

## Appendix A

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

Product Name: bluetooth remote control

Trade Mark: N/A

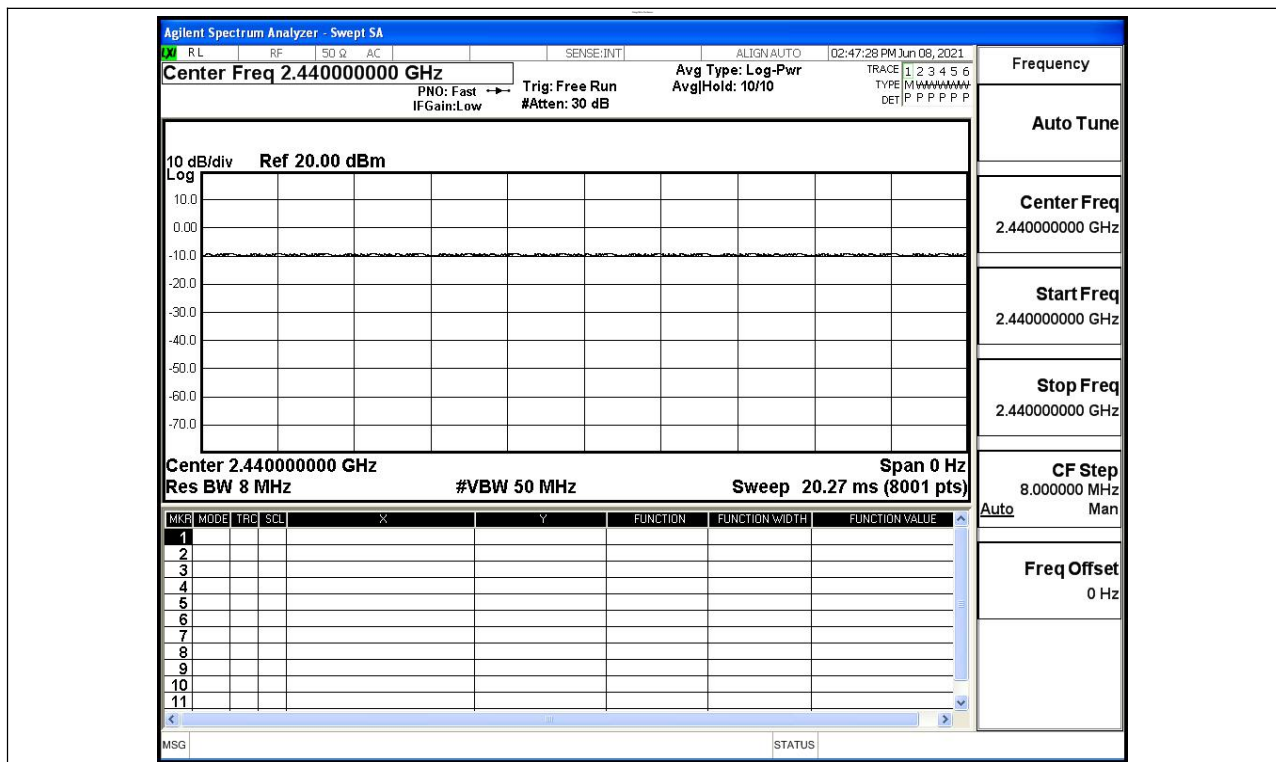
Test Model: T4HiU2005/35k

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24.6 ° C  |
| Relative Humidity: | 54.1%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Kay Hu    |
| Supervised by:     | Li Huan   |

