

### 7.3.2. Test Procedures for Conducted Spurious Emissions

1. The transmitter output was connected to the spectrum analyzer.
2. The **reference level** of the fundamental frequency was measured with the spectrum analyzer using RBW = 100 kHz, VBW = 300 kHz.
3. The conducted spurious emission was tested each ranges were set as below.

**Frequency range : 9 kHz ~ 30 MHz**

RBW = 100 kHz, VBW = 300 kHz, SWEEP TIME = AUTO, DETECTOR = PEAK, TRACE = MAX HOLD, SWEEP POINT : 40 001

**Frequency range : 30 MHz ~ 10 GHz, 10 GHz ~ 26.5 GHz**

RBW = 1 MHz, VBW = 3 MHz, SWEEP TIME = AUTO, DETECTOR = PEAK, TRACE = MAX HOLD, SWEEP POINT : 40 001

**LIMIT LINE = 20 dB below of the reference level of above measurement procedure Step 2. (RBW = 100 kHz, VBW = 300 kHz)**

If the emission level with above setting was close to the limit (ie, less than 3 dB margin) then zoom scan is required using RBW = 100 kHz, VBW = 300 kHz, SPAN = 100 MHz and BINS = 2 001 to get accurate emission level within 100 kHz BW.

Also the path loss for conducted measurement setup was used as described on the Appendix I of this test report.

## 7.4. Test Results

### 7.4.1. Radiated Emissions

#### ▪ Test Notes.

- The radiated emissions were investigated 9 kHz to 25 GHz. And no other spurious and harmonic emissions were found below listed frequencies.
- Information of Distance Factor  
For finding emissions, measurements may be performed at a distance closer than that specified in the regulations.  
In this case, the distance factor is applied to the result.  
- Calculation of distance factor  
At frequencies below 30 MHz =  $40 \log(\text{tested distance} / \text{specified distance})$   
At frequencies at or above 30 MHz =  $20 \log(\text{tested distance} / \text{specified distance})$   
When distance factor is "N/A", the measurements were performed at the specified distance and distance factor is not applied.
- D.C.F Calculation. (D.C.F = Duty Cycle Correction Factor)  
- Time to cycle through all channels =  $\Delta t = T [\text{ms}] \times 20$  minimum hopping channels, where T = pulse width = **2.88 ms**  
-  $100 \text{ ms} / \Delta t [\text{ms}] = H \rightarrow$  Round up to next highest integer, to account for worst case,  $H' = 100 / (2.88 \times 20) = 1.74 \approx 2$   
- The Worst Case Dwell Time =  $T [\text{ms}] \times H' = 2.88 \text{ ms} \times 2 = 5.76 \text{ ms}$   
- D.C.F =  $20 \log(\text{The Worst Case Dwell Time} / 100 \text{ ms}) \text{ dB} = 20 \log(5.76 / 100) = -24.79 \text{ dB}$
- Sample Calculation.  
Margin = Limit – Result / Result = Reading + T.F + D.C.F + Distance Factor / T.F = AF + CL – AG  
Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain.

#### 9 kHz ~ 25 GHz Data (Modulation : GFSK)

##### ▪ Lowest Channel

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | D.C.F (dB) | Distance Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------------------|---------------|----------------|------------|------------|----------------------|-----------------|----------------|-------------|
| 2 389.68        | H       | Y                   | PK            | 50.10          | 4.80       | N/A        | N/A                  | 54.90           | 74.00          | 19.10       |
| 2 389.68        | H       | Y                   | AV            | 50.10          | 4.80       | -24.79     | N/A                  | 30.11           | 54.00          | 23.89       |
| 4 803.95        | H       | Z                   | PK            | 51.96          | 0.78       | N/A        | N/A                  | 52.74           | 74.00          | 21.26       |
| 4 803.95        | H       | Z                   | AV            | 51.96          | 0.78       | -24.79     | N/A                  | 27.95           | 54.00          | 26.05       |
| 7 205.75        | H       | Z                   | PK            | 48.66          | 8.58       | N/A        | N/A                  | 57.24           | 74.00          | 16.76       |
| 7 205.75        | H       | Z                   | AV            | 48.66          | 8.58       | -24.79     | N/A                  | 32.45           | 54.00          | 21.55       |

##### ▪ Middle Channel

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | D.C.F (dB) | Distance Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------------------|---------------|----------------|------------|------------|----------------------|-----------------|----------------|-------------|
| 4 882.35        | H       | Z                   | PK            | 53.02          | 1.36       | N/A        | N/A                  | 54.38           | 74.00          | 19.62       |
| 4 882.35        | H       | Z                   | AV            | 53.02          | 1.36       | -24.79     | N/A                  | 29.59           | 54.00          | 24.41       |
| 7 322.68        | H       | Z                   | PK            | 47.84          | 9.58       | N/A        | N/A                  | 57.42           | 74.00          | 16.58       |
| 7 322.68        | H       | Z                   | AV            | 47.84          | 9.58       | -24.79     | N/A                  | 32.63           | 54.00          | 21.37       |

##### ▪ Highest Channel

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | D.C.F (dB) | Distance Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------------------|---------------|----------------|------------|------------|----------------------|-----------------|----------------|-------------|
| 2 483.56        | V       | Y                   | PK            | 48.52          | 5.25       | N/A        | N/A                  | 53.77           | 74.00          | 20.23       |
| 2 483.56        | V       | Y                   | AV            | 48.52          | 5.25       | -24.79     | N/A                  | 28.98           | 54.00          | 25.02       |
| 4 960.18        | H       | Z                   | PK            | 52.92          | 1.61       | N/A        | N/A                  | 54.53           | 74.00          | 19.47       |
| 4 960.18        | H       | Z                   | AV            | 52.92          | 1.61       | -24.79     | N/A                  | 29.74           | 54.00          | 24.26       |
| 7 440.50        | H       | Z                   | PK            | 47.59          | 9.18       | N/A        | N/A                  | 56.77           | 74.00          | 17.23       |
| 7 440.50        | H       | Z                   | AV            | 47.59          | 9.18       | -24.79     | N/A                  | 31.98           | 54.00          | 22.02       |

### 9 kHz ~ 25 GHz Data (Modulation : $\pi/4$ DQPSK)

#### • Lowest Channel

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | D.C.F (dB) | Distance Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------------------|---------------|----------------|------------|------------|----------------------|-----------------|----------------|-------------|
| 2 389.83        | H       | Y                   | PK            | 49.10          | 4.80       | N/A        | N/A                  | 53.90           | 74.00          | 20.10       |
| 2 389.83        | H       | Y                   | AV            | 49.10          | 4.80       | -24.79     | N/A                  | 29.11           | 54.00          | 24.89       |
| 4 804.40        | H       | Z                   | PK            | 52.59          | 0.78       | N/A        | N/A                  | 53.37           | 74.00          | 20.63       |
| 4 804.40        | H       | Z                   | AV            | 52.59          | 0.78       | -24.79     | N/A                  | 28.58           | 54.00          | 25.42       |
| 7 205.91        | H       | Z                   | PK            | 48.21          | 8.58       | N/A        | N/A                  | 56.79           | 74.00          | 17.21       |
| 7 205.91        | H       | Z                   | AV            | 48.21          | 8.58       | -24.79     | N/A                  | 32.00           | 54.00          | 22.00       |

#### • Middle Channel

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | D.C.F (dB) | Distance Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------------------|---------------|----------------|------------|------------|----------------------|-----------------|----------------|-------------|
| 4 882.12        | H       | Z                   | PK            | 52.77          | 1.36       | N/A        | N/A                  | 54.13           | 74.00          | 19.87       |
| 4 882.12        | H       | Z                   | AV            | 52.77          | 1.36       | -24.79     | N/A                  | 29.34           | 54.00          | 24.66       |
| 7 322.40        | H       | Z                   | PK            | 47.76          | 9.58       | N/A        | N/A                  | 57.34           | 74.00          | 16.66       |
| 7 322.40        | H       | Z                   | AV            | 47.76          | 9.58       | -24.79     | N/A                  | 32.55           | 54.00          | 21.45       |

#### • Highest Channel

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | D.C.F (dB) | Distance Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------------------|---------------|----------------|------------|------------|----------------------|-----------------|----------------|-------------|
| 2 483.90        | V       | Y                   | PK            | 50.18          | 5.26       | N/A        | N/A                  | 55.44           | 74.00          | 18.56       |
| 2 483.90        | V       | Y                   | AV            | 50.18          | 5.26       | -24.79     | N/A                  | 30.65           | 54.00          | 23.35       |
| 4 959.70        | H       | Z                   | PK            | 53.21          | 1.61       | N/A        | N/A                  | 54.82           | 74.00          | 19.18       |
| 4 959.70        | H       | Z                   | AV            | 53.21          | 1.61       | -24.79     | N/A                  | 30.03           | 54.00          | 23.97       |
| 7 440.47        | H       | Z                   | PK            | 47.30          | 9.18       | N/A        | N/A                  | 56.48           | 74.00          | 17.52       |
| 7 440.47        | H       | Z                   | AV            | 47.30          | 9.18       | -24.79     | N/A                  | 31.69           | 54.00          | 22.31       |

## 9 kHz ~ 25 GHz Data (Modulation : 8DPSK)

### • Lowest Channel

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | D.C.F (dB) | Distance Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------------------|---------------|----------------|------------|------------|----------------------|-----------------|----------------|-------------|
| 2 389.34        | H       | Y                   | PK            | 50.00          | 4.80       | N/A        | N/A                  | 54.80           | 74.00          | 19.20       |
| 2 389.34        | H       | Y                   | AV            | 50.00          | 4.80       | -24.79     | N/A                  | 30.01           | 54.00          | 23.99       |
| 4 803.84        | H       | Z                   | PK            | 52.41          | 0.78       | N/A        | N/A                  | 53.19           | 74.00          | 20.81       |
| 4 803.84        | H       | Z                   | AV            | 52.41          | 0.78       | -24.79     | N/A                  | 28.40           | 54.00          | 25.60       |
| 7 206.23        | H       | Z                   | PK            | 47.91          | 8.59       | N/A        | N/A                  | 56.50           | 74.00          | 17.50       |
| 7 206.23        | H       | Z                   | AV            | 47.91          | 8.59       | -24.79     | N/A                  | 31.71           | 54.00          | 22.29       |

### • Middle Channel

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | D.C.F (dB) | Distance Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------------------|---------------|----------------|------------|------------|----------------------|-----------------|----------------|-------------|
| 4 882.00        | H       | Z                   | PK            | 53.07          | 1.36       | N/A        | N/A                  | 54.43           | 74.00          | 19.57       |
| 4 882.00        | H       | Z                   | AV            | 53.07          | 1.36       | -24.79     | N/A                  | 29.64           | 54.00          | 24.36       |
| 7 322.78        | H       | Z                   | PK            | 47.23          | 9.58       | N/A        | N/A                  | 56.81           | 74.00          | 17.19       |
| 7 322.78        | H       | Z                   | AV            | 47.23          | 9.58       | -24.79     | N/A                  | 32.02           | 54.00          | 21.98       |

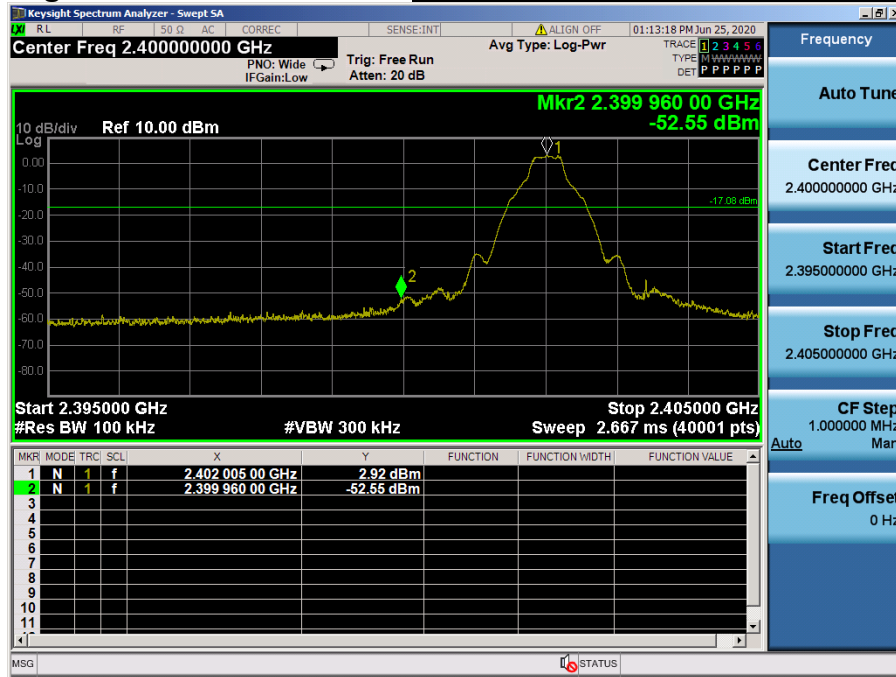
### • Highest Channel

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | D.C.F (dB) | Distance Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------------------|---------------|----------------|------------|------------|----------------------|-----------------|----------------|-------------|
| 2 483.58        | V       | Y                   | PK            | 50.48          | 5.25       | N/A        | N/A                  | 55.73           | 74.00          | 18.27       |
| 2 483.58        | V       | Y                   | AV            | 50.48          | 5.25       | -24.79     | N/A                  | 30.94           | 54.00          | 23.06       |
| 4 959.76        | H       | Z                   | PK            | 53.06          | 1.61       | N/A        | N/A                  | 54.67           | 74.00          | 19.33       |
| 4 959.76        | H       | Z                   | AV            | 53.06          | 1.61       | -24.79     | N/A                  | 29.88           | 54.00          | 24.12       |
| 7 440.23        | H       | Z                   | PK            | 47.84          | 9.18       | N/A        | N/A                  | 57.02           | 74.00          | 16.98       |
| 7 440.23        | H       | Z                   | AV            | 47.84          | 9.18       | -24.79     | N/A                  | 32.23           | 54.00          | 21.77       |

