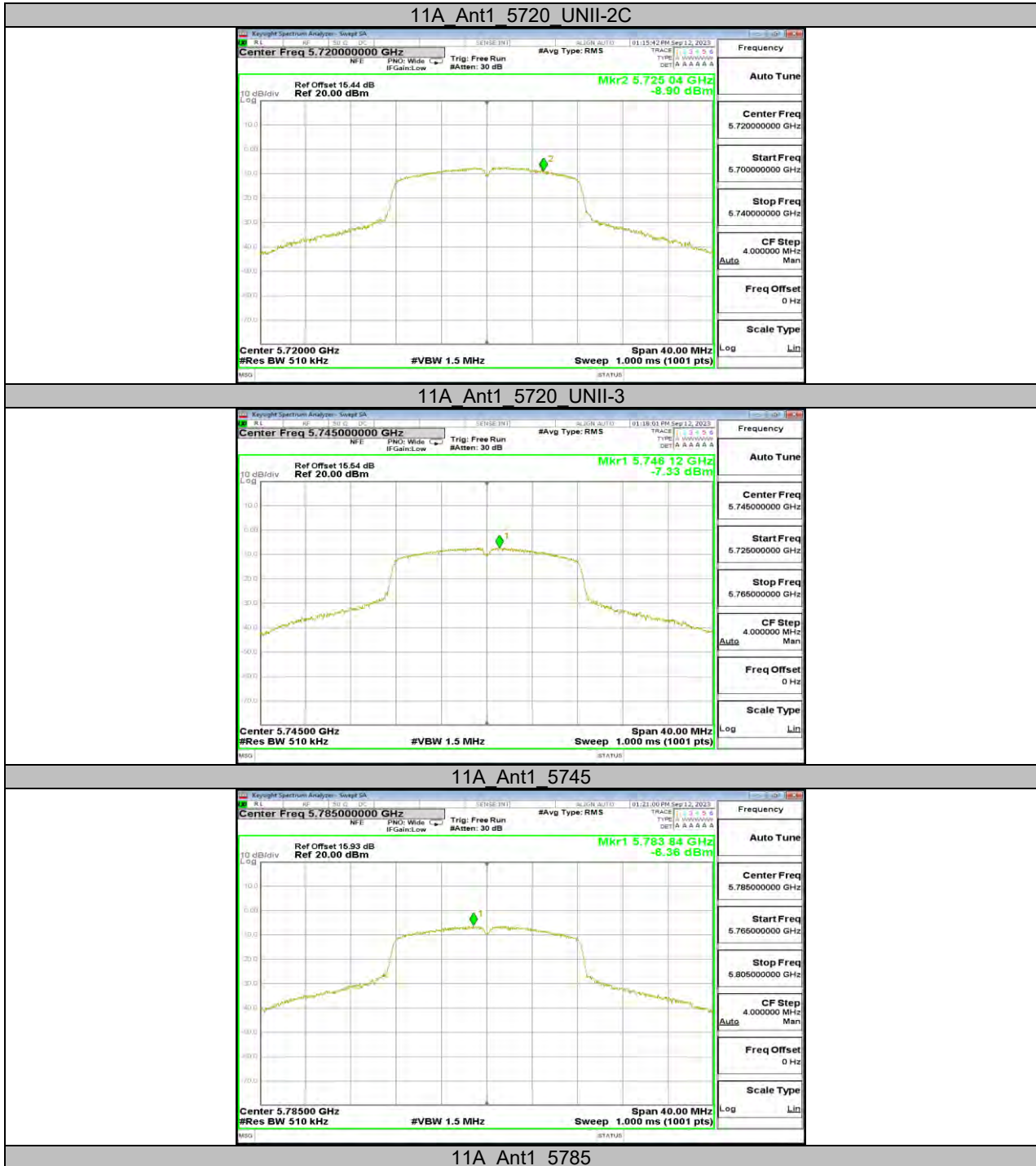


11A Ant1 5680



11A Ant1 5700



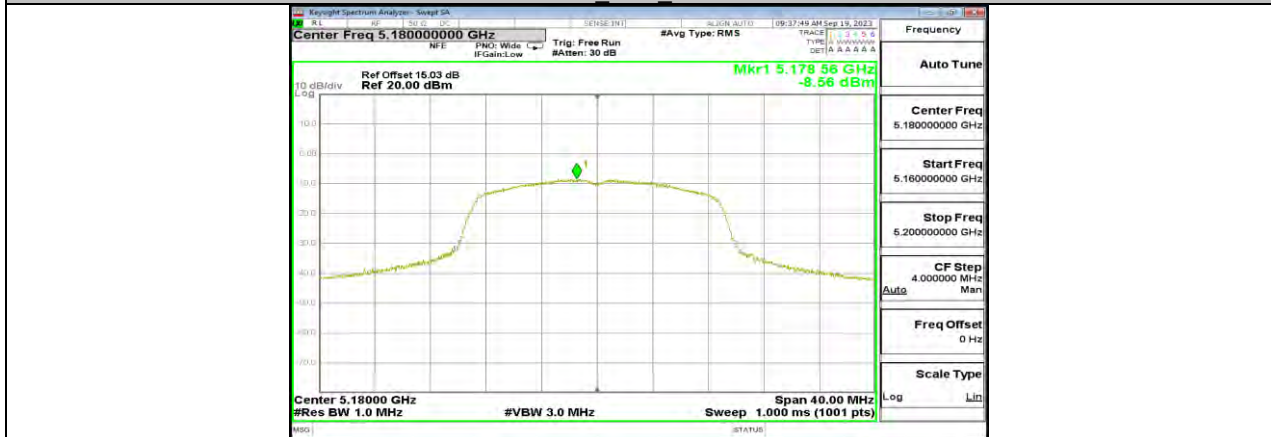




11A Ant1 5805

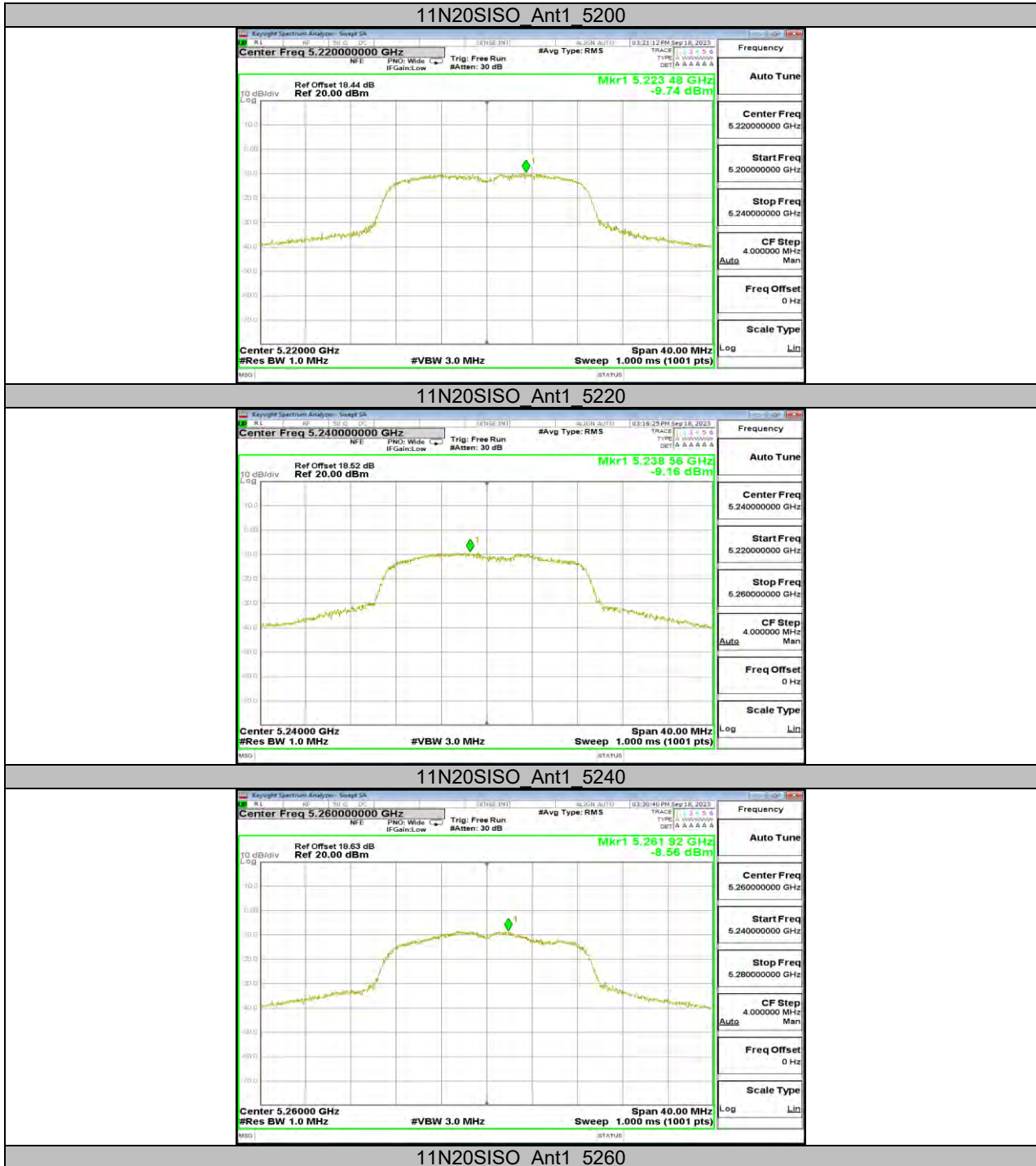


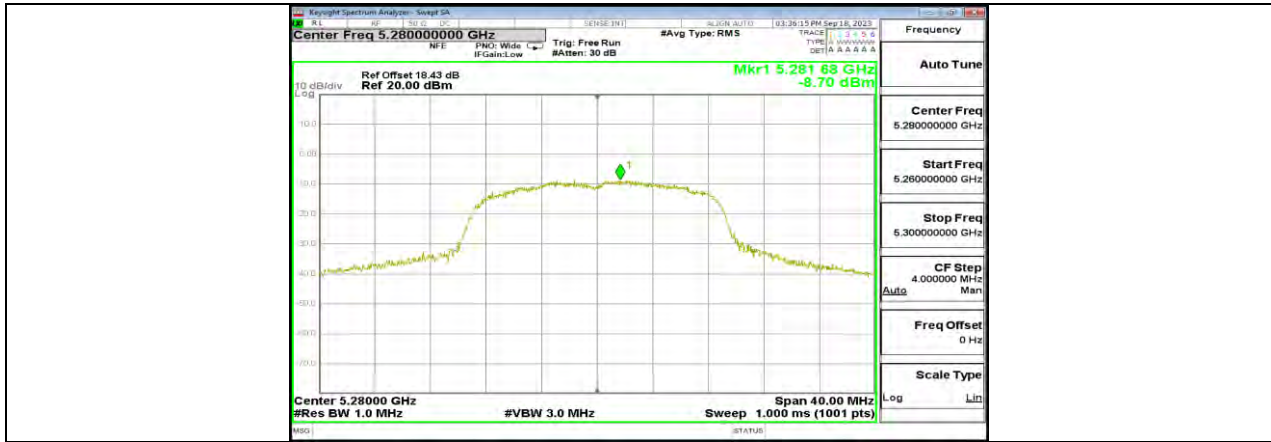
11A Ant1 5825



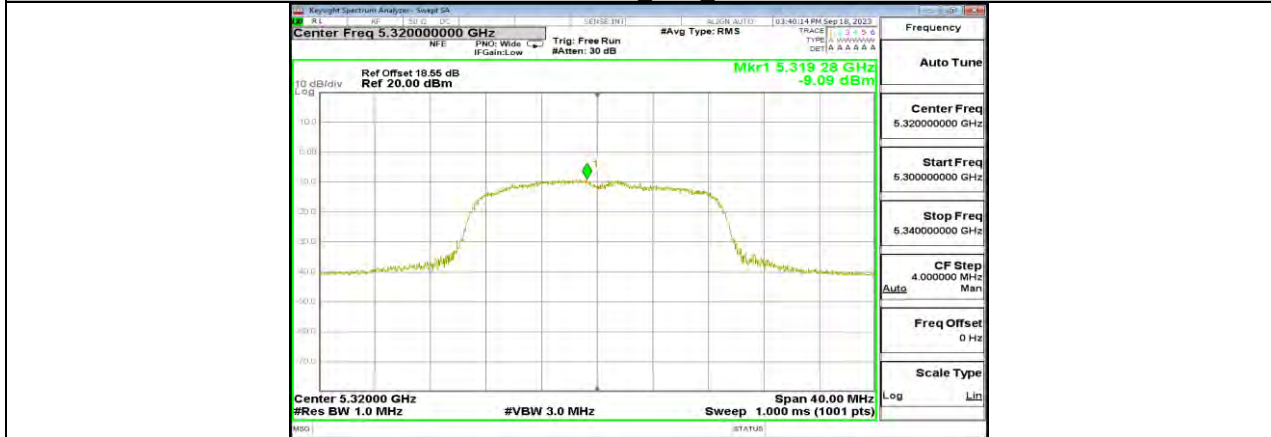
11N20SISO Ant1 5180



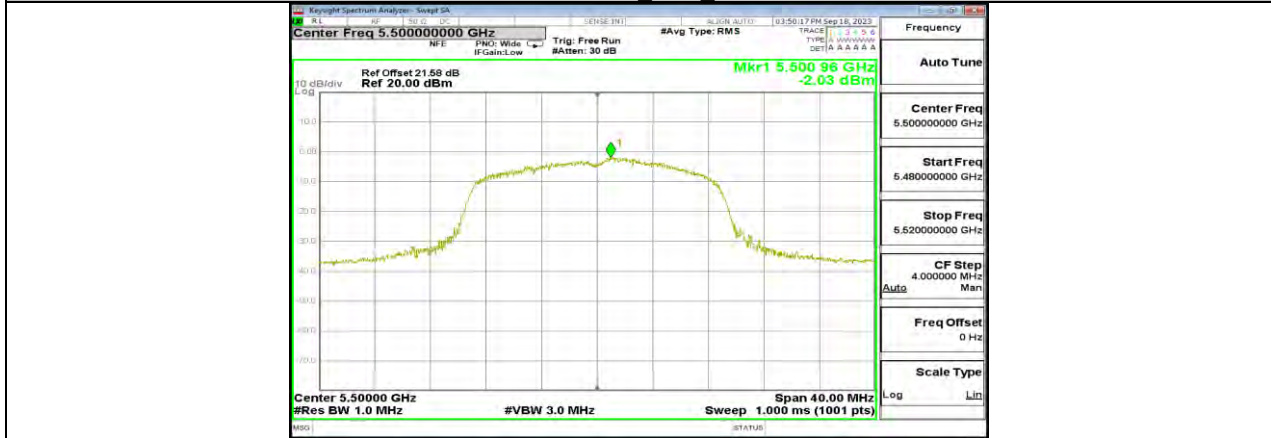




