

## Appendix B

### RF Test Data for BT V4.1 (Conducted Measurement)

Product Name: Tablet PC

Trade Mark: H800B

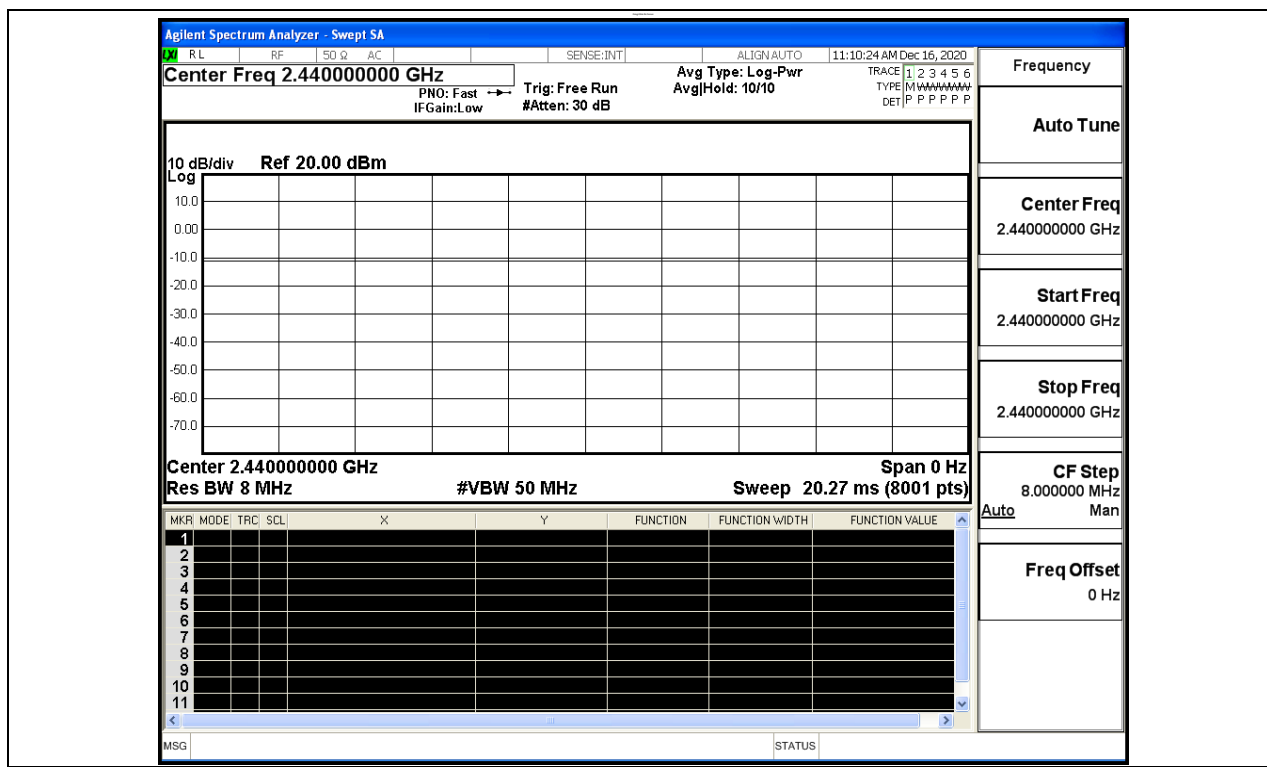
Test Model: RIGEL

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 22.5° C    |
| Relative Humidity: | 53.7%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Diamond Lu |
| Supervised by:     | Li Huan    |

