



Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: tablet pc

Test Model: G103

Environmental Conditions

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



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E.1 Emission Bandwidth

Test Result

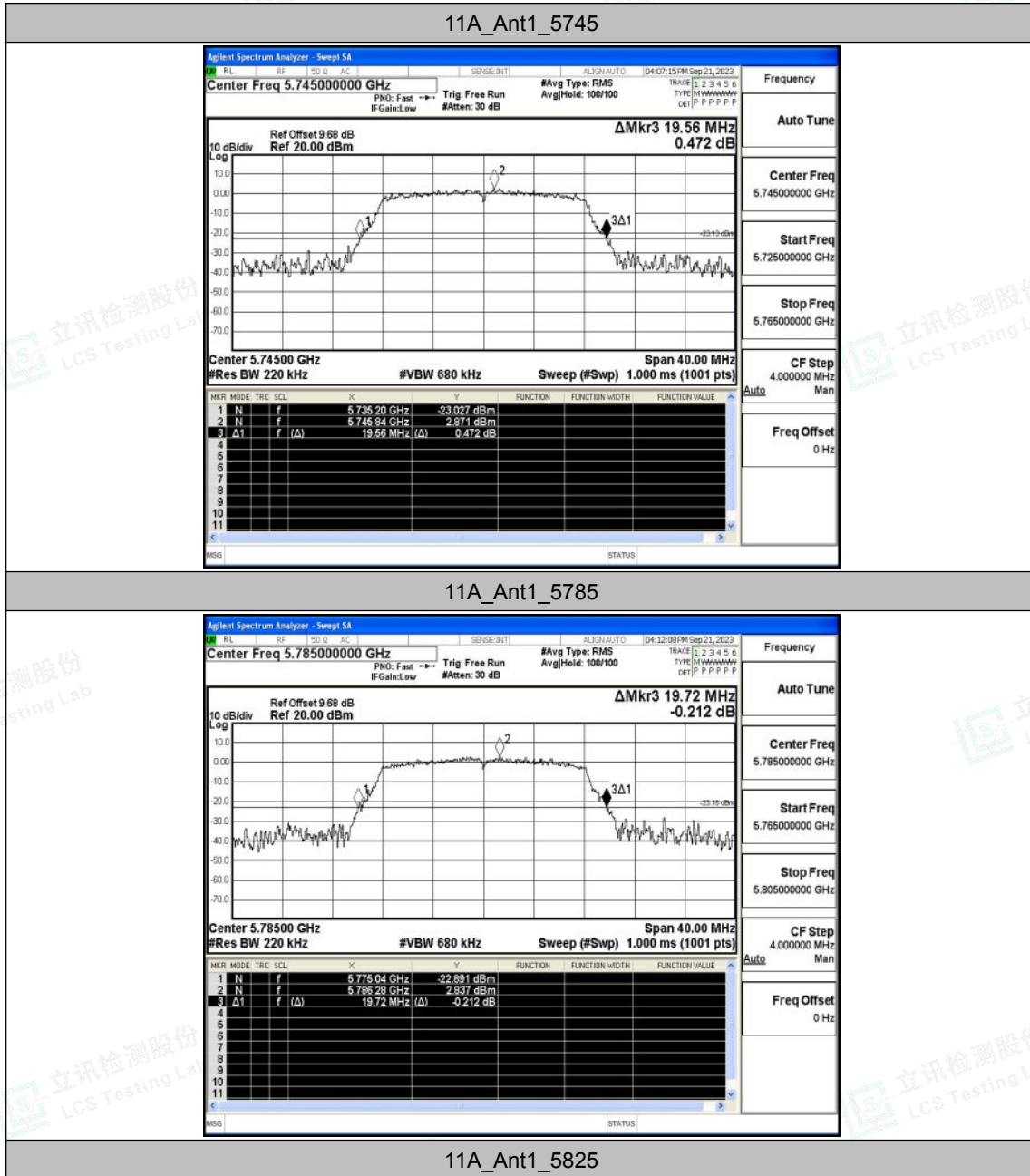
| TestMode | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------------|----------|----------|------------|---------|
| 11A | Ant1 | 5745 | 19.560 | 5735.200 | 5754.760 | --- | PASS |
| | | 5785 | 19.720 | 5775.040 | 5794.760 | --- | PASS |
| | | 5825 | 19.920 | 5815.000 | 5834.920 | --- | PASS |
| 11N20SISO | Ant1 | 5745 | 20.000 | 5735.000 | 5755.000 | --- | PASS |
| | | 5785 | 20.080 | 5774.880 | 5794.960 | --- | PASS |
| | | 5825 | 20.400 | 5814.800 | 5835.200 | --- | PASS |
| 11N40SISO | Ant1 | 5755 | 40.320 | 5735.000 | 5775.320 | --- | PASS |
| | | 5795 | 40.240 | 5775.080 | 5815.320 | --- | PASS |
| 11AC20SISO | Ant1 | 5745 | 20.240 | 5734.960 | 5755.200 | --- | PASS |
| | | 5785 | 20.200 | 5774.960 | 5795.160 | --- | PASS |
| | | 5825 | 19.960 | 5815.000 | 5834.960 | --- | PASS |
| 11AC40SISO | Ant1 | 5755 | 40.640 | 5734.840 | 5775.480 | --- | PASS |
| | | 5795 | 40.080 | 5774.920 | 5815.000 | --- | PASS |
| 11AC80SISO | Ant1 | 5775 | 80.320 | 5735.000 | 5815.320 | --- | PASS |



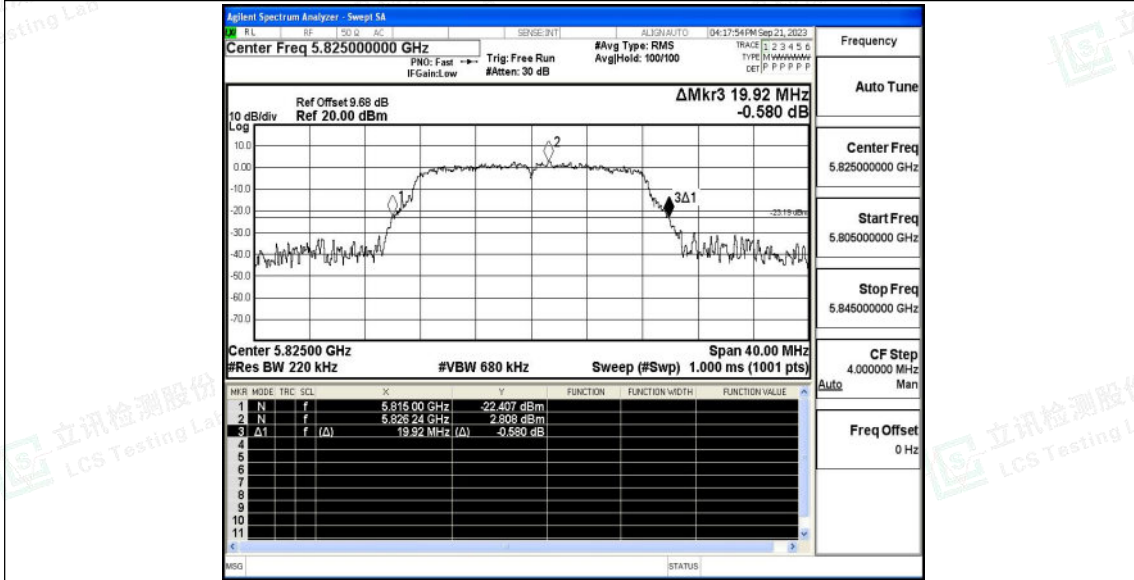
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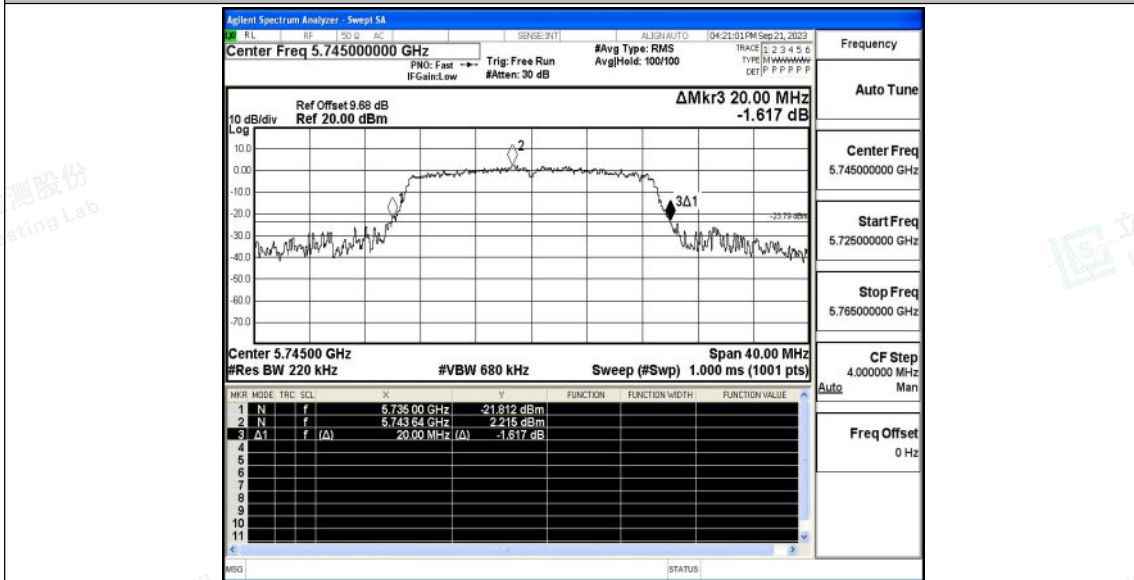
Test Graphs



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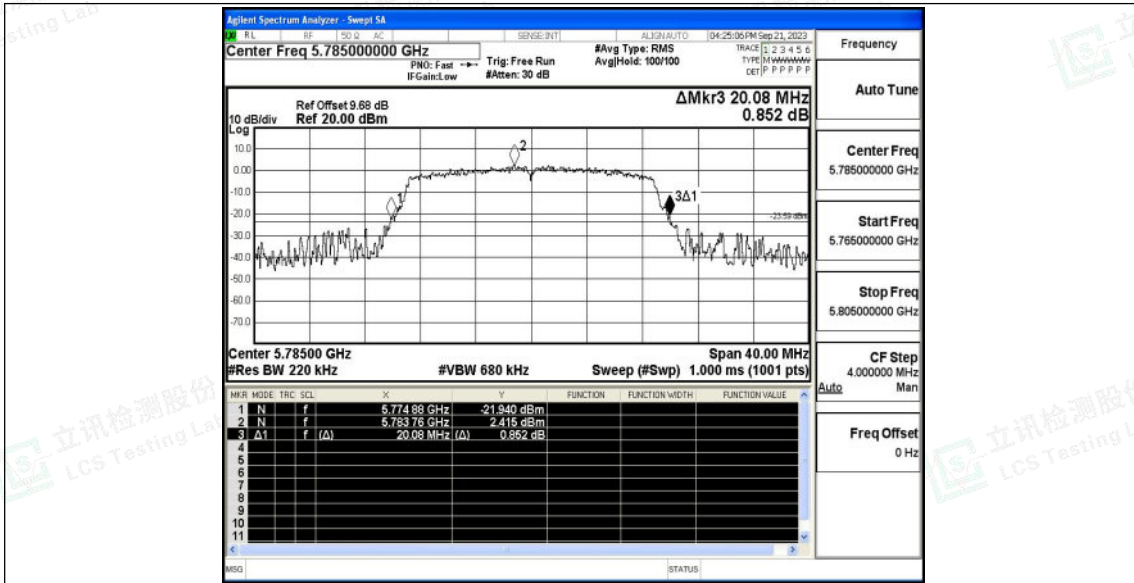
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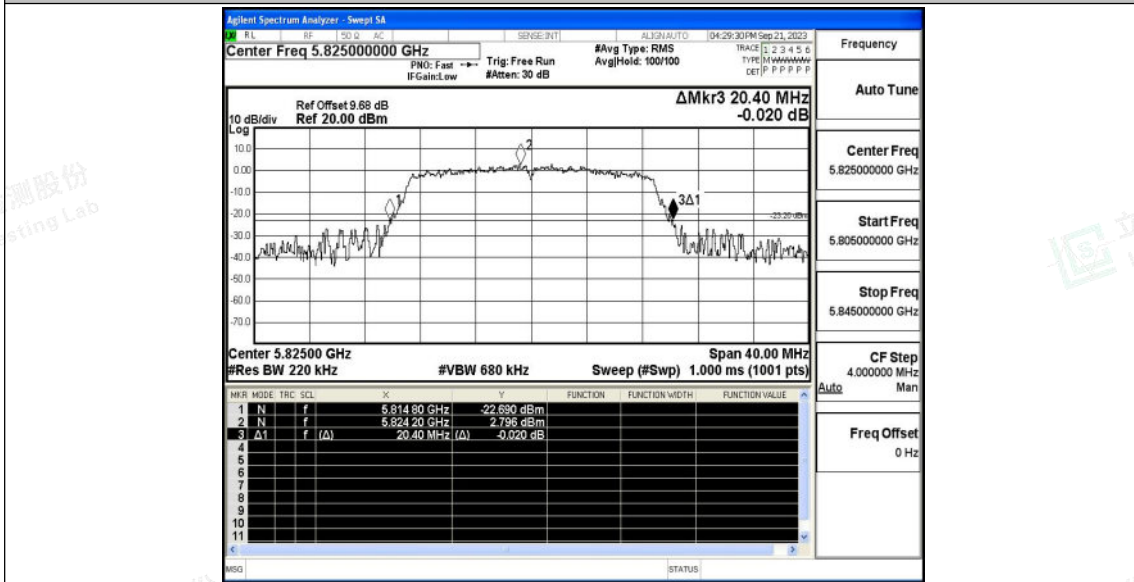
11N20SISO_Ant1_5785



