

## Appendix A

### RF Test Data for 2.4G (Conducted Measurement)

Product Name: 2.4G Wireless Headphone

Trade Mark: Headrush

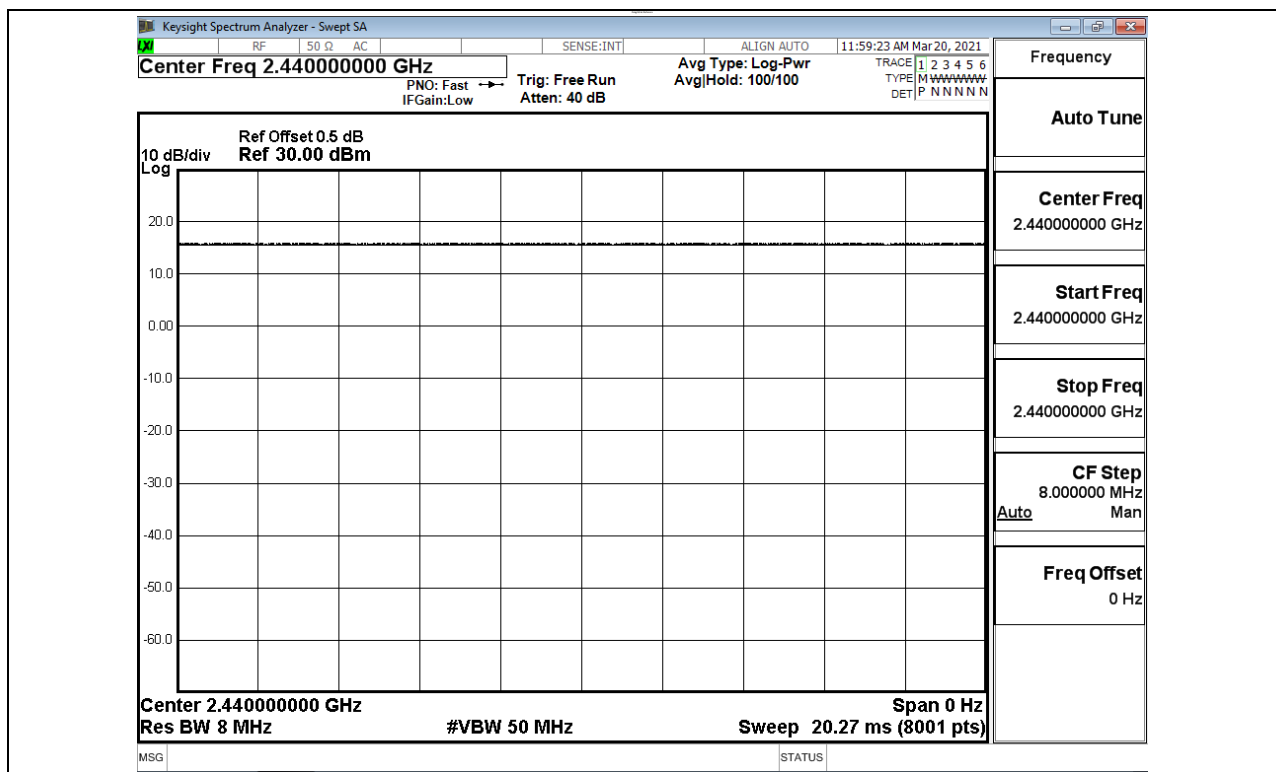
Test Model: 8081706B

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 22.9 ° C  |
| Relative Humidity: | 53.7%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Kay Hu    |
| Supervised by:     | Li Huan   |

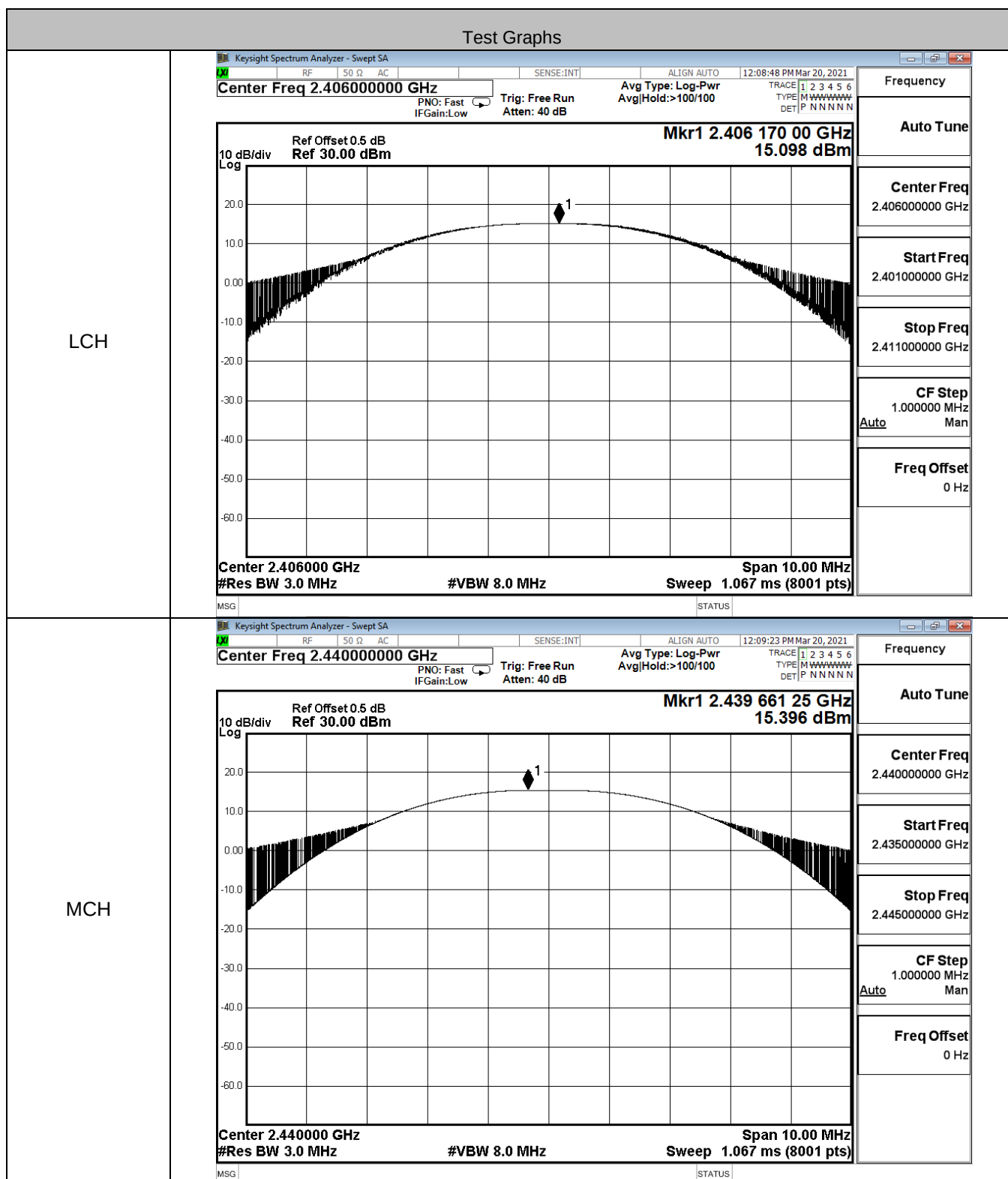
#### A.1 Duty Cycle

| Test Mode | Test Channel | Ant  | Duty Cycle[%] | Verdict |
|-----------|--------------|------|---------------|---------|
| 2.4G      | 2440         | Ant1 | 100           | PASS    |