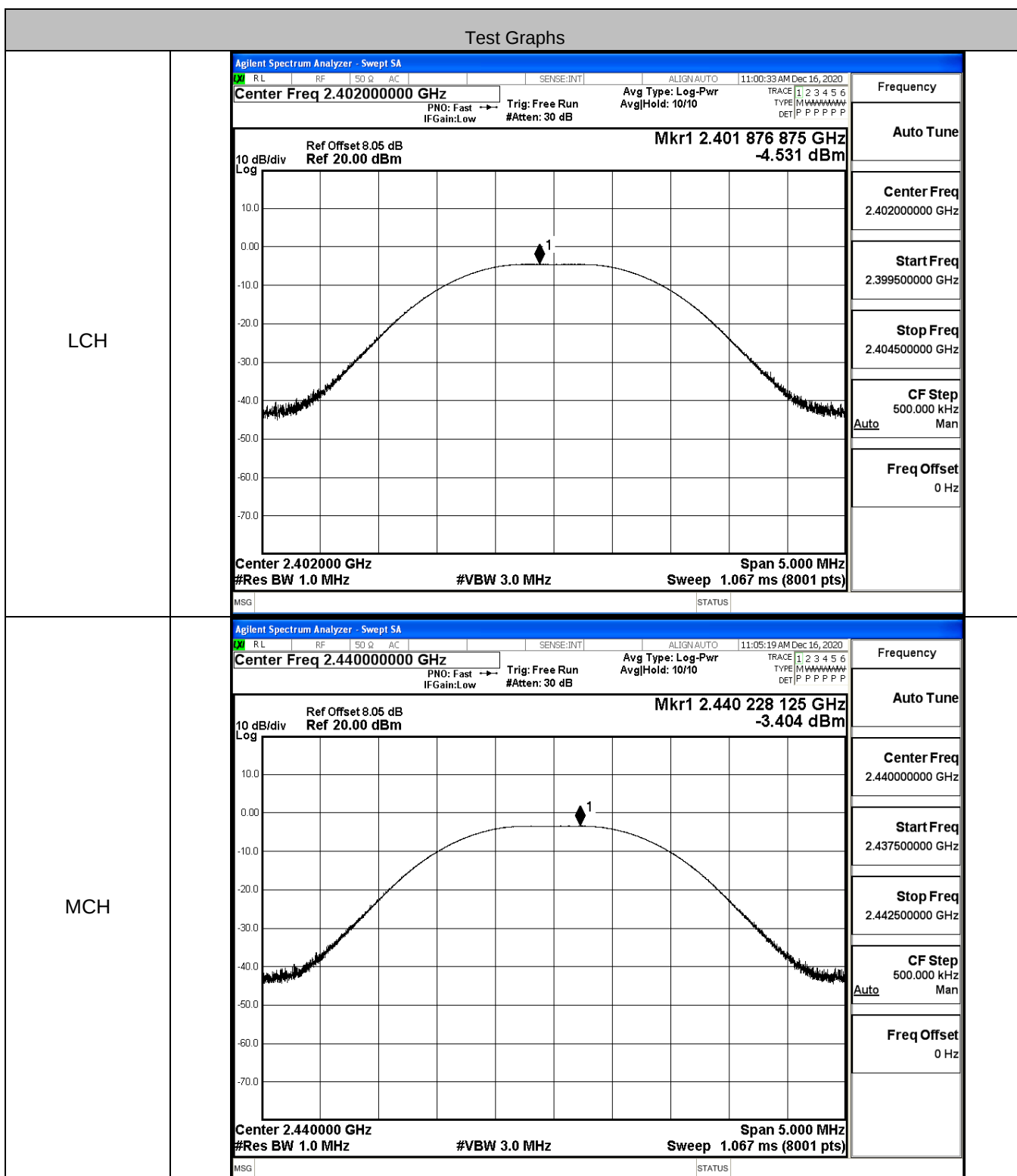
#### B.1 Duty Cycle

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

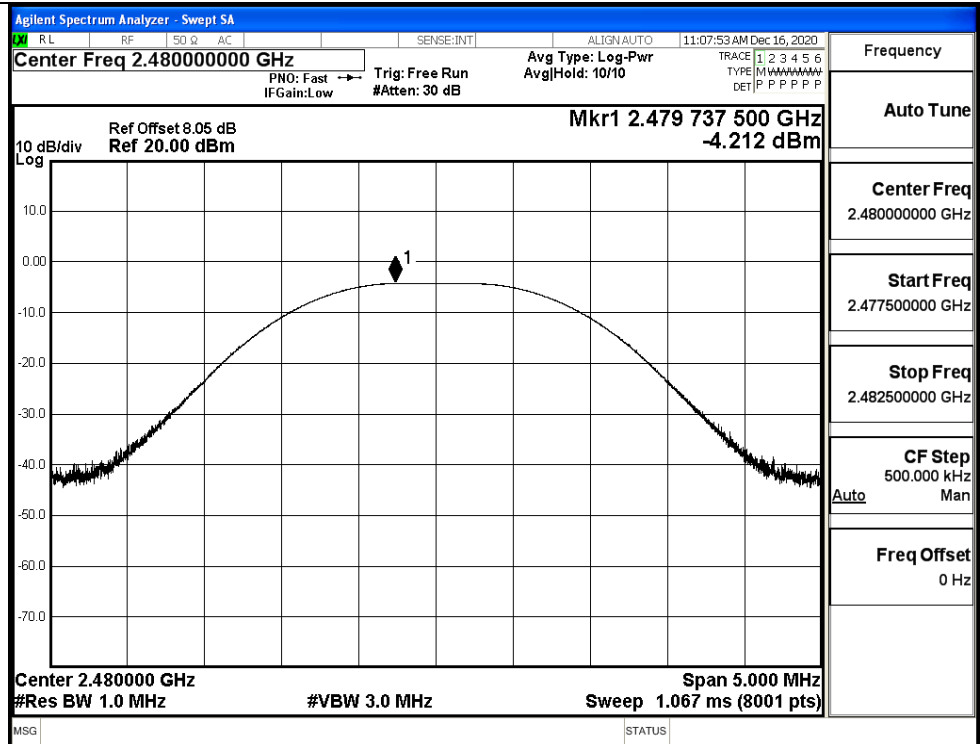


## B.2 Maximum Conducted Peak Output Power

| Mode  | Channel | Conduct Peak Power[dBm] | Limit [dBm] | Verdict |
|-------|---------|-------------------------|-------------|---------|
| BT LE | LCH     | -4.531                  | 30          | PASS    |
| BT LE | MCH     | -3.404                  | 30          | PASS    |
| BT LE | HCH     | -4.212                  | 30          | PASS    |



HCH

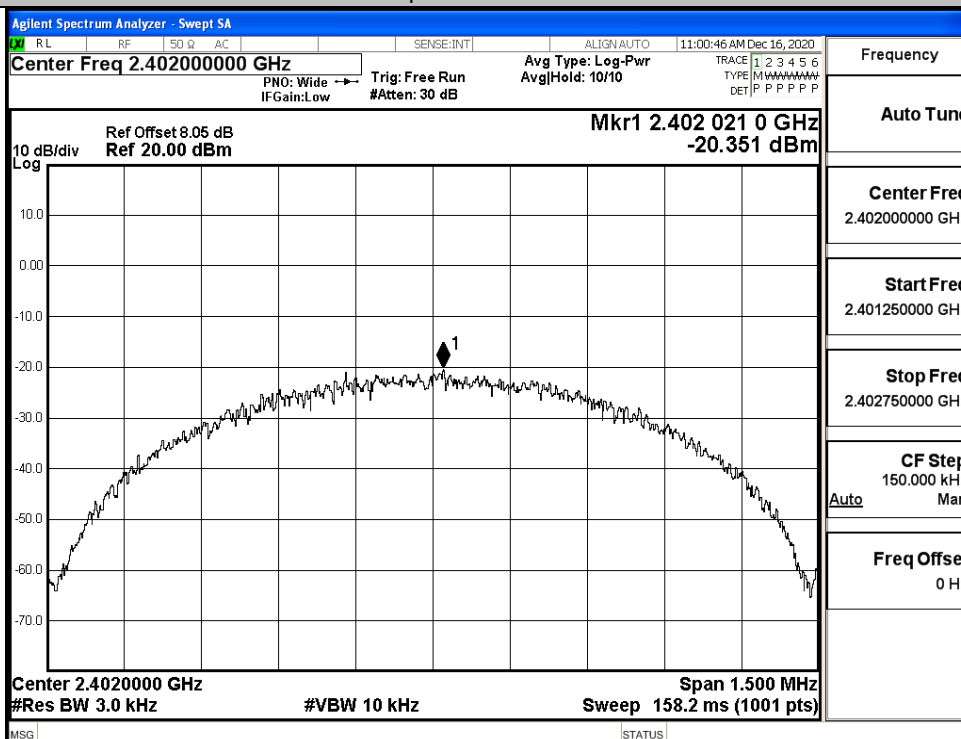


### B.3 Maximum Power Spectral Density

| Mode  | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-------|---------|----------------|------------------|---------|
| BT LE | LCH     | -20.351        | 8                | PASS    |
| BT LE | MCH     | -19.284        | 8                | PASS    |
| BT LE | HCH     | -20.380        | 8                | PASS    |

