



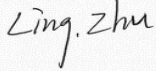

## Appendix B

### RF Test Data for BT LE V4.2 (DTS) (Conducted Measurement)

Product Name: Tablet

Test Model: 10LA1

#### Environmental Conditions

|                    |   |
|--------------------|---|
| Temperature:       | 22.5°C  |
| Relative Humidity: | 53.1%   |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | <br>Ling Zhu  |
| Supervised by:     | <br>Li Huan |



## B.1 DTS Bandwidth

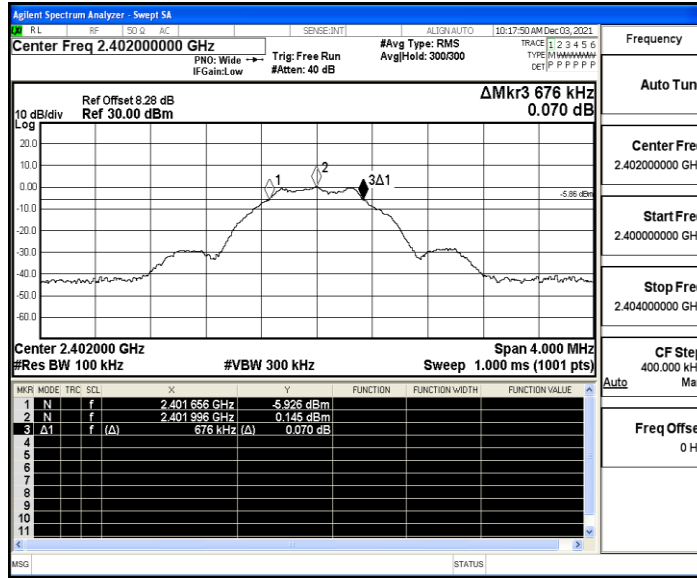
### Test Result

| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.676        | 2401.656 | 2402.332 | ≥0.5       | PASS    |
|          |         | 2440    | 0.708        | 2439.640 | 2440.348 | ≥0.5       | PASS    |
|          |         | 2480    | 0.688        | 2479.644 | 2480.332 | ≥0.5       | PASS    |

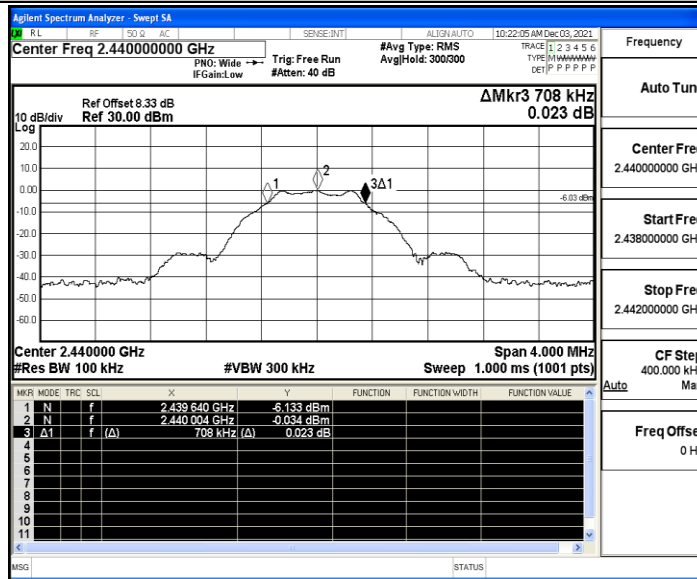


### Test Graphs

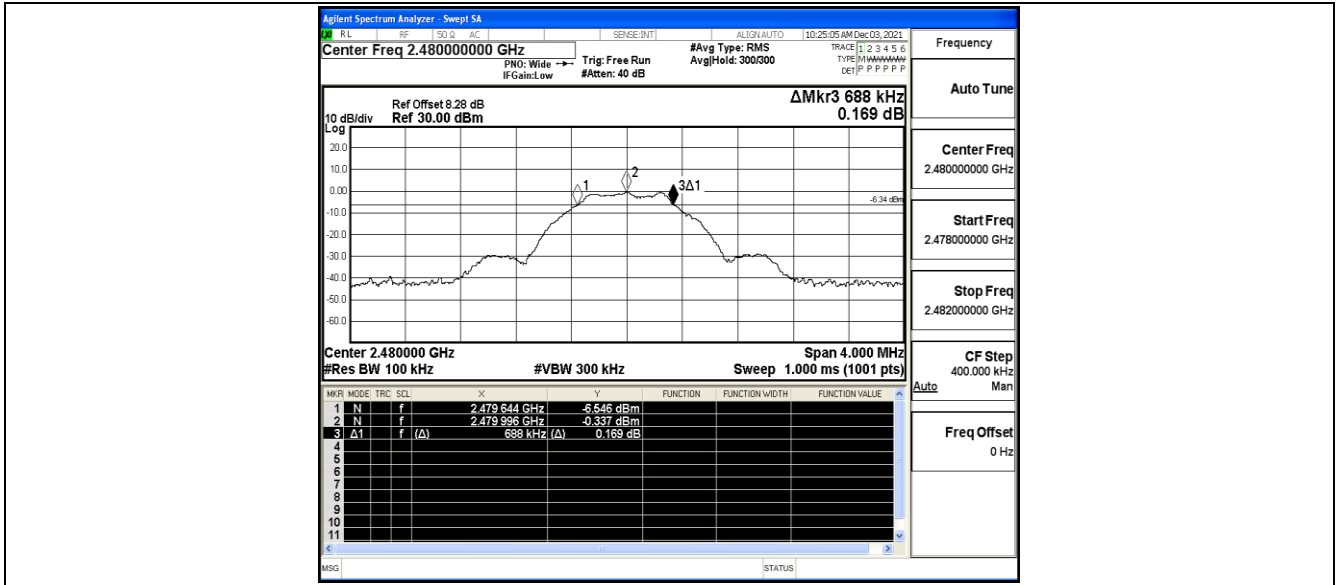
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480





