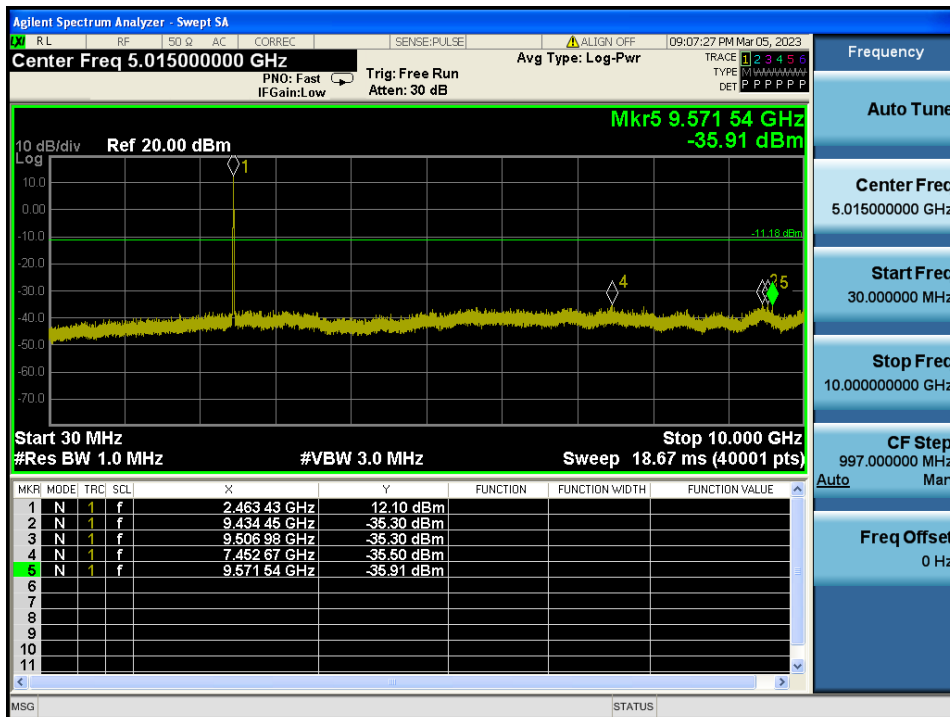
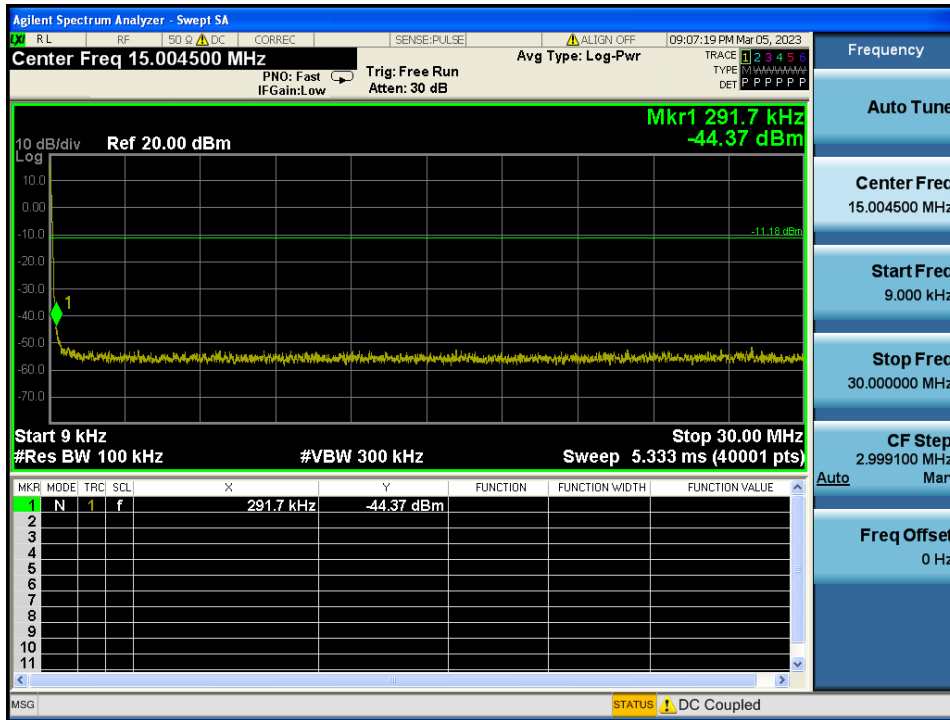
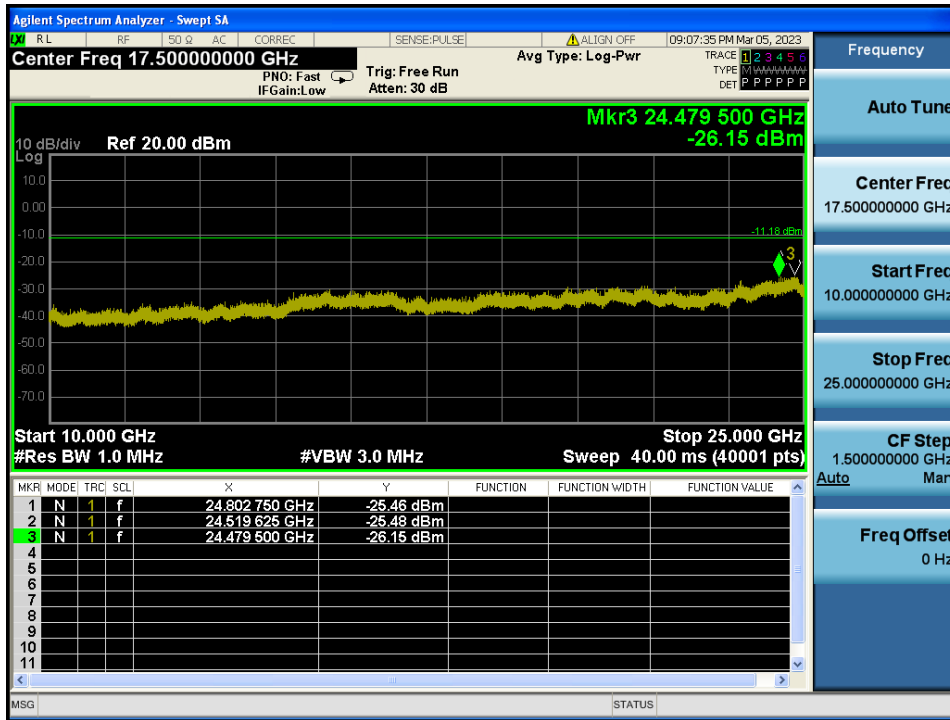


Conducted Spurious Emissions

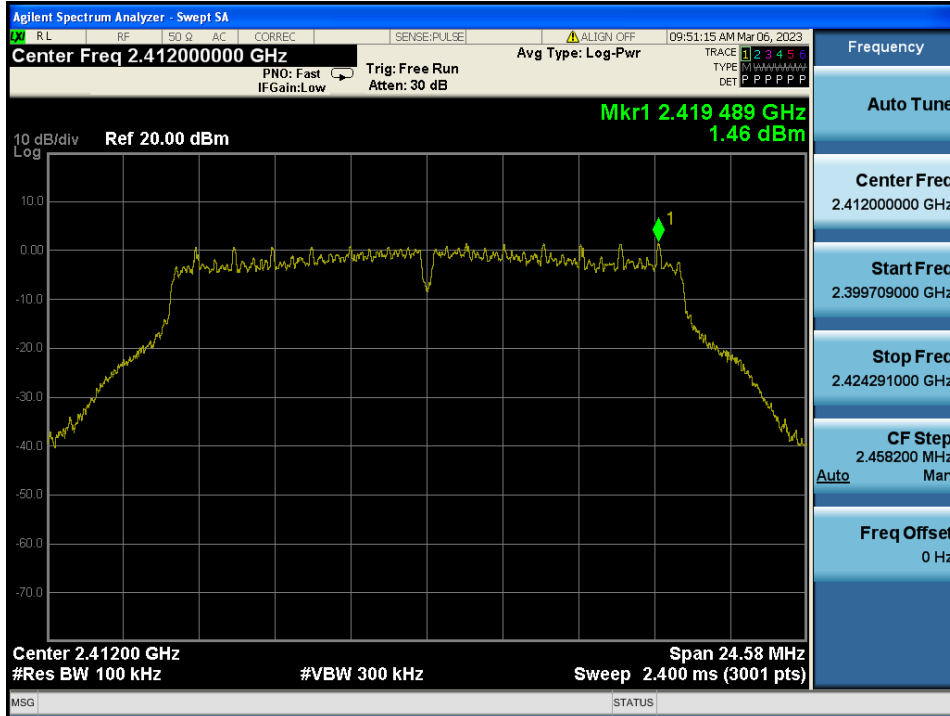


Conducted Spurious Emissions

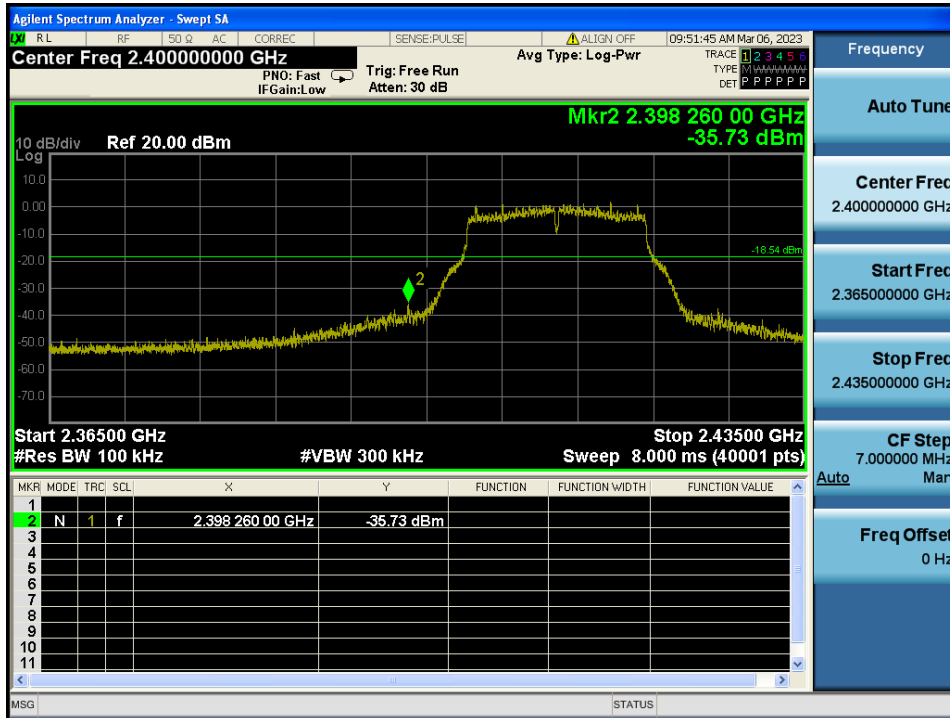


TM 2 & ANT 2 & 2 412

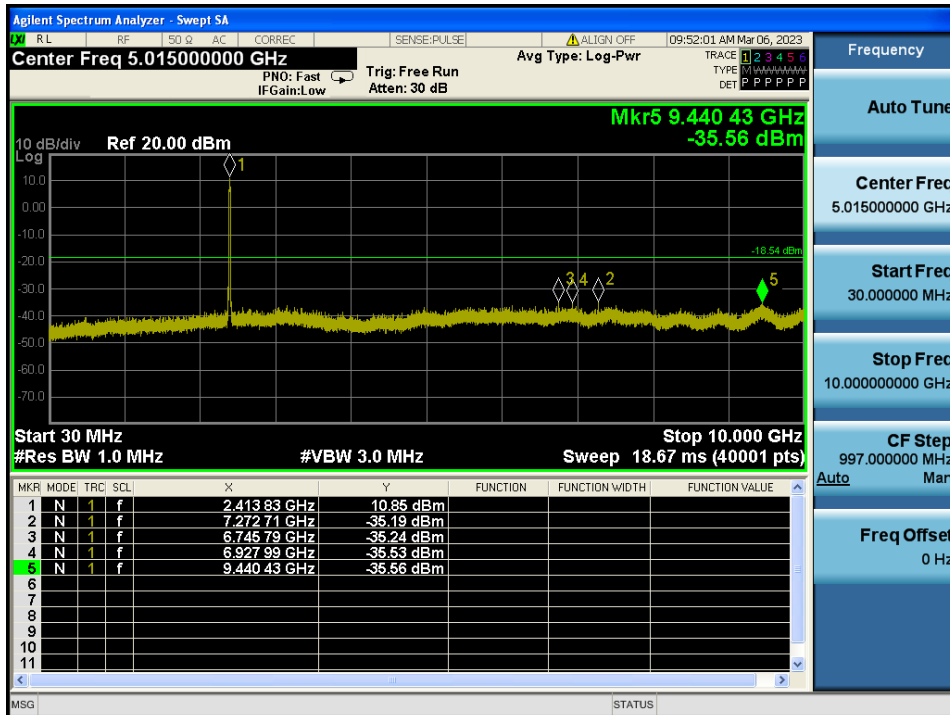
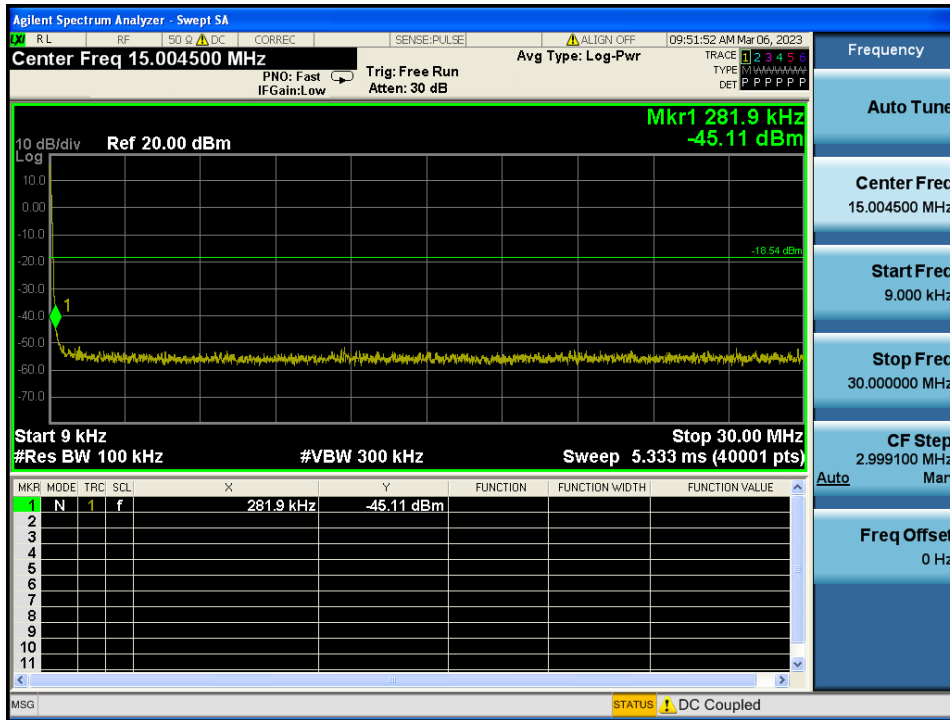
Reference



