

## Appendix A

### RF Test Data for BT LE V5.0 (Conducted Measurement)

Product Name: Smart Lock

Trade Mark: REVOLO

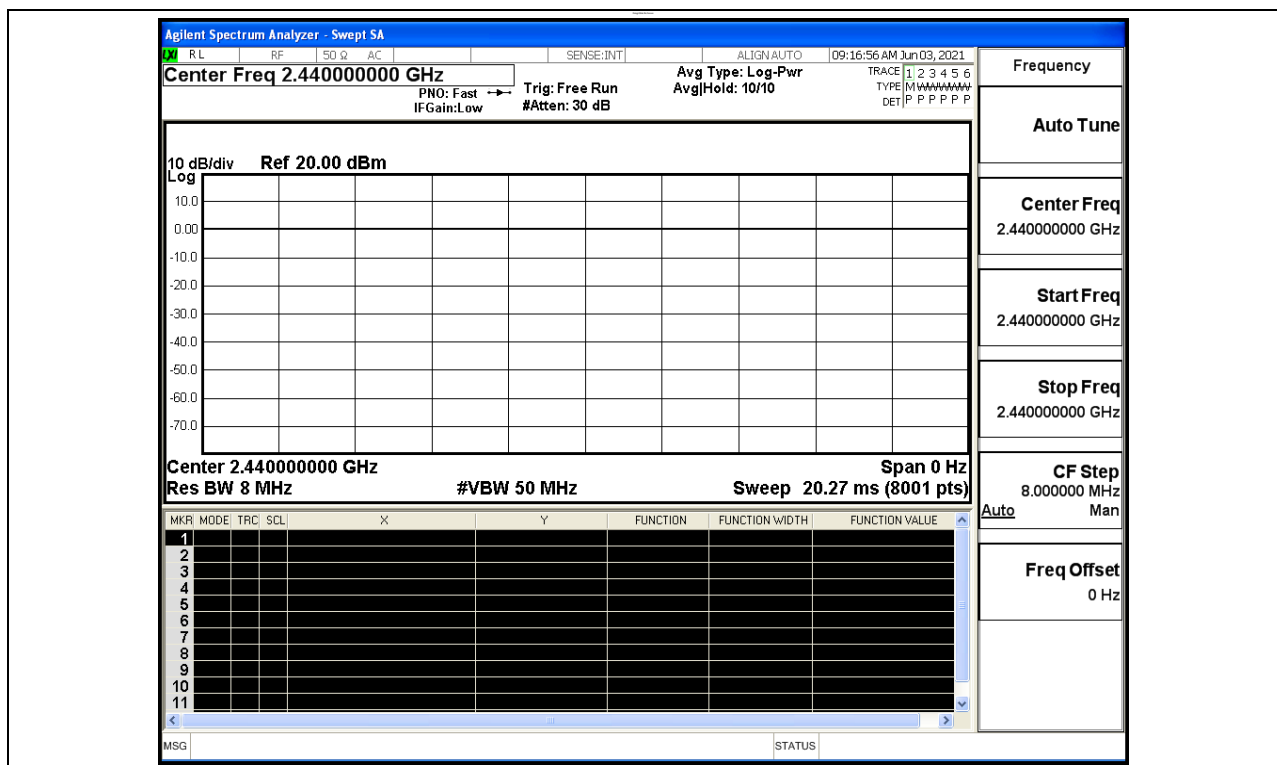
Test Model: WFP01

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.7° C   |
| Relative Humidity: | 51.6%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jay Li    |
| Supervised by:     | Li Huan   |