## 7.4.2. Conducted Spurious Emissions

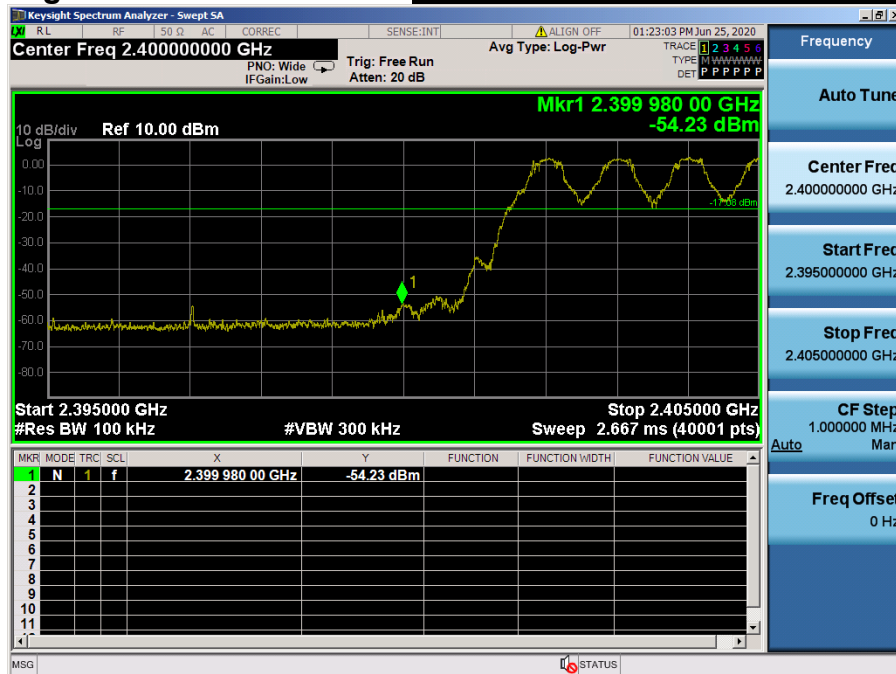
### Low Band-edge

### Lowest Channel & Modulation : GFSK



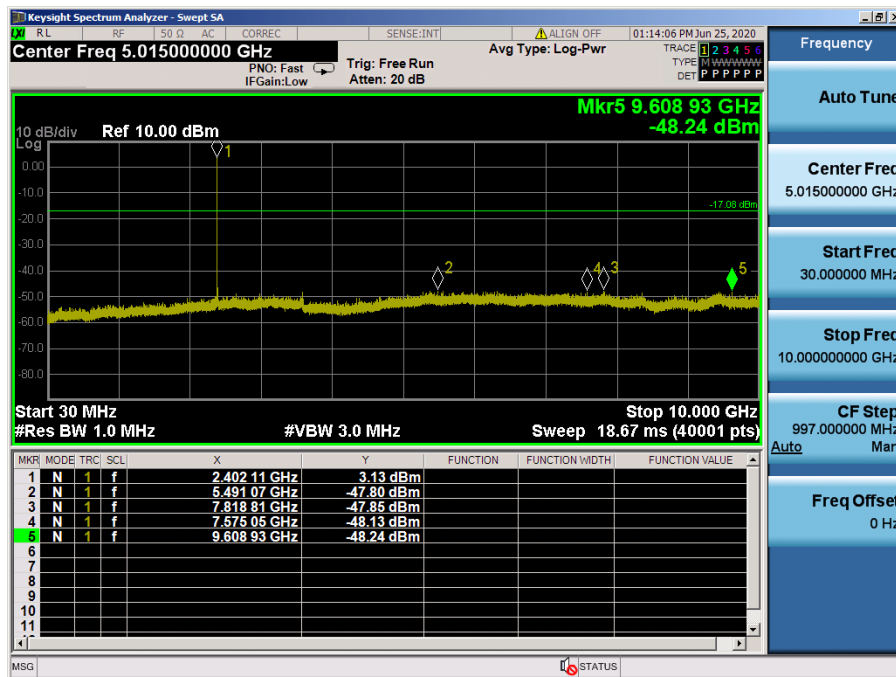
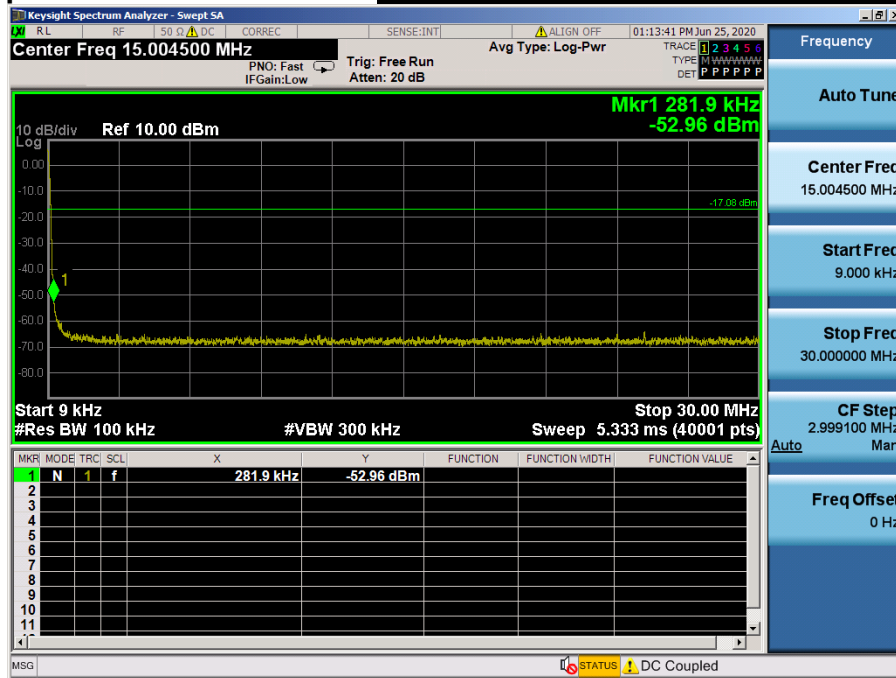
### Low Band-edge

