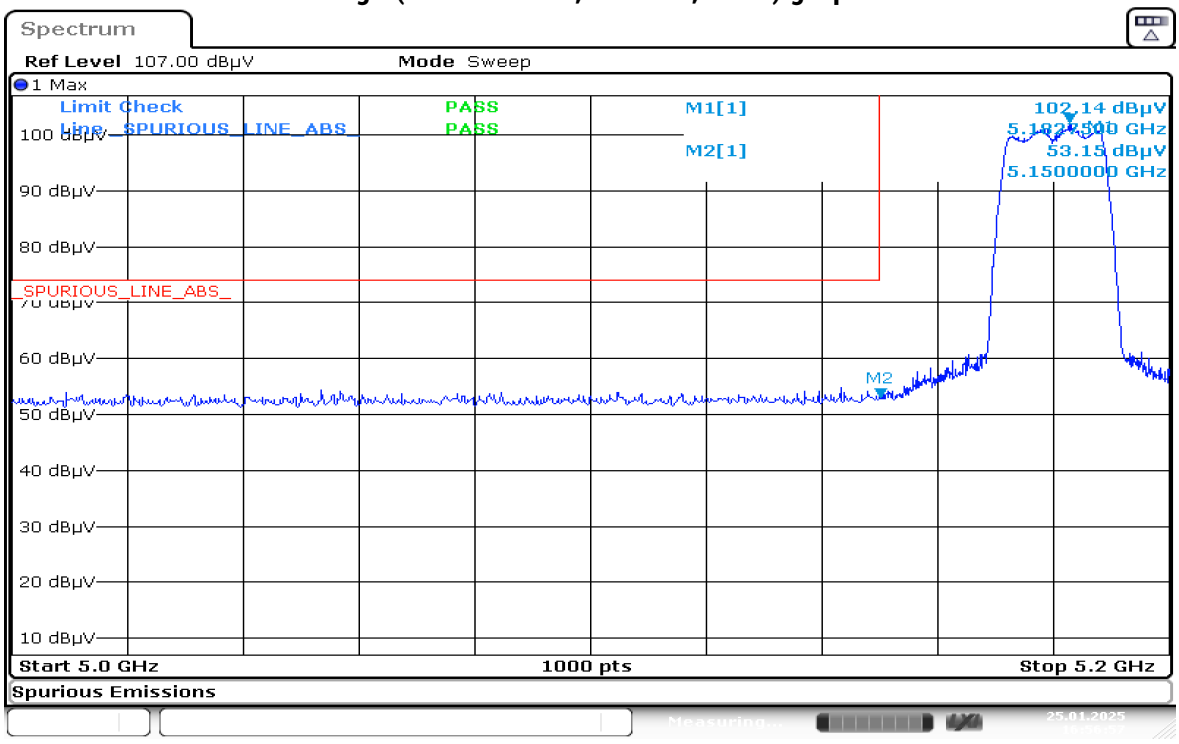
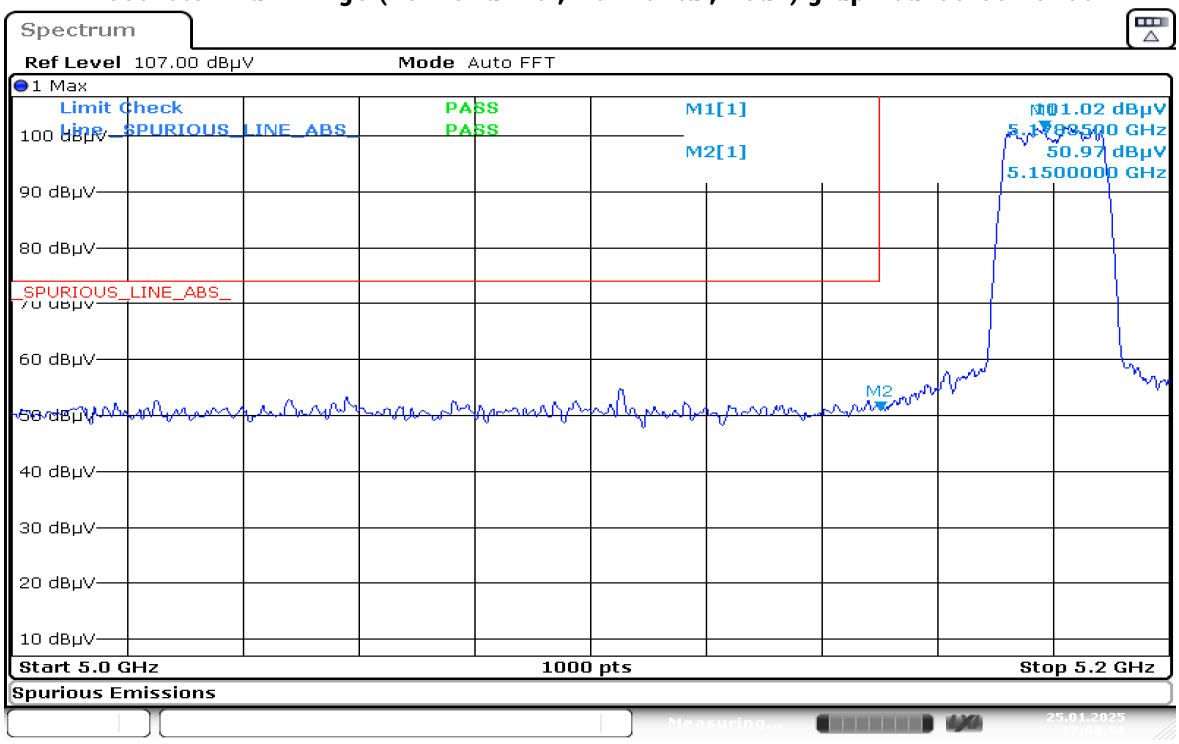
## Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



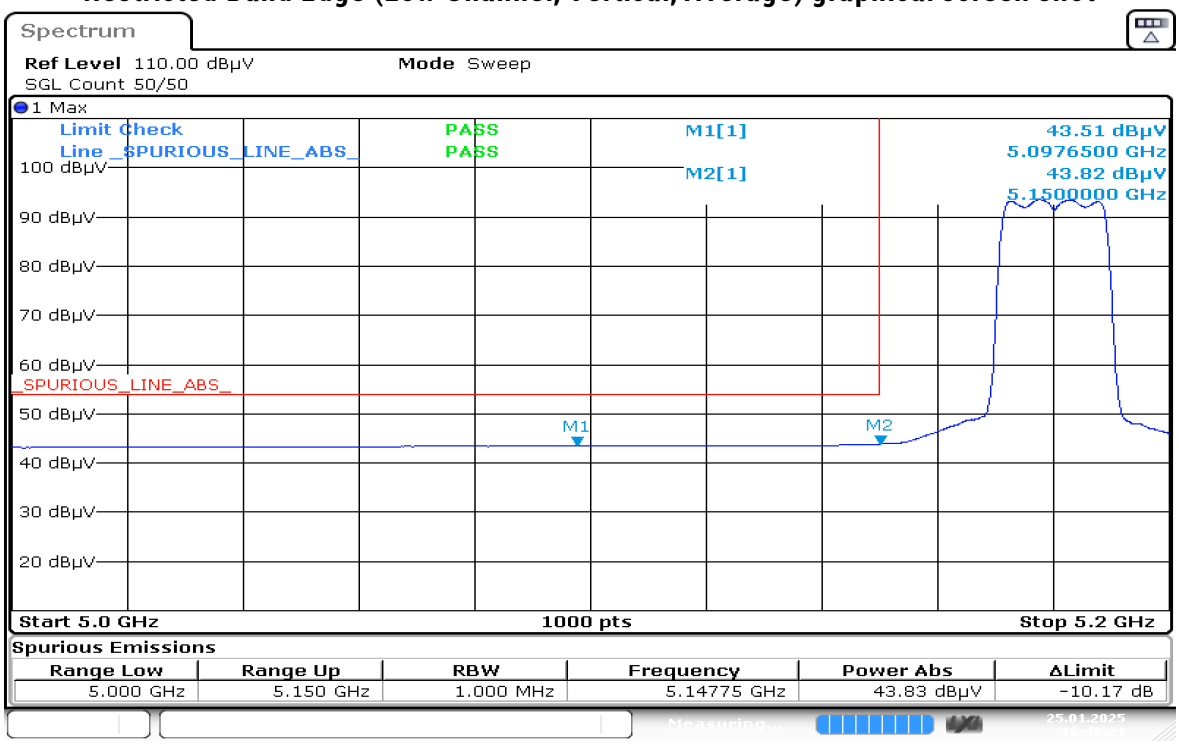

Date: 25.JAN.2025 16:56:57

## Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



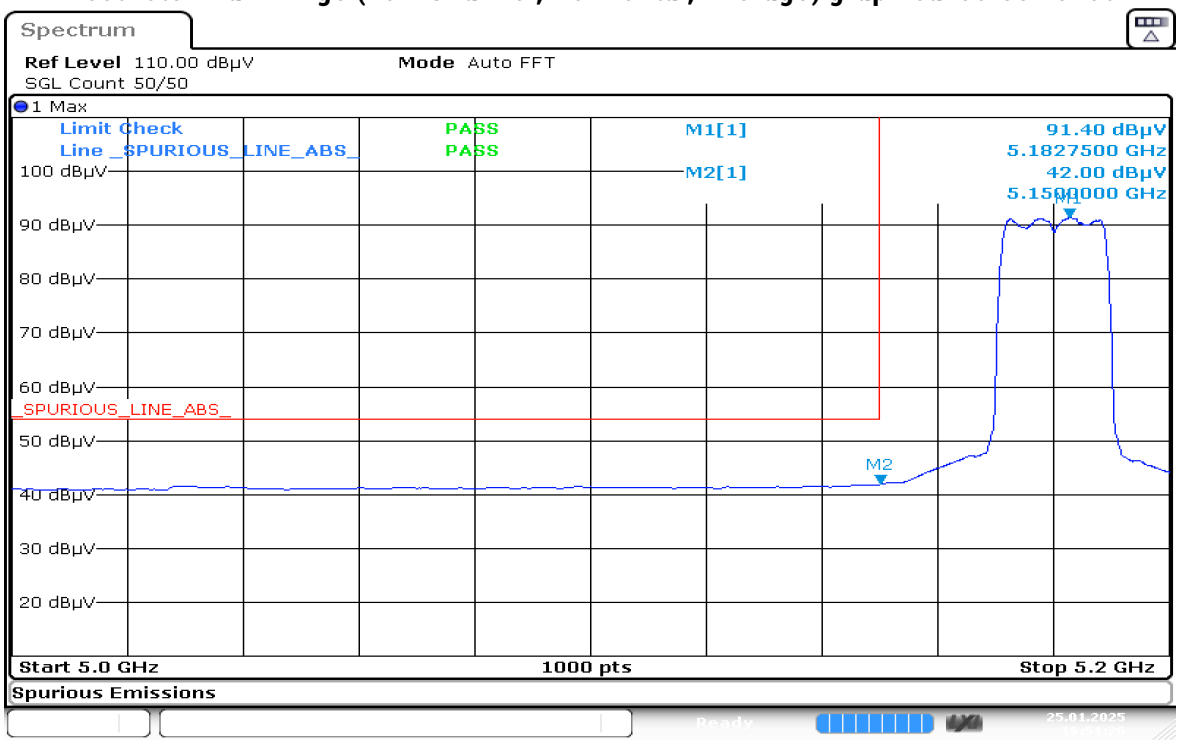

Date: 25.JAN.2025 17:00:51

## Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot




Date: 25.JAN.2025 16:46:21

## Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot




Date: 25.JAN.2025 16:51:27

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: High** | **Test Frequency: 5320.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n20** | **Softpot power (11)** |

## Restricted Band Edge (High Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5350.0000 | - | 51.8823 | 43.1089 | - | 74.0000 | 54.0000 | - | 22.1177 | 10.8911 | - |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5350.0000 | - | 49.7179 | 41.3732 | - | 74.0000 | 54.0000 | - | 24.2821 | 12.6268 | - |
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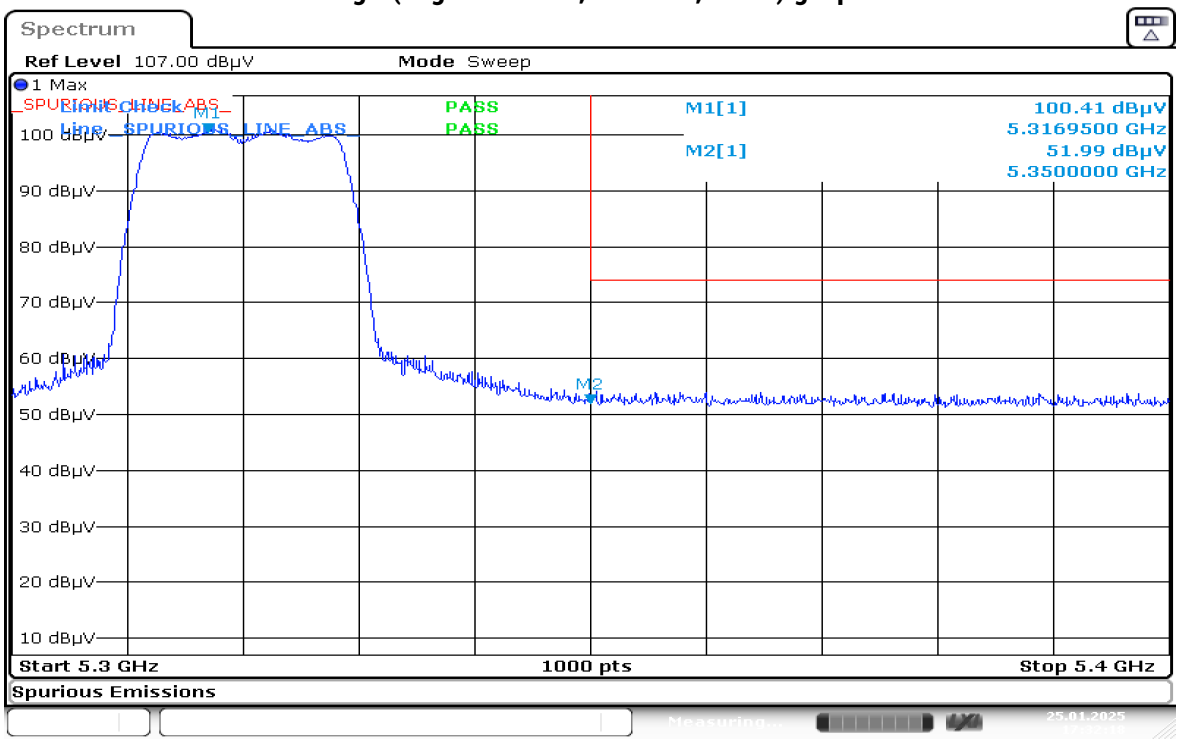
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

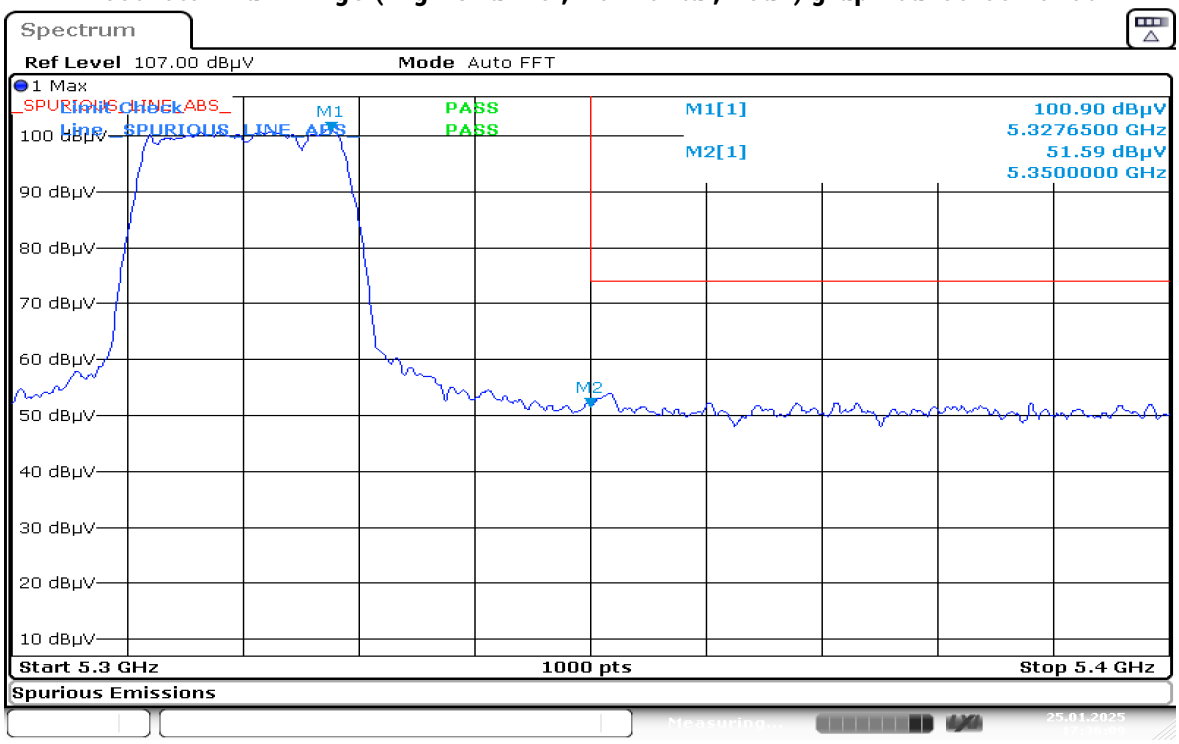
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Sat, 25 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



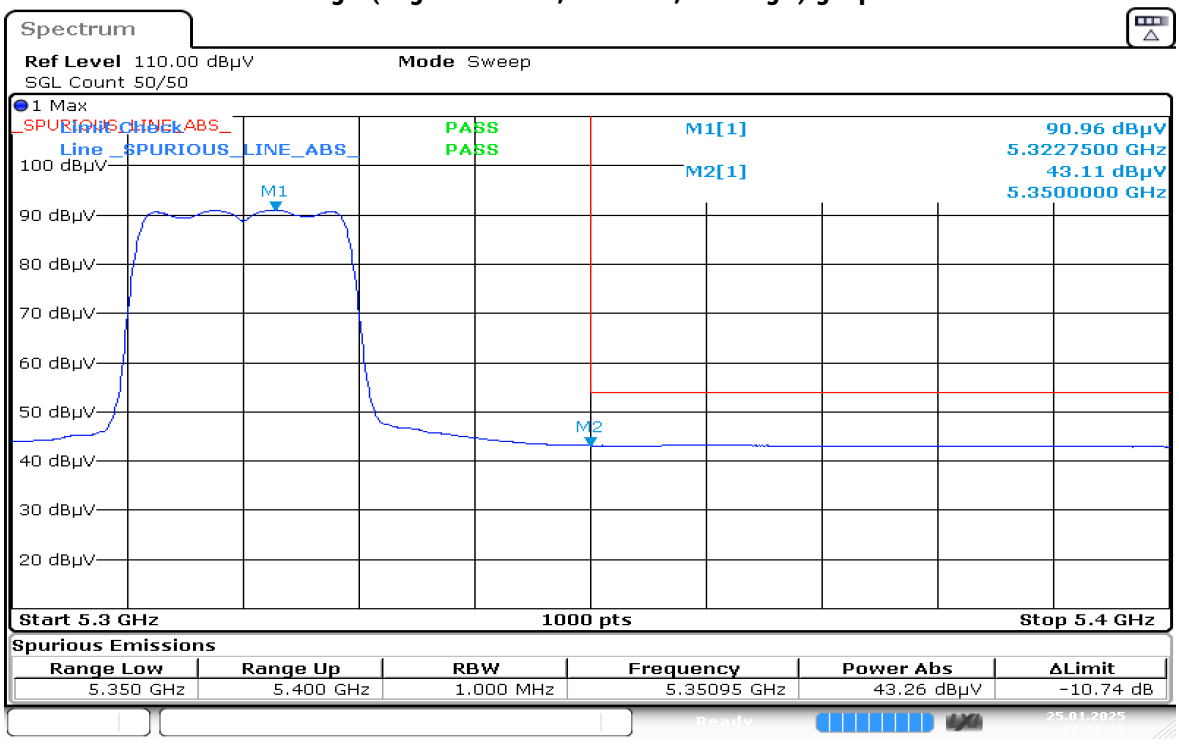

Date: 25.JAN.2025 17:32:18

## Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot



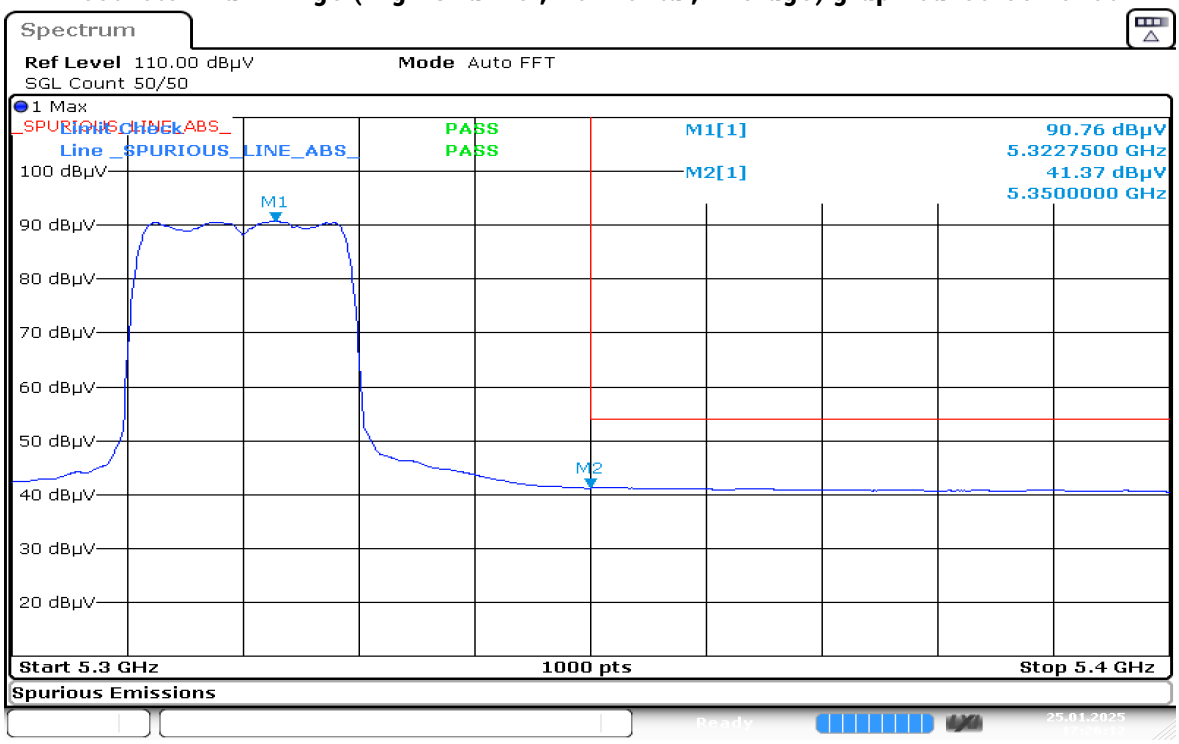

Date: 25.JAN.2025 17:36:09

## Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot




Date: 25.JAN.2025 17:21:37

## Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot




Date: 25.JAN.2025 17:26:13

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: Low** | **Test Frequency: 5500.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n20** | **Softpot power (11)** |

