



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: LED strip

Test Model: AC107

Environmental Conditions

| | |
|--------------------|-----------------|
| Temperature: | 23.5°C |
| Relative Humidity: | 52.2% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | <i>Y.M. Zhu</i> |
| Supervised by: | <i>Libu</i> |





B.1 DTS Bandwidth

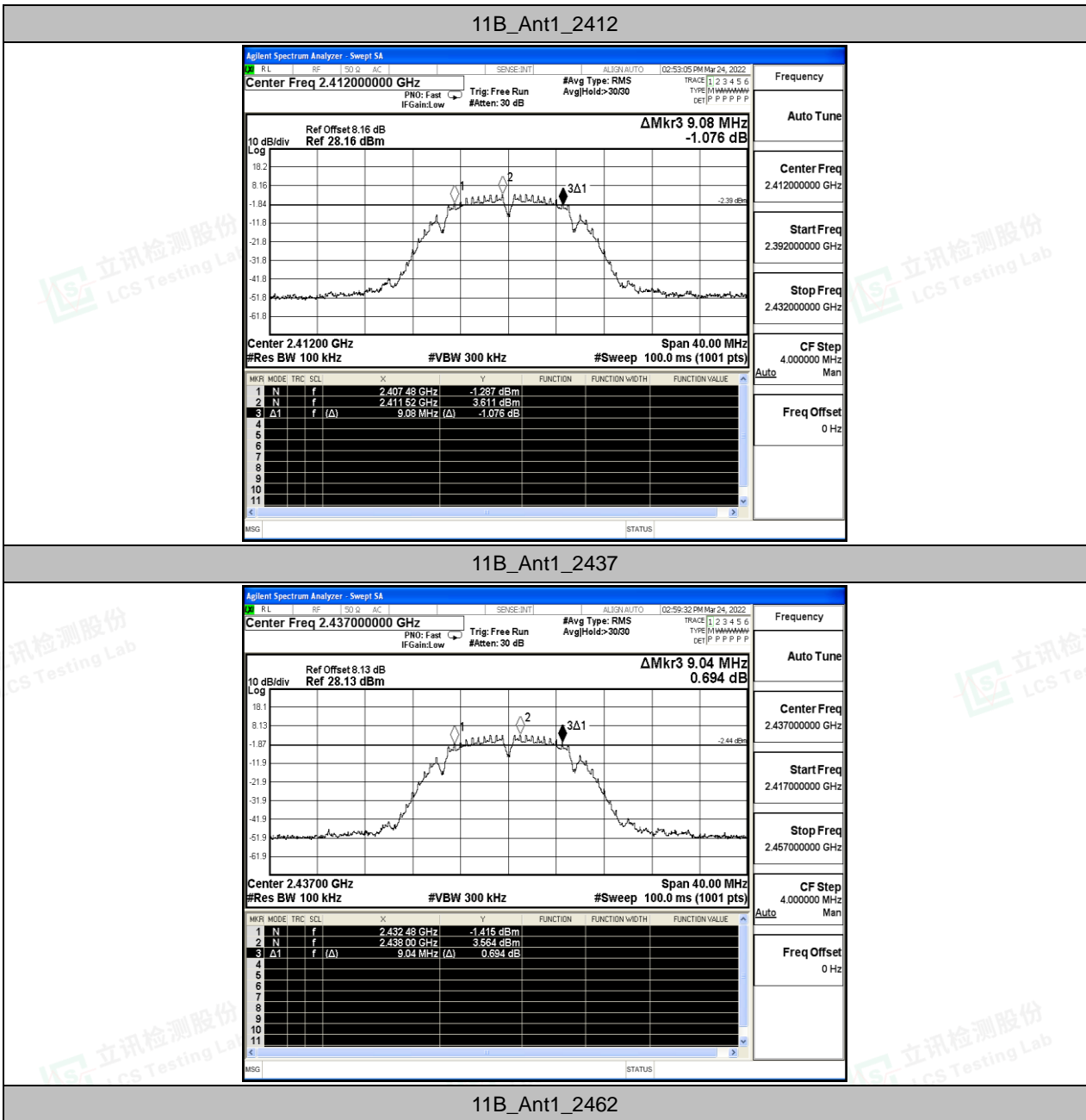
Test Result

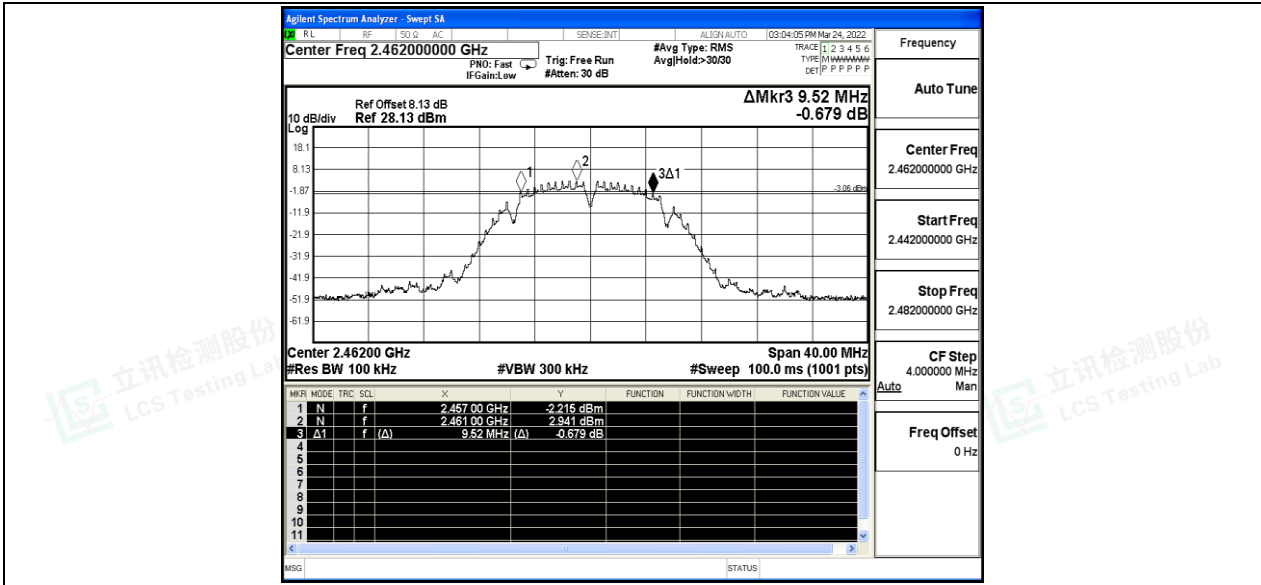
| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B | Ant1 | 2412 | 9.080 | 2407.480 | 2416.560 | 0.5 | PASS |
| | | 2437 | 9.040 | 2432.480 | 2441.520 | 0.5 | PASS |
| | | 2462 | 9.520 | 2457.000 | 2466.520 | 0.5 | PASS |
| 11G | Ant1 | 2412 | 16.400 | 2403.840 | 2420.240 | 0.5 | PASS |
| | | 2437 | 16.320 | 2428.840 | 2445.160 | 0.5 | PASS |
| | | 2462 | 16.080 | 2453.800 | 2469.880 | 0.5 | PASS |
| 11N20SISO | Ant1 | 2412 | 17.600 | 2403.200 | 2420.800 | 0.5 | PASS |
| | | 2437 | 17.560 | 2428.240 | 2445.800 | 0.5 | PASS |
| | | 2462 | 17.160 | 2453.200 | 2470.360 | 0.5 | PASS |
| 11N40SISO | Ant1 | 2422 | 35.680 | 2404.480 | 2440.160 | 0.5 | PASS |
| | | 2437 | 35.680 | 2419.480 | 2455.160 | 0.5 | PASS |
| | | 2452 | 35.440 | 2434.080 | 2469.520 | 0.5 | PASS |



