

## TEST REPORT ADDENDUM – CONDUCTED



Test of: Radwin Ltd. AP0158770

To: FCC CFR 47 15.407 & ISSED RSS-247

Test Report Serial No.: RDWN48-U4\_Conducted Rev A

This report supersedes: NONE

Issue Date: 20<sup>th</sup> November 2017

As a result of the 6 Mbyte FCC file size limitation potentially large test reports require to be split into smaller components. This document is the Master document controlling Addendum reports as listed below. This Master document combined with the Addendums demonstrate compliance with the standard

| Master Document Number | Addendum Reports             |
|------------------------|------------------------------|
| RDWN48-U4_Master       | RDWN48-U4_Conducted Addendum |
|                        | RDWN48-U4_Radiated Addendum  |

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## 1. TEST RESULTS

### 1.1. Peak Transmit Power

| Conducted Test Conditions for Maximum Conducted Output Power |                                |                            |             |
|--------------------------------------------------------------|--------------------------------|----------------------------|-------------|
| <b>Standard:</b>                                             | FCC CFR 47:15.407              | <b>Ambient Temp. (°C):</b> | 24.0 - 27.5 |
| <b>Test Heading:</b>                                         | Maximum Conducted Output Power | <b>Rel. Humidity (%):</b>  | 32 - 45     |
| <b>Standard Section(s):</b>                                  | 15.407 (a)                     | <b>Pressure (mBars):</b>   | 999 - 1001  |
| <b>Reference Document(s):</b>                                | See Normative References       |                            |             |

#### Test Procedure for Maximum Conducted Output Power Measurement

Method PM (Measurement using an RF average power meter). KDB 789033 defines a methodology using an average wideband power meter. Measurements were made while the EUT was operating in a continuous transmission mode (100% duty cycle) at the appropriate center frequency. All operational modes and frequency bands were measured independently and the resultant calculated. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported separately. A summation ( $\Sigma$ ) of each antenna port output power is provided which includes any offset due to Duty Cycle Correction Factor (DCCF). Testing was performed under ambient conditions at nominal voltage.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document.  
Supporting Information

Calculated Power =  $A + G + Y + 10 \log(1/x)$  dBm

A = Total Power [ $10 \cdot \log_{10}(10^{a/10} + 10^{b/10} + 10^{c/10} + 10^{d/10})$ ]

G = Antenna Gain

Y = Beamforming Gain

x = Duty Cycle (average power measurements only)

#### Limits Maximum Conducted Output Power

##### Operating Frequency Band 5150-5250 MHz

###### 15.407 (a)(1)

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**Operating Frequency Band 5250-5350 and 5470 – 5725 MHz**

**15. 407 (a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**Operating Frequency Band 5725 – 5850 MHz**

**15. 407 (a)(3)**

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.



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#### Equipment Configuration for Peak Transmit Power

|                                |                |                                   |                |
|--------------------------------|----------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 10 MHz         | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 3.25 MBit/s    | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM           | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> |                | Fixed Point-to-point              |                |

#### Test Measurement Results

| Test Frequency | Measured Conducted Output Power (dBm) |       |    |    | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|----------------|---------------------------------------|-------|----|----|------------------------|-------------------------|-------|--------|-------------------|
|                | Port(s)                               |       |    |    |                        |                         |       |        |                   |
| MHz            | a                                     | b     | c  | d  | Σ Port(s) dBm          | MHz                     | dBm   | dB     |                   |
| 5730.0         | 20.90                                 | 16.57 | -- | -- | 22.26                  | --                      | 30.00 | -7.74  |                   |
| 5787.0         | 26.87                                 | 24.37 | -- | -- | 28.81                  | --                      | 30.00 | -1.19  |                   |
| 5845.0         | 22.54                                 | 19.82 | -- | -- | 24.40                  | --                      | 30.00 | -5.60  |                   |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                 |
|--------------------------|---------------------------------|
| Work Instruction:        | WI-01 MEASURING RF OUTPUT POWER |
| Measurement Uncertainty: | ±1.33 dB                        |

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

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#### Equipment Configuration for Peak Transmit Power

|                                |                |                                   |                |
|--------------------------------|----------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 20 MHz         | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 6.50 MBit/s    | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM           | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> |                | Fixed Point-to-point              |                |

#### Test Measurement Results

| Test Frequency | Measured Conducted Output Power (dBm) |       |    |    | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|----------------|---------------------------------------|-------|----|----|------------------------|-------------------------|-------|--------|-------------------|
|                | Port(s)                               |       |    |    |                        |                         |       |        |                   |
| MHz            | a                                     | b     | c  | d  | Σ Port(s) dBm          | MHz                     | dBm   | dB     |                   |
| 5735.0         | 20.16                                 | 16.65 | -- | -- | 21.76                  | --                      | 30.00 | -8.24  |                   |
| 5787.0         | 26.69                                 | 24.26 | -- | -- | 28.65                  | --                      | 30.00 | -1.35  |                   |
| 5840.0         | 22.78                                 | 19.42 | -- | -- | 24.43                  | --                      | 30.00 | -5.57  |                   |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                 |
|--------------------------|---------------------------------|
| Work Instruction:        | WI-01 MEASURING RF OUTPUT POWER |
| Measurement Uncertainty: | $\pm 1.33$ dB                   |

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

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#### Equipment Configuration for Peak Transmit Power

|                                |                      |                                   |                |
|--------------------------------|----------------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 40 MHz               | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 13.50 MBit/s         | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM                 | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable       | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> | Fixed Point-to-point |                                   |                |

#### Test Measurement Results

| Test Frequency | Measured Conducted Output Power (dBm) |       |    |    | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|----------------|---------------------------------------|-------|----|----|------------------------|-------------------------|-------|--------|-------------------|
|                | Port(s)                               |       |    |    |                        |                         |       |        |                   |
| MHz            | a                                     | b     | c  | d  | Σ Port(s) dBm          | MHz                     | dBm   | dB     |                   |
| 5745.0         | 20.83                                 | 18.60 | -- | -- | 22.87                  | --                      | 30.00 | -7.13  |                   |
| 5787.0         | 26.45                                 | 24.02 | -- | -- | 28.41                  | --                      | 30.00 | -1.59  |                   |
| 5830.0         | 22.87                                 | 19.52 | -- | -- | 24.52                  | --                      | 30.00 | -5.48  |                   |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                 |
|--------------------------|---------------------------------|
| Work Instruction:        | WI-01 MEASURING RF OUTPUT POWER |
| Measurement Uncertainty: | $\pm 1.33$ dB                   |

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

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#### Equipment Configuration for Peak Transmit Power

|                                |                      |                                   |                |
|--------------------------------|----------------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 80 MHz               | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 29.30 MBit/s         | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM                 | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable       | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> | Fixed Point-to-point |                                   |                |

#### Test Measurement Results

| Test Frequency | Measured Conducted Output Power (dBm) |       |    |    | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|----------------|---------------------------------------|-------|----|----|------------------------|-------------------------|-------|--------|-------------------|
|                | Port(s)                               |       |    |    |                        |                         |       |        |                   |
| MHz            | a                                     | b     | c  | d  | Σ Port(s) dBm          | MHz                     | dBm   | dB     |                   |
| 5765.0         | 20.24                                 | 18.95 | -- | -- | 22.65                  | --                      | 30.00 | -7.35  |                   |
| 5787.0         | 26.17                                 | 23.78 | -- | -- | 28.15                  | --                      | 30.00 | -1.85  |                   |
| 5810.0         | 20.79                                 | 17.39 | -- | -- | 22.42                  | --                      | 30.00 | -7.58  |                   |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                 |
|--------------------------|---------------------------------|
| Work Instruction:        | WI-01 MEASURING RF OUTPUT POWER |
| Measurement Uncertainty: | $\pm 1.33$ dB                   |

The above measurements are true pulse readings and therefore a Duty Cycling correction factor is not required.

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## 1.2. 6 dB & 99% Bandwidth

| Conducted Test Conditions for 6 dB and 99% Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                     |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|-------------|
| Standard:                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FCC CFR 47:15.407        | Ambient Temp. (°C): | 24.0 - 27.5 |
| Test Heading:                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 dB and 99 % Bandwidth  | Rel. Humidity (%):  | 32 - 45     |
| Standard Section(s):                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15.407 (a)               | Pressure (mBars):   | 999 - 1001  |
| Reference Document(s):                                                                                                                                                                                                                                                                                                                                                                                                                                                               | See Normative References |                     |             |
| <b>Test Procedure for 6 dB and 99% Bandwidth Measurement</b><br>The bandwidth at 6 dB and 99 % is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency. The Resolution Bandwidth was set to 100 kHz. Testing was performed under ambient conditions at nominal voltage. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported. |                          |                     |             |
| Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document.                                                                                                                                                                                                                                                                                                                                                          |                          |                     |             |

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#### Equipment Configuration for 6 dB & 99% Bandwidth

|                                |                      |                                   |                |
|--------------------------------|----------------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 10 MHz               | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 3.25 MBit/s          | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM                 | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable       | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> | Fixed Point-to-point |                                   |                |

#### Test Measurement Results

| Test Frequency | Measured 6 dB Bandwidth (MHz) |                       |    |    | 6 dB Bandwidth (MHz) |        |  |  |
|----------------|-------------------------------|-----------------------|----|----|----------------------|--------|--|--|
|                | Port(s)                       |                       |    |    |                      |        |  |  |
| MHz            | a                             | b                     | c  | d  | Highest              | Lowest |  |  |
| 5730.0         | <a href="#">8.750</a>         | <a href="#">8.830</a> | -- | -- | 8.830                | 8.750  |  |  |
| 5787.0         | <a href="#">8.750</a>         | <a href="#">8.830</a> | -- | -- | 8.830                | 8.750  |  |  |
| 5845.0         | <a href="#">8.750</a>         | <a href="#">8.830</a> | -- | -- | 8.830                | 8.750  |  |  |
|                |                               |                       |    |    |                      |        |  |  |
| Test Frequency | Measured 99% Bandwidth (MHz)  |                       |    |    | 99% Bandwidth (MHz)  |        |  |  |
|                | Port(s)                       |                       |    |    |                      |        |  |  |
| MHz            | a                             | b                     | c  | d  | Highest              | Lowest |  |  |
| 5730.0         | <a href="#">9.705</a>         | <a href="#">9.025</a> | -- | -- | 9.705                | 9.025  |  |  |
| 5787.0         | <a href="#">10.279</a>        | <a href="#">9.014</a> | -- | -- | 10.279               | 9.014  |  |  |
| 5845.0         | <a href="#">9.880</a>         | <a href="#">9.028</a> | -- | -- | 9.880                | 9.028  |  |  |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                  |
|--------------------------|----------------------------------|
| Work Instruction:        | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB                         |

Note: click the links in the above matrix to view the graphical image (plot).

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#### Equipment Configuration for 6 dB & 99% Bandwidth

|                                |                      |                                   |                |
|--------------------------------|----------------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 20 MHz               | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 6.50 MBit/s          | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM                 | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable       | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> | Fixed Point-to-point |                                   |                |

#### Test Measurement Results

Test Results for 6 dB Bandwidth

| Test Frequency | Measured 6 dB Bandwidth (MHz) |                        |    |    | 6 dB Bandwidth (MHz) |        |  |  |
|----------------|-------------------------------|------------------------|----|----|----------------------|--------|--|--|
|                | Port(s)                       |                        |    |    |                      |        |  |  |
| MHz            | a                             | b                      | c  | d  | Highest              | Lowest |  |  |
| 5735.0         | <a href="#">17.500</a>        | <a href="#">17.500</a> | -- | -- | 17.500               | 17.500 |  |  |
| 5787.0         | <a href="#">17.500</a>        | <a href="#">17.500</a> | -- | -- | 17.500               | 17.500 |  |  |
| 5840.0         | <a href="#">17.500</a>        | <a href="#">17.500</a> | -- | -- | 17.500               | 17.500 |  |  |

Test Results for 99% Bandwidth

| Test Frequency | Measured 99% Bandwidth (MHz) |                        |    |    | 99% Bandwidth (MHz) |        |  |  |
|----------------|------------------------------|------------------------|----|----|---------------------|--------|--|--|
|                | Port(s)                      |                        |    |    |                     |        |  |  |
| MHz            | a                            | b                      | c  | d  | Highest             | Lowest |  |  |
| 5735.0         | <a href="#">18.816</a>       | <a href="#">17.767</a> | -- | -- | 18.816              | 17.767 |  |  |
| 5787.0         | <a href="#">19.267</a>       | <a href="#">17.790</a> | -- | -- | 19.267              | 17.790 |  |  |
| 5840.0         | <a href="#">18.693</a>       | <a href="#">17.791</a> | -- | -- | 18.693              | 17.791 |  |  |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                  |
|--------------------------|----------------------------------|
| Work Instruction:        | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB                         |

Note: click the links in the above matrix to view the graphical image (plot).

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#### Equipment Configuration for 6 dB & 99% Bandwidth

|                                |                      |                                   |                |
|--------------------------------|----------------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 40 MHz               | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 13.50 MBit/s         | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM                 | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable       | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> | Fixed Point-to-point |                                   |                |

#### Test Measurement Results

Test Results - Power Spectral Density

| Test Frequency | Measured 6 dB Bandwidth (MHz) |                        |    |    | 6 dB Bandwidth (MHz) |        |  |  |
|----------------|-------------------------------|------------------------|----|----|----------------------|--------|--|--|
|                | Port(s)                       |                        |    |    |                      |        |  |  |
| MHz            | a                             | b                      | c  | d  | Highest              | Lowest |  |  |
| 5745.0         | <a href="#">36.000</a>        | <a href="#">36.300</a> | -- | -- | 36.300               | 36.000 |  |  |
| 5787.0         | <a href="#">36.300</a>        | <a href="#">36.300</a> | -- | -- | 36.300               | 36.300 |  |  |
| 5830.0         | <a href="#">36.300</a>        | <a href="#">36.300</a> | -- | -- | 36.300               | 36.300 |  |  |

| Test Frequency | Measured 99% Bandwidth (MHz) |                        |    |    | 99% Bandwidth (MHz) |        |  |  |
|----------------|------------------------------|------------------------|----|----|---------------------|--------|--|--|
|                | Port(s)                      |                        |    |    |                     |        |  |  |
| MHz            | a                            | b                      | c  | d  | Highest             | Lowest |  |  |
| 5745.0         | <a href="#">37.442</a>       | <a href="#">36.588</a> | -- | -- | 37.442              | 36.588 |  |  |
| 5787.0         | <a href="#">38.983</a>       | <a href="#">36.513</a> | -- | -- | 38.983              | 36.513 |  |  |
| 5830.0         | <a href="#">37.110</a>       | <a href="#">36.572</a> | -- | -- | 37.110              | 36.572 |  |  |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                  |
|--------------------------|----------------------------------|
| Work Instruction:        | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB                         |

Note: click the links in the above matrix to view the graphical image (plot).

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#### Equipment Configuration for 6 dB & 99% Bandwidth

|                                |                      |                                   |                |
|--------------------------------|----------------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 80 MHz               | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 29.30 MBit/s         | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM                 | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable       | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> | Fixed Point-to-point |                                   |                |

#### Test Measurement Results

Test Results - 6 dB Bandwidth

| Test Frequency | Measured 6 dB Bandwidth (MHz) |                        |    |    | 6 dB Bandwidth (MHz) |        |  |  |
|----------------|-------------------------------|------------------------|----|----|----------------------|--------|--|--|
|                | Port(s)                       |                        |    |    |                      |        |  |  |
| MHz            | a                             | b                      | c  | d  | Highest              | Lowest |  |  |
| 5765.0         | <a href="#">75.300</a>        | <a href="#">74.700</a> | -- | -- | 75.300               | 74.700 |  |  |
| 5787.0         | <a href="#">75.300</a>        | <a href="#">75.300</a> | -- | -- | 75.300               | 75.300 |  |  |
| 5810.0         | <a href="#">75.300</a>        | <a href="#">75.300</a> | -- | -- | 75.300               | 75.300 |  |  |

Test Results - 99% Bandwidth

| Test Frequency | Measured 99% Bandwidth (MHz) |                        |    |    | 99% Bandwidth (MHz) |        |  |  |
|----------------|------------------------------|------------------------|----|----|---------------------|--------|--|--|
|                | Port(s)                      |                        |    |    |                     |        |  |  |
| MHz            | a                            | b                      | c  | d  | Highest             | Lowest |  |  |
| 5765.0         | <a href="#">77.505</a>       | <a href="#">77.082</a> | -- | -- | 77.505              | 77.082 |  |  |
| 5787.0         | <a href="#">77.981</a>       | <a href="#">75.627</a> | -- | -- | 77.981              | 75.627 |  |  |
| 5810.0         | <a href="#">76.428</a>       | <a href="#">75.667</a> | -- | -- | 76.428              | 75.667 |  |  |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                  |
|--------------------------|----------------------------------|
| Work Instruction:        | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB                         |

Note: click the links in the above matrix to view the graphical image (plot).

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### 1.3. Power Spectral Density

| Conducted Test Conditions for Power Spectral Density |                          |                            |             |
|------------------------------------------------------|--------------------------|----------------------------|-------------|
| <b>Standard:</b>                                     | FCC CFR 47:15.407        | <b>Ambient Temp. (°C):</b> | 24.0 - 27.5 |
| <b>Test Heading:</b>                                 | Power Spectral Density   | <b>Rel. Humidity (%):</b>  | 32 - 45     |
| <b>Standard Section(s):</b>                          | 15.407 (a)               | <b>Pressure (mBars):</b>   | 999 - 1001  |
| <b>Reference Document(s):</b>                        | See Normative References |                            |             |

#### Test Procedure for Power Spectral Density

The in-band power spectral density was measured using the test technique specified in KDB 789033. A 1 MHz measurement bandwidth was implemented for the analyzer sweep. Once the sweep is complete the analyzer trace data is downloaded and used for post processing purposes.

Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured separately. The Peak Power Spectral Density is the highest level found across the emission bandwidth. With multiple antenna port measurements the numerical analyzer data from each port is summed (Σ) and a link to this additional graphic is provided.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document.

Measure and sum the spectra across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The individual spectra are then summed mathematically in linear power units. Unlike in-band power measurements, in which the sum involves a single measured value (output power) from each output, measurements for compliance with PSD limits involve summing entire spectra across corresponding frequency bins on the various outputs. Consistency is maintained for any device with multiple transmitter outputs to be certain the individual outputs are all aligned with the same span and same number of points. In this instance, the linear power spectrum value within the first spectral bin of output 0 is summed with that in the first spectral bin of output 1, and the first spectral bin of output 2, and so on up to the Nth output to obtain the true value for the first frequency bin of the summed spectrum. The summed spectrum value for each frequency bin is computed in this fashion. These summed spectral values were post processed and the resulting numerical and graphical data presented.

NOTE: It may be observed that spectrum in some plots break the limit line however this in itself does NOT constitute a failure. In all cases a spectrum summation plot is provided in order to prove compliance. A failure occurs only after the summation of all spectrum plots have been summed and are found to be greater than the limit line.

#### Supporting Information

Calculated Power =  $A + 10 \log(1/x)$  dBm

A = Total Power Spectral Density [ $10 \cdot \log_{10}(10^{a/10} + 10^{b/10} + 10^{c/10} + 10^{d/10})$ ]

x = Duty Cycle

#### Limits Power Spectral Density

##### Operating Frequency Band 5150-5250 MHz

##### 15.407 (a)(1)

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



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(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **Operating Frequency Band 5250-5350 and 5470 – 5725 MHz**

##### **15. 407 (a)(2)**

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **Operating Frequency Band 5725 – 5850 MHz**

##### **15. 407 (a)(3)**

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.



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#### Equipment Configuration for Power Spectral Density

|                                |                |                                   |                |
|--------------------------------|----------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 10 MHz         | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 3.25 MBit/s    | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM           | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> |                | Fixed Point-to-point              |                |

#### Test Measurement Results

| Test Frequency | Measured Power Spectral Density |                        |    |    | Summation Peak Marker + DCCF (+0 dB) | Limit       | Margin |
|----------------|---------------------------------|------------------------|----|----|--------------------------------------|-------------|--------|
|                | Port(s) (dBm/500 KHz)           |                        |    |    |                                      |             |        |
| MHz            | a                               | b                      | c  | d  | dBm/500 KHz                          | dBm/500 KHz | dB     |
| 5730.0         | <a href="#">15.151</a>          | <a href="#">13.222</a> | -- | -- | <a href="#">17.107</a>               | 30.0        | -12.9  |
| 5787.0         | <a href="#">15.382</a>          | <a href="#">13.766</a> | -- | -- | <a href="#">17.397</a>               | 30.0        | -12.6  |
| 5845.0         | <a href="#">15.323</a>          | <a href="#">13.796</a> | -- | -- | <a href="#">17.445</a>               | 30.0        | -12.6  |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                  |
|--------------------------|----------------------------------|
| Work Instruction:        | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB                         |

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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#### Equipment Configuration for Power Spectral Density

|                                |                      |                                   |                |
|--------------------------------|----------------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 20 MHz               | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 6.50 MBit/s          | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM                 | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable       | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> | Fixed Point-to-point |                                   |                |

#### Test Measurement Results

| Test Frequency | Measured Power Spectral Density |                        |    |    | Summation Peak Marker + DCCF (+0 dB) | Limit       | Margin |
|----------------|---------------------------------|------------------------|----|----|--------------------------------------|-------------|--------|
|                | Port(s) (dBm/500 KHz)           |                        |    |    |                                      |             |        |
| MHz            | a                               | b                      | c  | d  | dBm/500 KHz                          | dBm/500 KHz | dB     |
| 5735.0         | <a href="#">12.578</a>          | <a href="#">11.142</a> | -- | -- | <a href="#">14.831</a>               | 30.0        | -15.2  |
| 5787.0         | <a href="#">12.403</a>          | <a href="#">10.473</a> | -- | -- | <a href="#">14.495</a>               | 30.0        | -15.5  |
| 5840.0         | <a href="#">12.571</a>          | <a href="#">11.065</a> | -- | -- | <a href="#">14.714</a>               | 30.0        | -15.3  |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                  |
|--------------------------|----------------------------------|
| Work Instruction:        | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB                         |

DCCF - Duty Cycle Correction Factor

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#### Equipment Configuration for Power Spectral Density

|                                |                      |                                   |                |
|--------------------------------|----------------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 40 MHz               | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 13.50 MBit/s         | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM                 | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable       | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> | Fixed Point-to-point |                                   |                |

#### Test Measurement Results

| Test Frequency | Measured Power Spectral Density |                       |    |    | Summation Peak Marker + DCCF (+0 dB) | Limit       | Margin |
|----------------|---------------------------------|-----------------------|----|----|--------------------------------------|-------------|--------|
|                | Port(s) (dBm/500 KHz)           |                       |    |    |                                      |             |        |
| MHz            | a                               | b                     | c  | d  | dBm/500 KHz                          | dBm/500 KHz | dB     |
| 5745.0         | <a href="#">9.683</a>           | <a href="#">8.410</a> | -- | -- | <a href="#">11.952</a>               | 30.0        | -18.1  |
| 5787.0         | <a href="#">9.310</a>           | <a href="#">7.570</a> | -- | -- | <a href="#">11.384</a>               | 30.0        | -18.6  |
| 5830.0         | <a href="#">9.568</a>           | <a href="#">7.815</a> | -- | -- | <a href="#">11.566</a>               | 30.0        | -18.4  |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                  |
|--------------------------|----------------------------------|
| Work Instruction:        | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB                         |

DCCF - Duty Cycle Correction Factor

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#### Equipment Configuration for Power Spectral Density

|                                |                      |                                   |                |
|--------------------------------|----------------------|-----------------------------------|----------------|
| <b>Variant:</b>                | 80 MHz               | <b>Duty Cycle (%):</b>            | 100.0          |
| <b>Data Rate:</b>              | 29.30 MBit/s         | <b>Antenna Gain (dBi):</b>        | 11.00          |
| <b>Modulation:</b>             | OFDM                 | <b>Beam Forming Gain (Y)(dB):</b> | Not Applicable |
| <b>TPC:</b>                    | Not Applicable       | <b>Tested By:</b>                 | CC             |
| <b>Engineering Test Notes:</b> | Fixed Point-to-point |                                   |                |

#### Test Measurement Results

| Test Frequency | Measured Power Spectral Density |                       |    |    | Summation Peak Marker + DCCF (+0 dB) | Limit       | Margin |
|----------------|---------------------------------|-----------------------|----|----|--------------------------------------|-------------|--------|
|                | Port(s) (dBm/500 KHz)           |                       |    |    |                                      |             |        |
| MHz            | a                               | b                     | c  | d  | dBm/500 KHz                          | dBm/500 KHz | dB     |
| 5765.0         | <a href="#">6.529</a>           | <a href="#">7.547</a> | -- | -- | <a href="#">10.000</a>               | 30.0        | -20.0  |
| 5787.0         | <a href="#">6.259</a>           | <a href="#">4.527</a> | -- | -- | <a href="#">8.230</a>                | 30.0        | -21.8  |
| 5810.0         | <a href="#">5.982</a>           | <a href="#">4.794</a> | -- | -- | <a href="#">8.103</a>                | 30.0        | -21.9  |

#### Traceability to Industry Recognized Test Methodologies

|                          |                                  |
|--------------------------|----------------------------------|
| Work Instruction:        | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB                         |

DCCF - Duty Cycle Correction Factor

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## **A. APPENDIX - GRAPHICAL IMAGES**

---

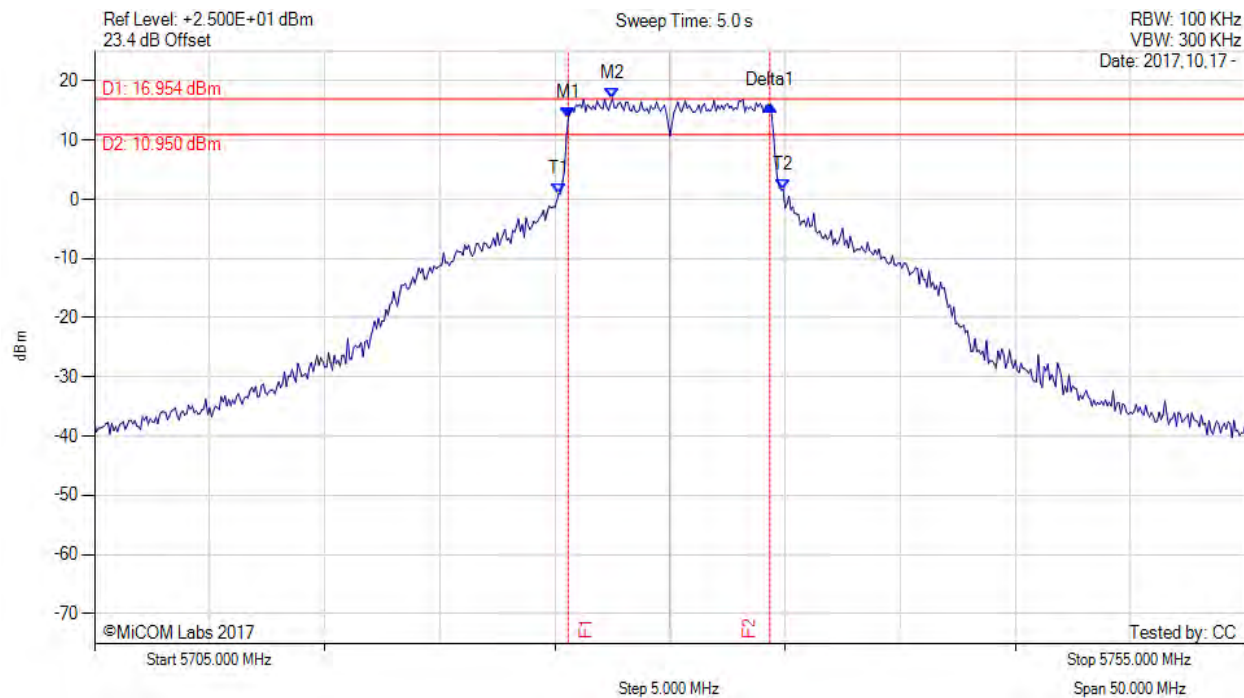
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## A.1. 6 dB & 99% Bandwidth



