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

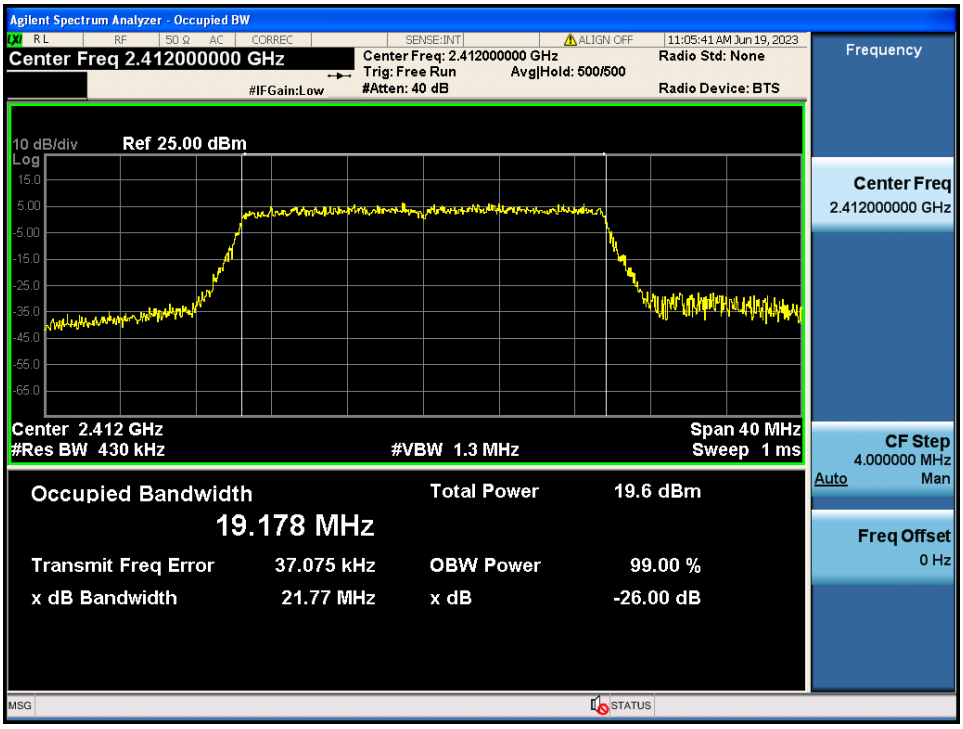
TM 1

ANT	Tones	RU Index	Test Results[MHz]		
			2 412	2 437	2 462
ANT 1	26	0	18.57	18.25	17.94
		4	17.17	15.76	16.76
		8	18.62	18.59	18.56
	242	61	**19.18**	**19.35**	**19.18**
	SU		18.97	19.08	18.99
ANT 2	26	0	18.36	18.63	18.11
		4	16.76	17.04	16.43
		8	18.60	17.89	18.65
	242	61	**19.13**	**19.29**	**19.10**
	SU		18.97	19.11	18.89

Note 1: The worst-case plots(Maximum Occupied Bandwidth) were attached to the next page.

