



## Appendix A

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

Product Name: Karaoke Microphone

Test Model: E2

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.5 ° C  |
| Relative Humidity: | 52.2%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Ling 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]  | Verdict |
|----------|---------|---------|---------------|----------|----------|---------|
| DH5      | Ant1    | 2402    | 0.942         | 2401.577 | 2402.519 | ---     |
|          |         | 2441    | 0.930         | 2440.577 | 2441.507 | ---     |
|          |         | 2480    | 0.948         | 2479.580 | 2480.528 | ---     |
| 2DH5     | Ant1    | 2402    | 1.347         | 2401.367 | 2402.714 | ---     |
|          |         | 2441    | 1.341         | 2440.370 | 2441.711 | ---     |
|          |         | 2480    | 1.329         | 2479.385 | 2480.714 | ---     |
| 3DH5     | Ant1    | 2402    | 1.323         | 2401.382 | 2402.705 | ---     |
|          |         | 2441    | 1.332         | 2440.379 | 2441.711 | ---     |
|          |         | 2480    | 1.347         | 2479.367 | 2480.714 | ---     |



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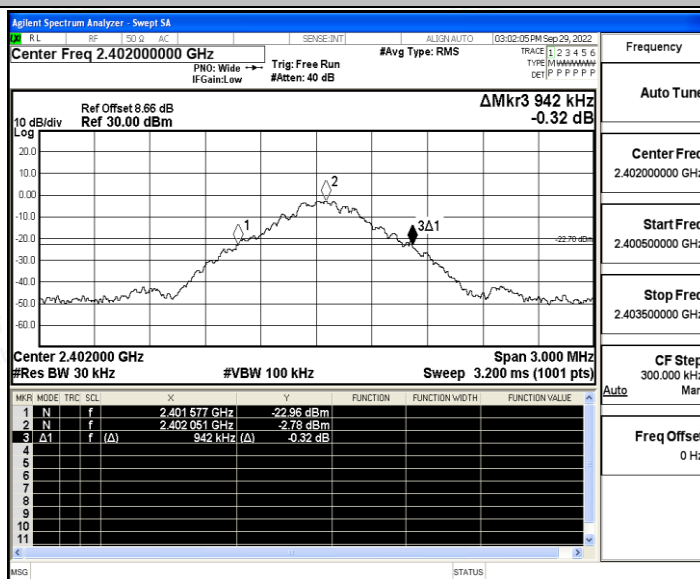
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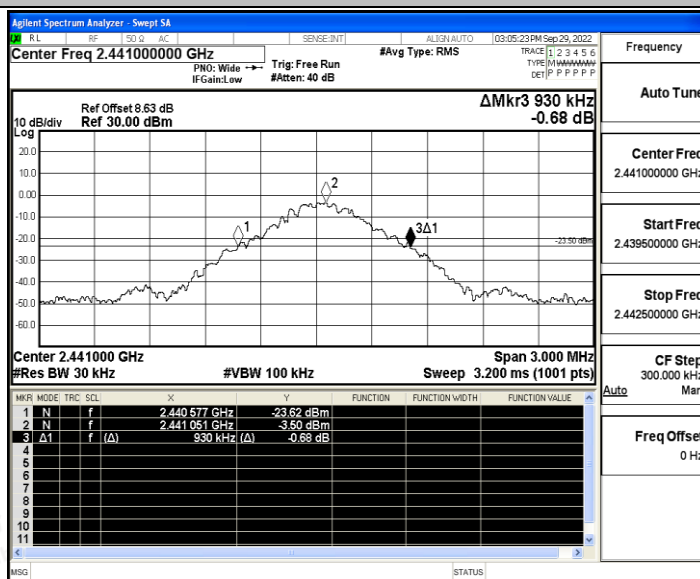
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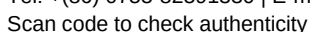
DH5 Ant1 2402

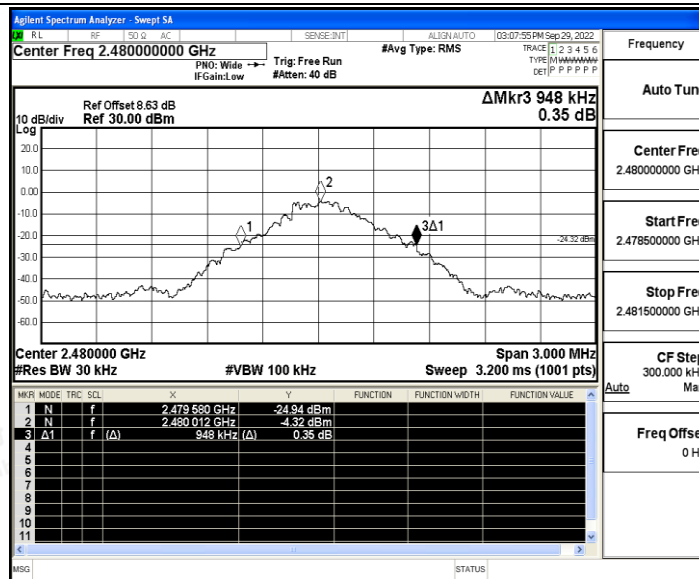


DH5 Ant1 2441

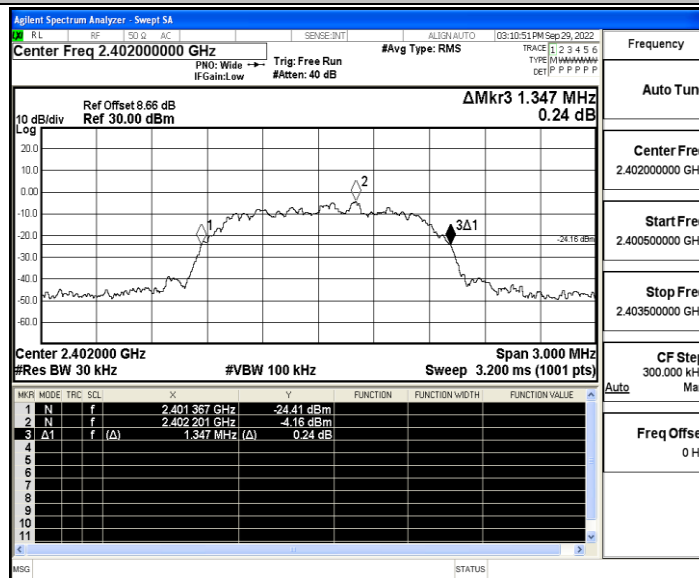


DH5 Ant1 2480





2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

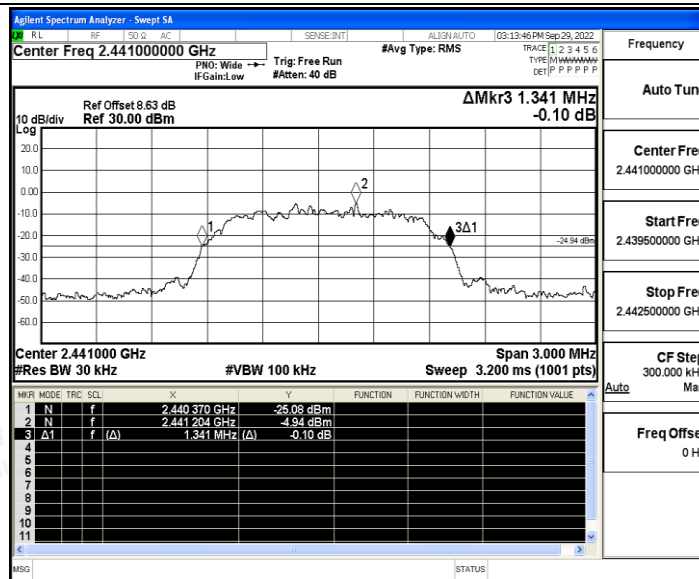


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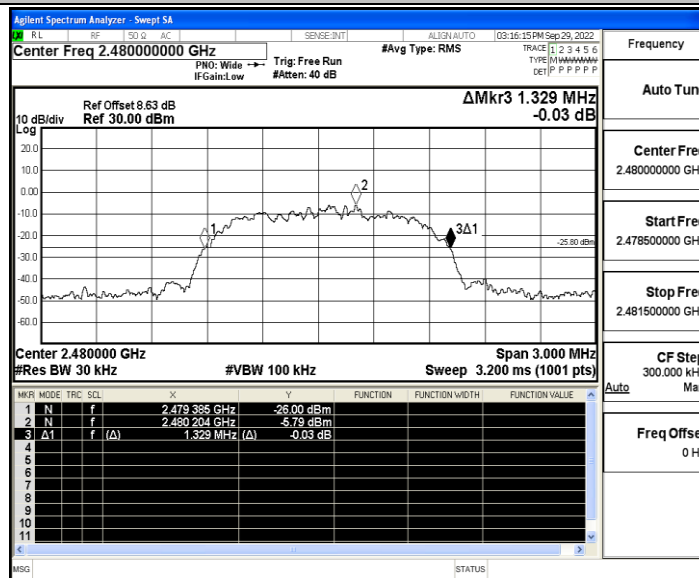
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2DH5\_Ant1\_2480



3DH5\_Ant1\_2402

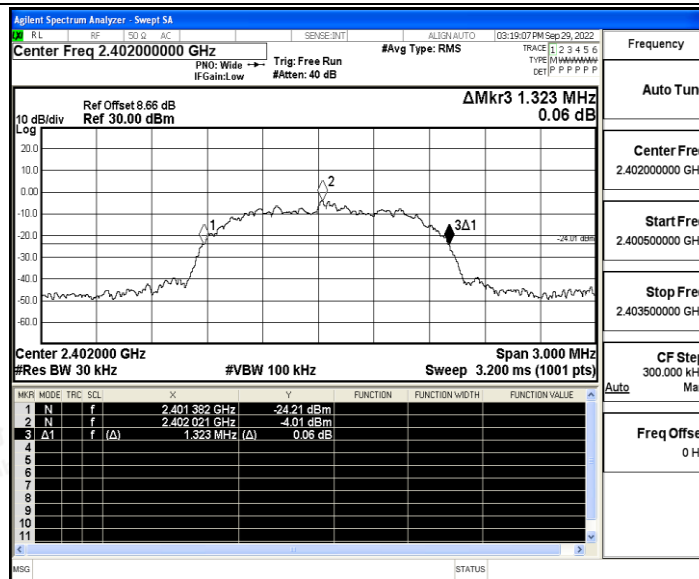


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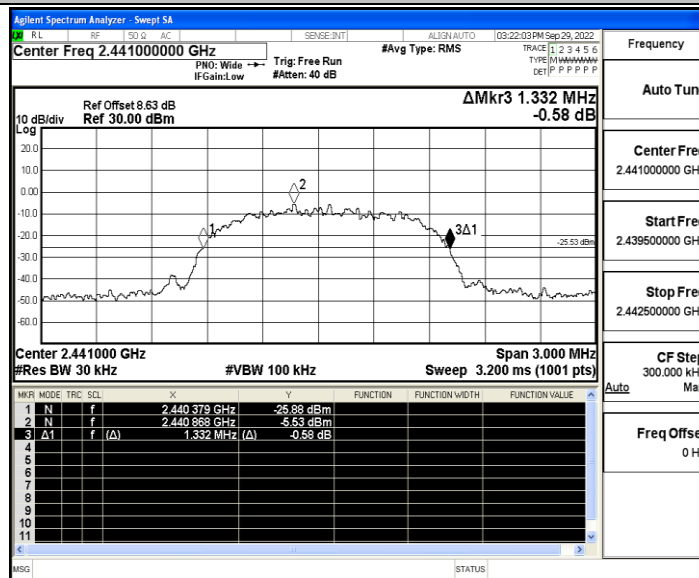
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3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

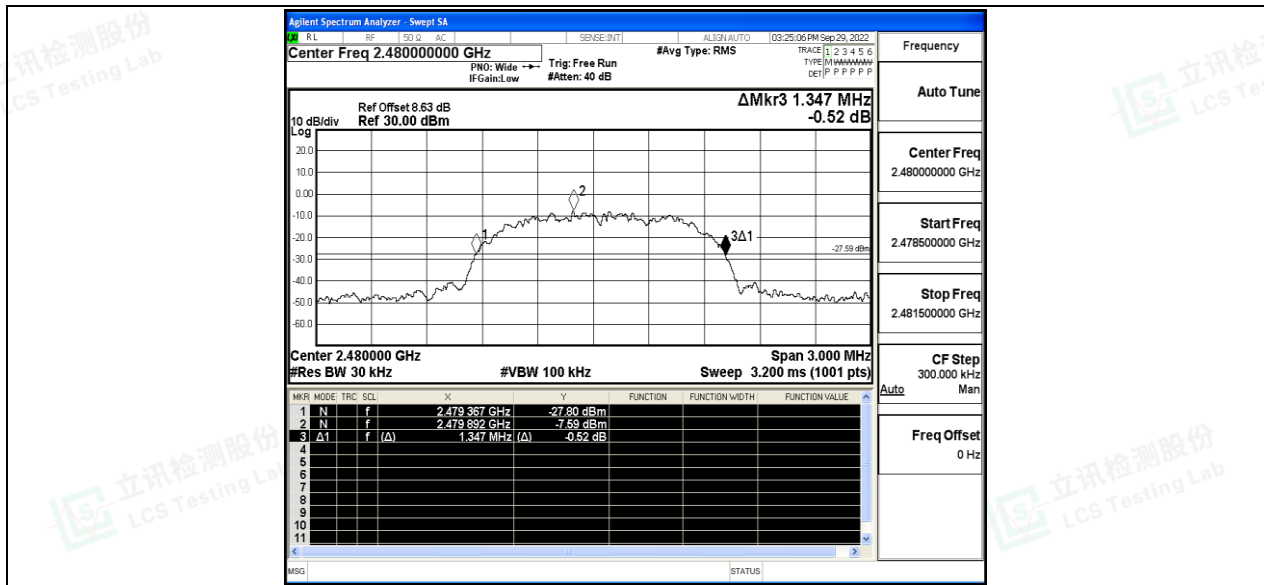


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## A.2 Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | 2402    | 0.04        | ≤20.97     | PASS    |
|          |         | 2441    | -0.67       | ≤20.97     | PASS    |
|          |         | 2480    | -1.46       | ≤20.97     | PASS    |
| 2DH5     | Ant1    | 2402    | 2.25        | ≤20.97     | PASS    |
|          |         | 2441    | 1.42        | ≤20.97     | PASS    |
|          |         | 2480    | 0.58        | ≤20.97     | PASS    |
| 3DH5     | Ant1    | 2402    | 2.79        | ≤20.97     | PASS    |
|          |         | 2441    | 1.51        | ≤20.97     | PASS    |
|          |         | 2480    | 0.42        | ≤20.97     | PASS    |



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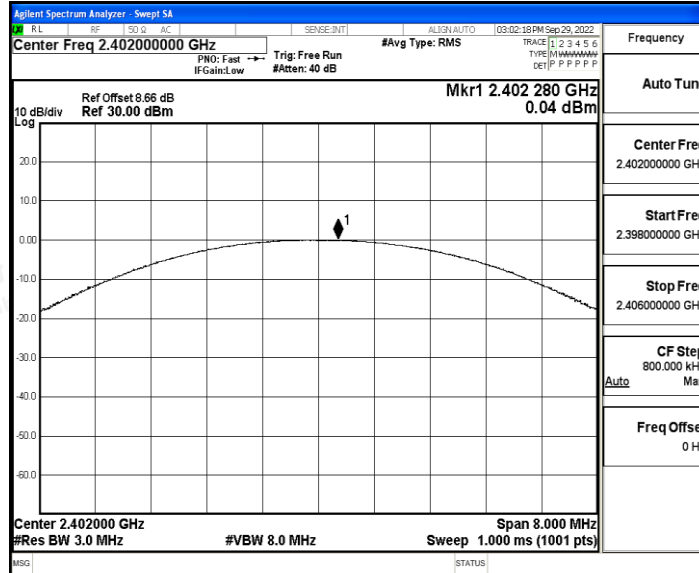
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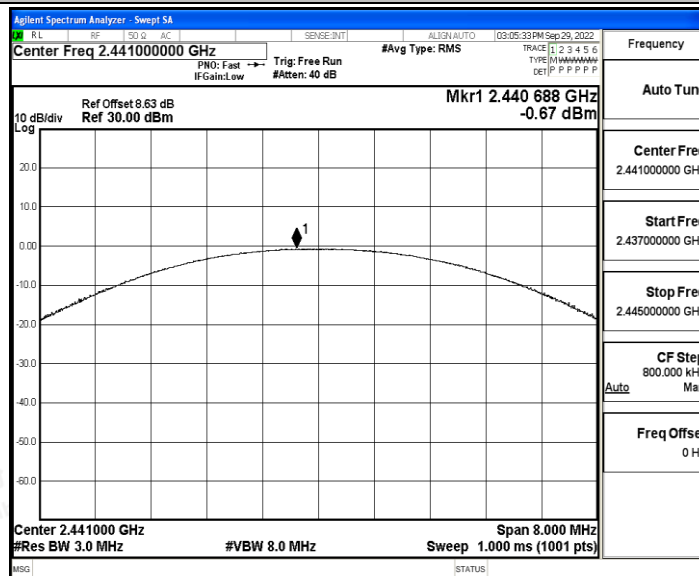


## Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480

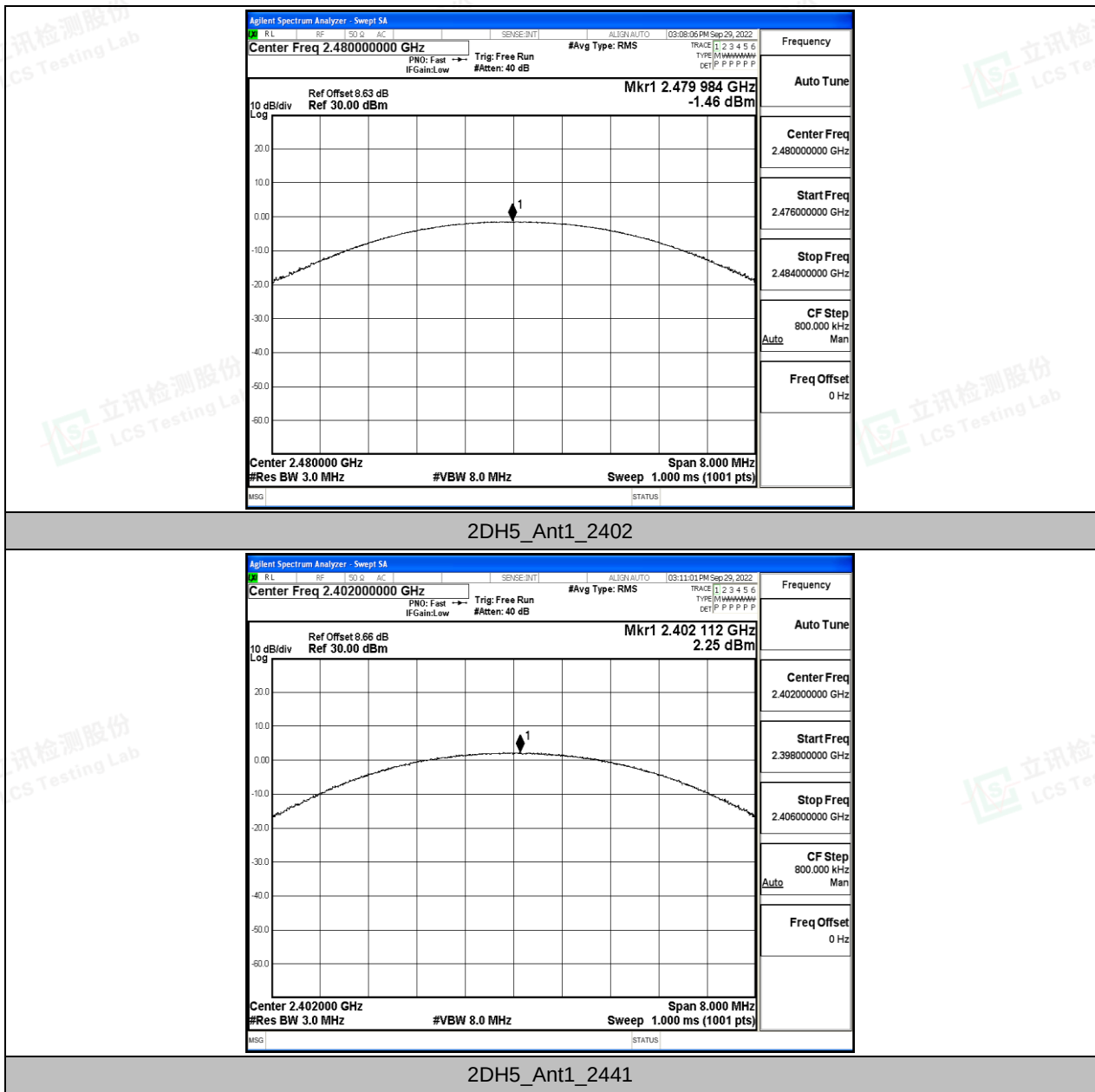


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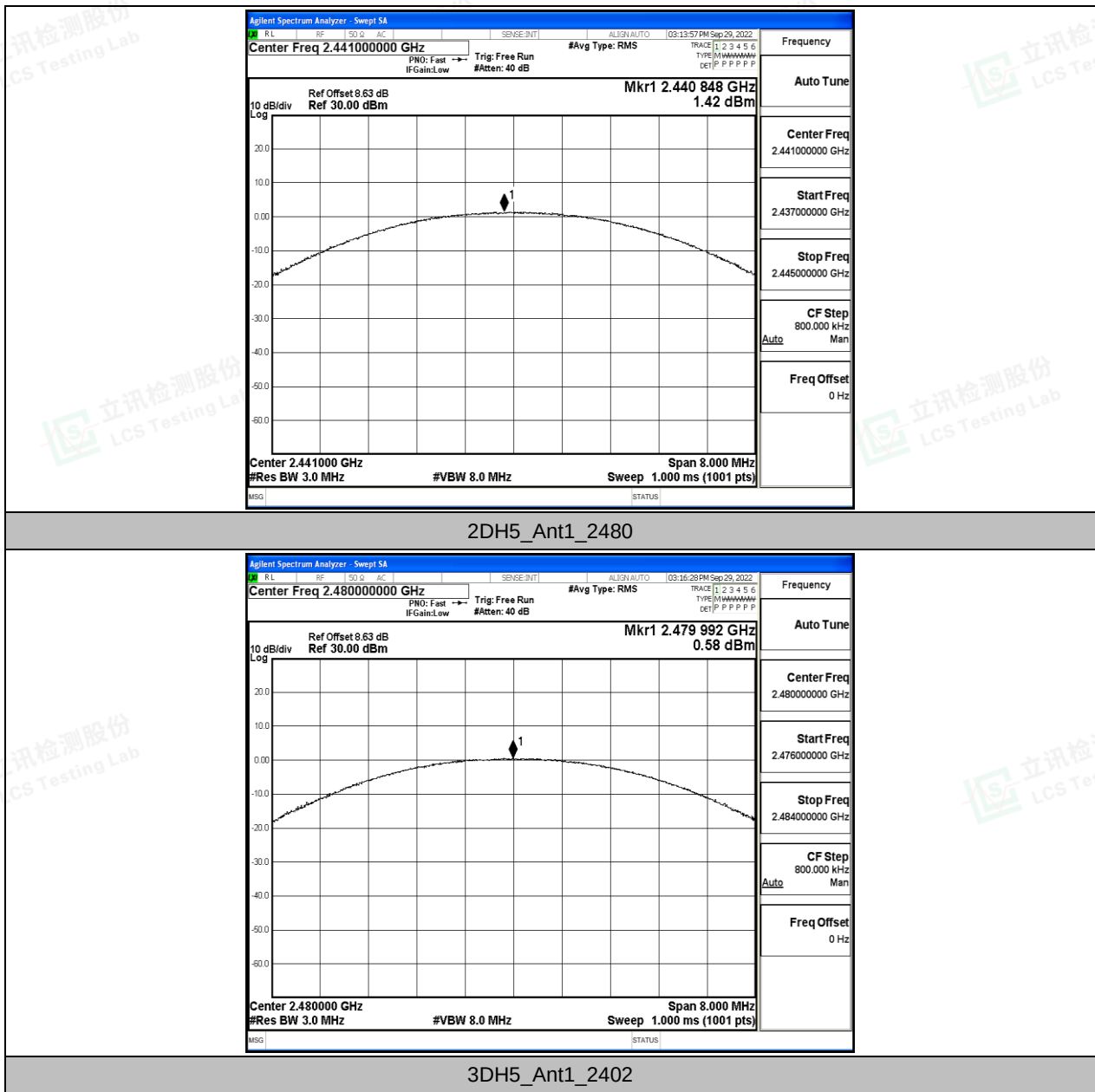


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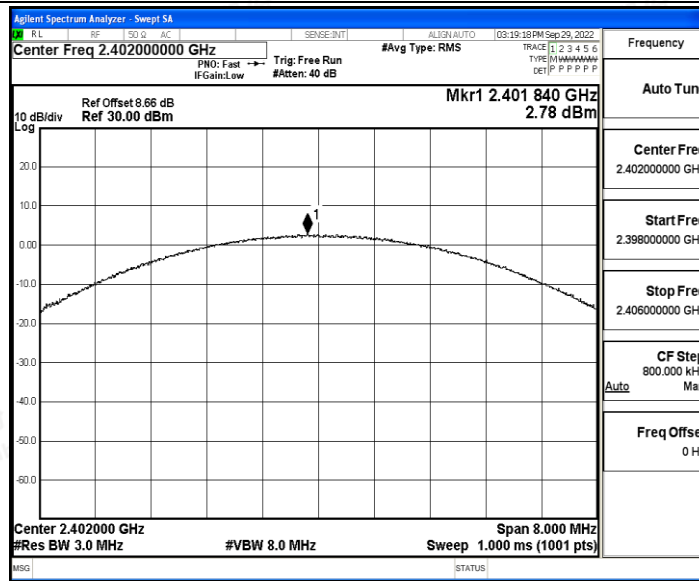


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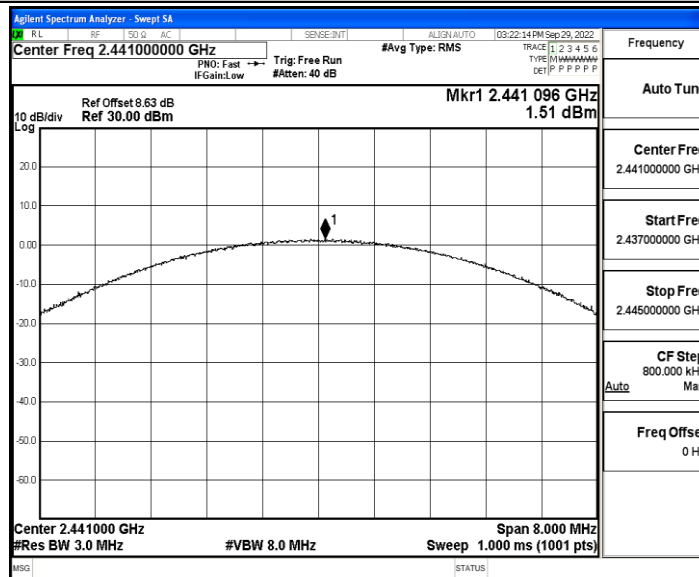
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3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

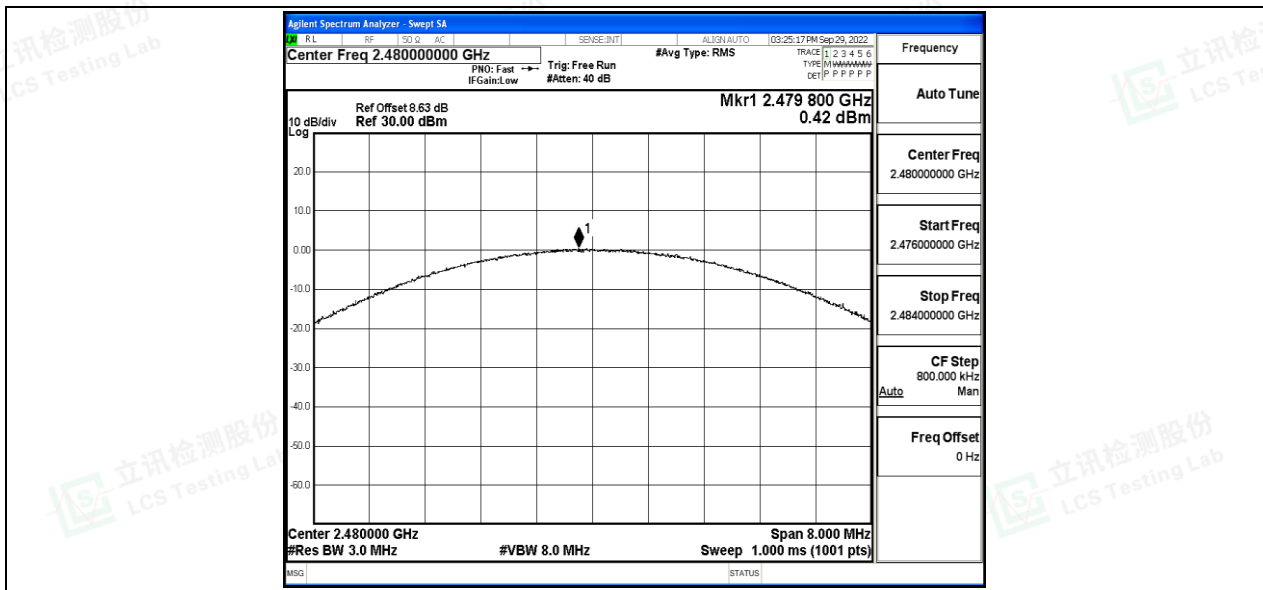


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## A.3 Carrier frequency separation

### Test Result

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|---------|-------------|--------------|---------|
| DH5      | Ant1    | Hop     | 1.106       | $\geq 0.632$ | PASS    |
| 2DH5     | Ant1    | Hop     | 0.956       | $\geq 0.898$ | PASS    |
| 3DH5     | Ant1    | Hop     | 1.106       | $\geq 0.898$ | PASS    |



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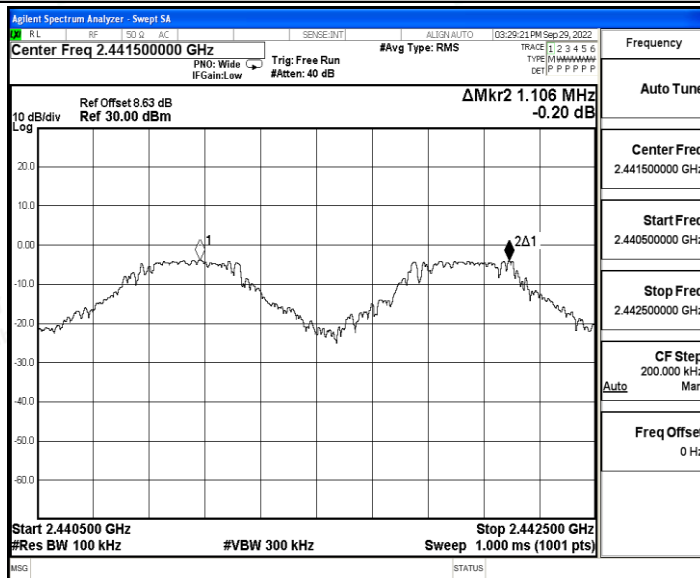
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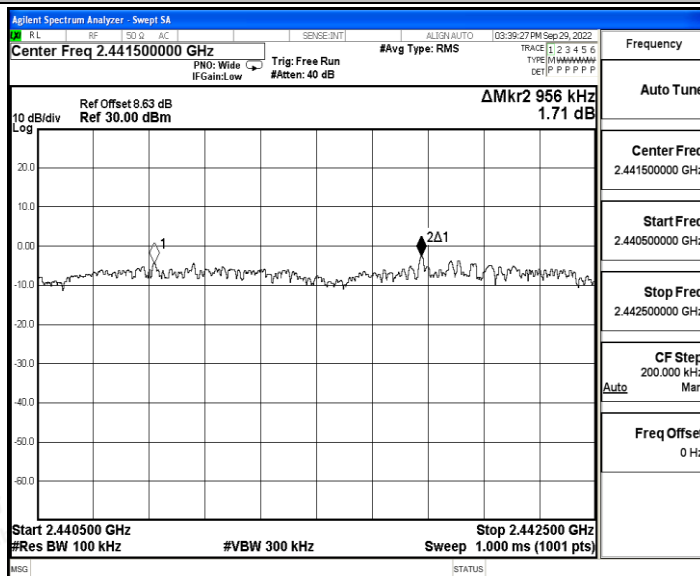


## Test Graphs

DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop



3DH5\_Ant1\_Hop

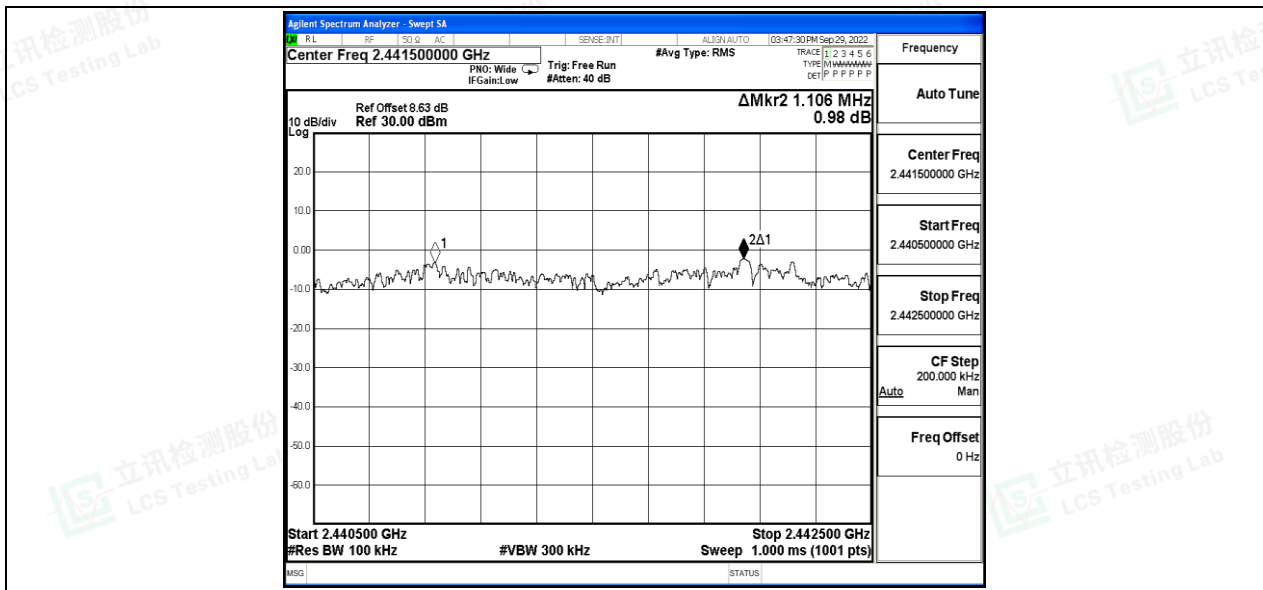


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## A.4 Time of occupancy

### Test Result

| TestMode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant1    | Hop     | 2.90               | 106.67             | 0.309     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop     | 2.90               | 106.67             | 0.309     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop     | 2.91               | 106.67             | 0.31      | ≤0.4     | PASS    |