#### A.1 Duty Cycle

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

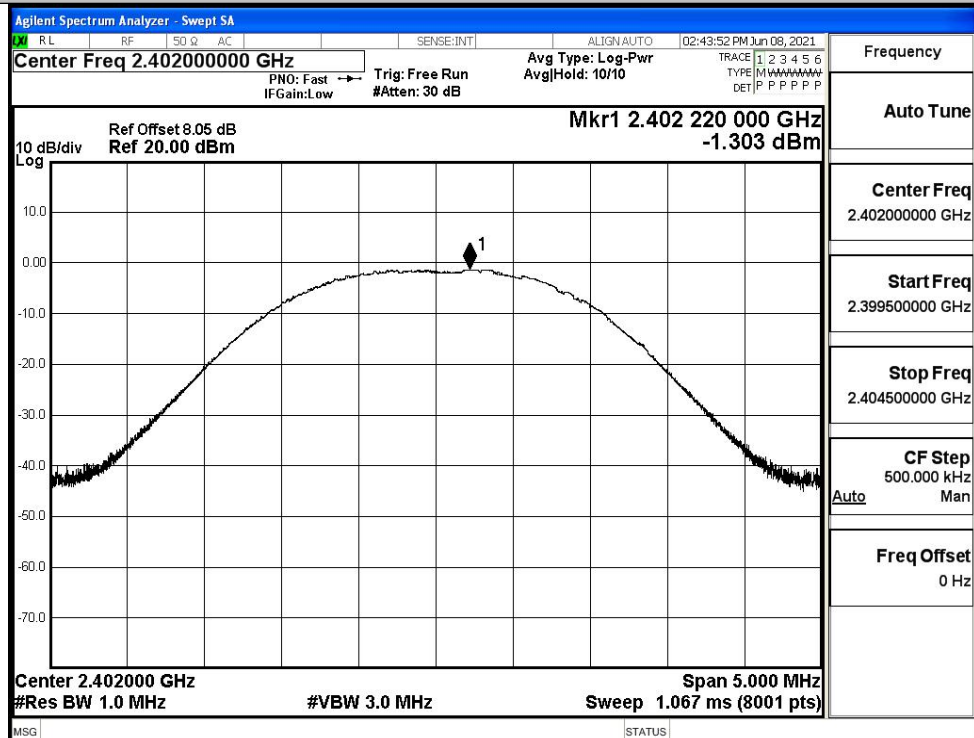


## A.2 Maximum Conducted Peak Output Power

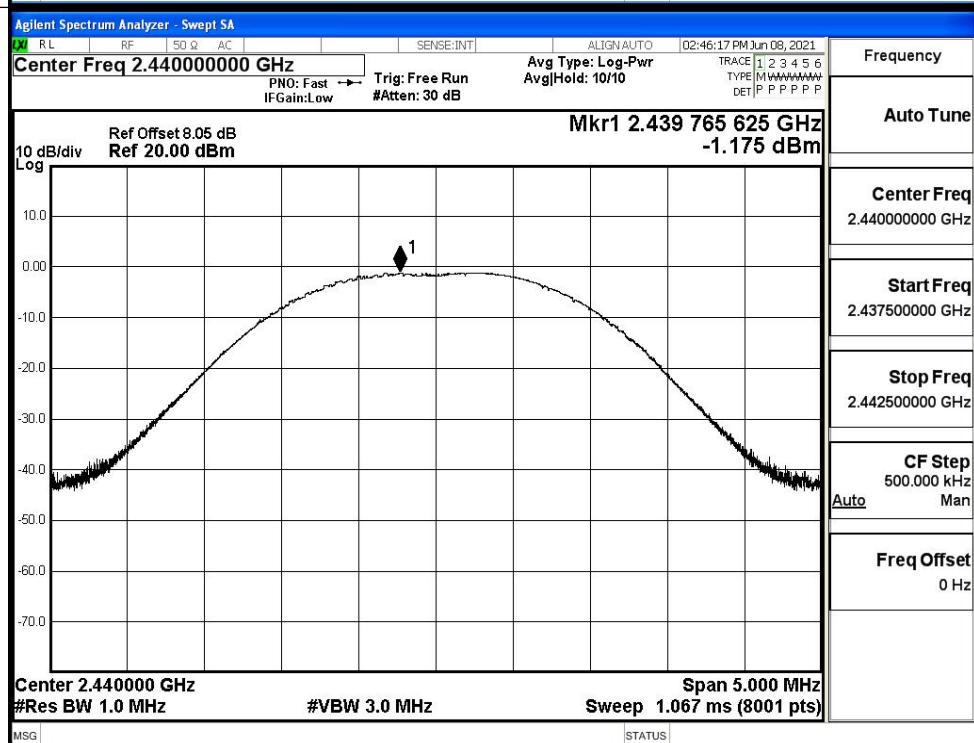
| Mode  | Channel | Conduct Peak Power[dBm] | Limit [dBm] | Verdict |
|-------|---------|-------------------------|-------------|---------|
| BT LE | LCH     | -1.303                  | 30          | PASS    |
| BT LE | MCH     | -1.175                  | 30          | PASS    |
| BT LE | HCH     | -0.769                  | 30          | PASS    |

