

## Annex 6

No.23-1-0068401T004a-A6i

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July 20, 2023

Test Standard(s)	FCC 15.407 FCC 15.407, ISED RSS247
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## # Message with SA scan ~

### References

TC start	12.07.2023 13:58:12
Ambit temp [°C]   humidity [rel%]	26.8   51
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA WLAN5Gx ax-HE80 U-NII-1
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	12.07.2023 13:58:12
Message	set WLAN5Gx to WLAN5Gx ax-HE80 U-NII-1, Frequency [MHz] 5210 ,

### Equipment

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

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-1

### References

TC start	12.07.2023 13:58:26
Ambit temp [°C]   humidity [rel%]	26.8   51
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-1
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

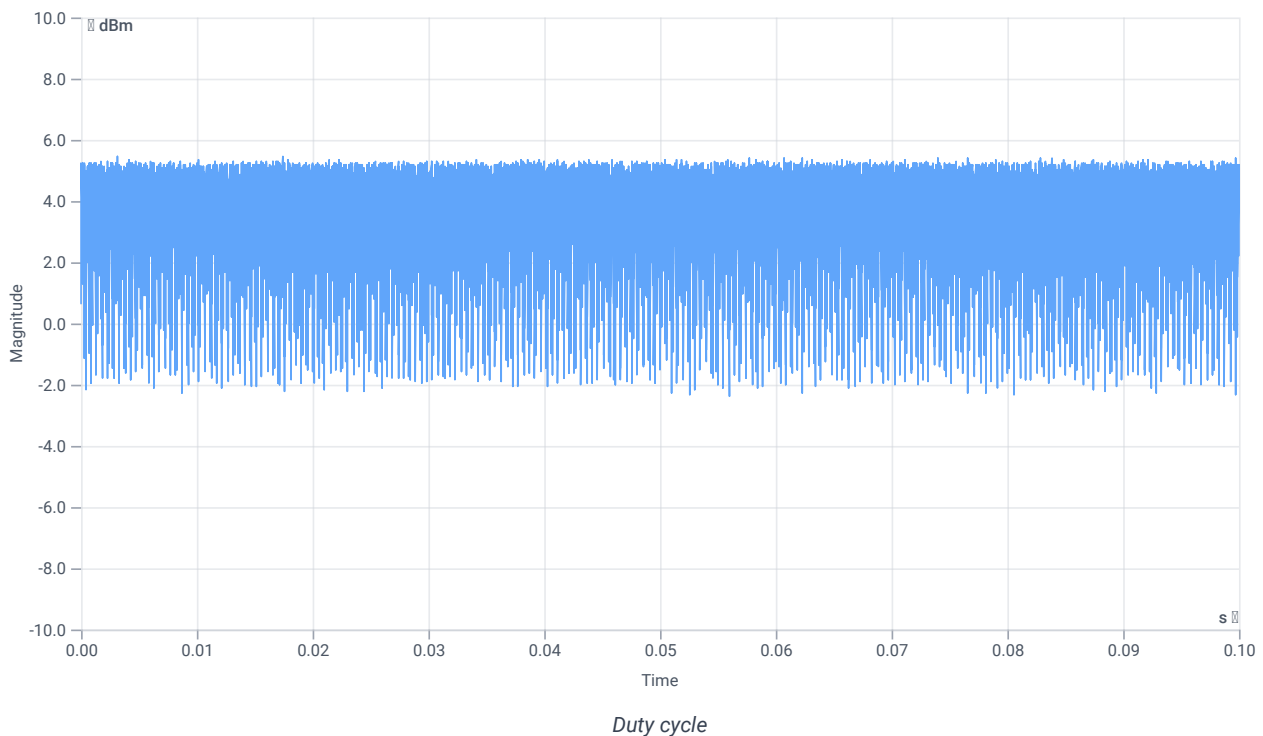
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	6.93	dBm	INFO
Ref. Frequency	--	--	5201.810	MHz	INFO

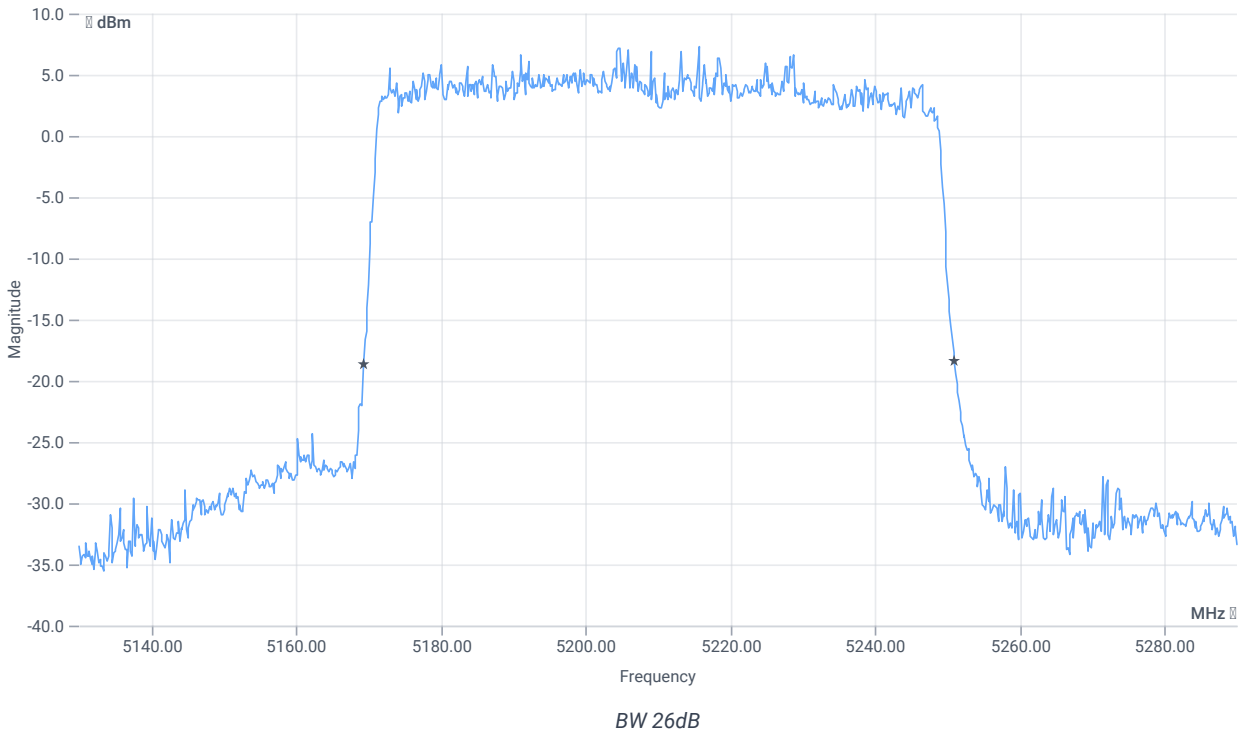
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



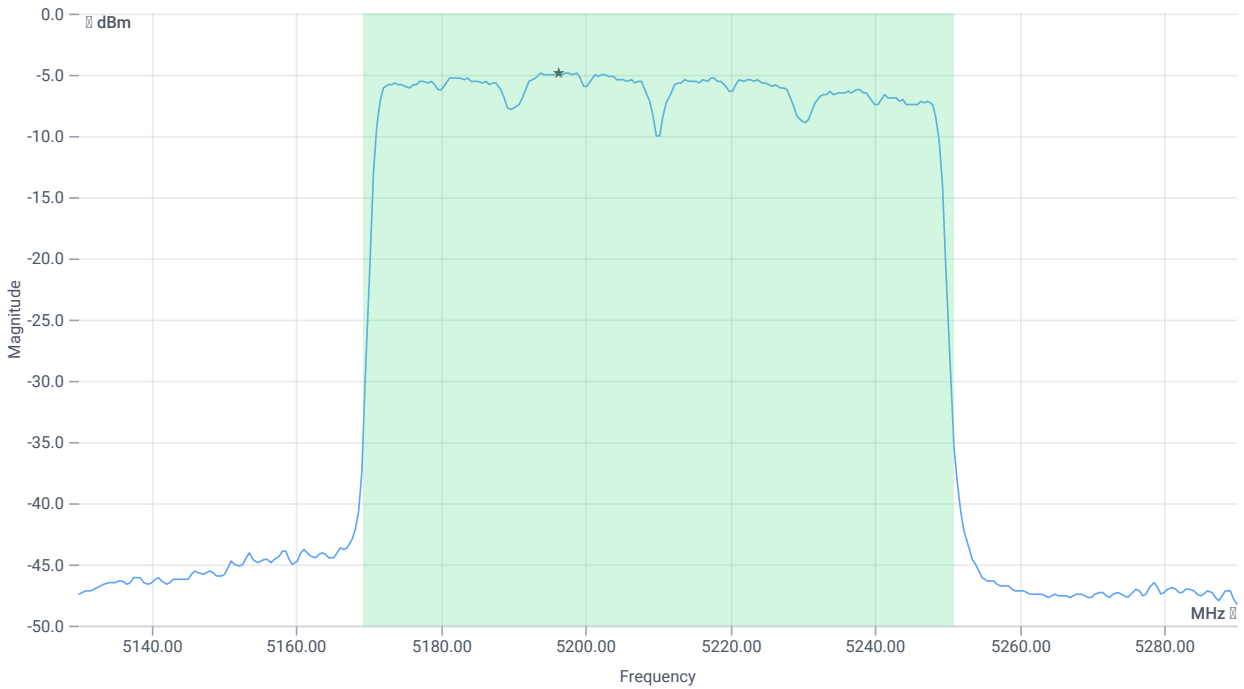
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	81.6	MHz	INFO
T1 26dB	---	---	5169.3600	MHz	INFO
T2 26dB	---	---	5250.9600	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	18.93   16.3   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	--	--	12.56	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	12.56	dBm	PASS
Limit: 11 dBm + 10 log 81.6					
Max Output Power DC corrected	--	30.12	12.56	dBm	na

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	-4.82	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	-4.82	dBm/1MHz	PASS

### Verdict

PASS

# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-1

## References

TC start	12.07.2023 14:00:57
Ambit temp [°C]   humidity [rel%]	26.8   51
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-1
Information	

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

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



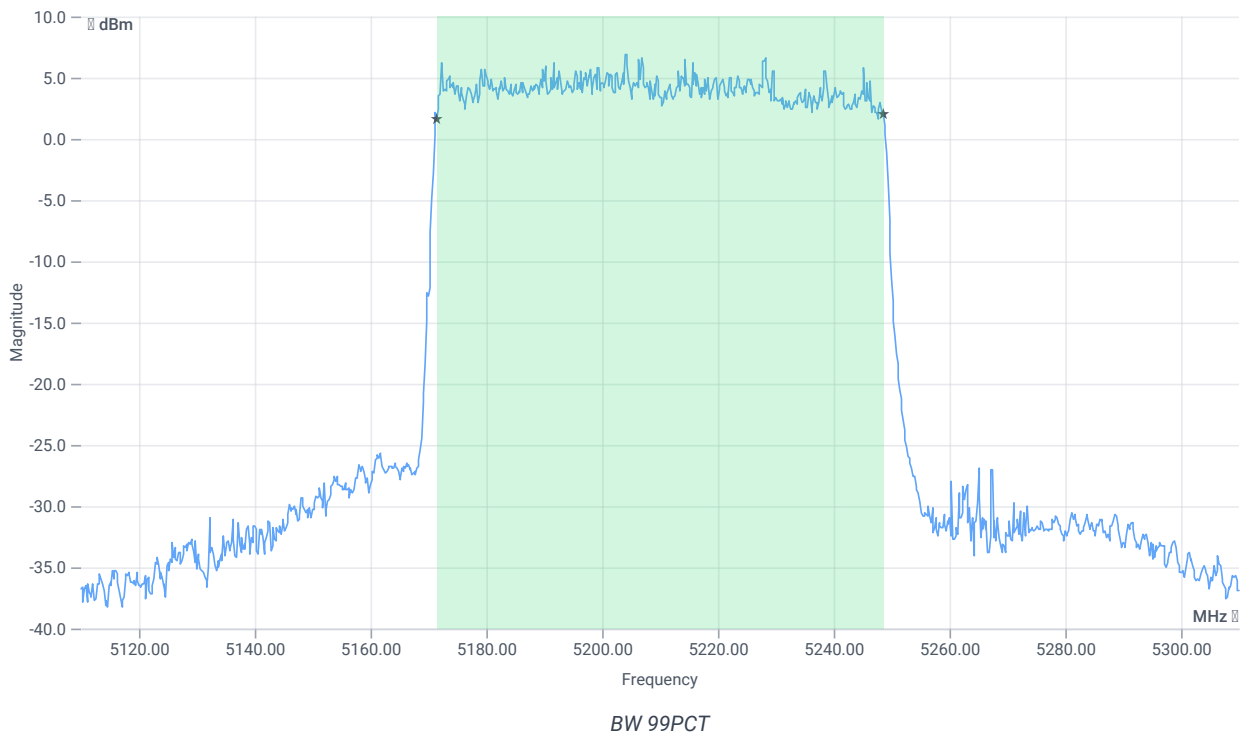
## Test at TX 5210 MHz

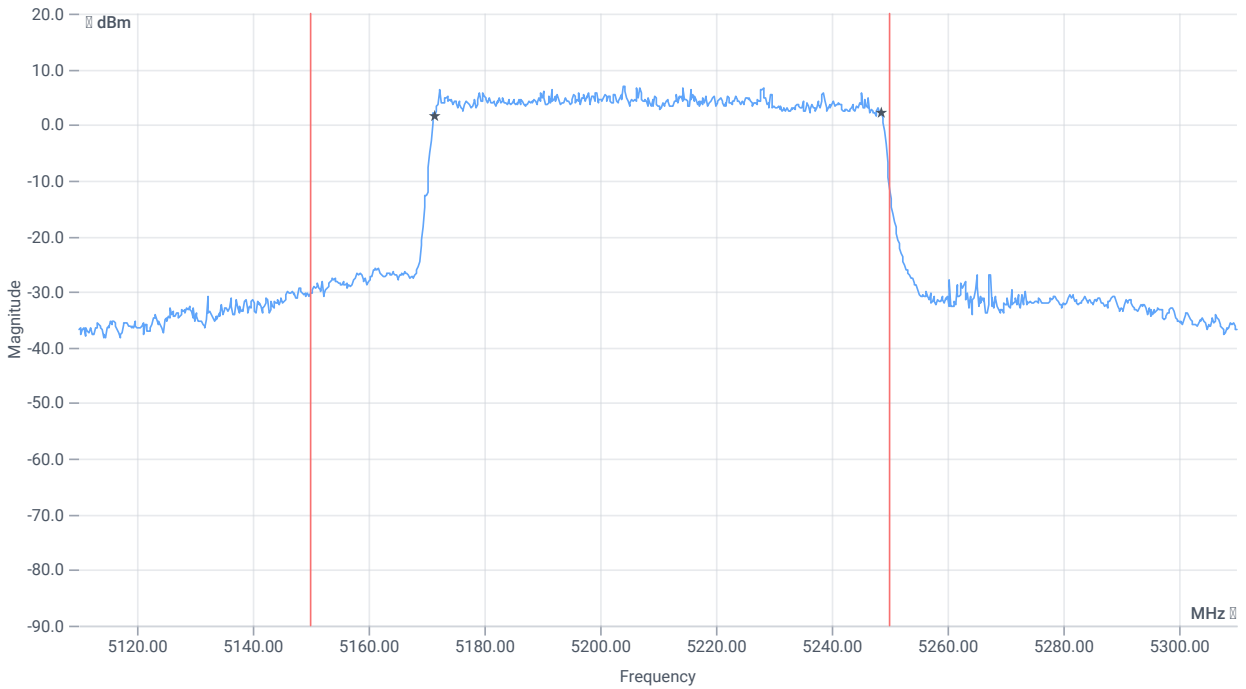
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	5.73	dBm	INFO
Ref. Frequency	--	--	5172.240	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	13.73   16.3   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

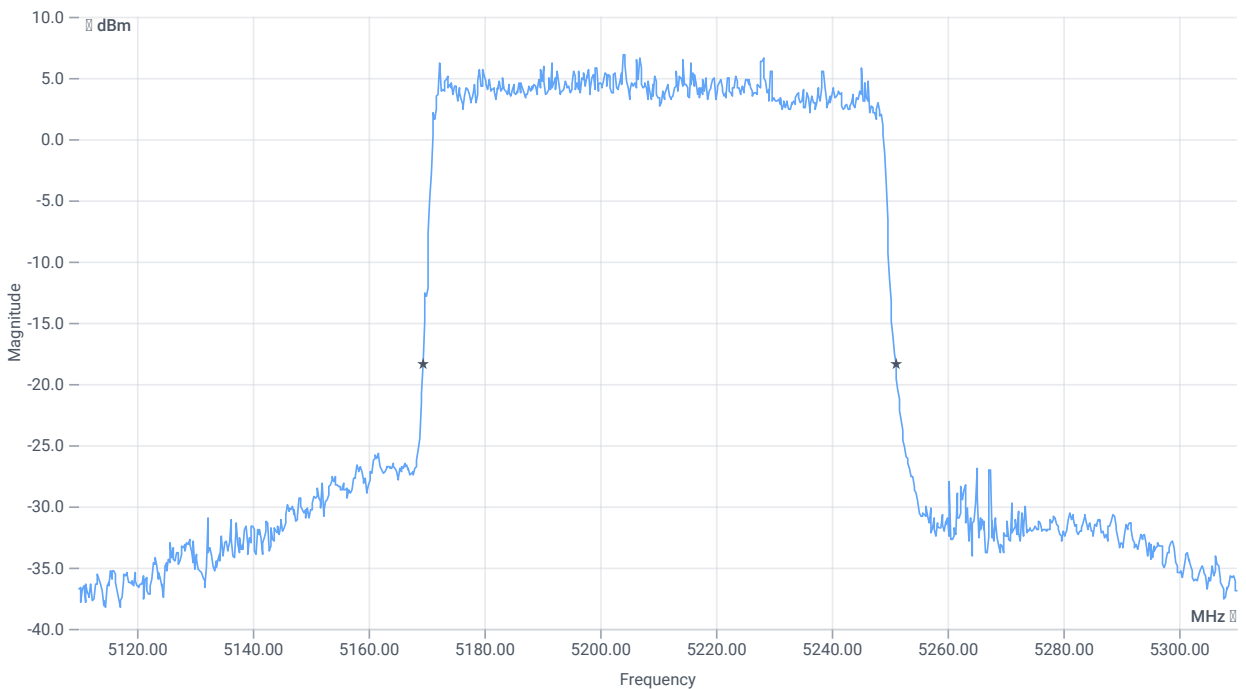




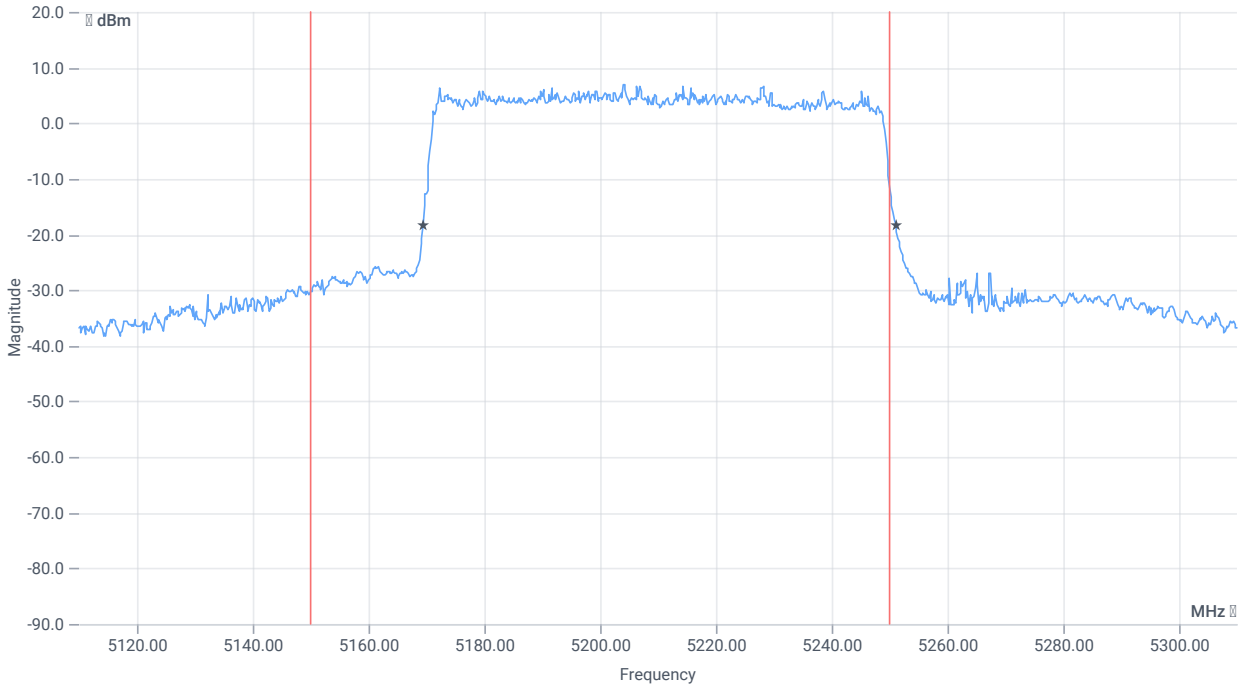
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	77.123	MHz	INFO
T1 99%	5150.000000	--	5171.4386	MHz	PASS
T2 99%	--	5250.000000	5248.5614	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	---	5169.4000	MHz	PASS
T2 26dB	---	5250.000000	5251.0000	MHz	DFS required

Verdict

PASS

# FCC 15.407 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-1

## References

TC start	12.07.2023 14:01:41
Ambit temp [°C]   humidity [rel%]	26.8   51
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-1
Information	

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

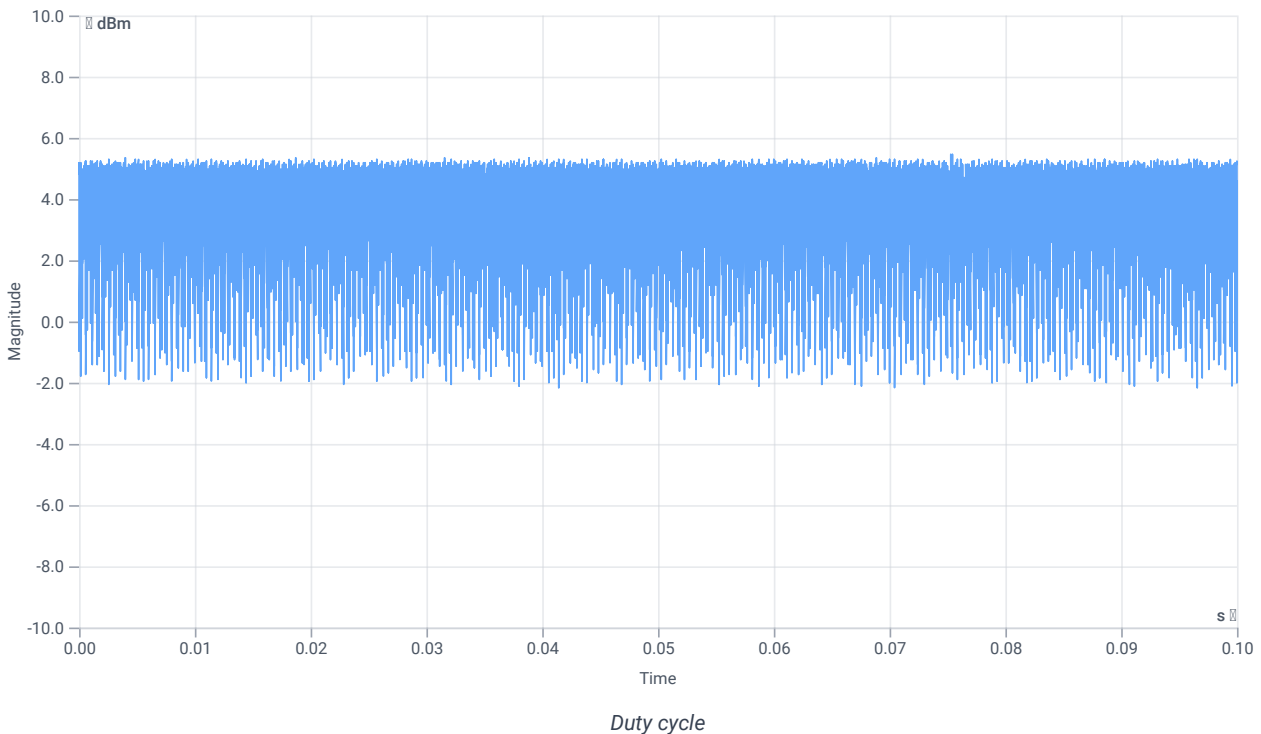
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	5.58	dBm	INFO
Ref. Frequency	--	--	5197.410	MHz	INFO

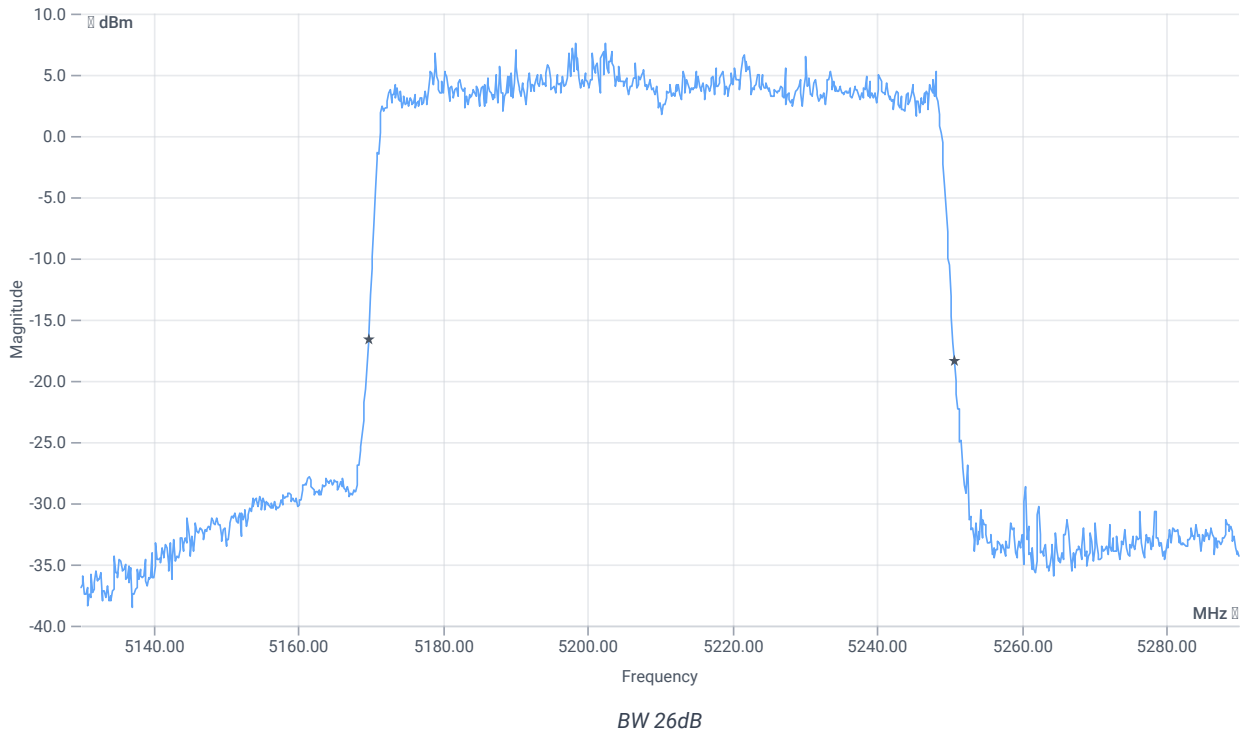
### Evaluation max. Duty Cycle

#### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



### Evaluation Bandwidth



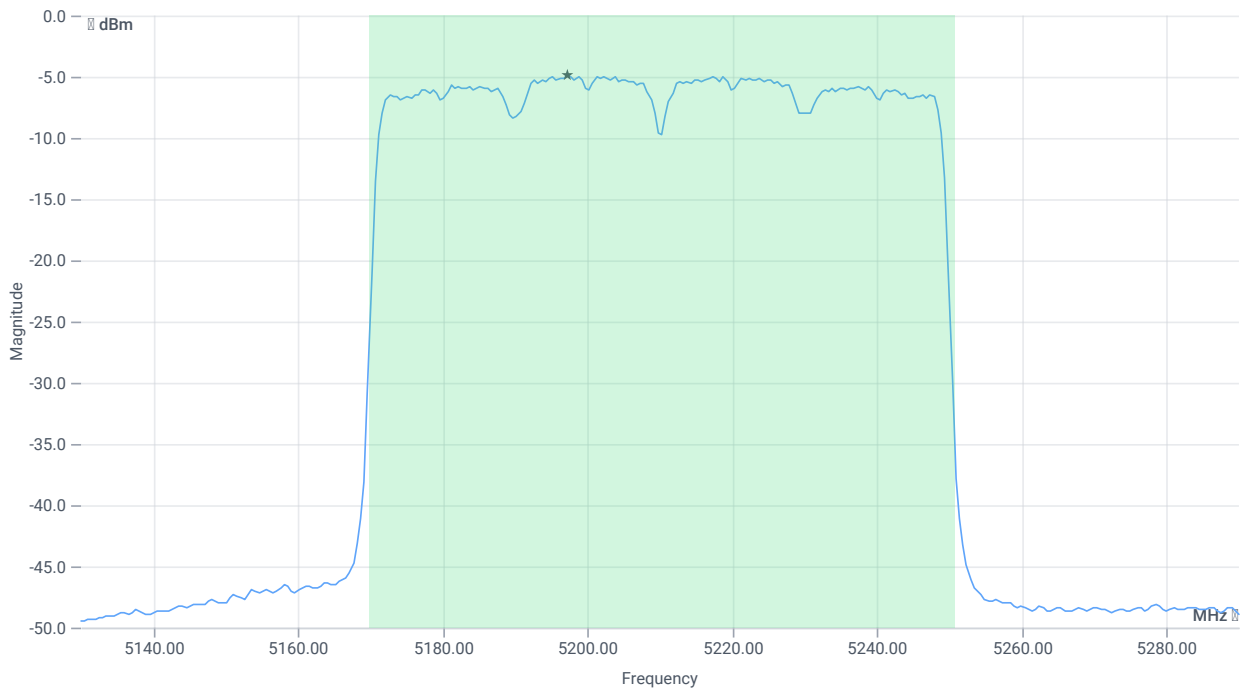
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	80.96	MHz	INFO
T1 26dB	---	---	5169.6800	MHz	INFO
T2 26dB	---	---	5250.6400	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	17.58   16.3   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	--	--	12.61	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	12.61	dBm	PASS
Limit: 11 dBm + 10 log 80.96					
Max Output Power DC corrected	--	30.08	12.61	dBm	na

### Power Spectral Density

#### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	-4.85	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	-4.85	dBm/1MHz	PASS

#### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-1

### References

TC start	12.07.2023 14:04:12
Ambit temp [°C]   humidity [rel%]	26.8   51
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-1
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

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



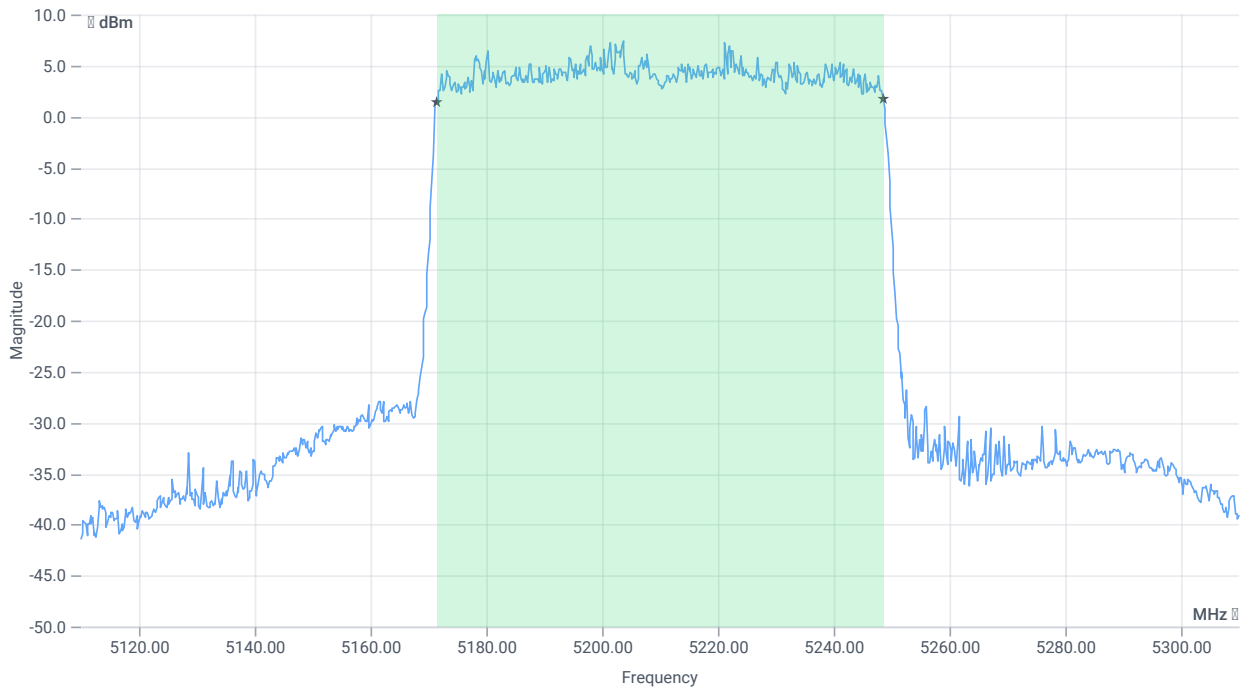
## Test at TX 5210 MHz

RESULT: Reference Power cond.