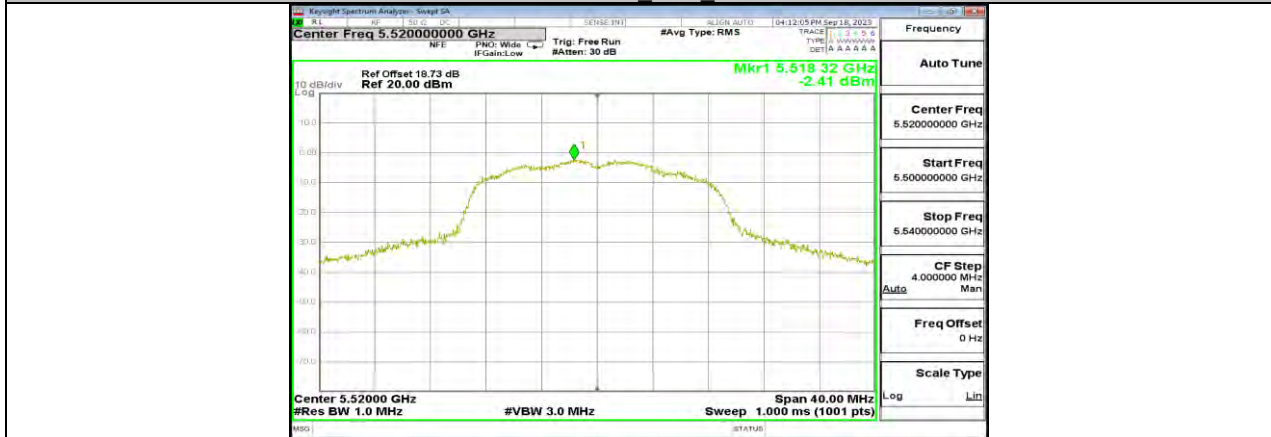
11N20SISO Ant1 5280

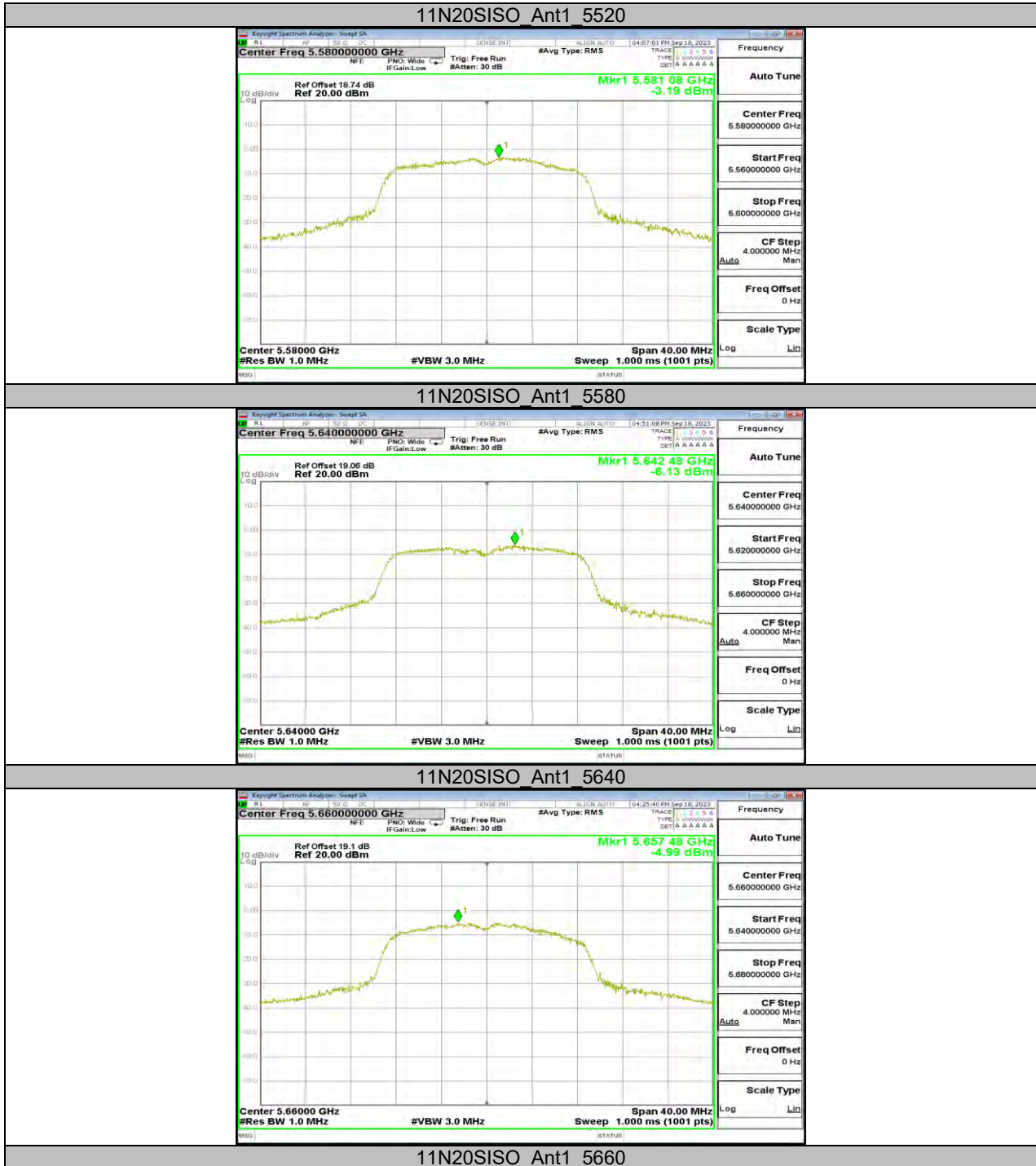


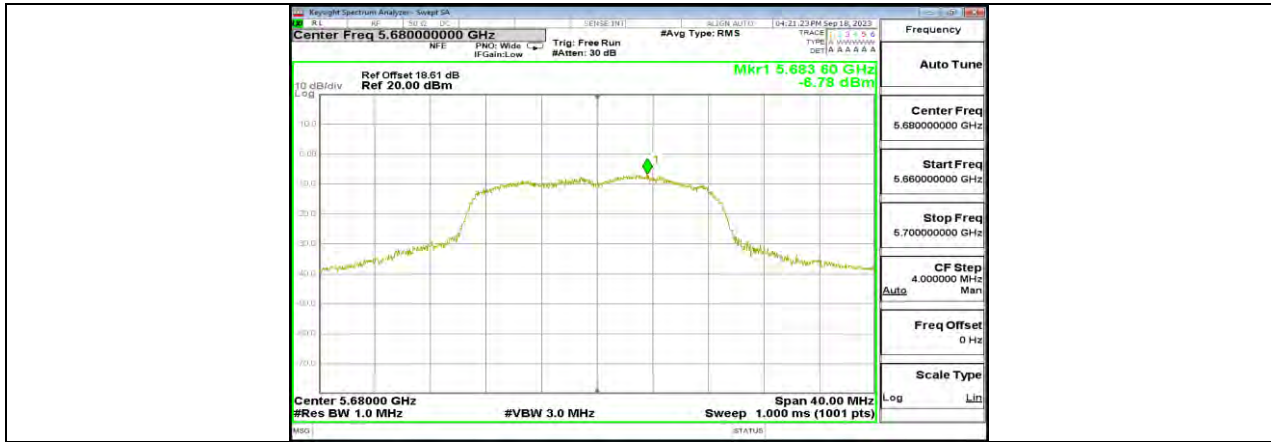
11N20SISO Ant1 5320



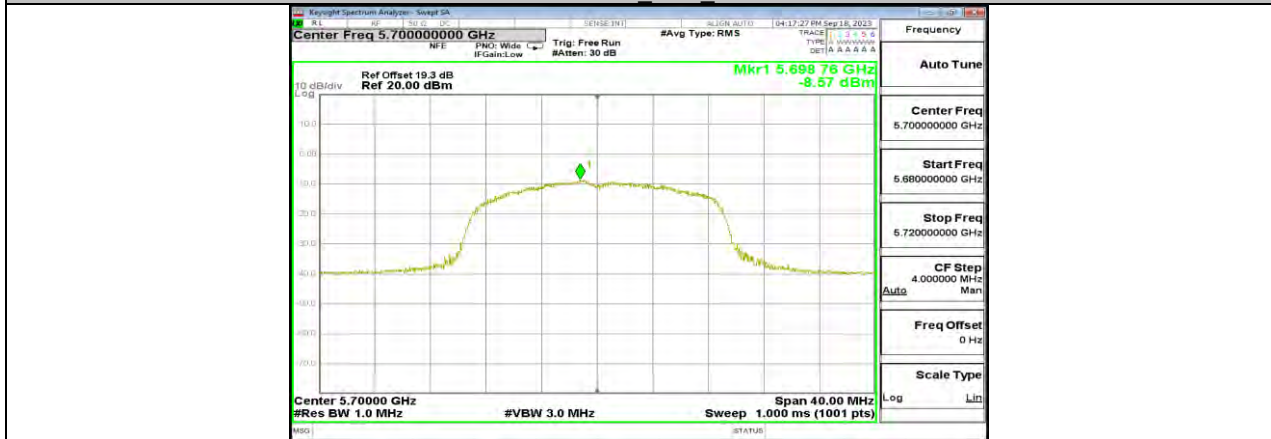
11N20SISO Ant1 5500







11N20SISO Ant1 5680

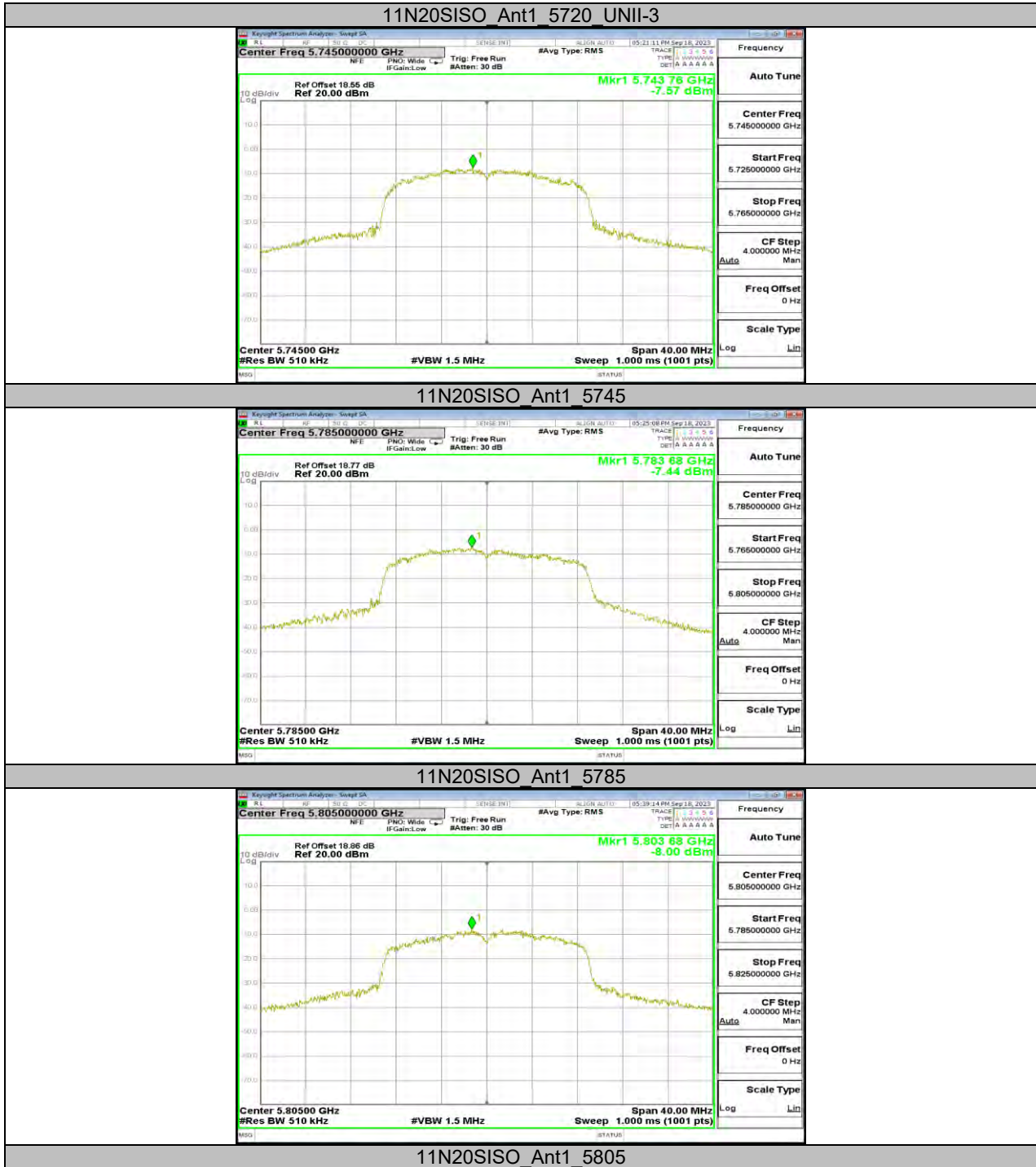


11N20SISO Ant1 5700