Test Graphs

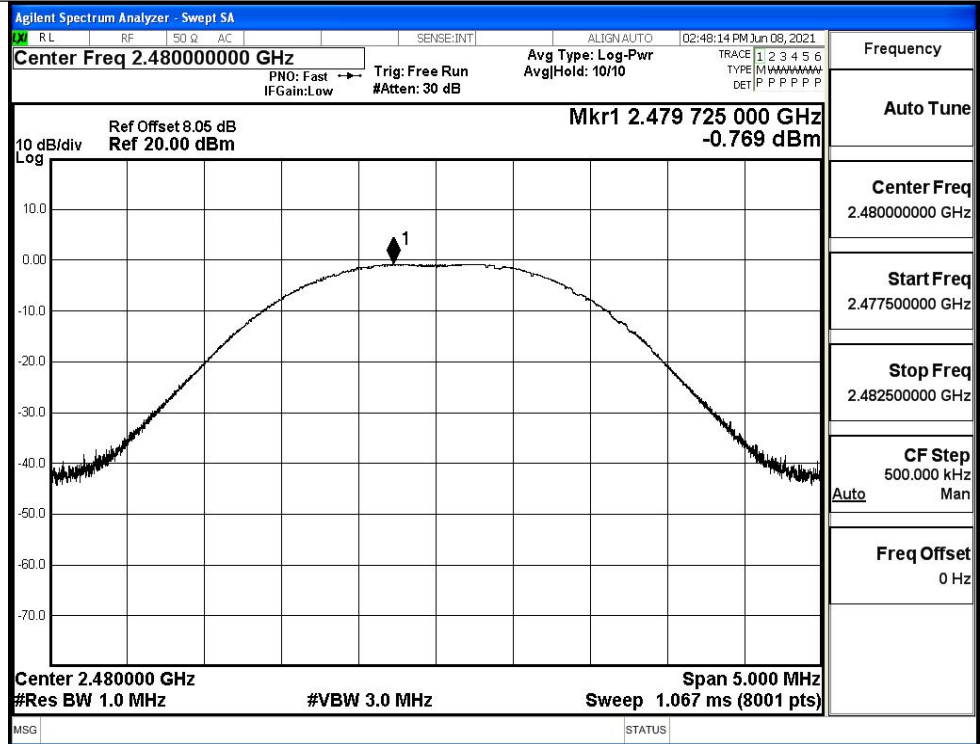
LCH



MCH



HCH

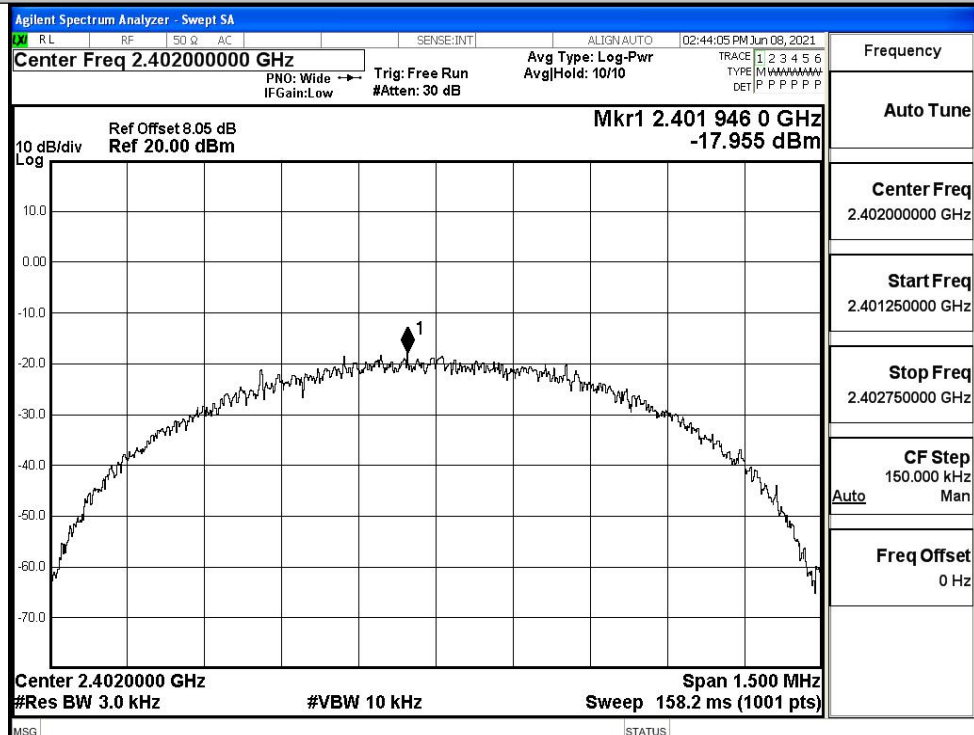


### A.3 Maximum Power Spectral Density

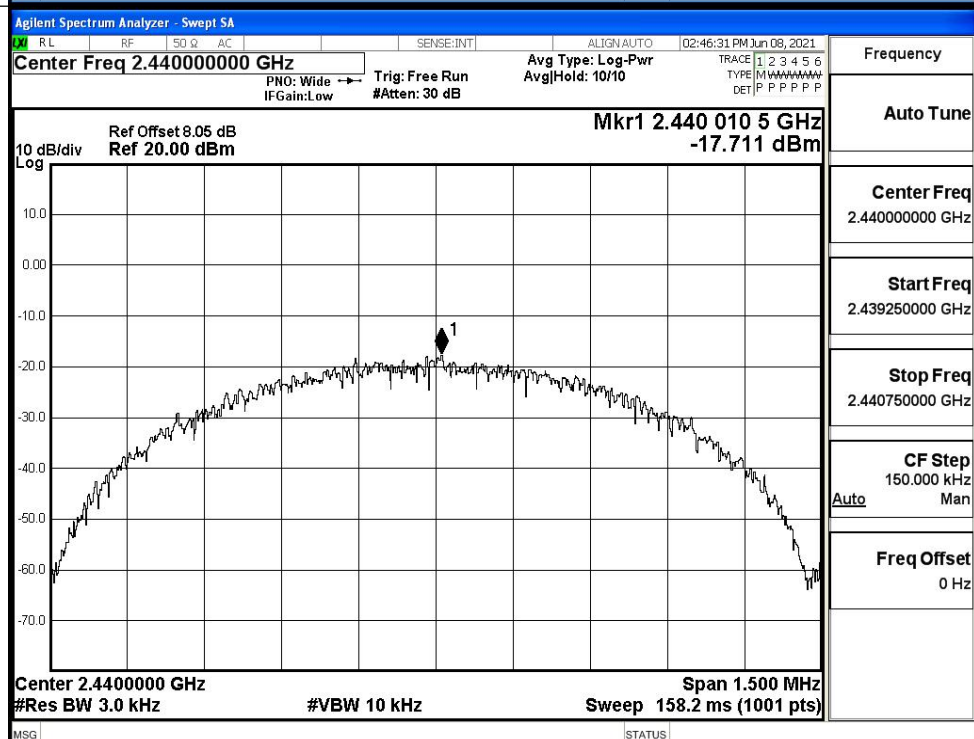
| Mode  | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-------|---------|----------------|------------------|---------|
| BT LE | LCH     | -17.955        | 8                | PASS    |
| BT LE | MCH     | -17.711        | 8                | PASS    |
| BT LE | HCH     | -17.579        | 8                | PASS    |

