



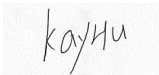
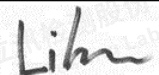
## Appendix A

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

Product Name: Enjox Yami

Test Model: Yami

#### Environmental Conditions

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Temperature:       | 23.5℃                                                                                           |
| Relative Humidity: | 52.2%                                                                                           |
| ATM Pressure:      | 100.0 kPa                                                                                       |
| Test Engineer:     | <br>Kay Hu    |
| Supervised by:     | <br>Li Huan |



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A.1 DTS Bandwidth

Test Result

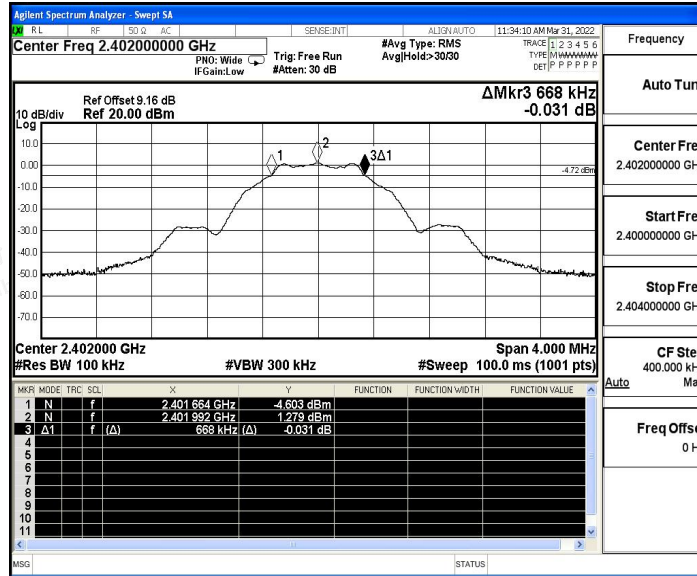
| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.668        | 2401.664 | 2402.332 | 0.5        | PASS    |
|          |         | 2440    | 0.664        | 2439.668 | 2440.332 | 0.5        | PASS    |
|          |         | 2480    | 0.668        | 2479.664 | 2480.332 | 0.5        | PASS    |



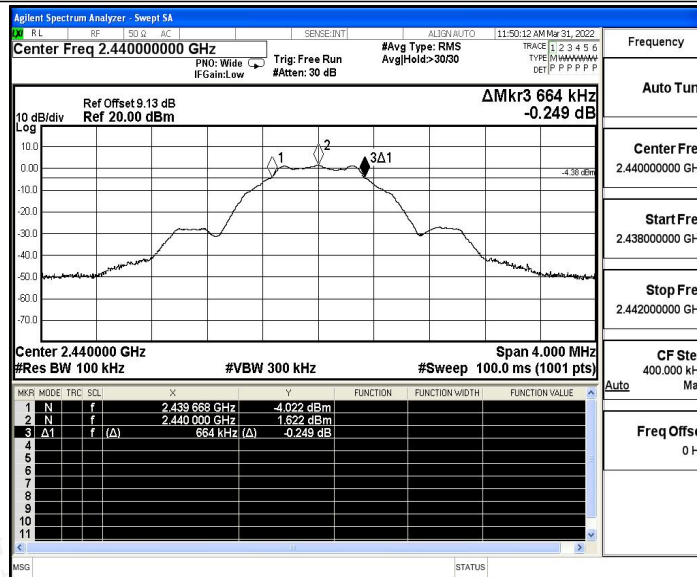


## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

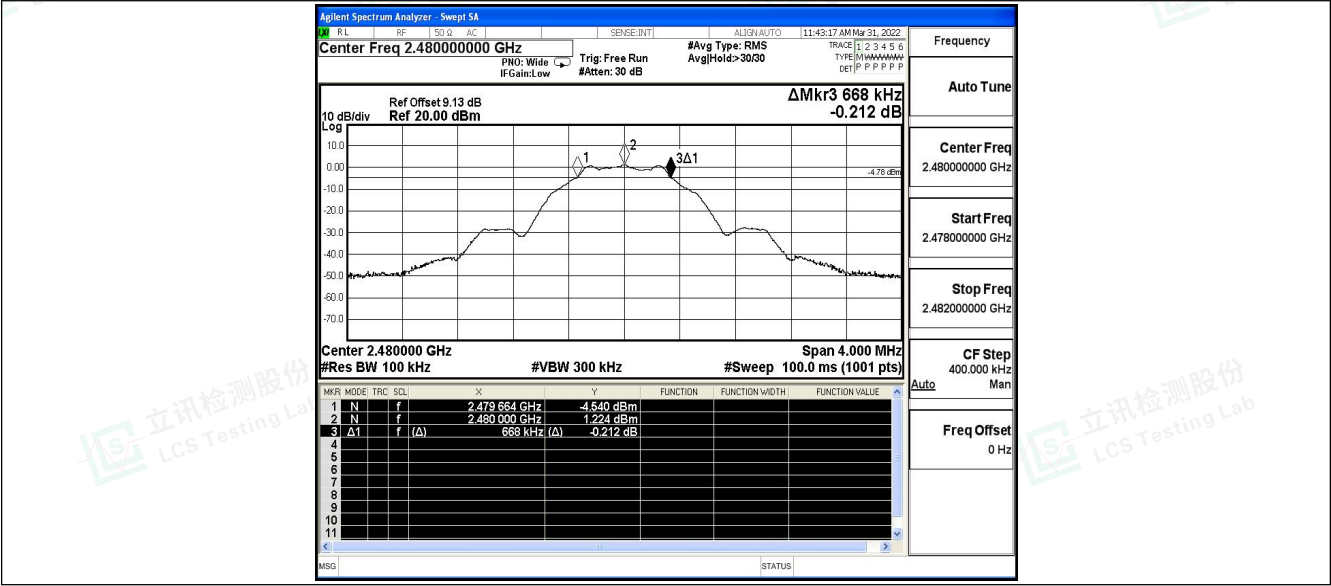


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## A.2 Maximum peak conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 1.86        | ≤30        | PASS    |
|          |         | 2440    | 2.18        | ≤30        | PASS    |
|          |         | 2480    | 1.77        | ≤30        | PASS    |



