

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.

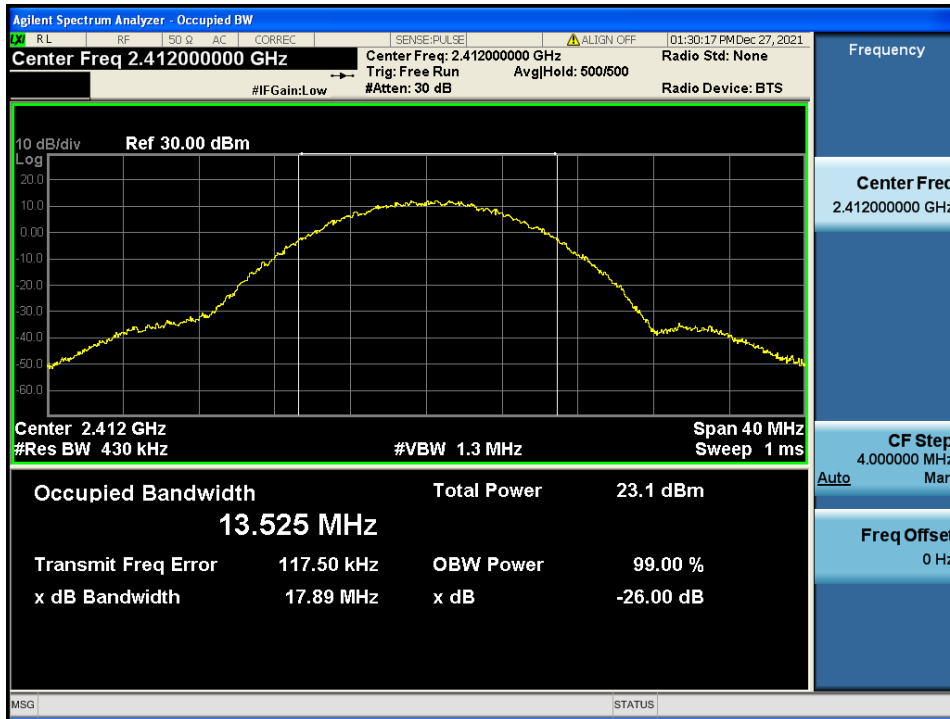
The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3 × RBW.

5.7.3. Test Results

Test Mode	Frequency	Test Results (MHz)
TM 1	2 412	13.53
	2 437	13.66
	2 462	13.54
TM 2	2 412	16.89
	2 437	17.03
	2 462	16.91
TM 3	2 412	18.09
	2 437	18.18
	2 462	18.09
TM 4	2 422	36.69
	2 437	37.02
	2 452	36.79

