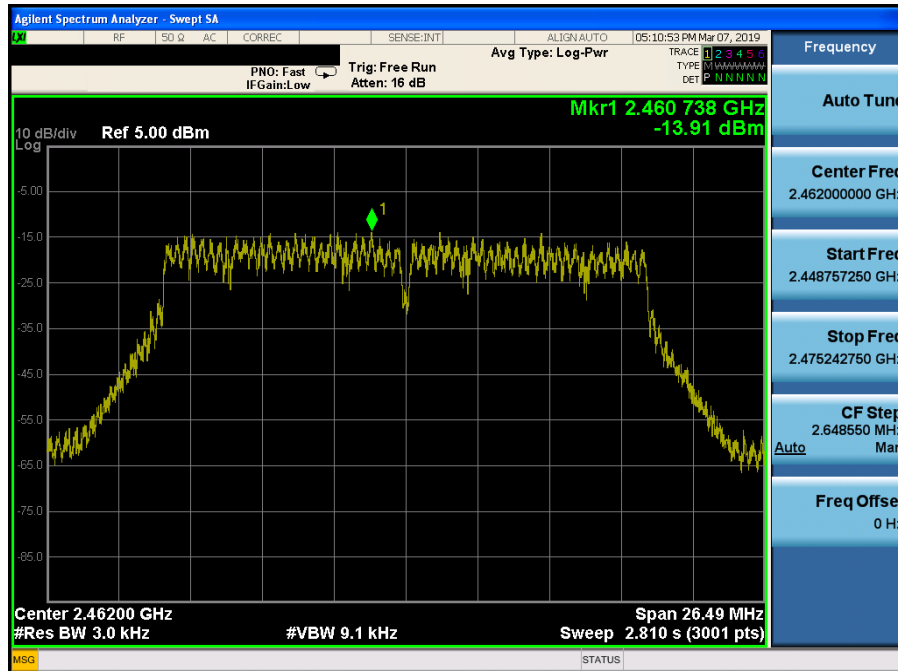


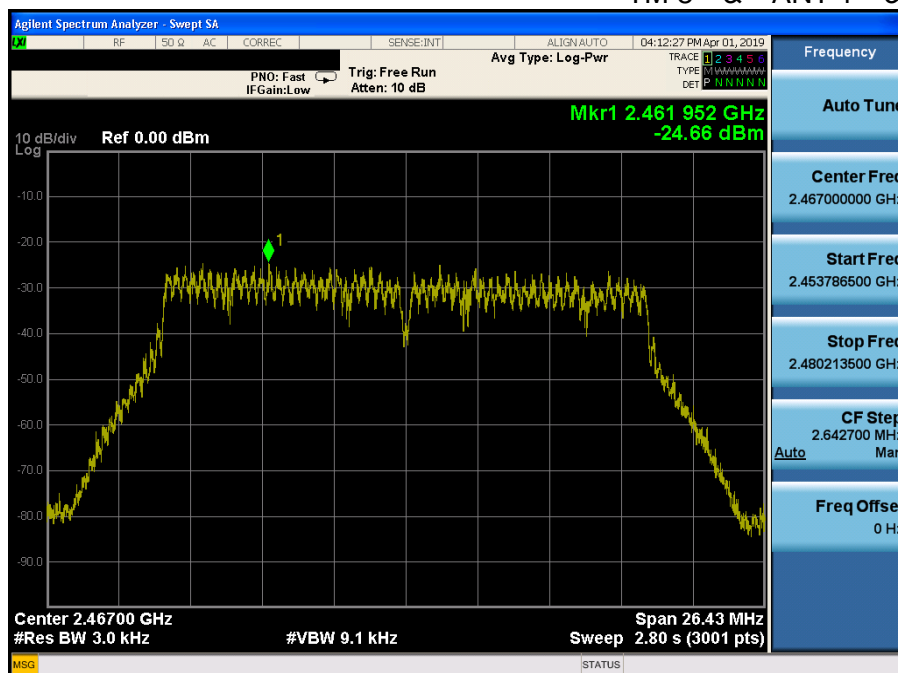
Maximum PPSD

TM 8 & ANT 1 & 2462



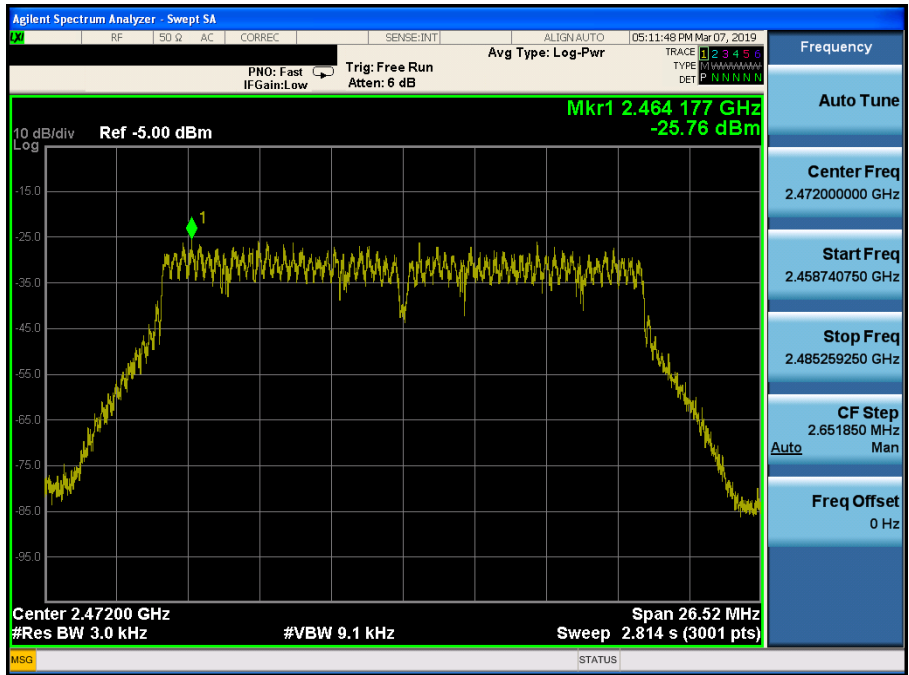
Maximum PPSD

TM 8 & ANT 1 & 2467



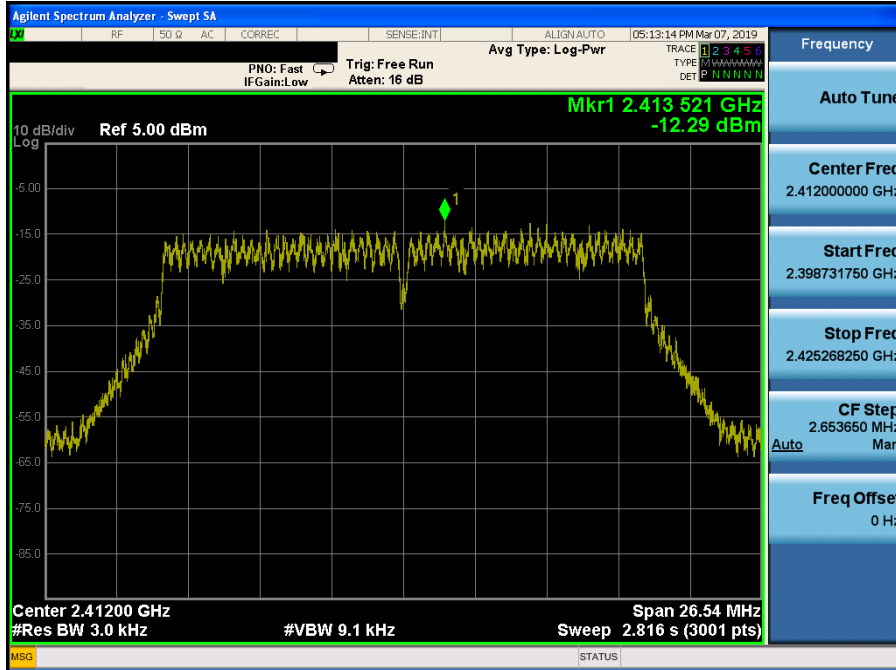
Maximum PPSD

TM 8 & ANT 1 & 2472



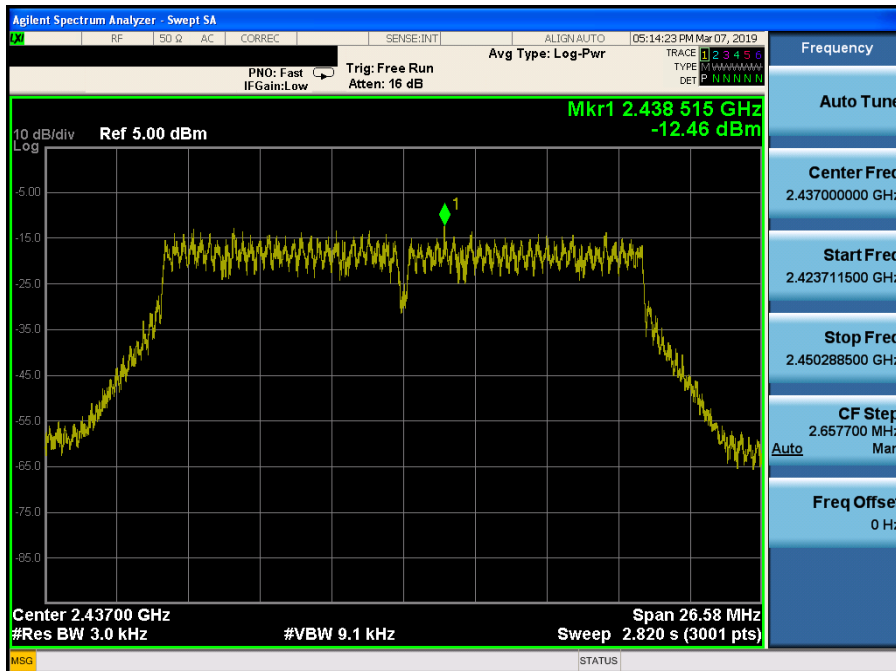
Maximum PPSD

TM 9 & ANT 1 & 2412



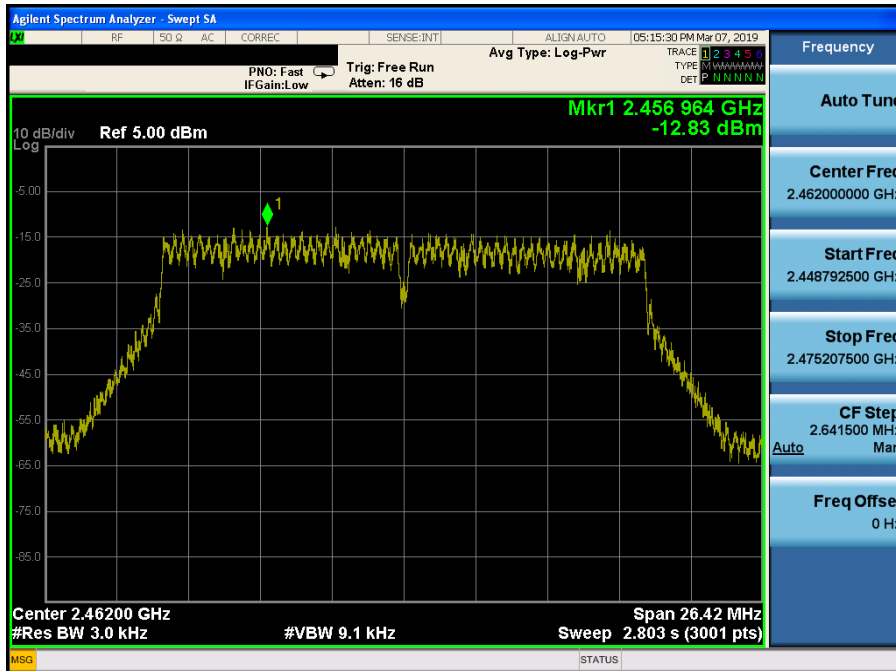
Maximum PPSD

TM 9 & ANT 1 & 2437



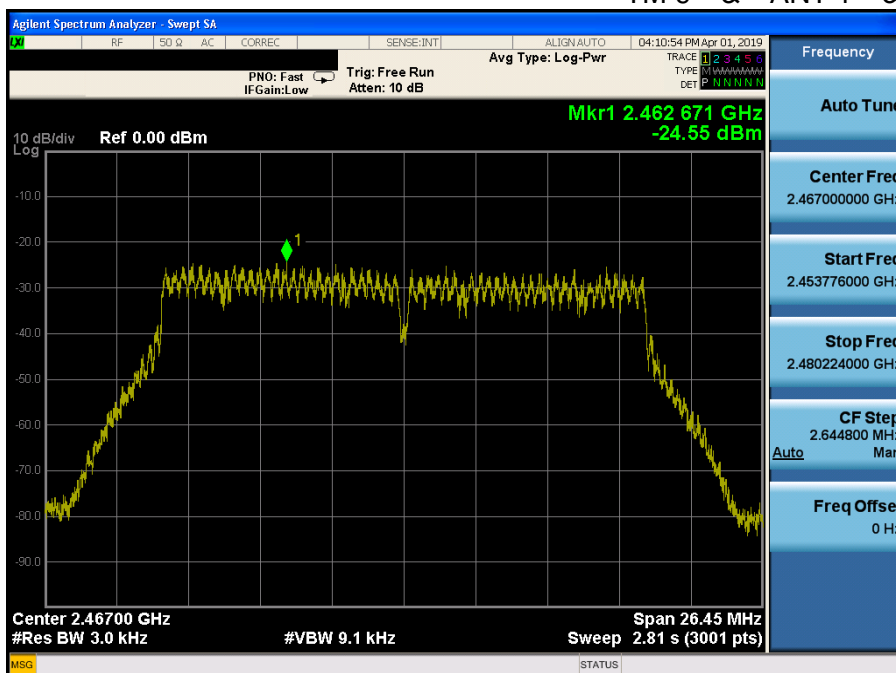
Maximum PPSD

TM 9 & ANT 1 & 2462



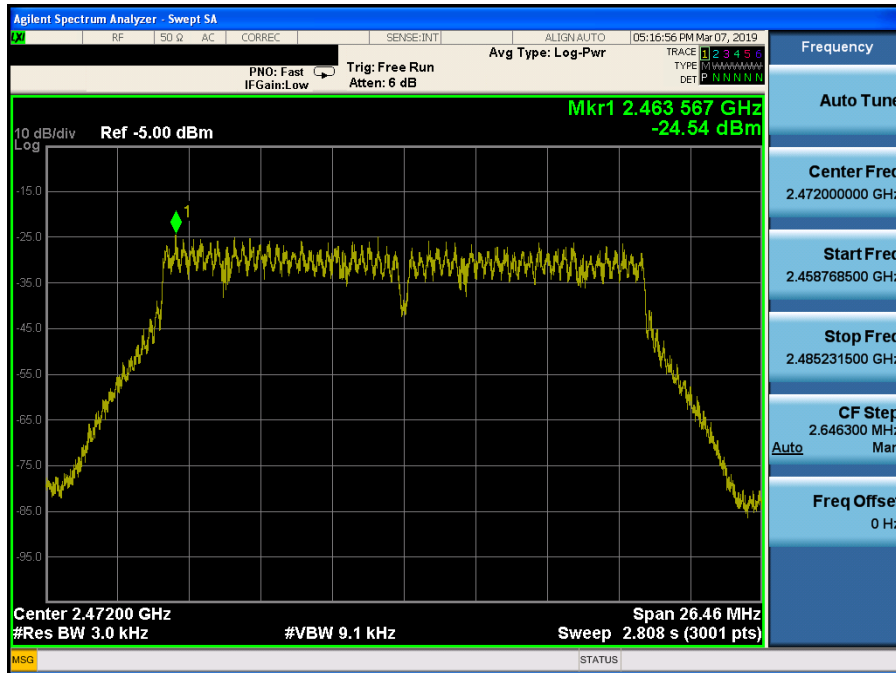
Maximum PPSD

TM 9 & ANT 1 & 2467



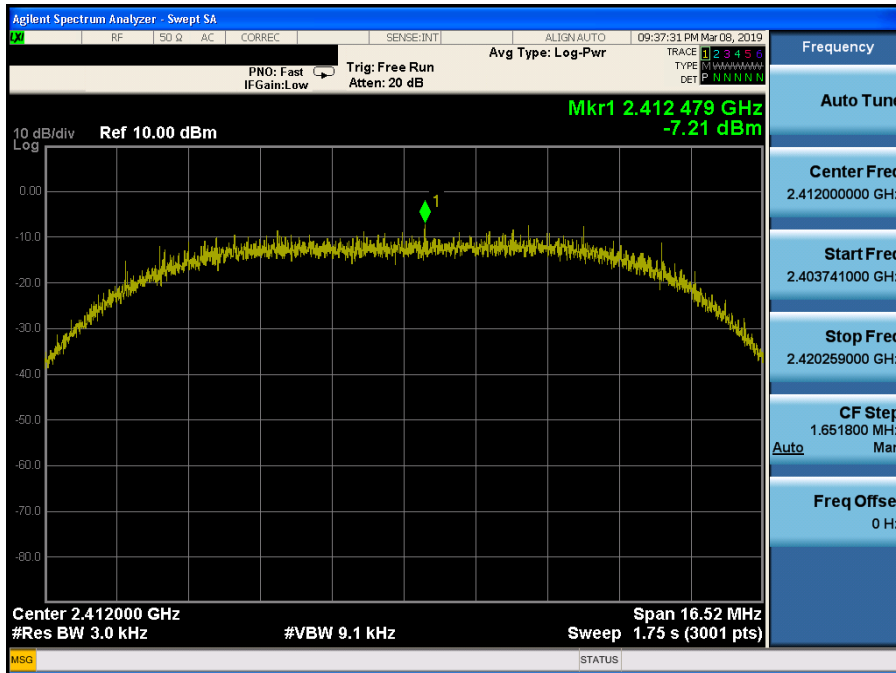
Maximum PPSD

TM 9 & ANT 1 & 2472



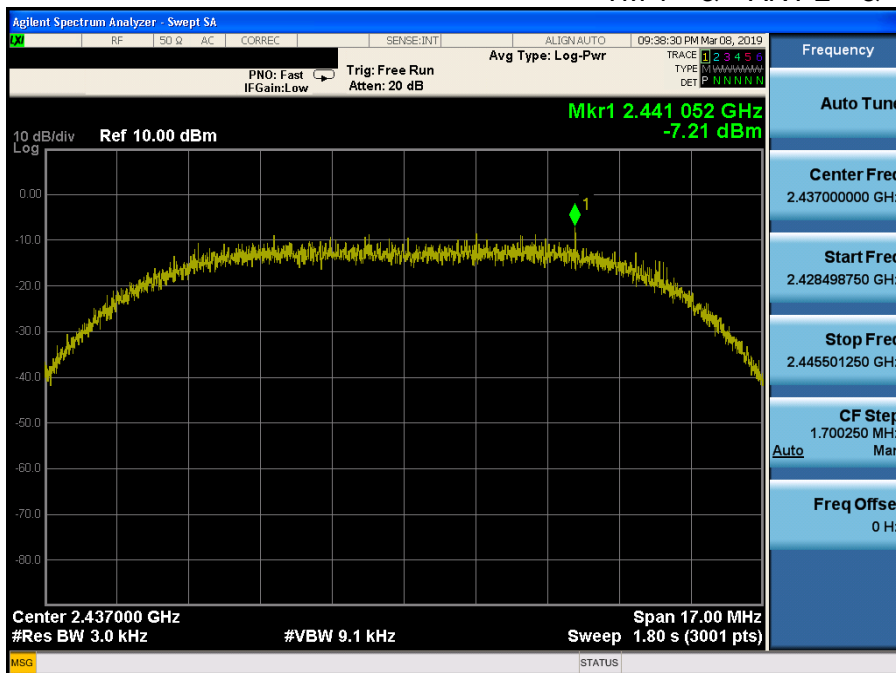
Maximum PPSD

TM 1 & ANT 2 & 2412



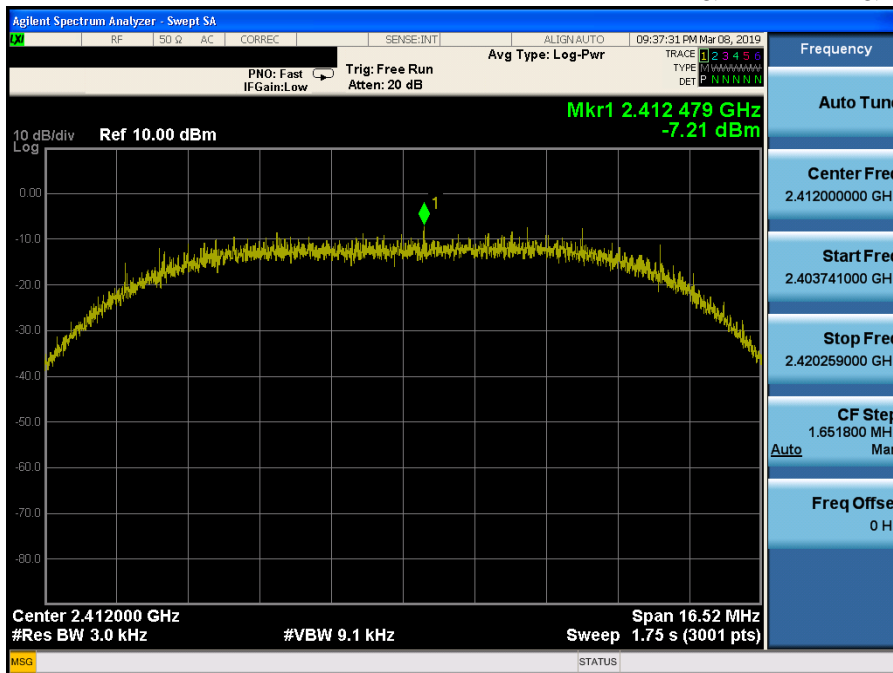
Maximum PPSD

TM 1 & ANT 2 & 2437



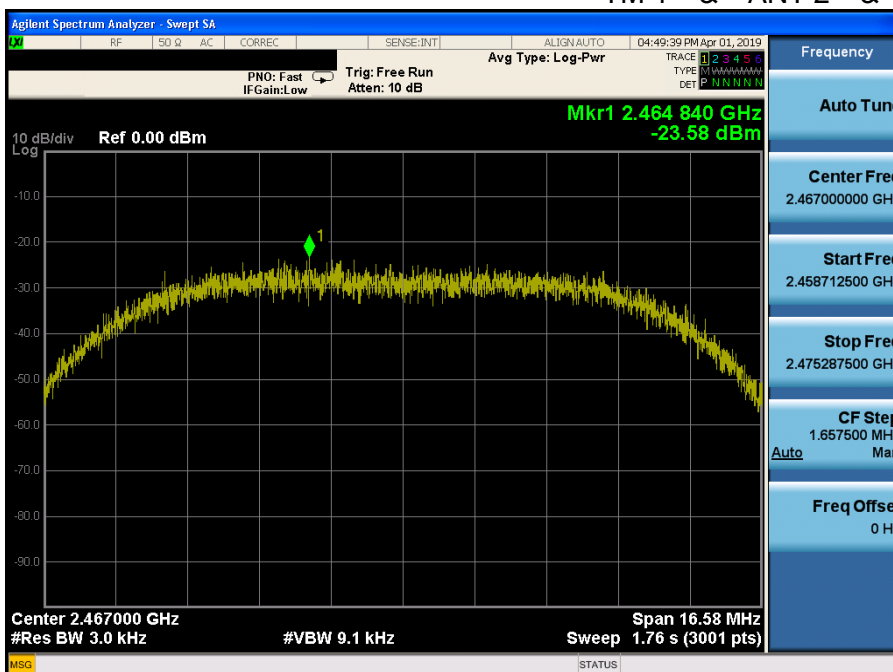
Maximum PPSD

TM 1 & ANT 2 & 2412



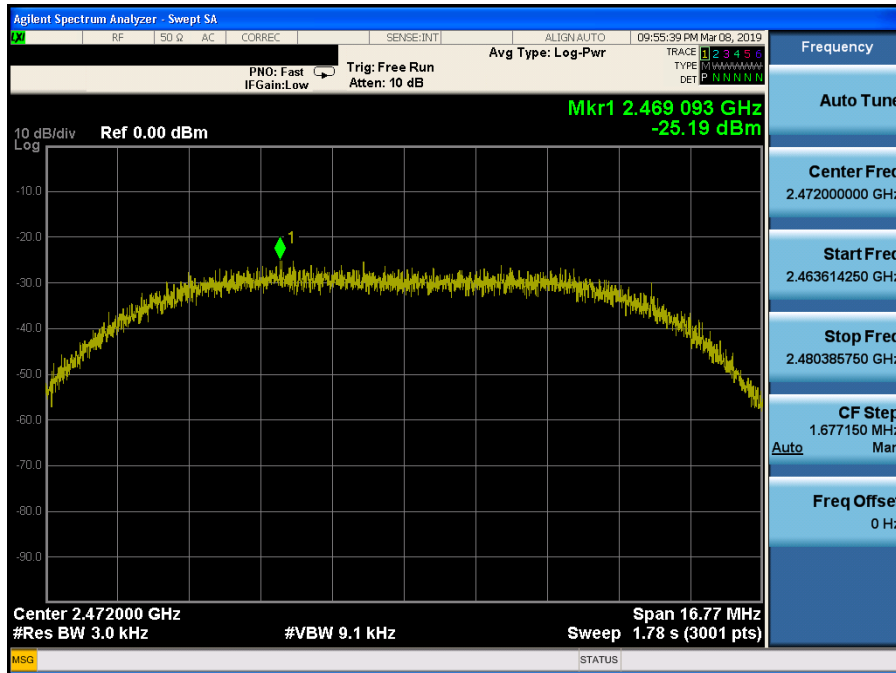
Maximum PPSD

TM 1 & ANT 2 & 2467



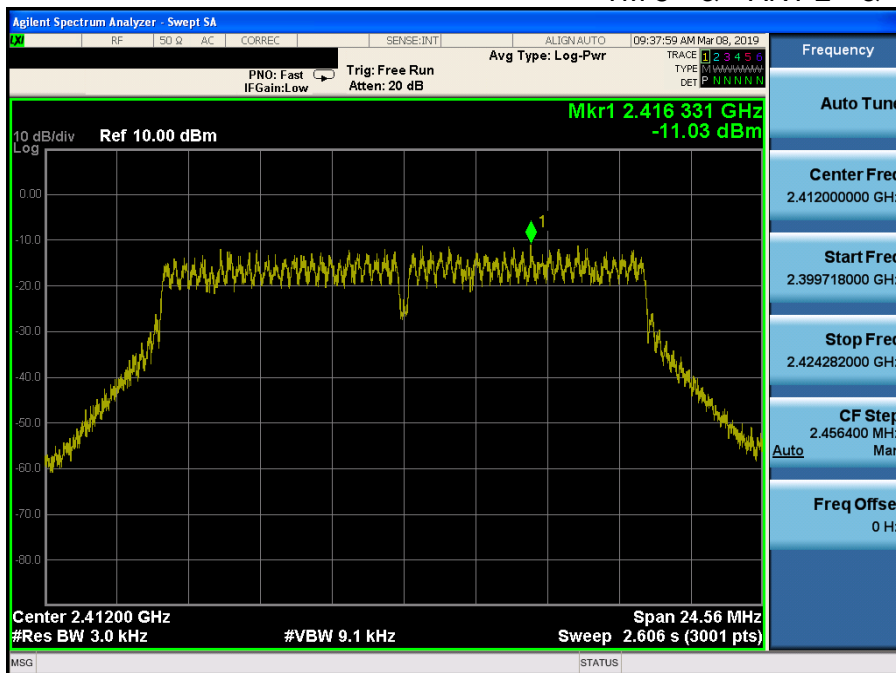
