**427 West 12800 South**
**Draper, UT 84020**

# Test Report Attachment

| | |
|---|---|
| **FCC ID** | SWX-WAVEML |
| **ISED ID** | 6545A-WAVEML |
| **Equipment Under Test** | Wave-MLO5 |
| **Test Report Serial Number** | TR9530_01 |
| **Date of Test** | 5 September 2024 |
| **Report Issue Date** | 20 November |

## Test Personnel

| | |
|---|---|
| **Testing performed by** | Evan Hartzell |

## 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 UNII-2 Band

## 1.1 UNII-2a

### 1.1.1 Omni Antenna

## Summary

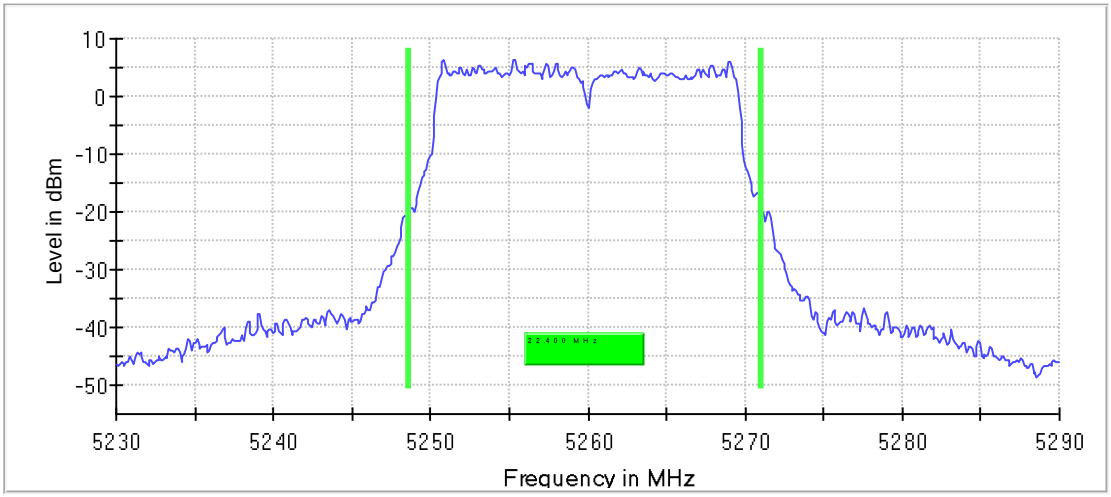
| Test | Frequency (MHz) | Nominal Power (dBm) | Nominal Bandwidth (MHz) | Result |
|---|---|---|---|---|
| Emission Bandwidth 26 dB | 5260.000 | 10.0 | 20.000000 | PASS |
| RF output power | 5260.000 | 10.0 | 20.000000 | PASS |
| Power Spectral Density | 5260.000 | 10.0 | 20.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5260.000 | 10.0 | 20.000000 | PASS |
| Emission Bandwidth 26 dB | 5280.000 | 10.0 | 20.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5280.000 | 10.0 | 20.000000 | PASS |
| Emission Bandwidth 26 dB | 5320.000 | 10.0 | 20.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5320.000 | 10.0 | 20.000000 | PASS |
| Emission Bandwidth 26 dB | 5270.000 | 10.0 | 40.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5270.000 | 10.0 | 40.000000 | PASS |
| Emission Bandwidth 26 dB | 5310.000 | 10.0 | 40.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5310.000 | 10.0 | 40.000000 | PASS |
| Emission Bandwidth 26 dB | 5290.000 | 10.0 | 80.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5290.000 | 10.0 | 80.000000 | PASS |
| Emission Bandwidth 26 dB | 5250.000 | 10.0 | 160.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5250.000 | 10.0 | 160.000000 | PASS |

## Emission Bandwidth 26 dB (5260 MHz; 10 dBi Omni (10 dBm); 20 MHz)

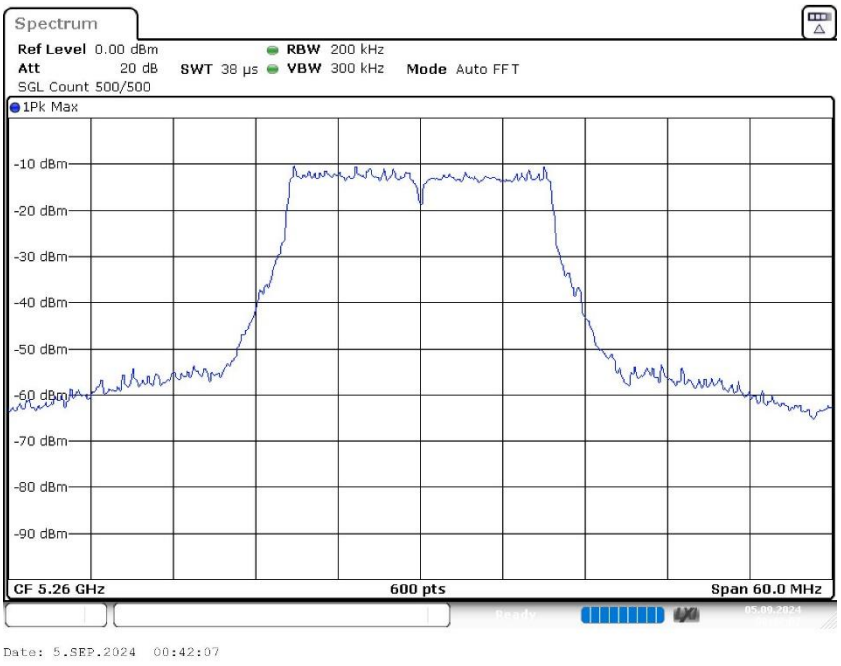
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5260.000000 | 22.400000 | --- | --- | 5248.650000 | 5271.050000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5260.000000 | 6.3 | 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 |
| Sweeptime | 37.969 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 |

## RF output power (5260 MHz; 10 dBi Omni (10 dBm); 20 MHz)

## Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---|---|---|---|---|---|
| 5260.000000 | 19.8 | 20.0 | 29.8 | 99.711 | PASS |

## OSP PowerMeter settings

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

## Power Spectral Density (5260 MHz; 10 dBi Omni (10 dBm); 20 MHz)

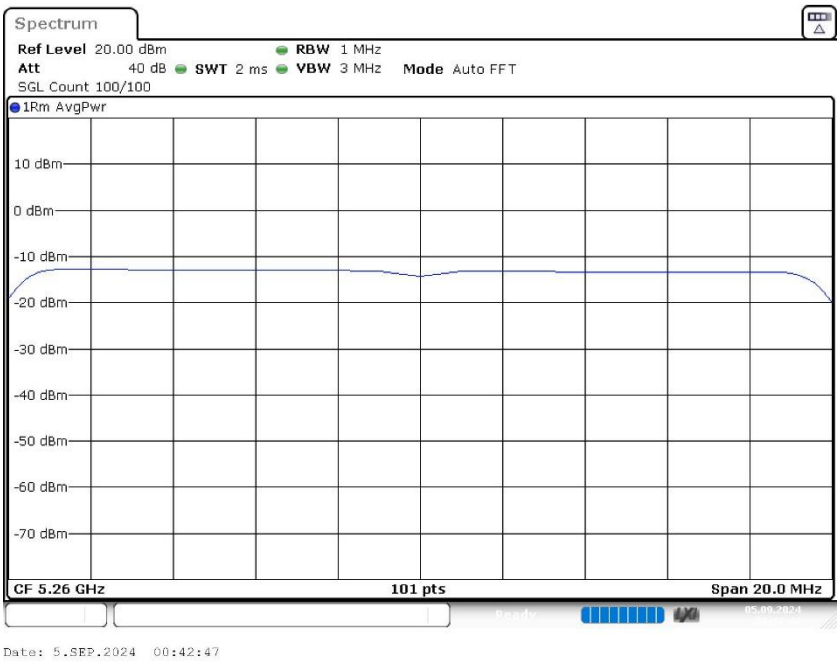
## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5260.000000 | 5251.485149 | 6.930 | 7.0 | PASS |

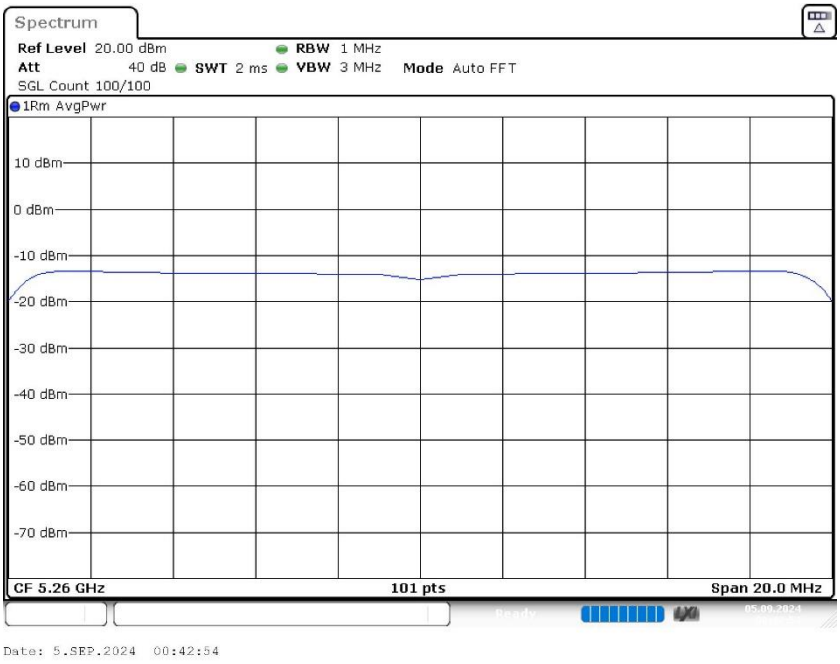
## Ports

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

PSD Connector 1




PSD Connector 2




## Measurement

| Setting | Instrument Value | Target Value |
|---|---|---|
| Start Frequency | 5.25000 GHz | 5.25000 GHz |

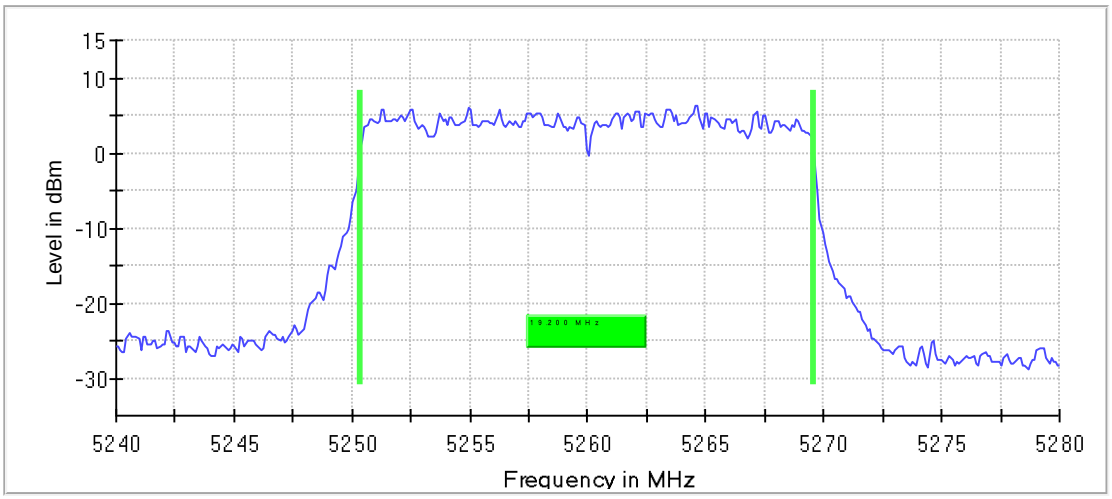
| | | |
|---|---|---|
| Stop Frequency | 5.27000 GHz | 5.27000 GHz |
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 101 | ~ 40 |
| Sweeptime | 2.020 ms | 2.020 ms |
| Reference Level | 20.000 dBm | 20.000 dBm |
| Attenuation | 40.000 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; 10 dBi Omni (10 dBm); 20 MHz)

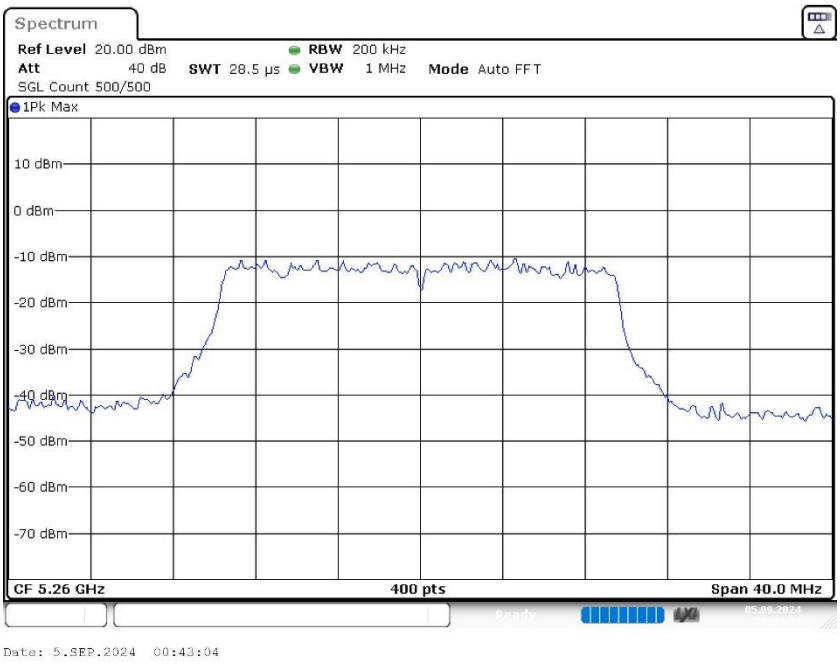
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5260.000000 | 19.200000 | --- | --- | 5250.350000 | 5269.550000 |

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




Bandwidth




## Measurement

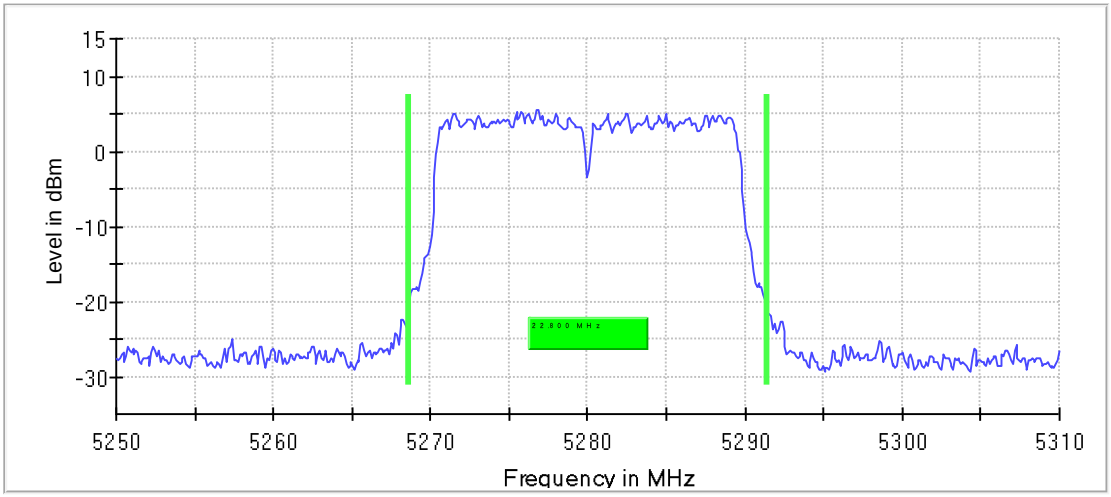
| Setting | Instrument Value | Target Value |
|---|---|---|
| Start Frequency | 5.24000 GHz | 5.24000 GHz |
| Stop Frequency | 5.28000 GHz | 5.28000 GHz |
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 200.000 kHz | >= 200.000 kHz |
| VBW | 1.000 MHz | >= 600.000 kHz |
| SweepPoints | 400 | ~ 400 |
| Sweeptime | 28.477 µs | AUTO |
| Reference Level | 20.000 dBm | 20.000 dBm |
| Attenuation | 40.000 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; 10 dBi Omni (10 dBm); 20 MHz)

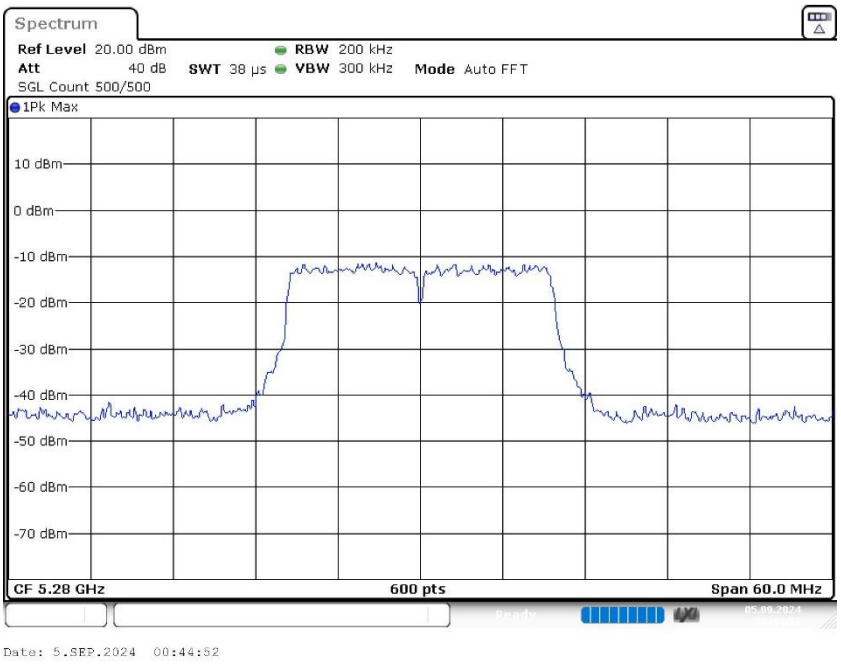
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5280.000000 | 22.800000 | --- | --- | 5268.650000 | 5291.450000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5280.000000 | 5.5 | PASS |




Bandwidth

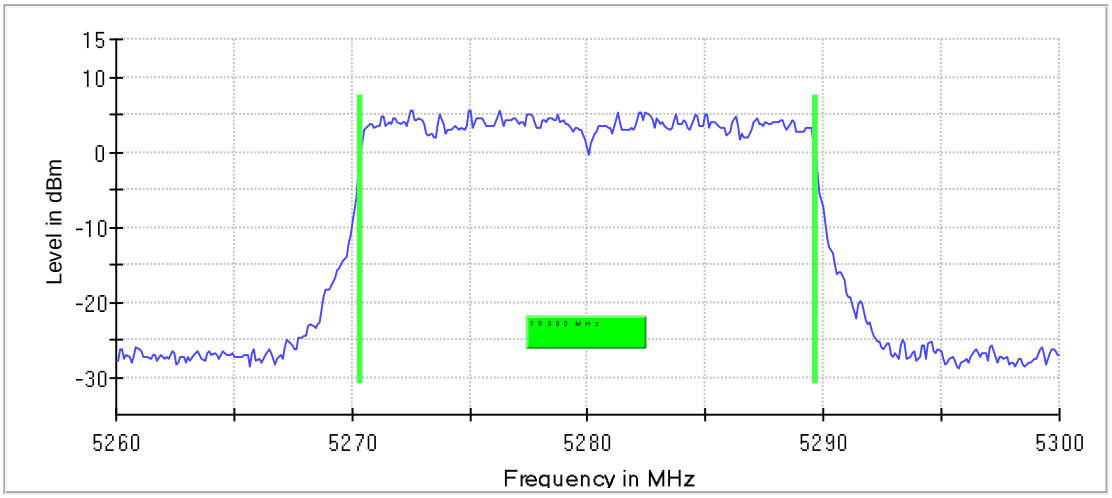



## Occupied Channel Bandwidth 99% (5280 MHz; 10 dBi Omni (10 dBm); 20 MHz)

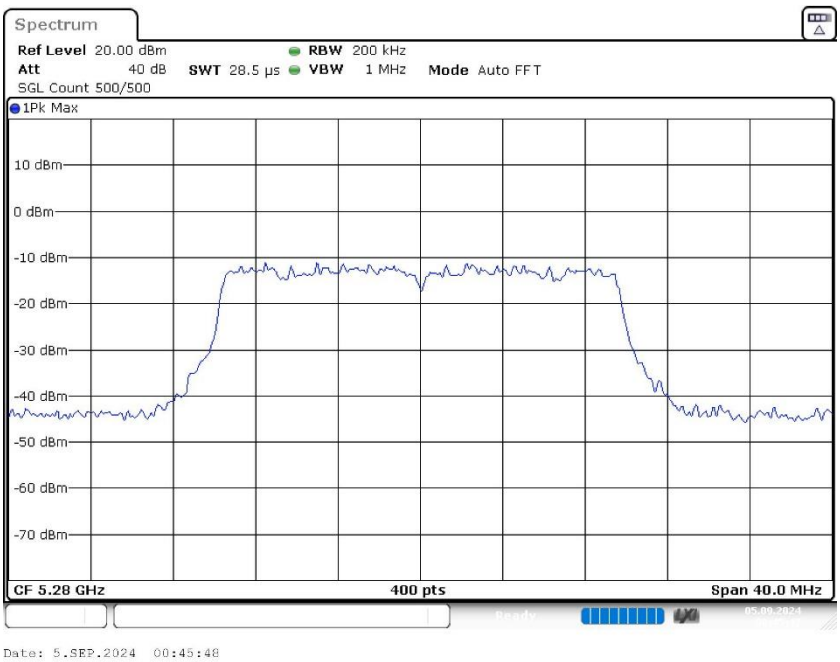
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5280.000000 | 19.300000 | --- | --- | 5270.350000 | 5289.650000 |

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




Bandwidth

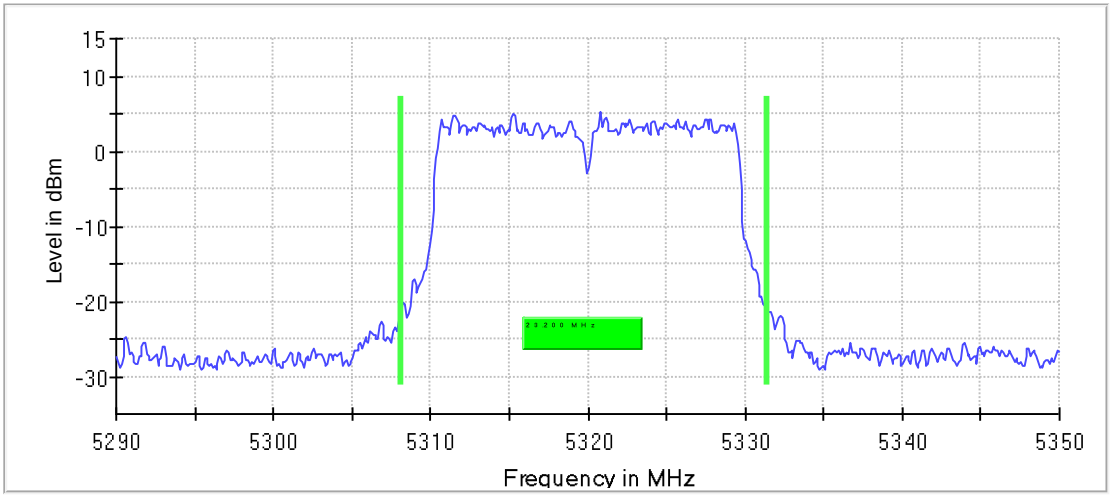



## Emission Bandwidth 26 dB (5320 MHz; 10 dBi Omni (10 dBm); 20 MHz)

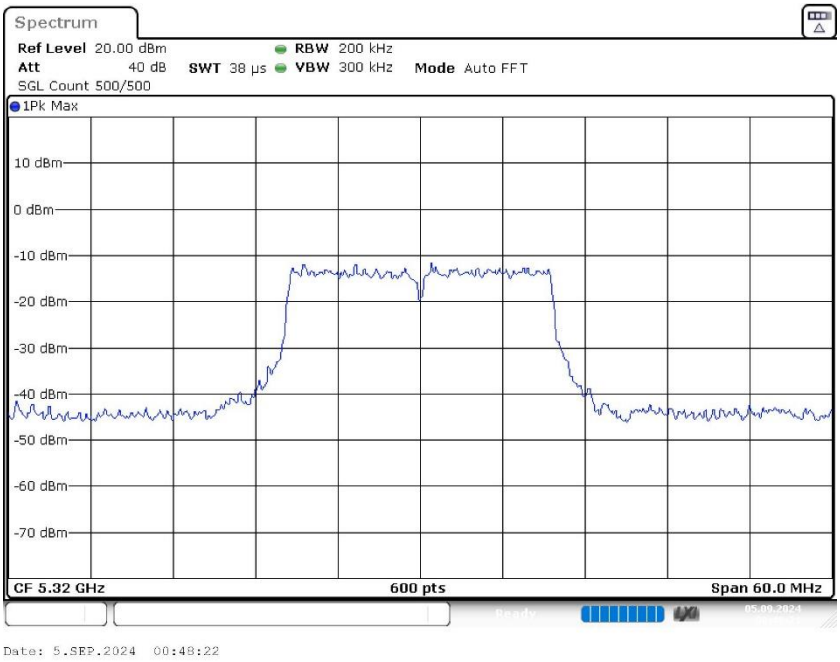
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5320.000000 | 23.200000 | --- | --- | 5308.150000 | 5331.350000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5320.000000 | 5.3 | PASS |