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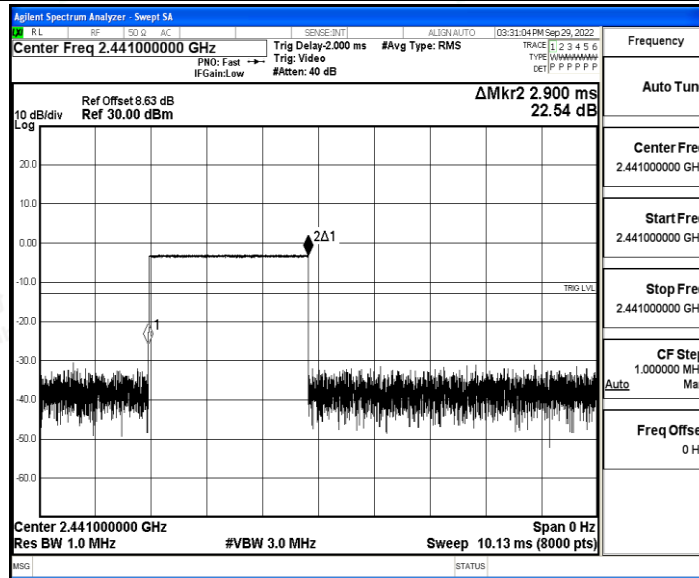
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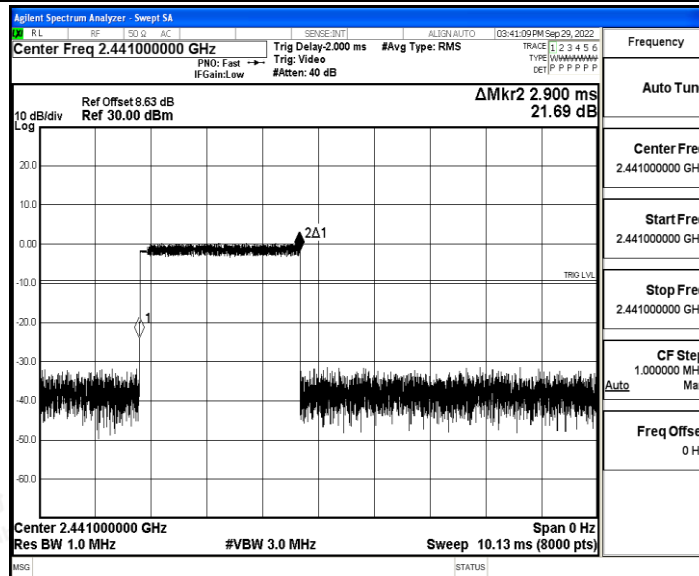


## Test Graphs

DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop



3DH5\_Ant1\_Hop

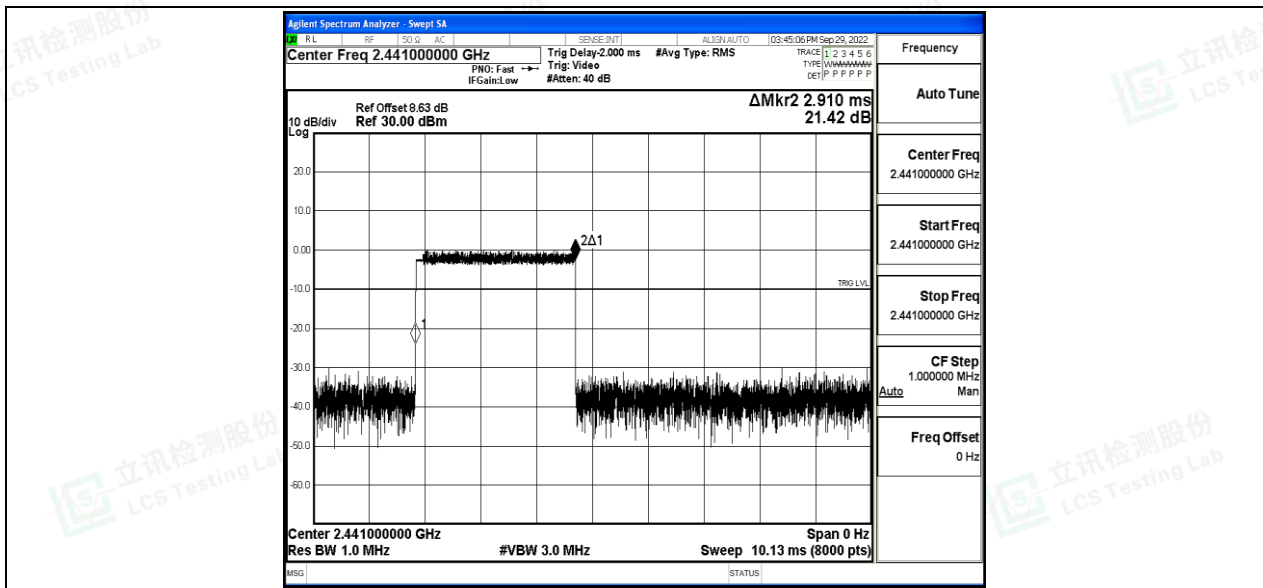


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## A.5 Number of hopping channels

### Test Result

| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 2DH5     | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 3DH5     | Ant1    | Hop     | 79          | ≥15        | PASS    |



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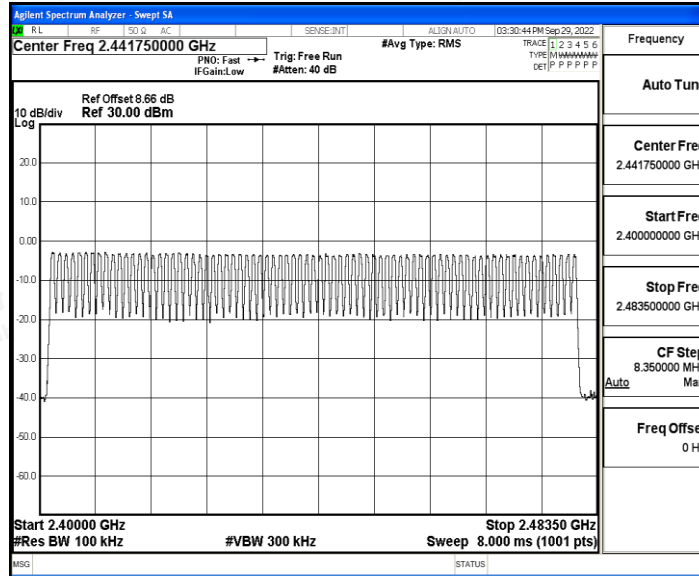
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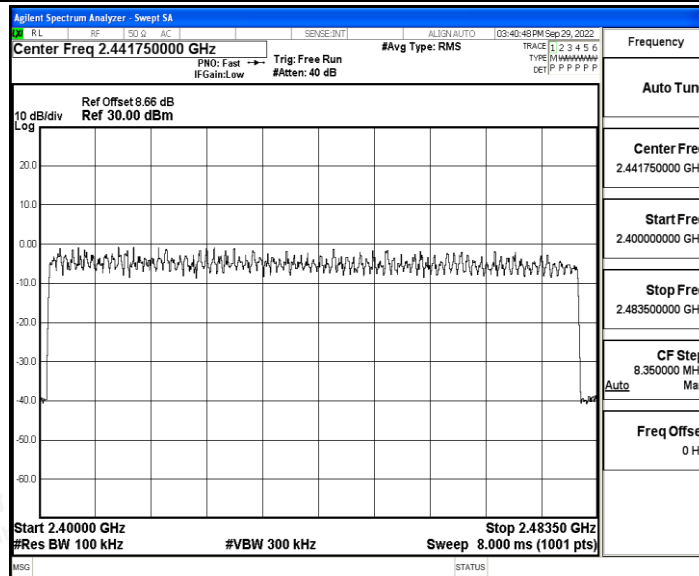


## Test Graphs

DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop



3DH5\_Ant1\_Hop

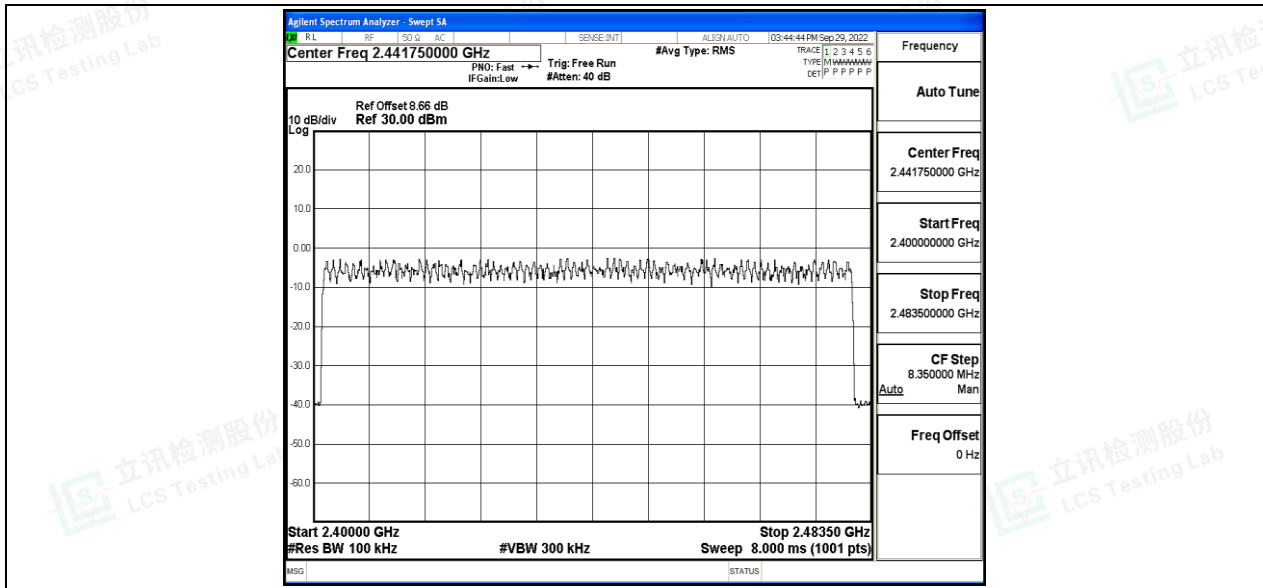


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## A.6 Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel  | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|----------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | Low    | 2402     | -1.13             | -54.98          | $\leq -21.13$  | PASS    |
|          |         | High   | 2480     | -2.23             | -58.93          | $\leq -22.23$  | PASS    |
|          |         | Low    | Hop_2402 | -3.53             | -54.16          | $\leq -23.53$  | PASS    |
|          |         | High   | Hop_2480 | -3.18             | -46.27          | $\leq -23.18$  | PASS    |
| 2DH5     | Ant1    | Low    | 2402     | -3.93             | -57.64          | $\leq -23.93$  | PASS    |
|          |         | High   | 2480     | -5.64             | -58.52          | $\leq -25.64$  | PASS    |
|          |         | Low    | Hop_2402 | -3.37             | -59.18          | $\leq -23.37$  | PASS    |
|          |         | High   | Hop_2480 | -5.95             | -57.12          | $\leq -25.95$  | PASS    |
| 3DH5     | Ant1    | Low    | 2402     | -0.24             | -59.49          | $\leq -20.24$  | PASS    |
|          |         | High   | 2480     | -6.17             | -57.01          | $\leq -26.17$  | PASS    |
|          |         | Low    | Hop_2402 | -4.87             | -58.96          | $\leq -24.87$  | PASS    |
|          |         | High   | Hop_2480 | -2.81             | -57.98          | $\leq -22.81$  | PASS    |



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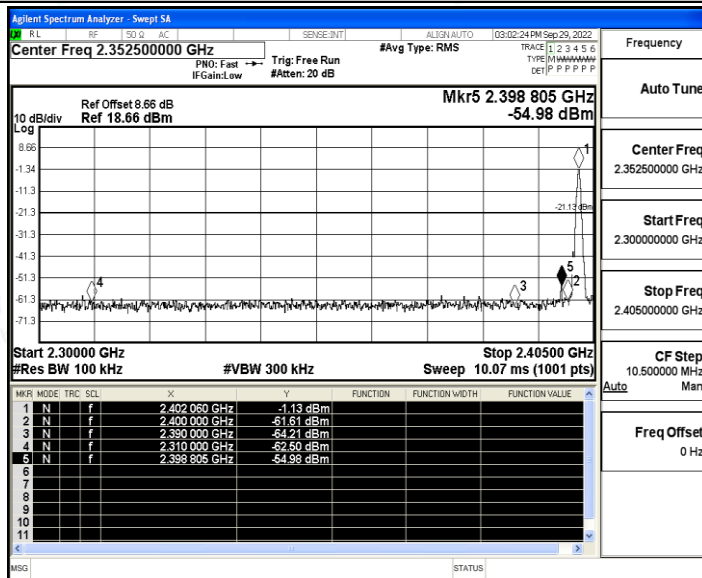
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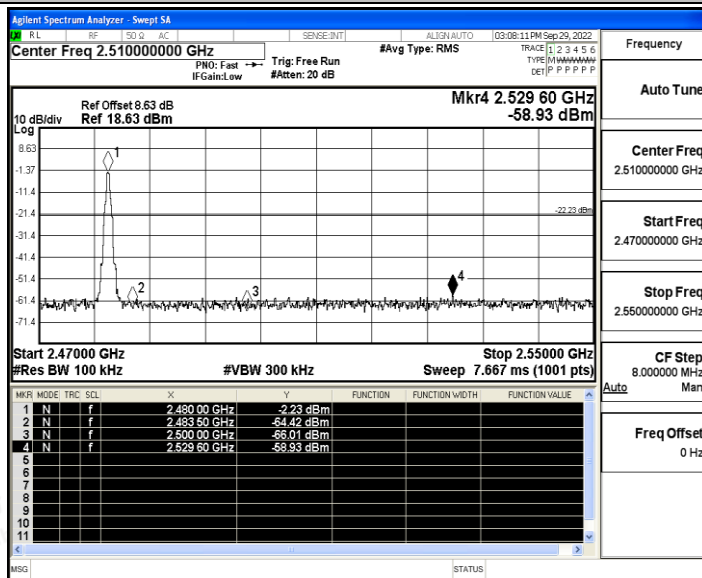


## Test Graphs

DH5\_Ant1\_Low\_2402



DH5\_Ant1\_High\_2480



DH5\_Ant1\_Low\_Hop\_2402



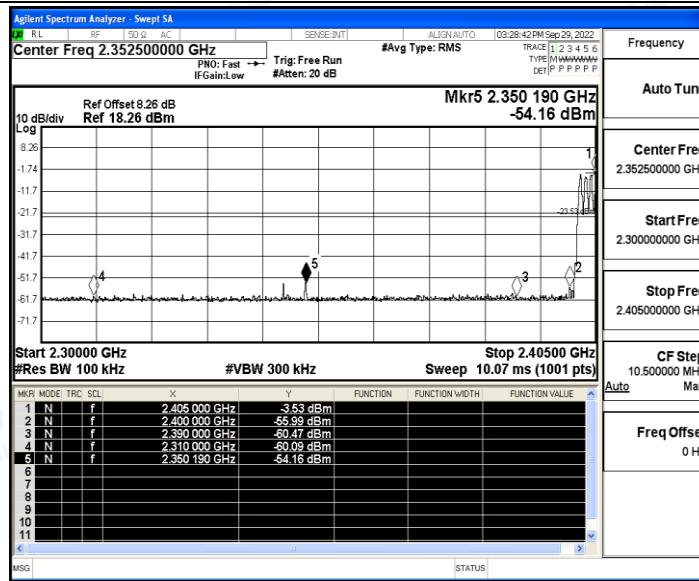
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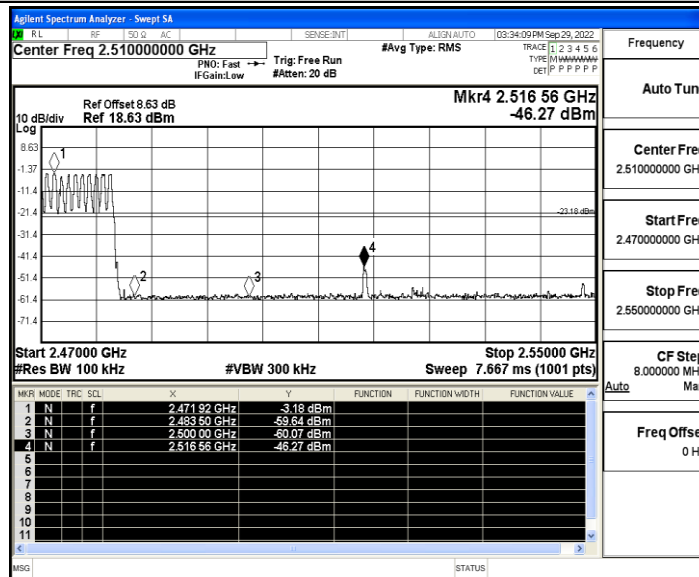
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DH5\_Ant1\_High\_Hop\_2480