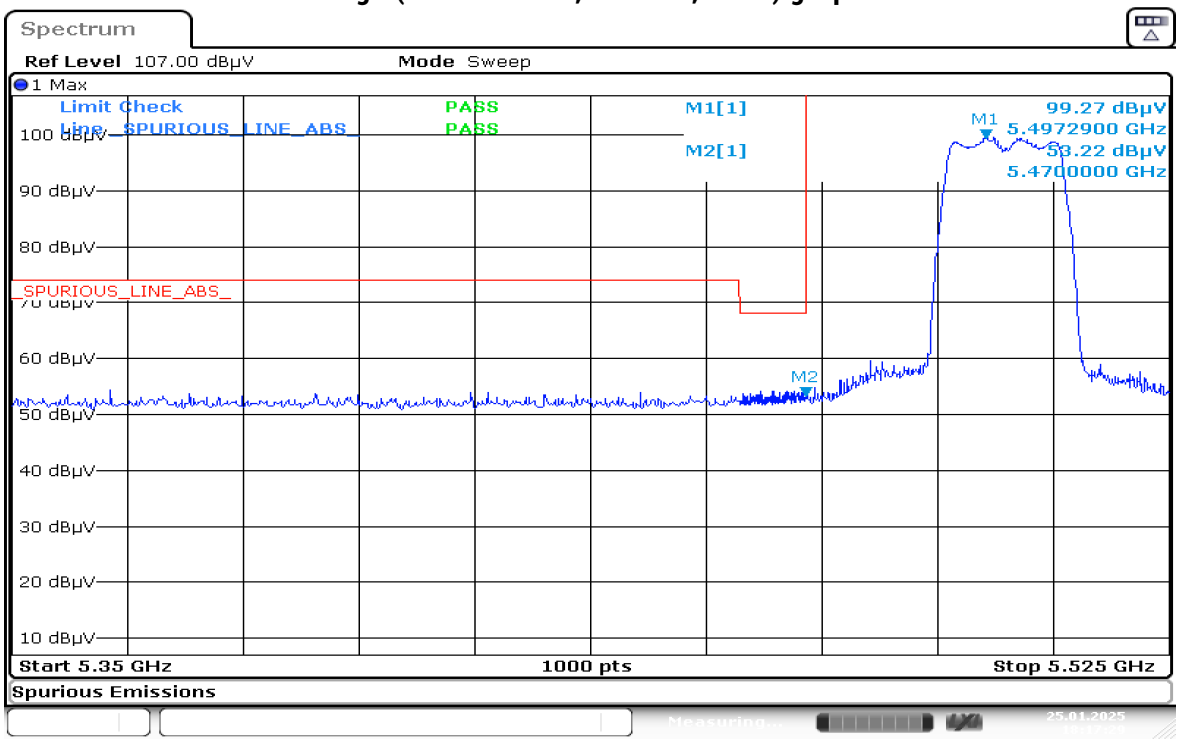
## Restricted Band Edge (Low Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5460.0000 | - | - | 43.0236 | - | - | 54.0000 | - | - | 10.9764 | - |
| 5470.0000 | - | 52.5480 | - | - | 68.2000 | - | - | 15.6520 | - | - |
| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5460.0000 | - | - | 41.1751 | - | - | 54.0000 | - | - | 12.8249 | - |
| 5470.0000 | - | 53.5426 | - | - | 68.2000 | - | - | 14.6574 | - | - |

| | | |
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

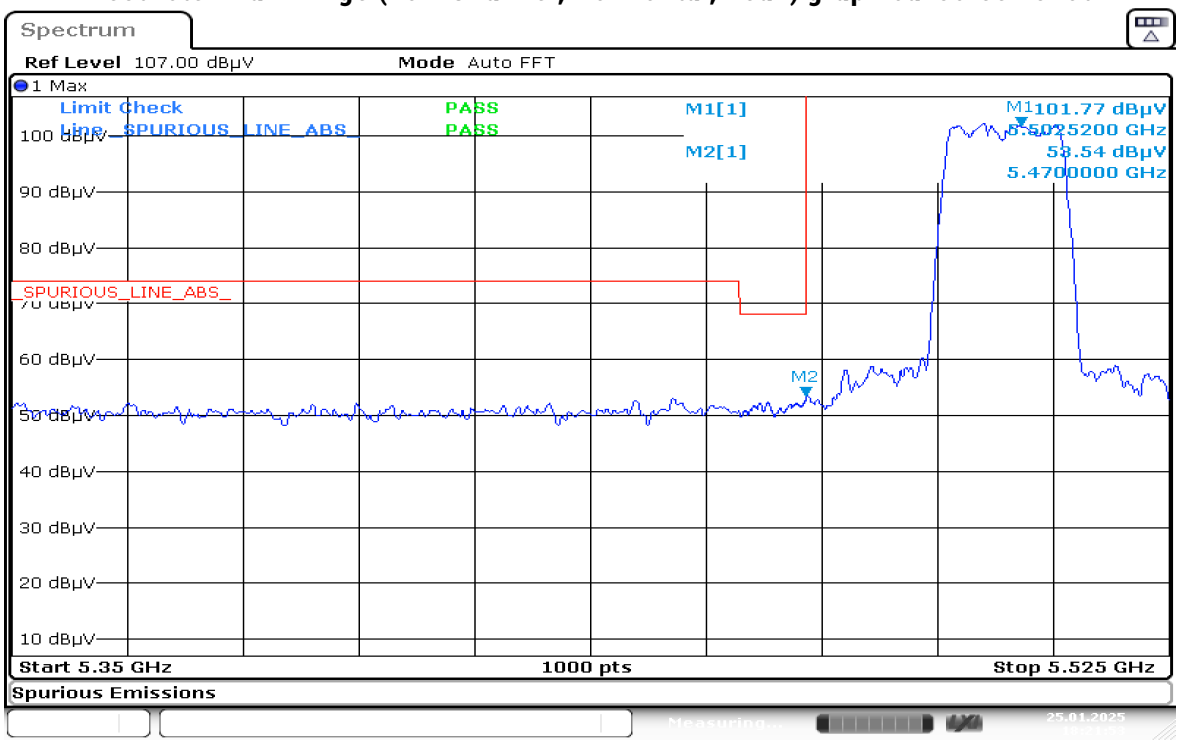
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Sun, 26 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



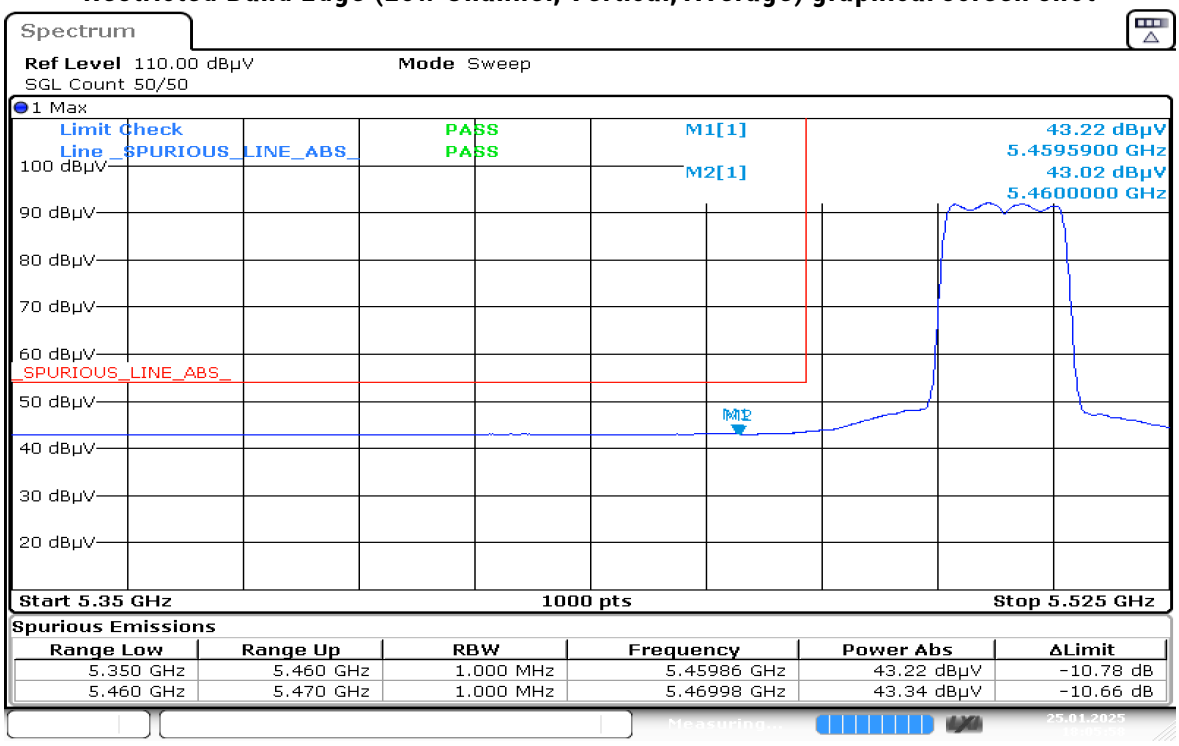

Date: 25.JAN.2025 18:17:29

## Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



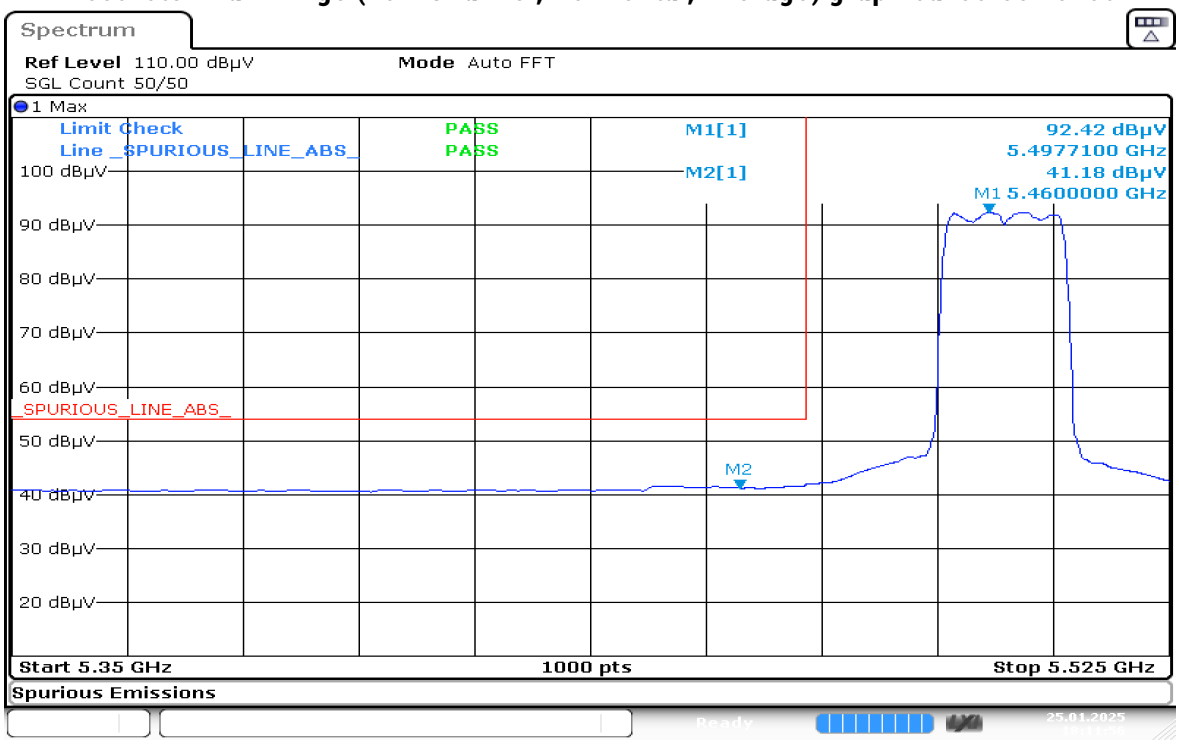

Date: 25.JAN.2025 18:21:53

## Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot




Date: 25.JAN.2025 18:05:58

## Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot




Date: 25.JAN.2025 18:11:56

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: High** | **Test Frequency: 5700.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n20** | **Softpot power (9)** |

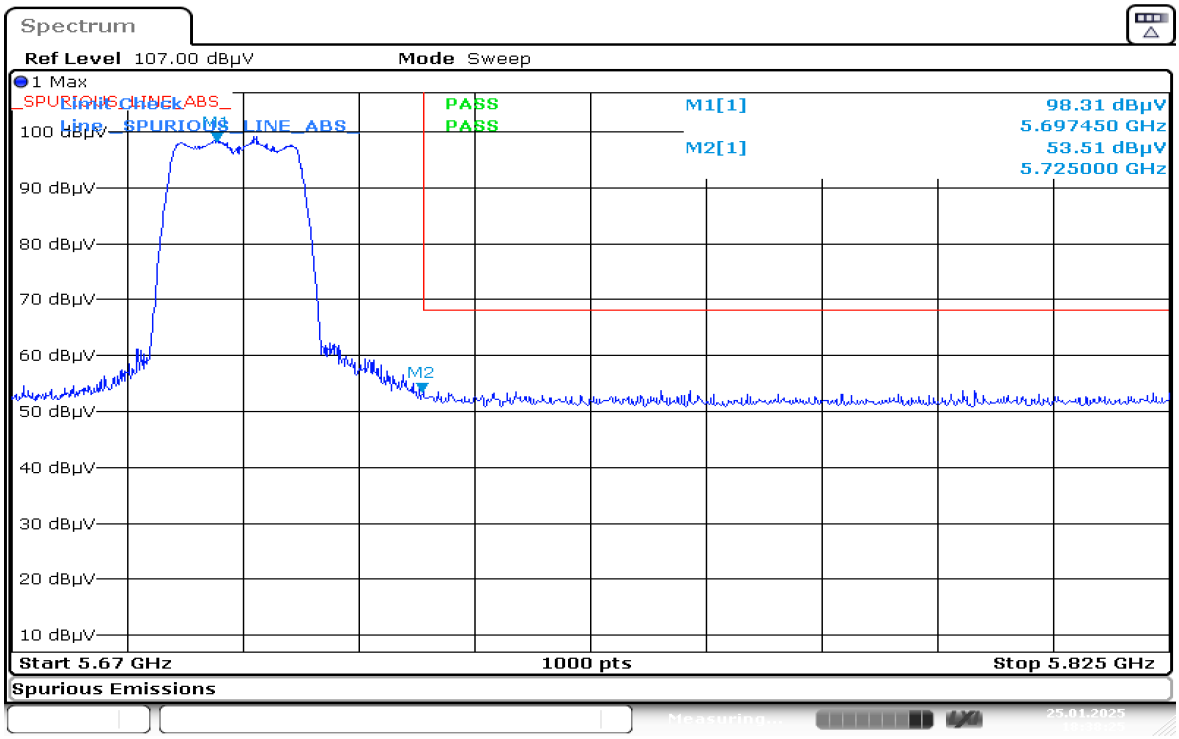
## Restricted Band Edge (High Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5725.0000 | - | 53.5141 | - | - | 68.2000 | - | - | 14.6859 | - | - |
| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5725.0000 | - | 51.8325 | - | - | 68.2000 | - | - | 16.3675 | - | - |

| | | |
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

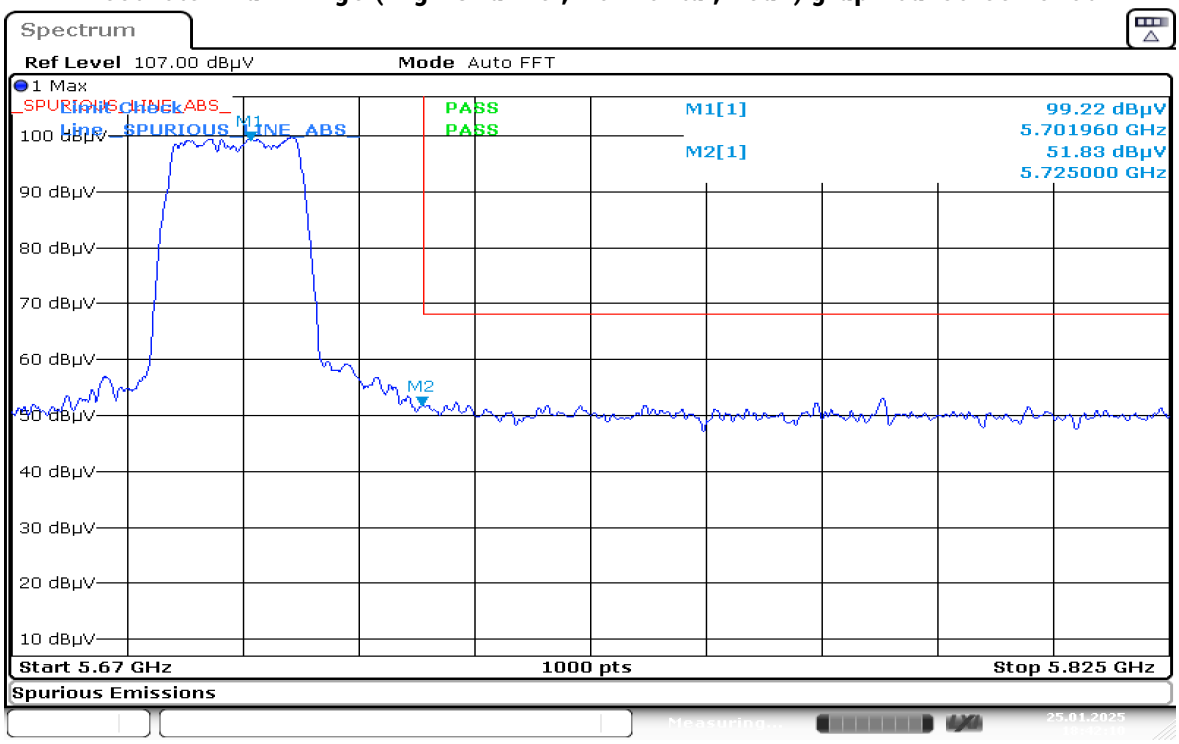
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Sun, 26 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot




Date: 25.JAN.2025 18:38:25

## Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot




Date: 25.JAN.2025 18:42:10

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: Straddle** | **Test Frequency: 5720.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n20** | **Softpot power (14)** |

## Restricted Band Edge (Straddle Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
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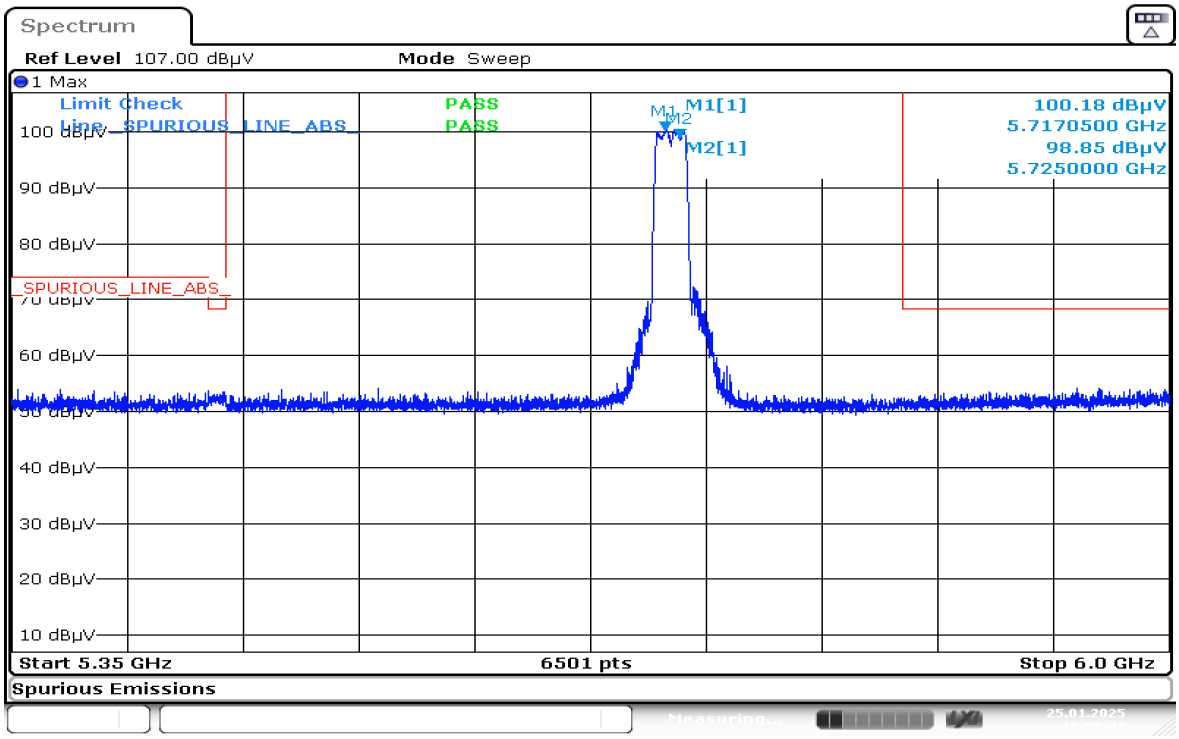
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

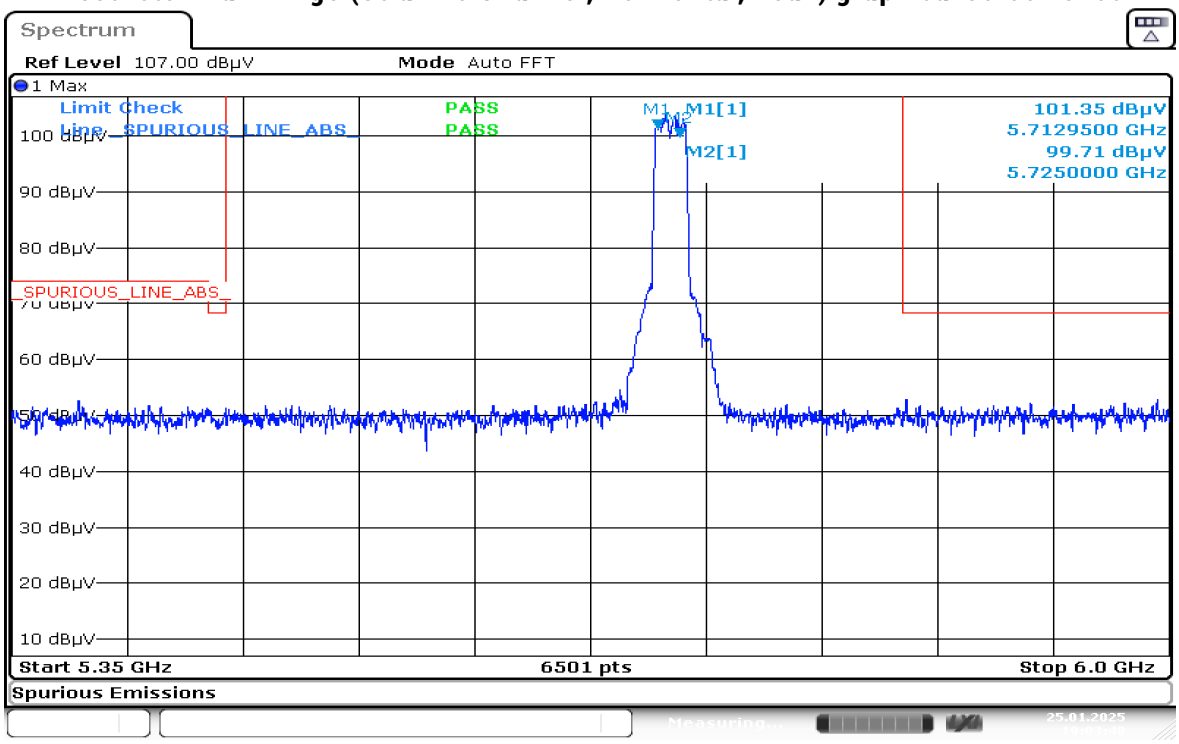
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Sun, 26 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (Straddle Channel, Vertical, Peak) graphical screen shot