Bandwidth

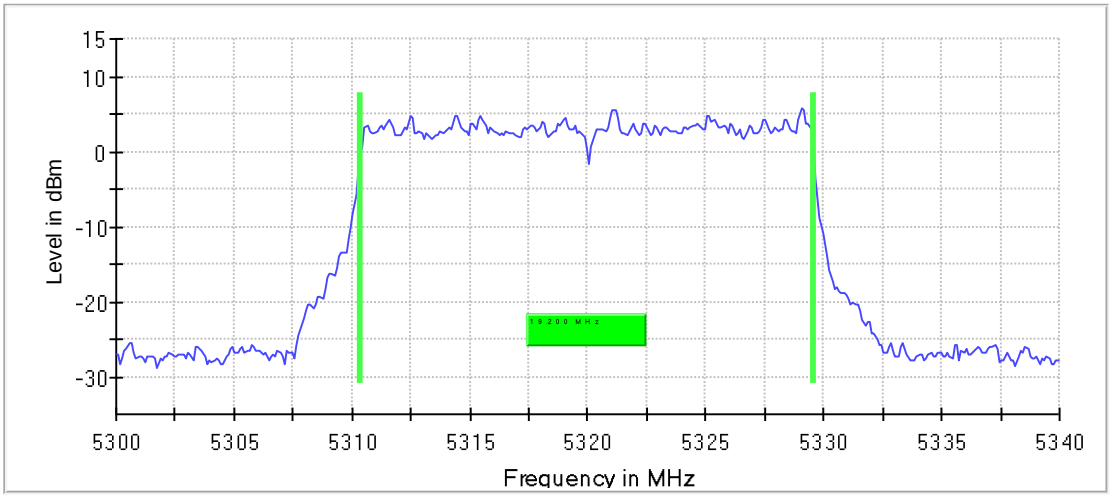


# Occupied Channel Bandwidth 99% (5320 MHz; 10 dBi Omni (10 dBm); 20 MHz)

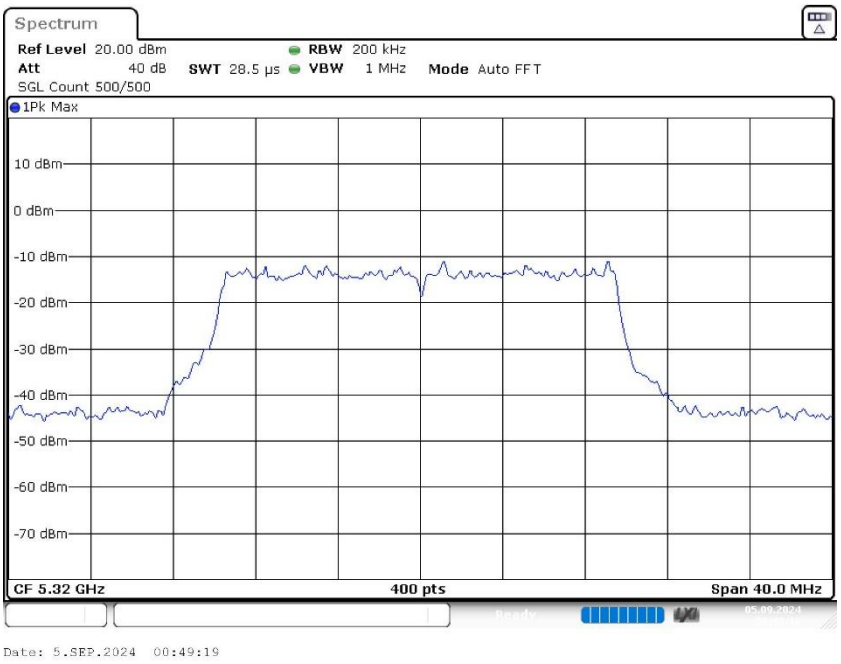
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5320.000000 | 19.200000 | --- | --- | 5310.350000 | 5329.550000 |

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




Bandwidth

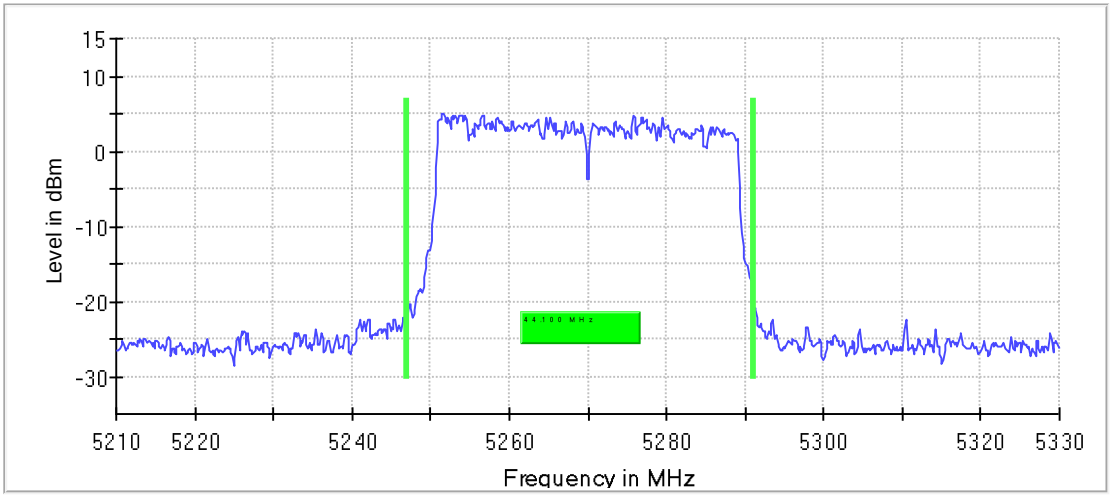



## Emission Bandwidth 26 dB (5270 MHz; 10 dBi Omni (10 dBm); 40 MHz)

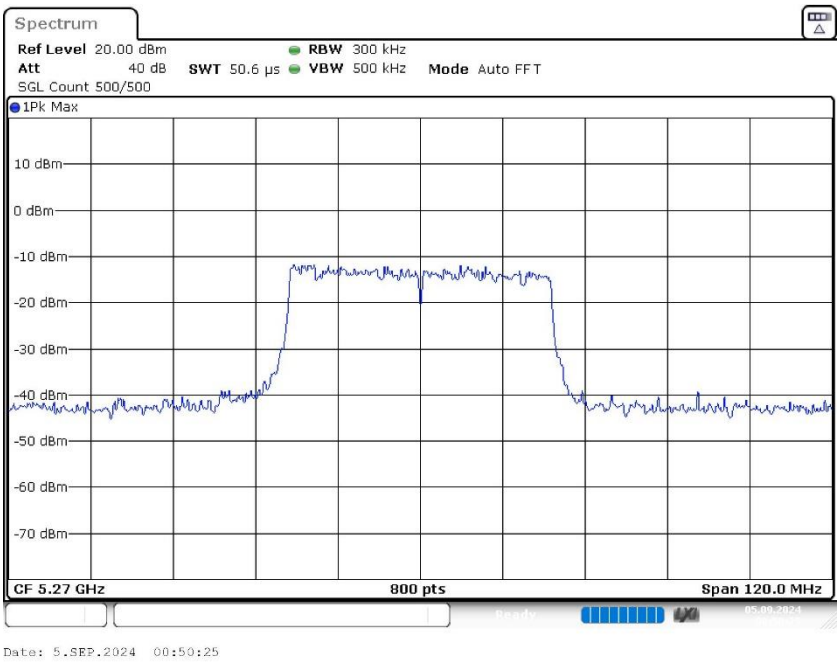
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5270.000000 | 44.100000 | --- | --- | 5246.975000 | 5291.075000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5270.000000 | 5.0 | PASS |



Bandwidth

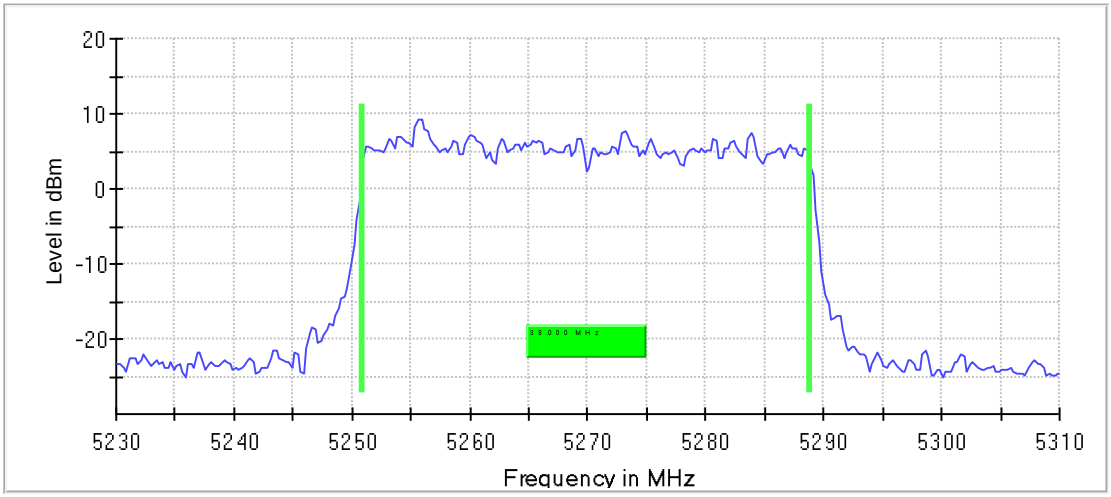



## Occupied Channel Bandwidth 99% (5270 MHz; 10 dBi Omni (10 dBm); 40 MHz)

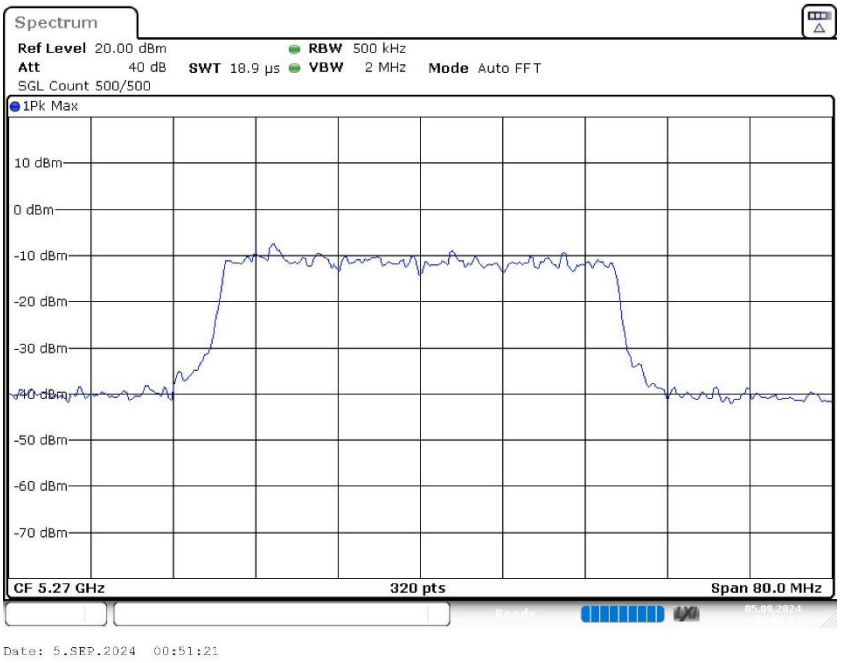
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5270.000000 | 38.000000 | --- | --- | 5250.875000 | 5288.875000 |

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




Bandwidth

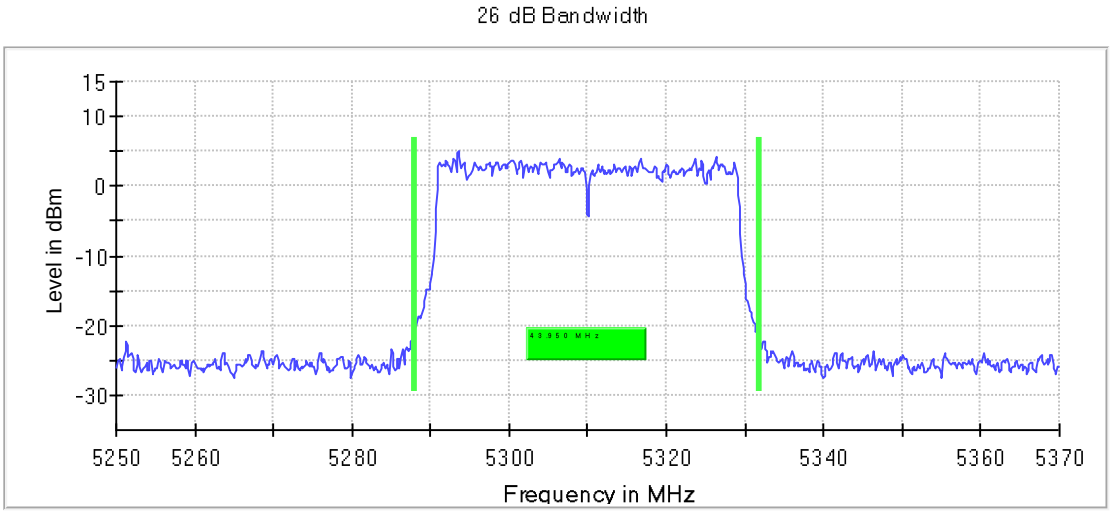



# Emission Bandwidth 26 dB (5310 MHz; 10 dBi Omni (10 dBm); 40 MHz)

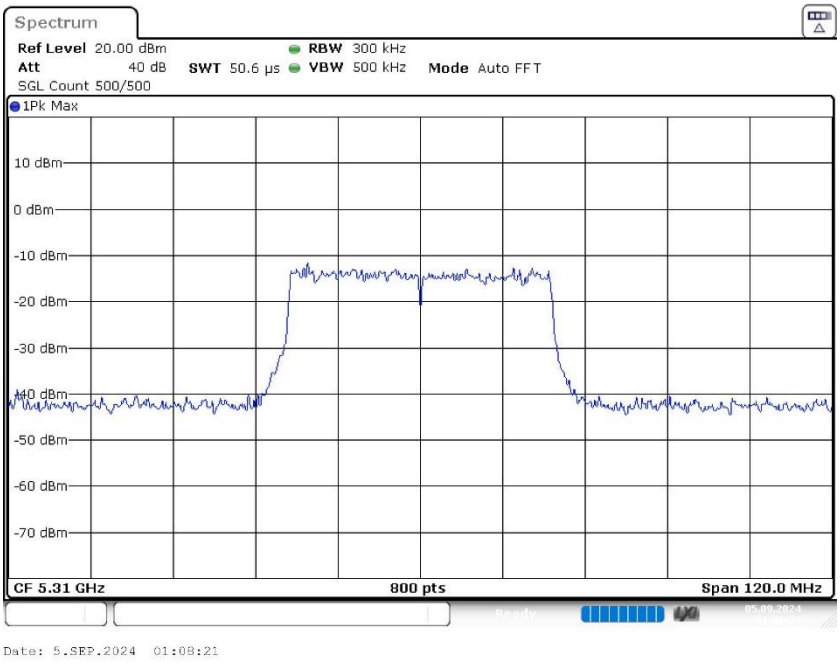
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5310.000000 | 43.950000 | --- | --- | 5287.875000 | 5331.825000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5310.000000 | 5.1 | PASS |




Bandwidth

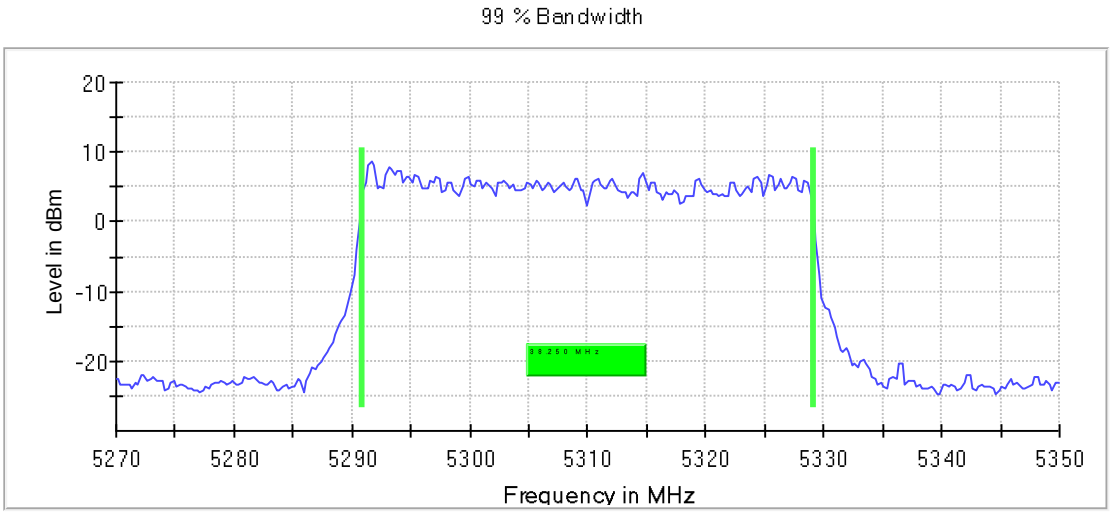



## Occupied Channel Bandwidth 99% (5310 MHz; 10 dBi Omni (10 dBm); 40 MHz)

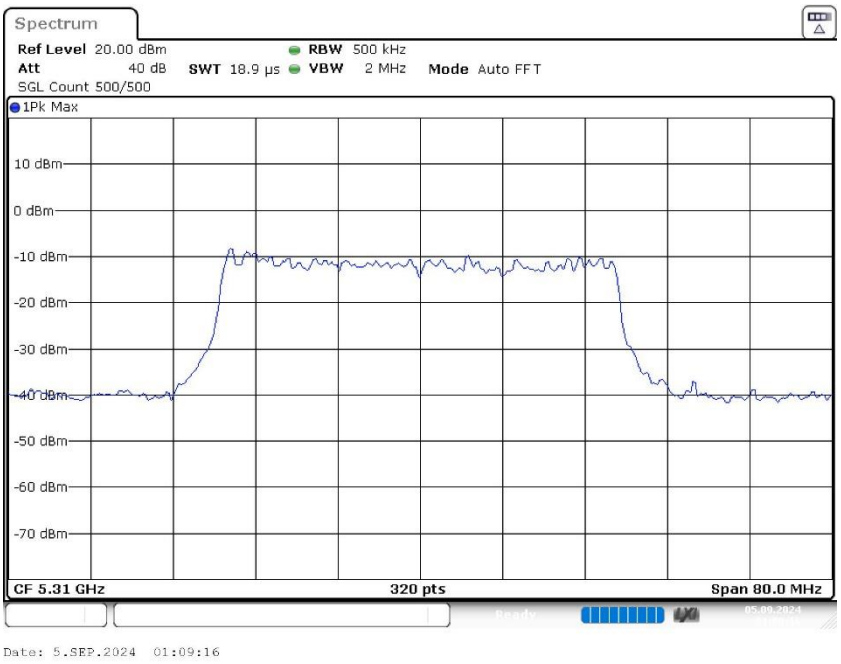
# 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5310.000000 | 38.250000 | --- | --- | 5290.875000 | 5329.125000 |

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




Bandwidth

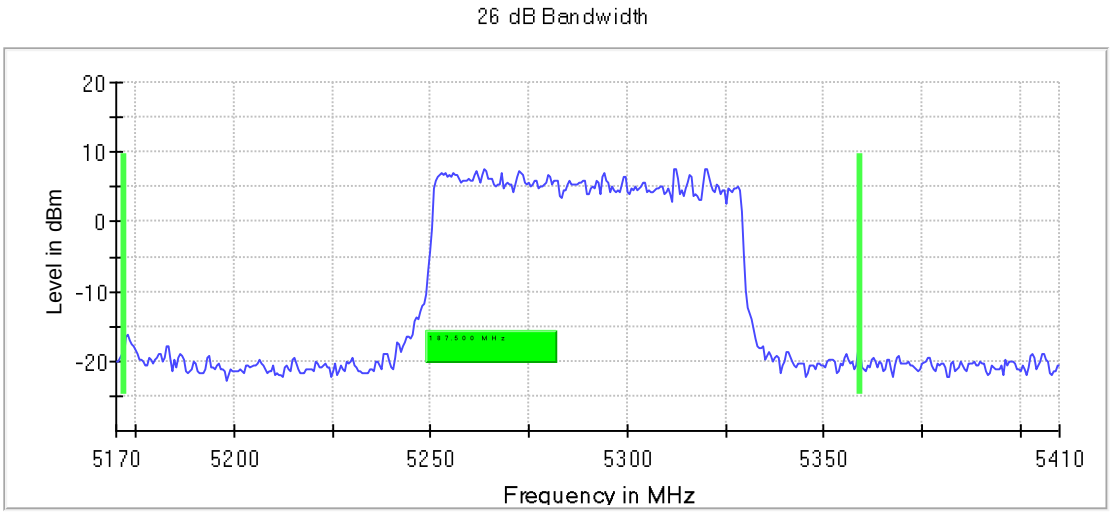



## Emission Bandwidth 26 dB (5290 MHz; 10 dBi Omni (10 dBm); 80 MHz)

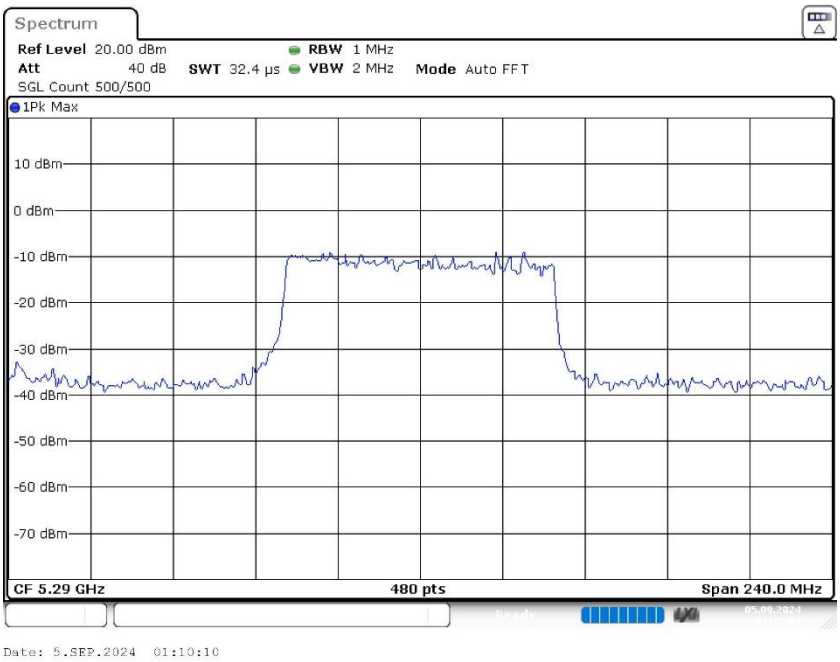
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5290.000000 | 187.500000 | --- | --- | 5171.750000 | 5359.250000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5290.000000 | 7.7 | PASS |