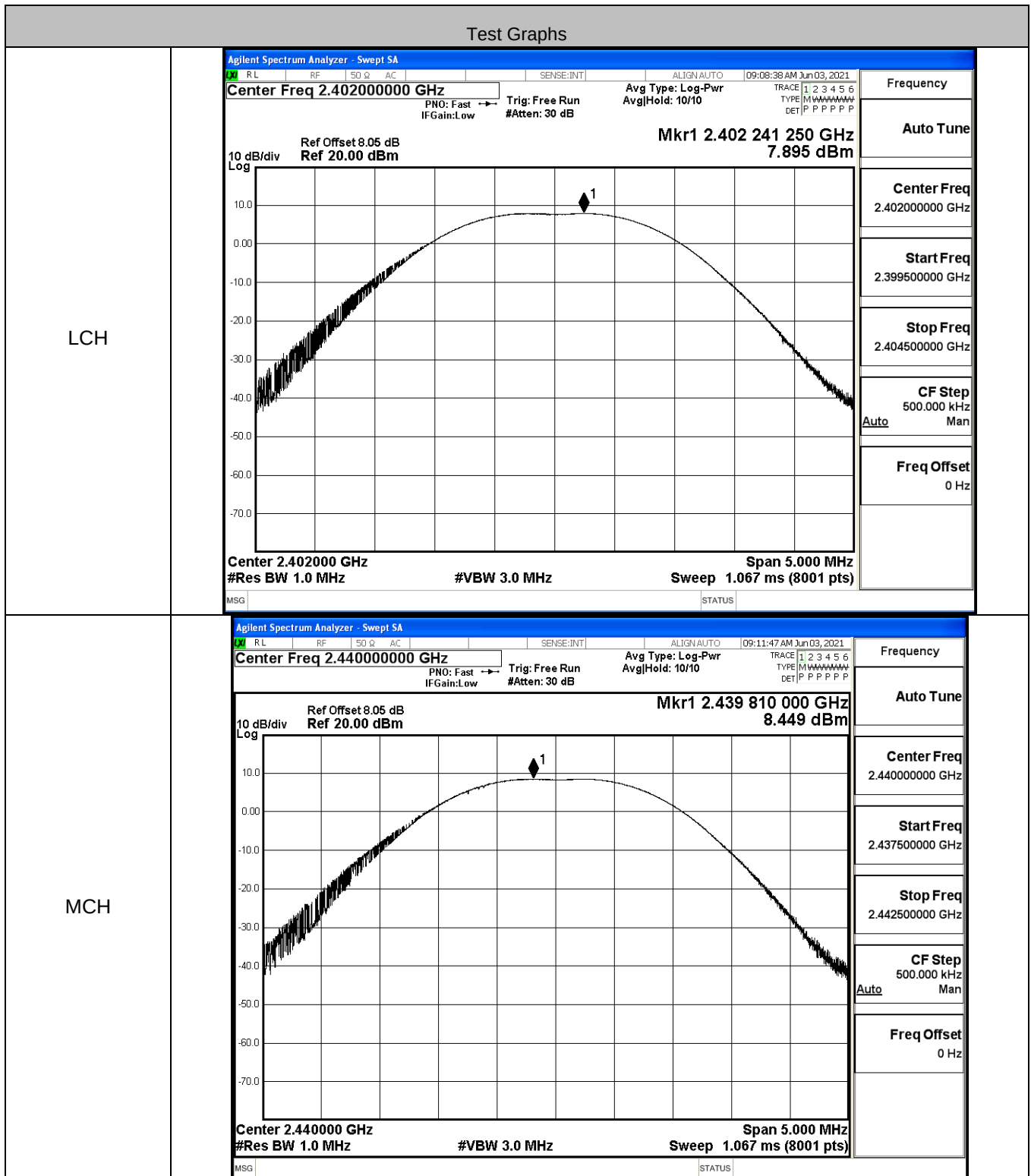
#### A.1 Duty Cycle

| Test Mode | Test Channel | Ant  | Duty Cycle[%] | Verdict |
|-----------|--------------|------|---------------|---------|
| BT LE     | 2440         | Ant1 | 100           | PASS    |



## A.2 Maximum Conducted Peak Output Power

| Mode  | Channel | Conduct Peak Power[dBm] | Limit [dBm] | Verdict |
|-------|---------|-------------------------|-------------|---------|
| BT LE | LCH     | 7.895                   | 30          | PASS    |
| BT LE | MCH     | 8.449                   | 30          | PASS    |
| BT LE | HCH     | 8.62                    | 30          | PASS    |



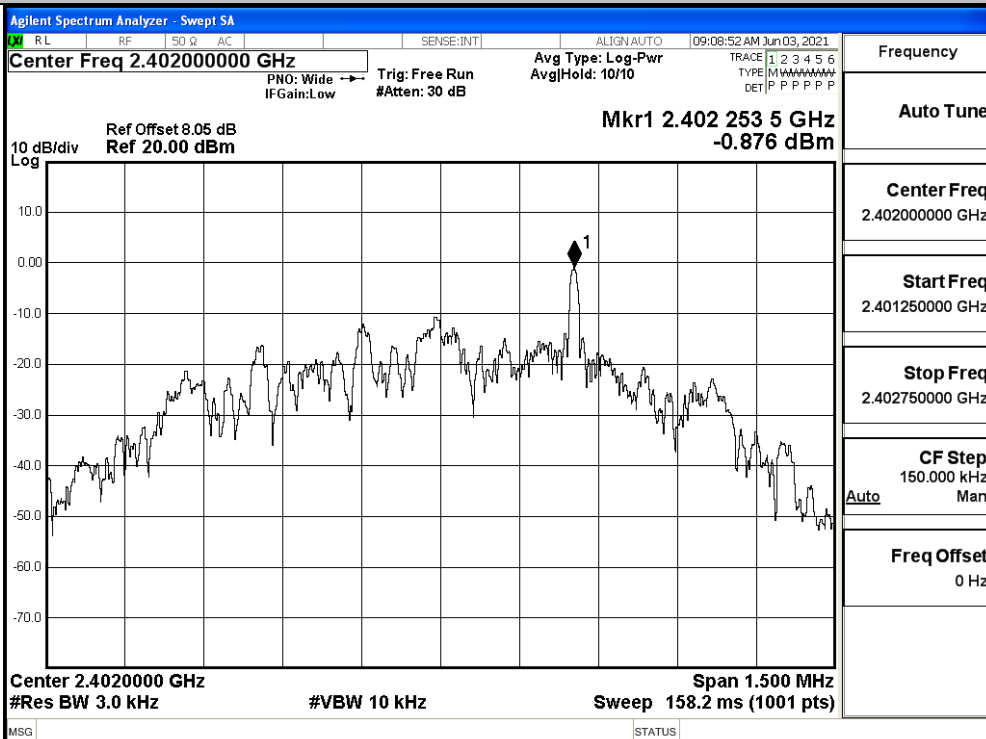


## A.3 Maximum Power Spectral Density

| Mode  | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-------|---------|----------------|------------------|---------|
| BT LE | LCH     | -0.876         | 8                | PASS    |
| BT LE | MCH     | -0.347         | 8                | PASS    |
| BT LE | HCH     | -0.212         | 8                | PASS    |