Test Graphs

LCH

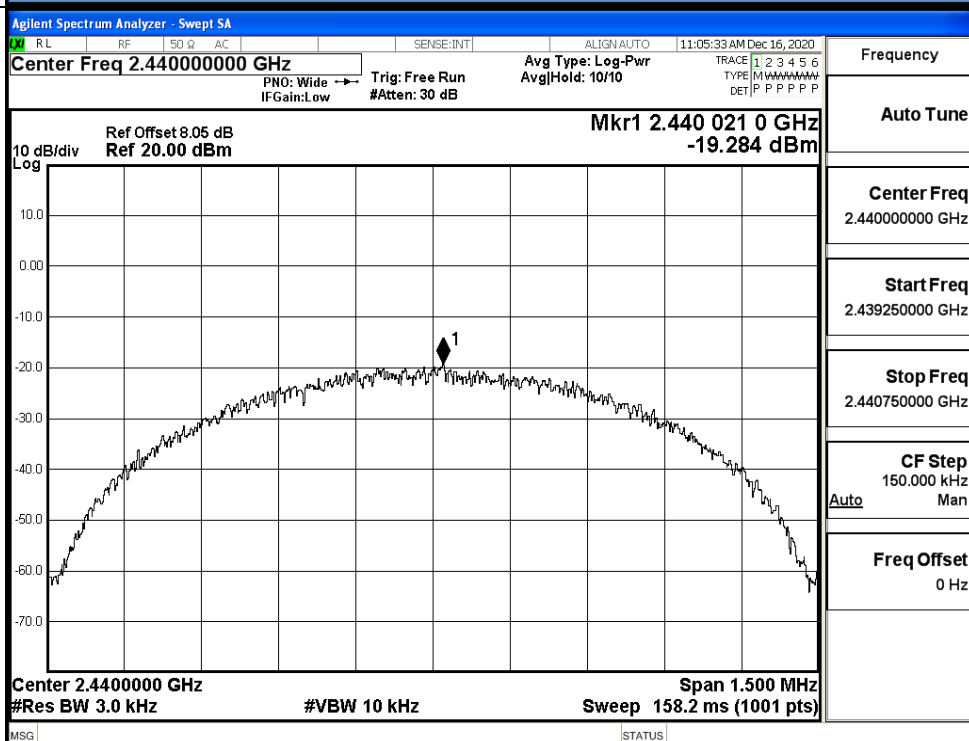


Frequency

Auto Tune

Center Freq  
2.402000000 GHzStart Freq  
2.401250000 GHzStop Freq  
2.402750000 GHzCF Step  
150.000 kHz  
Auto ManFreq Offset  
0 Hz

MCH

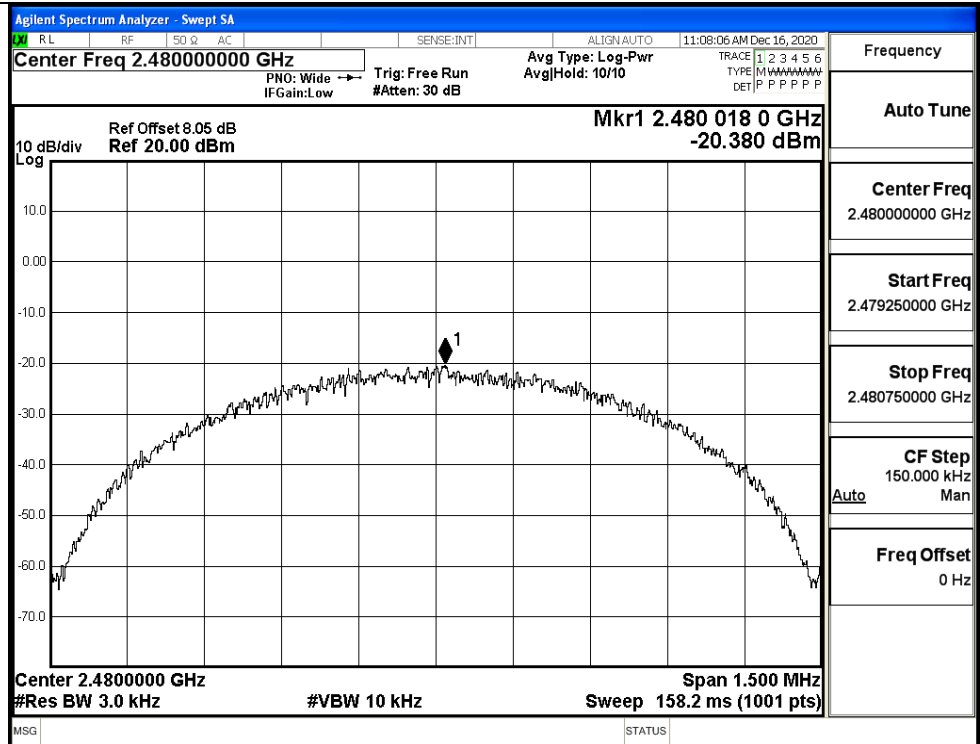


Frequency

Auto Tune

Center Freq  
2.440000000 GHzStart Freq  
2.439250000 GHzStop Freq  
2.440750000 GHzCF Step  
150.000 kHz  
Auto ManFreq Offset  
0 Hz

