Measurement Results

No.1-4095/22-01-05_Annex_MR_A9

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Andreas Kurzkurt
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Table of Content

EUT Information

EUT DEFINITION	
Manufacturer	Sagemcom
Type	DIW377 ALT US
Serial Number	622172052818
Setup Number	1.0
Version SW	NI
Version FW	NI
Version HW	NI
Comment 1	
Comment 2	
Temperature [°C] Min	-5
Temperature [°C] Nom	20
Temperature [°C] Max	45
Voltage [V] Min	110
Voltage [V] Nom	115
Voltage [V] Max	127

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

Test References	
TC Start	19.07.2022 11:17:27
Ambit Temp [°C] | Humidity [rel%]	26.3 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 0
Frequency mid to test	True | Freq [MHz] 5210
Frequency high to test	False | Freq [MHz] 0
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
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

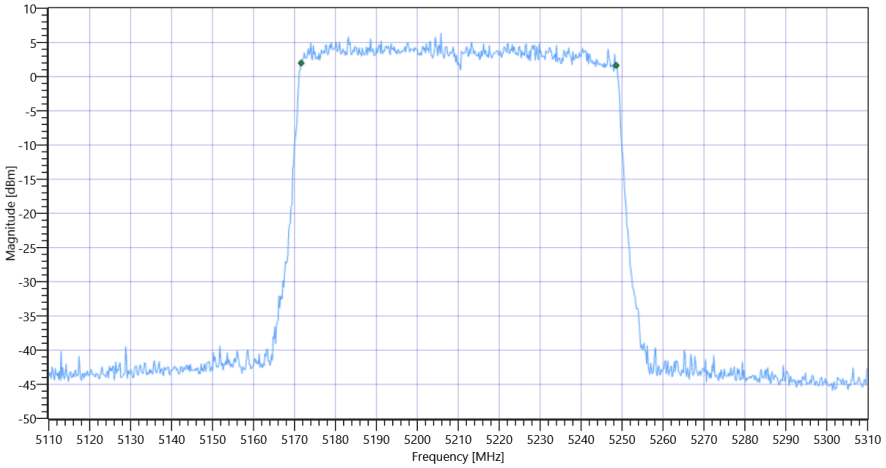
Test at TX 5210 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	4.98	dBm	INFO
Ref. Frequency	---	---	5217.390	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	12.98 | 17.99 | 10
Start [MHz] | Stop [MHz]	5110.000 | 5310.000
RBW [MHz] | VBW [MHz]	1.000000 | 5.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

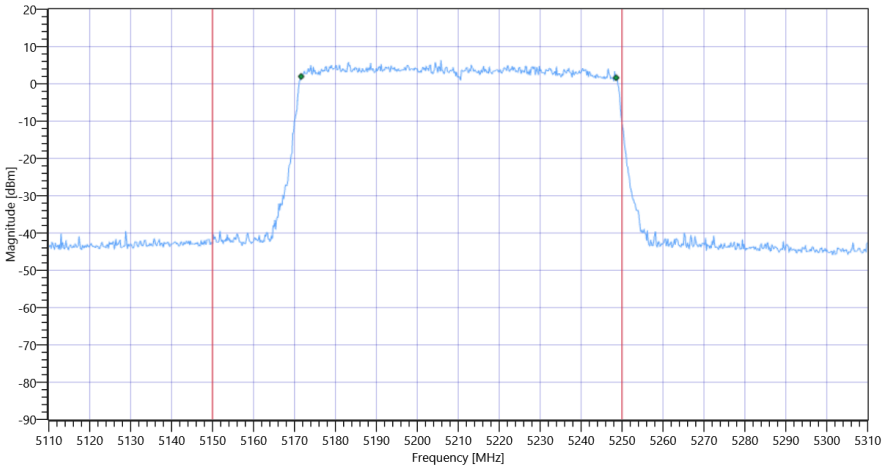
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	76.923	MHz	INFO
T1 99%	5150.000000	---	5171.6384	MHz	PASS
T2 99%	---	5250.000000	5248.5614	MHz	PASS

Plot: Bandwidth only



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

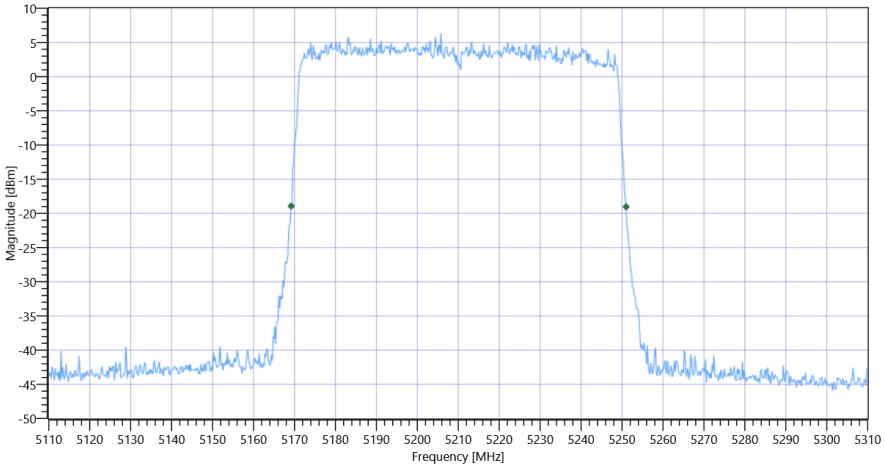
Plot: Bandwidth within Band



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

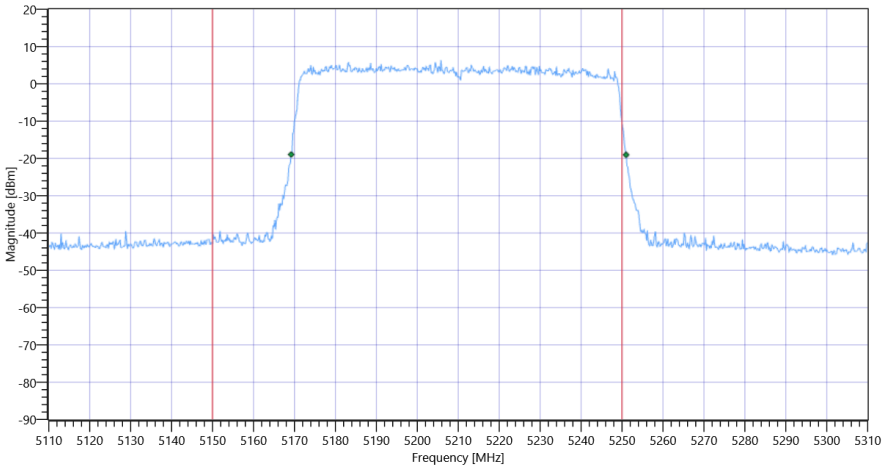
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	81.8	MHz	INFO
T1 26dB	5150.000000	---	5169.2000	MHz	PASS
T2 26dB	---	5250.000000	5251.0000	MHz	DFS required

Plot: Bandwidth only



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

Plot: Bandwidth within Band



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

General verdict	PASS

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

Test References	
TC Start	19.07.2022 11:24:59
Ambit Temp [°C] | Humidity [rel%]	26.3 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 0
Frequency mid to test	True | Freq [MHz] 5210
Frequency high to test	False | Freq [MHz] 0
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
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

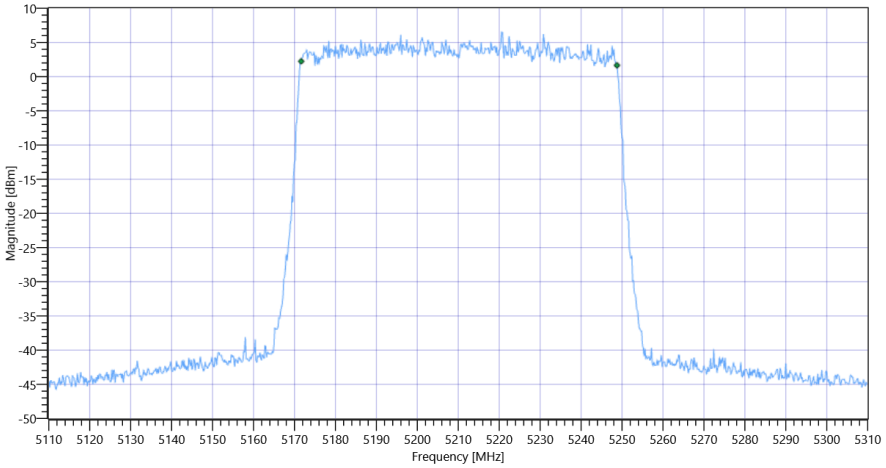
Test at TX 5210 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	3.73	dBm	INFO
Ref. Frequency	---	---	5218.590	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.73 | 17.99 | 10
Start [MHz] | Stop [MHz]	5110.000 | 5310.000
RBW [MHz] | VBW [MHz]	1.000000 | 5.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

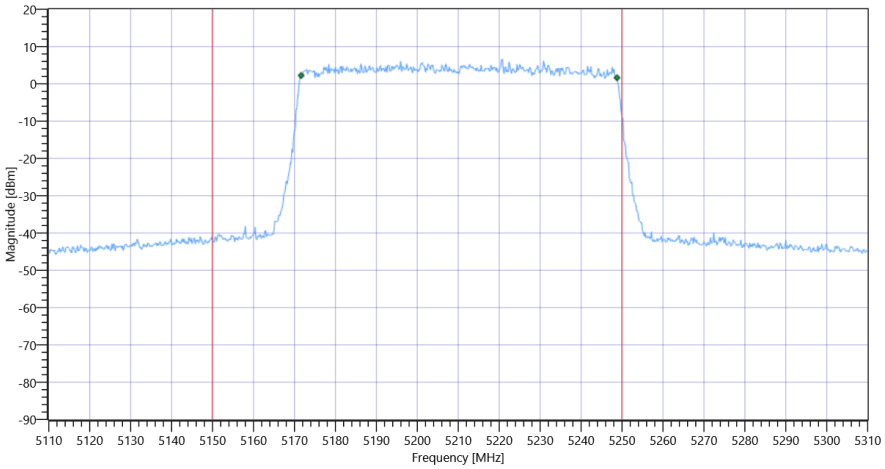
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	77.123	MHz	INFO
T1 99%	5150.000000	---	5171.6384	MHz	PASS
T2 99%	---	5250.000000	5248.7612	MHz	PASS

