



427 West 12800 South  
Draper, UT 84020

## Test Report Attachment

|                                  |                      |
|----------------------------------|----------------------|
| <b>FCC ID</b>                    | SWX-UDBPS            |
| <b>ISED ID</b>                   | 6545A-UDBPS          |
| <b>Equipment Under Test</b>      | UDB-Pro-Sector       |
| <b>Test Report Serial Number</b> | TR9867_01            |
| <b>Date of Tests</b>             | 24 - 25 October 2024 |
| <b>Report Issue Date</b>         | 11 March 2025        |

## Test Personnel

|                             |            |
|-----------------------------|------------|
| <b>Testing performed by</b> | Trina Noor |
|-----------------------------|------------|

## Test Location

Testing was performed at the Unified Compliance Laboratory located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2025. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2025. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED and MRA US5037.



**NVLAP LAB CODE 600241-0**

# 1 RF Conducted UNII-2

NOTE: The first channel contains the equipment setting table(s), if subsequent channels do not have an equipment setting table(s) then the equipment setting table(s) is the same as the first channel.

## 1.1 UNII-2a VHT Mode

### 1.1.1 Summary

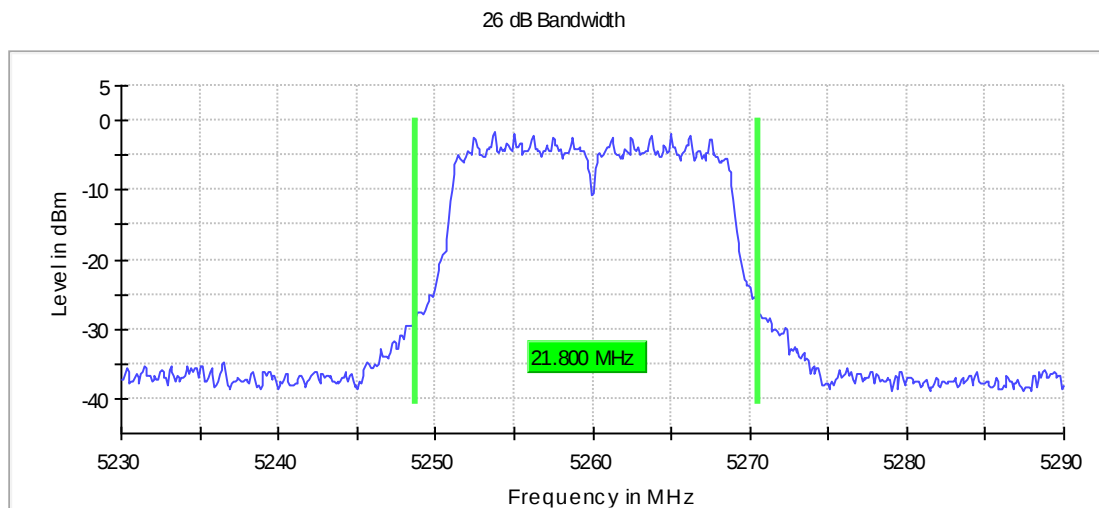
| Test                           | Frequency (MHz) | Nominal Bandwidth (MHz) | Result |
|--------------------------------|-----------------|-------------------------|--------|
| Emission Bandwidth 26 dB       | 5260.000        | 20.000000               | PASS   |
| RF output power                | 5260.000        | 20.000000               | PASS   |
| Power Spectral Density         | 5260.000        | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99% | 5260.000        | 20.000000               | PASS   |
| Emission Bandwidth 26 dB       | 5280.000        | 20.000000               | PASS   |
| Power Spectral Density         | 5280.000        | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99% | 5280.000        | 20.000000               | PASS   |
| Emission Bandwidth 26 dB       | 5320.000        | 20.000000               | PASS   |
| Power Spectral Density         | 5320.000        | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99% | 5320.000        | 20.000000               | PASS   |
| Emission Bandwidth 26 dB       | 5270.000        | 40.000000               | PASS   |
| Power Spectral Density         | 5270.000        | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99% | 5270.000        | 40.000000               | PASS   |
| Emission Bandwidth 26 dB       | 5310.000        | 40.000000               | PASS   |
| Power Spectral Density         | 5310.000        | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99% | 5310.000        | 40.000000               | PASS   |

## Emission Bandwidth 26 dB (5260 MHz; 24.000 dBm; 20 MHz)

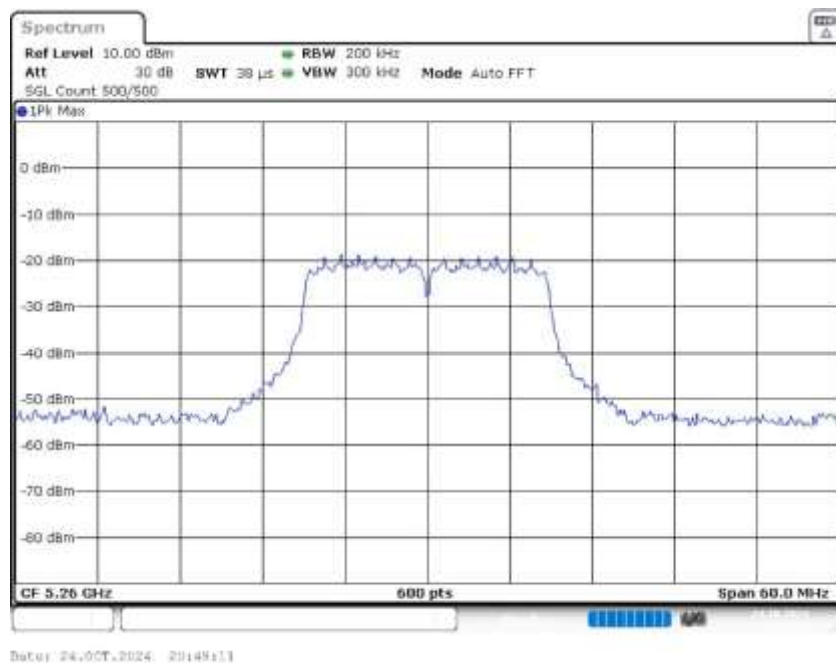
### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5260.000000         | 21.800000       | ---             | ---             | 5248.750000          | 5270.550000           |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5260.000000         | -1.7            | PASS   |



Bandwidth



## Measurement

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| Start Frequency | 5.23000 GHz      | 5.23000 GHz    |
| Stop Frequency  | 5.29000 GHz      | 5.29000 GHz    |
| Span            | 60.000 MHz       | 60.000 MHz     |
| RBW             | 200.000 kHz      | ~ 200.000 kHz  |
| VBW             | 300.000 kHz      | >= 240.000 kHz |
| SweepPoints     | 600              | ~ 600          |
| Sweptime        | 37.969 $\mu$ s   | AUTO           |
| Reference Level | 10.000 dBm       | 10.000 dBm     |

|             |           |          |
|-------------|-----------|----------|
| Attenuation | 30.000 dB | AUTO     |
| Detector    | MaxPeak   | MaxPeak  |
| SweepCount  | 500       | 500      |
| Filter      | 3 dB      | 3 dB     |
| Trace Mode  | Max Hold  | Max Hold |
| SweepType   | FFT       | AUTO     |
| Preamp      | off       | off      |

## RF output power (5260 MHz; 24.000 dBm; 20 MHz)

### Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---------------------|-----------------|-----------------|------------------|---------------|--------|
| 5260.000000         | 11.7            | 24.0            | 11.7             | 94.790        | PASS   |

### OSP PowerMeter settings

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Measurement Time | 1.000 s          | 1.000 s       |
| Points           | 1000000          | 1000000       |
| Time resolution  | 1.000 $\mu$ s    | 1.000 $\mu$ s |

## Power Spectral Density (5260 MHz; 24.000 dBm; 20 MHz)

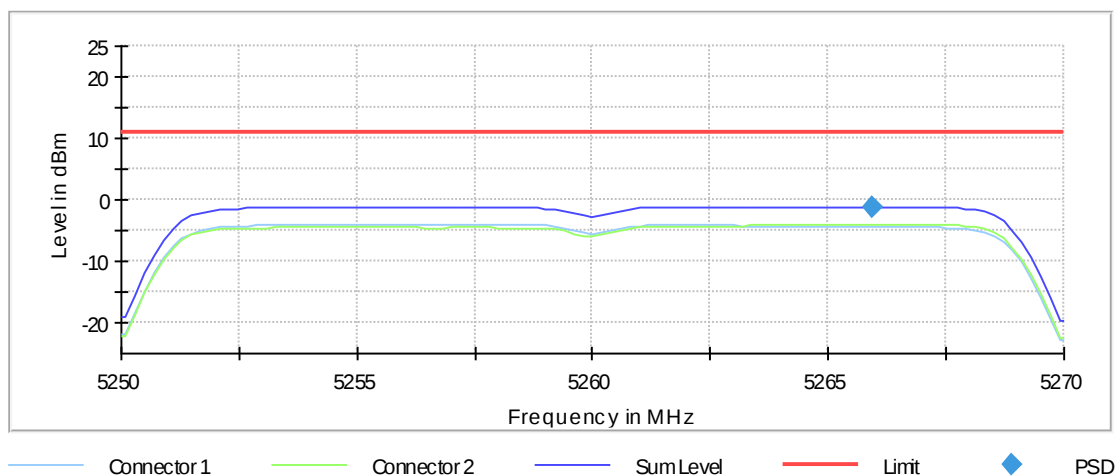
### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5260.000000         | 5265.940594     | -1.099    | 11.0            | PASS   |

### Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

Power Spectral Density



## Measurement

| Setting         | Instrument Value | Target Value  |
|-----------------|------------------|---------------|
| Start Frequency | 5.25000 GHz      | 5.25000 GHz   |
| Stop Frequency  | 5.27000 GHz      | 5.27000 GHz   |
| Span            | 20.000 MHz       | 20.000 MHz    |
| RBW             | 1.000 MHz        | <= 1.000 MHz  |
| VBW             | 3.000 MHz        | >= 3.000 MHz  |
| SweepPoints     | 101              | ~ 40          |
| SweepTime       | 2.020 ms         | 2.020 ms      |
| Reference Level | 0.000 dBm        | 0.000 dBm     |
| Attenuation     | 20.000 dB        | AUTO          |
| Detector        | RMS              | RMS           |
| SweepCount      | 100              | 100           |
| Filter          | 3 dB             | 3 dB          |
| Trace Mode      | Average Power    | Average Power |
| SweepType       | FFT              | AUTO          |
| Preamp          | off              | off           |

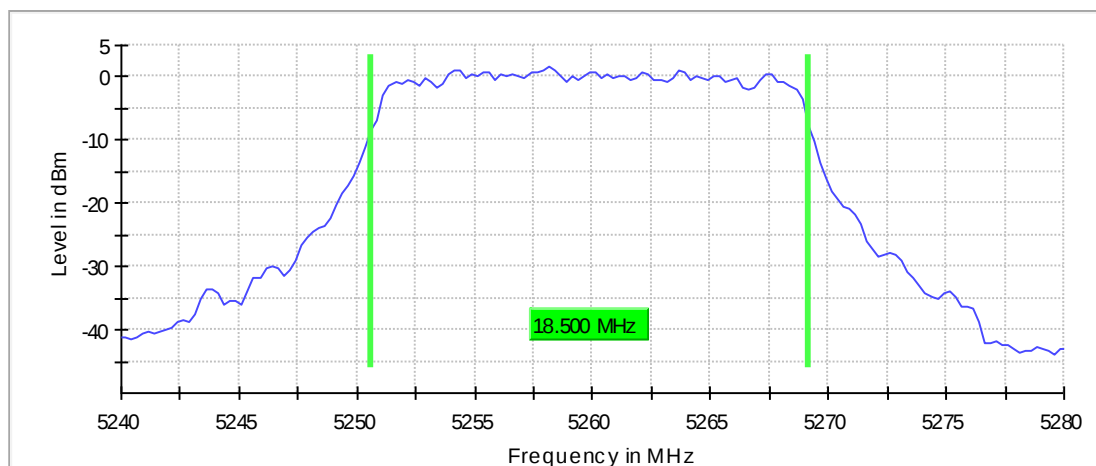
**Occupied Channel Bandwidth 99% (5260 MHz; 24.000 dBm; 20 MHz)**

## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5260.000000         | 18.500000       | ---             | ---             | 5250.625000          | 5269.125000           |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5260.000000         | PASS   |

99 %Bandwidth



Bandwidth



## Measurement

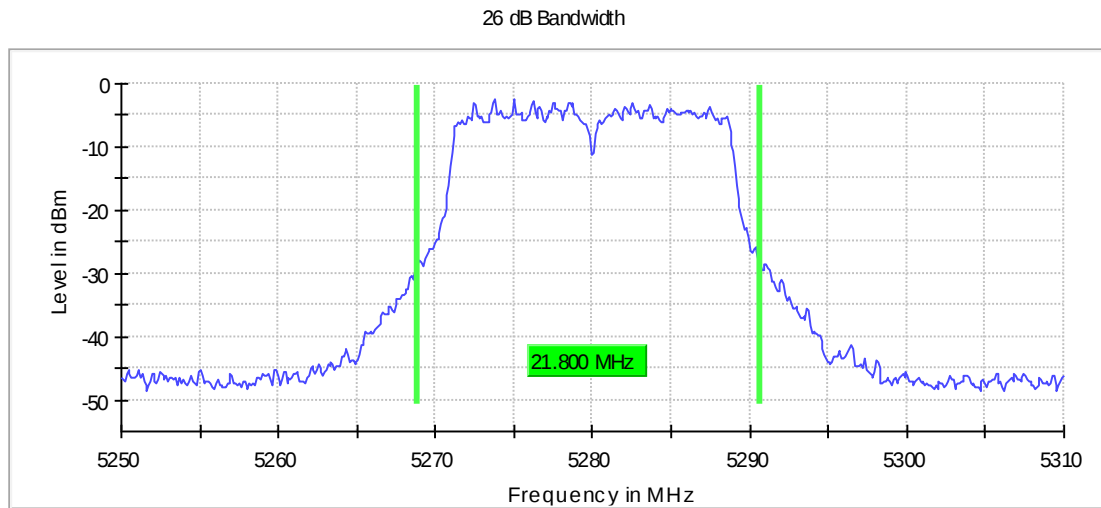
| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| Start Frequency | 5.24000 GHz      | 5.24000 GHz    |
| Stop Frequency  | 5.28000 GHz      | 5.28000 GHz    |
| Span            | 40.000 MHz       | 40.000 MHz     |
| RBW             | 500.000 kHz      | >= 400.000 kHz |
| VBW             | 2.000 MHz        | >= 1.500 MHz   |
| SweepPoints     | 160              | ~ 160          |
| Sweptime        | 11.344 μs        | AUTO           |
| Reference Level | 0.000 dBm        | 0.000 dBm      |
| Attenuation     | 20.000 dB        | AUTO           |
| Detector        | MaxPeak          | MaxPeak        |
| SweepCount      | 500              | 500            |
| Filter          | 3 dB             | 3 dB           |
| Trace Mode      | Max Hold         | Max Hold       |
| SweepType       | FFT              | AUTO           |
| Preamp          | off              | off            |