Bandwidth

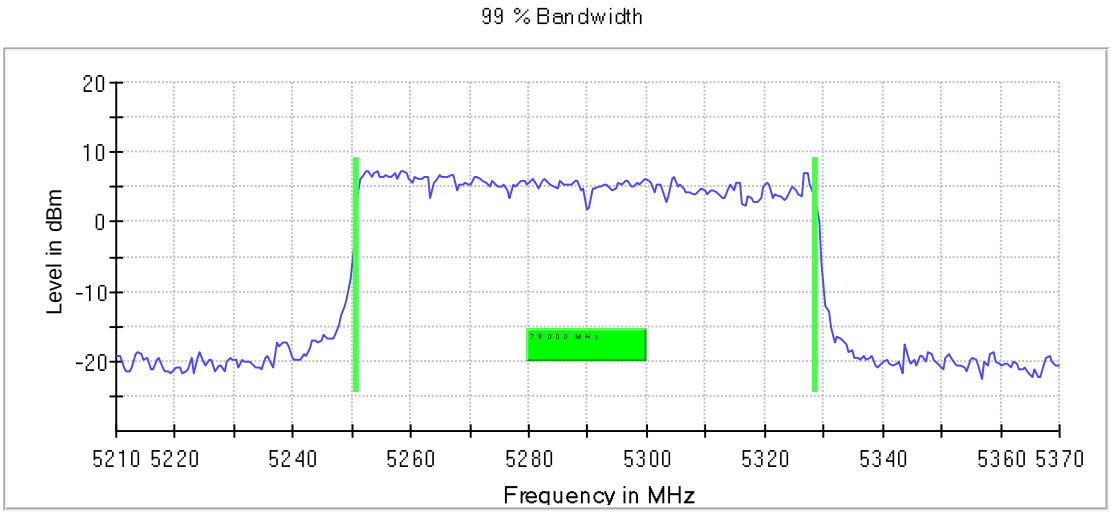



## Occupied Channel Bandwidth 99% (5290 MHz; 10 dBi Omni (10 dBm); 80 MHz)

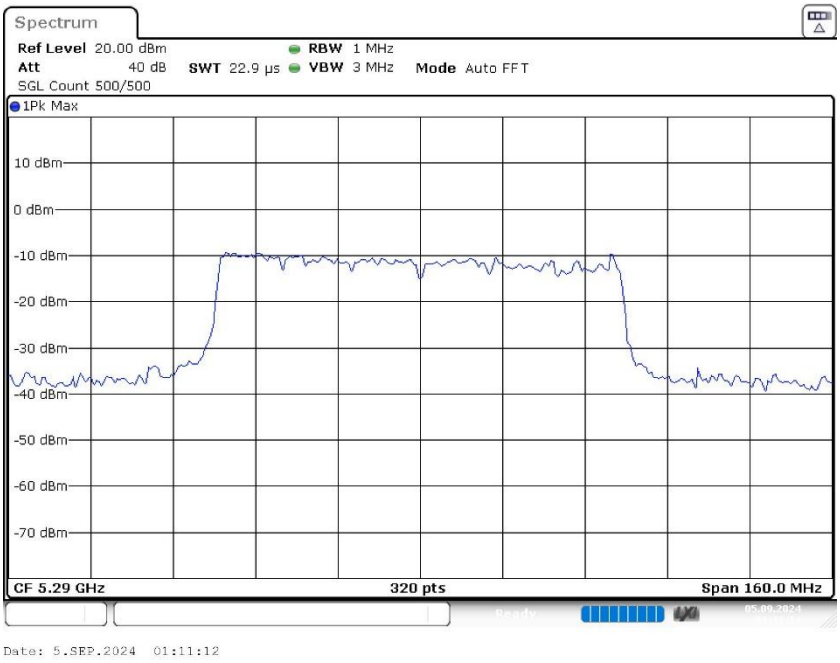
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5290.000000 | 78.000000 | --- | --- | 5250.750000 | 5328.750000 |

| DUT Frequency (MHz) | Result |
|---|---|
| 5290.000000 | PASS |




Bandwidth

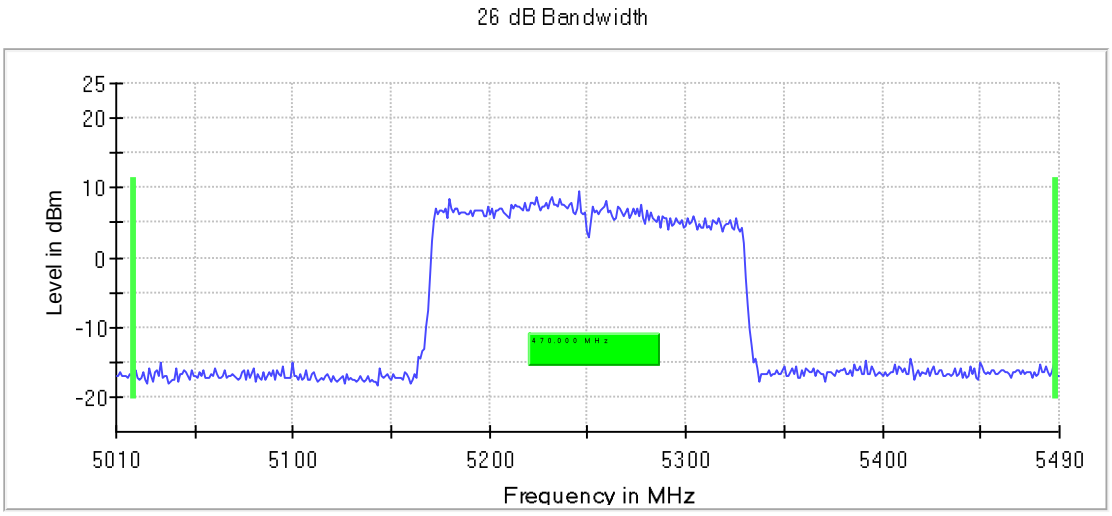



## Emission Bandwidth 26 dB (5250 MHz; 10 dBi Omni (10 dBm); 160 MHz)

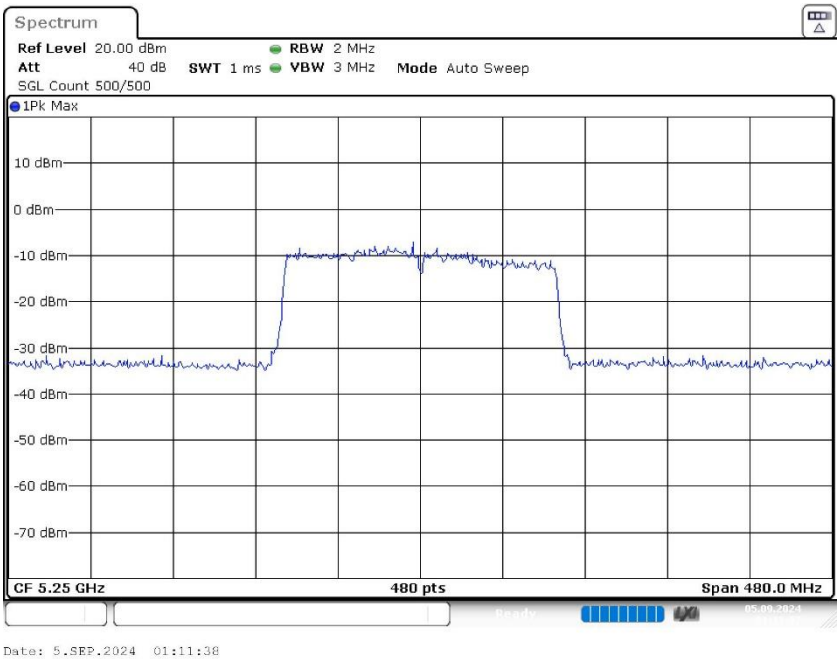
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5250.000000 | 470.000000 | --- | --- | 5018.500000 | 5488.500000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5250.000000 | 9.6 | PASS |




Bandwidth

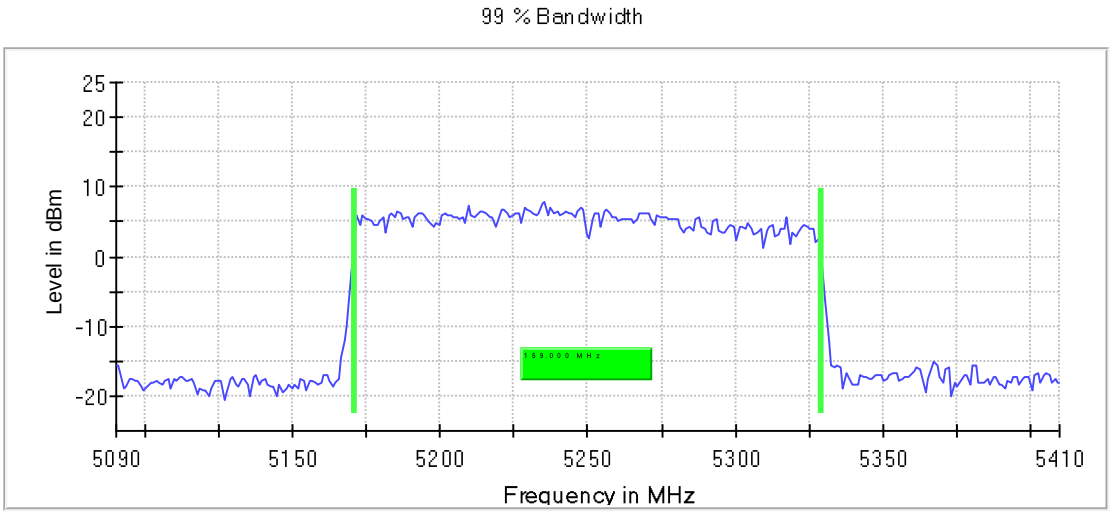



## Occupied Channel Bandwidth 99% (5250 MHz; 10 dBi Omni (10 dBm); 160 MHz)

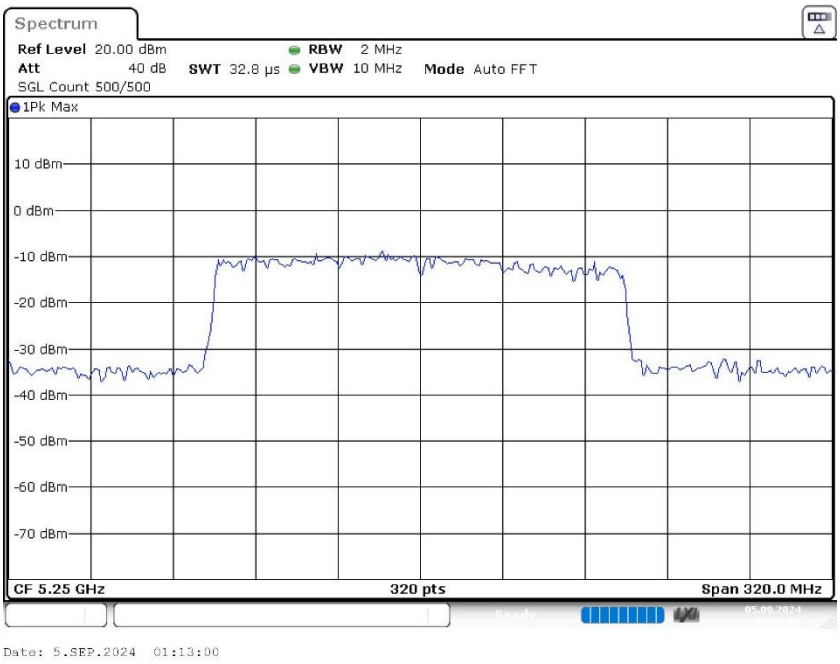
# 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5250.000000 | 159.000000 | --- | --- | 5170.500000 | 5329.500000 |

| DUT Frequency (MHz) | Result |
|---|---|
| 5250.000000 | PASS |




Bandwidth


Spectrum
Ref Level 20.00 dBm
RBW 2 MHz
Att 40 dB
SWT 32.8 µs
VBW 10 MHz
Mode Auto FFT
SGL Count 500/500
1Pk Max
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 5.25 GHz
320 pts
Span 320.0 MHz
Date: 5.SEP.2024 01:13:00

## Summary

| Test | Frequency (MHz) | Nominal Power (dBm) | Nominal Bandwidth (MHz) | Result |
|---|---|---|---|---|
| Power Spectral Density | 5260.000 | 10.0 | 20.000000 | PASS |
| Power Spectral Density | 5280.000 | 10.0 | 20.000000 | PASS |
| Power Spectral Density | 5320.000 | 10.0 | 20.000000 | PASS |
| Power Spectral Density | 5270.000 | 10.0 | 40.000000 | PASS |
| Power Spectral Density | 5310.000 | 10.0 | 40.000000 | PASS |
| Power Spectral Density | 5290.000 | 10.0 | 80.000000 | PASS |
| Power Spectral Density | 5250.000 | 10.0 | 160.000000 | PASS |

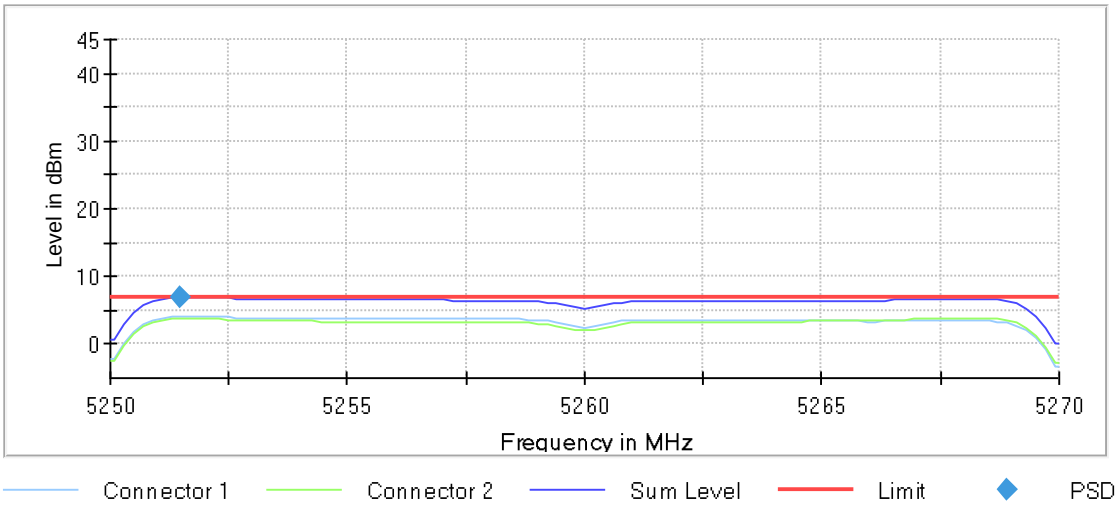
# Power Spectral Density (5260 MHz; 10 dBi Omni (10 dBm); 20 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5260.000000 | 5251.485149 | 6.930 | 7.0 | PASS |

## Ports

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




## 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 | 20.000 dBm | 20.000 dBm |
| Attenuation | 40.000 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 |

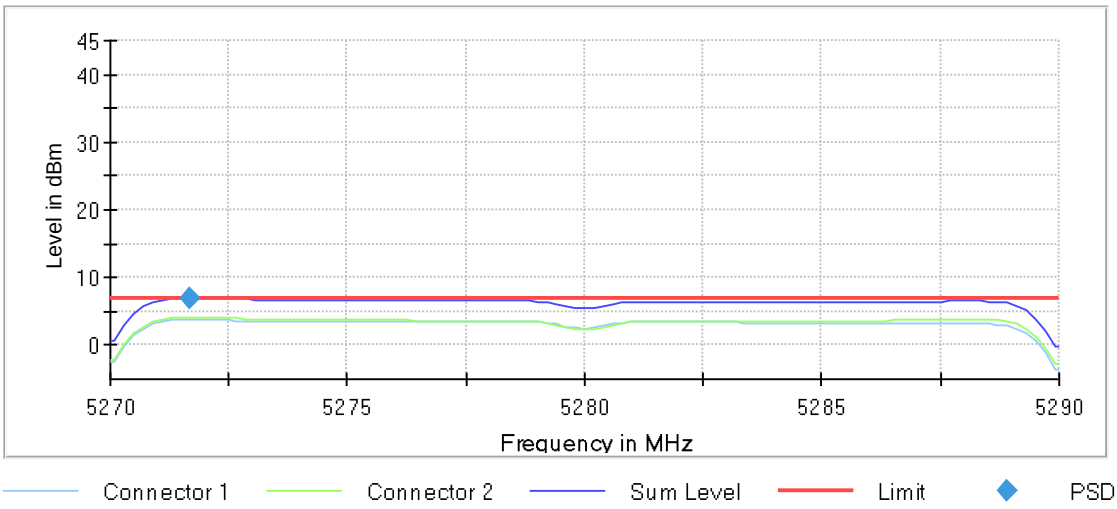
## Power Spectral Density (5280 MHz; 10 dBi Omni (10 dBm); 20 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5280.000000 | 5271.683168 | 6.926 | 7.0 | PASS |

## Ports

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



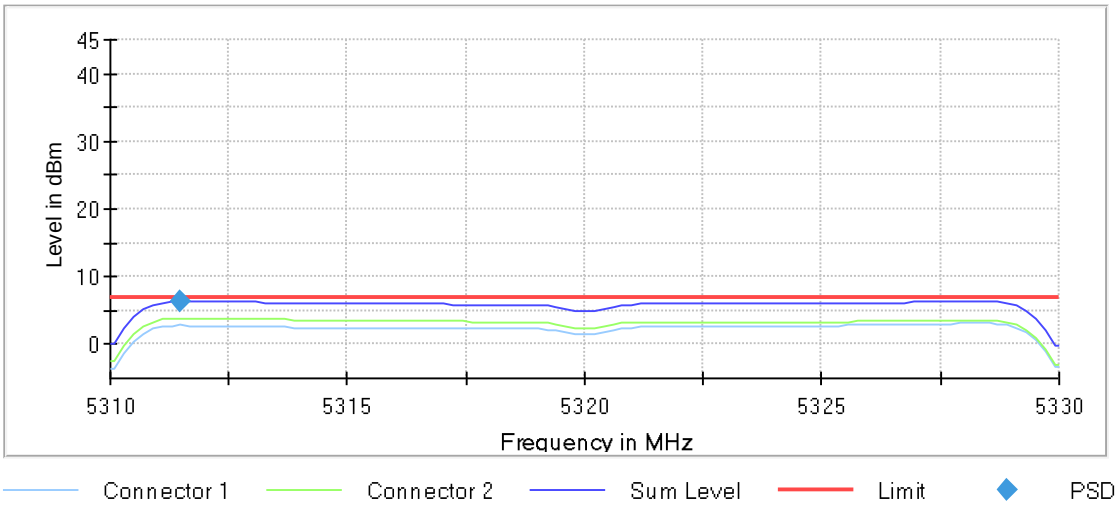

## Power Spectral Density (5320 MHz; 10 dBi Omni (10 dBm); 20 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5320.000000 | 5311.485149 | 6.394 | 7.0 | PASS |

## Ports

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



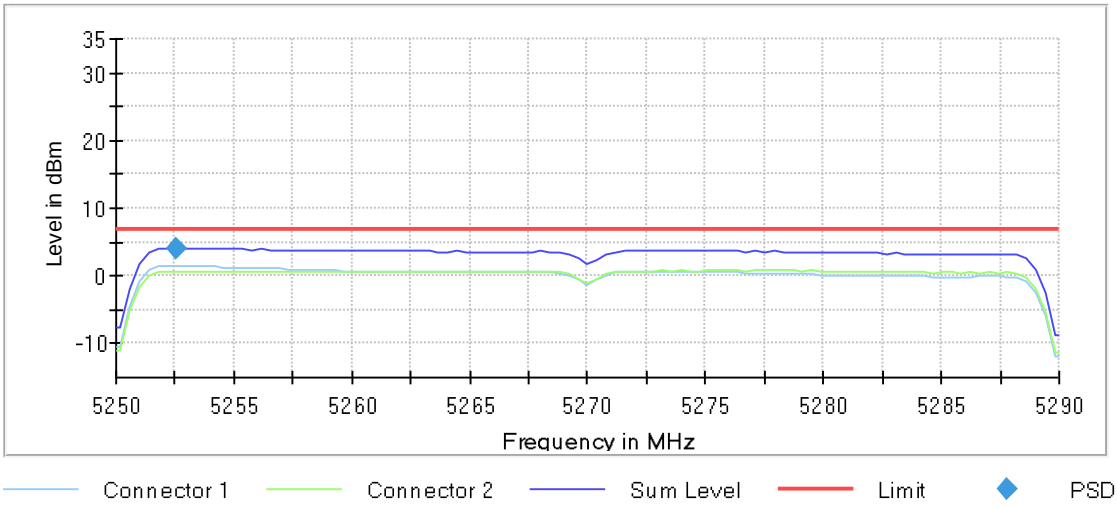

## Power Spectral Density (5270 MHz; 10 dBi Omni (10 dBm); 40 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5270.000000 | 5252.574257 | 4.085 | 7.0 | PASS |

## Ports

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



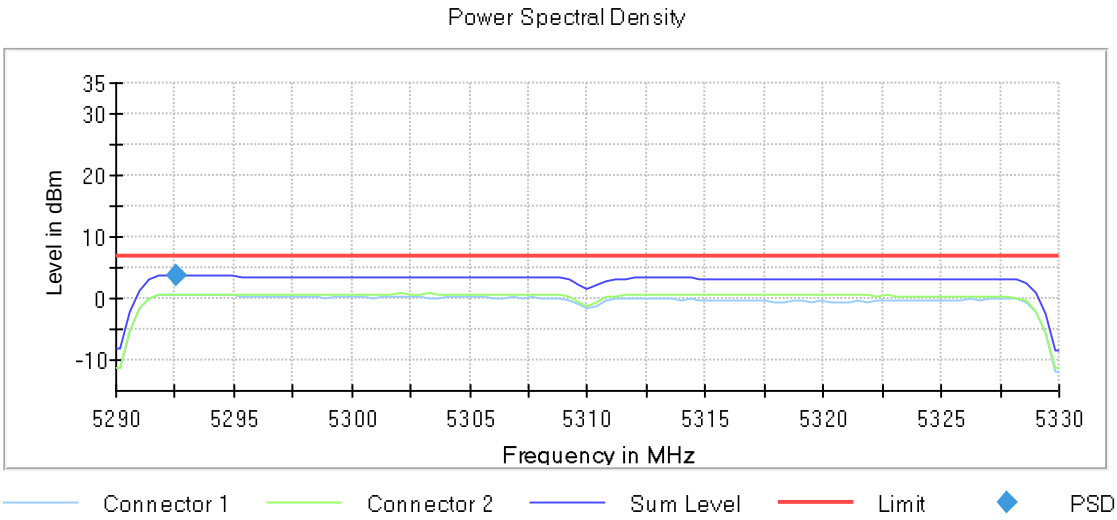
# Power Spectral Density (5310 MHz; 10 dBi Omni (10 dBm); 40 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5310.000000 | 5292.574257 | 3.709 | 7.0 | PASS |