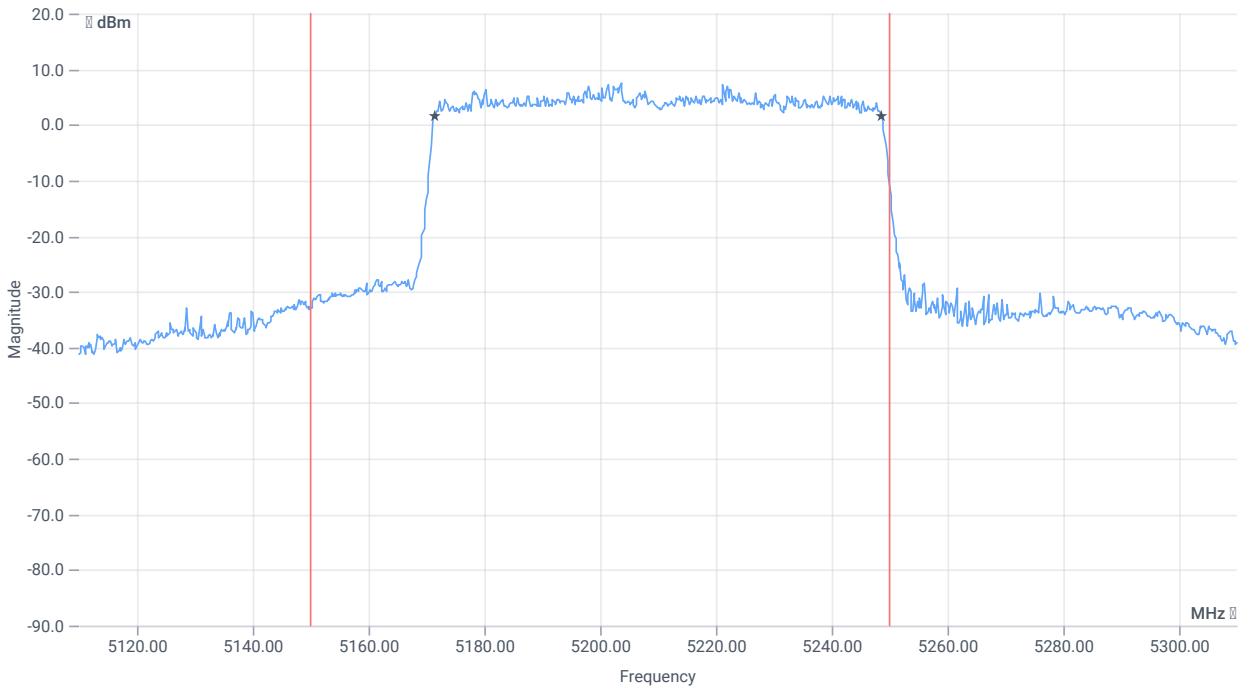
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	3.97	dBm	INFO
Ref. Frequency	--	--	5240.570	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	11.97   16.3   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



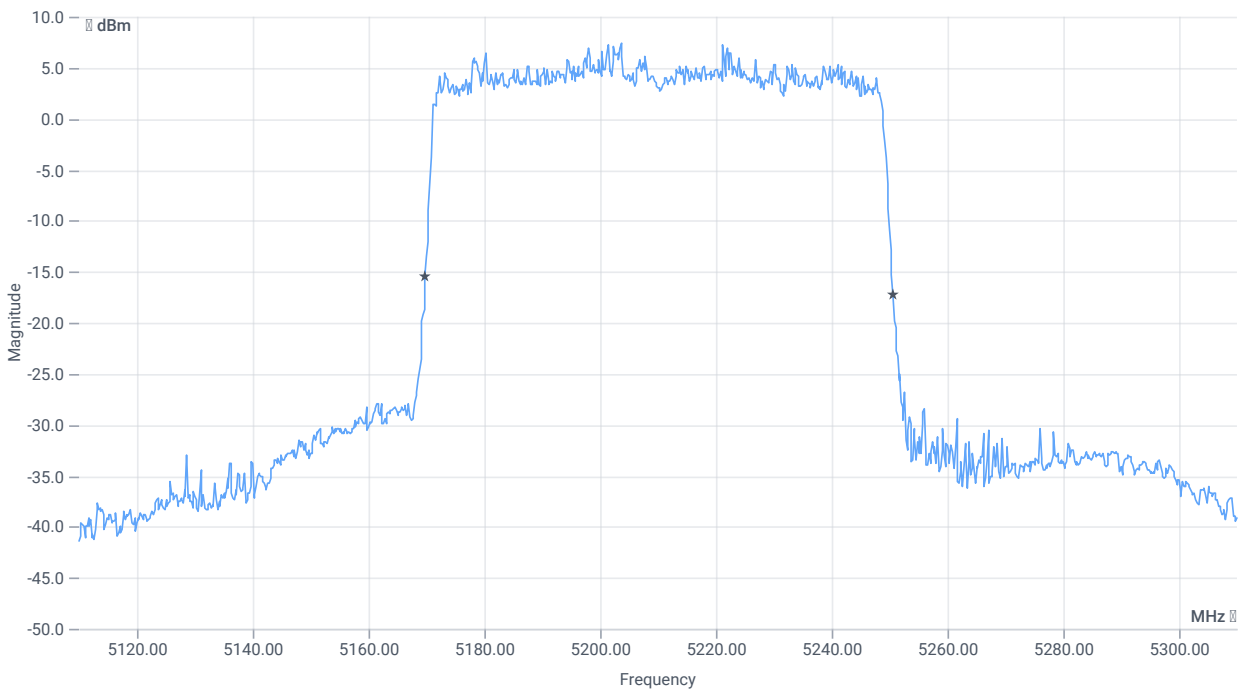
BW 99PCT



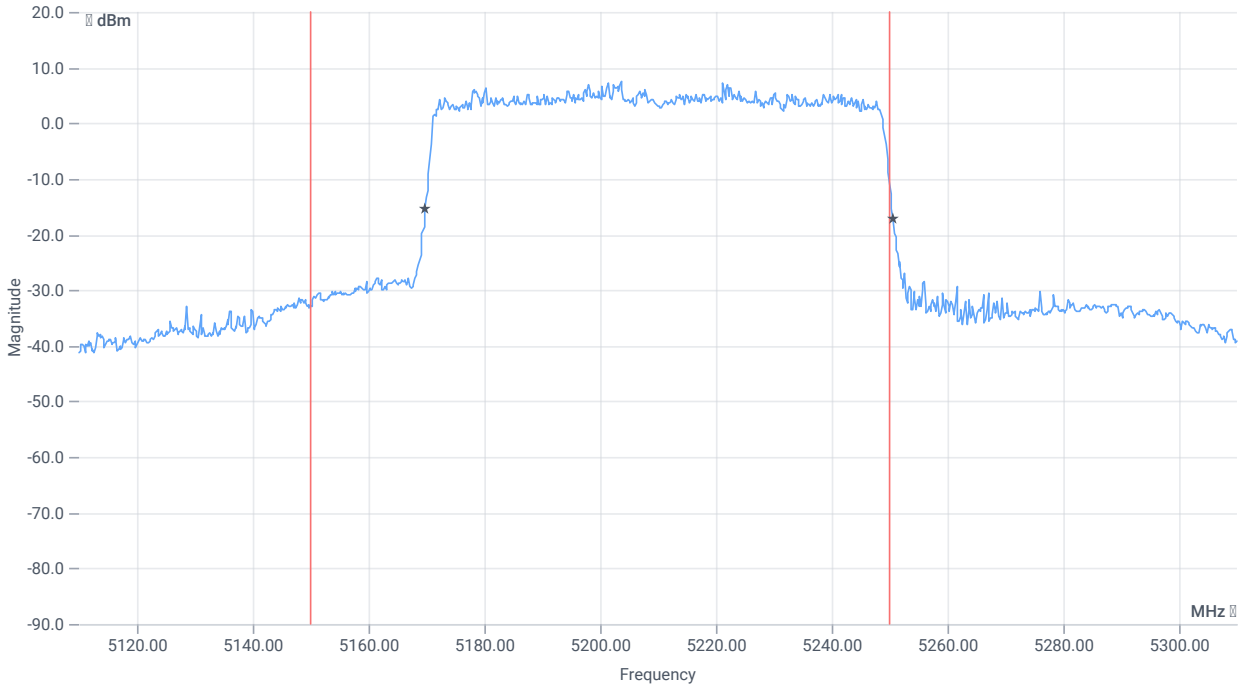
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	77.123	MHz	INFO
T1 99%	5150.000000	--	5171.4386	MHz	PASS
T2 99%	--	5250.000000	5248.5614	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

## # Message with SA scan ~

### References

TC start	12.07.2023 14:04:56
Ambit temp [°C]   humidity [rel%]	26.8   51
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan ax-HE80 U-NII-2A
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	12.07.2023 14:04:57
Message	set WLAN5Gx to ax-HE80 U-NII-2A, Frequency [MHz] 5290 ,

### Equipment

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

### Verdict

INFO

# FCC 15.407 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2A

## References

TC start	12.07.2023 14:12:57
Ambit temp [°C]   humidity [rel%]	26.9   51
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-2A
Information	

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

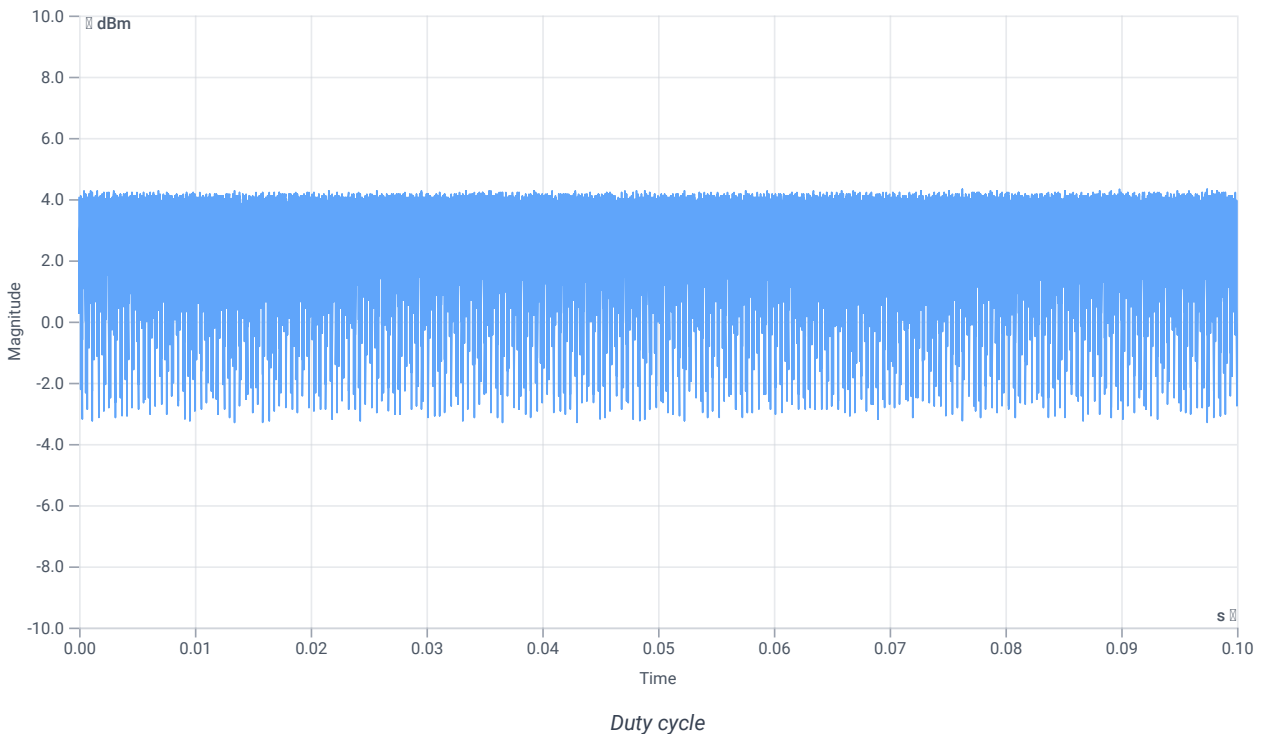
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	5.67	dBm	INFO
Ref. Frequency	--	--	5307.780	MHz	INFO

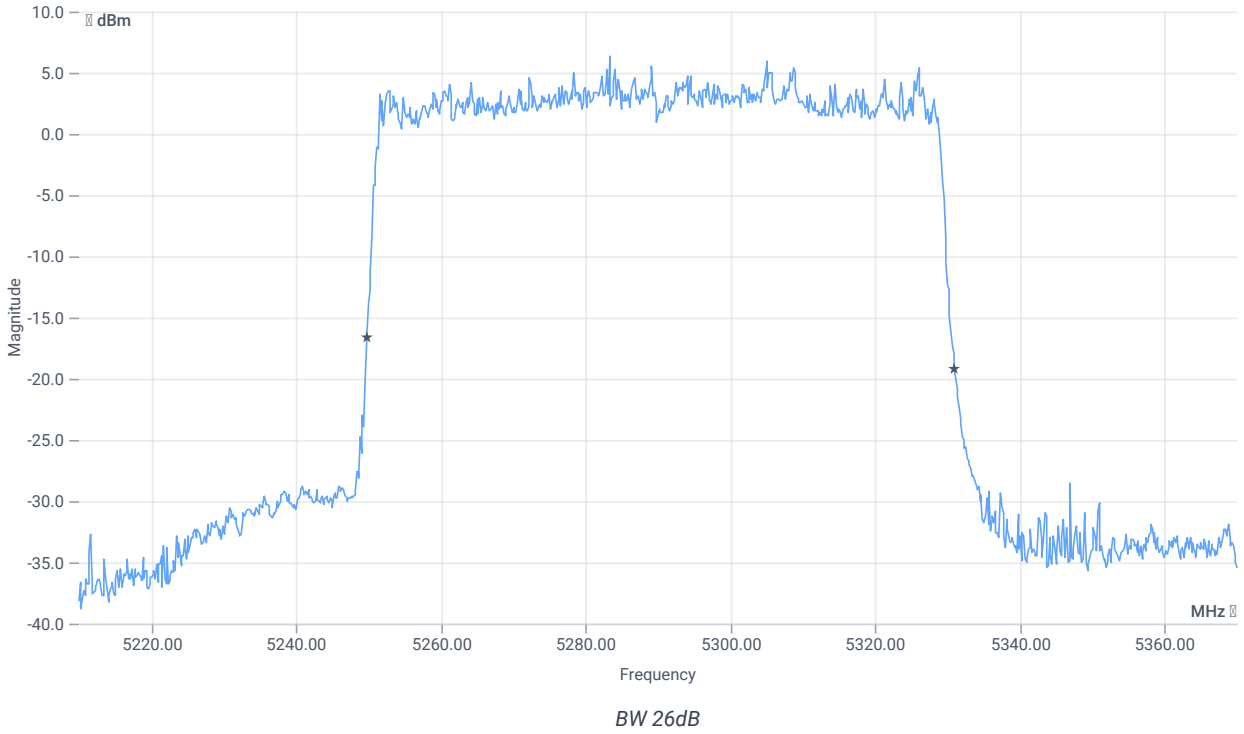
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



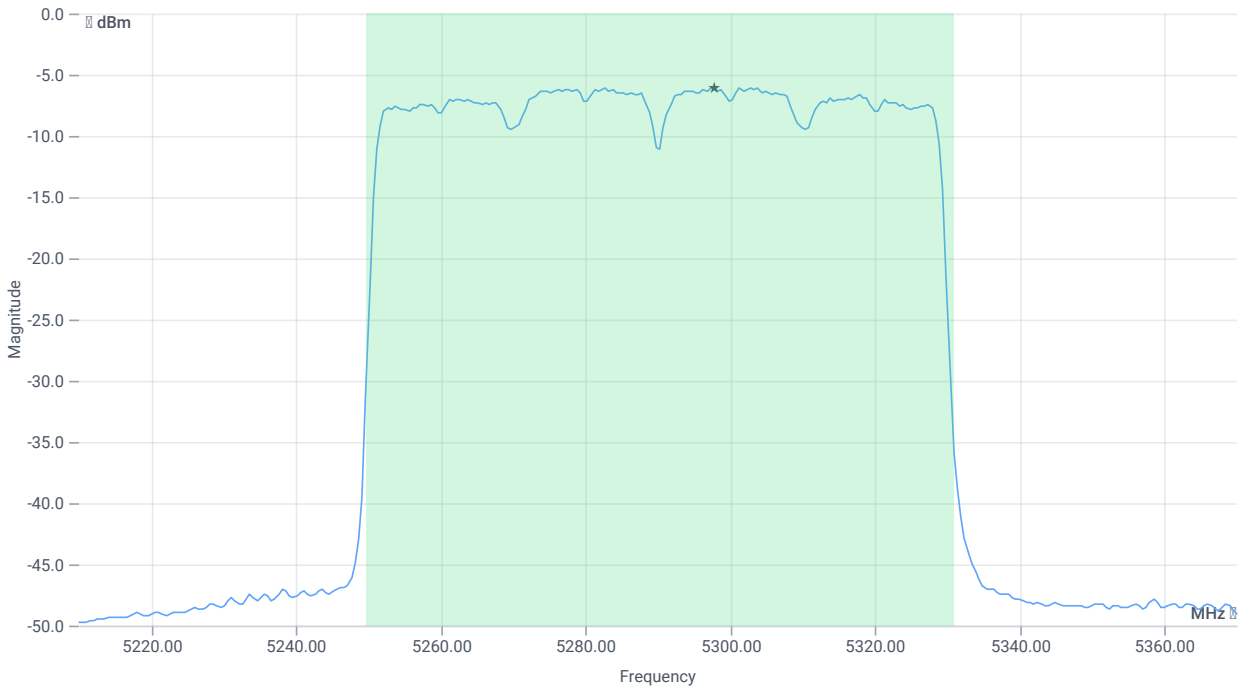
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	81.28	MHz	INFO
T1 26dB	---	---	5249.6800	MHz	INFO
T2 26dB	---	---	5330.9600	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	17.67   16.1   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	--	--	11.47	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	11.47	dBm	PASS
Limit: 11 dBm + 10 log 81.28					
Max Output Power DC corrected	--	30.1	11.47	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	-6.08	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	-6.08	dBm/1MHz	PASS

### Verdict

PASS



# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-2A

## References

TC start	12.07.2023 14:15:28
Ambit temp [°C]   humidity [rel%]	26.9   51
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-2A
Information	

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

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

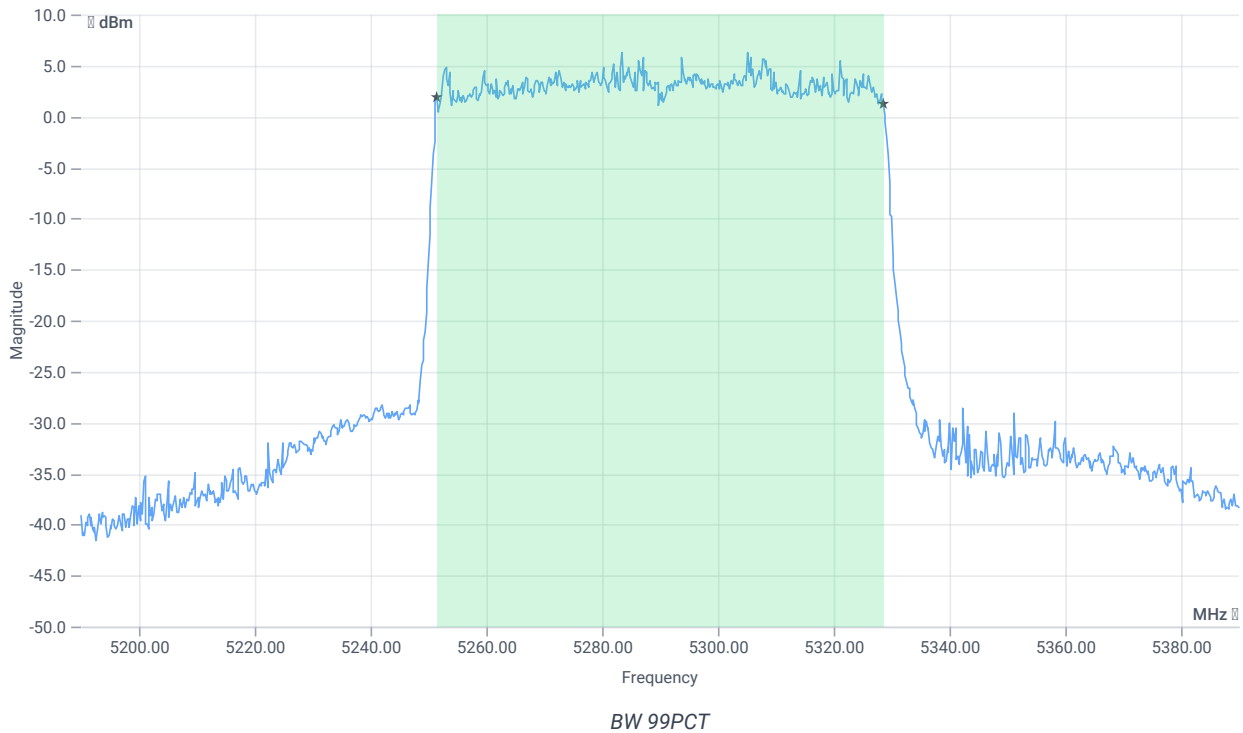
## Test at TX 5290 MHz

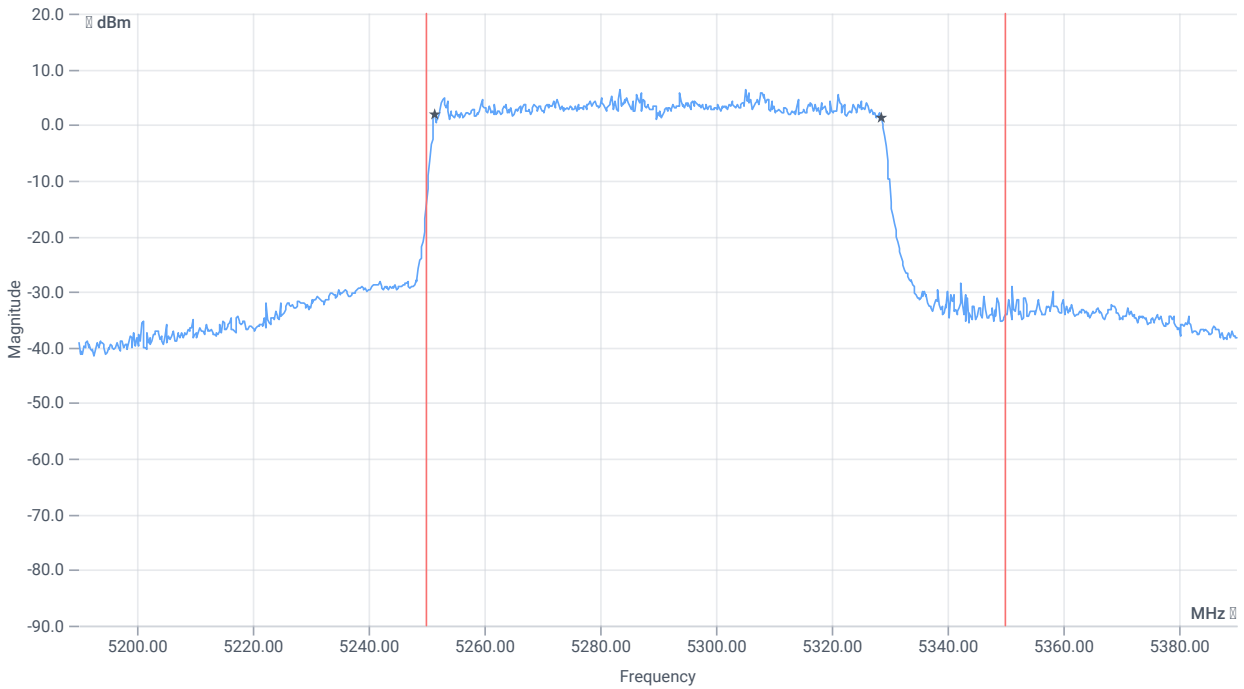
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	4.09	dBm	INFO
Ref. Frequency	--	--	5277.010	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	12.09   16.1   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

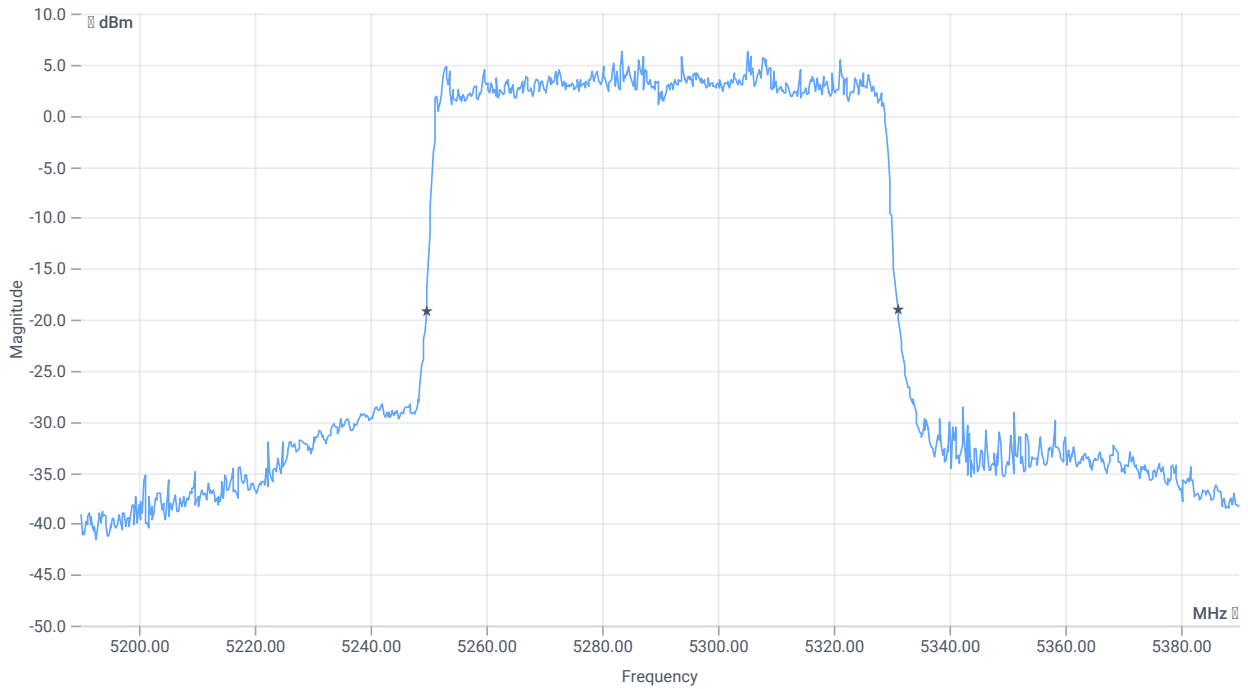




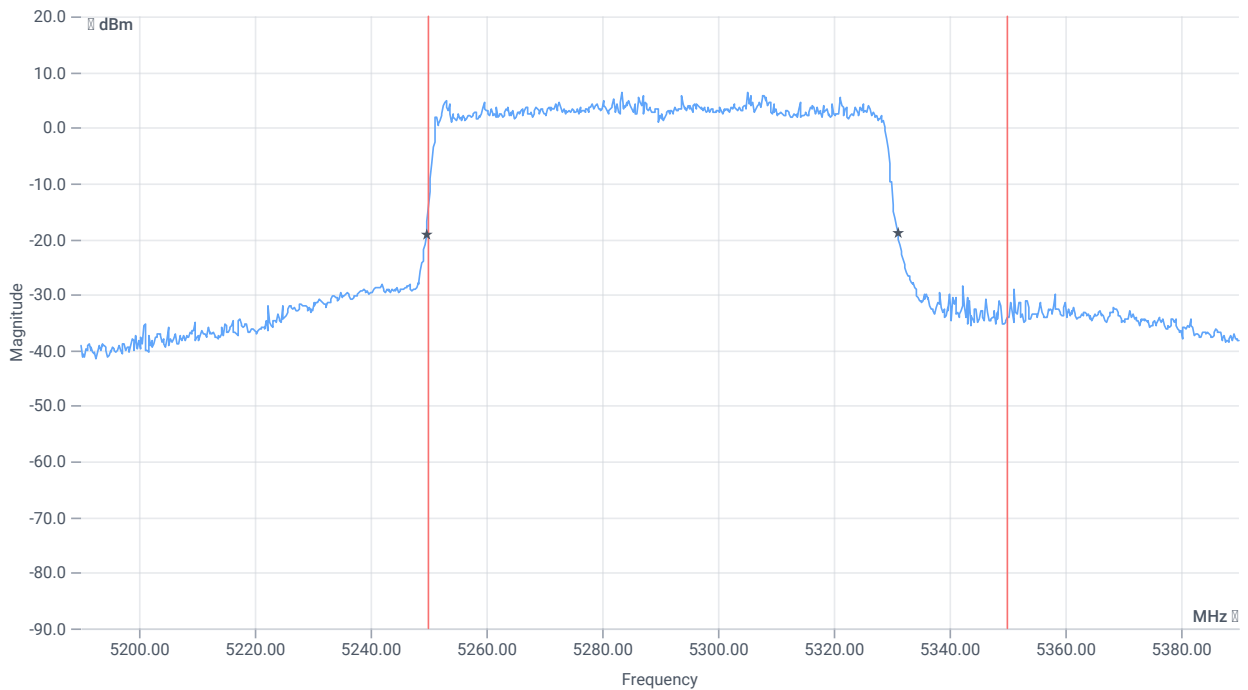
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	77.123	MHz	INFO
T1 99%	5250.000000	--	5251.4386	MHz	PASS since U-NII-1 is supported
T2 99%	--	5350.000000	5328.5614	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 ax-HE80 U-NII-2A

### References

TC start	12.07.2023 14:16:08
Ambit temp [°C]   humidity [rel%]	26.9   51
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-2A
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

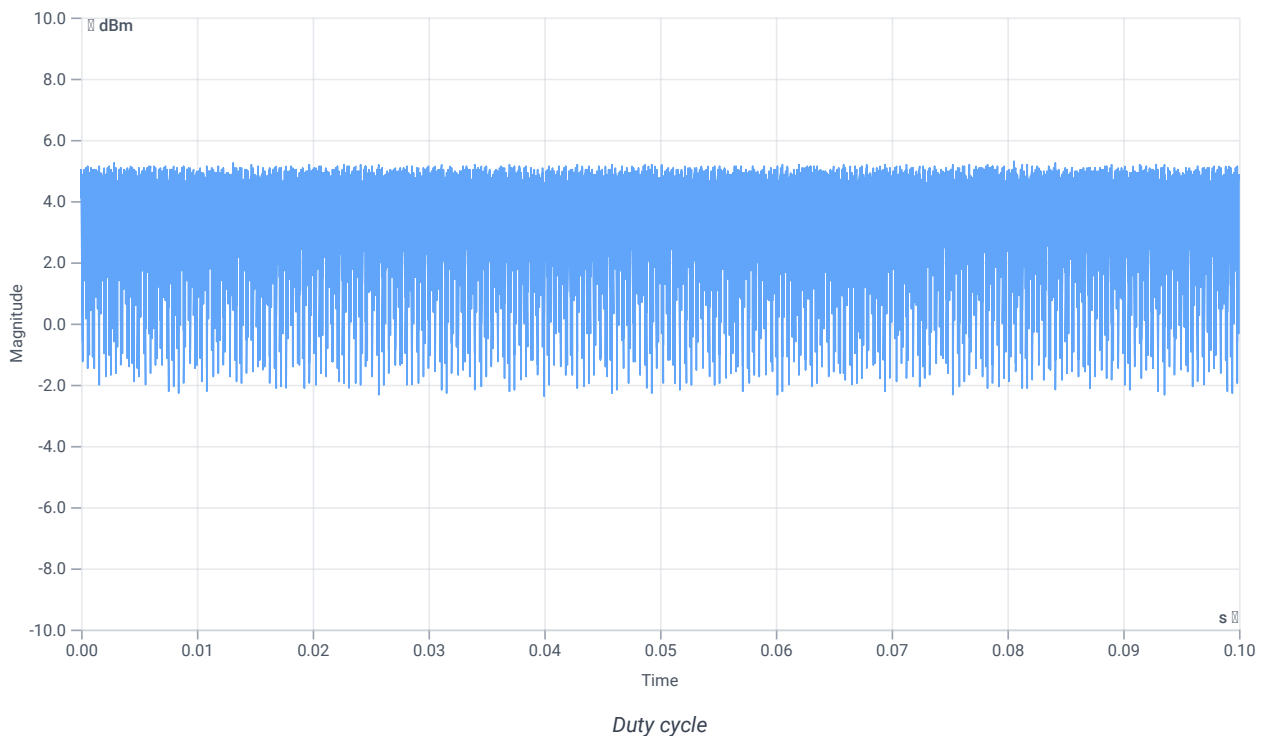
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	4.53	dBm	INFO
Ref. Frequency	--	--	5303.790	MHz	INFO

