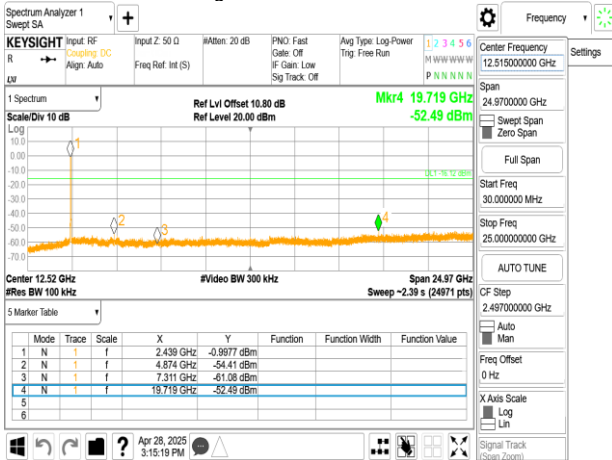
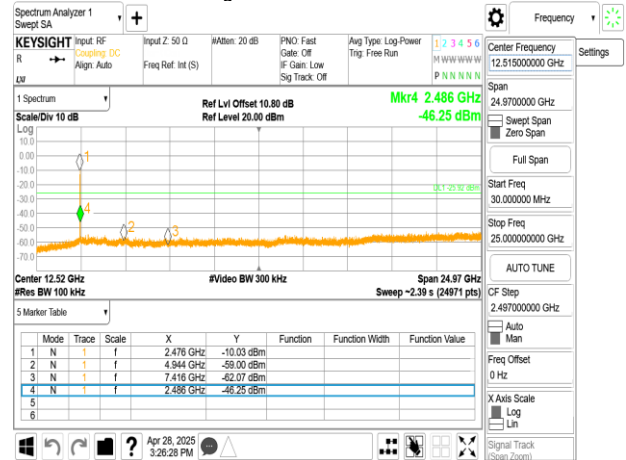