HCH

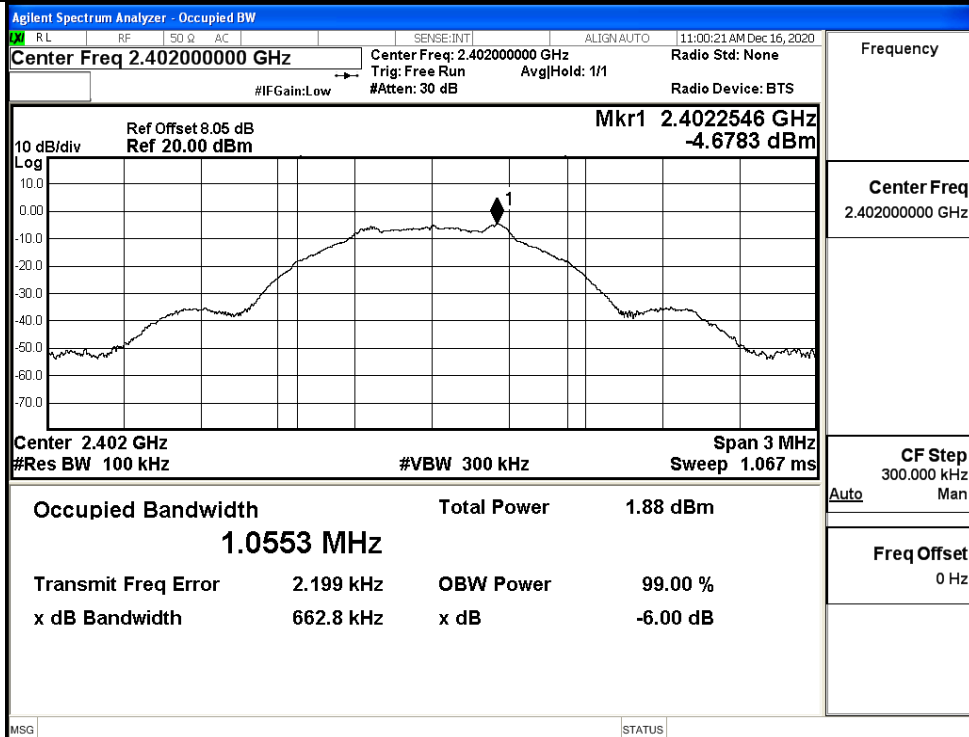


## B.4 6dB Bandwidth

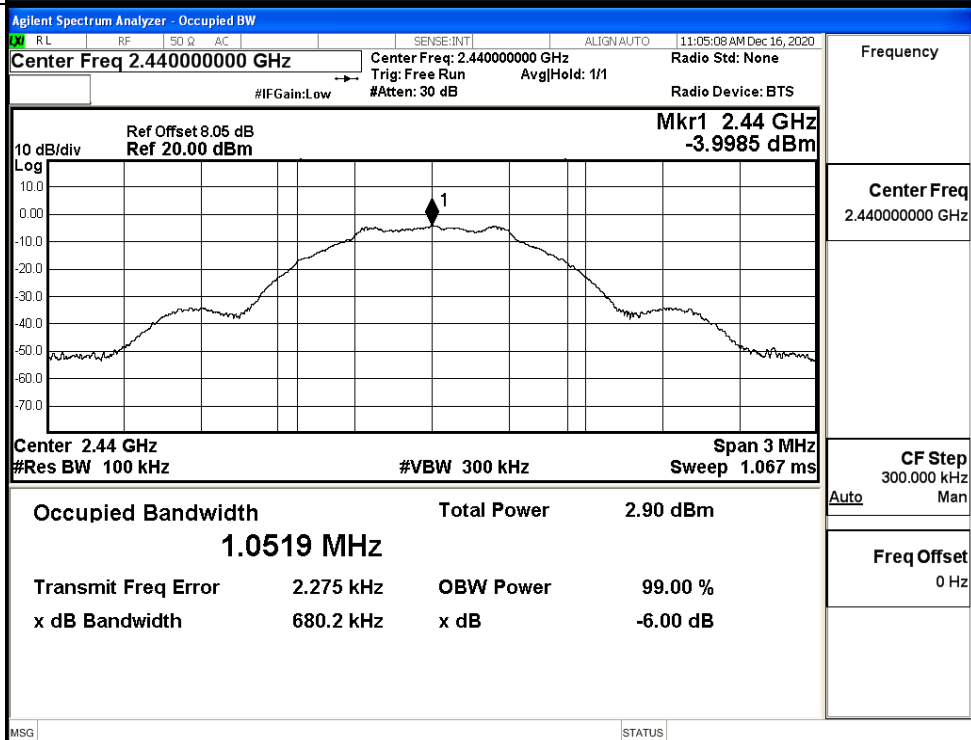
| Mode  | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-------|---------|---------------------|-------------|---------|
| BT LE | LCH     | 0.6628              | $\geq 0.5$  | PASS    |
| BT LE | MCH     | 0.6802              | $\geq 0.5$  | PASS    |
| BT LE | HCH     | 0.6623              | $\geq 0.5$  | PASS    |