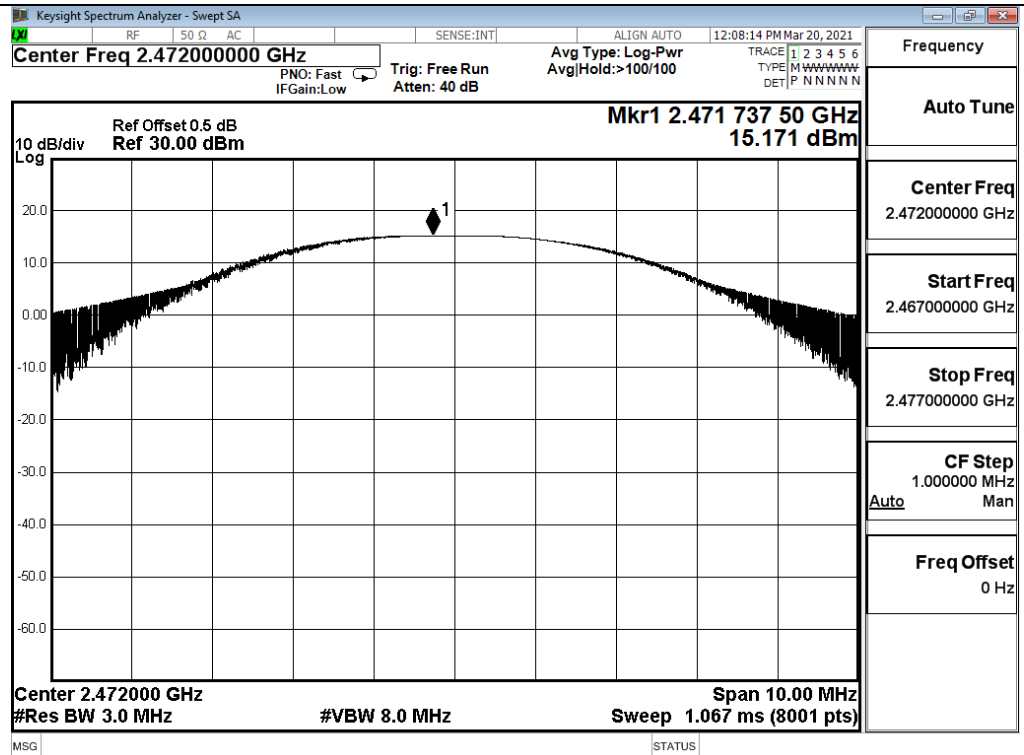


## A.2 Maximum Conducted Peak Output Power

| Mode | Channel | Conduct Peak Power[dBm] | Limit [dBm] | Verdict |
|------|---------|-------------------------|-------------|---------|
| 2.4G | LCH     | 15.098                  | 30          | PASS    |
| 2.4G | MCH     | 15.396                  | 30          | PASS    |
| 2.4G | HCH     | 15.171                  | 30          | PASS    |



HCH

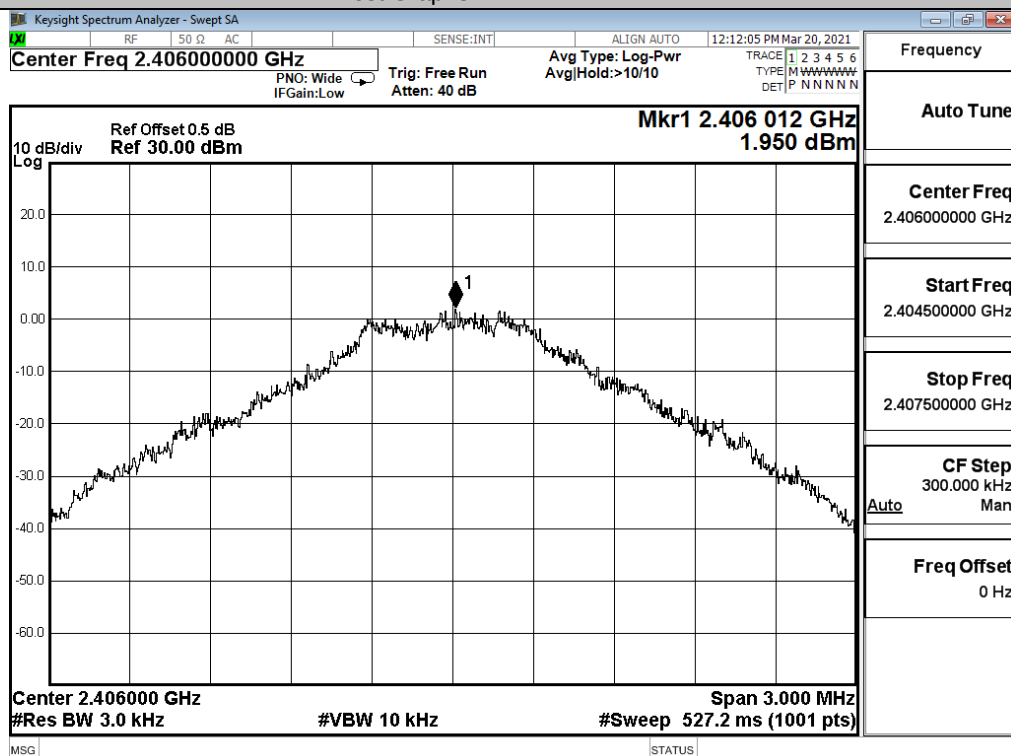


### A.3 Maximum Power Spectral Density

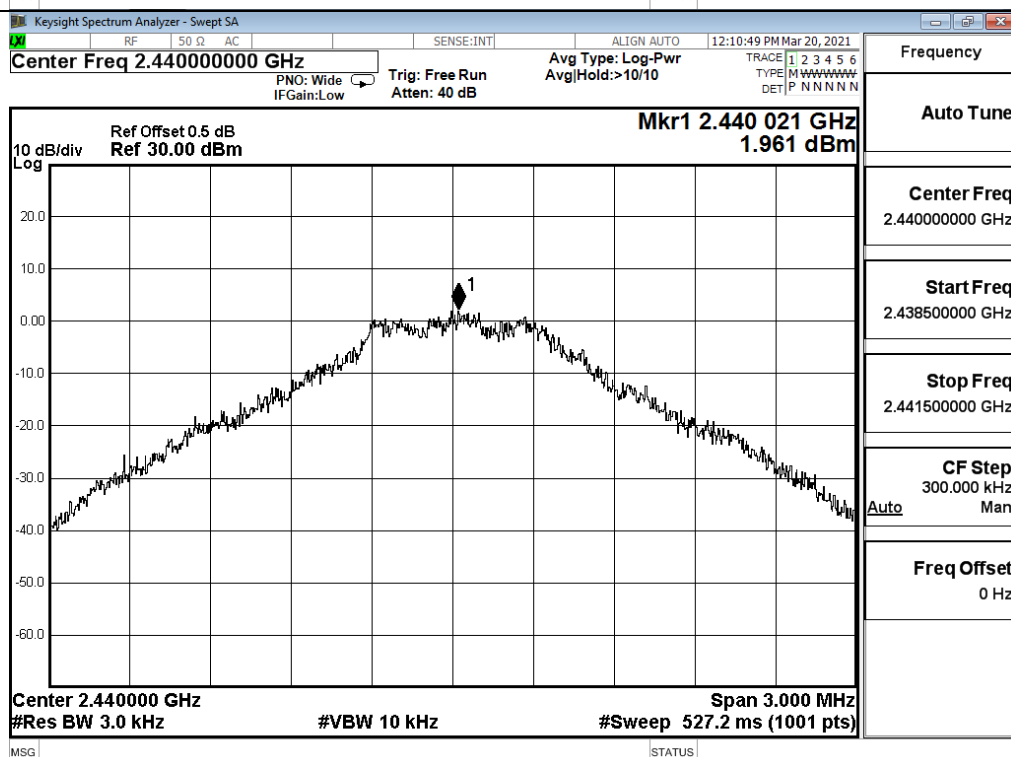
| Mode | Channel | PSD [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|------|---------|----------------|------------------|---------|
| 2.4G | LCH     | 1.950          | 8                | PASS    |
| 2.4G | MCH     | 1.961          | 8                | PASS    |
| 2.4G | HCH     | 3.114          | 8                | PASS    |

