

# FCC 15.247 # MIMO Power PSD Calculator ~ WLAN5Gx n-HT20 mode U-NII-2C

## Test References

TC Start	13.12.2022 11:05:55
Ambit Temp [°C]   Humidity [rel%]	24.7   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	
TC Version	0.0.1
My Description	FCC MIMO_Power_PSD_Calculator - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

## EUT Common Settings WLAN5Gx

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

## Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	several
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	None

## Test Equipment

## Test at TX 5500 MHz

### RESULT Power

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ant:1 Max Output Power DC corrected	--	--	15.91	dBm	INFO
Ant:1 BW 26dB	--	--	20.600	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	14.82	dBm	INFO
Ant:2 BW 26dB	--	--	20.760	MHz	INFO
Ant:3 Max Output Power DC corrected	--	--	15.06	dBm	INFO
Ant:3 BW 26dB	--	--	20.440	MHz	INFO
Ant:4 Max Output Power DC corrected	--	--	14.82	dBm	INFO
Ant:4 BW 26dB	--	--	20.560	MHz	INFO
Σ Limit absolute	--	24	21.2	dBm	PASS
Σ Limit: 11 dBm + 10 log 20.44	--	24.1	21.2	dBm	PASS

### RESULT PSD

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ant:1 PSD	--	--	5.38	dBm/1MHz	INFO
Ant:2 PSD	--	--	3.59	dBm/1MHz	INFO
Ant:3 PSD	--	--	3.64	dBm/1MHz	INFO
Ant:4 PSD	--	--	3.94	dBm/1MHz	INFO
Σ	--	11	10.22	dBm/1MHz	PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 11:05:03
Ambit Temp [°C]   Humidity [rel%]	24.7   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.23	dBm	INFO
Ref. Frequency	---	---	5504.800	MHz	INFO

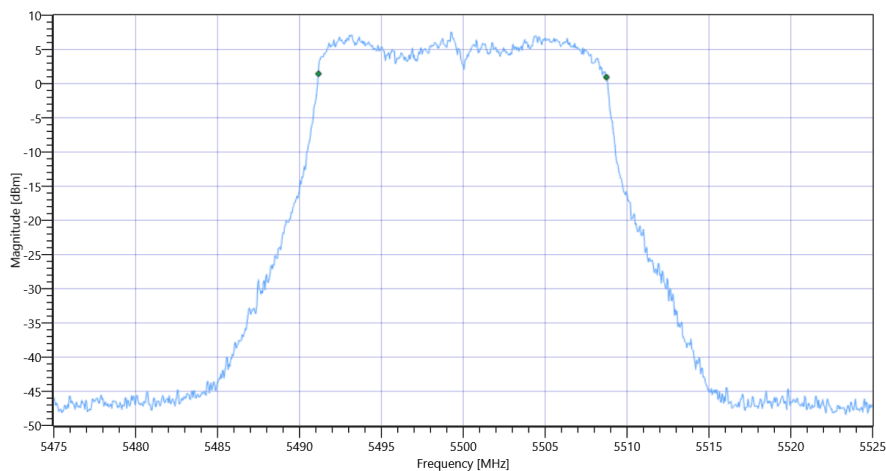
## READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.24   5.3   30
Start [MHz]   Stop [MHz]	5475.000   5525.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

## RESULT

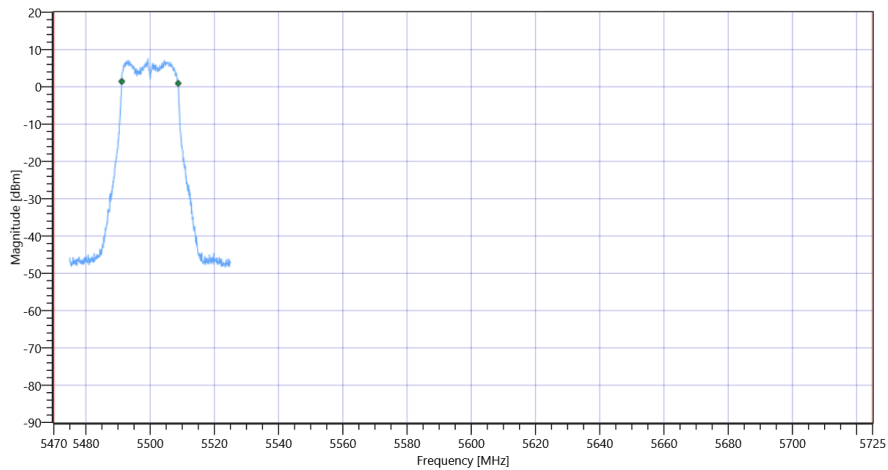
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.582	MHz	INFO
T1 99%	5470.000000	---	5491.1588	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5508.7413	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

## Plot: Bandwidth within Band

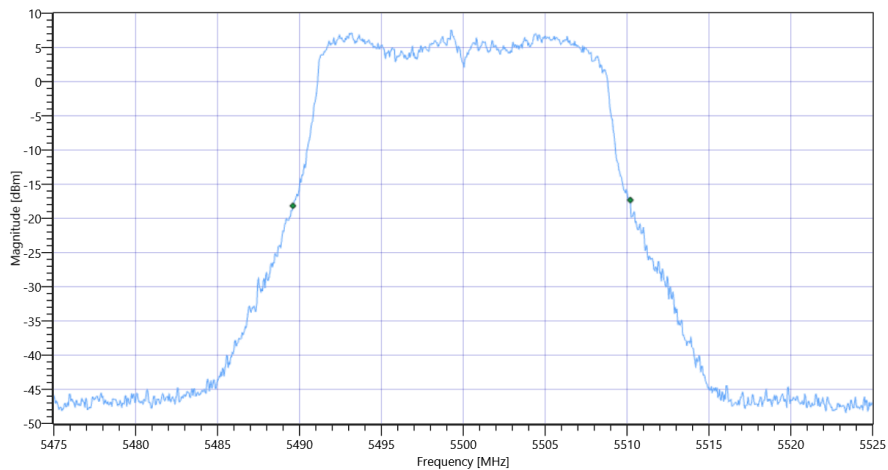


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

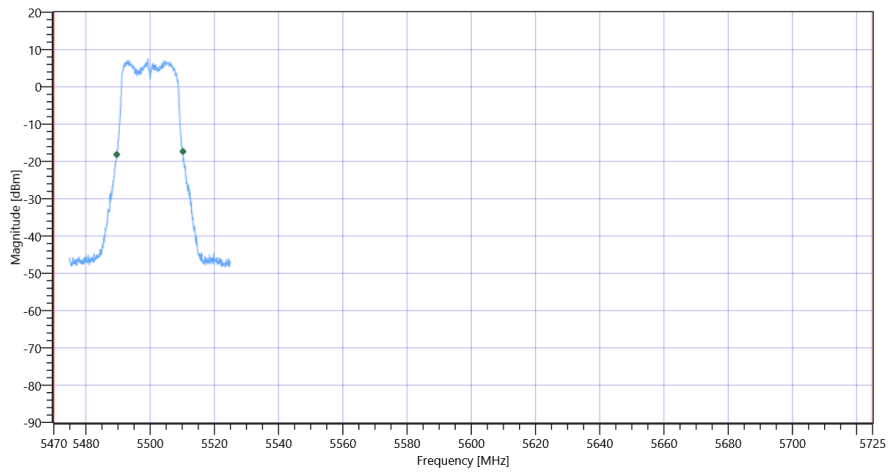
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.6	MHz	INFO
T1 26dB	5470.000000	---	5489.6000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5510.2000	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

## Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 11:03:26
Ambit Temp [°C]   Humidity [rel%]	24.7   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.08	dBm	INFO
Ref. Frequency	---	---	5492.410	MHz	INFO

Evaluation max. Duty Cycle

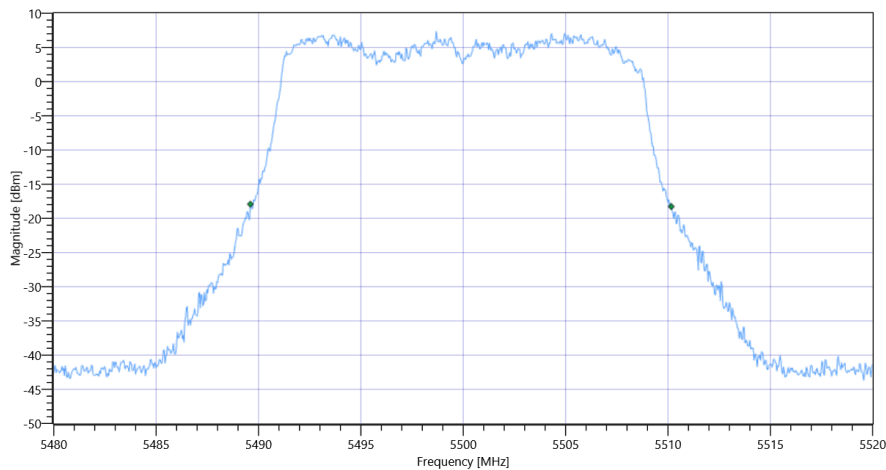
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.56	MHz	INFO
T1 26dB	---	---	5489.6000	MHz	INFO
T2 26dB	---	---	5510.1600	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

Maximum Output Power

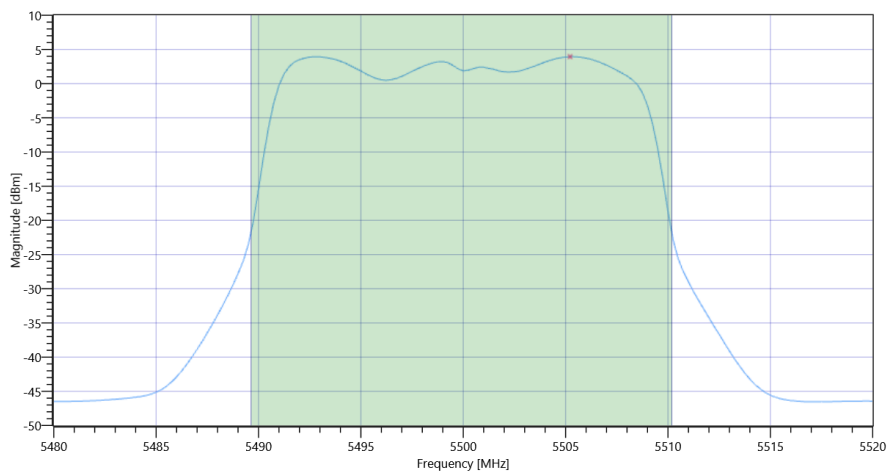
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.08   5.3   35
Start [MHz]   Stop [MHz]	5480.000   5520.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE



RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	14.82	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	14.82	dBm	PASS
Limit: 11 dBm + 10 log 20.56					
Max Output Power DC corrected	--	24.13	14.82	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	3.94	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	3.94	dBm/1MHz	PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 11:02:33
Ambit Temp [°C]   Humidity [rel%]	24.7   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.62	dBm	INFO
Ref. Frequency	---	---	5501.400	MHz	INFO

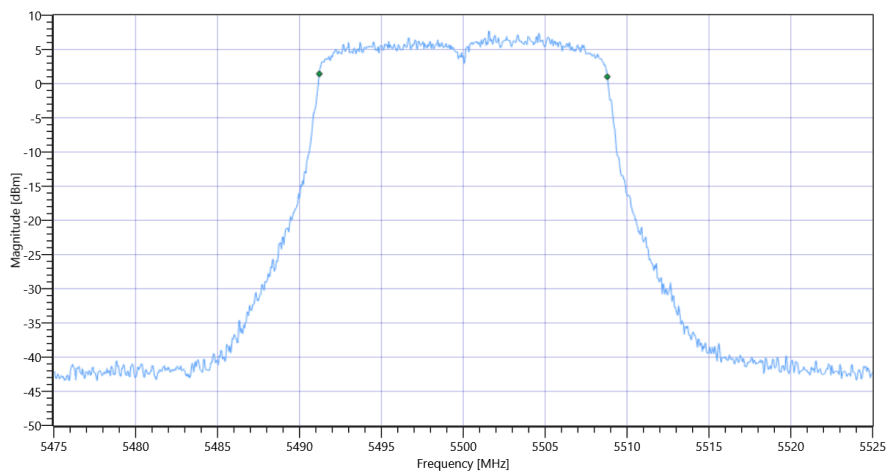
## READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.62   5.3   35
Start [MHz]   Stop [MHz]	5475.000   5525.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

## RESULT

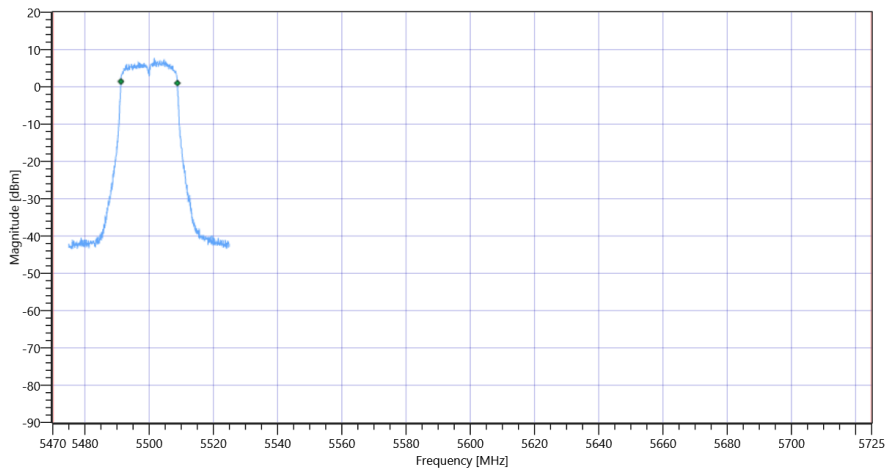
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.582	MHz	INFO
T1 99%	5470.000000	---	5491.2088	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5508.7912	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

## Plot: Bandwidth within Band

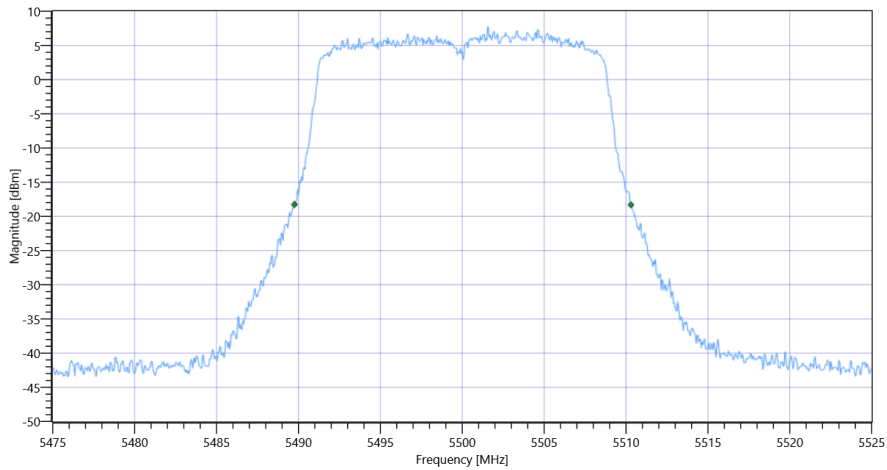


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

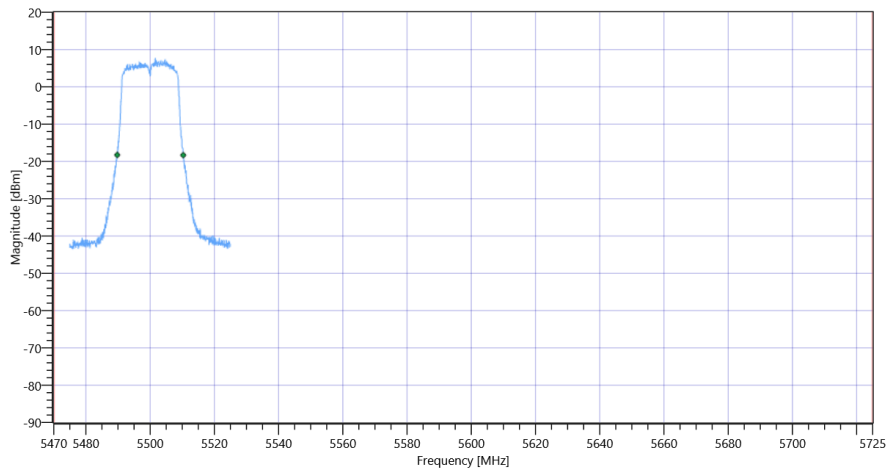
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.55	MHz	INFO
T1 26dB	5470.000000	---	5489.7500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5510.3000	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

## Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 11:00:56
Ambit Temp [°C]   Humidity [rel%]	24.7   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	11.42	dBm	INFO
Ref. Frequency	---	---	5503.000	MHz	INFO

Evaluation max. Duty Cycle

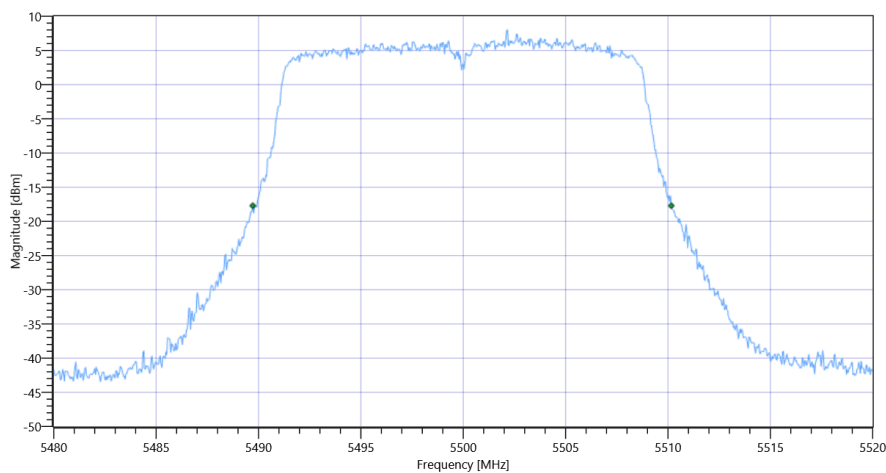
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.44	MHz	INFO
T1 26dB	---	---	5489.7200	MHz	INFO
T2 26dB	---	---	5510.1600	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

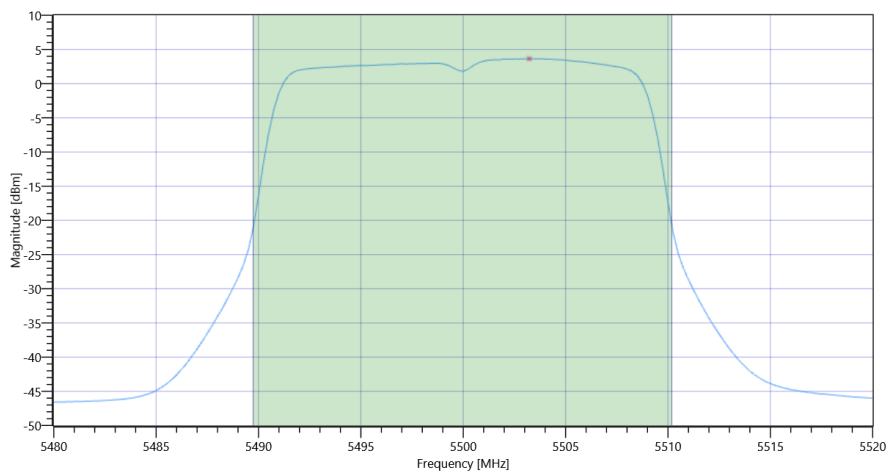
Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.42   5.3   35
Start [MHz]   Stop [MHz]	5480.000   5520.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	15.06	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	15.06	dBm	PASS
Limit: 11 dBm + 10 log 20.44					
Max Output Power DC corrected	---	24.1	15.06	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	3.64	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	3.64	dBm/1MHz	PASS



## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 11:00:04
Ambit Temp [°C]   Humidity [rel%]	24.6   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.74	dBm	INFO
Ref. Frequency	---	---	5496.200	MHz	INFO

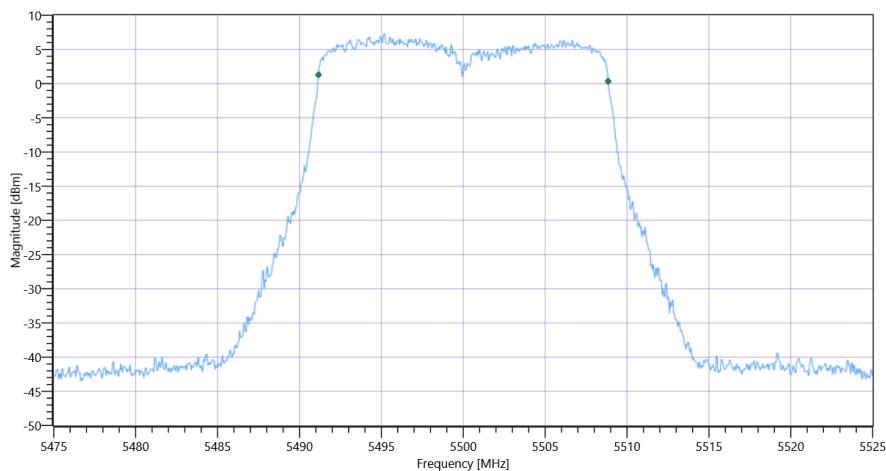
## READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.74   5.3   35
Start [MHz]   Stop [MHz]	5475.000   5525.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

## RESULT

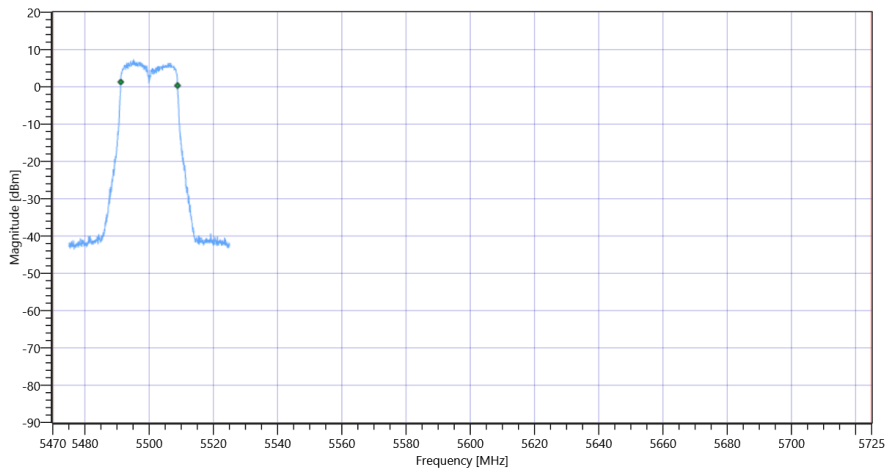
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.682	MHz	INFO
T1 99%	5470.000000	---	5491.1588	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5508.8412	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

## Plot: Bandwidth within Band

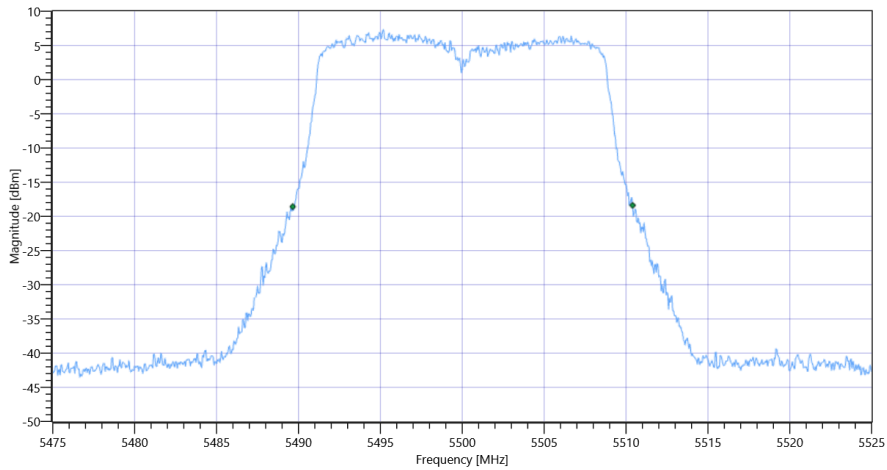


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

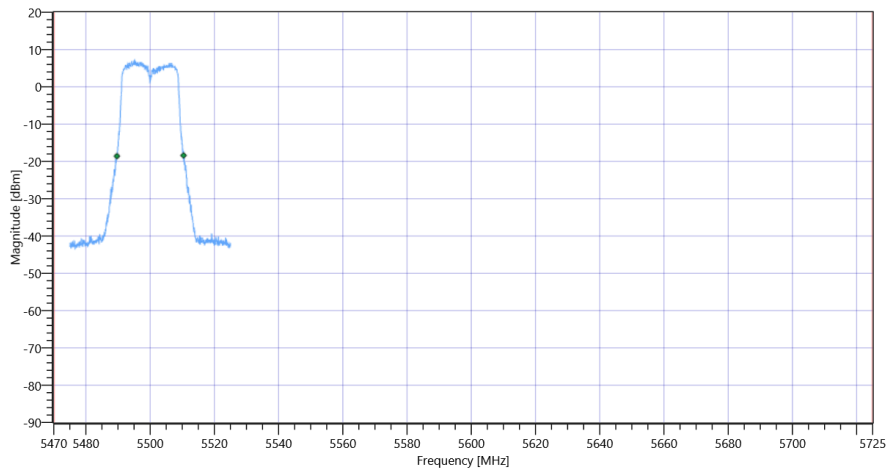
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.75	MHz	INFO
T1 26dB	5470.000000	---	5489.6500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5510.4000	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

## Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 10:58:27
Ambit Temp [°C]   Humidity [rel%]	24.6   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	11.26	dBm	INFO
Ref. Frequency	---	---	5507.390	MHz	INFO

Evaluation max. Duty Cycle

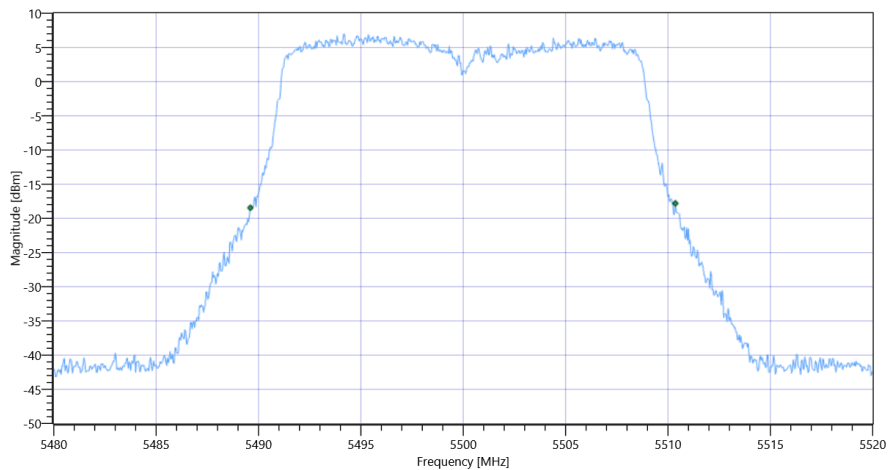
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.76	MHz	INFO
T1 26dB	---	---	5489.6000	MHz	INFO
T2 26dB	---	---	5510.3600	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

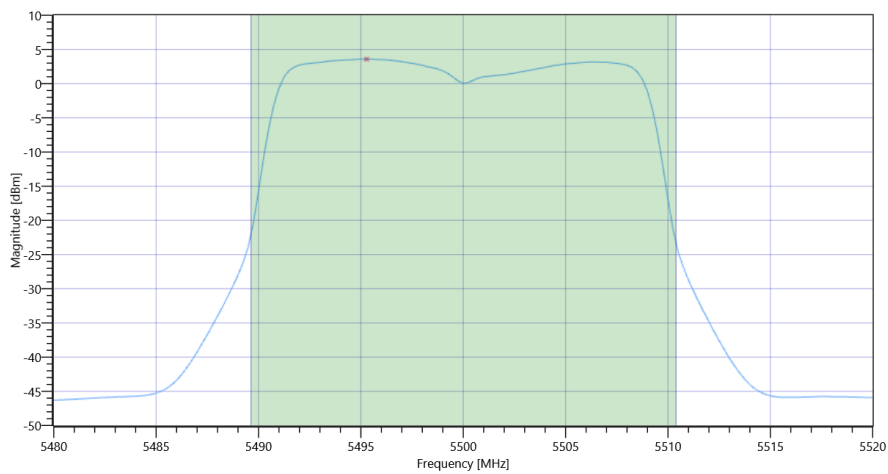
Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.26   5.3   35
Start [MHz]   Stop [MHz]	5480.000   5520.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	14.82	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	14.82	dBm	PASS
Limit: 11 dBm + 10 log 20.76					
Max Output Power DC corrected	--	24.17	14.82	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	3.59	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	3.59	dBm/1MHz	PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 10:57:35
Ambit Temp [°C]   Humidity [rel%]	24.7   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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



## Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.97	dBm	INFO
Ref. Frequency	---	---	5493.810	MHz	INFO

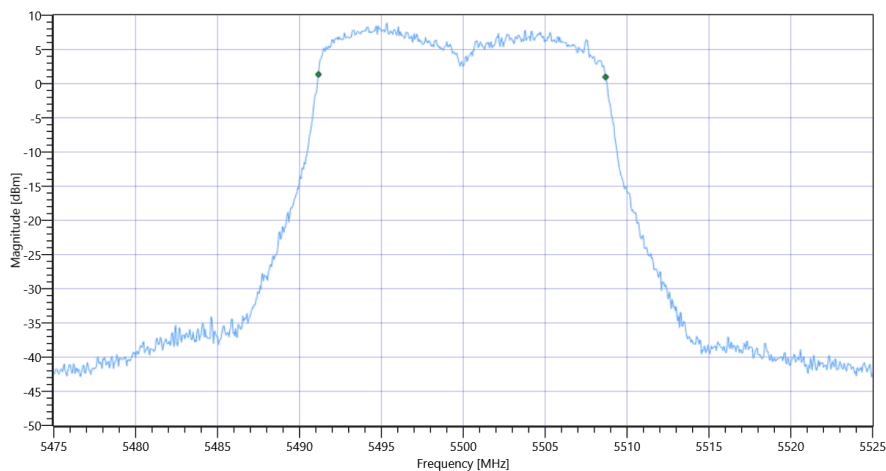
## READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.97   5.3   35
Start [MHz]   Stop [MHz]	5475.000   5525.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