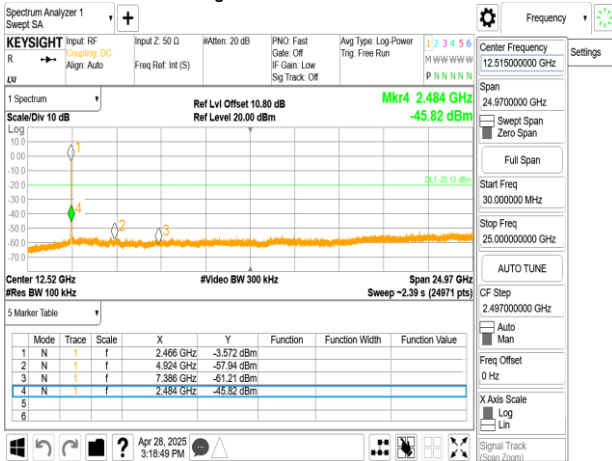
802.11g\_20MHz\_Chain0\_2437MHz



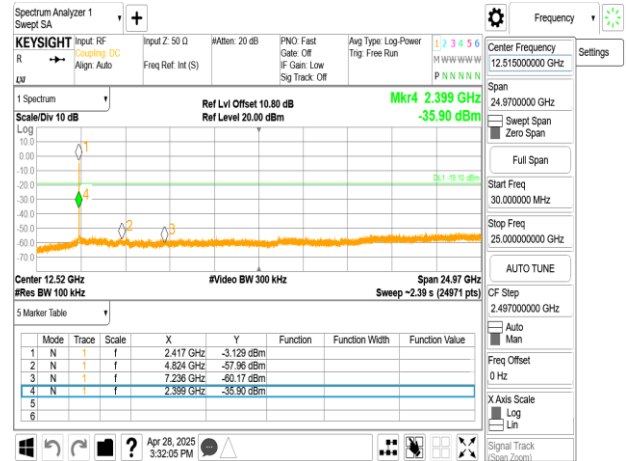
802.11g\_20MHz\_Chain0\_2472MHz



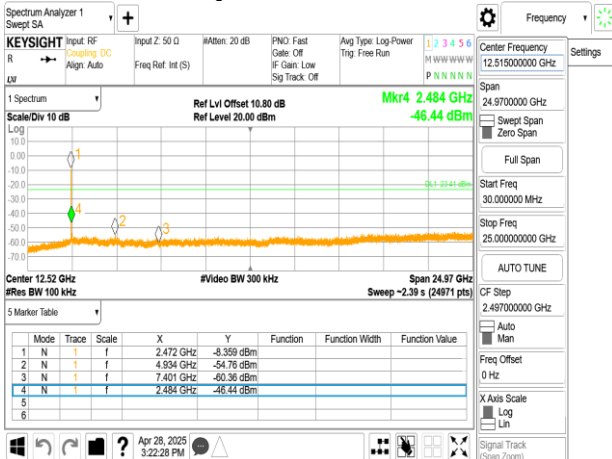
802.11g\_20MHz\_Chain0\_2462MHz



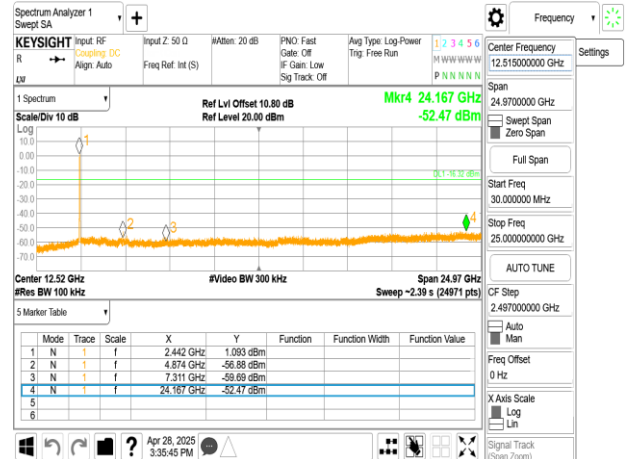
802.11n\_20MHz\_Chain0\_2412MHz



802.11g\_20MHz\_Chain0\_2467MHz



802.11n\_20MHz\_Chain0\_2437MHz

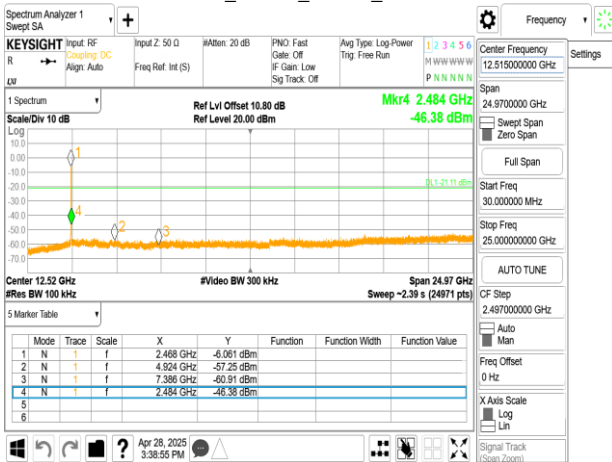


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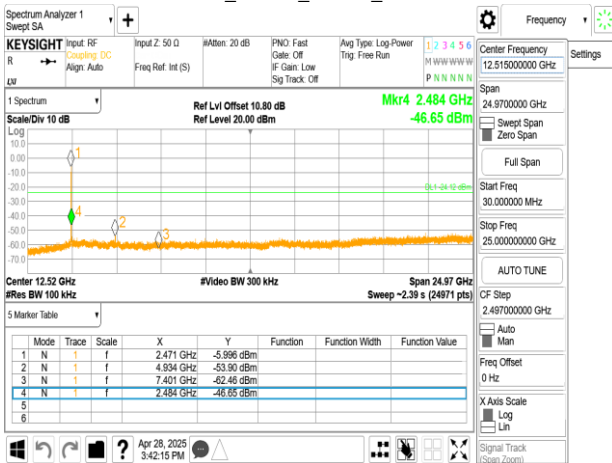
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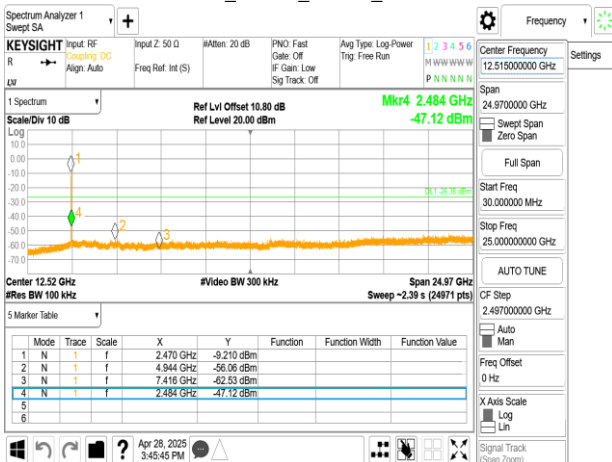
802.11n\_20MHz\_Chain0\_2462MHz



802.11n\_20MHz\_Chain0\_2467MHz



802.11n\_20MHz\_Chain0\_2472MHz



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## 11 BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

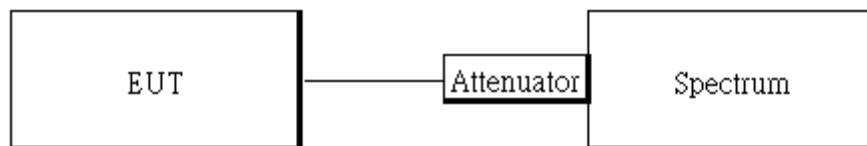
And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300               |
| 0.490-1.705     | 24000/F(kHz)                      | 30                |
| 1.705-30        | 30                                | 30                |
| 30-88           | 100                               | 3                 |
| 88-216          | 150                               | 3                 |
| 216-960         | 200                               | 3                 |
| Above 960       | 500                               | 3                 |

**Note:**

1. The lower limit shall apply at the transition frequencies.

### 11.2 Bandedge & Emission



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SGS Taiwan Ltd.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

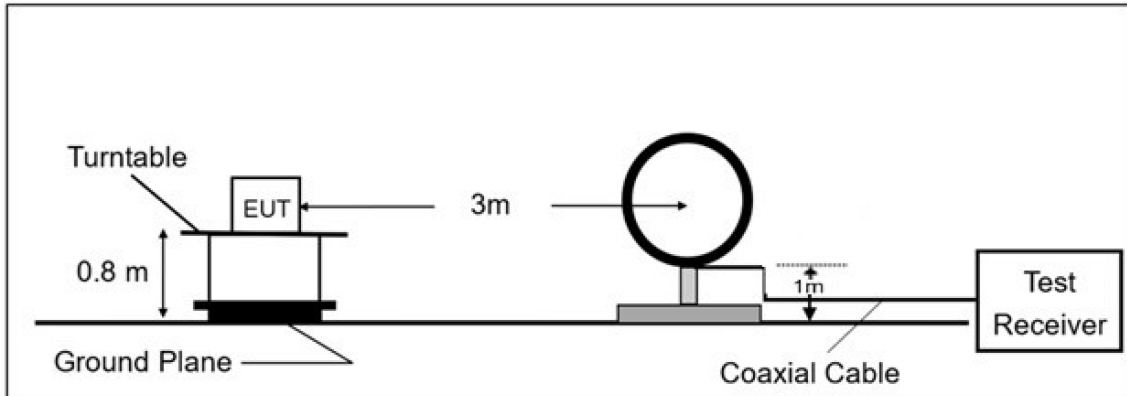
f (886-2) 2298-0488

[www.sgs.com.tw](http://www.sgs.com.tw)

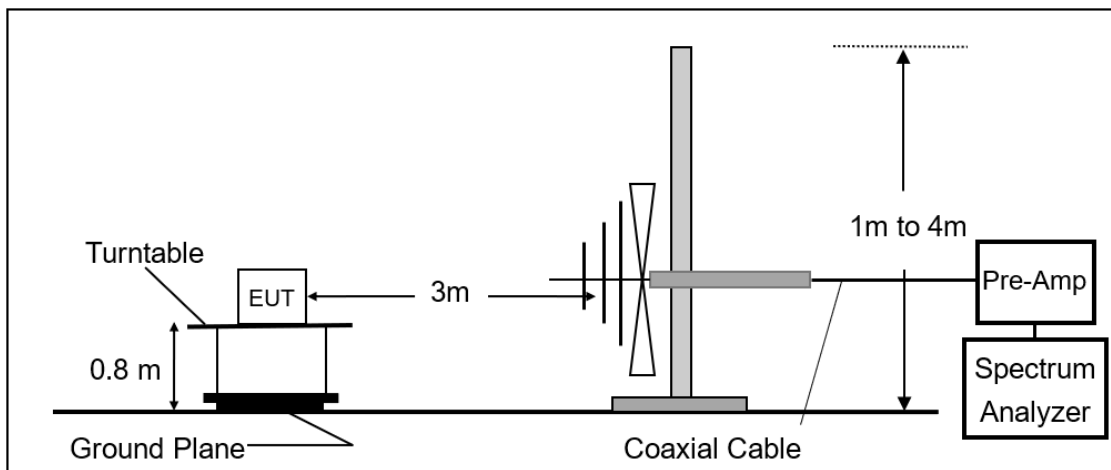
Member of SGS Group

## 11.3 Spurious Emission

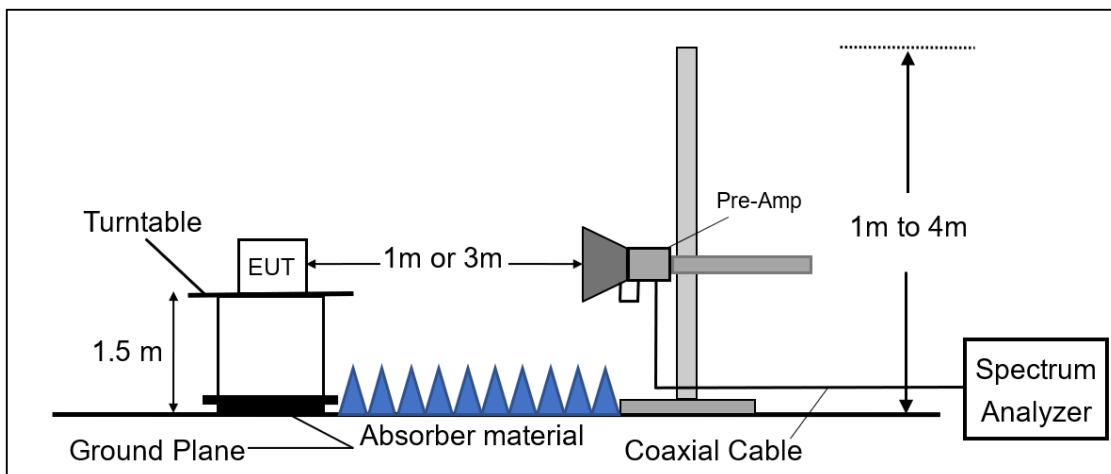
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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## 11.4 Measurement Procedure