Date: 25.JAN.2025 18:59:41

## Restricted Band Edge (Straddle Channel, Horizontal, Peak) graphical screen shot




Date: 25.JAN.2025 19:03:48

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: Low** | **Test Frequency: 5745.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n20** | **Softpot power (12)** |

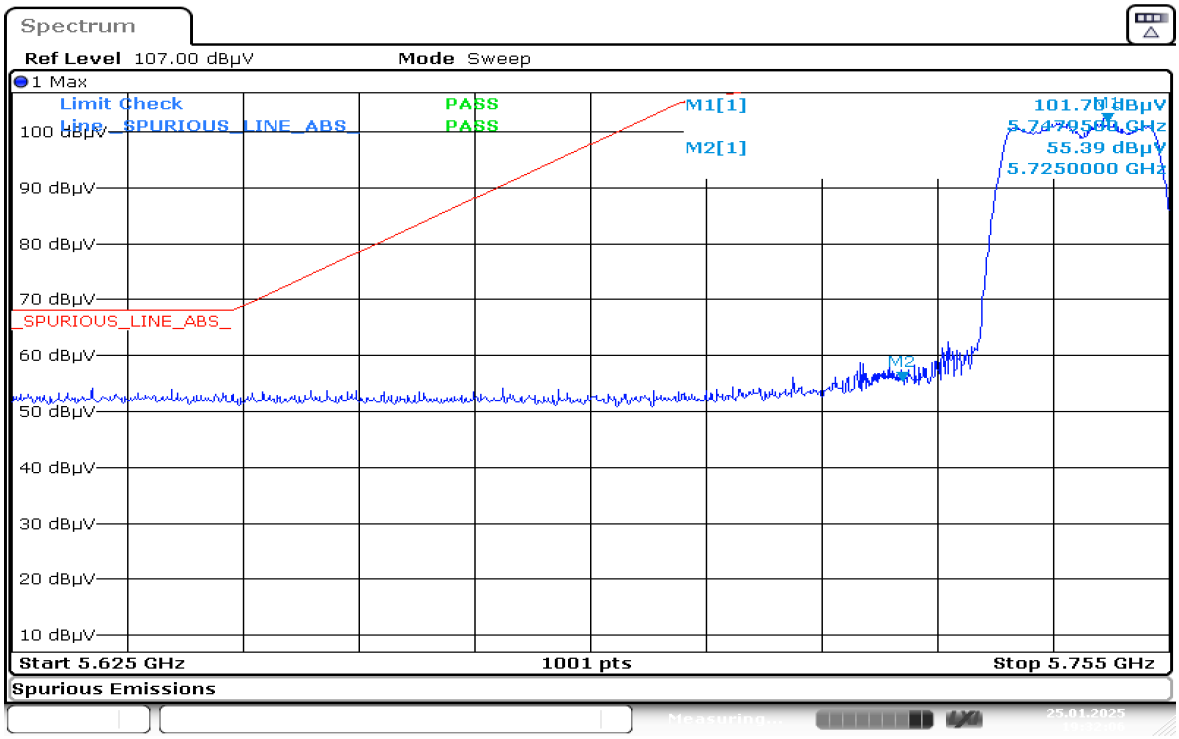
## Restricted Band Edge (Low Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5725.0000 | - | - | 55.1060 | - | - | 122.2000 | - | - | 67.0940 | - |
| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5725.0000 | - | - | 61.5916 | - | - | 122.2000 | - | - | 60.6084 | - |

| | | |
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

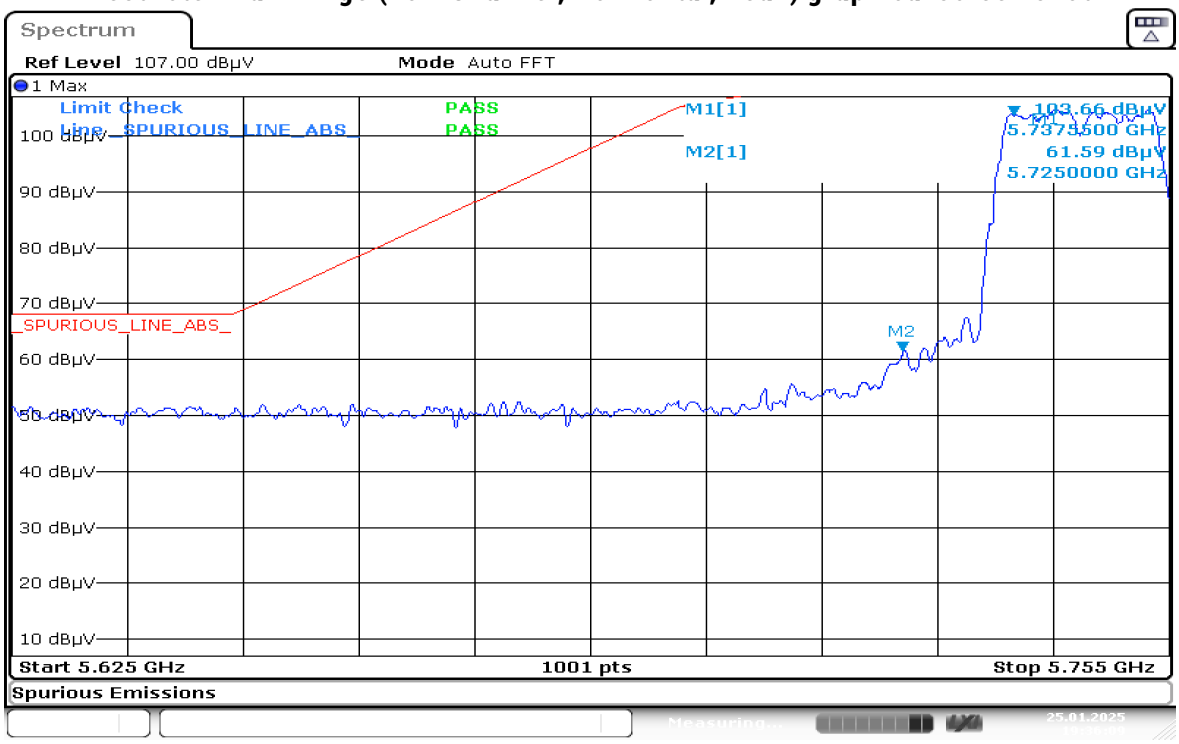
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Sun, 26 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot




Date: 25.JAN.2025 19:32:07

## Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot




Date: 25.JAN.2025 19:36:09

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: High** | **Test Frequency: 5825.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n20** | **Softpot power (9)** |

## Restricted Band Edge (High Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5850.0000 | - | - | 51.8639 | - | - | 122.2000 | - | - | 70.3361 | - |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5850.0000 | - | - | 49.4616 | - | - | 122.2000 | - | - | 72.7384 | - |
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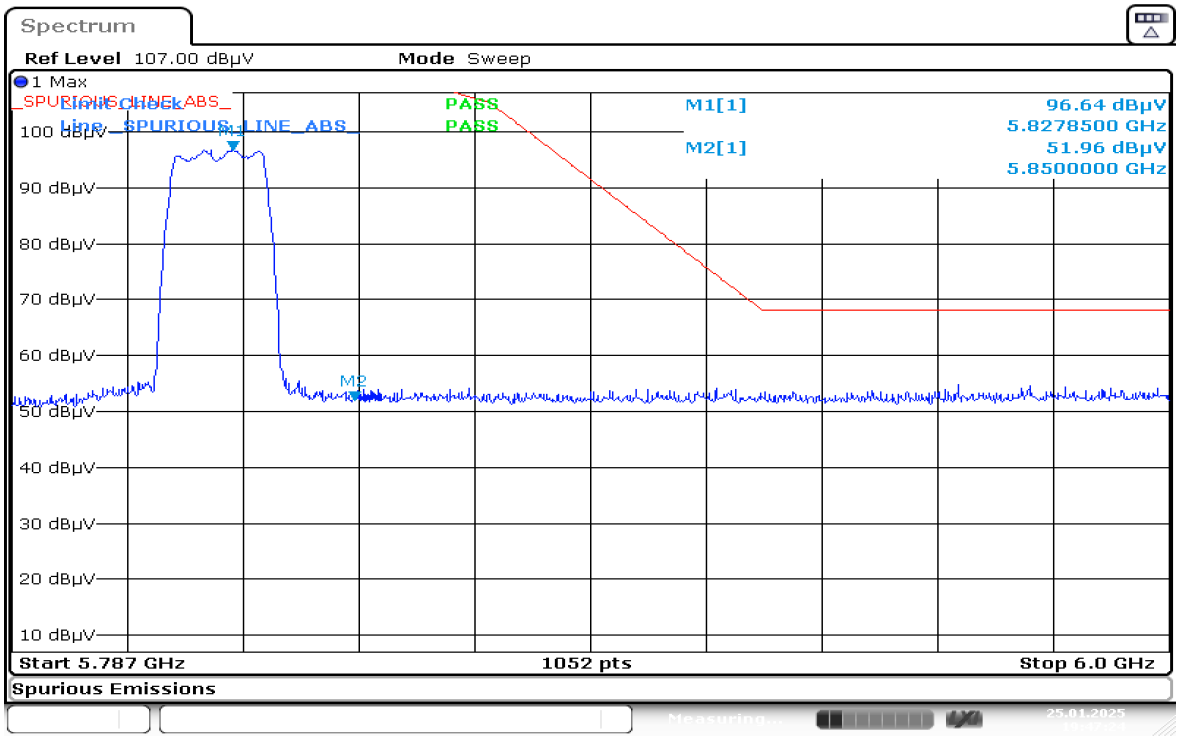
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

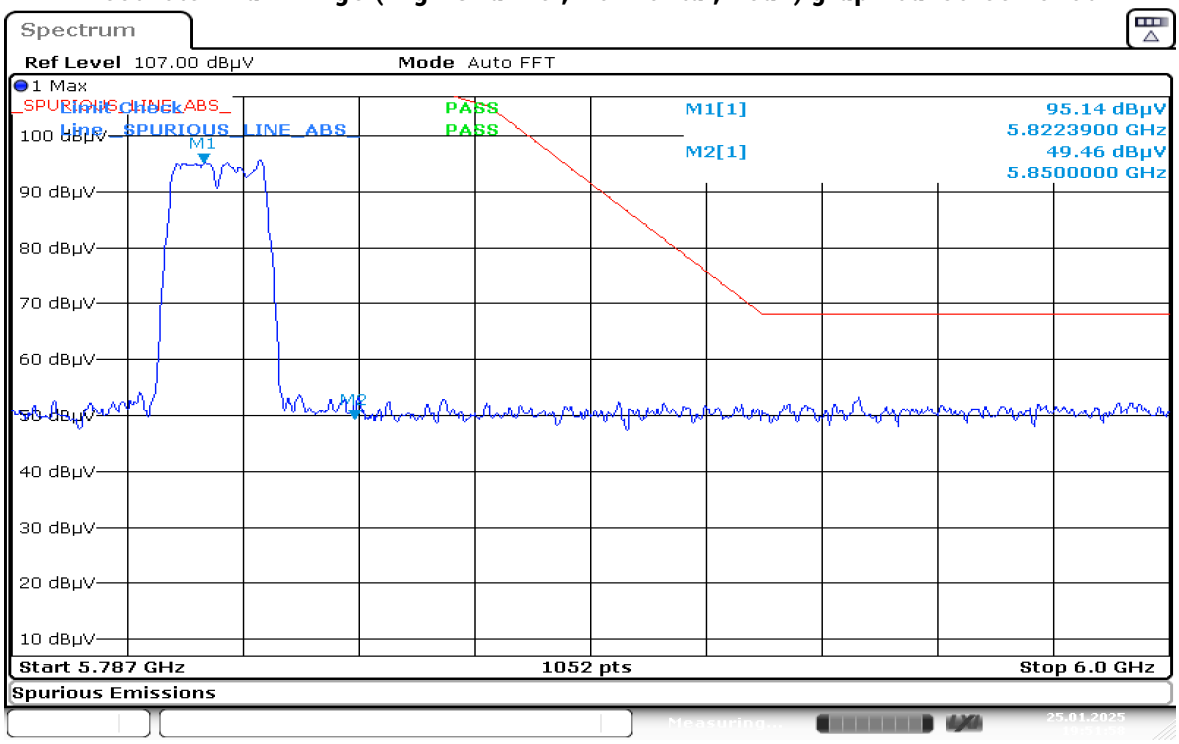
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Sun, 26 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot




Date: 25.JAN.2025 19:47:24

## Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot




Date: 25.JAN.2025 19:51:58

## 802.11n (HT40)

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: Low** | **Test Frequency: 5190.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n40** | **Softpot power (10)** |

### Restricted Band Edge (Low Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5150.0000 | - | 54.7321 | 45.3574 | - | 74.0000 | 54.0000 | - | 19.2679 | 8.6426 | - |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5150.0000 | - | 53.8165 | 43.2702 | - | 74.0000 | 54.0000 | - | 20.1835 | 10.7298 | - |
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| Remarks:<br>Pass Result | Marginal Result | Fail Result |

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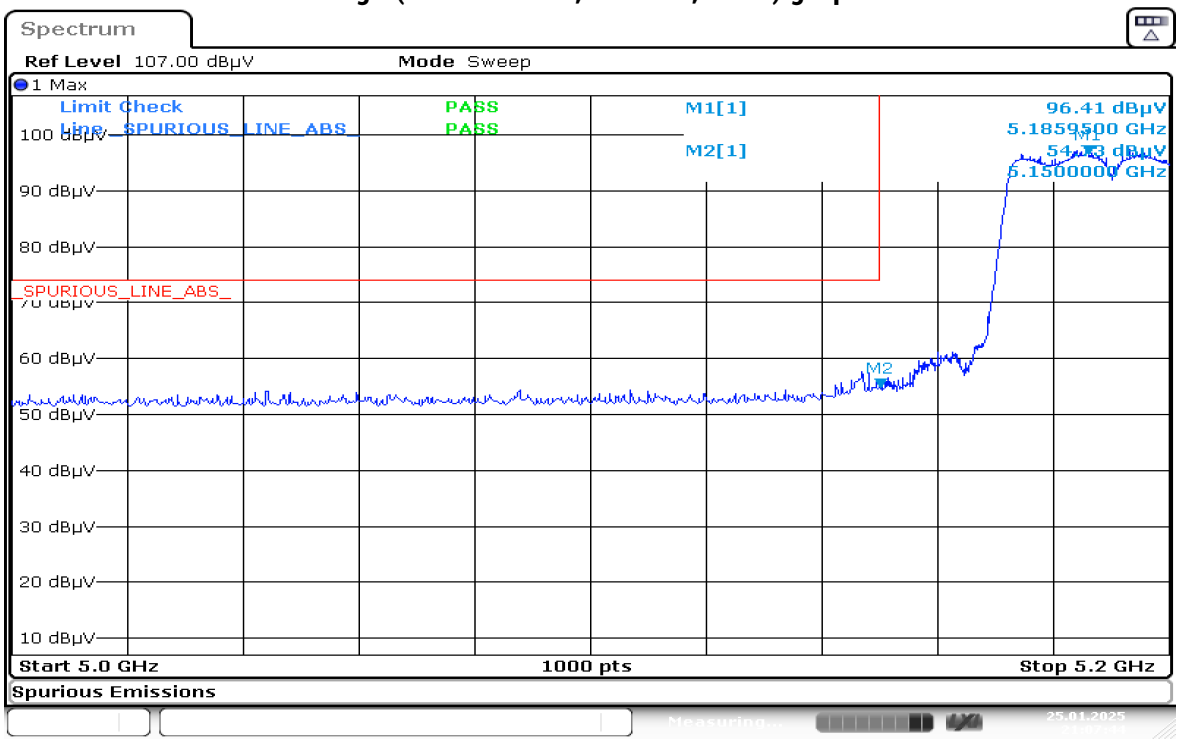
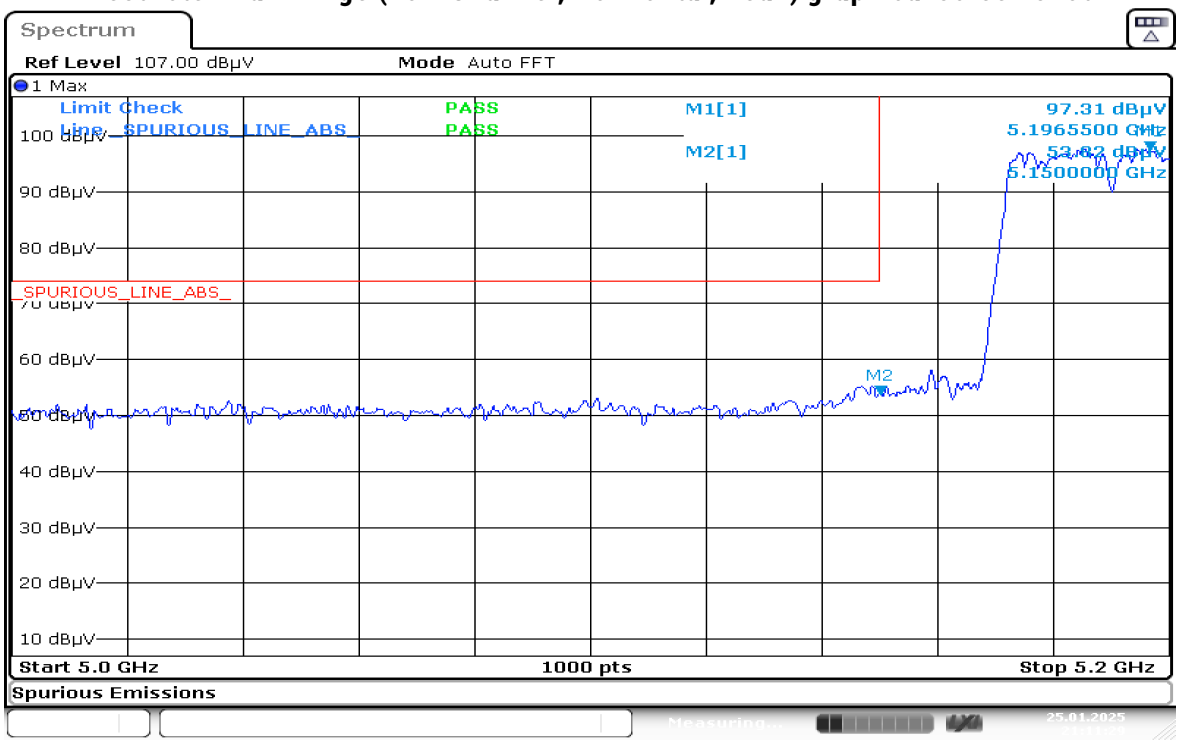
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Sun, 26 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



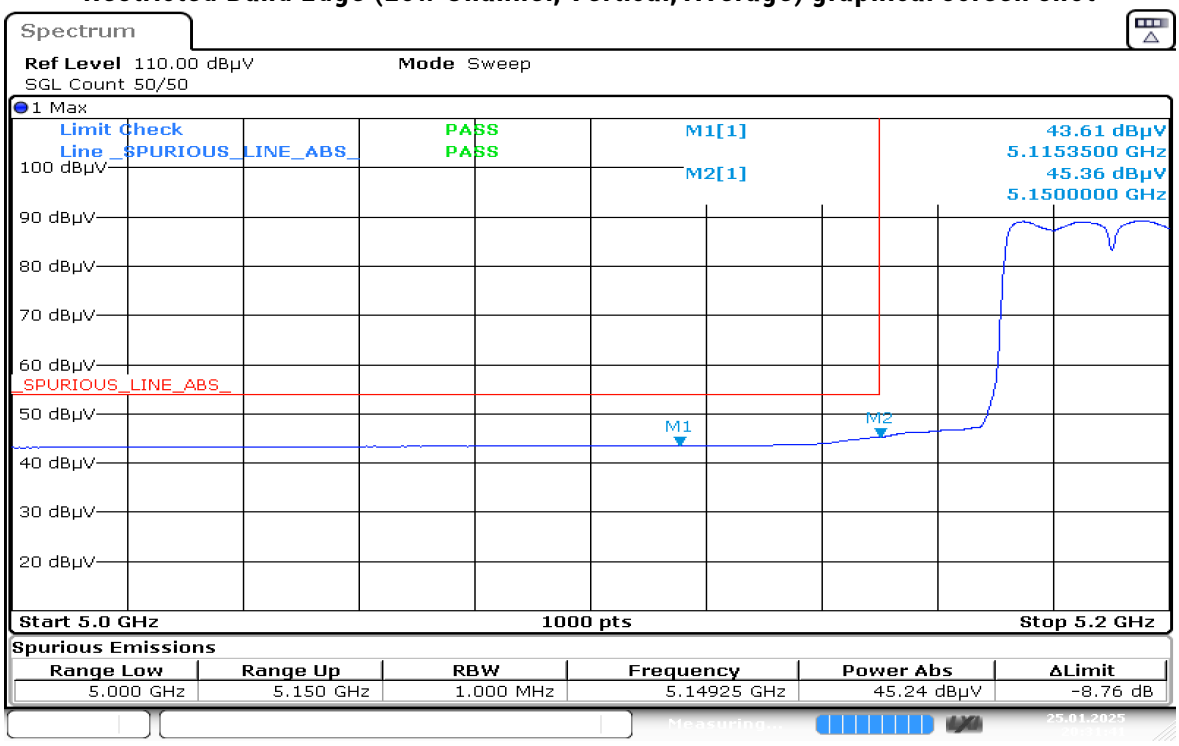

Date: 25.JAN.2025 21:07:45

## Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



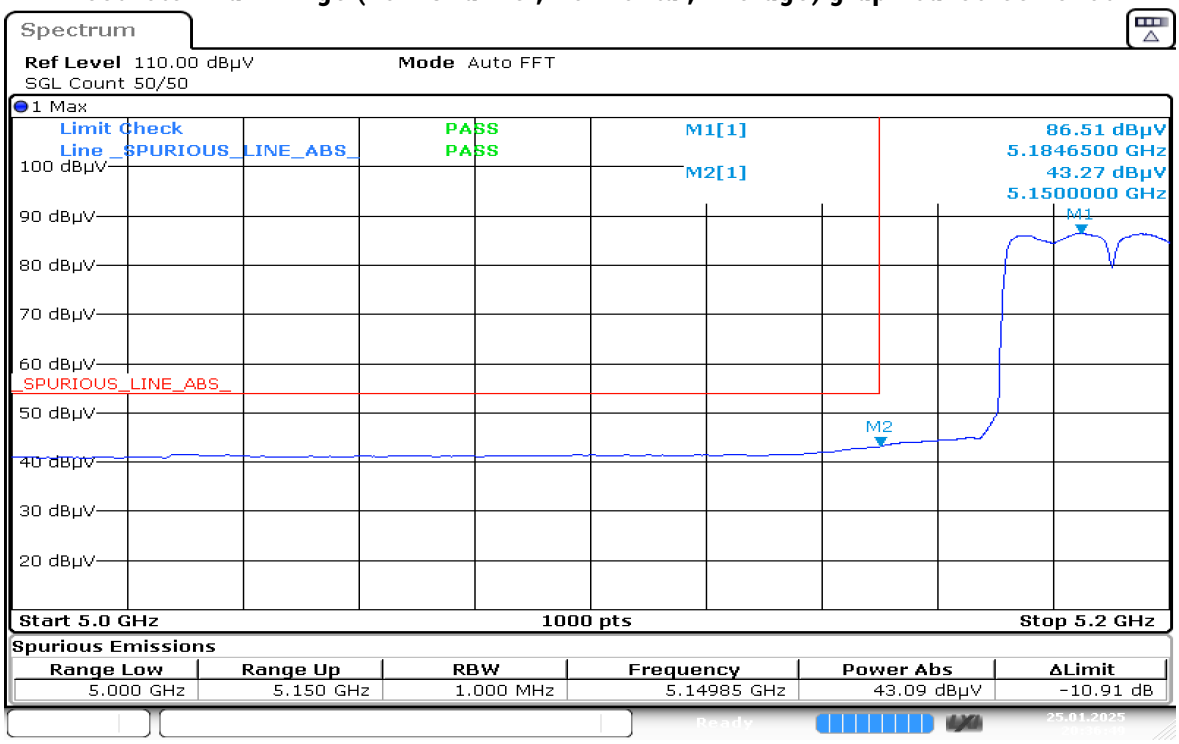

Date: 25.JAN.2025 21:11:29

## Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot




Date: 25.JAN.2025 20:31:41

## Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot




Date: 25.JAN.2025 20:36:49

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|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: High** | **Test Frequency: 5310.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n40** | **Softpot power (11)** |

