

## Conducted test results

No.1-7077/23-01-05\_TR1-A208-R1

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January 22, 2024

Test Standard(s)                      FCC 15.407

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Radio Labs

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## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-1

### References

|                                   |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| TC start                          | 19.01.2024 11:26:02                                               |
| Ambit temp [°C]   humidity [rel%] | 22.1   29                                                         |
| System version                    | 4.7.1.5                                                           |
| Standard   Version                | FCC 15.407   NI                                                   |
| Method                            | KDB789033 D02, F., E.2.e.                                         |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-1 |
| Information                       |                                                                   |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5210                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5210 MHz

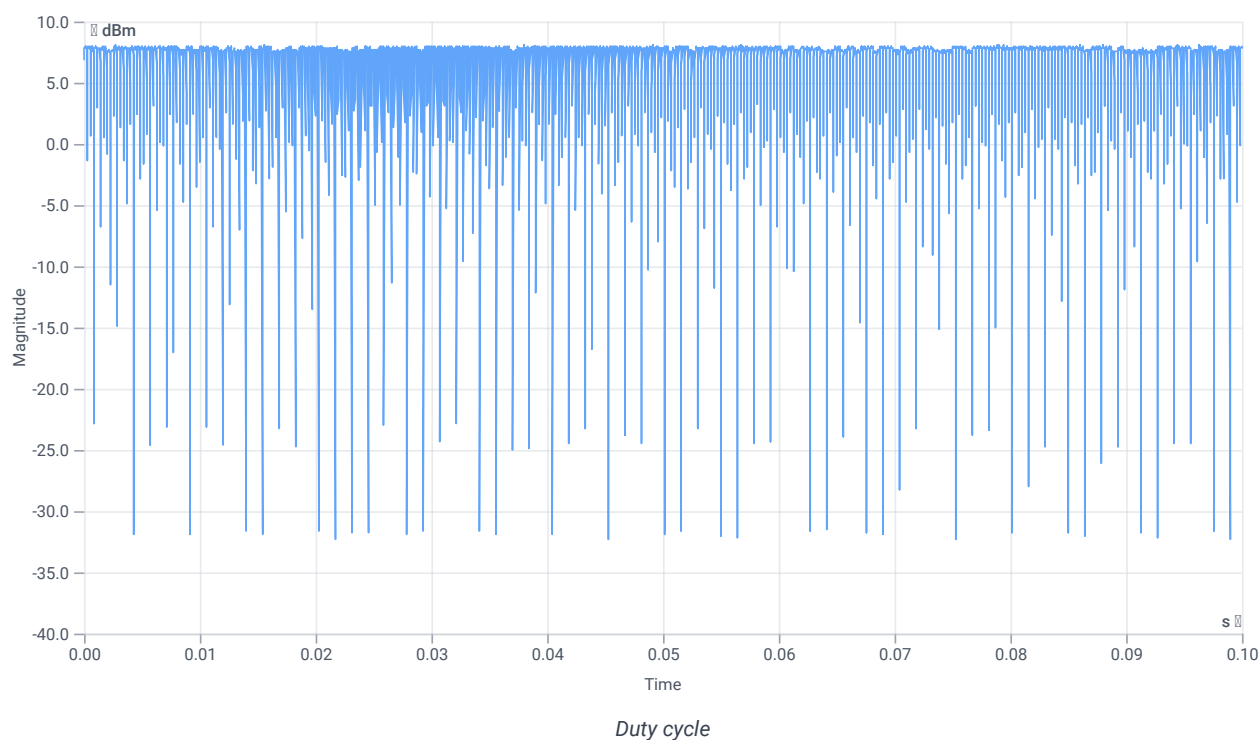
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.45     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5205.000 | MHz  | INFO    |

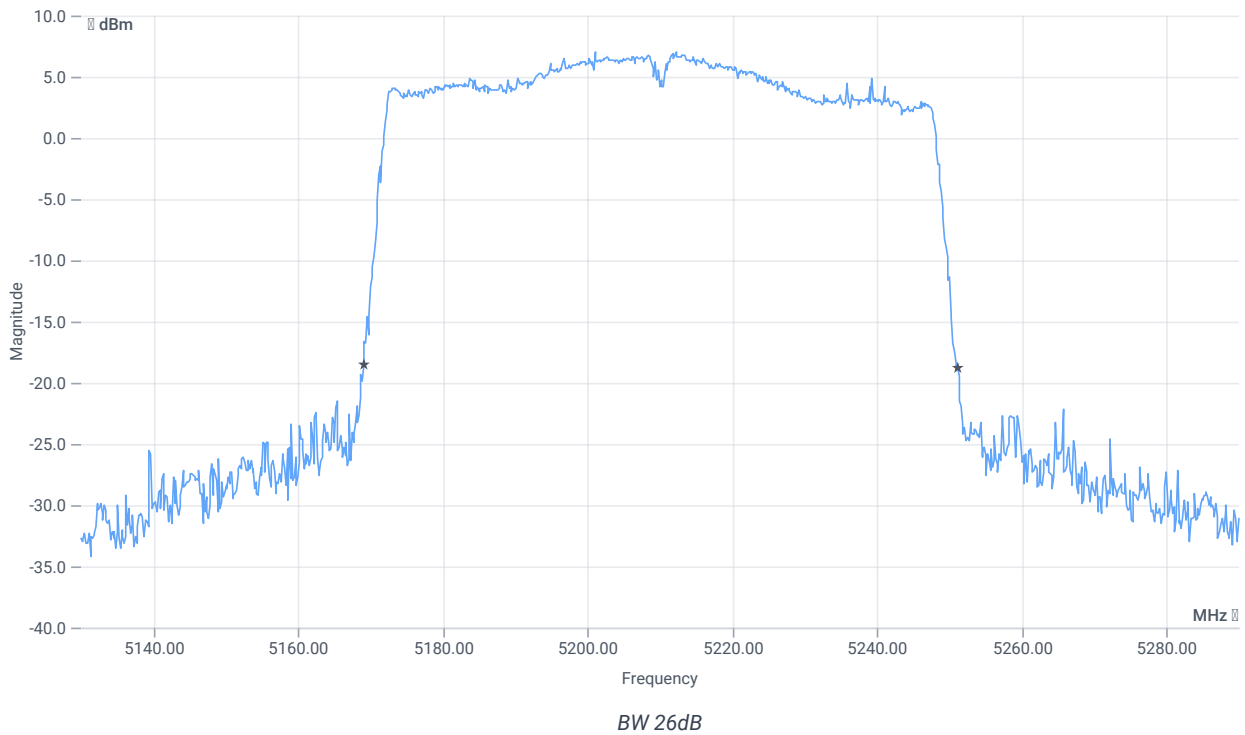
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                |             |             |          |      |         |
| Number of detected Bursts:153 |             |             |          |      |         |
| Duty Cycle (Burst Ratio) max  | ---         | ---         | 0.912    | ---  | INFO    |
| Duty Cycle max                | ---         | ---         | 0.4      | dB   | INFO    |
| Duty Cycle (Burst Ratio) min  | ---         | ---         | 0.727    | ---  | INFO    |
| Duty Cycle min                | ---         | ---         | 1.385    | dB   | INFO    |
| Max TX Burst Length           | ---         | ---         | 0.775    | ms   | INFO    |
| Min Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |



## Evaluation Bandwidth



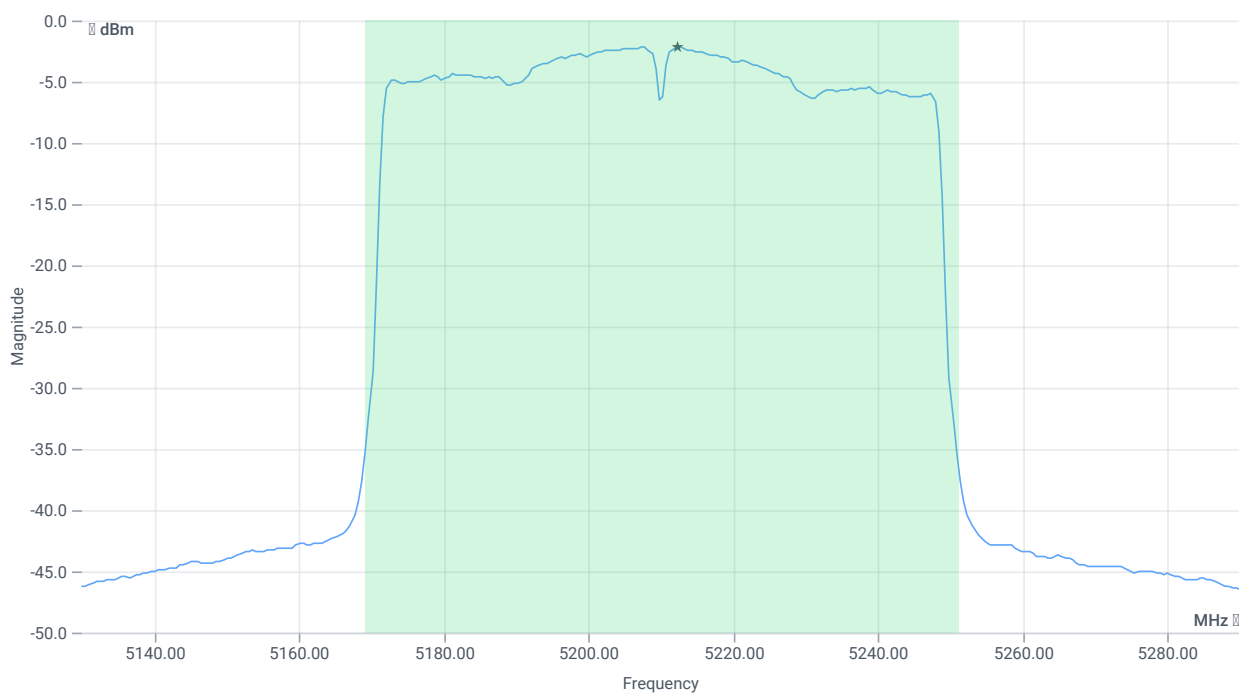
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 82.08     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5169.0400 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5251.1200 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.45   16.4   20      |
| Start [MHz]   Stop [MHz]                             | 5130.000   5290.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



Max OP and PSD

## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 14.47    | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 1.38     | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 24          | 15.85    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 82.08  |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 30.14       | 15.85    | dBm  | na      |

## Power Spectral Density

## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral Density              | ---         | ---         | -2.13    | dBm/1MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 1.38     | dB       | INFO    |
| Power Spectral Density DC corrected | ---         | 11          | -0.75    | dBm/1MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-1

### References

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| TC start                          | 19.01.2024 11:28:32                                   |
| Ambit temp [°C]   humidity [rel%] | 22.1   29                                             |
| System version                    | 4.7.1.5                                               |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                          |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN      |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-1 |
| Information                       |                                                       |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5210                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

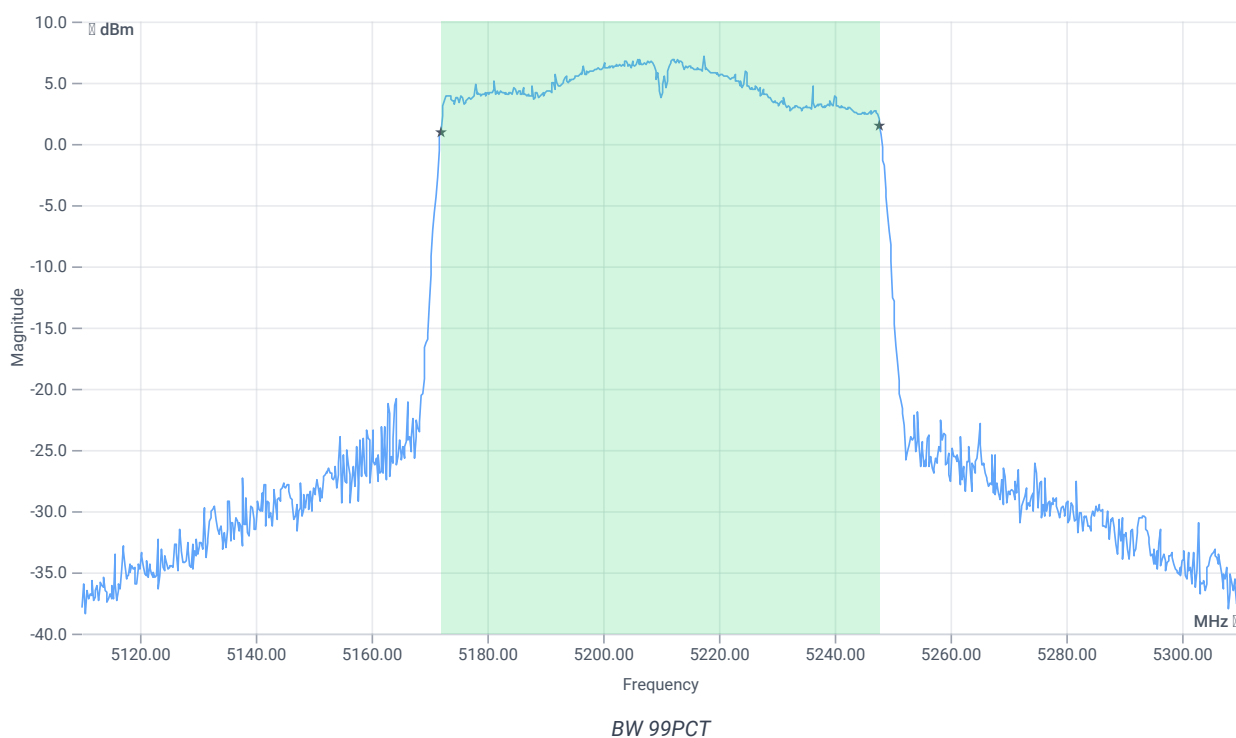
## Test at TX 5210 MHz

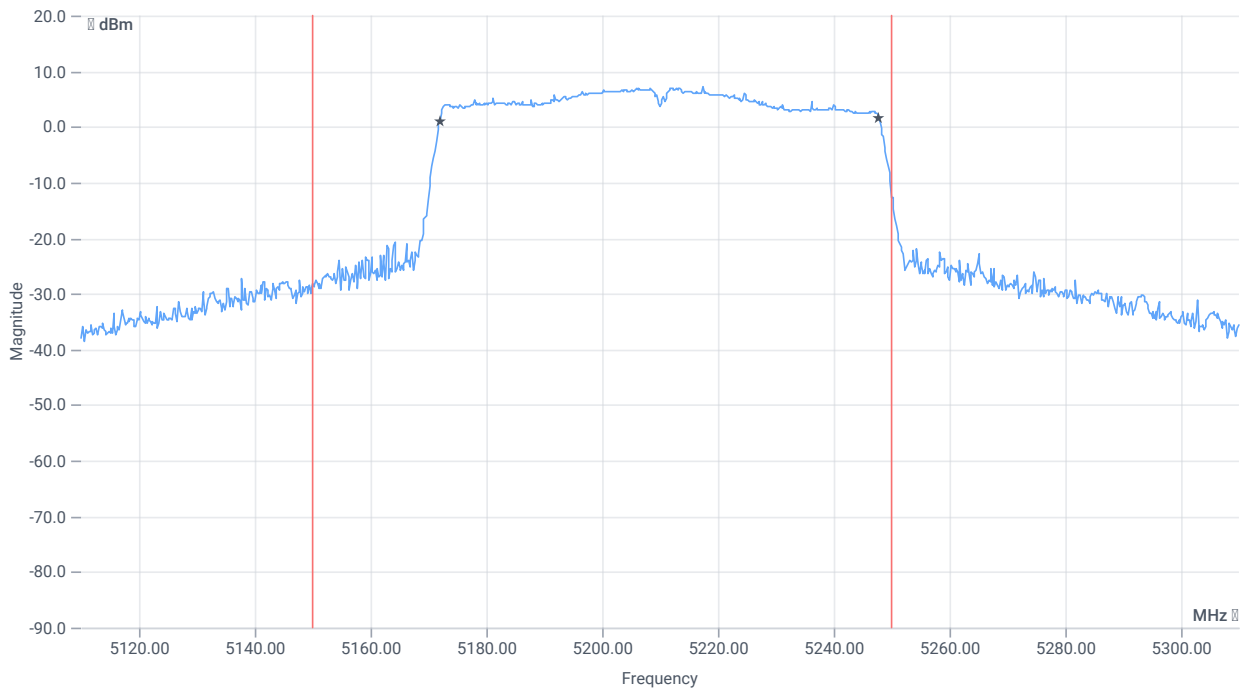
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.18     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5207.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 14.18   16.4   15     |
| Start [MHz]   Stop [MHz]                             | 5110.000   5310.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

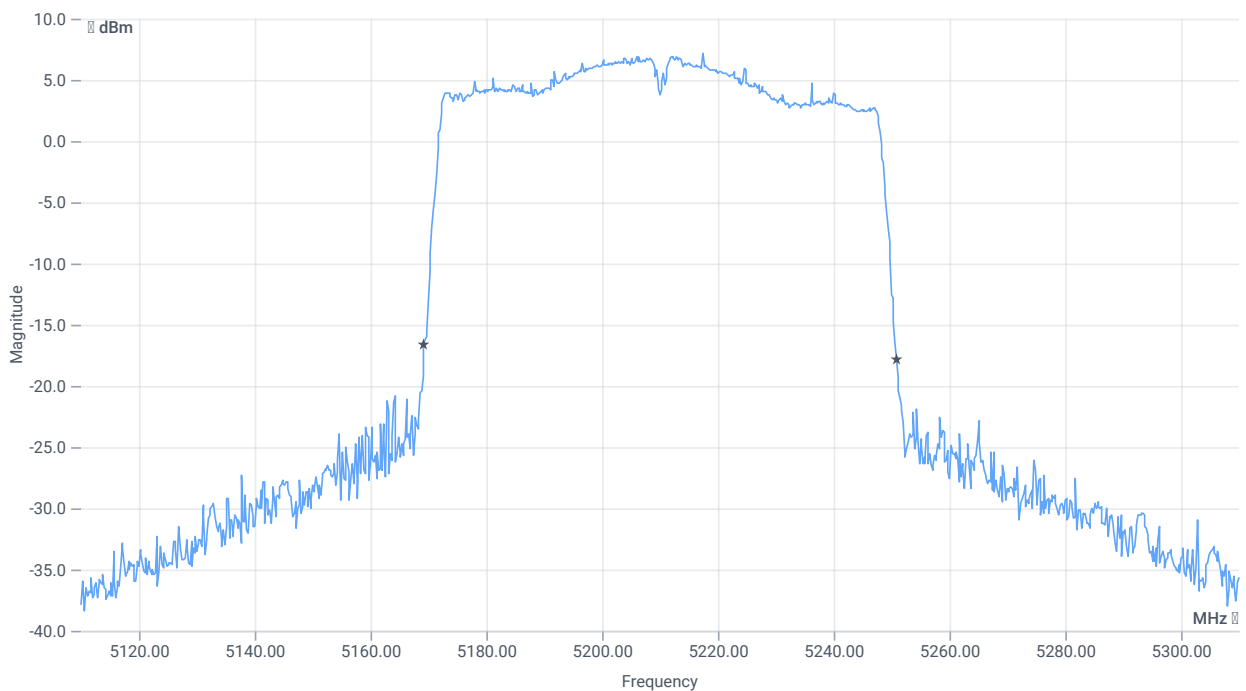




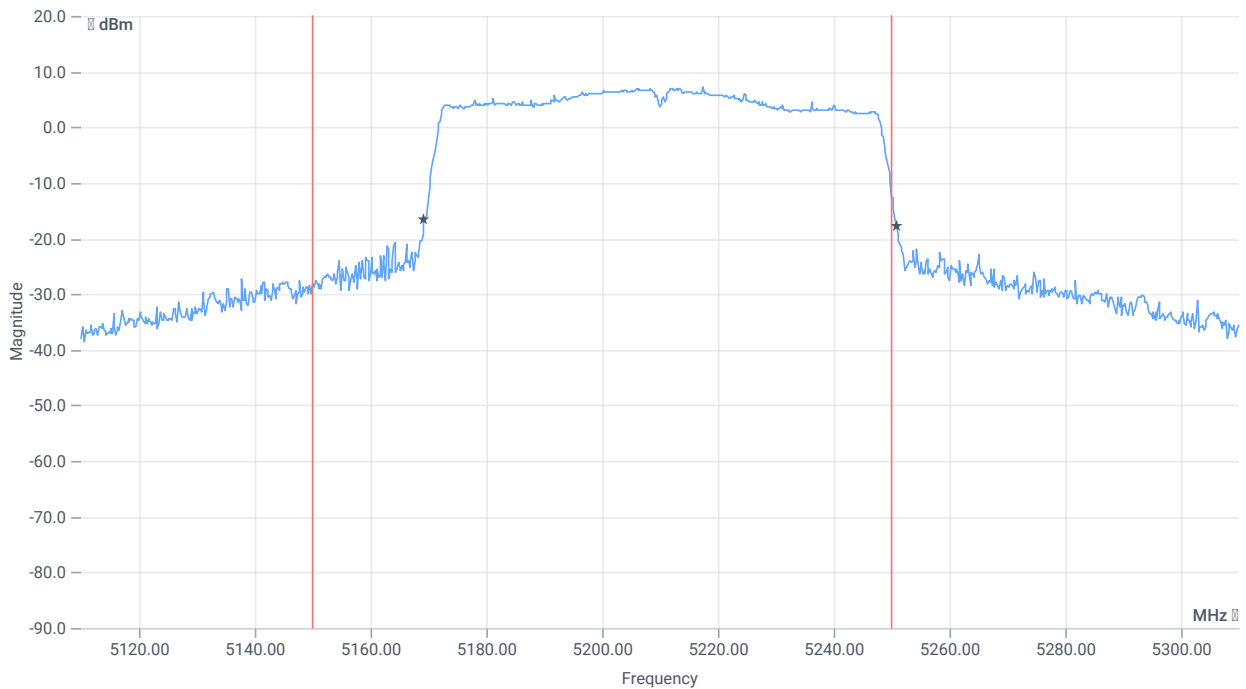
*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 75.724    | MHz  | INFO    |
| T1 99%        | 5150.000000 | ---         | 5172.0380 | MHz  | PASS    |
| T2 99%        | ---         | 5250.000000 | 5247.7622 | MHz  | PASS    |



### BW 26dB



### BW within Band 26dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT      |
|----------------|-------------|-------------|-----------|------|--------------|
| Bandwidth 26dB | ---         | ---         | 81.6      | MHz  | INFO         |
| T1 26dB        | 5150.000000 | ---         | 5169.2000 | MHz  | PASS         |
| T2 26dB        | ---         | 5250.000000 | 5250.8000 | MHz  | DFS required |

### Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-1

### References

|                                   |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| TC start                          | 19.01.2024 11:29:16                                               |
| Ambit temp [°C]   humidity [rel%] | 22.1   29                                                         |
| System version                    | 4.7.1.5                                                           |
| Standard   Version                | FCC 15.407   NI                                                   |
| Method                            | KDB789033 D02, F., E.2.e.                                         |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-1 |
| Information                       |                                                                   |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5210                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5210 MHz

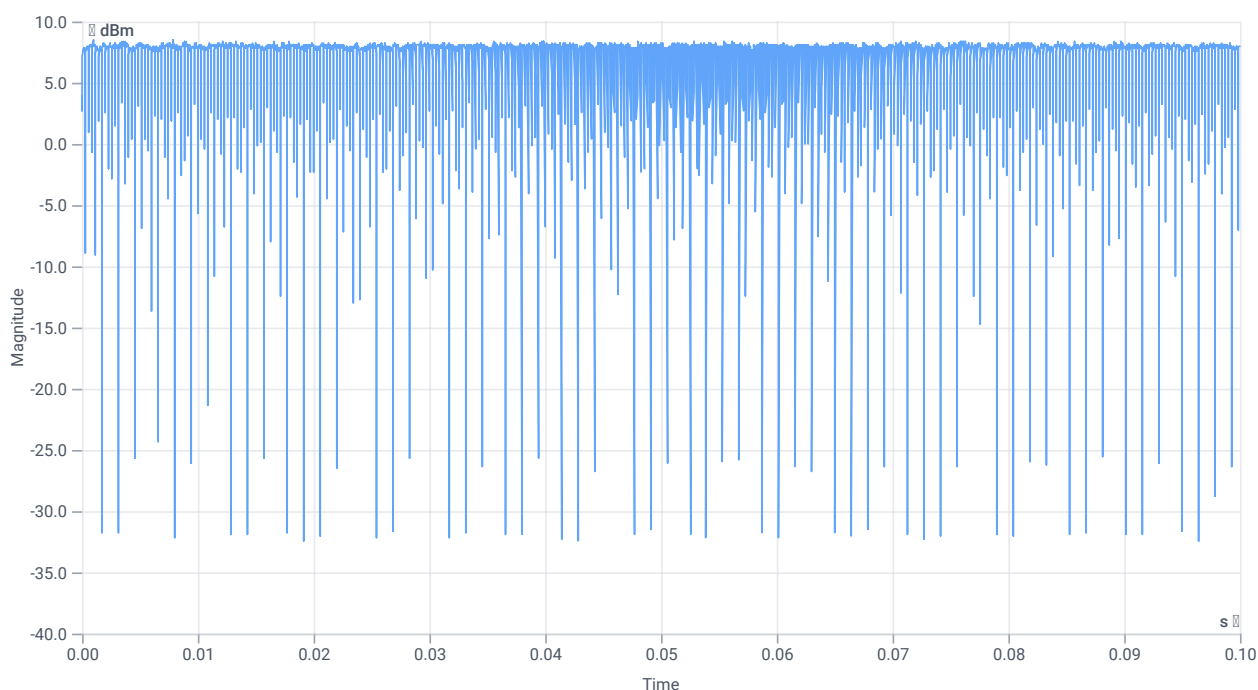
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.48     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5208.600 | MHz  | INFO    |

## Evaluation max. Duty Cycle

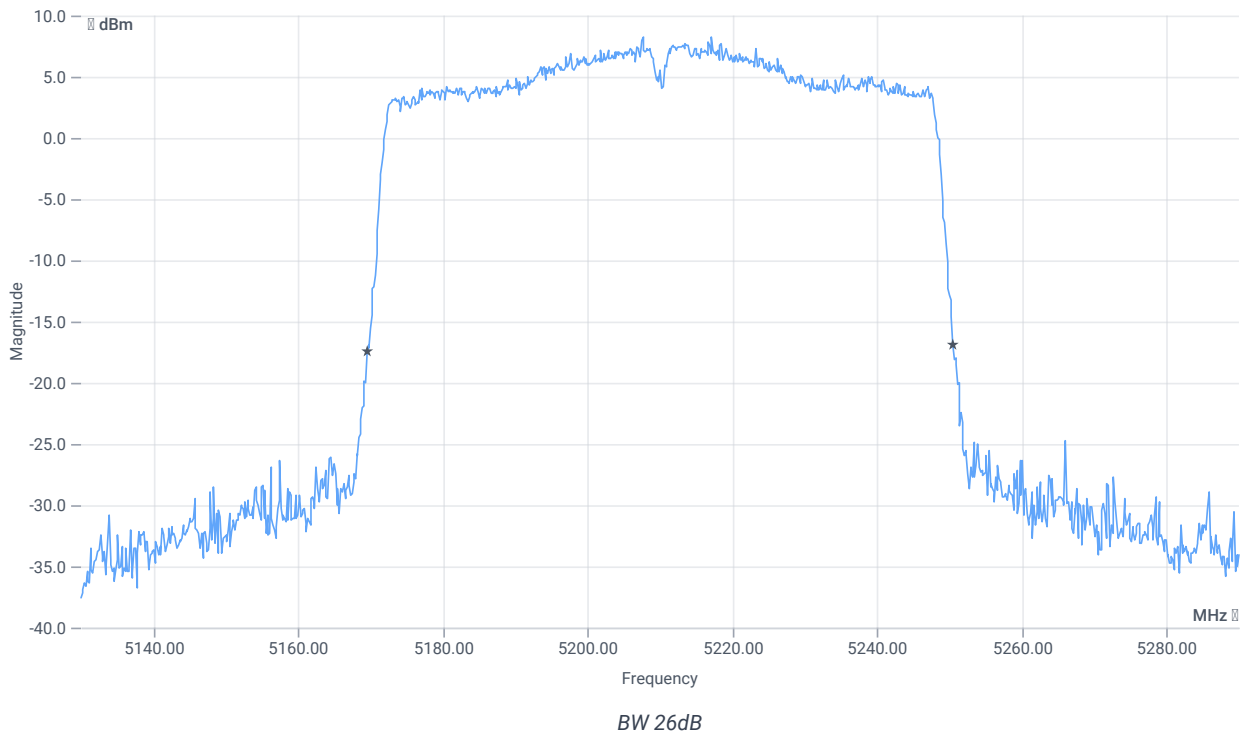
### Duty Cycle evaluation

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                  |             |             |          |      |         |
| Number of detected Bursts:161   |             |             |          |      |         |
| Duty Cycle (Burst<br>Ratio) max | ---         | ---         | 0.912    | ---  | INFO    |
| Duty Cycle max                  | ---         | ---         | 0.4      | dB   | INFO    |
| Duty Cycle (Burst<br>Ratio) min | ---         | ---         | 0.727    | ---  | INFO    |
| Duty Cycle min                  | ---         | ---         | 1.385    | dB   | INFO    |
| Max TX Burst Length             | ---         | ---         | 0.775    | ms   | INFO    |
| Min Gap Length                  | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                  | ---         | ---         | 0.075    | ms   | INFO    |



Duty cycle

## Evaluation Bandwidth



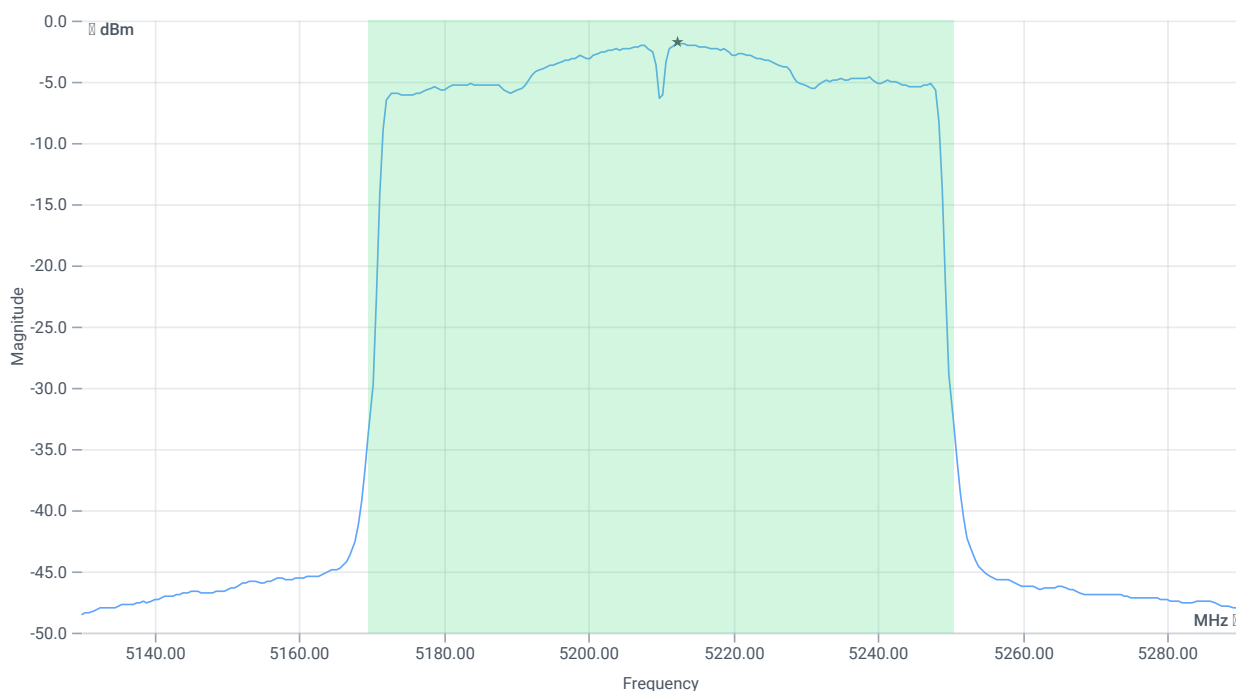
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 80.96     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5169.5200 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5250.4800 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.48   16.4   20      |
| Start [MHz]   Stop [MHz]                             | 5130.000   5290.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



Max OP and PSD

## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 14.6     | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 1.38     | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 24          | 15.98    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 80.96  |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 30.08       | 15.98    | dBm  | na      |

## Power Spectral Density

## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral Density              | ---         | ---         | -1.8     | dBm/1MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 1.38     | dB       | INFO    |
| Power Spectral Density DC corrected | ---         | 11          | -0.42    | dBm/1MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-1

### References

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| TC start                          | 19.01.2024 11:31:47                                   |
| Ambit temp [°C]   humidity [rel%] | 22.1   29                                             |
| System version                    | 4.7.1.5                                               |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                          |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN      |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-1 |
| Information                       |                                                       |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5210                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

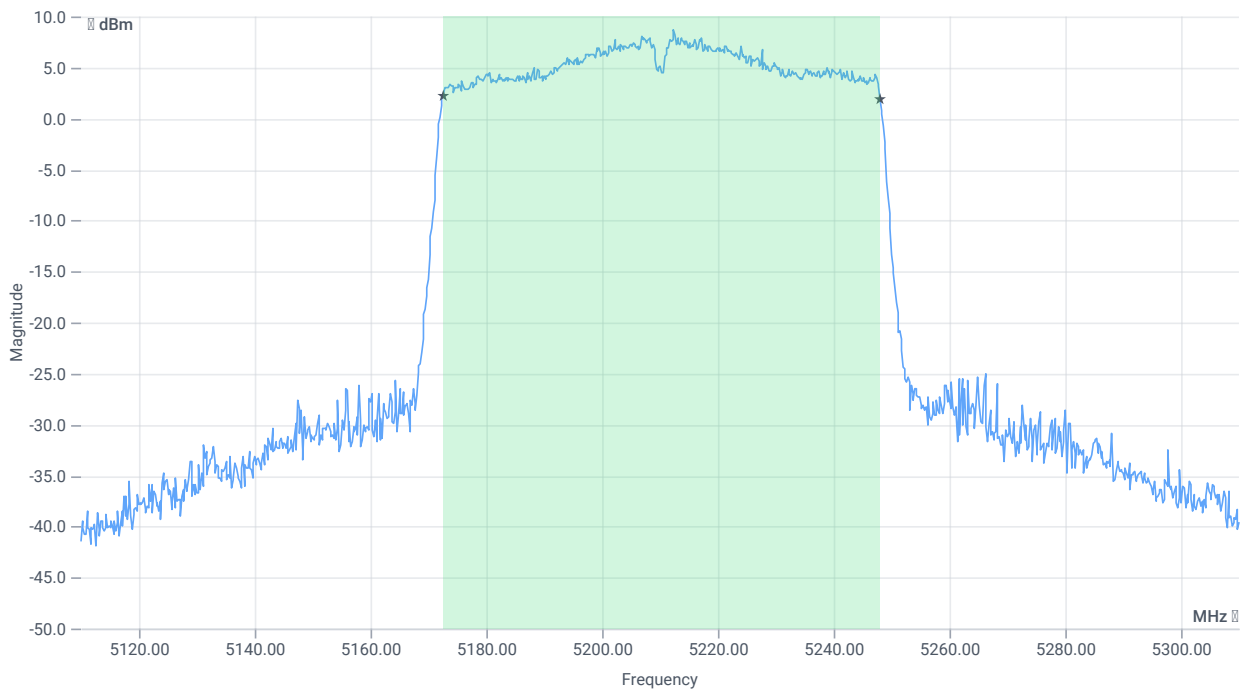
## Test at TX 5210 MHz

RESULT: Reference Power cond.