### 11.4.1 Band edge measurements

1. The testing follows FCC KDB 558074 D01.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
3. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector = Peak for Maximum Emission Measurements at frequency above 1 GHz, Sweep time = No faster than coupled (auto) time, Trace mode = max-hold, Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time and number of sweep points may be lengthened for low duty cycle applications.)
4. Set the spectrum analyzer as RBW=100 KHz, VBW=300KHz, Detector = RMS for Maximum Emission Measurements at frequency above 1 GHz, Sweep time = AUTO
5. Compute the power by integrating the spectrum over 1 MHz using the instrument's band-power measurement function with band limits set equal to the emission frequency (femission)  $\pm 0.5$  MHz. If the spectrum analyzer does not have a band-power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission  $\pm 0.5$  MHz.
6. A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle.

### 11.4.2 Spurious Emission measurements

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW  $\geq 1/T$  (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT

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measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

### 11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS = Field Strength*

*CL = Cable Attenuation Factor (Cable Loss)*

*RA = Reading Amplitude*

*AG = Amplifier Gain*

*AF = Antenna Factor*

*The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$*

*Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

### 11.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

### 11.7 Measurement Result

#### Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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## 11.7.1 CBE

## 802.11b

| Channel | Frequency (MHz) | Raw Value(dBm) | Duty factor (dB) | Antenna Peak Gain (dBi) | EIRP (dBm) | Emission Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) |    |
|---------|-----------------|----------------|------------------|-------------------------|------------|-------------------------|-------------|----------------|----|
|         |                 | Chain 0        |                  | Chain 0                 |            |                         |             |                |    |
| 1       | 2412            | -42.620        | N/A              | 3.33                    | -39.29     | 55.91                   | -18.09      | 74             | PK |
|         |                 | -54.135        | 0.00             | 3.33                    | -50.81     | 44.40                   | -9.61       | 54             | AV |
| 11      | 2462            | -38.920        | N/A              | 3.33                    | -35.59     | 59.61                   | -14.39      | 74             | PK |
|         |                 | -50.287        | 0.00             | 3.33                    | -46.96     | 48.24                   | -5.76       | 54             | AV |
| 12      | 2467            | -42.980        | N/A              | 3.33                    | -39.65     | 55.55                   | -18.45      | 74             | PK |
|         |                 | -60.751        | 0.00             | 3.33                    | -57.42     | 37.78                   | -16.22      | 54             | AV |
| 13      | 2472            | -31.150        | N/A              | 3.33                    | -27.82     | 67.38                   | -6.62       | 74             | PK |
|         |                 | -45.625        | 0.00             | 3.33                    | -42.30     | 52.91                   | -1.10       | 54             | AV |

## 802.11g

| Channel | Frequency (MHz) | Raw Value(dBm) | Duty factor (dB) | Antenna Peak Gain (dBi) | EIRP (dBm) | Emission Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) |    |
|---------|-----------------|----------------|------------------|-------------------------|------------|-------------------------|-------------|----------------|----|
|         |                 | Chain 0        |                  | Chain 0                 |            |                         |             |                |    |
| 1       | 2412            | -28.260        | N/A              | 3.33                    | -24.93     | 70.27                   | -3.73       | 74             | PK |
|         |                 | -45.334        | 0.00             | 3.33                    | -42.00     | 53.20                   | -0.80       | 54             | AV |
| 2       | 2417            | -37.750        | N/A              | 3.33                    | -34.42     | 60.78                   | -13.22      | 74             | PK |
|         |                 | -50.366        | 0.00             | 3.33                    | -47.04     | 48.16                   | -5.84       | 54             | AV |
| 10      | 2457            | -33.800        | N/A              | 3.33                    | -30.47     | 64.73                   | -9.27       | 74             | PK |
|         |                 | -47.396        | 0.00             | 3.33                    | -44.07     | 51.13                   | -2.87       | 54             | AV |
| 11      | 2462            | -29.650        | N/A              | 3.33                    | -26.32     | 68.88                   | -5.12       | 74             | PK |
|         |                 | -45.375        | 0.00             | 3.33                    | -42.05     | 53.16                   | -0.84       | 54             | AV |
| 12      | 2467            | -32.890        | N/A              | 3.33                    | -29.56     | 65.64                   | -8.36       | 74             | PK |
|         |                 | -45.835        | 0.00             | 3.33                    | -42.51     | 52.70                   | -1.31       | 54             | AV |
| 13      | 2472            | -32.040        | N/A              | 3.33                    | -28.71     | 66.49                   | -7.51       | 74             | PK |
|         |                 | -45.694        | 0.00             | 3.33                    | -42.36     | 52.84                   | -1.16       | 54             | AV |