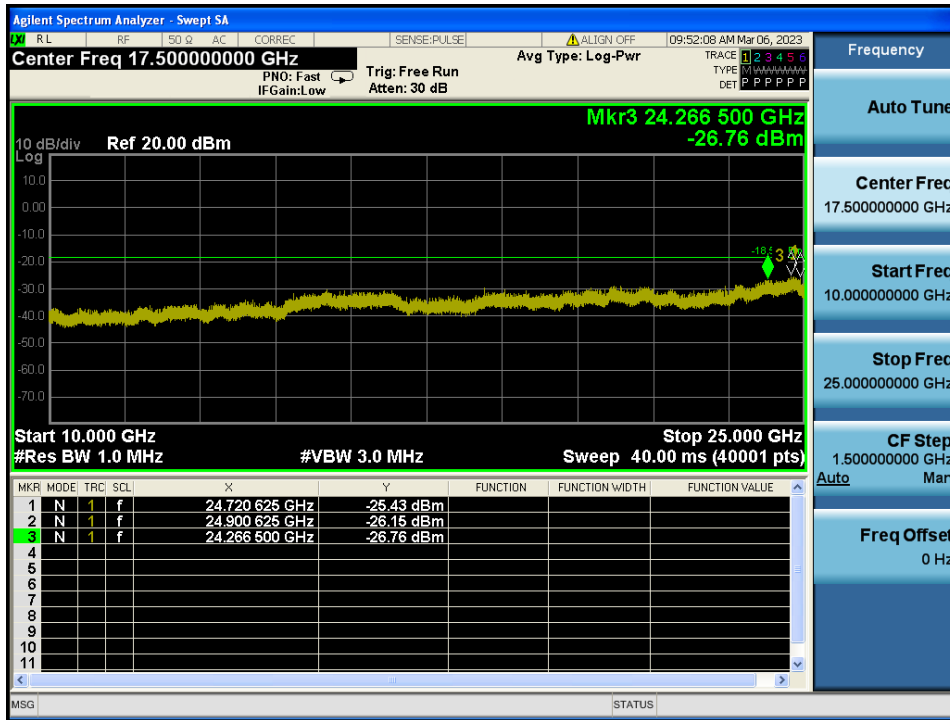
Low Band-edge



Conducted Spurious Emissions

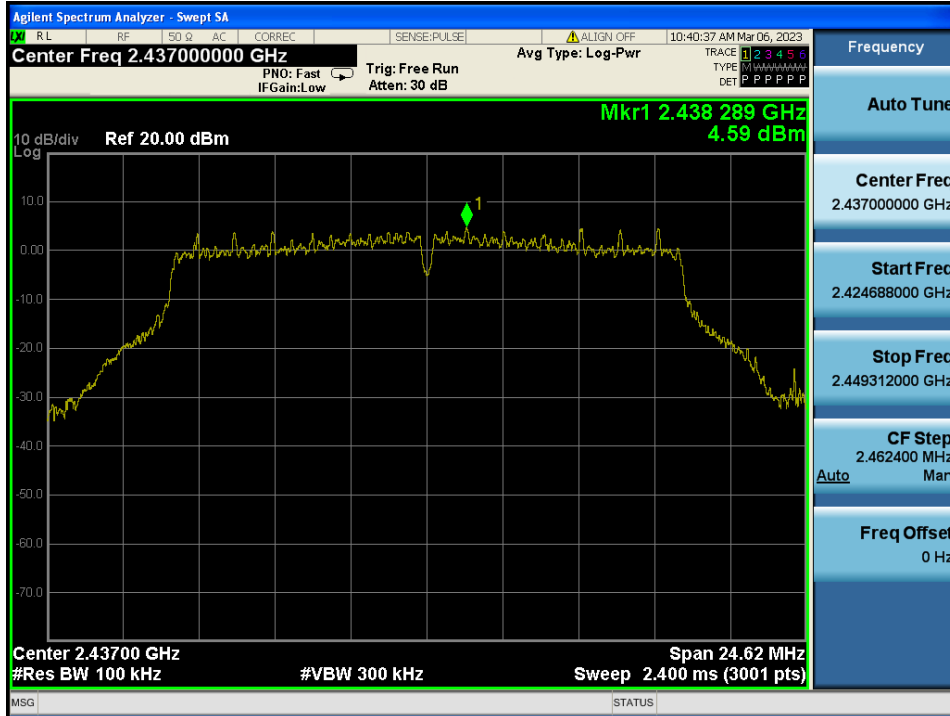


Conducted Spurious Emissions

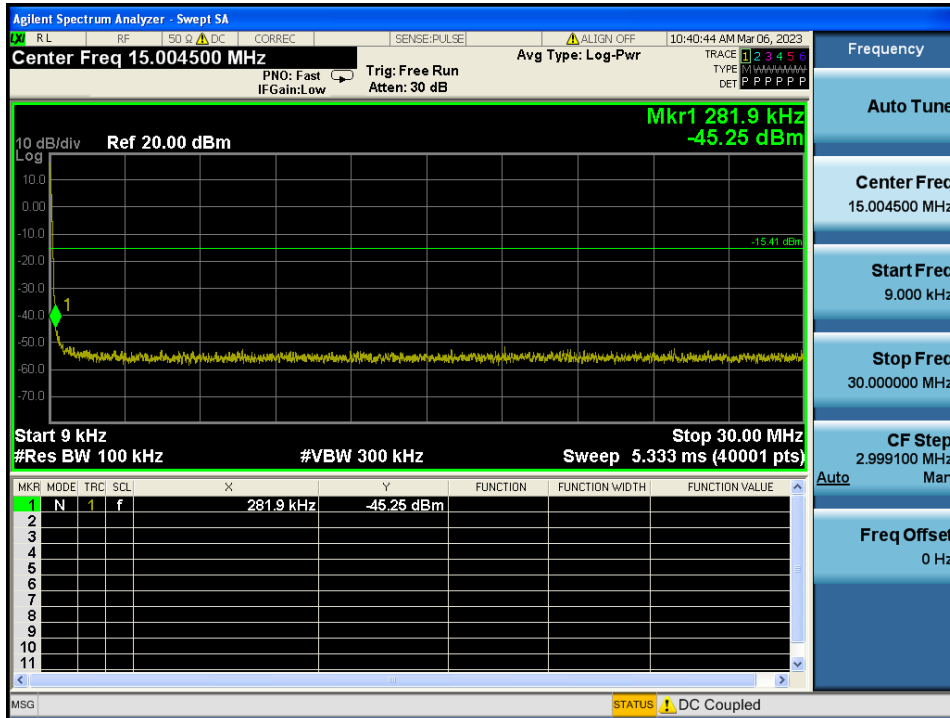


TM 2 & ANT 2 & 2 437

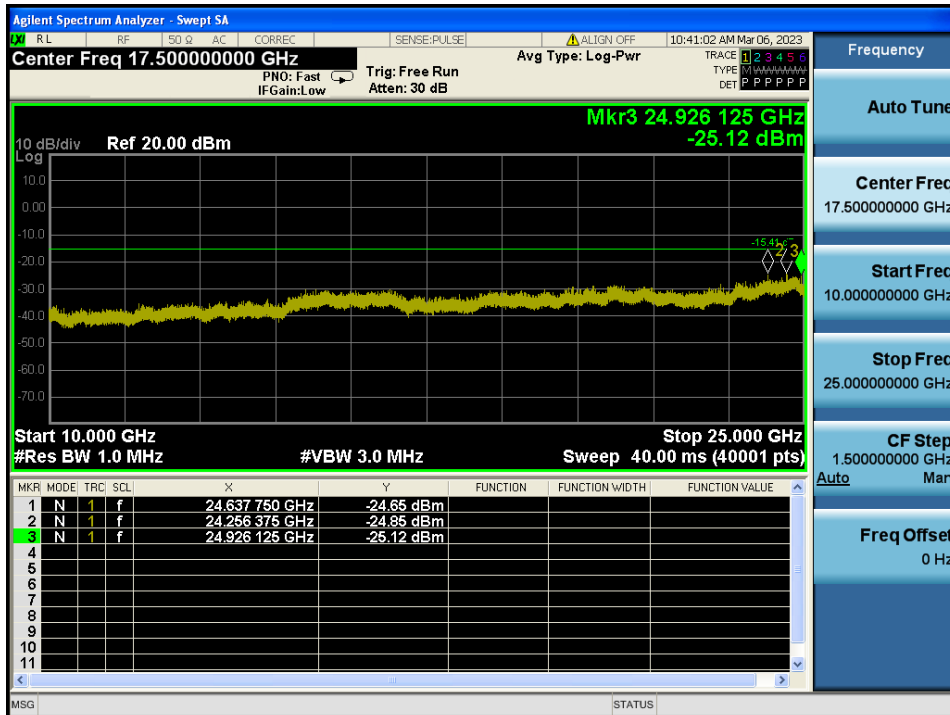
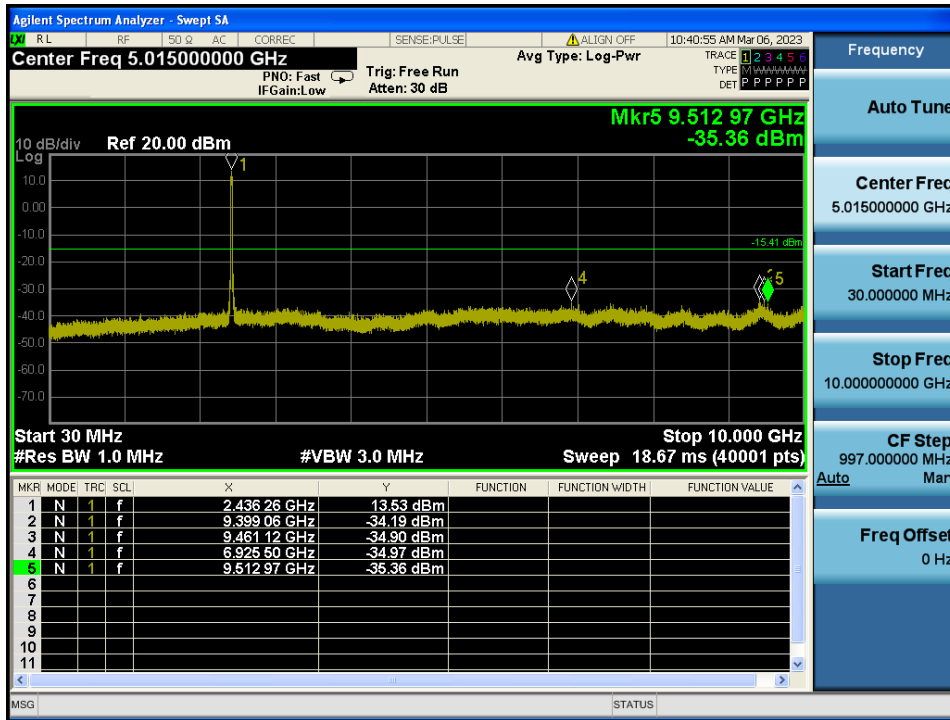
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Conducted Spurious Emissions

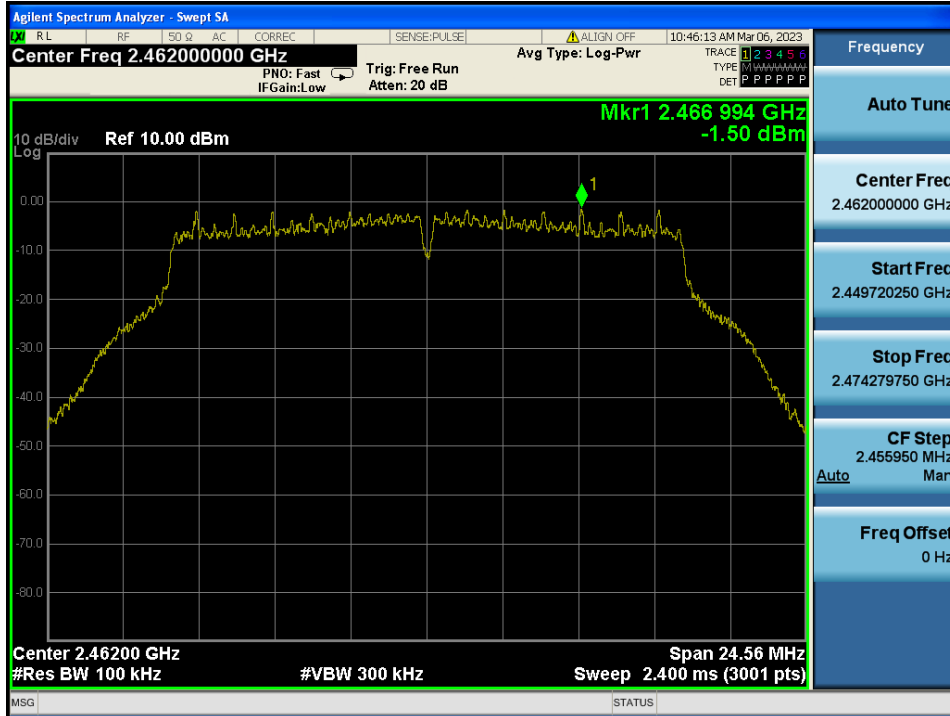


Conducted Spurious Emissions

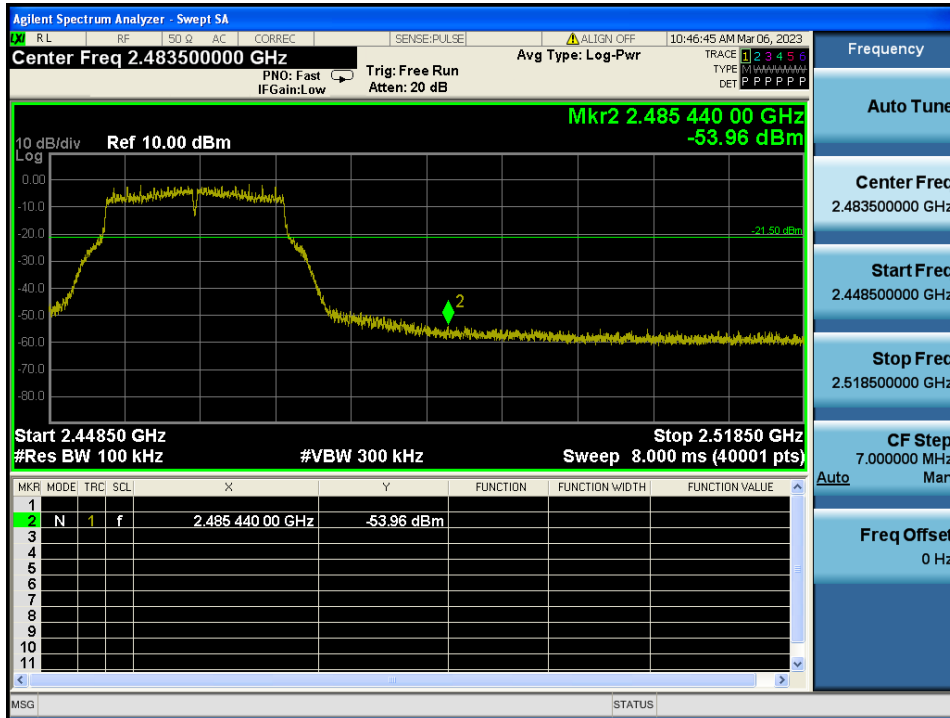


TM 2 & ANT 2 & 2 462

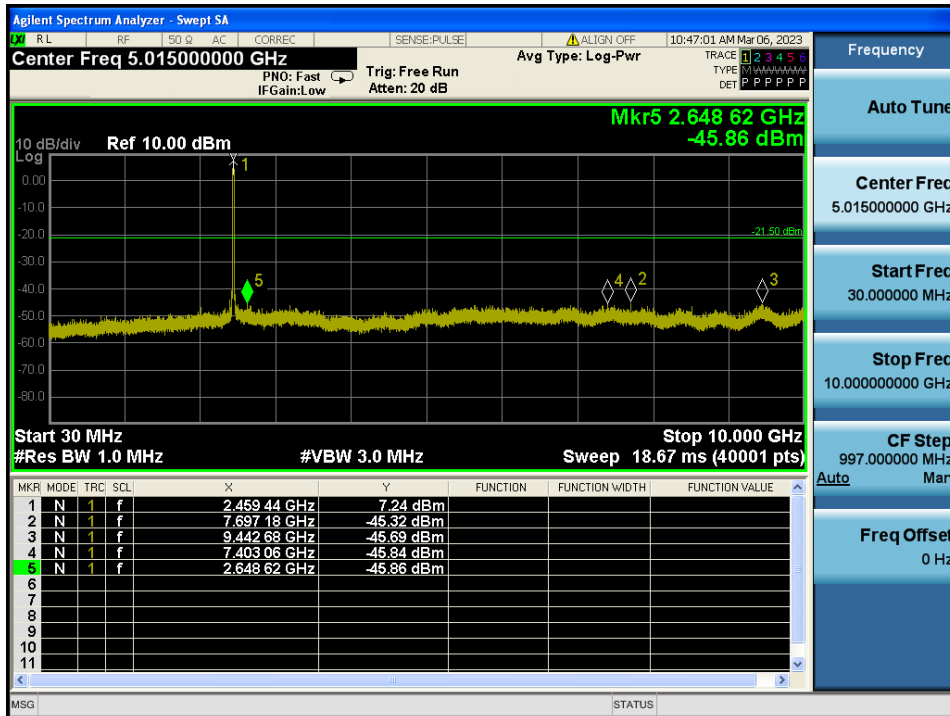
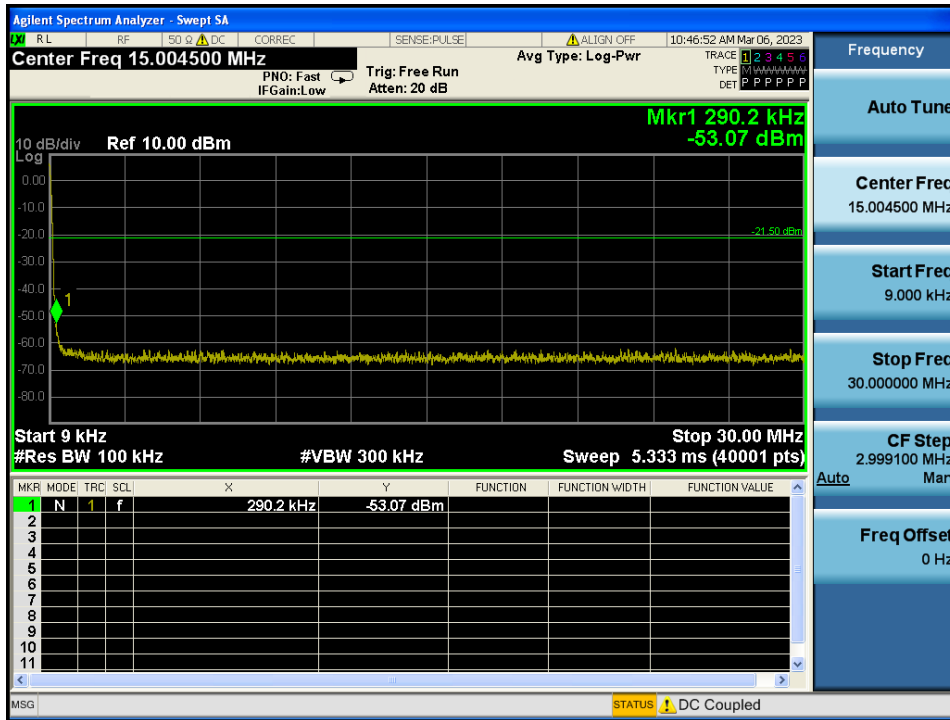
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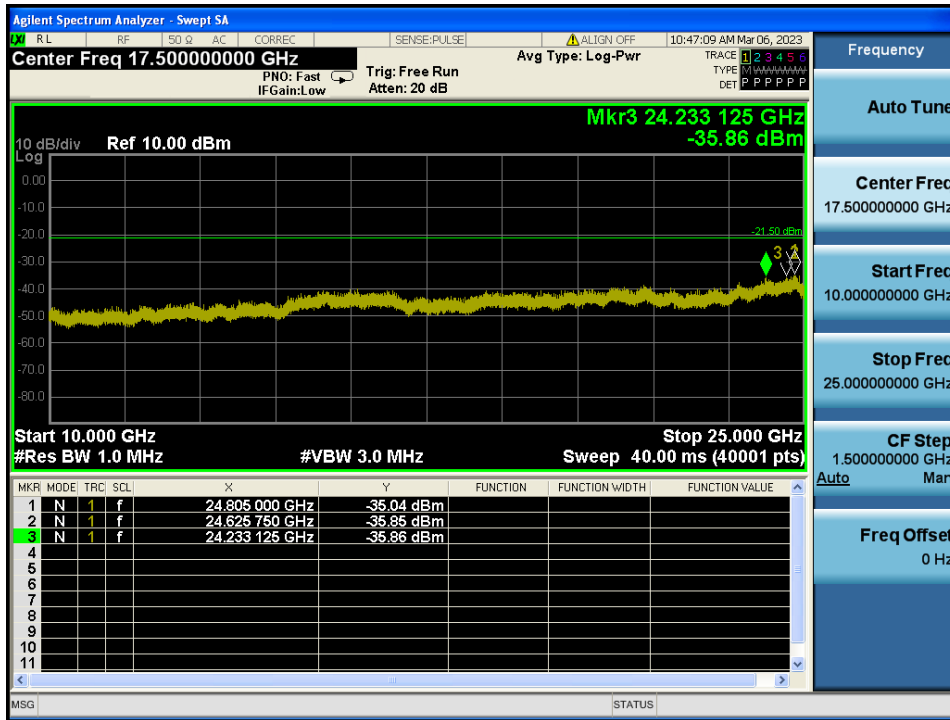
High Band-edge



