

## Appendix B

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

Product Name: Pando humanoid robot



Trade Mark:

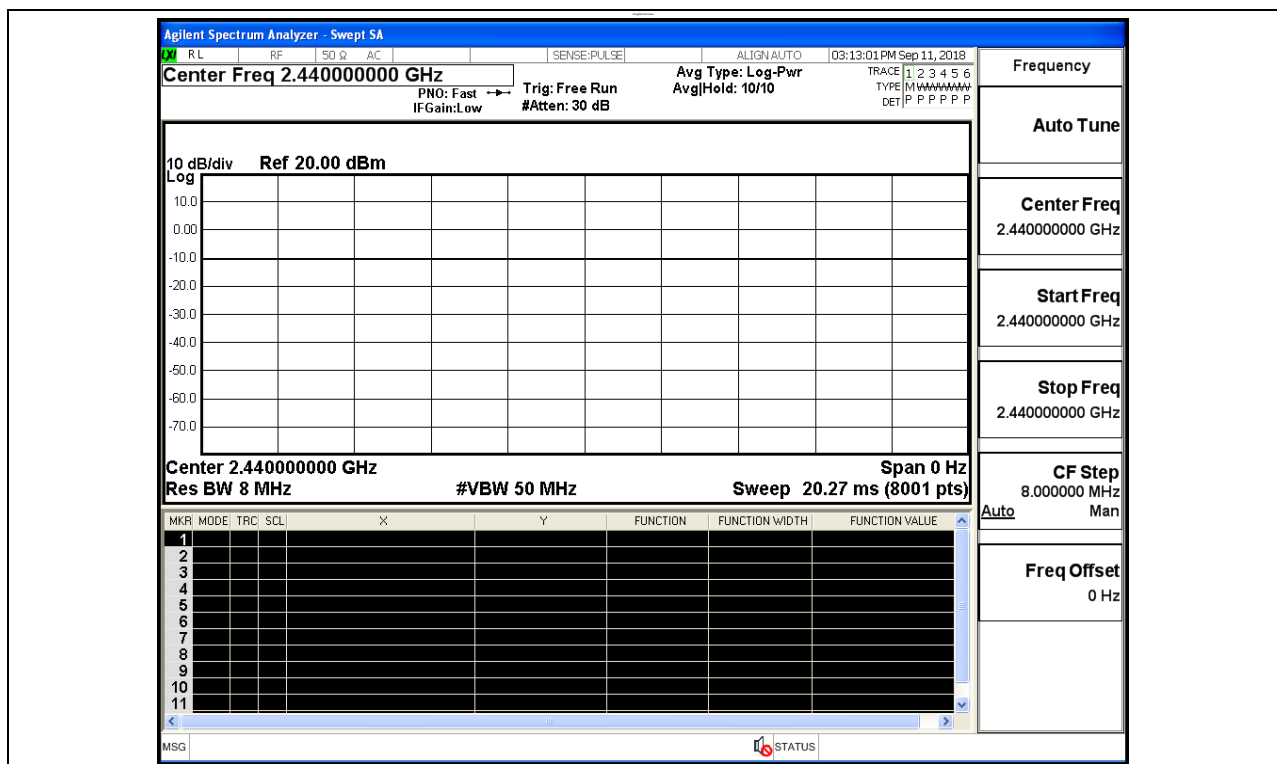
Test Model: Pando

#### Environmental Conditions

|                    |             |
|--------------------|-------------|
| Temperature:       | 24.5 ° C    |
| Relative Humidity: | 54.2%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Mina.Xu     |
| Supervised by:     | Jayden.Zhuo |

