



## Appendix A

### RF Test Data for BT (Conducted Measurement)

**Product Name:** TWS Earphone

**Test Model:** ePRO-AE03

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.5 ° C  |
| Relative Humidity: | 52.2%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Bill Zhu  |
| Supervised by:     | Li Huan   |



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## A.1 20dB Emission Bandwidth

### Test Result

| TestMode | Antenna | Channel | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|---------------|----------|----------|------------|---------|
| DH5      | Ant     | 2402    | 0.969         | 2401.529 | 2402.498 | ---        | ---     |
|          |         | 2441    | 1.047         | 2440.460 | 2441.507 | ---        | ---     |
|          |         | 2480    | 1.044         | 2479.460 | 2480.504 | ---        | ---     |
| 2DH5     | Ant     | 2402    | 1.320         | 2401.337 | 2402.657 | ---        | ---     |
|          |         | 2441    | 1.290         | 2440.361 | 2441.651 | ---        | ---     |
|          |         | 2480    | 1.290         | 2479.361 | 2480.651 | ---        | ---     |
| 3DH5     | Ant     | 2402    | 1.296         | 2401.352 | 2402.648 | ---        | ---     |
|          |         | 2441    | 1.293         | 2440.352 | 2441.645 | ---        | ---     |
|          |         | 2480    | 1.299         | 2479.349 | 2480.648 | ---        | ---     |



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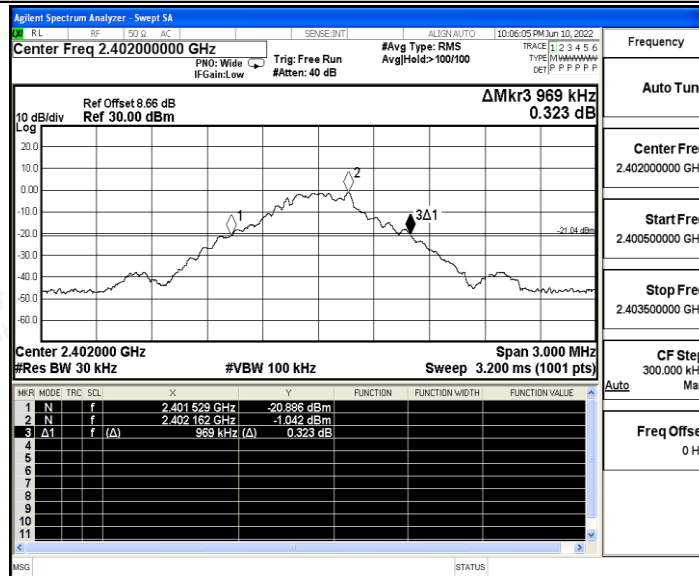
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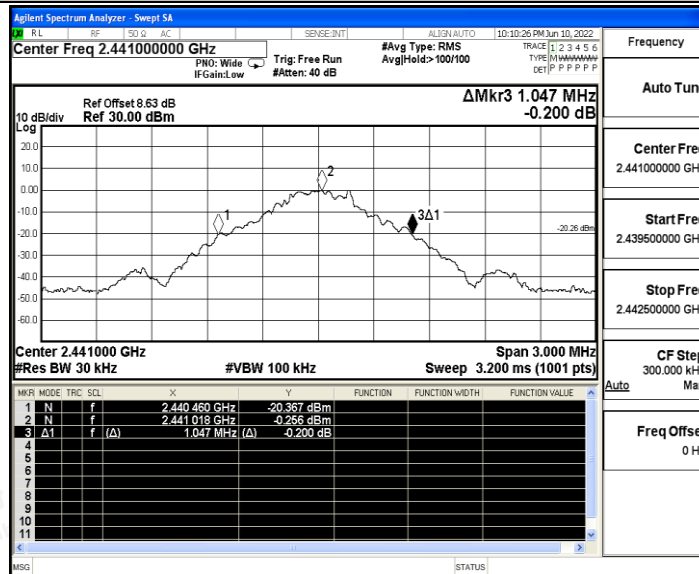


## Test Graphs

DH5\_Ant\_2402



DH5\_Ant\_2441



DH5\_Ant\_2480

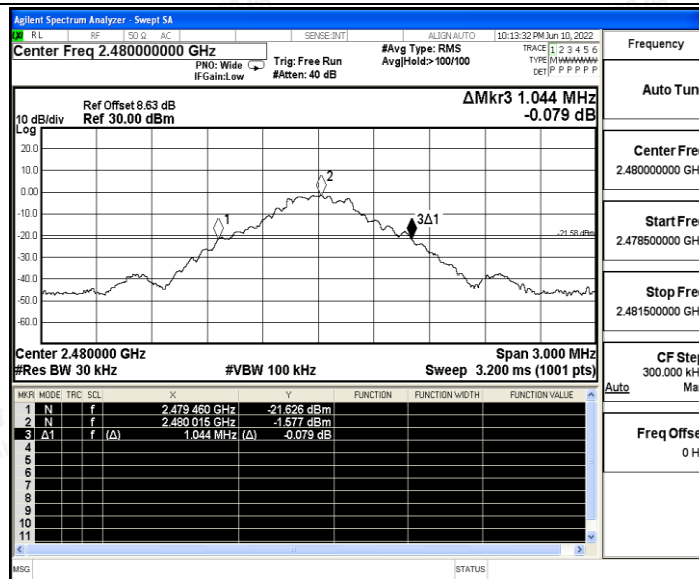


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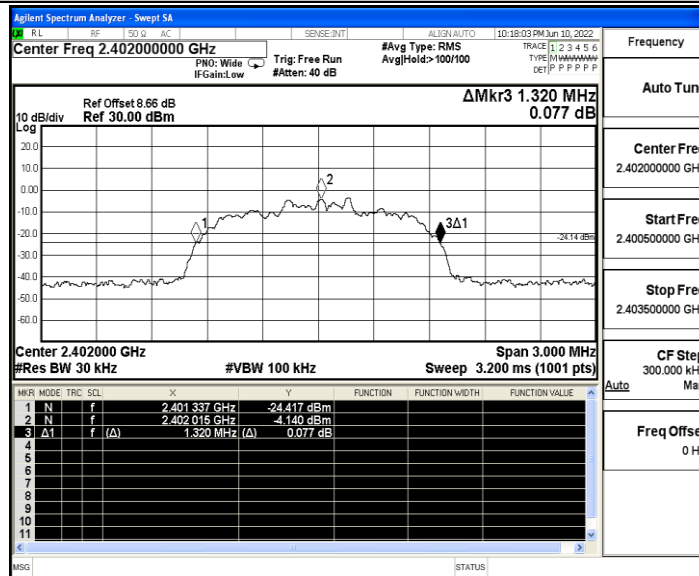
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2DH5\_Ant\_2402



2DH5\_Ant\_2441

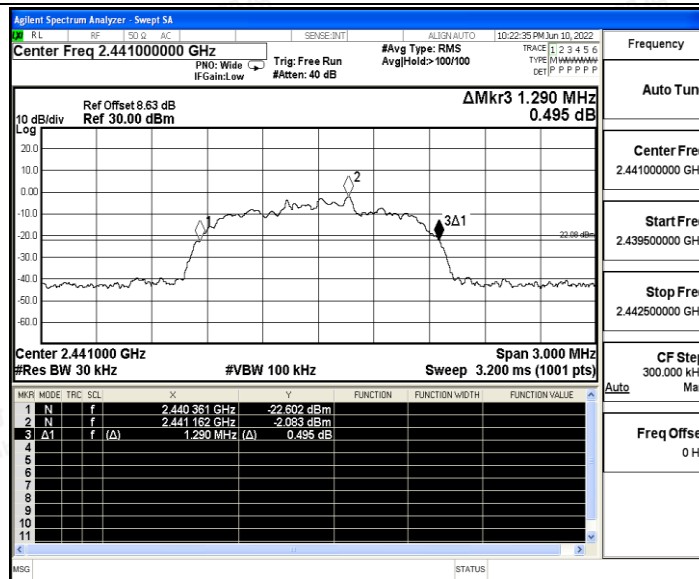


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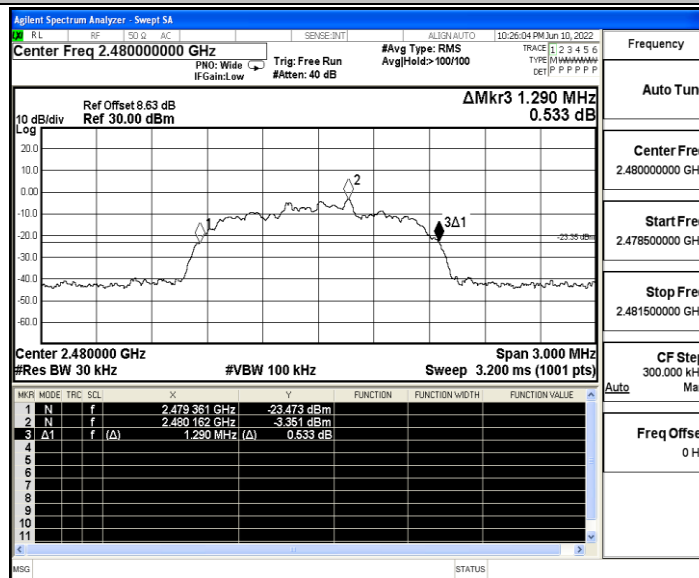
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2DH5\_Ant\_2480



3DH5\_Ant\_2402

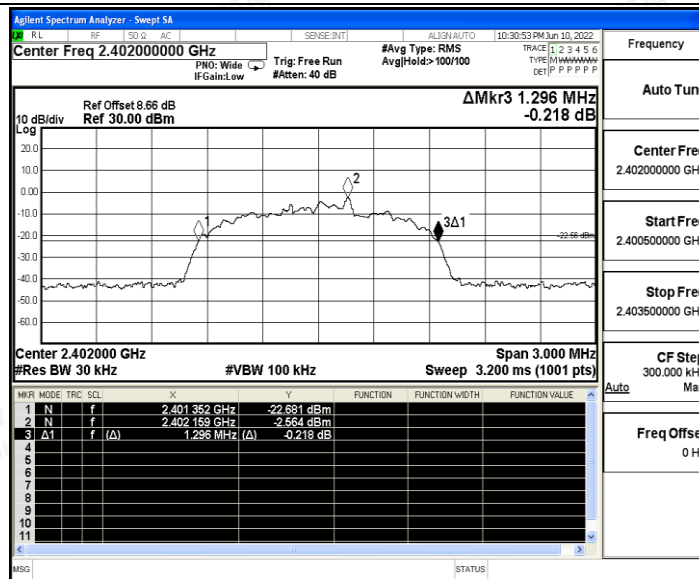


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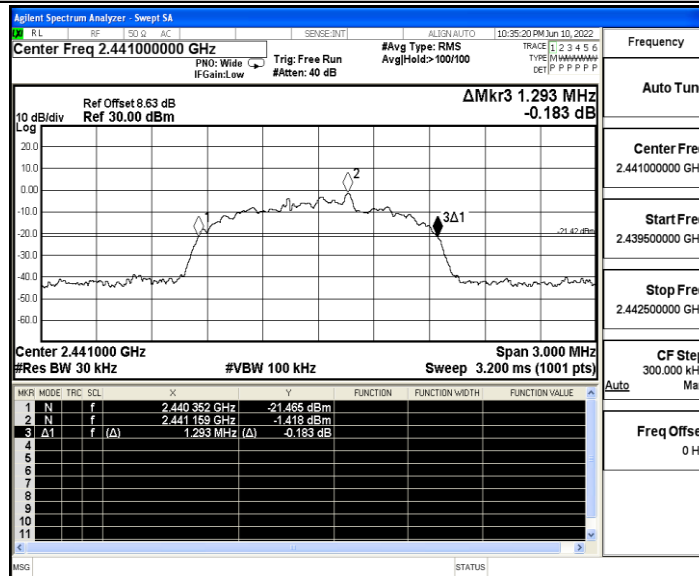
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3DH5\_Ant\_2441



3DH5\_Ant\_2480

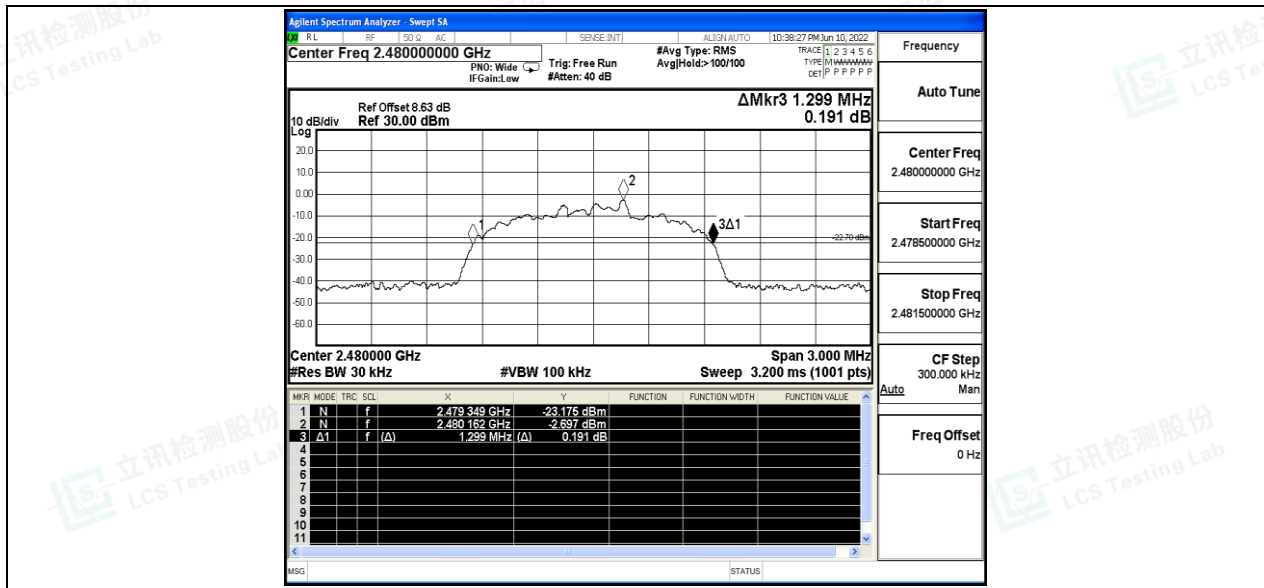


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## A.2 Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant     | 2402    | 1.55        | ≤20.97     | PASS    |
|          |         | 2441    | <b>2.71</b> | ≤20.97     | PASS    |
|          |         | 2480    | 1.44        | ≤20.97     | PASS    |
| 2DH5     | Ant     | 2402    | 0.66        | ≤20.97     | PASS    |
|          |         | 2441    | 1.84        | ≤20.97     | PASS    |
|          |         | 2480    | 0.49        | ≤20.97     | PASS    |
| 3DH5     | Ant     | 2402    | 0.85        | ≤20.97     | PASS    |
|          |         | 2441    | 2.01        | ≤20.97     | PASS    |
|          |         | 2480    | 0.64        | ≤20.97     | PASS    |



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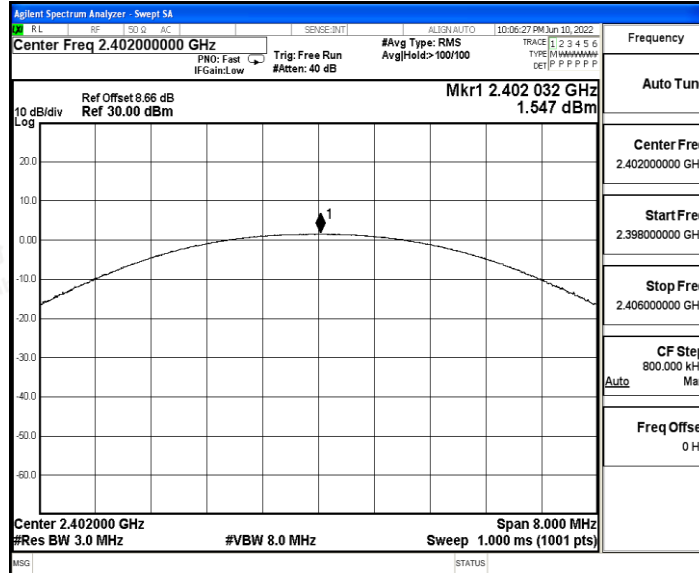
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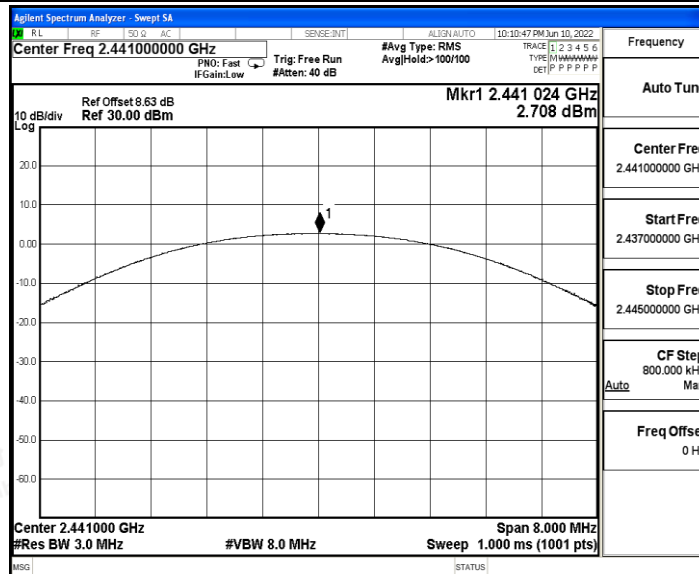