Test Graphs

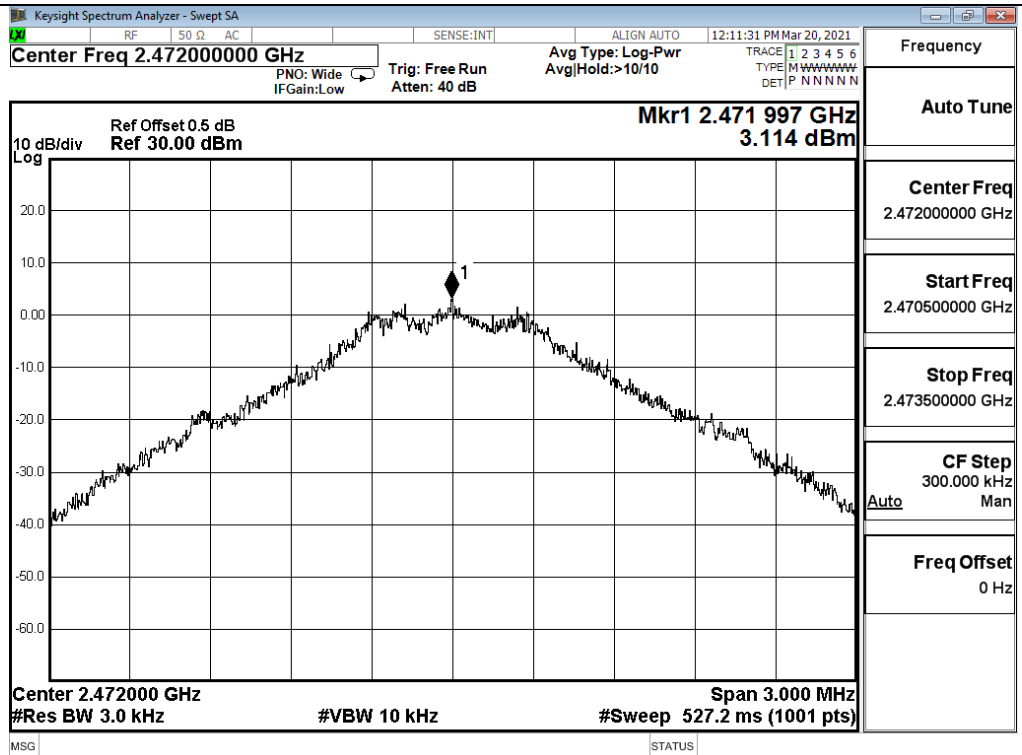
LCH



MCH



HCH

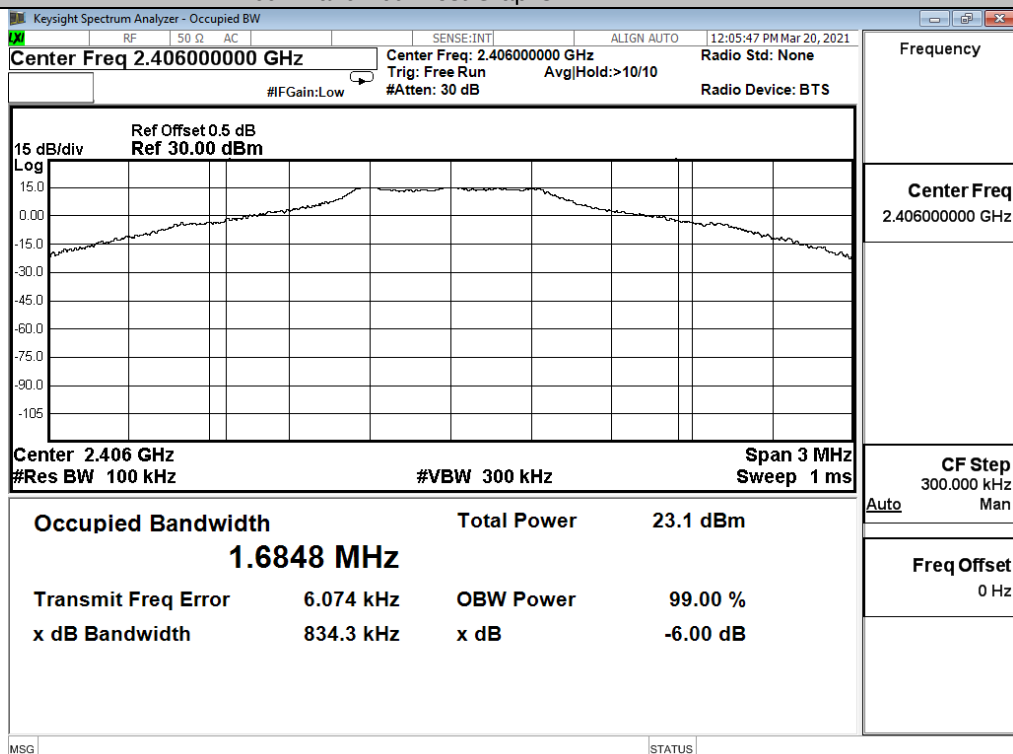


## A.4 6dB Bandwidth&amp; 99% Occupied Bandwidth

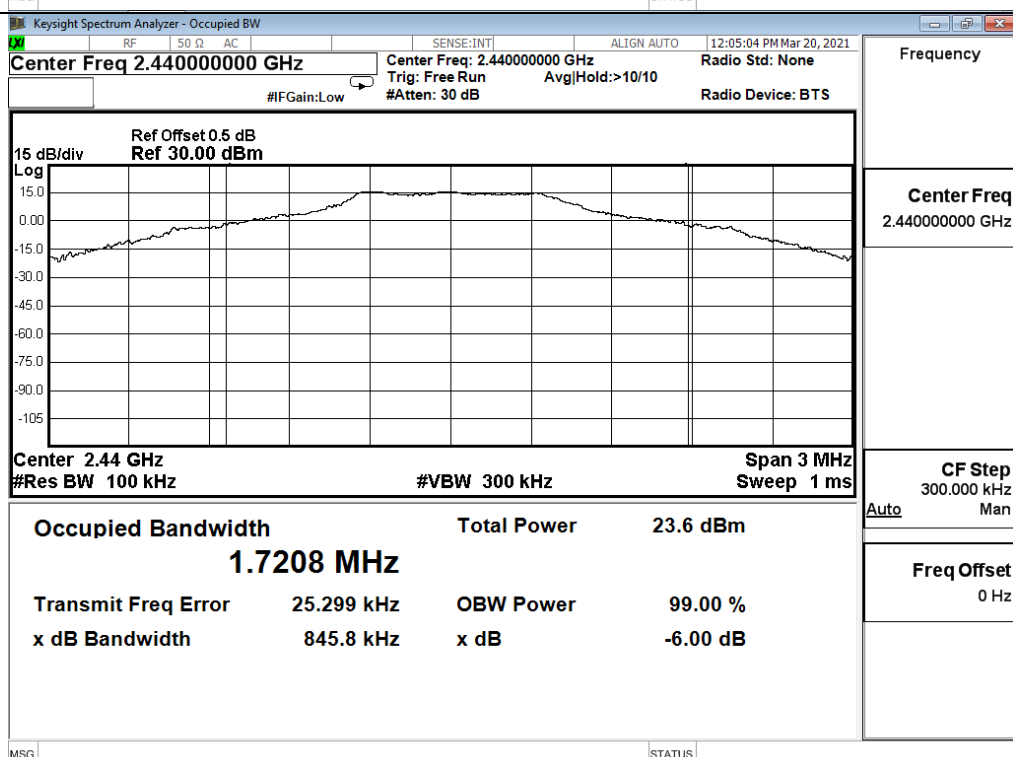
| Mode | Channel | 6dB Bandwidth [MHz] | Occupied Bandwidth[MHz] | Limit [MHz] | Verdict |
|------|---------|---------------------|-------------------------|-------------|---------|
| 2.4G | LCH     | 0.8343              | 1.5462                  | $\geq 0.5$  | PASS    |
| 2.4G | MCH     | 0.8458              | 1.5119                  | $\geq 0.5$  | PASS    |
| 2.4G | HCH     | 0.8245              | 1.5158                  | $\geq 0.5$  | PASS    |