#### B.1 Duty Cycle

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

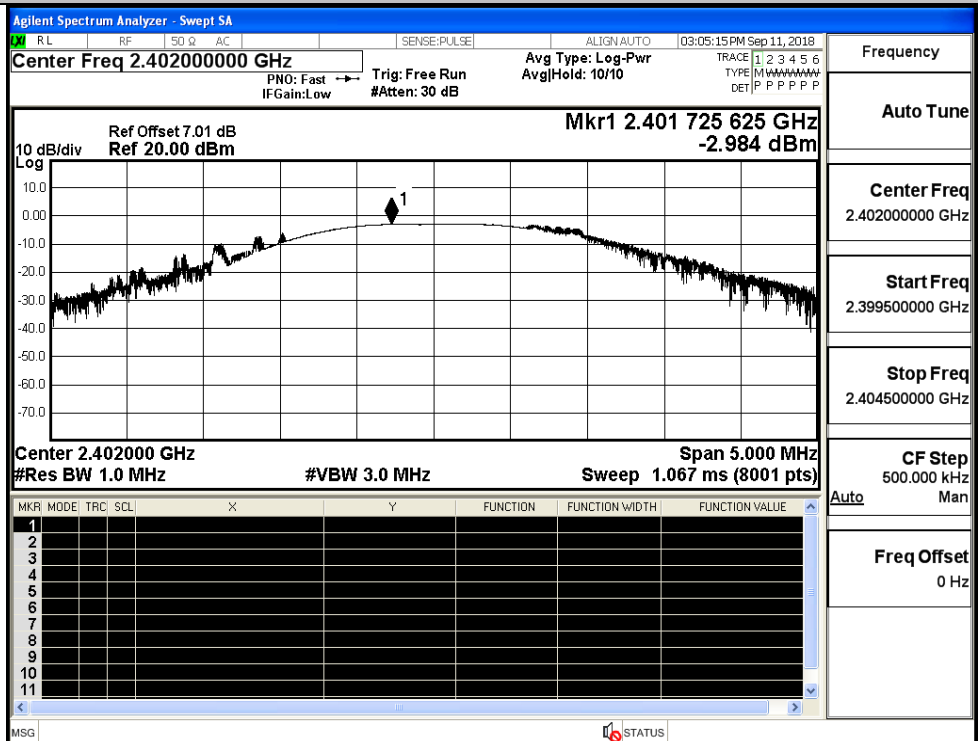


## B.2 Maximum Conducted Peak Output Power

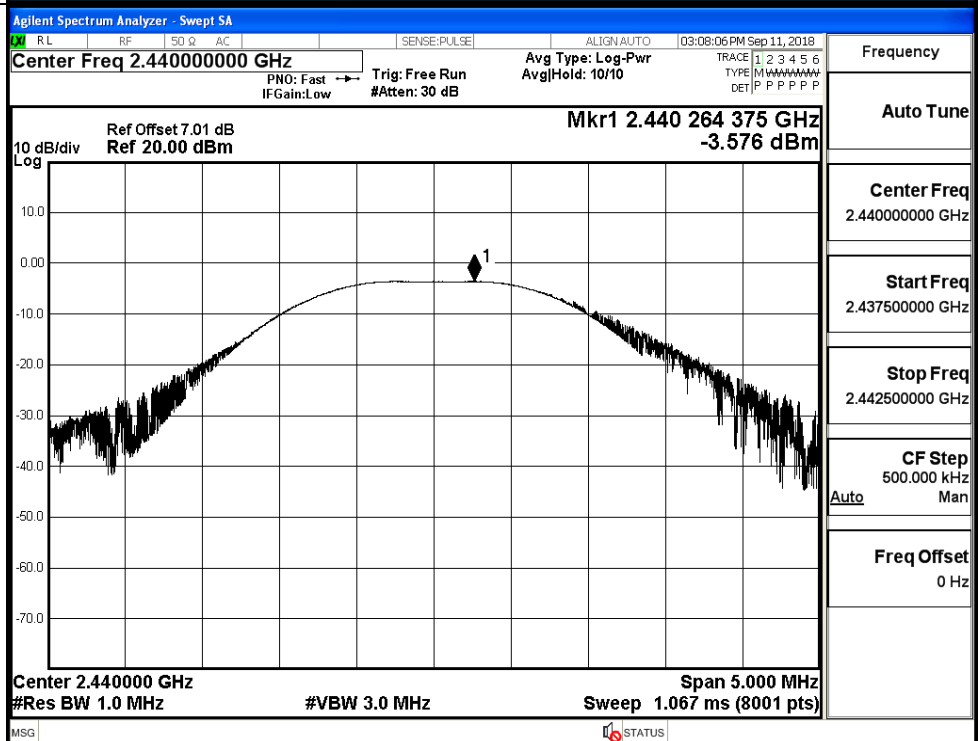
| Mode  | Channel | Conduct Peak Power[dBm] | Limit [dBm] | Verdict |
|-------|---------|-------------------------|-------------|---------|
| BT LE | LCH     | -2.984                  | 30          | PASS    |
| BT LE | MCH     | -3.576                  | 30          | PASS    |
| BT LE | HCH     | -4.426                  | 30          | PASS    |