Test Graphs

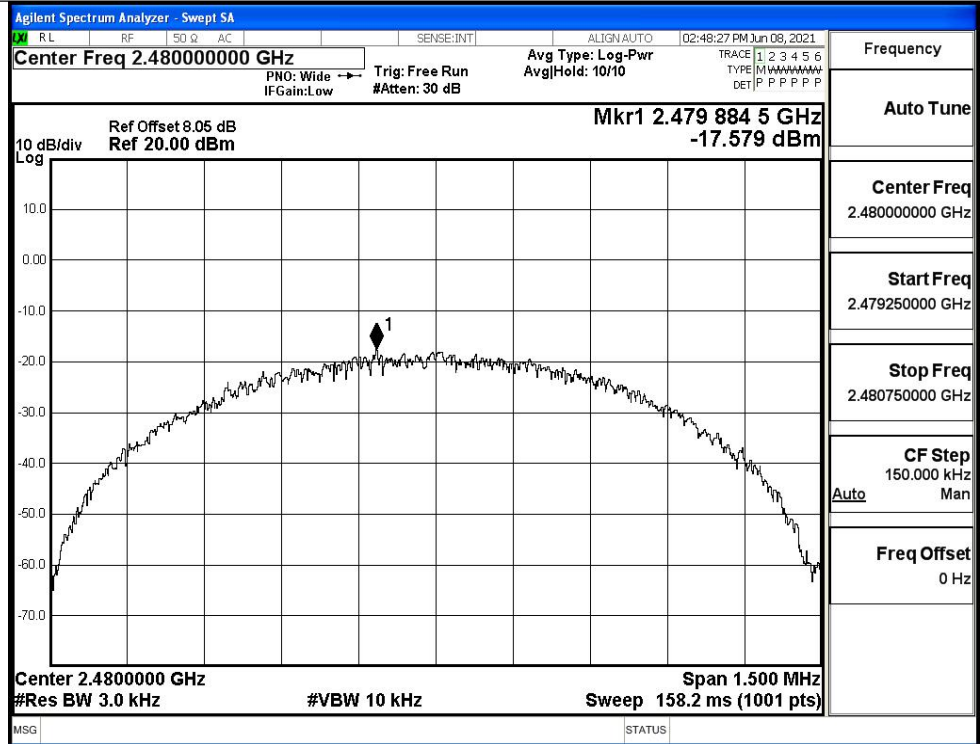
LCH



MCH



HCH

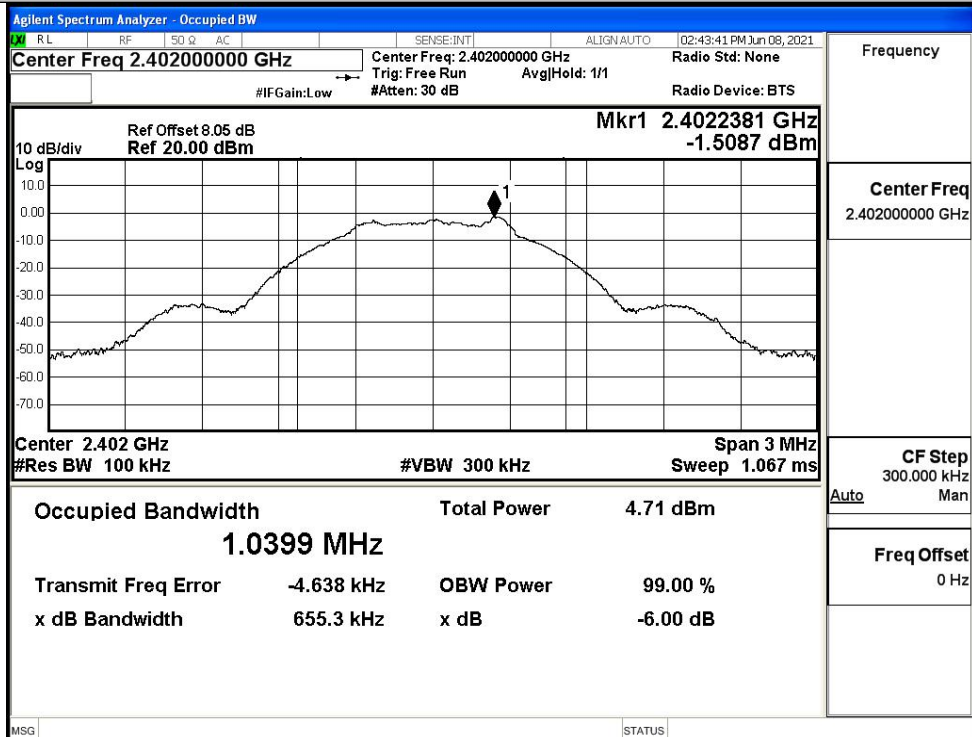


# A.4 6dB Bandwidth

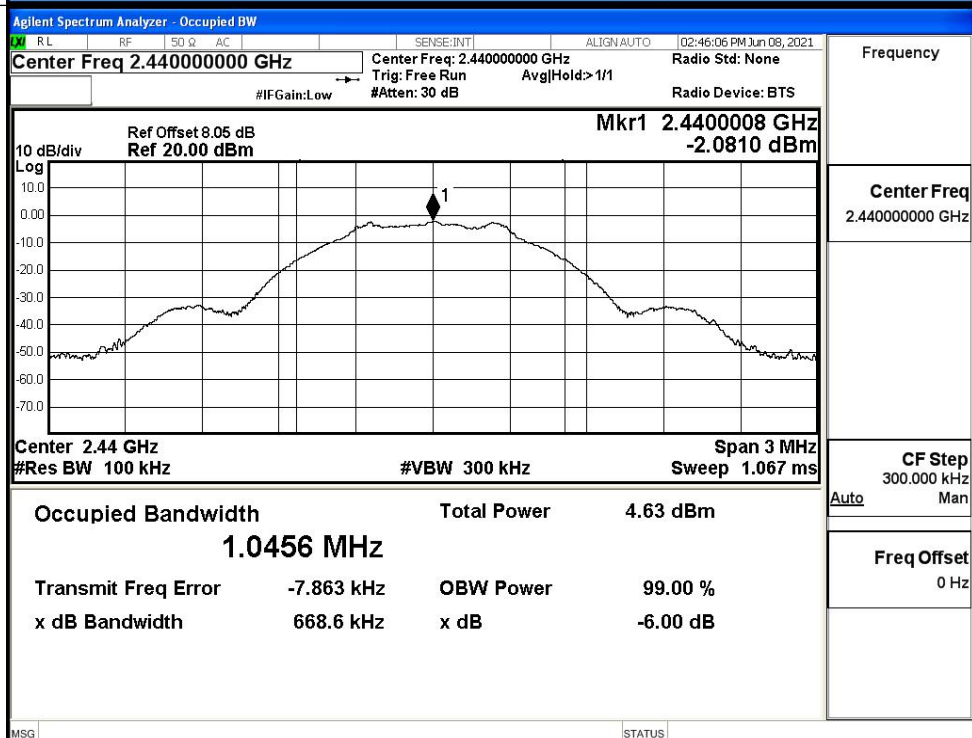
| Mode  | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-------|---------|---------------------|-------------|---------|
| BT LE | LCH     | 0.6553              | $\geq 0.5$  | PASS    |
| BT LE | MCH     | 0.6686              | $\geq 0.5$  | PASS    |
| BT LE | HCH     | 0.6688              | $\geq 0.5$  | PASS    |