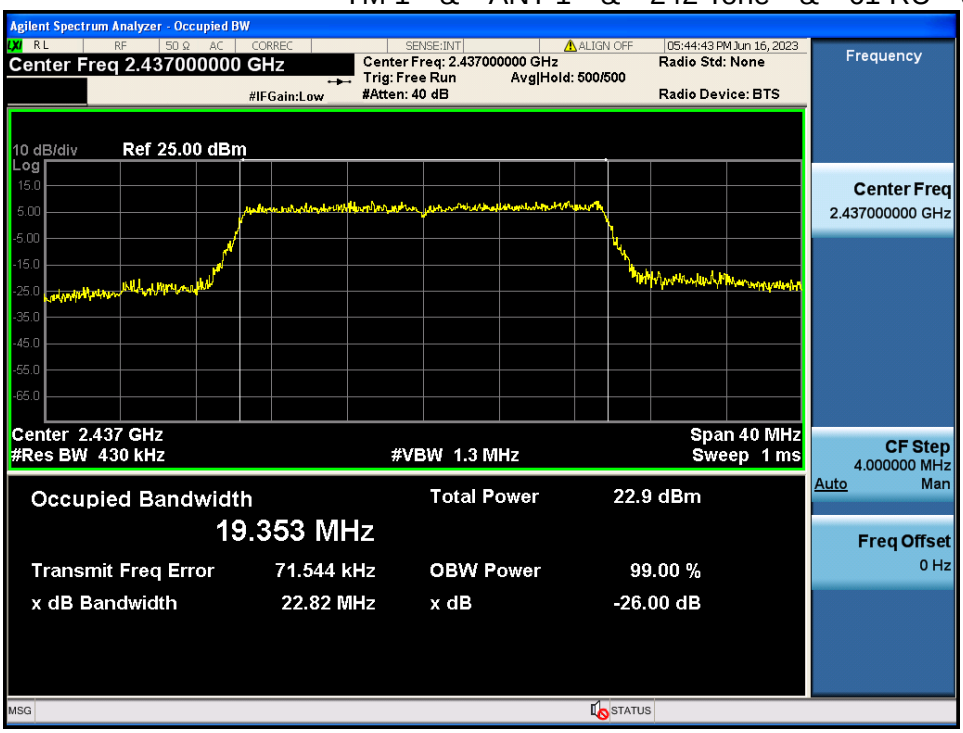
Occupied Bandwidth

TM 1 & ANT 1 & 242 Tone & 61 RU & 2 412

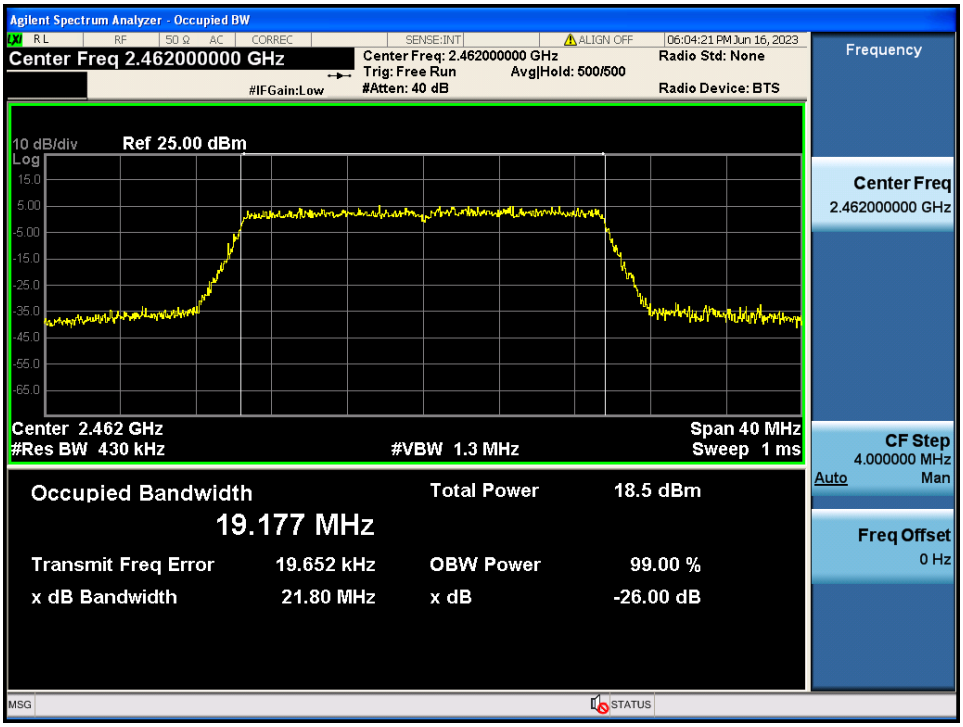


Occupied Bandwidth

TM 1 & ANT 1 & 242 Tone & 61 RU & 2 437