## 802.11n 20M

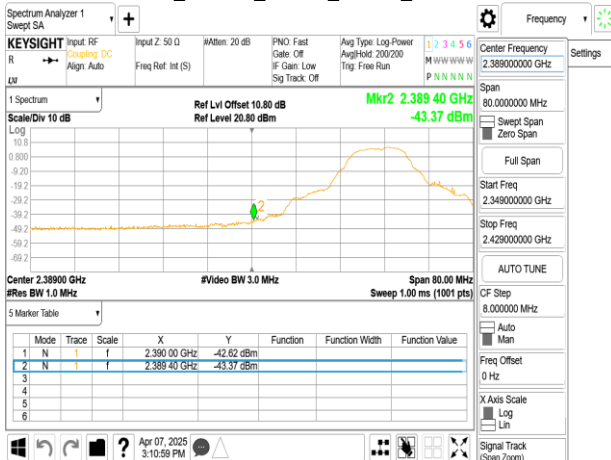
| Channel | Frequency (MHz) | Raw Value(dBm) | Duty factor (dB) | Antenna Peak Gain | EIRP (dBm) | Emission Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) |    |
|---------|-----------------|----------------|------------------|-------------------|------------|-------------------------|-------------|----------------|----|
|         |                 | Chain 0        |                  | Chain 0           |            |                         |             |                |    |
| 1       | 2412            | -31.400        | N/A              | 3.33              | -28.07     | 67.13                   | -6.87       | 74             | PK |
|         |                 | -46.565        | 0.00             | 3.33              | -43.24     | 51.97                   | -2.04       | 54             | AV |
| 2       | 2417            | -36.500        | N/A              | 3.33              | -33.17     | 62.03                   | -11.97      | 74             | PK |
|         |                 | -49.418        | 0.00             | 3.33              | -46.09     | 49.11                   | -4.89       | 54             | AV |
| 9       | 2452            | -29.110        | N/A              | 3.33              | -25.78     | 69.42                   | -4.58       | 74             | PK |
|         |                 | -45.739        | 0.00             | 3.33              | -42.41     | 52.79                   | -1.21       | 54             | AV |
| 10      | 2457            | -31.370        | N/A              | 3.33              | -28.04     | 67.16                   | -6.84       | 74             | PK |
|         |                 | -46.911        | 0.00             | 3.33              | -43.58     | 51.62                   | -2.38       | 54             | AV |
| 11      | 2462            | -31.900        | N/A              | 3.33              | -28.57     | 66.63                   | -7.37       | 74             | PK |
|         |                 | -45.812        | 0.00             | 3.33              | -42.48     | 52.72                   | -1.28       | 54             | AV |
| 12      | 2467            | -33.260        | N/A              | 3.33              | -29.93     | 65.27                   | -8.73       | 74             | PK |
|         |                 | -45.977        | 0.00             | 3.33              | -42.65     | 52.55                   | -1.45       | 54             | AV |
| 13      | 2472            | -32.980        | N/A              | 3.33              | -29.65     | 65.55                   | -8.45       | 74             | PK |
|         |                 | -45.892        | 0.00             | 3.33              | -42.56     | 52.64                   | -1.36       | 54             | AV |

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SISO\_802.11b\_20MHz\_Chain0\_2412MHz



SISO\_802.11b\_20MHz\_Chain0\_2472MHz



SISO\_802.11b\_20MHz\_Chain0\_2462MHz



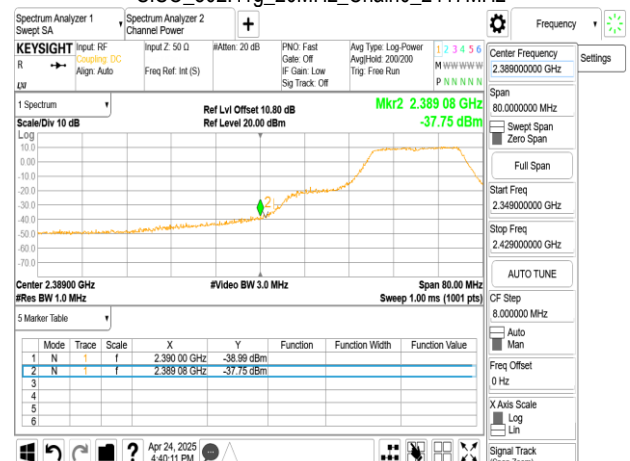
SISO\_802.11g\_20MHz\_Chain0\_2412MHz



SISO\_802.11b\_20MHz\_Chain0\_2467MHz



SISO\_802.11g\_20MHz\_Chain0\_2417MHz



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SISO\_802.11g\_20MHz\_Chain0\_2457MHz



SISO\_802.11g\_20MHz\_Chain0\_2472MHz



SISO\_802.11g\_20MHz\_Chain0\_2462MHz



SISO\_802.11n\_20MHz\_Chain0\_2412MHz



SISO\_802.11g\_20MHz\_Chain0\_2467MHz



SISO\_802.11n\_20MHz\_Chain0\_2417MHz

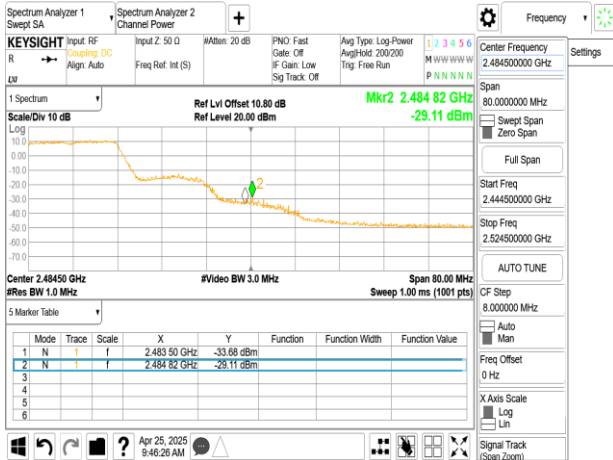


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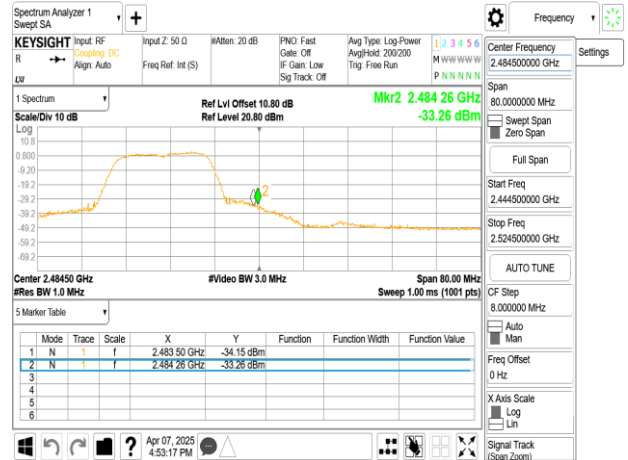
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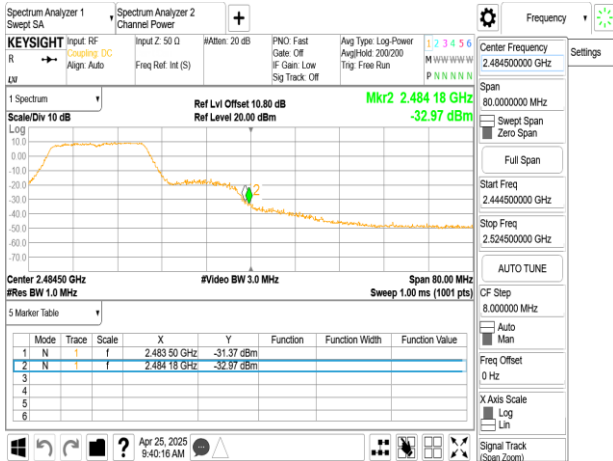
SISO\_802.11n\_20MHz\_Chain0\_2452MHz