### 6 dB & 99% BANDWIDTH

Variant: 10 MHz, Channel: 5730.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                             | Test Results                                                            |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5725.580 MHz : 13.786 dBm<br>M2 : 5727.500 MHz : 16.954 dBm<br>Delta1 : 8.750 MHz : 2.142 dB<br>T1 : 5725.167 MHz : 0.967 dBm<br>T2 : 5734.917 MHz : 1.642 dBm<br>OBW : 9.705 MHz | Measured 6 dB Bandwidth: 8.750 MHz<br>Measured 99% Bandwidth: 9.705 MHz |

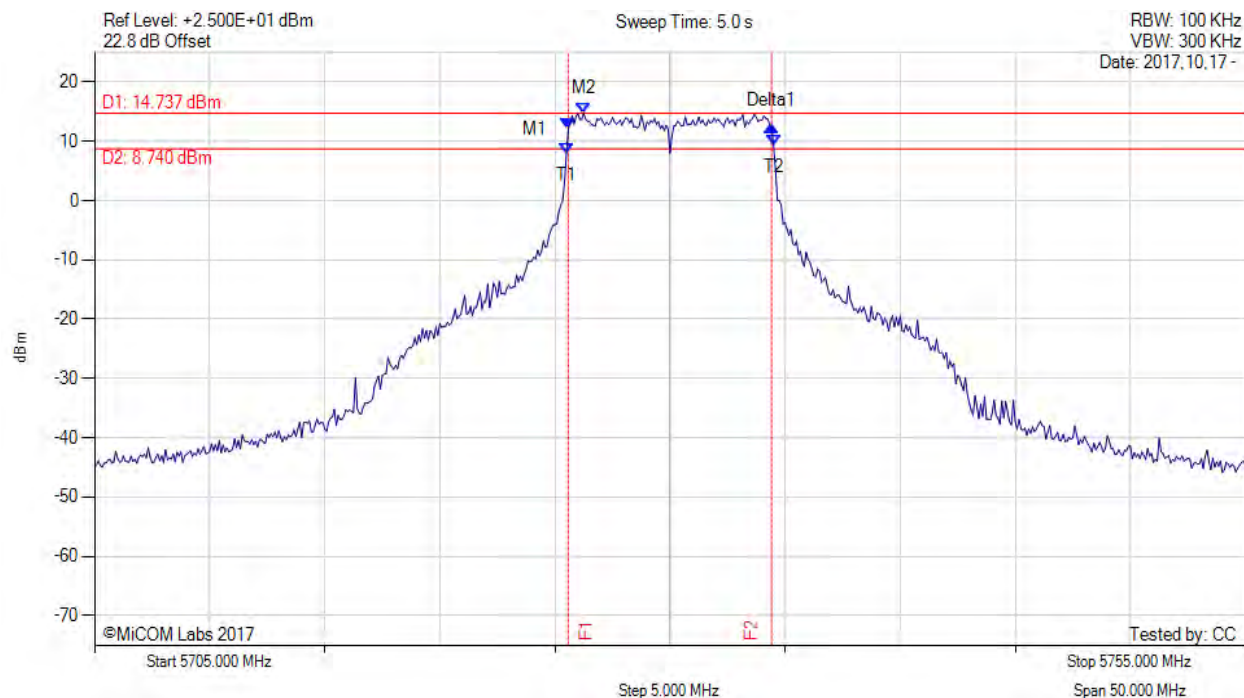
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6 dB & 99% BANDWIDTH

Variant: 10 MHz, Channel: 5730.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                             | Test Results                                                            |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5725.580 MHz : 12.146 dBm<br>M2 : 5726.250 MHz : 14.737 dBm<br>Delta1 : 8.830 MHz : 0.461 dB<br>T1 : 5725.500 MHz : 7.930 dBm<br>T2 : 5734.500 MHz : 9.225 dBm<br>OBW : 9.025 MHz | Measured 6 dB Bandwidth: 8.830 MHz<br>Measured 99% Bandwidth: 9.025 MHz |

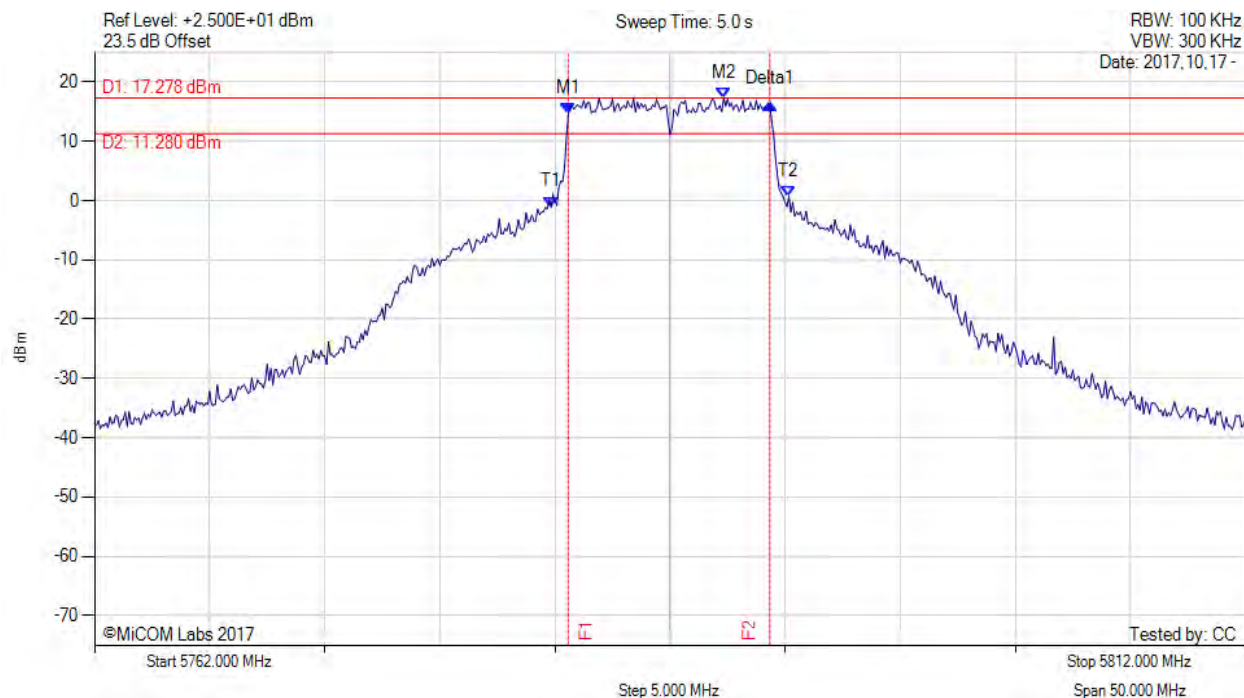
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6 dB & 99% BANDWIDTH

Variant: 10 MHz, Channel: 5787.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                               | Test Results                                                             |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5782.580 MHz : 14.753 dBm<br>M2 : 5789.330 MHz : 17.278 dBm<br>Delta1 : 8.750 MHz : 1.471 dB<br>T1 : 5781.833 MHz : -1.085 dBm<br>T2 : 5792.167 MHz : 0.677 dBm<br>OBW : 10.279 MHz | Measured 6 dB Bandwidth: 8.750 MHz<br>Measured 99% Bandwidth: 10.279 MHz |

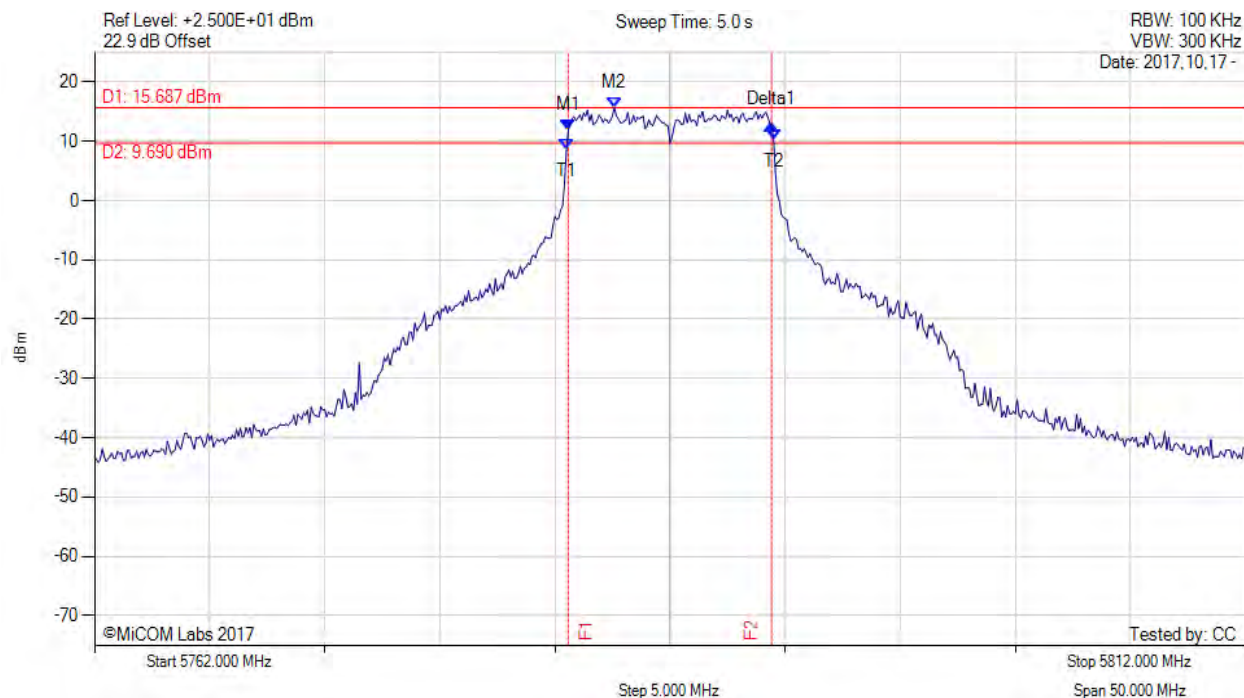
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6 dB & 99% BANDWIDTH

Variant: 10 MHz, Channel: 5787.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                              | Test Results                                                            |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5782.580 MHz : 11.941 dBm<br>M2 : 5784.580 MHz : 15.687 dBm<br>Delta1 : 8.830 MHz : 0.852 dB<br>T1 : 5782.500 MHz : 8.538 dBm<br>T2 : 5791.500 MHz : 10.260 dBm<br>OBW : 9.014 MHz | Measured 6 dB Bandwidth: 8.830 MHz<br>Measured 99% Bandwidth: 9.014 MHz |

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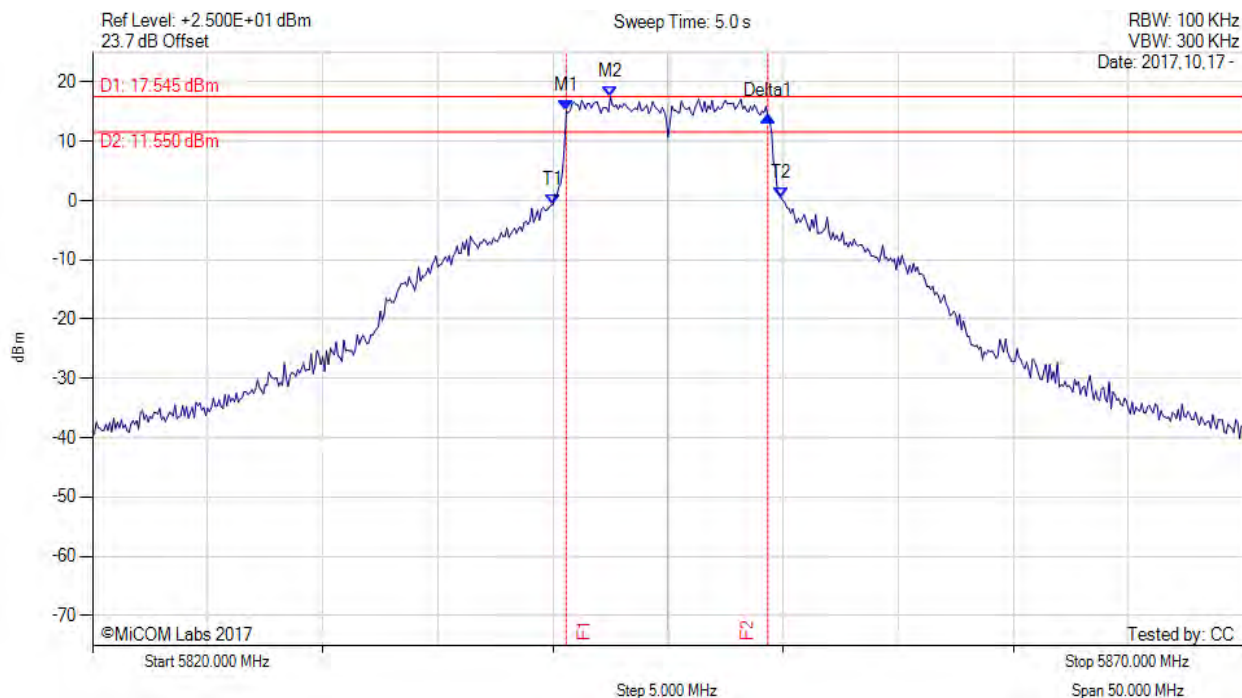
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### 6 dB & 99% BANDWIDTH

Variant: 10 MHz, Channel: 5845.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                               | Test Results                                                            |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5840.580 MHz : 15.066 dBm<br>M2 : 5842.500 MHz : 17.545 dBm<br>Delta1 : 8.750 MHz : -0.766 dB<br>T1 : 5840.000 MHz : -0.679 dBm<br>T2 : 5849.917 MHz : 0.412 dBm<br>OBW : 9.880 MHz | Measured 6 dB Bandwidth: 8.750 MHz<br>Measured 99% Bandwidth: 9.880 MHz |

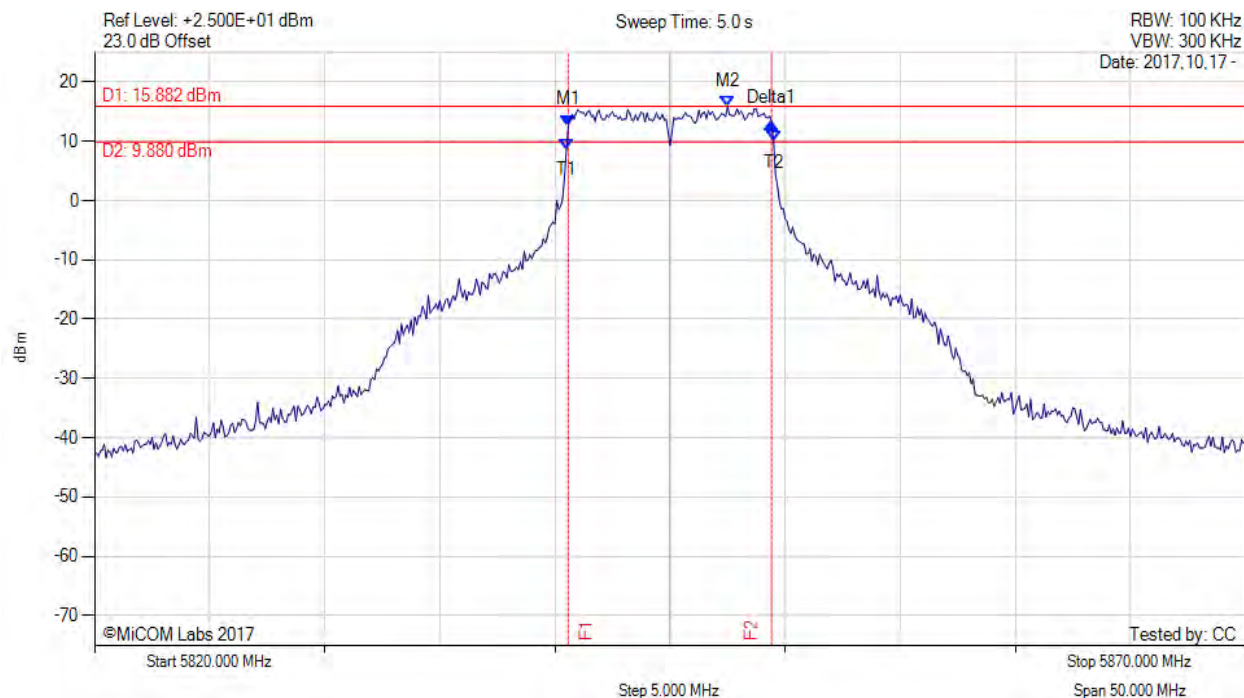
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6 dB & 99% BANDWIDTH

Variant: 10 MHz, Channel: 5845.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                             | Test Results                                                            |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5840.580 MHz : 12.696 dBm<br>M2 : 5847.500 MHz : 15.882 dBm<br>Delta1 : 8.830 MHz : 0.386 dB<br>T1 : 5840.500 MHz : 8.650 dBm<br>T2 : 5849.500 MHz : 9.934 dBm<br>OBW : 9.028 MHz | Measured 6 dB Bandwidth: 8.830 MHz<br>Measured 99% Bandwidth: 9.028 MHz |

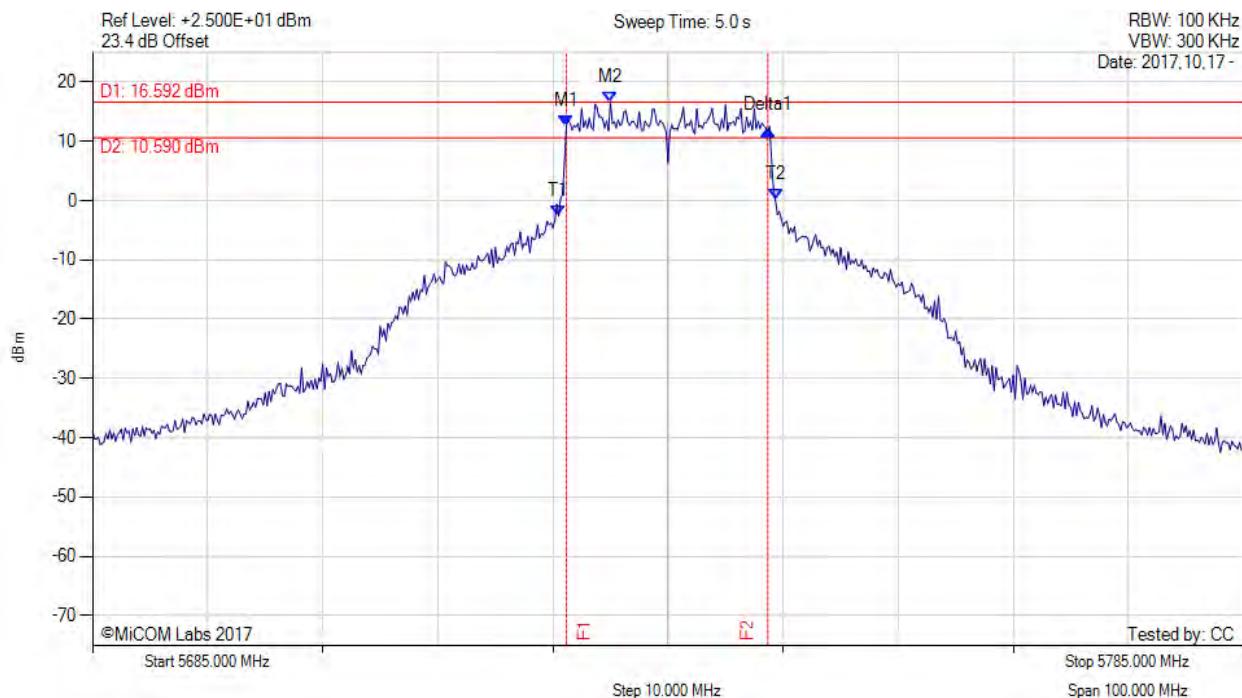
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6 dB & 99% BANDWIDTH

Variant: 20 MHz, Channel: 5735.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                                 | Test Results                                                              |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5726.170 MHz : 12.653 dBm<br>M2 : 5730.000 MHz : 16.592 dBm<br>Delta1 : 17.500 MHz : -0.805 dB<br>T1 : 5725.500 MHz : -2.575 dBm<br>T2 : 5744.333 MHz : 0.138 dBm<br>OBW : 18.816 MHz | Measured 6 dB Bandwidth: 17.500 MHz<br>Measured 99% Bandwidth: 18.816 MHz |

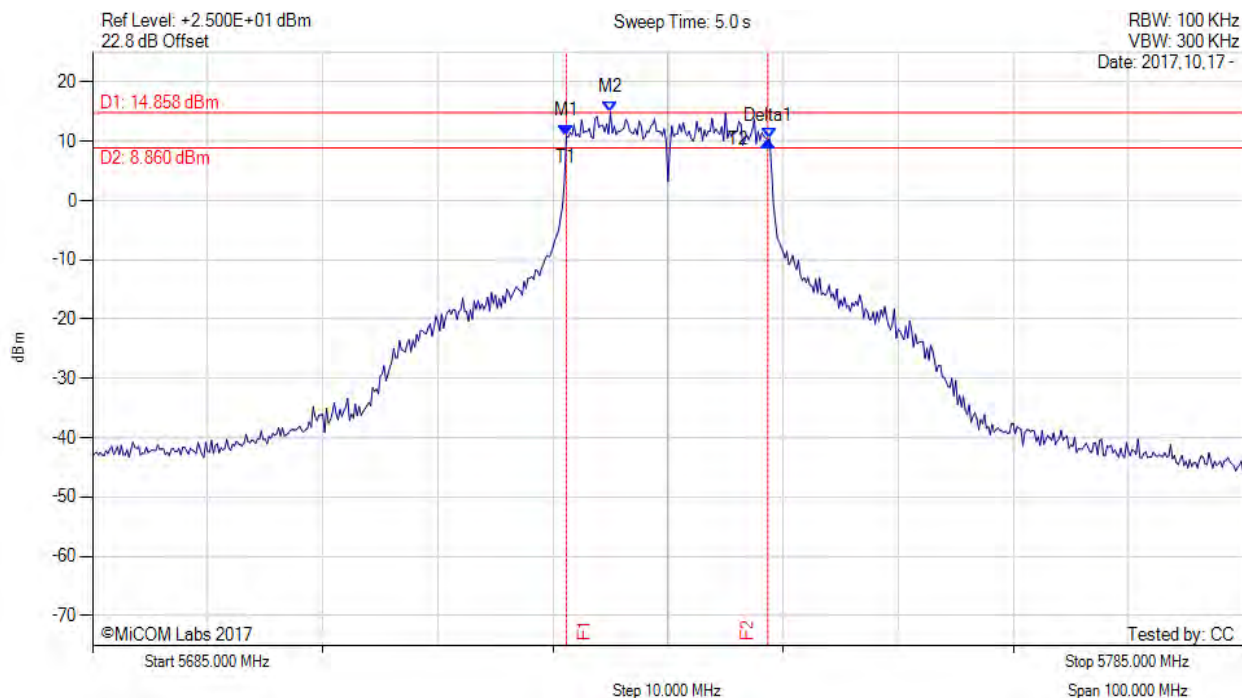
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6 dB & 99% BANDWIDTH

Variant: 20 MHz, Channel: 5735.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                                  | Test Results                                                              |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5726.170 MHz : 10.942 dBm<br>M2 : 5730.000 MHz : 14.858 dBm<br>Delta1 : 17.500 MHz : -0.827 dB<br>T1 : 5726.167 MHz : 10.942 dBm<br>T2 : 5743.833 MHz : 10.463 dBm<br>OBW : 17.767 MHz | Measured 6 dB Bandwidth: 17.500 MHz<br>Measured 99% Bandwidth: 17.767 MHz |

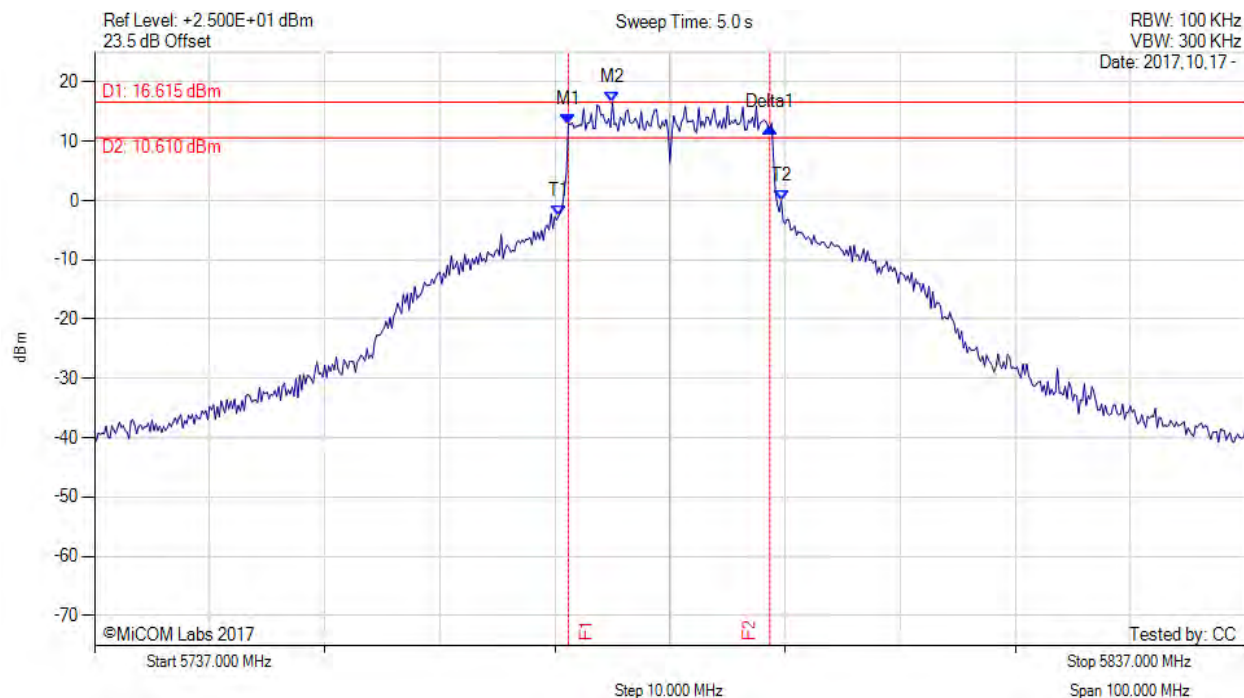
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6 dB & 99% BANDWIDTH