## Restricted Band Edge (High Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5350.0000 | - | 52.4595 | 44.3228 | - | 74.0000 | 54.0000 | - | 21.5405 | 9.6772 | - |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5350.0000 | - | 54.7008 | 43.2232 | - | 74.0000 | 54.0000 | - | 19.2992 | 10.7768 | - |
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| Remarks:<br>Pass Result | Marginal Result | Fail Result |

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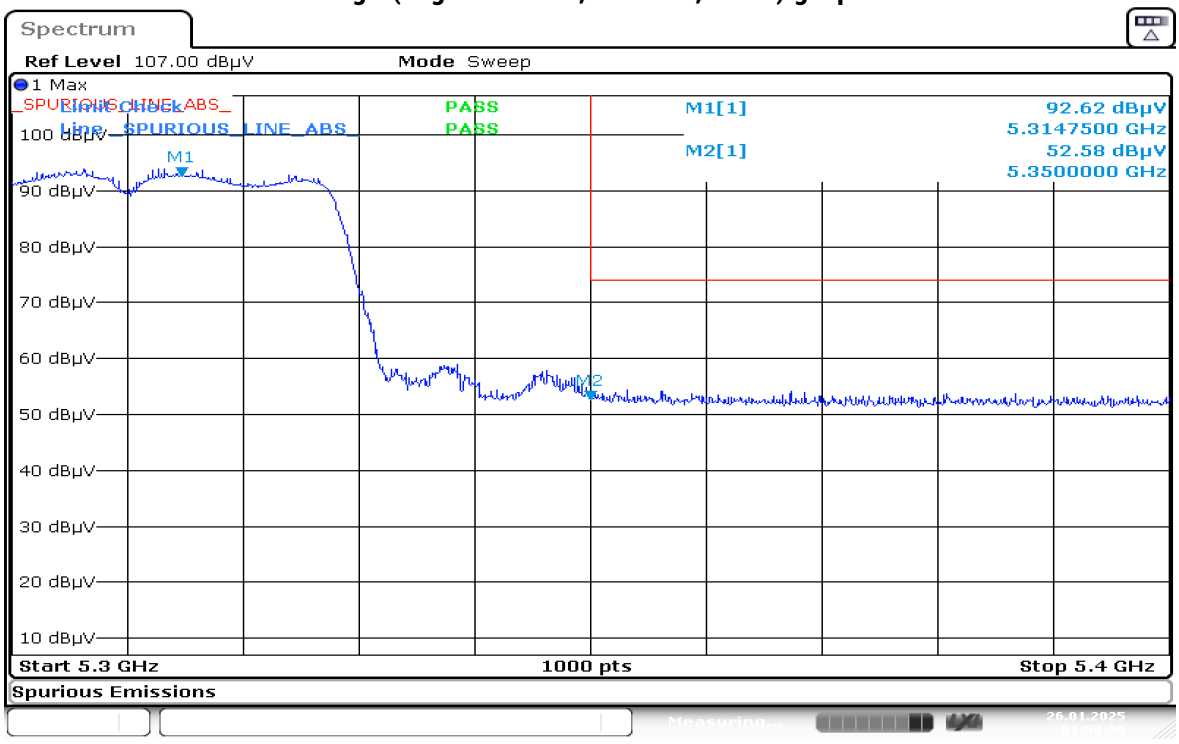
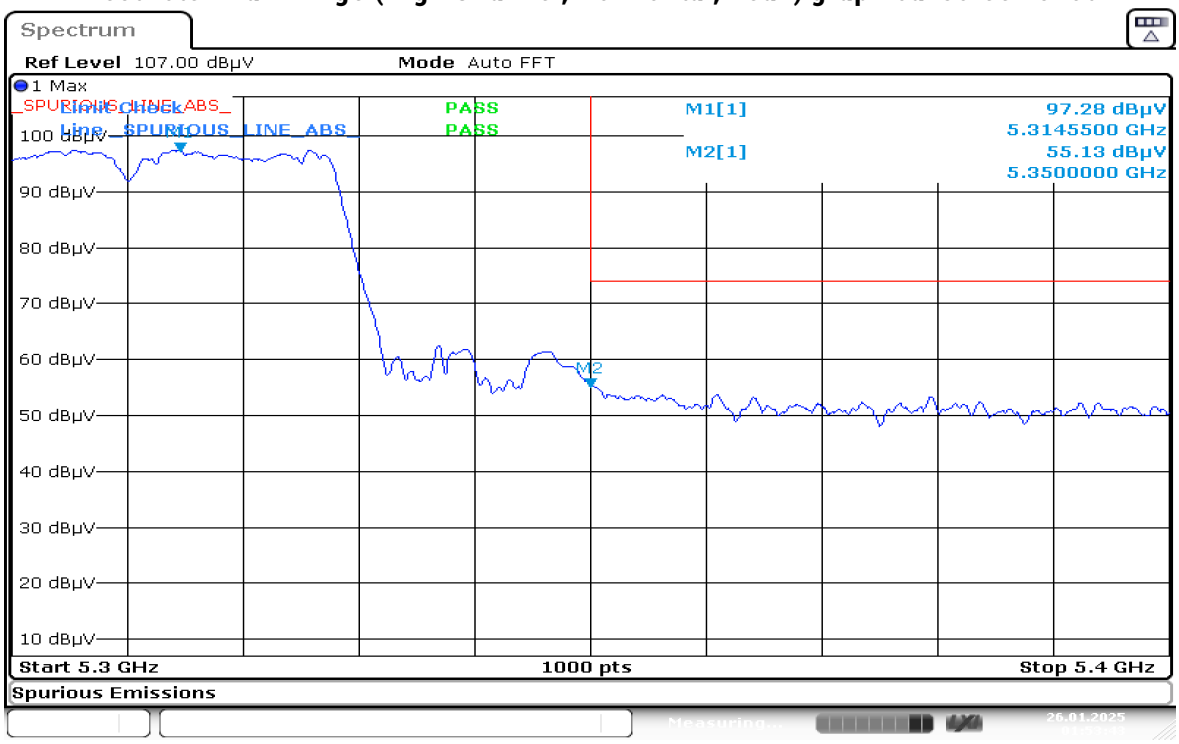
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Sun, 26 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



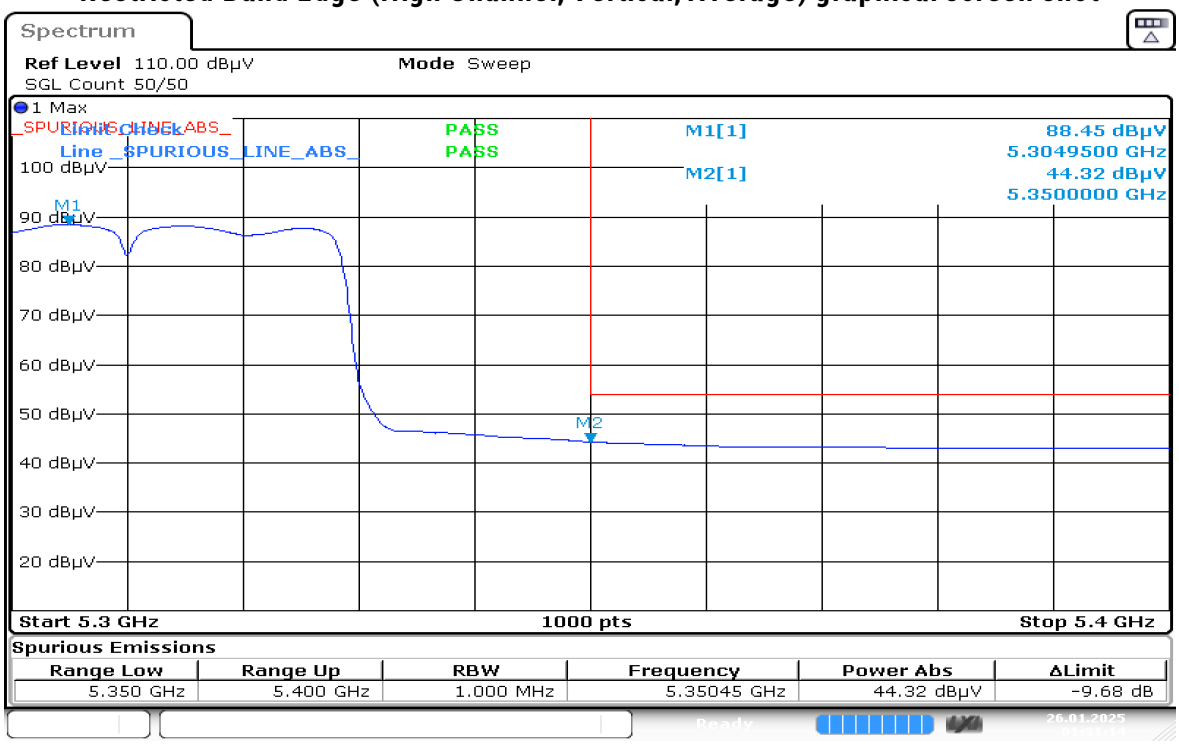

Date: 26.JAN.2025 01:50:01

## Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot



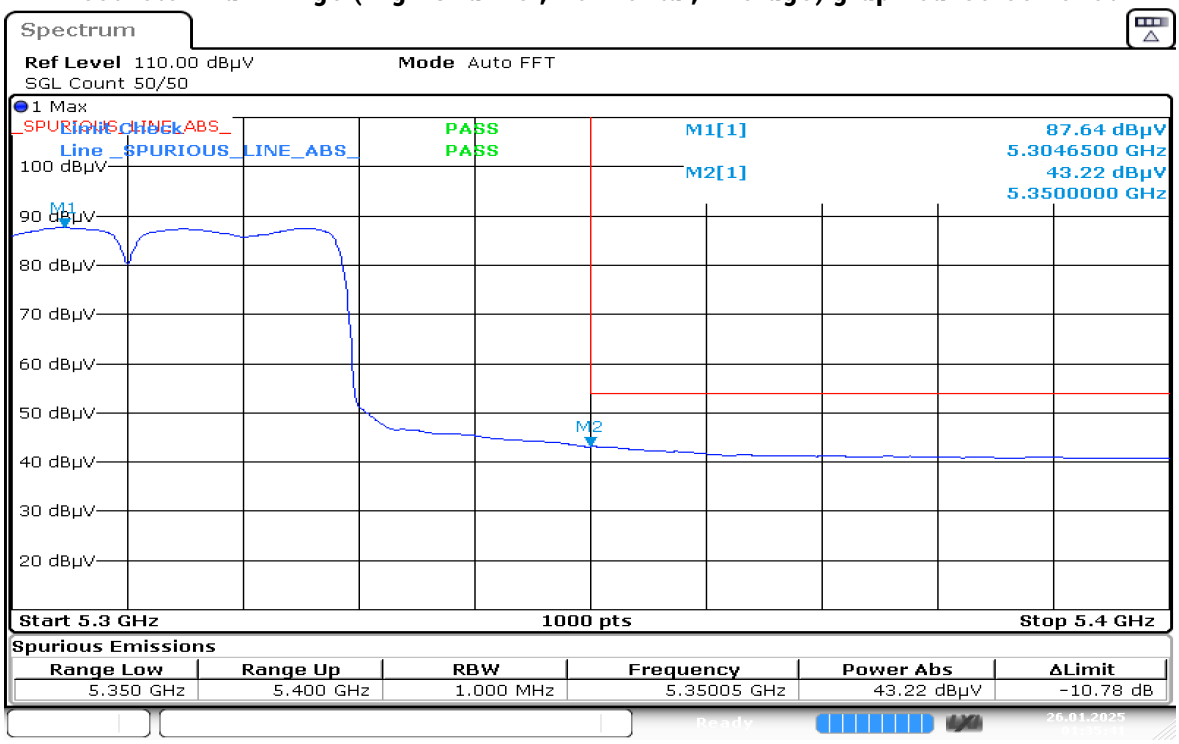

Date: 26.JAN.2025 01:53:44

## Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot




Date: 26.JAN.2025 01:31:14

## Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot




Date: 26.JAN.2025 01:35:42

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|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: Low** | **Test Frequency: 5510.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n40** | **Softpot power (10)** |

## Restricted Band Edge (Low Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5460.0000 | - | - | 44.2567 | - | - | 54.0000 | - | - | 9.7433 | - |
| 5470.0000 | - | 55.9972 | - | - | 68.2000 | - | - | 12.2028 | - | - |
| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5460.0000 | - | - | 43.1472 | - | - | 54.0000 | - | - | 10.8528 | - |
| 5470.0000 | - | 54.4216 | - | - | 68.2000 | - | - | 13.7784 | - | - |

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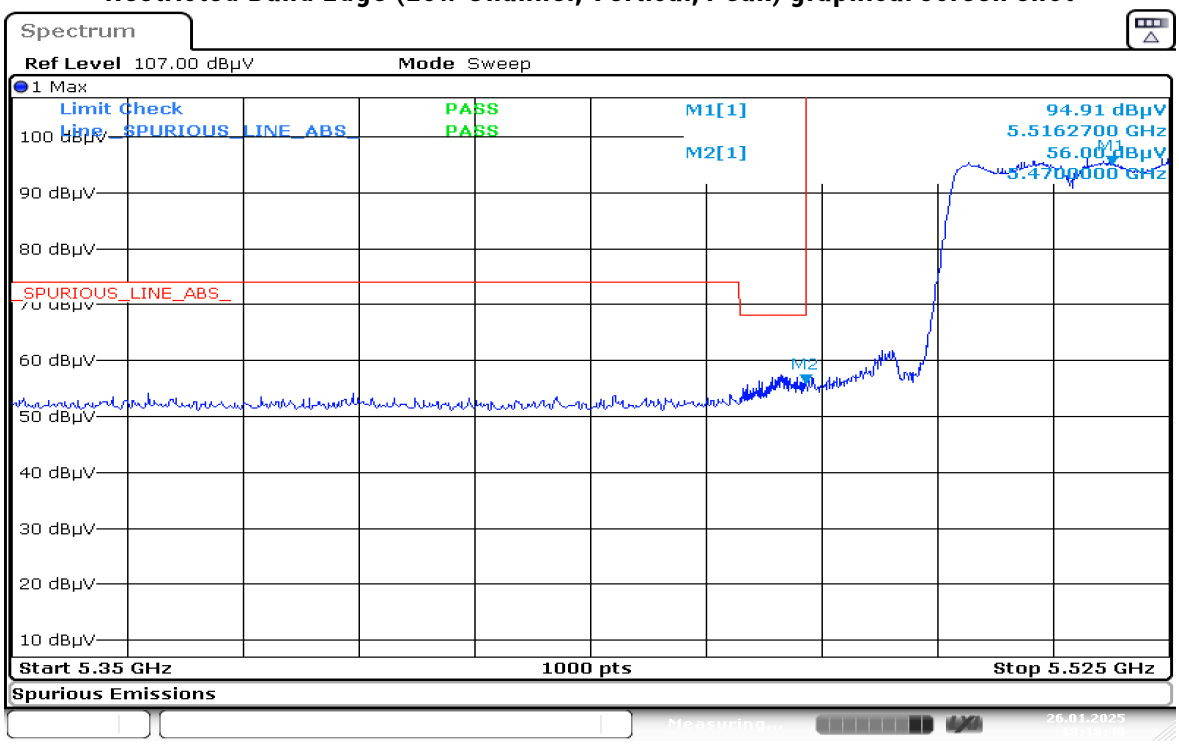
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

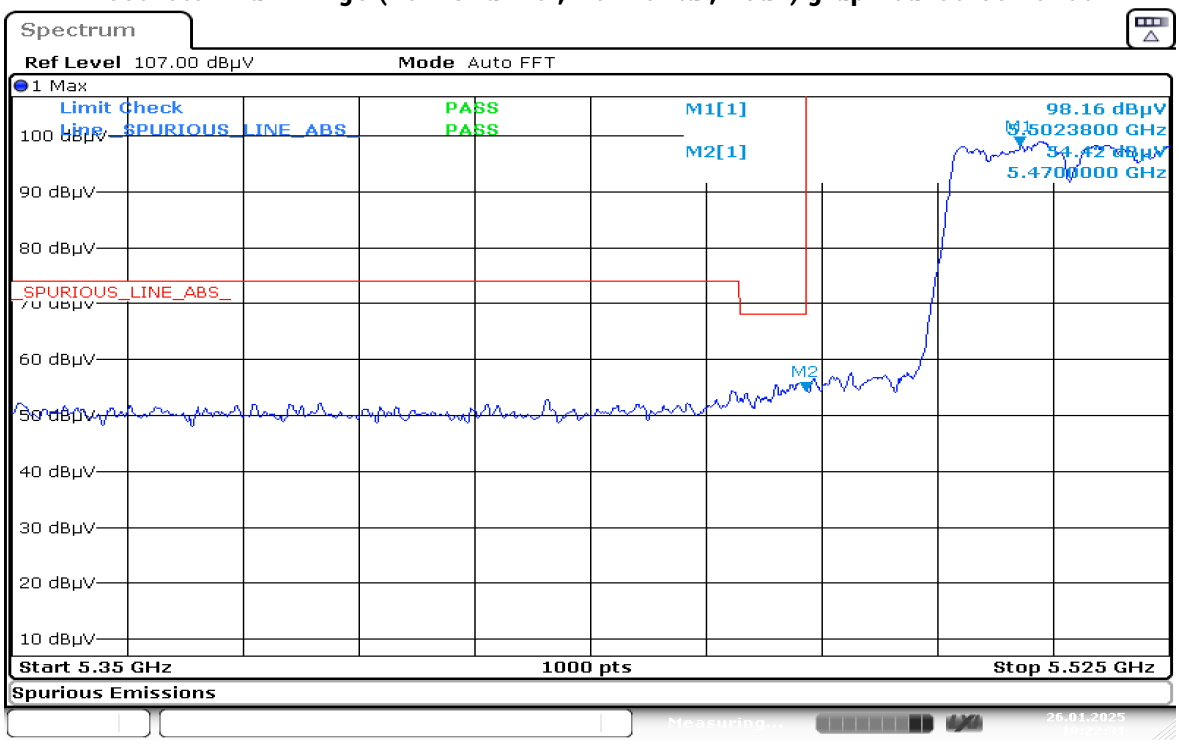
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