Conducted Spurious Emissions

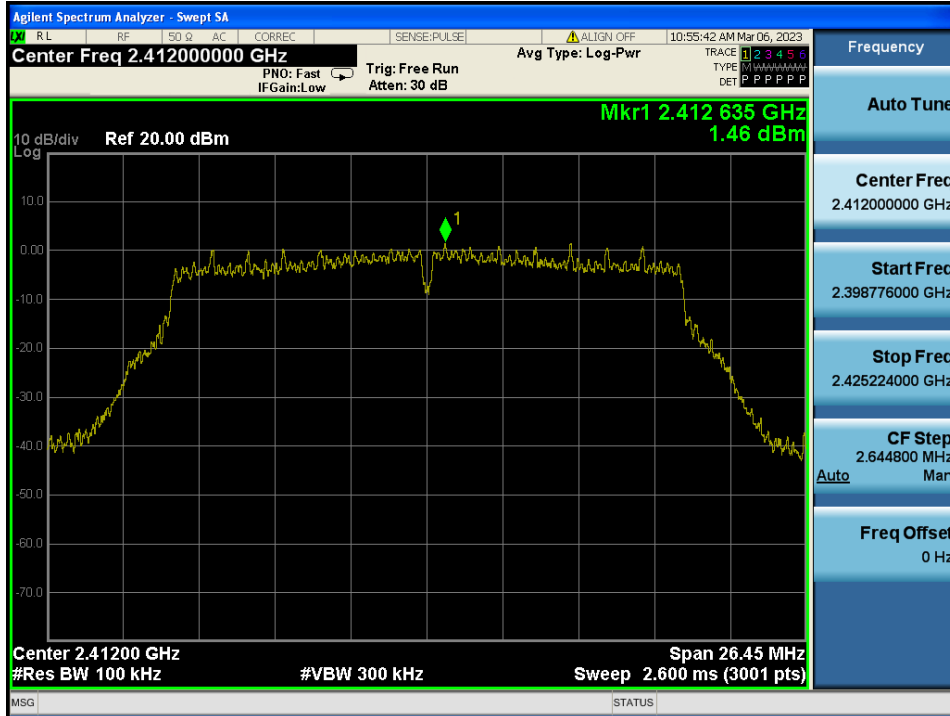


Conducted Spurious Emissions

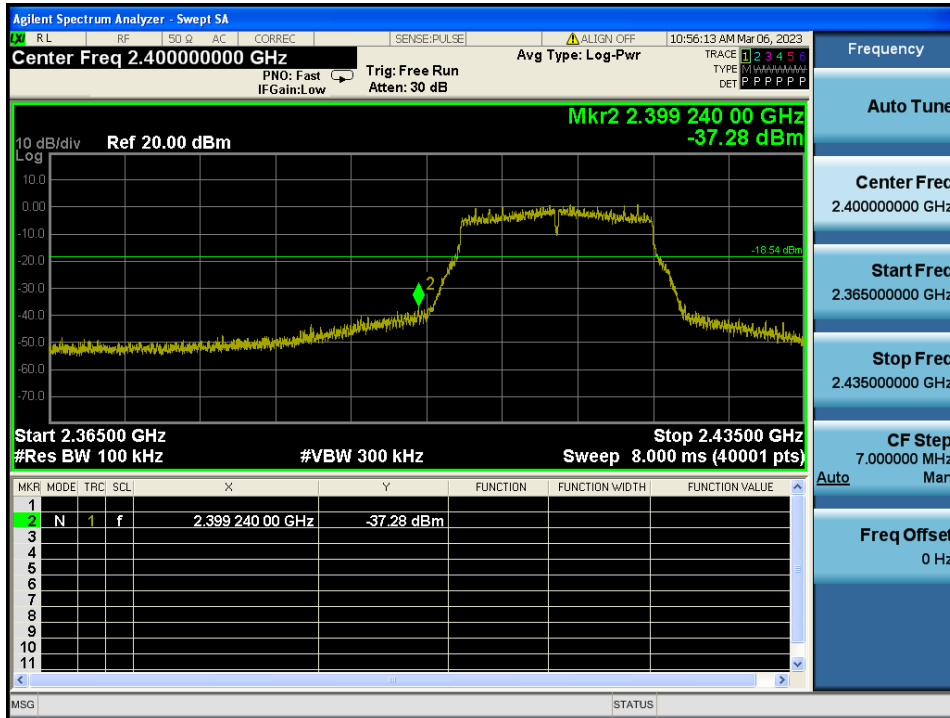


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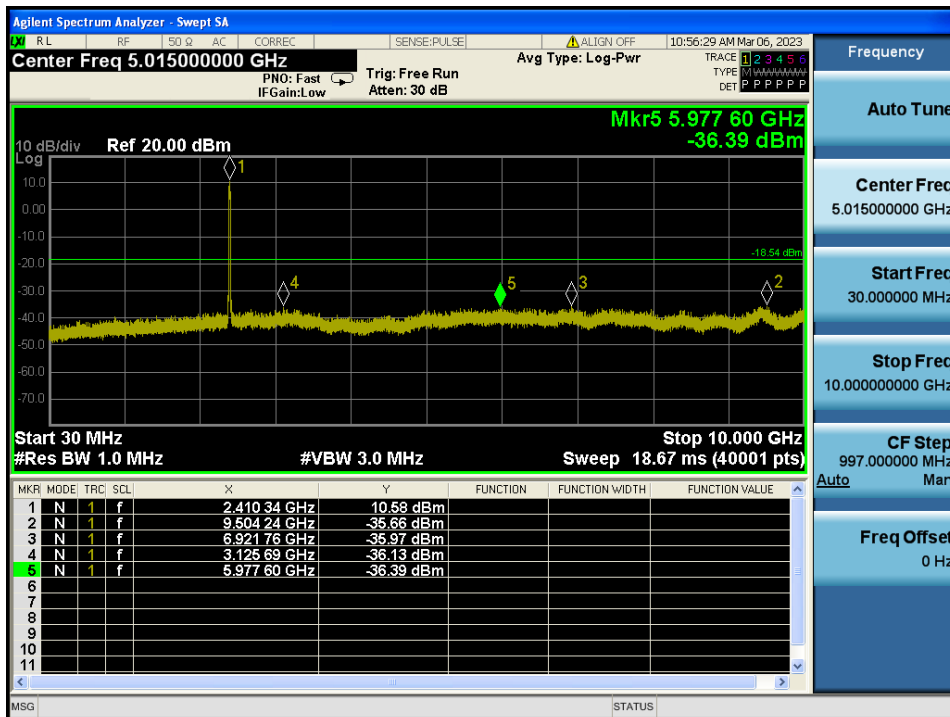
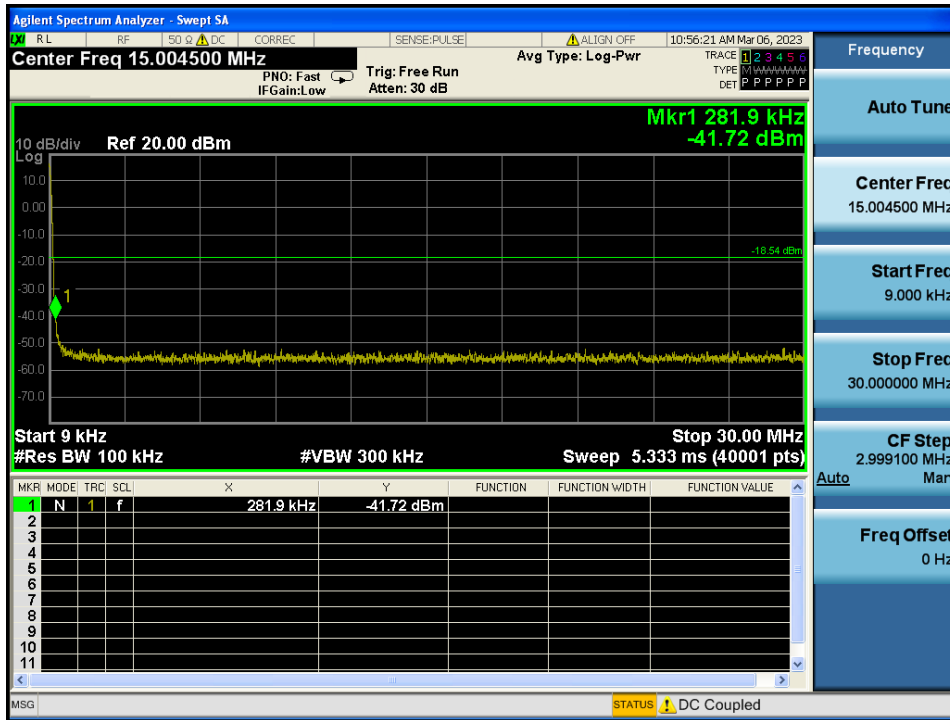
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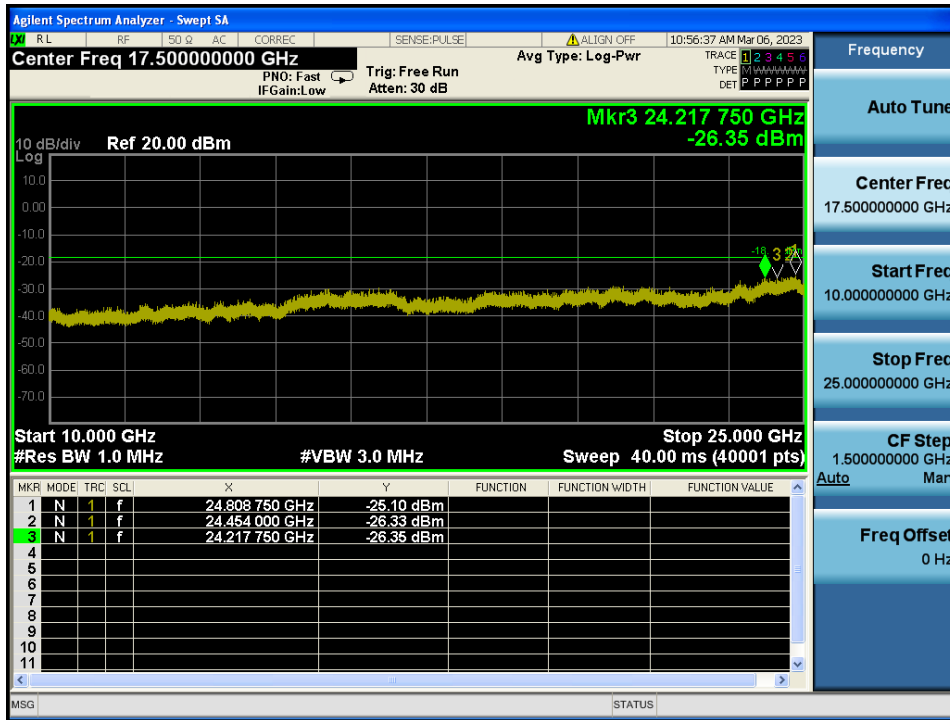
Low Band-edge



Conducted Spurious Emissions

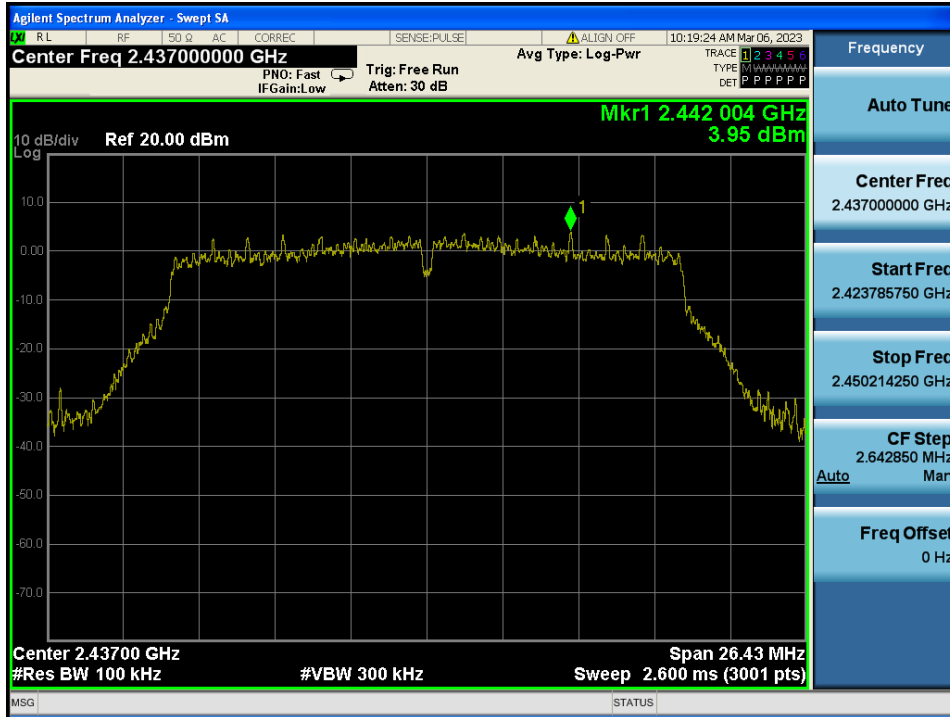


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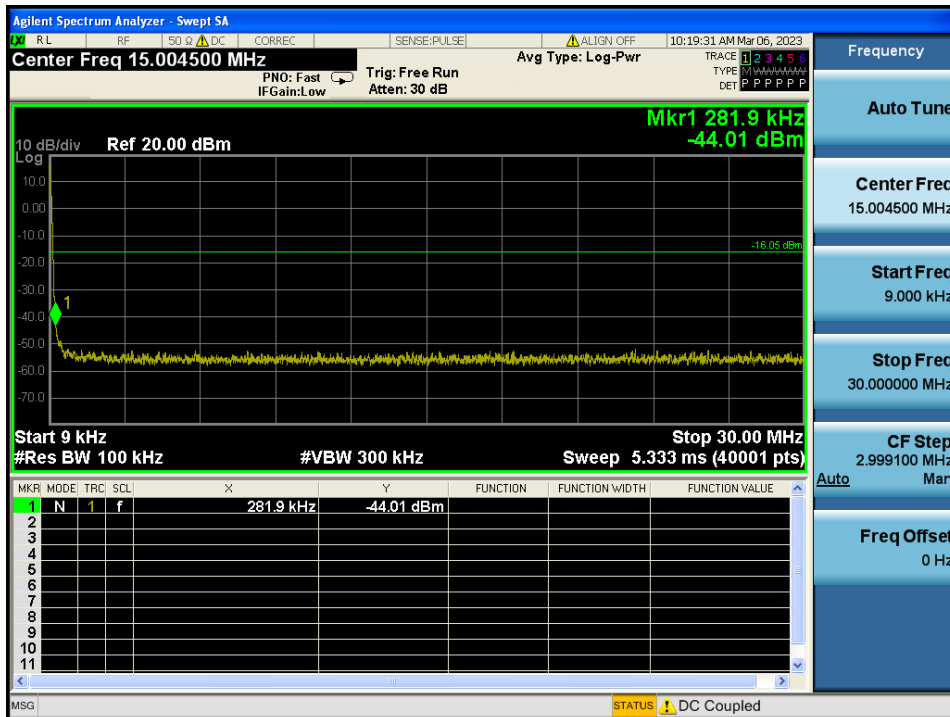


TM 3 & ANT 2 & 2 437

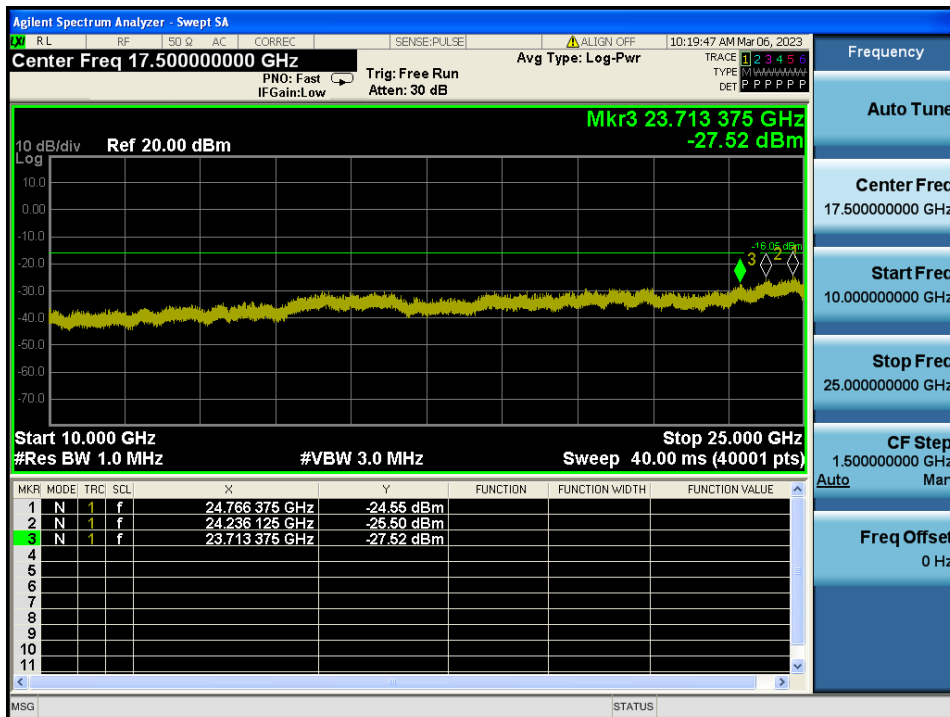
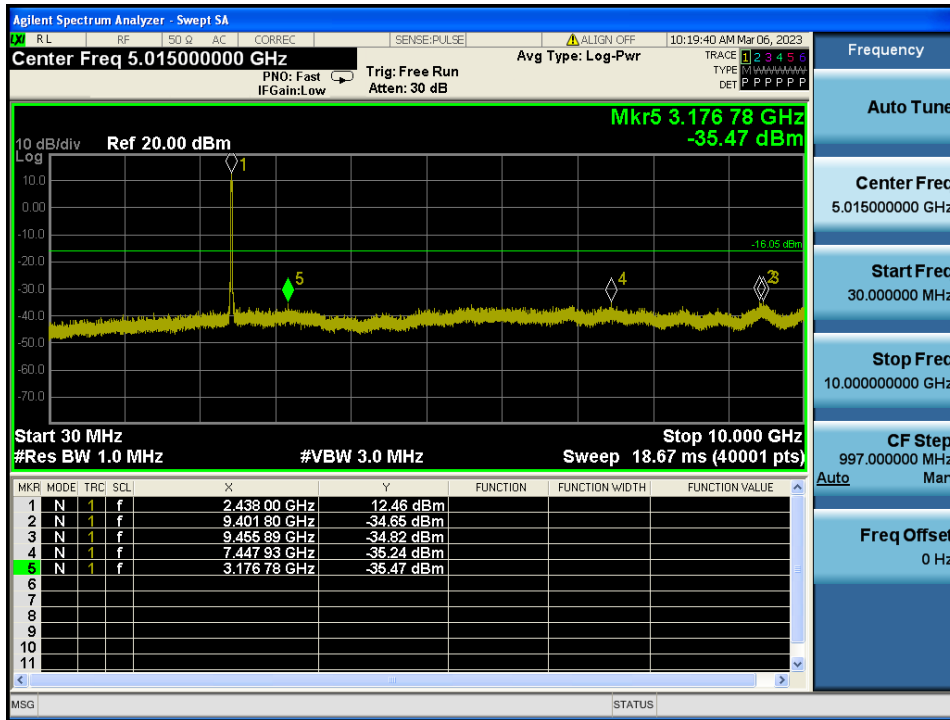
Reference



Conducted Spurious Emissions

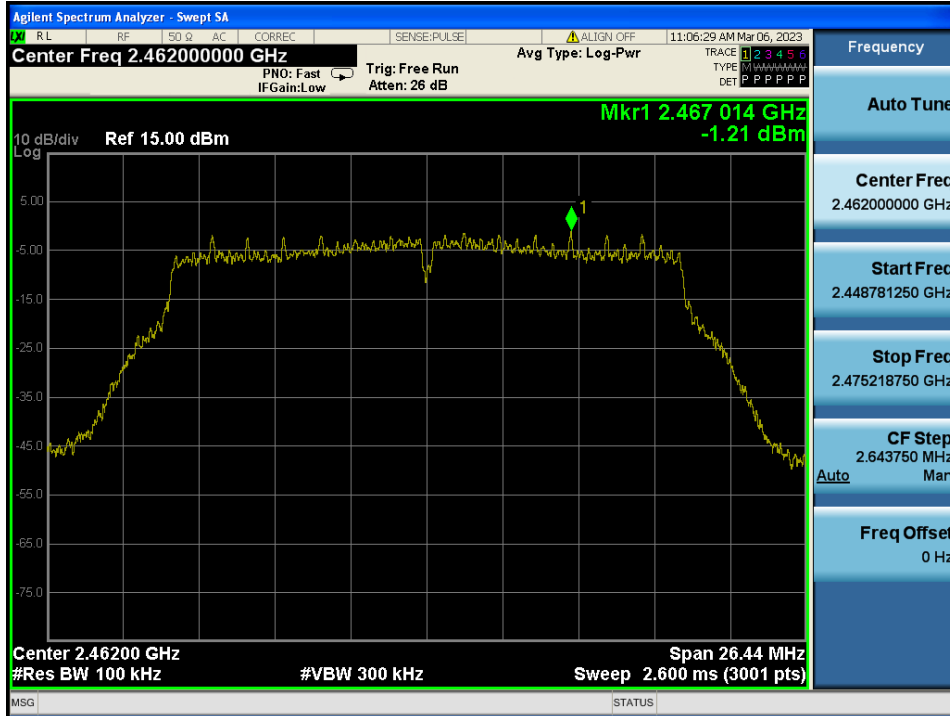


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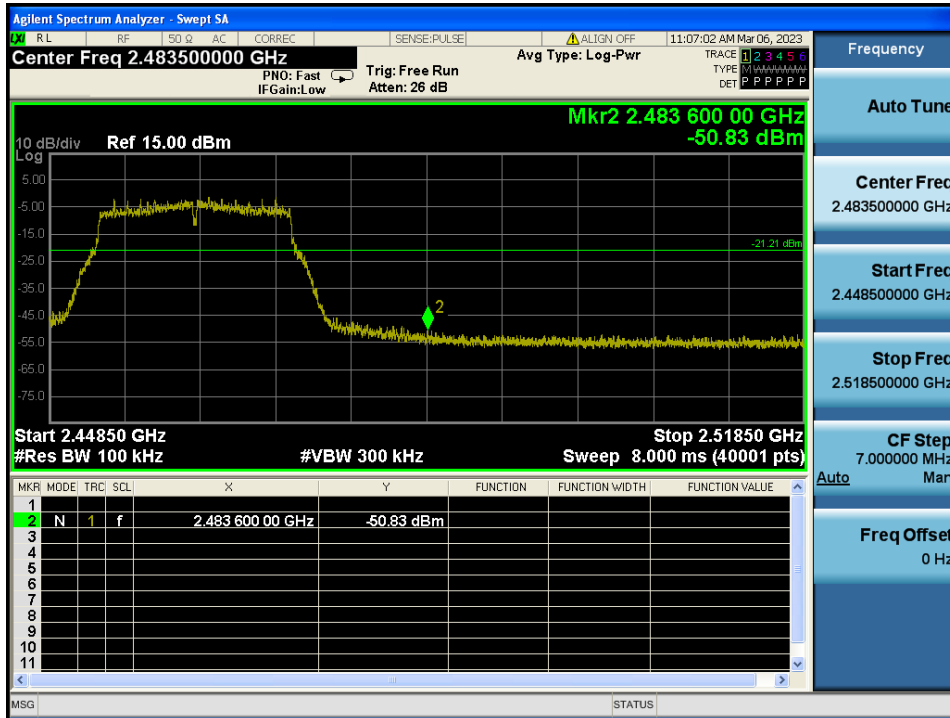