## Ports

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



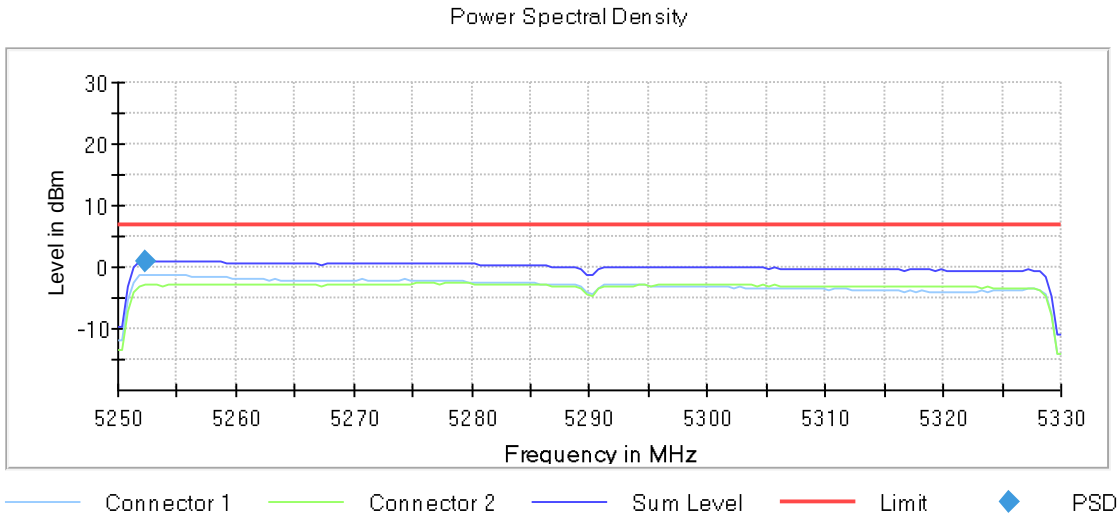

# Power Spectral Density (5290 MHz; 10 dBi Omni (10 dBm); 80 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5290.000000 | 5252.250000 | 1.013 | 7.0 | PASS |

## Ports

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



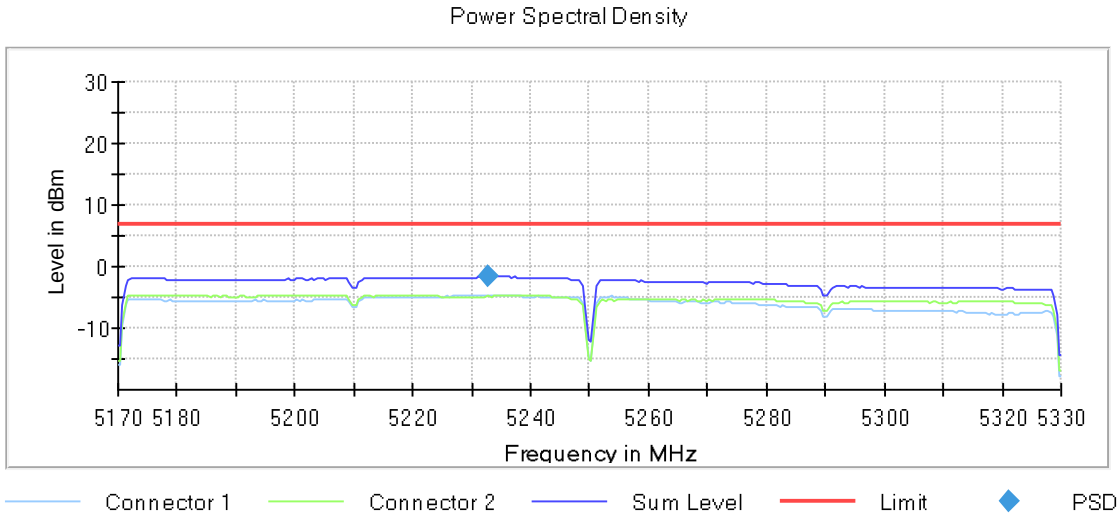

## Power Spectral Density (5250 MHz; 10 dBi Omni (10 dBm); 160 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5250.000000 | 5232.750000 | -1.676 | 7.0 | PASS |

## Ports

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



## 1.2 UNII-2c

### 1.2.1 Omni Antenna

## Summary

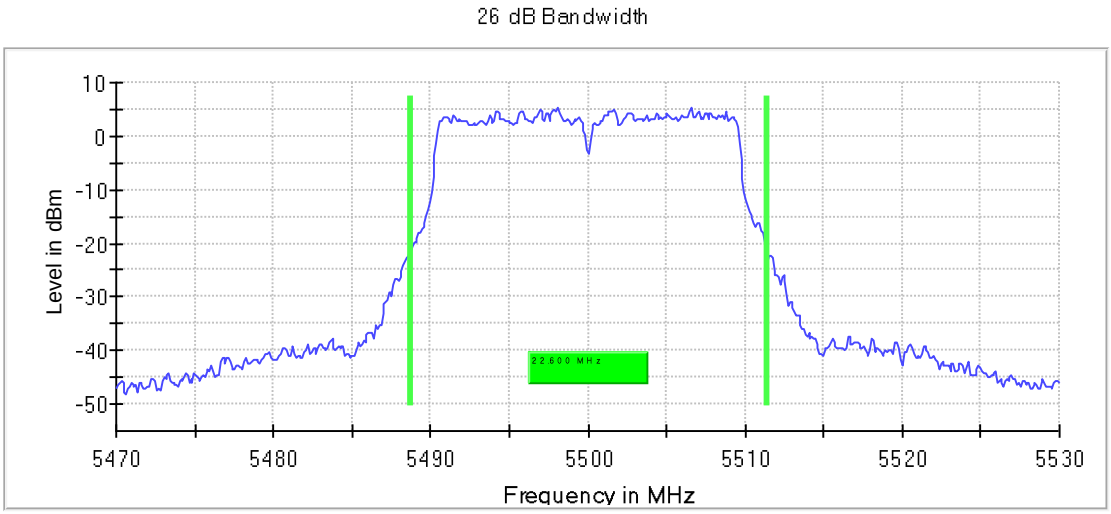
| Test | Frequency (MHz) | Nominal Power (dBm) | Nominal Bandwidth (MHz) | Result |
|---|---|---|---|---|
| Emission Bandwidth 26 dB | 5500.000 | 10.0 | 20.000000 | PASS |
| RF output power | 5500.000 | 10.0 | 20.000000 | PASS |
| Power Spectral Density | 5500.000 | 10.0 | 20.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5500.000 | 10.0 | 20.000000 | PASS |
| Emission Bandwidth 26 dB | 5600.000 | 10.0 | 20.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5600.000 | 10.0 | 20.000000 | PASS |
| Emission Bandwidth 26 dB | 5720.000 | 10.0 | 20.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5720.000 | 10.0 | 20.000000 | PASS |
| Emission Bandwidth 26 dB | 5510.000 | 10.0 | 40.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5510.000 | 10.0 | 40.000000 | PASS |
| Emission Bandwidth 26 dB | 5590.000 | 10.0 | 40.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5590.000 | 10.0 | 40.000000 | PASS |
| Emission Bandwidth 26 dB | 5710.000 | 10.0 | 40.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5710.000 | 10.0 | 40.000000 | PASS |
| Emission Bandwidth 26 dB | 5530.000 | 10.0 | 80.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5530.000 | 10.0 | 80.000000 | PASS |
| Emission Bandwidth 26 dB | 5610.000 | 10.0 | 80.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5610.000 | 10.0 | 80.000000 | PASS |
| Emission Bandwidth 26 dB | 5690.000 | 10.0 | 80.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5690.000 | 10.0 | 80.000000 | PASS |
| Emission Bandwidth 26 dB | 5570.000 | 10.0 | 160.000000 | PASS |
| Occupied Channel Bandwidth 99% | 5570.000 | 10.0 | 160.000000 | PASS |

## Emission Bandwidth 26 dB (5500 MHz; 10 dBi Omni (10 dBm); 20 MHz)

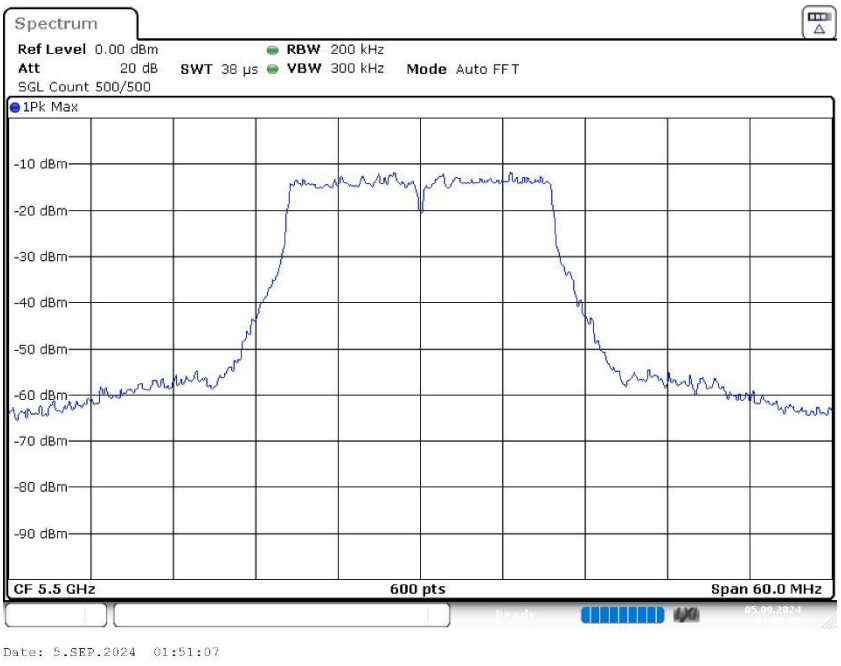
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5500.000000 | 22.600000 | --- | --- | 5488.750000 | 5511.350000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5500.000000 | 5.4 | 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 | 300.000 kHz | >= 240.000 kHz |
| SweepPoints | 600 | ~ 600 |
| Sweeptime | 37.969 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 |

## RF output power (5500 MHz; 10 dBi Omni (10 dBm); 20 MHz)

## Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---|---|---|---|---|---|
| 5500.000000 | 18.2 | 20.0 | 28.2 | 99.709 | PASS |

## OSP PowerMeter settings

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

## Power Spectral Density (5500 MHz; 10 dBi Omni (10 dBm); 20 MHz)

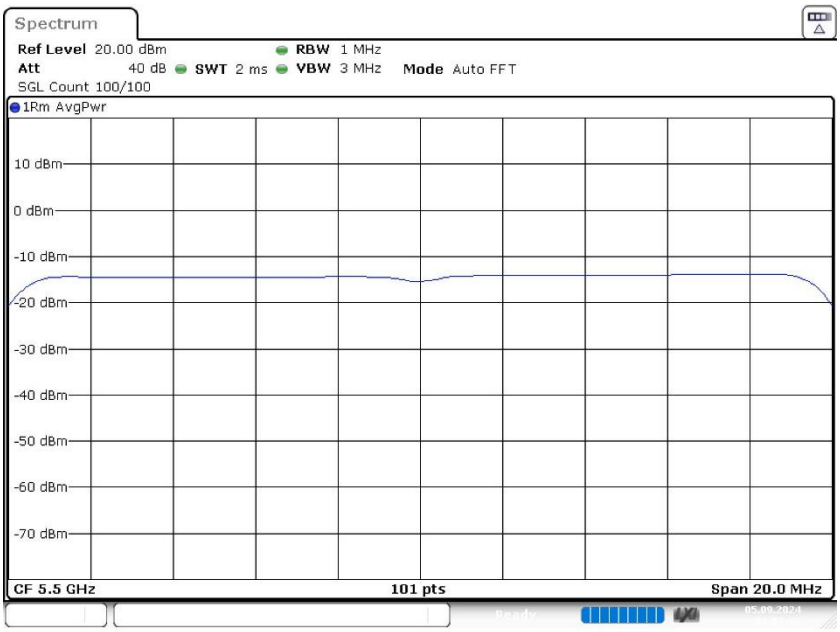
## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5500.000000 | 5508.316832 | 6.336 | 7.0 | PASS |

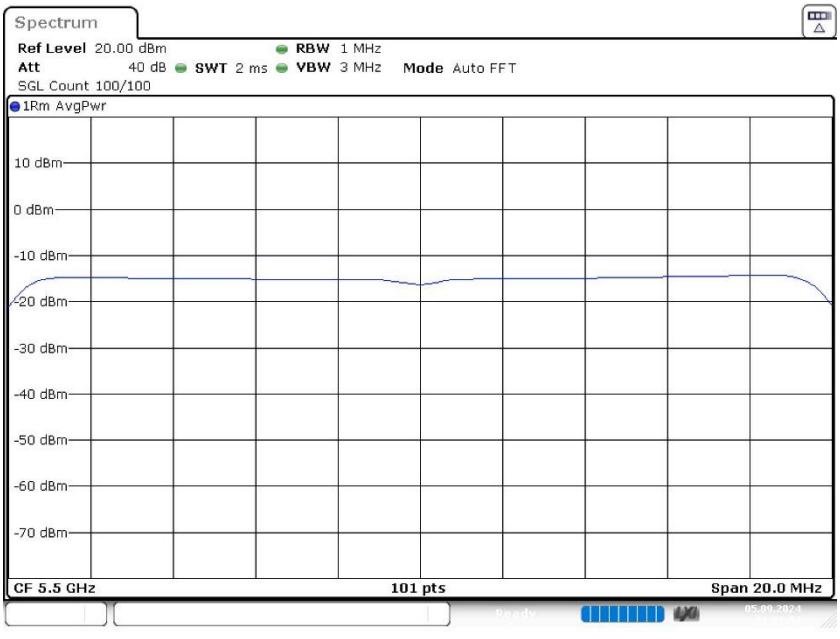
## Ports

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

PSD Connector 1




PSD Connector 2



## Measurement

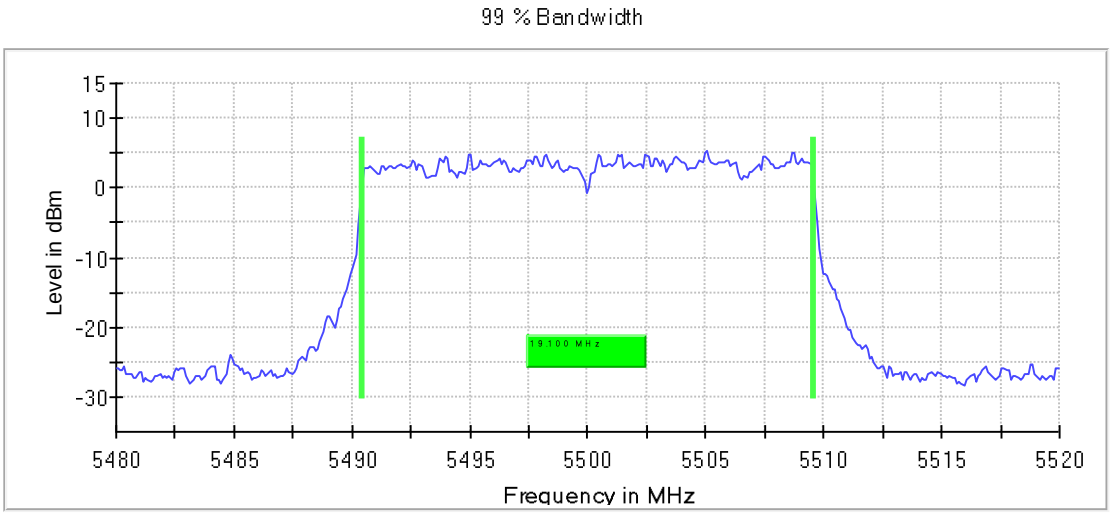
| Setting | Instrument Value | Target Value |
|---|---|---|
| Start Frequency | 5.49000 GHz | 5.49000 GHz |
| Stop Frequency | 5.51000 GHz | 5.51000 GHz |
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 101 | ~ 40 |
| Sweeptime | 2.020 ms | 2.020 ms |
| Reference Level | 20.000 dBm | 20.000 dBm |
| Attenuation | 40.000 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; 10 dBi Omni (10 dBm); 20 MHz)

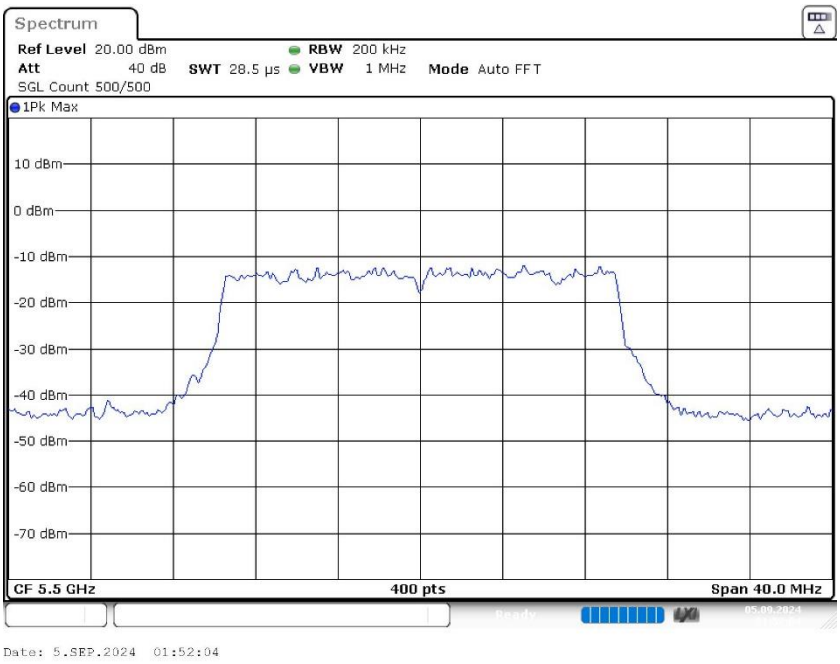
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5500.000000 | 19.100000 | --- | --- | 5490.450000 | 5509.550000 |

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




Bandwidth




## Measurement

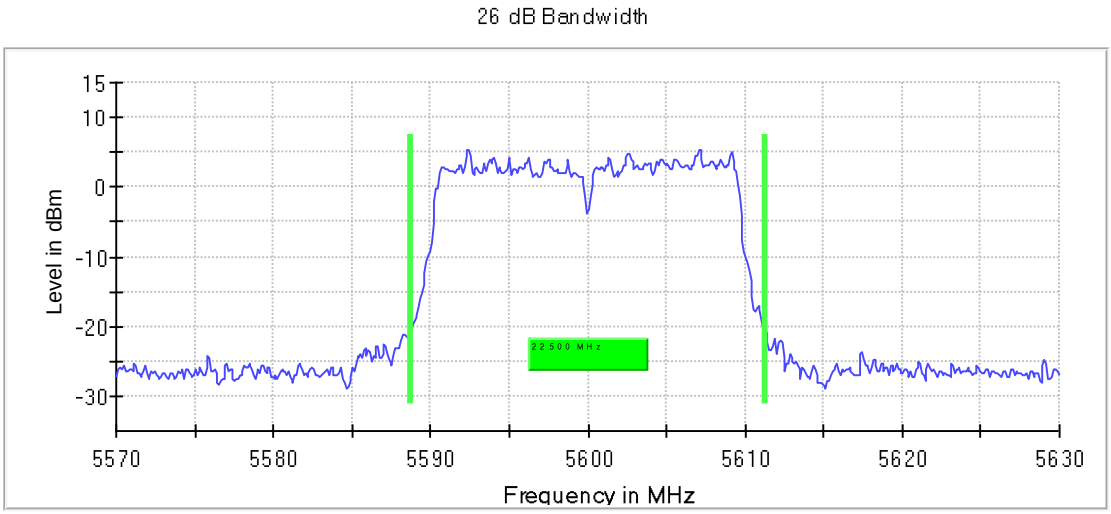
| Setting | Instrument Value | Target Value |
|---|---|---|
| Start Frequency | 5.48000 GHz | 5.48000 GHz |
| Stop Frequency | 5.52000 GHz | 5.52000 GHz |
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 200.000 kHz | >= 200.000 kHz |
| VBW | 1.000 MHz | >= 600.000 kHz |
| SweepPoints | 400 | ~ 400 |
| Sweeptime | 28.477 µs | AUTO |
| Reference Level | 20.000 dBm | 20.000 dBm |
| Attenuation | 40.000 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; 10 dBi Omni (10 dBm); 20 MHz)

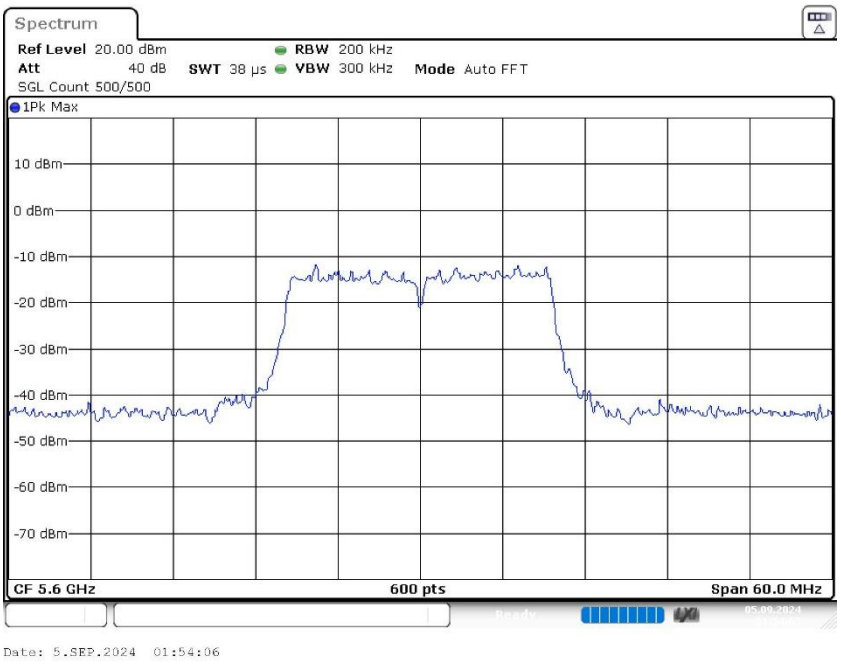
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5600.000000 | 22.500000 | --- | --- | 5588.750000 | 5611.250000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5600.000000 | 5.4 | PASS |