## Test Graphs

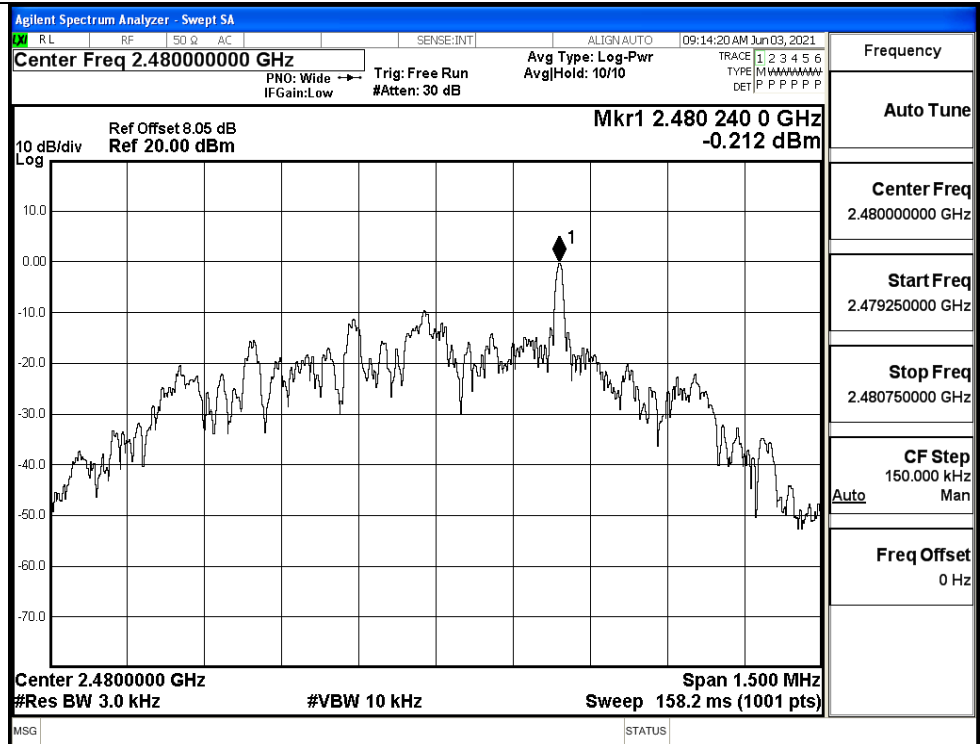
LCH



MCH



HCH

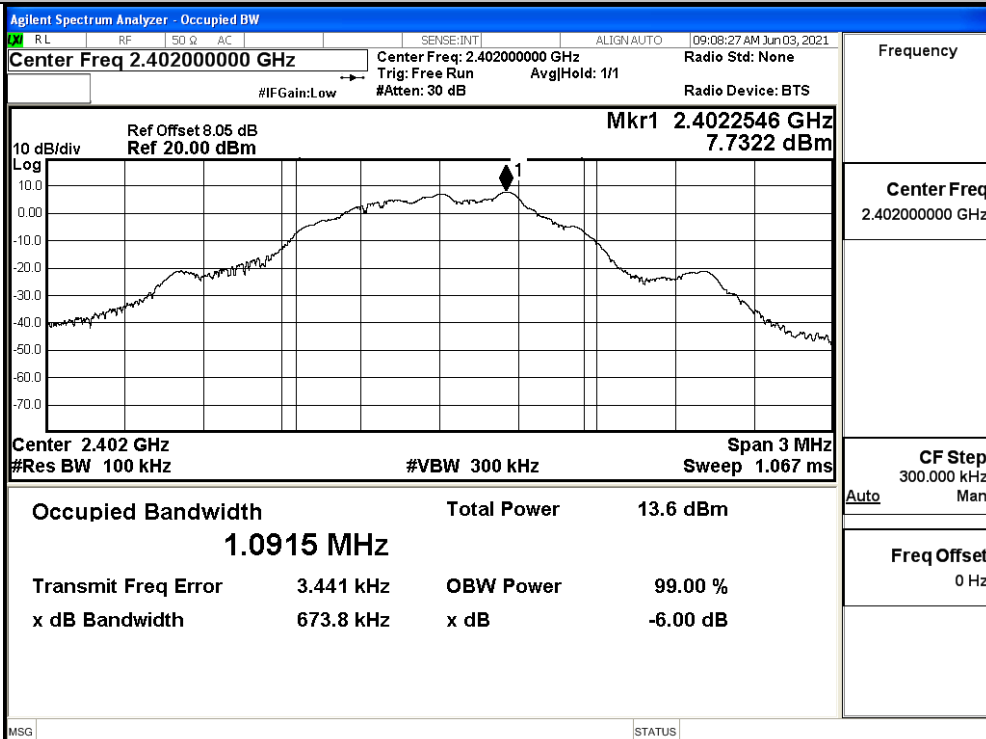


## A.4 6dB Bandwidth

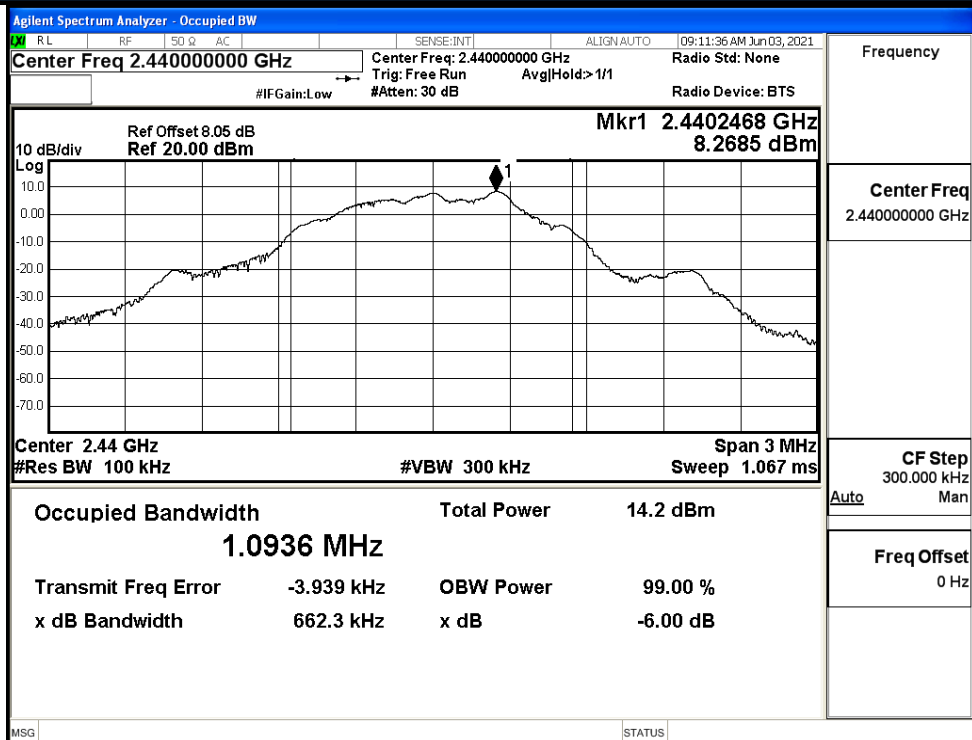
| Mode  | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-------|---------|---------------------|-------------|---------|
| BT LE | LCH     | 0.6738              | $\geq 0.5$  | PASS    |
| BT LE | MCH     | 0.6623              | $\geq 0.5$  | PASS    |
| BT LE | HCH     | 0.6647              | $\geq 0.5$  | PASS    |