Variant: 20 MHz, Channel: 5787.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                                 | Test Results                                                              |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5778.170 MHz : 12.904 dBm<br>M2 : 5782.000 MHz : 16.615 dBm<br>Delta1 : 17.500 MHz : -0.643 dB<br>T1 : 5777.333 MHz : -2.584 dBm<br>T2 : 5796.667 MHz : 0.002 dBm<br>OBW : 19.267 MHz | Measured 6 dB Bandwidth: 17.500 MHz<br>Measured 99% Bandwidth: 19.267 MHz |

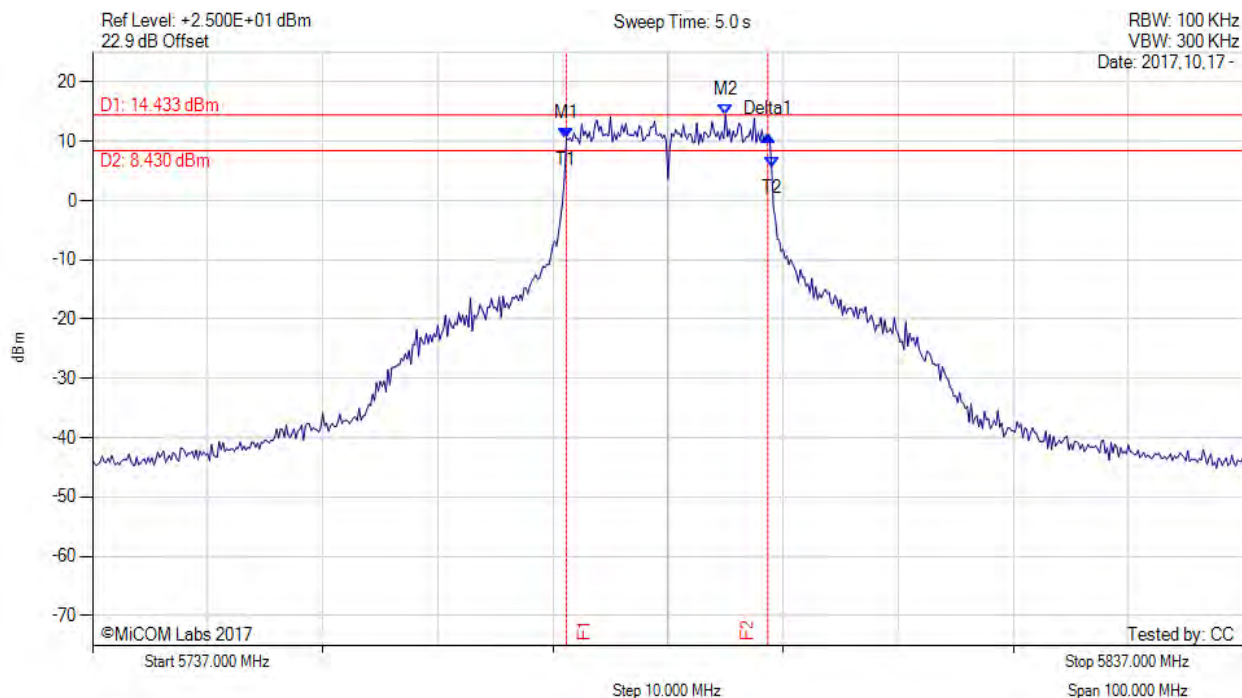
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6 dB & 99% BANDWIDTH

Variant: 20 MHz, Channel: 5787.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                                | Test Results                                                              |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5778.170 MHz : 10.405 dBm<br>M2 : 5792.000 MHz : 14.433 dBm<br>Delta1 : 17.500 MHz : 0.653 dB<br>T1 : 5778.167 MHz : 10.405 dBm<br>T2 : 5796.000 MHz : 5.640 dBm<br>OBW : 17.790 MHz | Measured 6 dB Bandwidth: 17.500 MHz<br>Measured 99% Bandwidth: 17.790 MHz |

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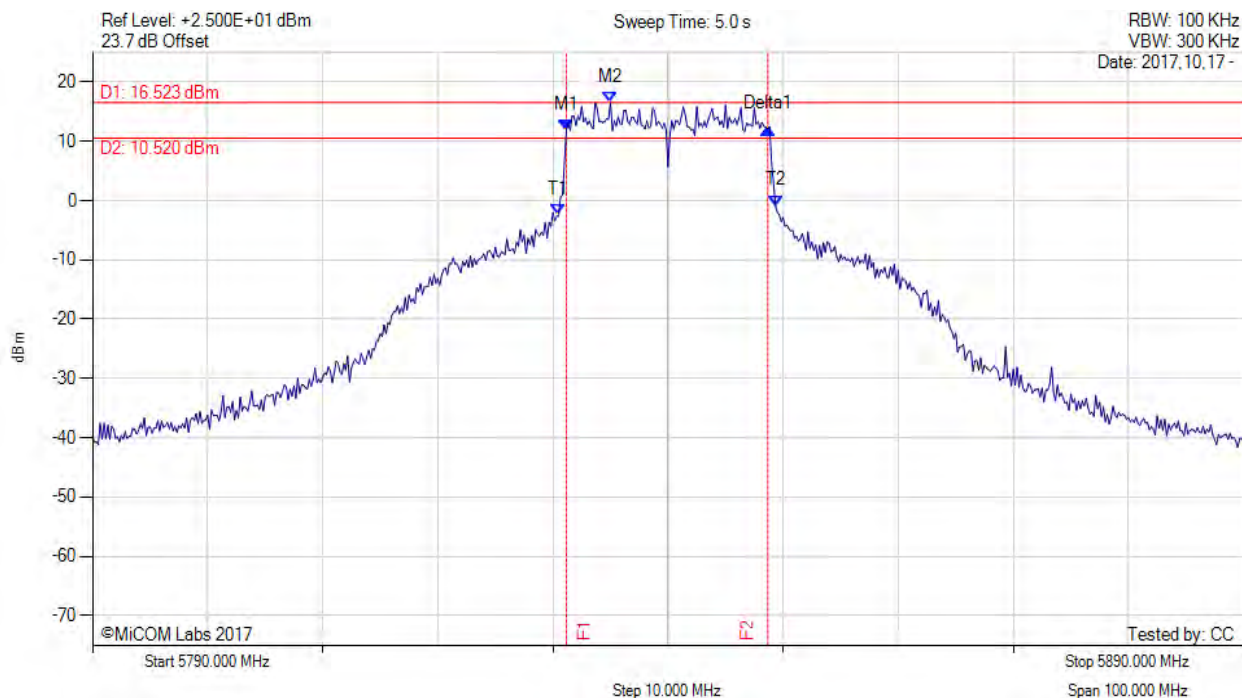
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6 dB & 99% BANDWIDTH

Variant: 20 MHz, Channel: 5840.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                                 | Test Results                                                              |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5831.170 MHz : 11.949 dBm<br>M2 : 5835.000 MHz : 16.523 dBm<br>Delta1 : 17.500 MHz : 0.065 dB<br>T1 : 5830.500 MHz : -2.472 dBm<br>T2 : 5849.333 MHz : -0.840 dBm<br>OBW : 18.693 MHz | Measured 6 dB Bandwidth: 17.500 MHz<br>Measured 99% Bandwidth: 18.693 MHz |

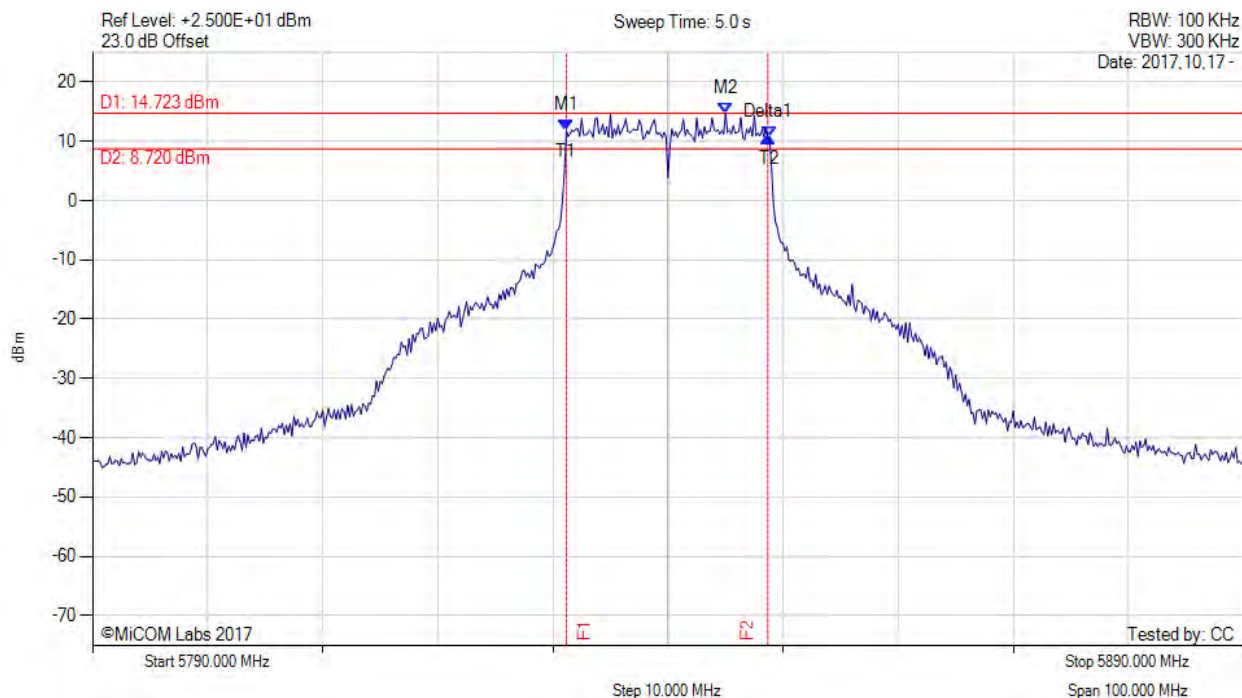
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6 dB & 99% BANDWIDTH

Variant: 20 MHz, Channel: 5840.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                                  | Test Results                                                              |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5831.170 MHz : 11.798 dBm<br>M2 : 5845.000 MHz : 14.723 dBm<br>Delta1 : 17.500 MHz : -1.093 dB<br>T1 : 5831.167 MHz : 11.798 dBm<br>T2 : 5848.833 MHz : 10.622 dBm<br>OBW : 17.791 MHz | Measured 6 dB Bandwidth: 17.500 MHz<br>Measured 99% Bandwidth: 17.791 MHz |

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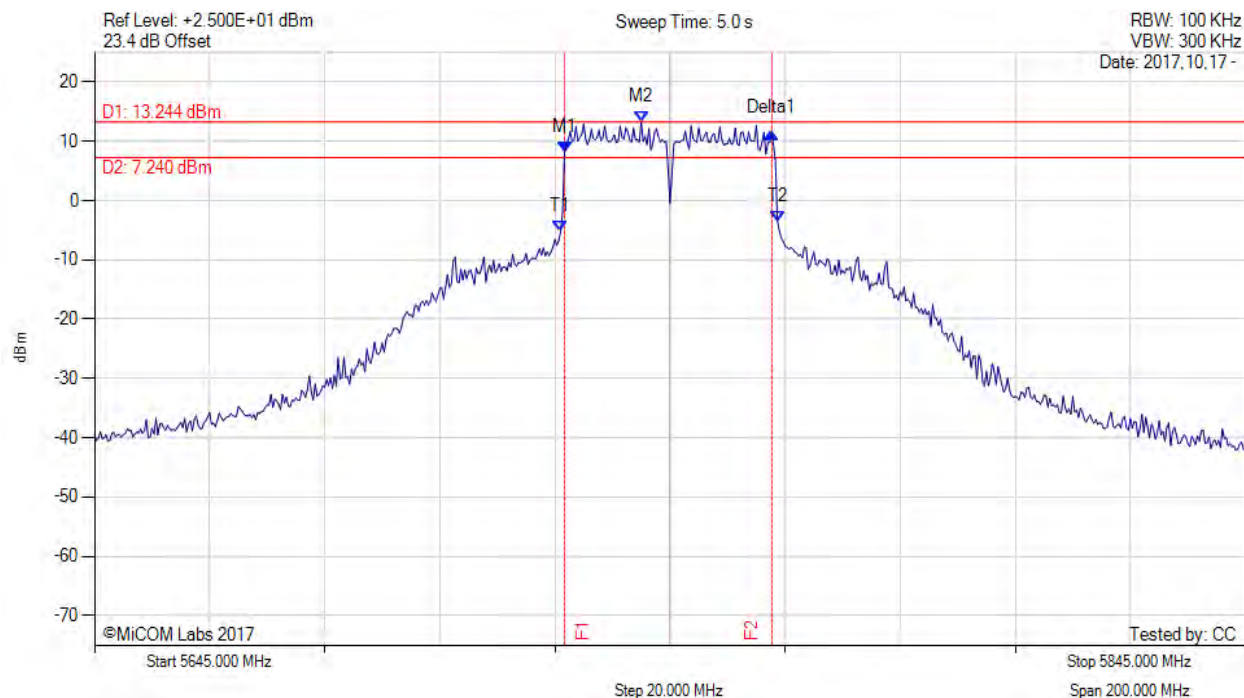
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6 dB & 99% BANDWIDTH

Variant: 40 MHz, Channel: 5745.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                                | Test Results                                                              |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5726.700 MHz : 8.137 dBm<br>M2 : 5740.000 MHz : 13.244 dBm<br>Delta1 : 36.000 MHz : 3.232 dB<br>T1 : 5726.000 MHz : -5.203 dBm<br>T2 : 5763.667 MHz : -3.447 dBm<br>OBW : 37.442 MHz | Measured 6 dB Bandwidth: 36.000 MHz<br>Measured 99% Bandwidth: 37.442 MHz |

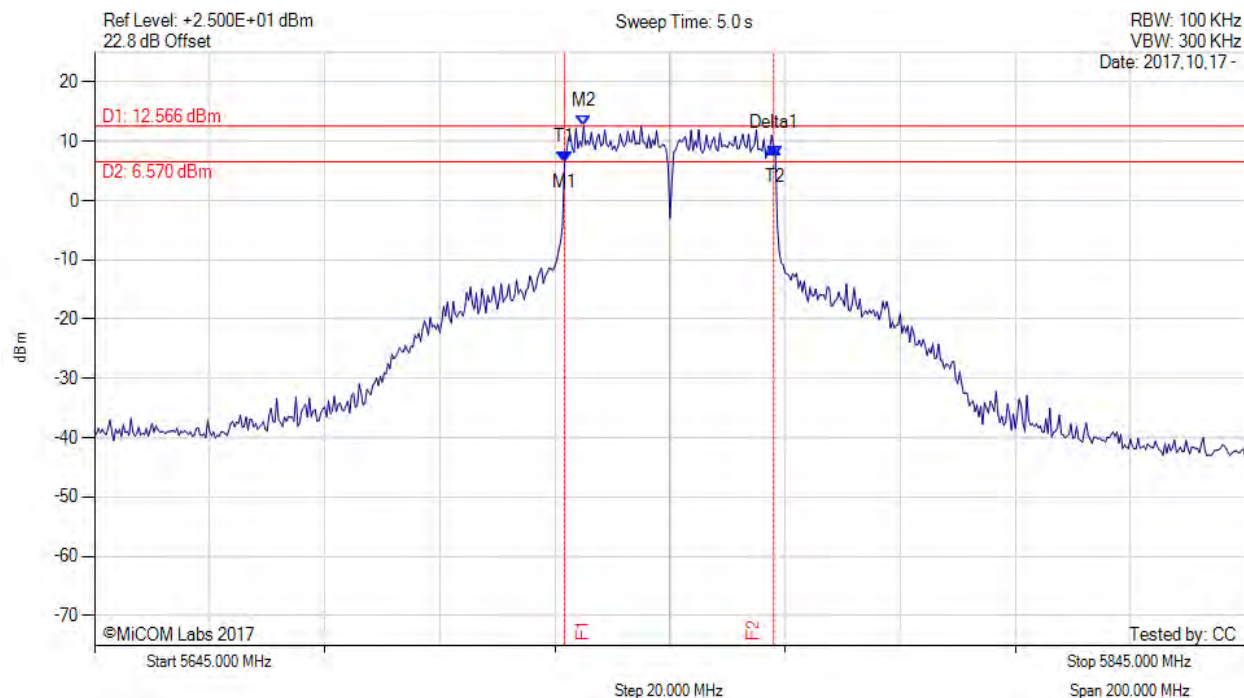
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6 dB & 99% BANDWIDTH

Variant: 40 MHz, Channel: 5745.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                              | Test Results                                                              |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5726.700 MHz : 6.603 dBm<br>M2 : 5730.000 MHz : 12.566 dBm<br>Delta1 : 36.300 MHz : 2.270 dB<br>T1 : 5726.667 MHz : 6.603 dBm<br>T2 : 5763.333 MHz : 7.481 dBm<br>OBW : 36.588 MHz | Measured 6 dB Bandwidth: 36.300 MHz<br>Measured 99% Bandwidth: 36.588 MHz |

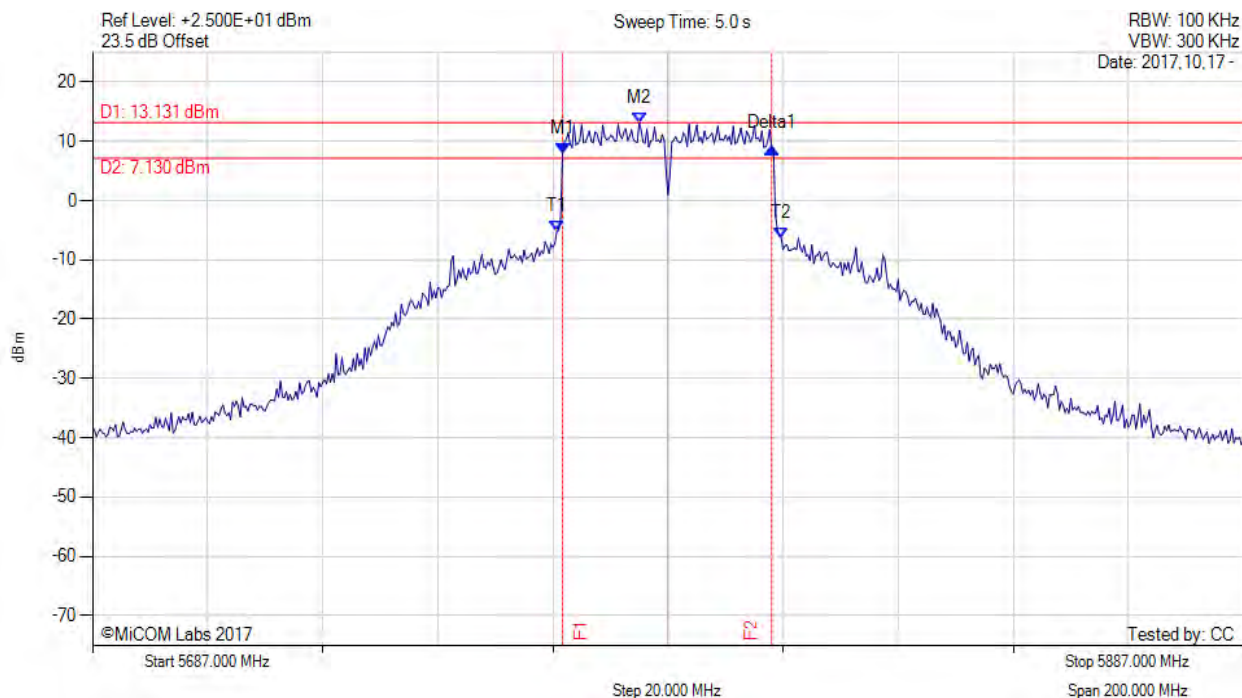
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6 dB & 99% BANDWIDTH

Variant: 40 MHz, Channel: 5787.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                                | Test Results                                                              |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5768.700 MHz : 7.919 dBm<br>M2 : 5782.000 MHz : 13.131 dBm<br>Delta1 : 36.300 MHz : 0.956 dB<br>T1 : 5767.667 MHz : -5.242 dBm<br>T2 : 5806.667 MHz : -6.278 dBm<br>OBW : 38.983 MHz | Measured 6 dB Bandwidth: 36.300 MHz<br>Measured 99% Bandwidth: 38.983 MHz |

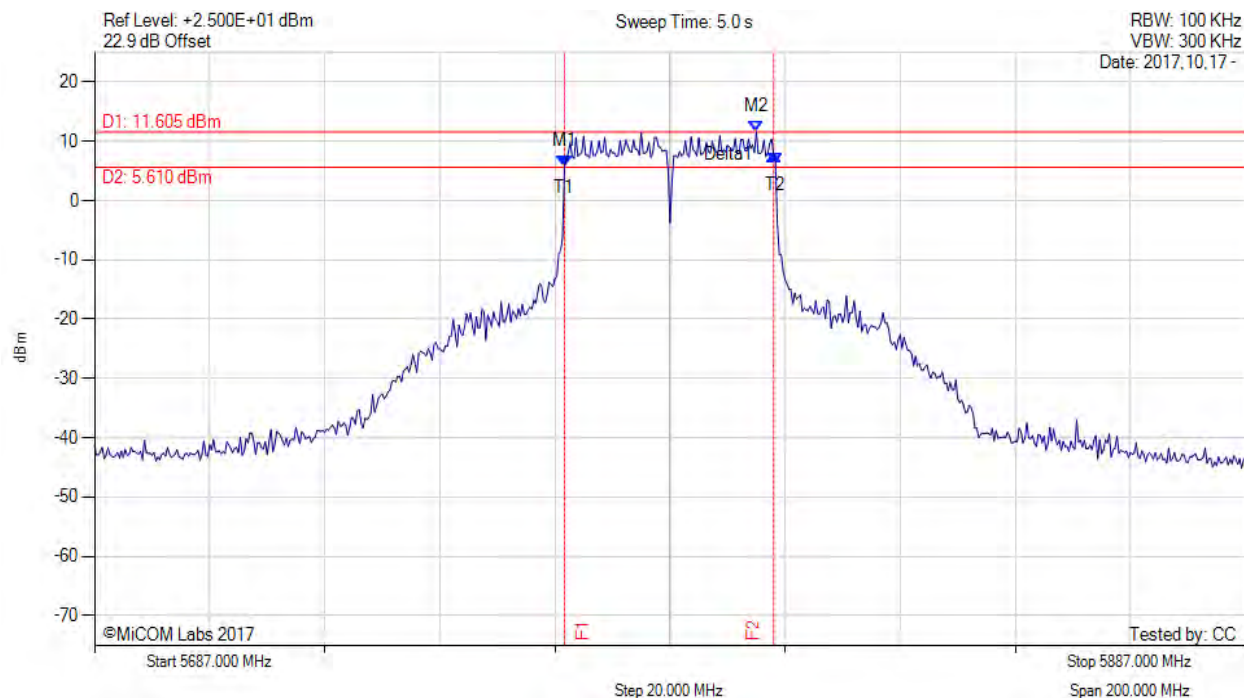
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6 dB & 99% BANDWIDTH

Variant: 40 MHz, Channel: 5787.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                              | Test Results                                                              |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5768.700 MHz : 5.843 dBm<br>M2 : 5802.000 MHz : 11.605 dBm<br>Delta1 : 36.300 MHz : 1.895 dB<br>T1 : 5768.667 MHz : 5.843 dBm<br>T2 : 5805.333 MHz : 6.304 dBm<br>OBW : 36.513 MHz | Measured 6 dB Bandwidth: 36.300 MHz<br>Measured 99% Bandwidth: 36.513 MHz |

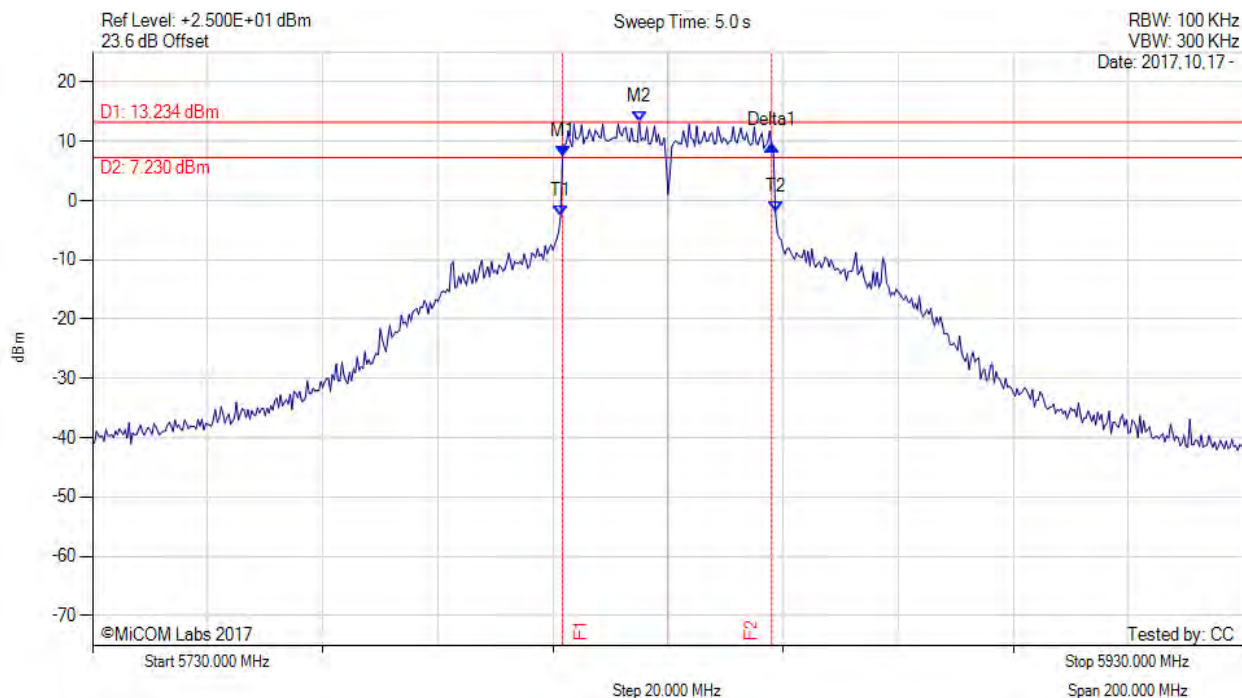
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6 dB & 99% BANDWIDTH

