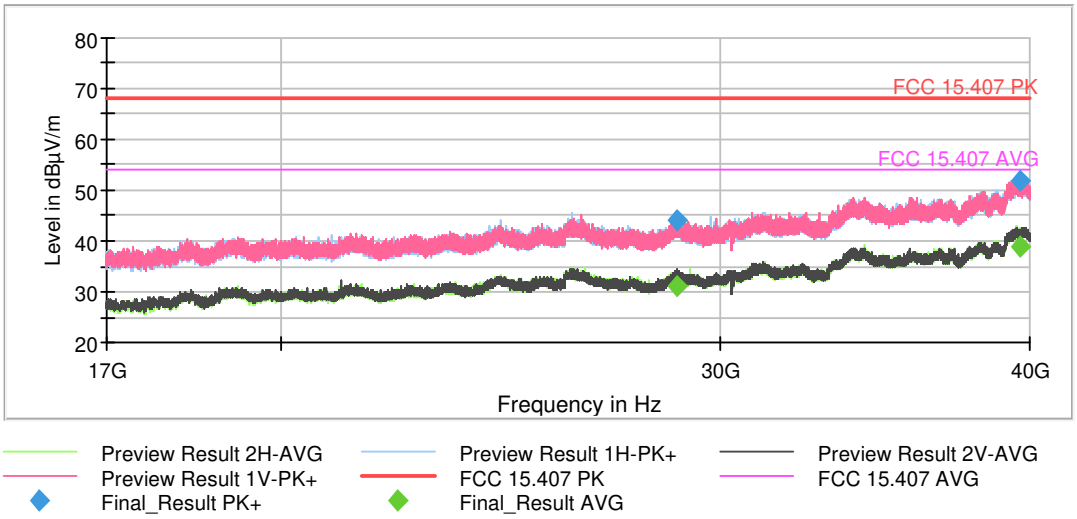
FREQUENCY RANGE 17 - 40 GHz (MIMO worst-case):

This plot is valid for all the Channels and all the modulation modes and bandwidths.



Preview Result 2H-AVG
Preview Result 1H-PK+
Preview Result 2V-AVG
Preview Result 1V-PK+
FCC 15.407 PK
FCC 15.407 AVG
Final_Result PK+
Final_Result AVG

FCC 15.407 (b)(1) / RSS-247 6.2.1.2. Band Edge Radiated Emissions

SPECIFICATION:

For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.20 dBµV/m at 3 m distance).

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)):

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 40000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RESULTS:

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.
Measurements were made in both horizontal and vertical planes of polarization.
The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360º to find the maximum radiated emission.

All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
There are restricted bands of operation below band edge at 4.50-5.15 GHz also above the upper band edge at 5.35-5.46 GHz therefore the provision of FCC Part 15.205 apply.

Field strength measurements using peak and average detector performed in the restricted bands below 5.15 GHz and above 5.35 GHz.

- Preliminary tests determined the SISO worst-case: WLAN1.
- Preliminary tests determined the MIMO worst-case: WLAN12.

Test performed on the following worst-cases modes in all relevant tests channels for both techniques:

- 802.11a: 6 Mbps SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11n HT20: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11n HT40: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ac VHT20: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ac VHT40: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ac VHT80: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ax HE20: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ax HE40: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.
- 802.11ax HE80: MCS0 SISO 1Tx on WLAN1 / MIMO 2Tx on WLAN12.

BAND EDGE EMISSIONS: For U-NII-2A, band edge spurious emissions inside of the Restricted Bands 4.50-5.15 GHz and 5.35-5.46 GHz.

The Lower Band Edge of the Low Channel and the Upper Band Edge of the High Channel were tested for all modes.

SISO worst-case:

- **SISO 802.11 a20** (Duty Cycle 0.26 dB)**:**

- Lower Band Edge Channel 52 (5260 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.088071	54.72	74	H	Peak
	47.88	54		Average

- Upper Band Edge Channel 64 (5320 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.375983	55.84	74	H	Peak
	47.35	54		Average

- **SISO 802.11 n20** (Duty Cycle 0.20 dB)**:**

- Lower Band Edge Channel 52 (5260 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.087911	54.85	74	H	Peak
	46.49	54		Average

- Upper Band Edge Channel 64 (5320 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.375999	54.67	74	H	Peak
	47.53	54		Average

- **SISO 802.11 ac20** (Duty Cycle 0.20 dB)**:**

- Lower Band Edge Channel 52 (5260 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.140022	72	74	H	Peak
	47.62	54		Average

- Upper Band Edge Channel 64 (5320 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.376001	55.29	74	H	Peak
	47.49	54		Average

- **SISO 802.11 ax20** (Duty Cycle 0.31 dB)**:**

- Lower Band Edge Channel 52 (5260 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.088001	54.28	74	H	Peak
	46.41	54		Average

- Upper Band Edge Channel 64 (5320 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.350165	61.24	74	H	Peak
	51.34	54		Average

- **SISO 802.11 n40** (Duty Cycle 0.59 dB)**:**

- Lower Band Edge Channel 54 (5270 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.087791	53.52	74	H	Peak
	46.08	54		Average

- Upper Band Edge Channel 62 (5310 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.372947	59.26	74	H	Peak
	48.68	54		Average

- **SISO 802.11 ac40** (Duty Cycle 0.59 dB)**:**

- Lower Band Edge Channel 54 (5270 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.087591	58.91	74	H	Peak
	49.79	54		Average

- Upper Band Edge Channel 62 (5310 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.375907	58.68	74	H	Peak
	49.06	54		Average

- **SISO 802.11 ax40** (Duty Cycle 0.26 dB)**:**

- Lower Band Edge Channel 54 (5270 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.087831	59.17	74	H	Peak
	49.19	54		Average

- Upper Band Edge Channel 62 (5310 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.377147	59.36	74	H	Peak
	48.7	54		Average

- **SISO 802.11 ac80** (Duty Cycle 0.18 dB)**:**

- Lower Band Edge Channel 58 (5290 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.087751	56.92	74	H	Peak
	49.08	54		Average

- Upper Band Edge Channel 58 (5290 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.350341	65.94	74	H	Peak
	53.99	54		Average

- **SISO 802.11 ax80** (Duty Cycle 0.24 dB)**:**

- Lower Band Edge Channel 58 (5290 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.087991	58.70	74	H	Peak
	49.45	54		Average

- Upper Band Edge Channel 58 (5290 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

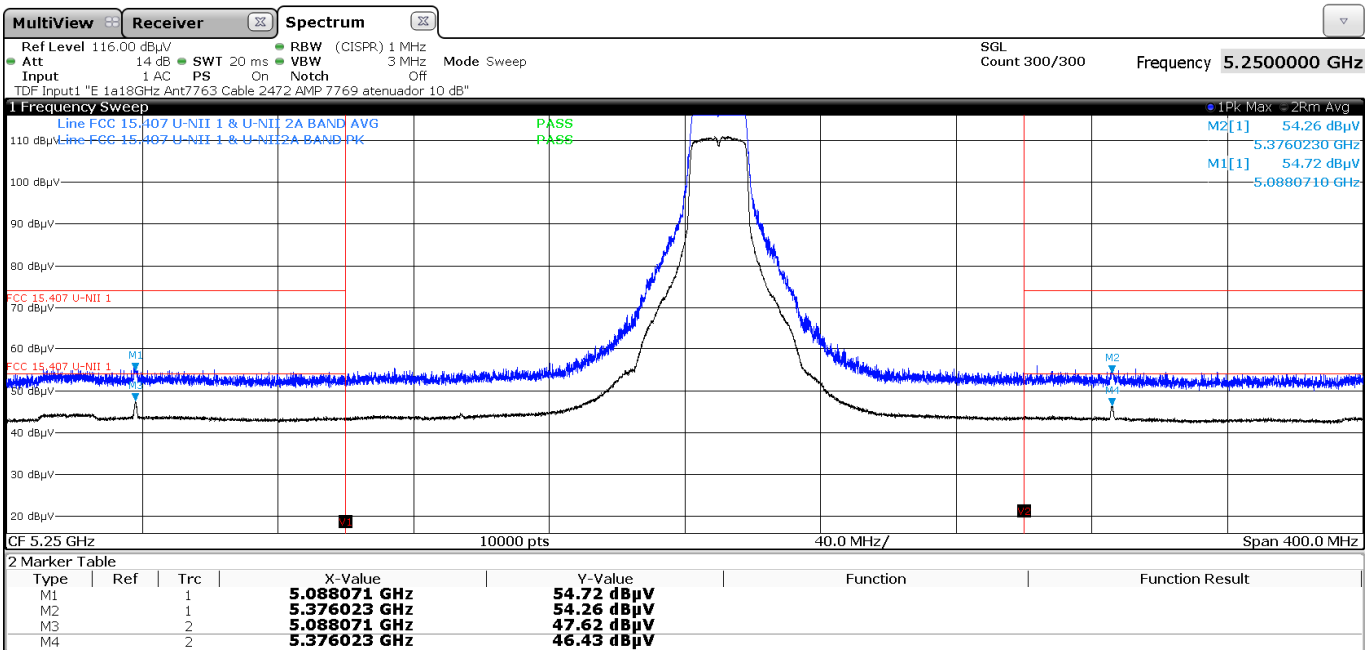
Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.352661	68.84	74	H	Peak
	54.14	54		Average

Measurement Uncertainty (dB) <± 4.6

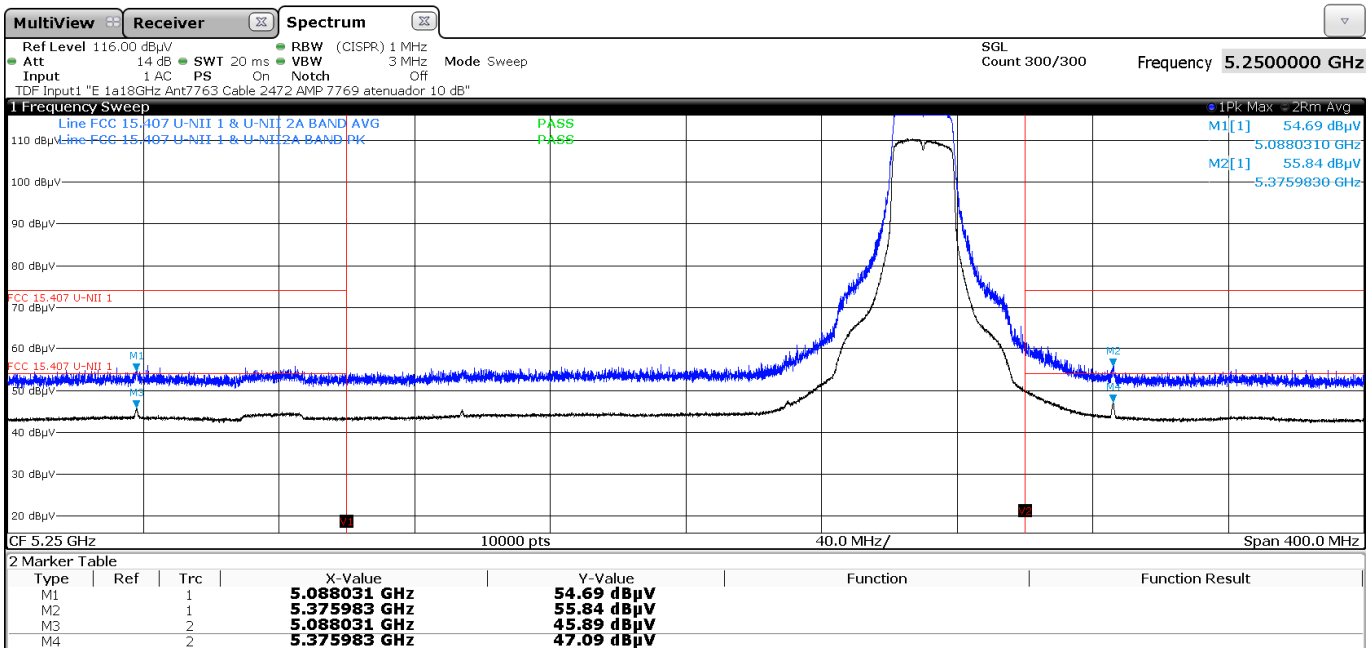
Verdict: PASS

- **SISO 802.11 a20:**

  - Lower Band Edge Channel 52 (Restricted Band 4.50-5.15 GHz)

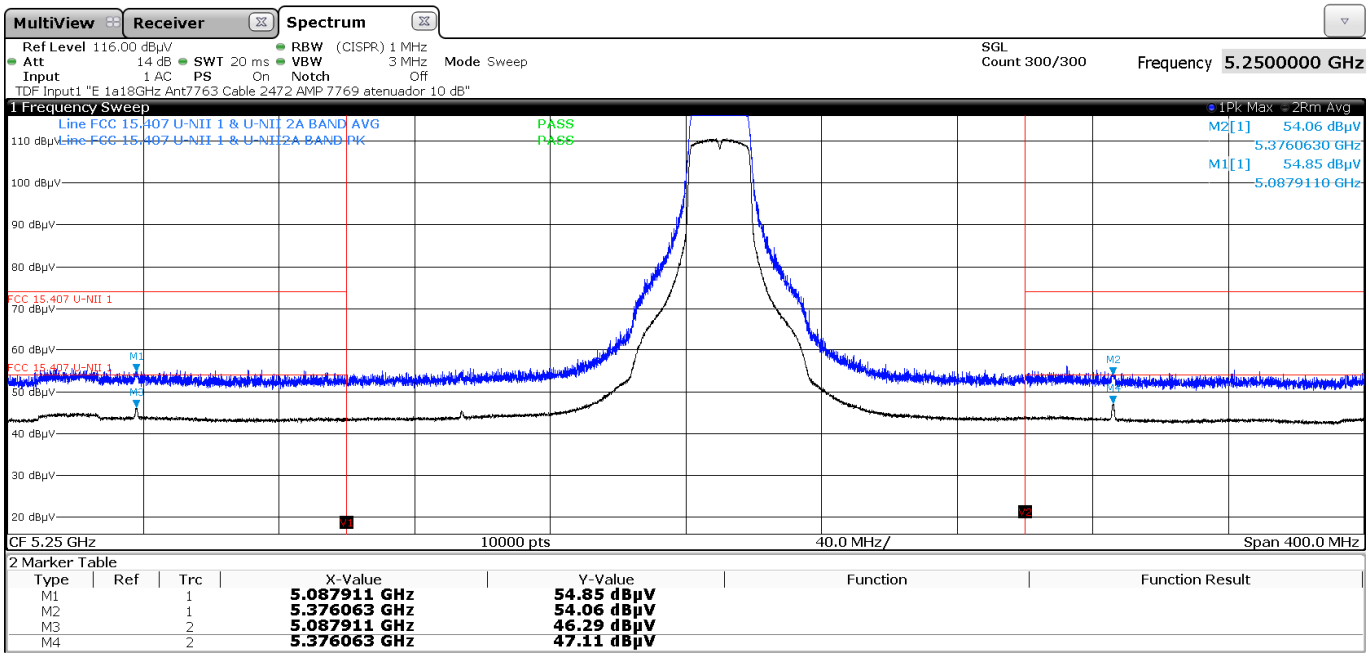


  - Upper Band Edge Channel 64 (Restricted Band 5.35-5.46 GHz)