## RESULT

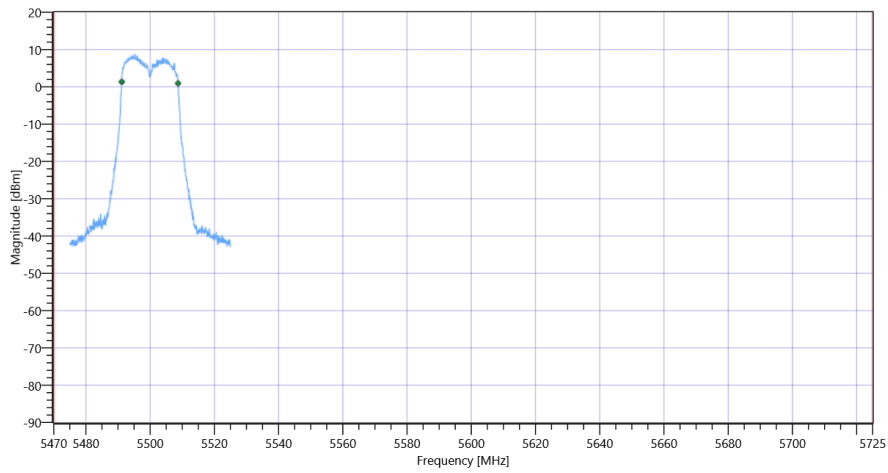
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.532	MHz	INFO
T1 99%	5470.000000	---	5491.1588	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5508.6913	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

## Plot: Bandwidth within Band

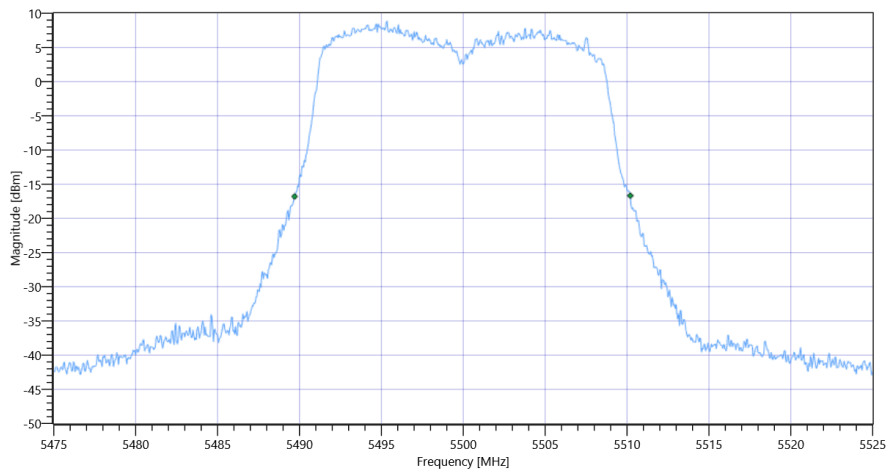


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

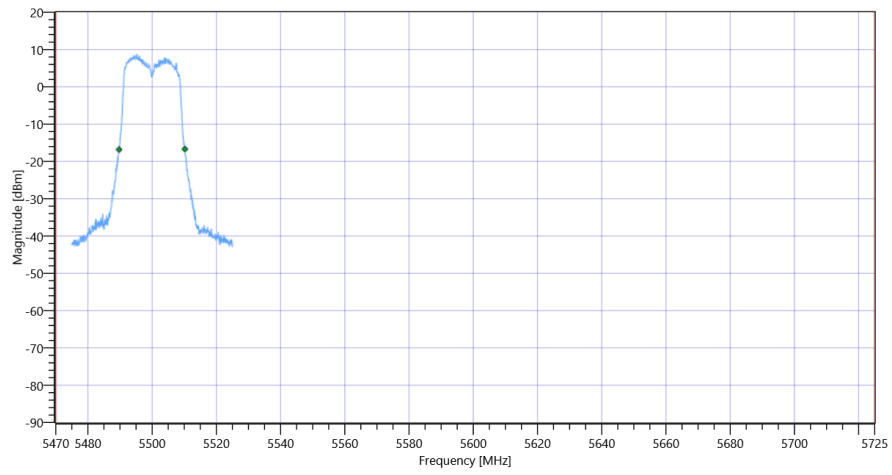
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.5	MHz	INFO
T1 26dB	5470.000000	---	5489.7000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5510.2000	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

## Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 10:55:59
Ambit Temp [°C]   Humidity [rel%]	24.6   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C

Add. Information

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	--	--	13.20	dBm	INFO
Ref. Frequency	--	--	5495.400	MHz	INFO

Evaluation max. Duty Cycle

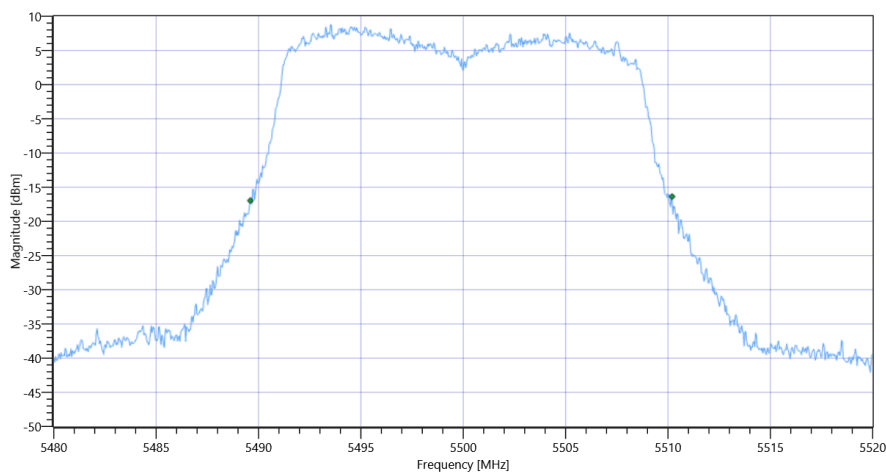
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	--	--	0	dB	DC > 98% defined

Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.6	MHz	INFO
T1 26dB	--	--	5489.6000	MHz	INFO
T2 26dB	--	--	5510.2000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

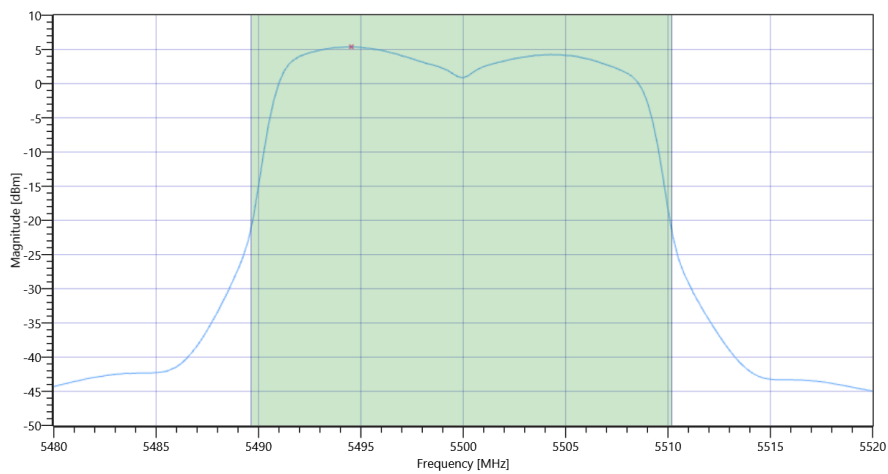
Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	25.20   5.3   35
Start [MHz]   Stop [MHz]	5480.000   5520.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	15.91	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	15.91	dBm	PASS
Limit: 11 dBm + 10 log 20.6					
Max Output Power DC corrected	--	24.14	15.91	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	5.38	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	5.38	dBm/1MHz	PASS

# FCC 15.247 # MIMO Power PSD Calculator ~ WLAN5Gx n-HT20 mode U-NII-2C

## Test References

TC Start	13.12.2022 12:05:01
Ambit Temp [°C]   Humidity [rel%]	25.2   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	
TC Version	0.0.1
My Description	FCC MIMO_Power_PSD_Calculator - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

## EUT Common Settings WLAN5Gx

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

## Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	several
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	None

## Test Equipment

## Test at TX 5600 MHz

### RESULT Power

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ant:1 Max Output Power DC corrected	--	--	14.94	dBm	INFO
Ant:1 BW 26dB	--	--	20.720	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	14.48	dBm	INFO
Ant:2 BW 26dB	--	--	20.680	MHz	INFO
Ant:3 Max Output Power DC corrected	--	--	15.31	dBm	INFO
Ant:3 BW 26dB	--	--	20.840	MHz	INFO
Ant:4 Max Output Power DC corrected	--	--	15.06	dBm	INFO
Ant:4 BW 26dB	--	--	20.160	MHz	INFO
Σ Limit absolute	--	24	20.98	dBm	PASS
Σ Limit: 11 dBm + 10 log 20.16	--	24.04	20.98	dBm	PASS

### RESULT PSD

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ant:1 PSD	--	--	4.23	dBm/1MHz	INFO
Ant:2 PSD	--	--	3.88	dBm/1MHz	INFO
Ant:3 PSD	--	--	3.76	dBm/1MHz	INFO
Ant:4 PSD	--	--	5.33	dBm/1MHz	INFO
Σ	--	11	10.37	dBm/1MHz	PASS



## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:04:09
Ambit Temp [°C]   Humidity [rel%]	25.2   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.80	dBm	INFO
Ref. Frequency	---	---	5602.200	MHz	INFO

## READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.80   5.34   35
Start [MHz]   Stop [MHz]	5575.000   5625.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

## RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.532	MHz	INFO
T1 99%	5470.000000	---	5591.3087	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5608.8412	MHz	

Plot: Bandwidth only

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

Plot: Bandwidth within Band

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	19.8	MHz	INFO
T1 26dB	5470.000000	---	5590.2500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5610.0500	MHz	

Plot: Bandwidth only

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

Plot: Bandwidth within Band

*FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C*

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:02:32
Ambit Temp [°C]   Humidity [rel%]	25.2   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	--	--	13.72	dBm	INFO
Ref. Frequency	--	--	5601.600	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	--	--	0	dB	DC > 98% defined

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.16	MHz	INFO
T1 26dB	--	--	5589.9200	MHz	INFO
T2 26dB	--	--	5610.0800	MHz	INFO

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	25.72   5.34   35
Start [MHz]   Stop [MHz]	5580.000   5620.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

## RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	15.06	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	15.06	dBm	PASS
Limit: 11 dBm + 10 log 20.16					
Max Output Power DC corrected	--	24.04	15.06	dBm	PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

## Power Spectral Density

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	5.33	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	5.33	dBm/1MHz	PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:01:40
Ambit Temp [°C]   Humidity [rel%]	25.2   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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



## Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.74	dBm	INFO
Ref. Frequency	---	---	5599.600	MHz	INFO

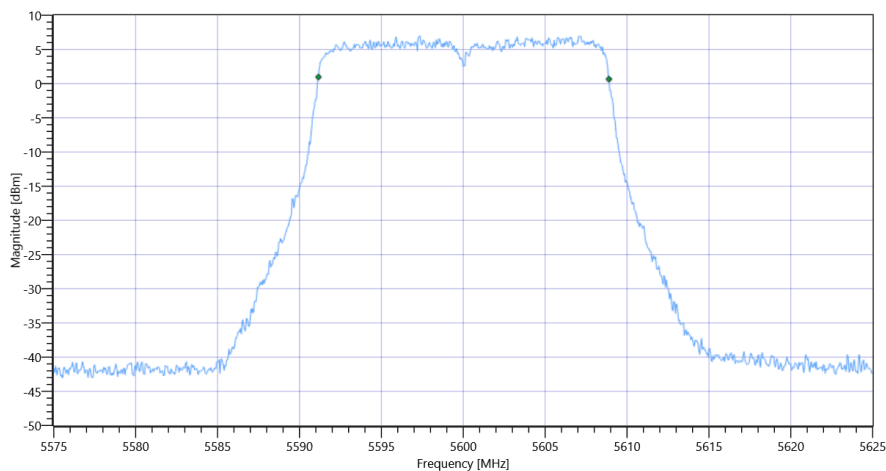
## READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.74   5.34   35
Start [MHz]   Stop [MHz]	5575.000   5625.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

## RESULT

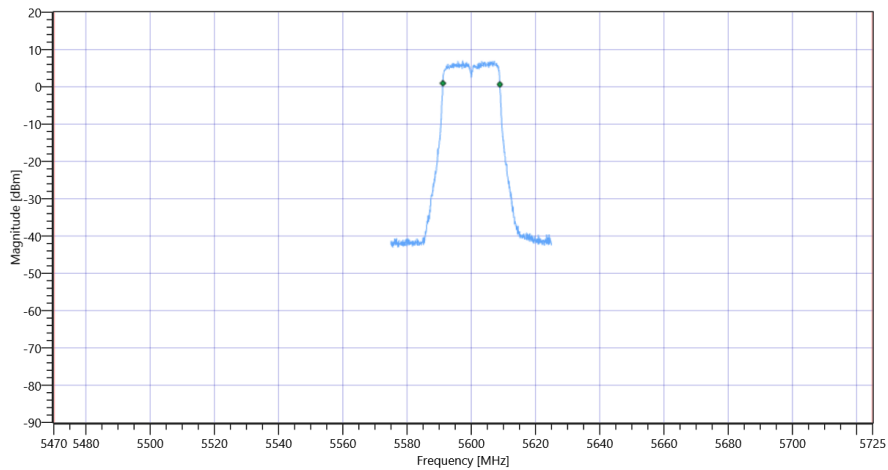
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.732	MHz	INFO
T1 99%	5470.000000	---	5591.1588	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5608.8911	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

## Plot: Bandwidth within Band

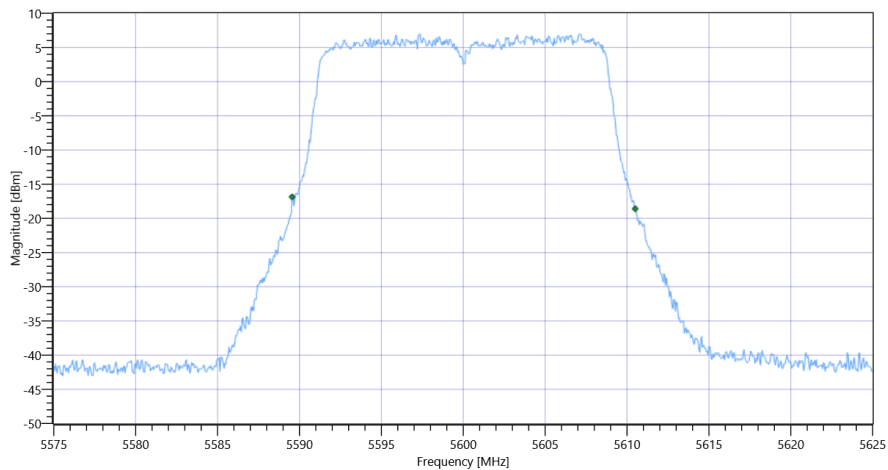


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

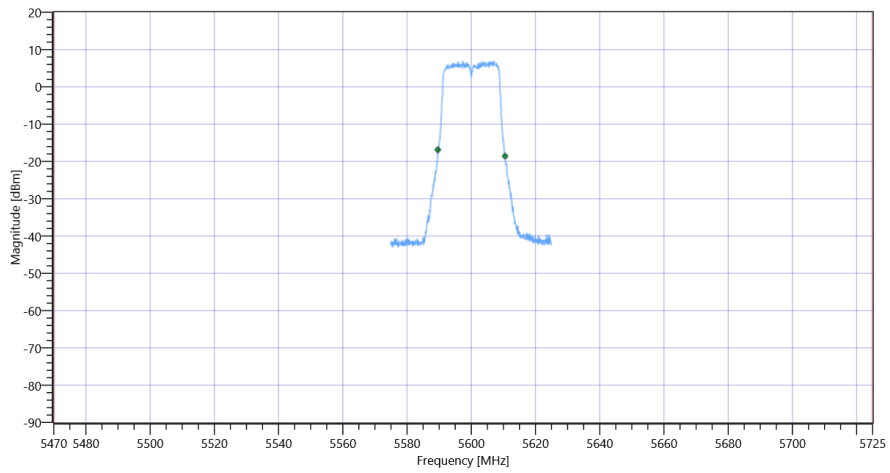
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.95	MHz	INFO
T1 26dB	5470.000000	---	5589.5500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5610.5000	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

## Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:00:03
Ambit Temp [°C]   Humidity [rel%]	25.1   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.75	dBm	INFO
Ref. Frequency	---	---	5599.400	MHz	INFO

Evaluation max. Duty Cycle

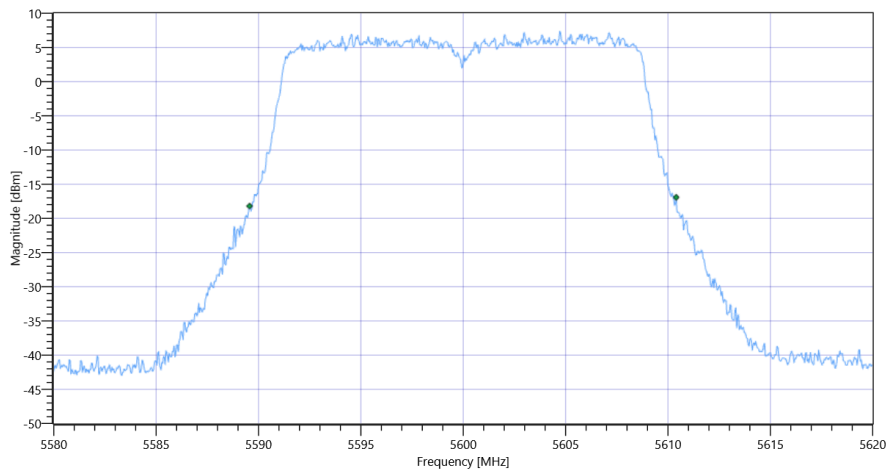
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.84	MHz	INFO
T1 26dB	---	---	5589.5600	MHz	INFO
T2 26dB	---	---	5610.4000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

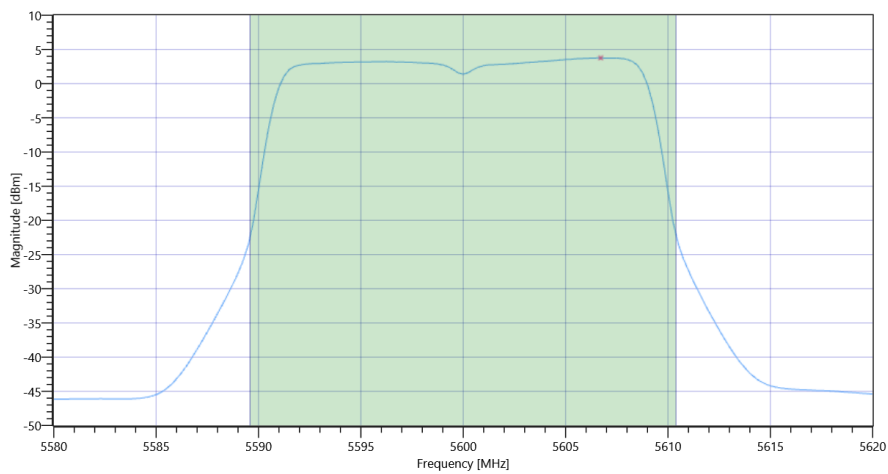
Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.75   5.34   35
Start [MHz]   Stop [MHz]	5580.000   5620.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	15.31	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	15.31	dBm	PASS
Limit: 11 dBm + 10 log 20.84					
Max Output Power DC corrected	---	24.19	15.31	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	3.76	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	3.76	dBm/1MHz	PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 11:59:11
Ambit Temp [°C]   Humidity [rel%]	25.1   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.35	dBm	INFO
Ref. Frequency	---	---	5601.800	MHz	INFO

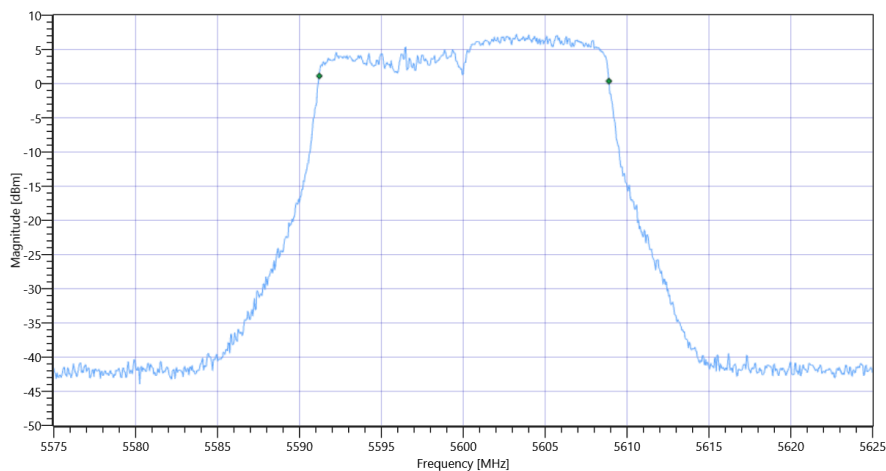
## READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.35   5.34   35
Start [MHz]   Stop [MHz]	5575.000   5625.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

## RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.682	MHz	INFO
T1 99%	5470.000000	---	5591.2088	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5608.8911	MHz	

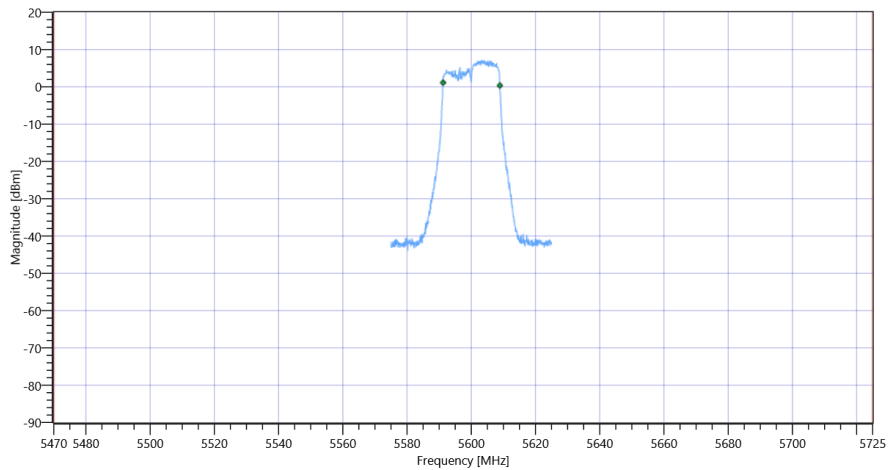
## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

## Plot: Bandwidth within Band



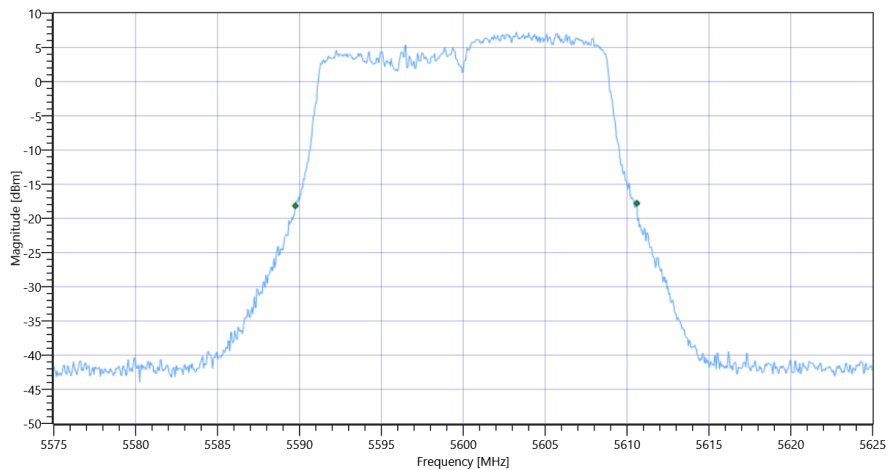


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

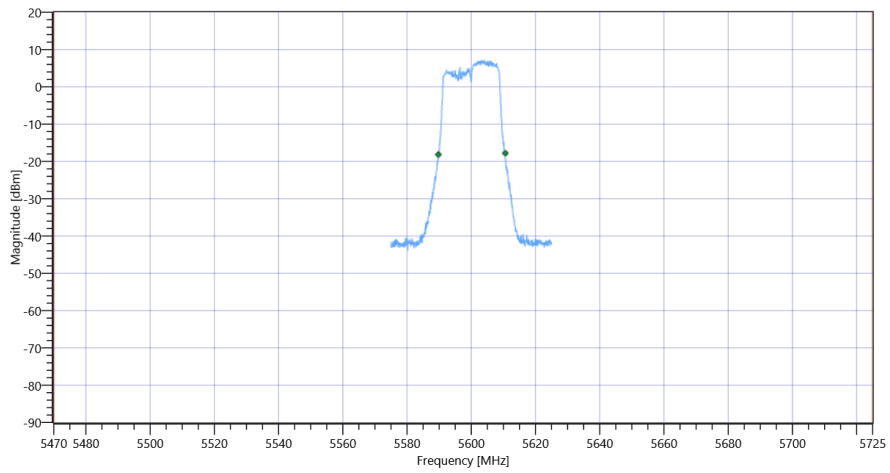
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.85	MHz	INFO
T1 26dB	5470.000000	---	5589.7500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5610.6000	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

## Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 11:57:34
Ambit Temp [°C]   Humidity [rel%]	25.2   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.23	dBm	INFO
Ref. Frequency	---	---	5603.000	MHz	INFO

Evaluation max. Duty Cycle

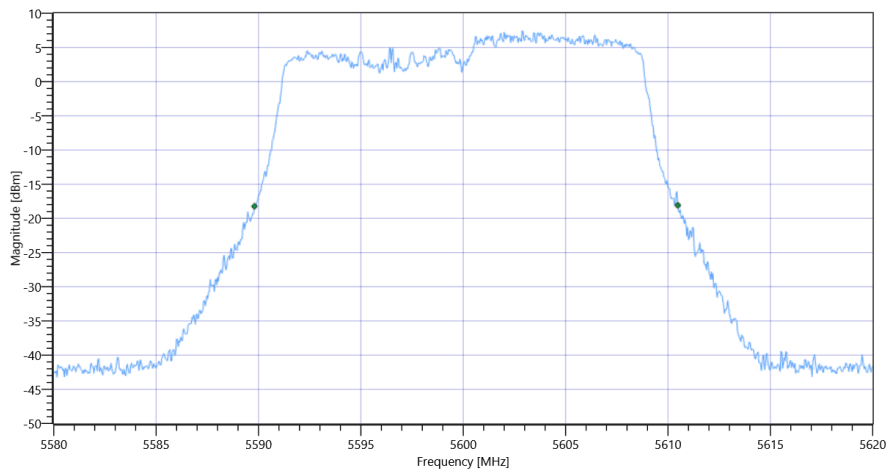
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.68	MHz	INFO
T1 26dB	---	---	5589.8000	MHz	INFO
T2 26dB	---	---	5610.4800	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

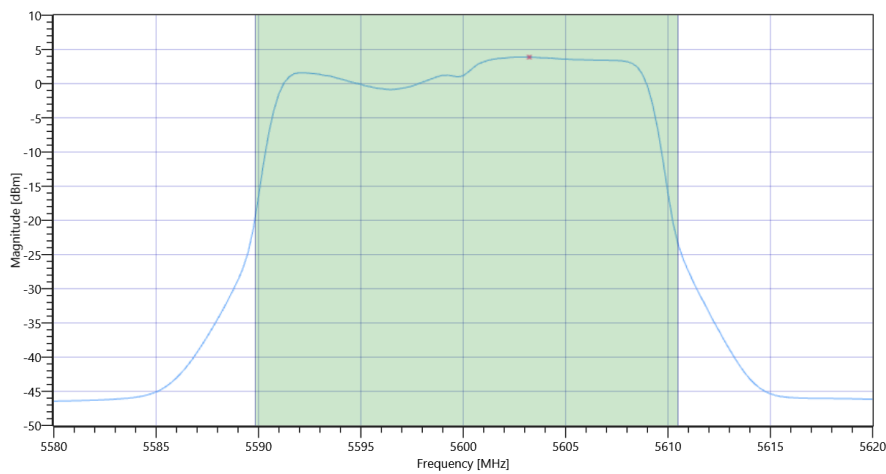
Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.23   5.34   35
Start [MHz]   Stop [MHz]	5580.000   5620.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	14.48	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	14.48	dBm	PASS
Limit: 11 dBm + 10 log 20.68					
Max Output Power DC corrected	---	24.16	14.48	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	3.88	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	3.88	dBm/1MHz	PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 11:56:42
Ambit Temp [°C]   Humidity [rel%]	25.1   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.03	dBm	INFO
Ref. Frequency	---	---	5601.400	MHz	INFO

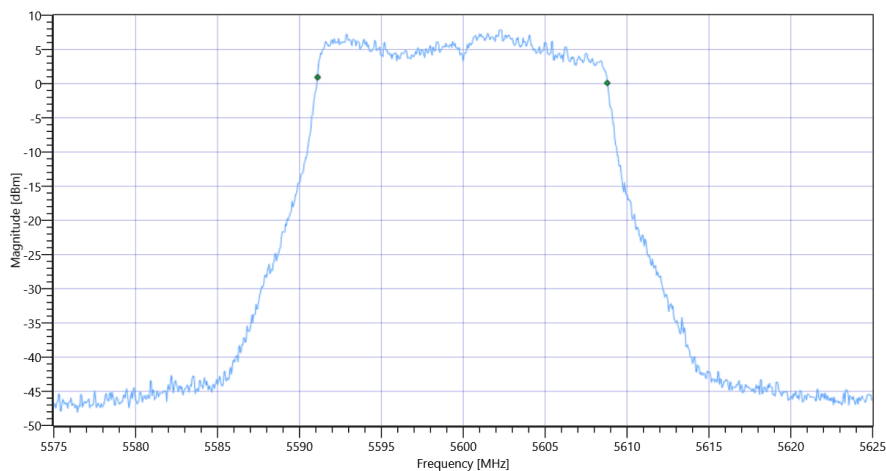
## READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.03   5.34   30
Start [MHz]   Stop [MHz]	5575.000   5625.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