TM 3 & ANT 2 & 2 462

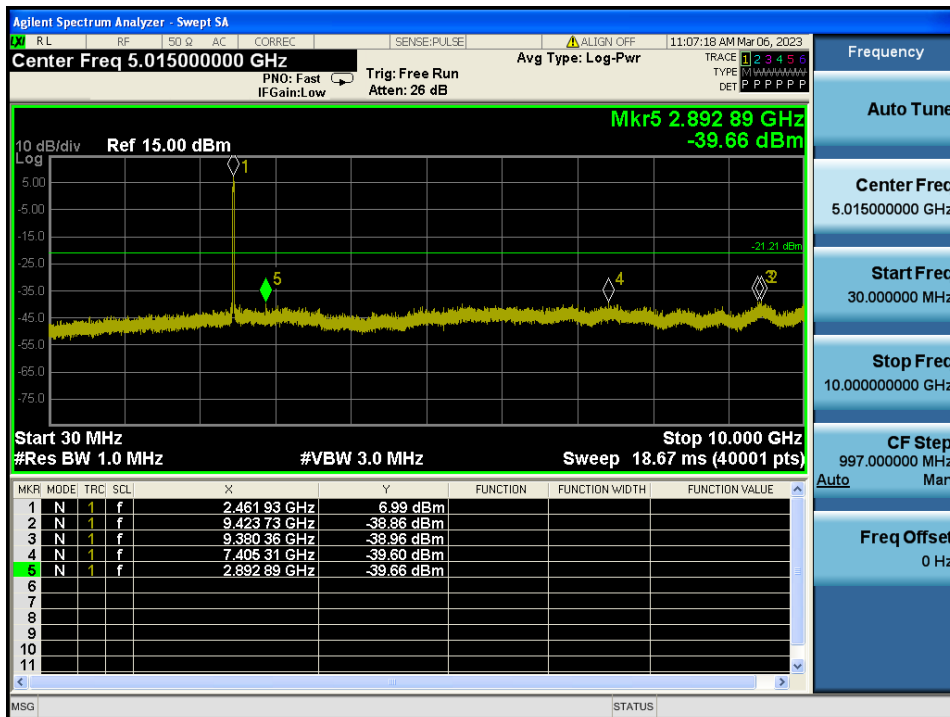
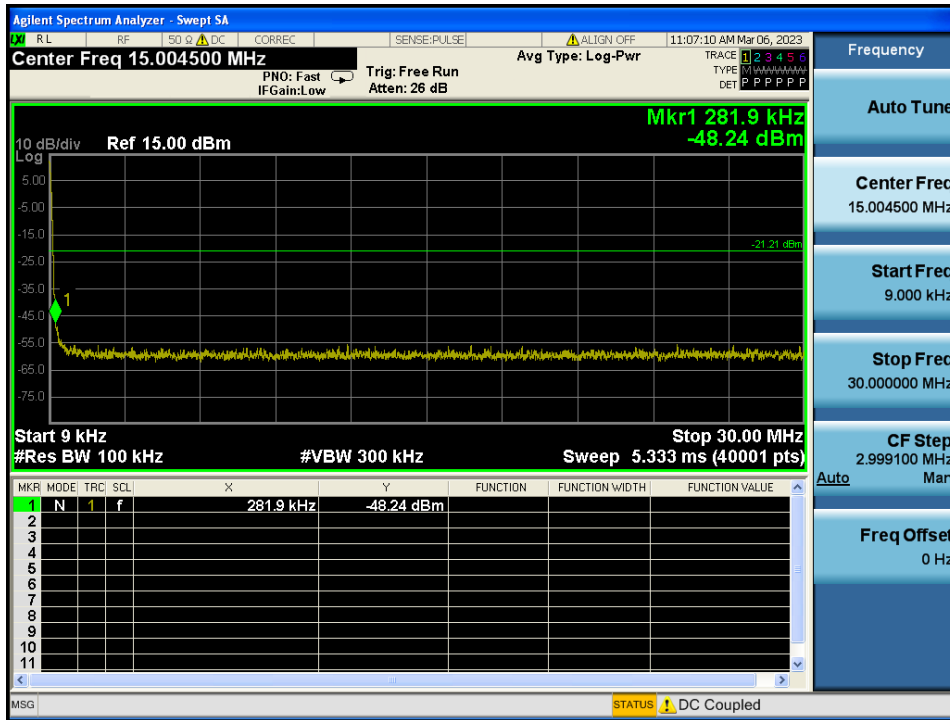
Reference



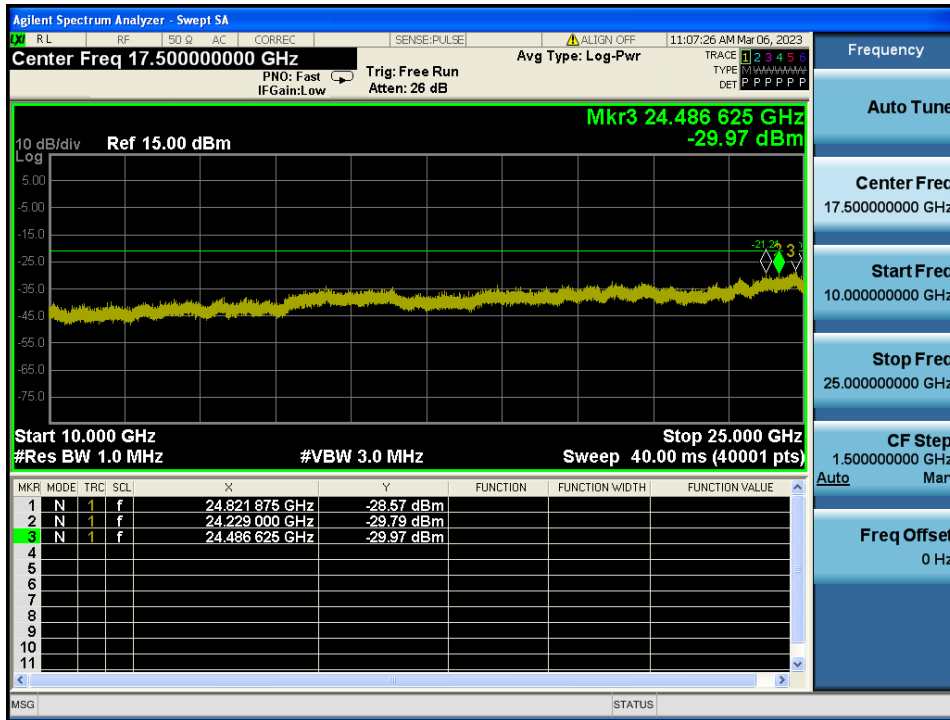
High Band-edge



Conducted Spurious Emissions



Conducted Spurious Emissions



5.5. Unwanted Emissions (Radiated)

▣ Test Requirements and limit,

Part 15.247(d), Part 15.205, Part 15.209 & RSS-247 [5.5], RSS-Gen [8.9], RSS-Gen [8.10]

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of Part 15.247 the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

- Part 15.209 & RSS-Gen[8.9]: General requirement

| Frequency (MHz) | FCC Limit (uV/m) | IC Limit (uA/m) | Measurement Distance (m) |
|-----------------|------------------|-------------------|--------------------------|
| 0.009 – 0.490 | 2 400 / F (kHz) | 6.37/F (F in kHz) | 300 |
| 0.490 – 1.705 | 24 000 / F (kHz) | 63.7/F (F in kHz) | 30 |
| 1.705 – 30.0 | 30 | 0.08 | 30 |

| Frequency (MHz) | FCC Limit (uV/m) | IC Limit (uV/m) | Measurement Distance (m) |
|-----------------|------------------|-----------------|--------------------------|
| 30 ~ 88 | 100 ** | 100 | 3 |
| 88 ~ 216 | 150 ** | 150 | 3 |
| 216 ~ 960 | 200 ** | 200 | 3 |
| Above 960 | 500 | 500 | 3 |

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

- Part 15.205(a): Restricted band of operation

| MHz | MHz | MHz | MHz | GHz | GHz |
|---------------------|-----------------------|-------------------------|-------------------|--------------|---------------|
| 0.009 ~ 0.110 | 8.414 25 ~ 8.414 75 | 108 ~ 121.94 | 1 300 ~ 1 427 | 4.5 ~ 5.15 | 14.47 ~ 14.5 |
| 0.495 ~ 0.505 | 12.29 ~ 12.293 | 123 ~ 138 | 1 435 ~ 1 626.5 | 5.35 ~ 5.46 | 15.35 ~ 16.2 |
| 2.173 5 ~ 2.190 5 | 12.519 75 ~ 12.520 25 | 149.9 ~ 150.05 | 1 645.5 ~ 1 646.5 | 7.25 ~ 7.75 | 17.7 ~ 21.4 |
| 4.125 ~ 4.128 | 12.576 75 ~ 12.577 25 | 156.524 75 ~ 156.525 25 | 1 660 ~ 1 710 | 8.025 ~ 8.5 | 22.01 ~ 23.12 |
| 4.177 25 ~ 4.177 75 | 13.36 ~ 13.41 | 156.7 ~ 156.9 | 1 718.8 ~ 1 722.2 | 9.0 ~ 9.2 | 23.6 ~ 24.0 |
| 4.207 25 ~ 4.207 75 | 16.42 ~ 16.423 | 162.012 5 ~ 167.17 | 2 200 ~ 2 300 | 9.3 ~ 9.5 | 31.2 ~ 31.8 |
| 6.215 ~ 6.218 | 16.694 75 ~ 16.695 25 | 167.72 ~ 173.2 | 2 310 ~ 2 390 | 10.6 ~ 12.7 | 36.43 ~ 36.5 |
| 6.267 75 ~ 6.268 25 | 16.804 25 ~ 16.804 75 | 240 ~ 285 | 2 483.5 ~ 2 500 | 13.25 ~ 13.4 | Above 38.6 |
| 6.311 75 ~ 6.312 25 | 25.5 ~ 25.67 | 322 ~ 335.4 | 2 655 ~ 2 900 | | |
| 8.291 ~ 8.294 | 37.5 ~ 38.25 | 399.90 ~ 410 | 3 260 ~ 3 267 | | |
| 8.362 ~ 8.366 | 73 ~ 74.6 | 608 ~ 614 | 3 332 ~ 3 339 | | |
| 8.376 25 ~ 8.386 75 | 74.8 ~ 75.2 | 960 ~ 1 240 | 3 345.8 ~ 3 358 | | |
| | | | 3 600 ~ 4 400 | | |

- RSS-Gen[8.10]: Restricted frequency bands

| MHz | MHz | MHz | MHz | MHz | GHz |
|---------------------|-----------------------|--------------------|-------------------|-----------------|---------------|
| 0.090 ~ 0.110 | 8.362 ~ 8.366 | 73 ~ 74.6 | 608 ~ 614 | 3 345.8 ~ 3 358 | 9.0 ~ 9.2 |
| 0.495 ~ 0.505 | 8.376 25 ~ 8.386 75 | 74.8 ~ 75.2 | 960 ~ 1 427 | 3 500 ~ 4 400 | 9.3 ~ 9.5 |
| 2.173 5 ~ 2.190 5 | 8.414 25 ~ 8.414 75 | 108 ~ 138 | 1 435 ~ 1 626.5 | 4 500 ~ 5 150 | 10.6 ~ 12.7 |
| 3.020 ~ 3.026 | 12.29 ~ 12.293 | 149.9 ~ 150.05 | 1 645.5 ~ 1 646.5 | 5 350 ~ 5 460 | 13.25 ~ 13.4 |
| 4.125 ~ 4.128 | 12.519 75 ~ 12.520 25 | 156.524 75 ~ | 1 660 ~ 1 710 | 7 250 ~ 7 750 | 14.47 ~ 14.5 |
| 4.177 25 ~ 4.177 75 | 12.576 75 ~ 12.577 25 | 156.525 25 | 1 718.8 ~ 1 722.2 | 8 025 ~ 8 500 | 15.35 ~ 16.2 |
| 4.207 25 ~ 4.207 75 | 13.36 ~ 13.41 | 156.7 ~ 156.9 | 2 200 ~ 2 300 | | 17.7 ~ 21.4 |
| 5.677 ~ 5.683 | 16.42 ~ 16.423 | 162.01 25 ~ 167.17 | 2 310 ~ 2 390 | | 22.01 ~ 23.12 |
| 6.215 ~ 6.218 | 16.694 75 ~ 16.695 25 | 167.72 ~ 173.2 | 2 483.5 ~ 2 500 | | 23.6 ~ 24.0 |
| 6.267 75 ~ 6.268 25 | 16.804 25 ~ 16.804 75 | 240 ~ 285 | 2 655 ~ 2 900 | | 31.2 ~ 31.8 |
| 6.311 75 ~ 6.312 25 | 25.5 ~ 25.67 | 322 ~ 335.4 | 3 260 ~ 3 267 | | 36.43 ~ 36.5 |
| 8.291 ~ 8.294 | 37.5 ~ 38.25 | 399.90 ~ 410 | 3 332 ~ 3 339 | | Above 38.6 |

5.5.1. Test Setup

Refer to the APPENDIX I.

5.5.2. Test Procedures

1. The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

Note: Measurement Instrument Setting for Radiated Emission Measurements.

- KDB558074 D01v05r02 - Section 8.6
- ANSI C63.10-2013 – Section 11.12

1. Frequency Range Below 1 GHz

RBW = 100 or 120 kHz, VBW = 3 x RBW, Detector = Peak or Quasi Peak

2. Frequency Range > 1 GHz

Peak Measurement > 1 GHz

RBW = 1 MHz, VBW = 3 MHz, Detector = Peak, Sweep time = Auto, Trace mode = Max Hold until the trace stabilizes

Average Measurement > 1 GHz

1. RBW = 1 MHz (unless otherwise specified).
2. VBW \geq 3 x RBW.
3. Detector = RMS (Number of points \geq 2 x Span / RBW)
4. Averaging type = power (i.e., RMS).
5. Sweep time = auto.
6. Perform a trace average of at least 100 traces.
7. A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step 4, then the applicable correction factor is $10 \log(1 / D)$, where D is the duty cycle.
 - 2) If linear voltage averaging mode was used in step 4, then the applicable correction factor is $20 \log(1 / D)$, where D is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (\geq 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

Duty Cycle Correction factor

| Test Mode | Date rate | T _{on} (ms) | T _{on+off} (ms) | D = T _{on} / (T _{on+off}) | DCCF = 10 log(1/D) (dB) |
|-----------|-----------|----------------------|--------------------------|--|-------------------------|
| TM 1 | 1 Mbps | 8.610 | 8.700 | 0.989 7 | 0.04 |
| TM 2 | 6 Mbps | 1.428 | 1.527 | 0.935 2 | 0.29 |
| TM 3 | MCS 0 | 1.335 | 1.435 | 0.930 3 | 0.31 |

Note1: Where, T= Transmission duration / D= Duty cycle

Note2: Please refer to the appendix II for duty cycle plots.

5.5.3. Test Results

- Test Notes

1. The radiated emissions were investigated 9 kHz to 25 GHz. And no other spurious and harmonic emissions were found below listed frequencies.
2. Information of Distance Correction 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 correction 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.
3. Sample Calculation.
 $\text{Margin} = \text{Limit} - \text{Result}$ / $\text{Result} = \text{Reading} + \text{TF} + \text{DCCF} + \text{DCF}$ / $\text{TF} = \text{AF} + \text{CL} + \text{HL} + \text{AL} - \text{AG}$
 Where, TF = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, HL = High pass filter Loss, AL = Attenuator Loss, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor

Radiated Emissions data(9 kHz ~ 25 GHz) : TM 1

| Tested Frequency (MHz) | Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | TF (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin(dB) |
|------------------------|-----------------|---------|---------------------|---------------|----------------|-----------|-----------|----------|-----------------|----------------|------------|
| 2 412 | 2 389.93 | H | Z | PK | 54.06 | 4.60 | N/A | N/A | 58.66 | 74.00 | 15.34 |
| | 2 389.44 | H | Z | AV | 43.57 | 4.60 | N/A | N/A | 48.17 | 54.00 | 5.83 |
| | 4 823.92 | H | Y | PK | 54.89 | 2.34 | N/A | N/A | 57.23 | 74.00 | 16.77 |
| | 4 823.93 | H | Y | AV | 48.44 | 2.34 | N/A | N/A | 50.78 | 54.00 | 3.22 |
| 2 437 | 4 873.78 | H | Y | PK | 55.02 | 2.18 | N/A | N/A | 57.20 | 74.00 | 16.80 |
| | 4 874.01 | H | Y | AV | 49.22 | 2.18 | N/A | N/A | 51.40 | 54.00 | 2.60 |
| 2 462 | 2 486.71 | H | Z | PK | 53.24 | 5.66 | N/A | N/A | 58.90 | 74.00 | 15.10 |
| | 2 486.37 | H | Z | AV | 44.29 | 5.66 | N/A | N/A | 49.95 | 54.00 | 4.05 |
| | 4 923.96 | H | Y | PK | 53.50 | 2.57 | N/A | N/A | 56.07 | 74.00 | 17.93 |
| | 4 923.92 | H | Y | AV | 48.23 | 2.57 | N/A | N/A | 50.80 | 54.00 | 3.20 |

Radiated Emissions data(9 kHz ~ 25 GHz) : TM 2

| Tested Frequency (MHz) | Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | TF (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin(dB) |
|------------------------|-----------------|---------|---------------------|---------------|----------------|-----------|-----------|----------|-----------------|----------------|------------|
| 2 412 | 2 388.36 | H | Z | PK | 57.67 | 4.60 | N/A | N/A | 62.27 | 74.00 | 11.73 |
| | 2 388.08 | H | Z | AV | 43.96 | 4.61 | 0.29 | N/A | 48.86 | 54.00 | 5.14 |
| | 4 823.86 | H | Y | PK | 52.40 | 2.34 | N/A | N/A | 54.74 | 74.00 | 19.26 |
| | 4 824.41 | H | Y | AV | 42.56 | 2.34 | 0.29 | N/A | 45.19 | 54.00 | 8.81 |
| 2 437 | 4 874.23 | H | Y | PK | 52.88 | 2.18 | N/A | N/A | 55.06 | 74.00 | 18.94 |
| | 4 874.60 | H | Y | AV | 42.80 | 2.19 | 0.29 | N/A | 45.28 | 54.00 | 8.72 |
| 2 462 | 2 483.96 | H | Z | PK | 56.80 | 5.62 | N/A | N/A | 62.42 | 74.00 | 11.58 |
| | 2 484.02 | H | Z | AV | 44.98 | 5.62 | 0.29 | N/A | 50.89 | 54.00 | 3.11 |
| | 4 924.82 | H | Y | PK | 50.27 | 2.57 | N/A | N/A | 52.84 | 74.00 | 21.16 |
| | 4 923.99 | H | Y | AV | 40.22 | 2.57 | 0.29 | N/A | 43.08 | 54.00 | 10.92 |

Radiated Emissions data(9 kHz ~ 25 GHz) : TM 3

| Tested Frequency (MHz) | Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | TF (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin(dB) |
|------------------------|-----------------|---------|---------------------|---------------|----------------|-----------|-----------|----------|-----------------|----------------|------------|
| 2 412 | 2 389.33 | H | Z | PK | 55.69 | 4.60 | N/A | N/A | 60.29 | 74.00 | 13.71 |
| | 2 389.79 | H | Z | AV | 44.42 | 4.60 | 0.31 | N/A | 49.33 | 54.00 | 4.67 |
| | 4 826.34 | H | Y | PK | 51.87 | 2.33 | N/A | N/A | 54.20 | 74.00 | 19.80 |
| | 4 826.45 | H | Y | AV | 41.83 | 2.33 | 0.31 | N/A | 44.47 | 54.00 | 9.53 |
| 2 437 | 4 874.03 | H | Y | PK | 53.65 | 2.18 | N/A | N/A | 55.83 | 74.00 | 18.17 |
| | 4 874.01 | H | Y | AV | 42.06 | 2.18 | 0.31 | N/A | 44.55 | 54.00 | 9.45 |
| 2 462 | 2 485.18 | H | Z | PK | 53.32 | 5.64 | N/A | N/A | 58.96 | 74.00 | 15.04 |
| | 2 484.84 | H | Z | AV | 42.97 | 5.63 | 0.31 | N/A | 48.91 | 54.00 | 5.09 |
| | 4 931.91 | H | Y | PK | 50.97 | 2.60 | N/A | N/A | 53.57 | 74.00 | 20.43 |
| | 4 932.05 | H | Y | AV | 40.40 | 2.60 | 0.31 | N/A | 43.31 | 54.00 | 10.69 |

5.6. AC Power-Line Conducted Emissions

▣ Test Requirements and limit, Part 15.207 & RSS-Gen [8.8]

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 ~ 5.0 | 56 | 46 |
| 5 ~ 30 | 60 | 50 |

* Decreases with the logarithm of the frequency

5.6.1. Test Setup

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

5.6.2. Test Procedures

Conducted emissions from the EUT were measured according to the ANSI C63.10-2013.

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.

