



427 West 12800 South  
Draper, UT 84020

## Test Report Attachment

|                                  |                  |
|----------------------------------|------------------|
| <b>FCC ID</b>                    | SWX-UX7          |
| <b>ISED ID</b>                   | 6545A-UX7        |
| <b>Equipment Under Test</b>      | UX7              |
| <b>Test Report Serial Number</b> | TR9579_02        |
| <b>Date of Test</b>              | 19 November 2024 |
| <b>Report Issue Date</b>         | 2 December 2024  |

## 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.



# 1 UNII-6

## Summary

| Test                                              | Frequency (MHz) | Nominal Power (dBm) | Nominal Bandwidth (MHz) | Result |
|---------------------------------------------------|-----------------|---------------------|-------------------------|--------|
| Emission Bandwidth 26 dB                          | 6435.000        | 24.0                | 20.000000               | PASS   |
| RF output power                                   | 6435.000        | 24.0                | 20.000000               | PASS   |
| In-Band Emissions                                 | 6435.000        | 24.0                | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6435.000        | 24.0                | 20.000000               | PASS   |
| Frequency Stability                               | 6435.000        | 24.0                | 20.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6475.000        | 24.0                | 20.000000               | PASS   |
| In-Band Emissions                                 | 6475.000        | 24.0                | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6475.000        | 24.0                | 20.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6515.000        | 24.0                | 20.000000               | PASS   |
| In-Band Emissions                                 | 6515.000        | 24.0                | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6515.000        | 24.0                | 20.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6445.000        | 24.0                | 40.000000               | PASS   |
| In-Band Emissions                                 | 6445.000        | 24.0                | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6445.000        | 24.0                | 40.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6485.000        | 24.0                | 40.000000               | PASS   |
| In-Band Emissions                                 | 6485.000        | 24.0                | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6485.000        | 24.0                | 40.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6465.000        | 24.0                | 80.000000               | PASS   |
| In-Band Emissions                                 | 6465.000        | 24.0                | 80.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6465.000        | 24.0                | 80.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6505.000        | 24.0                | 160.000000              | PASS   |
| In-Band Emissions                                 | 6505.000        | 24.0                | 160.000000              | PASS   |
| Occupied Channel Bandwidth 99%                    | 6505.000        | 24.0                | 160.000000              | PASS   |
| Tx Spurious Emission                              | 6505.000        | 24.0                | 160.000000              | PASS   |
| Emissions in restricted frequency bands (Average) | 6505.000        | 24.0                | 160.000000              | PASS   |
| Emissions in restricted frequency bands (Peak)    | 6505.000        | 24.0                | 160.000000              | PASS   |

## Emission Bandwidth 26 dB (6435 MHz; 24.000 dBm; 20 MHz)

Customized settings.

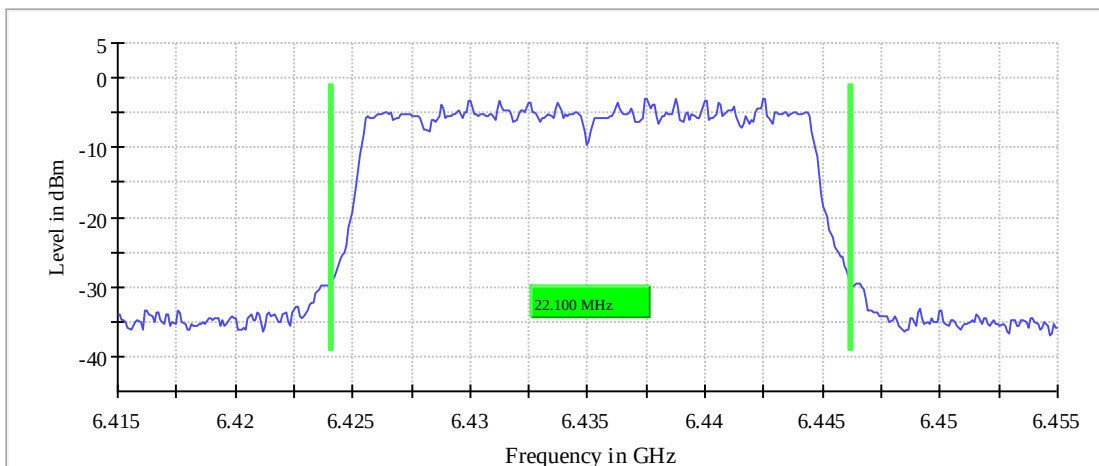
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6435.000000         | 22.100000       | ---             | 320.000000      | 6424.050000          | ---            |

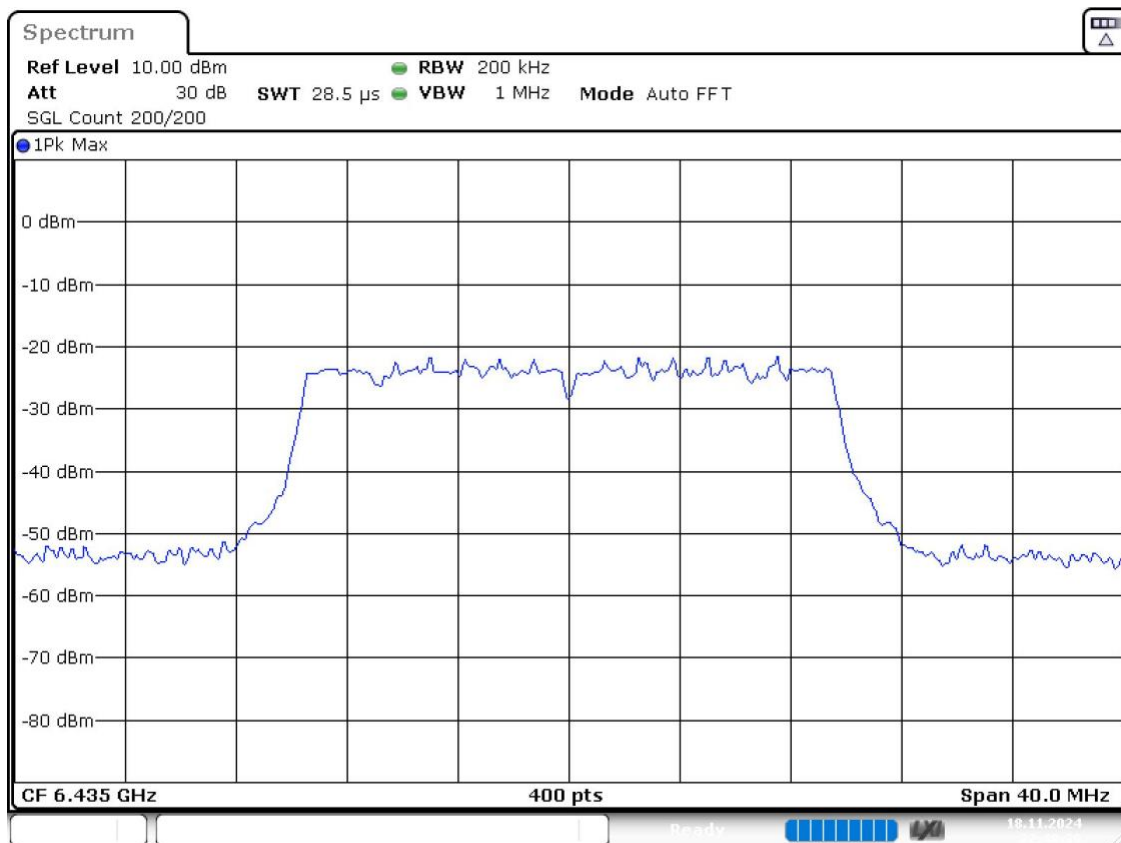
(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6435.000000         | 6446.150000           | ---                  | -2.9            | PASS   |

26 dB Bandwidth



Bandwidth



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## Measurement

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| Start Frequency | 6.41500 GHz      | 6.41500 GHz    |
| Stop Frequency  | 6.45500 GHz      | 6.45500 GHz    |
| Span            | 40.000 MHz       | 40.000 MHz     |
| RBW             | 200.000 kHz      | ~ 200.000 kHz  |
| VBW             | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints     | 400              | ~ 400          |
| SweepTime       | 28.477 $\mu$ s   | AUTO           |
| Reference Level | 10.000 dBm       | 10.000 dBm     |
| Attenuation     | 30.000 dB        | AUTO           |
| Detector        | MaxPeak          | MaxPeak        |
| SweepCount      | 200              | 200            |
| Filter          | 3 dB             | 3 dB           |
| Trace Mode      | Max Hold         | Max Hold       |
| SweepType       | FFT              | AUTO           |
| Preamp          | off              | off            |

## RF output power (6435 MHz; 24.000 dBm; 20 MHz)

Customized settings.

## Result

| DUT Frequency (MHz) | Gated EIRP (dBm) | Limit Max (dBm) | Gated RMS (dBm) | DutyCycle (%) | Result |
|---------------------|------------------|-----------------|-----------------|---------------|--------|
| 6435.000000         | 12.0             | 24.0            | 12.0            | 99.730        | 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 |

## In-Band Emissions (6435 MHz; 24.000 dBm; 20 MHz)

Customized settings.

## Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6435.000000         | PASS   |

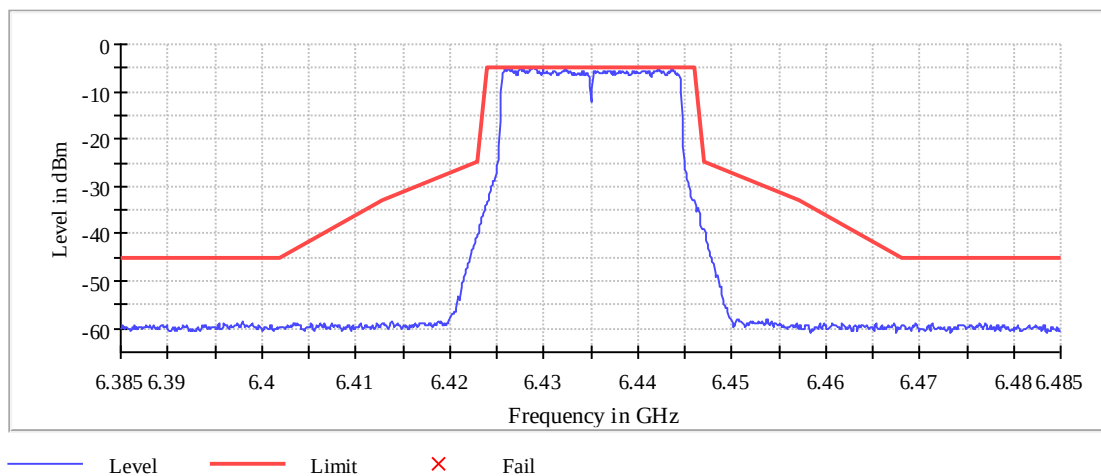
## Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6426.250000     | -4.9        |

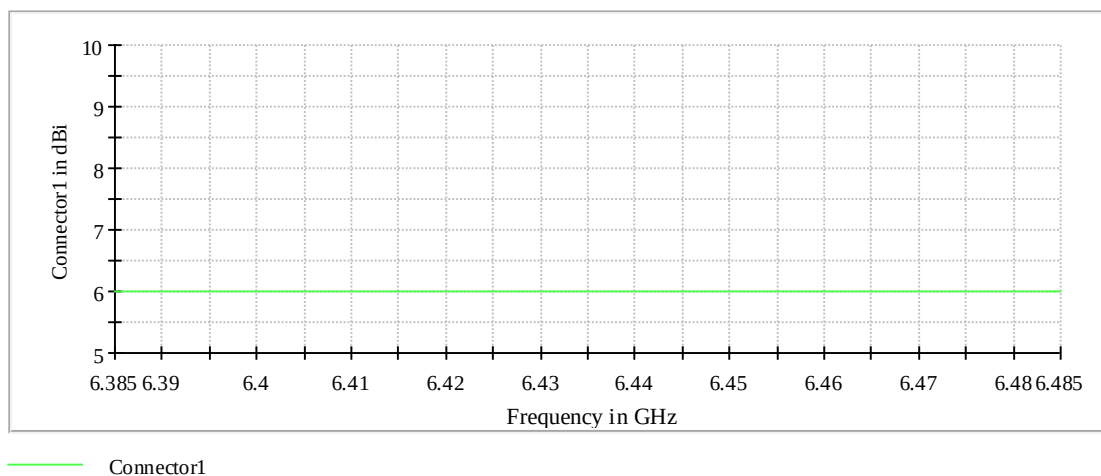
## Measurements

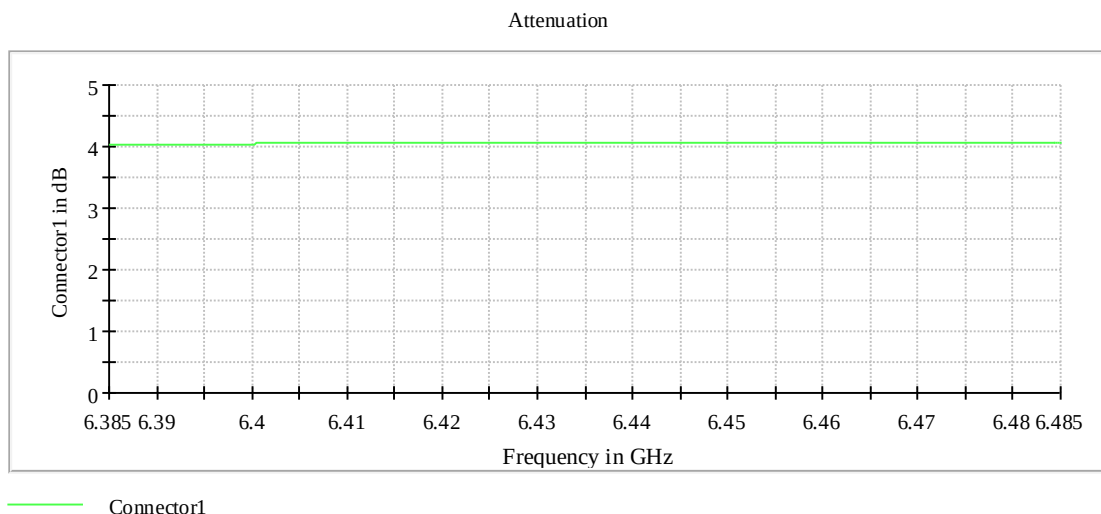
| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6426.250000     | -4.9        | 0.0         | -4.9        | PASS   |
| 6428.950000     | -5.0        | 0.1         | -4.9        | PASS   |
| 6432.350000     | -5.1        | 0.2         | -4.9        | PASS   |
| 6429.150000     | -5.1        | 0.2         | -4.9        | PASS   |
| 6428.850000     | -5.1        | 0.2         | -4.9        | PASS   |
| 6426.550000     | -5.1        | 0.2         | -4.9        | PASS   |
| 6427.550000     | -5.2        | 0.3         | -4.9        | PASS   |
| 6428.550000     | -5.2        | 0.3         | -4.9        | PASS   |
| 6426.150000     | -5.2        | 0.3         | -4.9        | PASS   |
| 6432.250000     | -5.2        | 0.3         | -4.9        | PASS   |
| 6427.650000     | -5.2        | 0.3         | -4.9        | PASS   |
| 6442.150000     | -5.2        | 0.3         | -4.9        | PASS   |
| 6425.850000     | -5.2        | 0.3         | -4.9        | PASS   |
| 6429.050000     | -5.2        | 0.3         | -4.9        | PASS   |
| 6428.650000     | -5.3        | 0.4         | -4.9        | PASS   |

In Band



Gain





## Measurement 1

| Setting         | Instrument Value | Target Value  |
|-----------------|------------------|---------------|
| Start Frequency | 6.38500 GHz      | 6.38500 GHz   |
| Stop Frequency  | 6.48500 GHz      | 6.48500 GHz   |
| Span            | 100.000 MHz      | 100.000 MHz   |
| RBW             | 200.000 kHz      | ~ 200.000 kHz |
| VBW             | 1.000 MHz        | ~ 800.000 kHz |
| SweepPoints     | 1000             | ~ 1000        |
| SweepTime       | 1.050 ms         | AUTO          |
| Reference Level | 0.000 dBm        | 0.000 dBm     |
| Attenuation     | 20.000 dB        | 20.000 dB     |
| Detector        | RMS              | RMS           |
| SweepCount      | 100              | 100           |
| Filter          | 3 dB             | 3 dB          |
| Trace Mode      | Average Power    | Average Power |
| SweepType       | Sweep            | Sweep         |
| Preamp          | off              | off           |

## Occupied Channel Bandwidth 99% (6435 MHz; 24.000 dBm; 20 MHz)

Customized settings.