## Test Graphs

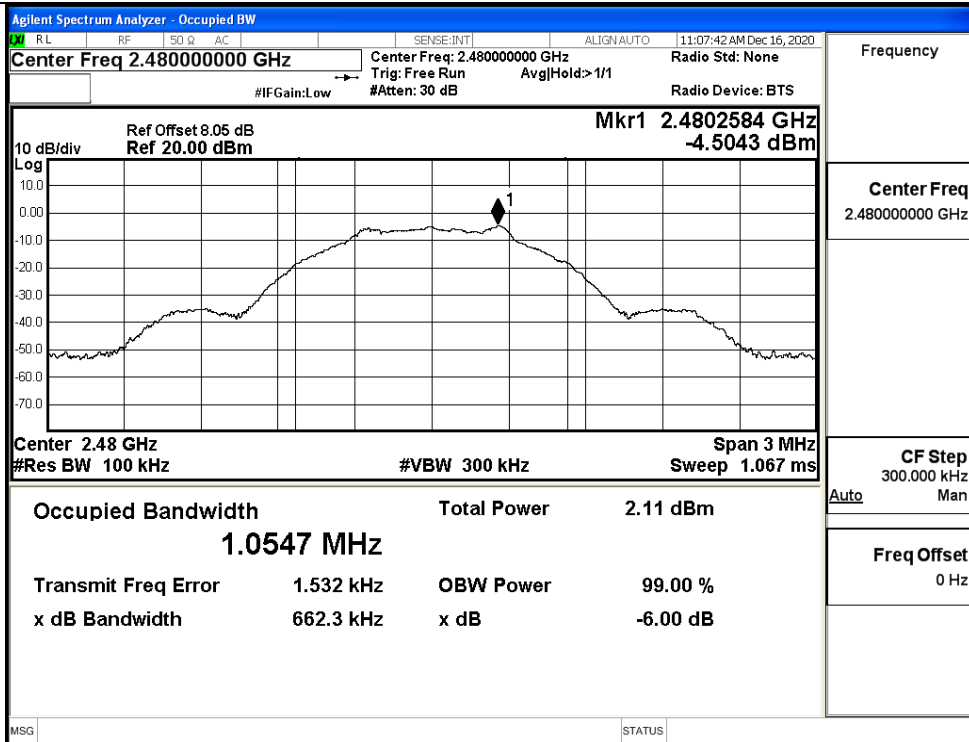
LCH



MCH



HCH

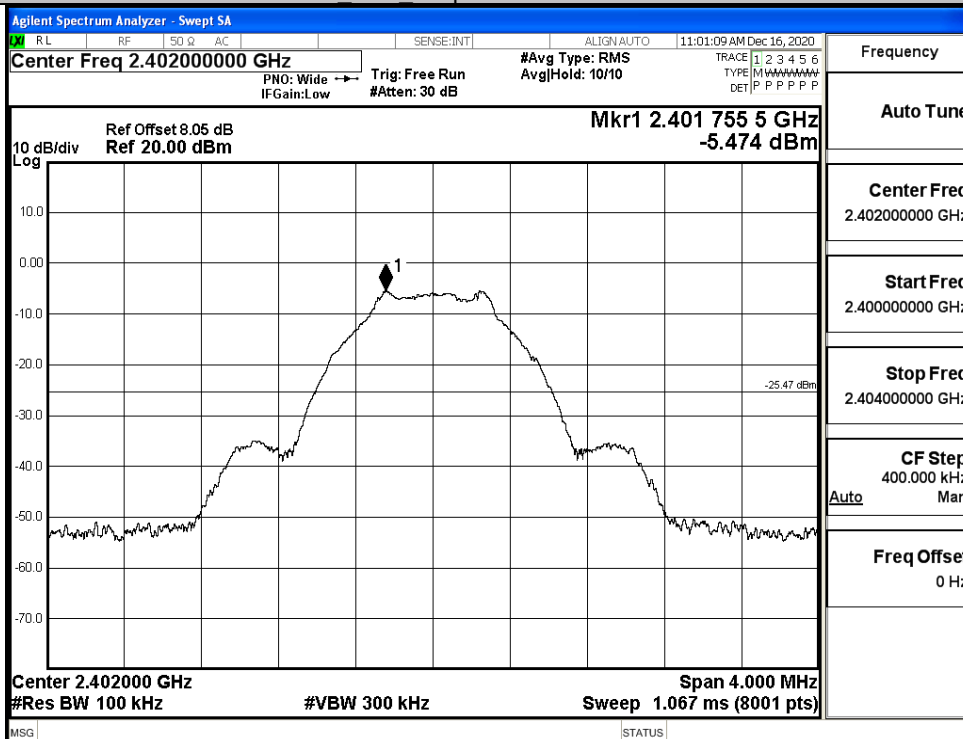


## B.5 RF Conducted Spurious Emissions

| Mode  | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|------------|------------------|-------------|---------|
| BT LE | LCH     | -5.474     | -36.903          | -25.474     | PASS    |
| BT LE | MCH     | -4.404     | -37.394          | -24.404     | PASS    |
| BT LE | HCH     | -4.938     | -37.972          | -24.938     | PASS    |

