



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Mobile Computer

Test Model: C7X

Environmental Conditions

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





## C.1 6dB Bandwidth

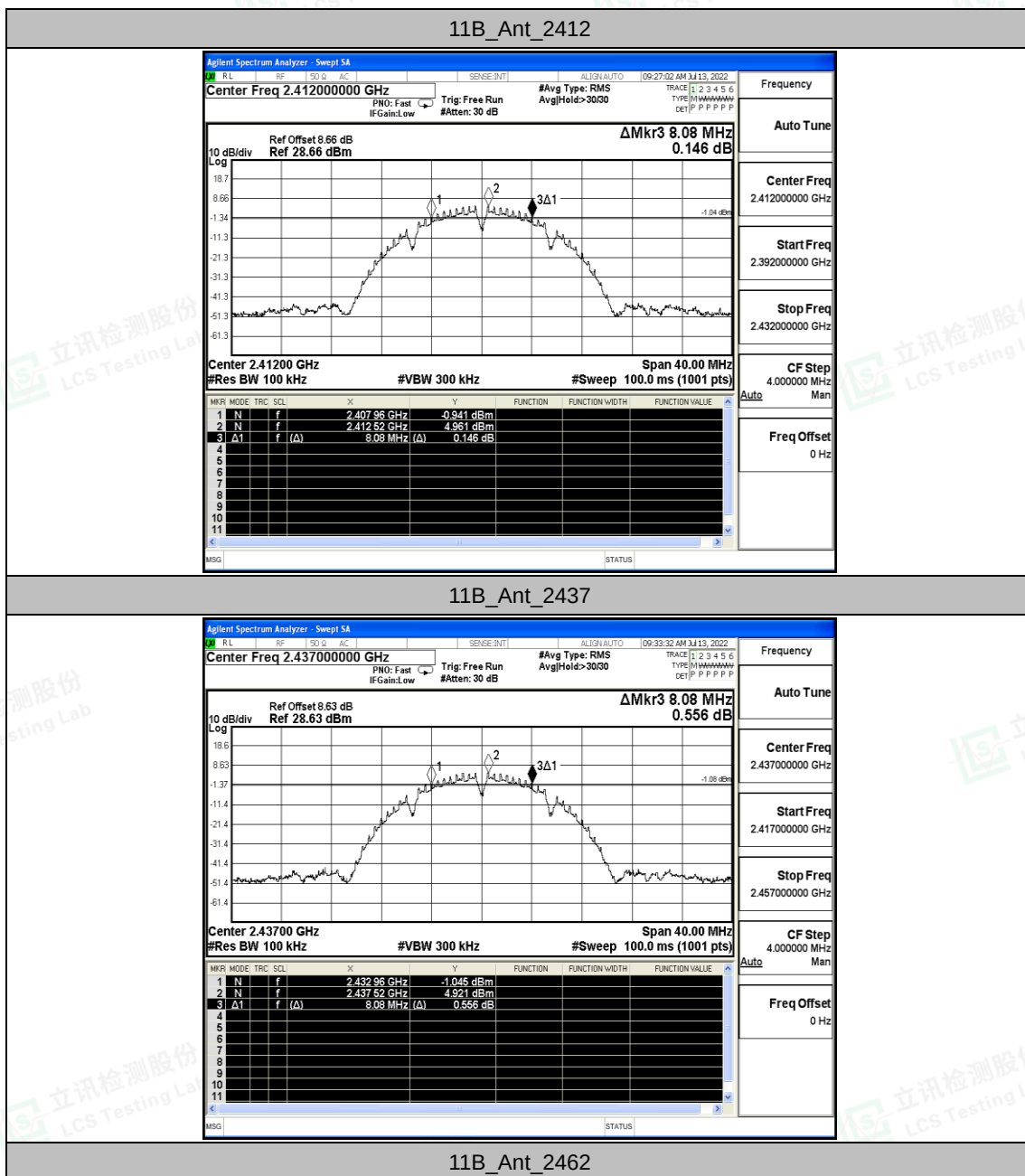
### Test Result

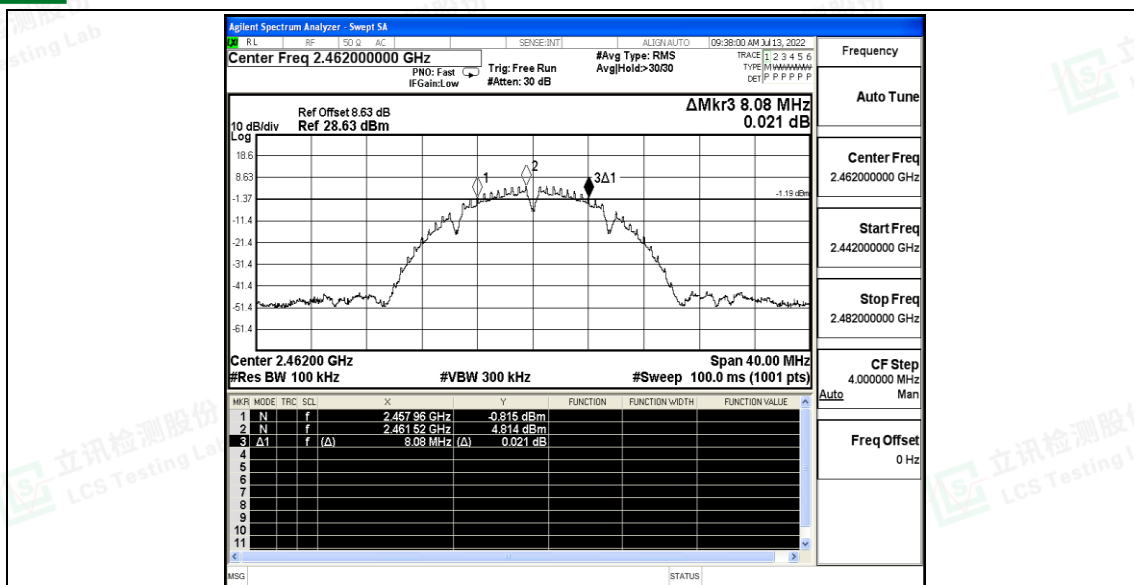
| TestMode  | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B       | Ant     | 2412    | 8.080        | 2407.960 | 2416.040 | 0.5        | PASS    |
|           |         | 2437    | 8.080        | 2432.960 | 2441.040 | 0.5        | PASS    |
|           |         | 2462    | 8.080        | 2457.960 | 2466.040 | 0.5        | PASS    |
| 11G       | Ant     | 2412    | 15.080       | 2404.440 | 2419.520 | 0.5        | PASS    |
|           |         | 2437    | 15.120       | 2429.440 | 2444.560 | 0.5        | PASS    |
|           |         | 2462    | 15.120       | 2454.440 | 2469.560 | 0.5        | PASS    |
| 11N20SISO | Ant     | 2412    | 15.280       | 2404.280 | 2419.560 | 0.5        | PASS    |
|           |         | 2437    | 15.120       | 2429.440 | 2444.560 | 0.5        | PASS    |
|           |         | 2462    | 15.120       | 2454.440 | 2469.560 | 0.5        | PASS    |
| 11N40SISO | Ant     | 2422    | 35.040       | 2404.480 | 2439.520 | 0.5        | PASS    |
|           |         | 2437    | 35.040       | 2419.480 | 2454.520 | 0.5        | PASS    |
|           |         | 2452    | 35.040       | 2434.480 | 2469.520 | 0.5        | PASS    |