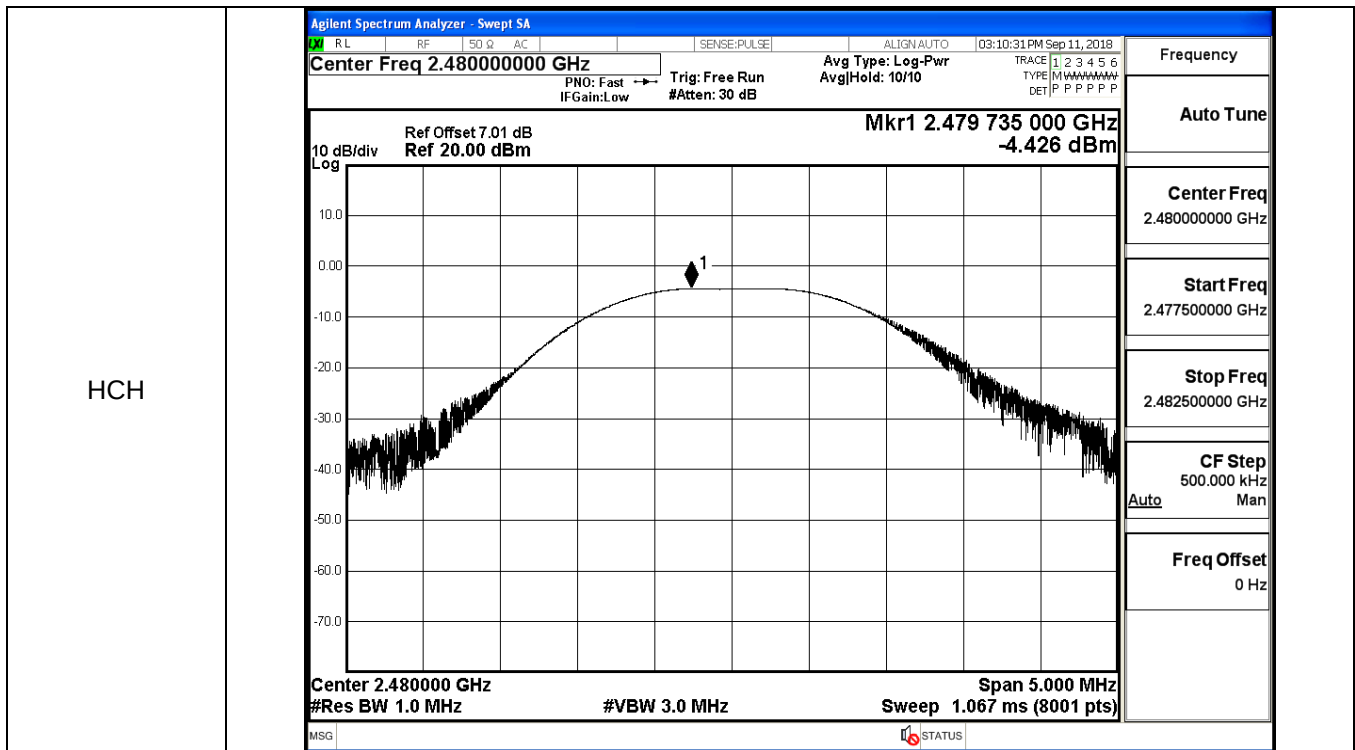
### Test Graphs

LCH



MCH



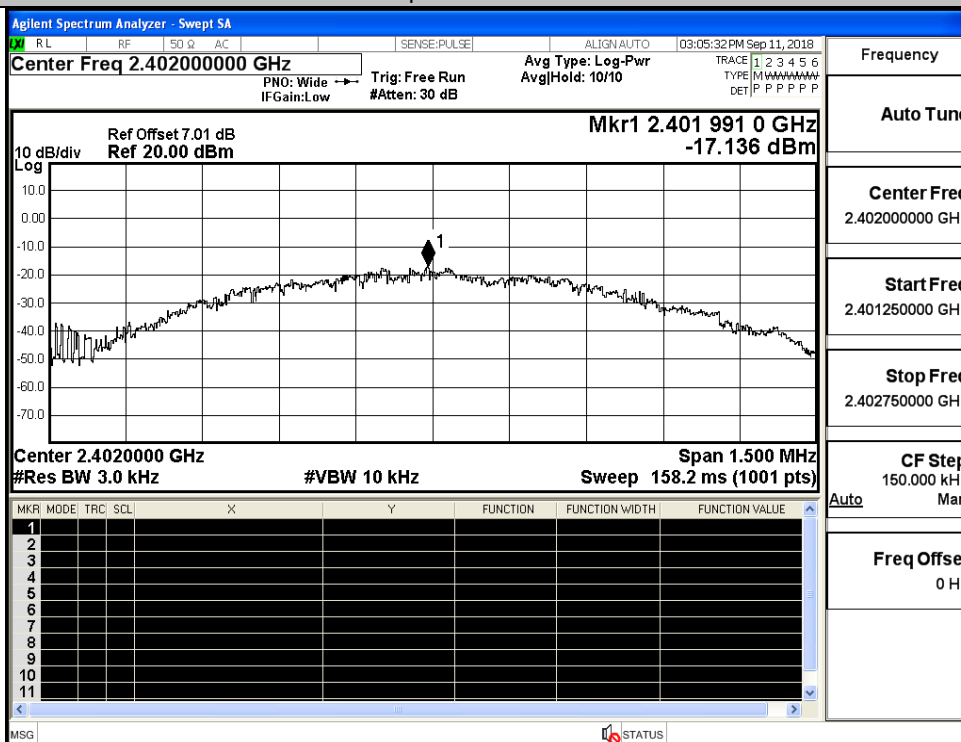


## B.3 Maximum Power Spectral Density

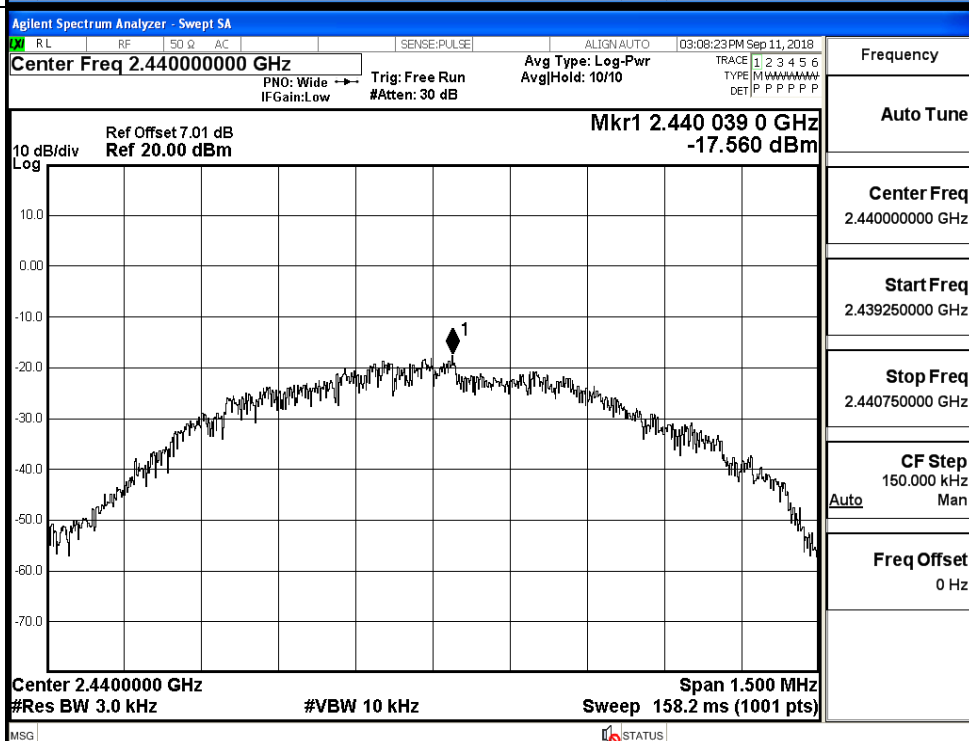
| Mode  | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-------|---------|----------------|------------------|---------|
| BT LE | LCH     | -17.136        | 8                | PASS    |
| BT LE | MCH     | -17.560        | 8                | PASS    |
| BT LE | HCH     | -18.647        | 8                | PASS    |