## Test Graphs

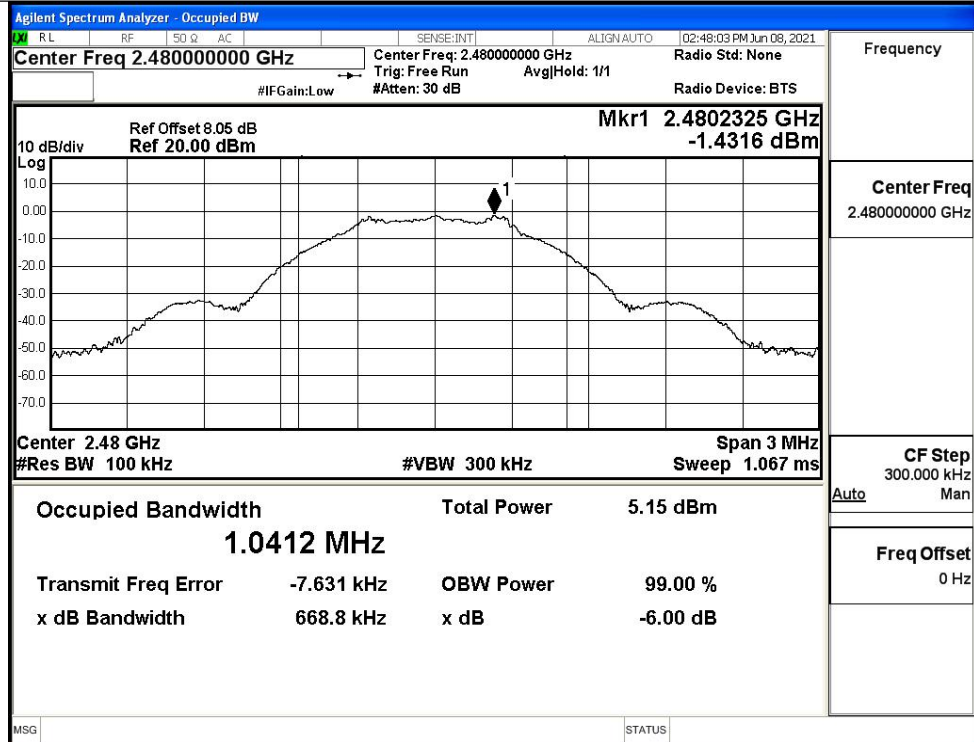
LCH



MCH

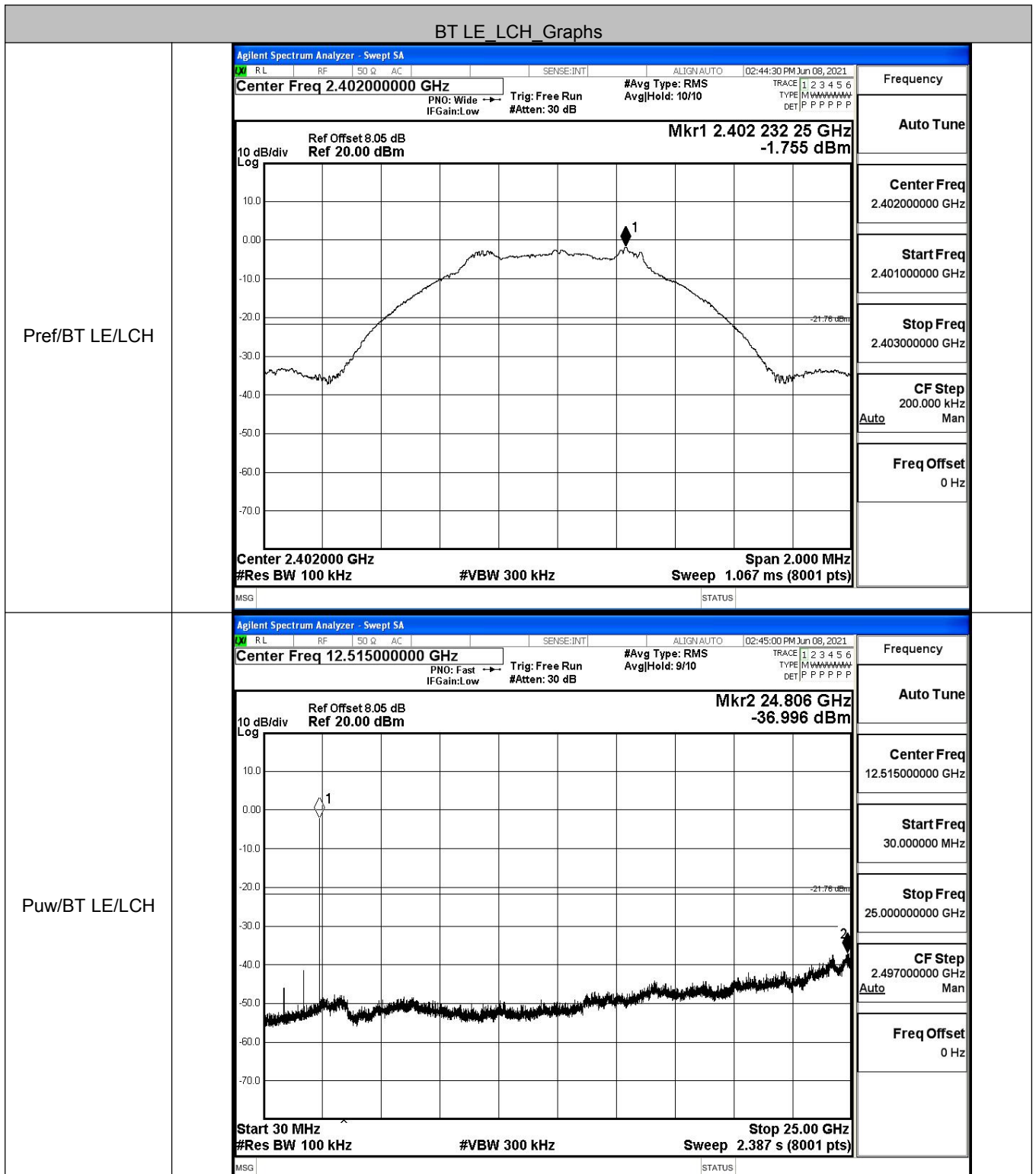


HCH



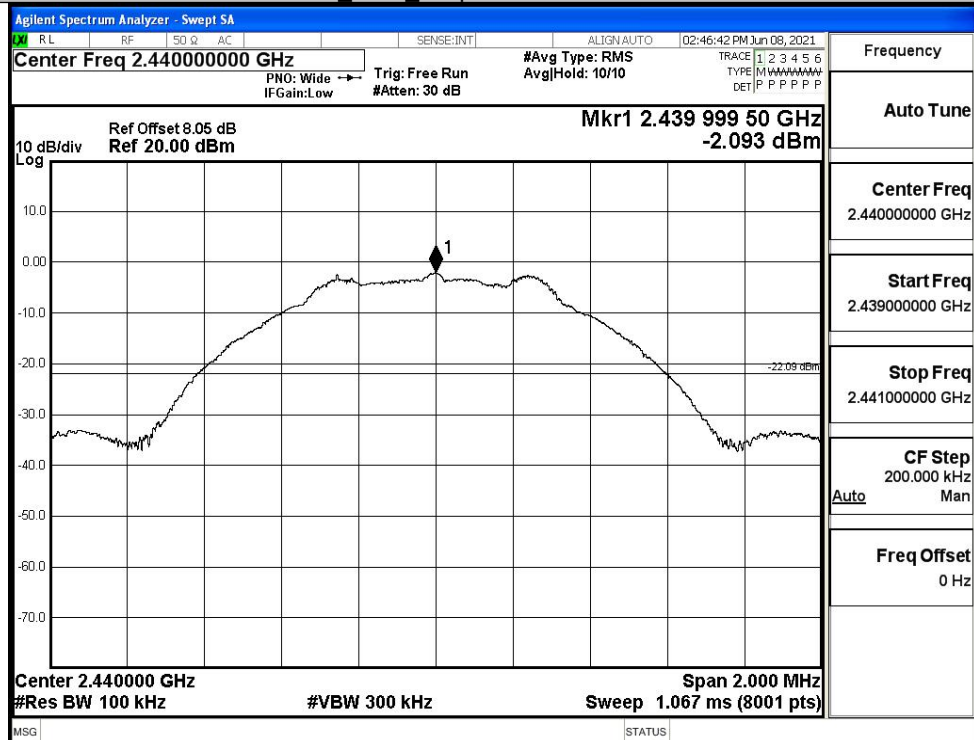
# A.5 RF Conducted Spurious Emissions

| Mode  | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|------------|------------------|-------------|---------|
| BT LE | LCH     | -1.755     | -36.996          | -21.755     | PASS    |
| BT LE | MCH     | -2.093     | -37.548          | -22.093     | PASS    |
| BT LE | HCH     | -1.382     | -35.941          | -21.382     | PASS    |