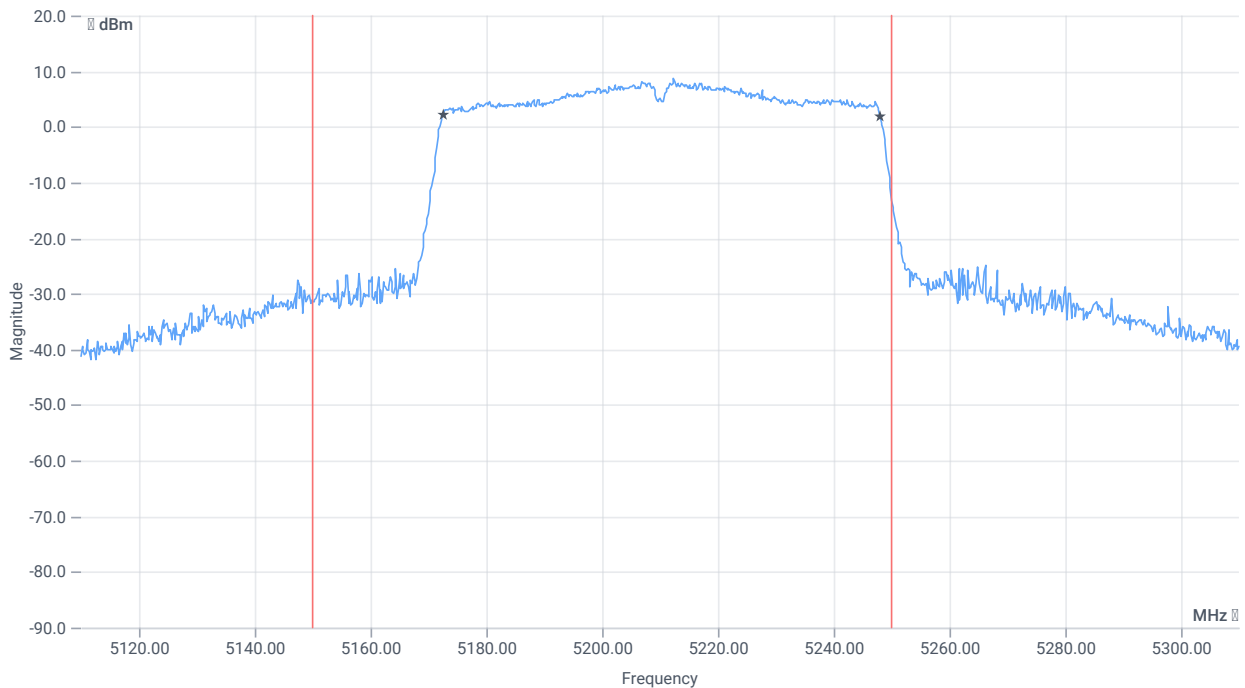
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.18     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5215.990 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 14.18   16.4   15     |
| Start [MHz]   Stop [MHz]                             | 5110.000   5310.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



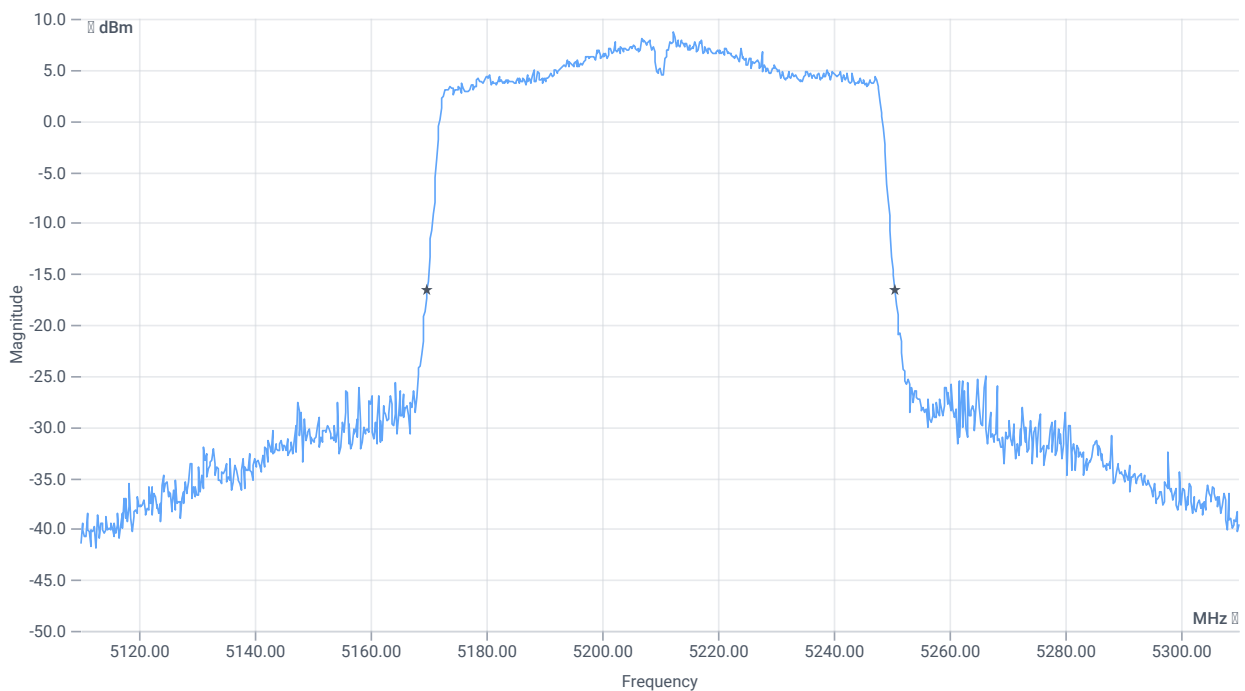
BW 99PCT



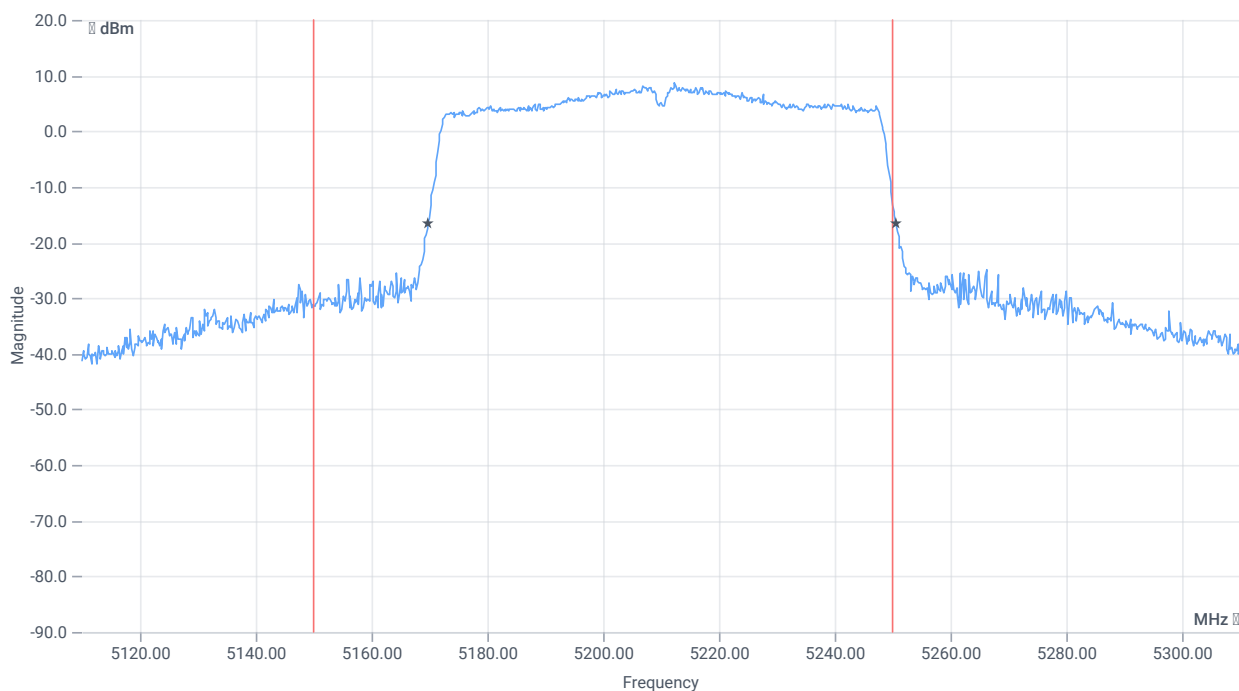
*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 75.524    | MHz  | INFO    |
| T1 99%        | 5150.000000 | ---         | 5172.4376 | MHz  | PASS    |
| T2 99%        | ---         | 5250.000000 | 5247.9620 | MHz  | PASS    |



# BW 26dB



BW within Band 26dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT      |
|----------------|-------------|-------------|-----------|------|--------------|
| Bandwidth 26dB | ---         | ---         | 80.8      | MHz  | INFO         |
| T1 26dB        | 5150.000000 | ---         | 5169.8000 | MHz  | PASS         |
| T2 26dB        | ---         | 5250.000000 | 5250.6000 | MHz  | DFS required |

## Verdict

PASS

## FCC 15.407 # MIMO Σ Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-1

### References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 19.01.2024 11:32:30                                    |
| Ambit temp [°C]   humidity [rel%] | 22.0   29                                              |
| System version                    | 4.7.1.5                                                |
| Standard   Version                | FCC 15.407   NI                                        |
| Method                            |                                                        |
| Description                       | MIMO Σ FCC Power & psd - WLAN5Gx ac-VHT80 mode U-NII-1 |
| Information                       |                                                        |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                        |
|--------------------------------------------------|------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode  |
| Antenna port used                                | several                |
| Temperature                                      | nom                    |
| Voltage                                          | nom                    |
| Frequency low to test                            | False   Freq [MHz] 0   |
| Frequency mid to test                            | True   Freq [MHz] 5210 |
| Frequency high to test                           | False   Freq [MHz] 0   |
| Auto control enabled power supply   Climatic Box | No   No                |
| Additional path loss [dB]                        | 1.4                    |
| Full path name   type                            | None                   |

### Equipment

## Test at TX 5210 MHz

### RESULT Power

| DESCRIPTION                           | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------------|-------------|-------------|----------|------|---------|
| Ant:2 Max Output Power DC corrected   | ---         | ---         | 15.98    | dBm  | INFO    |
| Ant:2 BW 26dB                         | ---         | ---         | 80.960   | MHz  | INFO    |
| Ant:1 Max Output Power DC corrected   | ---         | ---         | 15.85    | dBm  | INFO    |
| Ant:1 BW 26dB                         | ---         | ---         | 82.080   | MHz  | INFO    |
| $\Sigma$ Limit absolute               | ---         | 24          | 18.93    | dBm  | PASS    |
| $\Sigma$ Limit: 11 dBm + 10 log 80.96 | ---         | 30.08       | 18.93    | dBm  | na      |

### RESULT PSD

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------|-------------|-------------|----------|----------|---------|
| Ant:2 PSD   | ---         | ---         | -0.42    | dBm/1MHz | INFO    |
| Ant:1 PSD   | ---         | ---         | -0.75    | dBm/1MHz | INFO    |
| $\Sigma$    | ---         | 11          | 2.43     | dBm/1MHz | PASS    |

### Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2A

### References

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| TC start                          | 19.01.2024 11:44:33                                                |
| Ambit temp [°C]   humidity [rel%] | 22.0   29                                                          |
| System version                    | 4.7.1.5                                                            |
| Standard   Version                | FCC 15.407   NI                                                    |
| Method                            | KDB789033 D02, F., E.2.e.                                          |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2A |
| Information                       |                                                                    |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5290                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5290 MHz

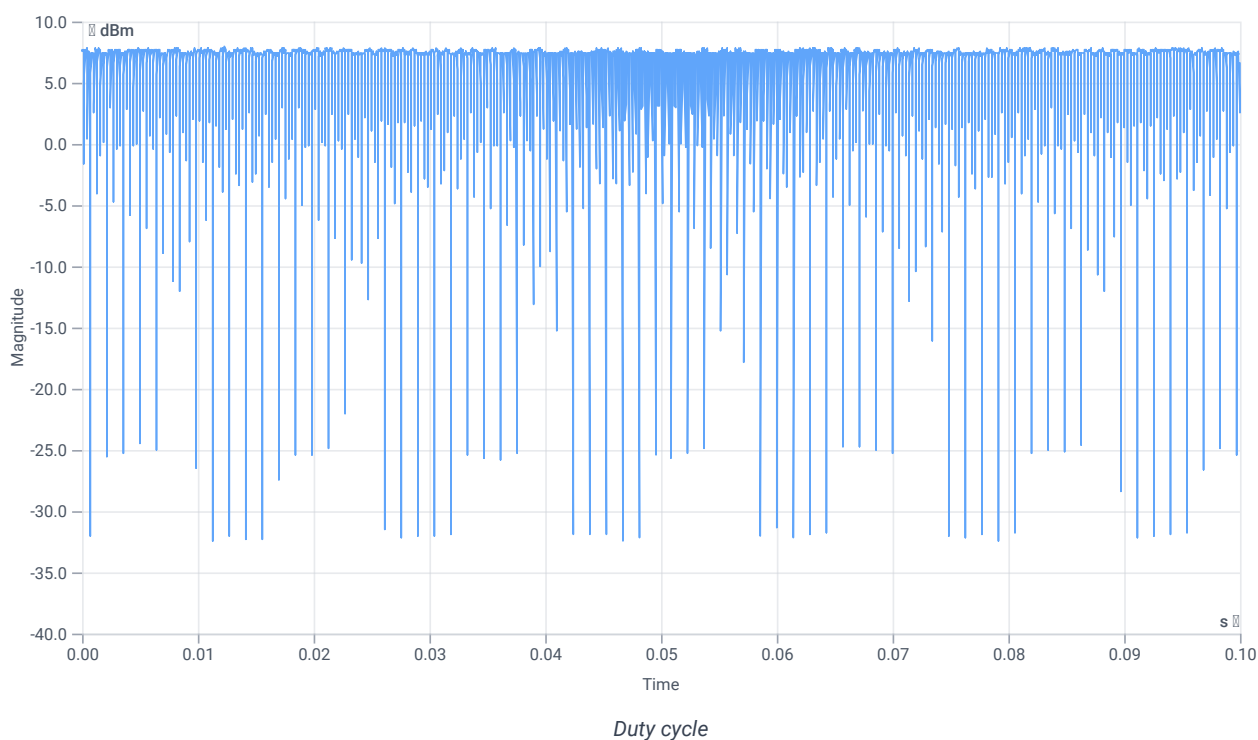
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.20     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5292.200 | MHz  | INFO    |

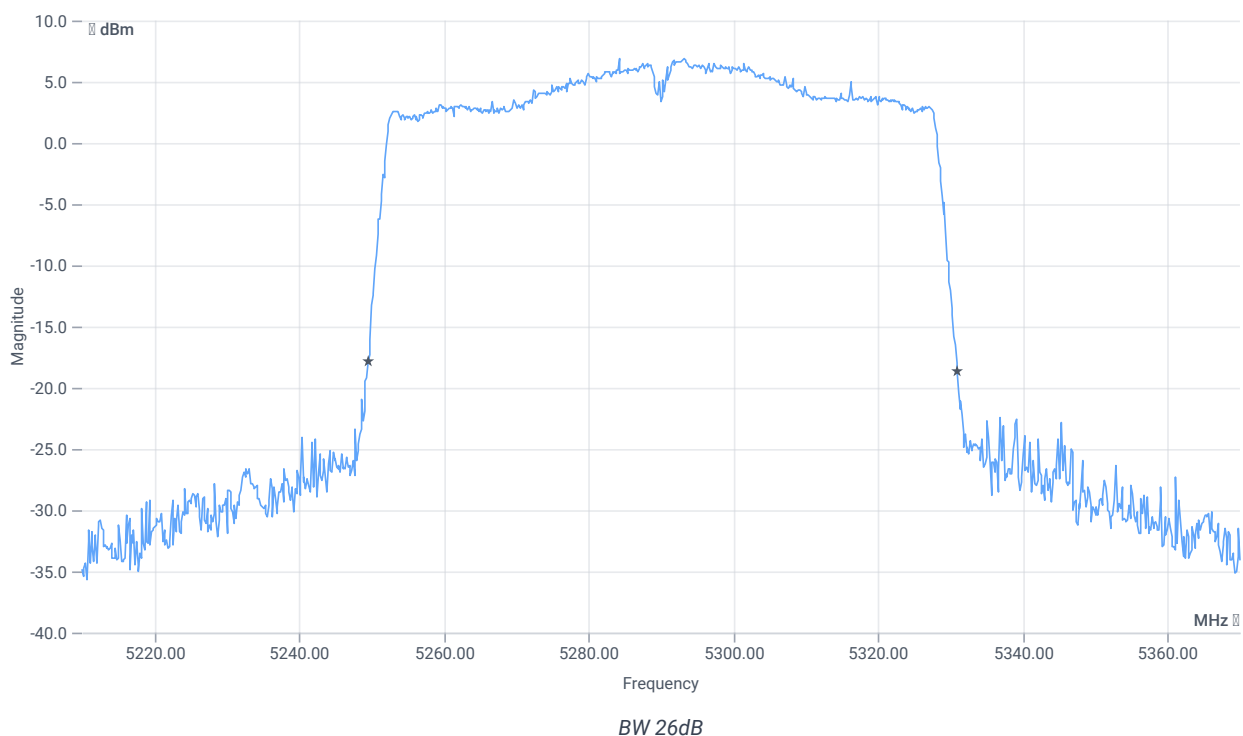
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                |             |             |          |      |         |
| Number of detected Bursts:155 |             |             |          |      |         |
| Duty Cycle (Burst Ratio) max  | ---         | ---         | 0.912    | ---  | INFO    |
| Duty Cycle max                | ---         | ---         | 0.4      | dB   | INFO    |
| Duty Cycle (Burst Ratio) min  | ---         | ---         | 0.727    | ---  | INFO    |
| Duty Cycle min                | ---         | ---         | 1.385    | dB   | INFO    |
| Max TX Burst Length           | ---         | ---         | 0.775    | ms   | INFO    |
| Min Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |



## Evaluation Bandwidth



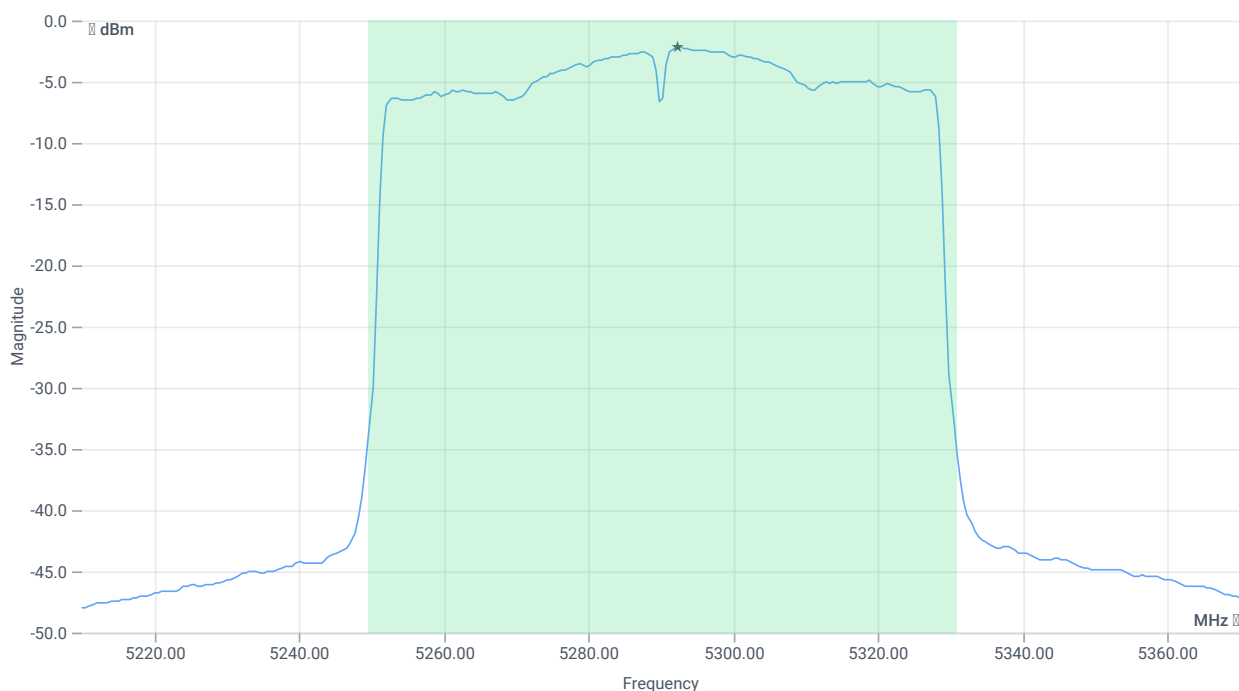
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 81.44     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5249.5200 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5330.9600 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.20   16.2   20      |
| Start [MHz]   Stop [MHz]                             | 5210.000   5370.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



Max OP and PSD

## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 14.2     | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 1.38     | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 24          | 15.58    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 81.44  |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 30.11       | 15.58    | dBm  | PASS    |

## Power Spectral Density

## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral Density              | ---         | ---         | -2.14    | dBm/1MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 1.38     | dB       | INFO    |
| Power Spectral Density DC corrected | ---         | 11          | -0.76    | dBm/1MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-2A

### References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 19.01.2024 11:47:05                                    |
| Ambit temp [°C]   humidity [rel%] | 22.0   29                                              |
| System version                    | 4.7.1.5                                                |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                           |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN       |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-2A |
| Information                       |                                                        |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5290                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

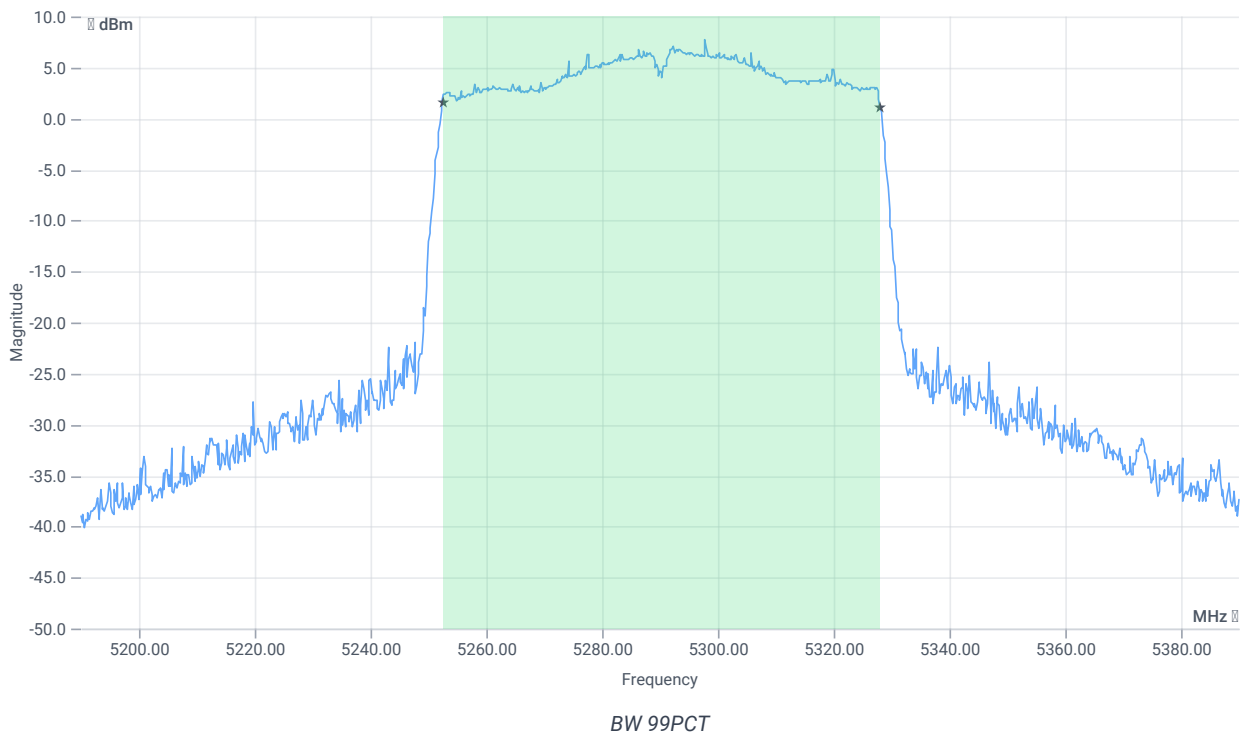
## Test at TX 5290 MHz

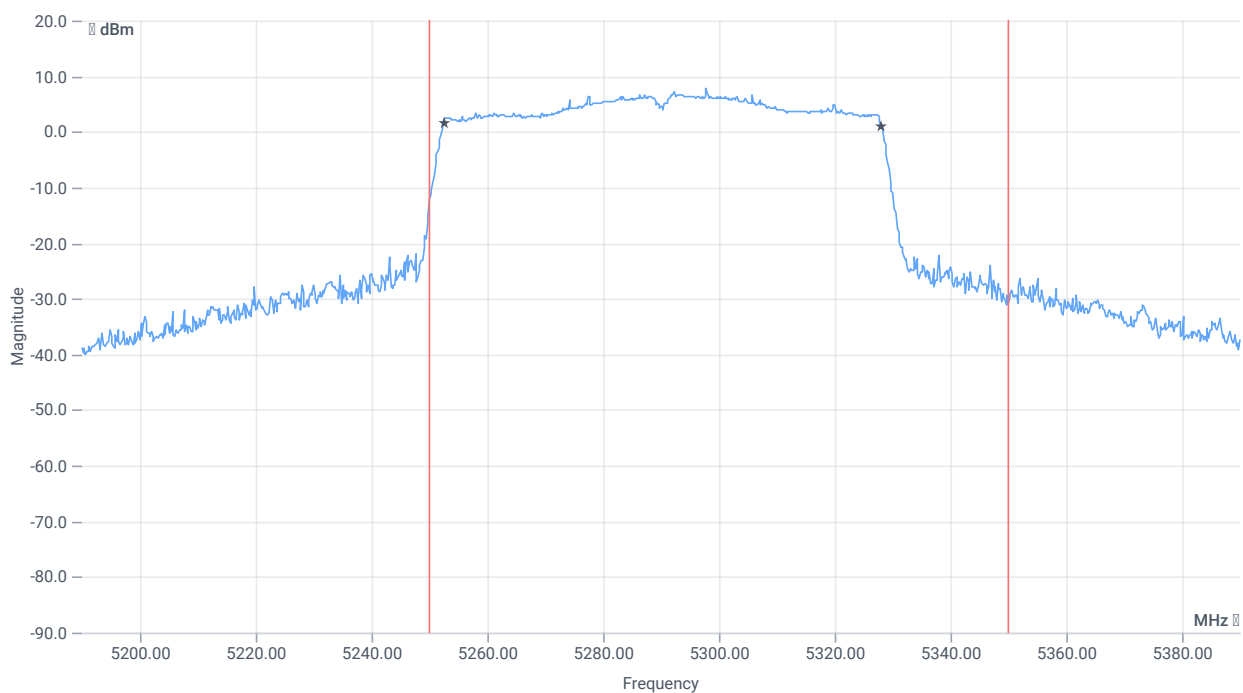
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 5.47     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5292.200 | MHz  | INFO    |

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 13.47   16.2   15     |
| Start [MHz]   Stop [MHz]                             | 5190.000   5390.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

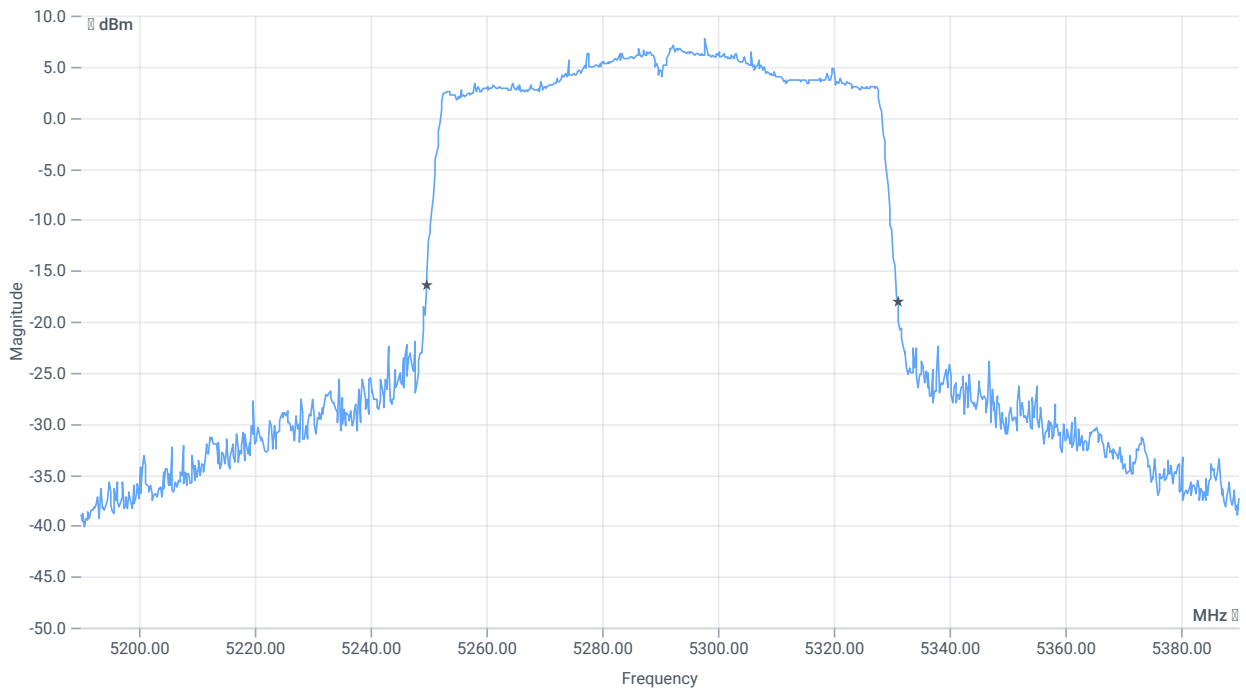




*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|---------------|-------------|-------------|-----------|------|---------------------------------|
| Bandwidth 99% | ---         | ---         | 75.524    | MHz  | INFO                            |
| T1 99%        | 5250.000000 | ---         | 5252.4376 | MHz  | PASS since U-NII-1 is supported |
| T2 99%        | ---         | 5350.000000 | 5327.9620 | MHz  | PASS                            |



*BW 26dB*



*BW within Band 26dB*

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 81.4     | MHz  | INFO    |

## RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|-------------|-------------|-------------|-----------|------|---------------------------------|
| T1 26dB     | 5250.000000 | ---         | 5249.6000 | MHz  | PASS since U-NII-1 is supported |
| T2 26dB     | ---         | 5350.000000 | 5331.0000 | MHz  | PASS                            |

## Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2A

### References

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| TC start                          | 19.01.2024 11:47:45                                                |
| Ambit temp [°C]   humidity [rel%] | 22.0   29                                                          |
| System version                    | 4.7.1.5                                                            |
| Standard   Version                | FCC 15.407   NI                                                    |
| Method                            | KDB789033 D02, F., E.2.e.                                          |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2A |
| Information                       |                                                                    |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5290                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5290 MHz

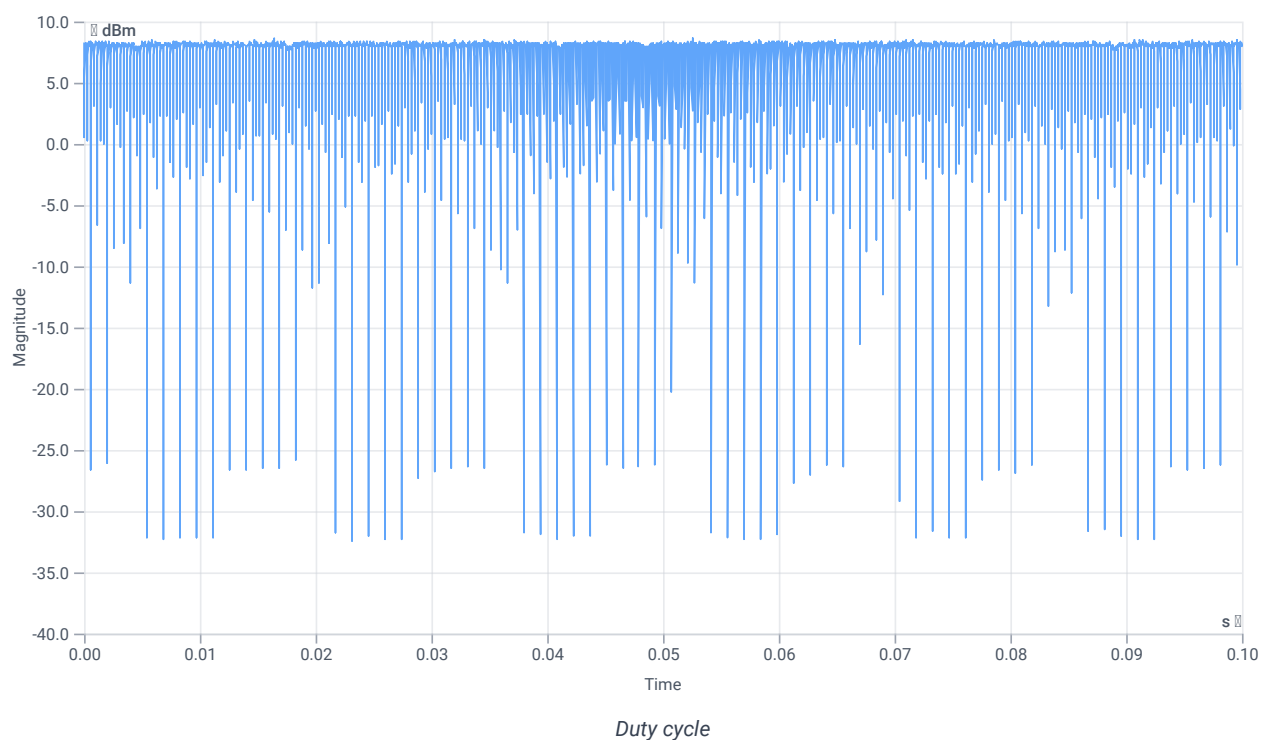
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.89     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5297.790 | MHz  | INFO    |

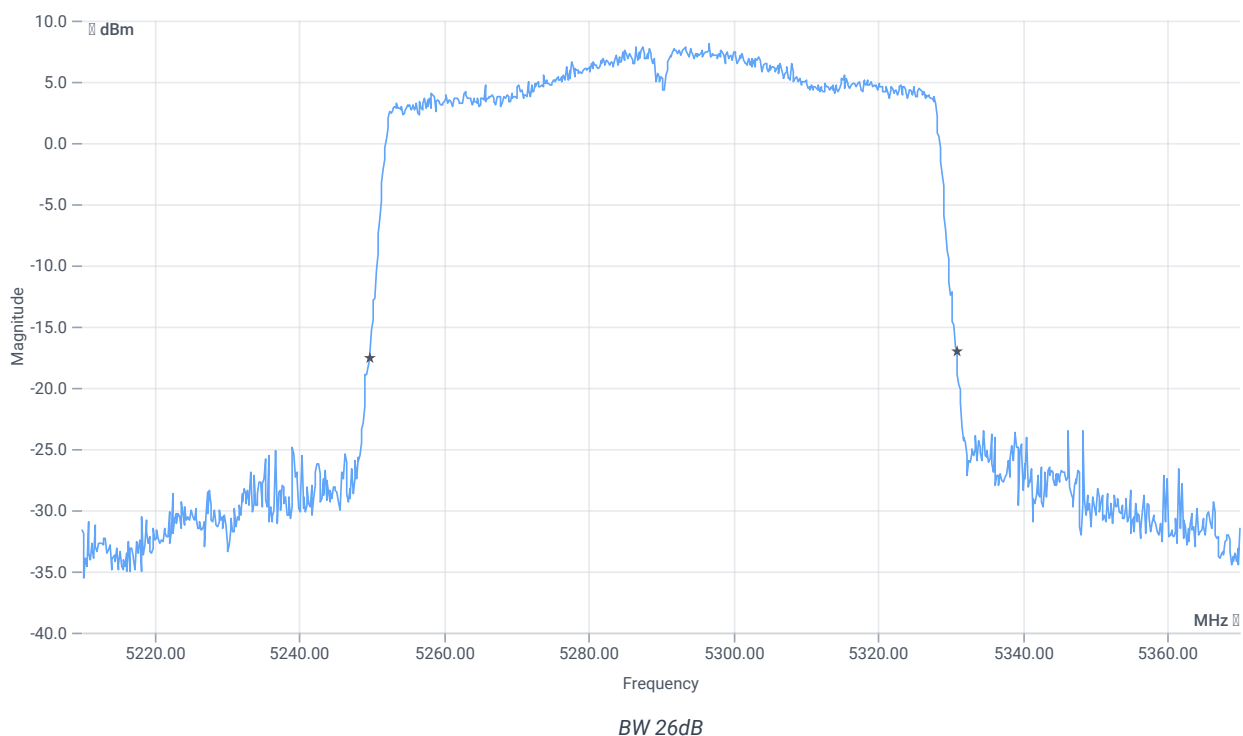
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                |             |             |          |      |         |
| Number of detected Bursts:158 |             |             |          |      |         |
| Duty Cycle (Burst Ratio) max  | ---         | ---         | 0.912    | ---  | INFO    |
| Duty Cycle max                | ---         | ---         | 0.4      | dB   | INFO    |
| Duty Cycle (Burst Ratio) min  | ---         | ---         | 0.727    | ---  | INFO    |
| Duty Cycle min                | ---         | ---         | 1.385    | dB   | INFO    |
| Max TX Burst Length           | ---         | ---         | 0.775    | ms   | INFO    |
| Min Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |



## Evaluation Bandwidth



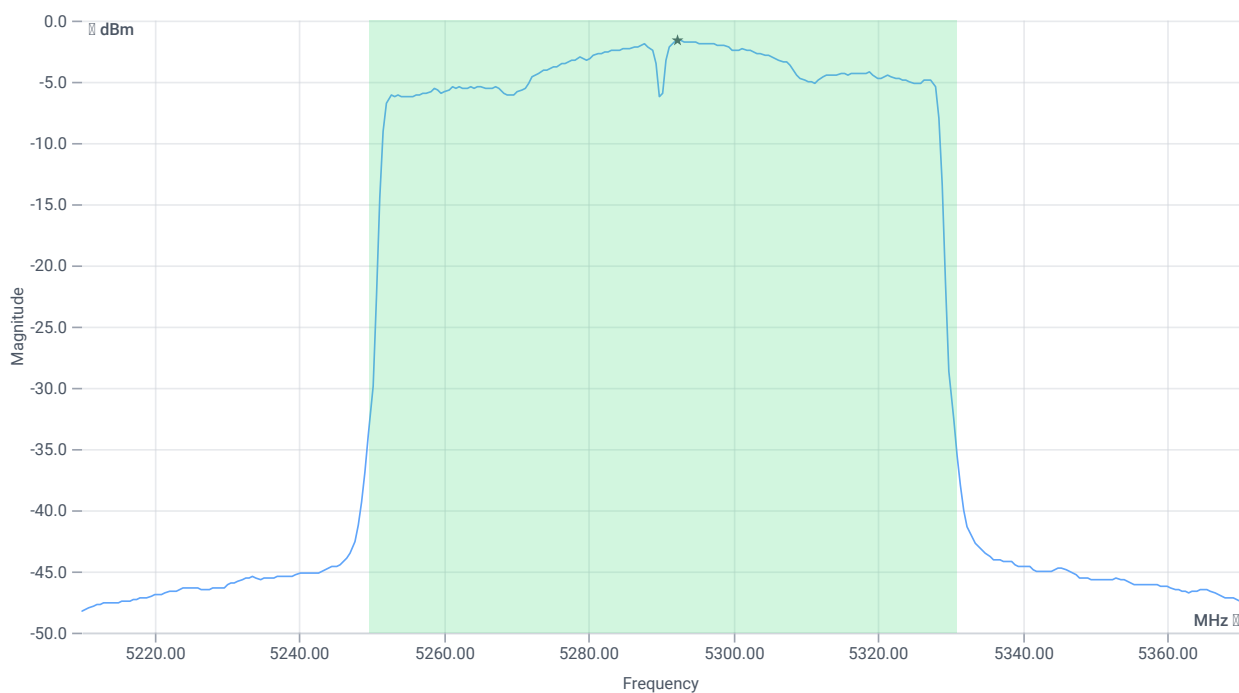
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 81.12     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5249.6800 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5330.8000 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.89   16.2   20      |
| Start [MHz]   Stop [MHz]                             | 5210.000   5370.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



Max OP and PSD

## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 14.73    | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 1.38     | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 24          | 16.11    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 81.12  |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 30.09       | 16.11    | dBm  | PASS    |

## Power Spectral Density

## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral Density              | ---         | ---         | -1.6     | dBm/1MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 1.38     | dB       | INFO    |
| Power Spectral Density DC corrected | ---         | 11          | -0.22    | dBm/1MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-2A

### References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 19.01.2024 11:50:16                                    |
| Ambit temp [°C]   humidity [rel%] | 22.1   29                                              |
| System version                    | 4.7.1.5                                                |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                           |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN       |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-2A |
| Information                       |                                                        |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5290                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

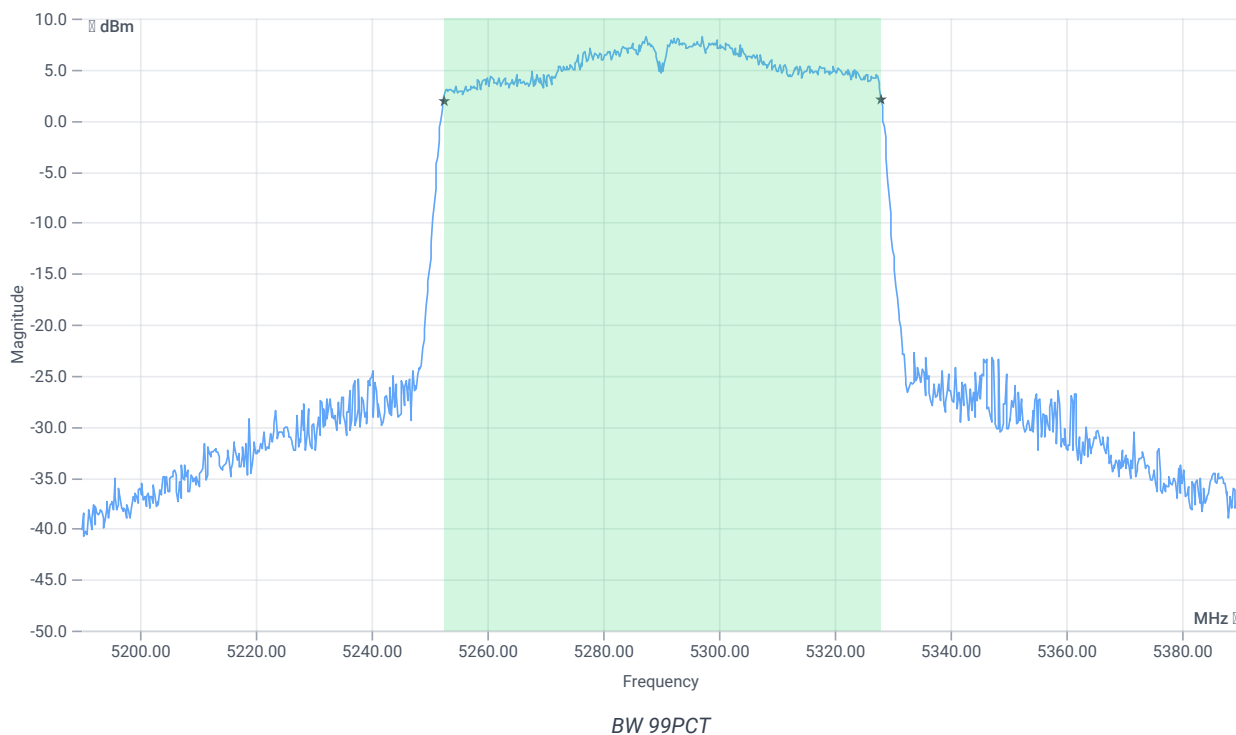
## Test at TX 5290 MHz

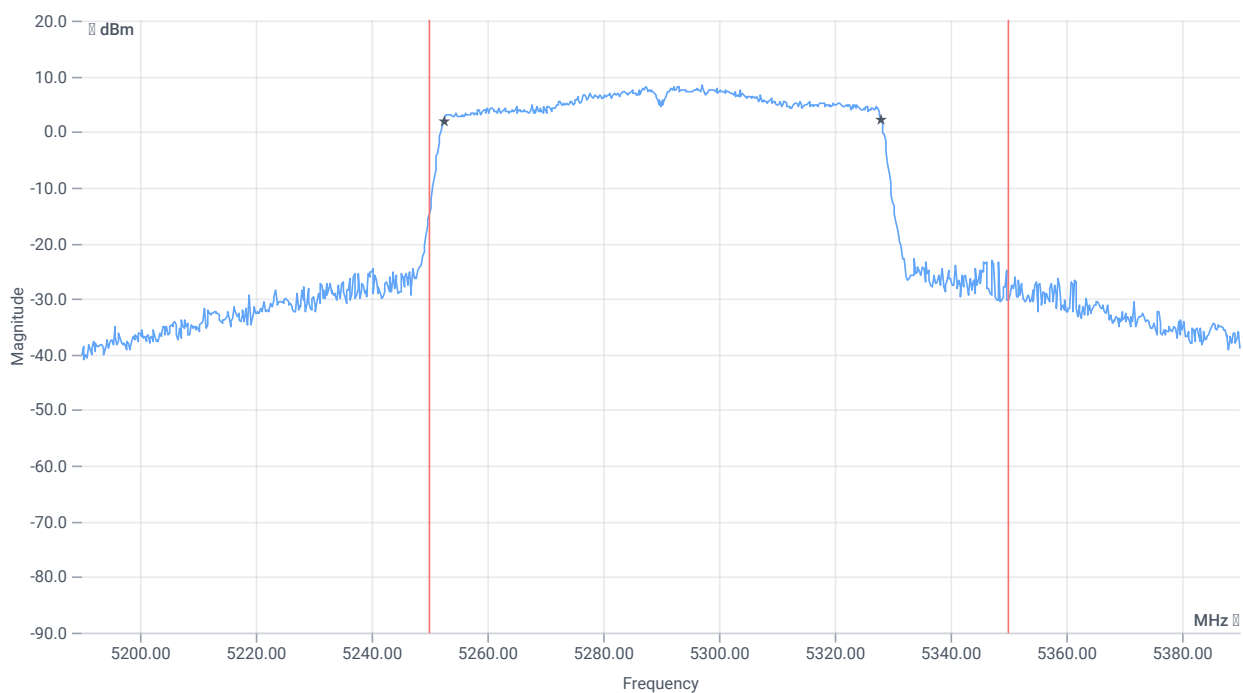
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.91     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5284.610 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 14.91   16.2   15     |
| Start [MHz]   Stop [MHz]                             | 5190.000   5390.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

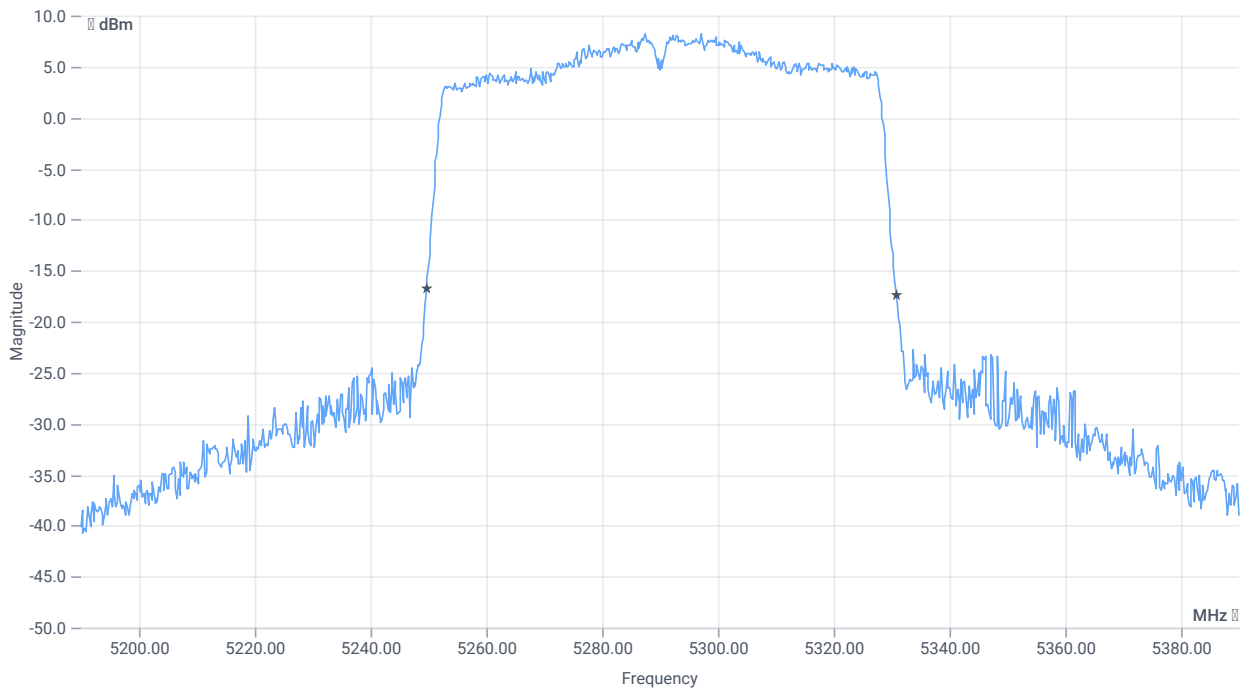




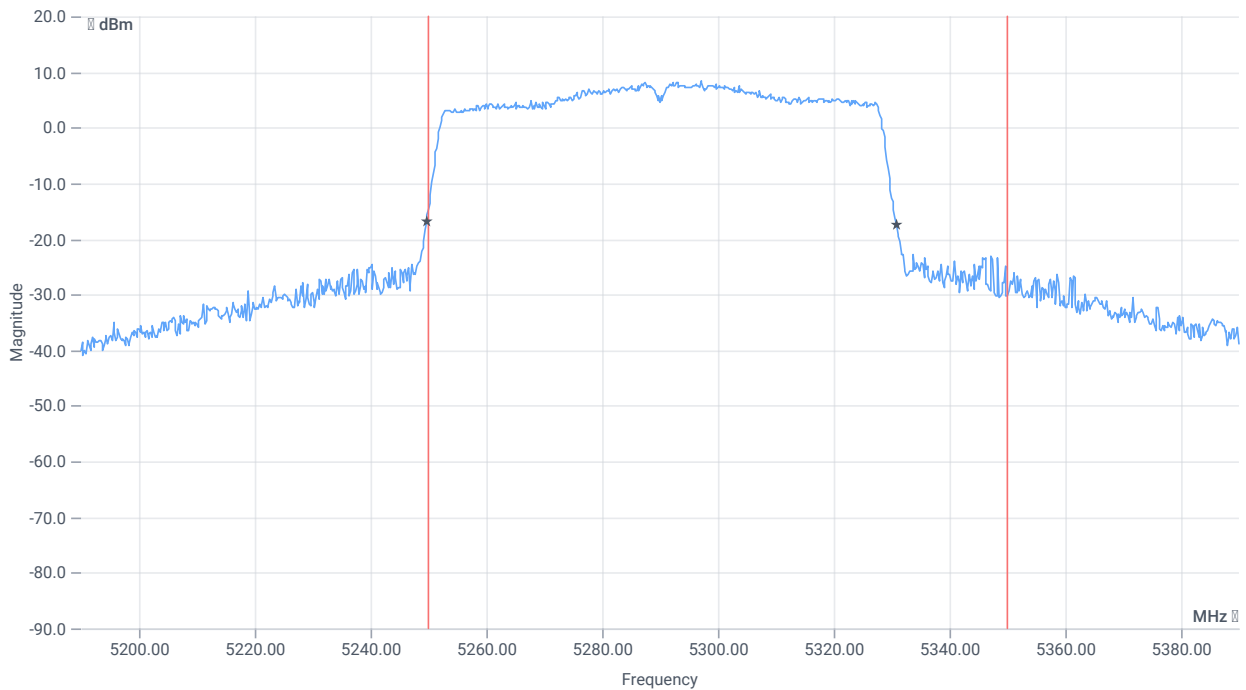
*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|---------------|-------------|-------------|-----------|------|---------------------------------|
| Bandwidth 99% | ---         | ---         | 75.524    | MHz  | INFO                            |
| T1 99%        | 5250.000000 | ---         | 5252.4376 | MHz  | PASS since U-NII-1 is supported |
| T2 99%        | ---         | 5350.000000 | 5327.9620 | MHz  | PASS                            |



*BW 26dB*



*BW within Band 26dB*

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 81.2     | MHz  | INFO    |

## RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|-------------|-------------|-------------|-----------|------|---------------------------------|
| T1 26dB     | 5250.000000 | ---         | 5249.6000 | MHz  | PASS since U-NII-1 is supported |
| T2 26dB     | ---         | 5350.000000 | 5330.8000 | MHz  | PASS                            |

## Verdict

PASS

## FCC 15.407 # MIMO Σ Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2A

### References

|                                   |                                                         |
|-----------------------------------|---------------------------------------------------------|
| TC start                          | 19.01.2024 11:50:56                                     |
| Ambit temp [°C]   humidity [rel%] | 22.0   29                                               |
| System version                    | 4.7.1.5                                                 |
| Standard   Version                | FCC 15.407   NI                                         |
| Method                            |                                                         |
| Description                       | MIMO Σ FCC Power & psd - WLAN5Gx ac-VHT80 mode U-NII-2A |
| Information                       |                                                         |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                        |
|--------------------------------------------------|------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode  |
| Antenna port used                                | several                |
| Temperature                                      | nom                    |
| Voltage                                          | nom                    |
| Frequency low to test                            | False   Freq [MHz] 0   |
| Frequency mid to test                            | True   Freq [MHz] 5290 |
| Frequency high to test                           | False   Freq [MHz] 0   |
| Auto control enabled power supply   Climatic Box | No   No                |
| Additional path loss [dB]                        | 1.4                    |
| Full path name   type                            | None                   |

### Equipment

## Test at TX 5290 MHz

### RESULT Power

| DESCRIPTION                           | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------------|-------------|-------------|----------|------|---------|
| Ant:1 Max Output Power DC corrected   | ---         | ---         | 15.58    | dBm  | INFO    |
| Ant:1 BW 26dB                         | ---         | ---         | 81.440   | MHz  | INFO    |
| Ant:2 Max Output Power DC corrected   | ---         | ---         | 16.11    | dBm  | INFO    |
| Ant:2 BW 26dB                         | ---         | ---         | 81.120   | MHz  | INFO    |
| $\Sigma$ Limit absolute               | ---         | 24          | 18.86    | dBm  | PASS    |
| $\Sigma$ Limit: 11 dBm + 10 log 81.12 | ---         | 30.09       | 18.86    | dBm  | PASS    |

### RESULT PSD

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------|-------------|-------------|----------|----------|---------|
| Ant:1 PSD   | ---         | ---         | -0.76    | dBm/1MHz | INFO    |
| Ant:2 PSD   | ---         | ---         | -0.22    | dBm/1MHz | INFO    |
| $\Sigma$    | ---         | 11          | 2.53     | dBm/1MHz | PASS    |

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| TC start                          | 19.01.2024 11:55:20                                                |
| Ambit temp [°C]   humidity [rel%] | 22.1   29                                                          |
| System version                    | 4.7.1.5                                                            |
| Standard   Version                | FCC 15.407   NI                                                    |
| Method                            | KDB789033 D02, F., E.2.e.                                          |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                                    |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5530                 |
| Frequency mid to test                            | False   Freq [MHz] 5610                |
| Frequency high to test                           | False   Freq [MHz] 5690                |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5530 MHz

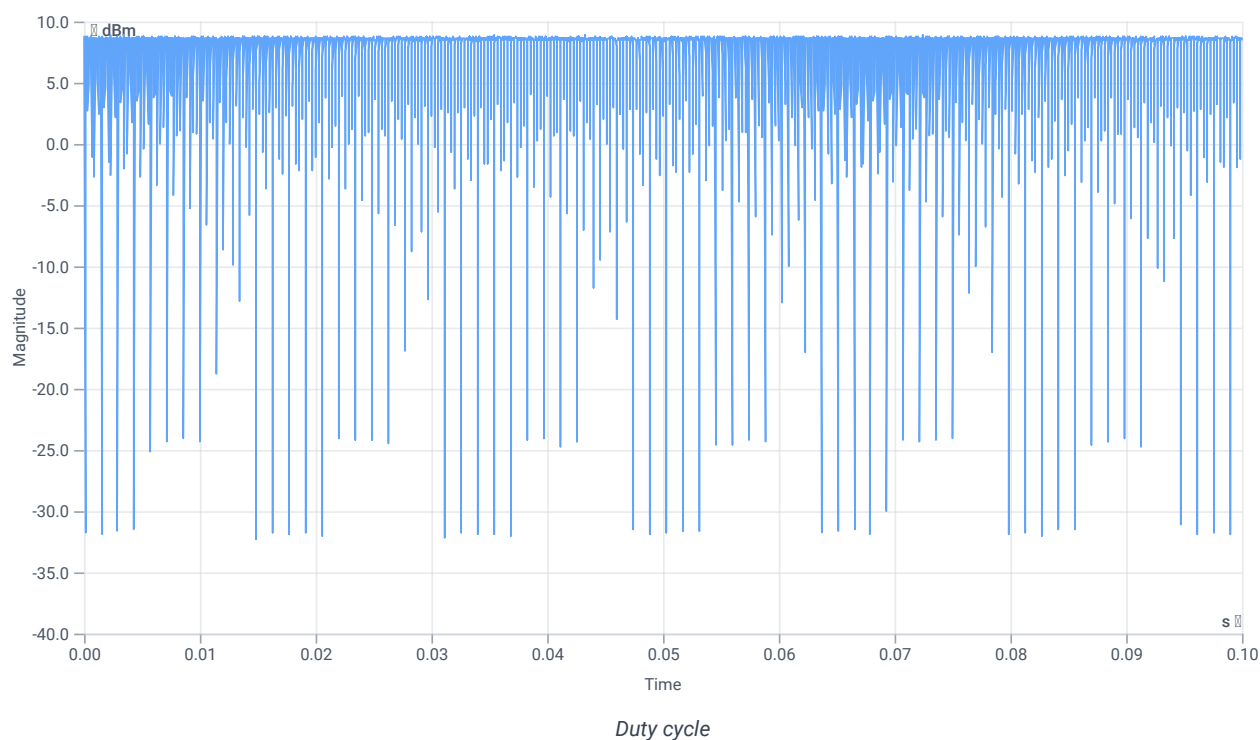
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.81     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5531.600 | MHz  | INFO    |

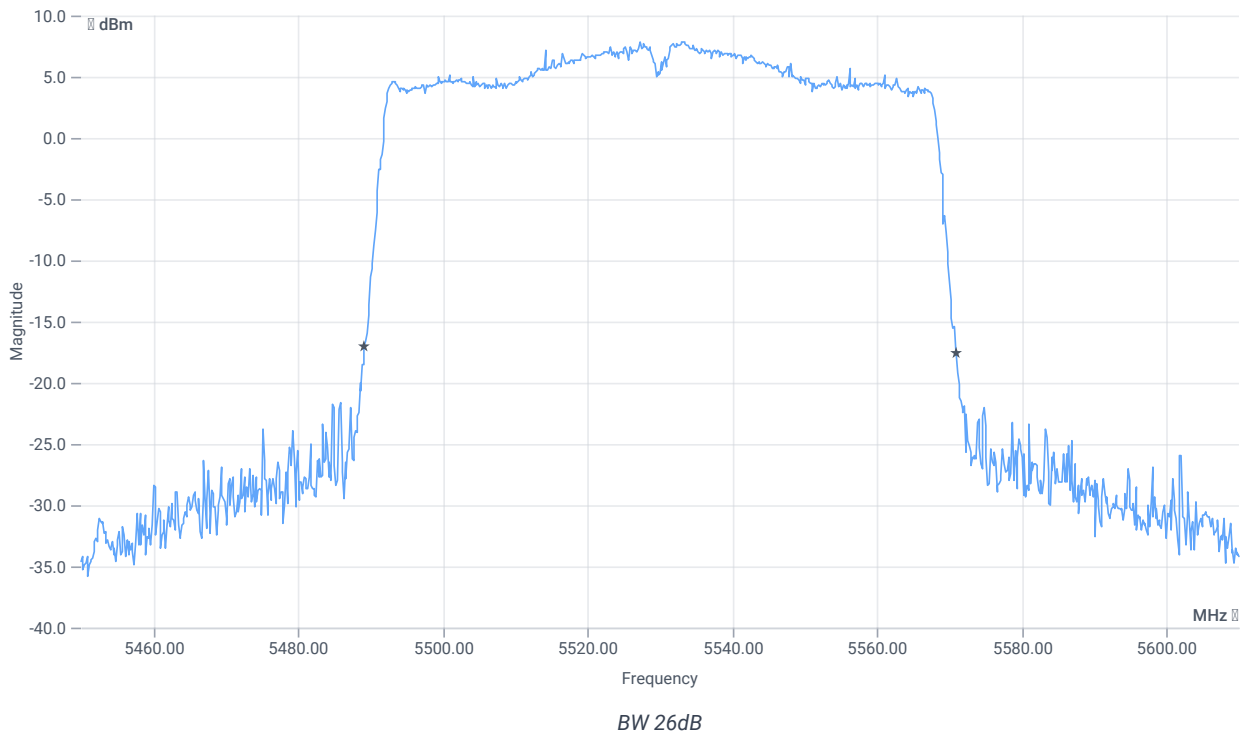
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                |             |             |          |      |         |
| Number of detected Bursts:155 |             |             |          |      |         |
| Duty Cycle (Burst Ratio) max  | ---         | ---         | 0.912    | ---  | INFO    |
| Duty Cycle max                | ---         | ---         | 0.4      | dB   | INFO    |
| Duty Cycle (Burst Ratio) min  | ---         | ---         | 0.727    | ---  | INFO    |
| Duty Cycle min                | ---         | ---         | 1.385    | dB   | INFO    |
| Max TX Burst Length           | ---         | ---         | 0.775    | ms   | INFO    |
| Min Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |



## Evaluation Bandwidth



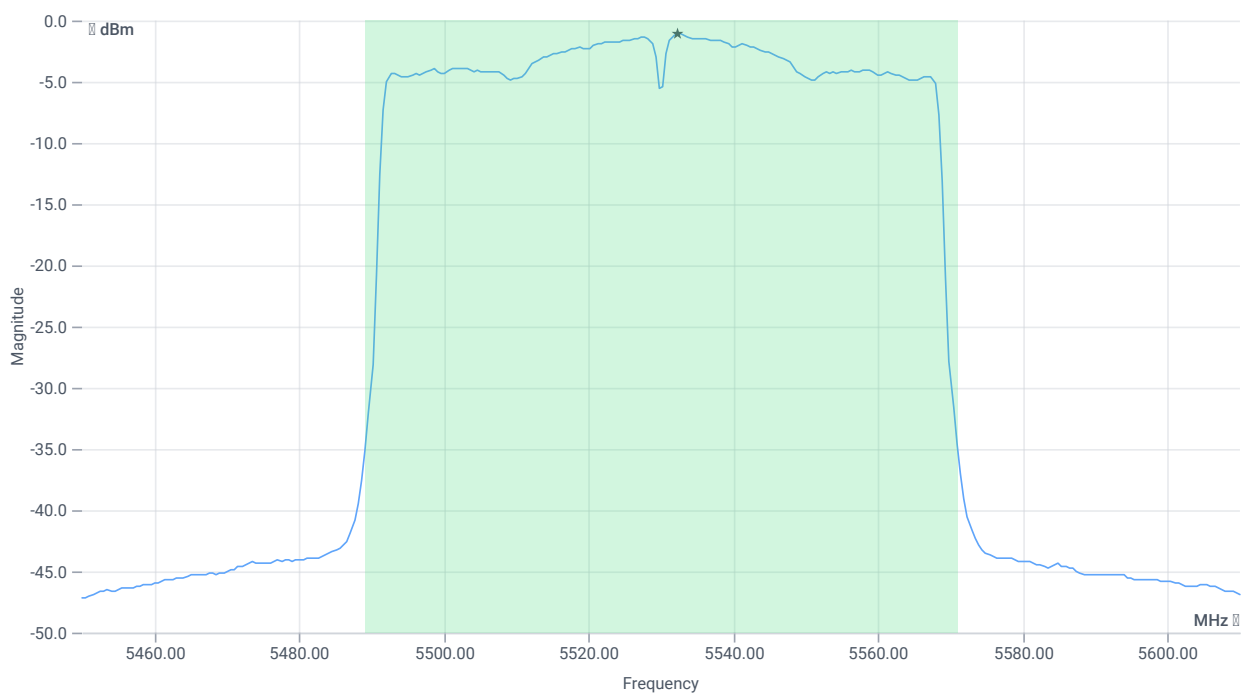
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 81.76     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5489.2000 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5570.9600 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.81   16.87   20     |
| Start [MHz]   Stop [MHz]                             | 5450.000   5610.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



Max OP and PSD

## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 15.41    | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 1.38     | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 24          | 16.79    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 81.76  |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 30.13       | 16.79    | dBm  | PASS    |

## Power Spectral Density

## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral Density              | ---         | ---         | -1.11    | dBm/1MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 1.38     | dB       | INFO    |
| Power Spectral Density DC corrected | ---         | 11          | 0.27     | dBm/1MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 19.01.2024 11:57:47                                    |
| Ambit temp [°C]   humidity [rel%] | 22.2   28                                              |
| System version                    | 4.7.1.5                                                |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                           |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN       |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                        |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5530                 |
| Frequency mid to test                            | False   Freq [MHz] 5610                |
| Frequency high to test                           | False   Freq [MHz] 5690                |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

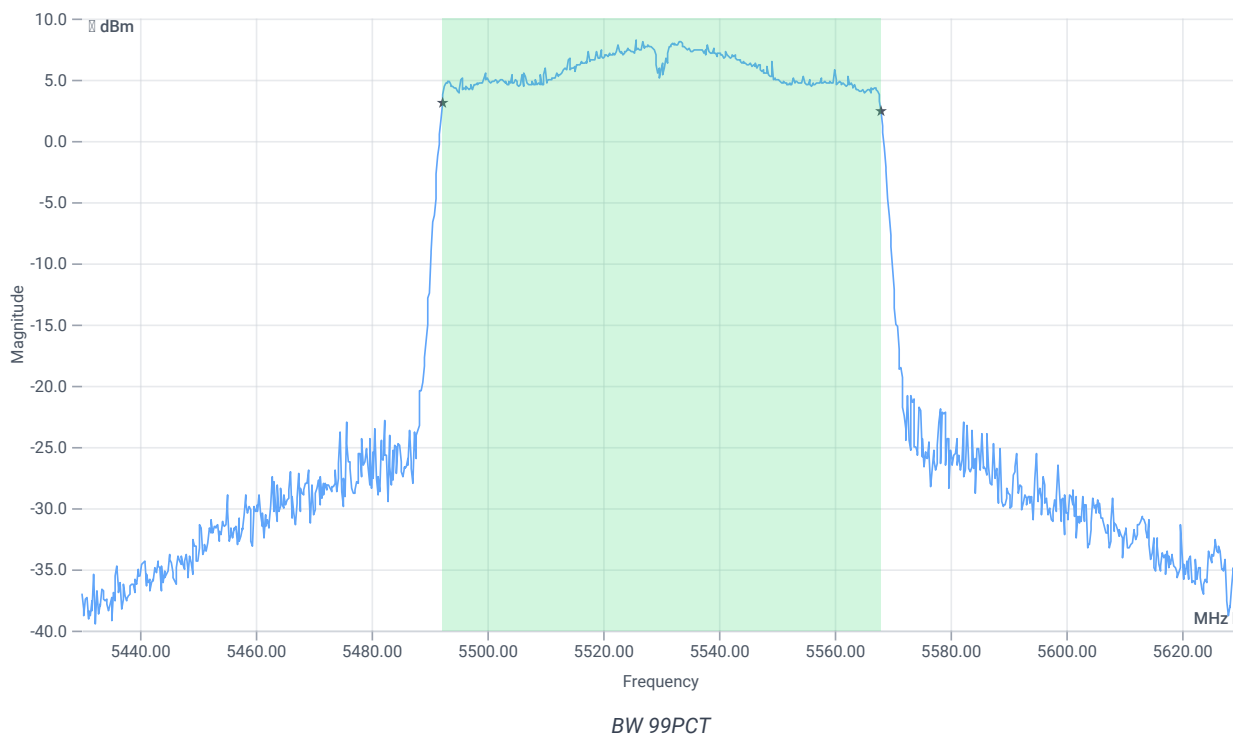
## Test at TX 5530 MHz

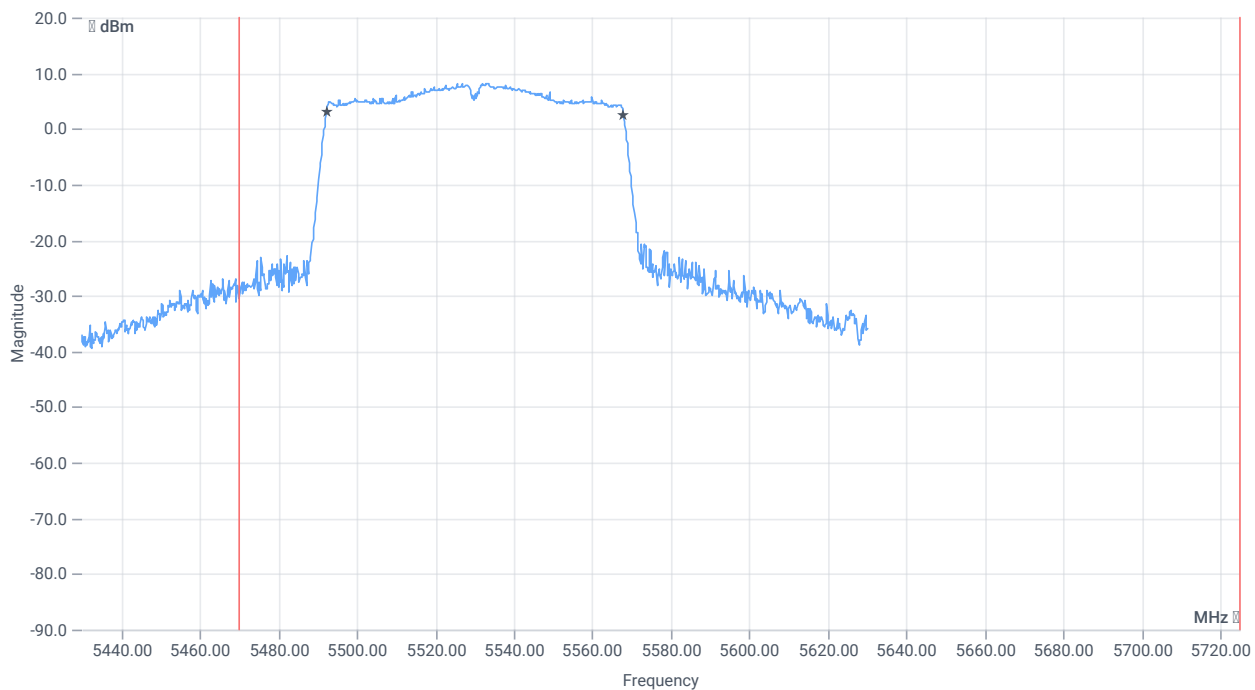
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.37     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5531.600 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.37   16.87   15    |
| Start [MHz]   Stop [MHz]                             | 5430.000   5630.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