11N20SISO Ant1 5720 UNII-2C







11.6. APPENDIX F2: FREQUENCY STABILITY

11.6.1. Test Result

| Frequency Error vs. Voltage | | | | | | | | | |
|---------------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a: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 | 5200.0211 | 4.05 | 5199.9848 | -2.91 | 5199.9982 | -0.34 | 5200.0204 | 3.93 |
| TN | VN | 5199.9981 | -0.37 | 5200.0039 | 0.74 | 5199.9777 | -4.28 | 5199.9757 | -4.67 |
| TN | VH | 5200.0246 | 4.73 | 5199.9750 | -4.80 | 5200.0096 | 1.85 | 5200.0230 | 4.43 |
| Frequency Error vs. Temperature | | | | | | | | | |
| 802.11a: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) |
| 60 | VN | 5200.0064 | 1.23 | 5199.9910 | -1.72 | 5199.9949 | -0.98 | 5199.9951 | -0.94 |
| 50 | VN | 5200.0003 | 0.06 | 5200.0114 | 2.19 | 5199.9840 | -3.07 | 5200.0045 | 0.86 |
| 40 | VN | 5200.0127 | 2.44 | 5200.0206 | 3.96 | 5200.0142 | 2.73 | 5200.0129 | 2.49 |
| 30 | VN | 5200.0220 | 4.23 | 5199.9838 | -3.12 | 5199.9810 | -3.66 | 5200.0143 | 2.75 |