## Test Graphs

DH5\_Ant\_2402



DH5\_Ant\_2441



DH5\_Ant\_2480

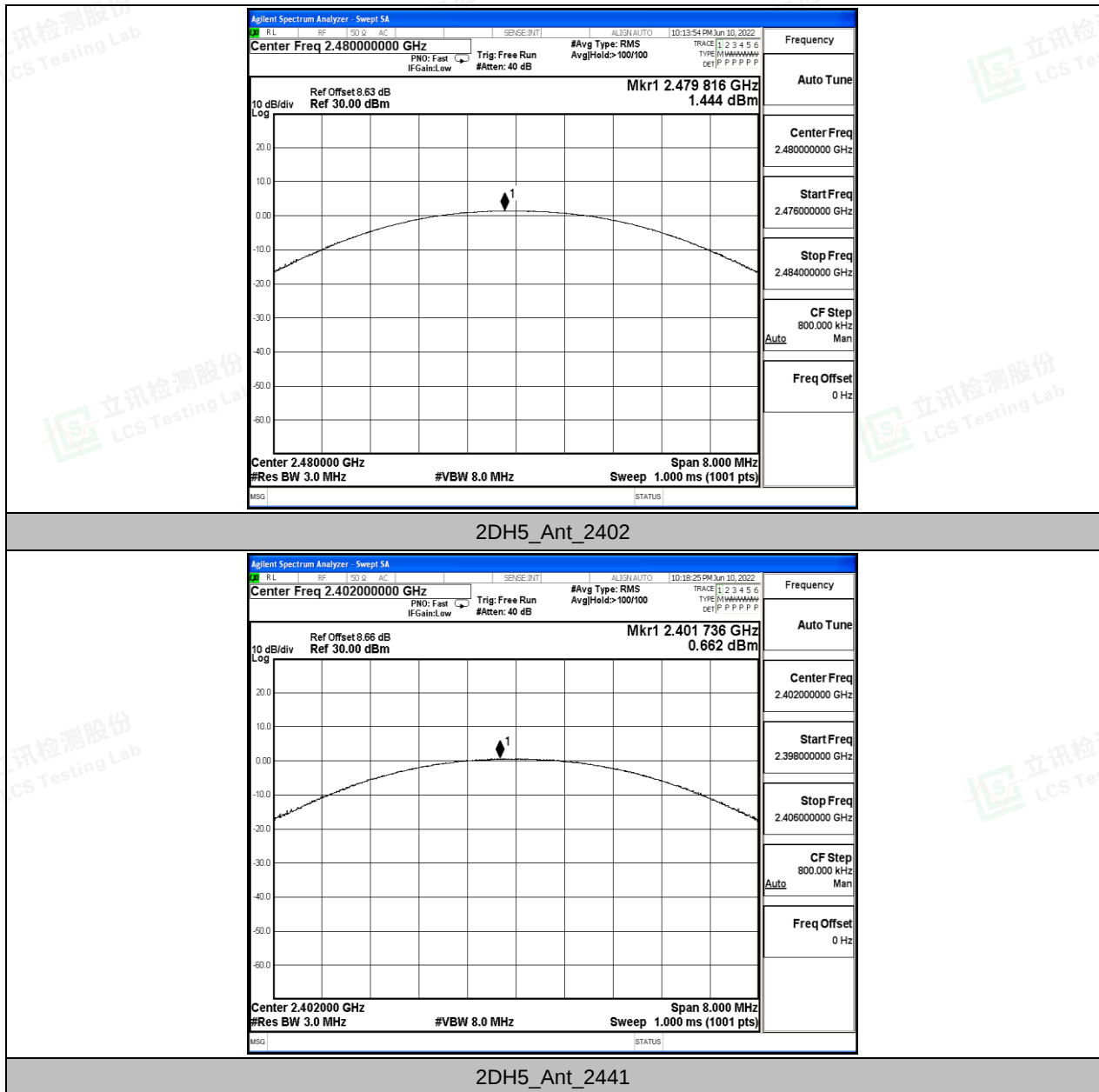


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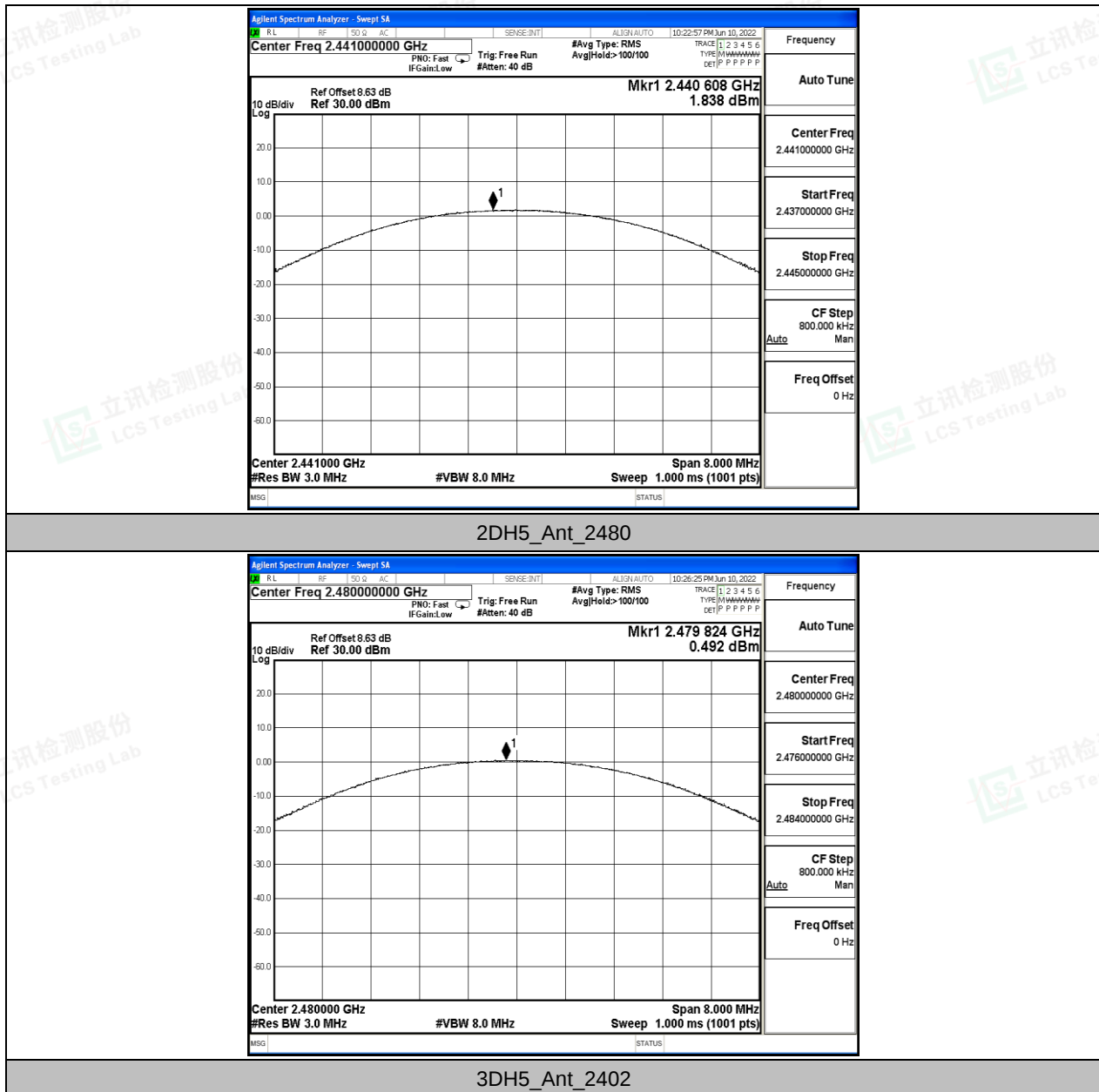


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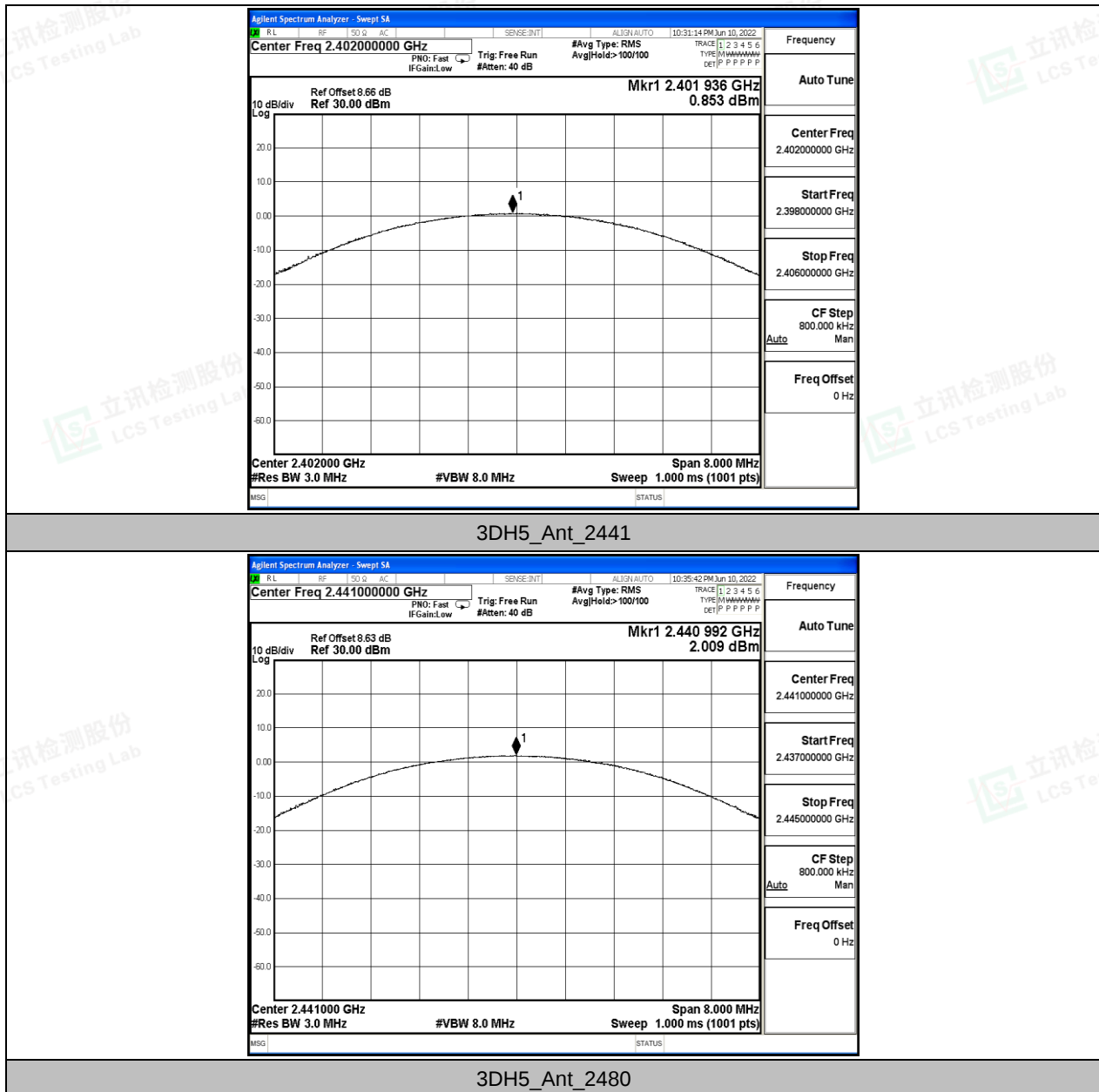


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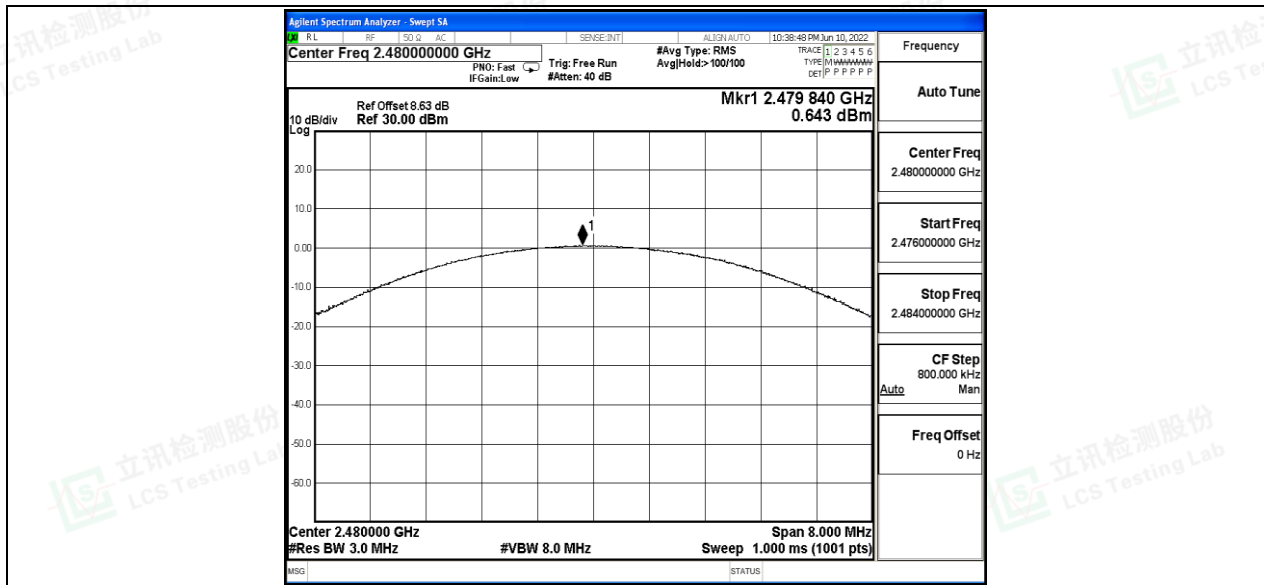


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### A.3 Carrier frequency separation

#### Test Result

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|---------|-------------|--------------|---------|
| DH5      | Ant     | Hop     | 1.008       | $\geq 0.698$ | PASS    |
| 2DH5     | Ant     | Hop     | 1.018       | $\geq 0.880$ | PASS    |
| 3DH5     | Ant     | Hop     | 1.018       | $\geq 0.866$ | PASS    |