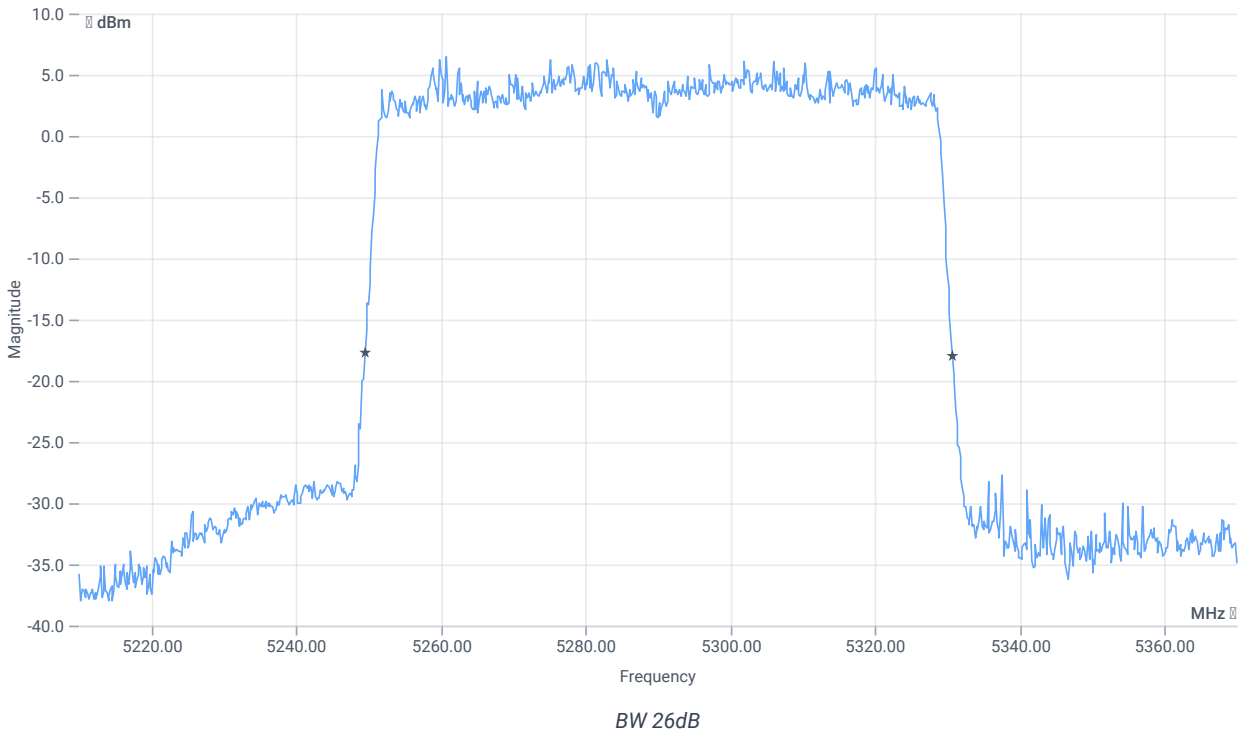
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



## RESULT

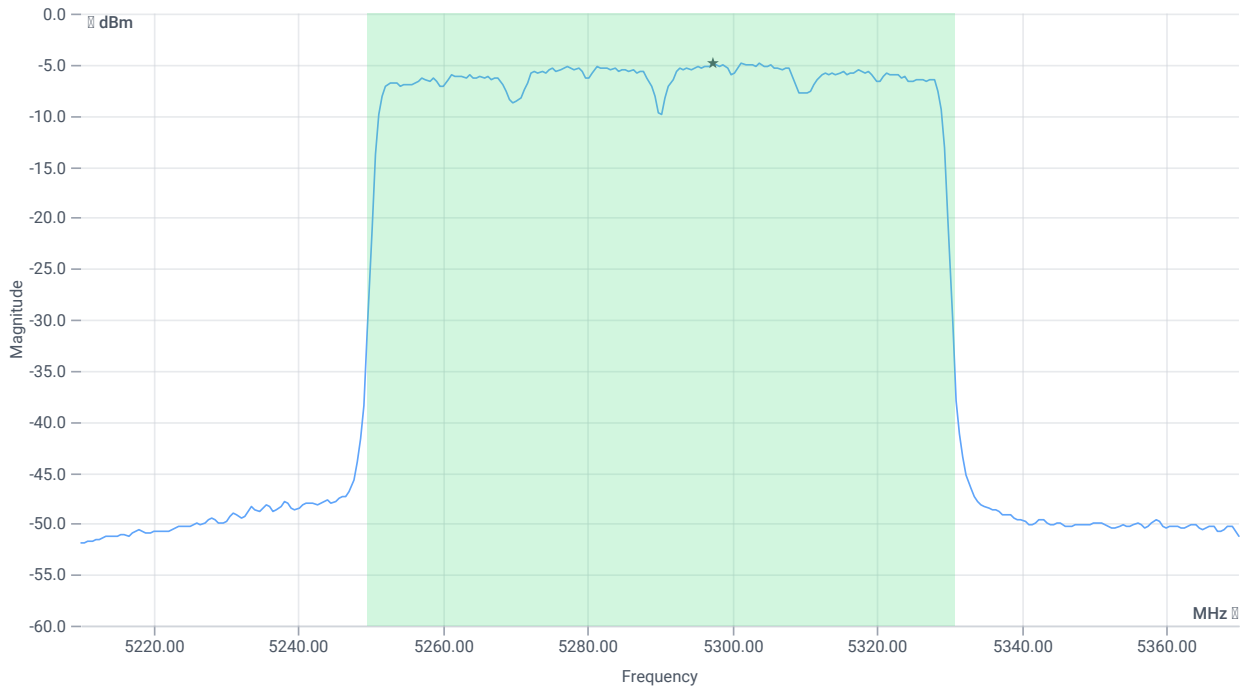
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	81.12	MHz	INFO
T1 26dB	---	---	5249.5200	MHz	INFO
T2 26dB	---	---	5330.6400	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	16.53   16.1   15
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	--	--	12.53	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	12.53	dBm	PASS
Limit: 11 dBm + 10 log 81.12					
Max Output Power DC corrected	--	30.09	12.53	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	-4.91	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	-4.91	dBm/1MHz	PASS

### Verdict

PASS

# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-2A

## References

TC start	12.07.2023 14:18:39
Ambit temp [°C]   humidity [rel%]	26.9   51
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-2A
Information	

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

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

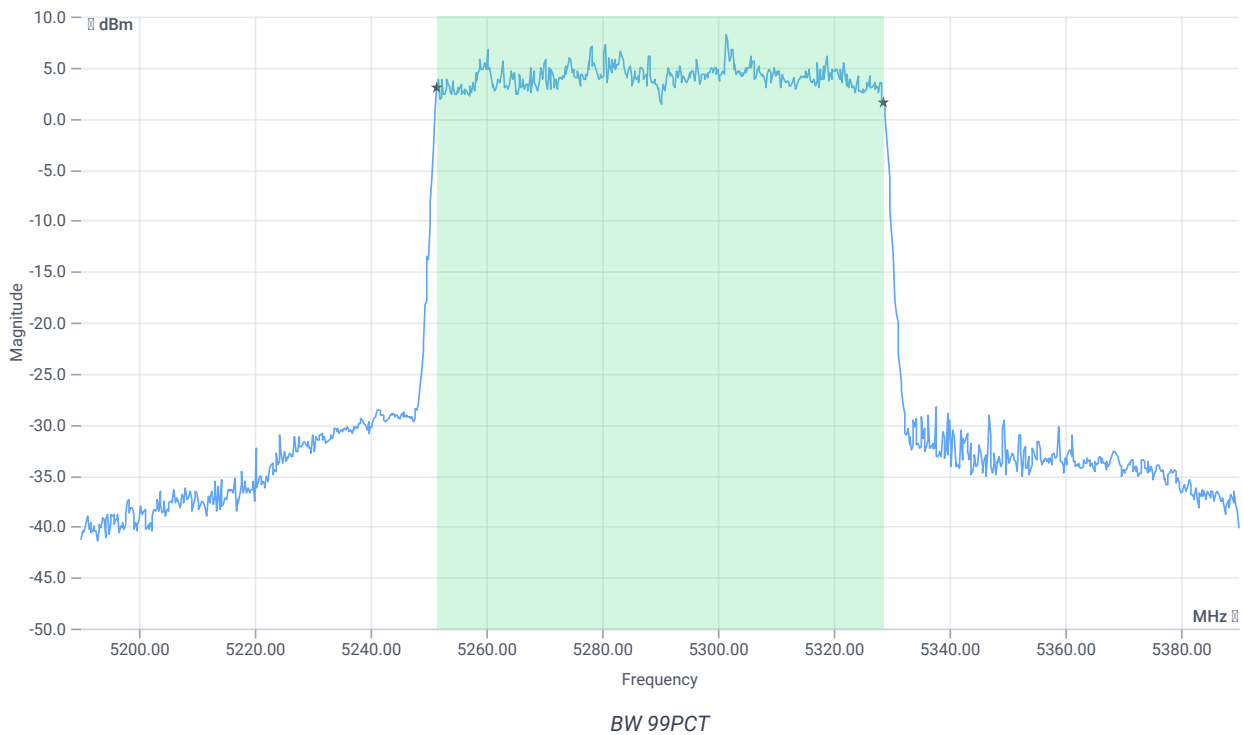
## Test at TX 5290 MHz

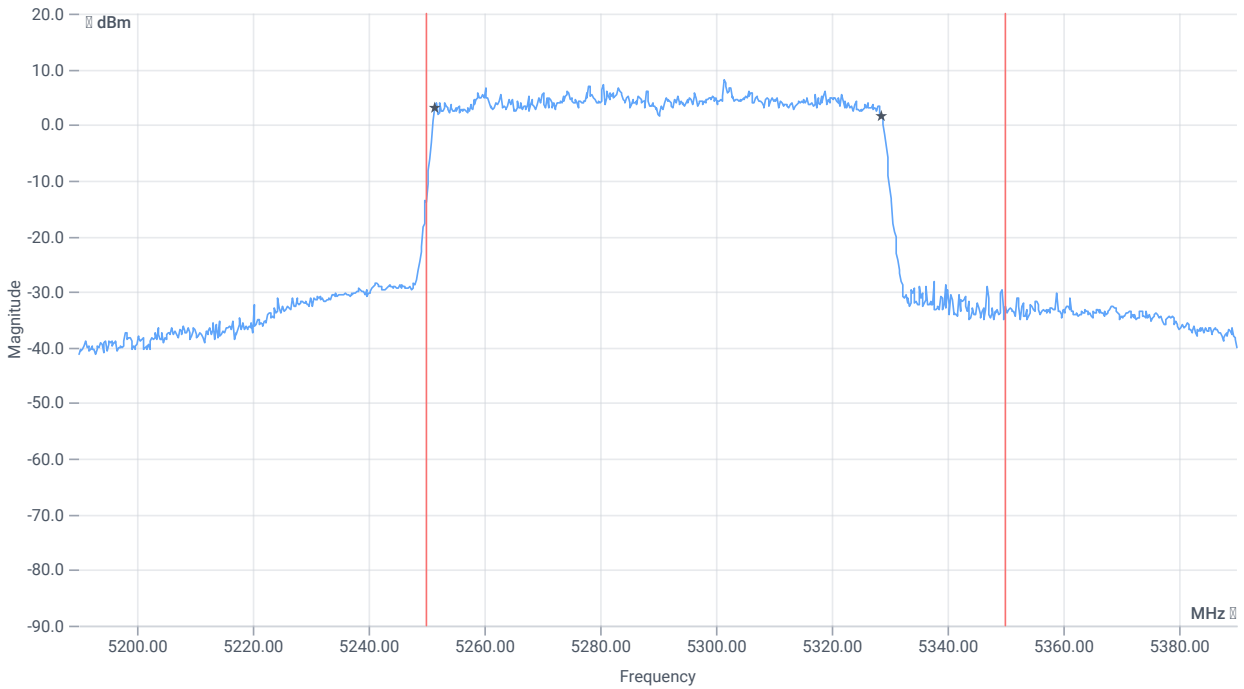
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	5.40	dBm	INFO
Ref. Frequency	--	--	5277.410	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	13.40   16.1   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

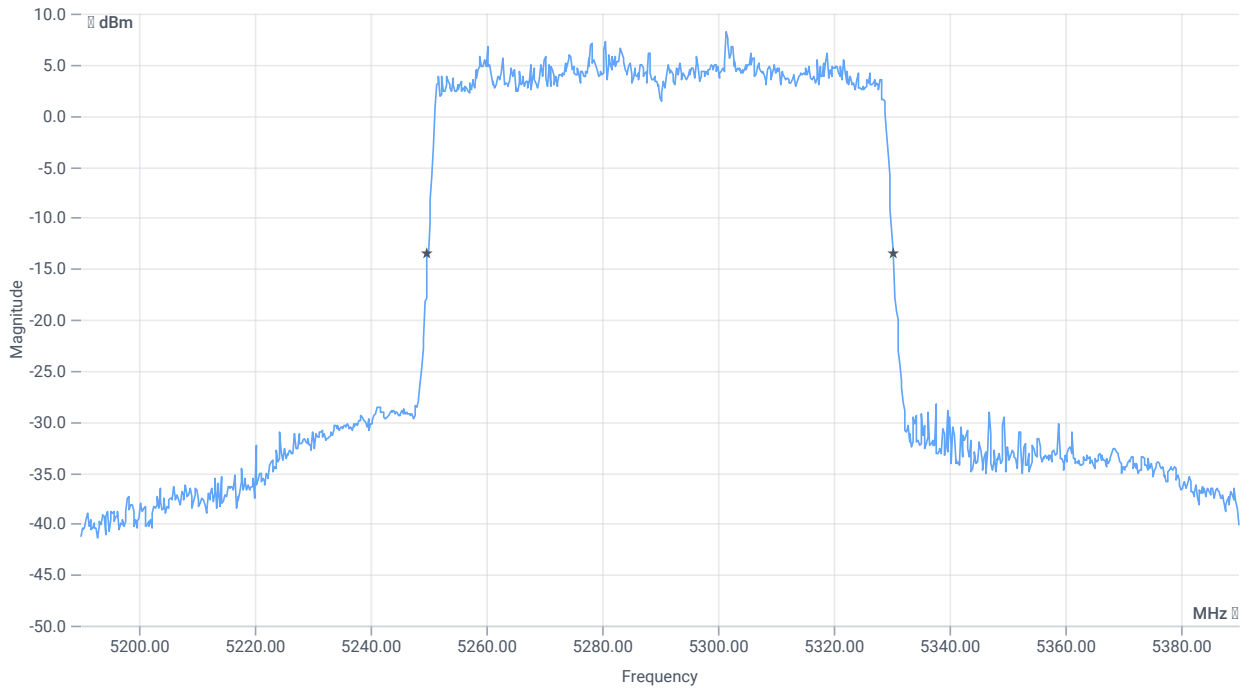




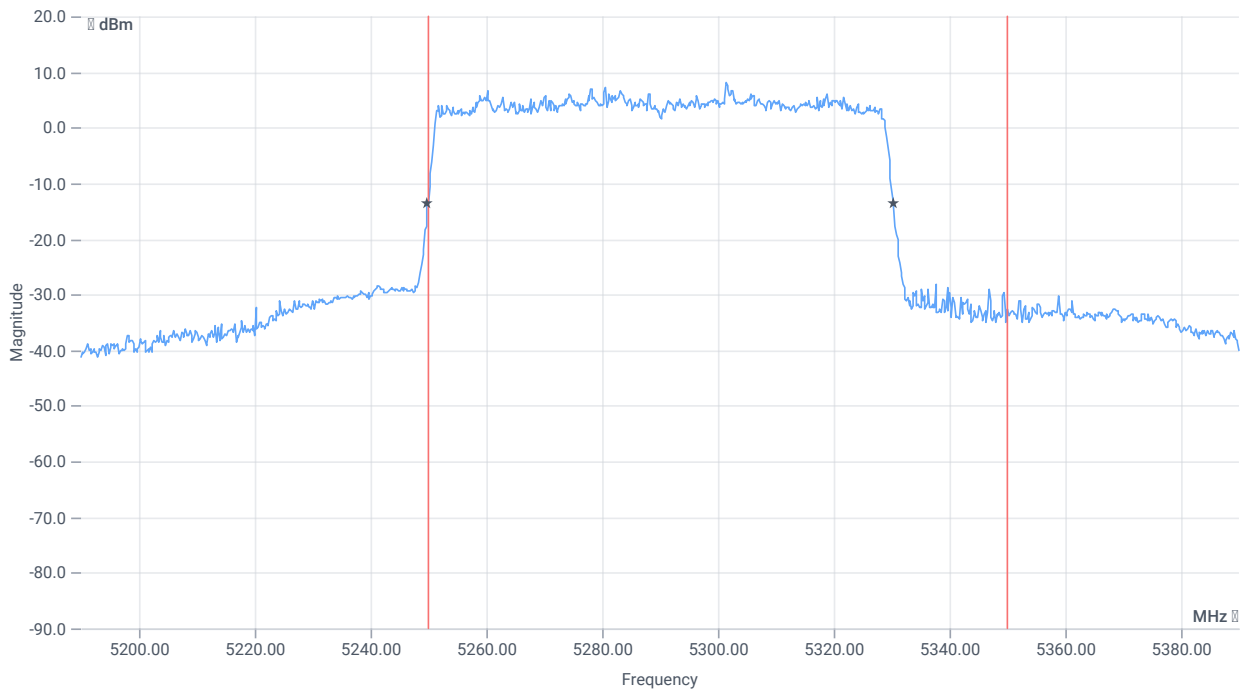
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	77.123	MHz	INFO
T1 99%	5250.000000	--	5251.4386	MHz	PASS since U-NII-1 is supported
T2 99%	--	5350.000000	5328.5614	MHz	PASS



*BW 26dB*



*BW within Band 26dB*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	80.6	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5250.000000	--	5249.8000	MHz	PASS since U-NII-1 is supported
T2 26dB	--	5350.000000	5330.4000	MHz	PASS

Verdict

PASS

## # Message with SA scan ~

### References

TC start	12.07.2023 14:19:19
Ambit temp [°C]   humidity [rel%]	26.9   51
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan ax_HE80_U_NII_2C
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	12.07.2023 14:19:20
Message	set WLAN5Gx to ax_HE80_U_NII_2C, Frequency [MHz] 5530 , 5690

### Equipment

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

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C

### References

TC start	12.07.2023 14:20:01
Ambit temp [°C]   humidity [rel%]	26.9   51
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

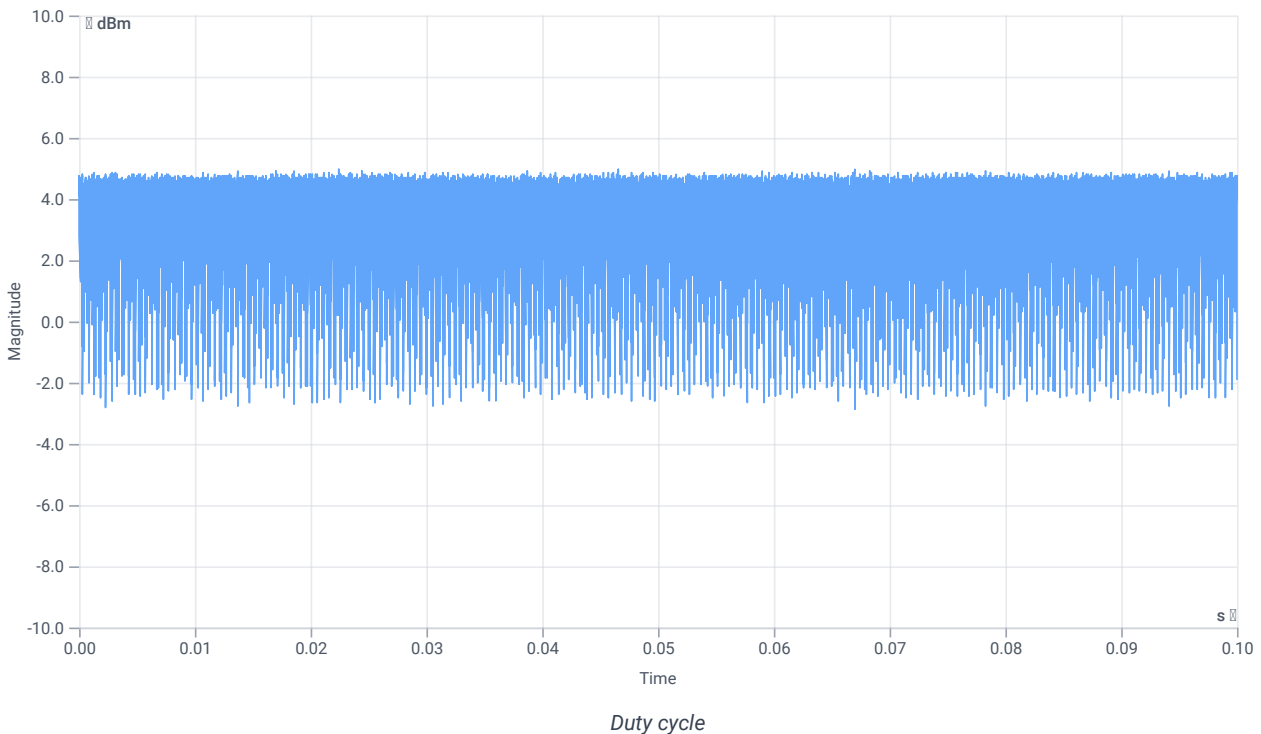
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	4.57	dBm	INFO
Ref. Frequency	--	--	5521.610	MHz	INFO

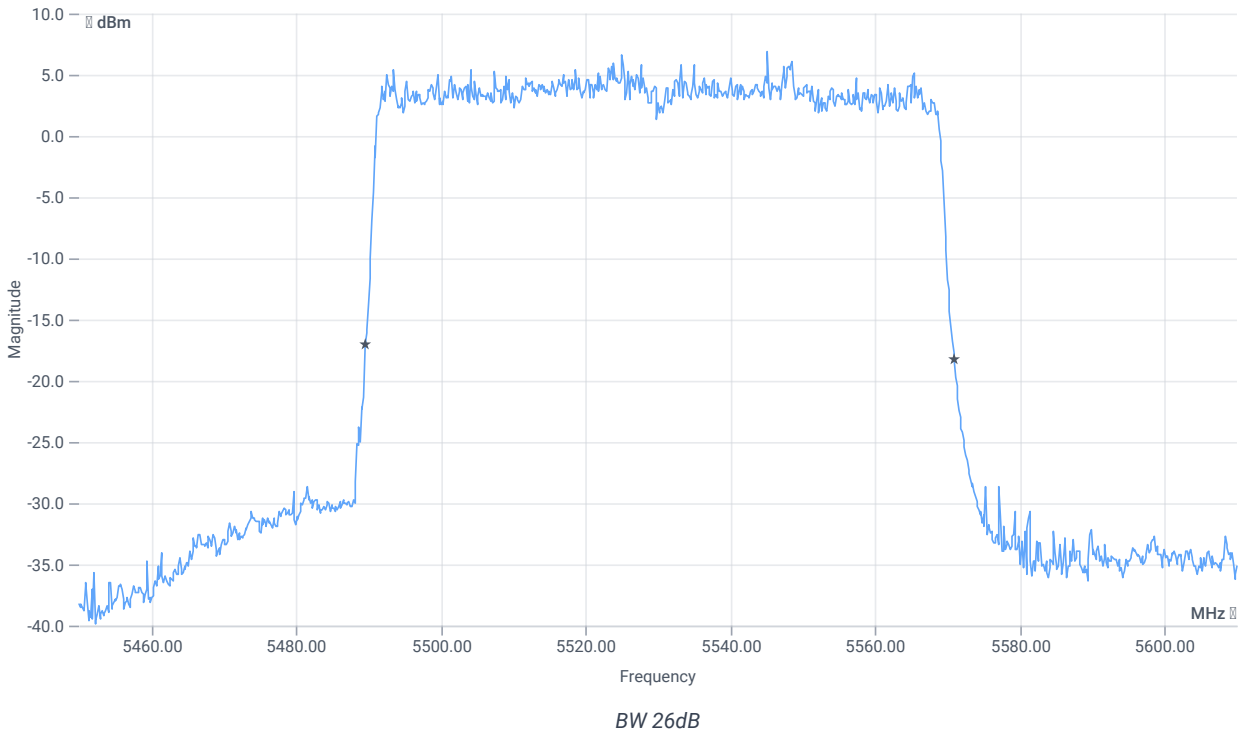
### Evaluation max. Duty Cycle

#### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



### Evaluation Bandwidth



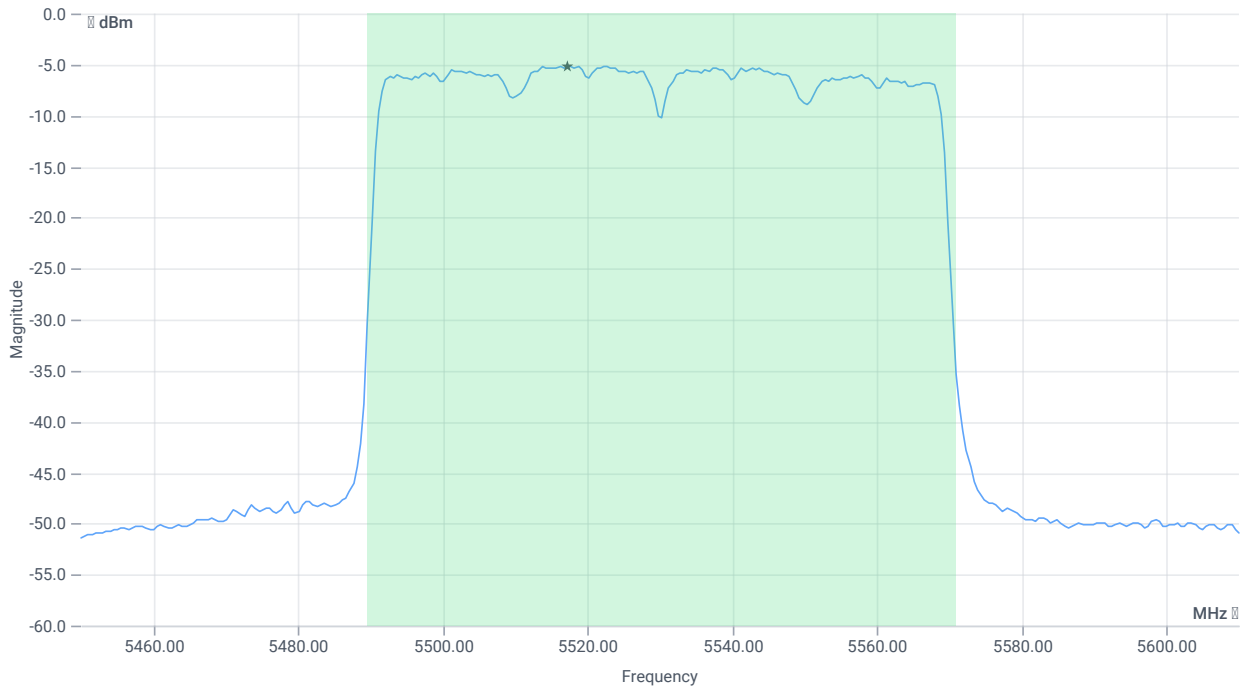
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	81.44	MHz	INFO
T1 26dB	---	---	5489.5200	MHz	INFO
T2 26dB	---	---	5570.9600	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	16.57   16.77   15
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	--	--	12.41	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	12.41	dBm	PASS
Limit: 11 dBm + 10 log 81.44					
Max Output Power DC corrected	--	30.11	12.41	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	-5.12	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	-5.12	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-2C

### References

TC start	12.07.2023 14:22:29
Ambit temp [°C]   humidity [rel%]	26.9   50
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

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

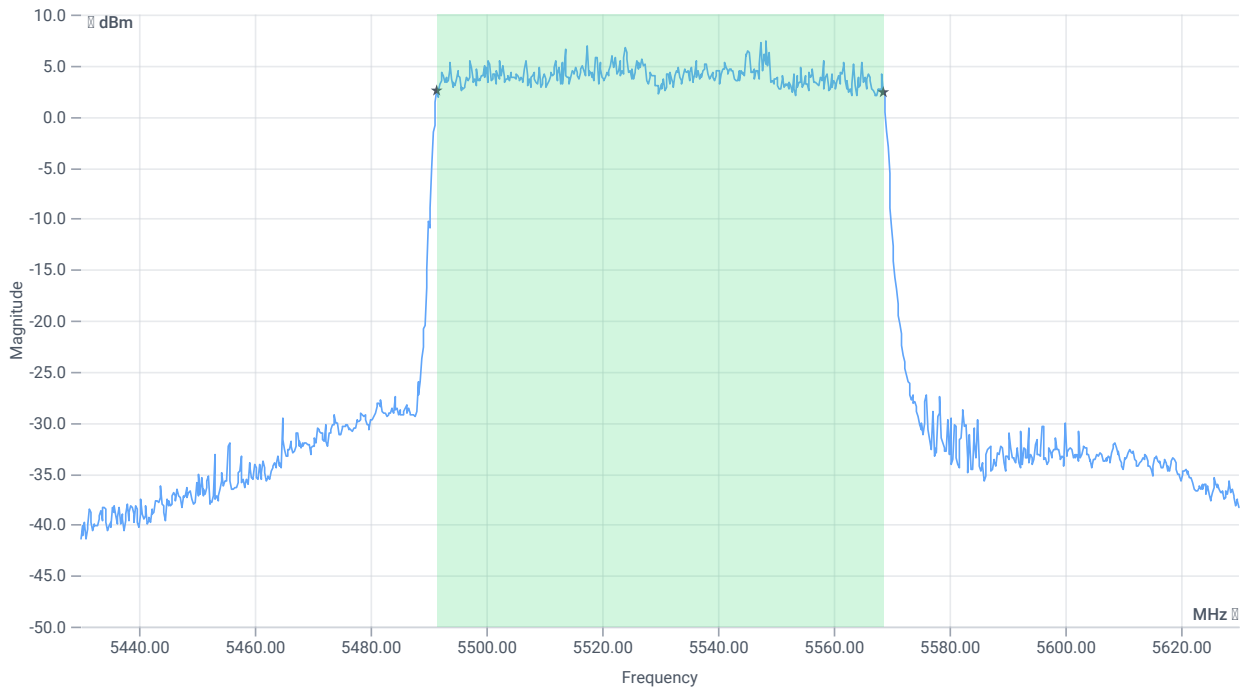
## Test at TX 5530 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	6.43	dBm	INFO
Ref. Frequency	--	--	5560.570	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	14.43   16.77   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