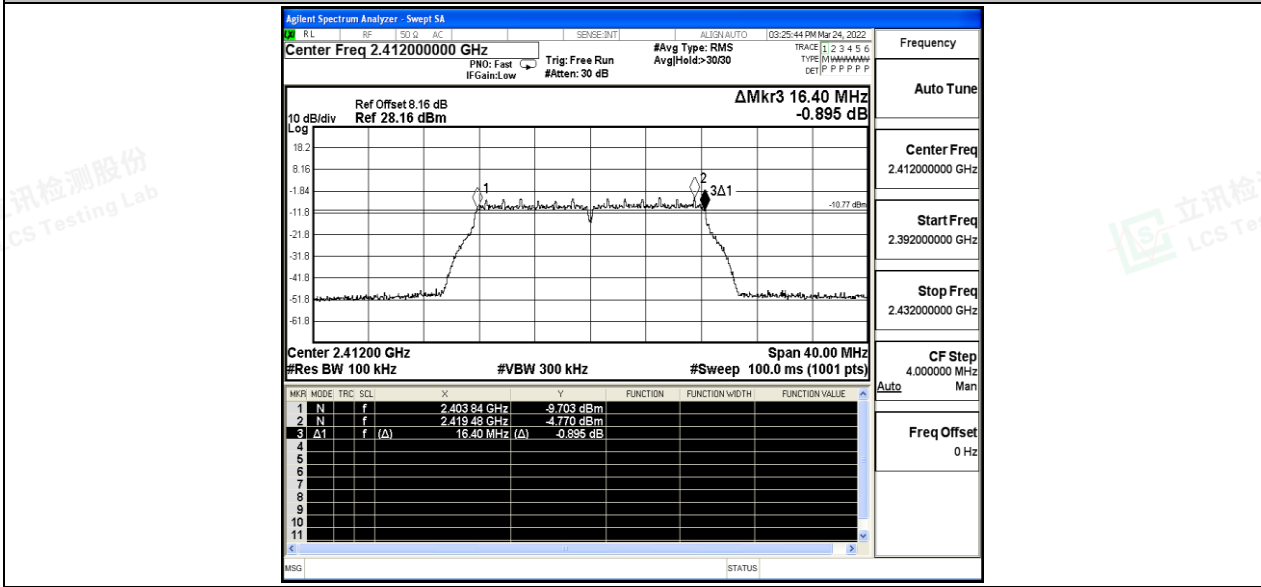


Test Graphs



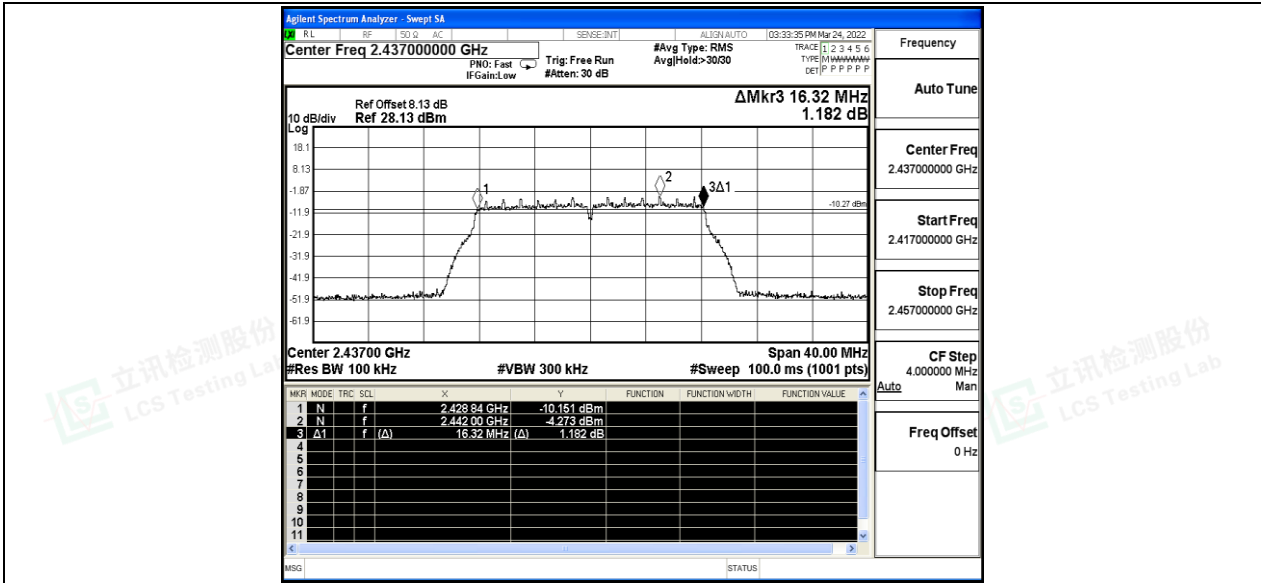


11G_Ant1_2412

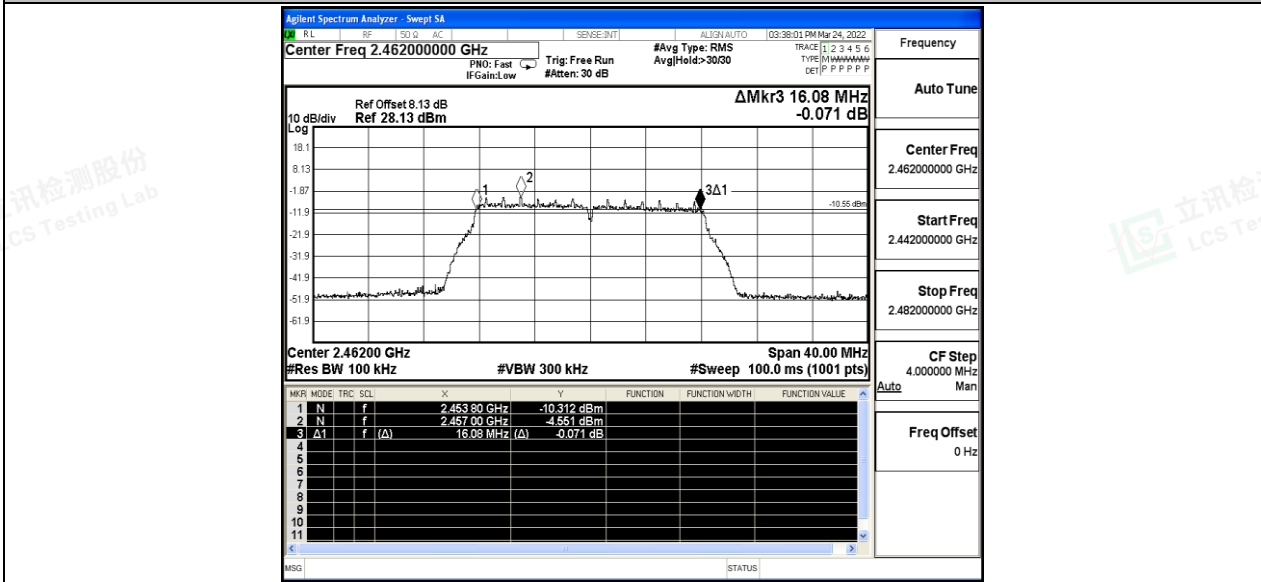


11G_Ant1_2437



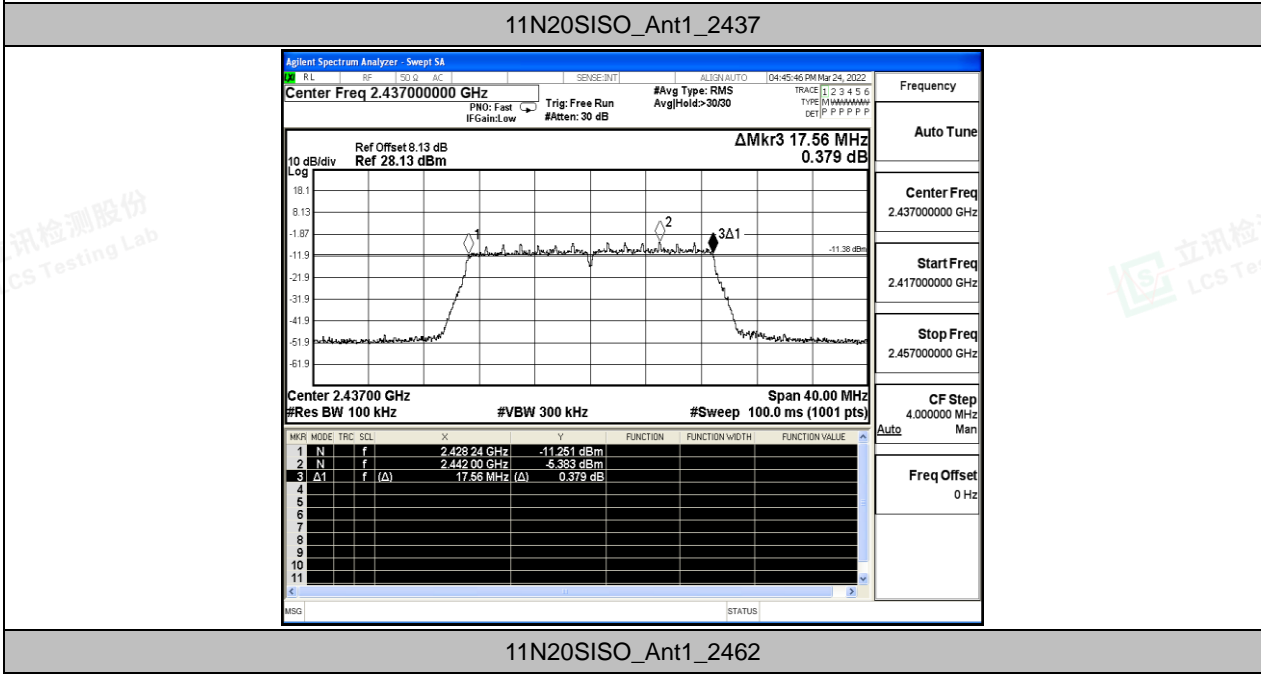
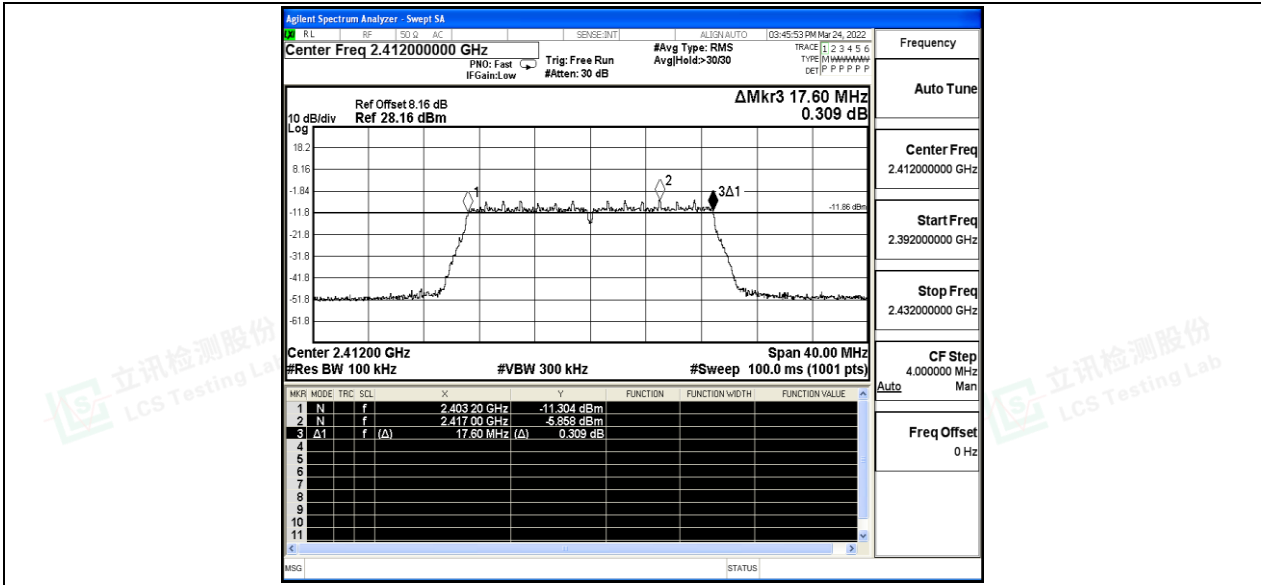


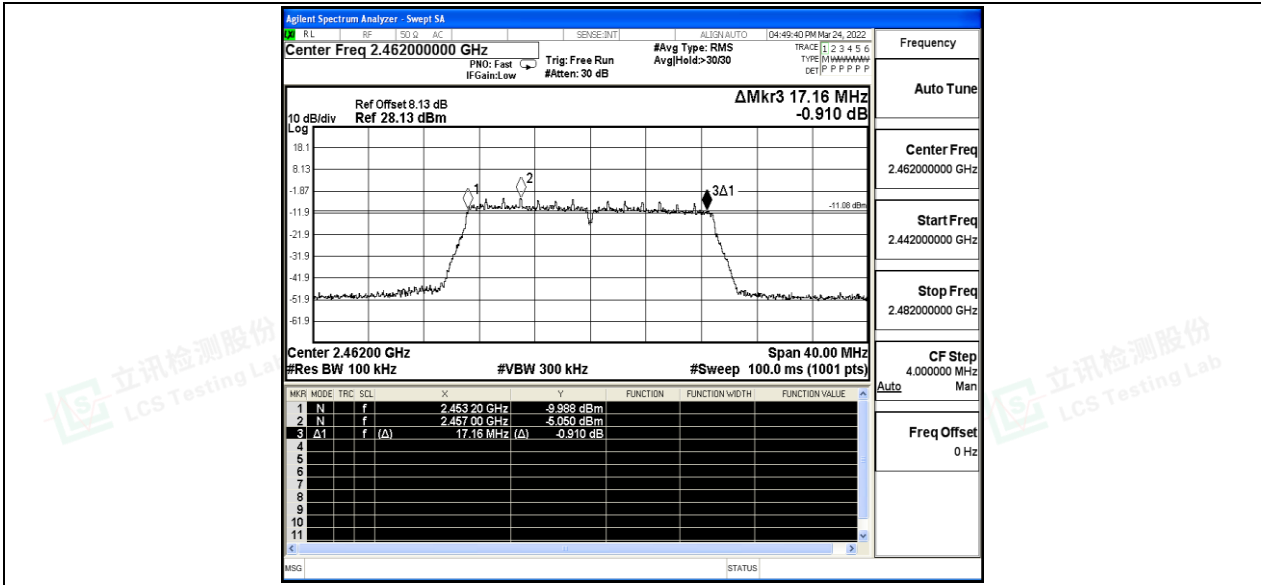
11G_Ant1_2462



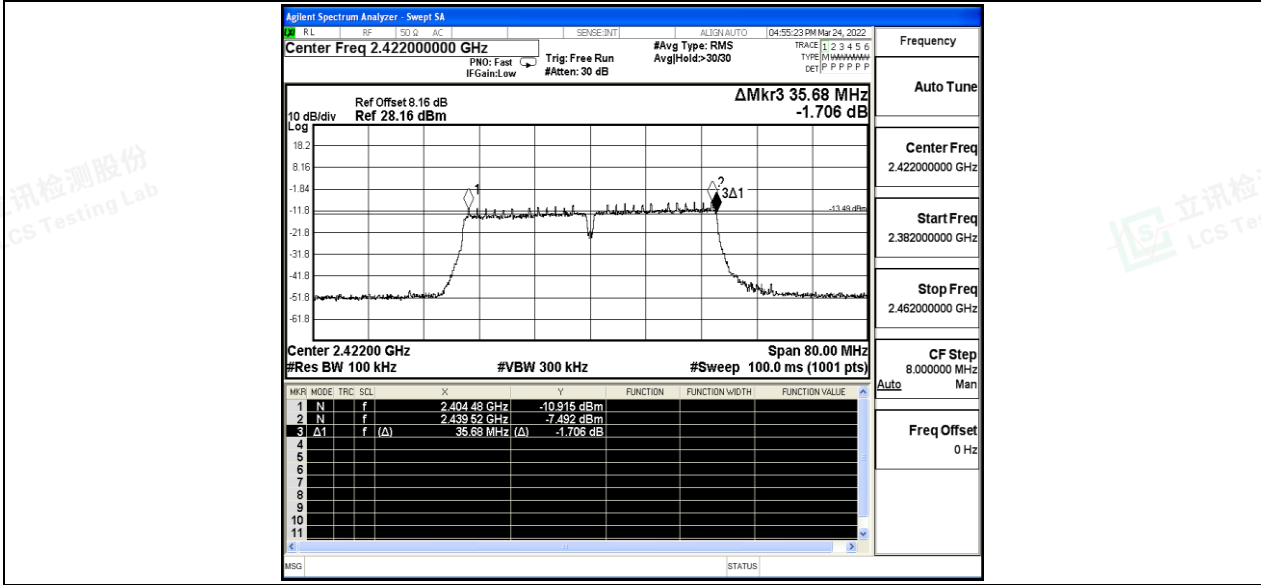
11N20SISO_Ant1_2412





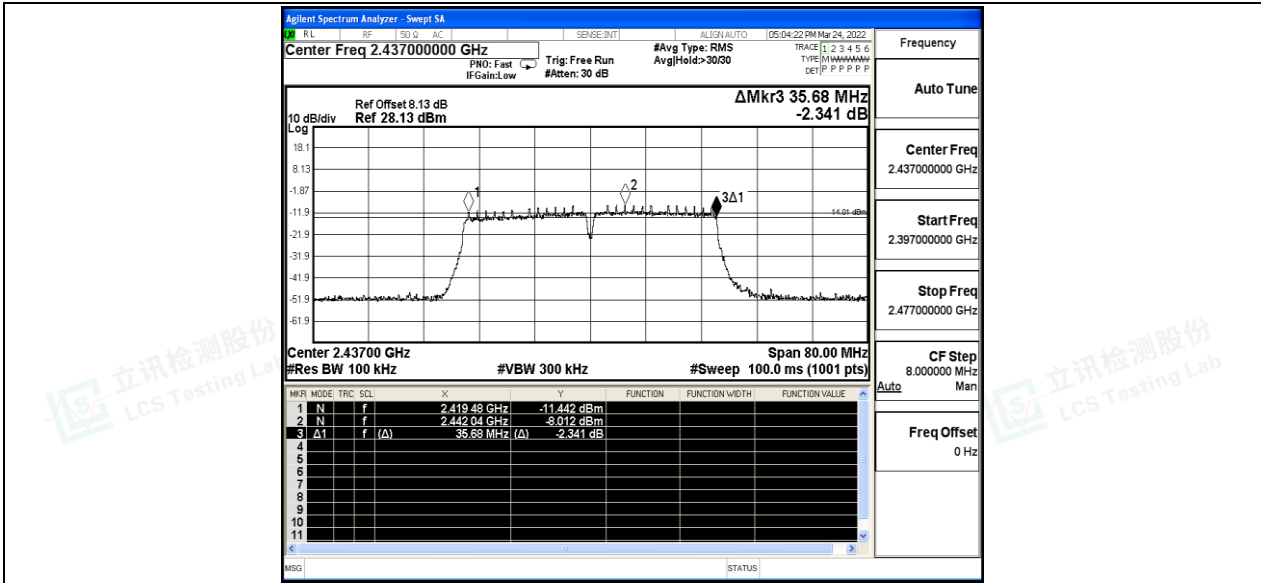


11N40SISO_Ant1_2422

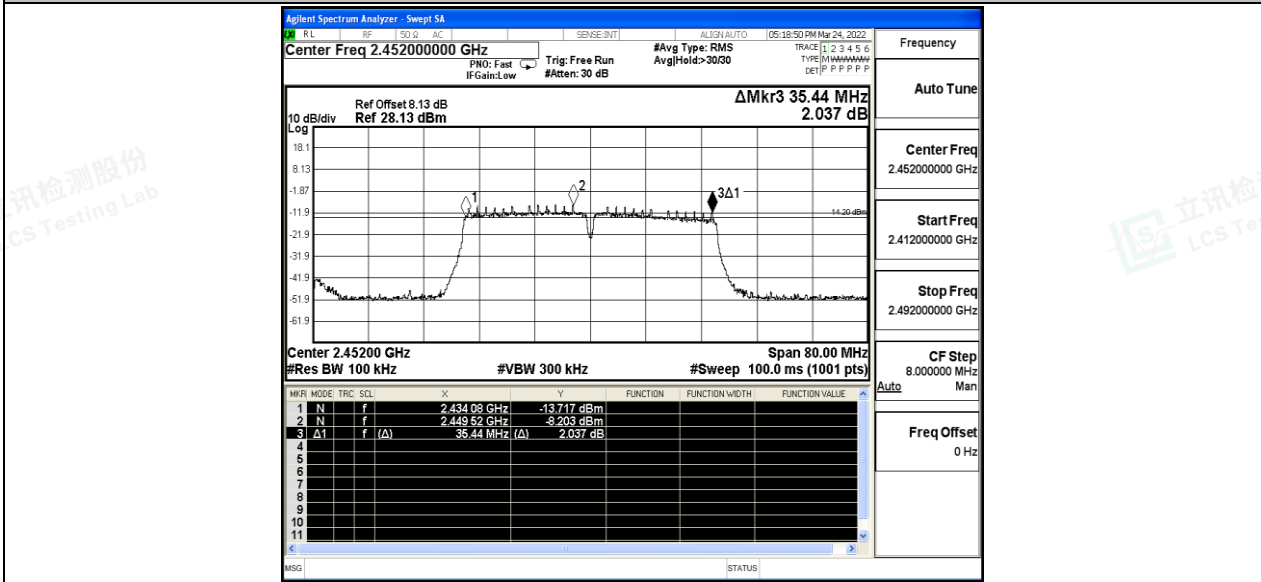


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.2 Maximum conducted output power

Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 11B | Ant1 | 2412 | 15.26 | ≤30.00 | PASS |
| | | 2437 | 15.39 | ≤30.00 | PASS |
| | | 2462 | 14.75 | ≤30.00 | PASS |
| 11G | Ant1 | 2412 | 14.45 | ≤30.00 | PASS |
| | | 2437 | 14.76 | ≤30.00 | PASS |
| | | 2462 | 14.40 | ≤30.00 | PASS |
| 11N20SISO | Ant1 | 2412 | 13.46 | ≤30.00 | PASS |
| | | 2437 | 13.63 | ≤30.00 | PASS |
| | | 2462 | 13.61 | ≤30.00 | PASS |
| 11N40SISO | Ant1 | 2422 | 13.72 | ≤30.00 | PASS |
| | | 2437 | 13.83 | ≤30.00 | PASS |
| | | 2452 | 13.70 | ≤30.00 | PASS |





B.3 Maximum power spectral density

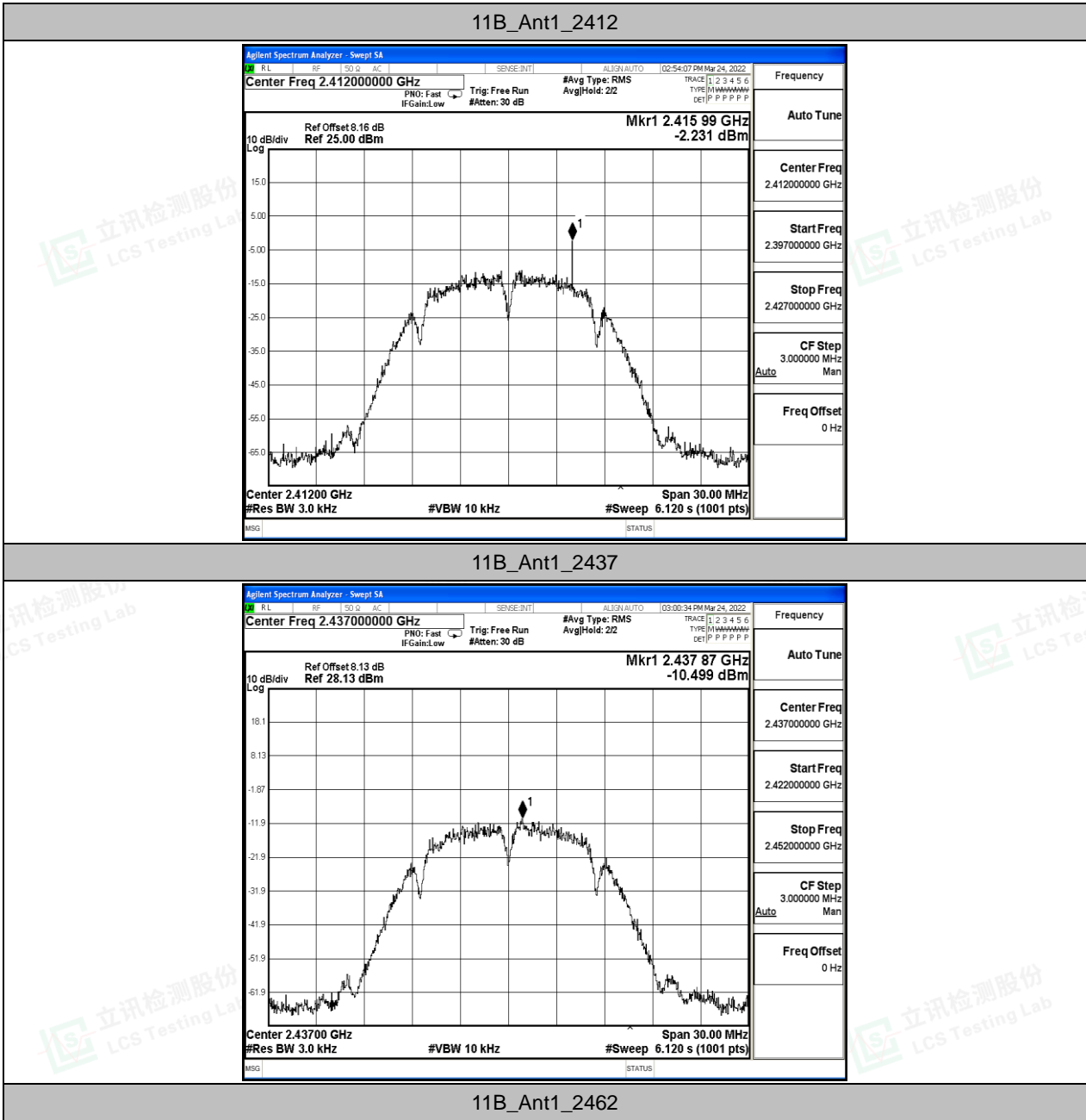
Test Result

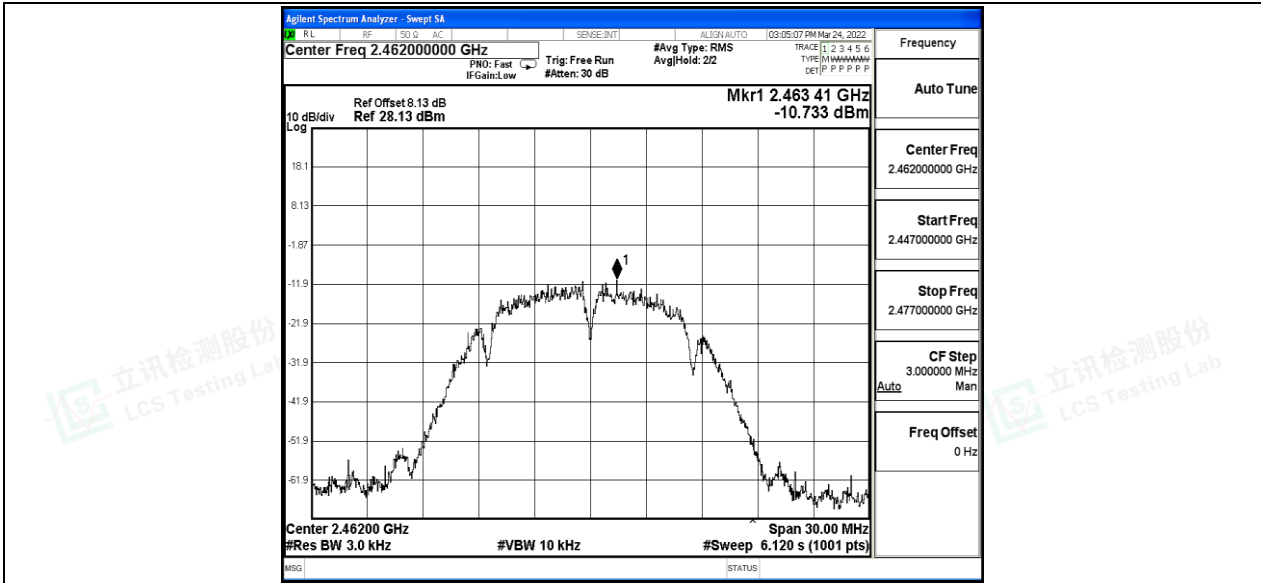
| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
| 11B | Ant1 | 2412 | -2.23 | ≤8.00 | PASS |
| | | 2437 | -10.5 | ≤8.00 | PASS |
| | | 2462 | -10.73 | ≤8.00 | PASS |
| 11G | Ant1 | 2412 | -18.89 | ≤8.00 | PASS |
| | | 2437 | -19.2 | ≤8.00 | PASS |
| | | 2462 | -18.95 | ≤8.00 | PASS |
| 11N20SISO | Ant1 | 2412 | -20.61 | ≤8.00 | PASS |
| | | 2437 | -20.17 | ≤8.00 | PASS |
| | | 2462 | -20.8 | ≤8.00 | PASS |
| 11N40SISO | Ant1 | 2422 | -21.98 | ≤8.00 | PASS |
| | | 2437 | -21.45 | ≤8.00 | PASS |
| | | 2452 | -22.17 | ≤8.00 | PASS |