6dB Bandwidth Test Graphs

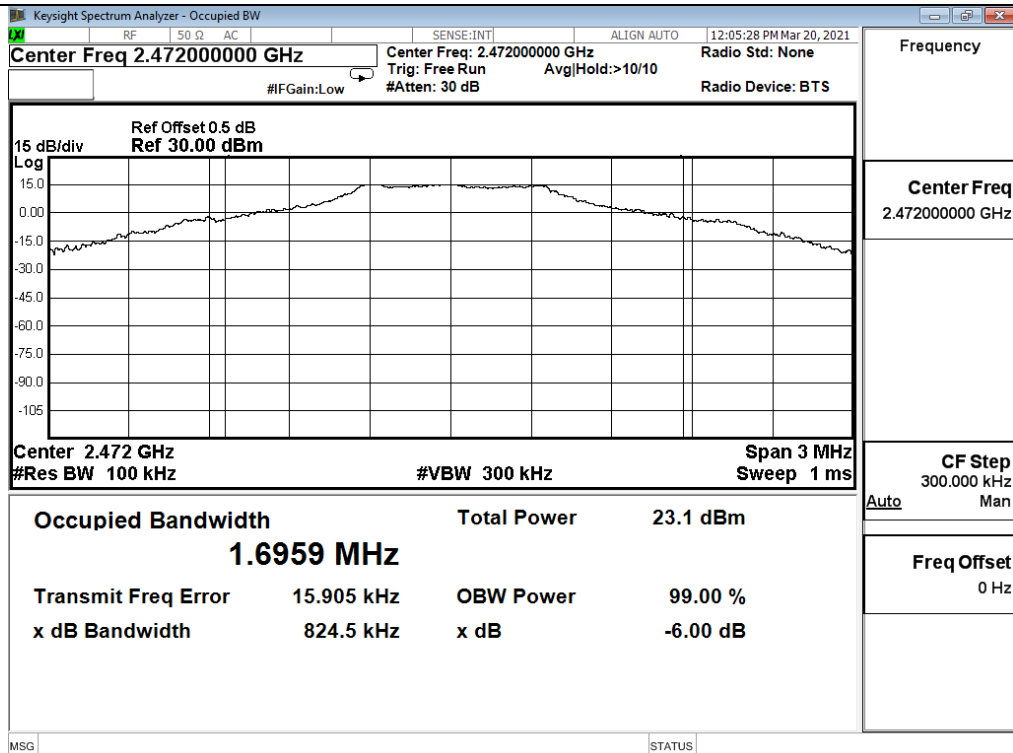
LCH



MCH

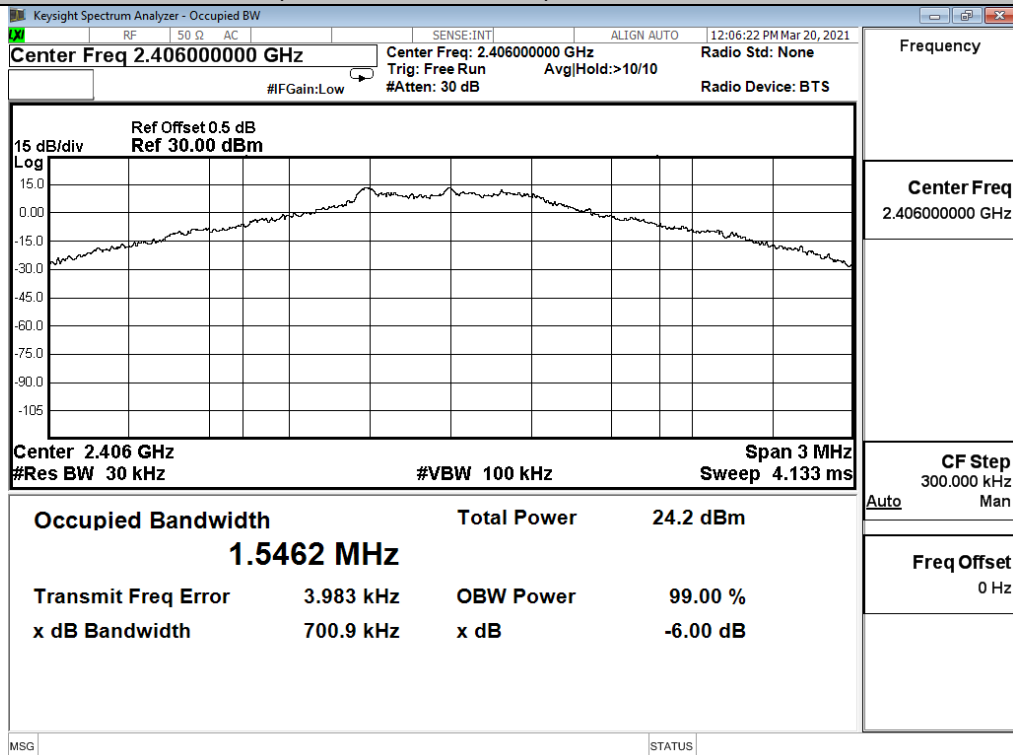


HCH

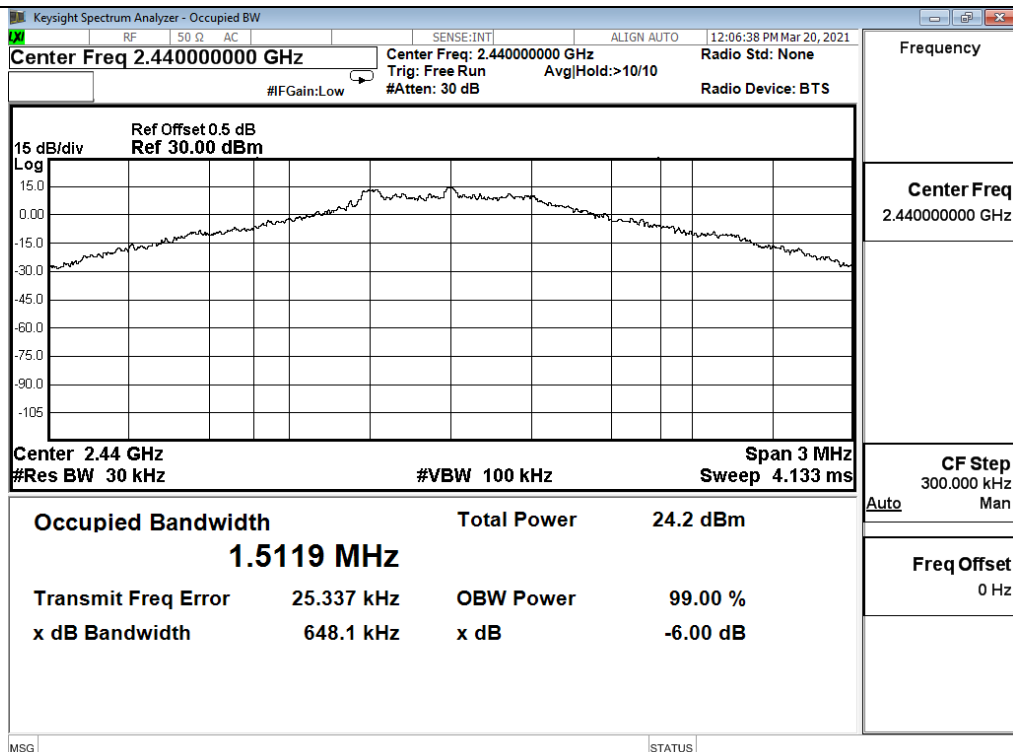


### Occupied Bandwidth Test Graphs

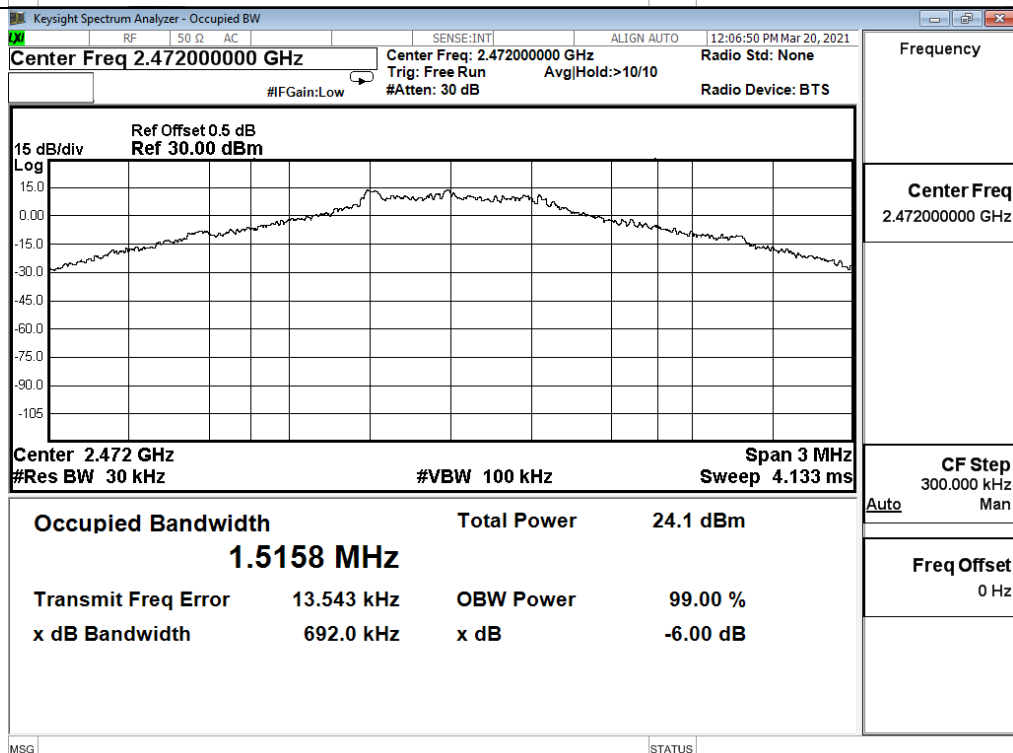
LCH



MCH



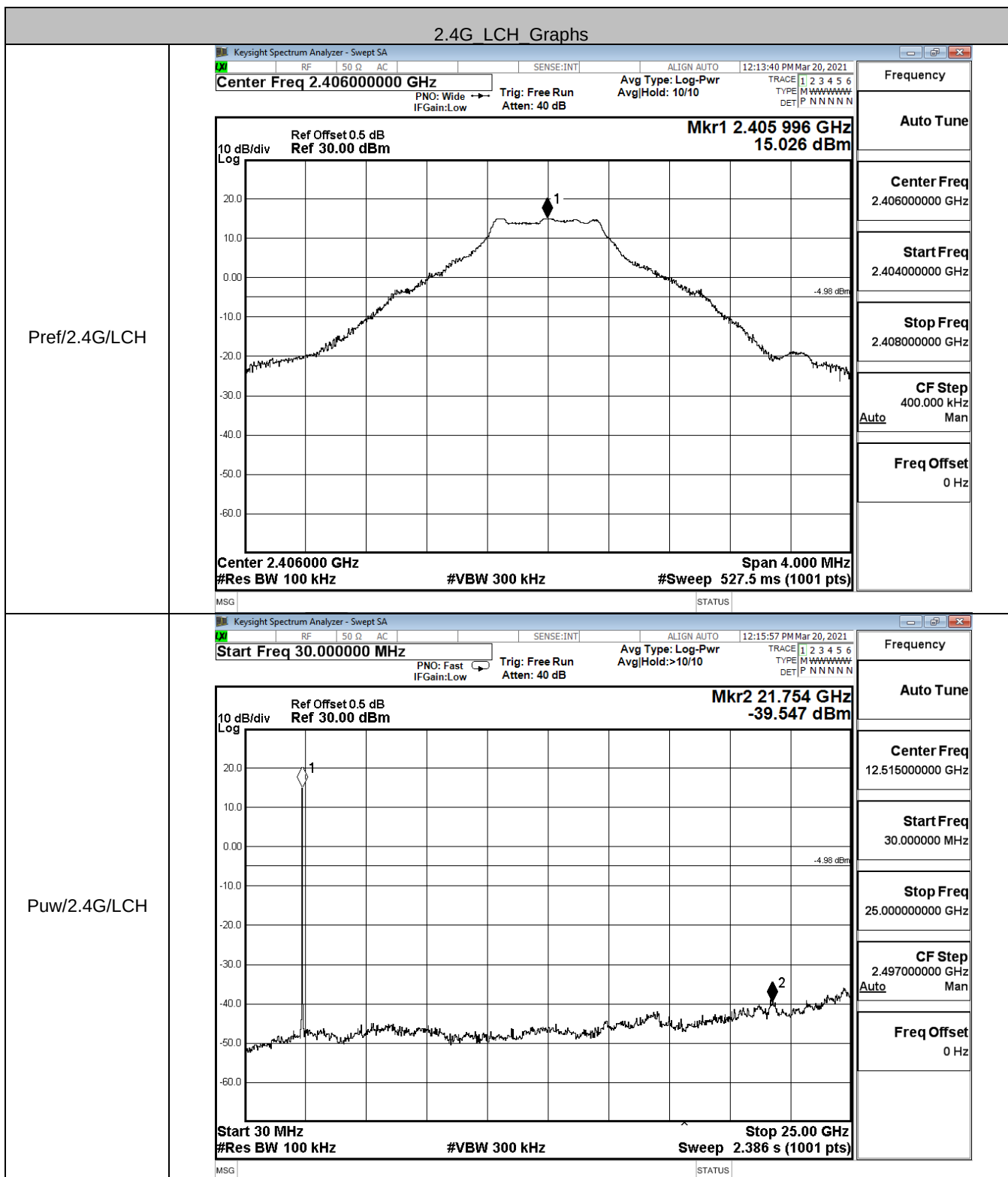
HCH





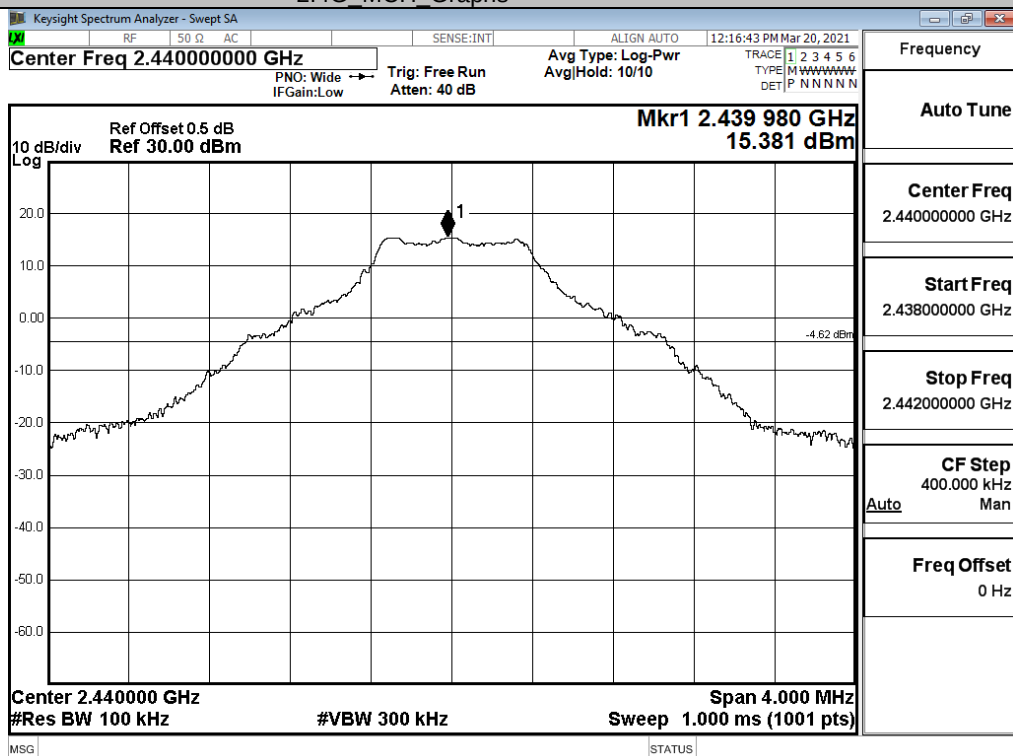
## A.5 RF Conducted Spurious Emissions

| Mode | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|------|---------|------------|------------------|-------------|---------|
| 2.4G | LCH     | 15.026     | -39.547          | -4.98       | PASS    |
| 2.4G | MCH     | 15.381     | -34.907          | -4.62       | PASS    |
| 2.4G | HCH     | 15.162     | -36.380          | -4.84       | PASS    |

