

## Test at TX 5825 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	21.10	dBm	INFO
Ref. Frequency	---	---	5819.010	MHz	INFO

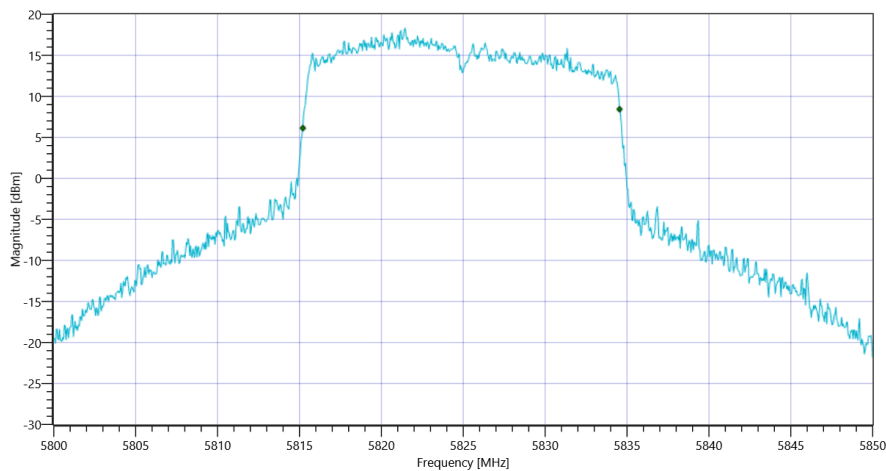
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	29.10   17.84   30
Start [MHz]   Stop [MHz]	5800.000   5850.000
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

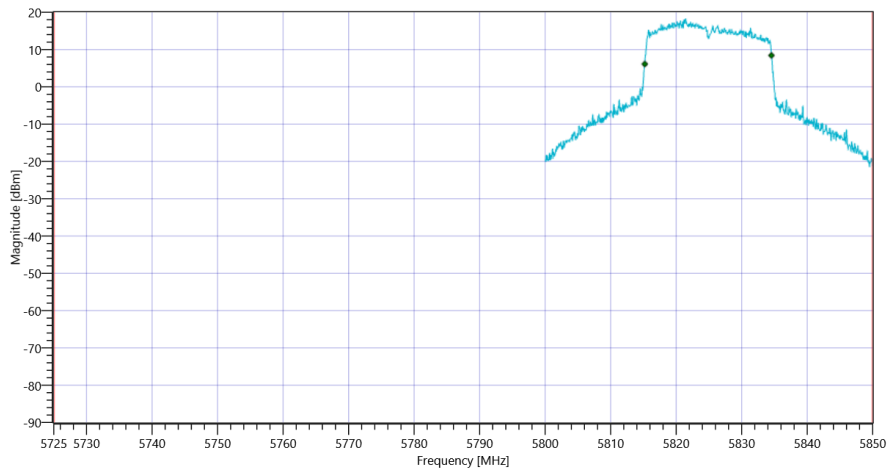
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	19.331	MHz	INFO
T1 99%	5725.000000	---	5815.2098	MHz	PASS
T2 99%	---	5850.000000	5834.5405	MHz	PASS

### Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-3 99PCT

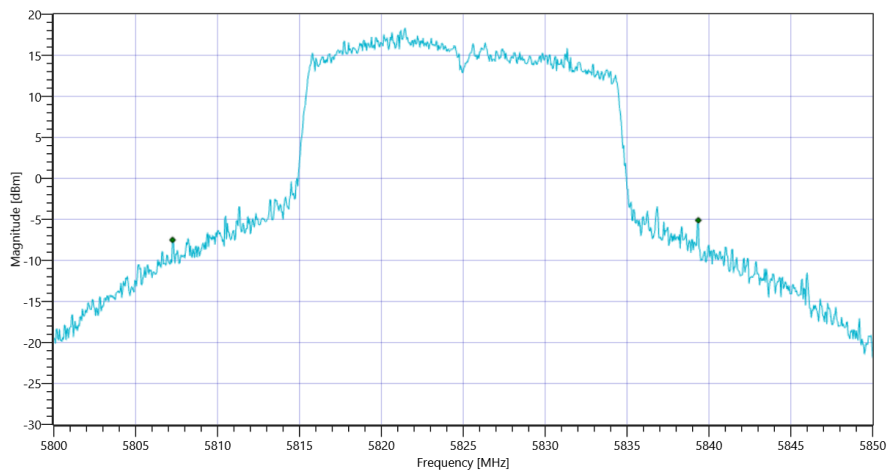
### Plot: Bandwidth within Band



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-3

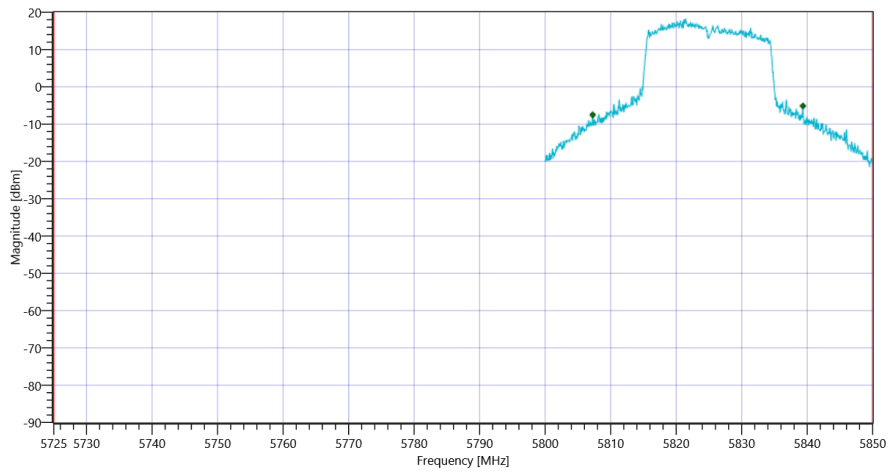
RESULT						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Bandwidth 20dB	---	---	32.1	MHz	INFO	
T1 26dB	5725.000000	---	5807.2500	MHz	PASS	
T2 26dB	---	5850.000000	5839.3500	MHz	PASS	

Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-3 26dB

Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-3

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

Test References	
TC Start	30.03.2022 06:15:20
Ambit Temp [°C]   Humidity [rel%]	25.4   26
System Version	3.0.5.9
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE20 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-1
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5180 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	18.84	dBm	INFO
Ref. Frequency	---	---	5177.800	MHz	INFO

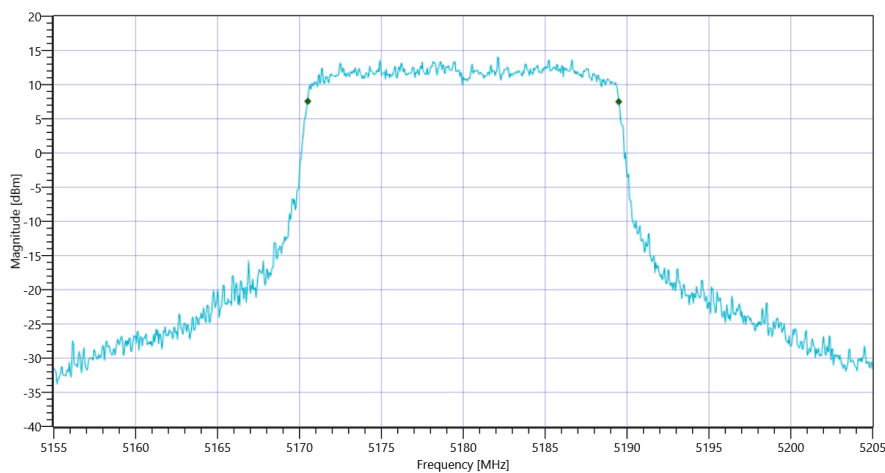
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	26.84   17.09   25
Start [MHz]   Stop [MHz]	5155.000   5205.000
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

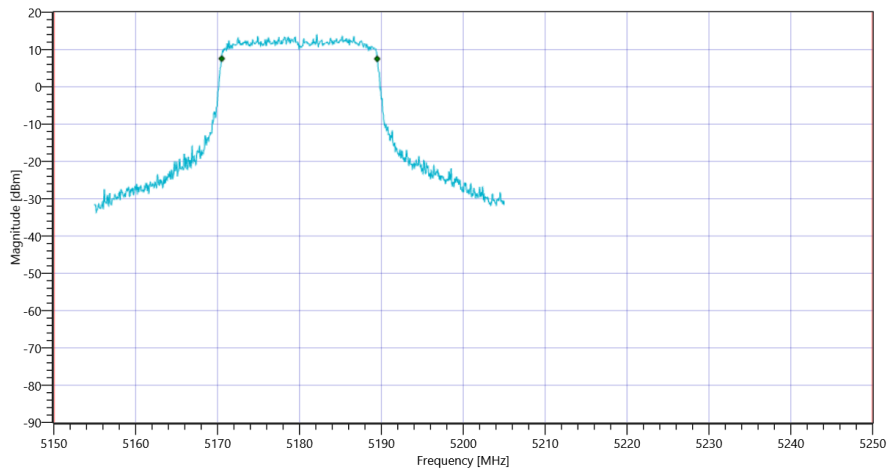
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.981	MHz	INFO
T1 99%	5150.000000	---	5170.5095	MHz	PASS
T2 99%	---	5250.000000	5189.4905	MHz	PASS

### Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1 99PCT

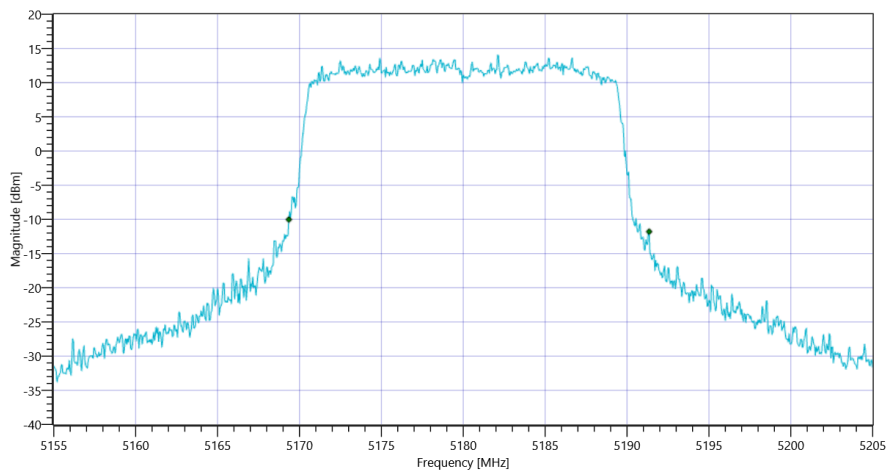
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

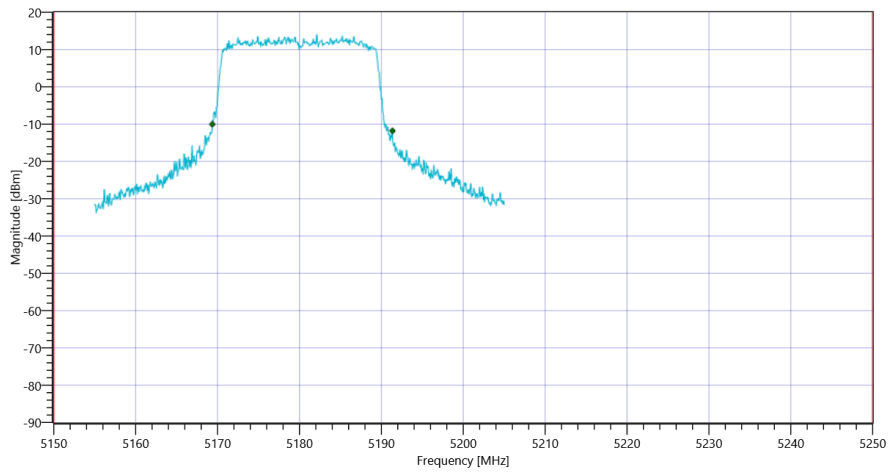
RESULT						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Bandwidth 20dB	---	---	22	MHz	INFO	
T1 26dB	5150.000000	---	5169.3500	MHz	PASS	
T2 26dB	---	5250.000000	5191.3500	MHz	PASS	

Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1 26dB

Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

Test References	
TC Start	30.03.2022 06:11:37
Ambit Temp [°C]   Humidity [rel%]	25.4   26
System Version	3.0.5.9
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE20 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-1
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5180 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	16.43	dBm	INFO
Ref. Frequency	---	---	5182.400	MHz	INFO