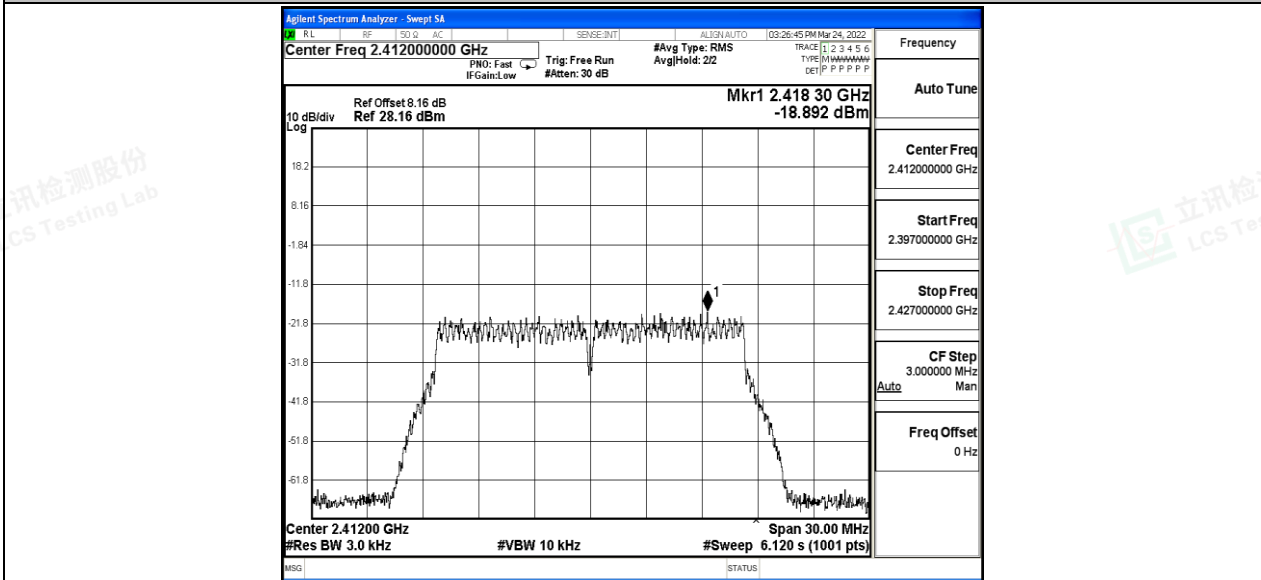


Test Graphs



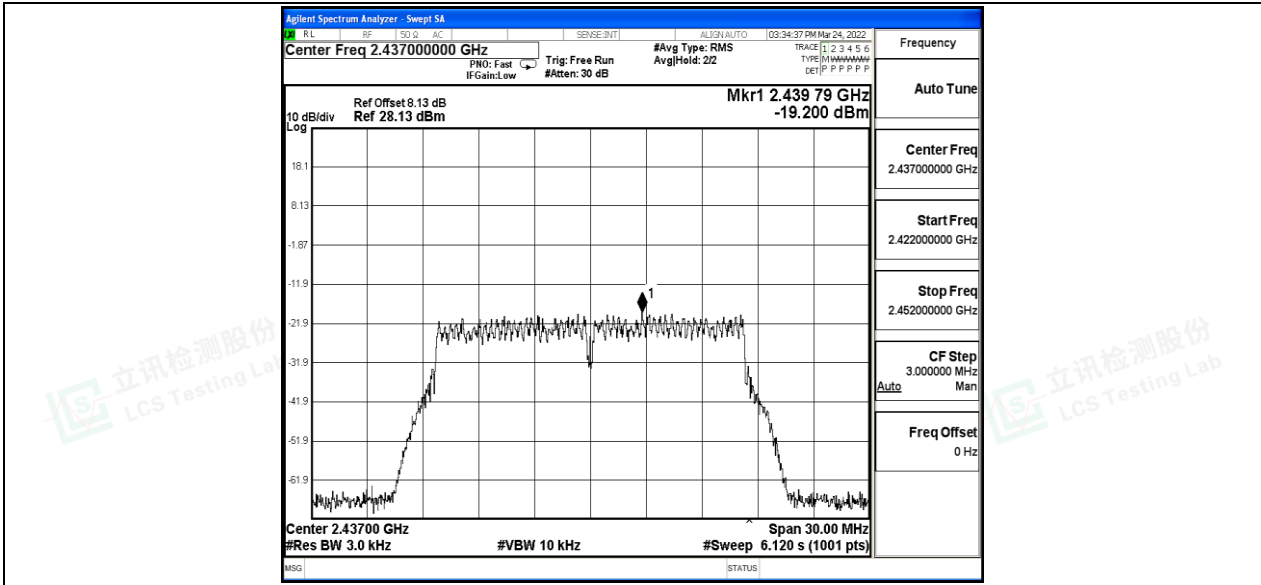


11G_Ant1_2412

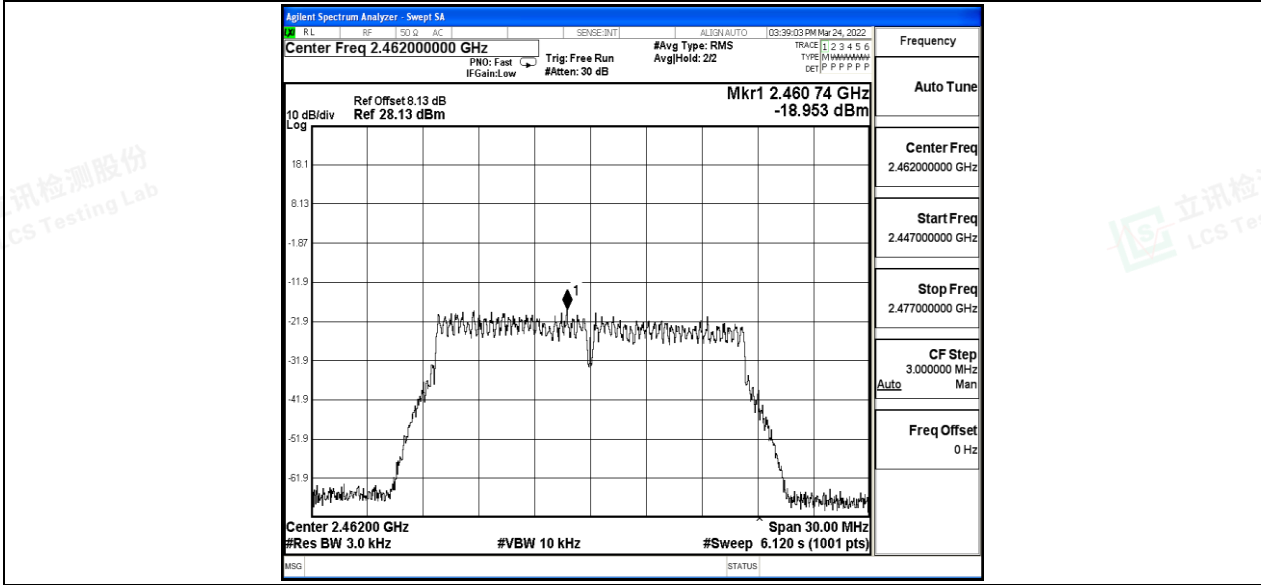


11G_Ant1_2437



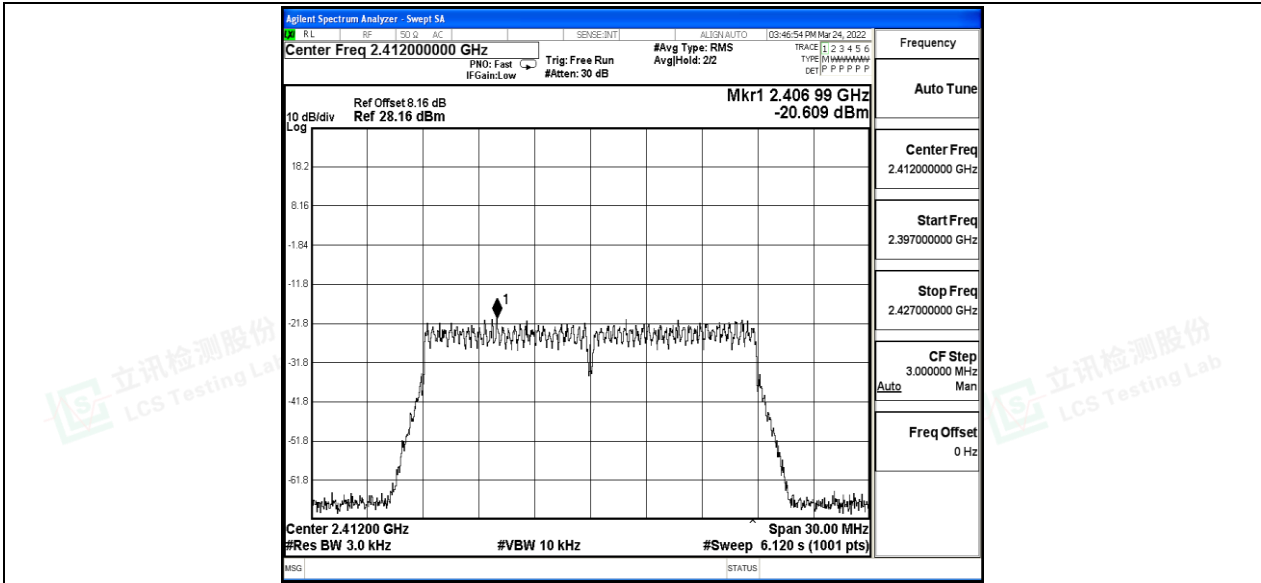


11G_Ant1_2462

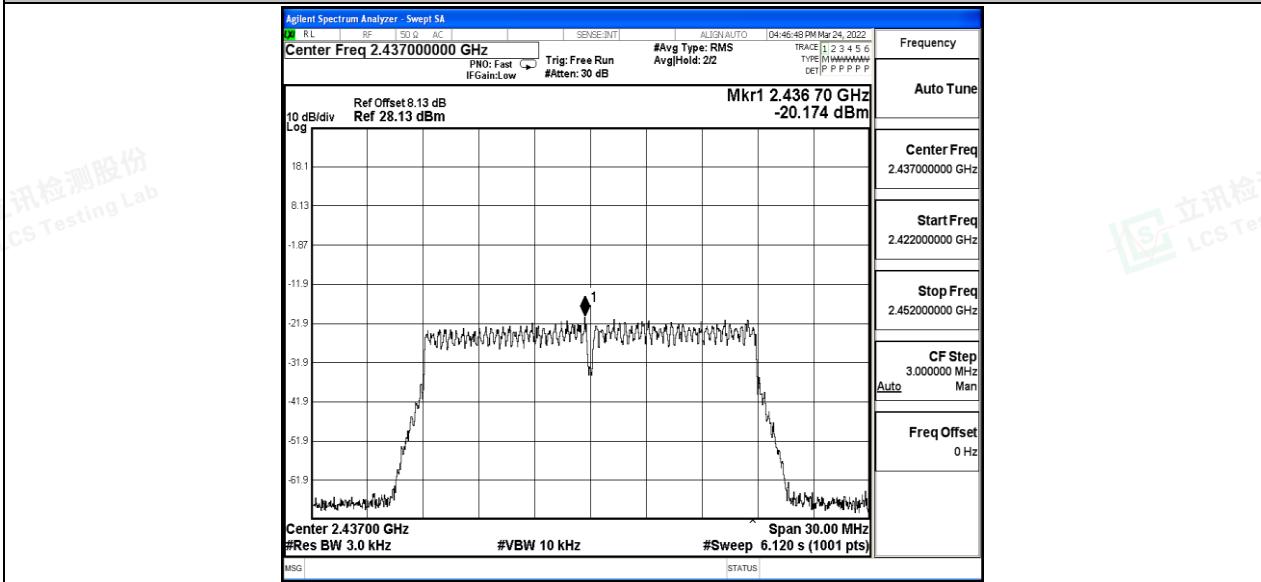


11N20SISO_Ant1_2412



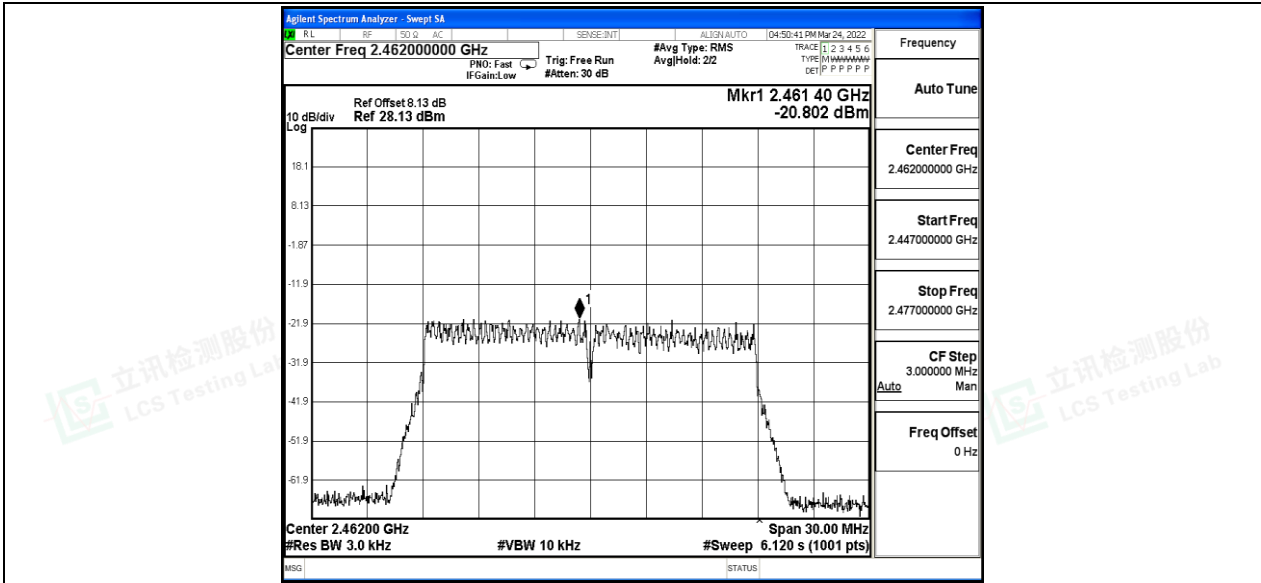


11N20SISO_Ant1_2437

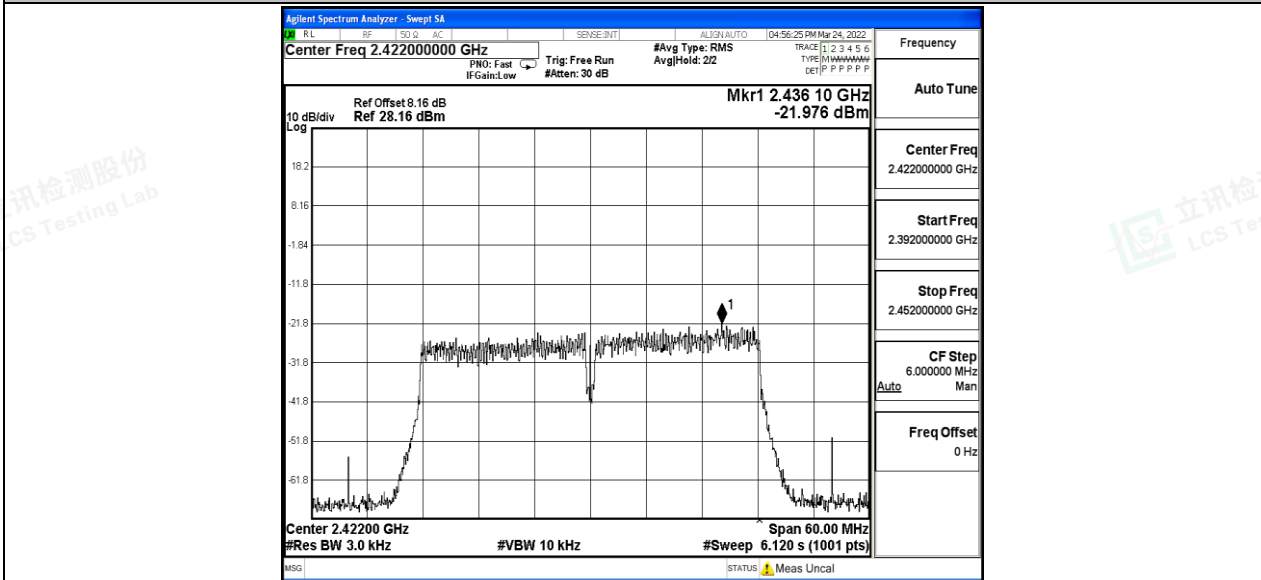


11N20SISO_Ant1_2462



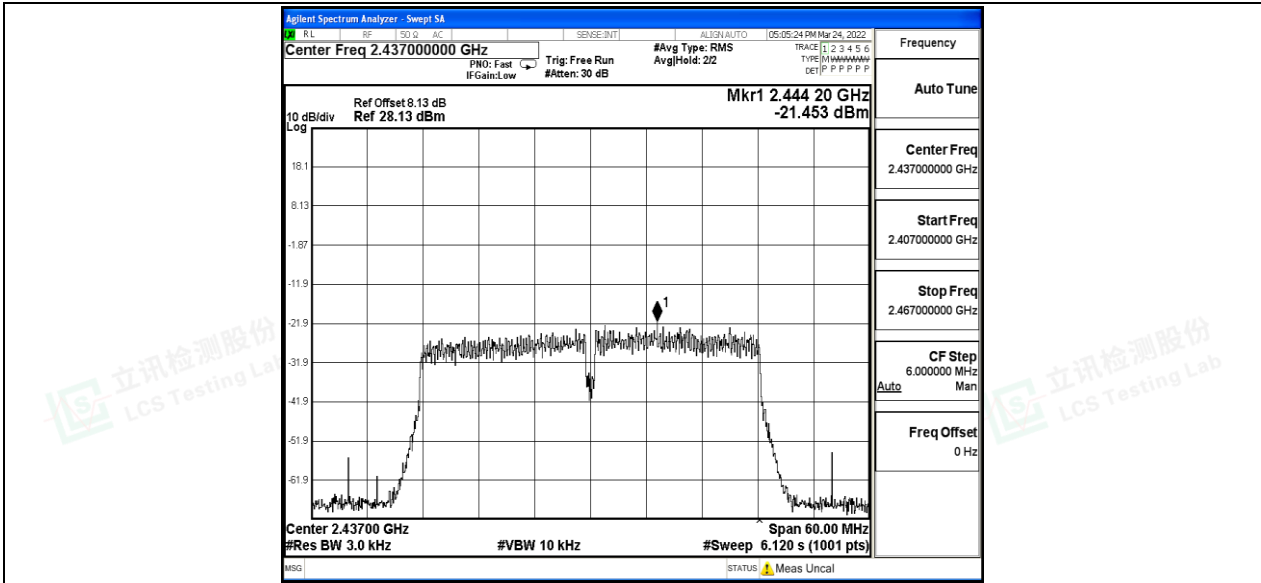


11N40SISO_Ant1_2422

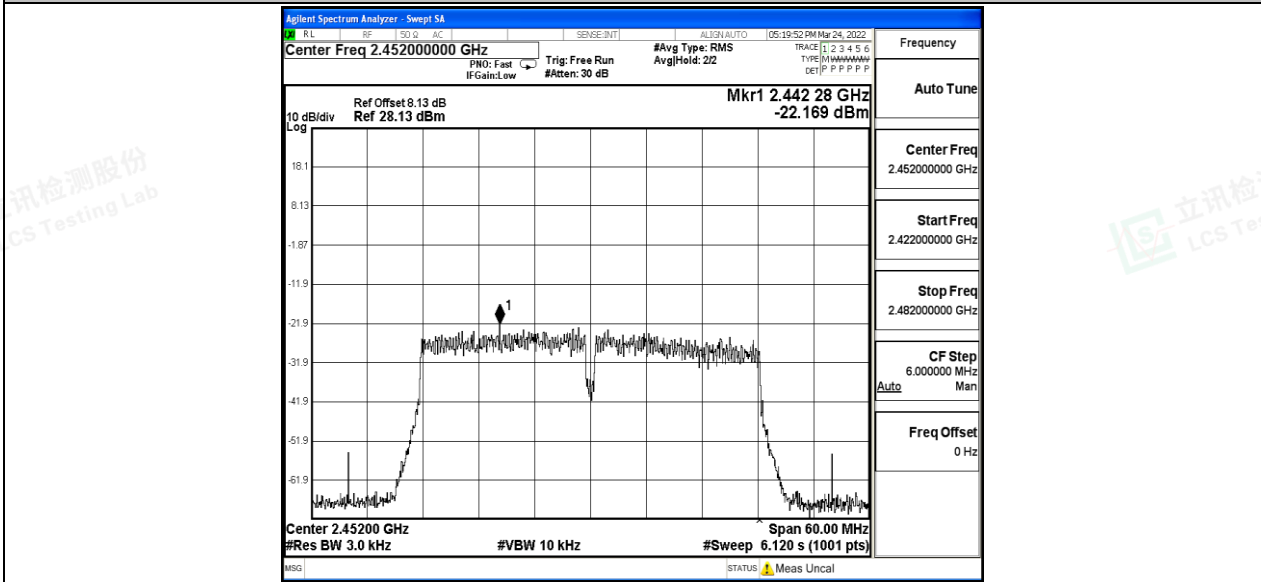


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.4 Band edge measurements

Test Result

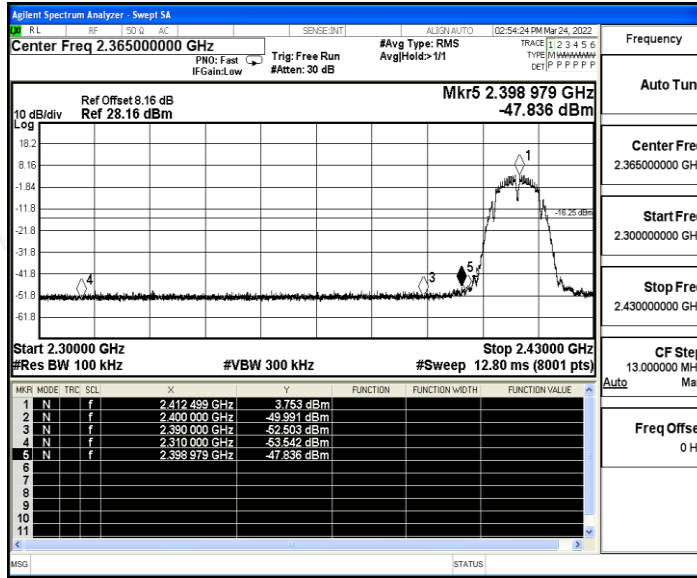
| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|---------|---------------|-------------|---------------|---------|
| 11B | Ant1 | Low | 2412 | 3.75 | -47.84 | ≤ -16.25 | PASS |
| | | High | 2462 | 3.05 | -46.85 | ≤ -16.95 | PASS |
| 11G | Ant1 | Low | 2412 | -4.64 | -48.84 | ≤ -24.64 | PASS |
| | | High | 2462 | -4.66 | -46.26 | ≤ -24.66 | PASS |
| 11N20SISO | Ant1 | Low | 2412 | -5.70 | -47.24 | ≤ -25.7 | PASS |
| | | High | 2462 | -4.98 | -45.98 | ≤ -24.98 | PASS |
| 11N40SISO | Ant1 | Low | 2422 | -8.60 | -48.39 | ≤ -28.6 | PASS |
| | | High | 2452 | -7.89 | -48.11 | ≤ -27.89 | PASS |