Occupied Bandwidth

TM 1 & 2 412



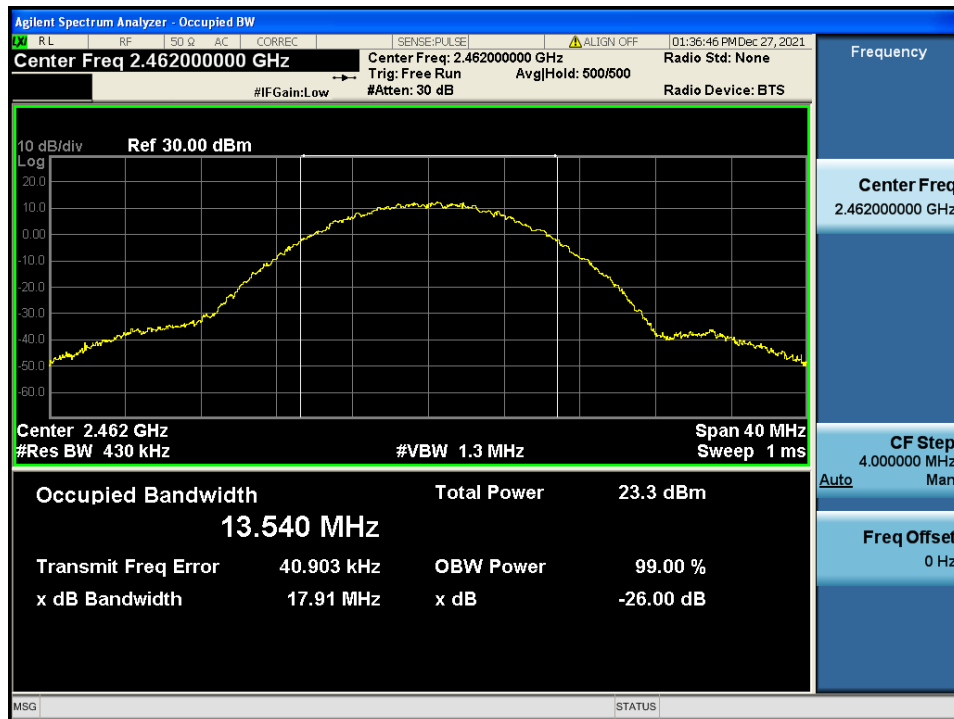
Occupied Bandwidth

TM 1 & 2 437



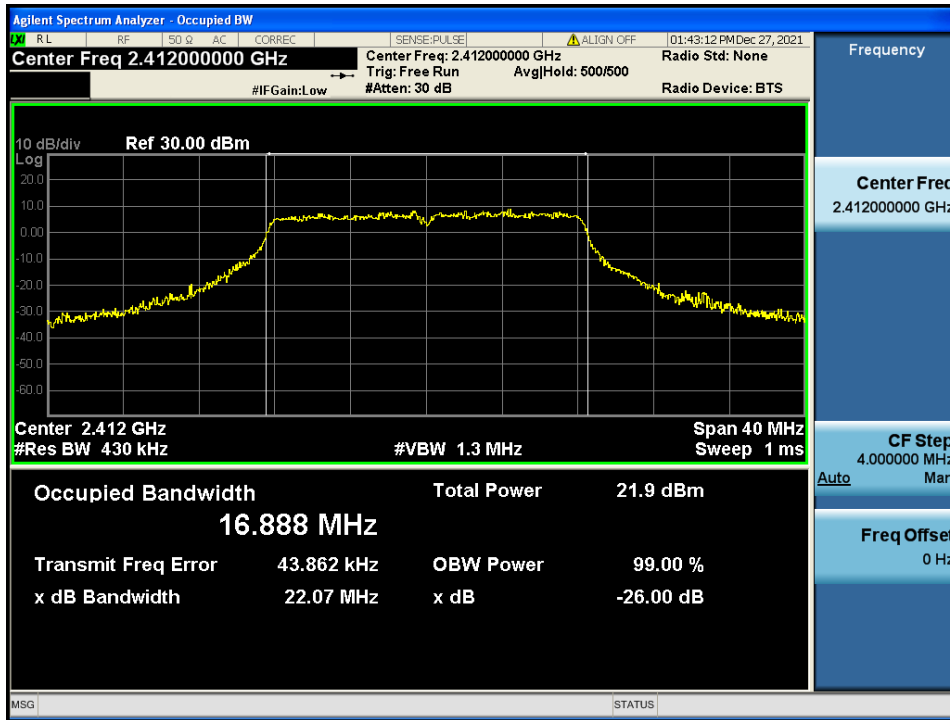
Occupied Bandwidth

TM 1 & 2 462



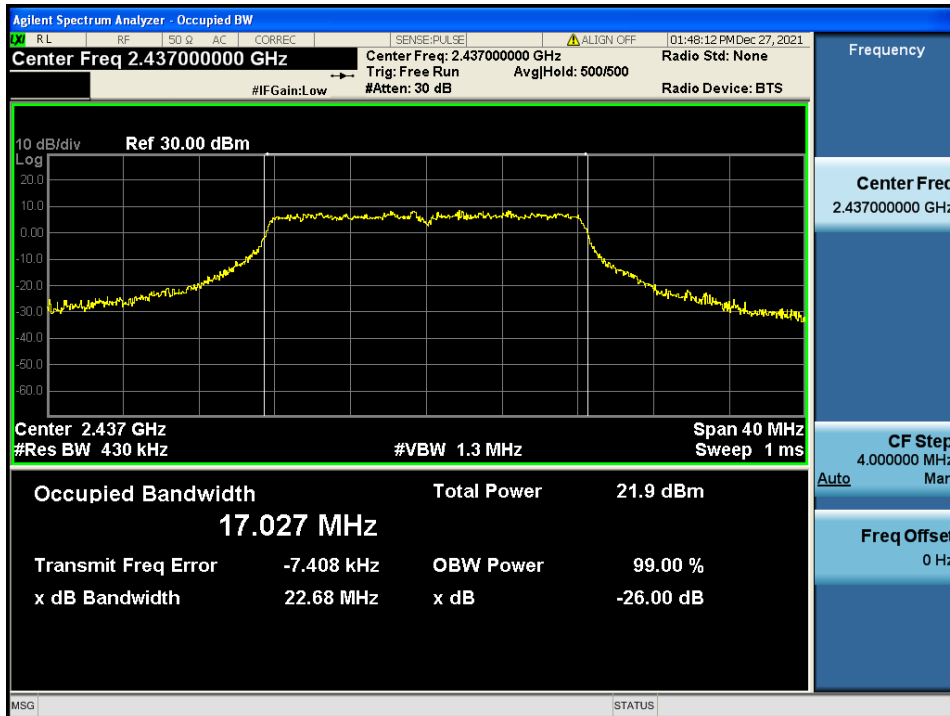
Occupied Bandwidth

TM 2 & 2 412



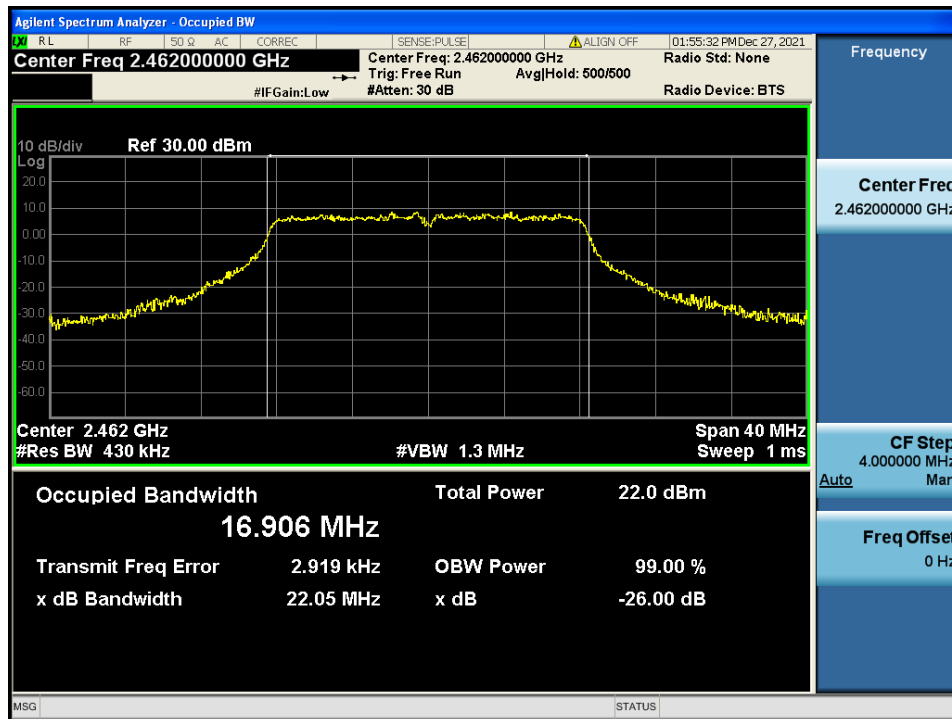
Occupied Bandwidth

TM 2 & 2 437



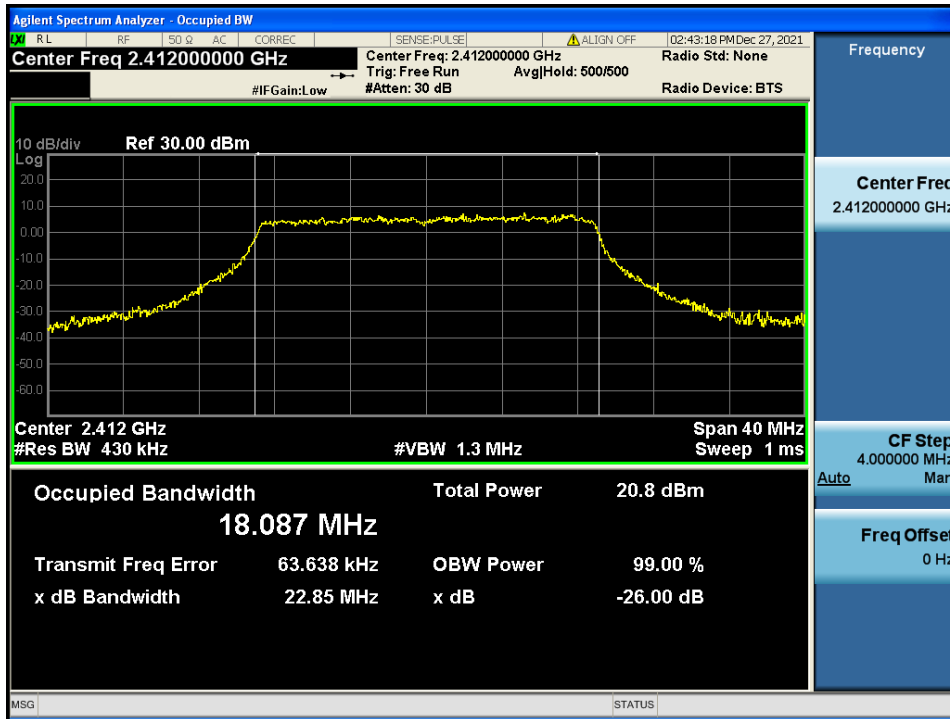
Occupied Bandwidth