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## Test Graphs

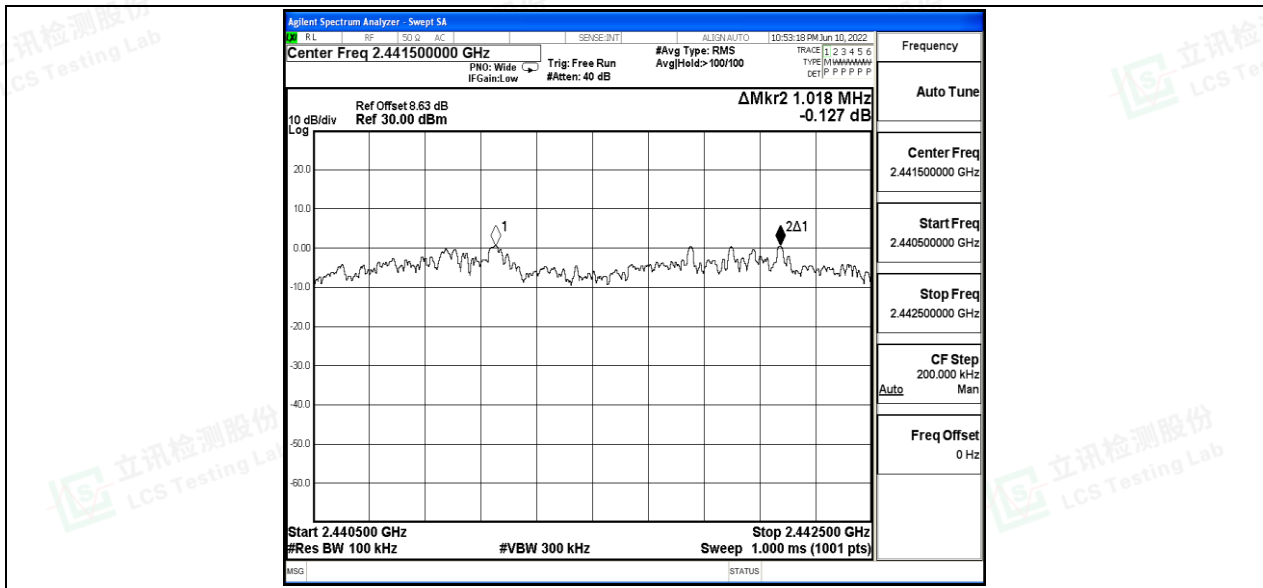


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## A.4 Time of occupancy

### Test Result

| TestMode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant     | Hop     | 2.88               | 106.67             | 0.307     | ≤0.4     | PASS    |
| 2DH5     | Ant     | Hop     | 2.88               | 106.67             | 0.307     | ≤0.4     | PASS    |
| 3DH5     | Ant     | Hop     | 2.89               | 106.67             | 0.308     | ≤0.4     | PASS    |



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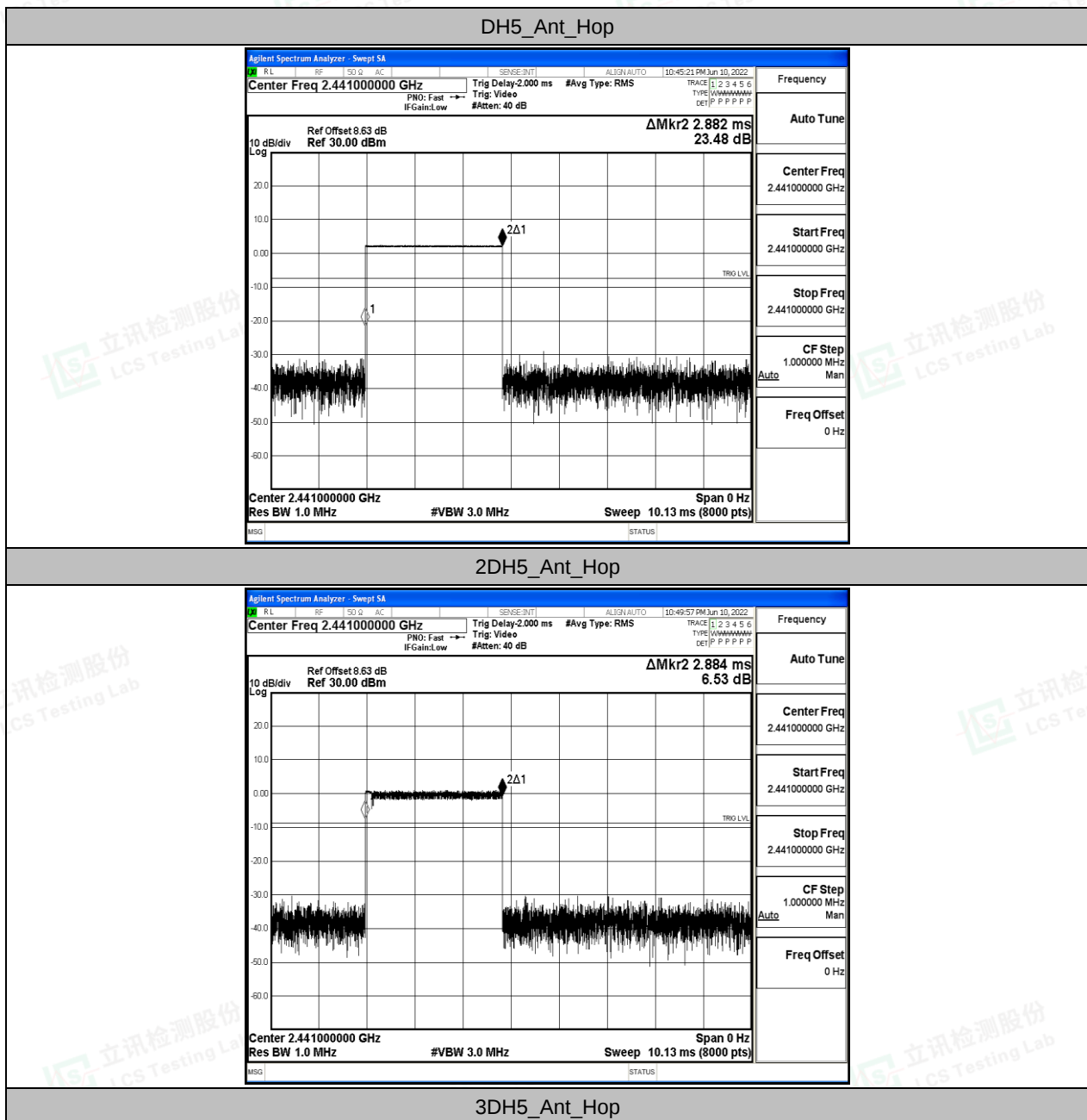
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## Test Graphs

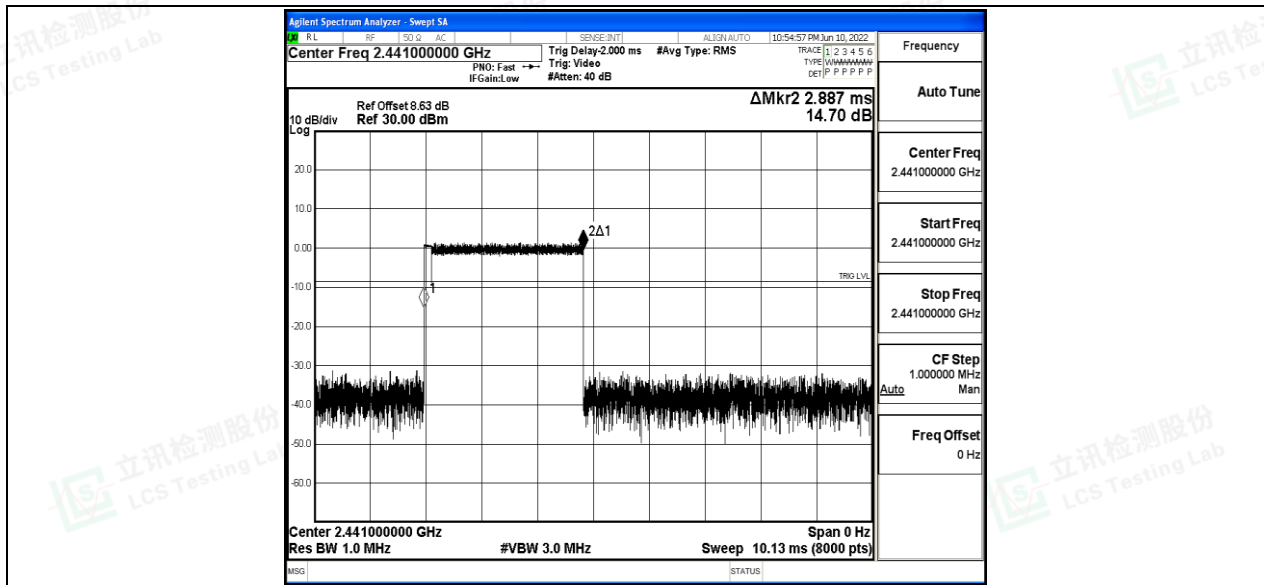


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## A.5 Number of hopping channels

### Test Result

| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant     | Hop     | 79          | $\geq 15$  | PASS    |
| 2DH5     | Ant     | Hop     | 79          | $\geq 15$  | PASS    |
| 3DH5     | Ant     | Hop     | 79          | $\geq 15$  | PASS    |



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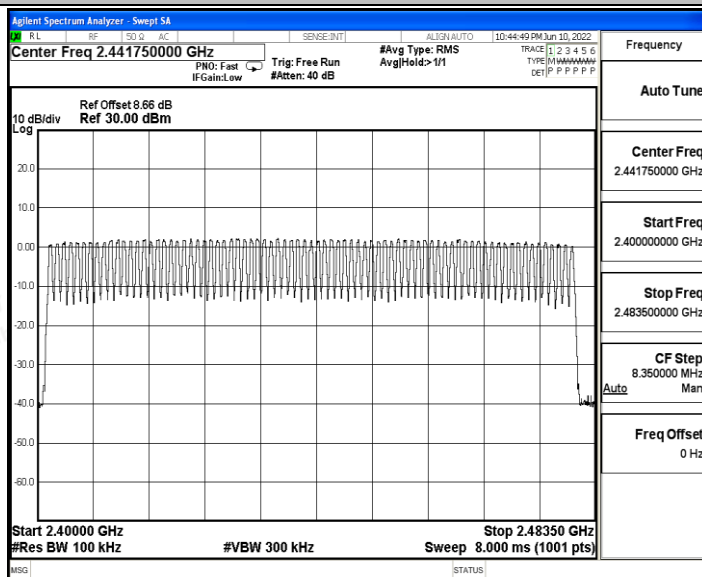
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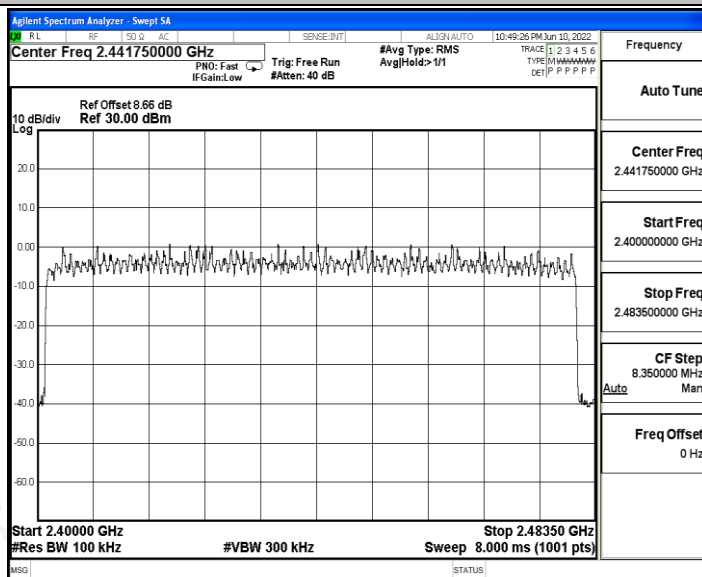
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## DH5 Ant Hop



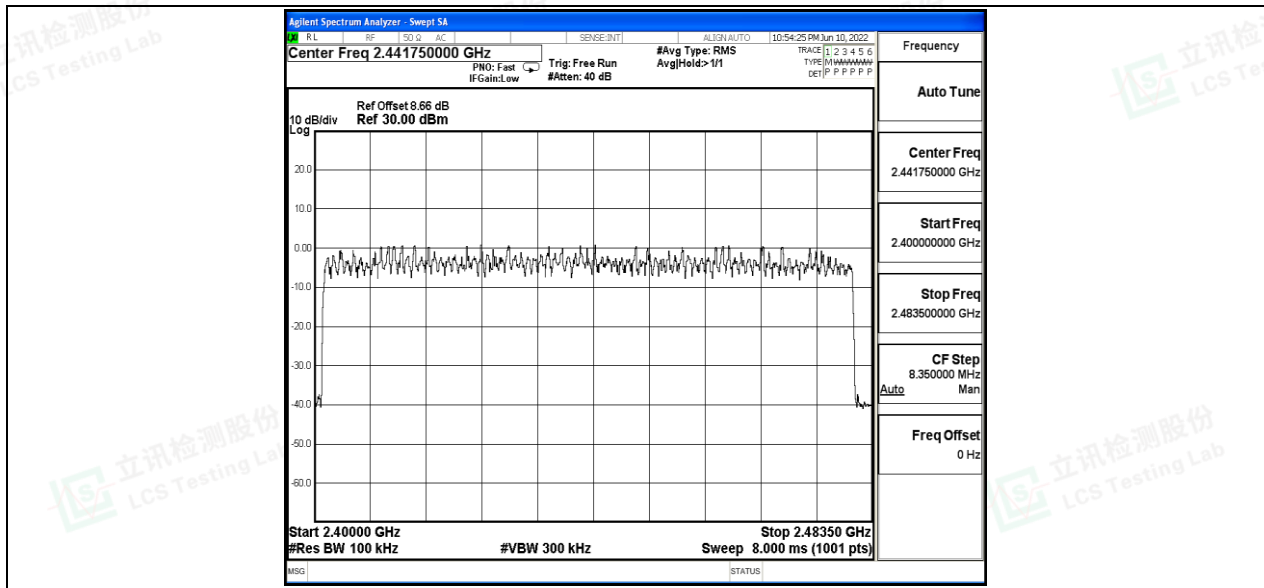
## 2DH5 Ant Hop



## 3DH5 Ant Hop



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## A.6 Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel  | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|----------|-------------------|-----------------|----------------|---------|
| DH5      | Ant     | Low    | 2402     | 1.13              | -49.02          | $\leq -18.87$  | PASS    |
|          |         | High   | 2480     | 0.85              | -47.82          | $\leq -19.15$  | PASS    |
|          |         | Low    | Hop_2402 | 0.50              | -48.79          | $\leq -19.5$   | PASS    |
|          |         | High   | Hop_2480 | 1.08              | -47.29          | $\leq -18.92$  | PASS    |
| 2DH5     | Ant     | Low    | 2402     | -0.48             | -48.5           | $\leq -20.48$  | PASS    |
|          |         | High   | 2480     | -0.43             | -48.19          | $\leq -20.43$  | PASS    |
|          |         | Low    | Hop_2402 | -4.34             | -49.11          | $\leq -24.34$  | PASS    |
|          |         | High   | Hop_2480 | -0.39             | -47.68          | $\leq -20.39$  | PASS    |
| 3DH5     | Ant     | Low    | 2402     | -3.36             | -48.61          | $\leq -23.36$  | PASS    |
|          |         | High   | 2480     | -0.53             | -48.35          | $\leq -20.53$  | PASS    |
|          |         | Low    | Hop_2402 | -2.44             | -48.78          | $\leq -22.44$  | PASS    |
|          |         | High   | Hop_2480 | -1.62             | -47.39          | $\leq -21.62$  | PASS    |



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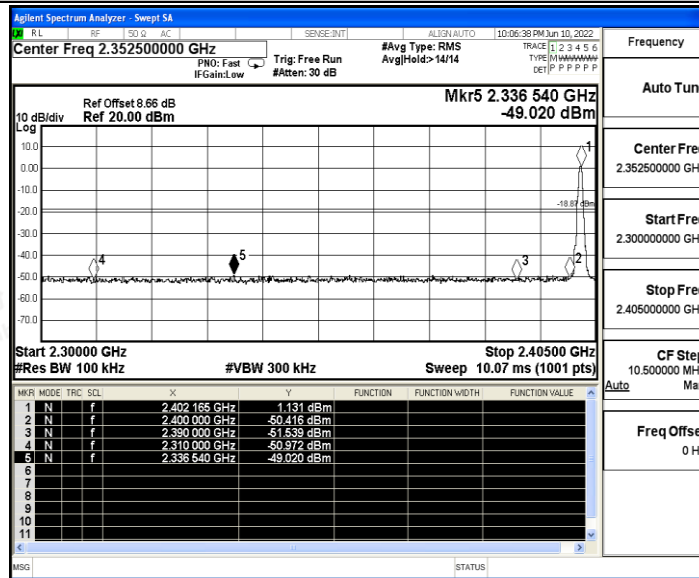
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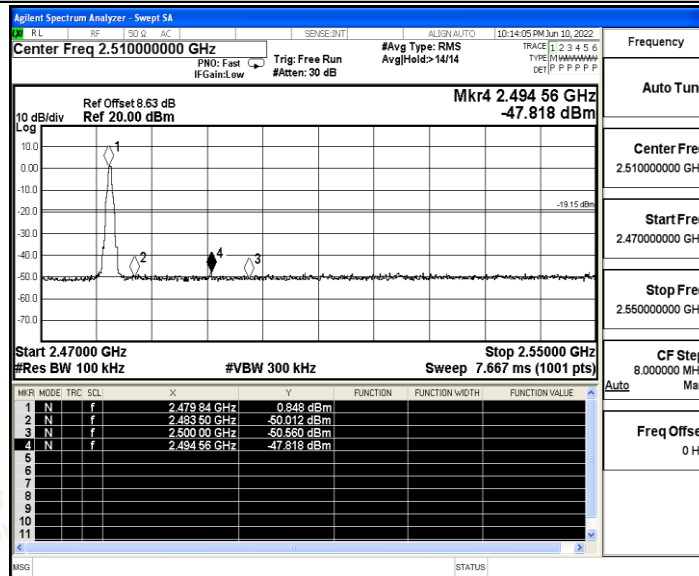