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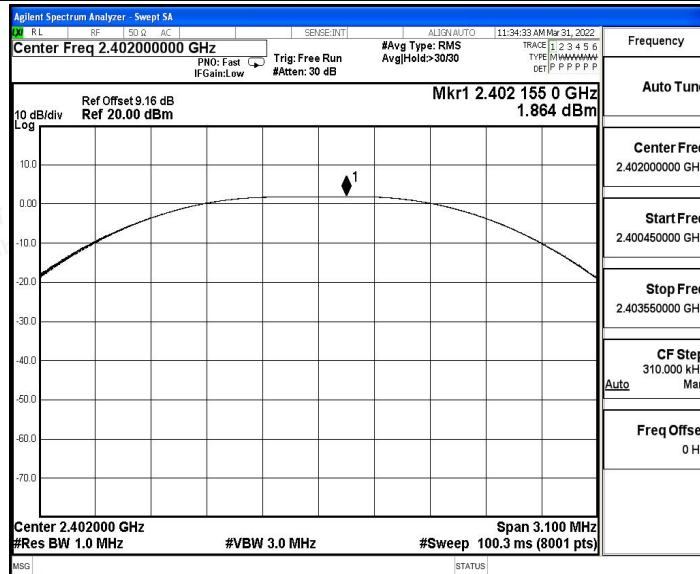
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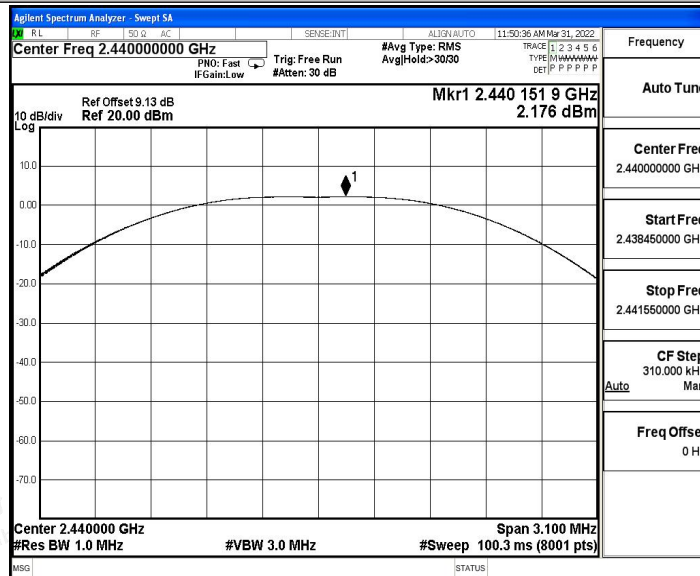


## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

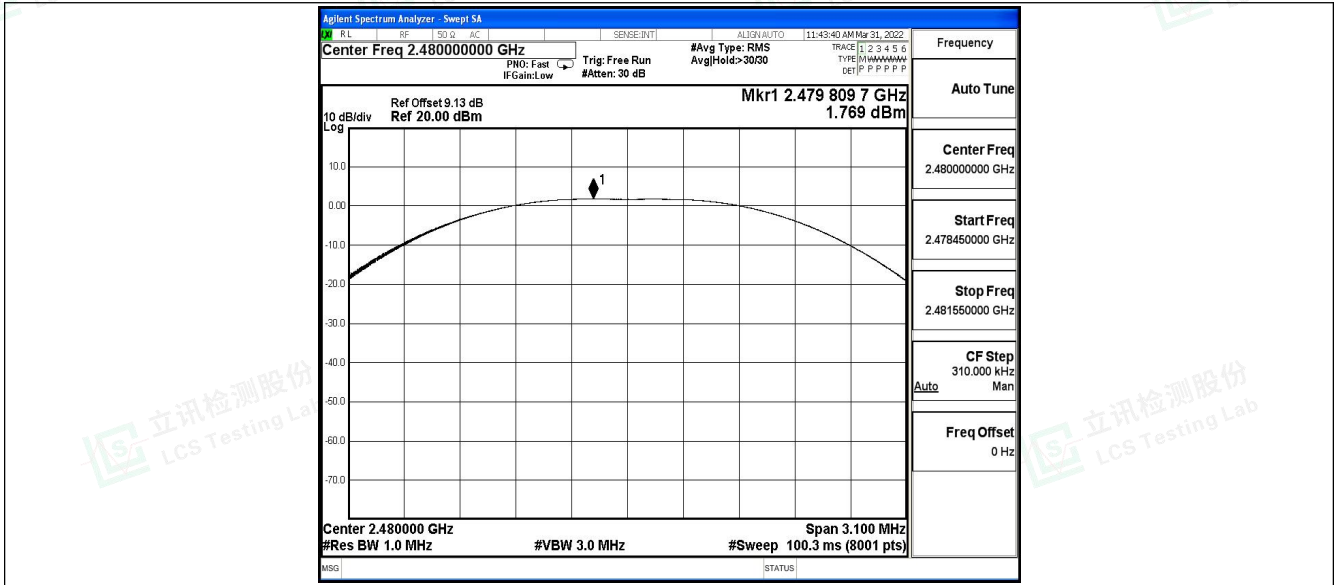


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### A.3 Maximum power spectral density