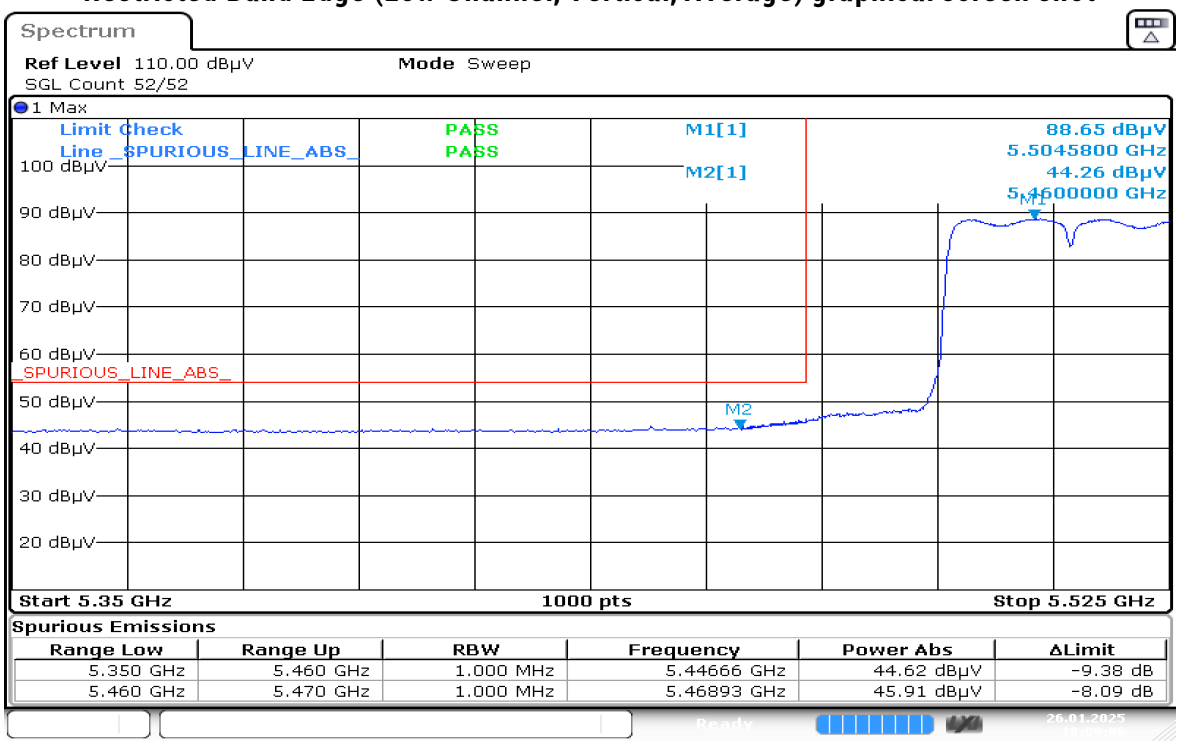

Date: 26.JAN.2025 18:18:41

## Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot




Date: 26.JAN.2025 18:22:31

## Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot

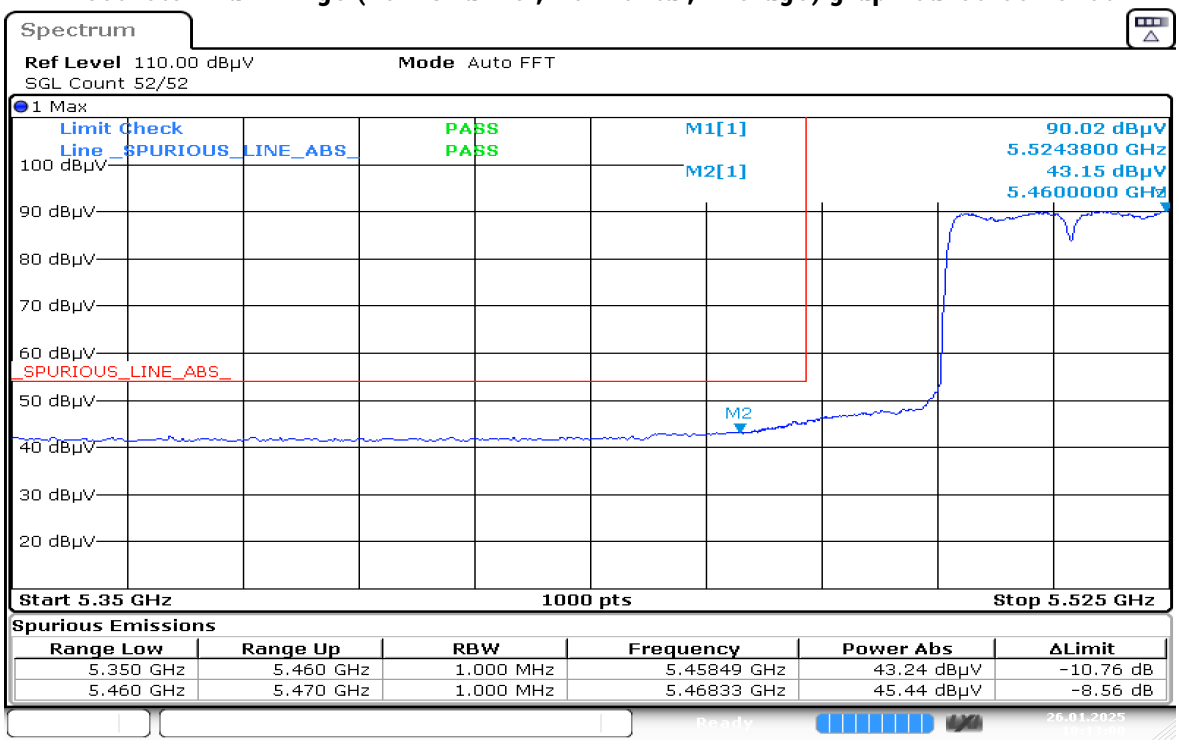



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.350 GHz | 5.460 GHz | 1.000 MHz | 5.44666 GHz | 44.62 dBµV | -9.38 dB |
| 5.460 GHz | 5.470 GHz | 1.000 MHz | 5.46893 GHz | 45.91 dBµV | -8.09 dB |

Date: 26.JAN.2025 18:09:06

## Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 5.350 GHz | 5.460 GHz | 1.000 MHz | 5.45849 GHz | 43.24 dBµV | -10.76 dB |
| 5.460 GHz | 5.470 GHz | 1.000 MHz | 5.46833 GHz | 45.44 dBµV | -8.56 dB |

Date: 26.JAN.2025 18:13:00

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|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: High** | **Test Frequency: 5670.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n40** | **Softpot power (11)** |

## Restricted Band Edge (High Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5725.0000 | - | 52.0657 | - | - | 68.2000 | - | - | 16.1343 | - | - |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5725.0000 | - | 51.2114 | - | - | 68.2000 | - | - | 16.9886 | - | - |
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| Remarks:<br>Pass Result | Marginal Result | Fail Result |

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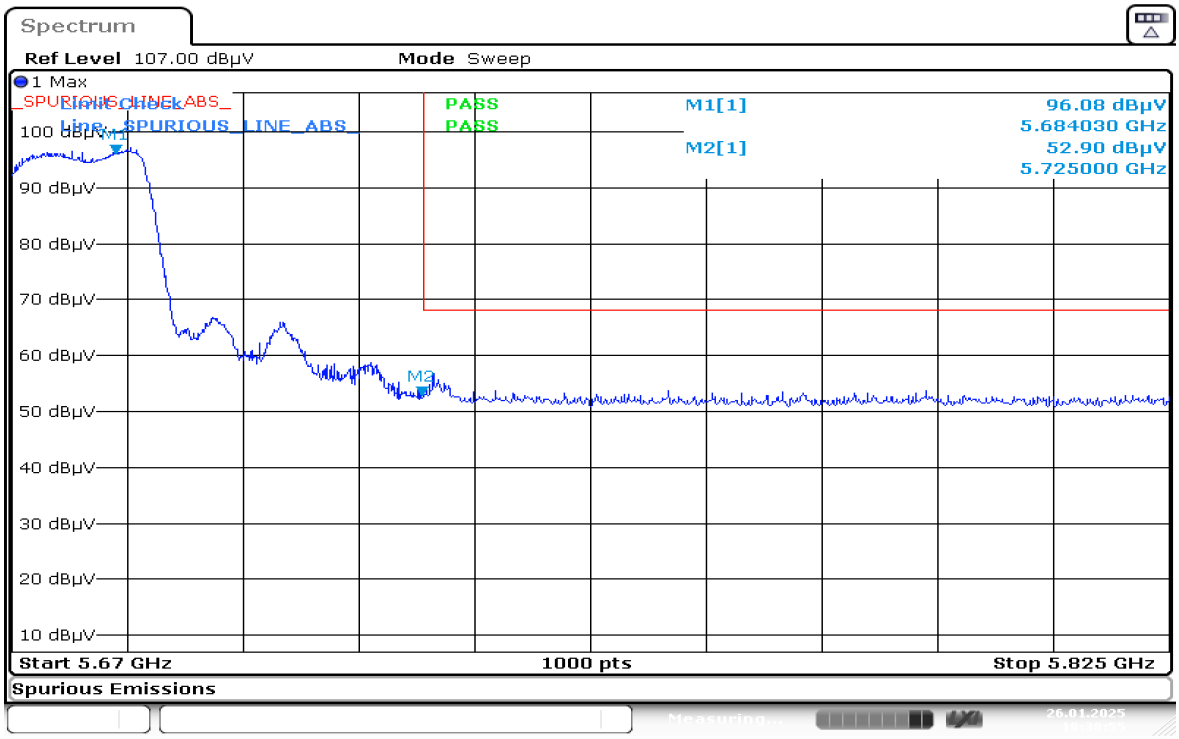
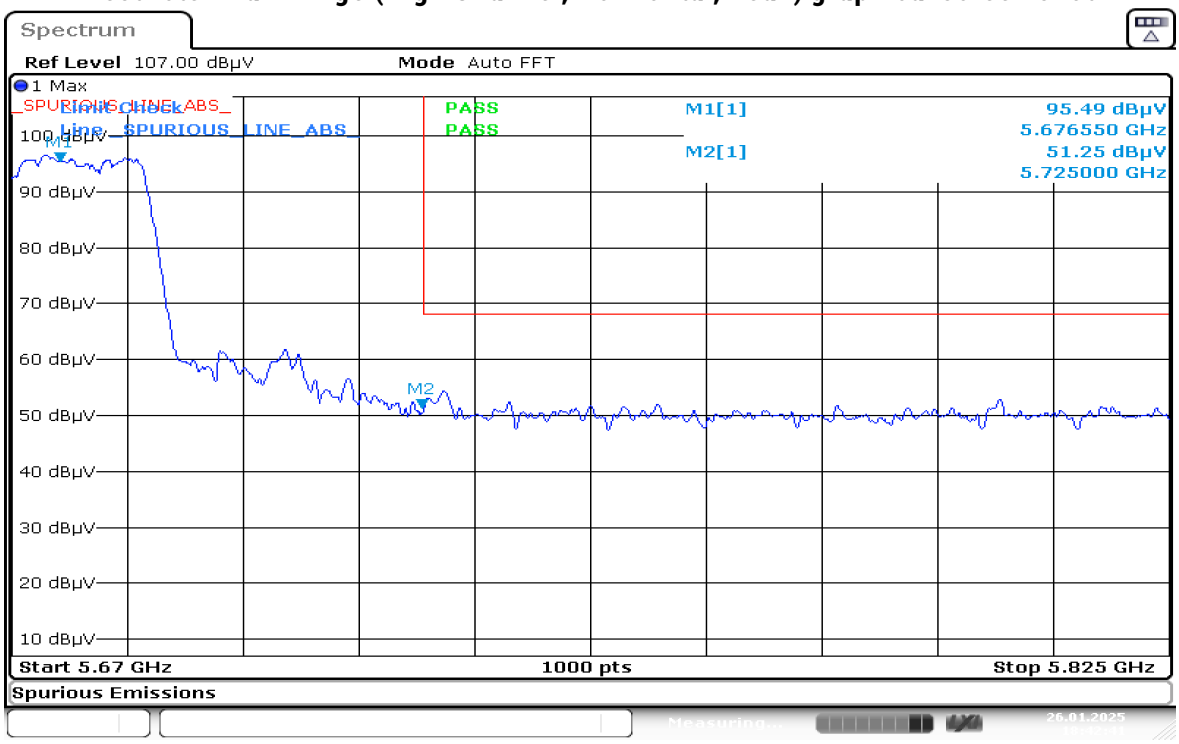
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot




Date: 26.JAN.2025 18:38:56

## Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot




Date: 26.JAN.2025 18:42:42

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: High** | **Test Frequency: 5710.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n40** | **Softpot power (14)** |

## Restricted Band Edge (High Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
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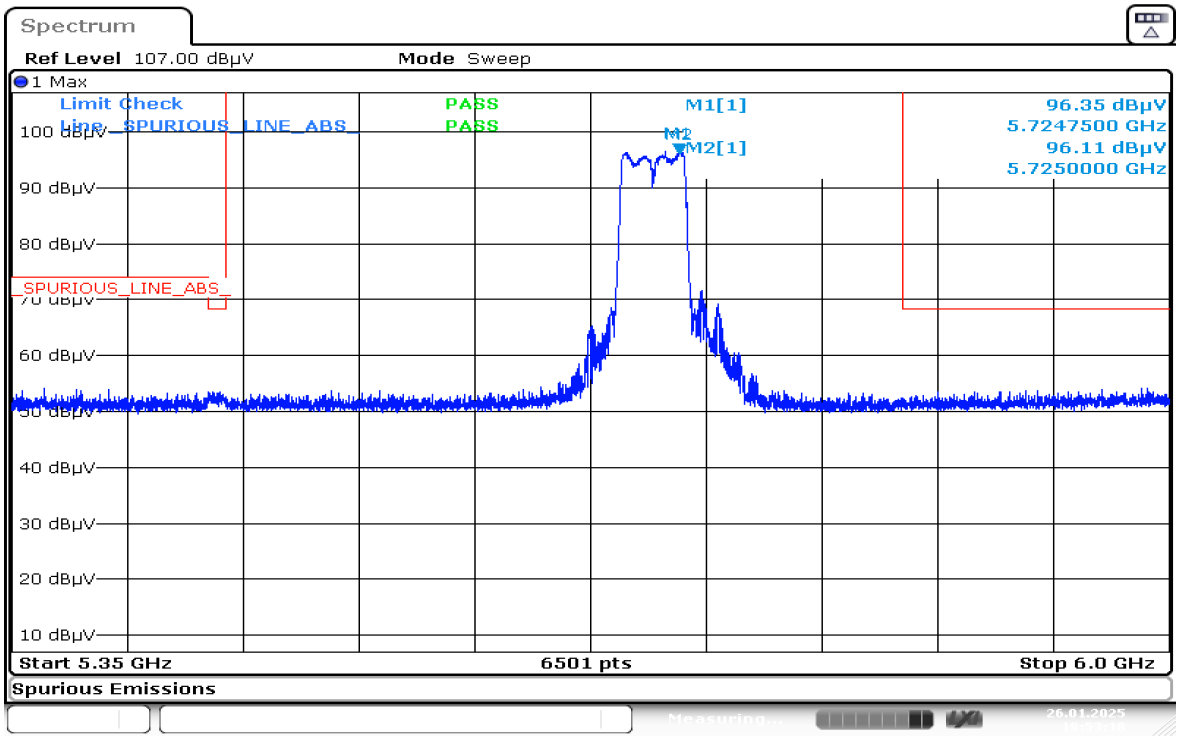
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

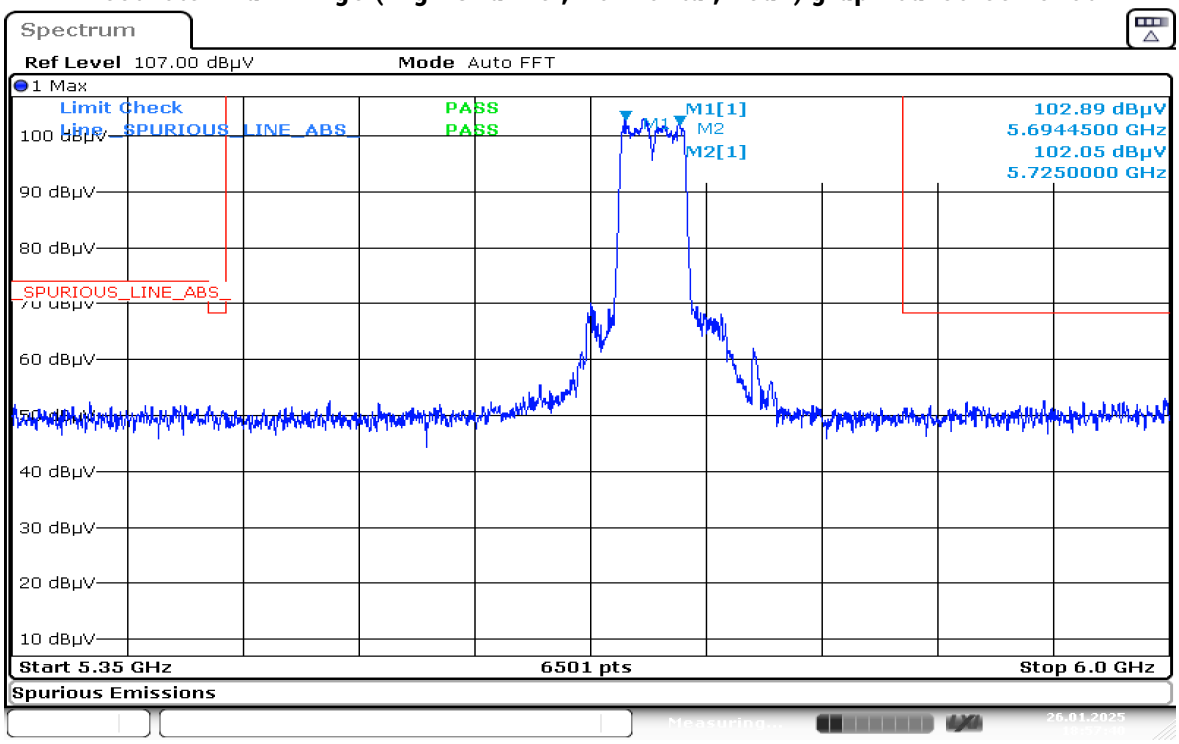
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot




Date: 26.JAN.2025 18:53:18

## Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot




Date: 26.JAN.2025 18:57:40

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: Low** | **Test Frequency: 5755.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n40** | **Softpot power (13)** |

## Restricted Band Edge (Low Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5725.0000 | - | - | 63.3415 | - | - | 122.2000 | - | - | 58.8585 | - |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5725.0000 | - | - | 66.6993 | - | - | 122.2000 | - | - | 55.5007 | - |
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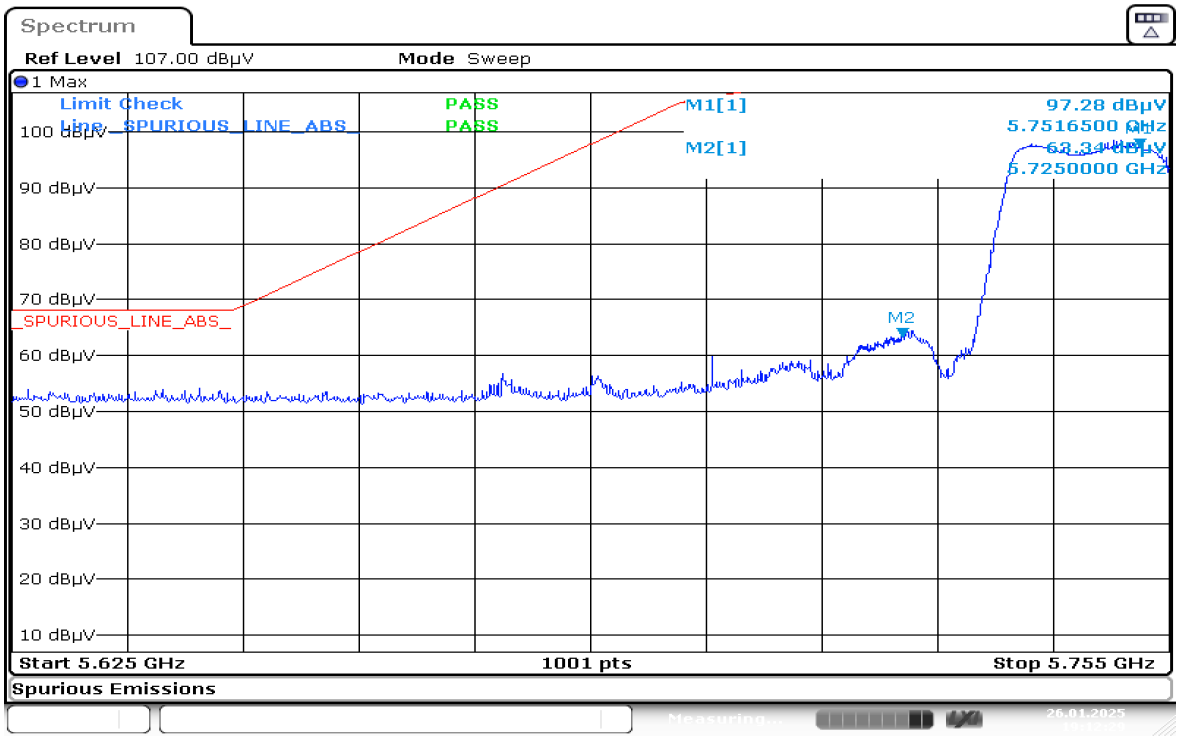
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

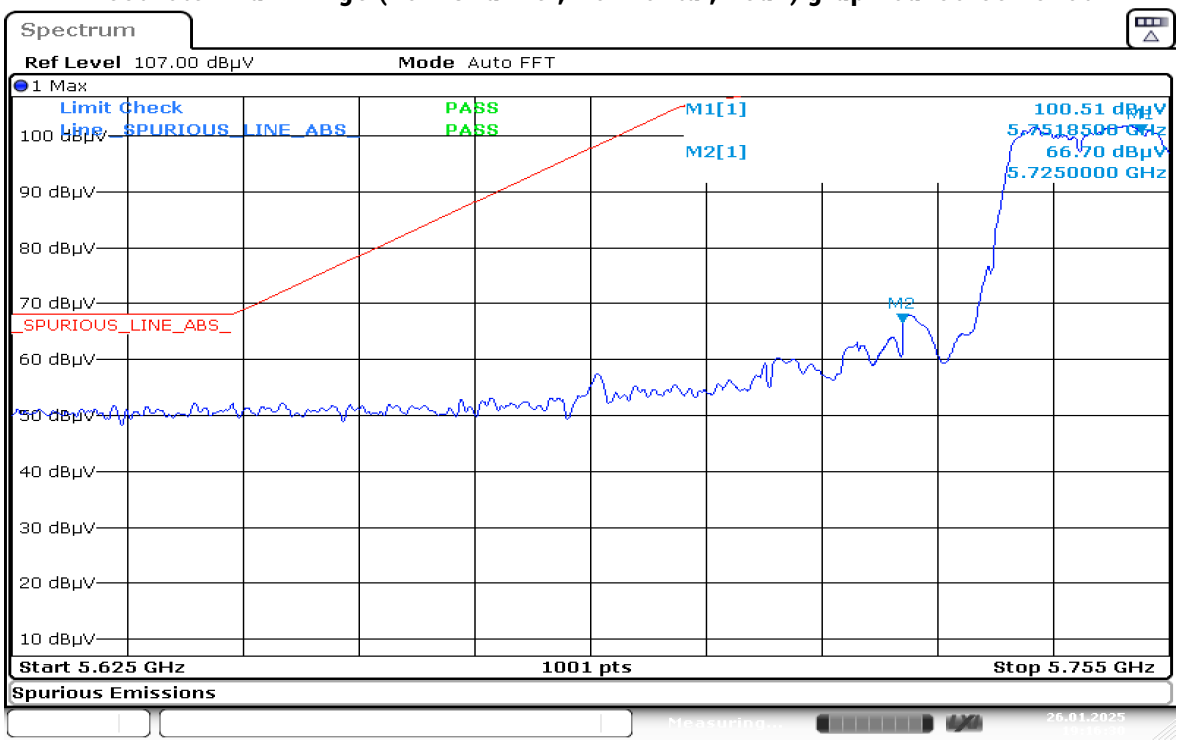
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot




Date: 26.JAN.2025 19:12:29

## Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot




Date: 26.JAN.2025 19:16:31

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: High** | **Test Frequency: 5795.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11n40** | **Softpot power (10)** |