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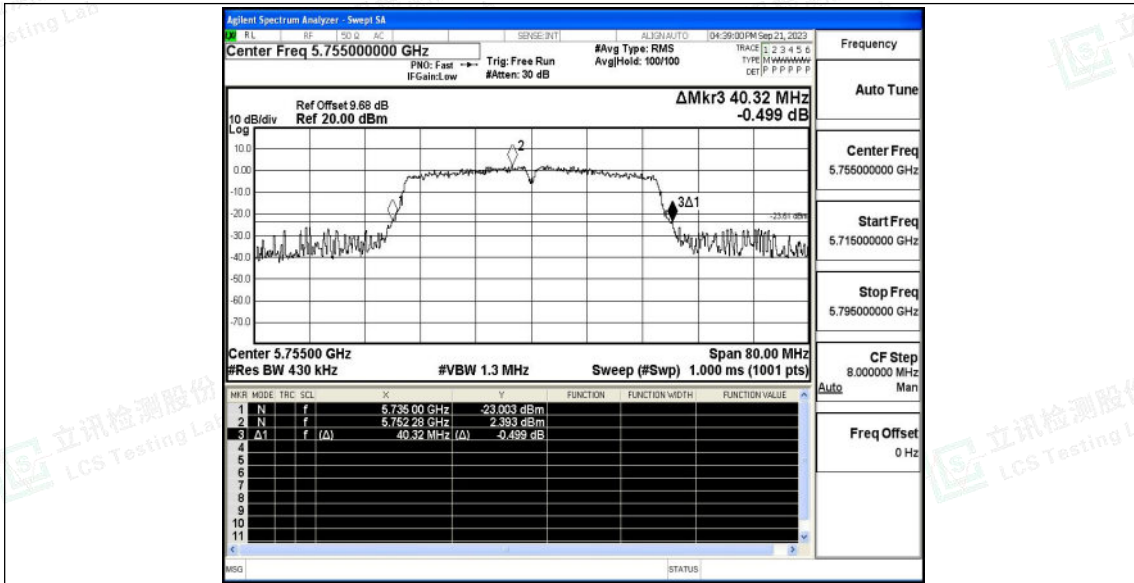
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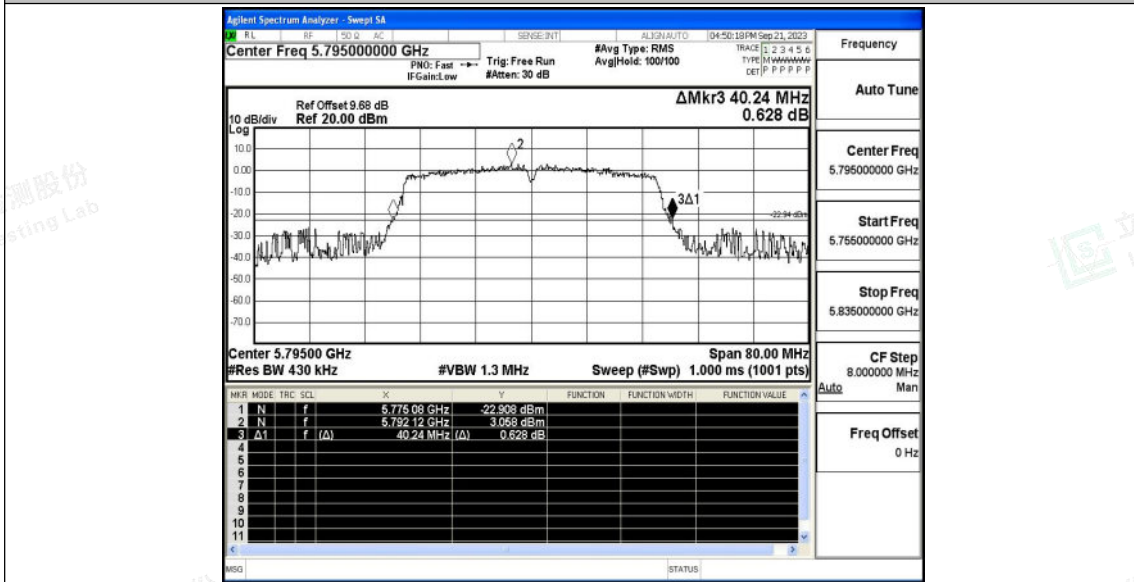
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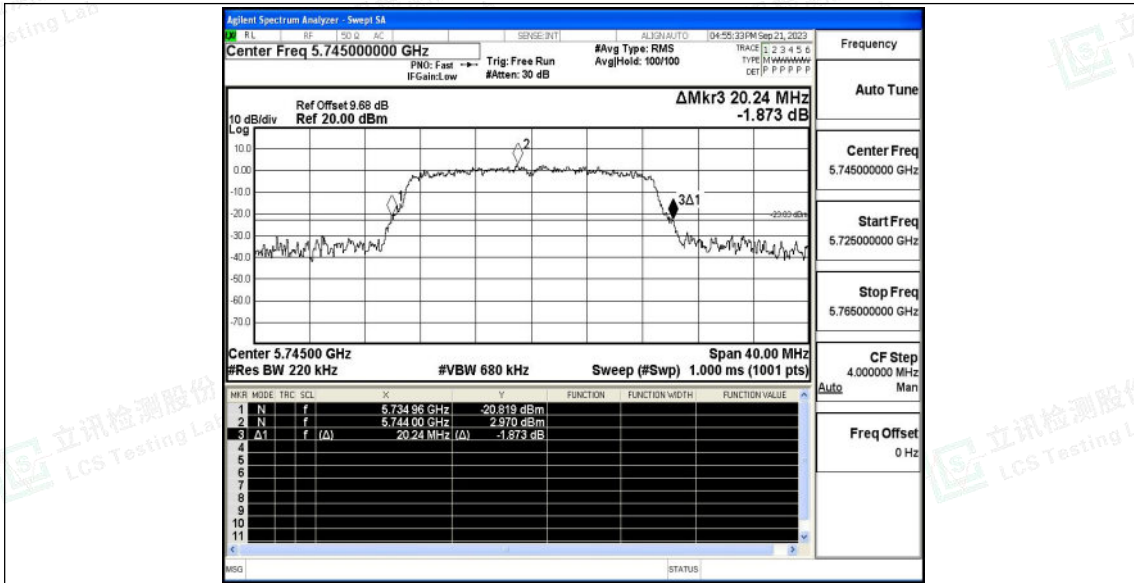
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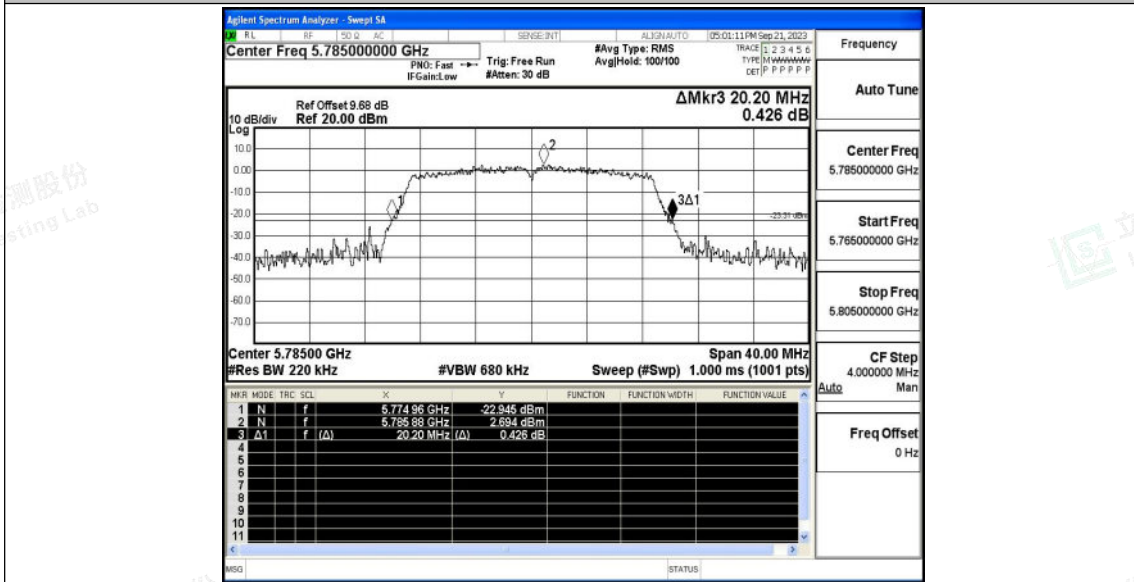
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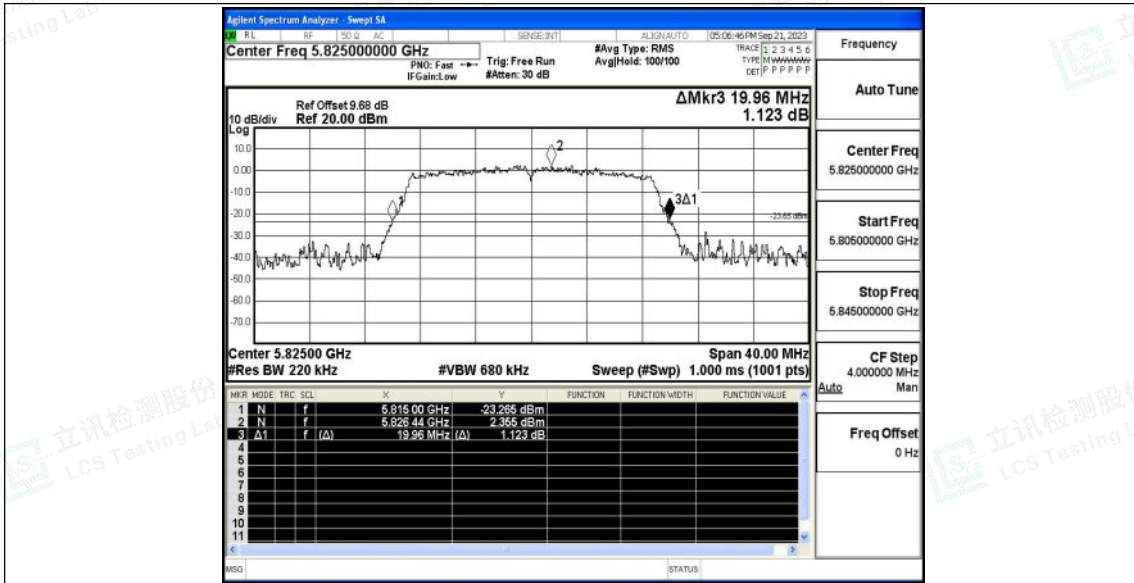
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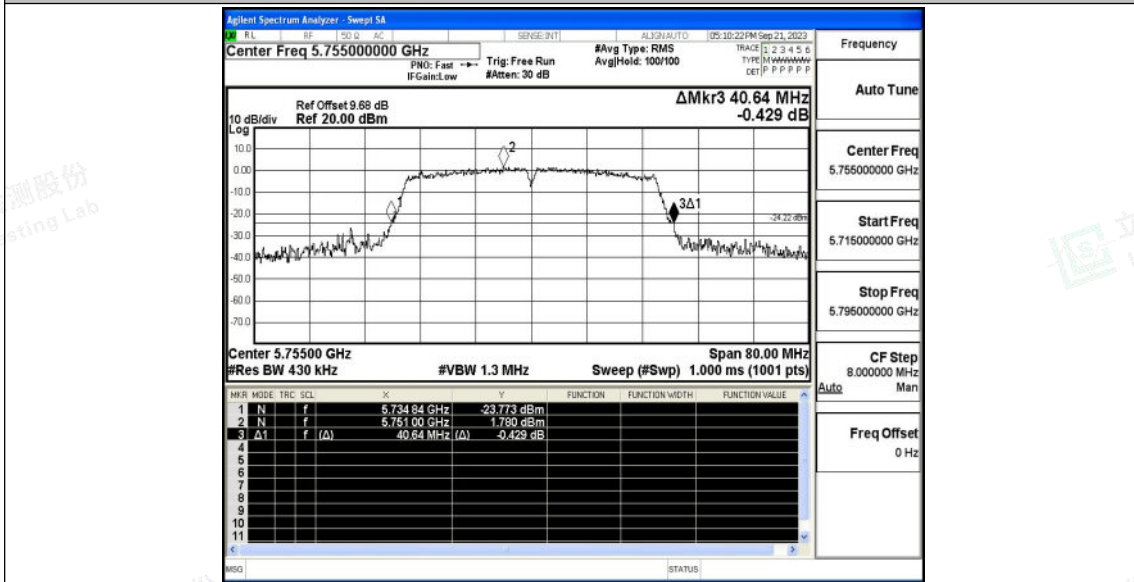
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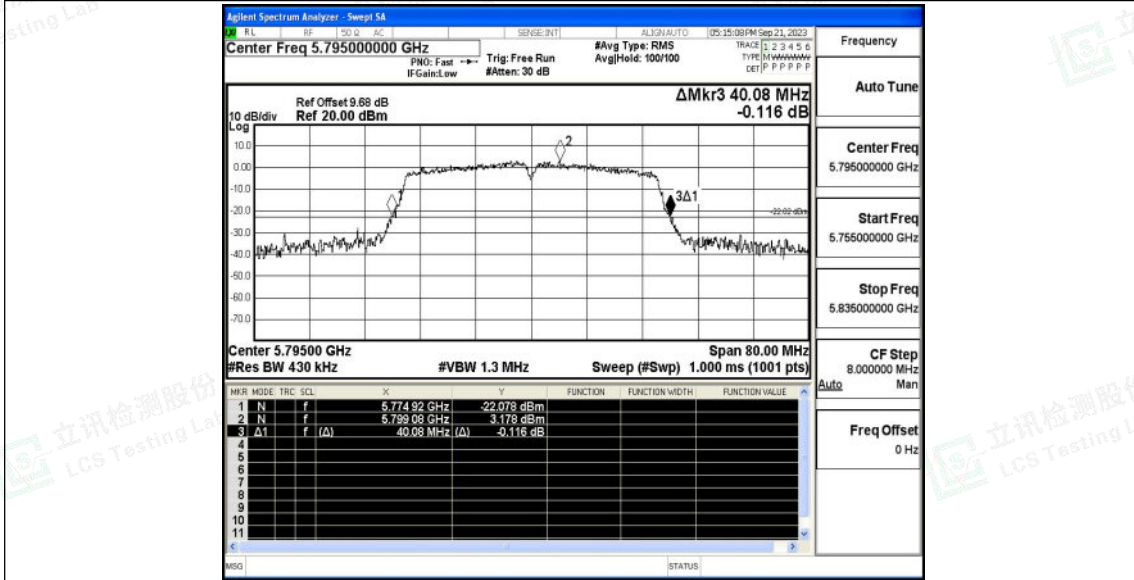
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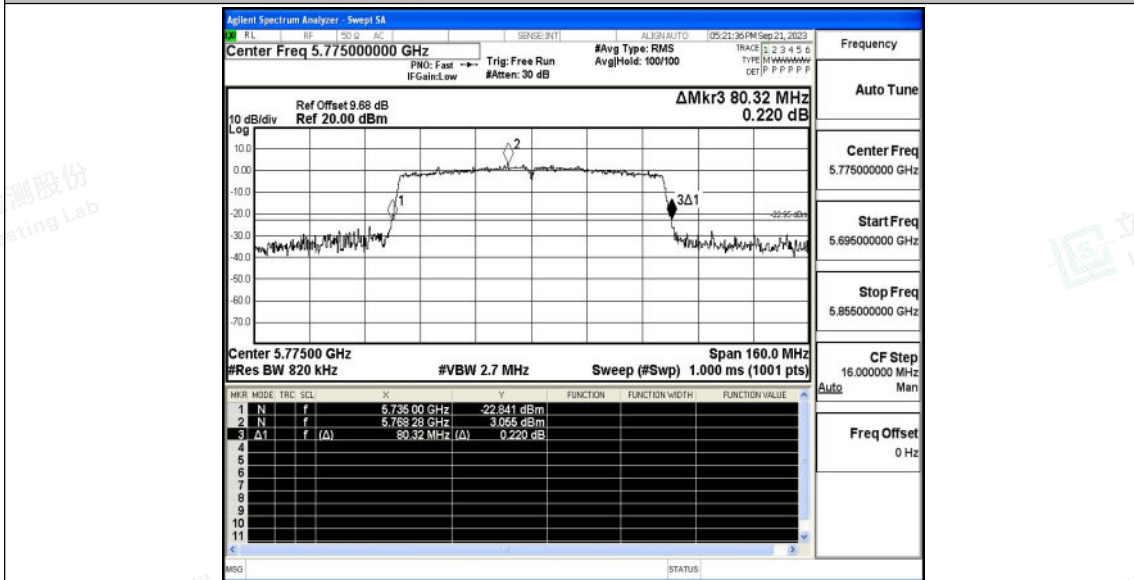
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11AC80SISO_Ant1_5775



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E.2 Maximum conducted output power