TM 2 & 2 462



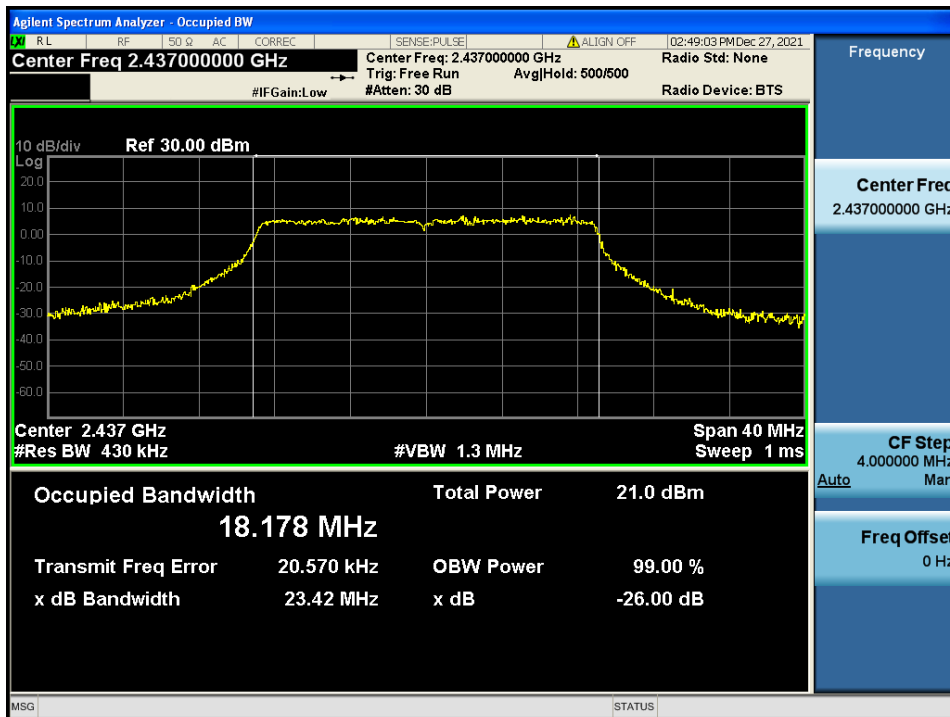
Occupied Bandwidth

TM 3 & 2412



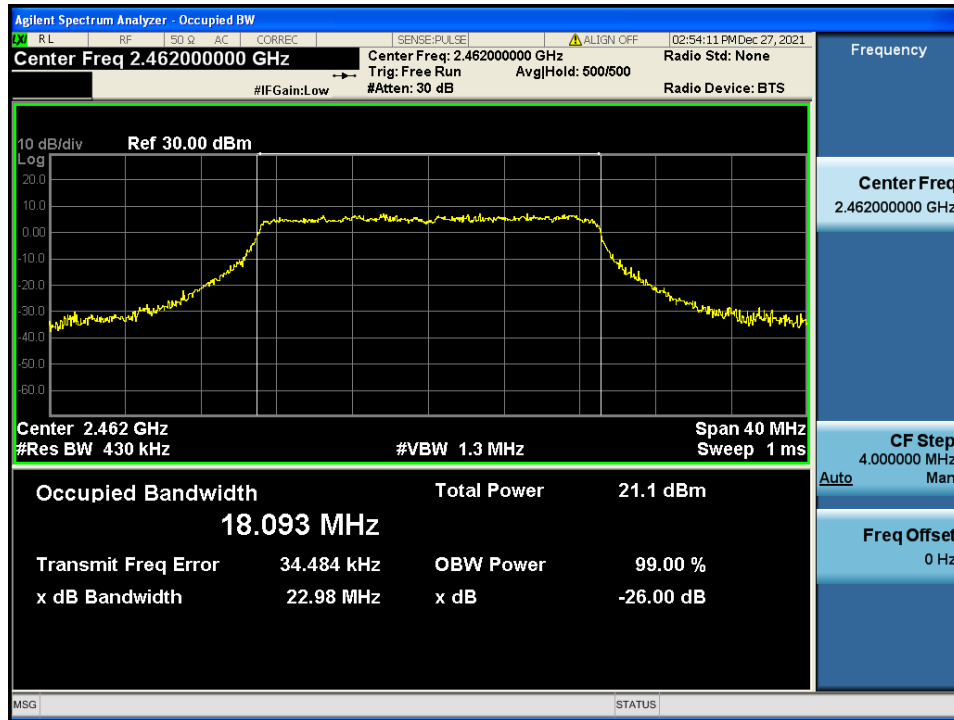
Occupied Bandwidth

TM 3 & 2437



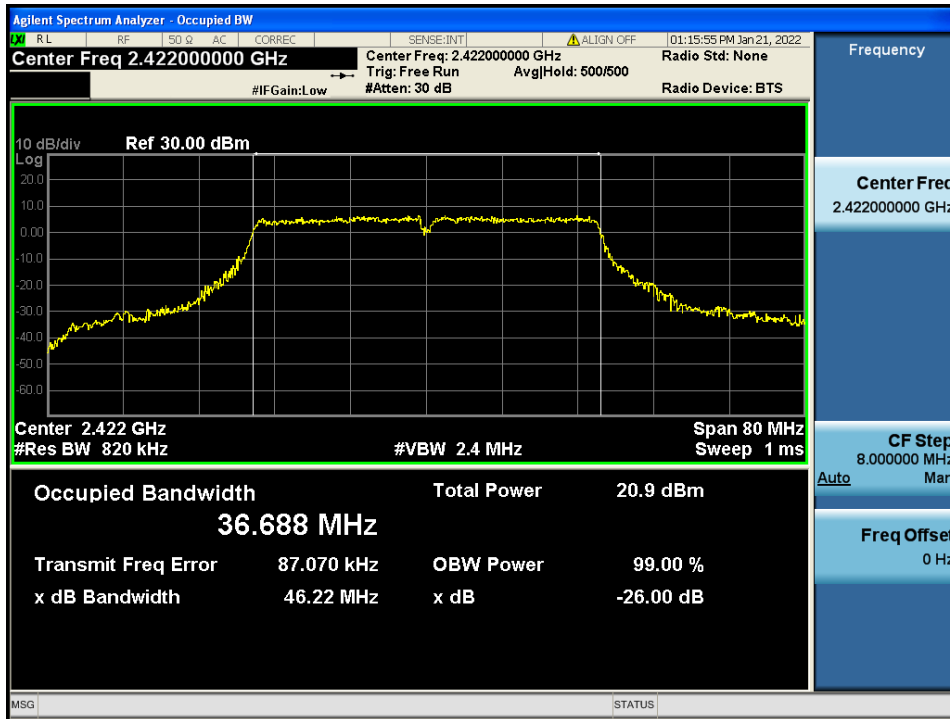
Occupied Bandwidth

TM 3 & 2 462



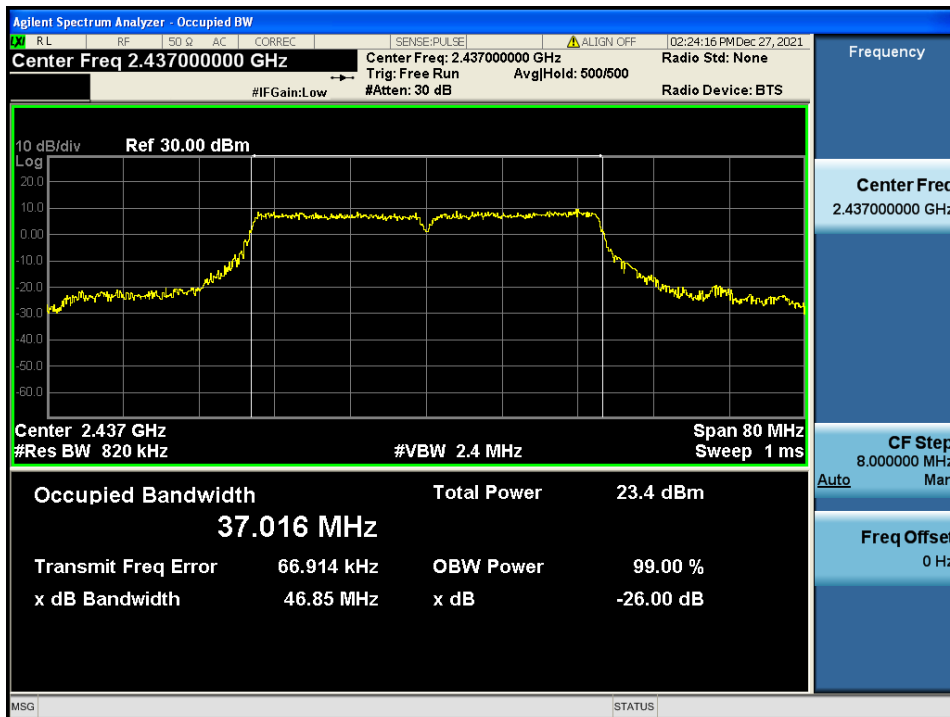
Occupied Bandwidth

TM 4 & 2422



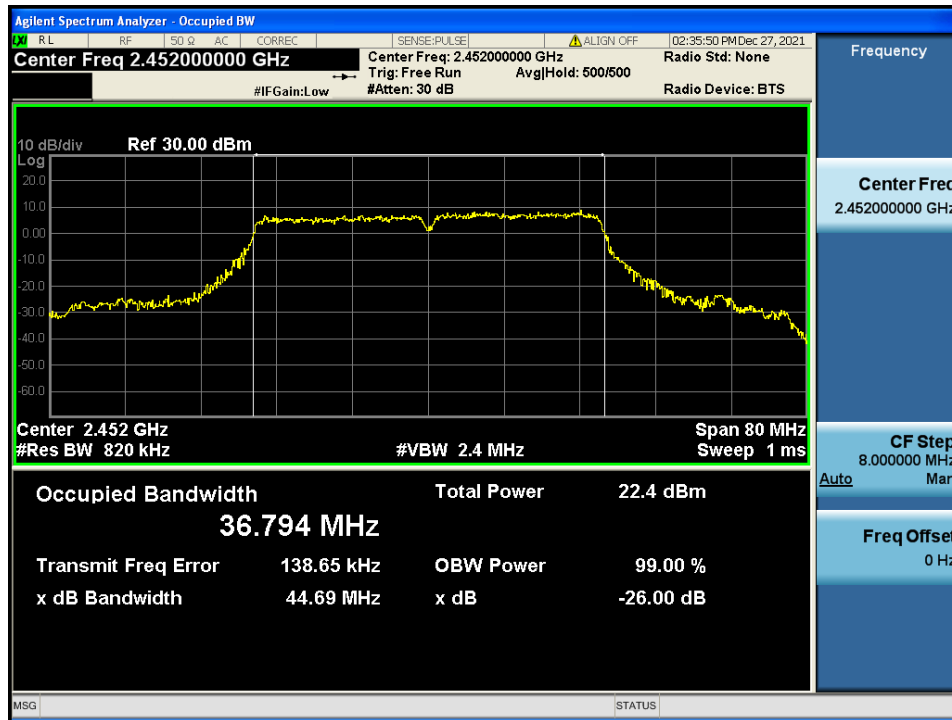
Occupied Bandwidth

TM 4 & 2437