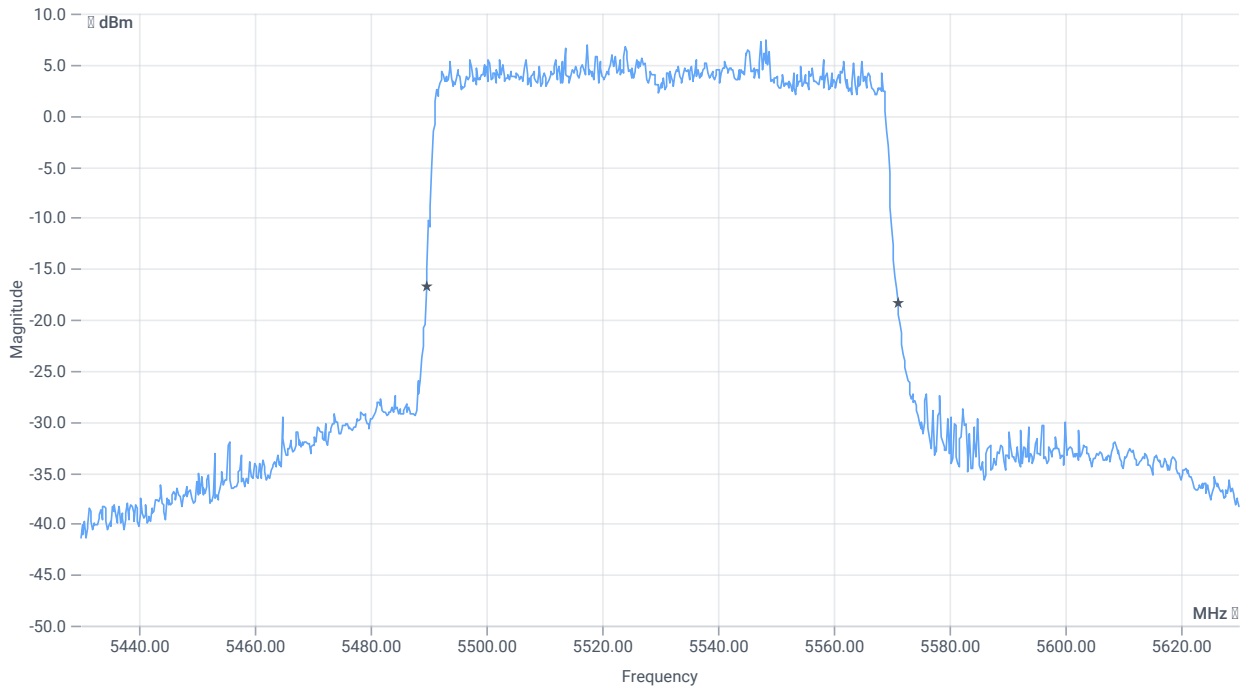
BW 99PCT



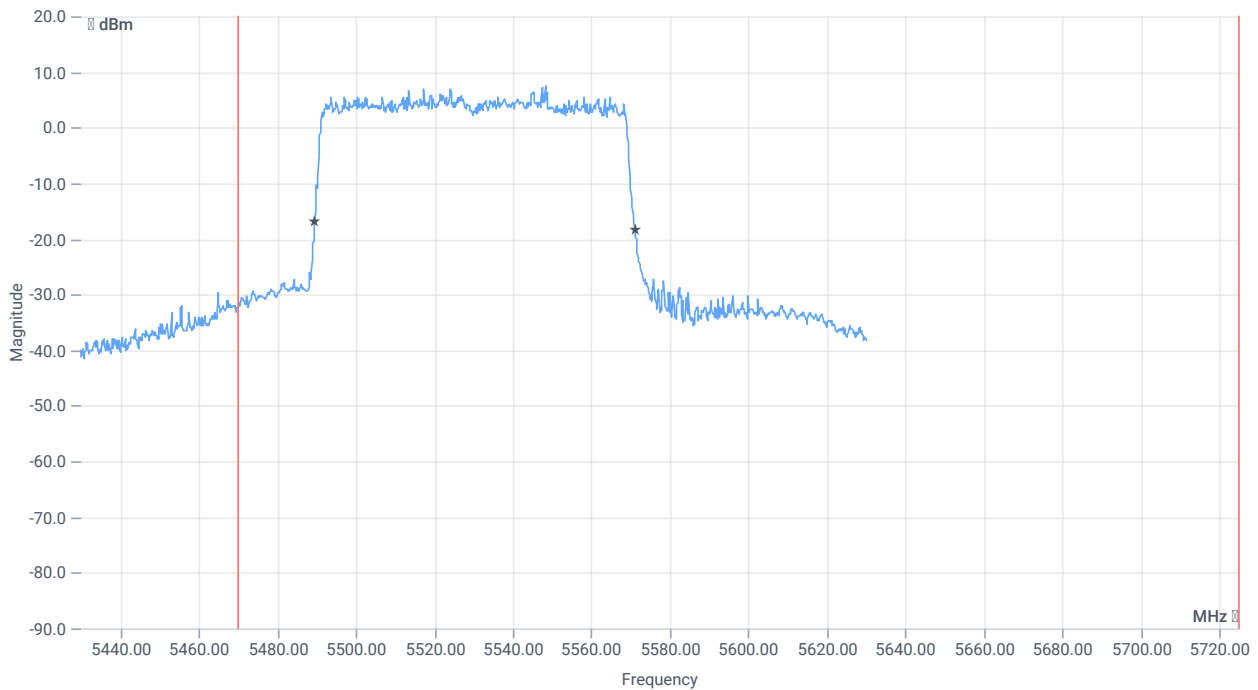
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	77.123	MHz	INFO
T1 99%	5470.000000	--	5491.4386	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5568.5614	MHz	



*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	5470.000000	--	5489.6000	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 ax-HE80 U-NII-2C

### References

TC start	12.07.2023 14:23:05
Ambit temp [°C]   humidity [rel%]	26.9   50
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

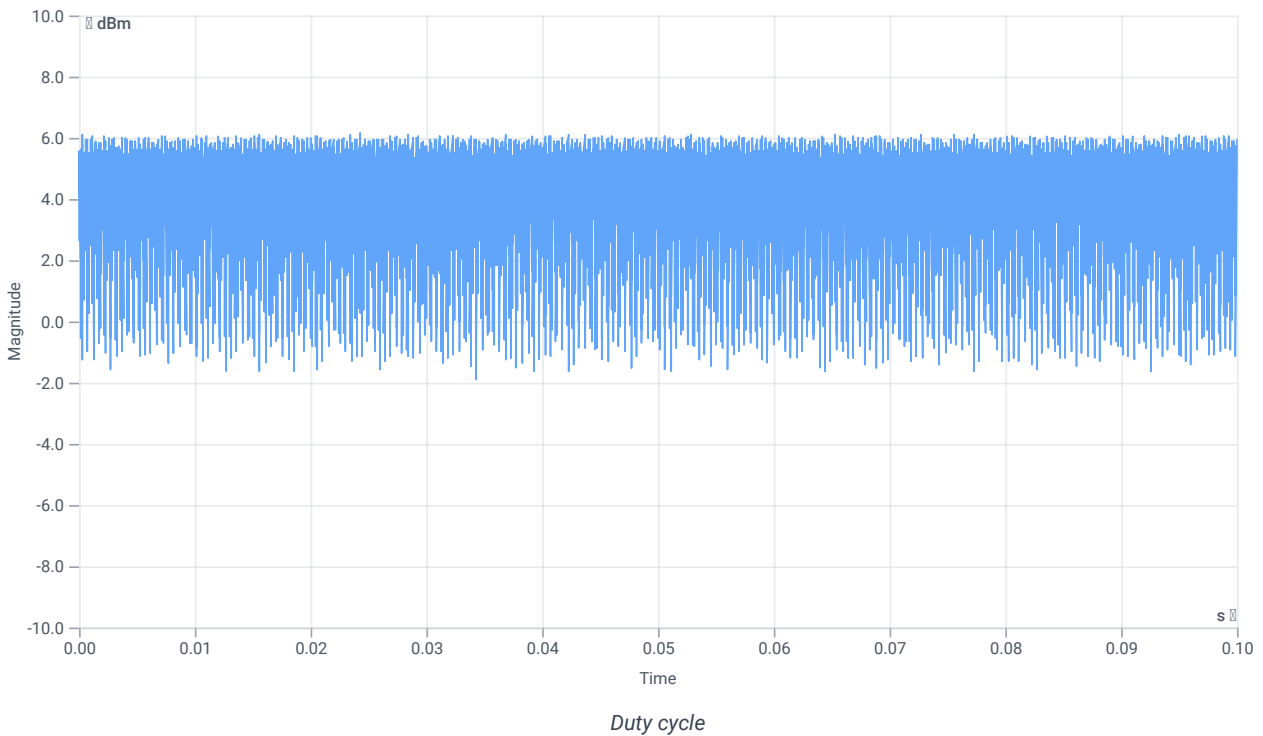
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	5.68	dBm	INFO
Ref. Frequency	--	--	5514.220	MHz	INFO

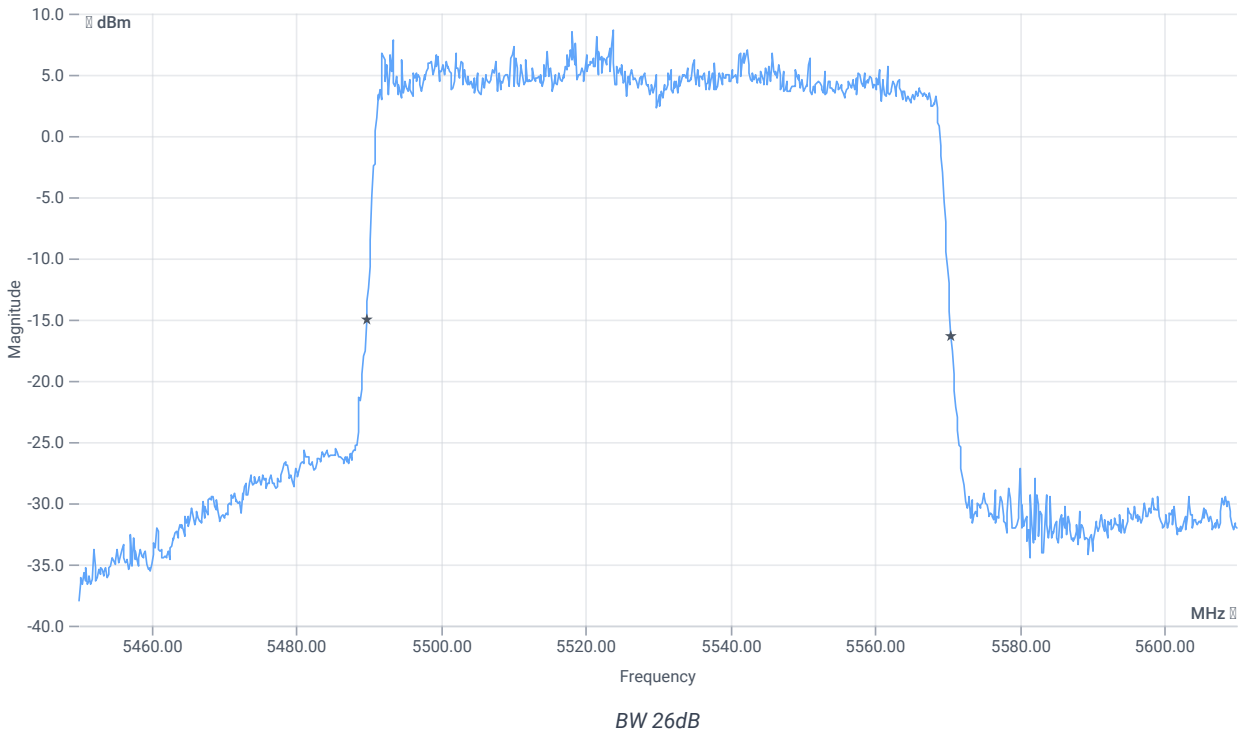
### Evaluation max. Duty Cycle

#### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



### Evaluation Bandwidth



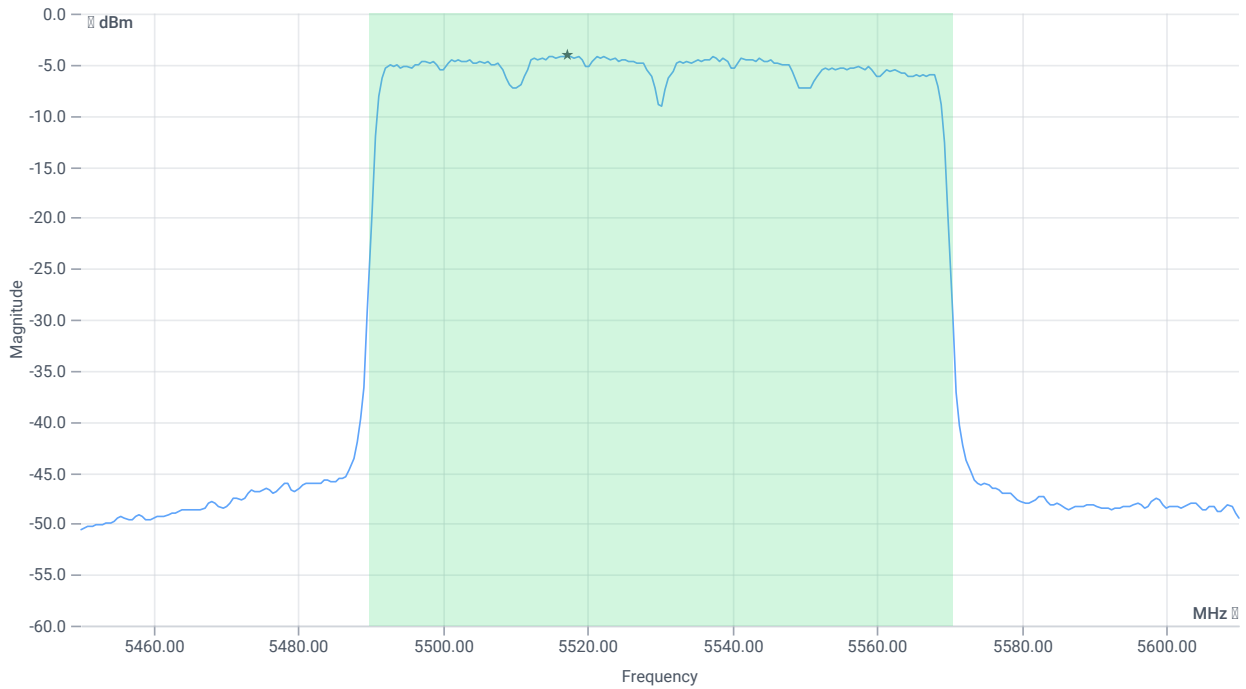
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	80.8	MHz	INFO
T1 26dB	---	---	5489.6800	MHz	INFO
T2 26dB	---	---	5570.4800	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	17.68   16.77   15
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	--	--	13.46	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	13.46	dBm	PASS
Limit: 11 dBm + 10 log 80.8					
Max Output Power DC corrected	--	30.07	13.46	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	-4.02	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	-4.02	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-2C

### References

TC start	12.07.2023 14:25:33
Ambit temp [°C]   humidity [rel%]	26.9   50
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

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

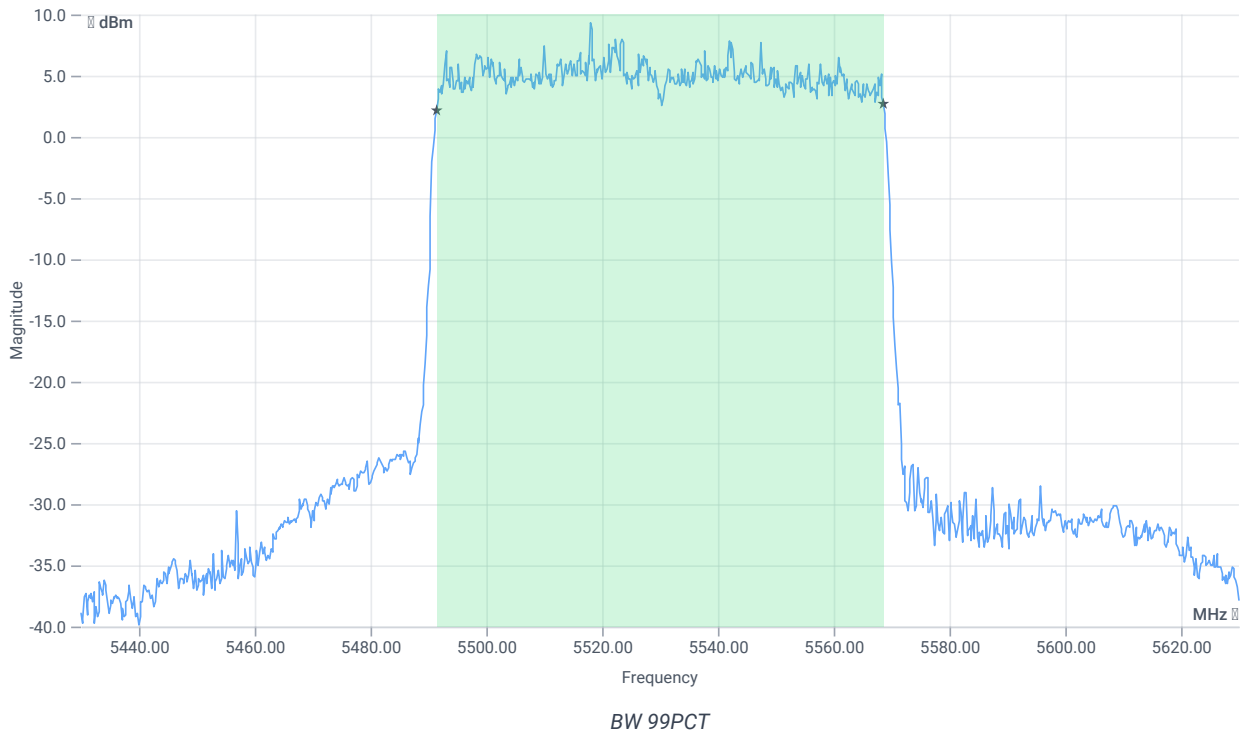
## Test at TX 5530 MHz

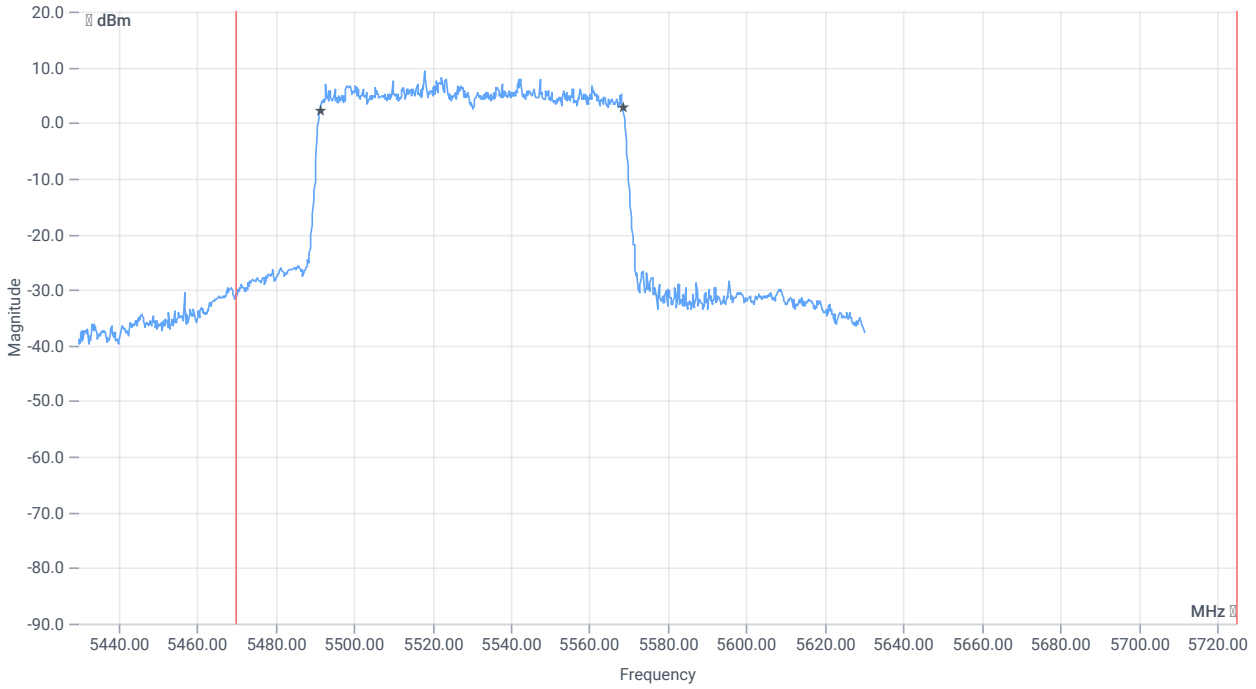
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	6.17	dBm	INFO
Ref. Frequency	--	--	5493.040	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	14.17   16.77   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

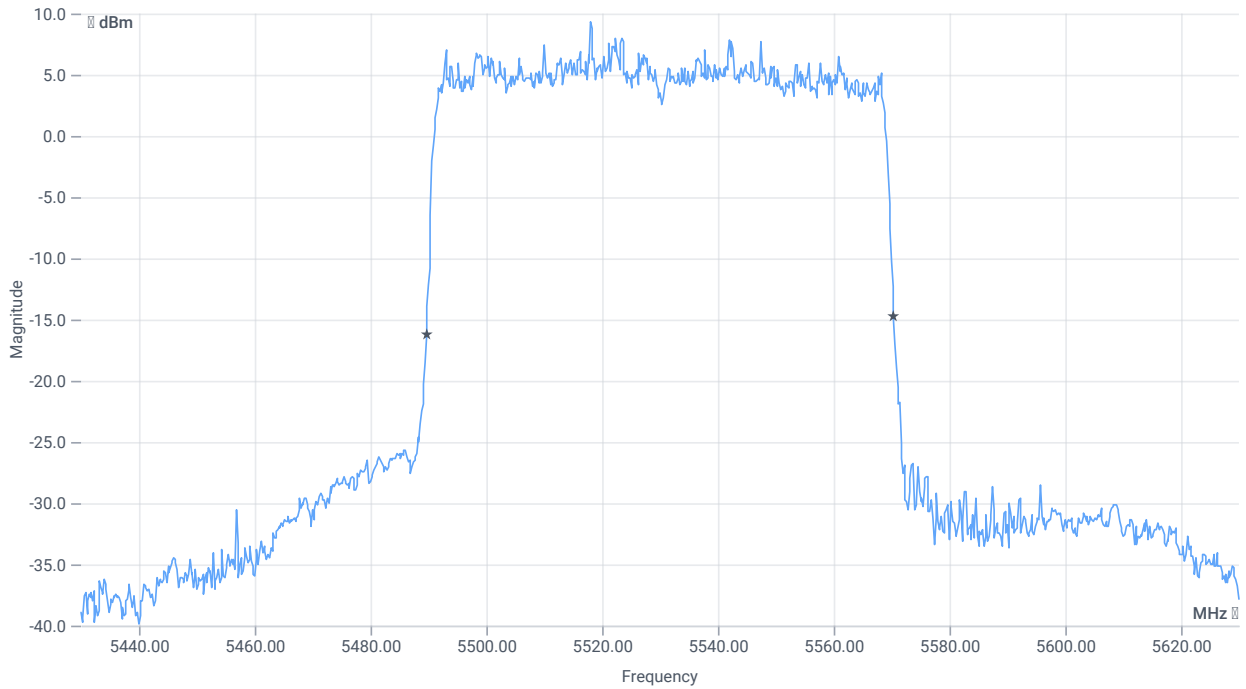




*BW within Band 99PCT*

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	77.123	MHz	INFO
T1 99%	5470.000000	--	5491.4386	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5568.5614	MHz	



BW 26dB



BW within Band 26dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	80.8	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	5570.4000	MHz	

Verdict

**PASS**

## # Message with SA scan ~

### References

TC start	12.07.2023 14:26:09
Ambit temp [°C]   humidity [rel%]	27.0   50
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan ax_HE80_U_NII_2C
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	12.07.2023 14:26:10
Message	set WLAN5Gx to ax_HE80_U_NII_2C, Frequency [MHz] 5610 ,

### Equipment

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

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C

### References

TC start	12.07.2023 14:40:10
Ambit temp [°C]   humidity [rel%]	27.0   50
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

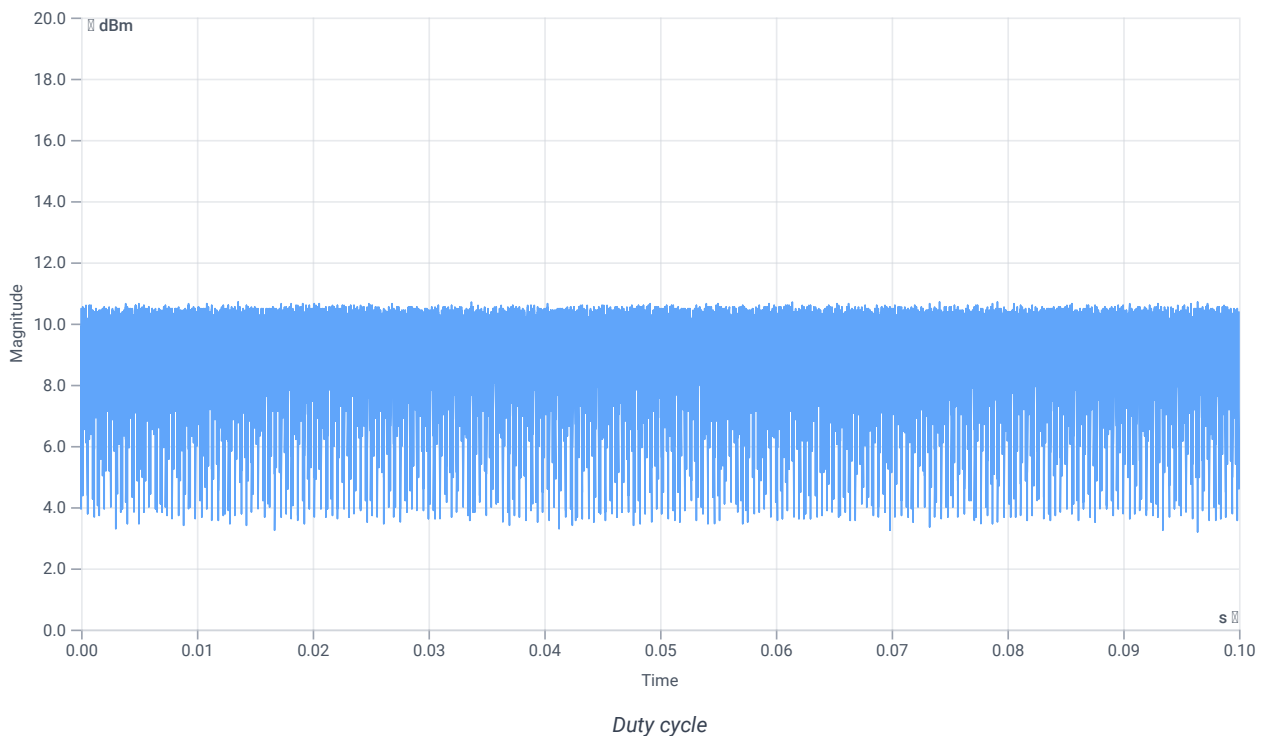
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	9.82	dBm	INFO
Ref. Frequency	--	--	5606.400	MHz	INFO

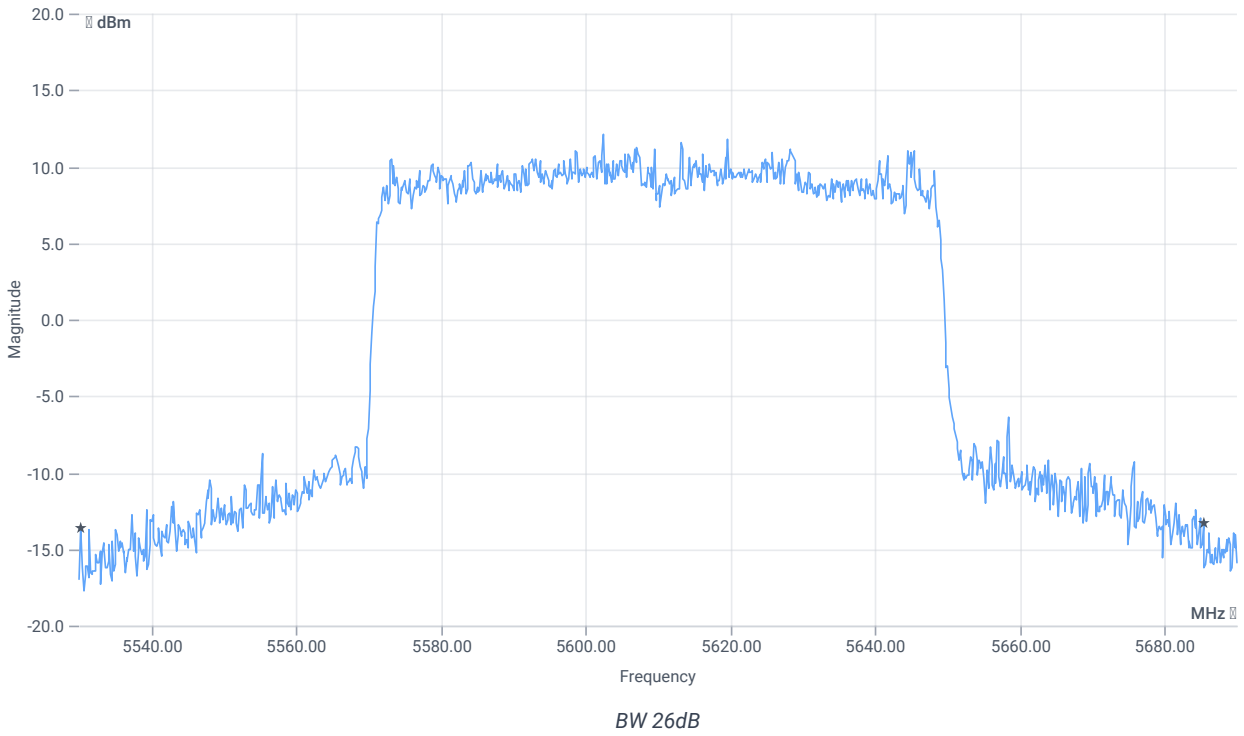
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



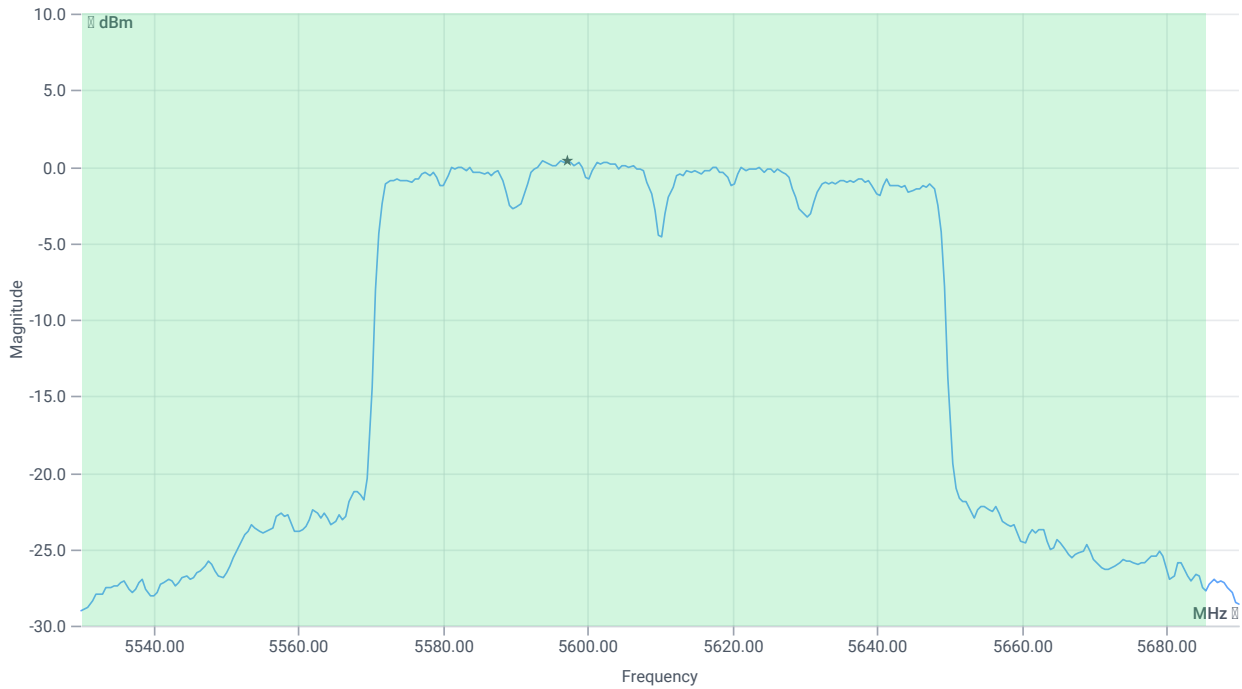
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	155.2	MHz	INFO
T1 26dB	---	---	5530.1600	MHz	INFO
T2 26dB	---	---	5685.3600	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	21.82   16.62   20
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	--	--	17.89	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	17.89	dBm	PASS
Limit: 11 dBm + 10 log 155.2					
Max Output Power DC corrected	--	32.91	17.89	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	0.39	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	0.39	dBm/1MHz	PASS

### Verdict

PASS

# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-2C

## References

TC start	12.07.2023 14:42:38
Ambit temp [°C]   humidity [rel%]	27.0   50
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-2C
Information	

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

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

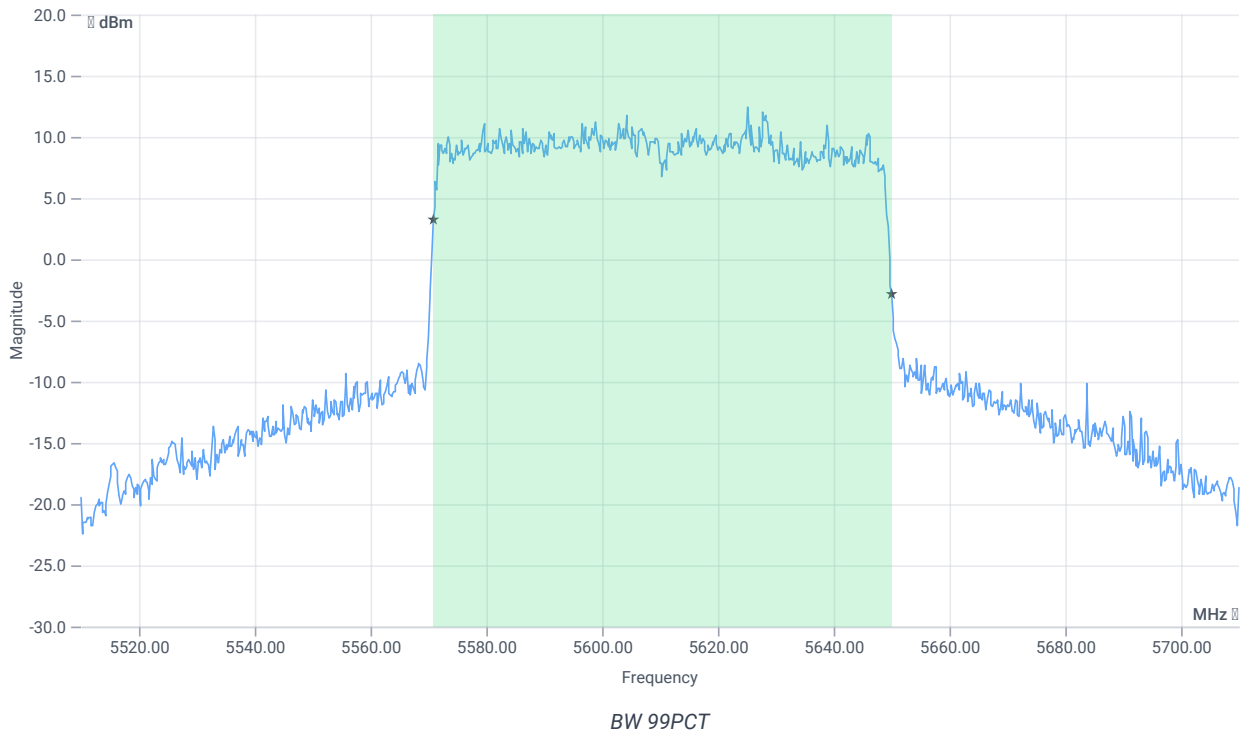
## Test at TX 5610 MHz

RESULT: Reference Power cond.