Variant: 40 MHz, Channel: 5830.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                                | Test Results                                                              |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5811.700 MHz : 7.453 dBm<br>M2 : 5825.000 MHz : 13.234 dBm<br>Delta1 : 36.300 MHz : 1.883 dB<br>T1 : 5811.333 MHz : -2.688 dBm<br>T2 : 5848.667 MHz : -1.927 dBm<br>OBW : 37.110 MHz | Measured 6 dB Bandwidth: 36.300 MHz<br>Measured 99% Bandwidth: 37.110 MHz |

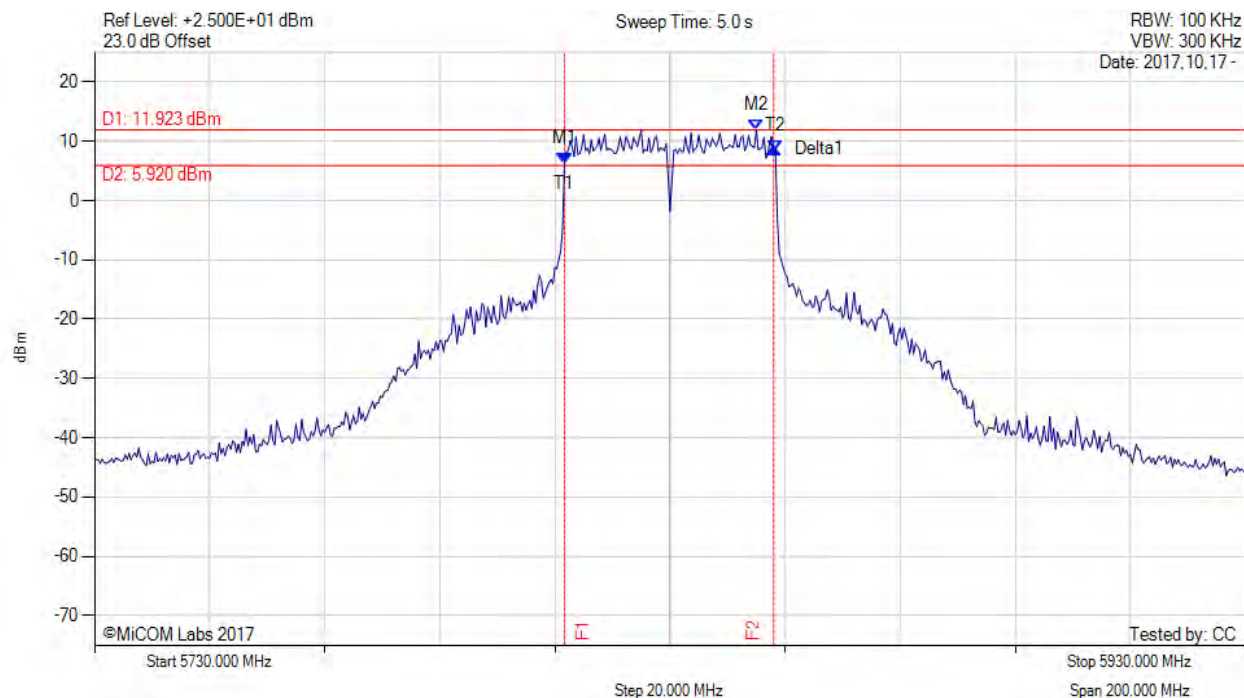
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6 dB & 99% BANDWIDTH

Variant: 40 MHz, Channel: 5830.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                              | Test Results                                                              |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5811.700 MHz : 6.315 dBm<br>M2 : 5845.000 MHz : 11.923 dBm<br>Delta1 : 36.300 MHz : 2.429 dB<br>T1 : 5811.667 MHz : 6.315 dBm<br>T2 : 5848.333 MHz : 8.372 dBm<br>OBW : 36.572 MHz | Measured 6 dB Bandwidth: 36.300 MHz<br>Measured 99% Bandwidth: 36.572 MHz |

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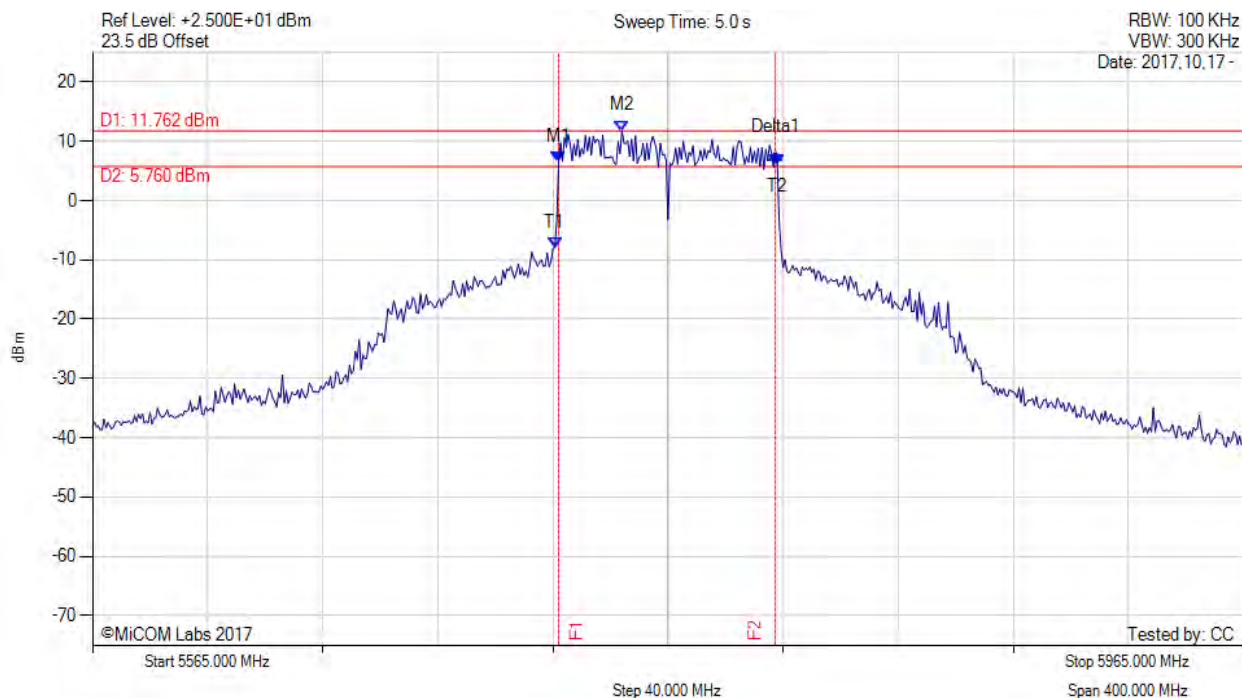
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6 dB & 99% BANDWIDTH

Variant: 80 MHz, Channel: 5765.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                               | Test Results                                                              |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5727.000 MHz : 6.539 dBm<br>M2 : 5749.000 MHz : 11.762 dBm<br>Delta1 : 75.300 MHz : 1.485 dB<br>T1 : 5725.667 MHz : -7.959 dBm<br>T2 : 5803.000 MHz : 6.048 dBm<br>OBW : 77.505 MHz | Measured 6 dB Bandwidth: 75.300 MHz<br>Measured 99% Bandwidth: 77.505 MHz |

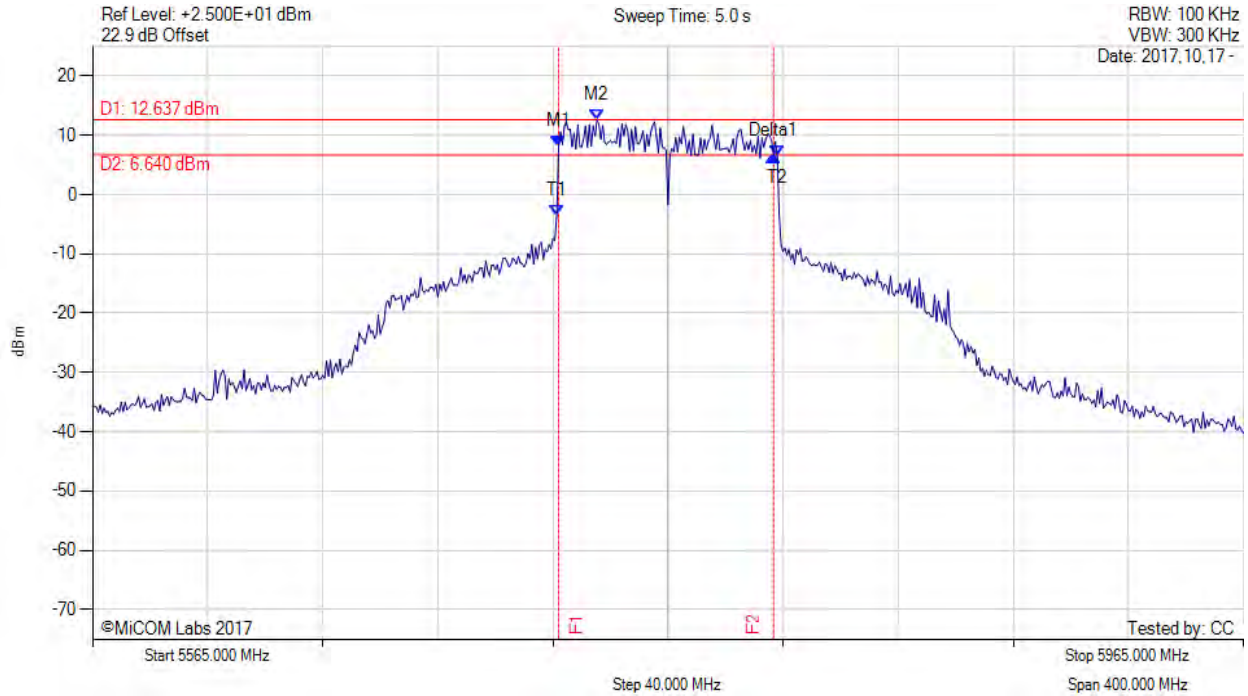
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6 dB & 99% BANDWIDTH

Variant: 80 MHz, Channel: 5765.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                                | Test Results                                                              |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5727.000 MHz : 8.064 dBm<br>M2 : 5740.300 MHz : 12.637 dBm<br>Delta1 : 74.700 MHz : -1.492 dB<br>T1 : 5726.333 MHz : -3.589 dBm<br>T2 : 5803.000 MHz : 6.428 dBm<br>OBW : 77.082 MHz | Measured 6 dB Bandwidth: 74.700 MHz<br>Measured 99% Bandwidth: 77.082 MHz |

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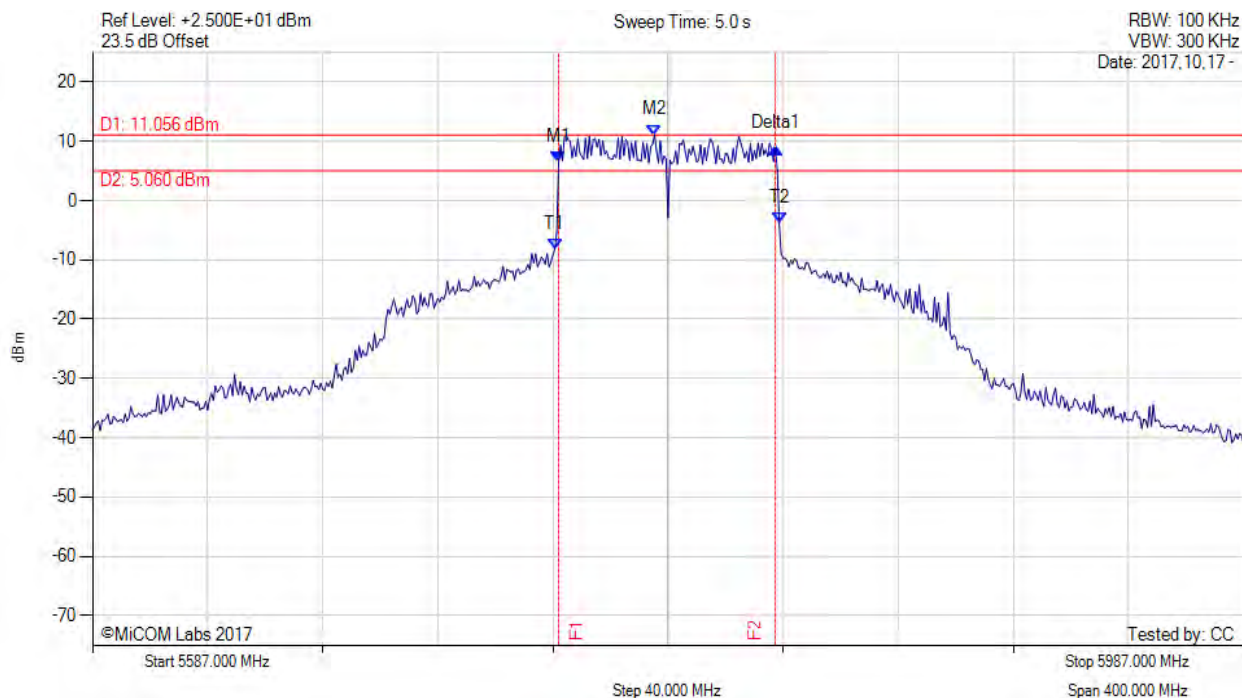
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6 dB & 99% BANDWIDTH

Variant: 80 MHz, Channel: 5787.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                                | Test Results                                                              |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5749.000 MHz : 6.495 dBm<br>M2 : 5782.300 MHz : 11.056 dBm<br>Delta1 : 75.300 MHz : 2.295 dB<br>T1 : 5747.667 MHz : -8.261 dBm<br>T2 : 5825.667 MHz : -3.815 dBm<br>OBW : 77.981 MHz | Measured 6 dB Bandwidth: 75.300 MHz<br>Measured 99% Bandwidth: 77.981 MHz |

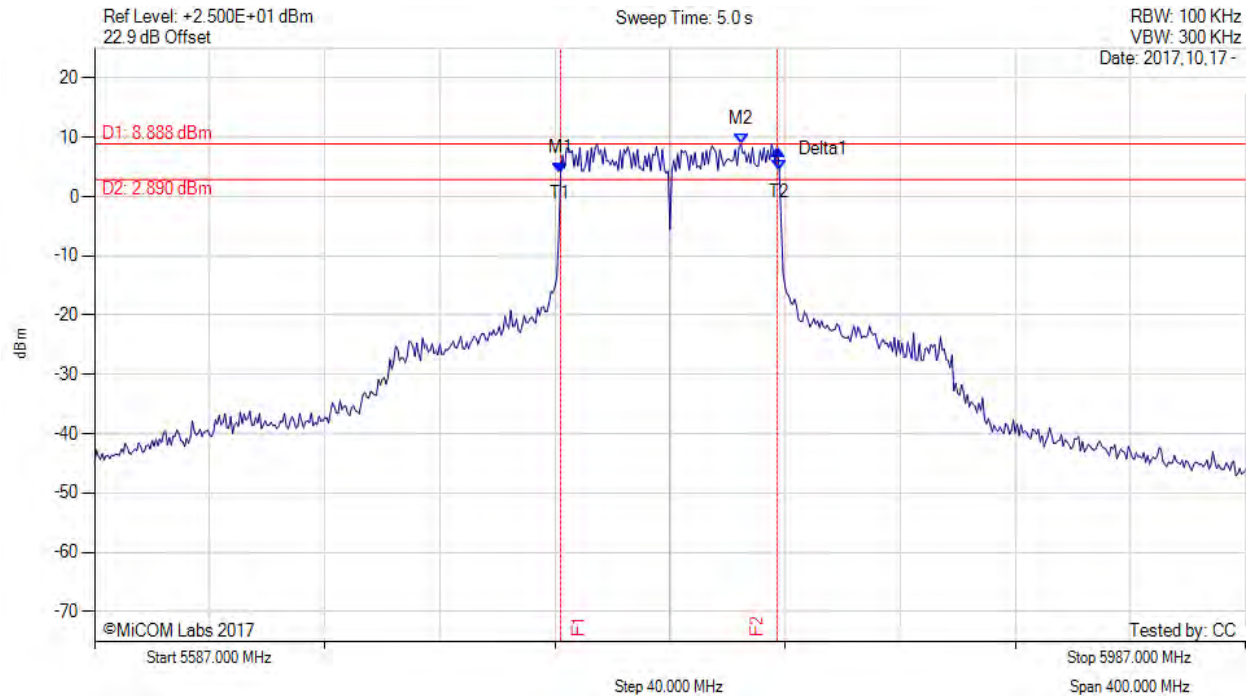
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6 dB & 99% BANDWIDTH

Variant: 80 MHz, Channel: 5787.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                             | Test Results                                                              |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5749.000 MHz : 3.989 dBm<br>M2 : 5811.700 MHz : 8.888 dBm<br>Delta1 : 75.300 MHz : 4.032 dB<br>T1 : 5749.000 MHz : 3.989 dBm<br>T2 : 5825.000 MHz : 4.367 dBm<br>OBW : 75.627 MHz | Measured 6 dB Bandwidth: 75.300 MHz<br>Measured 99% Bandwidth: 75.627 MHz |

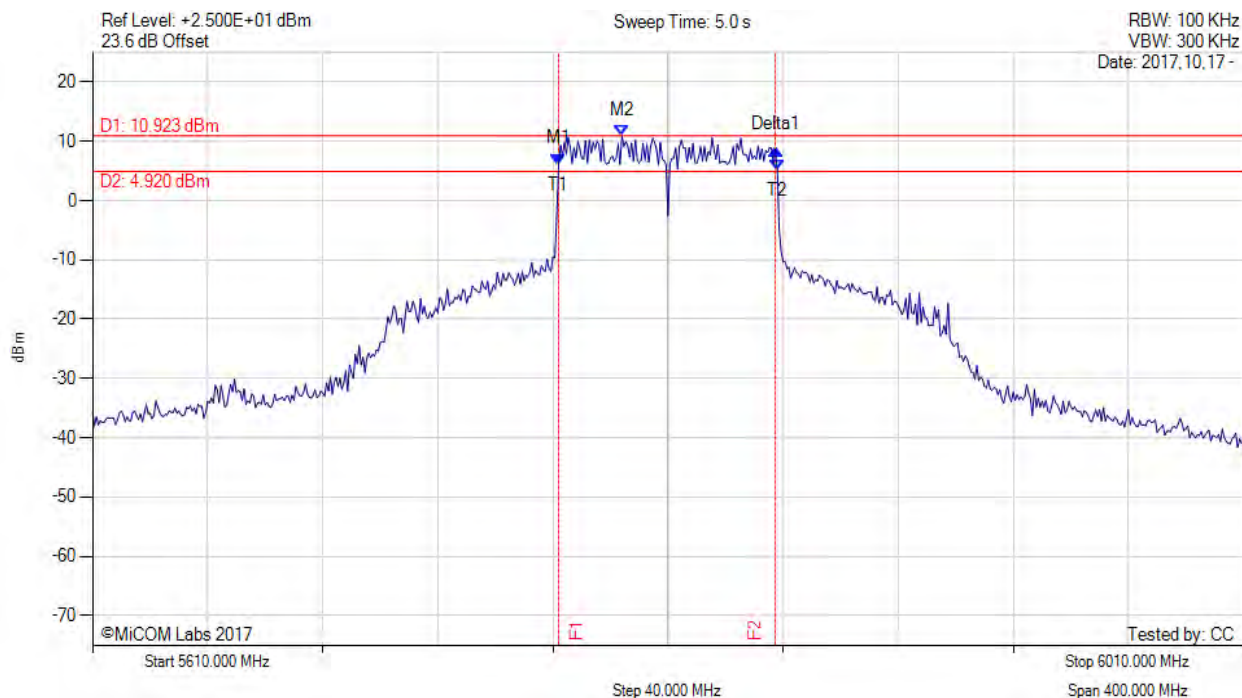
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6 dB & 99% BANDWIDTH

Variant: 80 MHz, Channel: 5810.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                              | Test Results                                                              |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5772.000 MHz : 6.168 dBm<br>M2 : 5794.000 MHz : 10.923 dBm<br>Delta1 : 75.300 MHz : 2.412 dB<br>T1 : 5772.000 MHz : 6.168 dBm<br>T2 : 5848.000 MHz : 5.221 dBm<br>OBW : 76.428 MHz | Measured 6 dB Bandwidth: 75.300 MHz<br>Measured 99% Bandwidth: 76.428 MHz |

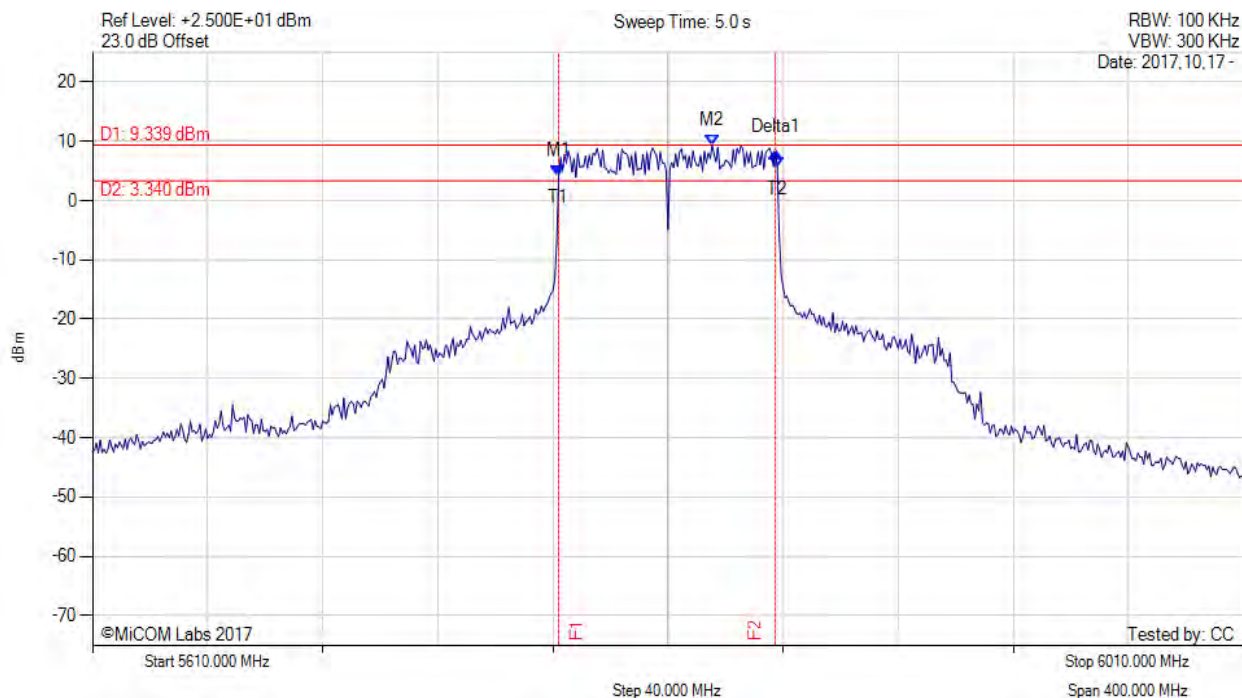
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6 dB & 99% BANDWIDTH

Variant: 80 MHz, Channel: 5810.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc

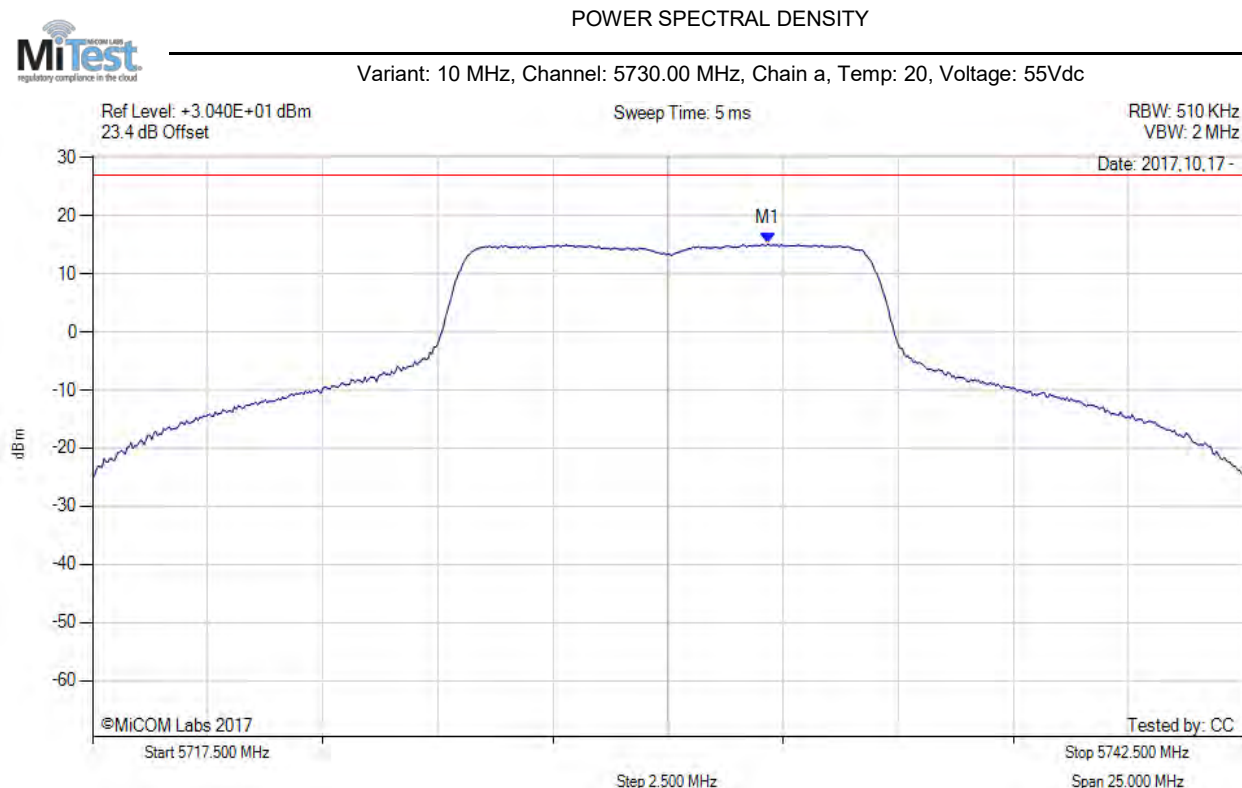


| Analyzer Setup                                                               | Marker:Frequency:Amplitude                                                                                                                                                             | Test Results                                                              |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Detector = POS<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAXH | M1 : 5772.000 MHz : 4.112 dBm<br>M2 : 5825.300 MHz : 9.339 dBm<br>Delta1 : 75.300 MHz : 4.028 dB<br>T1 : 5772.000 MHz : 4.112 dBm<br>T2 : 5848.000 MHz : 5.516 dBm<br>OBW : 75.667 MHz | Measured 6 dB Bandwidth: 75.300 MHz<br>Measured 99% Bandwidth: 75.667 MHz |

