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| <b>Case No. :</b> <u>GTS20231209008-1-2</u>                                  |
| <b>Ambient Condition:</b> <u>24</u> °C, <u>48</u> %RH, Atmos100.1Kpa,        |
| <b>Test Date:</b> <u>2023.12.29</u> <b>Test Engineer:</b> <u>Evan ouyang</u> |

## Appendix A.1: DTS Bandwidth

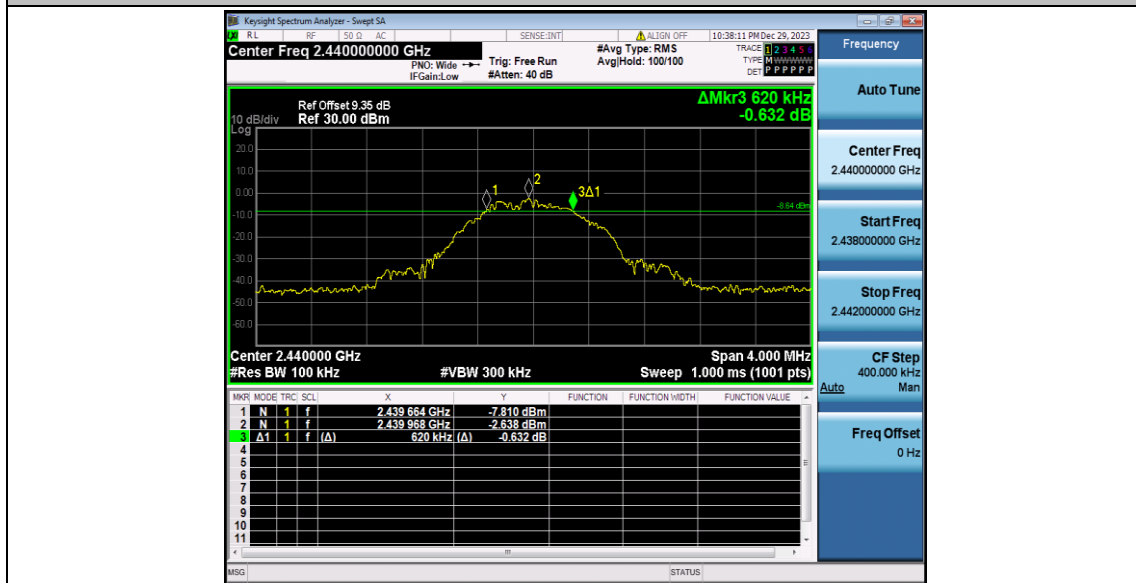
### Test Result

| Test Mode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE       | Ant1    | 2402           | 0.604        | 2401.676 | 2402.280 | 0.5        | PASS    |
|           |         | 2440           | 0.620        | 2439.664 | 2440.284 | 0.5        | PASS    |
|           |         | 2480           | 0.588        | 2479.692 | 2480.280 | 0.5        | PASS    |

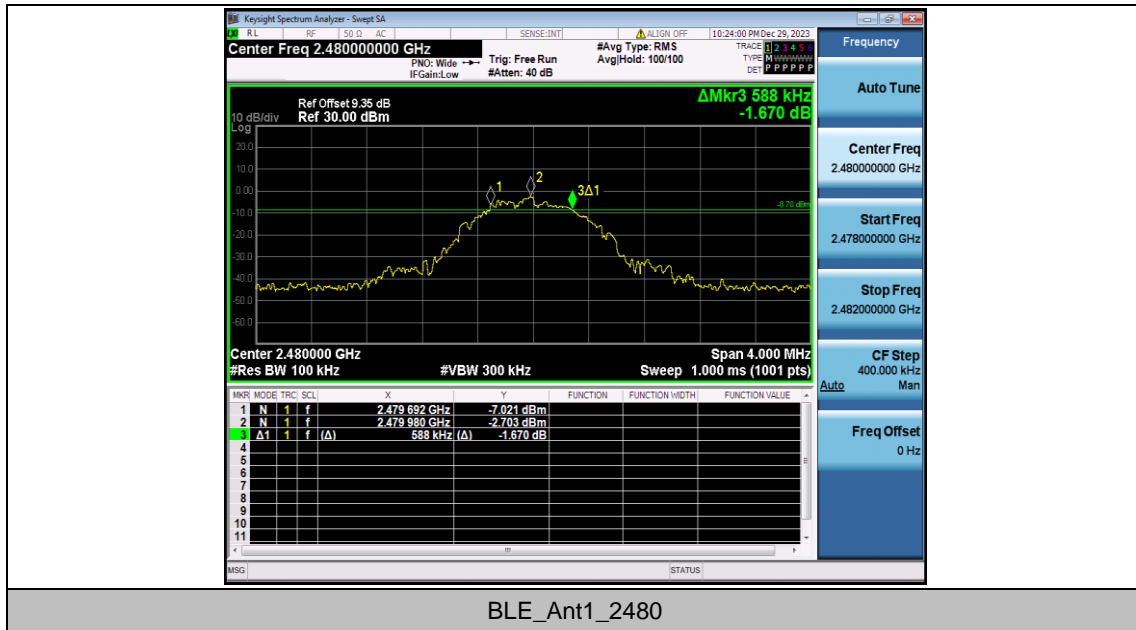
## Test Graphs



BLE\_Ant1\_2402



BLE\_Ant1\_2440



## Appendix A.2: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|----------|----------|------------|---------|
| BLE       | Ant1    | 2402           | 1.0052    | 2401.480 | 2402.485 | ---        | ---     |
|           |         | 2440           | 1.0481    | 2439.480 | 2440.528 | ---        | ---     |
|           |         | 2480           | 1.0515    | 2479.478 | 2480.530 | ---        | ---     |

