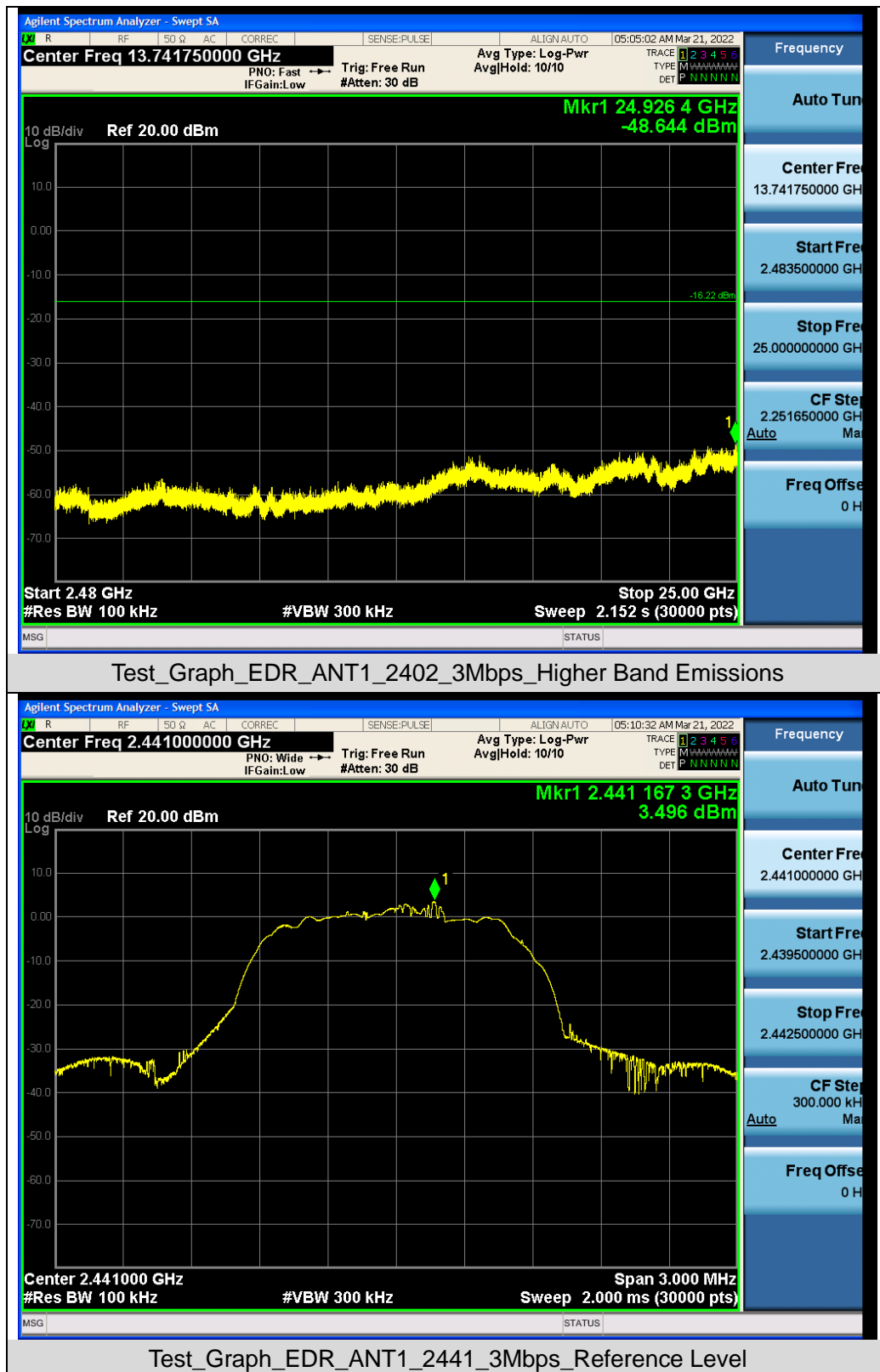
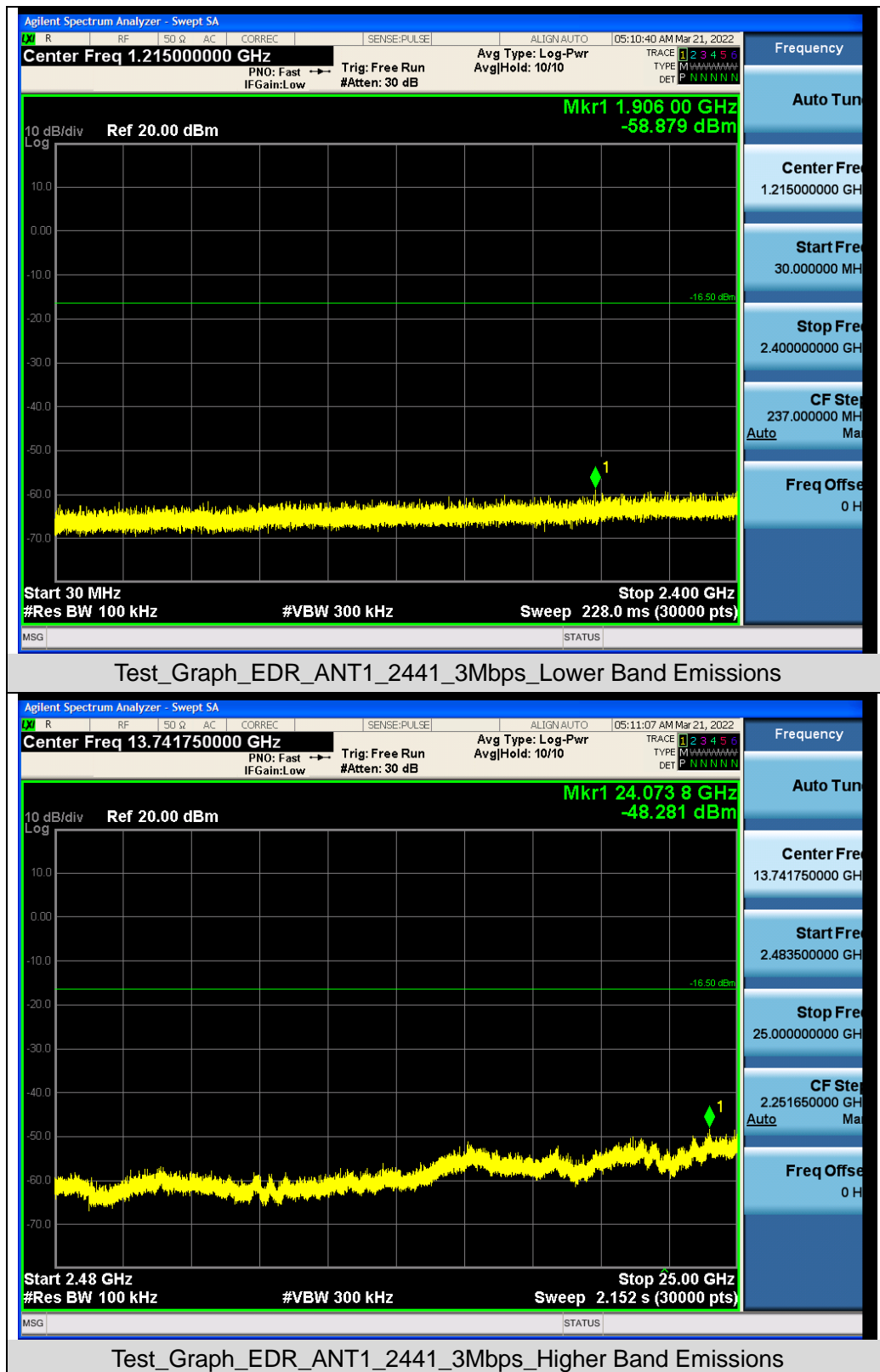


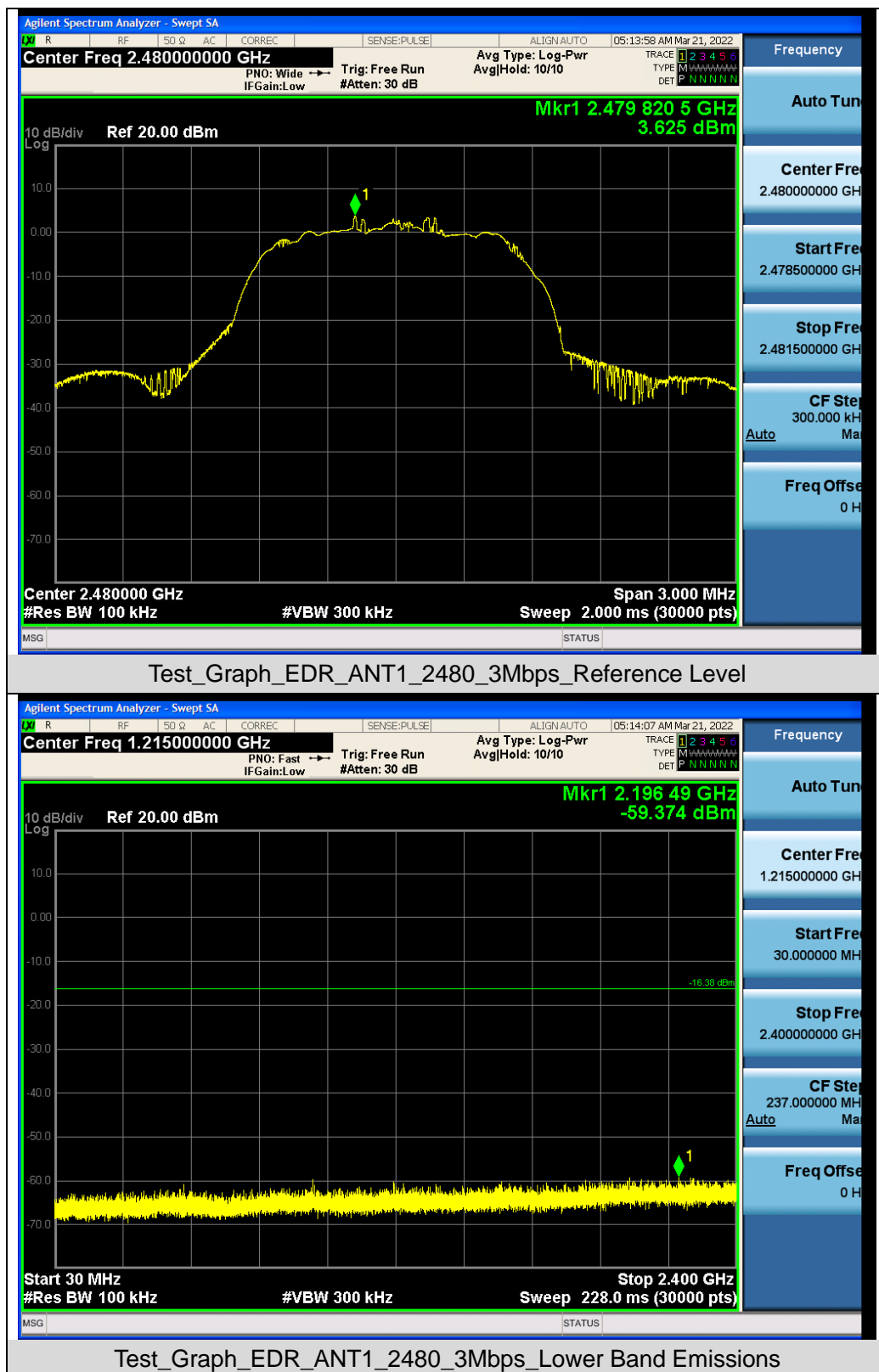
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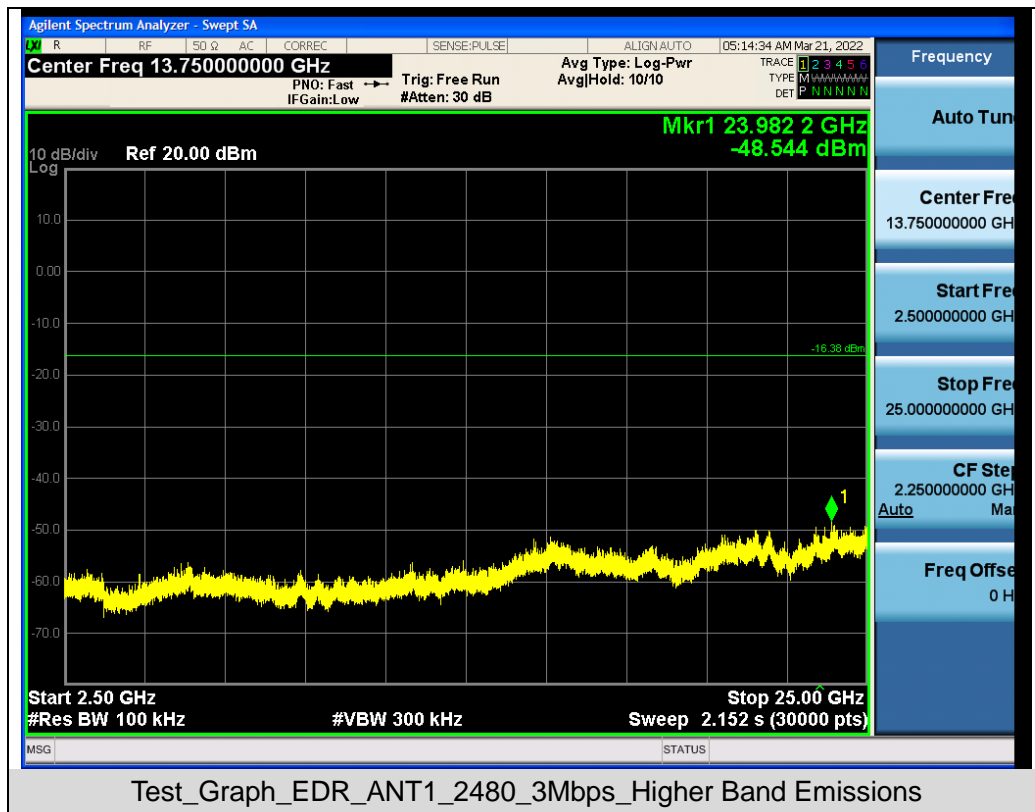