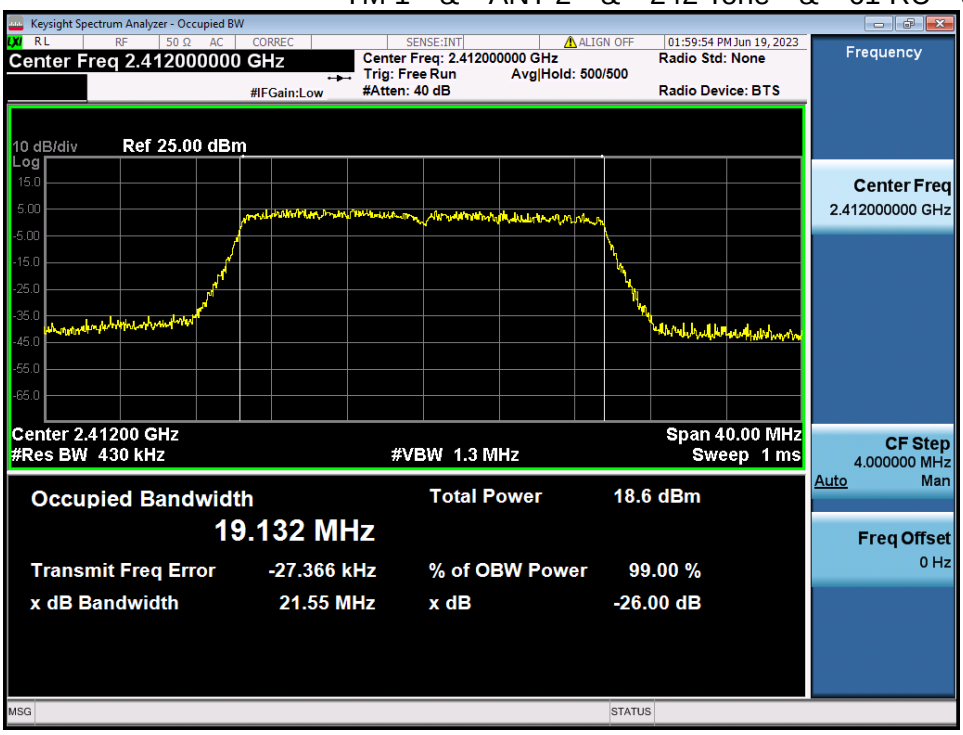


Occupied Bandwidth TM 1 & ANT 1 & 242 Tone & 61 RU & 2 462



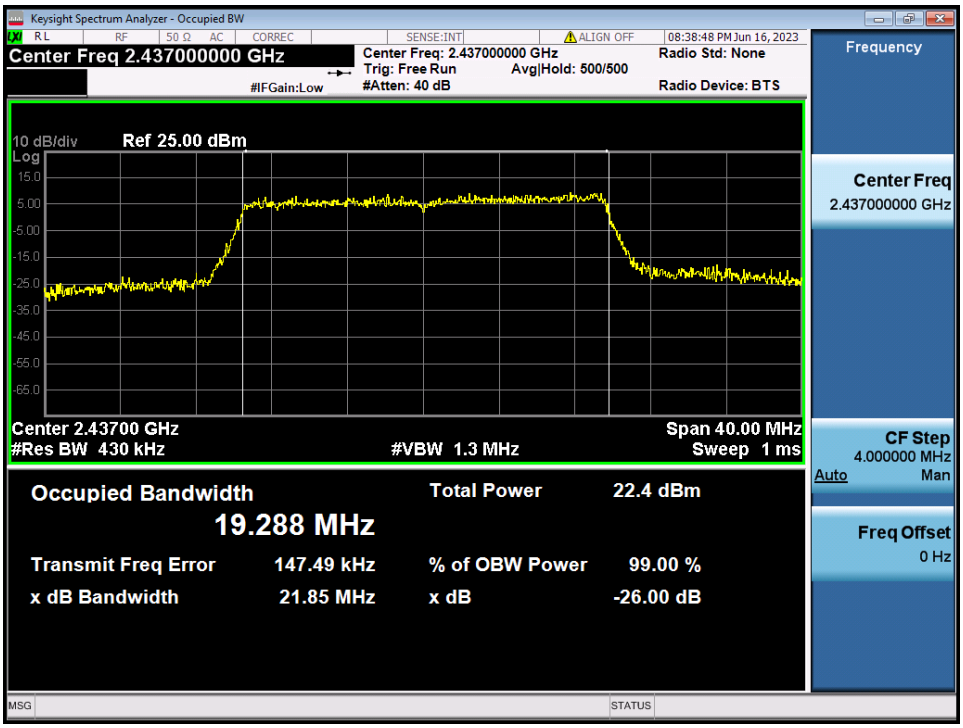
Occupied Bandwidth

TM 1 & ANT 2 & 242 Tone & 61 RU & 2 412

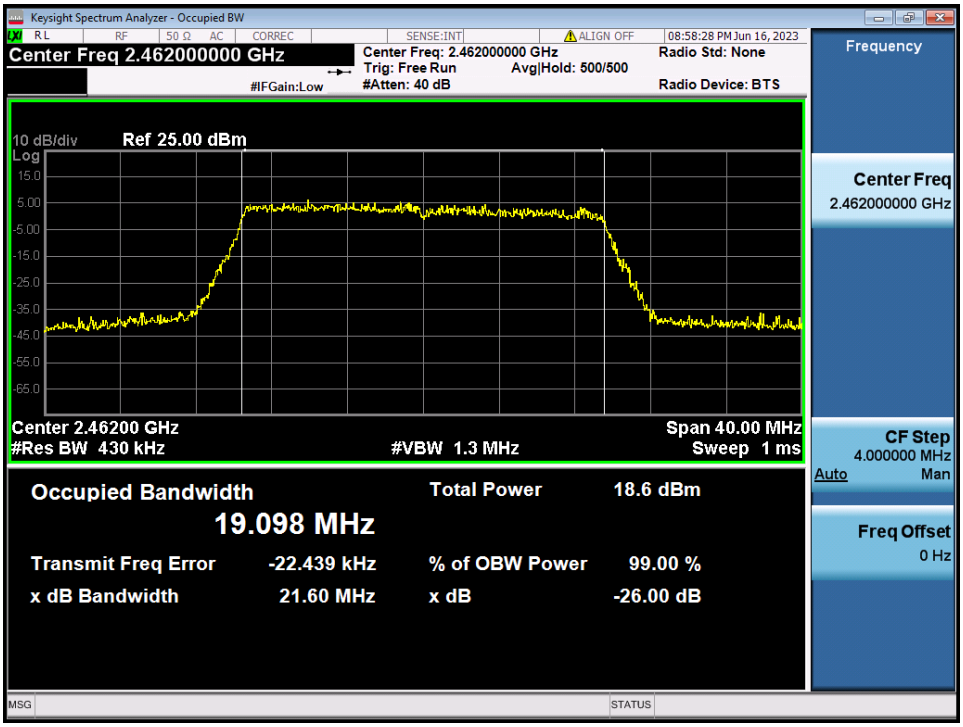