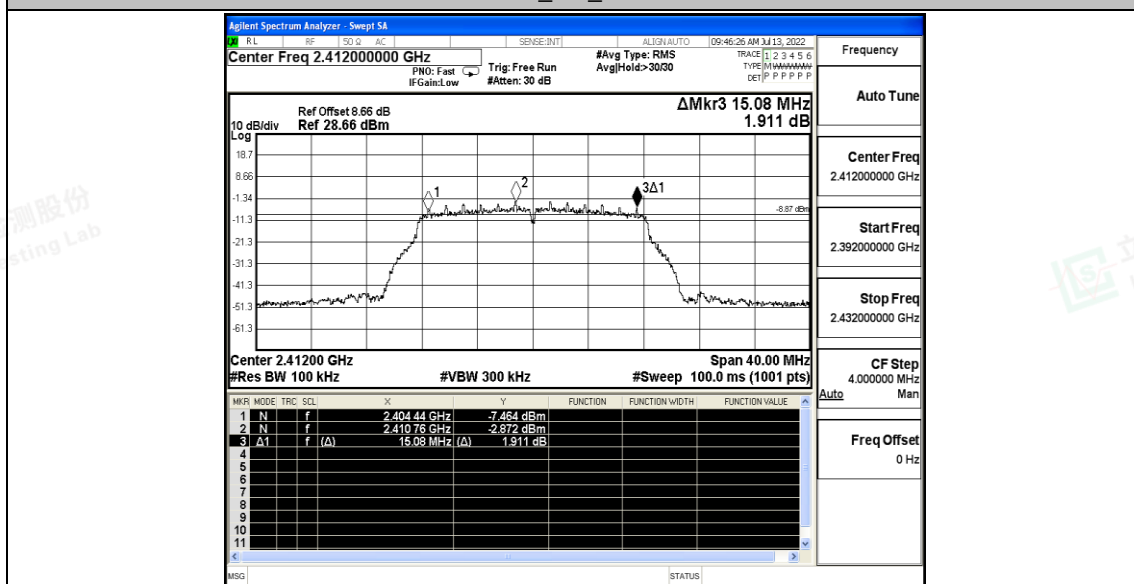


## Test Graphs



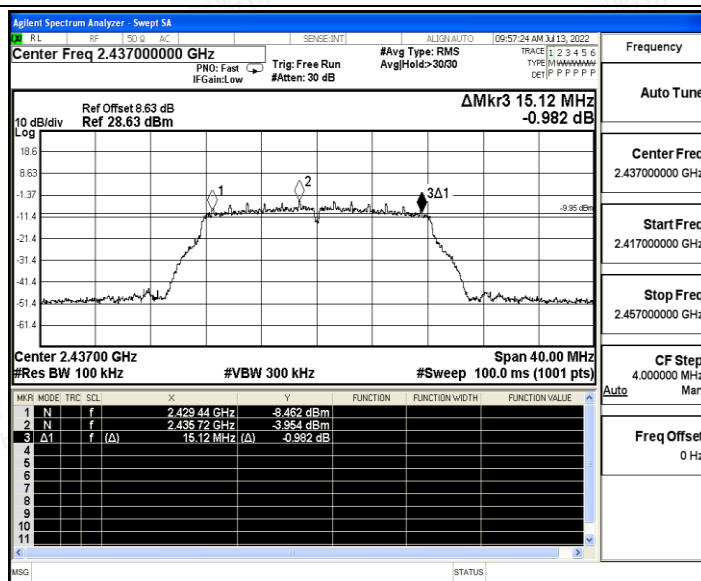


11G\_Ant\_2412

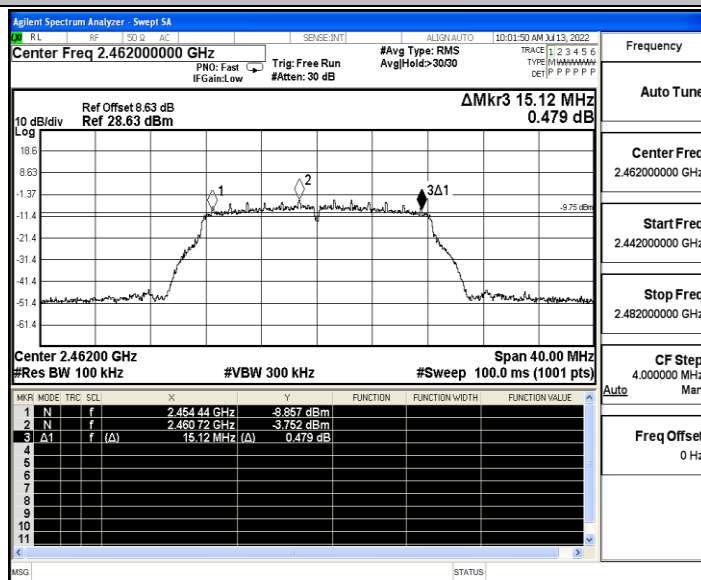


11G\_Ant\_2437



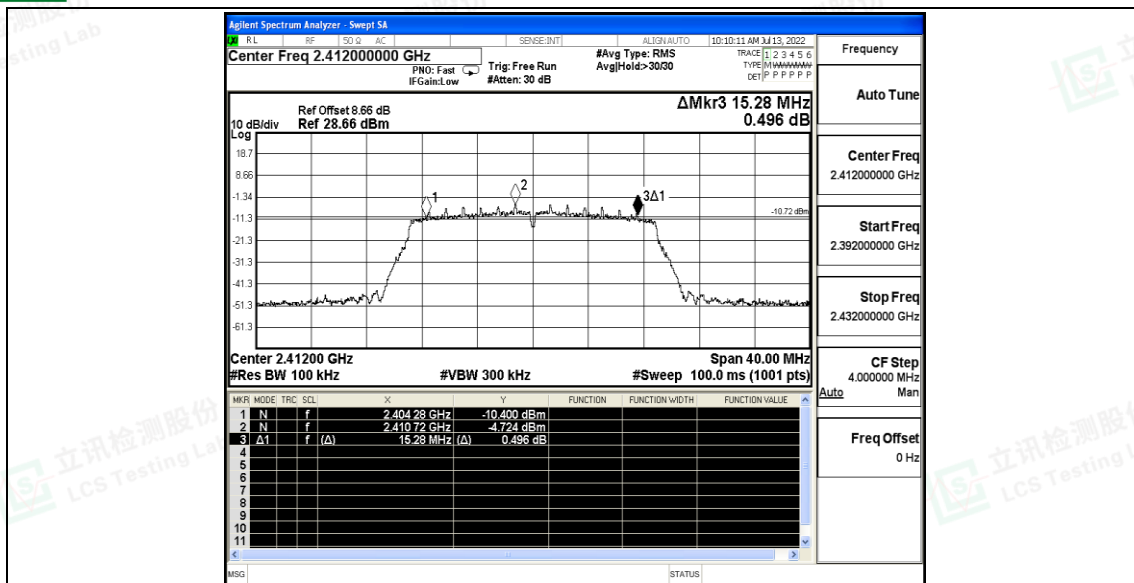


11G\_Ant\_2462

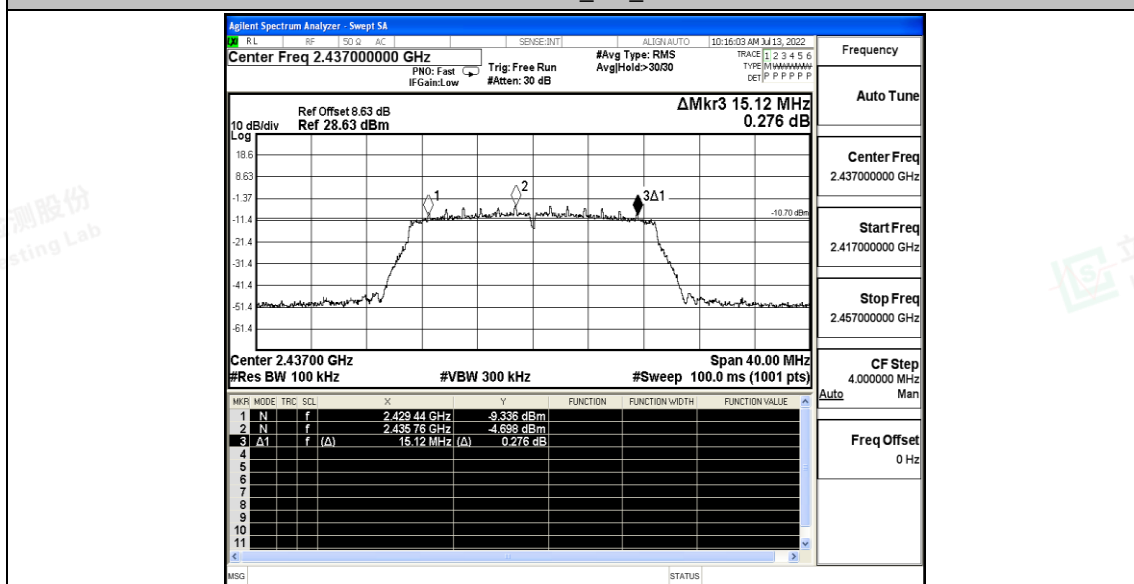


11N20SISO\_Ant\_2412



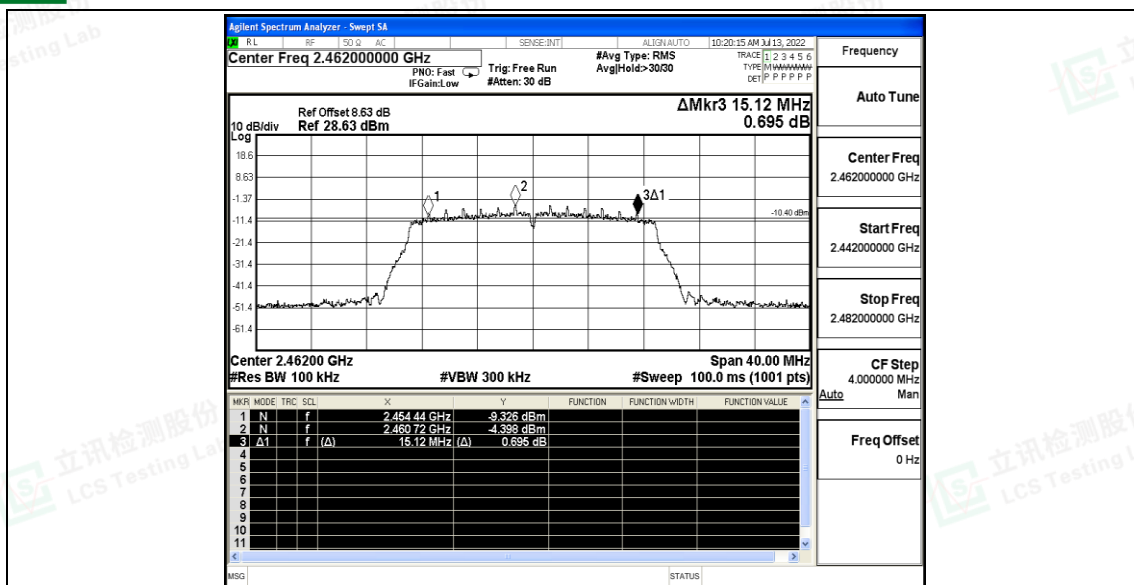


11N20SISO\_Ant\_2437

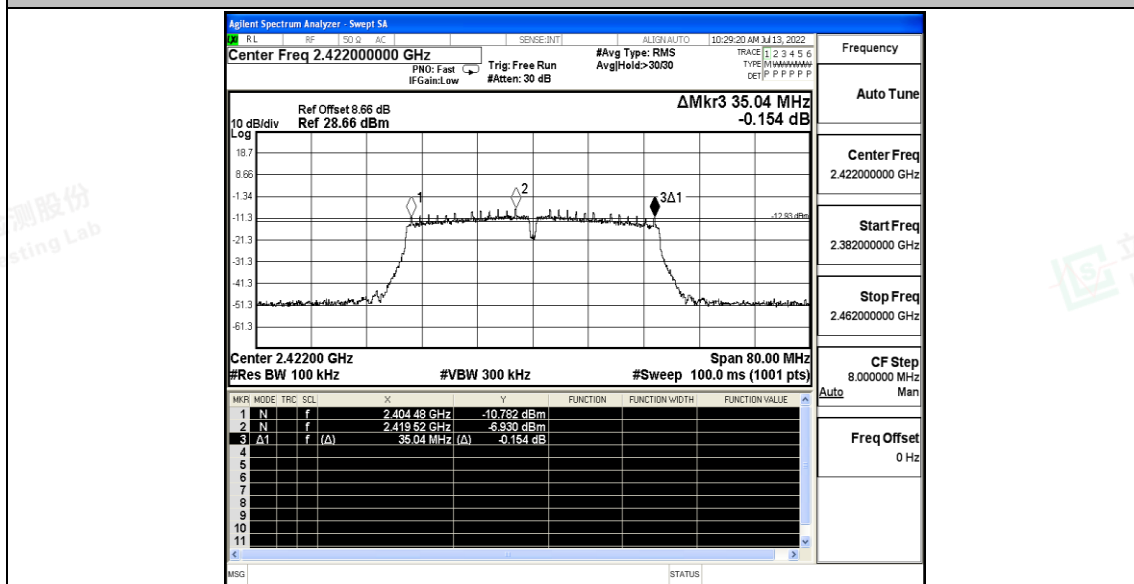


11N20SISO\_Ant\_2462





11N40SISO\_Ant\_2422



11N40SISO\_Ant\_2437

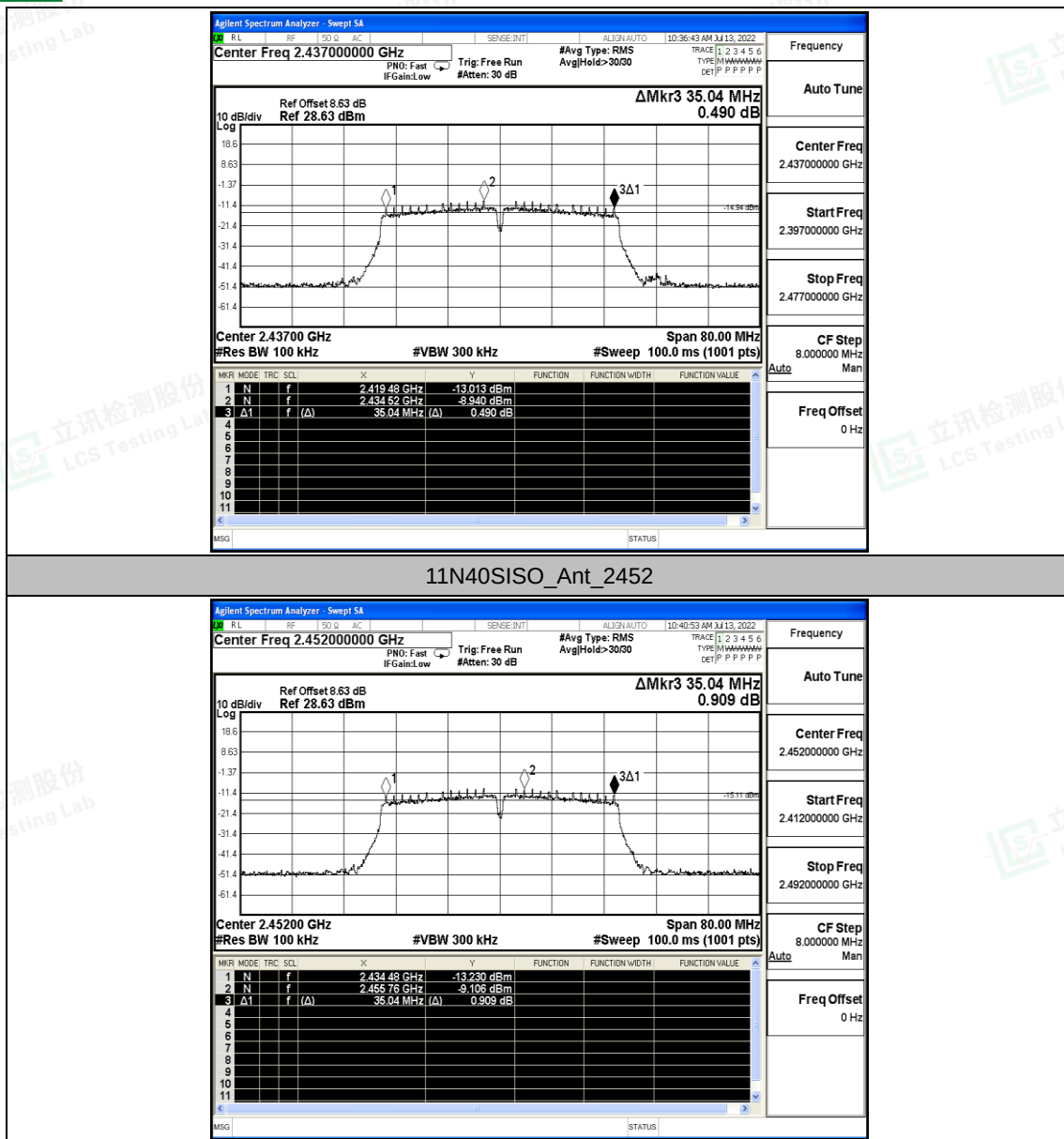


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## C.2 Maximum conducted output power