Test Result

| Test Mode | Antenna | Frequency[MHz] | Power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|-------------|----------------|-----------------|--------------|-------------|---------|
| 11A | Ant1 | 5745 | 12.20 | 96.53 | 0.15 | 12.35 | ≤30.00 | PASS |
| | | 5785 | 12.36 | 97.20 | 0.12 | 12.48 | ≤30.00 | PASS |
| | | 5825 | 12.21 | 96.53 | 0.15 | 12.36 | ≤30.00 | PASS |
| 11N20SISO | Ant1 | 5745 | 11.98 | 96.24 | 0.17 | 12.15 | ≤30.00 | PASS |
| | | 5785 | 12.06 | 96.24 | 0.17 | 12.23 | ≤30.00 | PASS |
| | | 5825 | 12.32 | 96.99 | 0.13 | 12.45 | ≤30.00 | PASS |
| 11N40SISO | Ant1 | 5755 | 11.88 | 94.12 | 0.26 | 12.14 | ≤30.00 | PASS |
| | | 5795 | 12.07 | 94.12 | 0.26 | 12.33 | ≤30.00 | PASS |
| 11AC20SISO | Ant1 | 5745 | 12.10 | 97.04 | 0.13 | 12.23 | ≤30.00 | PASS |
| | | 5785 | 12.15 | 96.32 | 0.16 | 12.31 | ≤30.00 | PASS |
| | | 5825 | 11.84 | 96.32 | 0.16 | 12.00 | ≤30.00 | PASS |
| 11AC40SISO | Ant1 | 5755 | 11.73 | 94.20 | 0.26 | 11.99 | ≤30.00 | PASS |
| | | 5795 | 11.93 | 94.20 | 0.26 | 12.19 | ≤30.00 | PASS |
| 11AC80SISO | Ant1 | 5775 | 11.42 | 86.49 | 0.63 | 12.05 | ≤30.00 | PASS |

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



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E.3 Maximum power spectral density

Test Result

| TestMode | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------------------|----------------|---------|
| 11A | Ant1 | 5745 | -0.78 | ≤30.00 | PASS |
| | | 5785 | -0.8 | ≤30.00 | PASS |
| | | 5825 | -0.8 | ≤30.00 | PASS |
| 11N20SISO | Ant1 | 5745 | -1.26 | ≤30.00 | PASS |
| | | 5785 | -1.1 | ≤30.00 | PASS |
| | | 5825 | -0.88 | ≤30.00 | PASS |
| 11N40SISO | Ant1 | 5755 | -4 | ≤30.00 | PASS |
| | | 5795 | -3.97 | ≤30.00 | PASS |
| 11AC20SISO | Ant1 | 5745 | -1.21 | ≤30.00 | PASS |
| | | 5785 | -1.05 | ≤30.00 | PASS |
| | | 5825 | -1.35 | ≤30.00 | PASS |
| 11AC40SISO | Ant1 | 5755 | -4.25 | ≤30.00 | PASS |
| | | 5795 | -4.07 | ≤30.00 | PASS |
| 11AC80SISO | Ant1 | 5775 | -7.52 | ≤30.00 | PASS |

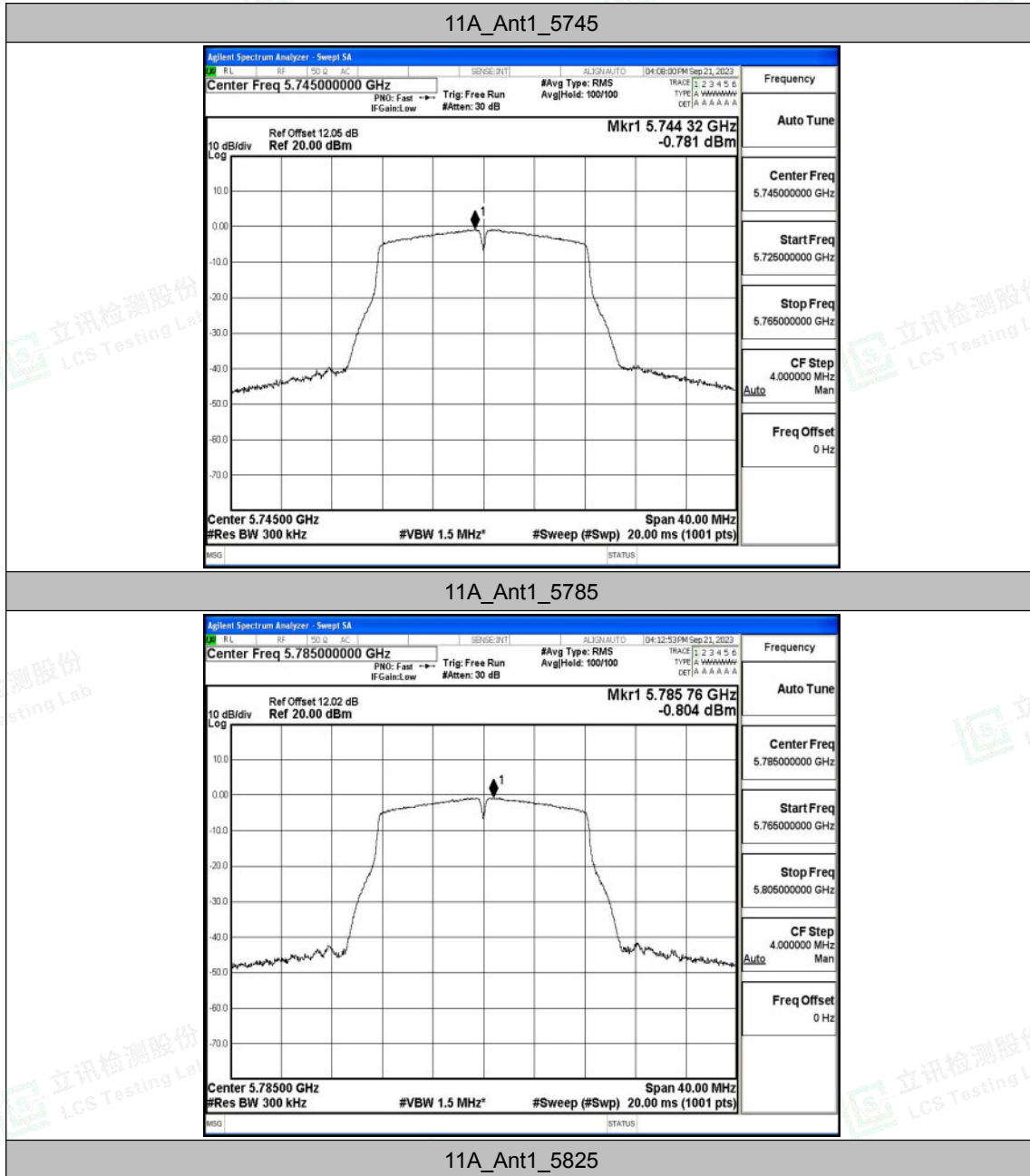
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



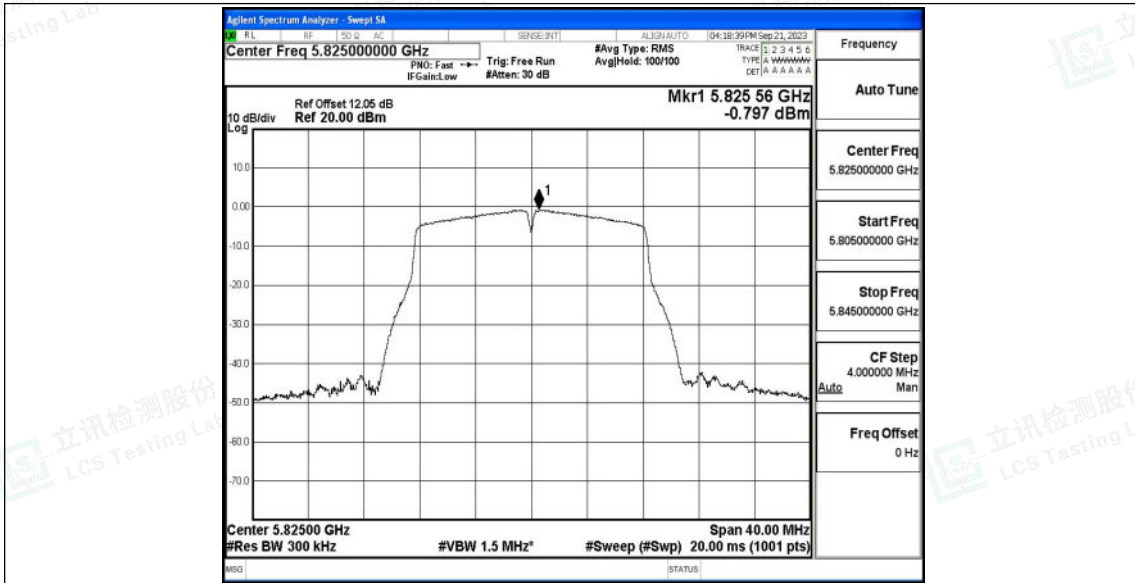
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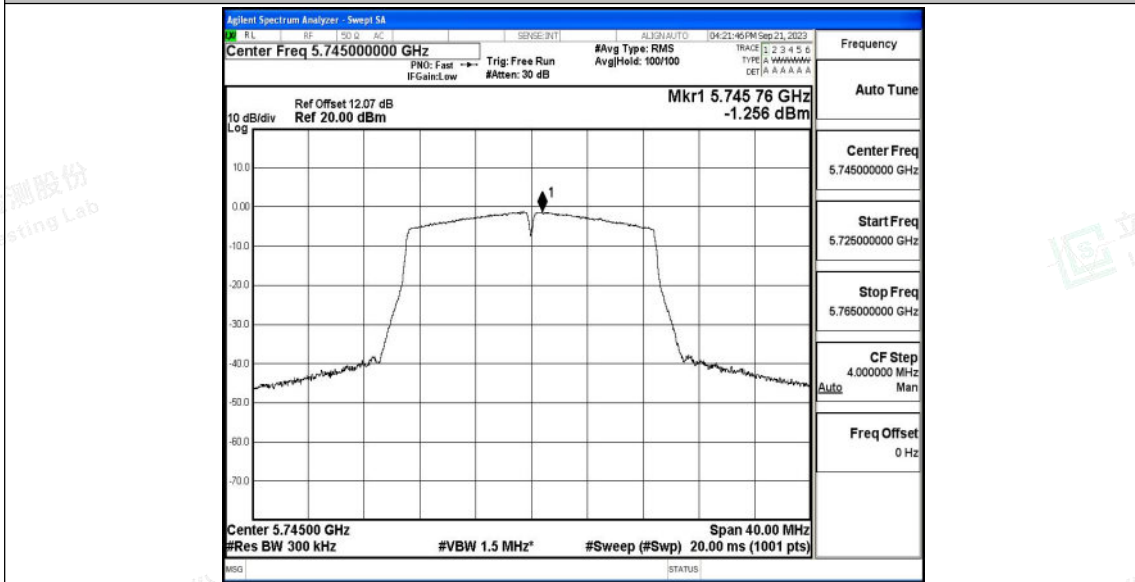
Test Graphs



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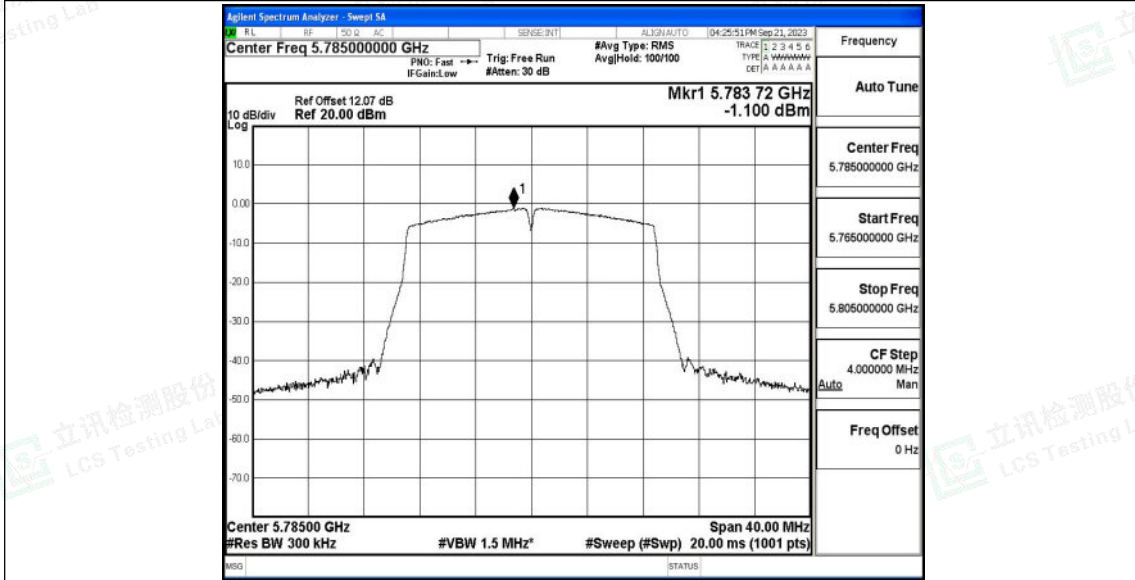
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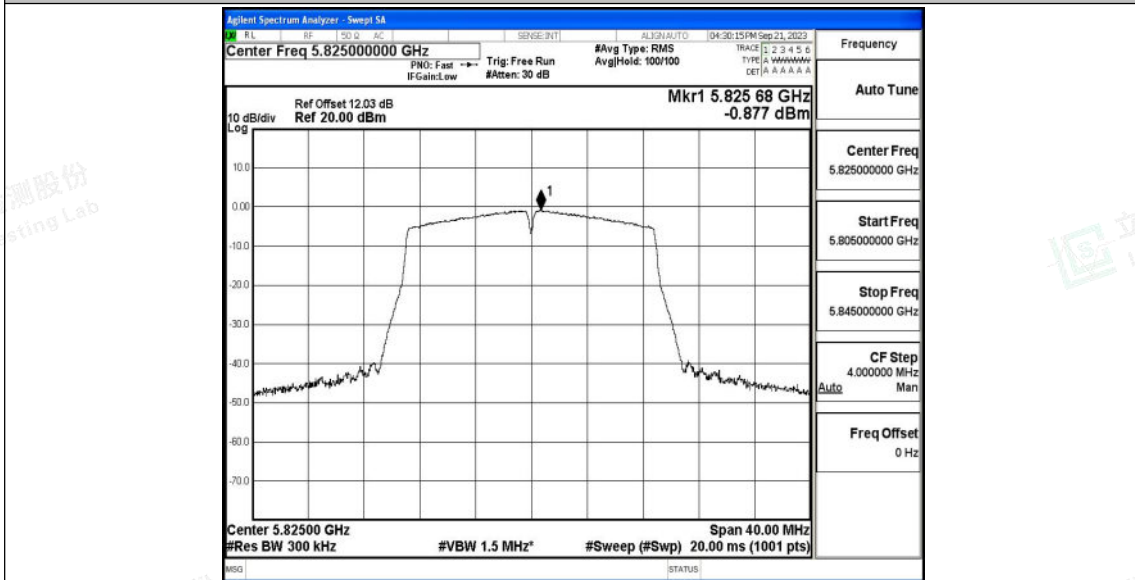
11N20SISO_Ant1_5785