### Hopping mode & Modulation : GFSK



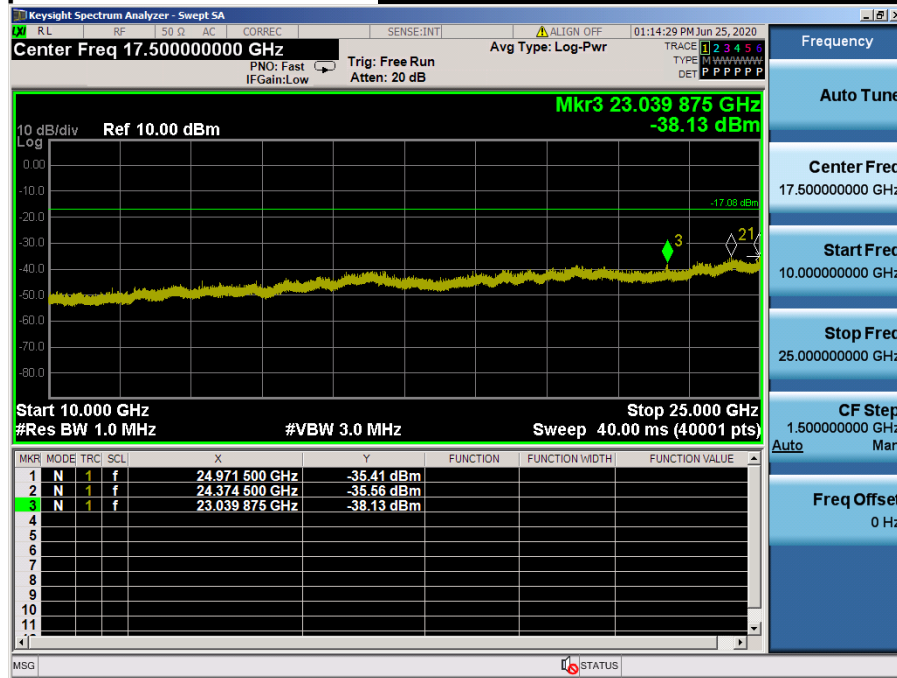
## Conducted Spurious Emissions

## Lowest Channel & Modulation : GFSK



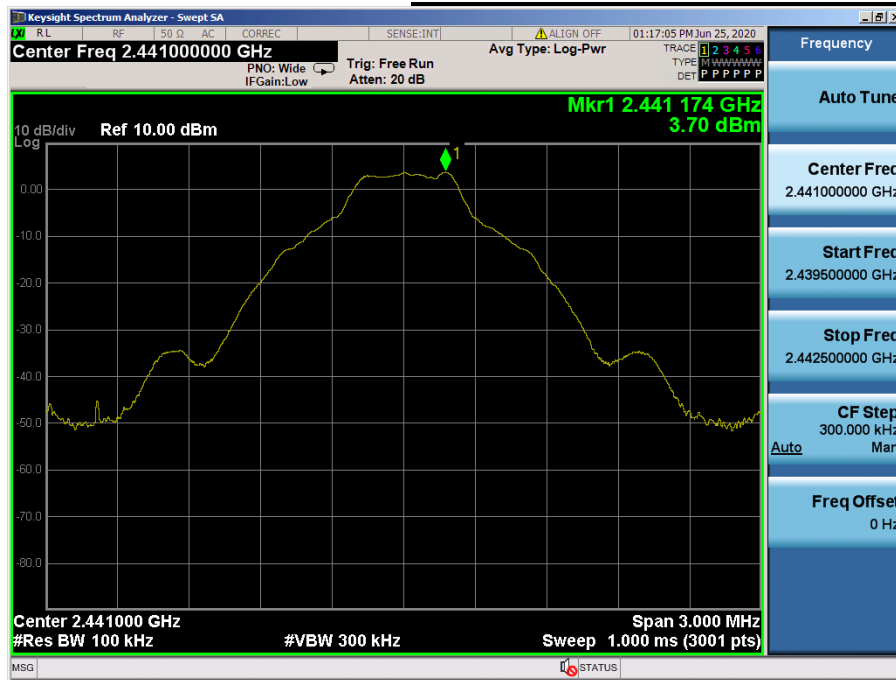
## Conducted Spurious Emissions

## Lowest Channel & Modulation : GFSK



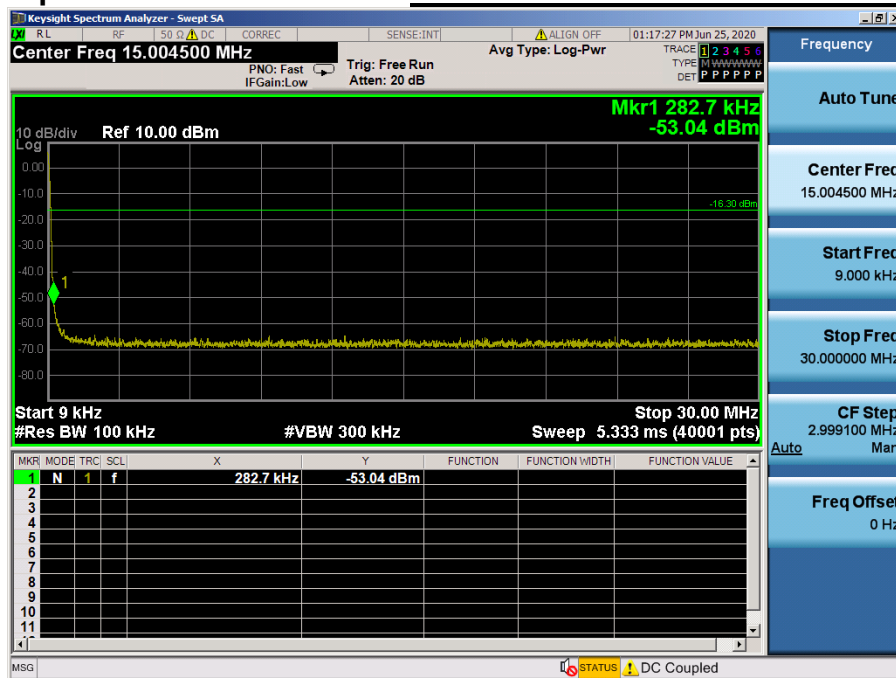
## Reference for limit

## Middle Channel & Modulation : GFSK



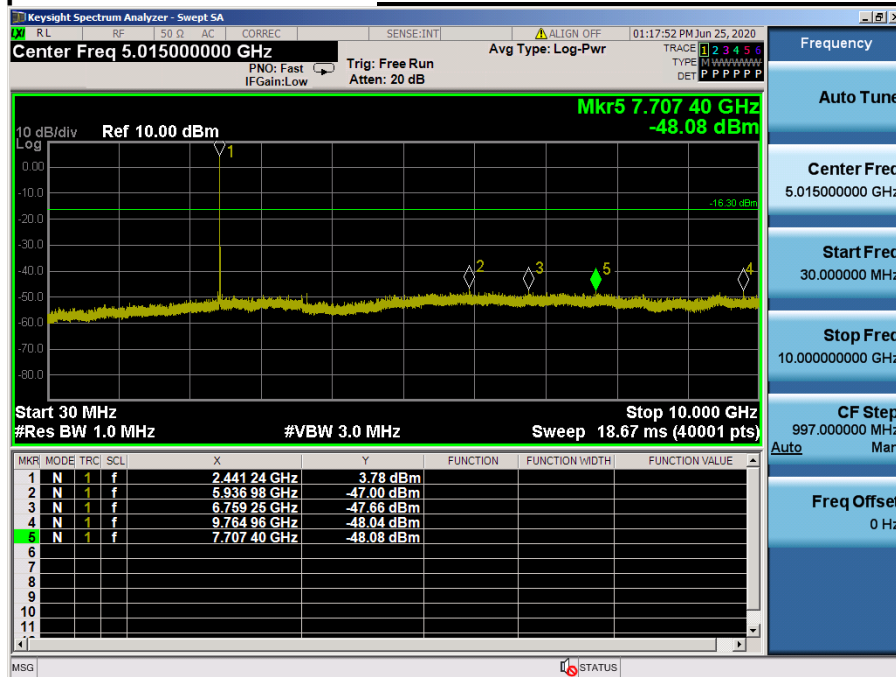
## Conducted Spurious Emissions

## Middle Channel & Modulation : GFSK



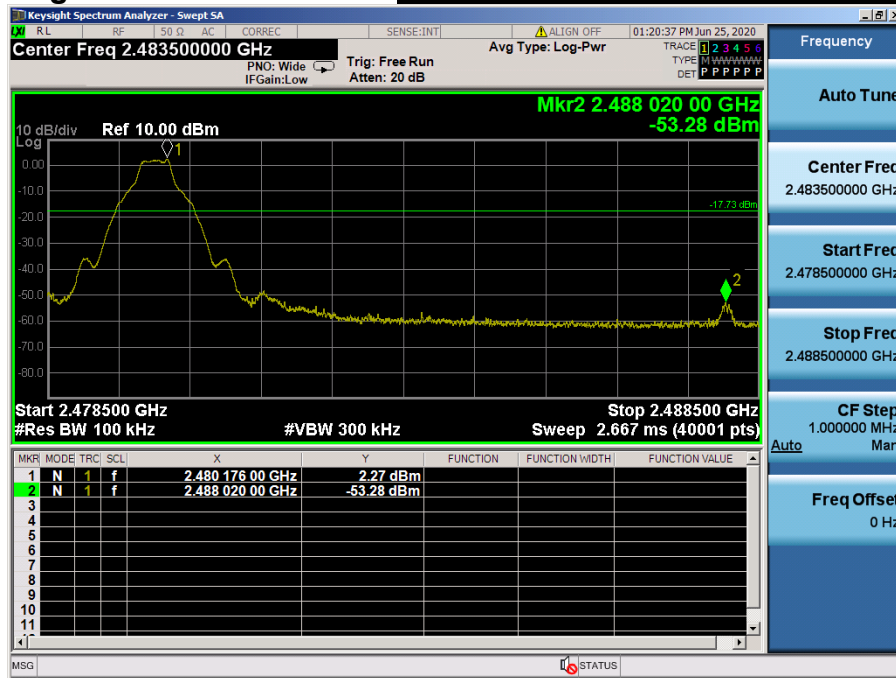
## Conducted Spurious Emissions

## Middle Channel & Modulation : GFSK



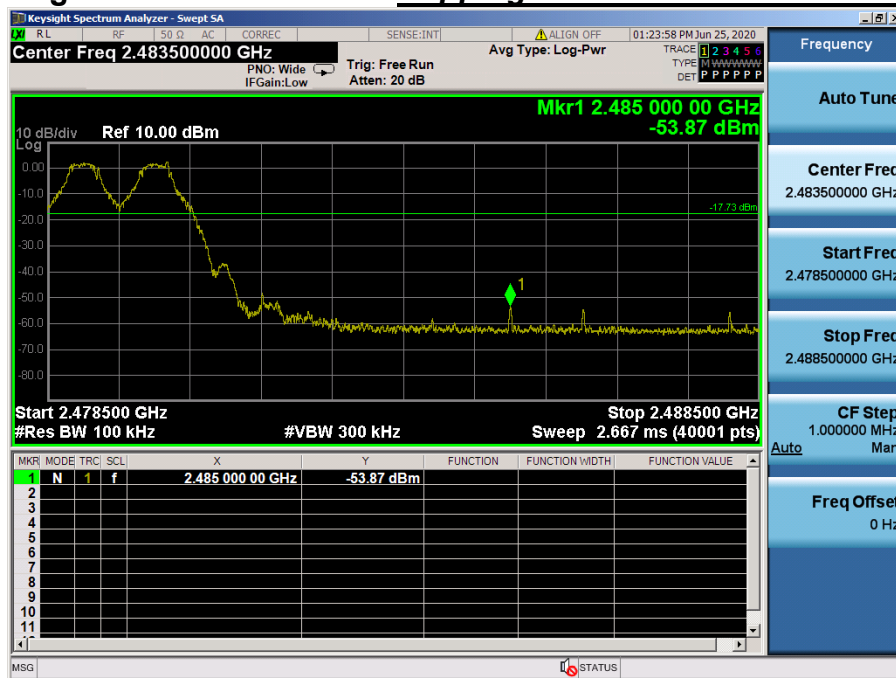
## High Band-edge

## Highest Channel & Modulation : GFSK



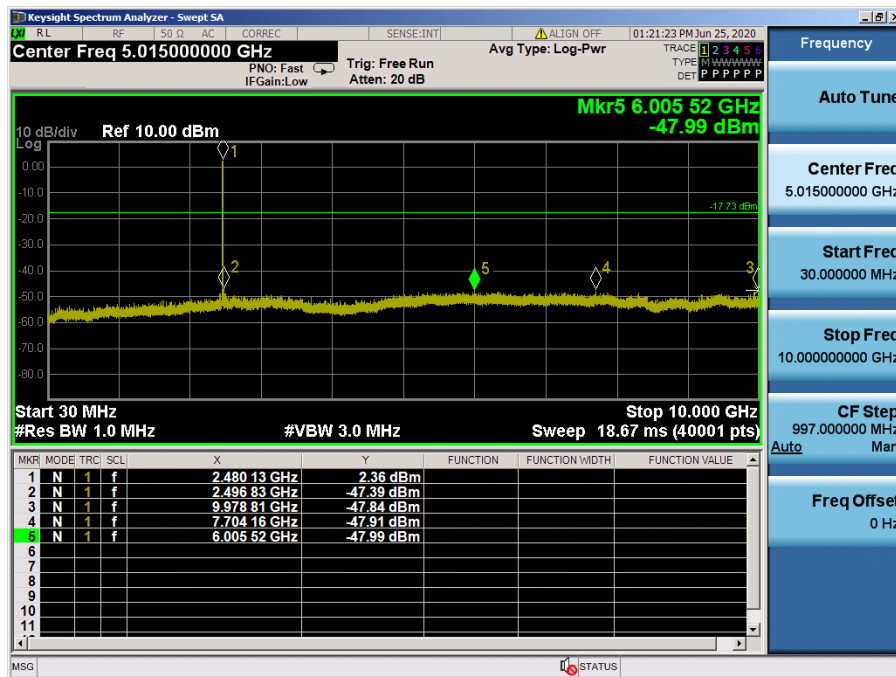
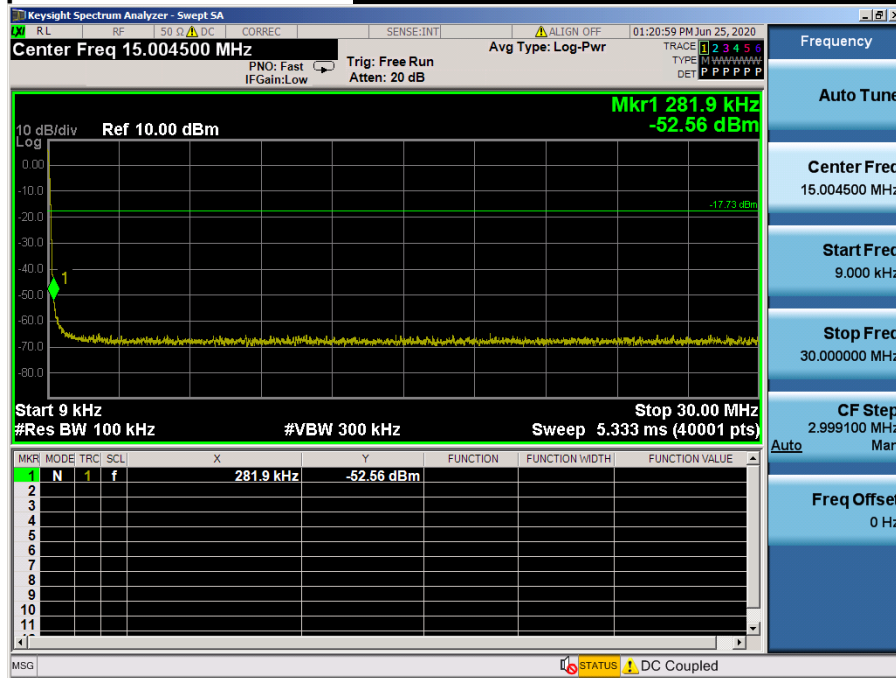
## High Band-edge

## Hopping mode & Modulation : GFSK



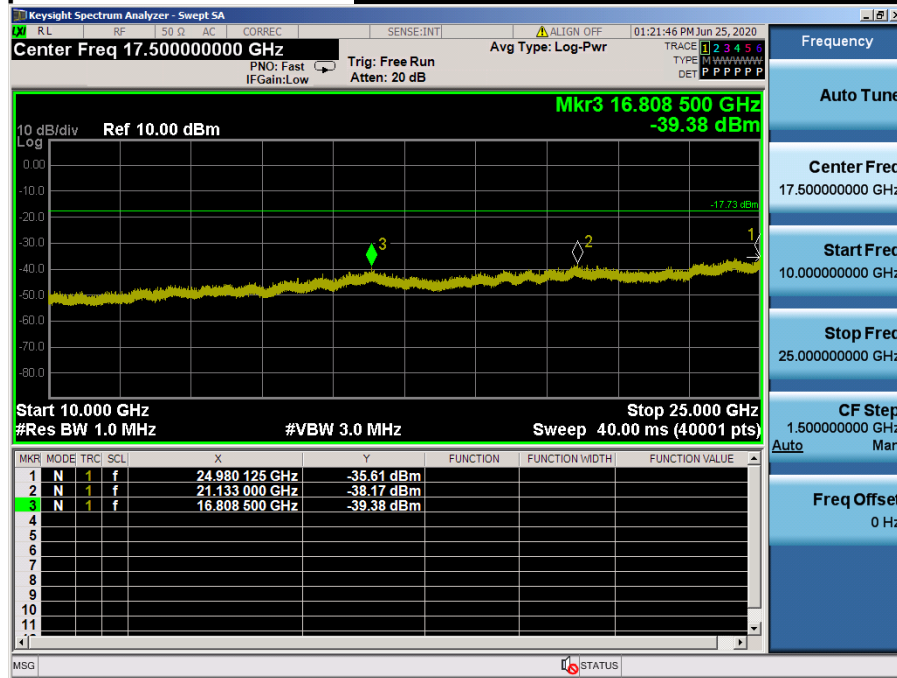
## Conducted Spurious Emissions

## Highest Channel & Modulation : GFSK



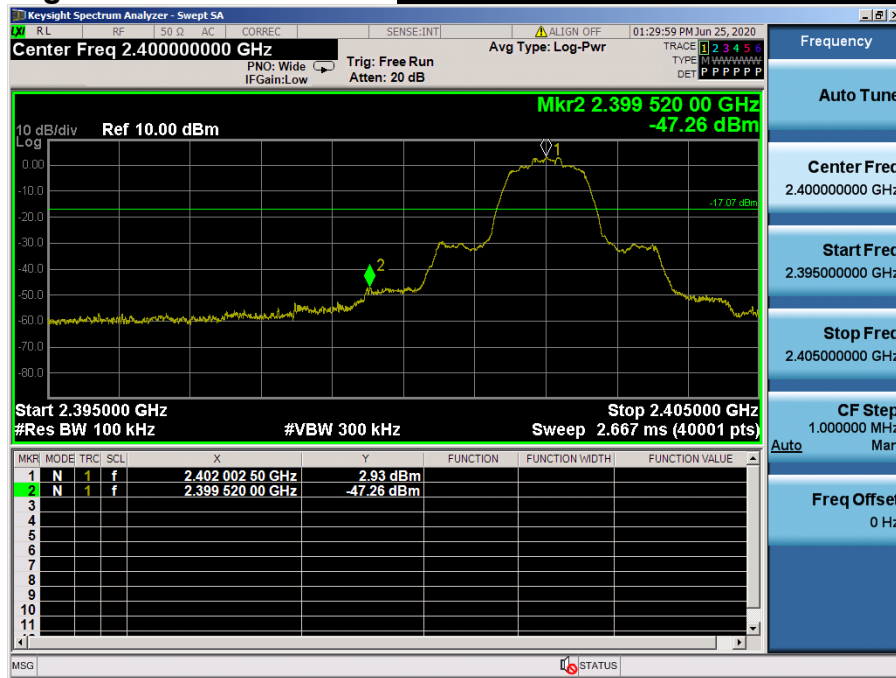
## Conducted Spurious Emissions

## Highest Channel & Modulation : GFSK



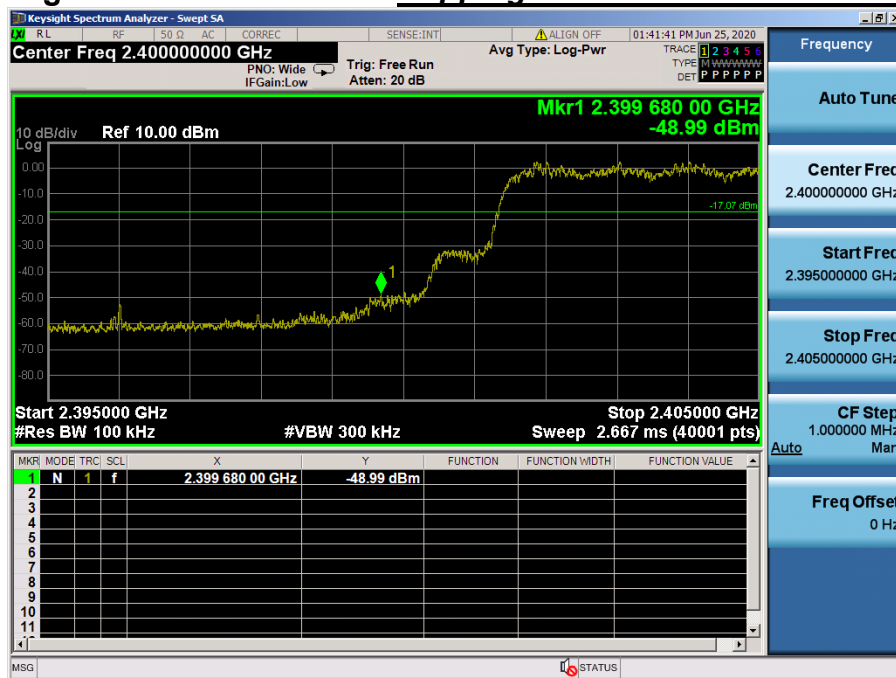
## Low Band-edge

## Lowest Channel & Modulation : $\pi/4$ DQPSK



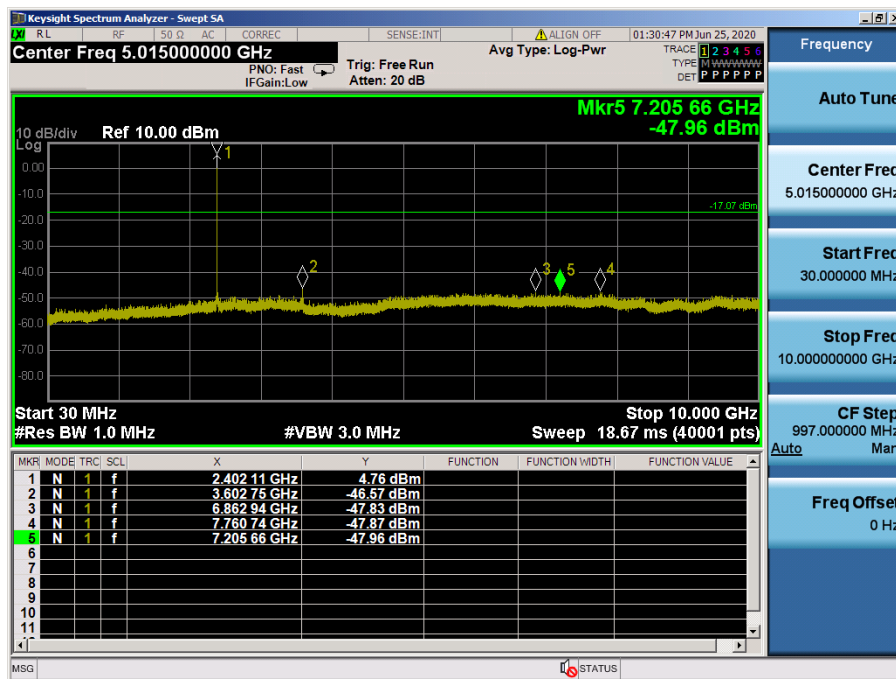
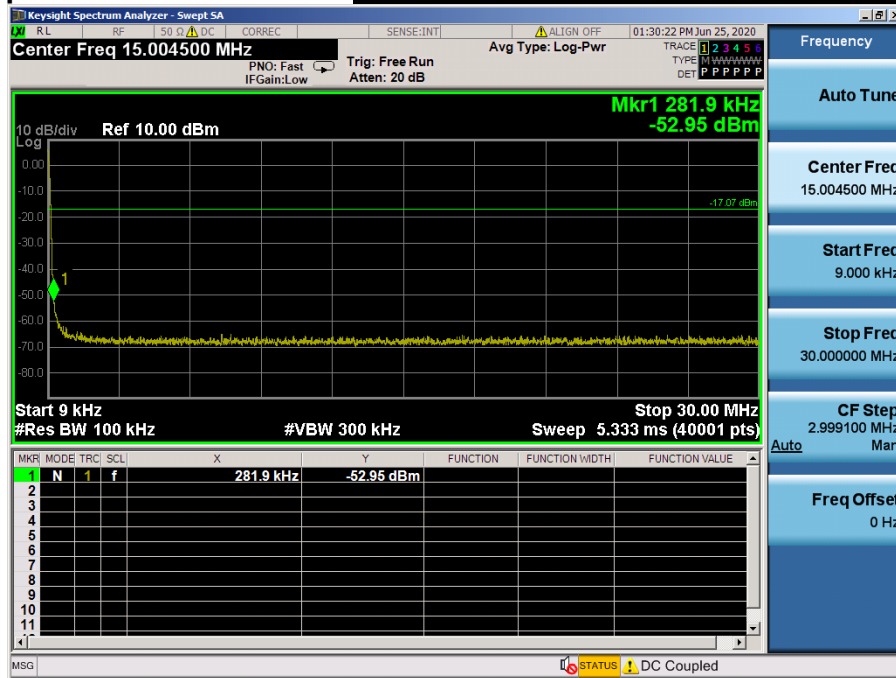
## Low Band-edge