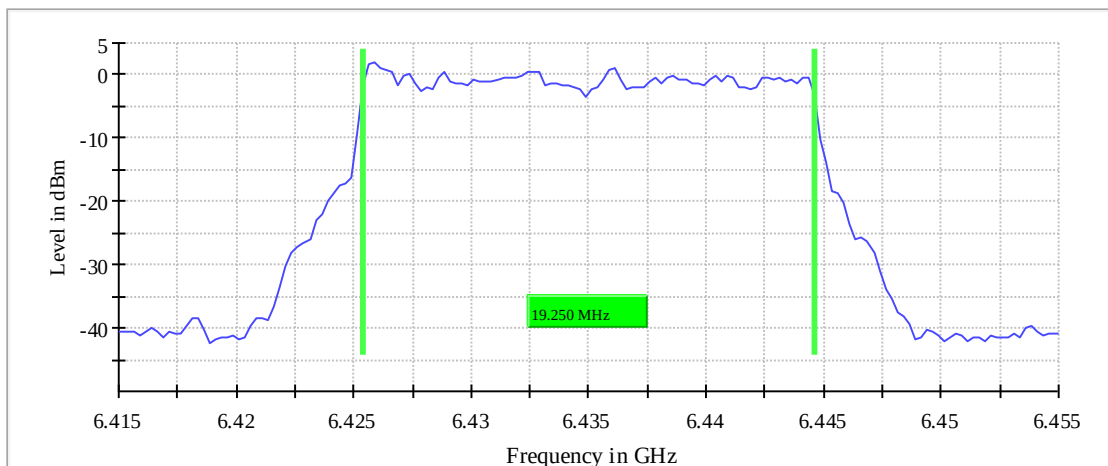
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6435.000000         | 19.250000       | ---             | 320.000000      | 6425.375000          | 5925.000000          |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6435.000000         | 6444.625000           | 7125.000000          | PASS   |

99 % Bandwidth



Bandwidth



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## Measurement

| Setting         | Instrument Value | Target Value       |
|-----------------|------------------|--------------------|
| Start Frequency | 6.41500 GHz      | 6.41500 GHz        |
| Stop Frequency  | 6.45500 GHz      | 6.45500 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              | ~ 160              |
| Sweptime        | 11.344 $\mu$ s   | AUTO               |
| Reference Level | 0.000 dBm        | 0.000 dBm          |
| Attenuation     | 20.000 dB        | AUTO               |
| Detector        | MaxPeak          | MaxPeak            |
| SweepCount      | 200              | 200                |
| Filter          | 3 dB             | 3 dB               |
| Trace Mode      | Max Hold         | Max Hold           |
| SweepType       | FFT              | AUTO               |
| Preamp          | off              | off                |

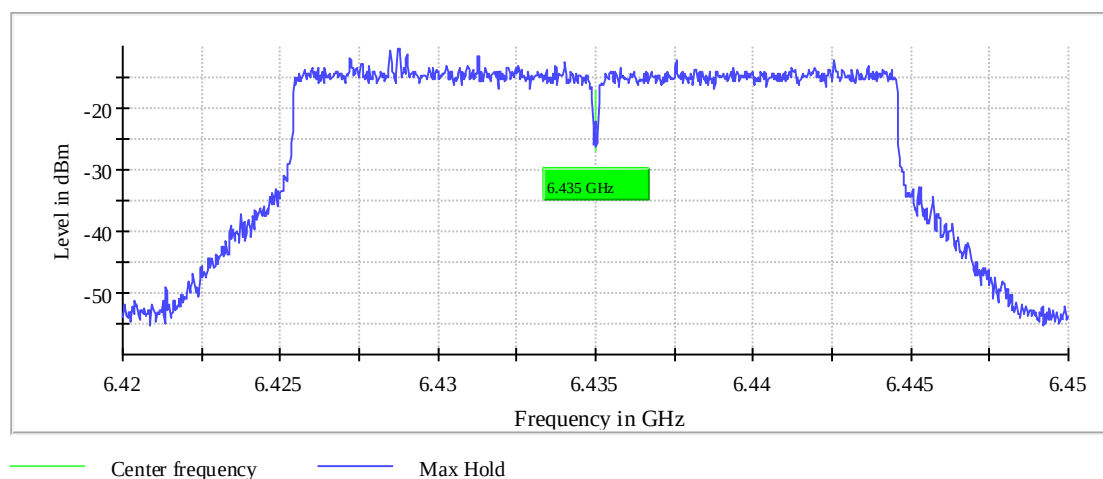
## Frequency Stability (6435 MHz; 24.000 dBm; 20 MHz)

Customized settings.

## Result

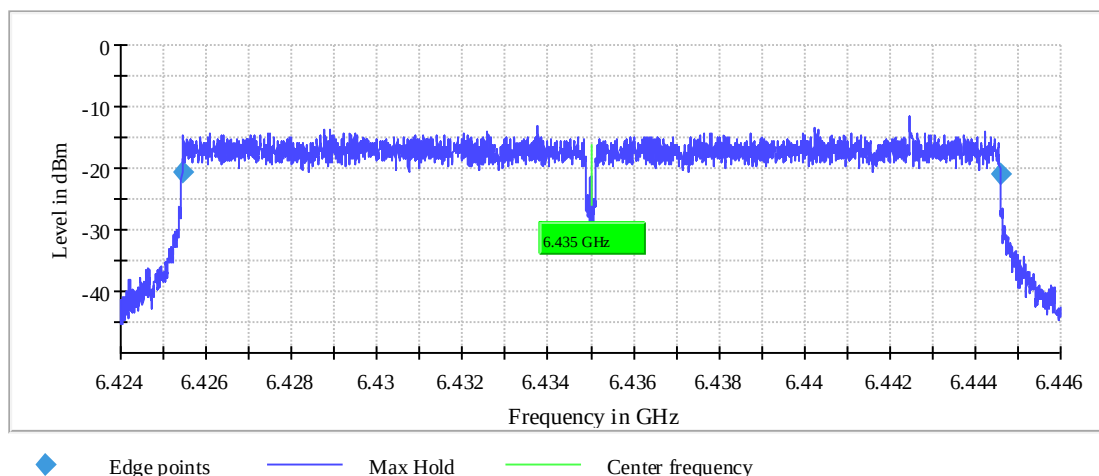
| DUT Frequency (MHz) | Frequency (MHz) | Difference (ppm) | Frequency Difference (kHz) | Limit Min (MHz) | Limit Max (MHz) | Result |
|---------------------|-----------------|------------------|----------------------------|-----------------|-----------------|--------|
| 6435.000000         | 6435.002200     | 0.342            | 2.200000                   | ---             | ---             | PASS   |

Frequency stability Pre





Frequency stability



## Measurement

| Setting         | Instrument Value | Target Value  |
|-----------------|------------------|---------------|
| Start Frequency | 6.42400 GHz      | 6.42400 GHz   |
| Stop Frequency  | 6.44600 GHz      | 6.44600 GHz   |
| Span            | 22.000 MHz       | 22.000 MHz    |
| RBW             | 20.000 kHz       | <= 22.000 kHz |
| VBW             | 100.000 kHz      | >= 60.000 kHz |
| SweepPoints     | 10001            | ~ 10001       |
| SweepTime       | 473.902 $\mu$ s  | AUTO          |
| Reference Level | 0.000 dBm        | 0.000 dBm     |
| Attenuation     | 20.000 dB        | AUTO          |
| Detector        | MaxPeak          | MaxPeak       |
| SweepCount      | 50               | 50            |
| Filter          | 3 dB             | 3 dB          |
| Trace Mode      | Max Hold         | Max Hold      |
| SweepType       | FFT              | AUTO          |
| Preamp          | off              | off           |

## Emission Bandwidth 26 dB (6475 MHz; 24.000 dBm; 20 MHz)

Customized settings.

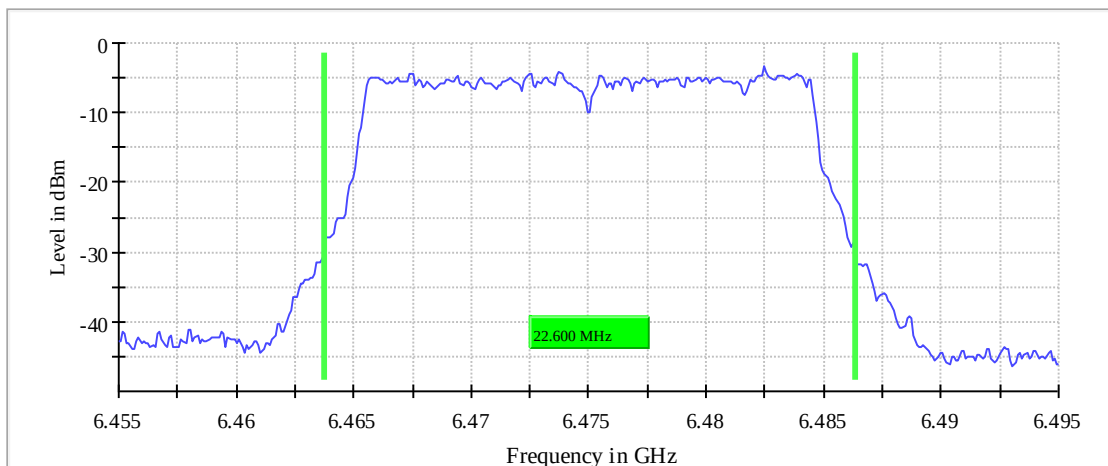
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6475.000000         | 22.600000       | ---             | 320.000000      | 6463.750000          | ---            |

(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6475.000000         | 6486.350000           | ---                  | -3.4            | PASS   |

26 dB Bandwidth



Bandwidth



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## In-Band Emissions (6475 MHz; 24.000 dBm; 20 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6475.000000         | PASS   |

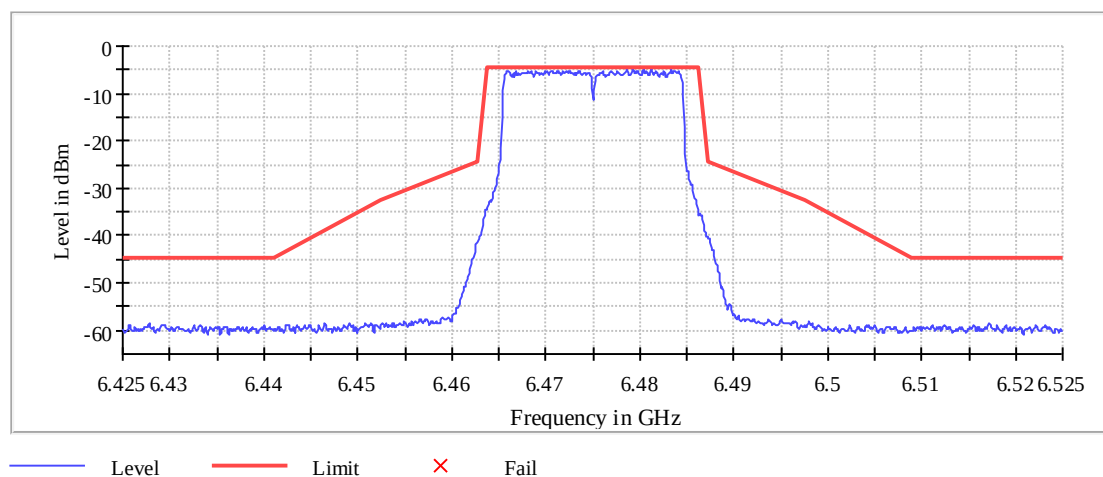
### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6481.250000     | -4.5        |

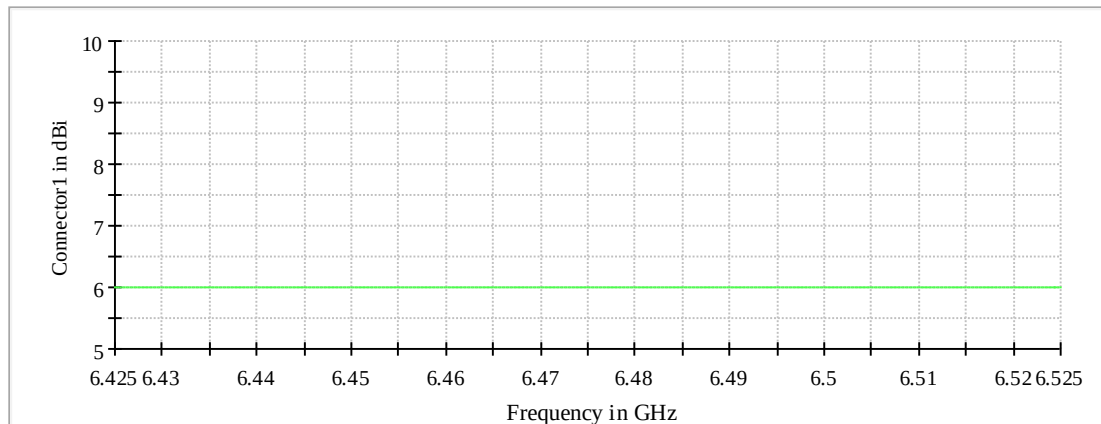
### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6483.350000     | -4.8        | 0.3         | -4.5        | PASS   |
| 6478.650000     | -4.9        | 0.4         | -4.5        | PASS   |
| 6479.250000     | -5.0        | 0.4         | -4.5        | PASS   |
| 6480.450000     | -5.0        | 0.4         | -4.5        | PASS   |
| 6470.550000     | -5.1        | 0.6         | -4.5        | PASS   |
| 6470.250000     | -5.2        | 0.6         | -4.5        | PASS   |
| 6479.350000     | -5.2        | 0.6         | -4.5        | PASS   |
| 6472.550000     | -5.2        | 0.7         | -4.5        | PASS   |
| 6480.350000     | -5.2        | 0.7         | -4.5        | PASS   |
| 6477.650000     | -5.2        | 0.7         | -4.5        | PASS   |
| 6483.650000     | -5.2        | 0.7         | -4.5        | PASS   |
| 6470.650000     | -5.2        | 0.7         | -4.5        | PASS   |
| 6483.250000     | -5.2        | 0.7         | -4.5        | PASS   |
| 6465.950000     | -5.3        | 0.7         | -4.5        | PASS   |
| 6472.250000     | -5.3        | 0.7         | -4.5        | PASS   |

In Band

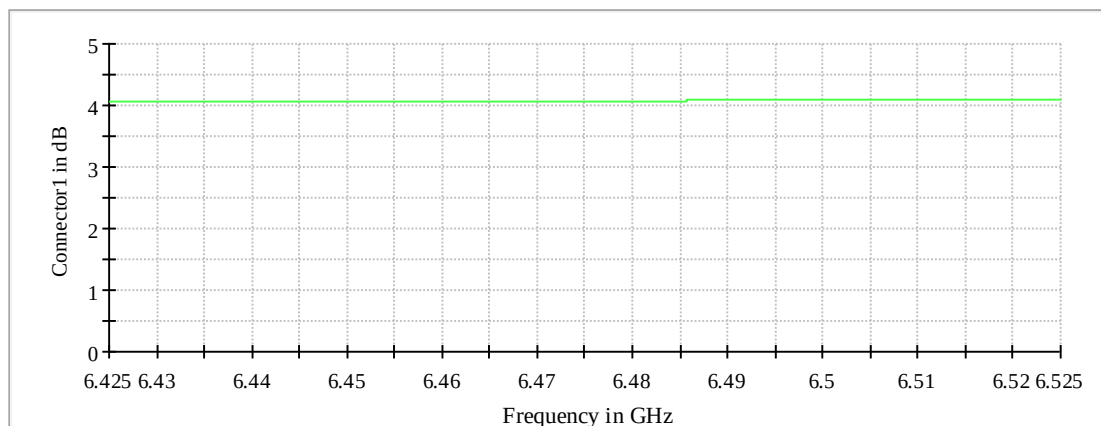


Gain



Connector1

Attenuation



Connector1

## Occupied Channel Bandwidth 99% (6475 MHz; 24.000 dBm; 20 MHz)

Customized settings.