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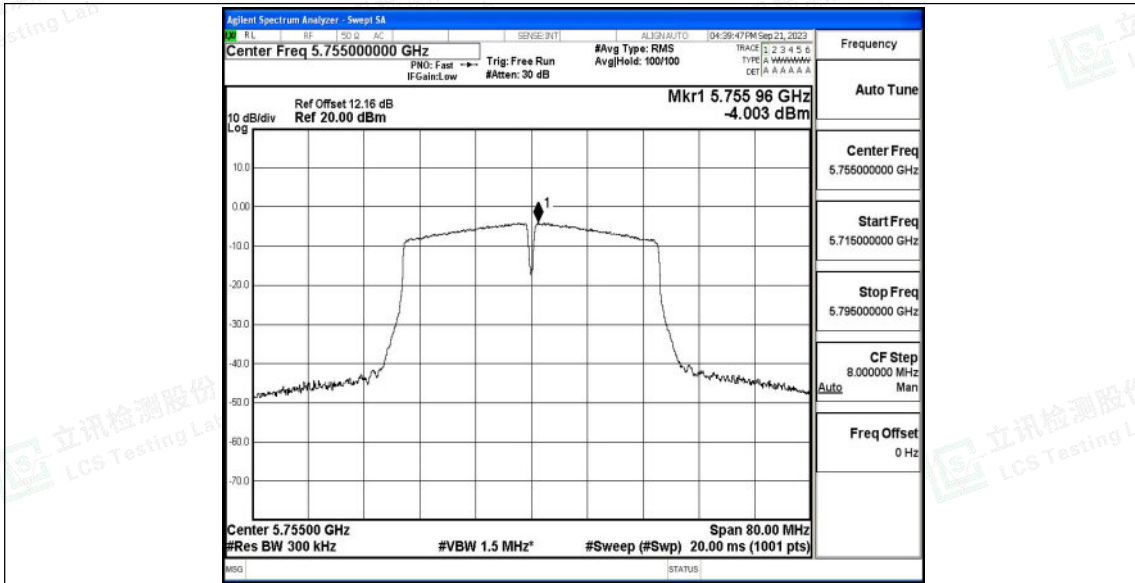
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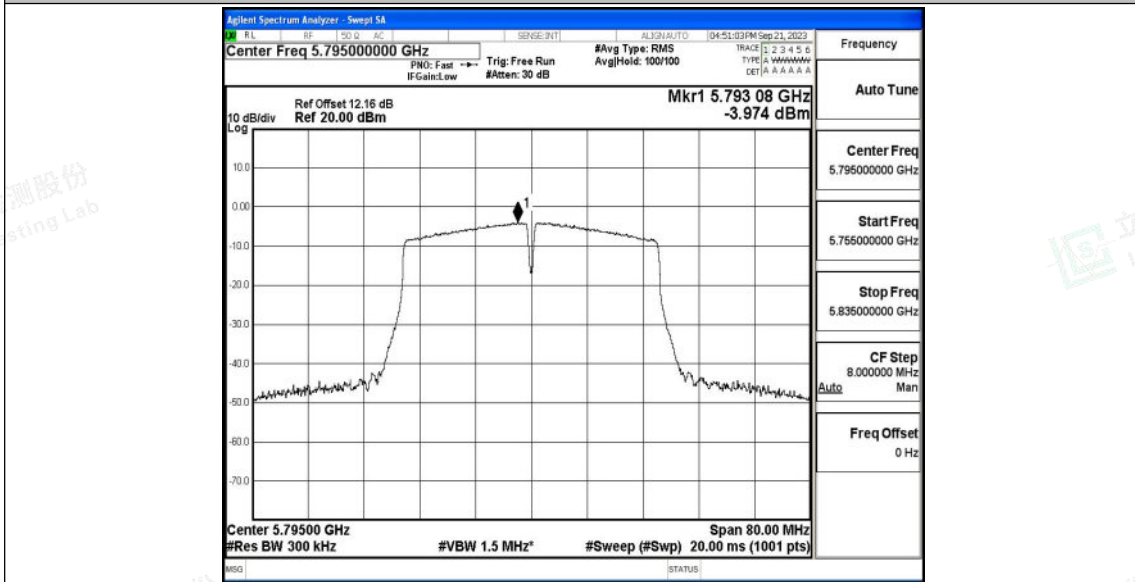
11N40SISO_Ant1_5755



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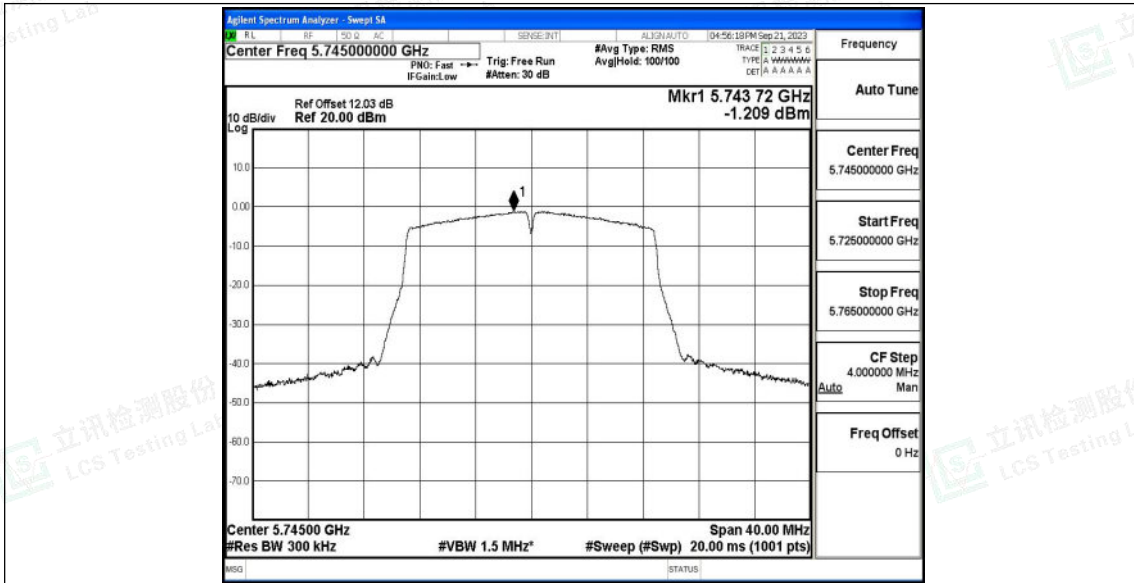
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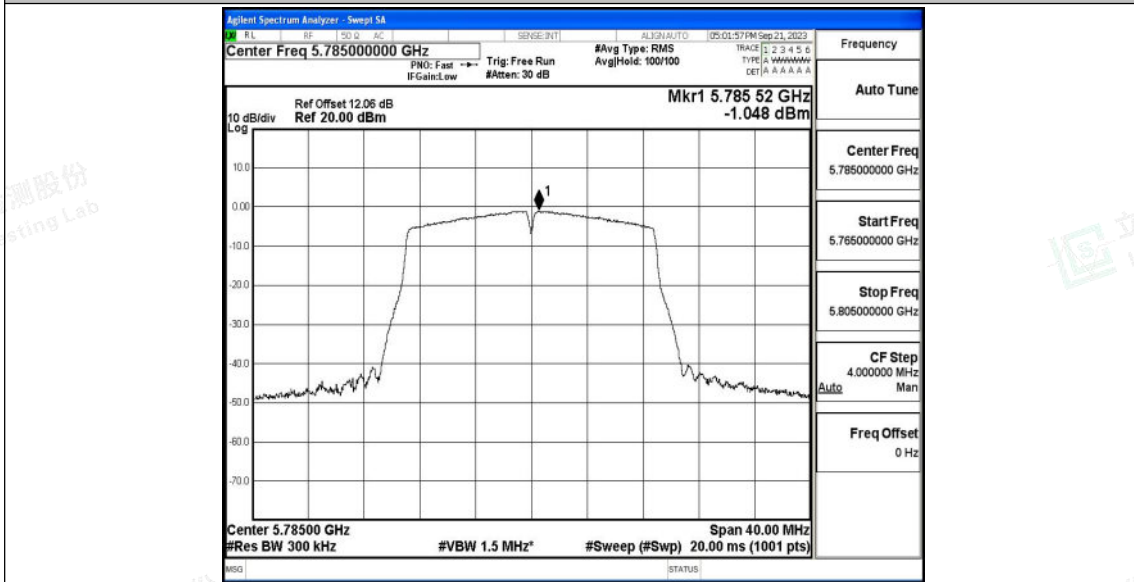
11AC20SISO_Ant1_5745



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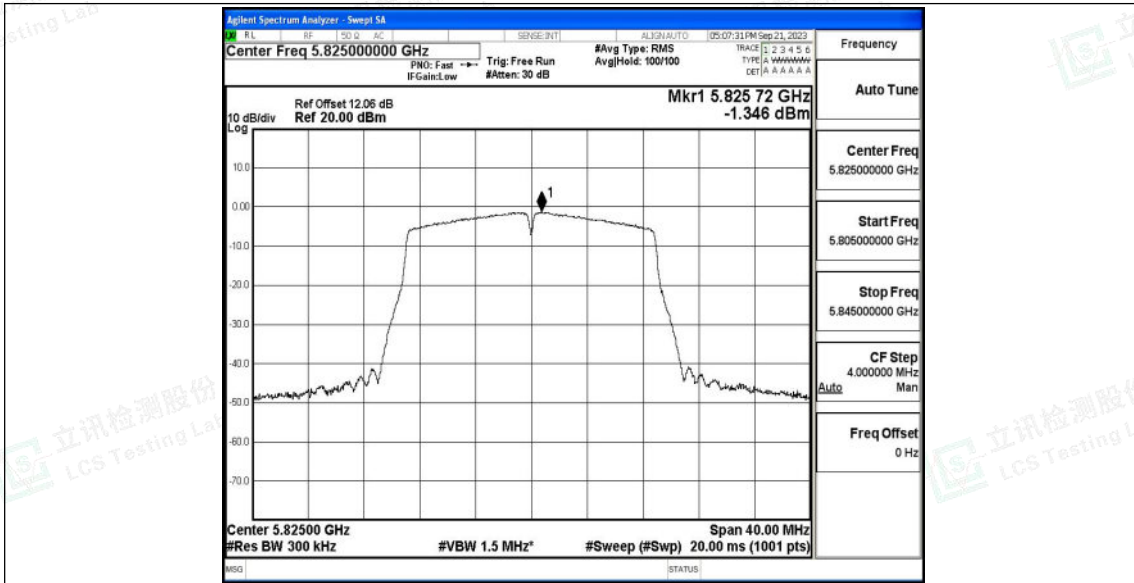


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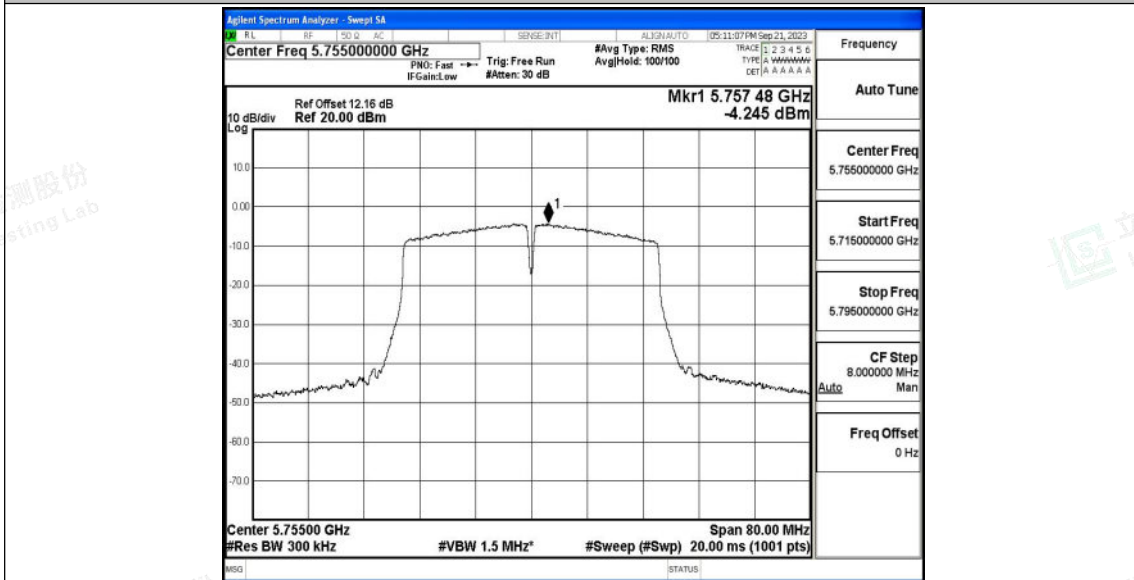


11AC20SISO_Ant1_5825





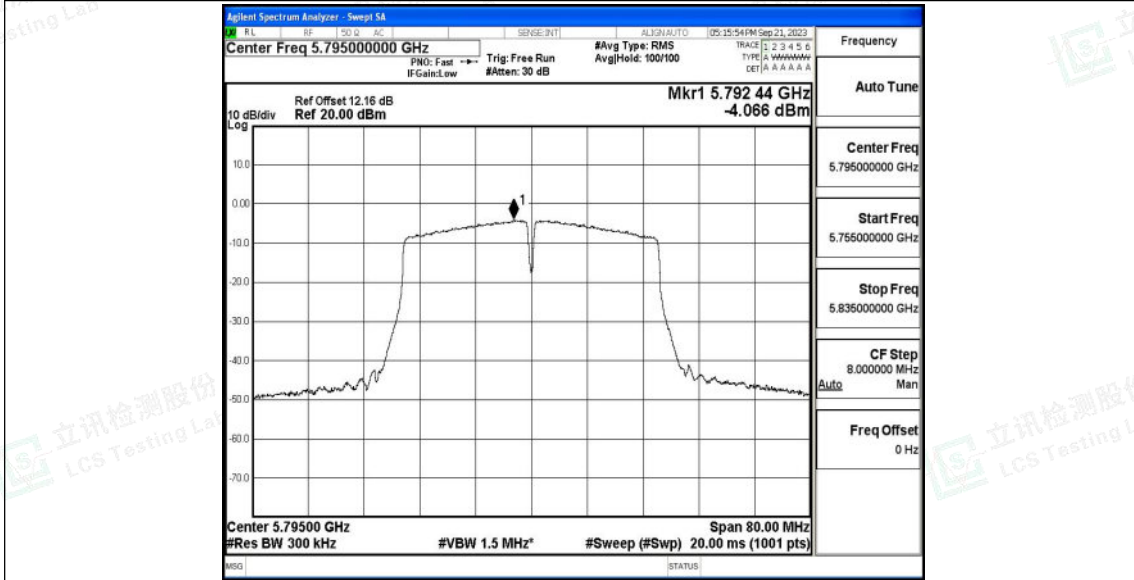
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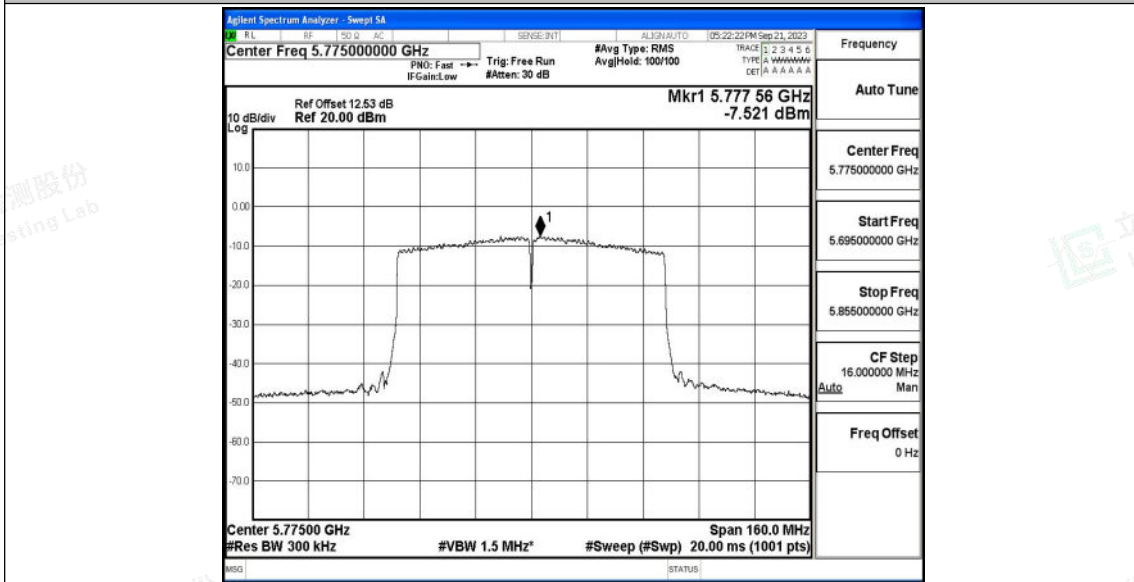
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11AC80SISO_Ant1_5775