Maximum PPSD

TM 1 & ANT 2 & 2472



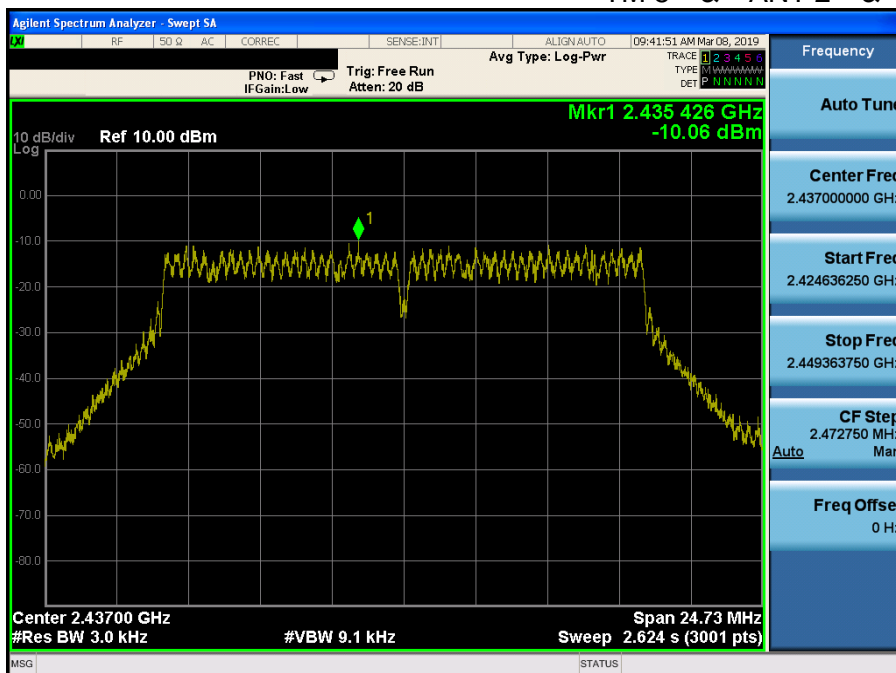
Maximum PPSD

TM 5 & ANT 2 & 2412



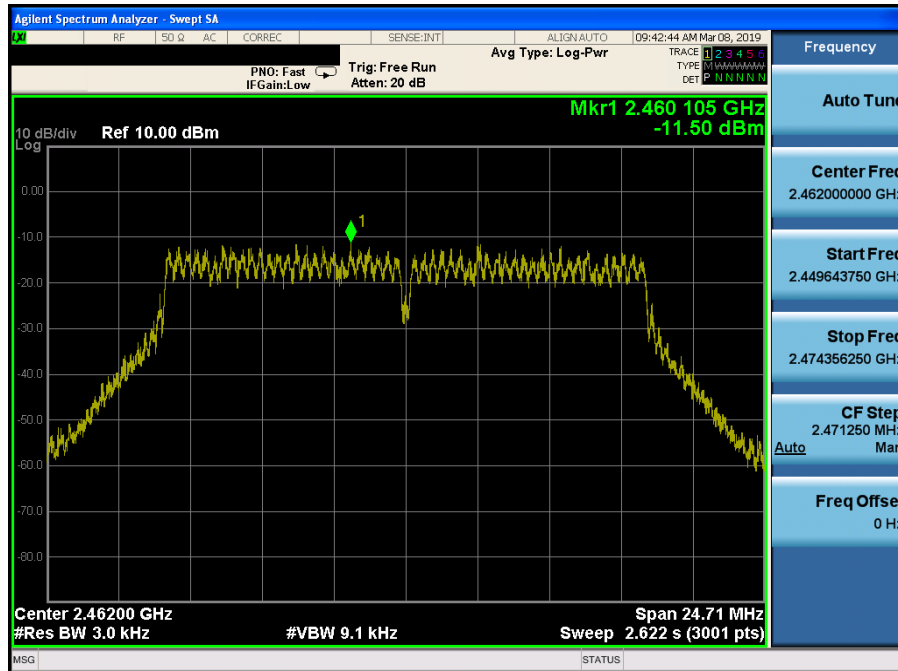
Maximum PPSD

TM 5 & ANT 2 & 2437



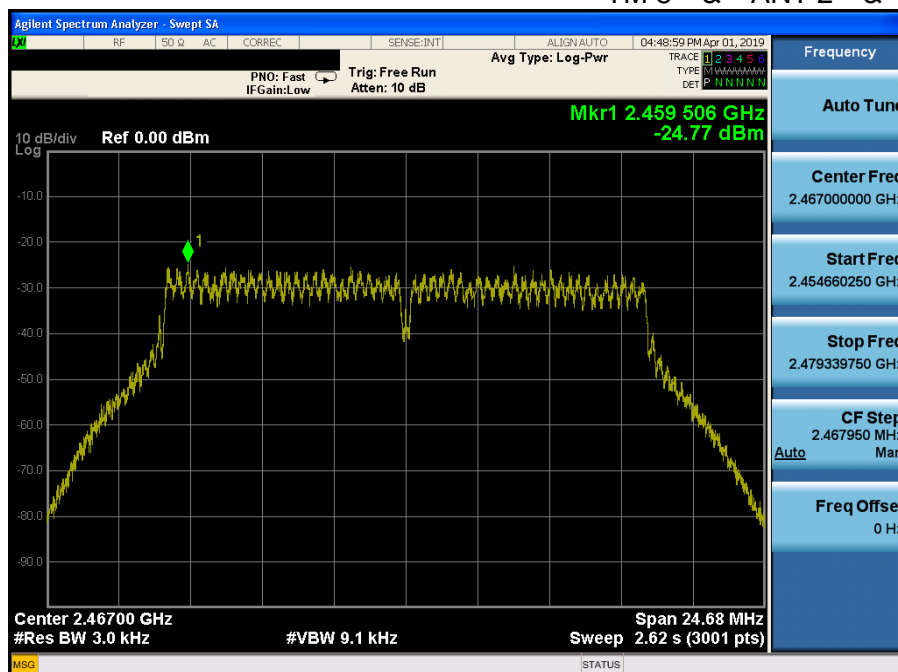
Maximum PPSD

TM 5 & ANT 2 & 2462



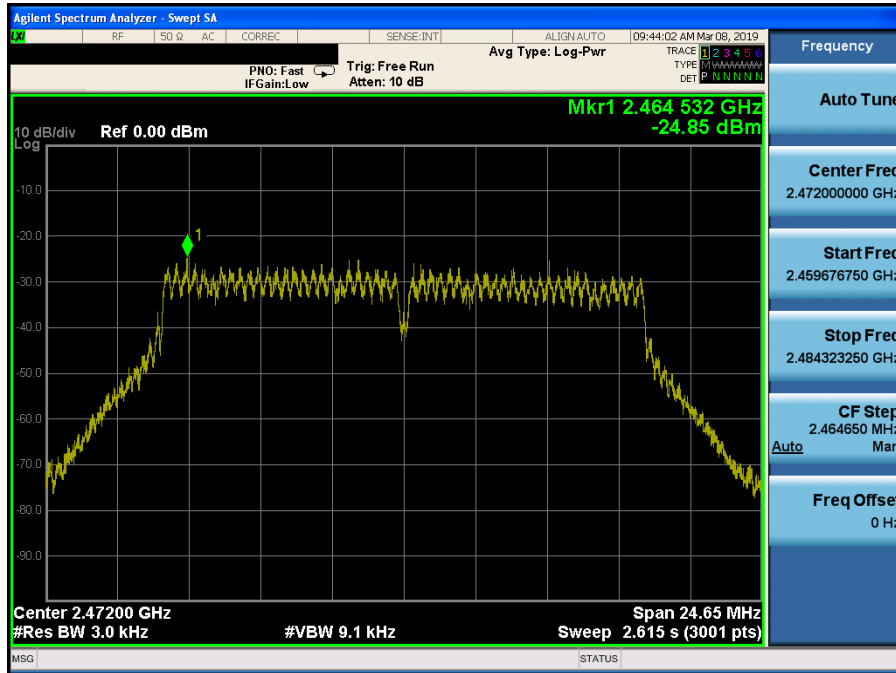
Maximum PPSD

TM 5 & ANT 2 & 2462



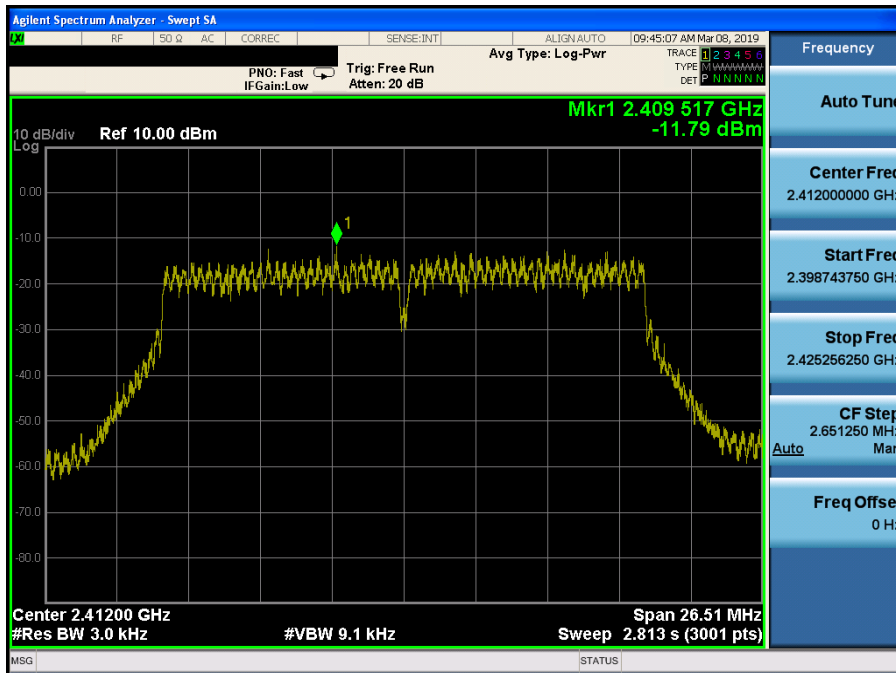
Maximum PSD

TM 5 & ANT 2 & 2472



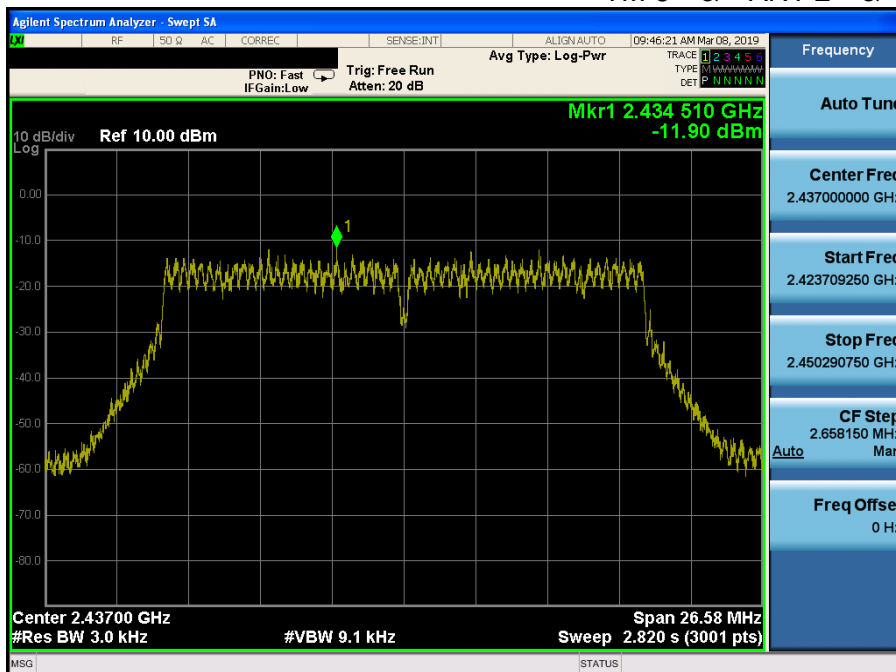
Maximum PPSD

TM 6 & ANT 2 & 2412



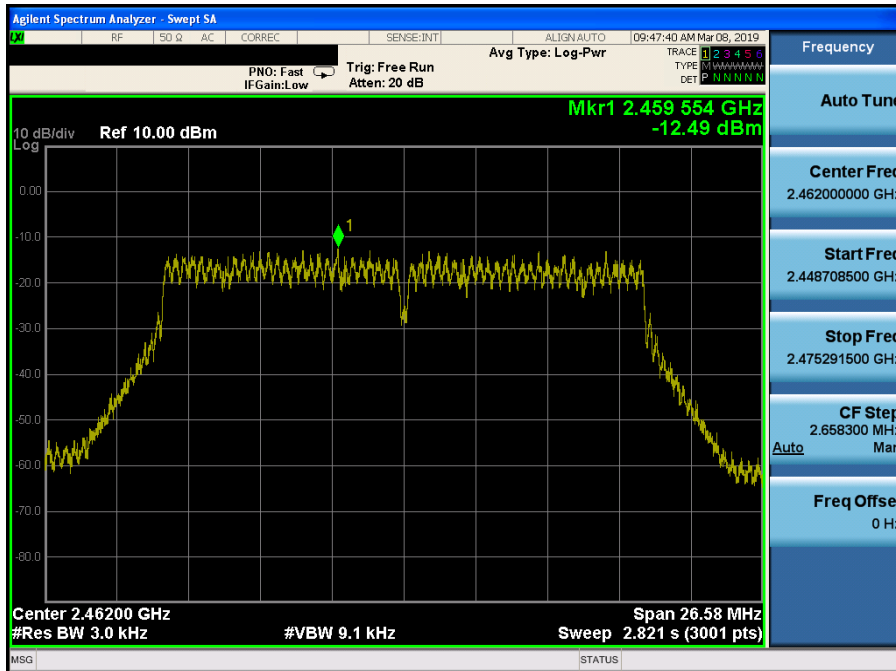
Maximum PPSD

TM 6 & ANT 2 & 2437



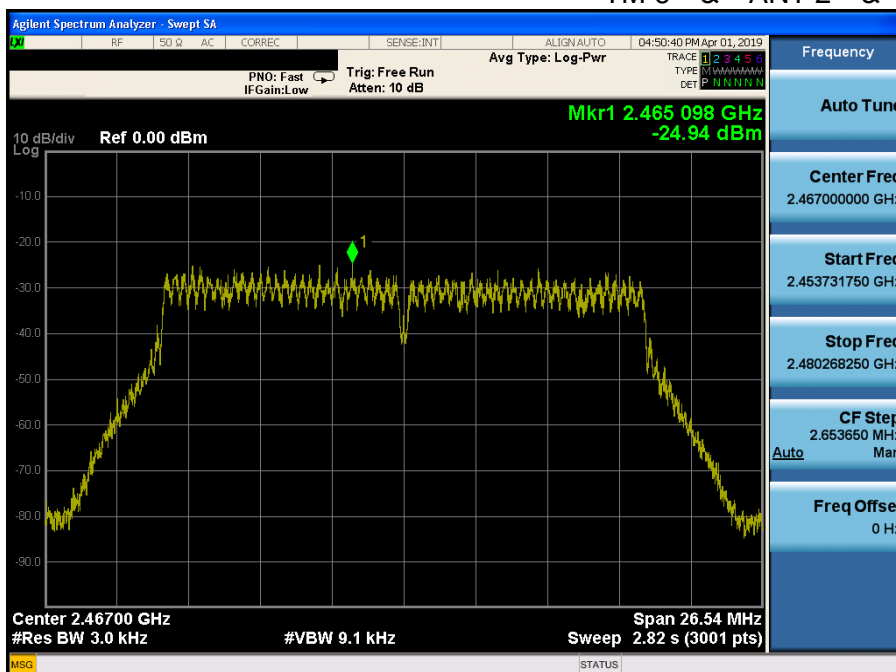
Maximum PPSD

TM 6 & ANT 2 & 2462



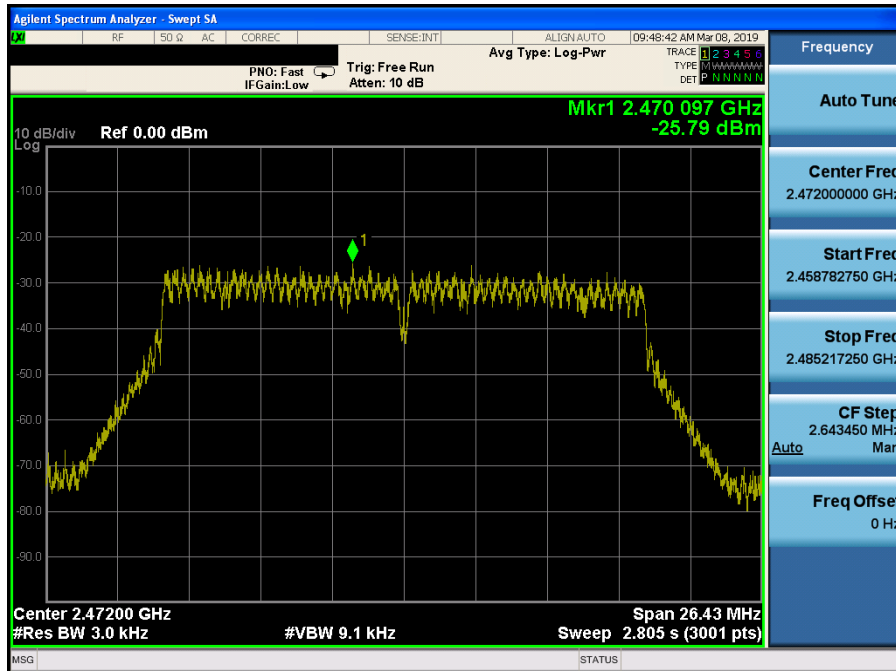
Maximum PPSD

TM 6 & ANT 2 & 2467



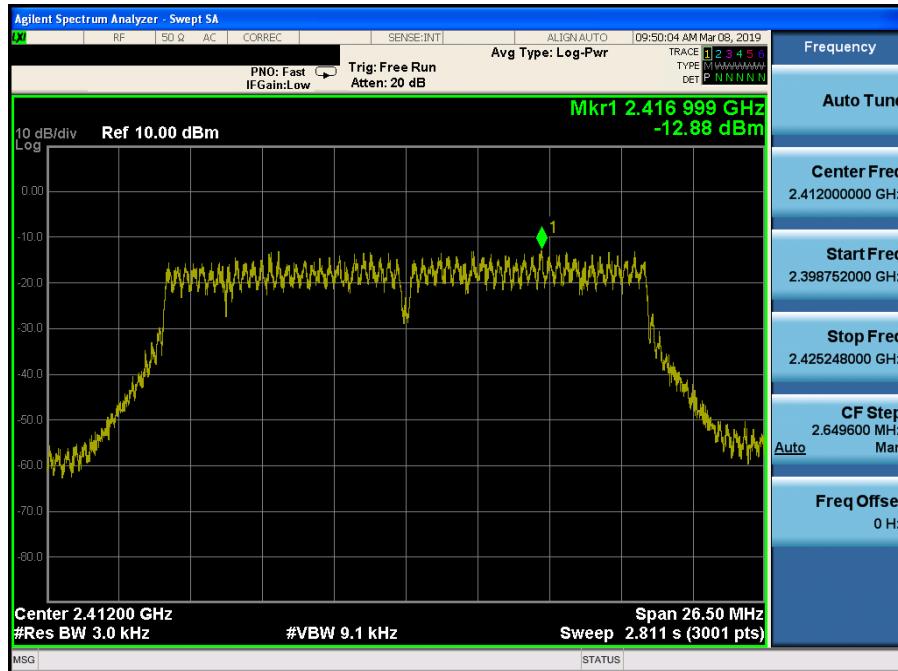
Maximum PPSD

TM 6 & ANT 2 & 2472



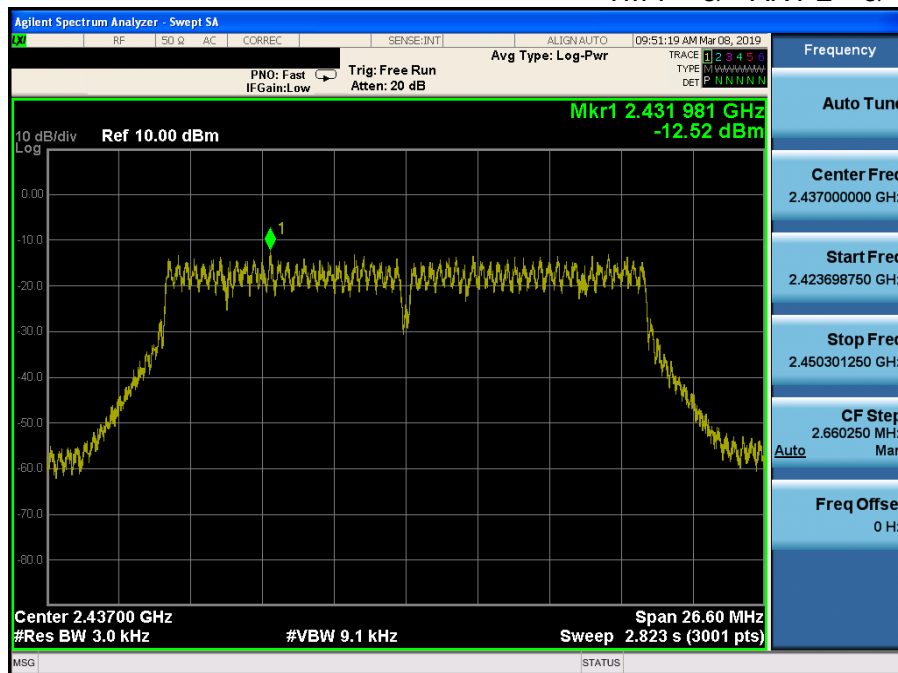
Maximum PPSD

TM 7 & ANT 2 & 2412



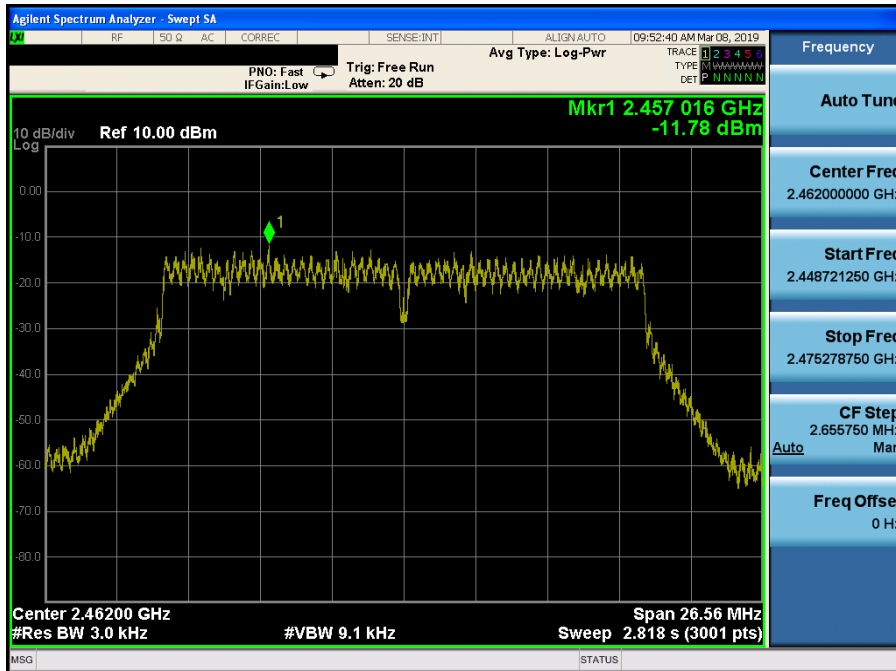
Maximum PPSD

TM 7 & ANT 2 & 2437



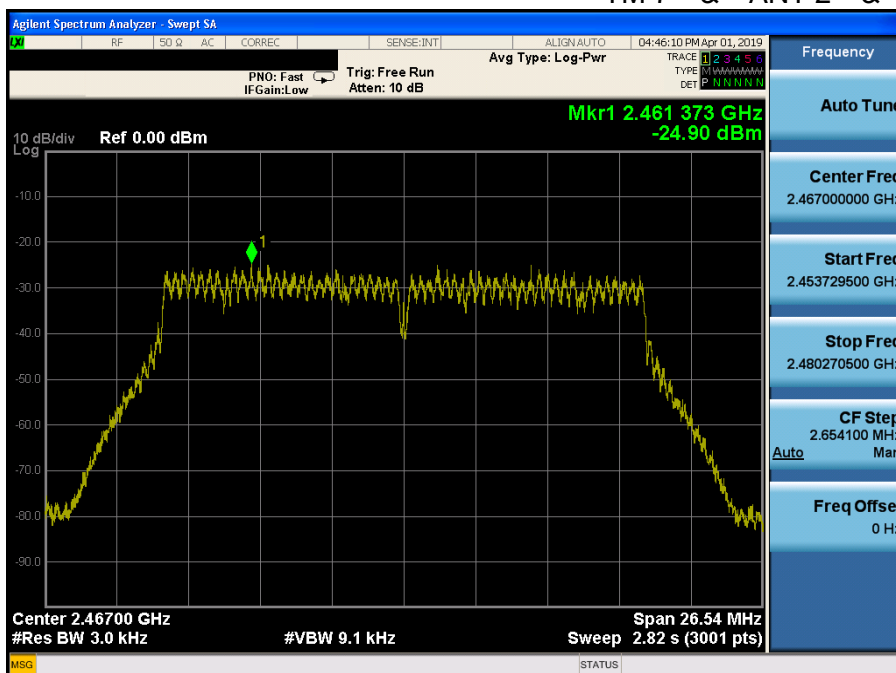
Maximum PPSD