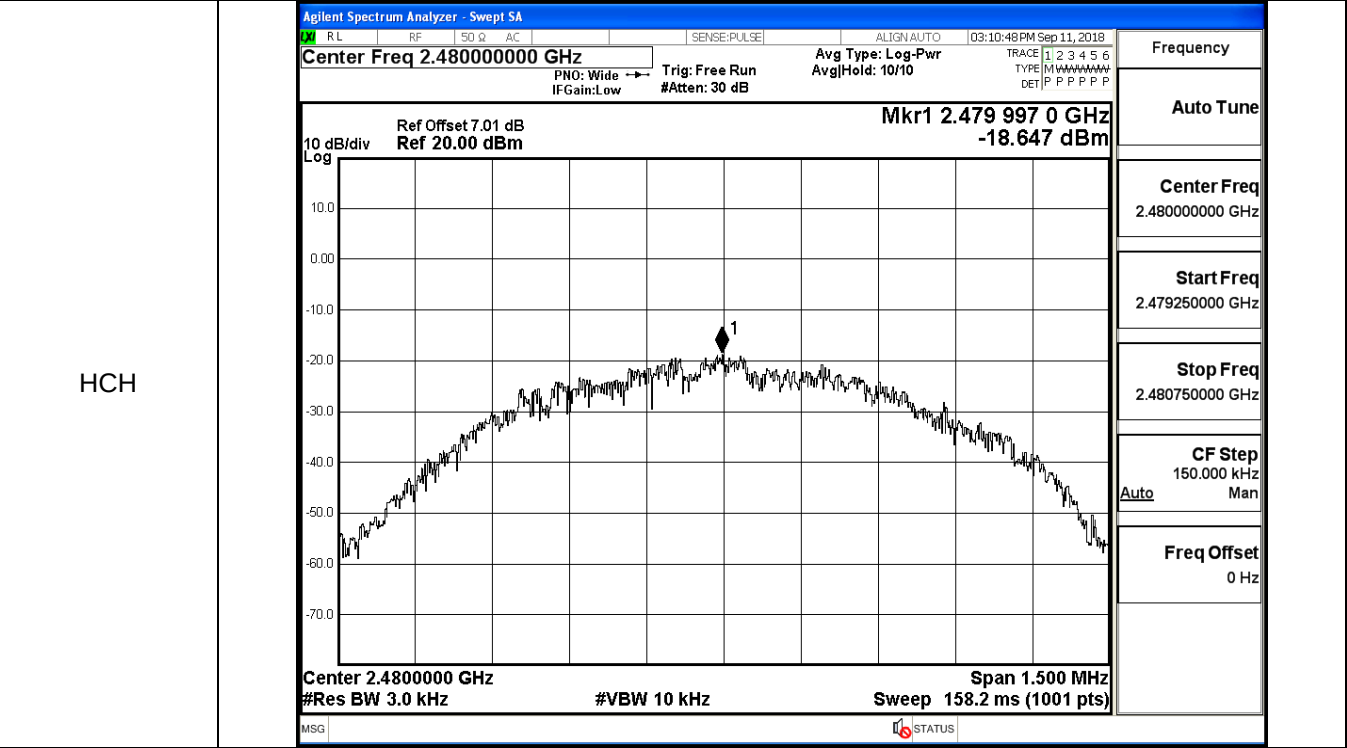
## Test Graphs

LCH



MCH





## B.4 6dB Bandwidth

| Mode  | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-------|---------|---------------------|-------------|---------|
| BT LE | LCH     | 0.8077              | $\geq 0.5$  | PASS    |
| BT LE | MCH     | 0.6727              | $\geq 0.5$  | PASS    |
| BT LE | HCH     | 0.6789              | $\geq 0.5$  | PASS    |