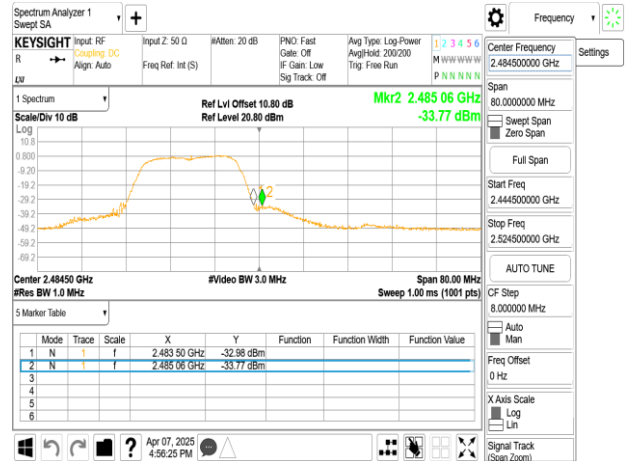
SISO\_802.11n\_20MHz\_Chain0\_2467MHz



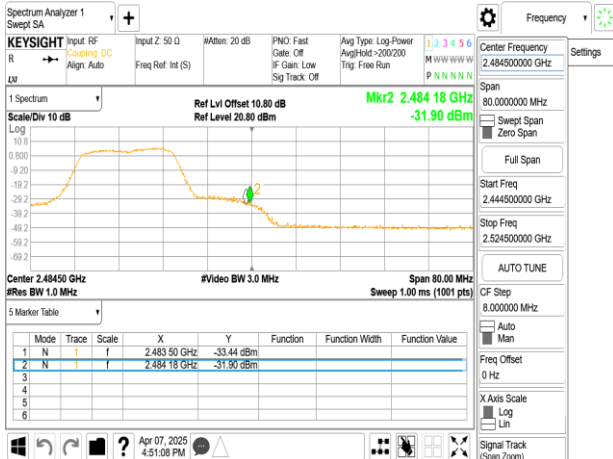
SISO\_802.11n\_20MHz\_Chain0\_2457MHz



SISO\_802.11n\_20MHz\_Chain0\_2472MHz



SISO\_802.11n\_20MHz\_Chain0\_2462MHz



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## Average

SISO\_802.11b\_20MHz\_Chain0\_2412MHz



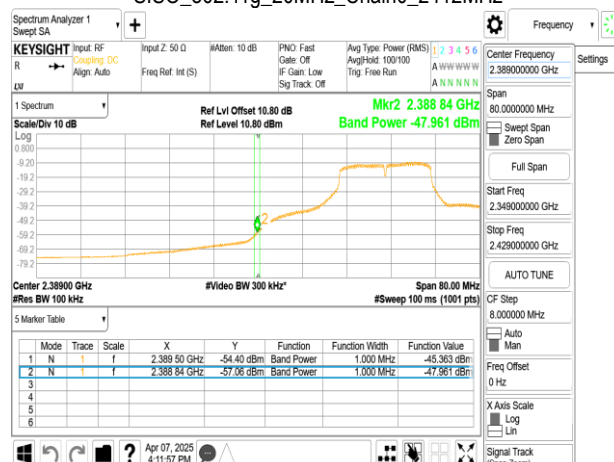
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SISO\_802.11b\_20MHz\_Chain0\_2462MHz



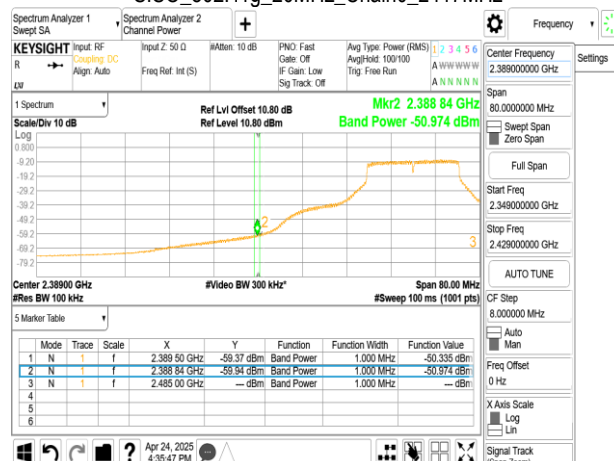
SISO\_802.11g\_20MHz\_Chain0\_2412MHz



SISO\_802.11b\_20MHz\_Chain0\_2467MHz



SISO\_802.11g\_20MHz\_Chain0\_2417MHz

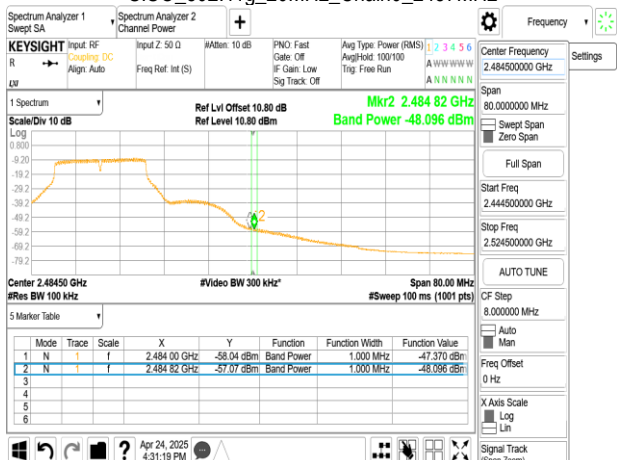


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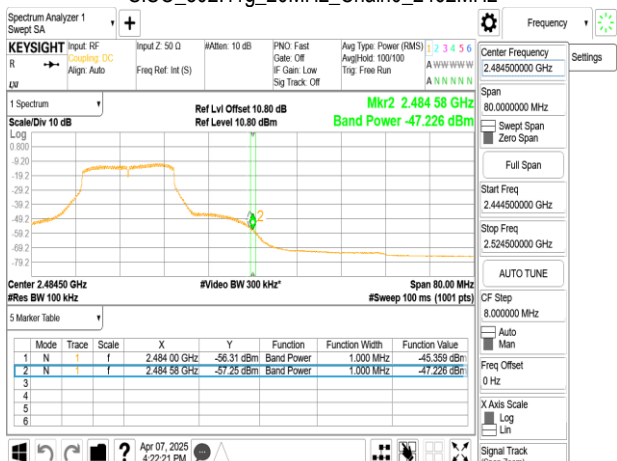
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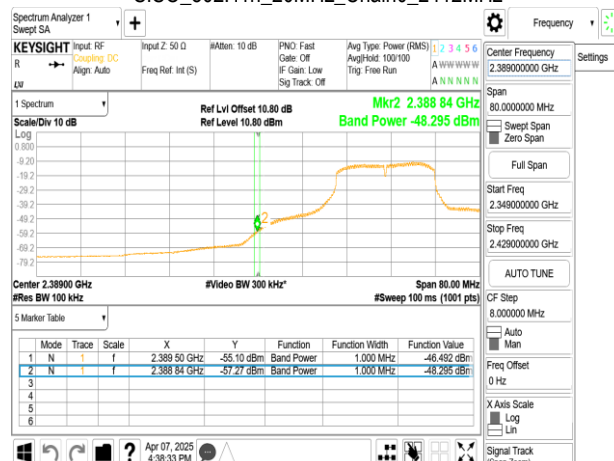
SISO\_802.11g\_20MHz\_Chain0\_2472MHz