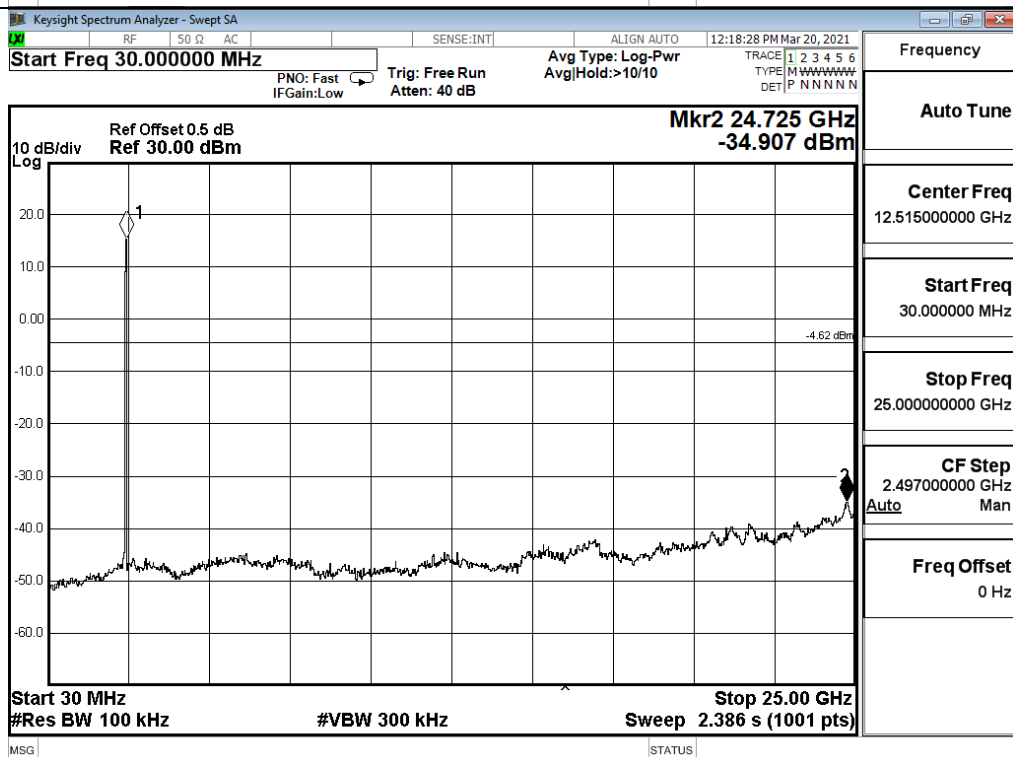


## 2.4G\_MCH\_Graphs

Pref/2.4G/MCH

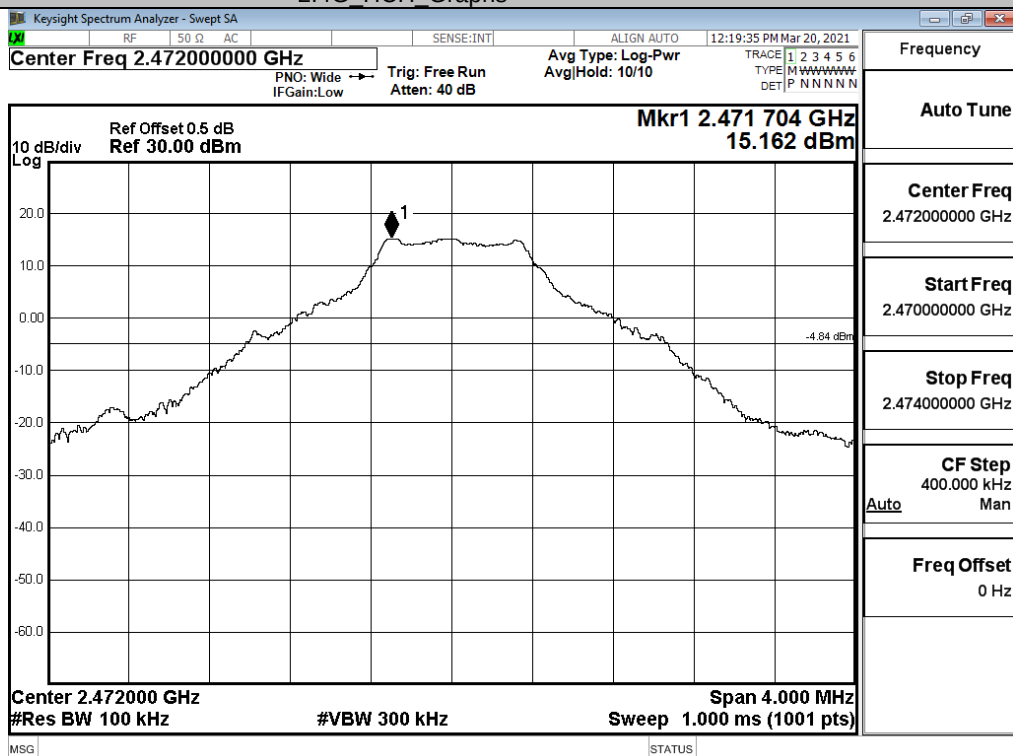


Puw/2.4G/MCH

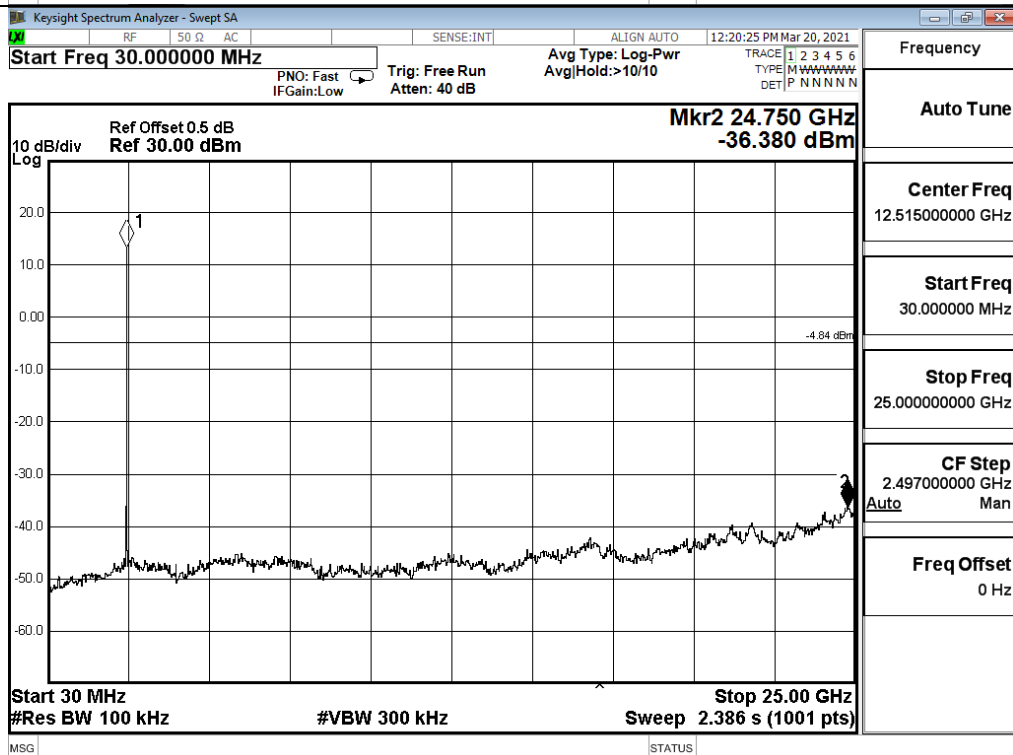


## 2.4G\_HCH\_Graphs

Pref/2.4G/HCH



Puw/2.4G/HCH

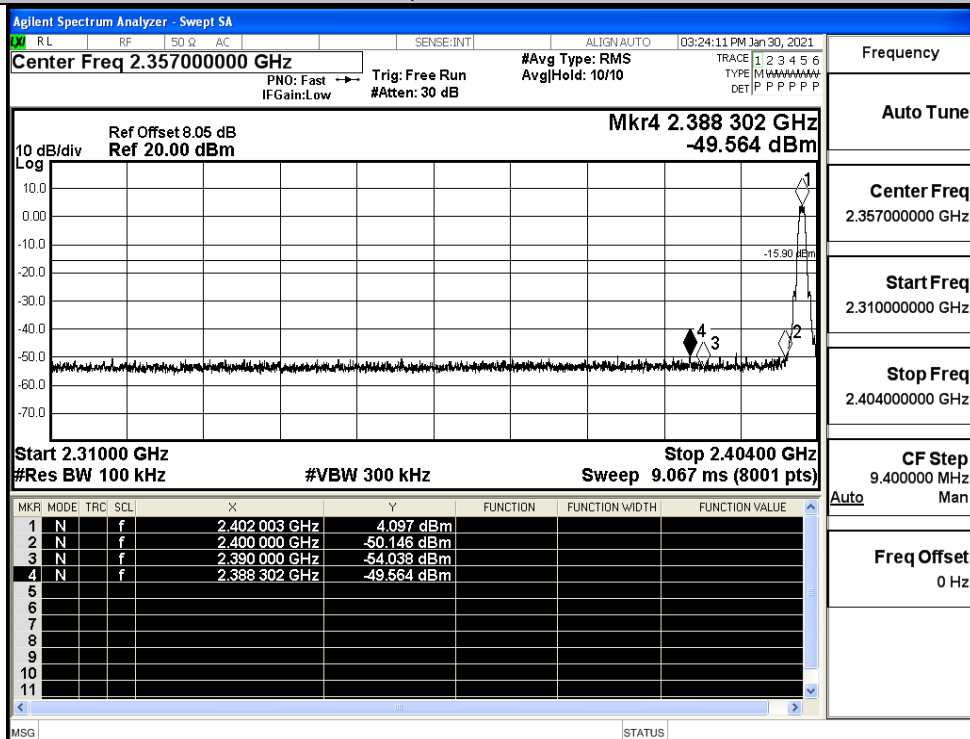


## A.6 Band-edge for RF Conducted Emissions

| Mode | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|------|---------|--------------------|--------------------------|-------------|---------|
| 2.4G | LCH     | 15.334             | -32.252                  | -4.67       | PASS    |
| 2.4G | HCH     | 15.415             | -36.046                  | -4.58       | PASS    |