## Test Graphs

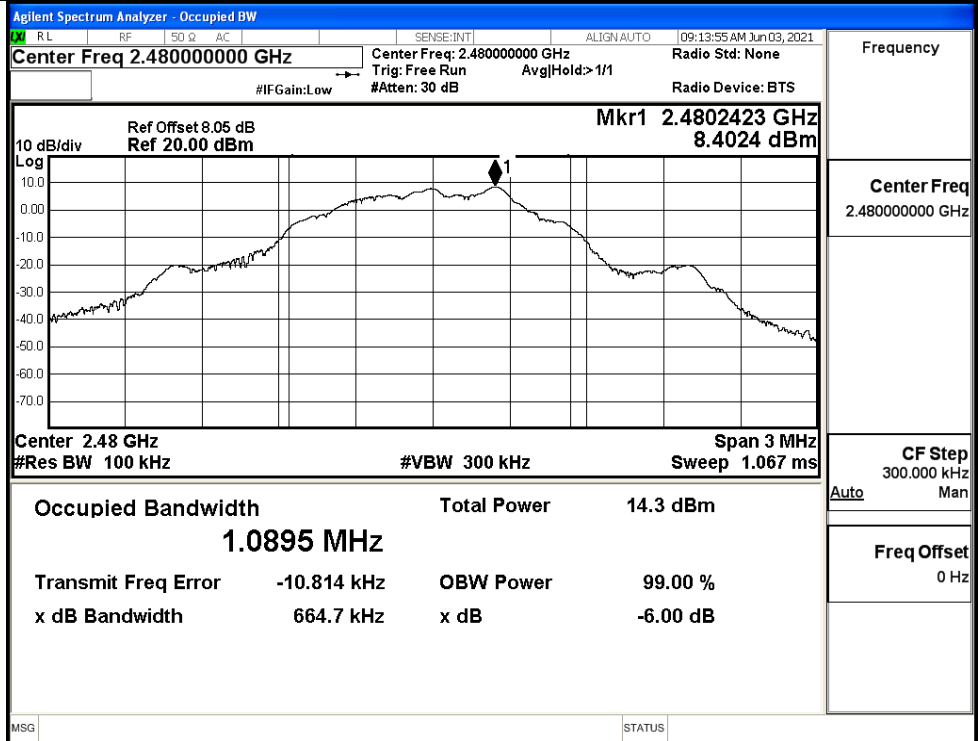
LCH



MCH



HCH

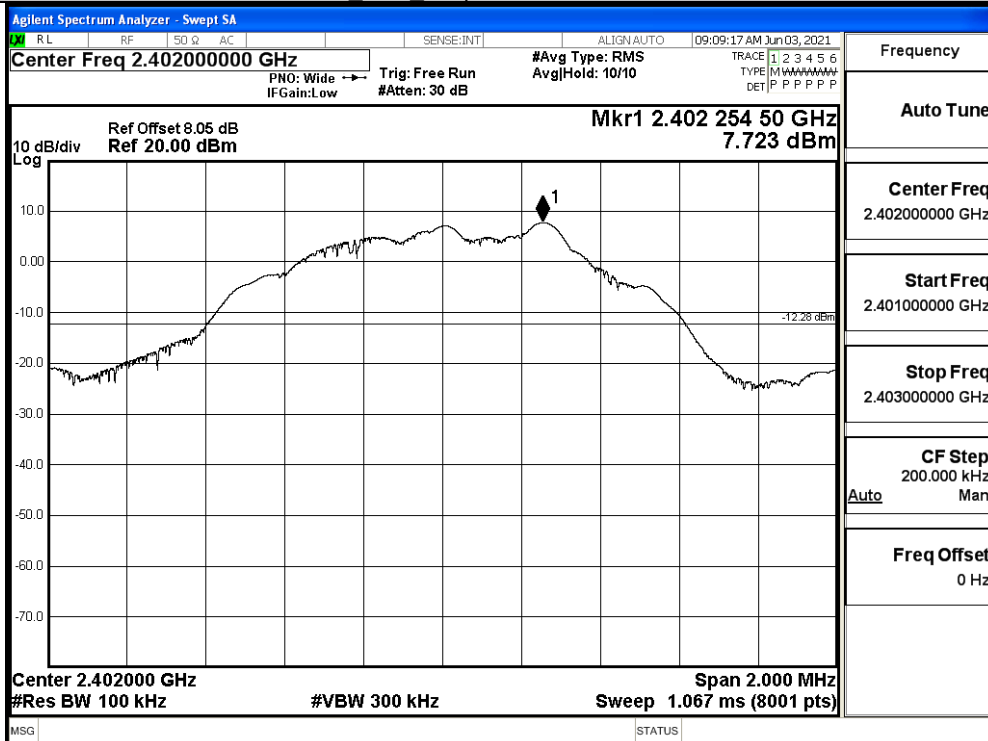


## A.5 RF Conducted Spurious Emissions

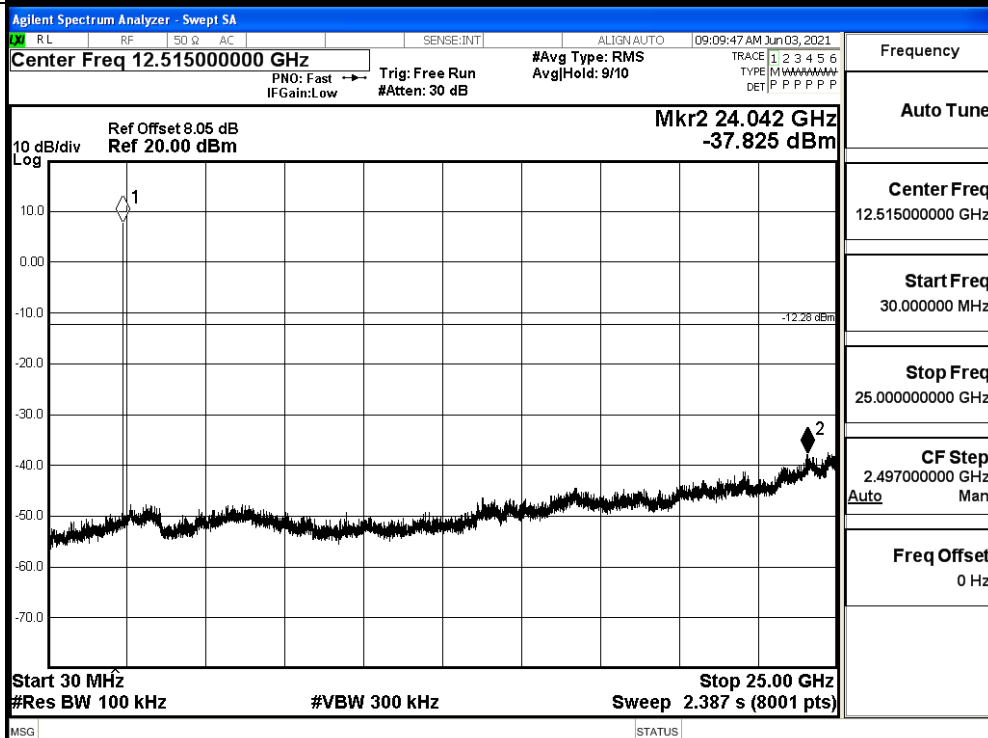
| Mode  | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|------------|------------------|-------------|---------|
| BT LE | LCH     | 7.723      | -37.825          | -12.277     | PASS    |
| BT LE | MCH     | 8.263      | -36.469          | -11.737     | PASS    |
| BT LE | HCH     | 8.4        | -37.606          | -11.600     | PASS    |