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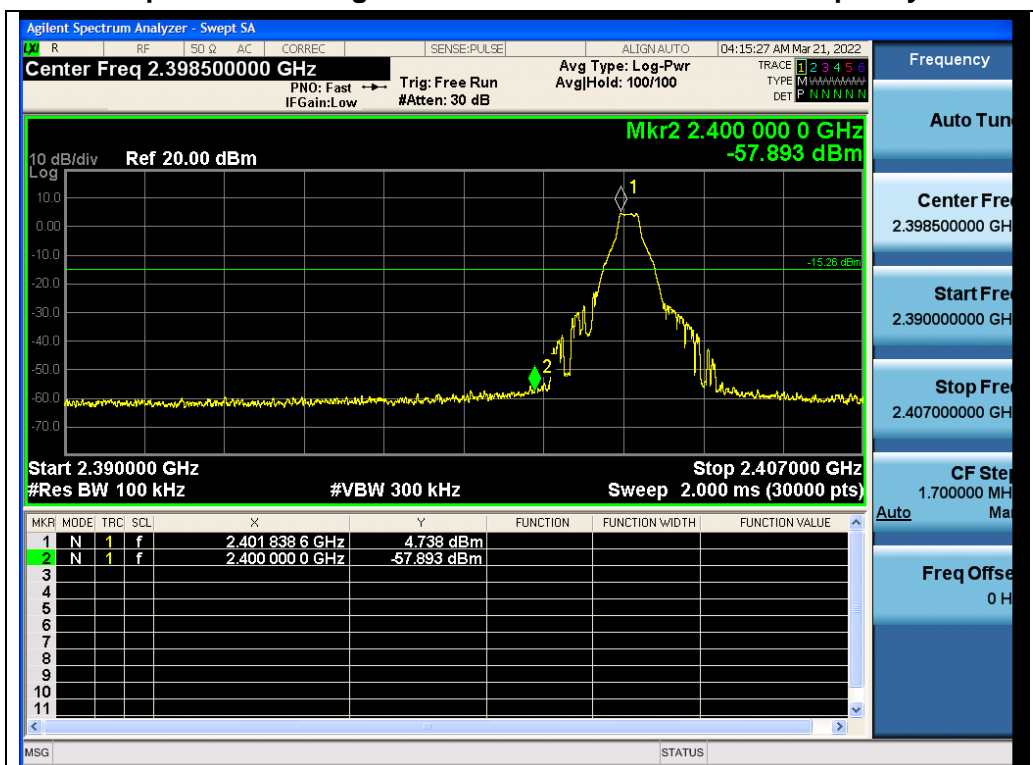
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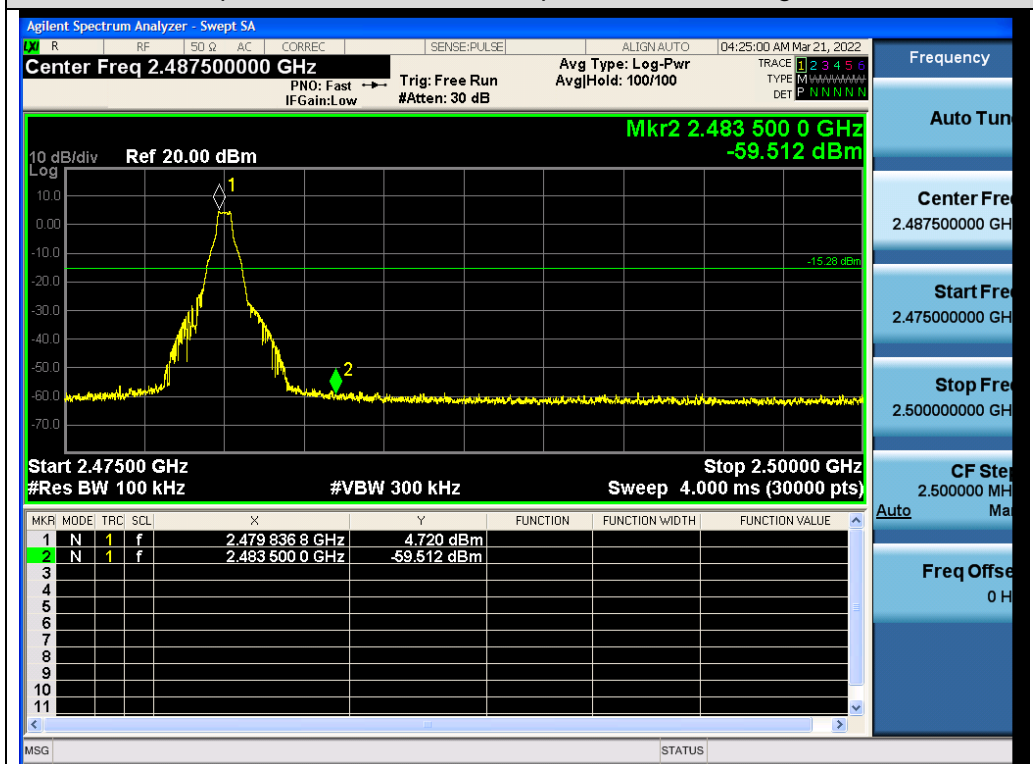
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## Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test\_Graph\_BR\_ANT1\_2402\_1Mbps\_Lower Band Edge Emissions



Test\_Graph\_BR\_ANT1\_2480\_1Mbps\_Higher Band Edge Emissions

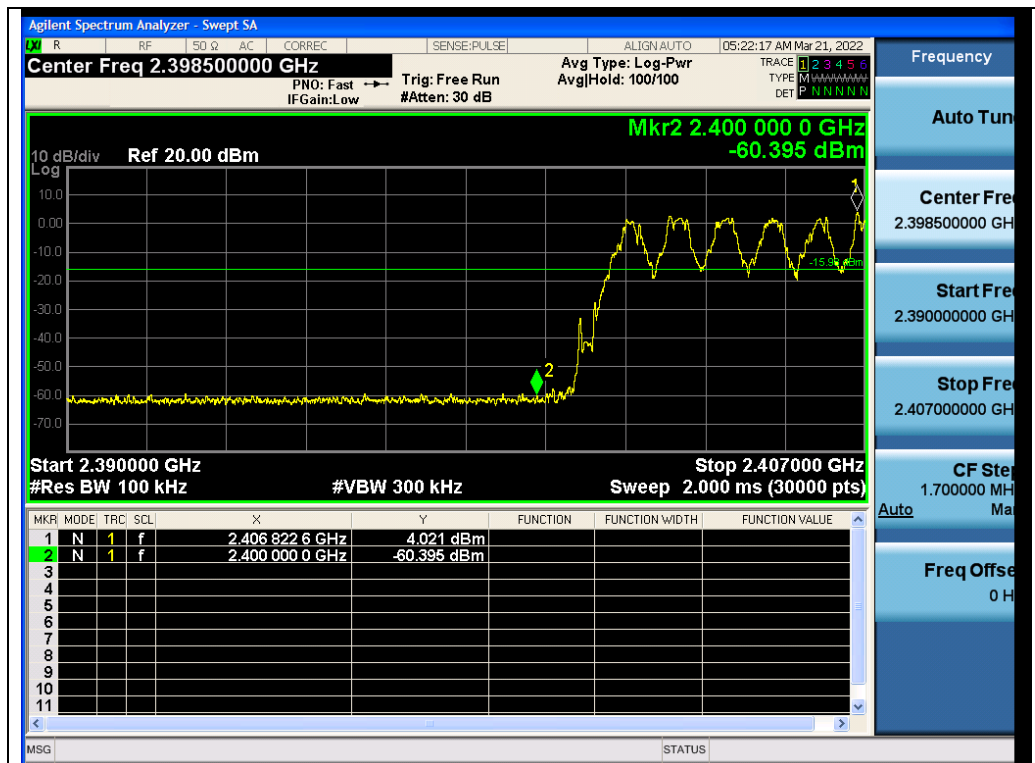
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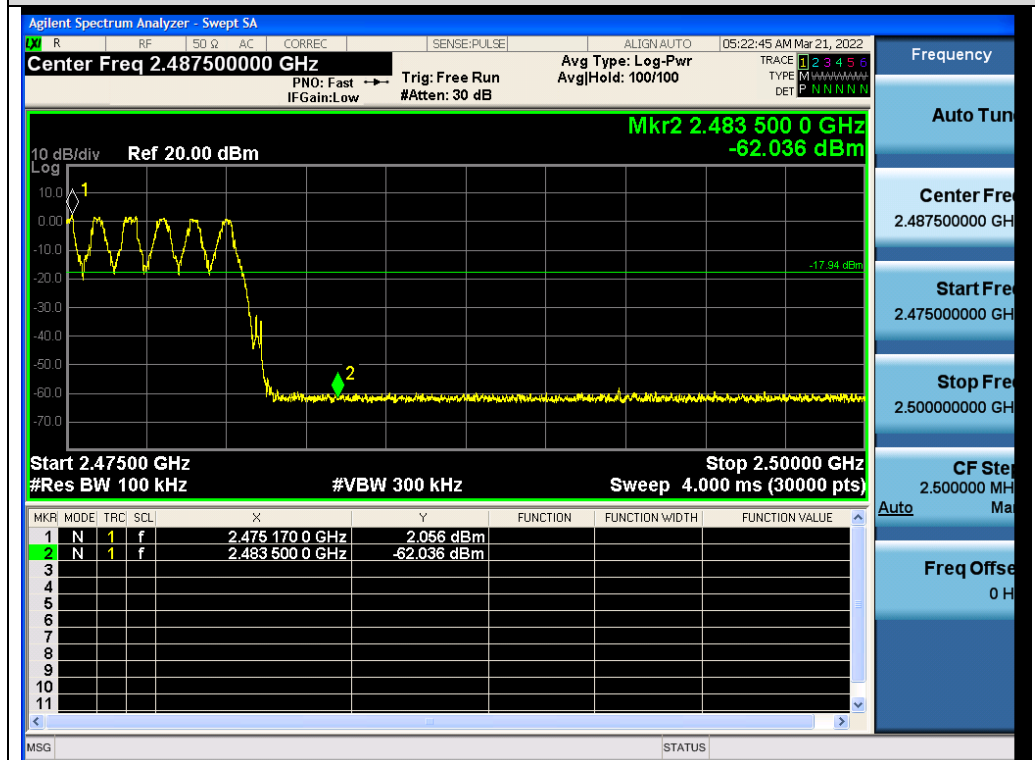
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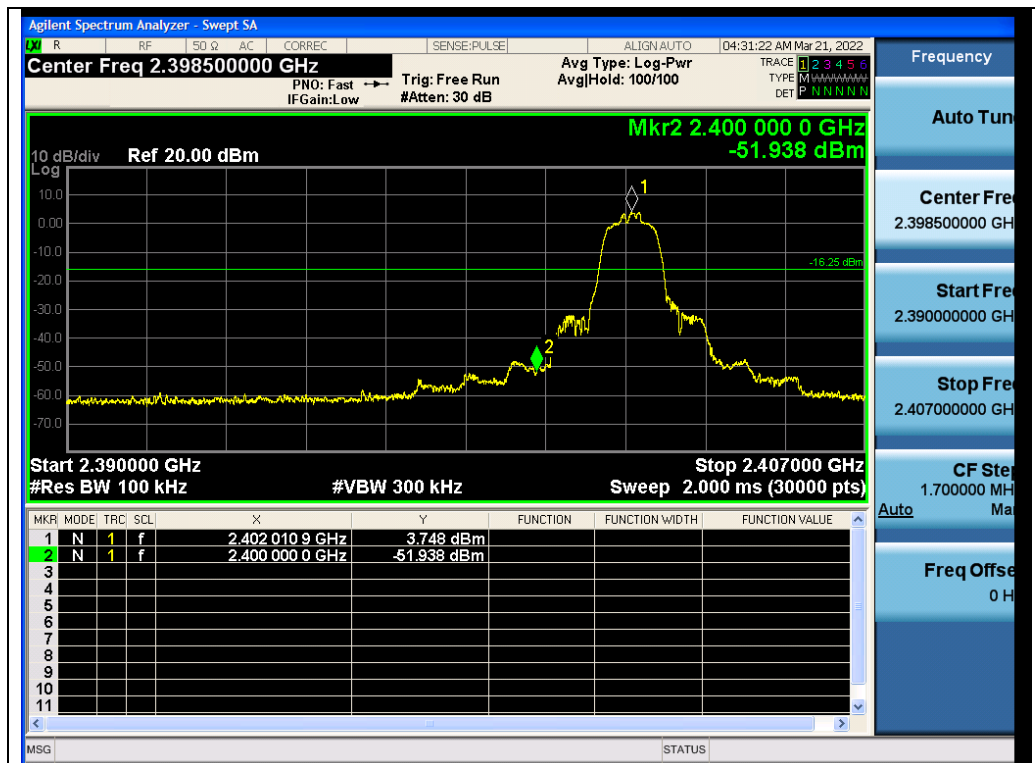


Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_Lower Band Edge Emissions

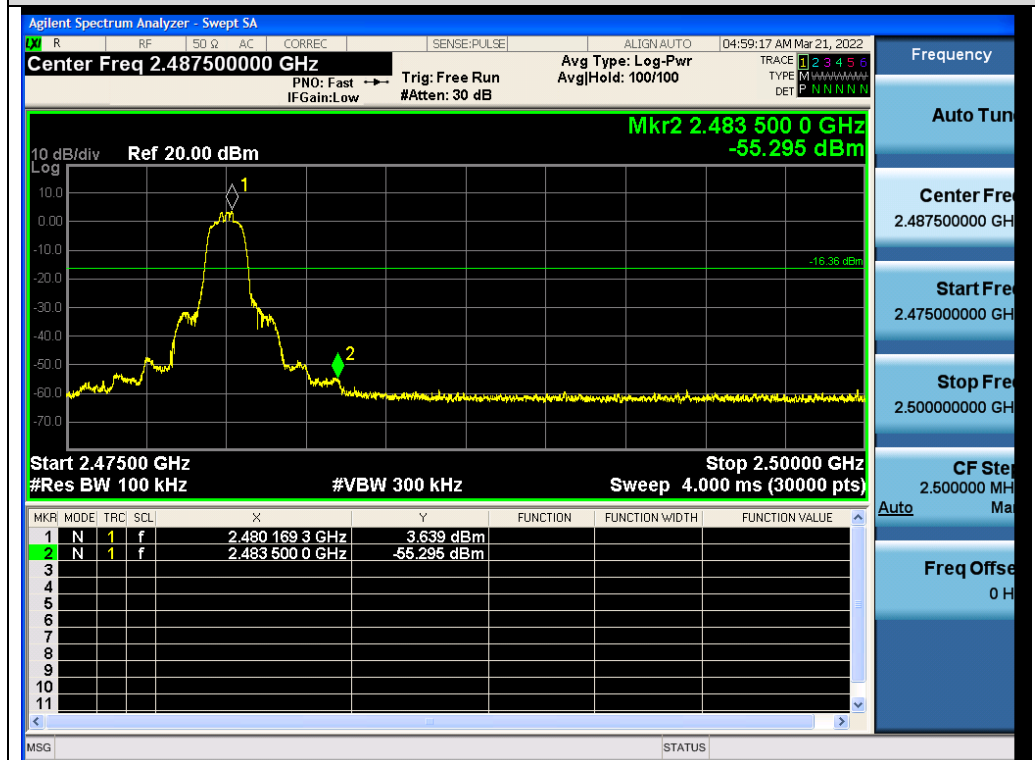


Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_Higher Band Edge Emissions

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Test\_Graph\_EDR\_ANT1\_2402\_2Mbps\_Lower Band Edge Emissions