5.6.3. Test Results

Refer to the next page. (The worst case data was reported. The worst data is TM 1 & Highest)

AC Power-Line Conducted Emissions (Graph)

Results of Conducted Emission

DTNC

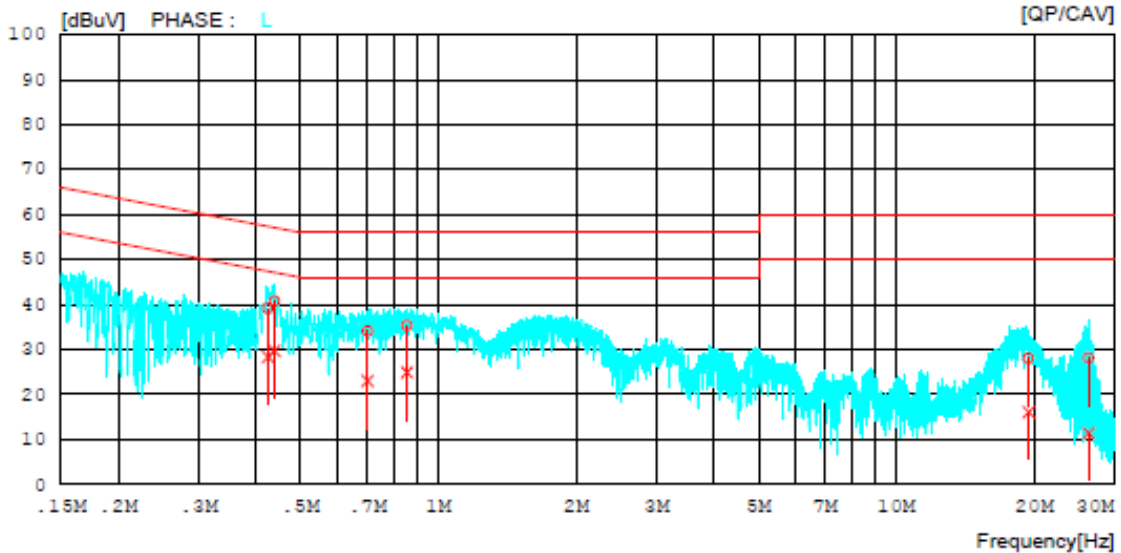
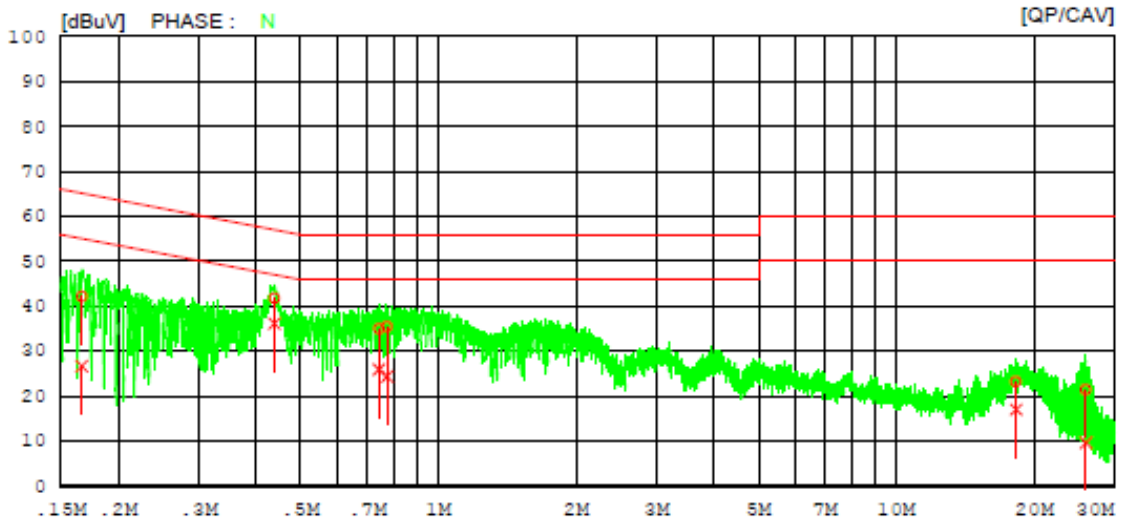
Date 2023-03-24

Order No.
Model No. PM560
Serial No.
Test Condition WLAN 2.4G

Reference No.
Power Supply
Temp/Humi. 21 °C / 41 %
Operator S.M.Gil

Memo b_2462

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



AC Power-Line Conducted Emissions (List)

Results of Conducted Emission

DTNC

Date 2023-03-24

| | | | |
|----------------|-----------|---------------|--------------|
| Order No. | | Reference No. | |
| Model No. | PM560 | Power Supply | |
| Serial No. | | Temp/Humi. | 21 'C / 41 % |
| Test Condition | WLAN 2.4G | Operator | S.M.Gil |

Memo b_2462

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

| NO | FREQ [MHz] | READING | | C.FACTOR [dB] | RESULT | | LIMIT | | MARGIN | | PHASE |
|----|---------------|--------------|---------------|------------------|--------------|---------------|--------------|---------------|--------------|---------------|-------|
| | | QP [dBuV] | CAV [dBuV] | | QP [dBuV] | CAV [dBuV] | QP [dBuV] | CAV [dBuV] | QP [dBuV] | CAV [dBuV] | |
| 1 | 0.16671 | 32.23 | 16.66 | 10.00 | 42.23 | 26.66 | 65.12 | 55.12 | 22.89 | 28.46 | N |
| 2 | 0.43893 | 31.81 | 26.21 | 10.00 | 41.81 | 36.21 | 57.08 | 47.08 | 15.27 | 10.87 | N |
| 3 | 0.74150 | 25.01 | 16.00 | 9.99 | 35.00 | 25.99 | 56.00 | 46.00 | 21.00 | 20.01 | N |
| 4 | 0.77286 | 25.52 | 14.40 | 9.99 | 35.51 | 24.39 | 56.00 | 46.00 | 20.49 | 21.61 | N |
| 5 | 18.26960 | 12.66 | 6.51 | 10.55 | 23.21 | 17.06 | 60.00 | 50.00 | 36.79 | 32.94 | N |
| 6 | 25.95120 | 10.87 | -1.00 | 10.61 | 21.48 | 9.61 | 60.00 | 50.00 | 38.52 | 40.39 | N |
| 7 | 0.42450 | 29.25 | 18.40 | 9.89 | 39.14 | 28.29 | 57.36 | 47.36 | 18.22 | 19.07 | L |
| 8 | 0.43846 | 30.86 | 19.78 | 9.90 | 40.76 | 29.68 | 57.09 | 47.09 | 16.33 | 17.41 | L |
| 9 | 0.70085 | 24.19 | 13.14 | 9.89 | 34.08 | 23.03 | 56.00 | 46.00 | 21.92 | 22.97 | L |
| 10 | 0.85392 | 25.41 | 15.02 | 9.90 | 35.31 | 24.92 | 56.00 | 46.00 | 20.69 | 21.08 | L |
| 11 | 19.44200 | 17.66 | 5.73 | 10.35 | 28.01 | 16.08 | 60.00 | 50.00 | 31.99 | 33.92 | L |
| 12 | 26.30940 | 17.72 | 1.07 | 10.36 | 28.08 | 11.43 | 60.00 | 50.00 | 31.92 | 38.57 | L |

5.7. Occupied Bandwidth

■ Test Requirements, RSS-Gen [6.7]

When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99 % emission bandwidth, as calculated or measured.

5.7.1. Test Setup

Refer to the APPENDIX I.

5.7.2. Test Procedures

The 99 % power bandwidth was measured with a calibrated spectrum analyzer.

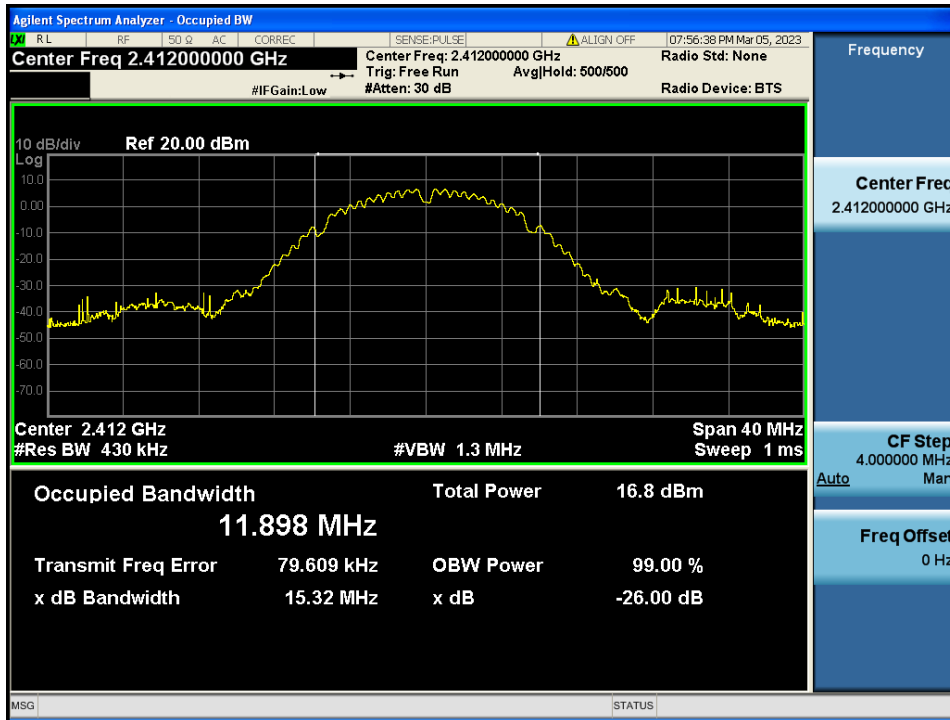
The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately $3 \times$ RBW.

5.7.3. Test Results

| Test Mode | Frequency | Test Results[MHz] | |
|-----------|-----------|-------------------|-------|
| | | ANT 1 | ANT 2 |
| TM1 | 2 412 | 11.90 | 11.94 |
| | 2 437 | 11.43 | 11.34 |
| | 2 462 | 11.52 | 11.39 |
| TM 2 | 2 412 | 17.16 | 16.89 |
| | 2 437 | 17.20 | 16.92 |
| | 2 462 | 17.14 | 16.93 |
| TM 3 | 2 412 | 18.19 | 17.93 |
| | 2 437 | 18.29 | 17.96 |
| | 2 462 | 18.23 | 17.94 |