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## A.2. Power Spectral Density



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results        |
|----------------------------------------------------------------------------------|--------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5732.170 MHz : 15.151 dBm | Limit: ≤ 26.990 dBm |

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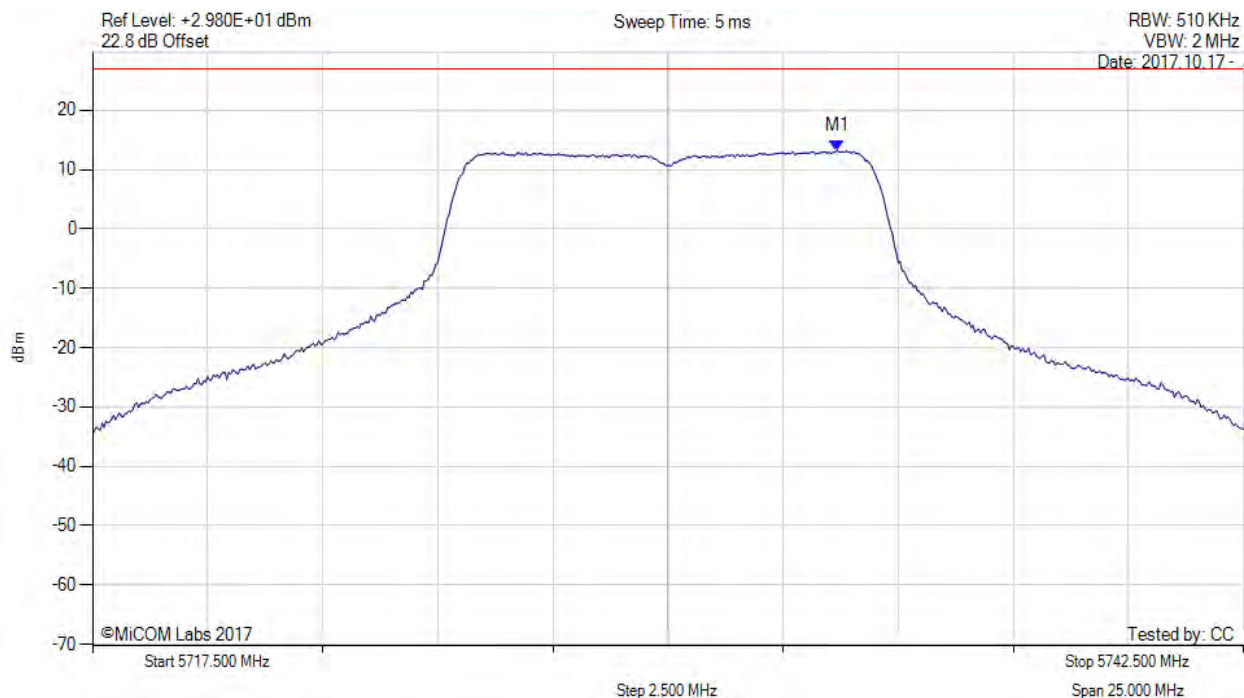


**Title:** Radwin Ltd. AP0158770  
**To:** FCC CFR 47 15.407 & ISED RSS-247  
**Serial #:** RDWN48-U4\_Conducted Rev A  
**Issue Date:** 20<sup>th</sup> November 2017  
**Page:** 46 of 81



#### POWER SPECTRAL DENSITY

Variant: 10 MHz, Channel: 5730.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results        |
|----------------------------------------------------------------------------------|--------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5733.670 MHz : 13.222 dBm | Limit: ≤ 26.990 dBm |

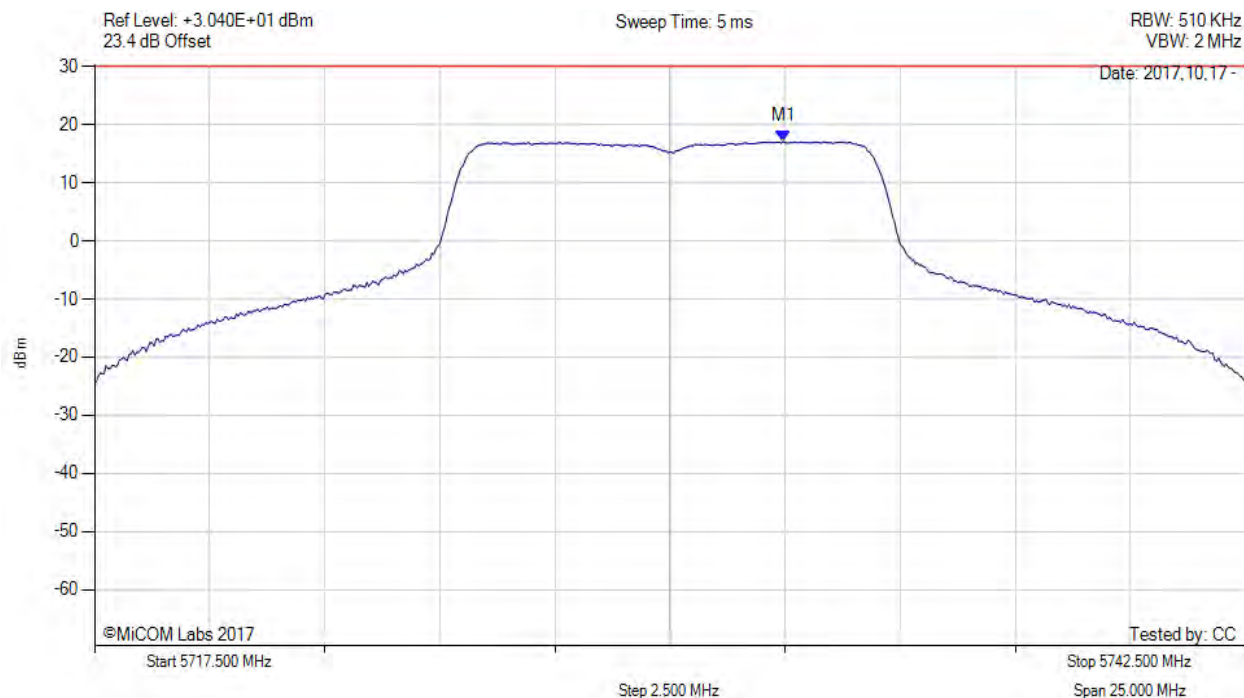
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# POWER SPECTRAL DENSITY

Variant: 10 MHz, Channel: 5730.00 MHz, SUM, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                      | Test Results                          |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5732.500 MHz : 17.107 dBm<br>M1 + DCCF : 5732.500 MHz : 17.107 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: ≤ 30.0 dBm<br>Margin: -12.9 dB |

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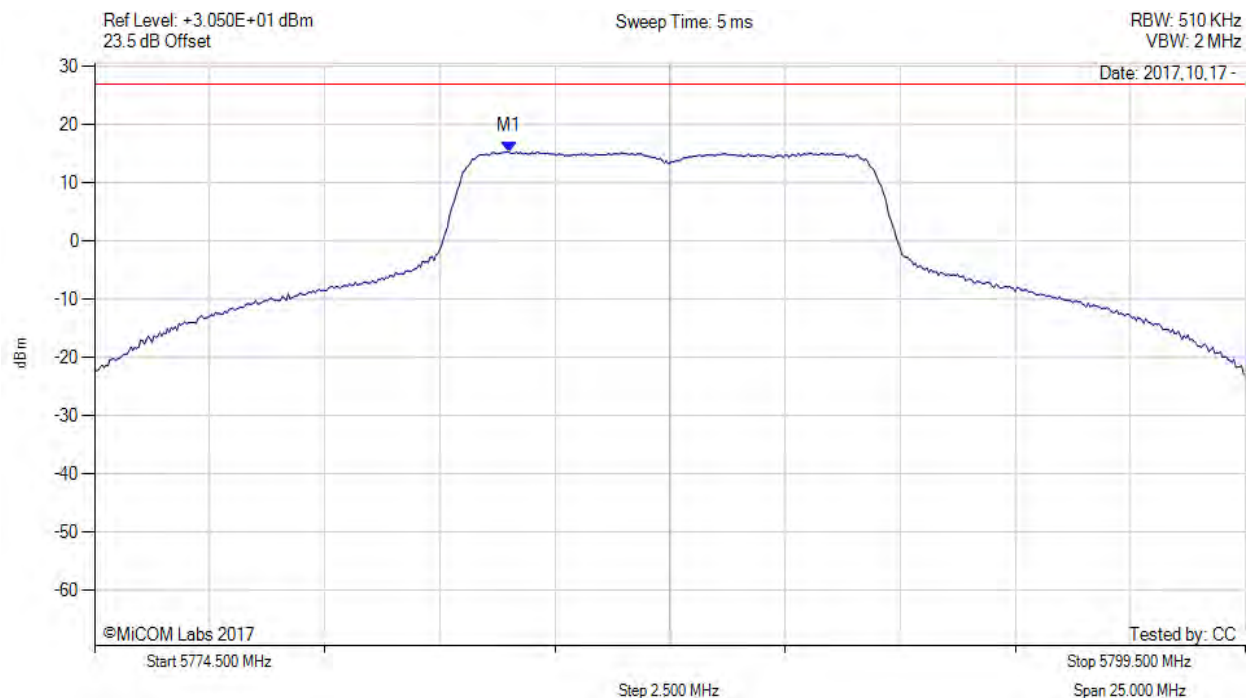


**Title:** Radwin Ltd. AP0158770  
**To:** FCC CFR 47 15.407 & ISED RSS-247  
**Serial #:** RDWN48-U4\_Conducted Rev A  
**Issue Date:** 20<sup>th</sup> November 2017  
**Page:** 48 of 81



#### POWER SPECTRAL DENSITY

Variant: 10 MHz, Channel: 5787.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results        |
|----------------------------------------------------------------------------------|--------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5783.500 MHz : 15.382 dBm | Limit: ≤ 26.990 dBm |

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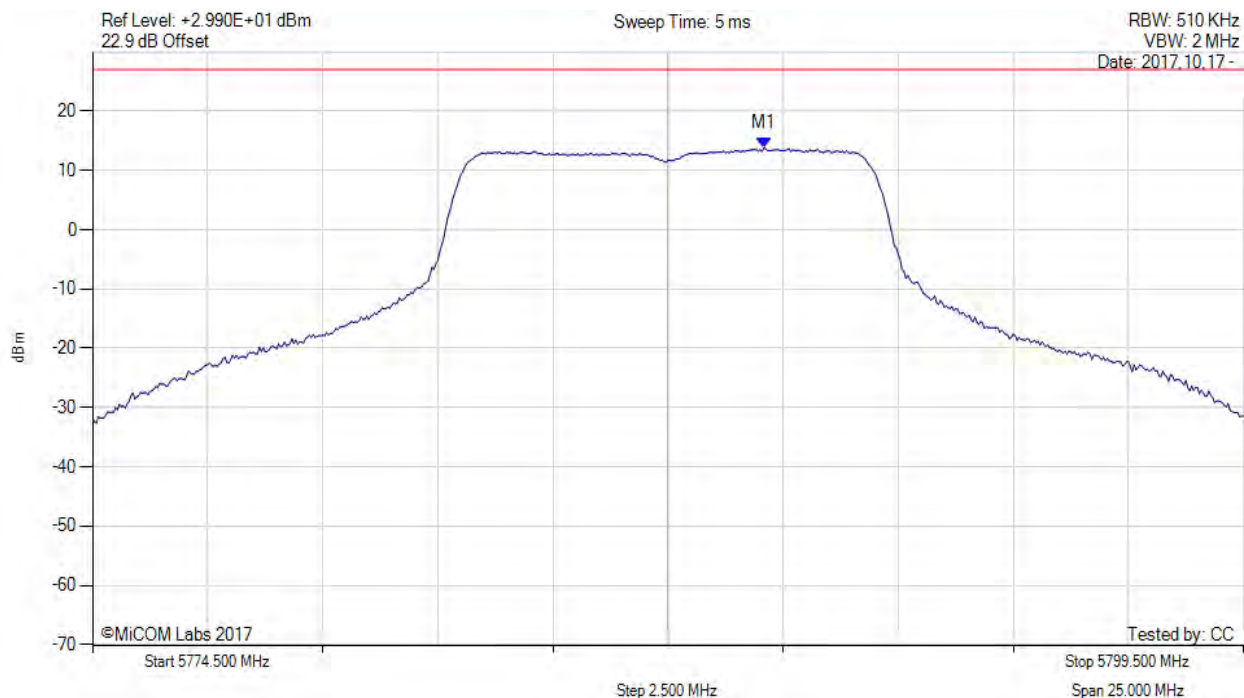


**Title:** Radwin Ltd. AP0158770  
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#### POWER SPECTRAL DENSITY

Variant: 10 MHz, Channel: 5787.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results                   |
|----------------------------------------------------------------------------------|--------------------------------|--------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5789.080 MHz : 13.766 dBm | Channel Frequency: 5787.00 MHz |

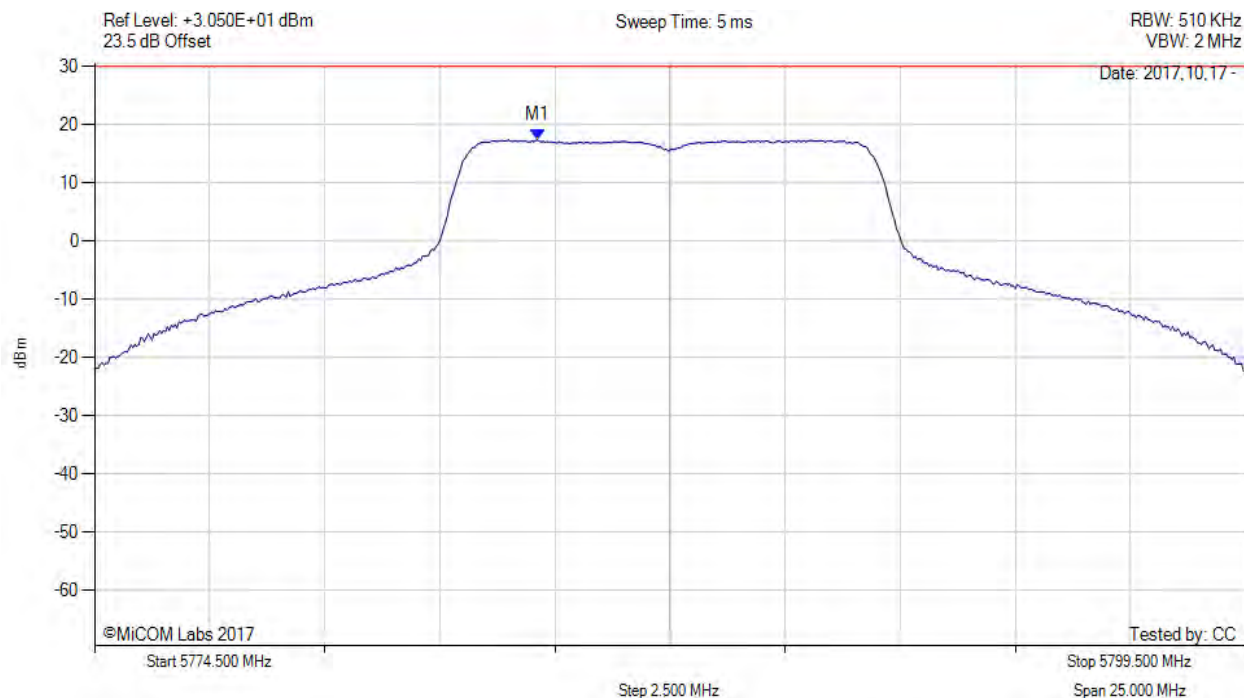
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# POWER SPECTRAL DENSITY

Variant: 10 MHz, Channel: 5787.00 MHz, SUM, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                      | Test Results                          |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5784.100 MHz : 17.397 dBm<br>M1 + DCCF : 5784.100 MHz : 17.397 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: ≤ 30.0 dBm<br>Margin: -12.6 dB |

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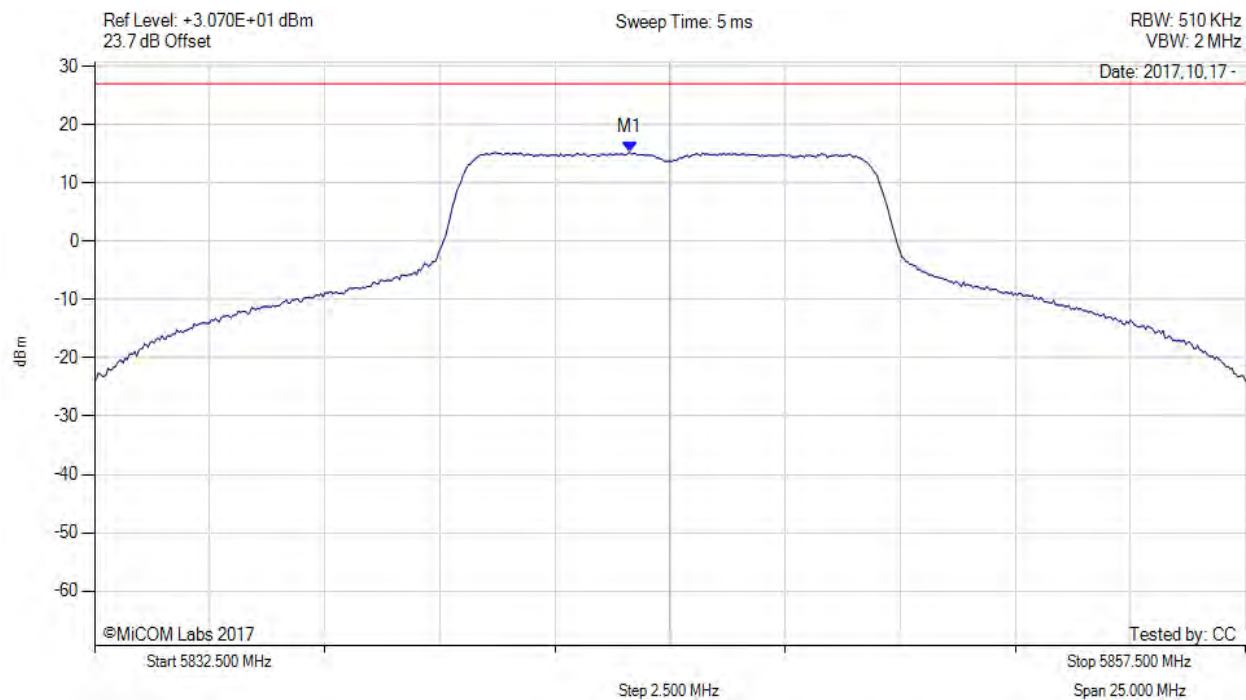


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#### POWER SPECTRAL DENSITY

Variant: 10 MHz, Channel: 5845.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results        |
|----------------------------------------------------------------------------------|--------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5844.120 MHz : 15.323 dBm | Limit: ≤ 26.990 dBm |

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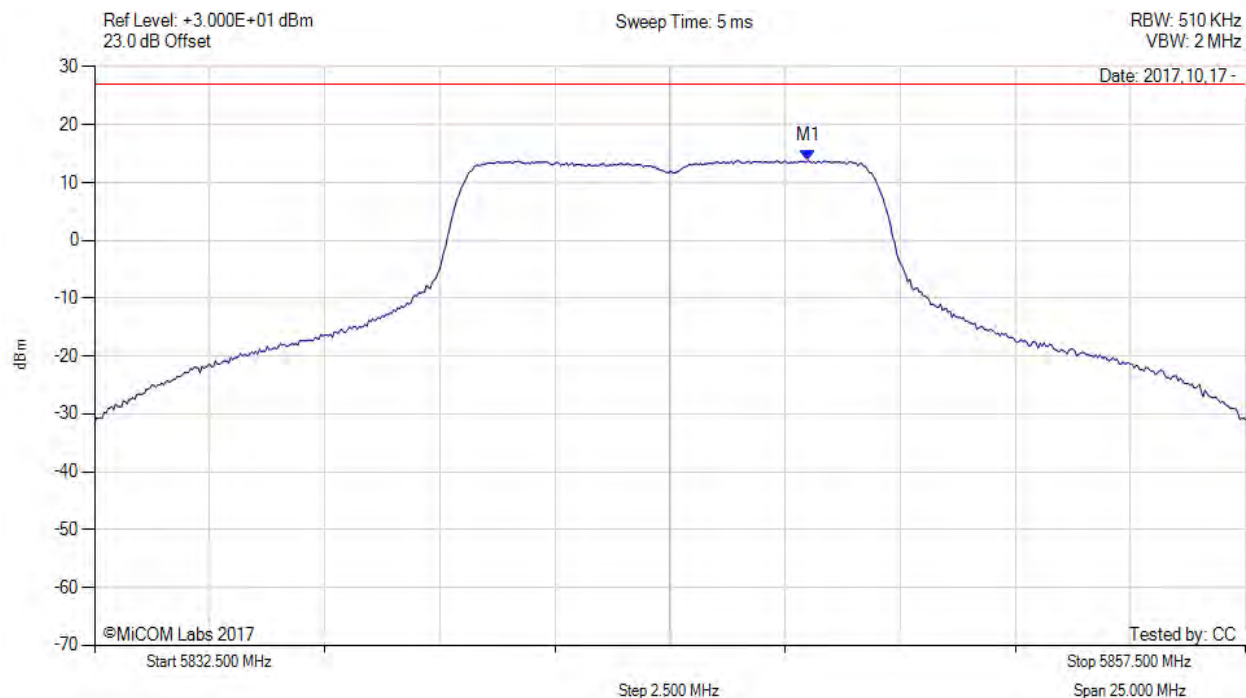


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#### POWER SPECTRAL DENSITY

Variant: 10 MHz, Channel: 5845.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results        |
|----------------------------------------------------------------------------------|--------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5848.000 MHz : 13.796 dBm | Limit: ≤ 26.990 dBm |

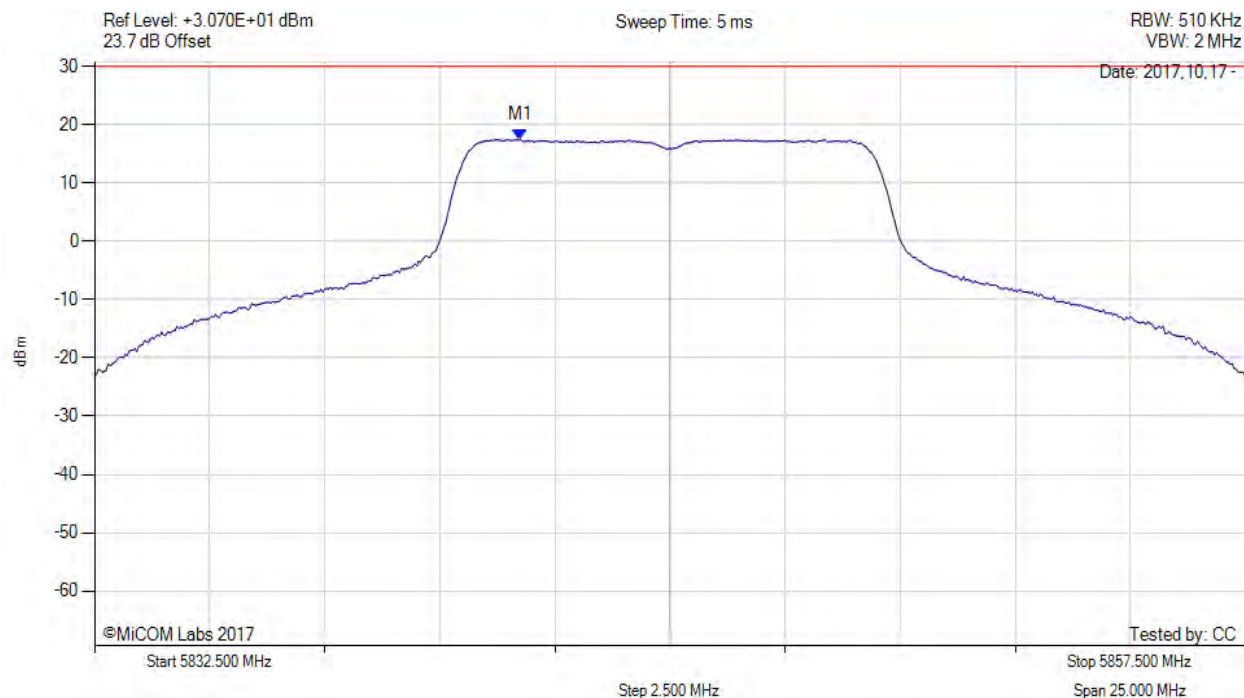
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# POWER SPECTRAL DENSITY

Variant: 10 MHz, Channel: 5845.00 MHz, SUM, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                      | Test Results                          |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5841.800 MHz : 17.445 dBm<br>M1 + DCCF : 5841.800 MHz : 17.445 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: ≤ 30.0 dBm<br>Margin: -12.6 dB |