Plot: Bandwidth only



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

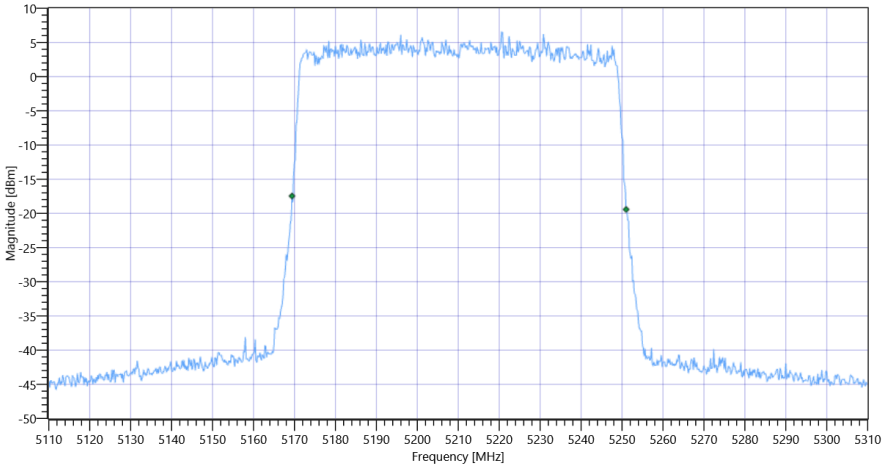
Plot: Bandwidth within Band



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

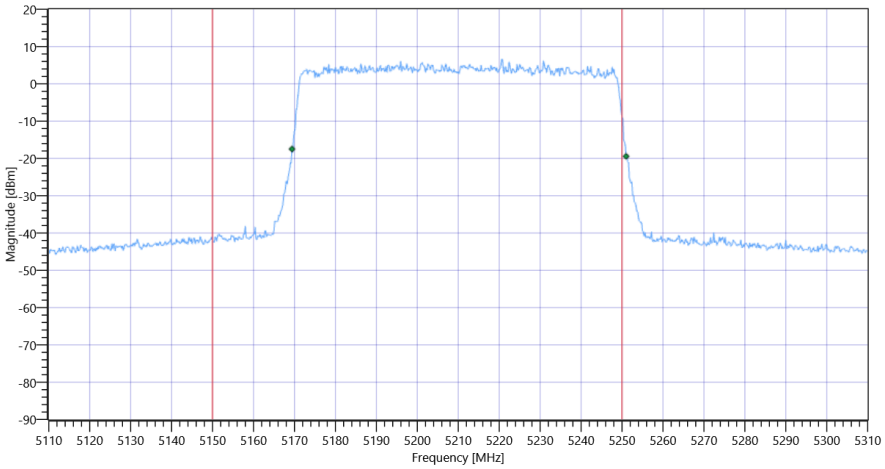
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	81.6	MHz	INFO
T1 26dB	5150.000000	---	5169.4000	MHz	PASS
T2 26dB	---	5250.000000	5251.0000	MHz	DFS required

Plot: Bandwidth only



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

Plot: Bandwidth within Band



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

General verdict	PASS

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

Test References	
TC Start	19.07.2022 11:33:40
Ambit Temp [°C] | Humidity [rel%]	26.4 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 0
Frequency mid to test	True | Freq [MHz] 5290
Frequency high to test	False | Freq [MHz] 0
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
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

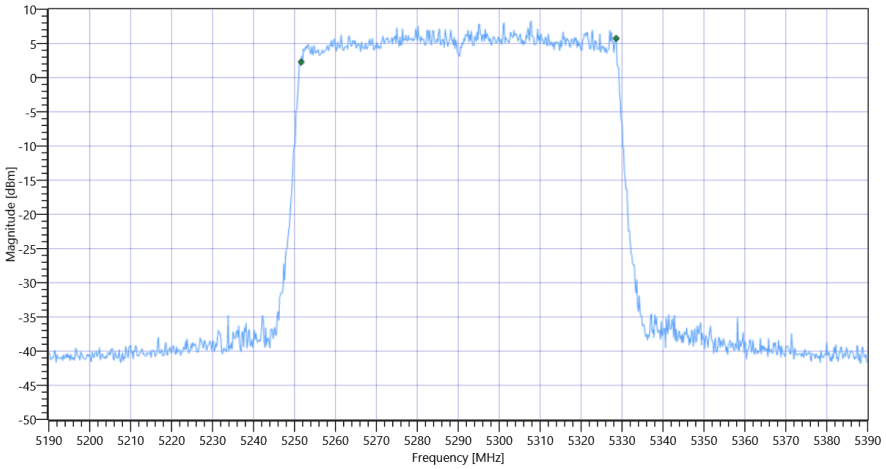
Test at TX 5290 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	7.91	dBm	INFO
Ref. Frequency	---	---	5285.800	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.91 | 18.57 | 15
Start [MHz] | Stop [MHz]	5190.000 | 5390.000
RBW [MHz] | VBW [MHz]	1.000000 | 5.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

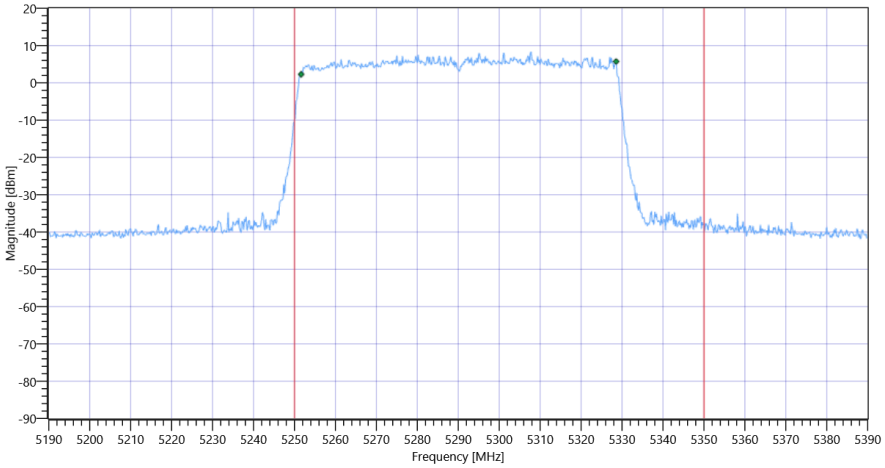
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	76.923	MHz	INFO
T1 99%	5250.000000	---	5251.6384	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5328.5614	MHz	PASS

Plot: Bandwidth only



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

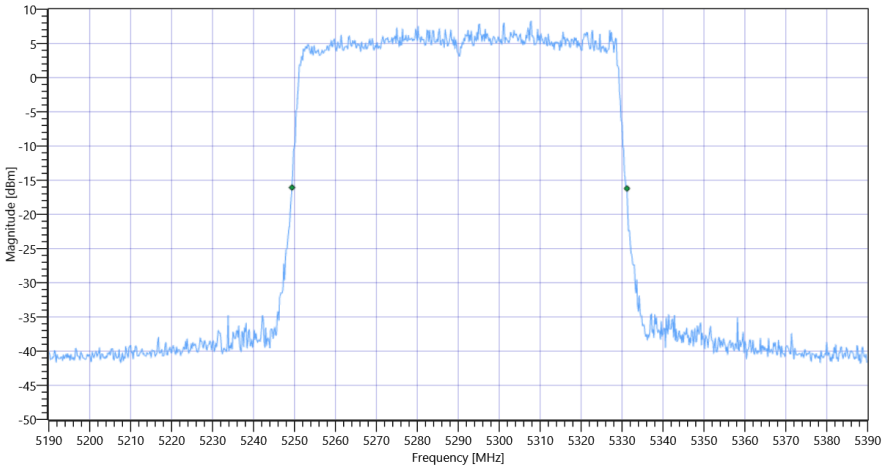
Plot: Bandwidth within Band



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

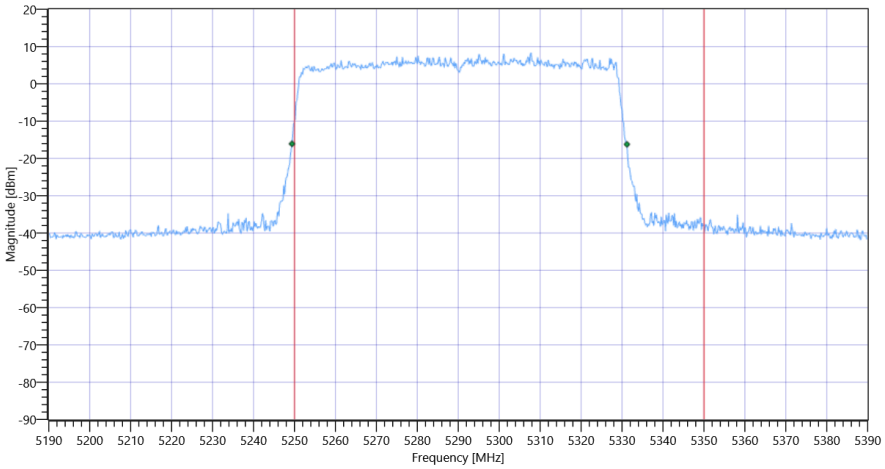
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	81.8	MHz	INFO
T1 26dB	5250.000000	---	5249.4000	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5331.2000	MHz	PASS

Plot: Bandwidth only



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

Plot: Bandwidth within Band



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

General verdict	PASS

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

Test References	
TC Start	19.07.2022 11:42:03
Ambit Temp [°C] | Humidity [rel%]	26.4 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 0
Frequency mid to test	True | Freq [MHz] 5290
Frequency high to test	False | Freq [MHz] 0
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
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

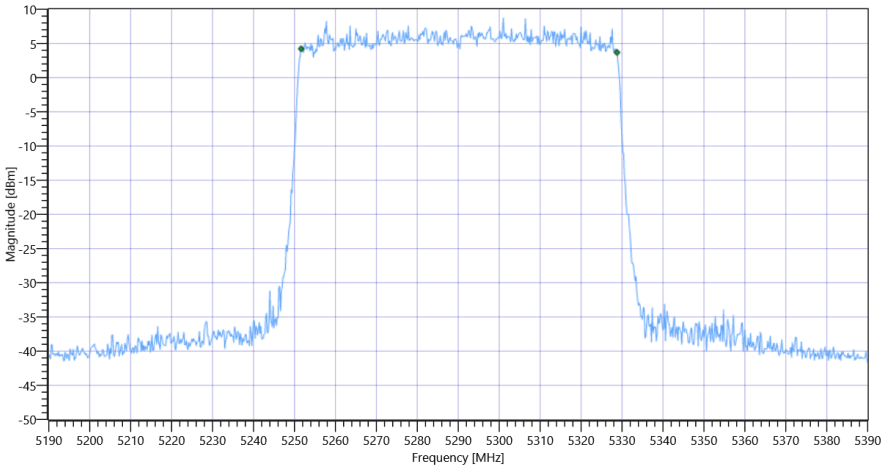
Test at TX 5290 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	7.84	dBm	INFO
Ref. Frequency	---	---	5299.790	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.84 | 18.57 | 15
Start [MHz] | Stop [MHz]	5190.000 | 5390.000
RBW [MHz] | VBW [MHz]	1.000000 | 5.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

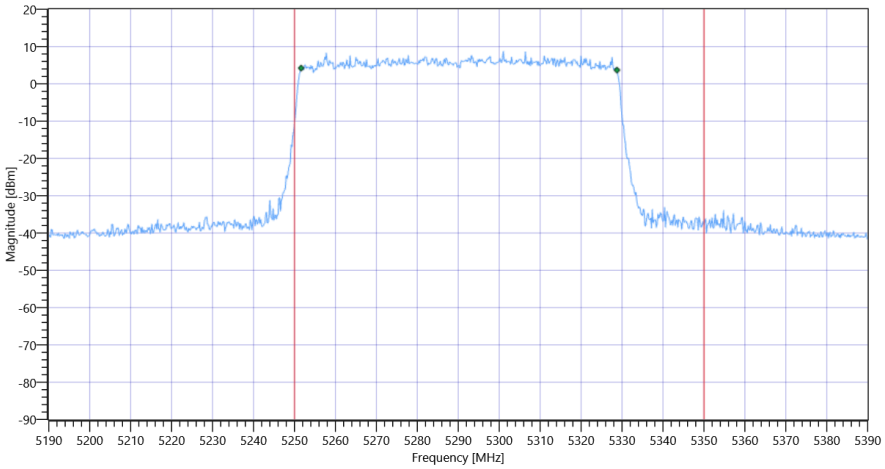
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	77.123	MHz	INFO
T1 99%	5250.000000	---	5251.6384	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5328.7612	MHz	PASS