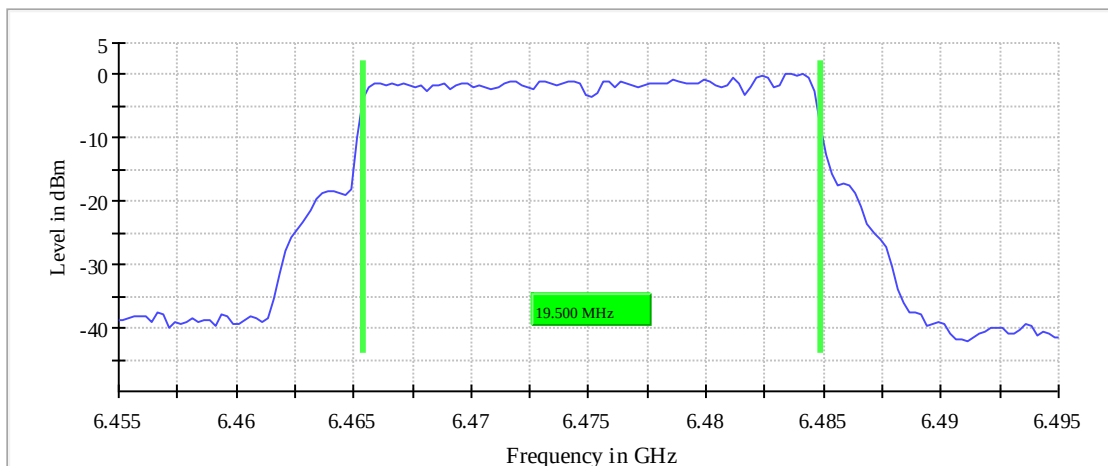
### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6475.000000         | 19.500000       | ---             | 320.000000      | 6465.375000          | 5925.000000          |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6475.000000         | 6484.875000           | 7125.000000          | PASS   |

99 % Bandwidth



Bandwidth



Date: 18.NOV.2024 22:51:05

## Emission Bandwidth 26 dB (6515 MHz; 24.000 dBm; 20 MHz)

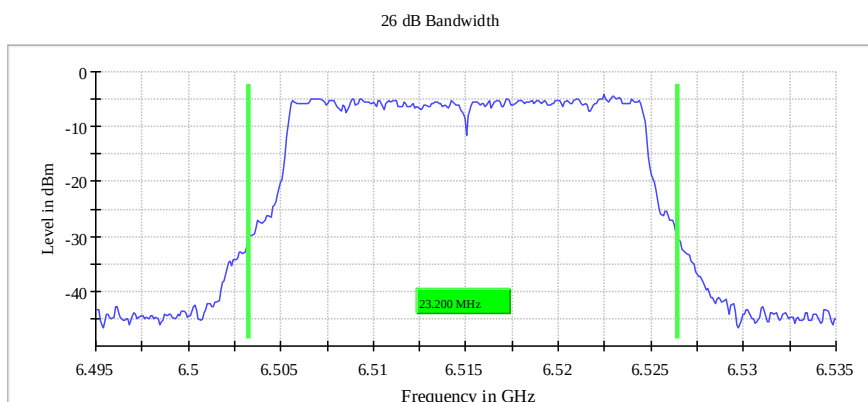
Customized settings.

### 26 dB Bandwidth

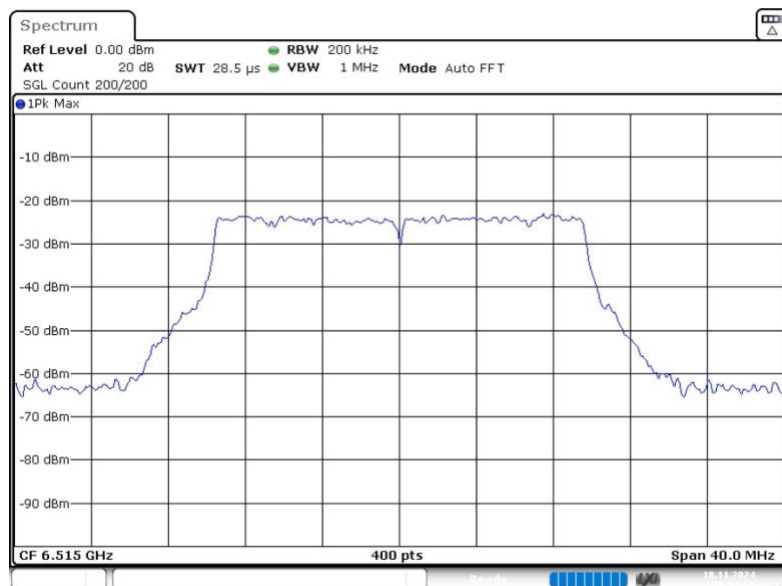
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6515.000000         | 23.200000       | ---             | 320.000000      | 6503.250000          | ---            |

(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6515.000000         | 6526.450000           | ---                  | -4.2            | PASS   |



### Bandwidth



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## In-Band Emissions (6515 MHz; 24.000 dBm; 20 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6515.000000         | PASS   |

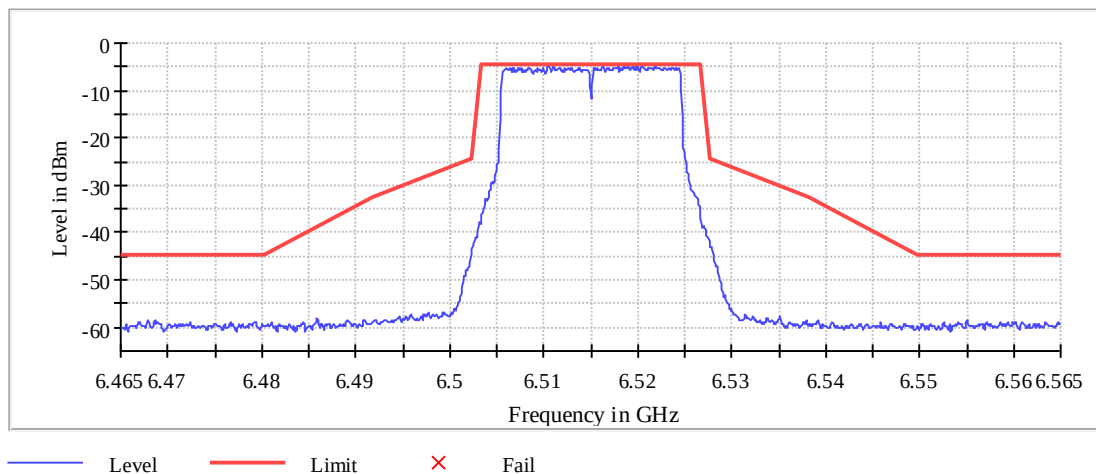
### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6520.450000     | -4.5        |

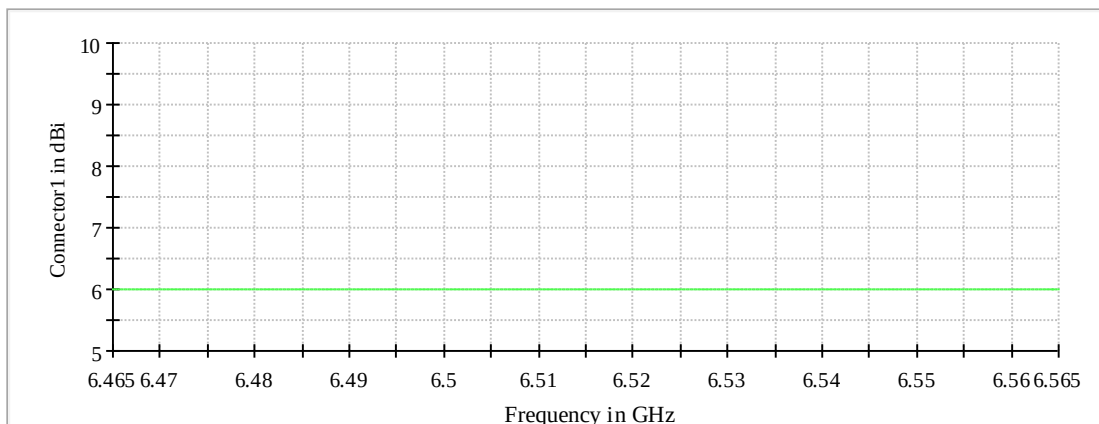
### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6520.450000     | -4.5        | 0.0         | -4.5        | PASS   |
| 6521.850000     | -4.9        | 0.3         | -4.5        | PASS   |
| 6516.250000     | -4.9        | 0.3         | -4.5        | PASS   |
| 6520.550000     | -4.9        | 0.4         | -4.5        | PASS   |
| 6511.050000     | -4.9        | 0.4         | -4.5        | PASS   |
| 6517.950000     | -4.9        | 0.4         | -4.5        | PASS   |
| 6510.550000     | -4.9        | 0.4         | -4.5        | PASS   |
| 6519.750000     | -5.0        | 0.4         | -4.5        | PASS   |
| 6520.050000     | -5.0        | 0.5         | -4.5        | PASS   |
| 6516.350000     | -5.0        | 0.5         | -4.5        | PASS   |
| 6518.550000     | -5.0        | 0.5         | -4.5        | PASS   |
| 6510.450000     | -5.0        | 0.5         | -4.5        | PASS   |
| 6518.950000     | -5.0        | 0.5         | -4.5        | PASS   |
| 6519.450000     | -5.0        | 0.5         | -4.5        | PASS   |
| 6510.650000     | -5.1        | 0.5         | -4.5        | PASS   |

In Band

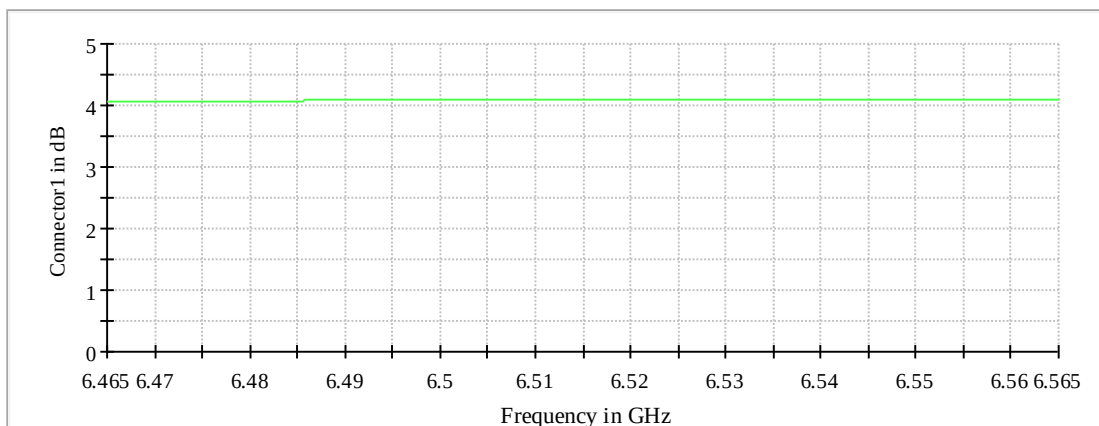


Gain



Connector1

Attenuation



Connector1

## Occupied Channel Bandwidth 99% (6515 MHz; 24.000 dBm; 20 MHz)

Customized settings.

### 99 % Bandwidth

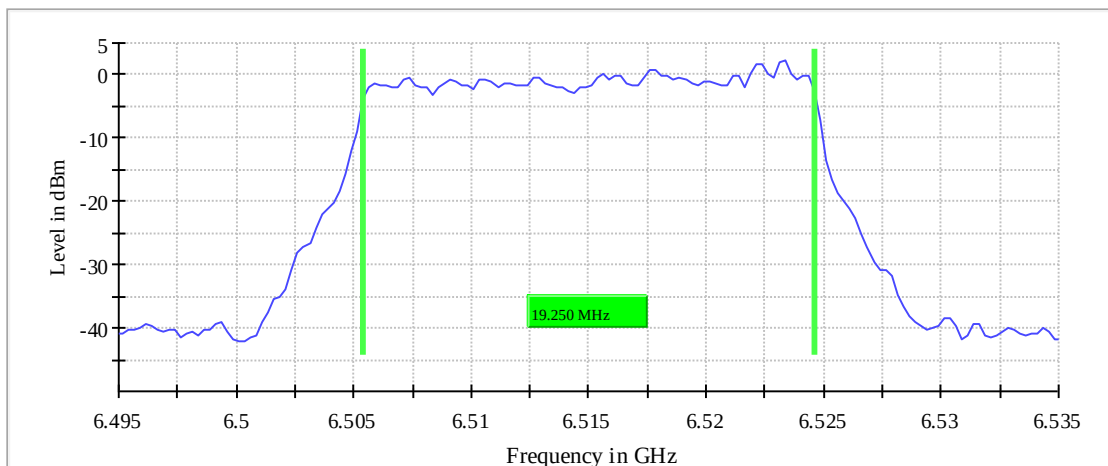
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6515.000000         | 19.250000       | ---             | 320.000000      | 6505.375000          | 5925.000000          |

(continuation of the "99 % Bandwidth" table from column 6 ...)

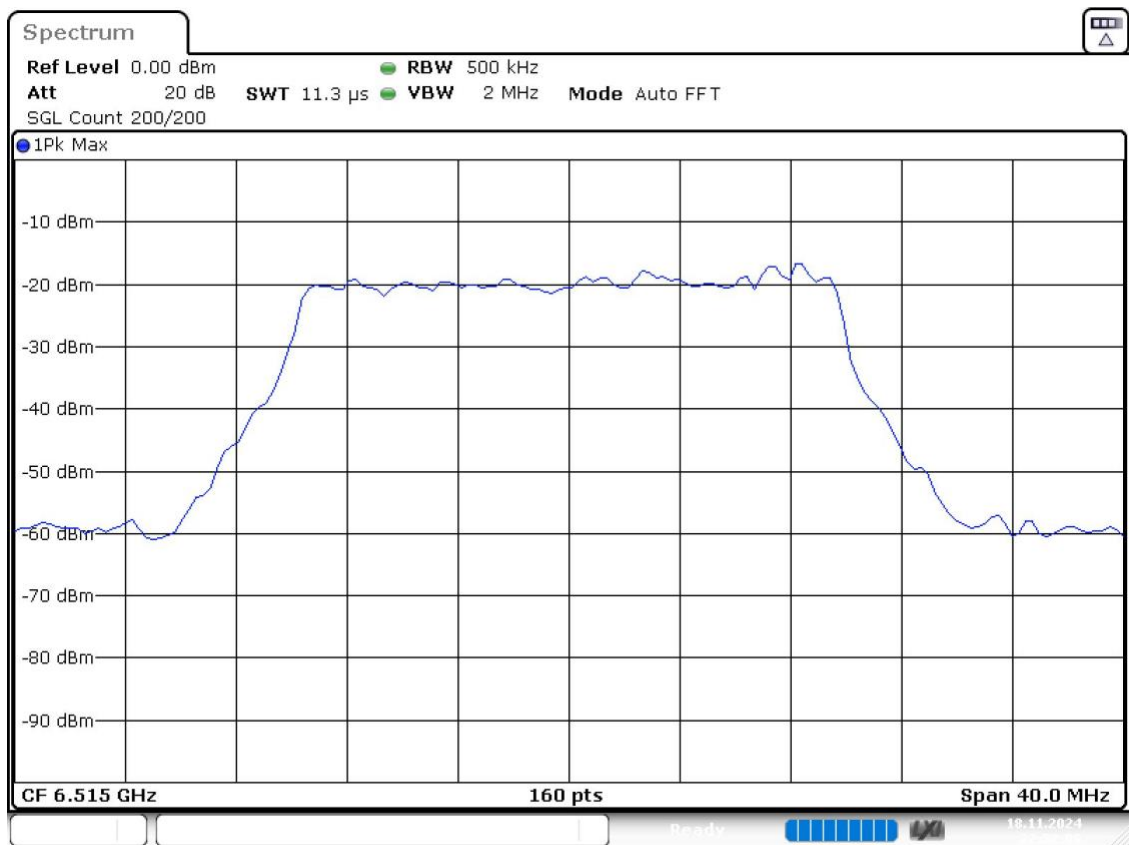
| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6515.000000         | 6524.625000           | 7125.000000          | PASS   |



99 % Bandwidth



Bandwidth



Date: 18.NOV.2024 22:52:09

## Emission Bandwidth 26 dB (6445 MHz; 24.000 dBm; 40 MHz)

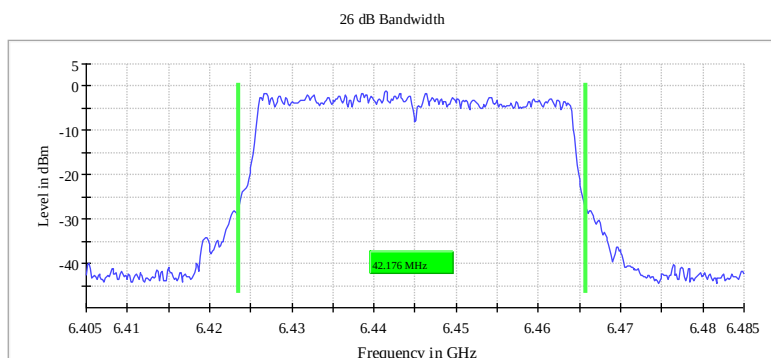
Customized settings.