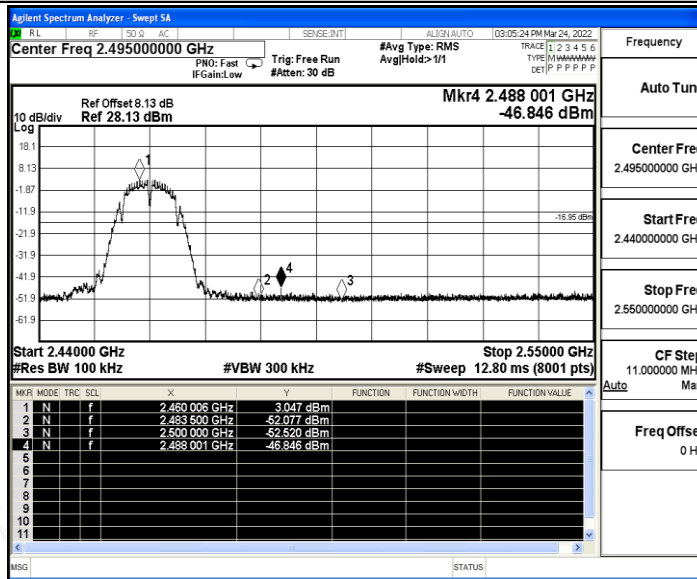


Test Graphs

11B_Ant1_Low_2412

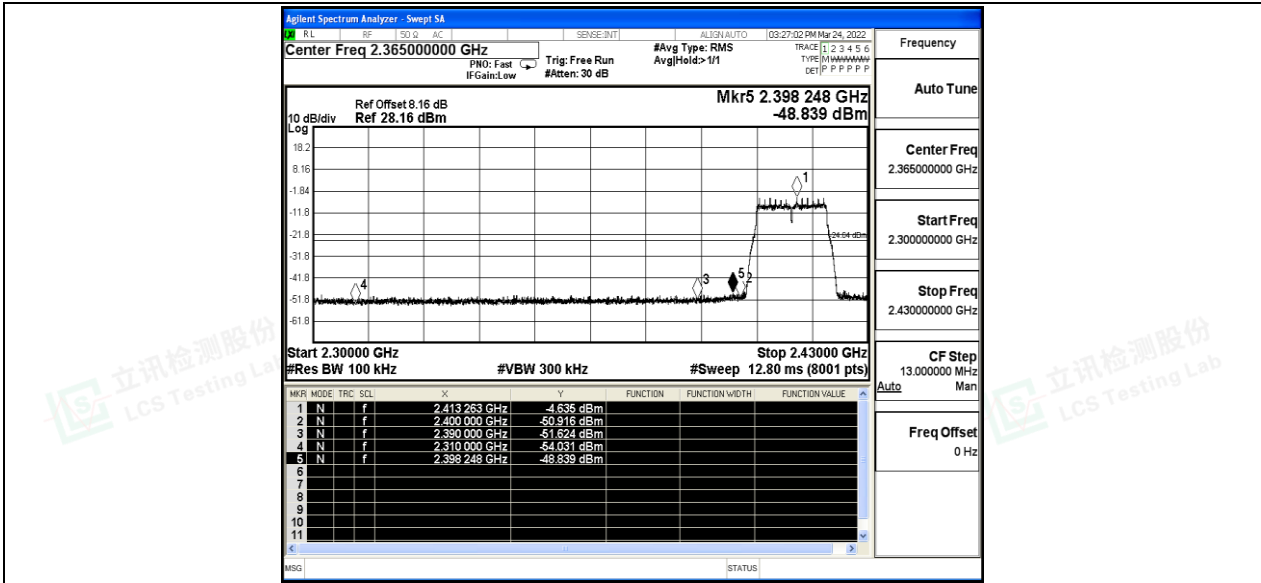


11B_Ant1_High_2462

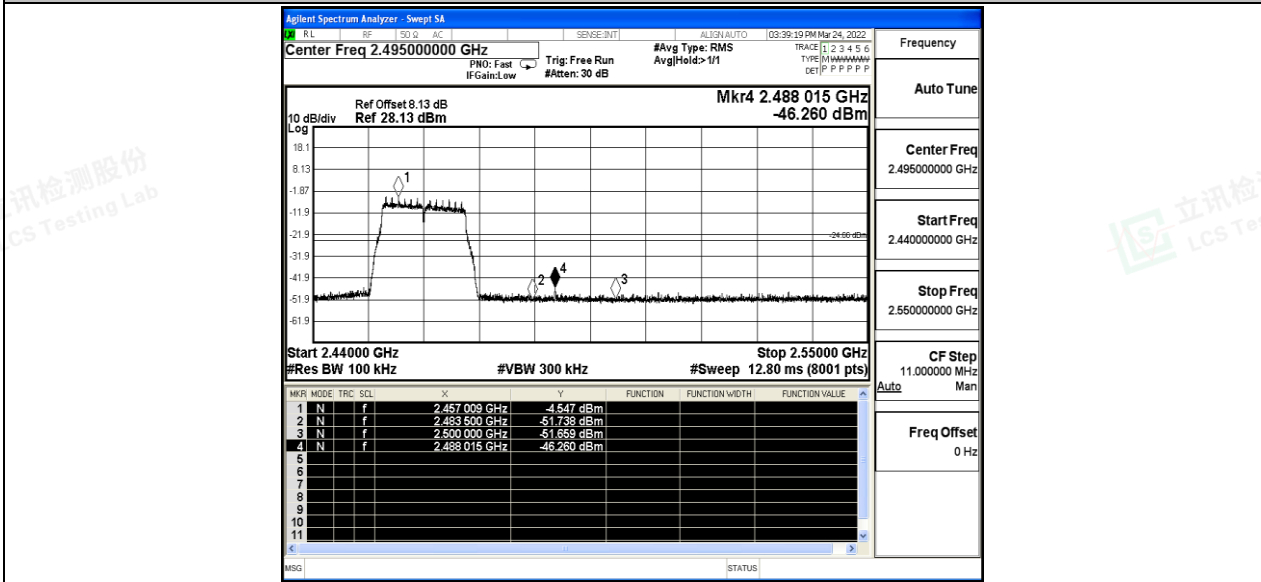


11G_Ant1_Low_2412



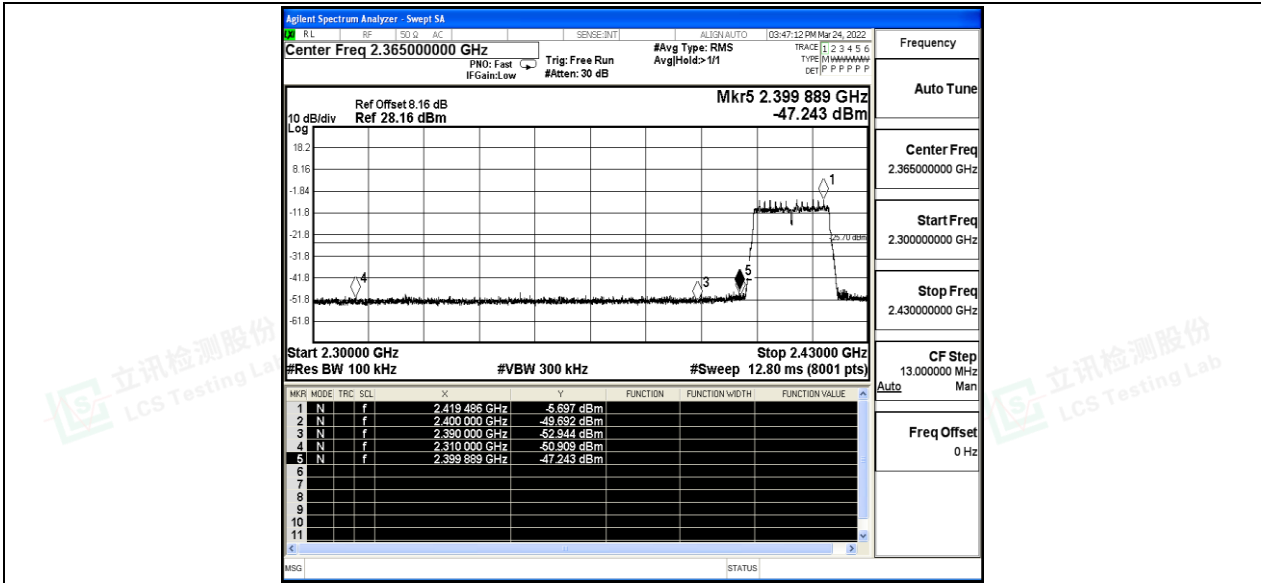


11G_Ant1_High_2462

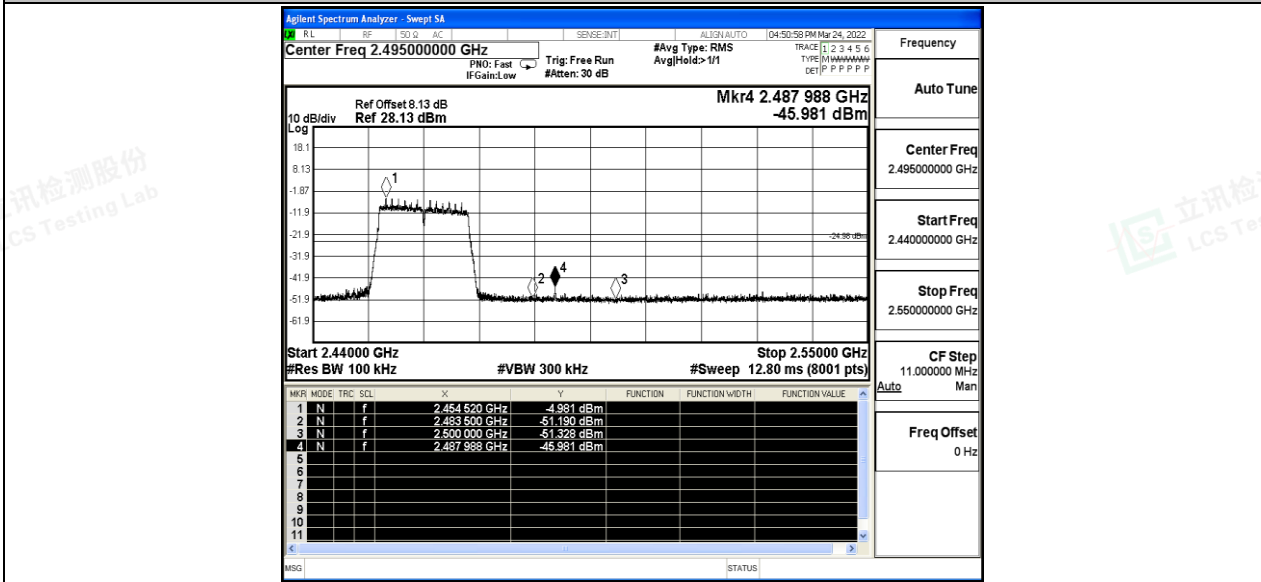


11N20SISO_Ant1_Low_2412



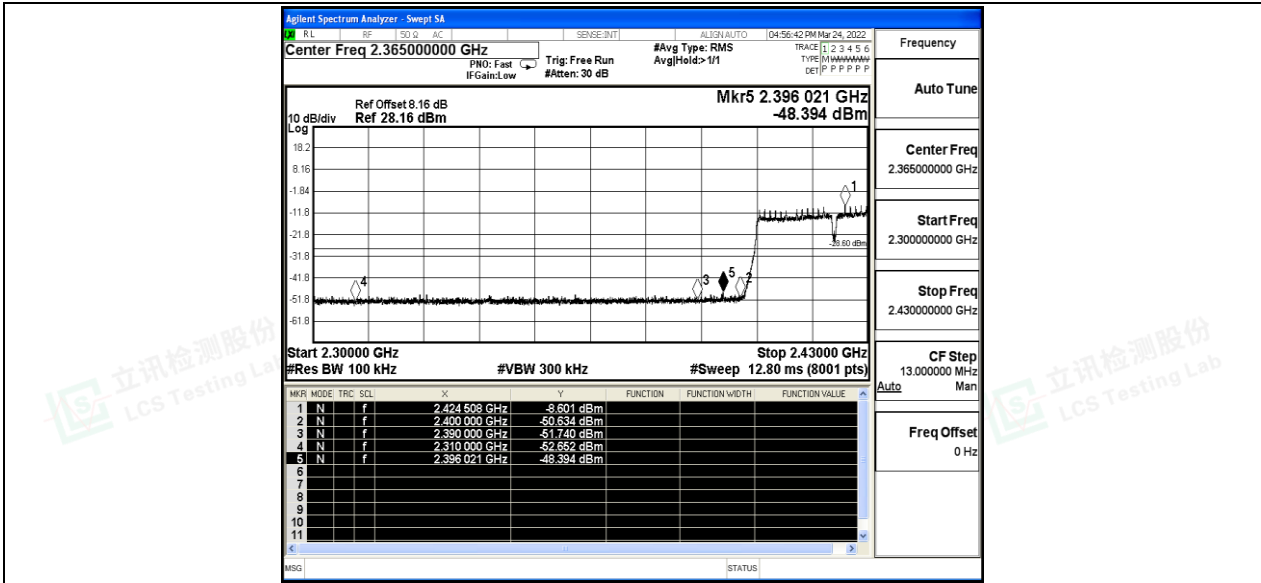


11N20SISO_Ant1_High_2462

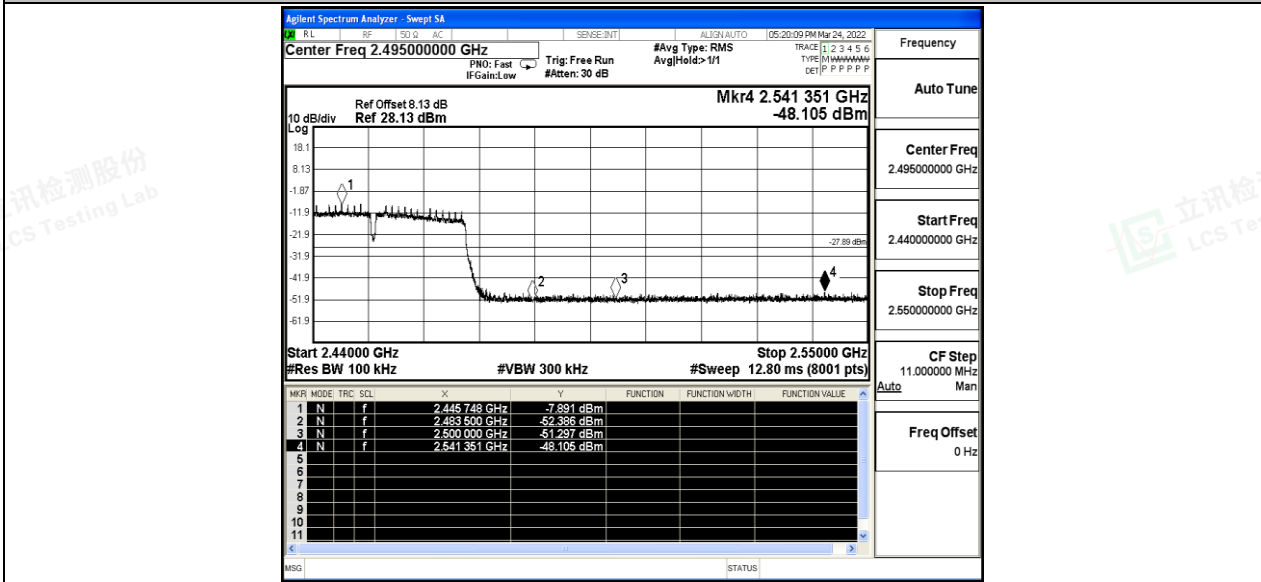


11N40SISO_Ant1_Low_2422





11N40SISO_Ant1_High_2452





B.5 Conducted Spurious Emission

Test Result

| TestMode | Antenna | Channel | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict | |
|-----------|---------|---------|-----------------|----------------|--------------|-------------|---------|------|
| 11B | Ant1 | 2412 | Reference | 3.68 | 3.68 | --- | PASS | |
| | | | 30~1000 | 3.68 | -42.11 | ≤-16.32 | PASS | |
| | | | 1000~26500 | 3.68 | -46.97 | ≤-16.32 | PASS | |
| | | 2437 | Ant1 | Reference | 3.74 | 3.74 | --- | PASS |
| | | | | 30~1000 | 3.74 | -53.02 | ≤-16.26 | PASS |
| | | | | 1000~26500 | 3.74 | -46.65 | ≤-16.26 | PASS |
| | | 2462 | Ant1 | Reference | 2.71 | 2.71 | --- | PASS |
| | | | | 30~1000 | 2.71 | -48.4 | ≤-17.29 | PASS |
| | | | | 1000~26500 | 2.71 | -47.12 | ≤-17.29 | PASS |
| 11G | Ant1 | 2412 | Reference | -4.63 | -4.63 | --- | PASS | |
| | | | 30~1000 | -4.63 | -54.18 | ≤-24.63 | PASS | |
| | | | 1000~26500 | -4.63 | -46 | ≤-24.63 | PASS | |
| | | 2437 | Ant1 | Reference | -4.01 | -4.01 | --- | PASS |
| | | | | 30~1000 | -4.01 | -53.55 | ≤-24.01 | PASS |
| | | | | 1000~26500 | -4.01 | -46.61 | ≤-24.01 | PASS |
| | | 2462 | Ant1 | Reference | -4.46 | -4.46 | --- | PASS |
| | | | | 30~1000 | -4.46 | -54.31 | ≤-24.46 | PASS |
| | | | | 1000~26500 | -4.46 | -46.76 | ≤-24.46 | PASS |
| 11N20SISO | Ant1 | 2412 | Reference | -5.63 | -5.63 | --- | PASS | |
| | | | 30~1000 | -5.63 | -53.02 | ≤-25.63 | PASS | |
| | | | 1000~26500 | -5.63 | -46.26 | ≤-25.63 | PASS | |
| | | 2437 | Ant1 | Reference | -5.38 | -5.38 | --- | PASS |
| | | | | 30~1000 | -5.38 | -55.68 | ≤-25.38 | PASS |
| | | | | 1000~26500 | -5.38 | -46.35 | ≤-25.38 | PASS |
| | | 2462 | Ant1 | Reference | -5.23 | -5.23 | --- | PASS |
| | | | | 30~1000 | -5.23 | -55.74 | ≤-25.23 | PASS |
| | | | | 1000~26500 | -5.23 | -46.62 | ≤-25.23 | PASS |
| 11N40SISO | Ant1 | 2422 | Reference | -7.64 | -7.64 | --- | PASS | |
| | | | 30~1000 | -7.64 | -54.5 | ≤-27.64 | PASS | |
| | | | 1000~26500 | -7.64 | -46.79 | ≤-27.64 | PASS | |
| | | 2437 | Ant1 | Reference | -7.89 | -7.89 | --- | PASS |
| | | | | 30~1000 | -7.89 | -54.9 | ≤-27.89 | PASS |
| | | | | 1000~26500 | -7.89 | -46.58 | ≤-27.89 | PASS |
| | | 2452 | Ant1 | Reference | -8.01 | -8.01 | --- | PASS |
| | | | | 30~1000 | -8.01 | -54.78 | ≤-28.01 | PASS |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

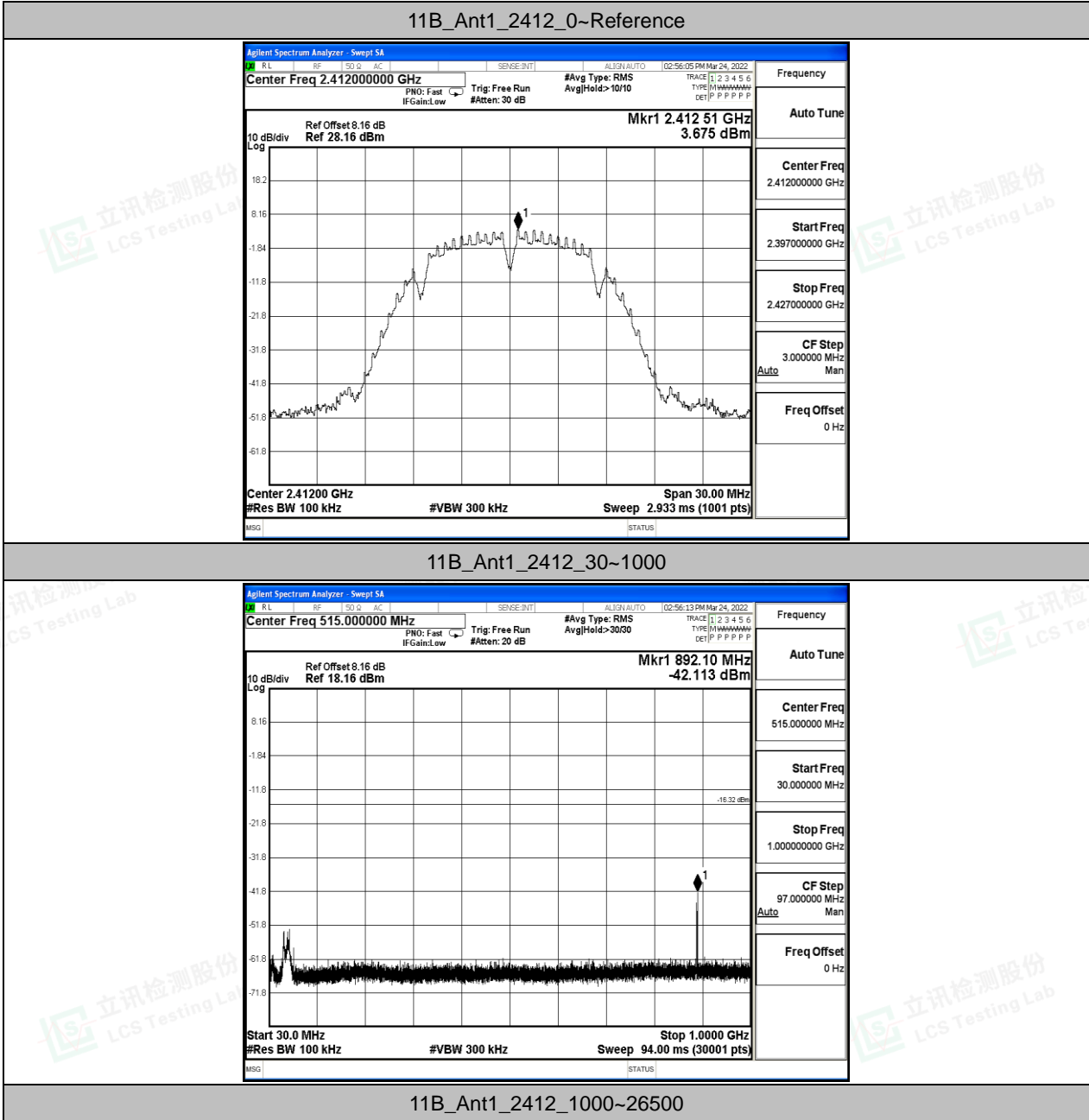
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