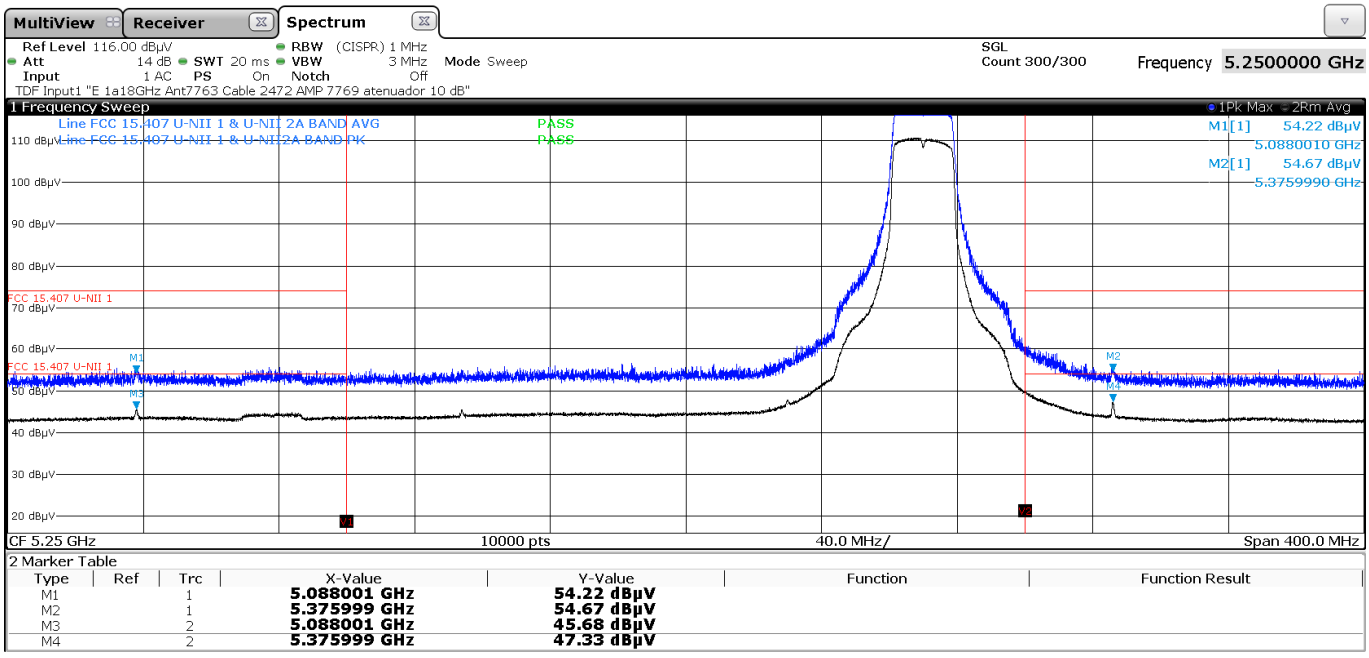


- **SISO 802.11 n20:**

  - Lower Band Edge Channel 52 (Restricted Band 4.50-5.15 GHz)

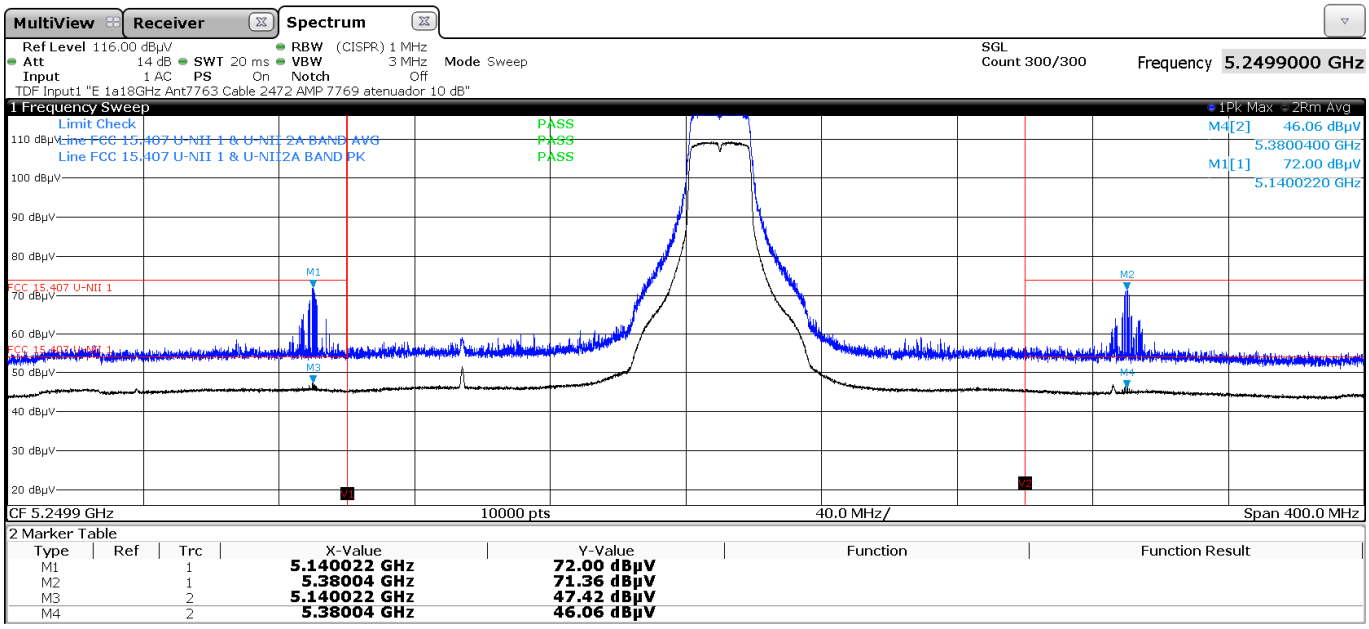


  - Upper Band Edge Channel 64 (Restricted Band 5.35-5.46 GHz)

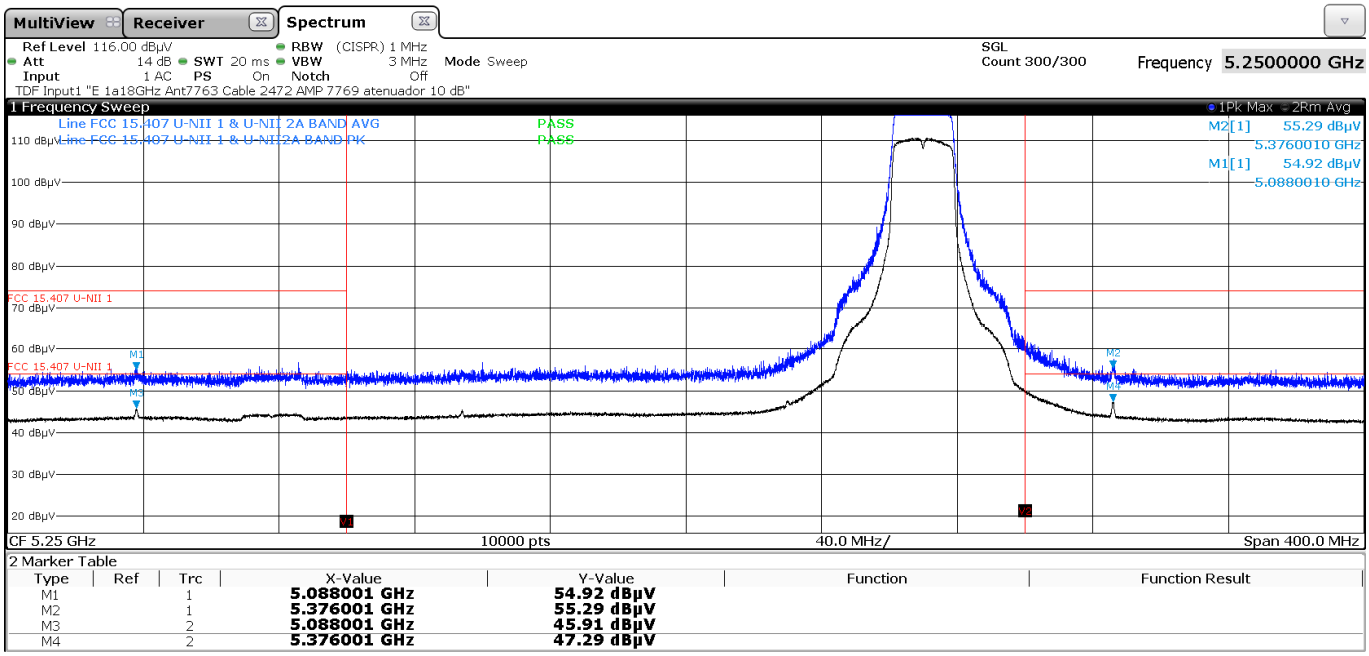


- **SISO 802.11 ac20:**

  - Lower Band Edge Channel 52 (Restricted Band 4.50-5.15 GHz)

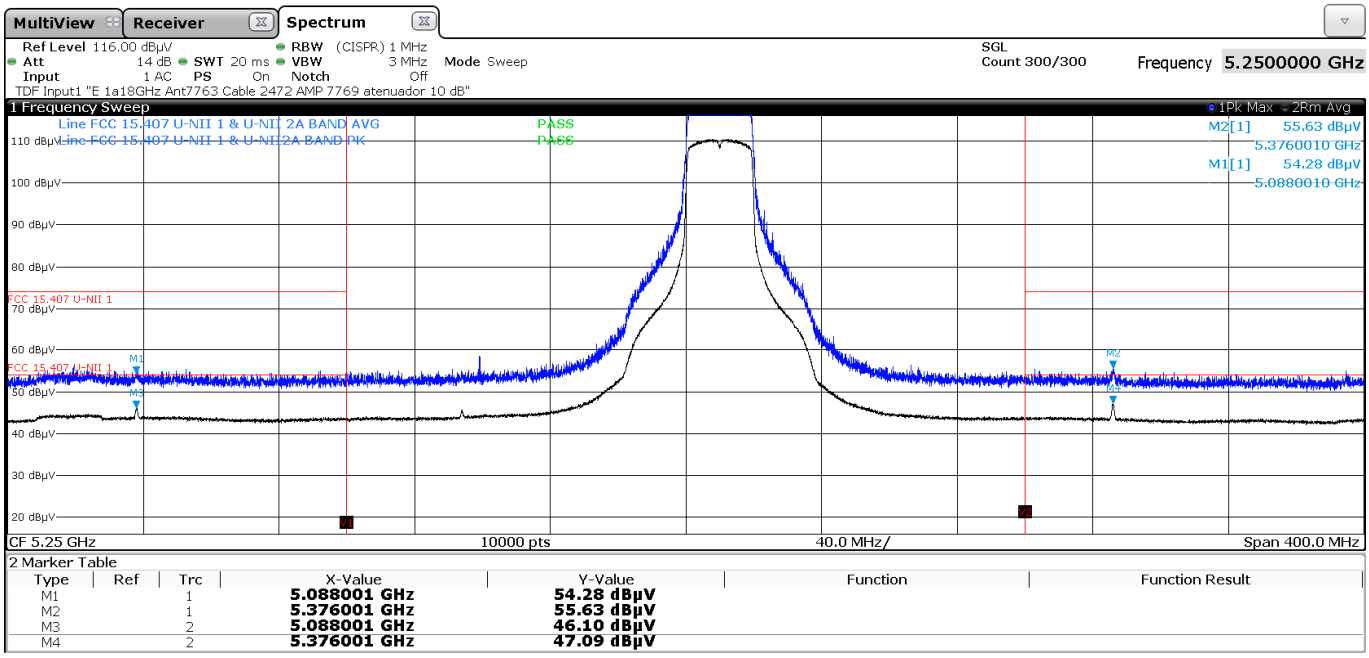


  - Upper Band Edge Channel 64 (Restricted Band 5.35-5.46 GHz)

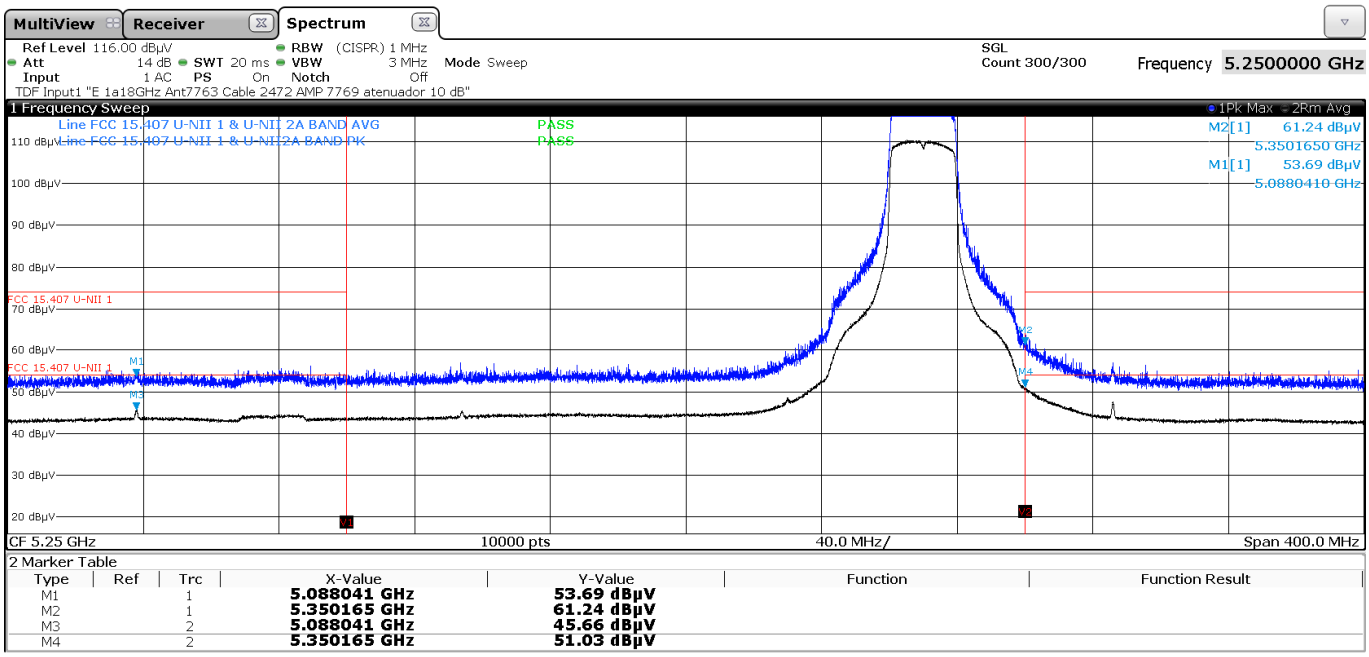


- **SISO 802.11 ax20:**

  - Lower Band Edge Channel 52 (Restricted Band 4.50-5.15 GHz)