Plot: Bandwidth only



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

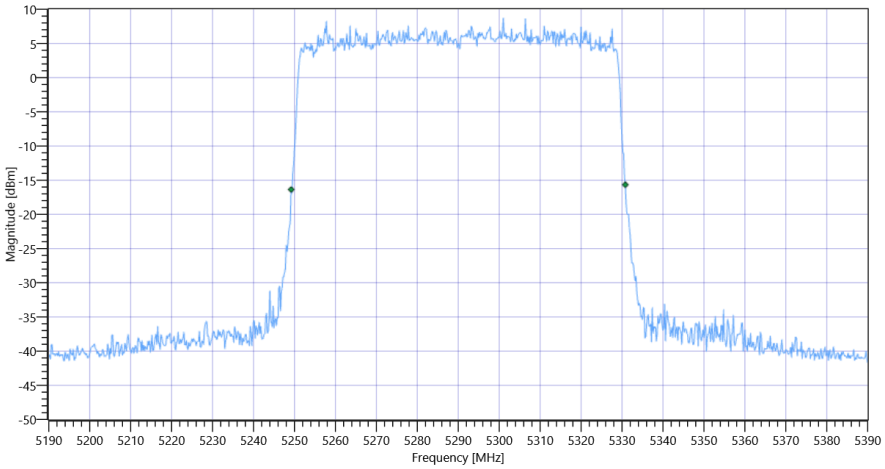
Plot: Bandwidth within Band



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

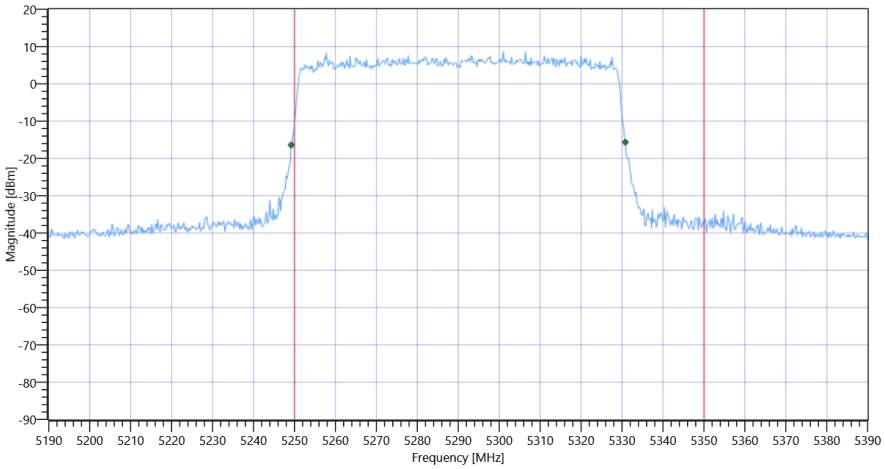
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	81.6	MHz	INFO
T1 26dB	5250.000000	---	5249.2000	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5330.8000	MHz	PASS

Plot: Bandwidth only



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

Plot: Bandwidth within Band



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

General verdict	PASS

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

Test References	
TC Start	19.07.2022 11:49:36
Ambit Temp [°C] | Humidity [rel%]	26.4 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 5530
Frequency mid to test	False | Freq [MHz] 5610
Frequency high to test	False | Freq [MHz] 5690
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
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

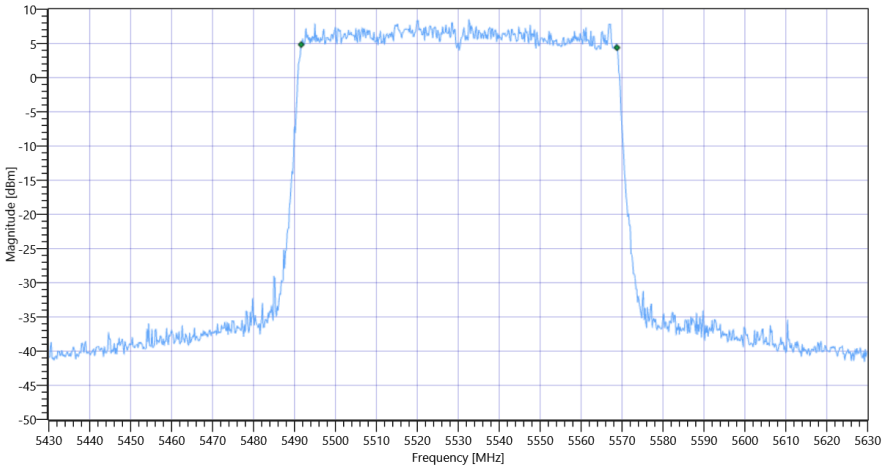
Test at TX 5530 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	6.60	dBm	INFO
Ref. Frequency	---	---	5526.400	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	14.60 | 18.67 | 15
Start [MHz] | Stop [MHz]	5430.000 | 5630.000
RBW [MHz] | VBW [MHz]	1.000000 | 5.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

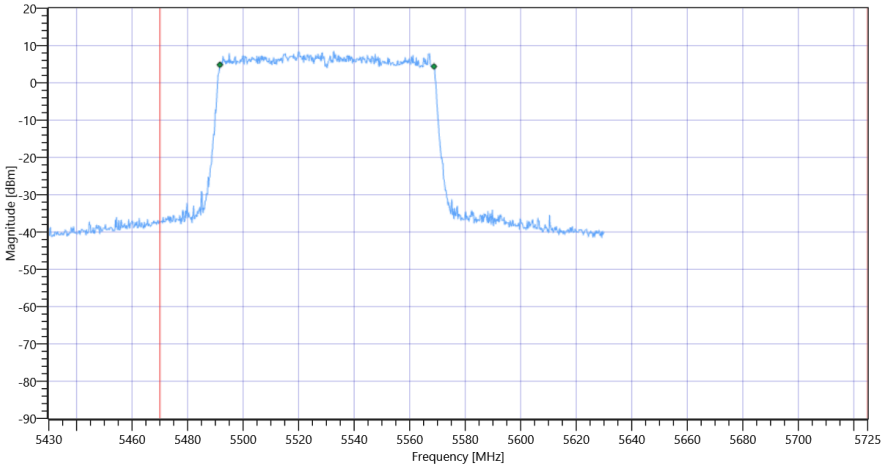
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	77.123	MHz	INFO
T1 99%	5470.000000	---	5491.6384	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5568.7612	MHz	

Plot: Bandwidth only



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

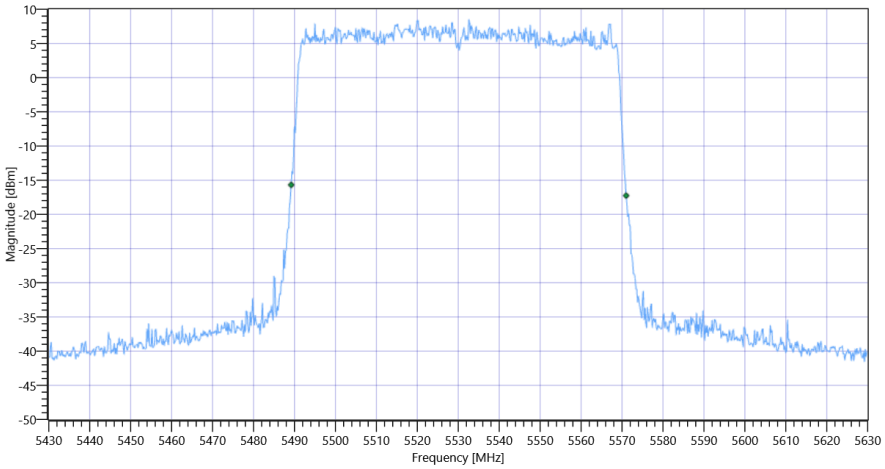
Plot: Bandwidth within Band



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

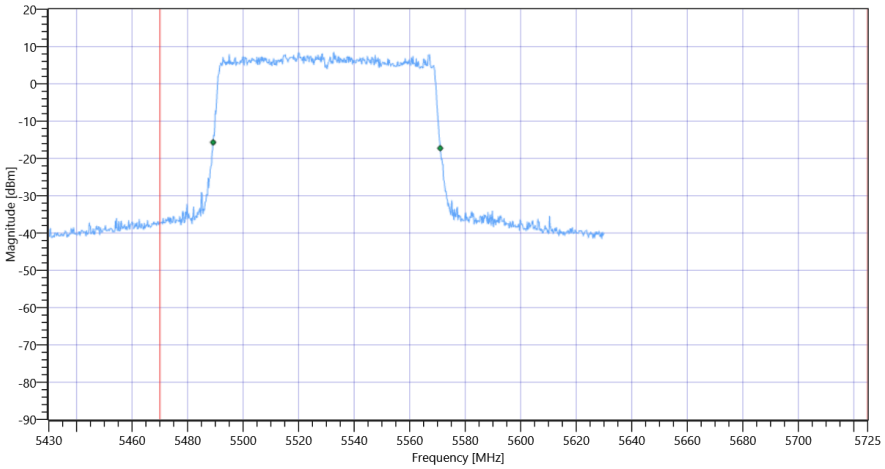
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	81.8	MHz	INFO
T1 26dB	5470.000000	---	5489.2000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5571.0000	MHz	

Plot: Bandwidth only



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

Plot: Bandwidth within Band



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

General verdict	PASS

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

Test References	
TC Start	19.07.2022 11:57:38
Ambit Temp [°C] | Humidity [rel%]	26.4 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 5530
Frequency mid to test	False | Freq [MHz] 5610
Frequency high to test	False | Freq [MHz] 5690
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
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

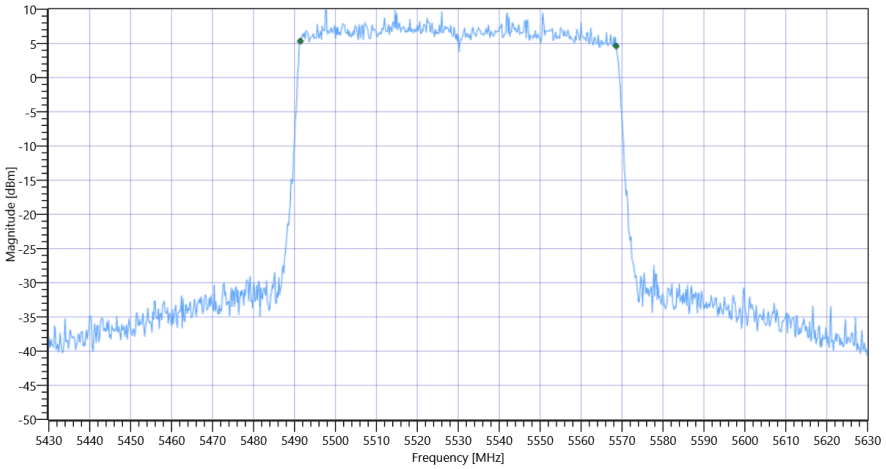
Test at TX 5530 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	8.04	dBm	INFO
Ref. Frequency	---	---	5505.620	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.04 | 18.67 | 15
Start [MHz] | Stop [MHz]	5430.000 | 5630.000
RBW [MHz] | VBW [MHz]	1.000000 | 5.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