Occupied Bandwidth

TM 1 & ANT 2 & 242 Tone & 61 RU & 2 437



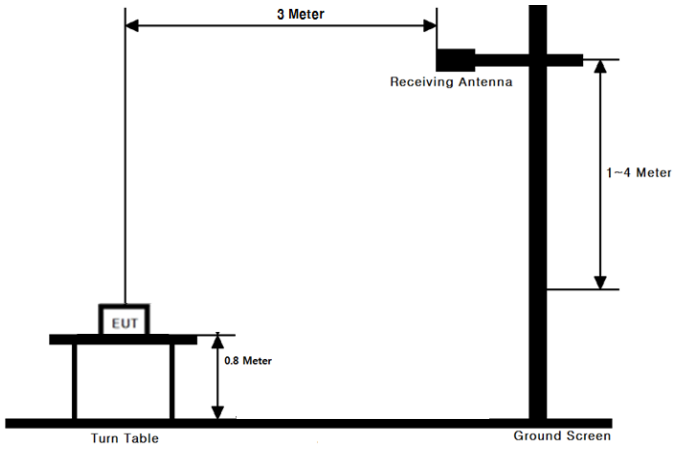
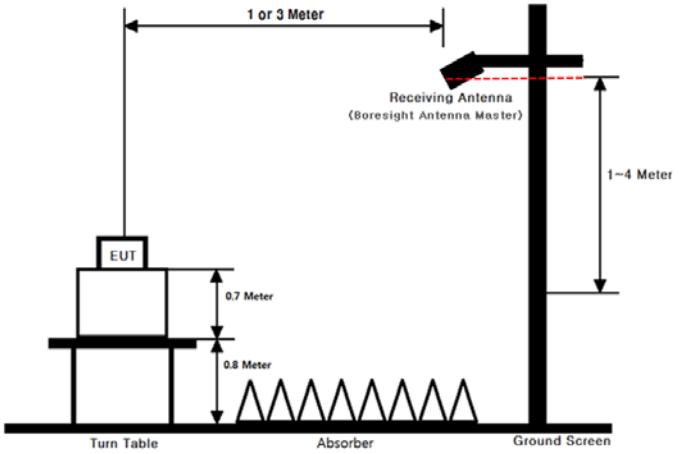
Occupied Bandwidth TM 1 & ANT 2 & 242 Tone & 61 RU & 2 462