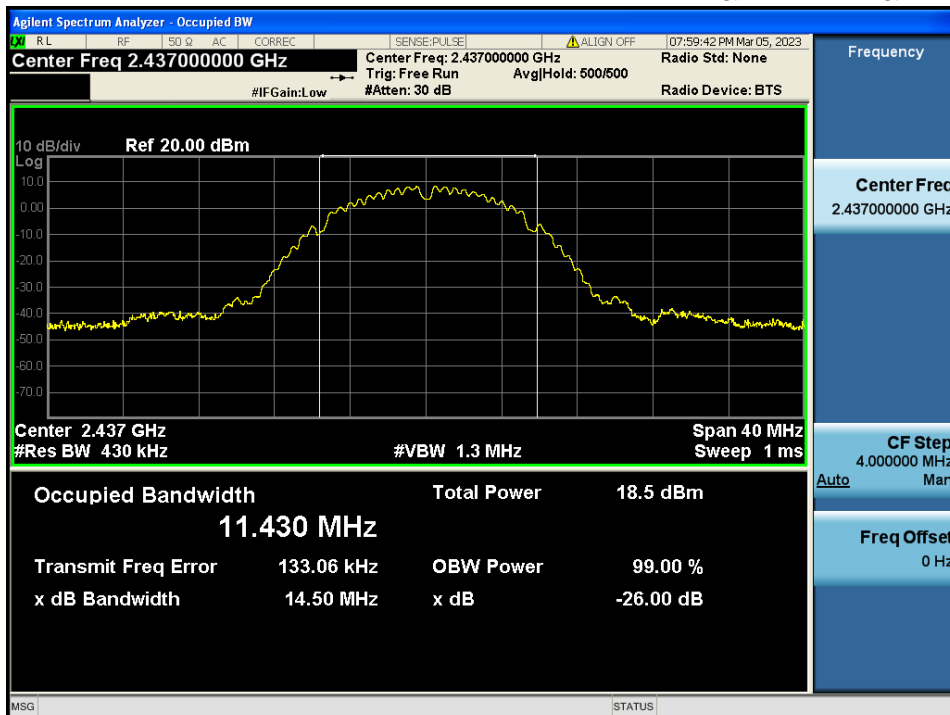
6 dB Bandwidth

TM 1 & ANT 1 & 2 412



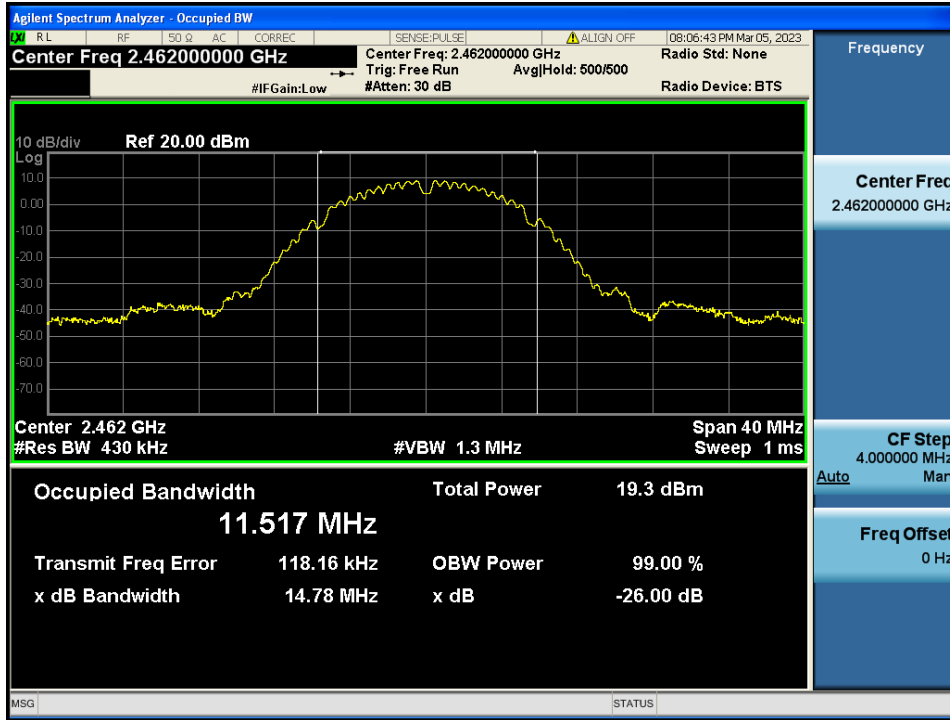
6 dB Bandwidth

TM 1 & ANT 1 & 2 437



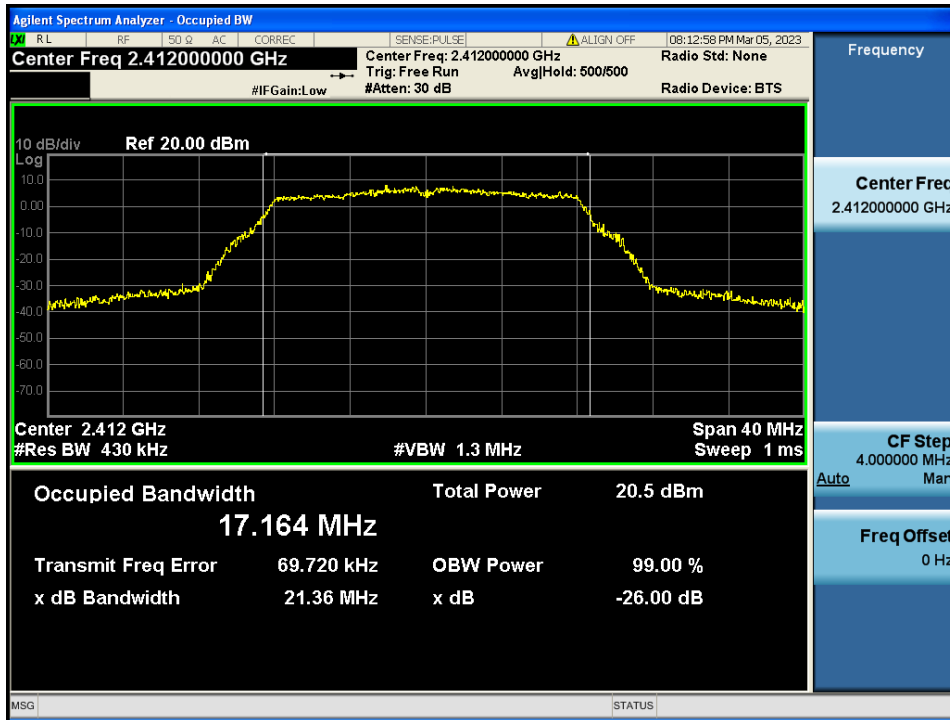
6 dB Bandwidth

TM 1 & ANT 1 & 2 462



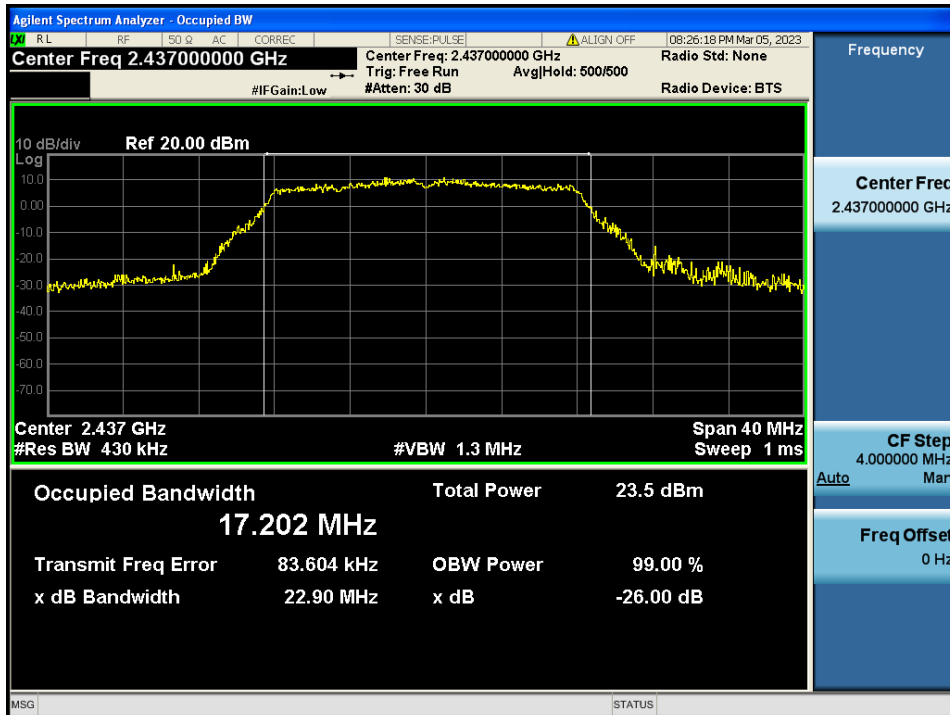
6 dB Bandwidth

TM 2 & ANT 1 & 2 412



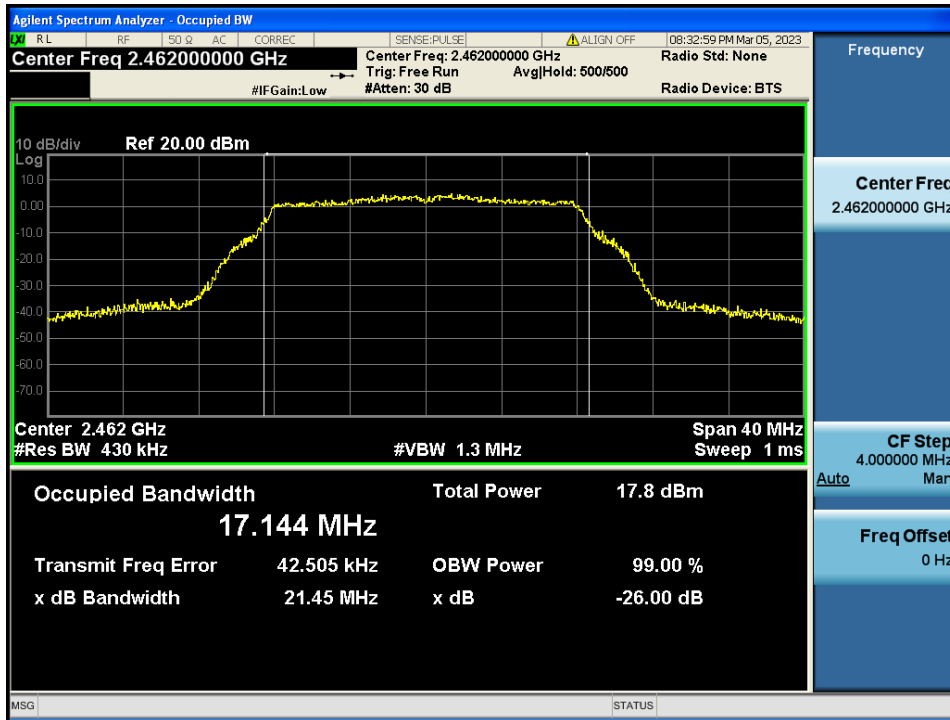
6 dB Bandwidth

TM 2 & ANT 1 & 2 437



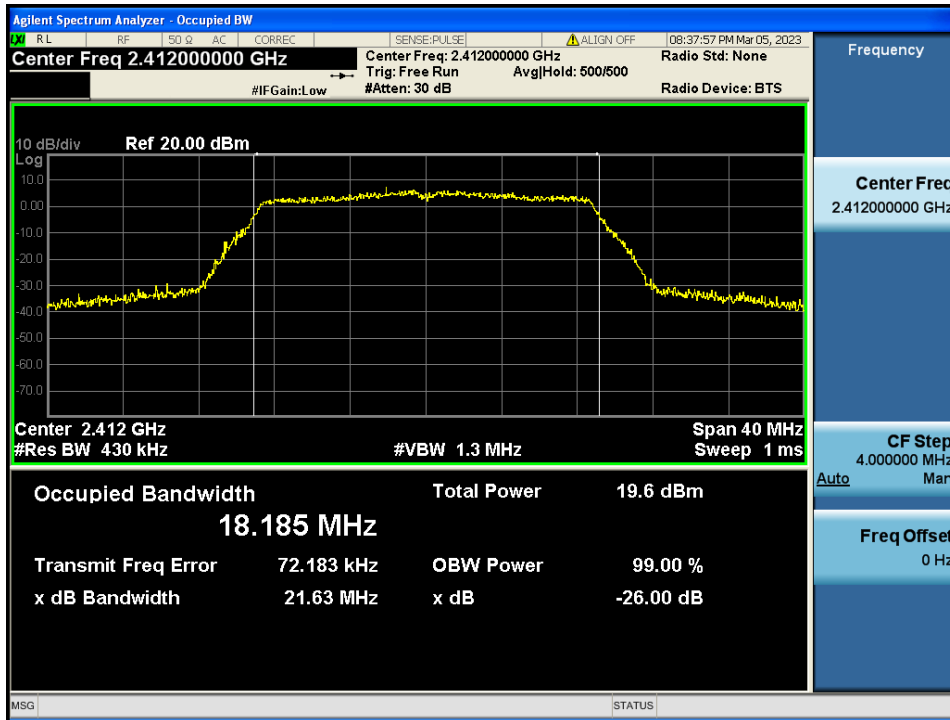
6 dB Bandwidth

TM 2 & ANT 1 & 2 462



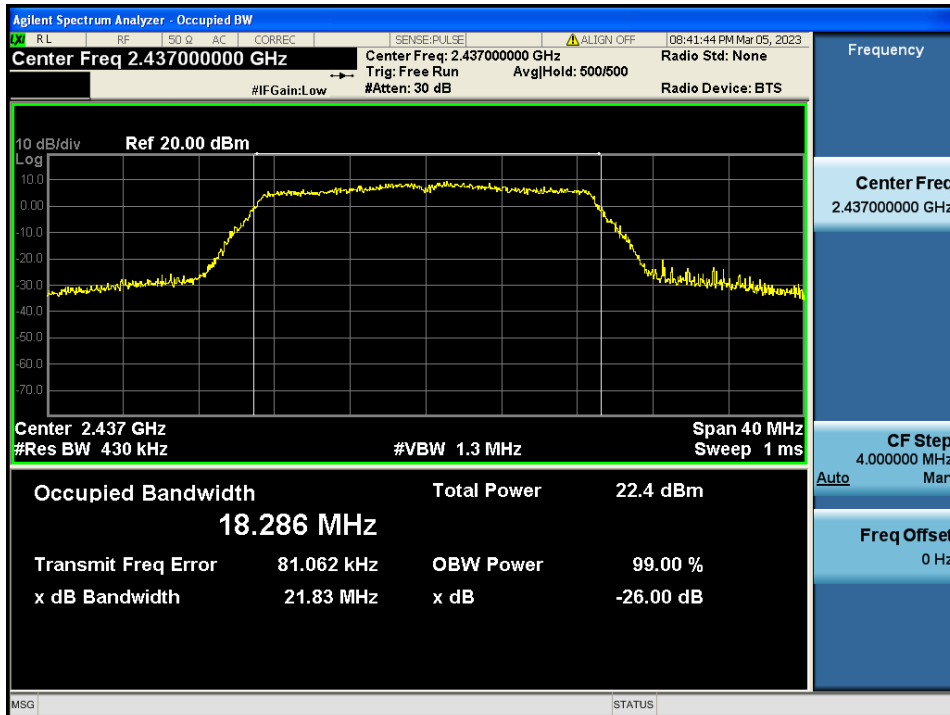
6 dB Bandwidth

TM 3 & ANT 1 & 2 412



6 dB Bandwidth

TM 3 & ANT 1 & 2 437



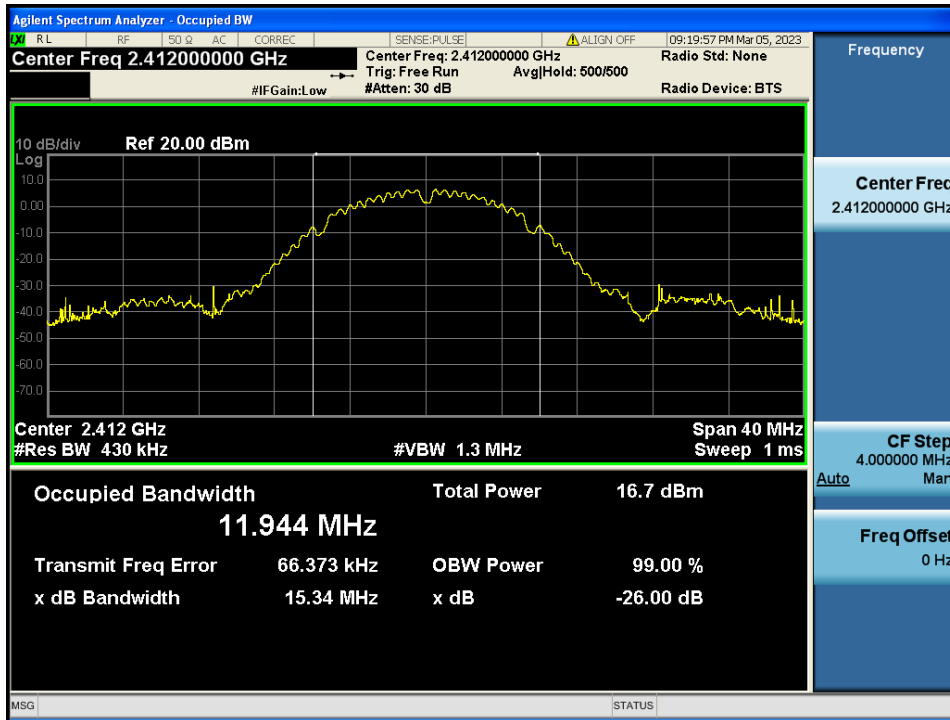
6 dB Bandwidth

TM 3 & ANT 1 & 2 462



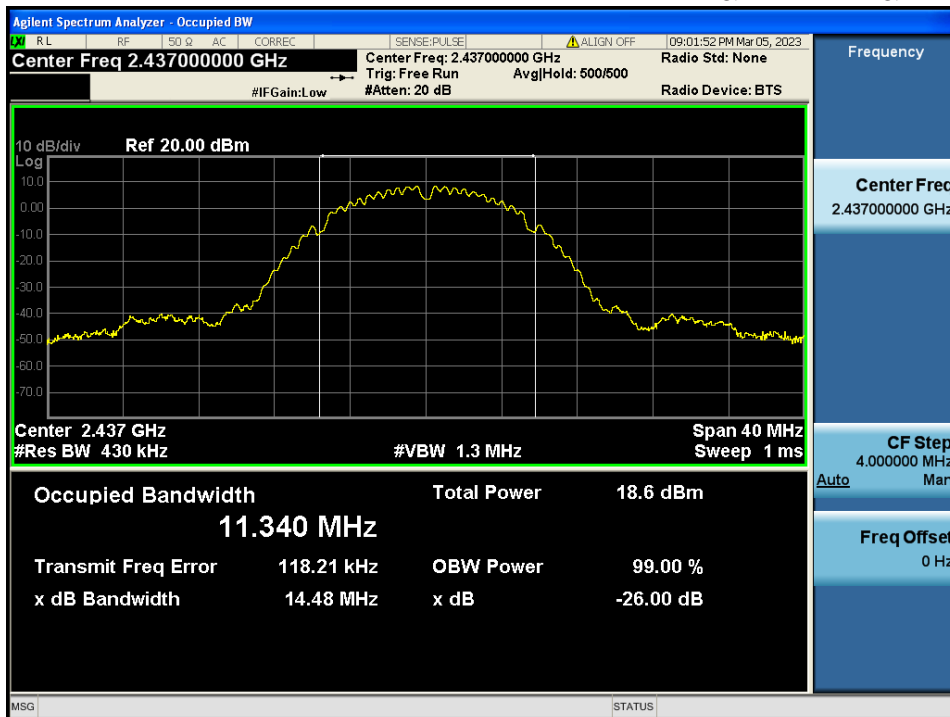
6 dB Bandwidth

TM 1 & ANT 2 & 2 412



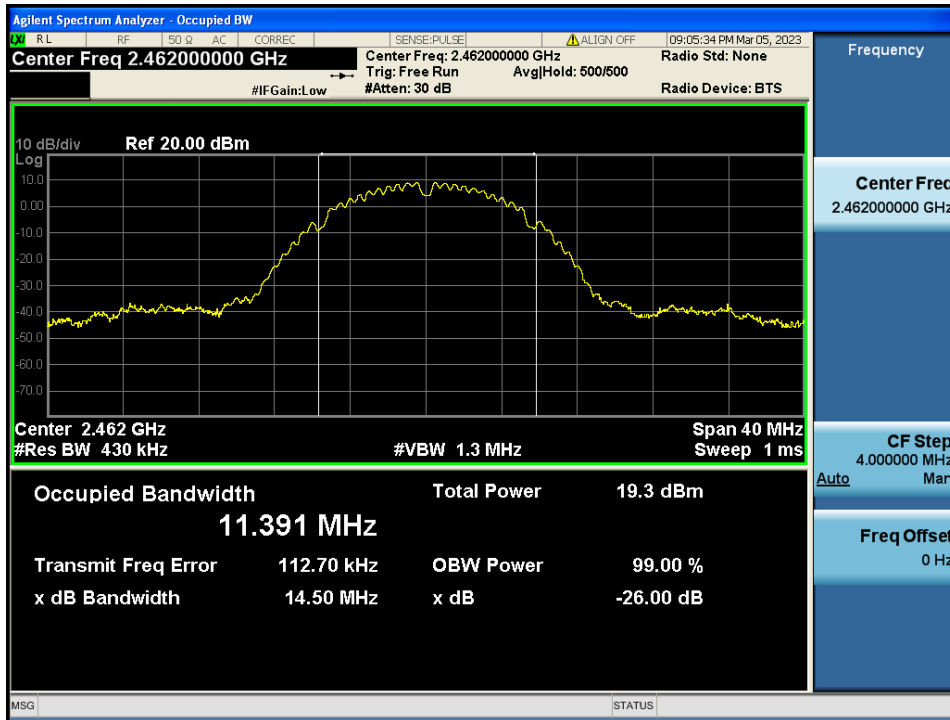
6 dB Bandwidth

TM 1 & ANT 2 & 2 437



6 dB Bandwidth