## Test Graphs

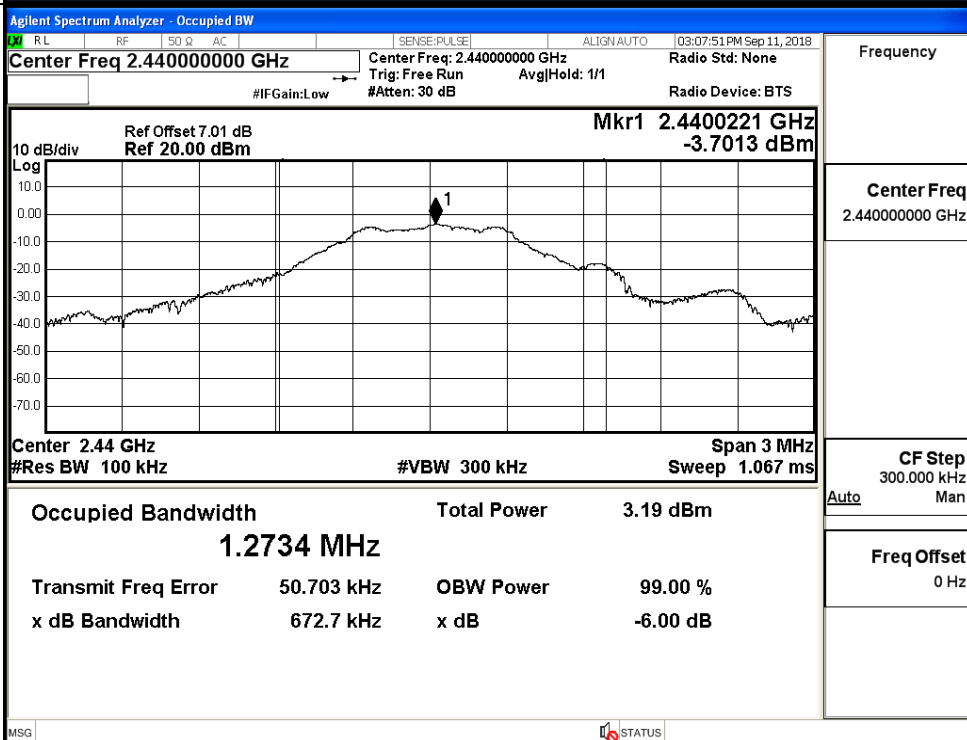
LCH



Frequency

Center Freq  
2.402000000 GHzCF Step  
300.000 kHz  
Auto ManFreq Offset  
0 Hz

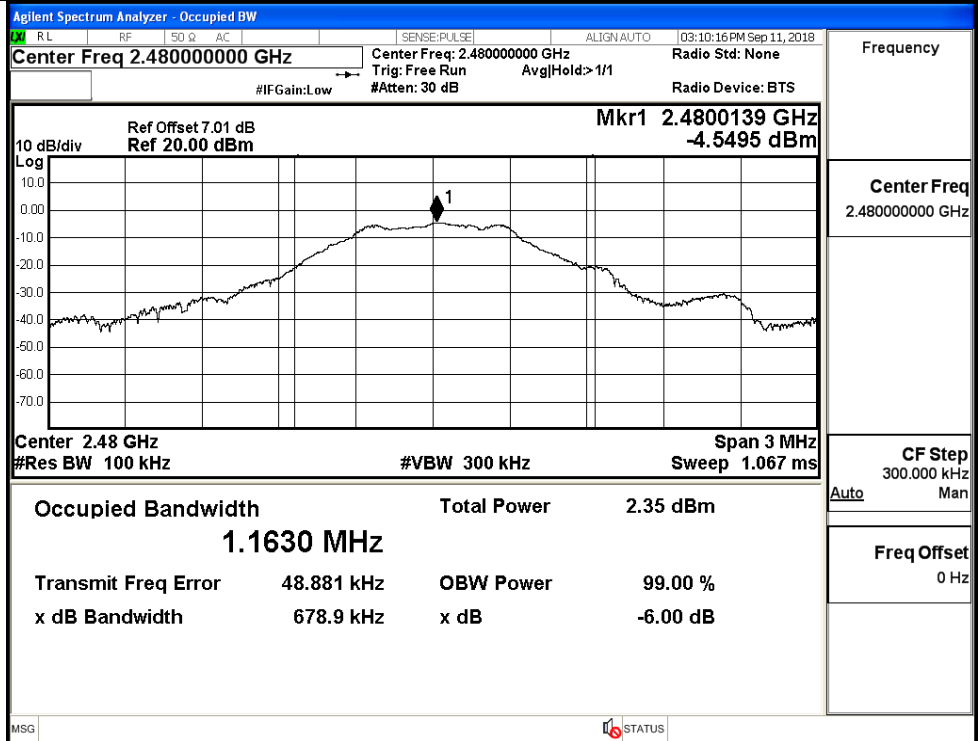
MCH



Frequency

Center Freq  
2.440000000 GHzCF Step  
300.000 kHz  
Auto ManFreq Offset  
0 Hz

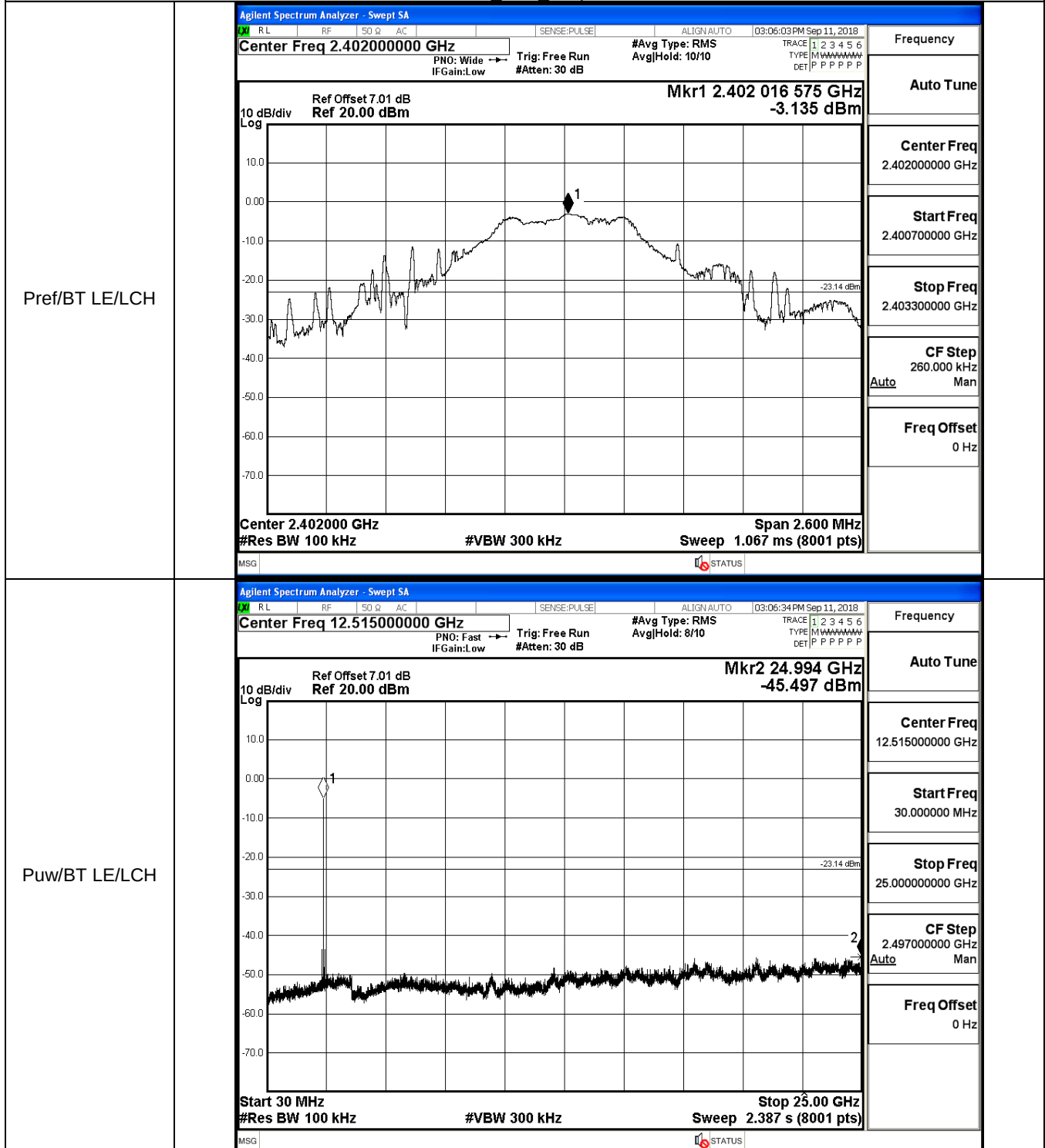
HCH



## B.5 RF Conducted Spurious Emissions

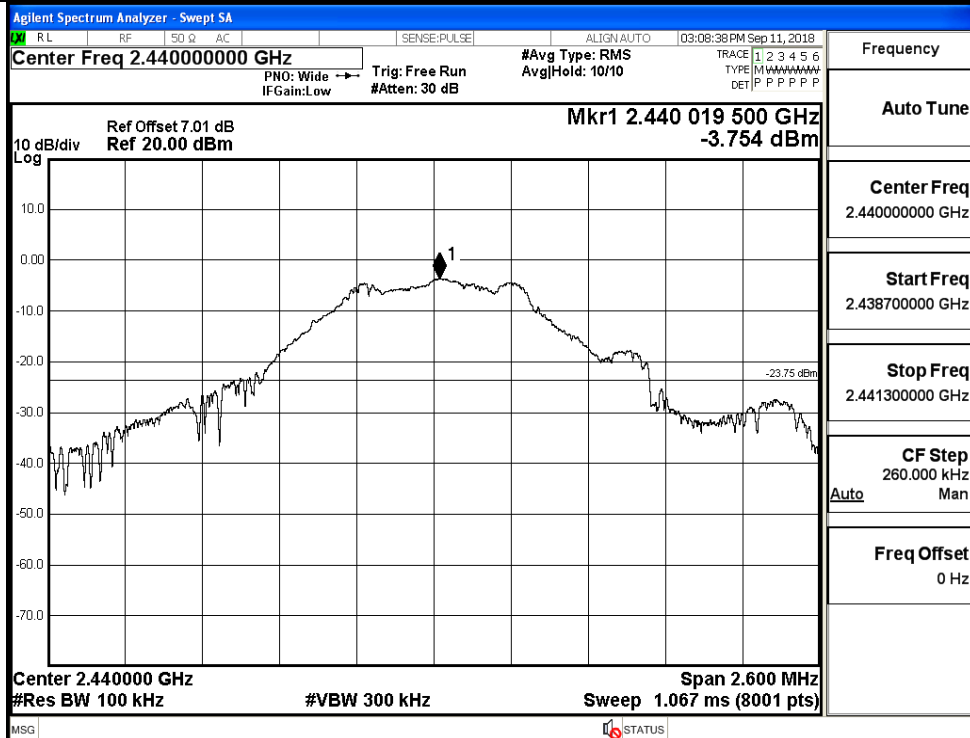
| Mode  | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|------------|------------------|-------------|---------|
| BT LE | LCH     | -3.135     | -45.497          | -23.135     | PASS    |
| BT LE | MCH     | -3.754     | -43.891          | -23.754     | PASS    |
| BT LE | HCH     | -4.521     | -44.939          | -24.521     | PASS    |