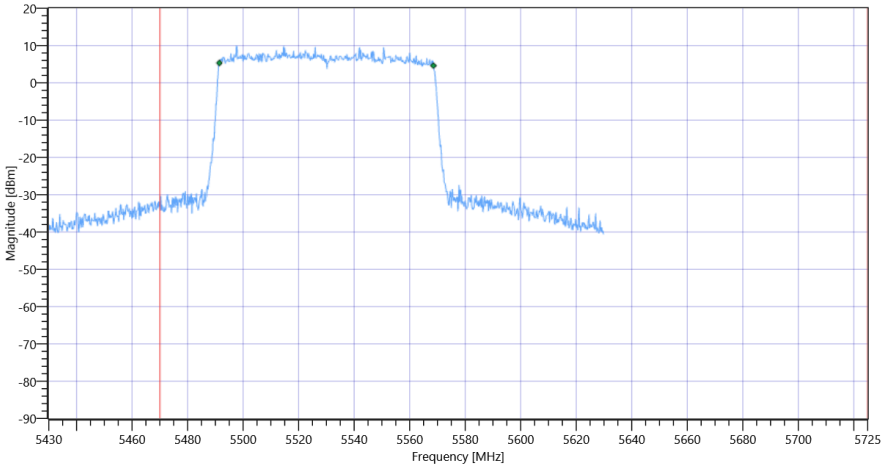
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	77.123	MHz	INFO
T1 99%	5470.000000	---	5491.4386	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5568.5614	MHz	

Plot: Bandwidth only



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

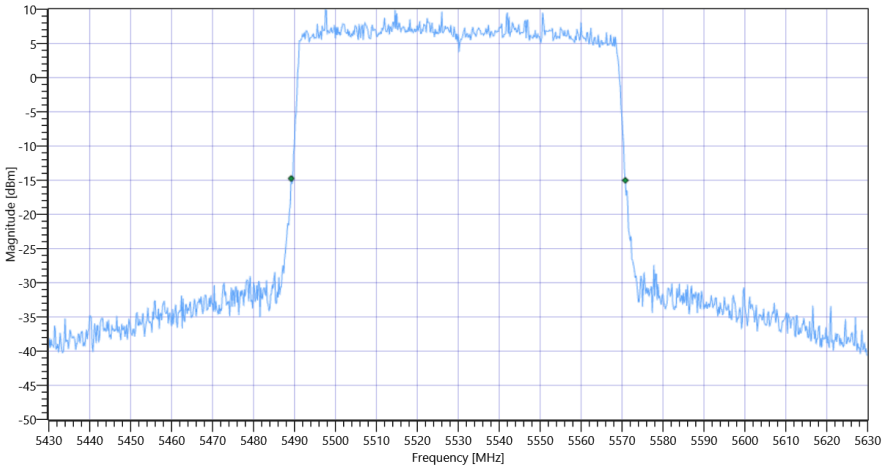
Plot: Bandwidth within Band



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

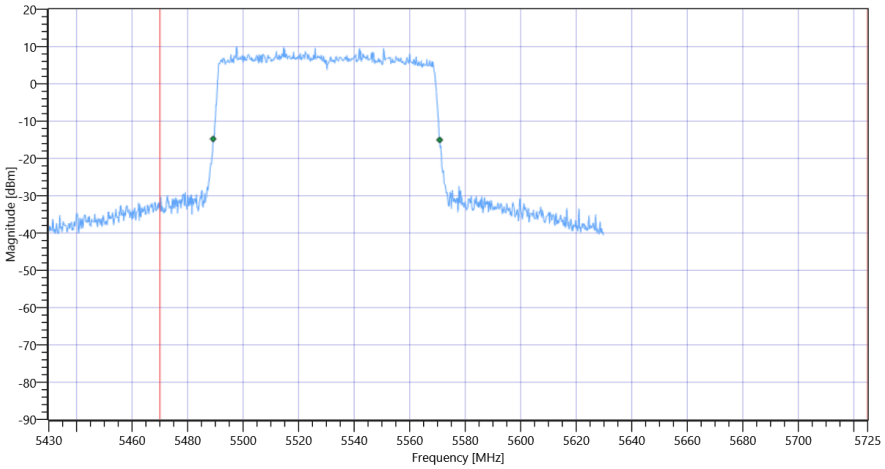
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	81.6	MHz	INFO
T1 26dB	5470.000000	---	5489.2000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5570.8000	MHz	

Plot: Bandwidth only



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

Plot: Bandwidth within Band



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

General verdict	PASS

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

Test References	
TC Start	19.07.2022 12:31:18
Ambit Temp [°C] | Humidity [rel%]	26.4 | 37
System Version	3.2.0.2
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 ax-HE80 U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 5530
Frequency mid to test	True | Freq [MHz] 5610
Frequency high to test	False | Freq [MHz] 5690
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
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

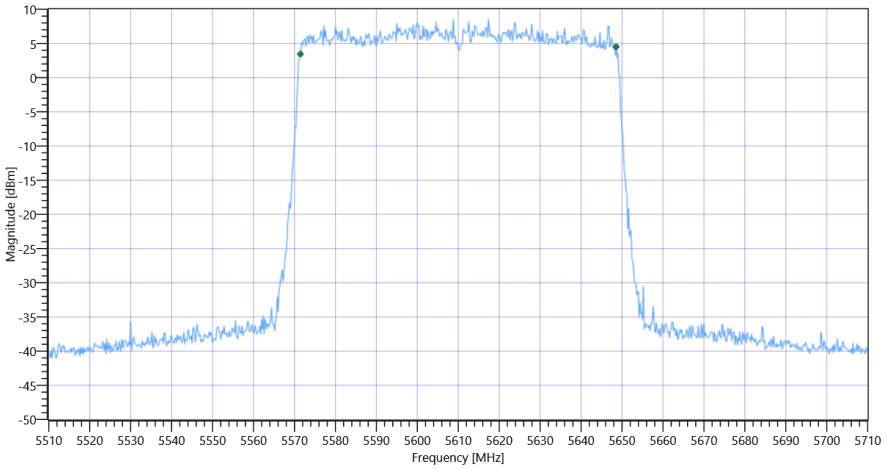
Test at TX 5610 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	6.61	dBm	INFO
Ref. Frequency	---	---	5623.590	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	14.61 | 19.05 | 15
Start [MHz] | Stop [MHz]	5510.000 | 5710.000
RBW [MHz] | VBW [MHz]	1.000000 | 5.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

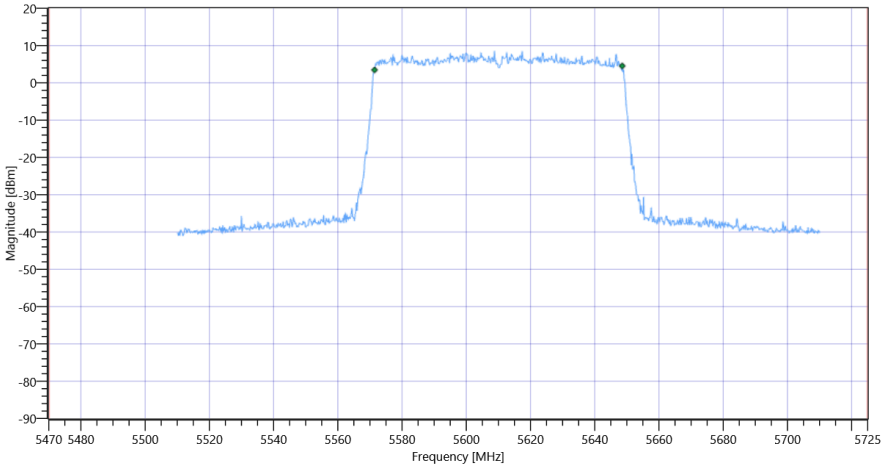
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	77.123	MHz	INFO
T1 99%	5470.000000	---	5571.4386	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5648.5614	MHz	

Plot: Bandwidth only



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

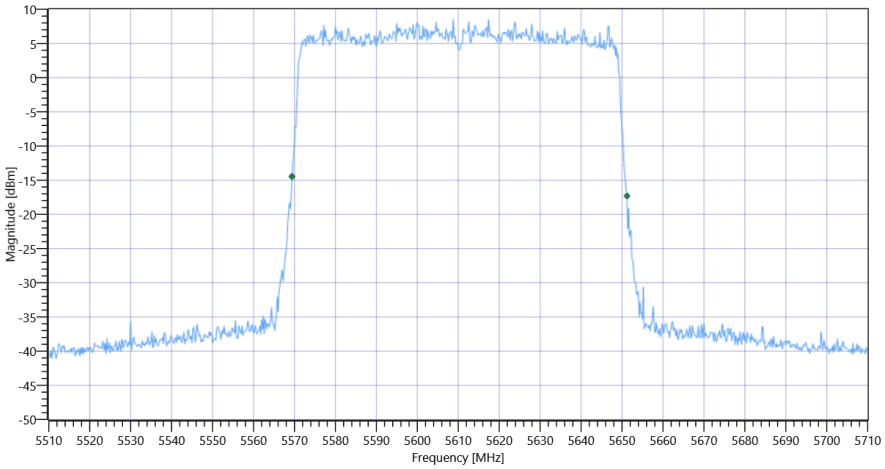
Plot: Bandwidth within Band



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

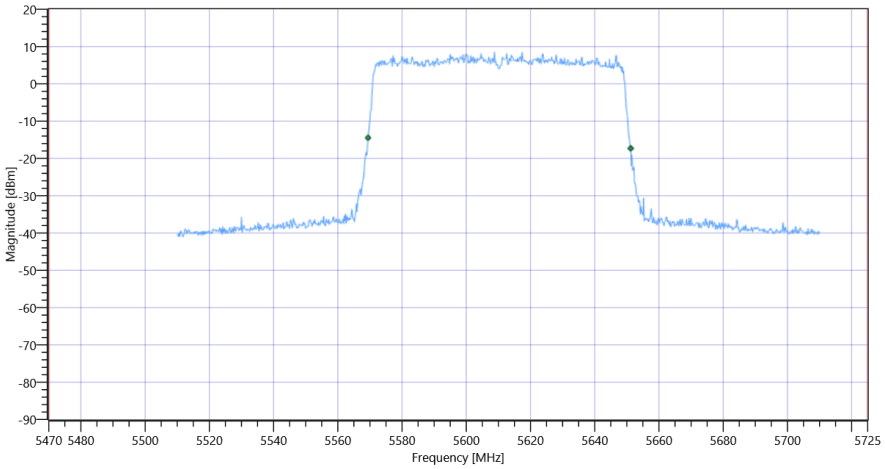
RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 20dB	---	---	81.8	MHz	INFO
T1 26dB	5470.000000	---	5569.4000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5651.2000	MHz	

Plot: Bandwidth only



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

Plot: Bandwidth within Band



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

General verdict	PASS

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

Test References	
TC Start	19.07.2022 12:38:19
Ambit Temp [°C] | Humidity [rel%]	26.5 | 37
System Version	3.2.0.2
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 ax-HE80 U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 5530
Frequency mid to test	True | Freq [MHz] 5610
Frequency high to test	False | Freq [MHz] 5690
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
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