#### Test Result

| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -12.91           | ≤8.00           | PASS    |
|          |         | 2440    | -12.69           | ≤8.00           | PASS    |
|          |         | 2480    | -13.08           | ≤8.00           | PASS    |



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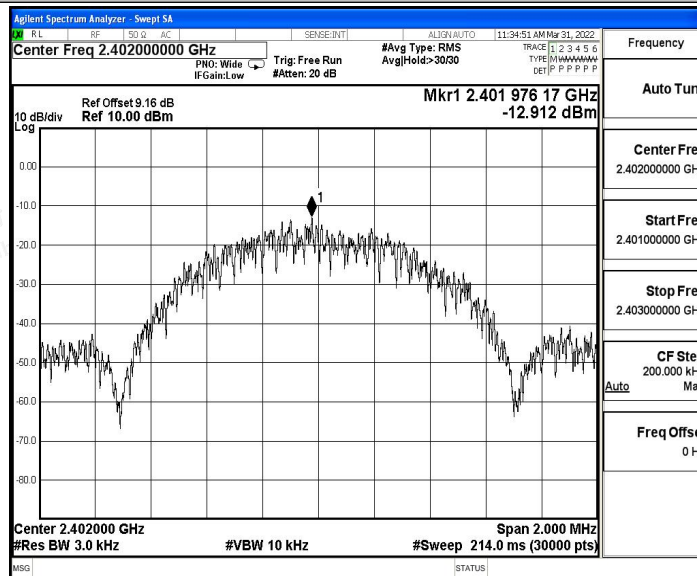
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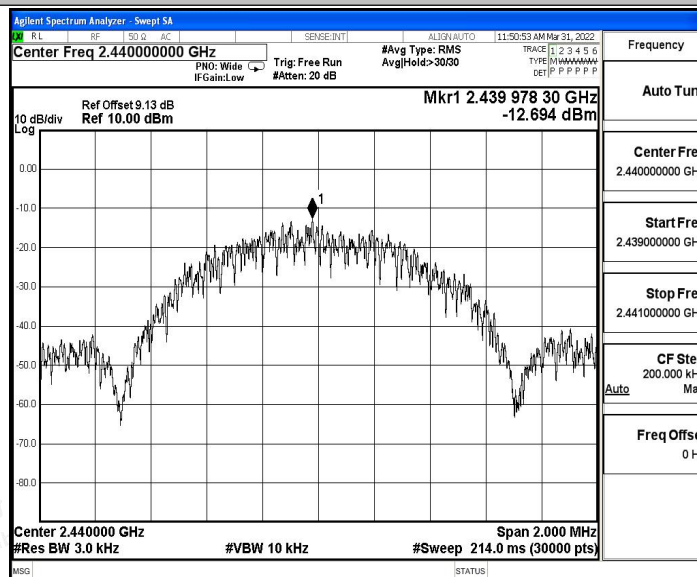


## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

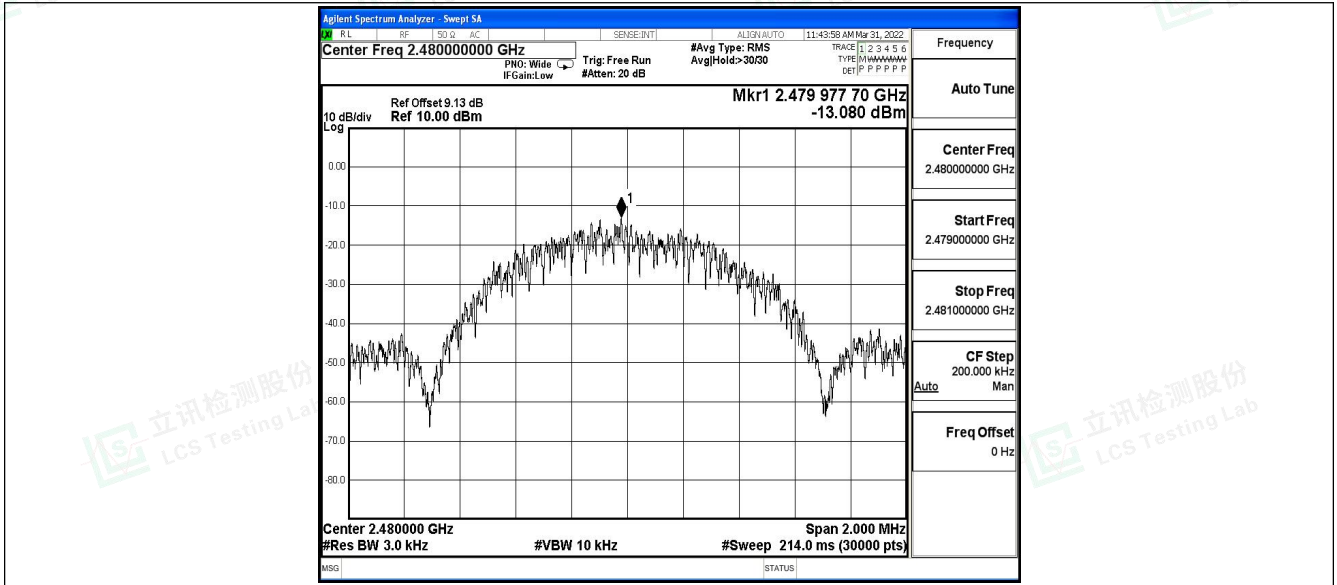


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A.4 Band edge measurements

Test Result

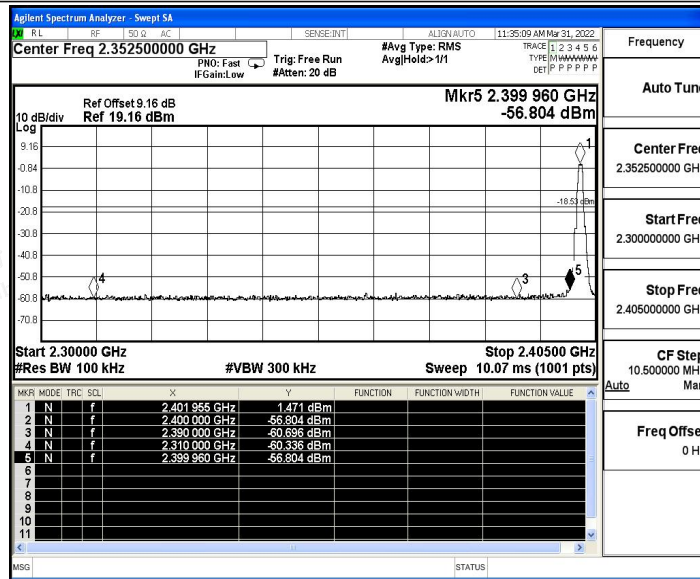
| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | 1.47          | -56.8       | ≤-18.53    | PASS    |
|          |         | High   | 2480    | 1.28          | -57.09      | ≤-18.73    | PASS    |



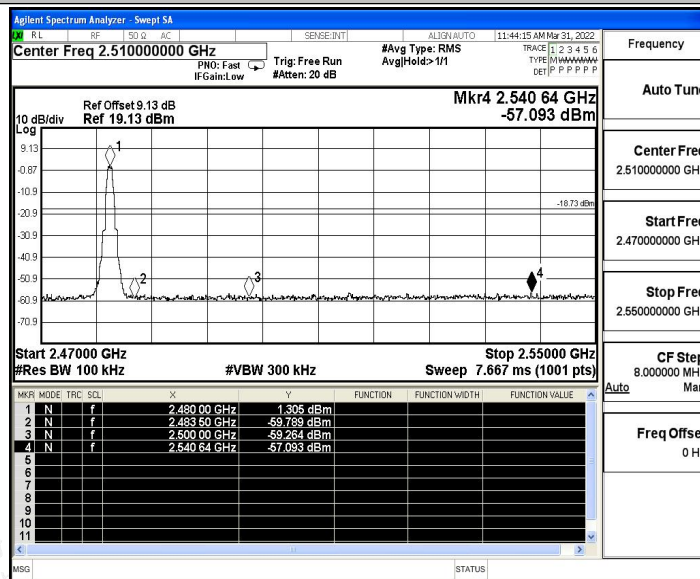


## Test Graphs

BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480



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## A.5 Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|---------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | 1.32              | 1.32        | ---           | PASS    |
|          |         |         | 30~1000            | 1.32              | -60.16      | $\leq -18.68$ | PASS    |
|          |         |         | 1000~26500         | 1.32              | -45.13      | $\leq -18.68$ | PASS    |
|          |         | 2440    | Reference          | 1.62              | 1.62        | ---           | PASS    |
|          |         |         | 30~1000            | 1.62              | -60.44      | $\leq -18.38$ | PASS    |
|          |         |         | 1000~26500         | 1.62              | -45.48      | $\leq -18.38$ | PASS    |
|          |         | 2480    | Reference          | 1.26              | 1.26        | ---           | PASS    |
|          |         |         | 30~1000            | 1.26              | -59.98      | $\leq -18.74$ | PASS    |
|          |         |         | 1000~26500         | 1.26              | -45.2       | $\leq -18.74$ | PASS    |



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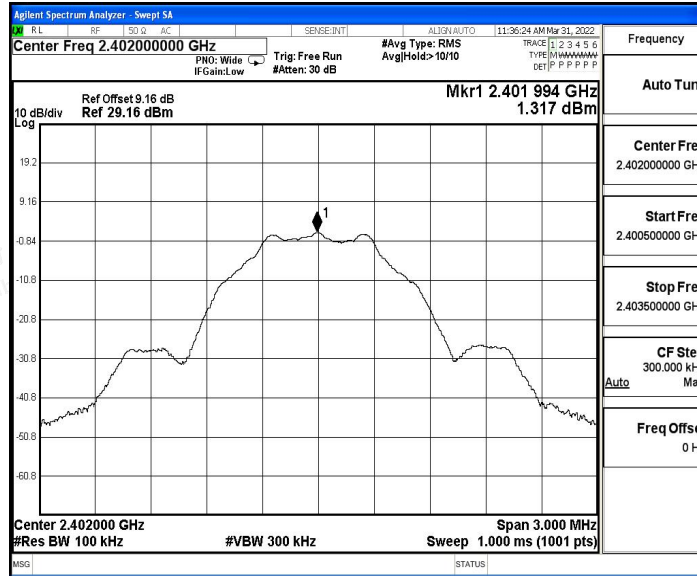
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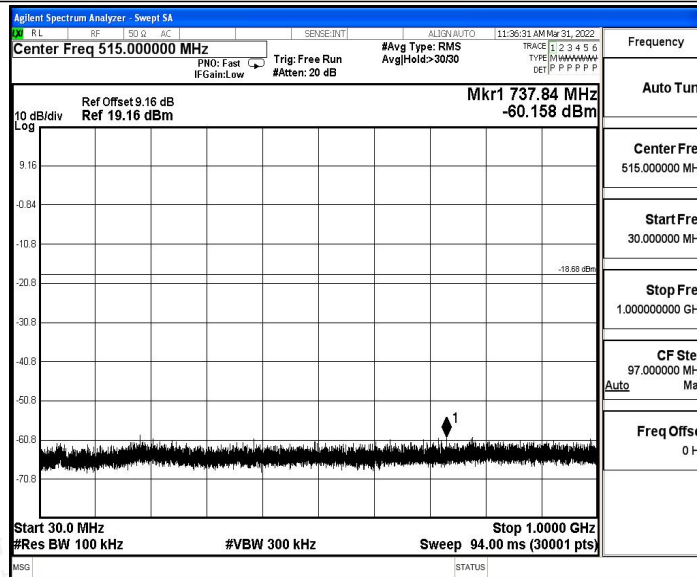


## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

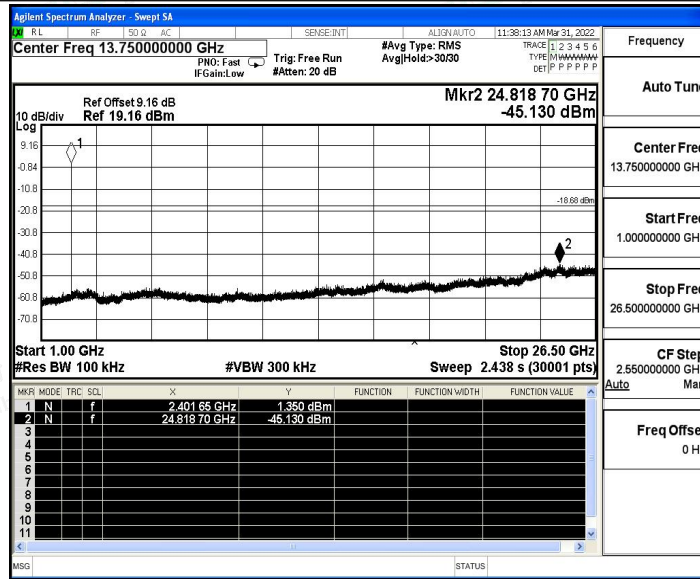


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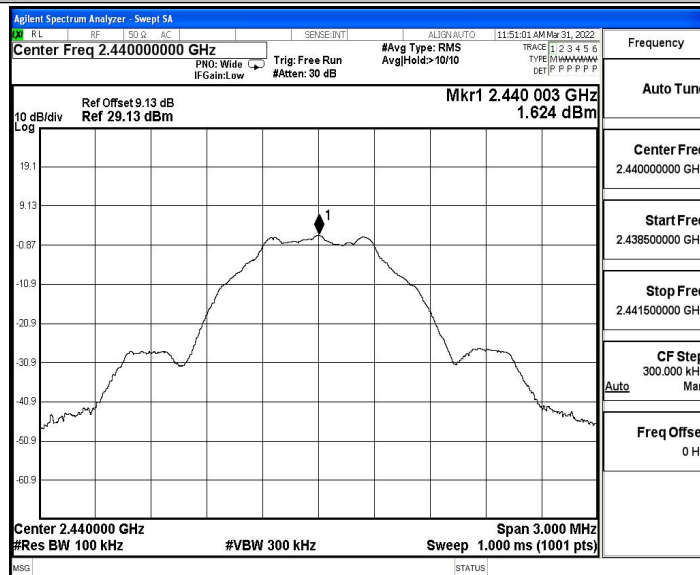
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BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000