TM 7 & ANT 2 & 2462



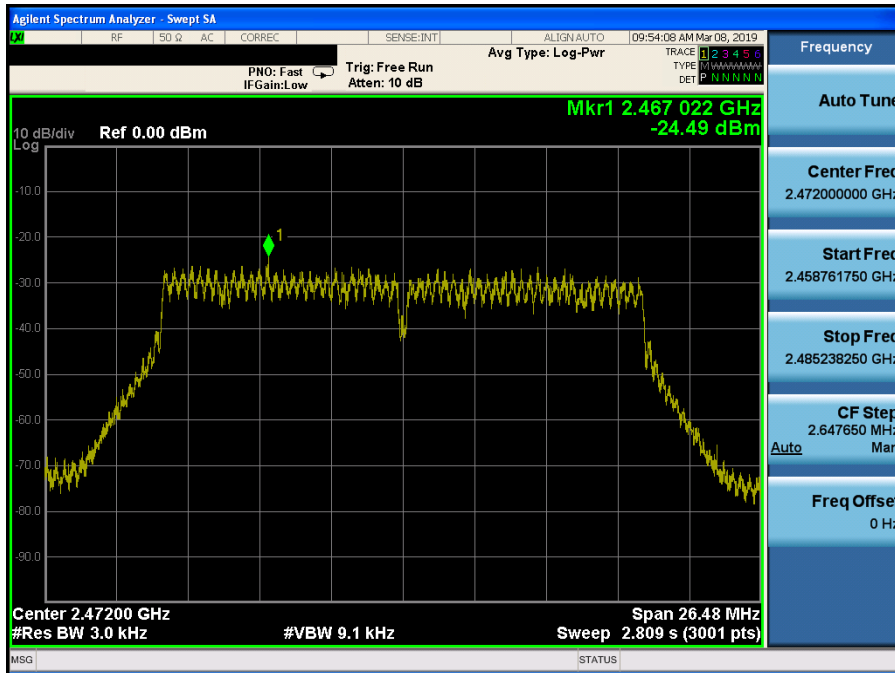
Maximum PPSD

TM 7 & ANT 2 & 2467



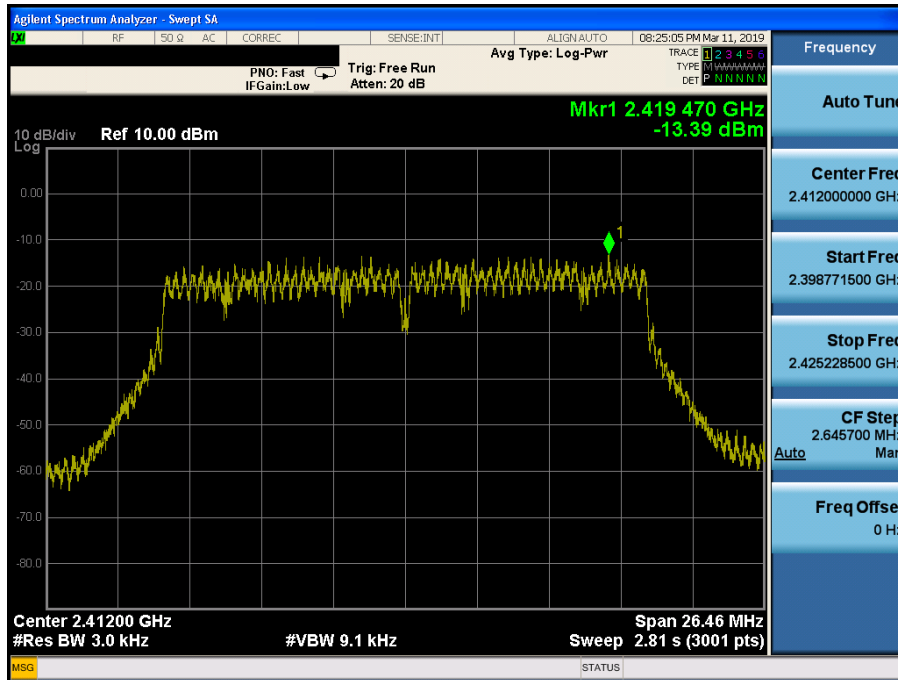
Maximum PPSD

TM 7 & ANT 2 & 2472



Maximum PPSD

TM 8 & ANT 2 & 2412



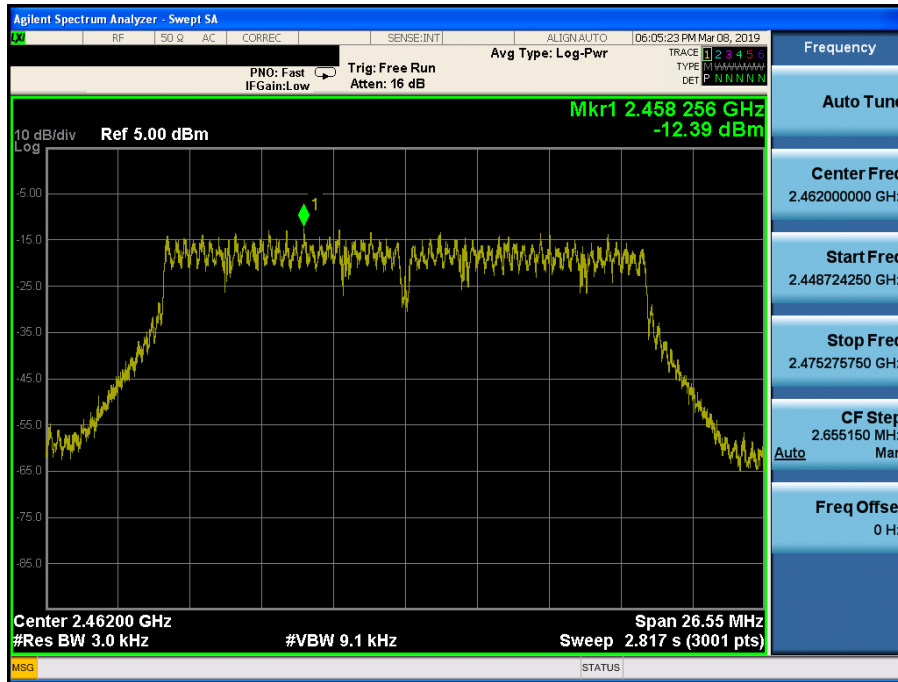
Maximum PPSD

TM 8 & ANT 2 & 2437



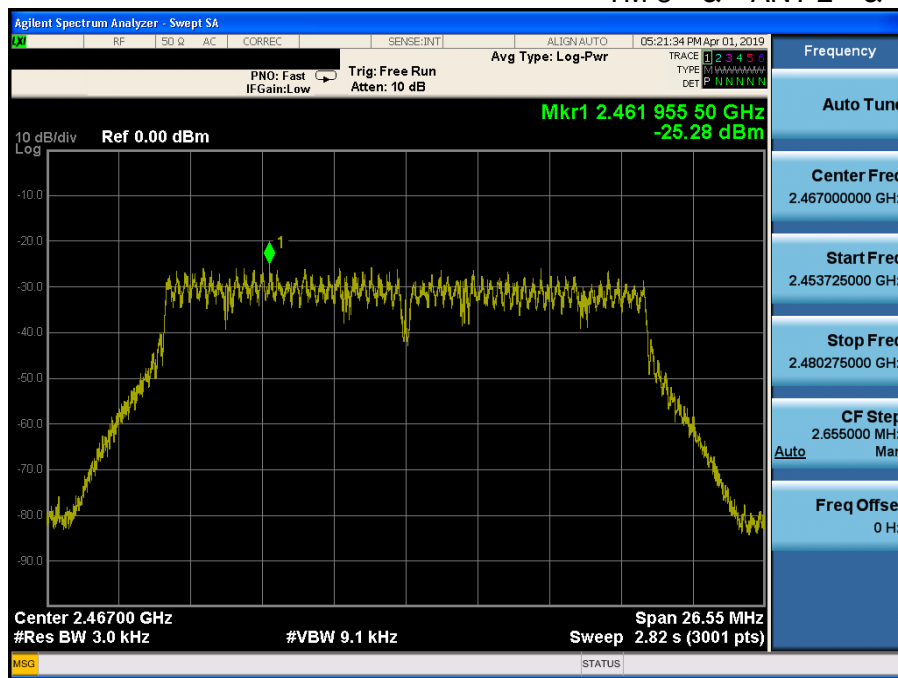
Maximum PPSD

TM 8 & ANT 2 & 2462



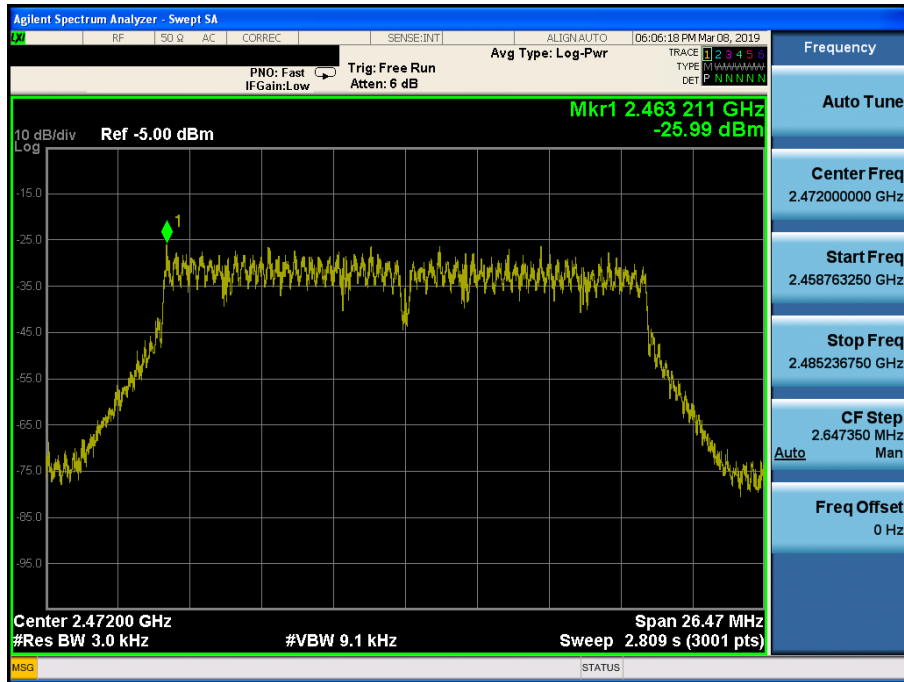
Maximum PPSD

TM 8 & ANT 2 & 2467



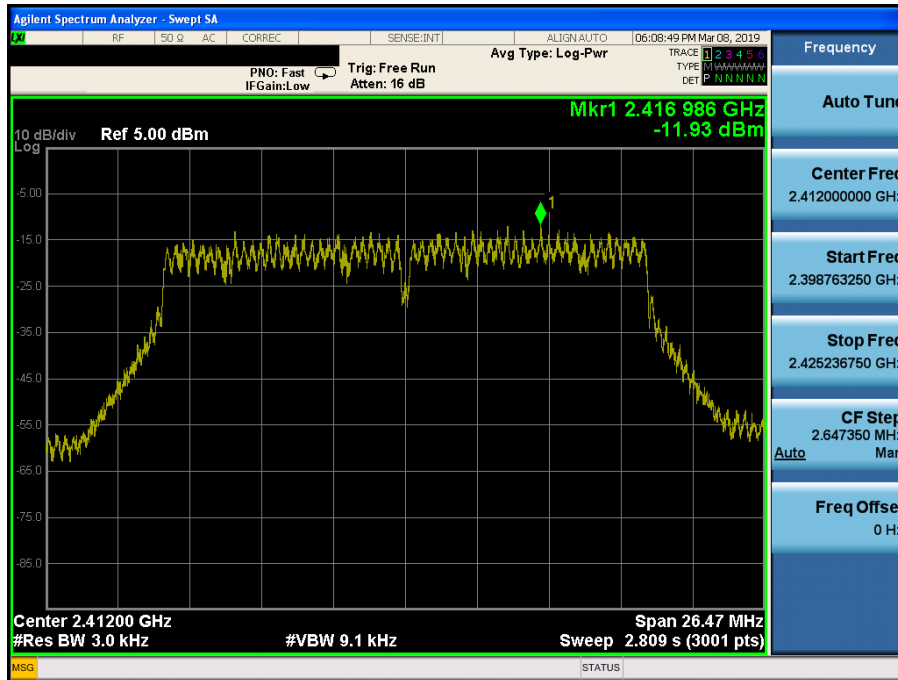
Maximum PPSD

TM 8 & ANT 2 & 2472



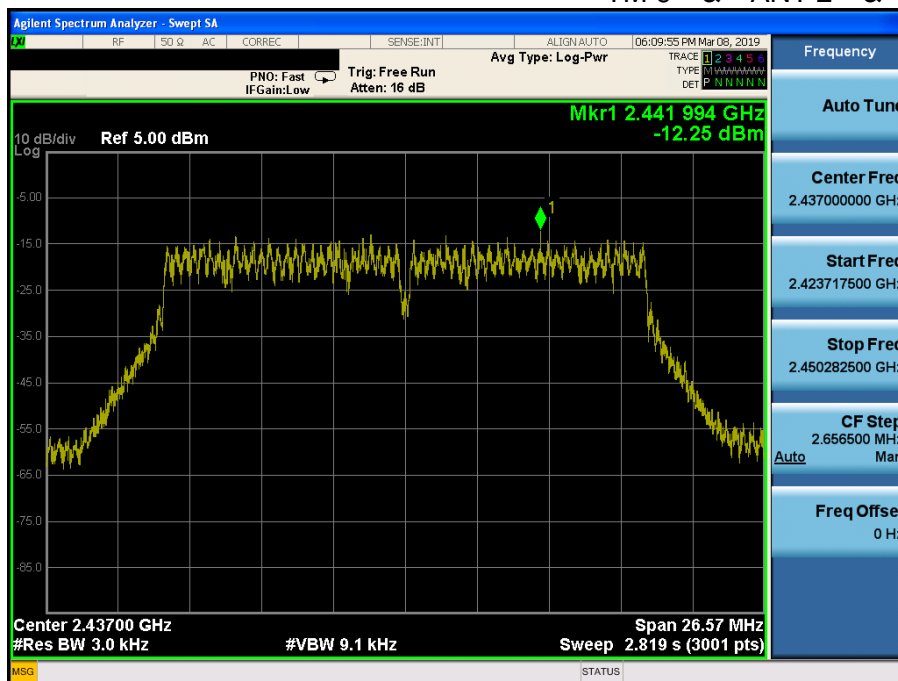
Maximum PPSD

TM 9 & ANT 2 & 2412



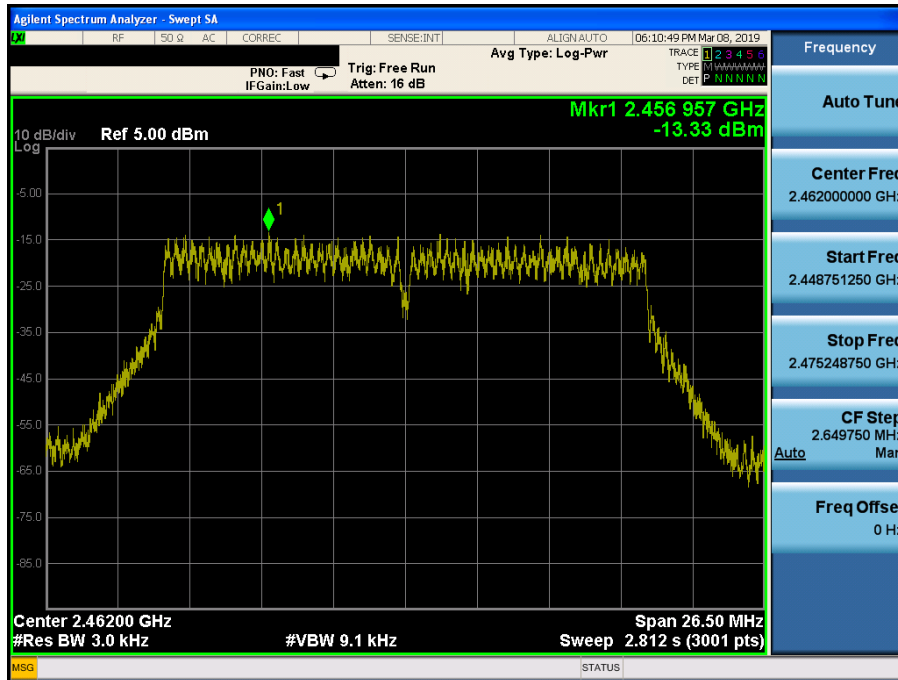
Maximum PPSD

TM 9 & ANT 2 & 2437



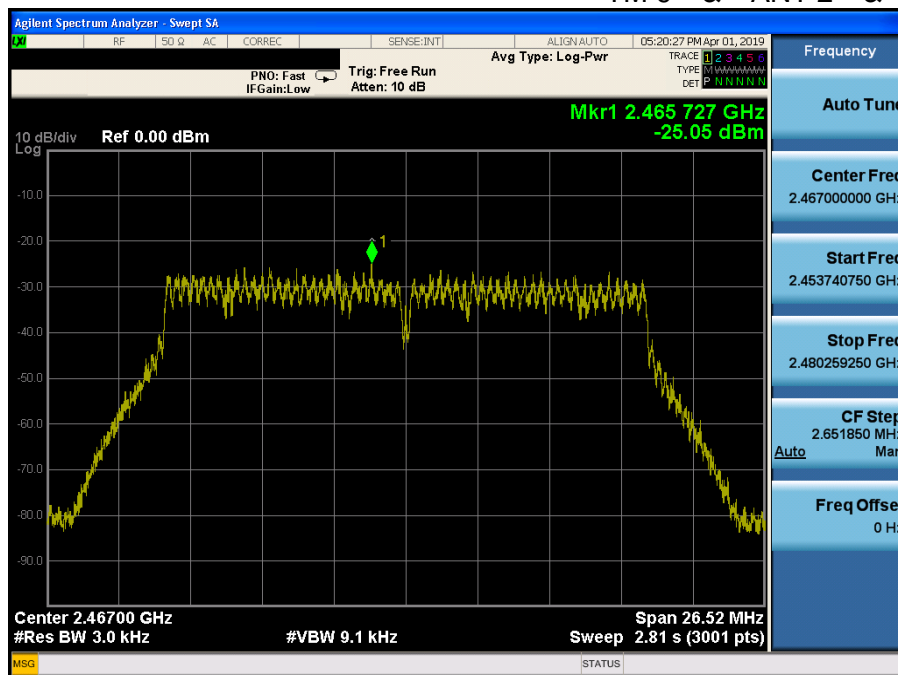
Maximum PPSD

TM 9 & ANT 2 & 2462



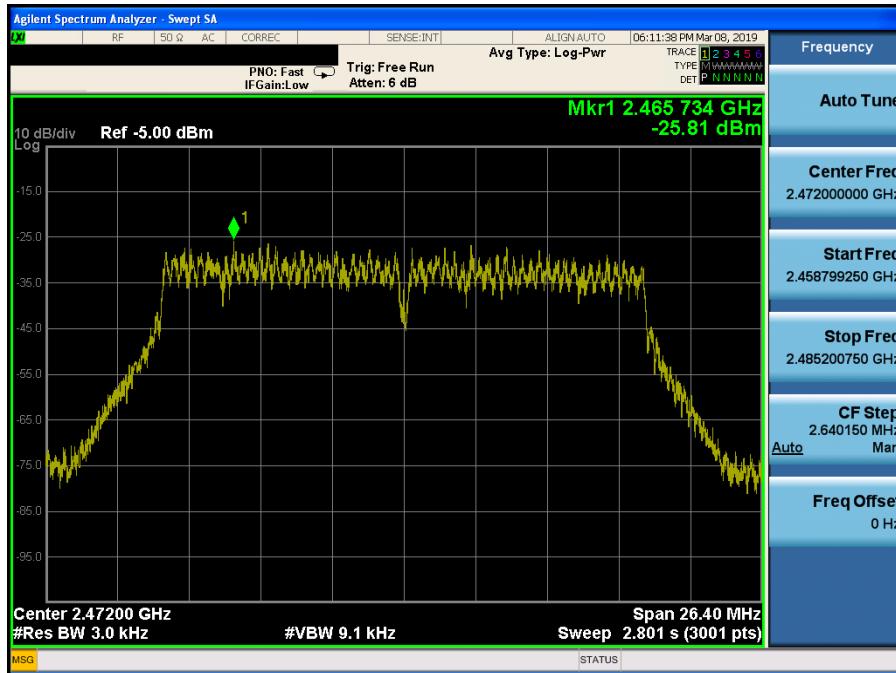
Maximum PPSD

TM 9 & ANT 2 & 2467



Maximum PPSD

TM 9 & ANT 2 & 2472



8.4 Out of band emissions at the band edge / conducted spurious emissions

■ Test requirements and limit, §15.247(d)