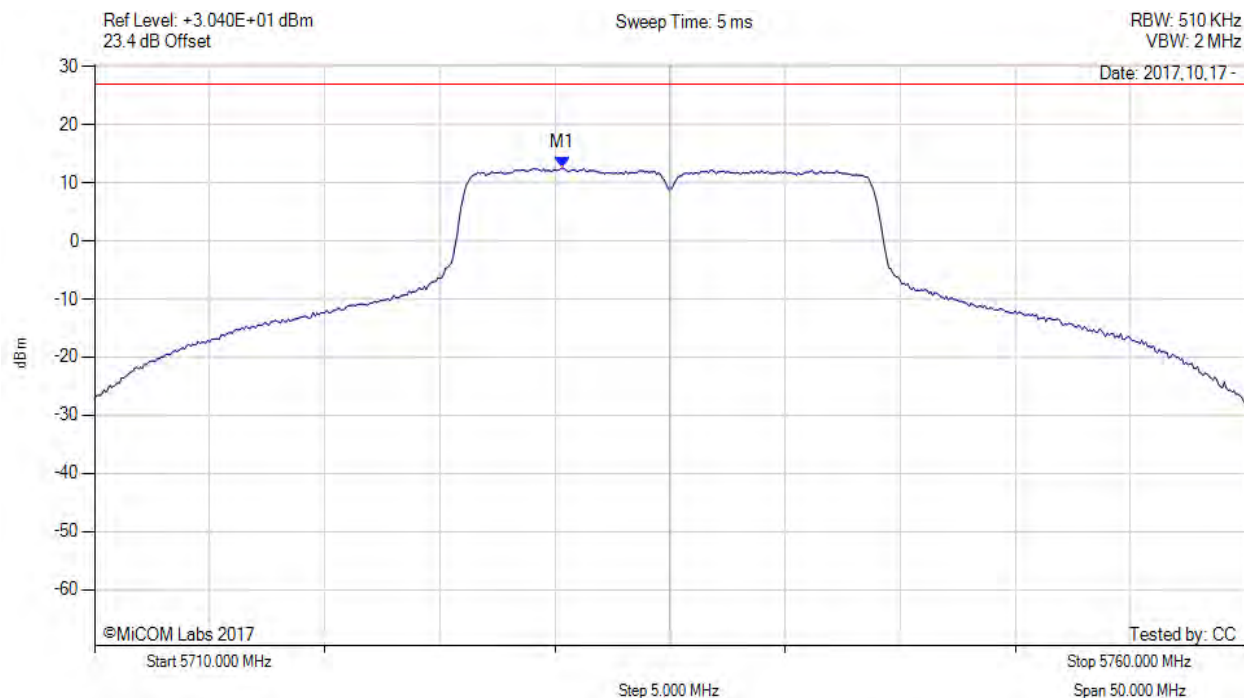
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# POWER SPECTRAL DENSITY

Variant: 20 MHz, Channel: 5735.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results        |
|----------------------------------------------------------------------------------|--------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5730.330 MHz : 12.578 dBm | Limit: ≤ 26.990 dBm |

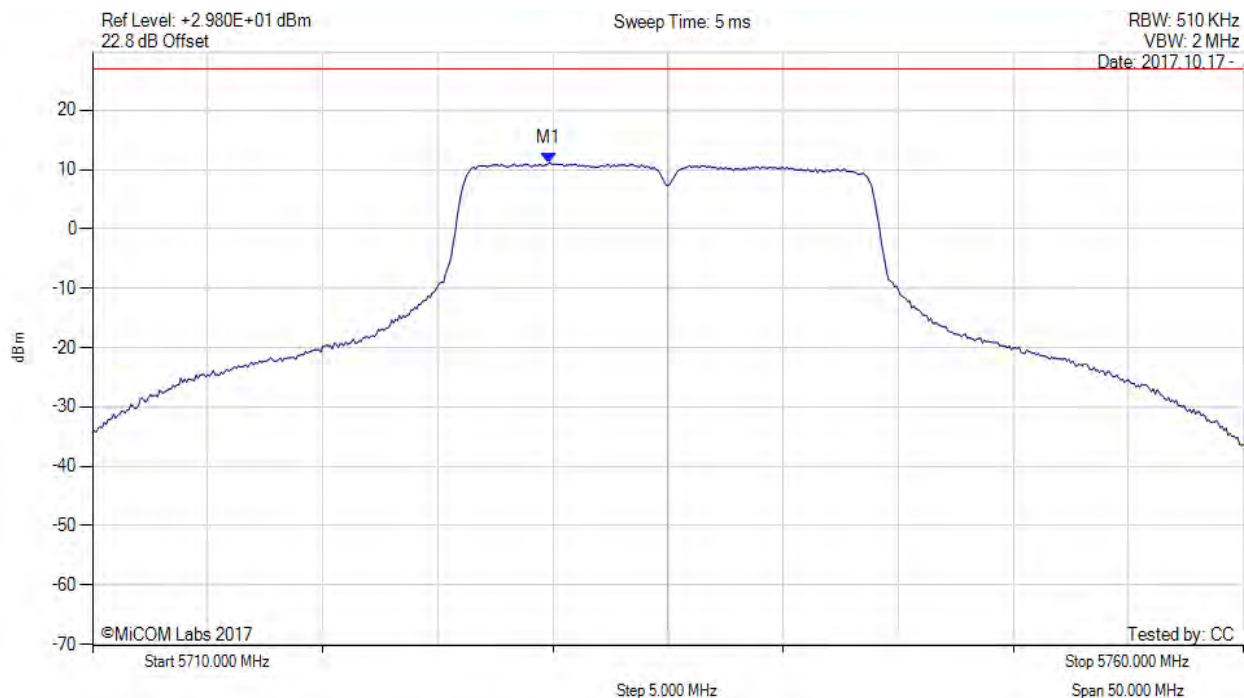
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# POWER SPECTRAL DENSITY

Variant: 20 MHz, Channel: 5735.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results        |
|----------------------------------------------------------------------------------|--------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5729.830 MHz : 11.142 dBm | Limit: ≤ 26.990 dBm |

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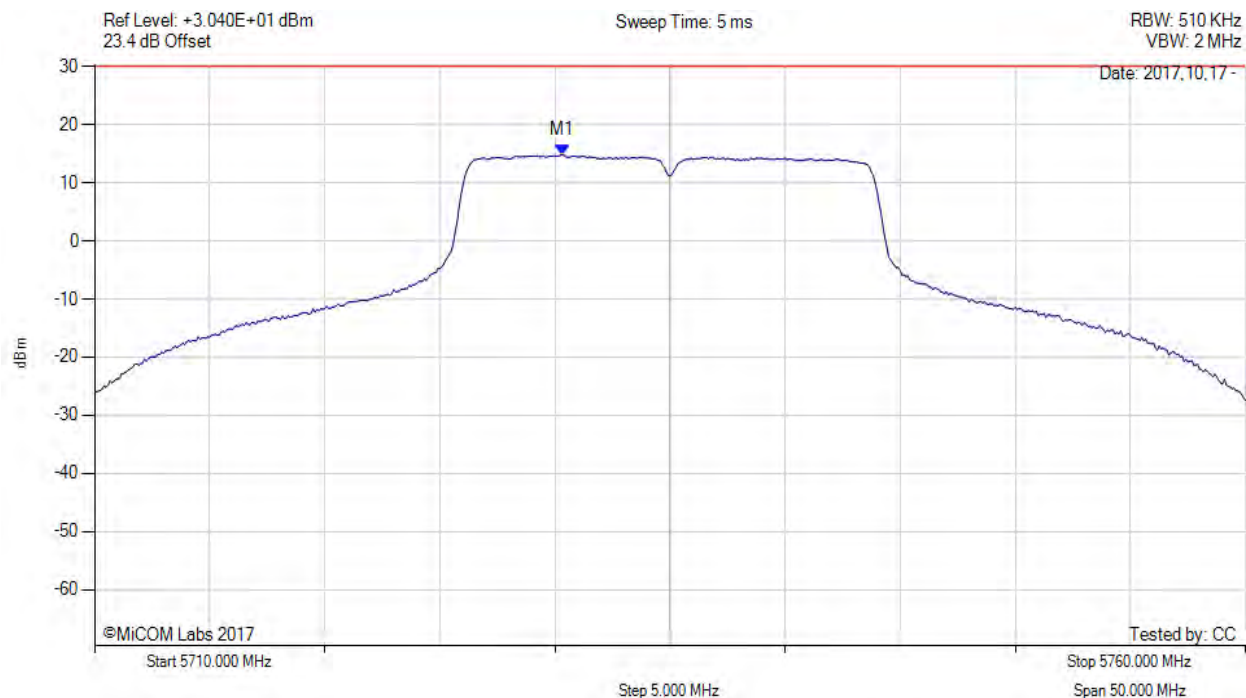


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#### POWER SPECTRAL DENSITY

Variant: 20 MHz, Channel: 5735.00 MHz, SUM, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                      | Test Results                               |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5730.300 MHz : 14.831 dBm<br>M1 + DCCF : 5730.300 MHz : 14.831 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: $\leq 30.0$ dBm<br>Margin: -15.2 dB |

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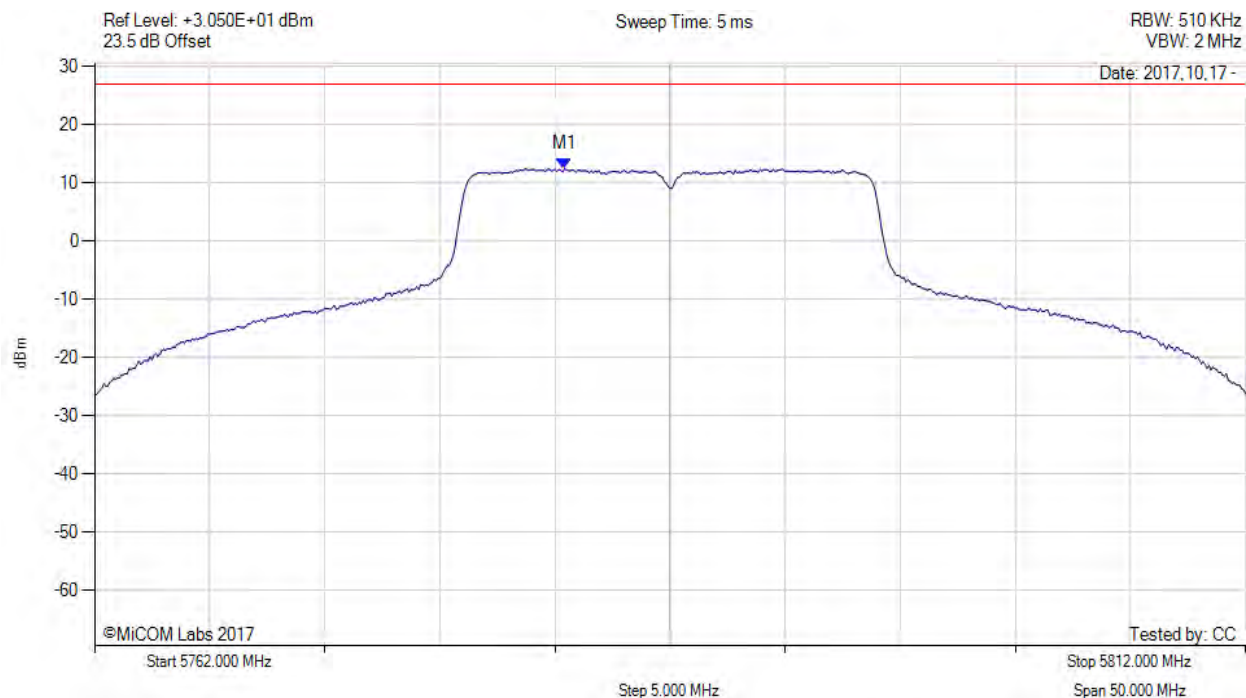


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#### POWER SPECTRAL DENSITY

Variant: 20 MHz, Channel: 5787.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results        |
|----------------------------------------------------------------------------------|--------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5782.420 MHz : 12.403 dBm | Limit: ≤ 26.990 dBm |

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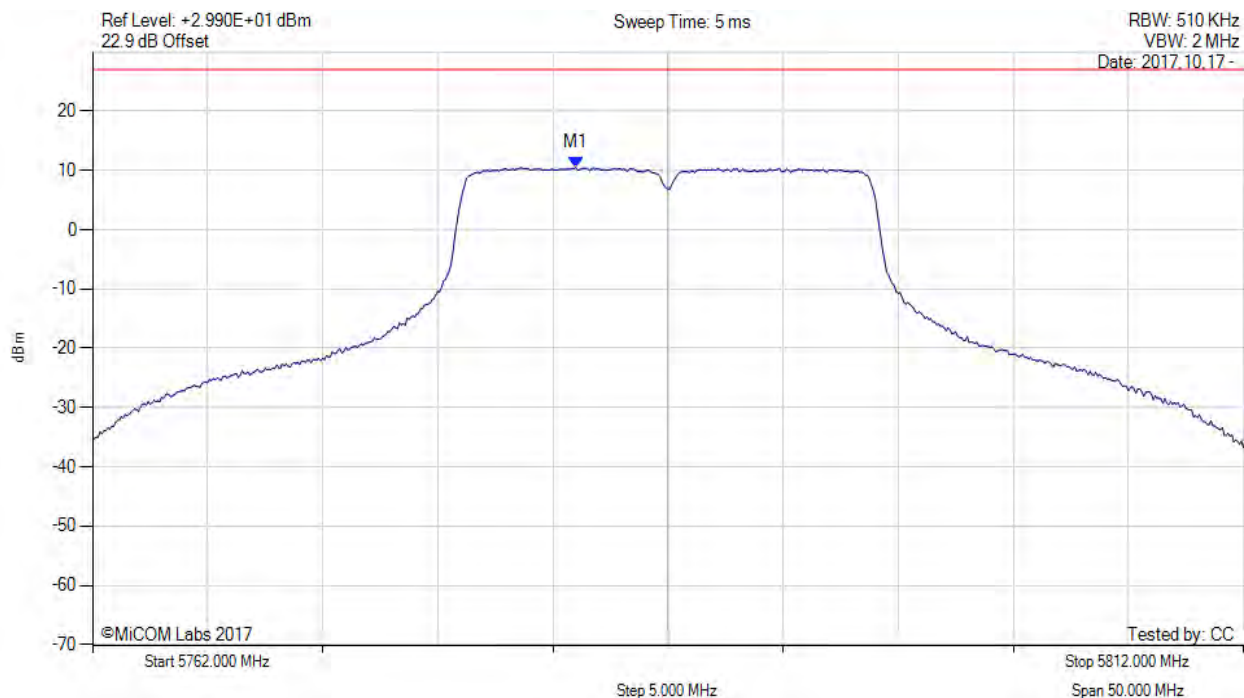


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#### POWER SPECTRAL DENSITY

Variant: 20 MHz, Channel: 5787.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results                   |
|----------------------------------------------------------------------------------|--------------------------------|--------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5783.000 MHz : 10.473 dBm | Channel Frequency: 5787.00 MHz |

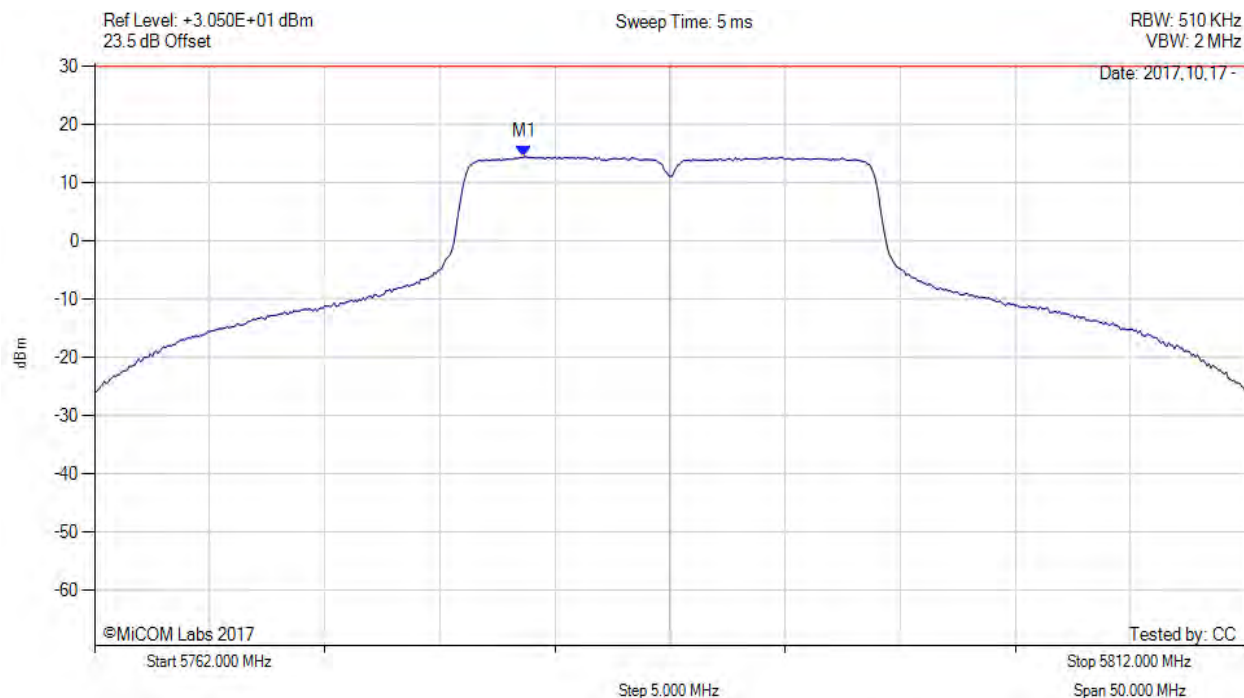
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# POWER SPECTRAL DENSITY

Variant: 20 MHz, Channel: 5787.00 MHz, SUM, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                      | Test Results                          |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5780.700 MHz : 14.495 dBm<br>M1 + DCCF : 5780.700 MHz : 14.495 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: ≤ 30.0 dBm<br>Margin: -15.5 dB |

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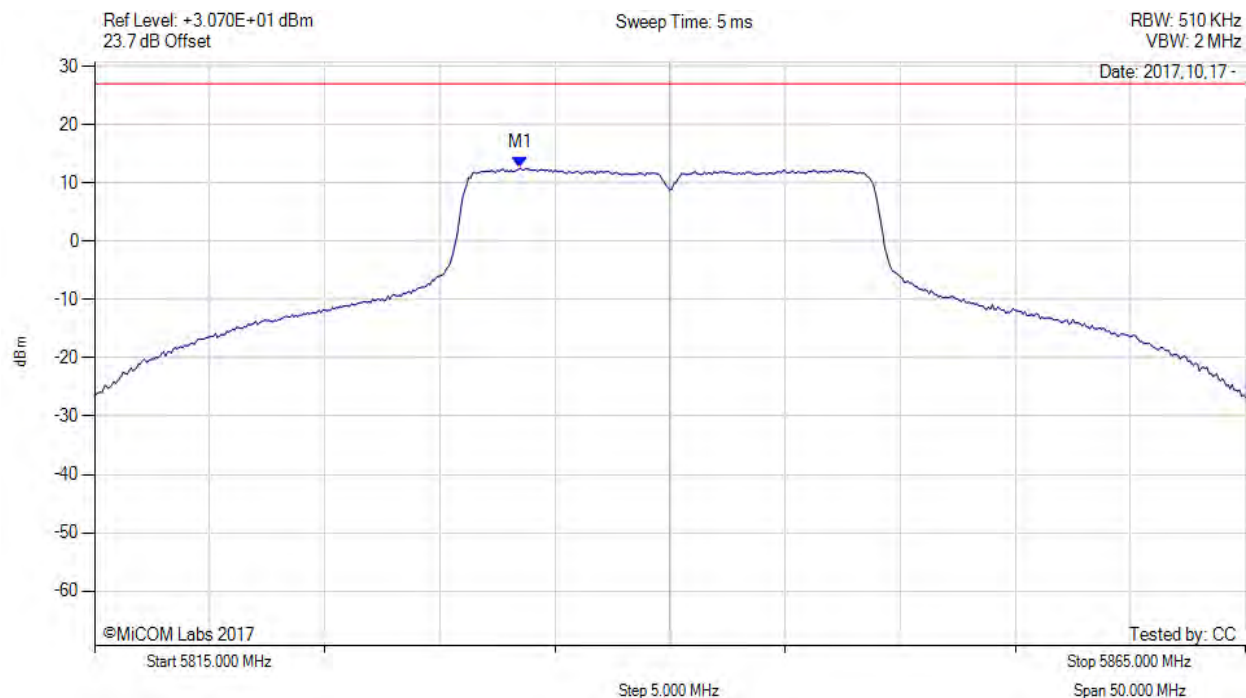


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#### POWER SPECTRAL DENSITY

Variant: 20 MHz, Channel: 5840.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results        |
|----------------------------------------------------------------------------------|--------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5833.500 MHz : 12.571 dBm | Limit: ≤ 26.990 dBm |

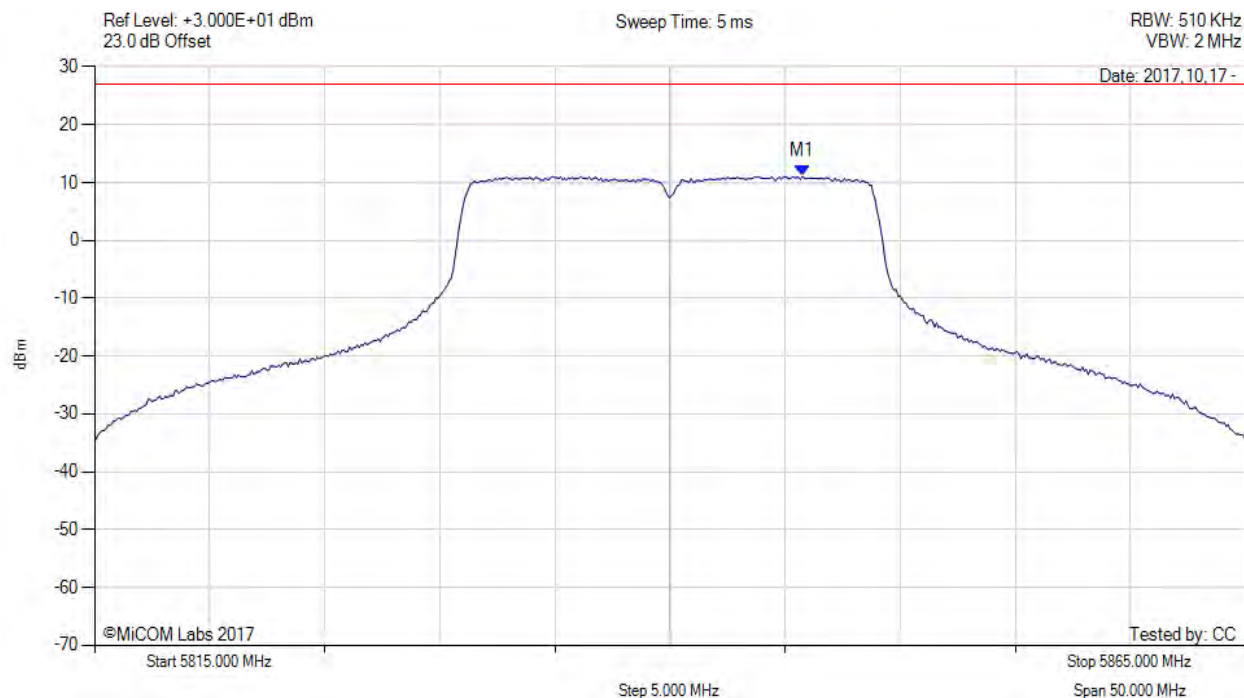
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# POWER SPECTRAL DENSITY

Variant: 20 MHz, Channel: 5840.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude     | Test Results        |
|----------------------------------------------------------------------------------|--------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5845.750 MHz : 11.065 dBm | Limit: ≤ 26.990 dBm |

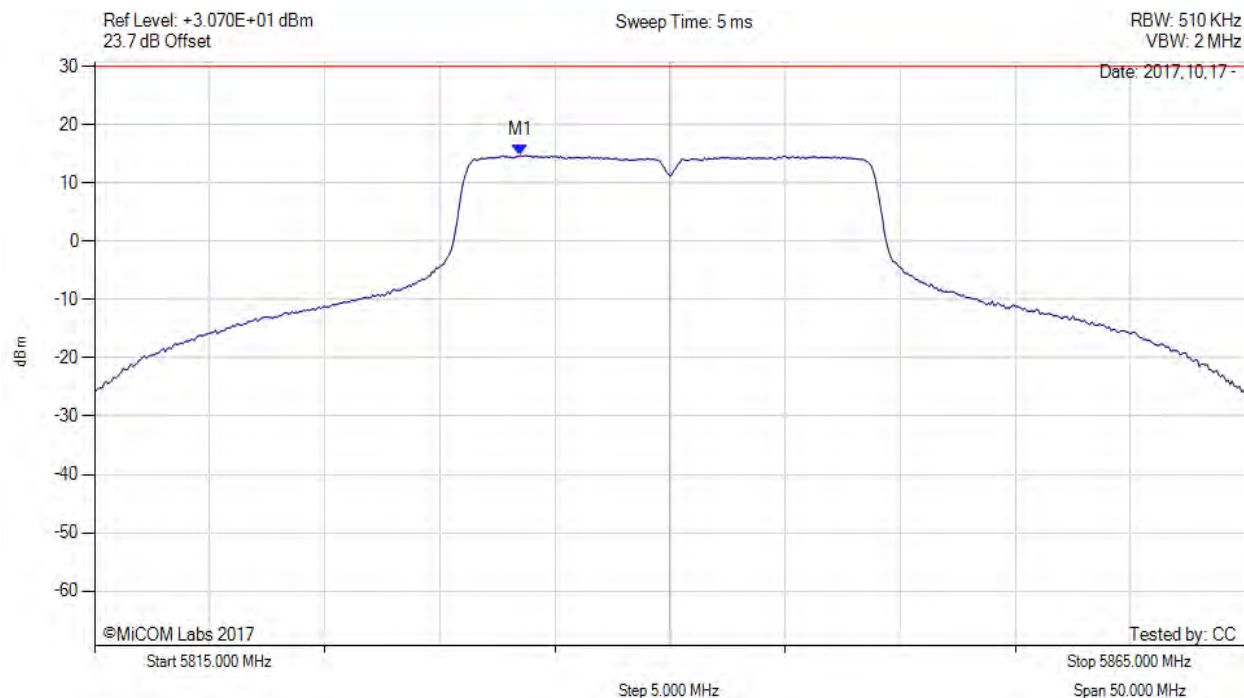
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# POWER SPECTRAL DENSITY

Variant: 20 MHz, Channel: 5840.00 MHz, SUM, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                      | Test Results                          |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5833.500 MHz : 14.714 dBm<br>M1 + DCCF : 5833.500 MHz : 14.714 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: ≤ 30.0 dBm<br>Margin: -15.3 dB |