| 20 | VN | 5199.9945 | -1.06 | 5199.9835 | -3.18 | 5200.0204 | 3.93 | 5200.0020 | 0.38 |
| 10 | VN | 5200.0082 | 1.58 | 5200.0055 | 1.05 | 5199.9812 | -3.61 | 5199.9996 | -0.08 |
| 0 | VN | 5200.0163 | 3.13 | 5199.9945 | -1.05 | 5200.0220 | 4.23 | 5199.9801 | -3.82 |
| -10 | VN | 5199.9765 | -4.53 | 5199.9937 | -1.20 | 5199.9892 | -2.09 | 5200.0085 | 1.63 |
| -20 | VN | 5199.9926 | -1.42 | 5200.0117 | 2.25 | 5199.9916 | -1.62 | 5200.0226 | 4.35 |
| -30 | VN | 5199.9924 | -1.46 | 5199.9792 | -4.00 | 5199.9999 | -0.01 | 5200.0151 | 2.90 |

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

11.7. APPENDIX G2: DUTY CYCLE

11.7.1. 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) |
|-----------|----------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|-----------------------------|
| 11A | 1.36 | 1.48 | 0.9189 | 91.89 | 0.37 | 0.74 | 1 |
| 11N20SISO | 1.28 | 1.40 | 0.9143 | 91.43 | 0.39 | 0.78 | 1 |

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.

11.7.2. Test Graphs



END OF REPORT