§15.247(d) specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

If the **peak output power procedure** is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated **by at least 20 dB** relative to the maximum measured in-band peak PSD level. If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in band average PSD level.

In either case, attenuation to levels below the general emission limits specified in §15.209(a) is not required.

■ Test Configuration:

Refer to the APPENDIX I.

■ Test Procedure

- KDB558074 D01v05r01 - Section 8.5
- ANSI C63.10-2013 – Section 11.11

Reference level measurement

1. Set instrument center frequency to DTS channel center frequency.
2. Set the span to ≥ 1.5 times the DTS bandwidth.
3. Set the RBW = **100 kHz**.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = **Peak**.
6. Sweep time = **Auto couple**.
7. Trace mode = **Max hold**.
8. **Allow trace to fully stabilize**.
9. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = **100 kHz. (Actual 1 MHz, See below note)**
3. Set the VBW $\geq 3 \times$ RBW. **(Actual 3 MHz, See below note)**
4. Detector = **Peak**.
5. Ensure that the number of measurement points \geq Span / RBW.
6. Sweep time = **Auto couple**.
7. Trace mode = **Max hold**.
8. **Allow the trace to stabilize.** (this may take some time, depending on the extent of the span)
9. Use the peak marker function to determine the maximum amplitude level.

Note: The conducted spurious emission was tested with below settings.

Frequency range: 9 kHz ~ 30 MHz

RBW = 100 kHz, VBW = 300 kHz, Sweep time = Auto, Detector = Peak, Trace = Max hold, Sweep points: 40001

Frequency range: 30 MHz ~ 10 GHz, 10 GHz ~ 25 GHz

RBW = 1 MHz, VBW = 3 MHz, Sweep time = Auto, Detector = Peak, Trace = Max hold, Sweep points: 40001

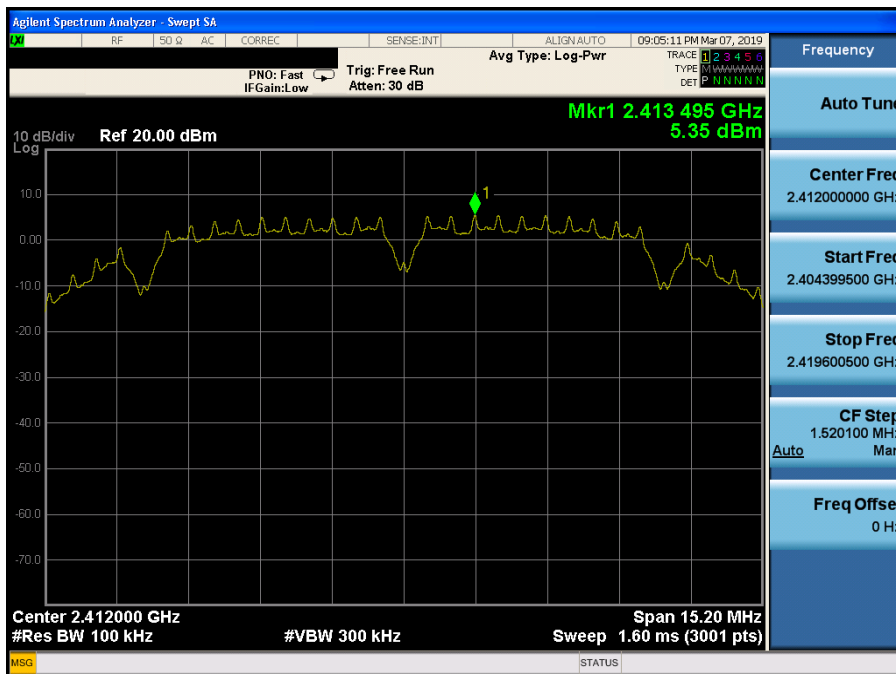
LIMIT LINE = 20 dB below of the reference level of above measurement procedure Step 2. (RBW = 100 kHz, VBW = 300 kHz)

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 = 2001 to get accurate emission level within 100 kHz BW.