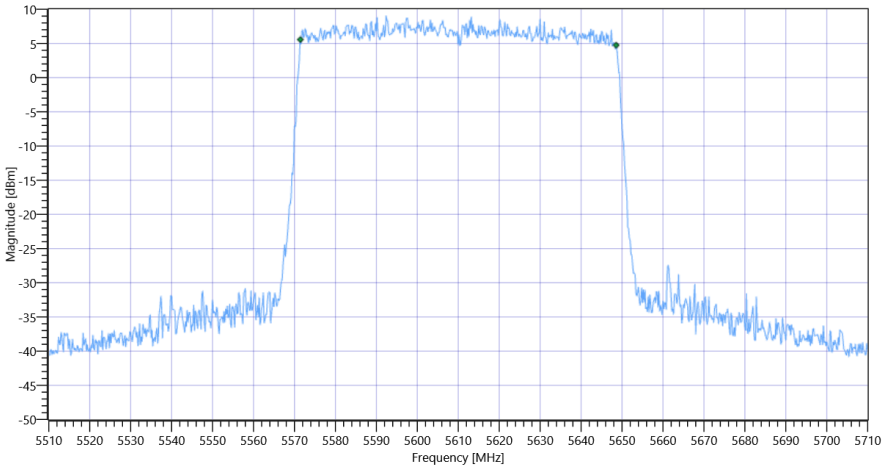
Test at TX 5610 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	7.34	dBm	INFO
Ref. Frequency	---	---	5598.210	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.34 | 19.05 | 15
Start [MHz] | Stop [MHz]	5510.000 | 5710.000
RBW [MHz] | VBW [MHz]	1.000000 | 5.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

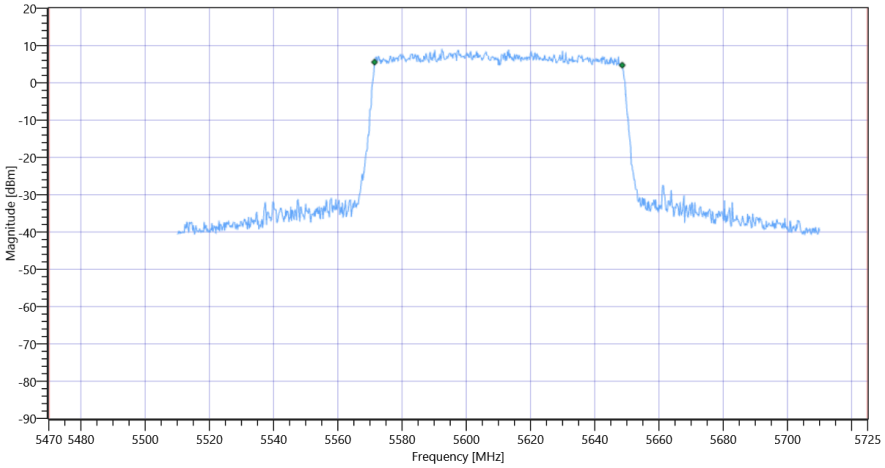
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	77.123	MHz	INFO
T1 99%	5470.000000	---	5571.4386	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5648.5614	MHz	

Plot: Bandwidth only



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

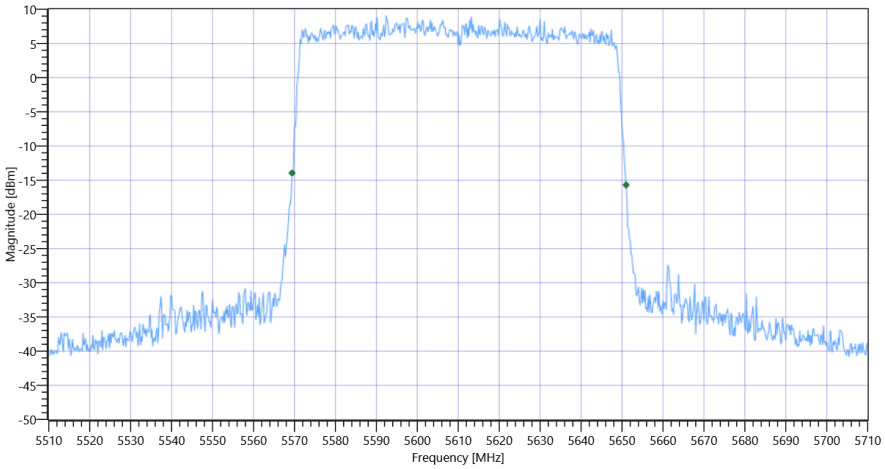
Plot: Bandwidth within Band



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

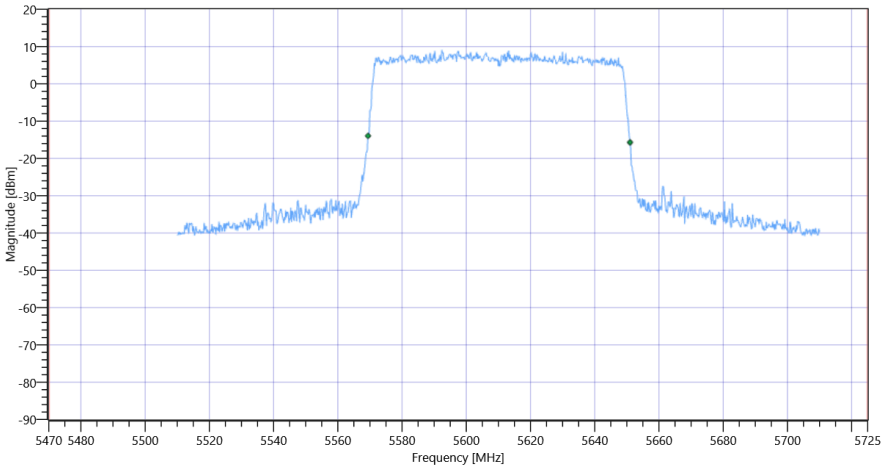
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	81.6	MHz	INFO
T1 26dB	5470.000000	---	5569.4000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5651.0000	MHz	

Plot: Bandwidth only



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

Plot: Bandwidth within Band



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

General verdict	PASS

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

Test References	
TC Start	19.07.2022 12:50:36
Ambit Temp [°C] | Humidity [rel%]	26.5 | 37
System Version	3.2.0.2
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 ax-HE80 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 0
Frequency mid to test	True | Freq [MHz] 5775
Frequency high to test	False | Freq [MHz] 0
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
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

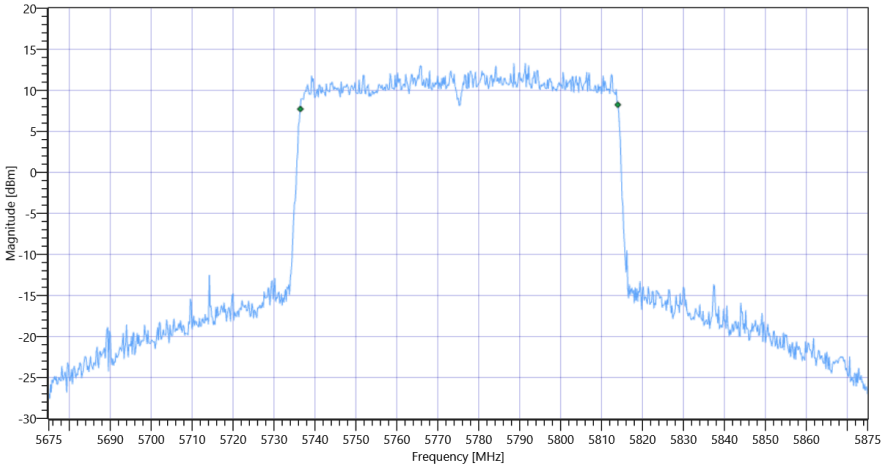
Test at TX 5775 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.99	dBm	INFO
Ref. Frequency	---	---	5801.170	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.99 | 18.76 | 20
Start [MHz] | Stop [MHz]	5675.000 | 5875.000
RBW [MHz] | VBW [MHz]	1.000000 | 5.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

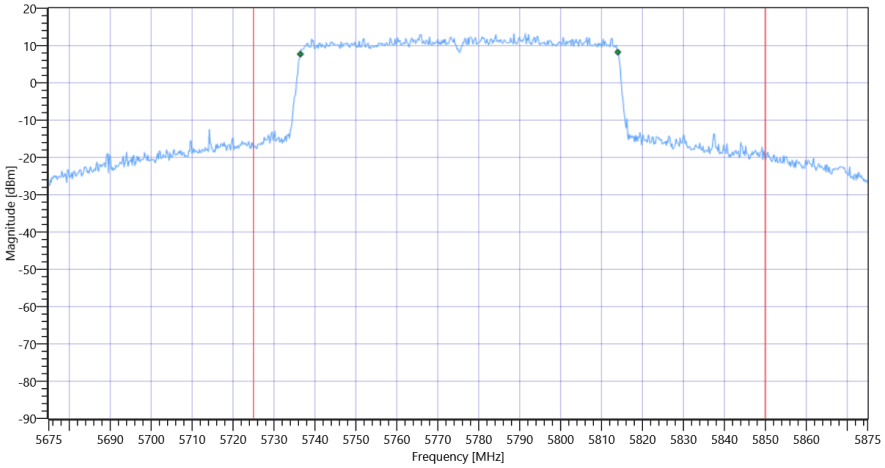
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	77.522	MHz	INFO
T1 99%	5725.000000	---	5736.4386	MHz	PASS
T2 99%	---	5850.000000	5813.9610	MHz	PASS

Plot: Bandwidth only



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

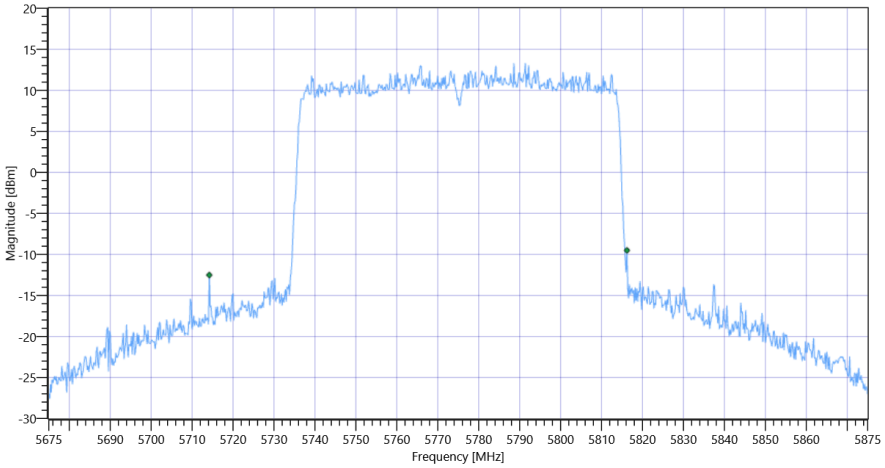
Plot: Bandwidth within Band



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

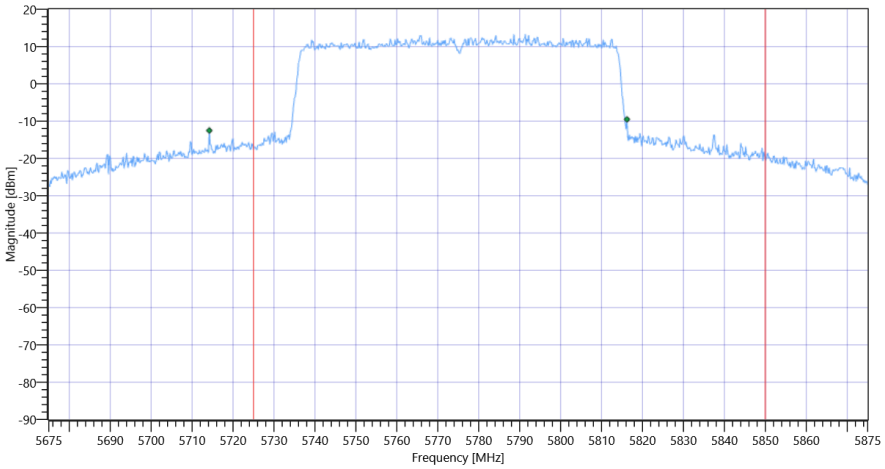
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	102	MHz	INFO
T1 26dB	5725.000000	---	5714.2000	MHz	DFS required
T2 26dB	---	5850.000000	5816.2000	MHz	PASS