TM 1 & ANT 2 & 2 462



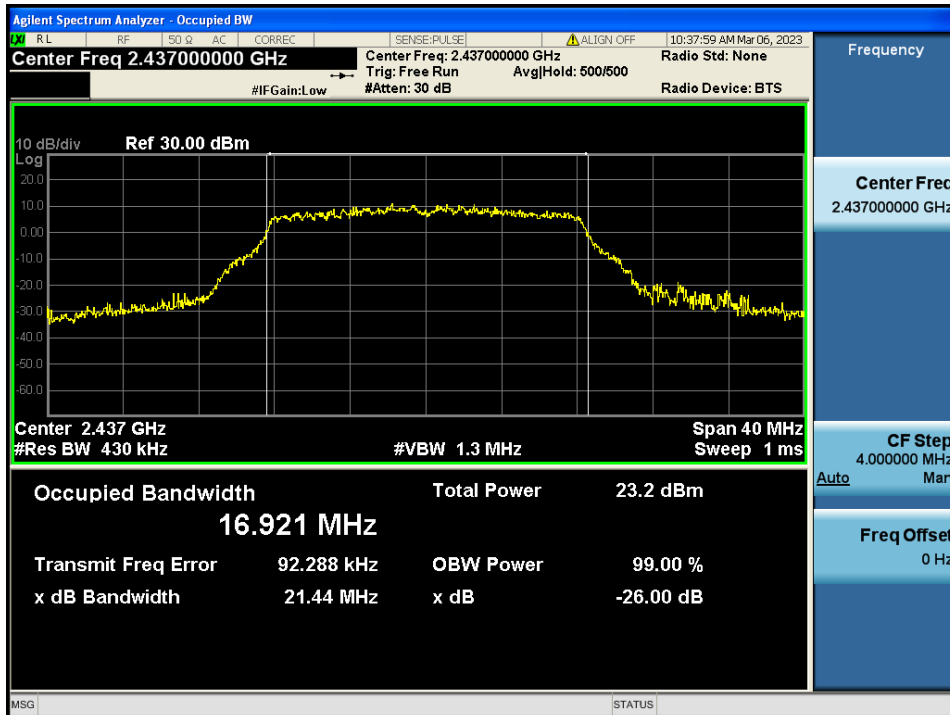
6 dB Bandwidth

TM 2 & ANT 2 & 2 412



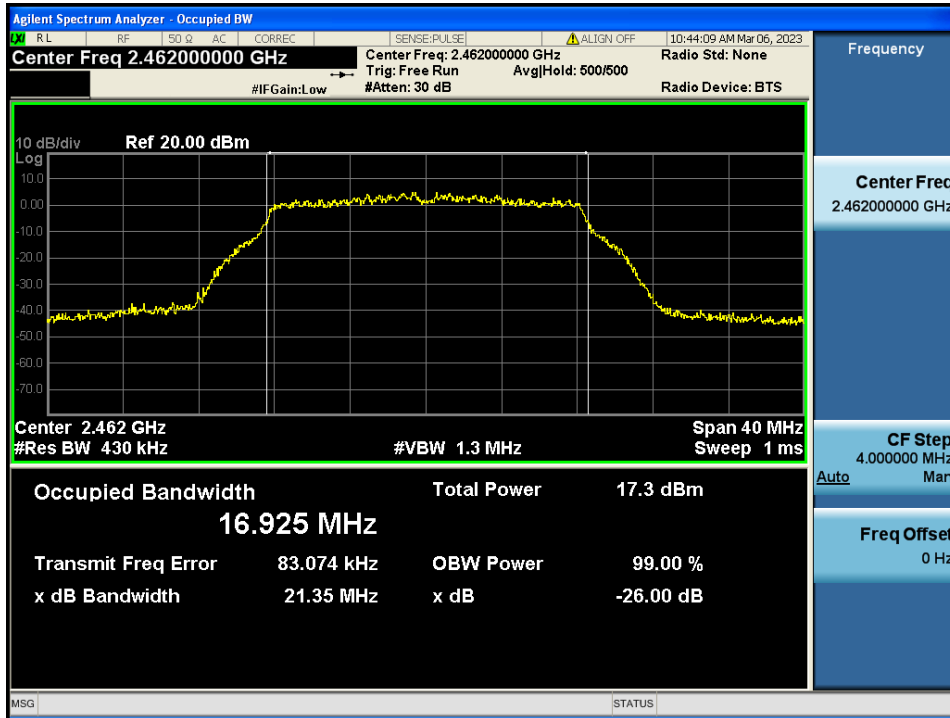
6 dB Bandwidth

TM 2 & ANT 2 & 2 437



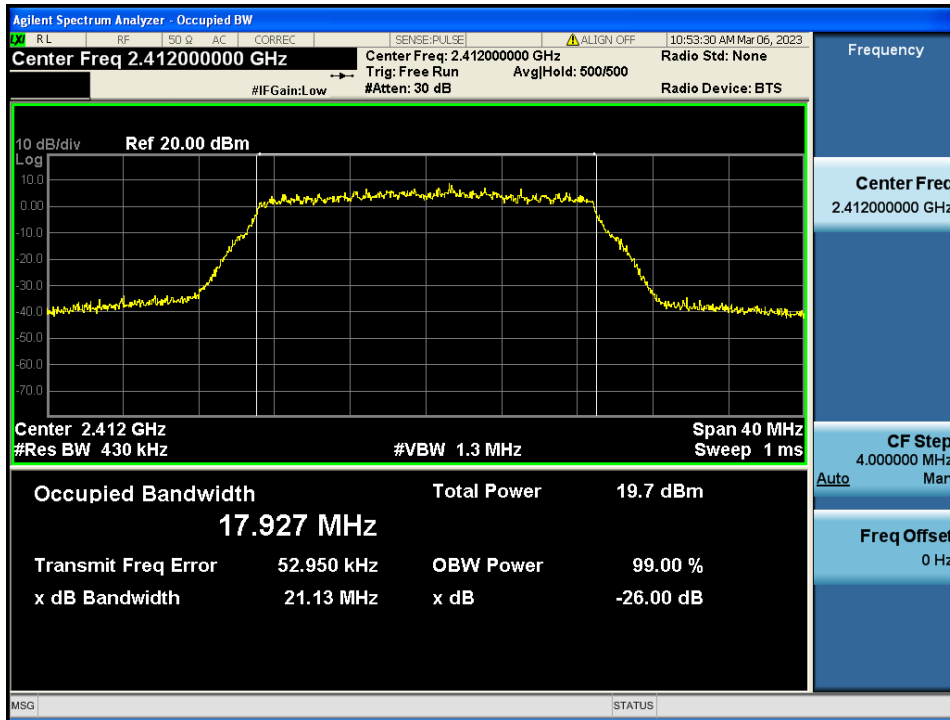
6 dB Bandwidth

TM 2 & ANT 2 & 2 462



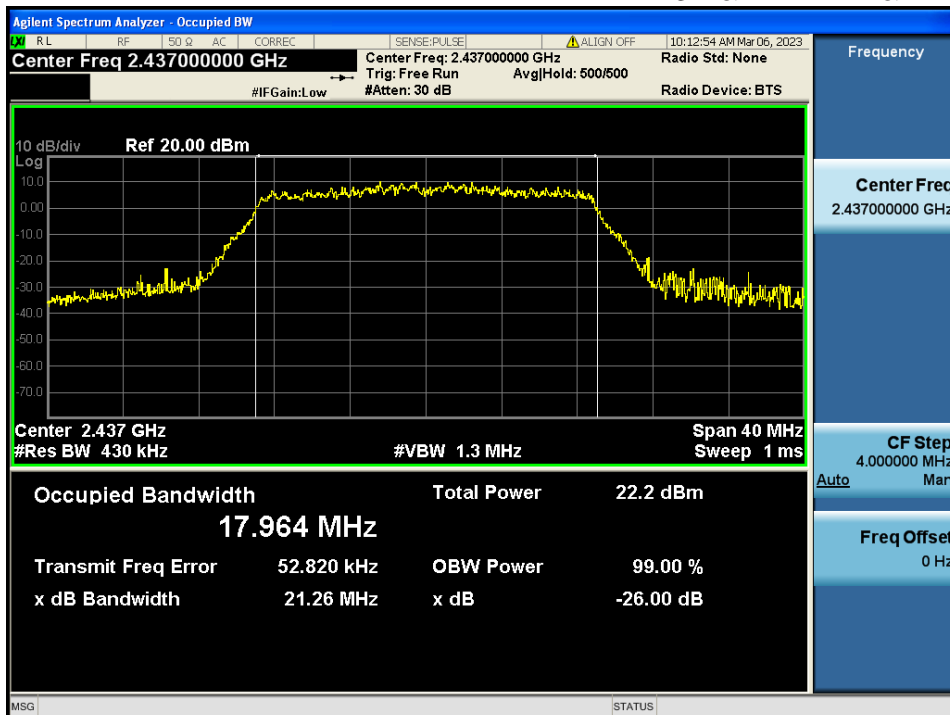
6 dB Bandwidth

TM 3 & ANT 2 & 2 412



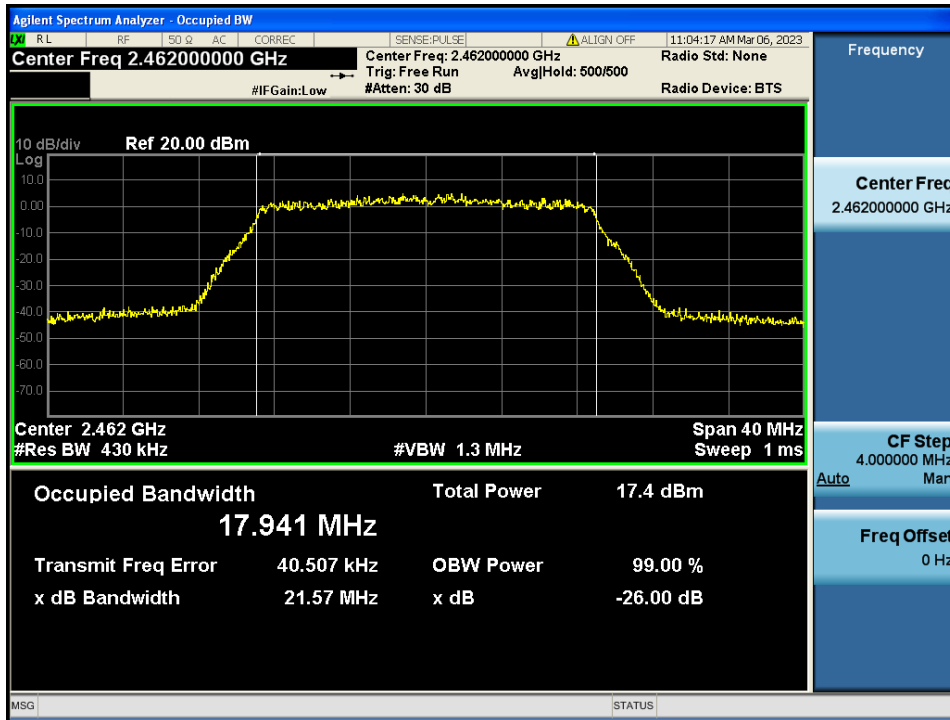
6 dB Bandwidth

TM 3 & ANT 2 & 2 437



6 dB Bandwidth

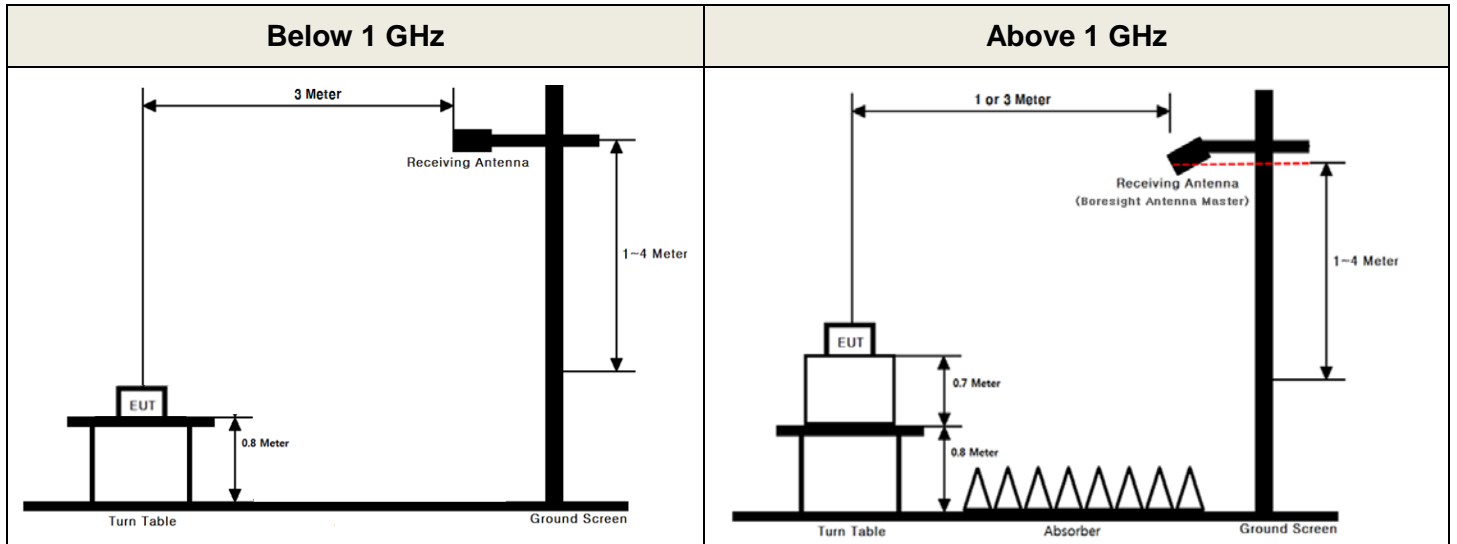
TM 3 & ANT 2 & 2 462



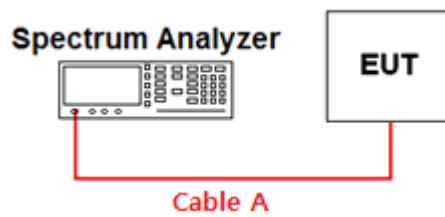
APPENDIX I

Test set up diagrams

▪ Radiated Measurement



▪ Conducted Measurement



APPENDIX II

Duty cycle plots

▪ Test Procedures

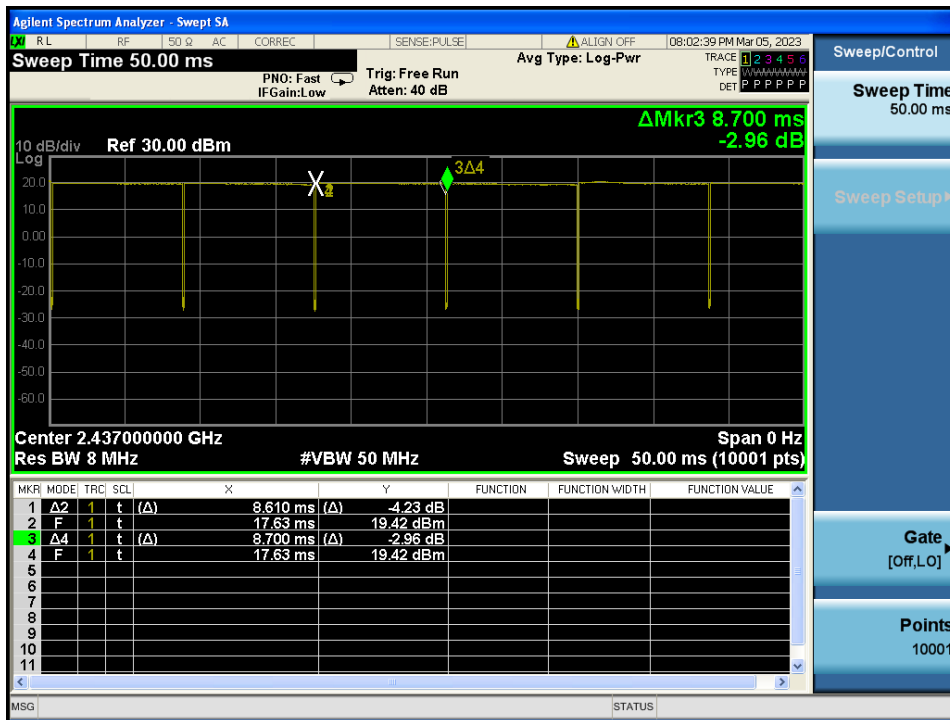
- KDB558074 D01v05r02 – Section 6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50 / T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