Occupied Bandwidth

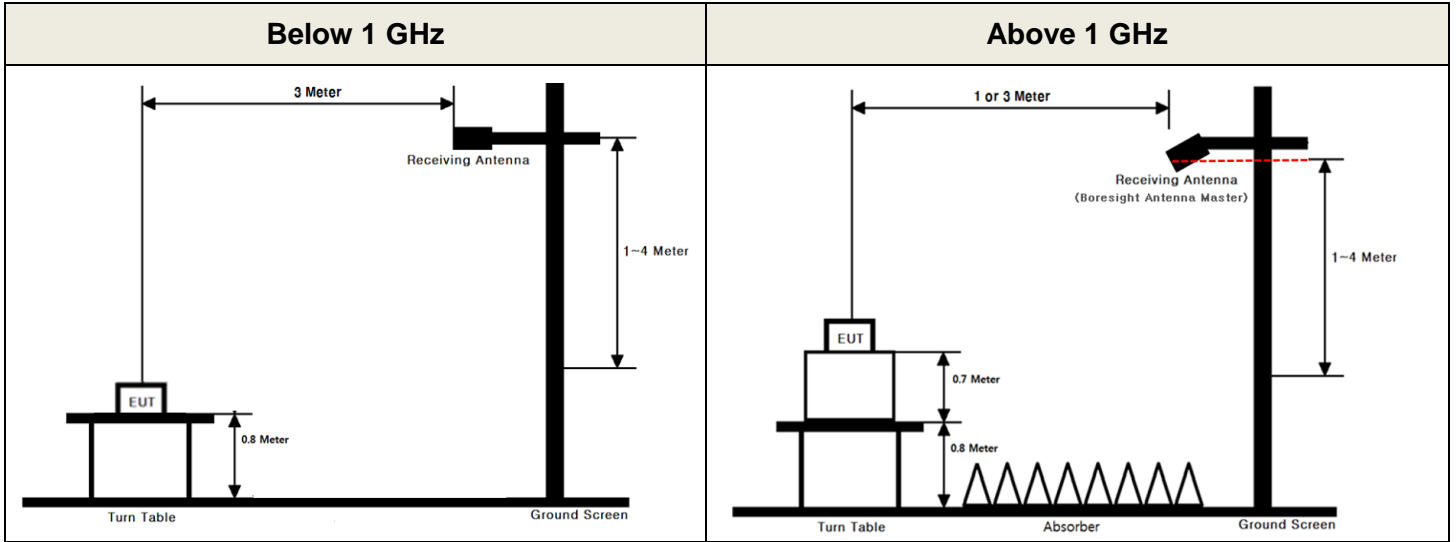
TM 4 & 2 452



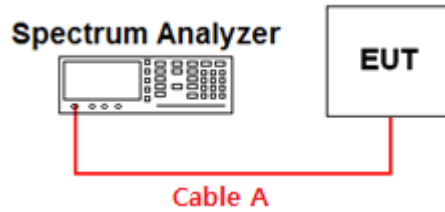
APPENDIX I

Test set up diagrams

▪ **Radiated Measurement**



▪ **Conducted Measurement**



APPENDIX II

Duty cycle plots

▪ Test Procedures

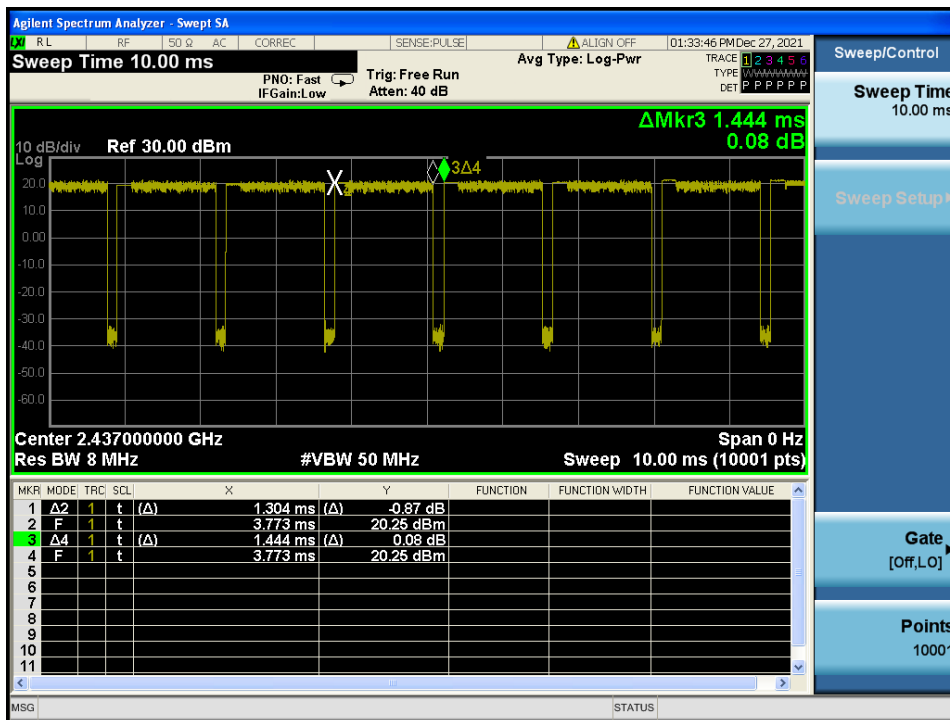
- KDB558074 D01v05r02 – Section 6

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.)