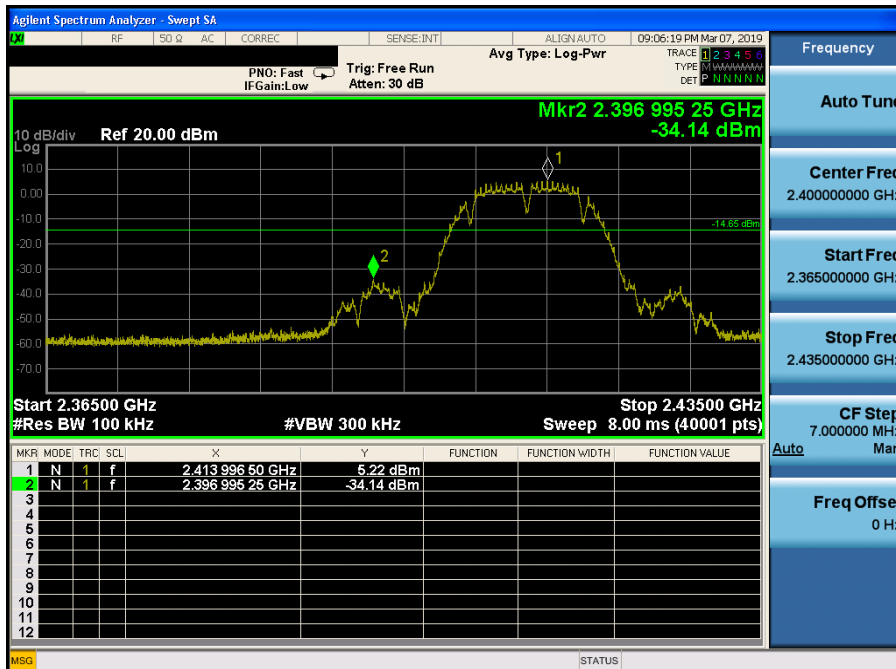
RESULT PLOTS

TM 1 & ANT 1 & 2412

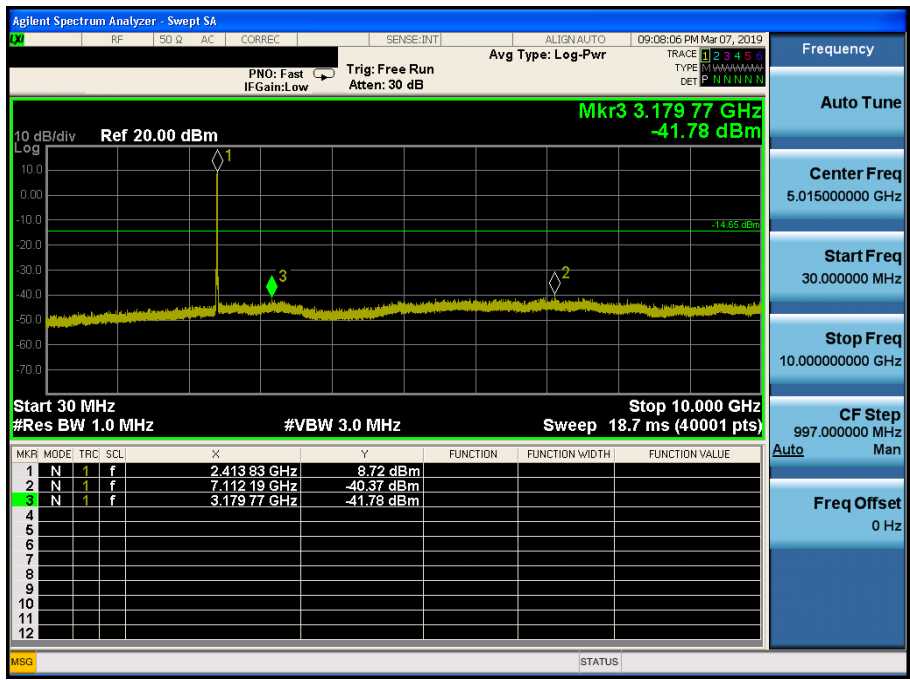
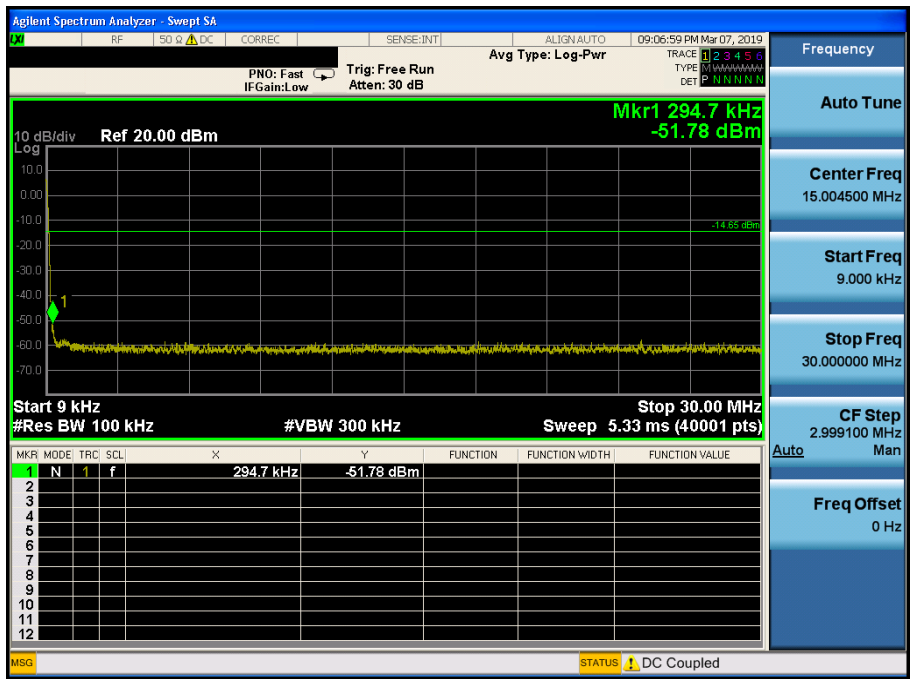
Reference