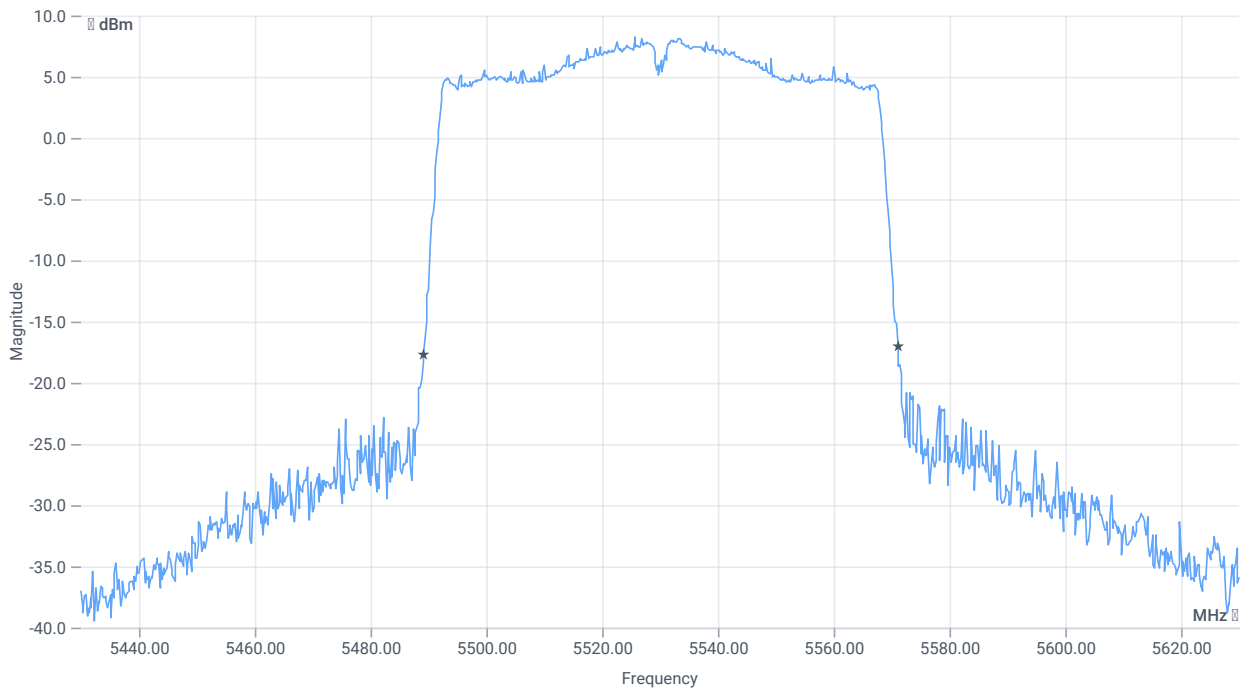




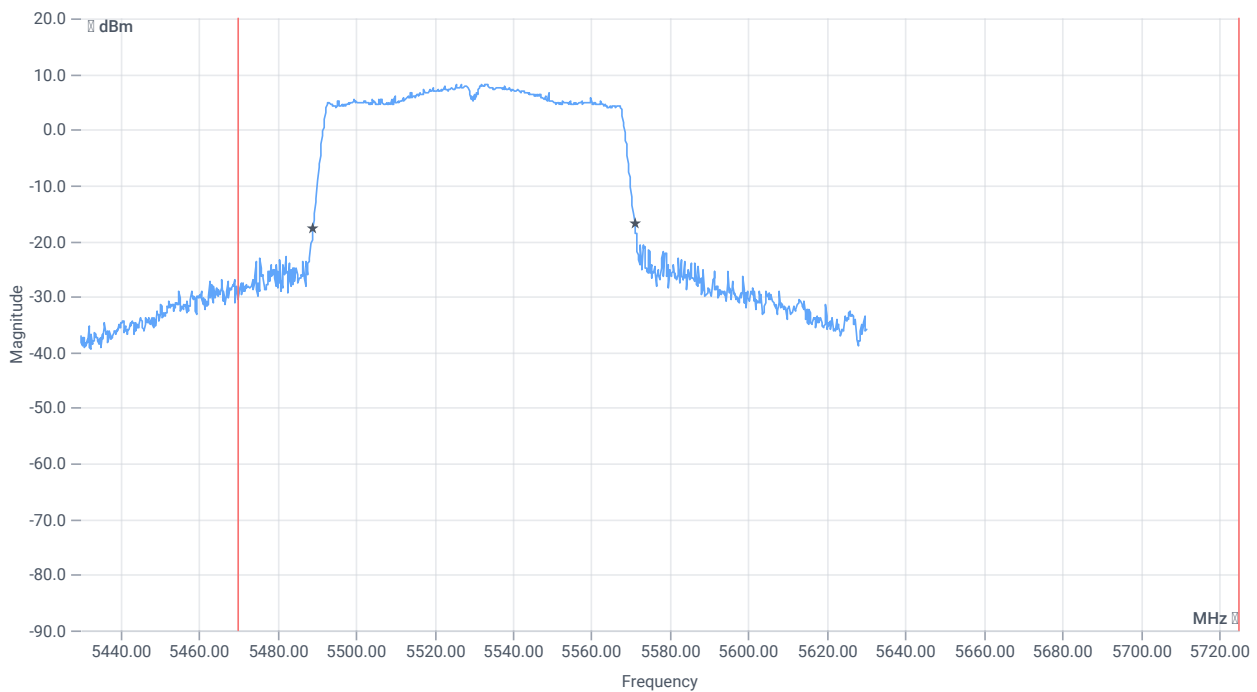
*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|---------------|-------------|-------------|-----------|------|---------------------------------|
| Bandwidth 99% | ---         | ---         | 75.724    | MHz  | INFO                            |
| T1 99%        | 5470.000000 | ---         | 5492.2378 | MHz  | PASS since U-NII-3 is supported |
| T2 99%        | ---         | 5725.000000 | 5567.9620 | MHz  |                                 |



BW 26dB



BW within Band 26dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 81.8     | MHz  | INFO    |

## RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|-------------|-------------|-------------|-----------|------|---------------------------------|
| T1 26dB     | 5470.000000 | ---         | 5489.2000 | MHz  | PASS since U-NII-3 is supported |
| T2 26dB     | ---         | 5725.000000 | 5571.0000 | MHz  |                                 |

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| TC start                          | 19.01.2024 11:58:23                                                |
| Ambit temp [°C]   humidity [rel%] | 22.2   28                                                          |
| System version                    | 4.7.1.5                                                            |
| Standard   Version                | FCC 15.407   NI                                                    |
| Method                            | KDB789033 D02, F., E.2.e.                                          |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                                    |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5530                 |
| Frequency mid to test                            | False   Freq [MHz] 5610                |
| Frequency high to test                           | False   Freq [MHz] 5690                |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5530 MHz

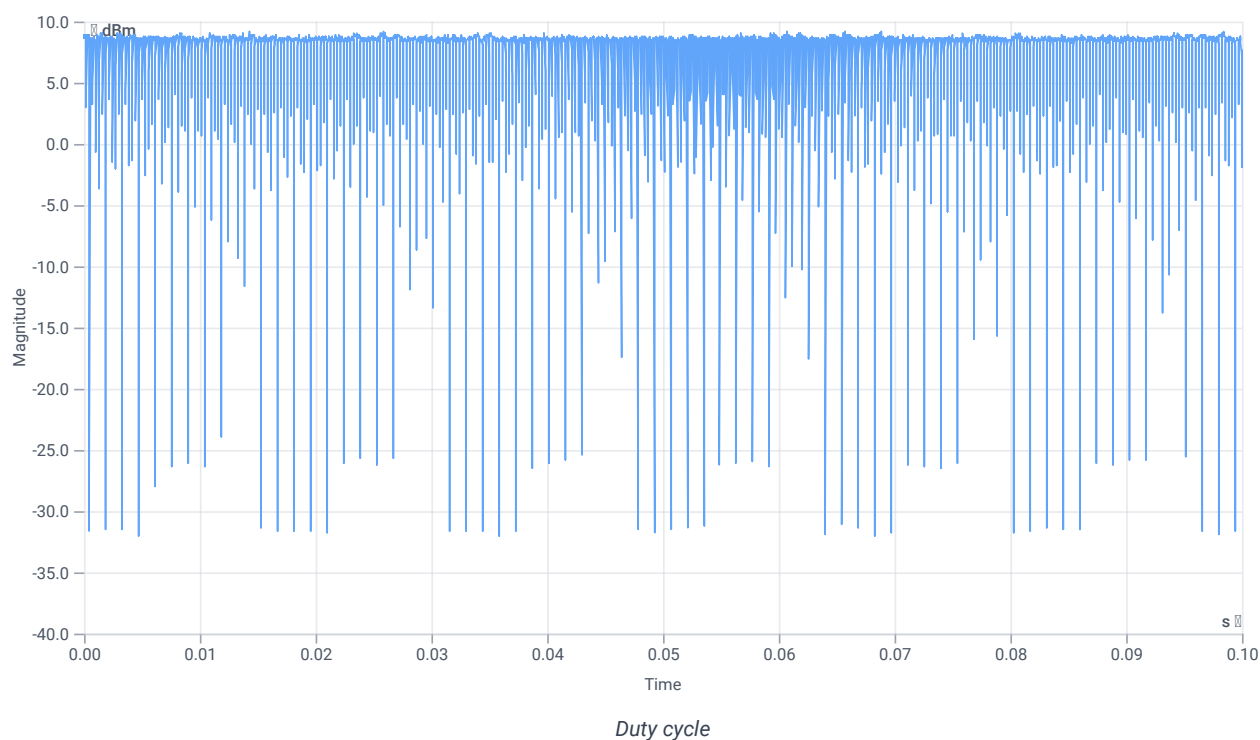
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.86     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5531.600 | MHz  | INFO    |

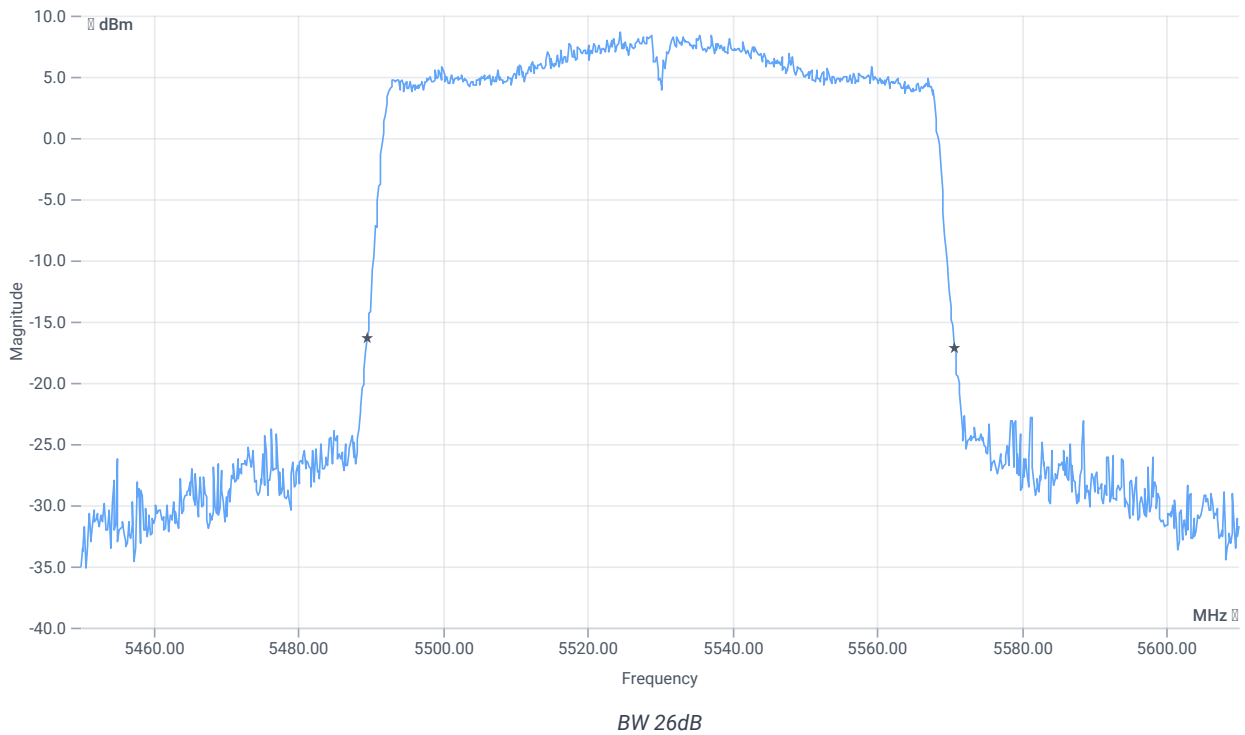
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                  |             |             |          |      |         |
| Number of detected Bursts:160   |             |             |          |      |         |
| Duty Cycle (Burst<br>Ratio) max | ---         | ---         | 0.912    | ---  | INFO    |
| Duty Cycle max                  | ---         | ---         | 0.4      | dB   | INFO    |
| Duty Cycle (Burst<br>Ratio) min | ---         | ---         | 0.727    | ---  | INFO    |
| Duty Cycle min                  | ---         | ---         | 1.385    | dB   | INFO    |
| Max TX Burst Length             | ---         | ---         | 0.775    | ms   | INFO    |
| Min Gap Length                  | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                  | ---         | ---         | 0.075    | ms   | INFO    |



## Evaluation Bandwidth



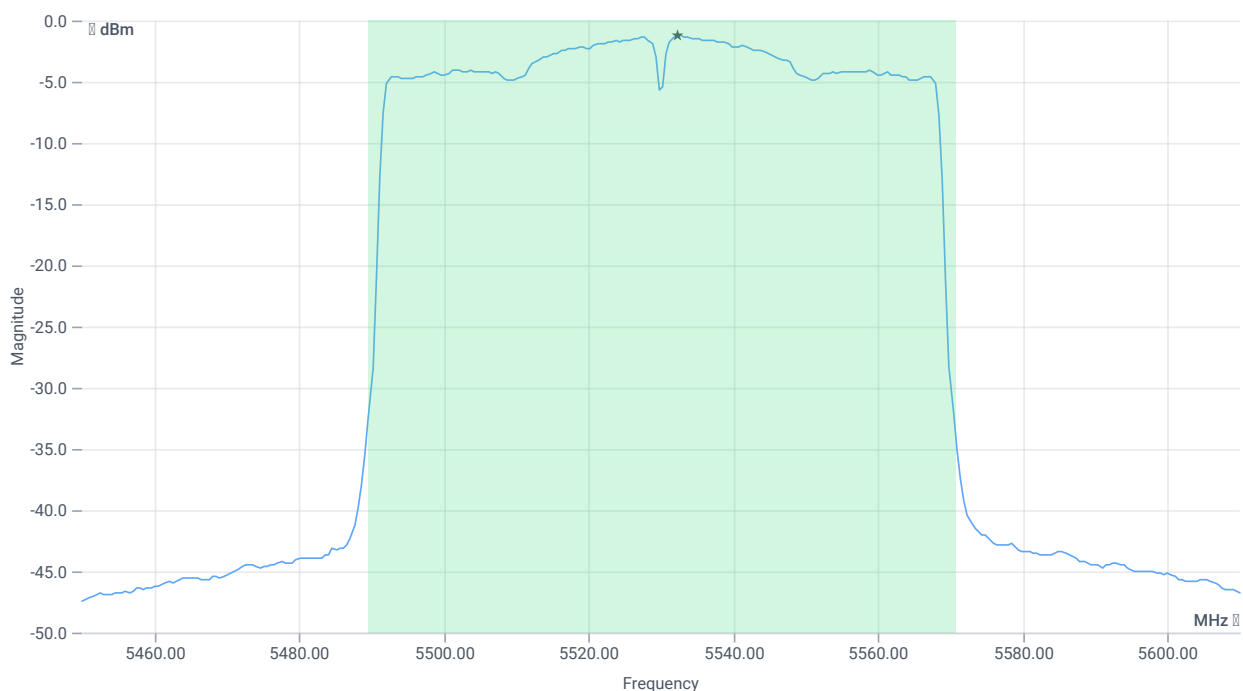
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 81.12     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5489.5200 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5570.6400 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.86   16.87   20     |
| Start [MHz]   Stop [MHz]                             | 5450.000   5610.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



Max OP and PSD

## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 15.34    | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 1.38     | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 24          | 16.72    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 81.12  |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 30.09       | 16.72    | dBm  | PASS    |

## Power Spectral Density

## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral Density              | ---         | ---         | -1.21    | dBm/1MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 1.38     | dB       | INFO    |
| Power Spectral Density DC corrected | ---         | 11          | 0.17     | dBm/1MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 19.01.2024 12:00:50                                    |
| Ambit temp [°C]   humidity [rel%] | 22.2   28                                              |
| System version                    | 4.7.1.5                                                |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                           |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN       |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                        |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5530                 |
| Frequency mid to test                            | False   Freq [MHz] 5610                |
| Frequency high to test                           | False   Freq [MHz] 5690                |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

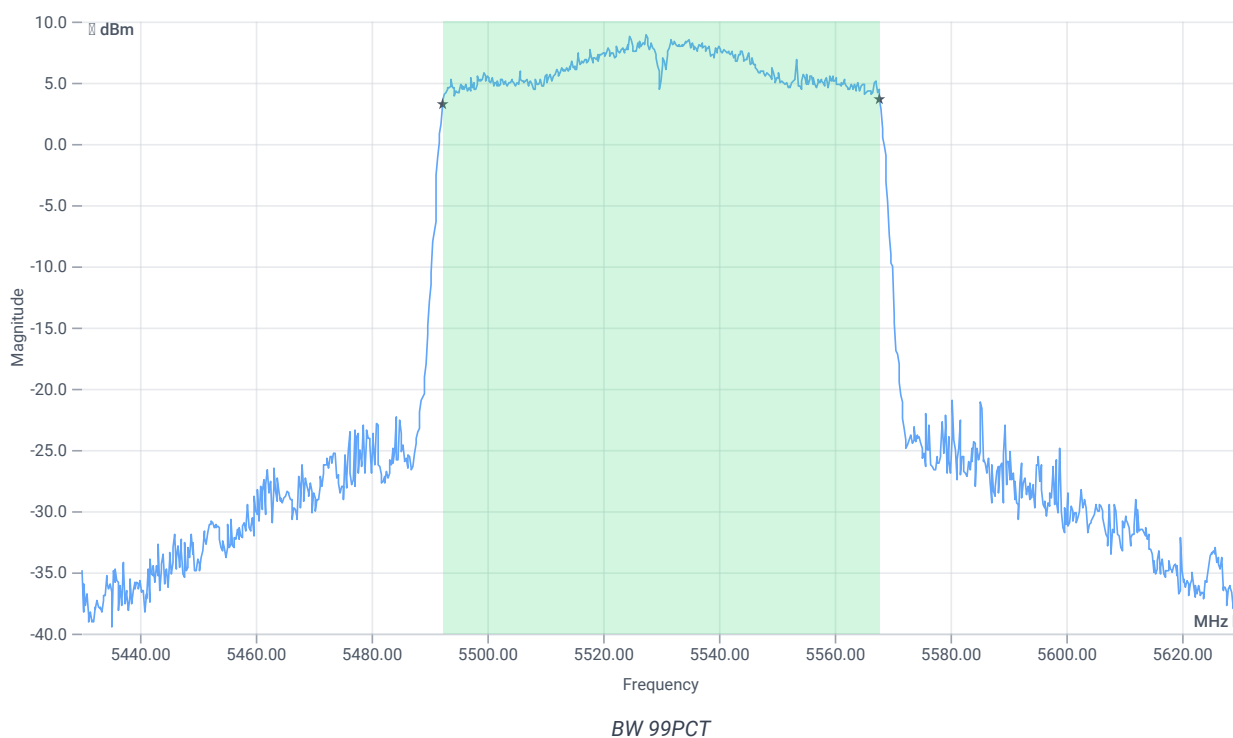
## Test at TX 5530 MHz

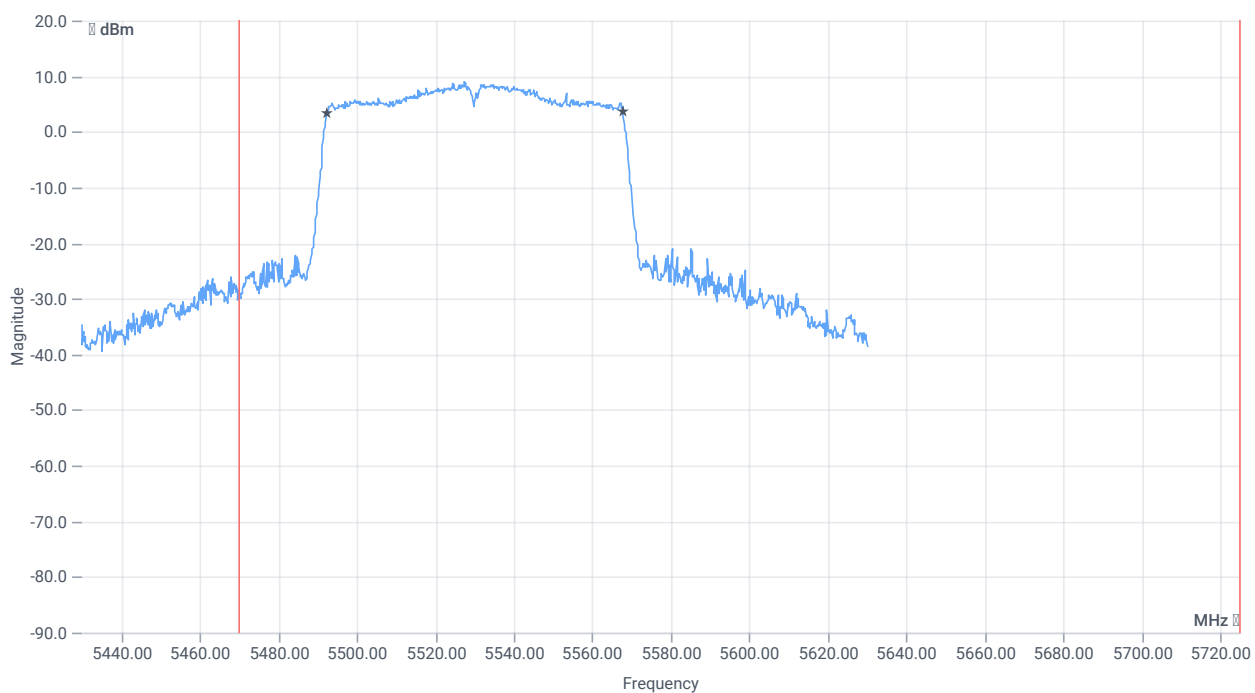
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.69     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5519.610 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.69   16.87   15    |
| Start [MHz]   Stop [MHz]                             | 5430.000   5630.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

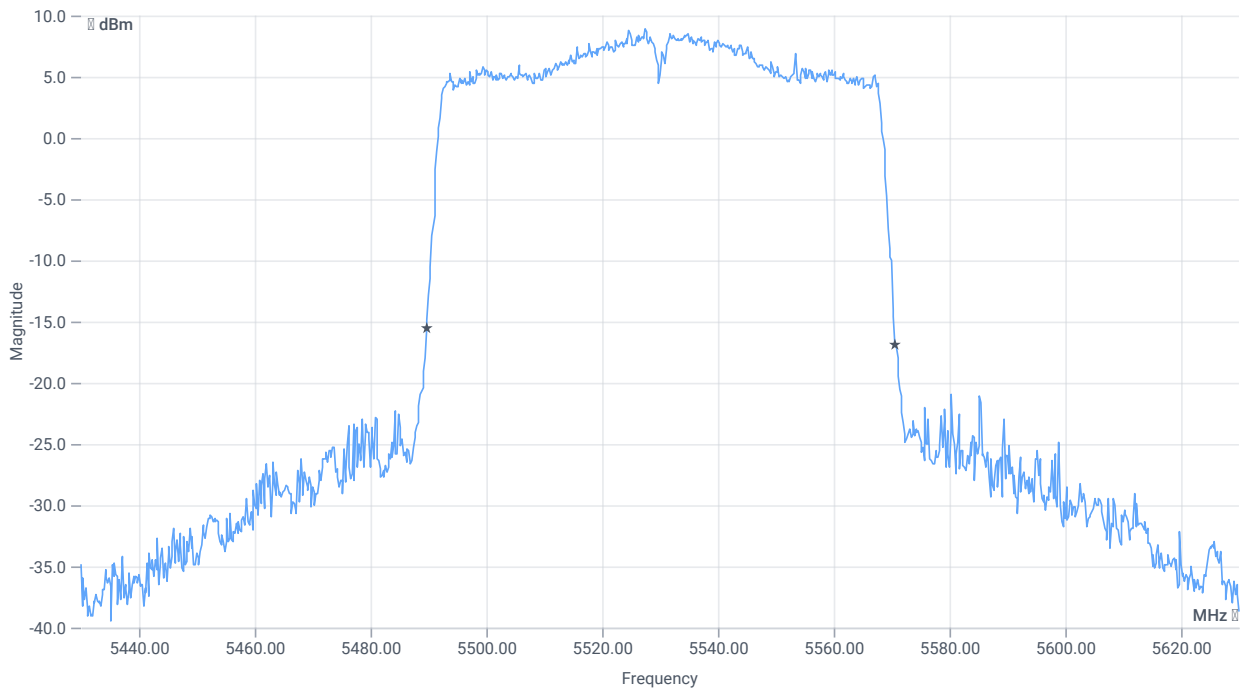




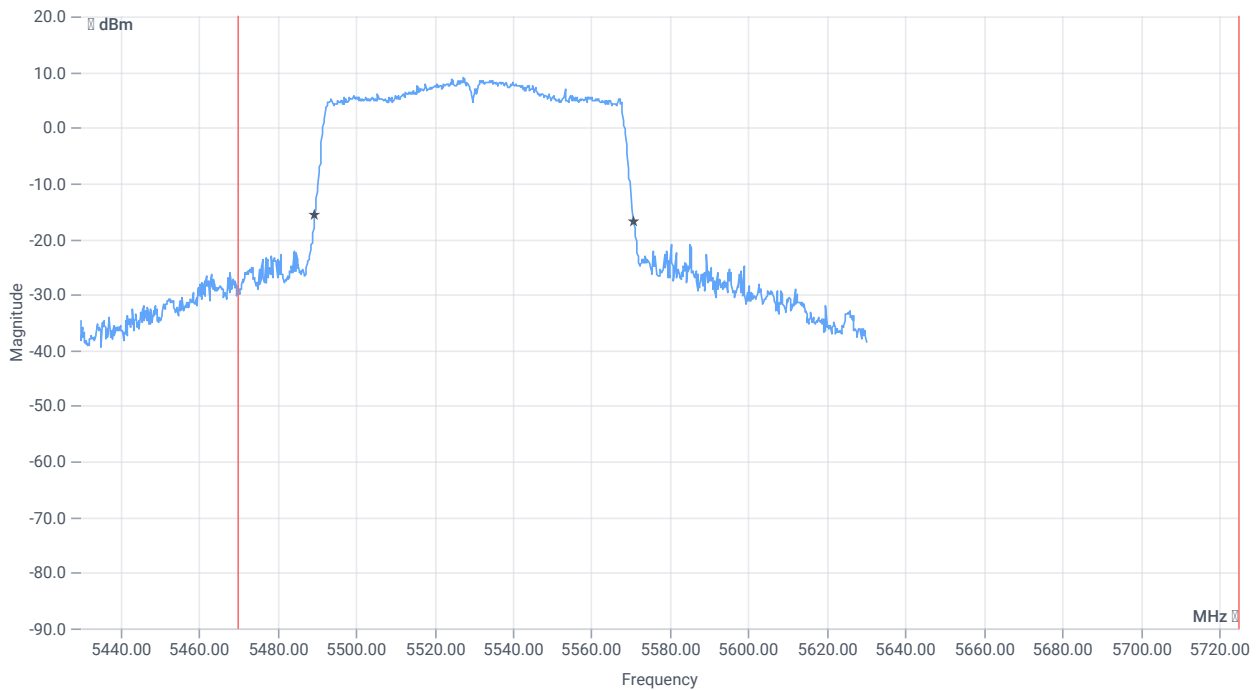
*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|---------------|-------------|-------------|-----------|------|---------------------------------|
| Bandwidth 99% | ---         | ---         | 75.524    | MHz  | INFO                            |
| T1 99%        | 5470.000000 | ---         | 5492.2378 | MHz  | PASS since U-NII-3 is supported |
| T2 99%        | ---         | 5725.000000 | 5567.7622 | MHz  |                                 |



*BW 26dB*



*BW within Band 26dB*

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 81       | MHz  | INFO    |

## RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|-------------|-------------|-------------|-----------|------|---------------------------------|
| T1 26dB     | 5470.000000 | ---         | 5489.6000 | MHz  | PASS since U-NII-3 is supported |
| T2 26dB     | ---         | 5725.000000 | 5570.6000 | MHz  |                                 |

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                                |
|-----------------------------------|----------------------------------------------------------------|
| TC start                          | 19.01.2024 12:01:27                                            |
| Ambit temp [°C]   humidity [rel%] | 22.2   28                                                      |
| System version                    | 4.7.1.5                                                        |
| Standard   Version                | FCC 15.407   NI                                                |
| Method                            |                                                                |
| Description                       | MIMO $\Sigma$ FCC Power & psd - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                                |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode   |
| Antenna port used                                | several                 |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | True   Freq [MHz] 5530  |
| Frequency mid to test                            | False   Freq [MHz] 5610 |
| Frequency high to test                           | False   Freq [MHz] 5690 |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 1.4                     |
| Full path name   type                            | None                    |

### Equipment

## Test at TX 5530 MHz

### RESULT Power

| DESCRIPTION                           | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------------|-------------|-------------|----------|------|---------|
| Ant:1 Max Output Power DC corrected   | ---         | ---         | 16.79    | dBm  | INFO    |
| Ant:1 BW 26dB                         | ---         | ---         | 81.760   | MHz  | INFO    |
| Ant:2 Max Output Power DC corrected   | ---         | ---         | 16.72    | dBm  | INFO    |
| Ant:2 BW 26dB                         | ---         | ---         | 81.120   | MHz  | INFO    |
| $\Sigma$ Limit absolute               | ---         | 24          | 19.77    | dBm  | PASS    |
| $\Sigma$ Limit: 11 dBm + 10 log 81.12 | ---         | 30.09       | 19.77    | dBm  | PASS    |

### RESULT PSD

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------|-------------|-------------|----------|----------|---------|
| Ant:1 PSD   | ---         | ---         | 0.27     | dBm/1MHz | INFO    |
| Ant:2 PSD   | ---         | ---         | 0.17     | dBm/1MHz | INFO    |
| $\Sigma$    | ---         | 11          | 3.23     | dBm/1MHz | PASS    |

### Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| TC start                          | 19.01.2024 12:07:04                                                |
| Ambit temp [°C]   humidity [rel%] | 22.2   29                                                          |
| System version                    | 4.7.1.5                                                            |
| Standard   Version                | FCC 15.407   NI                                                    |
| Method                            | KDB789033 D02, F., E.2.e.                                          |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                                    |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5530                |
| Frequency mid to test                            | True   Freq [MHz] 5610                 |
| Frequency high to test                           | False   Freq [MHz] 5690                |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5610 MHz

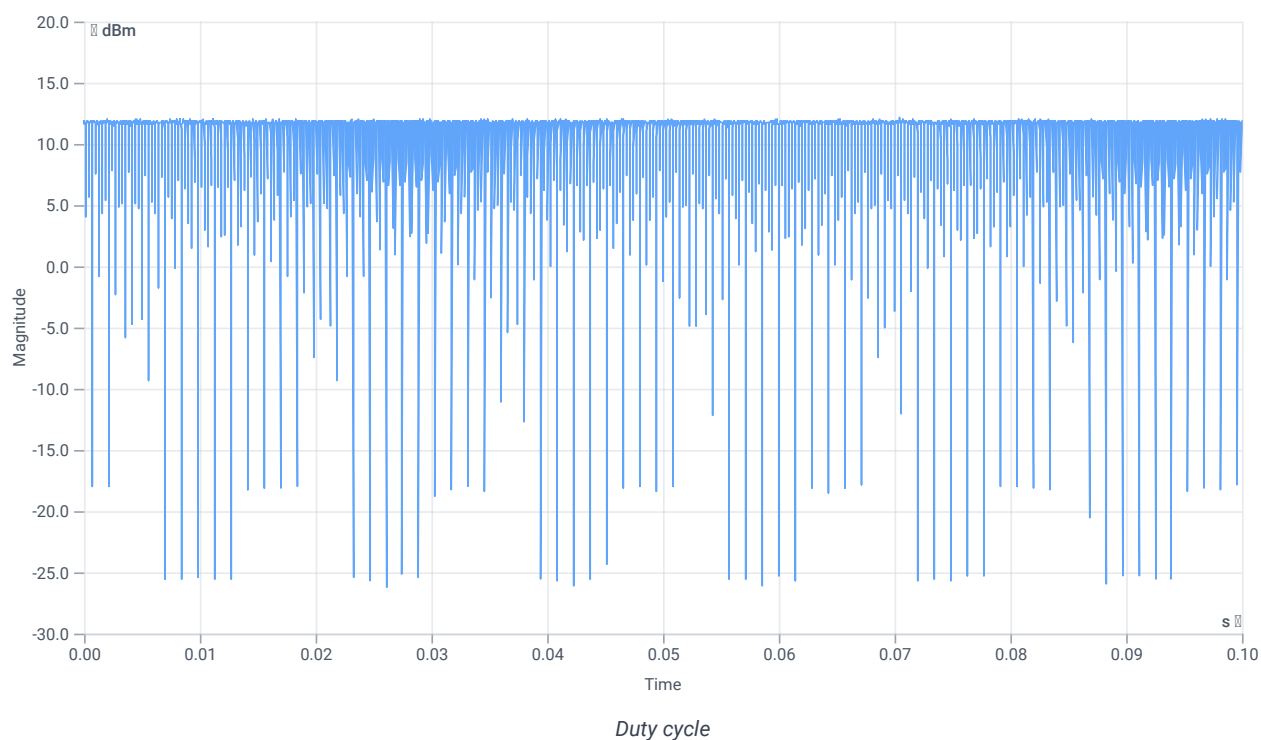
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 10.73    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5582.630 | MHz  | INFO    |

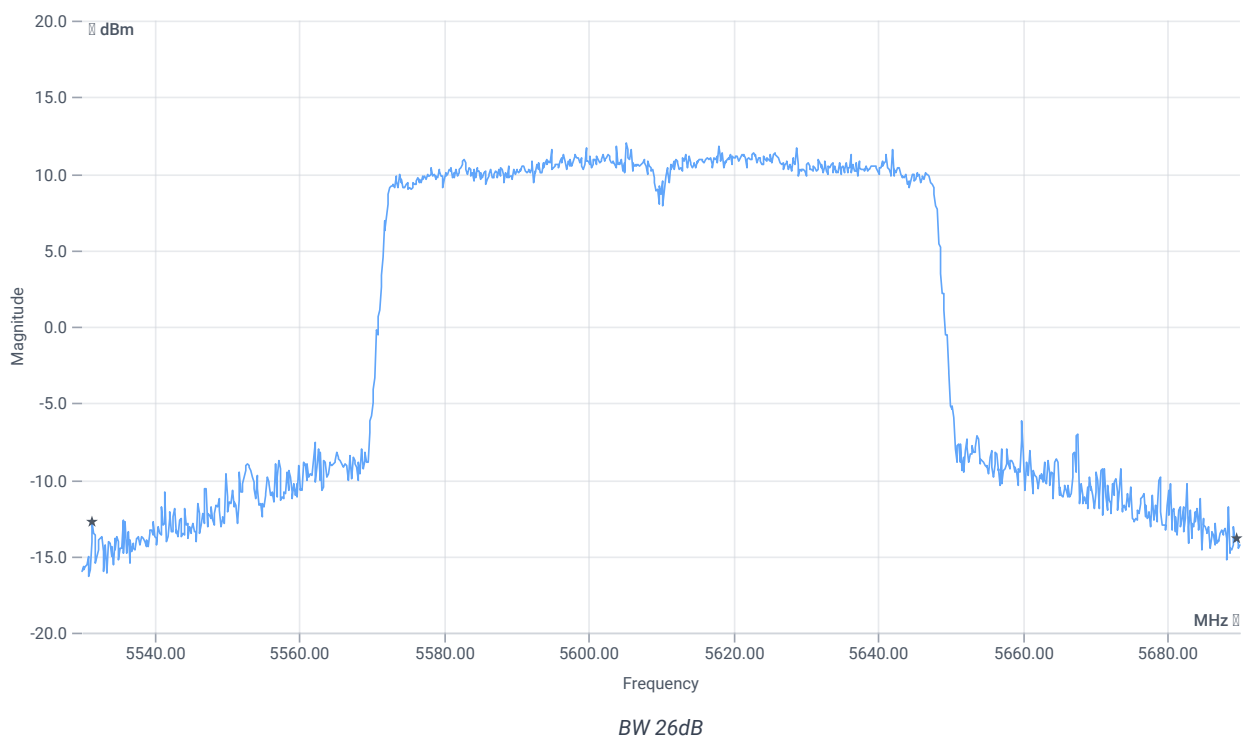
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                  |             |             |          |      |         |
| Number of detected Bursts:131   |             |             |          |      |         |
| Duty Cycle (Burst<br>Ratio) max | ---         | ---         | 0.947    | ---  | INFO    |
| Duty Cycle max                  | ---         | ---         | 0.237    | dB   | INFO    |
| Duty Cycle (Burst<br>Ratio) min | ---         | ---         | 0.87     | ---  | INFO    |
| Duty Cycle min                  | ---         | ---         | 0.605    | dB   | INFO    |
| Max TX Burst Length             | ---         | ---         | 1.35     | ms   | INFO    |
| Min Gap Length                  | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                  | ---         | ---         | 0.075    | ms   | INFO    |



## Evaluation Bandwidth



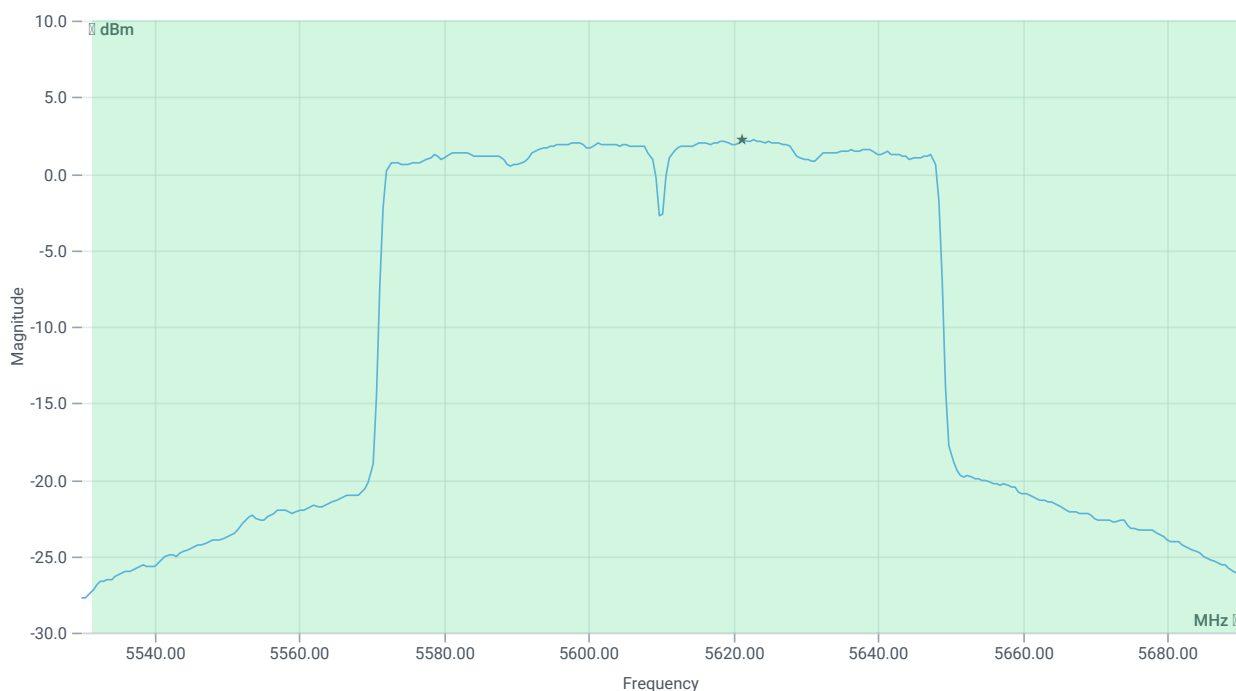
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 158.08    | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5531.4400 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5689.5200 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 22.73   16.72   25     |
| Start [MHz]   Stop [MHz]                             | 5530.000   5690.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