## B.2 Maximum peak conducted output power

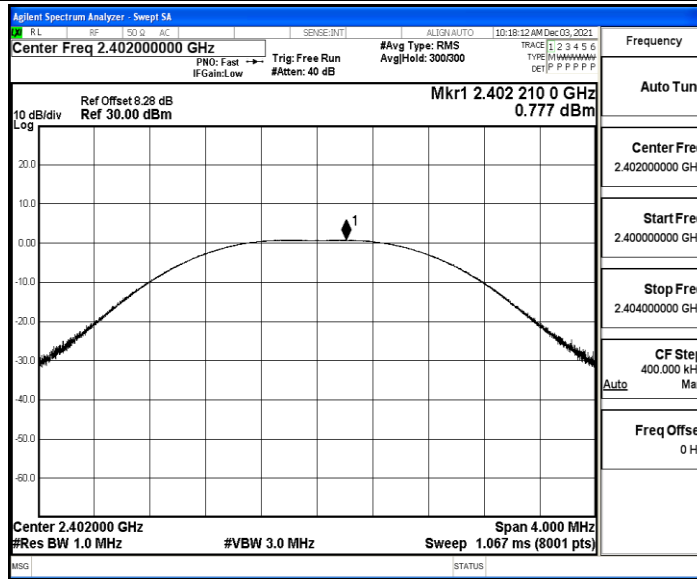
### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.78        | ≤30        | PASS    |
|          |         | 2440    | 0.77        | ≤30        | PASS    |
|          |         | 2480    | 0.37        | ≤30        | PASS    |

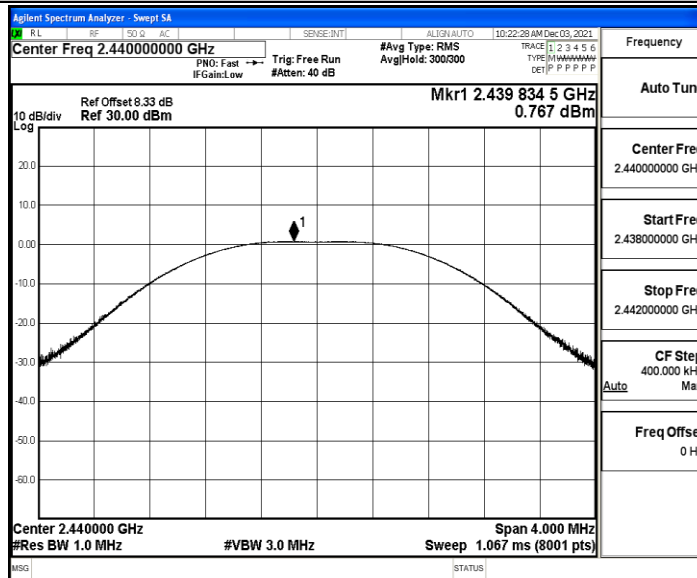


### Test Graphs

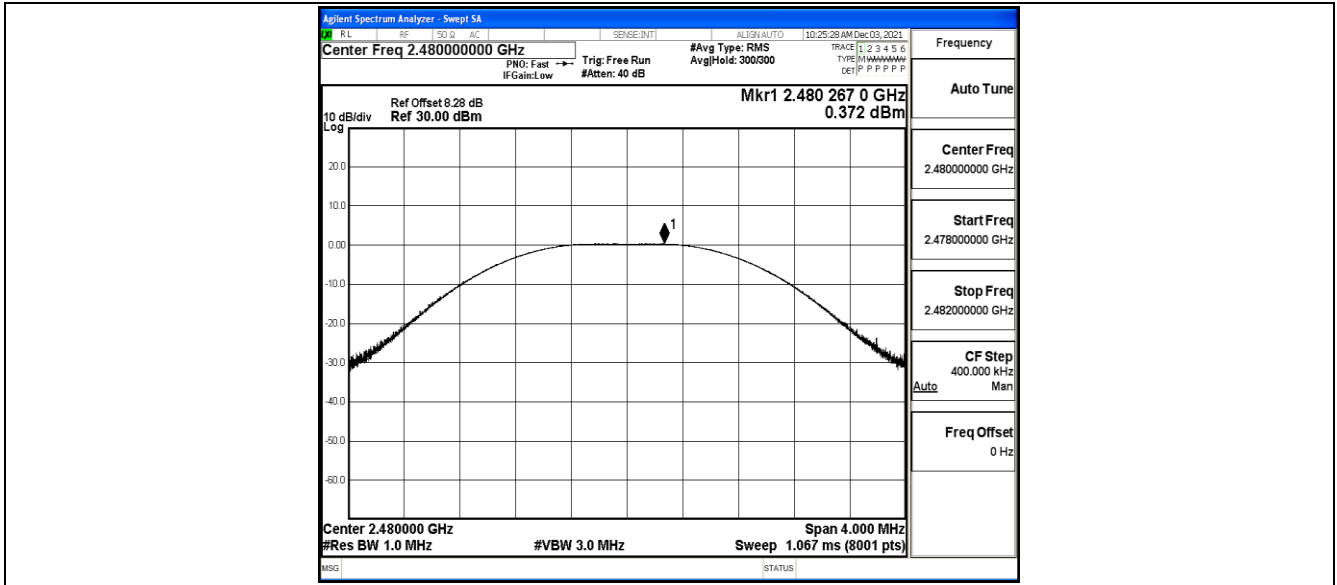
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480