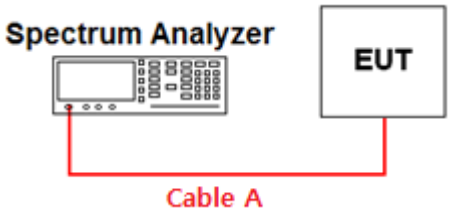
APPENDIX I

Test set up diagrams

- **Radiated Measurement**

Below 1 GHz	Above 1 GHz
	

- **Conducted Measurement**



APPENDIX II

Duty cycle plots

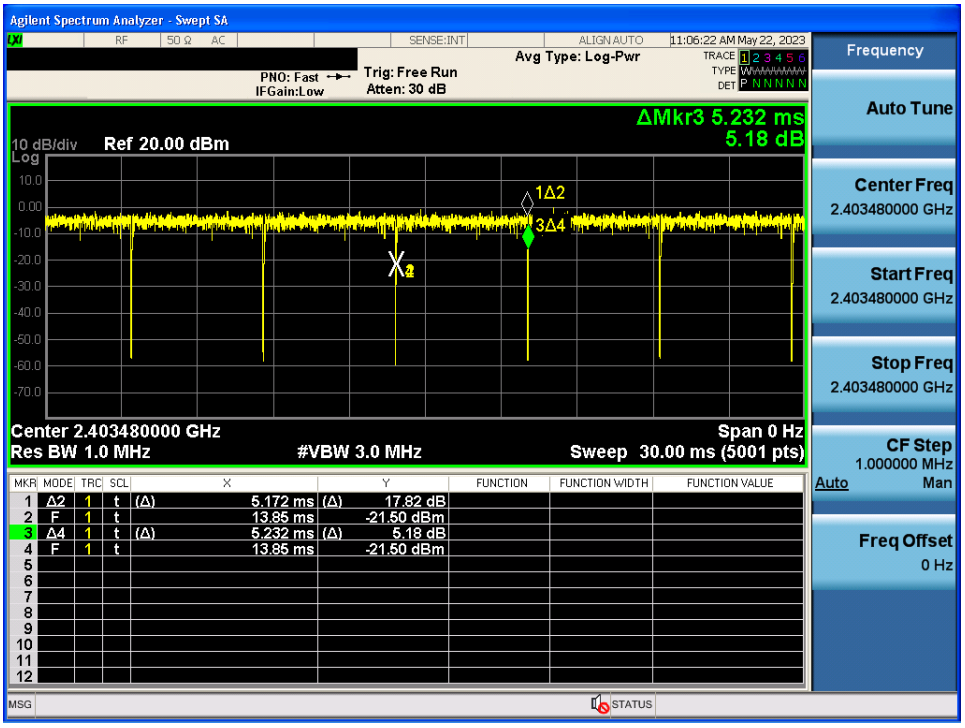
- **Test Procedures**

- KDB558074 D01v05r02 – Section 6

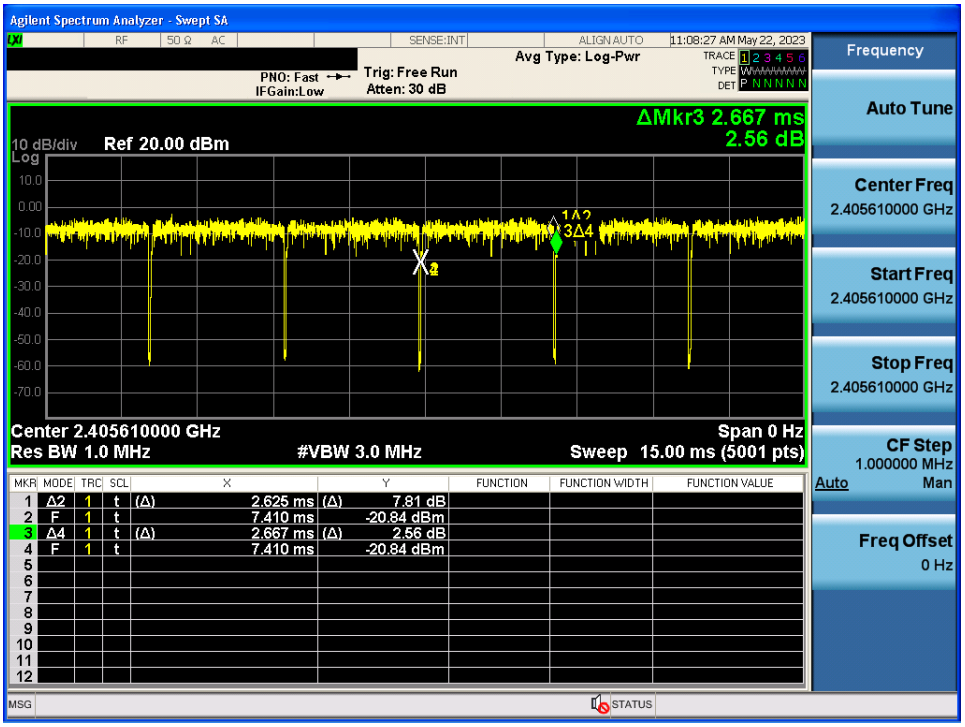
The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ 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 ≤ 16.7 microseconds.)

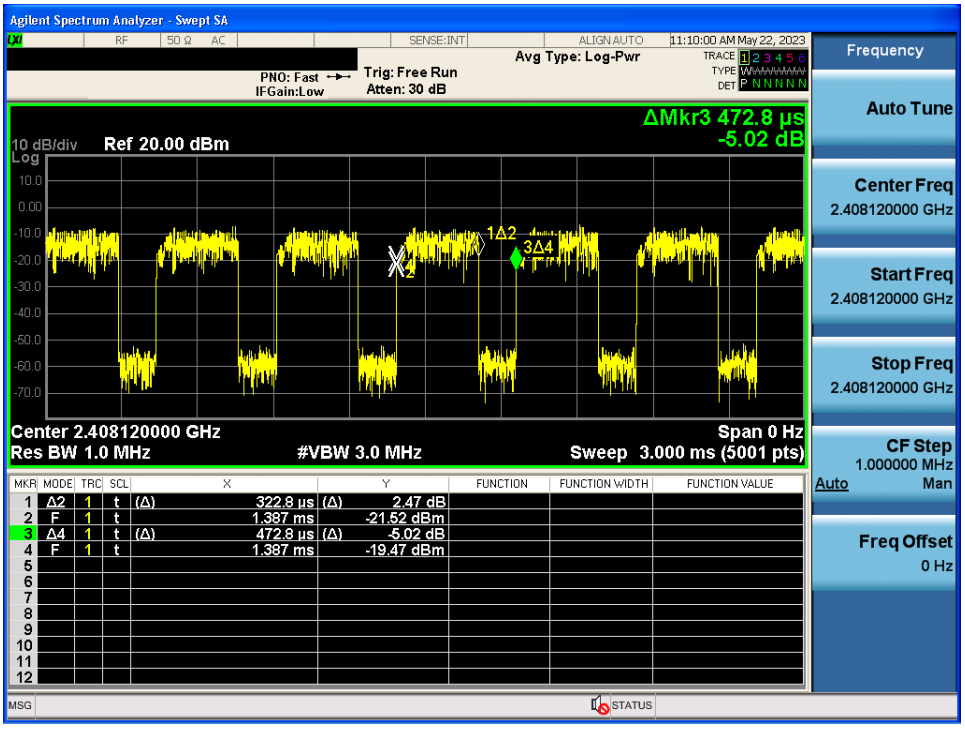
Duty Cycle TM 1 & MIMO & 2 412 MHz & & MCS 0 & 26 Tone