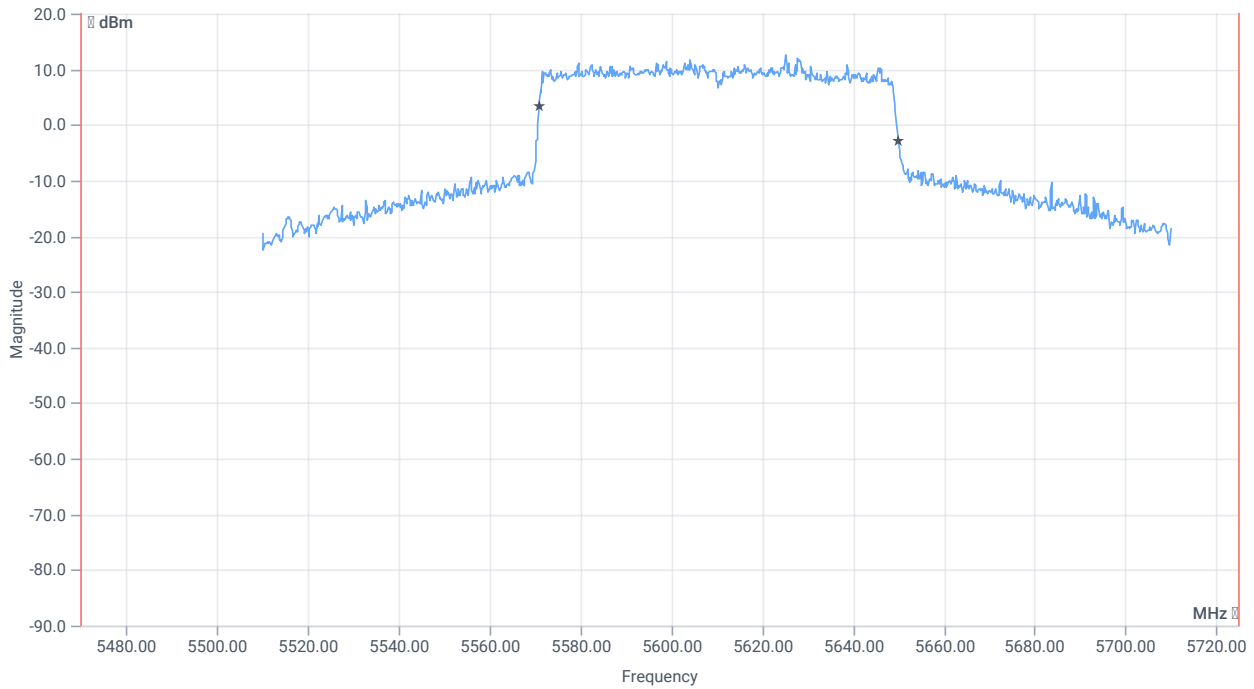
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	10.60	dBm	INFO
Ref. Frequency	--	--	5573.240	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	18.60   16.62   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



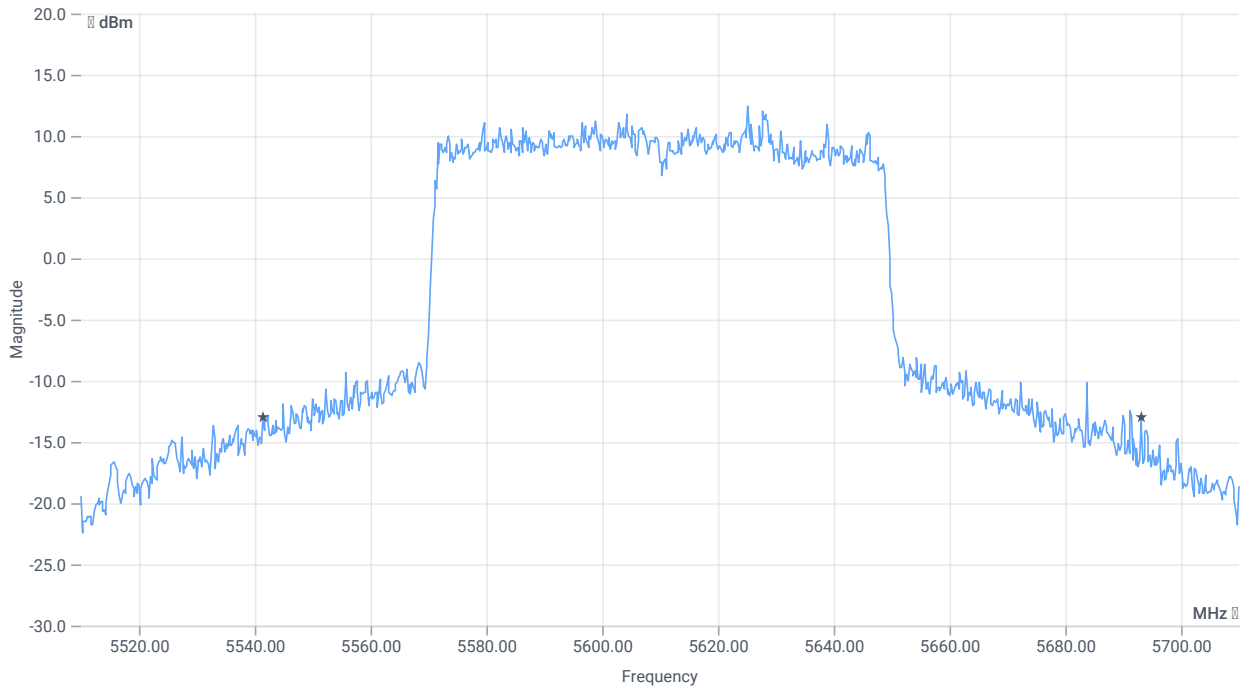




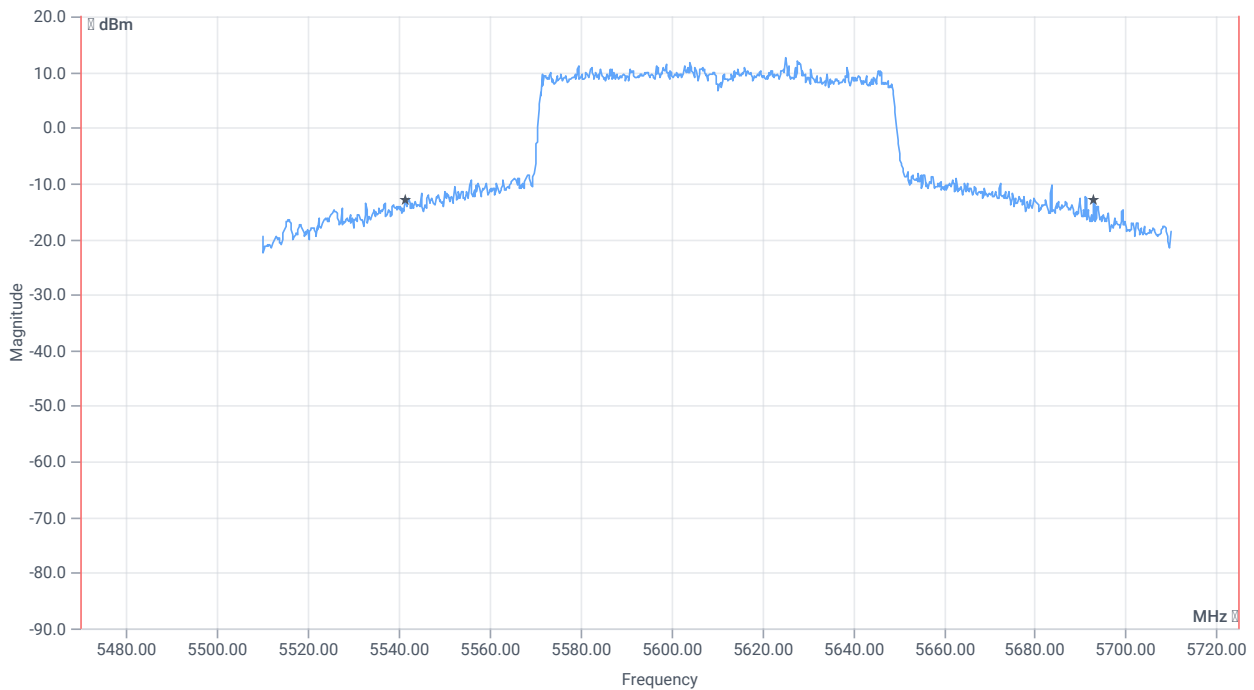
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	79.121	MHz	INFO
T1 99%	5470.000000	--	5570.8392	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5649.9600	MHz	



BW 26dB



BW within Band 26dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	151.6	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5470.000000	--	5541.4000	MHz	PASS since U-NII-3 is supported
T2 26dB	--	5725.000000	5693.0000	MHz	

Verdict

**PASS**

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C

### References

TC start	12.07.2023 14:43:15
Ambit temp [°C]   humidity [rel%]	27.0   50
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

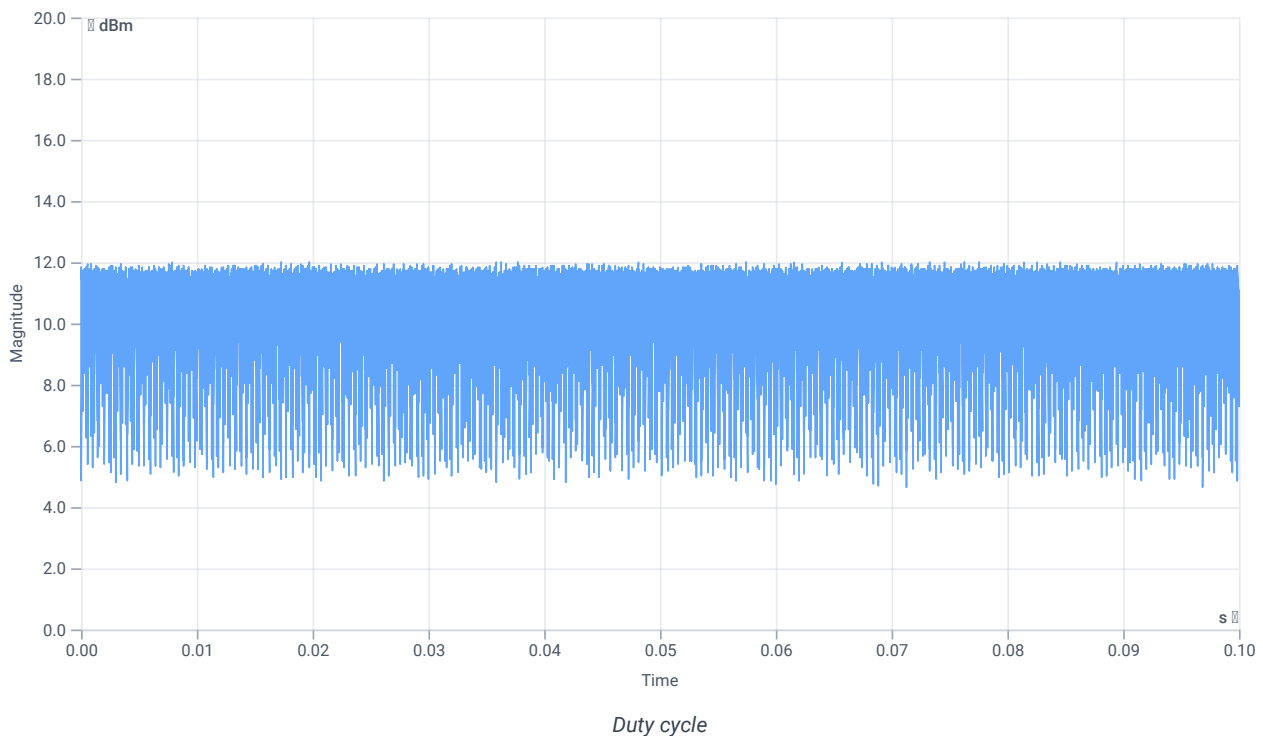
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	10.80	dBm	INFO
Ref. Frequency	--	--	5604.210	MHz	INFO

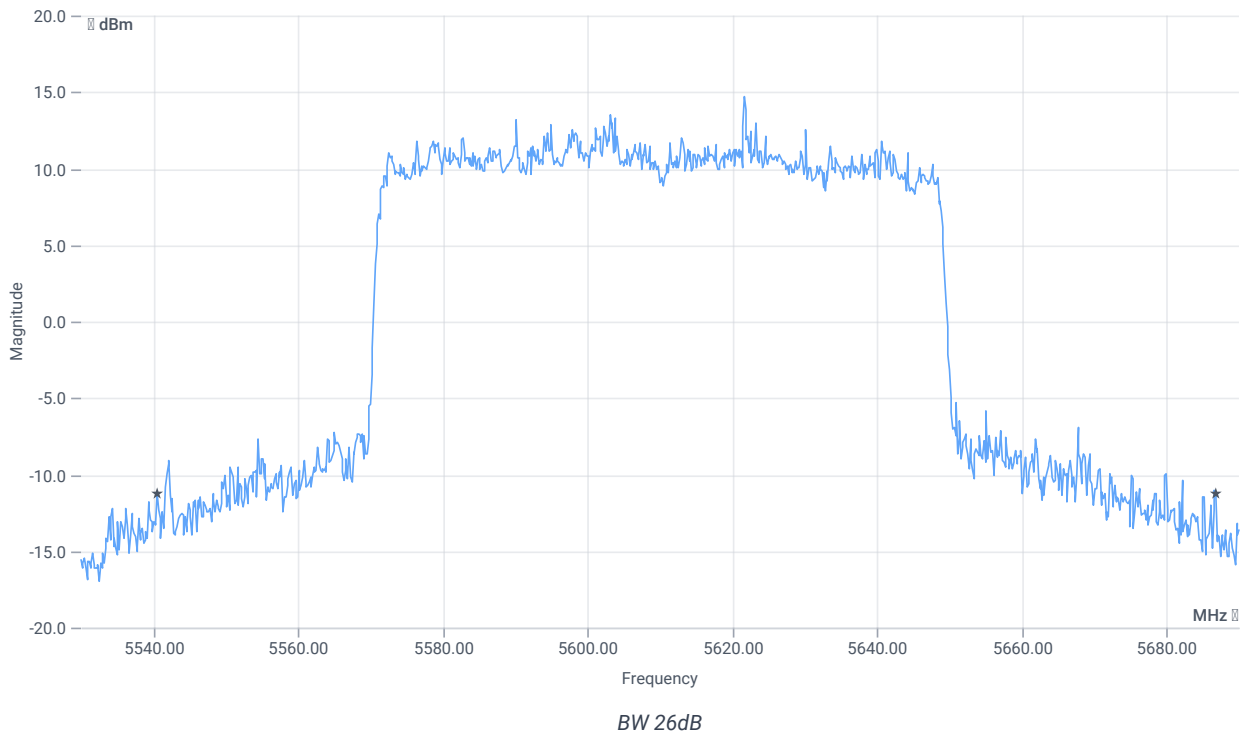
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



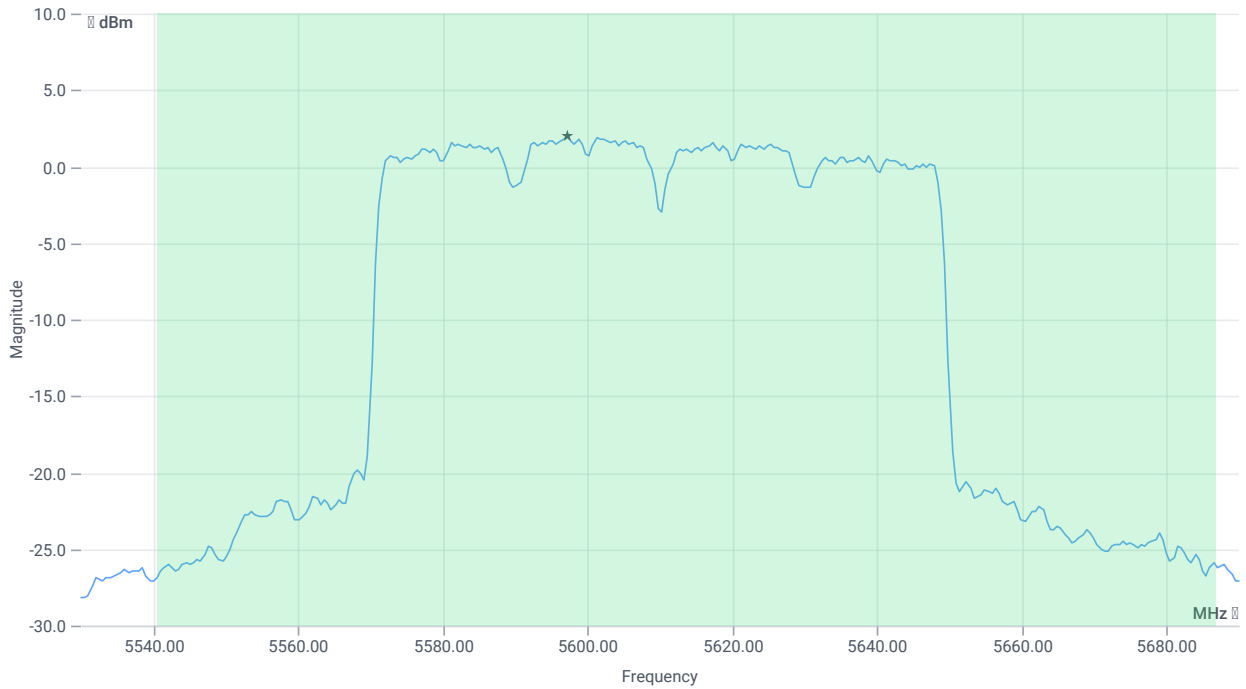
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	146.24	MHz	INFO
T1 26dB	---	---	5540.5600	MHz	INFO
T2 26dB	---	---	5686.8000	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	22.80   16.62   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	--	--	19.4	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	19.4	dBm	PASS
Limit: 11 dBm + 10 log 146.24					
Max Output Power DC corrected	--	32.65	19.4	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	1.98	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	1.98	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-2C

### References

TC start	12.07.2023 14:45:42
Ambit temp [°C]   humidity [rel%]	27.0   50
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

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



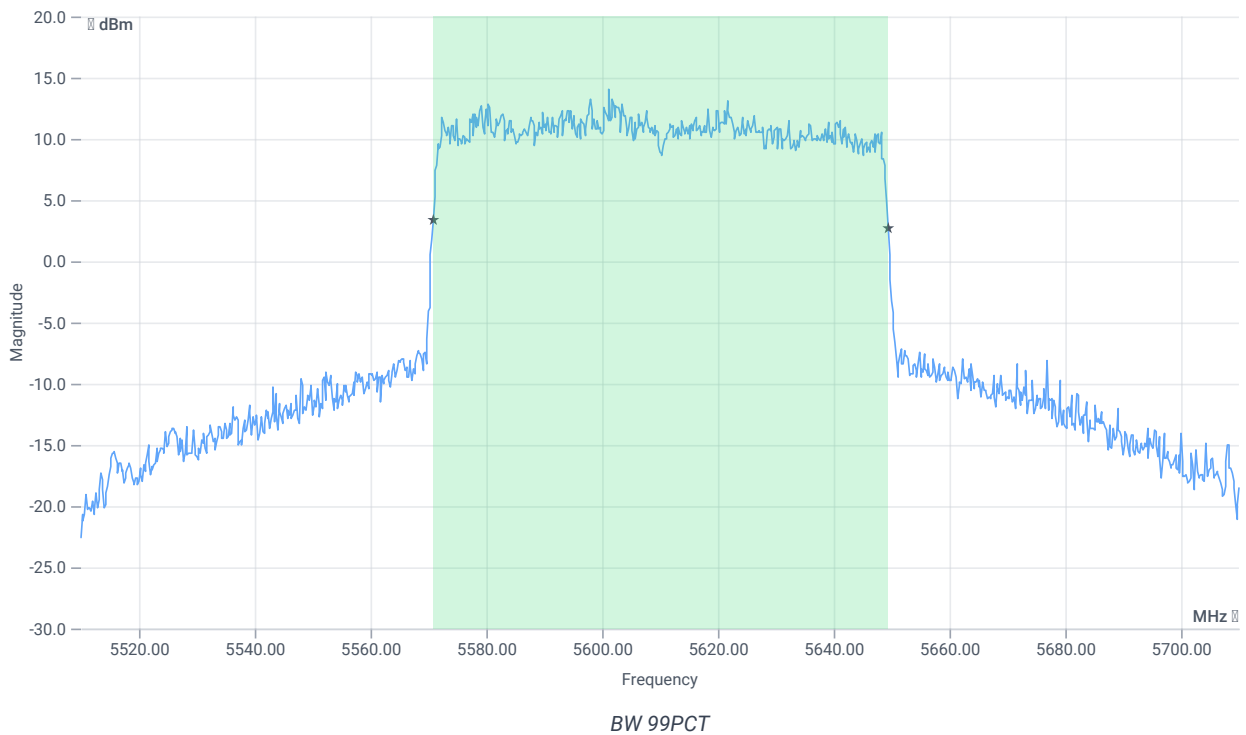
## Test at TX 5610 MHz

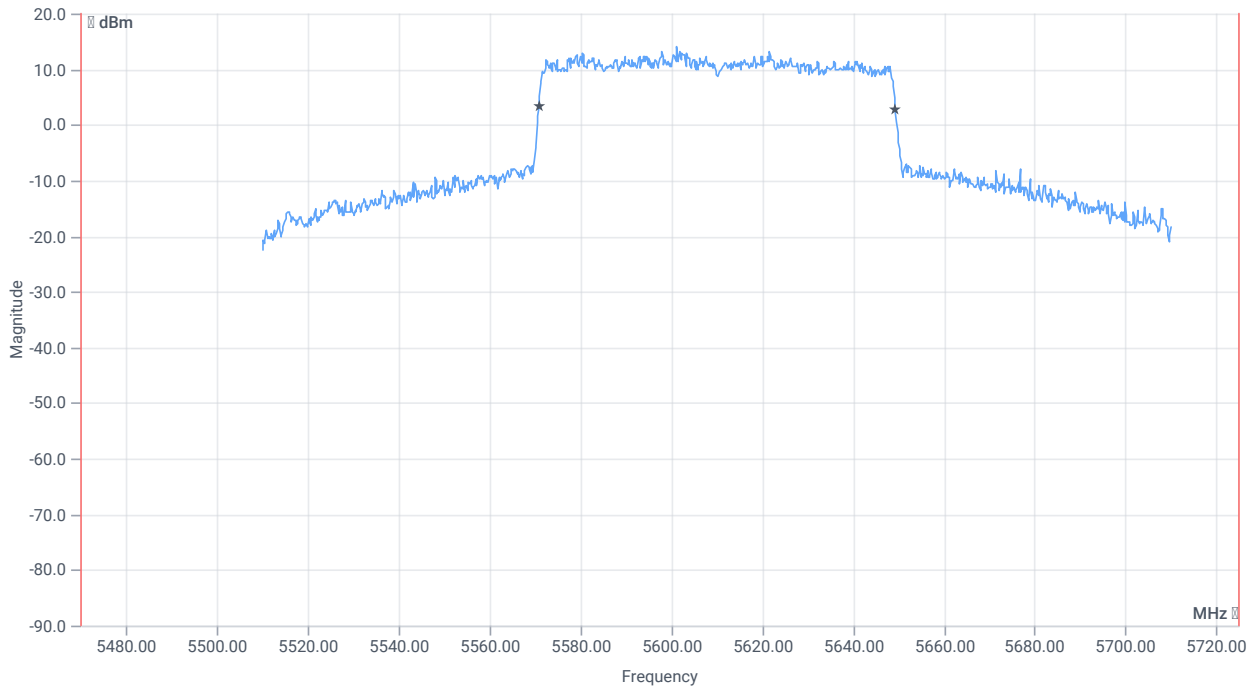
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	11.74	dBm	INFO
Ref. Frequency	--	--	5601.210	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	19.74   16.62   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

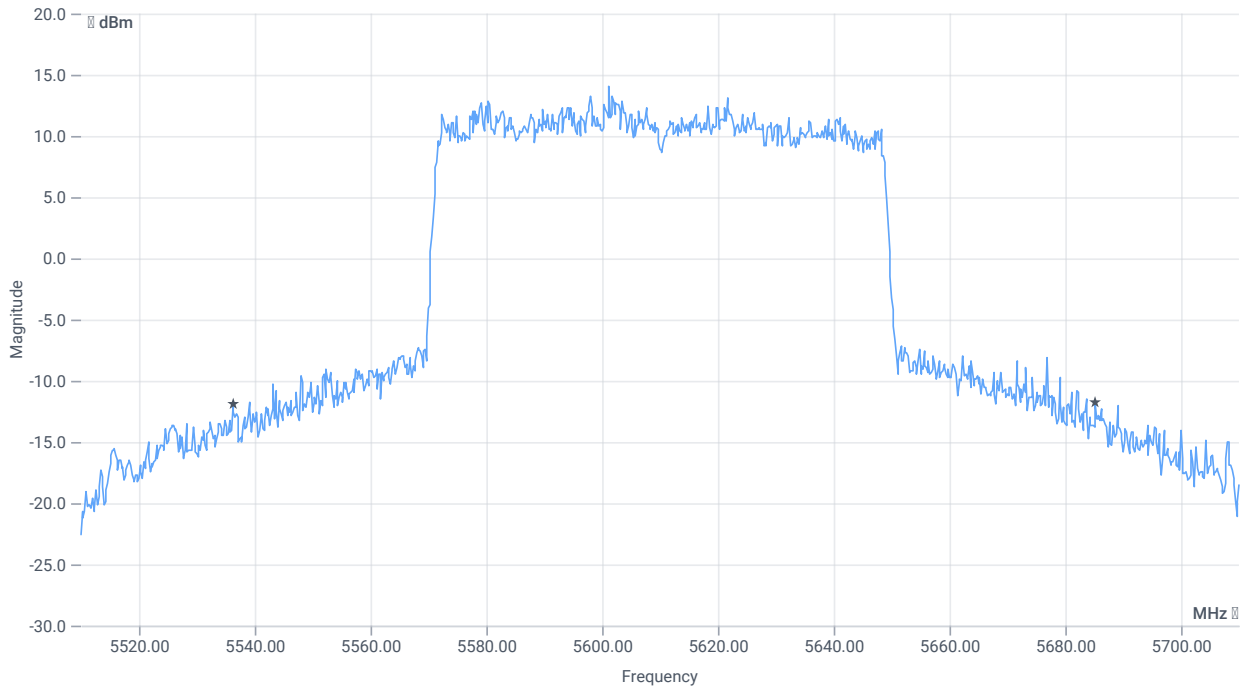




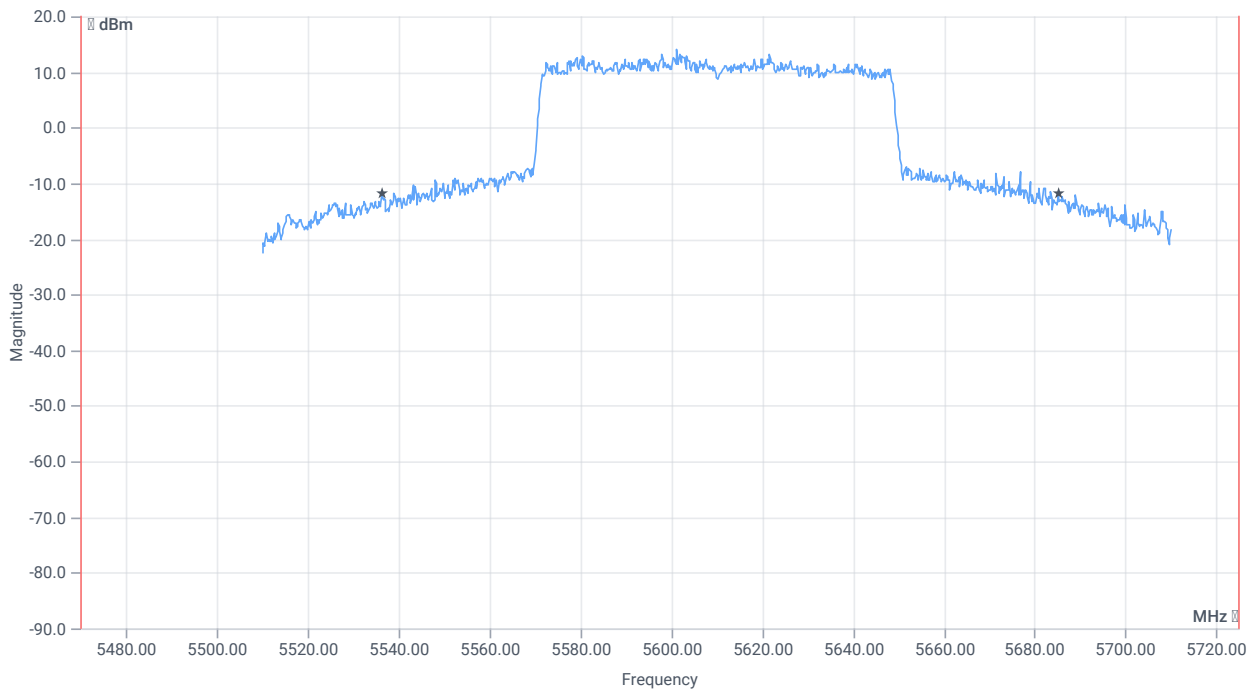
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	78.521	MHz	INFO
T1 99%	5470.000000	--	5570.8392	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5649.3606	MHz	



BW 26dB



BW within Band 26dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	149	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5470.000000	--	5536.2000	MHz	PASS since U-NII-3 is supported
T2 26dB	--	5725.000000	5685.2000	MHz	

Verdict

**PASS**

## # Message with SA scan ~

### References

TC start	12.07.2023 14:46:18
Ambit temp [°C]   humidity [rel%]	27.0   50
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan ax_HE80_U_NII_2C
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	12.07.2023 14:46:19
Message	set WLAN5Gx to ax_HE80_U_NII_2C, Frequency [MHz] 5690

### Equipment

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

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C

### References

TC start	12.07.2023 14:53:44
Ambit temp [°C]   humidity [rel%]	27.0   49
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