### B.3 Maximum power spectral density

#### Test Result

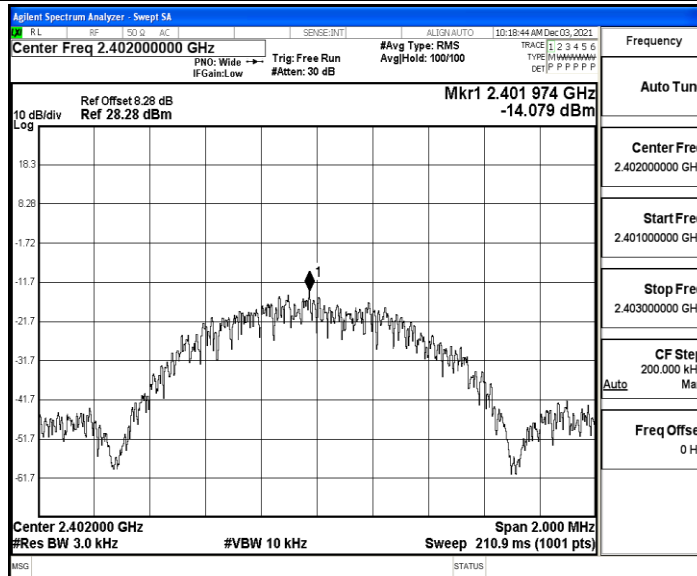
| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -14.08           | ≤8              | PASS    |
|          |         | 2440    | -14.10           | ≤8              | PASS    |
|          |         | 2480    | -14.43           | ≤8              | PASS    |



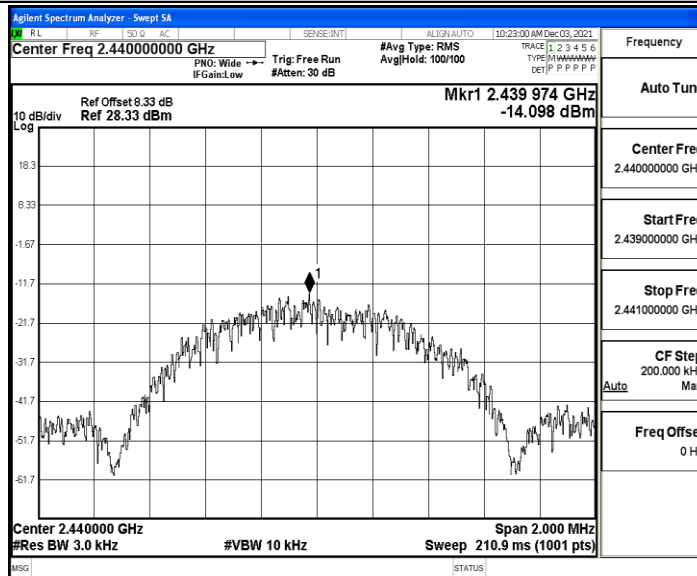


### Test Graphs

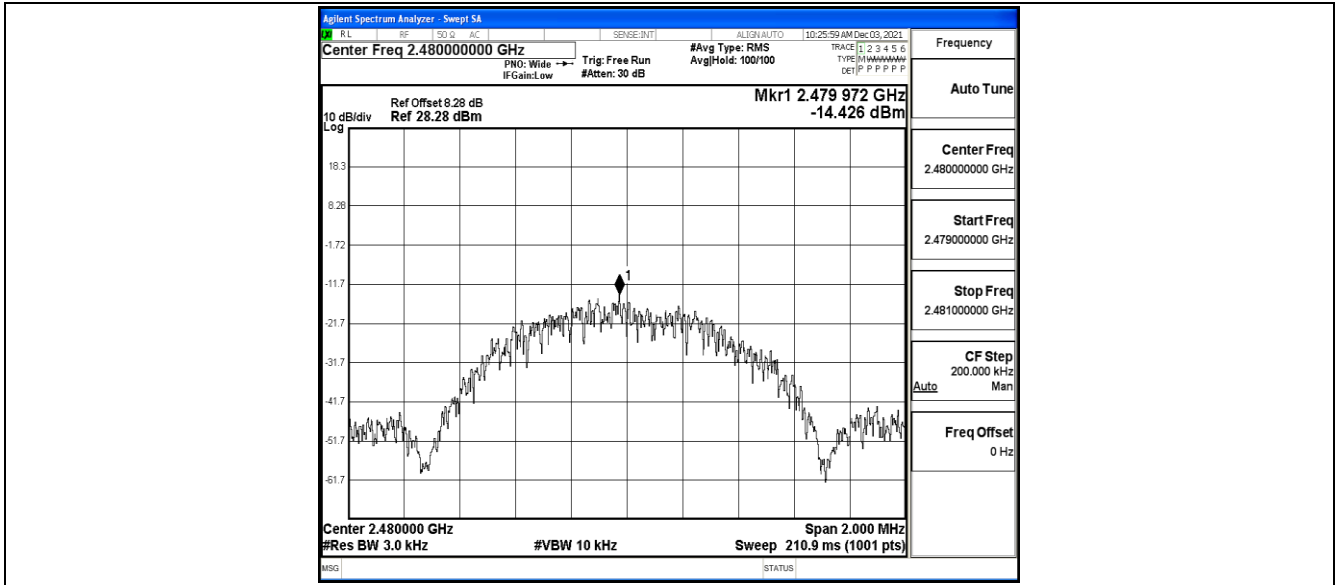
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480