### Test Result

| TestMode  | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 11B       | Ant     | 2412    | 15.78       | ≤30.00     | PASS    |
|           |         | 2437    | 16.08       | ≤30.00     | PASS    |
|           |         | 2462    | 15.84       | ≤30.00     | PASS    |
| 11G       | Ant     | 2412    | 14.58       | ≤30.00     | PASS    |
|           |         | 2437    | 14.72       | ≤30.00     | PASS    |
|           |         | 2462    | 14.33       | ≤30.00     | PASS    |
| 11N20SISO | Ant     | 2412    | 13.85       | ≤30.00     | PASS    |
|           |         | 2437    | 13.94       | ≤30.00     | PASS    |
|           |         | 2462    | 13.18       | ≤30.00     | PASS    |
| 11N40SISO | Ant     | 2422    | 12.39       | ≤30.00     | PASS    |
|           |         | 2437    | 12.39       | ≤30.00     | PASS    |
|           |         | 2452    | 12.47       | ≤30.00     | PASS    |





### C.3 Maximum power spectral density

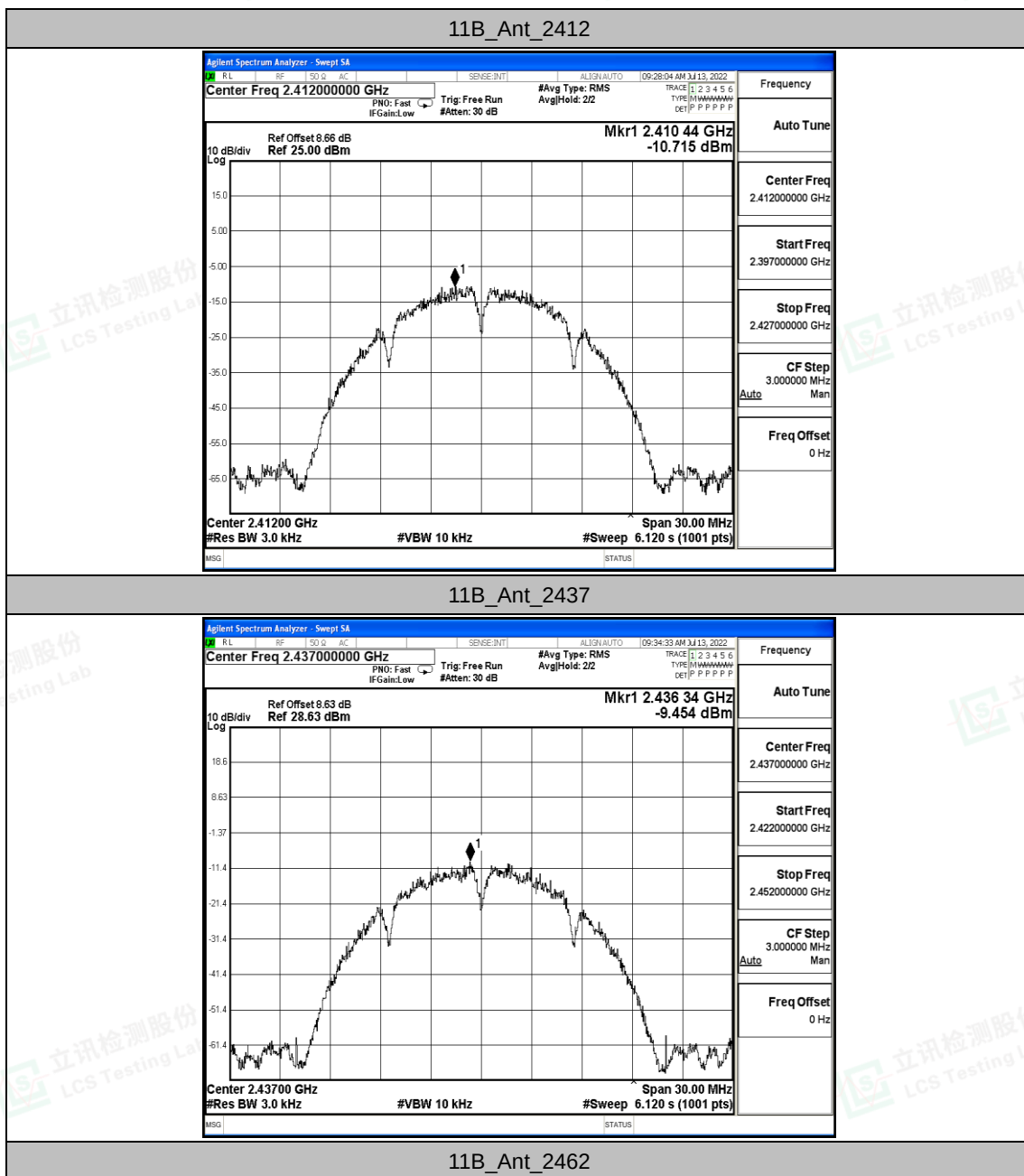
#### Test Result

| TestMode  | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|------------------|-----------------|---------|
| 11B       | Ant     | 2412    | -10.72           | ≤8.00           | PASS    |
|           |         | 2437    | -9.45            | ≤8.00           | PASS    |
|           |         | 2462    | -10.11           | ≤8.00           | PASS    |
| 11G       | Ant     | 2412    | -18.89           | ≤8.00           | PASS    |
|           |         | 2437    | -16.81           | ≤8.00           | PASS    |
|           |         | 2462    | -18.48           | ≤8.00           | PASS    |
| 11N20SISO | Ant     | 2412    | -19.34           | ≤8.00           | PASS    |
|           |         | 2437    | -18.92           | ≤8.00           | PASS    |
|           |         | 2462    | -20.41           | ≤8.00           | PASS    |
| 11N40SISO | Ant     | 2422    | -21.71           | ≤8.00           | PASS    |
|           |         | 2437    | -23.31           | ≤8.00           | PASS    |
|           |         | 2452    | -23.47           | ≤8.00           | PASS    |





## Test Graphs

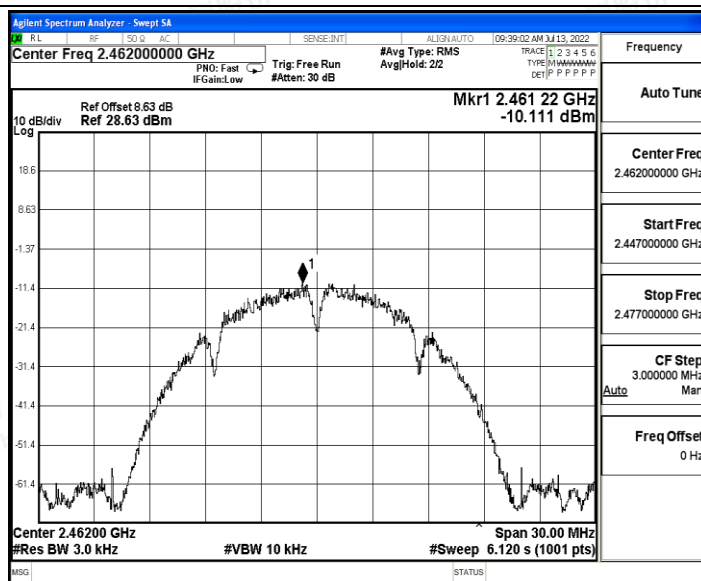


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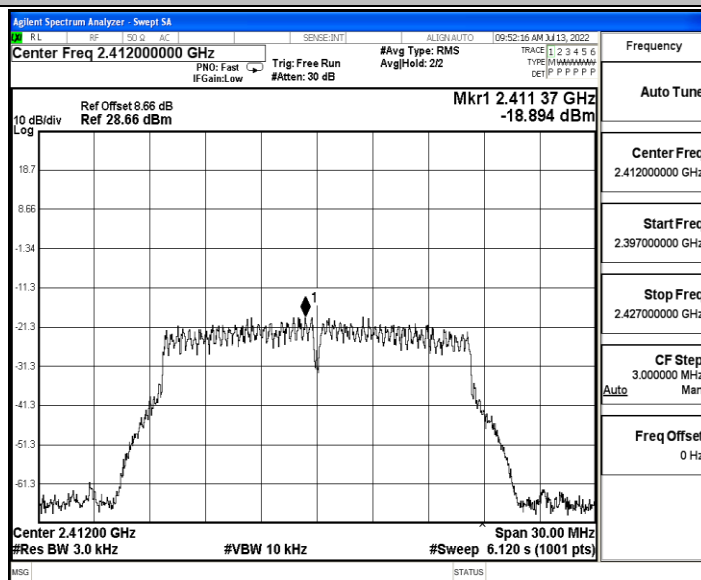
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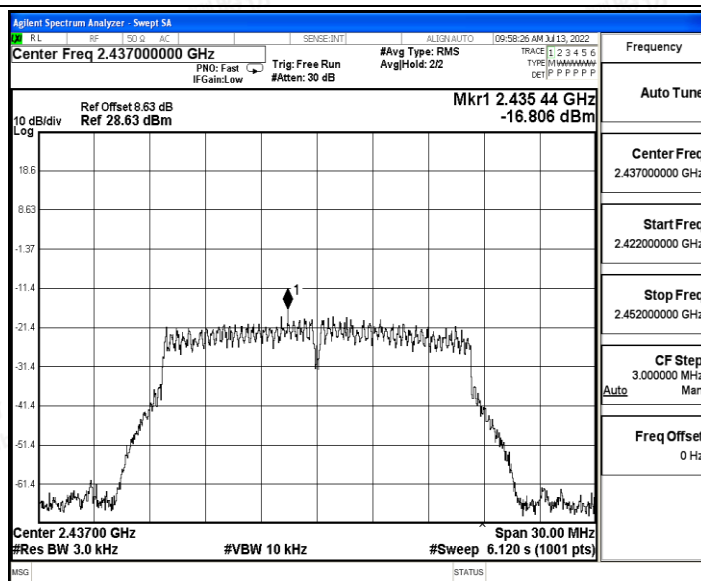