BT LE LCH Graphs

Pref/BT LE/LCH



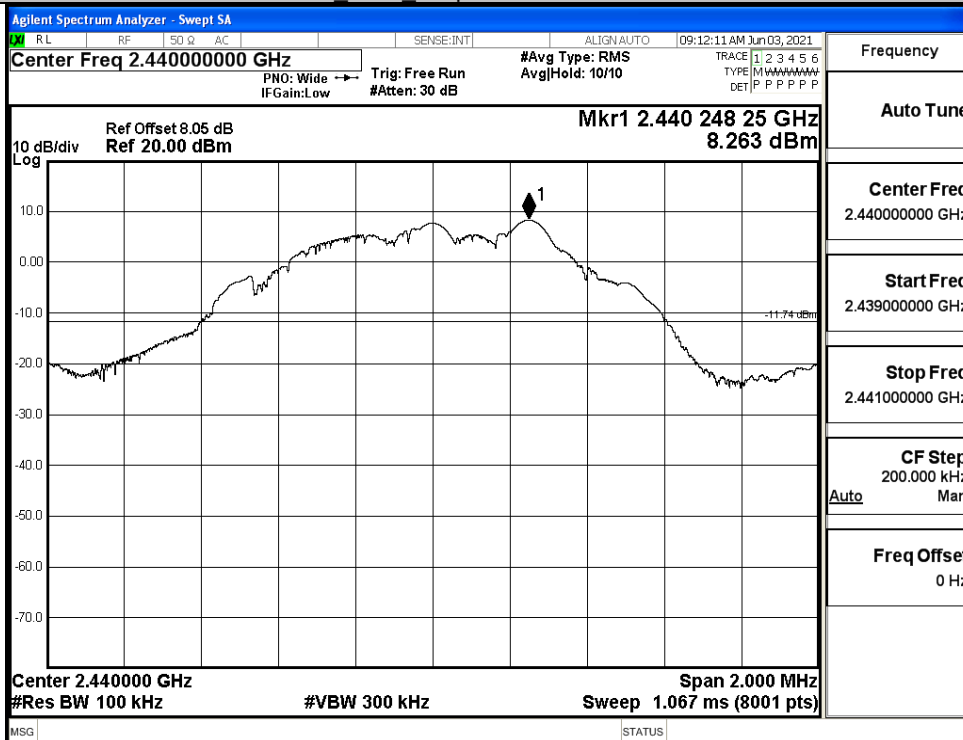
Puw/BT LE/LCH



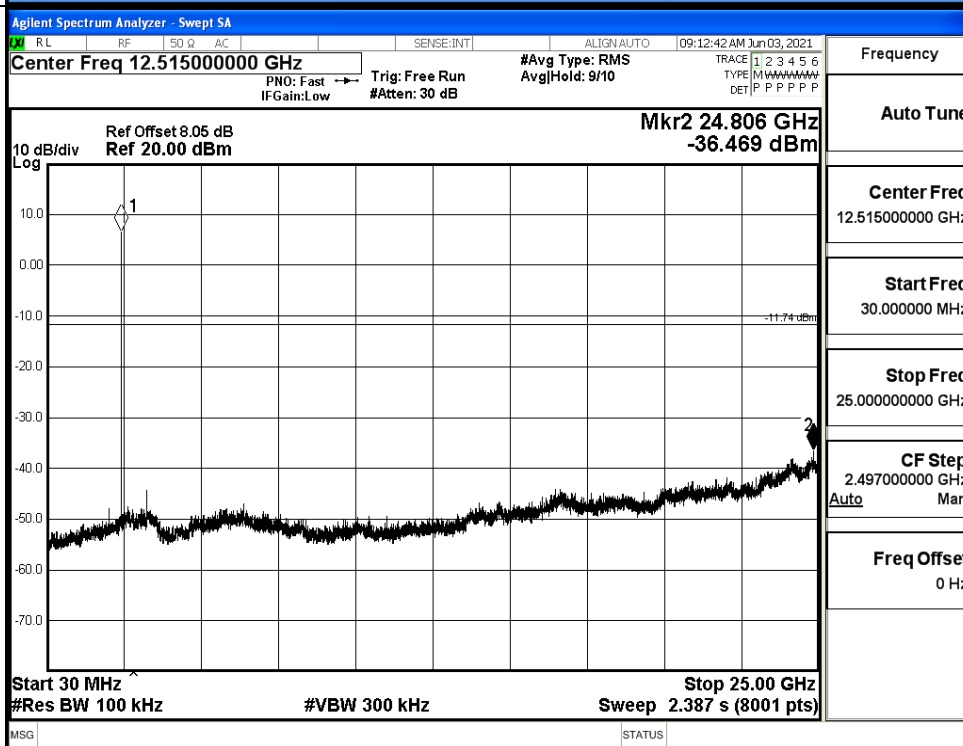


## BT LE MCH Graphs

Pref/BT LE/MCH

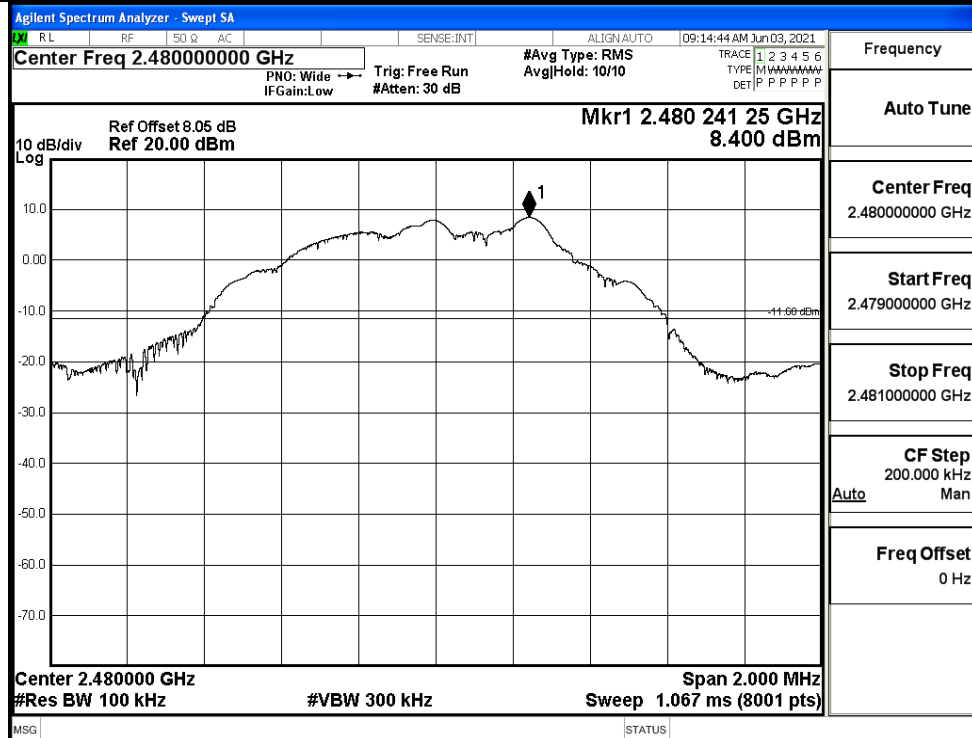


Puw/BT LE/MCH

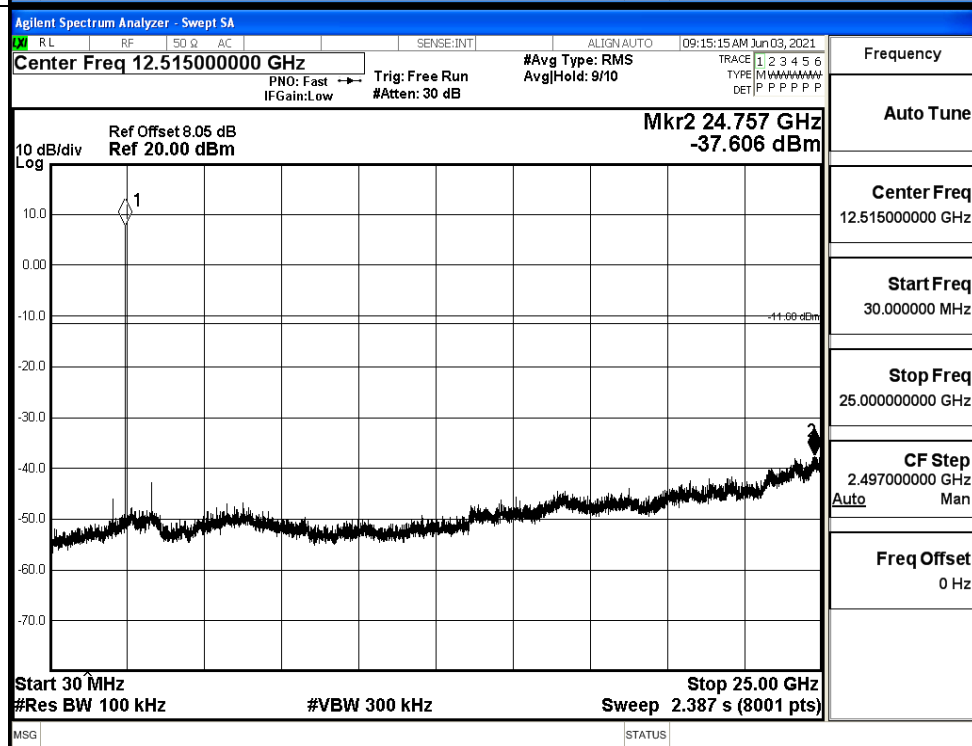


## BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

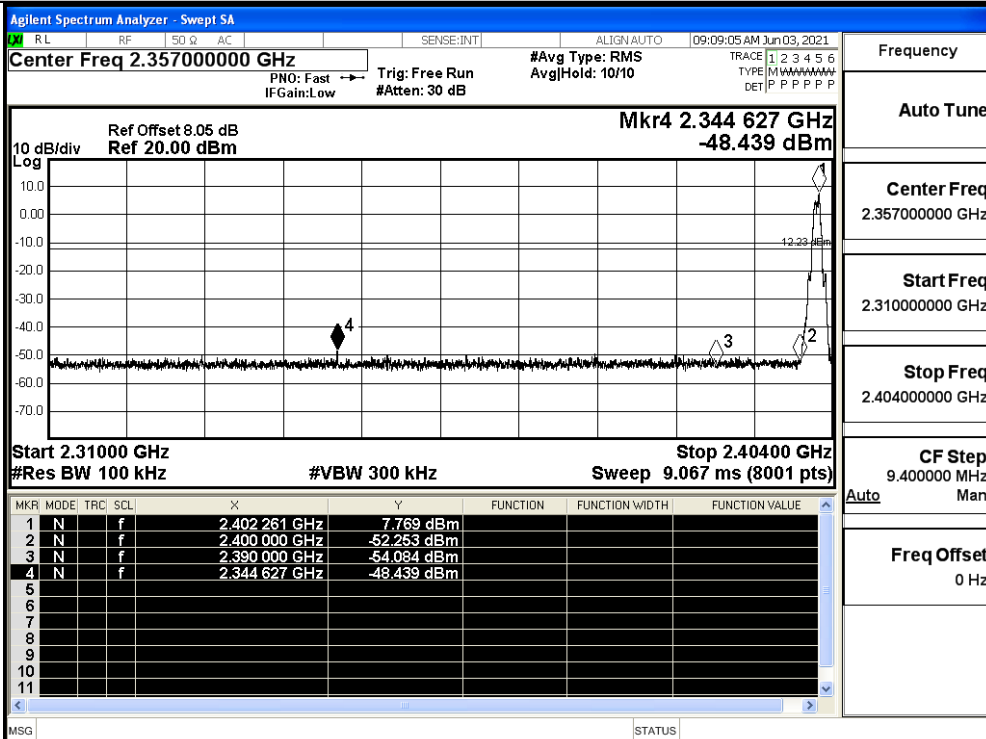


## A.6 Band-edge for RF Conducted Emissions

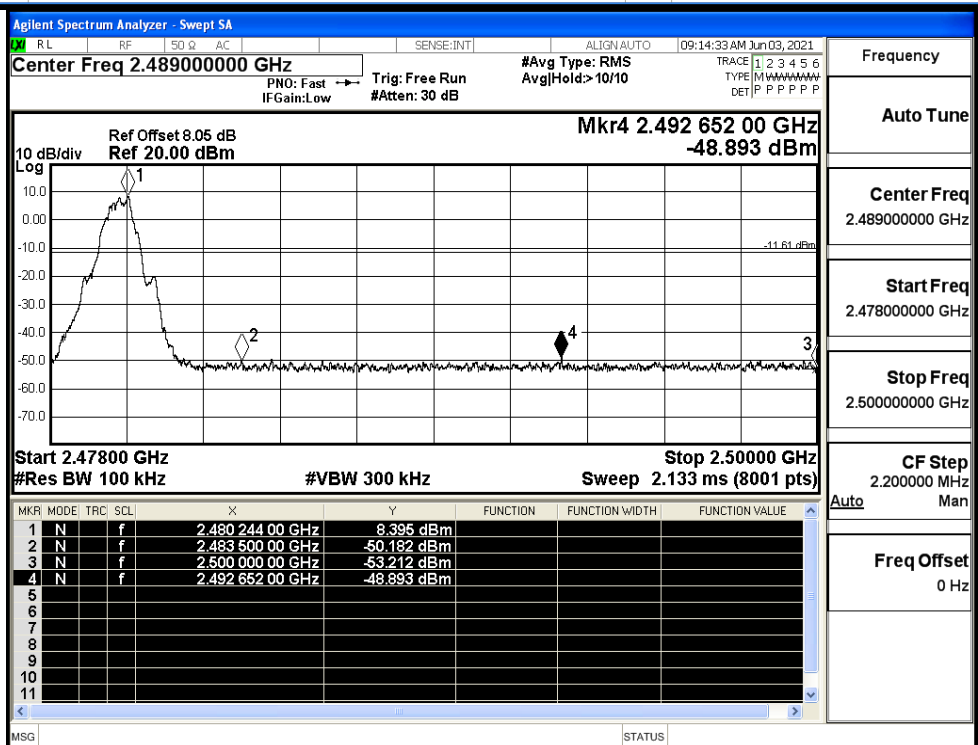
| Mode  | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|--------------------|--------------------------|-------------|---------|
| BT LE | LCH     | 7.769              | -48.439                  | -12.23      | PASS    |
| BT LE | HCH     | 8.395              | -48.893                  | -11.61      | PASS    |