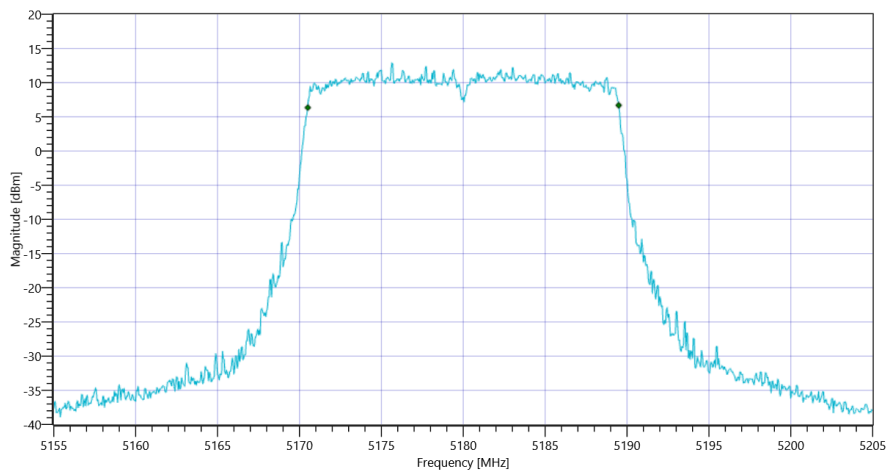
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.43   17.09   25
Start [MHz]   Stop [MHz]	5155.000   5205.000
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

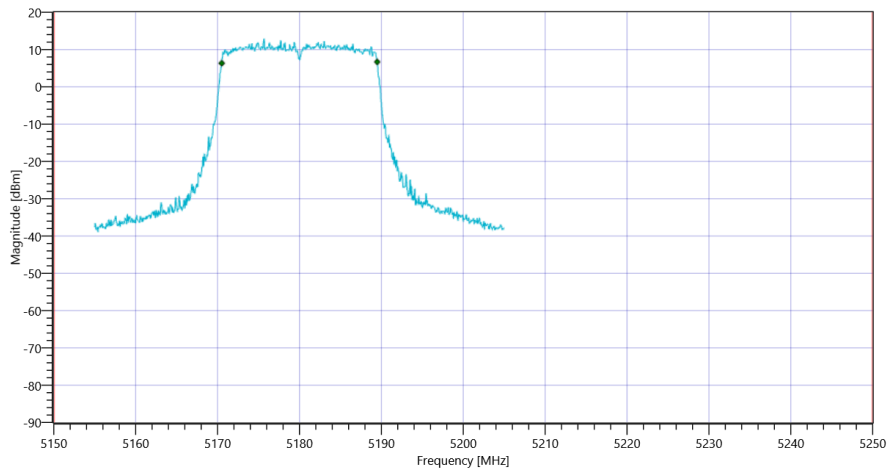
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.981	MHz	INFO
T1 99%	5150.000000	---	5170.5095	MHz	PASS
T2 99%	---	5250.000000	5189.4905	MHz	PASS

### Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1 99PCT

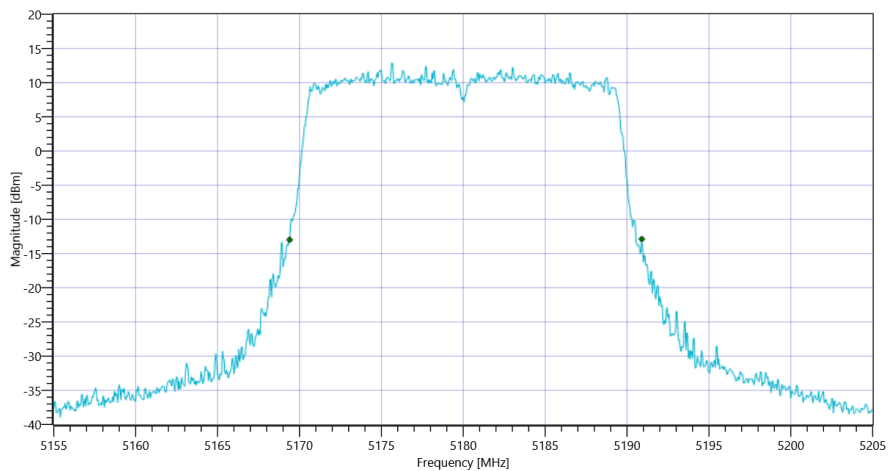
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

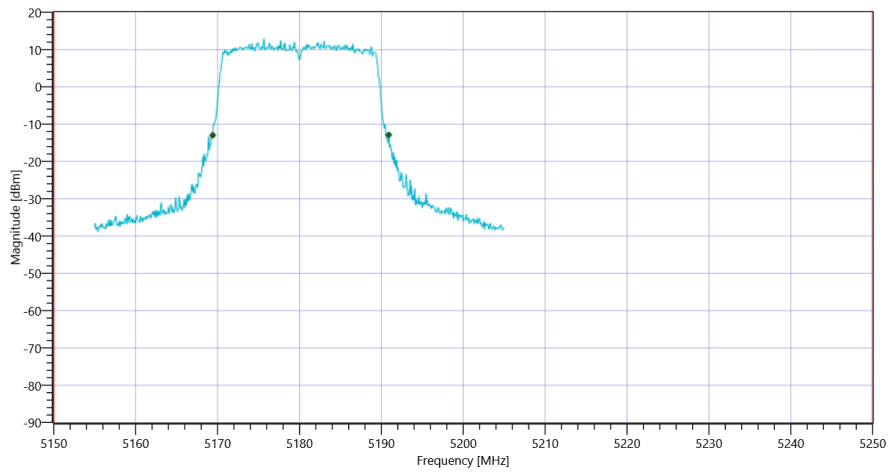
RESULT						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Bandwidth 20dB	---	---	21.5	MHz	INFO	
T1 26dB	5150.000000	---	5169.4000	MHz	PASS	
T2 26dB	---	5250.000000	5190.9000	MHz	PASS	

Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1 26dB

Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

Test References	
TC Start	30.03.2022 06:07:55
Ambit Temp [°C]   Humidity [rel%]	25.4   26
System Version	3.0.5.9
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE20 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-1
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5180 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.25	dBm	INFO
Ref. Frequency	---	---	5188.390	MHz	INFO

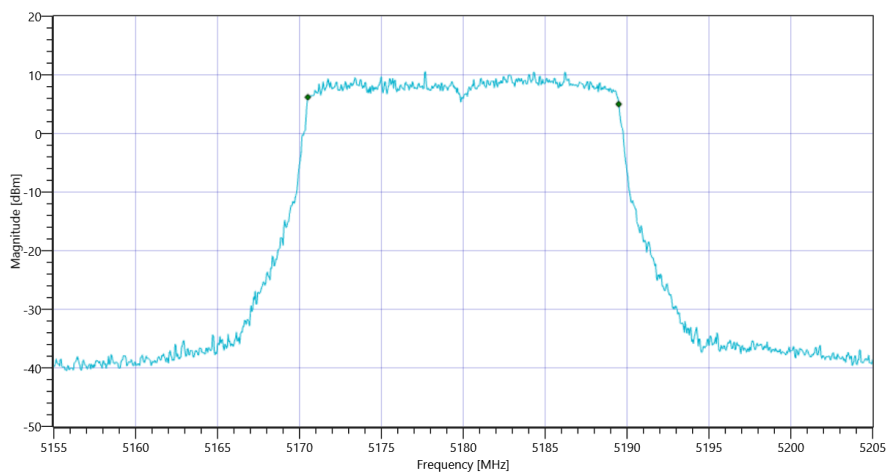
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	22.25   17.09   25
Start [MHz]   Stop [MHz]	5155.000   5205.000
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

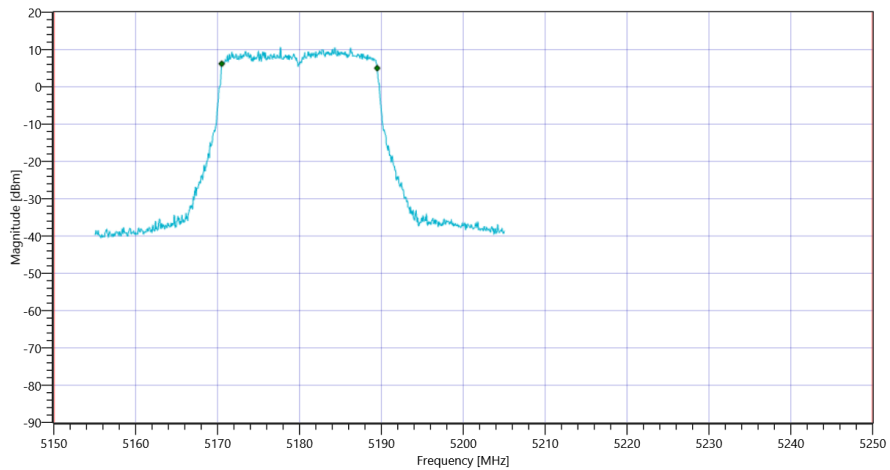
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.981	MHz	INFO
T1 99%	5150.000000	---	5170.5095	MHz	PASS
T2 99%	---	5250.000000	5189.4905	MHz	PASS

### Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1 99PCT

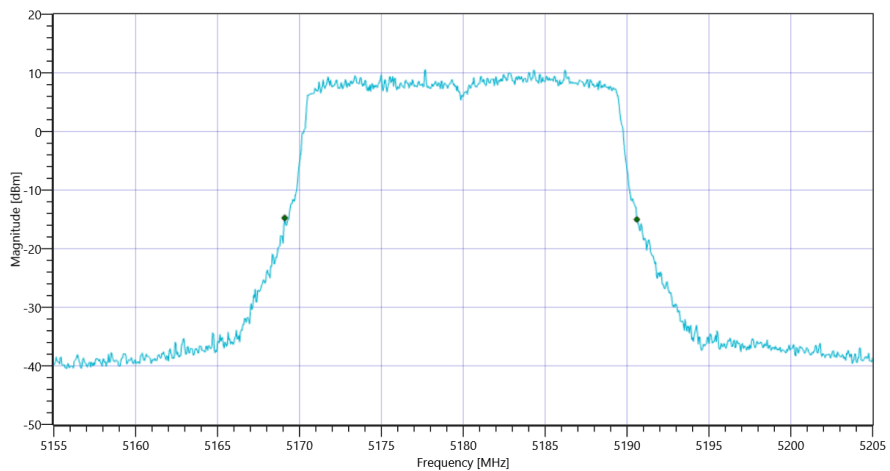
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

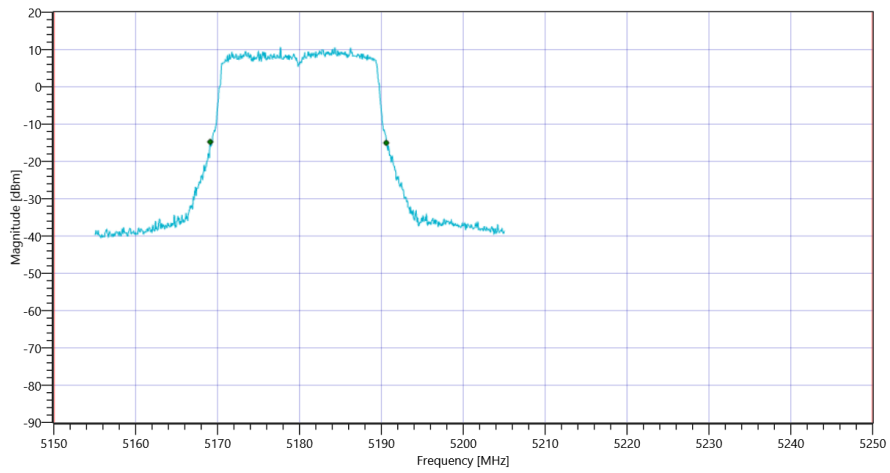
RESULT						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Bandwidth 20dB	---	---	21.5	MHz	INFO	
T1 26dB	5150.000000	---	5169.1000	MHz	PASS	
T2 26dB	---	5250.000000	5190.6000	MHz	PASS	

Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1 26dB

Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

Test References	
TC Start	30.03.2022 06:04:12
Ambit Temp [°C]   Humidity [rel%]	25.4   26
System Version	3.0.5.9
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ax-HE20 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-1
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5180 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	19.28	dBm	INFO
Ref. Frequency	---	---	5174.010	MHz	INFO