### 26 dB Bandwidth

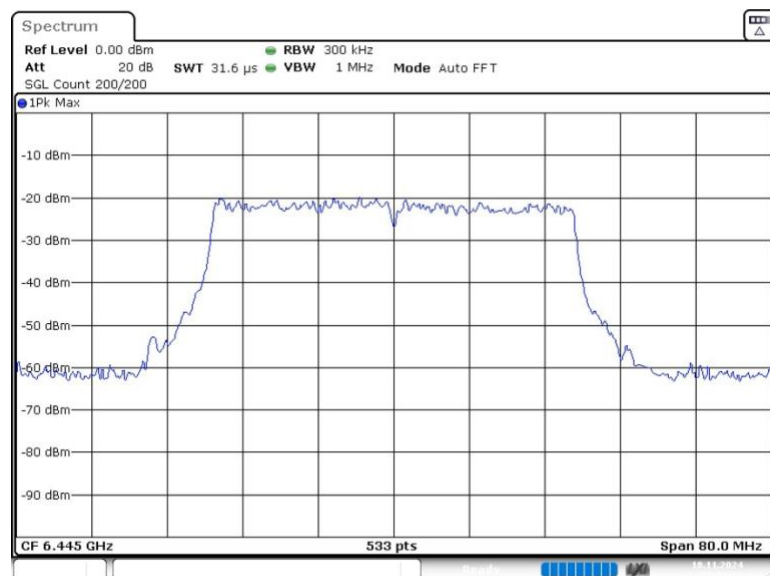
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6445.000000         | 42.176361       | ---             | 320.000000      | 6423.536585          | ---            |

(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6445.000000         | 6465.712946           | ---                  | -1.2            | PASS   |



### Bandwidth



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## In-Band Emissions (6445 MHz; 24.000 dBm; 40 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6445.000000         | PASS   |

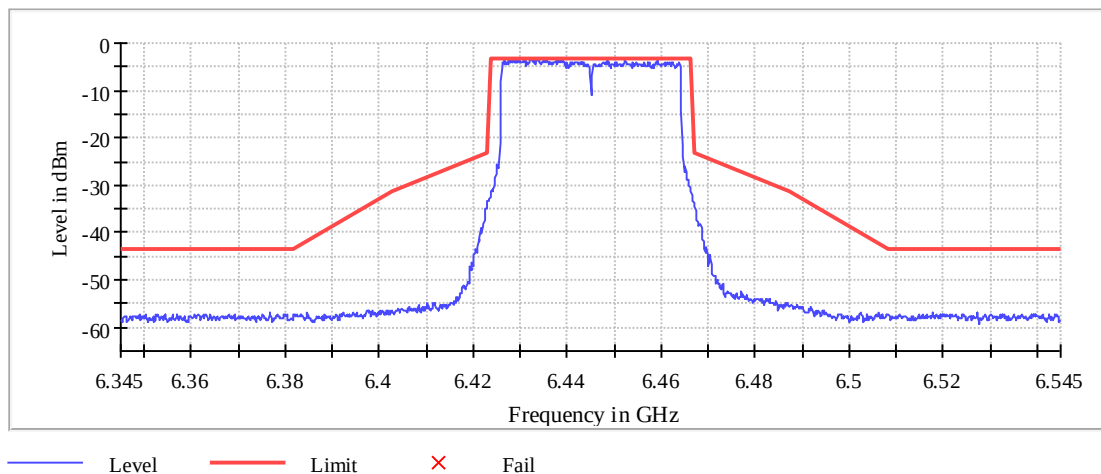
### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6435.547637     | -3.3        |

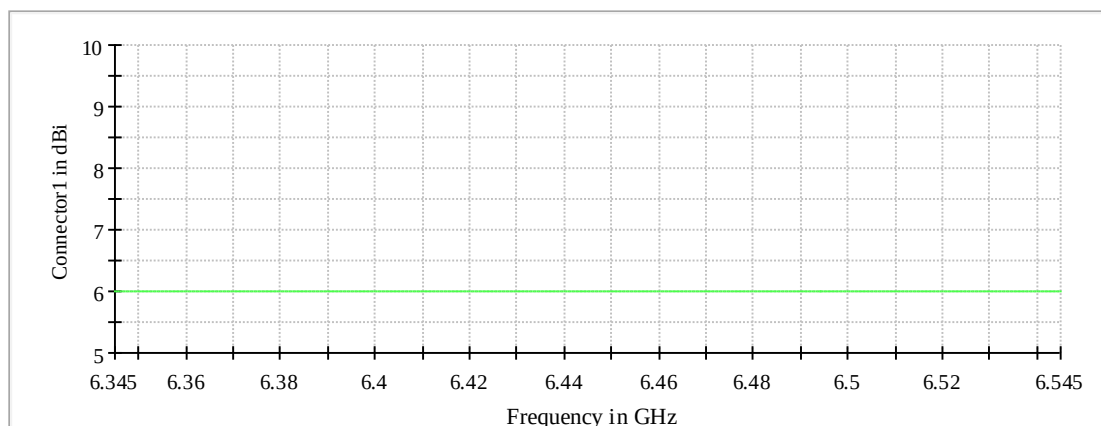
### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6435.547637     | -3.3        | 0.0         | -3.3        | PASS   |
| 6432.246812     | -3.3        | 0.0         | -3.3        | PASS   |
| 6432.996999     | -3.4        | 0.1         | -3.3        | PASS   |
| 6428.195799     | -3.4        | 0.1         | -3.3        | PASS   |
| 6438.698425     | -3.5        | 0.2         | -3.3        | PASS   |
| 6432.096774     | -3.5        | 0.2         | -3.3        | PASS   |
| 6429.846212     | -3.5        | 0.3         | -3.3        | PASS   |
| 6428.045761     | -3.5        | 0.3         | -3.3        | PASS   |
| 6428.645911     | -3.6        | 0.3         | -3.3        | PASS   |
| 6432.396849     | -3.6        | 0.3         | -3.3        | PASS   |
| 6439.148537     | -3.6        | 0.3         | -3.3        | PASS   |
| 6433.897224     | -3.6        | 0.3         | -3.3        | PASS   |
| 6430.596399     | -3.6        | 0.3         | -3.3        | PASS   |
| 6429.096024     | -3.6        | 0.3         | -3.3        | PASS   |
| 6433.147037     | -3.6        | 0.3         | -3.3        | PASS   |

In Band

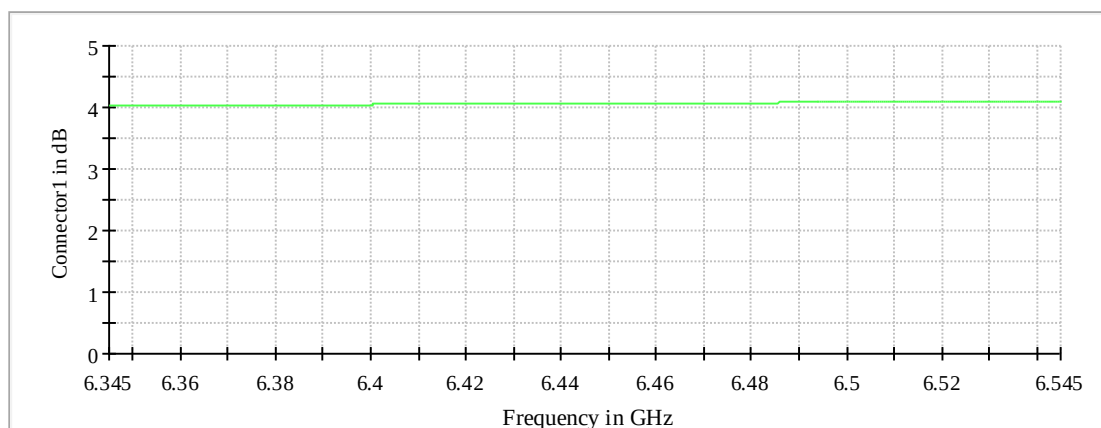


Gain



Connector1

Attenuation



Connector1

## Occupied Channel Bandwidth 99% (6445 MHz; 24.000 dBm; 40 MHz)

Customized settings.

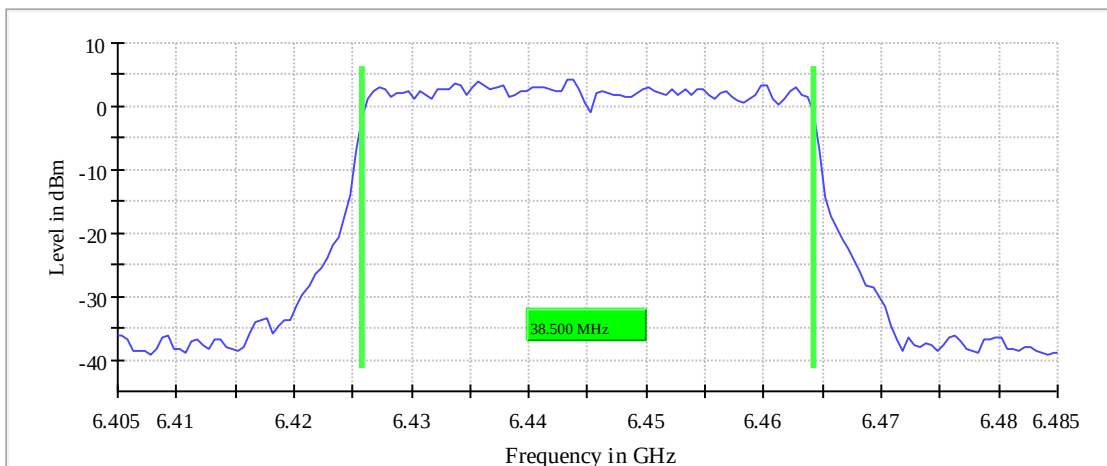
### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6445.000000         | 38.500000       | ---             | 320.000000      | 6425.750000          | 5925.000000          |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6445.000000         | 6464.250000           | 7125.000000          | PASS   |

99 % Bandwidth



Bandwidth



Date: 18.NOV.2024 22:53:24

## Emission Bandwidth 26 dB (6485 MHz; 24.000 dBm; 40 MHz)

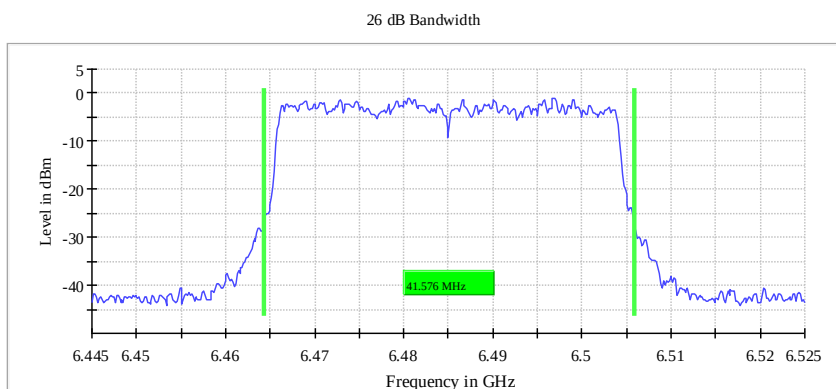
Customized settings.

### 26 dB Bandwidth

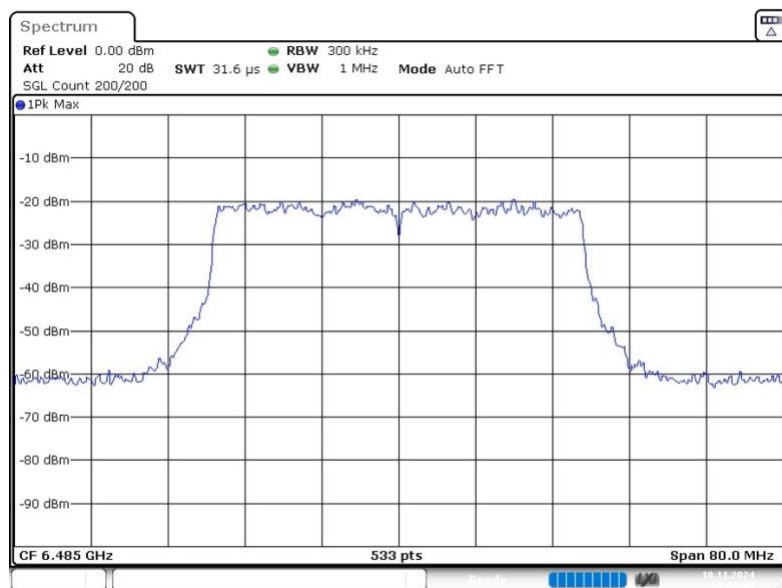
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6485.000000         | 41.575985       | ---             | 320.000000      | 6464.287054          | ---            |

(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max R BE (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6485.000000         | 6505.863039           | ---                  | -0.9            | PASS   |



### Bandwidth



Date: 18.NOV.2024 22:53:46

## In-Band Emissions (6485 MHz; 24.000 dBm; 40 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6485.000000         | PASS   |

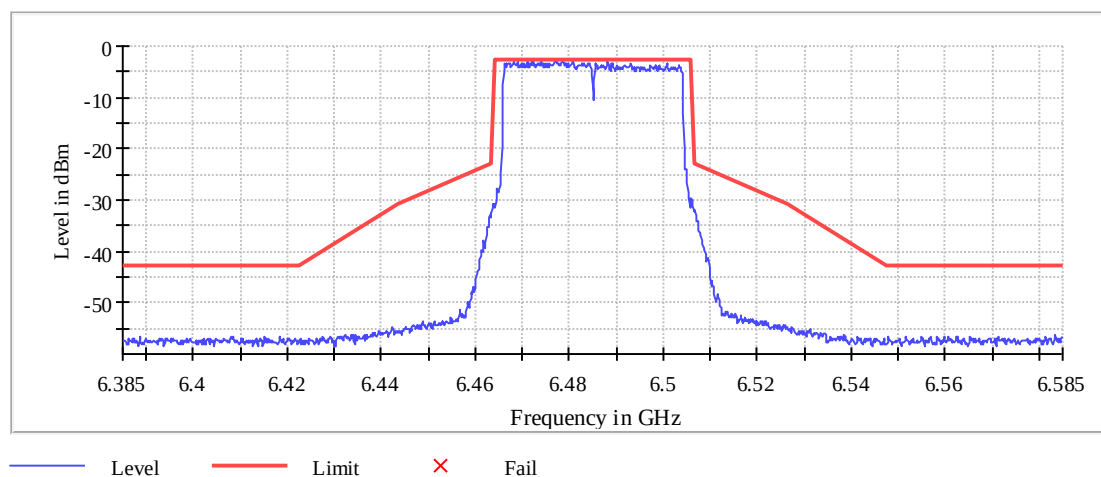
### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6480.798950     | -2.7        |

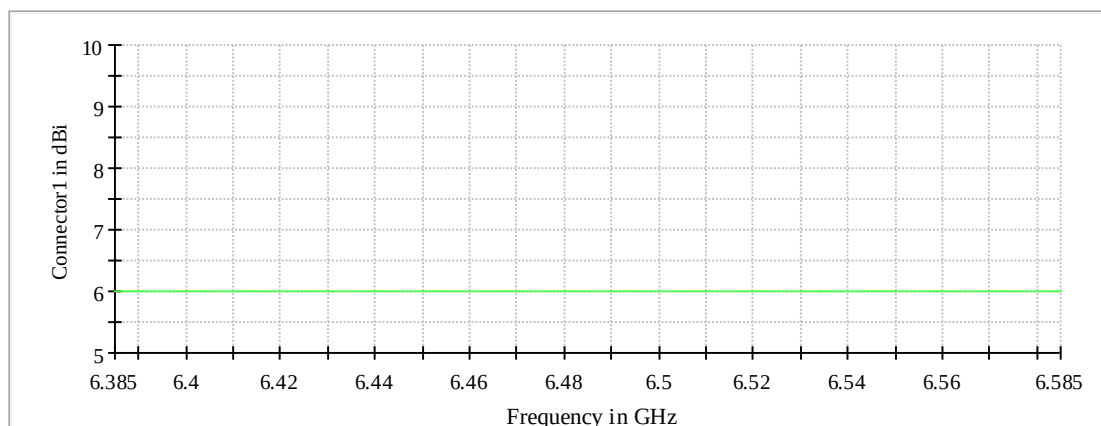
### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6480.798950     | -2.7        | 0.0         | -2.7        | PASS   |
| 6477.198050     | -2.9        | 0.2         | -2.7        | PASS   |
| 6476.897974     | -2.9        | 0.2         | -2.7        | PASS   |
| 6472.246812     | -3.0        | 0.3         | -2.7        | PASS   |
| 6478.698425     | -3.0        | 0.3         | -2.7        | PASS   |
| 6477.048012     | -3.1        | 0.4         | -2.7        | PASS   |
| 6474.047262     | -3.1        | 0.4         | -2.7        | PASS   |
| 6478.548387     | -3.1        | 0.4         | -2.7        | PASS   |
| 6471.046512     | -3.1        | 0.4         | -2.7        | PASS   |
| 6468.945986     | -3.1        | 0.4         | -2.7        | PASS   |
| 6488.150788     | -3.1        | 0.4         | -2.7        | PASS   |
| 6472.096774     | -3.1        | 0.4         | -2.7        | PASS   |
| 6468.345836     | -3.1        | 0.4         | -2.7        | PASS   |
| 6480.648912     | -3.2        | 0.5         | -2.7        | PASS   |
| 6468.195799     | -3.2        | 0.5         | -2.7        | PASS   |

In Band

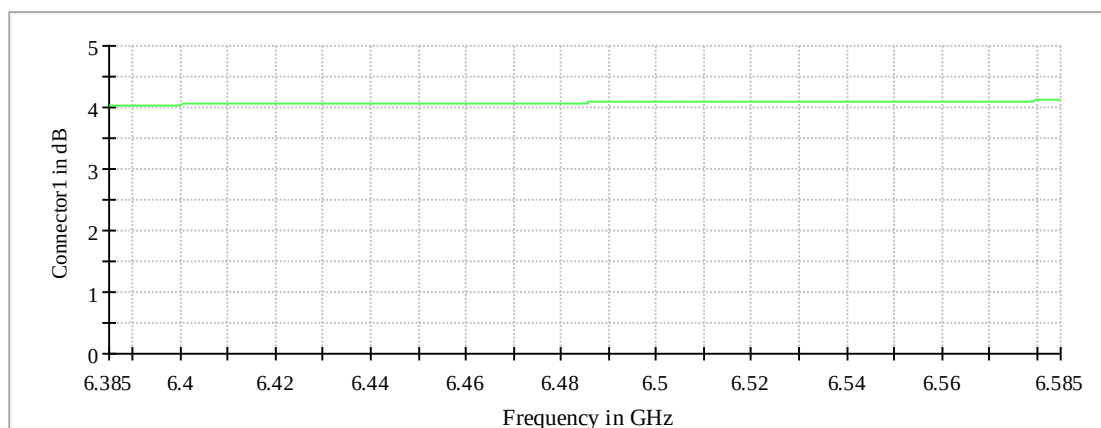


Gain



Connector1

Attenuation



Connector1

## Occupied Channel Bandwidth 99% (6485 MHz; 24.000 dBm; 40 MHz)

Customized settings.