2DH5\_Ant1\_Low\_2402

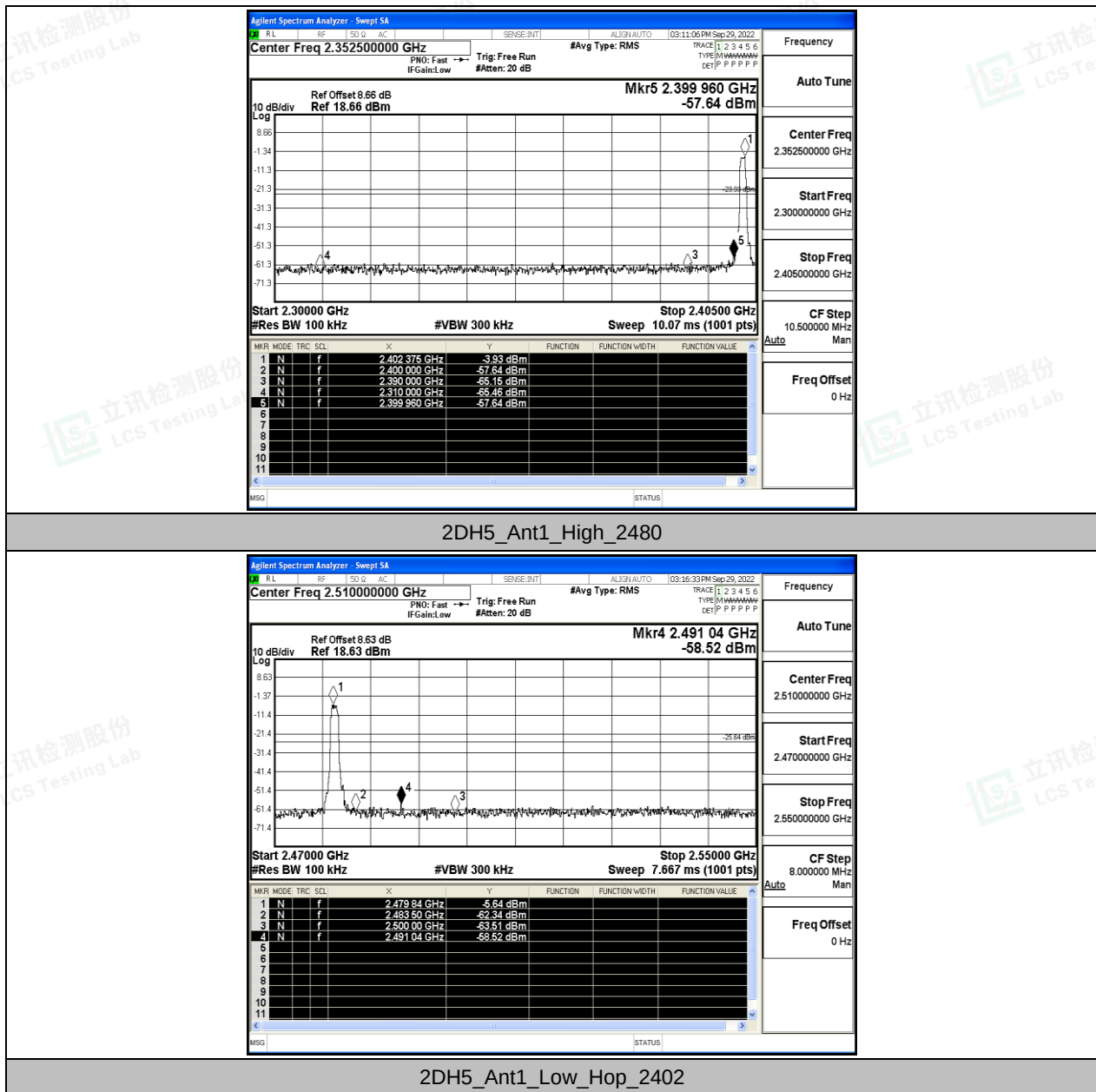


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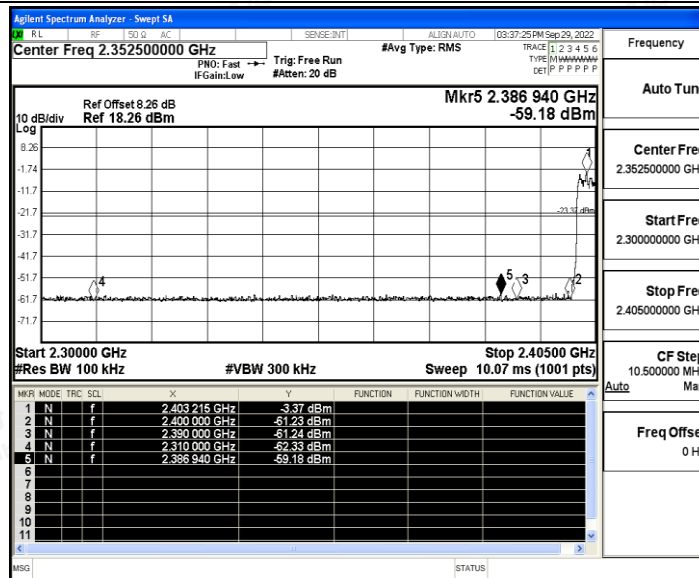


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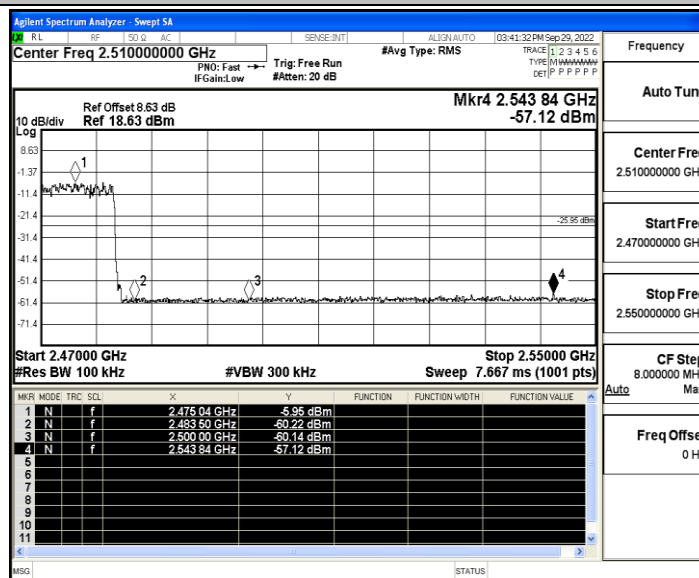
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2DH5\_Ant1\_High\_Hop\_2480



3DH5\_Ant1\_Low\_2402

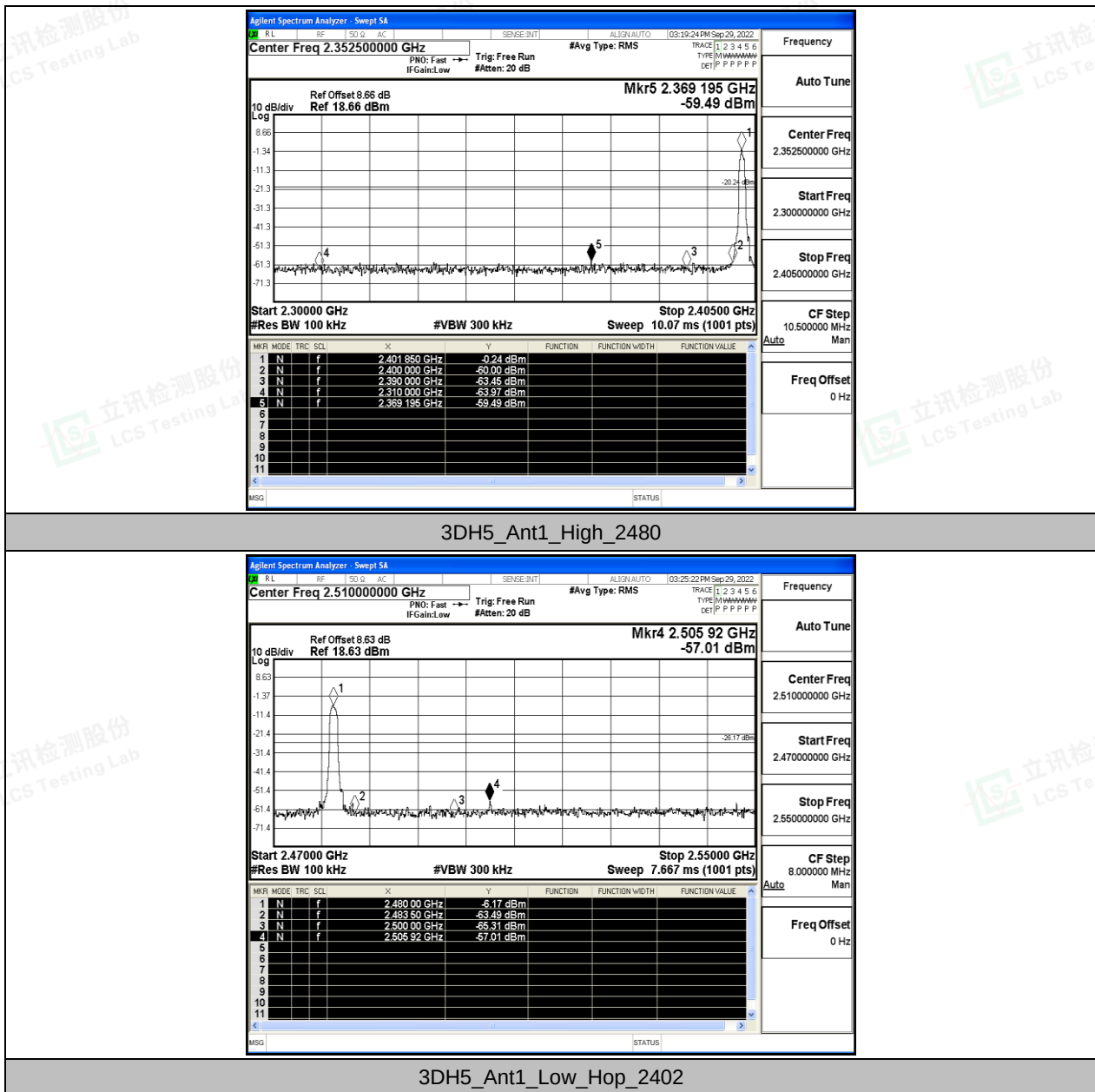


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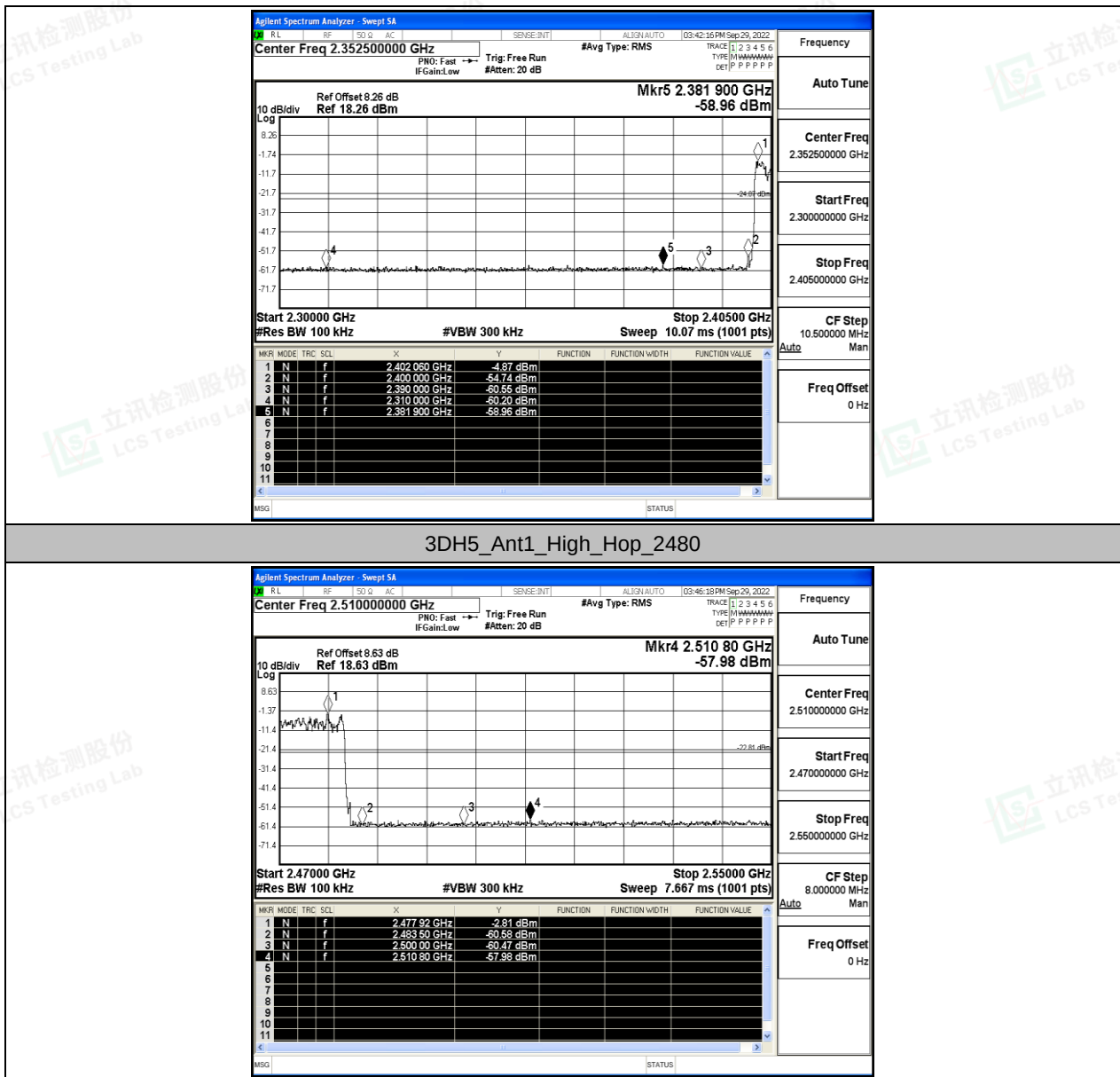


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## A.7 Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | 2402    | Reference          | -1.07             | -1.07           | ---            | PASS    |
|          |         |         | 30~1000            | -1.07             | -60.68          | $\leq -21.07$  | PASS    |
|          |         |         | 1000~26500         | -1.07             | -45.46          | $\leq -21.07$  | PASS    |
|          |         | 2441    | Reference          | -1.71             | -1.71           | ---            | PASS    |
|          |         |         | 30~1000            | -1.71             | -57.53          | $\leq -21.71$  | PASS    |
|          |         |         | 1000~26500         | -1.71             | -46.09          | $\leq -21.71$  | PASS    |
|          |         | 2480    | Reference          | -2.71             | -2.71           | ---            | PASS    |
|          |         |         | 30~1000            | -2.71             | -59.38          | $\leq -22.71$  | PASS    |
|          |         |         | 1000~26500         | -2.71             | -45.81          | $\leq -22.71$  | PASS    |
| 2DH5     | Ant1    | 2402    | Reference          | -2.42             | -2.42           | ---            | PASS    |
|          |         |         | 30~1000            | -2.42             | -57.67          | $\leq -22.42$  | PASS    |
|          |         |         | 1000~26500         | -2.42             | -46.23          | $\leq -22.42$  | PASS    |
|          |         | 2441    | Reference          | -3.67             | -3.67           | ---            | PASS    |
|          |         |         | 30~1000            | -3.67             | -60.54          | $\leq -23.67$  | PASS    |
|          |         |         | 1000~26500         | -3.67             | -46.01          | $\leq -23.67$  | PASS    |
|          |         | 2480    | Reference          | -5.15             | -5.15           | ---            | PASS    |
|          |         |         | 30~1000            | -5.15             | -26.26          | $\leq -25.15$  | PASS    |
|          |         |         | 1000~26500         | -5.15             | -45.38          | $\leq -25.15$  | PASS    |
| 3DH5     | Ant1    | 2402    | Reference          | -1.45             | -1.45           | ---            | PASS    |
|          |         |         | 30~1000            | -1.45             | -39.38          | $\leq -21.45$  | PASS    |
|          |         |         | 1000~26500         | -1.45             | -45.71          | $\leq -21.45$  | PASS    |
|          |         | 2441    | Reference          | -1.79             | -1.79           | ---            | PASS    |
|          |         |         | 30~1000            | -1.79             | -60.41          | $\leq -21.79$  | PASS    |
|          |         |         | 1000~26500         | -1.79             | -44.5           | $\leq -21.79$  | PASS    |
|          |         | 2480    | Reference          | -5.17             | -5.17           | ---            | PASS    |
|          |         |         | 30~1000            | -5.17             | -59.39          | $\leq -25.17$  | PASS    |
|          |         |         | 1000~26500         | -5.17             | -46.1           | $\leq -25.17$  | PASS    |