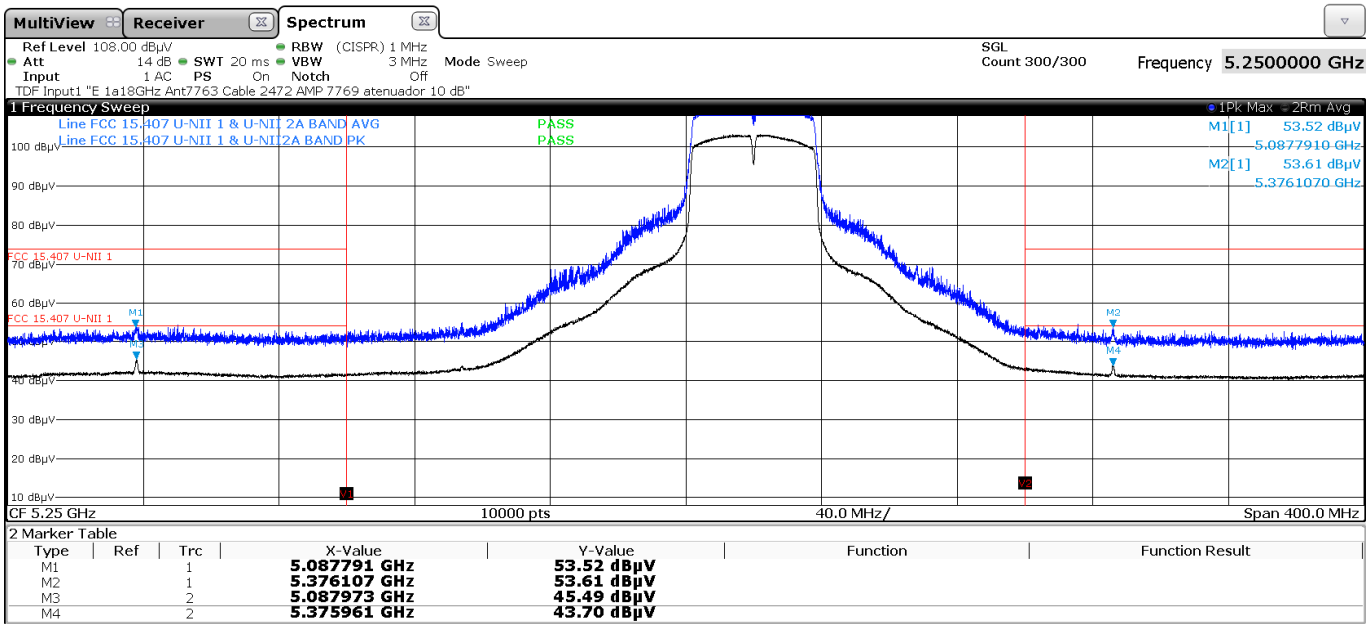


  - Upper Band Edge Channel 64 (Restricted Band 5.35-5.46 GHz)

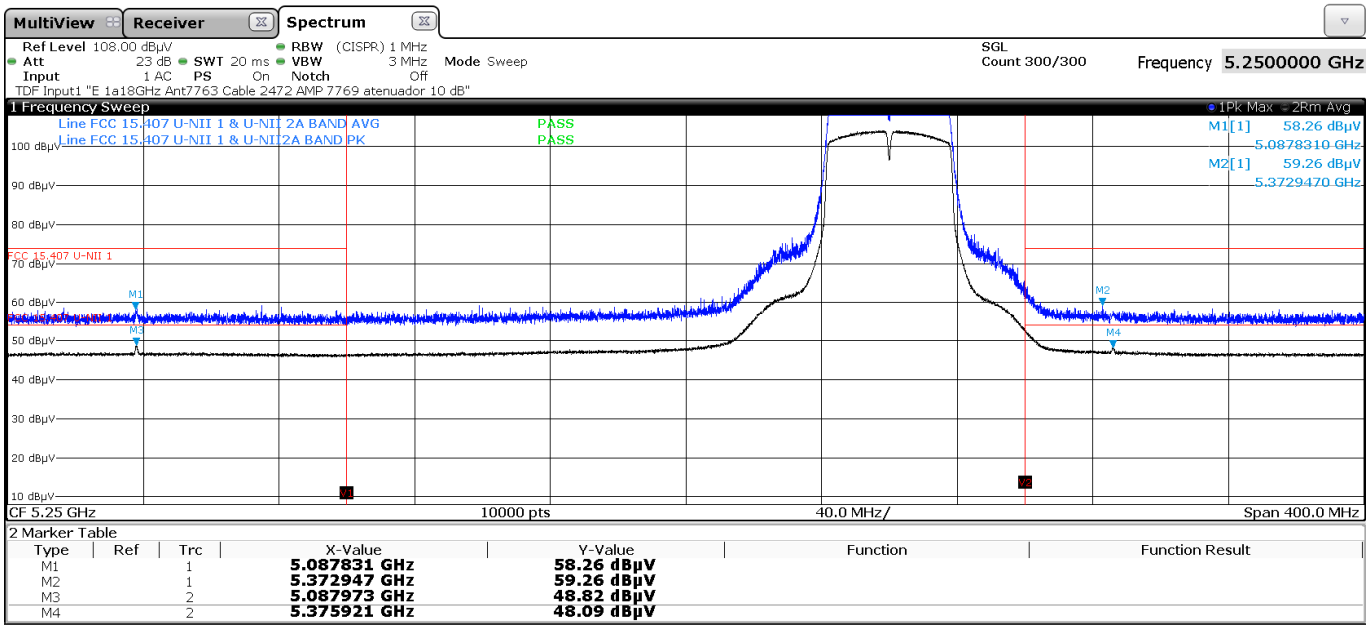


- **SISO 802.11 n40:**

  - Lower Band Edge Channel 54 (Restricted Band 4.50-5.15 GHz)

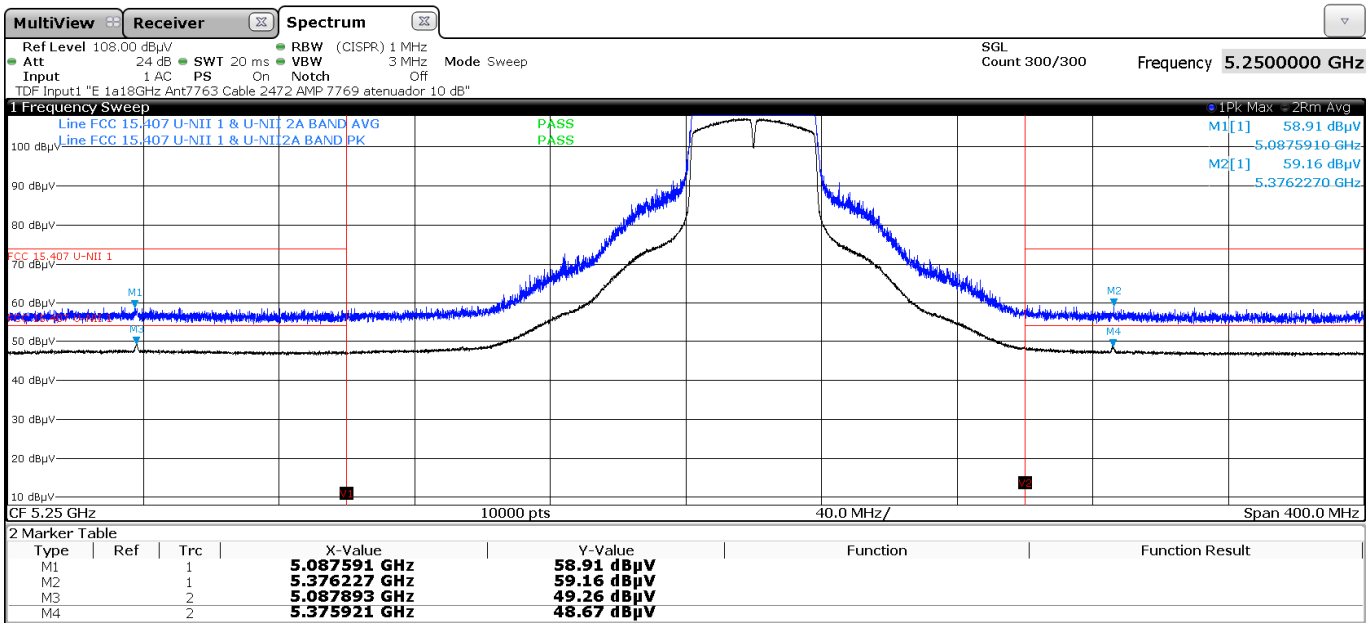


  - Upper Band Edge Channel 62 (Restricted Band 5.35-5.46 GHz)

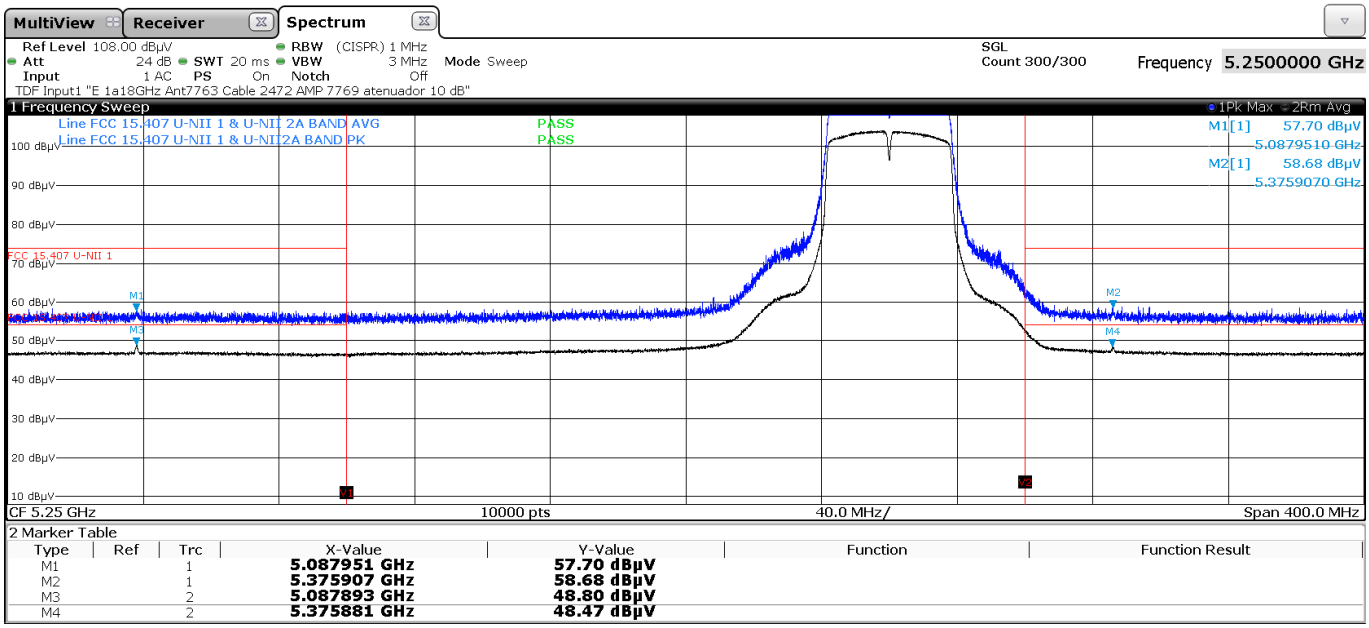


- **SISO 802.11 ac40:**

  - Lower Band Edge Channel 54 (Restricted Band 4.50-5.15 GHz)

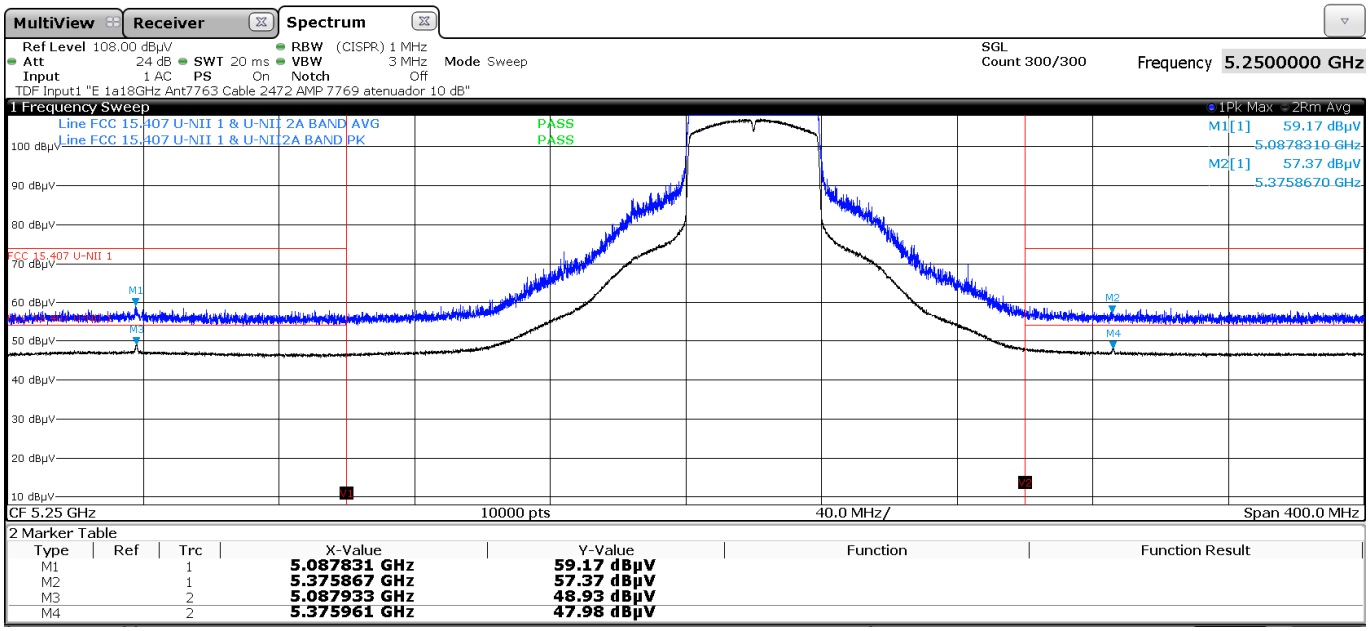


  - Upper Band Edge Channel 62 (Restricted Band 5.35-5.46 GHz)