## B.4 Band edge measurements

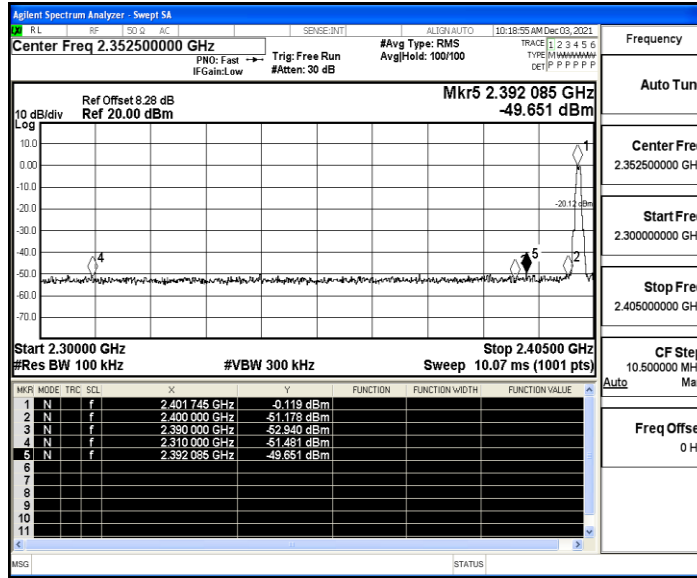
### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | -0.12         | -49.65      | ≤-20.12    | PASS    |
|          |         | High   | 2480    | -0.21         | -48.57      | ≤-20.21    | PASS    |

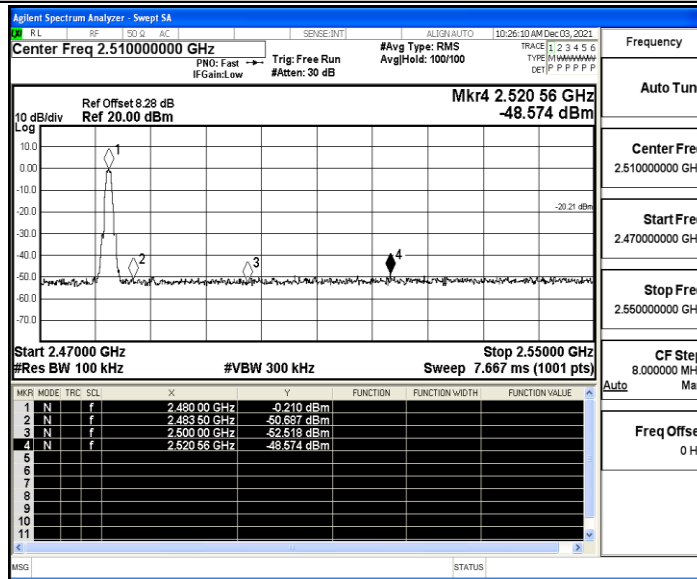


### Test Graphs

BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480





## B.5 Conducted Spurious Emission

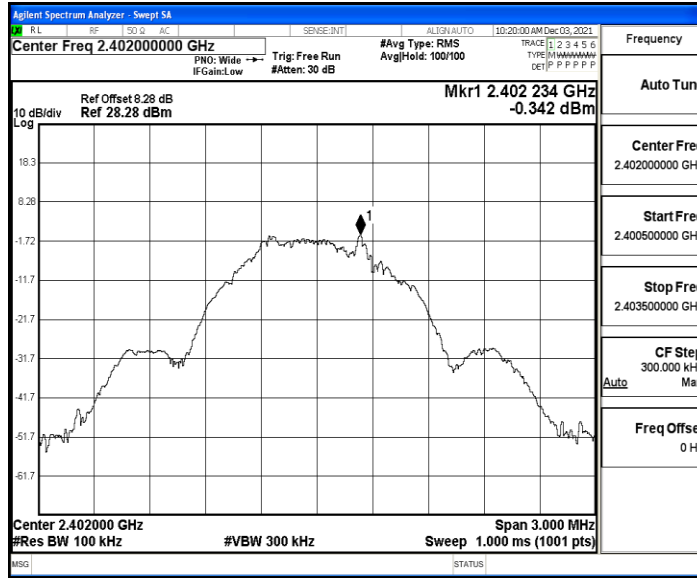
### Test Result

| TestMode | Antenna | Channel | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference       | -0.34          | -0.34       | ---        | PASS    |
|          |         |         | 30~1000         | -0.34          | -61.42      | ≤-20.34    | PASS    |
|          |         |         | 1000~26500      | -0.34          | -46.85      | ≤-20.34    | PASS    |
|          |         | 2440    | Reference       | 0.07           | 0.07        | ---        | PASS    |
|          |         |         | 30~1000         | 0.07           | -60.75      | ≤-19.93    | PASS    |
|          |         |         | 1000~26500      | 0.07           | -46.54      | ≤-19.93    | PASS    |
|          |         | 2480    | Reference       | -0.29          | -0.29       | ---        | PASS    |
|          |         |         | 30~1000         | -0.29          | -60.79      | ≤-20.29    | PASS    |
|          |         |         | 1000~26500      | -0.29          | -46.94      | ≤-20.29    | PASS    |