### 99 % Bandwidth

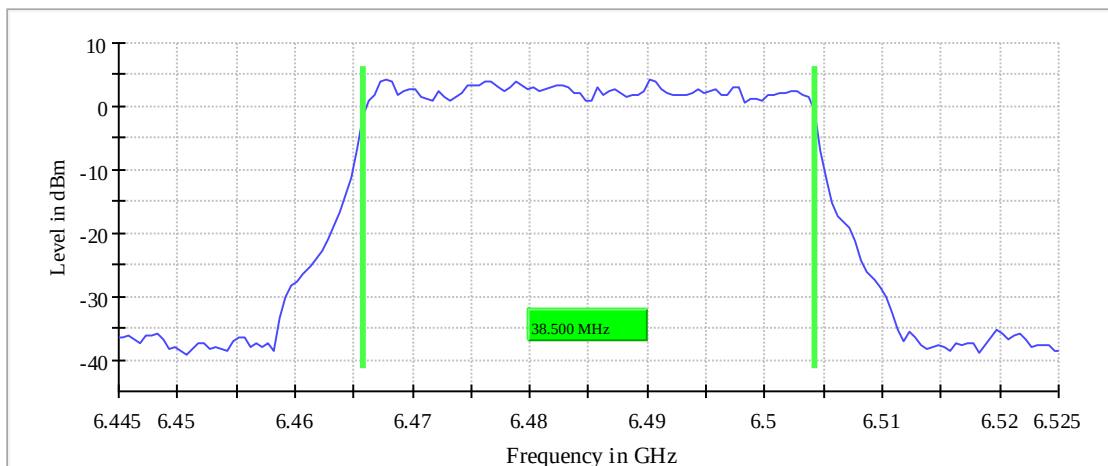
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6485.000000         | 38.500000       | ---             | 320.000000      | 6465.750000          | 5925.000000          |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6485.000000         | 6504.250000           | 7125.000000          | PASS   |



99 % Bandwidth



Bandwidth



Date: 18.NOV.2024 22:54:37

## Emission Bandwidth 26 dB (6465 MHz; 24.000 dBm; 80 MHz)

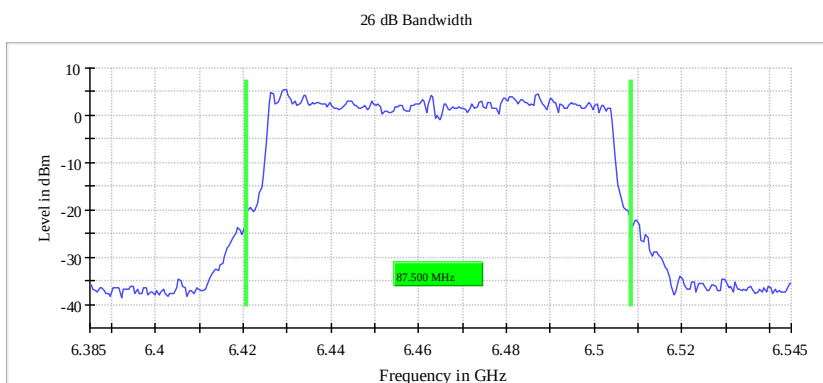
Customized settings.

### 26 dB Bandwidth

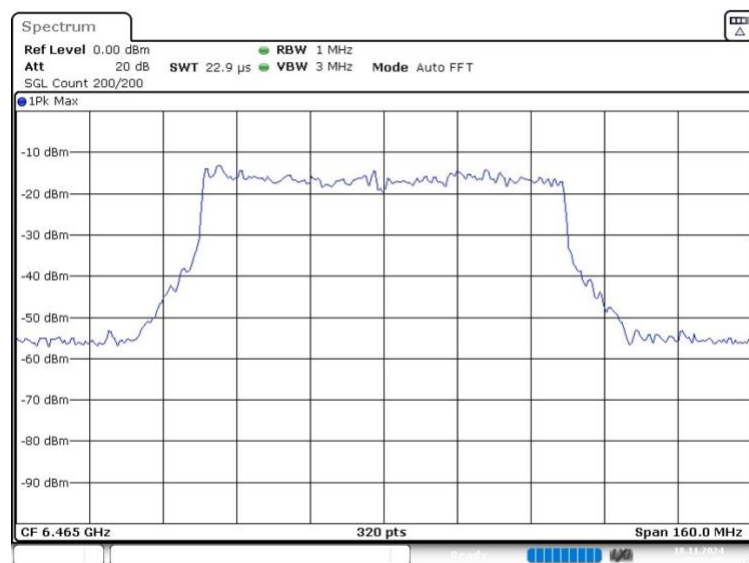
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6465.000000         | 87.500000       | ---             | 320.000000      | 6420.750000          | ---            |

(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6465.000000         | 6508.250000           | ---                  | 5.5             | PASS   |



### Bandwidth



Date: 18.NOV.2024 22:55:27

## In-Band Emissions (6465 MHz; 24.000 dBm; 80 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6465.000000         | PASS   |

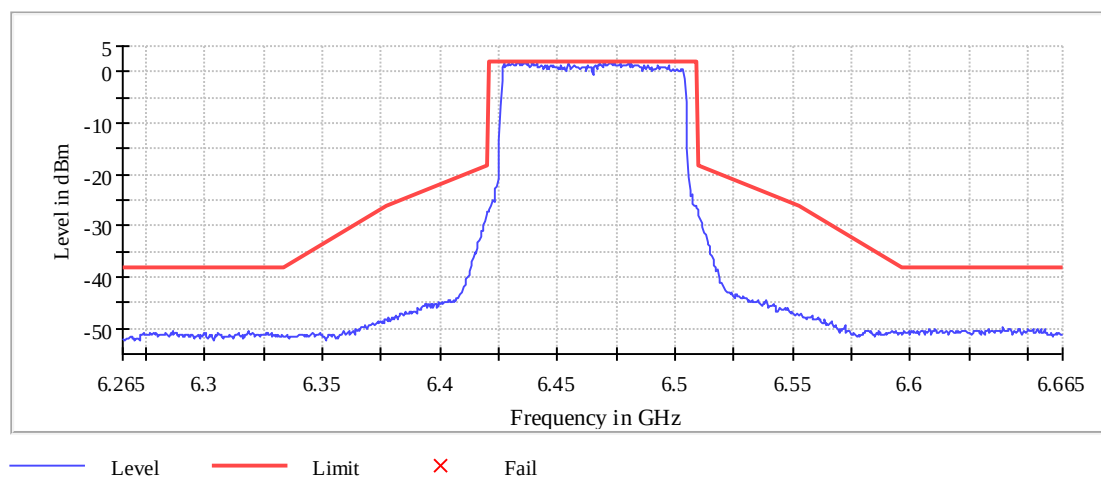
### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6434.750000     | 1.8         |

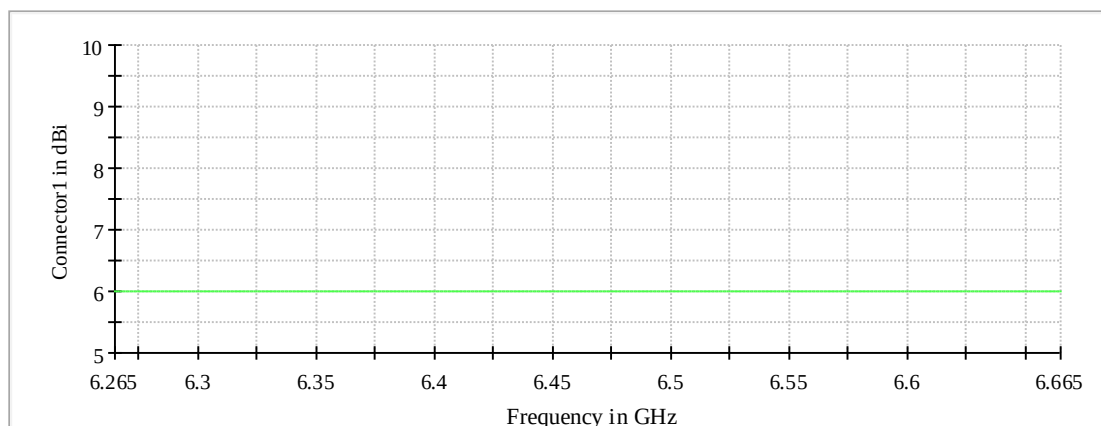
### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6434.750000     | 1.8         | 0.0         | 1.8         | PASS   |
| 6427.250000     | 1.8         | 0.0         | 1.8         | PASS   |
| 6429.250000     | 1.8         | 0.0         | 1.8         | PASS   |
| 6430.750000     | 1.8         | 0.0         | 1.8         | PASS   |
| 6435.750000     | 1.8         | 0.1         | 1.8         | PASS   |
| 6476.750000     | 1.7         | 0.1         | 1.8         | PASS   |
| 6432.750000     | 1.7         | 0.1         | 1.8         | PASS   |
| 6436.250000     | 1.7         | 0.1         | 1.8         | PASS   |
| 6433.250000     | 1.7         | 0.1         | 1.8         | PASS   |
| 6472.750000     | 1.6         | 0.2         | 1.8         | PASS   |
| 6473.750000     | 1.6         | 0.2         | 1.8         | PASS   |
| 6439.750000     | 1.6         | 0.2         | 1.8         | PASS   |
| 6471.750000     | 1.6         | 0.2         | 1.8         | PASS   |
| 6470.250000     | 1.6         | 0.2         | 1.8         | PASS   |
| 6472.250000     | 1.6         | 0.2         | 1.8         | PASS   |

In Band

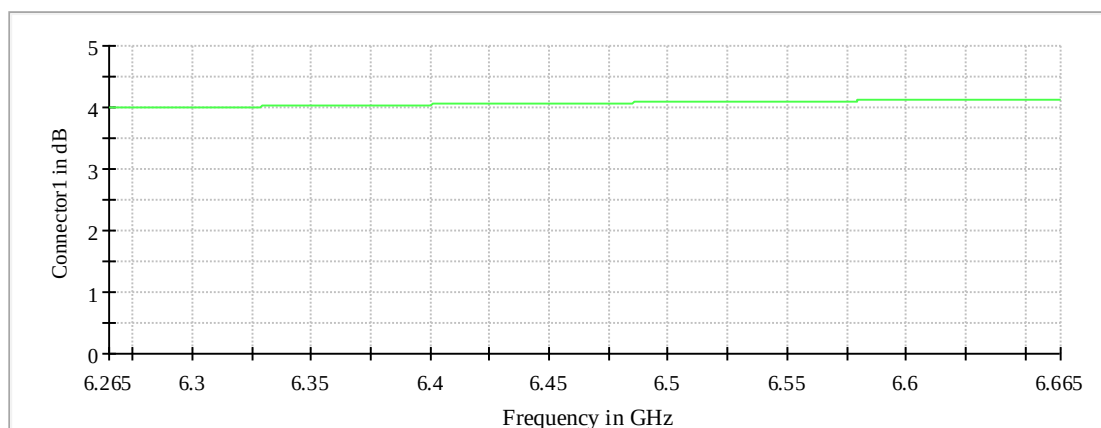


Gain



Connector1

Attenuation



Connector1

## Occupied Channel Bandwidth 99% (6465 MHz; 24.000 dBm; 80 MHz)

Customized settings.

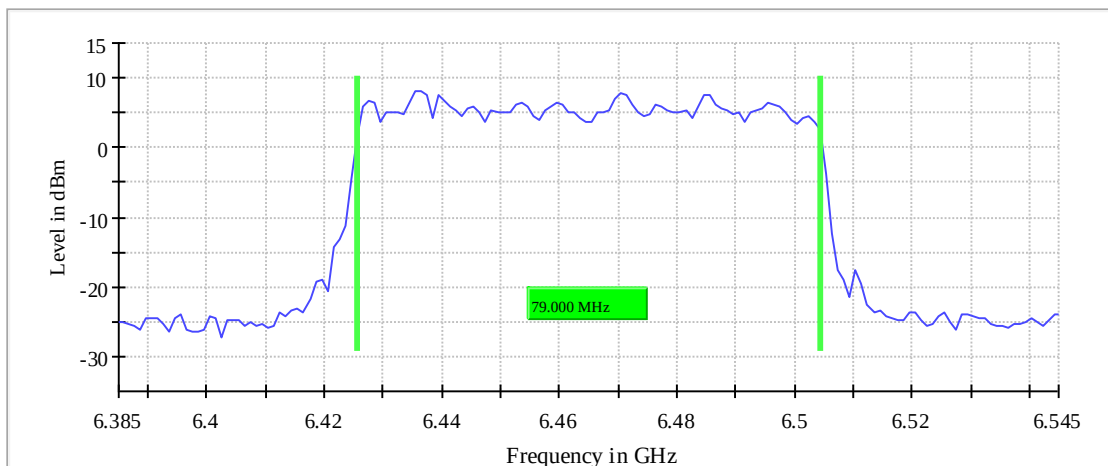
### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6465.000000         | 79.000000       | ---             | 320.000000      | 6425.500000          | 5925.000000          |

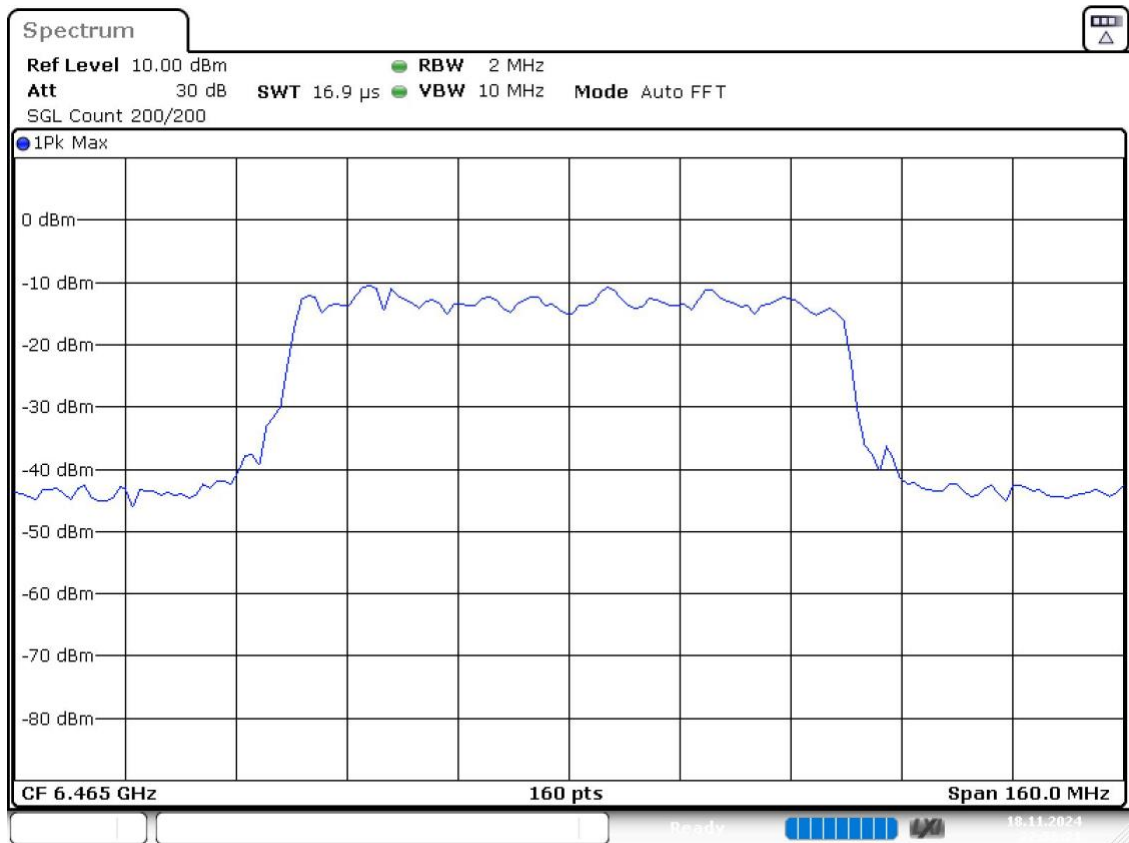
(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6465.000000         | 6504.500000           | 7125.000000          | PASS   |

99 % Bandwidth



Bandwidth



Date: 18.NOV.2024 22:56:22

## Emission Bandwidth 26 dB (6505 MHz; 24.000 dBm; 160 MHz)

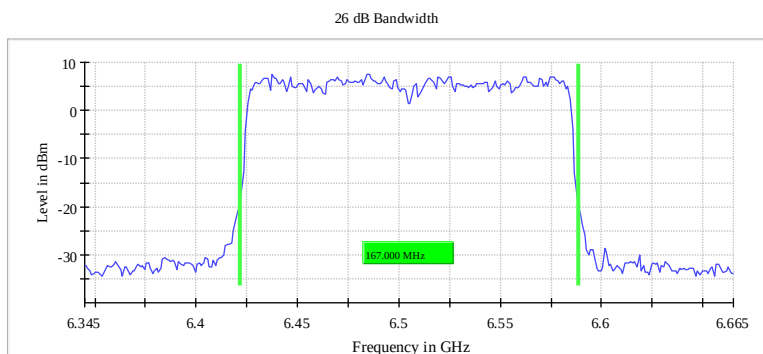
Customized settings.