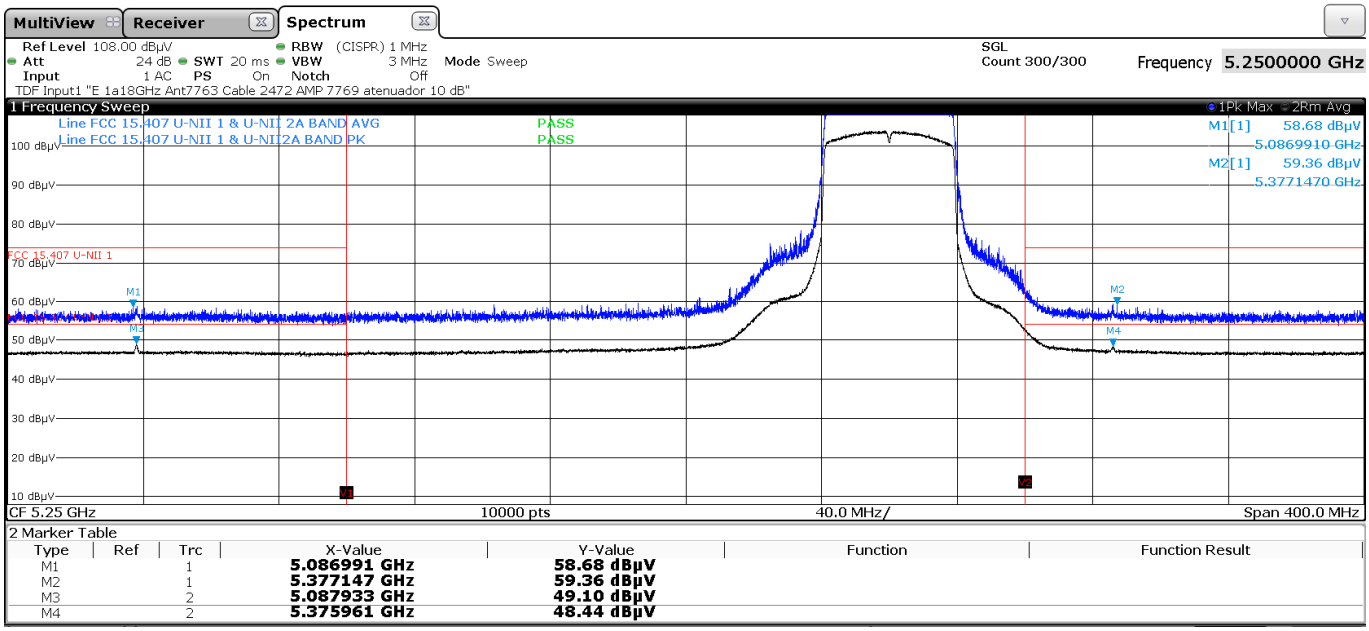


- **SISO 802.11 ax40:**

  - Lower Band Edge Channel 54 (Restricted Band 4.50-5.15 GHz)

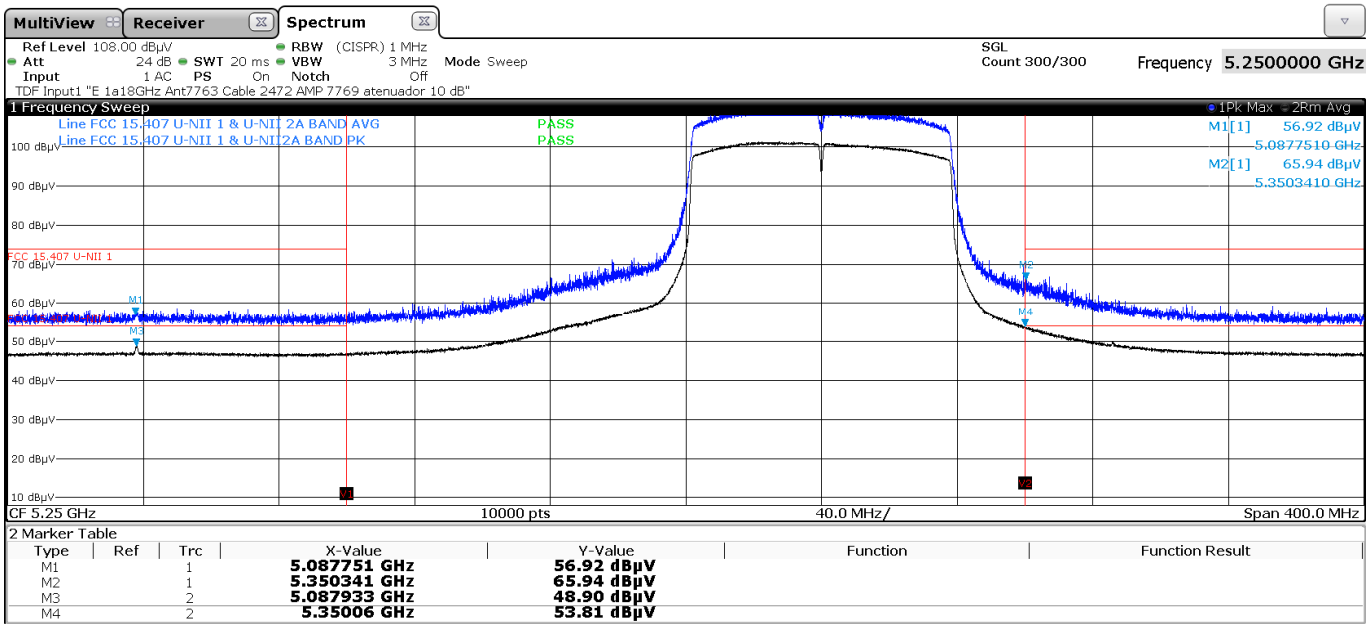


  - Upper Band Edge Channel 62 (Restricted Band 5.35-5.46 GHz)

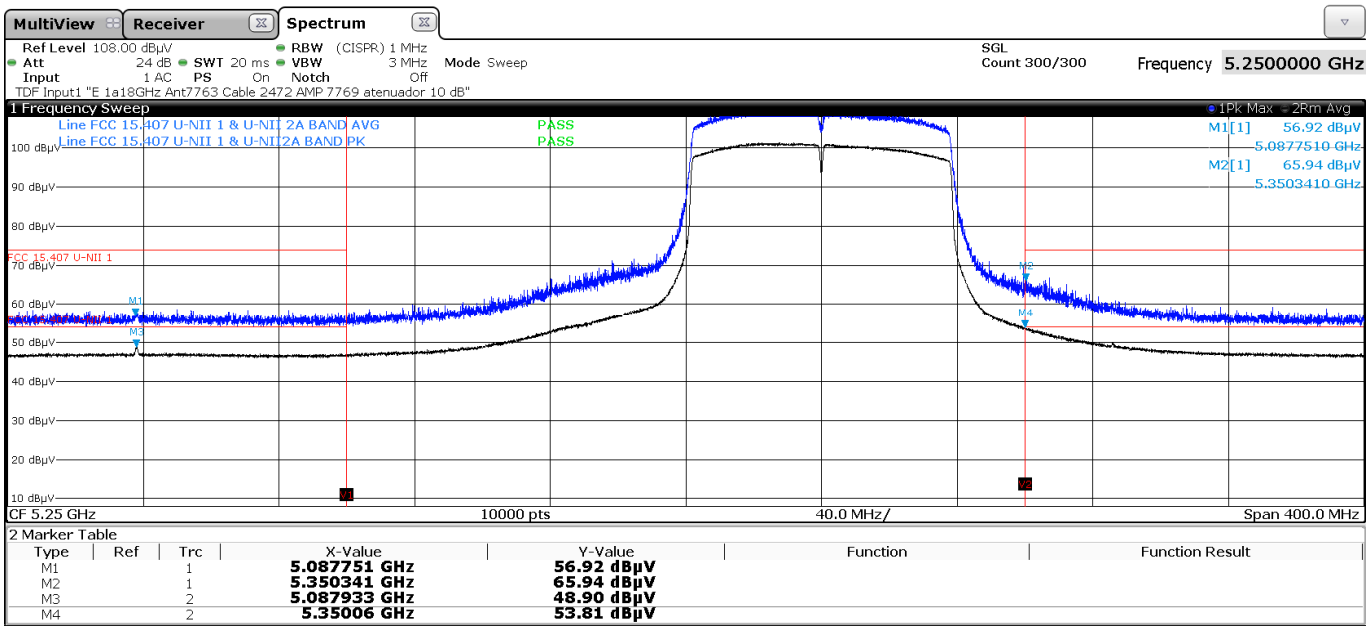


- **SISO 802.11 ac80:**

  - Lower Band Edge Channel 58 (Restricted Band 4.50-5.15 GHz)

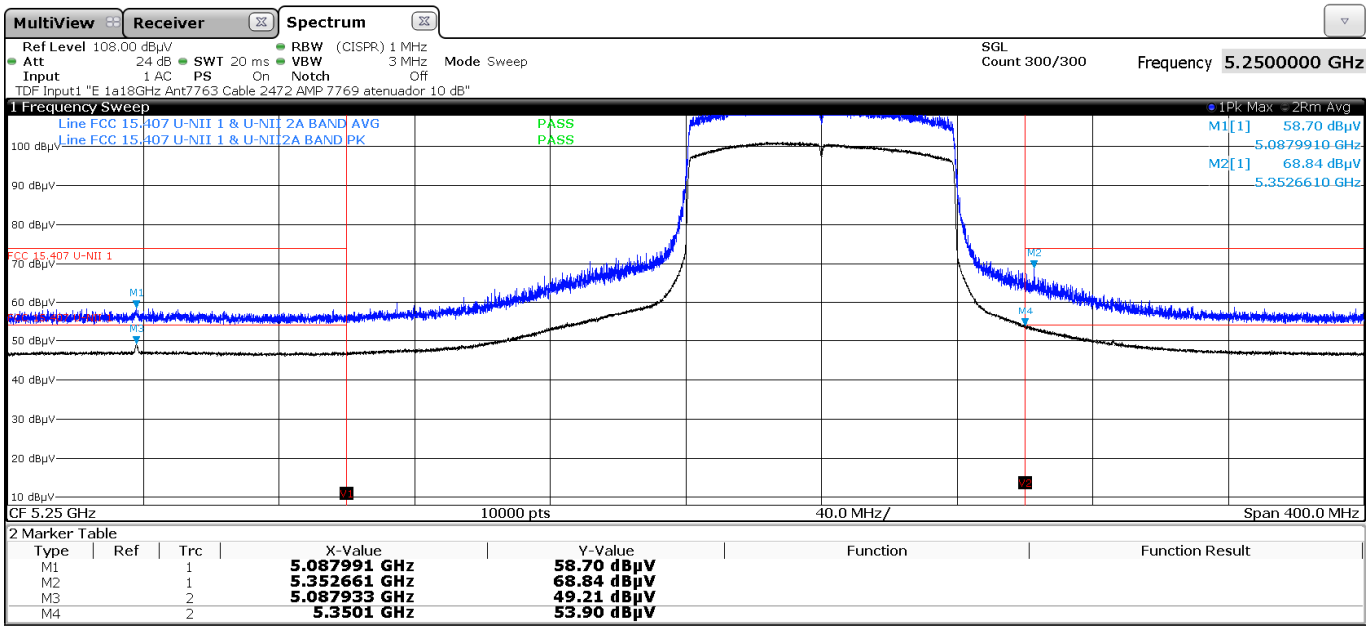


  - Upper Band Edge Channel 58 (Restricted Band 5.35-5.46 GHz)

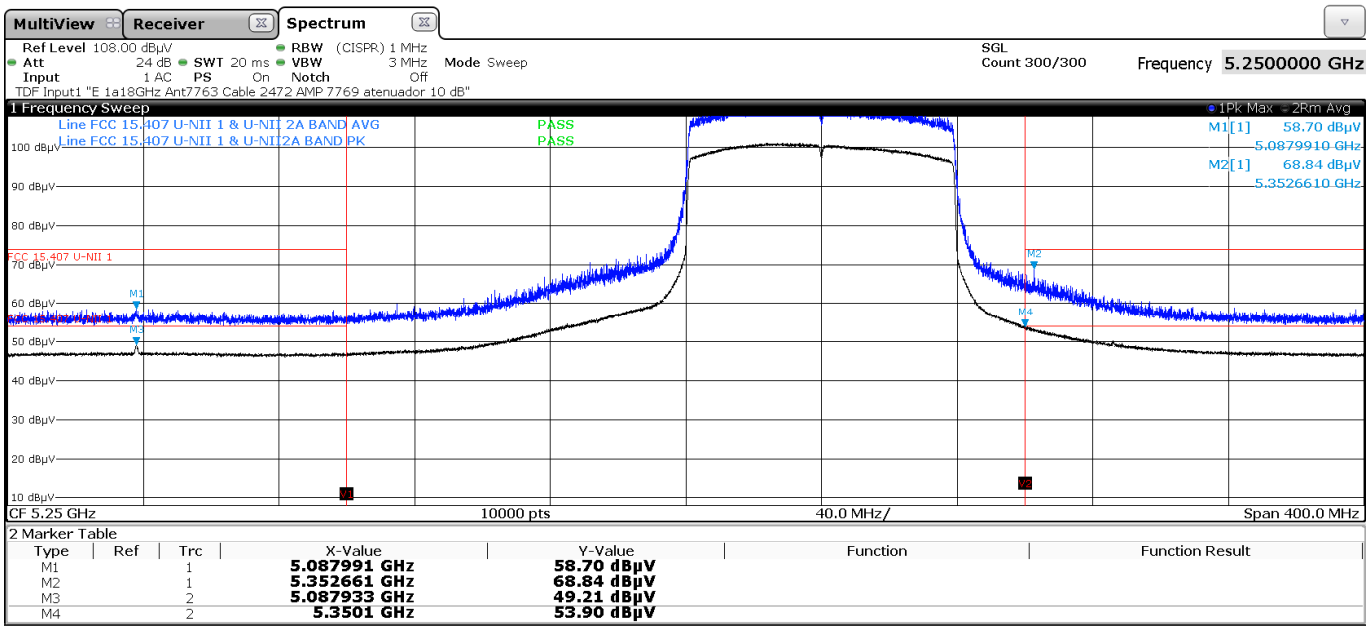


- **SISO 802.11 ax80:**

  - Lower Band Edge Channel 58 (Restricted Band 4.50-5.15 GHz)



  - Upper Band Edge Channel 58 (Restricted Band 5.35-5.46 GHz)



MIMO worst-case:

- **MIMO 802.11 a20** (Duty Cycle 0.27 dB)**:**

- Lower Band Edge Channel 52 (5260 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.139944	67.04	74	H	Peak
	47.49	54		Average

- Upper Band Edge Channel 64 (5320 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.440009	61.69	74	H	Peak
	46.14	54		Average

- **MIMO 802.11 n20** (Duty Cycle 0.42 dB)**:**

- Lower Band Edge Channel 52 (5260 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.139964	67.02	74	H	Peak
	47.38	54		Average

- Upper Band Edge Channel 64 (5320 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.354211	61.94	74	H	Peak
	50.25	54		Average
5.440378	63.14	74	H	Peak
	46.21	54		Average

- **MIMO 802.11 ac20** (Duty Cycle 0.40 dB)**:**

- Lower Band Edge Channel 52 (5260 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.140009	67.04	74	H	Peak
	47.17	54		Average

- Upper Band Edge Channel 64 (5320 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.439864	68.25	74	H	Peak
	46.51	54		Average

- **MIMO 802.11 ax20** (Duty Cycle 0.51 dB)**:**

- Lower Band Edge Channel 52 (5260 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.139489	64.36	74	H	Peak
	46.1	54		Average

- Upper Band Edge Channel 64 (5320 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.354166	66.48	74	H	Peak
	53.72	54		Average
5.439614	65.30	74	H	Peak
	46.87	54		Average

- **MIMO 802.11 n40** (Duty Cycle 0.58 dB)**:**

- Lower Band Edge Channel 54 (5270 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.149038	65.17	74	H	Peak
	46.8	54		Average

- Upper Band Edge Channel 62 (5310 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.350261	64.27	74	H	Peak
	53.84	54		Average

- **MIMO 802.11 ac40** (Duty Cycle 0.60 dB)**:**

- Lower Band Edge Channel 54 (5270 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.149995	65.47	74	H	Peak
	45.1	54		Average

- Upper Band Edge Channel 62 (5310 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.351101	64.08	74	H	Peak
	53.21	54		Average