Test\_Graph\_EDR\_ANT1\_2480\_2Mbps\_Higher Band Edge Emissions

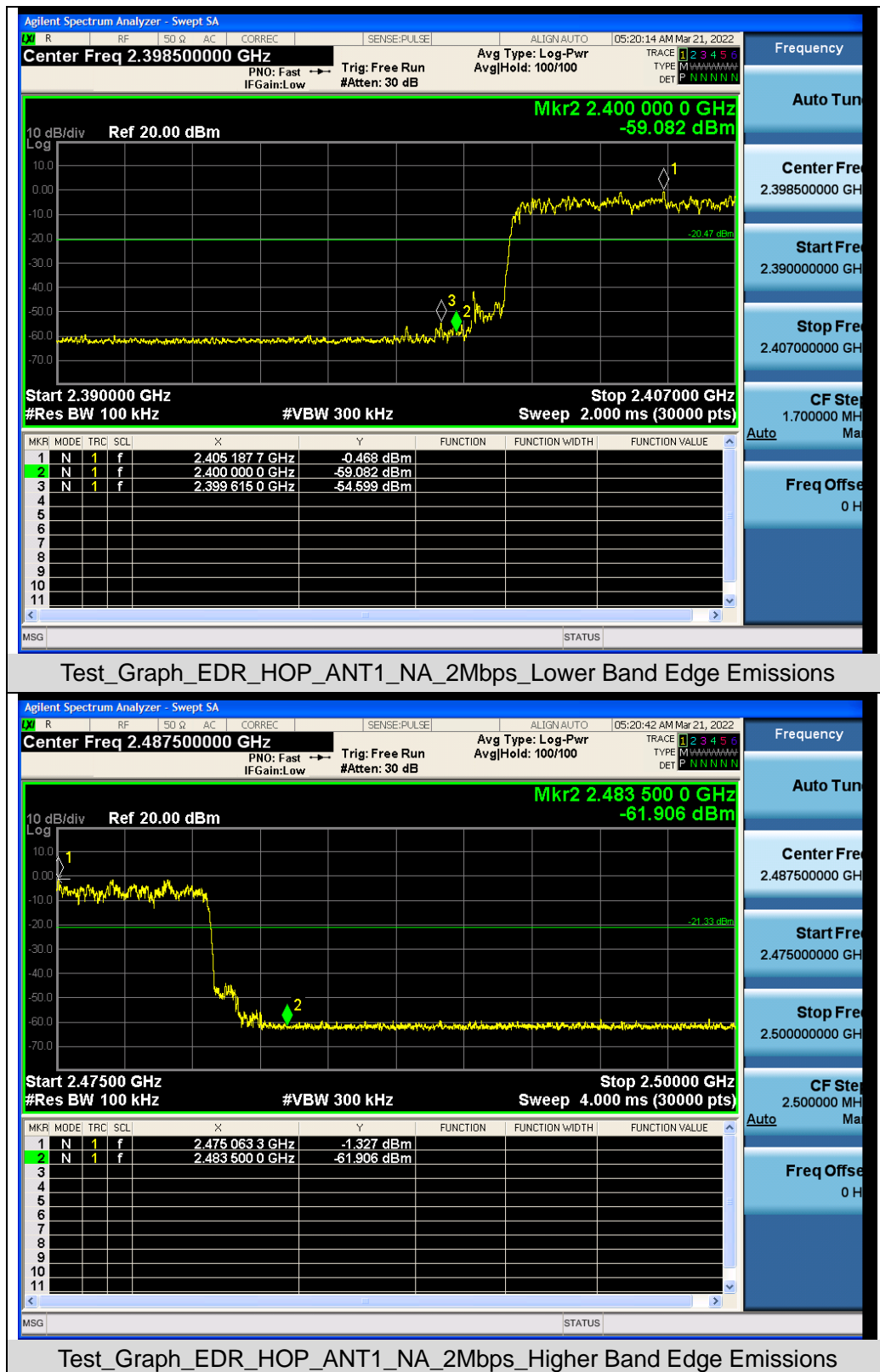
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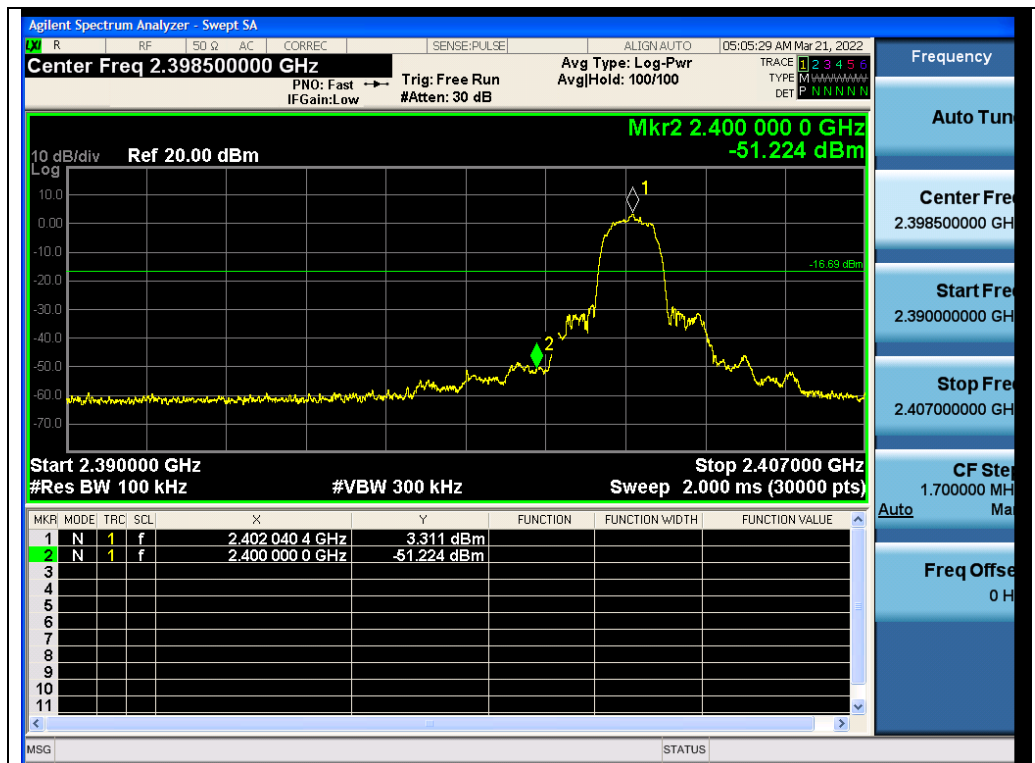
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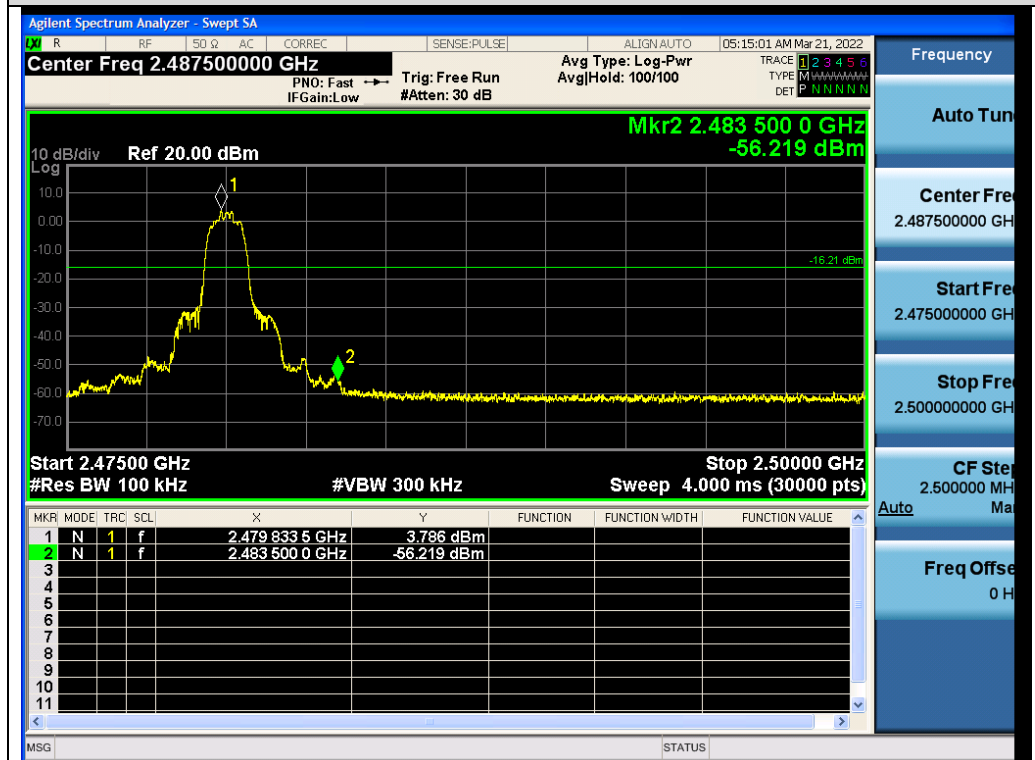




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Test\_Graph\_EDR\_ANT1\_2402\_3Mbps\_Lower Band Edge Emissions



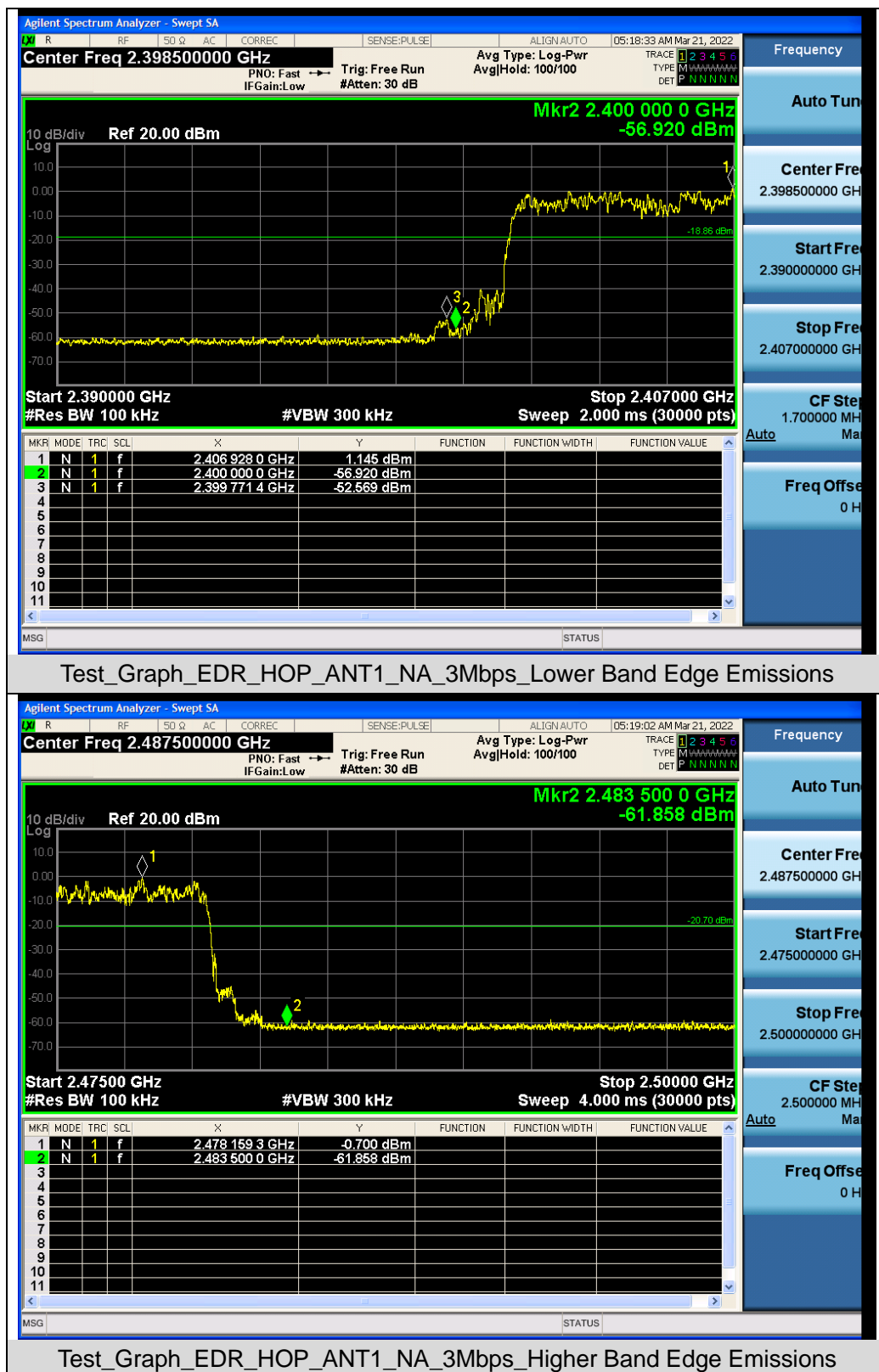
Test\_Graph\_EDR\_ANT1\_2480\_3Mbps\_Higher Band Edge Emissions

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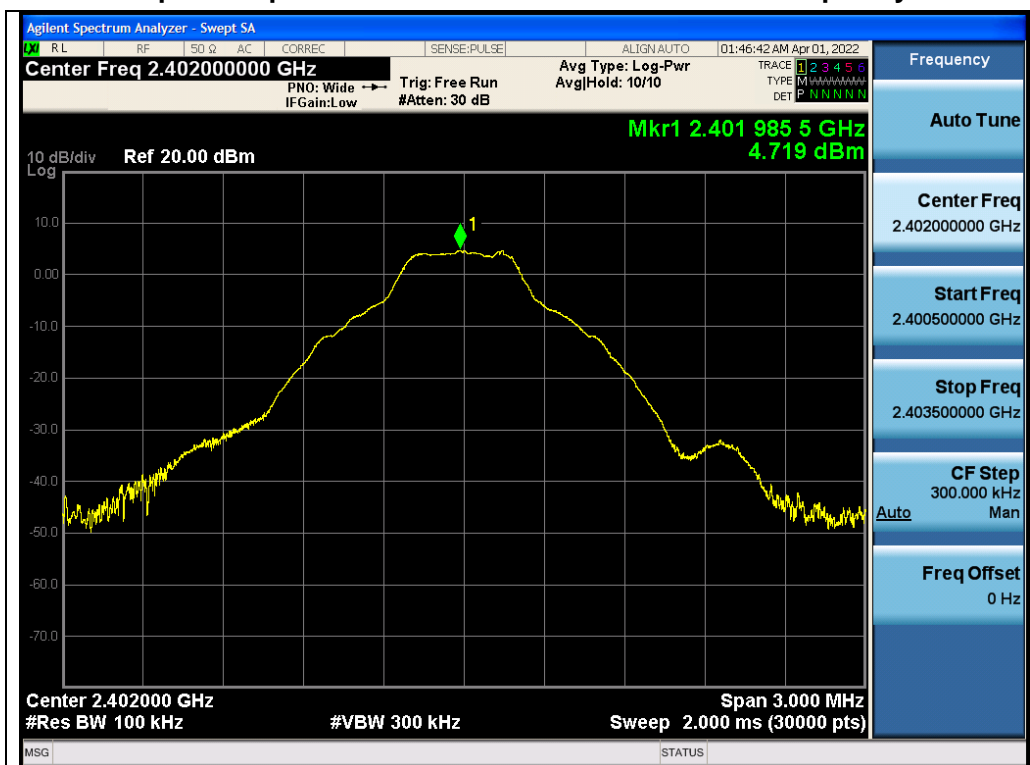
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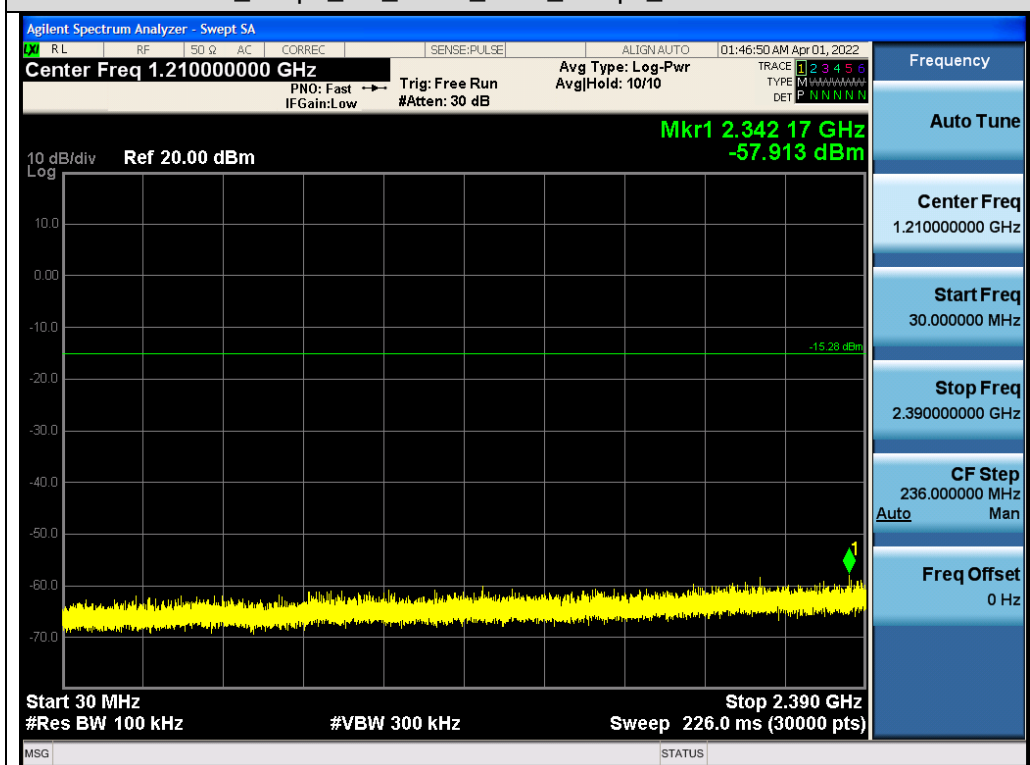


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## Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