## Appendix A.3: Maximum conducted output power

### Test Result

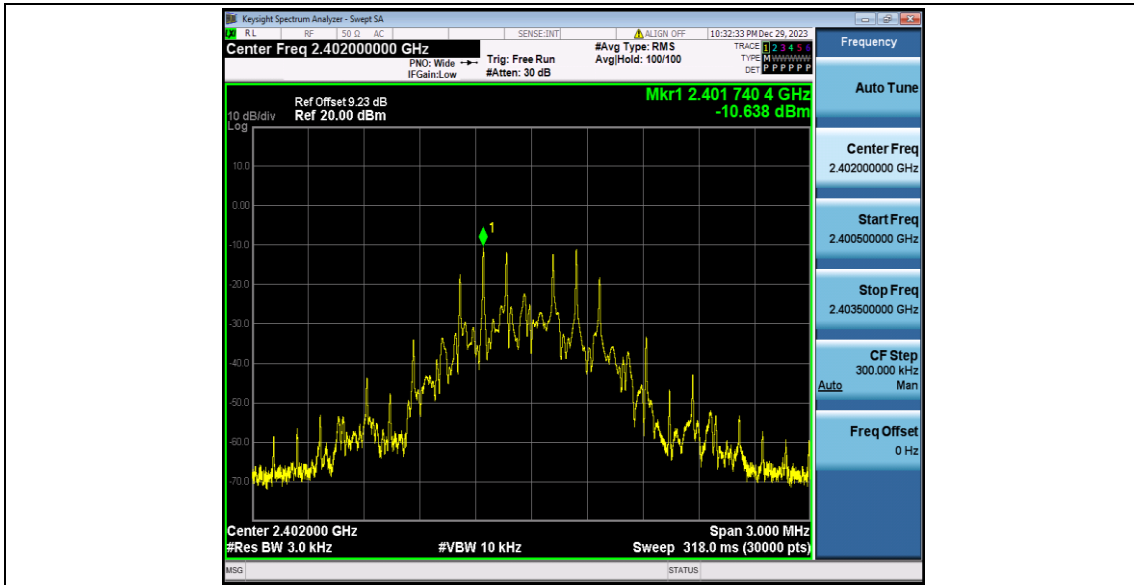
| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| BLE       | Ant1    | 2402           | -2.27                     | ≤30                  | PASS    |
|           |         | 2440           | -1.36                     | ≤30                  | PASS    |
|           |         | 2480           | -1.73                     | ≤30                  | PASS    |

## Appendix A.4: Maximum power spectral density

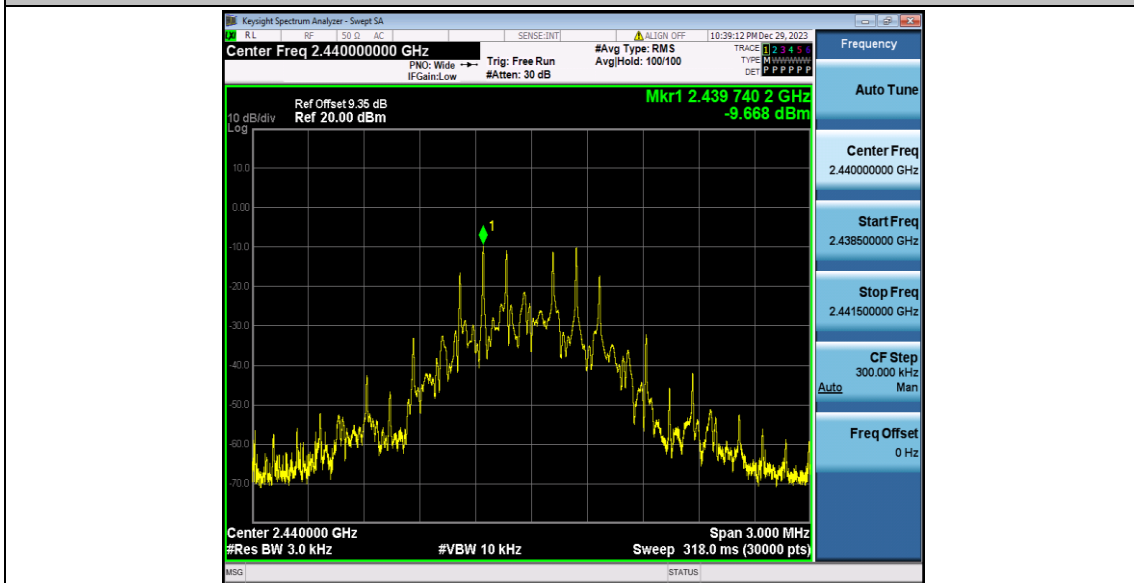
### Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| BLE       | Ant1    | 2402           | -10.64           | ≤8.00           | PASS    |
|           |         | 2440           | -9.67            | ≤8.00           | PASS    |
|           |         | 2480           | -9.93            | ≤8.00           | PASS    |