## RESULT

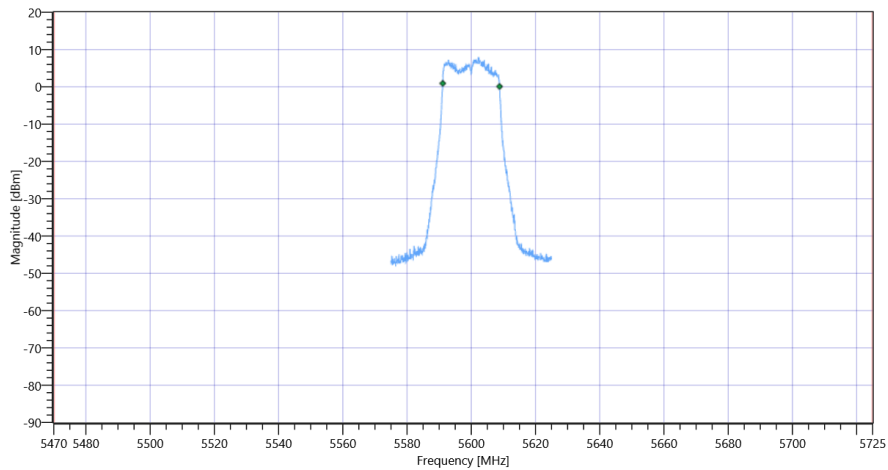
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.682	MHz	INFO
T1 99%	5470.000000	---	5591.1089	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5608.7912	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

## Plot: Bandwidth within Band

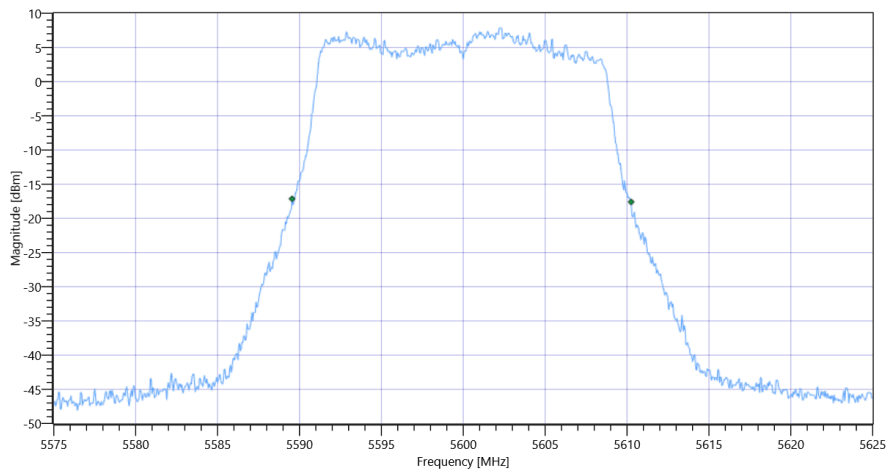


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.7	MHz	INFO
T1 26dB	5470.000000	---	5589.5500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5610.2500	MHz	

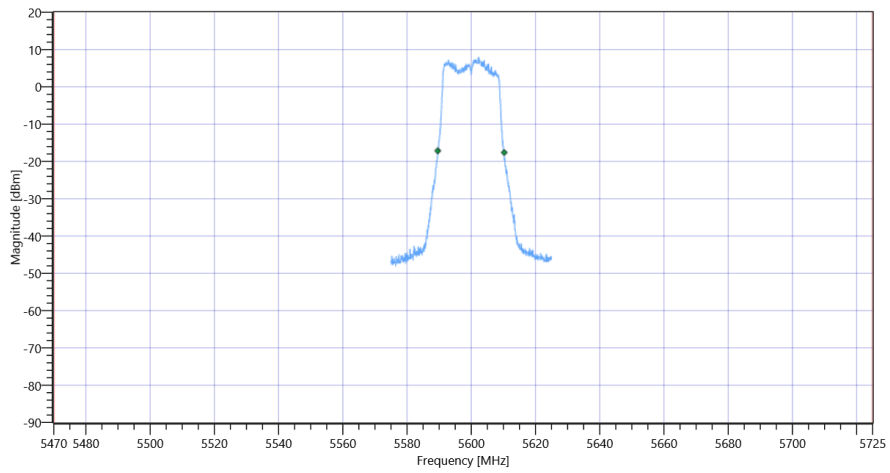
## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

## Plot: Bandwidth within Band





FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 11:55:05
Ambit Temp [°C]   Humidity [rel%]	25.1   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C

Add. Information

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	11.79	dBm	INFO
Ref. Frequency	---	---	5601.000	MHz	INFO

Evaluation max. Duty Cycle

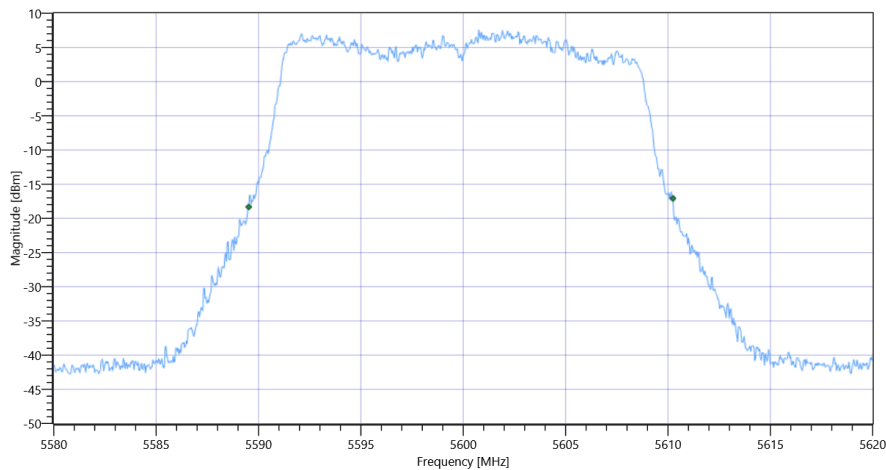
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.72	MHz	INFO
T1 26dB	---	---	5589.5200	MHz	INFO
T2 26dB	---	---	5610.2400	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

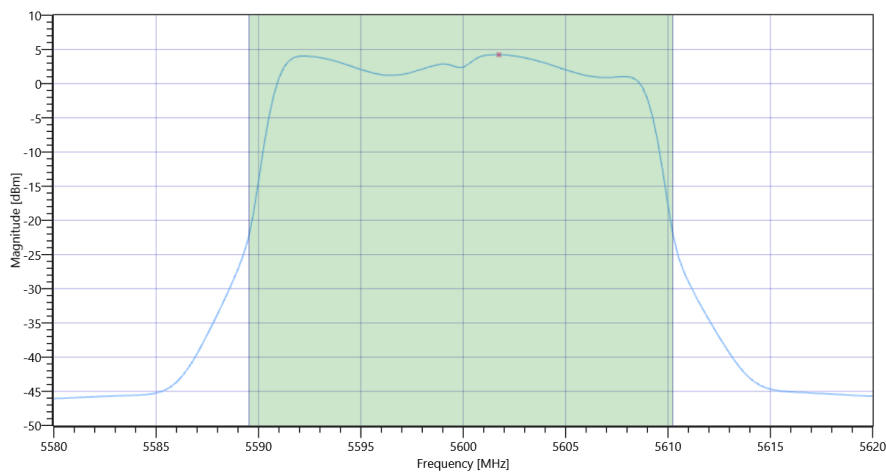
Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.79   5.34   35
Start [MHz]   Stop [MHz]	5580.000   5620.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	14.94	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	14.94	dBm	PASS
Limit: 11 dBm + 10 log 20.72					
Max Output Power DC corrected	---	24.16	14.94	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	4.23	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	4.23	dBm/1MHz	PASS

## FCC 15.247 # MIMO Power PSD Calculator ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:21:56
Ambit Temp [°C]   Humidity [rel%]	25.2   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	
TC Version	0.0.1
My Description	FCC MIMO_Power_PSD_Calculator - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	several
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	None

### Test Equipment

## Test at TX 5720 MHz

### RESULT Power

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ant:1 Max Output Power DC corrected	--	--	15.74	dBm	INFO
Ant:1 BW 26dB	--	--	20.160	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	15.63	dBm	INFO
Ant:2 BW 26dB	--	--	20.640	MHz	INFO
Ant:3 Max Output Power DC corrected	--	--	14.82	dBm	INFO
Ant:3 BW 26dB	--	--	20.640	MHz	INFO
Ant:4 Max Output Power DC corrected	--	--	14.71	dBm	INFO
Ant:4 BW 26dB	--	--	20.320	MHz	INFO
Σ Limit absolute	--	24	21.27	dBm	PASS
Σ Limit: 11 dBm + 10 log 20.16	--	24.04	21.27	dBm	PASS

### RESULT PSD

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ant:1 PSD	--	--	5.27	dBm/1MHz	INFO
Ant:2 PSD	--	--	5.46	dBm/1MHz	INFO
Ant:3 PSD	--	--	4.11	dBm/1MHz	INFO
Ant:4 PSD	--	--	4.25	dBm/1MHz	INFO
Σ	--	11	10.83	dBm/1MHz	PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:21:04
Ambit Temp [°C]   Humidity [rel%]	25.2   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5720 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	11.53	dBm	INFO
Ref. Frequency	---	---	5725.790	MHz	INFO

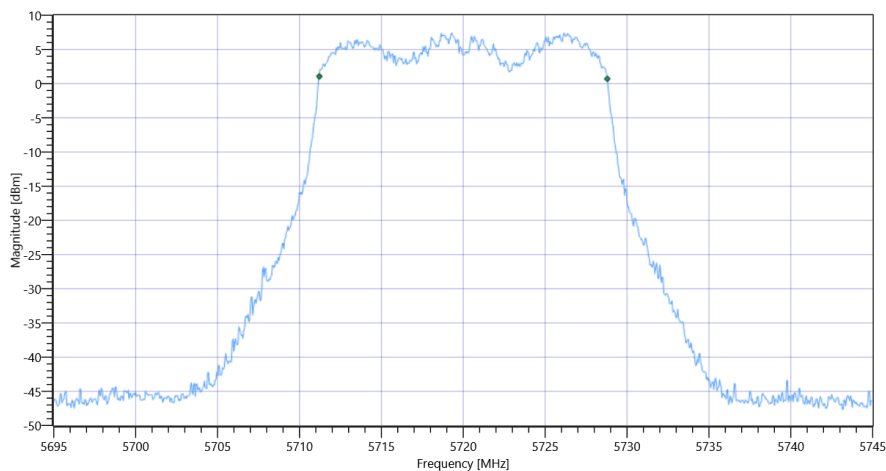
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	19.53   5.29   30
Start [MHz]   Stop [MHz]	5695.000   5745.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.582	MHz	INFO
T1 99%	5470.000000	---	5711.2088	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5728.7912	MHz	

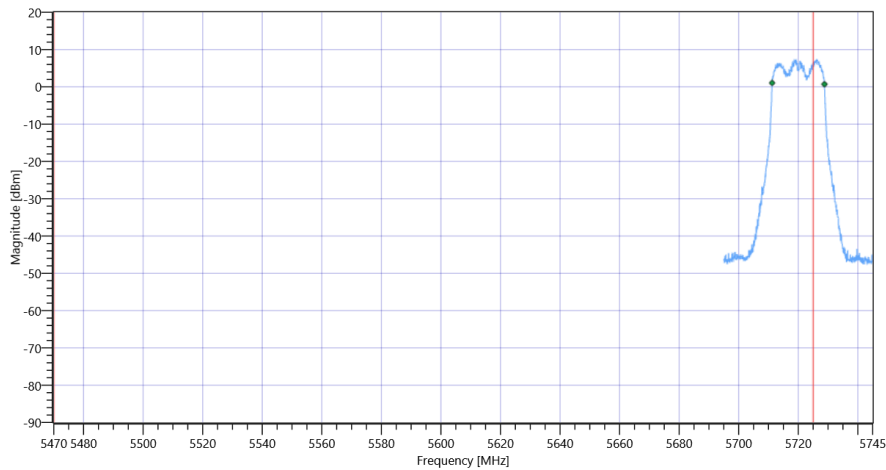
### Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

### Plot: Bandwidth within Band



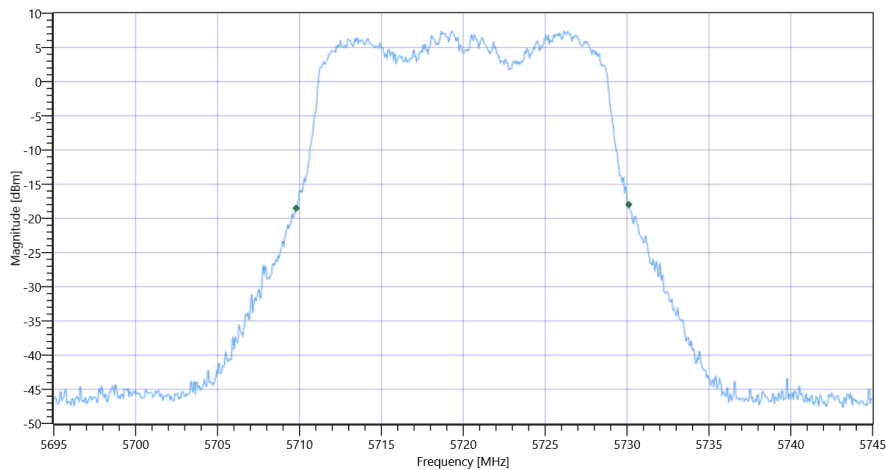


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

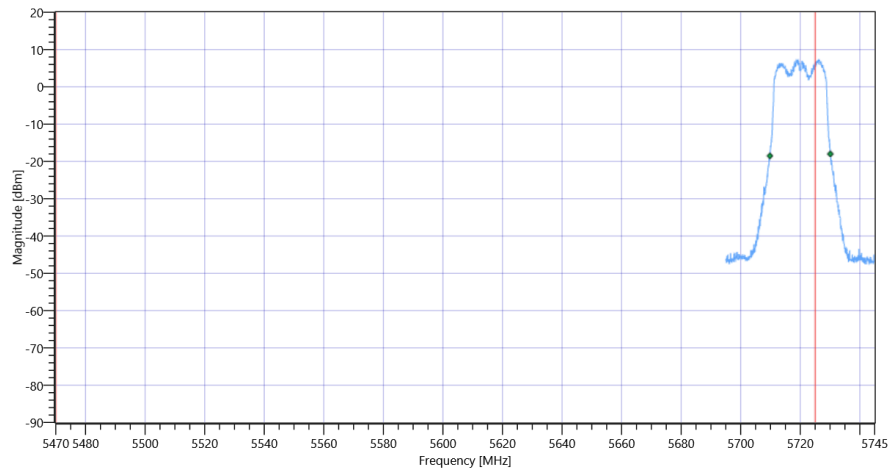
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.3	MHz	INFO
T1 26dB	5470.000000	---	5709.8000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5730.1000	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

## Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:19:28
Ambit Temp [°C]   Humidity [rel%]	25.3   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C

Add. Information

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5720 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.65	dBm	INFO
Ref. Frequency	---	---	5719.400	MHz	INFO

Evaluation max. Duty Cycle

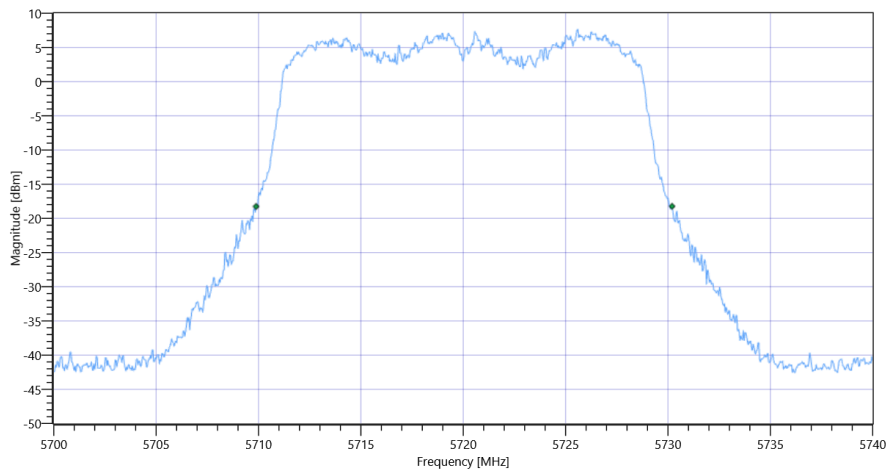
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.32	MHz	INFO
T1 26dB	---	---	5709.8800	MHz	INFO
T2 26dB	---	---	5730.2000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