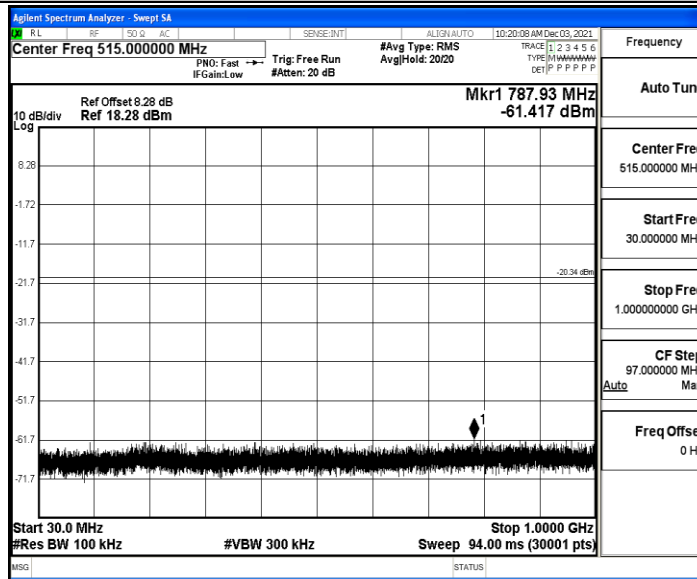


### Test Graphs

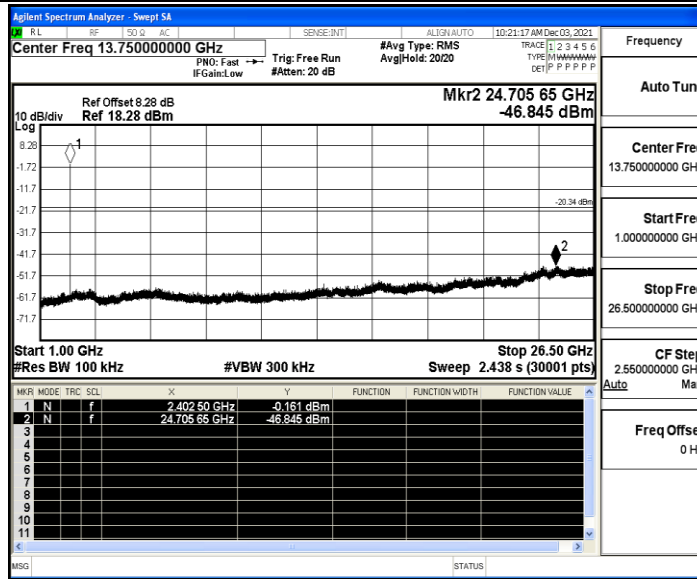
BLE\_1M\_Ant1\_2402\_0~Reference



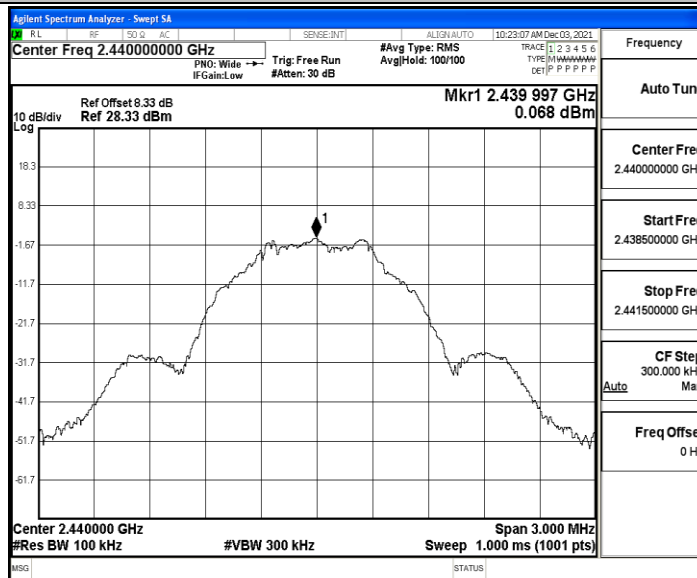
BLE\_1M\_Ant1\_2402\_30~1000



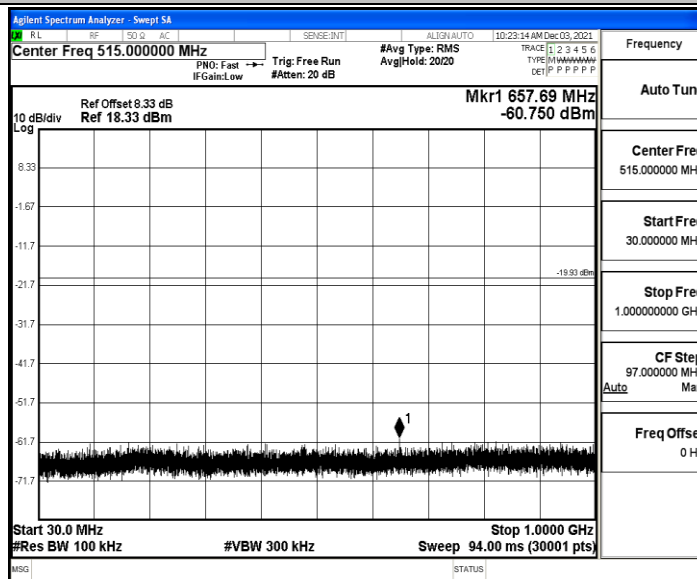
BLE\_1M\_Ant1\_2402\_1000~26500



BLE\_1M\_Ant1\_2440\_0~Reference

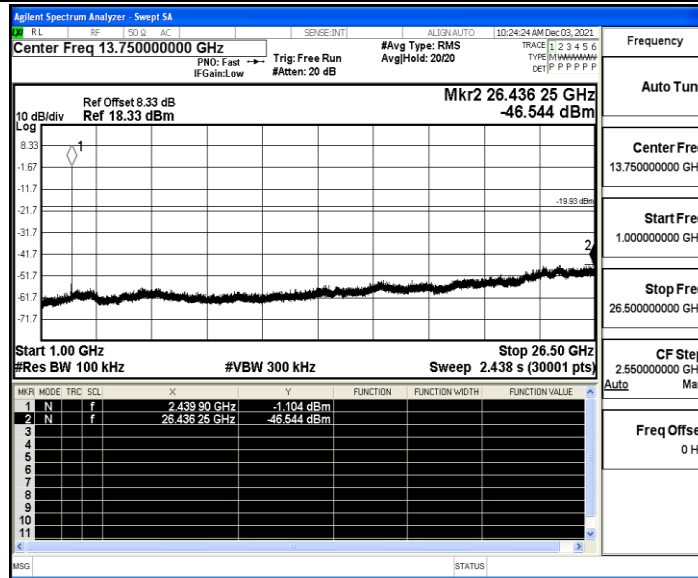


BLE\_1M\_Ant1\_2440\_30~1000

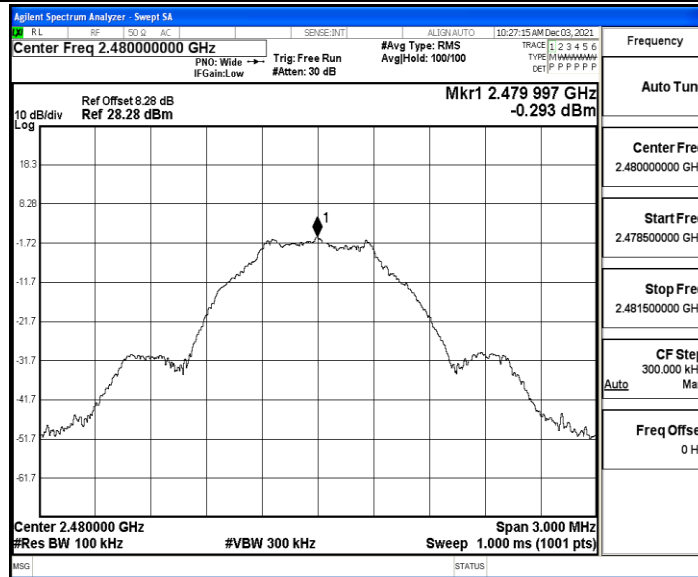




BLE\_1M\_Ant1\_2440\_1000~26500