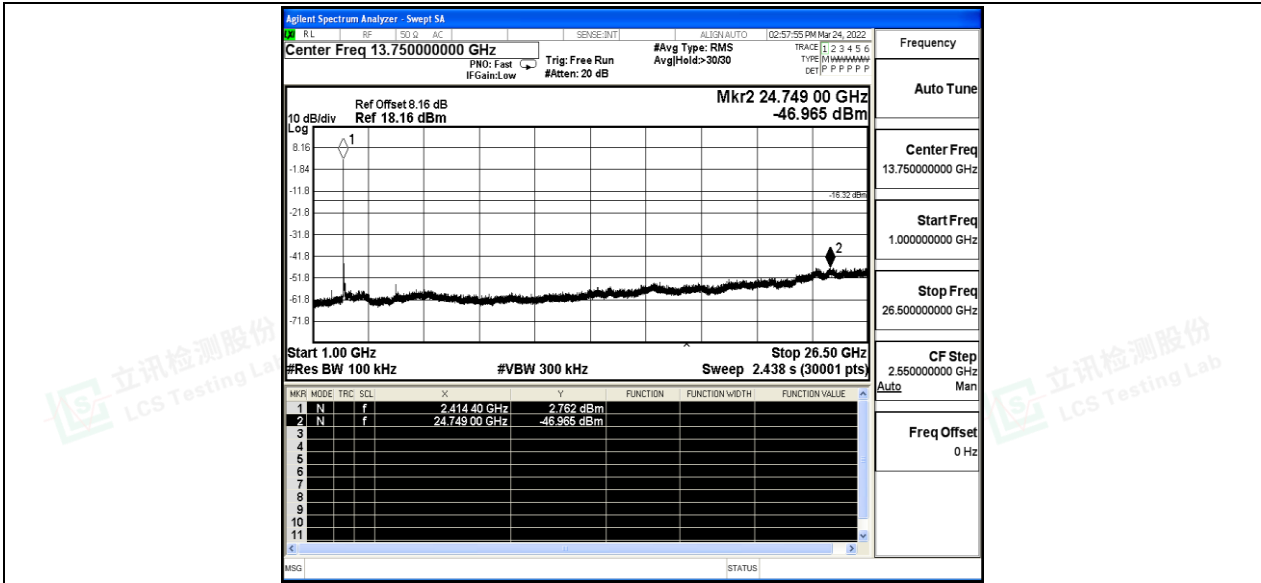
Scan code to check authenticity



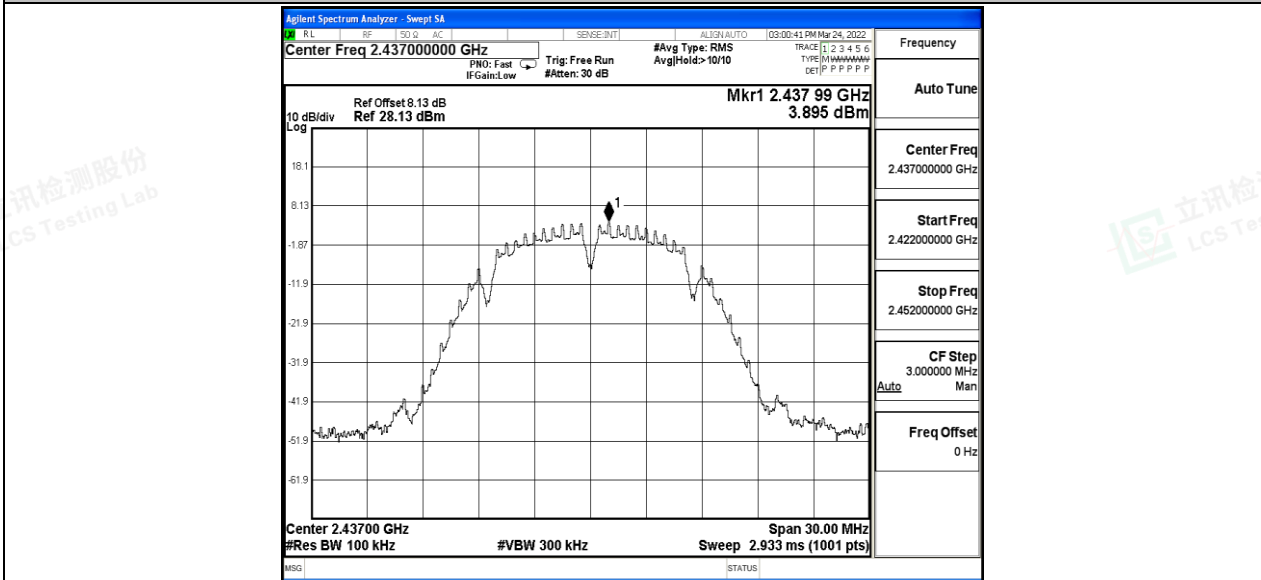
| | | | | | | | |
|--|--|--|------------|-------|--------|---------|------|
| | | | 1000~26500 | -8.01 | -46.56 | ≤-28.01 | PASS |
|--|--|--|------------|-------|--------|---------|------|