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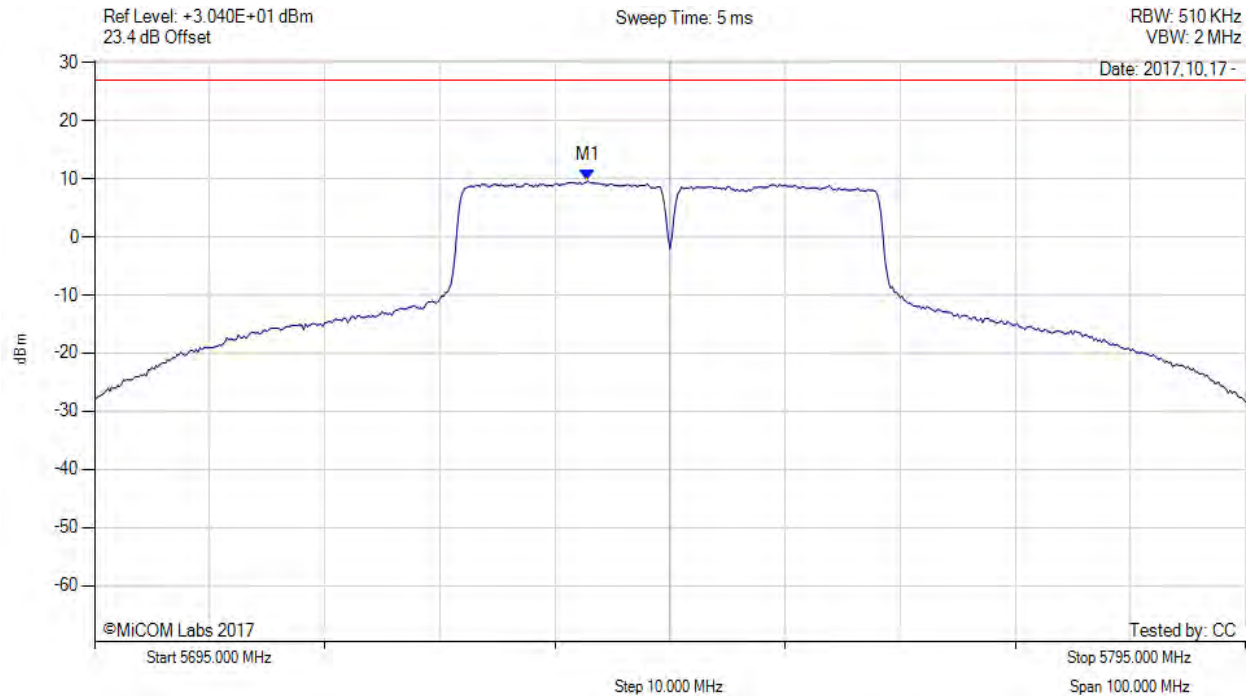


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#### POWER SPECTRAL DENSITY

Variant: 40 MHz, Channel: 5745.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results        |
|----------------------------------------------------------------------------------|-------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5737.830 MHz : 9.683 dBm | Limit: ≤ 26.990 dBm |

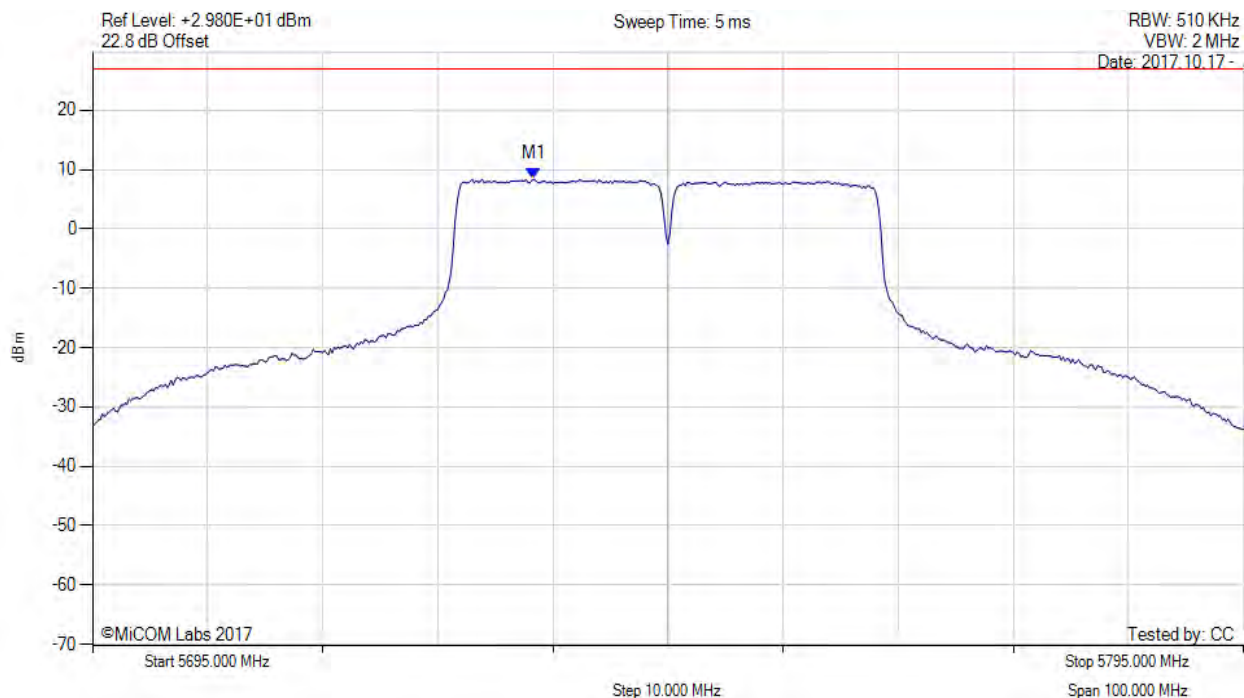
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# POWER SPECTRAL DENSITY

Variant: 40 MHz, Channel: 5745.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results        |
|----------------------------------------------------------------------------------|-------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5733.330 MHz : 8.410 dBm | Limit: ≤ 26.990 dBm |

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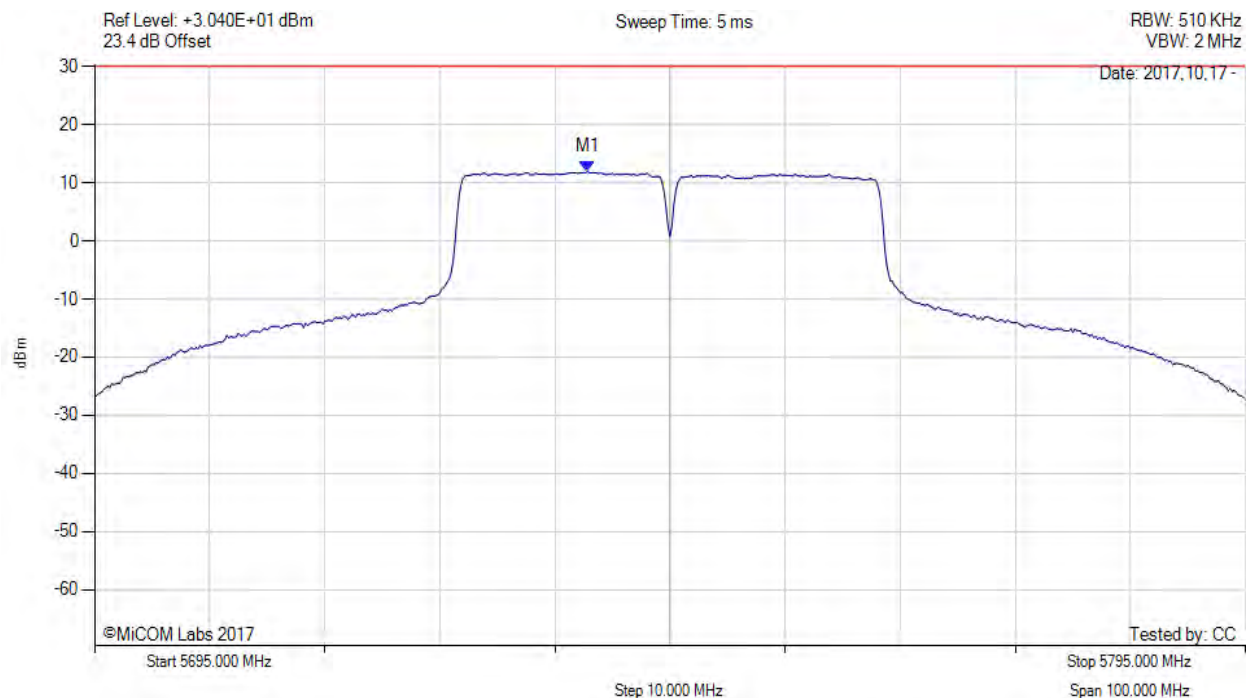
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# POWER SPECTRAL DENSITY

Variant: 40 MHz, Channel: 5745.00 MHz, SUM, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                      | Test Results                          |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5737.800 MHz : 11.952 dBm<br>M1 + DCCF : 5737.800 MHz : 11.952 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: ≤ 30.0 dBm<br>Margin: -18.1 dB |

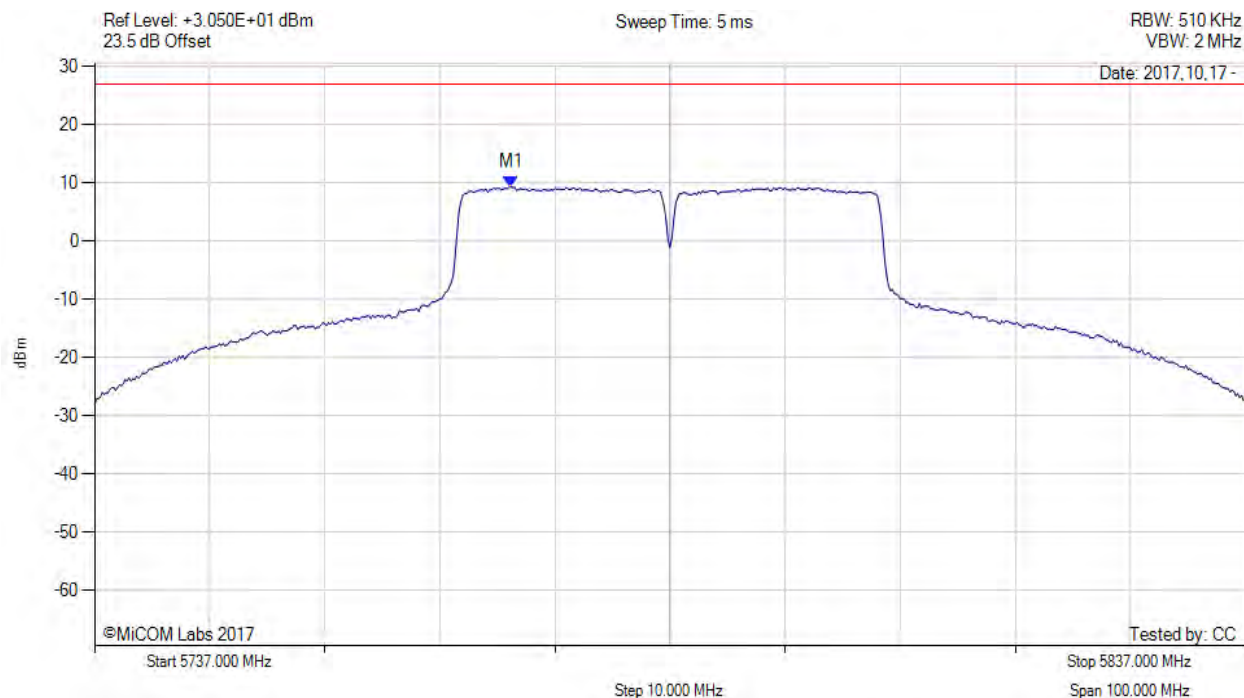
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# POWER SPECTRAL DENSITY

Variant: 40 MHz, Channel: 5787.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results        |
|----------------------------------------------------------------------------------|-------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5773.170 MHz : 9.310 dBm | Limit: ≤ 26.990 dBm |

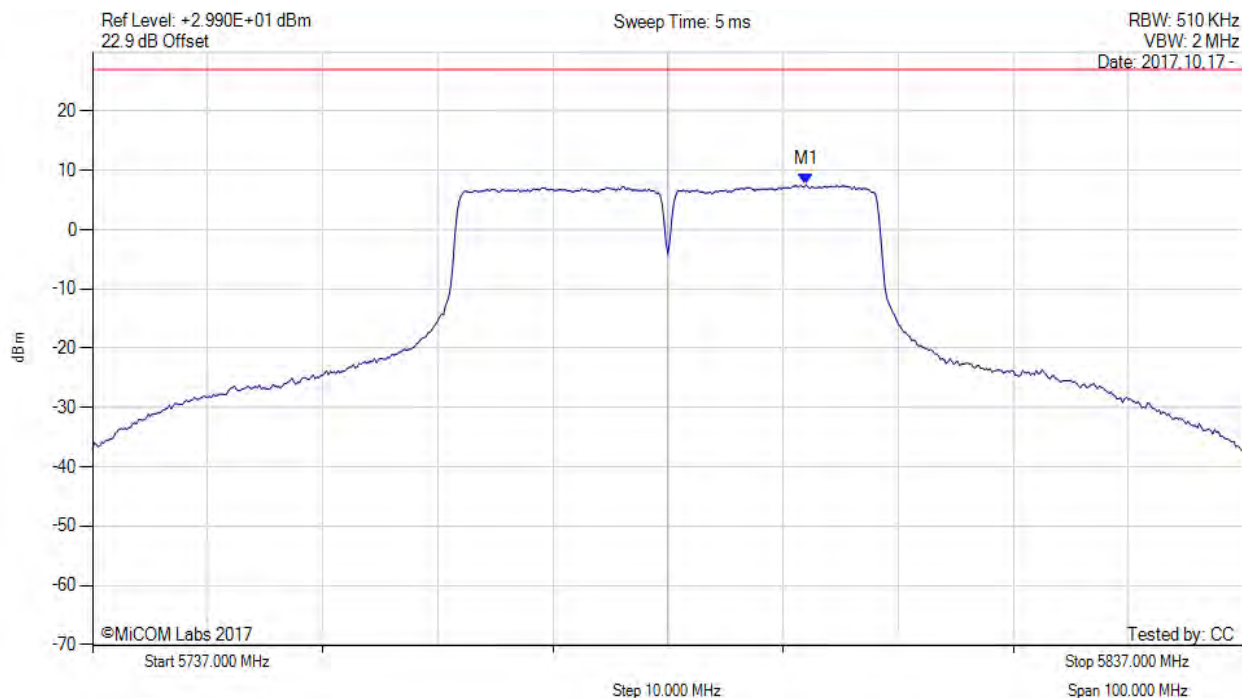
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# POWER SPECTRAL DENSITY

Variant: 40 MHz, Channel: 5787.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results                   |
|----------------------------------------------------------------------------------|-------------------------------|--------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5799.000 MHz : 7.570 dBm | Channel Frequency: 5787.00 MHz |

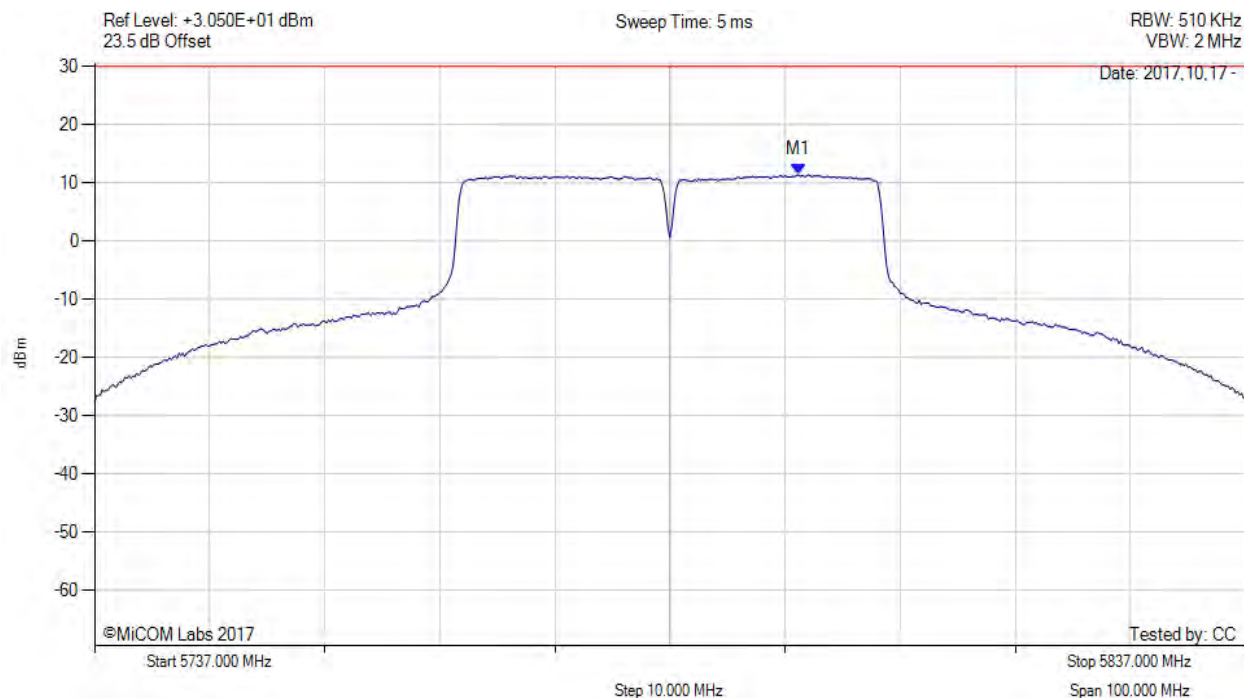
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# POWER SPECTRAL DENSITY

Variant: 40 MHz, Channel: 5787.00 MHz, SUM, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                      | Test Results                          |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5798.200 MHz : 11.384 dBm<br>M1 + DCCF : 5798.200 MHz : 11.384 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: ≤ 30.0 dBm<br>Margin: -18.6 dB |

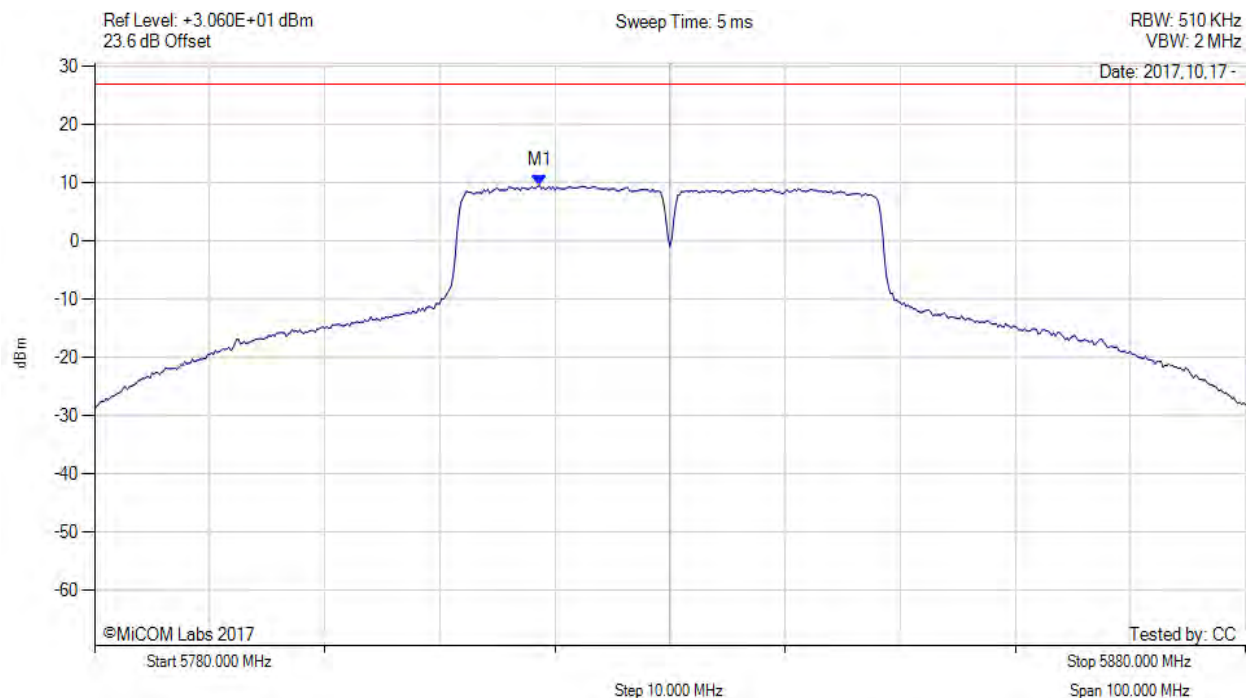
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# POWER SPECTRAL DENSITY

Variant: 40 MHz, Channel: 5830.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results        |
|----------------------------------------------------------------------------------|-------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5818.670 MHz : 9.568 dBm | Limit: ≤ 26.990 dBm |

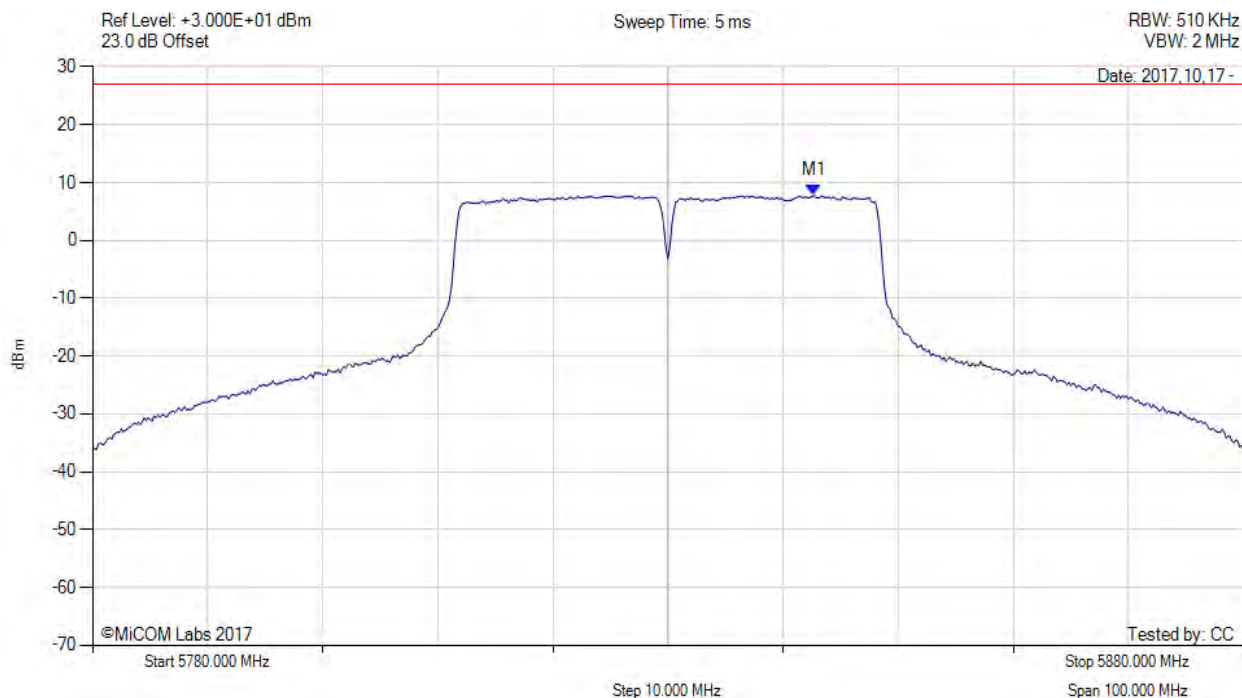
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# POWER SPECTRAL DENSITY

Variant: 40 MHz, Channel: 5830.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results        |
|----------------------------------------------------------------------------------|-------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5842.670 MHz : 7.815 dBm | Limit: ≤ 26.990 dBm |

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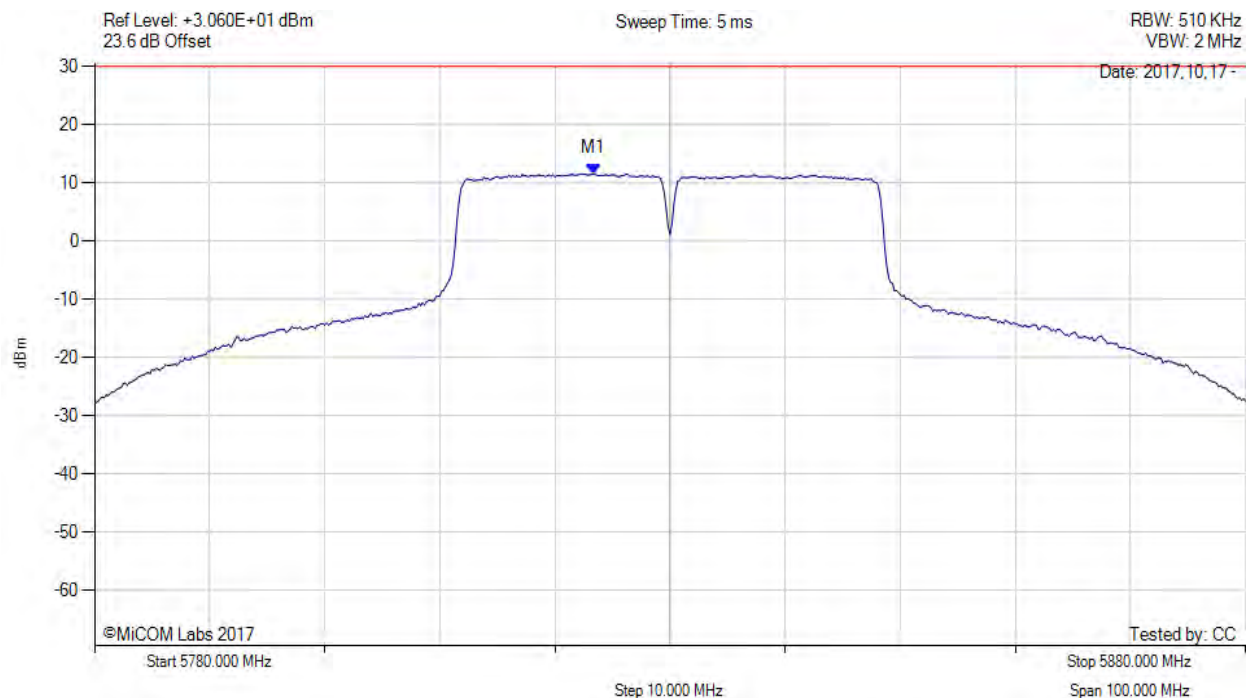


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#### POWER SPECTRAL DENSITY

Variant: 40 MHz, Channel: 5830.00 MHz, SUM, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                      | Test Results                               |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5823.300 MHz : 11.566 dBm<br>M1 + DCCF : 5823.300 MHz : 11.566 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: $\leq 30.0$ dBm<br>Margin: -18.4 dB |