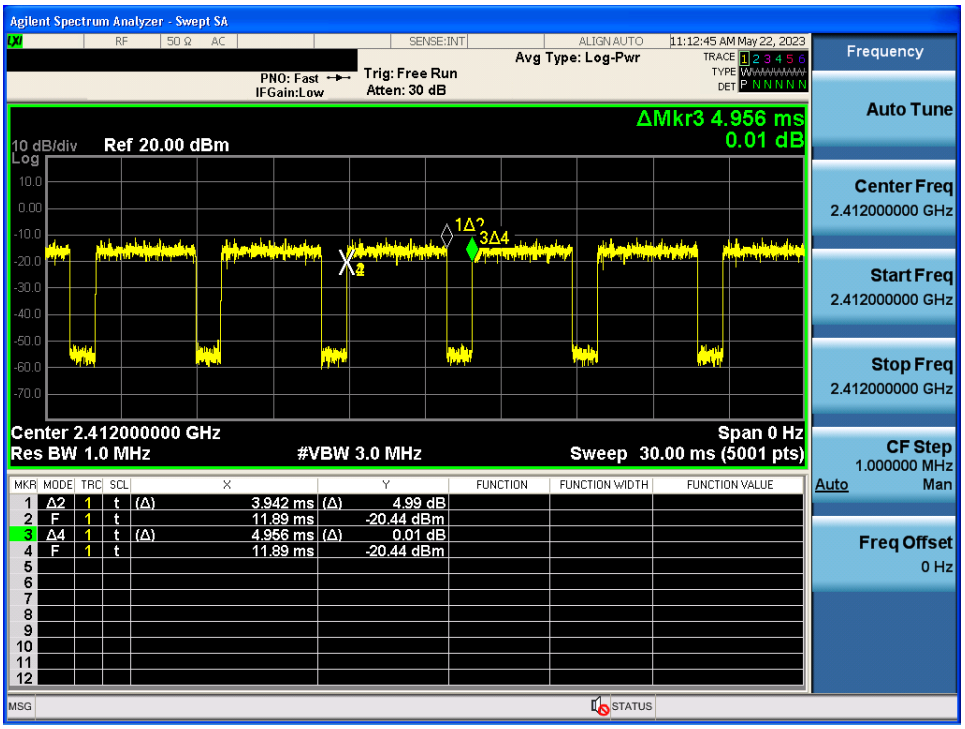
Duty Cycle TM 1 & MIMO & 2 412 MHz & & MCS 0 & 52 Tone



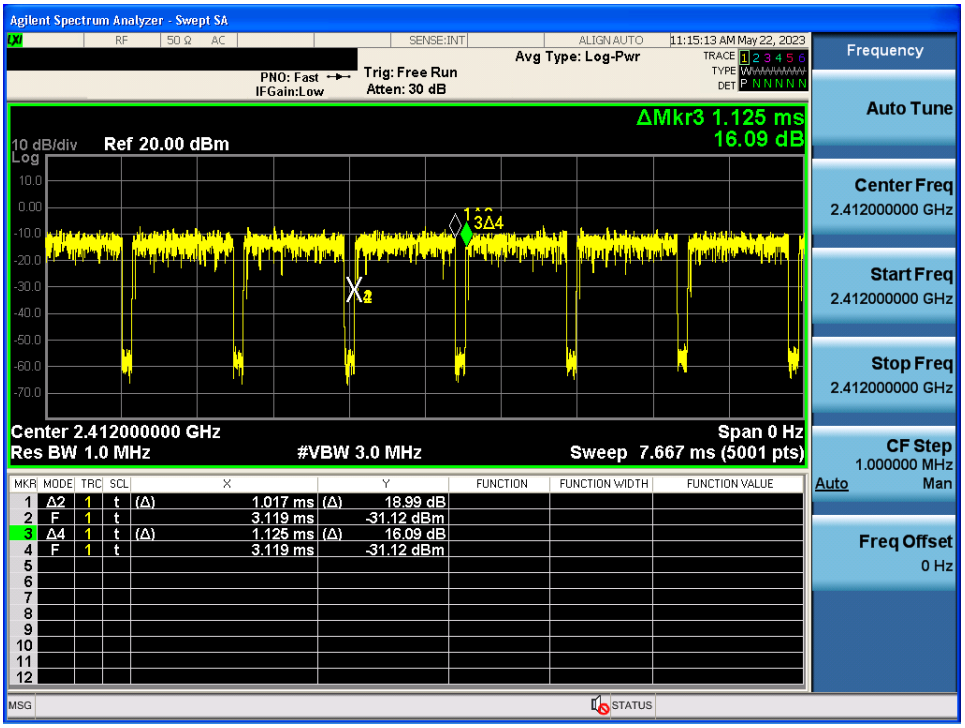
Duty Cycle TM 1 & MIMO & 2 412 MHz & & MCS 0 & 106 Tone