Test Graphs



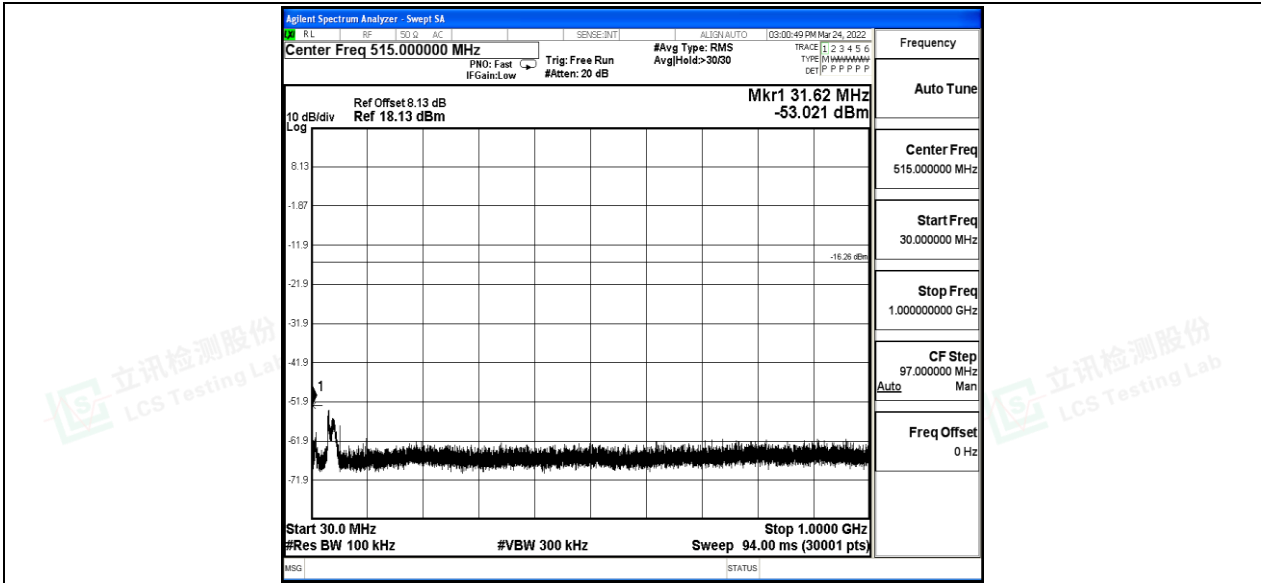


11B_Ant1_2437_0~Reference

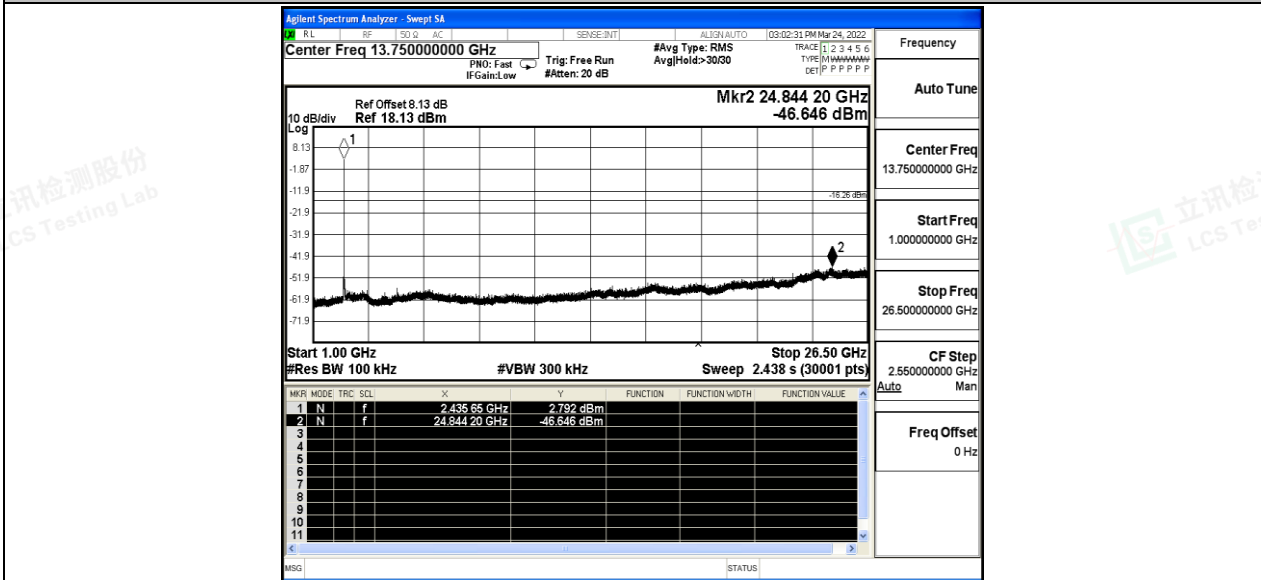


11B_Ant1_2437_30~1000



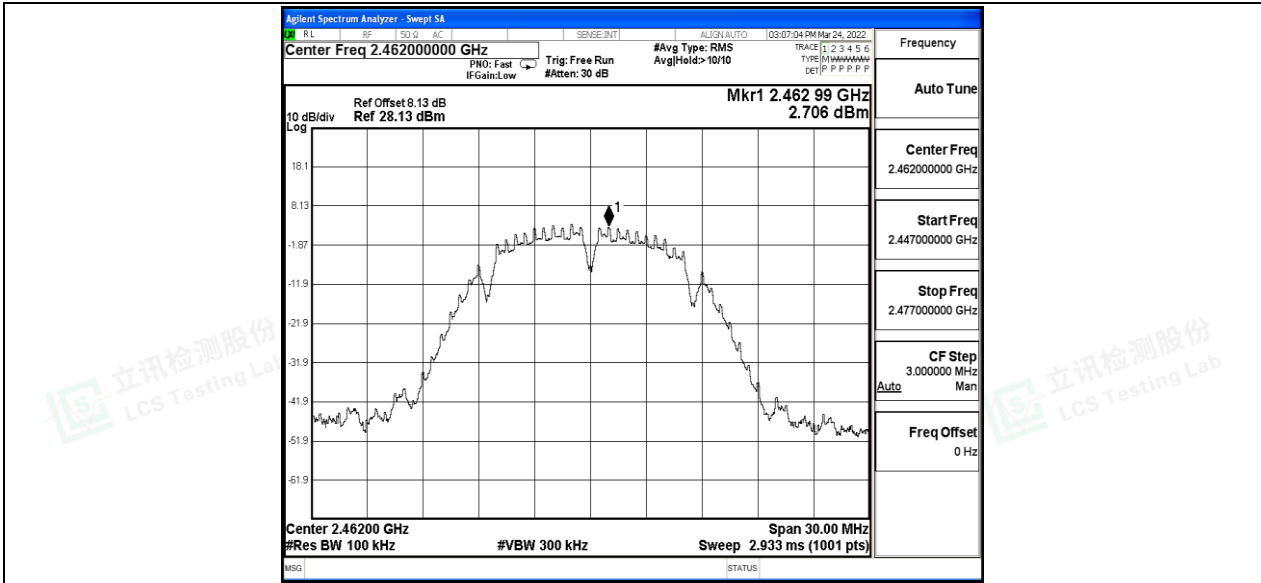


11B_Ant1_2437_100~26500

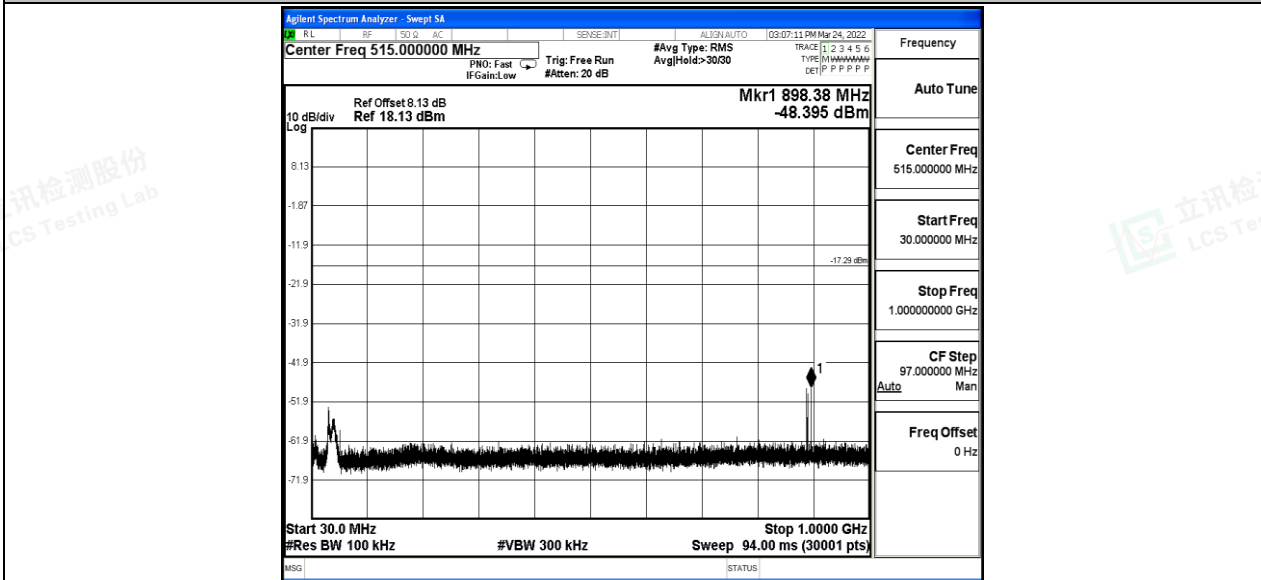


11B_Ant1_2462_0~Reference



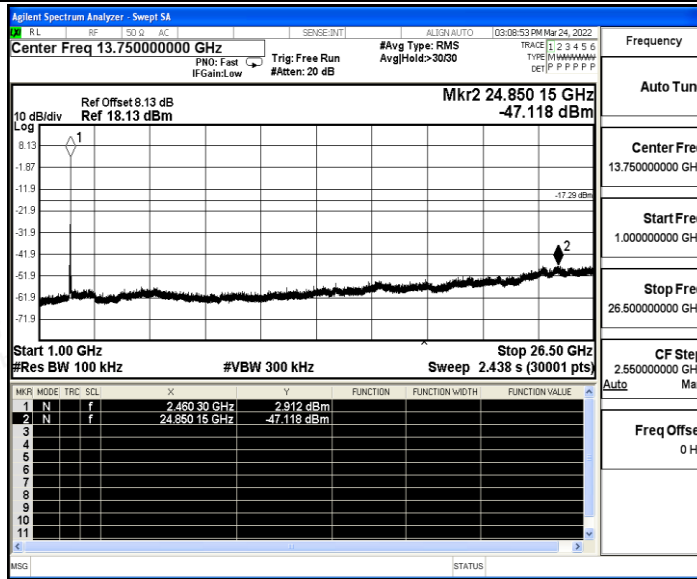


11B_Ant1_2462_30~1000

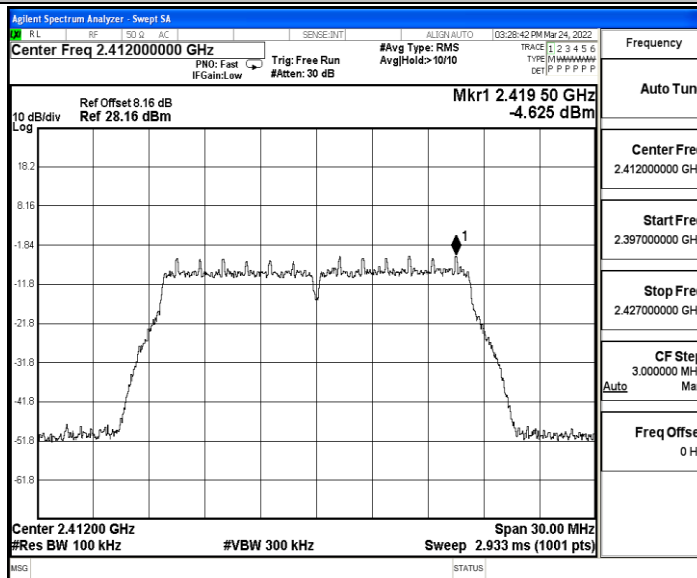


11B_Ant1_2462_1000~26500



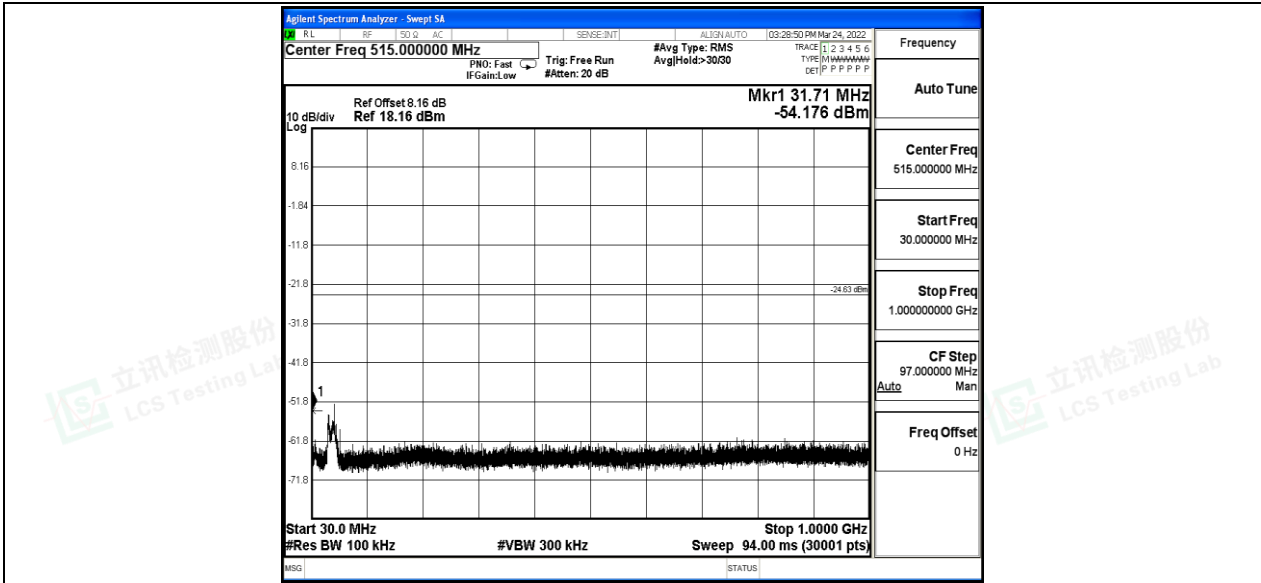