BT LE LCH Graphs

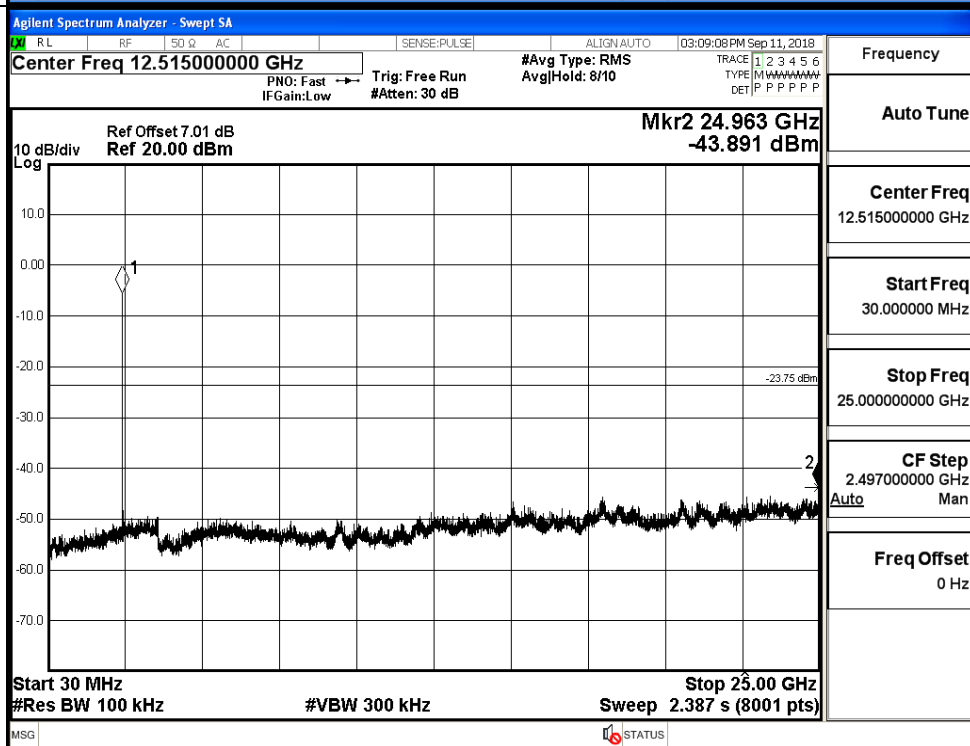


## BT LE MCH Graphs

Pref/BT LE/MCH

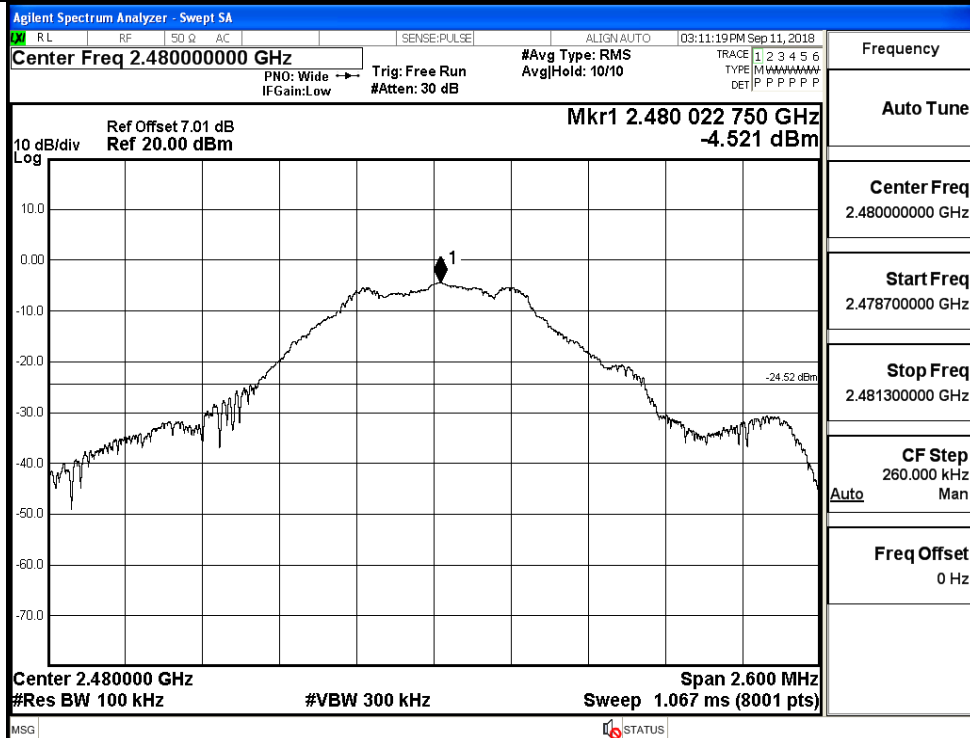


Puw/BT LE/MCH

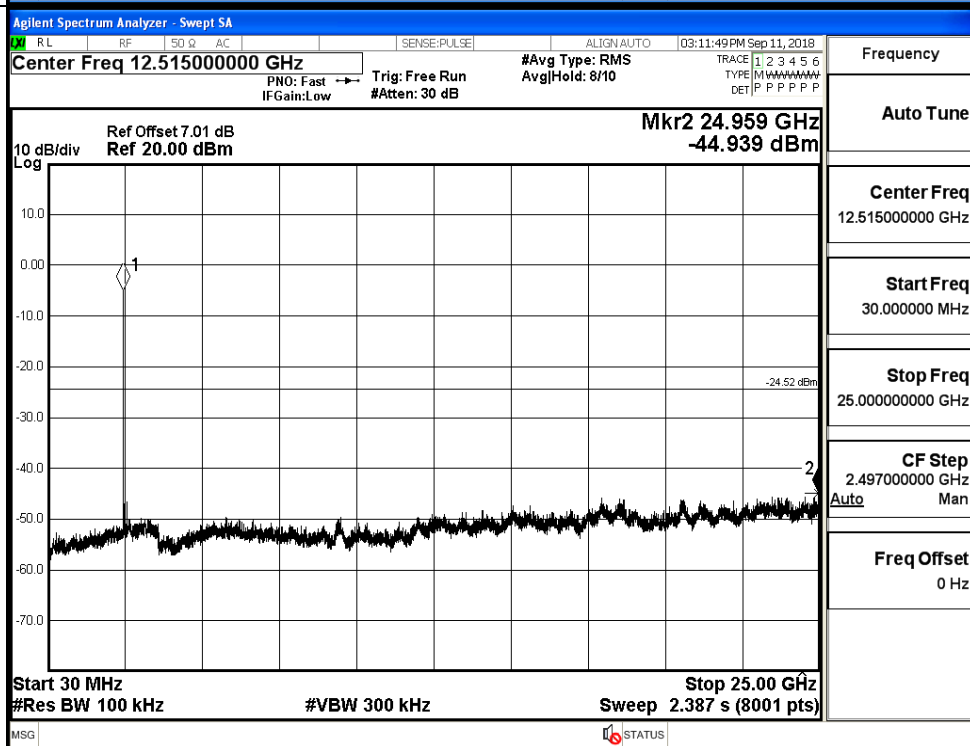


## BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

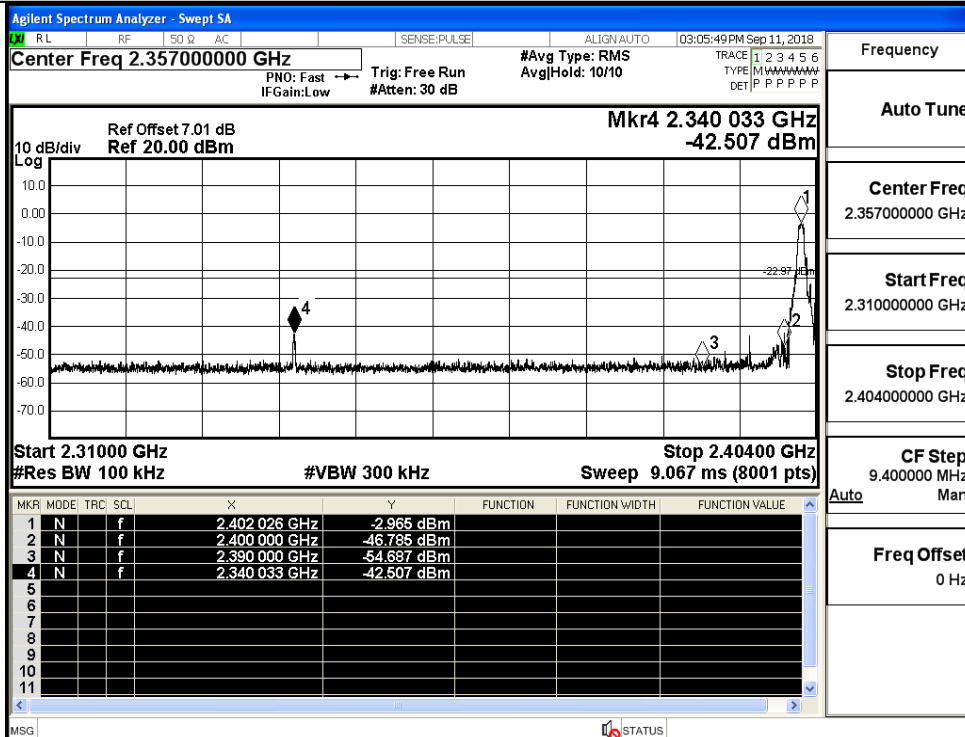


## B.6 Band-edge for RF Conducted Emissions

| Mode  | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-------|---------|--