SISO\_802.11g\_20MHz\_Chain0\_2462MHz



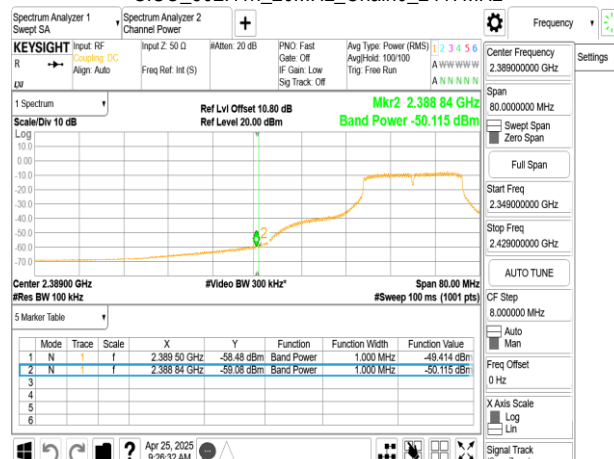
SISO\_802.11n\_20MHz\_Chain0\_2412MHz



SISO\_802.11g\_20MHz\_Chain0\_2467MHz



SISO\_802.11n\_20MHz\_Chain0\_2417MHz



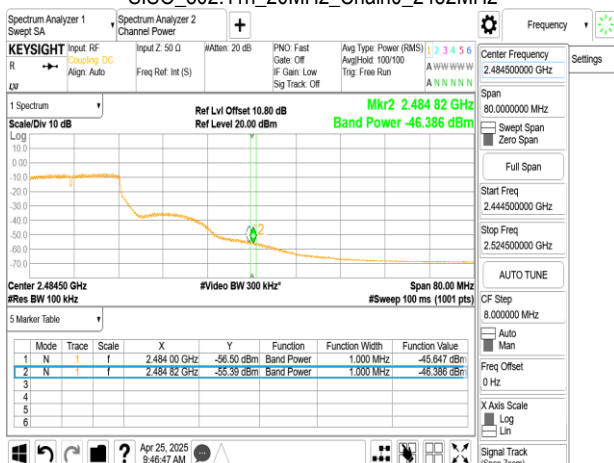
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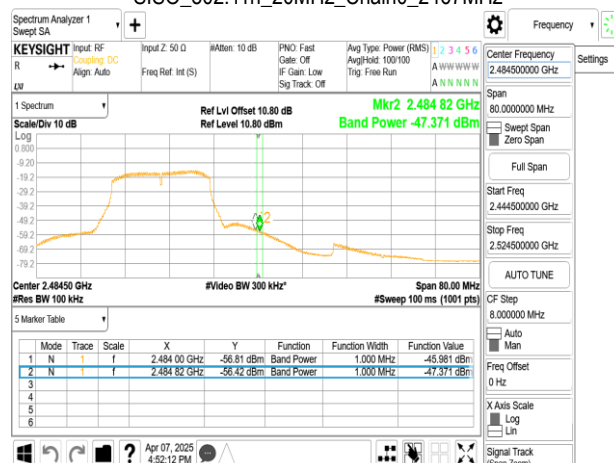
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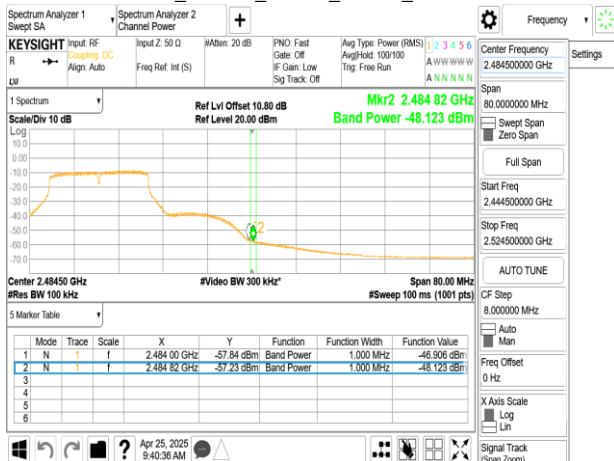
SISO\_802.11n\_20MHz\_Chain0\_2452MHz



SISO\_802.11n\_20MHz\_Chain0\_2467MHz



SISO\_802.11n\_20MHz\_Chain0\_2457MHz



SISO\_802.11n\_20MHz\_Chain0\_2472MHz



SISO\_802.11n\_20MHz\_Chain0\_2462MHz



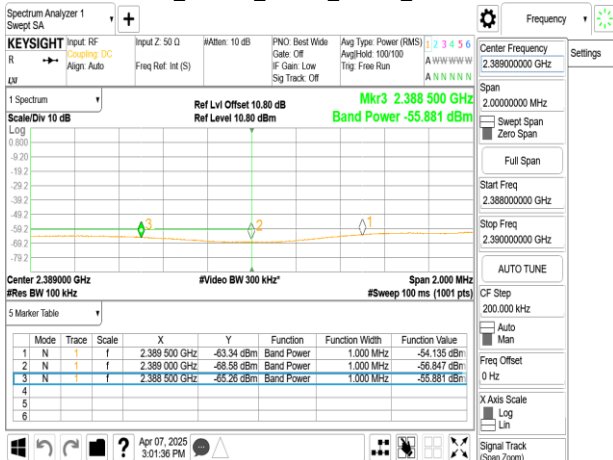
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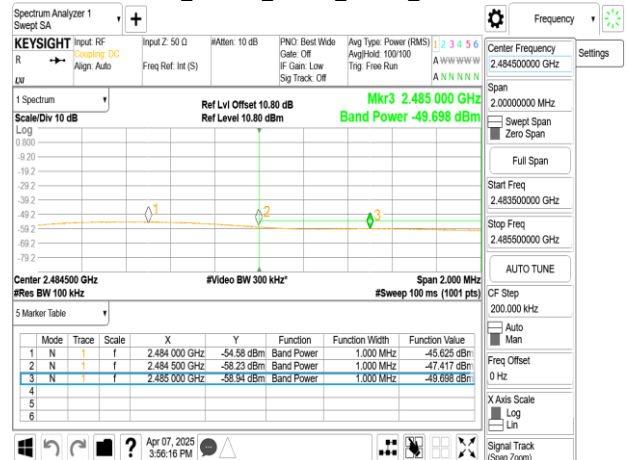
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## Average IM

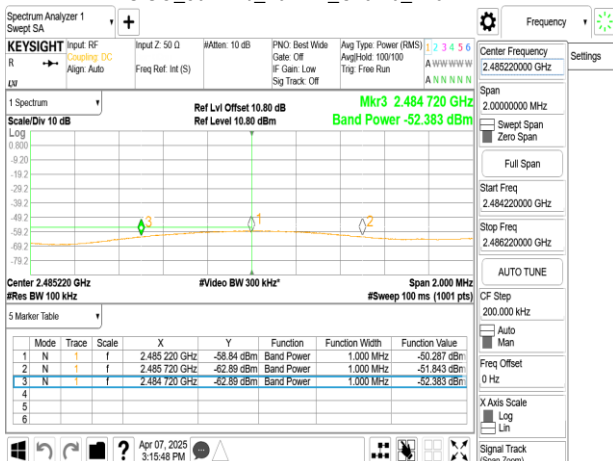
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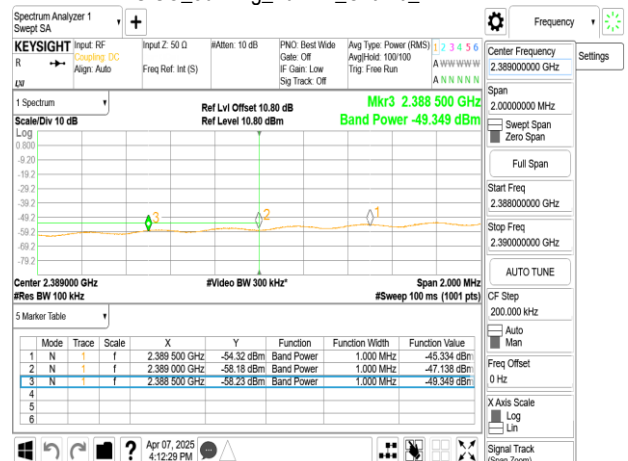
SISO\_802.11b\_20MHz\_Chain0\_2472MHz