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

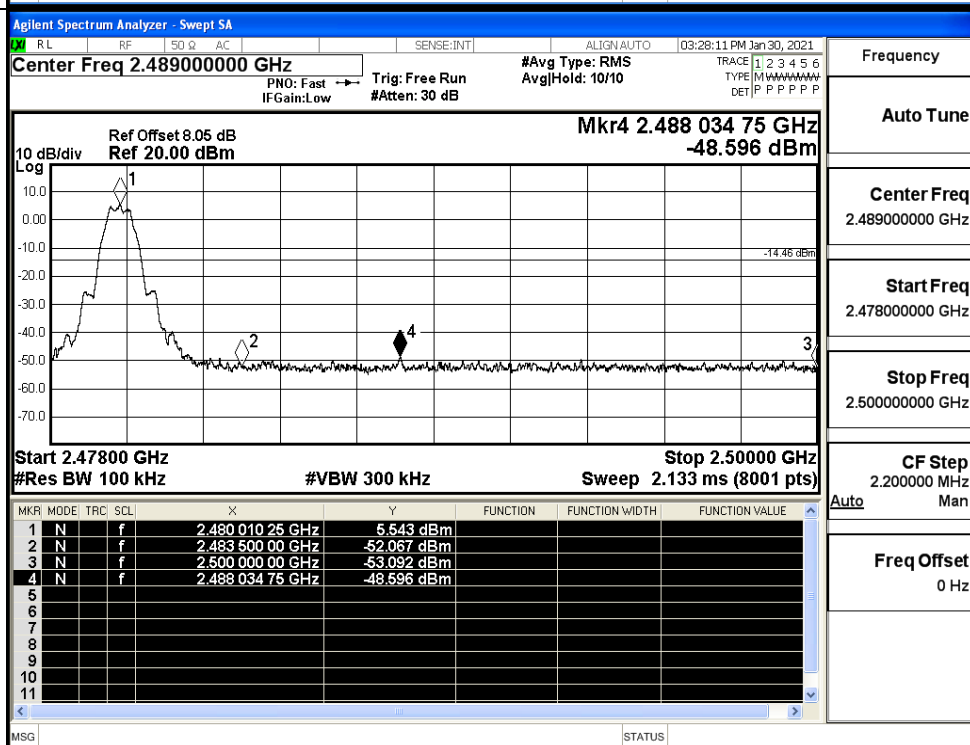
9.400000 MHz

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

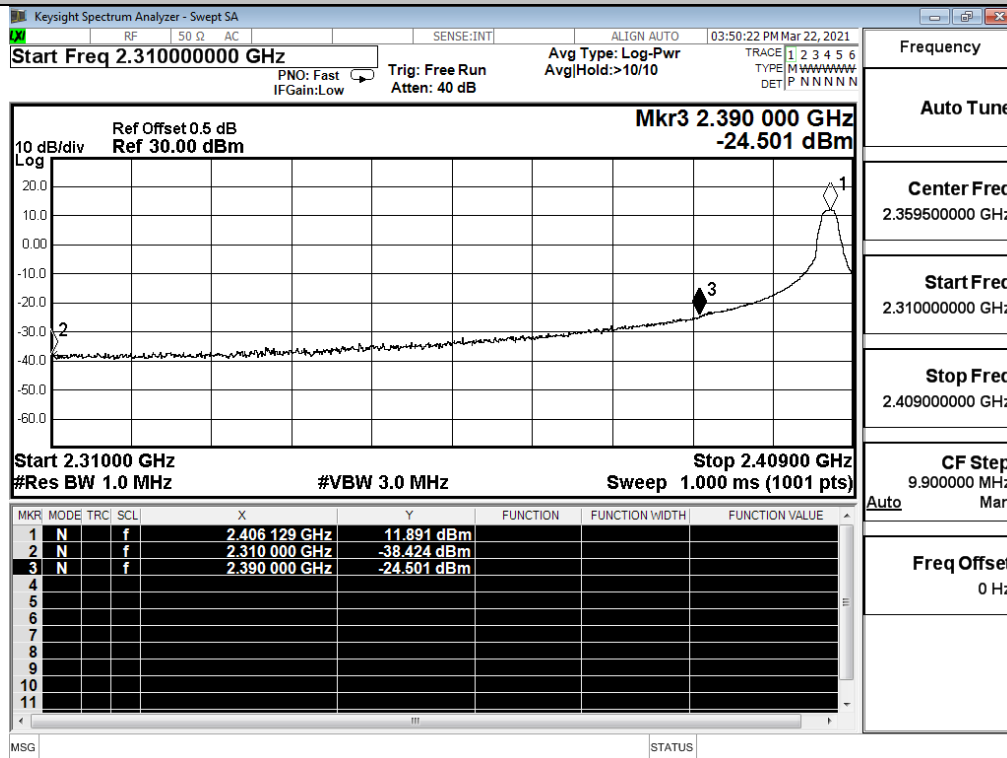
Freq Offset

0 Hz

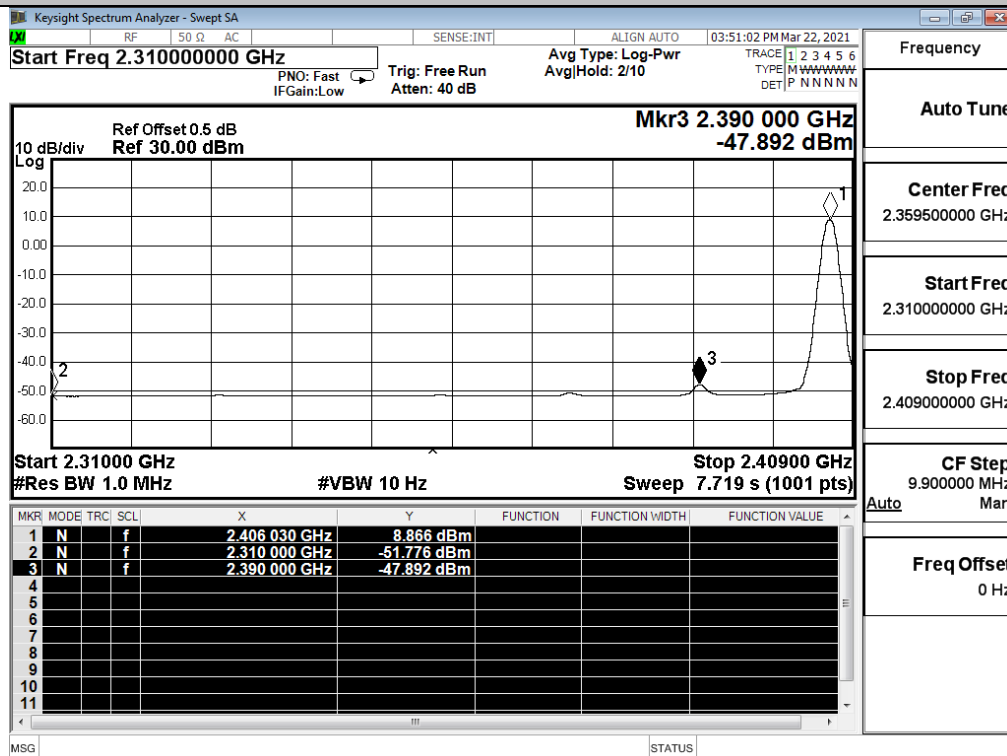
**A.7 Restrict-band band-edge measurements**

| Test Mode | Test Channel | Ant  | Freq.  | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdi |
|-----------|--------------|------|--------|-------------|------|---------------|------------|----------|----------------|-------|
| 2.4G      | 2402         | Ant1 | 2310.0 | -38.42      | 2.0  | 0             | 58.84      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2310.0 | -51.78      | 2.0  | 0             | 45.48      | AV       | 54             | PASS  |
|           |              | Ant1 | 2390.0 | -24.50      | 2.0  | 0             | 72.76      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2390.0 | -47.89      | 2.0  | 0             | 49.37      | AV       | 54             | PASS  |