11G\_Ant\_2412

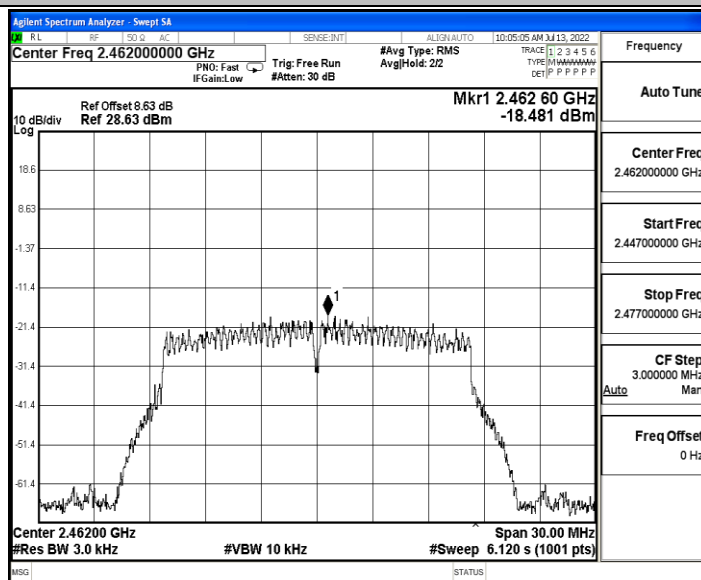


11G\_Ant\_2437



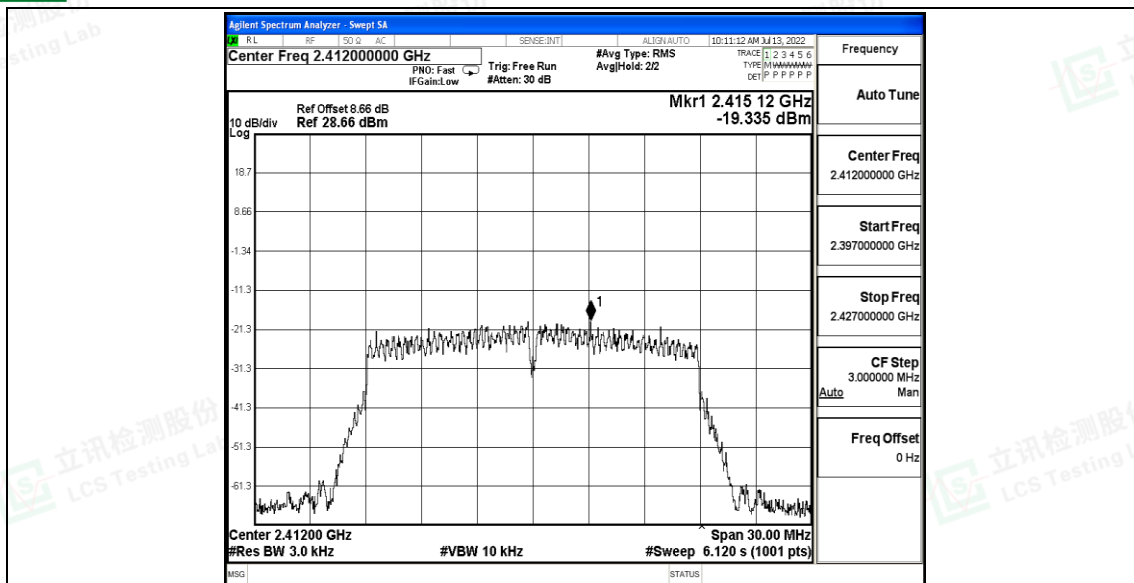


11G\_Ant\_2462

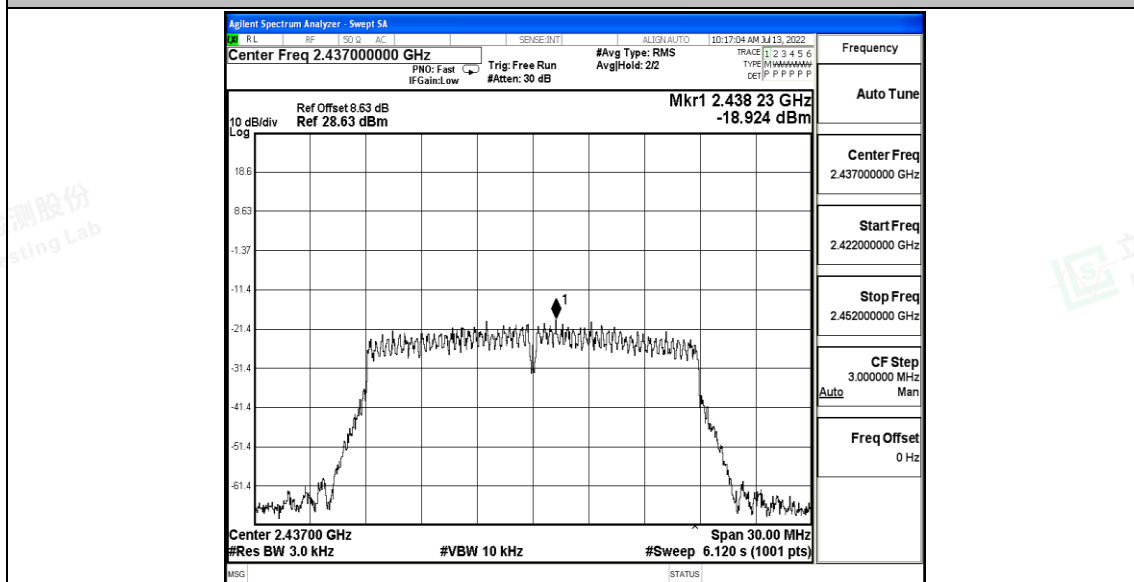


11N20SISO\_Ant\_2412



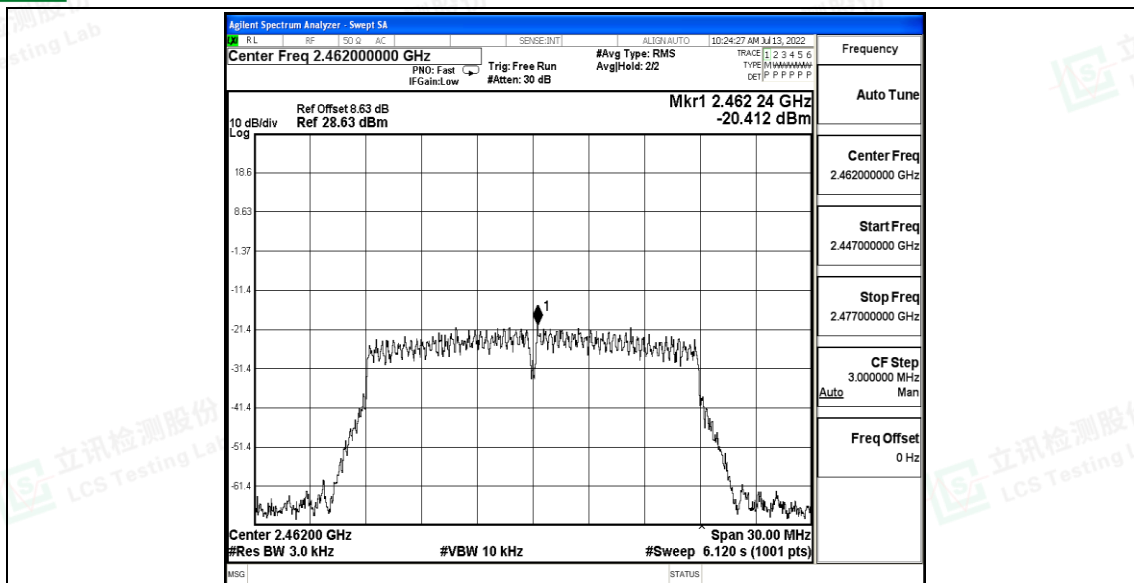


11N20SISO\_Ant\_2437

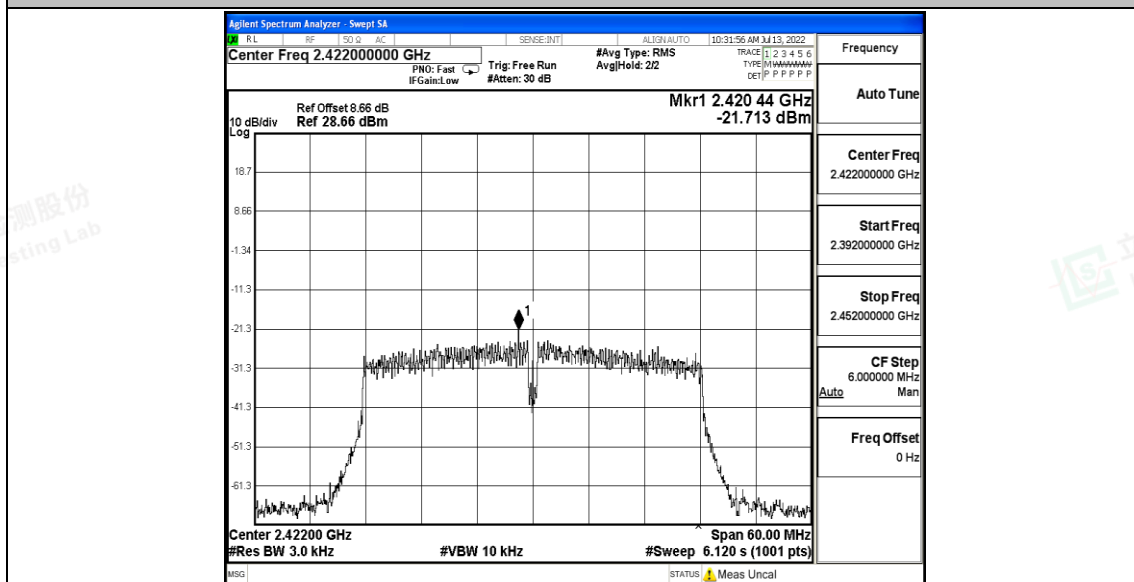


11N20SISO\_Ant\_2462



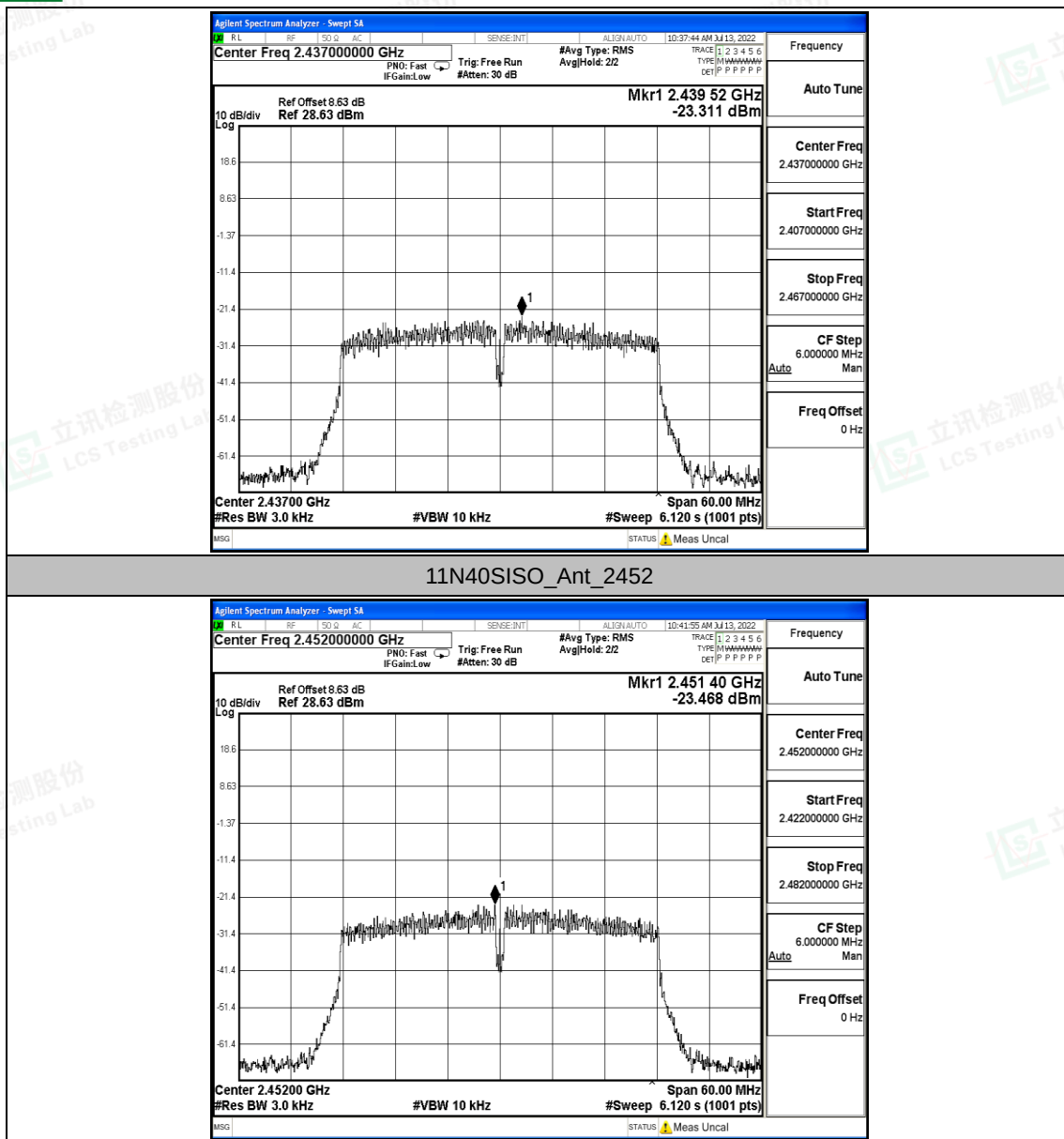


11N40SISO\_Ant\_2422



11N40SISO\_Ant\_2437







## C.4 Band edge measurements

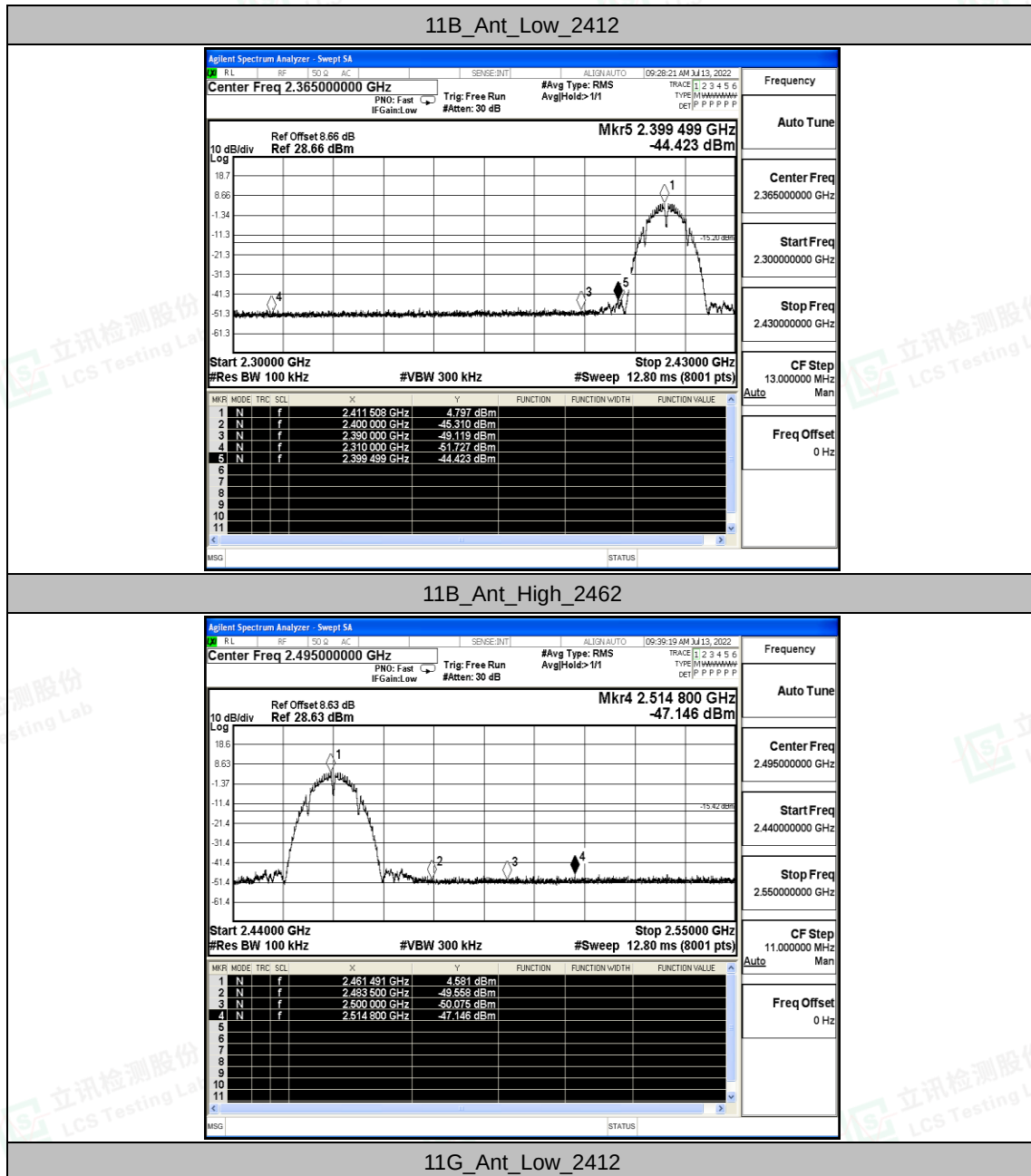
### Test Result

| TestMode  | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|--------|---------|---------------|-------------|---------------|---------|
| 11B       | Ant     | Low    | 2412    | 4.80          | -44.42      | $\leq -15.2$  | PASS    |
|           |         | High   | 2462    | 4.58          | -47.15      | $\leq -15.42$ | PASS    |