## Test Graphs

DH5\_Ant\_Low\_2402



DH5\_Ant\_High\_2480



DH5\_Ant\_Low\_Hop\_2402

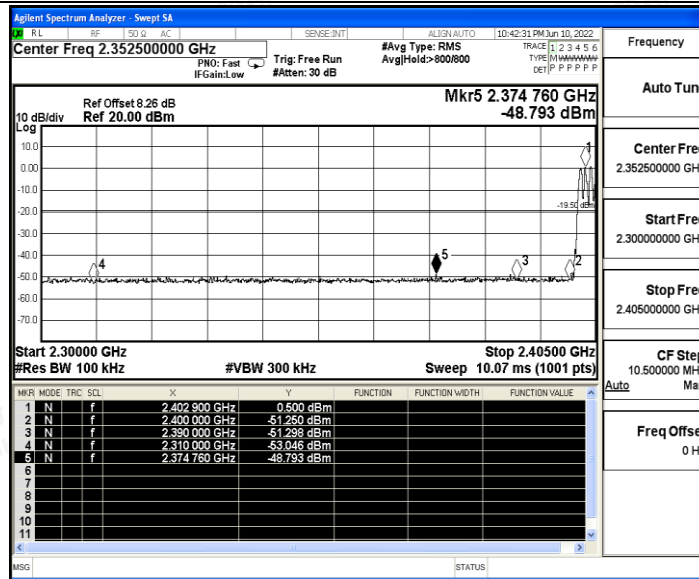


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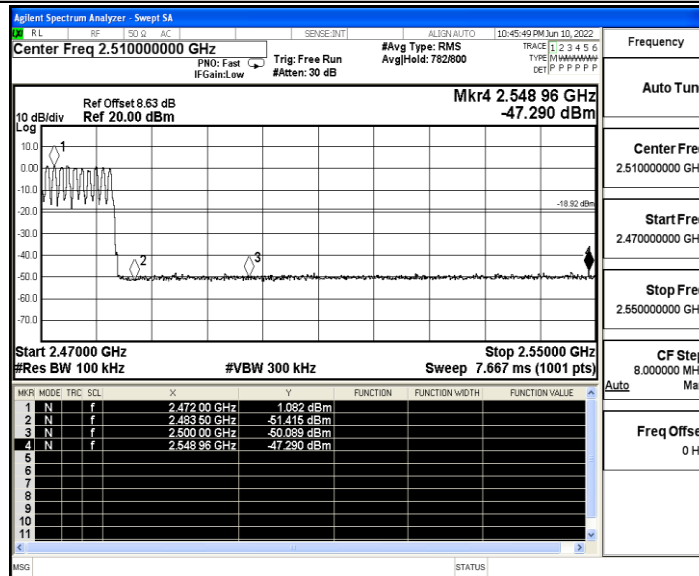
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DH5\_Ant\_High\_Hop\_2480



2DH5\_Ant\_Low\_2402

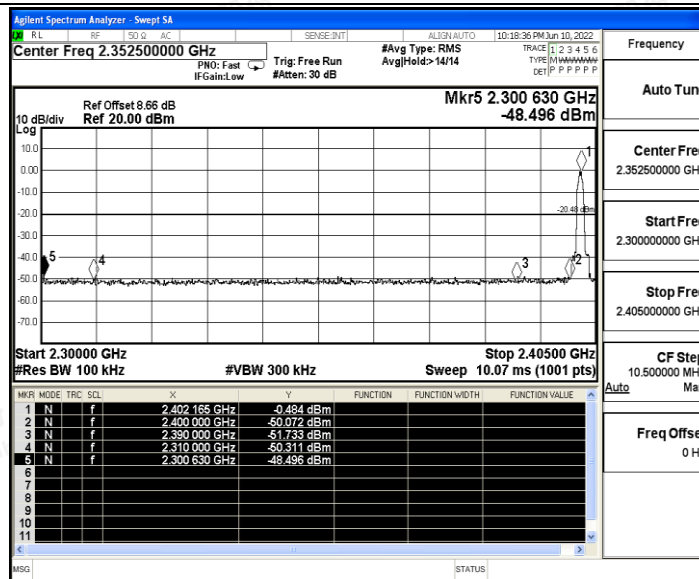


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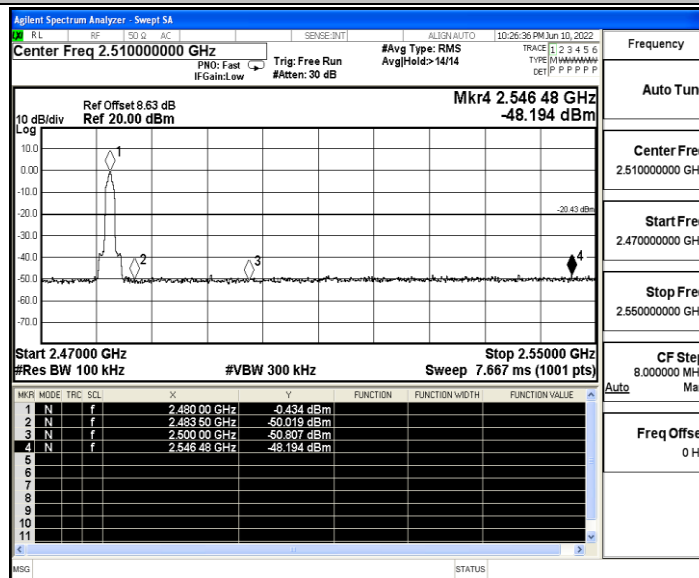
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2DH5\_Ant\_High\_2480



2DH5\_Ant\_Low\_Hop\_2402

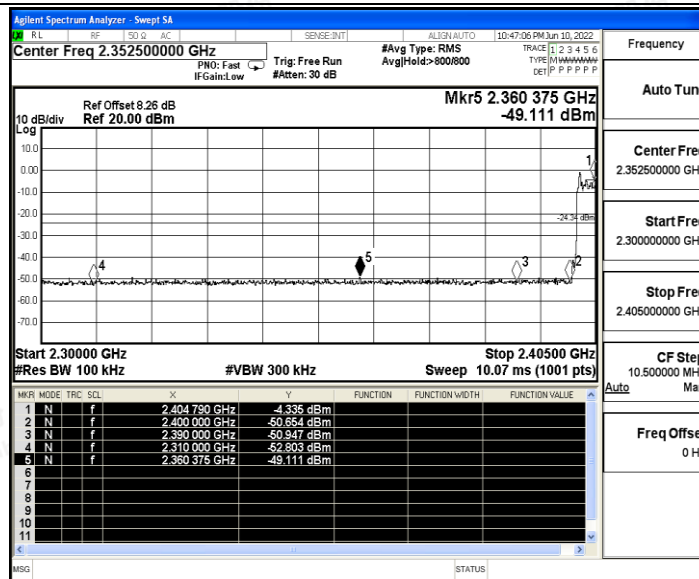


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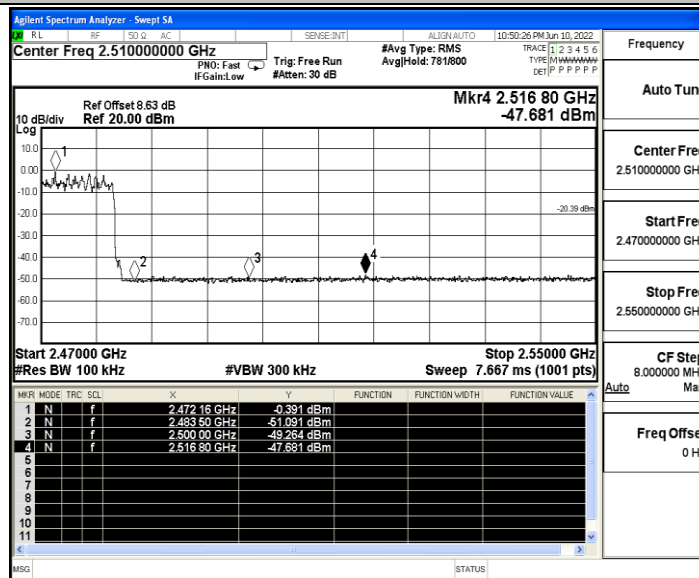
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2DH5\_Ant\_High\_Hop\_2480



3DH5\_Ant\_Low\_2402

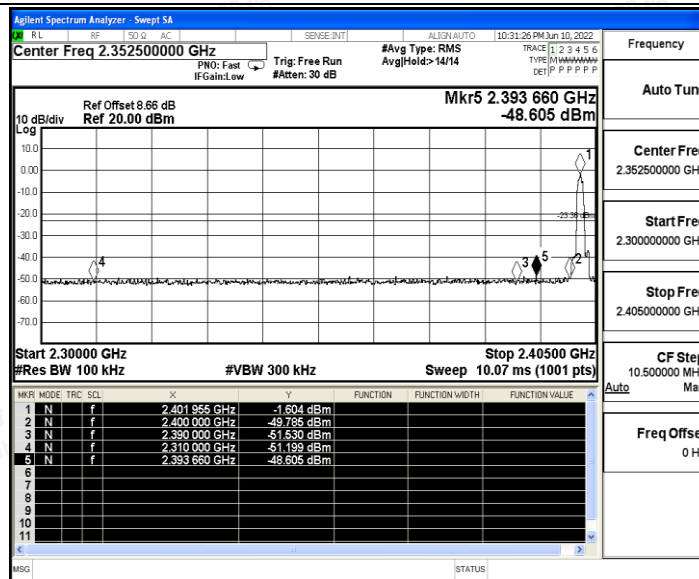


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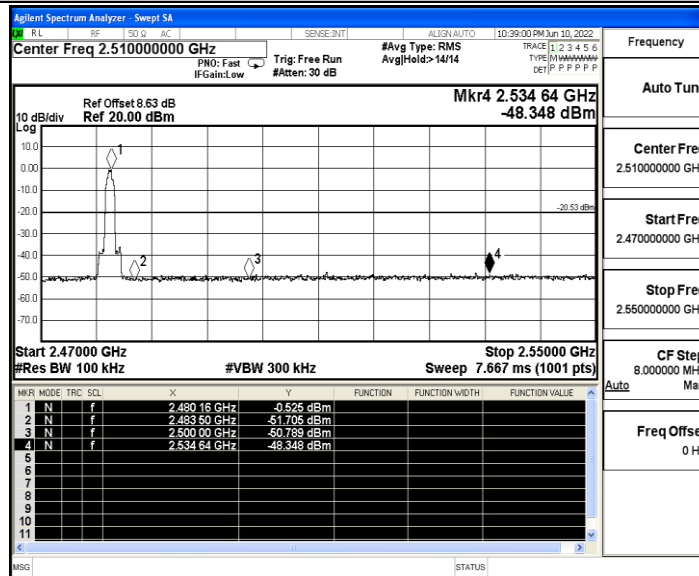
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3DH5\_Ant\_High\_2480



3DH5\_Ant\_Low\_Hop\_2402

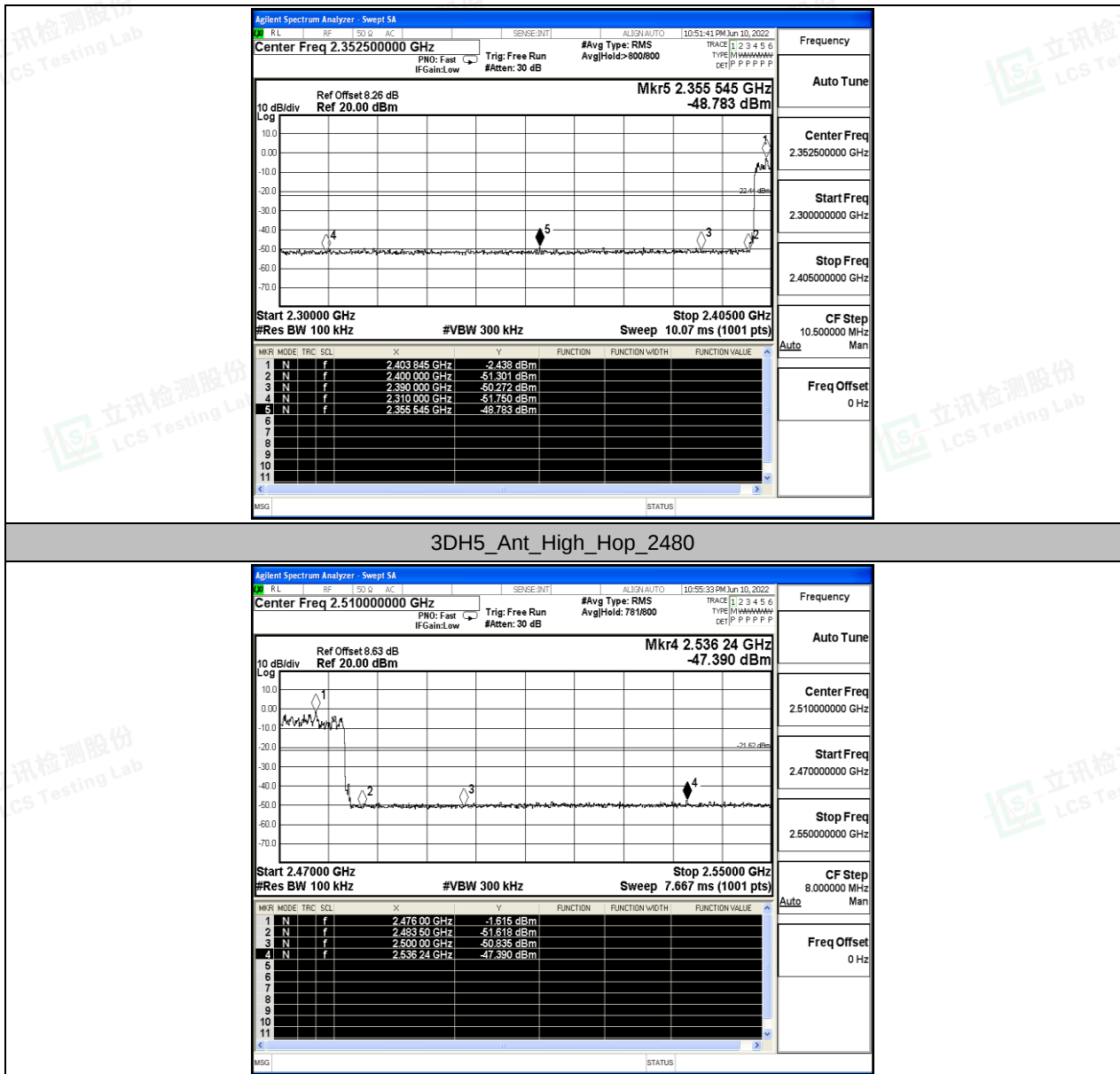


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## A.7 Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| DH5      | Ant     | 2402    | Reference          | 1.02              | 1.02            | ---            | PASS    |
|          |         |         | 30~1000            | 1.02              | -50.64          | $\leq -18.98$  | PASS    |
|          |         |         | 1000~26500         | 1.02              | -46.52          | $\leq -18.98$  | PASS    |
|          |         | 2441    | Reference          | 2.18              | 2.18            | ---            | PASS    |
|          |         |         | 30~1000            | 2.18              | -48.97          | $\leq -17.82$  | PASS    |
|          |         |         | 1000~26500         | 2.18              | -45.91          | $\leq -17.82$  | PASS    |
|          |         | 2480    | Reference          | 0.86              | 0.86            | ---            | PASS    |
|          |         |         | 30~1000            | 0.86              | -47.29          | $\leq -19.14$  | PASS    |
|          |         |         | 1000~26500         | 0.86              | -45.93          | $\leq -19.14$  | PASS    |
| 2DH5     | Ant     | 2402    | Reference          | -0.61             | -0.61           | ---            | PASS    |
|          |         |         | 30~1000            | -0.61             | -49.87          | $\leq -20.61$  | PASS    |
|          |         |         | 1000~26500         | -0.61             | -45.81          | $\leq -20.61$  | PASS    |
|          |         | 2441    | Reference          | 0.50              | 0.50            | ---            | PASS    |
|          |         |         | 30~1000            | 0.50              | -49.8           | $\leq -19.5$   | PASS    |
|          |         |         | 1000~26500         | 0.50              | -46.23          | $\leq -19.5$   | PASS    |
|          |         | 2480    | Reference          | -0.55             | -0.55           | ---            | PASS    |
|          |         |         | 30~1000            | -0.55             | -49.58          | $\leq -20.55$  | PASS    |
|          |         |         | 1000~26500         | -0.55             | -46.08          | $\leq -20.55$  | PASS    |
| 3DH5     | Ant     | 2402    | Reference          | -0.71             | -0.71           | ---            | PASS    |
|          |         |         | 30~1000            | -0.71             | -50.15          | $\leq -20.71$  | PASS    |
|          |         |         | 1000~26500         | -0.71             | -45.08          | $\leq -20.71$  | PASS    |
|          |         | 2441    | Reference          | 0.46              | 0.46            | ---            | PASS    |
|          |         |         | 30~1000            | 0.46              | -50.3           | $\leq -19.54$  | PASS    |
|          |         |         | 1000~26500         | 0.46              | -46.25          | $\leq -19.54$  | PASS    |
|          |         | 2480    | Reference          | -1.57             | -1.57           | ---            | PASS    |
|          |         |         | 30~1000            | -1.57             | -49.75          | $\leq -21.57$  | PASS    |
|          |         |         | 1000~26500         | -1.57             | -46.39          | $\leq -21.57$  | PASS    |