Bandwidth

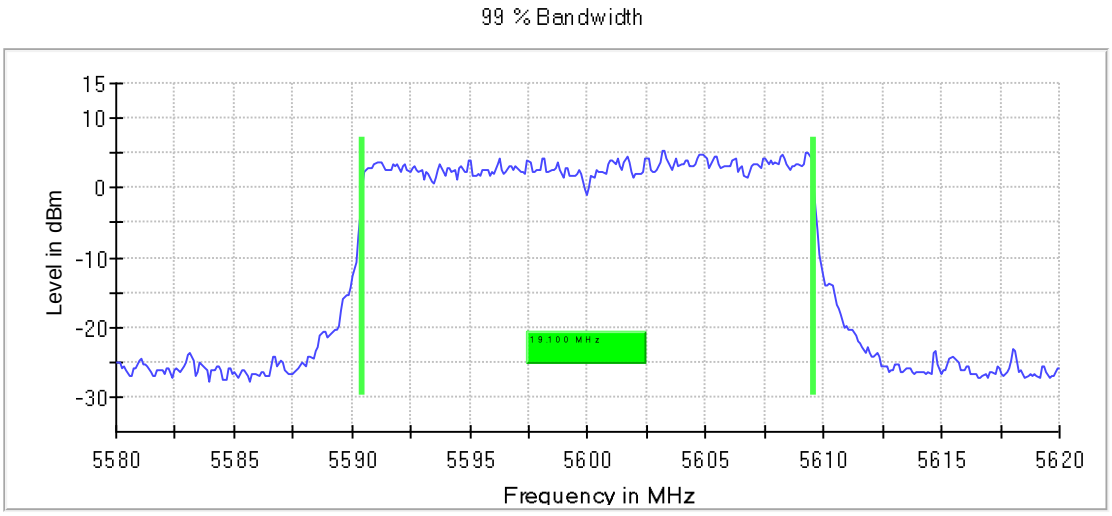



## Occupied Channel Bandwidth 99% (5600 MHz; 10 dBi Omni (10 dBm); 20 MHz)

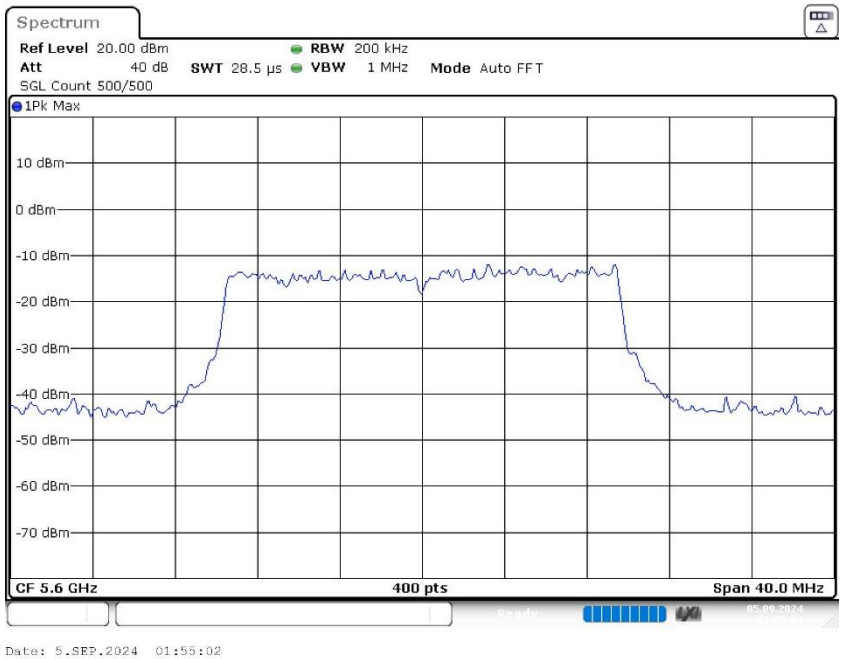
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5600.000000 | 19.100000 | --- | --- | 5590.450000 | 5609.550000 |

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




Bandwidth

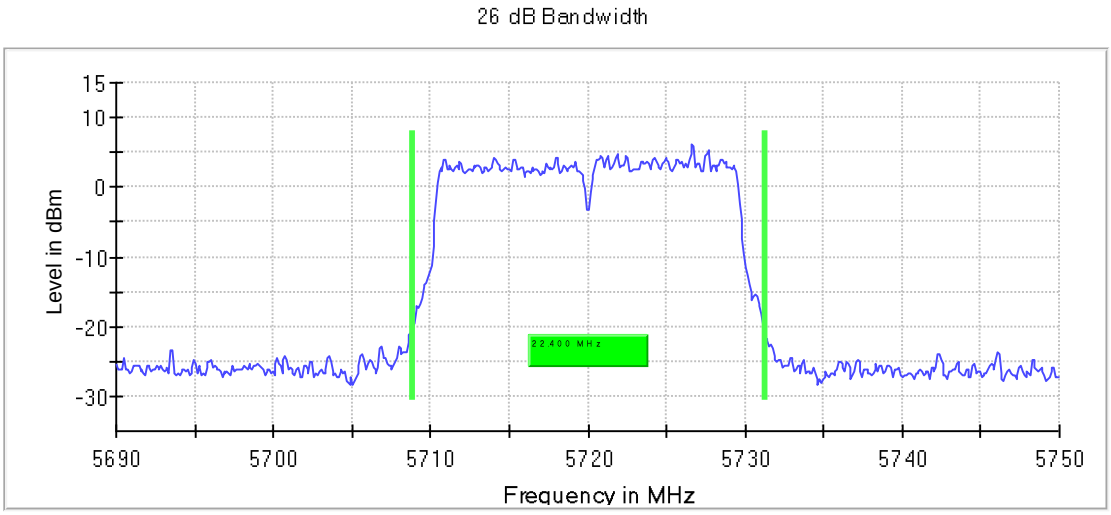



## Emission Bandwidth 26 dB (5720 MHz; 10 dBi Omni (10 dBm); 20 MHz)

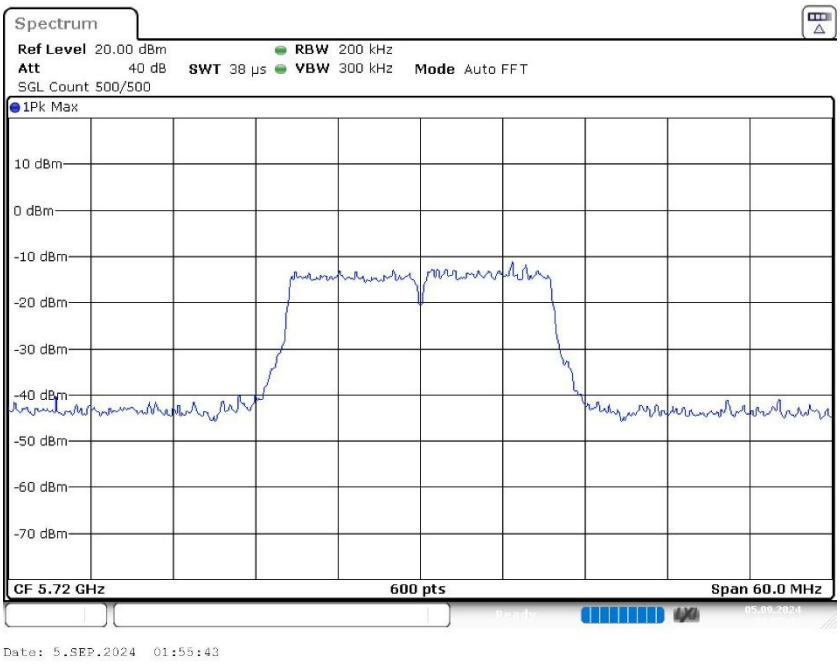
# 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---|---|---|---|---|---|
| 5720.000000 | 22.400000 | 16.150000 | 6.250000 | --- | --- |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) | Result |
|---|---|---|---|---|
| 5720.000000 | 5708.850000 | 5731.250000 | 6.1 | PASS |




Bandwidth

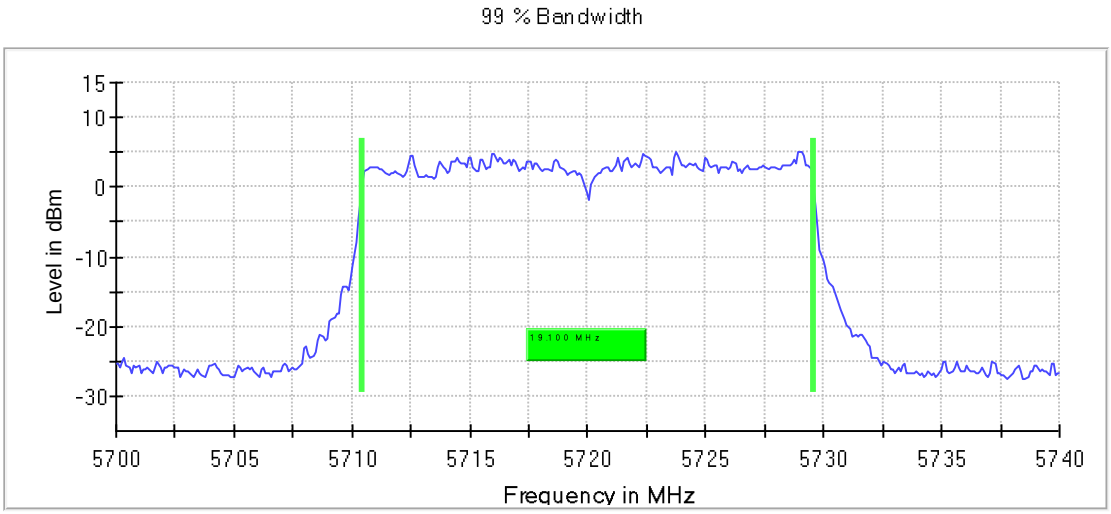



## Occupied Channel Bandwidth 99% (5720 MHz; 10 dBi Omni (10 dBm); 20 MHz)

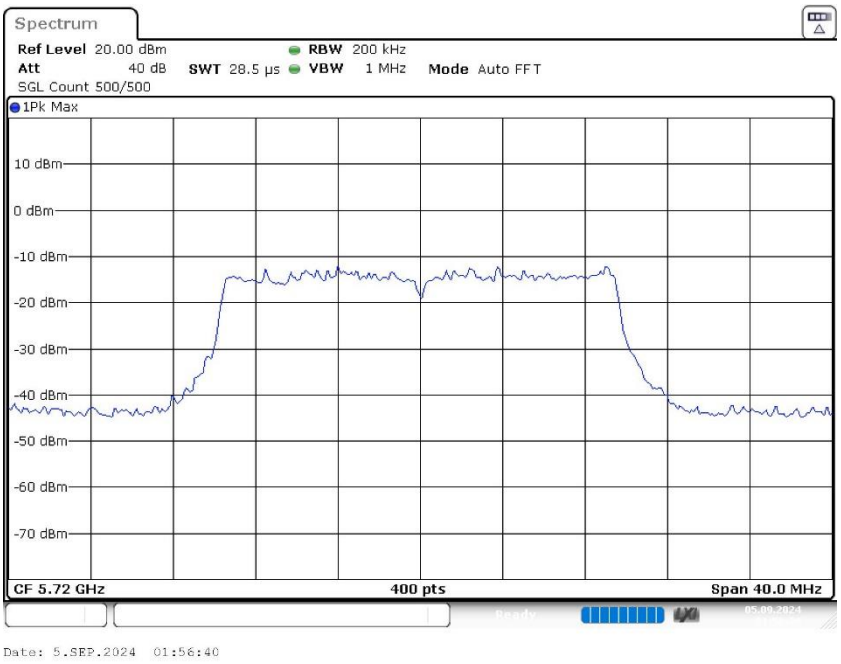
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---|---|---|---|---|---|
| 5720.000000 | 19.100000 | 14.550000 | 4.550000 | --- | --- |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---|---|---|---|
| 5720.000000 | 5710.450000 | 5729.550000 | PASS |




Bandwidth

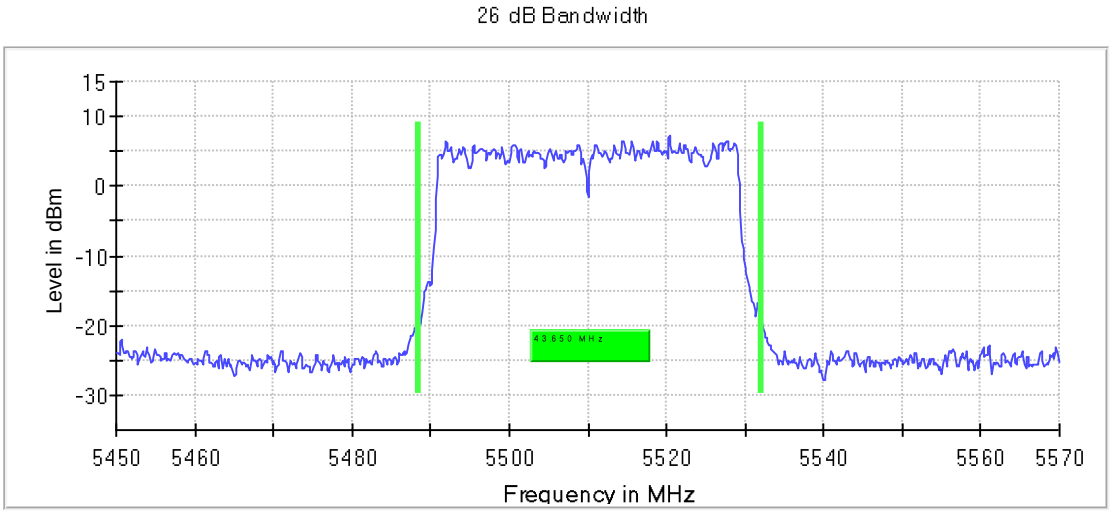



# Emission Bandwidth 26 dB (5510 MHz; 10 dBi Omni (10 dBm); 40 MHz)

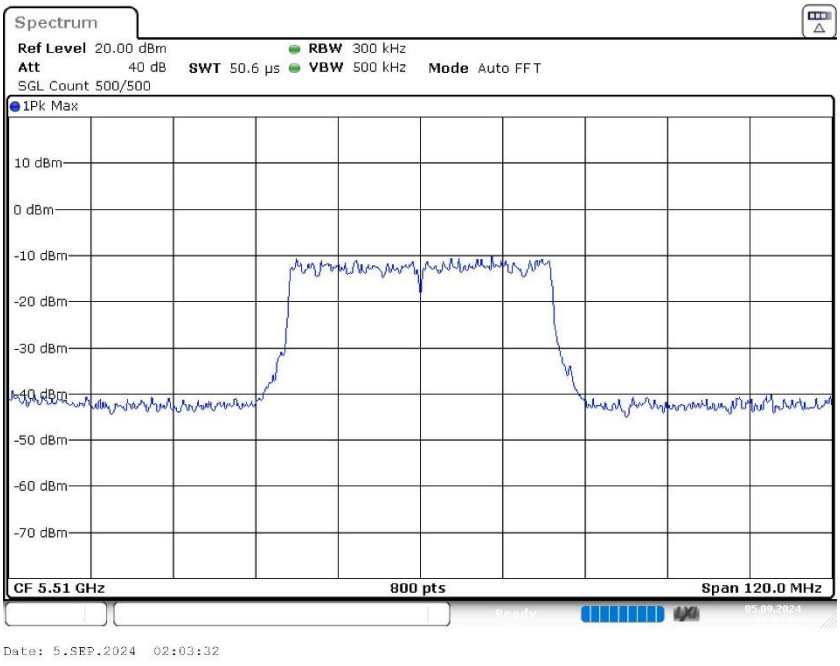
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5510.000000 | 43.650000 | --- | --- | 5488.475000 | 5532.125000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5510.000000 | 7.2 | PASS |




Bandwidth

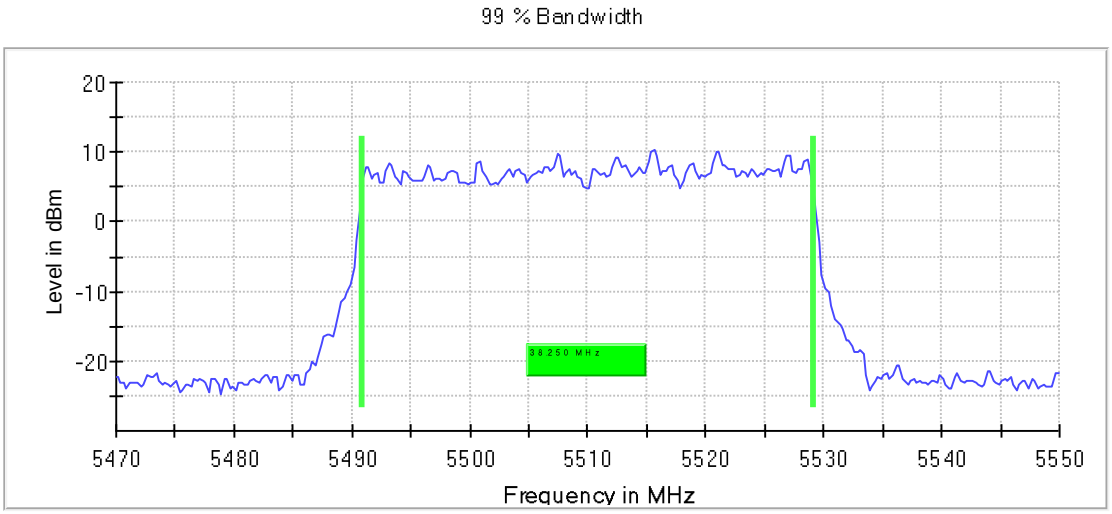



## Occupied Channel Bandwidth 99% (5510 MHz; 10 dBi Omni (10 dBm); 40 MHz)

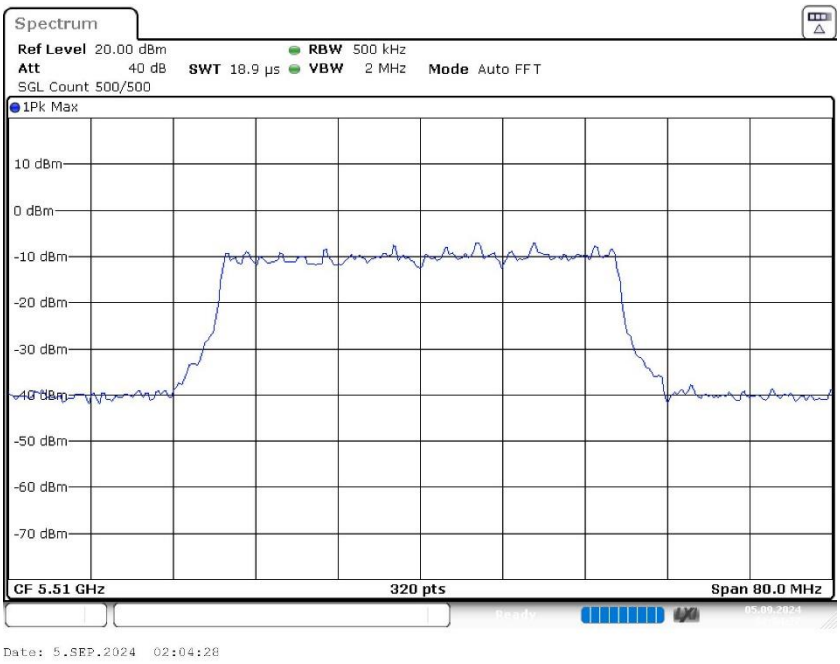
# 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5510.000000 | 38.250000 | --- | --- | 5490.875000 | 5529.125000 |

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




Bandwidth

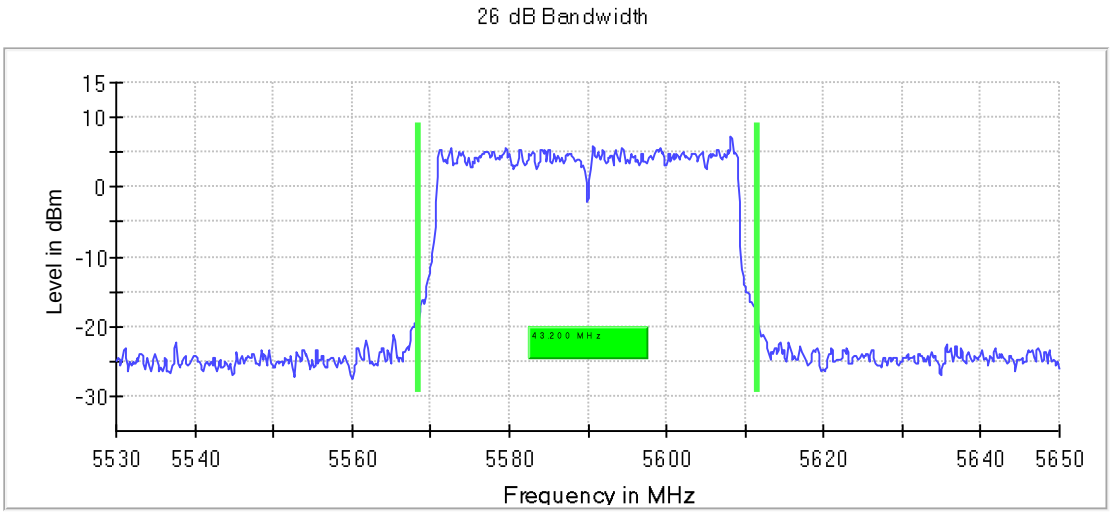



## Emission Bandwidth 26 dB (5590 MHz; 10 dBi Omni (10 dBm); 40 MHz)

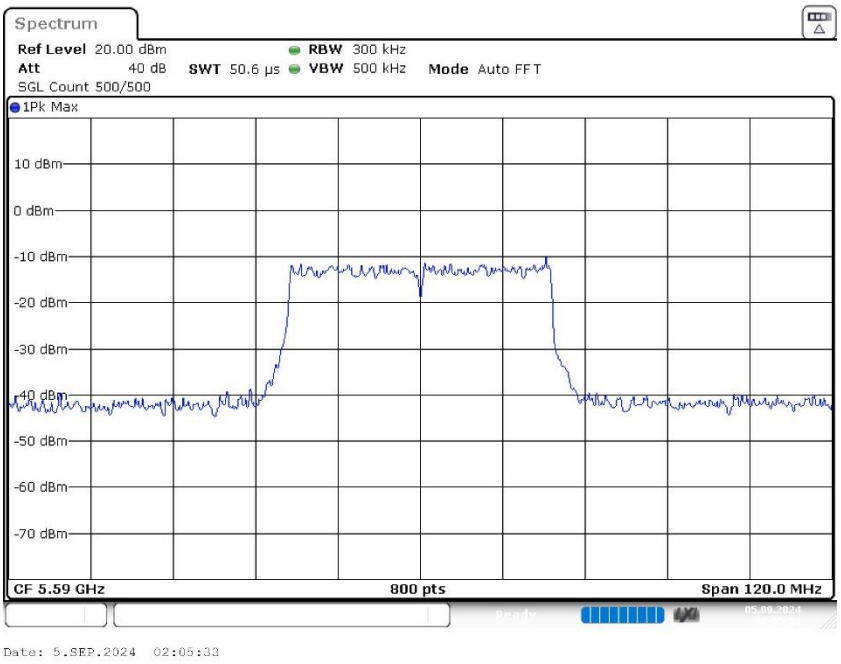
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5590.000000 | 43.200000 | --- | --- | 5568.475000 | 5611.675000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5590.000000 | 7.1 | PASS |