Max OP and PSD

## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 19.99    | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 0.6      | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 24          | 20.59    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 158.08 |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 32.99       | 20.59    | dBm  | PASS    |

## Power Spectral Density

## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral Density              | ---         | ---         | 2.2      | dBm/1MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 0.6      | dB       | INFO    |
| Power Spectral Density DC corrected | ---         | 11          | 2.8      | dBm/1MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 19.01.2024 12:09:31                                    |
| Ambit temp [°C]   humidity [rel%] | 22.2   29                                              |
| System version                    | 4.7.1.5                                                |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                           |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN       |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                        |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5530                |
| Frequency mid to test                            | True   Freq [MHz] 5610                 |
| Frequency high to test                           | False   Freq [MHz] 5690                |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

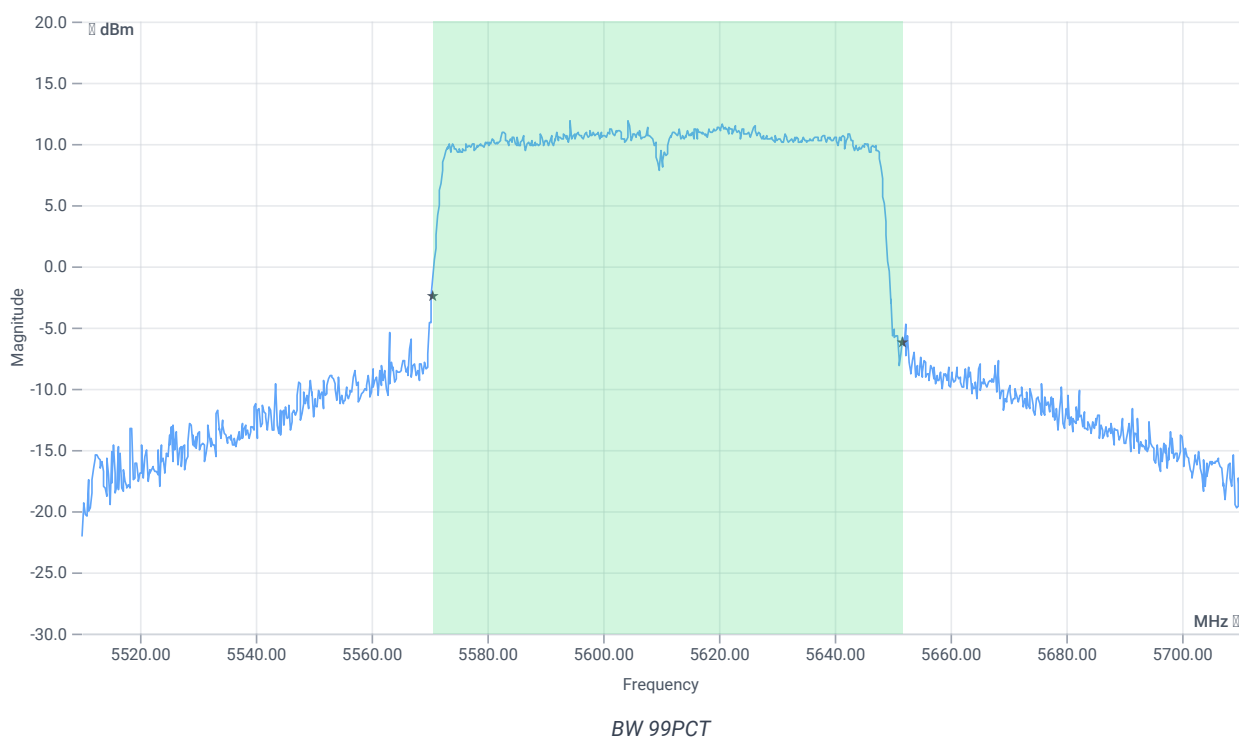
## Test at TX 5610 MHz

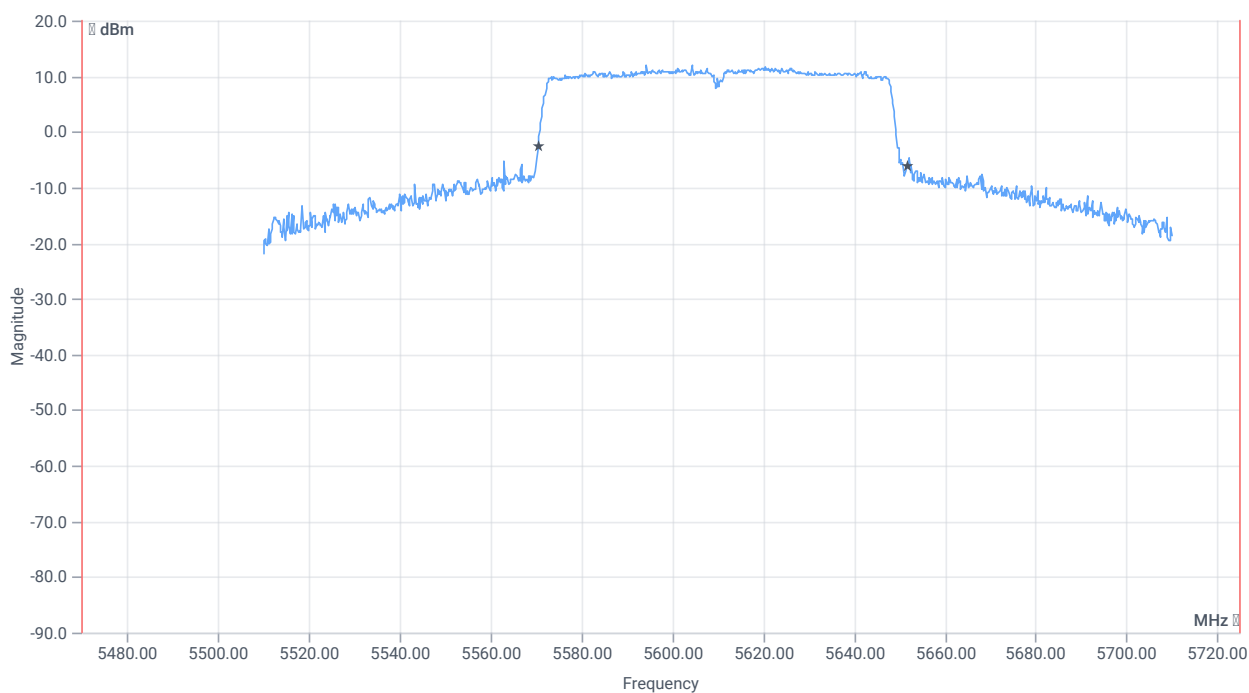
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 11.02    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5622.590 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.02   16.72   20    |
| Start [MHz]   Stop [MHz]                             | 5510.000   5710.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

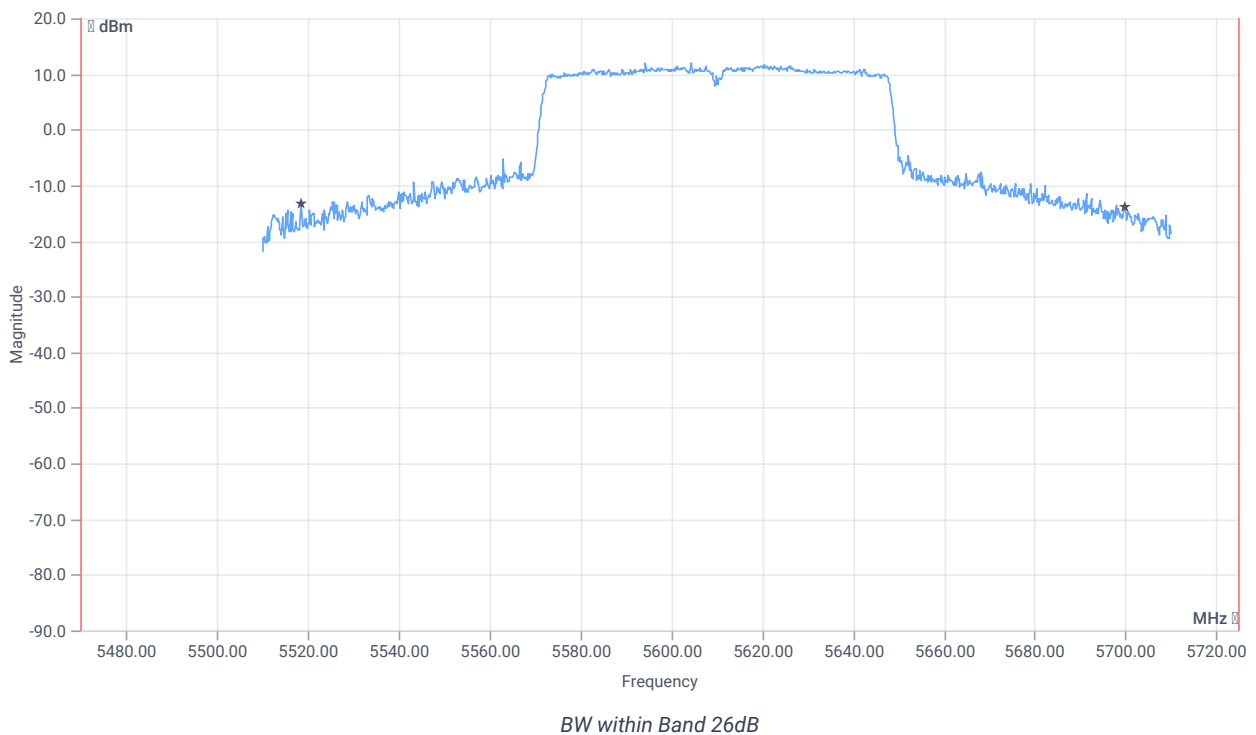
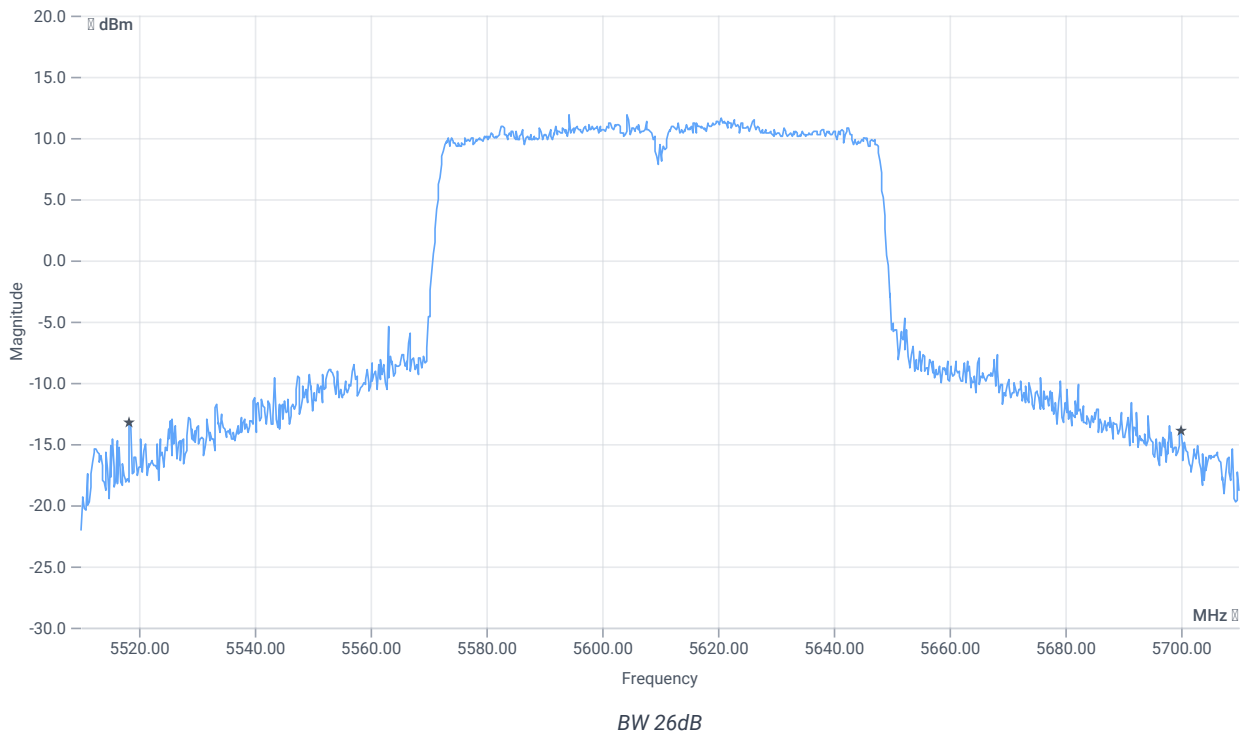




*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|---------------|-------------|-------------|-----------|------|---------------------------------|
| Bandwidth 99% | ---         | ---         | 81.319    | MHz  | INFO                            |
| T1 99%        | 5470.000000 | ---         | 5570.4396 | MHz  | PASS since U-NII-3 is supported |
| T2 99%        | ---         | 5725.000000 | 5651.7582 | MHz  |                                 |



## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 181.6    | MHz  | INFO    |

## RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|-------------|-------------|-------------|-----------|------|---------------------------------|
| T1 26dB     | 5470.000000 | ---         | 5518.4000 | MHz  | PASS since U-NII-3 is supported |
| T2 26dB     | ---         | 5725.000000 | 5700.0000 | MHz  |                                 |

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| TC start                          | 19.01.2024 12:10:07                                                |
| Ambit temp [°C]   humidity [rel%] | 22.2   29                                                          |
| System version                    | 4.7.1.5                                                            |
| Standard   Version                | FCC 15.407   NI                                                    |
| Method                            | KDB789033 D02, F., E.2.e.                                          |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                                    |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5530                |
| Frequency mid to test                            | True   Freq [MHz] 5610                 |
| Frequency high to test                           | False   Freq [MHz] 5690                |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5610 MHz

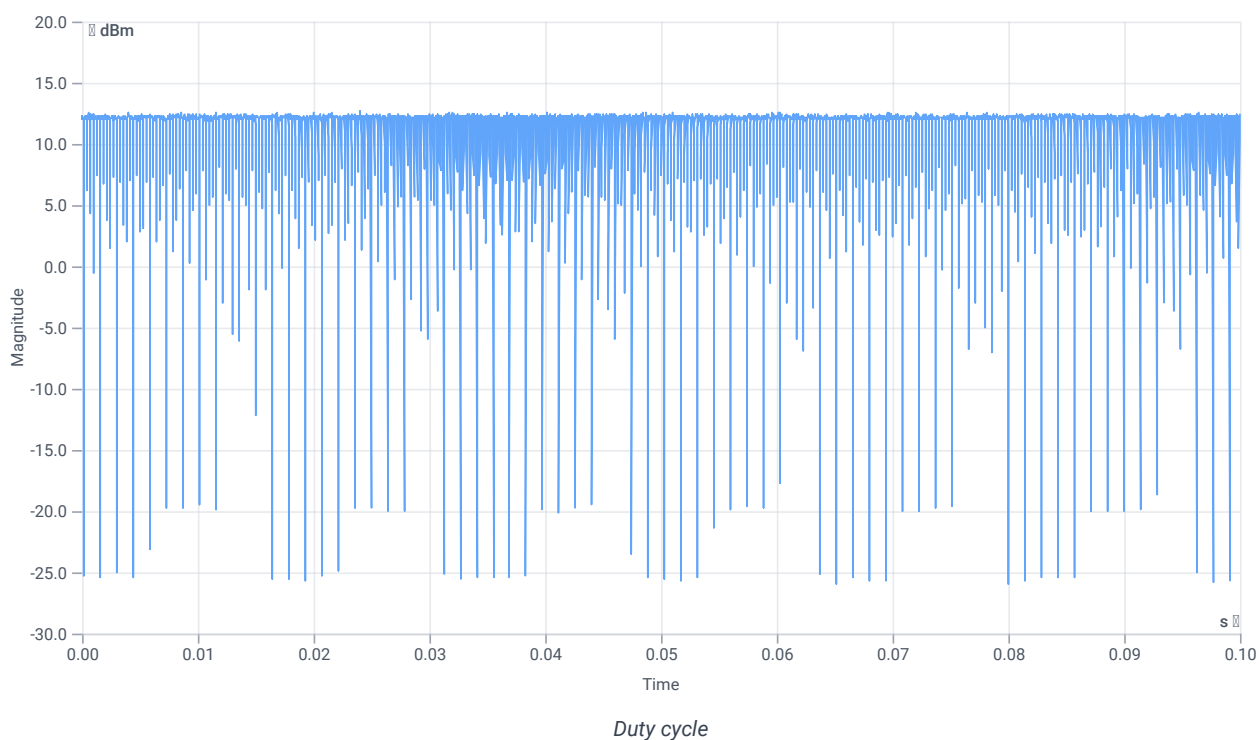
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 11.48    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5608.200 | MHz  | INFO    |

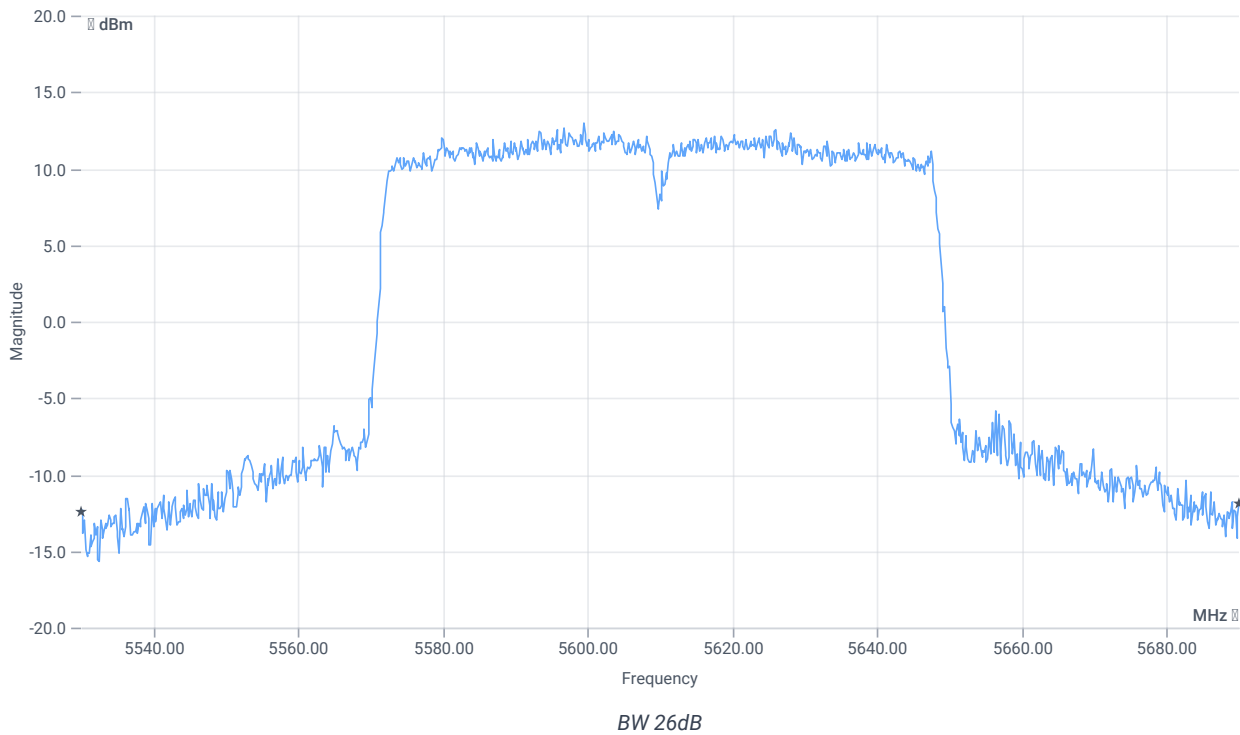
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                |             |             |          |      |         |
| Number of detected Bursts:137 |             |             |          |      |         |
| Duty Cycle (Burst Ratio) max  | ---         | ---         | 0.947    | ---  | INFO    |
| Duty Cycle max                | ---         | ---         | 0.237    | dB   | INFO    |
| Duty Cycle (Burst Ratio) min  | ---         | ---         | 0.87     | ---  | INFO    |
| Duty Cycle min                | ---         | ---         | 0.605    | dB   | INFO    |
| Max TX Burst Length           | ---         | ---         | 1.35     | ms   | INFO    |
| Min Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |



## Evaluation Bandwidth



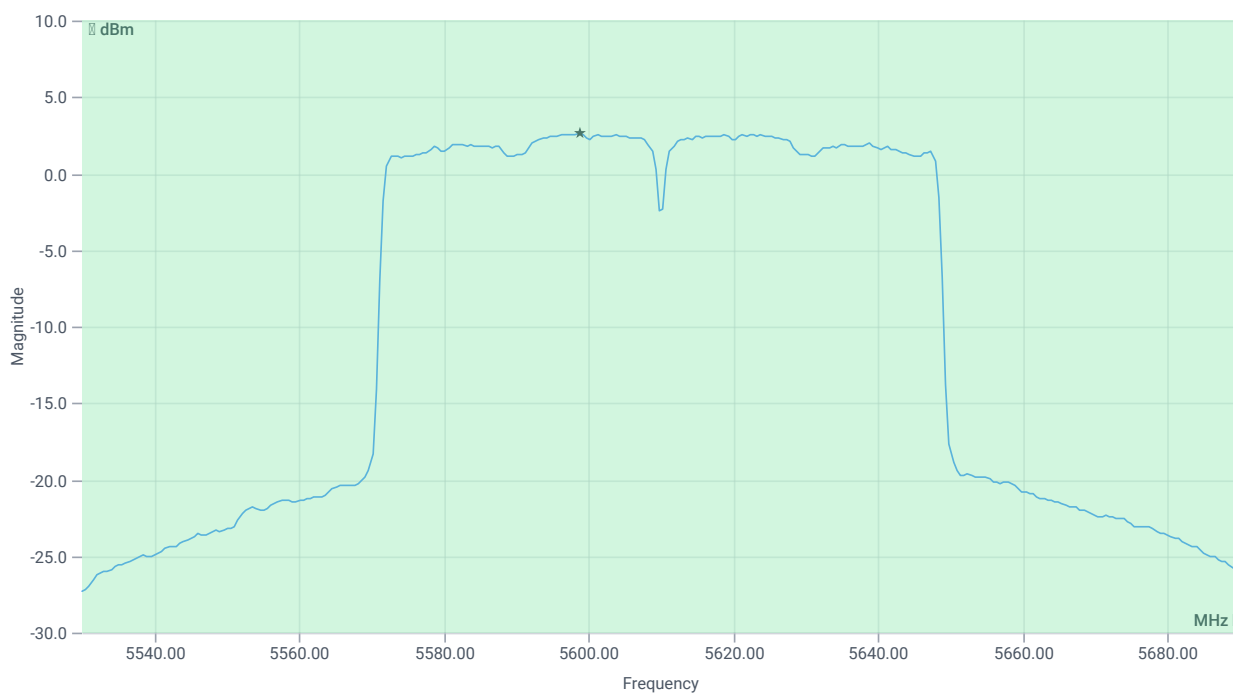
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 160       | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5530.0000 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5690.0000 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 23.48   16.72   25     |
| Start [MHz]   Stop [MHz]                             | 5530.000   5690.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



Max OP and PSD

## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 20.45    | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 0.6      | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 24          | 21.05    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 160    |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 33.04       | 21.05    | dBm  | PASS    |

## Power Spectral Density

## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral Density              | ---         | ---         | 2.65     | dBm/1MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 0.6      | dB       | INFO    |
| Power Spectral Density DC corrected | ---         | 11          | 3.25     | dBm/1MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 19.01.2024 12:12:34                                    |
| Ambit temp [°C]   humidity [rel%] | 22.2   29                                              |
| System version                    | 4.7.1.5                                                |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                           |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN       |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                        |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5530                |
| Frequency mid to test                            | True   Freq [MHz] 5610                 |
| Frequency high to test                           | False   Freq [MHz] 5690                |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

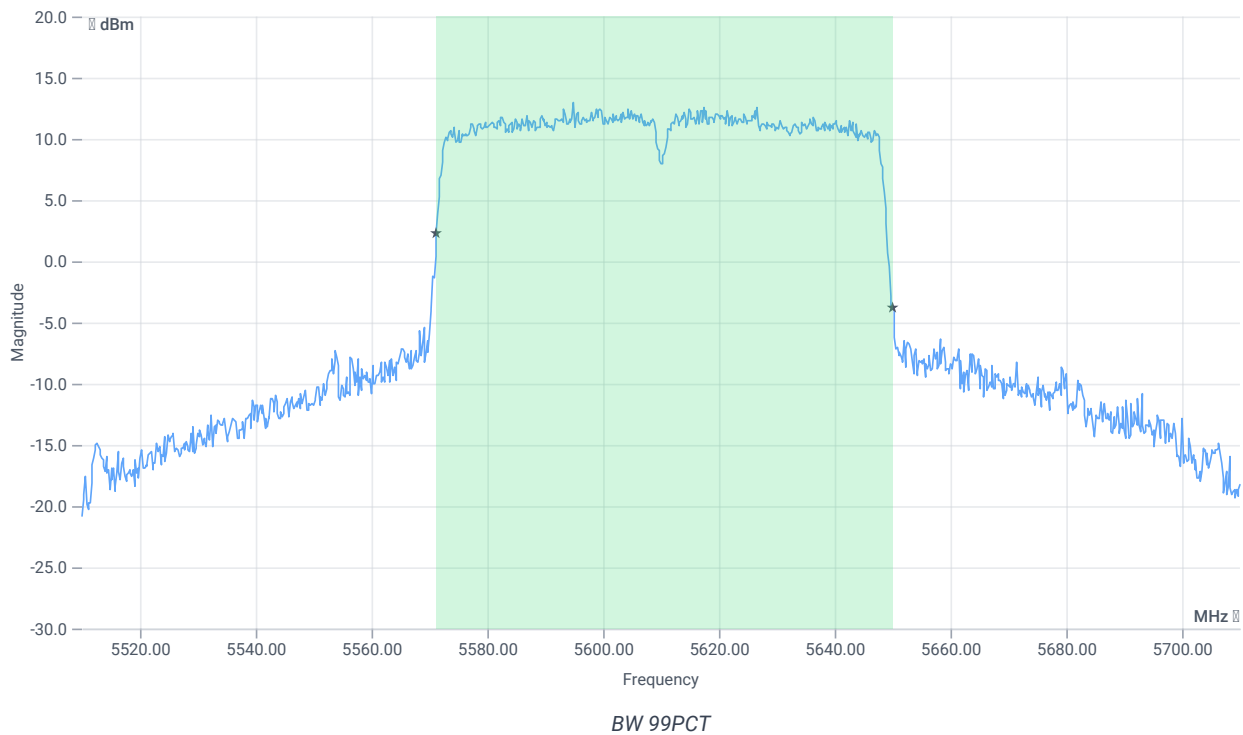
## Test at TX 5610 MHz

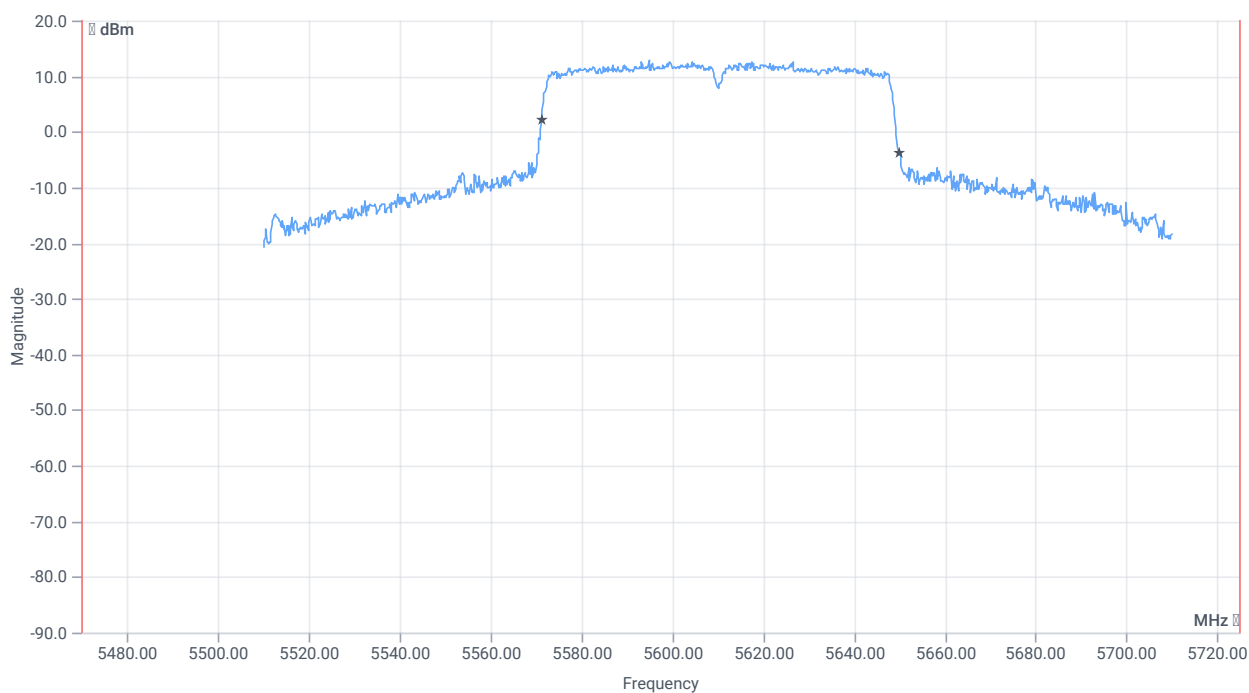
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 11.67    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5599.010 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.67   16.72   20    |
| Start [MHz]   Stop [MHz]                             | 5510.000   5710.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

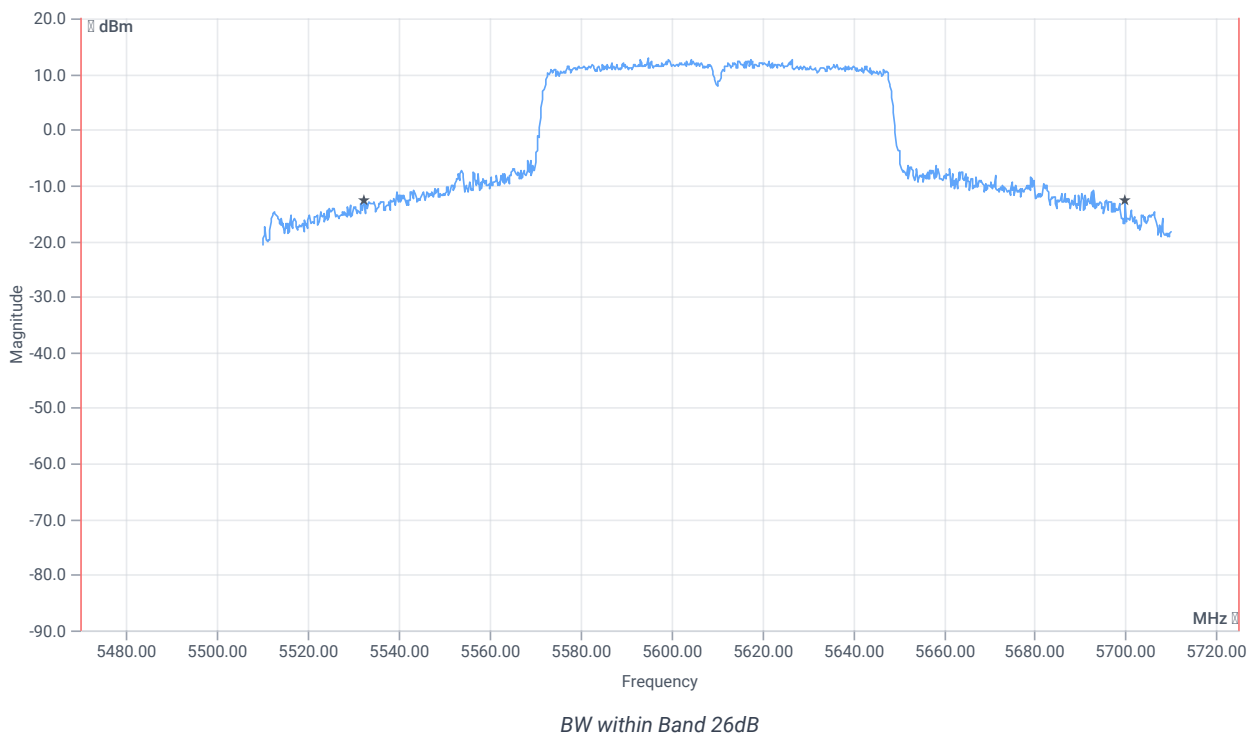
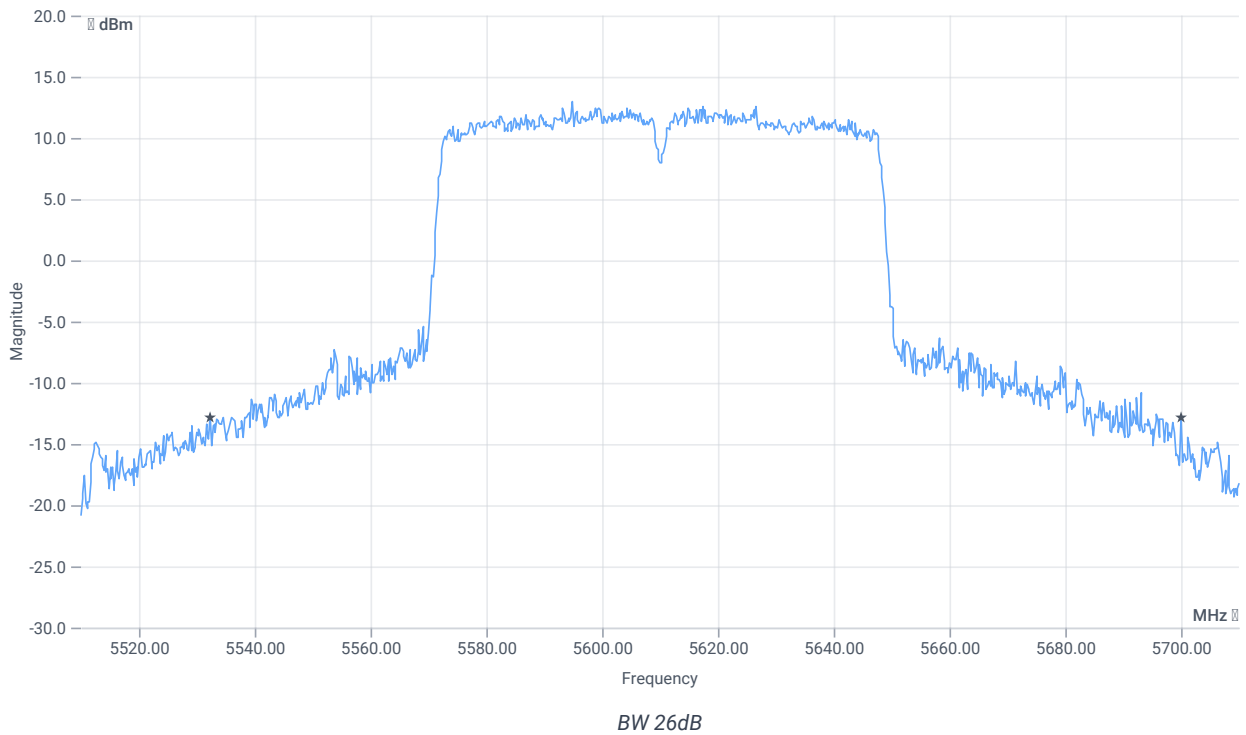