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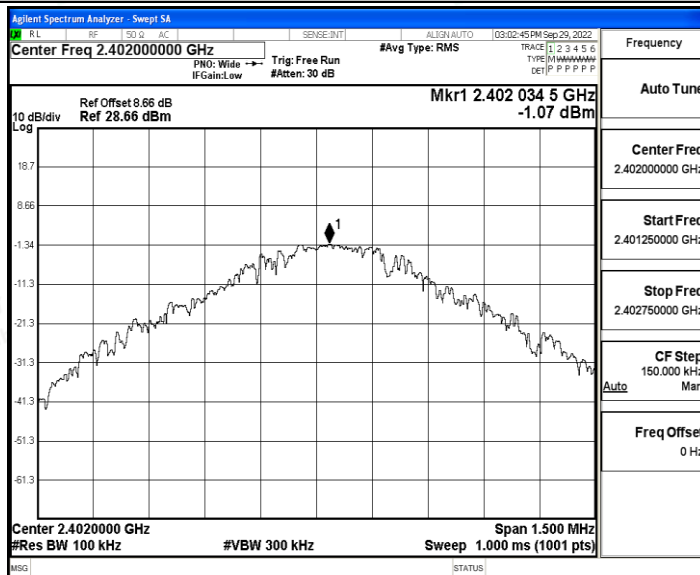
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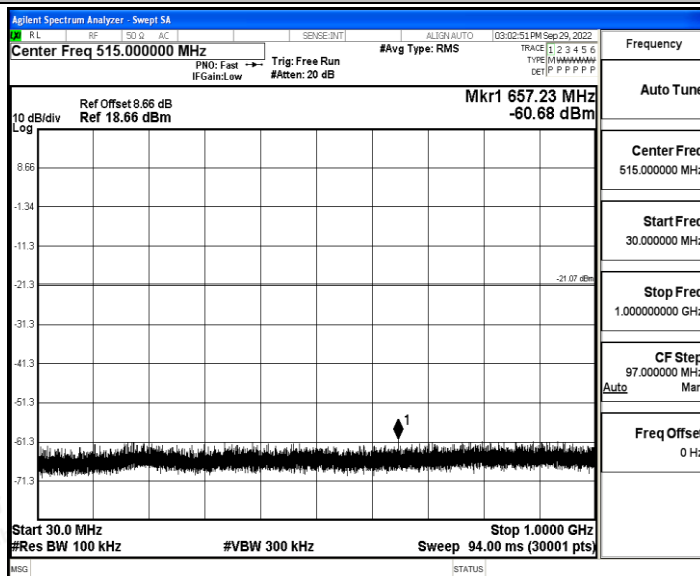


## Test Graphs

DH5\_Ant1\_2402\_0~Reference



DH5\_Ant1\_2402\_30~1000



DH5\_Ant1\_2402\_1000~26500



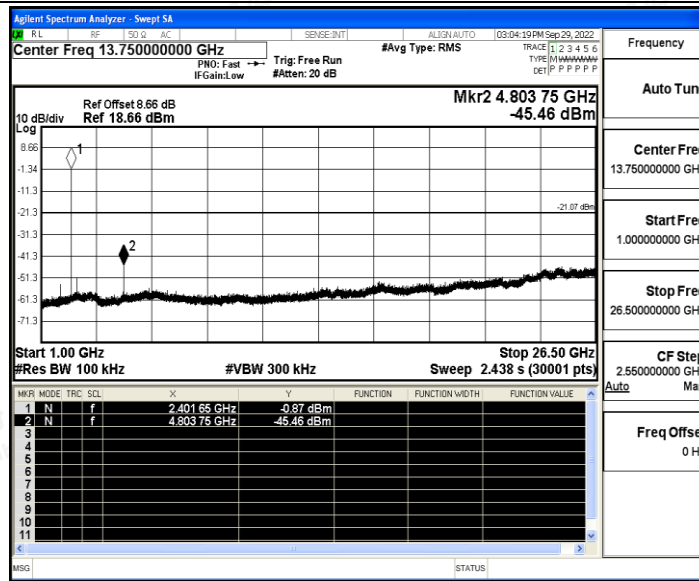
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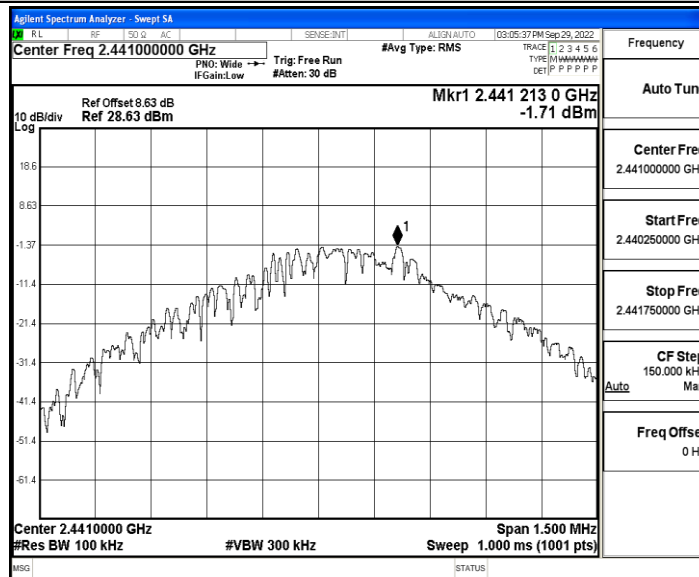
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DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



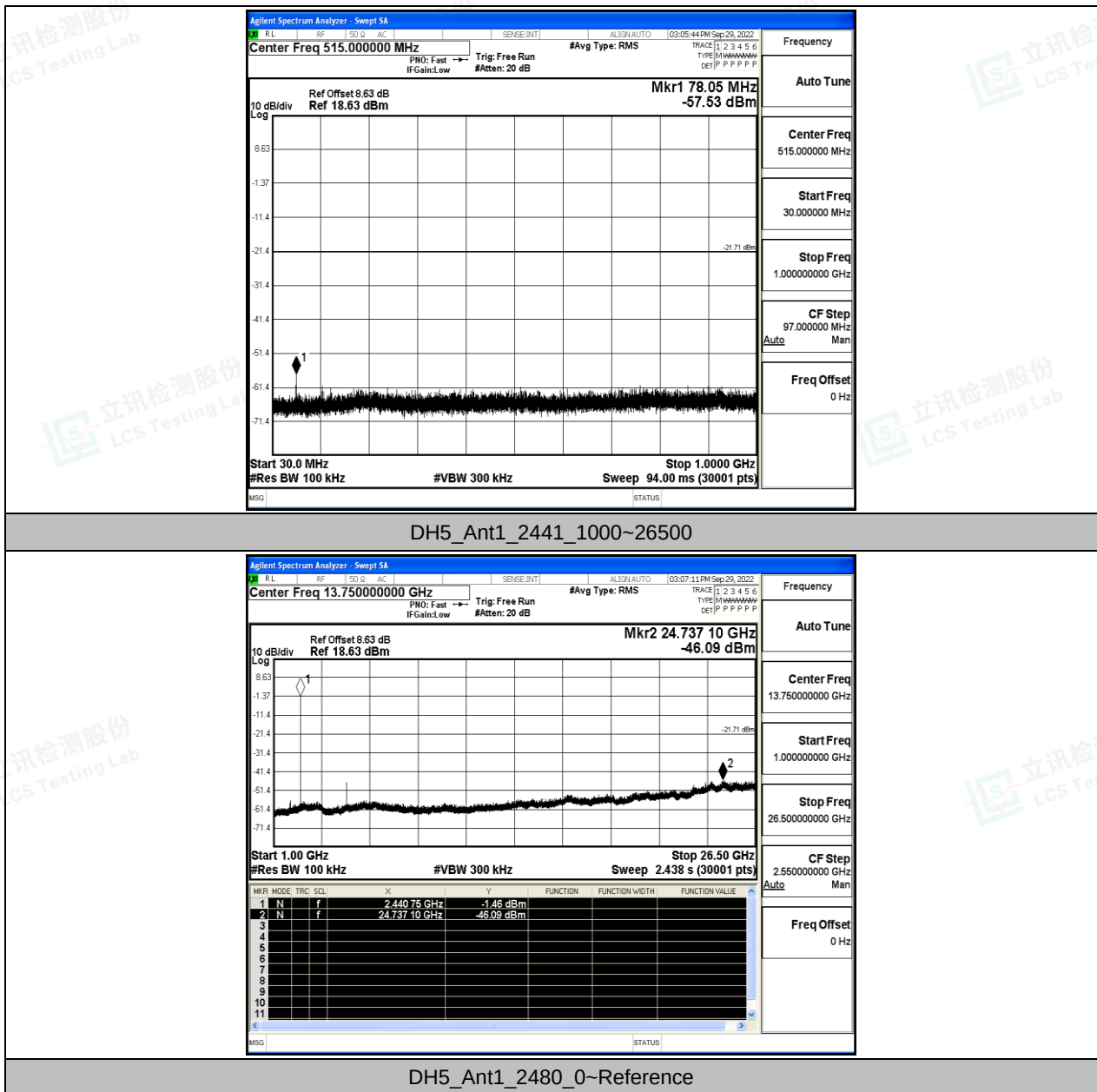
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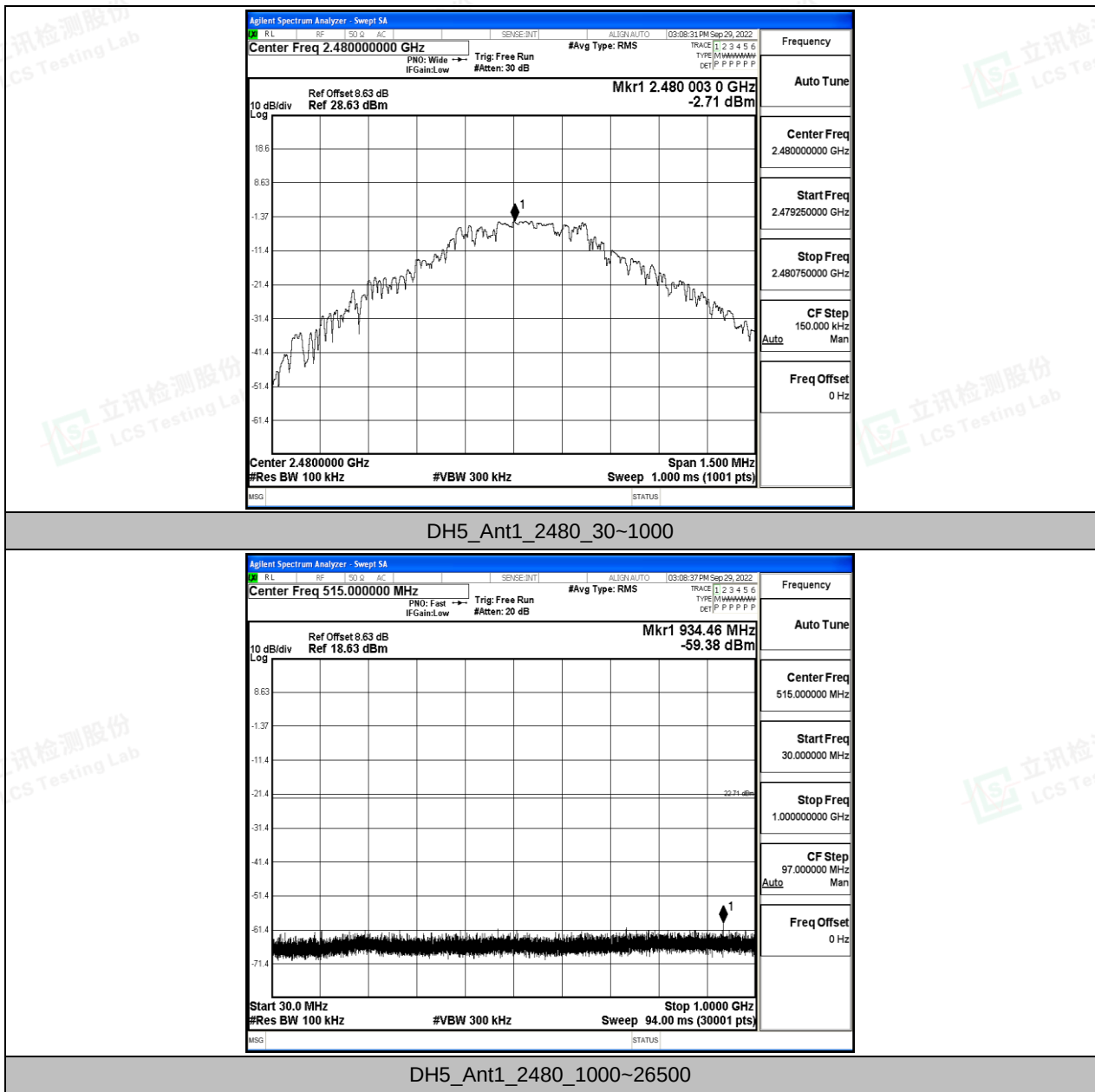


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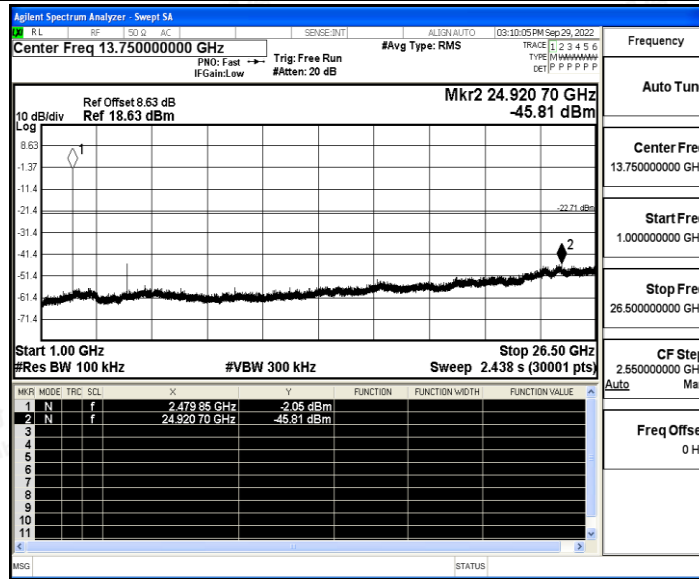


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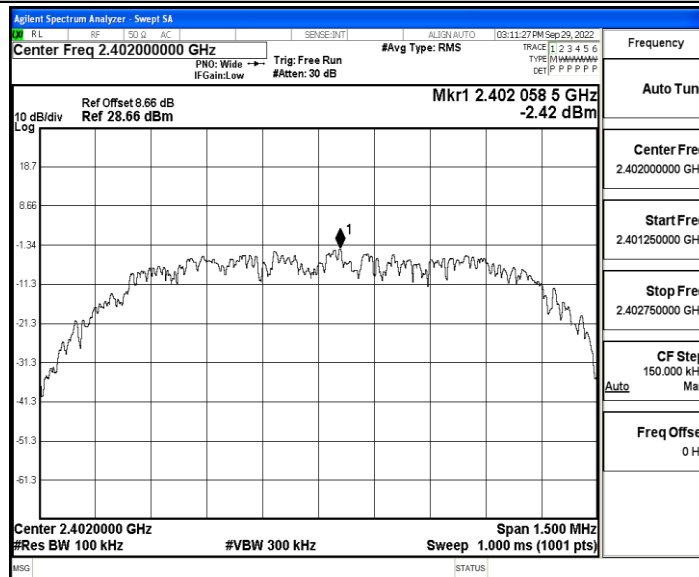
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2DH5\_Ant1\_2402\_0~Reference