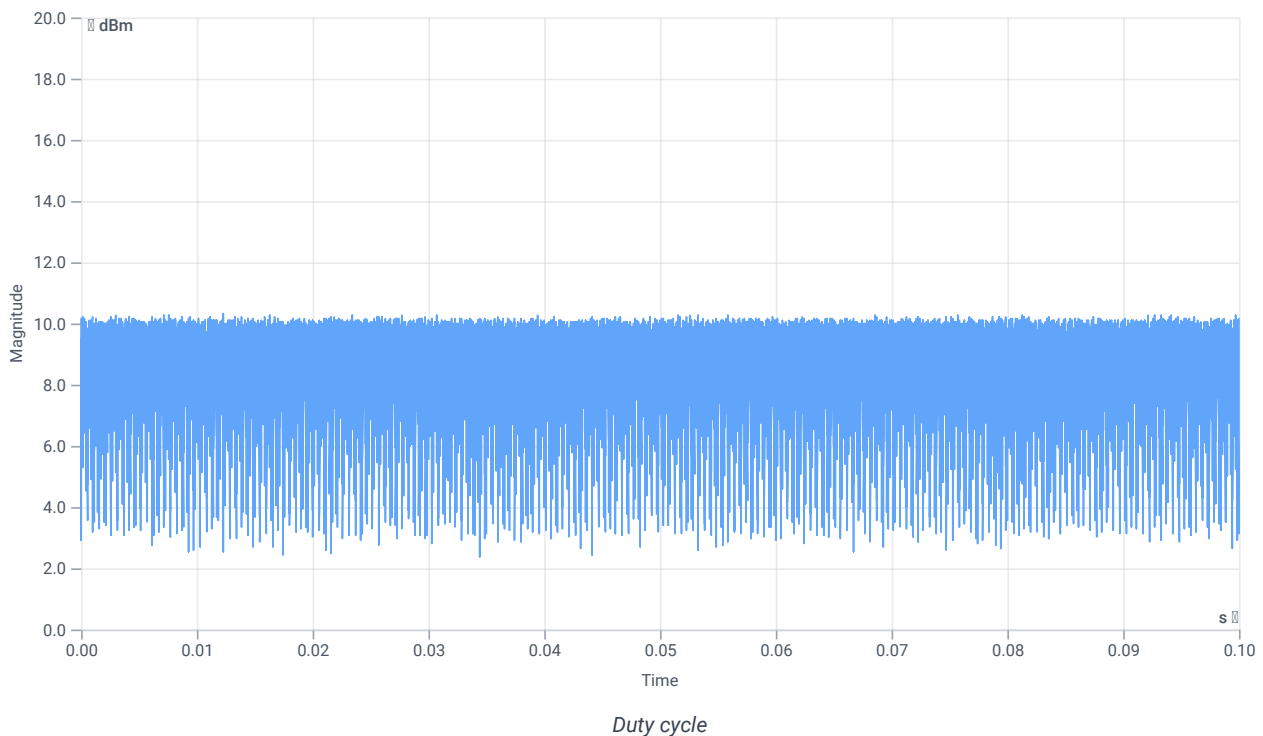
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	10.34	dBm	INFO
Ref. Frequency	--	--	5708.180	MHz	INFO

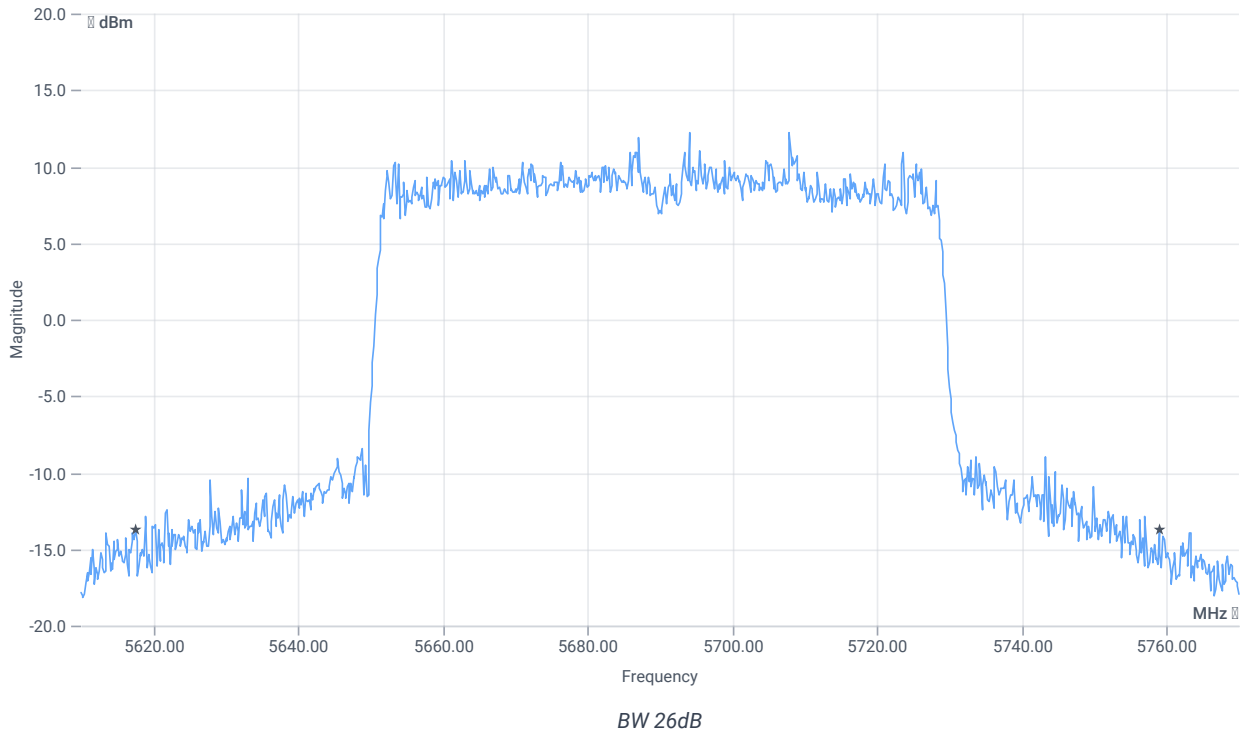
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



## RESULT

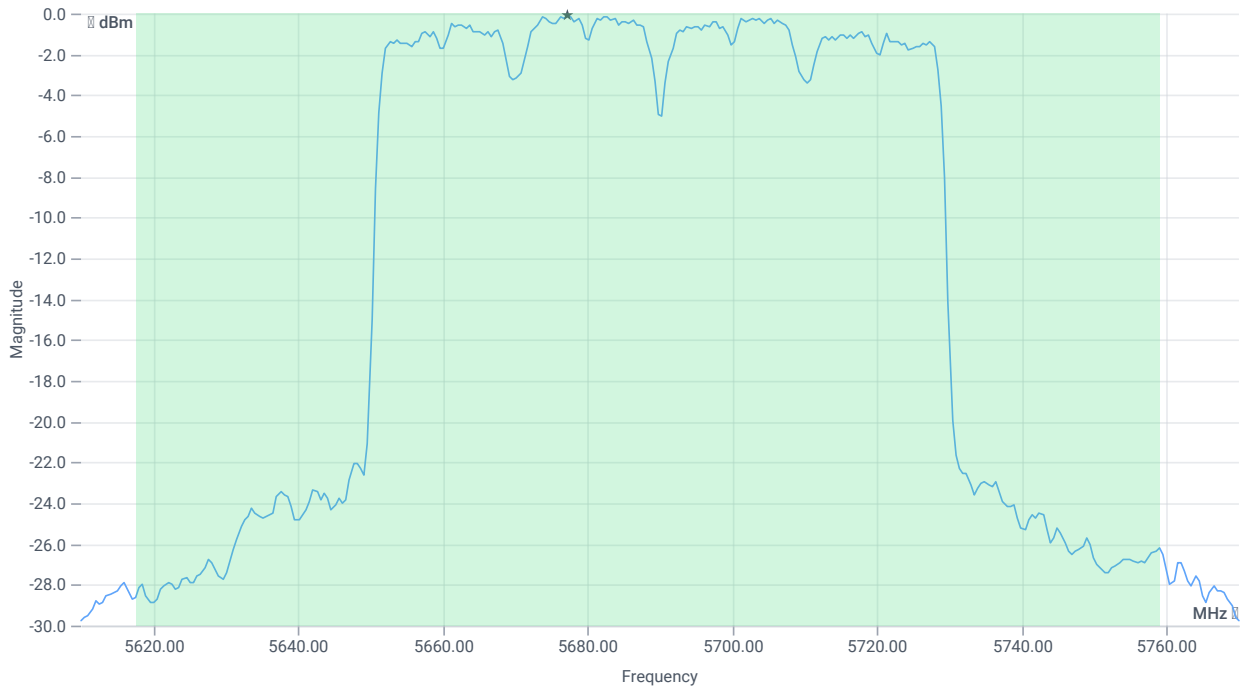
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	141.44	MHz	INFO
T1 26dB	---	---	5617.5200	MHz	INFO
T2 26dB	---	---	5758.9600	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	22.34   16.56   20
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	--	--	17.53	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	17.53	dBm	PASS
Limit: 11 dBm + 10 log 141.44					
Max Output Power DC corrected	--	32.51	17.53	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	-0.09	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	-0.09	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-2C

### References

TC start	12.07.2023 14:56:07
Ambit temp [°C]   humidity [rel%]	27.1   49
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

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

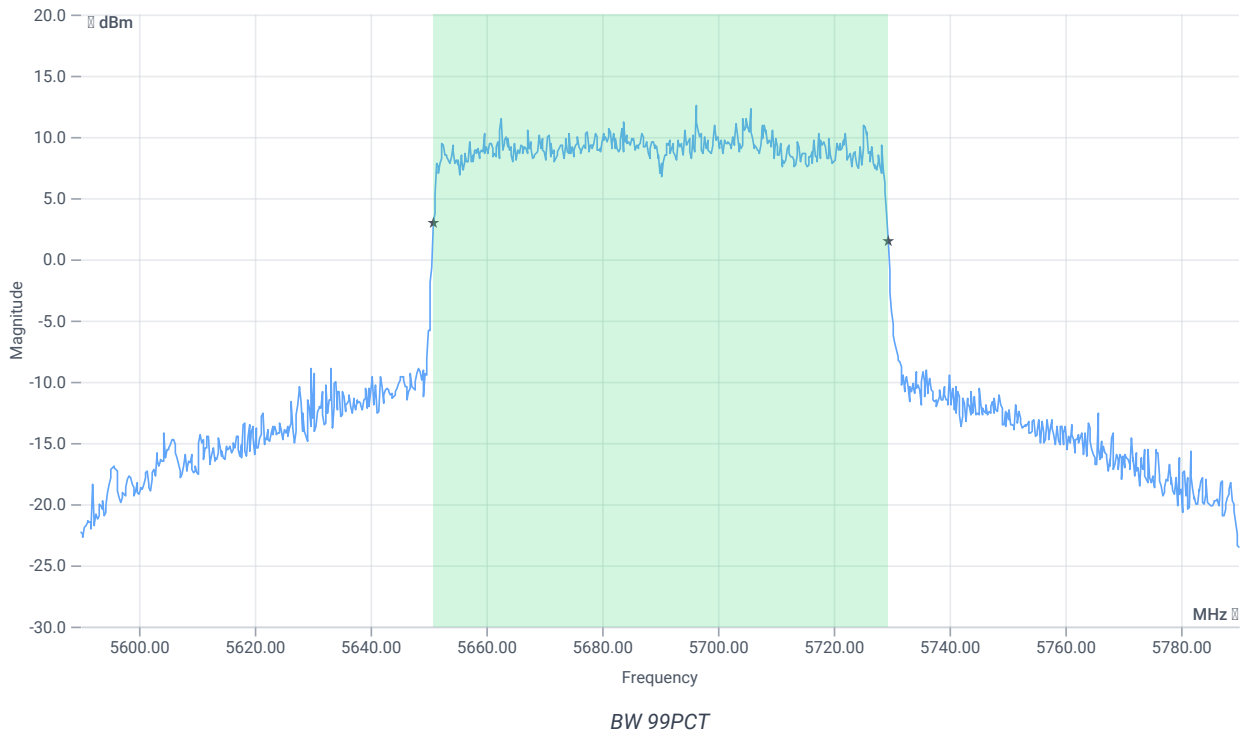
## Test at TX 5690 MHz

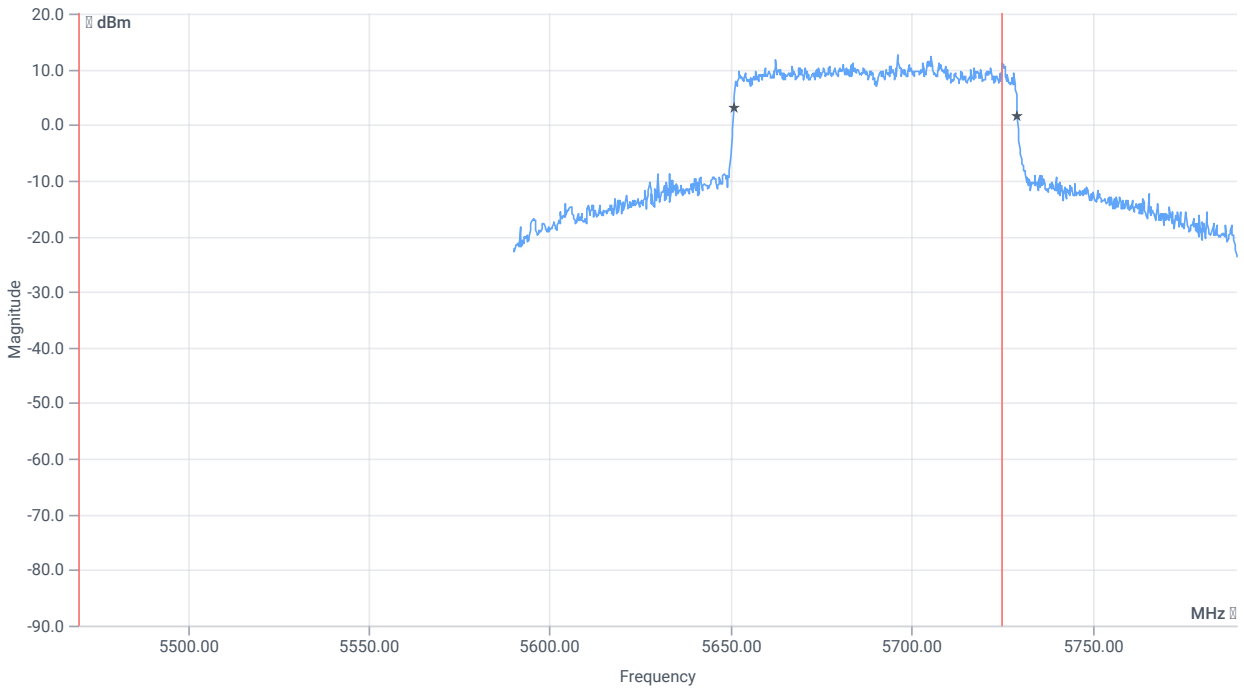
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	10.96	dBm	INFO
Ref. Frequency	--	--	5666.820	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	18.96   16.56   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

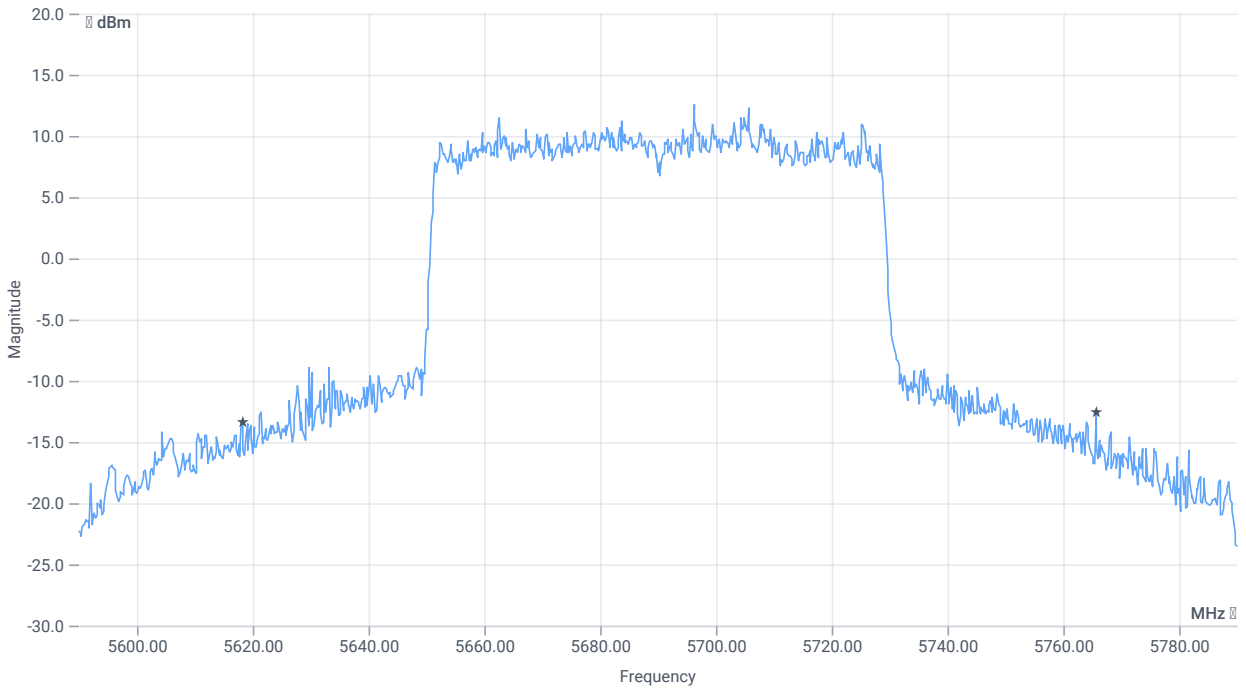




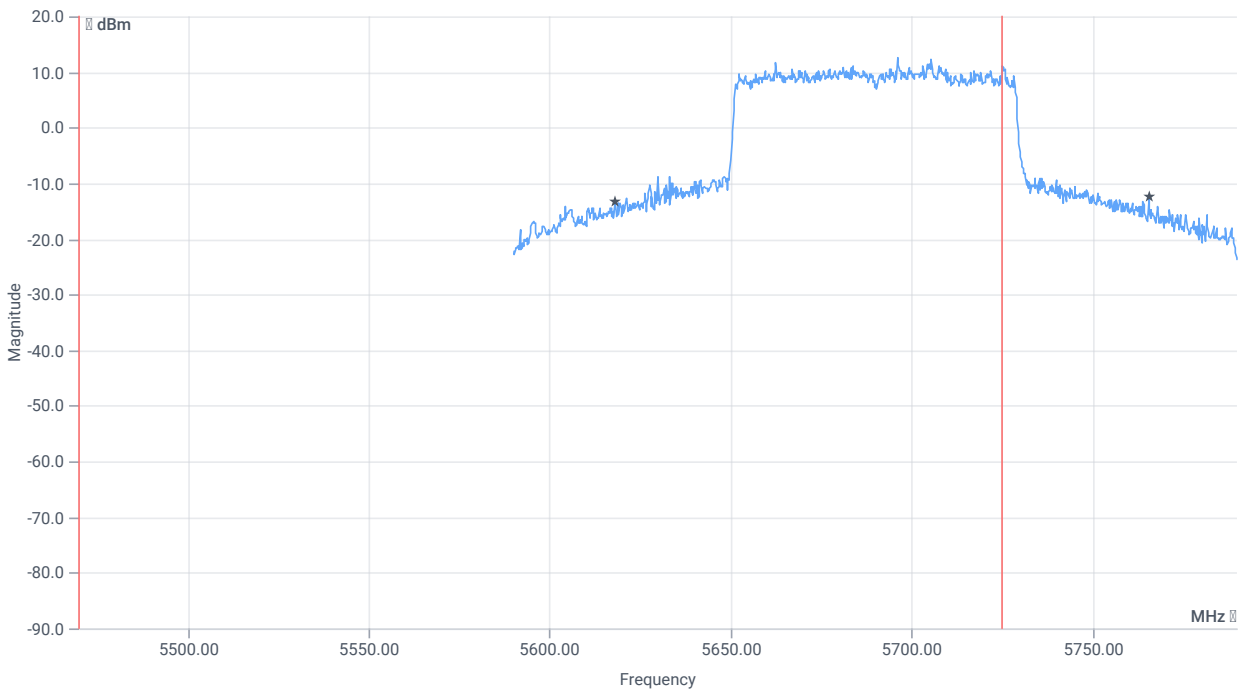
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	78.521	MHz	INFO
T1 99%	5470.000000	--	5650.8392	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5729.3606	MHz	



BW 26dB



BW within Band 26dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	147.4	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5470.000000	--	5618.2000	MHz	PASS since U-NII-3 is supported
T2 26dB	--	5725.000000	5765.6000	MHz	

Verdict

**PASS**

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C

### References

TC start	12.07.2023 14:56:44
Ambit temp [°C]   humidity [rel%]	27.1   49
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

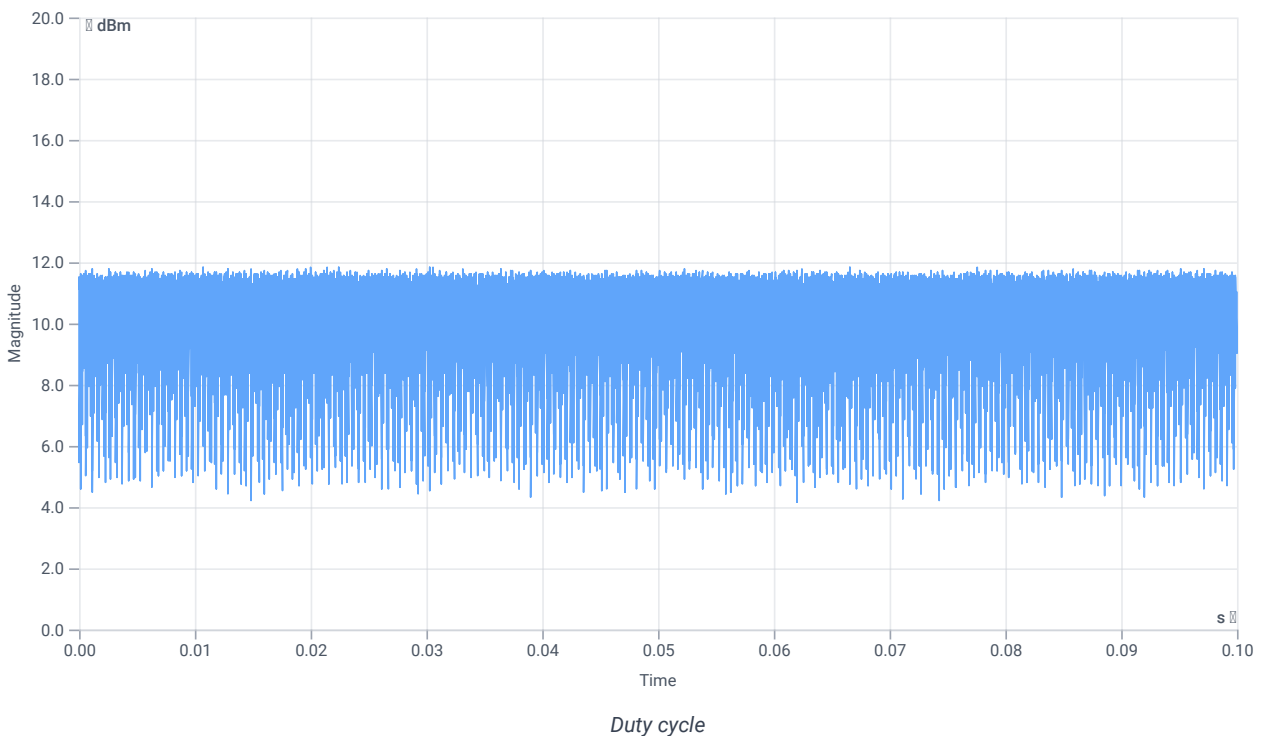
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	11.80	dBm	INFO
Ref. Frequency	--	--	5660.230	MHz	INFO

## Evaluation max. Duty Cycle

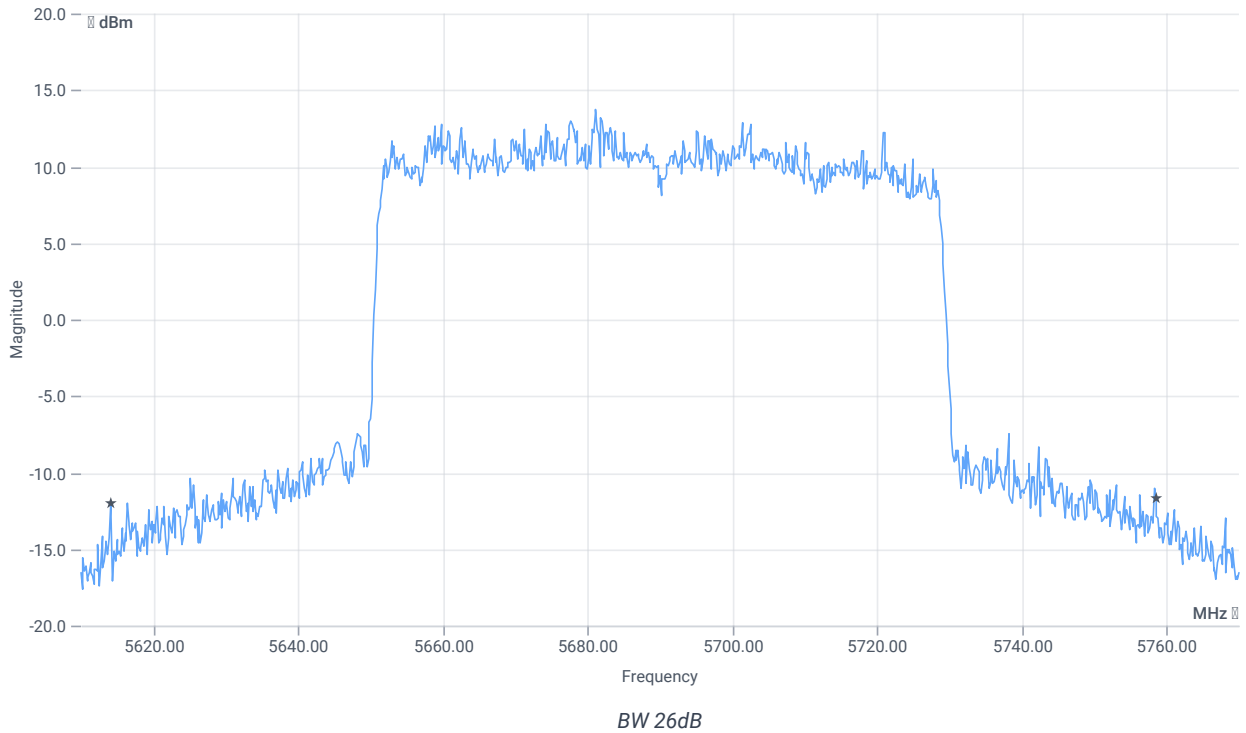
### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth





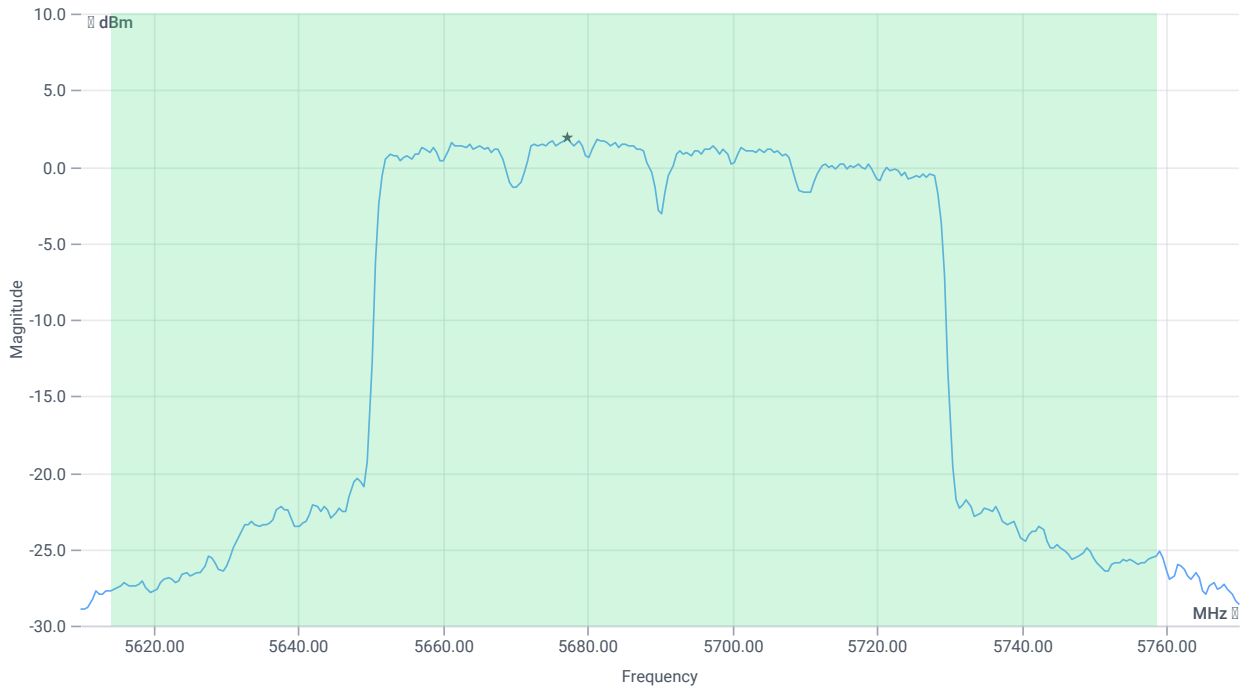
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	144.48	MHz	INFO
T1 26dB	---	---	5614.0000	MHz	INFO
T2 26dB	---	---	5758.4800	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.80   16.56   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	--	--	19.21	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	19.21	dBm	PASS
Limit: 11 dBm + 10 log 144.48					
Max Output Power DC corrected	--	32.6	19.21	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	1.86	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	1.86	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-2C

### References

TC start	12.07.2023 14:59:07
Ambit temp [°C]   humidity [rel%]	27.0   49
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

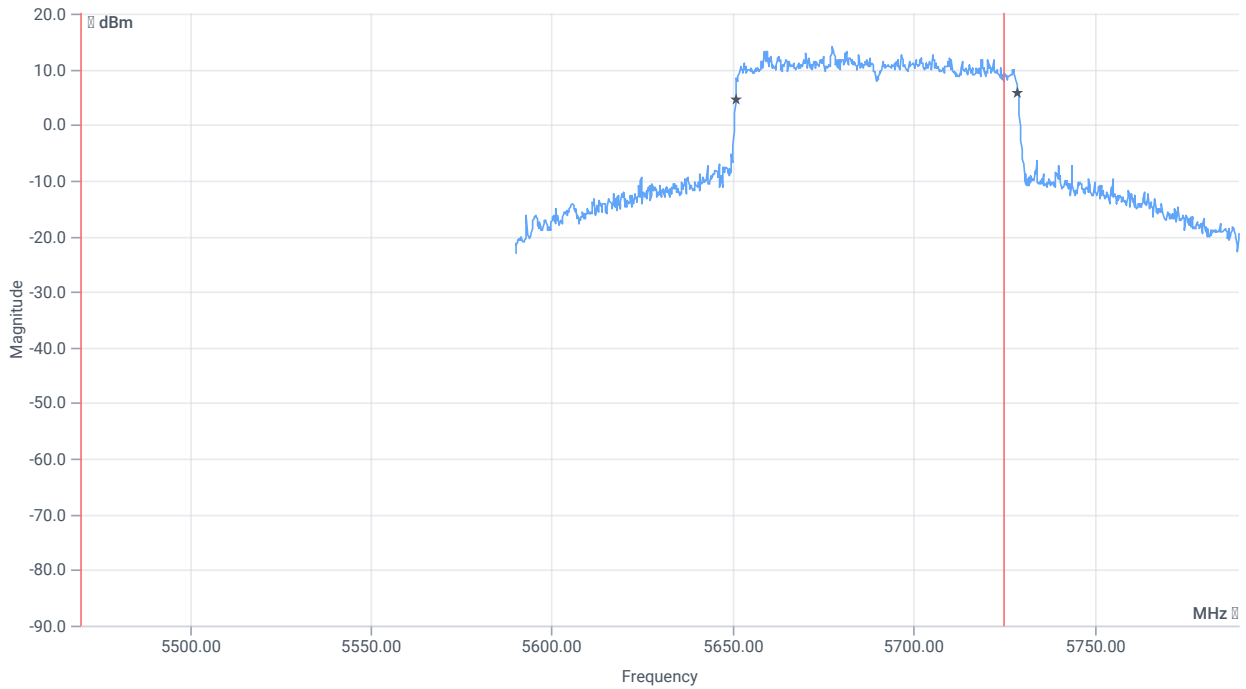
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	12.50	dBm	INFO
Ref. Frequency	--	--	5682.210	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.50   16.56   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