Low Band-edge



Conducted Spurious Emissions

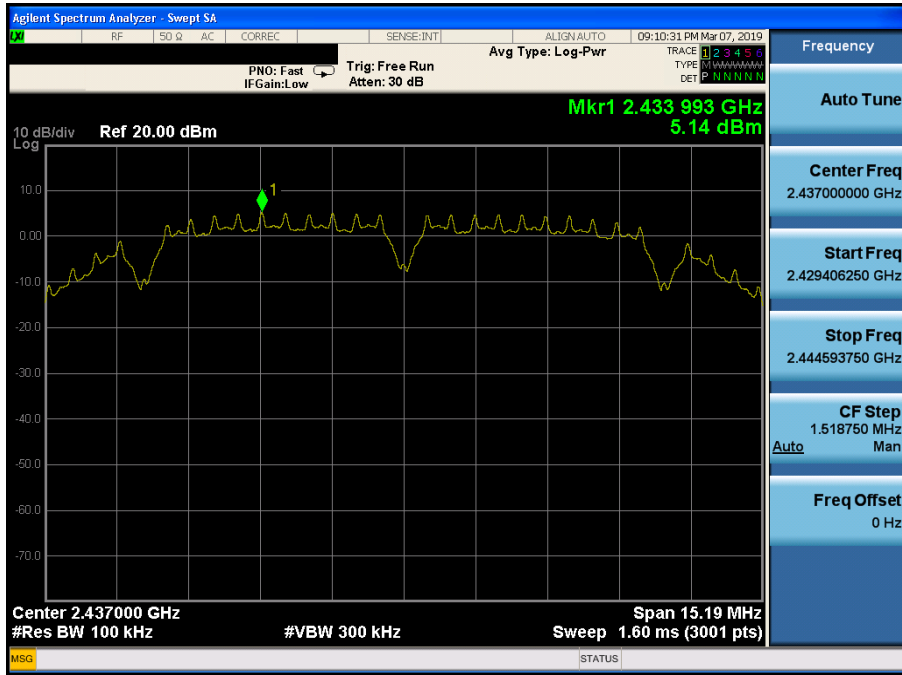


Conducted Spurious Emissions

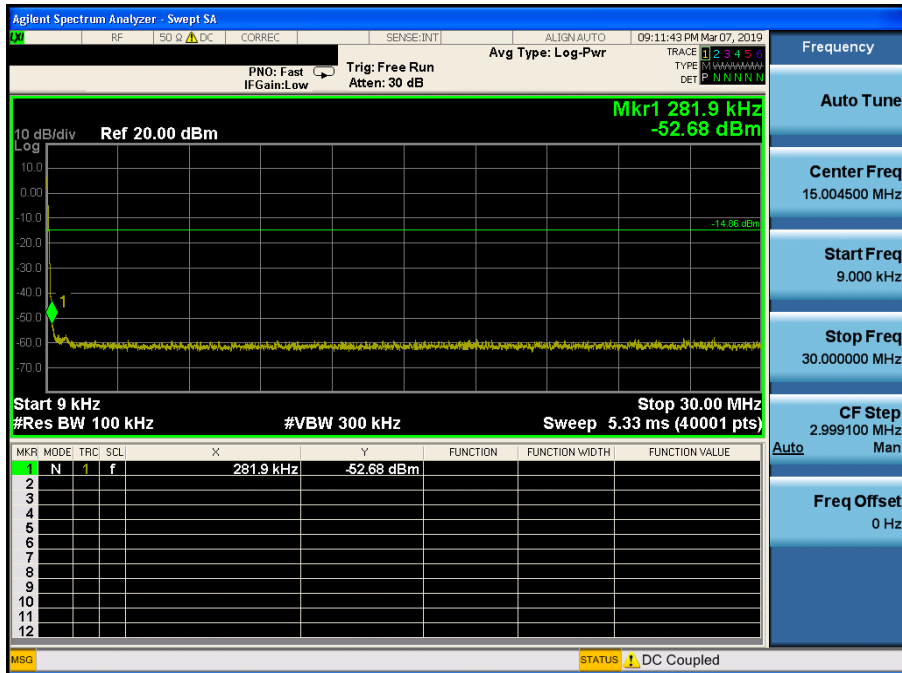


TM 1 & ANT 1 & 2437

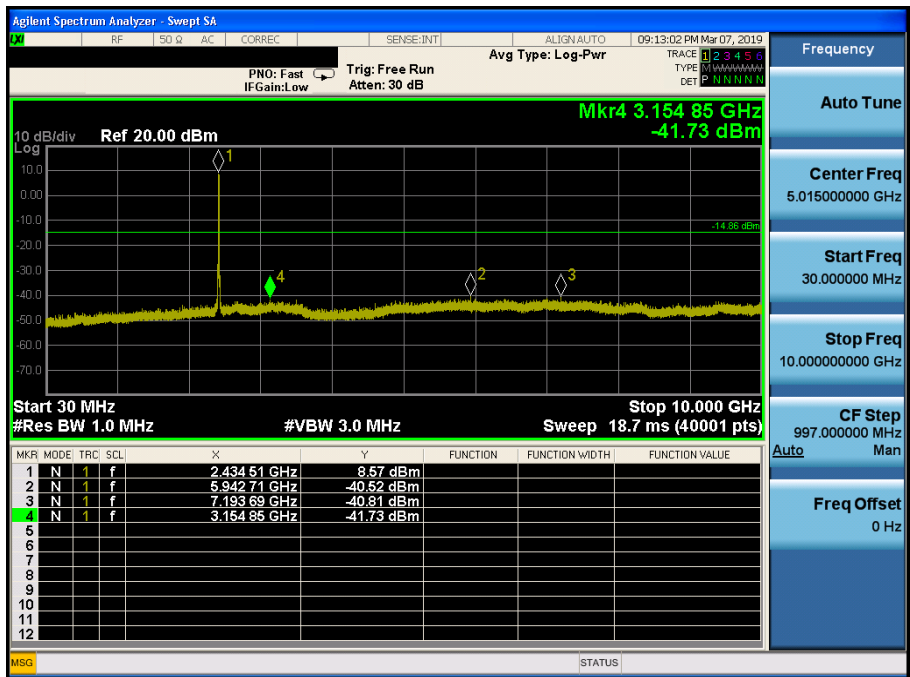
Reference



Conducted Spurious Emissions

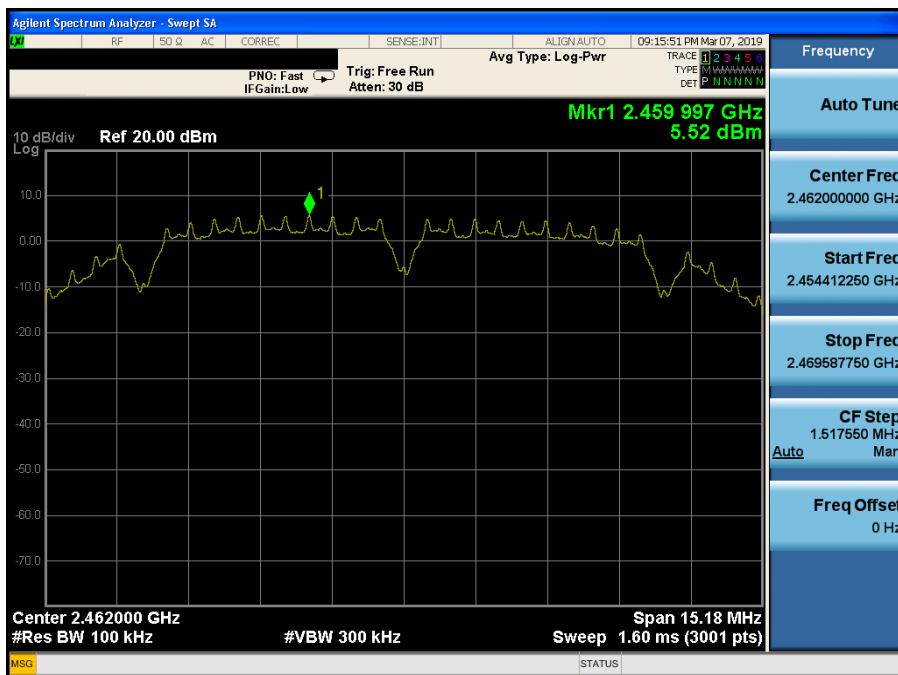


Conducted Spurious Emissions

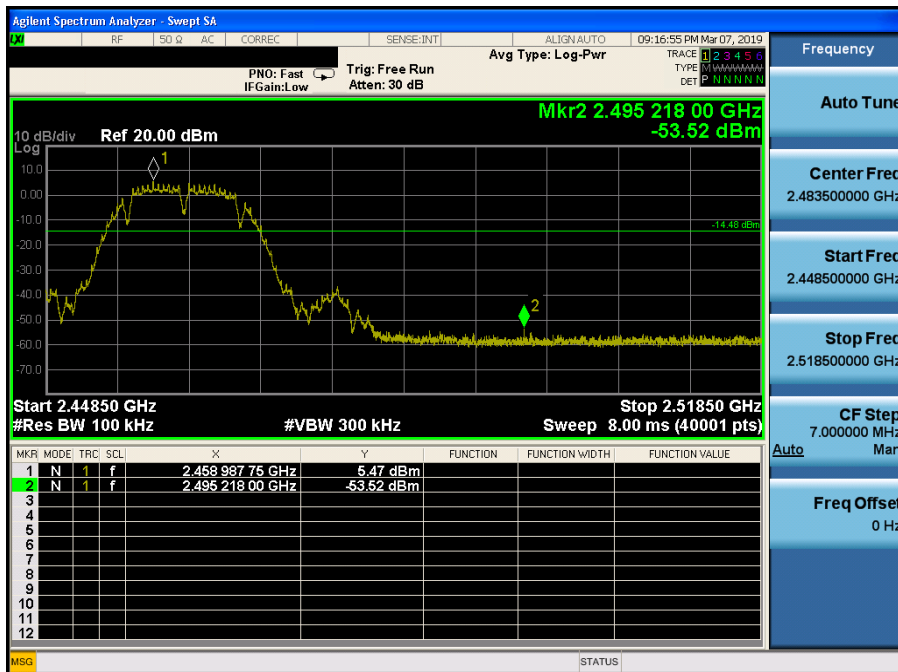


TM 1 & ANT 1 & 2462

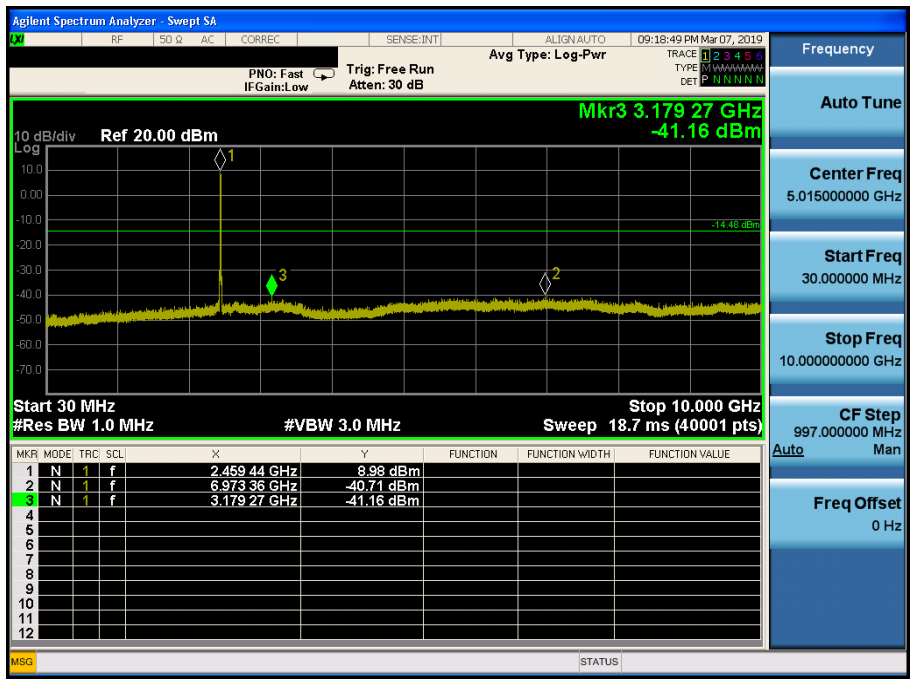