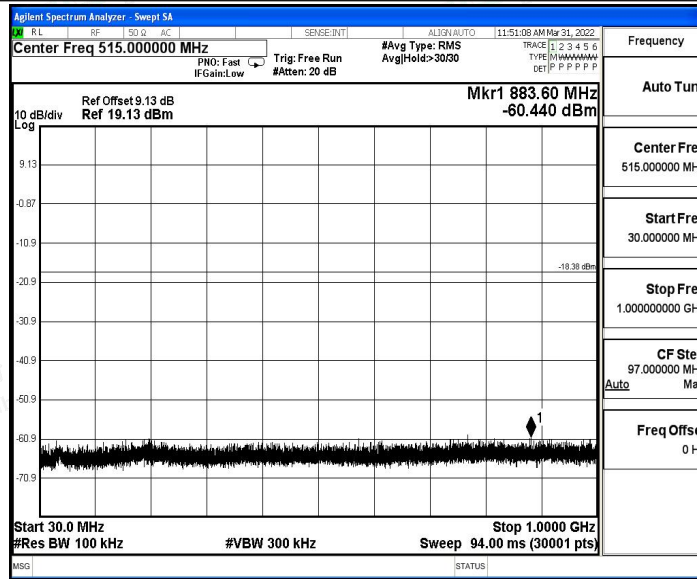


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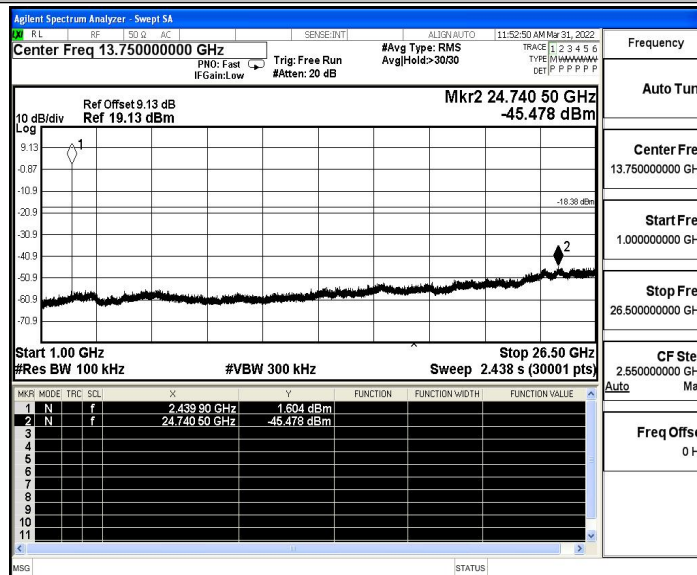
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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

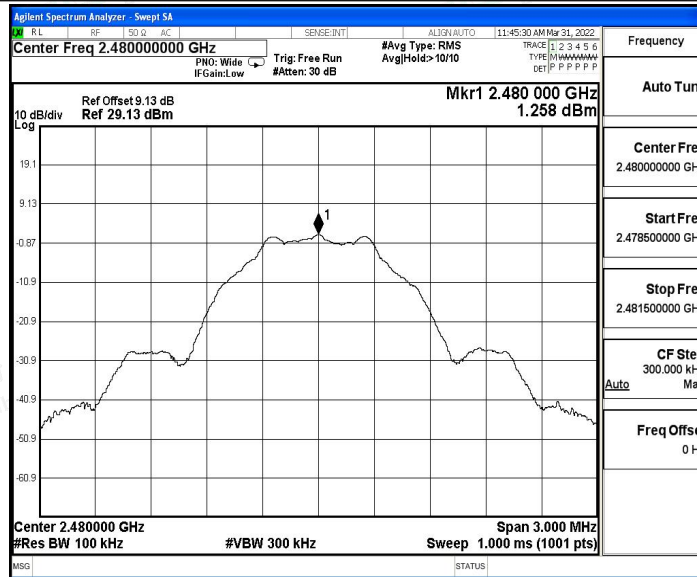


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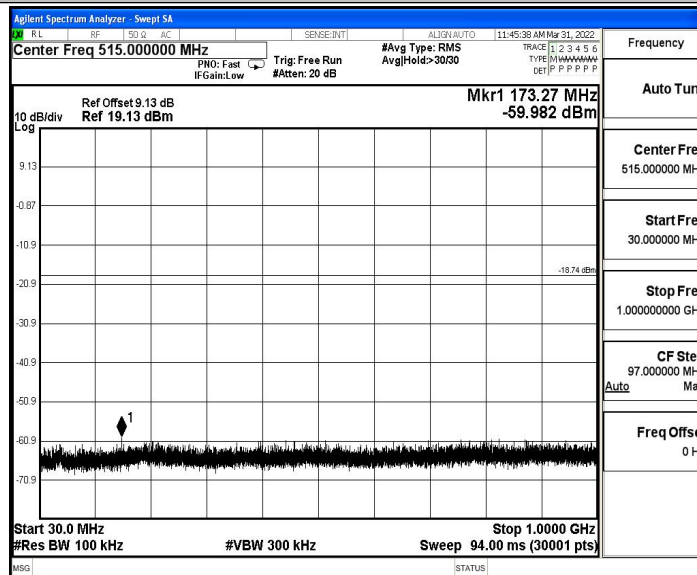
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