### 26 dB Bandwidth

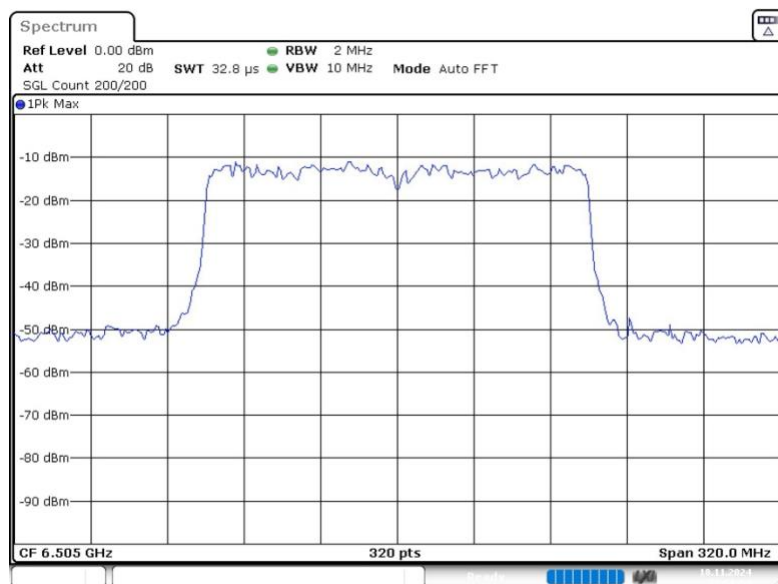
| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 6 (MHz) | Bandwidth U-NII 7 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|-------------------------|-------------------------|-----------------|-----------------|
| 6505.000000         | 167.000000      | 103.500000              | 63.500000               | ---             | 320.000000      |

(continuation of the "26 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|----------------------|----------------------|-----------------------|----------------------|-----------------|--------|
| 6505.000000         | 6421.500000          | ---                  | 6588.500000           | ---                  | 7.6             | PASS   |



### Bandwidth



Date: 18.NOV.2024 22:56:54

## In-Band Emissions (6505 MHz; 24.000 dBm; 160 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6505.000000         | PASS   |

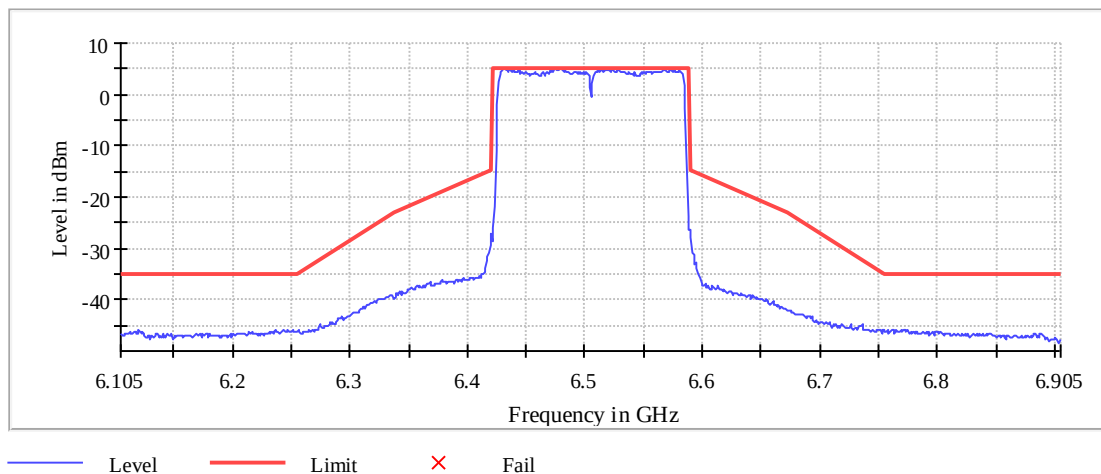
### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6430.500000     | 5.2         |

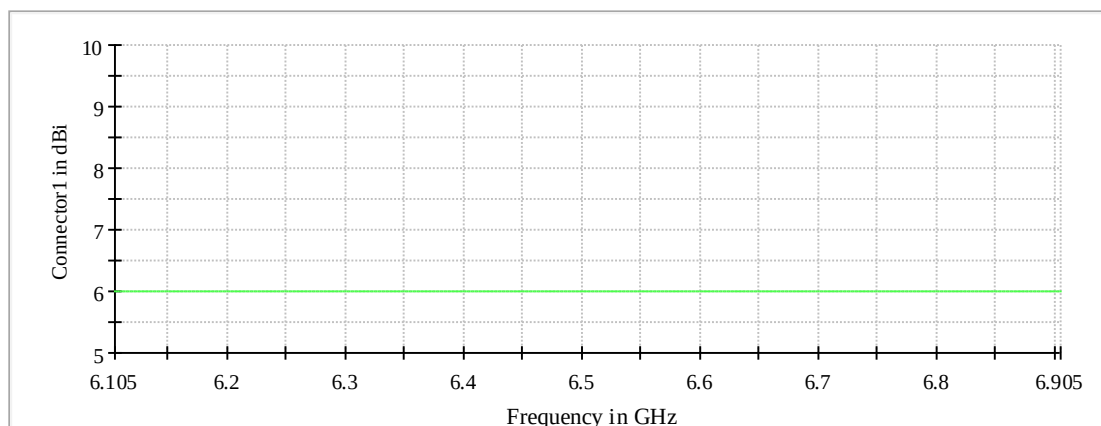
### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6430.500000     | 5.2         | 0.0         | 5.2         | PASS   |
| 6431.500000     | 5.1         | 0.1         | 5.2         | PASS   |
| 6511.500000     | 5.1         | 0.1         | 5.2         | PASS   |
| 6470.500000     | 5.1         | 0.1         | 5.2         | PASS   |
| 6514.500000     | 5.0         | 0.2         | 5.2         | PASS   |
| 6435.500000     | 5.0         | 0.2         | 5.2         | PASS   |
| 6474.500000     | 5.0         | 0.2         | 5.2         | PASS   |
| 6479.500000     | 5.0         | 0.2         | 5.2         | PASS   |
| 6433.500000     | 5.0         | 0.2         | 5.2         | PASS   |
| 6528.500000     | 4.9         | 0.3         | 5.2         | PASS   |
| 6472.500000     | 4.8         | 0.3         | 5.2         | PASS   |
| 6513.500000     | 4.8         | 0.4         | 5.2         | PASS   |
| 6573.500000     | 4.8         | 0.4         | 5.2         | PASS   |
| 6580.500000     | 4.8         | 0.4         | 5.2         | PASS   |
| 6522.500000     | 4.8         | 0.4         | 5.2         | PASS   |

In Band

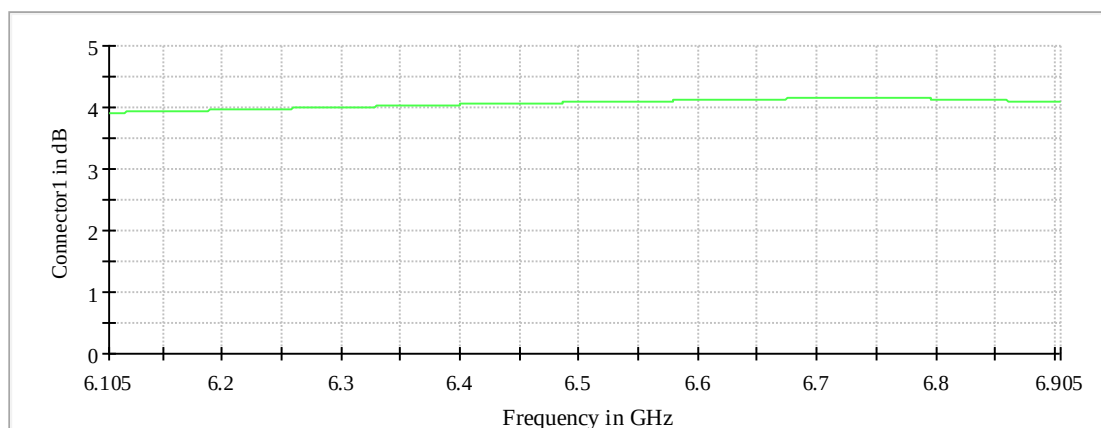


Gain



Connector1

Attenuation



Connector1

## Occupied Channel Bandwidth 99% (6505 MHz; 24.000 dBm; 160 MHz)

Customized settings.

### 99 % Bandwidth

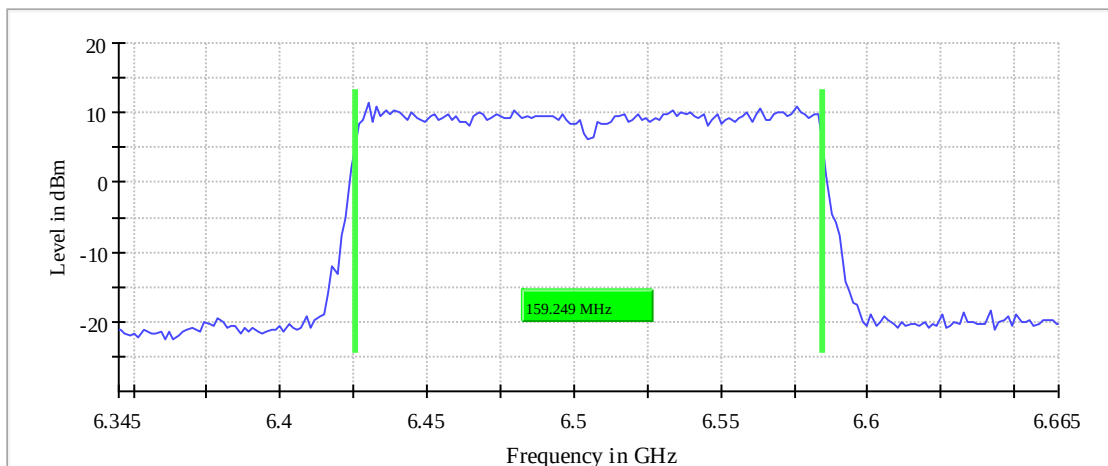
| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 6 (MHz) | Bandwidth U-NII 7 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|-------------------------|-------------------------|-----------------|-----------------|
| 6505.000000         | 159.248826      | 99.624413               | 59.624413               | ---             | 320.000000      |

(continuation of the "99 % Bandwidth" table from column 6 ...)

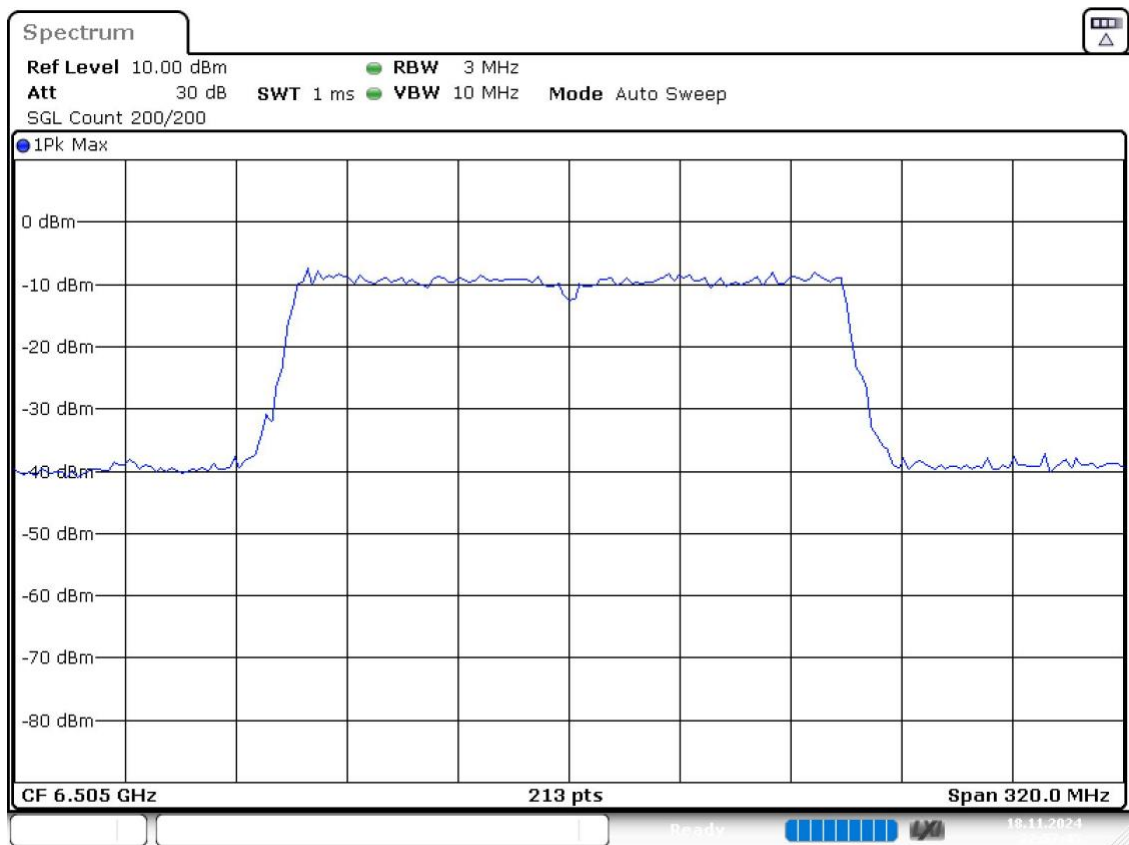
| DUT Frequency (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|----------------------|----------------------|-----------------------|----------------------|--------|
| 6505.000000         | 6425.375587          | 5925.000000          | 6584.624413           | 7125.000000          | PASS   |



99 % Bandwidth



Bandwidth



Date: 18.NOV.2024 22:57:45

## Tx Spurious Emission (6505 MHz; 24.000 dBm; 160 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6505.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