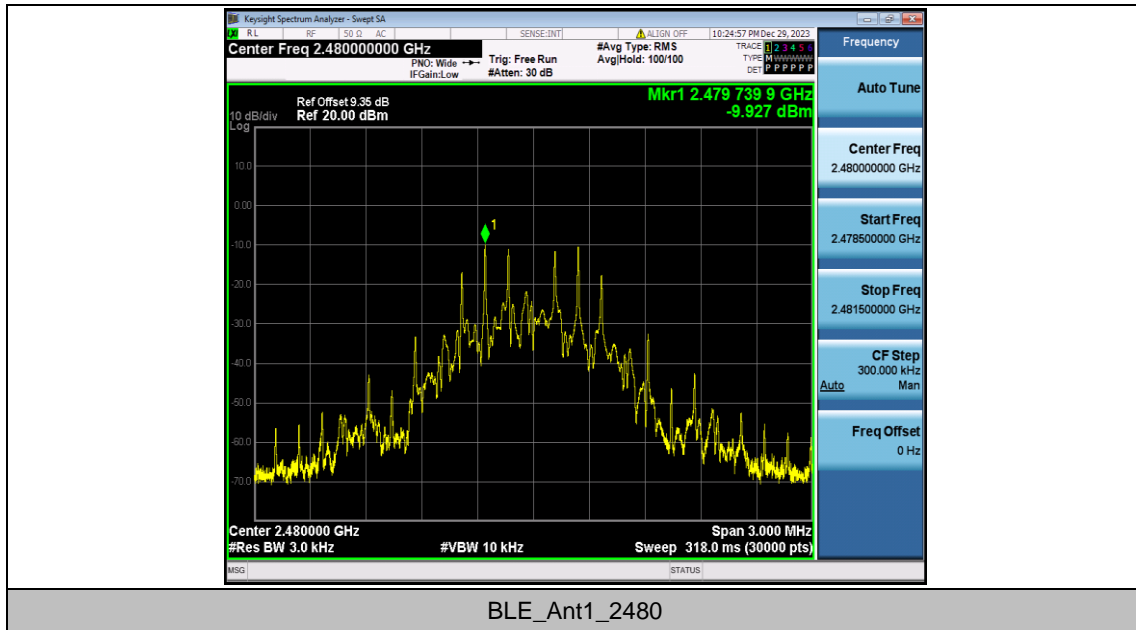
## Test Graphs



BLE\_Ant1\_2402



BLE\_Ant1\_2440



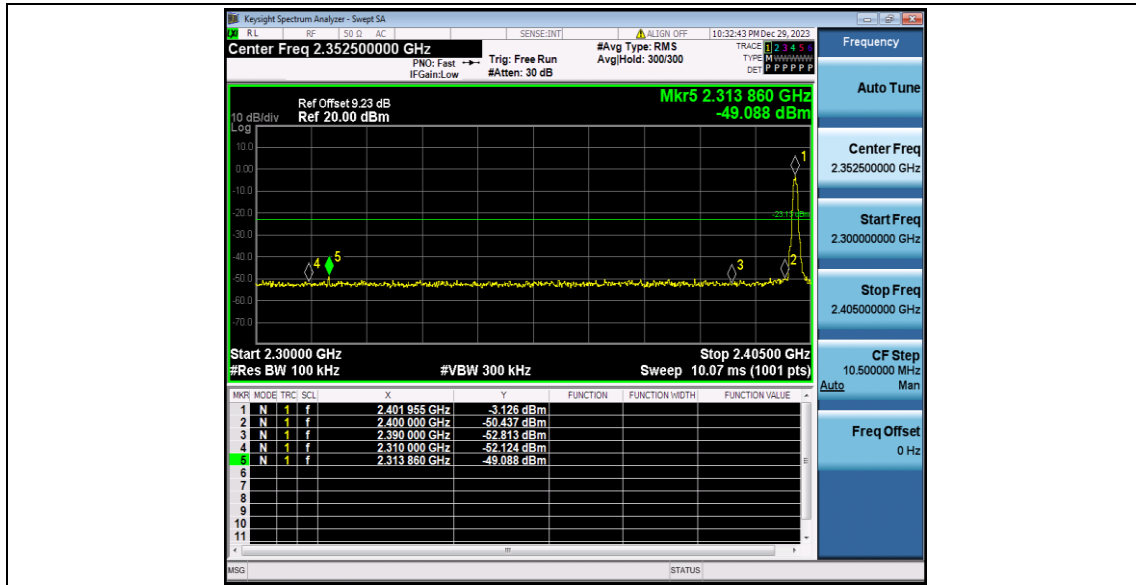


## Appendix A.5: Band edge measurements

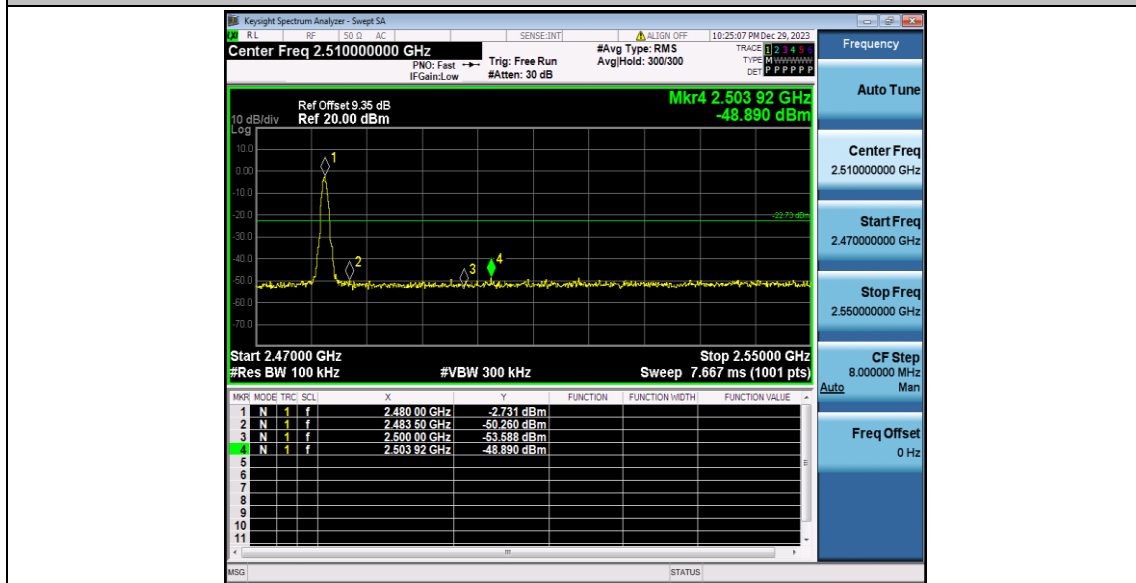
### Test Result

| Test Mode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|----------------|---------------|-------------|------------|---------|
| BLE       | Ant1    | Low    | 2402           | -3.13         | -49.09      | ≤-23.13    | PASS    |
|           |         | High   | 2480           | -2.73         | -48.89      | ≤-22.73    | PASS    |

## Test Graphs



BLE\_Ant1\_Low\_2402



BLE\_Ant1\_High\_2480

## Appendix A.6: Conducted Spurious Emission

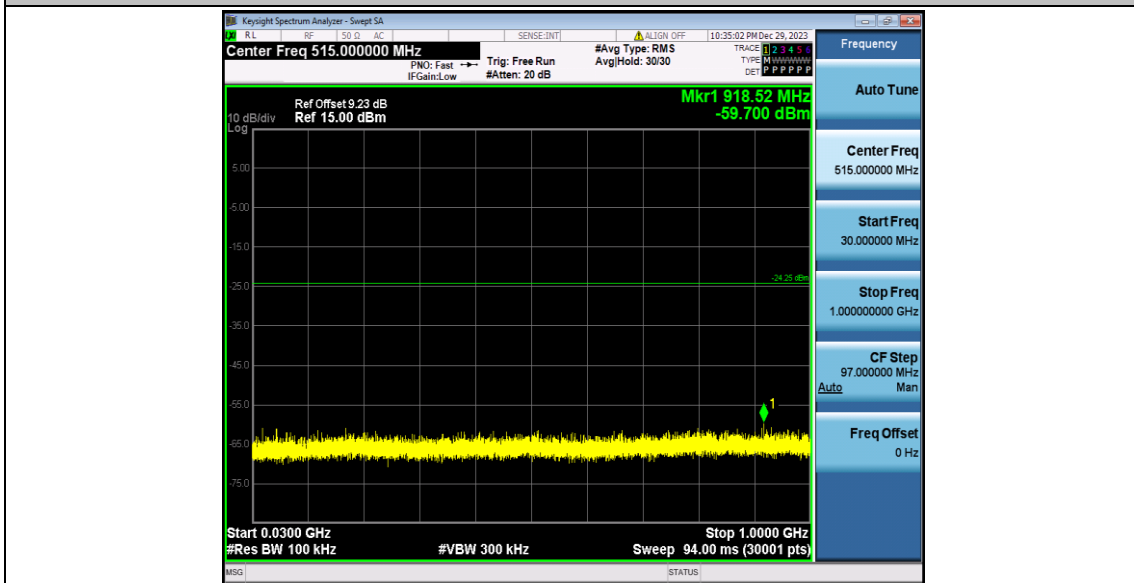
### Test Result

| Test Mode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|----------------|-----------------|----------------|-------------|---------------|---------|
| BLE       | Ant1    | 2402           | Reference       | -4.25          | -4.25       | ---           | PASS    |
|           |         |                | 30~1000         | -4.25          | -59.7       | $\leq -24.25$ | PASS    |
|           |         |                | 1000~26500      | -4.25          | -47.1       | $\leq -24.25$ | PASS    |
|           |         | 2440           | Reference       | -2.38          | -2.38       | ---           | PASS    |
|           |         |                | 30~1000         | -2.38          | -60.12      | $\leq -22.38$ | PASS    |
|           |         |                | 1000~26500      | -2.38          | -47.07      | $\leq -22.38$ | PASS    |
|           |         | 2480           | Reference       | -4.81          | -4.81       | ---           | PASS    |
|           |         |                | 30~1000         | -4.81          | -59.36      | $\leq -24.81$ | PASS    |
|           |         |                | 1000~26500      | -4.81          | -47.06      | $\leq -24.81$ | PASS    |