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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 | -46.281 | ≤-27.00 | PASS |
| | | | | Peak | 5700.000 | -44.86 | ≤10.00 | PASS |
| | | | | Peak | 5720.000 | -34.08 | ≤15.60 | PASS |
| | | | | Peak | 5725.000 | -36.38 | ≤27.00 | PASS |
| | | High | 5825 | Peak | 5850.000 | -39.813 | ≤15.60 | PASS |
| | | | | Peak | 5855.000 | -38.73 | ≤27.00 | PASS |
| | | | | Peak | 5875.000 | -45.33 | ≤15.60 | PASS |
| | | | | Peak | 5925.000 | -45.88 | ≤10.00 | PASS |
| 11N20SISO | Ant1 | Low | 5745 | Peak | 5650.000 | -47.618 | ≤-27.00 | PASS |
| | | | | Peak | 5700.000 | -43.65 | ≤10.00 | PASS |
| | | | | Peak | 5720.000 | -36.85 | ≤15.60 | PASS |
| | | | | Peak | 5725.000 | -34.54 | ≤27.00 | PASS |
| | | High | 5825 | Peak | 5850.000 | -30.532 | ≤15.60 | PASS |
| | | | | Peak | 5855.000 | -35.77 | ≤27.00 | PASS |
| | | | | Peak | 5875.000 | -44.78 | ≤15.60 | PASS |
| | | | | Peak | 5925.000 | -48.74 | ≤10.00 | PASS |
| 11N40SISO | Ant1 | Low | 5755 | Peak | 5650.000 | -47.712 | ≤-27.00 | PASS |
| | | | | Peak | 5700.000 | -40.01 | ≤10.00 | PASS |
| | | | | Peak | 5720.000 | -31.43 | ≤15.60 | PASS |
| | | | | Peak | 5725.000 | -19.15 | ≤27.00 | PASS |
| | | High | 5795 | Peak | 5850.000 | -42.158 | ≤15.60 | PASS |
| | | | | Peak | 5855.000 | -41.65 | ≤27.00 | PASS |
| | | | | Peak | 5875.000 | -45.09 | ≤15.60 | PASS |
| | | | | Peak | 5925.000 | -48.98 | ≤10.00 | PASS |
| 11AC20SISO | Ant1 | Low | 5745 | Peak | 5650.000 | -47.477 | ≤-27.00 | PASS |
| | | | | Peak | 5700.000 | -44.8 | ≤10.00 | PASS |
| | | | | Peak | 5720.000 | -33.33 | ≤15.60 | PASS |
| | | | | Peak | 5725.000 | -29.97 | ≤27.00 | PASS |
| | | High | 5825 | Peak | 5850.000 | -32.201 | ≤15.60 | PASS |
| | | | | Peak | 5855.000 | -37.86 | ≤27.00 | PASS |
| | | | | Peak | 5875.000 | -45.38 | ≤15.60 | PASS |
| | | | | Peak | 5925.000 | -46.59 | ≤10.00 | PASS |
| 11AC40SISO | Ant1 | Low | 5755 | Peak | 5650.000 | -48.377 | ≤-27.00 | PASS |



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| | | | | | | | | |
|------------|------|------|------|------|----------|---------|---------|------|
| | | | | Peak | 5700.000 | -40.35 | ≤10.00 | PASS |
| | | | | Peak | 5720.000 | -27.44 | ≤15.60 | PASS |
| | | | | Peak | 5725.000 | -33.25 | ≤27.00 | PASS |
| | | High | 5795 | Peak | 5850.000 | -37.698 | ≤15.60 | PASS |
| | | | | Peak | 5855.000 | -39.1 | ≤27.00 | PASS |
| | | | | Peak | 5875.000 | -46.69 | ≤15.60 | PASS |
| | | | | Peak | 5925.000 | -47.94 | ≤10.00 | PASS |
| 11AC80SISO | Ant1 | Low | 5775 | Peak | 5650.000 | -46.619 | ≤-27.00 | PASS |
| | | | | Peak | 5700.000 | -30.67 | ≤10.00 | PASS |
| | | | | Peak | 5720.000 | -25.99 | ≤15.60 | PASS |
| | | | | Peak | 5725.000 | -30.52 | ≤27.00 | PASS |
| | | High | 5775 | Peak | 5850.000 | -33.584 | ≤15.60 | PASS |
| | | | | Peak | 5855.000 | -33.41 | ≤27.00 | PASS |
| | | | | Peak | 5875.000 | -39.78 | ≤15.60 | PASS |
| | | | | Peak | 5925.000 | -46.17 | ≤10.00 | PASS |

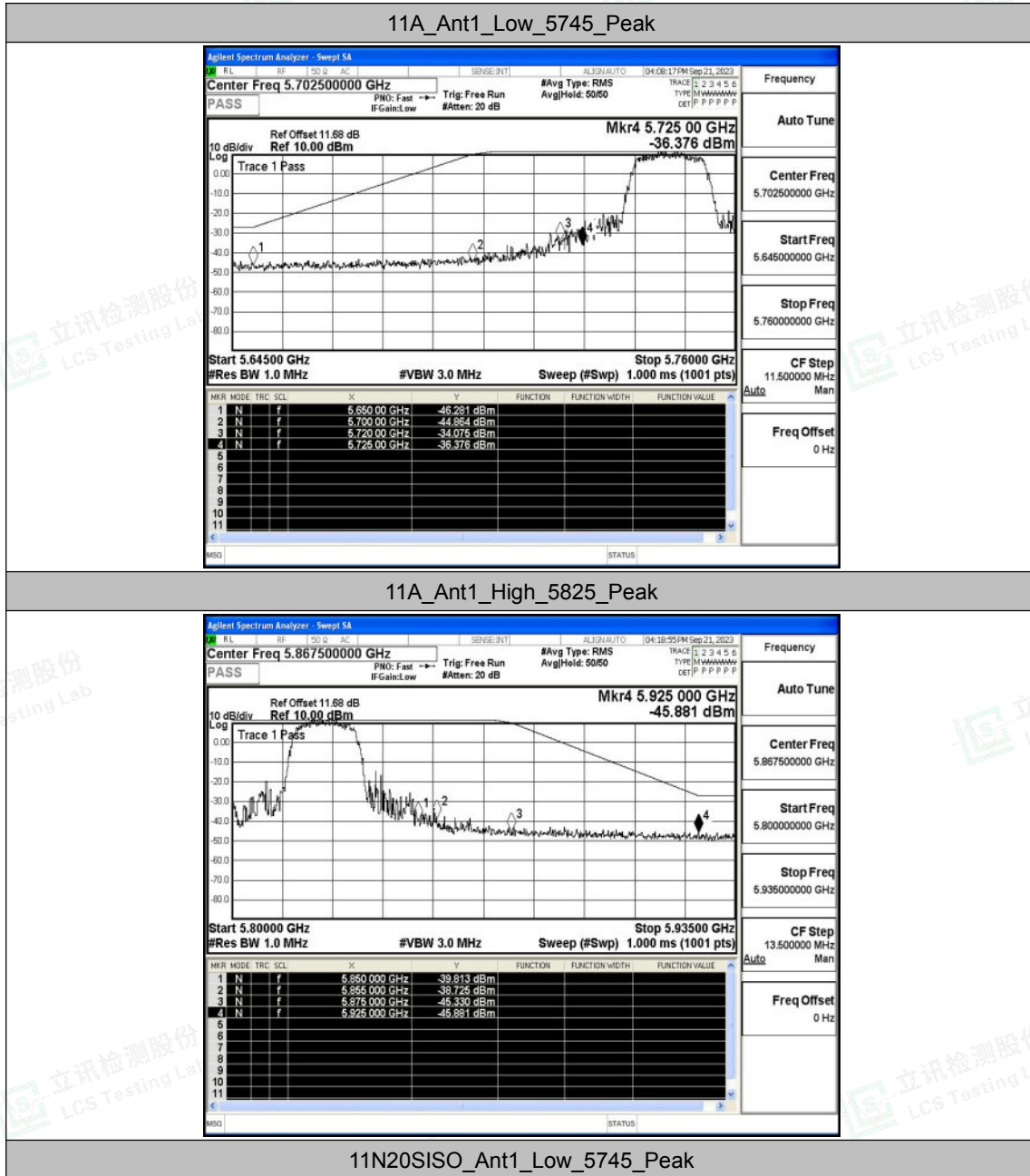
Note:

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.

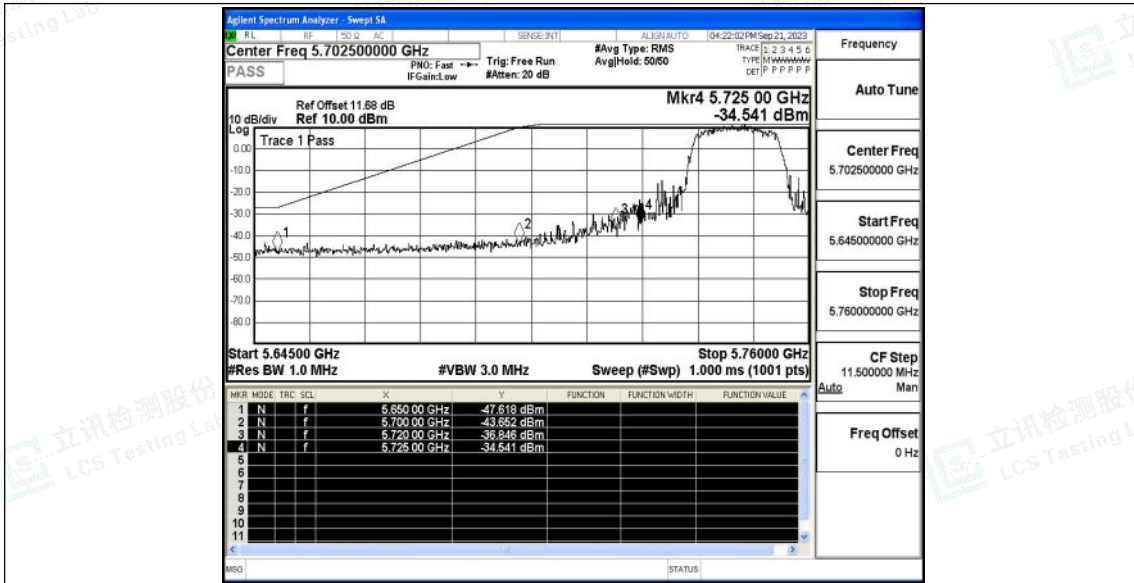




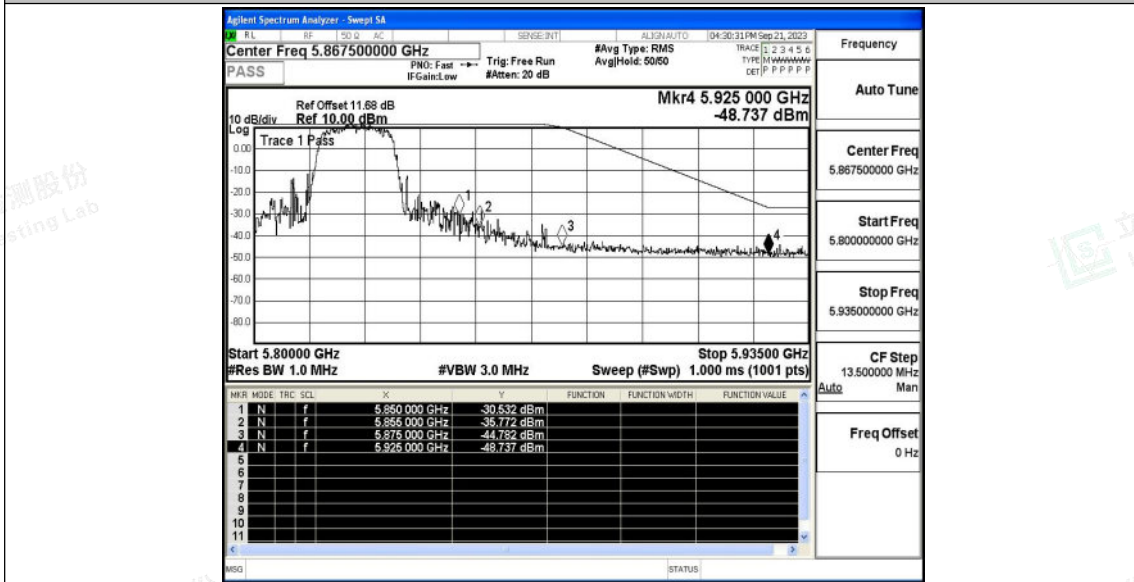
Test Graphs



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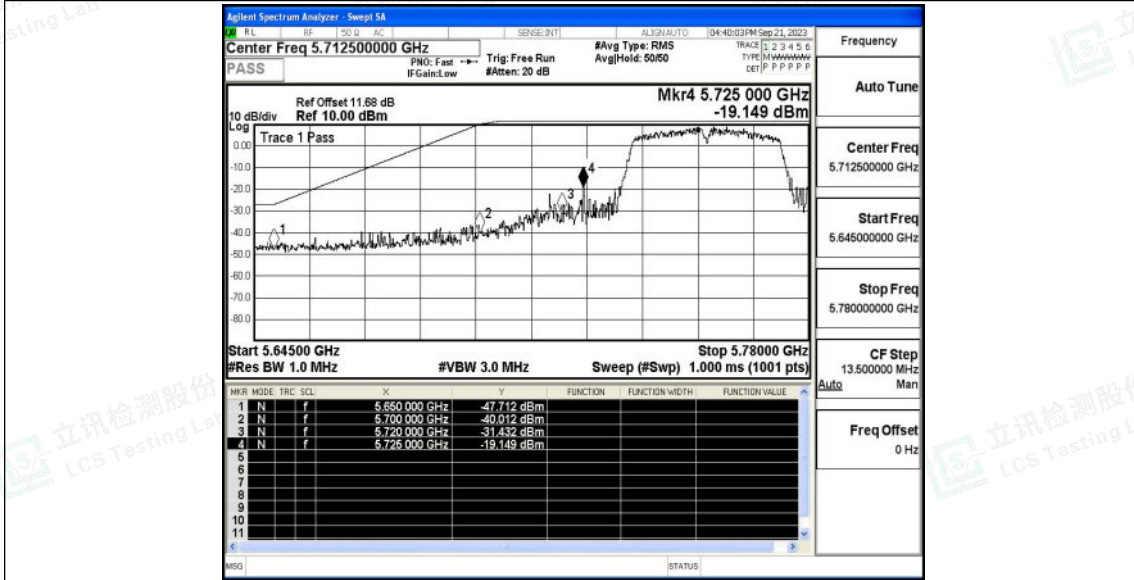
11N20SISO_Ant1_High_5825_Peak