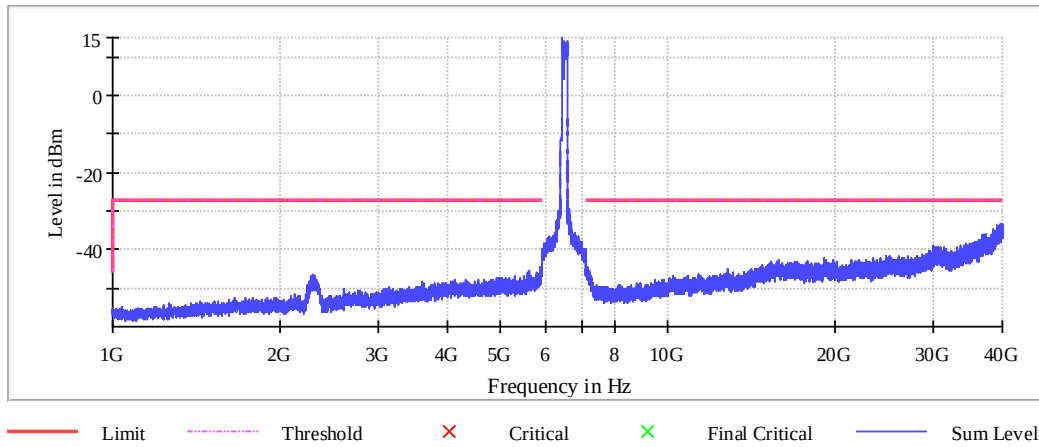
### Pre Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 39947.750000    | -33.2       | 6.2         | -27.0       |
| 39746.250000    | -33.4       | 6.4         | -27.0       |
| 39961.250000    | -33.6       | 6.6         | -27.0       |
| 39942.250000    | -33.7       | 6.7         | -27.0       |
| 39181.750000    | -33.7       | 6.7         | -27.0       |
| 39182.250000    | -33.7       | 6.7         | -27.0       |
| 39171.250000    | -33.7       | 6.7         | -27.0       |
| 39948.250000    | -33.8       | 6.8         | -27.0       |
| 39965.750000    | -33.8       | 6.8         | -27.0       |
| 39927.750000    | -33.9       | 6.9         | -27.0       |
| 39318.250000    | -33.9       | 6.9         | -27.0       |
| 39947.250000    | -34.0       | 7.0         | -27.0       |
| 39939.250000    | -34.0       | 7.0         | -27.0       |
| 39962.250000    | -34.0       | 7.0         | -27.0       |
| 39984.750000    | -34.0       | 7.0         | -27.0       |

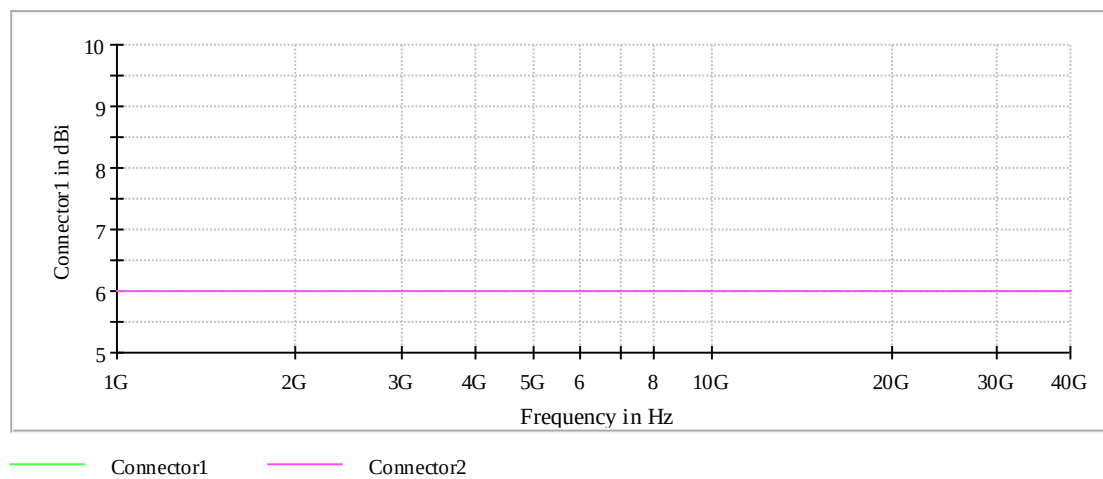
### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 1000.000000           | 5925.000000          | 2               | 2                 |
| 5925.000000           | 7125.000000          | 2               | 2                 |
| 7125.000000           | 18000.000000         | 2               | 2                 |
| 18000.000000          | 26000.000000         | 2               | 2                 |
| 26000.000000          | 40000.000000         | 2               | 2                 |

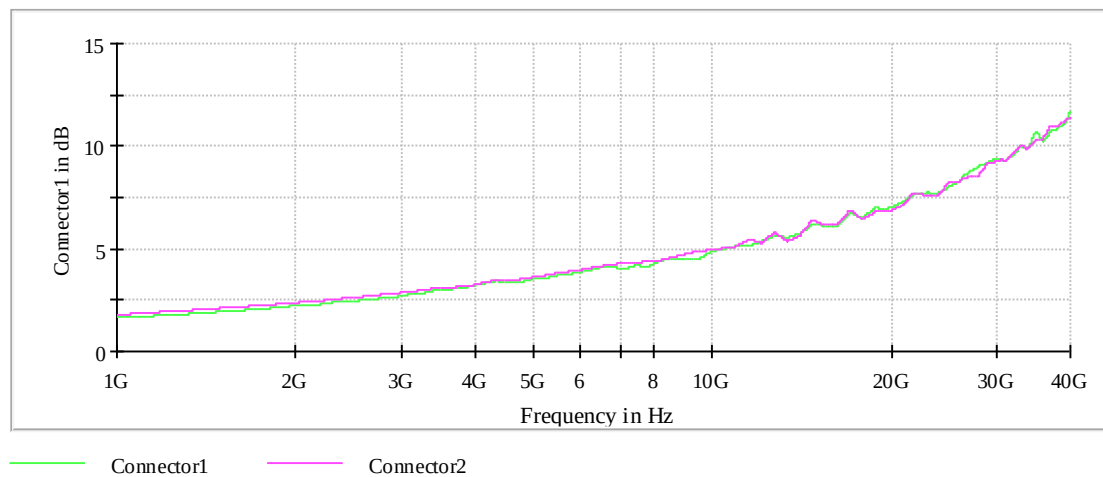
Spurious



Gain



Attenuation



## Emissions in restricted frequency bands (Average) (6505 MHz; 24.000 dBm; 160 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6505.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

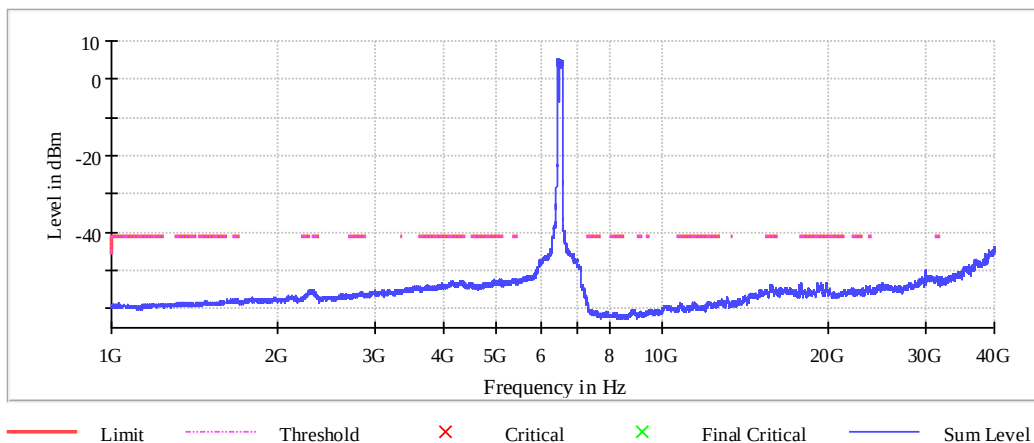
### Pre Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 36498.328177    | -49.1       | 7.9         | -41.2       |
| 36492.828349    | -49.1       | 7.9         | -41.2       |
| 36490.078435    | -49.1       | 7.9         | -41.2       |
| 36486.641042    | -49.1       | 7.9         | -41.2       |
| 36453.642074    | -49.2       | 8.0         | -41.2       |
| 36492.140871    | -49.2       | 8.0         | -41.2       |
| 36483.891128    | -49.2       | 8.0         | -41.2       |
| 36496.265742    | -49.2       | 8.0         | -41.2       |
| 36450.204681    | -49.2       | 8.0         | -41.2       |
| 36485.266085    | -49.2       | 8.0         | -41.2       |
| 36484.578607    | -49.2       | 8.0         | -41.2       |
| 36441.267460    | -49.2       | 8.0         | -41.2       |
| 36499.703134    | -49.3       | 8.1         | -41.2       |
| 36469.454080    | -49.3       | 8.1         | -41.2       |
| 36444.017374    | -49.3       | 8.1         | -41.2       |

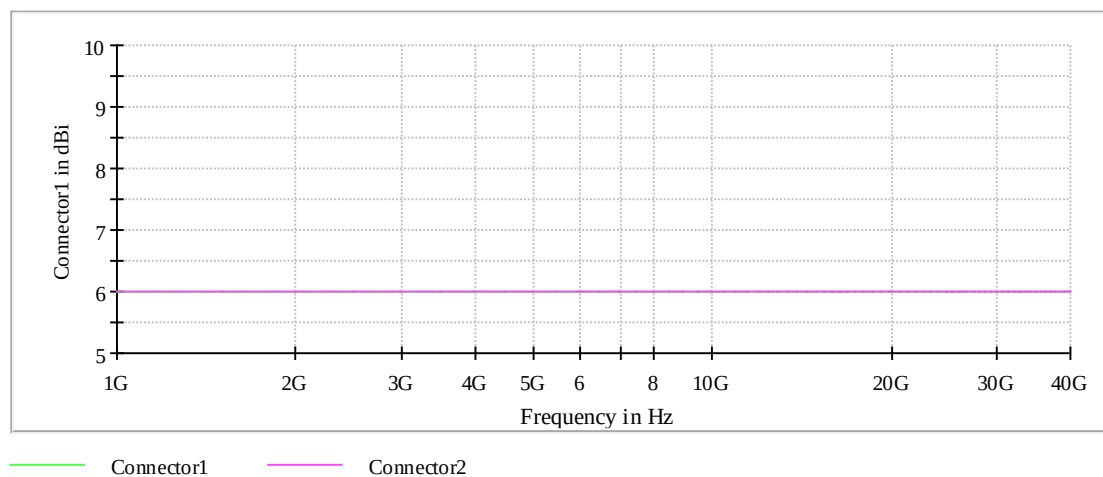
### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 1000.000000           | 5925.000000          | 1               | 1                 |
| 5925.000000           | 7125.000000          | 1               | 1                 |
| 7125.000000           | 18000.000000         | 1               | 1                 |
| 18000.000000          | 40000.000000         | 1               | 1                 |

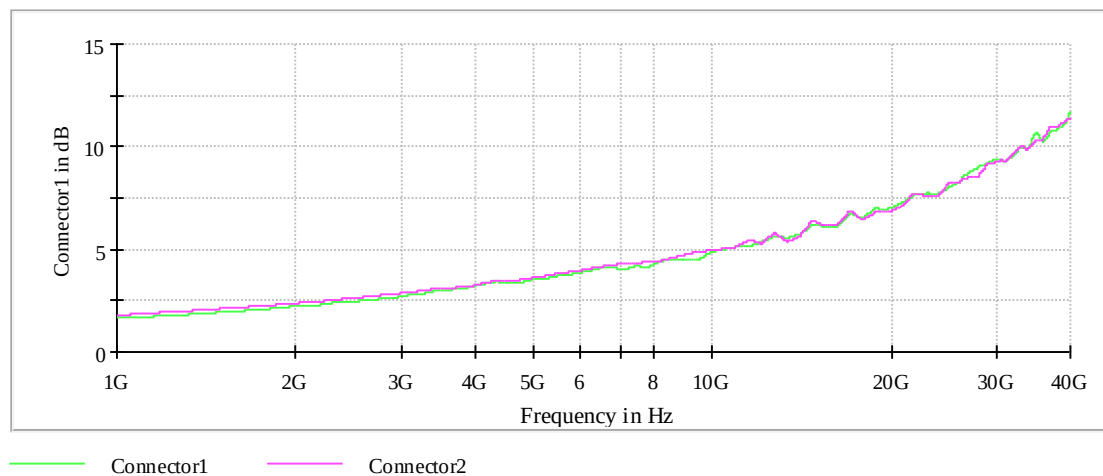
Restricted Band



Gain



Attenuation



## Emissions in restricted frequency bands (Peak) (6505 MHz; 24.000 dBm; 160 MHz)

Customized settings.

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6505.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

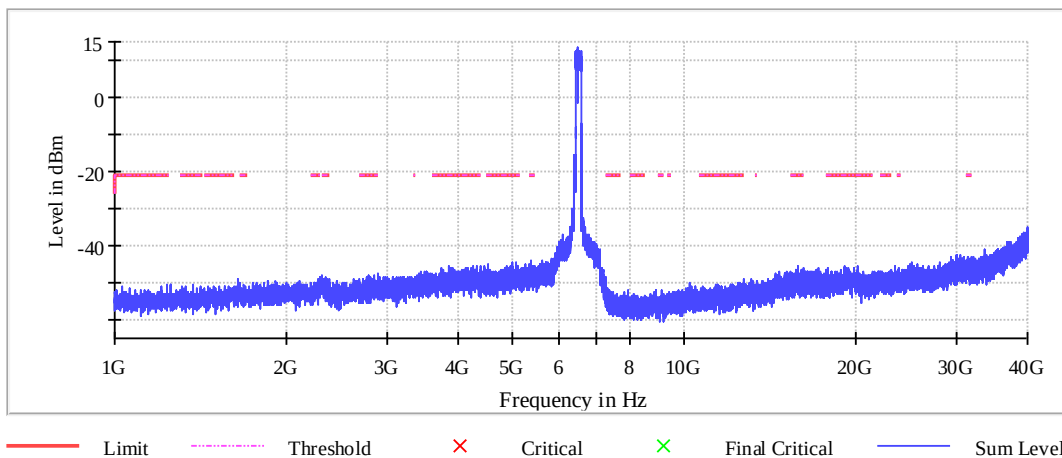
### Pre Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 36475.641386    | -41.1       | 19.9        | -21.2       |
| 36481.141214    | -41.2       | 20.0        | -21.2       |
| 36448.829724    | -41.5       | 20.3        | -21.2       |
| 36467.391644    | -41.6       | 20.4        | -21.2       |
| 36497.640699    | -41.9       | 20.7        | -21.2       |
| 36464.641730    | -42.0       | 20.8        | -21.2       |
| 36459.829380    | -42.1       | 20.9        | -21.2       |
| 36459.141902    | -42.2       | 21.0        | -21.2       |
| 36452.267117    | -42.4       | 21.2        | -21.2       |
| 36455.704509    | -42.4       | 21.2        | -21.2       |
| 36499.015656    | -42.6       | 21.4        | -21.2       |
| 36484.578607    | -42.6       | 21.4        | -21.2       |
| 36494.890785    | -42.7       | 21.5        | -21.2       |
| 36437.830068    | -42.7       | 21.5        | -21.2       |
| 36449.517203    | -42.8       | 21.6        | -21.2       |

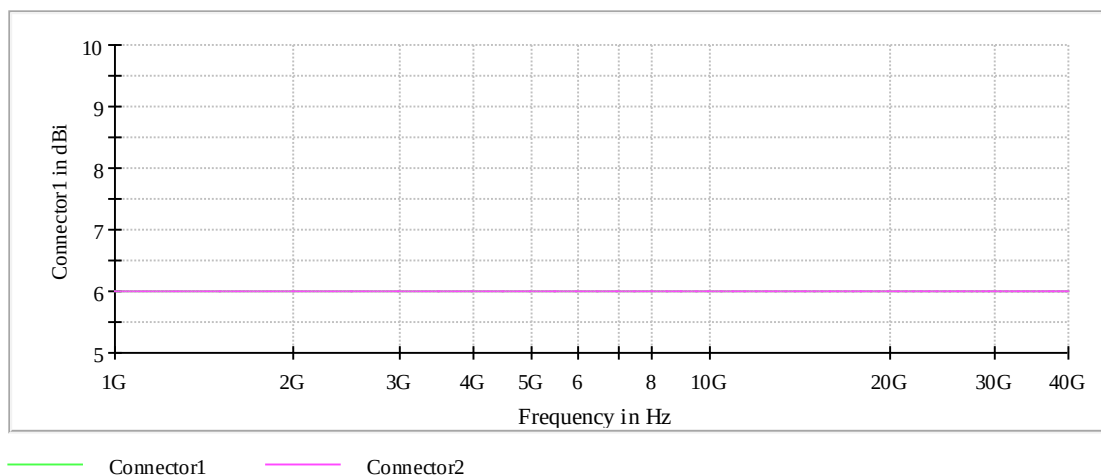
### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 1000.000000           | 5925.000000          | 1               | 1                 |
| 5925.000000           | 7125.000000          | 1               | 1                 |
| 7125.000000           | 18000.000000         | 1               | 1                 |
| 18000.000000          | 40000.000000         | 1               | 2                 |

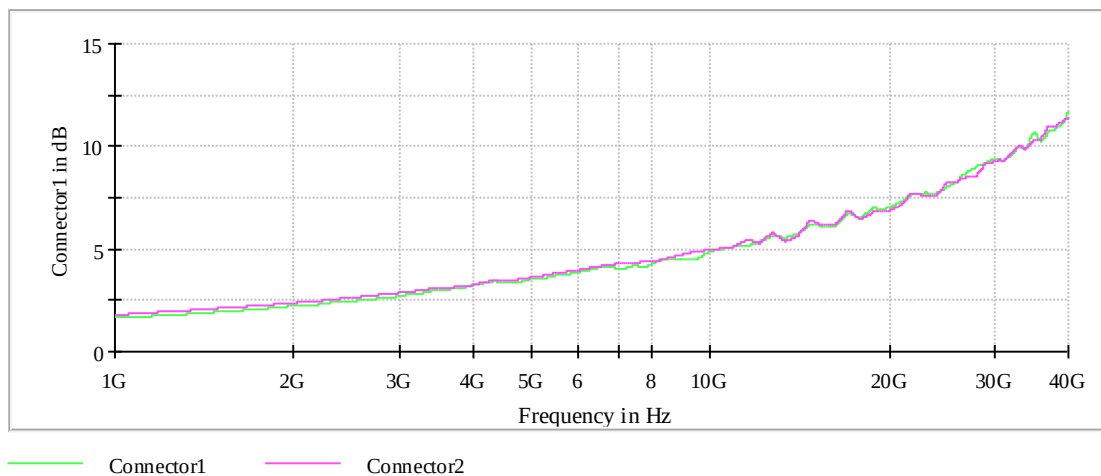
Restricted Band



Gain



Attenuation



## 2 PSD

### Summary

| Test                          | Frequency (MHz) | Nominal Power (dBm) | Nominal Bandwidth (MHz) | Result |
|-------------------------------|-----------------|---------------------|-------------------------|--------|
| Power Spectral Density (SA-2) | 6435.000        | 24.0                | 20.000000               | PASS   |
| Power Spectral Density (SA-2) | 6475.000        | 24.0                | 20.000000               | PASS   |
| Power Spectral Density (SA-2) | 6515.000        | 24.0                | 20.000000               | PASS   |
| Power Spectral Density (SA-2) | 6445.000        | 24.0                | 40.000000               | PASS   |
| Power Spectral Density (SA-2) | 6485.000        | 24.0                | 40.000000               | PASS   |
| Power Spectral Density (SA-2) | 6465.000        | 24.0                | 80.000000               | PASS   |
| Power Spectral Density (SA-2) | 6505.000        | 24.0                | 160.000000              | PASS   |

### Power Spectral Density (SA-2) (6435 MHz; 24.000 dBm; 20 MHz)

Customized settings.