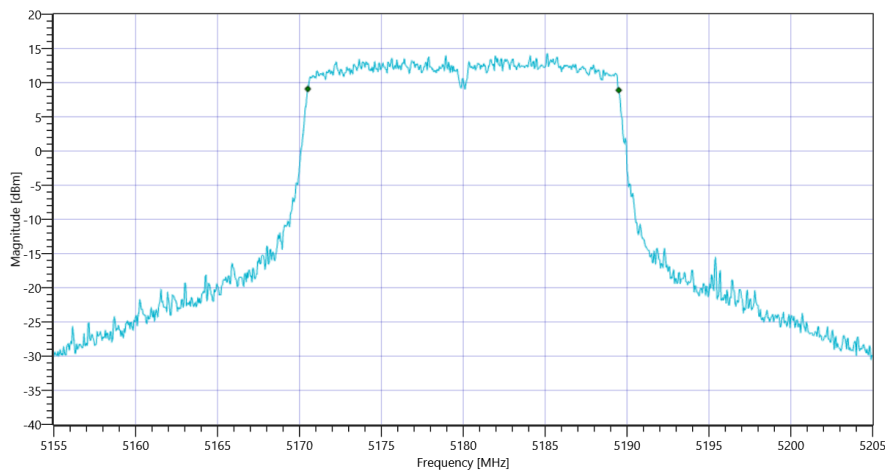
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.28   17.09   30
Start [MHz]   Stop [MHz]	5155.000   5205.000
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

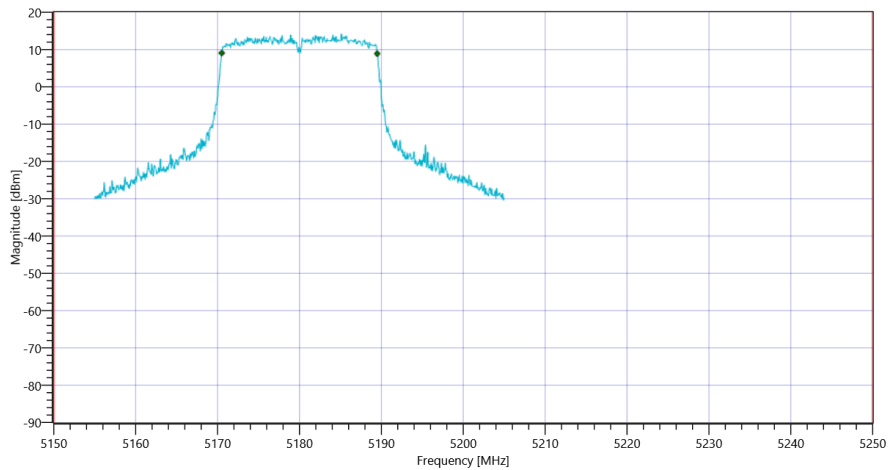
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.981	MHz	INFO
T1 99%	5150.000000	---	5170.5095	MHz	PASS
T2 99%	---	5250.000000	5189.4905	MHz	PASS

### Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1 99PCT

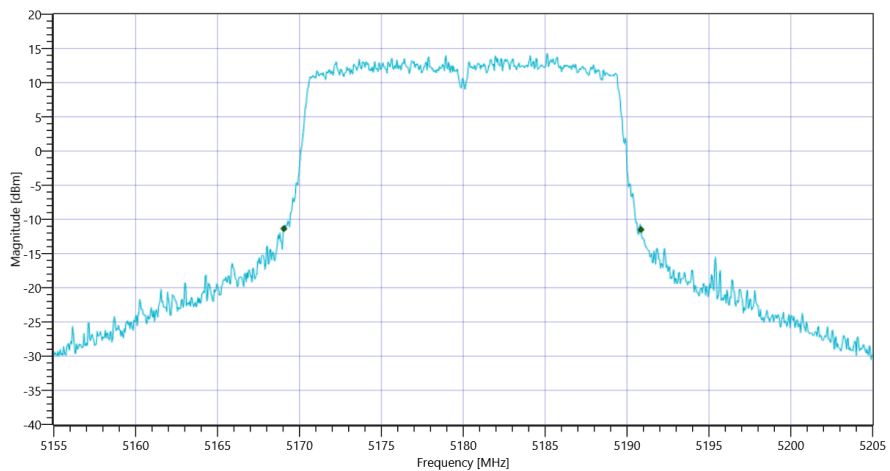
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

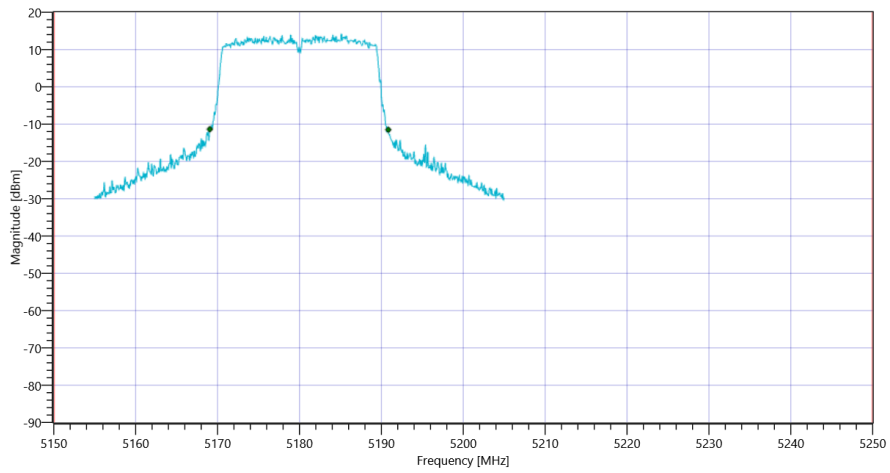
RESULT						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Bandwidth 20dB	---	---	21.8	MHz	INFO	
T1 26dB	5150.000000	---	5169.0500	MHz	PASS	
T2 26dB	---	5250.000000	5190.8500	MHz	PASS	

Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1 26dB

Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ax-HE20 U-NII-1

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1

Test References	
TC Start	30.03.2022 06:13:06
Ambit Temp [°C]   Humidity [rel%]	25.4   26
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-1
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5180 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	17.47	dBm	INFO
Ref. Frequency	---	---	5185.390	MHz	INFO

## Evaluation max. Duty Cycle

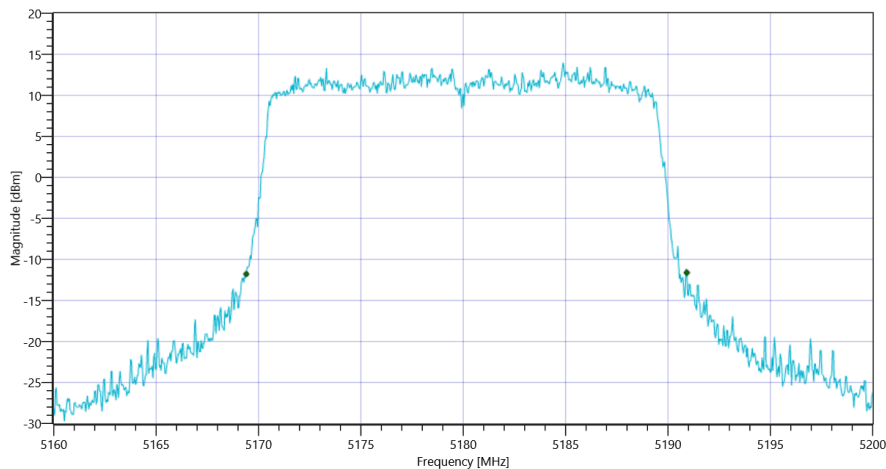
### Duty Cycle evaluation

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	---	---	21.52	MHz	INFO
T1 26dB	---	---	5169.4000	MHz	INFO
T2 26dB	---	---	5190.9200	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1\_BW

## Maximum Output Power

### READ SA SETTINGS:

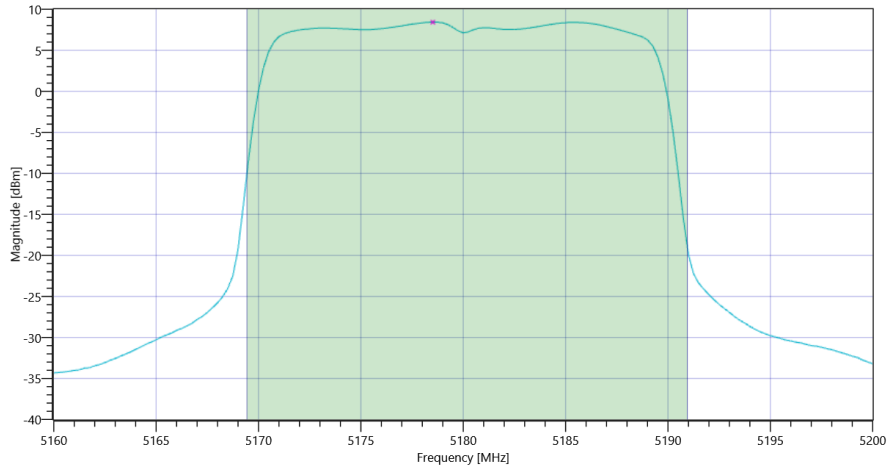
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	29.47   17.09   30
Start [MHz]   Stop [MHz]	5160.000   5200.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	20.25	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	20.25	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.33	20.25	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1 Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	8.43	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	17	8.43	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1

Test References	
TC Start	30.03.2022 06:09:23
Ambit Temp [°C]   Humidity [rel%]	25.4   26
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-1
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5180 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.98	dBm	INFO
Ref. Frequency	---	---	5178.600	MHz	INFO

## Evaluation max. Duty Cycle

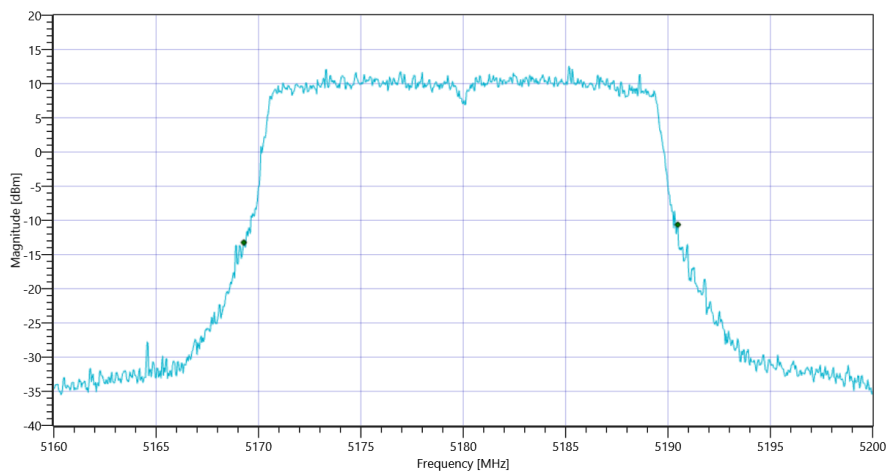
### Duty Cycle evaluation

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	---	---	21.2	MHz	INFO
T1 26dB	---	---	5169.2800	MHz	INFO
T2 26dB	---	---	5190.4800	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1\_BW

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.98   17.09   25
Start [MHz]   Stop [MHz]	5160.000   5200.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

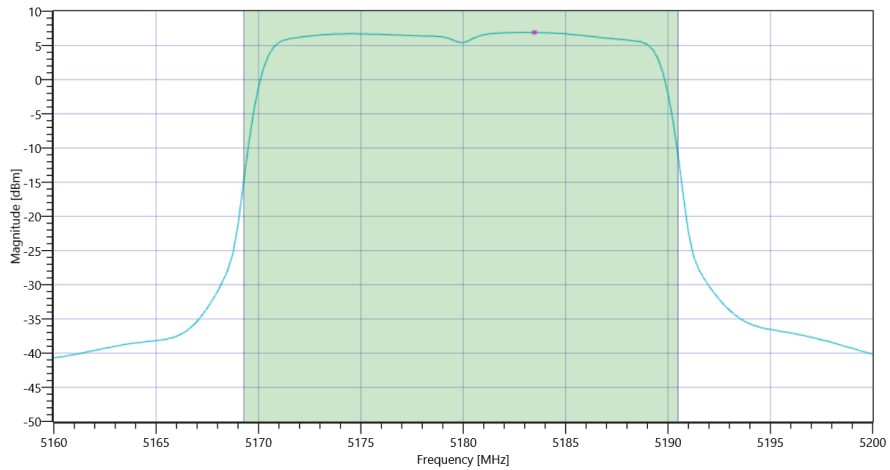
### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	18.9	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					



**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	18.9	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.26	18.9	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1 Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	6.92	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	17	6.92	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1

Test References	
TC Start	30.03.2022 06:05:40
Ambit Temp [°C]   Humidity [rel%]	25.4   26
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-1
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5180 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.77	dBm	INFO
Ref. Frequency	---	---	5184.000	MHz	INFO