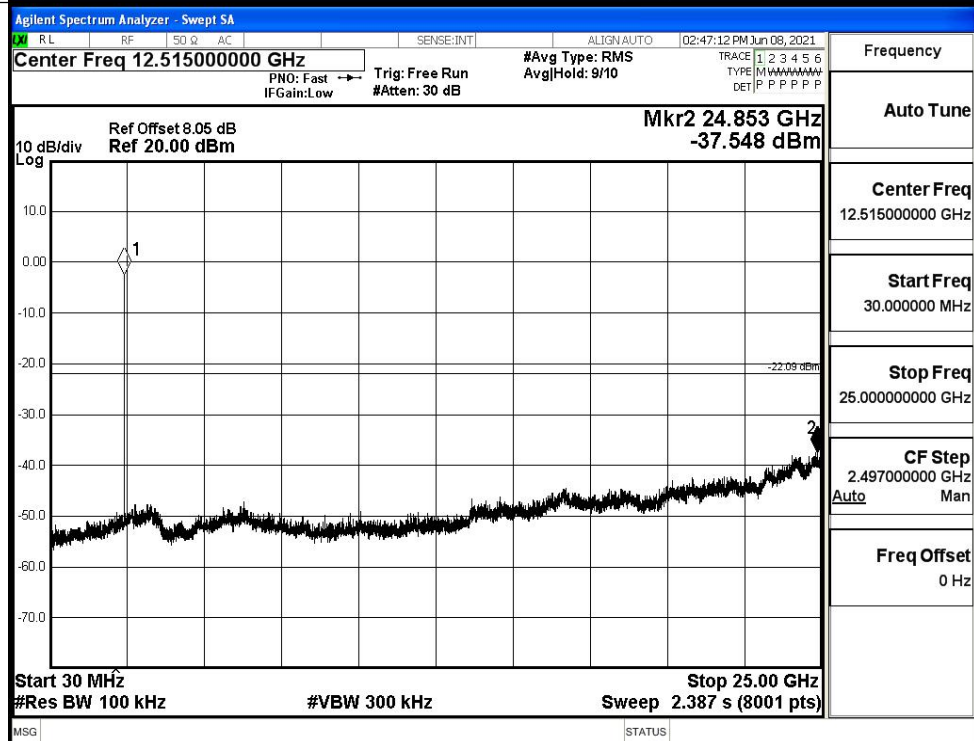


# BT LE MCH Graphs

Pref/BT LE/MCH

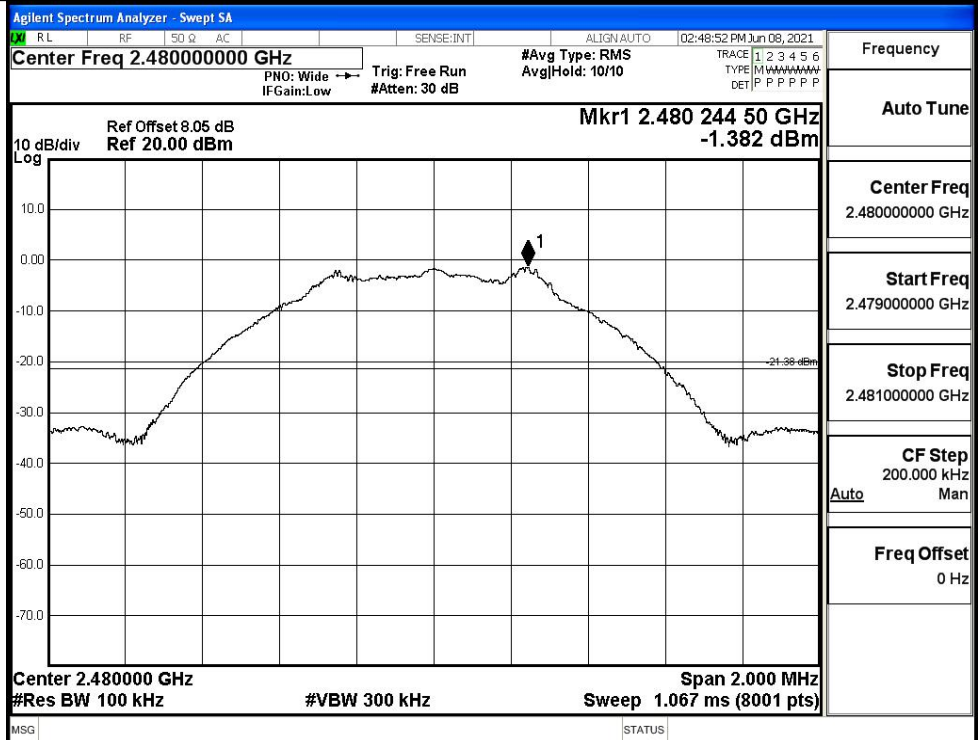


Puw/BT LE/MCH

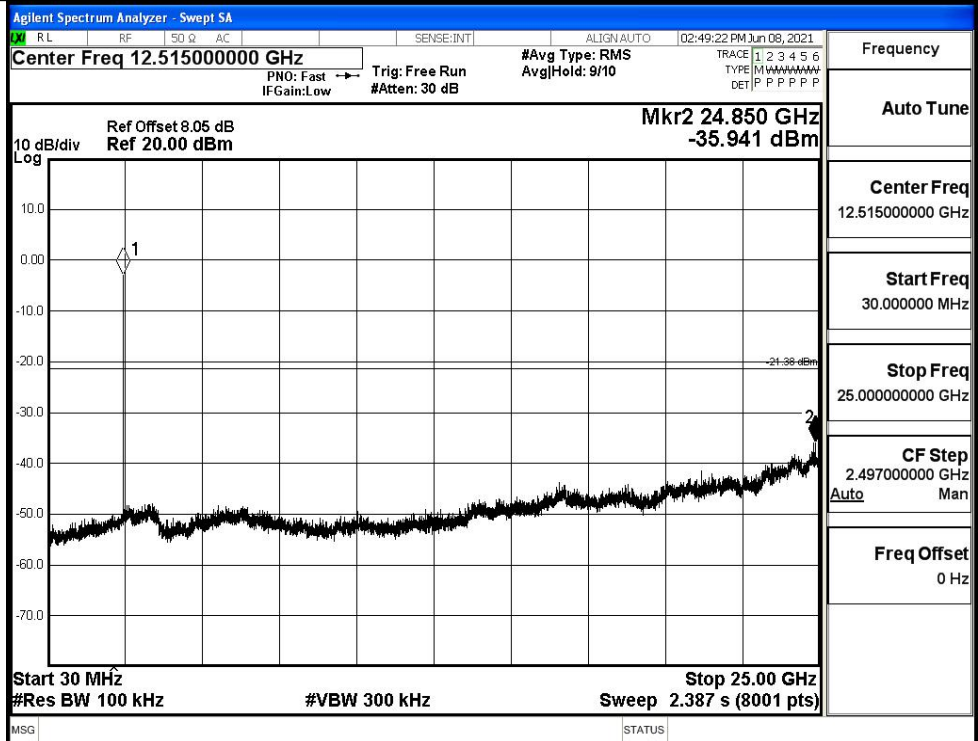


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

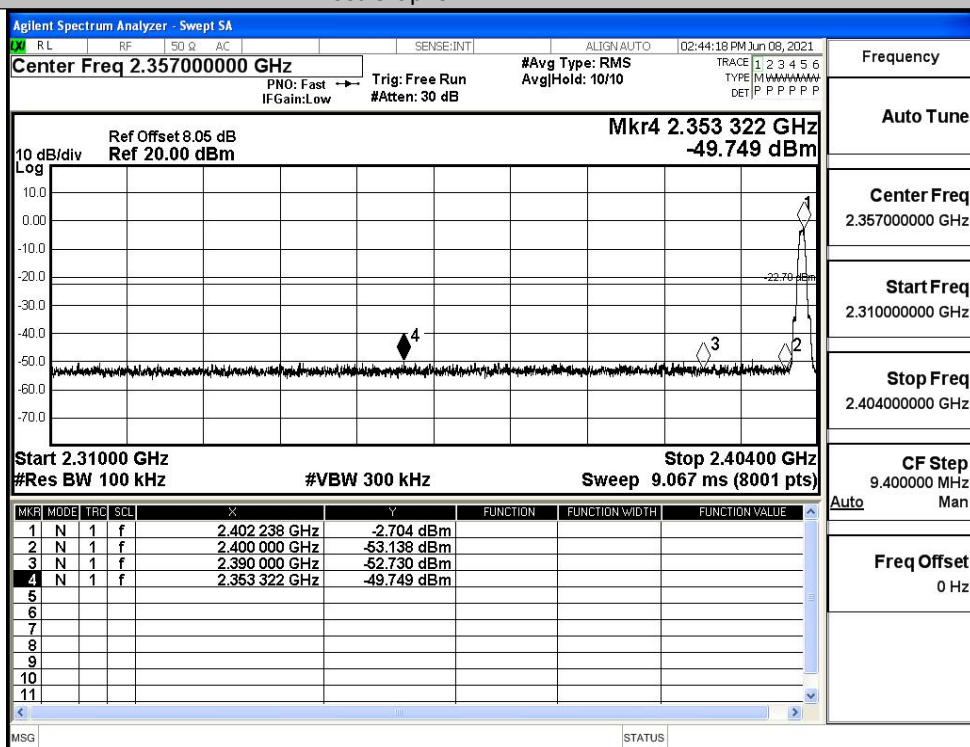


## A.6 Band-edge for RF Conducted Emissions

| Mode  | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|--------------------|--------------------------|-------------|---------|
| BT LE | LCH     | -2.704             | -49.749                  | -22.7       | PASS    |