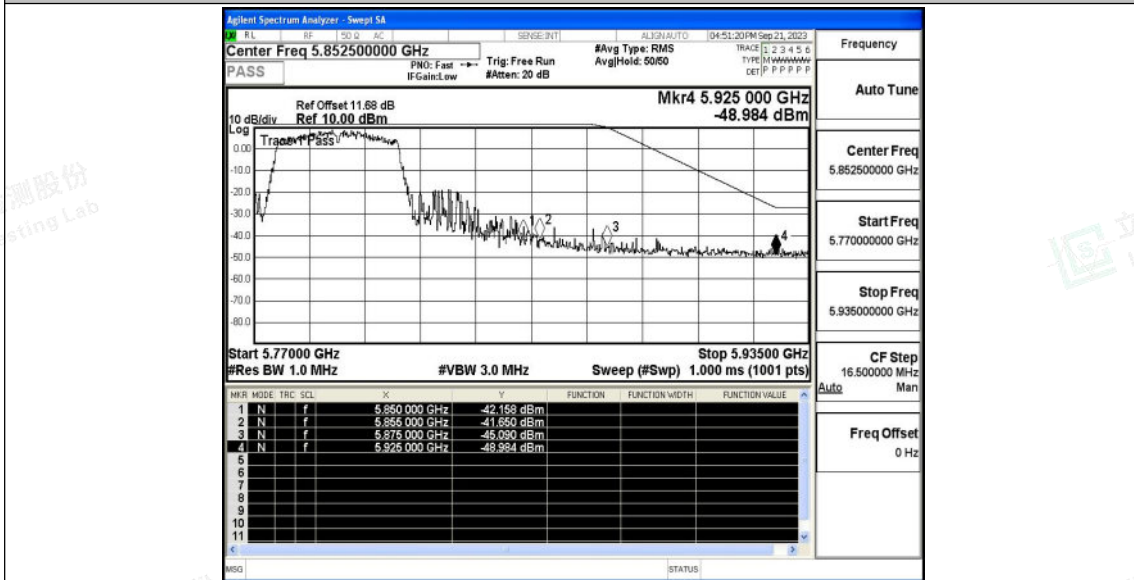
11N40SISO_Ant1_Low_5755_Peak



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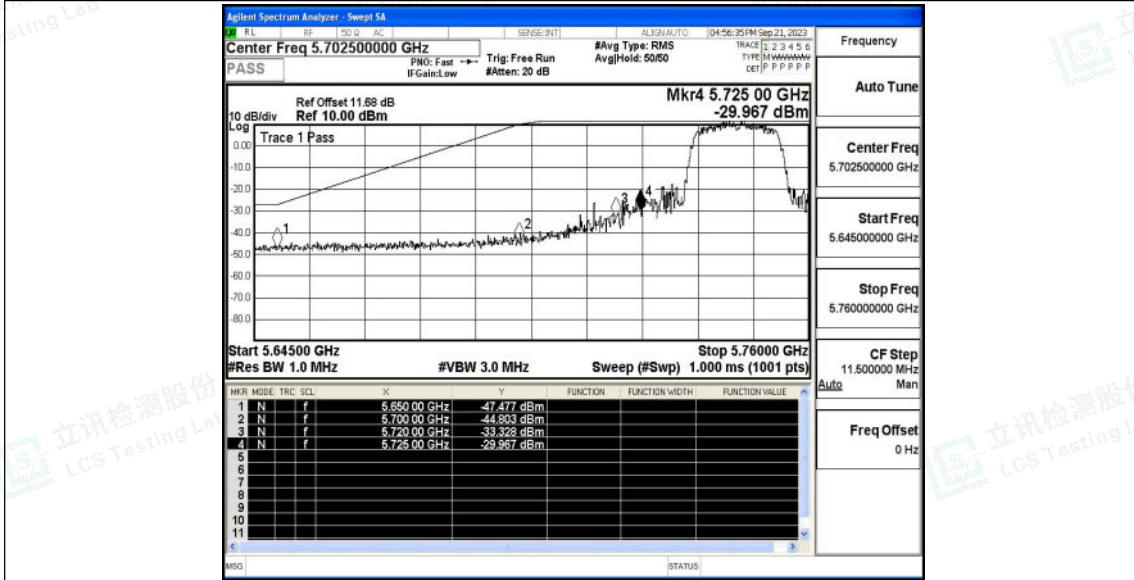
11N40SISO_Ant1_High_5795_Peak



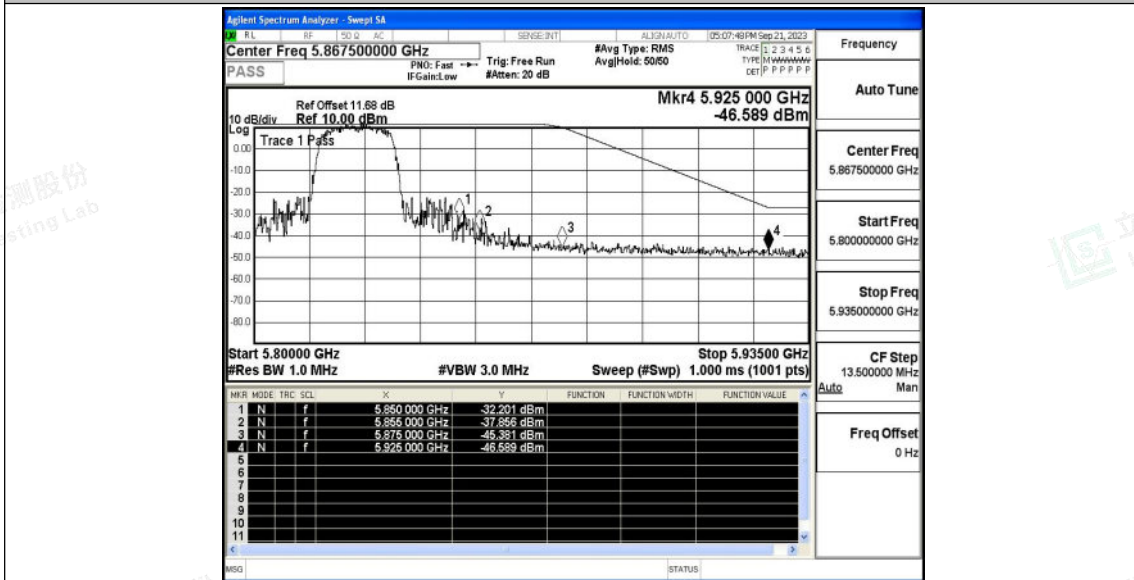
11AC20SISO_Ant1_Low_5745_Peak



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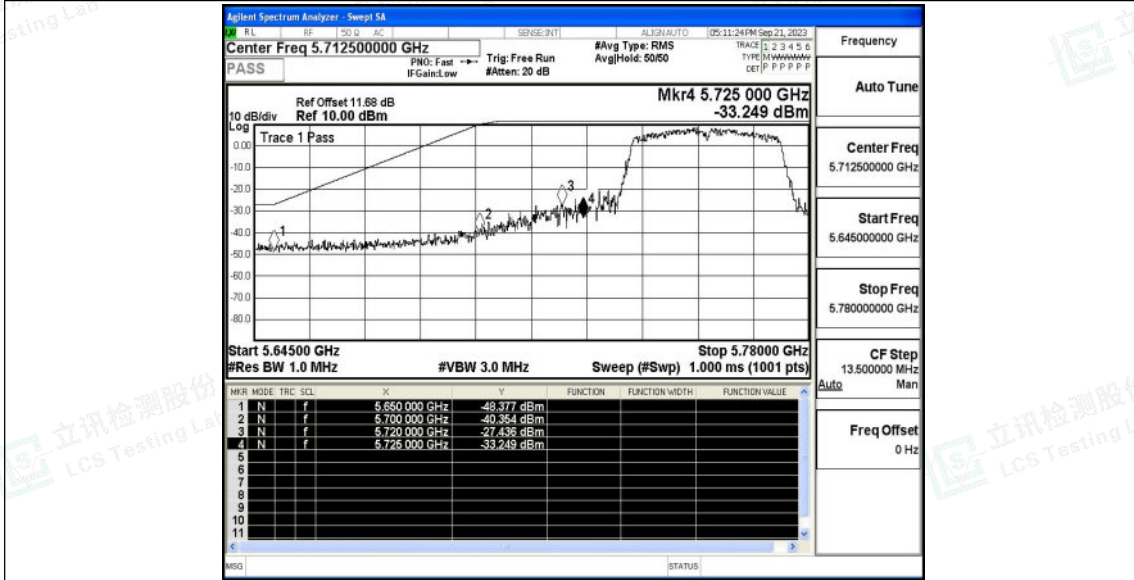
11AC20SISO_Ant1_High_5825_Peak



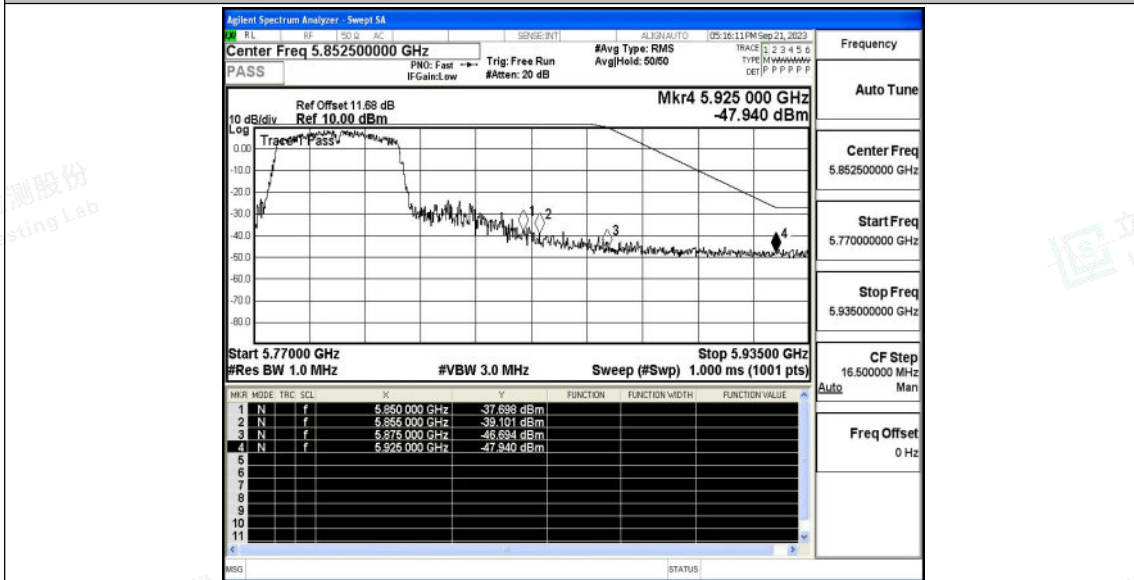
11AC40SISO_Ant1_Low_5755_Peak



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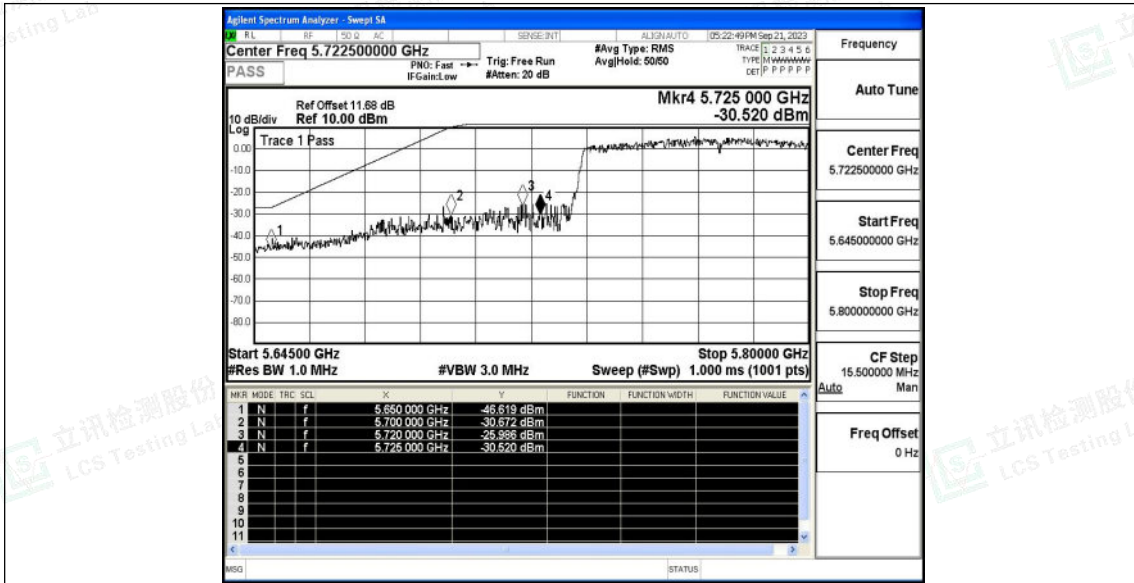
11AC40SISO_Ant1_High_5795_Peak



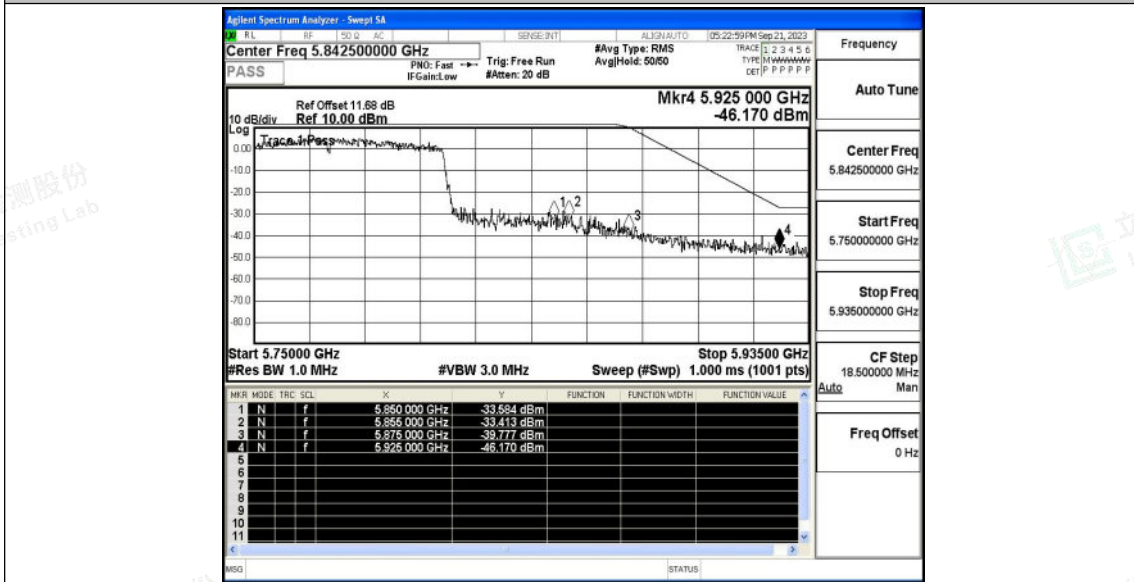
11AC80SISO_Ant1_Low_5775_Peak



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11AC80SISO_Ant1_High_5775_Peak



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E.5 Frequency Stability

Test Result

| Voltage | | | | | | | | |
|----------------|---------|-----------------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode | Antenna | Frequency [MHz] | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11N20SI SO | Ant1 | 5745 | NV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | 5785 | NV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.914434 | 20 | PASS |
| | | 5825 | NV | NT | -40000.00 | -6.866953 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.433476 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.433476 | 20 | PASS |
| 11N40SI SO | Ant1 | 5755 | NV | NT | -40000.00 | -6.950478 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | 5795 | NV | NT | -40000.00 | -6.902502 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11AC80S 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 | Frequency [MHz] | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11N20SI SO | Ant1 | 5745 | NV | -30 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.481288 | 20 | PASS |
| | | 5785 | NV | -30 | -40000.00 | -6.914434 | 20 | PASS |



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| | | | | | | | | |
|----------------|------|-----------|---------------|-----------|-----------|------------|------|-----------|
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.914434 | 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 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.457217 | 20 | PASS |
| | | 5825 | NV | -30 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | -10 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.433476 | 20 | PASS |
| | | | 11N40SI SO | Ant1 | 5755 | NV | -30 | -40000.00 |
| NV | -20 | 0.00 | | | | 0.000000 | 20 | PASS |
| NV | -10 | -40000.00 | | | | -6.950478 | 20 | PASS |
| NV | 0 | -40000.00 | | | | -6.950478 | 20 | PASS |
| NV | 10 | -40000.00 | | | | -6.950478 | 20 | PASS |
| NV | 20 | -40000.00 | | | | -6.950478 | 20 | PASS |
| NV | 30 | -40000.00 | | | | -6.950478 | 20 | PASS |
| NV | 40 | -40000.00 | | | | -6.950478 | 20 | PASS |
| NV | 50 | -40000.00 | | | -6.950478 | 20 | PASS | |
| 5795 | NV | -30 | | | -40000.00 | -6.902502 | 20 | PASS |
| | NV | -20 | 40000.00 | 6.902502 | 20 | PASS | | |
| | NV | -10 | 40000.00 | 6.902502 | 20 | PASS | | |
| | NV | 0 | -40000.00 | -6.902502 | 20 | PASS | | |
| | NV | 10 | -40000.00 | -6.902502 | 20 | PASS | | |
| | NV | 20 | -40000.00 | -6.902502 | 20 | PASS | | |
| | NV | 30 | 0.00 | 0.000000 | 20 | PASS | | |
| | NV | 40 | 40000.00 | 6.902502 | 20 | PASS | | |
| NV | 50 | -40000.00 | -6.902502 | 20 | PASS | | | |
| 11AC80S ISO | Ant1 | 5775 | NV | -30 | -80000.00 | -13.852814 | 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 |