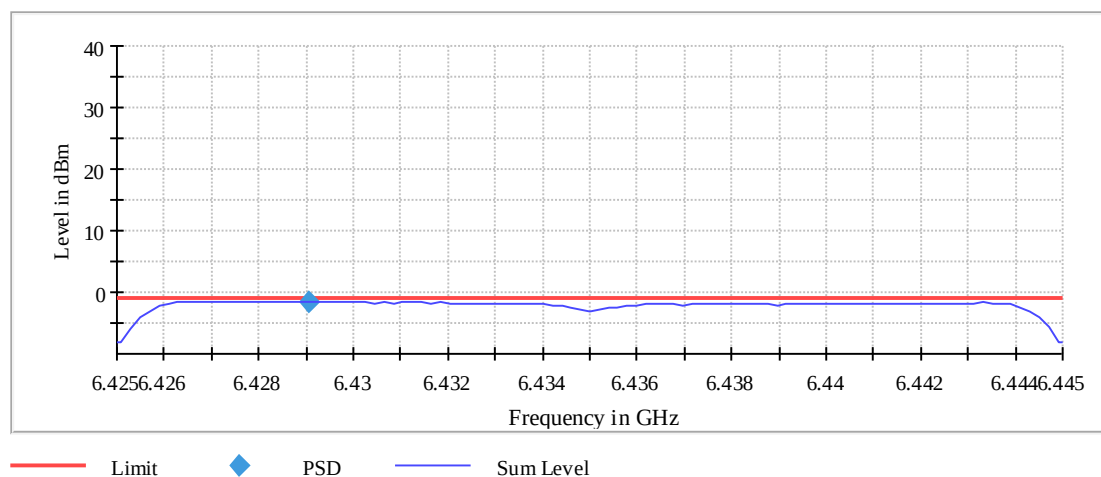
### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 6435.000000         | 6429.059406     | -1.465    | -0.8            | PASS   |

### Ports

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

Power Spectral Density (SA-2)





## Measurement

| Setting         | Instrument Value | Target Value  |
|-----------------|------------------|---------------|
| Start Frequency | 6.42500 GHz      | 6.42500 GHz   |
| Stop Frequency  | 6.44500 GHz      | 6.44500 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       | 1.000 ms         | AUTO          |
| Reference Level | 10.000 dBm       | 10.000 dBm    |
| Attenuation     | 30.000 dB        | AUTO          |
| Detector        | RMS              | RMS           |
| SweepCount      | 100              | 100           |
| Filter          | 3 dB             | 3 dB          |
| Trace Mode      | Average Power    | Average Power |
| SweepType       | Sweep            | Sweep         |
| Preamp          | off              | off           |

## Power Spectral Density (SA-2) (6475 MHz; 24.000 dBm; 20 MHz)

Customized settings.

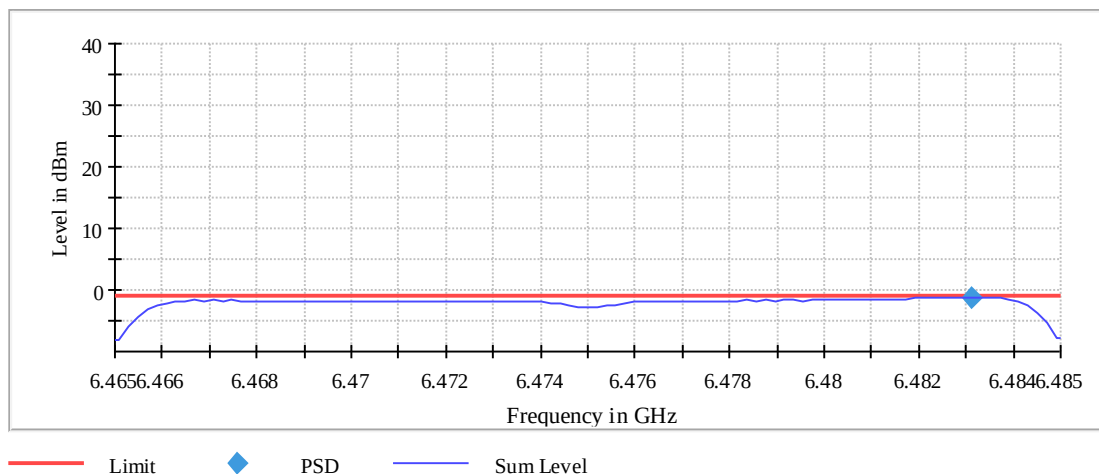
## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 6475.000000         | 6483.118812     | -1.224    | -0.8            | PASS   |

## Ports

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

Power Spectral Density (SA-2)



## Power Spectral Density (SA-2) (6515 MHz; 24.000 dBm; 20 MHz)

Customized settings.

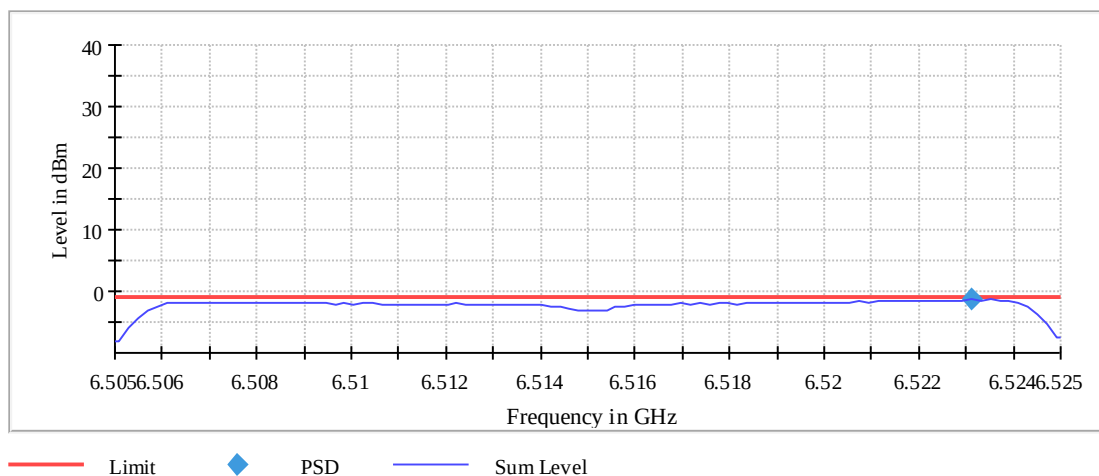
### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 6515.000000         | 6523.118812     | -1.329    | -0.8            | PASS   |

### Ports

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

Power Spectral Density (SA-2)



## Power Spectral Density (SA-2) (6445 MHz; 24.000 dBm; 40 MHz)

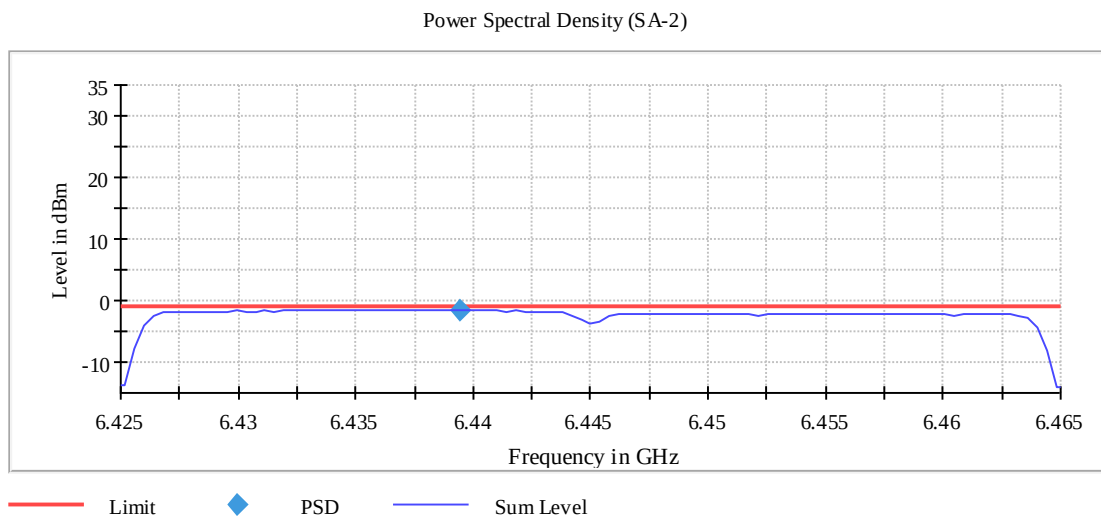
Customized settings.

### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 6445.000000         | 6439.455446     | -1.472    | -0.8            | PASS   |

### Ports

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



## Power Spectral Density (SA-2) (6485 MHz; 24.000 dBm; 40 MHz)

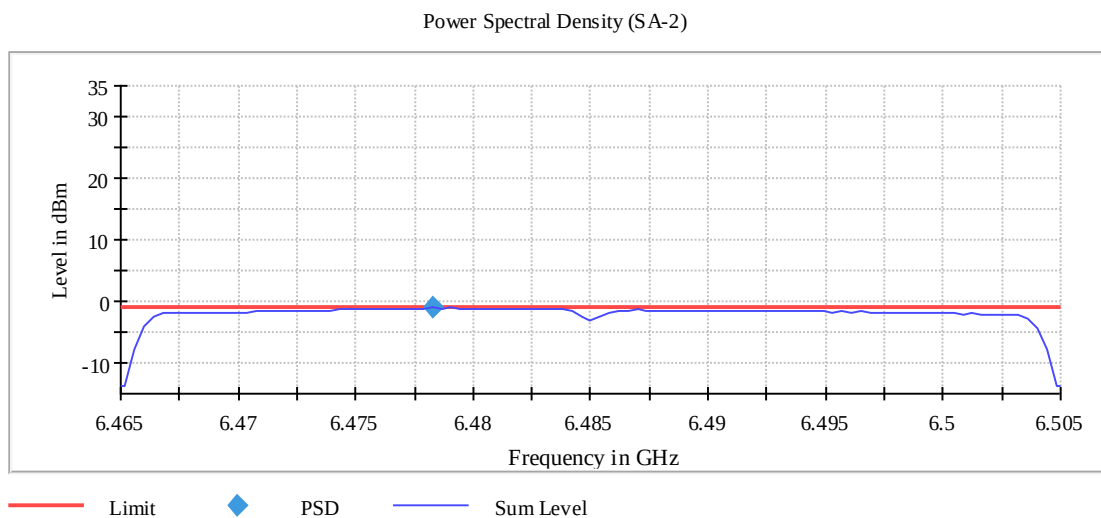
Customized settings.

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 6485.000000         | 6478.267327     | -1.060    | -0.8            | PASS   |

## Ports

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



## Power Spectral Density (SA-2) (6465 MHz; 24.000 dBm; 80 MHz)

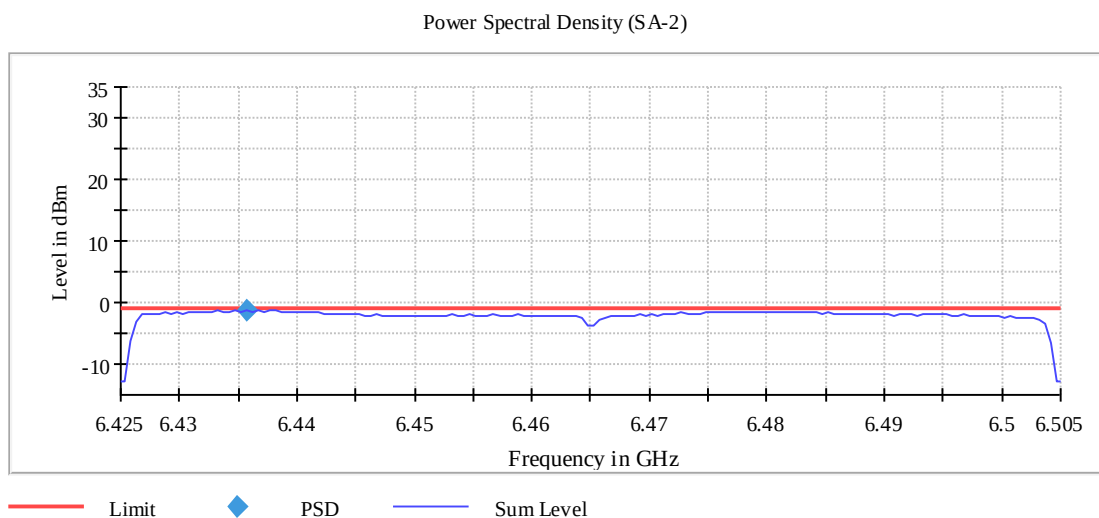
Customized settings.

### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 6465.000000         | 6435.750000     | -1.159    | -0.8            | PASS   |

### Ports

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



## Power Spectral Density (SA-2) (6505 MHz; 24.000 dBm; 160 MHz)

Customized settings.

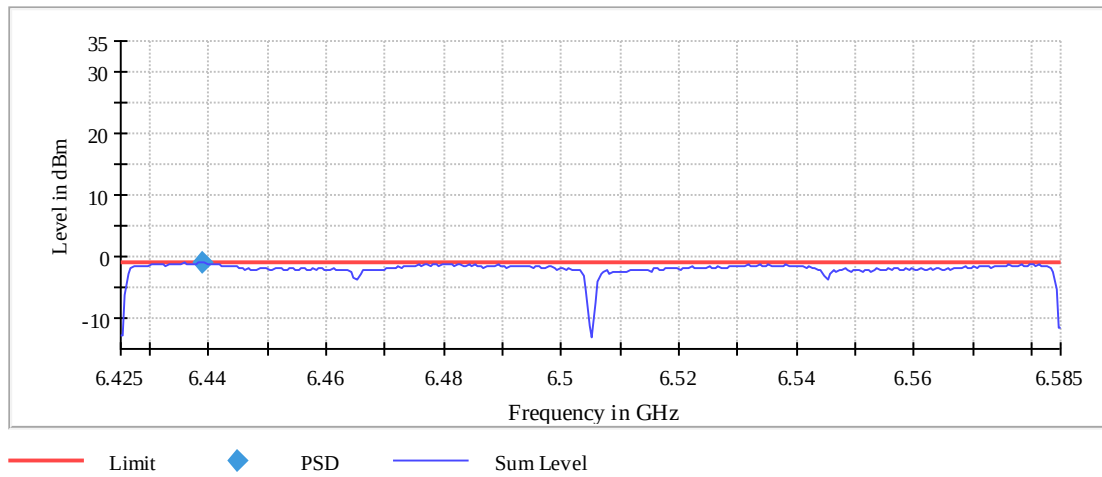
### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 6505.000000         | 6438.750000     | -1.016    | -0.8            | PASS   |

### Ports

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

Power Spectral Density (SA-2)



**-- End of Report --**