Test Graphs

LCH



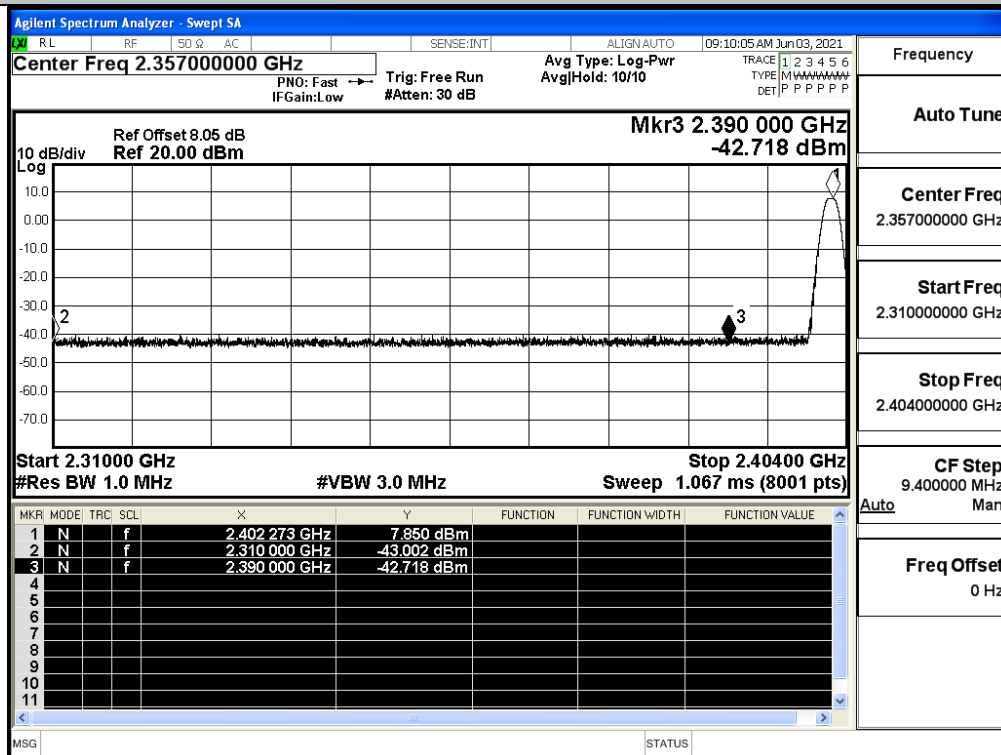
HCH



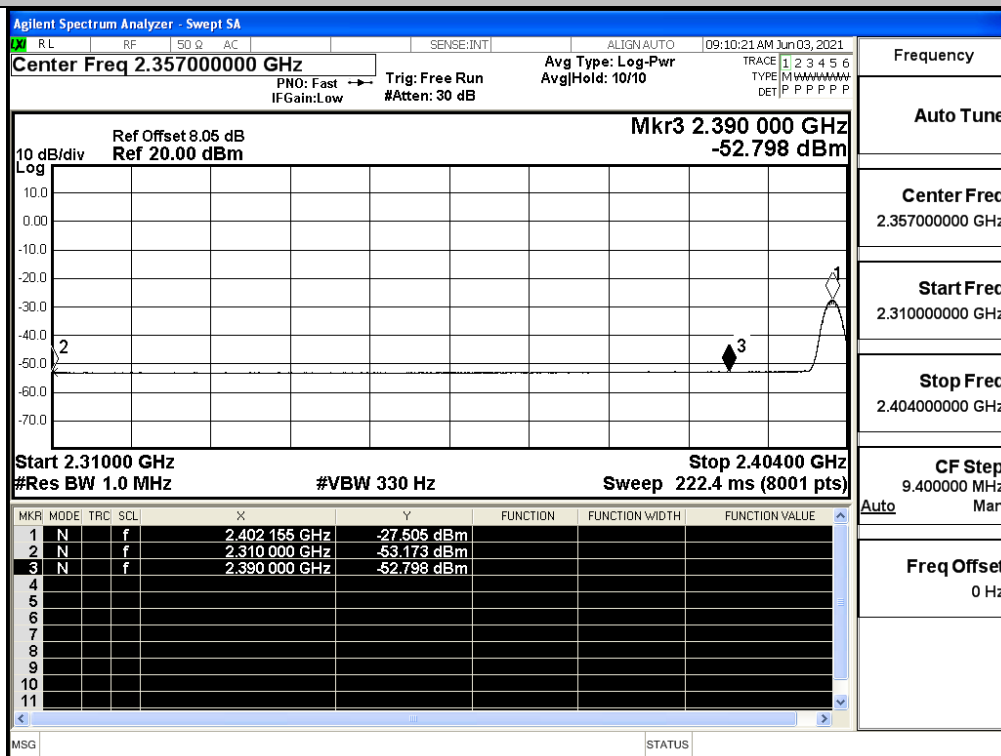
## A.7 Restrict-band band-edge measurements

| Test Mode | Test Channel | Freq.  | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdict |
|-----------|--------------|--------|-------------|------|---------------|------------|----------|----------------|---------|
| BT LE     | 2402         | 2310.0 | -43.00      | 2.0  | 0             | 54.23      | PEAK     | 74             | PASS    |
|           |              | 2310.0 | -53.17      | 2.0  | 0             | 44.06      | AV       | 54             | PASS    |
|           |              | 2390.0 | -42.72      | 2.0  | 0             | 54.51      | PEAK     | 74             | PASS    |
|           |              | 2390.0 | -52.80      | 2.0  | 0             | 44.43      | AV       | 54             | PASS    |
|           | 2480         | 2483.5 | -42.17      | 2.0  | 0             | 55.06      | PEAK     | 74             | PASS    |
|           |              | 2483.5 | -52.24      | 2.0  | 0             | 44.99      | AV       | 54             | PASS    |
|           |              | 2500.0 | -40.77      | 2.0  | 0             | 56.46      | PEAK     | 74             | PASS    |
|           |              | 2500.0 | -52.26      | 2.0  | 0             | 44.97      | AV       | 54             | PASS    |

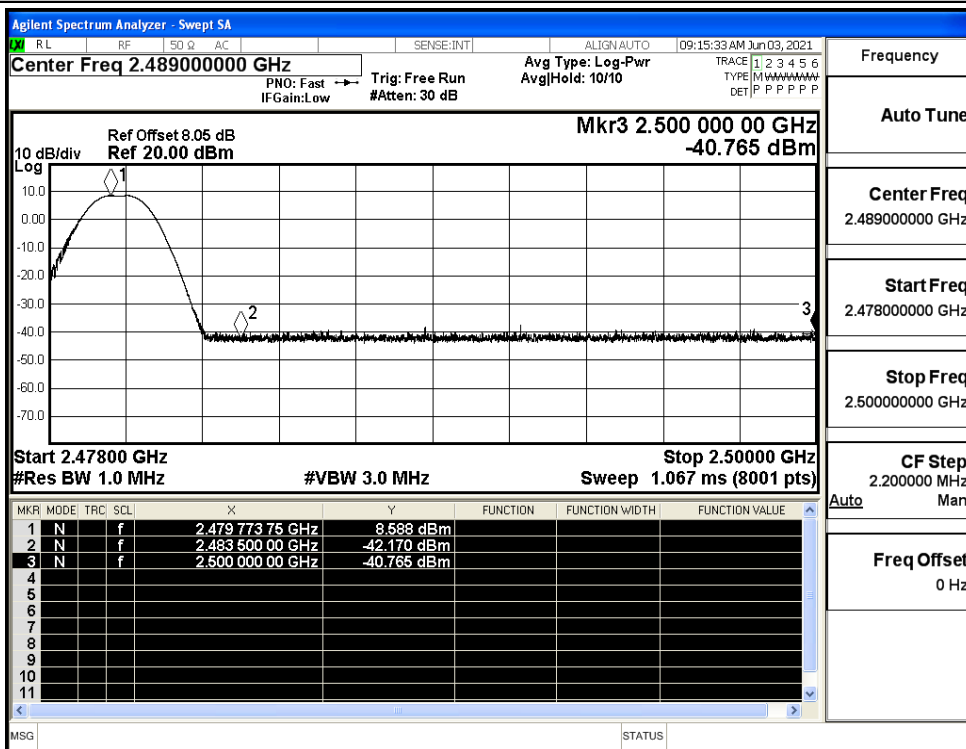
## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_AV



## Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_PEAK



## Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_AV