| BT LE | HCH     | -1.165             | -49.221                  | -21.17      | PASS    |

Test Graphs

LCH

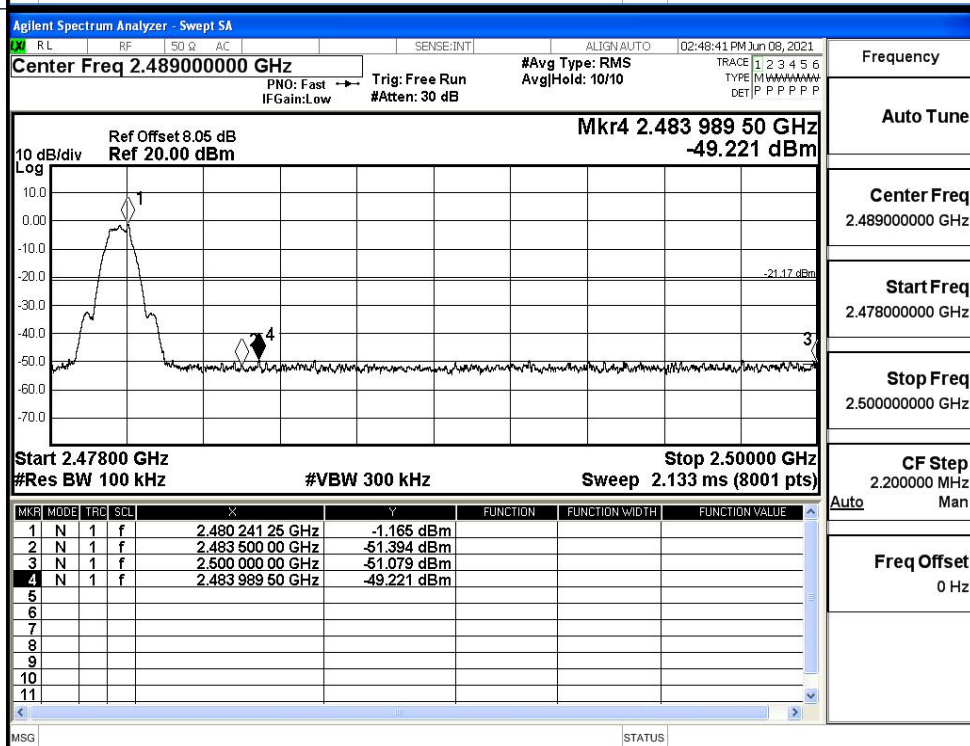


Frequency

Auto Tune

Center Freq  
2.357000000 GHzStart Freq  
2.310000000 GHzStop Freq  
2.404000000 GHzCF Step  
9.400000 MHz  
Auto ManFreq Offset  
0 Hz

HCH



Frequency

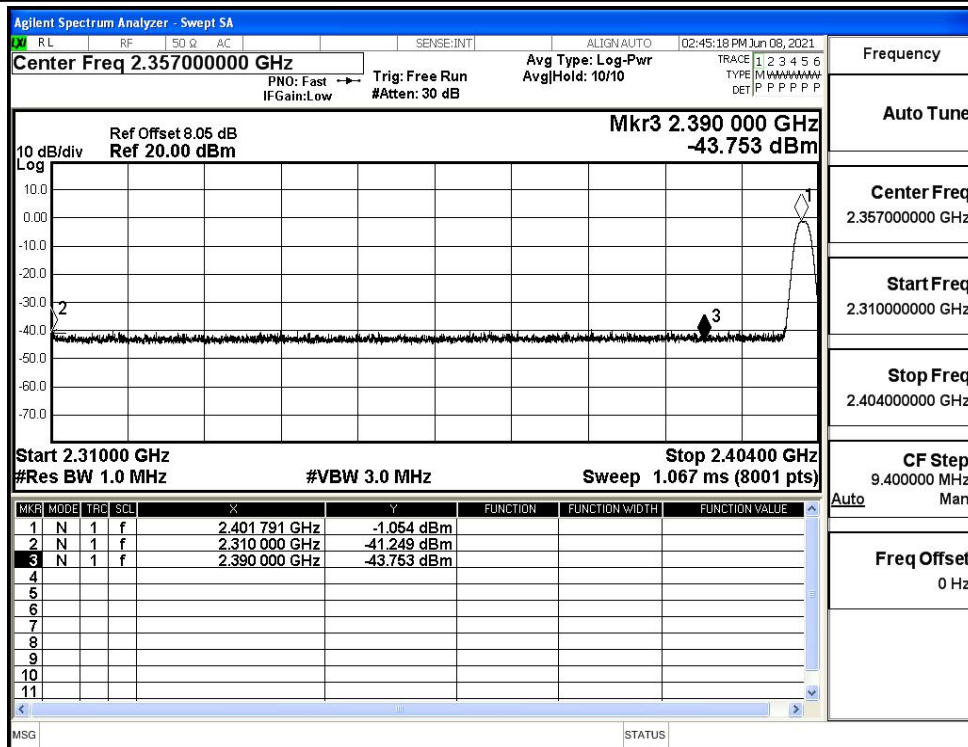
Auto Tune

Center Freq  
2.489000000 GHzStart Freq  
2.478000000 GHzStop Freq  
2.500000000 GHzCF Step  
2.200000 MHz  
Auto ManFreq Offset  
0 Hz