BT LE LCH Graphs

Pref/BT LE/LCH

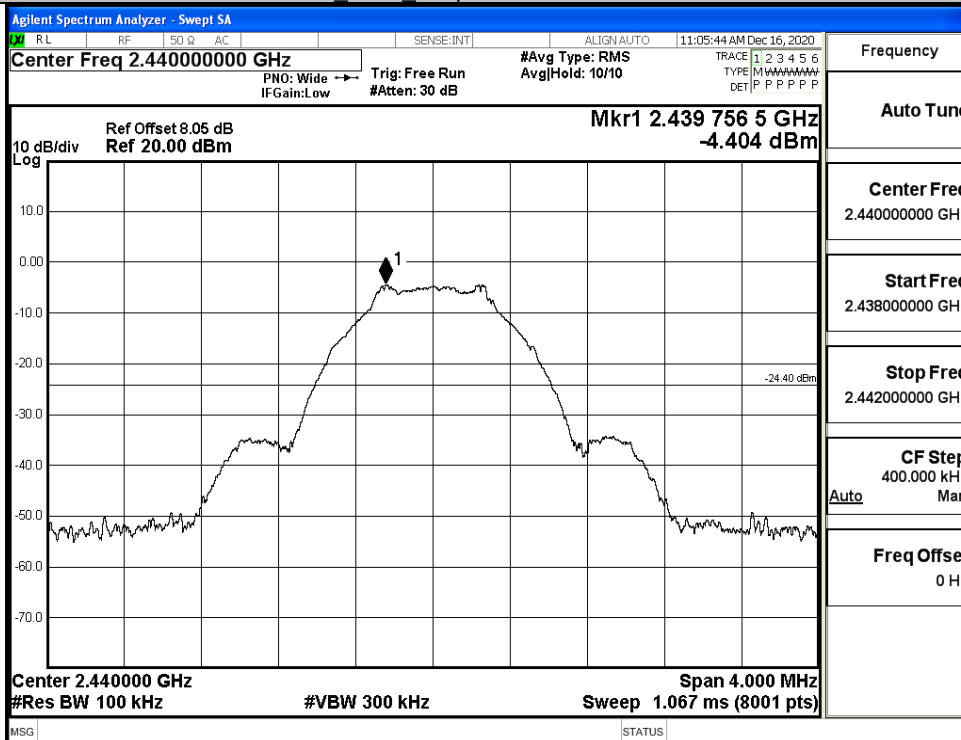


Puw/BT LE/LCH



## BT LE MCH Graphs

Pref/BT LE/MCH

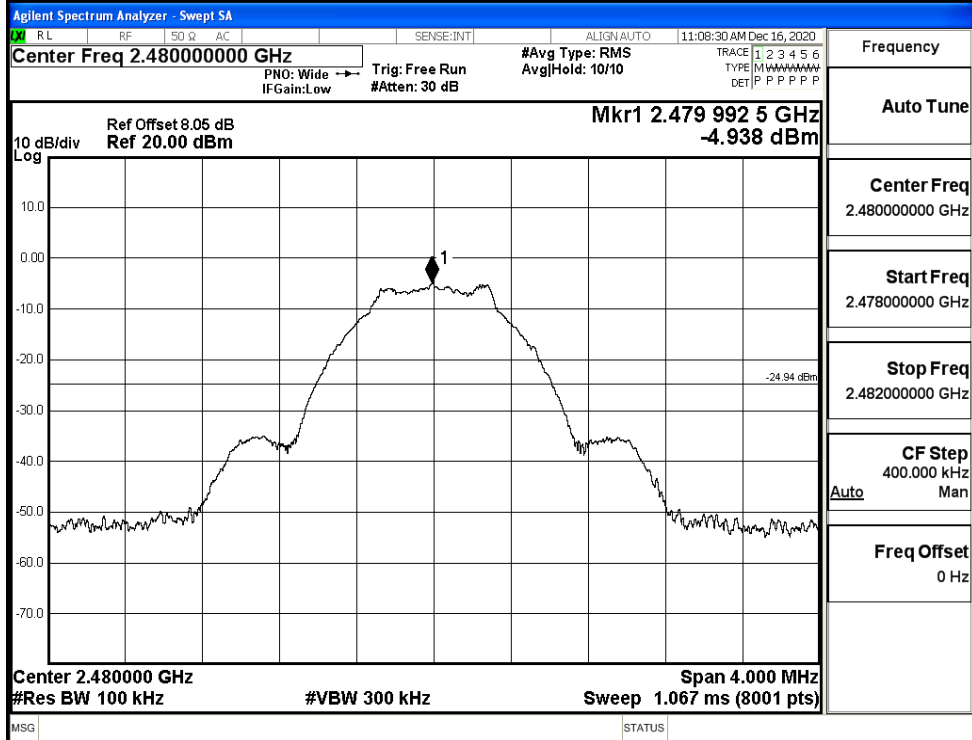


Puw/BT LE/MCH

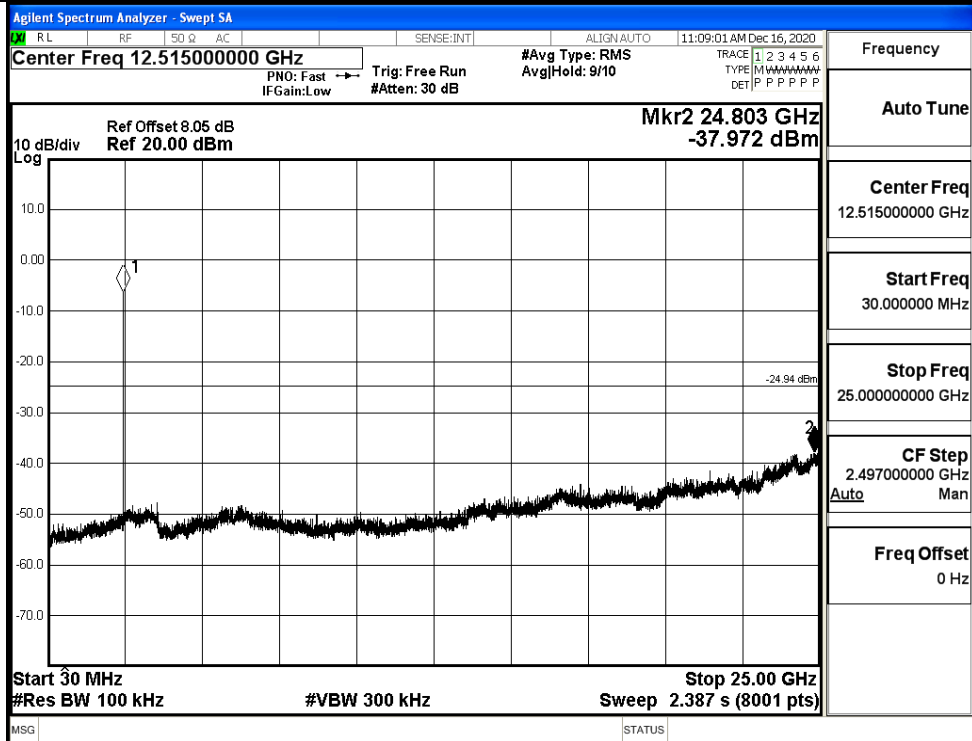


## BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

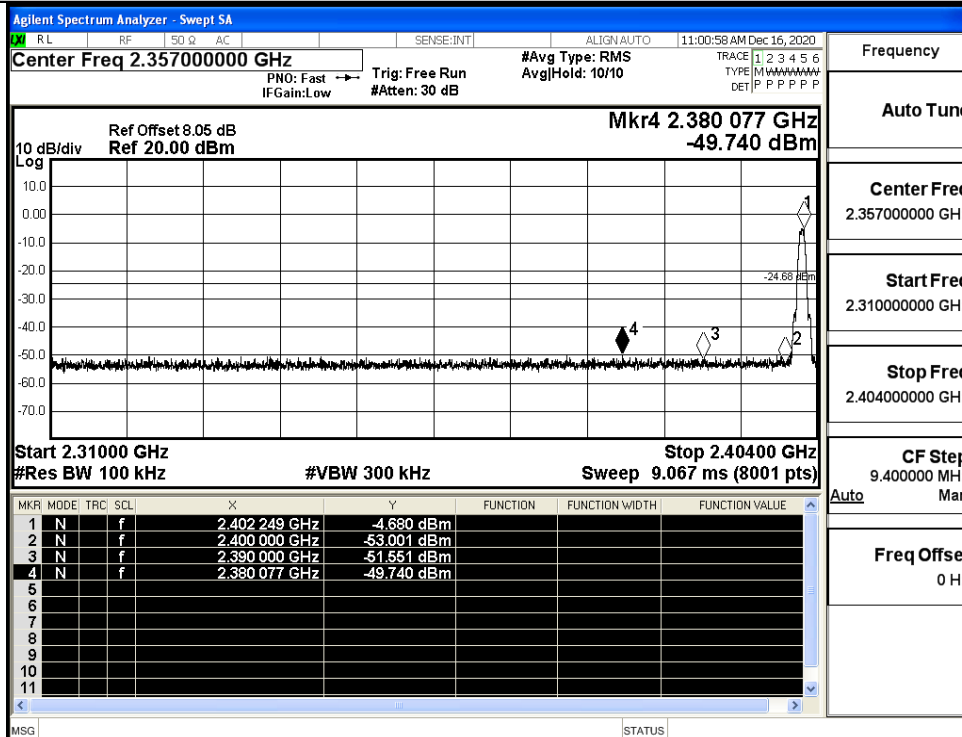


## B.6 Band-edge for RF Conducted Emissions

| Mode  | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|--------------------|--------------------------|-------------|---------|
| BT LE | LCH     | -4.680             | -49.740                  | -24.68      | PASS    |
| BT LE | HCH     | -4.774             | -49.034                  | -24.77      | PASS    |