## Evaluation max. Duty Cycle

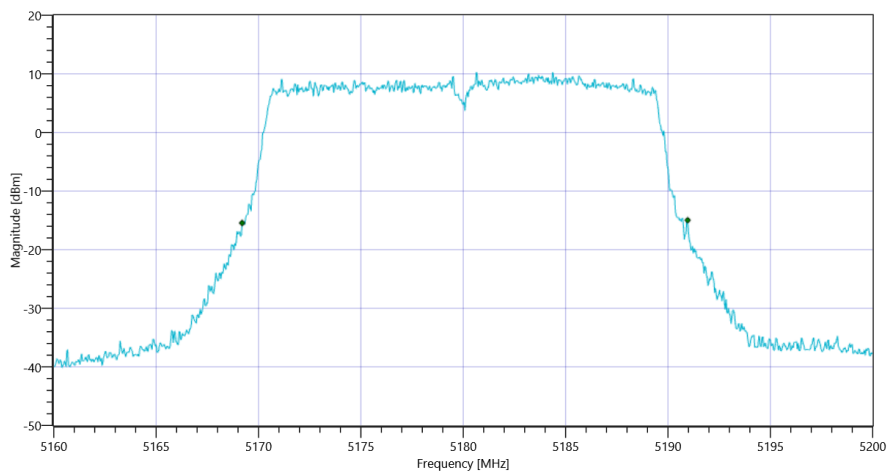
### Duty Cycle evaluation

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	---	---	21.76	MHz	INFO
T1 26dB	---	---	5169.2000	MHz	INFO
T2 26dB	---	---	5190.9600	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1\_BW

## Maximum Output Power

### READ SA SETTINGS:

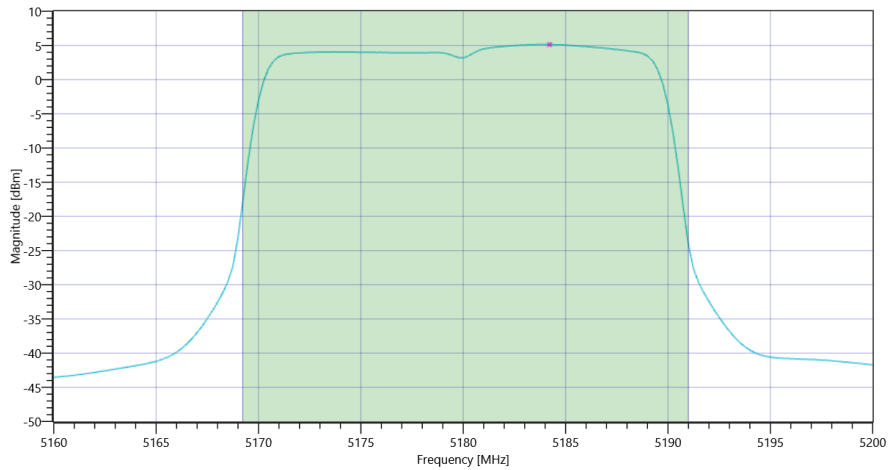
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	25.77   17.09   25
Start [MHz]   Stop [MHz]	5160.000   5200.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	16.81	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	16.81	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.38	16.81	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1 Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	5.13	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	17	5.13	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1

Test References	
TC Start	30.03.2022 06:01:58
Ambit Temp [°C]   Humidity [rel%]	25.4   26
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-1
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5180 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	17.93	dBm	INFO
Ref. Frequency	---	---	5182.400	MHz	INFO

## Evaluation max. Duty Cycle

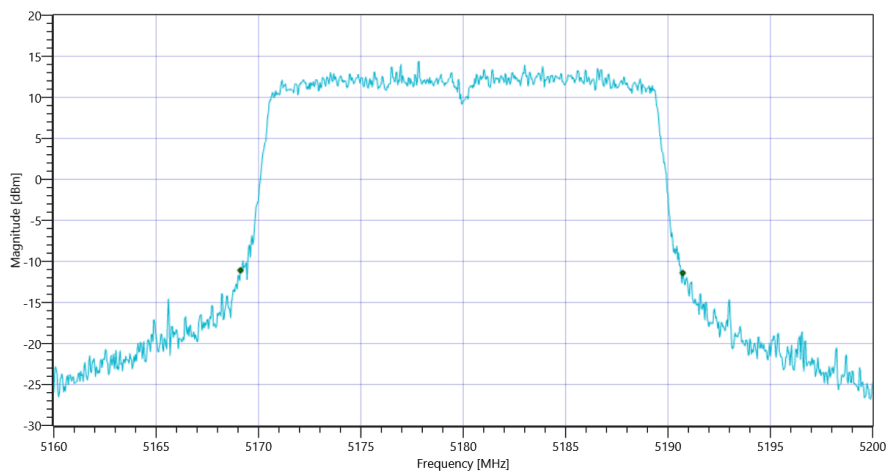
### Duty Cycle evaluation

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	---	---	21.6	MHz	INFO
T1 26dB	---	---	5169.1200	MHz	INFO
T2 26dB	---	---	5190.7200	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1\_BW

## Maximum Output Power

### READ SA SETTINGS:

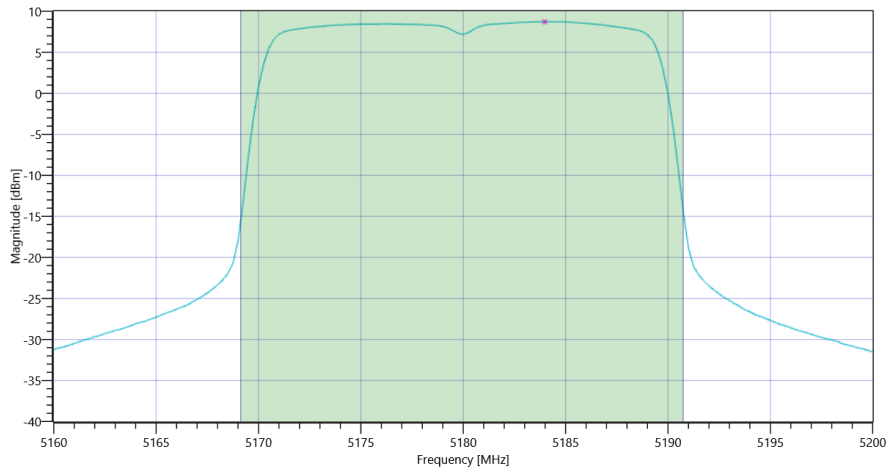
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	29.93   17.09   30
Start [MHz]   Stop [MHz]	5160.000   5200.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	20.76	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	20.76	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.34	20.76	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-1 Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	8.72	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	17	8.72	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	31.03.2022 15:56:07
Ambit Temp [°C]   Humidity [rel%]	25.3   28
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
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]	0.5
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.	---	---	19.71	dBm	INFO
Ref. Frequency	---	---	5737.010	MHz	INFO

## Evaluation max. Duty Cycle

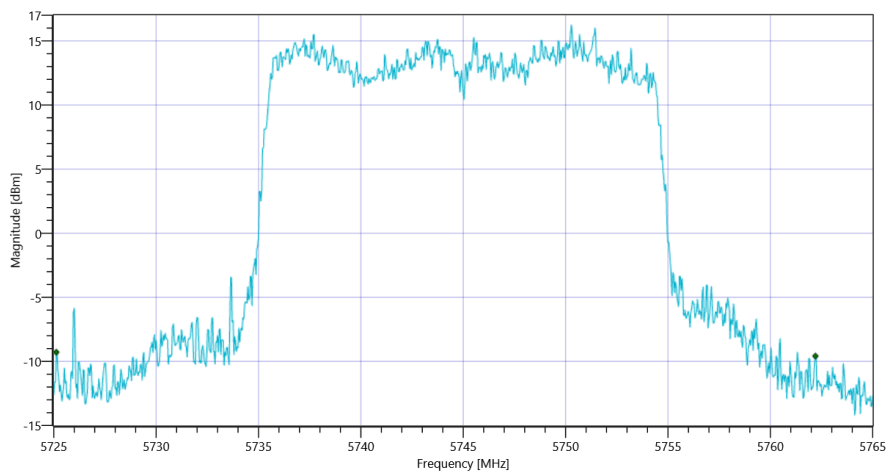
### Duty Cycle evaluation

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	---	---	37.08	MHz	INFO
T1 26dB	---	---	5725.1200	MHz	INFO
T2 26dB	---	---	5762.2000	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

### READ SA SETTINGS:

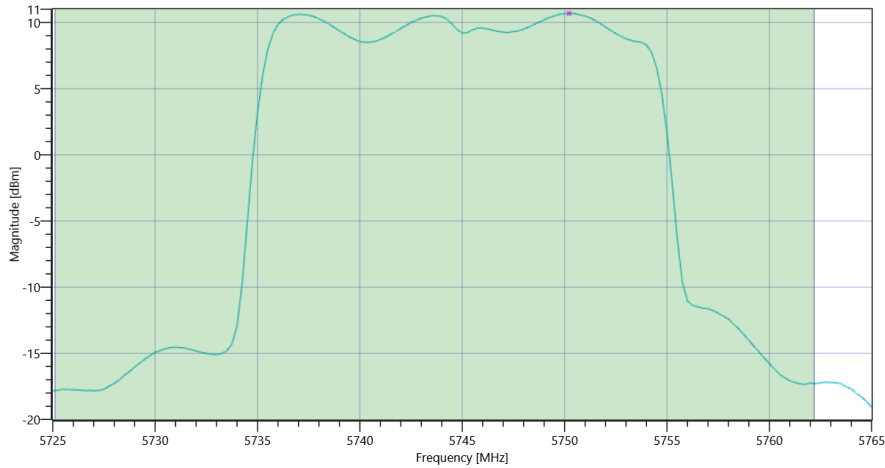
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.71   17.82   30
Start [MHz]   Stop [MHz]	5725.000   5765.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	22.3	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	22.3	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.69	22.3	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

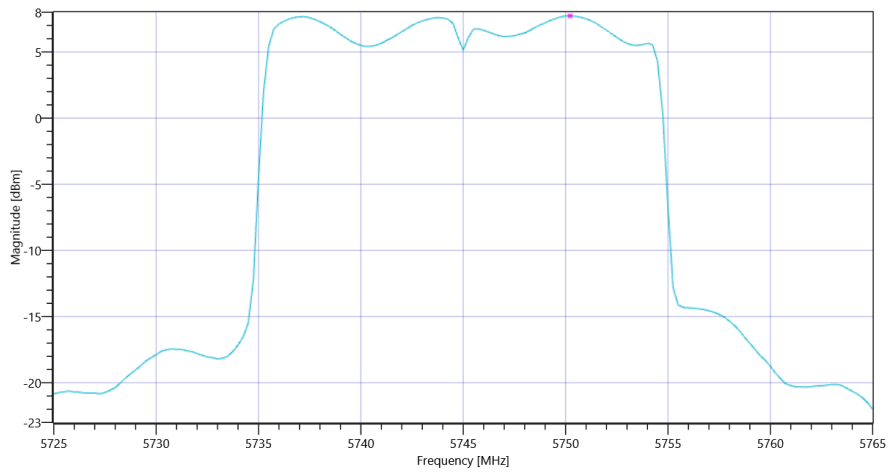
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.71   17.82   30
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	---	---	7.73	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	7.73	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	31.03.2022 15:51:43
Ambit Temp [°C]   Humidity [rel%]	25.3   28
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
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]	0.5
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.	---	---	20.87	dBm	INFO
Ref. Frequency	---	---	5748.600	MHz	INFO

## Evaluation max. Duty Cycle

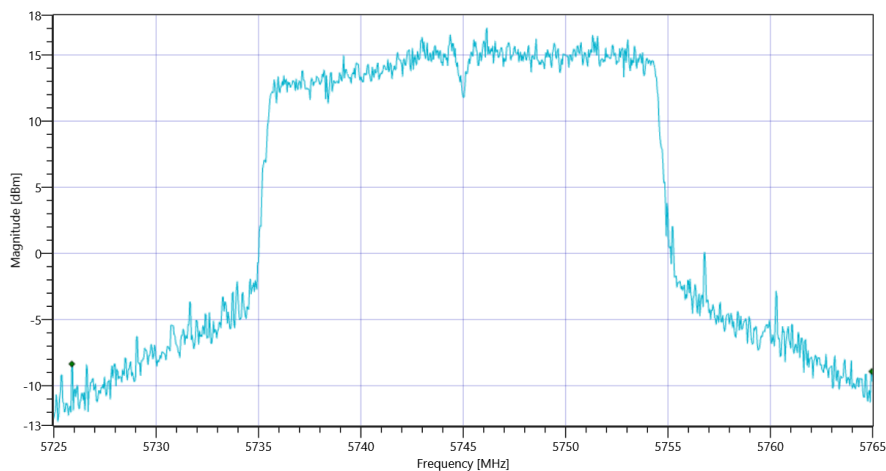
### Duty Cycle evaluation

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	---	---	39.08	MHz	INFO
T1 26dB	---	---	5725.8800	MHz	INFO
T2 26dB	---	---	5764.9600	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