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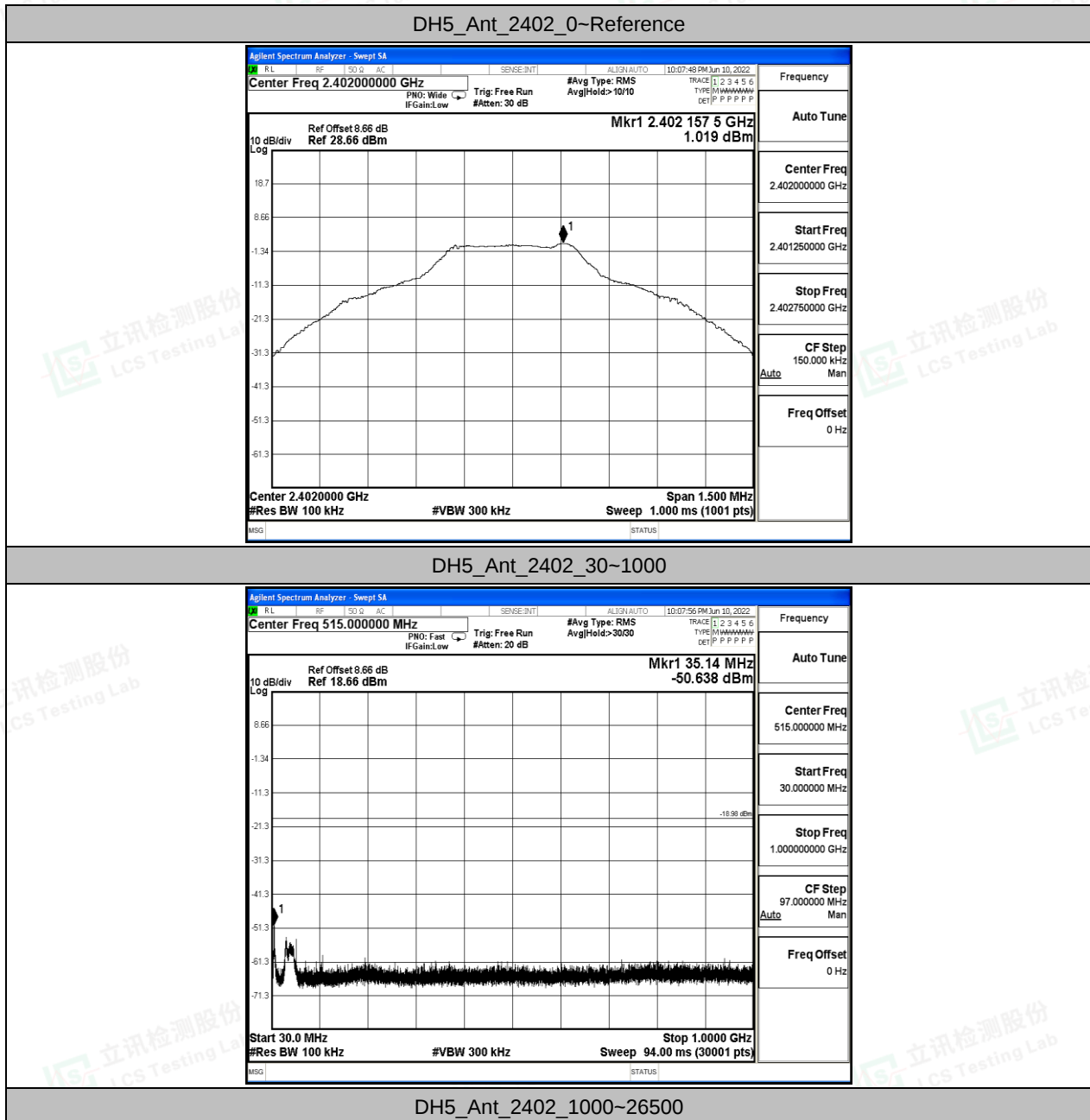
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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## Test Graphs

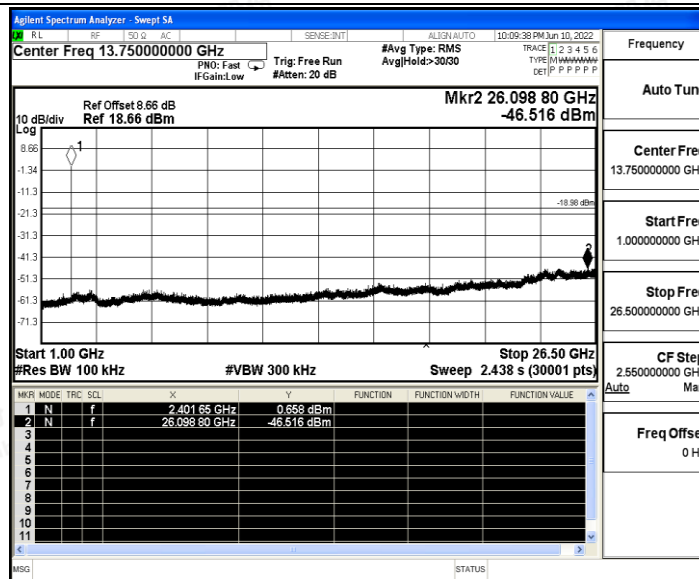


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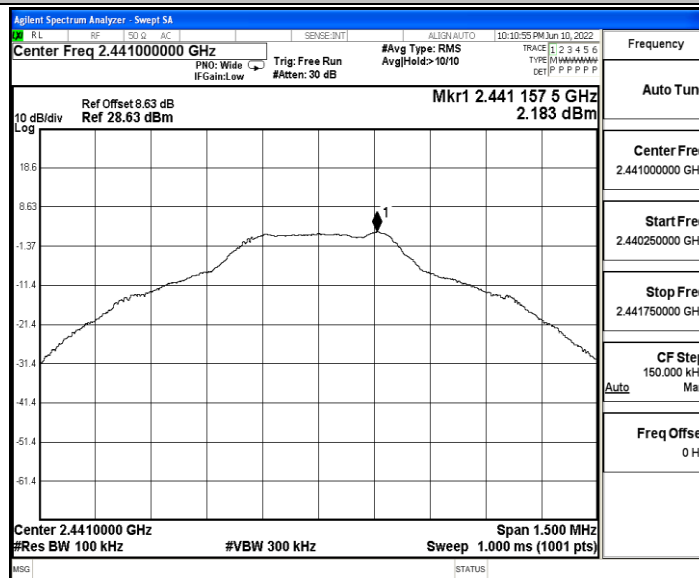
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DH5\_Ant\_2441\_0-Reference



DH5\_Ant\_2441\_30-1000

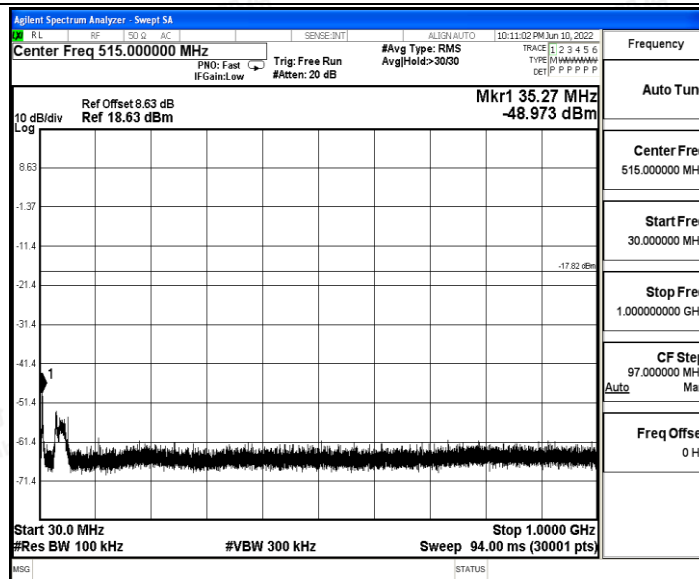


Shenzhen LCS Compliance Testing Laboratory Ltd.

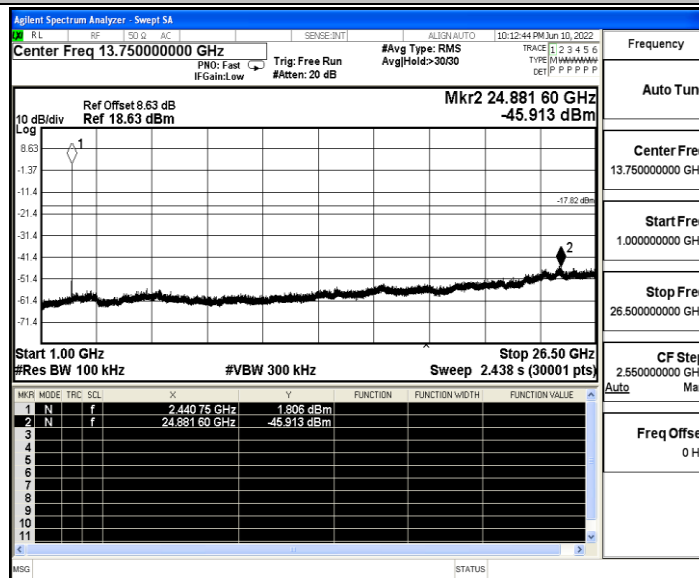
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5\_Ant\_2441\_1000~26500



DH5\_Ant\_2480\_0~Reference

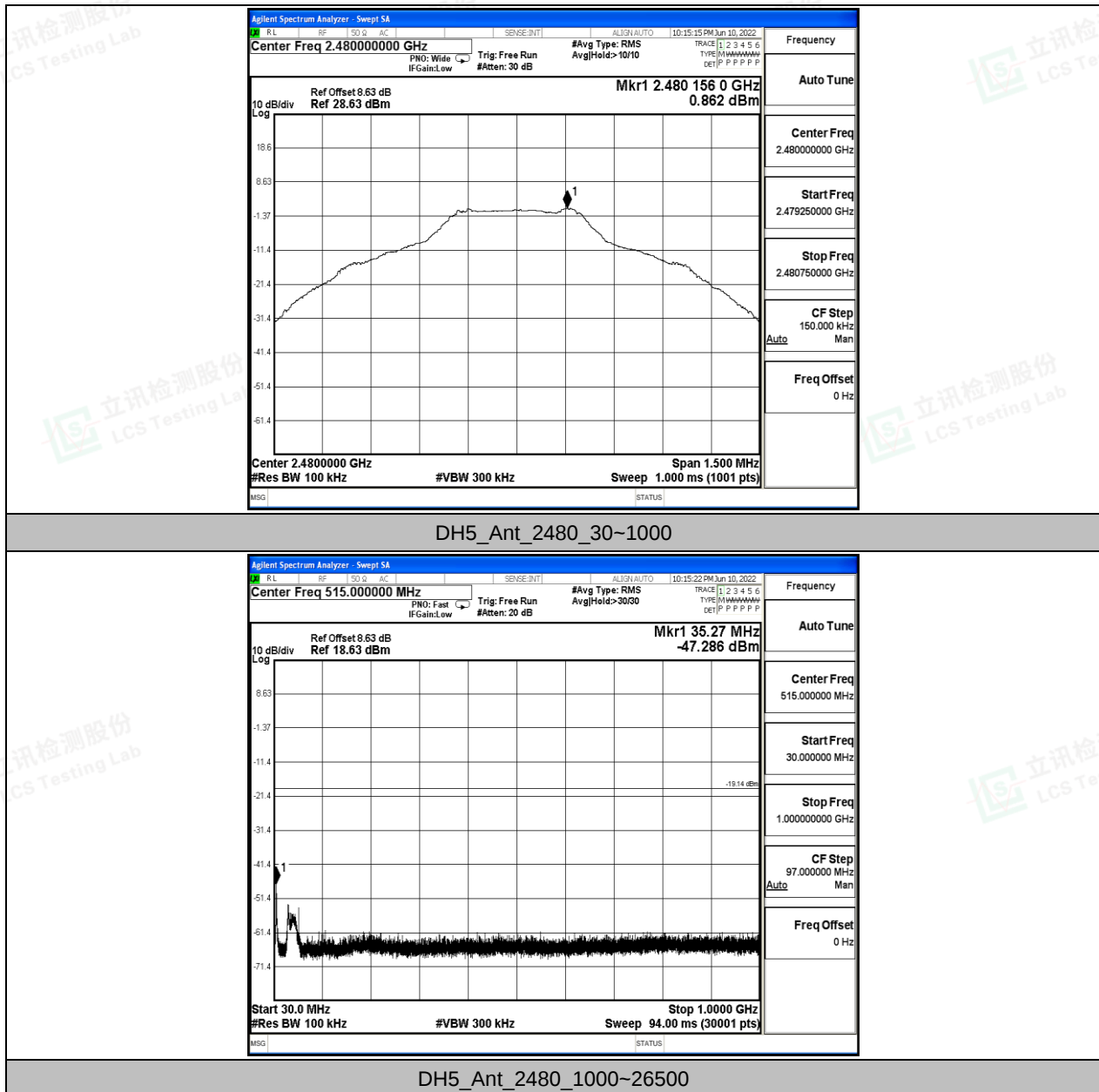


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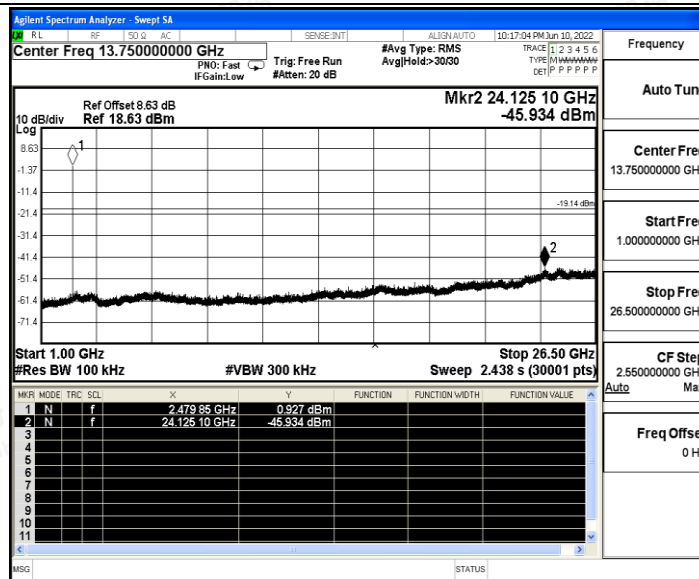


Shenzhen LCS Compliance Testing Laboratory Ltd.