## Test Graphs

LCH

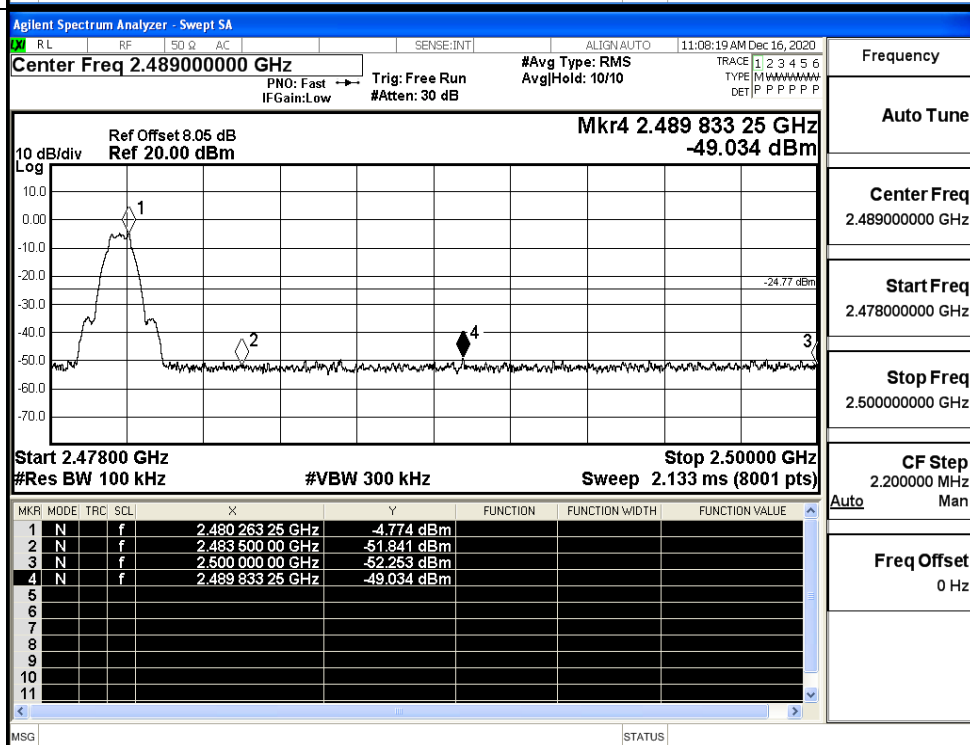


Frequency

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

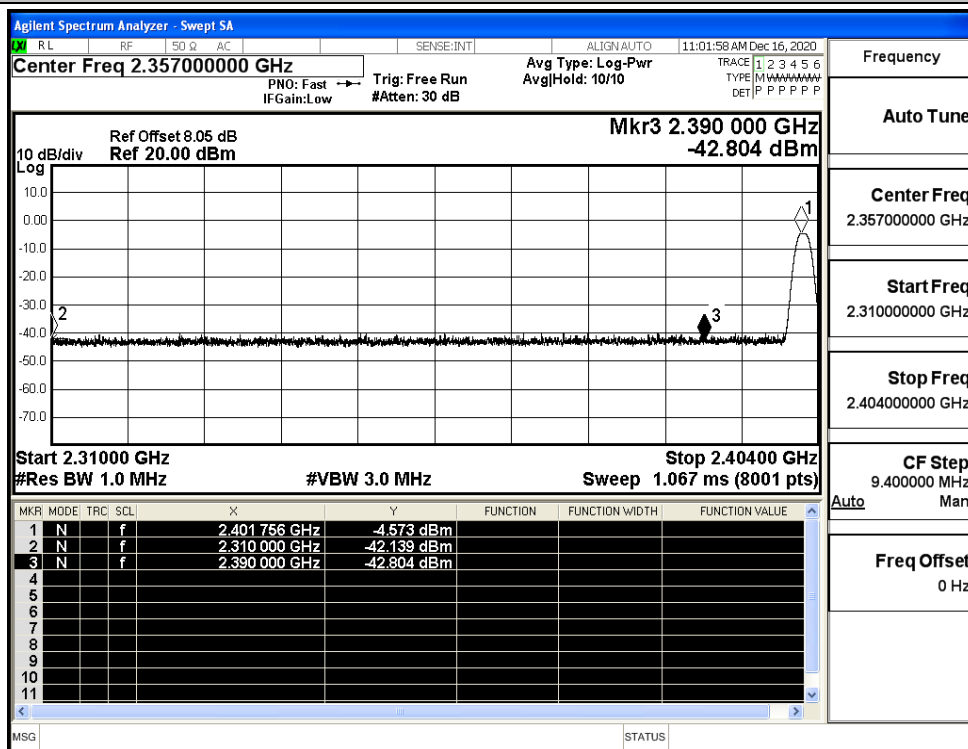
Auto Tune

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

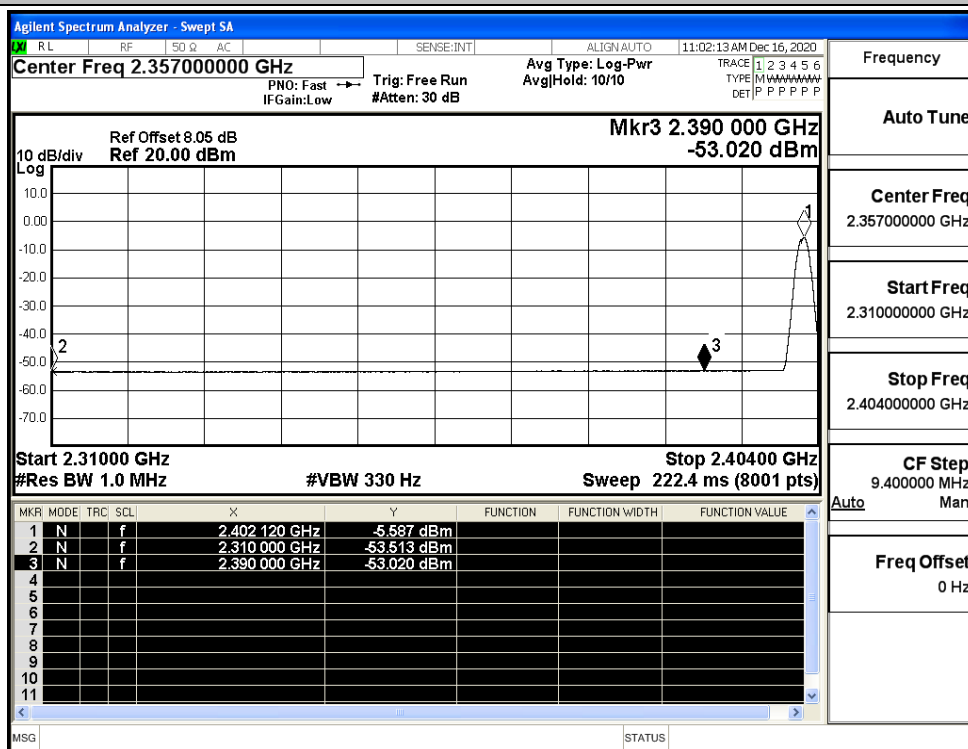
**B.7 Restrict-band band-edge measurements**

| 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 | -42.14      | 2.1  | 0             | 55.19      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2310.0 | -53.51      | 2.1  | 0             | 43.82      | AV       | 54             | PASS  |
|           |              | Ant1 | 2390.0 | -42.80      | 2.1  | 0             | 54.53      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2390.0 | -53.02      | 2.1  | 0             | 44.31      | AV       | 54             | PASS  |