Plot: Bandwidth only



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

Plot: Bandwidth within Band



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

General verdict	PASS

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

Test References	
TC Start	19.07.2022 13:02:42
Ambit Temp [°C] | Humidity [rel%]	26.6 | 37
System Version	3.2.0.2
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 ax-HE80 U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 0
Frequency mid to test	True | Freq [MHz] 5775
Frequency high to test	False | Freq [MHz] 0
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
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

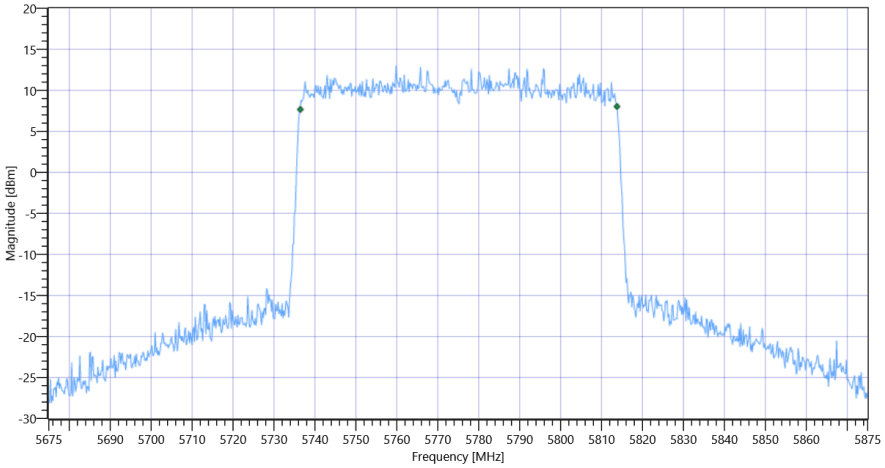
Test at TX 5775 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.32	dBm	INFO
Ref. Frequency	---	---	5763.410	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.32 | 18.76 | 15
Start [MHz] | Stop [MHz]	5675.000 | 5875.000
RBW [MHz] | VBW [MHz]	1.000000 | 5.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

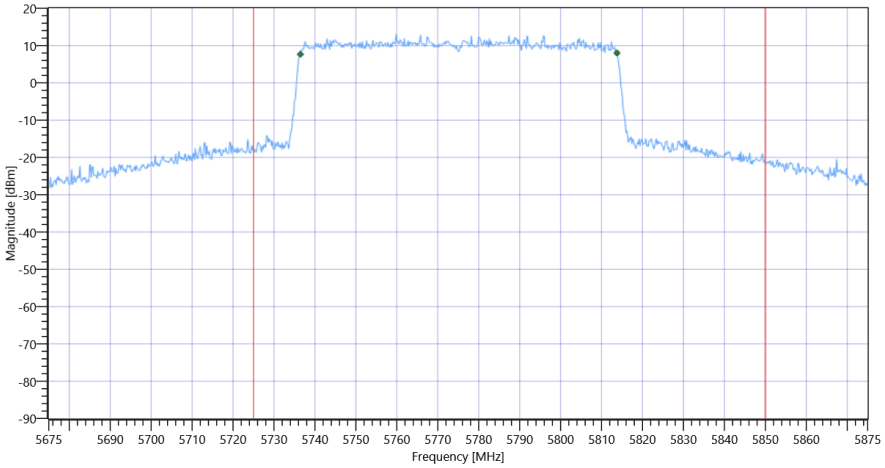
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	77.323	MHz	INFO
T1 99%	5725.000000	---	5736.4386	MHz	PASS
T2 99%	---	5850.000000	5813.7612	MHz	PASS

Plot: Bandwidth only



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

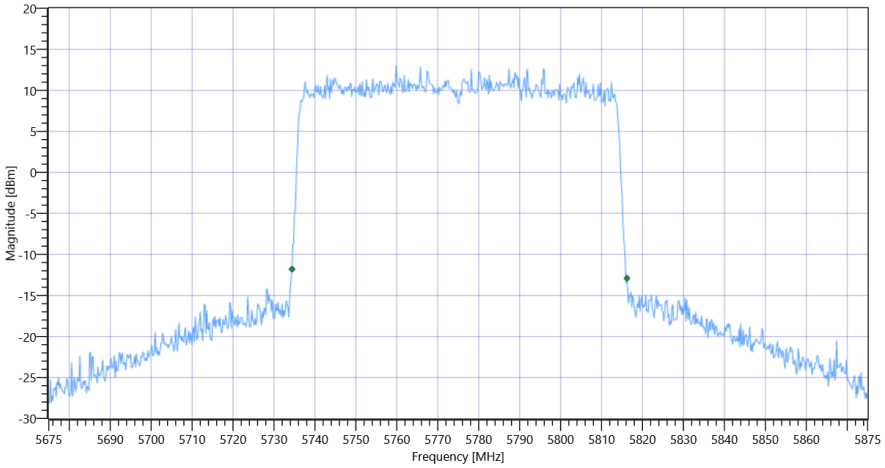
Plot: Bandwidth within Band



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

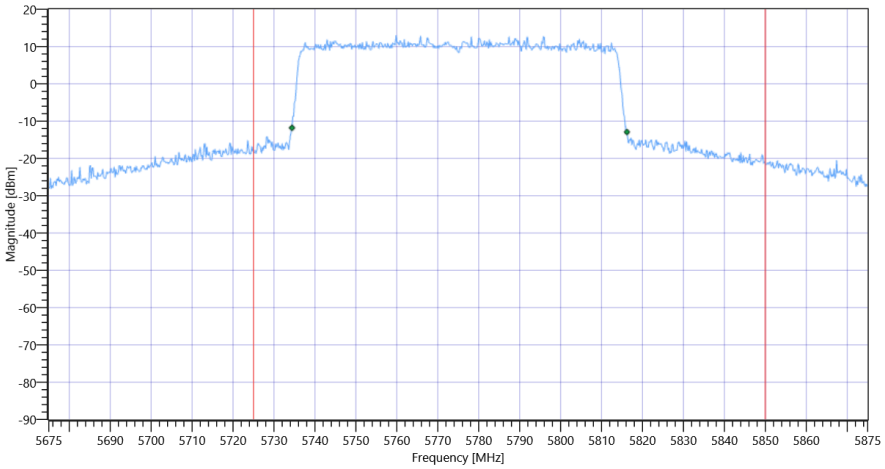
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	81.8	MHz	INFO
T1 26dB	5725.000000	---	5734.4000	MHz	PASS
T2 26dB	---	5850.000000	5816.2000	MHz	PASS

Plot: Bandwidth only



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

Plot: Bandwidth within Band



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

General verdict	PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-1

Test References	
TC Start	19.07.2022 11:11:59
Ambit Temp [°C] | Humidity [rel%]	26.3 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 0
Frequency mid to test	True | Freq [MHz] 5210
Frequency high to test	False | Freq [MHz] 0
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

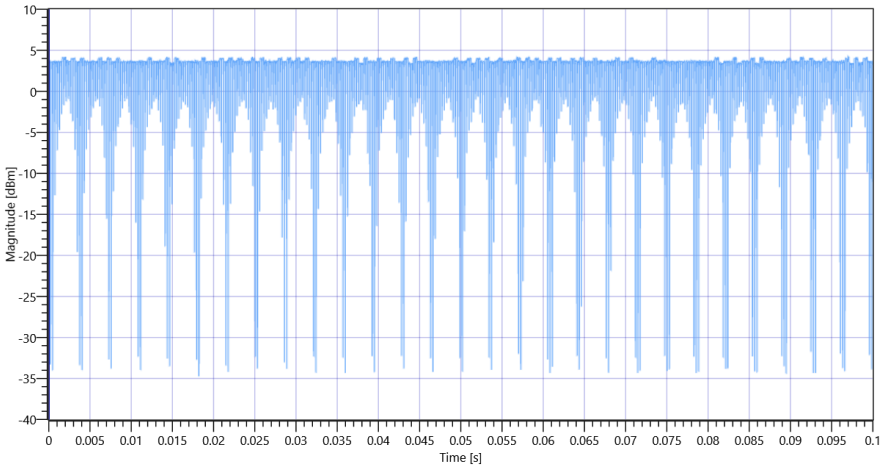
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 5210 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	4.05	dBm	INFO
Ref. Frequency	---	---	5201.010	MHz	INFO

Evaluation max. Duty Cycle

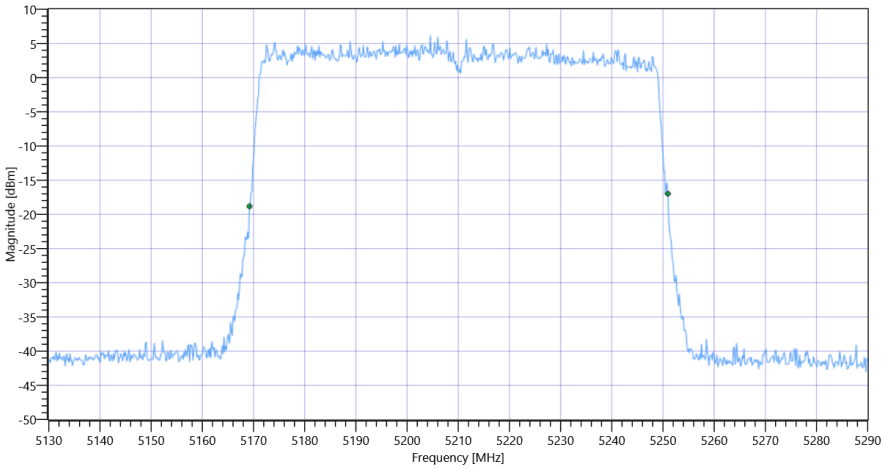
Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:166					
Duty Cycle (Burst Ratio) max	---	---	0.969	---	INFO
Duty Cycle max	---	---	0.137	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.727	---	INFO
Duty Cycle min	---	---	1.385	dB	INFO
Max TX Burst Length	---	---	2.375	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-1 5210 MHz - DutyCycle

Evaluation Bandwidth

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	81.76	MHz	INFO
T1 26dB	---	---	5169.2000	MHz	INFO
T2 26dB	---	---	5250.9600	MHz	INFO