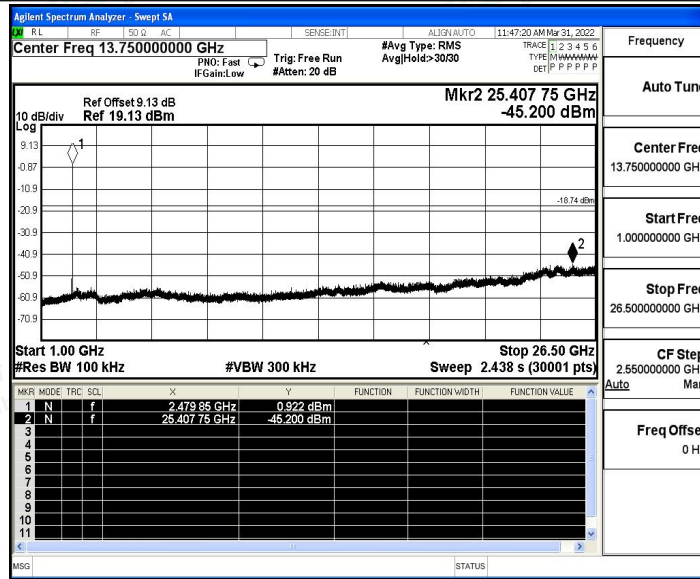


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## A.6 Duty Cycle

### Test Result

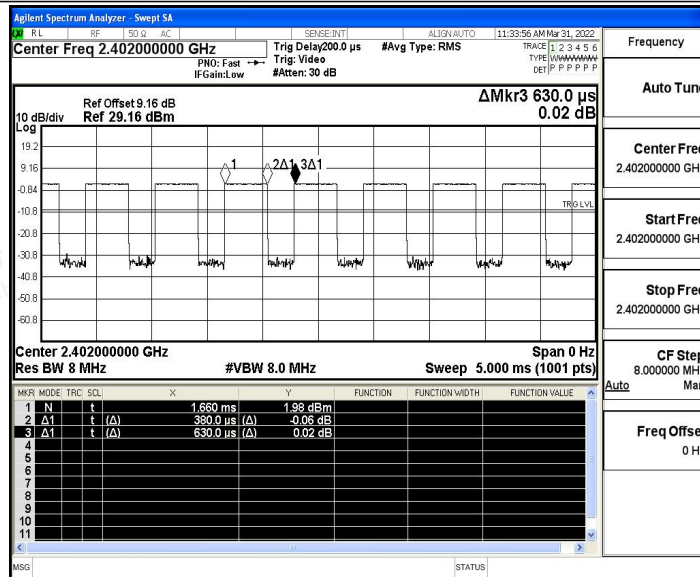
| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X      | DC [%] | xFactor | 1/T[kHz] |
|----------|---------|---------|-----------------|----------------|--------|--------|---------|----------|
| BLE_1M   | Ant1    | 2402    | 0.38            | 0.63           | 0.6032 | 60.32  | 2.20    | 2.63     |
|          |         | 2440    | 0.39            | 0.63           | 0.6190 | 61.90  | 2.08    | 2.63     |
|          |         | 2480    | 0.39            | 0.63           | 0.6190 | 61.90  | 2.08    | 2.63     |



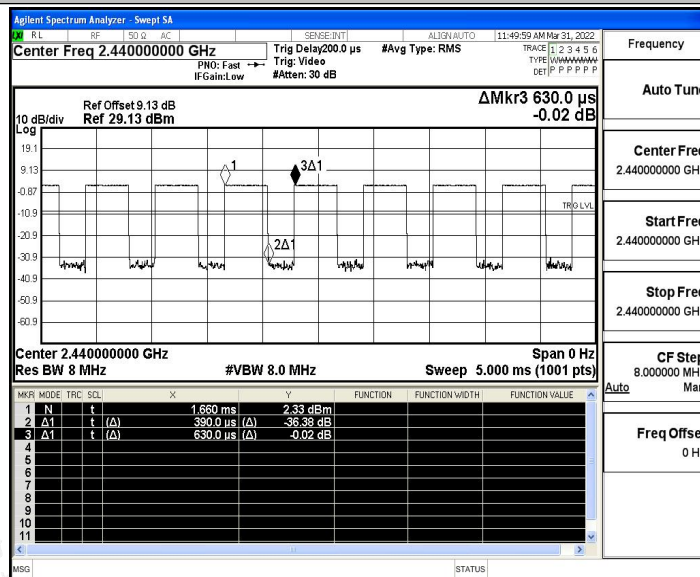


## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

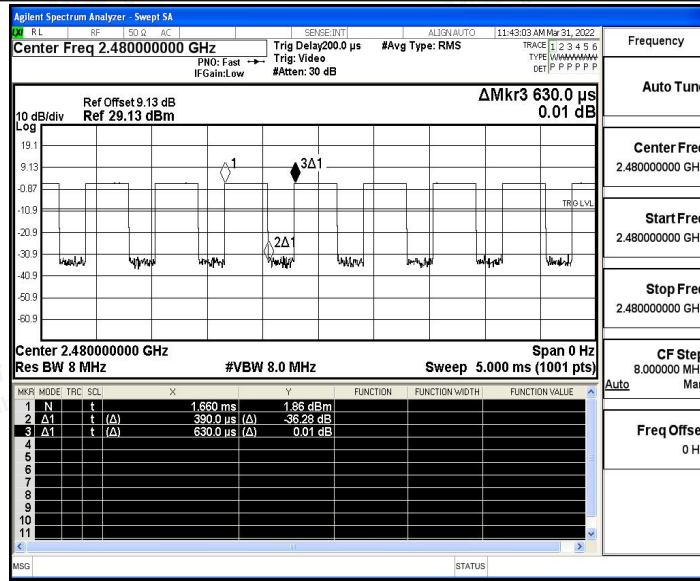


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## A.7 Emissions in Restricted Bands