## Hopping mode & Modulation : $\pi/4$ DQPSK



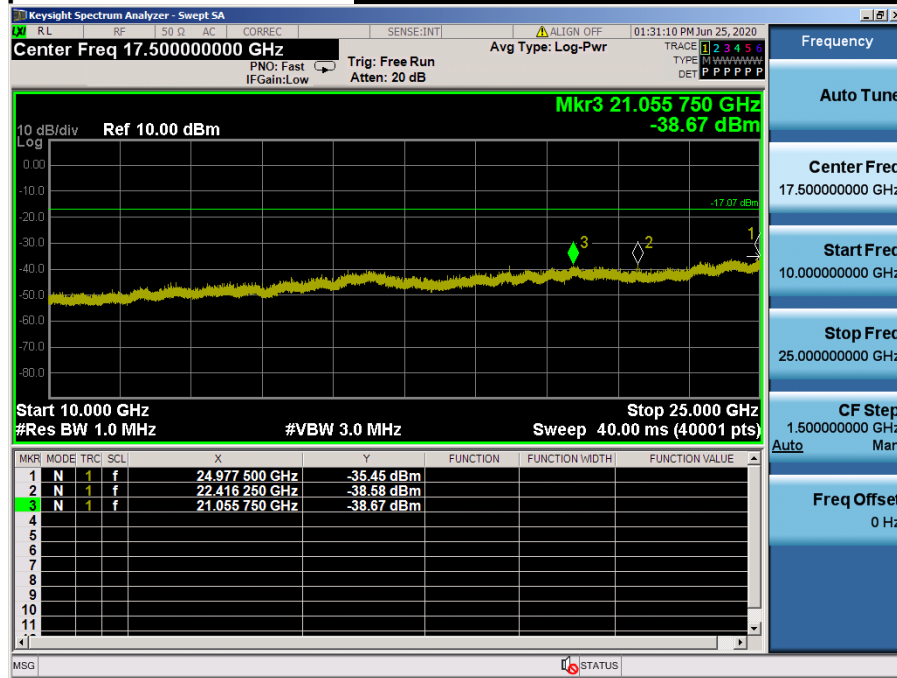
## Conducted Spurious Emissions

## Lowest Channel & Modulation : $\pi/4$ DQPSK



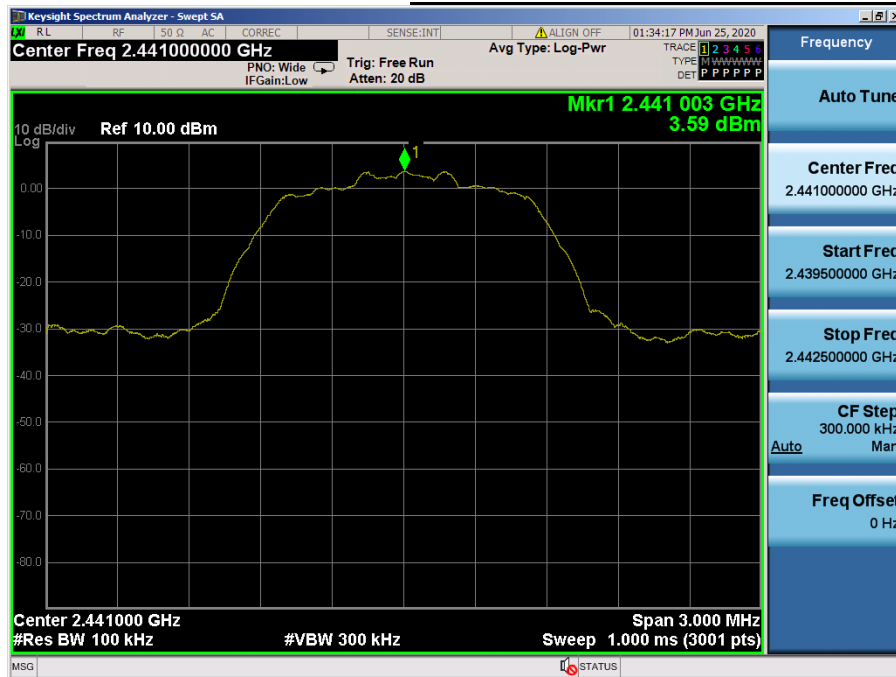
## Conducted Spurious Emissions

## Lowest Channel & Modulation : $\pi/4$ DQPSK



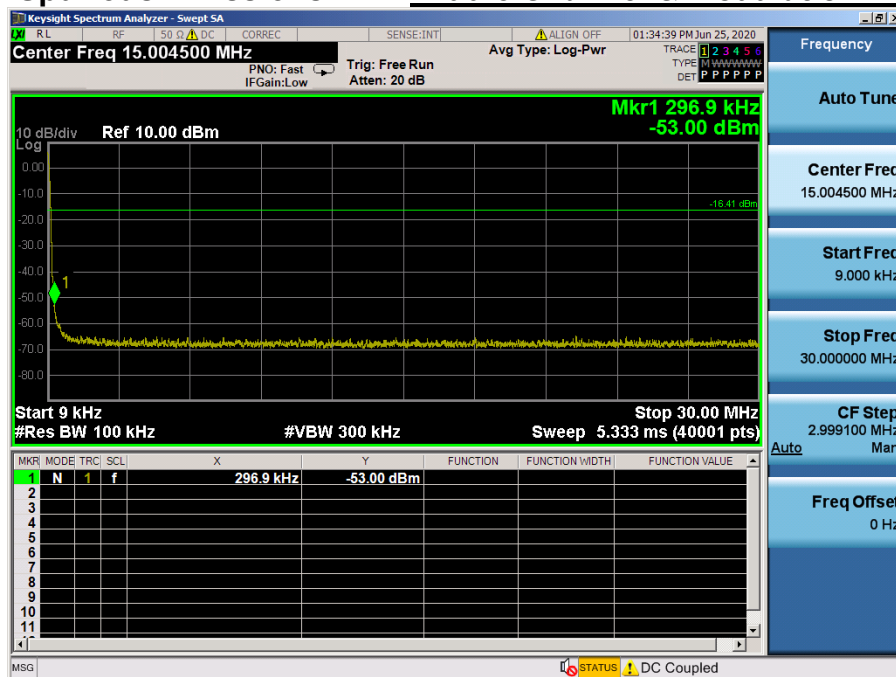
## Reference for limit

## Middle Channel & Modulation : $\pi/4$ DQPSK



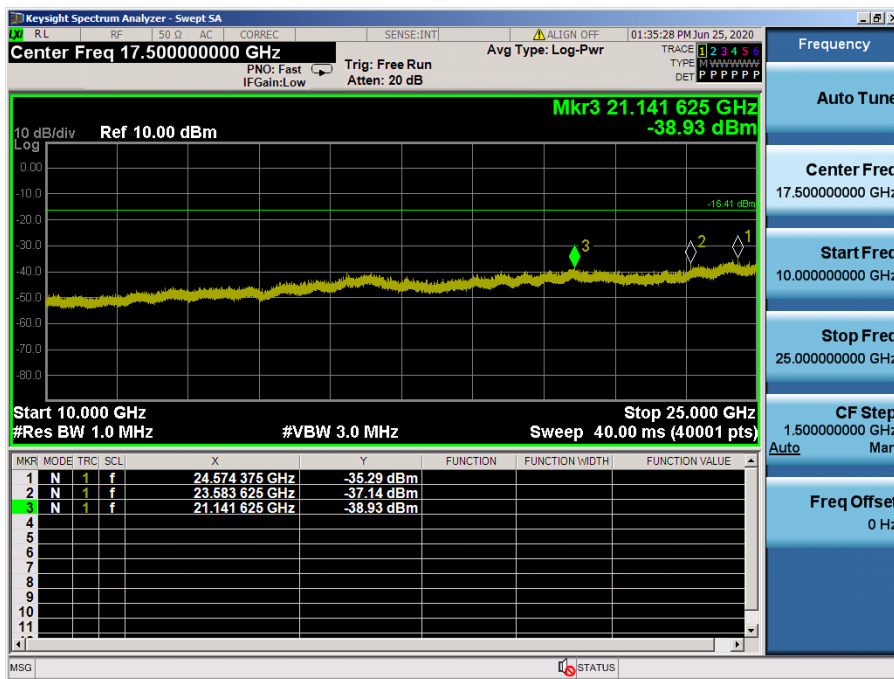
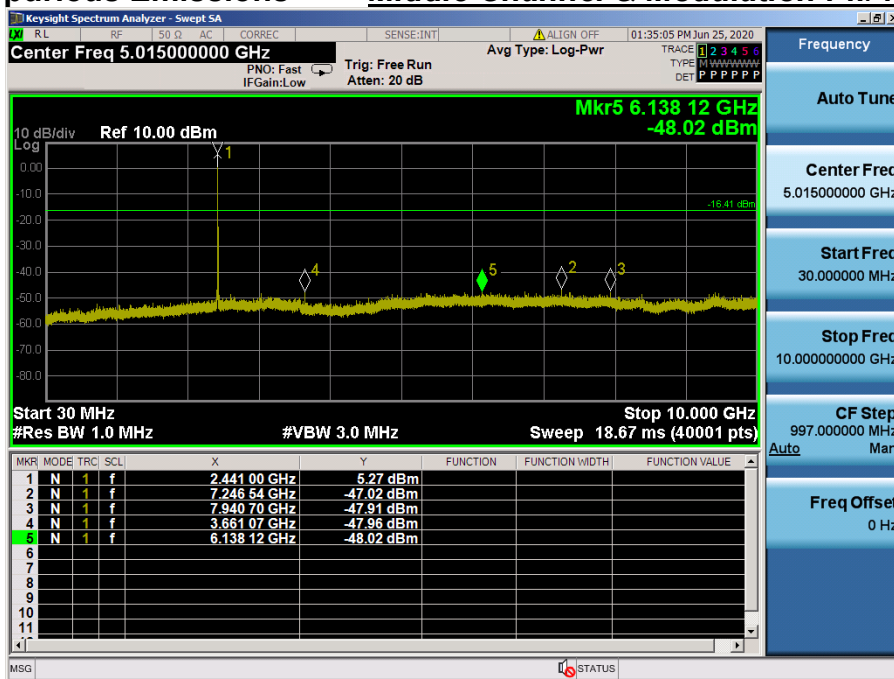
## Conducted Spurious Emissions

## Middle Channel & Modulation : $\pi/4$ DQPSK

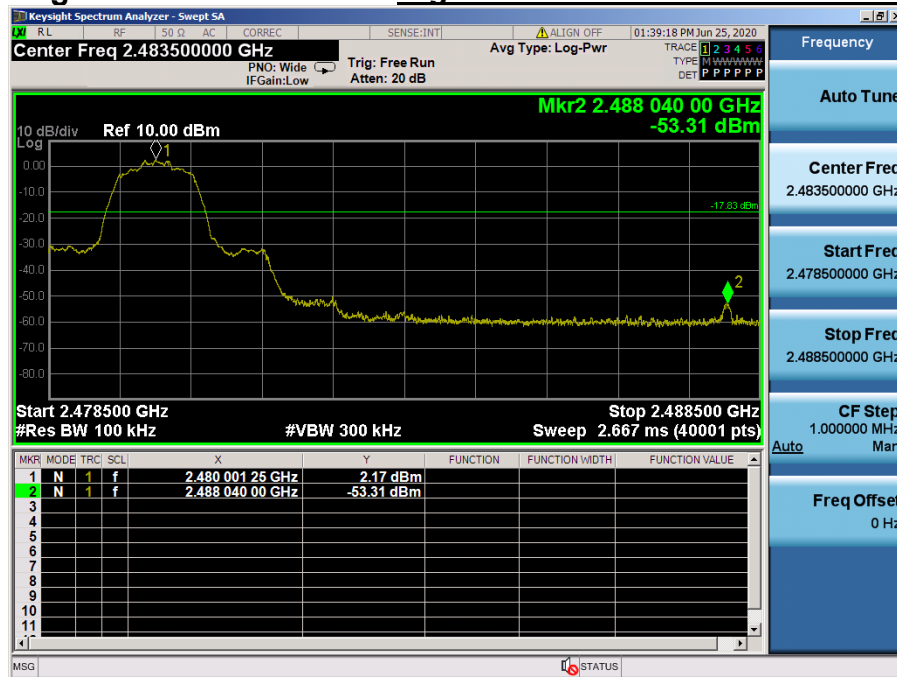


## Conducted Spurious Emissions

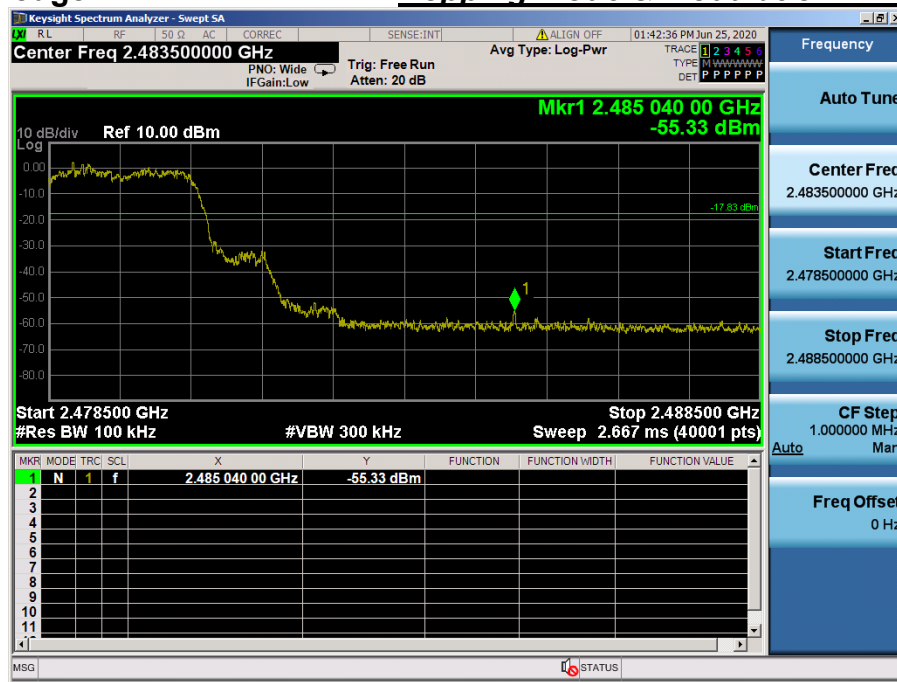
## Middle Channel & Modulation : $\pi/4$ DQPSK