Bandwidth

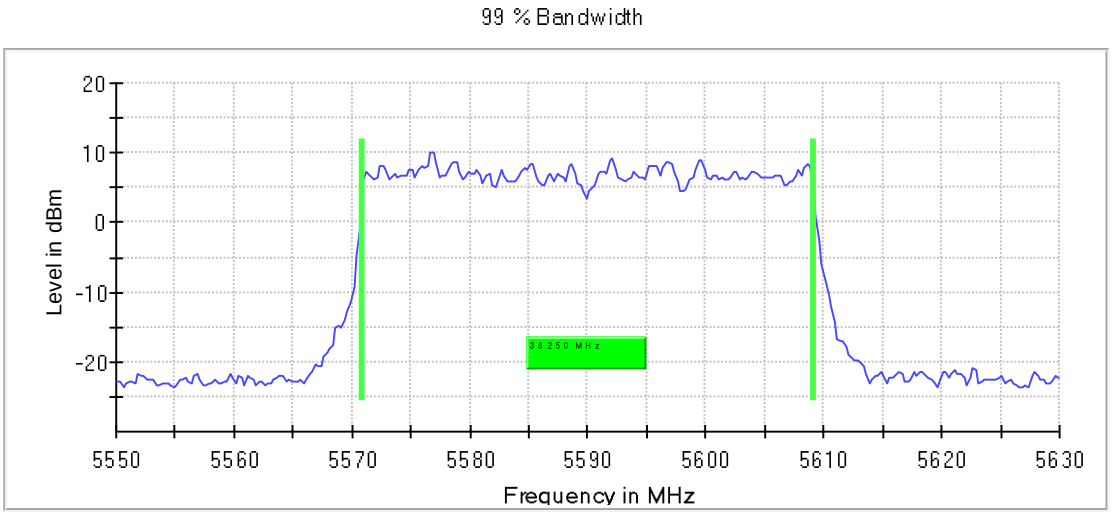



## Occupied Channel Bandwidth 99% (5590 MHz; 10 dBi Omni (10 dBm); 40 MHz)

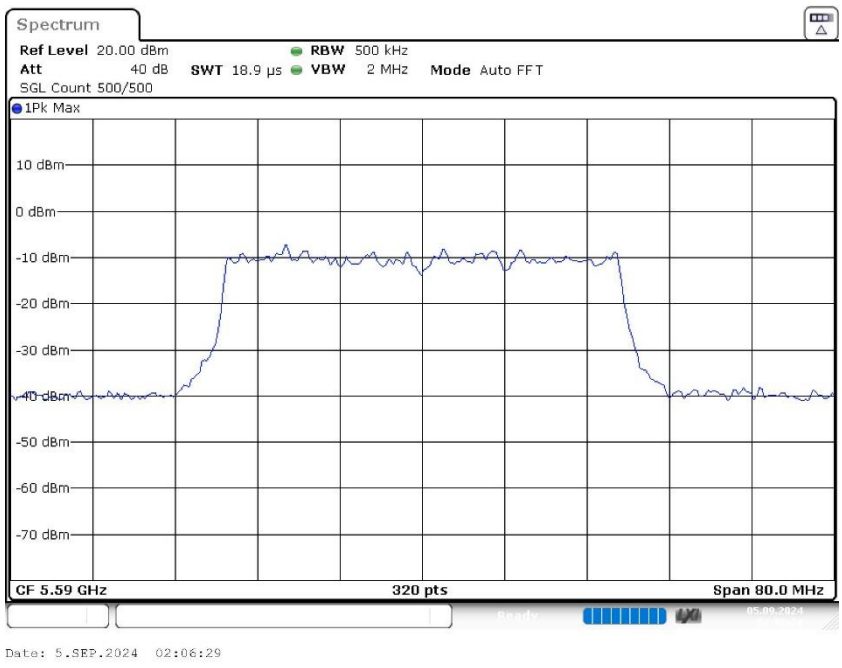
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5590.000000 | 38.250000 | --- | --- | 5570.875000 | 5609.125000 |

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




Bandwidth

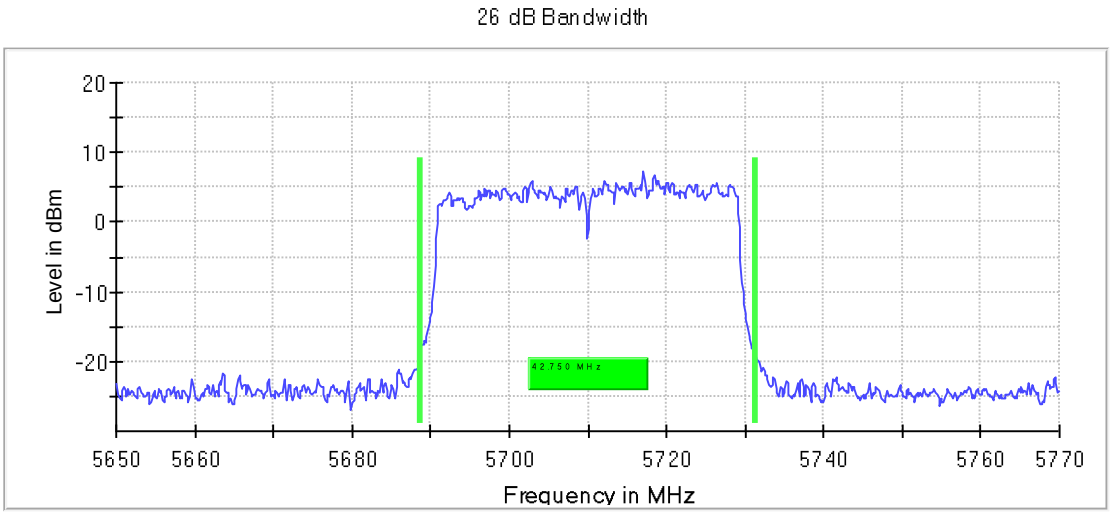



## Emission Bandwidth 26 dB (5710 MHz; 10 dBi Omni (10 dBm); 40 MHz)

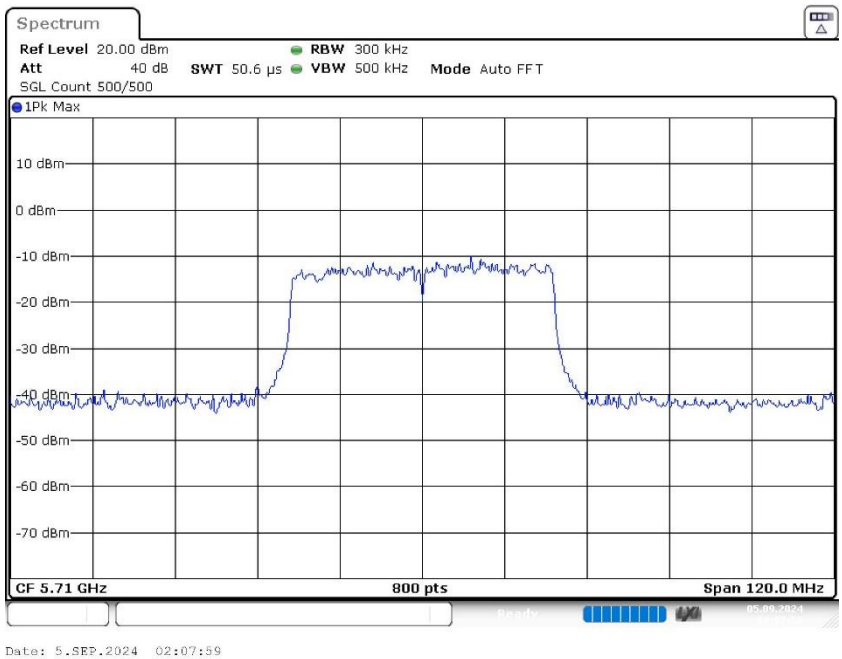
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---|---|---|---|---|---|
| 5710.000000 | 42.750000 | 36.375000 | 6.375000 | --- | --- |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) | Result |
|---|---|---|---|---|
| 5710.000000 | 5688.625000 | 5731.375000 | 7.2 | PASS |




Bandwidth

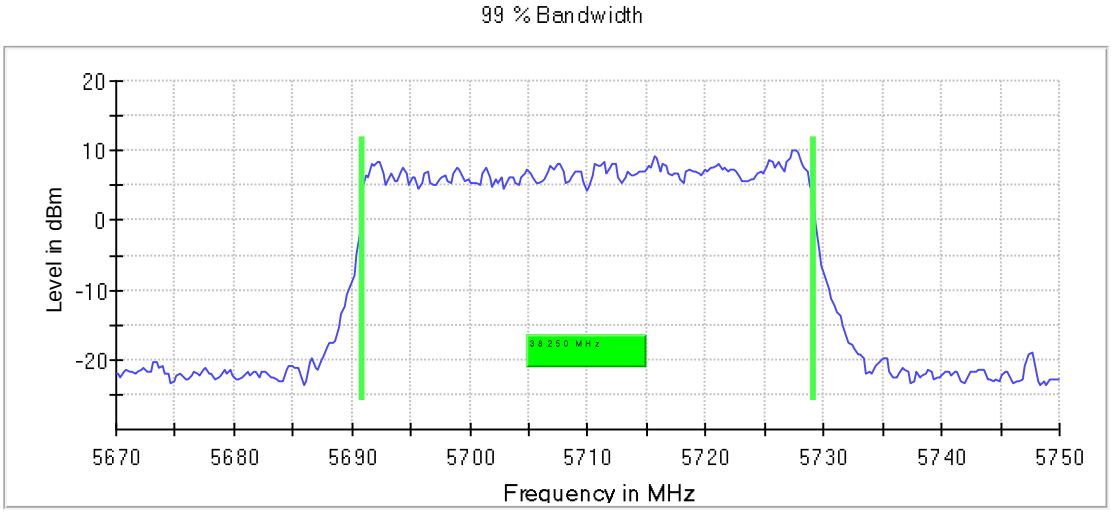


# Occupied Channel Bandwidth 99% (5710 MHz; 10 dBi Omni (10 dBm); 40 MHz)

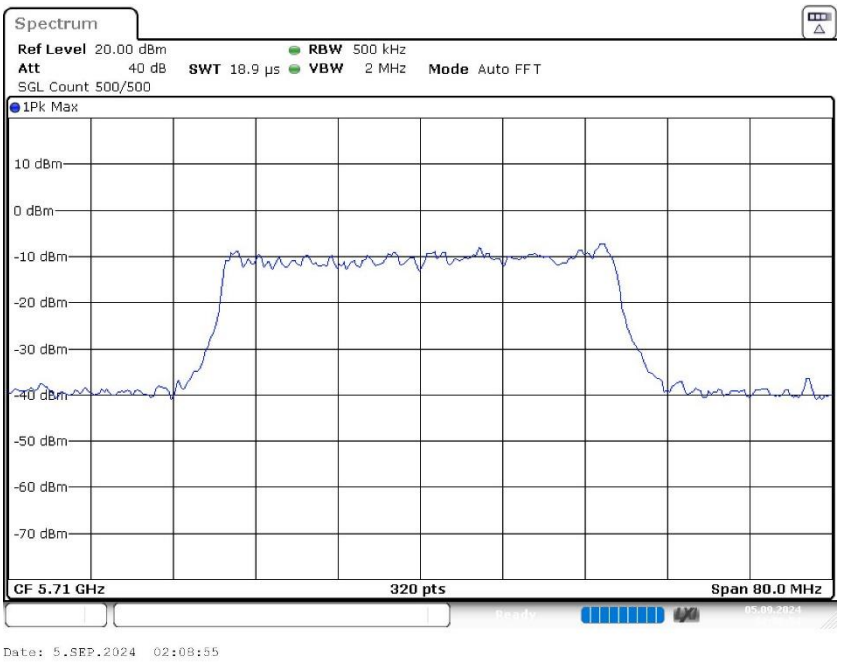
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---|---|---|---|---|---|
| 5710.000000 | 38.250000 | 34.125000 | 4.125000 | --- | --- |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---|---|---|---|
| 5710.000000 | 5690.875000 | 5729.125000 | PASS |




Bandwidth

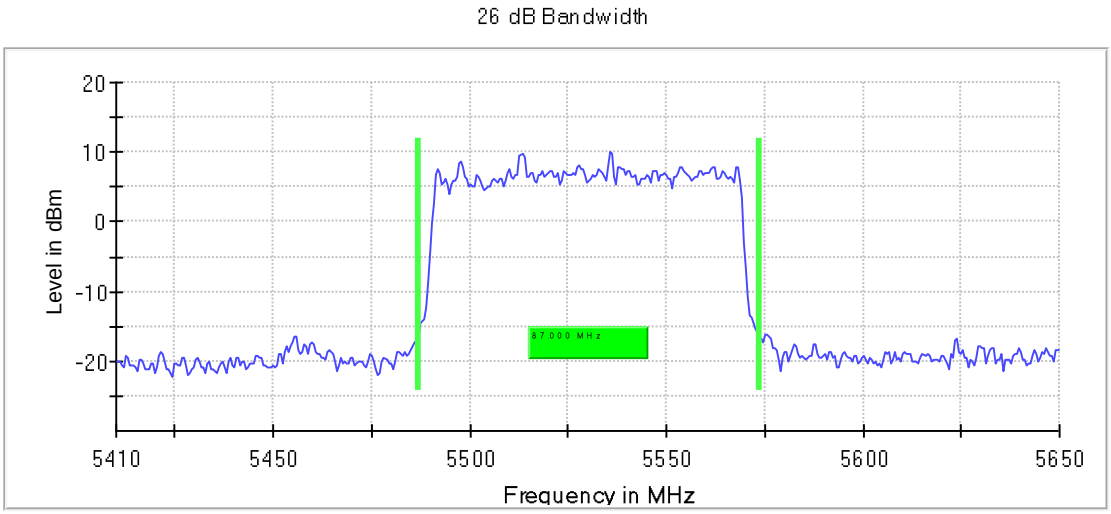



## Emission Bandwidth 26 dB (5530 MHz; 10 dBi Omni (10 dBm); 80 MHz)

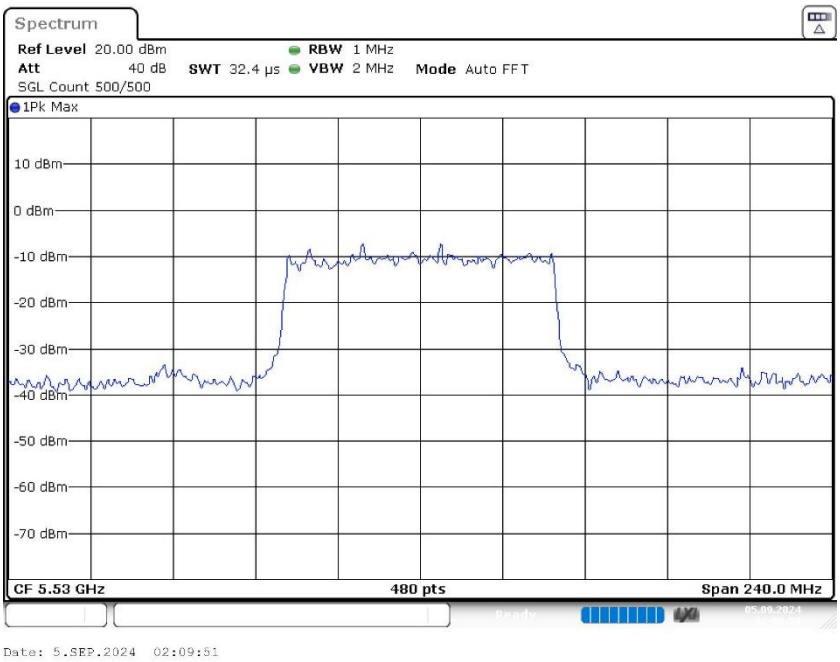
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5530.000000 | 87.000000 | --- | --- | 5486.750000 | 5573.750000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5530.000000 | 9.9 | PASS |



Bandwidth

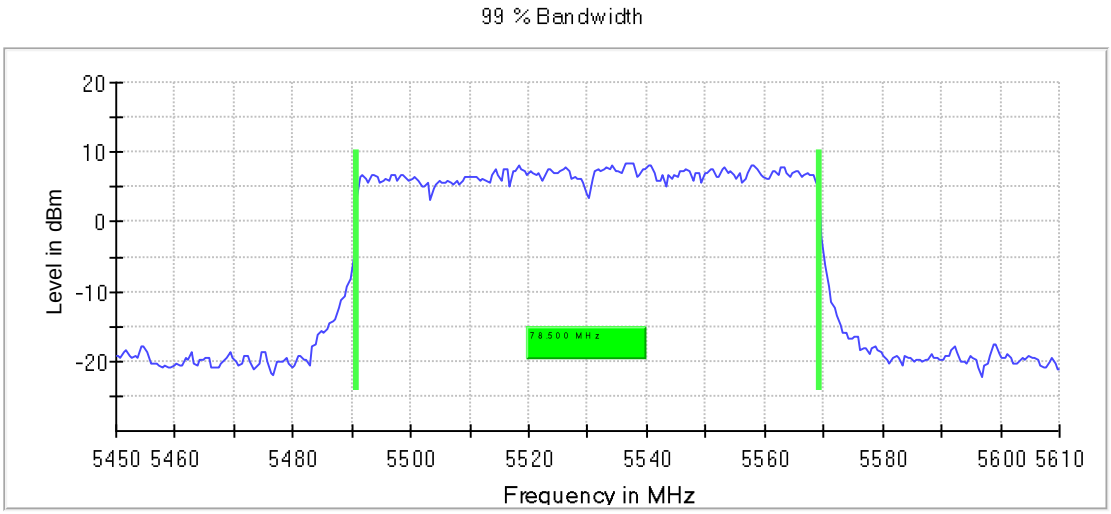



## Occupied Channel Bandwidth 99% (5530 MHz; 10 dBi Omni (10 dBm); 80 MHz)

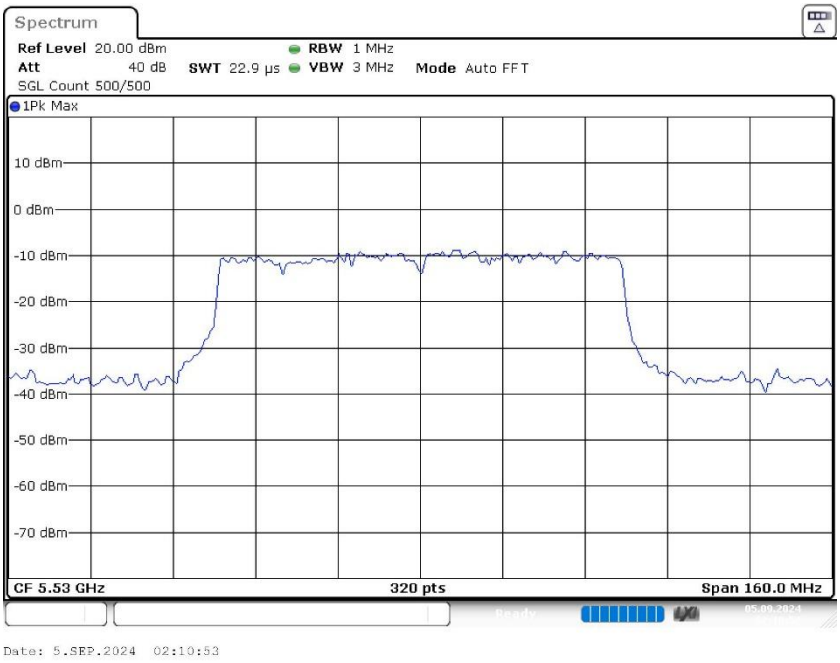
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5530.000000 | 78.500000 | --- | --- | 5490.750000 | 5569.250000 |

| DUT Frequency (MHz) | Result |
|---|---|
| 5530.000000 | PASS |




Bandwidth

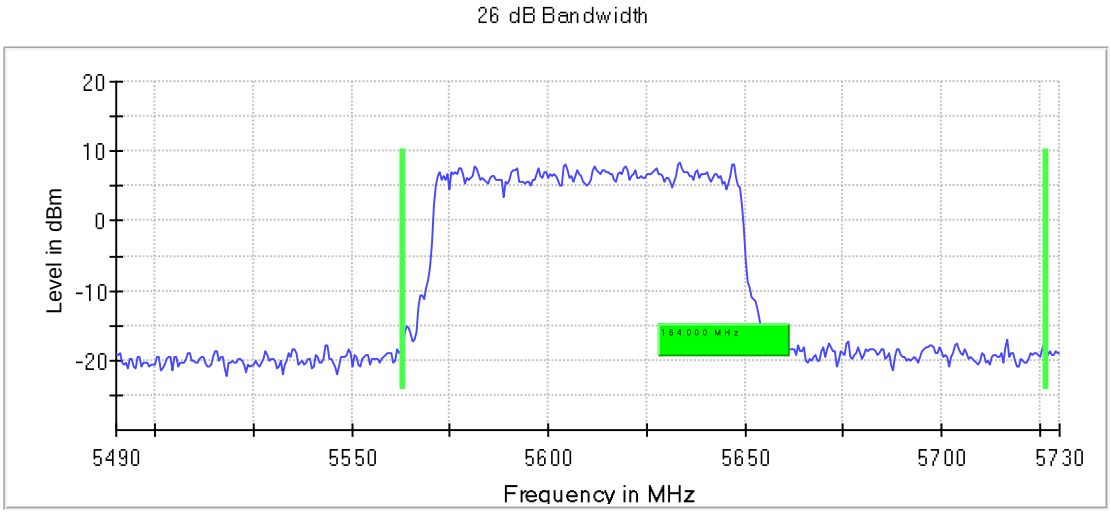



# Emission Bandwidth 26 dB (5610 MHz; 10 dBi Omni (10 dBm); 80 MHz)

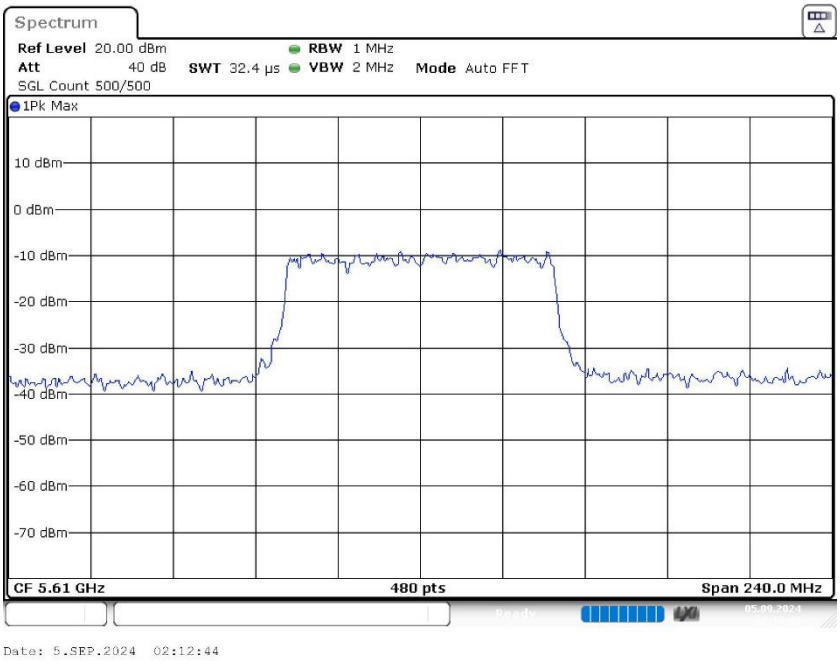
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5610.000000 | 164.000000 | --- | --- | 5562.750000 | 5726.750000 |

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---|---|---|
| 5610.000000 | 8.3 | PASS |