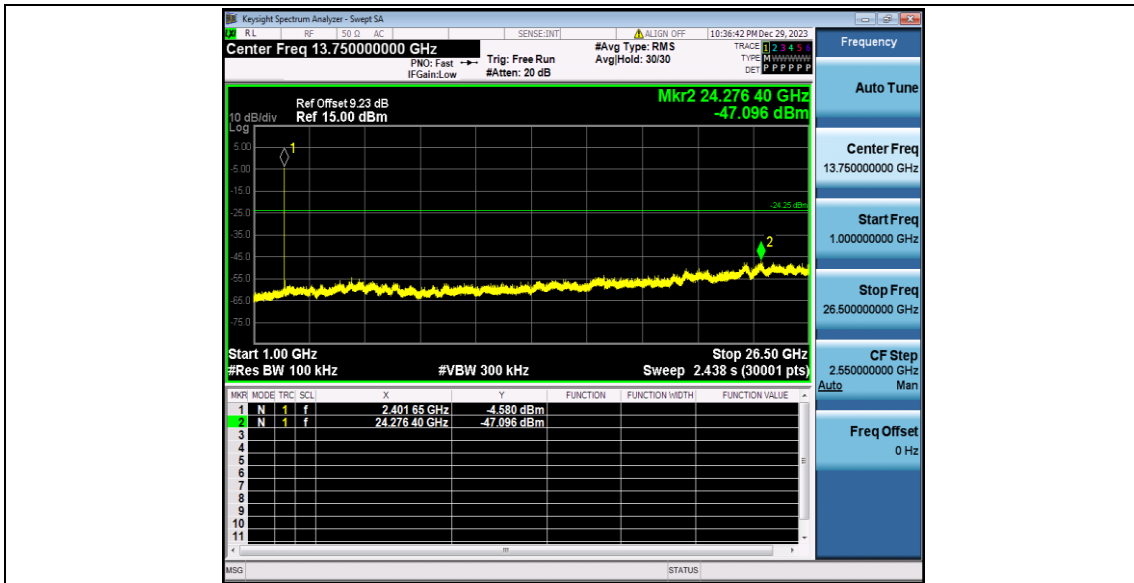
## Test Graphs



BLE\_Ant1\_2402\_0~Reference



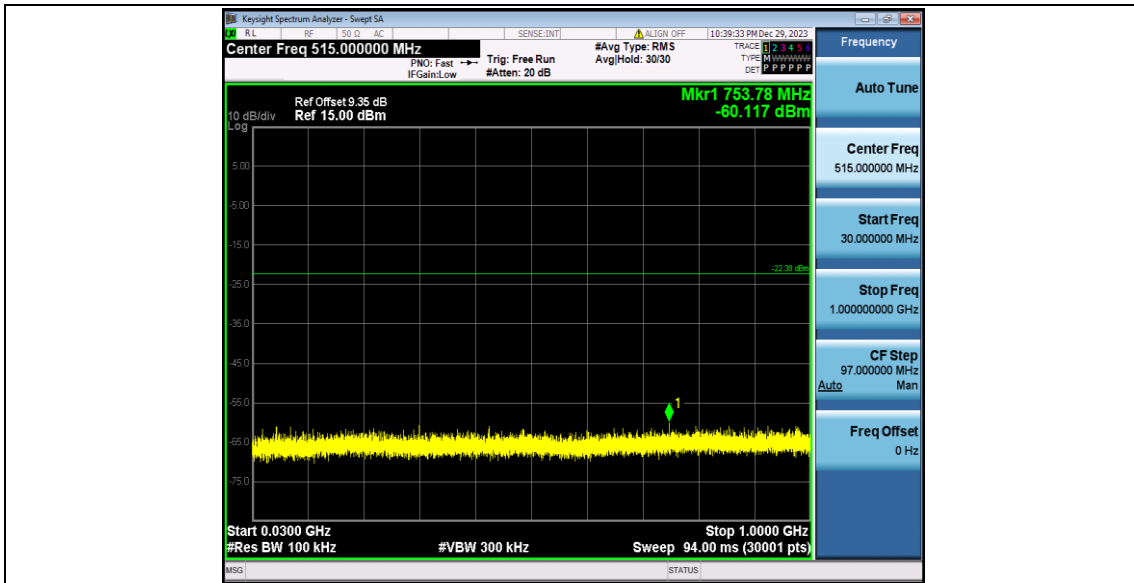
BLE\_Ant1\_2402\_30~1000



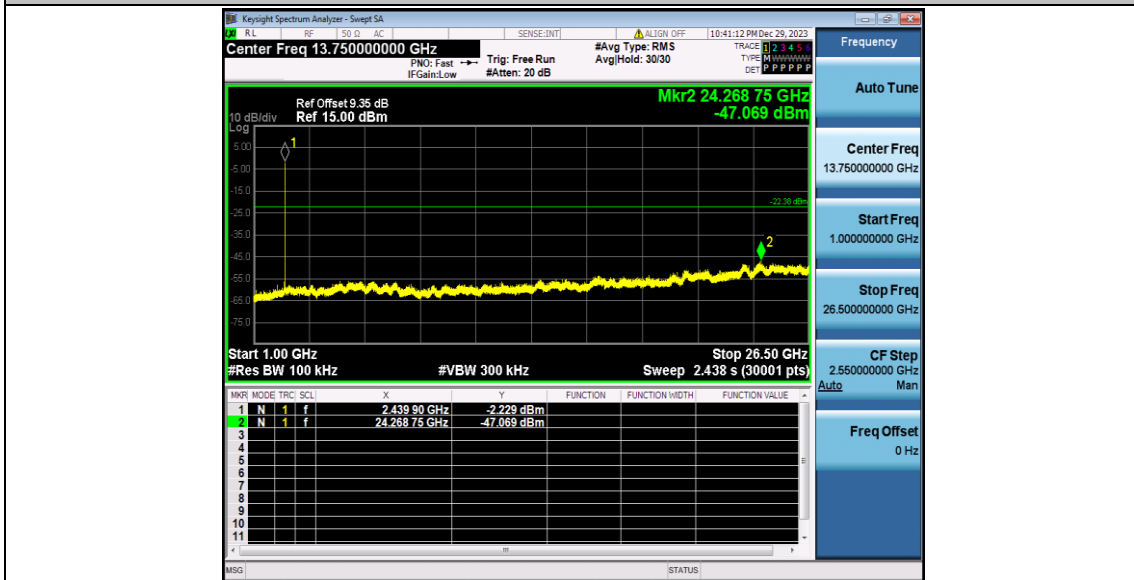
BLE\_Ant1\_2402\_1000~26500



BLE\_Ant1\_2440\_0~Reference



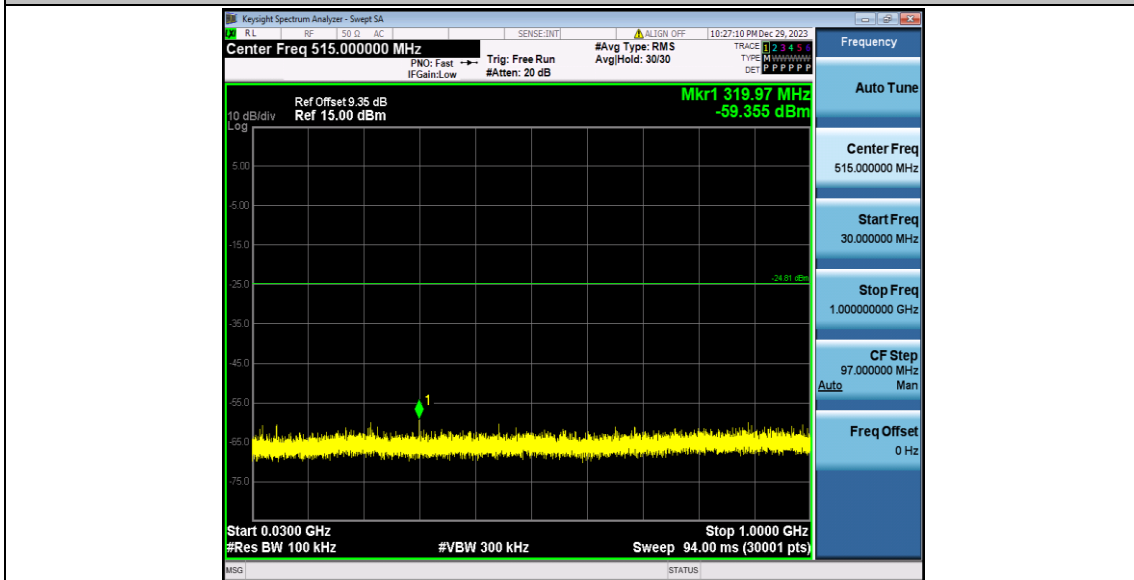
BLE\_Ant1\_2440\_30~1000



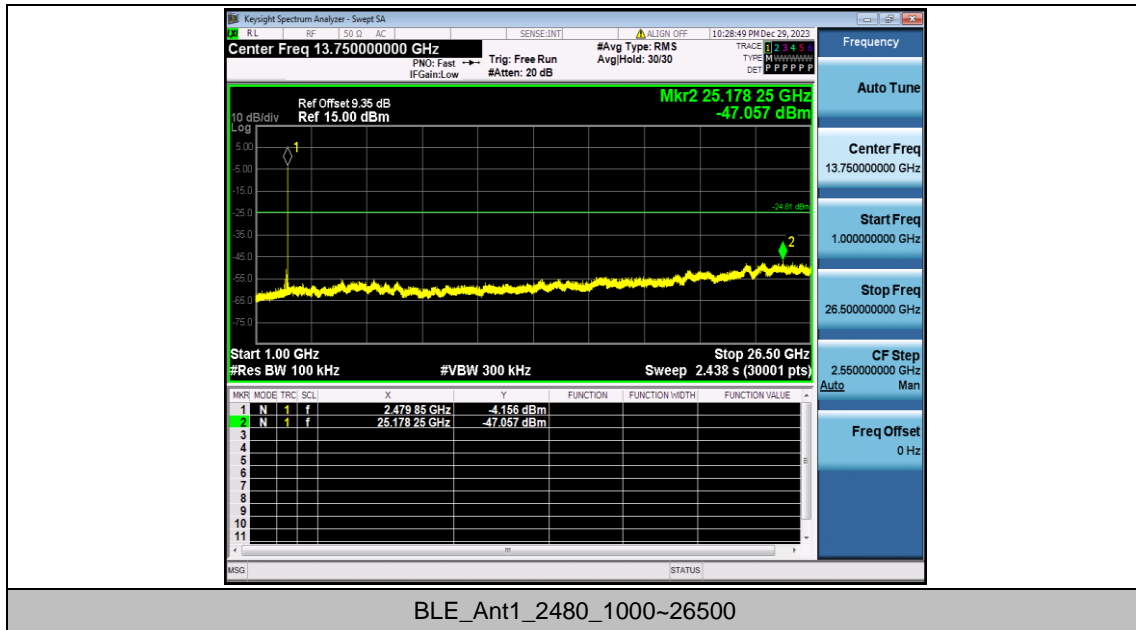
BLE\_Ant1\_2440\_1000~26500



BLE\_Ant1\_2480\_0~Reference



BLE\_Ant1\_2480\_30~1000





## Appendix A.7: Emissions in Restricted Bands

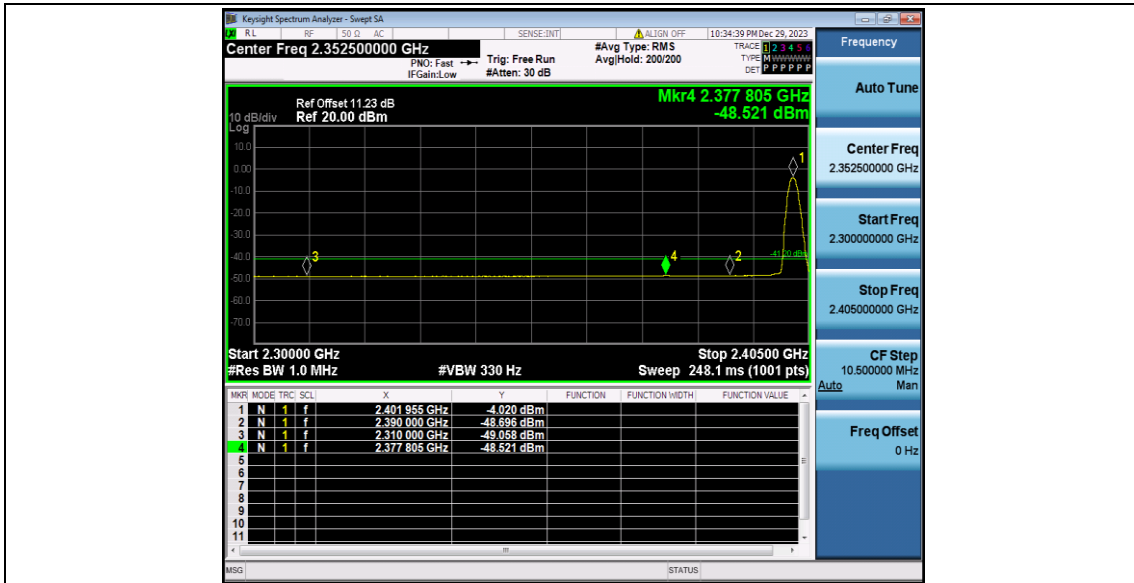
### Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|-----------|---------|--------|-----------------|----------|------------|--------------|-------------|-----------------|----------------|---------|
| BLE       | Ant1    | Low    | 2402            | AV       | 2310.000   | -49.06       | ≤-41.20     | 46.14           | ≤54            | PASS    |