*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|---------------|-------------|-------------|-----------|------|---------------------------------|
| Bandwidth 99% | ---         | ---         | 78.721    | MHz  | INFO                            |
| T1 99%        | 5470.000000 | ---         | 5571.2388 | MHz  | PASS since U-NII-3 is supported |
| T2 99%        | ---         | 5725.000000 | 5649.9600 | MHz  |                                 |



## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 167.8    | MHz  | INFO    |

## RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|-------------|-------------|-------------|-----------|------|---------------------------------|
| T1 26dB     | 5470.000000 | ---         | 5532.2000 | MHz  | PASS since U-NII-3 is supported |
| T2 26dB     | ---         | 5725.000000 | 5700.0000 | MHz  |                                 |

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                                |
|-----------------------------------|----------------------------------------------------------------|
| TC start                          | 19.01.2024 12:13:10                                            |
| Ambit temp [°C]   humidity [rel%] | 22.2   29                                                      |
| System version                    | 4.7.1.5                                                        |
| Standard   Version                | FCC 15.407   NI                                                |
| Method                            |                                                                |
| Description                       | MIMO $\Sigma$ FCC Power & psd - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                                |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode   |
| Antenna port used                                | several                 |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | False   Freq [MHz] 5530 |
| Frequency mid to test                            | True   Freq [MHz] 5610  |
| Frequency high to test                           | False   Freq [MHz] 5690 |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 1.4                     |
| Full path name   type                            | None                    |

### Equipment

## Test at TX 5610 MHz

### RESULT Power

| DESCRIPTION                            | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------------------------------|-------------|-------------|----------|------|---------|
| Ant:1 Max Output Power DC corrected    | ---         | ---         | 20.59    | dBm  | INFO    |
| Ant:1 BW 26dB                          | ---         | ---         | 158.080  | MHz  | INFO    |
| Ant:2 Max Output Power DC corrected    | ---         | ---         | 21.05    | dBm  | INFO    |
| Ant:2 BW 26dB                          | ---         | ---         | 160.000  | MHz  | INFO    |
| $\Sigma$ Limit absolute                | ---         | 24          | 23.84    | dBm  | PASS    |
| $\Sigma$ Limit: 11 dBm + 10 log 158.08 | ---         | 32.99       | 23.84    | dBm  | PASS    |

### RESULT PSD

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------|-------------|-------------|----------|----------|---------|
| Ant:1 PSD   | ---         | ---         | 2.8      | dBm/1MHz | INFO    |
| Ant:2 PSD   | ---         | ---         | 3.25     | dBm/1MHz | INFO    |
| $\Sigma$    | ---         | 11          | 6.04     | dBm/1MHz | PASS    |

### Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| TC start                          | 22.01.2024 09:32:20                                                |
| Ambit temp [°C]   humidity [rel%] | 19.9   35                                                          |
| System version                    | 4.7.1.5                                                            |
| Standard   Version                | FCC 15.407   NI                                                    |
| Method                            | KDB789033 D02, F., E.2.e.                                          |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                                    |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5530                |
| Frequency mid to test                            | False   Freq [MHz] 5610                |
| Frequency high to test                           | True   Freq [MHz] 5690                 |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5690 MHz

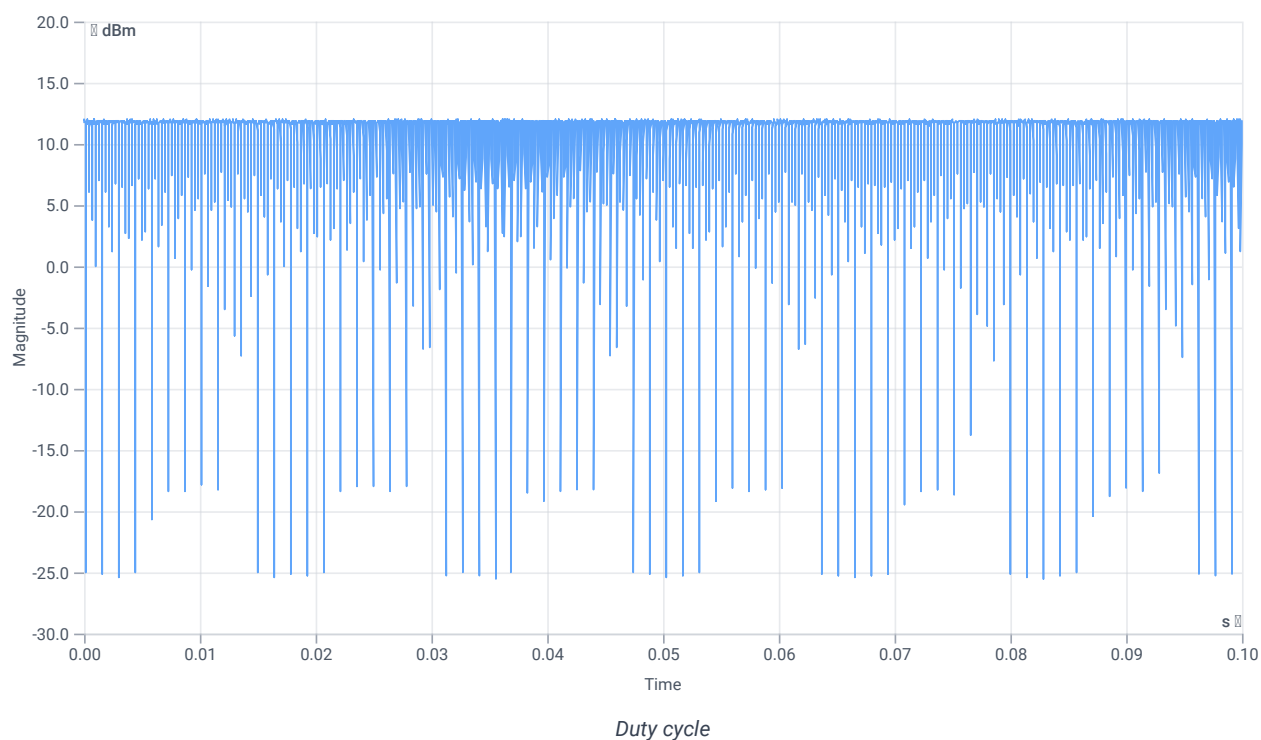
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 10.85    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5679.010 | MHz  | INFO    |

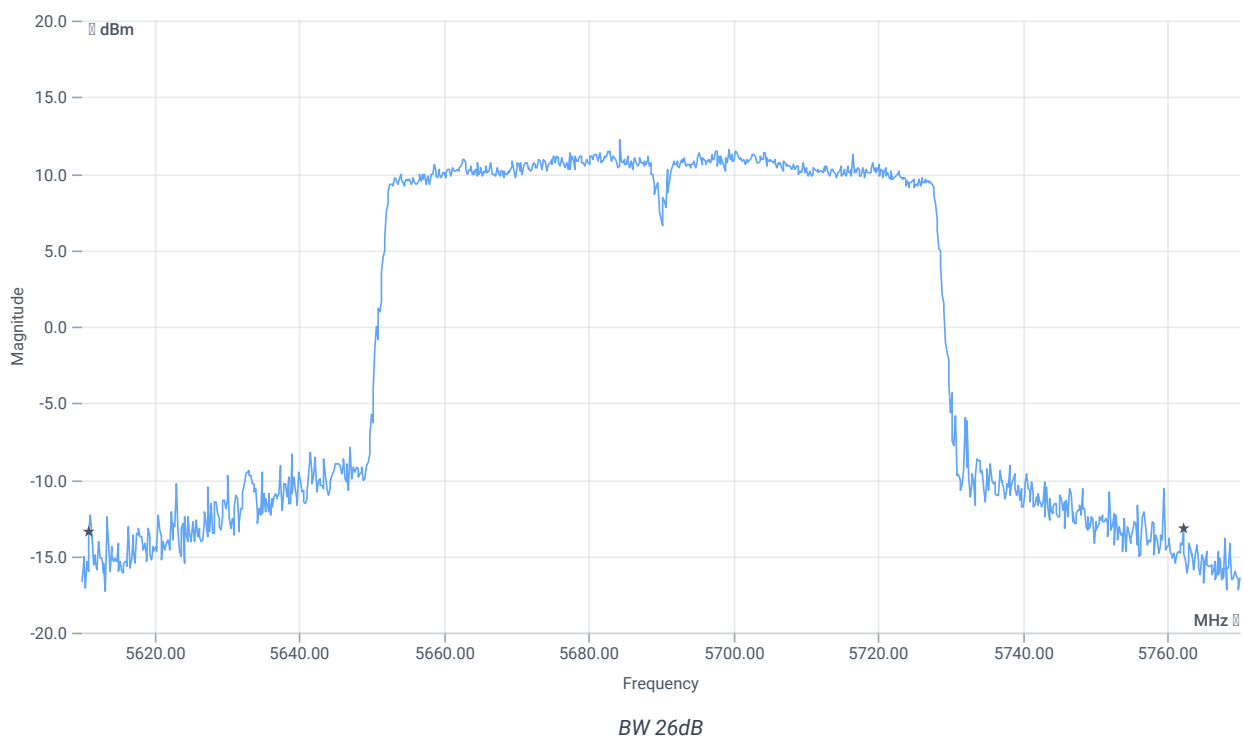
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                |             |             |          |      |         |
| Number of detected Bursts:131 |             |             |          |      |         |
| Duty Cycle (Burst Ratio) max  | ---         | ---         | 0.947    | ---  | INFO    |
| Duty Cycle max                | ---         | ---         | 0.237    | dB   | INFO    |
| Duty Cycle (Burst Ratio) min  | ---         | ---         | 0.87     | ---  | INFO    |
| Duty Cycle min                | ---         | ---         | 0.605    | dB   | INFO    |
| Max TX Burst Length           | ---         | ---         | 1.35     | ms   | INFO    |
| Min Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |



## Evaluation Bandwidth



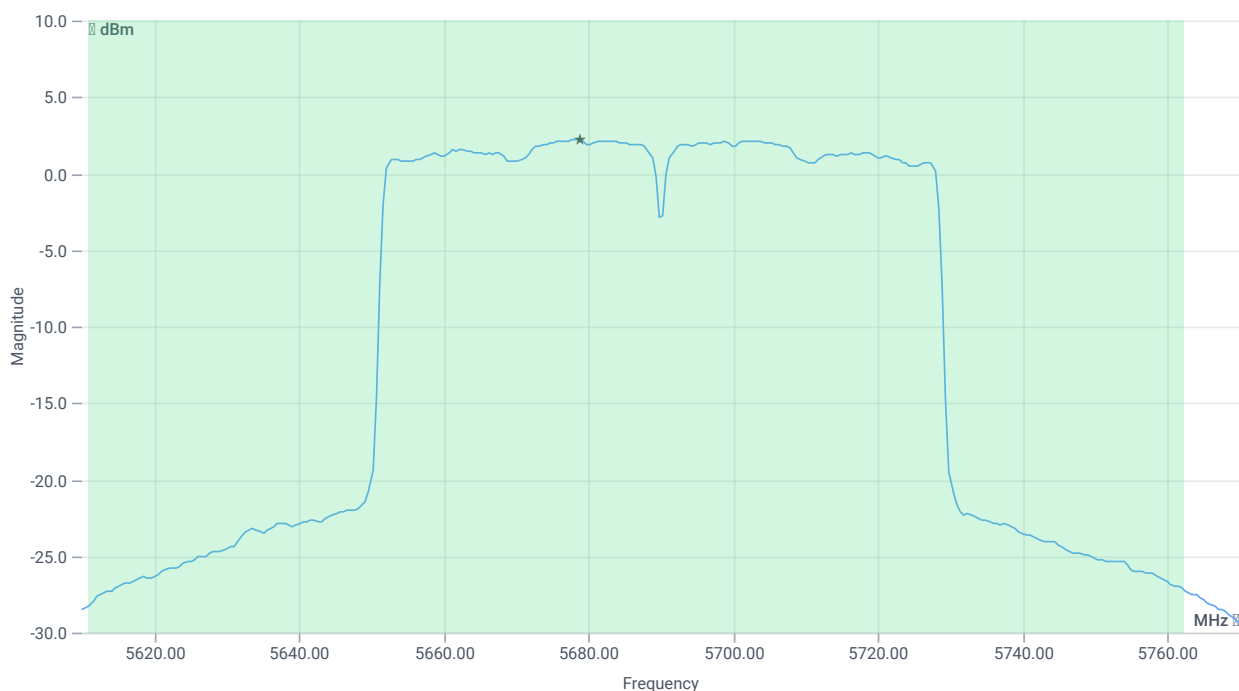
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 151.2     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5610.9600 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5762.1600 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 22.85   16.66   25     |
| Start [MHz]   Stop [MHz]                             | 5610.000   5770.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



Max OP and PSD

## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 20.01    | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 0.6      | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 24          | 20.61    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 151.2  |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 32.8        | 20.61    | dBm  | PASS    |

## Power Spectral Density

## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral Density              | ---         | ---         | 2.22     | dBm/1MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 0.6      | dB       | INFO    |
| Power Spectral Density DC corrected | ---         | 11          | 2.82     | dBm/1MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 22.01.2024 09:34:44                                    |
| Ambit temp [°C]   humidity [rel%] | 19.9   34                                              |
| System version                    | 4.7.1.5                                                |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                           |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN       |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                        |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5530                |
| Frequency mid to test                            | False   Freq [MHz] 5610                |
| Frequency high to test                           | True   Freq [MHz] 5690                 |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

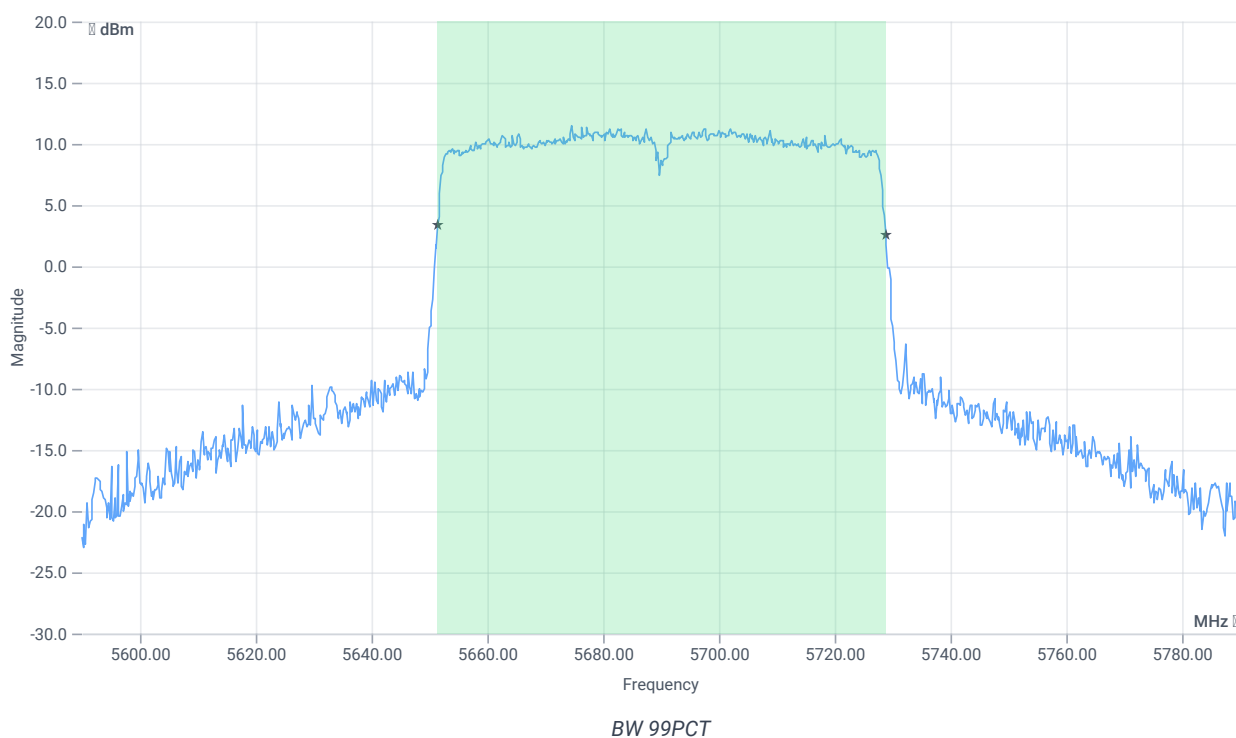
## Test at TX 5690 MHz

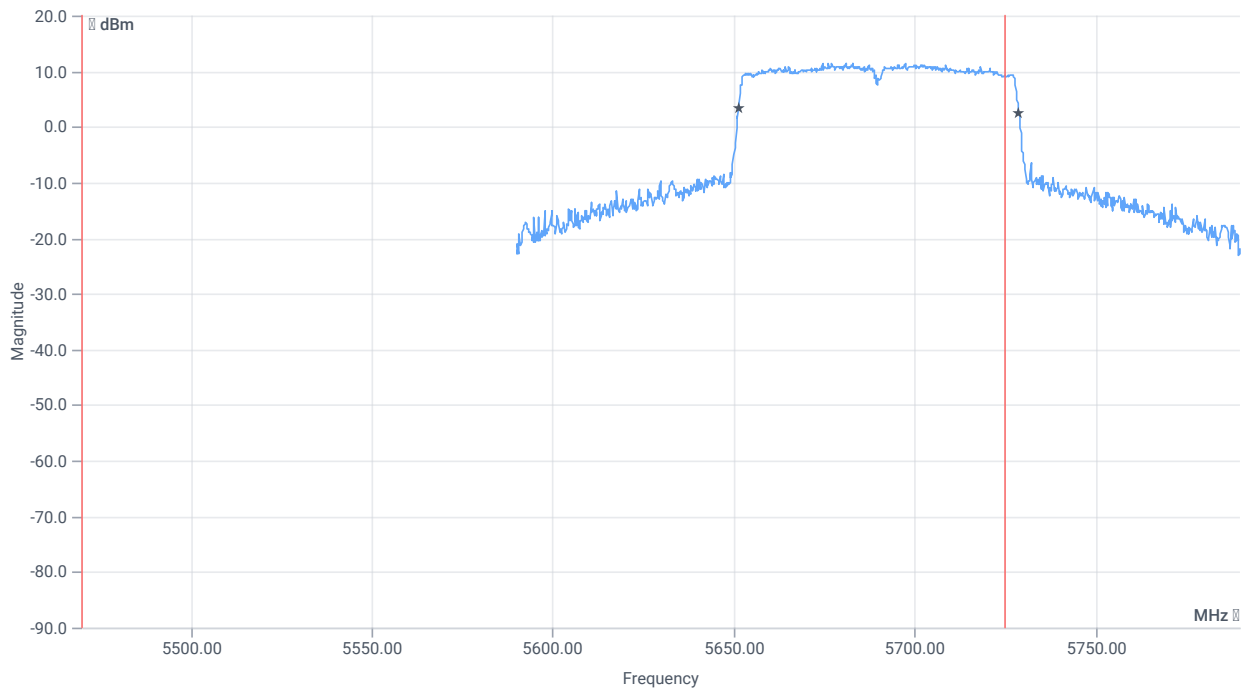
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 10.50    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5698.790 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.50   16.66   20    |
| Start [MHz]   Stop [MHz]                             | 5590.000   5790.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

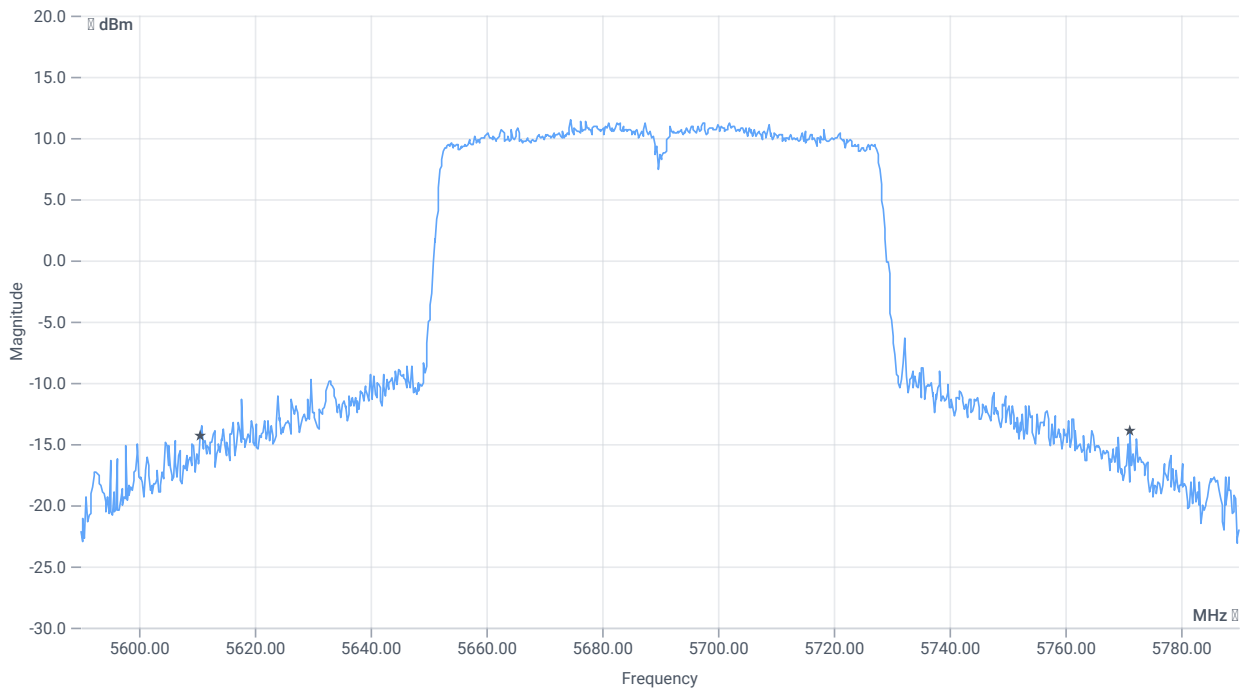




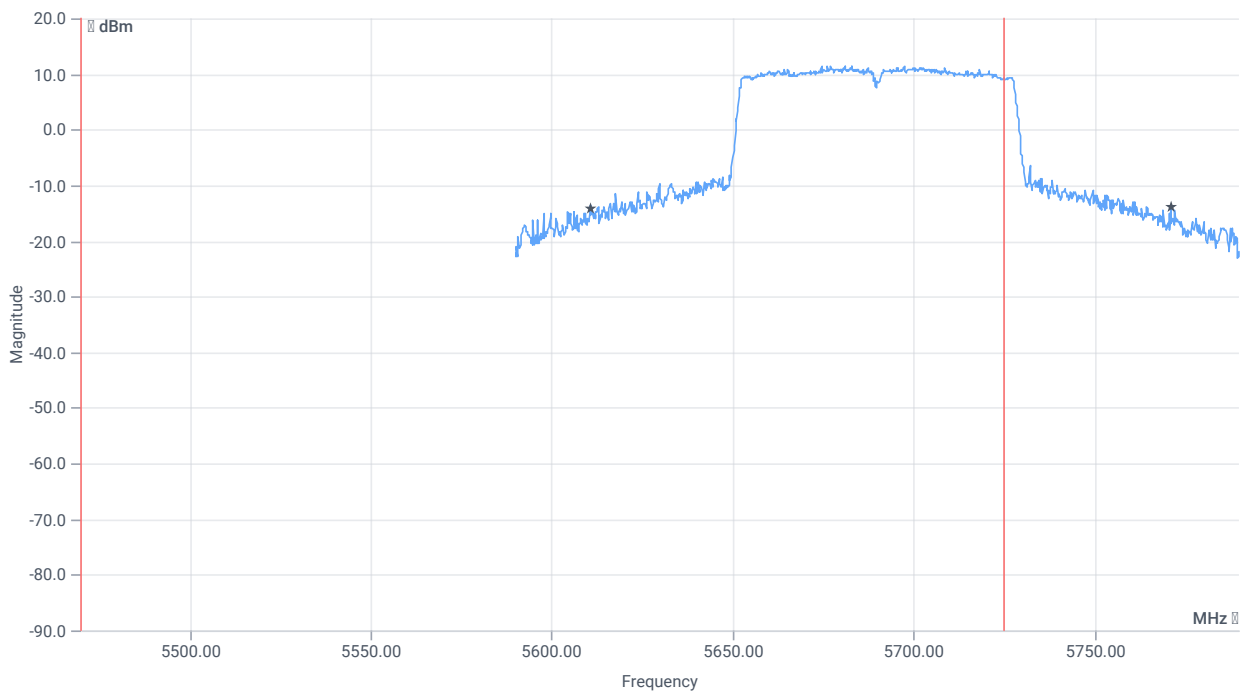
*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|---------------|-------------|-------------|-----------|------|---------------------------------|
| Bandwidth 99% | ---         | ---         | 77.323    | MHz  | INFO                            |
| T1 99%        | 5470.000000 | ---         | 5651.4386 | MHz  | PASS since U-NII-3 is supported |
| T2 99%        | ---         | 5725.000000 | 5728.7612 | MHz  |                                 |



BW 26dB



BW within Band 26dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 160.6    | MHz  | INFO    |

## RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|-------------|-------------|-------------|-----------|------|---------------------------------|
| T1 26dB     | 5470.000000 | ---         | 5610.6000 | MHz  | PASS since U-NII-3 is supported |
| T2 26dB     | ---         | 5725.000000 | 5771.2000 | MHz  |                                 |

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| TC start                          | 22.01.2024 09:35:21                                                |
| Ambit temp [°C]   humidity [rel%] | 19.9   34                                                          |
| System version                    | 4.7.1.5                                                            |
| Standard   Version                | FCC 15.407   NI                                                    |
| Method                            | KDB789033 D02, F., E.2.e.                                          |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                                    |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5530                |
| Frequency mid to test                            | False   Freq [MHz] 5610                |
| Frequency high to test                           | True   Freq [MHz] 5690                 |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5690 MHz

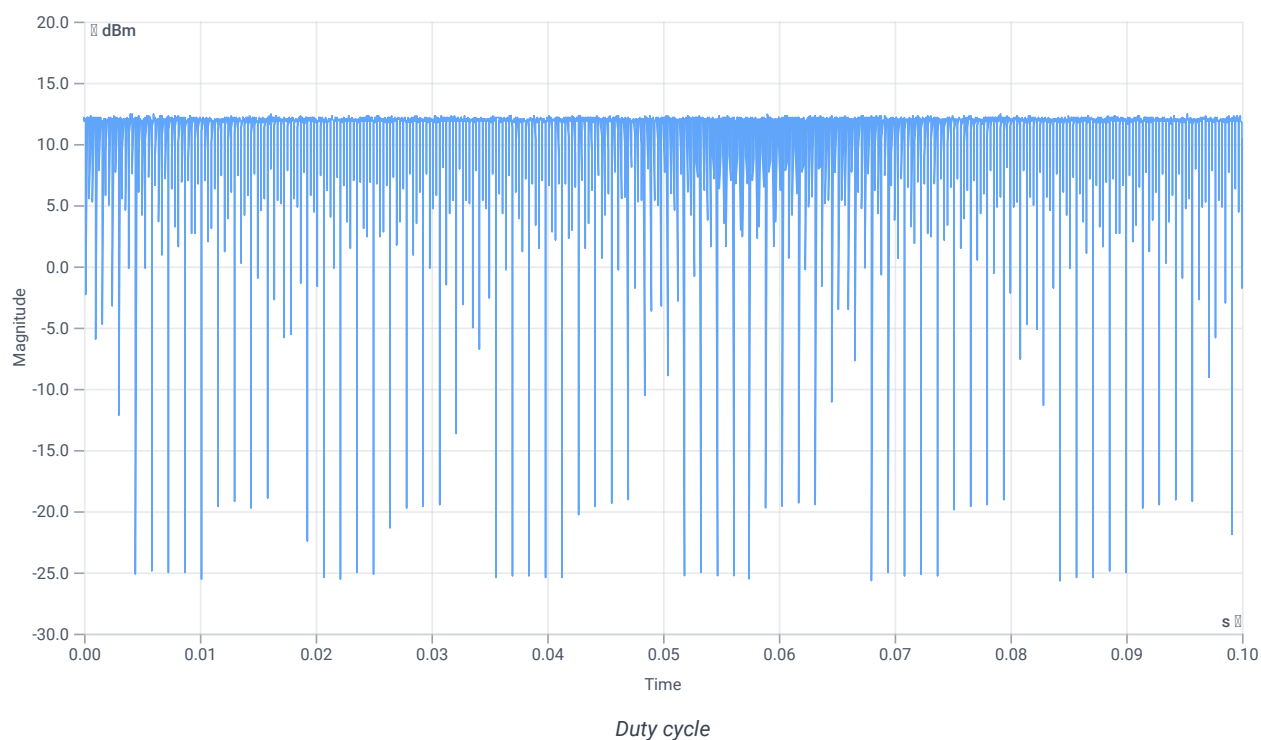
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 11.89    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5685.000 | MHz  | INFO    |

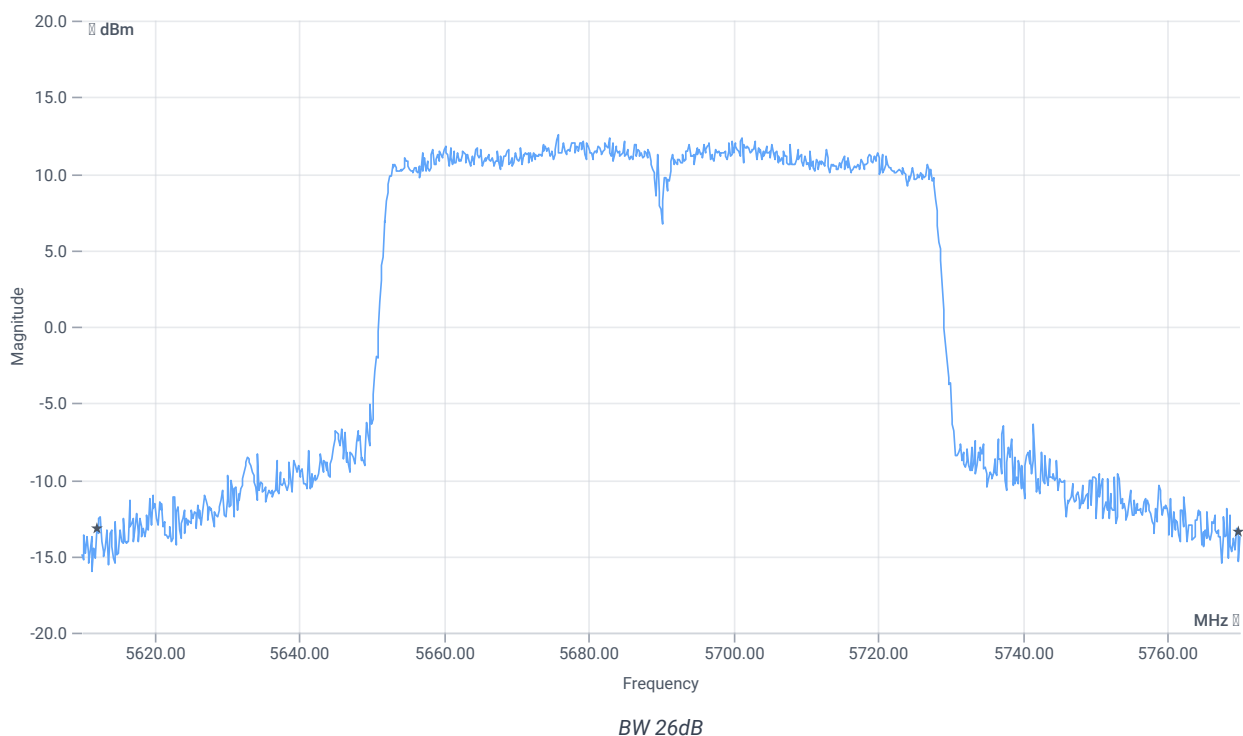
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                |             |             |          |      |         |
| Number of detected Bursts:138 |             |             |          |      |         |
| Duty Cycle (Burst Ratio) max  | ---         | ---         | 0.947    | ---  | INFO    |
| Duty Cycle max                | ---         | ---         | 0.237    | dB   | INFO    |
| Duty Cycle (Burst Ratio) min  | ---         | ---         | 0.87     | ---  | INFO    |
| Duty Cycle min                | ---         | ---         | 0.605    | dB   | INFO    |
| Max TX Burst Length           | ---         | ---         | 1.35     | ms   | INFO    |
| Min Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |



## Evaluation Bandwidth



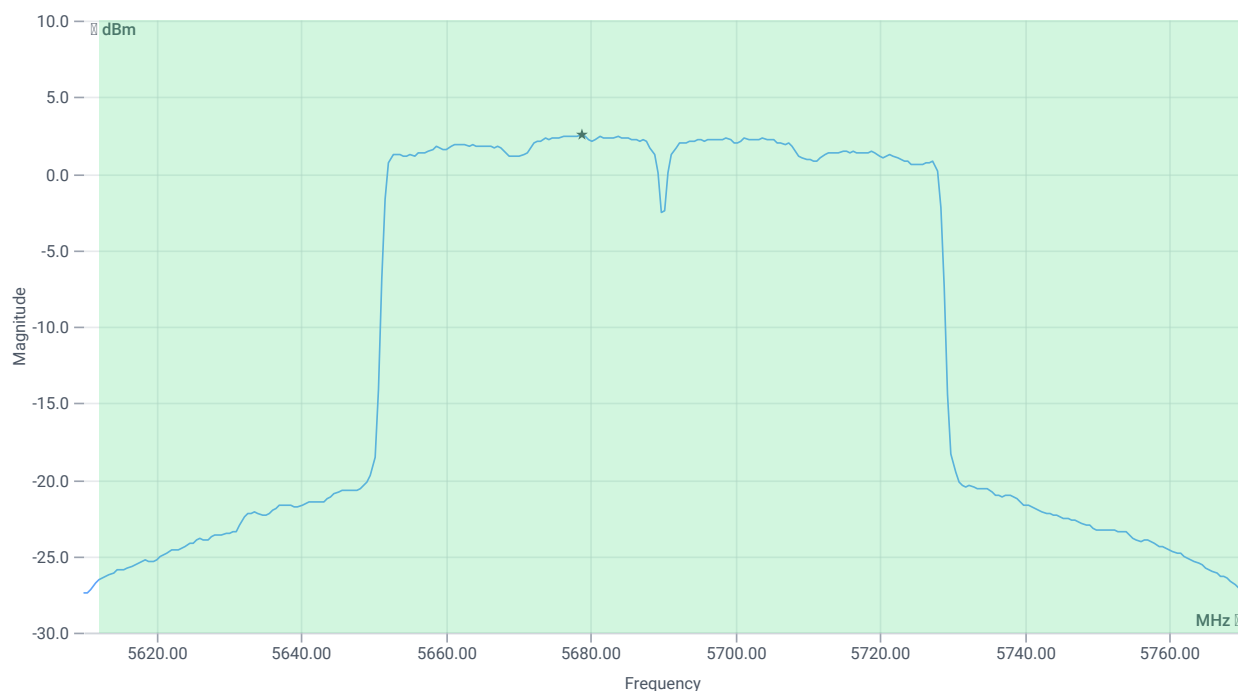
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 157.6     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5612.0800 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5769.6800 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 23.89   16.66   25     |
| Start [MHz]   Stop [MHz]                             | 5610.000   5770.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



Max OP and PSD

## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 20.26    | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 0.6      | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 24          | 20.86    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 157.6  |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 32.98       | 20.86    | dBm  | PASS    |

## Power Spectral Density

## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral Density              | ---         | ---         | 2.55     | dBm/1MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 0.6      | dB       | INFO    |
| Power Spectral Density DC corrected | ---         | 11          | 3.15     | dBm/1MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 22.01.2024 09:37:45                                    |
| Ambit temp [°C]   humidity [rel%] | 19.9   34                                              |
| System version                    | 4.7.1.5                                                |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                           |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN       |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                        |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5530                |
| Frequency mid to test                            | False   Freq [MHz] 5610                |
| Frequency high to test                           | True   Freq [MHz] 5690                 |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