------------------|--------------------------|-------------|---------|
| BT LE | LCH     | -2.965             | -42.507                  | -22.97      | PASS    |
| BT LE | HCH     | -4.368             | -50.302                  | -24.37      | PASS    |

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

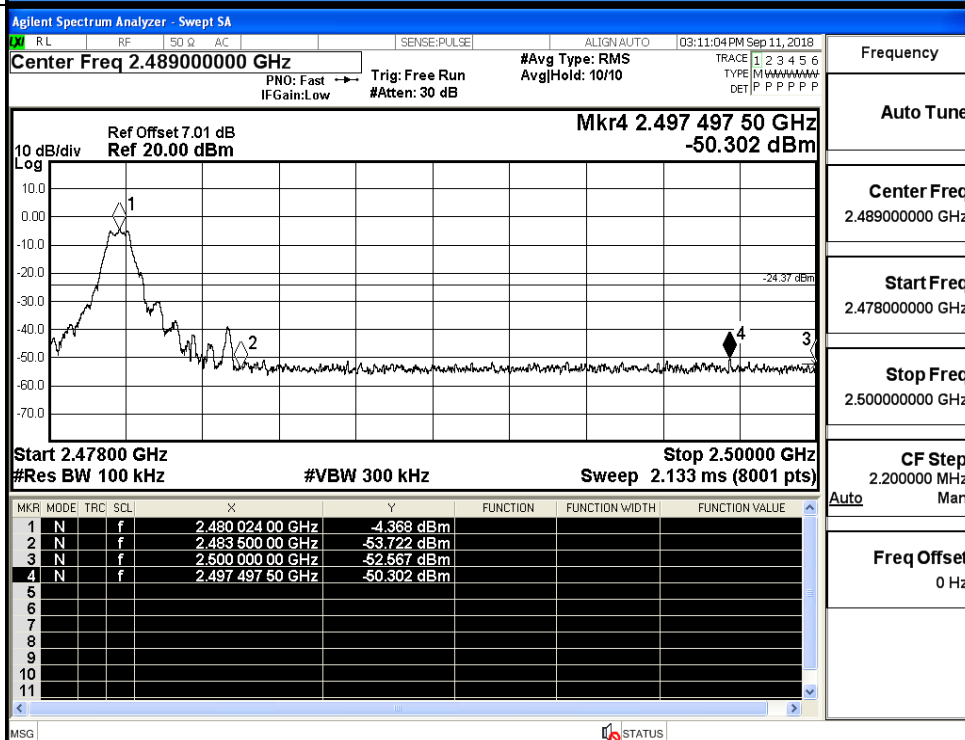
9.400000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.489000000 GHz