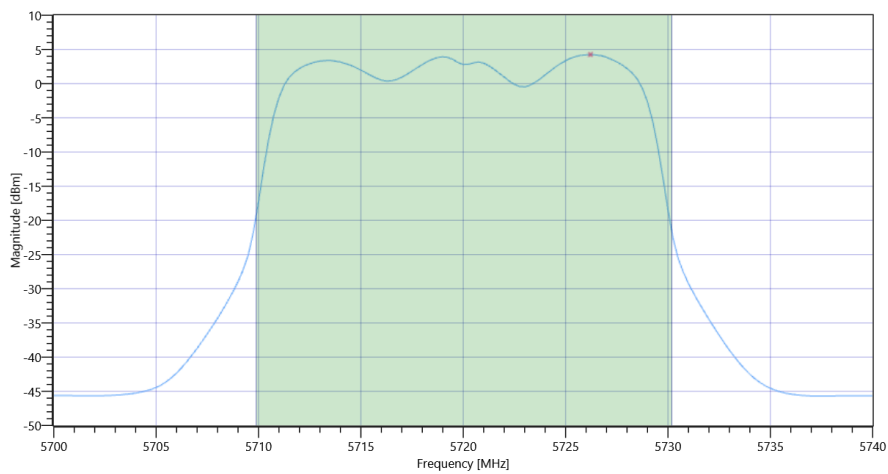
Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.65   5.29   35
Start [MHz]   Stop [MHz]	5700.000   5740.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	14.71	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	14.71	dBm	PASS
Limit: 11 dBm + 10 log 20.32					
Max Output Power DC corrected	---	24.08	14.71	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	4.25	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	4.25	dBm/1MHz	PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:18:36
Ambit Temp [°C]   Humidity [rel%]	25.3   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5720 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.90	dBm	INFO
Ref. Frequency	---	---	5715.800	MHz	INFO

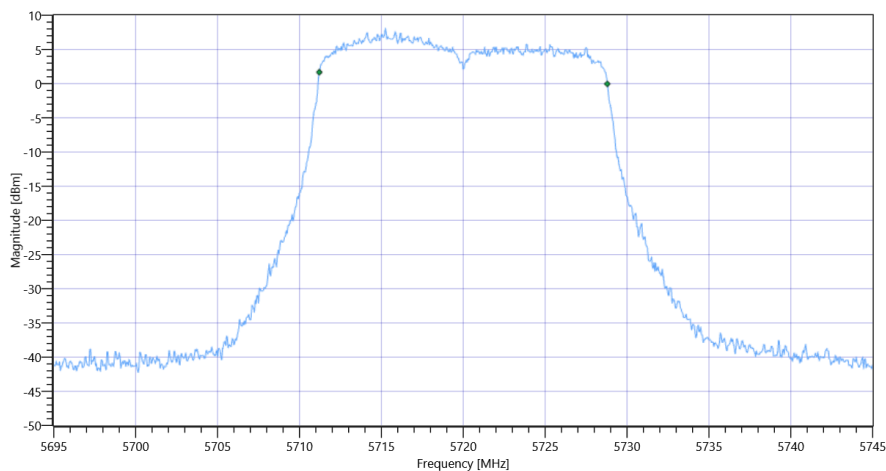
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.90   5.29   35
Start [MHz]   Stop [MHz]	5695.000   5745.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

### RESULT

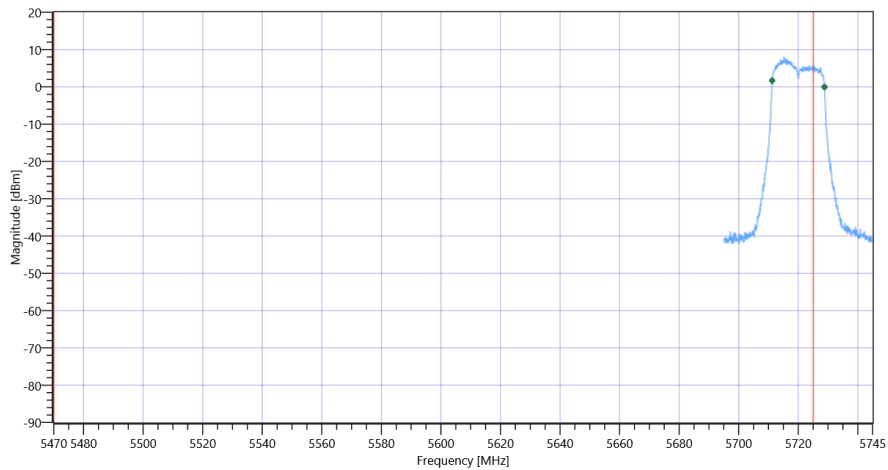
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.582	MHz	INFO
T1 99%	5470.000000	---	5711.2088	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5728.7912	MHz	

### Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

### Plot: Bandwidth within Band

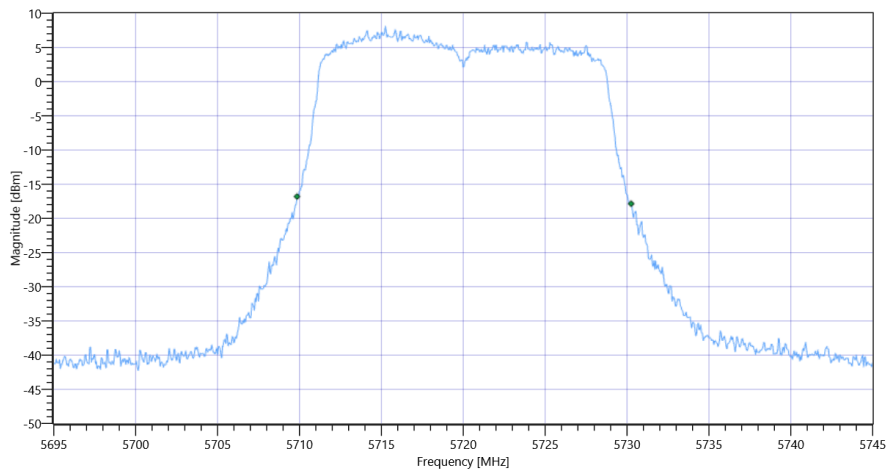


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.4	MHz	INFO
T1 26dB	5470.000000	---	5709.8500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5730.2500	MHz	

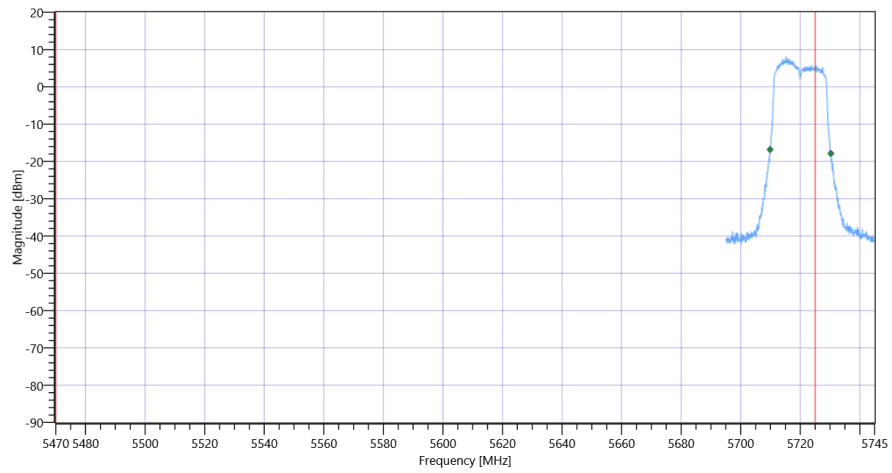
## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

## Plot: Bandwidth within Band





FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:17:00
Ambit Temp [°C]   Humidity [rel%]	25.3   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5720 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	--	--	13.55	dBm	INFO
Ref. Frequency	--	--	5715.000	MHz	INFO

Evaluation max. Duty Cycle

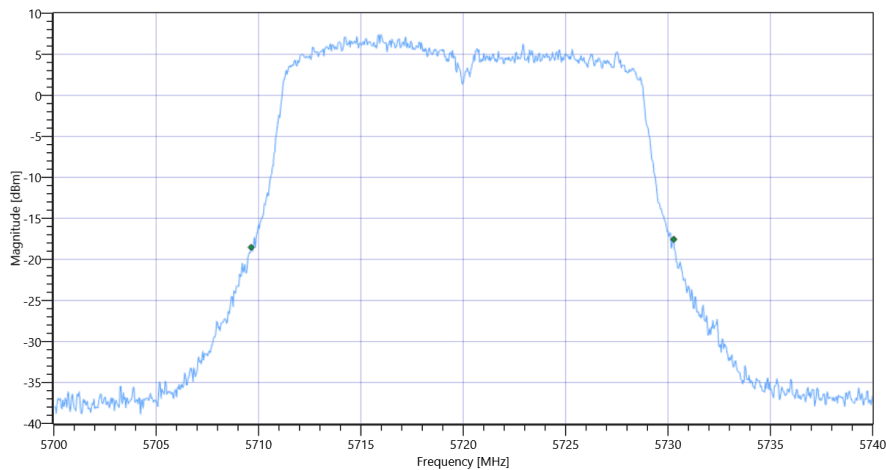
Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	--	--	0	dB	DC > 98% defined

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.64	MHz	INFO
T1 26dB	--	--	5709.6400	MHz	INFO
T2 26dB	--	--	5730.2800	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

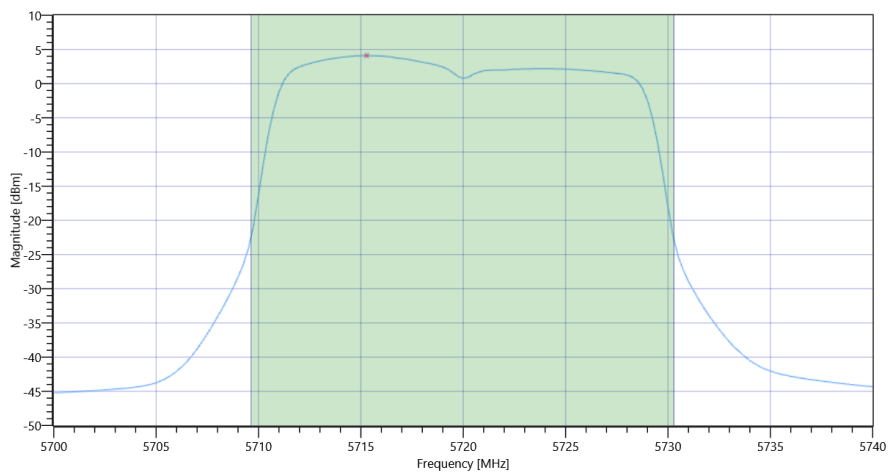
Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	25.55   5.29   35
Start [MHz]   Stop [MHz]	5700.000   5740.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	14.82	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	14.82	dBm	PASS
Limit: 11 dBm + 10 log 20.64					
Max Output Power DC corrected	--	24.15	14.82	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	4.11	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	4.11	dBm/1MHz	PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:16:08
Ambit Temp [°C]   Humidity [rel%]	25.2   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5720 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.43	dBm	INFO
Ref. Frequency	---	---	5712.210	MHz	INFO

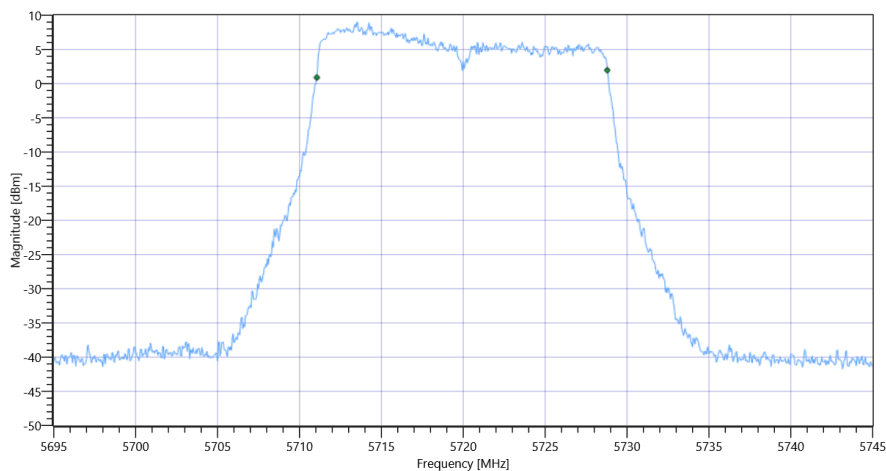
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	21.43   5.29   35
Start [MHz]   Stop [MHz]	5695.000   5745.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

### RESULT

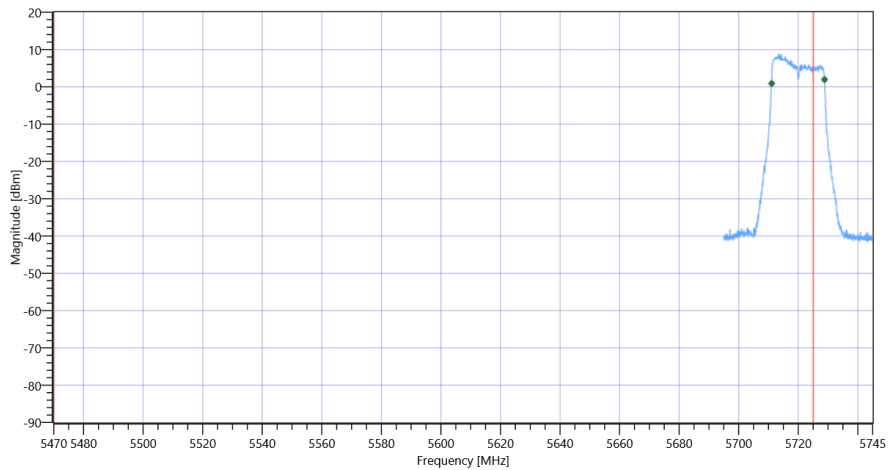
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.732	MHz	INFO
T1 99%	5470.000000	---	5711.0589	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5728.7912	MHz	

### Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

### Plot: Bandwidth within Band

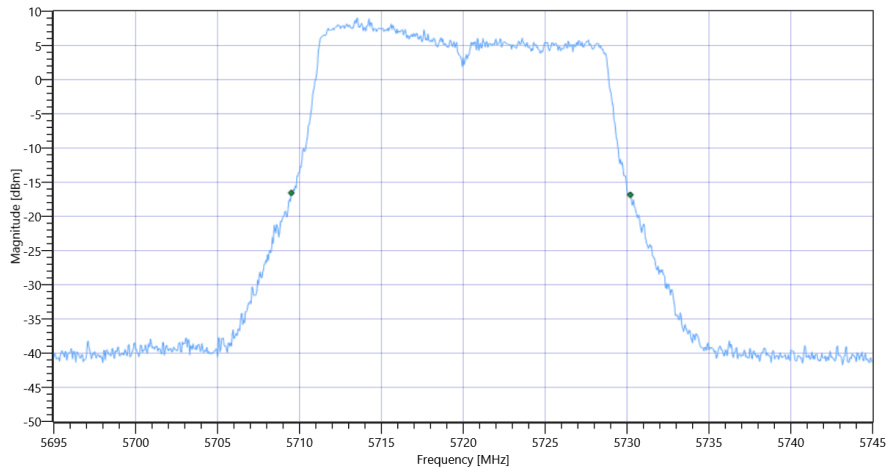


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

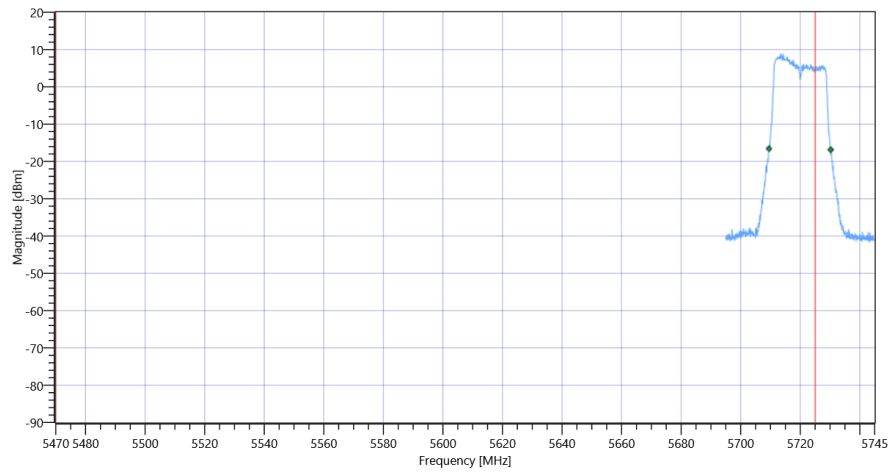
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.7	MHz	INFO
T1 26dB	5470.000000	---	5709.5000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5730.2000	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

## Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C



## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:14:32
Ambit Temp [°C]   Humidity [rel%]	25.2   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C

Add. Information

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5720 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.33	dBm	INFO
Ref. Frequency	---	---	5712.610	MHz	INFO

Evaluation max. Duty Cycle

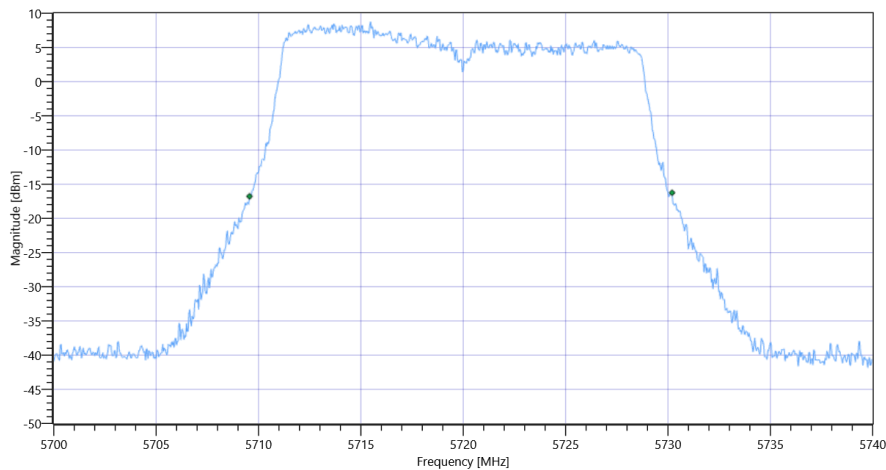
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.64	MHz	INFO
T1 26dB	---	---	5709.5600	MHz	INFO
T2 26dB	---	---	5730.2000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

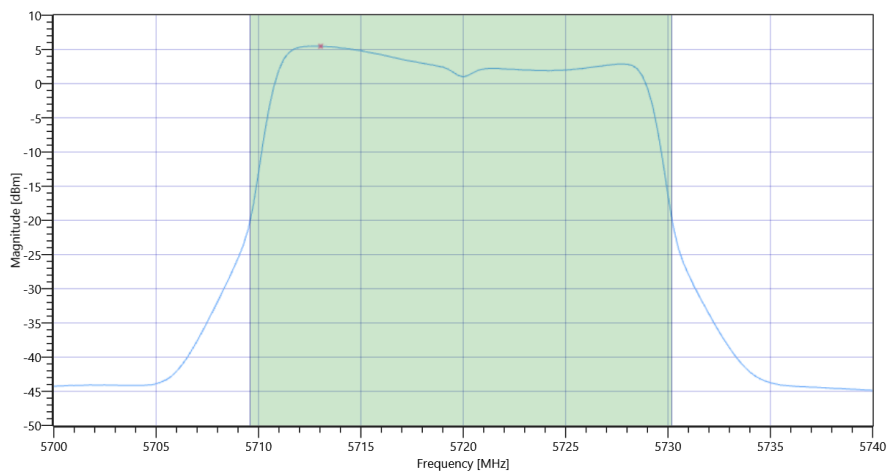
Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.33   5.29   35
Start [MHz]   Stop [MHz]	5700.000   5740.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	15.63	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	15.63	dBm	PASS
Limit: 11 dBm + 10 log 20.64					
Max Output Power DC corrected	---	24.15	15.63	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	5.46	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	5.46	dBm/1MHz	PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:13:40
Ambit Temp [°C]   Humidity [rel%]	25.3   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5720 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.11	dBm	INFO
Ref. Frequency	---	---	5722.200	MHz	INFO

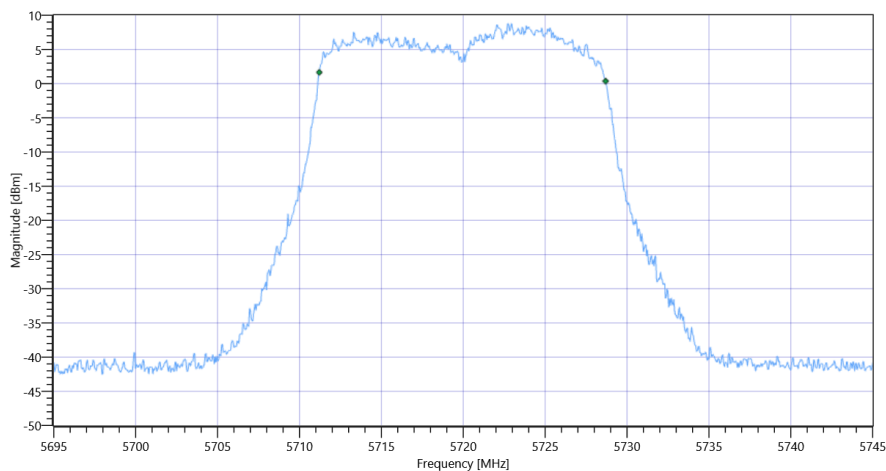
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	21.11   5.29   35
Start [MHz]   Stop [MHz]	5695.000   5745.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

### RESULT

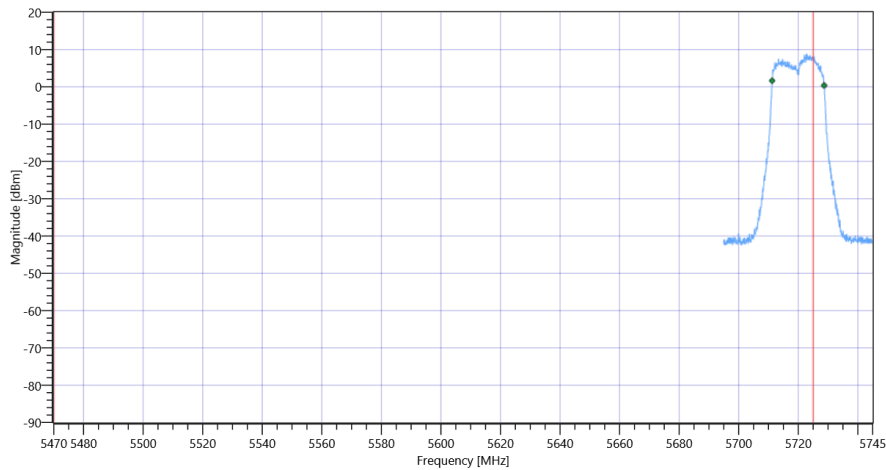
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.483	MHz	INFO
T1 99%	5470.000000	---	5711.2088	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5728.6913	MHz	

### Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 99PCT

### Plot: Bandwidth within Band

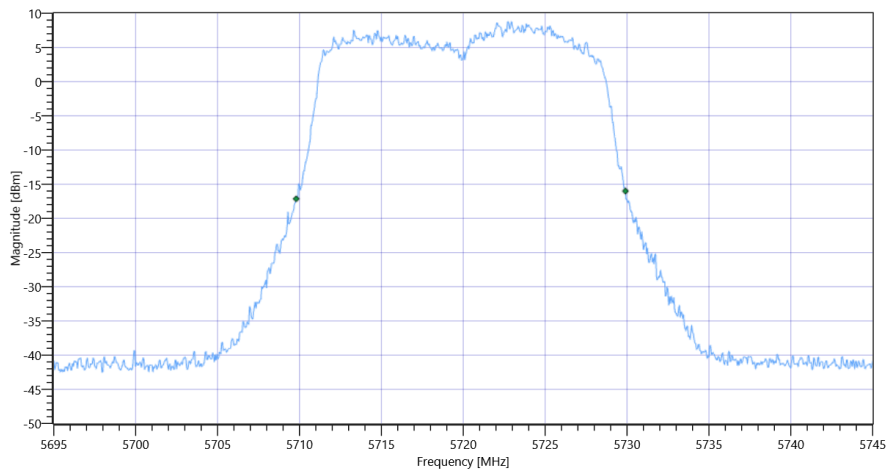


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## RESULT

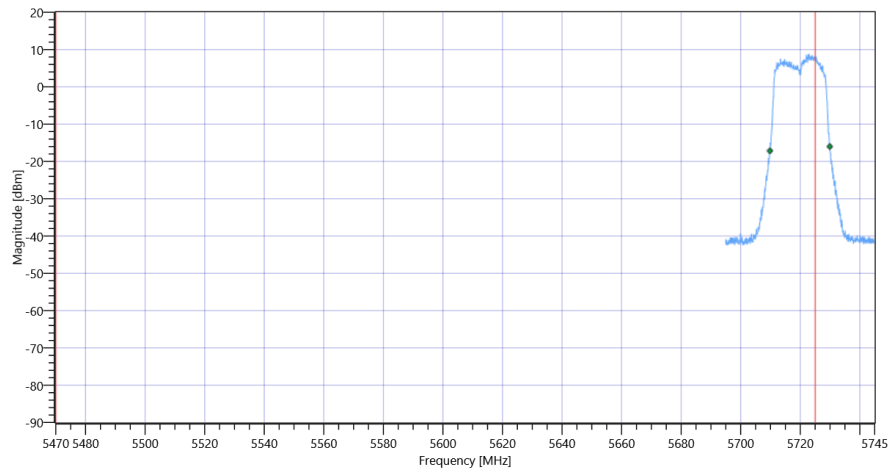
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.1	MHz	INFO
T1 26dB	5470.000000	---	5709.8000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5729.9000	MHz	

## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C 26dB

## Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

TC Start	13.12.2022 12:12:03
Ambit Temp [°C]   Humidity [rel%]	25.3   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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



## Test at TX 5720 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	--	--	13.57	dBm	INFO
Ref. Frequency	--	--	5723.600	MHz	INFO

Evaluation max. Duty Cycle

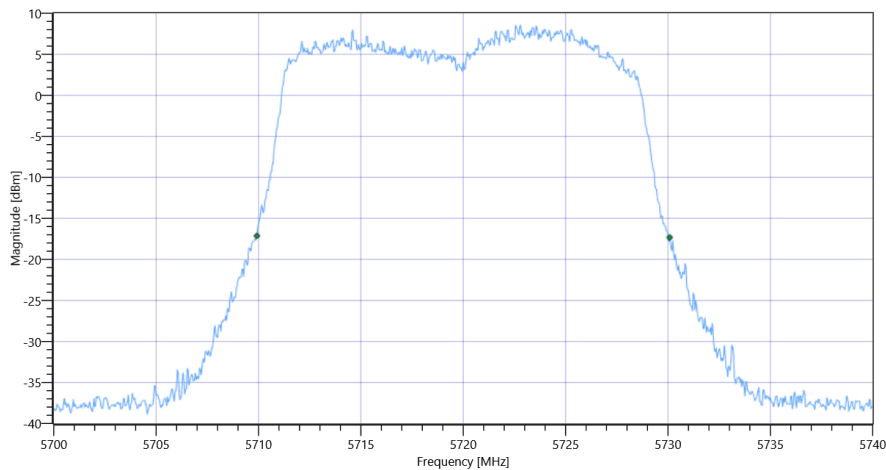
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	--	--	0	dB	DC > 98% defined

Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.16	MHz	INFO
T1 26dB	--	--	5709.9200	MHz	INFO
T2 26dB	--	--	5730.0800	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

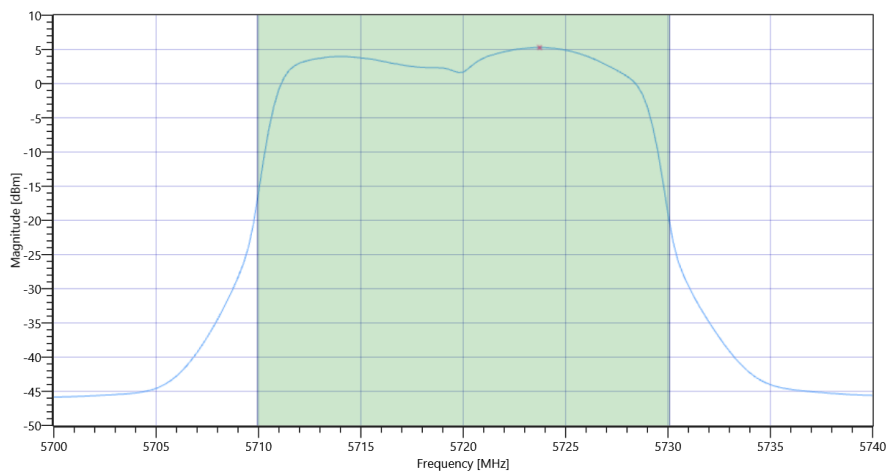
Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	25.57   5.29   35
Start [MHz]   Stop [MHz]	5700.000   5740.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	15.74	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	15.74	dBm	PASS
Limit: 11 dBm + 10 log 20.16					
Max Output Power DC corrected	---	24.04	15.74	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	5.27	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	5.27	dBm/1MHz	PASS

## FCC 15.247 # MIMO Power PSD Calculator ~ WLAN5Gx n-HT20 mode U-NII-3

### Test References

TC Start	13.12.2022 12:41:46
Ambit Temp [°C]   Humidity [rel%]	25.3   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	
TC Version	0.0.1
My Description	FCC MIMO_Power_PSD_Calculator - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	several
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	None

### Test Equipment

## Test at TX 5745 MHz

### RESULT Power

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ant:1 Max Output Power DC corrected	--	--	22.48	dBm	INFO
Ant:1 BW 26dB	--	--	37.880	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	22.78	dBm	INFO
Ant:2 BW 26dB	--	--	20.880	MHz	INFO
Ant:3 Max Output Power DC corrected	--	--	23.52	dBm	INFO
Ant:3 BW 26dB	--	--	26.520	MHz	INFO
Ant:4 Max Output Power DC corrected	--	--	22.5	dBm	INFO
Ant:4 BW 26dB	--	--	23.480	MHz	INFO
Σ Limit absolute	--	30	28.86	dBm	PASS
Σ Limit: 11 dBm + 10 log 20.88	--	24.2	28.86	dBm	na

### RESULT PSD

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ant:1 PSD	--	--	8.53	dBm/0.5MHz	INFO
Ant:2 PSD	--	--	9.64	dBm/0.5MHz	INFO
Ant:3 PSD	--	--	9.81	dBm/0.5MHz	INFO
Ant:4 PSD	--	--	9.06	dBm/0.5MHz	INFO
Σ	--	30	15.31	dBm/0.5MHz	PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

### Test References

TC Start	13.12.2022 12:40:58
Ambit Temp [°C]   Humidity [rel%]	25.3   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	KDB789033 D02, C.2.
TC Version	0.0.1
My Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5745 MHz

RESULT: Reference Power cond.