| 11G       | Ant     | Low    | 2412    | -3.62         | -45.27      | $\leq -23.62$ | PASS    |
|           |         | High   | 2462    | -3.90         | -47.92      | $\leq -23.9$  | PASS    |
| 11N20SISO | Ant     | Low    | 2412    | -4.16         | -45.41      | $\leq -24.16$ | PASS    |
|           |         | High   | 2462    | -4.90         | -47.51      | $\leq -24.9$  | PASS    |
| 11N40SISO | Ant     | Low    | 2422    | -8.79         | -47.34      | $\leq -28.79$ | PASS    |
|           |         | High   | 2452    | -8.84         | -47.77      | $\leq -28.84$ | PASS    |





## Test Graphs

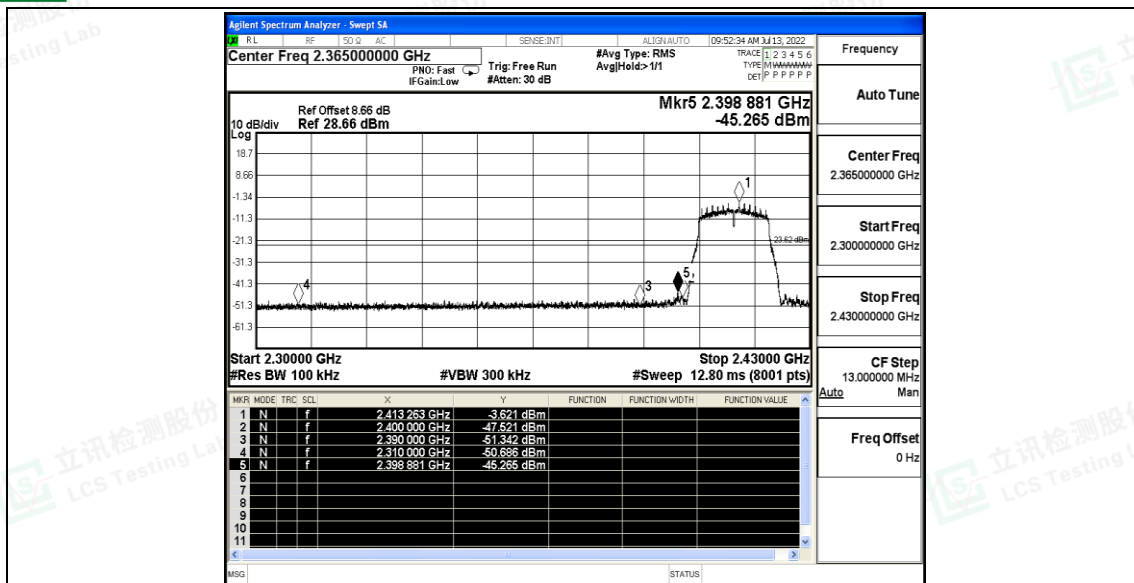


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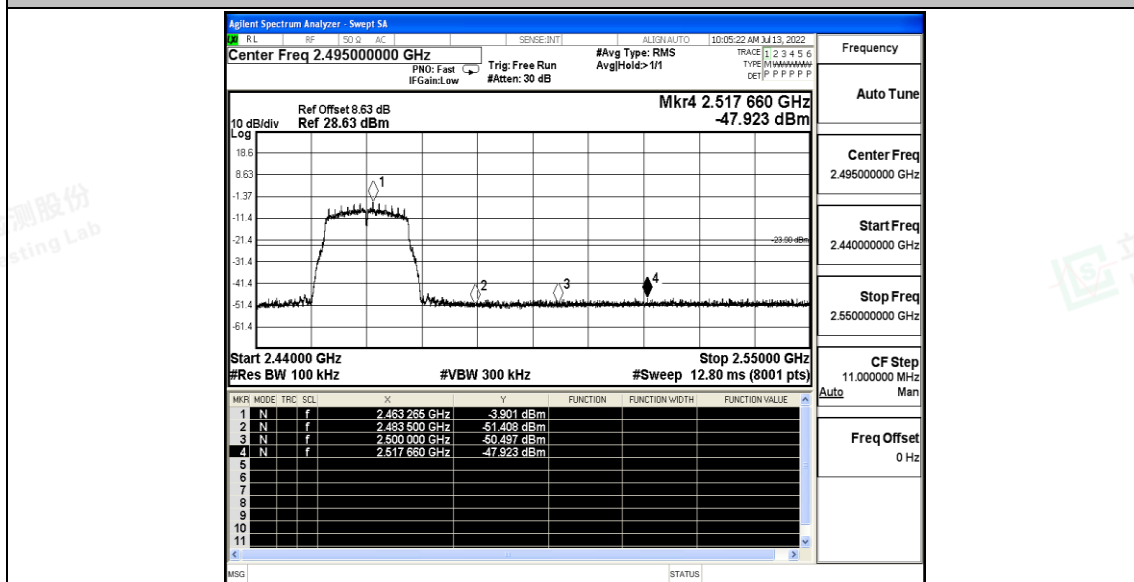
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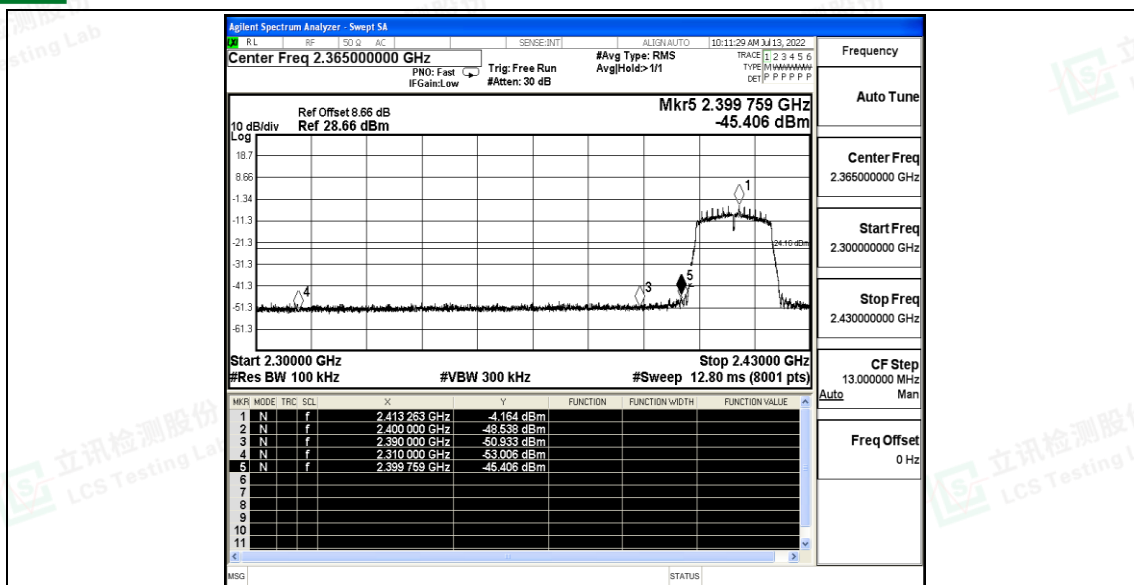