## Restricted Band Edge (High Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5850.0000 | - | - | 52.7059 | - | - | 122.2000 | - | - | 69.4941 | - |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5850.0000 | - | - | 49.6070 | - | - | 122.2000 | - | - | 72.5930 | - |
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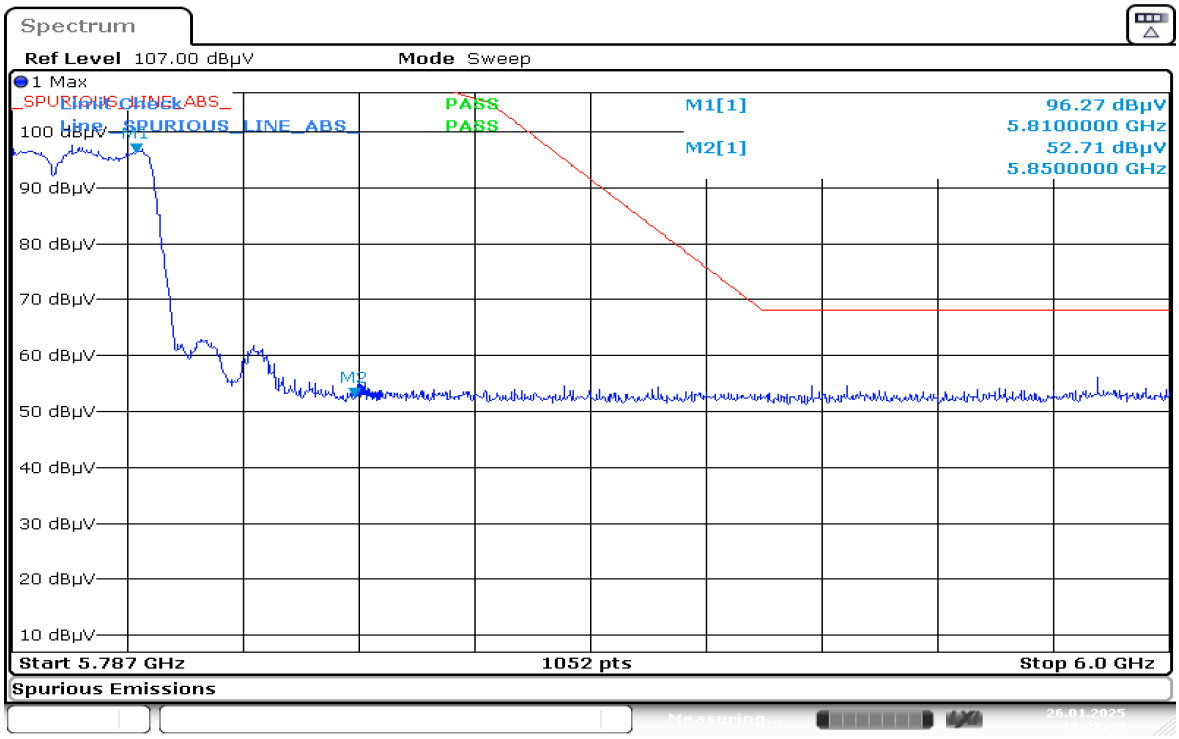
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

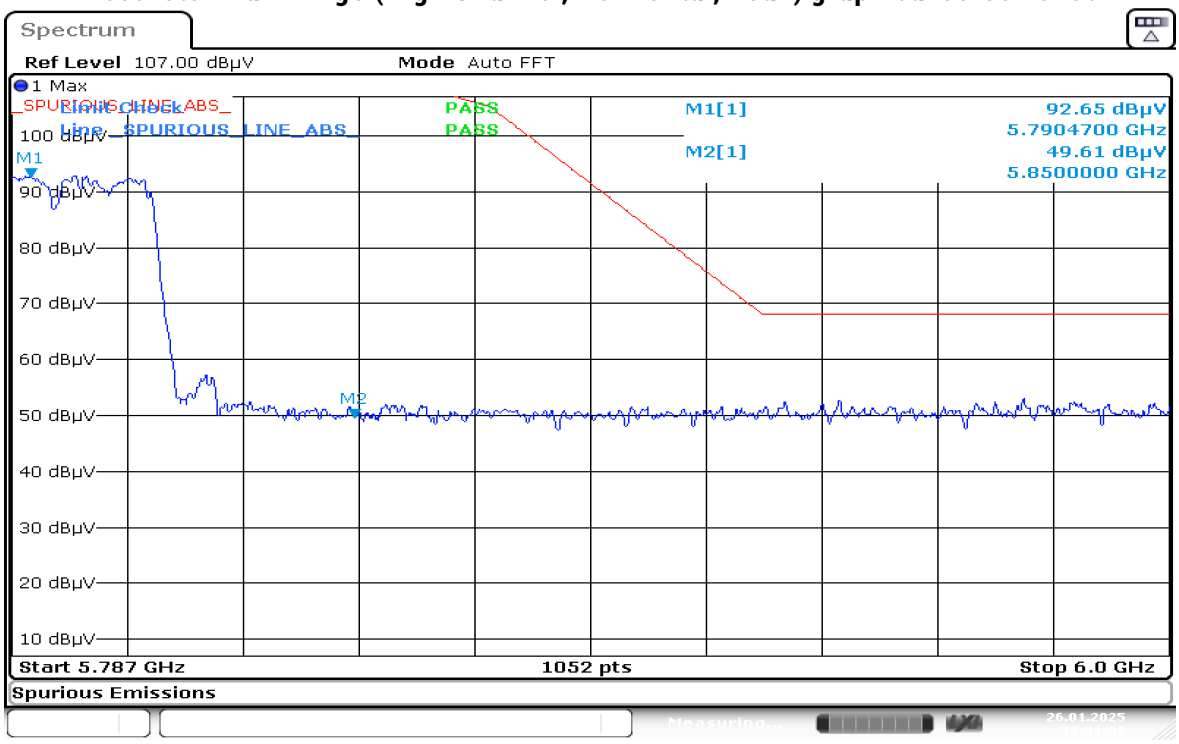
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot




Date: 26.JAN.2025 19:26:39

## Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot




Date: 26.JAN.2025 19:31:07

## 802.11ac (VHT80)

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: Low** | **Test Frequency: 5210.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11ac80** | **Softpot power (10)** |

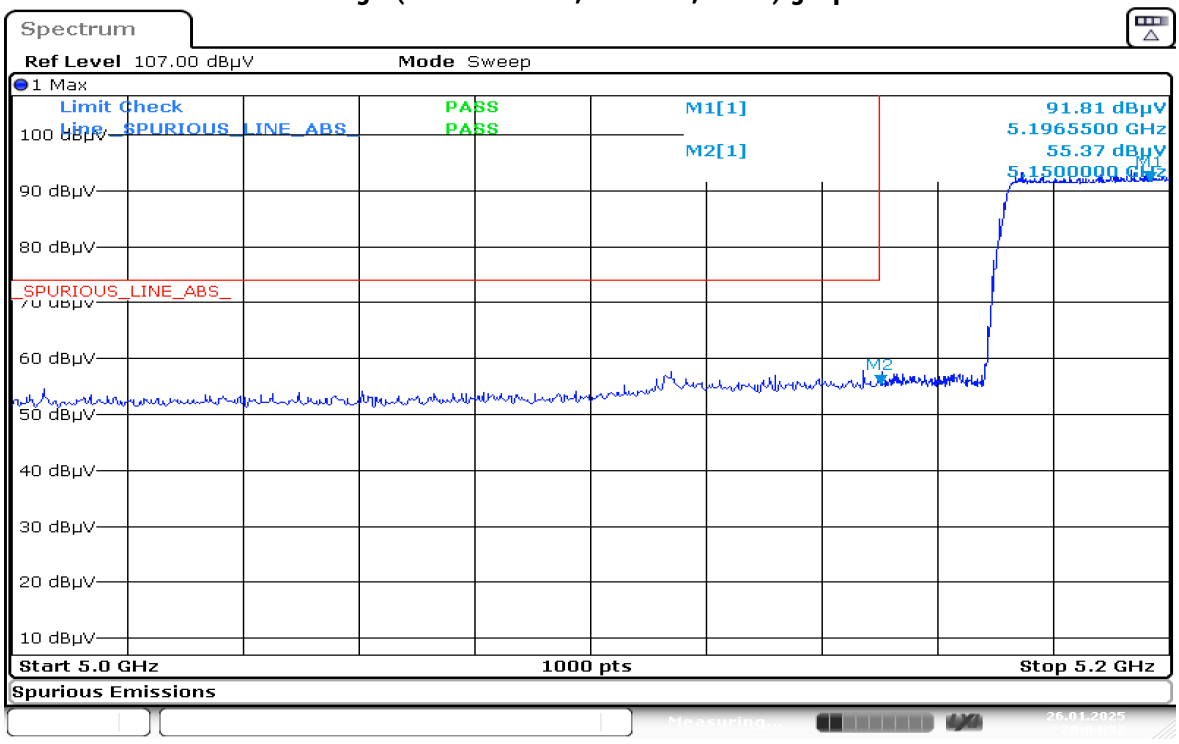
### Restricted Band Edge (Low Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5148.0500 | - | - | 47.8895 | - | - | 54.0000 | - | - | 6.1105 | - |
| 5150.0000 | - | 55.3650 | 47.5273 | - | 74.0000 | 54.0000 | - | 18.6350 | 6.4727 | - |
| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5150.0000 | - | 54.8470 | 46.3066 | - | 74.0000 | 54.0000 | - | 19.1530 | 7.6934 | - |

| | | |
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

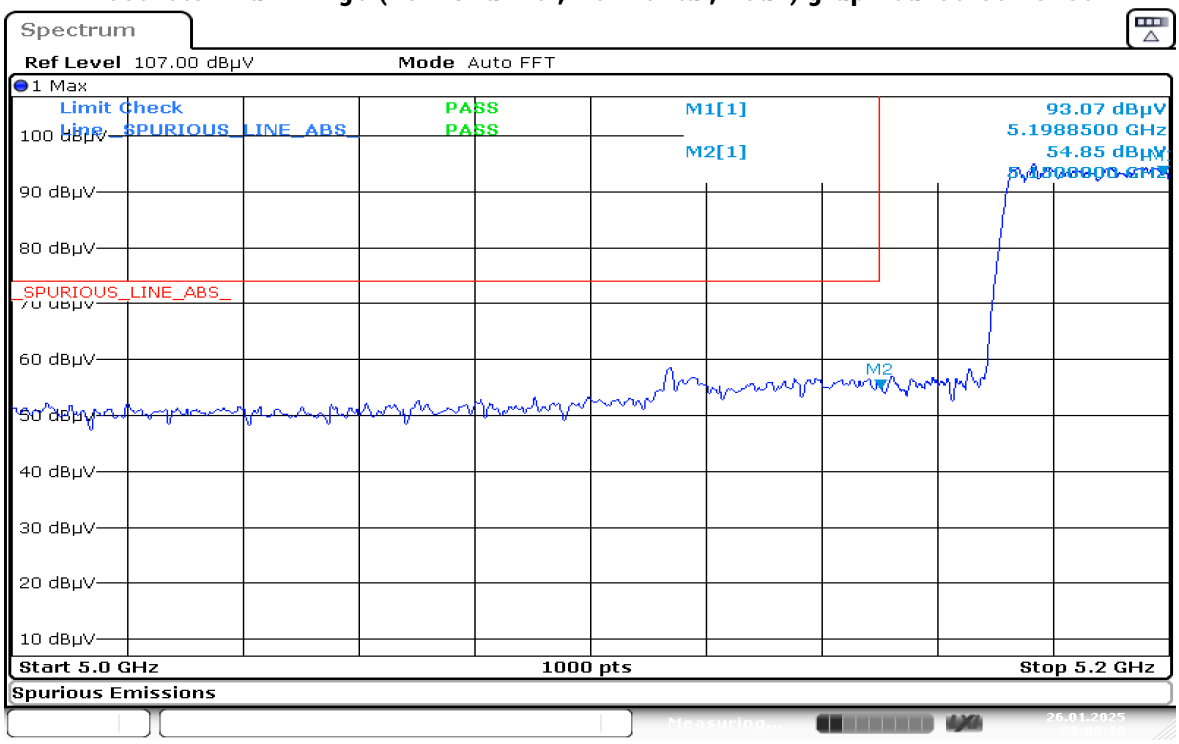
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



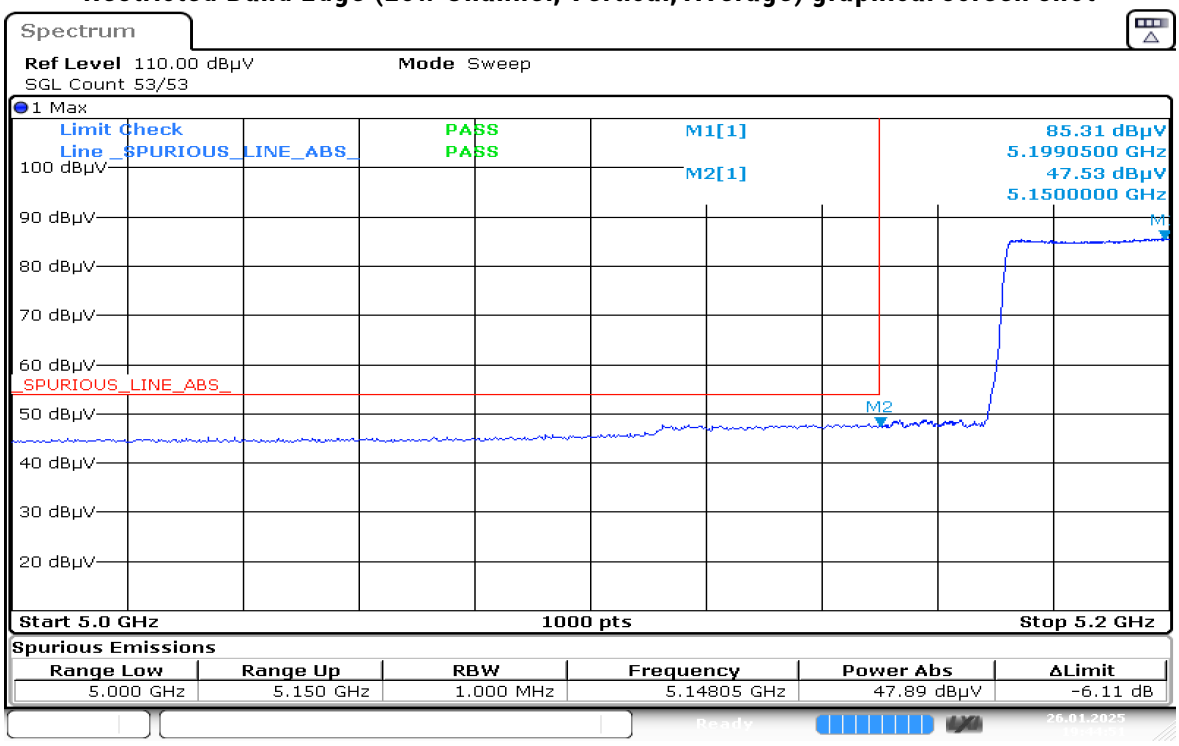

Date: 26.JAN.2025 20:04:33

## Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



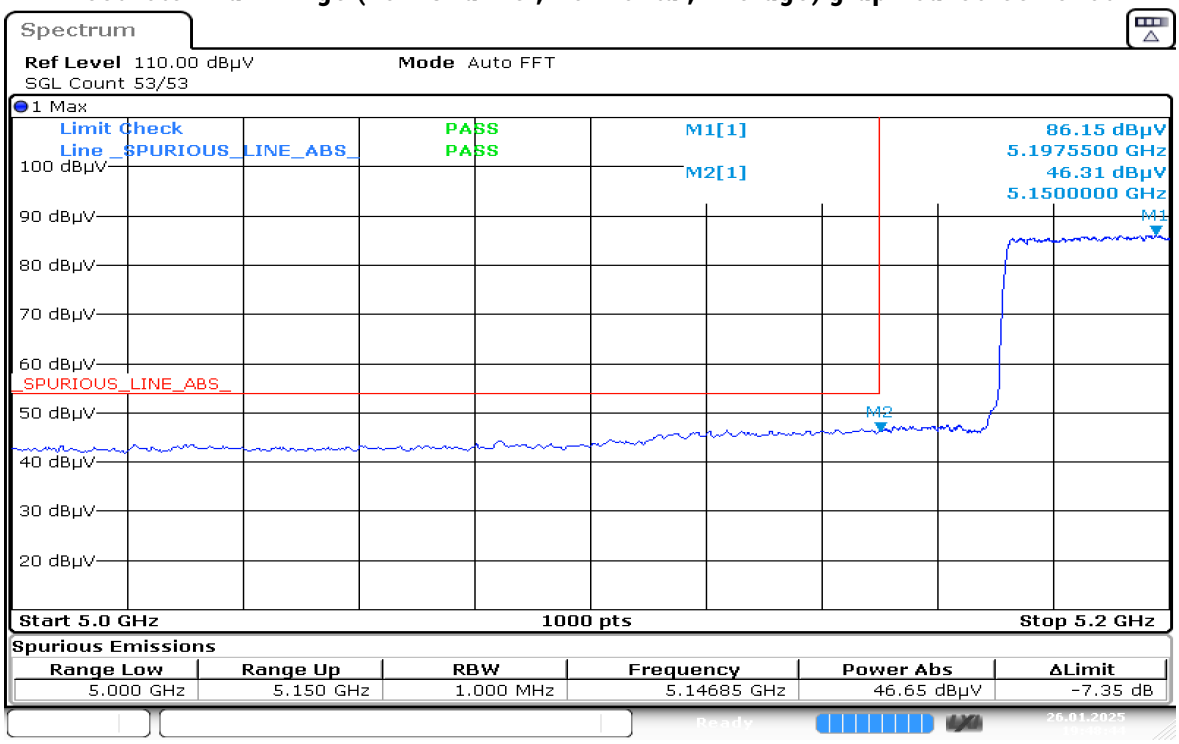

Date: 26.JAN.2025 20:08:18

## Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot




Date: 26.JAN.2025 19:44:51

## Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot




Date: 26.JAN.2025 19:48:44

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: High** | **Test Frequency: 5290.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11ac80** | **Softpot power (9)** |

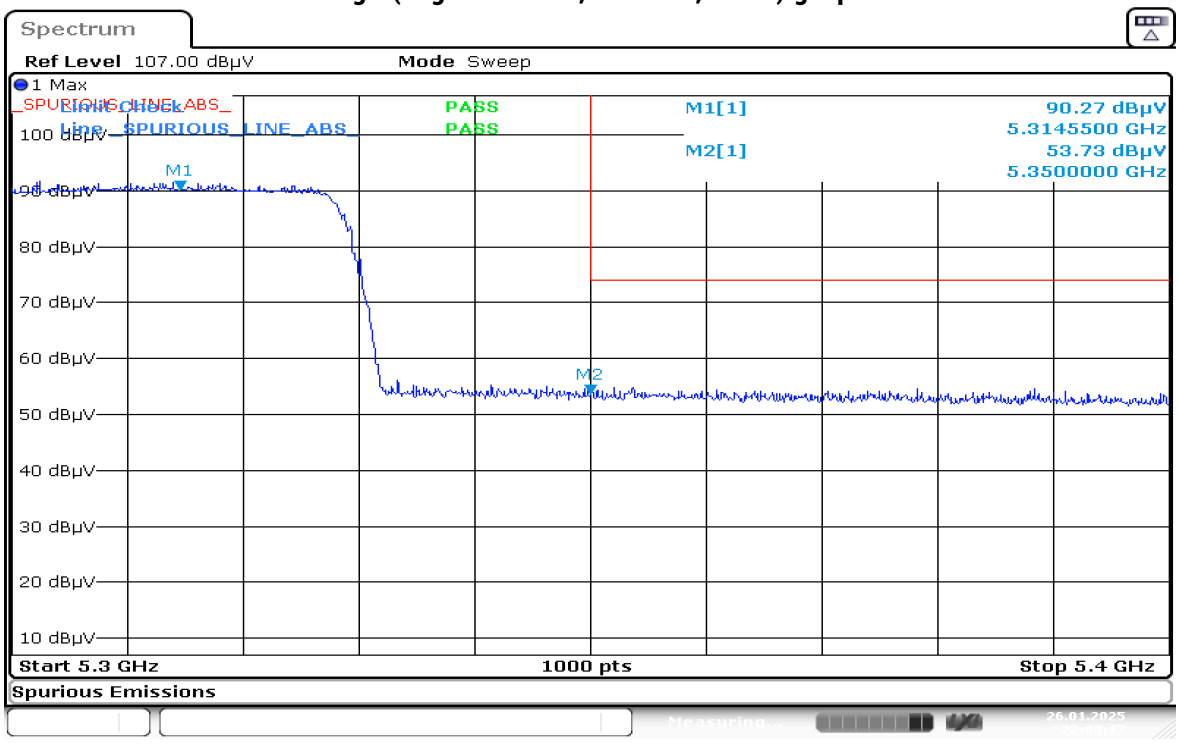
## Restricted Band Edge (High Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5350.0000 | - | 53.7319 | 44.9305 | - | 74.0000 | 54.0000 | - | 20.2681 | 9.0695 | - |
| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5350.0000 | - | 52.2419 | 43.6299 | - | 74.0000 | 54.0000 | - | 21.7581 | 10.3701 | - |

| | | |
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

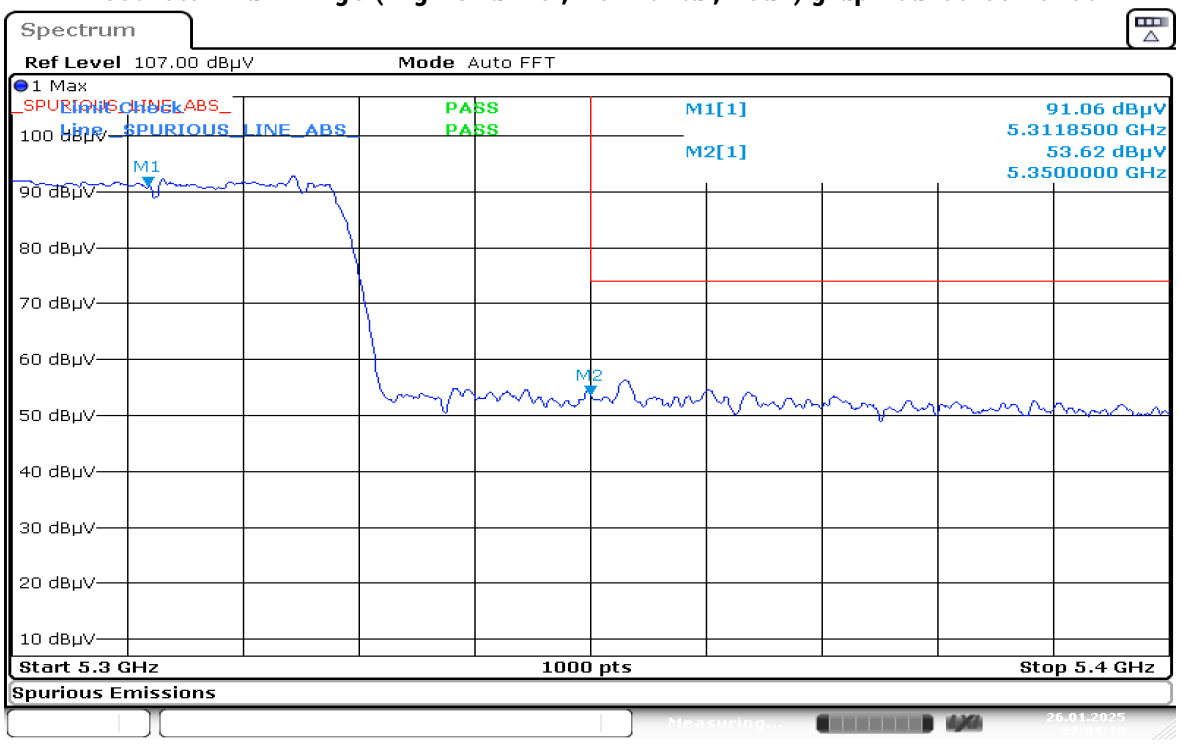
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