## Emission Bandwidth 26 dB (5280 MHz; 24.000 dBm; 20 MHz)

### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5280.000000         | 21.800000       | ---             | ---             | 5268.850000          | 5290.650000           |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5280.000000         | -2.4            | PASS   |



Bandwidth



**Power Spectral Density (5280 MHz; 24.000 dBm; 20 MHz)**

**Result**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5280.000000         | 5286.138614     | -1.178    | 11.0            | PASS   |

## Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

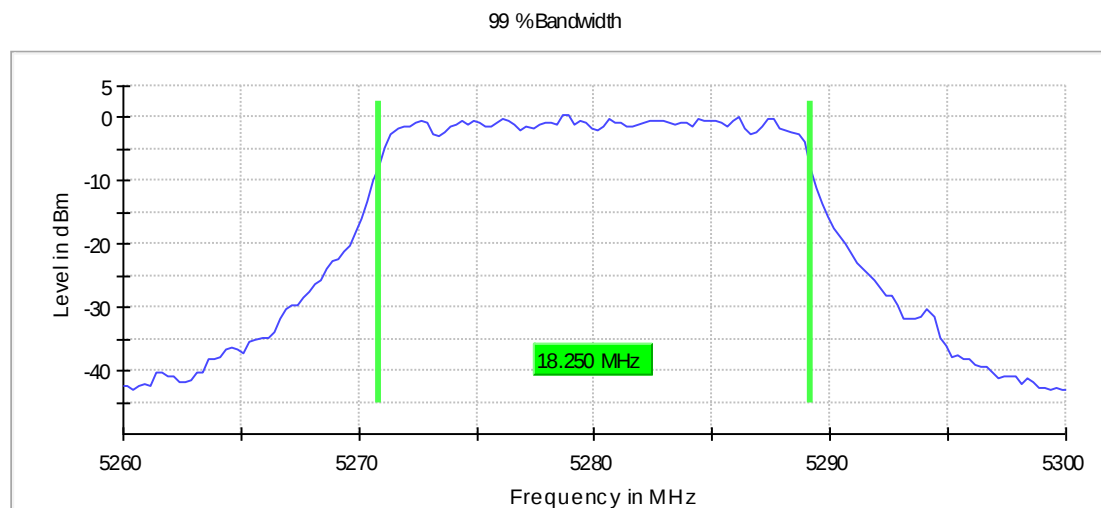


**Occupied Channel Bandwidth 99% (5280 MHz; 24.000 dBm; 20 MHz)**

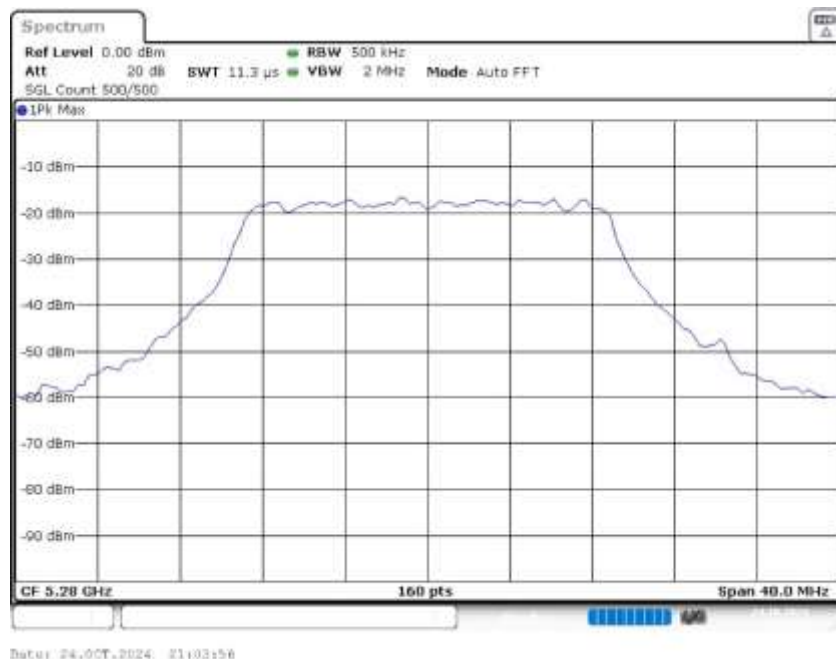
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5280.000000         | 18.250000       | ---             | ---             | 5270.875000          | 5289.125000           |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5280.000000         | PASS   |



## Bandwidth



## Measurement

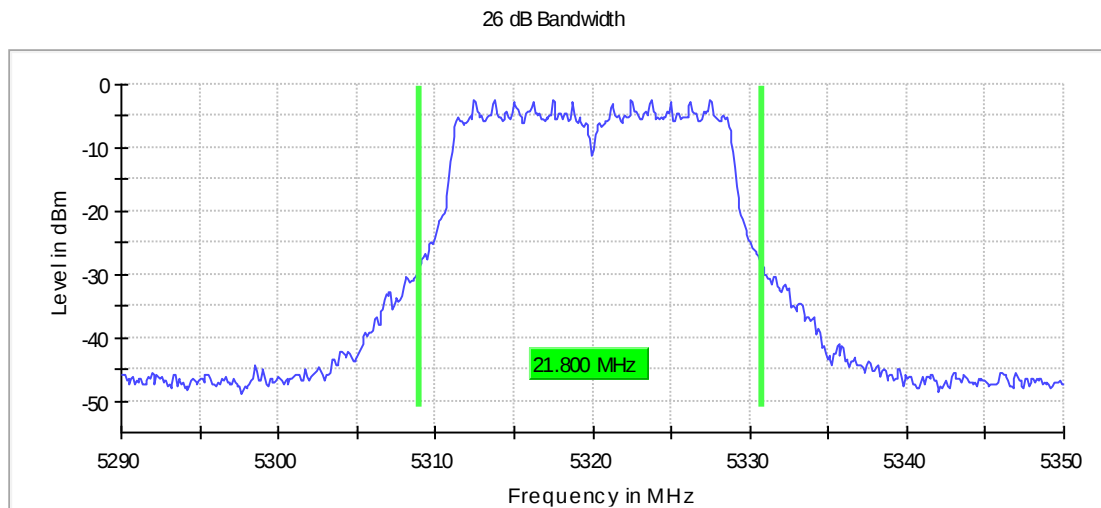
| Setting         | Instrument Value | Target Value       |
|-----------------|------------------|--------------------|
| Start Frequency | 5.26000 GHz      | 5.26000 GHz        |
| Stop Frequency  | 5.30000 GHz      | 5.30000 GHz        |
| Span            | 40.000 MHz       | 40.000 MHz         |
| RBW             | 500.000 kHz      | $\geq 400.000$ kHz |
| VBW             | 2.000 MHz        | $\geq 1.500$ MHz   |
| SweepPoints     | 160              | $\sim 160$         |
| SweepTime       | 11.344 $\mu$ s   | AUTO               |
| Reference Level | 0.000 dBm        | 0.000 dBm          |
| Attenuation     | 20.000 dB        | AUTO               |
| Detector        | MaxPeak          | MaxPeak            |
| SweepCount      | 500              | 500                |
| Filter          | 3 dB             | 3 dB               |
| Trace Mode      | Max Hold         | Max Hold           |
| SweepType       | FFT              | AUTO               |
| Preamp          | off              | off                |

## Emission Bandwidth 26 dB (5320 MHz; 24.000 dBm; 20 MHz)

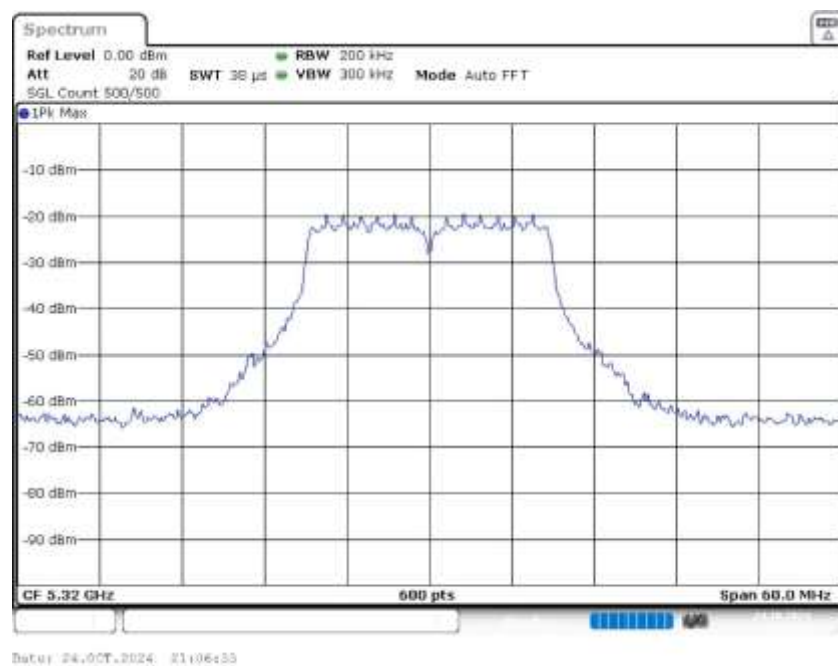
### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5320.000000         | 21.800000       | ---             | ---             | 5308.950000          | 5330.750000           |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5320.000000         | -2.4            | PASS   |



Bandwidth



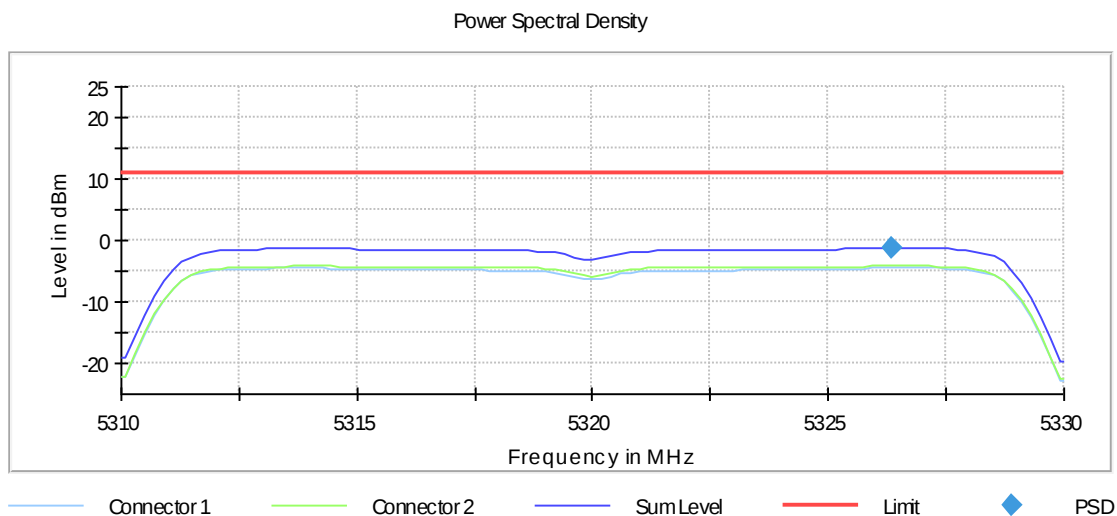
**Power Spectral Density (5320 MHz; 24.000 dBm; 20 MHz)**

**Result**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5320.000000         | 5326.336634     | -1.332    | 11.0            | PASS   |

## Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |



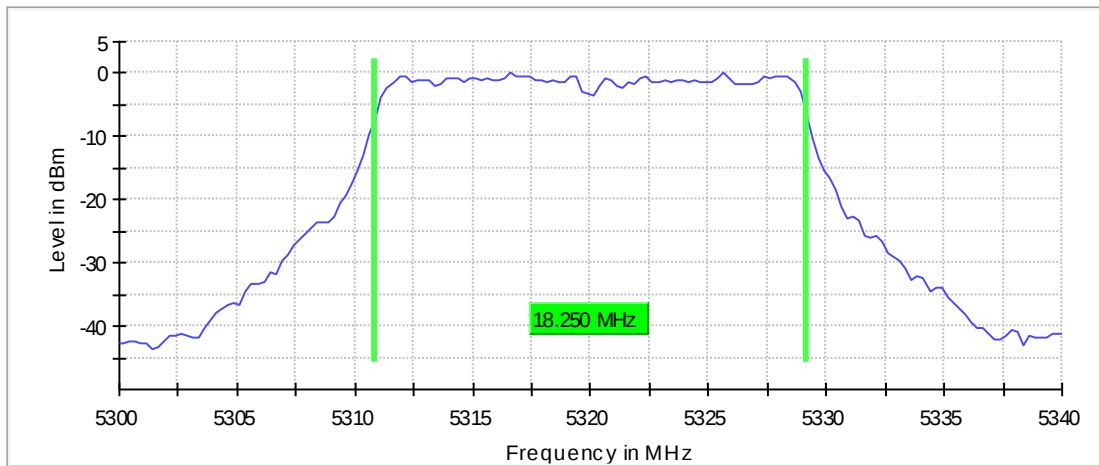
**Occupied Channel Bandwidth 99% (5320 MHz; 24.000 dBm; 20 MHz)**