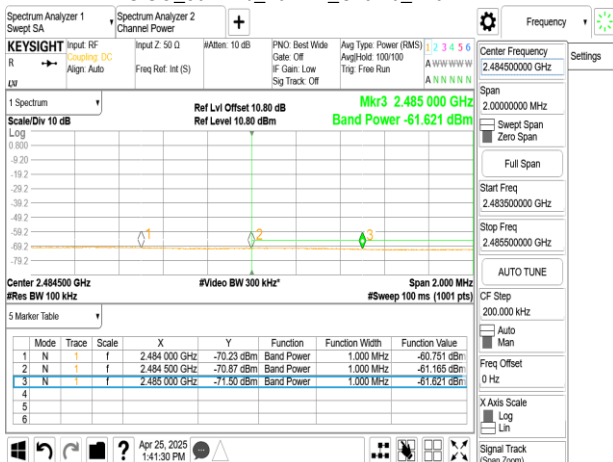
SISO\_802.11b\_20MHz\_Chain0\_2462MHz



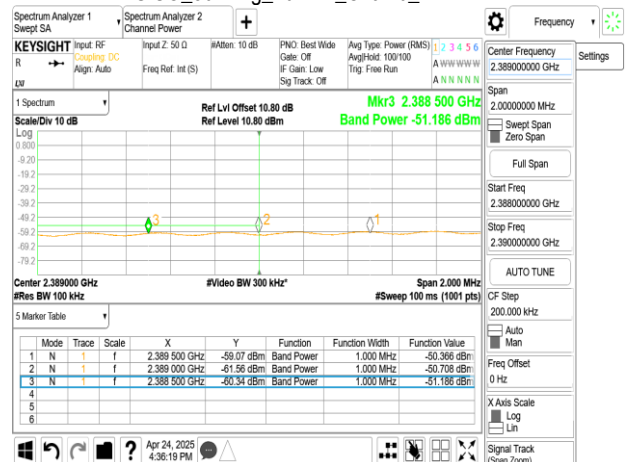
SISO\_802.11g\_20MHz\_Chain0\_2412MHz



SISO\_802.11b\_20MHz\_Chain0\_2467MHz



SISO\_802.11g\_20MHz\_Chain0\_2417MHz



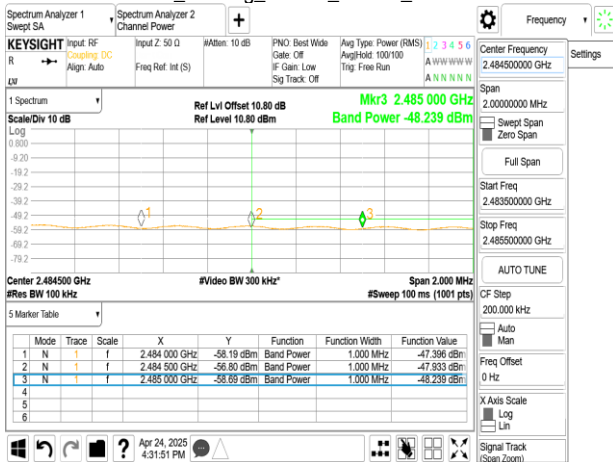
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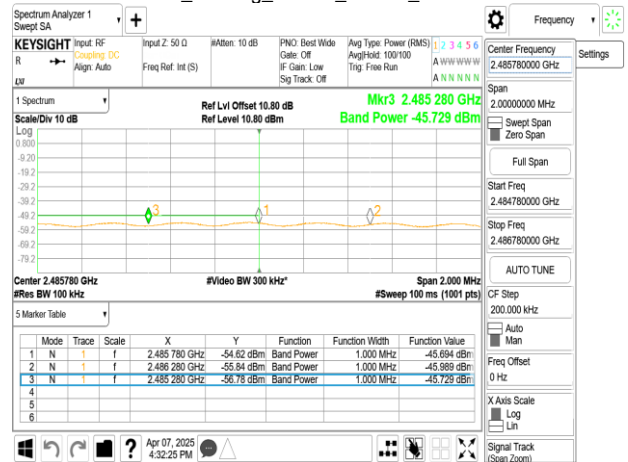
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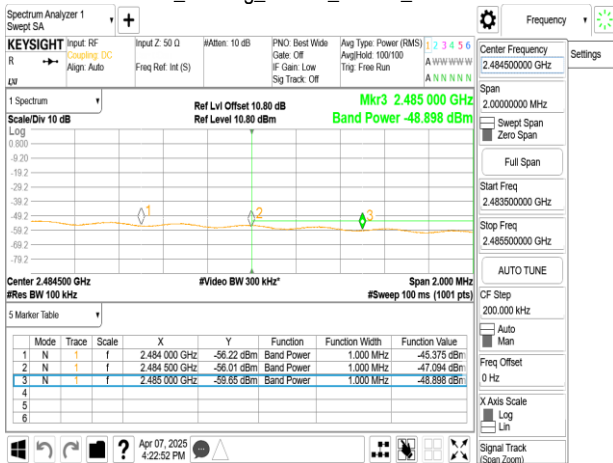
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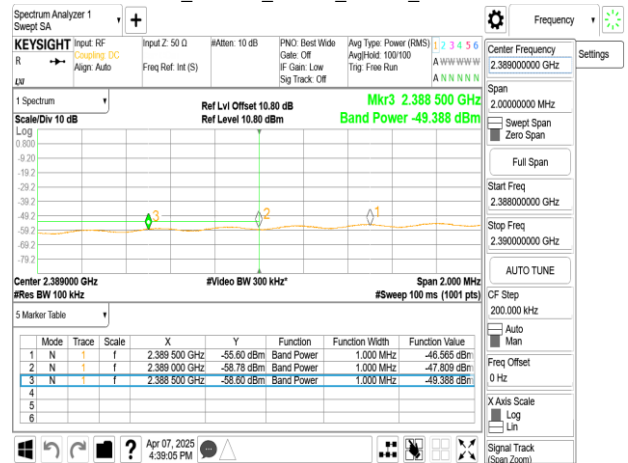
SISO\_802.11g\_20MHz\_Chain0\_2472MHz