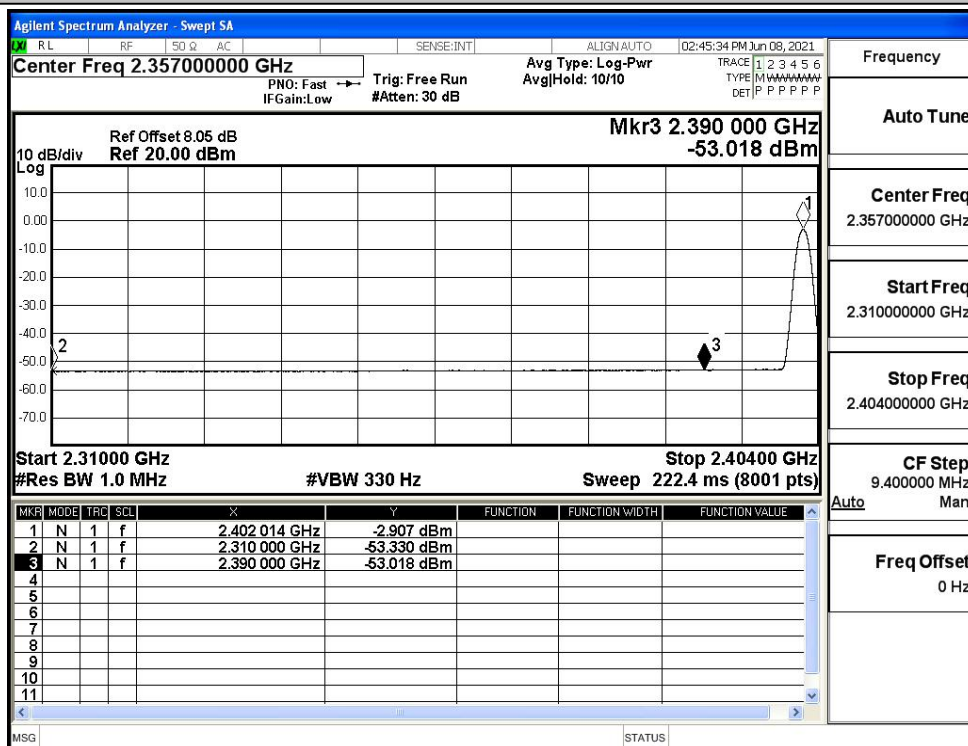
## A.7 Restrict-band band-edge measurements

| Test Mode | Test Channel | Ant  | Freq.  | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdi |
|-----------|--------------|------|--------|-------------|------|---------------|------------|----------|----------------|-------|
| BT LE     | 2402         | Ant1 | 2310.0 | -41.25      | 2.0  | 0             | 55.98      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2310.0 | -53.33      | 2.0  | 0             | 43.90      | AV       | 54             | PASS  |
|           |              | Ant1 | 2390.0 | -43.75      | 2.0  | 0             | 53.48      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2390.0 | -53.02      | 2.0  | 0             | 44.21      | AV       | 54             | PASS  |
|           | 2480         | Ant1 | 2483.5 | -42.45      | 2.0  | 0             | 54.78      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2483.5 | -52.40      | 2.0  | 0             | 44.83      | AV       | 54             | PASS  |
|           |              | Ant1 | 2500.0 | -42.68      | 2.0  | 0             | 54.55      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2500.0 | -52.26      | 2.0  | 0             | 44.97      | AV       | 54             | PASS  |

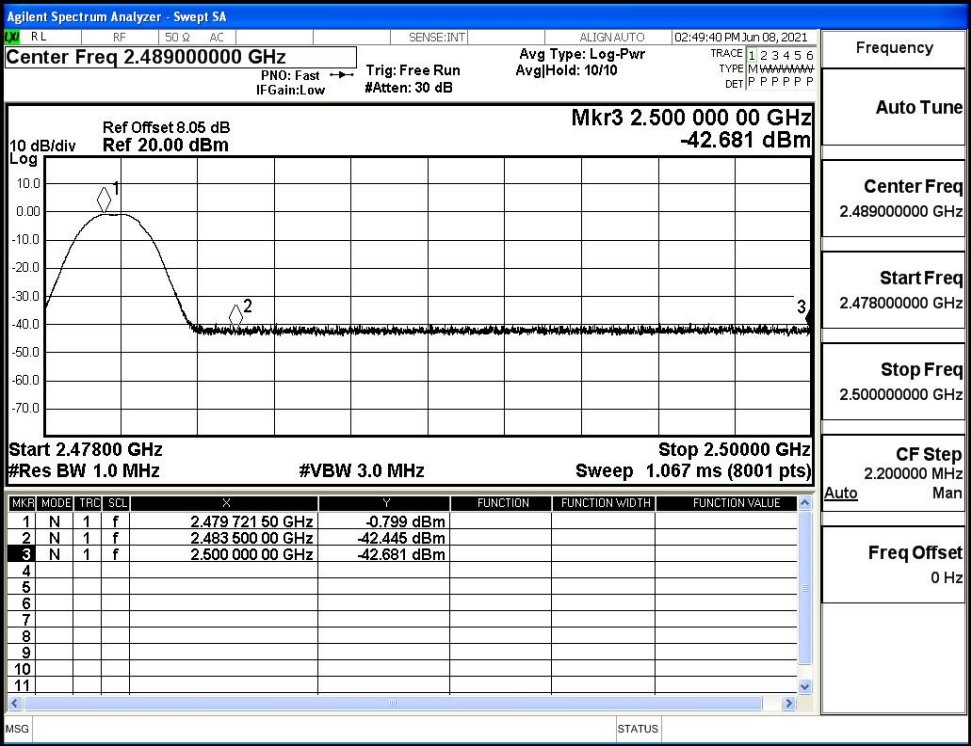
## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



## 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