Test\_Graph\_BR\_ANT2\_2402\_1Mbps\_Reference\_Level



Test Graph BR\_ANT2\_2402\_1Mbps\_Lower Band Emissions

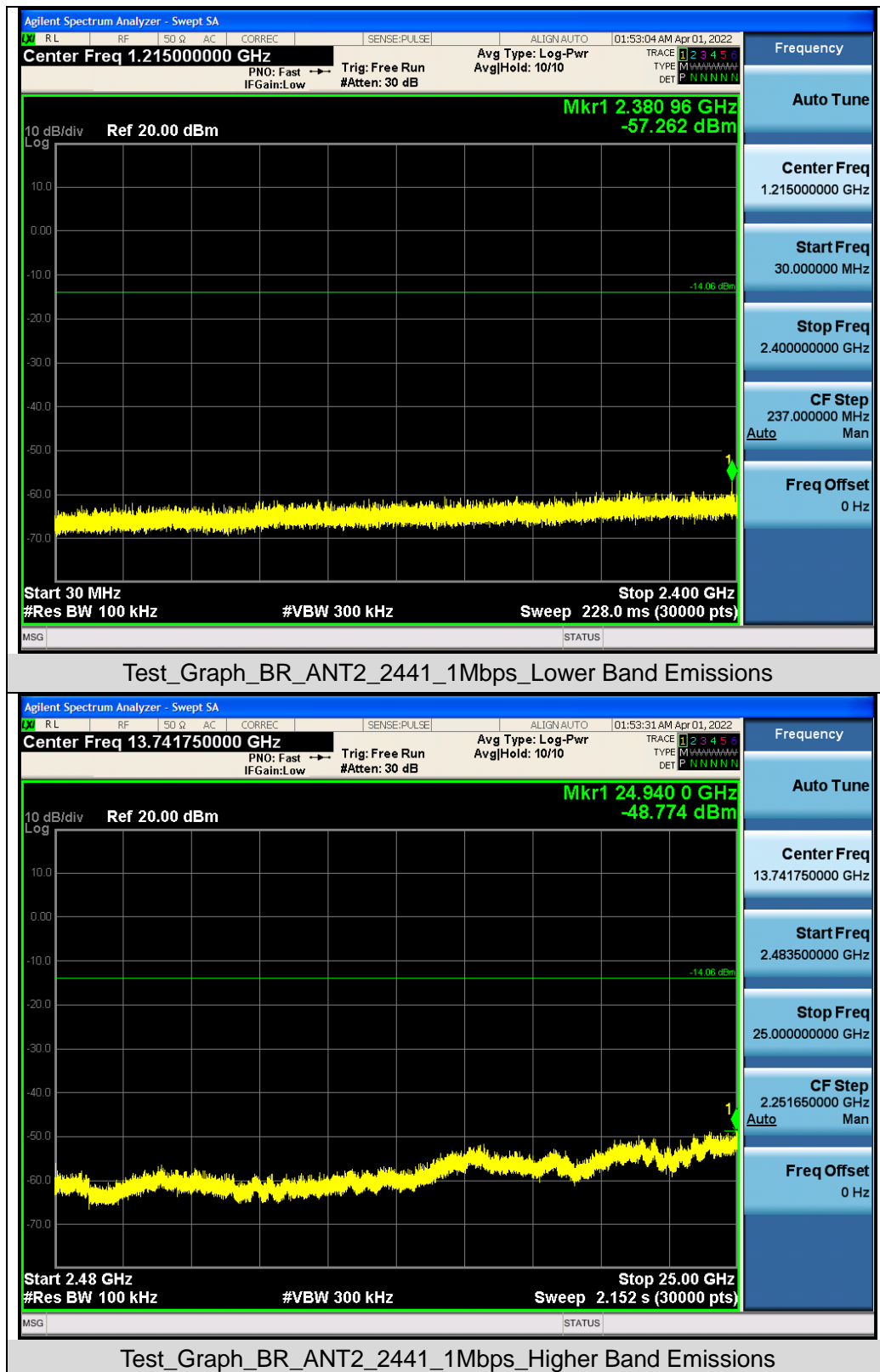
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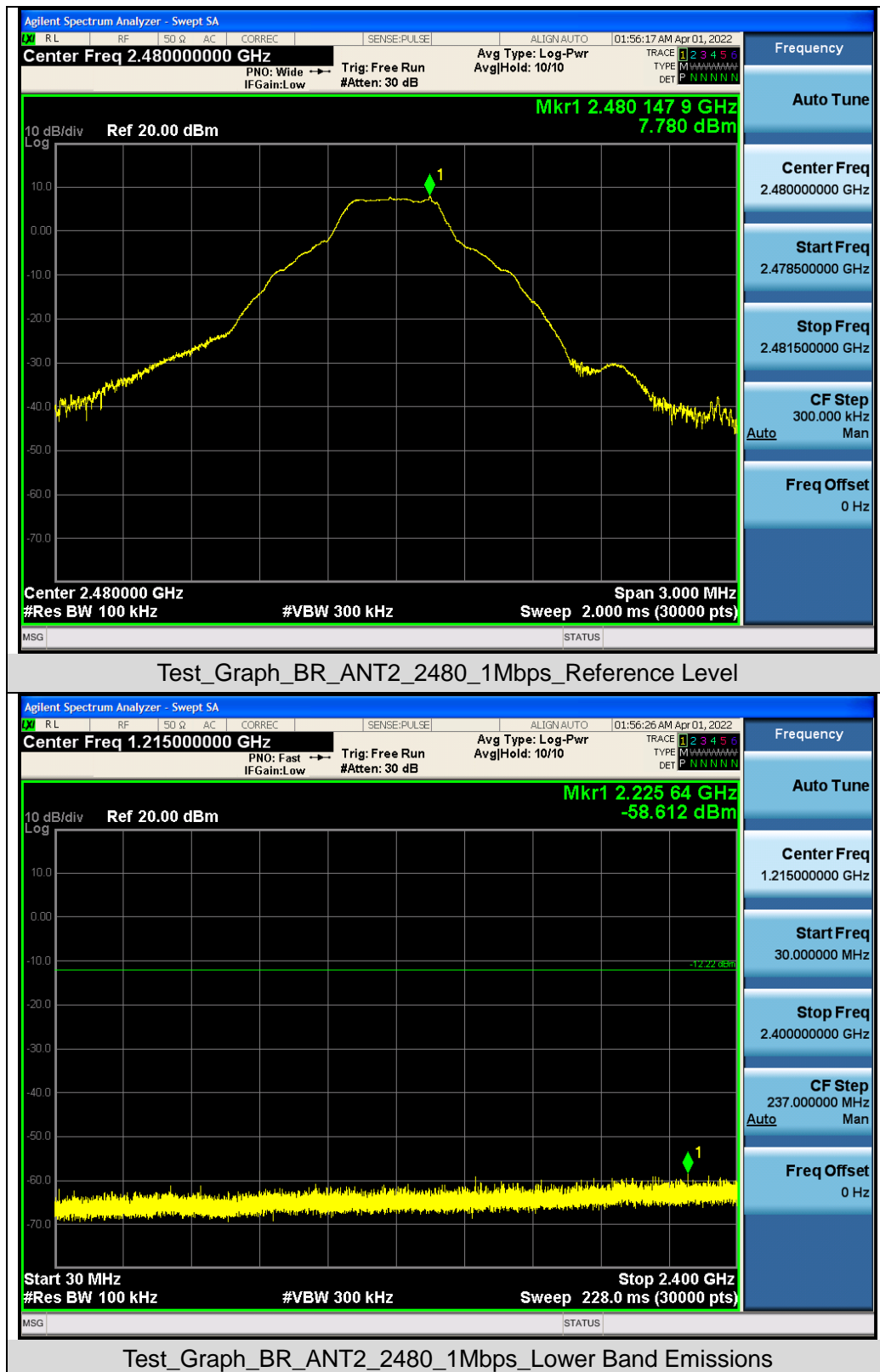
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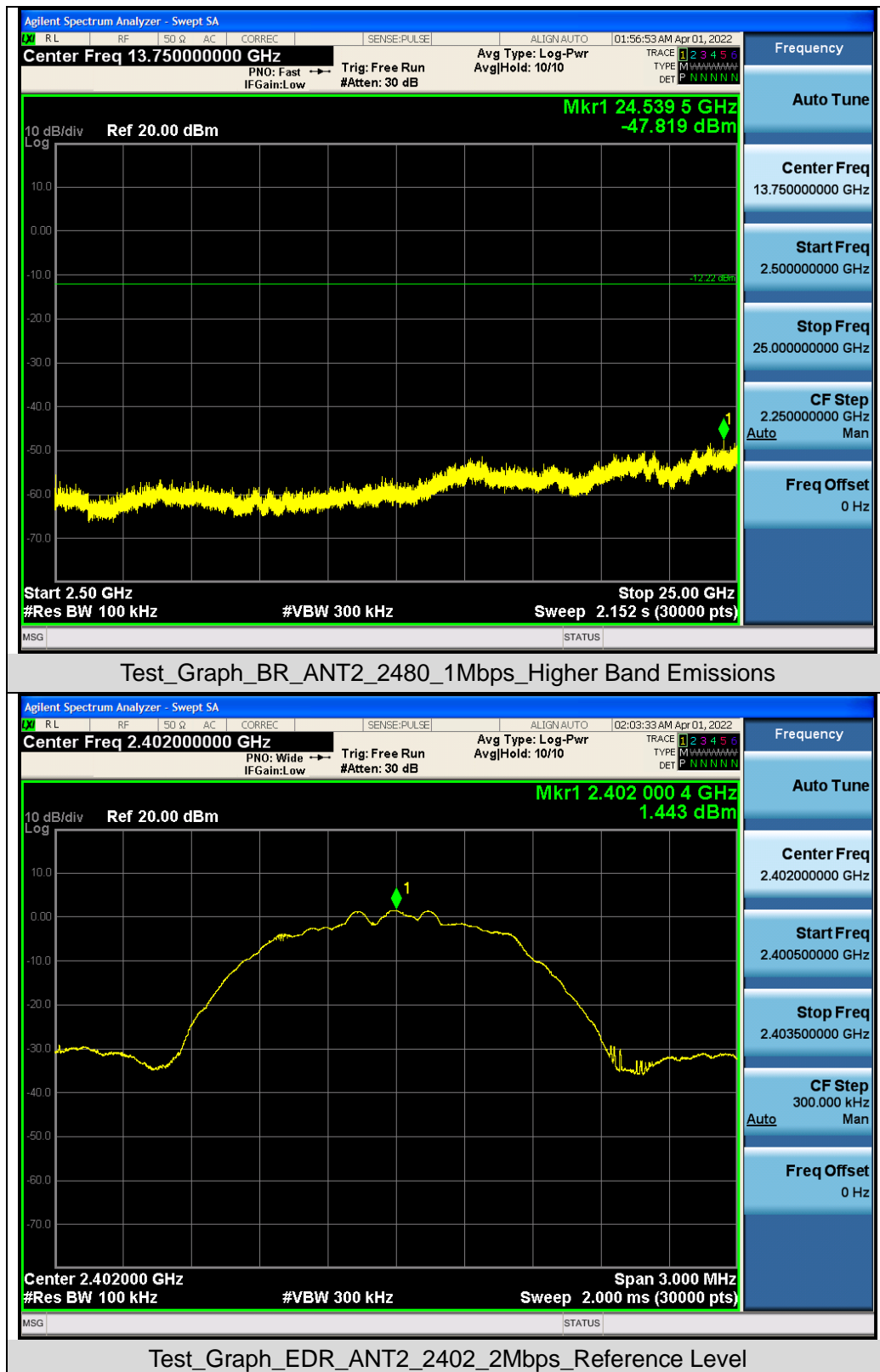


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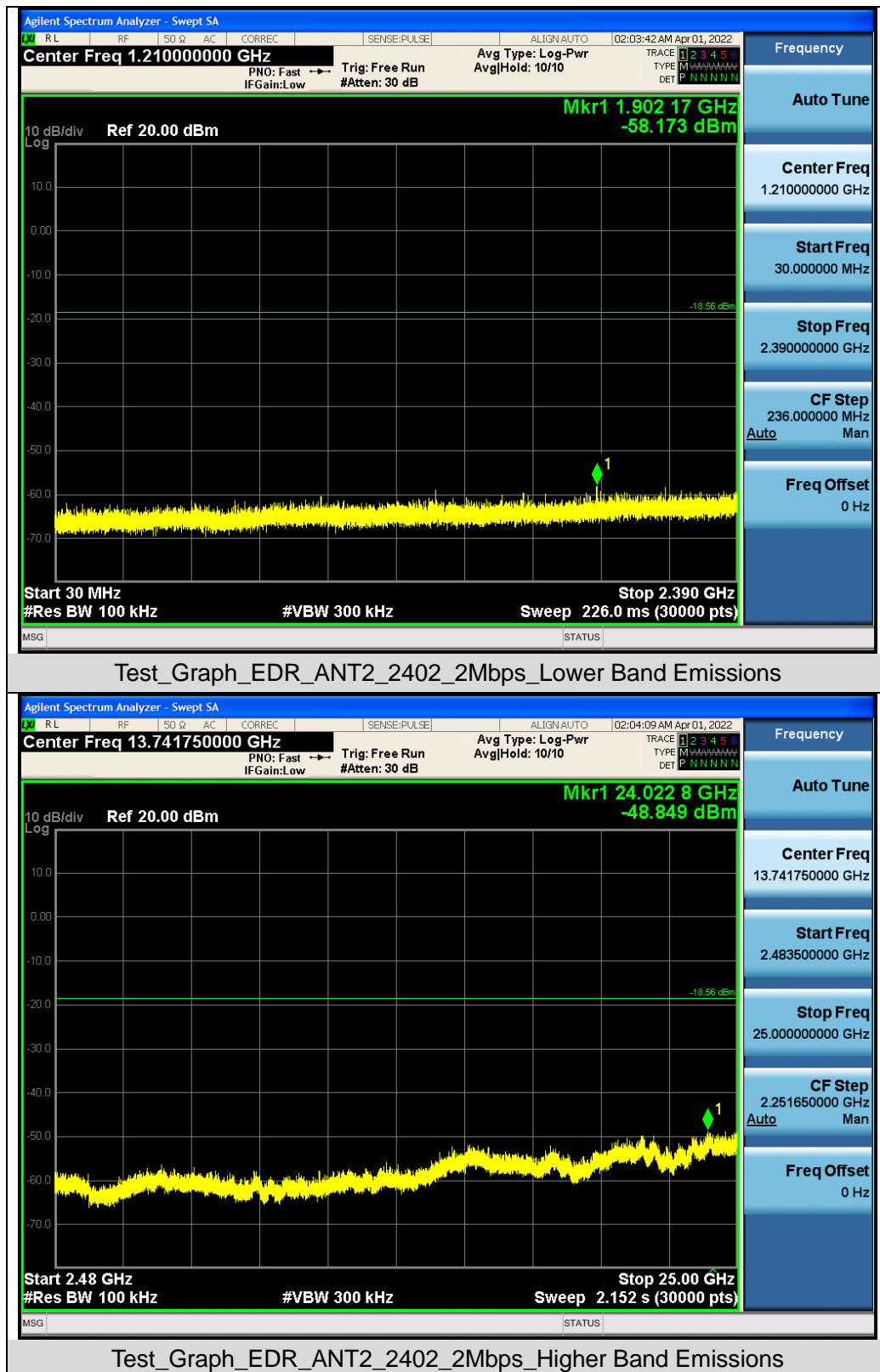