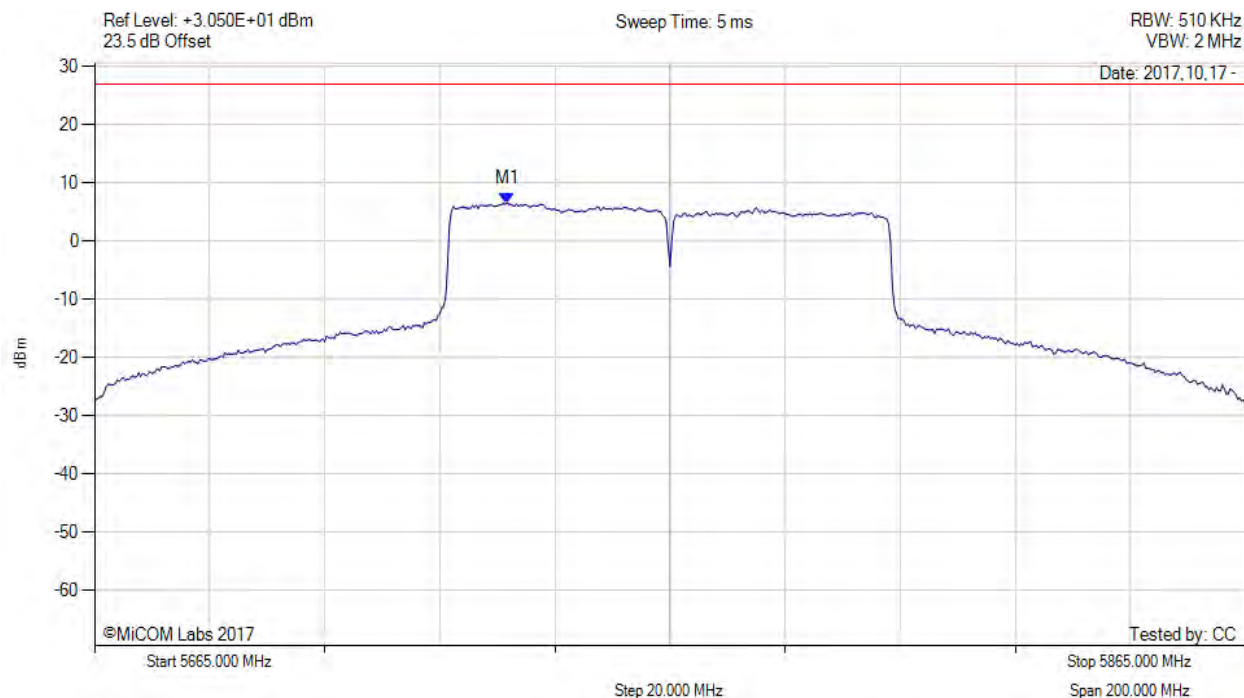
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# POWER SPECTRAL DENSITY

Variant: 80 MHz, Channel: 5765.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results        |
|----------------------------------------------------------------------------------|-------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5736.700 MHz : 6.529 dBm | Limit: ≤ 26.990 dBm |

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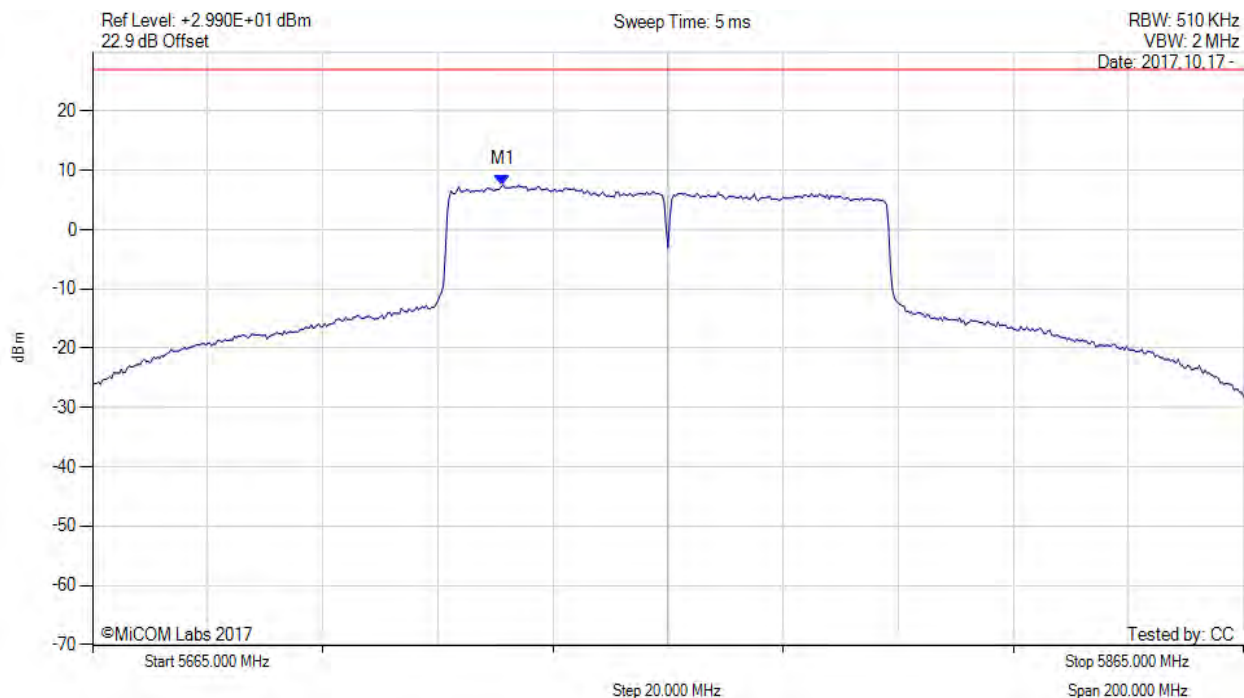
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# POWER SPECTRAL DENSITY

Variant: 80 MHz, Channel: 5765.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results        |
|----------------------------------------------------------------------------------|-------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5736.300 MHz : 7.547 dBm | Limit: ≤ 26.990 dBm |

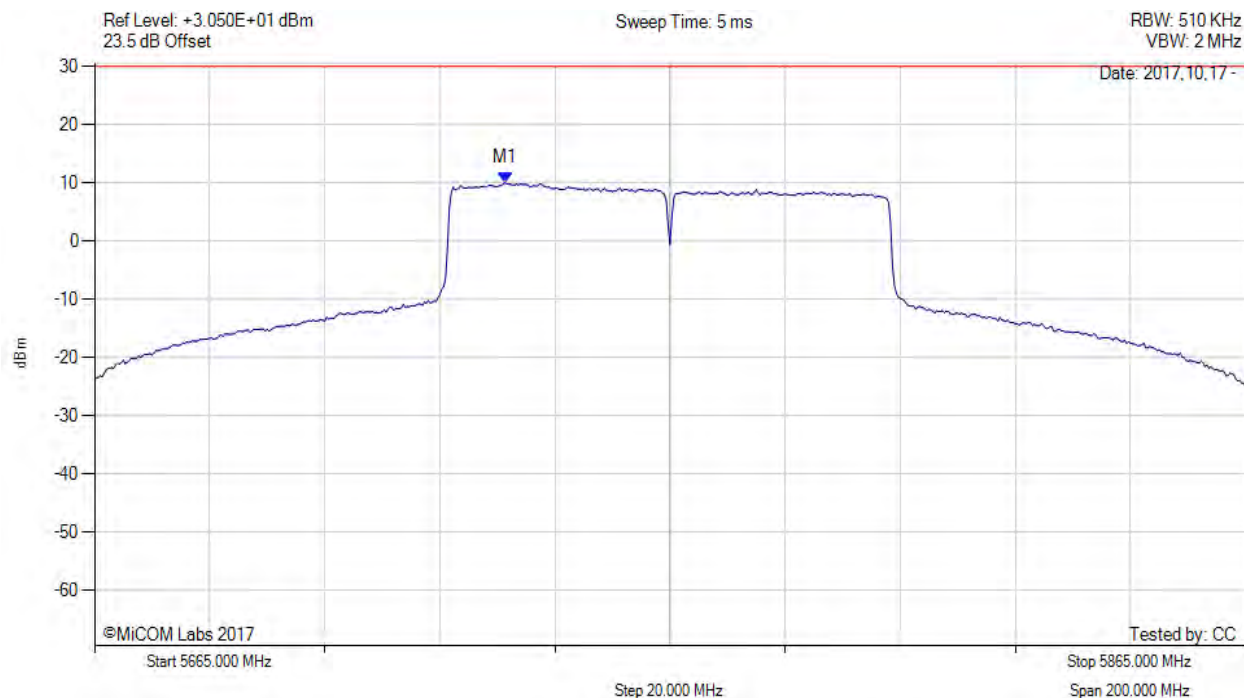
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# POWER SPECTRAL DENSITY

Variant: 80 MHz, Channel: 5765.00 MHz, SUM, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                      | Test Results                          |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5736.300 MHz : 10.000 dBm<br>M1 + DCCF : 5736.300 MHz : 10.000 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: ≤ 30.0 dBm<br>Margin: -20.0 dB |

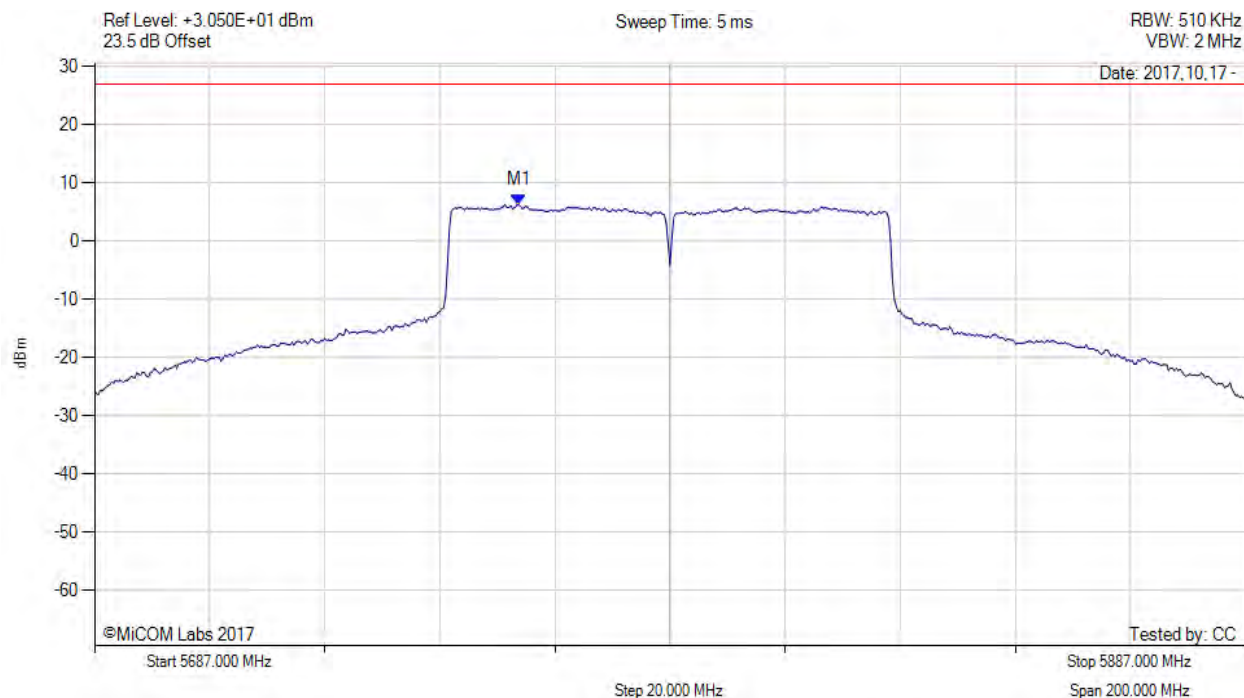
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# POWER SPECTRAL DENSITY

Variant: 80 MHz, Channel: 5787.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results        |
|----------------------------------------------------------------------------------|-------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5760.700 MHz : 6.259 dBm | Limit: ≤ 26.990 dBm |

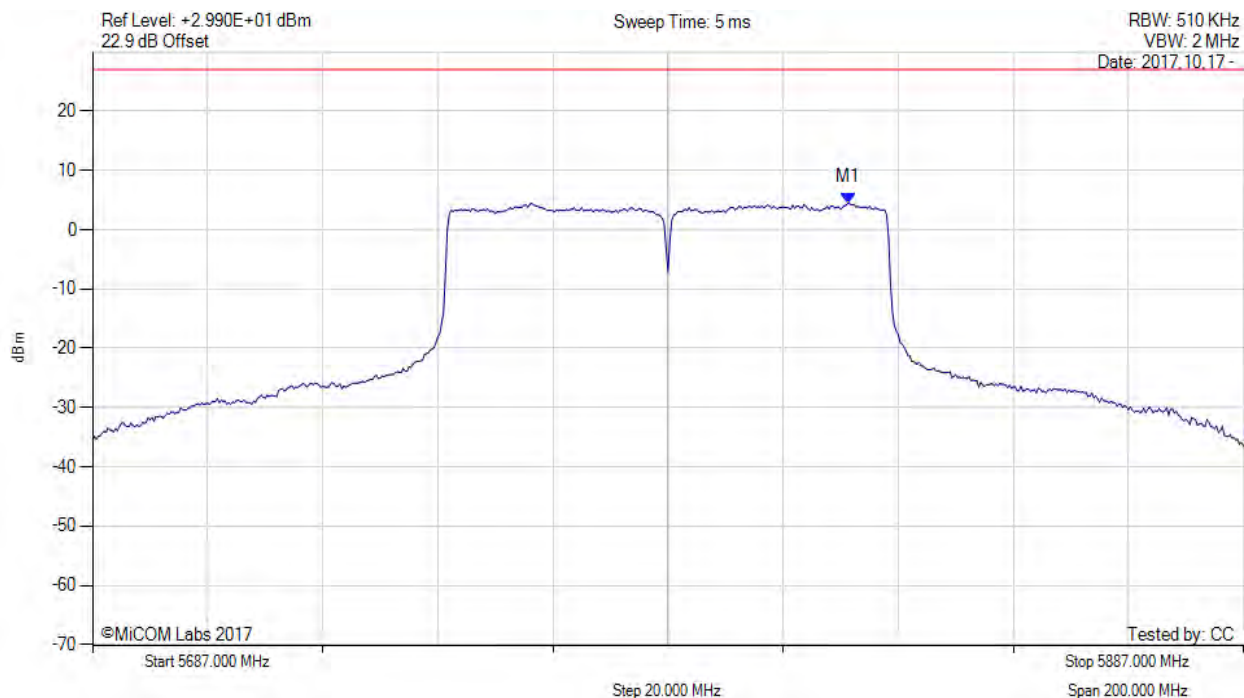
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# POWER SPECTRAL DENSITY

Variant: 80 MHz, Channel: 5787.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results                   |
|----------------------------------------------------------------------------------|-------------------------------|--------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5818.300 MHz : 4.527 dBm | Channel Frequency: 5787.00 MHz |

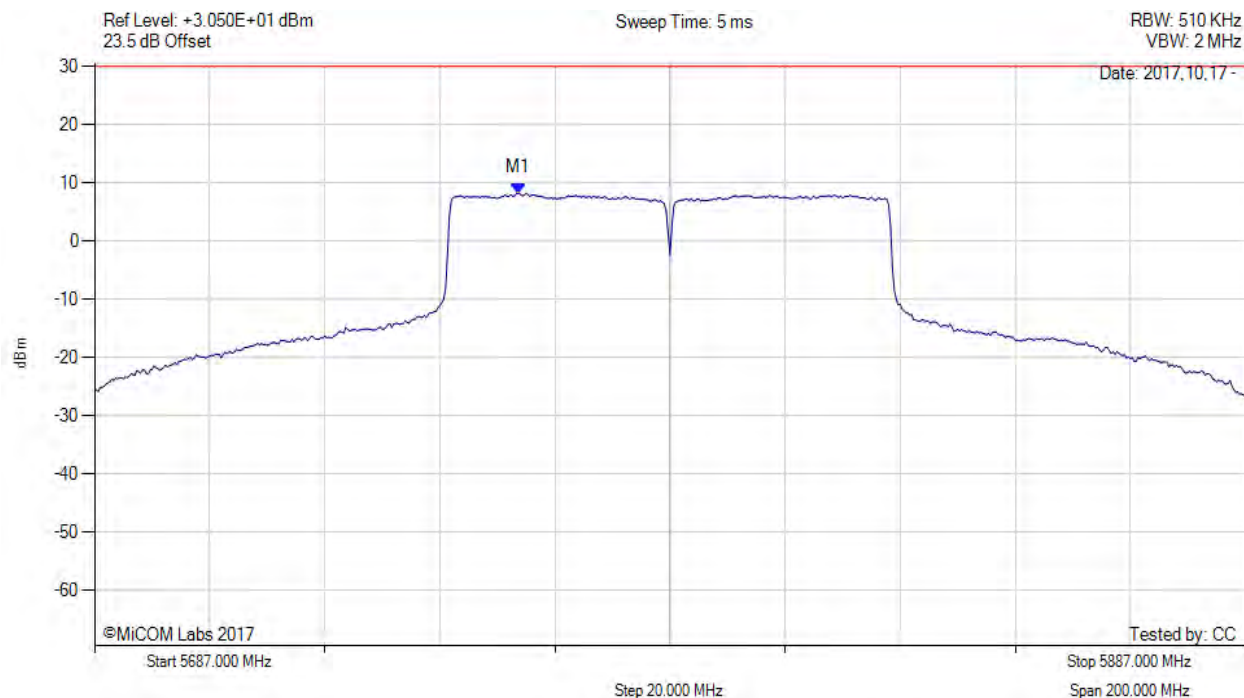
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# POWER SPECTRAL DENSITY

Variant: 80 MHz, Channel: 5787.00 MHz, SUM, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                    | Test Results                          |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5760.700 MHz : 8.230 dBm<br>M1 + DCCF : 5760.700 MHz : 8.230 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: ≤ 30.0 dBm<br>Margin: -21.8 dB |

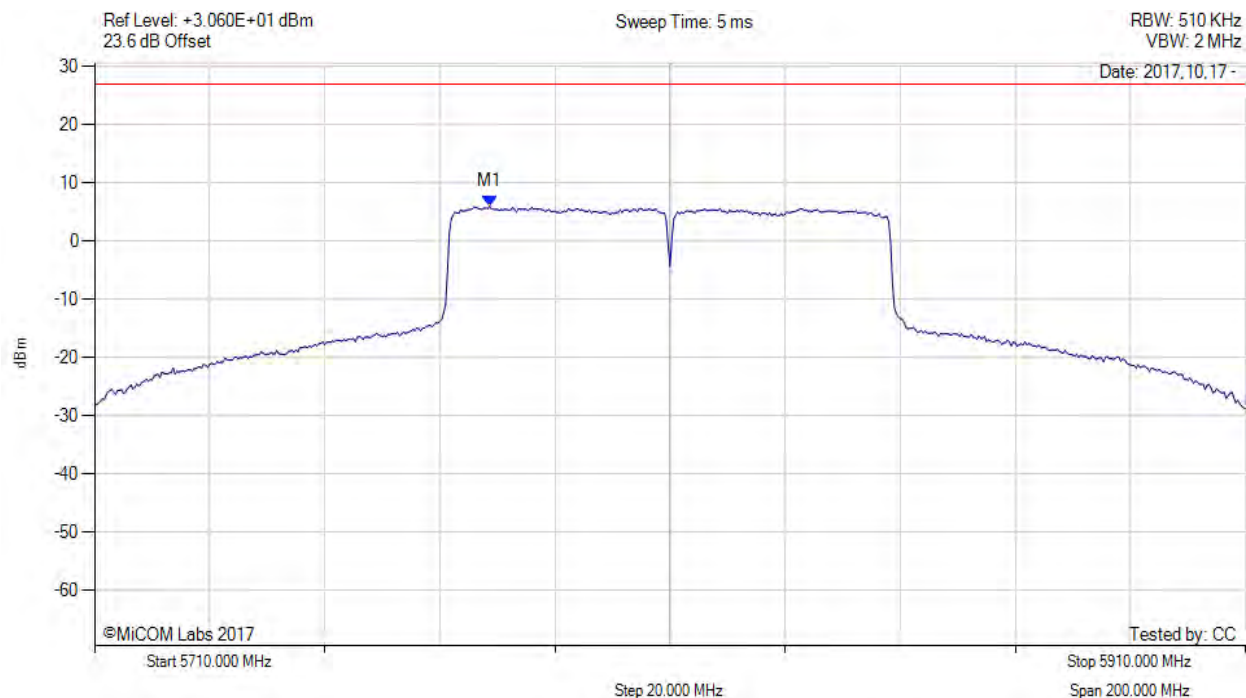
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# POWER SPECTRAL DENSITY

Variant: 80 MHz, Channel: 5810.00 MHz, Chain a, Temp: 20, Voltage: 55Vdc



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results        |
|----------------------------------------------------------------------------------|-------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5778.700 MHz : 5.982 dBm | Limit: ≤ 26.990 dBm |

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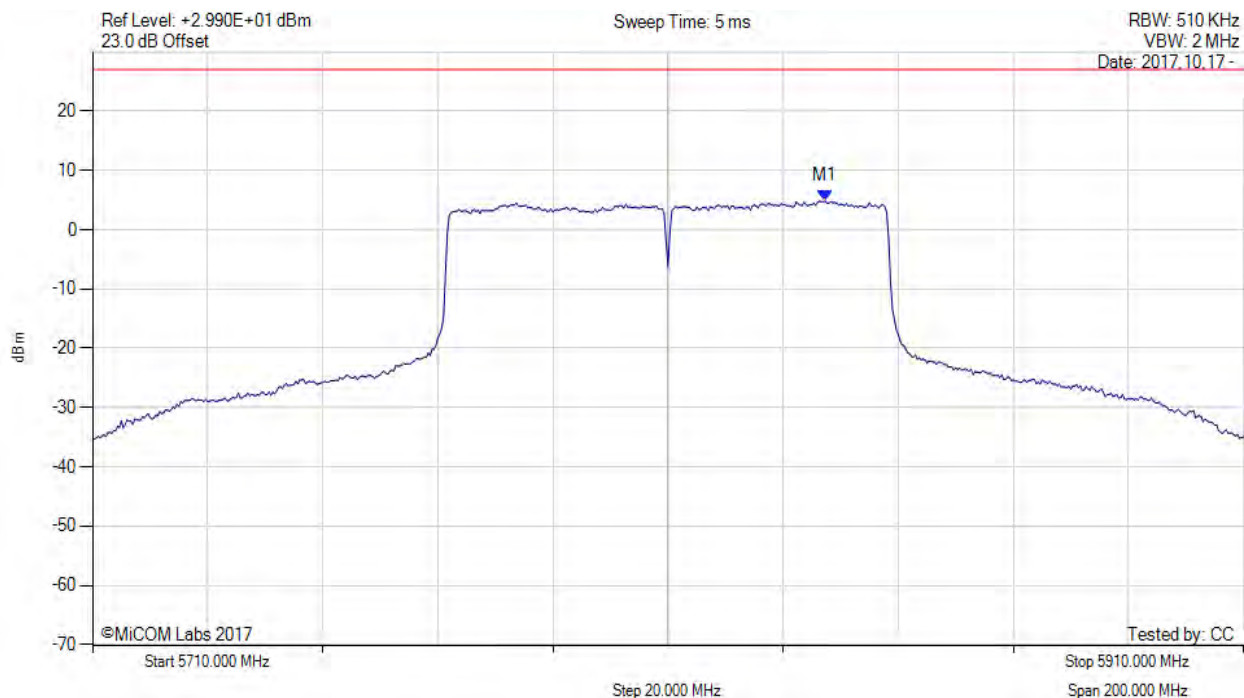


**Title:** Radwin Ltd. AP0158770  
**To:** FCC CFR 47 15.407 & ISED RSS-247  
**Serial #:** RDWN48-U4\_Conducted Rev A  
**Issue Date:** 20<sup>th</sup> November 2017  
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#### POWER SPECTRAL DENSITY

Variant: 80 MHz, Channel: 5810.00 MHz, Chain b, Temp: 20, Voltage: 55Vdc



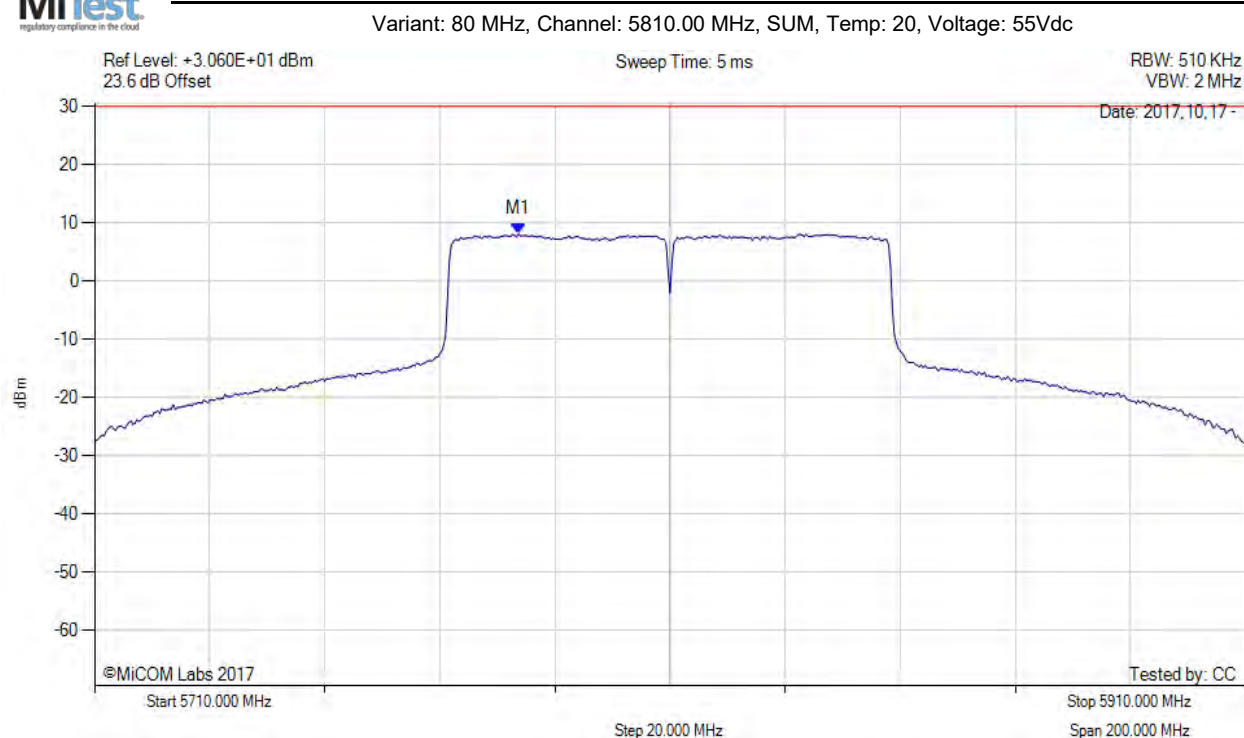
| Analyzer Setup                                                                   | Marker:Frequency:Amplitude    | Test Results        |
|----------------------------------------------------------------------------------|-------------------------------|---------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5837.300 MHz : 4.794 dBm | Limit: ≤ 26.990 dBm |

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# POWER SPECTRAL DENSITY



| Analyzer Setup                                                                   | Marker:Frequency:Amplitude                                                                                    | Test Results                          |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Detector = AVER<br>Sweep Count = +100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5783.700 MHz : 8.103 dBm<br>M1 + DCCF : 5783.700 MHz : 8.103 dBm<br>Duty Cycle Correction Factor : +0 dB | Limit: ≤ 30.0 dBm<br>Margin: -21.9 dB |

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