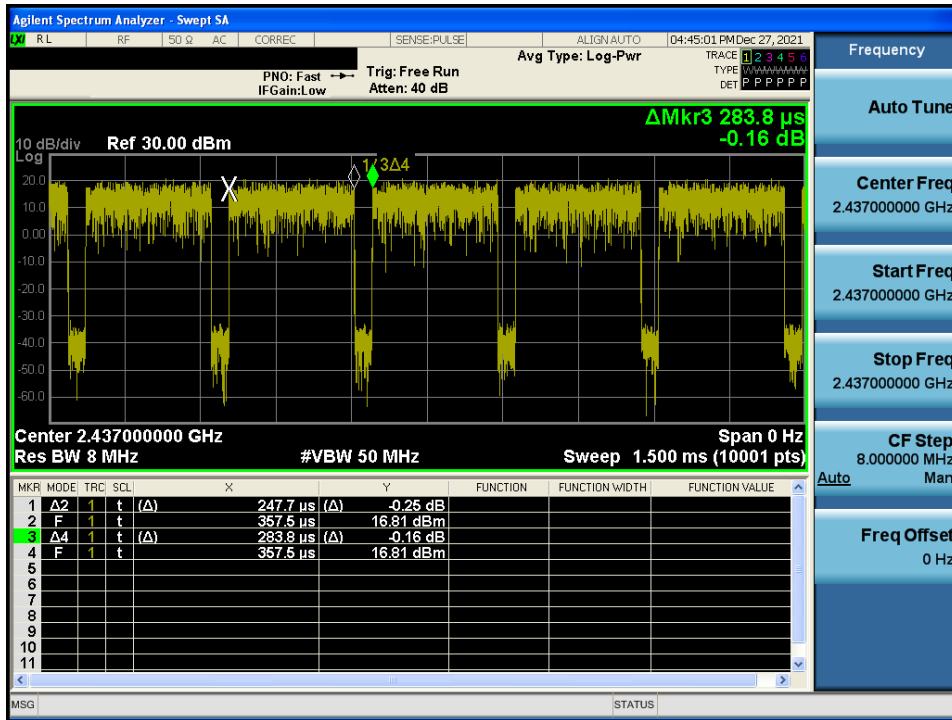
Duty Cycle

TM 1 & 2 437 MHz



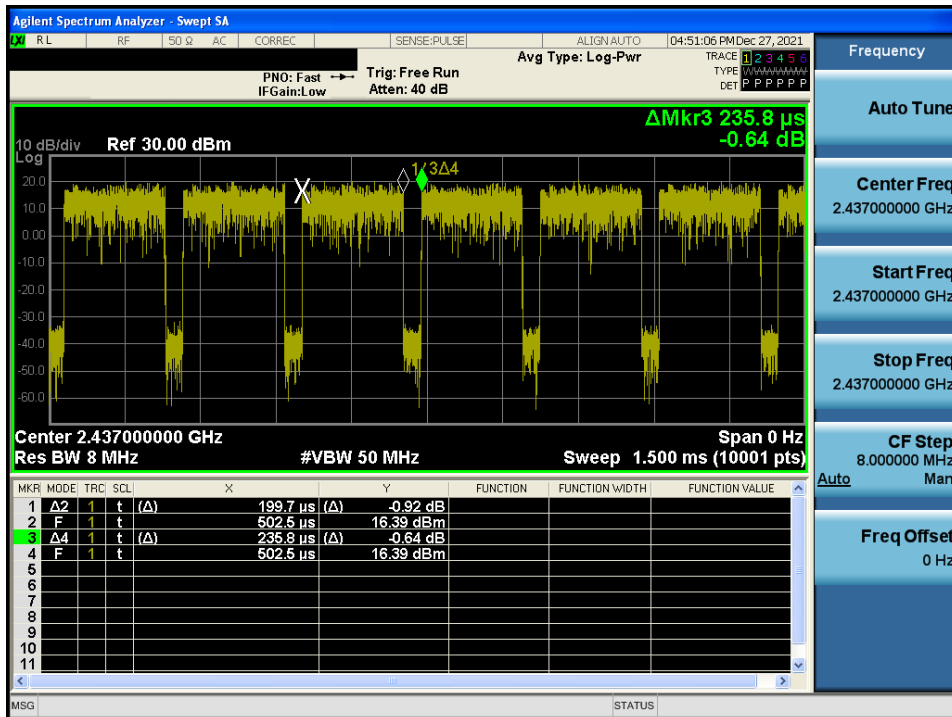
Duty Cycle

TM 2 & 2 437 MHz



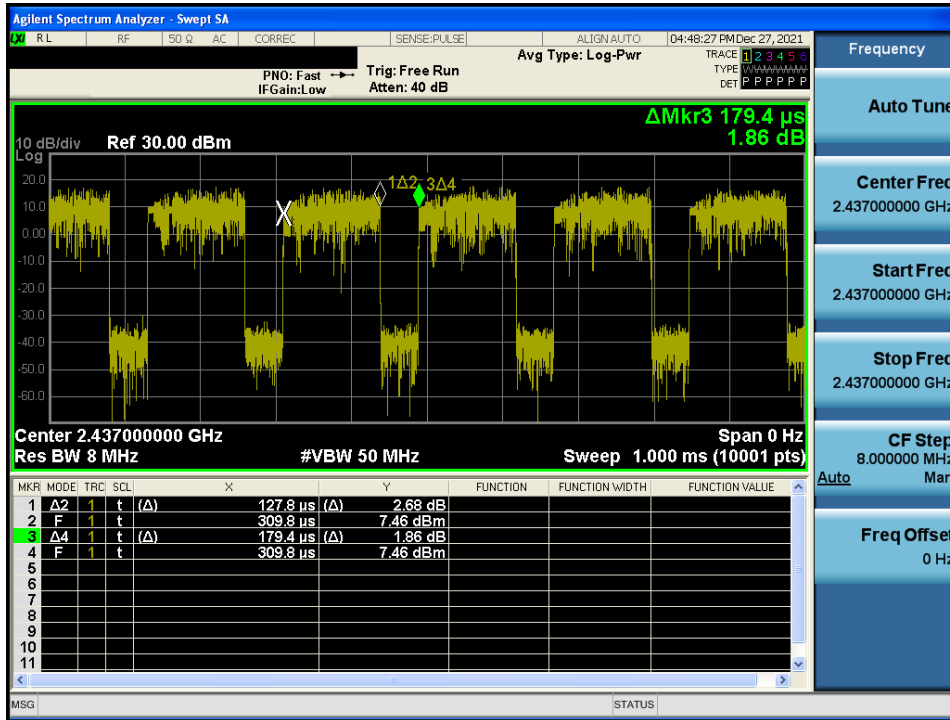
Duty Cycle

TM 3 & 2 437 MHz



Duty Cycle

TM 4 & 2 437 MHz

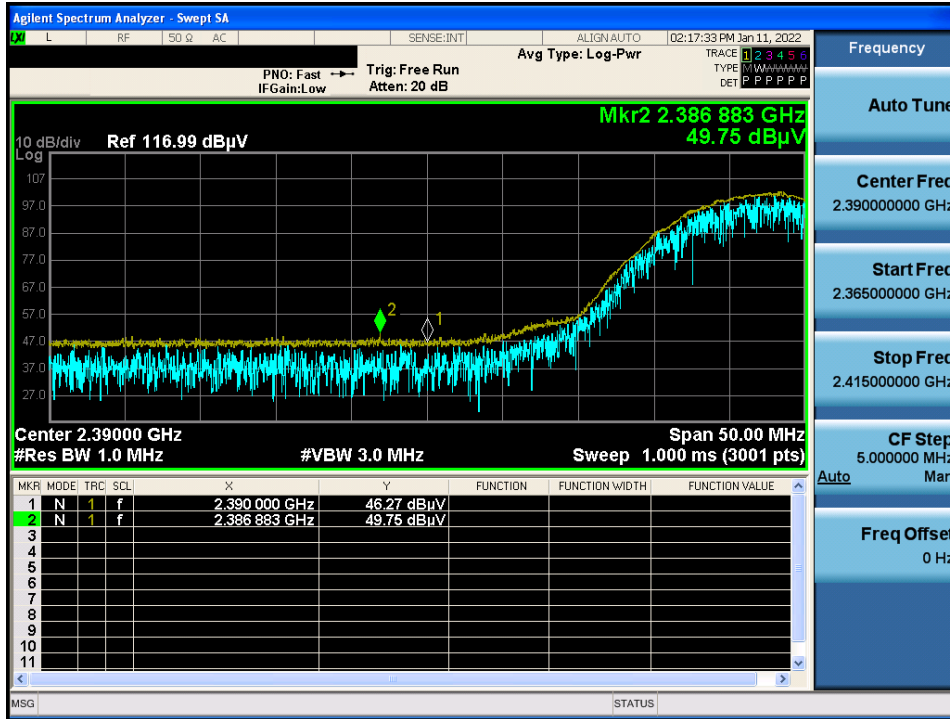


APPENDIX III

Unwanted Emissions (Radiated) Test Plot

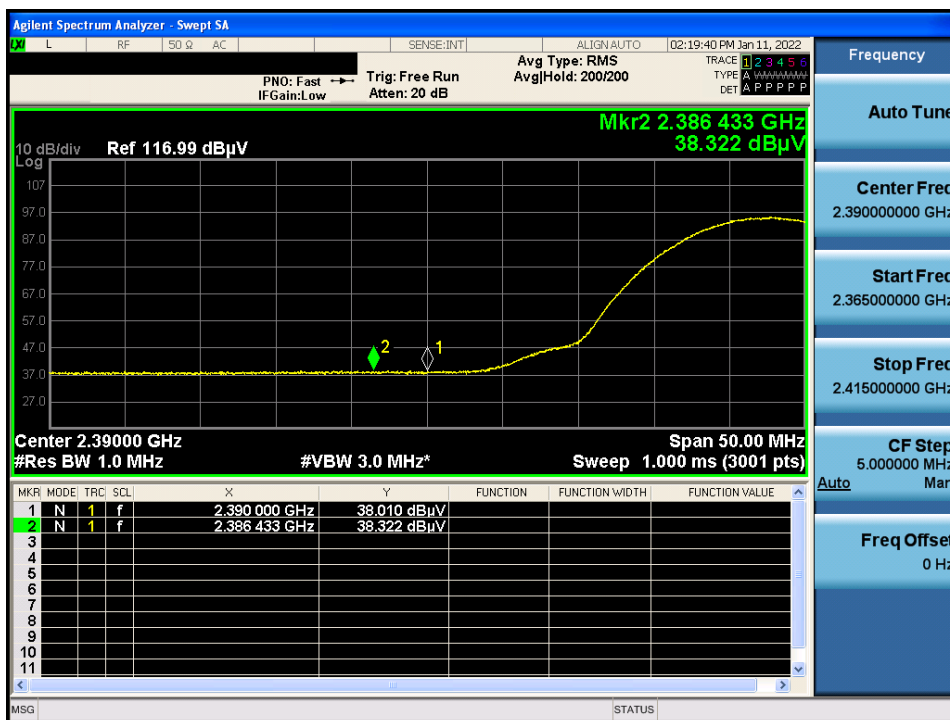
TM 1 & 2 412 & X axis & Hor

Detector Mode : PK



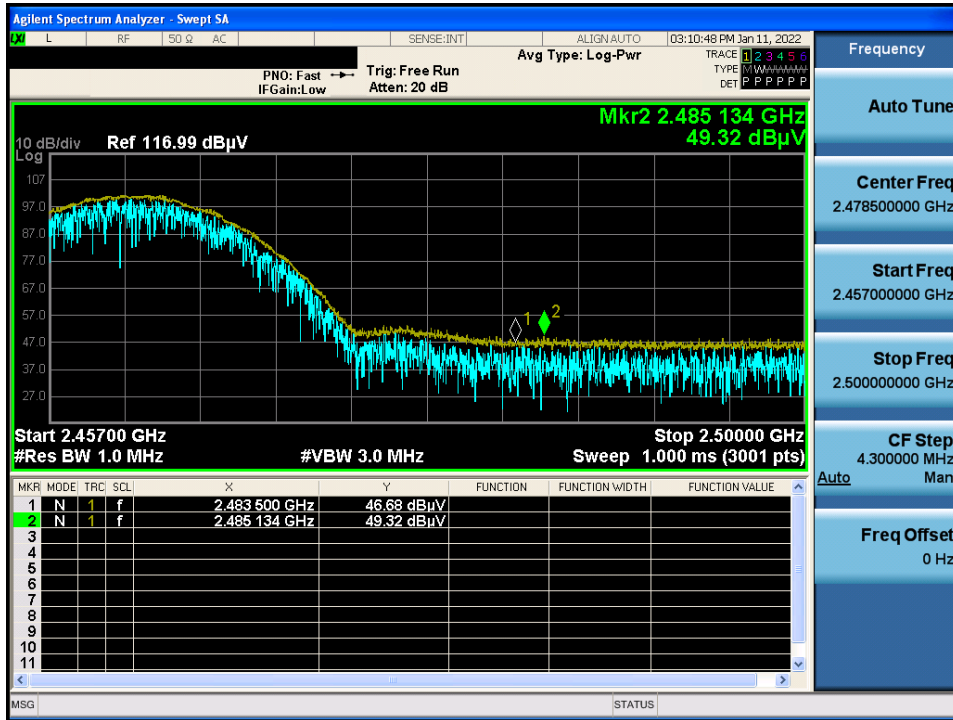