## High Band-edge

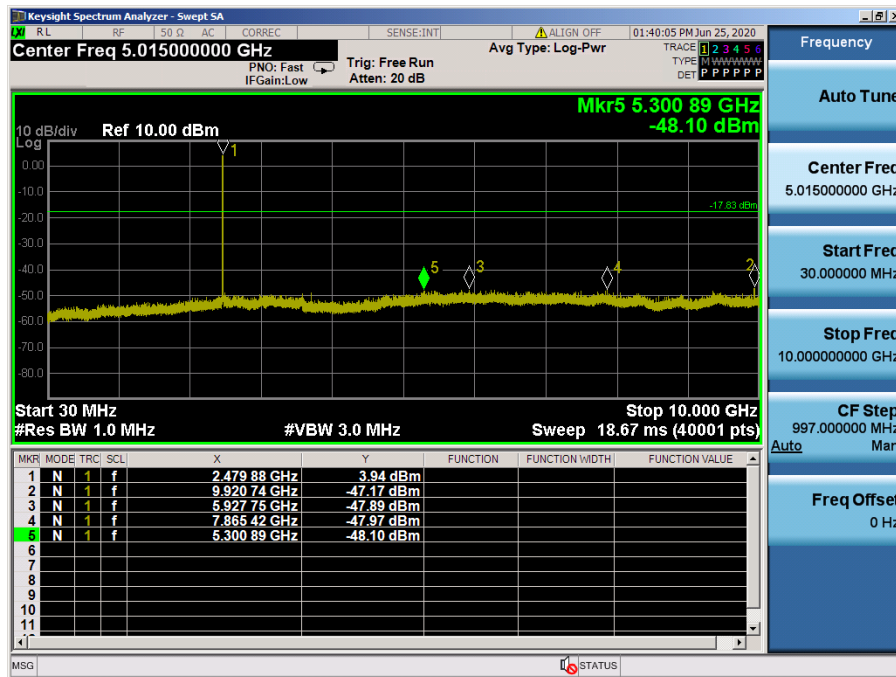
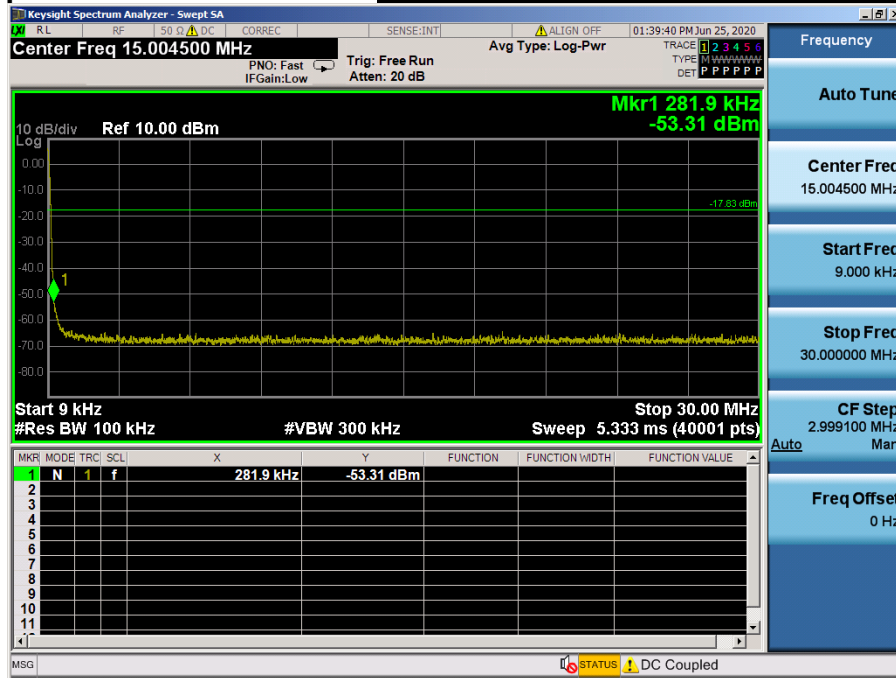
Highest Channel & Modulation :  $\pi/4$ DQPSK

## High Band-edge

Hopping mode & Modulation :  $\pi/4$ DQPSK

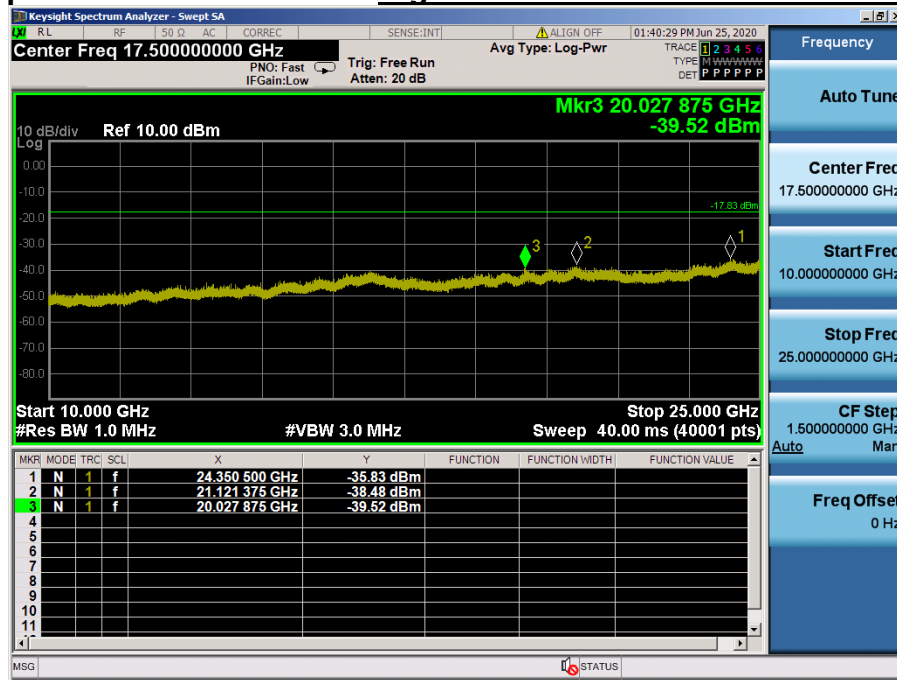
## Conducted Spurious Emissions

## Highest Channel & Modulation : $\pi/4$ DQPSK

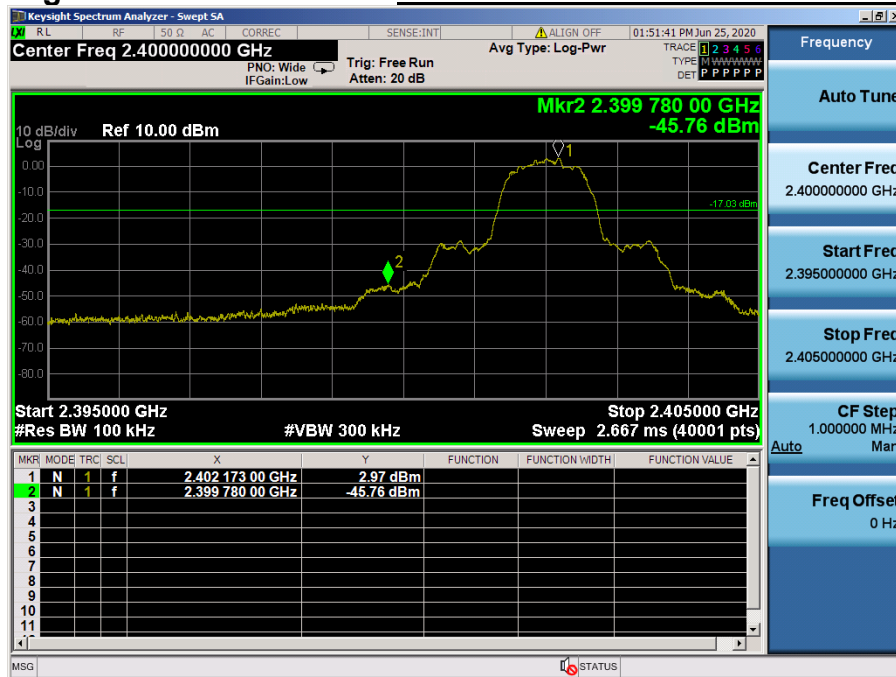


# Conducted Spurious Emissions

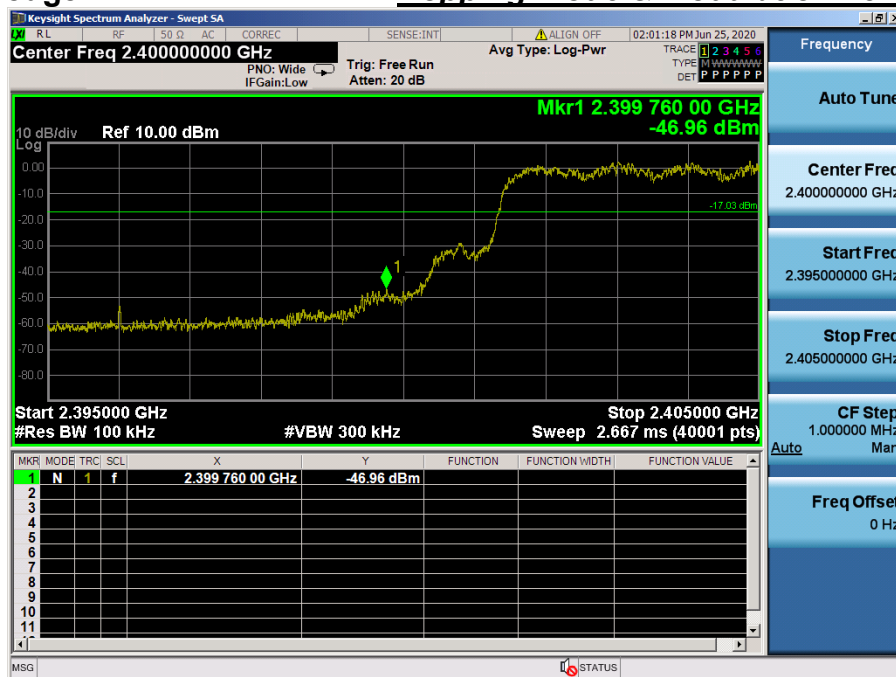
## Highest Channel & Modulation : $\pi/4$ DQPSK



## Low Band-edge

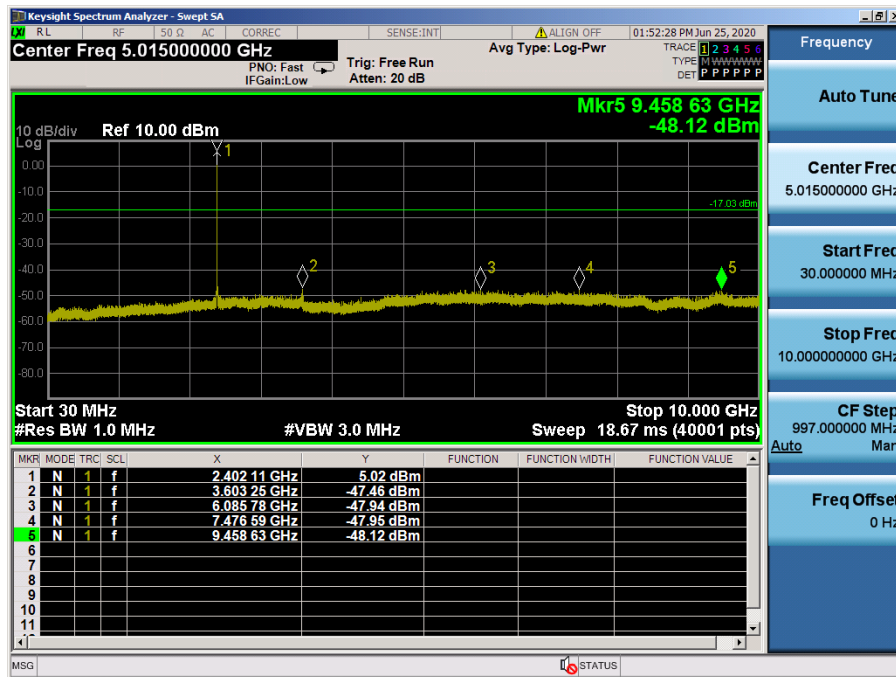
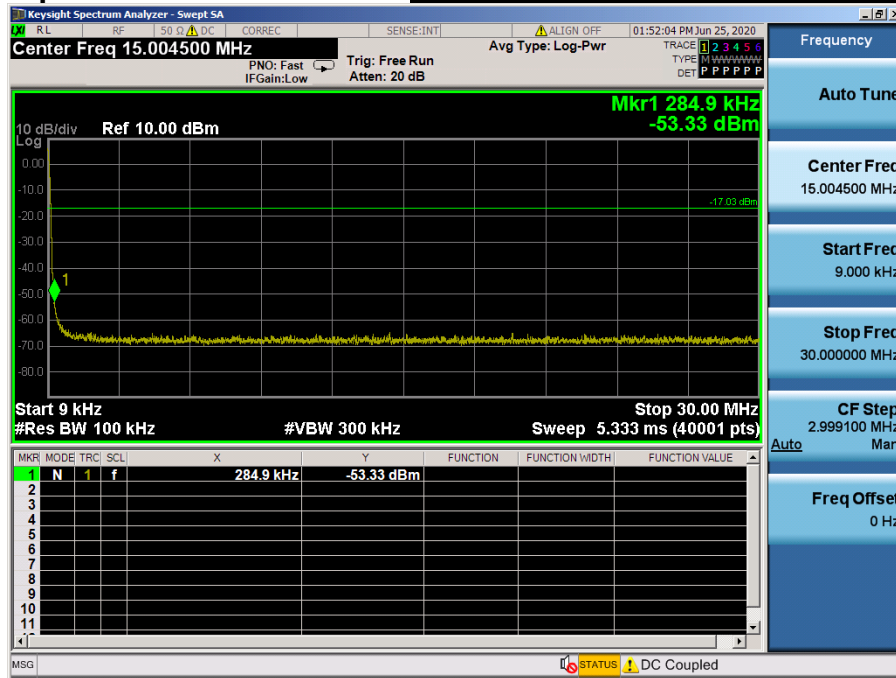
Lowest Channel & Modulation : 8DPSK