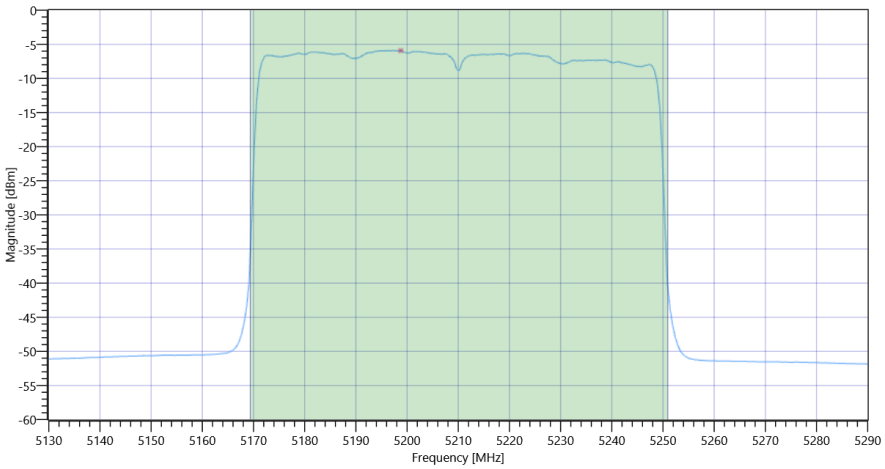


FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-1_BW

Maximum Output Power

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.05 | 17.99 | 15
Start [MHz] | Stop [MHz]	5130.000 | 5290.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	107000 | 1 | 320 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	11.86	dBm	INFO
Duty Cycle Correction	---	---	1.38	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.24	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	30.13	13.24	dBm	not applicable



FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-1 Max OP and PSD

Power Spectral Density

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-5.92	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.38	dB	INFO
Power Spectral Density DC corrected	---	11	-4.54	dBm/1MHz	PASS

General verdict	PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-1

Test References	
TC Start	19.07.2022 11:19:29
Ambit Temp [°C] | Humidity [rel%]	26.3 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 0
Frequency mid to test	True | Freq [MHz] 5210
Frequency high to test	False | Freq [MHz] 0
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

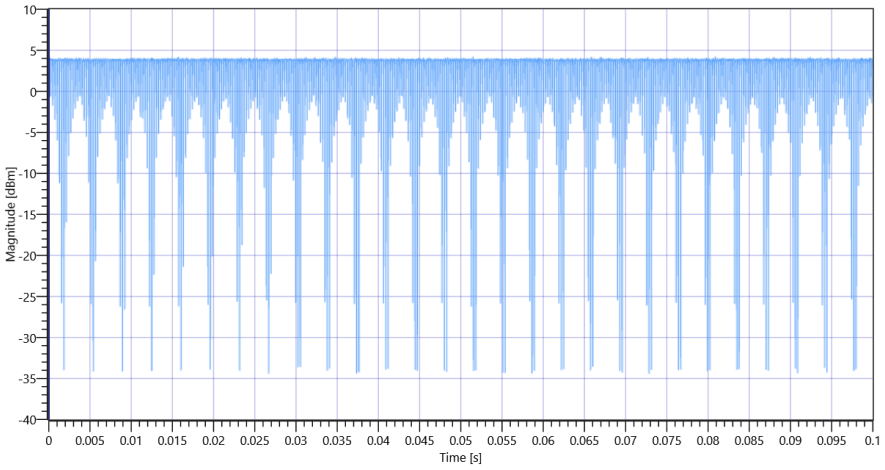
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 5210 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	4.52	dBm	INFO
Ref. Frequency	---	---	5227.180	MHz	INFO

Evaluation max. Duty Cycle

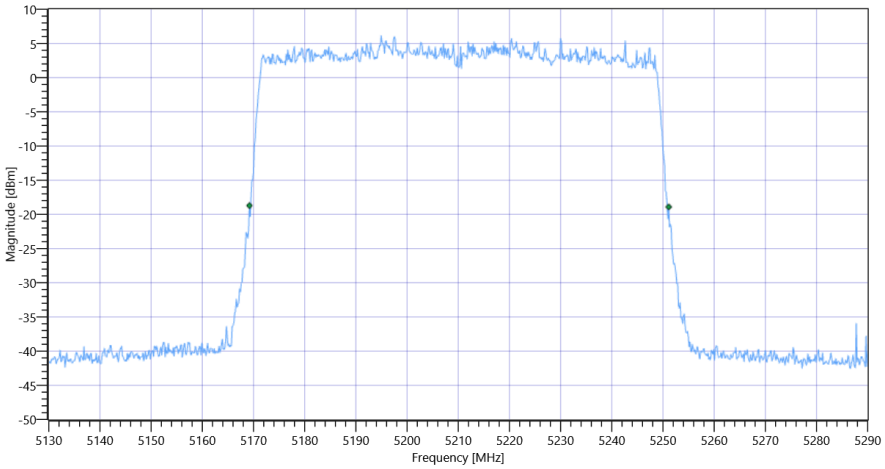
Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:156					
Duty Cycle (Burst Ratio) max	---	---	0.969	---	INFO
Duty Cycle max	---	---	0.137	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.727	---	INFO
Duty Cycle min	---	---	1.385	dB	INFO
Max TX Burst Length	---	---	2.375	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-1 5210 MHz - DutyCycle

Evaluation Bandwidth

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	81.92	MHz	INFO
T1 26dB	---	---	5169.2000	MHz	INFO
T2 26dB	---	---	5251.1200	MHz	INFO

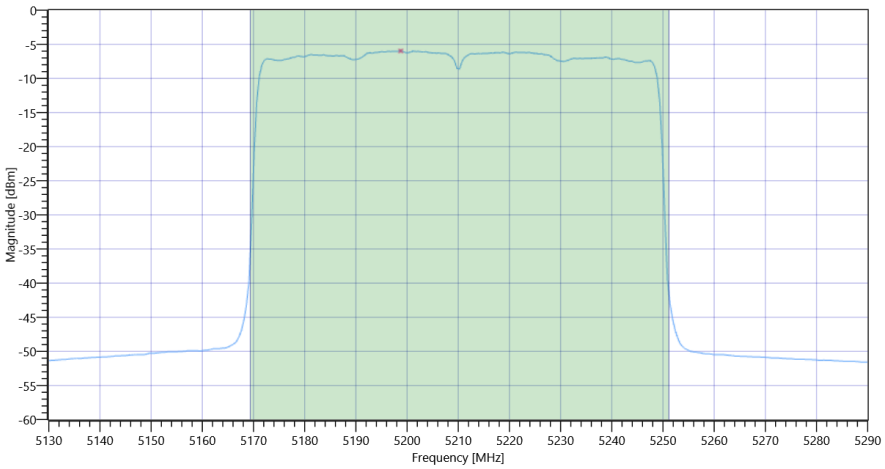


FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-1_BW

Maximum Output Power

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.52 | 17.99 | 15
Start [MHz] | Stop [MHz]	5130.000 | 5290.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	107000 | 1 | 320 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	11.91	dBm	INFO
Duty Cycle Correction	---	---	1.38	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.29	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	30.13	13.29	dBm	not applicable



FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-1 Max OP and PSD

Power Spectral Density

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-5.96	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.38	dB	INFO
Power Spectral Density DC corrected	---	11	-4.58	dBm/1MHz	PASS

General verdict	PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2A

Test References	
TC Start	19.07.2022 11:28:10
Ambit Temp [°C] | Humidity [rel%]	26.3 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 0
Frequency mid to test	True | Freq [MHz] 5290
Frequency high to test	False | Freq [MHz] 0
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

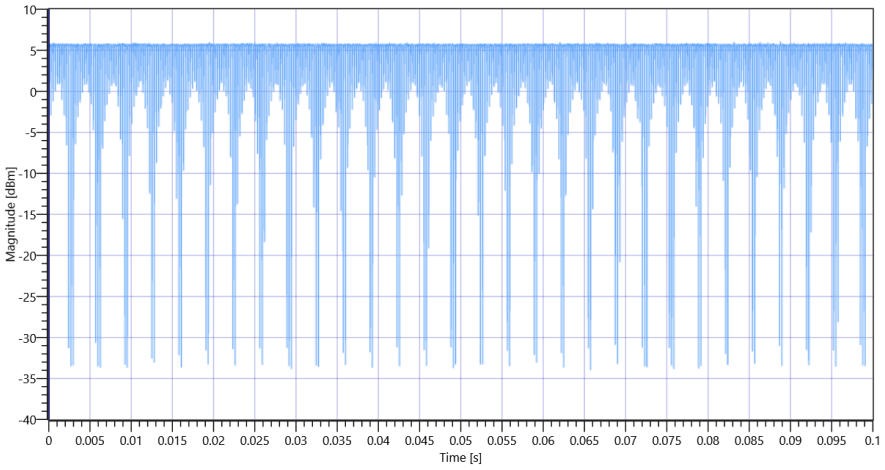
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 5290 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	6.16	dBm	INFO
Ref. Frequency	---	---	5309.180	MHz	INFO

Evaluation max. Duty Cycle

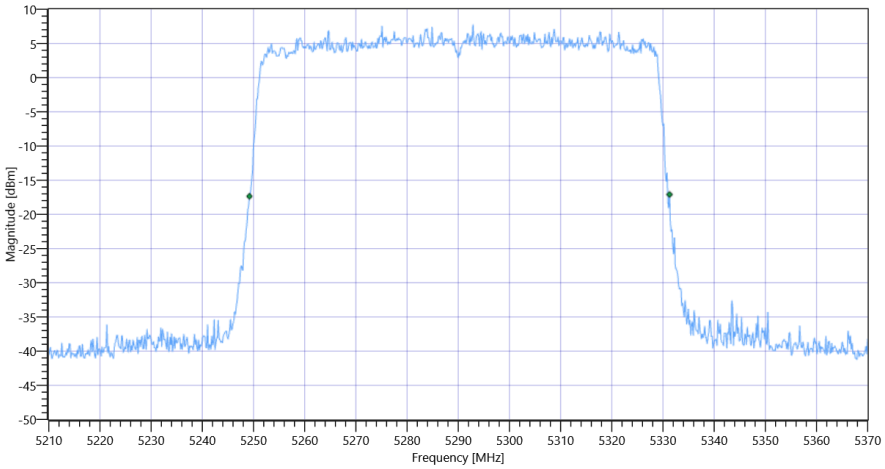
Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:156					
Duty Cycle (Burst Ratio) max	---	---	0.969	---	INFO
Duty Cycle max	---	---	0.137	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.727	---	INFO
Duty Cycle min	---	---	1.385	dB	INFO
Max TX Burst Length	---	---	2.375	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2A 5290 MHz - DutyCycle

Evaluation Bandwidth

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	82.08	MHz	INFO
T1 26dB	---	---	5249.2000	MHz	INFO
T2 26dB	---	---	5331.2800	MHz	INFO

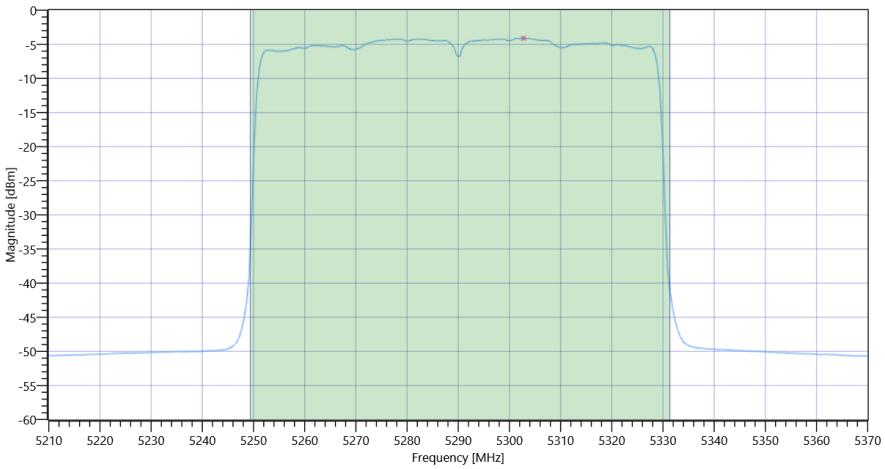


FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2A_BW

Maximum Output Power

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.16 | 18.57 | 15
Start [MHz] | Stop [MHz]	5210.000 | 5370.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	107000 | 1 | 320 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.69	dBm	INFO
Duty Cycle Correction	---	---	1.38	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	15.07	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	30.14	15.07	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2A Max OP and PSD