### READ SA SETTINGS:

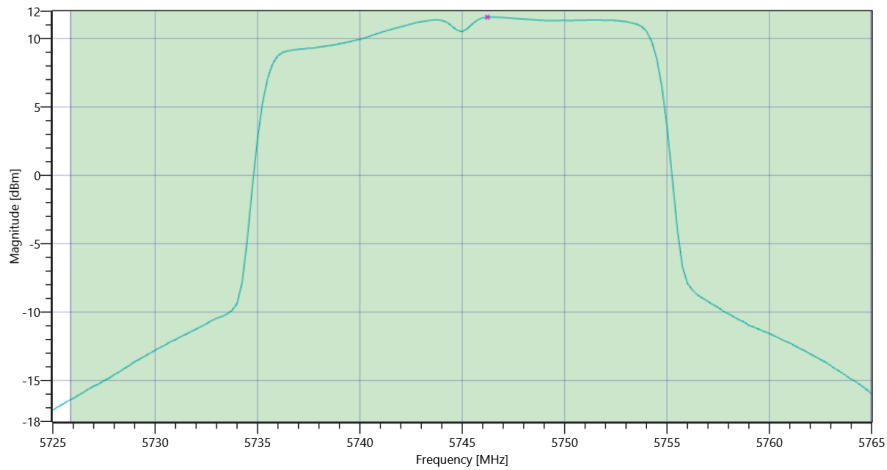
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.87   17.82   30
Start [MHz]   Stop [MHz]	5725.000   5765.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	23.35	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	23.35	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.92	23.35	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

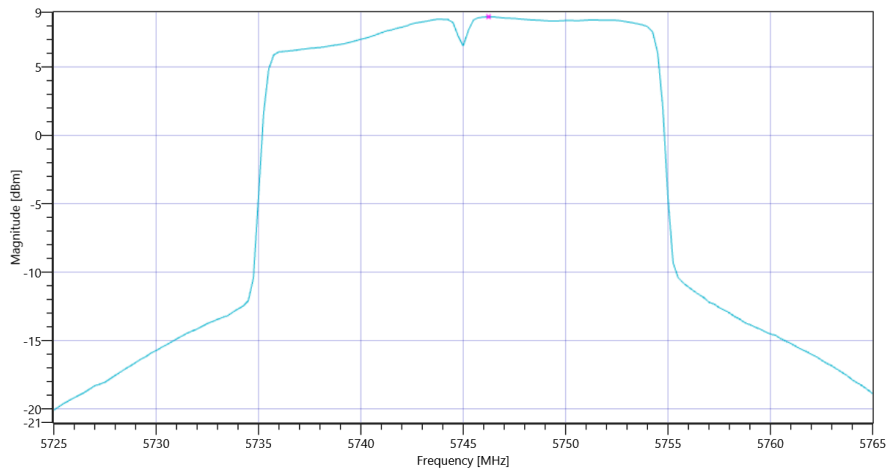
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.87   17.82   35
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	---	---	8.67	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	8.67	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	31.03.2022 15:47:19
Ambit Temp [°C]   Humidity [rel%]	25.4   28
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
Antenna Port used	2
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]	0.5
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.	---	---	22.96	dBm	INFO
Ref. Frequency	---	---	5753.790	MHz	INFO

## Evaluation max. Duty Cycle

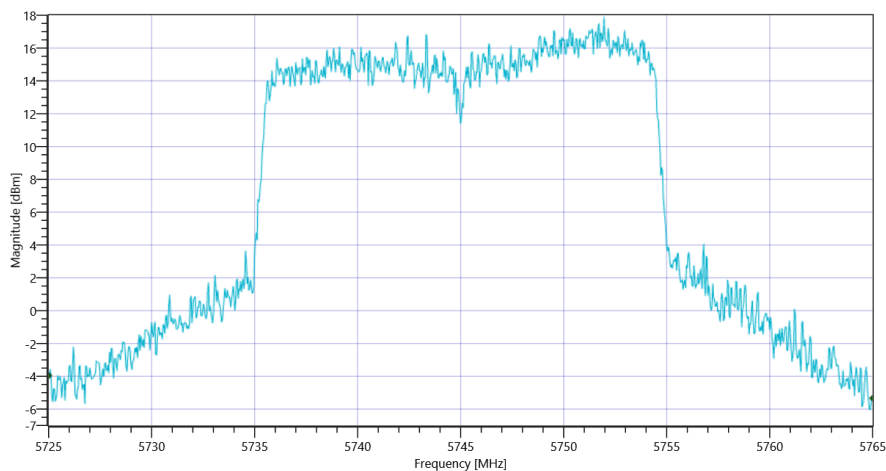
### Duty Cycle evaluation

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	---	---	40	MHz	INFO
T1 26dB	---	---	5725.0000	MHz	INFO
T2 26dB	---	---	5765.0000	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

### READ SA SETTINGS:

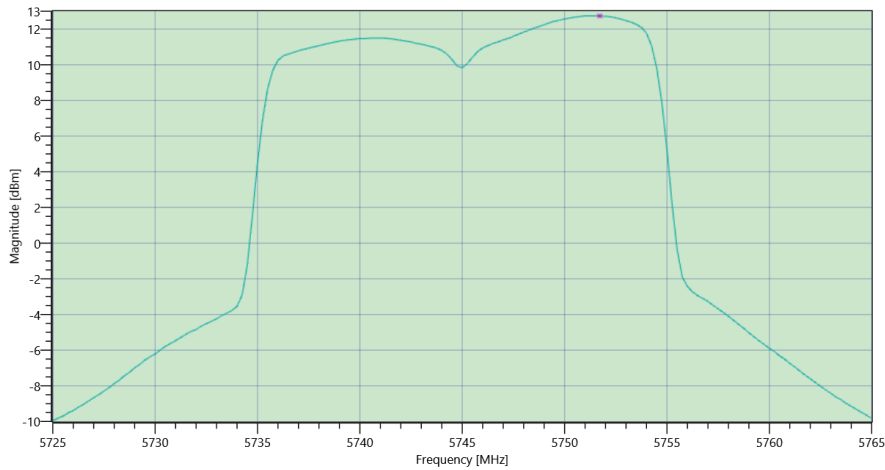
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	34.96   17.82   35
Start [MHz]   Stop [MHz]	5725.000   5765.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	24.24	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	24.24	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.02	24.24	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

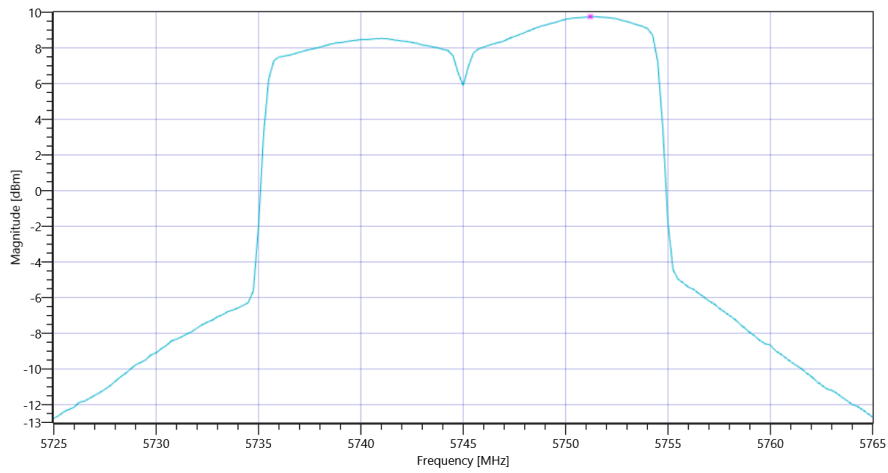
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	34.96   17.82   35
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	---	---	9.76	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	9.76	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	31.03.2022 15:42:57
Ambit Temp [°C]   Humidity [rel%]	25.3   28
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
Antenna Port used	1
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]	0.5
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.	---	---	18.44	dBm	INFO
Ref. Frequency	---	---	5752.990	MHz	INFO

## Evaluation max. Duty Cycle

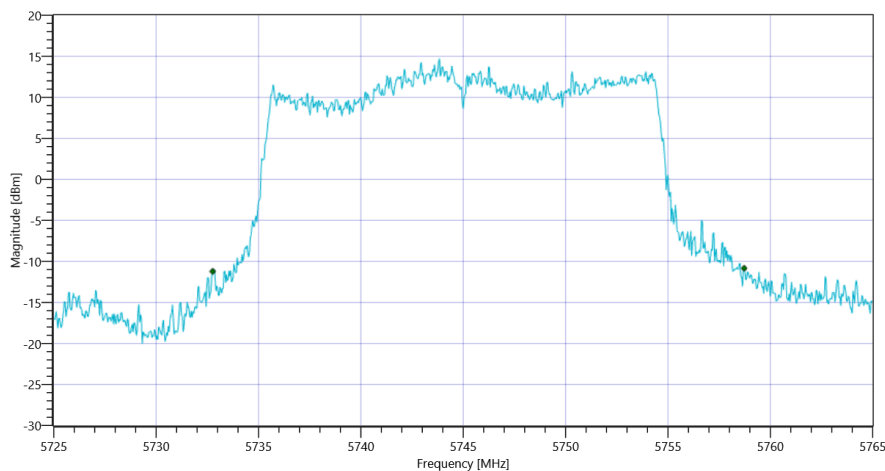
### Duty Cycle evaluation

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	---	---	25.96	MHz	INFO
T1 26dB	---	---	5732.7600	MHz	INFO
T2 26dB	---	---	5758.7200	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

### READ SA SETTINGS:

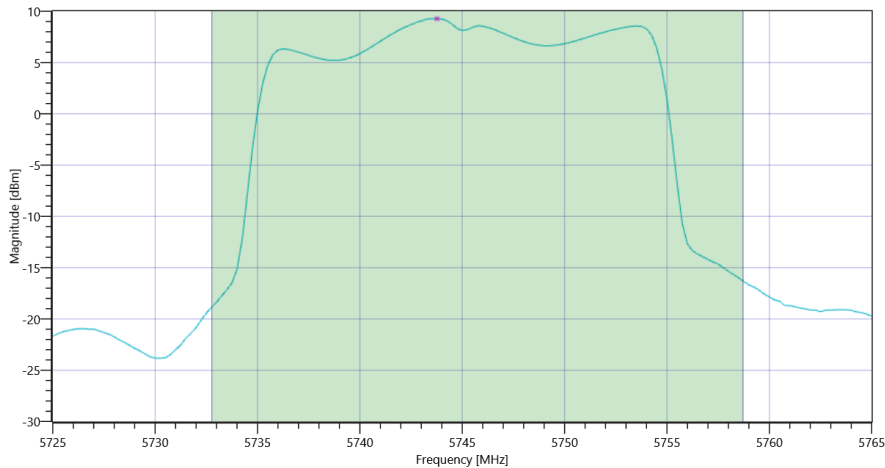
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	30.44   17.82   30
Start [MHz]   Stop [MHz]	5725.000   5765.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	20.1	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	20.1	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	25.14	20.1	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

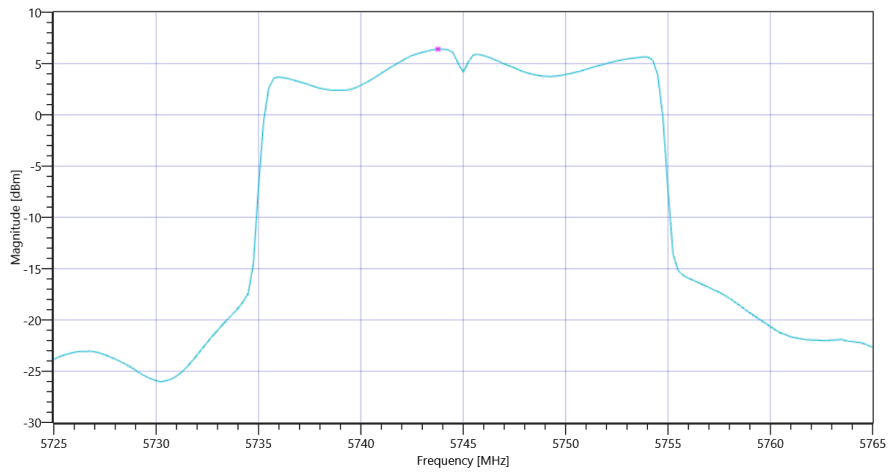
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	30.44   17.82   30
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	---	---	6.41	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	6.41	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	30.03.2022 14:57:54
Ambit Temp [°C]   Humidity [rel%]	25.4   32
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	True   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5785 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	19.00	dBm	INFO
Ref. Frequency	---	---	5790.000	MHz	INFO