### 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 |
|----------|---------|--------|---------|----------|----------------|-----------------|----------------|--------------------|-------------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | AV       | 2310.000       | -56.44          | ≤-41.20        | 38.76              | ≤54               | PASS    |
|          |         |        |         | AV       | 2388.620       | -56.03          | ≤-41.20        | 39.17              | ≤54               | PASS    |
|          |         |        |         | AV       | 2390.000       | -56.49          | ≤-41.20        | 38.71              | ≤54               | PASS    |
|          |         |        |         | Peak     | 2310.000       | -48.64          | ≤-21.20        | 46.56              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2354.075       | -45.65          | ≤-21.20        | 49.55              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2390.000       | -48.28          | ≤-21.20        | 46.92              | ≤74               | PASS    |
|          |         | High   | 2480    | AV       | 2483.500       | -52.02          | ≤-41.20        | 43.18              | ≤54               | PASS    |
|          |         |        |         | AV       | 2483.520       | -52.02          | ≤-41.20        | 43.18              | ≤54               | PASS    |
|          |         |        |         | AV       | 2500.000       | -55.56          | ≤-41.20        | 39.64              | ≤54               | PASS    |
|          |         |        |         | Peak     | 2483.500       | -47.4           | ≤-21.20        | 47.80              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2484.320       | -45.16          | ≤-21.20        | 50.04              | ≤74               | PASS    |
|          |         |        |         | Peak     | 2500.000       | -46.15          | ≤-21.20        | 49.05              | ≤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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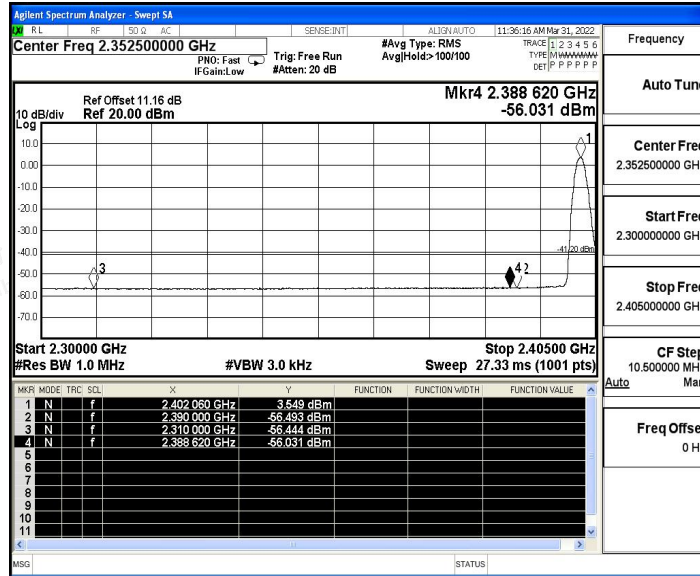
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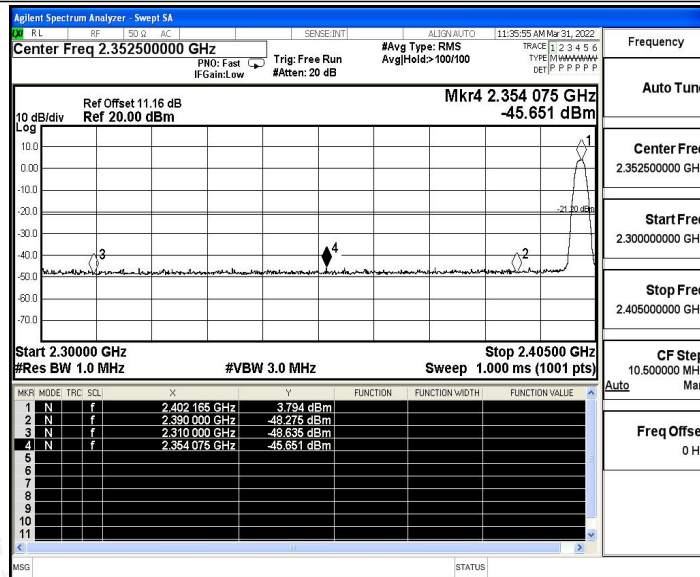


## Test Graphs

BLE\_1M\_Ant1\_Low\_2402\_AV



BLE\_1M\_Ant1\_Low\_2402\_Peak



BLE\_1M\_Ant1\_High\_2480\_AV

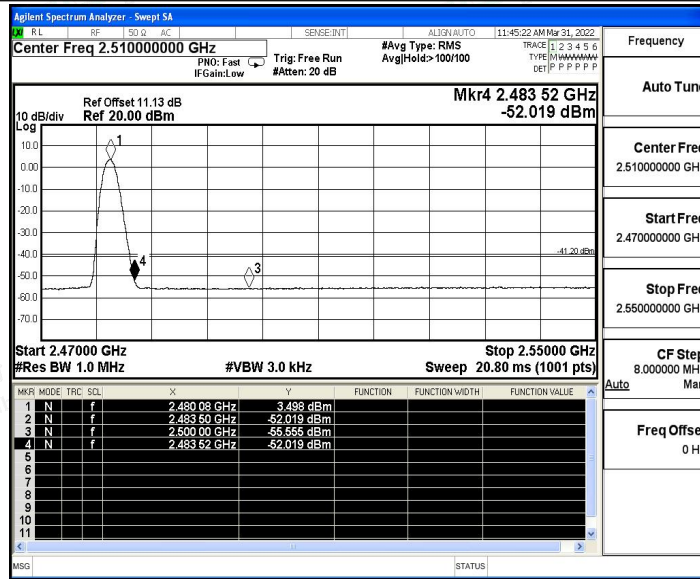


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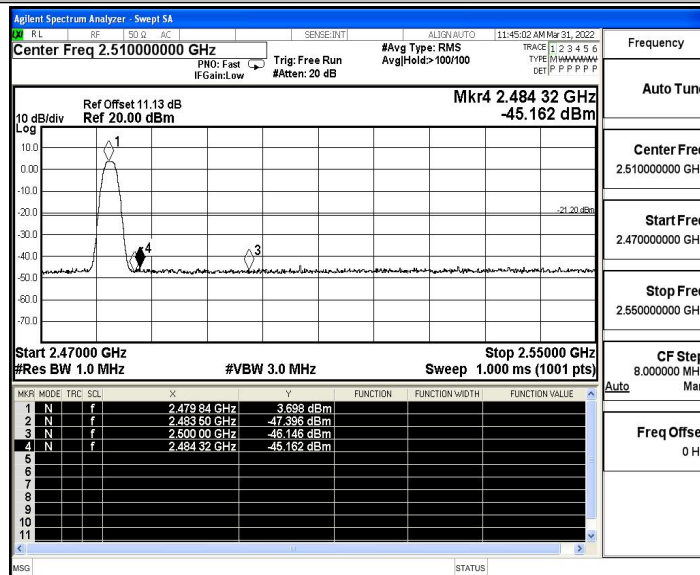
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BLE\_1M\_Ant1\_High\_2480\_Peak



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