2DH5\_Ant1\_2402\_30~1000

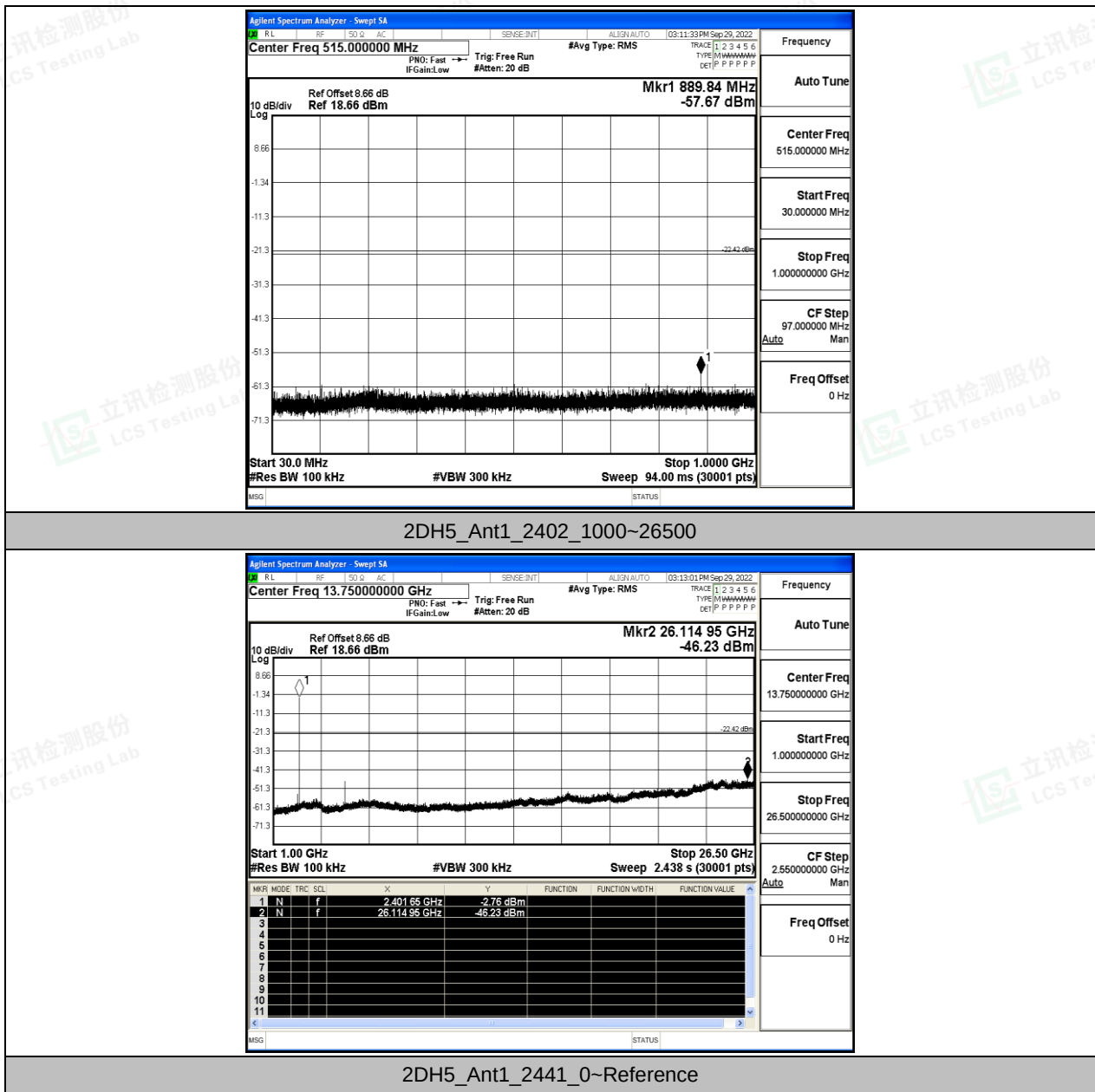


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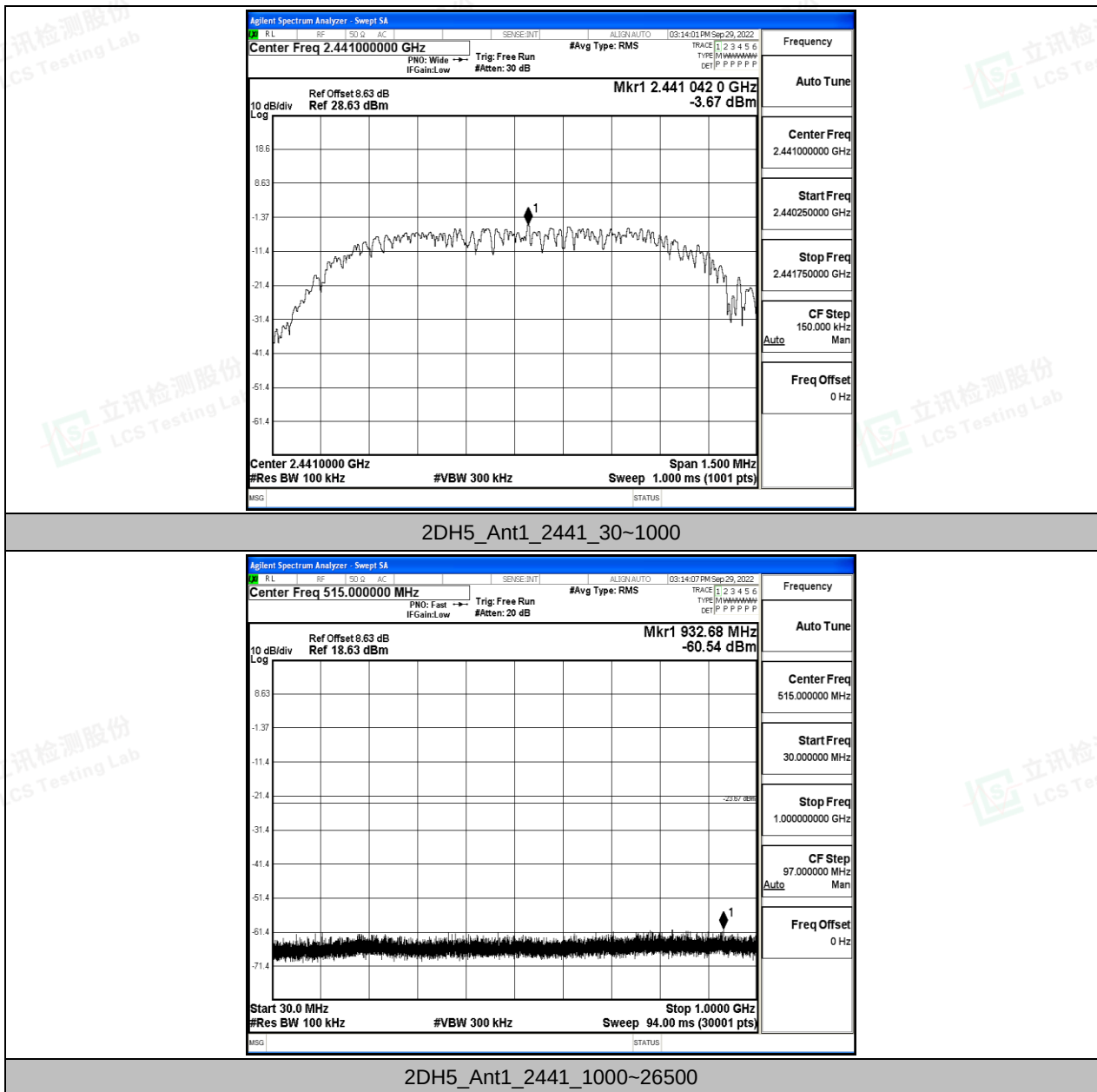


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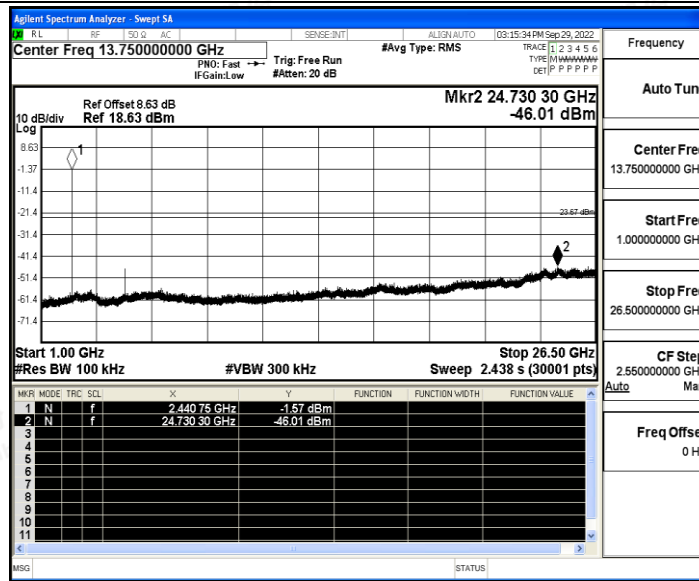


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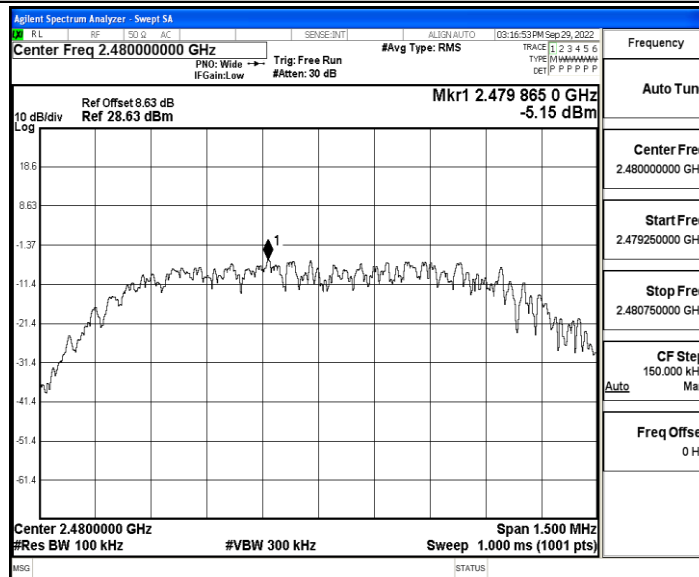
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2DH5\_Ant1\_2480\_0~Reference



2DH5\_Ant1\_2480\_30~1000

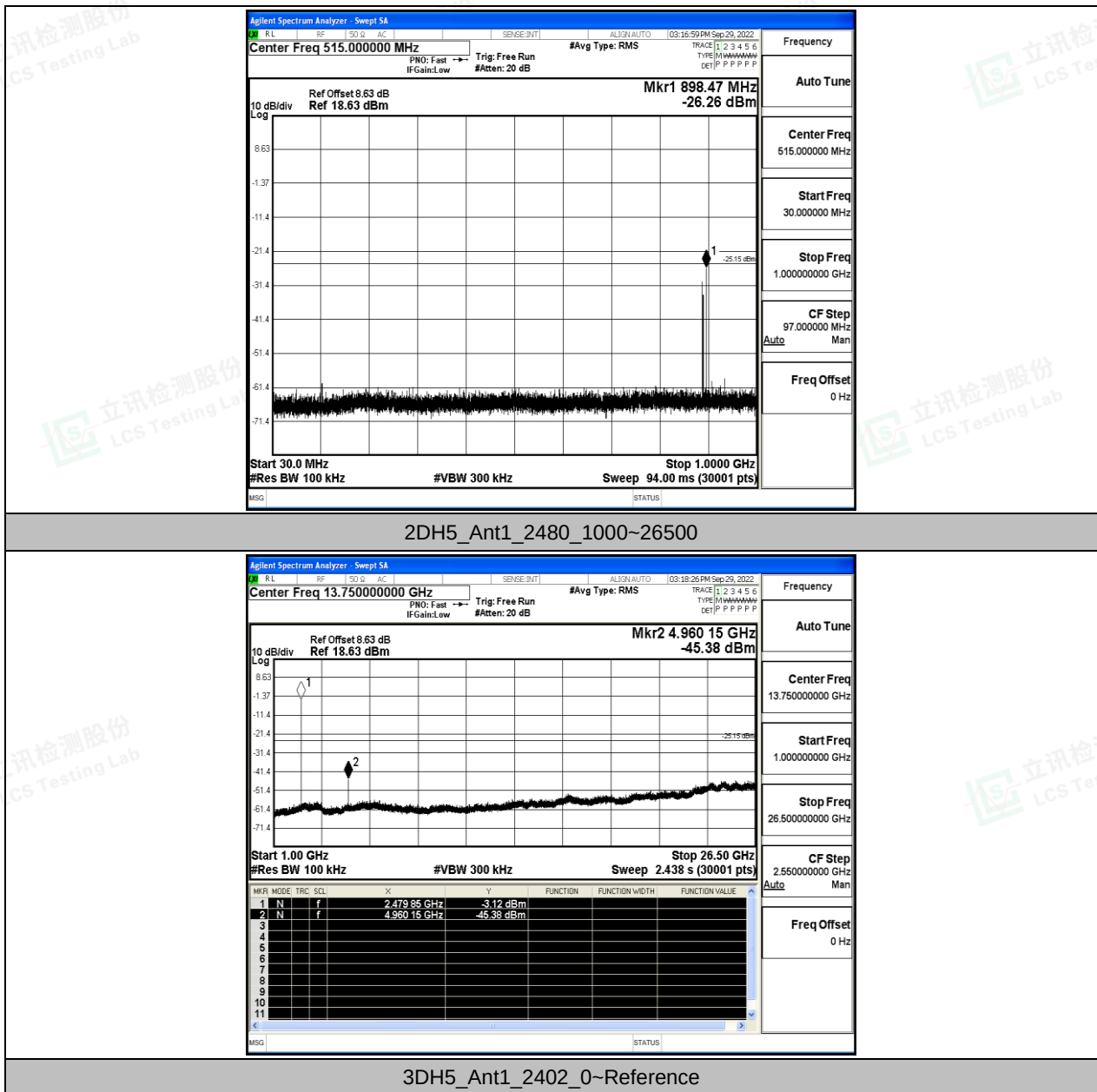


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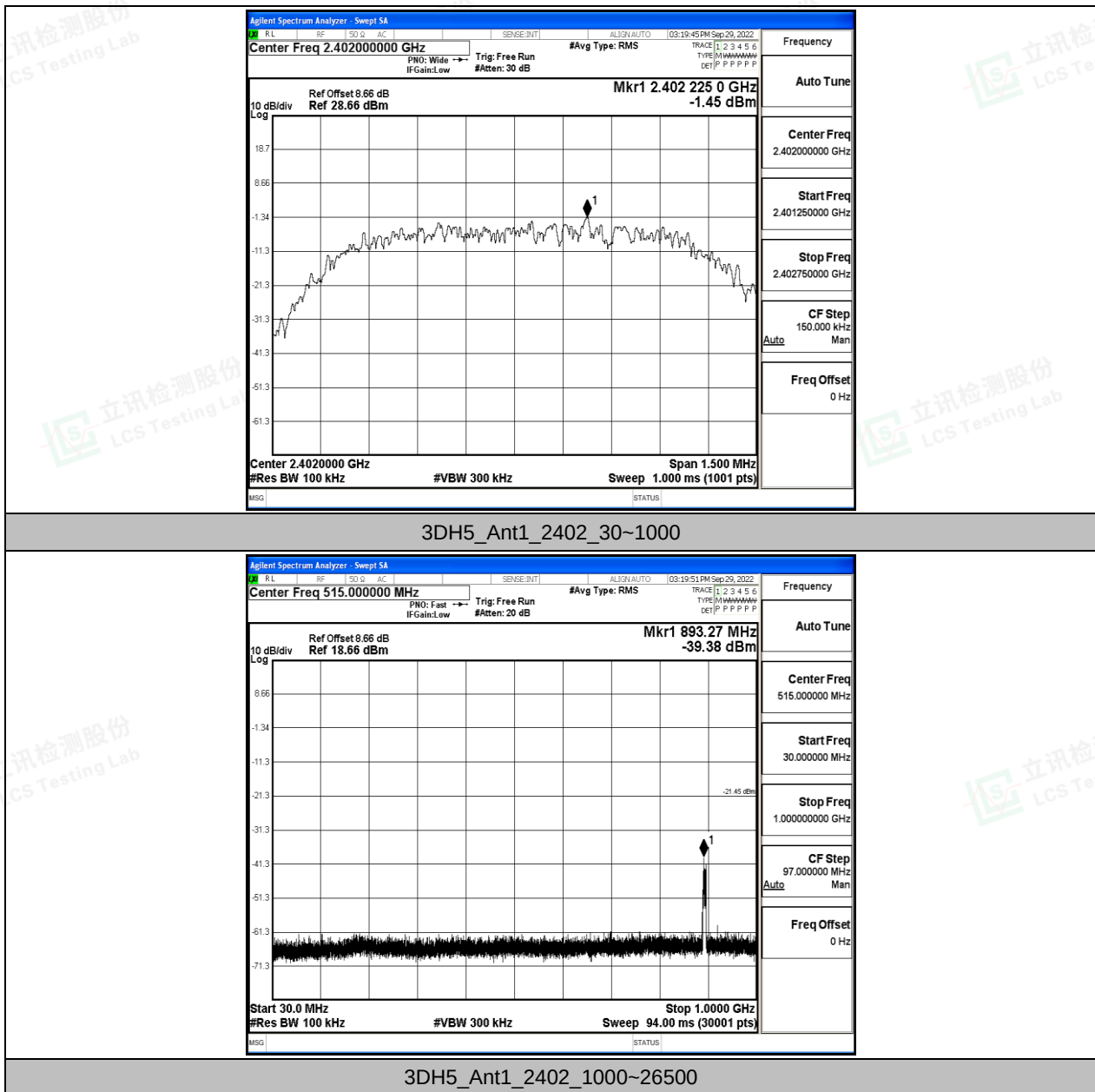


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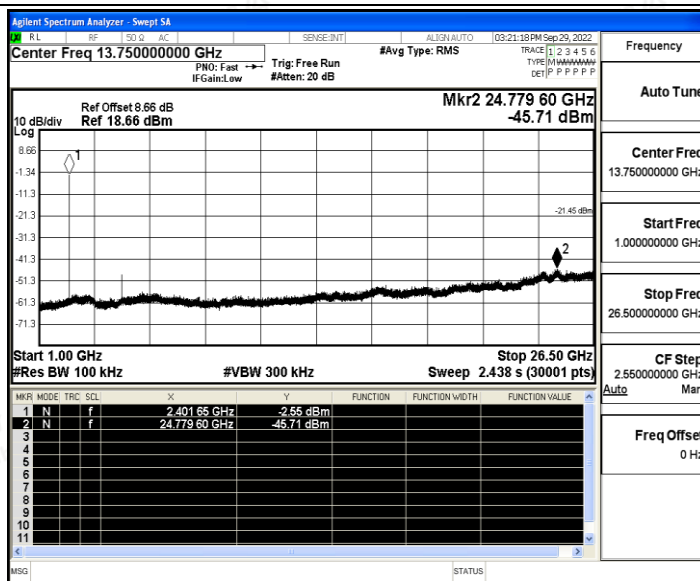
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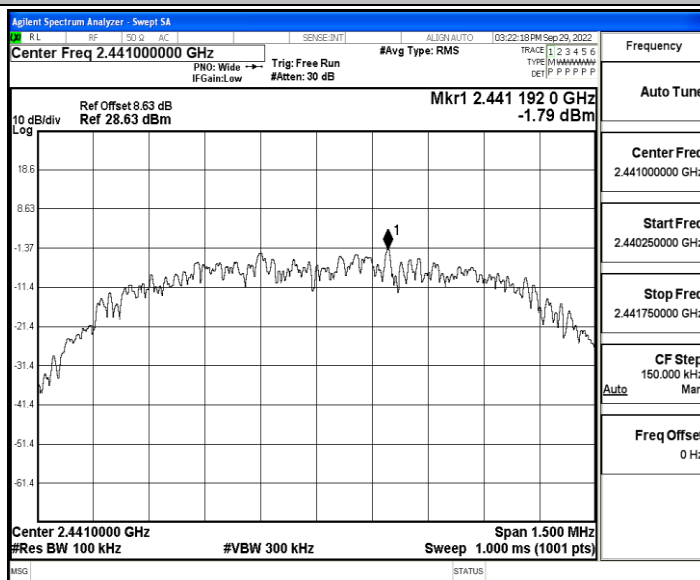
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3DH5\_Ant1\_2441\_0~Reference