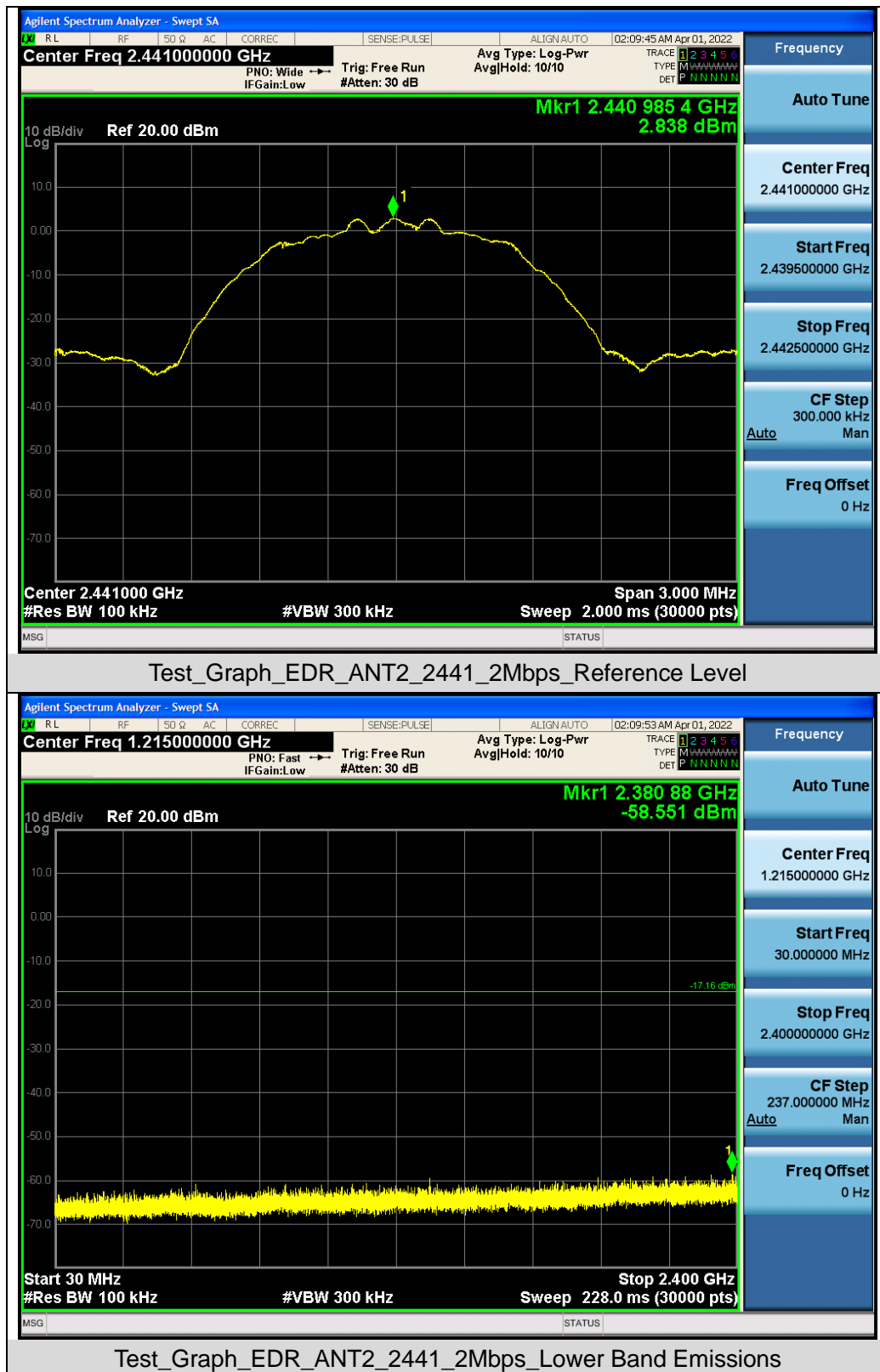
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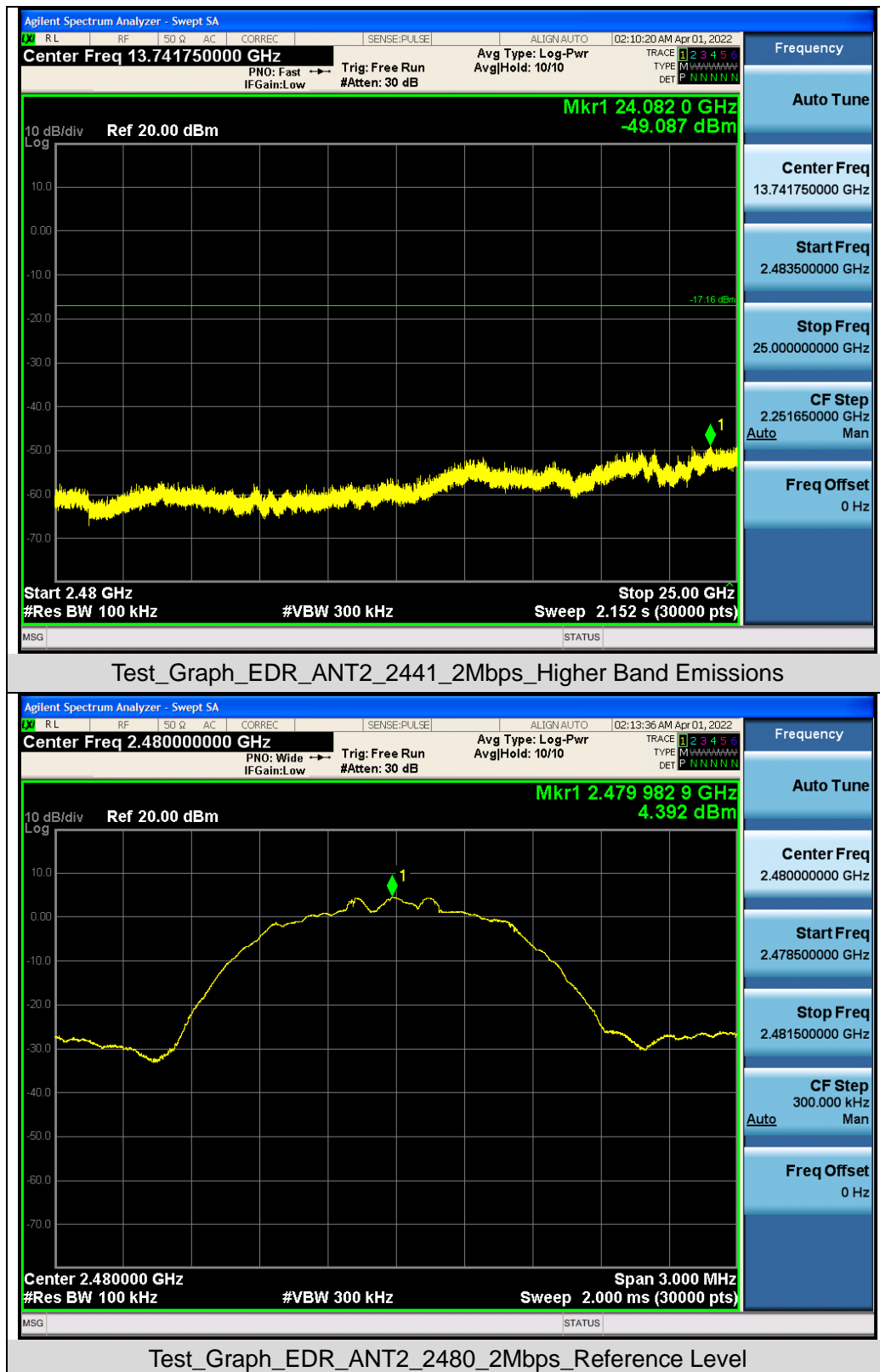
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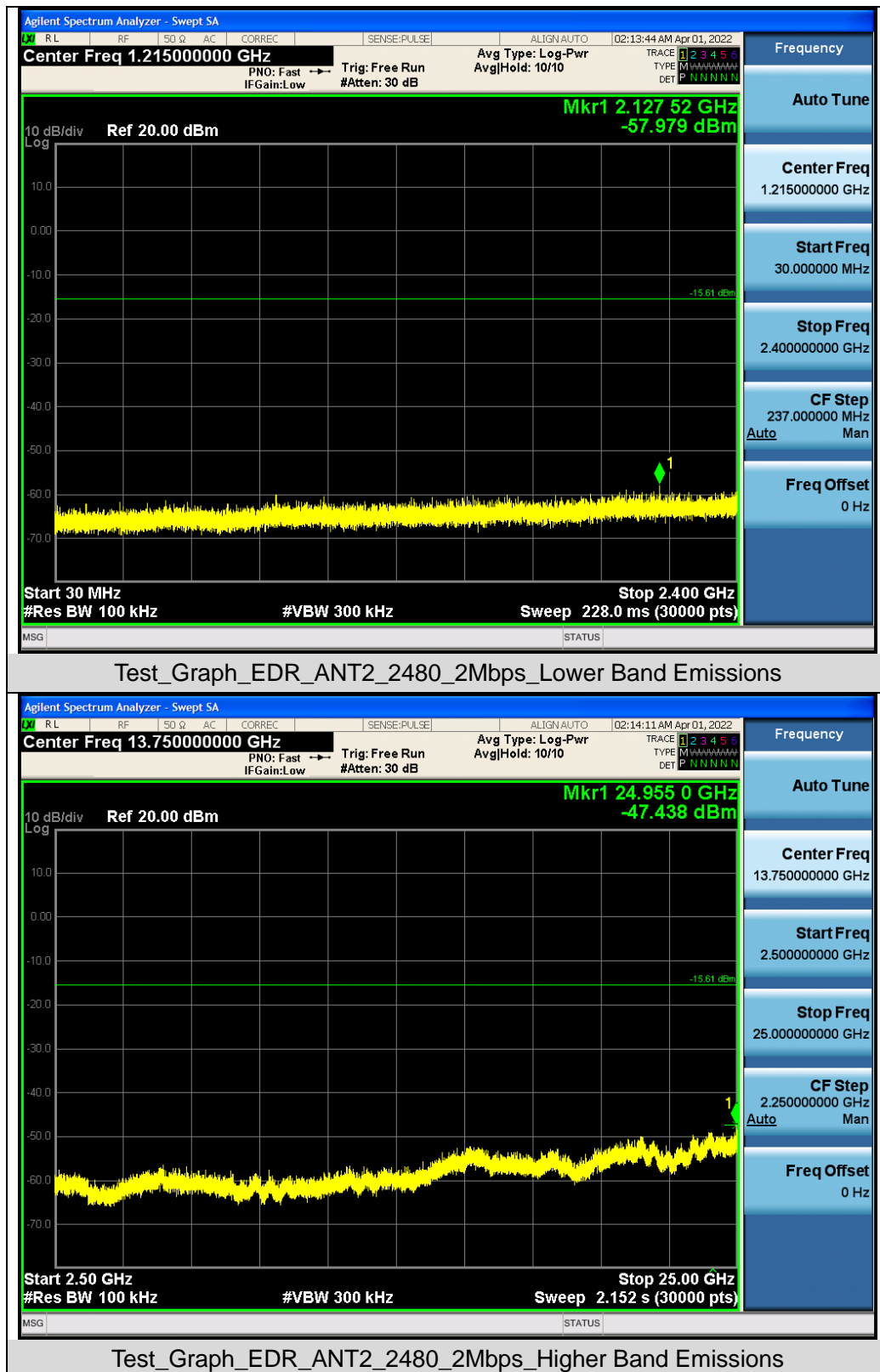
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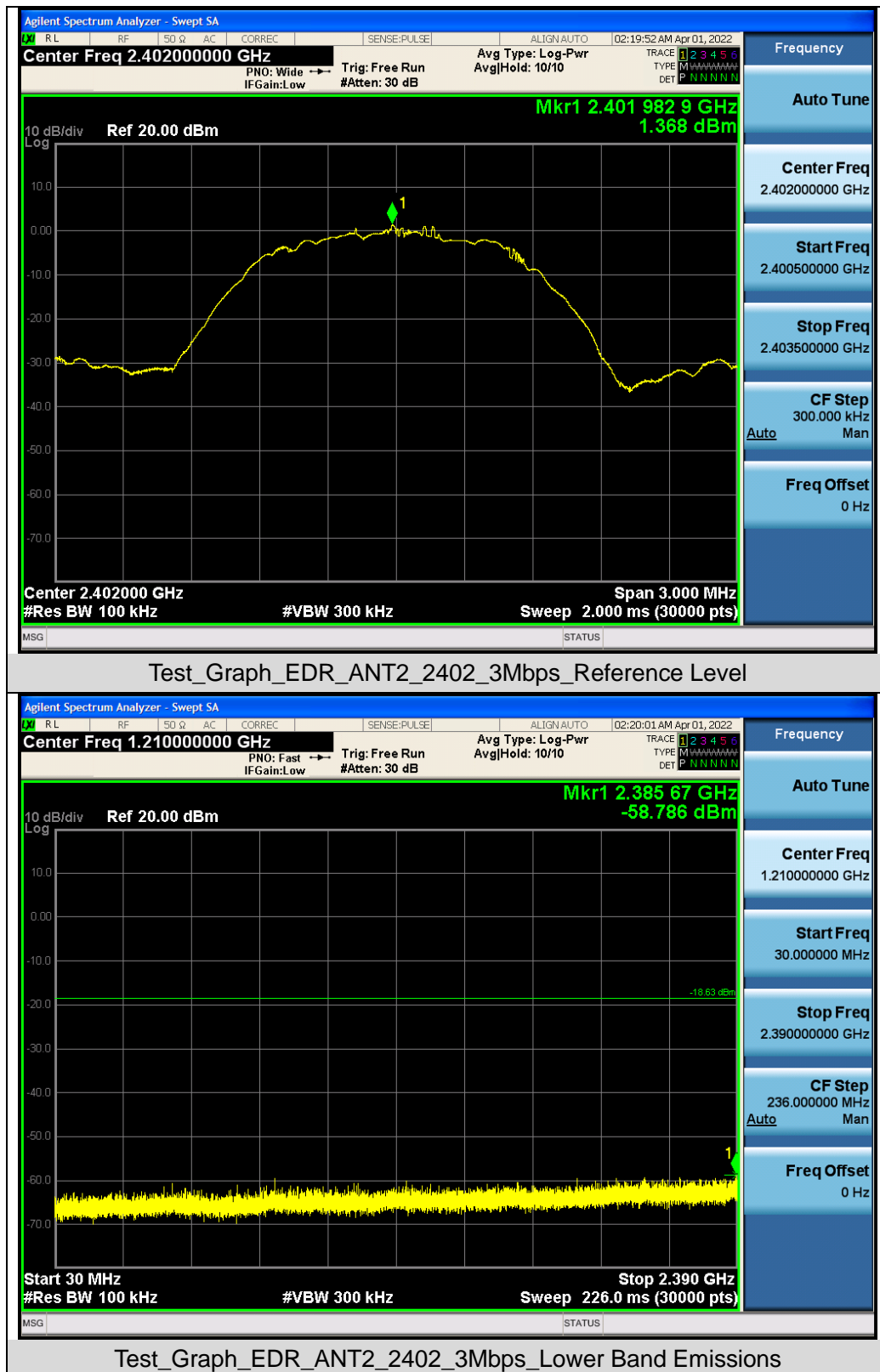


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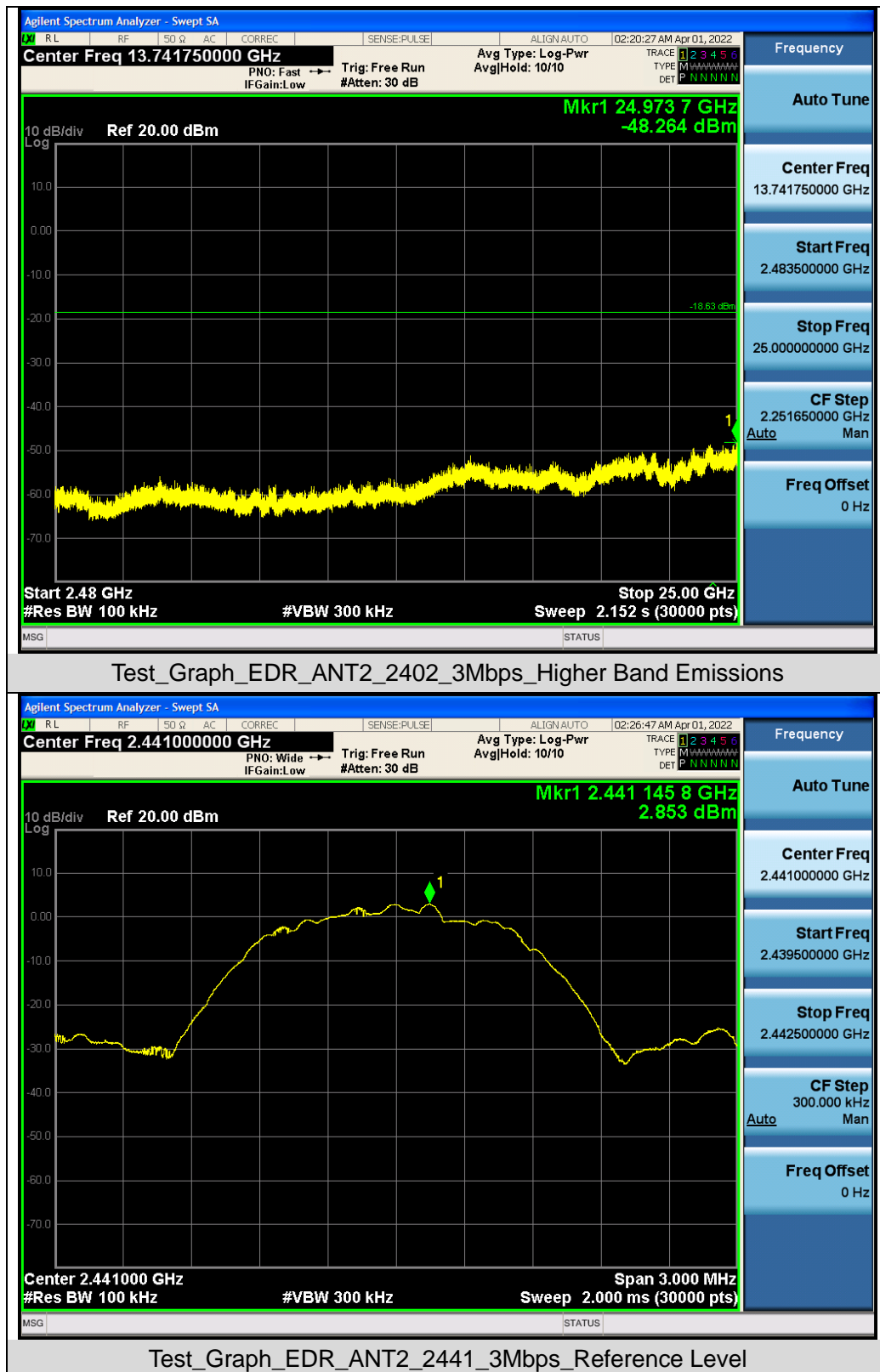