|           | 2480         | Ant1 | 2483.5 | -42.58      | 2.1  | 0             | 54.75      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2483.5 | -52.69      | 2.1  | 0             | 44.64      | AV       | 54             | PASS  |
|           |              | Ant1 | 2500.0 | -40.70      | 2.1  | 0             | 56.63      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2500.0 | -52.40      | 2.1  | 0             | 44.93      | AV       | 54             | PASS  |

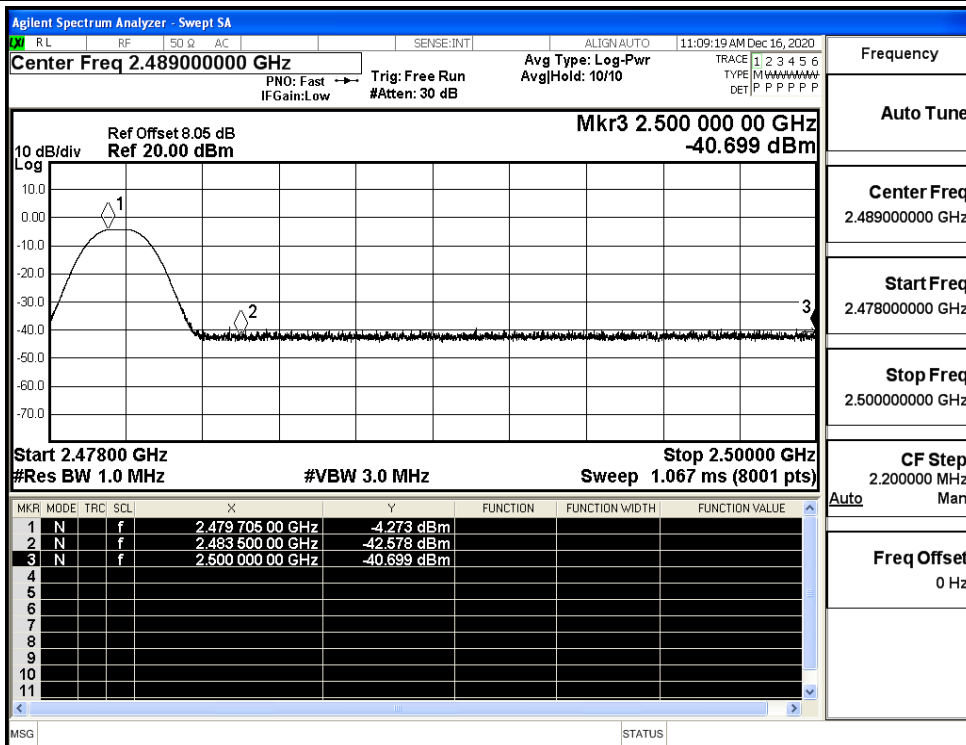
## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



## 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