## Low Band-edge

Hopping mode & Modulation : 8DPSK

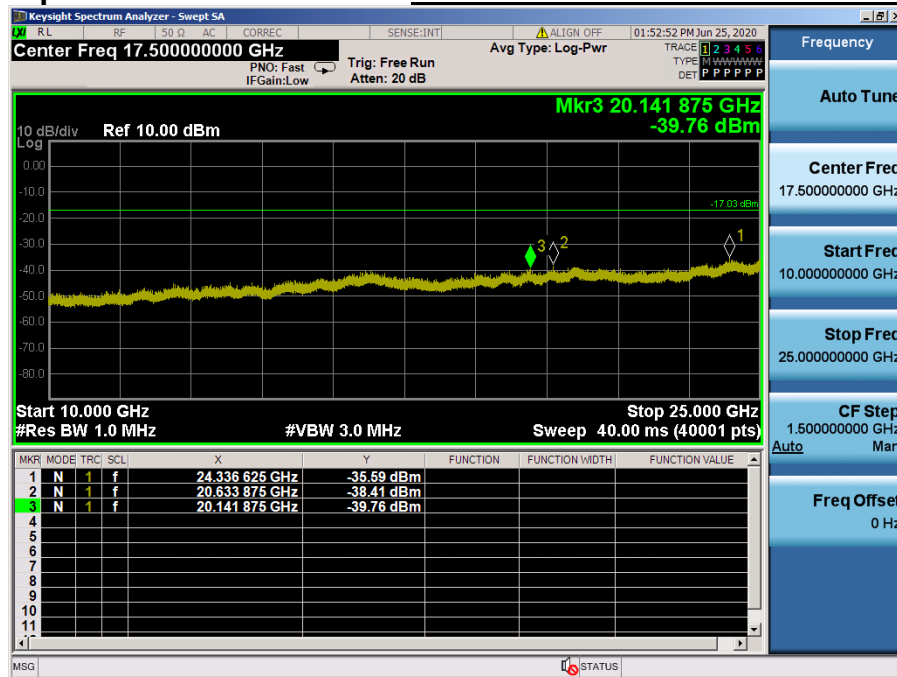
## Conducted Spurious Emissions

## Lowest Channel & Modulation : 8DPSK



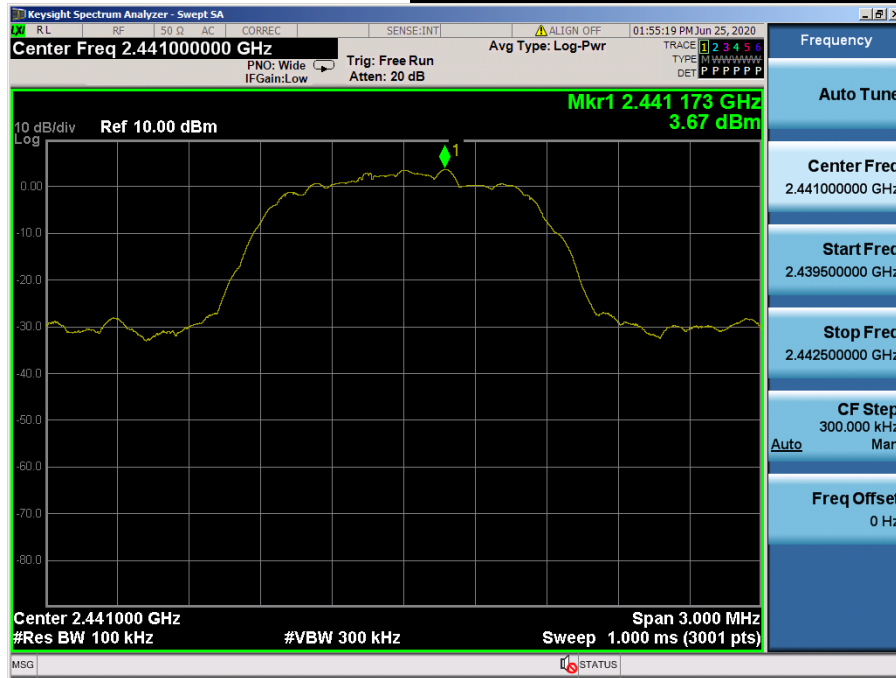
## Conducted Spurious Emissions

## Lowest Channel & Modulation : 8DPSK



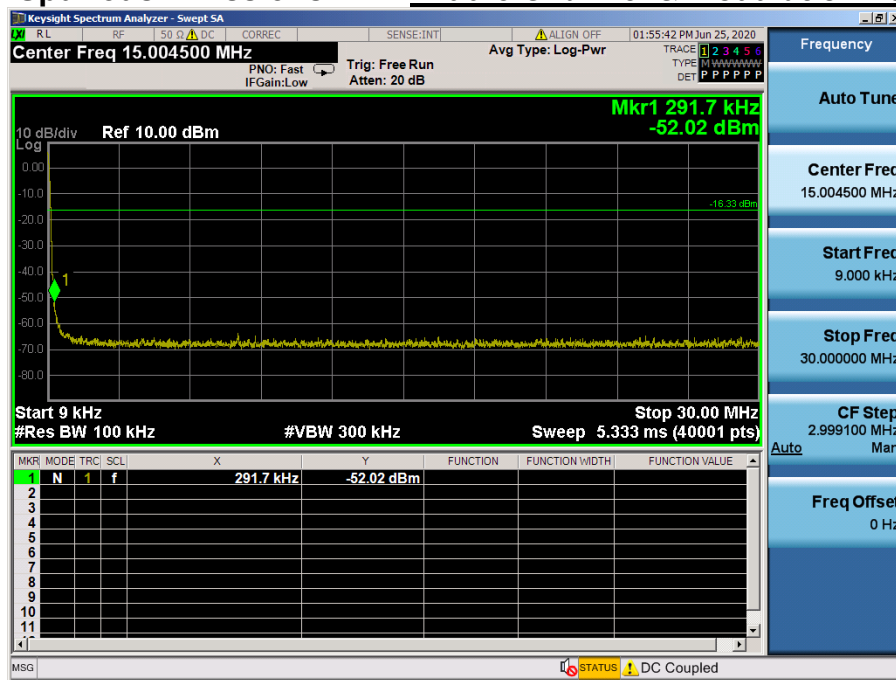
Reference for limit

Middle Channel & Modulation : 8DPSK



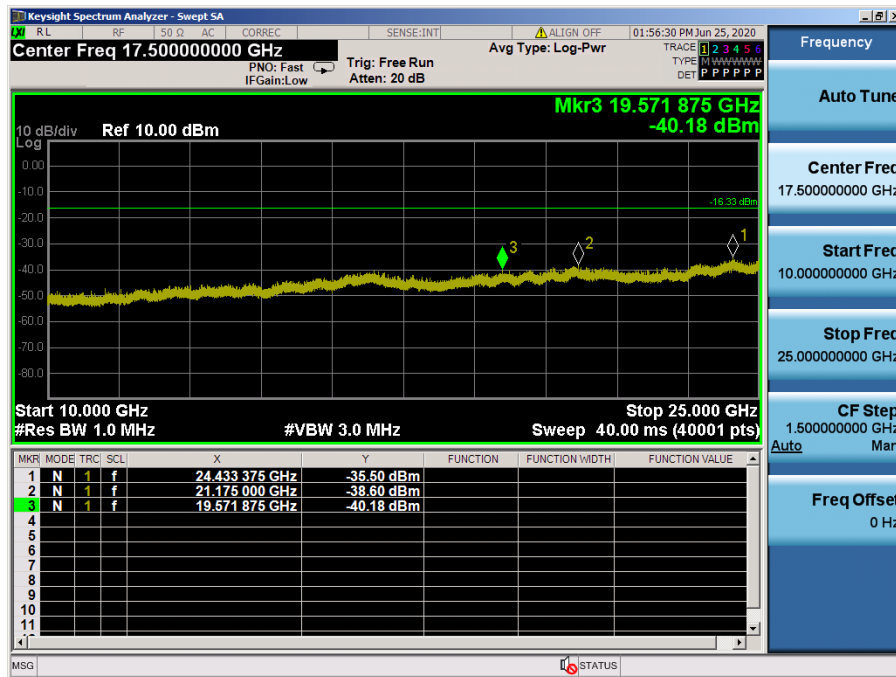
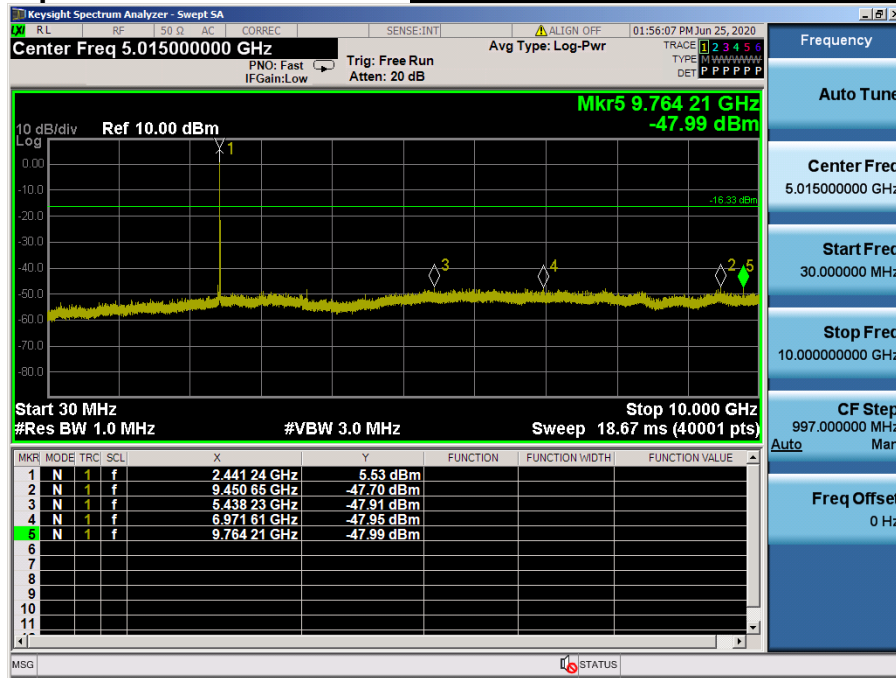
Conducted Spurious Emissions

Middle Channel & Modulation : 8DPSK

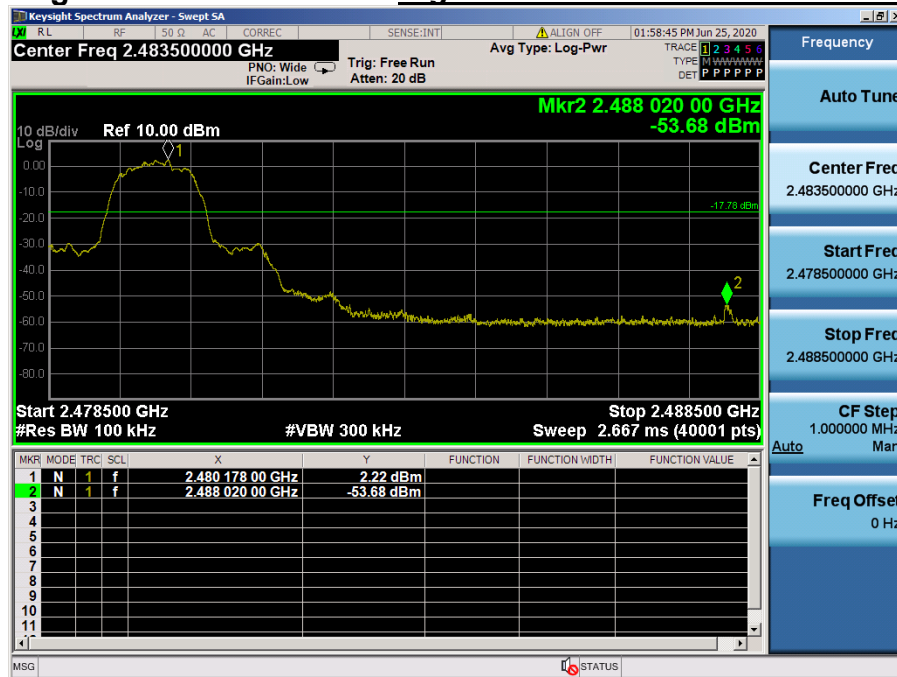


## Conducted Spurious Emissions

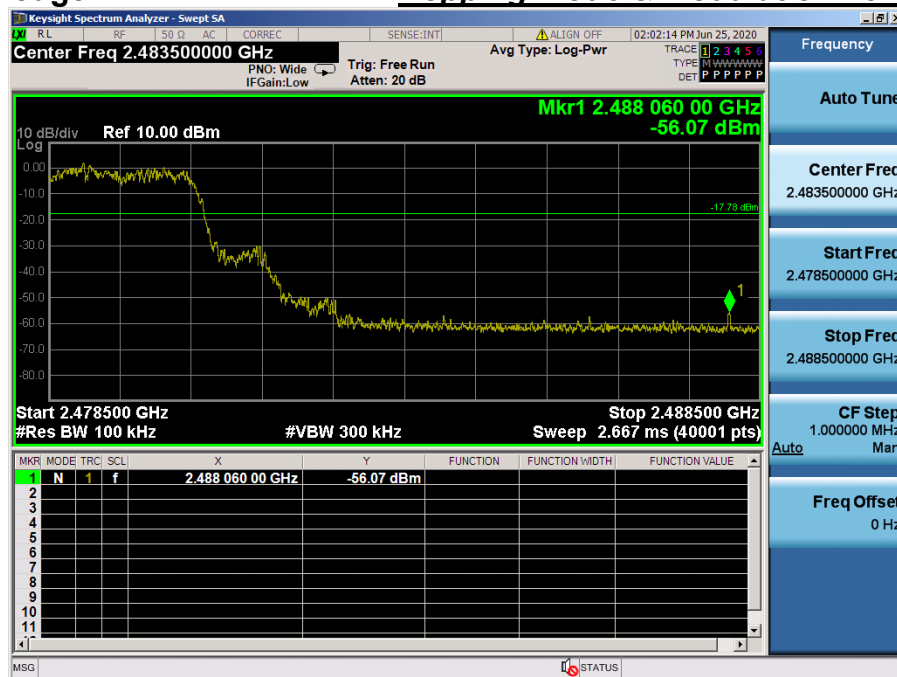
## Middle Channel & Modulation : 8DPSK



## High Band-edge

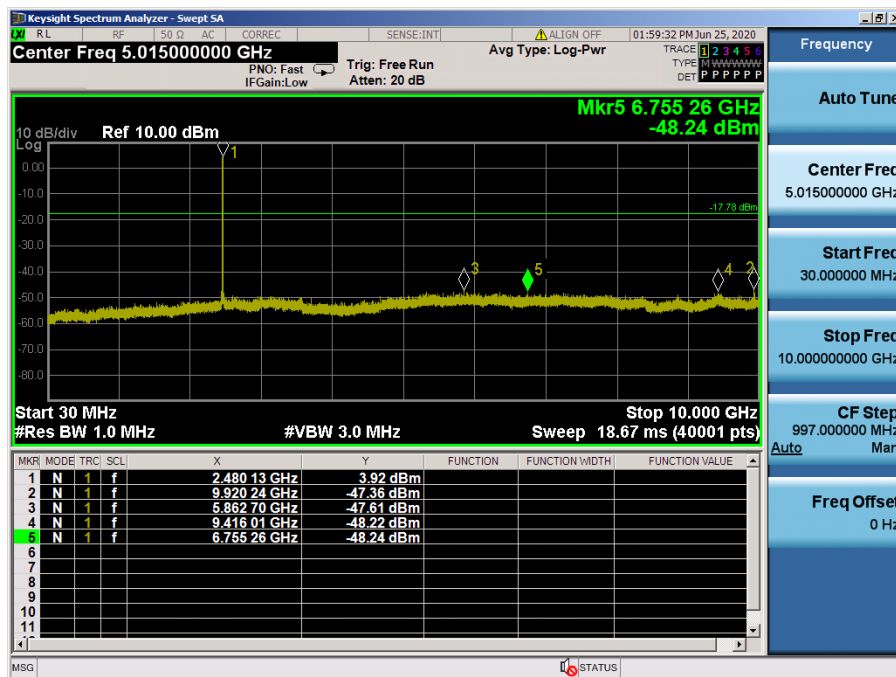
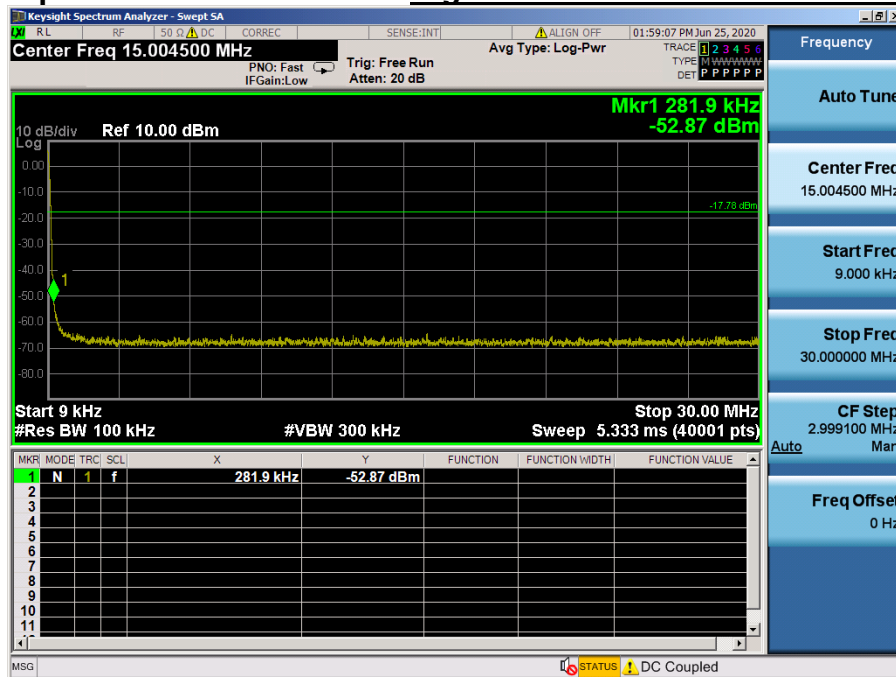
Highest Channel & Modulation : 8DPSK

## High Band-edge

Hopping mode & Modulation : 8DPSK

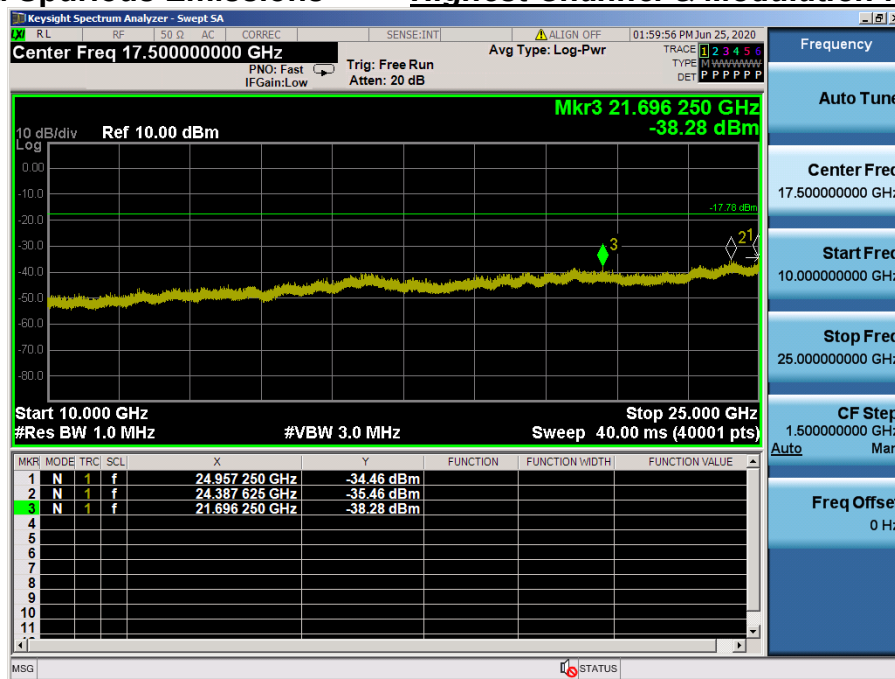
## Conducted Spurious Emissions

## Highest Channel & Modulation : 8DPSK



# Conducted Spurious Emissions

## Highest Channel & Modulation : 8DPSK



## 8. Transmitter AC Power Line Conducted Emission

### 8.1 Test Setup

See test photographs for the actual connections between EUT and support equipment.