- **MIMO 802.11 ax40** (Duty Cycle 0.42 dB)**:**

- Lower Band Edge Channel 54 (5270 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.14935	66.79	74	H	Peak
	47.24	54		Average

- Upper Band Edge Channel 62 (5310 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.351781	65.83	74	H	Peak
	53.75	54		Average

- **MIMO 802.11 ac80** (Duty Cycle 0.16 dB)**:**

- Lower Band Edge Channel 58 (5290 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.088031	57.33	74	H	Peak
	47.85	54		Average

- Upper Band Edge Channel 58 (5290 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.353461	65.65	74	H	Peak
	53.79	54		Average

- **MIMO 802.11 ax80** (Duty Cycle 0.52 dB)**:**

- Lower Band Edge Channel 58 (5290 MHz). Spurious emissions inside the Restricted Band 4.50-5.15 GHz:

Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.087911	57.77	74	H	Peak
	48.28	54		Average

- Upper Band Edge Channel 58 (5290 MHz). Spurious emissions inside the Restricted Band 5.35-5.46 GHz:

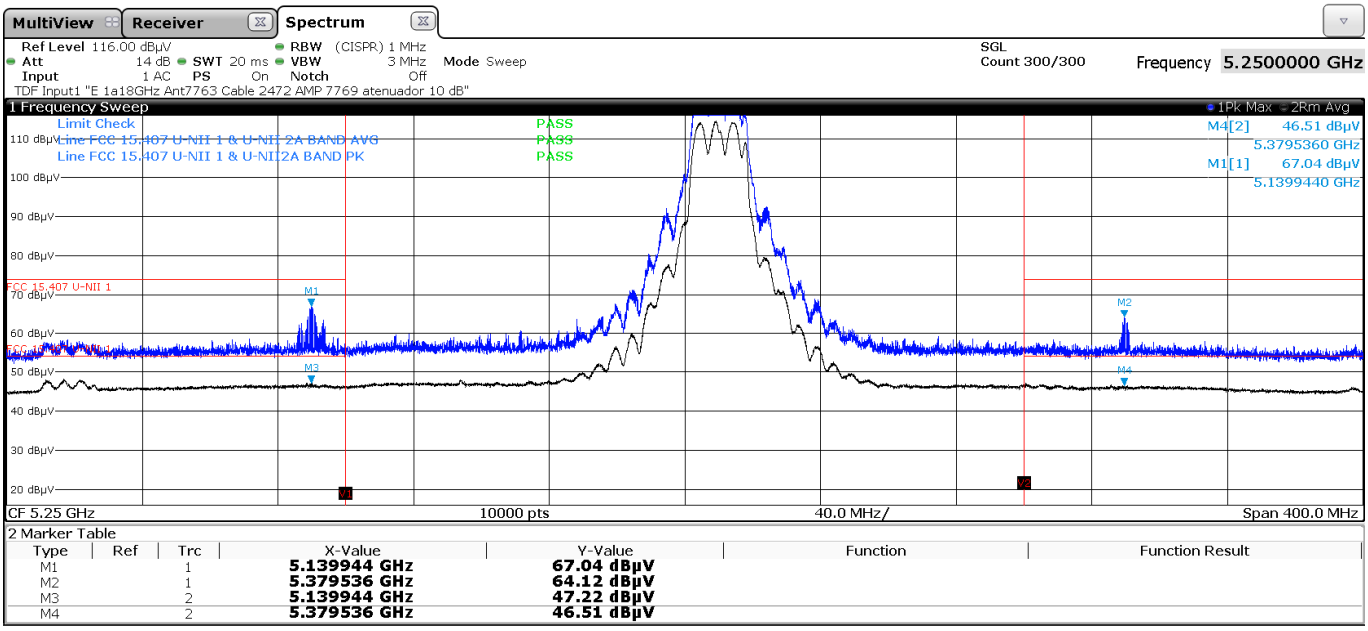
Spurious frequency (GHz)	Corrected Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector
5.352821	66.80	74	H	Peak
	53.48	54		Average

Measurement Uncertainty (dB) <± 4.6

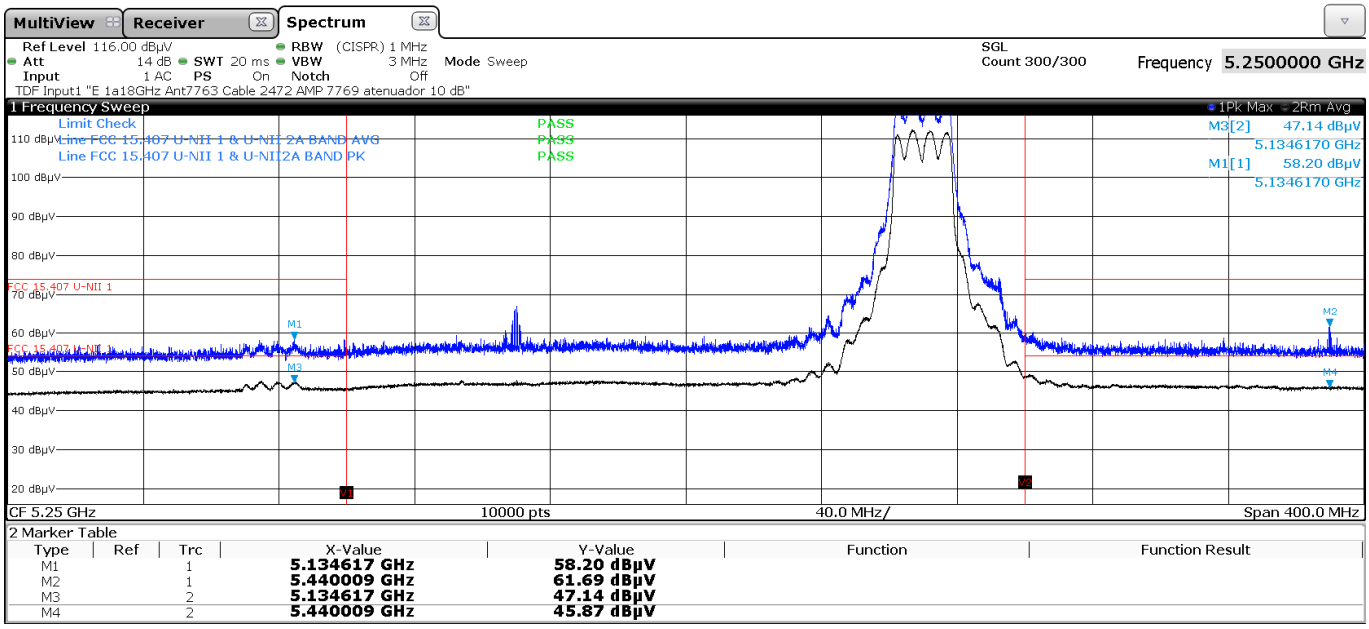
Verdict: PASS

- **MIMO 802.11 a20:**

  - Lower Band Edge Channel 52 (Restricted Band 4.50-5.15 GHz)

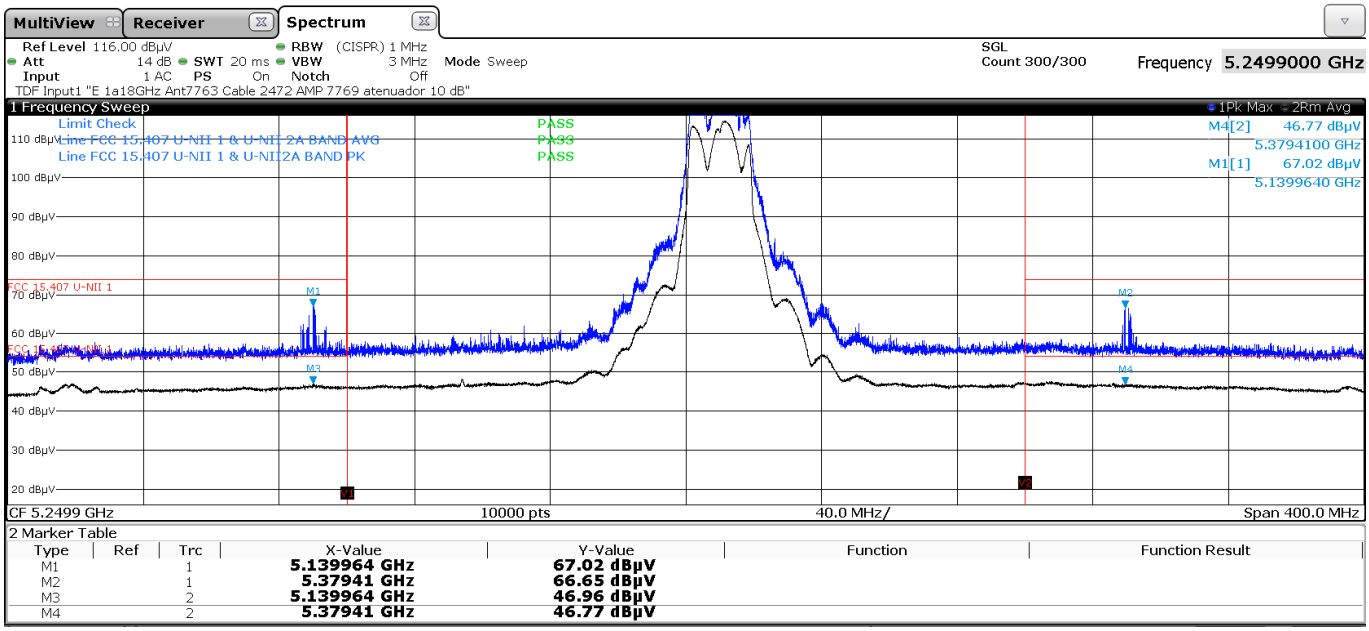


  - Upper Band Edge Channel 64 (Restricted Band 5.35-5.46 GHz)

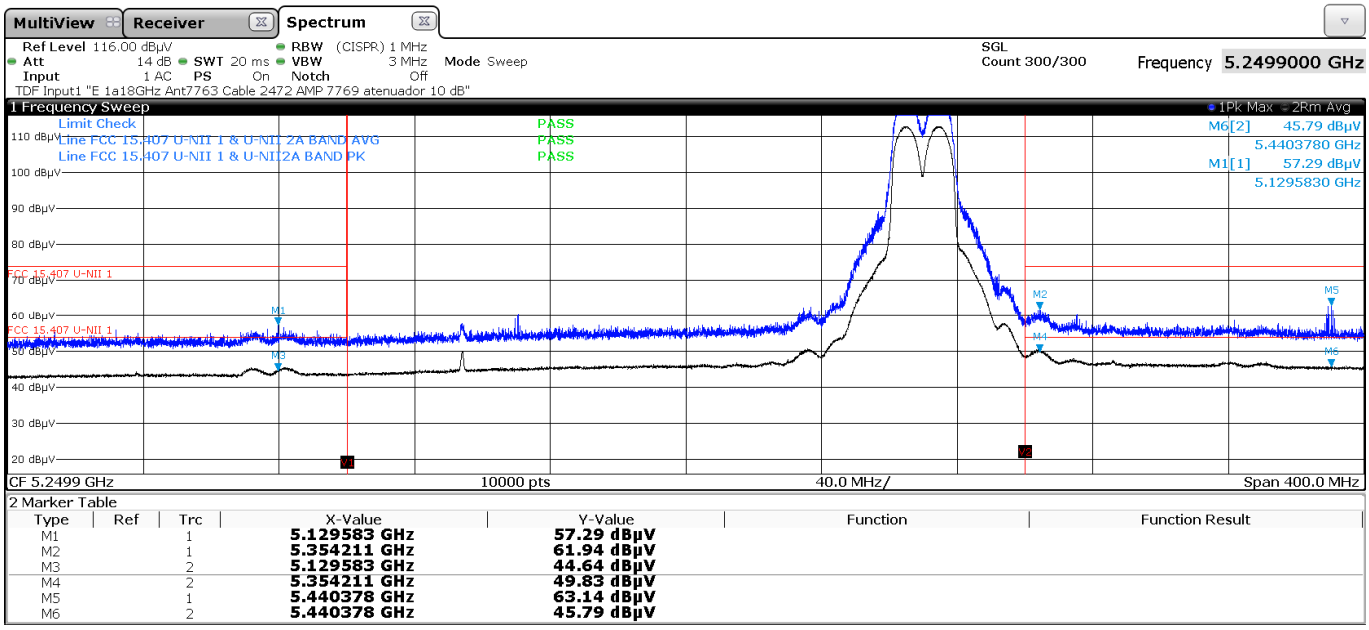


- **MIMO 802.11 n20:**

  - Lower Band Edge Channel 52 (Restricted Band 4.50-5.15 GHz)

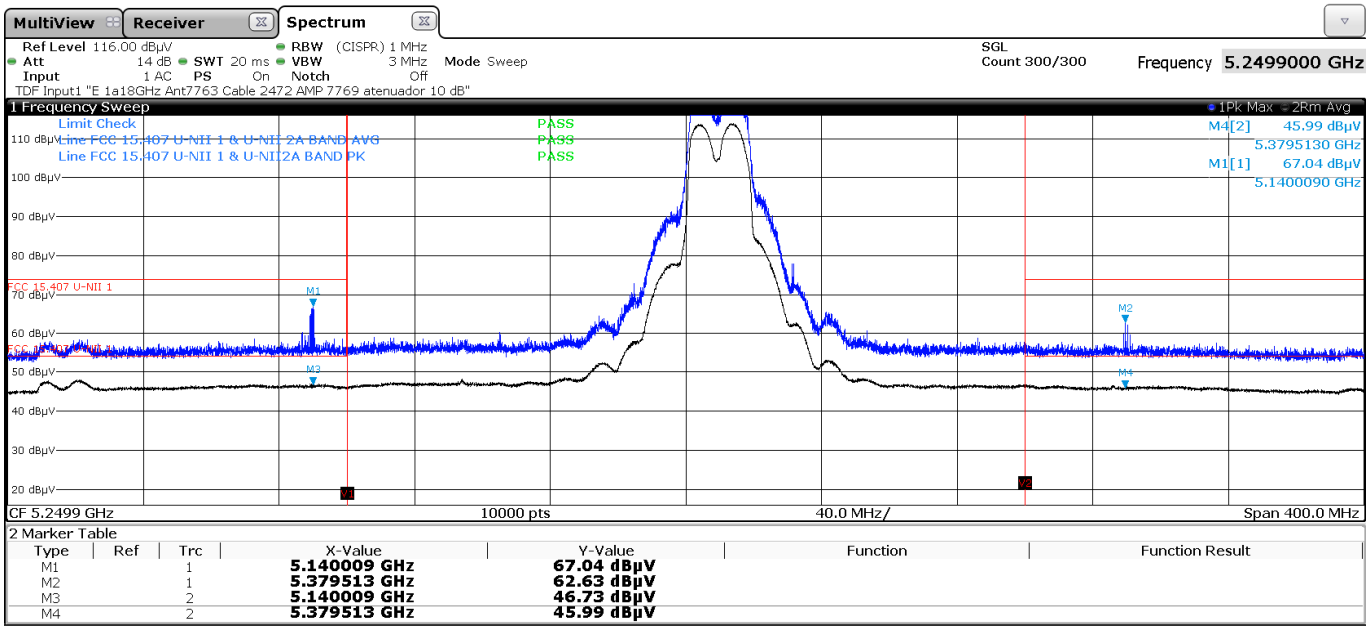


  - Upper Band Edge Channel 64 (Restricted Band 5.35-5.46 GHz)