TM 1 & 2 412 & X axis & Hor

Detector Mode : AV



TM 1 & 2 462 & X axis & Hor

Detector Mode : PK



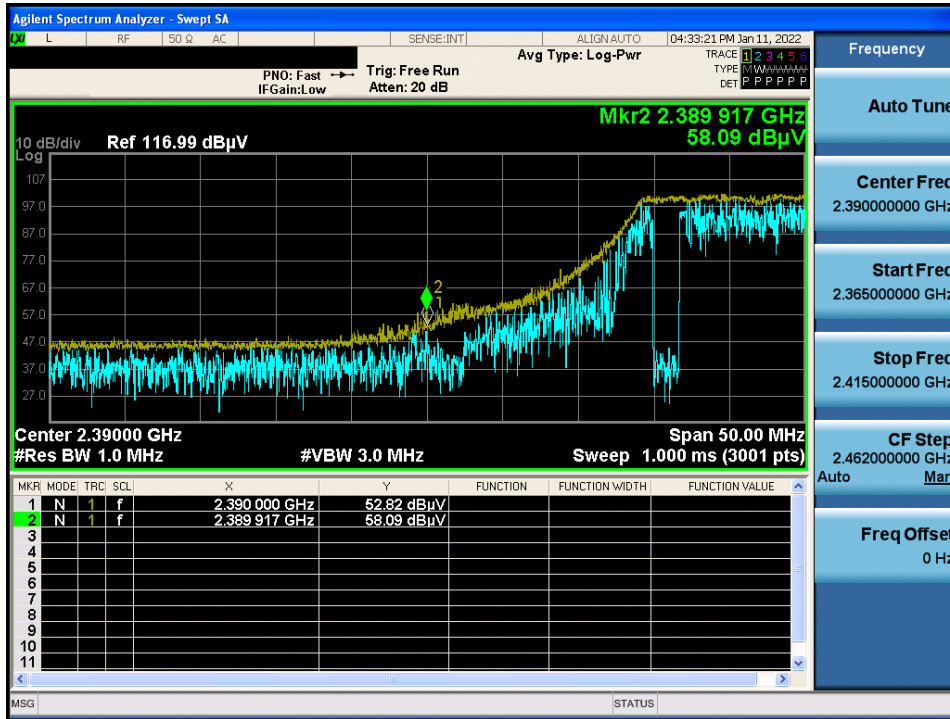
TM 1 & 2 462 & X axis & Hor

Detector Mode : AV



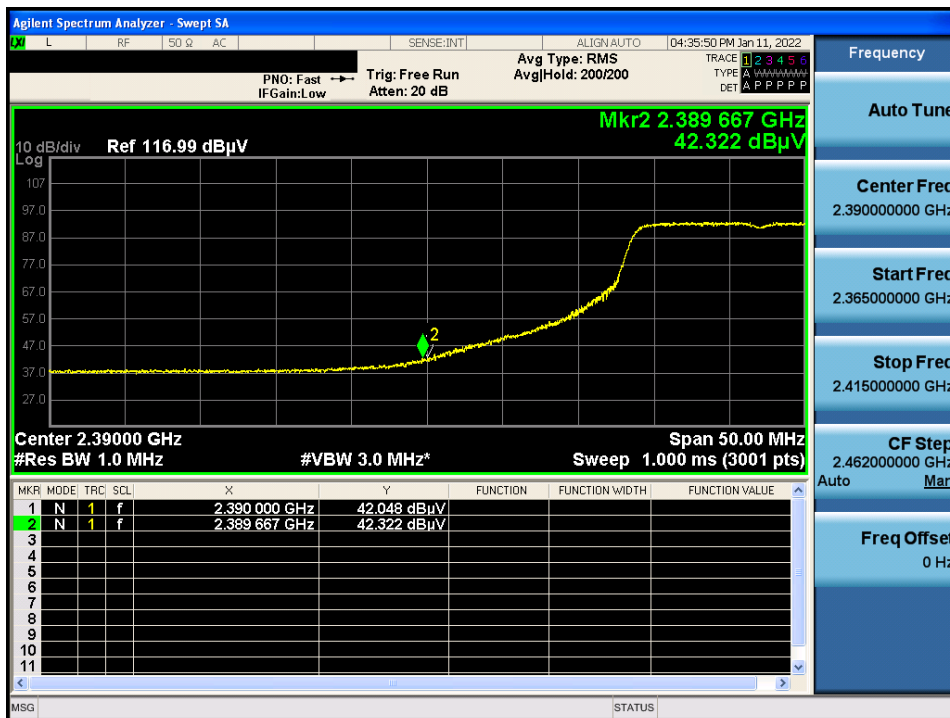
TM 2 & 2 412 & X axis & Ver

Detector Mode : PK



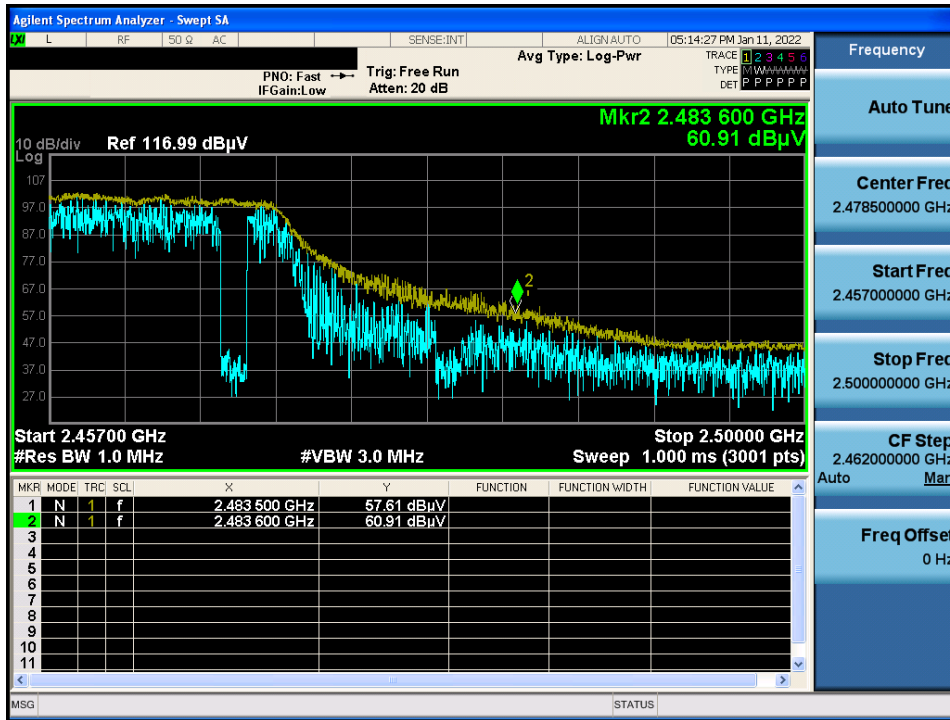
TM 2 & 2 412 & X axis & Ver

Detector Mode : AV



TM 2 & 2 462 & X axis & Ver

Detector Mode : PK



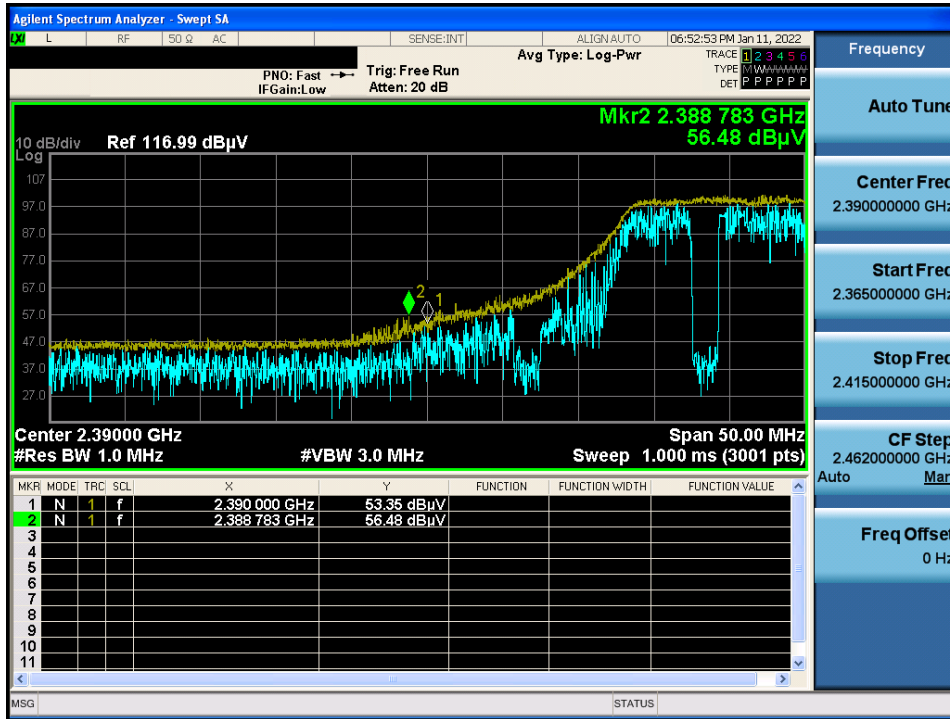
TM 2 & 2 462 & X axis & Ver