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| | | | | | | | |
|--|--|----|----|-----------|------------|----|------|
| | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | NV | 30 | 80000.00 | 13.852814 | 20 | PASS |
| | | NV | 40 | -80000.00 | -13.852814 | 20 | PASS |
| | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |



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E.6 Duty Cycle

Test Result

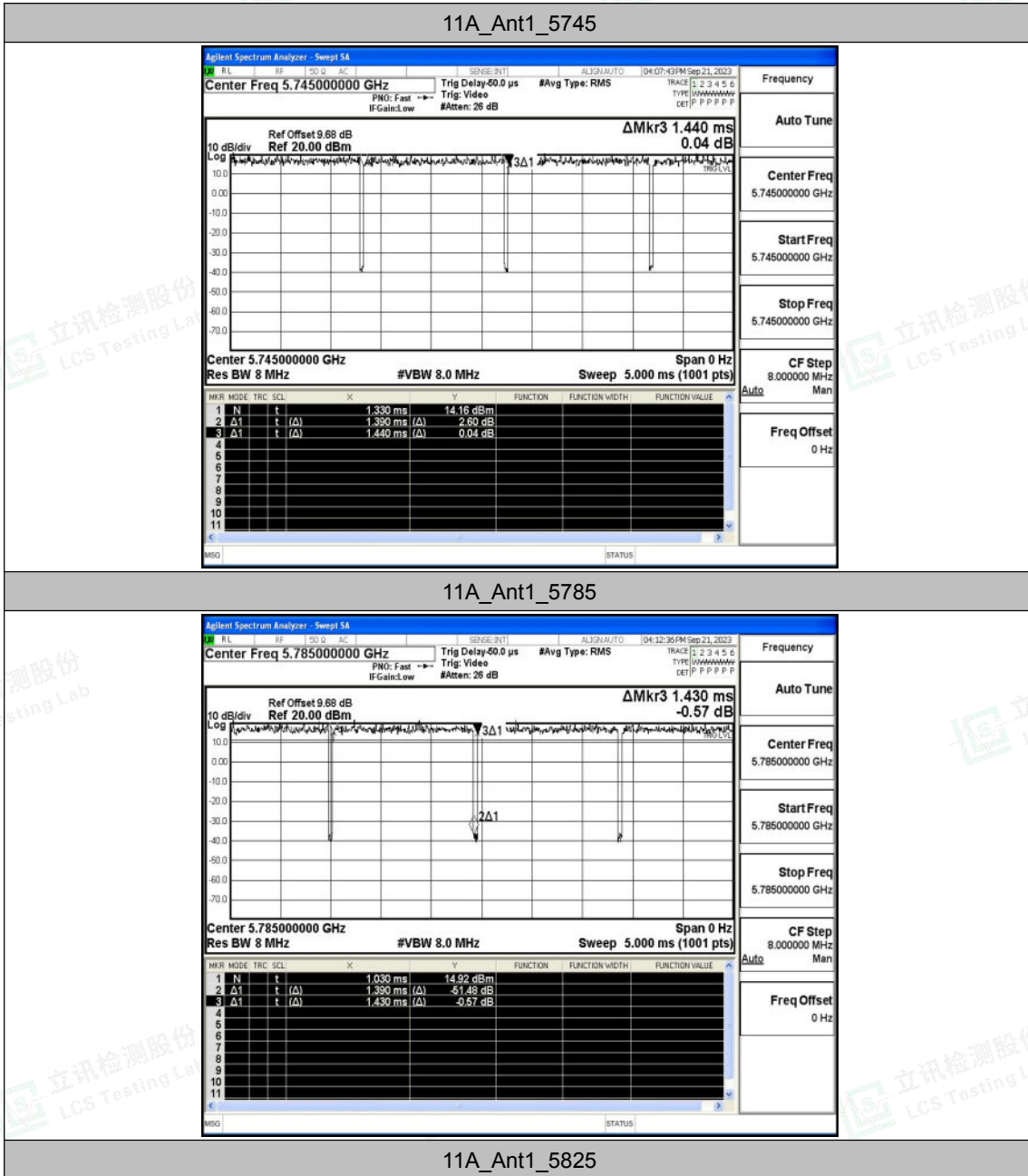
| TestMode | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|----------------|----------------------------|--------------------------|----------------|
| 11A | Ant1 | 5745 | 1.39 | 1.44 | 96.53 |
| | | 5785 | 1.39 | 1.43 | 97.20 |
| | | 5825 | 1.39 | 1.44 | 96.53 |
| 11N20SISO | Ant1 | 5745 | 1.28 | 1.33 | 96.24 |
| | | 5785 | 1.28 | 1.33 | 96.24 |
| | | 5825 | 1.29 | 1.33 | 96.99 |
| 11N40SISO | Ant1 | 5755 | 0.64 | 0.68 | 94.12 |
| | | 5795 | 0.64 | 0.68 | 94.12 |
| 11AC20SISO | Ant1 | 5745 | 1.31 | 1.35 | 97.04 |
| | | 5785 | 1.31 | 1.36 | 96.32 |
| | | 5825 | 1.31 | 1.36 | 96.32 |
| 11AC40SISO | Ant1 | 5755 | 0.65 | 0.69 | 94.20 |
| | | 5795 | 0.65 | 0.69 | 94.20 |
| 11AC80SISO | Ant1 | 5775 | 0.32 | 0.37 | 86.49 |



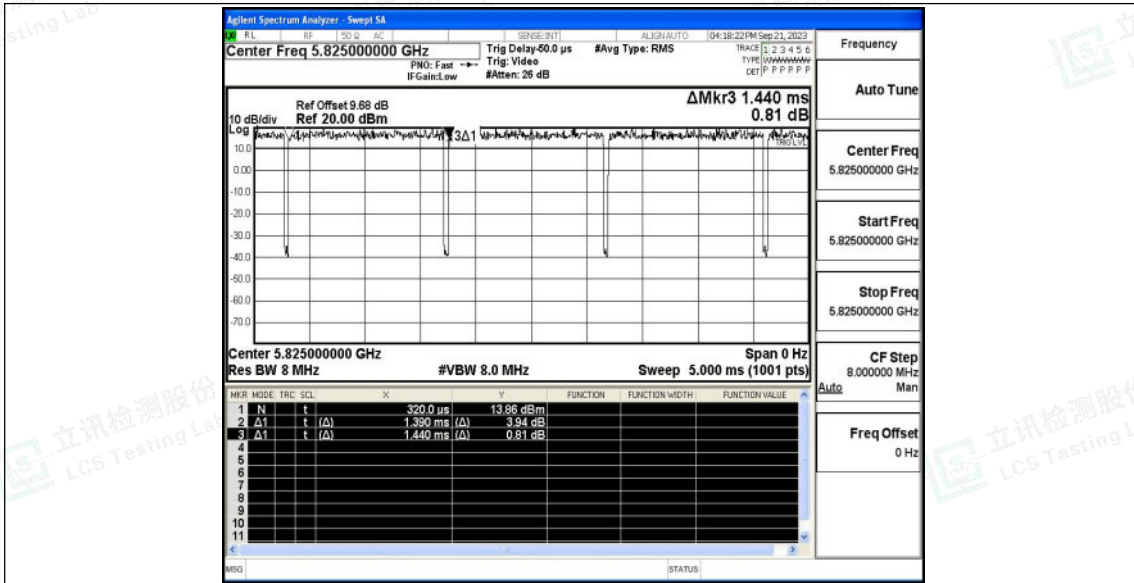
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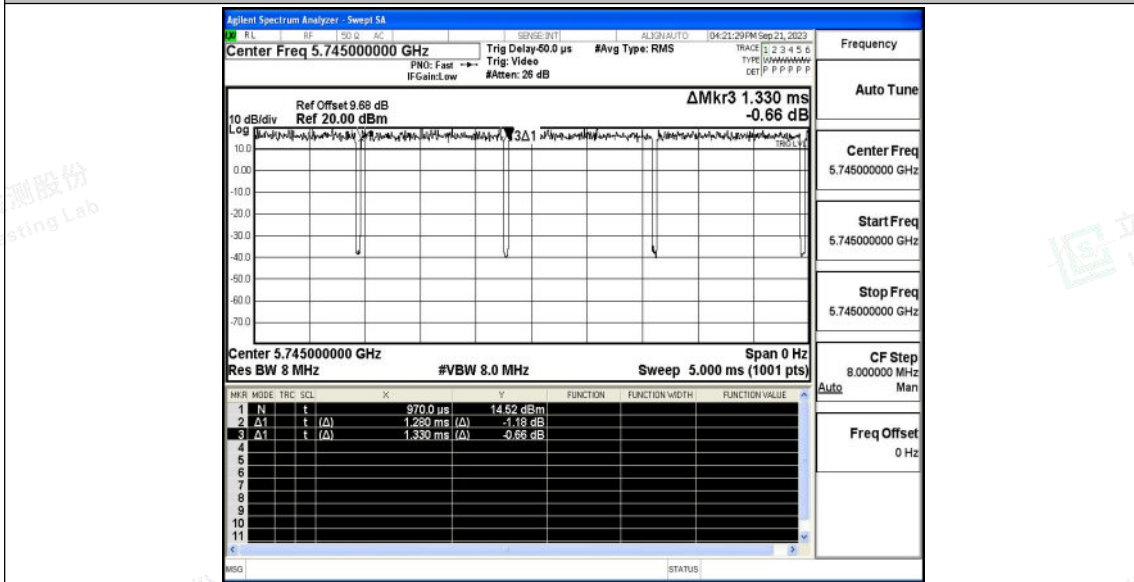
Test Graphs



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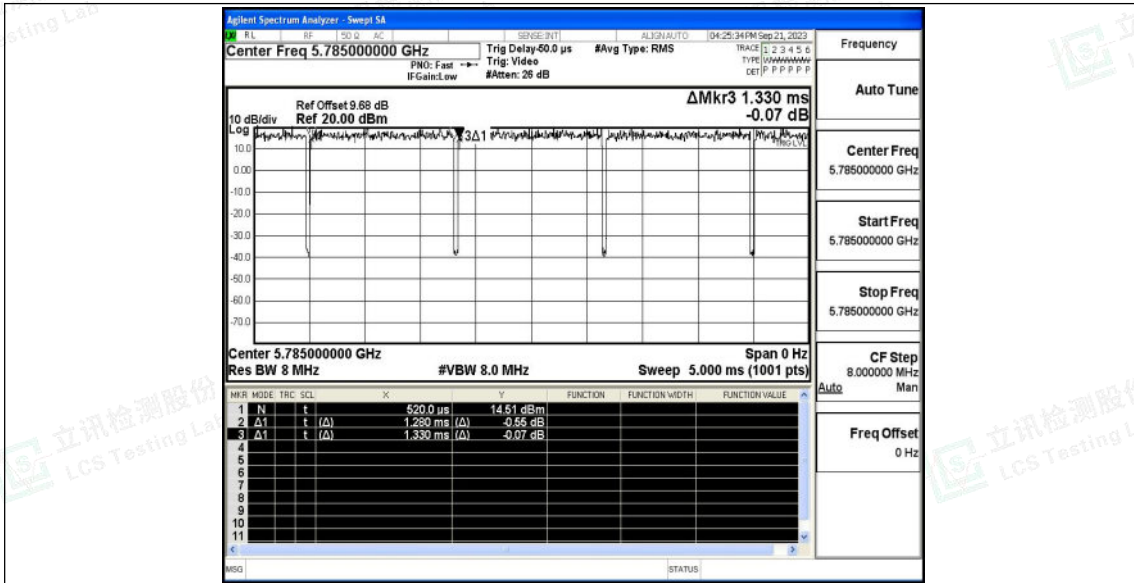
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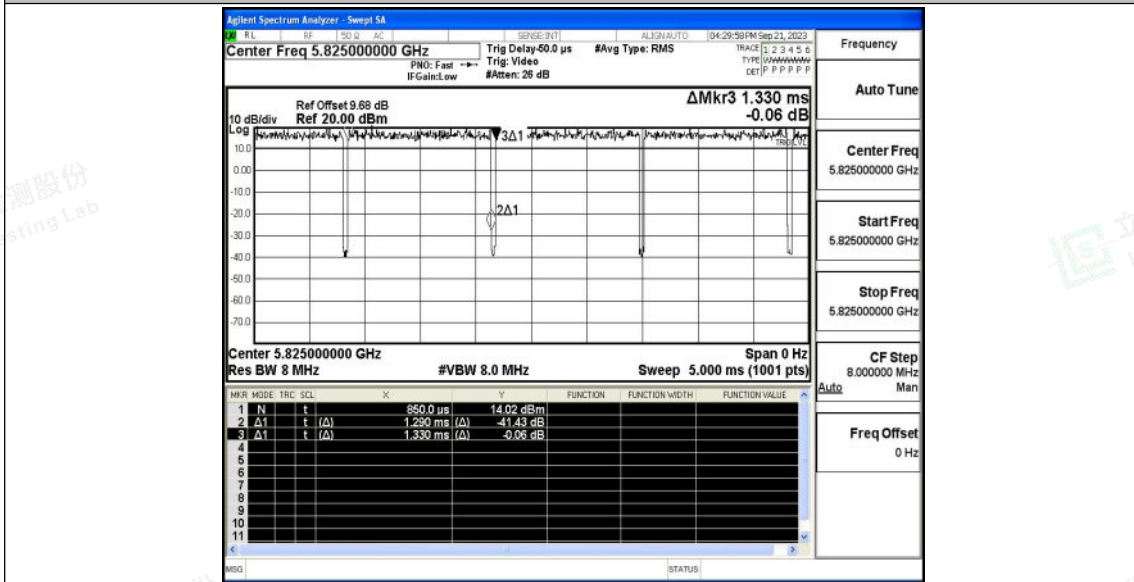
11N20SISO_Ant1_5785



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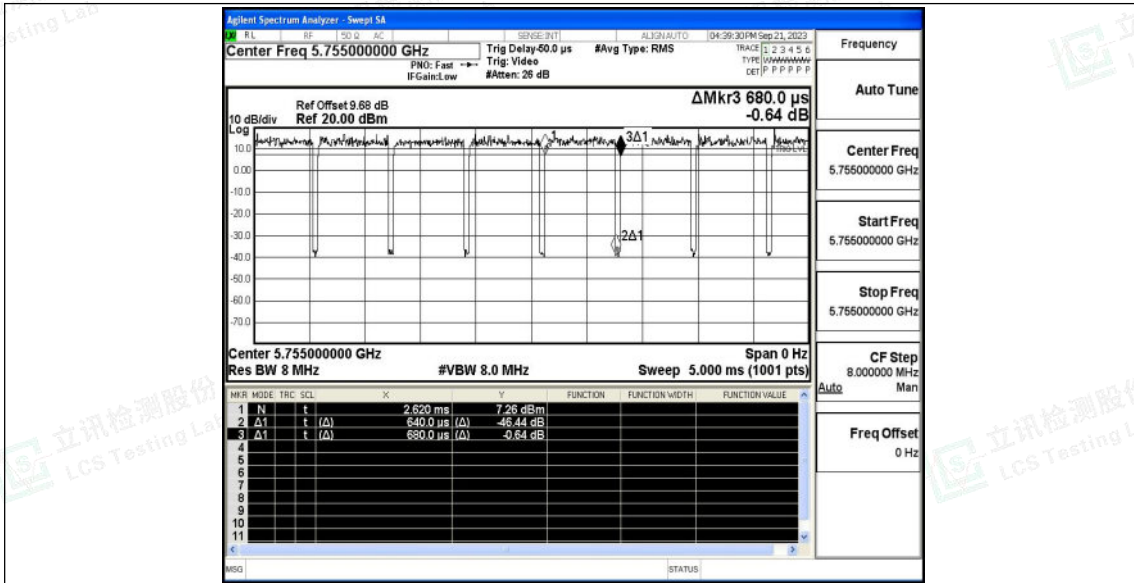
11N20SISO_Ant1_5825