## Evaluation max. Duty Cycle

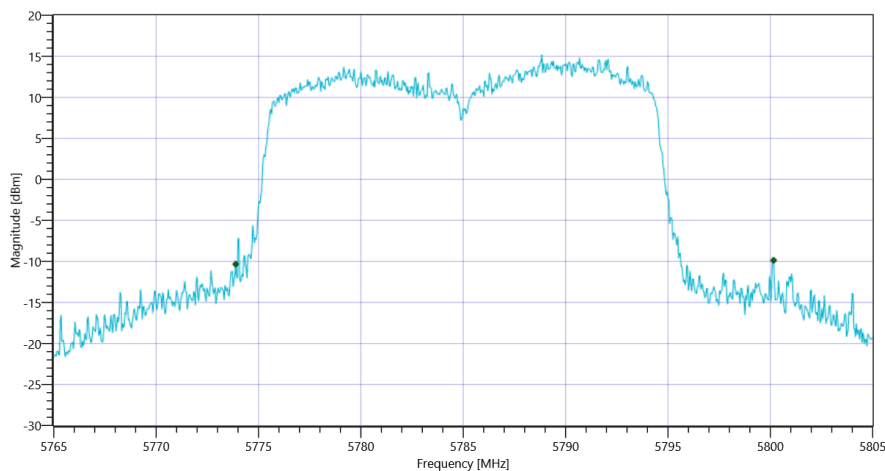
Duty Cycle evaluation

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	---	---	26.28	MHz	INFO
T1 26dB	---	---	5773.8800	MHz	INFO
T2 26dB	---	---	5800.1600	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

READ SA SETTINGS:

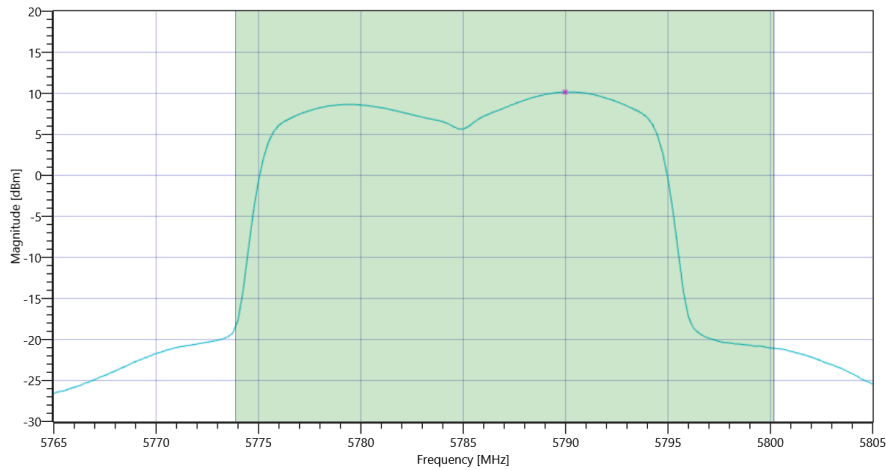
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.00   17.86   30
Start [MHz]   Stop [MHz]	5765.000   5805.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	20.82	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	20.82	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	25.2	20.82	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

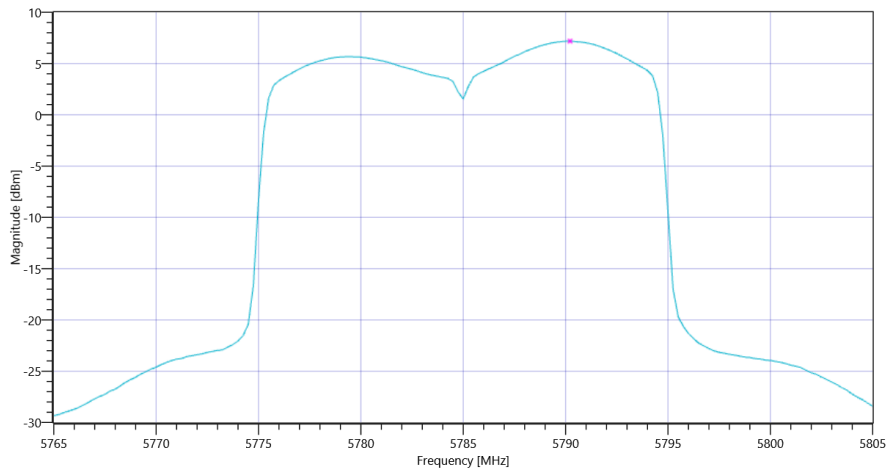
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.00   17.86   30
Start [MHz]   Stop [MHz]	5765.000   5805.000
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	---	---	7.19	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	7.19	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	30.03.2022 14:23:05
Ambit Temp [°C]   Humidity [rel%]	25.5   32
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	True   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5785 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	18.63	dBm	INFO
Ref. Frequency	---	---	5784.000	MHz	INFO

## Evaluation max. Duty Cycle

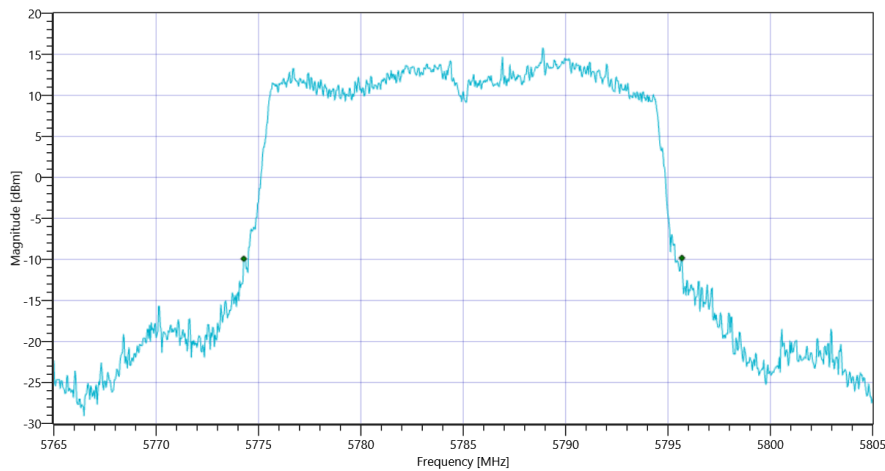
### Duty Cycle evaluation

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	---	---	21.4	MHz	INFO
T1 26dB	---	---	5774.2800	MHz	INFO
T2 26dB	---	---	5795.6800	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

### READ SA SETTINGS:

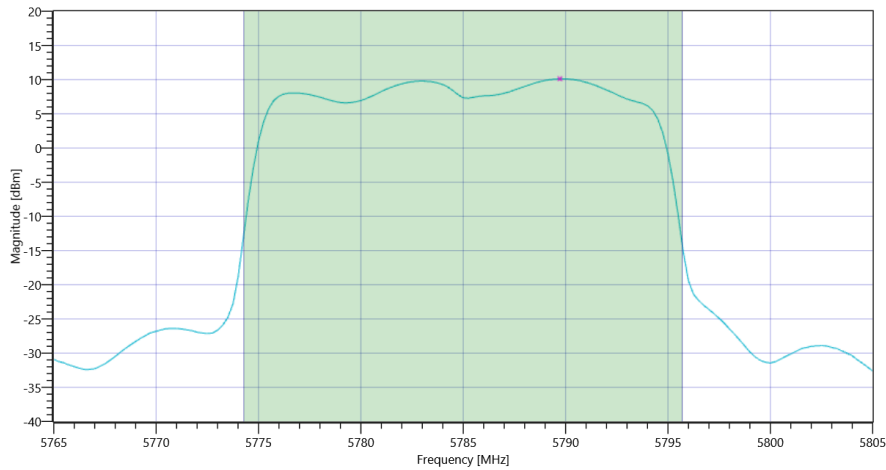
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	30.63   17.86   30
Start [MHz]   Stop [MHz]	5765.000   5805.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	20.96	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	20.96	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.3	20.96	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

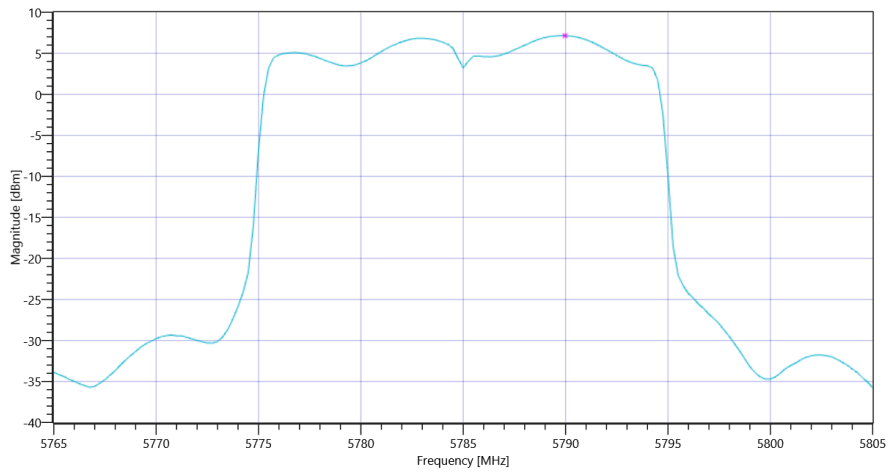
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	30.63   17.86   30
Start [MHz]   Stop [MHz]	5765.000   5805.000
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	---	---	7.15	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	7.15	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	30.03.2022 14:16:44
Ambit Temp [°C]   Humidity [rel%]	25.5   32
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	True   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5785 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	19.11	dBm	INFO
Ref. Frequency	---	---	5777.610	MHz	INFO

## Evaluation max. Duty Cycle

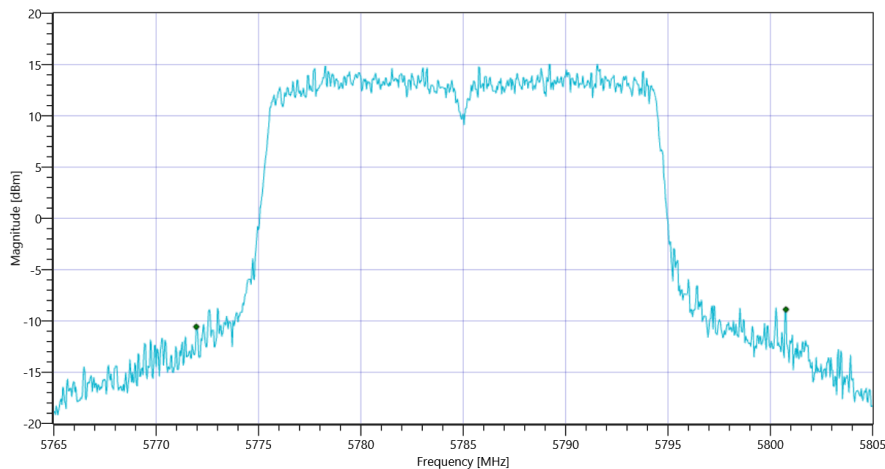
### Duty Cycle evaluation

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	---	---	28.8	MHz	INFO
T1 26dB	---	---	5771.9600	MHz	INFO
T2 26dB	---	---	5800.7600	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

### READ SA SETTINGS:

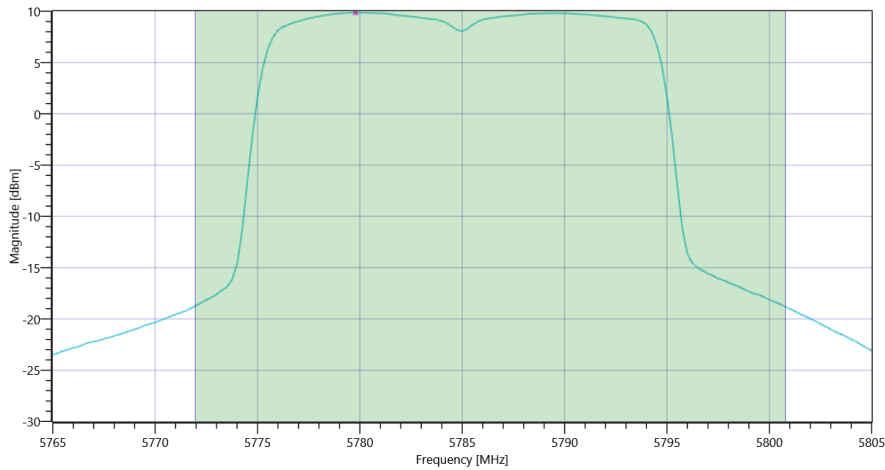
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.11   17.86   30
Start [MHz]   Stop [MHz]	5765.000   5805.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	21.93	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	21.93	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	25.59	21.93	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