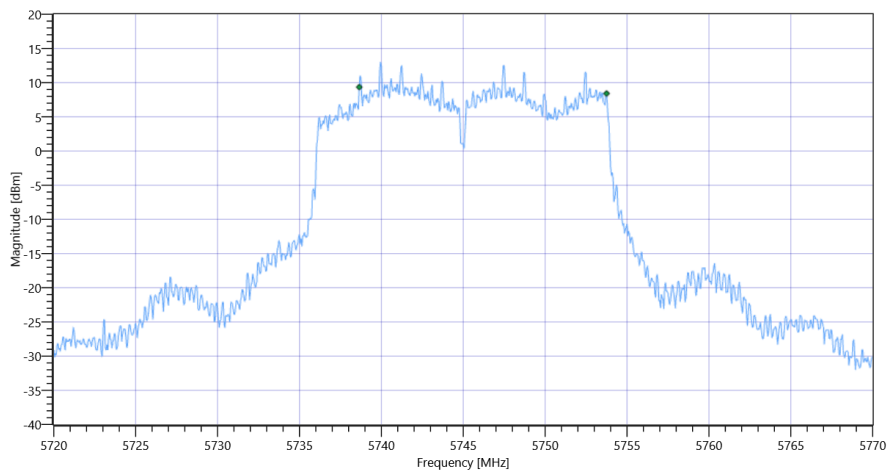
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	--	--	20.08	dBm	INFO
Ref. Frequency	--	--	5741.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.08   5.42   45
Start [MHz]   Stop [MHz]	5720.000   5770.000
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

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth (6dB)	0.500	--	15.1	MHz	PASS



FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-3

### Test References

TC Start	13.12.2022 12:40:05
Ambit Temp [°C]   Humidity [rel%]	25.3   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5745 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	19.35	dBm	INFO
Ref. Frequency	---	---	5739.610	MHz	INFO

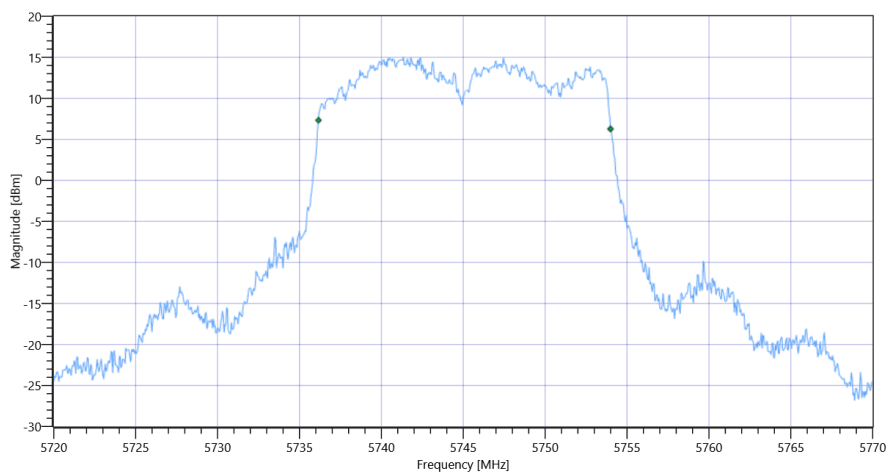
## READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.35   5.42   40
Start [MHz]   Stop [MHz]	5720.000   5770.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

## RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.832	MHz	INFO
T1 99%	5725.000000	---	5736.1588	MHz	PASS
T2 99%	---	5850.000000	5753.9910	MHz	PASS

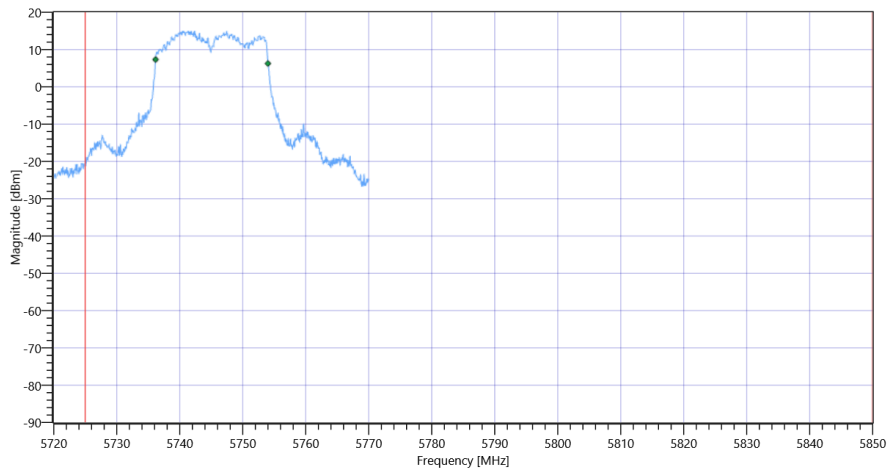
## Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-3 99PCT

## Plot: Bandwidth within Band



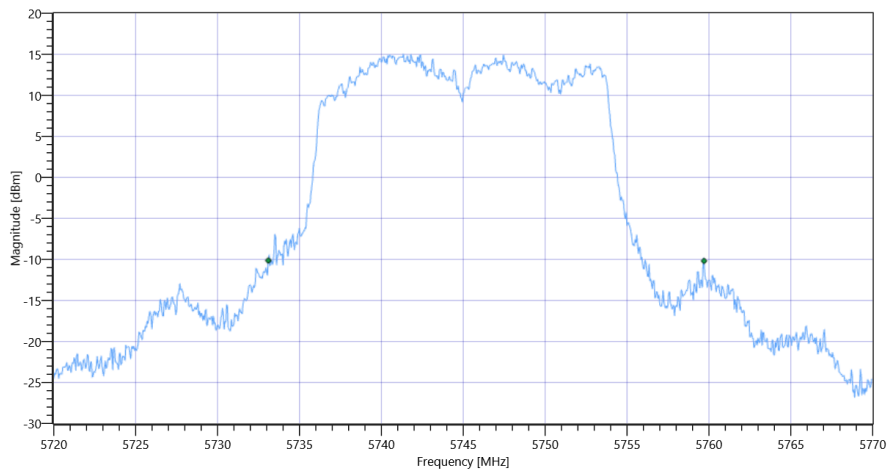


FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-3

**RESULT**

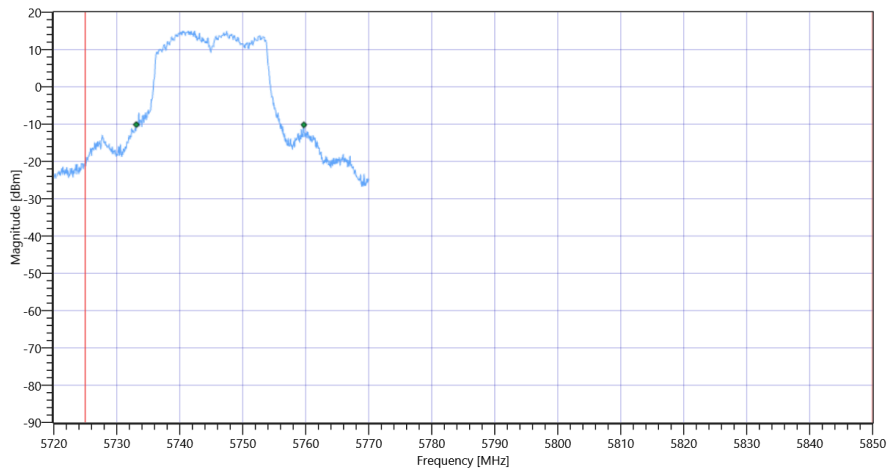
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	26.6	MHz	INFO
T1 26dB	5725.000000	---	5733.1000	MHz	PASS
T2 26dB	---	5850.000000	5759.7000	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-3 26dB

Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-3

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

### Test References

TC Start	13.12.2022 12:37:26
Ambit Temp [°C]   Humidity [rel%]	25.3   20
System Version	3.3.3.0
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F, E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5745 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	19.88	dBm	INFO
Ref. Frequency	---	---	5739.610	MHz	INFO

Evaluation max. Duty Cycle

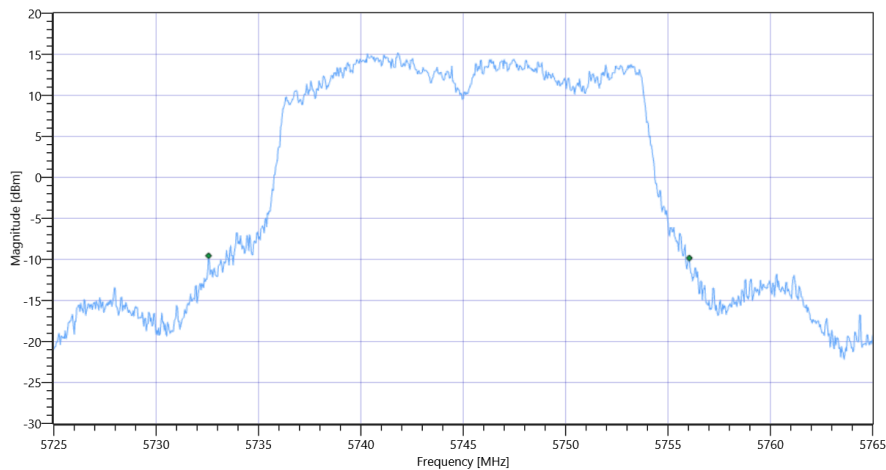
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	23.48	MHz	INFO
T1 26dB	---	---	5732.5600	MHz	INFO
T2 26dB	---	---	5756.0400	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3\_BW

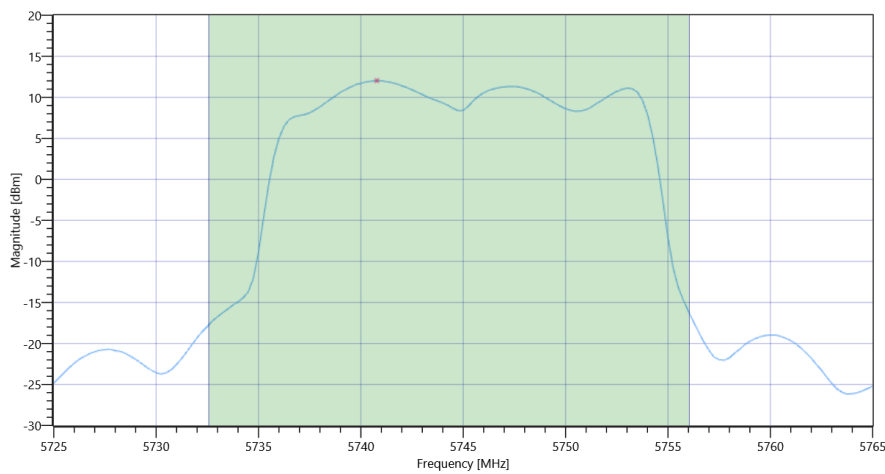
Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.88   5.42   45
Start [MHz]   Stop [MHz]	5725.000   5765.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	22.5	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	22.5	dBm	PASS
Limit: 11 dBm + 10 log 23.48					
Max Output Power DC corrected	---	24.71	22.5	dBm	na



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD

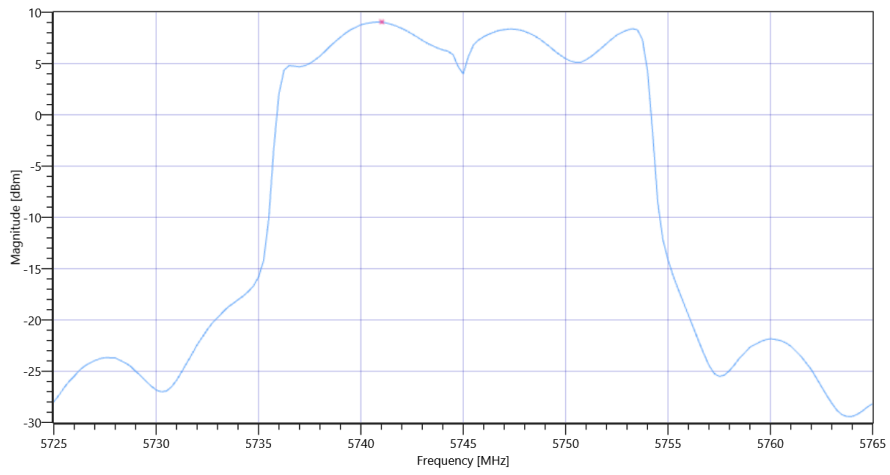
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.88   5.42   45
Start [MHz]   Stop [MHz]	5725.000   5765.000
RBW [MHz]   VBW [MHz]	0.500000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	9.06	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	9.06	dBm/0.5MHz	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

### Test References

TC Start	13.12.2022 12:36:39
Ambit Temp [°C]   Humidity [rel%]	25.3   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	KDB789033 D02, C.2.
TC Version	0.0.1
My Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 5745 MHz

RESULT: Reference Power cond.

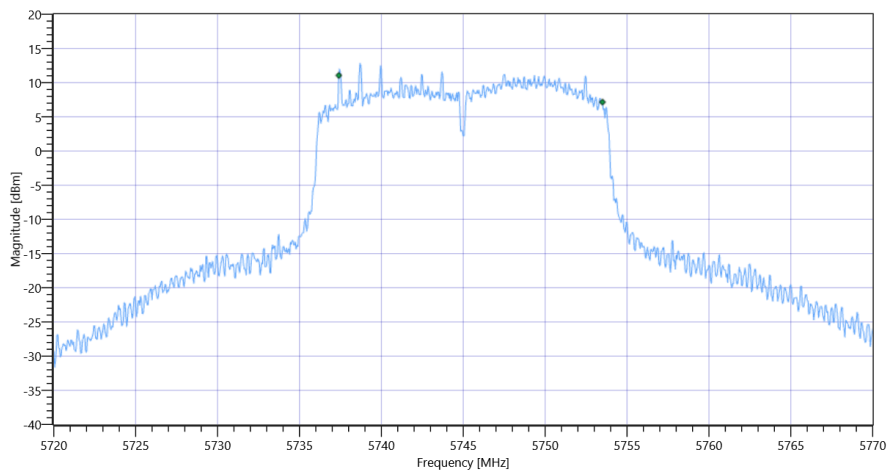
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	--	--	20.91	dBm	INFO
Ref. Frequency	--	--	5748.600	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.91   5.42   45
Start [MHz]   Stop [MHz]	5720.000   5770.000
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

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth (6dB)	0.500	--	16.1	MHz	PASS



FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3



## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-3

### Test References

TC Start	13.12.2022 12:35:46
Ambit Temp [°C]   Humidity [rel%]	25.3   20
System Version	3.3.3.0
Test Specification	FCC 15.407, ISED RSS247 -
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

### EUT Common Settings WLAN5Gx

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

### Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	-10
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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