Duty Cycle TM 1 & MIMO & 2 412 MHz & & MCS 0 & 242 Tone



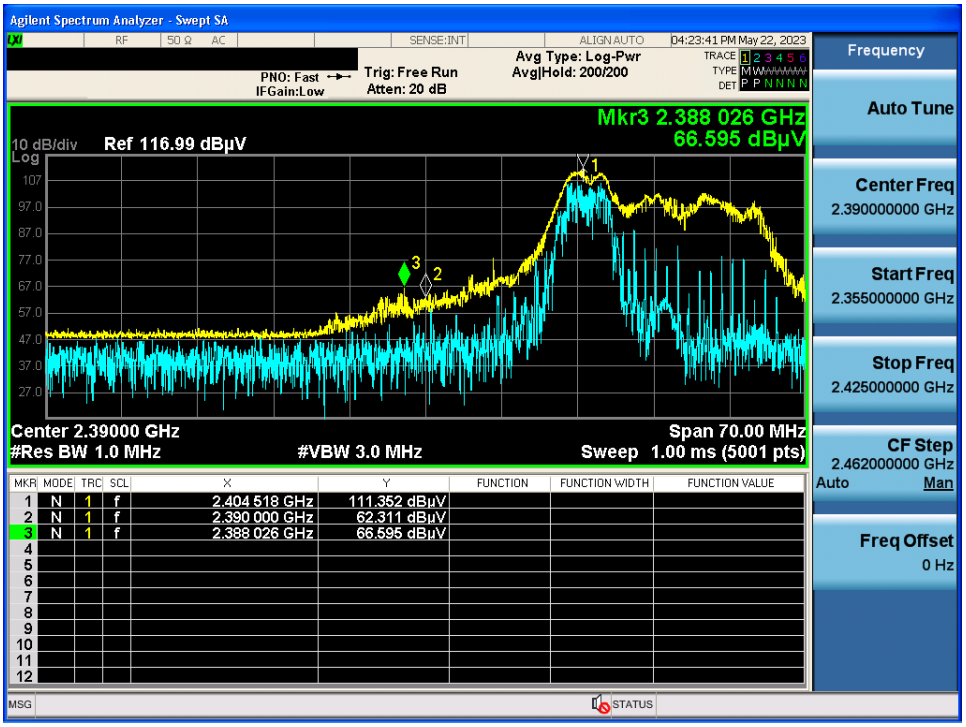
Duty Cycle TM 1 & MIMO & 2 412 MHz & MCS 0 & SU