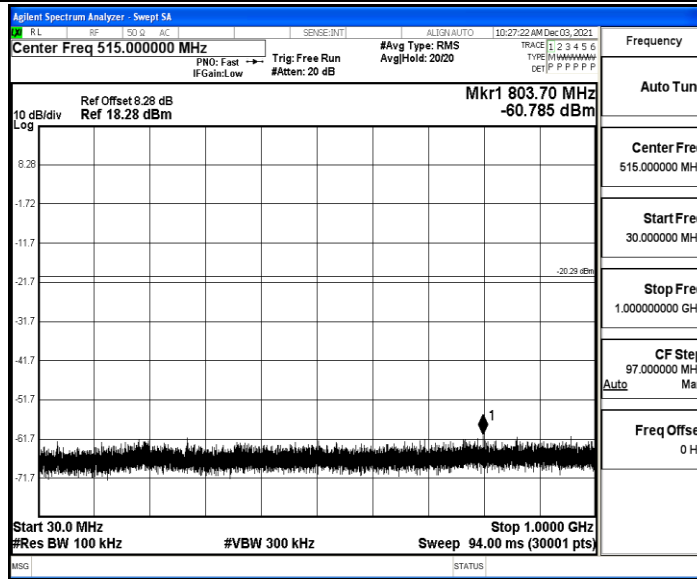


BLE\_1M\_Ant1\_2480\_0~Reference

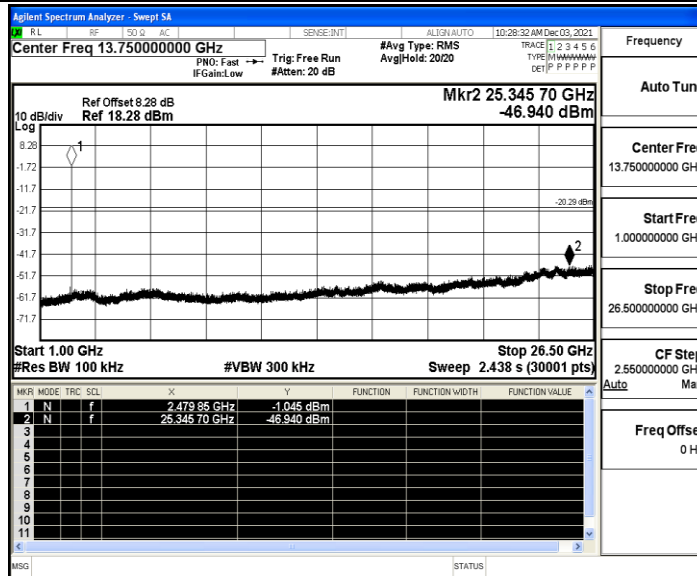


BLE\_1M\_Ant1\_2480\_30~1000





BLE\_1M\_Ant1\_2480\_1000~26500





## B.6 Duty Cycle

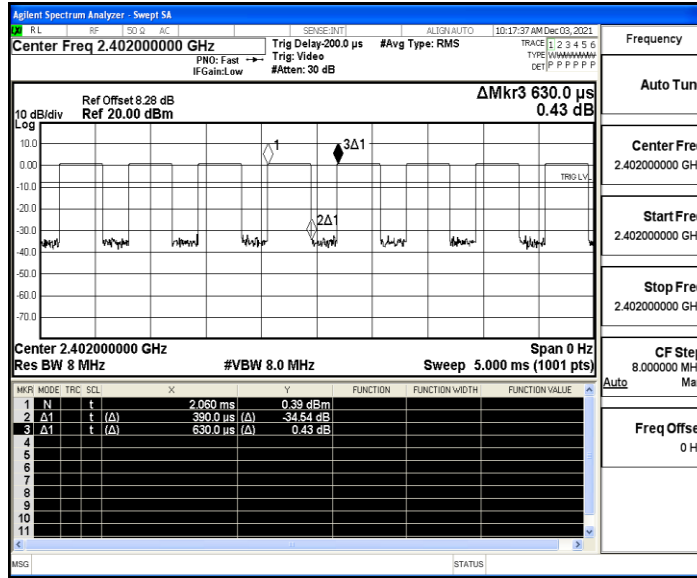
### Test Result

| TestMode | Antenna | Channel | ON Time [ms] | Period [ms] | X      | DC [%] | xFactor | Limit | Verdict |
|----------|---------|---------|--------------|-------------|--------|--------|---------|-------|---------|