|           | 2480         | Ant1 | 2483.5 | -23.88      | 2.0  | 0             | 73.38      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2483.5 | -51.30      | 2.0  | 0             | 45.96      | AV       | 54             | PASS  |
|           |              | Ant1 | 2500.0 | -30.94      | 2.0  | 0             | 66.32      | PEAK     | 74             | PASS  |
|           |              | Ant1 | 2500.0 | -51.51      | 2.0  | 0             | 45.75      | AV       | 54             | PASS  |

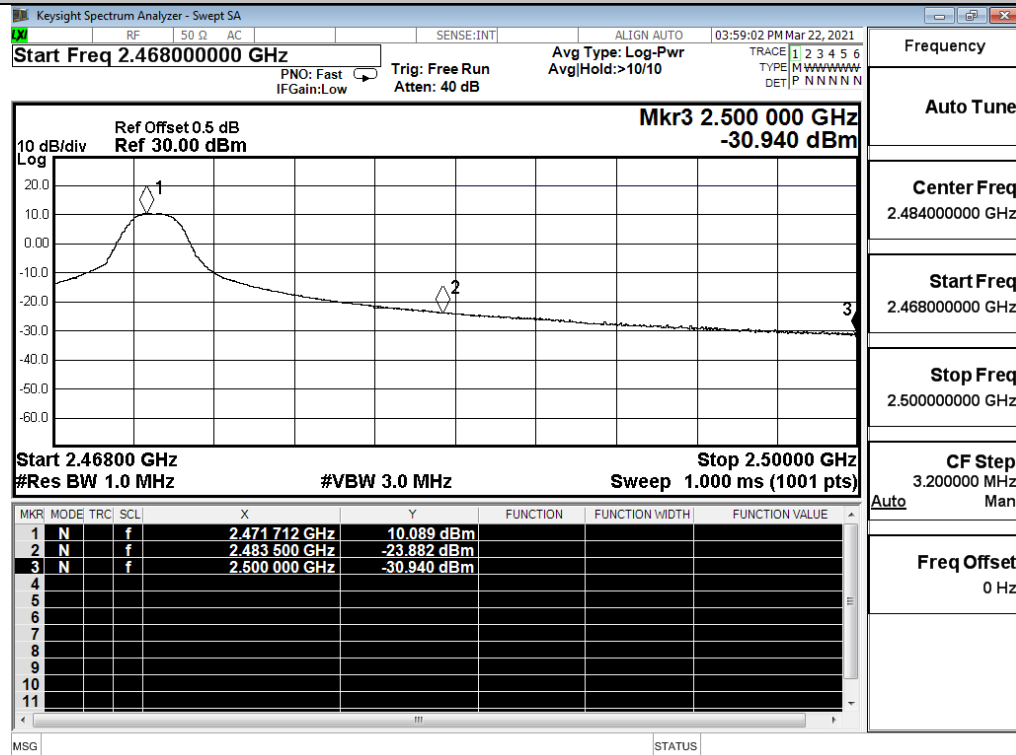
### Restrict-band band-edge measurements\_2.4G\_2406\_Ant1\_PEAK



### Restrict-band band-edge measurements\_2.4G\_2406\_Ant1\_AV



## Restrict-band band-edge measurements\_2.4G\_2472\_Ant1\_PEAK



## Restrict-band band-edge measurements\_2.4G\_2472\_Ant1\_AV