11G\_Ant\_High\_2462

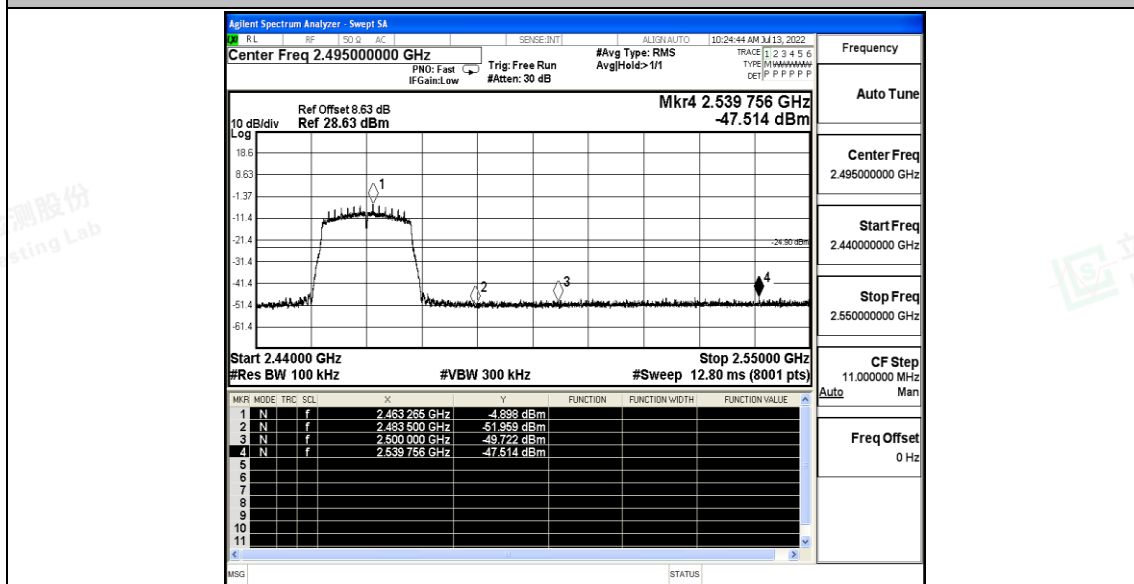


11N20SISO\_Ant\_Low\_2412



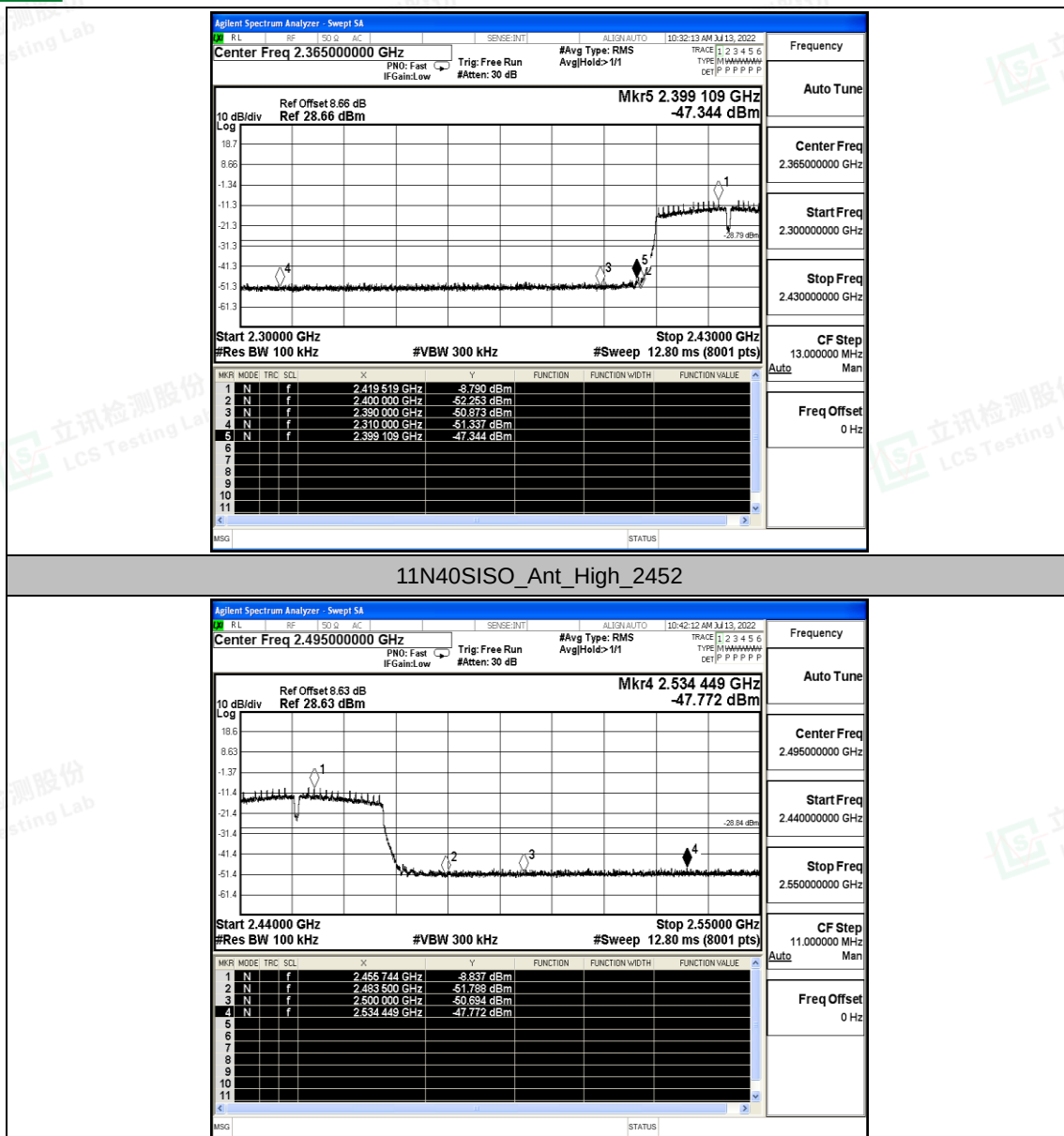


11N20SISO\_Ant\_High\_2462



11N40SISO\_Ant\_Low\_2422







## C.5 Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Channel | FreqRange<br>[Mhz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|-----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| 11B       | Ant     | 2412    | Reference          | 4.53              | 4.53            | ---            | PASS    |
|           |         |         | 30~1000            | 4.53              | -56.02          | ≤-15.47        | PASS    |
|           |         |         | 1000~26500         | 4.53              | -45.52          | ≤-15.47        | PASS    |
|           |         | 2437    | Reference          | 5.11              | 5.11            | ---            | PASS    |
|           |         |         | 30~1000            | 5.11              | -56.16          | ≤-14.89        | PASS    |
|           |         |         | 1000~26500         | 5.11              | -46.23          | ≤-14.89        | PASS    |
|           |         | 2462    | Reference          | 4.69              | 4.69            | ---            | PASS    |
|           |         |         | 30~1000            | 4.69              | -56.02          | ≤-15.31        | PASS    |
|           |         |         | 1000~26500         | 4.69              | -46.09          | ≤-15.31        | PASS    |
| 11G       | Ant     | 2412    | Reference          | -3.88             | -3.88           | ---            | PASS    |
|           |         |         | 30~1000            | -3.88             | -56.26          | ≤-23.88        | PASS    |
|           |         |         | 1000~26500         | -3.88             | -45.88          | ≤-23.88        | PASS    |
|           |         | 2437    | Reference          | -3.40             | -3.40           | ---            | PASS    |
|           |         |         | 30~1000            | -3.40             | -42.28          | ≤-23.4         | PASS    |
|           |         |         | 1000~26500         | -3.40             | -46.48          | ≤-23.4         | PASS    |
|           |         | 2462    | Reference          | -4.47             | -4.47           | ---            | PASS    |
|           |         |         | 30~1000            | -4.47             | -55.99          | ≤-24.47        | PASS    |
|           |         |         | 1000~26500         | -4.47             | -46.06          | ≤-24.47        | PASS    |
| 11N20SISO | Ant     | 2412    | Reference          | -4.17             | -4.17           | ---            | PASS    |
|           |         |         | 30~1000            | -4.17             | -50.25          | ≤-24.17        | PASS    |
|           |         |         | 1000~26500         | -4.17             | -46.05          | ≤-24.17        | PASS    |
|           |         | 2437    | Reference          | -4.24             | -4.24           | ---            | PASS    |
|           |         |         | 30~1000            | -4.24             | -51.5           | ≤-24.24        | PASS    |
|           |         |         | 1000~26500         | -4.24             | -44.77          | ≤-24.24        | PASS    |
|           |         | 2462    | Reference          | -4.81             | -4.81           | ---            | PASS    |
|           |         |         | 30~1000            | -4.81             | -51.3           | ≤-24.81        | PASS    |
|           |         |         | 1000~26500         | -4.81             | -46.07          | ≤-24.81        | PASS    |
| 11N40SISO | Ant     | 2422    | Reference          | -8.95             | -8.95           | ---            | PASS    |
|           |         |         | 30~1000            | -8.95             | -52.32          | ≤-28.95        | PASS    |
|           |         |         | 1000~26500         | -8.95             | -46.24          | ≤-28.95        | PASS    |
|           |         | 2437    | Reference          | -8.93             | -8.93           | ---            | PASS    |
|           |         |         | 30~1000            | -8.93             | -52.12          | ≤-28.93        | PASS    |
|           |         |         | 1000~26500         | -8.93             | -46.26          | ≤-28.93        | PASS    |
|           |         | 2452    | Reference          | -8.70             | -8.70           | ---            | PASS    |



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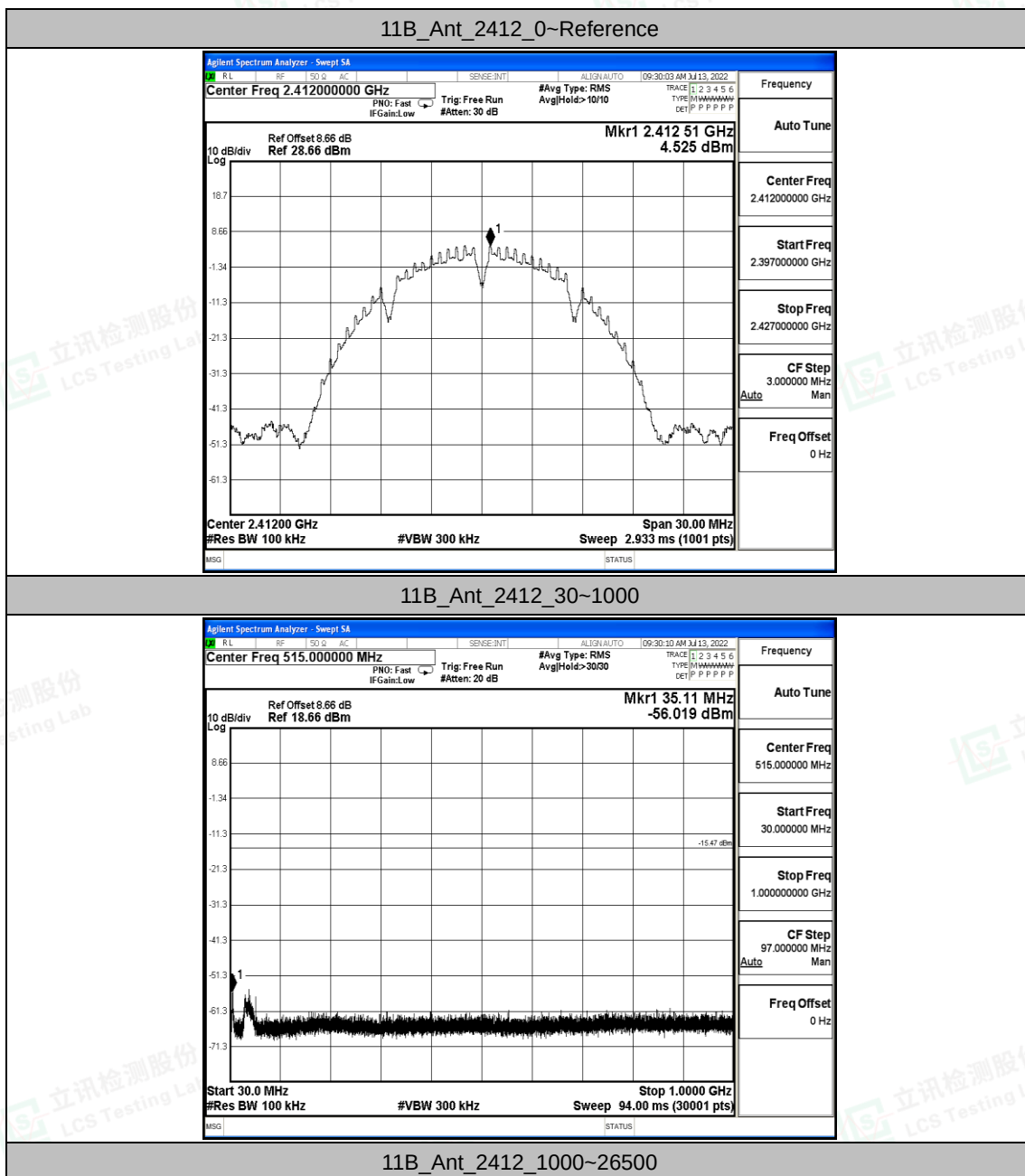
|  |  |  |            |       |        |        |      |
|--|--|--|------------|-------|--------|--------|------|
|  |  |  | 30~1000    | -8.70 | -52.64 | ≤-28.7 | PASS |
|  |  |  | 1000~26500 | -8.70 | -46.19 | ≤-28.7 | PASS |