| BLE_1M   | Ant1    | 2402    | 0.39         | 0.63        | 0.6190 | 61.90  | 2.08    | ---   | PASS    |
|          |         | 2440    | 0.39         | 0.63        | 0.6190 | 61.90  | 2.08    | ---   | PASS    |
|          |         | 2480    | 0.38         | 0.63        | 0.6032 | 60.32  | 2.20    | ---   | PASS    |

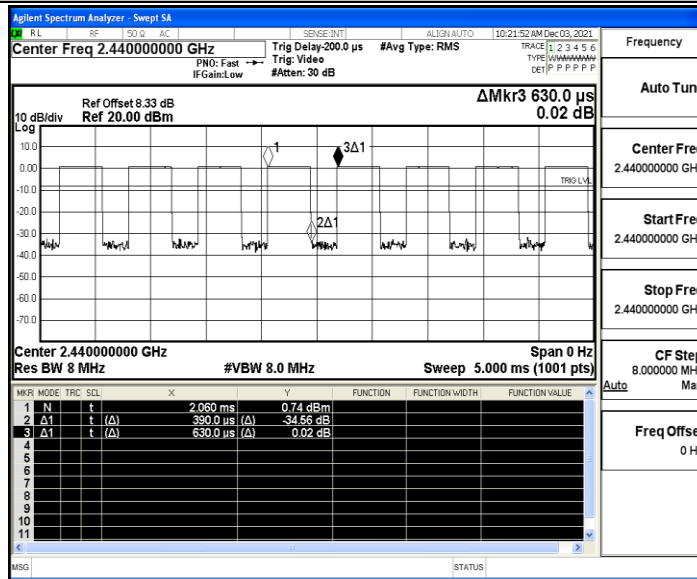


### Test Graphs

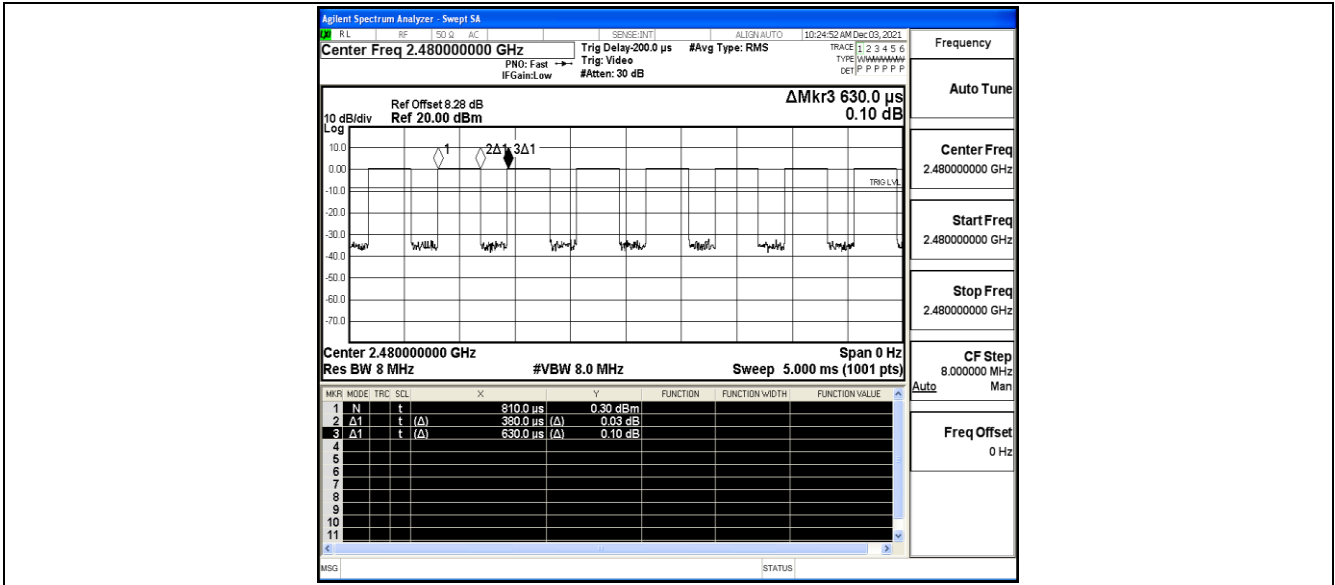
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480