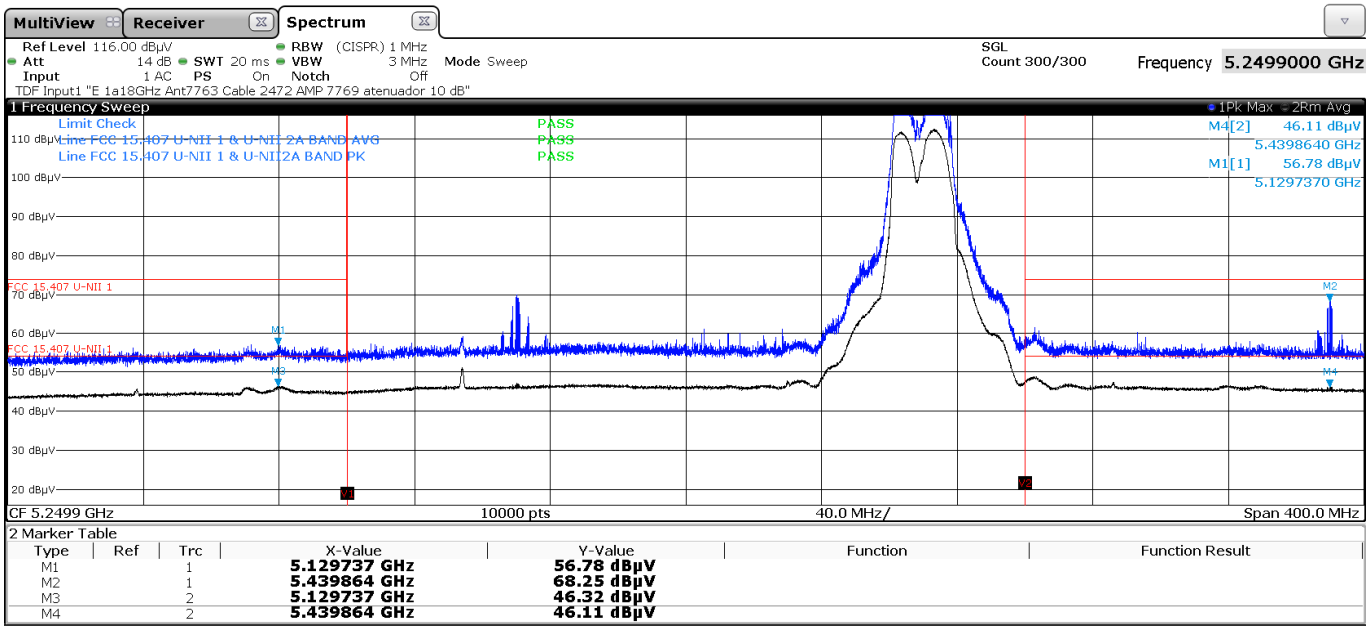


- **MIMO 802.11 ac20:**

  - Lower Band Edge Channel 52 (Restricted Band 4.50-5.15 GHz)

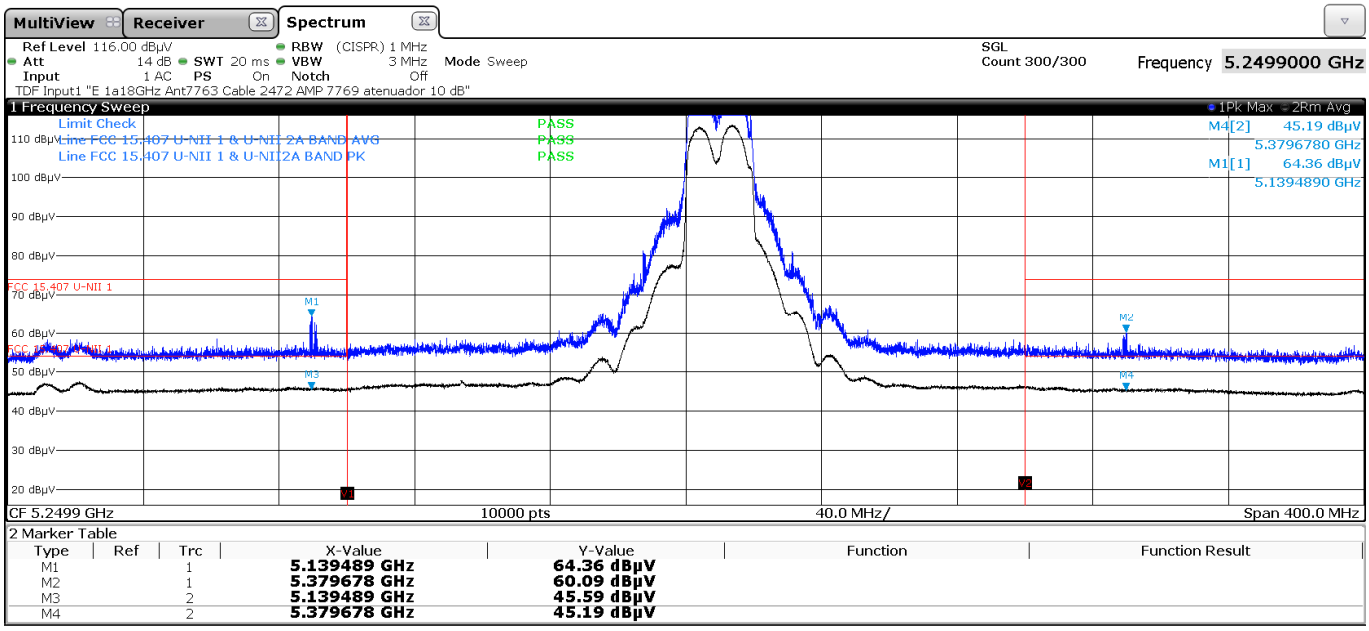


  - Upper Band Edge Channel 64 (Restricted Band 5.35-5.46 GHz)

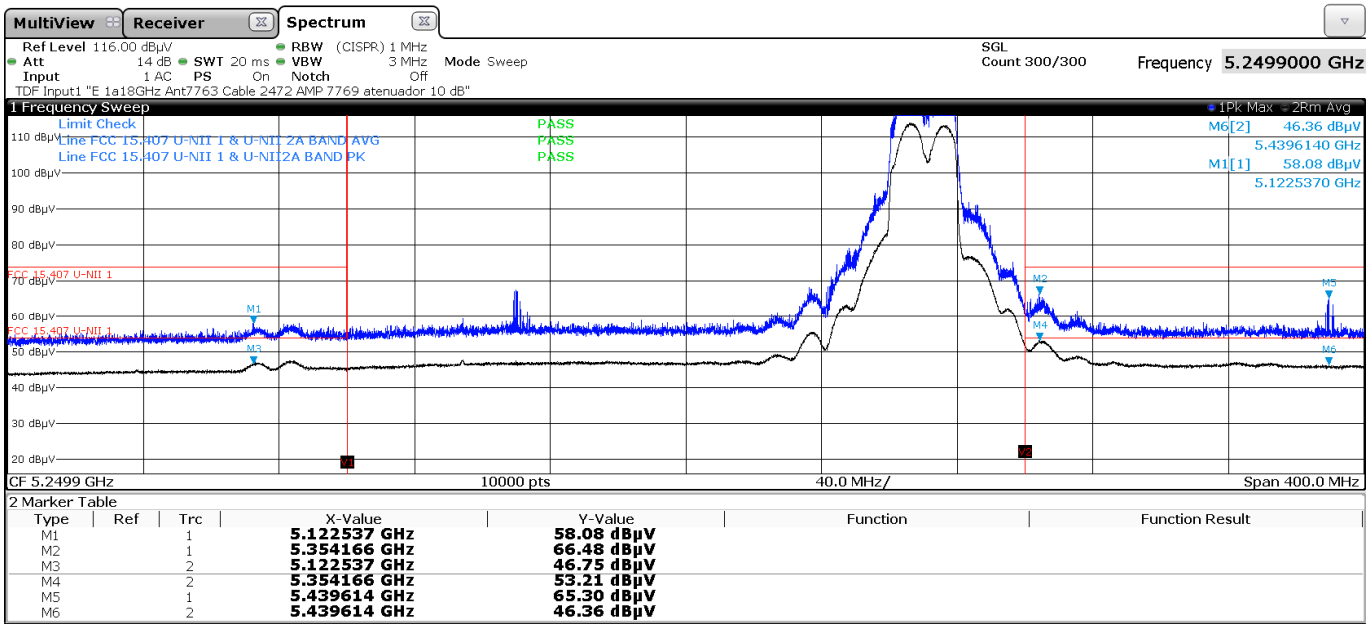


- **MIMO 802.11 ax20:**

  - Lower Band Edge Channel 52 (Restricted Band 4.50-5.15 GHz)

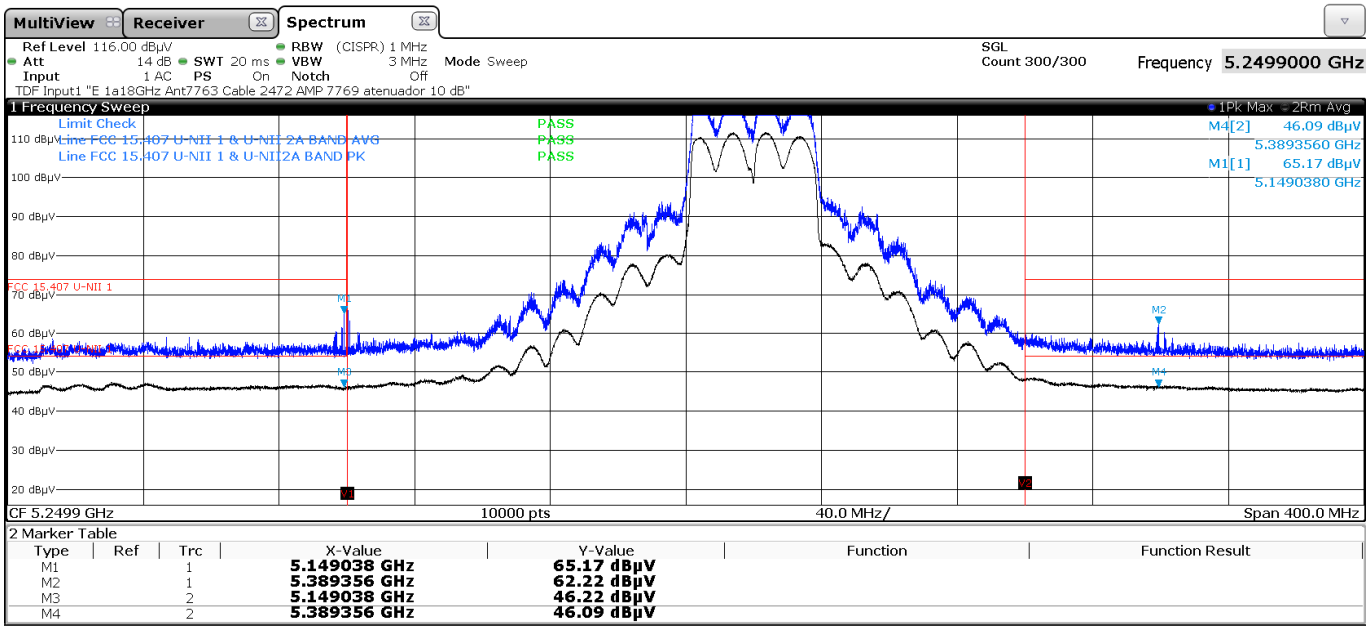


  - Upper Band Edge Channel 64 (Restricted Band 5.35-5.46 GHz)

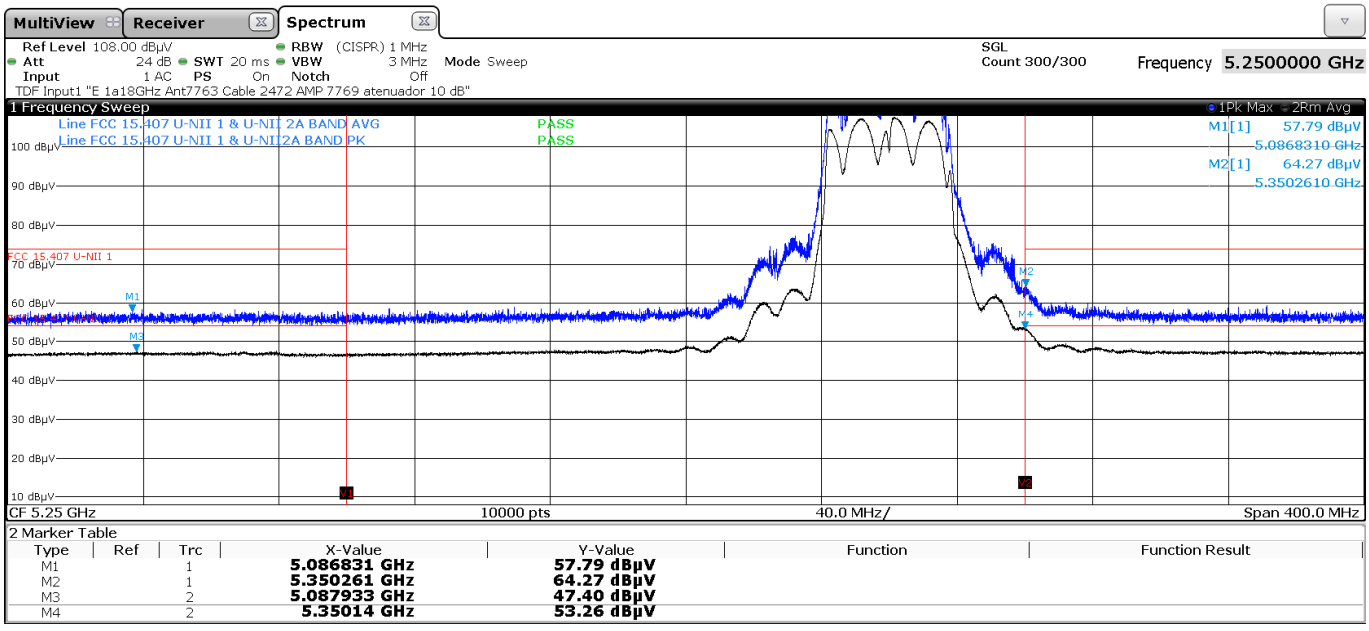


- **MIMO 802.11 n40:**

  - Lower Band Edge Channel 54 (Restricted Band 4.50-5.15 GHz)