## 99 % Bandwidth

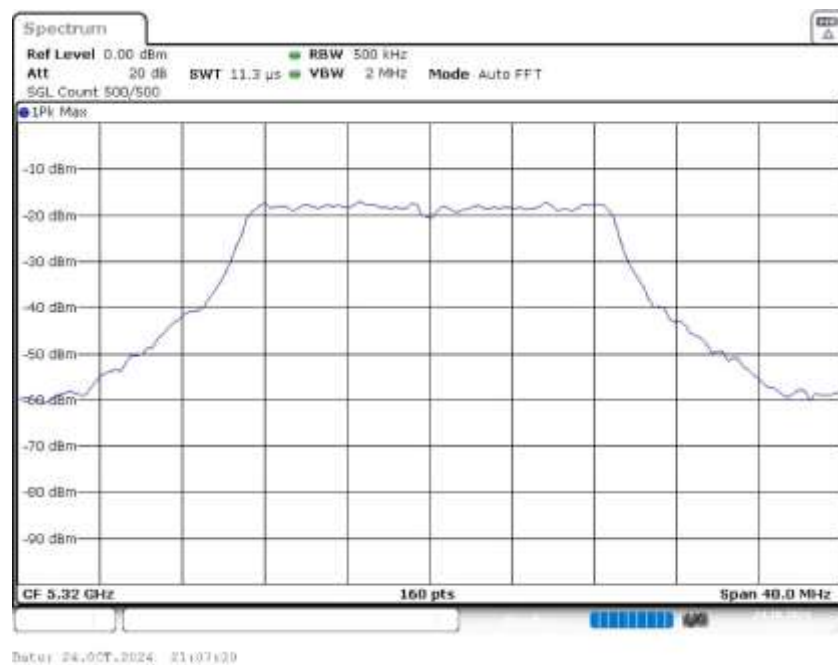
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5320.000000         | 18.250000       | ---             | ---             | 5310.875000          | 5329.125000           |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5320.000000         | PASS   |

99 %Bandwidth



Bandwidth



## Measurement

| Setting         | Instrument Value | Target Value       |
|-----------------|------------------|--------------------|
| Start Frequency | 5.30000 GHz      | 5.30000 GHz        |
| Stop Frequency  | 5.34000 GHz      | 5.34000 GHz        |
| Span            | 40.000 MHz       | 40.000 MHz         |
| RBW             | 500.000 kHz      | $\geq 400.000$ kHz |
| VBW             | 2.000 MHz        | $\geq 1.500$ MHz   |
| SweepPoints     | 160              | $\sim 160$         |
| SweepTime       | 11.344 $\mu$ s   | AUTO               |
| Reference Level | 0.000 dBm        | 0.000 dBm          |
| Attenuation     | 20.000 dB        | AUTO               |

|            |          |          |
|------------|----------|----------|
| Detector   | MaxPeak  | MaxPeak  |
| SweepCount | 500      | 500      |
| Filter     | 3 dB     | 3 dB     |
| Trace Mode | Max Hold | Max Hold |
| SweepType  | FFT      | AUTO     |
| Preamp     | off      | off      |

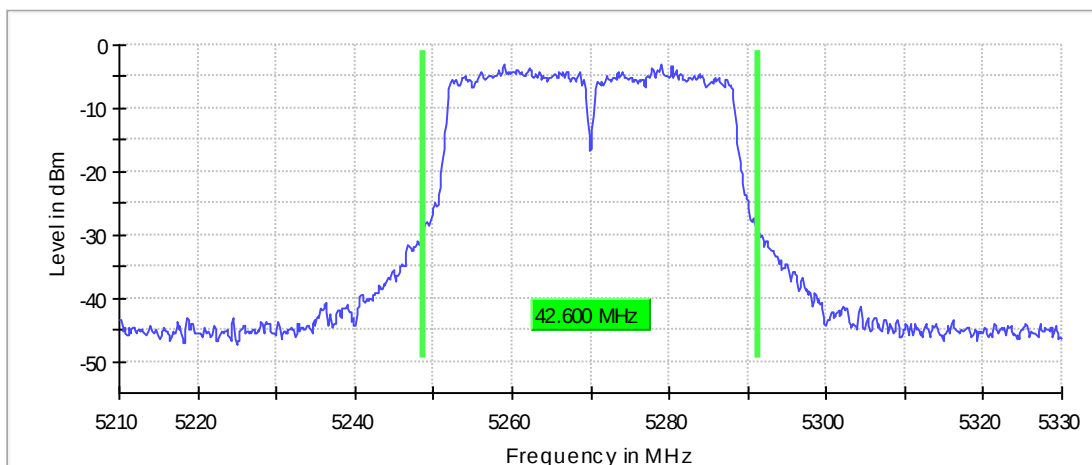
## Emission Bandwidth 26 dB (5270 MHz; 24.000 dBm; 40 MHz)

### 26 dB Bandwidth

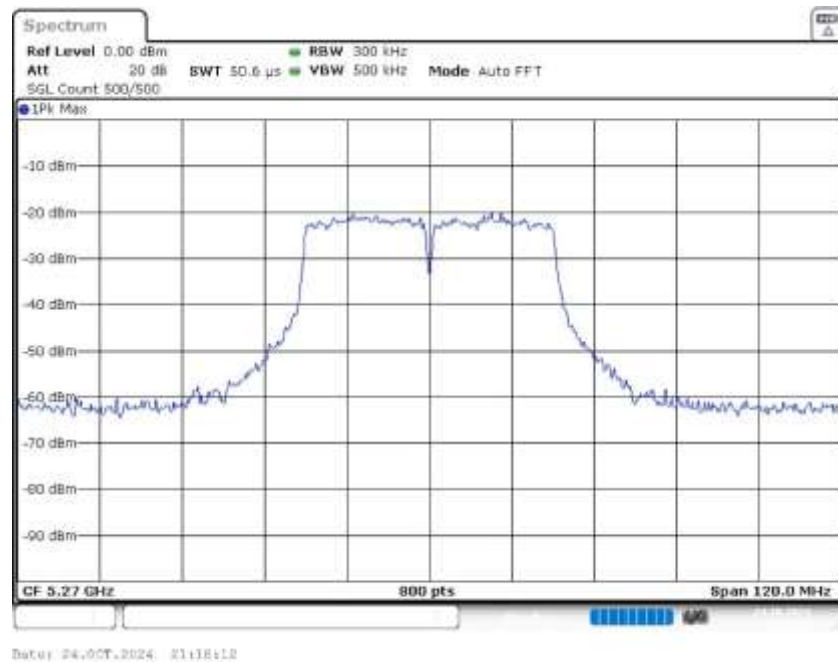
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5270.000000         | 42.600000       | ---             | ---             | 5248.775000          | 5291.375000           |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5270.000000         | -3.0            | PASS   |

26 dB Bandwidth



Bandwidth



## Power Spectral Density (5270 MHz; 24.000 dBm; 40 MHz)

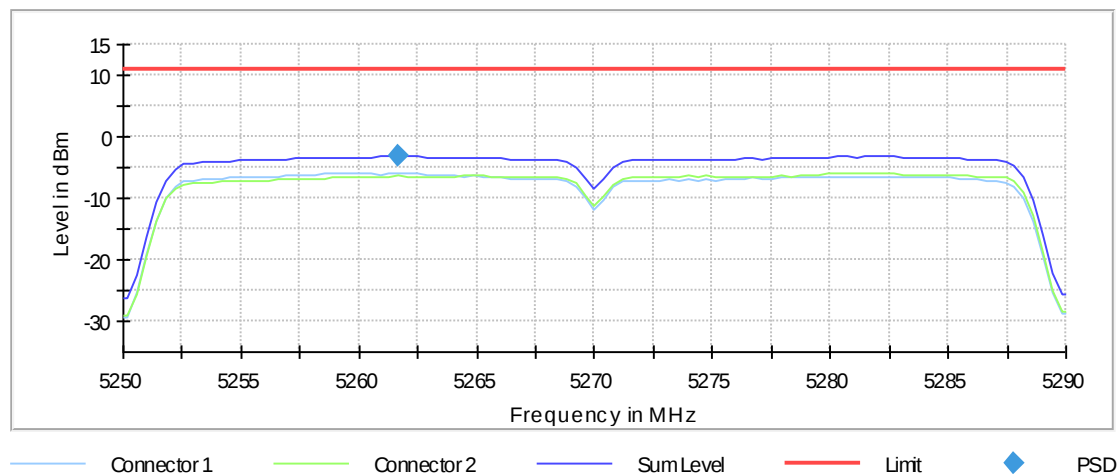
### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5270.000000         | 5261.683168     | -3.172    | 11.0            | PASS   |

### Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

Power Spectral Density



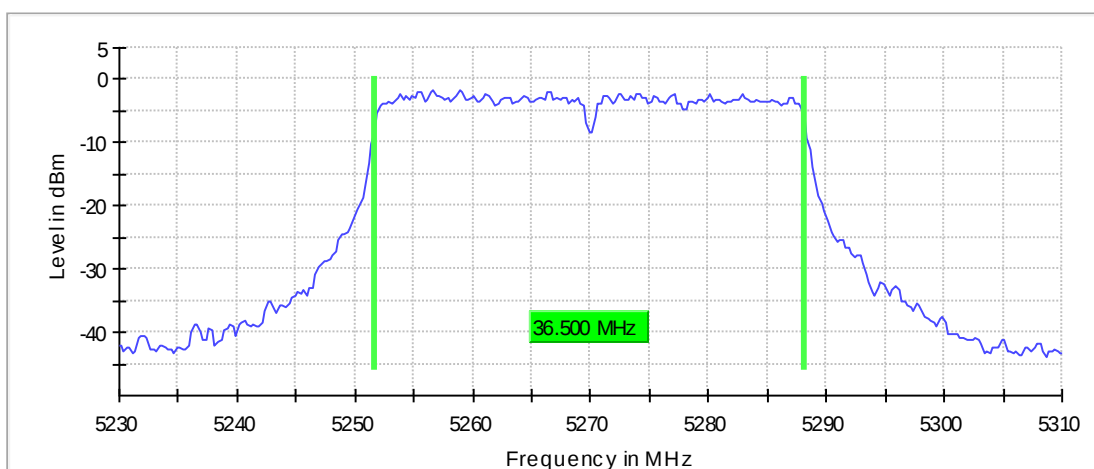
## Occupied Channel Bandwidth 99% (5270 MHz; 24.000 dBm; 40 MHz)

### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5270.000000         | 36.500000       | ---             | ---             | 5251.625000          | 5288.125000           |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5270.000000         | PASS   |

99 % Bandwidth



Bandwidth



## Measurement

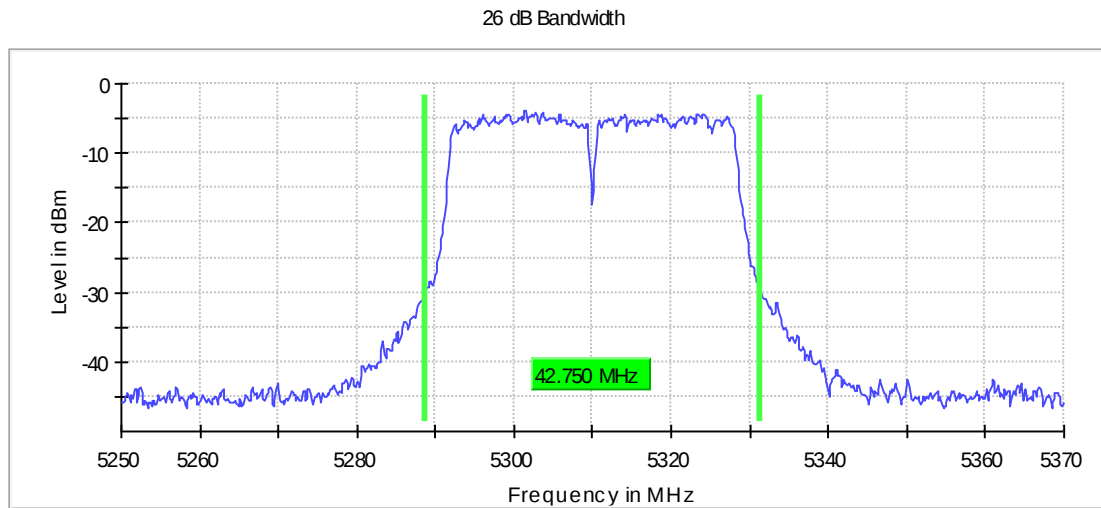
| Setting         | Instrument Value | Target Value       |
|-----------------|------------------|--------------------|
| Start Frequency | 5.23000 GHz      | 5.23000 GHz        |
| Stop Frequency  | 5.31000 GHz      | 5.31000 GHz        |
| Span            | 80.000 MHz       | 80.000 MHz         |
| RBW             | 500.000 kHz      | $\geq 400.000$ kHz |
| VBW             | 2.000 MHz        | $\geq 1.500$ MHz   |
| SweepPoints     | 320              | $\sim 320$         |
| Sweptime        | 18.906 $\mu$ s   | AUTO               |
| Reference Level | 0.000 dBm        | 0.000 dBm          |
| Attenuation     | 20.000 dB        | AUTO               |
| Detector        | MaxPeak          | MaxPeak            |
| SweepCount      | 500              | 500                |
| Filter          | 3 dB             | 3 dB               |
| Trace Mode      | Max Hold         | Max Hold           |
| Sweeptype       | FFT              | AUTO               |
| Preamp          | off              | off                |

## Emission Bandwidth 26 dB (5310 MHz; 24.000 dBm; 40 MHz)

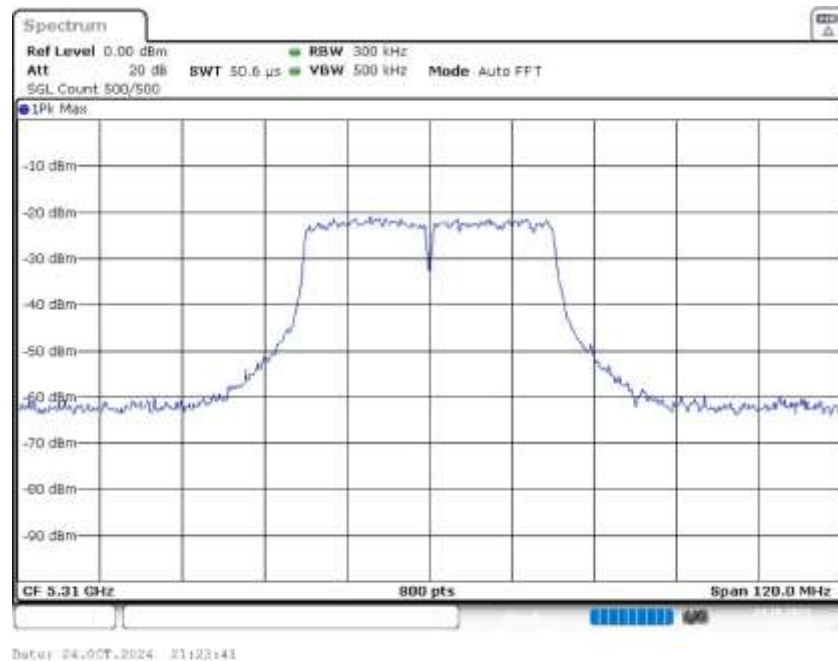
### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5310.000000         | 42.750000       | ---             | ---             | 5288.625000          | 5331.375000           |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5310.000000         | -3.8            | PASS   |