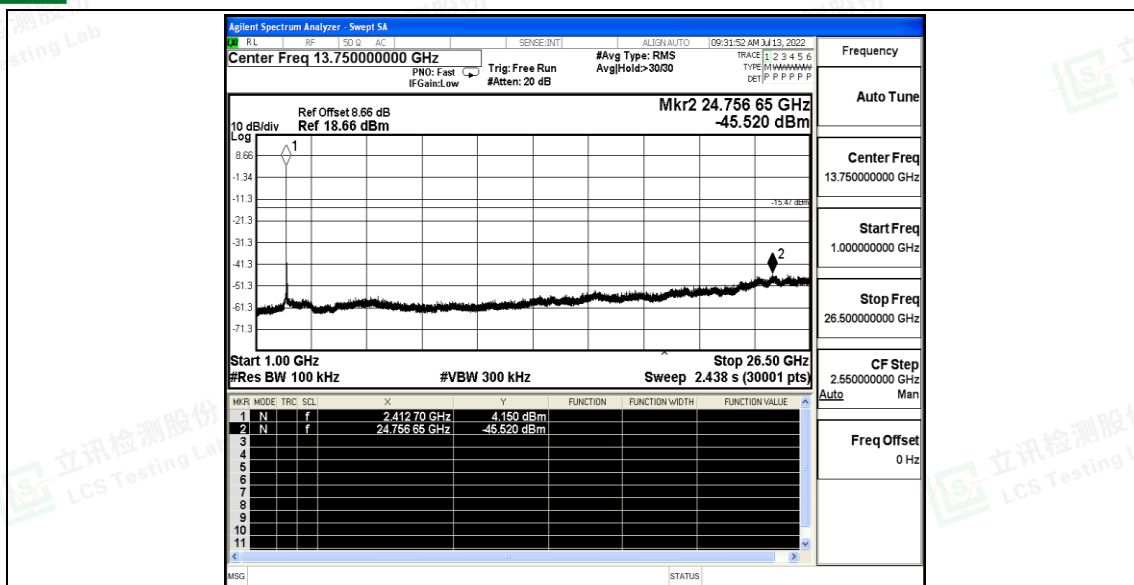


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Scan code to check authenticity