3DH5\_Ant1\_2441\_30~1000

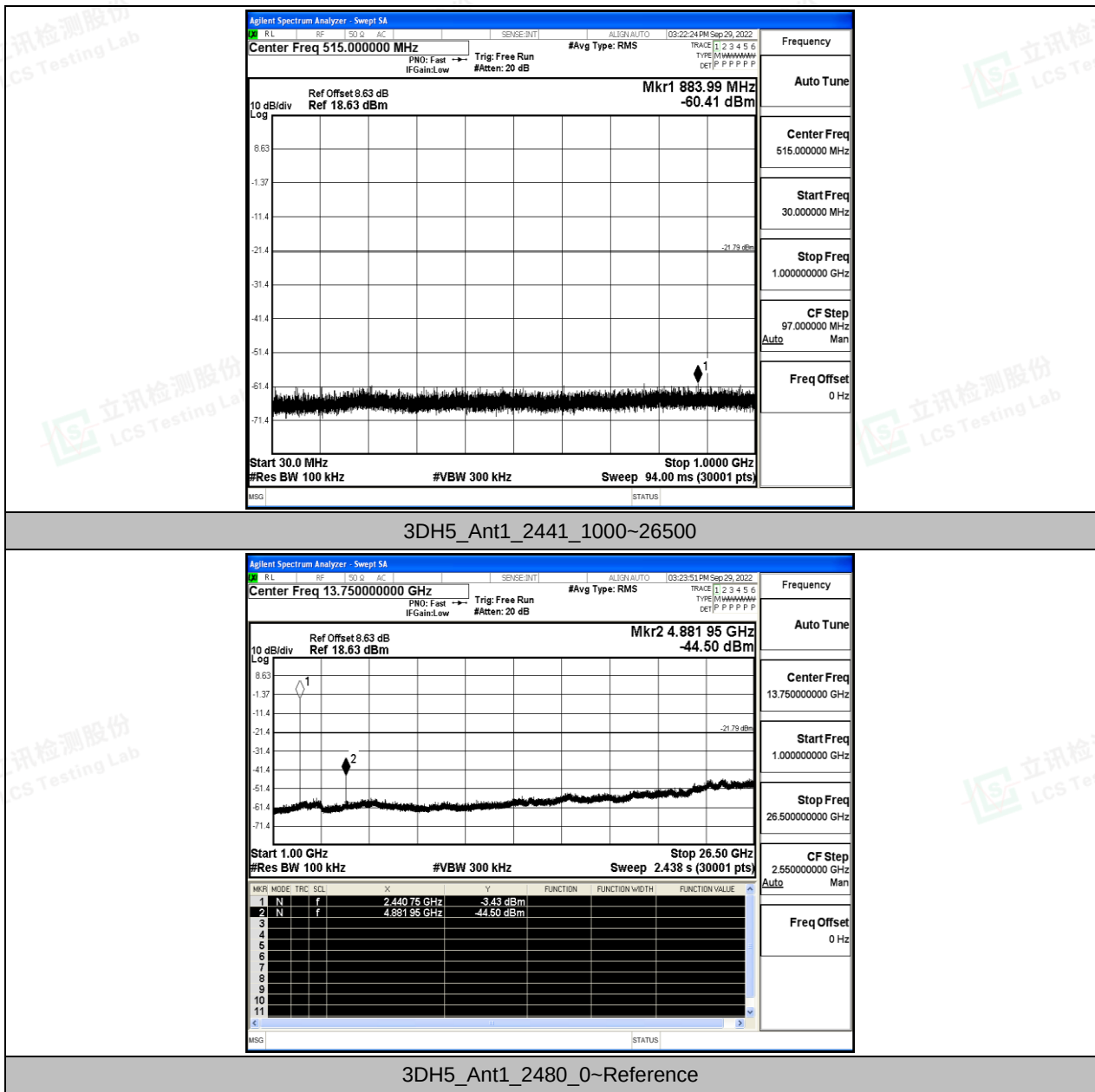


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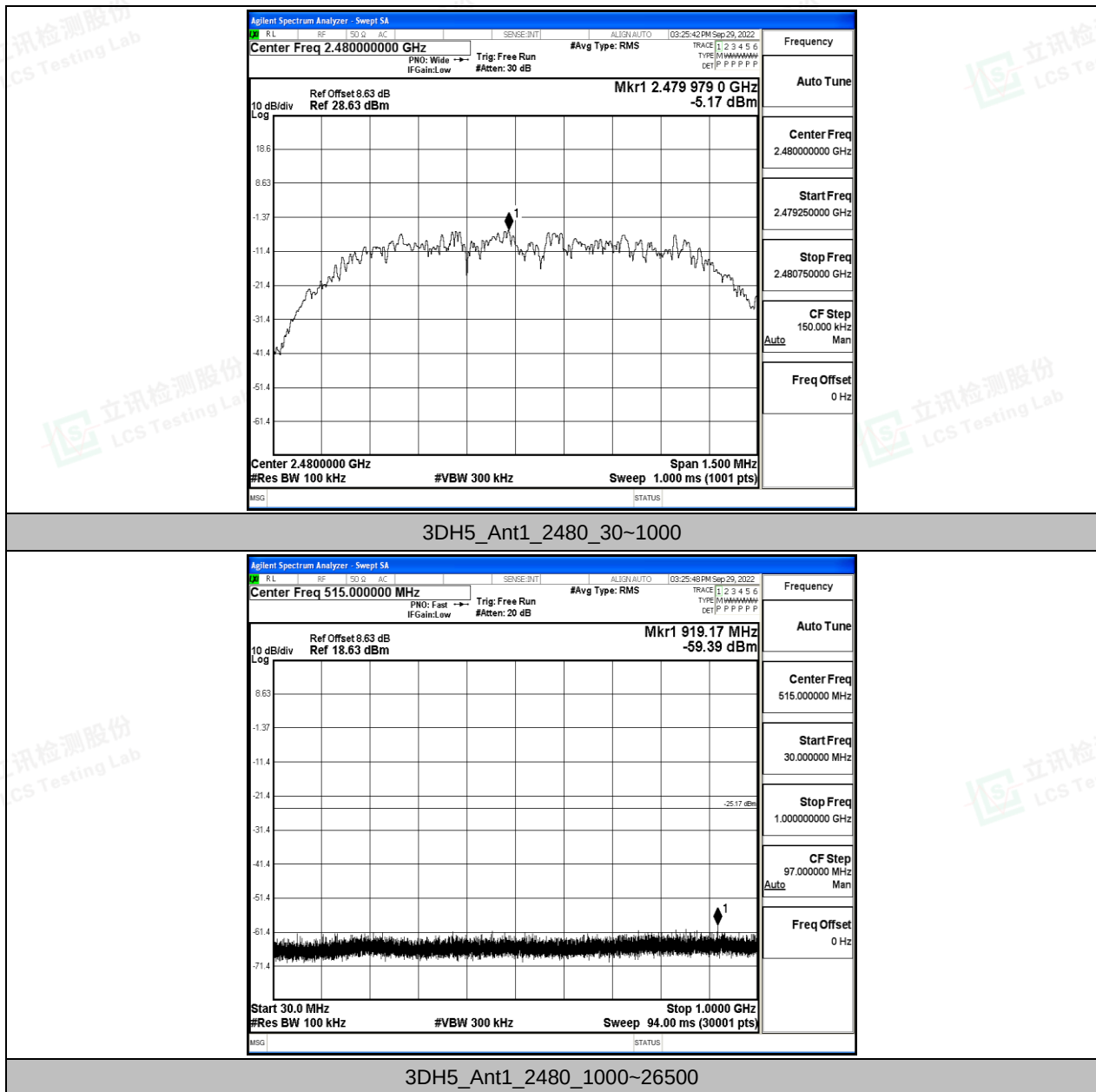


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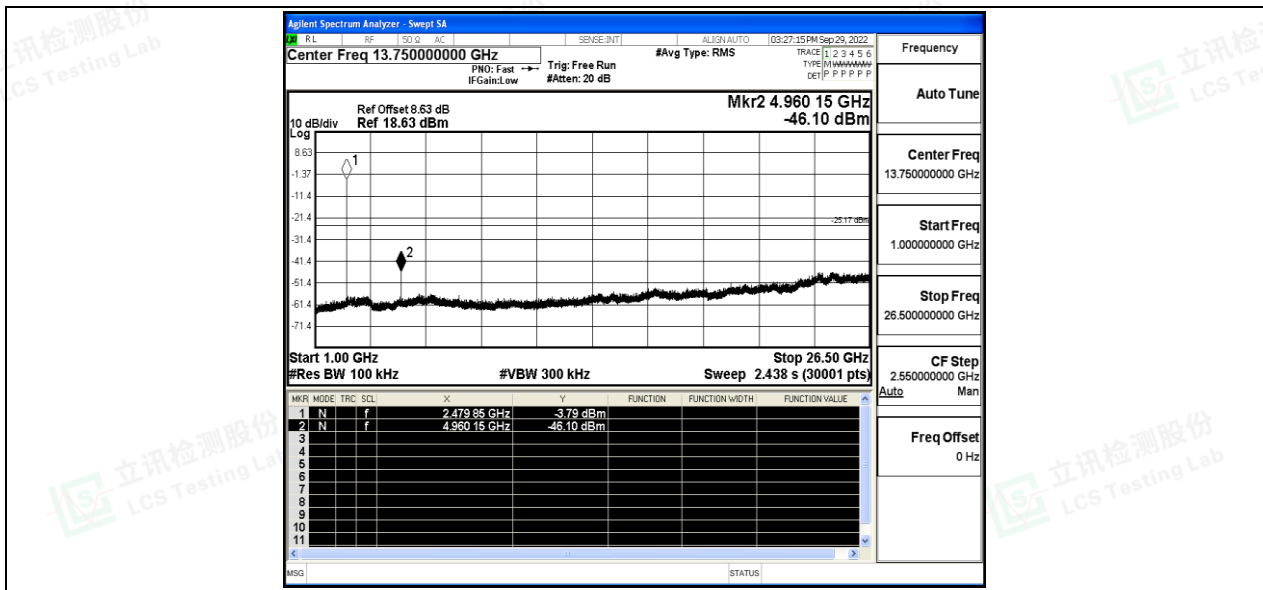


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## A.8 Emissions in Restricted Bands

### 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      | Ant1    | Low    | 2402     | AV       | 2310.000       | -58.06          | ≤-41.20        | 37.14              | ≤54               | PASS    |
|          |         |        |          | AV       | 2376.020       | -56.56          | ≤-41.20        | 38.64              | ≤54               | PASS    |
|          |         |        |          | AV       | 2390.000       | -57.71          | ≤-41.20        | 37.49              | ≤54               | PASS    |
|          |         |        |          | Peak     | 2310.000       | -51.07          | ≤-21.20        | 44.13              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2387.885       | -47.98          | ≤-21.20        | 47.22              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2390.000       | -53.05          | ≤-21.20        | 42.15              | ≤74               | PASS    |
|          |         | High   | 2480     | AV       | 2483.500       | -55.48          | ≤-41.20        | 39.72              | ≤54               | PASS    |
|          |         |        |          | AV       | 2483.520       | -55.48          | ≤-41.20        | 39.72              | ≤54               | PASS    |
|          |         |        |          | AV       | 2500.000       | -57.14          | ≤-41.20        | 38.06              | ≤54               | PASS    |
|          |         |        |          | Peak     | 2483.500       | -52.75          | ≤-21.20        | 42.45              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2496.240       | -48.29          | ≤-21.20        | 46.91              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2500.000       | -51.24          | ≤-21.20        | 43.96              | ≤74               | PASS    |
|          |         | Low    | Hop_2402 | Peak     | 2310.000       | -50.5           | ≤-21.20        | 44.70              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2341.370       | -47.2           | ≤-21.20        | 48.00              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2390.000       | -49.74          | ≤-21.20        | 45.46              | ≤74               | PASS    |
|          |         | High   | Hop_2480 | Peak     | 2483.500       | -48.67          | ≤-21.20        | 46.53              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2487.440       | -46.01          | ≤-21.20        | 49.19              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2500.000       | -49.09          | ≤-21.20        | 46.11              | ≤74               | PASS    |
| 2DH5     | Ant1    | Low    | 2402     | AV       | 2310.000       | -58.02          | ≤-41.20        | 37.18              | ≤54               | PASS    |
|          |         |        |          | AV       | 2376.020       | -57.05          | ≤-41.20        | 38.15              | ≤54               | PASS    |
|          |         |        |          | AV       | 2390.000       | -57.72          | ≤-41.20        | 37.48              | ≤54               | PASS    |
|          |         |        |          | Peak     | 2310.000       | -52.58          | ≤-21.20        | 42.62              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2376.440       | -48.2           | ≤-21.20        | 47.00              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2390.000       | -50.43          | ≤-21.20        | 44.77              | ≤74               | PASS    |
|          |         | High   | 2480     | AV       | 2483.500       | -54.37          | ≤-41.20        | 40.83              | ≤54               | PASS    |
|          |         |        |          | AV       | 2483.520       | -54.37          | ≤-41.20        | 40.83              | ≤54               | PASS    |
|          |         |        |          | AV       | 2500.000       | -57.25          | ≤-41.20        | 37.95              | ≤54               | PASS    |
|          |         |        |          | Peak     | 2483.500       | -50.54          | ≤-21.20        | 44.66              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2486.960       | -47.88          | ≤-21.20        | 47.32              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2500.000       | -52.22          | ≤-21.20        | 42.98              | ≤74               | PASS    |
|          |         | Low    | Hop_2402 | Peak     | 2310.000       | -50.66          | ≤-21.20        | 44.54              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2379.485       | -47.86          | ≤-21.20        | 47.34              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2390.000       | -48.79          | ≤-21.20        | 46.41              | ≤74               | PASS    |
|          |         | High   | Hop_2480 | Peak     | 2483.500       | -48.65          | ≤-21.20        | 46.55              | ≤74               | PASS    |
|          |         |        |          | Peak     | 2486.880       | -46.86          | ≤-21.20        | 48.34              | ≤74               | PASS    |



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|      |      |      |              |      |          |        |               |       |           |      |
|------|------|------|--------------|------|----------|--------|---------------|-------|-----------|------|
|      |      |      |              | Peak | 2500.000 | -48.96 | $\leq -21.20$ | 46.24 | $\leq 74$ | PASS |
| 3DH5 | Ant1 | Low  | 2402         | AV   | 2310.000 | -57.82 | $\leq -41.20$ | 37.38 | $\leq 54$ | PASS |
|      |      |      |              | AV   | 2376.230 | -56.74 | $\leq -41.20$ | 38.46 | $\leq 54$ | PASS |
|      |      |      |              | AV   | 2390.000 | -57.55 | $\leq -41.20$ | 37.65 | $\leq 54$ | PASS |
|      |      |      |              | Peak | 2310.000 | -54.43 | $\leq -21.20$ | 40.77 | $\leq 74$ | PASS |
|      |      |      |              | Peak | 2334.860 | -47.87 | $\leq -21.20$ | 47.33 | $\leq 74$ | PASS |
|      |      |      |              | Peak | 2390.000 | -51.48 | $\leq -21.20$ | 43.72 | $\leq 74$ | PASS |
|      |      | High | 2480         | AV   | 2483.500 | -55.27 | $\leq -41.20$ | 39.93 | $\leq 54$ | PASS |
|      |      |      |              | AV   | 2483.520 | -55.26 | $\leq -41.20$ | 39.94 | $\leq 54$ | PASS |
|      |      |      |              | AV   | 2500.000 | -57.15 | $\leq -41.20$ | 38.05 | $\leq 54$ | PASS |
|      |      |      |              | Peak | 2483.500 | -50.81 | $\leq -21.20$ | 44.39 | $\leq 74$ | PASS |
|      |      |      |              | Peak | 2499.920 | -48.85 | $\leq -21.20$ | 46.35 | $\leq 74$ | PASS |
|      |      |      |              | Peak | 2500.000 | -53.35 | $\leq -21.20$ | 41.85 | $\leq 74$ | PASS |
|      |      | Low  | Hop_240<br>2 | Peak | 2310.000 | -50.36 | $\leq -21.20$ | 44.84 | $\leq 74$ | PASS |
|      |      |      |              | Peak | 2358.800 | -47.47 | $\leq -21.20$ | 47.73 | $\leq 74$ | PASS |
|      |      |      |              | Peak | 2390.000 | -48.56 | $\leq -21.20$ | 46.64 | $\leq 74$ | PASS |
|      |      | High | Hop_248<br>0 | Peak | 2483.500 | -48.43 | $\leq -21.20$ | 46.77 | $\leq 74$ | PASS |
|      |      |      |              | Peak | 2493.280 | -46.86 | $\leq -21.20$ | 48.34 | $\leq 74$ | PASS |
|      |      |      |              | Peak | 2500.000 | -47.72 | $\leq -21.20$ | 47.48 | $\leq 74$ | 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.