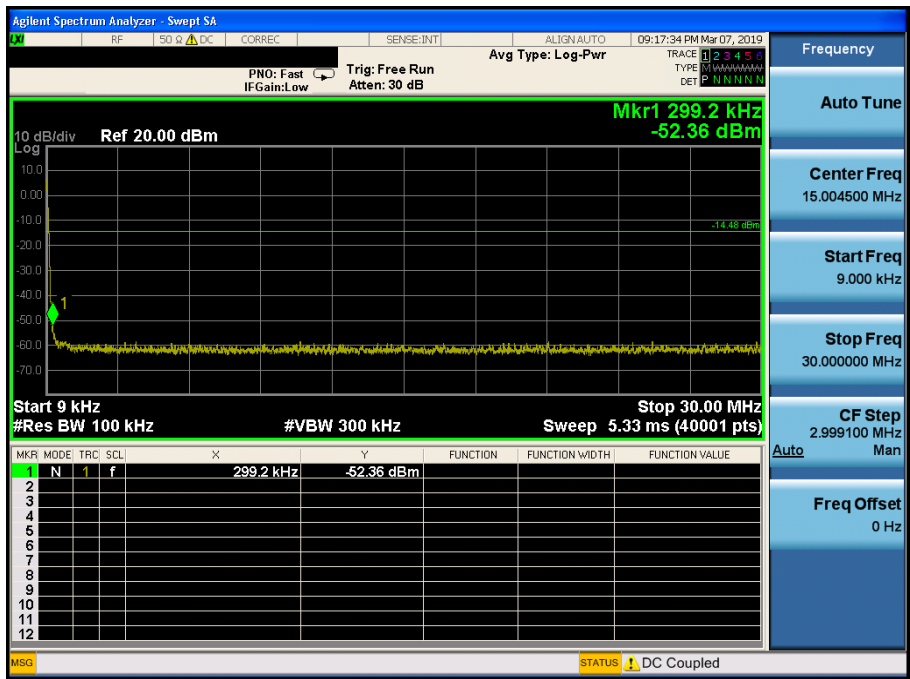
Reference



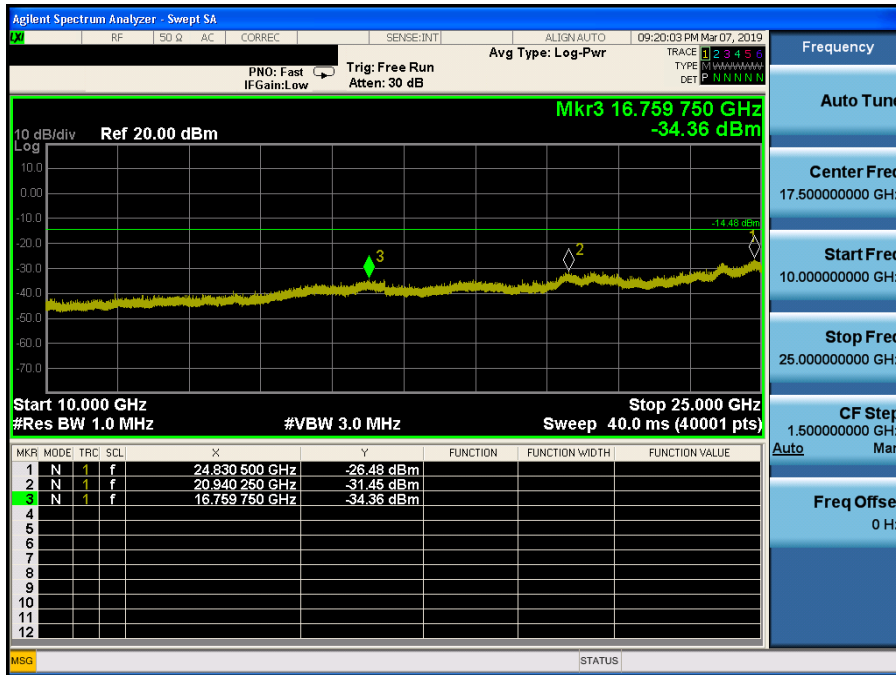
High Band-edge



Conducted Spurious Emissions

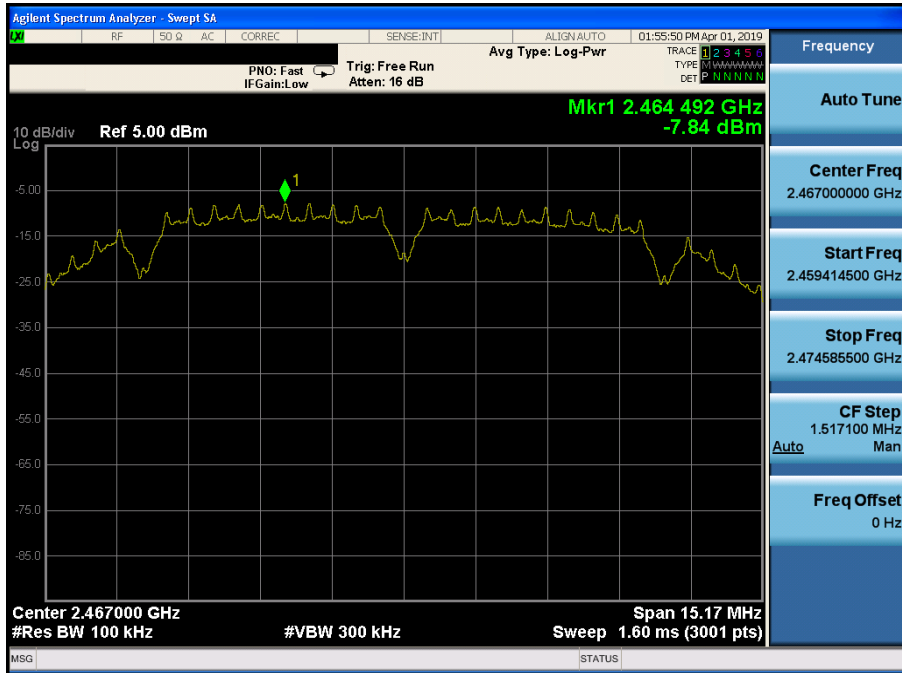


Conducted Spurious Emissions

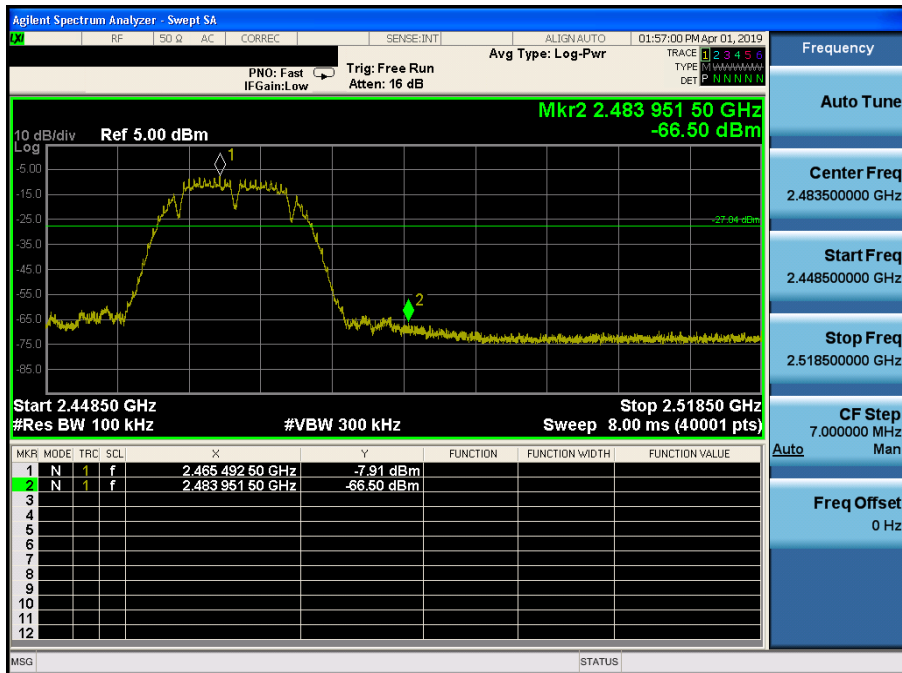


TM 1 & ANT 1 & 2467

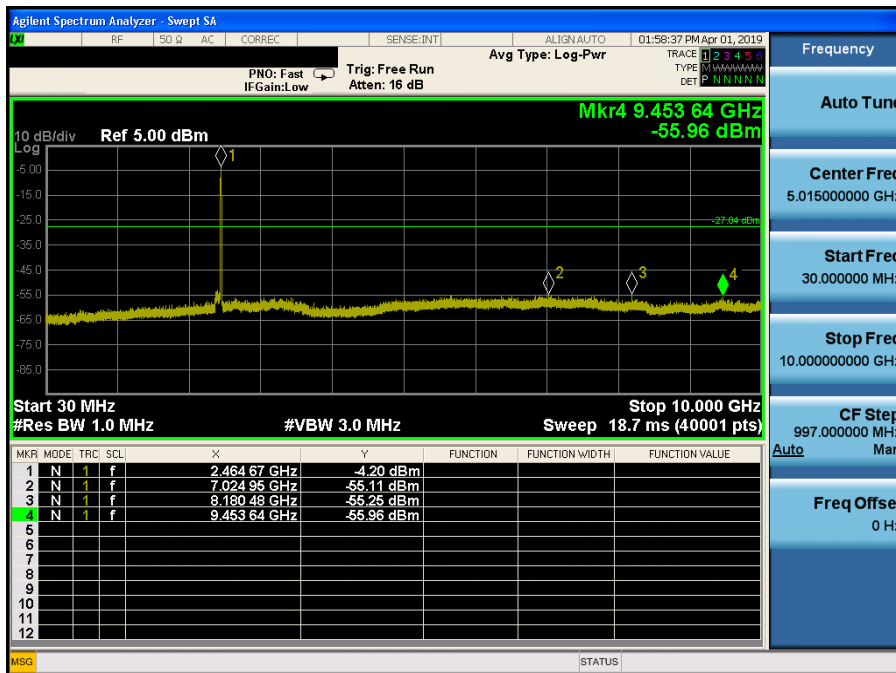
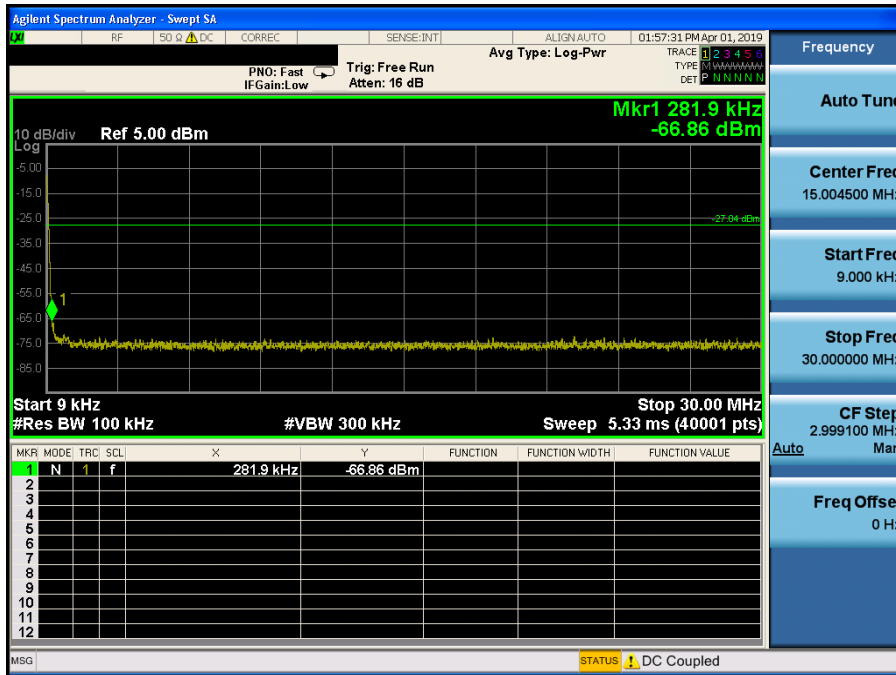
Reference



High Band-edge



Conducted Spurious Emissions



Conducted Spurious Emissions