Detector Mode : AV



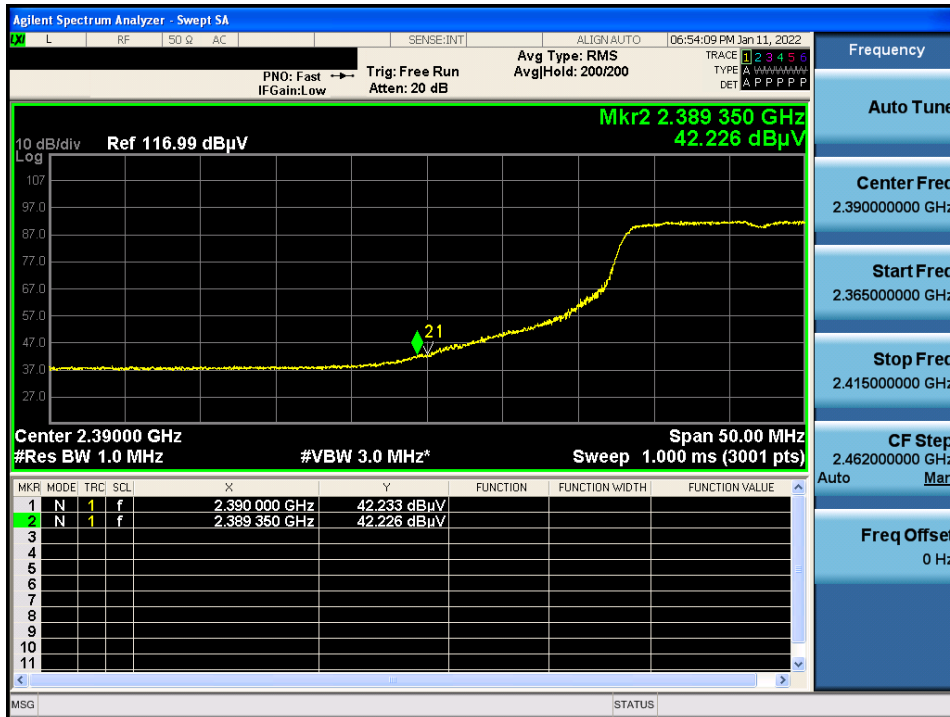
TM 3 & 2 412 & X axis & Ver

Detector Mode : PK



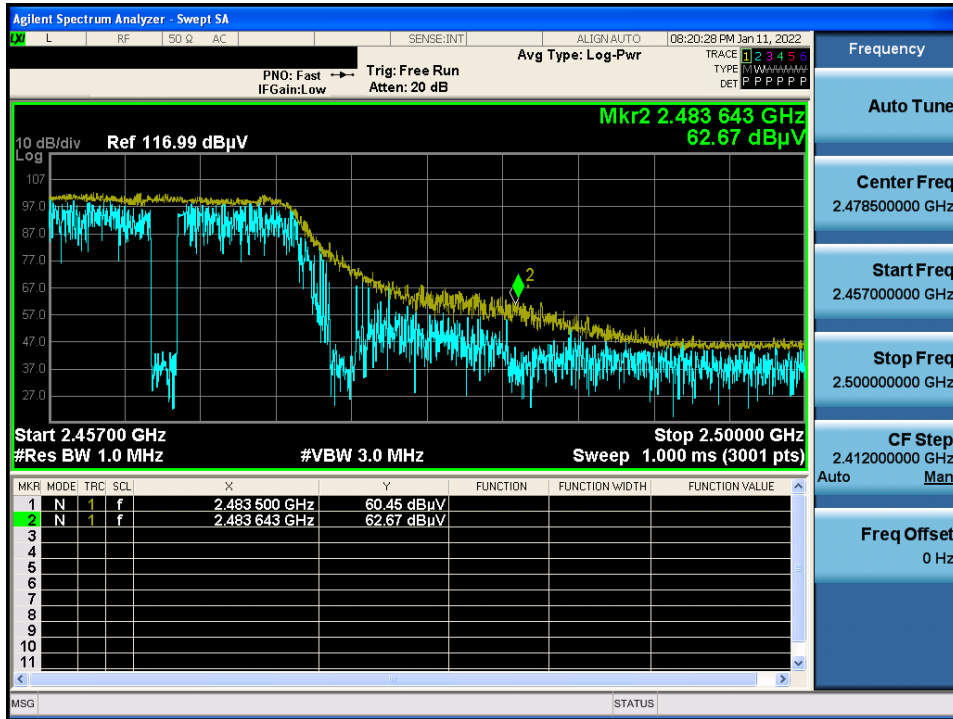
TM 3 & 2 412 & X axis & Ver

Detector Mode : AV



TM 3 & 2 462 & X axis & Ver

Detector Mode : PK



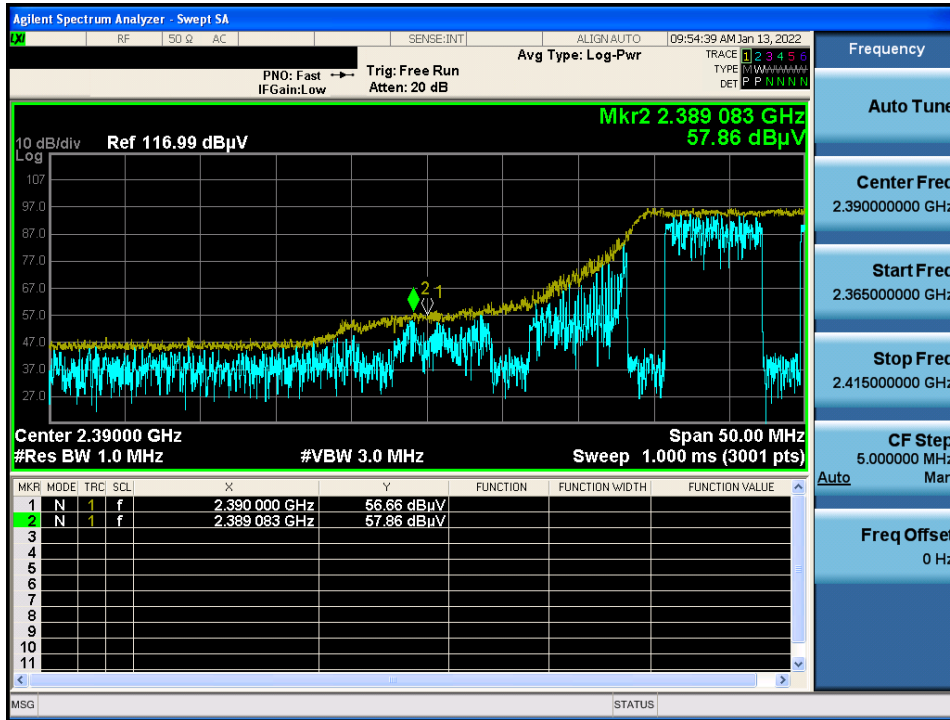
TM 3 & 2 462 & X axis & Ver

Detector Mode : AV



TM 4 & 2 422 & X axis & Ver

Detector Mode : PK



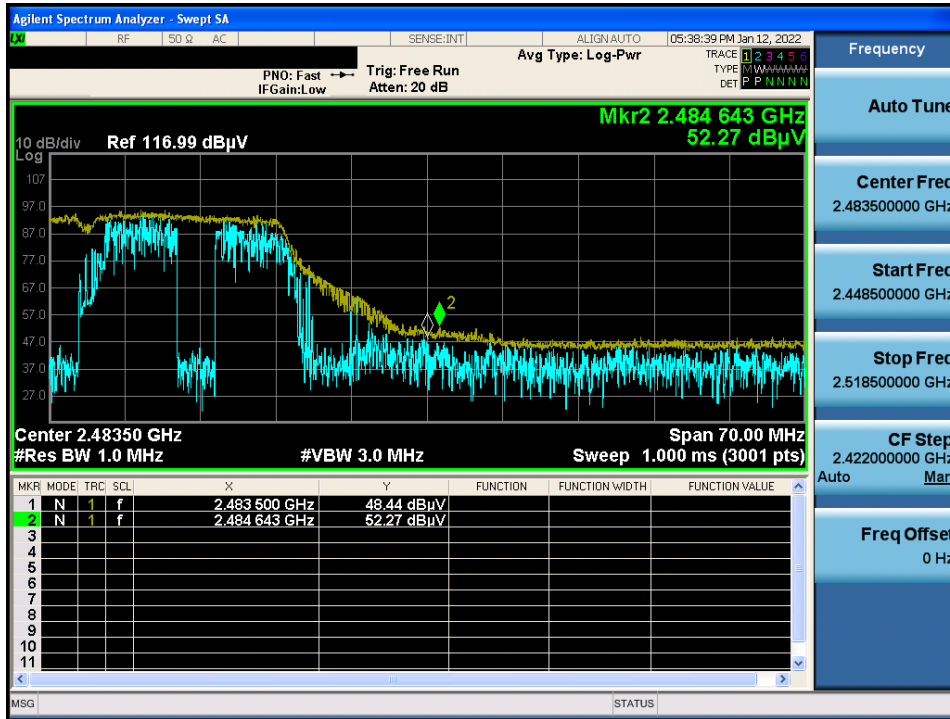
TM 4 & 2 422 & X axis & Ver