### 8.2 Limit

According to §15.207(a) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network (LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

| Frequency Range (MHz) | Conducted Limit (dBuV) |            |
|-----------------------|------------------------|------------|
|                       | Quasi-Peak             | Average    |
| 0.15 ~ 0.5            | 66 to 56 *             | 56 to 46 * |
| 0.5 ~ 5               | 56                     | 46         |
| 5 ~ 30                | 60                     | 50         |

\* Decreases with the logarithm of the frequency

### 8.3 Test Procedures

Conducted emissions from the EUT were measured according to the ANSI C63.10.

1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

## 8.4 Test Results

### AC Line Conducted Emissions (Graph) = 8DPSK & 2 441 MHz

#### Results of Conducted Emission

DTNC

Date 2020-06-25

Order No.  
Model No.  
Serial No.  
Test Condition

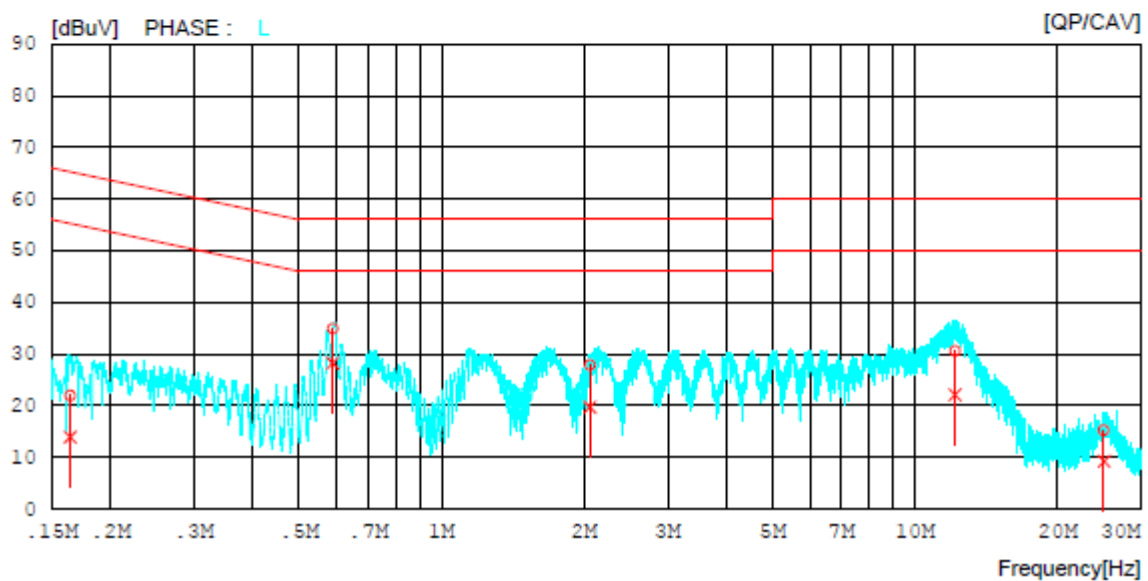
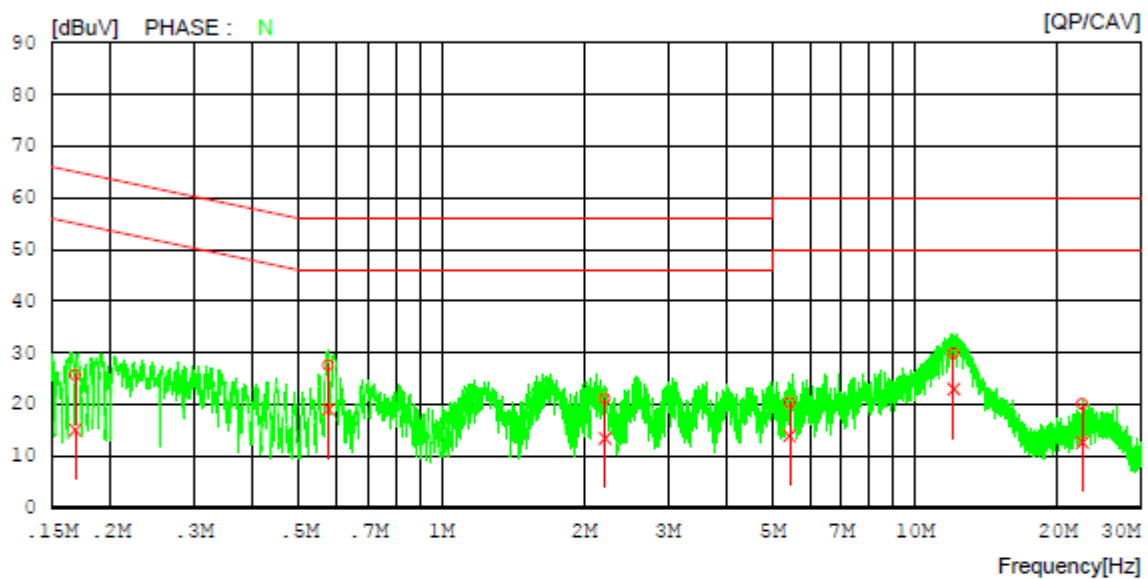
PPU-BN0600BK01  
BT

Reference No.  
Power Supply  
Temp/Humi.  
Operator

120 V, 60 Hz  
23 °C / 35 %  
I. H. Bae

Memo

LIMIT : FCC P15.207 QP  
FCC P15.207 AV



## AC Line Conducted Emissions (List) = 8DPSK & 2 441 MHz

### Results of Conducted Emission

DTNC

Date 2020-06-25

|                |                |               |              |
|----------------|----------------|---------------|--------------|
| Order No.      |                | Reference No. |              |
| Model No.      | PPU-BN0600BK01 | Power Supply  | 120 V, 60 Hz |
| Serial No.     |                | Temp/Humi.    | 23 °C / 35 % |
| Test Condition | BT             | Operator      | I. H. Bae    |

Memo

LIMIT : FCC P15.207 QP  
FCC P15.207 AV

| NO | FREQ<br>[MHz] | READING      |               | C.FACTOR<br>[dB] | RESULT       |               | LIMIT        |               | MARGIN       |               | PHASE |
|----|---------------|--------------|---------------|------------------|--------------|---------------|--------------|---------------|--------------|---------------|-------|
|    |               | QP<br>[dBuV] | CAV<br>[dBuV] |                  | QP<br>[dBuV] | CAV<br>[dBuV] | QP<br>[dBuV] | CAV<br>[dBuV] | QP<br>[dBuV] | CAV<br>[dBuV] |       |
| 1  | 0.16817       | 15.73        | 5.07          | 9.96             | 25.69        | 15.03         | 65.05        | 55.05         | 39.36        | 40.02         | N     |
| 2  | 0.57633       | 17.63        | 9.03          | 9.96             | 27.59        | 18.99         | 56.00        | 46.00         | 28.41        | 27.01         | N     |
| 3  | 2.21287       | 11.10        | 3.39          | 10.03            | 21.13        | 13.42         | 56.00        | 46.00         | 34.87        | 32.58         | N     |
| 4  | 5.43423       | 10.19        | 3.71          | 10.18            | 20.37        | 13.89         | 60.00        | 50.00         | 39.63        | 36.11         | N     |
| 5  | 12.06724      | 19.56        | 12.63         | 10.38            | 29.94        | 23.01         | 60.00        | 50.00         | 30.06        | 26.99         | N     |
| 6  | 22.57936      | 9.58         | 2.14          | 10.55            | 20.13        | 12.69         | 60.00        | 50.00         | 39.87        | 37.31         | N     |
| 7  | 0.16427       | 11.98        | 3.90          | 9.95             | 21.93        | 13.85         | 65.25        | 55.25         | 43.32        | 41.40         | L     |
| 8  | 0.58896       | 24.81        | 18.25         | 9.97             | 34.78        | 28.22         | 56.00        | 46.00         | 21.22        | 17.78         | L     |
| 9  | 2.05633       | 17.76        | 9.66          | 10.04            | 27.80        | 19.70         | 56.00        | 46.00         | 28.20        | 26.30         | L     |
| 10 | 12.15160      | 20.20        | 11.71         | 10.37            | 30.57        | 22.08         | 60.00        | 50.00         | 29.43        | 27.92         | L     |
| 11 | 25.06856      | 4.68         | -1.38         | 10.54            | 15.22        | 9.16          | 60.00        | 50.00         | 44.78        | 40.84         | L     |

## 9. Antenna Requirement

Describe how the EUT complies with the requirement that either its antenna is permanently attached, or that it employs a unique antenna connector, for every antenna proposed for use with the EUT.

**Conclusion: Comply**

**The antenna is permanently attached. (Refer to Internal Photo file.)  
Therefore this EUT complies with the requirement of §15.203.**

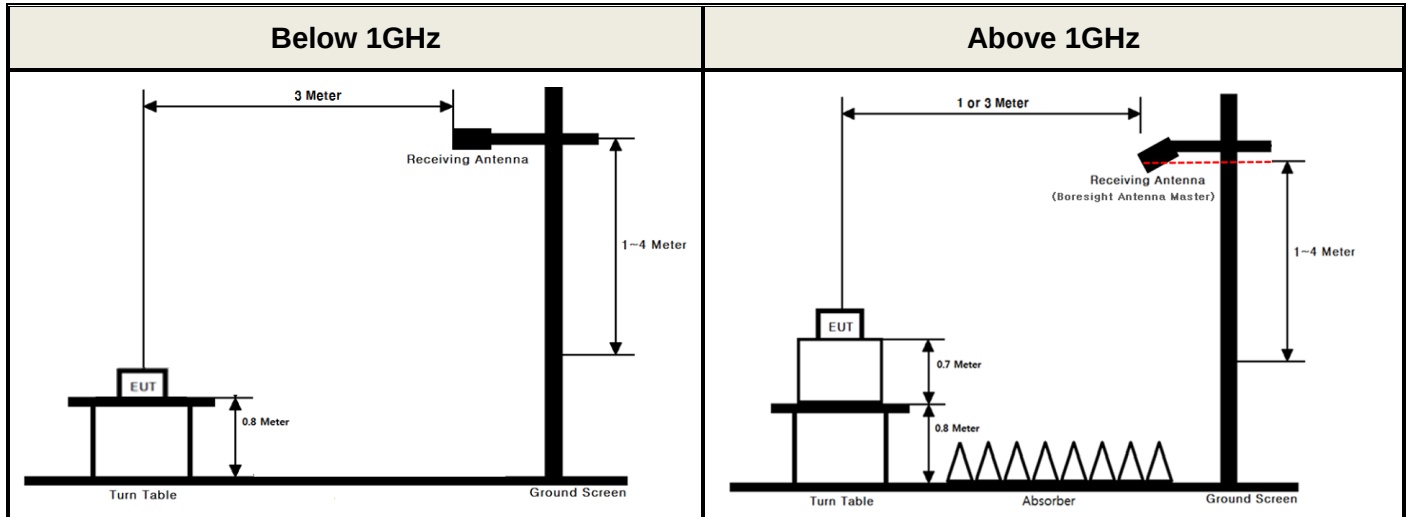
### - Minimum Standard :

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions.

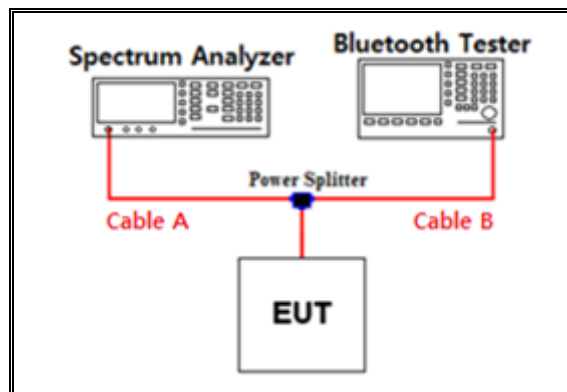
## APPENDIX I

### Test set up diagrams

#### ▪ Radiated Measurement



#### ▪ Conducted Measurement



Path loss information

| Frequency (GHz)       | Path Loss (dB) | Frequency (GHz) | Path Loss (dB) |
|-----------------------|----------------|-----------------|----------------|
| 0.03                  | 6.41           | 15              | 11.11          |
| 1                     | 7.12           | 20              | 12.22          |
| 2.402 & 2.441 & 2.480 | 8.25           | 25              | 12.50          |
| 5                     | 8.68           | -               | -              |
| 10                    | 8.84           | -               | -              |

Note 1 : The path loss from EUT to Spectrum analyzer were measured and used for test.