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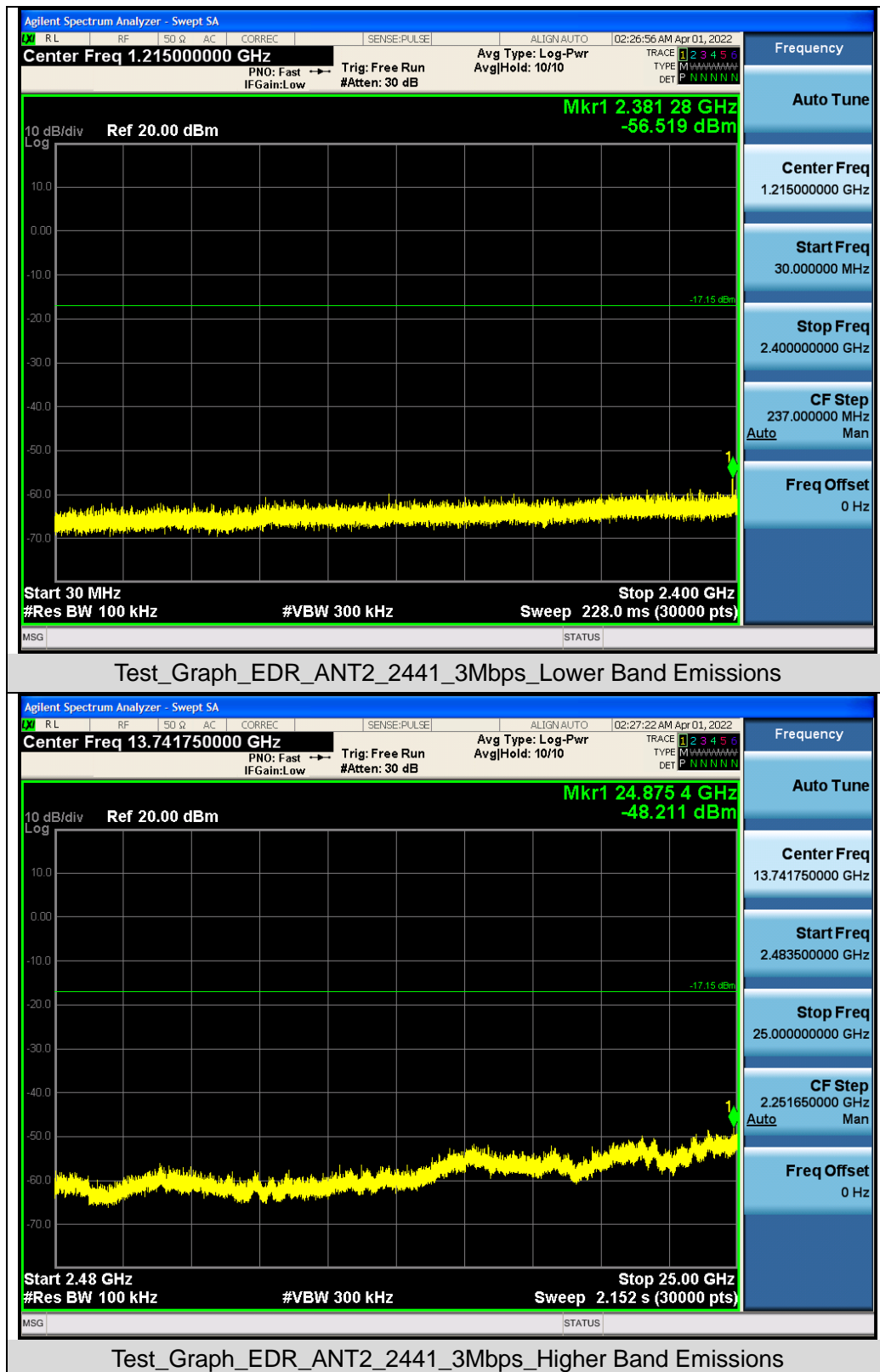




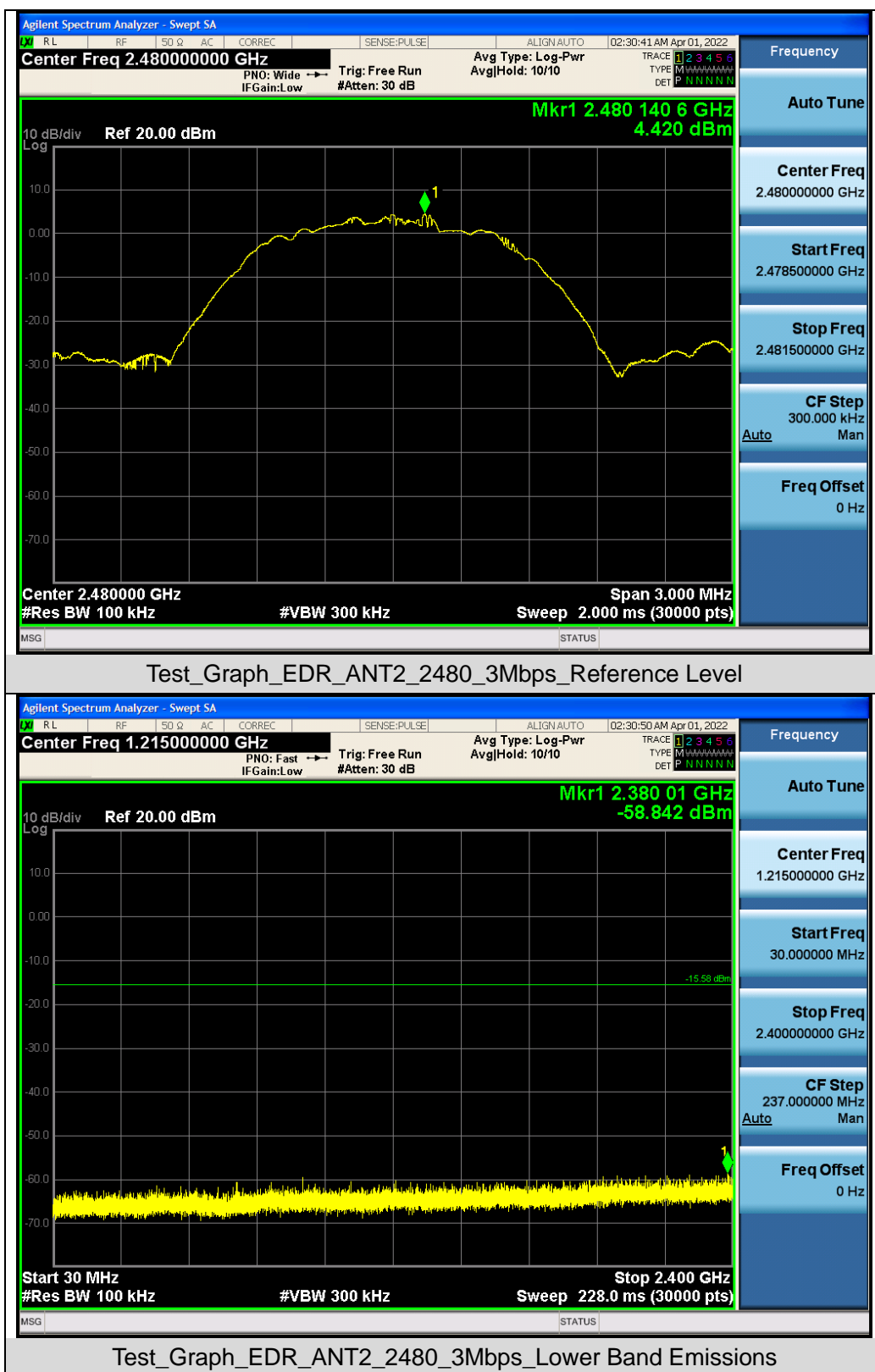
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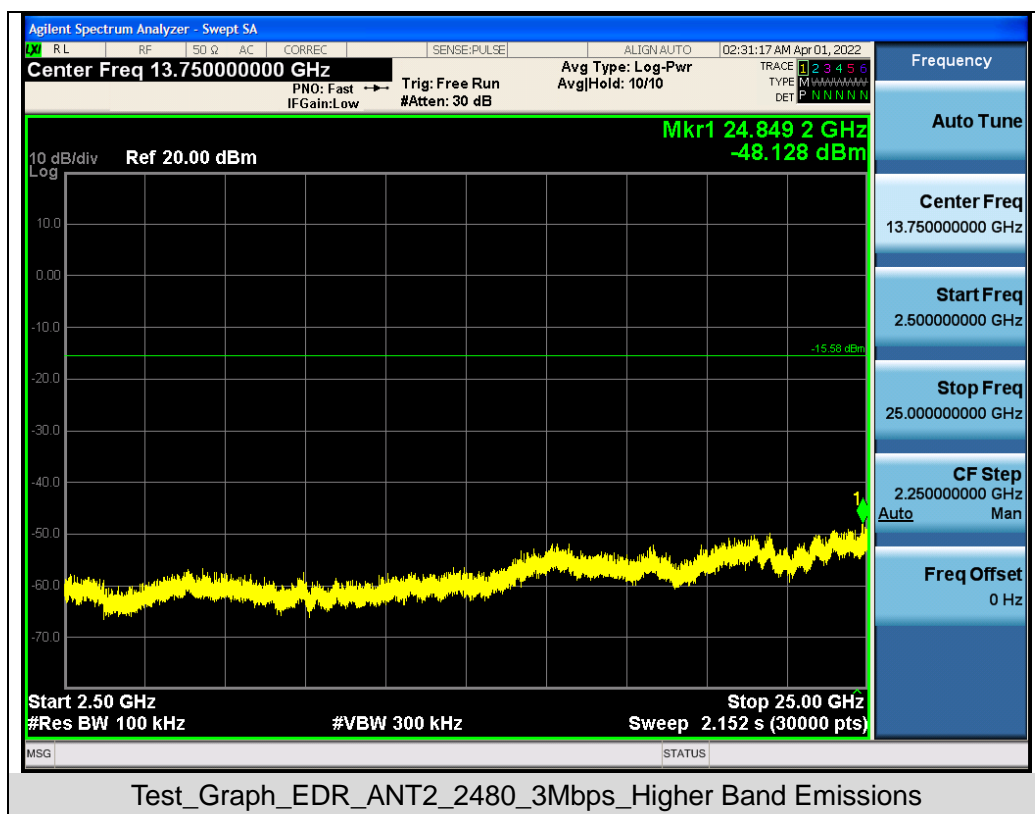
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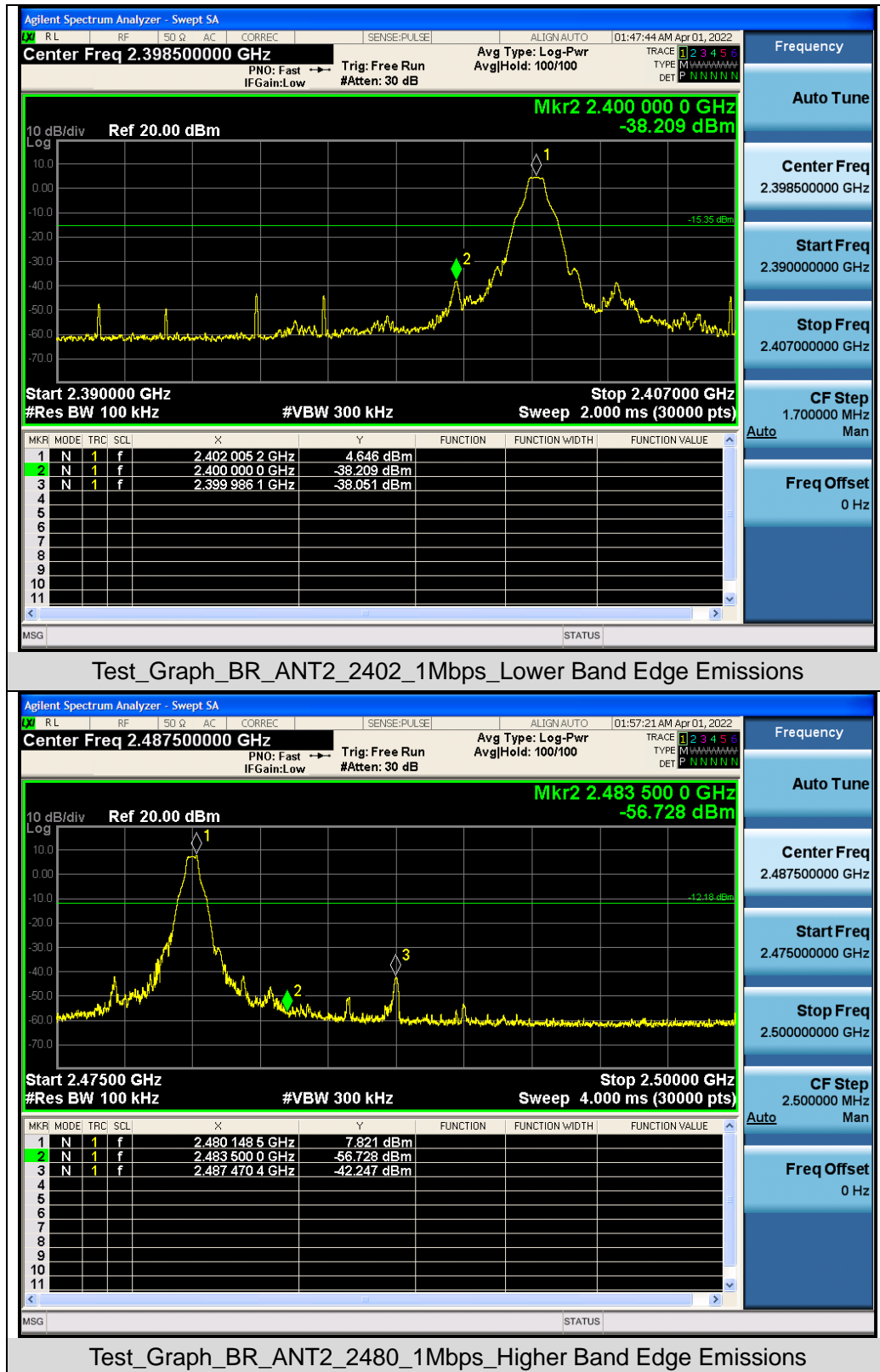
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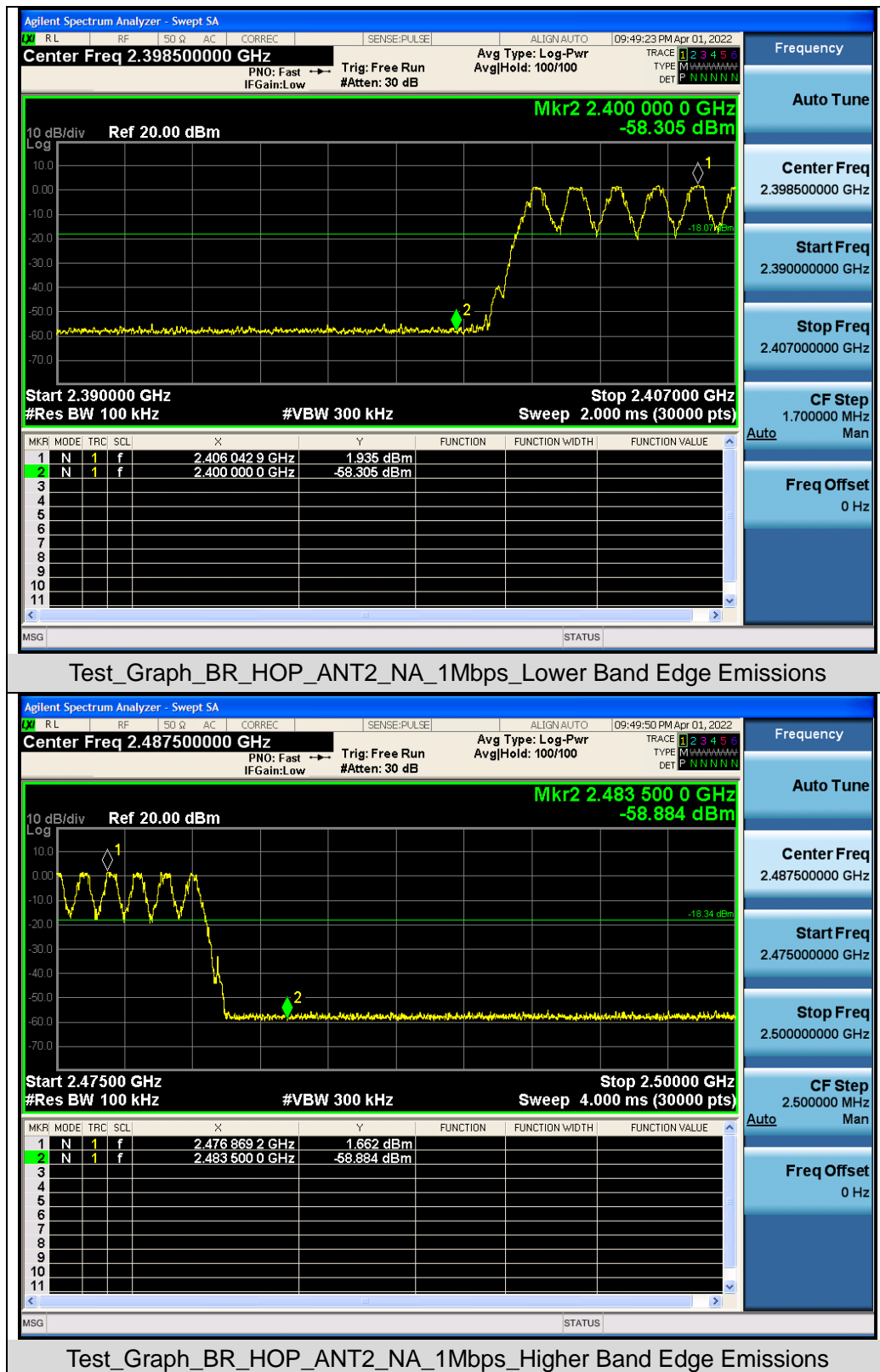
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### Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