Detector Mode : AV



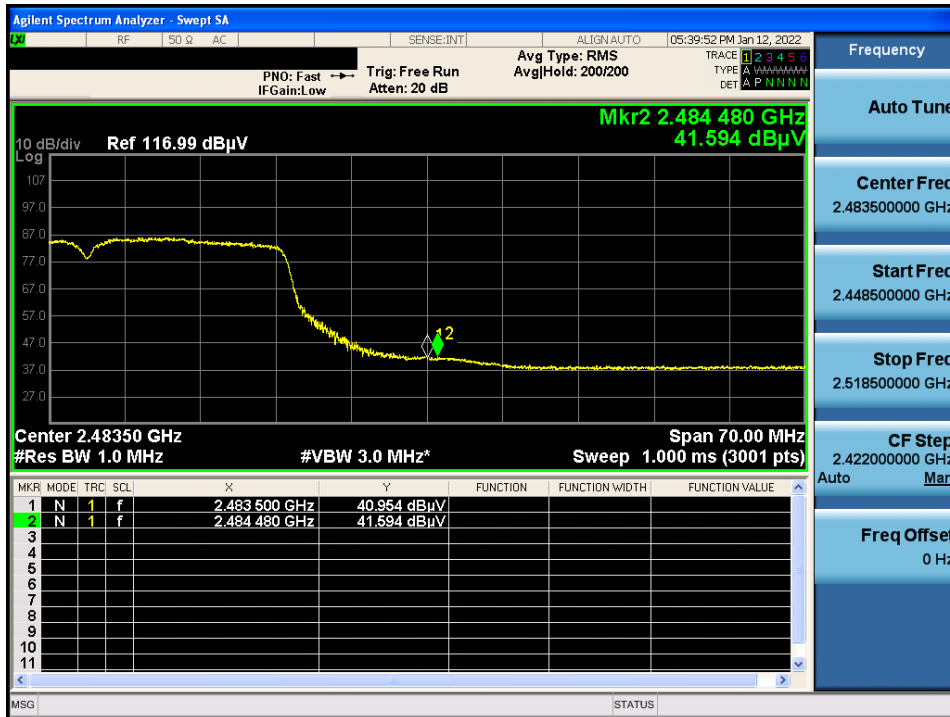
TM 4 & 2 452 & X axis & Ver

Detector Mode : PK



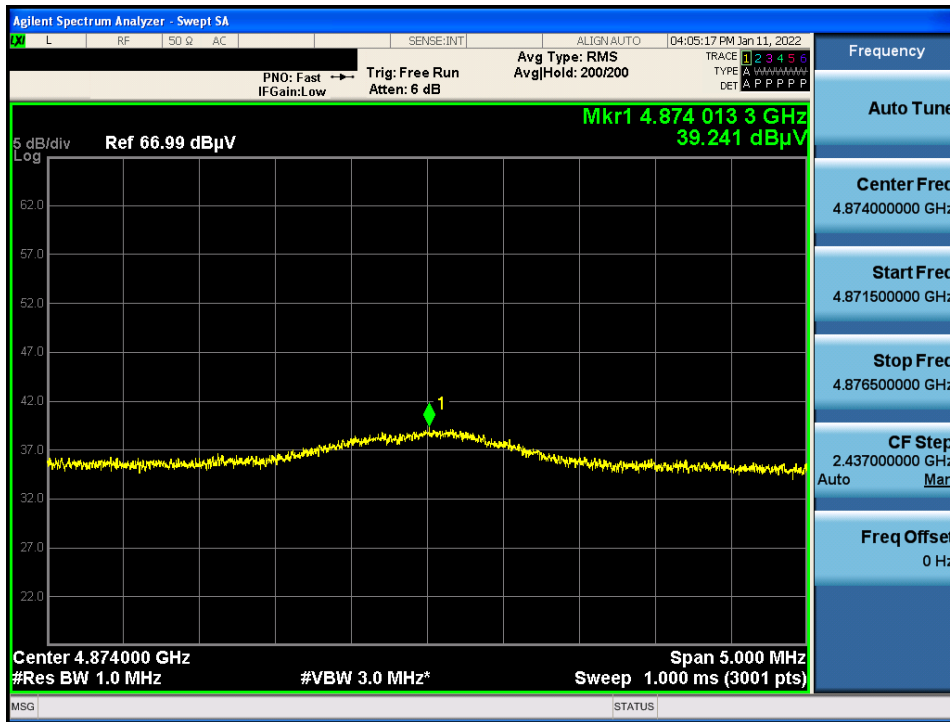
TM 4 & 2 452 & X axis & Ver

Detector Mode : AV



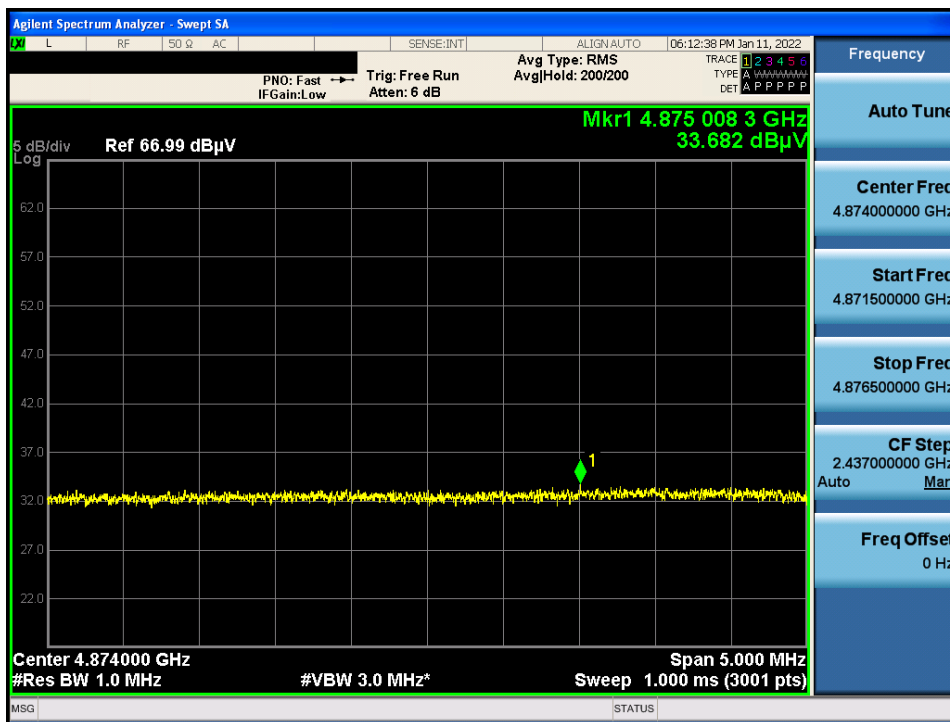
TM 1 & 2 437 & Y axis & Hor

Detector Mode : AV



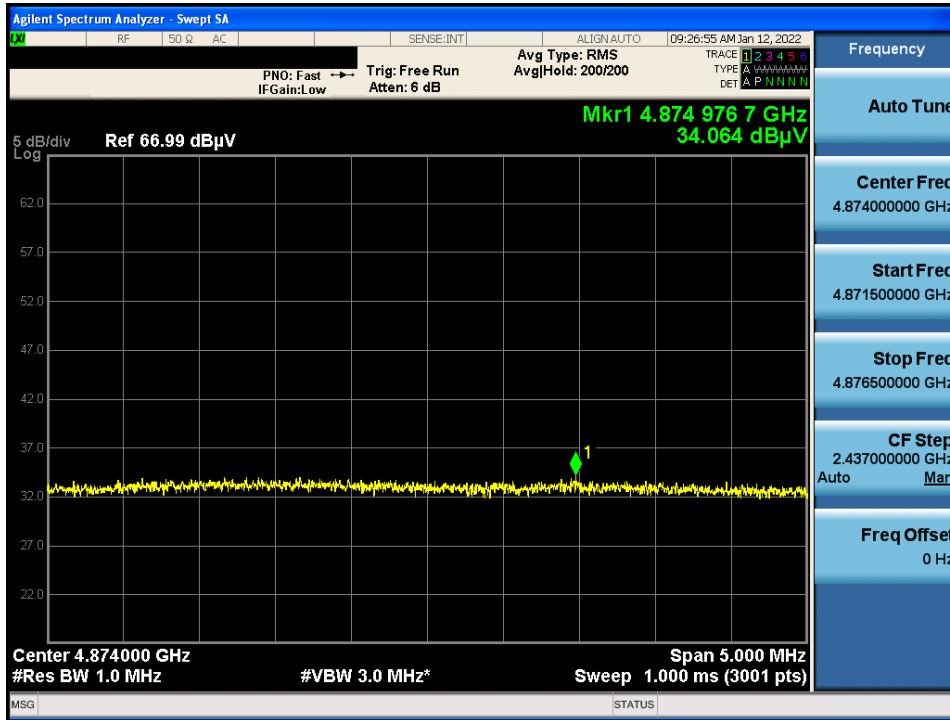
TM 2 & 2 437 & Z axis & Ver

Detector Mode : AV



TM 3 & 2 437 & Y axis & Hor

Detector Mode : AV



TM 4 & 2 422 & X axis & Ver

Detector Mode : AV