Bandwidth



**Power Spectral Density (5310 MHz; 24.000 dBm; 40 MHz)**

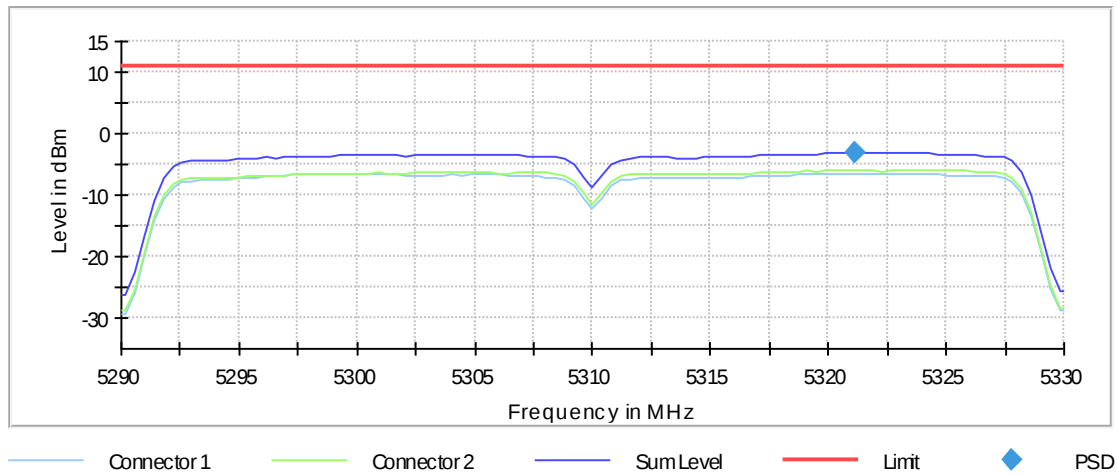
**Result**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5310.000000         | 5321.089109     | -3.155    | 11.0            | PASS   |

## Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

Power Spectral Density



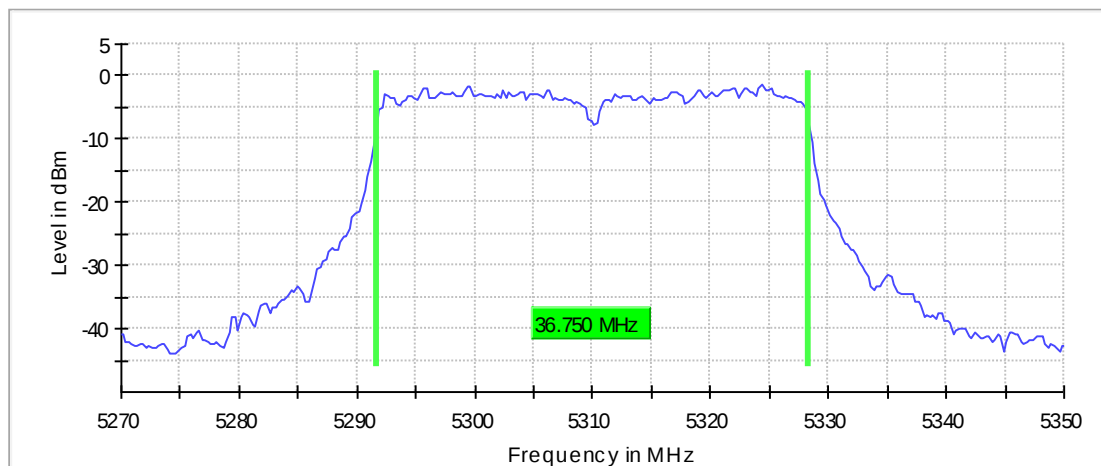
**Occupied Channel Bandwidth 99% (5310 MHz; 24.000 dBm; 40 MHz)**

## 99 % Bandwidth

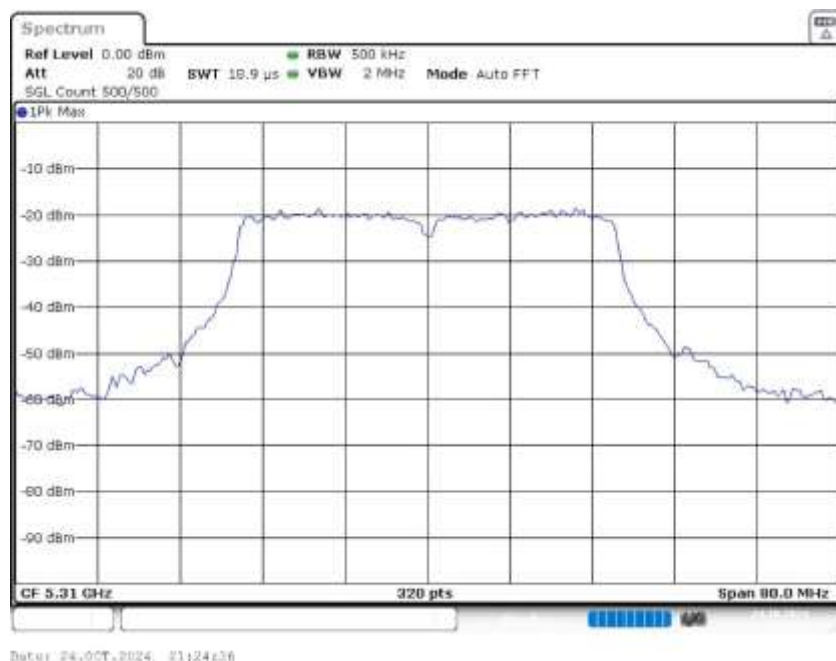
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5310.000000         | 36.750000       | ---             | ---             | 5291.625000          | 5328.375000           |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5310.000000         | PASS   |

99 %Bandwidth



## Bandwidth



## Measurement

| Setting         | Instrument Value | Target Value       |
|-----------------|------------------|--------------------|
| Start Frequency | 5.27000 GHz      | 5.27000 GHz        |
| Stop Frequency  | 5.35000 GHz      | 5.35000 GHz        |
| Span            | 80.000 MHz       | 80.000 MHz         |
| RBW             | 500.000 kHz      | $\geq 400.000$ kHz |
| VBW             | 2.000 MHz        | $\geq 1.500$ MHz   |
| SweepPoints     | 320              | $\sim 320$         |
| Sweptime        | 18.906 $\mu$ s   | AUTO               |
| Reference Level | 0.000 dBm        | 0.000 dBm          |
| Attenuation     | 20.000 dB        | AUTO               |
| Detector        | MaxPeak          | MaxPeak            |
| SweepCount      | 500              | 500                |
| Filter          | 3 dB             | 3 dB               |
| Trace Mode      | Max Hold         | Max Hold           |
| SweepType       | FFT              | AUTO               |
| Preamp          | off              | off                |

## 1.2 UNII-2c VHT Mode

### 1.2.1 Summary

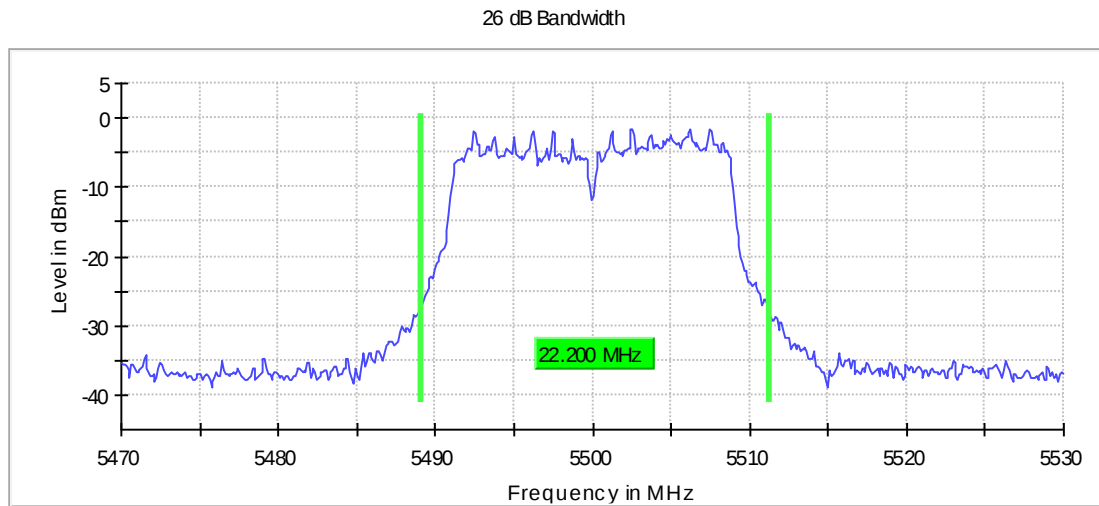
| Test                           | Frequency (MHz) | Nominal Bandwidth (MHz) | Result |
|--------------------------------|-----------------|-------------------------|--------|
| Emission Bandwidth 26 dB       | 5500.000        | 20.000000               | PASS   |
| RF output power                | 5500.000        | 20.000000               | PASS   |
| Power Spectral Density         | 5500.000        | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99% | 5500.000        | 20.000000               | PASS   |
| Emission Bandwidth 26 dB       | 5600.000        | 20.000000               | PASS   |
| Power Spectral Density         | 5600.000        | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99% | 5600.000        | 20.000000               | PASS   |
| Emission Bandwidth 26 dB       | 5720.000        | 20.000000               | PASS   |
| Power Spectral Density         | 5720.000        | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99% | 5720.000        | 20.000000               | PASS   |
| Emission Bandwidth 26 dB       | 5510.000        | 40.000000               | PASS   |
| Power Spectral Density         | 5510.000        | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99% | 5510.000        | 40.000000               | PASS   |
| Emission Bandwidth 26 dB       | 5590.000        | 40.000000               | PASS   |
| Power Spectral Density         | 5590.000        | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99% | 5590.000        | 40.000000               | PASS   |
| Emission Bandwidth 26 dB       | 5710.000        | 40.000000               | PASS   |
| Power Spectral Density         | 5710.000        | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99% | 5710.000        | 40.000000               | PASS   |

### Emission Bandwidth 26 dB (5500 MHz; 24.000 dBm; 20 MHz)

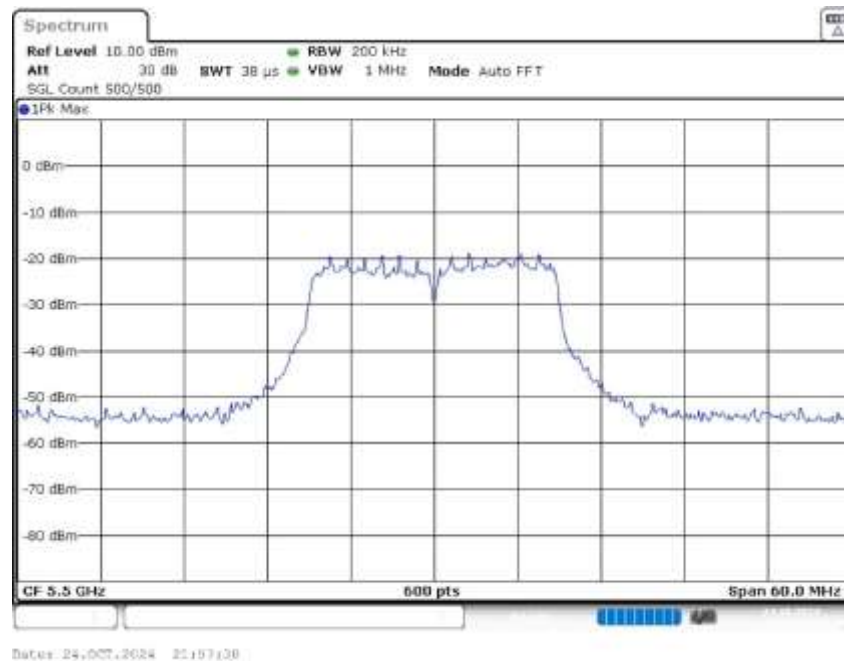
#### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5500.000000         | 22.200000       | ---             | ---             | 5489.050000          | 5511.250000           |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5500.000000         | -1.5            | PASS   |



Bandwidth



## Measurement

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| Start Frequency | 5.47000 GHz      | 5.47000 GHz    |
| Stop Frequency  | 5.53000 GHz      | 5.53000 GHz    |
| Span            | 60.000 MHz       | 60.000 MHz     |
| RBW             | 200.000 kHz      | ~ 200.000 kHz  |
| VBW             | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints     | 600              | ~ 600          |
| Sweptime        | 37.969 $\mu$ s   | AUTO           |
| Reference Level | 10.000 dBm       | 10.000 dBm     |

|             |           |          |
|-------------|-----------|----------|
| Attenuation | 30.000 dB | AUTO     |
| Detector    | MaxPeak   | MaxPeak  |
| SweepCount  | 500       | 500      |
| Filter      | 3 dB      | 3 dB     |
| Trace Mode  | Max Hold  | Max Hold |
| SweepType   | FFT       | AUTO     |
| Preamp      | off       | off      |

## RF output power (5500 MHz; 24.000 dBm; 20 MHz)

### Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---------------------|-----------------|-----------------|------------------|---------------|--------|
| 5500.000000         | 12.5            | 24.0            | 12.5             | 93.433        | PASS   |

### OSP PowerMeter settings

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Measurement Time | 1.000 s          | 1.000 s       |
| Points           | 1000000          | 1000000       |
| Time resolution  | 1.000 $\mu$ s    | 1.000 $\mu$ s |