Bandwidth

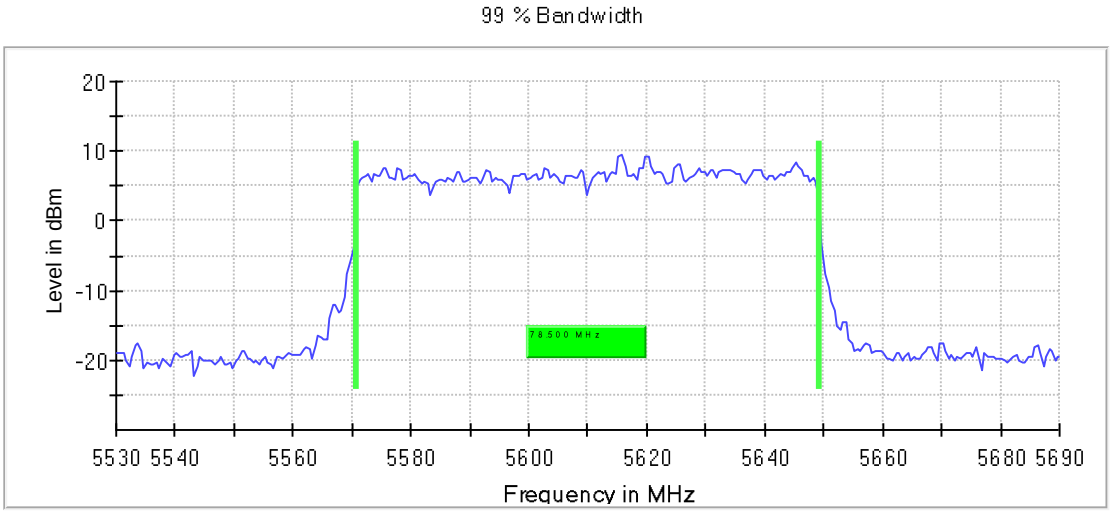



## Occupied Channel Bandwidth 99% (5610 MHz; 10 dBi Omni (10 dBm); 80 MHz)

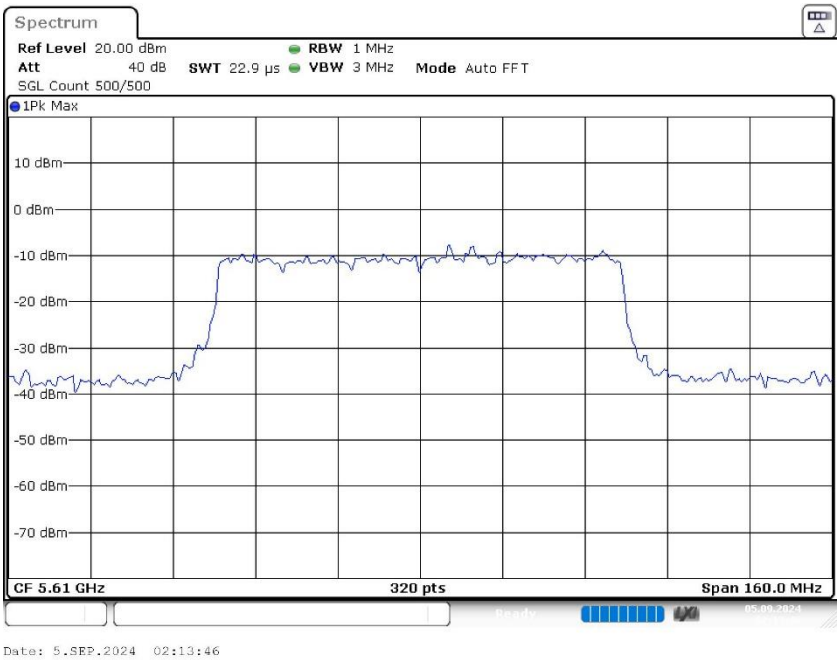
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---|---|---|---|---|---|
| 5610.000000 | 78.500000 | --- | --- | 5570.750000 | 5649.250000 |

| DUT Frequency (MHz) | Result |
|---|---|
| 5610.000000 | PASS |




Bandwidth

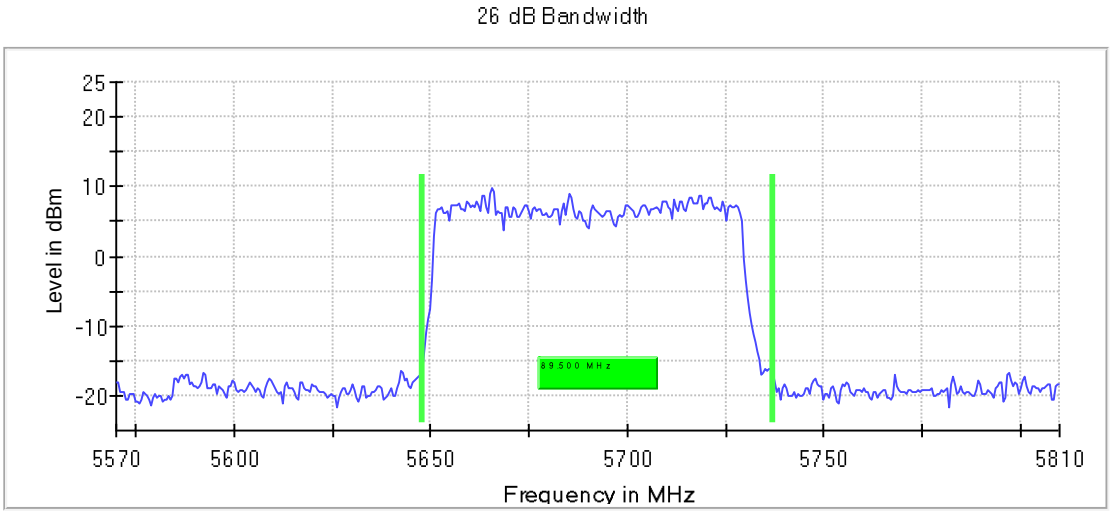


# Emission Bandwidth 26 dB (5690 MHz; 10 dBi Omni (10 dBm); 80 MHz)

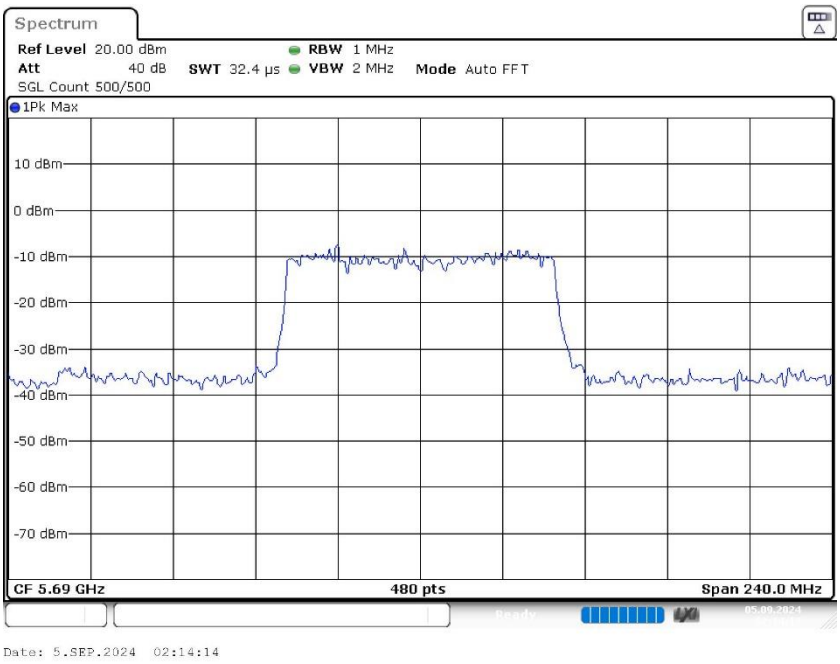
## 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---|---|---|---|---|---|
| 5690.000000 | 89.500000 | 77.250000 | 12.250000 | --- | --- |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) | Result |
|---|---|---|---|---|
| 5690.000000 | 5647.750000 | 5737.250000 | 9.7 | PASS |




Bandwidth

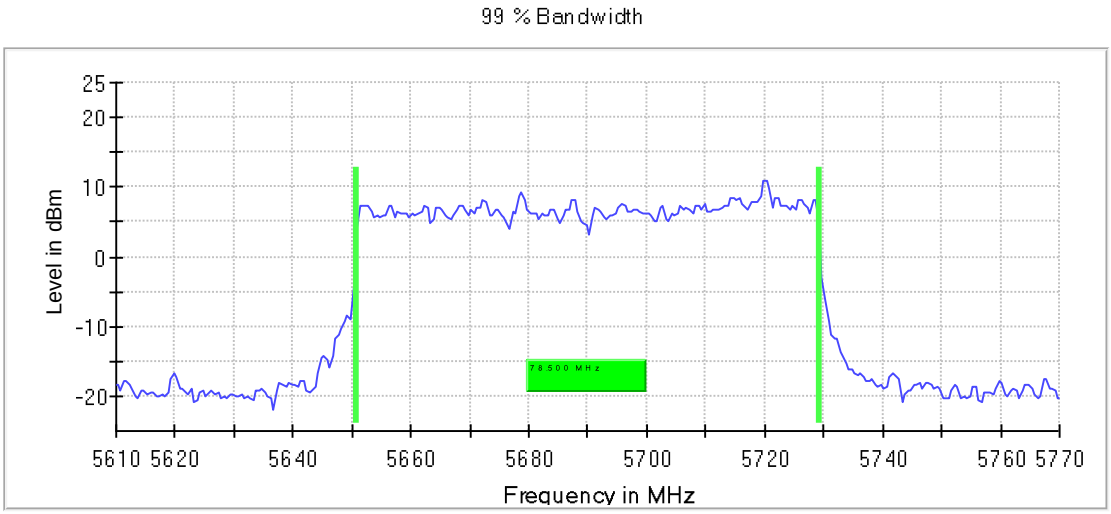



## Occupied Channel Bandwidth 99% (5690 MHz; 10 dBi Omni (10 dBm); 80 MHz)

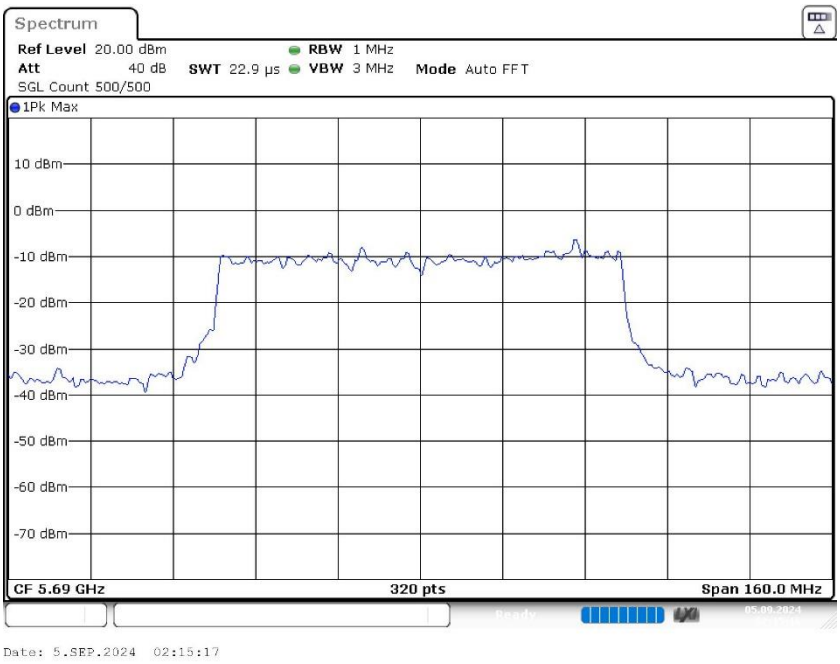
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---|---|---|---|---|---|
| 5690.000000 | 78.500000 | 74.250000 | 4.250000 | --- | --- |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---|---|---|---|
| 5690.000000 | 5650.750000 | 5729.250000 | PASS |




Bandwidth



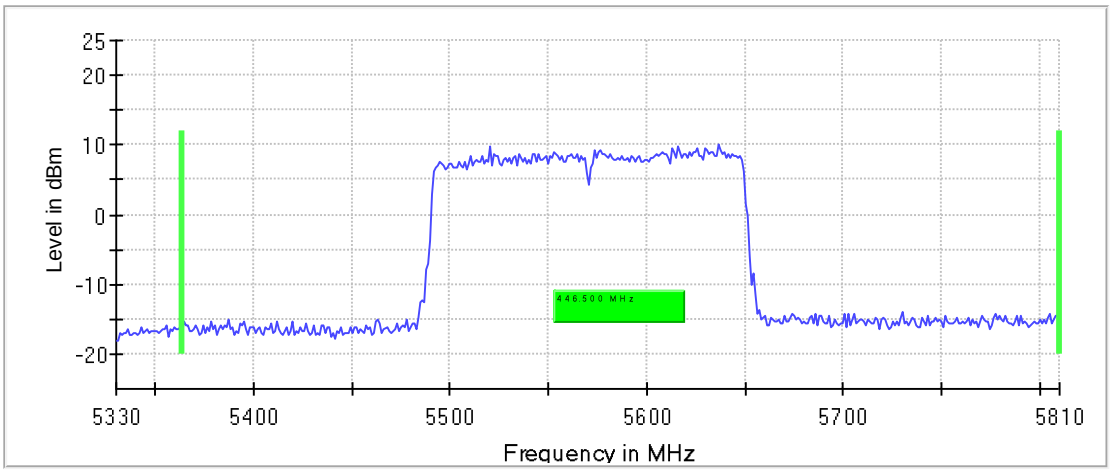

# Emission Bandwidth 26 dB (5570 MHz; 10 dBi Omni (10 dBm); 160 MHz)

## 26 dB Bandwidth

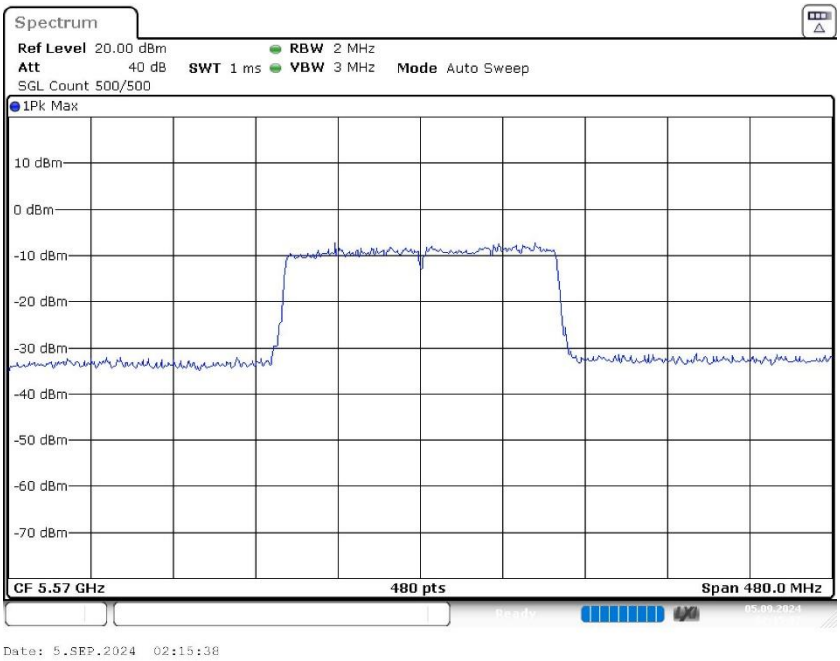
| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---|---|---|---|---|---|
| 5570.000000 | 446.500000 | 361.500000 | 85.000000 | --- | --- |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Max Level (dBm) | Result |
|---|---|---|---|---|
| 5570.000000 | 5363.500000 | 5810.000000 | 10.0 | PASS |

26 dB Bandwidth




Bandwidth

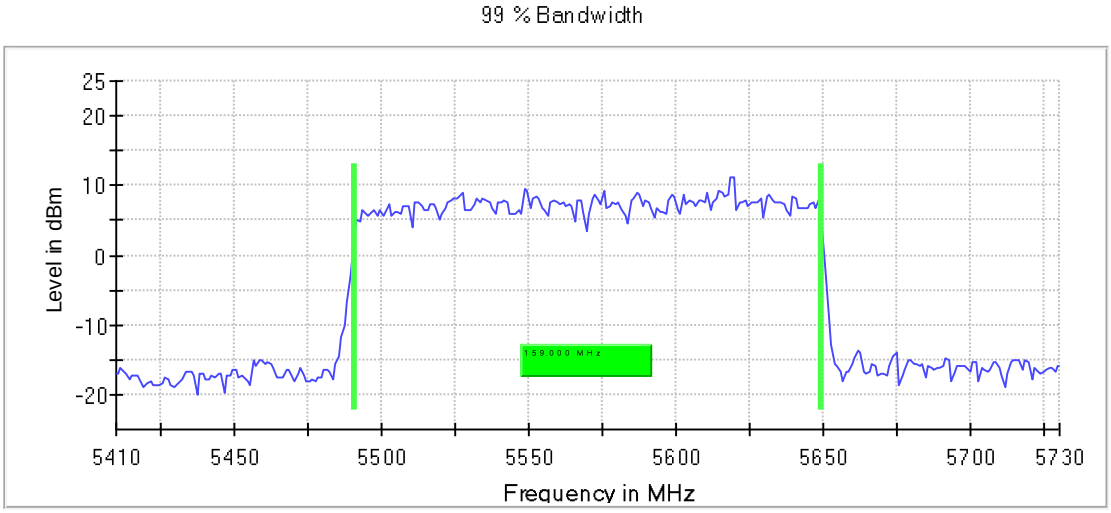


# Occupied Channel Bandwidth 99% (5570 MHz; 10 dBi Omni (10 dBm); 160 MHz)

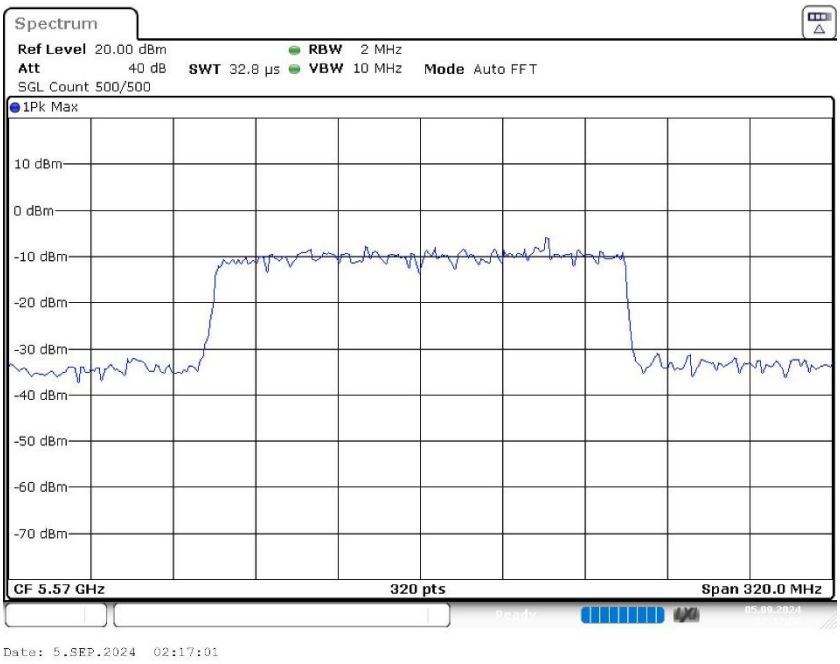
## 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 2C (MHz) | Bandwidth U-NII 3 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---|---|---|---|---|---|
| 5570.000000 | 159.000000 | 159.000000 | 0.000000 | --- | --- |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) | Result |
|---|---|---|---|
| 5570.000000 | 5490.500000 | 5649.500000 | PASS |




Bandwidth


Spectrum
Ref Level 20.00 dBm
RBW 2 MHz
Att 40 dB
SWT 32.8 µs
VBW 10 MHz
Mode Auto FFT
SGL Count 500/500
1Pk Max
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 5.57 GHz
320 pts
Span 320.0 MHz
Date: 5.SEP.2024 02:17:01

## Summary

| Test | Frequency (MHz) | Nominal Power (dBm) | Nominal Bandwidth (MHz) | Result |
|---|---|---|---|---|
| Power Spectral Density | 5500.000 | 10.0 | 20.000000 | PASS |
| Power Spectral Density | 5600.000 | 10.0 | 20.000000 | PASS |
| Power Spectral Density | 5720.000 | 10.0 | 20.000000 | PASS |
| Power Spectral Density | 5510.000 | 10.0 | 40.000000 | PASS |
| Power Spectral Density | 5590.000 | 10.0 | 40.000000 | PASS |
| Power Spectral Density | 5710.000 | 10.0 | 40.000000 | PASS |
| Power Spectral Density | 5530.000 | 10.0 | 80.000000 | PASS |
| Power Spectral Density | 5610.000 | 10.0 | 80.000000 | PASS |
| Power Spectral Density | 5690.000 | 10.0 | 80.000000 | PASS |
| Power Spectral Density | 5570.000 | 10.0 | 160.000000 | PASS |

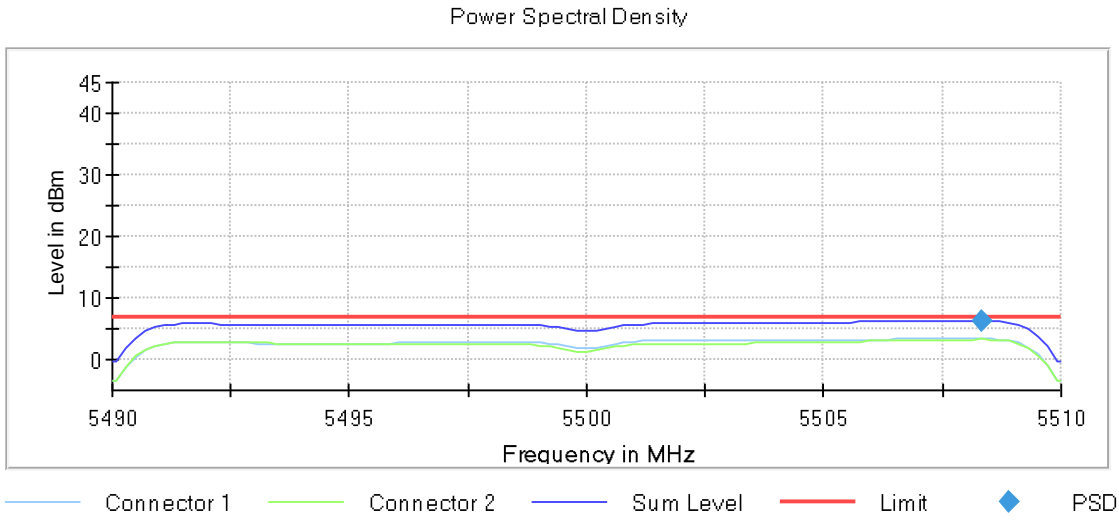
# Power Spectral Density (5500 MHz; 10 dBi Omni (10 dBm); 20 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5500.000000 | 5508.316832 | 6.336 | 7.0 | PASS |

## Ports

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




## 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 | 20.000 dBm | 20.000 dBm |
| Attenuation | 40.000 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 |

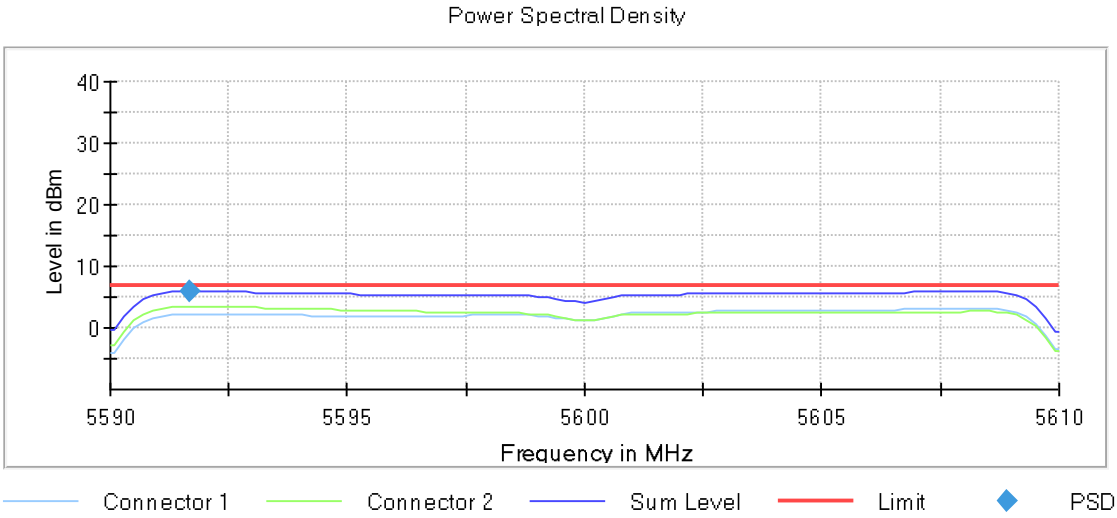
## Power Spectral Density (5600 MHz; 10 dBi Omni (10 dBm); 20 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5600.000000 | 5591.683168 | 5.914 | 7.0 | PASS |