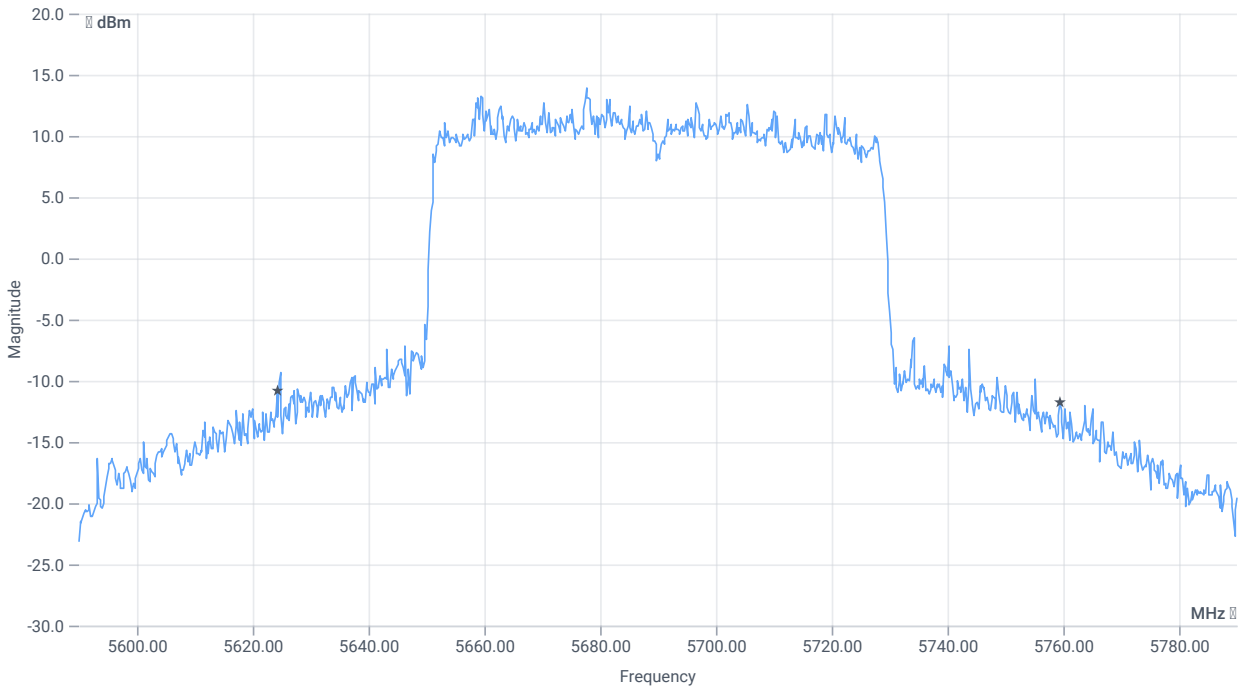




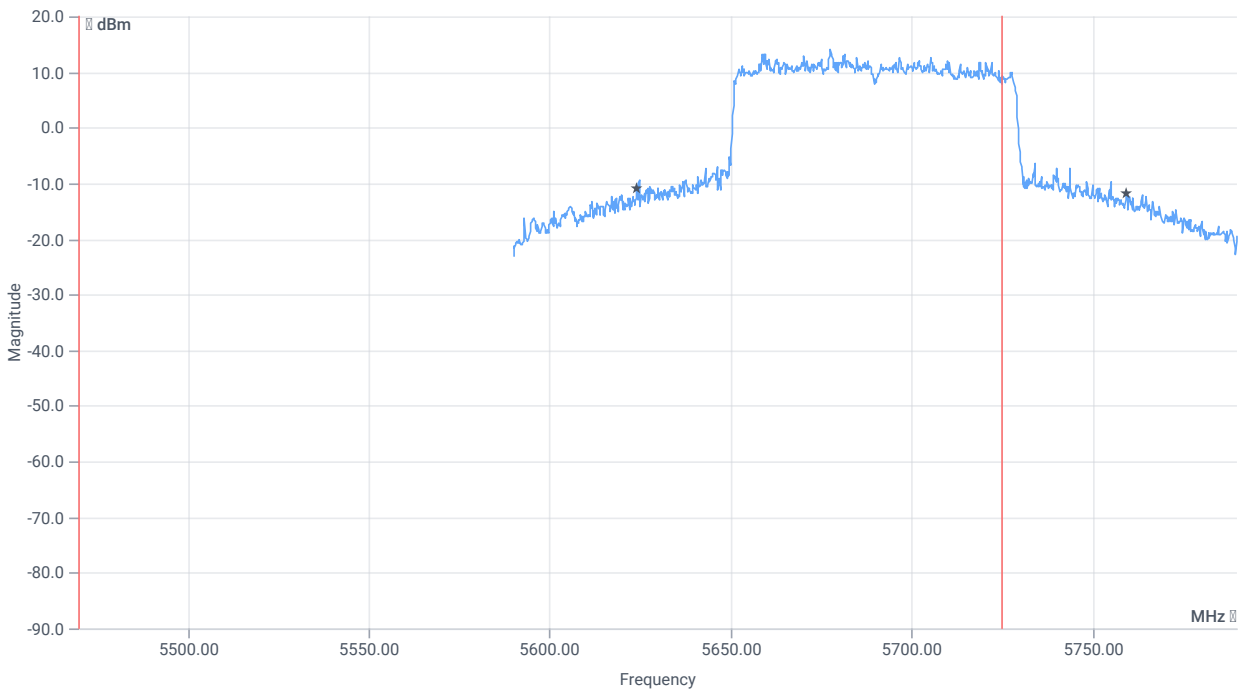
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	77.922	MHz	INFO
T1 99%	5470.000000	--	5651.0390	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5728.9610	MHz	



BW 26dB



BW within Band 26dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	135.2	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5470.000000	--	5624.2000	MHz	PASS since U-NII-3 is supported
T2 26dB	--	5725.000000	5759.4000	MHz	

Verdict

**PASS**

## # Message with SA scan ~

### References

TC start	20.07.2023 13:46:13
Ambit temp [°C]   humidity [rel%]	25.6   39
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan ax-HE80 U-NII-3
Information	PS72

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	20.07.2023 13:46:14
Message	set WLAN5Gx to ax-HE80 U-NII-3, Frequency [MHz] 5775 ,

### Equipment

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

### Verdict

INFO



## FCC 15.407 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-3

### References

TC start	20.07.2023 13:46:38
Ambit temp [°C]   humidity [rel%]	25.6   39
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-3
Information	PS72

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

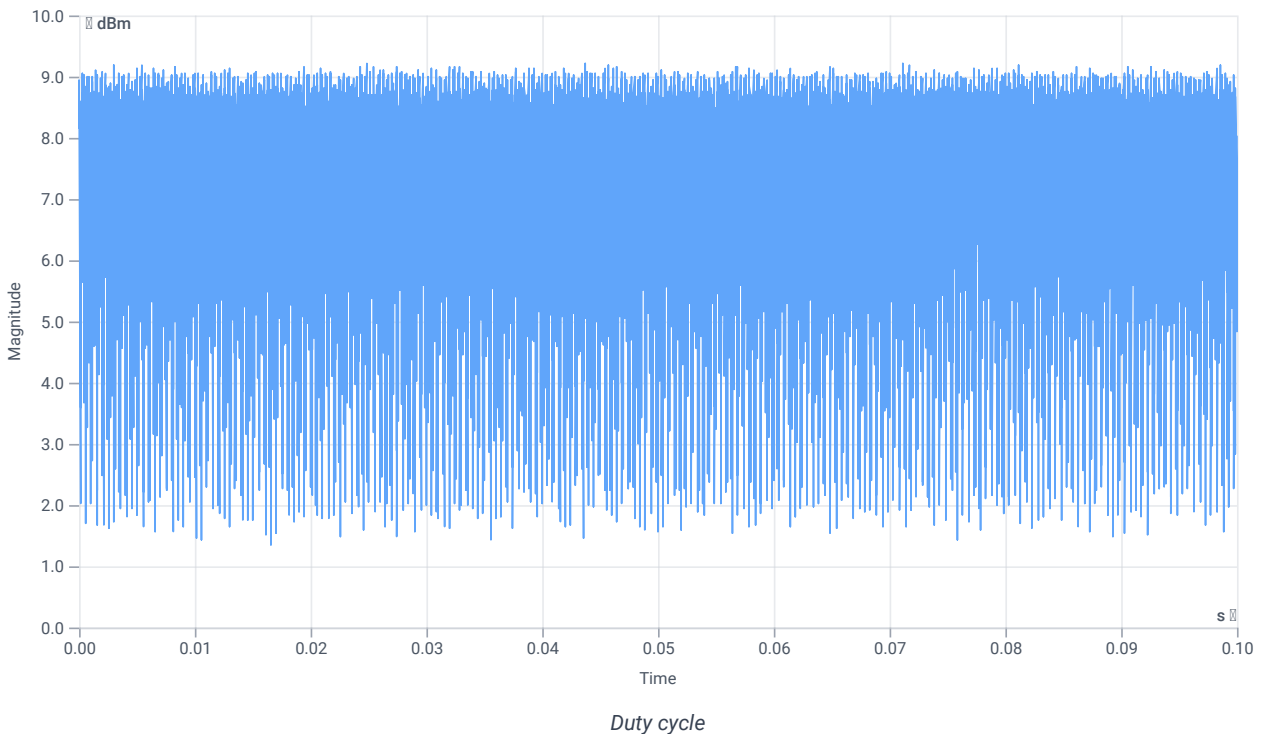
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	8.31	dBm	INFO
Ref. Frequency	--	--	5769.010	MHz	INFO

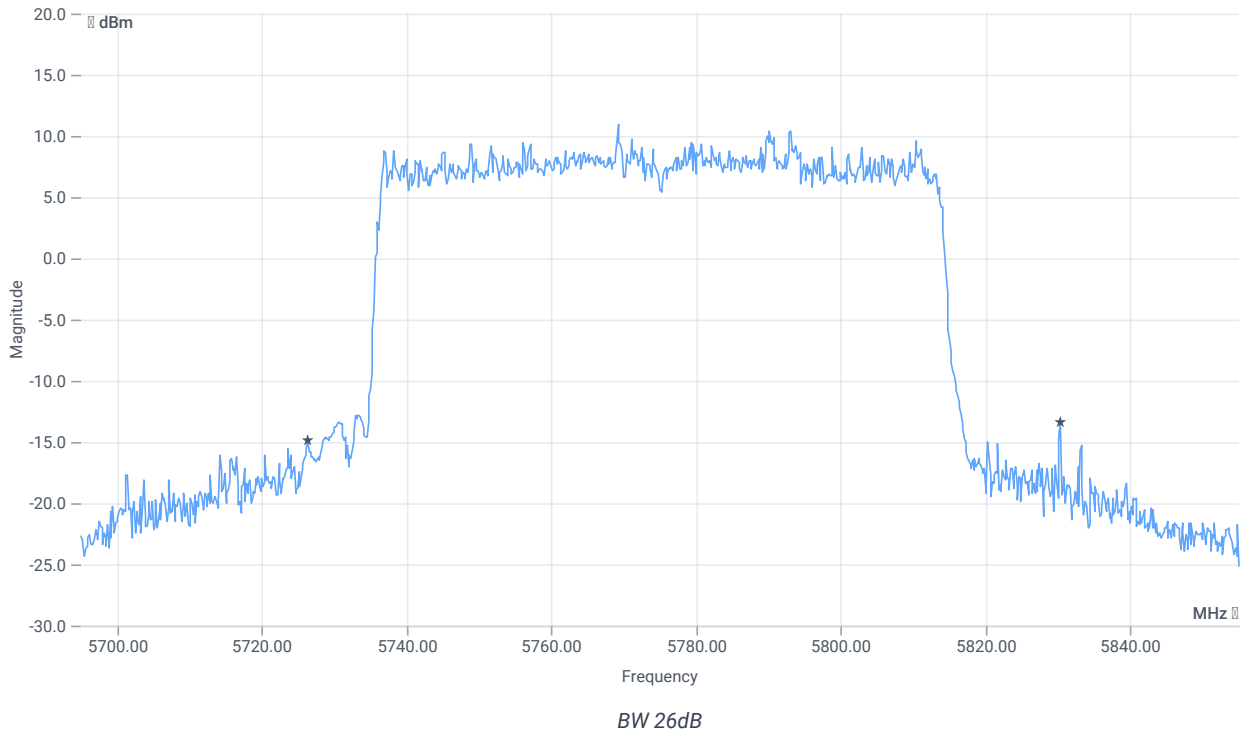
### Evaluation max. Duty Cycle

#### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



### Evaluation Bandwidth



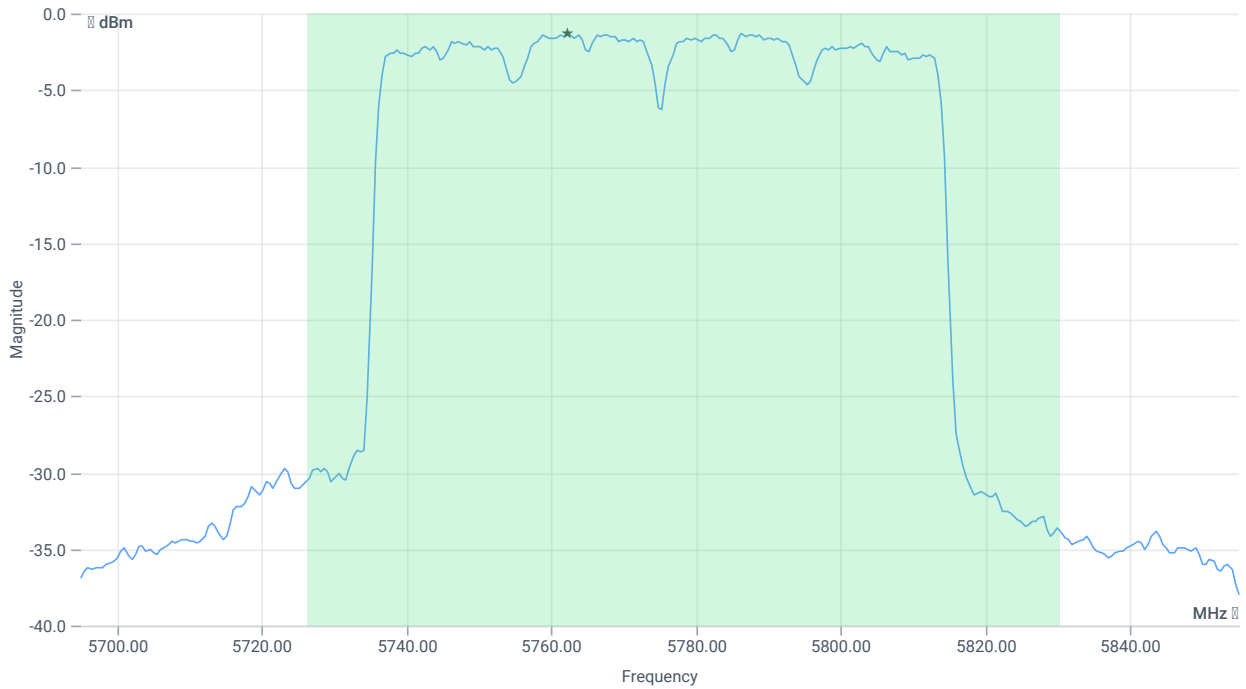
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	104	MHz	INFO
T1 26dB	---	---	5726.3600	MHz	INFO
T2 26dB	---	---	5830.3600	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.31   16.72   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

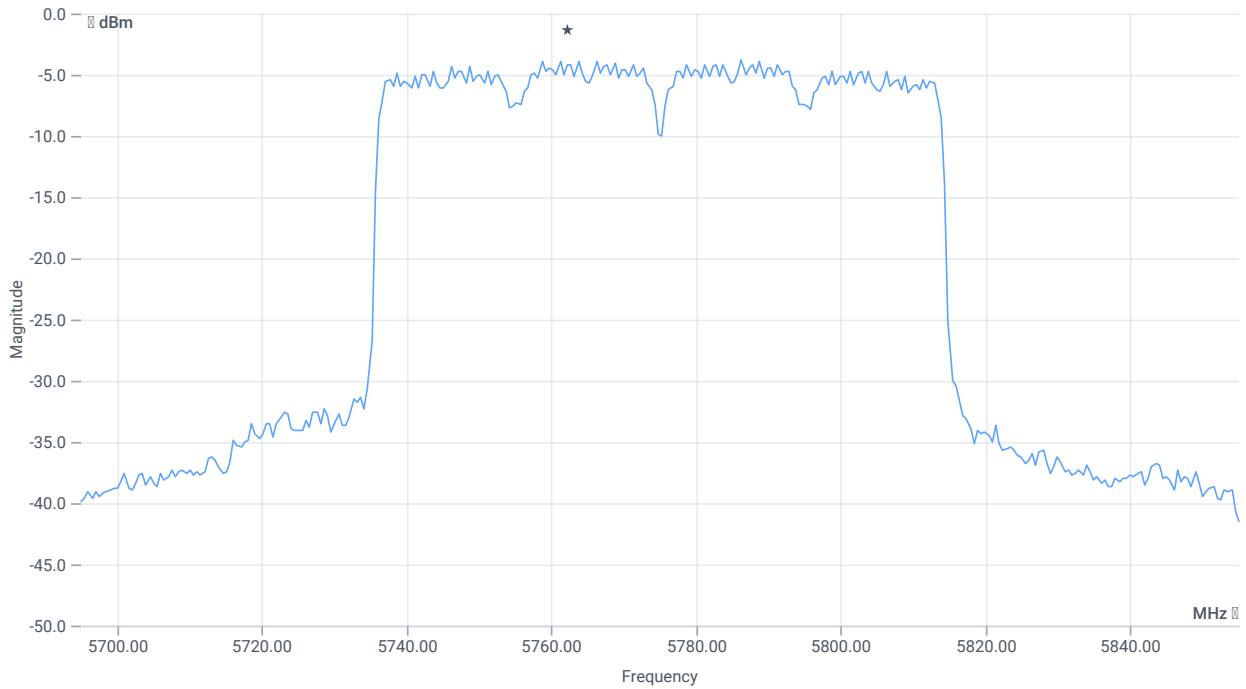
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	16.34	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	30	16.34	dBm	PASS
Limit: 11 dBm + 10 log 104					
Max Output Power DC corrected	--	31.17	16.34	dBm	na

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.31   16.72   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



PSD UNII-3

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	-3.84	dBm/0.5MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	30	-3.84	dBm/0.5MHz	PASS

Verdict

PASS

# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-3

## References

TC start	20.07.2023 13:51:02
Ambit temp [°C]   humidity [rel%]	25.5   38
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-3
Information	PS72

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

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

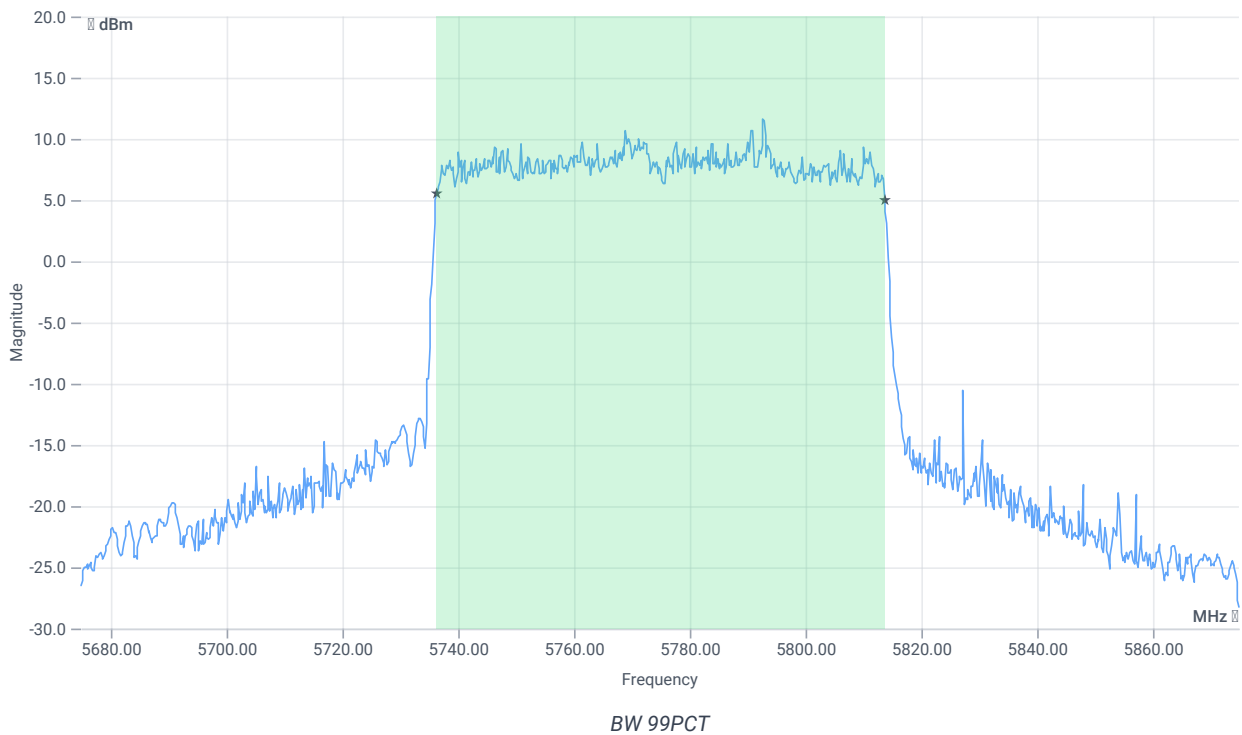
## Test at TX 5775 MHz

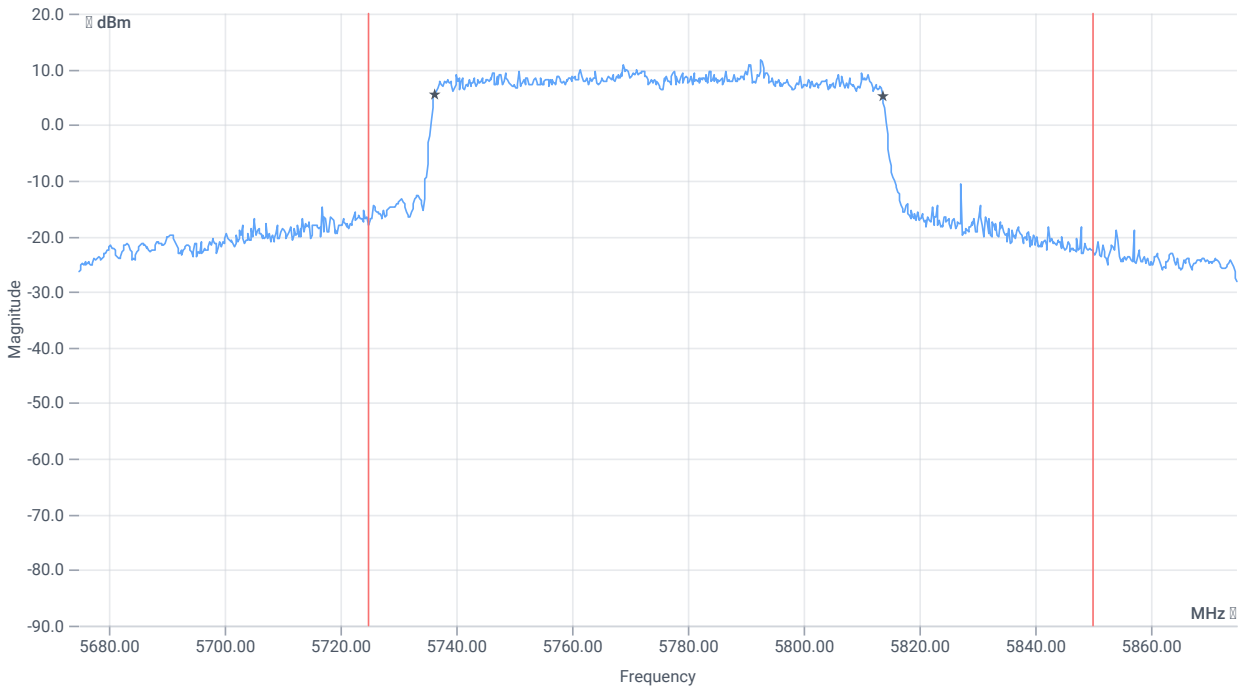
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	8.99	dBm	INFO
Ref. Frequency	--	--	5772.000	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	16.99   16.72   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

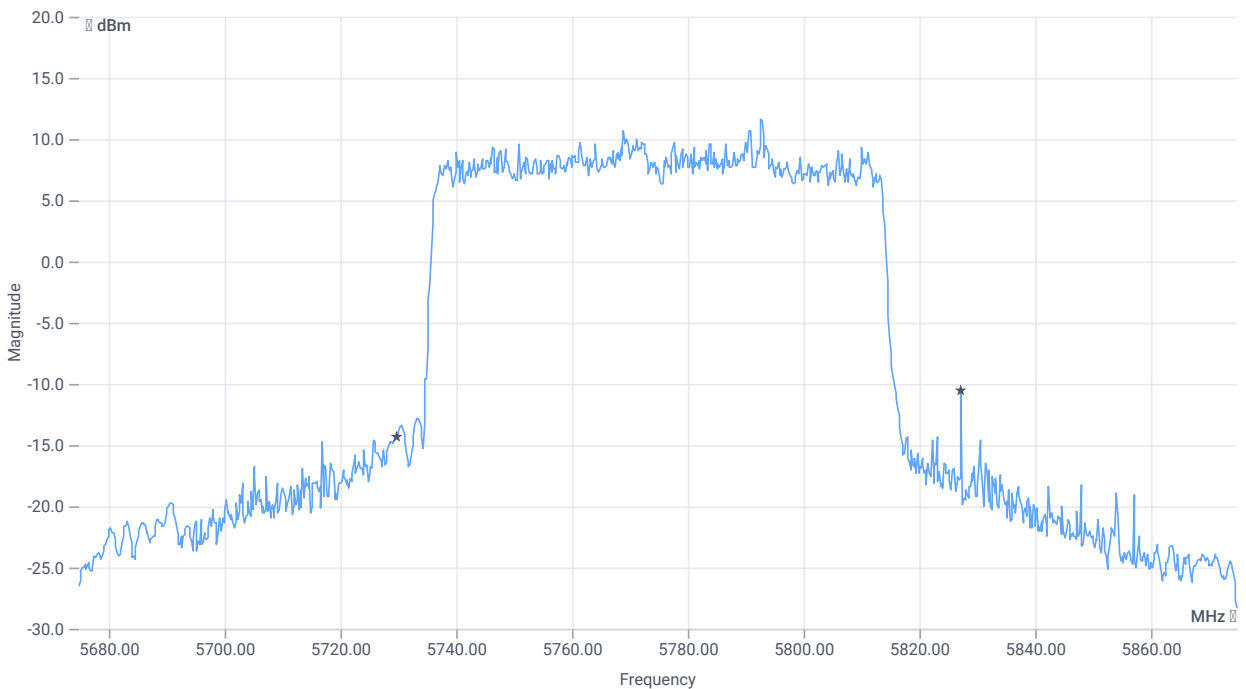




BW within Band 99PCT

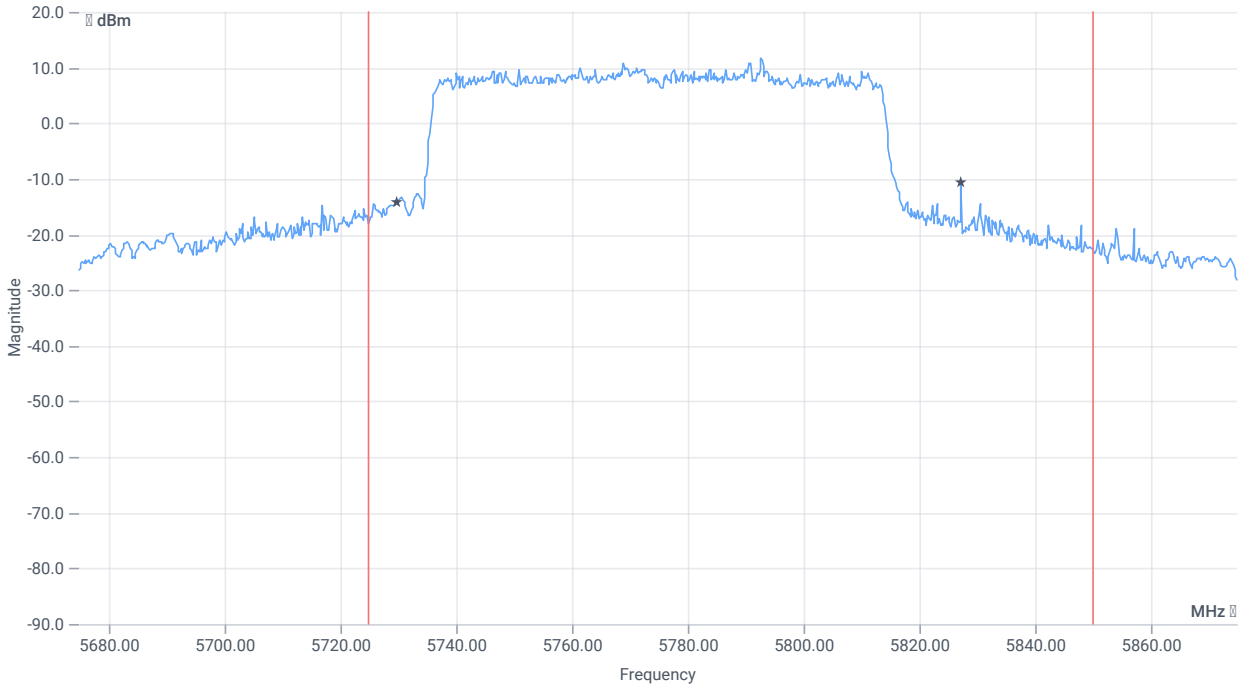
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	77.323	MHz	INFO
T1 99%	5725.000000	--	5736.4386	MHz	PASS
T2 99%	--	5850.000000	5813.7612	MHz	PASS





BW 26dB



BW within Band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	--	--	97.6	MHz	INFO
T1 26dB	5725.000000	--	5729.8000	MHz	PASS
T2 26dB	--	5850.000000	5827.4000	MHz	PASS

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ax-HE80 U-NII-3

### References

TC start	20.07.2023 13:51:40
Ambit temp [°C]   humidity [rel%]	25.5   39
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx ax-HE80 U-NII-3
Information	PS72

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

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

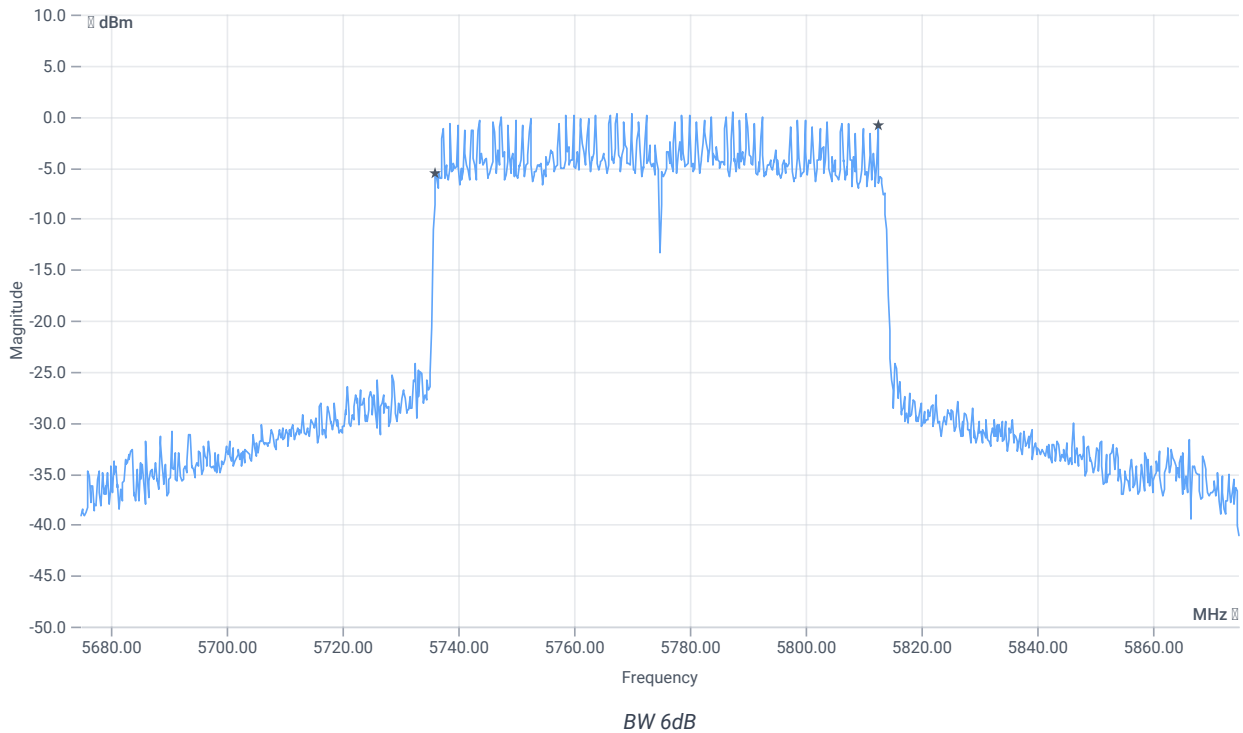
## Test at TX 5775 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	10.26	dBm	INFO
Ref. Frequency	--	--	5802.370	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	22.26   16.72   25
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 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-3