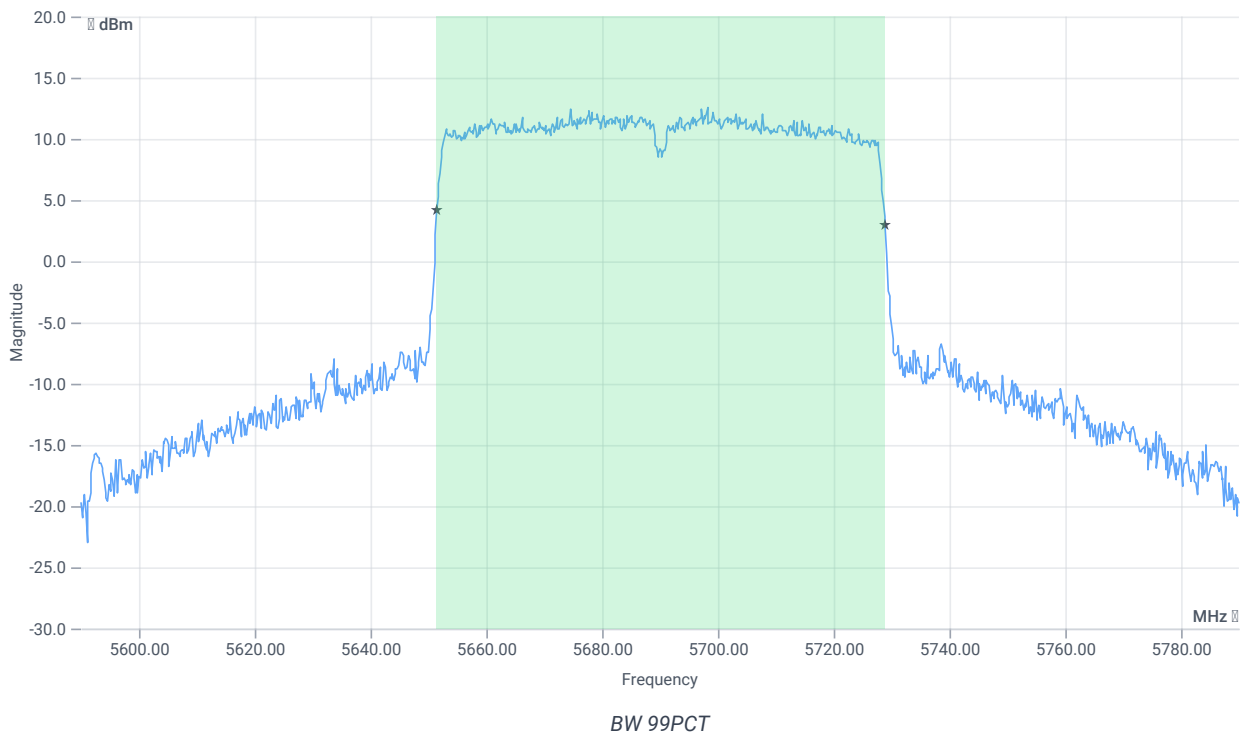
## Test at TX 5690 MHz

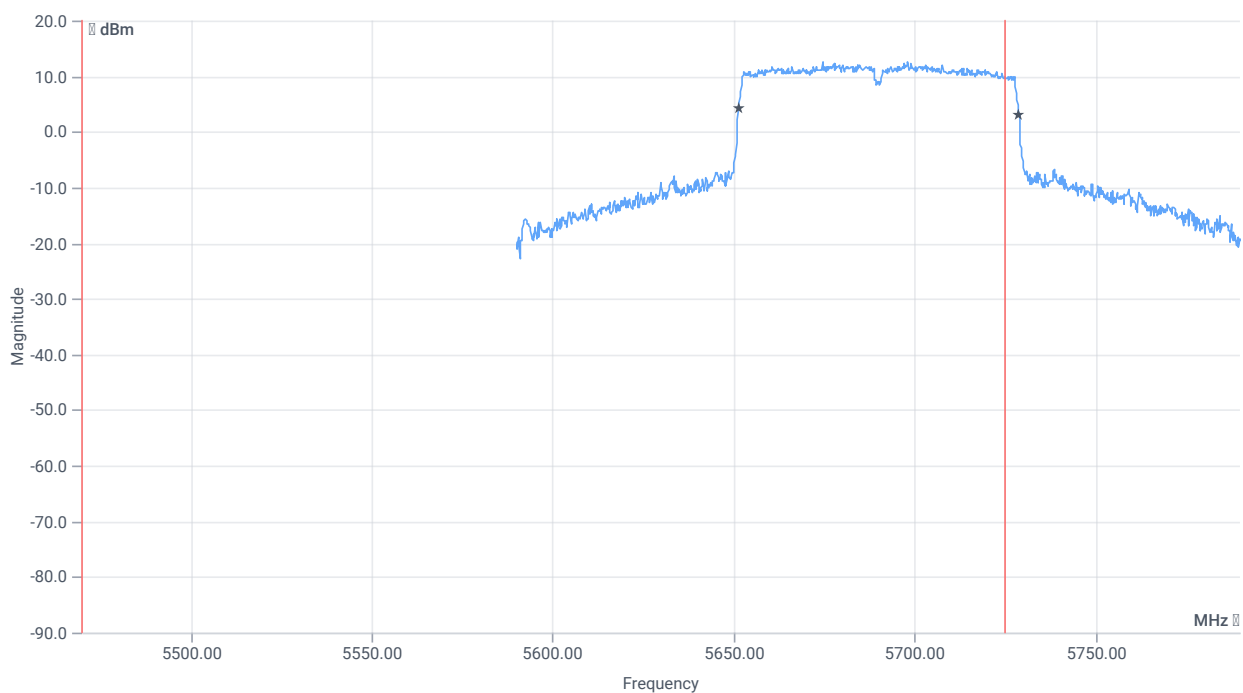
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 11.09    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5698.390 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.09   16.66   20    |
| Start [MHz]   Stop [MHz]                             | 5590.000   5790.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

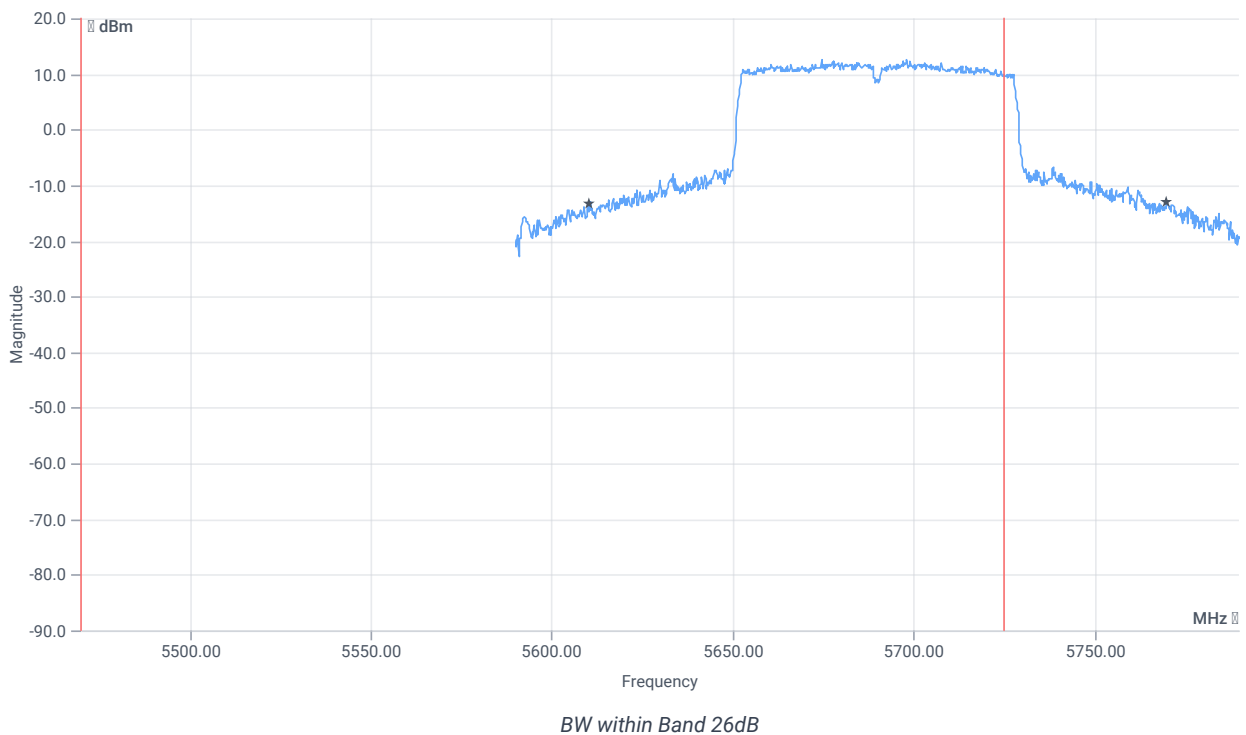
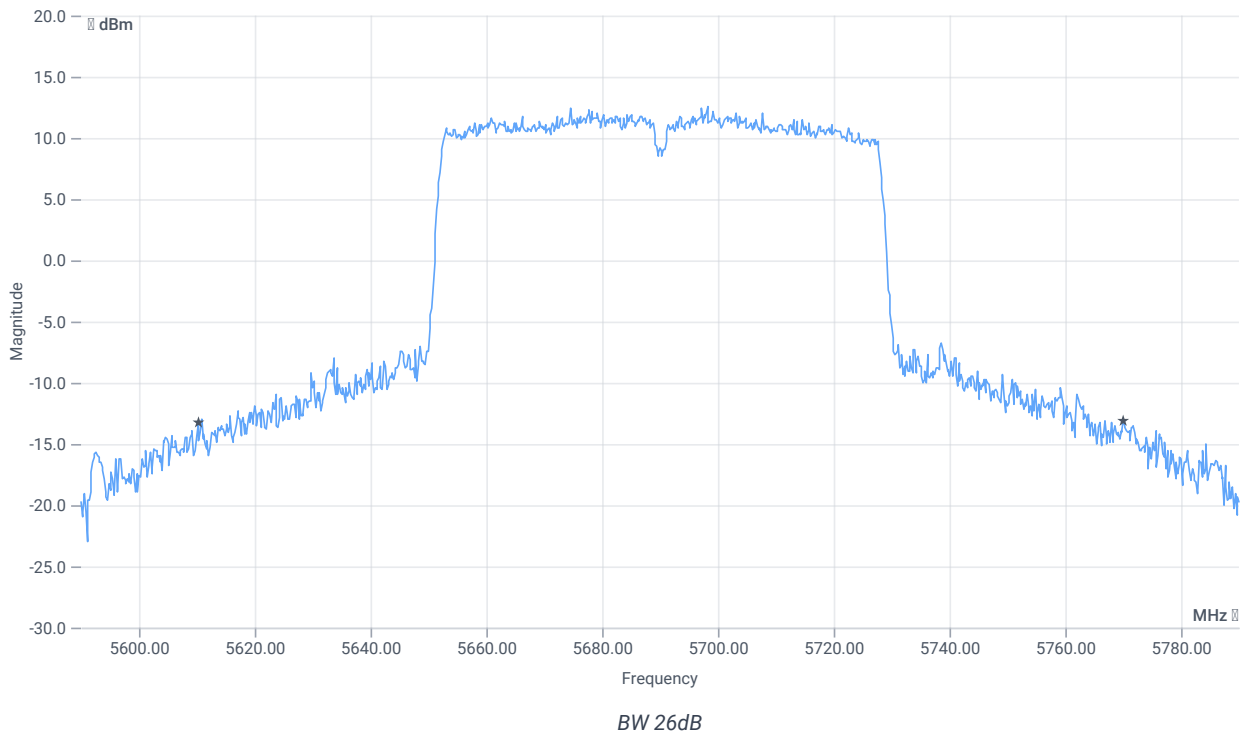




*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|---------------|-------------|-------------|-----------|------|---------------------------------|
| Bandwidth 99% | ---         | ---         | 77.522    | MHz  | INFO                            |
| T1 99%        | 5470.000000 | ---         | 5651.4386 | MHz  | PASS since U-NII-3 is supported |
| T2 99%        | ---         | 5725.000000 | 5728.9610 | MHz  |                                 |



## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 159.8    | MHz  | INFO    |

## RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT                         |
|-------------|-------------|-------------|-----------|------|---------------------------------|
| T1 26dB     | 5470.000000 | ---         | 5610.2000 | MHz  | PASS since U-NII-3 is supported |
| T2 26dB     | ---         | 5725.000000 | 5770.0000 | MHz  |                                 |

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

### References

|                                   |                                                                |
|-----------------------------------|----------------------------------------------------------------|
| TC start                          | 22.01.2024 09:38:22                                            |
| Ambit temp [°C]   humidity [rel%] | 20.0   34                                                      |
| System version                    | 4.7.1.5                                                        |
| Standard   Version                | FCC 15.407   NI                                                |
| Method                            |                                                                |
| Description                       | MIMO $\Sigma$ FCC Power & psd - WLAN5Gx ac-VHT80 mode U-NII-2C |
| Information                       |                                                                |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode   |
| Antenna port used                                | several                 |
| Temperature                                      | nom                     |
| Voltage                                          | nom                     |
| Frequency low to test                            | False   Freq [MHz] 5530 |
| Frequency mid to test                            | False   Freq [MHz] 5610 |
| Frequency high to test                           | True   Freq [MHz] 5690  |
| Auto control enabled power supply   Climatic Box | No   No                 |
| Additional path loss [dB]                        | 1.4                     |
| Full path name   type                            | None                    |

### Equipment

## Test at TX 5690 MHz

### RESULT Power

| DESCRIPTION                           | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------------|-------------|-------------|----------|------|---------|
| Ant:1 Max Output Power DC corrected   | ---         | ---         | 20.61    | dBm  | INFO    |
| Ant:1 BW 26dB                         | ---         | ---         | 151.200  | MHz  | INFO    |
| Ant:2 Max Output Power DC corrected   | ---         | ---         | 20.86    | dBm  | INFO    |
| Ant:2 BW 26dB                         | ---         | ---         | 157.600  | MHz  | INFO    |
| $\Sigma$ Limit absolute               | ---         | 24          | 23.75    | dBm  | PASS    |
| $\Sigma$ Limit: 11 dBm + 10 log 151.2 | ---         | 32.8        | 23.75    | dBm  | PASS    |

### RESULT PSD

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT     | VERDICT |
|-------------|-------------|-------------|----------|----------|---------|
| Ant:1 PSD   | ---         | ---         | 2.82     | dBm/1MHz | INFO    |
| Ant:2 PSD   | ---         | ---         | 3.15     | dBm/1MHz | INFO    |
| $\Sigma$    | ---         | 11          | 6        | dBm/1MHz | PASS    |

### Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                   |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| TC start                          | 22.01.2024 08:04:24                                               |
| Ambit temp [°C]   humidity [rel%] | 20.2   32                                                         |
| System version                    | 4.7.1.5                                                           |
| Standard   Version                | FCC 15.407   NI                                                   |
| Method                            | KDB789033 D02, F., E.2.e.                                         |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                       |                                                                   |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5775                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5775 MHz

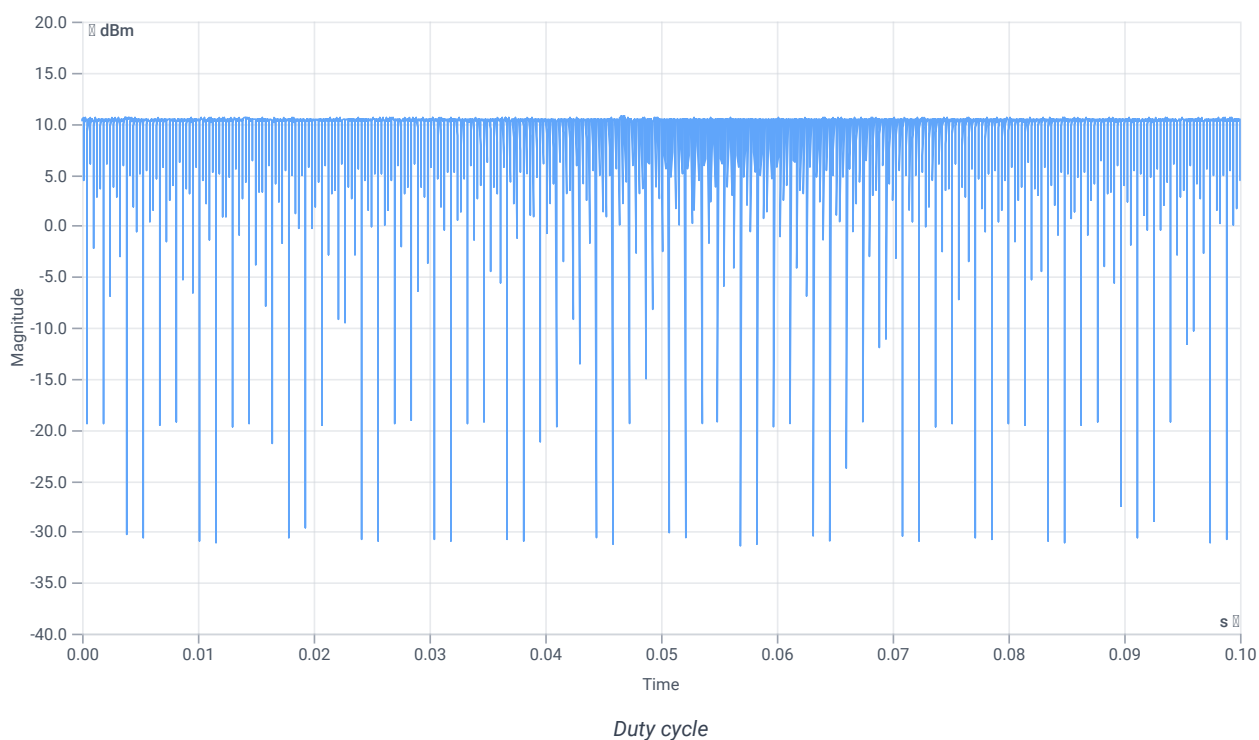
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 9.33     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5787.590 | MHz  | INFO    |

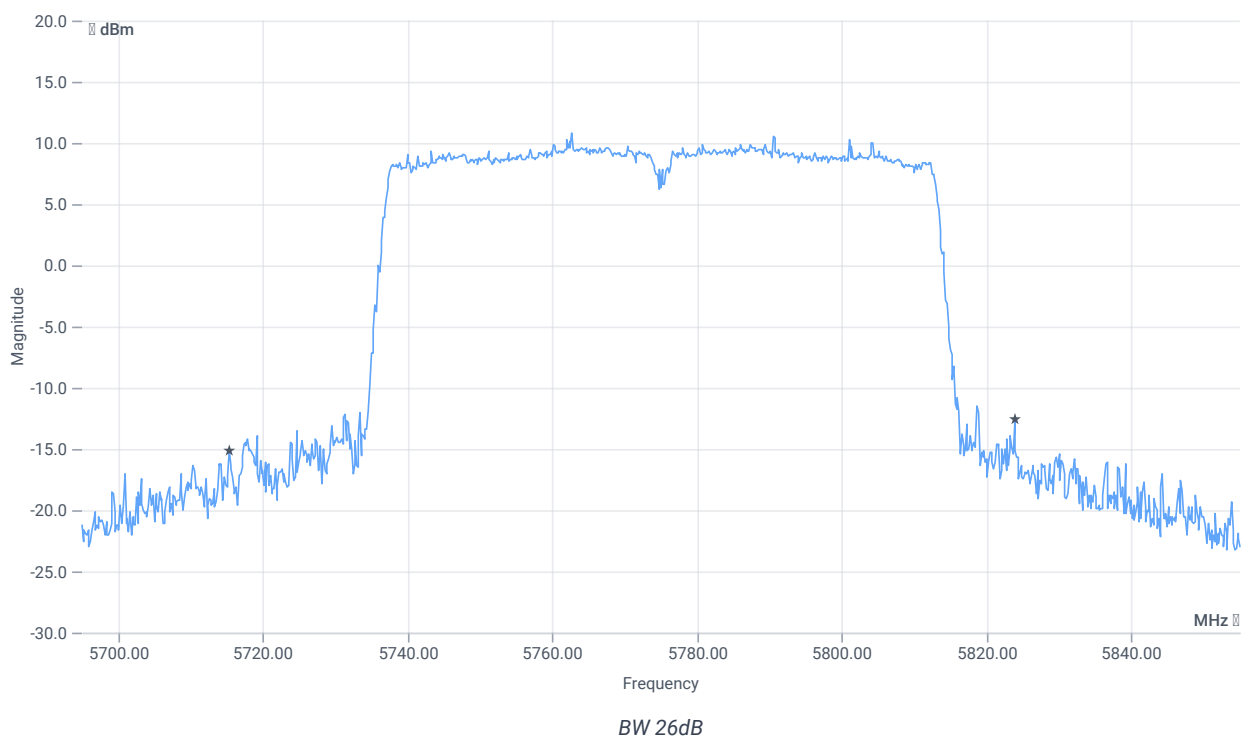
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                |             |             |          |      |         |
| Number of detected Bursts:138 |             |             |          |      |         |
| Duty Cycle (Burst Ratio) max  | ---         | ---         | 0.947    | ---  | INFO    |
| Duty Cycle max                | ---         | ---         | 0.237    | dB   | INFO    |
| Duty Cycle (Burst Ratio) min  | ---         | ---         | 0.87     | ---  | INFO    |
| Duty Cycle min                | ---         | ---         | 0.605    | dB   | INFO    |
| Max TX Burst Length           | ---         | ---         | 1.35     | ms   | INFO    |
| Min Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |



## Evaluation Bandwidth



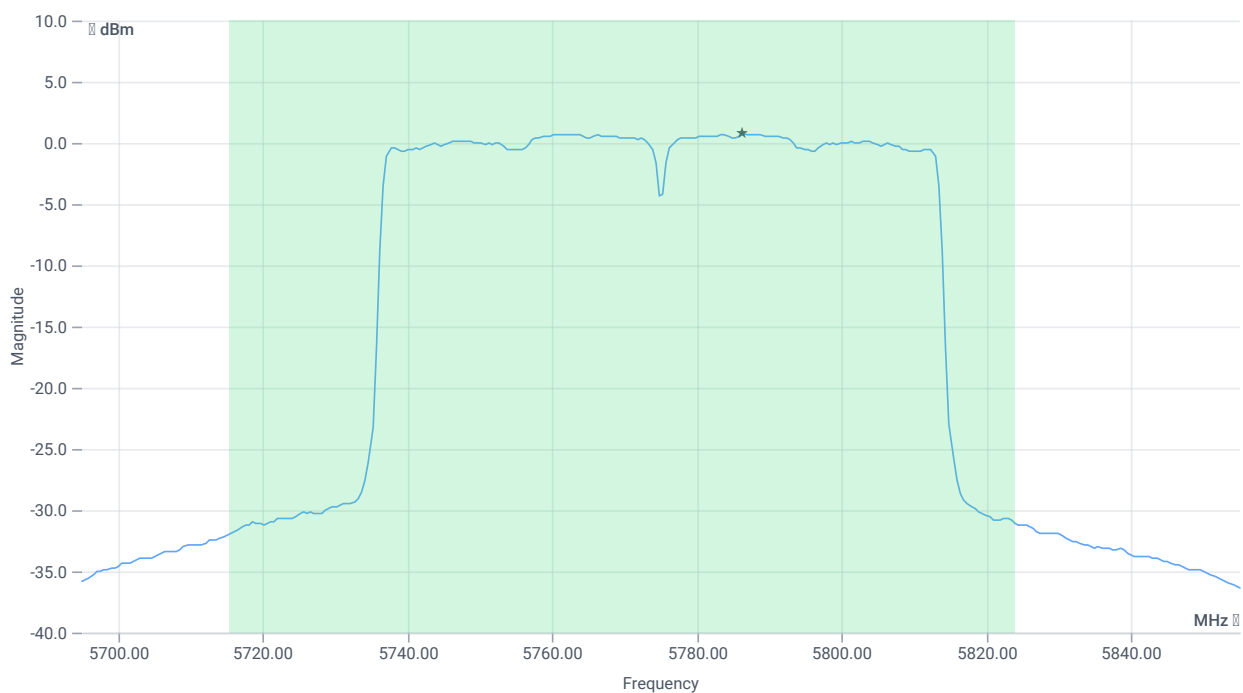
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 108.48    | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5715.3200 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5823.8000 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 21.33   16.82   20     |
| Start [MHz]   Stop [MHz]                             | 5695.000   5855.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



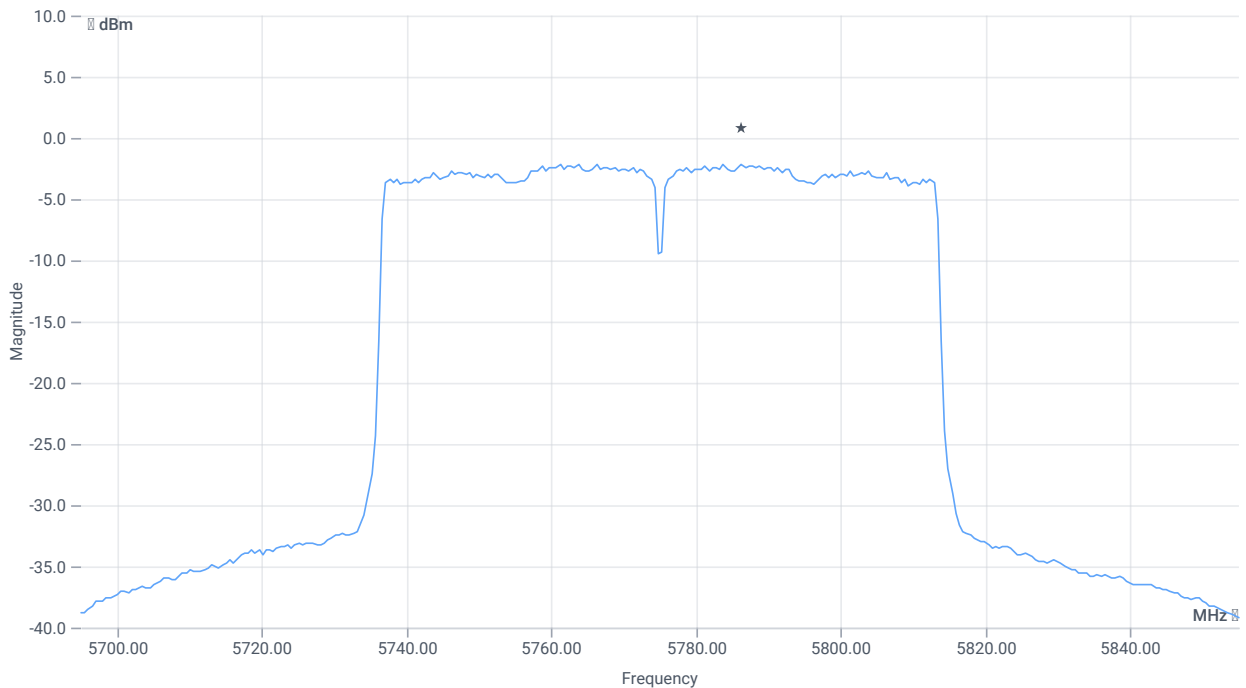
## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 18.61    | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 0.6      | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 30          | 19.21    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 108.48 |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 31.35       | 19.21    | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 21.33   16.82   20     |
| Start [MHz]   Stop [MHz]                             | 5695.000   5855.000    |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|-------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral Density              | ---         | ---         | -2.1     | dBm/0.5MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 0.6      | dB         | INFO    |
| Power Spectral Density DC corrected | ---         | 30          | -1.5     | dBm/0.5MHz | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| TC start                          | 22.01.2024 08:08:52                                   |
| Ambit temp [°C]   humidity [rel%] | 20.2   32                                             |
| System version                    | 4.7.1.5                                               |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                          |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN      |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                       |                                                       |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5775                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

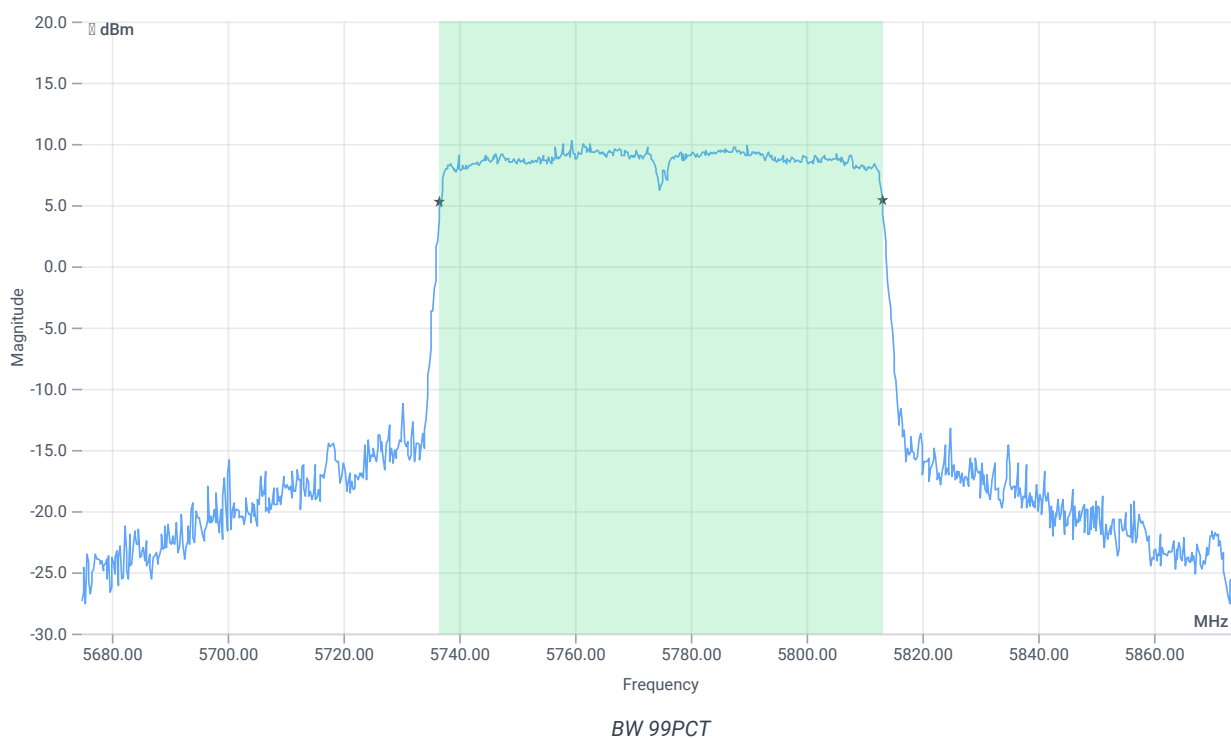
## Test at TX 5775 MHz

RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 9.16     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5751.220 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 17.16   16.82   20    |
| Start [MHz]   Stop [MHz]                             | 5675.000   5875.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

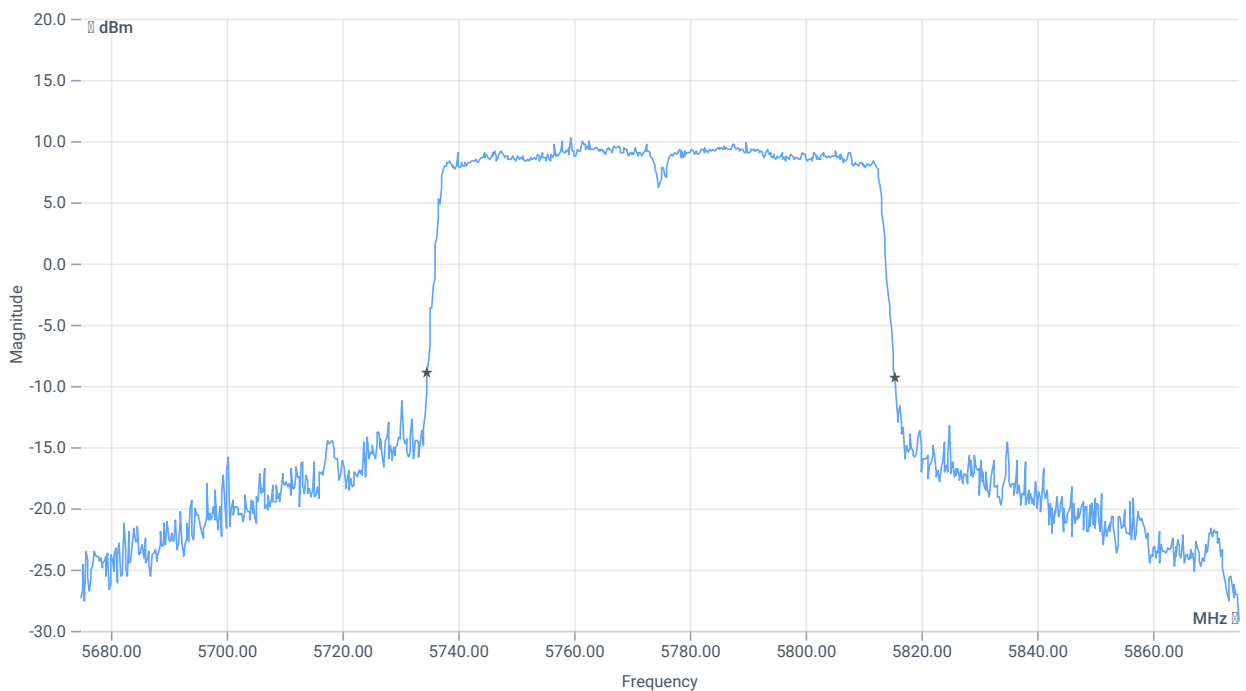




*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 76.324    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5736.8382 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5813.1618 | MHz  | PASS    |



BW 20dB



BW within Band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 80.8      | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5734.8000 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5815.6000 | MHz  | PASS    |

Verdict

PASS

## FCC 15.407, ISSED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                   |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| TC start                          | 22.01.2024 08:09:32                                               |
| Ambit temp [°C]   humidity [rel%] | 20.2   31                                                         |
| System version                    | 4.7.1.5                                                           |
| Standard   Version                | FCC 15.407, ISSED RSS247   NI                                     |
| Method                            | KDB789033 D02, C.2.                                               |
| Description                       | FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                       |                                                                   |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5775                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

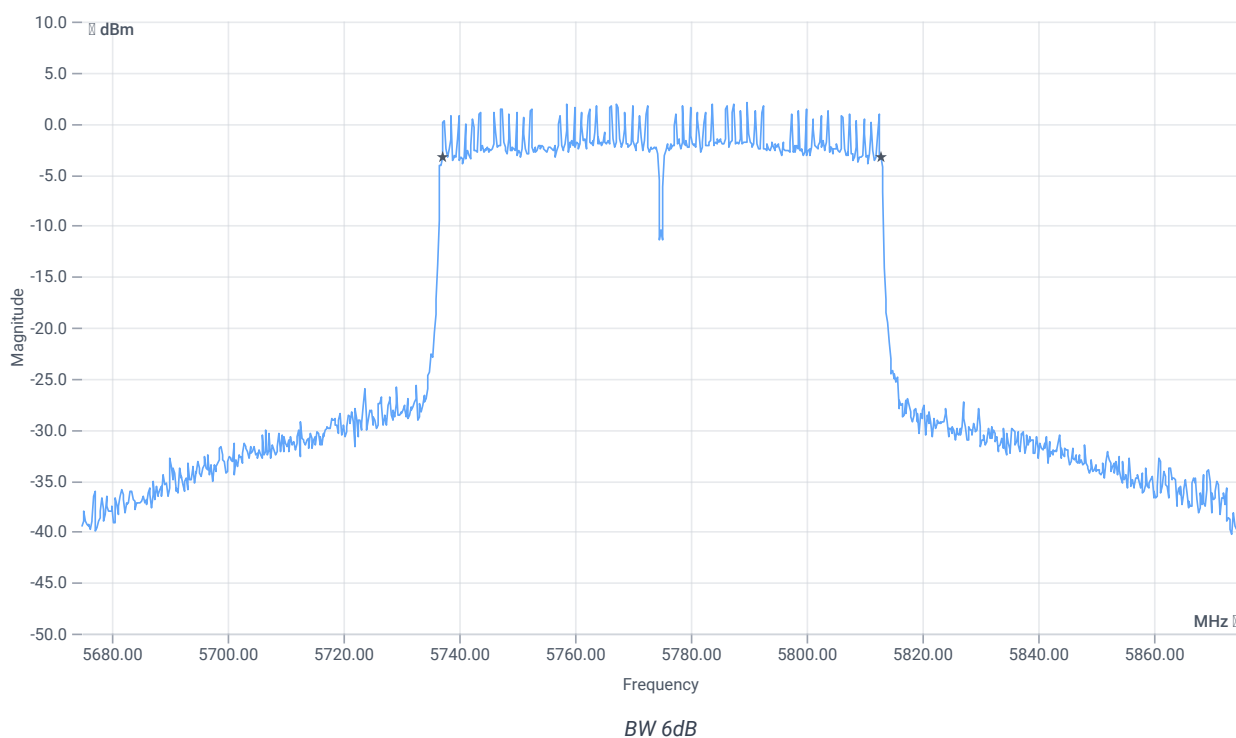
## Test at TX 5775 MHz

RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 8.98     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5787.590 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.98   16.82   20    |
| Start [MHz]   Stop [MHz]                             | 5675.000   5875.000   |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 2   1500   1001   SWE |



### RESULT

| DESCRIPTION     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------|-------------|-------------|----------|------|---------|
| Bandwidth (6dB) | 0.500       | ---         | 75.8     | MHz  | PASS    |

#### Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                   |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| TC start                          | 22.01.2024 08:10:43                                               |
| Ambit temp [°C]   humidity [rel%] | 20.2   31                                                         |
| System version                    | 4.7.1.5                                                           |
| Standard   Version                | FCC 15.407   NI                                                   |
| Method                            | KDB789033 D02, F., E.2.e.                                         |
| Description                       | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                       |                                                                   |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5775                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5775 MHz

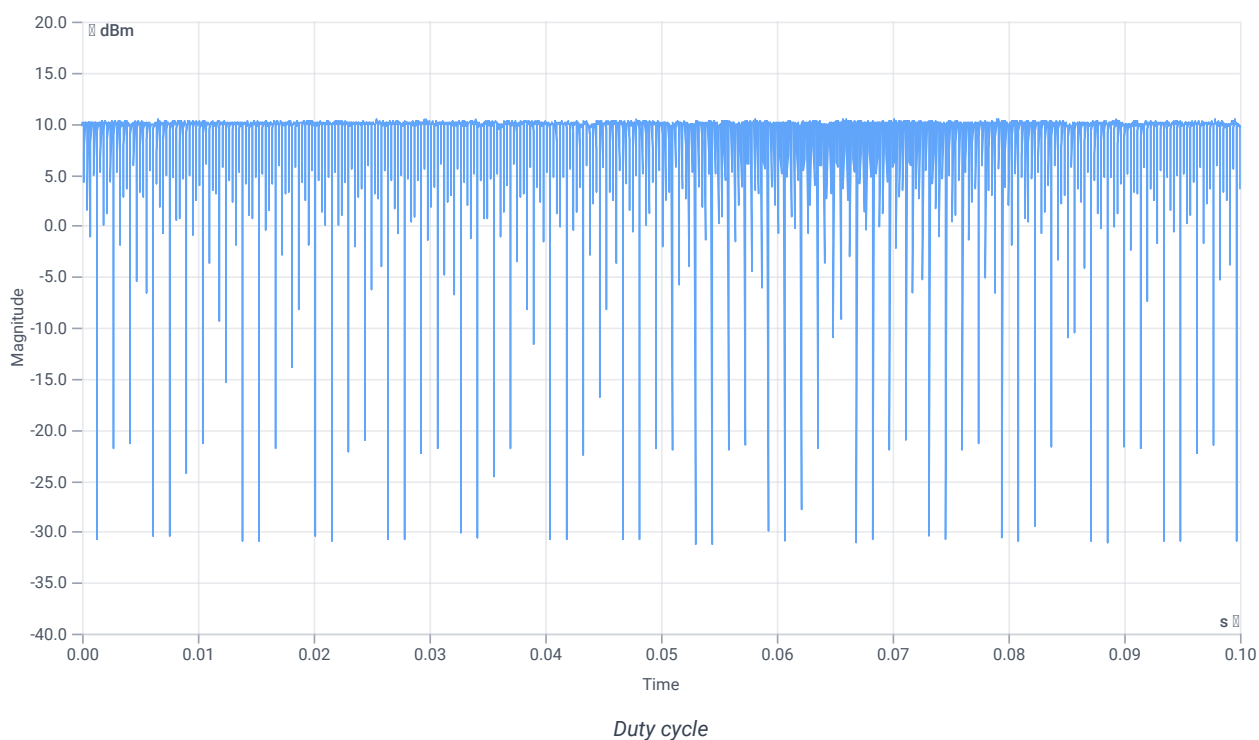
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 9.56     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5763.810 | MHz  | INFO    |

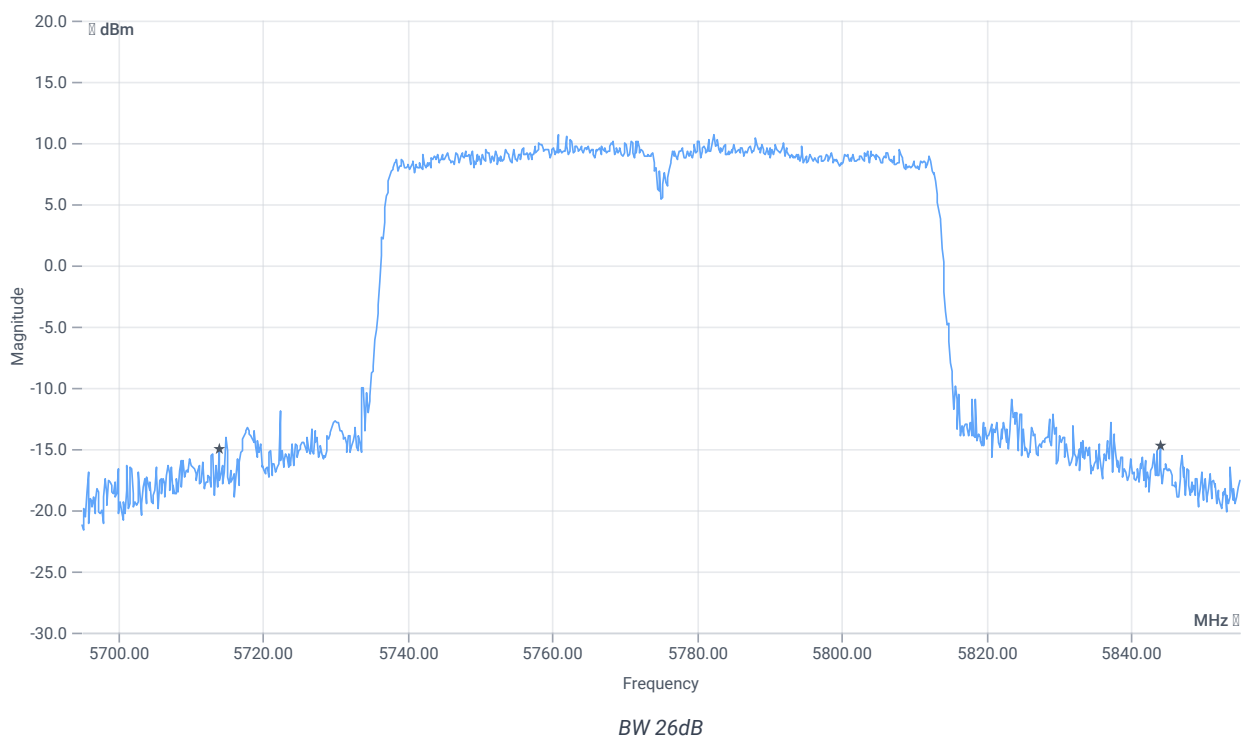
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary                |             |             |          |      |         |
| Number of detected Bursts:139 |             |             |          |      |         |
| Duty Cycle (Burst Ratio) max  | ---         | ---         | 0.947    | ---  | INFO    |
| Duty Cycle max                | ---         | ---         | 0.237    | dB   | INFO    |
| Duty Cycle (Burst Ratio) min  | ---         | ---         | 0.87     | ---  | INFO    |
| Duty Cycle min                | ---         | ---         | 0.605    | dB   | INFO    |
| Max TX Burst Length           | ---         | ---         | 1.35     | ms   | INFO    |
| Min Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |
| Max Gap Length                | ---         | ---         | 0.075    | ms   | INFO    |



## Evaluation Bandwidth



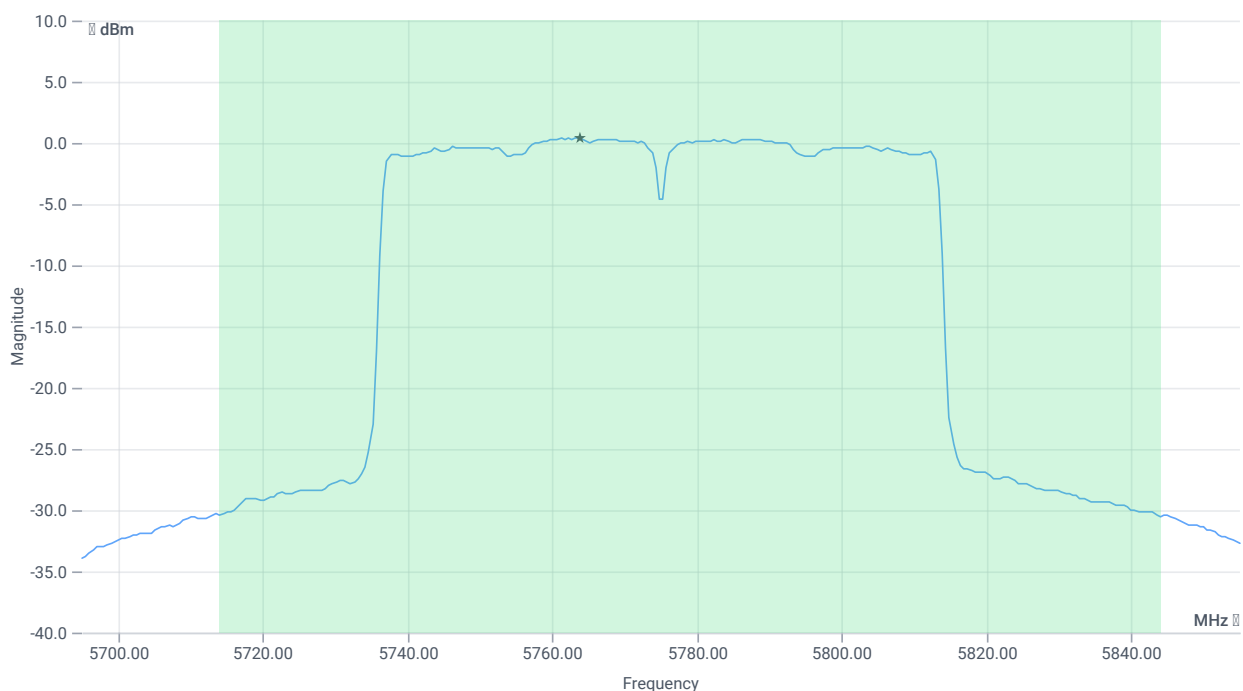
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 130.08    | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5713.8800 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5843.9600 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 21.56   16.82   20     |
| Start [MHz]   Stop [MHz]                             | 5695.000   5855.000    |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



Max OP and PSD

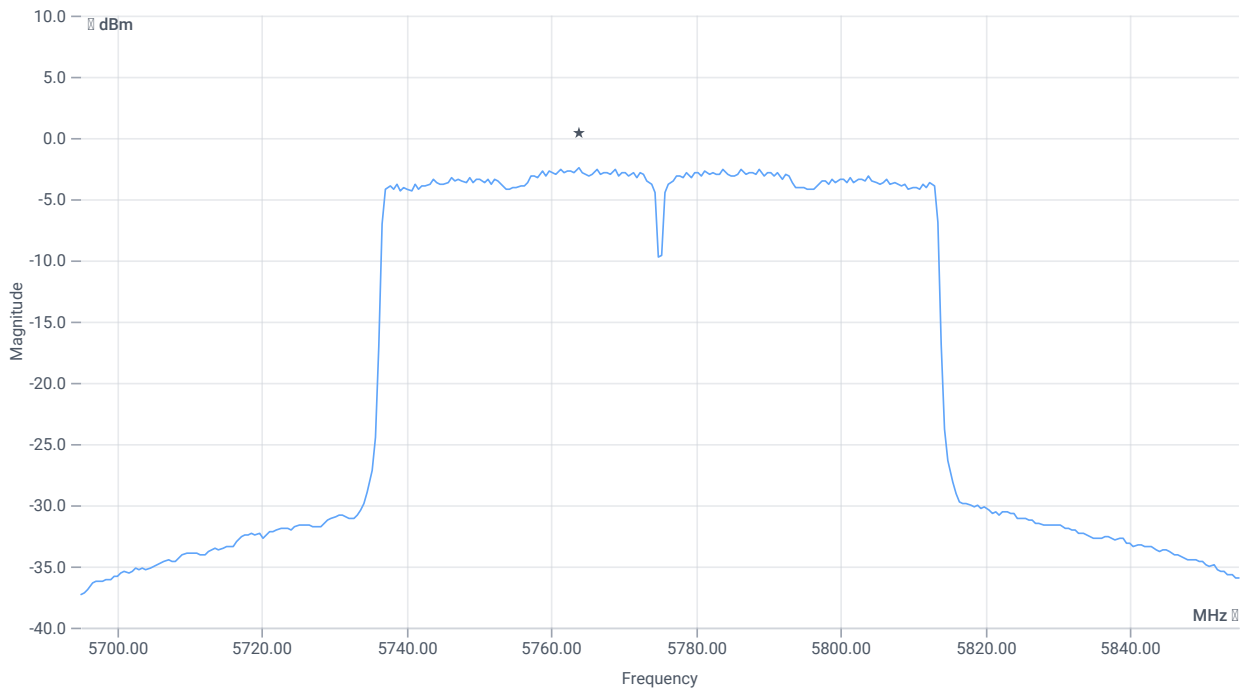
## RESULT

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power              | ---         | ---         | 18.23    | dBm  | INFO    |
| Duty Cycle Correction         | ---         | ---         | 0.6      | dB   | INFO    |
| Limit absolute                |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 30          | 18.83    | dBm  | PASS    |
| Limit: 11 dBm + 10 log 130.08 |             |             |          |      |         |
| Max Output Power DC corrected | ---         | 32.14       | 18.83    | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 21.56   16.82   20     |
| Start [MHz]   Stop [MHz]                             | 5695.000   5855.000    |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000    |
| Detector   TraceMode                                 | RMS   MAXH             |
| Sweep: time [ms]   count   points per Section   type | 107000   1   320   SWE |



## RESULT

| DESCRIPTION                         | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|-------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral Density              | ---         | ---         | -2.43    | dBm/0.5MHz | INFO    |
| Duty Cycle Correction               | ---         | ---         | 0.6      | dB         | INFO    |
| Power Spectral Density DC corrected | ---         | 30          | -1.83    | dBm/0.5MHz | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| TC start                          | 22.01.2024 08:15:12                                   |
| Ambit temp [°C]   humidity [rel%] | 20.2   31                                             |
| System version                    | 4.7.1.5                                               |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                          |
| Method                            | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN      |
| Description                       | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                       |                                                       |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5775                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

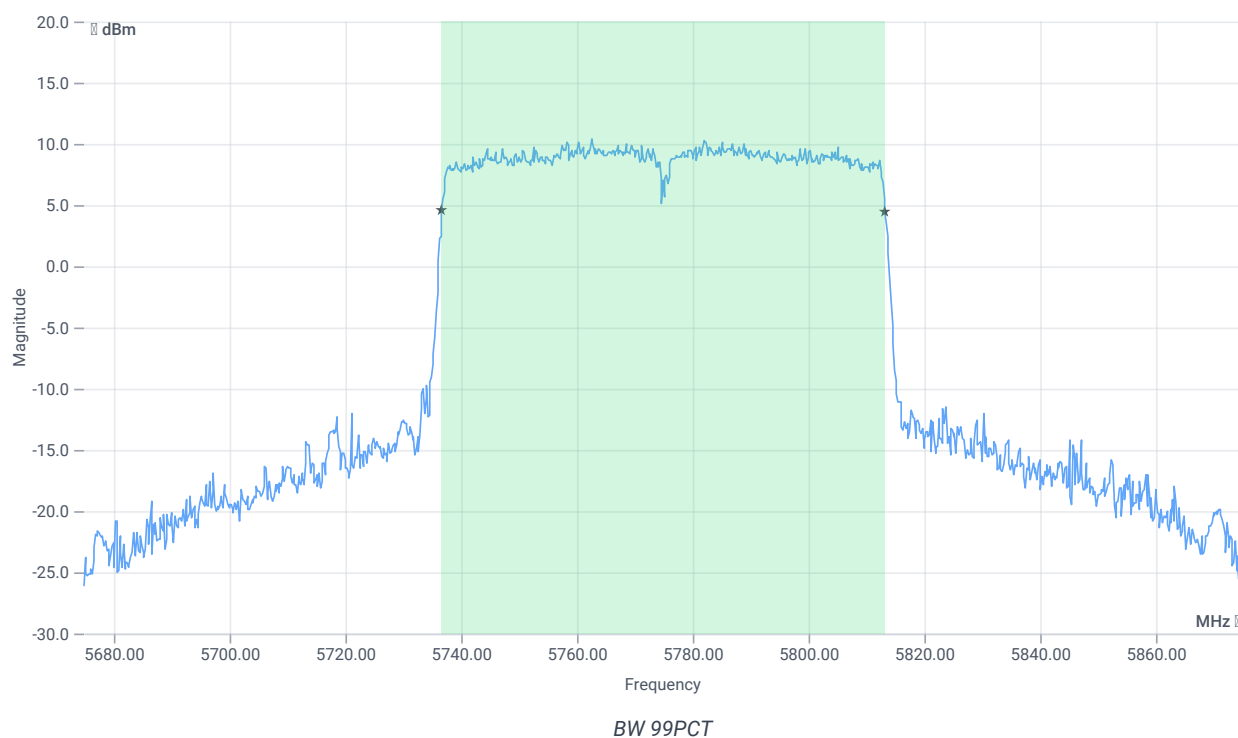
## Test at TX 5775 MHz

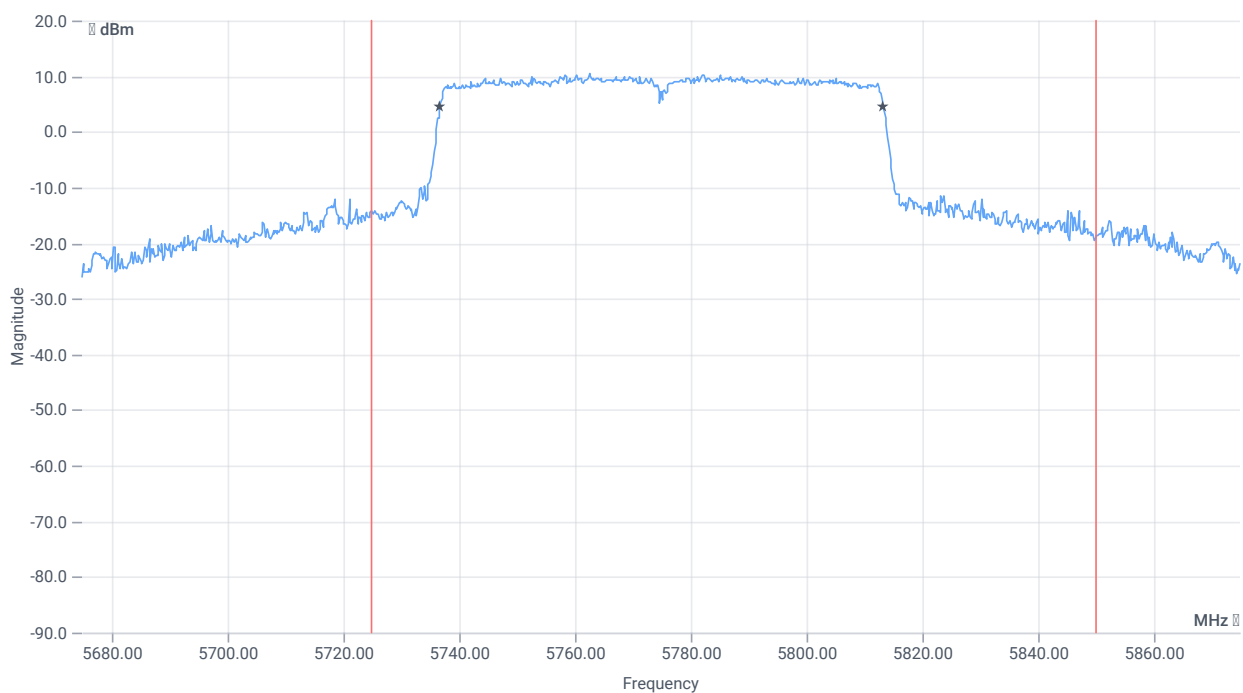
RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 9.46     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5789.990 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 17.46   16.82   20    |
| Start [MHz]   Stop [MHz]                             | 5675.000   5875.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

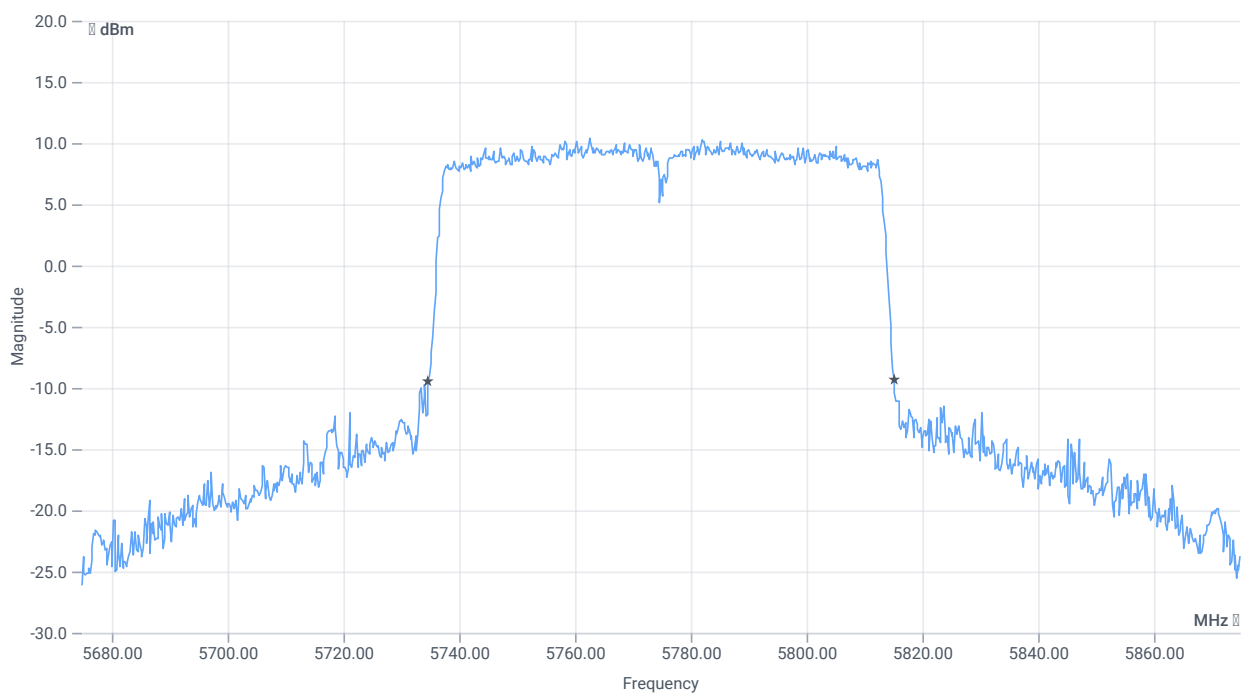




*BW within Band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 76.523    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5736.8382 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5813.3616 | MHz  | PASS    |



BW 20dB



BW within Band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 80.4      | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5734.8000 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5815.2000 | MHz  | PASS    |

Verdict

PASS

## FCC 15.407, ISSED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                   |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| TC start                          | 22.01.2024 08:15:52                                               |
| Ambit temp [°C]   humidity [rel%] | 20.2   31                                                         |
| System version                    | 4.7.1.5                                                           |
| Standard   Version                | FCC 15.407, ISSED RSS247   NI                                     |
| Method                            | KDB789033 D02, C.2.                                               |
| Description                       | FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                       |                                                                   |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5775                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 1.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

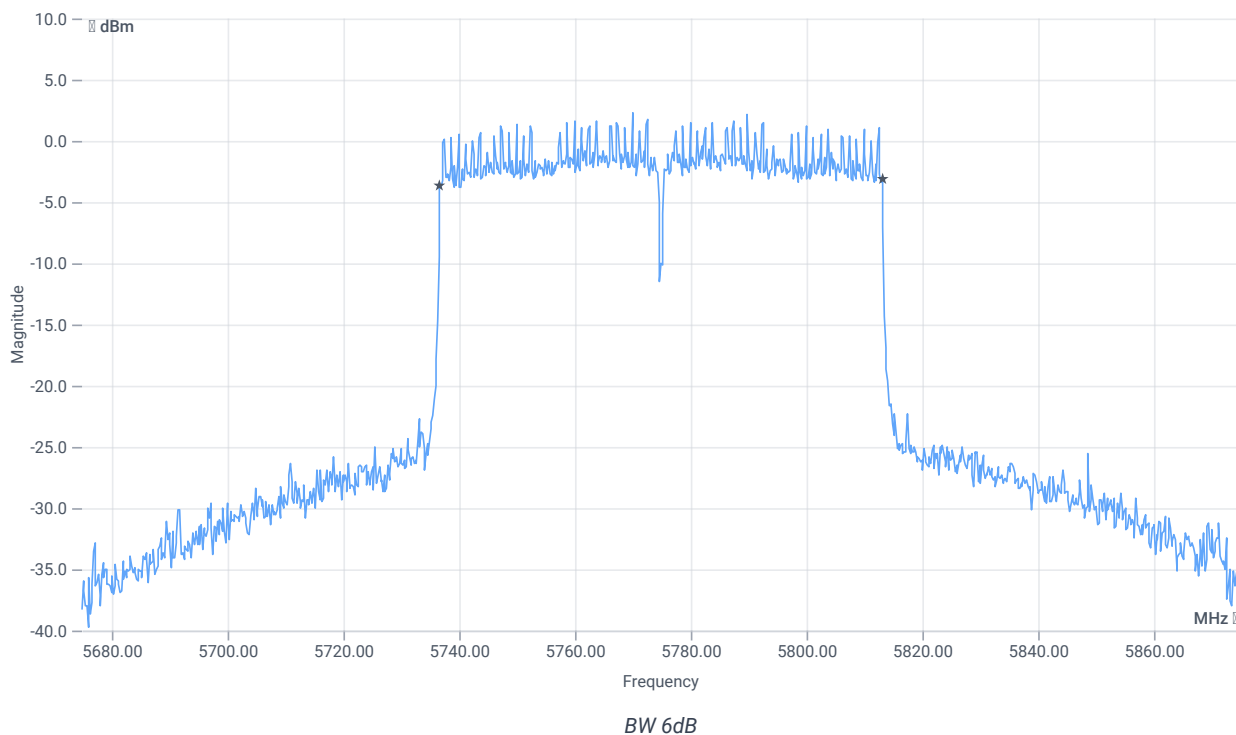
## Test at TX 5775 MHz

RESULT: Reference Power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 9.11     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5765.010 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 21.12   16.82   20    |
| Start [MHz]   Stop [MHz]                             | 5675.000   5875.000   |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 2   1500   1001   SWE |



### RESULT

| DESCRIPTION     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------|-------------|-------------|----------|------|---------|
| Bandwidth (6dB) | 0.500       | ---         | 76.4     | MHz  | PASS    |

#### Verdict

PASS

## FCC 15.407 # MIMO Σ Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 22.01.2024 08:16:22                                    |
| Ambit temp [°C]   humidity [rel%] | 20.2   31                                              |
| System version                    | 4.7.1.5                                                |
| Standard   Version                | FCC 15.407   NI                                        |
| Method                            |                                                        |
| Description                       | MIMO Σ FCC Power & psd - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                       |                                                        |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                        |
|--------------------------------------------------|------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode  |
| Antenna port used                                | several                |
| Temperature                                      | nom                    |
| Voltage                                          | nom                    |
| Frequency low to test                            | False   Freq [MHz] 0   |
| Frequency mid to test                            | True   Freq [MHz] 5775 |
| Frequency high to test                           | False   Freq [MHz] 0   |
| Auto control enabled power supply   Climatic Box | No   No                |
| Additional path loss [dB]                        | 1.4                    |
| Full path name   type                            | None                   |

### Equipment

## Test at TX 5775 MHz

### RESULT Power

| DESCRIPTION                            | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------------------------------|-------------|-------------|----------|------|---------|
| Ant:1 Max Output Power DC corrected    | ---         | ---         | 19.21    | dBm  | INFO    |
| Ant:1 BW 26dB                          | ---         | ---         | 108.480  | MHz  | INFO    |
| Ant:2 Max Output Power DC corrected    | ---         | ---         | 18.83    | dBm  | INFO    |
| Ant:2 BW 26dB                          | ---         | ---         | 130.080  | MHz  | INFO    |
| $\Sigma$ Limit absolute                | ---         | 30          | 22.03    | dBm  | PASS    |
| $\Sigma$ Limit: 11 dBm + 10 log 108.48 | ---         | 31.35       | 22.03    | dBm  | na      |

### RESULT PSD

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|-------------|-------------|-------------|----------|------------|---------|
| Ant:1 PSD   | ---         | ---         | -1.5     | dBm/0.5MHz | INFO    |
| Ant:2 PSD   | ---         | ---         | -1.83    | dBm/0.5MHz | INFO    |
| $\Sigma$    | ---         | 30          | 1.35     | dBm/0.5MHz | PASS    |

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                   |                                                          |
|-----------------------------------|----------------------------------------------------------|
| TC start                          | 19.01.2024 14:21:32                                      |
| Ambit temp [°C]   humidity [rel%] | 23.0   26                                                |
| System version                    | 4.7.1.5                                                  |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                             |
| Method                            | NI                                                       |
| Description                       | FCC 15.407 Emission mask - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                       |                                                          |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5775                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 3.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5775 MHz

RESULT: Reference Power cond.

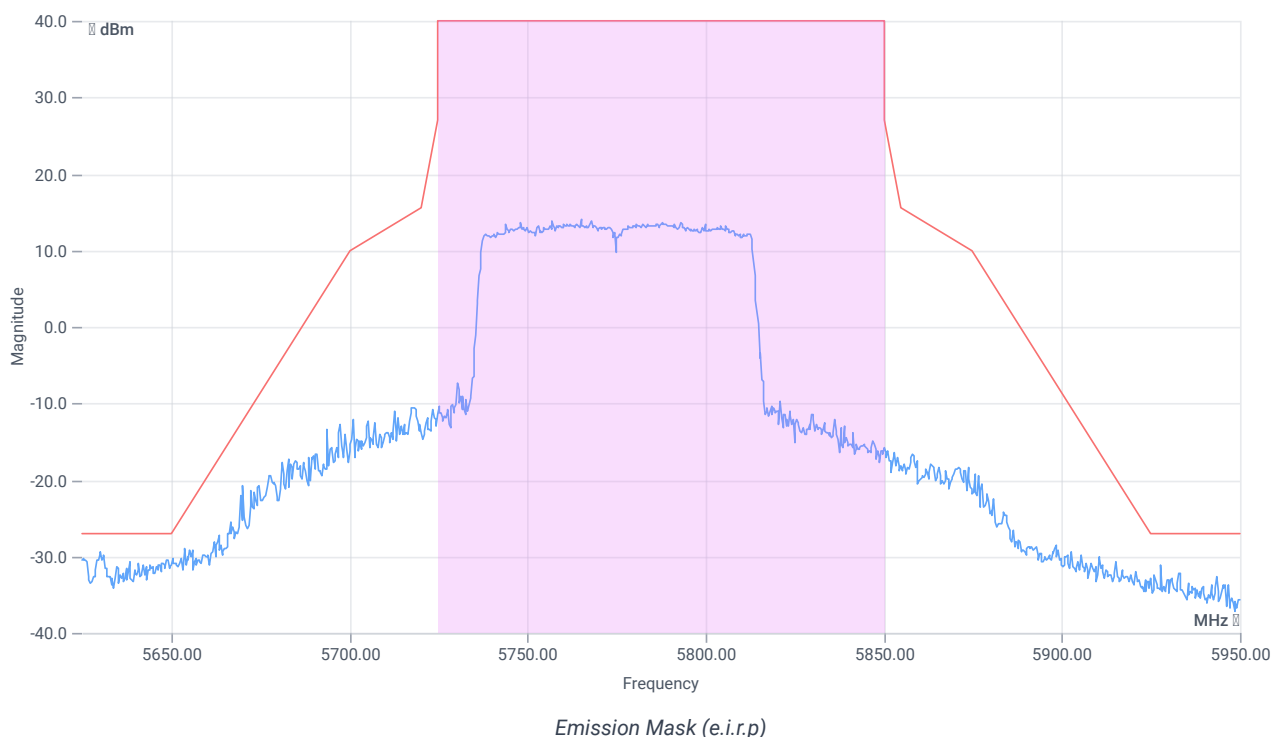
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 10.97    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5764.410 | MHz  | INFO    |

## Antenna gain

Considered antenna gain [dBi]: 2 / max found in range 5625 to 5950 MHz

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 13.97   18.82   15    |
| Start [MHz]   Stop [MHz]                             | 5625.000   5950.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



## RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------|-------------|-------------|----------|------|---------|
|-------------|-------------|-------------|----------|------|---------|

Verdict

PASS

## FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                   |                                                          |
|-----------------------------------|----------------------------------------------------------|
| TC start                          | 19.01.2024 14:22:09                                      |
| Ambit temp [°C]   humidity [rel%] | 23.0   26                                                |
| System version                    | 4.7.1.5                                                  |
| Standard   Version                | FCC 15.407, ISED RSS247   NI                             |
| Method                            | NI                                                       |
| Description                       | FCC 15.407 Emission mask - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                       |                                                          |

### EUT Common Settings WLAN5Gx

|                         |          |
|-------------------------|----------|
| Number of Antenna Ports | 2        |
| User Interaction        | No       |
| Device Class UNII_1     | Client   |
| Limit W52 Japan         | Standard |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                  |
| Antenna port used                                | 2                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 0                   |
| Frequency mid to test                            | True   Freq [MHz] 5775                 |
| Frequency high to test                           | False   Freq [MHz] 0                   |
| Auto control enabled power supply   Climatic Box | No   No                                |
| Additional path loss [dB]                        | 3.4                                    |
| Full path name   type                            | EUT - SignalingUnit - SpectrumAnalyzer |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI            |

## Test at TX 5775 MHz

RESULT: Reference Power cond.

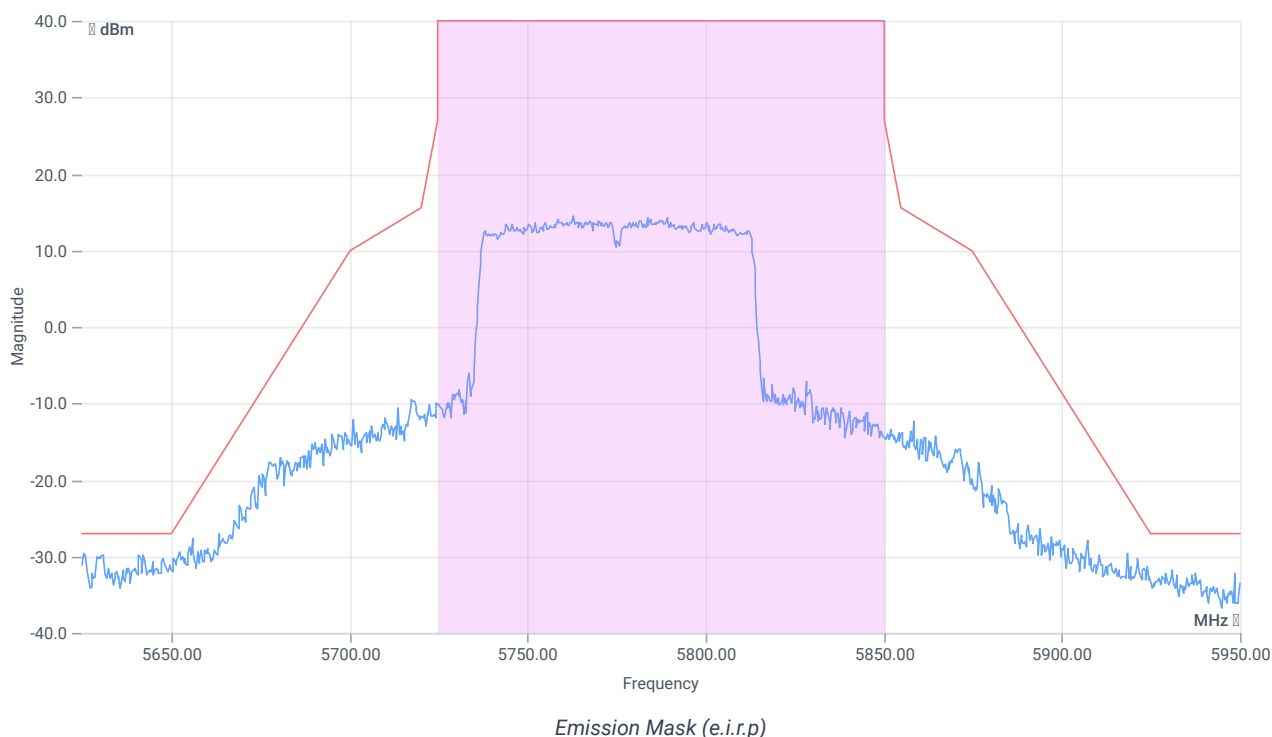
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 12.14    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5761.610 | MHz  | INFO    |

## Antenna gain

Considered antenna gain [dBi]: 2 / max found in range 5625 to 5950 MHz

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.14   18.82   15    |
| Start [MHz]   Stop [MHz]                             | 5625.000   5950.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



## RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------|-------------|-------------|----------|------|---------|
|-------------|-------------|-------------|----------|------|---------|

Verdict

PASS

- END OF DOCUMENT -