APPENDIX III

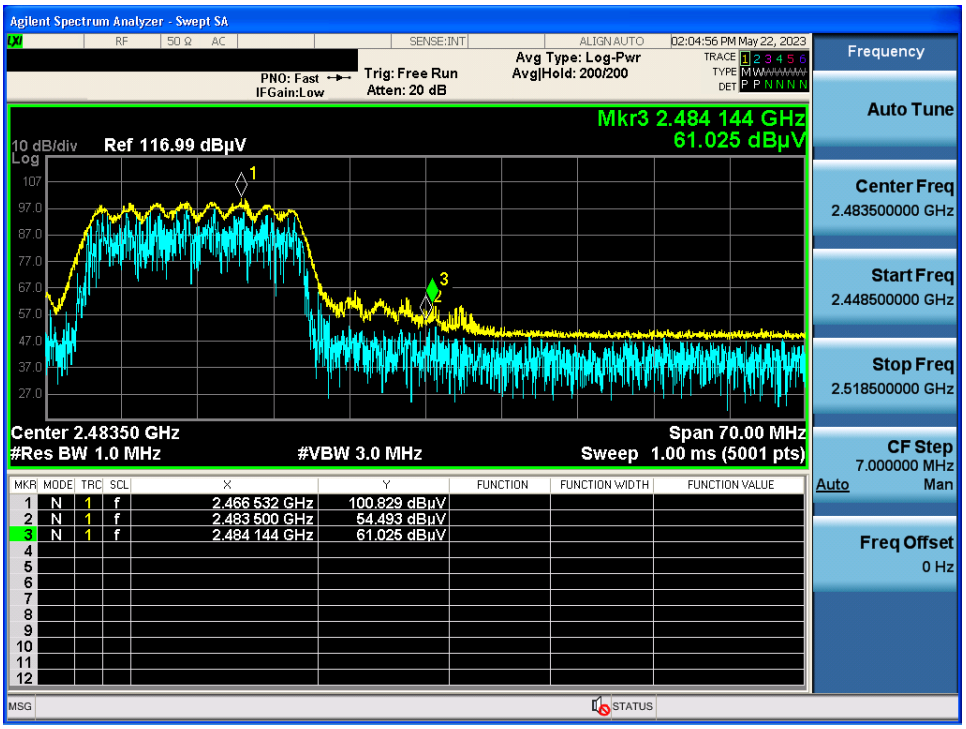
Unwanted Emissions (Radiated) Test Plot

TM 1 & 52 Tone & 37 RU 2 412 & X axis & Hor **Detector Mode : PK**

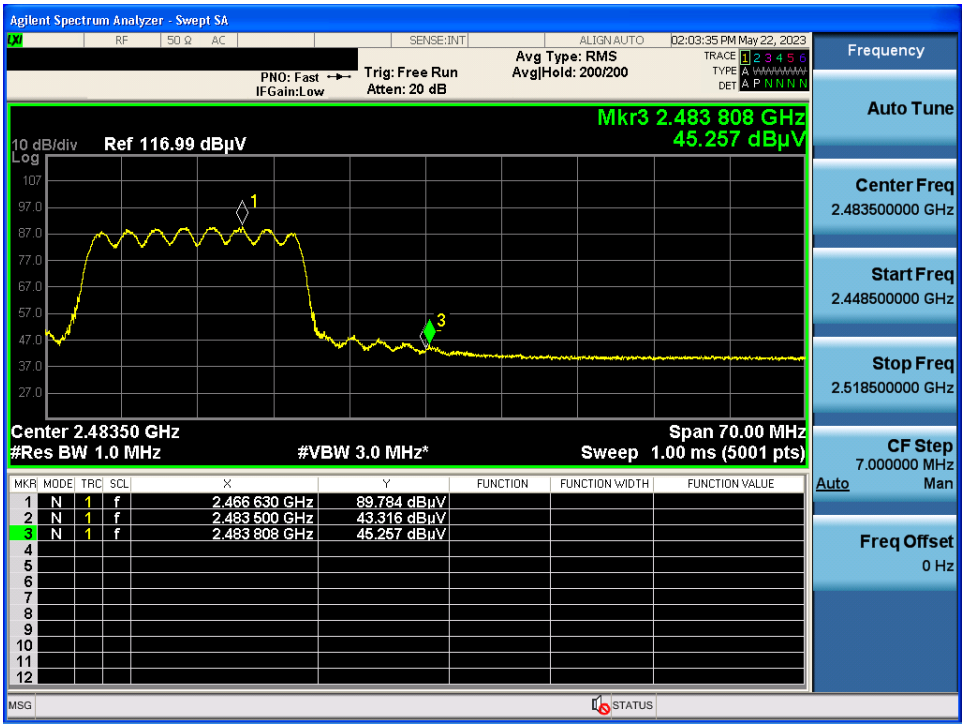
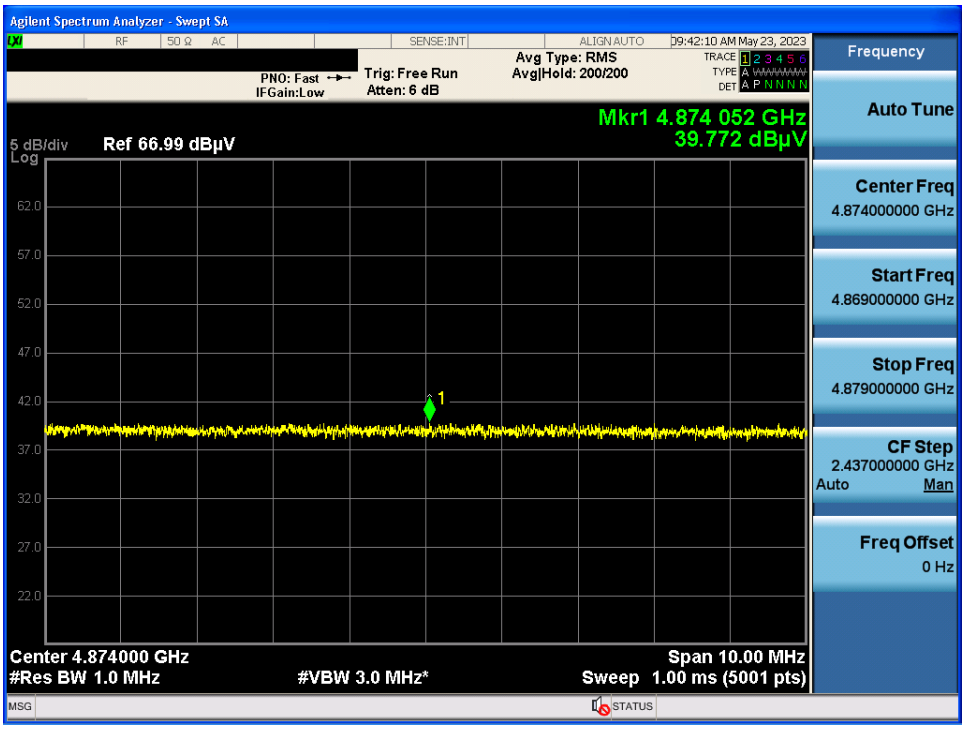


TM 1 & 52 Tone & 37 RU 2 412 & X axis & Hor **Detector Mode : AV**

TM 1 & 242 Tone & 61 RU 2 462 & X axis & Hor **Detector Mode : PK**



TM 1 & 242 Tone & 61 RU 2 462 & X axis & Hor **Detector Mode : AV**



TM 1 & 242 Tone & 61 RU 2 437 & X axis & Hor **Detector Mode : AV**