### References

TC start	20.07.2023 13:52:09
Ambit temp [°C]   humidity [rel%]	25.5   39
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE80 U-NII-3
Information	PS72

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	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

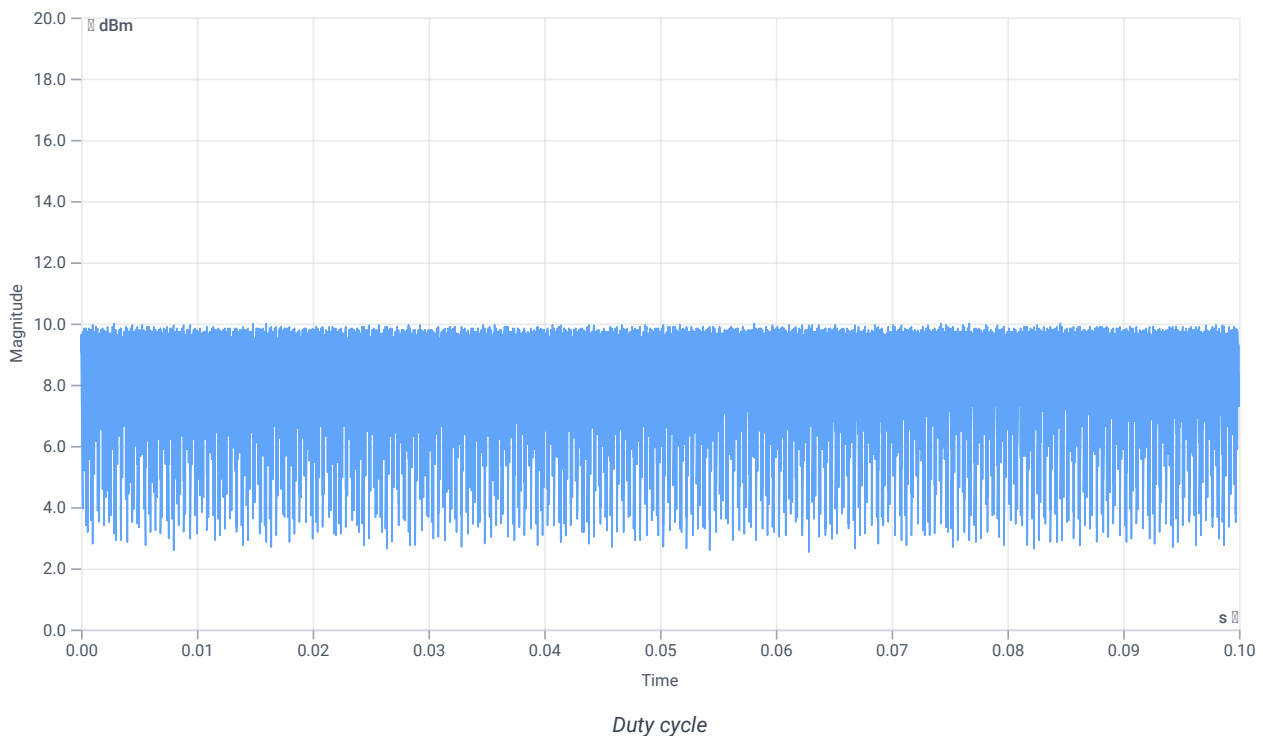
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	9.47	dBm	INFO
Ref. Frequency	--	--	5745.030	MHz	INFO

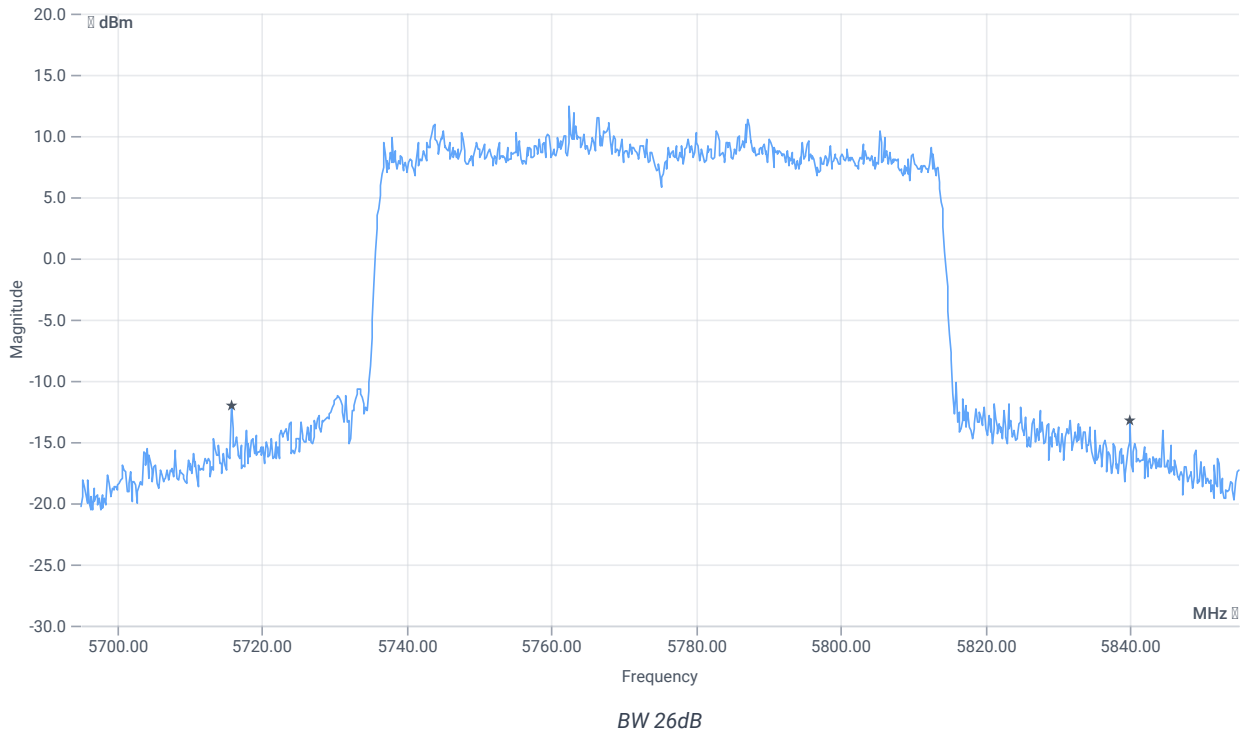
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



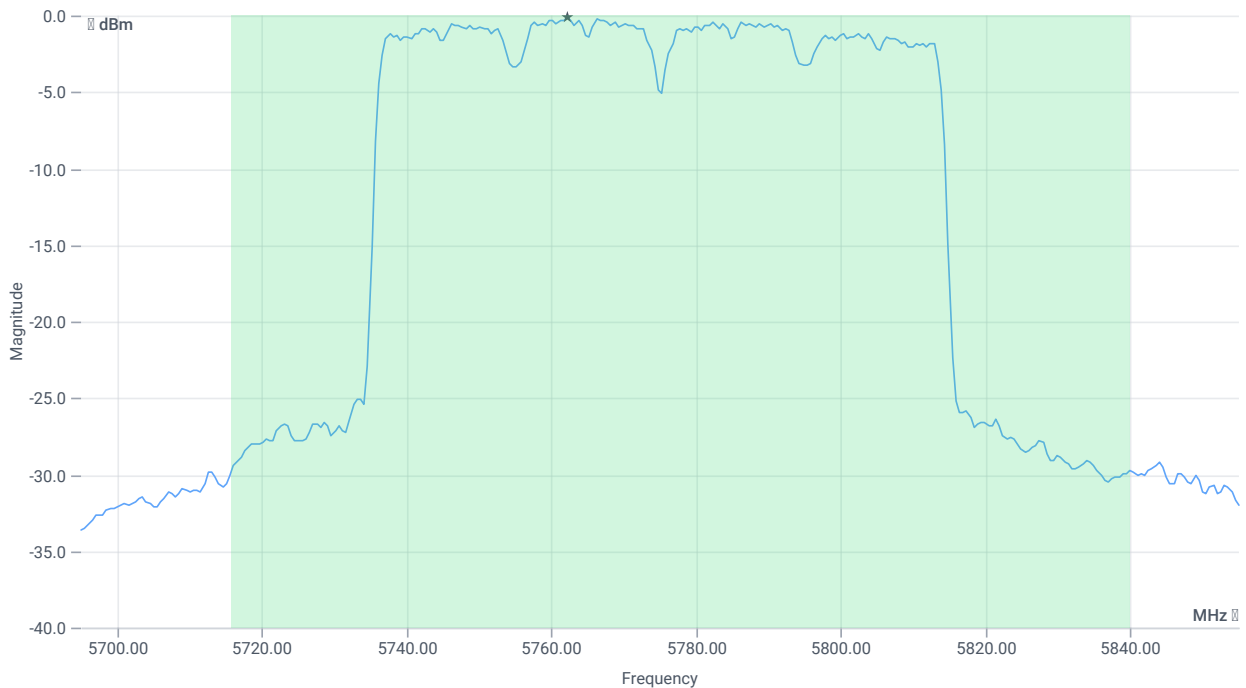
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	124.16	MHz	INFO
T1 26dB	---	---	5715.8000	MHz	INFO
T2 26dB	---	---	5839.9600	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	21.47   16.72   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

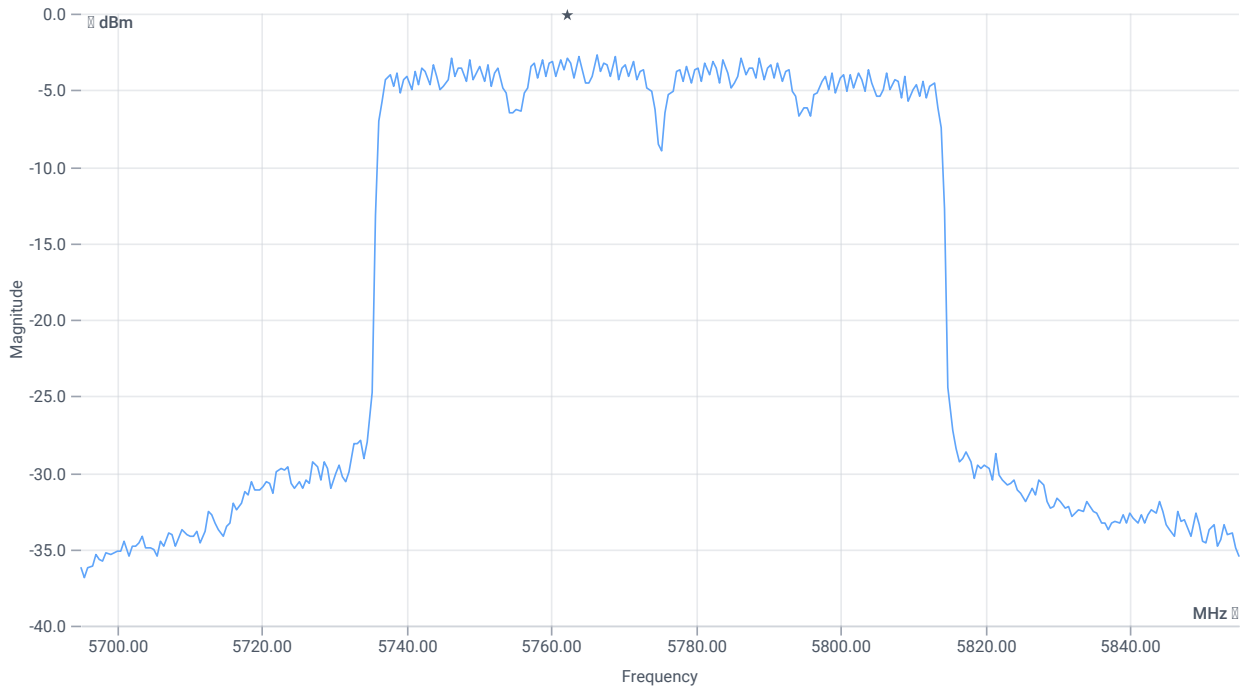
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	17.4	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	30	17.4	dBm	PASS
Limit: 11 dBm + 10 log 124.16					
Max Output Power DC corrected	--	31.94	17.4	dBm	na

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	21.47   16.72   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



PSD UNII-3

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	-2.67	dBm/0.5MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	30	-2.67	dBm/0.5MHz	PASS

Verdict

PASS



# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ax-HE80 U-NII-3

## References

TC start	20.07.2023 13:56:34
Ambit temp [°C]   humidity [rel%]	25.4   38
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE80 U-NII-3
Information	PS72

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

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

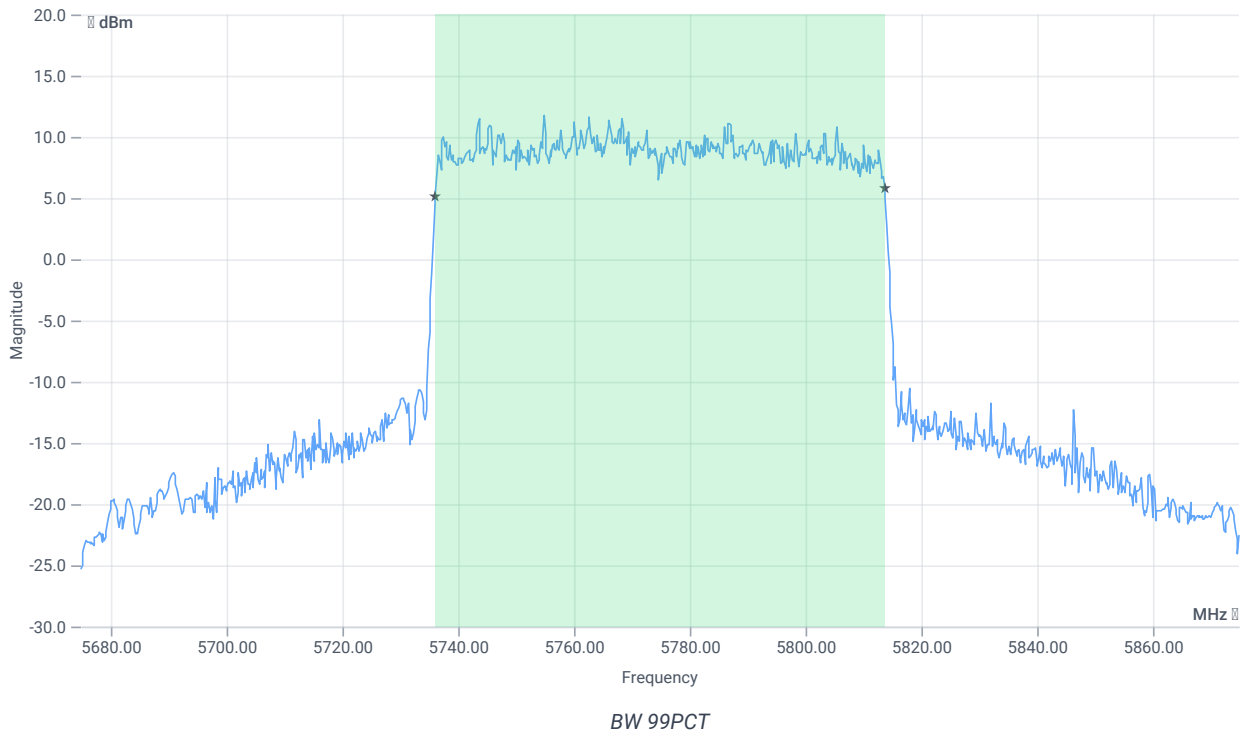
## Test at TX 5775 MHz

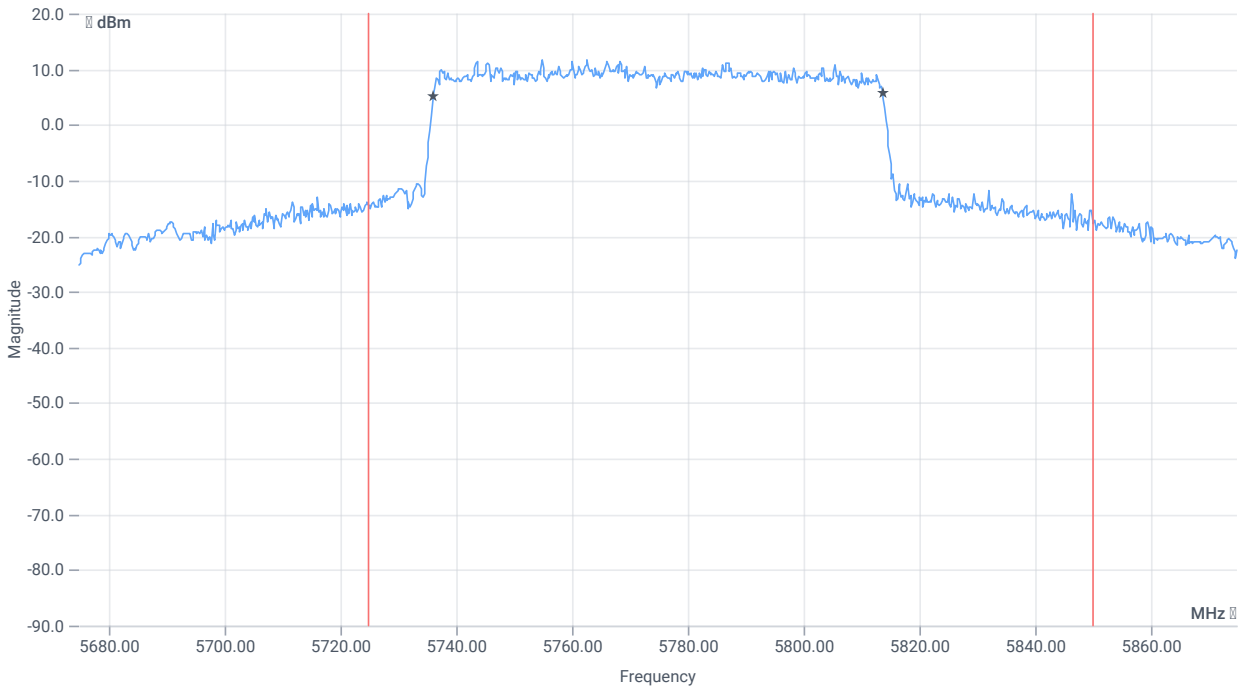
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	9.76	dBm	INFO
Ref. Frequency	--	--	5763.010	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	17.76   16.72   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

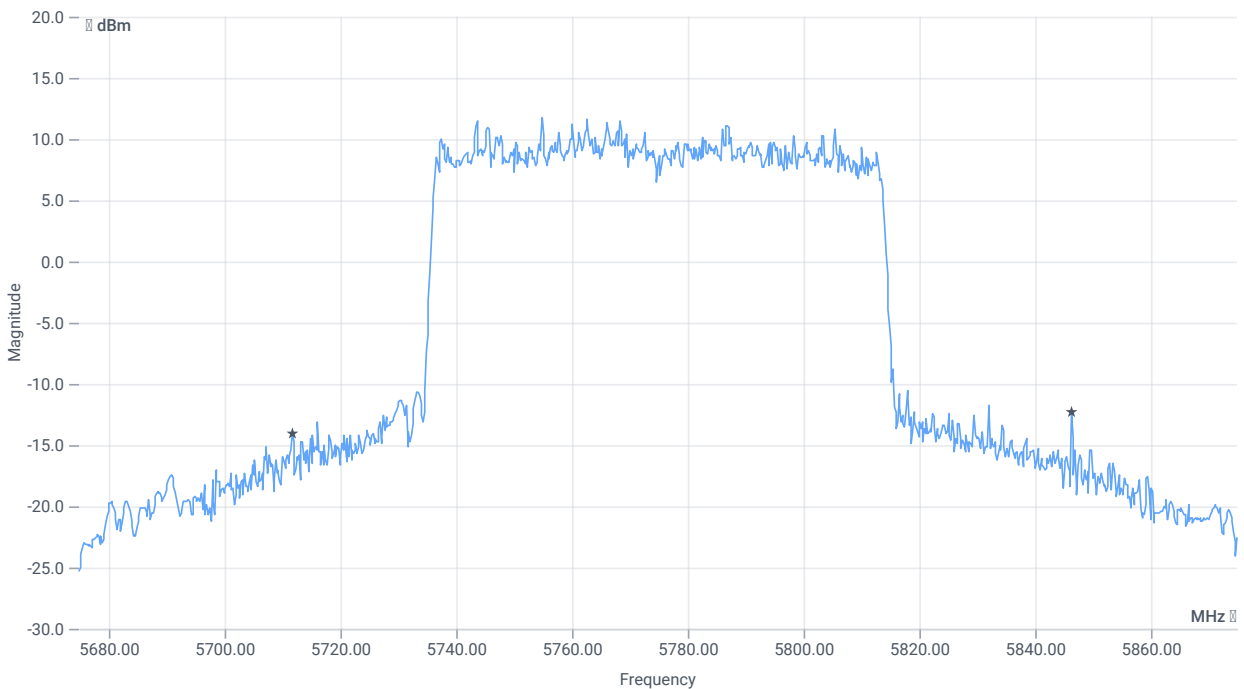




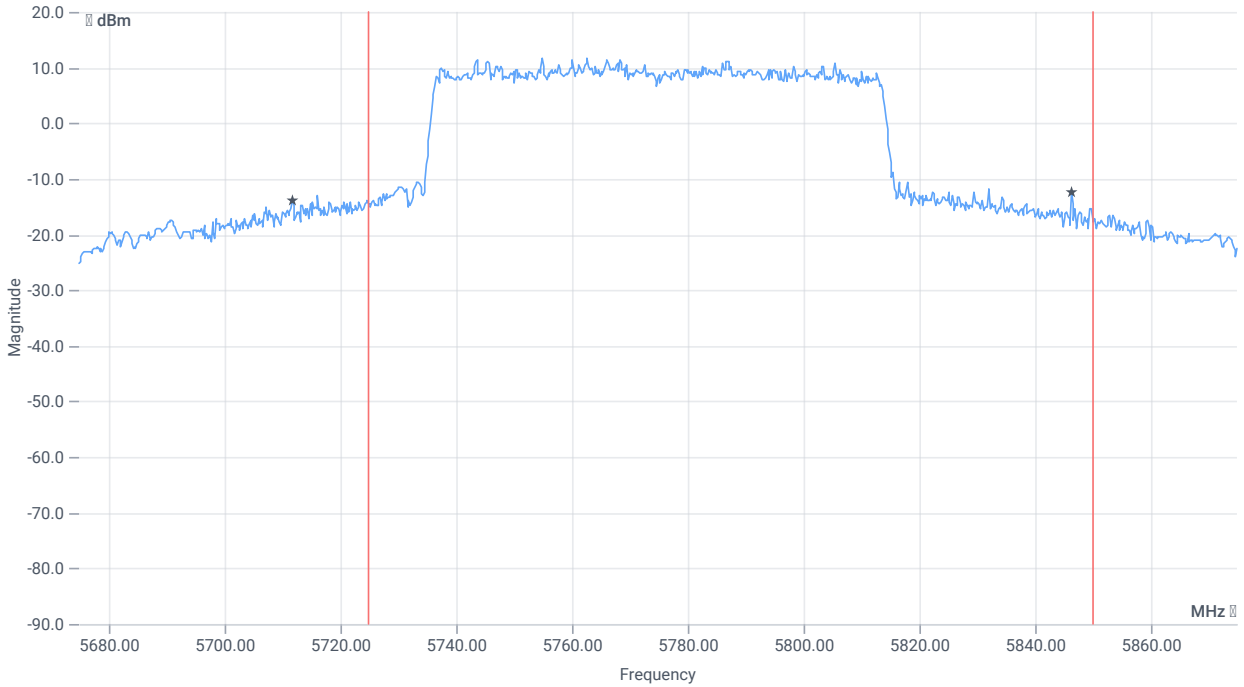
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	77.522	MHz	INFO
T1 99%	5725.000000	--	5736.2388	MHz	PASS
T2 99%	--	5850.000000	5813.7612	MHz	PASS



BW 26dB



BW within Band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	134.6	MHz	INFO
T1 26dB	5725.000000	---	5711.8000	MHz	DFS required
T2 26dB	---	5850.000000	5846.4000	MHz	PASS

Verdict

PASS

# FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ax-HE80 U-NII-3

## References

TC start	20.07.2023 13:57:11
Ambit temp [°C]   humidity [rel%]	25.4   38
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx ax-HE80 U-NII-3
Information	PS72

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

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

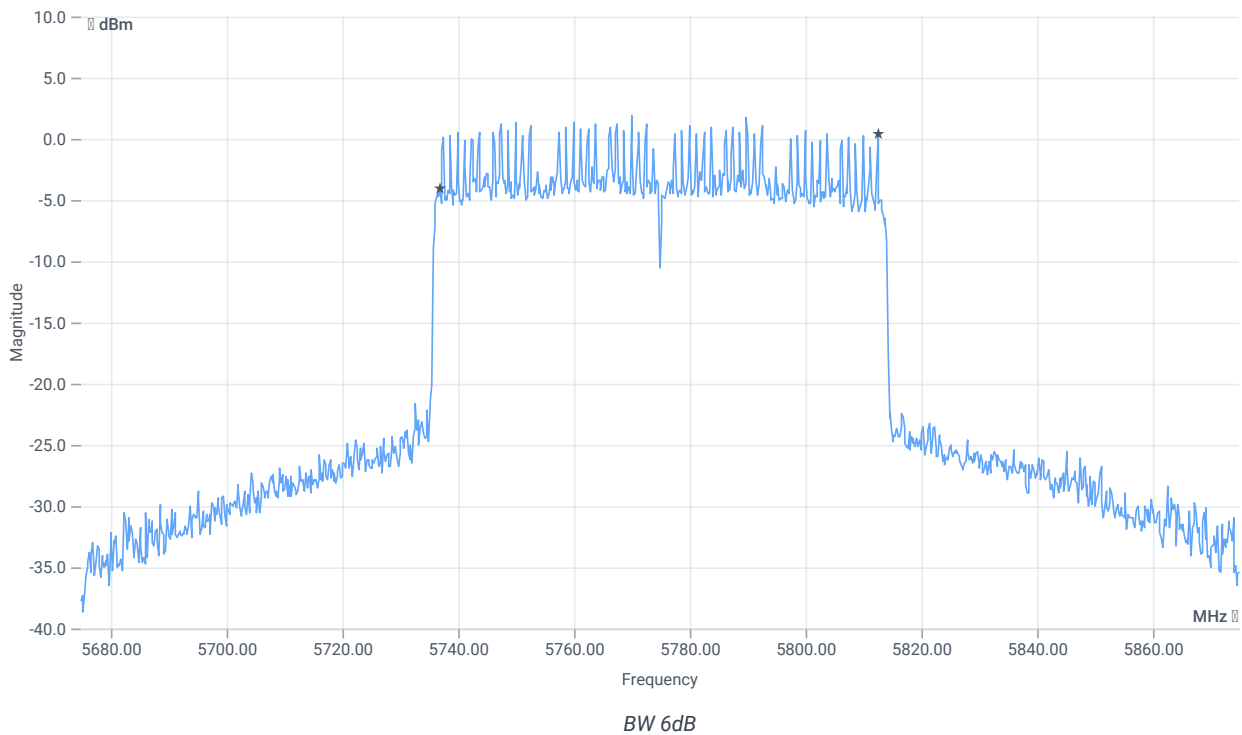
## Test at TX 5775 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	10.70	dBm	INFO
Ref. Frequency	--	--	5786.790	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	22.70   16.72   25
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	--	75.6	MHz	PASS

Verdict

PASS

# FCC 15.407 # MIMO Σ Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-1

## References

TC start	12.07.2023 15:11:32
Ambit temp [°C]   humidity [rel%]	27.2   49
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO Σ FCC Power & psd - WLAN5Gx ax-HE80 U-NII-1
Information	

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	None

## Equipment

## Test at TX 5210 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	12.56	dBm	INFO
Ant:1 BW 26dB	--	--	81.600	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	12.61	dBm	INFO
Ant:2 BW 26dB	--	--	80.960	MHz	INFO
Σ Limit absolute	--	24	15.6	dBm	PASS
Σ Limit: 11 dBm + 10 log 80.96	--	30.08	15.6	dBm	na

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	-4.82	dBm/1MHz	INFO
Ant:2 PSD	--	--	-4.85	dBm/1MHz	INFO
Σ	--	11	-1.82	dBm/1MHz	PASS

Verdict

PASS



# FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2A

## References

TC start	12.07.2023 15:19:09
Ambit temp [°C]   humidity [rel%]	27.2   49
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx ax-HE80 U-NII-2A
Information	

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	None

## Equipment

## Test at TX 5290 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	11.47	dBm	INFO
Ant:1 BW 26dB	--	--	81.280	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	12.53	dBm	INFO
Ant:2 BW 26dB	--	--	81.120	MHz	INFO
Σ Limit absolute	--	24	15.04	dBm	PASS
Σ Limit: 11 dBm + 10 log 81.12	--	30.09	15.04	dBm	PASS

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	-6.08	dBm/1MHz	INFO
Ant:2 PSD	--	--	-4.91	dBm/1MHz	INFO
Σ	--	11	-2.45	dBm/1MHz	PASS

### Verdict

PASS

# FCC 15.407 # MIMO Σ Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C

## References

TC start	12.07.2023 15:19:19
Ambit temp [°C]   humidity [rel%]	27.2   49
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO Σ FCC Power & psd - WLAN5Gx ax-HE80 U-NII-2C
Information	

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx ax-HE80
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5530
Frequency mid to test	True   Freq [MHz] 5610
Frequency high to test	True   Freq [MHz] 5690
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

## Equipment

## Test at TX 5530 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	12.41	dBm	INFO
Ant:1 BW 26dB	--	--	81.440	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	13.46	dBm	INFO
Ant:2 BW 26dB	--	--	80.800	MHz	INFO
$\Sigma$ Limit absolute	--	24	15.98	dBm	PASS
$\Sigma$ Limit: 11 dBm + 10 log 80.8	--	30.07	15.98	dBm	PASS

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	-5.12	dBm/1MHz	INFO
Ant:2 PSD	--	--	-4.02	dBm/1MHz	INFO
$\Sigma$	--	11	-1.52	dBm/1MHz	PASS

## Test at TX 5610 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	17.89	dBm	INFO
Ant:1 BW 26dB	--	--	155.200	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	19.4	dBm	INFO
Ant:2 BW 26dB	--	--	146.240	MHz	INFO
$\Sigma$ Limit absolute	--	24	21.72	dBm	PASS
$\Sigma$ Limit: 11 dBm + 10 log 146.24	--	32.65	21.72	dBm	PASS

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	0.39	dBm/1MHz	INFO
Ant:2 PSD	--	--	1.98	dBm/1MHz	INFO
$\Sigma$	--	11	4.27	dBm/1MHz	PASS

## Test at TX 5690 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	17.53	dBm	INFO
Ant:1 BW 26dB	--	--	141.440	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	19.21	dBm	INFO
Ant:2 BW 26dB	--	--	144.480	MHz	INFO
Σ Limit absolute	--	24	21.46	dBm	PASS
Σ Limit: 11 dBm + 10 log 141.44	--	32.51	21.46	dBm	PASS

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	-0.09	dBm/1MHz	INFO
Ant:2 PSD	--	--	1.86	dBm/1MHz	INFO
Σ	--	11	4	dBm/1MHz	PASS

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-3

### References

TC start	20.07.2023 14:11:54
Ambit temp [°C]   humidity [rel%]	25.4   38
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx ax-HE80 U-NII-3
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx ax-HE80
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]	1.3
Switched path	None

### Equipment

## Test at TX 5775 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	16.34	dBm	INFO
Ant:1 BW 26dB	--	--	104.000	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	17.4	dBm	INFO
Ant:2 BW 26dB	--	--	124.160	MHz	INFO
Σ Limit absolute	--	30	19.91	dBm	PASS
Σ Limit: 11 dBm + 10 log 104	--	31.17	19.91	dBm	na

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	-3.84	dBm/0.5MHz	INFO
Ant:2 PSD	--	--	-2.67	dBm/0.5MHz	INFO
Σ	--	30	-0.21	dBm/0.5MHz	PASS

Verdict

PASS

- END OF DOCUMENT -