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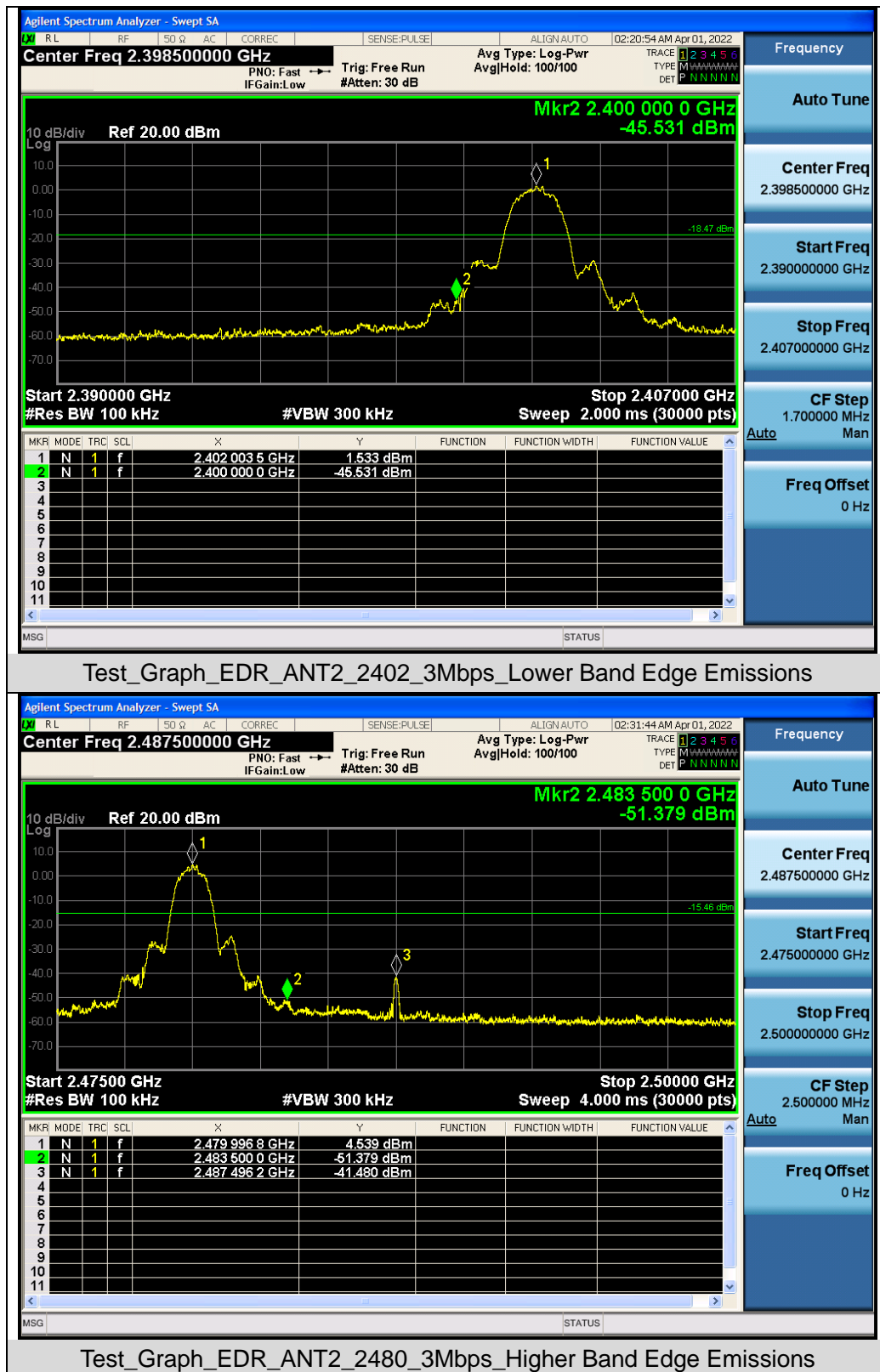
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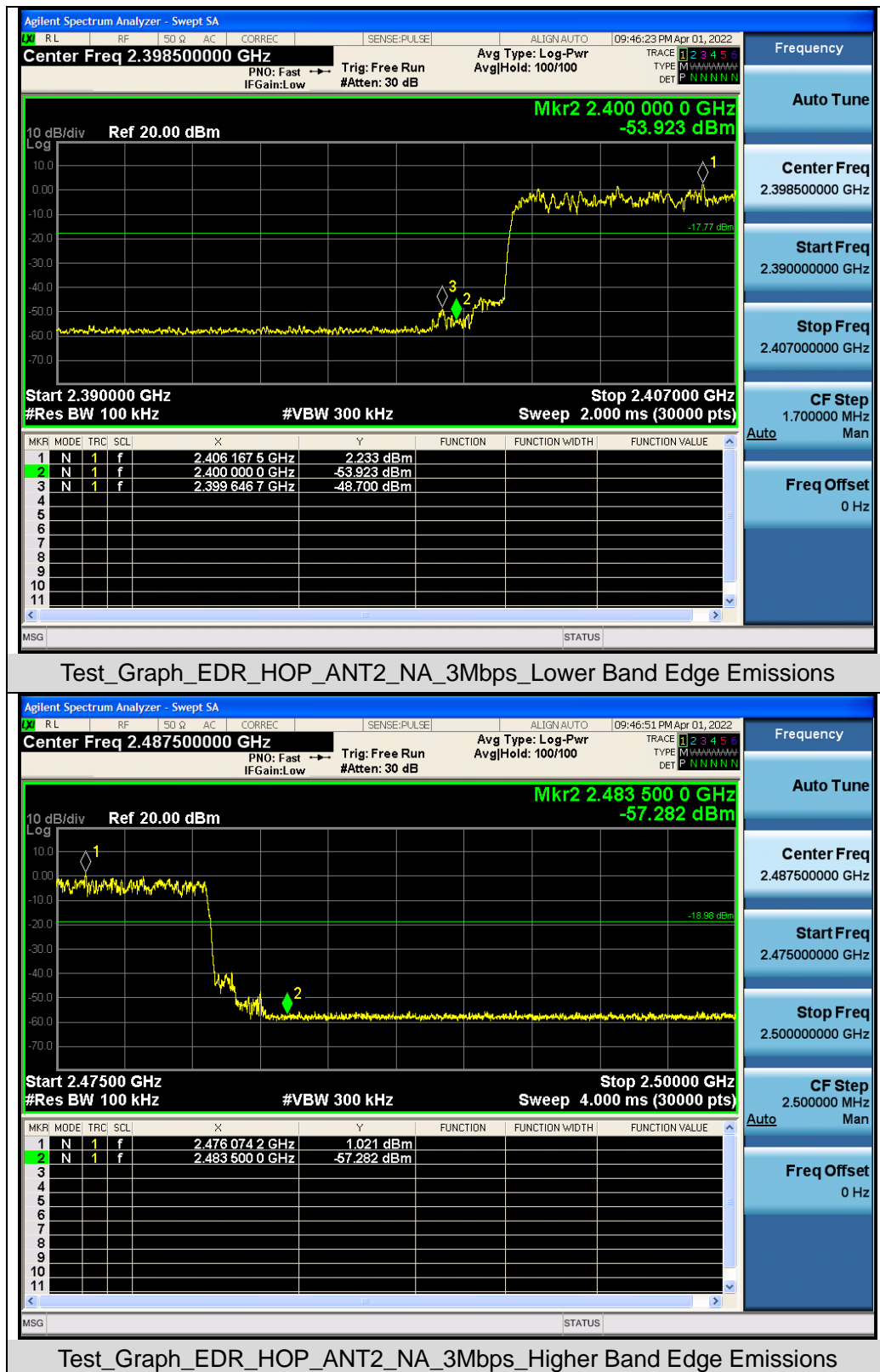
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## 10. RADIATED EMISSION

### 10.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.



The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter    | Setting   |
|-----------------------|---|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP                               |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP                               |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP                            |
| Start ~Stop Frequency | 1GHz~26.5GHz<br>1MHz/3MHz for Peak, 1MHz/3MHz for Average |

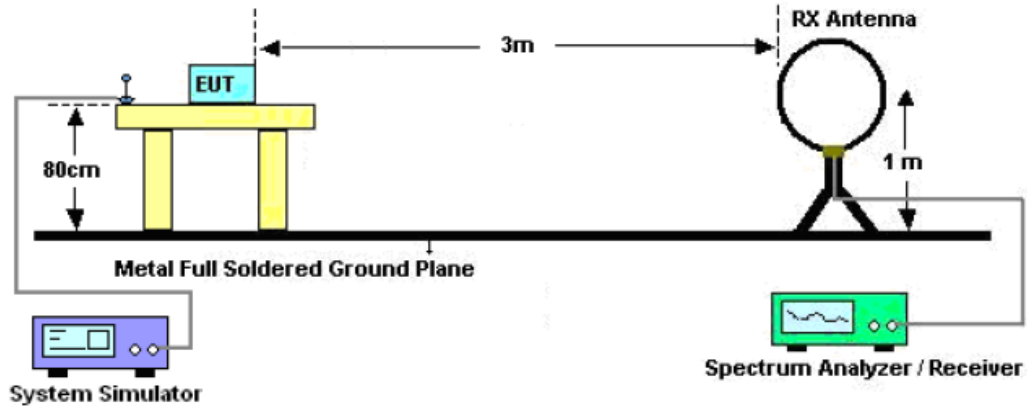
| Receiver Parameter    | Setting                        |
|-----------------------|--------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP    |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP    |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |

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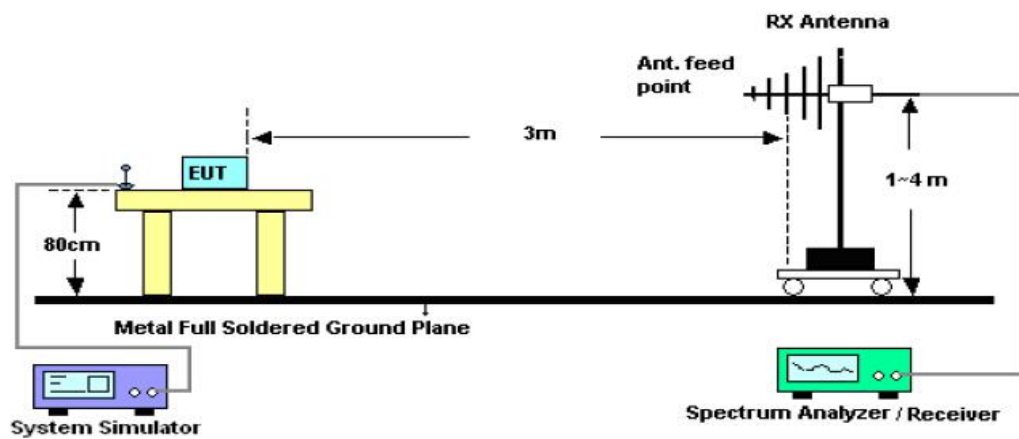
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## 10.2. TEST SETUP

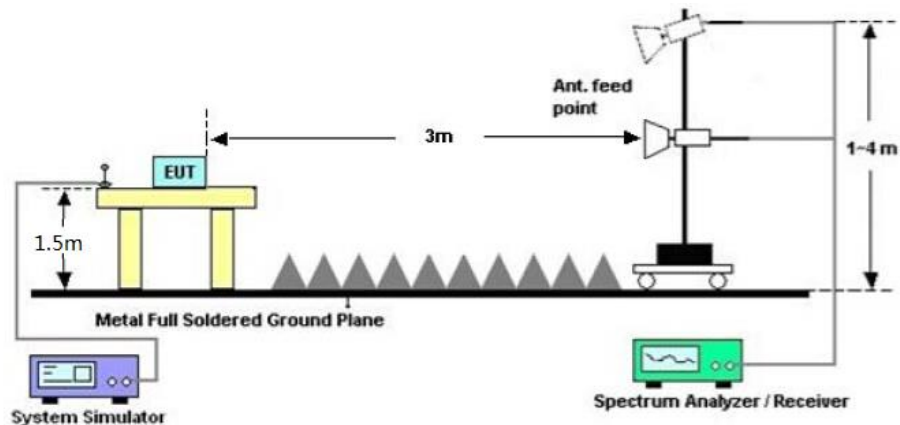
### Radiated Emission Test-Setup Frequency Below 30MHz



### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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### 10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

| Frequencies<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(kHz)                          | 300                              |
| 0.490~1.705          | 24000/F(kHz)                         | 30                               |
| 1.705~30.0           | 30                                   | 30                               |
| 30~88                | 100                                  | 3                                |
| 88~216               | 150                                  | 3                                |
| 216~960              | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