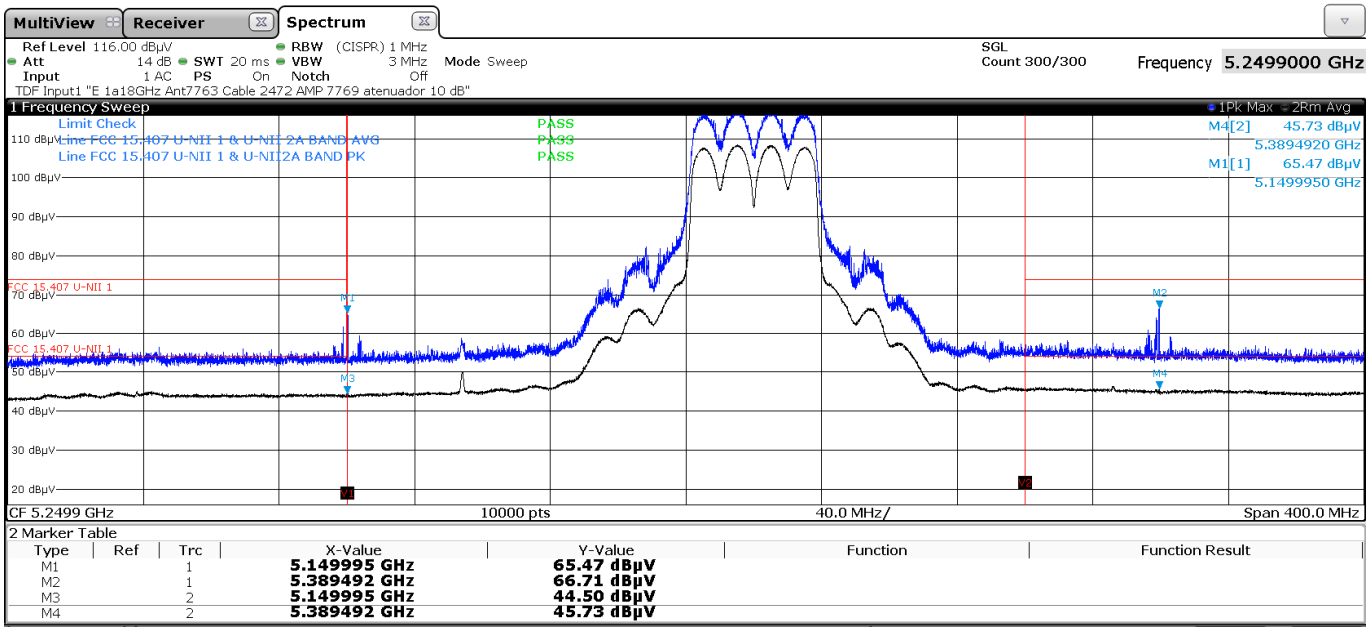


  - Upper Band Edge Channel 62 (Restricted Band 5.35-5.46 GHz)

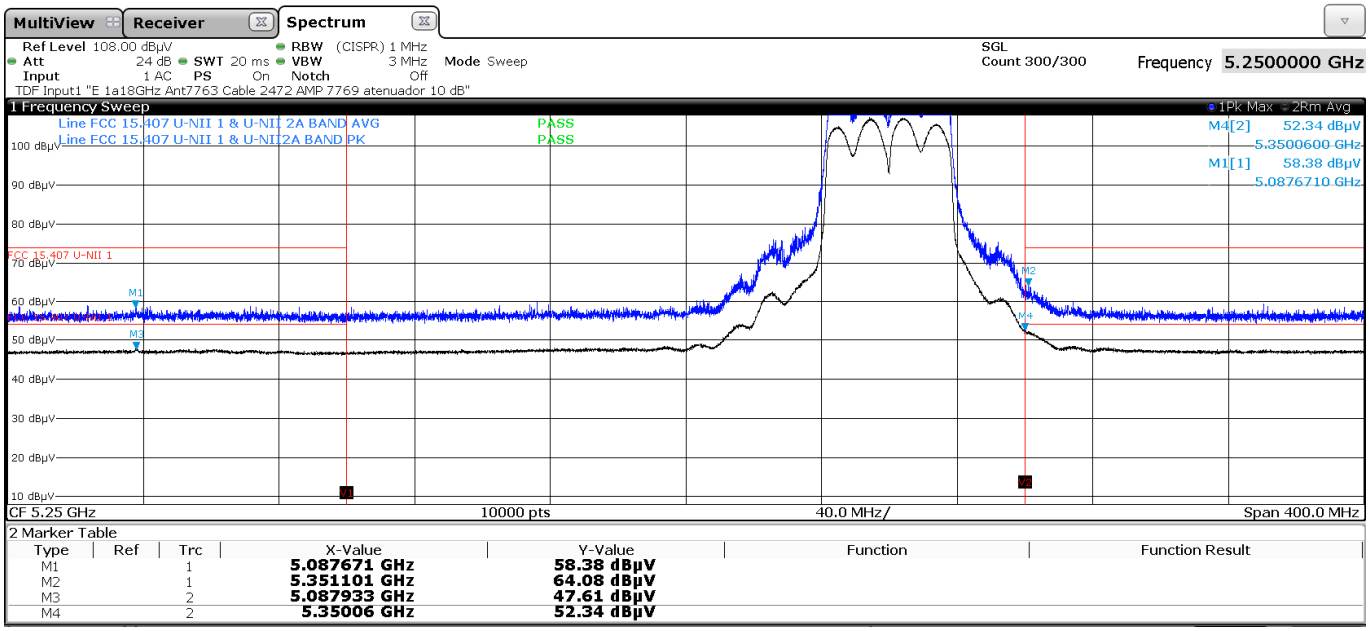


- **MIMO 802.11 ac40:**

  - Lower Band Edge Channel 54 (Restricted Band 4.50-5.15 GHz)

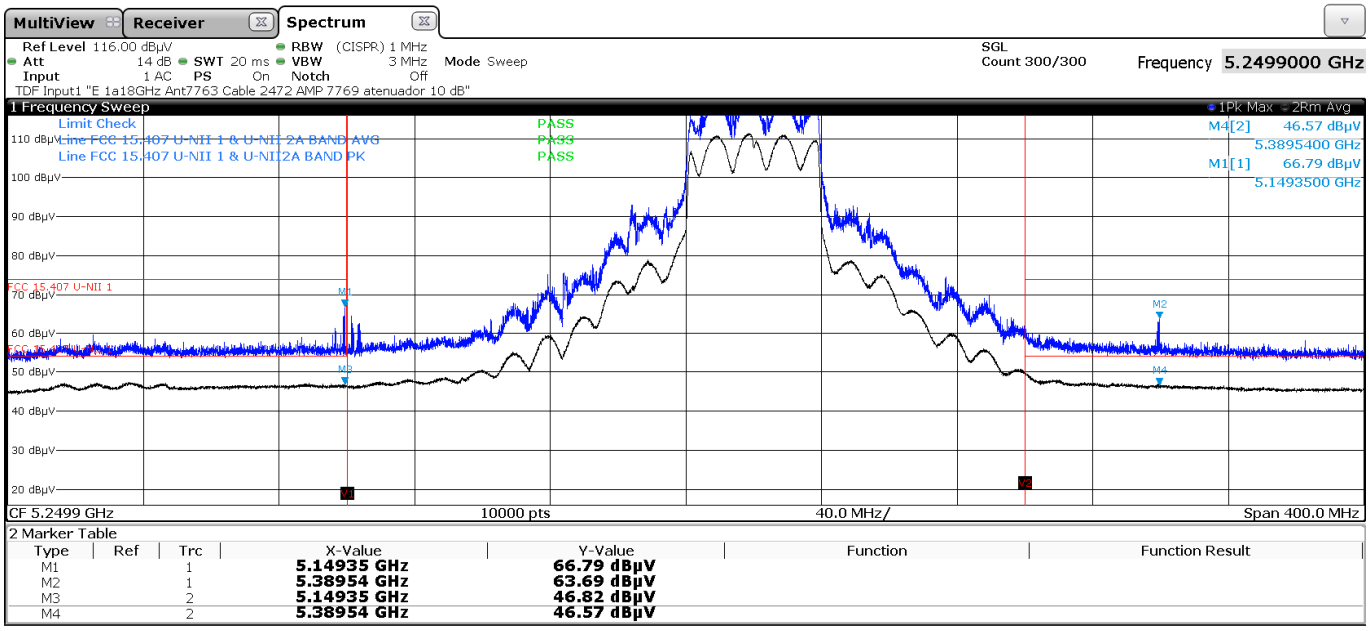


  - Upper Band Edge Channel 62 (Restricted Band 5.35-5.46 GHz)

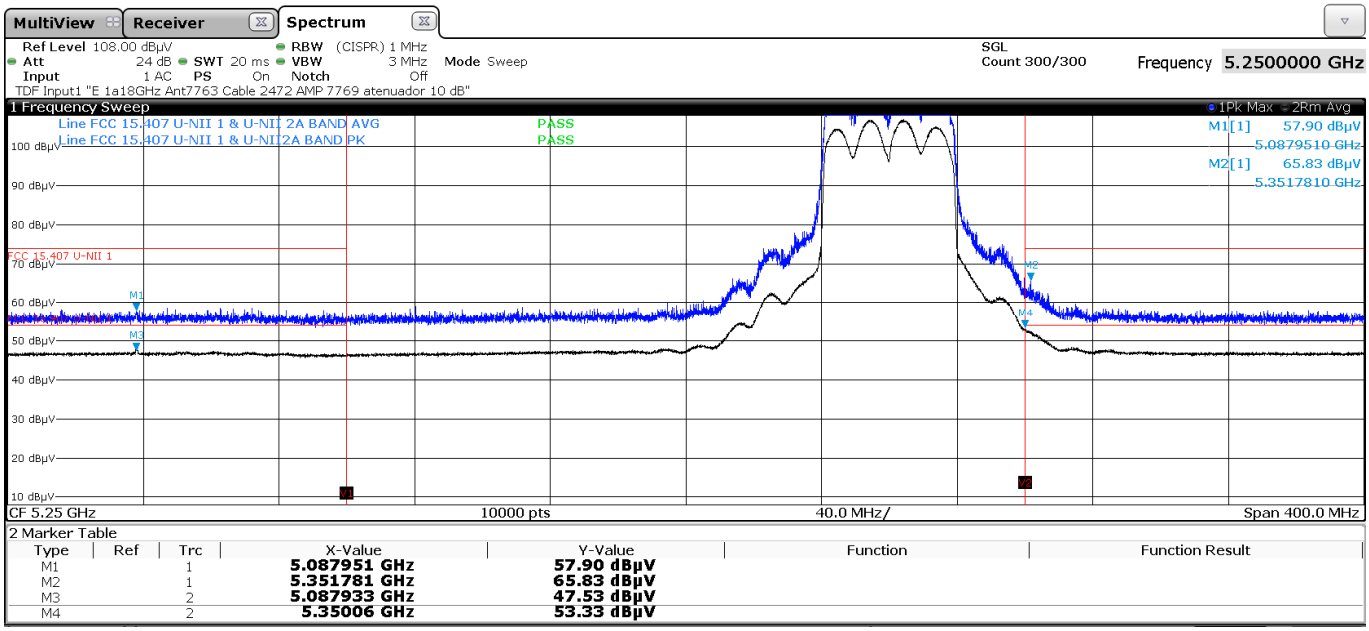


- **MIMO 802.11 ax40:**

  - Lower Band Edge Channel 54 (Restricted Band 4.50-5.15 GHz)

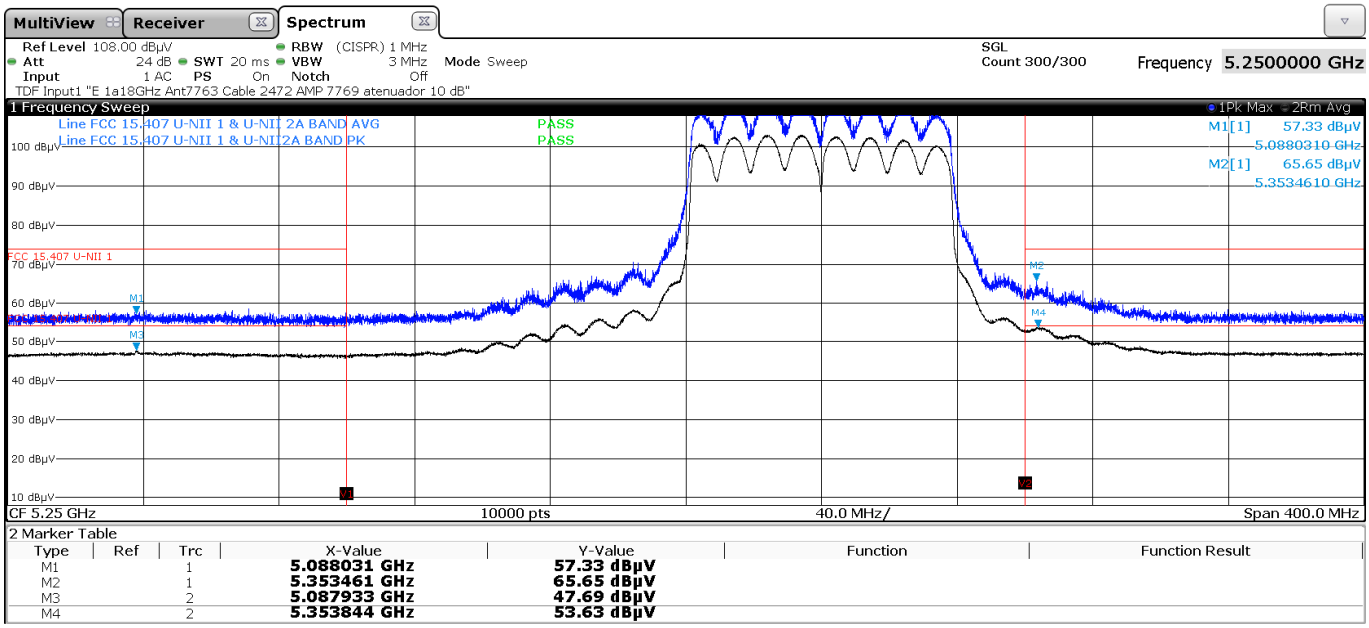


  - Upper Band Edge Channel 62 (Restricted Band 5.35-5.46 GHz)

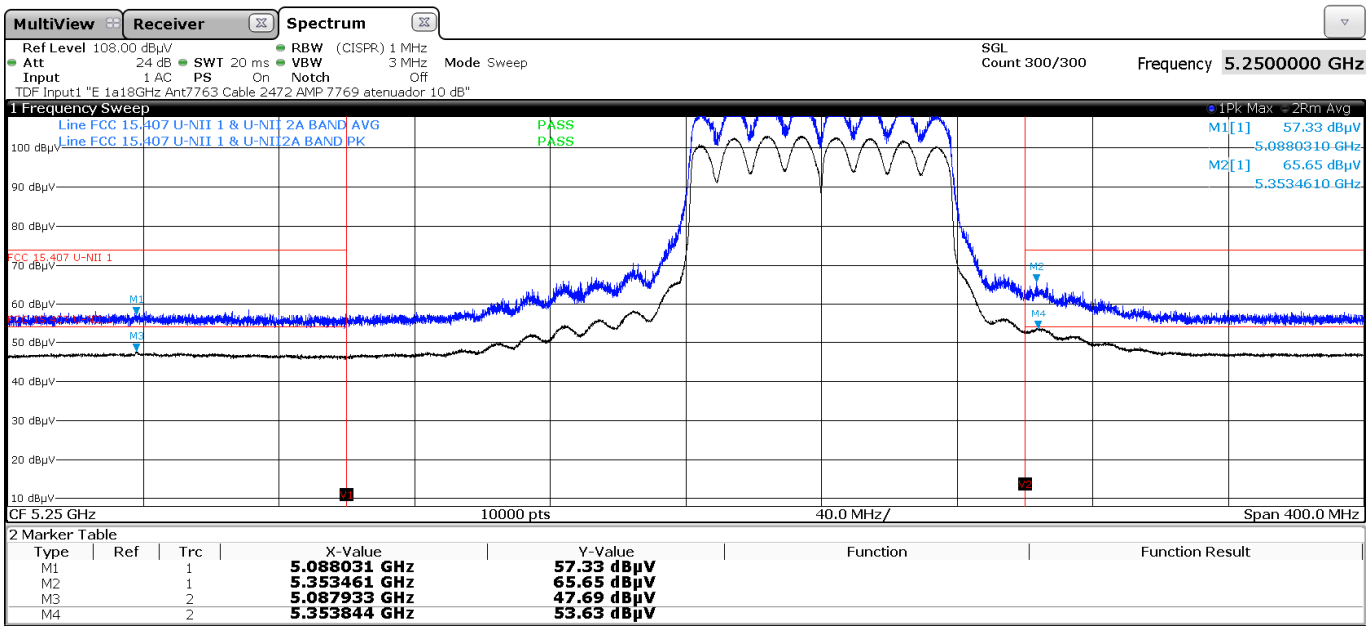


- **MIMO 802.11 ac80:**

  - Lower Band Edge Channel 58 (Restricted Band 4.50-5.15 GHz)