## Power Spectral Density (5500 MHz; 24.000 dBm; 20 MHz)

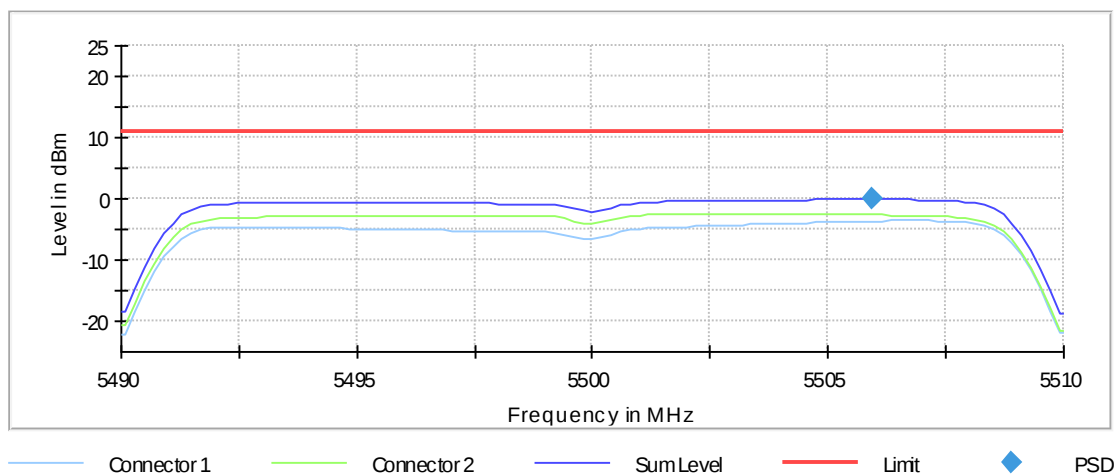
### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5500.000000         | 5505.940594     | -0.067    | 11.0            | PASS   |

### Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

Power Spectral Density



## Measurement

| Setting         | Instrument Value | Target Value  |
|-----------------|------------------|---------------|
| Start Frequency | 5.49000 GHz      | 5.49000 GHz   |
| Stop Frequency  | 5.51000 GHz      | 5.51000 GHz   |
| Span            | 20.000 MHz       | 20.000 MHz    |
| RBW             | 1.000 MHz        | <= 1.000 MHz  |
| VBW             | 3.000 MHz        | >= 3.000 MHz  |
| SweepPoints     | 101              | ~ 40          |
| SweepTime       | 2.020 ms         | 2.020 ms      |
| Reference Level | 0.000 dBm        | 0.000 dBm     |
| Attenuation     | 20.000 dB        | AUTO          |
| Detector        | RMS              | RMS           |
| SweepCount      | 100              | 100           |
| Filter          | 3 dB             | 3 dB          |
| Trace Mode      | Average Power    | Average Power |
| SweepType       | FFT              | AUTO          |
| Preamp          | off              | off           |

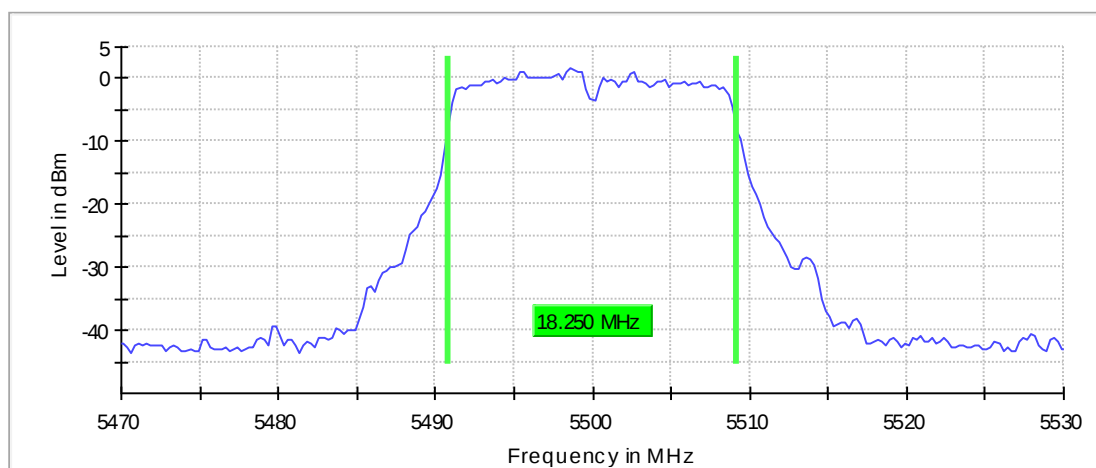
## Occupied Channel Bandwidth 99% (5500 MHz; 24.000 dBm; 20 MHz)

### 99 % Bandwidth

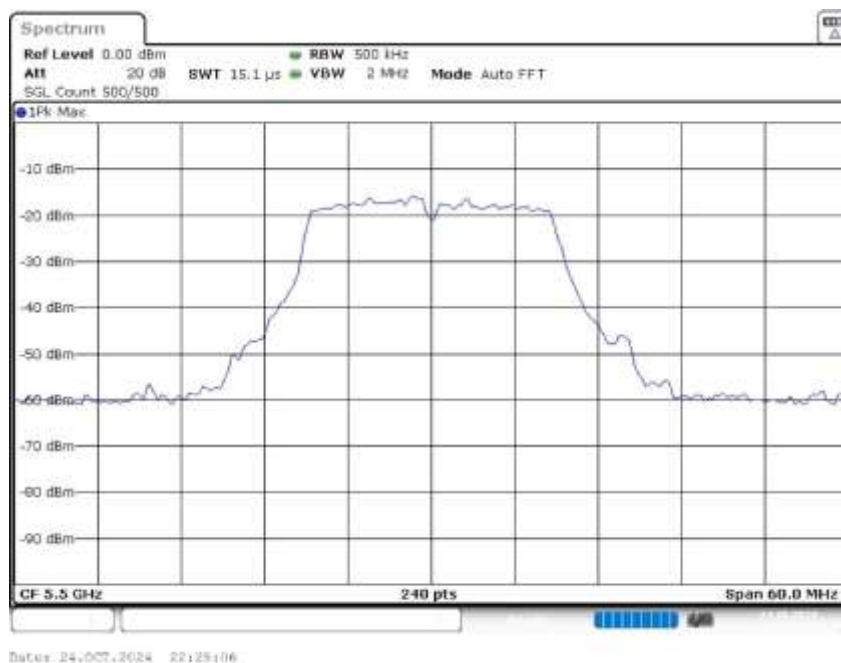
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5500.000000         | 18.250000       | ---             | ---             | 5490.875000          | 5509.125000           |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5500.000000         | PASS   |

99 %Bandwidth



Bandwidth



## Measurement

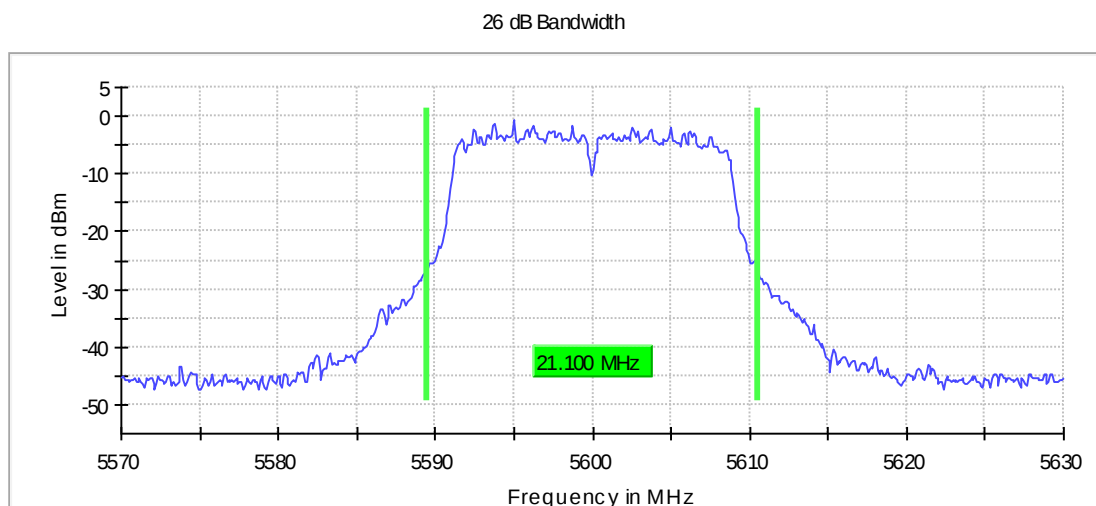
| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| Start Frequency | 5.47000 GHz      | 5.47000 GHz    |
| Stop Frequency  | 5.53000 GHz      | 5.53000 GHz    |
| Span            | 60.000 MHz       | 60.000 MHz     |
| RBW             | 500.000 kHz      | >= 500.000 kHz |
| VBW             | 2.000 MHz        | >= 1.500 MHz   |
| SweepPoints     | 240              | ~ 240          |
| Sweptime        | 15.125 $\mu$ s   | AUTO           |
| Reference Level | 0.000 dBm        | 0.000 dBm      |
| Attenuation     | 20.000 dB        | AUTO           |
| Detector        | MaxPeak          | MaxPeak        |
| SweepCount      | 500              | 500            |
| Filter          | 3 dB             | 3 dB           |
| Trace Mode      | Max Hold         | Max Hold       |
| Sweeptype       | FFT              | AUTO           |
| Preamp          | off              | off            |

## Emission Bandwidth 26 dB (5600 MHz; 24.000 dBm; 20 MHz)

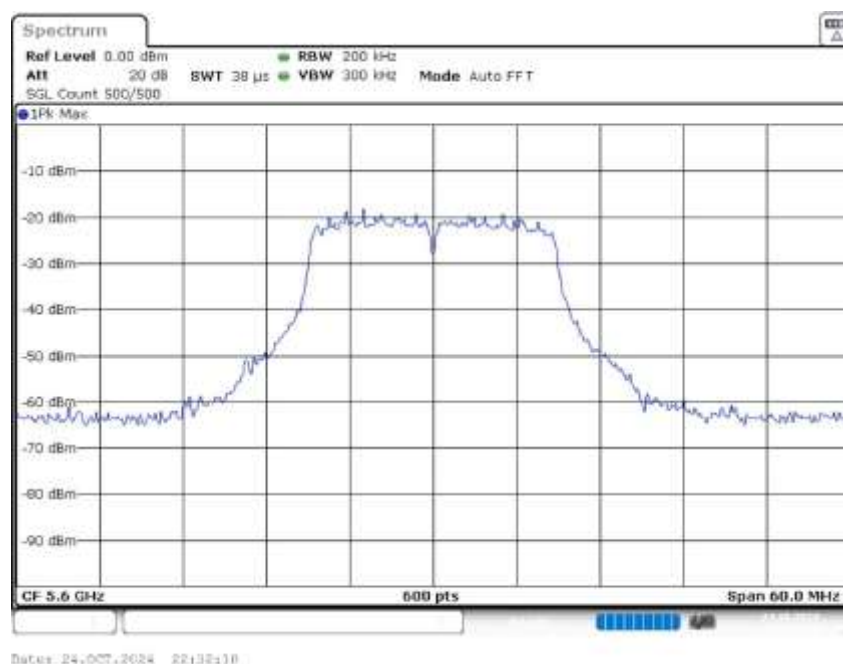
### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5600.000000         | 21.100000       | ---             | ---             | 5589.450000          | 5610.550000           |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5600.000000         | -0.8            | PASS   |



Bandwidth



**Power Spectral Density (5600 MHz; 24.000 dBm; 20 MHz)**

**Result**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5600.000000         | 5593.861386     | -0.095    | 11.0            | PASS   |

## Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

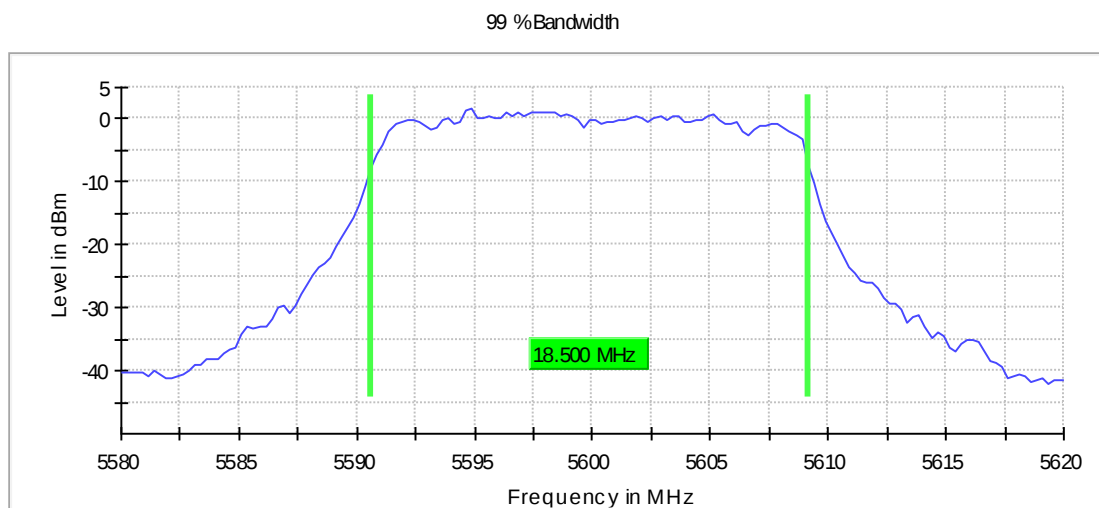


**Occupied Channel Bandwidth 99% (5600 MHz; 24.000 dBm; 20 MHz)**

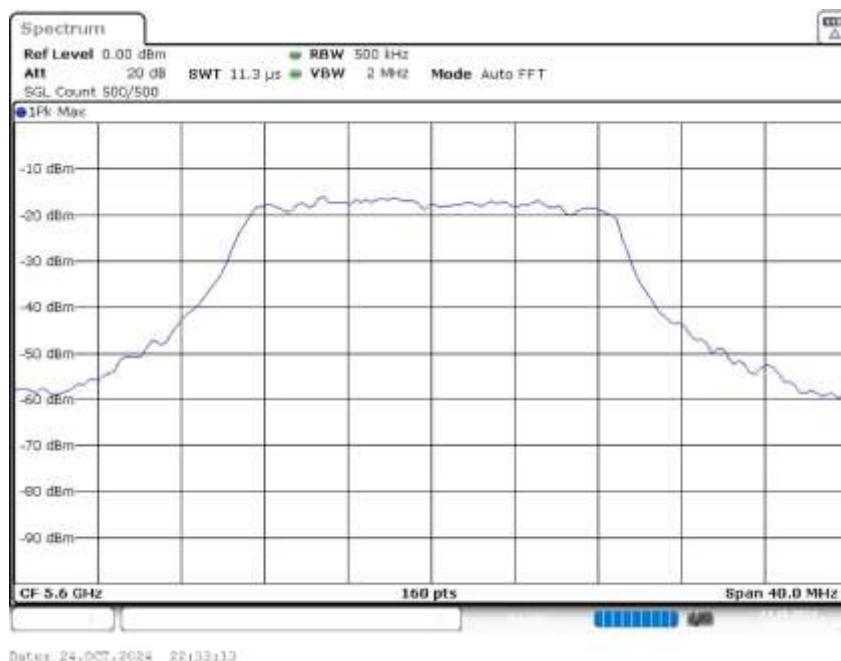
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5600.000000         | 18.500000       | ---             | ---             | 5590.625000          | 5609.125000           |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5600.000000         | PASS   |