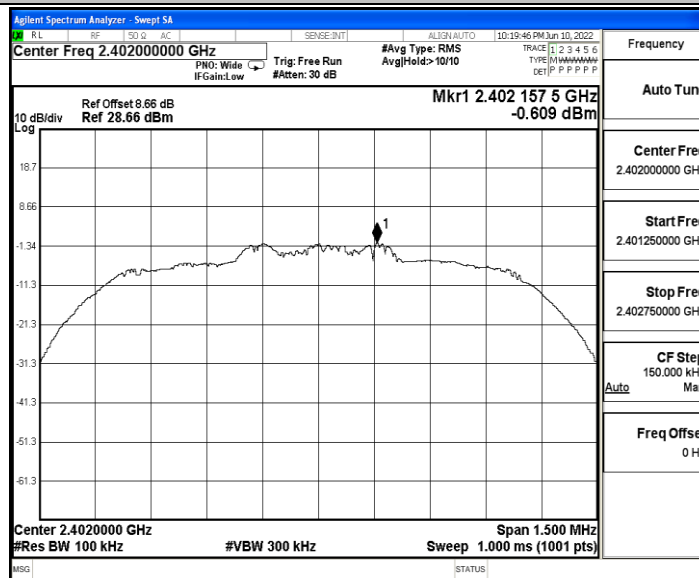
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5\_Ant\_2402\_0~Reference



2DH5\_Ant\_2402\_30~1000

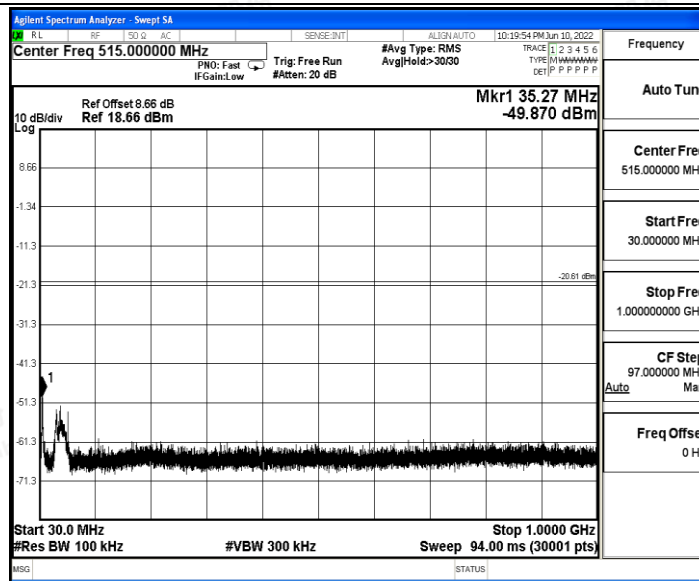


Shenzhen LCS Compliance Testing Laboratory Ltd.

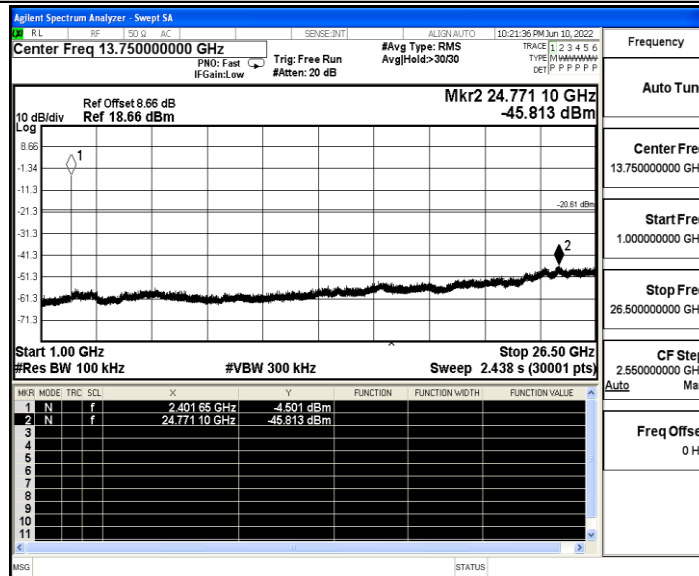
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5\_Ant\_2402\_1000~26500



2DH5\_Ant\_2441\_0~Reference

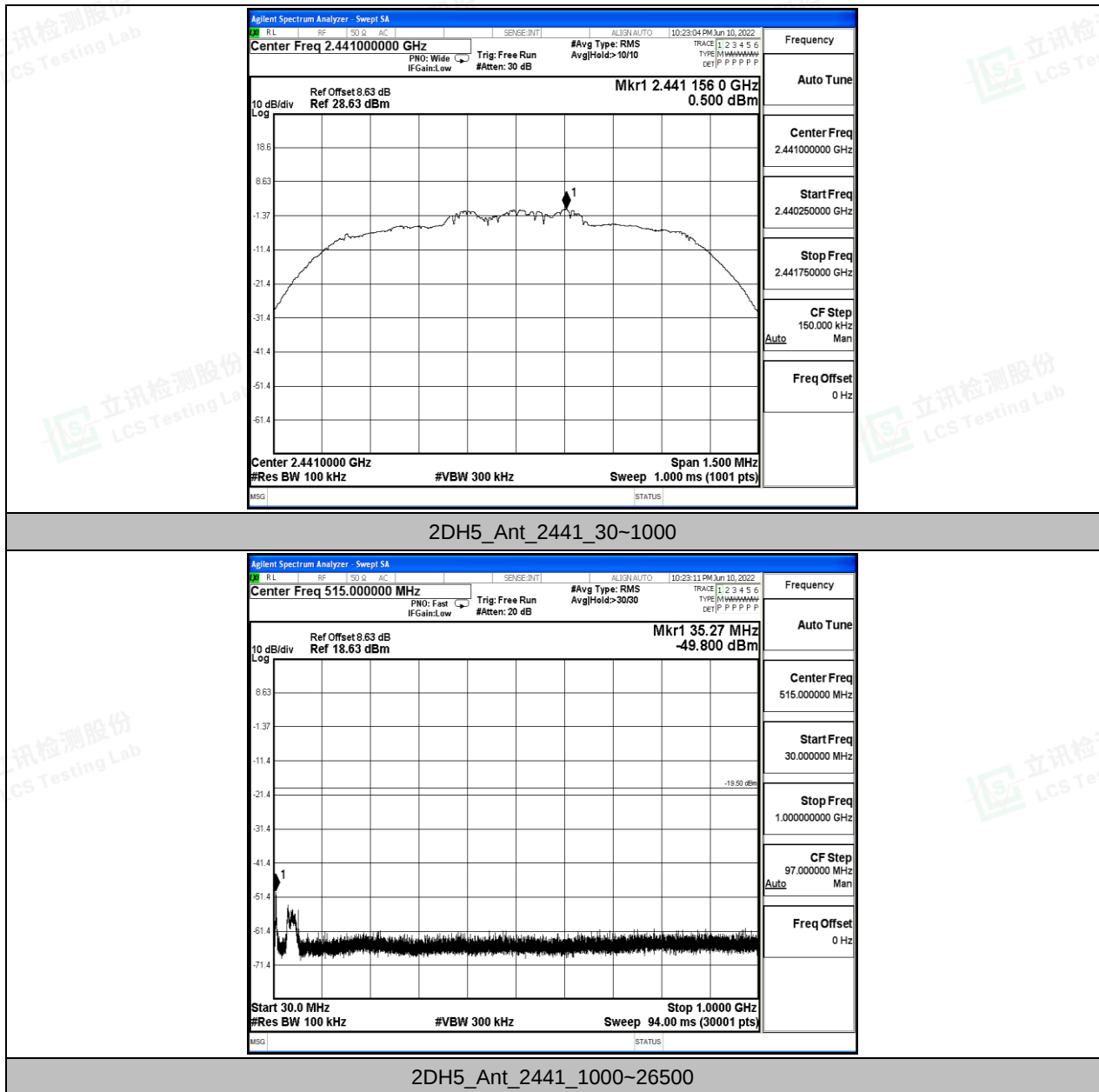


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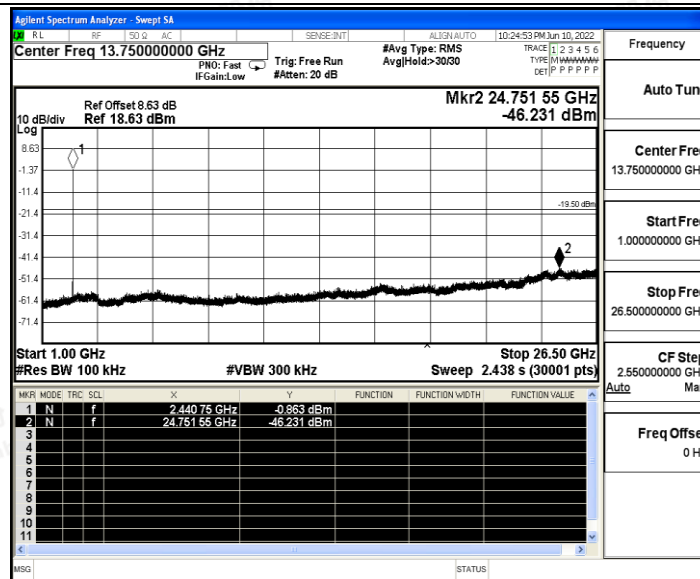


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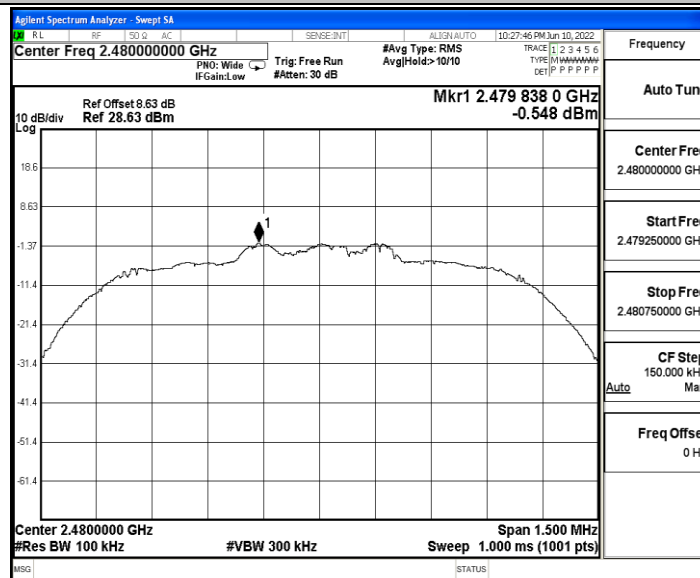
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2DH5\_Ant\_2480\_0~Reference



2DH5\_Ant\_2480\_30~1000

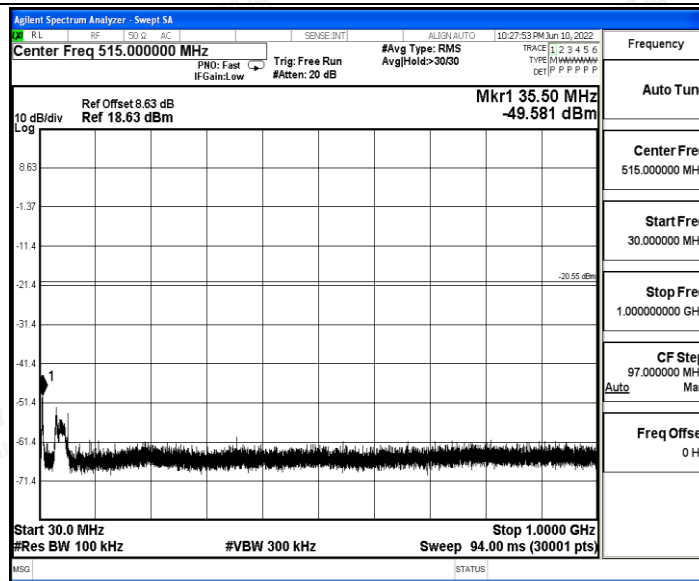


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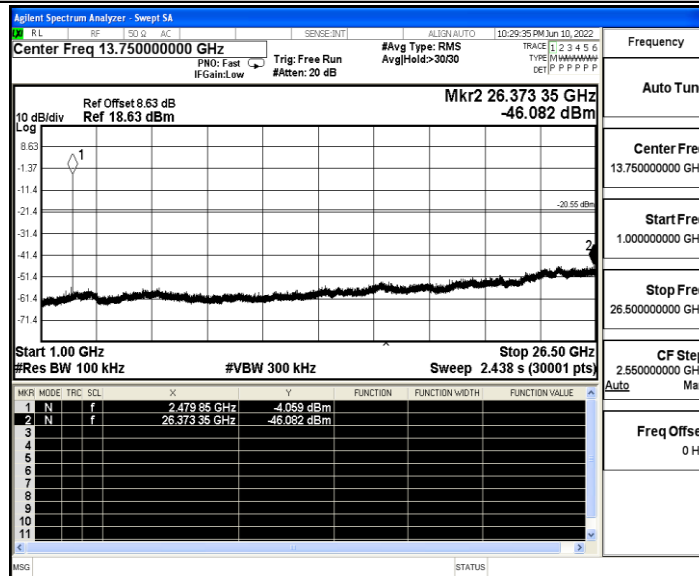
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2DH5\_Ant\_2480\_1000~26500



3DH5\_Ant\_2402\_0~Reference

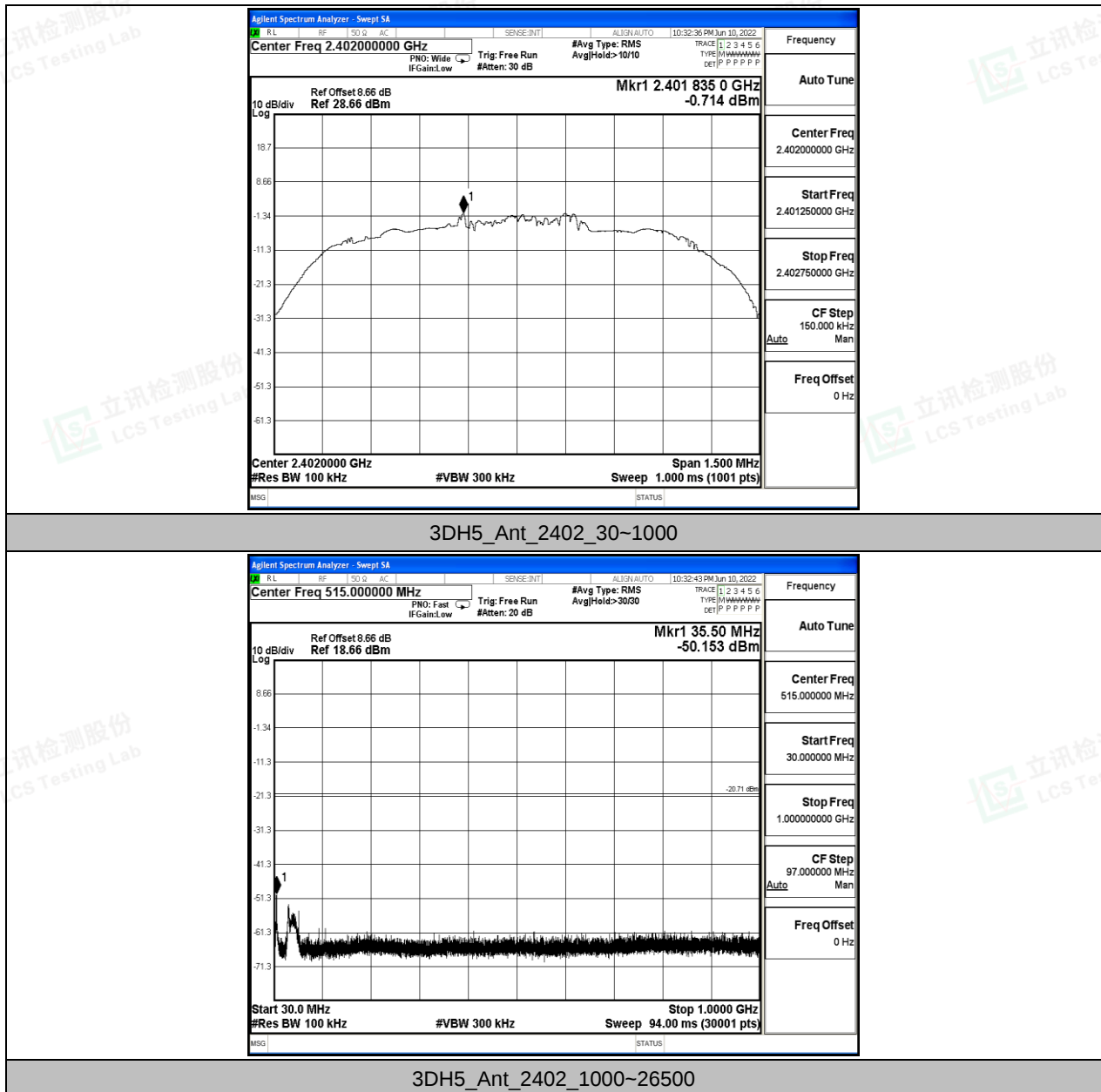


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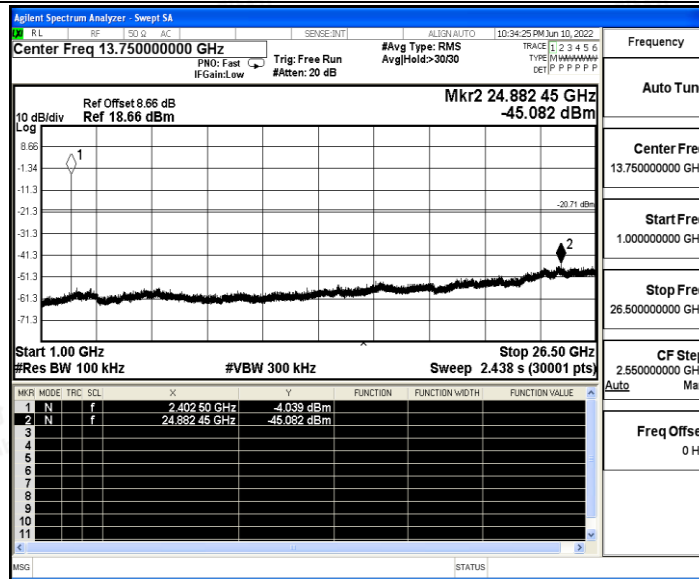