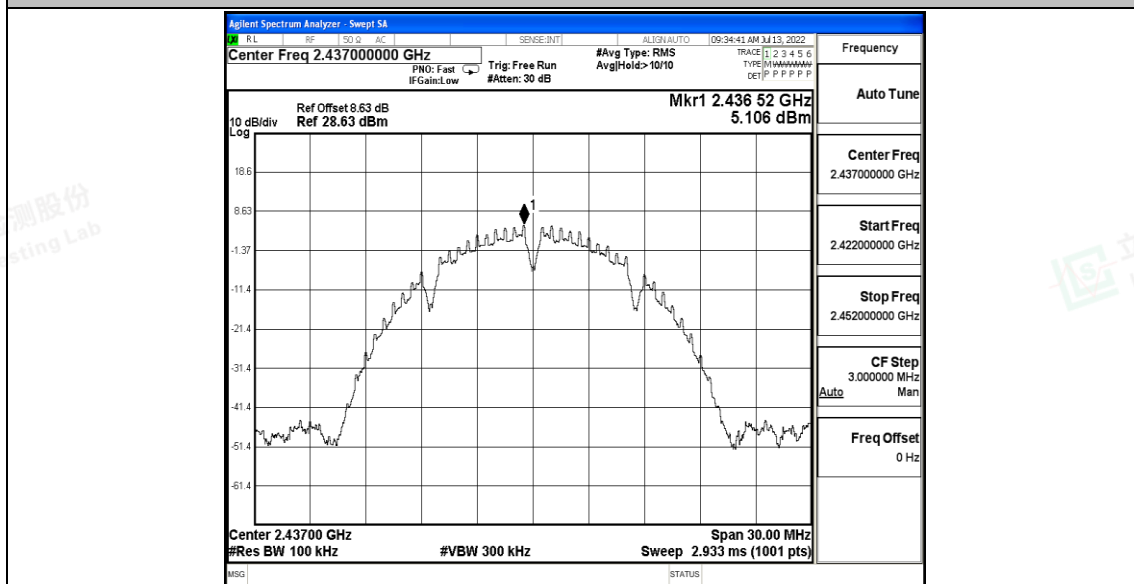


## Test Graphs



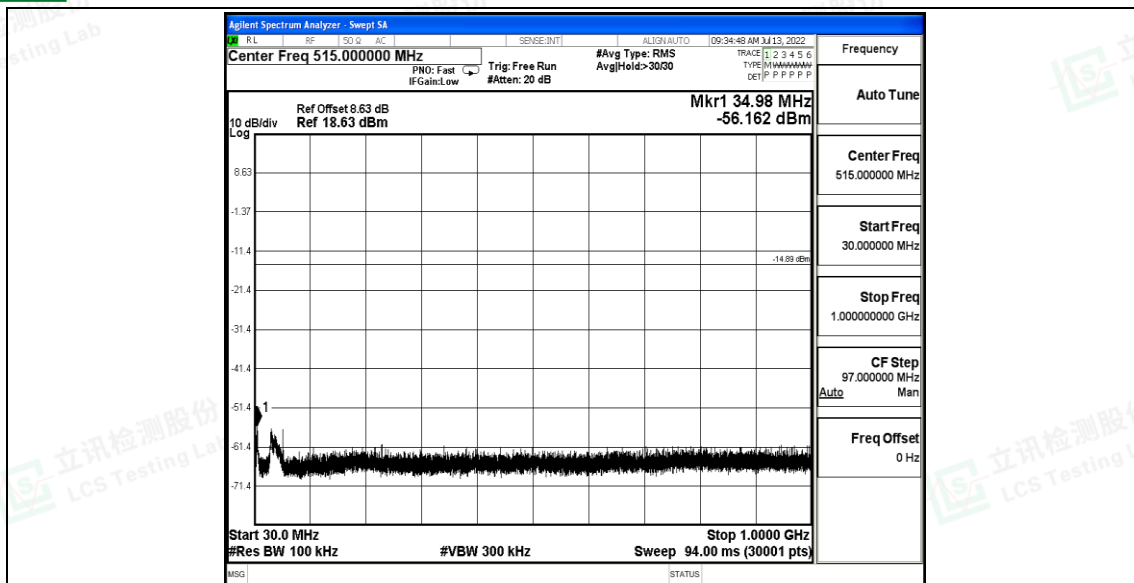


11B\_Ant\_2437\_0~Reference

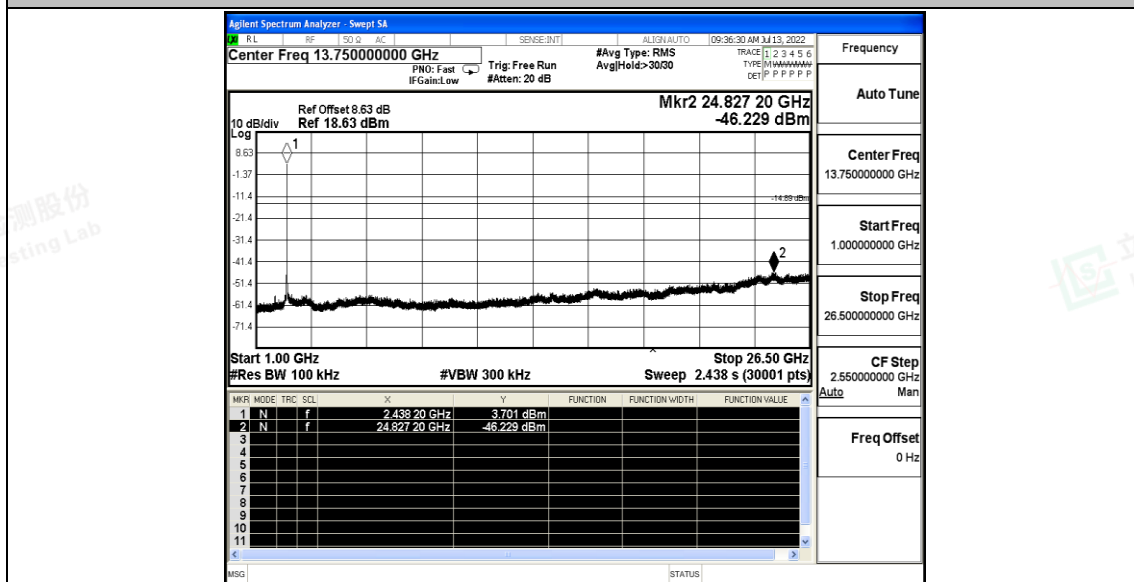


11B\_Ant\_2437\_30~1000



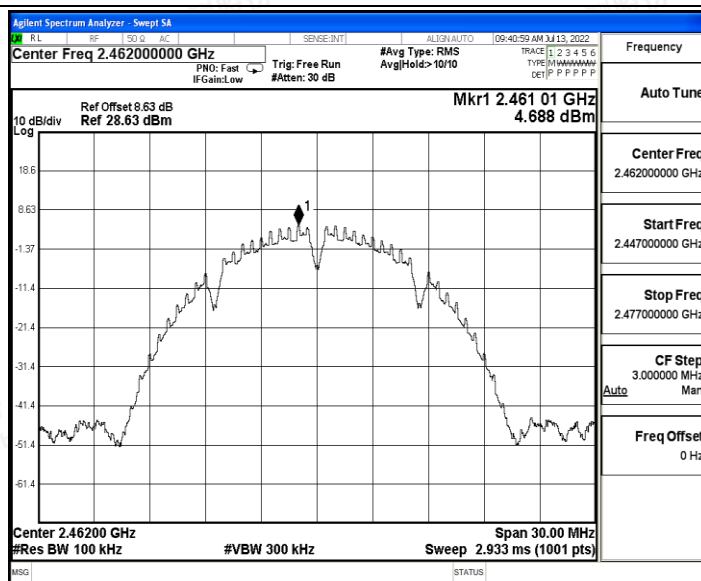


11B\_Ant\_2437\_1000~26500

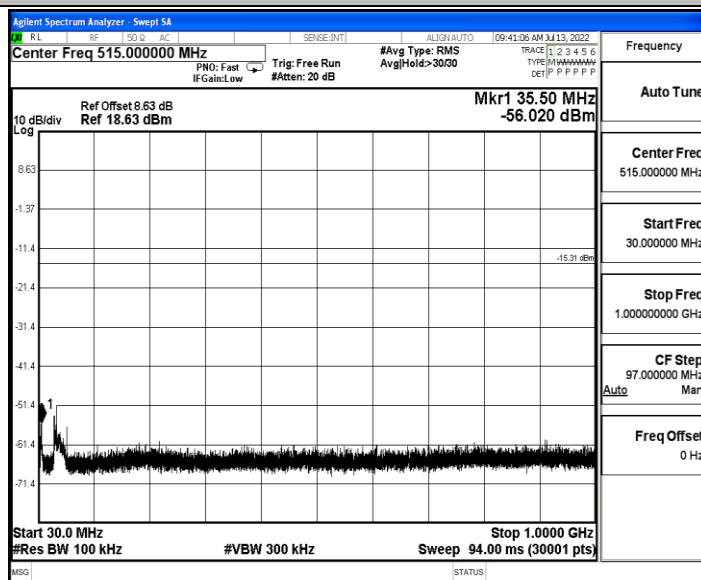


11B\_Ant\_2462\_0~Reference



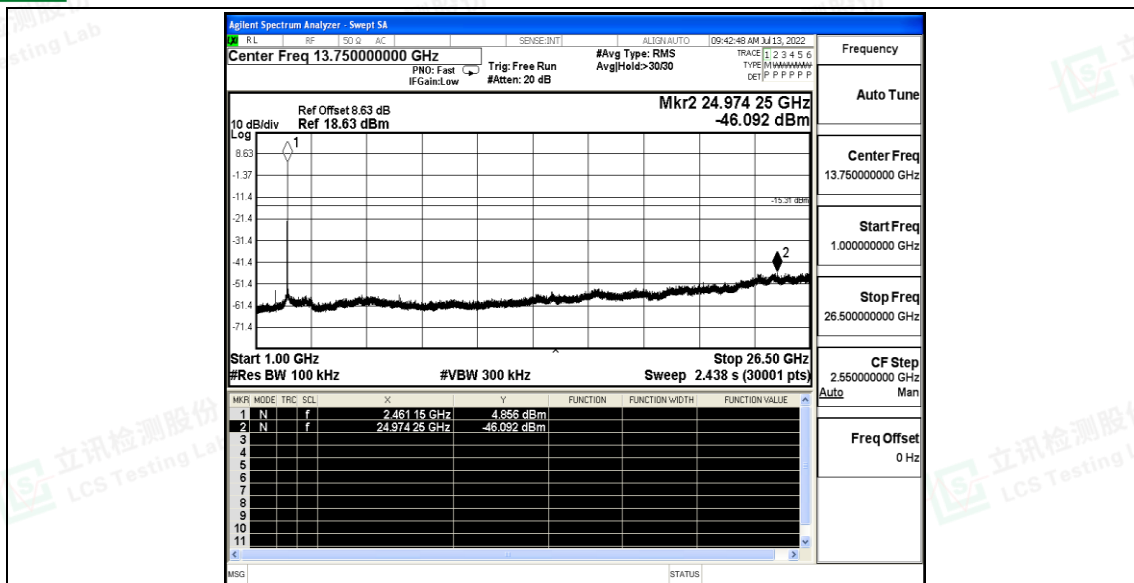


11B\_Ant\_2462\_30~1000

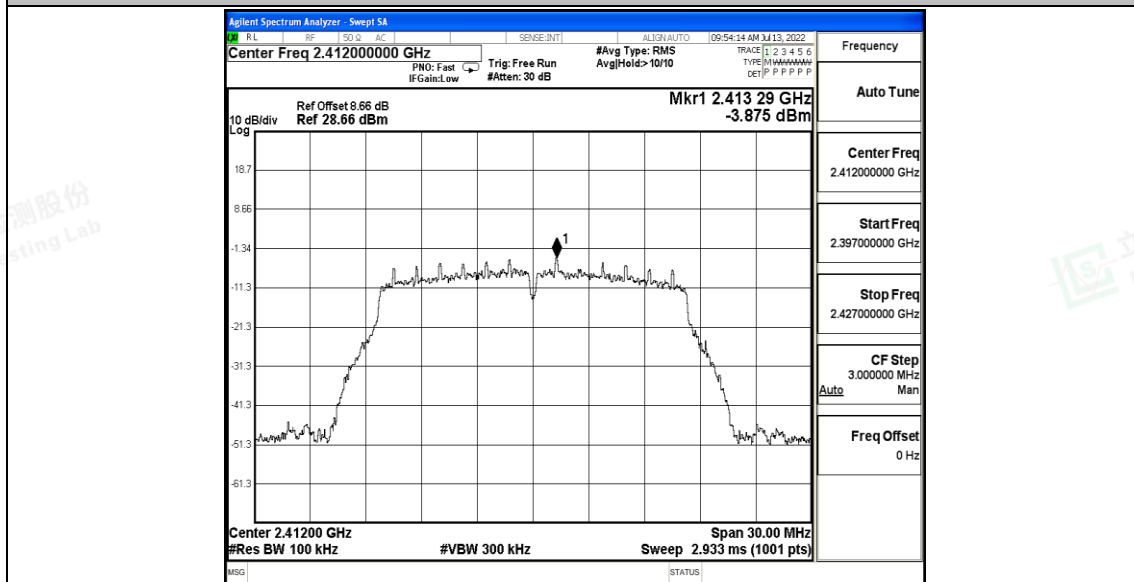


11B\_Ant\_2462\_1000~26500



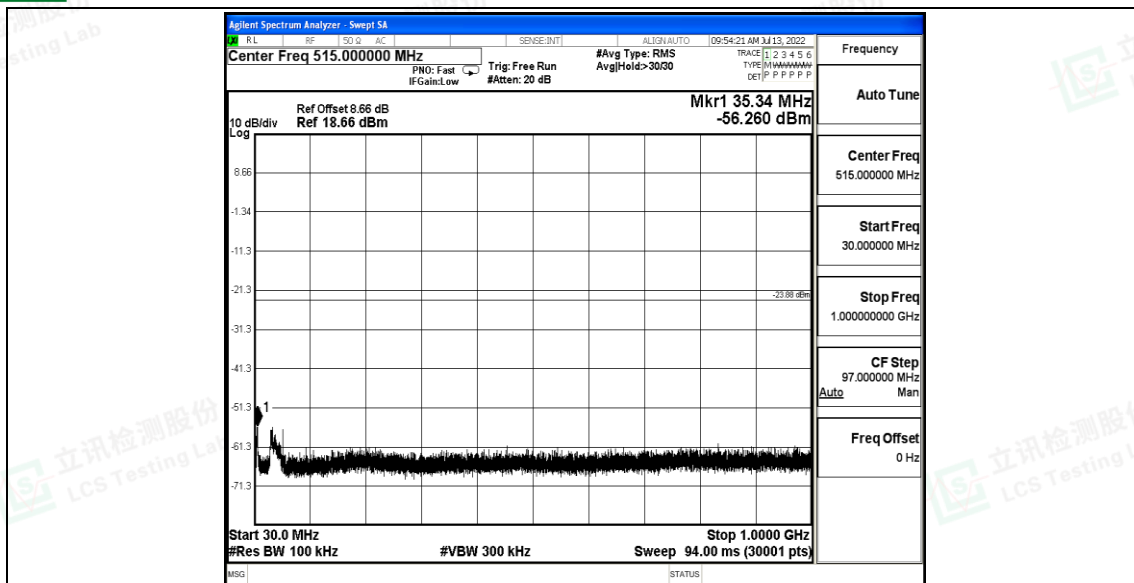


11G\_Ant\_2412\_0~Reference

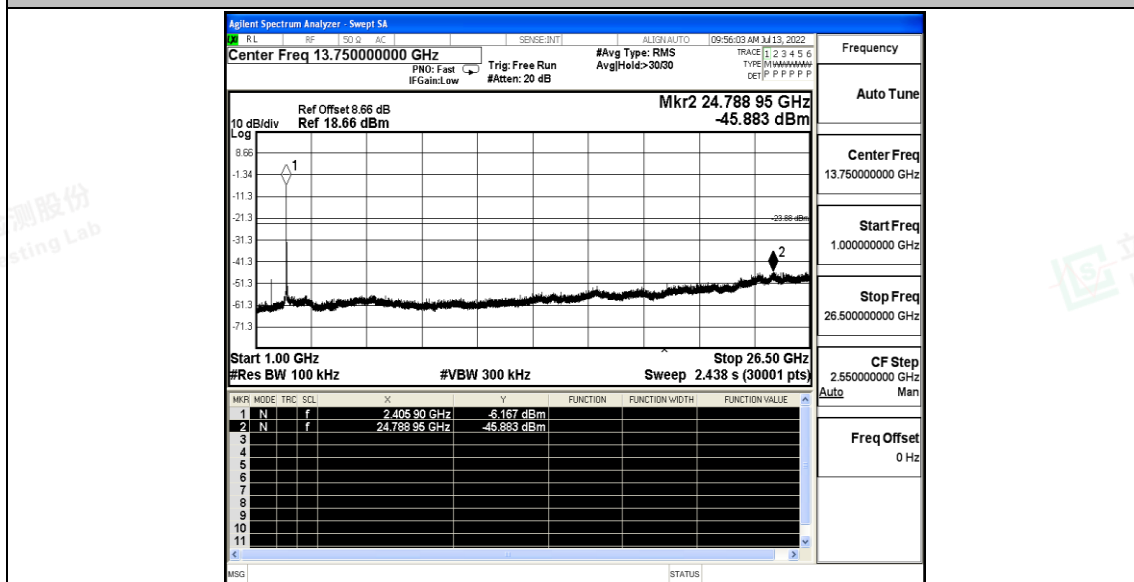


11G\_Ant\_2412\_30~1000



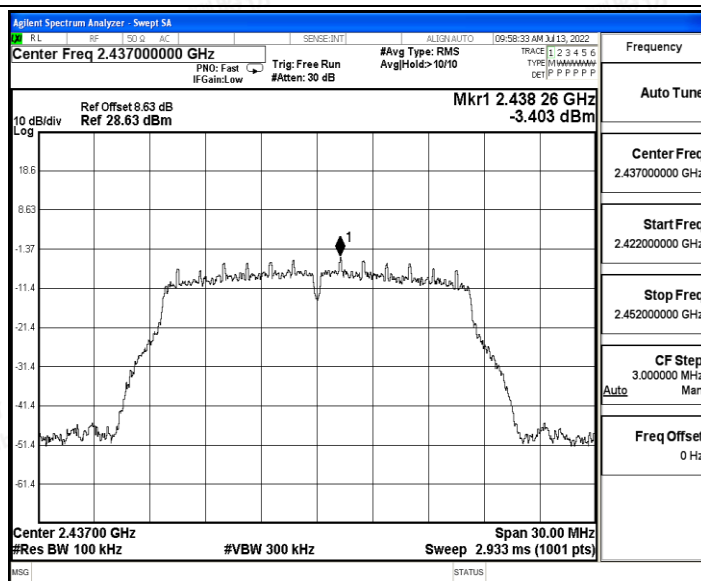


11G\_Ant\_2412\_1000~26500

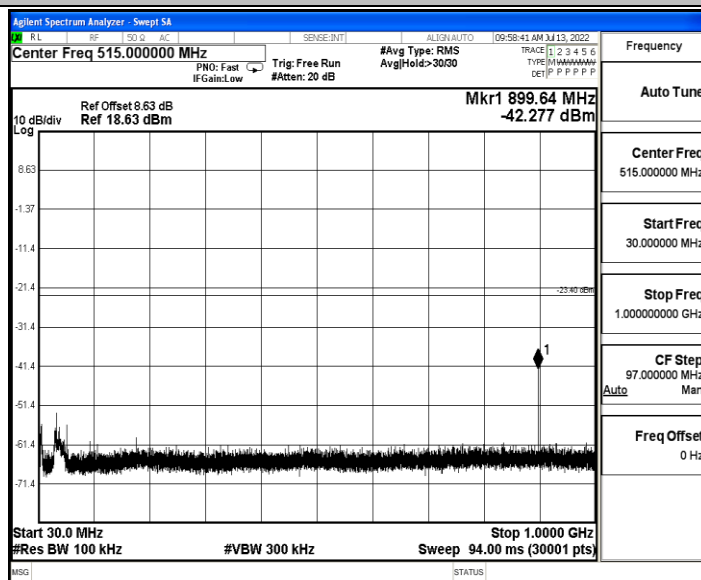


11G\_Ant\_2437\_0~Reference





11G\_Ant\_2437\_30~1000



11G\_Ant\_2437\_1000~26500