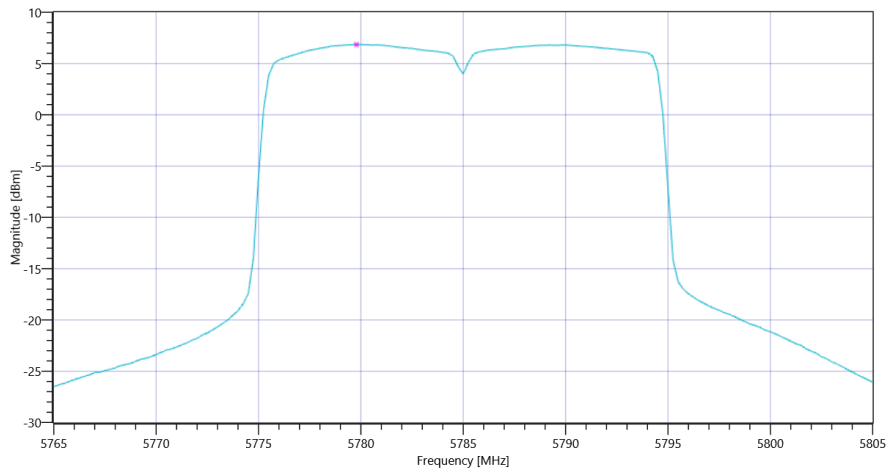
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.11   17.86   30
Start [MHz]   Stop [MHz]	5765.000   5805.000
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	---	---	6.85	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	6.85	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	30.03.2022 14:04:02
Ambit Temp [°C]   Humidity [rel%]	25.5   32
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	True   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5785 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	19.91	dBm	INFO
Ref. Frequency	---	---	5790.190	MHz	INFO

## Evaluation max. Duty Cycle

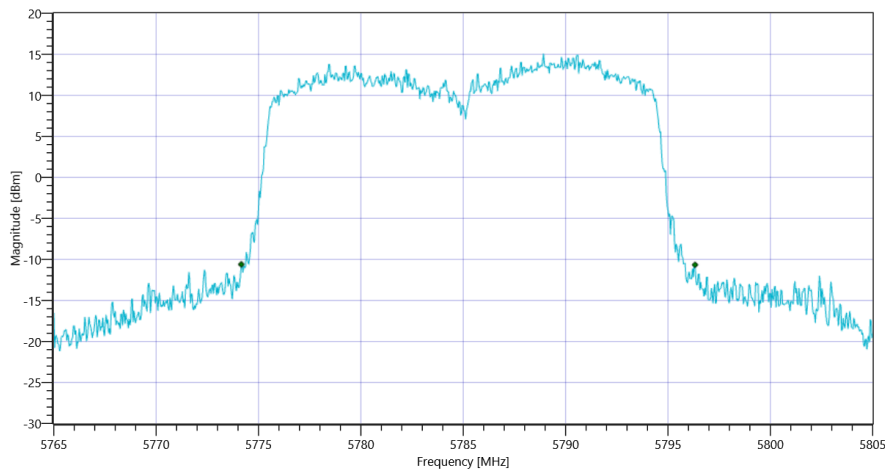
### Duty Cycle evaluation

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	---	---	22.16	MHz	INFO
T1 26dB	---	---	5774.1600	MHz	INFO
T2 26dB	---	---	5796.3200	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

### READ SA SETTINGS:

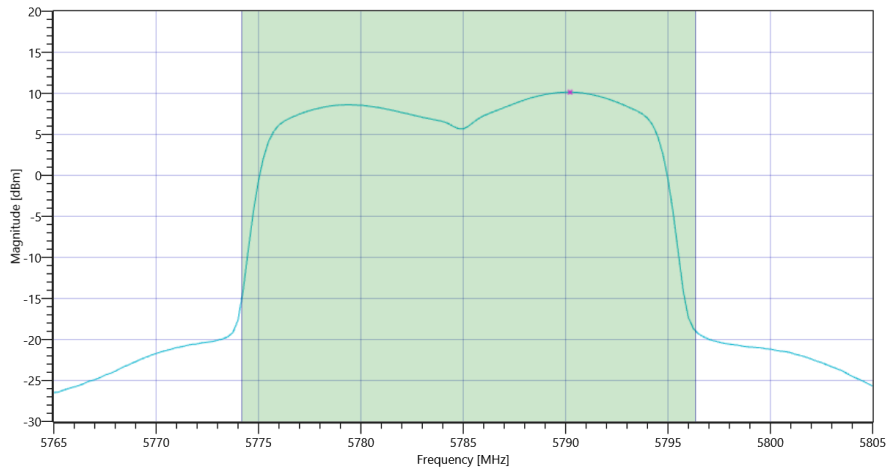
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.91   17.86   30
Start [MHz]   Stop [MHz]	5765.000   5805.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	20.81	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	20.81	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.46	20.81	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

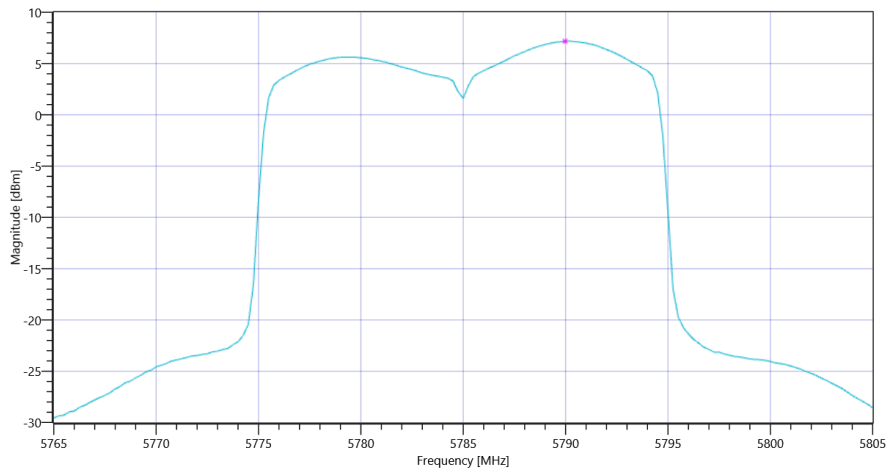
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.91   17.86   30
Start [MHz]   Stop [MHz]	5765.000   5805.000
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	---	---	7.17	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	7.17	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	30.03.2022 08:18:58
Ambit Temp [°C]   Humidity [rel%]	25.3   30
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	True   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5825 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	18.68	dBm	INFO
Ref. Frequency	---	---	5828.800	MHz	INFO

## Evaluation max. Duty Cycle

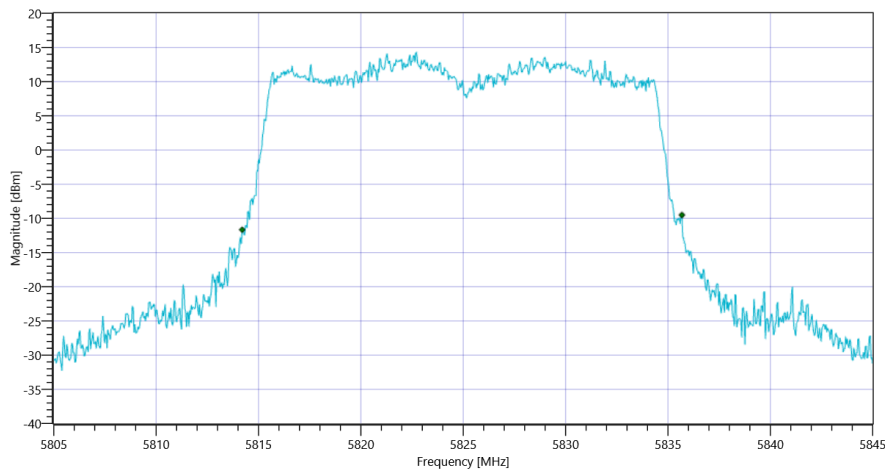
Duty Cycle evaluation

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	---	---	21.48	MHz	INFO
T1 26dB	---	---	5814.2000	MHz	INFO
T2 26dB	---	---	5835.6800	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

READ SA SETTINGS:

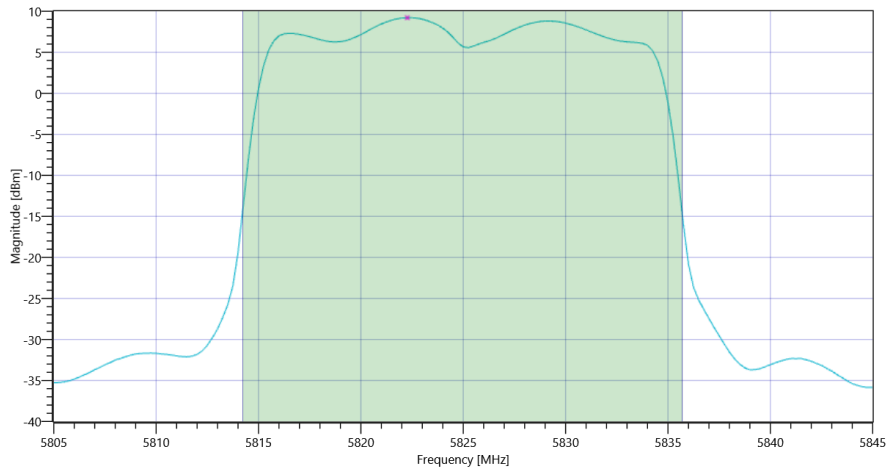
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	30.68   17.84   30
Start [MHz]   Stop [MHz]	5805.000   5845.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	20.07	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	20.07	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.32	20.07	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

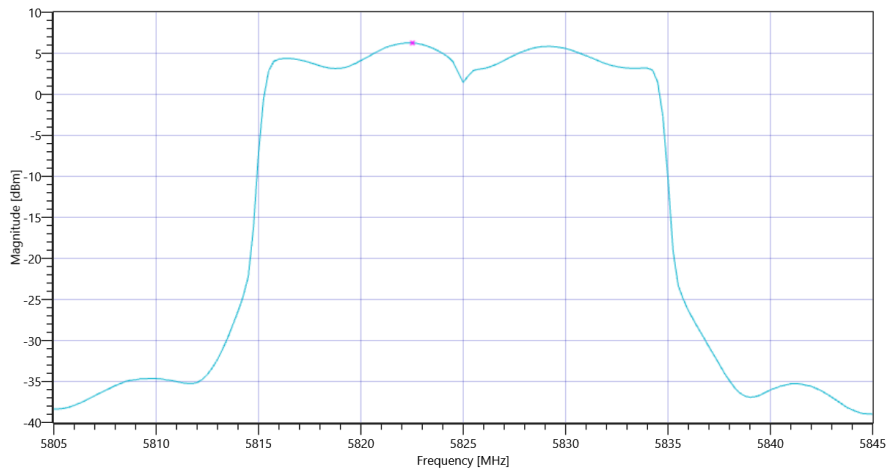
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	30.68   17.84   30
Start [MHz]   Stop [MHz]	5805.000   5845.000
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	---	---	6.26	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	6.26	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	30.03.2022 08:13:04
Ambit Temp [°C]   Humidity [rel%]	25.3   30
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	True   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5825 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	19.80	dBm	INFO
Ref. Frequency	---	---	5829.400	MHz	INFO

## Evaluation max. Duty Cycle

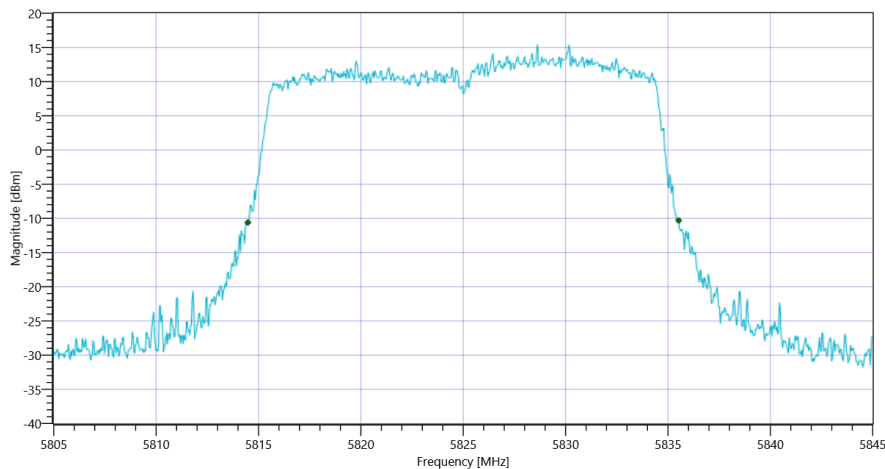
Duty Cycle evaluation

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	---	---	21.04	MHz	INFO
T1 26dB	---	---	5814.4800	MHz	INFO
T2 26dB	---	---	5835.5200	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

READ SA SETTINGS:

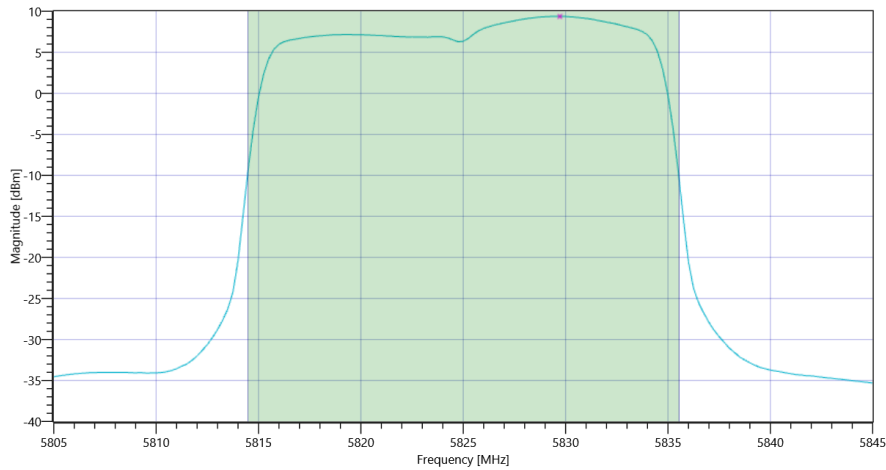
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.80   17.84   30
Start [MHz]   Stop [MHz]	5805.000   5845.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	20.33	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	20.33	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.23	20.33	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

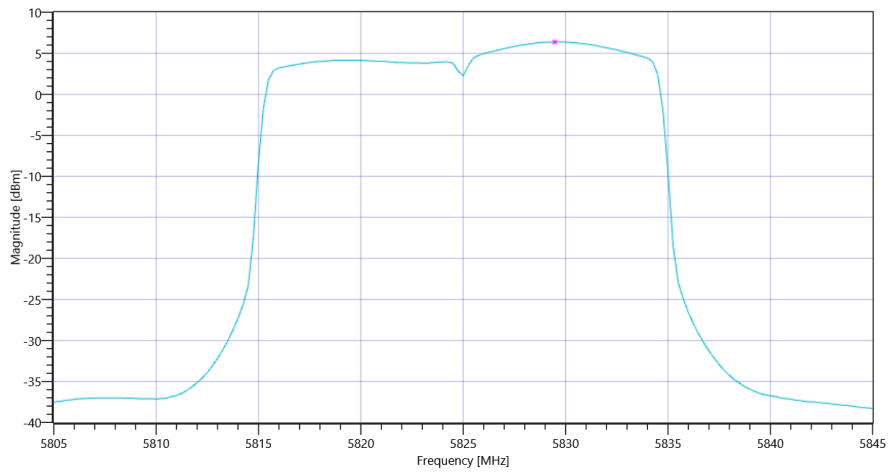
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.80   17.84   30
Start [MHz]   Stop [MHz]	5805.000   5845.000
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	---	---	6.37	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	6.37	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	30.03.2022 08:07:11
Ambit Temp [°C]   Humidity [rel%]	25.3   30
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	True   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5825 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	22.97	dBm	INFO
Ref. Frequency	---	---	5826.200	MHz	INFO

## Evaluation max. Duty Cycle

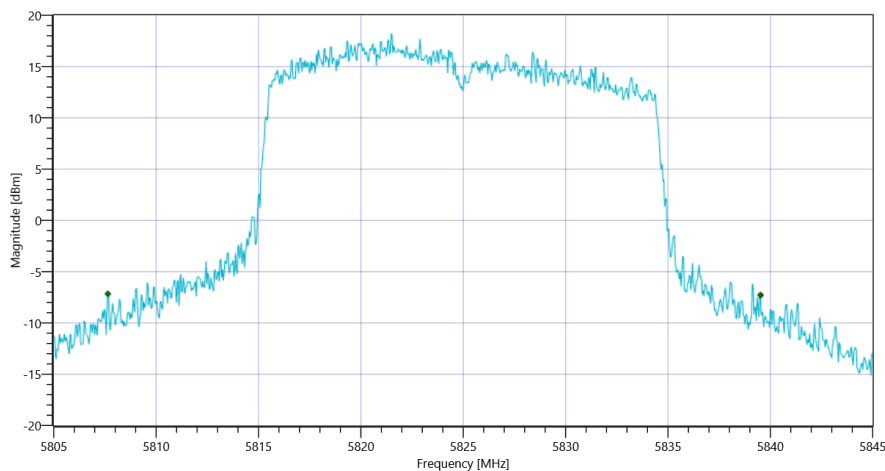
### Duty Cycle evaluation

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	---	---	31.88	MHz	INFO
T1 26dB	---	---	5807.6400	MHz	INFO
T2 26dB	---	---	5839.5200	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

### READ SA SETTINGS:

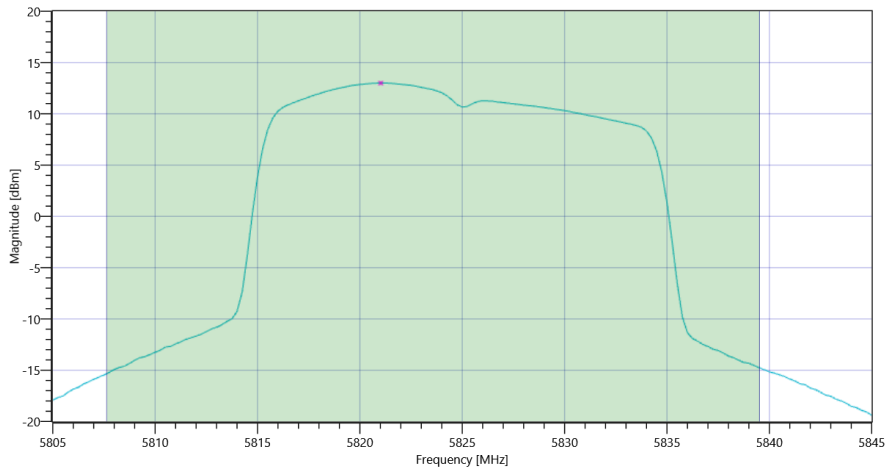
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	34.97   17.84   35
Start [MHz]   Stop [MHz]	5805.000   5845.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	23.86	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	23.86	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.04	23.86	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

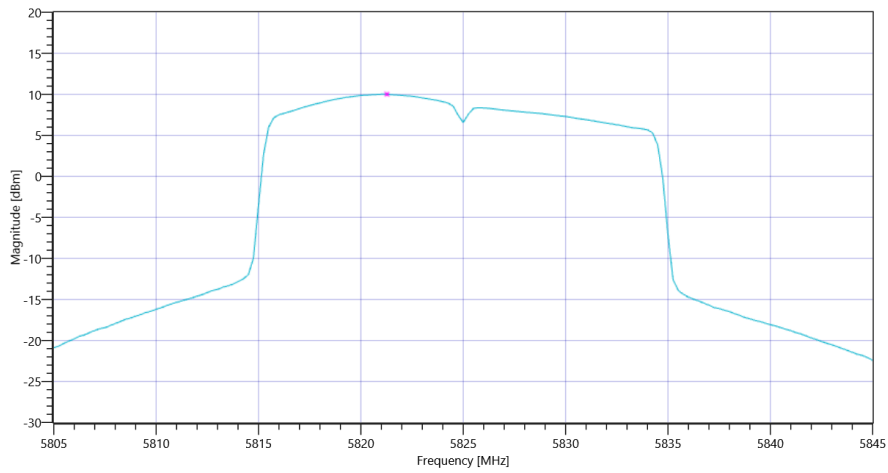
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	34.97   17.84   35
Start [MHz]   Stop [MHz]	5805.000   5845.000
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	---	---	10.01	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	10.01	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3

Test References	
TC Start	30.03.2022 08:01:18
Ambit Temp [°C]   Humidity [rel%]	25.3   30
System Version	3.0.5.9
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ax-HE20 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ax-HE20 U-NII-3
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	True   Freq [MHz] 5825
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
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 5825 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	18.52	dBm	INFO
Ref. Frequency	---	---	5825.800	MHz	INFO

## Evaluation max. Duty Cycle

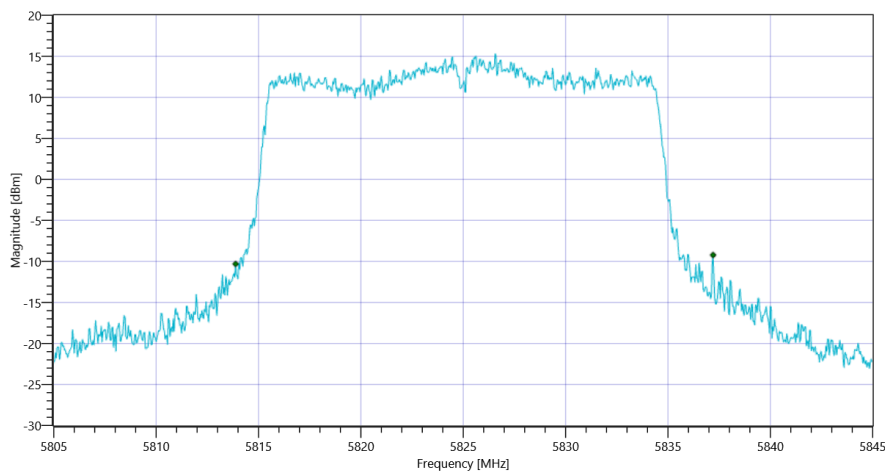
### Duty Cycle evaluation

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	---	---	23.32	MHz	INFO
T1 26dB	---	---	5813.8800	MHz	INFO
T2 26dB	---	---	5837.2000	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3\_BW

## Maximum Output Power

### READ SA SETTINGS:

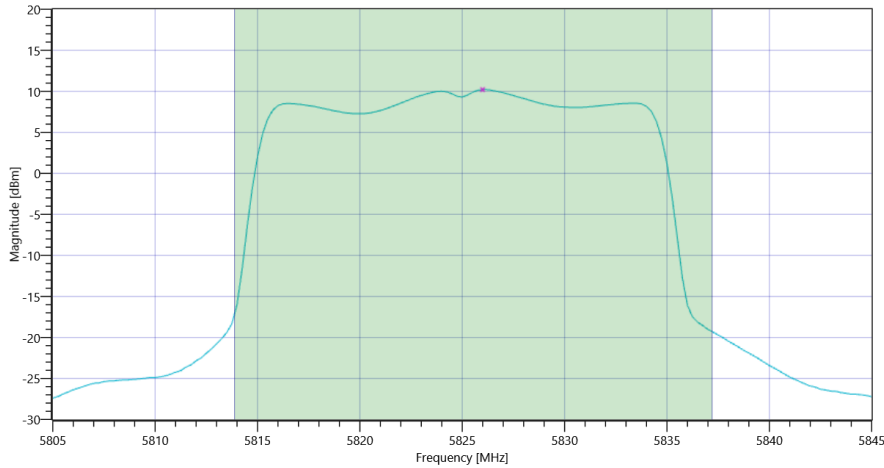
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	30.52   17.84   30
Start [MHz]   Stop [MHz]	5805.000   5845.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	21.25	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	21.25	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.68	21.25	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 Max OP and PSD

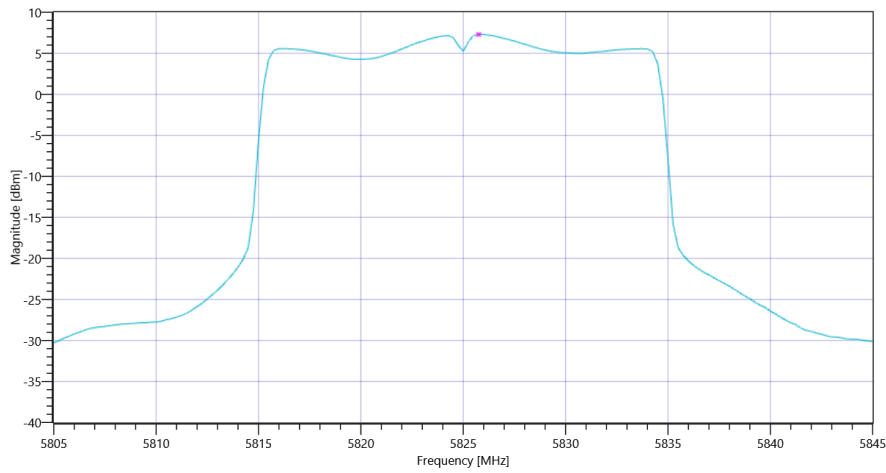
**Power Spectral Density U-NII-3**

**READ SA SETTINGS:**

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	30.52   17.84   30
Start [MHz]   Stop [MHz]	5805.000   5845.000
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	---	---	7.29	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	7.29	dBm/0.5MHz	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ax-HE20 U-NII-3 PSD UNII-3

General verdict

PASS

- END OF DOCUMENT -