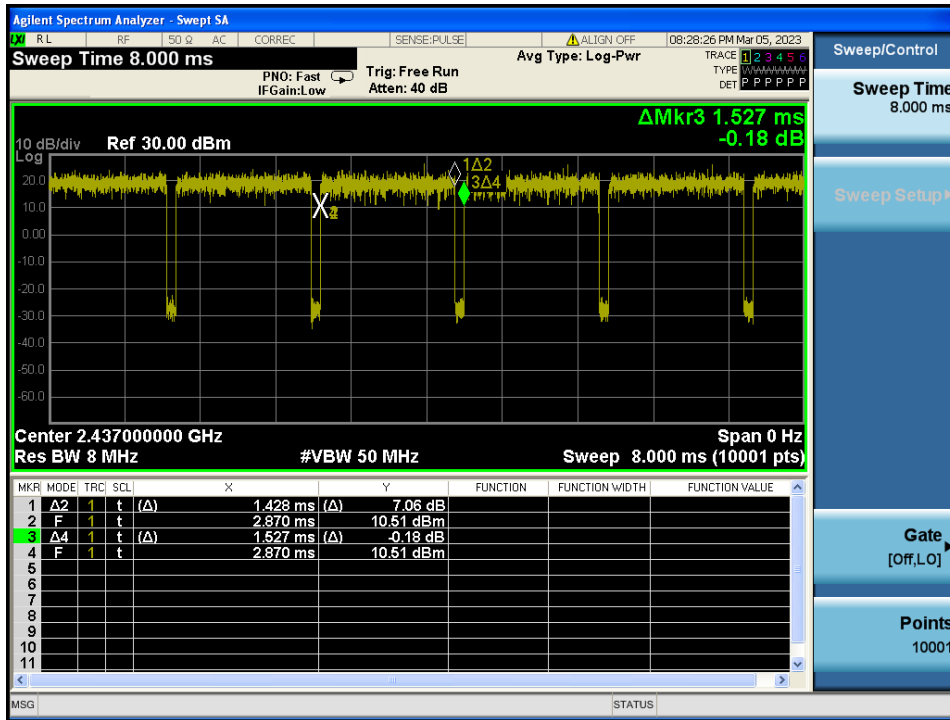
Duty Cycle

TM 1 & 2 437 MHz



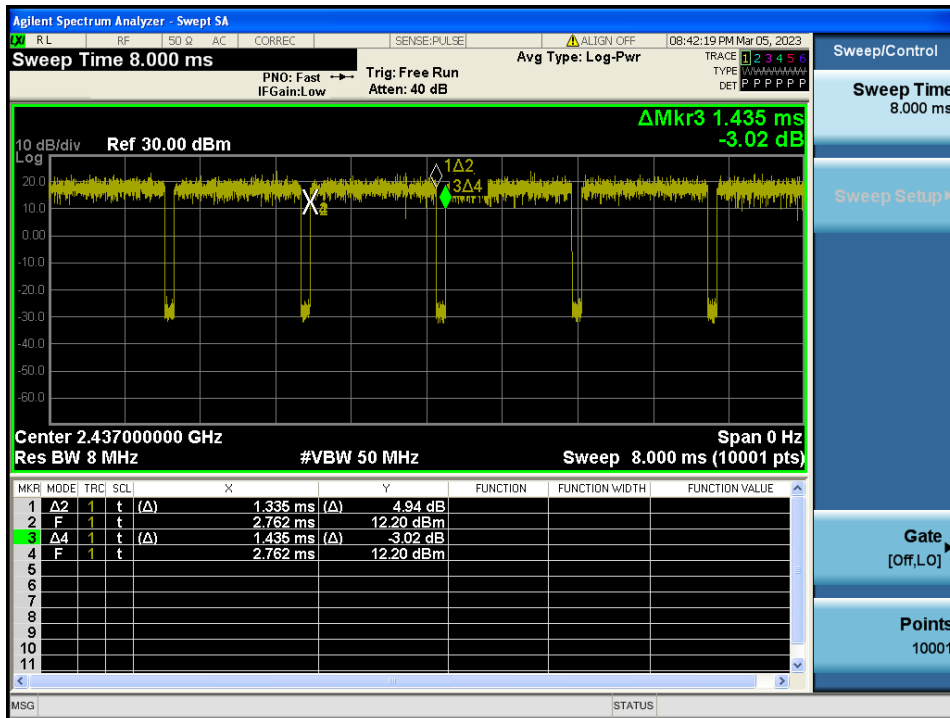
Duty Cycle

TM 2 & 2 437 MHz



Duty Cycle

TM 3 & 2 437 MHz

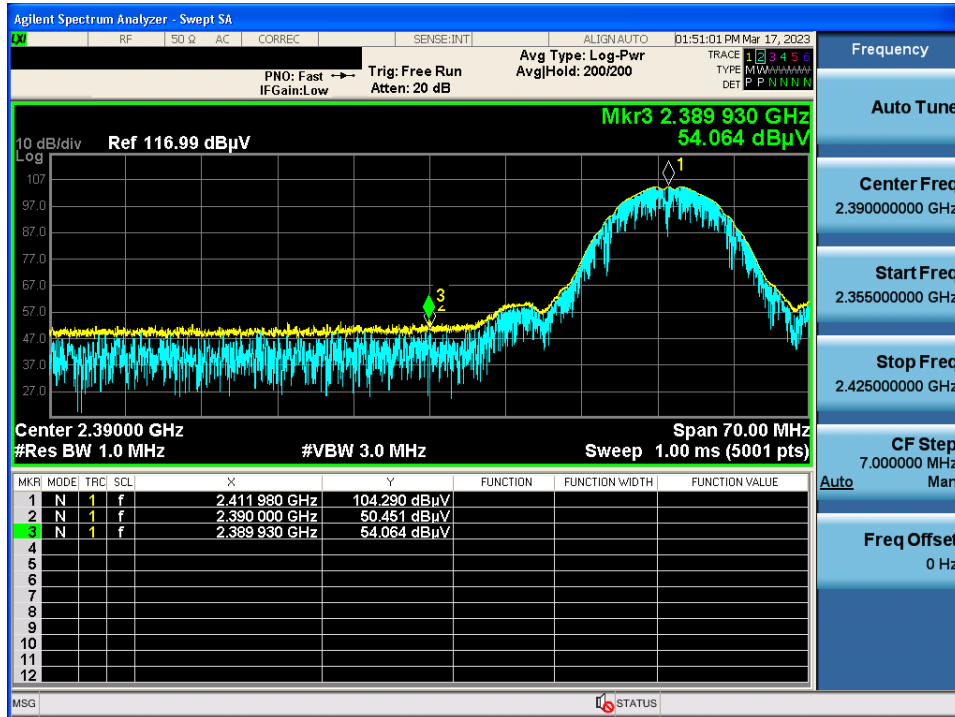


APPENDIX III

Unwanted Emissions (Radiated) Test Plot

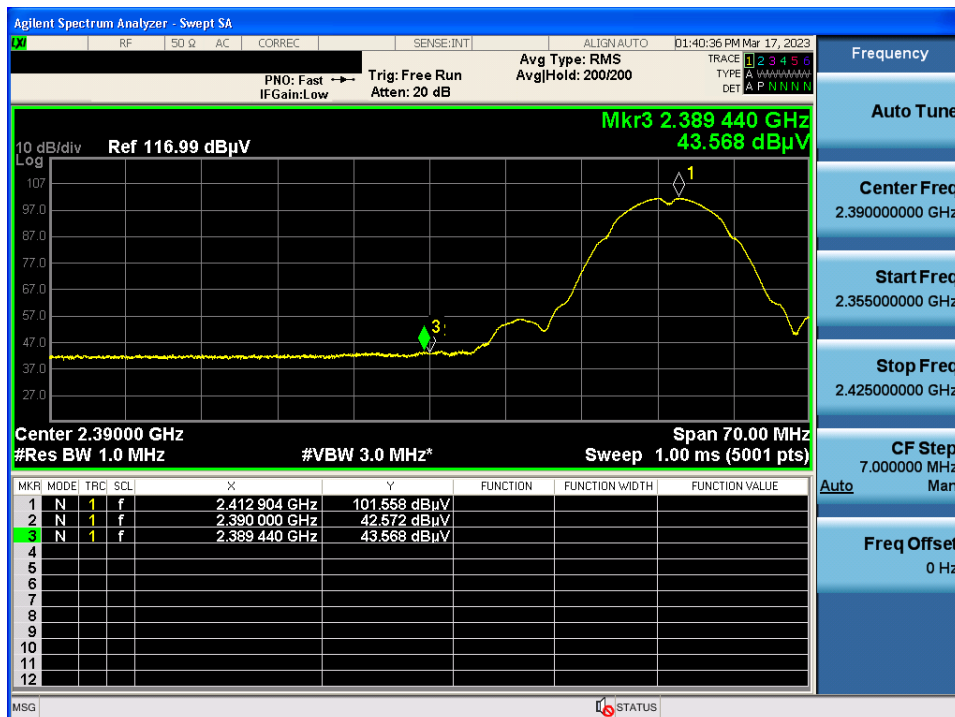
TM 1 & 2 412 & Z axis & Hor

Detector Mode : PK



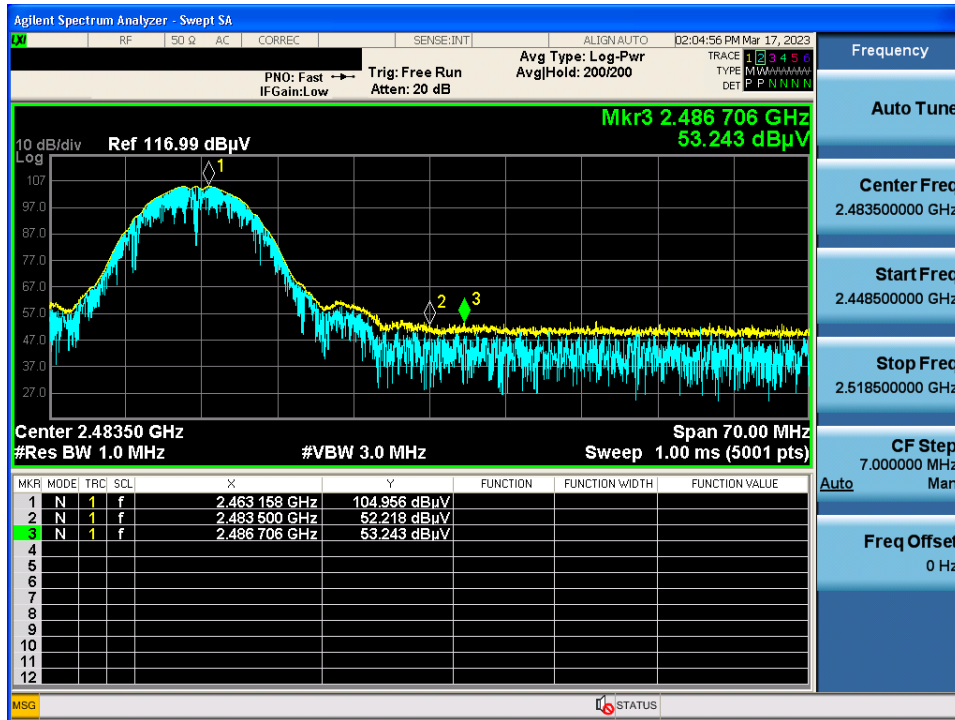
TM 1 & 2 412 & Z axis & Hor

Detector Mode : AV



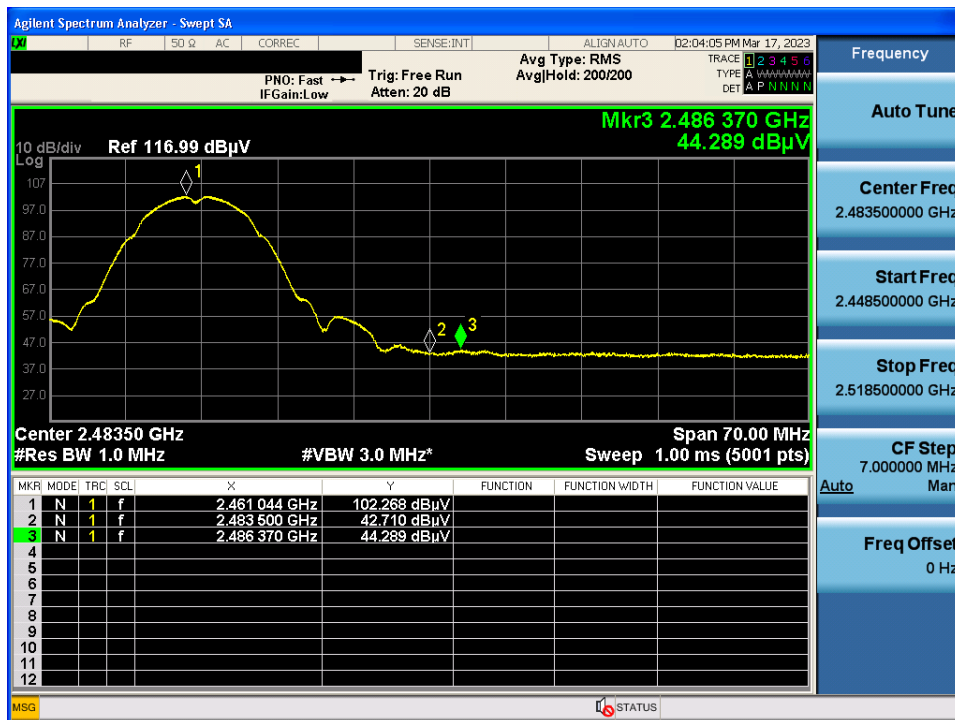
TM 1 & 2 462 & Z axis & Hor

Detector Mode : PK



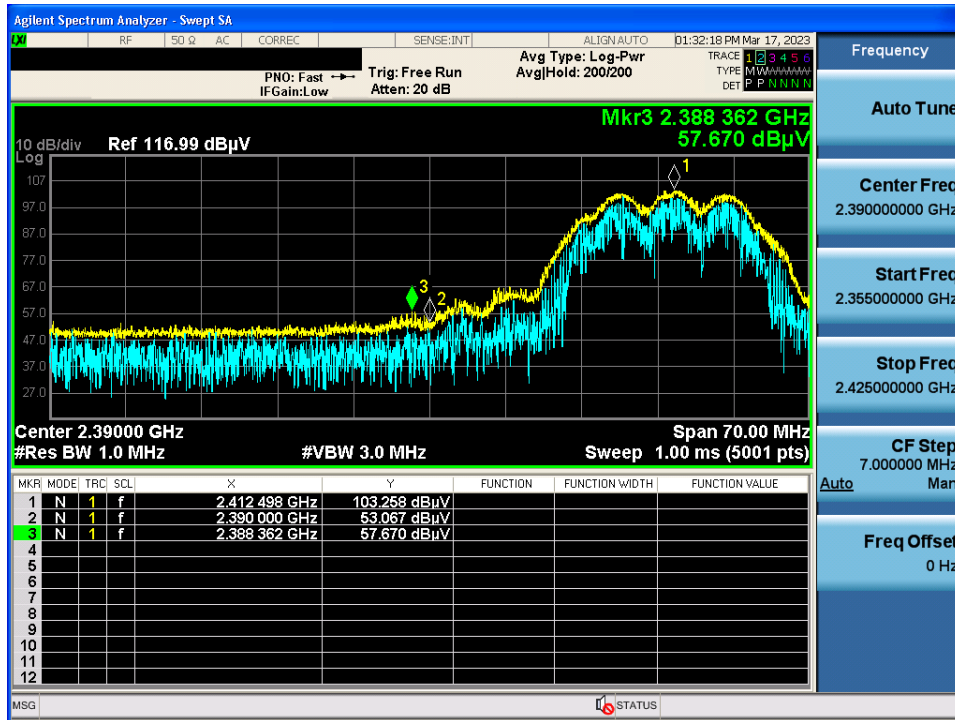
TM 1 & 2 462 & Z axis & Hor

Detector Mode : AV



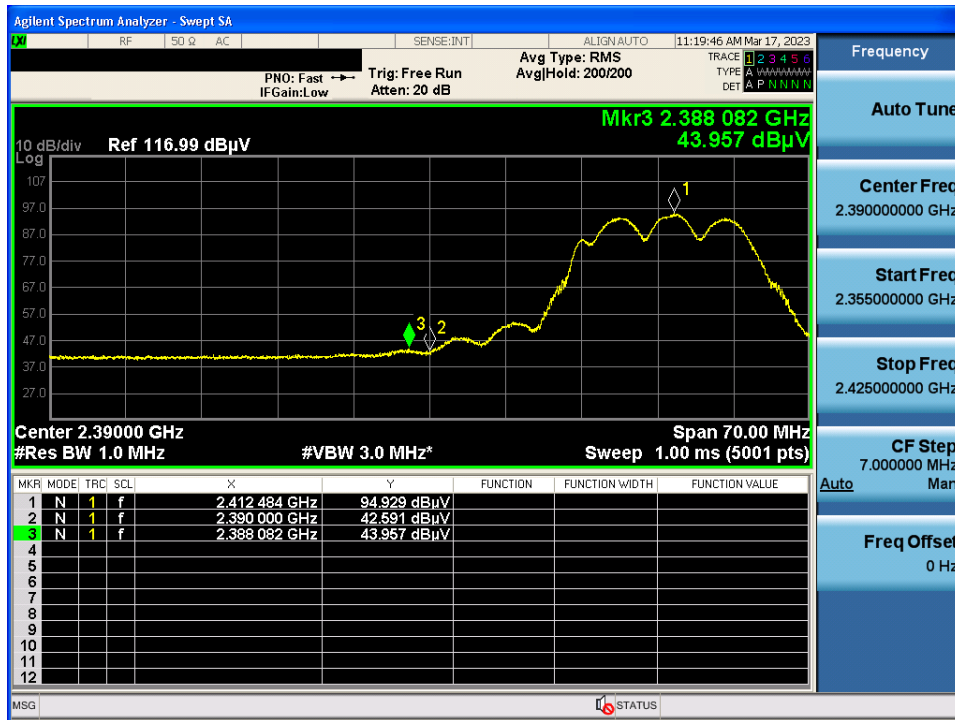
TM 2 & 2 412 & Z axis & Hor

Detector Mode : PK



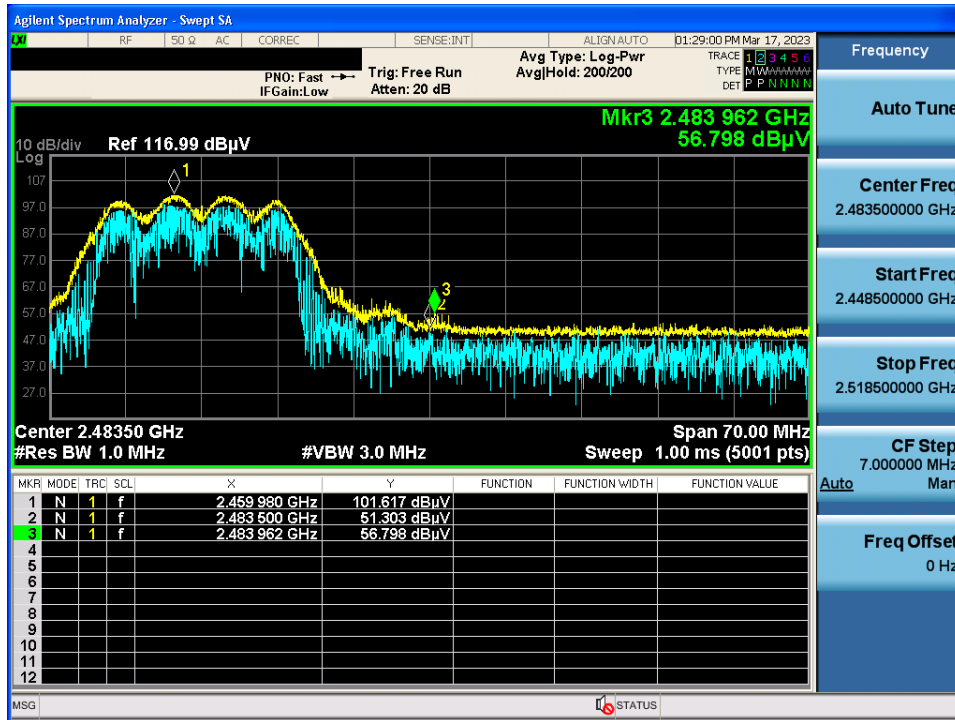
TM 2 & 2 412 & Z axis & Hor

Detector Mode : AV



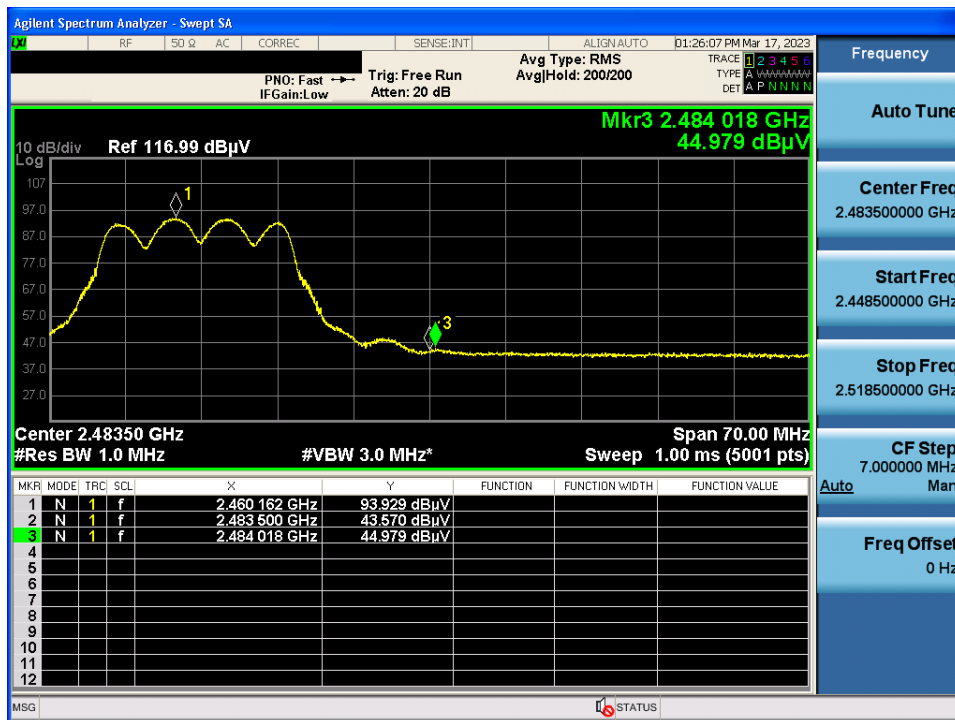
TM 2 & 2 462 & Z axis & Hor

Detector Mode : PK



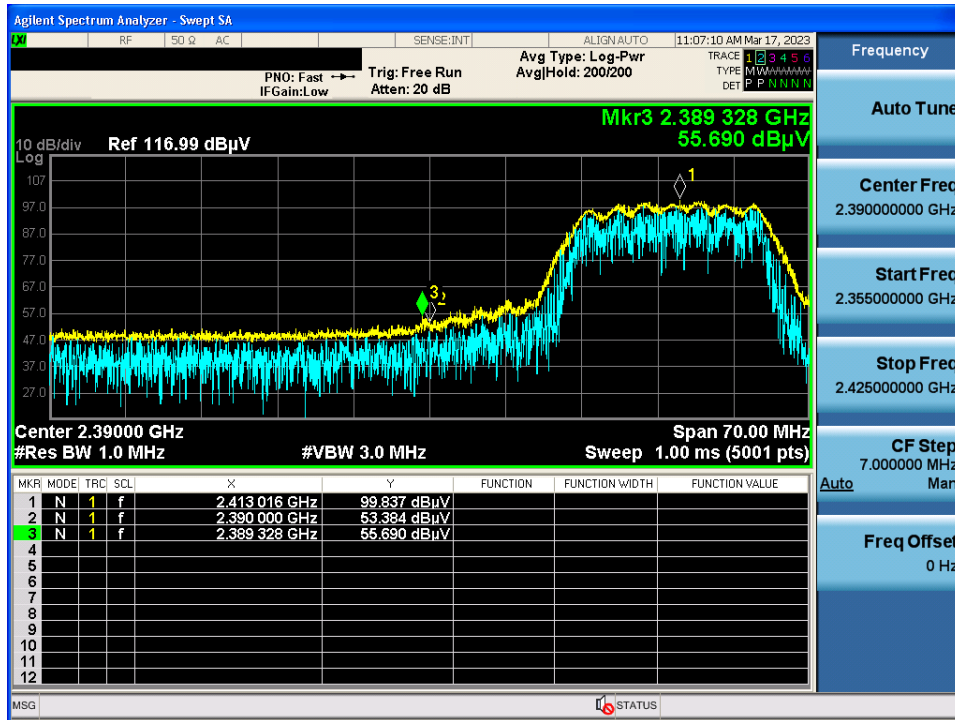
TM 2 & 2 462 & Z axis & Hor

Detector Mode : AV



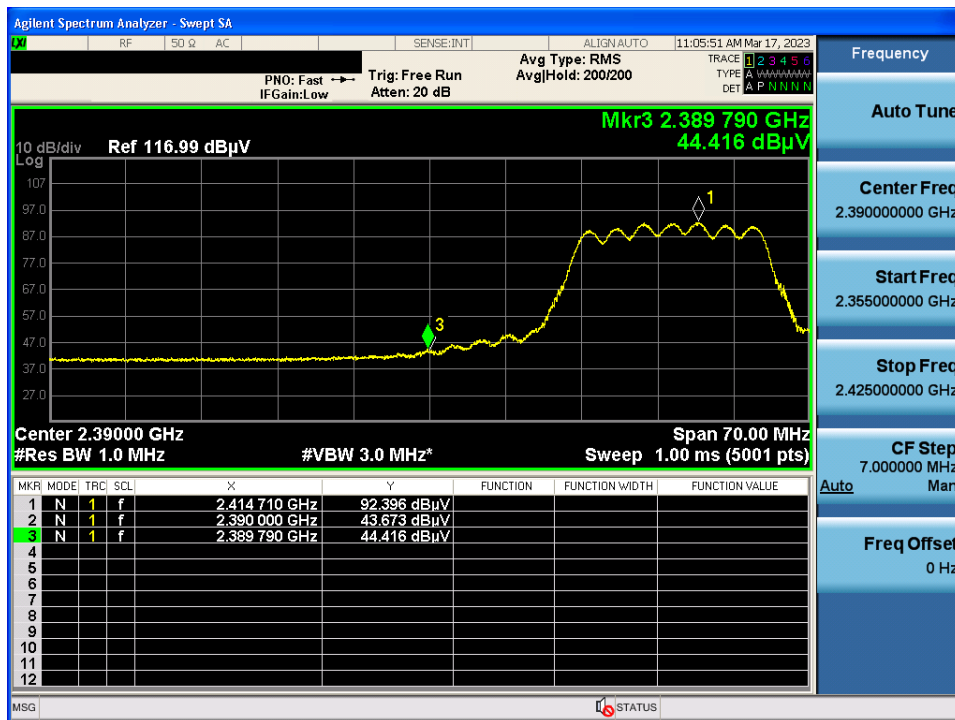
TM 3 & 2 412 & Z axis & Hor

Detector Mode : PK



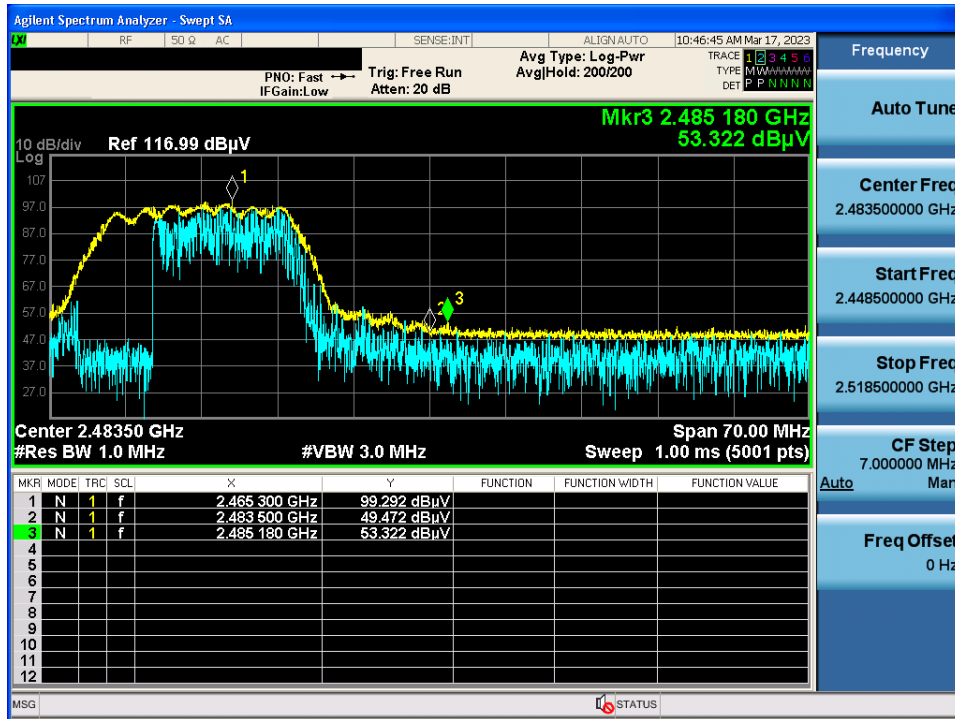
TM 3 & 2 412 & Z axis & Hor

Detector Mode : AV



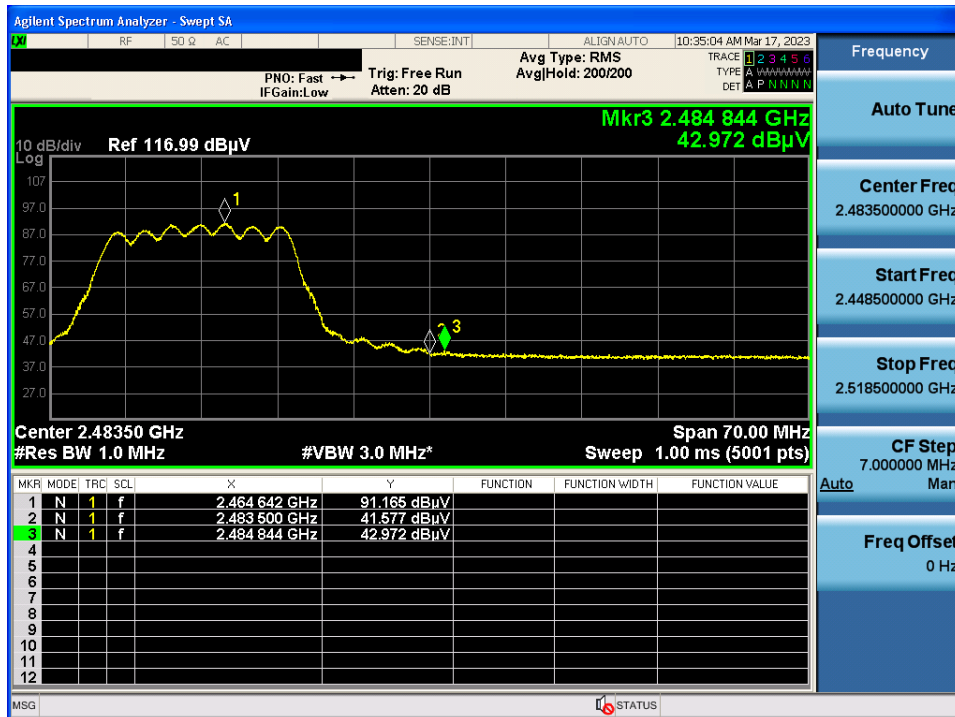
TM 3 & 2 462 & Z axis & Hor

Detector Mode : PK



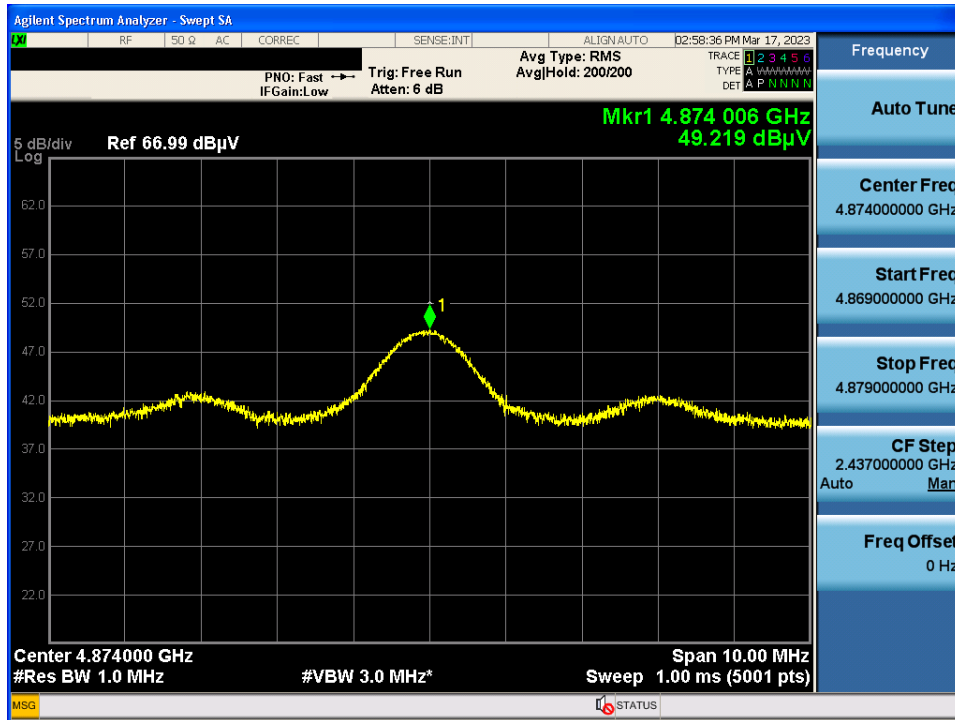
TM 3 & 2 462 & Z axis & Hor

Detector Mode : AV



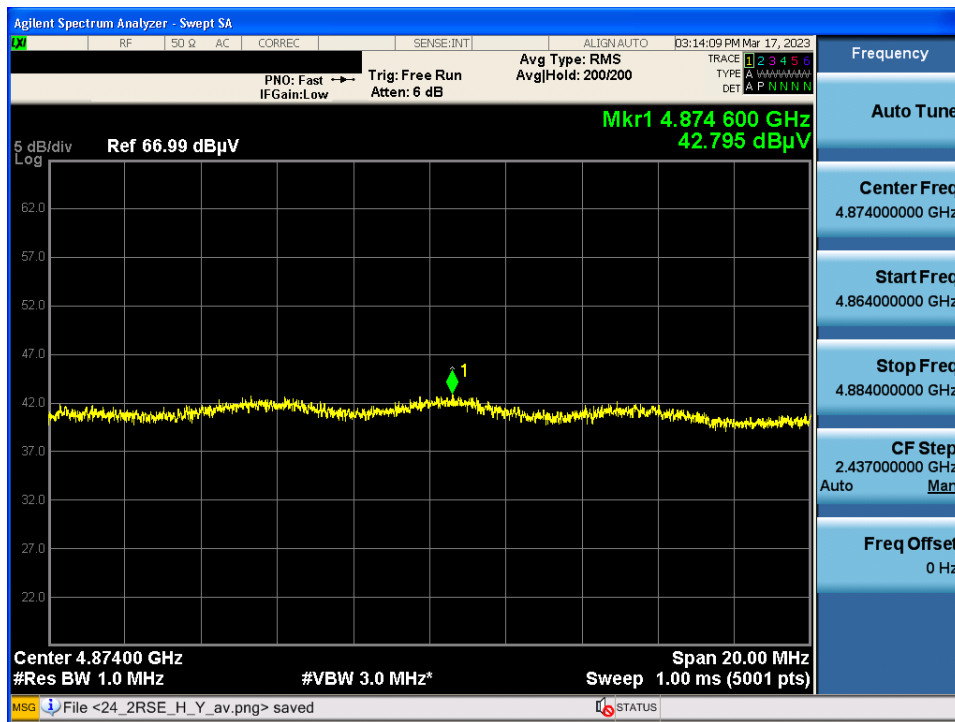
TM 1 & 2 437 & Y axis & Hor

Detector Mode : AV



TM 2 & 2 437 & Y axis & Hor

Detector Mode : AV



TM 3 & 2 437 & Y axis & Hor

Detector Mode : AV