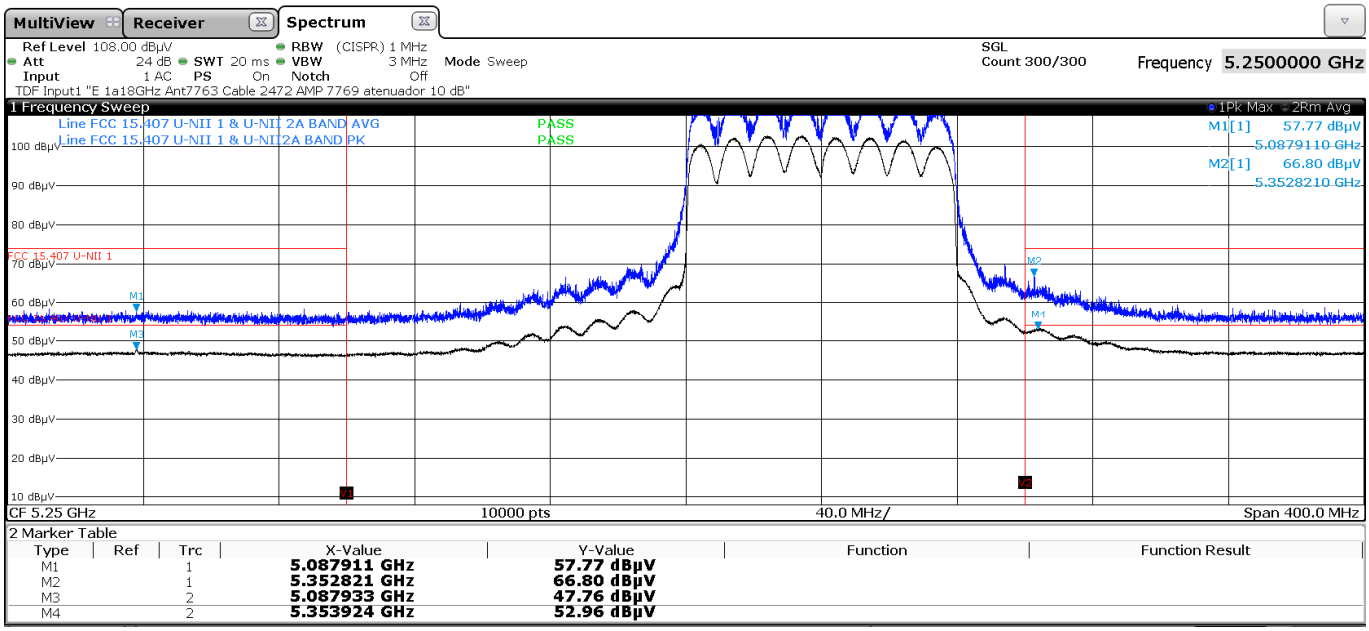


  - Upper Band Edge Channel 58 (Restricted Band 5.35-5.46 GHz)

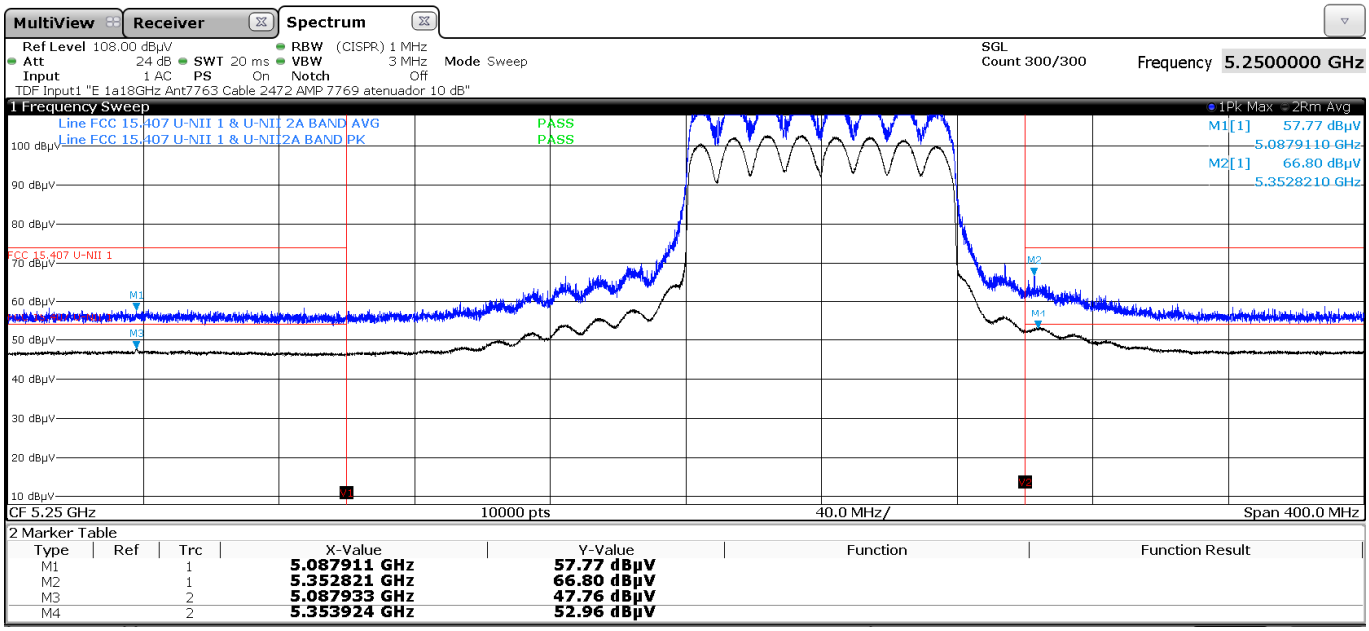


- **MIMO 802.11 ax80:**

  - Lower Band Edge Channel 58 (Restricted Band 4.50-5.15 GHz)



  - Upper Band Edge Channel 58 (Restricted Band 5.35-5.46 GHz)



FCC Section 15.407(h)(1) / RSS-247 6.2.2.1 Transmitter Power Control

SPECIFICATION

FCC 15.407/RSS247: Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW (27dBm).

RESULTS:

The maximum conducted output power was measured using the channel power integration method according to point E) 2) b) (Method SA-1) of 789033 D02 General UNII Test Procedures New Rules v02r01 when the duty cycle is >98%.

In the measure-and-sum approach for MIMO mode, the conducted emission level (*e.g.,* transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units (mW—not dBm).

The e.i.r.p. levels are calculated by adding the antenna gain (dBi).

- Preliminary tests determined the SISO worst-case: WLAN1.
- Preliminary tests determined the MIMO worst-case: WLAN12.

Maximum Declared Antenna Gain:

- SISO Antenna – WLAN1: +3.5 dBi
- MIMO Antennas – WLAN12:
  - WLAN1: +3.5 dBi
  - WLAN2: +2.8 dBi
  - WLAN12: +6.17 dBi

For the SISO technique, the antenna gain is less than 6 dBi.
For the MIMO technique, the antenna gain is higher than 6 dBi.

TPC measurements have only been made for those channels with an E.I.R.P. greater than or equal to 500 mw (27 dBm).

FCC and IC TPC power setting:

POWER SETTINGS (*):

U-NII-2A. FCC and IC:

WLAN1

Channel	Frequency	11a	11n	11ac	11ax
52	5260 MHz	N/A	N/A	N/A	19.5
56	5280 MHz	N/A	N/A	N/A	19.5
60	5300 MHz	N/A	N/A	N/A	19.5
64	5320 MHz	N/A	N/A	N/A	19.5
54	5270 MHz		18.5	18.5	19
62	5310 MHz		N/A	N/A	N/A
58	5290 MHz			N/A	N/A

WLAN2

Channel	Frequency	11a	11n	11ac	11ax
52	5260 MHz	N/A	N/A	N/A	N/A
56	5280 MHz	N/A	N/A	N/A	N/A
60	5300 MHz	N/A	N/A	N/A	N/A
64	5320 MHz	N/A	N/A	N/A	N/A
54	5270 MHz		N/A	N/A	N/A
62	5310 MHz		N/A	N/A	N/A
58	5290 MHz			N/A	N/A

WLAN12

Channel	Frequency	11a	11n	11ac	11ax
52	5260 MHz	13.5	14	14	14
56	5280 MHz	13.5	14	14	14
60	5300 MHz	14	14	14	14.5
64	5320 MHz	14	14	14	14.5
54	5270 MHz		13	13.5	13.5
62	5310 MHz		13	13.5	14
58	5290 MHz			14	14

SISO worst-case:

- Preliminary tests determined the SISO worst-case: WLAN1.

SISO 802.11 ax20 (HE20):

U-NII-2A (5250-5350 MHz):

Channels	Low Channel 52 (5260 MHz)	Low+1 Channel 56 (5280 MHz)	High-1 Channel 60 (5300 MHz)	High Channel 64 (5320 MHz)
Maximum Corrected Conducted Power (dBm)	20.42	20.43	19.99	19.98
Maximum EIRP Corrected Conducted Power (dBm)	23.92	23.93	23.49	23.48
Measurement uncertainty (kHz)	<±36.95			

SISO 802.11 n40 (HT40):

U-NII-2A (5250-5350 MHz):

Channels	Low Channel 54 (5270 MHz)
Maximum Corrected Conducted Power (dBm)	20.24
Maximum EIRP Corrected Conducted Power (dBm)	23.74
Measurement uncertainty (kHz)	<±36.95

SISO 802.11 ac40 (VHT40):

U-NII-2A (5250-5350 MHz):

Channels	Low Channel 54 (5270 MHz)
Maximum Corrected Conducted Power (dBm)	20.22
Maximum EIRP Corrected Conducted Power (dBm)	23.72
Measurement uncertainty (kHz)	<±36.95

SISO 802.11 ax40 (HE40):

U-NII-2A (5250-5350 MHz):

Channels	Low Channel 54 (5270 MHz)
Maximum Corrected Conducted Power (dBm)	20.28
Maximum EIRP Corrected Conducted Power (dBm)	23.78
Measurement uncertainty (kHz)	<±36.95

Verdict: PASS

MIMO worst-case:

- Preliminary tests determined the MIMO worst-case: WLAN12.

MIMO 802.11 a20:

U-NII-2A (5250-5350 MHz):

Channels	Low Channel 52 (5260 MHz)	Low+1 Channel 56 (5280 MHz)	High-1 Channel 60 (5300 MHz)	High Channel 64 (5320 MHz)
Maximum Corrected Conducted Power (dBm)	17.45	17.33	17.66	17.70
Maximum EIRP Corrected Conducted Power (dBm)	23.62	23.50	23.83	23.87
Measurement uncertainty (kHz)	<±36.95			

MIMO 802.11 n20 (HT20):

U-NII-2A (5250-5350 MHz):

Channels	Low Channel 52 (5260 MHz)	Low+1 Channel 56 (5280 MHz)	High-1 Channel 60 (5300 MHz)	High Channel 64 (5320 MHz)
Maximum Corrected Conducted Power (dBm)	17.61	17.49	17.29	17.37
Maximum EIRP Corrected Conducted Power (dBm)	23.78	23.66	23.46	23.54
Measurement uncertainty (kHz)	<±36.95			

MIMO 802.11 ac20 (VHT20):

U-NII-2A (5250-5350 MHz):

Channels	Low Channel 52 (5260 MHz)	Low+1 Channel 56 (5280 MHz)	High-1 Channel 60 (5300 MHz)	High Channel 64 (5320 MHz)
Maximum Corrected Conducted Power (dBm)	17.61	17.49	17.35	17.28
Maximum EIRP Corrected Conducted Power (dBm)	23.78	23.66	23.52	23.45
Measurement uncertainty (kHz)	<±36.95			

MIMO 802.11 ax20 (HE20):

U-NII-2A (5250-5350 MHz):

Channels	Low Channel 52 (5260 MHz)	Low+1 Channel 56 (5280 MHz)	High-1 Channel 60 (5300 MHz)	High Channel 64 (5320 MHz)
Maximum Corrected Conducted Power (dBm)	17.46	17.31	17.64	17.63
Maximum EIRP Corrected Conducted Power (dBm)	23.63	23.48	23.81	23.80
Measurement uncertainty (kHz)	<±36.95			

MIMO 802.11 n40 (HT40):

U-NII-2A (5250-5350 MHz):

Channels	Low Channel 54 (5270 MHz)	High Channel 62 (5310 MHz)
Maximum Corrected Conducted Power (dBm)	17.21	17.62
Maximum EIRP Corrected Conducted Power (dBm)	23.38	23.79
Measurement uncertainty (kHz)	<±36.95	

MIMO 802.11 ac40 (VHT40):

U-NII-2A (5250-5350 MHz):

Channels	Low Channel 54 (5270 MHz)	High Channel 62 (5310 MHz)
Maximum Corrected Conducted Power (dBm)	17.72	17.55
Maximum EIRP Corrected Conducted Power (dBm)	23.89	23.72
Measurement uncertainty (kHz)	<±36.95	

MIMO 802.11 ax40 (HE40):

U-NII-2A (5250-5350 MHz):

Channels	Low Channel 54 (5270 MHz)	High Channel 62 (5310 MHz)
Maximum Corrected Conducted Power (dBm)	17.33	17.69
Maximum EIRP Corrected Conducted Power (dBm)	23.50	23.86
Measurement uncertainty (kHz)	<±36.95	

MIMO 802.11 ac80 (VHT80):

U-NII-2A (5250-5350 MHz):

Channel	Single Channel 58 (5290 MHz)
Maximum Corrected Conducted Power (dBm)	17.73
Maximum EIRP Corrected Conducted Power (dBm)	23.90
Measurement uncertainty (kHz)	<±36.95

MIMO 802.11 ax80 (HE80):

U-NII-2A (5250-5350 MHz):

Channel	Single Channel 58 (5290 MHz)
Maximum Corrected Conducted Power (dBm)	17.50
Maximum EIRP Corrected Conducted Power (dBm)	23.67
Measurement uncertainty (kHz)	<±36.95

Verdict: PASS