## B.7 Emissions in Restricted Bands

### Test Result

| TestMode | Antenna | ChName | Channel | Detector | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|----------|---------|--------|---------|----------|-------------|--------------|-------------|-----------------|----------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | AV       | 2310.000    | -48.07       | ≤-41.20     | 47.13           | ≤54            | PASS    |
|          |         |        |         | AV       | 2388.515    | -47.3        | ≤-41.20     | 47.90           | ≤54            | PASS    |
|          |         |        |         | AV       | 2390.000    | -47.44       | ≤-41.20     | 47.76           | ≤54            | PASS    |
|          |         |        |         | Peak     | 2310.000    | -42.05       | ≤-21.20     | 53.15           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2374.970    | -38.92       | ≤-21.20     | 56.28           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2390.000    | -41.76       | ≤-21.20     | 53.44           | ≤74            | PASS    |
|          |         | High   | 2480    | AV       | 2483.500    | -46.91       | ≤-41.20     | 48.29           | ≤54            | PASS    |
|          |         |        |         | AV       | 2499.280    | -46.63       | ≤-41.20     | 48.57           | ≤54            | PASS    |
|          |         |        |         | AV       | 2500.000    | -47.05       | ≤-41.20     | 48.15           | ≤54            | PASS    |
|          |         |        |         | Peak     | 2483.500    | -40.34       | ≤-21.20     | 54.86           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2498.320    | -38.23       | ≤-21.20     | 56.97           | ≤74            | PASS    |
|          |         |        |         | Peak     | 2500.000    | -41.4        | ≤-21.20     | 53.80           | ≤74            | PASS    |

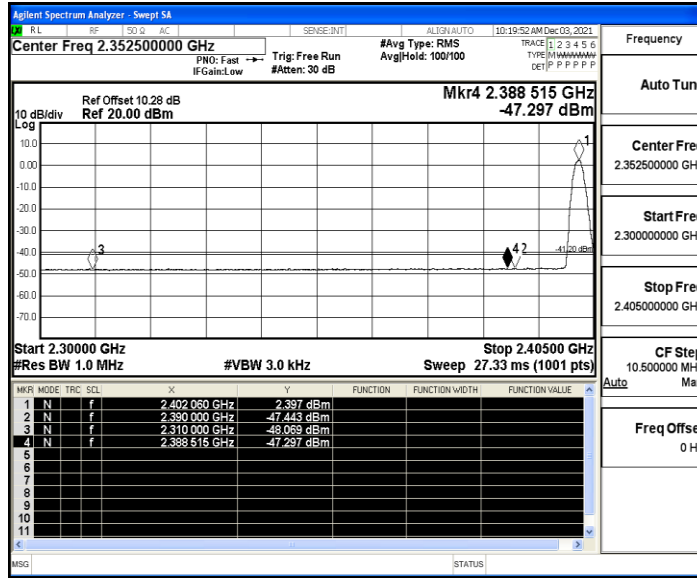
#### Note:

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.

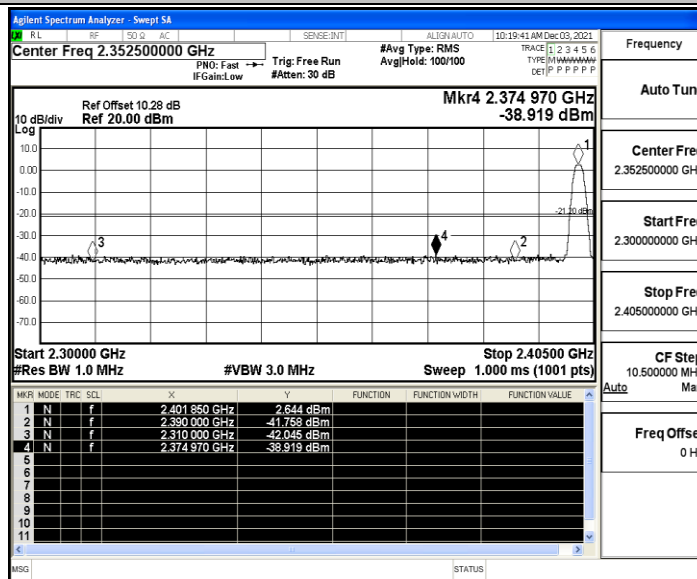


### Test Graphs

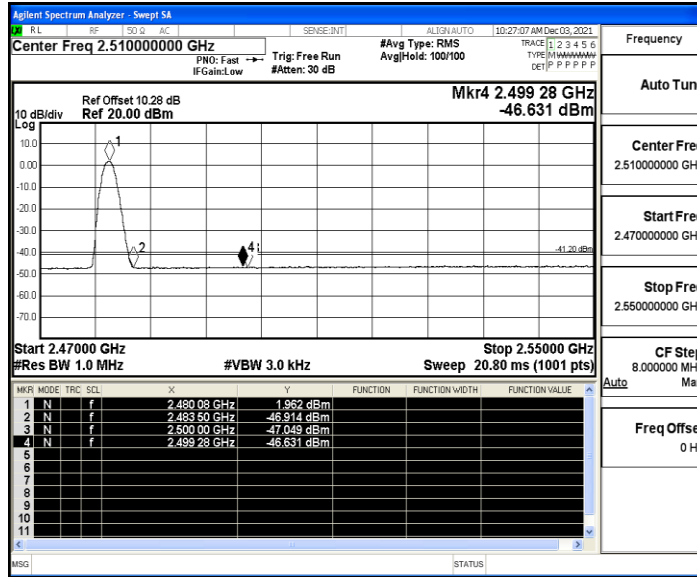
#### BLE\_1M\_Ant1\_Low\_2402\_AV



#### BLE\_1M\_Ant1\_Low\_2402\_Peak



#### BLE\_1M\_Ant1\_High\_2480\_AV



BLE\_1M\_Ant1\_High\_2480\_Peak