## Bandwidth



## Measurement

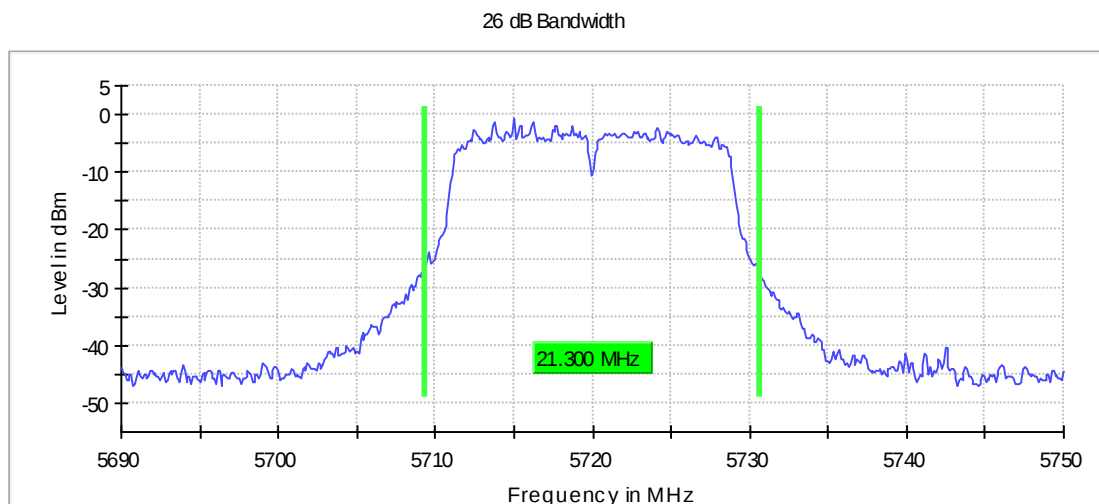
| Setting         | Instrument Value | Target Value       |
|-----------------|------------------|--------------------|
| Start Frequency | 5.58000 GHz      | 5.58000 GHz        |
| Stop Frequency  | 5.62000 GHz      | 5.62000 GHz        |
| Span            | 40.000 MHz       | 40.000 MHz         |
| RBW             | 500.000 kHz      | $\geq$ 500.000 kHz |
| VBW             | 2.000 MHz        | $\geq$ 1.500 MHz   |
| SweepPoints     | 160              | $\sim$ 160         |
| SweepTime       | 11.344 $\mu$ s   | AUTO               |
| Reference Level | 0.000 dBm        | 0.000 dBm          |
| Attenuation     | 20.000 dB        | AUTO               |
| Detector        | MaxPeak          | MaxPeak            |
| SweepCount      | 500              | 500                |
| Filter          | 3 dB             | 3 dB               |
| Trace Mode      | Max Hold         | Max Hold           |
| SweepType       | FFT              | AUTO               |
| Preamp          | off              | off                |

## Emission Bandwidth 26 dB (5720 MHz; 24.000 dBm; 20 MHz)

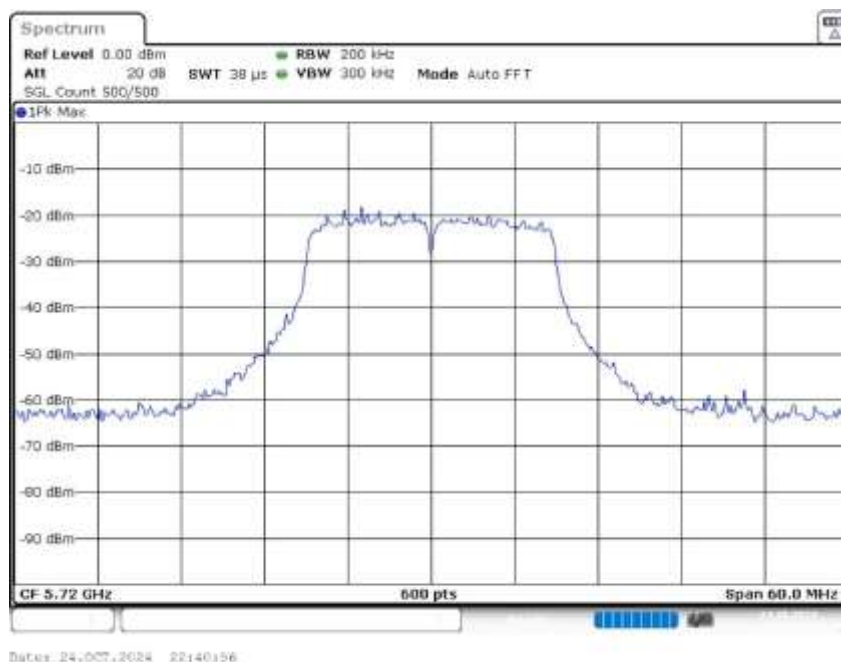
### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|--------------------------|-------------------------|-----------------|-----------------|
| 5720.000000         | 21.300000       | 15.650000                | 5.650000                | ---             | ---             |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) | Result |
|---------------------|----------------------|-----------------------|-----------------|--------|
| 5720.000000         | 5709.350000          | 5730.650000           | -0.5            | PASS   |



Bandwidth



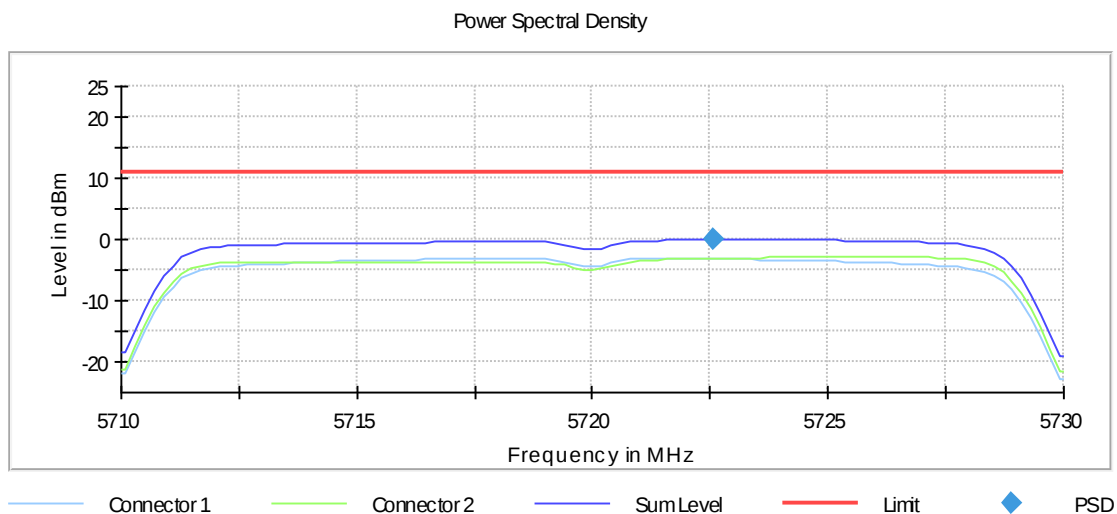
**Power Spectral Density (5720 MHz; 24.000 dBm; 20 MHz)**

**Result**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5720.000000         | 5722.574257     | -0.102    | 11.0            | PASS   |

## Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

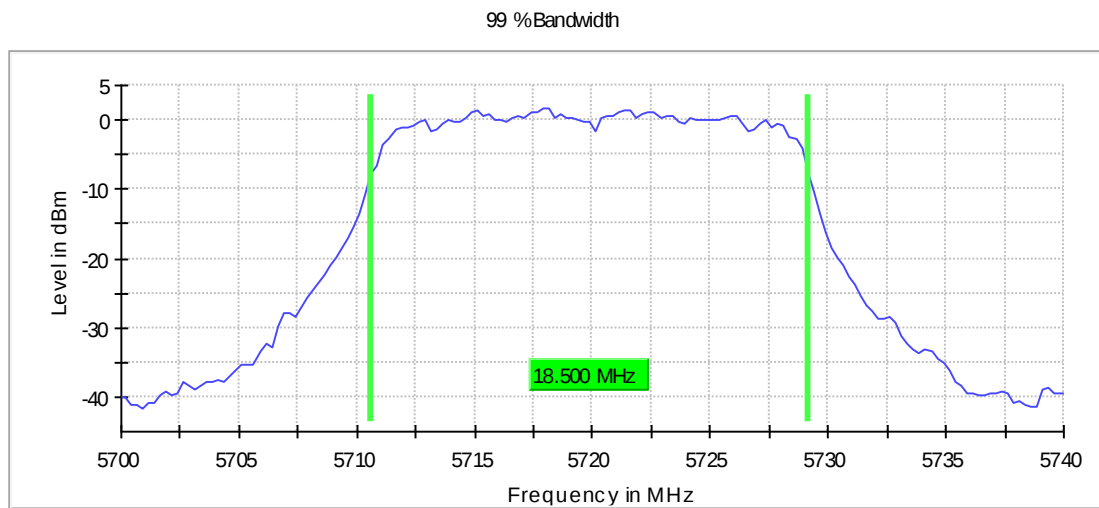


**Occupied Channel Bandwidth 99% (5720 MHz; 24.000 dBm; 20 MHz)**

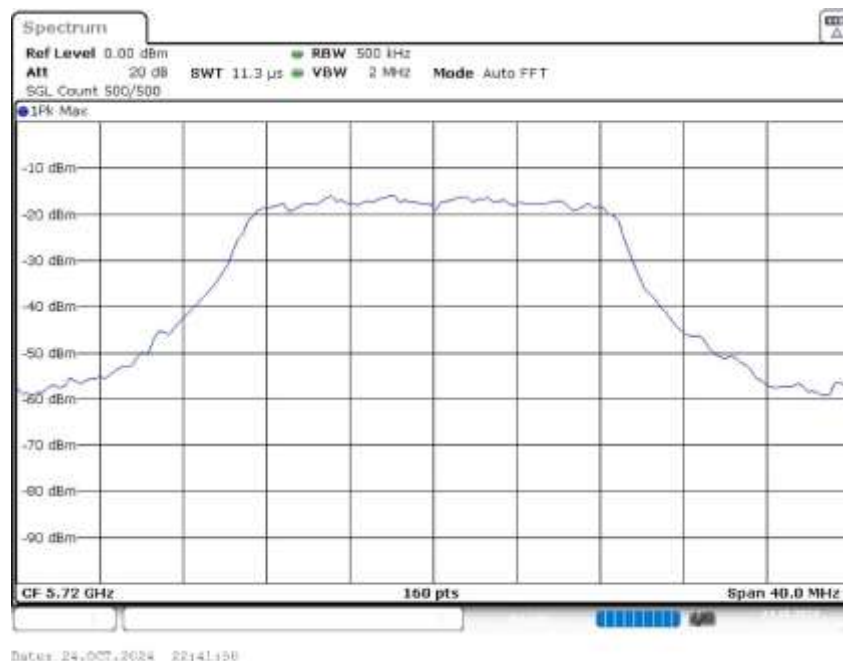
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|--------------------------|-------------------------|-----------------|-----------------|
| 5720.000000         | 18.500000       | 14.375000                | 4.125000                | ---             | ---             |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|----------------------|-----------------------|--------|
| 5720.000000         | 5710.625000          | 5729.125000           | PASS   |



Bandwidth



## Measurement

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| Start Frequency | 5.70000 GHz      | 5.70000 GHz    |
| Stop Frequency  | 5.74000 GHz      | 5.74000 GHz    |
| Span            | 40.000 MHz       | 40.000 MHz     |
| RBW             | 500.000 kHz      | >= 500.000 kHz |
| VBW             | 2.000 MHz        | >= 1.500 MHz   |
| SweepPoints     | 160              | ~ 160          |
| Sweptime        | 11.344 $\mu$ s   | AUTO           |
| Reference Level | 0.000 dBm        | 0.000 dBm      |

|             |           |          |
|-------------|-----------|----------|
| Attenuation | 20.000 dB | AUTO     |
| Detector    | MaxPeak   | MaxPeak  |
| SweepCount  | 500       | 500      |
| Filter      | 3 dB      | 3 dB     |
| Trace Mode  | Max Hold  | Max Hold |
| SweepType   | FFT       | AUTO     |
| Preamp      | off       | off      |

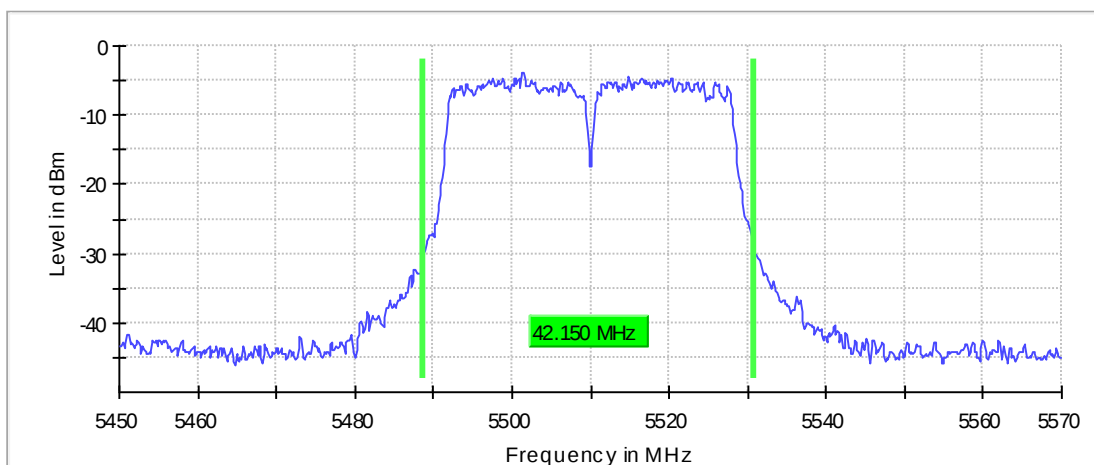
## Emission Bandwidth 26 dB (5510 MHz; 24.000 dBm; 40 MHz)