11G_Ant1_2412_0~Reference

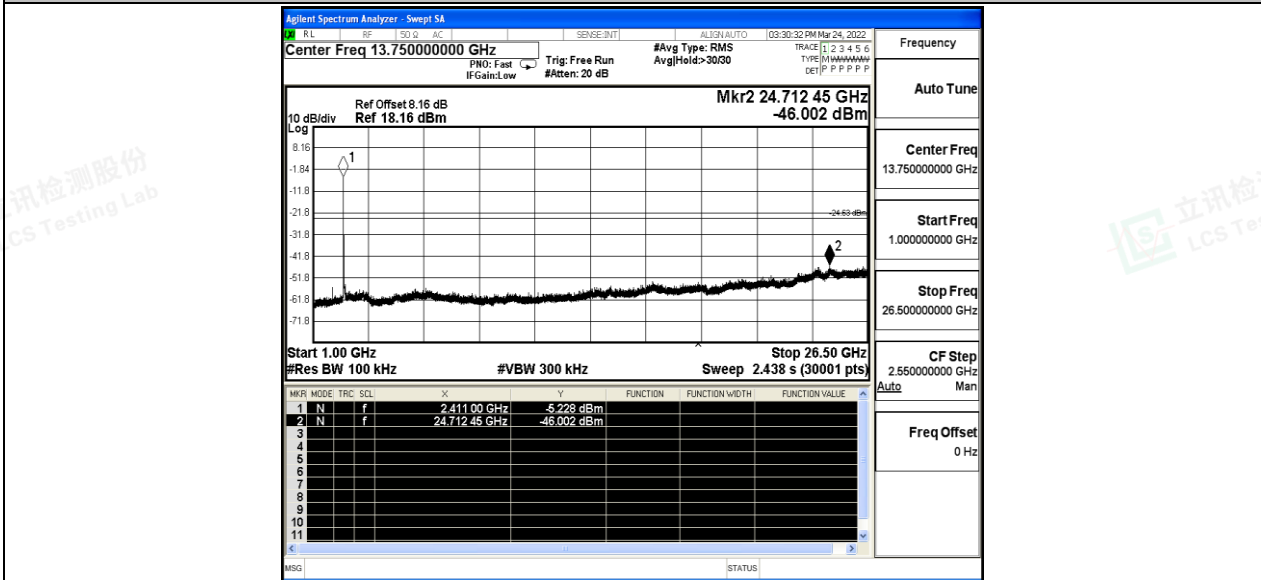


11G_Ant1_2412_30~1000



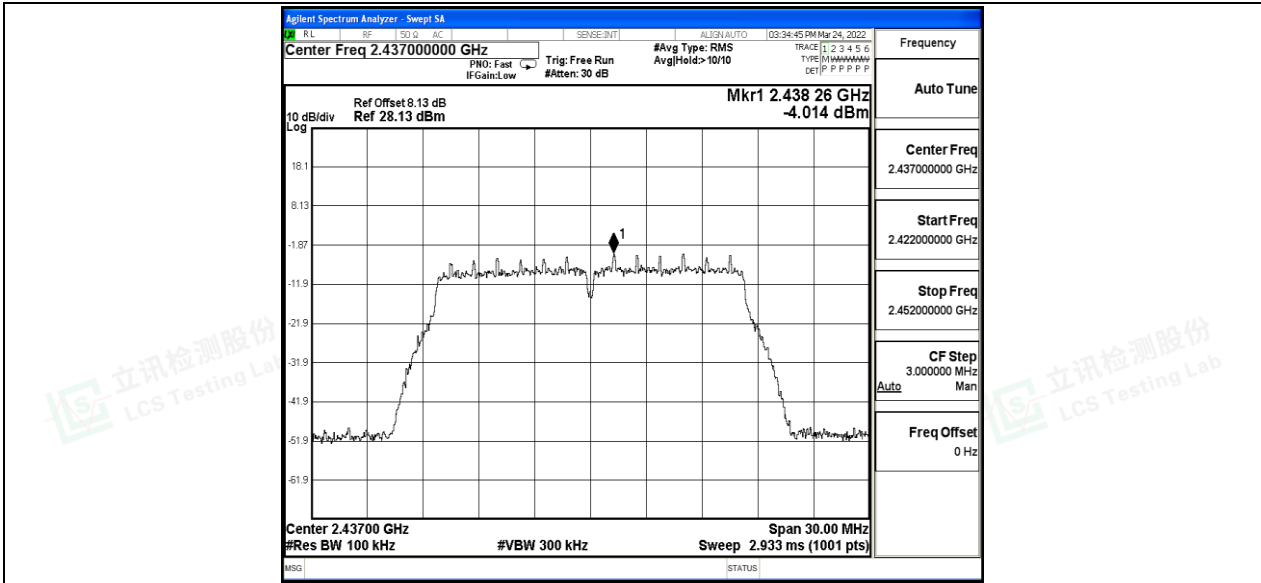


11G_Ant1_2412_1000~26500

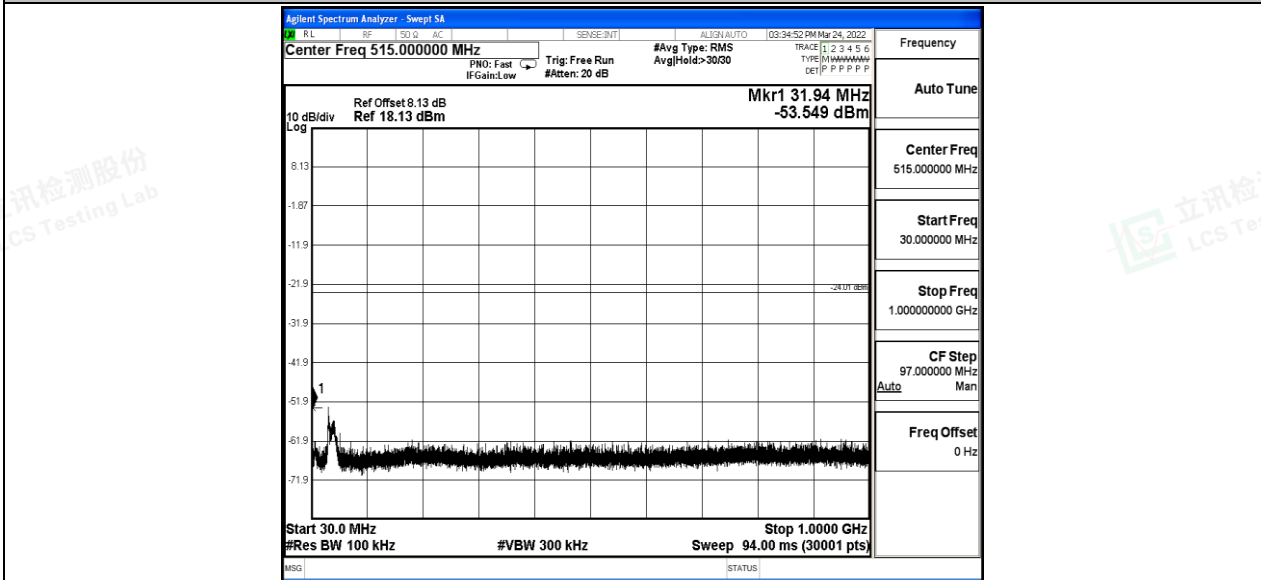


11G_Ant1_2437_0~Reference



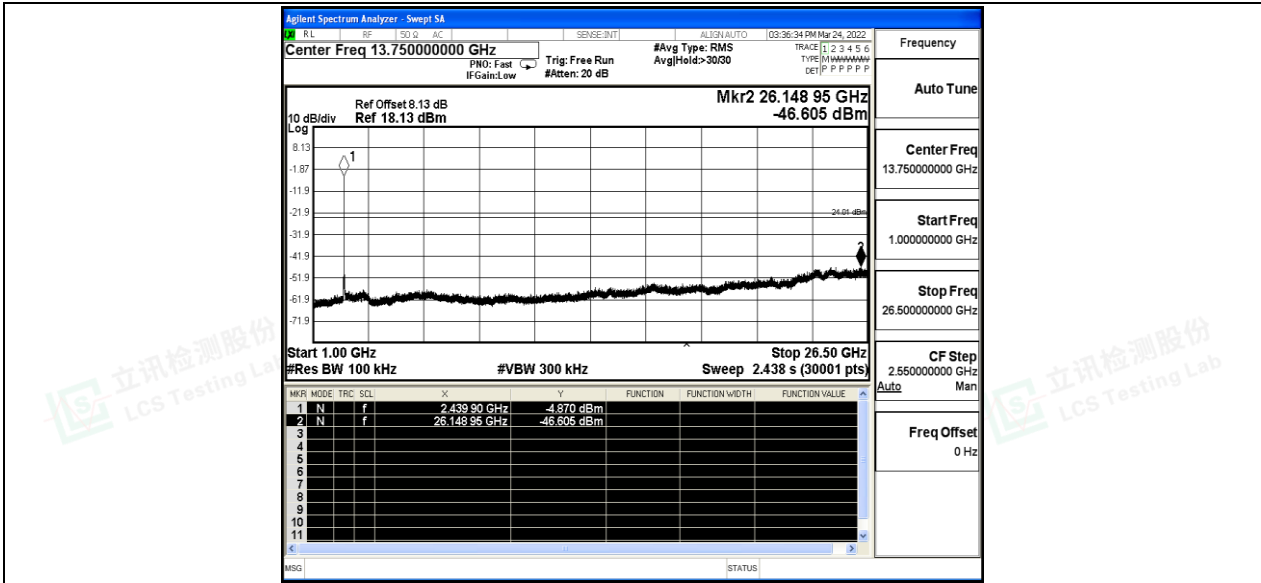


11G_Ant1_2437_30~1000

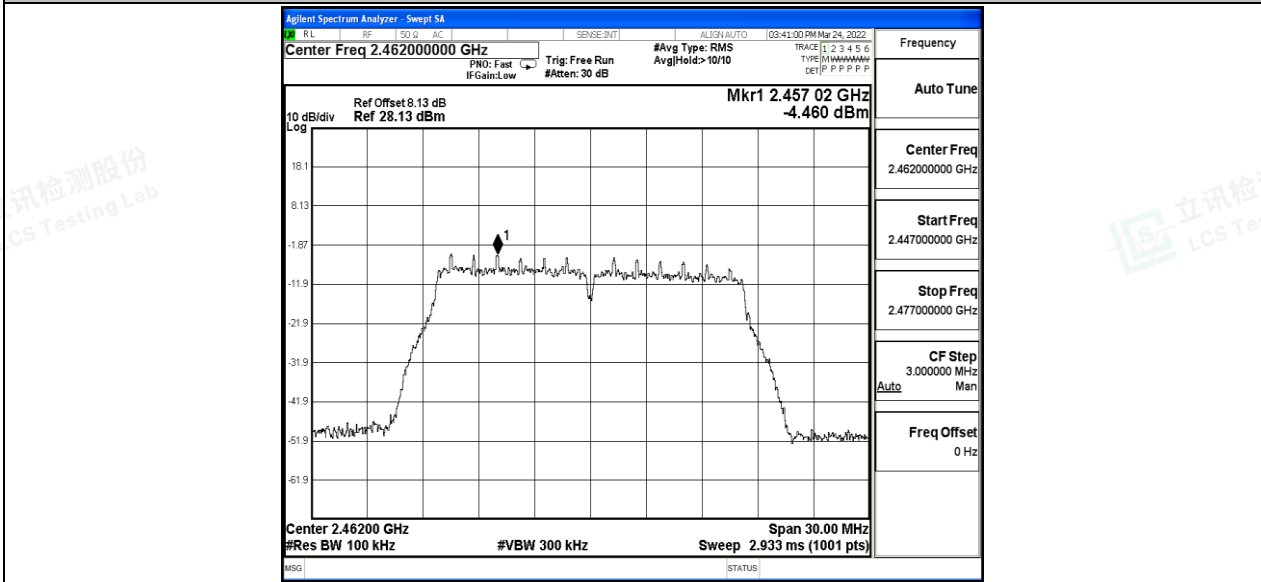


11G_Ant1_2437_1000~26500





11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