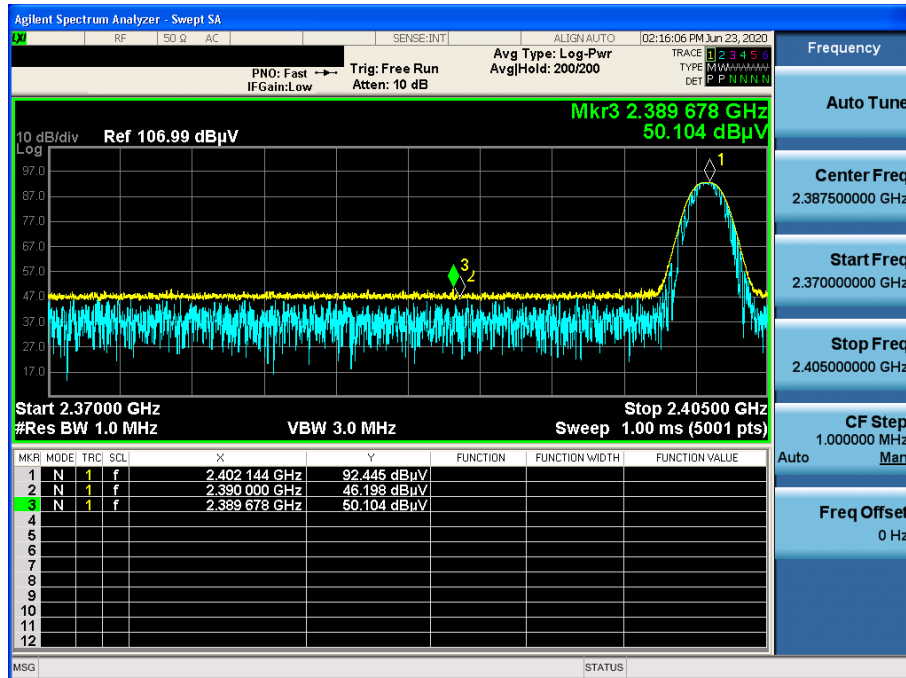
Path loss ( S/A's Correction factor) = Cable A+ Power splitter

## APPENDIX II

### Unwanted Emissions (Radiated) Test Plot

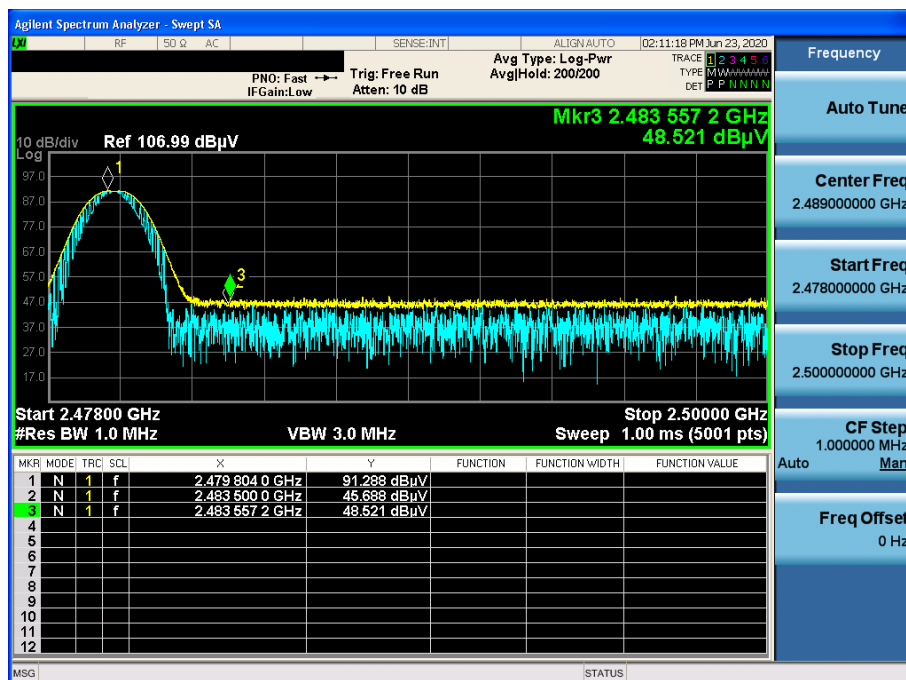
GFSK & Lowest & Y & Hor

Detector Mode : PK



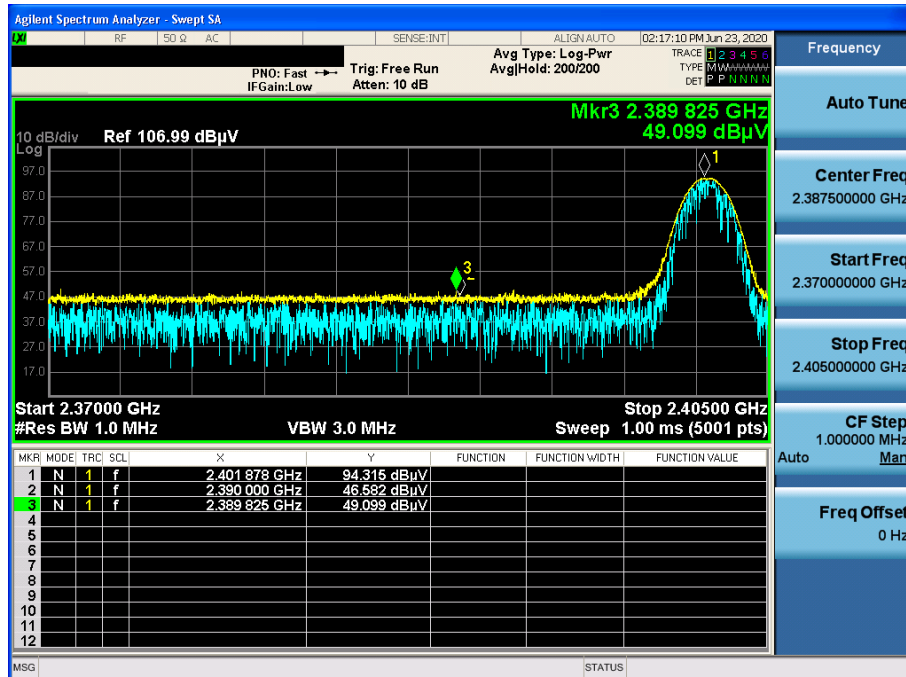
GFSK & Highest & Y & Ver

Detector Mode : PK



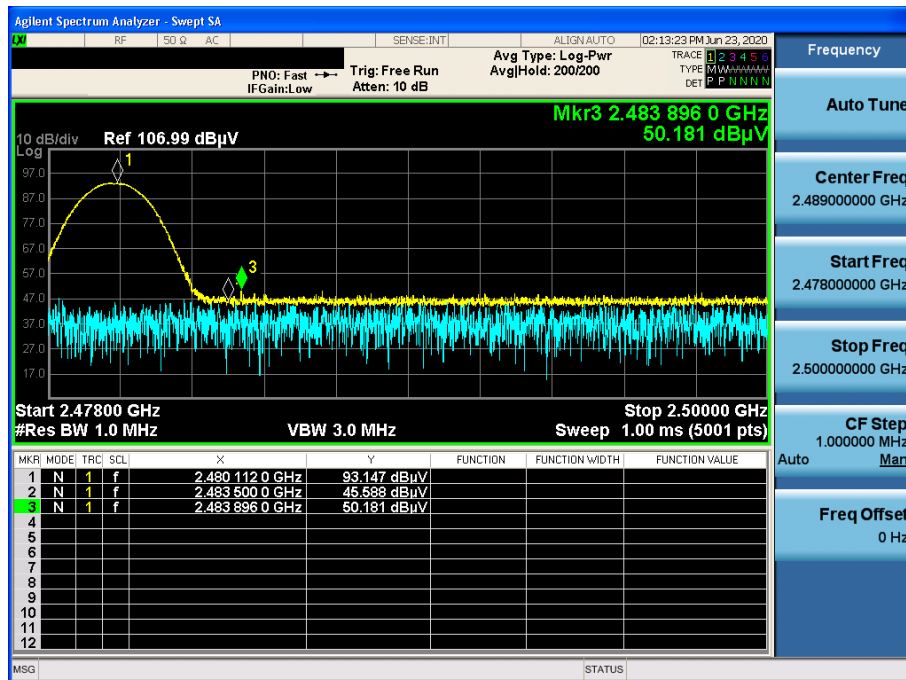
$\pi/4$ DQPSK & Lowest & Y & Hor

Detector Mode : PK



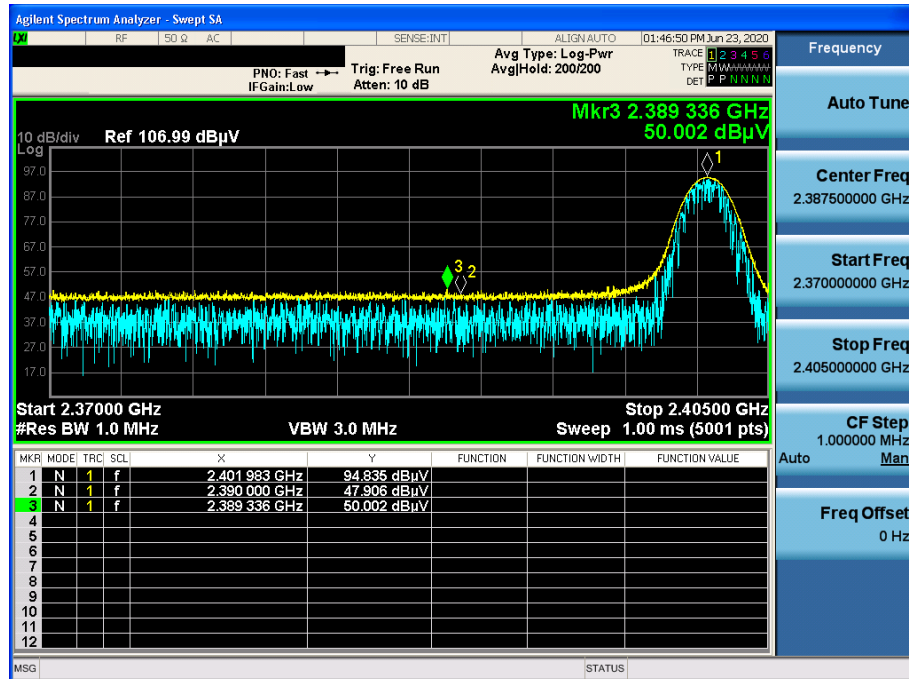
$\pi/4$ DQPSK & Highest & Y & Ver

Detector Mode : PK



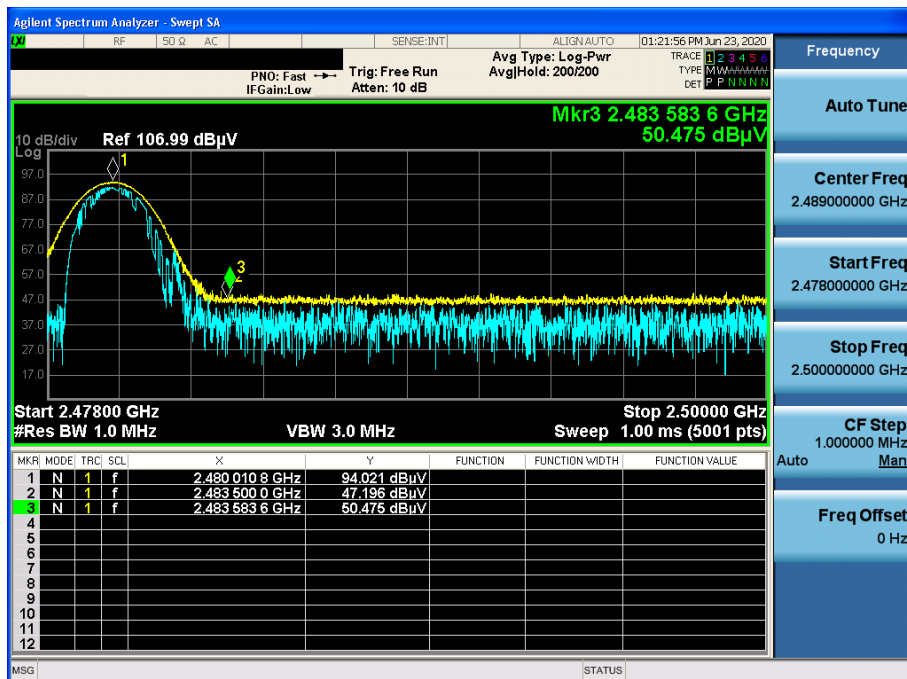
## 8DPSK &amp; Lowest &amp; Y &amp; Hor

Detector Mode : PK



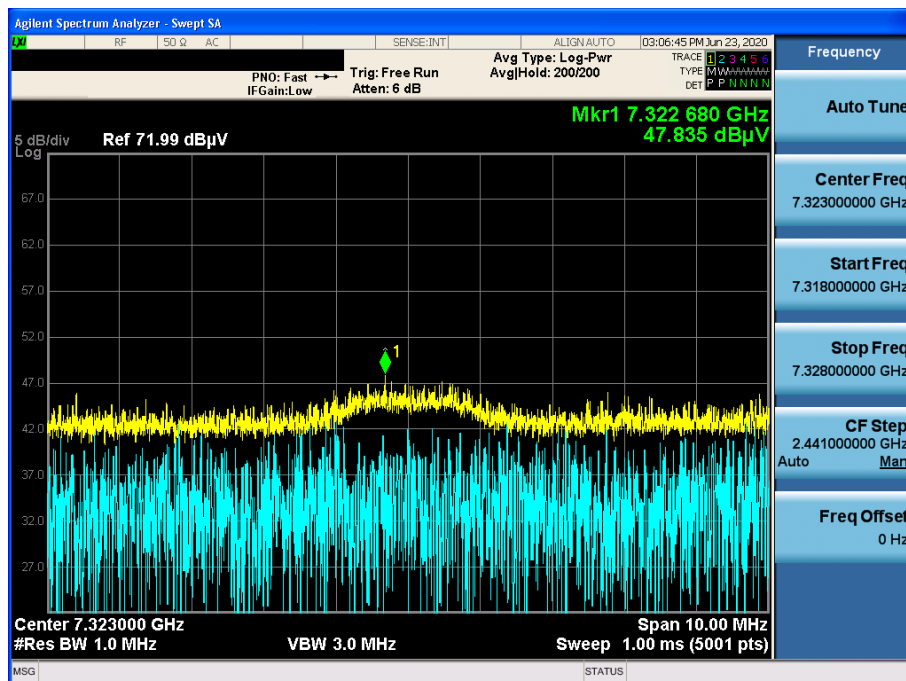
## 8DPSK &amp; Highest &amp; Y &amp; Ver

Detector Mode : PK



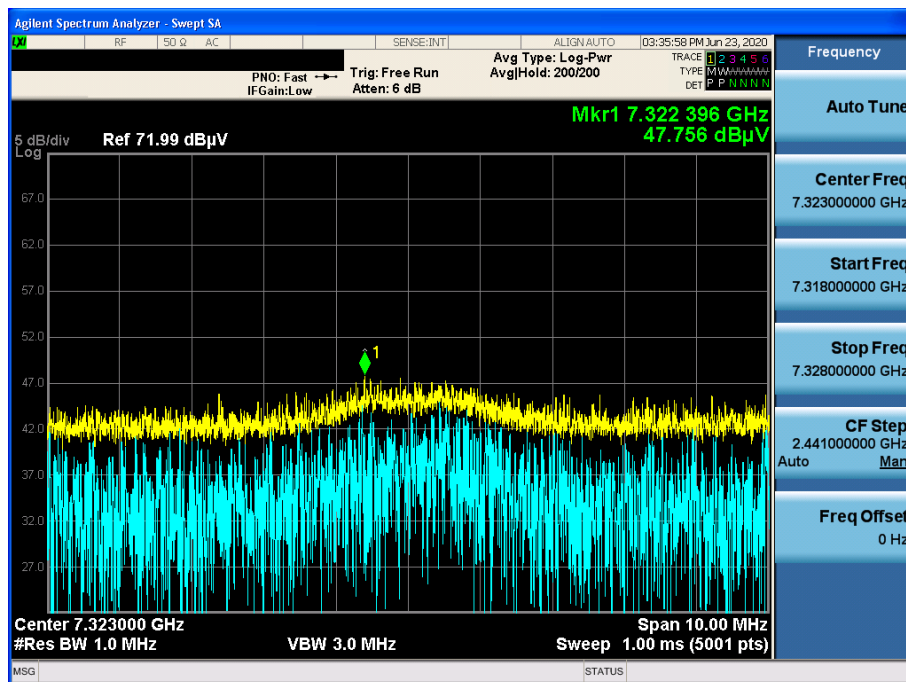
# GFSK & Middle & Z & Hor

Detector Mode : PK



# $\pi/4$ DQPSK & Middle & Z & Hor

Detector Mode : PK



# 8DPSK & Highest & Z & Hor

Detector Mode : PK