### 26 dB Bandwidth

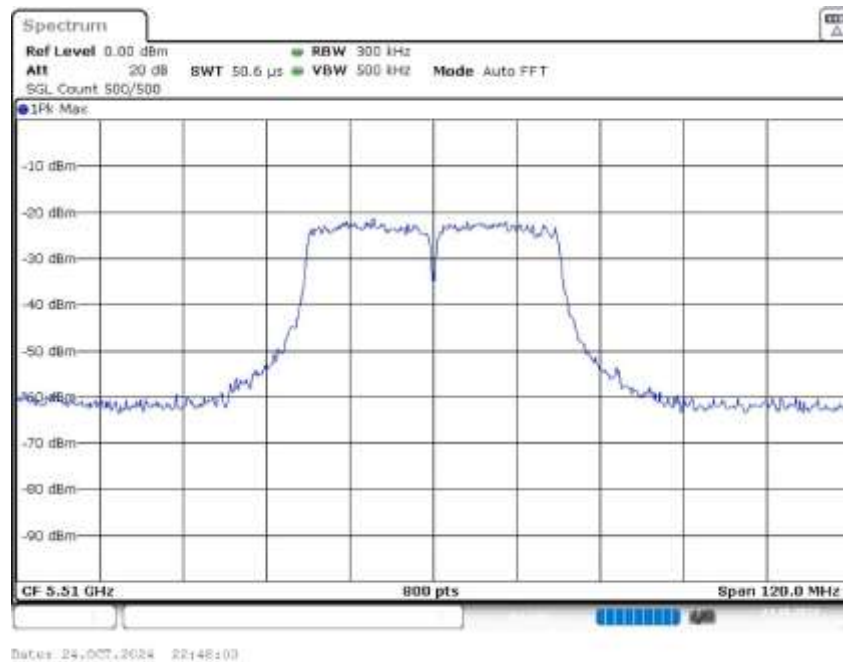
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5510.000000         | 42.150000       | ---             | ---             | 5488.775000          | 5530.925000           |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5510.000000         | -3.9            | PASS   |

26 dB Bandwidth



Bandwidth



## Power Spectral Density (5510 MHz; 24.000 dBm; 40 MHz)

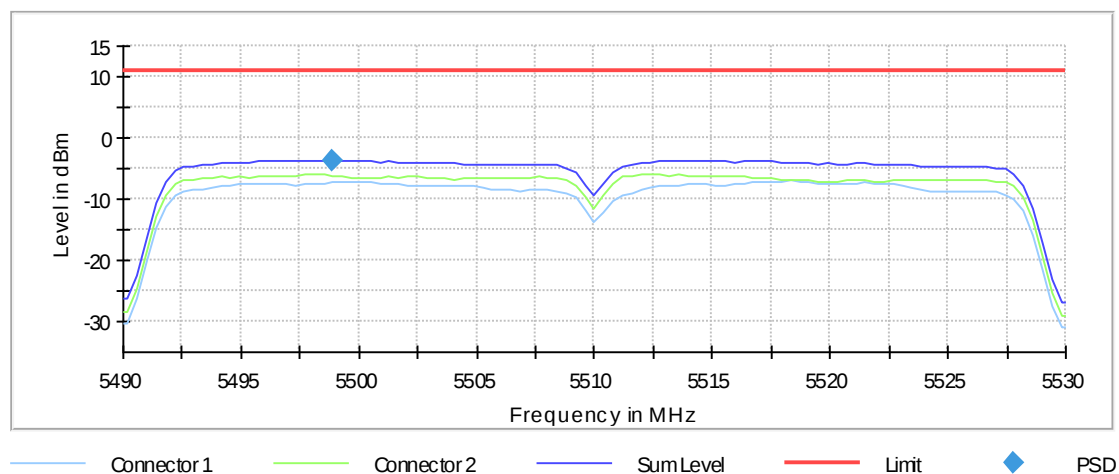
### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5510.000000         | 5498.910891     | -3.693    | 11.0            | PASS   |

### Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

Power Spectral Density



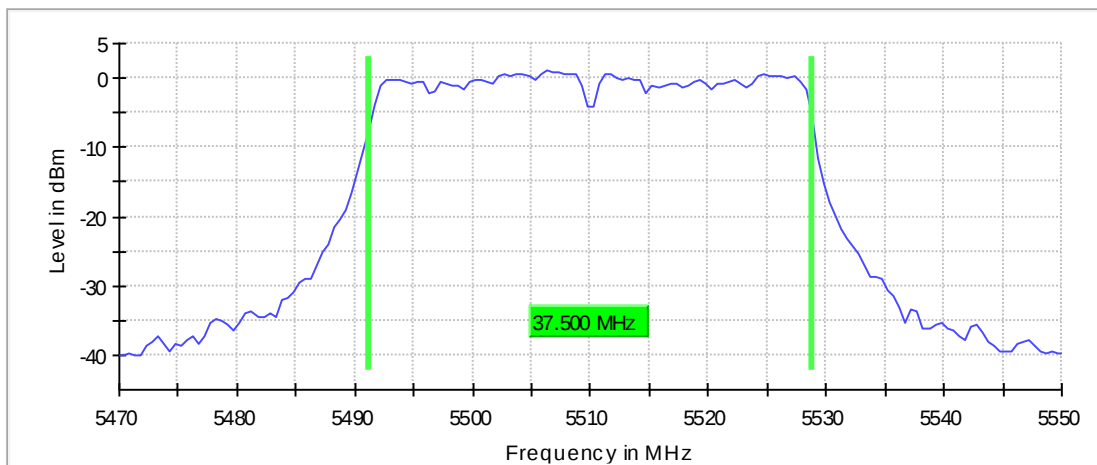
## Occupied Channel Bandwidth 99% (5510 MHz; 24.000 dBm; 40 MHz)

### 99 % Bandwidth

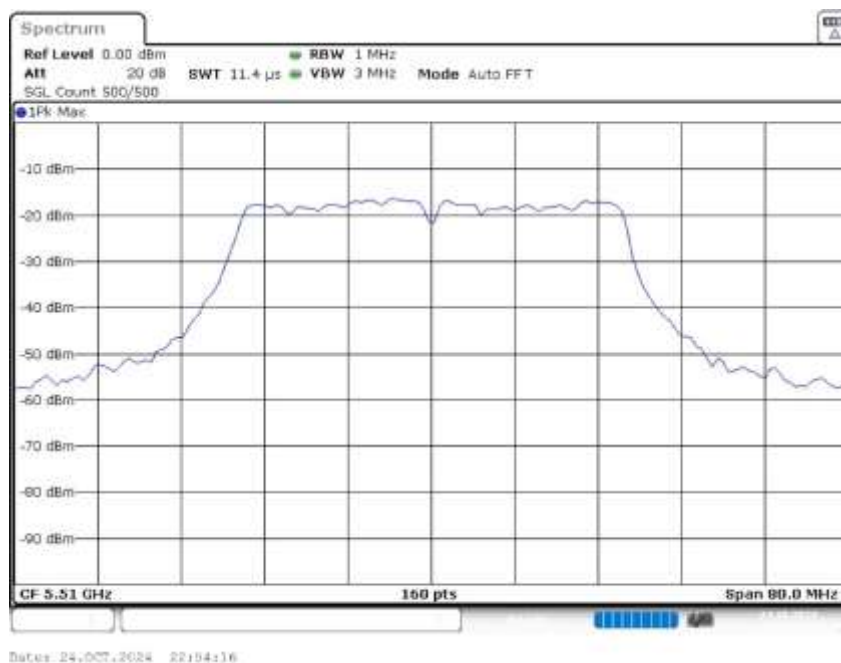
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5510.000000         | 37.500000       | ---             | ---             | 5491.250000          | 5528.750000           |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5510.000000         | PASS   |

99 %Bandwidth



Bandwidth



## Measurement

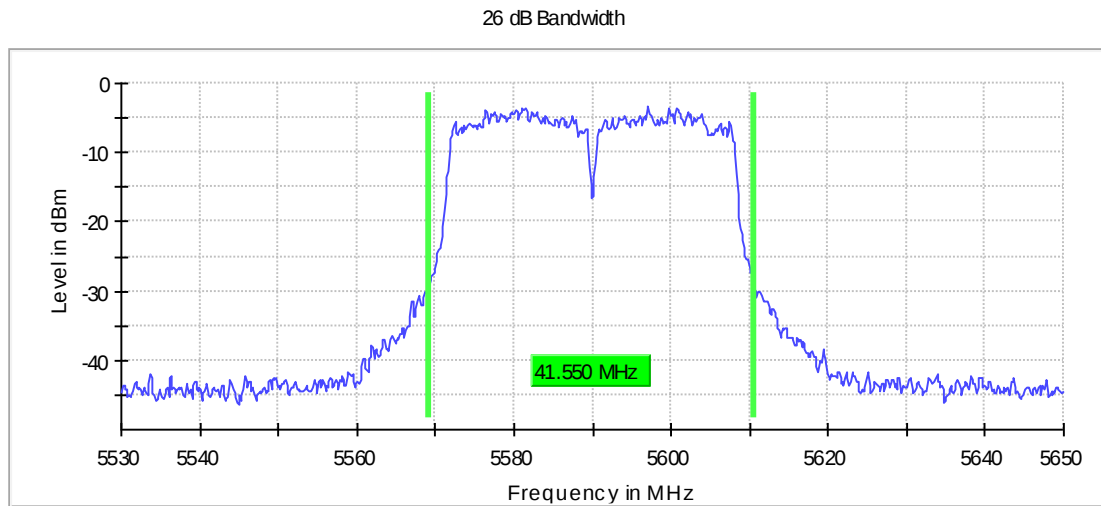
| Setting         | Instrument Value | Target Value |
|-----------------|------------------|--------------|
| Start Frequency | 5.47000 GHz      | 5.47000 GHz  |
| Stop Frequency  | 5.55000 GHz      | 5.55000 GHz  |
| Span            | 80.000 MHz       | 80.000 MHz   |
| RBW             | 1.000 MHz        | >= 1.000 MHz |
| VBW             | 3.000 MHz        | >= 3.000 MHz |
| SweepPoints     | 160              | ~ 160        |
| Sweptime        | 11.438 $\mu$ s   | AUTO         |
| Reference Level | 0.000 dBm        | 0.000 dBm    |
| Attenuation     | 20.000 dB        | AUTO         |
| Detector        | MaxPeak          | MaxPeak      |
| SweepCount      | 500              | 500          |
| Filter          | 3 dB             | 3 dB         |
| Trace Mode      | Max Hold         | Max Hold     |
| Sweeptype       | FFT              | AUTO         |
| Preamp          | off              | off          |

## Emission Bandwidth 26 dB (5590 MHz; 24.000 dBm; 40 MHz)

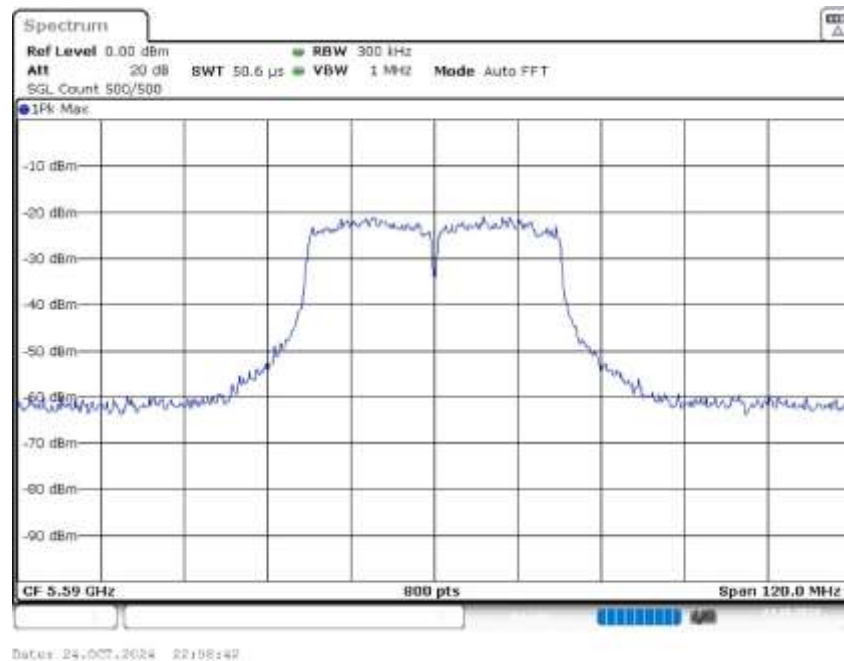
### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5590.000000         | 41.550000       | ---             | ---             | 5569.075000          | 5610.625000           |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 5590.000000         | -3.4            | PASS   |



Bandwidth



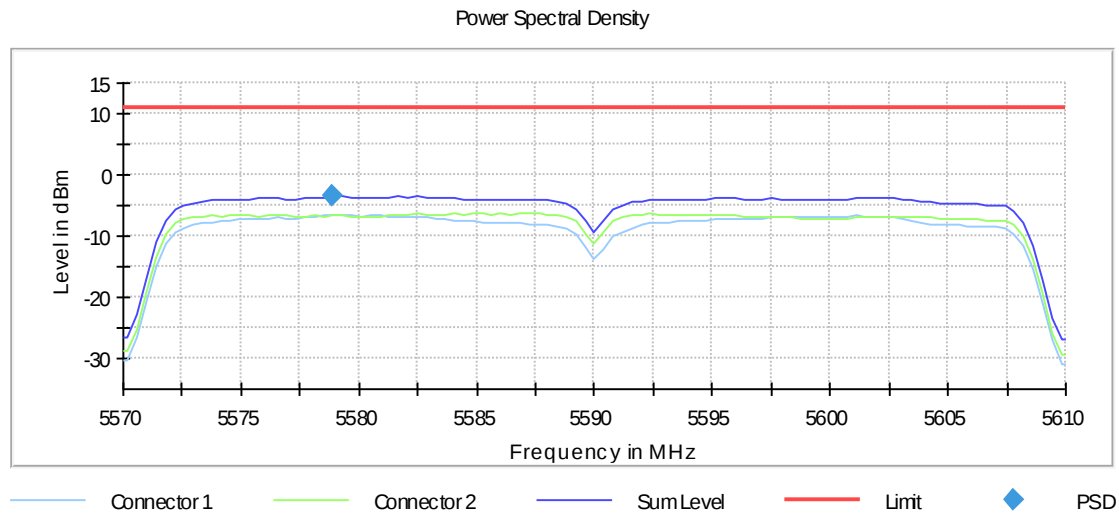
**Power Spectral Density (5590 MHz; 24.000 dBm; 40 MHz)**

**Result**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5590.000000         | 5578.910891     | -3.572    | 11.0            | PASS   |

## Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

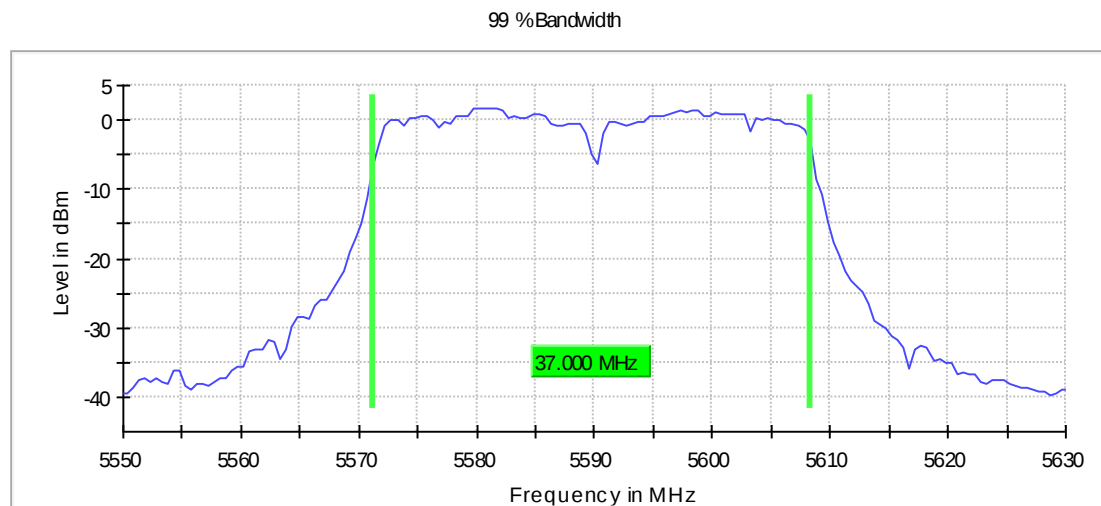


**Occupied Channel Bandwidth 99% (5590 MHz; 24.000 dBm; 40 MHz)**

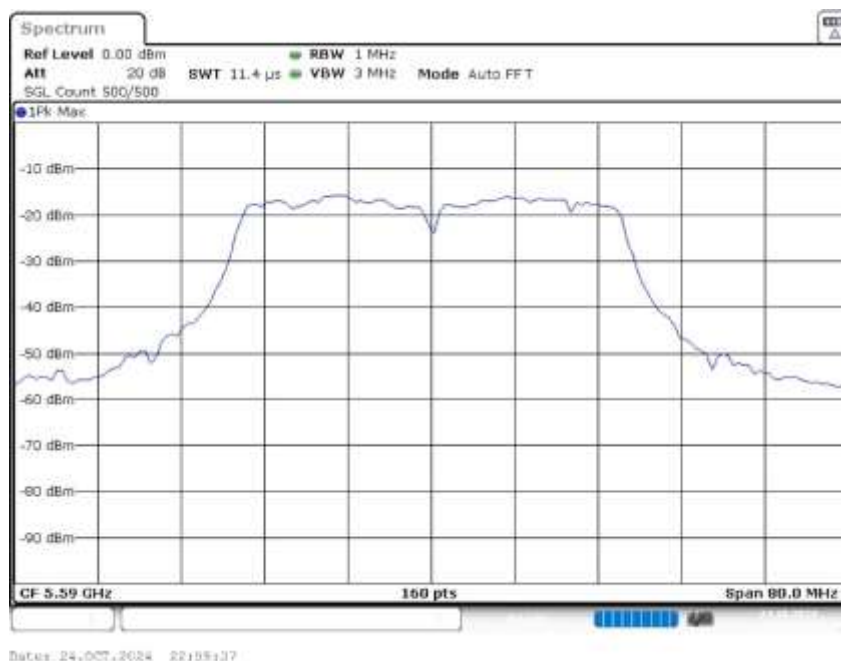
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 5590.000000         | 37.000000       | ---             | ---             | 5571.250000          | 5608.250000           |

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 5590.000000         | PASS   |



## Bandwidth



## Measurement

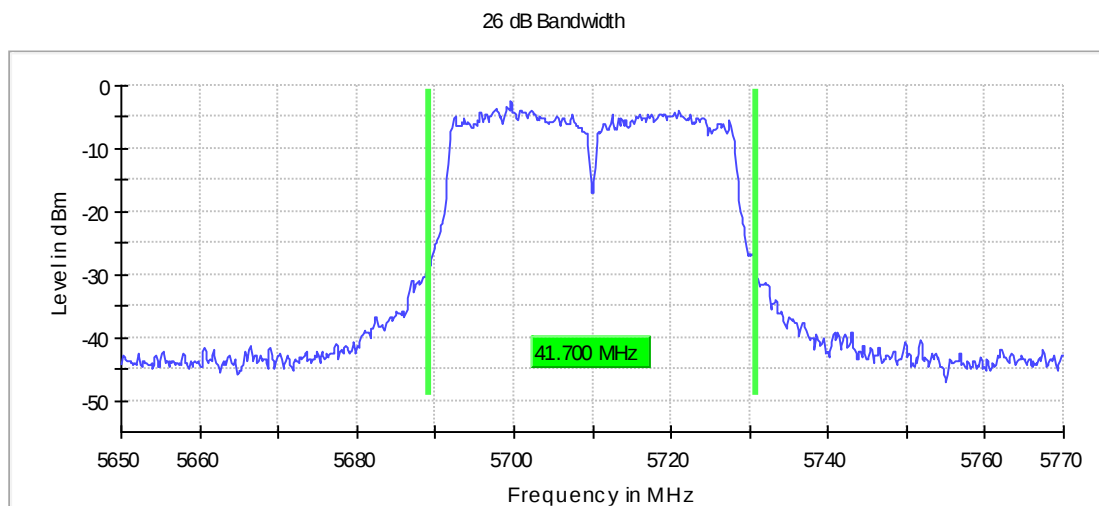
| Setting         | Instrument Value | Target Value |
|-----------------|------------------|--------------|
| Start Frequency | 5.55000 GHz      | 5.55000 GHz  |
| Stop Frequency  | 5.63000 GHz      | 5.63000 GHz  |
| Span            | 80.000 MHz       | 80.000 MHz   |
| RBW             | 1.000 MHz        | >= 1.000 MHz |
| VBW             | 3.000 MHz        | >= 3.000 MHz |
| SweepPoints     | 160              | ~ 160        |
| SweepTime       | 11.438 $\mu$ s   | AUTO         |
| Reference Level | 0.000 dBm        | 0.000 dBm    |
| Attenuation     | 20.000 dB        | AUTO         |
| Detector        | MaxPeak          | MaxPeak      |
| SweepCount      | 500              | 500          |
| Filter          | 3 dB             | 3 dB         |
| Trace Mode      | Max Hold         | Max Hold     |
| SweepType       | FFT              | AUTO         |
| Preamp          | off              | off          |

## Emission Bandwidth 26 dB (5710 MHz; 24.000 dBm; 40 MHz)

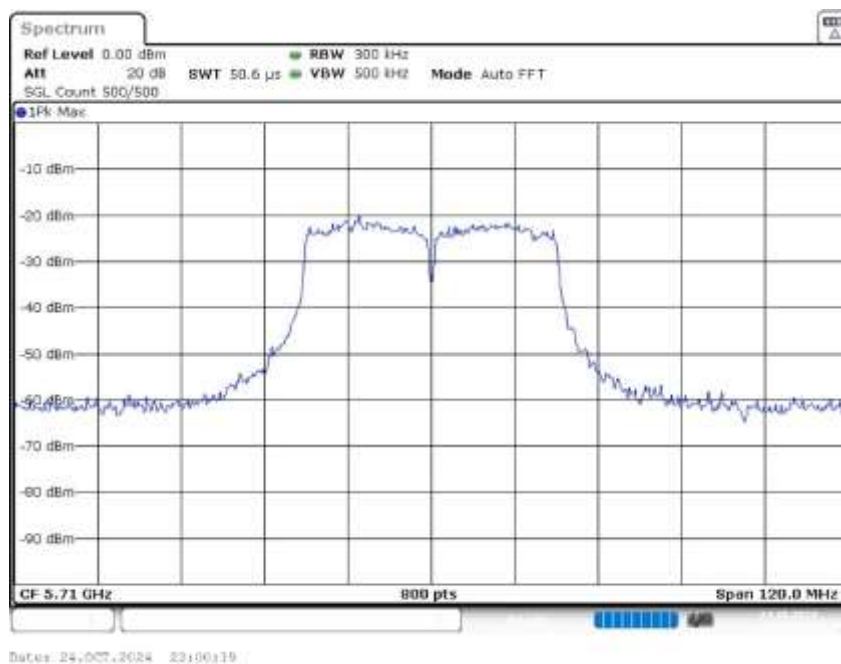
### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|--------------------------|-------------------------|-----------------|-----------------|
| 5710.000000         | 41.700000       | 35.925000                | 5.775000                | ---             | ---             |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) | Result |
|---------------------|----------------------|-----------------------|-----------------|--------|
| 5710.000000         | 5689.075000          | 5730.775000           | -2.6            | PASS   |



Bandwidth



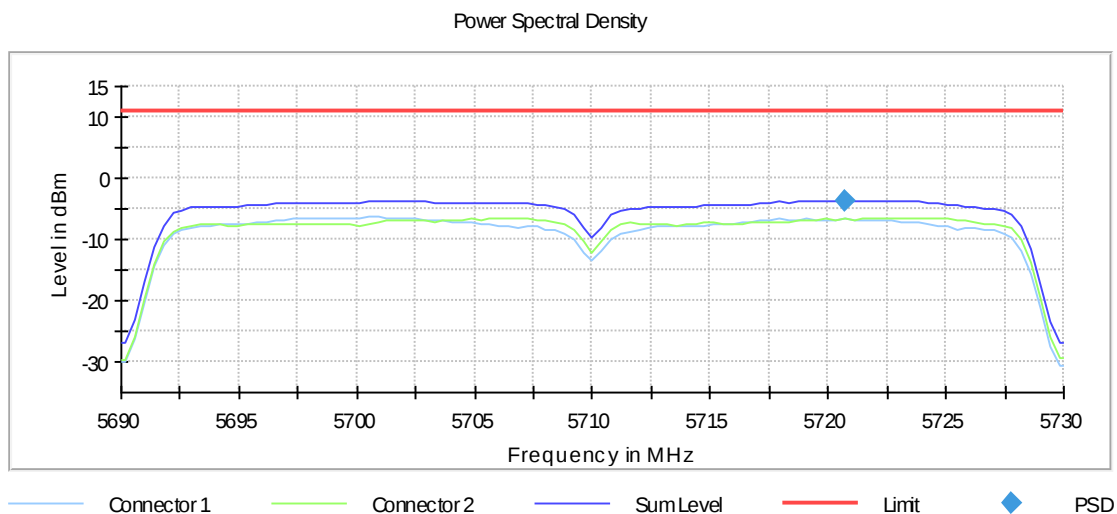
**Power Spectral Density (5710 MHz; 24.000 dBm; 40 MHz)**

**Result**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 5710.000000         | 5720.693069     | -3.658    | 11.0            | PASS   |

## Ports

| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

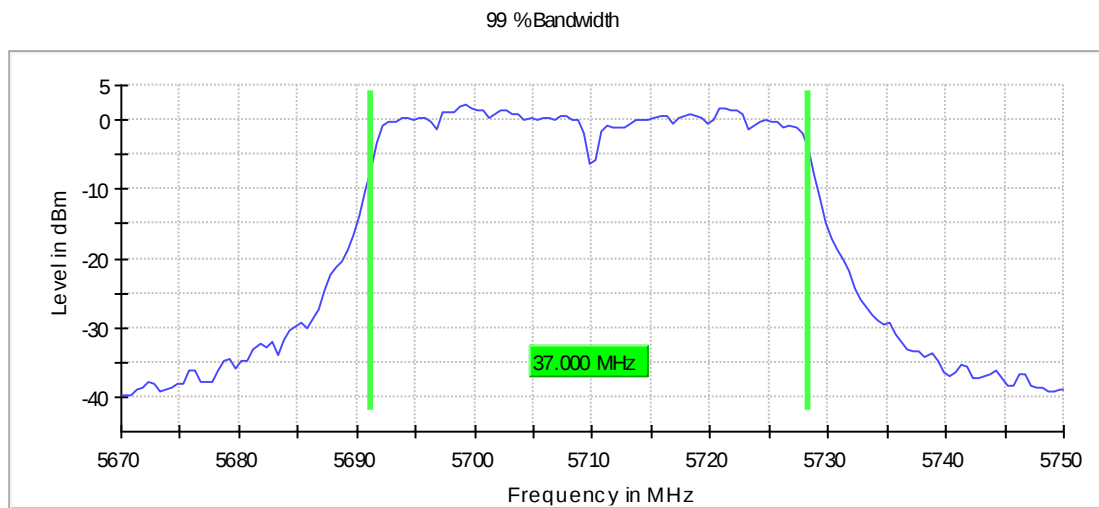


**Occupied Channel Bandwidth 99% (5710 MHz; 24.000 dBm; 40 MHz)**

## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|--------------------------|-------------------------|-----------------|-----------------|
| 5710.000000         | 37.000000       | 33.750000                | 3.250000                | ---             | ---             |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---------------------|----------------------|-----------------------|--------|
| 5710.000000         | 5691.250000          | 5728.250000           | PASS   |



## Measurement

| Setting         | Instrument Value | Target Value     |
|-----------------|------------------|------------------|
| Start Frequency | 5.67000 GHz      | 5.67000 GHz      |
| Stop Frequency  | 5.75000 GHz      | 5.75000 GHz      |
| Span            | 80.000 MHz       | 80.000 MHz       |
| RBW             | 1.000 MHz        | $\geq 1.000$ MHz |
| VBW             | 3.000 MHz        | $\geq 3.000$ MHz |
| SweepPoints     | 160              | ~ 160            |
| SweepTime       | 11.438 $\mu$ s   | AUTO             |
| Reference Level | 0.000 dBm        | 0.000 dBm        |
| Attenuation     | 20.000 dB        | AUTO             |
| Detector        | MaxPeak          | MaxPeak          |
| SweepCount      | 500              | 500              |
| Filter          | 3 dB             | 3 dB             |
| Trace Mode      | Max Hold         | Max Hold         |
| SweepType       | FFT              | AUTO             |
| Preamp          | off              | off              |

**-- End of Report--**