|           |         |        |                 | AV       | 2377.805   | -48.52       | ≤-41.20     | 46.68           | ≤54            | PASS    |
|           |         |        |                 | AV       | 2390.000   | -48.7        | ≤-41.20     | 46.50           | ≤54            | PASS    |
|           |         |        |                 | Peak     | 2310.000   | -41.3        | ≤-21.20     | 53.90           | ≤74            | PASS    |
|           |         |        |                 | Peak     | 2340.740   | -38.47       | ≤-21.20     | 56.73           | ≤74            | PASS    |
|           |         |        |                 | Peak     | 2390.000   | -38.94       | ≤-21.20     | 56.26           | ≤74            | PASS    |
|           |         | High   | 2480            | AV       | 2483.500   | -47.73       | ≤-41.20     | 47.47           | ≤54            | PASS    |
|           |         |        |                 | AV       | 2483.520   | -47.73       | ≤-41.20     | 47.47           | ≤54            | PASS    |
|           |         |        |                 | AV       | 2500.000   | -48.39       | ≤-41.20     | 46.81           | ≤54            | PASS    |
|           |         |        |                 | Peak     | 2483.500   | -40.9        | ≤-21.20     | 54.30           | ≤74            | PASS    |
|           |         |        |                 | Peak     | 2483.920   | -37.3        | ≤-21.20     | 57.90           | ≤74            | PASS    |
|           |         |        |                 | Peak     | 2500.000   | -39.12       | ≤-21.20     | 56.08           | ≤74            | PASS    |

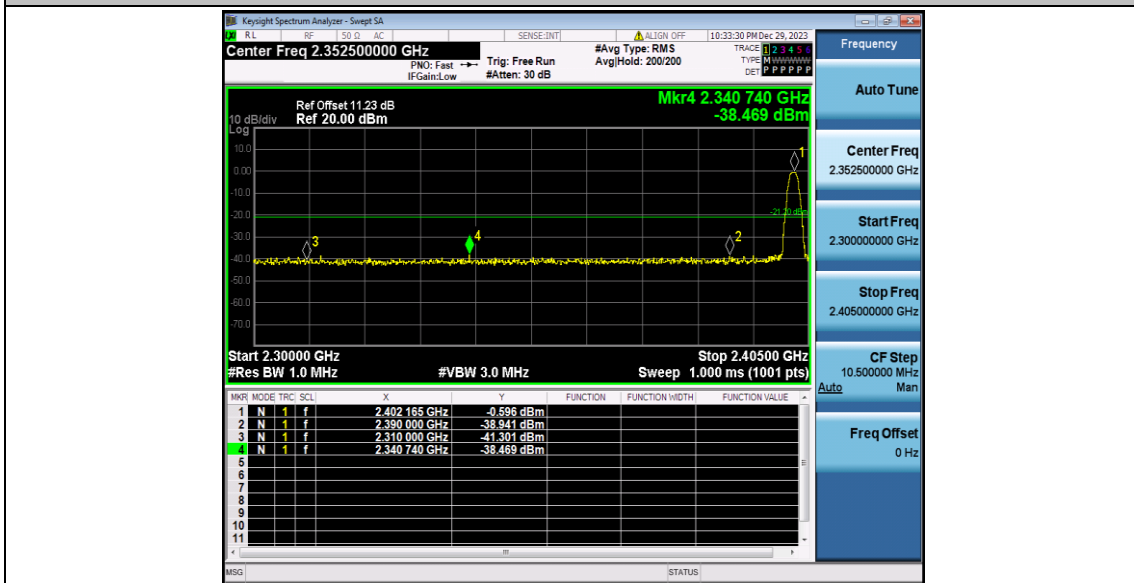
Note:

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.

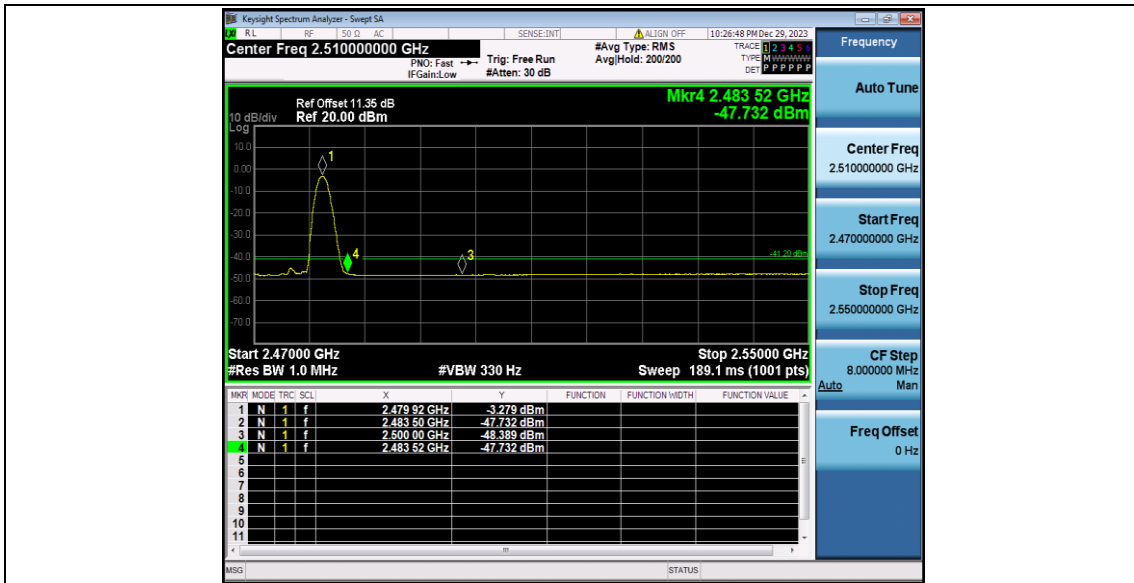
## Test Graphs



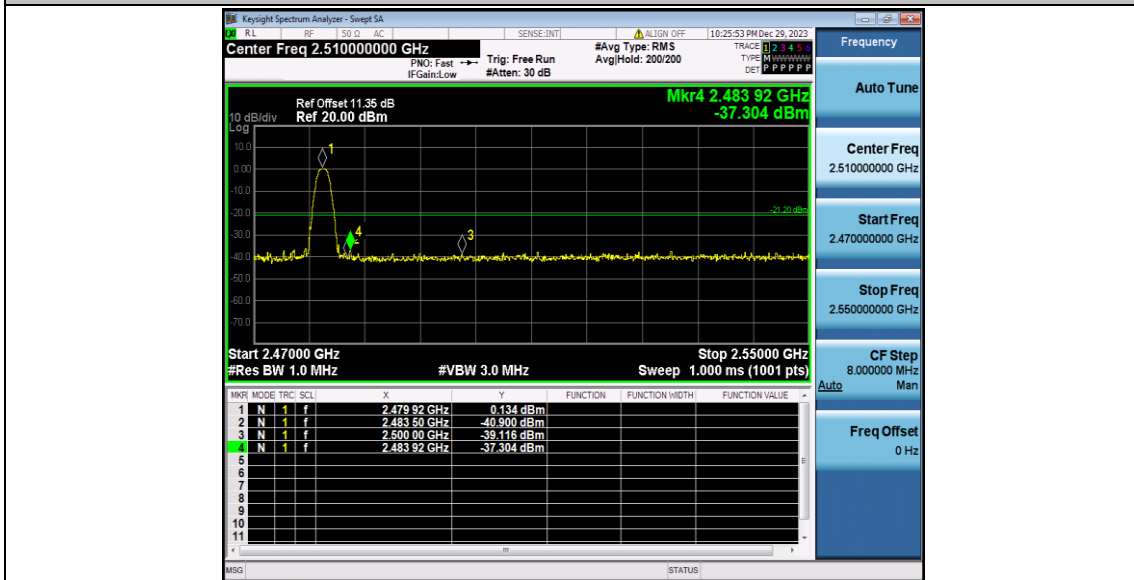
BLE\_Ant1\_Low\_2402\_AV



BLE\_Ant1\_Low\_2402\_Peak



BLE\_Ant1\_High\_2480\_AV



BLE\_Ant1\_High\_2480\_Peak