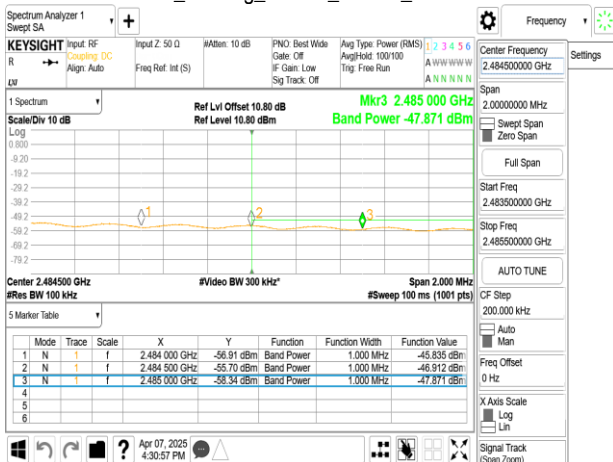
SISO\_802.11g\_20MHz\_Chain0\_2462MHz



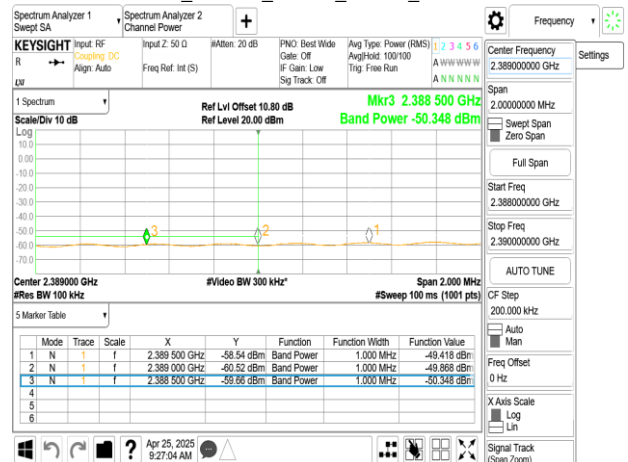
SISO\_802.11n\_20MHz\_Chain0\_2412MHz



SISO\_802.11g\_20MHz\_Chain0\_2467MHz



SISO\_802.11n\_20MHz\_Chain0\_2417MHz

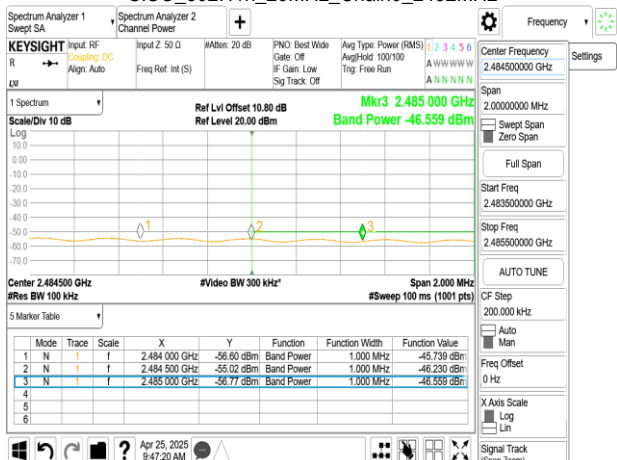


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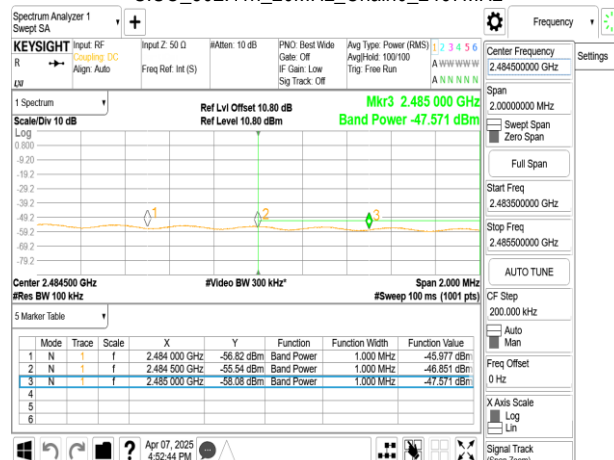
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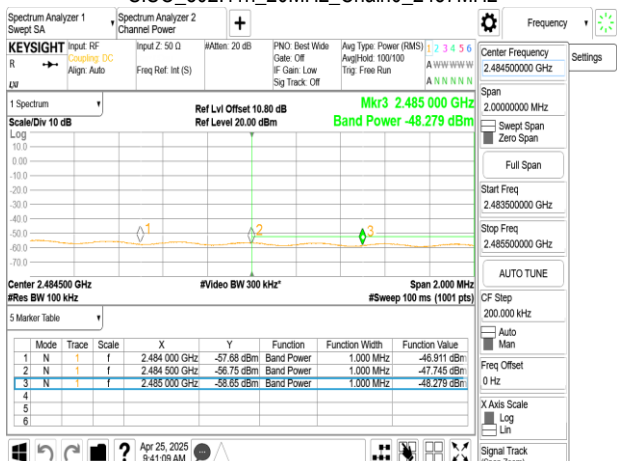
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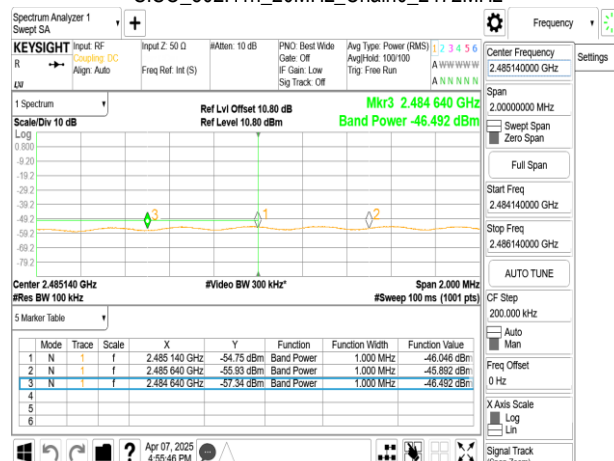
SISO\_802.11n\_20MHz\_Chain0\_2467MHz



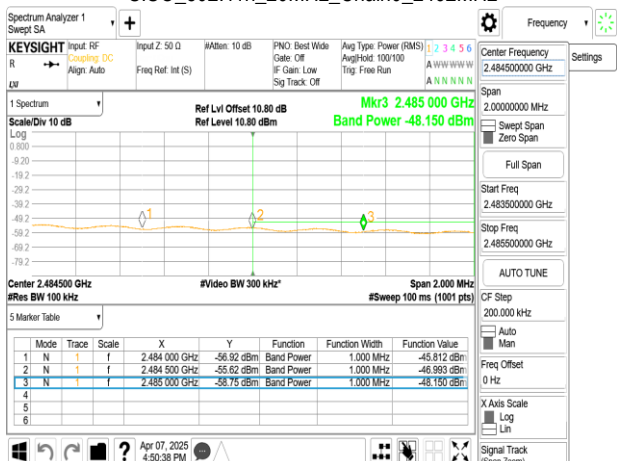
SISO\_802.11n\_20MHz\_Chain0\_2457MHz



SISO\_802.11n\_20MHz\_Chain0\_2472MHz



SISO\_802.11n\_20MHz\_Chain0\_2462MHz



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