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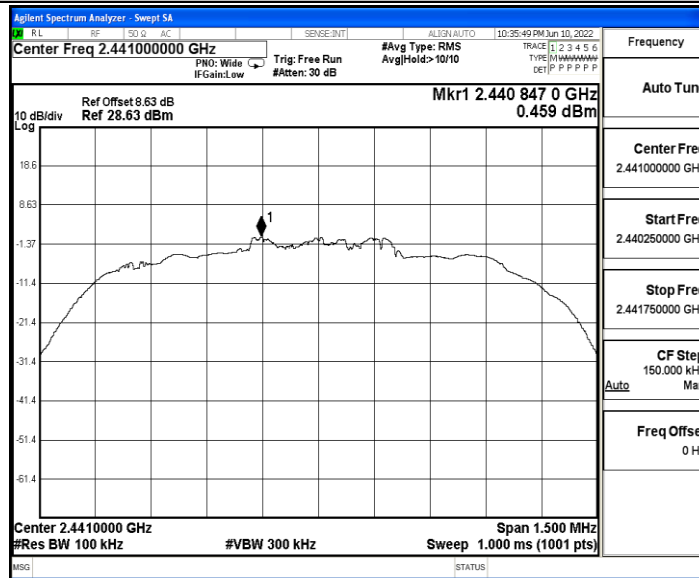
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3DH5\_Ant\_2441\_0~Reference



3DH5\_Ant\_2441\_30~1000

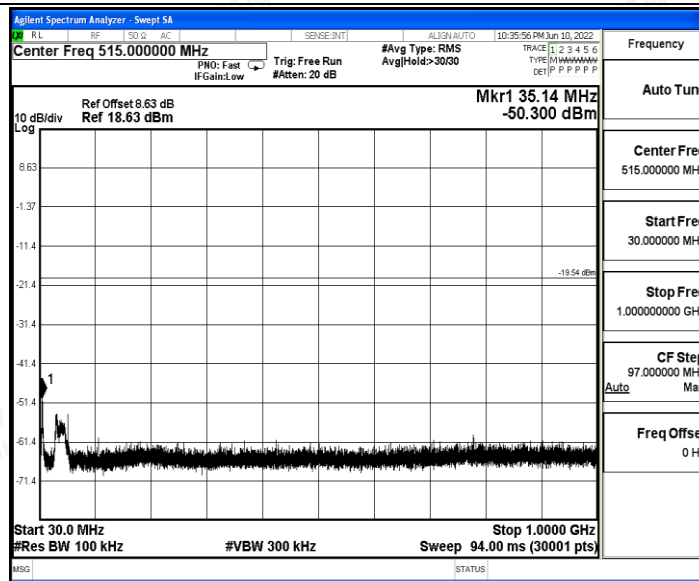


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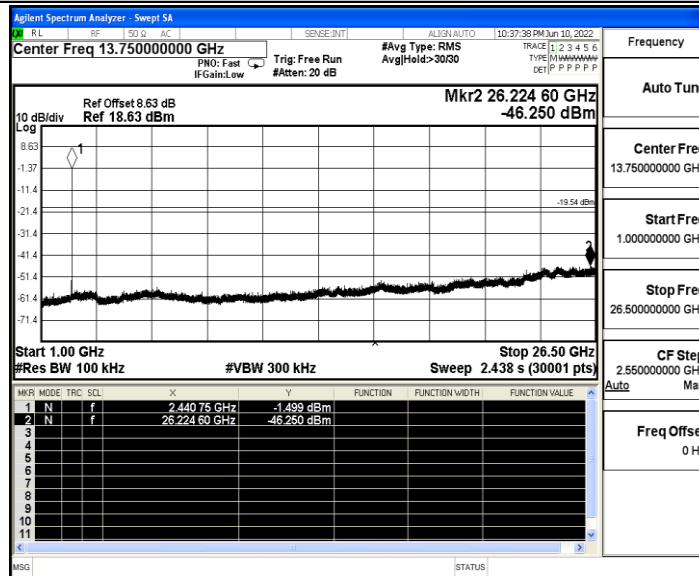
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5\_Ant\_2441\_1000~26500



3DH5\_Ant\_2480\_0~Reference

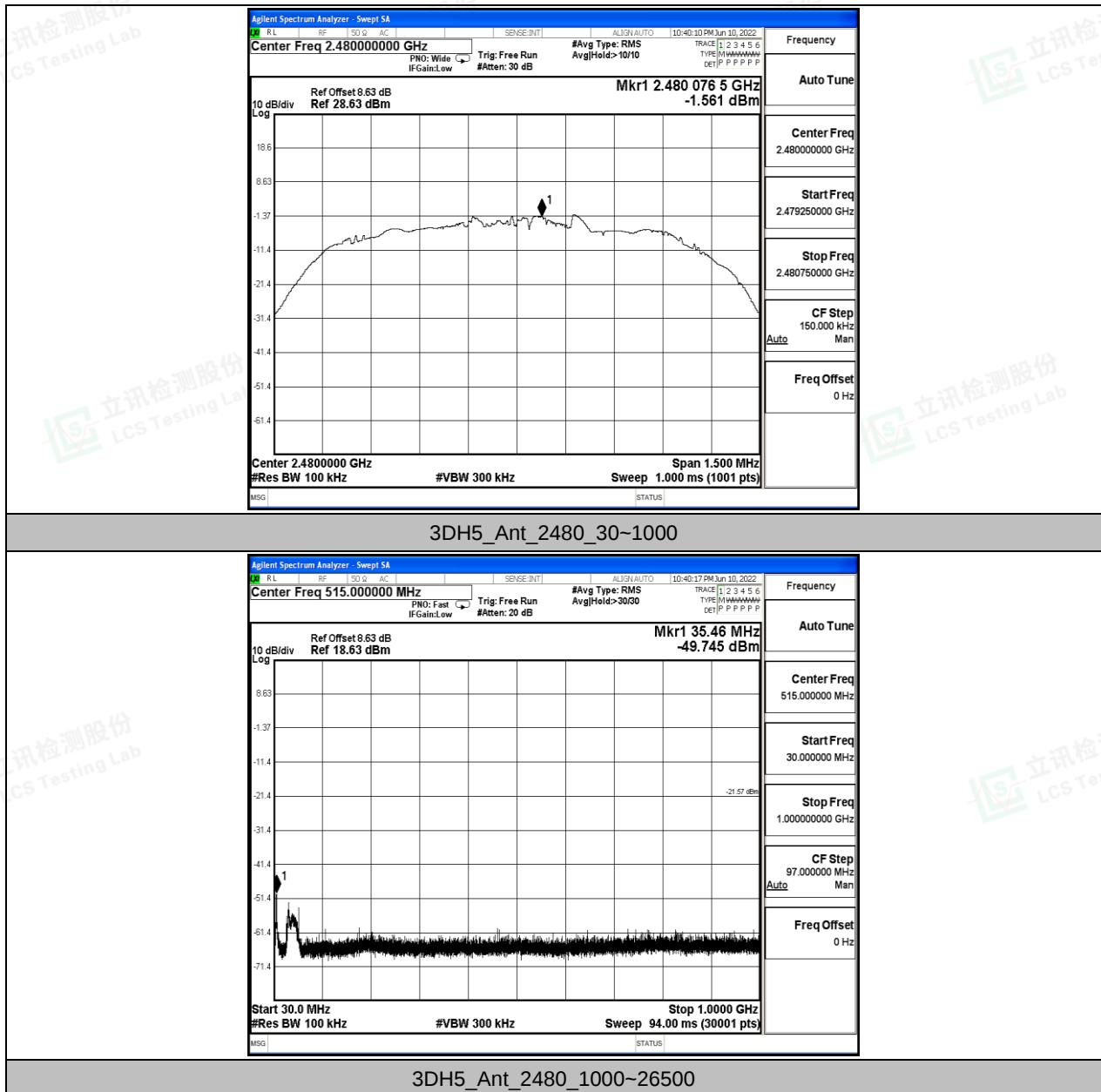


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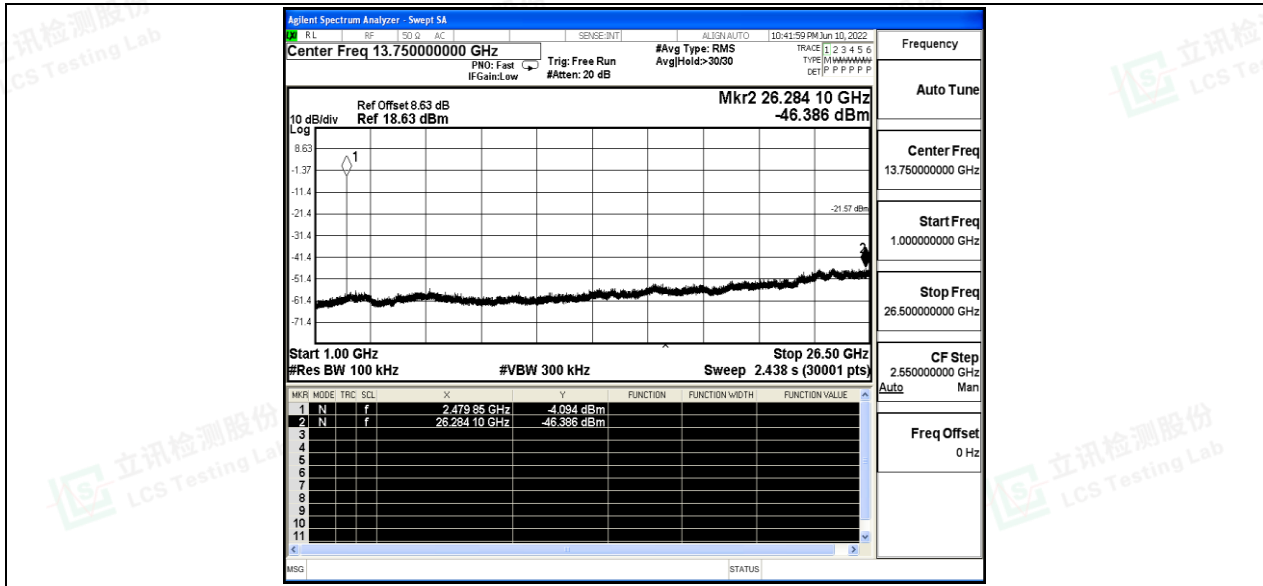


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## A.8 Emissions in Restricted Bands

### Test Result

| TestMode | Antenna | ChName | Channel | Detector | Freq.<br>[MHz] | Result<br>[dBm] | Limit<br>[dBm] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Verdict |
|----------|---------|--------|---------|----------|----------------|-----------------|----------------|--------------------|-------------------|---------|
| DH5      | Ant     | Low    | 2402    | AV       | 2310.000       | -48.17          | ≤-41.20        | 47.03              | ≤54               | PASS    |
|          |         |        |         | AV       | 2382.005       | -47.71          | ≤-41.20        | 47.49              | ≤54               | PASS    |
|          |         |        |         | AV       | 2390.000       | -47.89          | ≤-41.20        | 47.31              | ≤54               | PASS    |
|          |         |        |         | Peak     | 2310.000       | -39.13          | ≤-21.20        | 56.07              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2377.280       | -36.15          | ≤-21.20        | 59.05              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2390.000       | -38.56          | ≤-21.20        | 56.64              | ≤74               | PASS    |
|          |         | High   | 2480    | AV       | 2483.500       | -47.24          | ≤-41.20        | 47.96              | ≤54               | PASS    |
|          |         |        |         | AV       | 2495.200       | -47.18          | ≤-41.20        | 48.02              | ≤54               | PASS    |
|          |         |        |         | AV       | 2500.000       | -47.37          | ≤-41.20        | 47.83              | ≤54               | PASS    |
|          |         |        |         | Peak     | 2483.500       | -37.39          | ≤-21.20        | 57.81              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2499.280       | -35.86          | ≤-21.20        | 59.34              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2500.000       | -38.34          | ≤-21.20        | 56.86              | ≤74               | PASS    |
| 2DH5     | Ant     | Low    | 2402    | AV       | 2310.000       | -48.29          | ≤-41.20        | 46.91              | ≤54               | PASS    |
|          |         |        |         | AV       | 2378.540       | -47.8           | ≤-41.20        | 47.40              | ≤54               | PASS    |
|          |         |        |         | AV       | 2390.000       | -47.87          | ≤-41.20        | 47.33              | ≤54               | PASS    |
|          |         |        |         | Peak     | 2310.000       | -39.46          | ≤-21.20        | 55.74              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2381.165       | -36.45          | ≤-21.20        | 58.75              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2390.000       | -37.78          | ≤-21.20        | 57.42              | ≤74               | PASS    |
|          |         | High   | 2480    | AV       | 2483.500       | -47.2           | ≤-41.20        | 48.00              | ≤54               | PASS    |
|          |         |        |         | AV       | 2483.520       | -47.2           | ≤-41.20        | 48.00              | ≤54               | PASS    |
|          |         |        |         | AV       | 2500.000       | -47.28          | ≤-41.20        | 47.92              | ≤54               | PASS    |
|          |         |        |         | Peak     | 2483.500       | -38.1           | ≤-21.20        | 57.10              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2487.120       | -35.86          | ≤-21.20        | 59.34              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2500.000       | -38.48          | ≤-21.20        | 56.72              | ≤74               | PASS    |
| 3DH5     | Ant     | Low    | 2402    | AV       | 2310.000       | -48.26          | ≤-41.20        | 46.94              | ≤54               | PASS    |
|          |         |        |         | AV       | 2384.630       | -47.72          | ≤-41.20        | 47.48              | ≤54               | PASS    |
|          |         |        |         | AV       | 2390.000       | -47.93          | ≤-41.20        | 47.27              | ≤54               | PASS    |
|          |         |        |         | Peak     | 2310.000       | -38.63          | ≤-21.20        | 56.57              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2318.060       | -36.81          | ≤-21.20        | 58.39              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2390.000       | -38.85          | ≤-21.20        | 56.35              | ≤74               | PASS    |
|          |         | High   | 2480    | AV       | 2483.500       | -47.19          | ≤-41.20        | 48.01              | ≤54               | PASS    |
|          |         |        |         | AV       | 2483.520       | -47.19          | ≤-41.20        | 48.01              | ≤54               | PASS    |
|          |         |        |         | AV       | 2500.000       | -47.31          | ≤-41.20        | 47.89              | ≤54               | PASS    |
|          |         |        |         | Peak     | 2483.500       | -38.38          | ≤-21.20        | 56.82              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2499.840       | -36.17          | ≤-21.20        | 59.03              | ≤74               | PASS    |