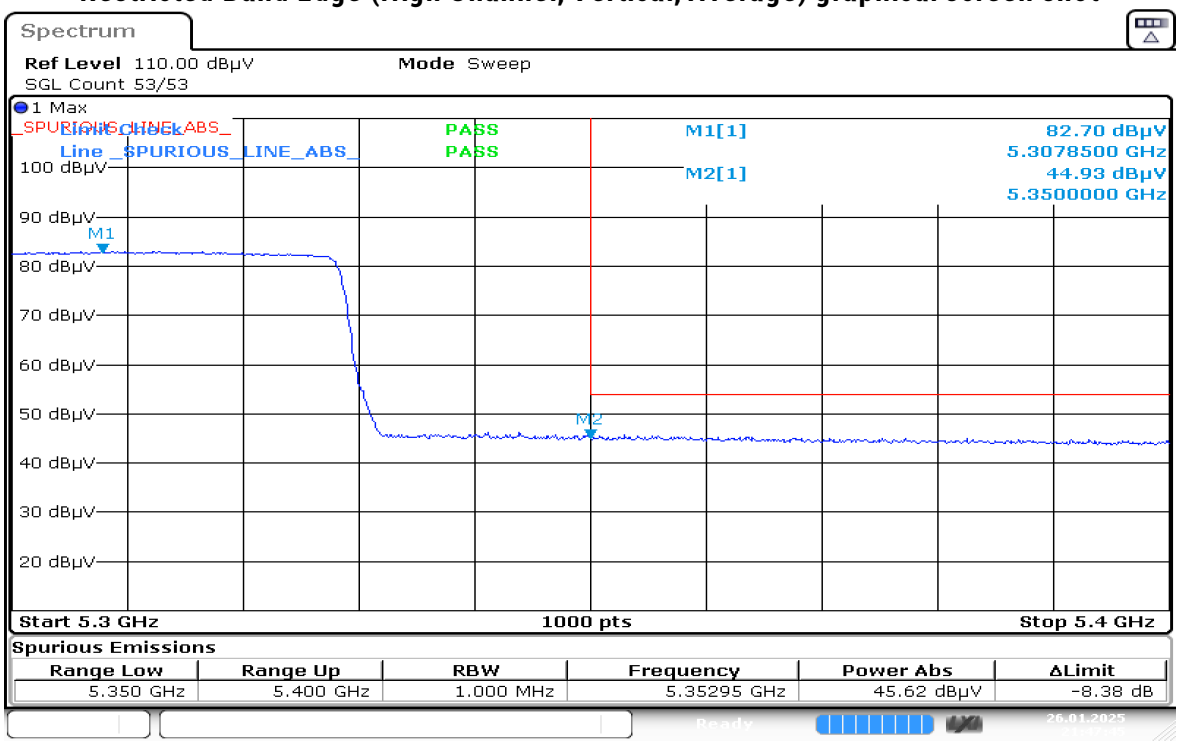

Date: 26.JAN.2025 22:00:18

## Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot



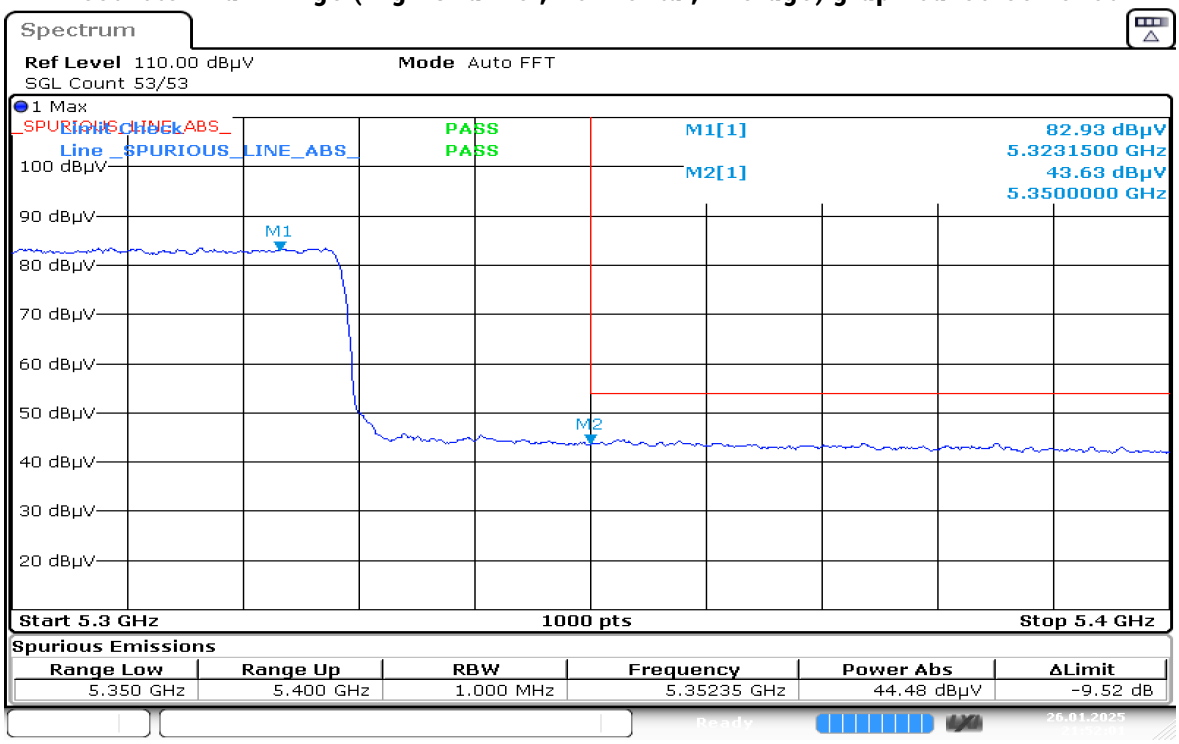

Date: 26.JAN.2025 22:04:19

## Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot




Date: 26.JAN.2025 21:47:45

## Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot




Date: 26.JAN.2025 21:52:02

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: Low** | **Test Frequency: 5530.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11ac80** | **Softpot power (9)** |

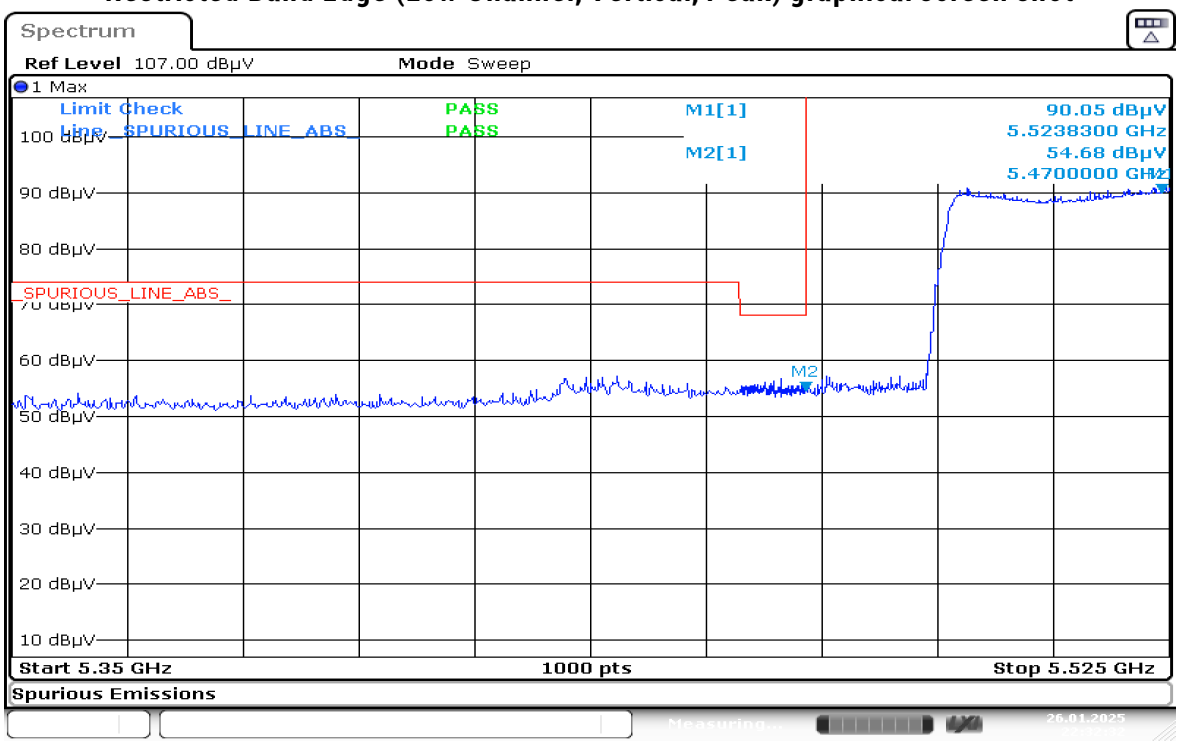
## Restricted Band Edge (Low Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5460.0000 | - | - | 45.8828 | - | - | 54.0000 | - | - | 8.1172 | - |
| 5470.0000 | - | 54.6818 | - | - | 68.2000 | - | - | 13.5182 | - | - |
| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5460.0000 | - | - | 45.2192 | - | - | 54.0000 | - | - | 8.7808 | - |
| 5470.0000 | - | 54.9425 | - | - | 68.2000 | - | - | 13.2575 | - | - |

| | | |
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

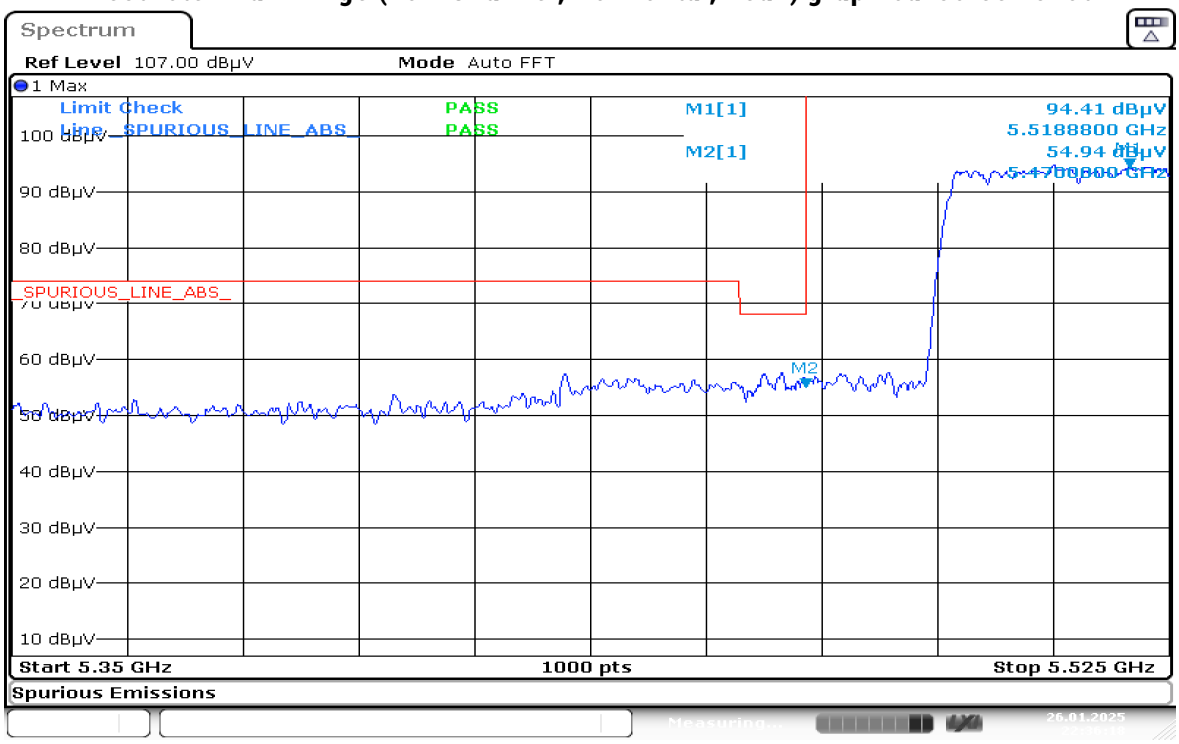
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



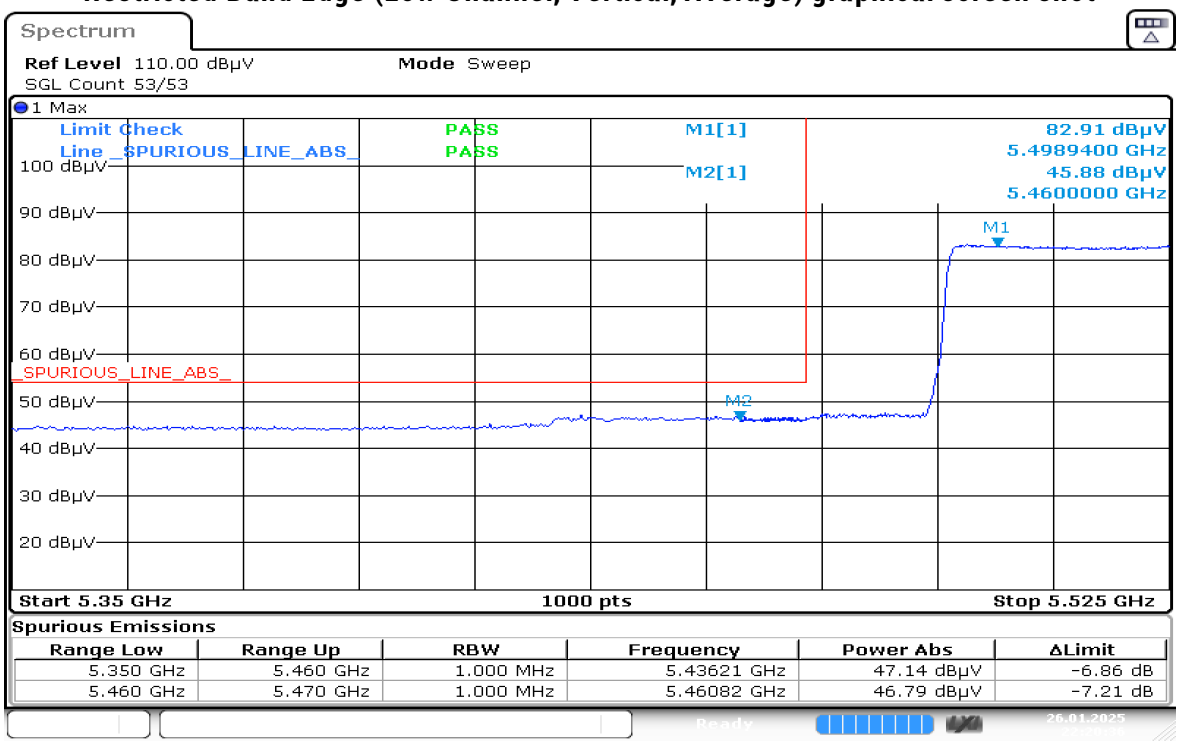

Date: 26.JAN.2025 22:32:32

## Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



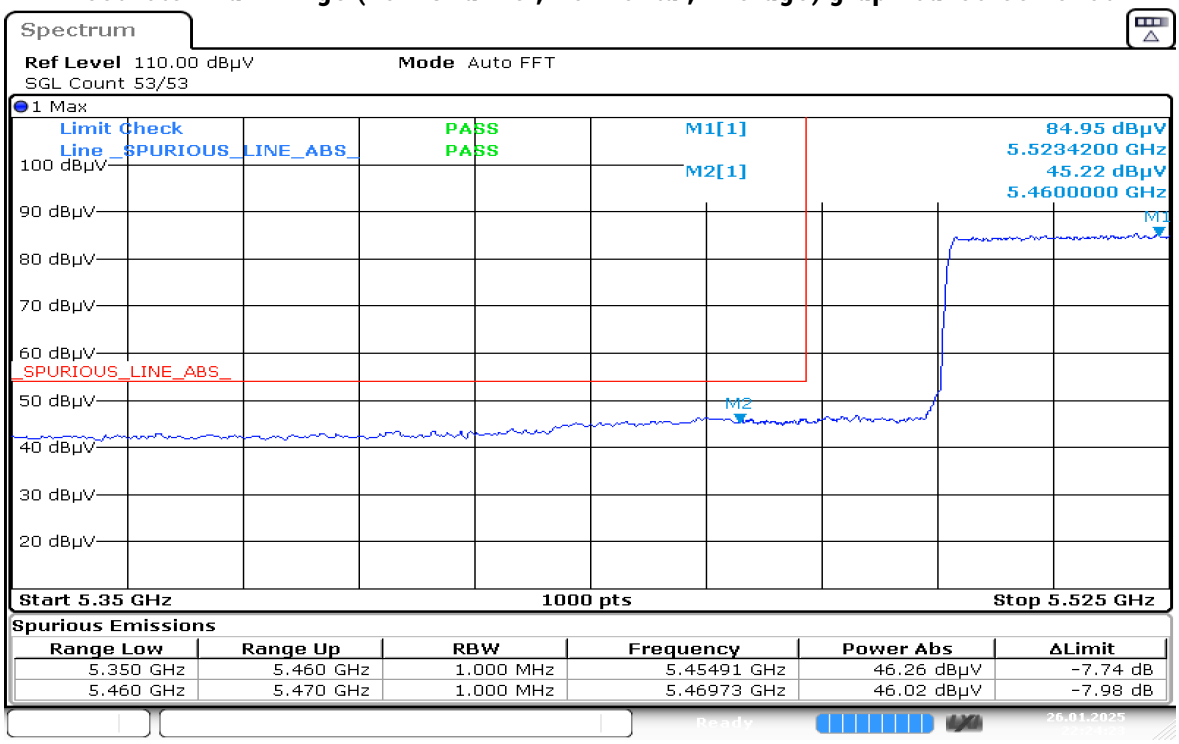

Date: 26.JAN.2025 22:36:18

## Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot




Date: 26.JAN.2025 22:20:36

## Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot




Date: 26.JAN.2025 22:24:23

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|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: High** | **Test Frequency: 5610.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11ac80** | **Softpot power (8)** |

## Restricted Band Edge (High Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5725.0000 | - | 50.9394 | - | - | 68.2000 | - | - | 17.2606 | - | - |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5725.0000 | - | 51.1182 | - | - | 68.2000 | - | - | 17.0818 | - | - |
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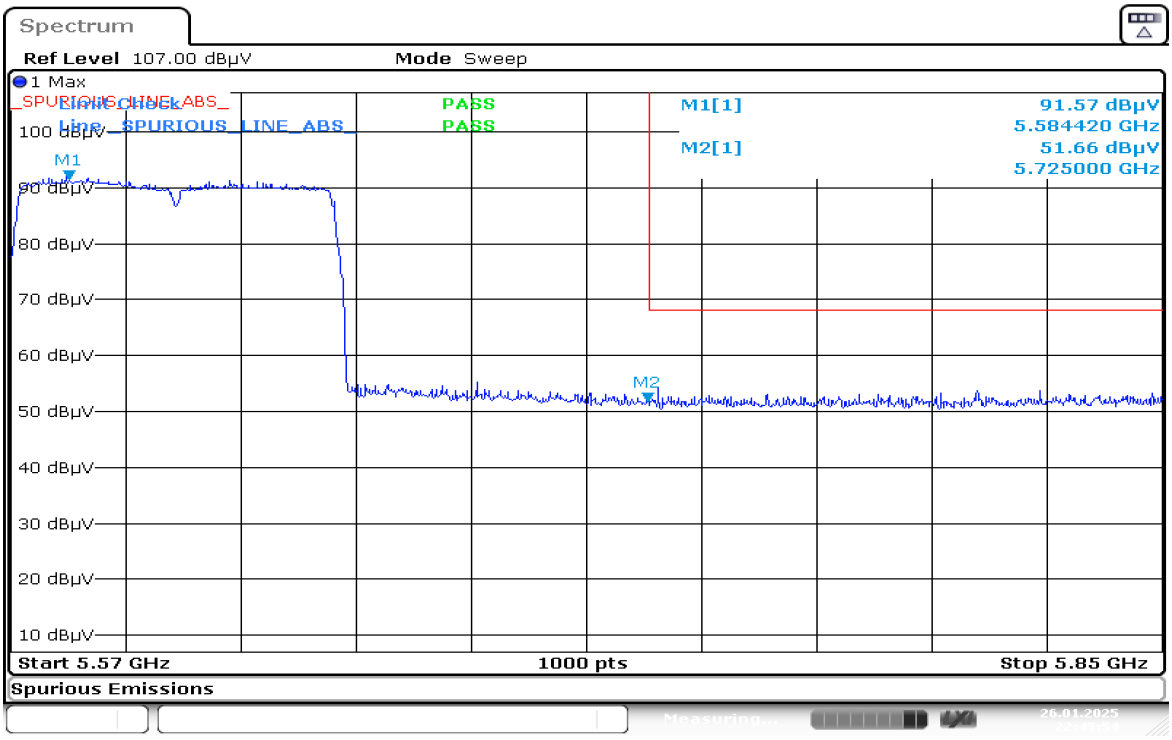
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

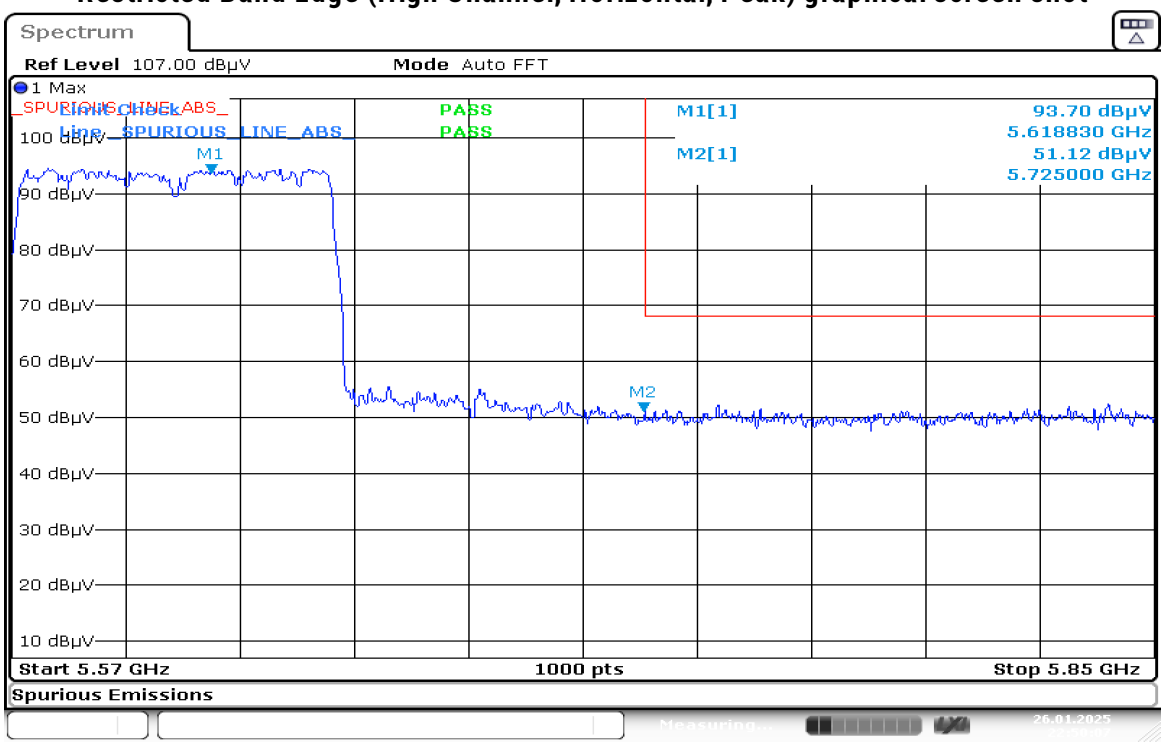
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot




Date: 26.JAN.2025 22:45:54

## Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot




Date: 26.JAN.2025 22:50:08

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: High** | **Test Frequency: 5690.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11ac80** | **Softpot power (10)** |

## Restricted Band Edge (High Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
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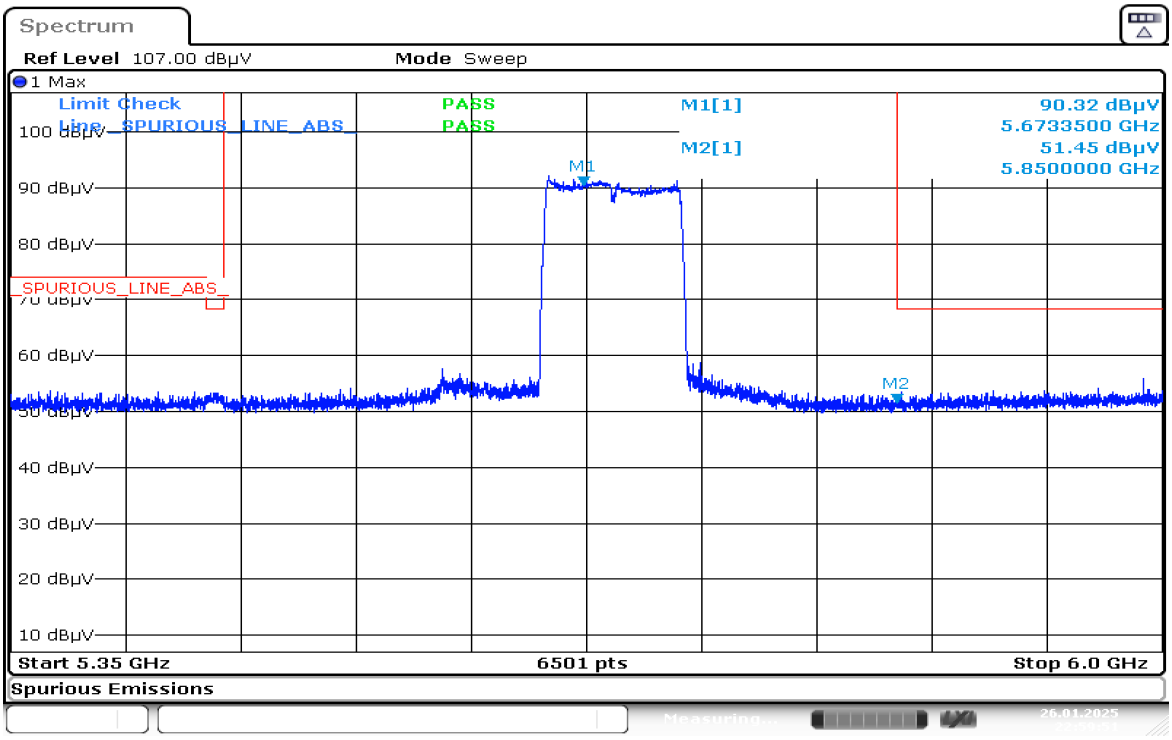
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

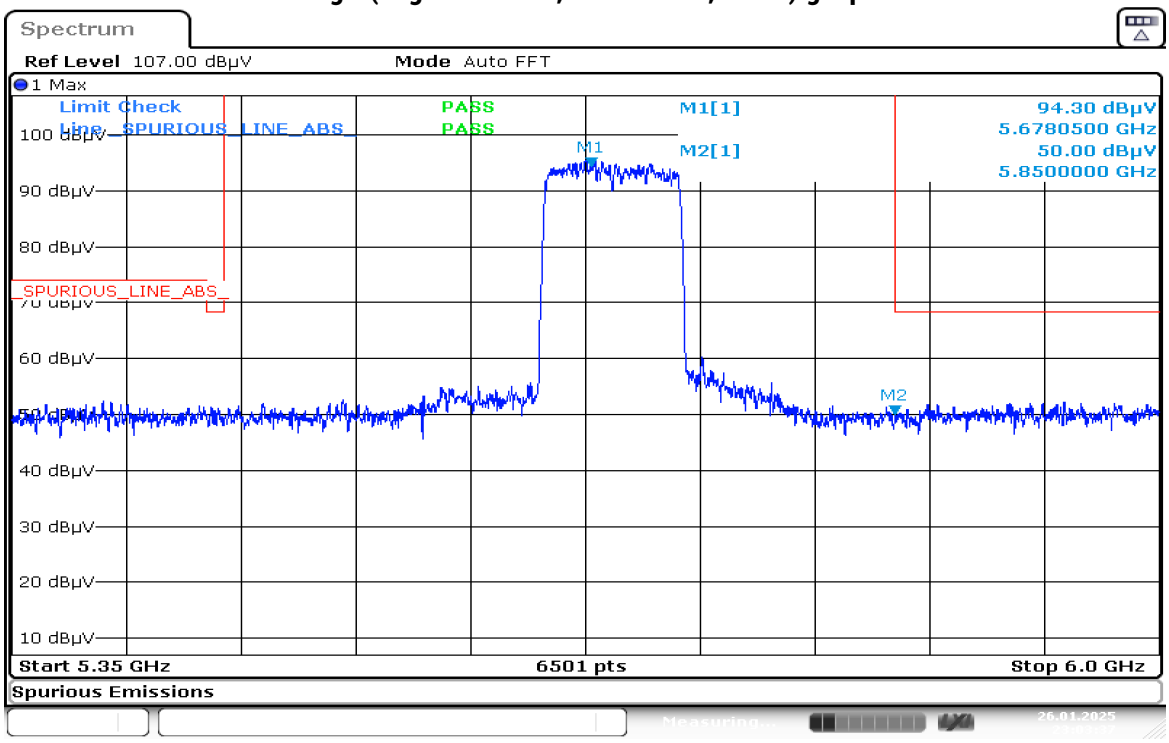
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot




Date: 26.JAN.2025 22:59:52

## Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot




Date: 26.JAN.2025 23:03:37

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: Low** | **Test Frequency: 5775.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11ac80** | **Softpot power (8)** |

## Restricted Band Edge (Low Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5725.0000 | - | - | 54.6841 | - | - | 122.2000 | - | - | 67.5159 | - |
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| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5725.0000 | - | - | 54.7240 | - | - | 122.2000 | - | - | 67.4760 | - |
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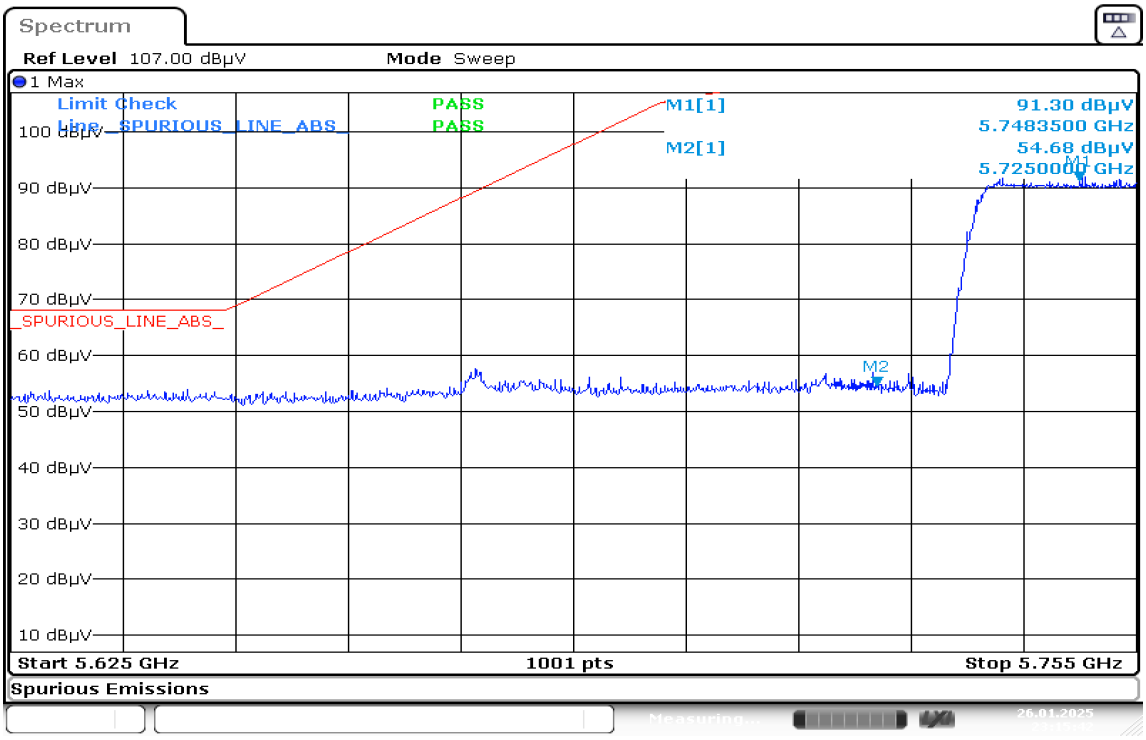
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

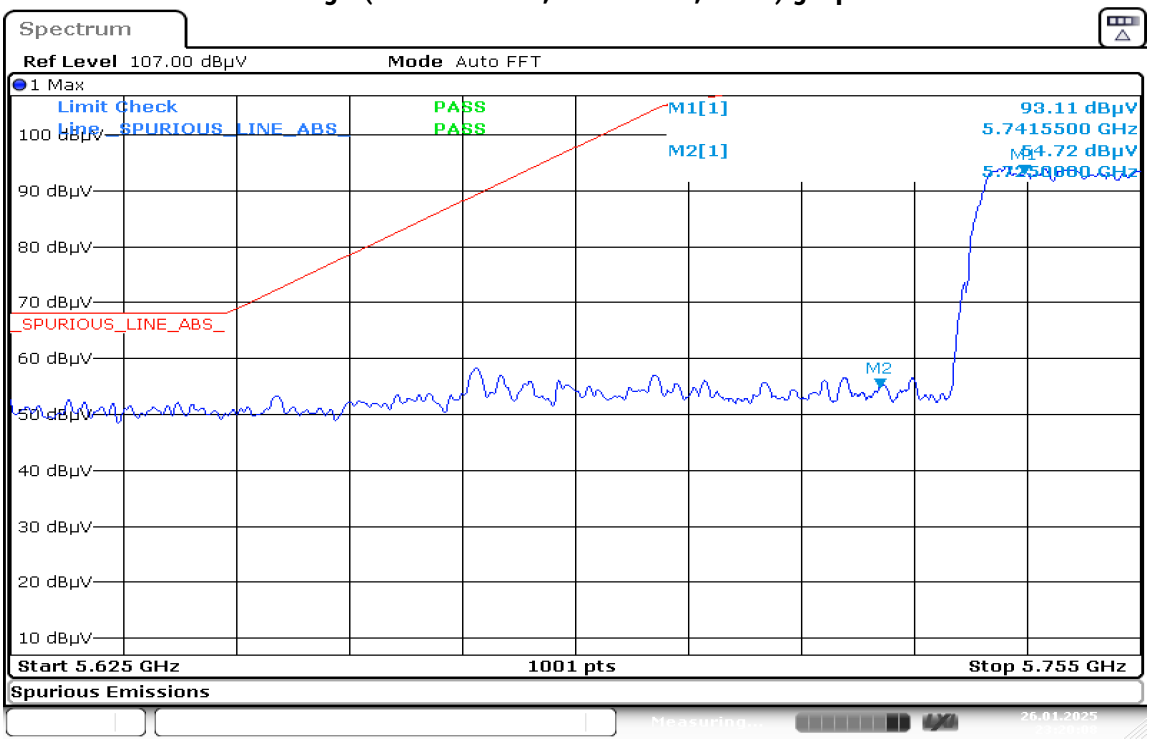
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot




Date: 26.JAN.2025 23:15:42

## Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot




Date: 26.JAN.2025 23:20:09

| | |
|---|---|
| **Test: WIFI SAC Restricted Band Edge** | **EMC SR ID#: 1057N00-EMC-00027** |
| **Model Number: VX650** | **S/N: 9903EBA0048** |
| **Battery: PMNN4893A** | |
| **Accessory: NA** | |
| **Test Channel: High** | **Test Frequency: 5775.0000 MHz** |
| **Test Standard: ANSI C63.10-2013** | **Worst Case Plane: Z-Plane** |
| **Modulation: 802.11ac80** | **Softpot power (8)** |

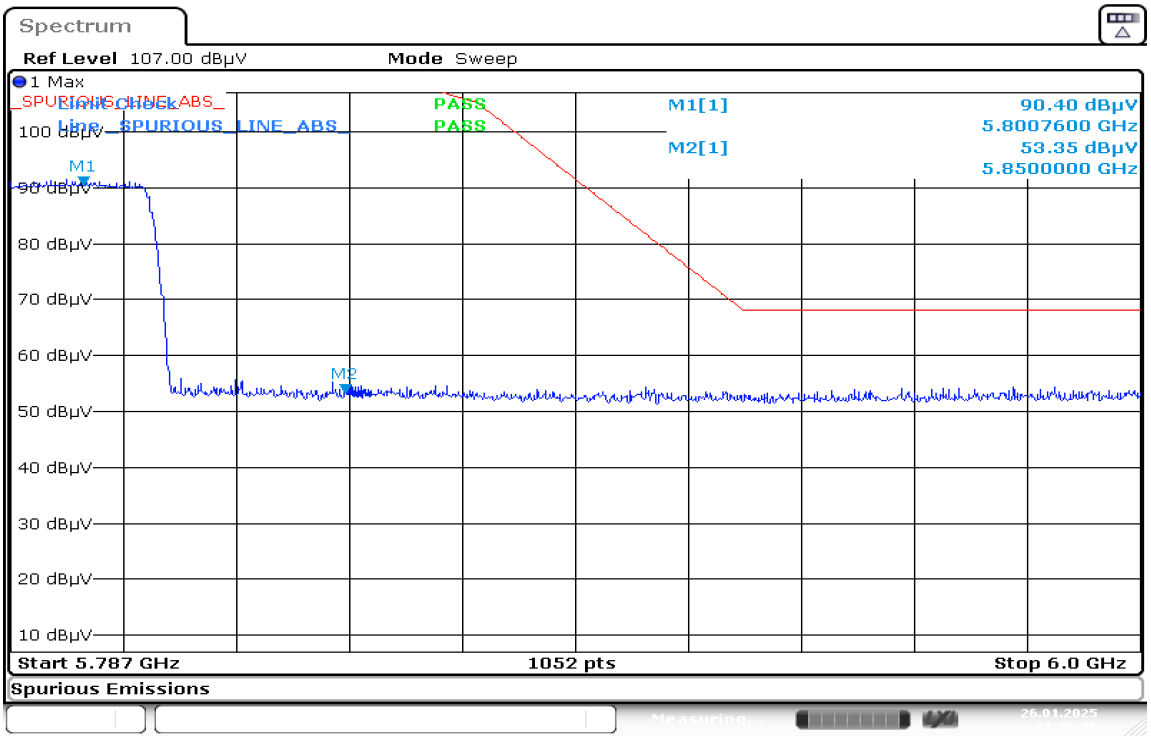
## Restricted Band Edge (High Channel) tabular data

| Vertical Radiated Emission Result | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spur Freq (MHz) | Spur level QPK (dBµV/m) | Spur level PK (dBµV/m) | Spur level AV (dBµV/m) | Limit QPK (dBµV/m) | Limit PK (dBµV/m) | Limit AV (dBµV/m) | Margin QPK (dBµV/m) | Margin PK (dBµV/m) | Margin AV (dBµV/m) | Carrier PK Power (dBµV/m) |
| 5850.0000 | - | - | 53.3527 | - | - | 122.2000 | - | - | 68.8473 | - |
| **Horizontal Radiated Emission Result** | | | | | | | | | | |
| 5850.0000 | - | - | 52.7521 | - | - | 122.2000 | - | - | 69.4479 | - |

| | | |
|---|---|---|
| Remarks:<br>Pass Result | Marginal Result | Fail Result |

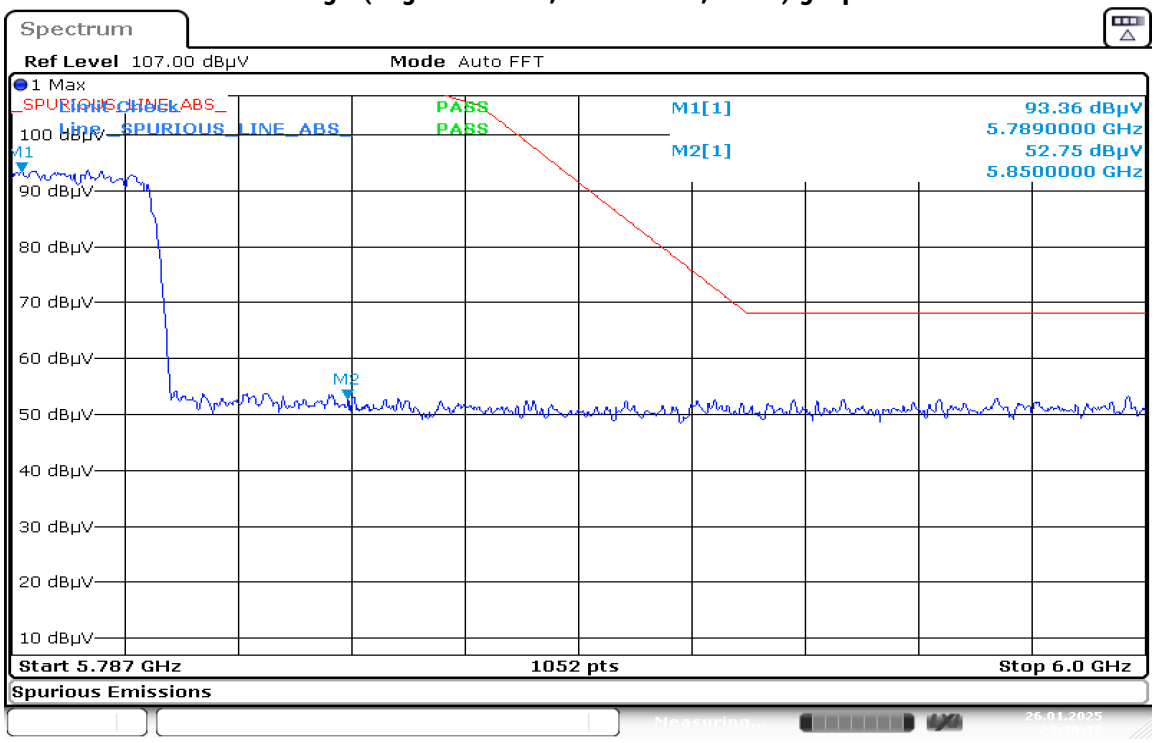
| | |
|---|---|
| **Temperature (degC): 22.5** | **Humidity (%): 63.1** |
| **Test Performed by: Aiman** | **Test Date: Mon, 27 Jan, 2025** |
| **System MU: 5.84dB** | |

## Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot




Date: 26.JAN.2025 23:25:37

## Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot

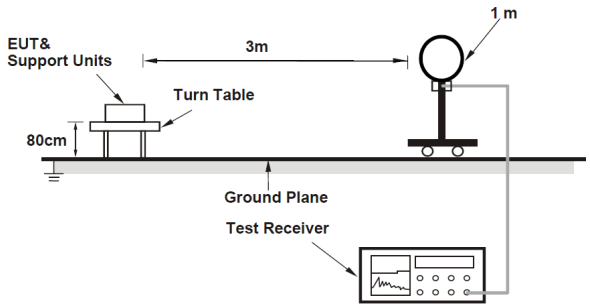



Date: 26.JAN.2025 23:30:12

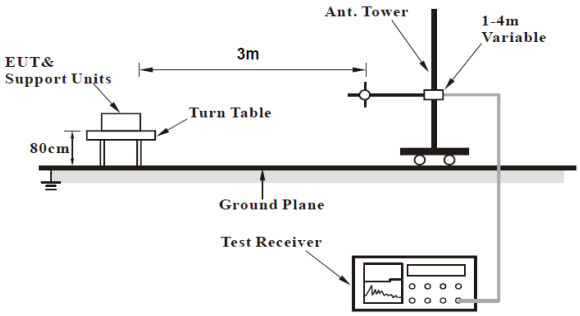
## 6.7. Radiated Spurious Emission Measurement

### 6.7.1. Test Setup

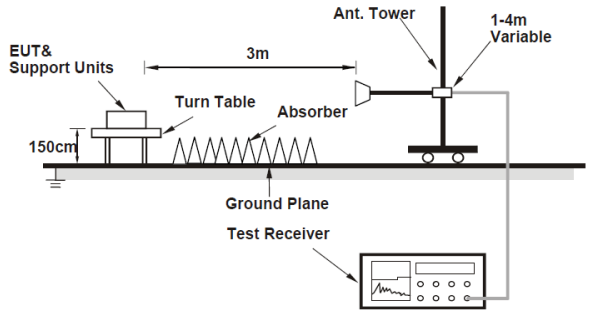
<Radiated emission below 30MHz>




<Frequency Range below 1GHz>




<Frequency Range above 1GHz>




1. The EUT is placed on the top of a rotating table 0.8m/1.5m above the ground at a 3m semi-anechoic chamber. The table is rotated 360 degrees to determine the position of the highest radiation.
2. The EUT is set 3m away from the interference-receiving antenna, which is mounted on the top of a variable-height antenna tower.
3. The antenna is Bilog/Horn antenna depend on which frequency range uses, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT is arranged to its worst case and then the antenna is tuned to heights from 1m to 4m and the rotatable table is turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system is set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode is fall within the range of 10dB from the limit specified, the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Otherwise, the testing could be stopped and the peak values of the EUT would be reported.