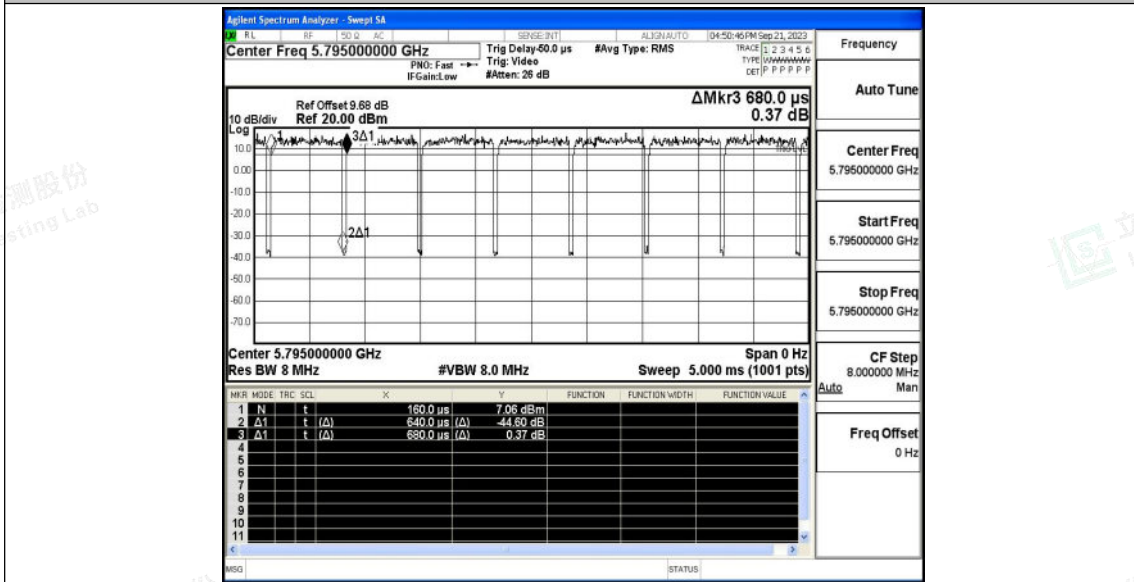
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 Scan code to check authenticity



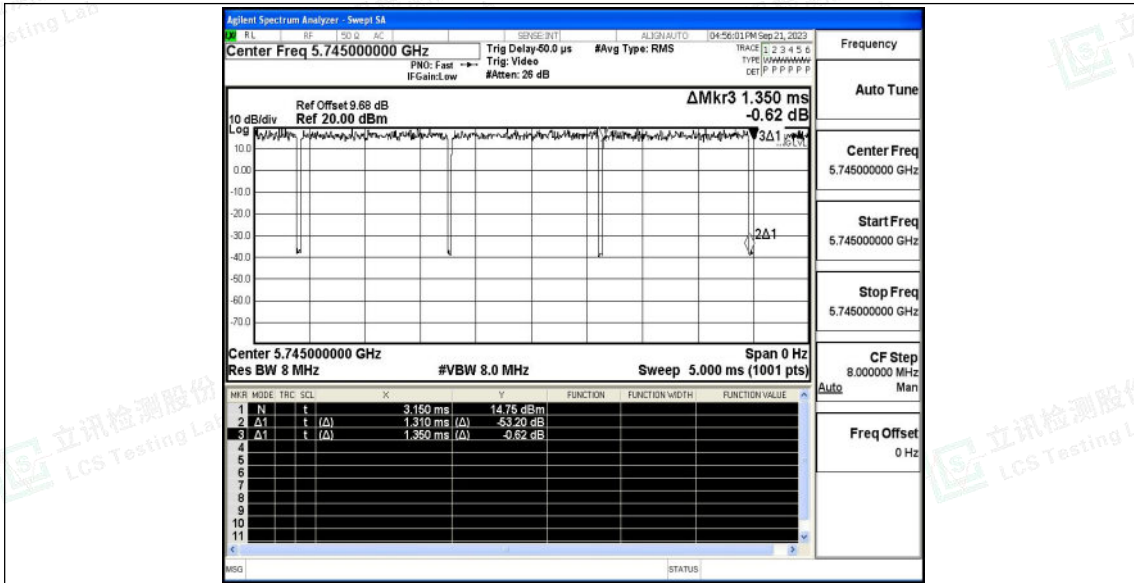
11N40SISO_Ant1_5795



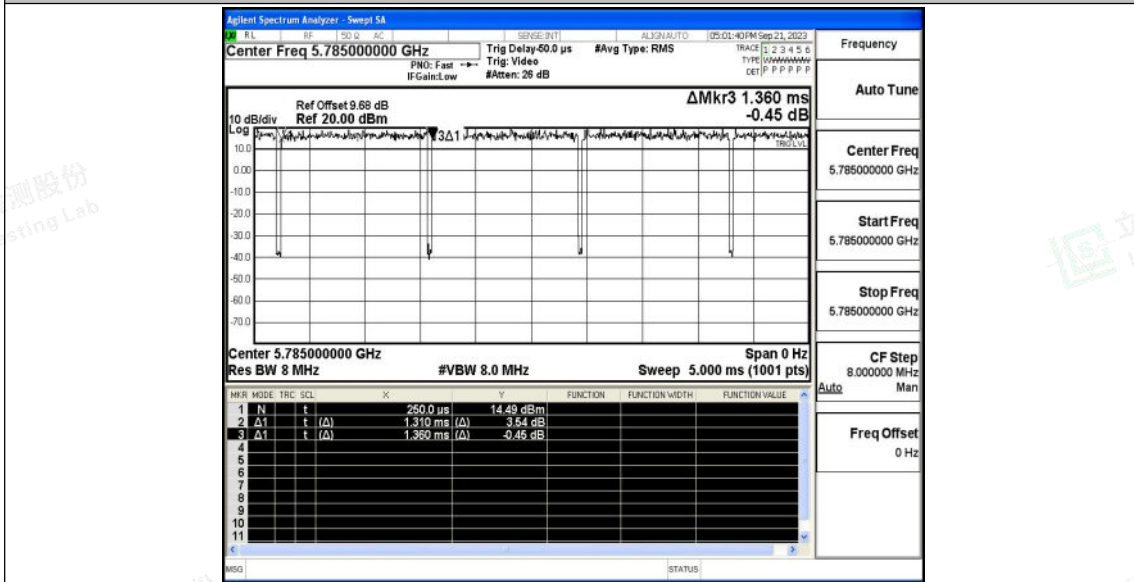
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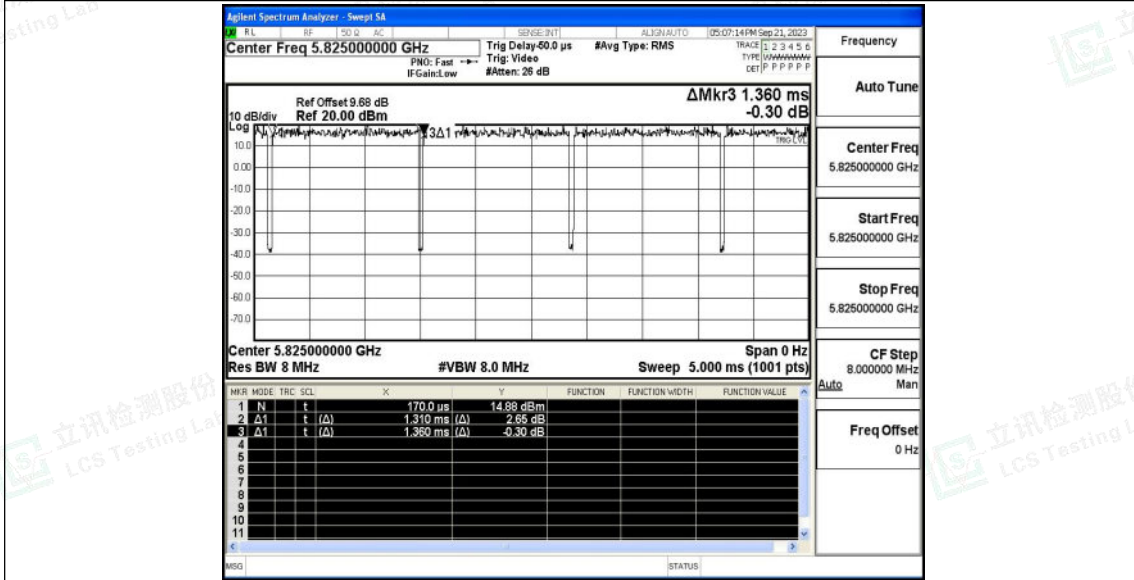
11AC20SISO_Ant1_5785



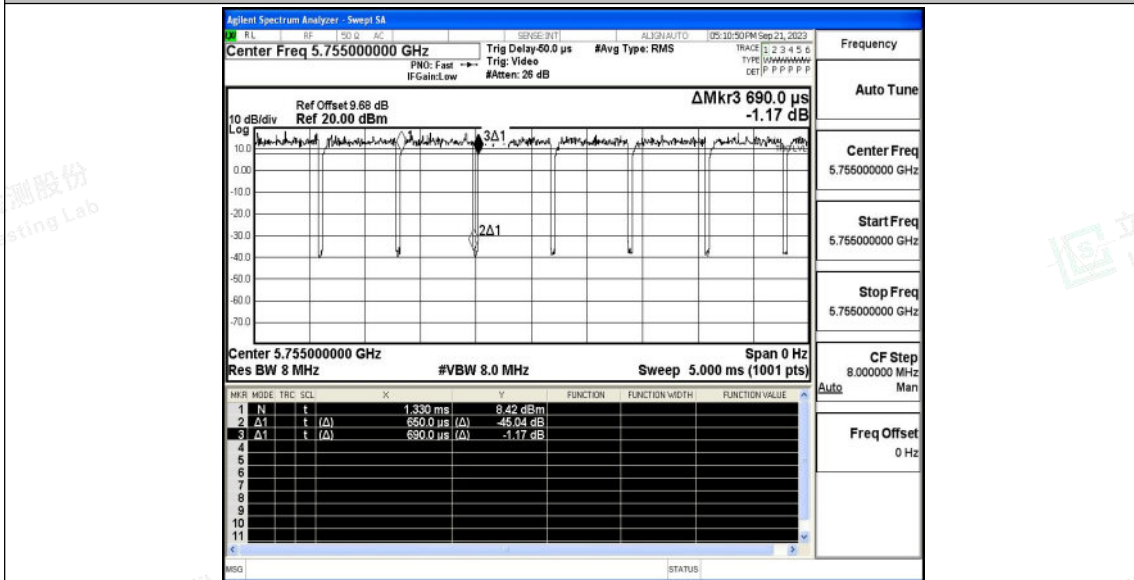
11AC20SISO_Ant1_5825



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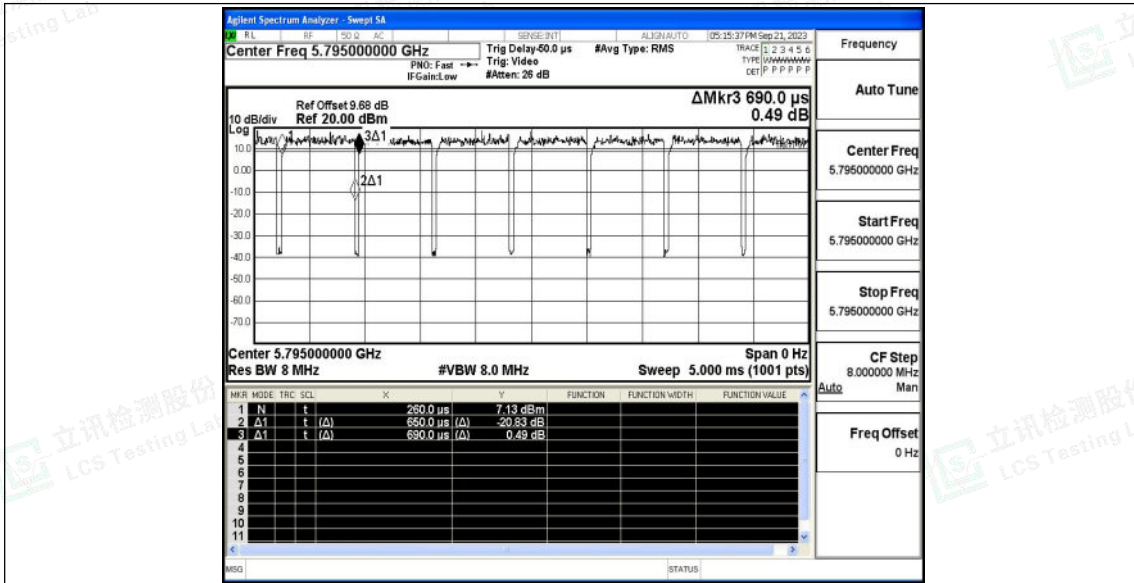
11AC40SISO_Ant1_5755



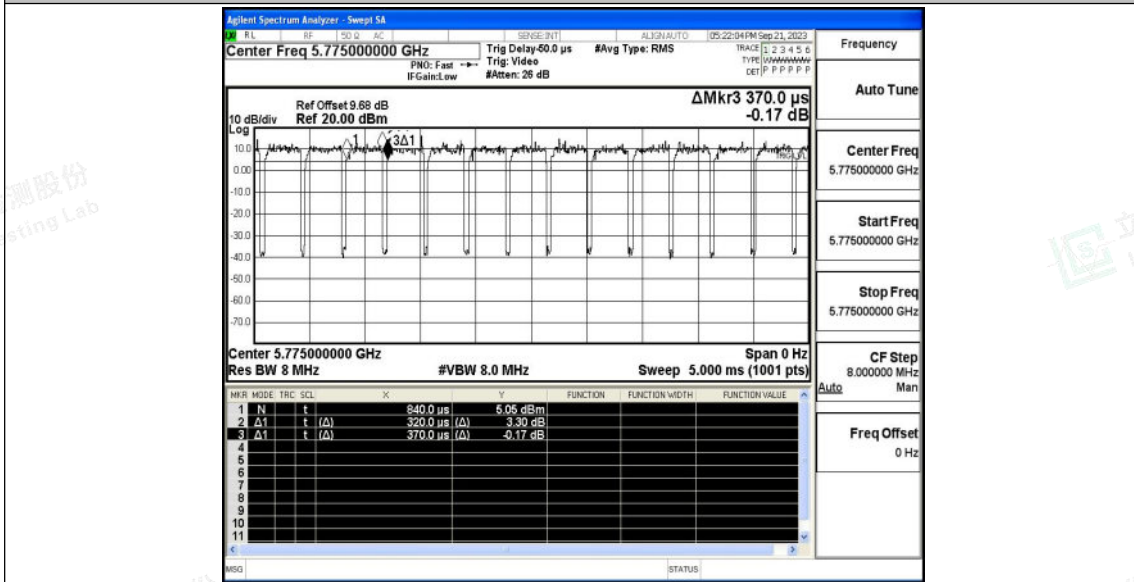
11AC40SISO_Ant1_5795



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11AC80SISO_Ant1_5775



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