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|  |  |  |      |          |        |         |       |     |      |
|--|--|--|------|----------|--------|---------|-------|-----|------|
|  |  |  | Peak | 2500.000 | -37.99 | ≤-21.20 | 57.21 | ≤74 | PASS |
|--|--|--|------|----------|--------|---------|-------|-----|------|

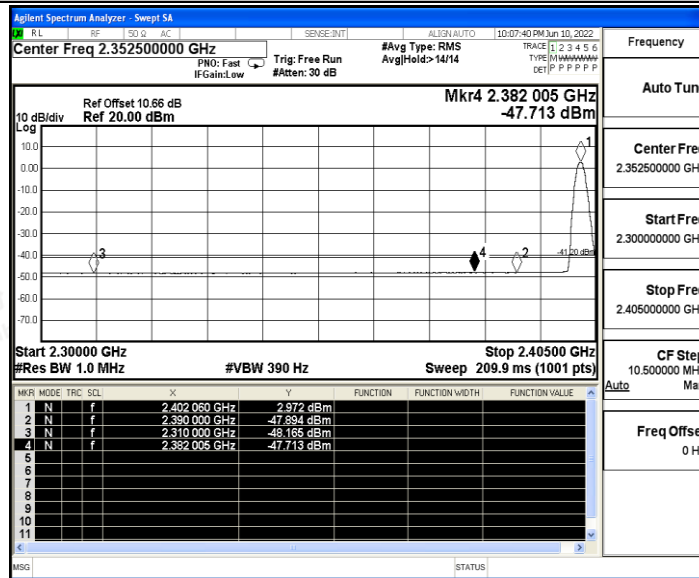
- Note:
1. The Antenna Gain is compensated in the graph.
  2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



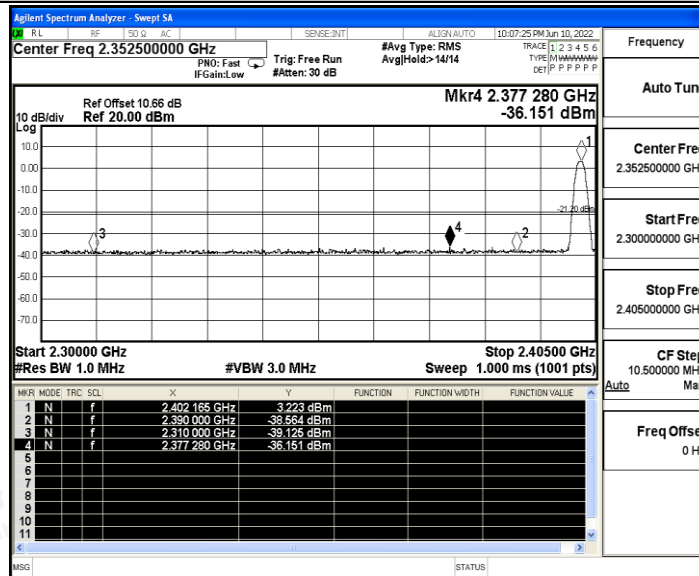


## Test Graphs

DH5\_Ant\_Low\_2402\_AV



DH5\_Ant\_Low\_2402\_Peak



DH5\_Ant\_High\_2480\_AV

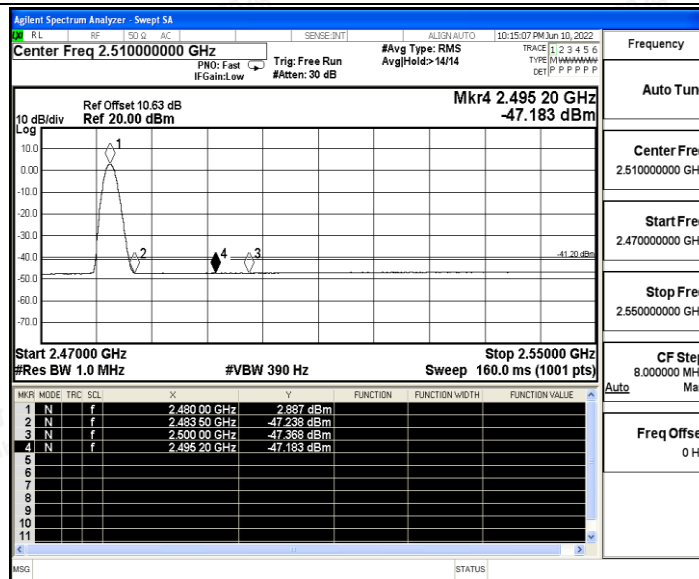


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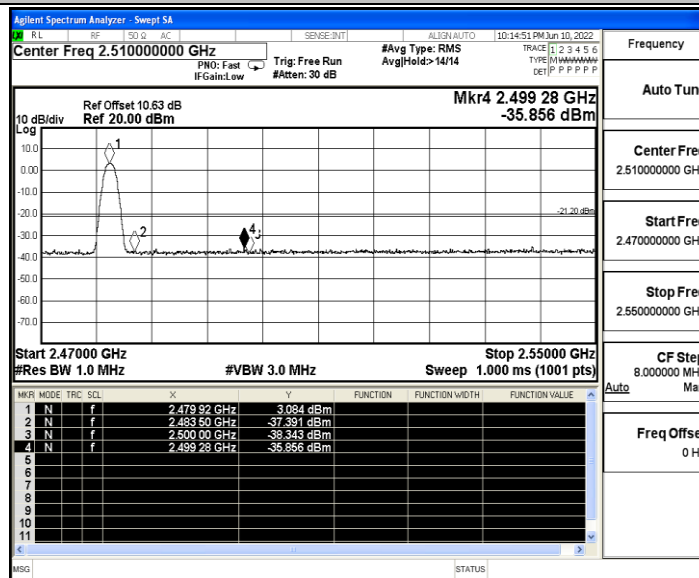
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5\_Ant\_High\_2480\_Peak



2DH5\_Ant\_Low\_2402\_AV

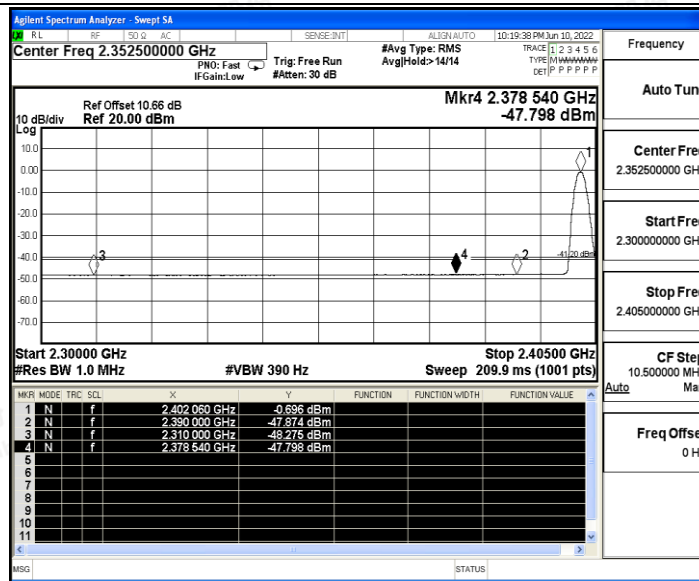


Shenzhen LCS Compliance Testing Laboratory Ltd.

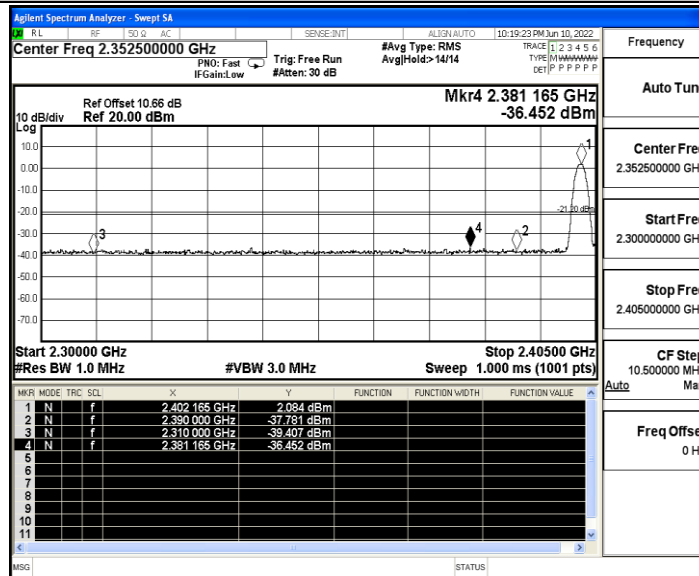
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5\_Ant\_Low\_2402\_Peak



2DH5\_Ant\_High\_2480\_AV

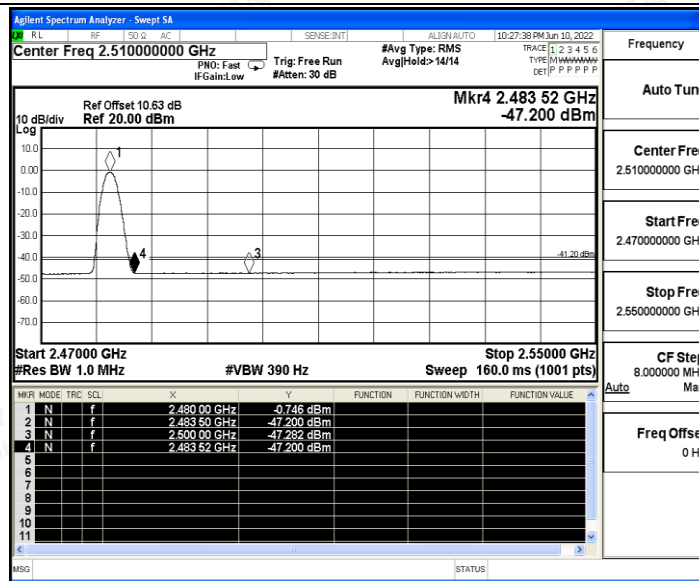


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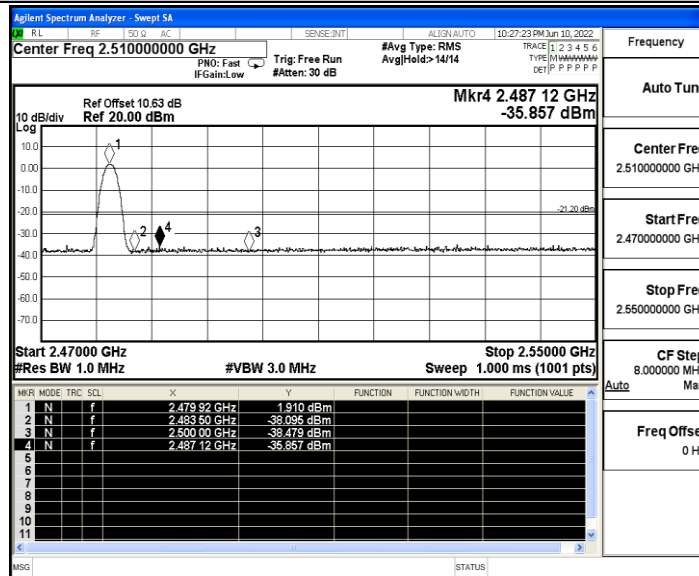
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2DH5\_Ant\_High\_2480\_Peak



3DH5\_Ant\_Low\_2402\_AV

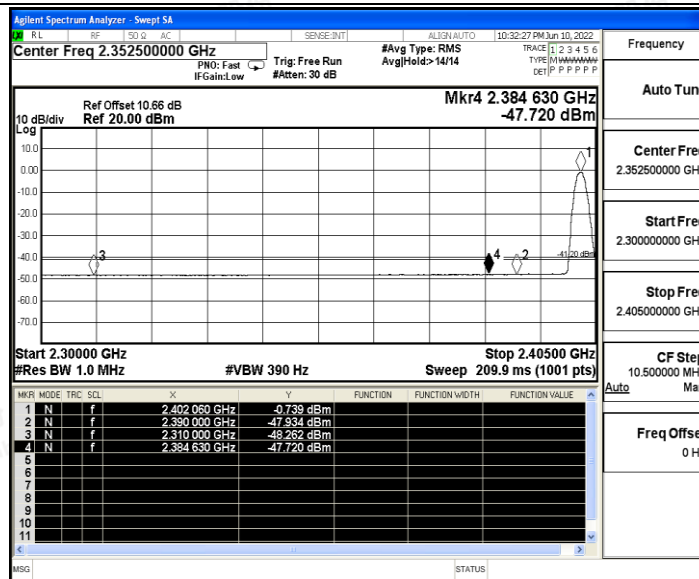


Shenzhen LCS Compliance Testing Laboratory Ltd.

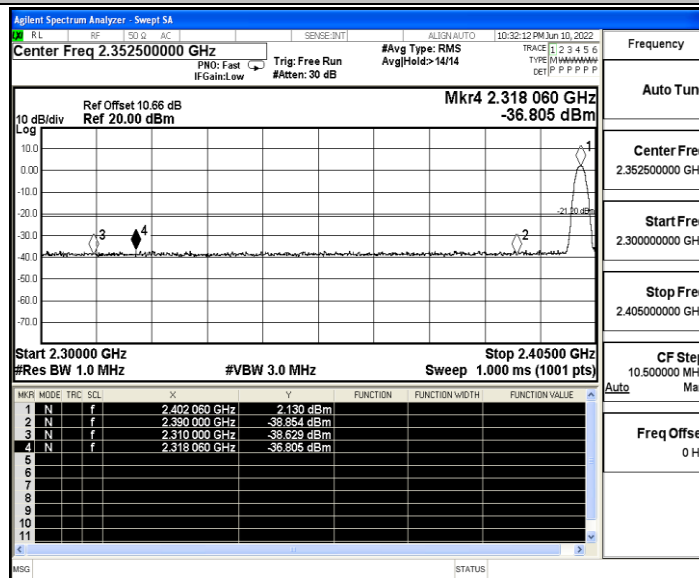
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5\_Ant\_Low\_2402\_Peak



3DH5\_Ant\_High\_2480\_AV

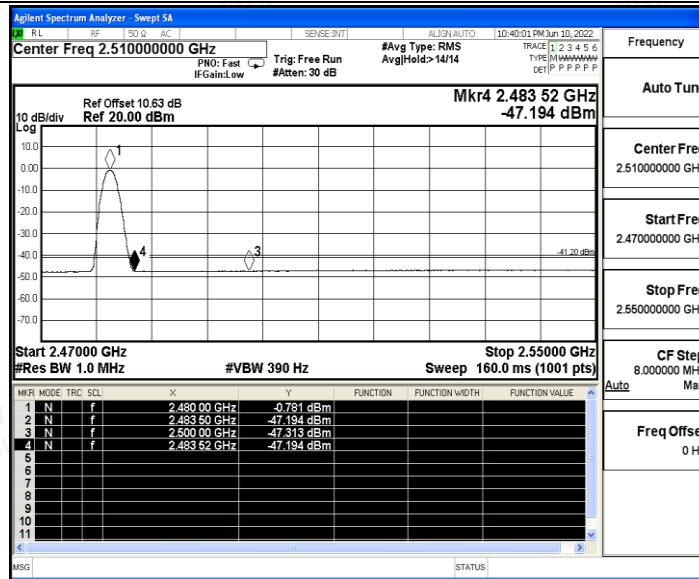


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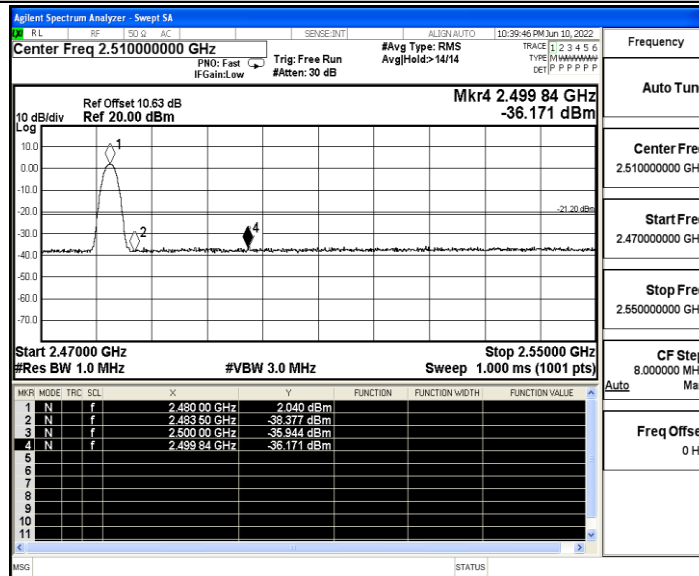
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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## 3DH5\_Ant\_High\_2480\_Peak



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