## Ports

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



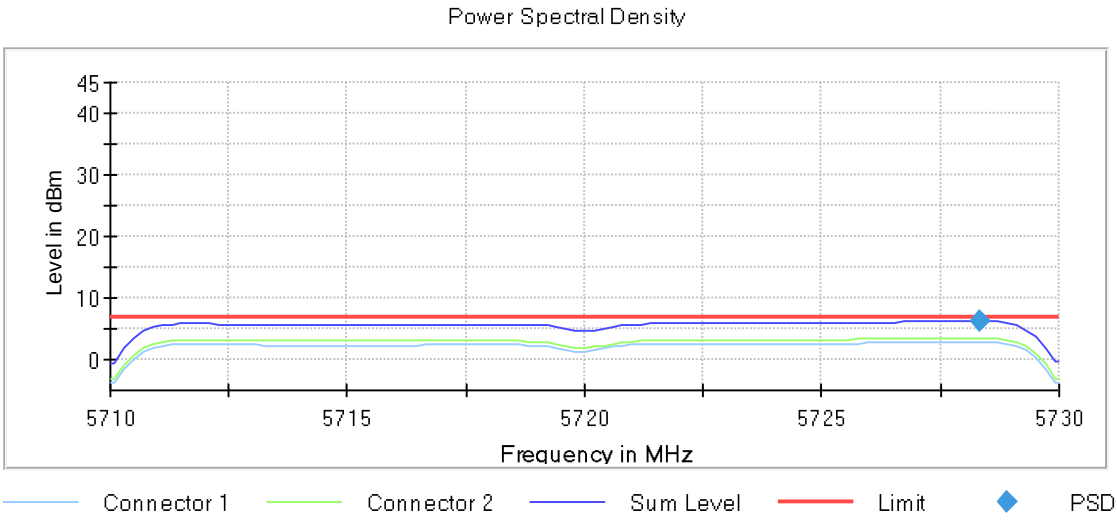

## Power Spectral Density (5720 MHz; 10 dBi Omni (10 dBm); 20 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5720.000000 | 5728.316832 | 6.204 | 7.0 | PASS |

## Ports

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



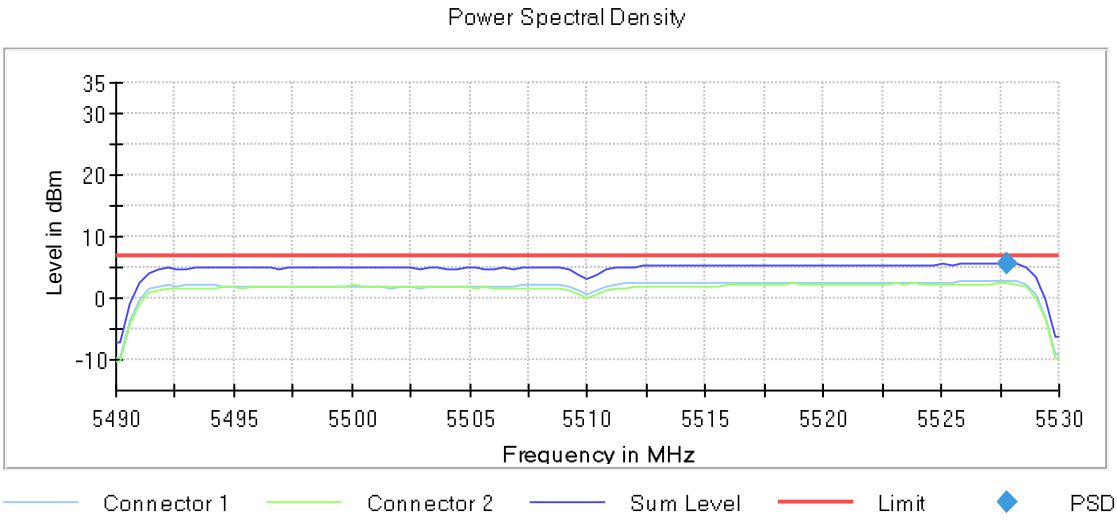

## Power Spectral Density (5510 MHz; 10 dBi Omni (10 dBm); 40 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5510.000000 | 5527.821782 | 5.614 | 7.0 | PASS |

## Ports

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



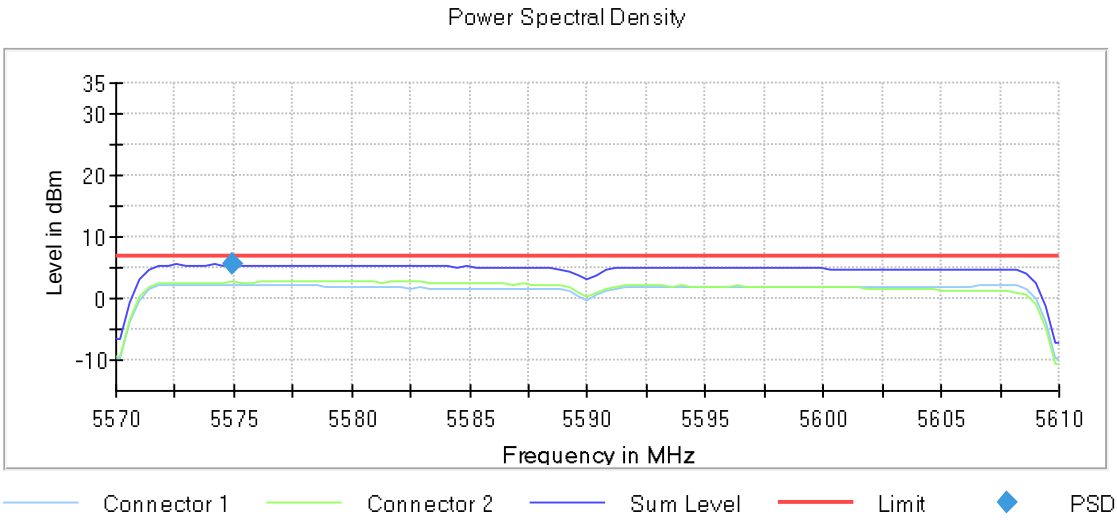
# Power Spectral Density (5590 MHz; 10 dBi Omni (10 dBm); 40 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5590.000000 | 5574.950495 | 5.486 | 7.0 | PASS |

## Ports

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



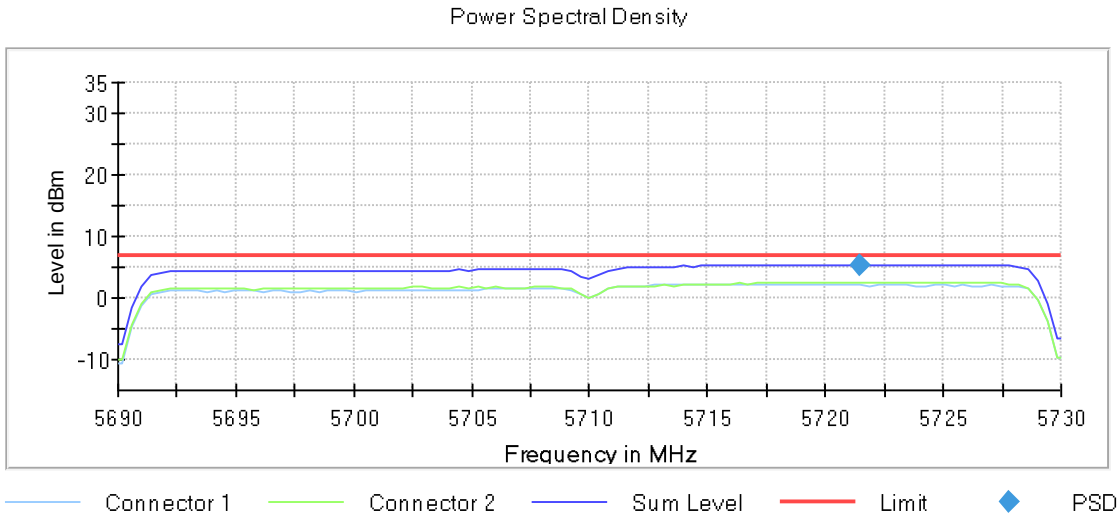

# Power Spectral Density (5710 MHz; 10 dBi Omni (10 dBm); 40 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5710.000000 | 5721.485149 | 5.388 | 7.0 | PASS |

## Ports

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



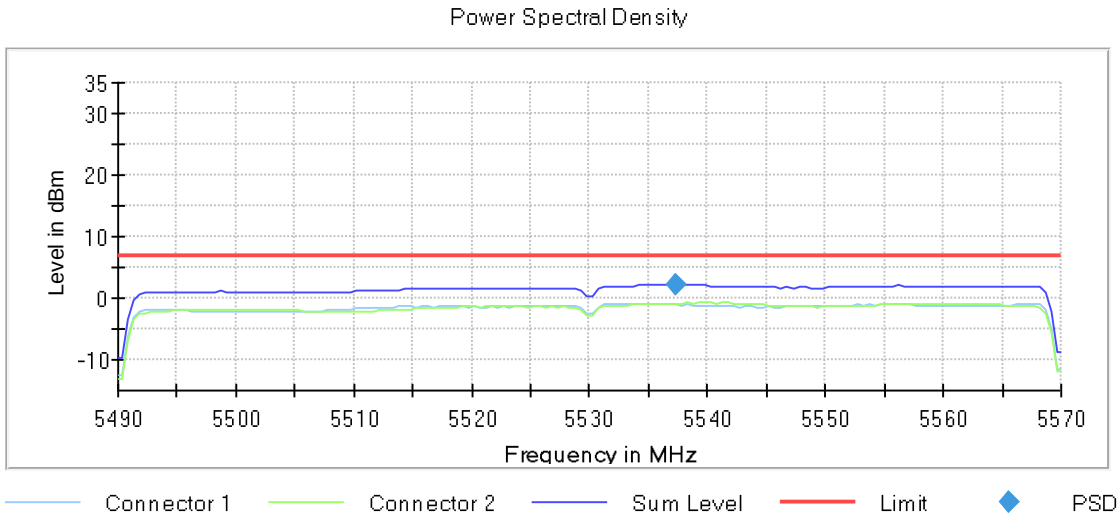

## Power Spectral Density (5530 MHz; 10 dBi Omni (10 dBm); 80 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5530.000000 | 5537.250000 | 2.131 | 7.0 | PASS |

## Ports

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



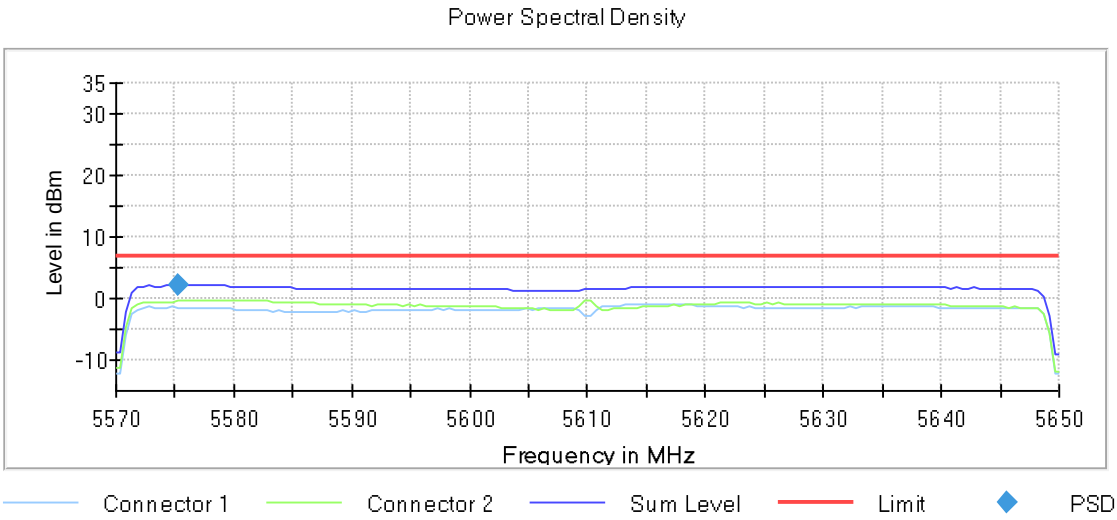
# Power Spectral Density (5610 MHz; 10 dBi Omni (10 dBm); 80 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5610.000000 | 5575.250000 | 2.122 | 7.0 | PASS |

## Ports

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



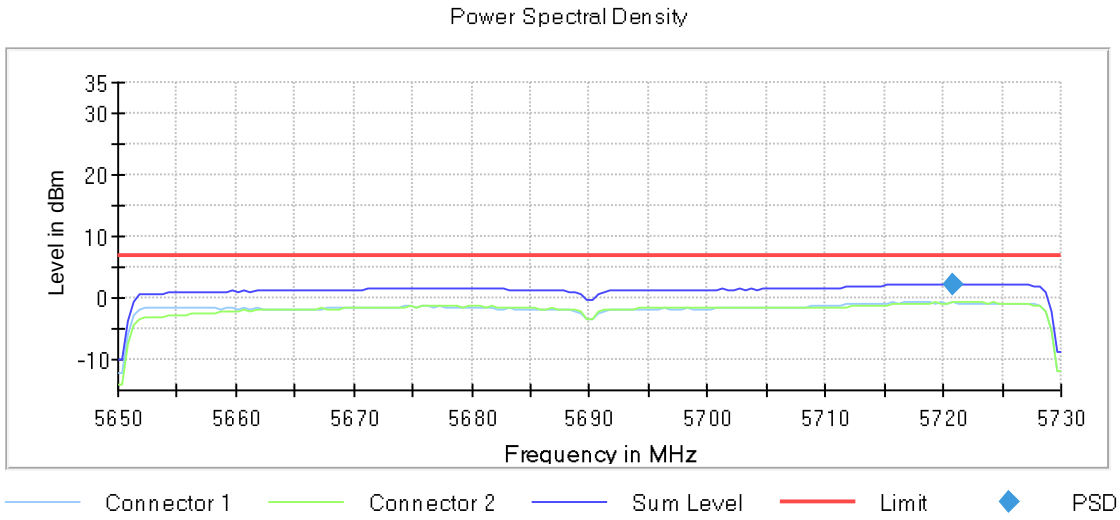

# Power Spectral Density (5690 MHz; 10 dBi Omni (10 dBm); 80 MHz)

## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5690.000000 | 5720.750000 | 2.251 | 7.0 | PASS |

## Ports

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




## Power Spectral Density (5570 MHz; 10 dBi Omni (10 dBm); 160 MHz)

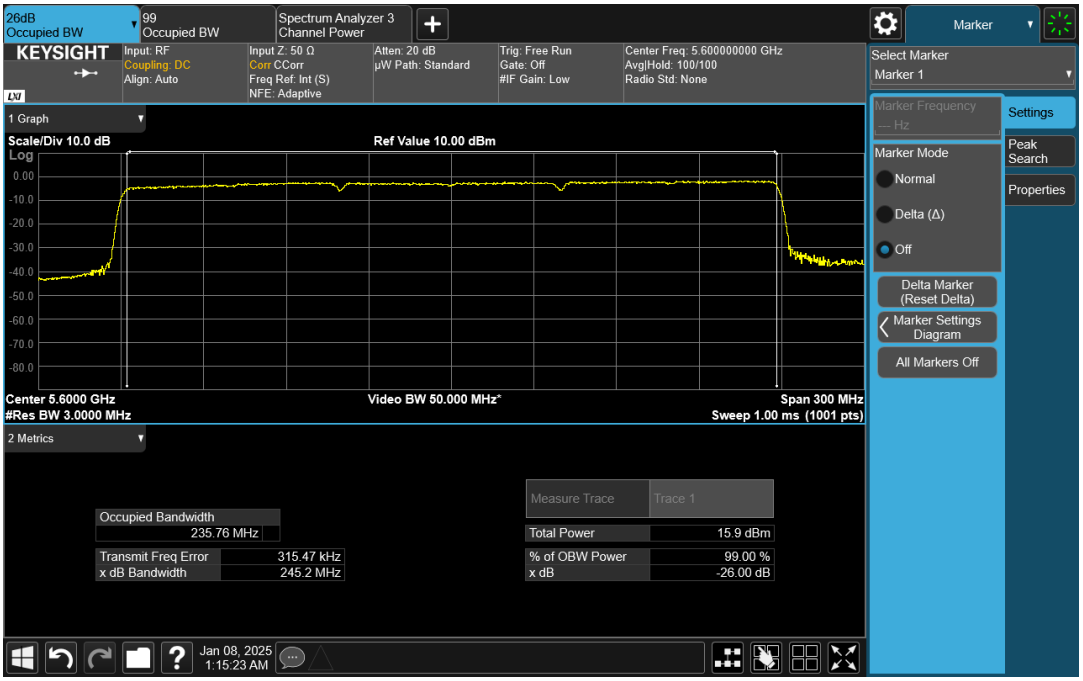
## Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---|---|---|---|---|
| 5570.000000 | 5578.750000 | -0.432 | 7.0 | PASS |

## Ports

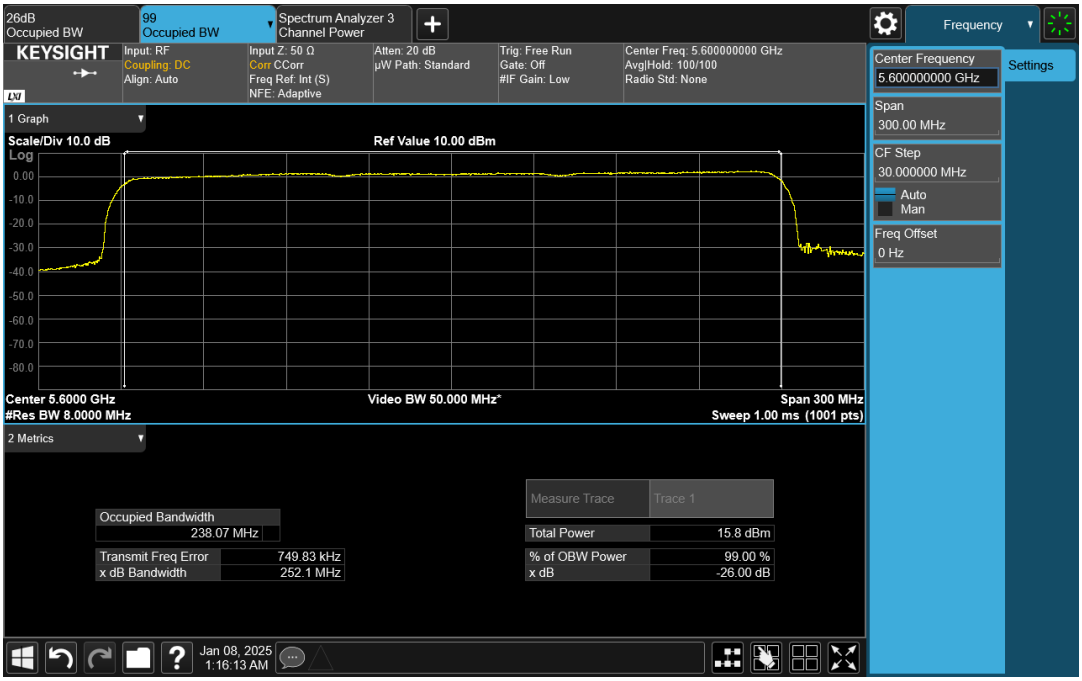
| Port | State |
|---|---|
| 1 | used |
| 2 | used |

## 26dB OBW



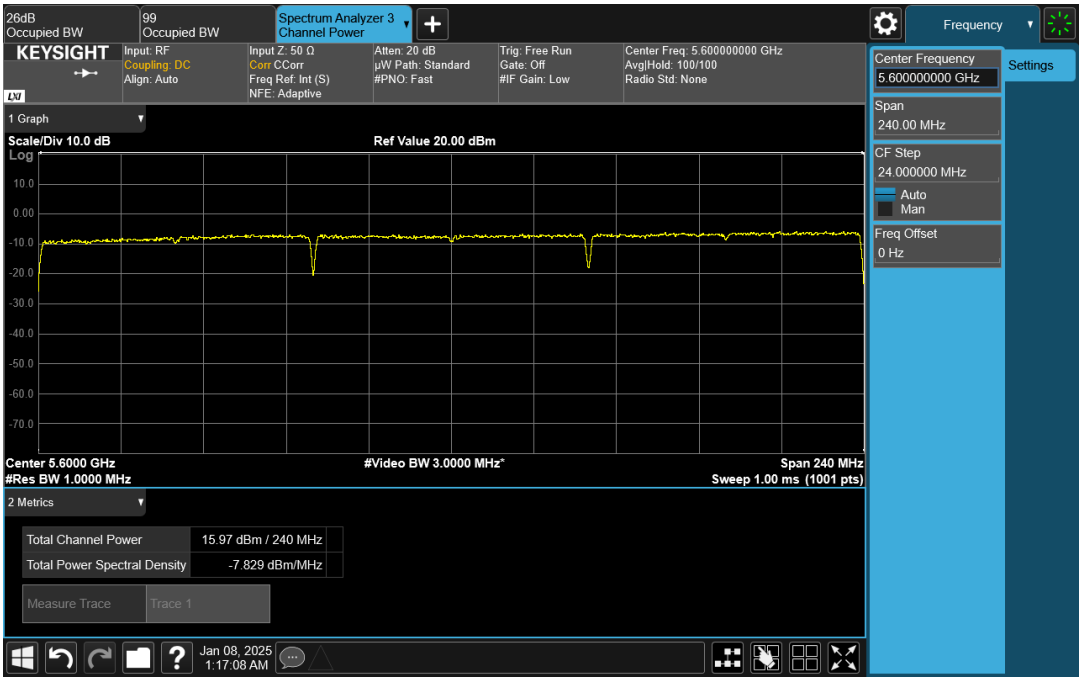

**Wave-MLO5_UNII-2C_HE240_26dB_5600_CH0**

## 99% OBW

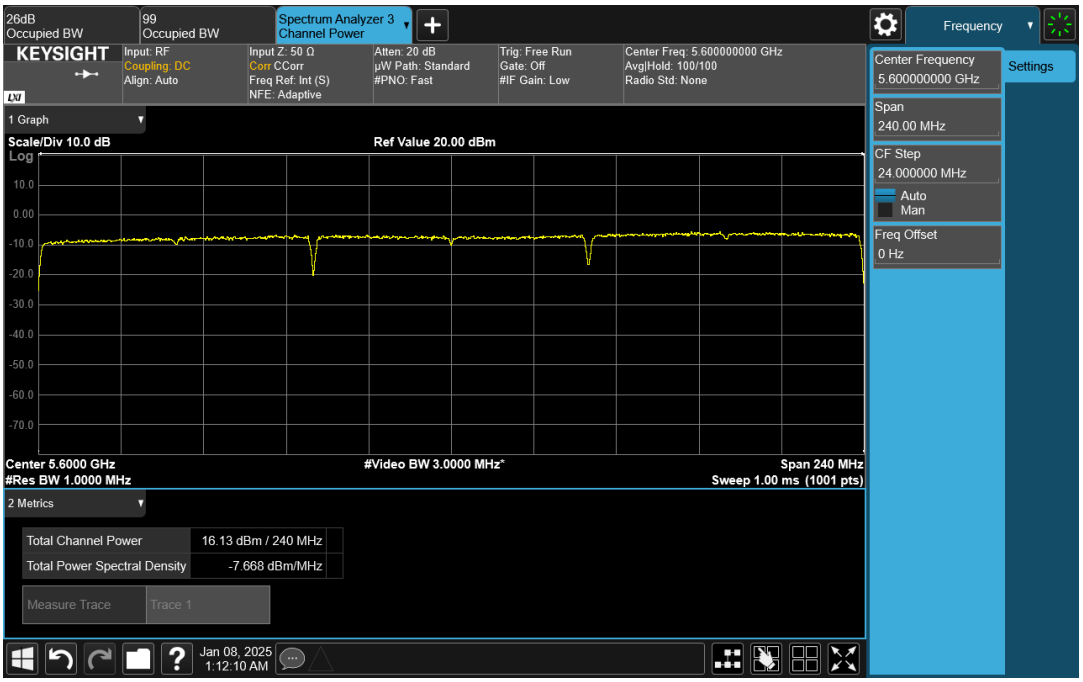



**Wave-MLO5_UNII-2C_HE240_99_5600_CH0**

## Power / PSD




**Wave-MLO5_UNII-2C_HE240_5600_CH0**




**Wave-MLO5_UNII-2C_HE240_5600_CH01**

**-- End of Report –**