Start Freq

2.478000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.200000 MHz

Auto Man

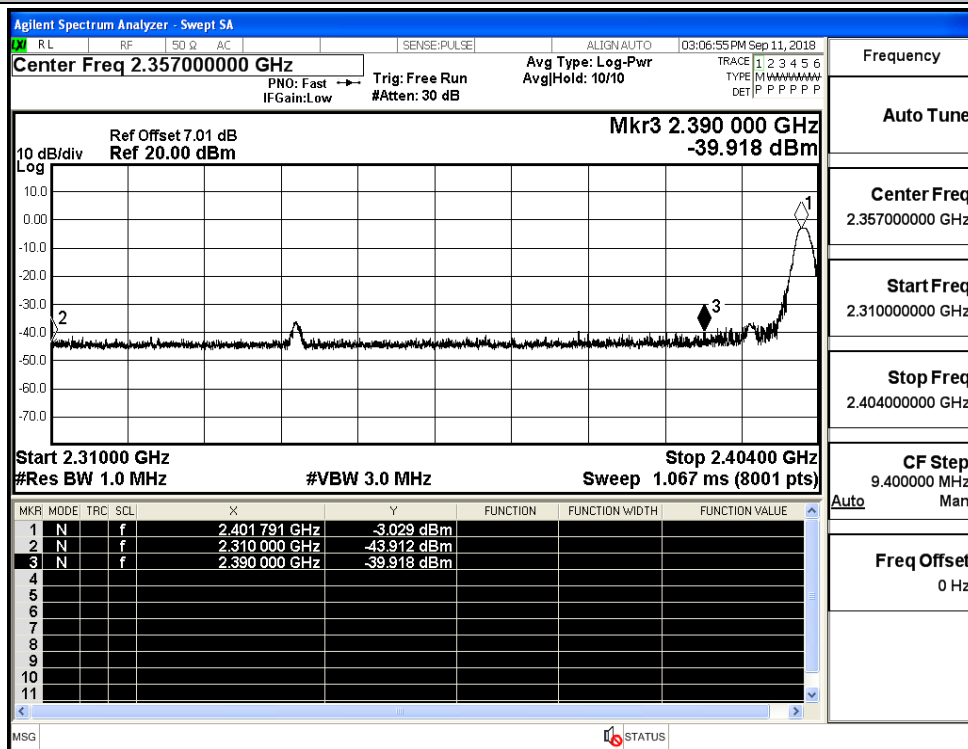
Freq Offset

0 Hz

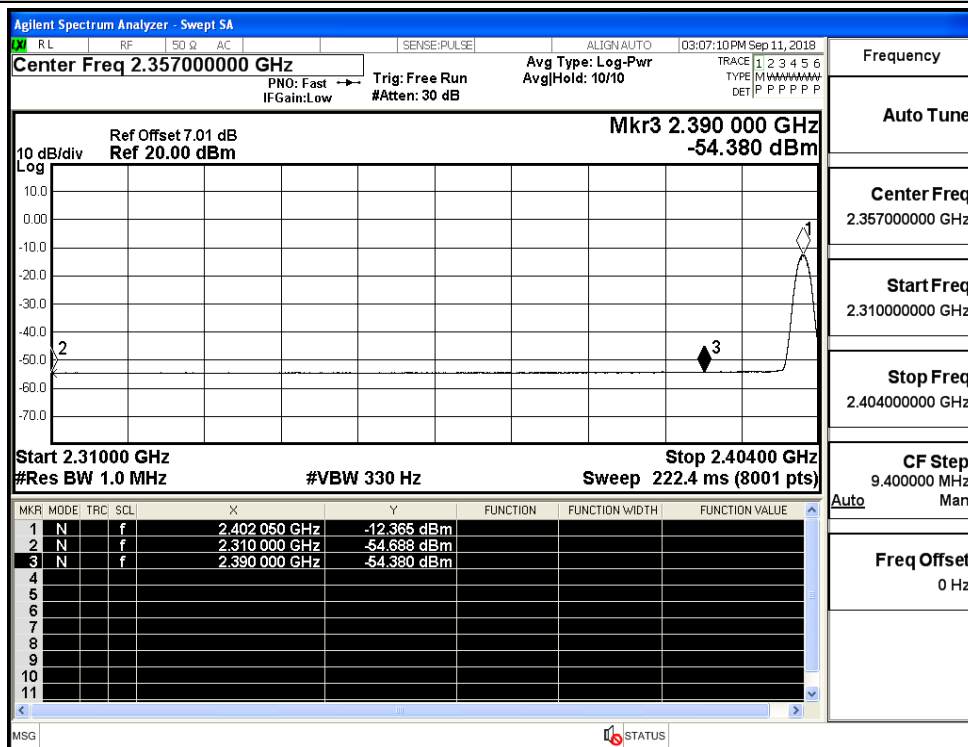
**B.7 Restrict-band band-edge measurements**

| 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 | -43.91      | 2.0  | 0             | 53.35      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2310.0 | -54.69      | 2.0  | 0             | 42.57      | AV       | 54             | PASS  |
|           |              | Ant1 | 2390.0 | -39.92      | 2.0  | 0             | 57.34      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2390.0 | -54.38      | 2.0  | 0             | 42.88      | AV       | 54             | PASS  |
|           | 2480         | Ant1 | 2483.5 | -38.26      | 2.0  | 0             | 59.00      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2483.5 | -53.70      | 2.0  | 0             | 43.56      | AV       | 54             | PASS  |
|           |              | Ant1 | 2500.0 | -44.45      | 2.0  | 0             | 52.81      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2500.0 | -53.96      | 2.0  | 0             | 43.30      | AV       | 54             | PASS  |

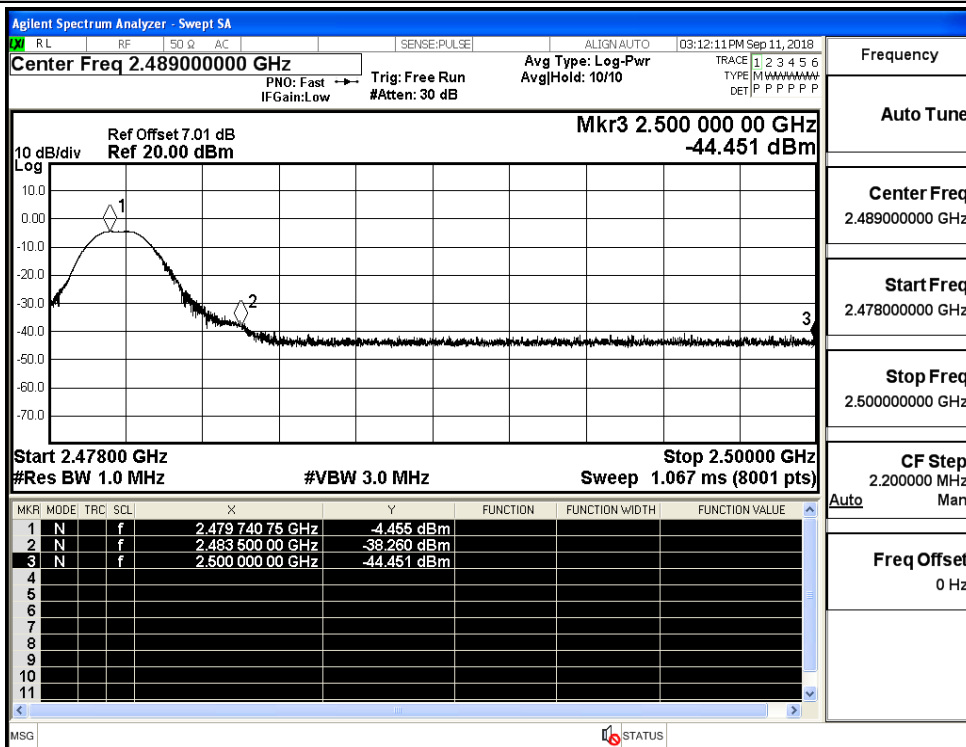
## Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



## 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