### 10.4. TEST RESULT

#### Radiated emission below 30MHz

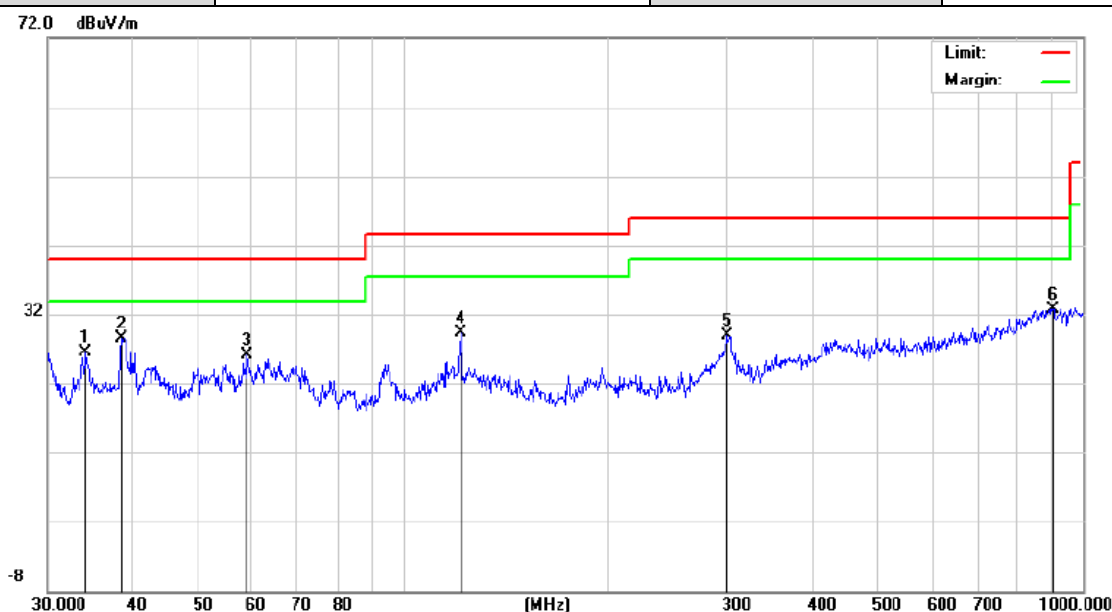
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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### Radiated emission from 30MHz to 1000MHz

|             |         |                   |                |
|-------------|---------|-------------------|----------------|
| EUT         | Mini PC | Model Name        | GM11i7T        |
| Temperature | 25°C    | Relative Humidity | 55.4%          |
| Pressure    | 960hPa  | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 3  | Antenna           | Horizontal     |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 34.1561      | 13.15                    | 13.29                   | 26.44                      | 40.00           | -13.56     | peak     |
| 2   | *   | 38.4808      | 13.22                    | 15.25                   | 28.47                      | 40.00           | -11.53     | peak     |
| 3   |     | 59.0251      | 8.88                     | 17.21                   | 26.09                      | 40.00           | -13.91     | peak     |
| 4   |     | 121.5485     | 10.30                    | 18.94                   | 29.24                      | 43.50           | -14.26     | peak     |
| 5   |     | 300.3672     | 4.41                     | 24.44                   | 28.85                      | 46.00           | -17.15     | peak     |
| 6   |     | 903.3093     | 3.88                     | 28.87                   | 32.75                      | 46.00           | -13.25     | peak     |

**RESULT: PASS**

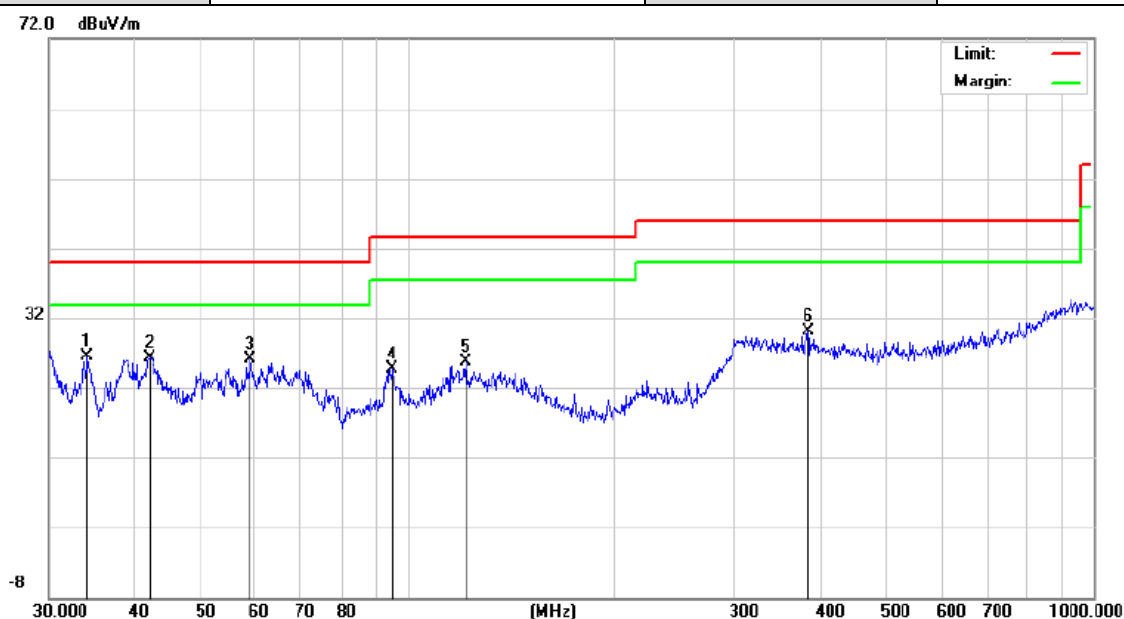
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|             |         |                   |                |
|-------------|---------|-------------------|----------------|
| EUT         | Mini PC | Model Name        | GM11i7T        |
| Temperature | 25°C    | Relative Humidity | 55.4%          |
| Pressure    | 960hPa  | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 3  | Antenna           | Vertical       |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   | *   | 34.1561      | 13.15                    | 13.29                   | 26.44                      | 40.00           | -13.56     | peak     |
| 2   |     | 42.1542      | 10.43                    | 15.80                   | 26.23                      | 40.00           | -13.77     | peak     |
| 3   |     | 59.0251      | 8.88                     | 17.21                   | 26.09                      | 40.00           | -13.91     | peak     |
| 4   |     | 94.7601      | 8.92                     | 15.83                   | 24.75                      | 43.50           | -18.75     | peak     |
| 5   |     | 121.5486     | 6.80                     | 18.94                   | 25.74                      | 43.50           | -17.76     | peak     |
| 6   |     | 383.9318     | 6.28                     | 23.80                   | 30.08                      | 46.00           | -15.92     | peak     |

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### Radiated emission above 1GHz

|                    |         |                          |                |
|--------------------|---------|--------------------------|----------------|
| <b>EUT</b>         | Mini PC | <b>Model Name</b>        | GM11i7T        |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 55.4%          |
| <b>Pressure</b>    | 960hPa  | <b>Test Voltage</b>      | Normal Voltage |
| <b>Test Mode</b>   | Mode 1  | <b>Antenna</b>           | Horizontal     |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4804.000           | 51.35                   | 0.08           | 51.43                      | 74.00              | -22.57         | peak       |
| 4804.000           | 43.33                   | 0.08           | 43.41                      | 54.00              | -10.59         | AVG        |
| 7206.000           | 49.17                   | 2.21           | 51.38                      | 74.00              | -22.62         | peak       |
| 7206.000           | 41.05                   | 2.21           | 43.26                      | 54.00              | -10.74         | AVG        |
|                    |                         |                |                            |                    |                |            |
|                    |                         |                |                            |                    |                |            |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

|                    |         |                          |                |
|--------------------|---------|--------------------------|----------------|
| <b>EUT</b>         | Mini PC | <b>Model Name</b>        | GM11i7T        |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 55.4%          |
| <b>Pressure</b>    | 960hPa  | <b>Test Voltage</b>      | Normal Voltage |
| <b>Test Mode</b>   | Mode 1  | <b>Antenna</b>           | Vertical       |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4804.000           | 50.89                   | 0.08           | 50.97                      | 74.00              | -23.03         | peak       |
| 4804.000           | 41.31                   | 0.08           | 41.39                      | 54.00              | -12.61         | AVG        |
| 7206.000           | 50.22                   | 2.21           | 52.43                      | 74.00              | -21.57         | peak       |
| 7206.000           | 39.58                   | 2.21           | 41.79                      | 54.00              | -12.21         | AVG        |
|                    |                         |                |                            |                    |                |            |
|                    |                         |                |                            |                    |                |            |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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|                    |         |                          |                |
|--------------------|---------|--------------------------|----------------|
| <b>EUT</b>         | Mini PC | <b>Model Name</b>        | GM11i7T        |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 55.4%          |
| <b>Pressure</b>    | 960hPa  | <b>Test Voltage</b>      | Normal Voltage |
| <b>Test Mode</b>   | Mode 2  | <b>Antenna</b>           | Horizontal     |

| Frequency<br>(MHz)                                    | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Value Type |
|---|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4882.000  | 50.27                   | 0.14           | 50.41                      | 74.00              | -23.59         | peak       |
| 4882.000  | 39.12                   | 0.14           | 39.26                      | 54.00              | -14.74         | AVG        |
| 7323.000  | 49.52                   | 2.36           | 51.88                      | 74.00              | -22.12         | peak       |
| 7323.000  | 37.28                   | 2.36           | 39.64                      | 54.00              | -14.36         | AVG        |
|   |                         |                |                            |                    |                |            |
|   |                         |                |                            |                    |                |            |
| Remark:   |                         |                |                            |                    |                |            |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |            |

|                    |         |                          |                |
|--------------------|---------|--------------------------|----------------|
| <b>EUT</b>         | Mini PC | <b>Model Name</b>        | GM11i7T        |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 55.4%          |
| <b>Pressure</b>    | 960hPa  | <b>Test Voltage</b>      | Normal Voltage |
| <b>Test Mode</b>   | Mode 2  | <b>Antenna</b>           | Vertical       |

| Frequency<br>(MHz)                                    | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Value Type |
|---|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4882.000  | 49.37                   | 0.14           | 49.51                      | 74.00              | -24.49         | peak       |
| 4882.000  | 38.37                   | 0.14           | 38.51                      | 54.00              | -15.49         | AVG        |
| 7323.000  | 48.24                   | 2.36           | 50.60                      | 74.00              | -23.40         | peak       |
| 7323.000  | 38.53                   | 2.36           | 40.89                      | 54.00              | -13.11         | AVG        |
|   |                         |                |                            |                    |                |            |
|   |                         |                |                            |                    |                |            |
| Remark:   |                         |                |                            |                    |                |            |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |            |

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|                    |         |                          |                |
|--------------------|---------|--------------------------|----------------|
| <b>EUT</b>         | Mini PC | <b>Model Name</b>        | GM11i7T        |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 55.4%          |
| <b>Pressure</b>    | 960hPa  | <b>Test Voltage</b>      | Normal Voltage |
| <b>Test Mode</b>   | Mode 3  | <b>Antenna</b>           | Horizontal     |

| Frequency<br>(MHz)                                    | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Value Type |
|---|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4960.000  | 48.37                   | 0.22           | 48.59                      | 74.00              | -25.41         | peak       |
| 4960.000  | 39.12                   | 0.22           | 39.34                      | 54.00              | -14.66         | AVG        |
| 7440.000  | 48.56                   | 2.64           | 51.20                      | 74.00              | -22.80         | peak       |
| 7440.000  | 33.14                   | 2.64           | 35.78                      | 54.00              | -18.22         | AVG        |
|   |                         |                |                            |                    |                |            |
|   |                         |                |                            |                    |                |            |
| Remark:   |                         |                |                            |                    |                |            |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |            |

|                    |         |                          |                |
|--------------------|---------|--------------------------|----------------|
| <b>EUT</b>         | Mini PC | <b>Model Name</b>        | GM11i7T        |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 55.4%          |
| <b>Pressure</b>    | 960hPa  | <b>Test Voltage</b>      | Normal Voltage |
| <b>Test Mode</b>   | Mode 3  | <b>Antenna</b>           | Vertical       |

| Frequency<br>(MHz)                                    | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Value Type |
|---|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4960.000  | 49.51                   | 0.22           | 49.73                      | 74.00              | -24.27         | peak       |
| 4960.000  | 40.21                   | 0.22           | 40.43                      | 54.00              | -13.57         | AVG        |
| 7440.000  | 49.33                   | 2.64           | 51.97                      | 74.00              | -22.03         | peak       |
| 7440.000  | 34.51                   | 2.64           | 37.15                      | 54.00              | -16.85         | AVG        |
|   |                         |                |                            |                    |                |            |
|   |                         |                |                            |                    |                |            |
| Remark:   |                         |                |                            |                    |                |            |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |            |

## RESULT: PASS

### Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

All adapters are tested, All antennas are tested. All test modes had been tested. The Ant 1 GFSK modulation is the worst case and recorded in the report.

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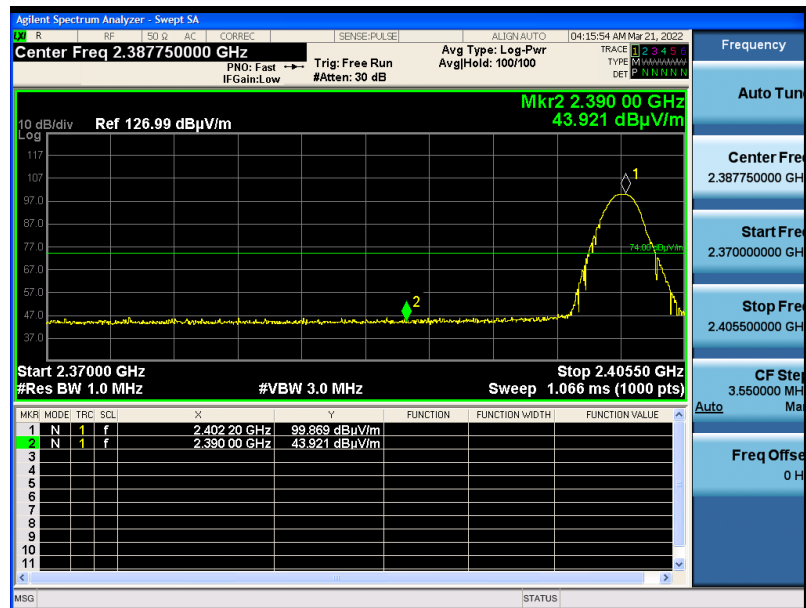
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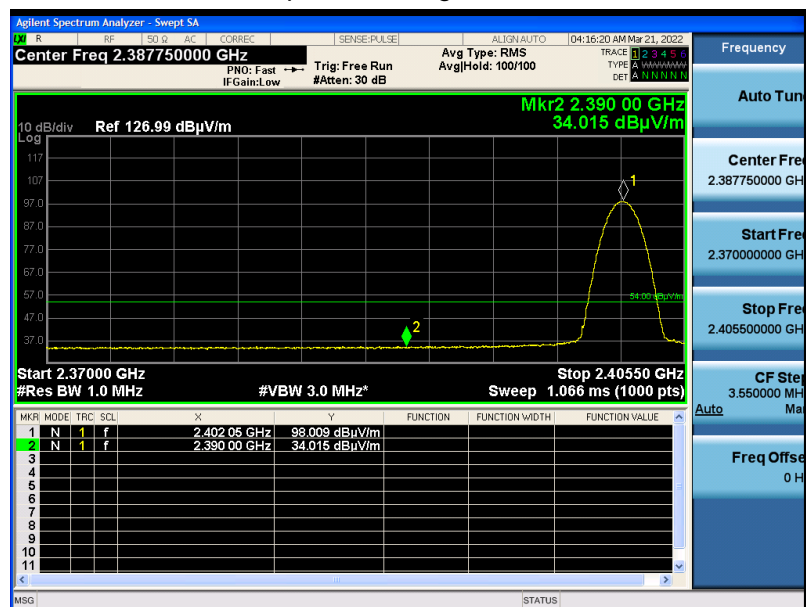
### Test result for band edge emission at restricted bands-Ant 1

|             |         |                   |                |
|-------------|---------|-------------------|----------------|
| EUT         | Mini PC | Model Name        | GM11i7T        |
| Temperature | 25°C    | Relative Humidity | 55.4%          |
| Pressure    | 960hPa  | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 1  | Antenna           | Horizontal     |

### Test Graph for Peak Measurement



### Test Graph for Average Measurement



**RESULT: PASS**

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