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## Test Graphs



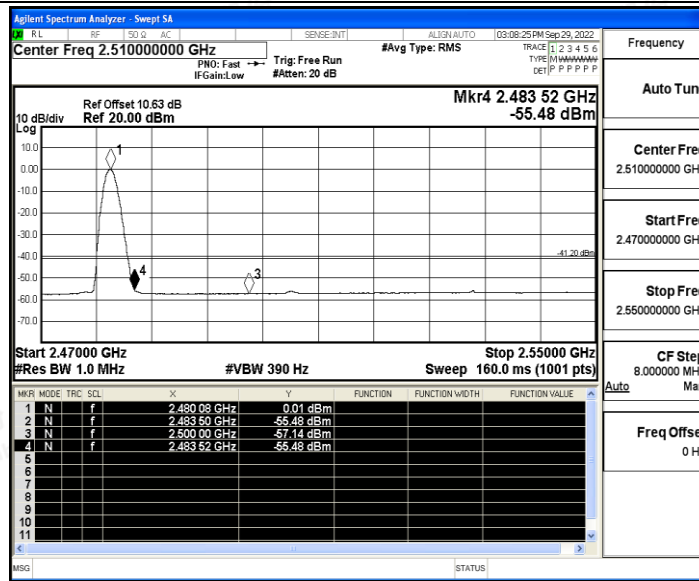
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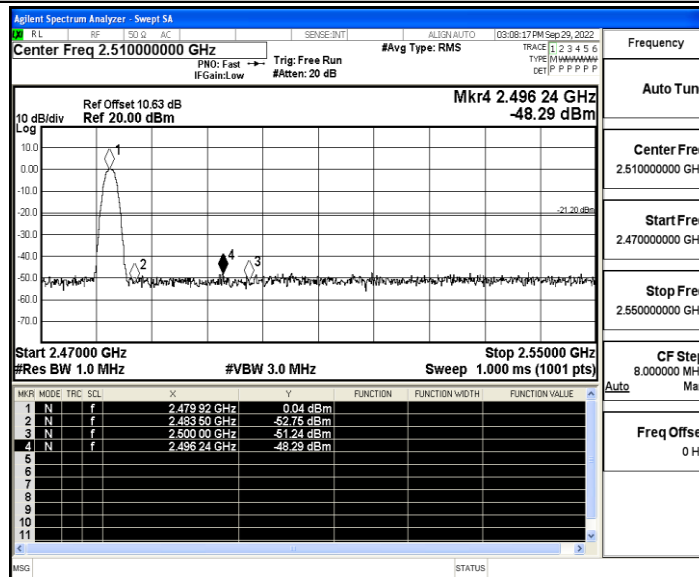
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DH5\_Ant1\_High\_2480\_Peak



DH5\_Ant1\_Low\_Hop\_2402\_Peak



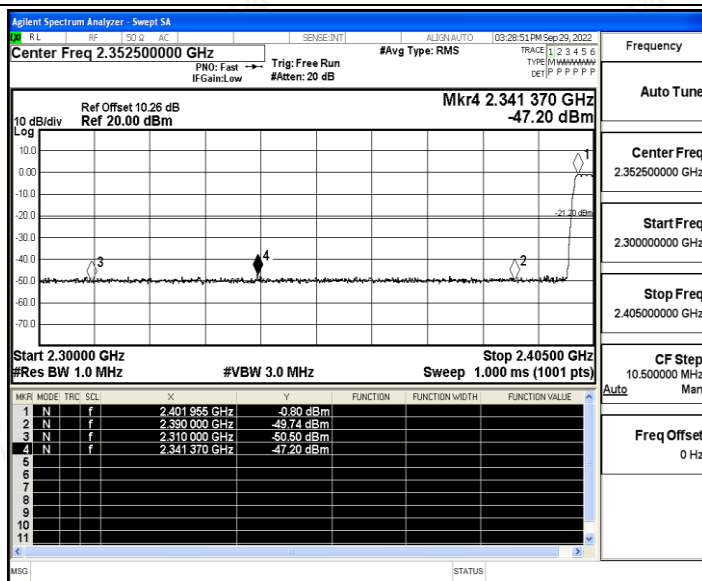
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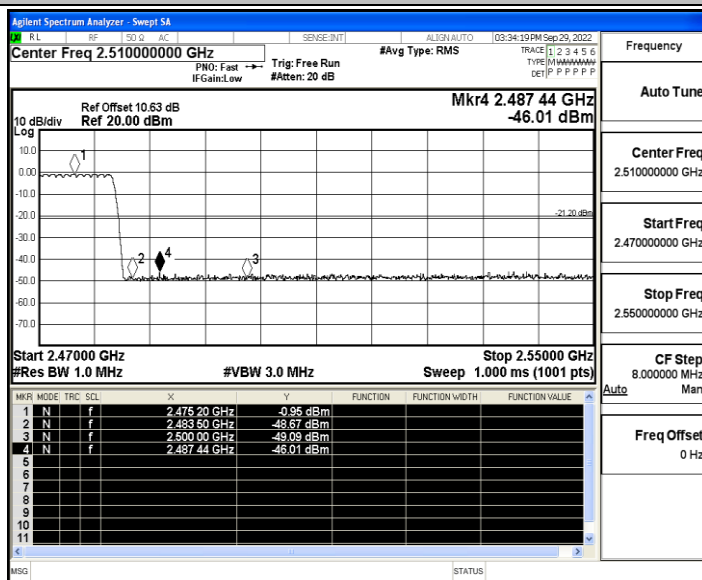
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DH5\_Ant1\_High\_Hop\_2480\_Peak



2DH5\_Ant1\_Low\_2402\_AV

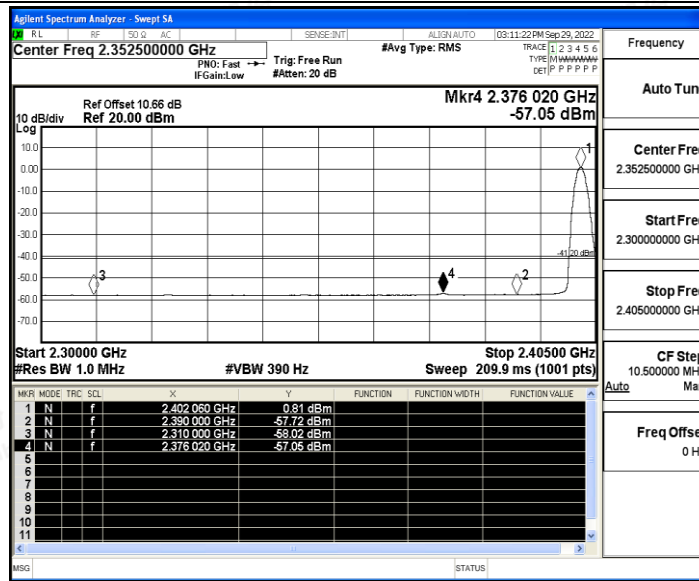


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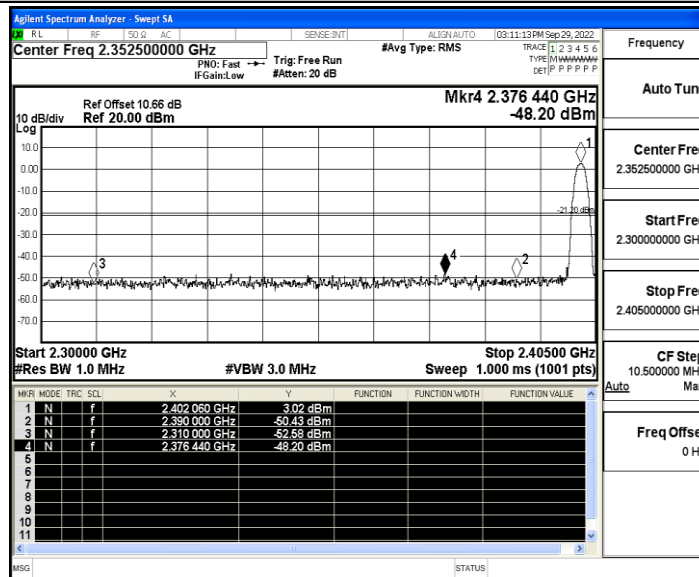
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5\_Ant1\_Low\_2402\_Peak



2DH5\_Ant1\_High\_2480\_AV

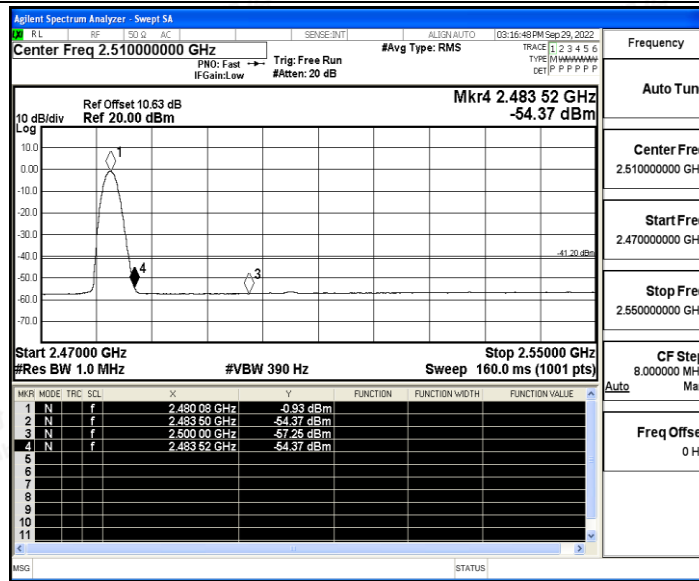


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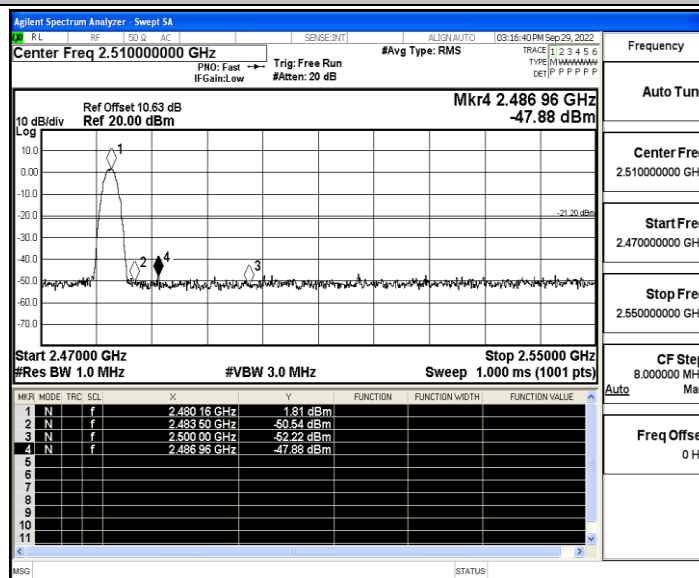
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2DH5\_Ant1\_High\_2480\_Peak



2DH5\_Ant1\_Low\_Hop\_2402\_Peak

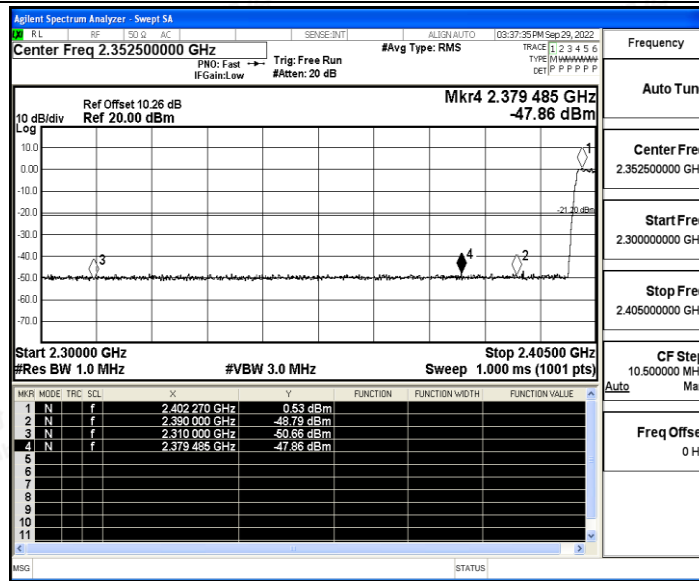


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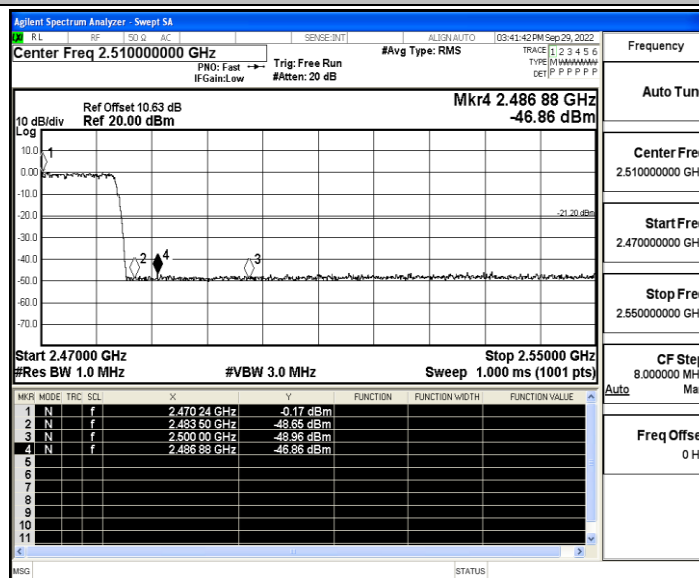
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2DH5\_Ant1\_High\_Hop\_2480\_Peak



3DH5\_Ant1\_Low\_2402\_AV

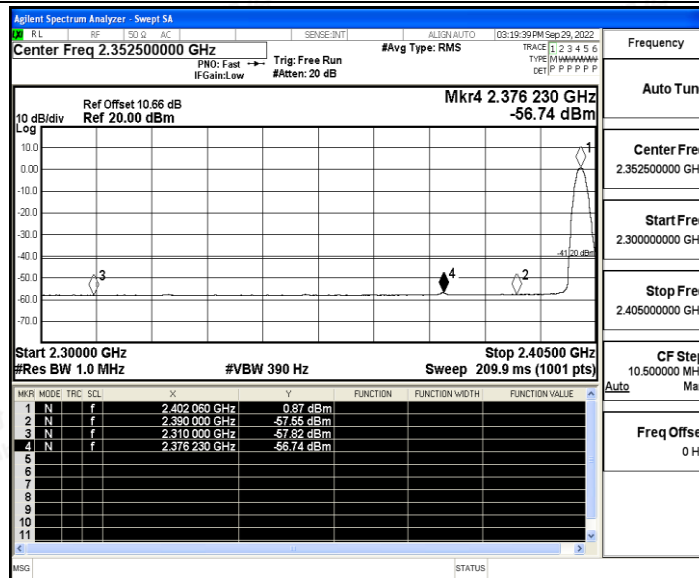


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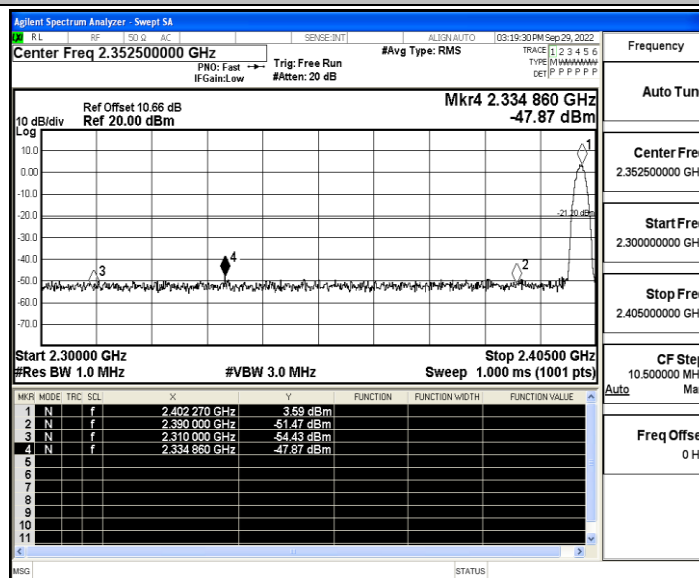
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3DH5\_Ant1\_Low\_2402\_Peak



3DH5\_Ant1\_High\_2480\_AV

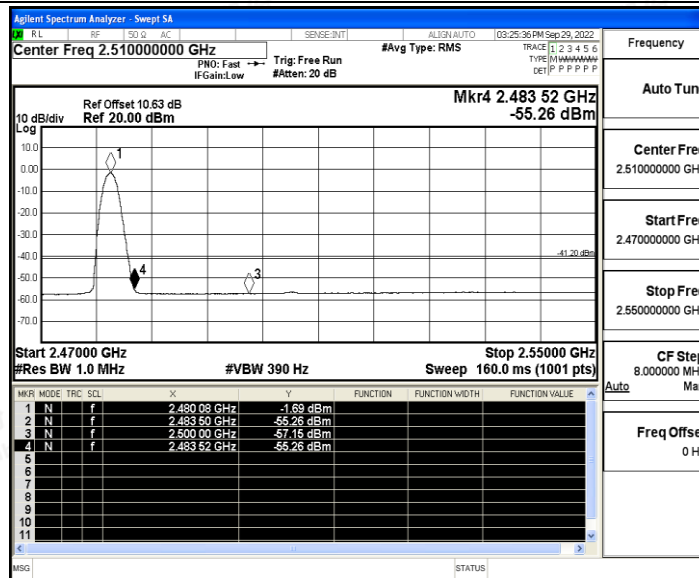


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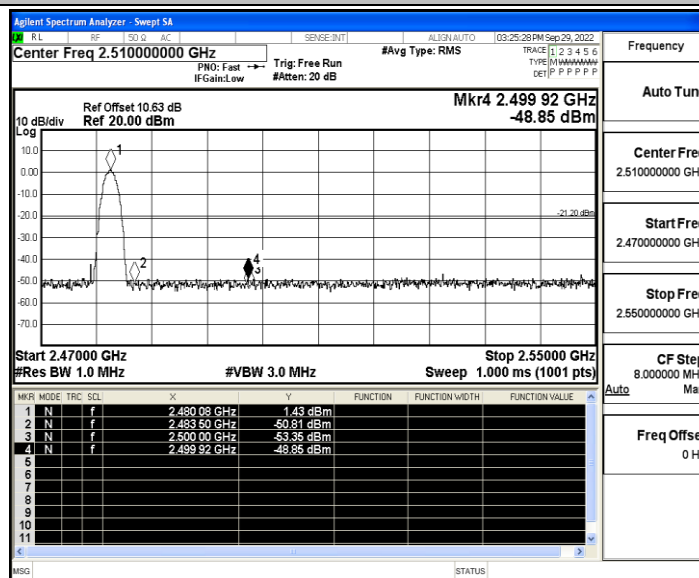
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3DH5\_Ant1\_High\_2480\_Peak



3DH5\_Ant1\_Low\_Hop\_2402\_Peak



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