Power Spectral Density

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-4.12	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.38	dB	INFO
Power Spectral Density DC corrected	---	11	-2.74	dBm/1MHz	PASS

General verdict	PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2A

Test References	
TC Start	19.07.2022 11:36:32
Ambit Temp [°C] | Humidity [rel%]	26.4 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 0
Frequency mid to test	True | Freq [MHz] 5290
Frequency high to test	False | Freq [MHz] 0
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

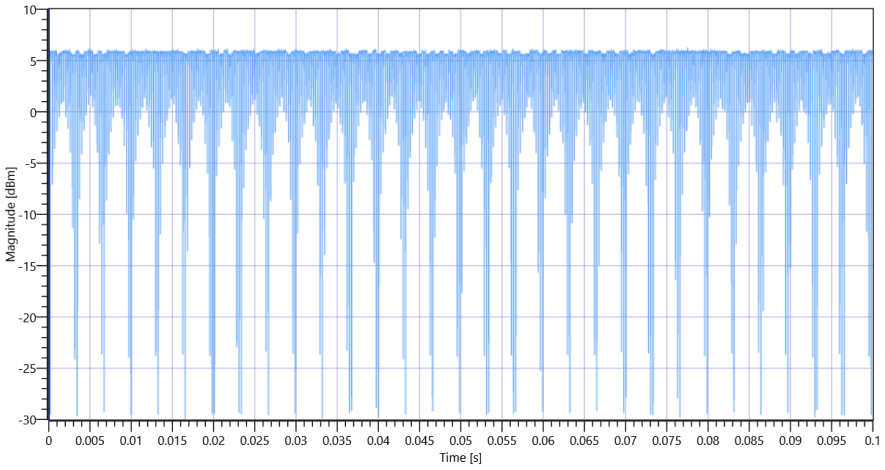
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 5290 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	7.51	dBm	INFO
Ref. Frequency	---	---	5316.570	MHz	INFO

Evaluation max. Duty Cycle

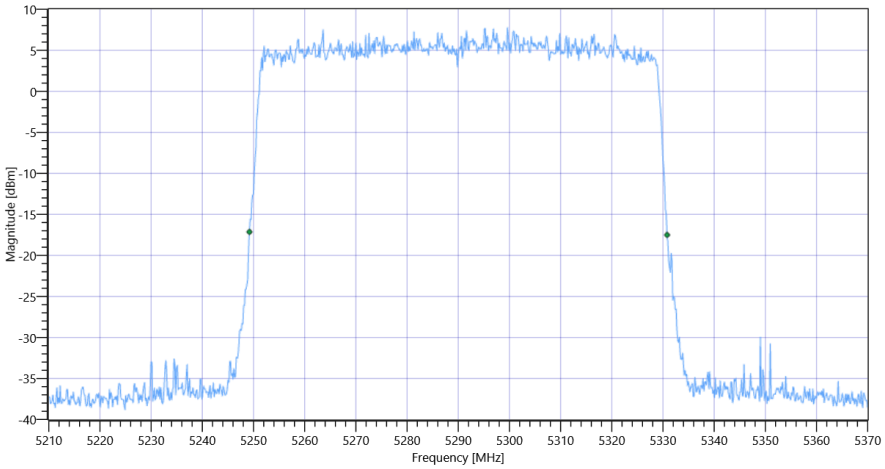
Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:156					
Duty Cycle (Burst Ratio) max	---	---	0.969	---	INFO
Duty Cycle max	---	---	0.137	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.727	---	INFO
Duty Cycle min	---	---	1.385	dB	INFO
Max TX Burst Length	---	---	2.375	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2A 5290 MHz - DutyCycle

Evaluation Bandwidth

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	81.6	MHz	INFO
T1 26dB	---	---	5249.2000	MHz	INFO
T2 26dB	---	---	5330.8000	MHz	INFO

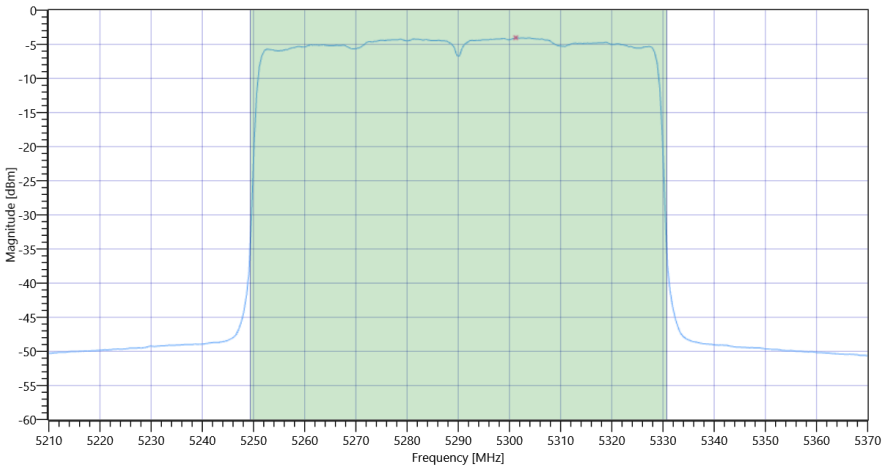


FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2A_BW

Maximum Output Power

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	19.51 | 18.57 | 15
Start [MHz] | Stop [MHz]	5210.000 | 5370.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	107000 | 1 | 320 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.77	dBm	INFO
Duty Cycle Correction	---	---	1.38	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	15.15	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	30.12	15.15	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2A Max OP and PSD

Power Spectral Density

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-4.03	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.38	dB	INFO
Power Spectral Density DC corrected	---	11	-2.65	dBm/1MHz	PASS

General verdict	PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C

Test References	
TC Start	19.07.2022 11:44:13
Ambit Temp [°C] | Humidity [rel%]	26.4 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 5530
Frequency mid to test	False | Freq [MHz] 5610
Frequency high to test	False | Freq [MHz] 5690
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

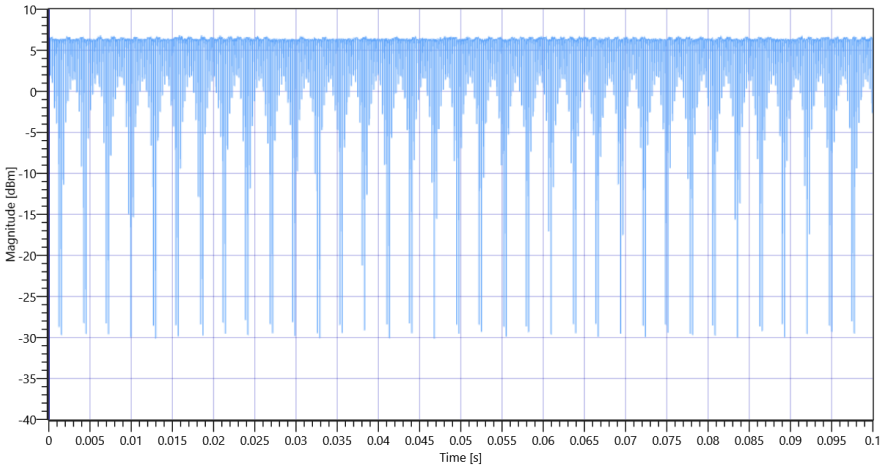
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 5530 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	7.33	dBm	INFO
Ref. Frequency	---	---	5499.230	MHz	INFO

Evaluation max. Duty Cycle

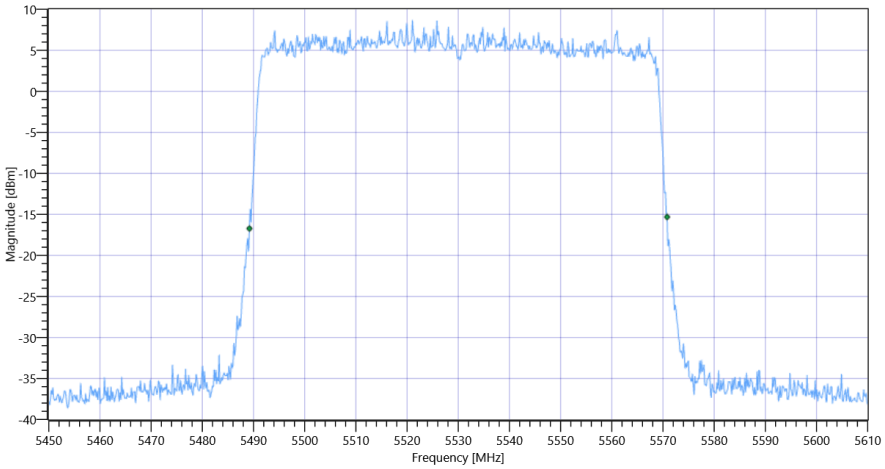
Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:155					
Duty Cycle (Burst Ratio) max	---	---	0.966	---	INFO
Duty Cycle max	---	---	0.15	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.727	---	INFO
Duty Cycle min	---	---	1.385	dB	INFO
Max TX Burst Length	---	---	2.1	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C 5530 MHz - DutyCycle

Evaluation Bandwidth

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	81.6	MHz	INFO
T1 26dB	---	---	5489.2000	MHz	INFO
T2 26dB	---	---	5570.8000	MHz	INFO

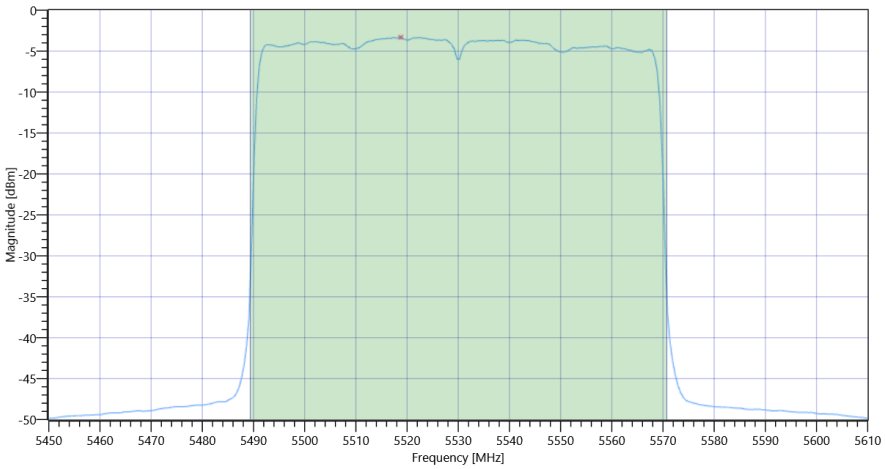


FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	19.33 | 18.67 | 15
Start [MHz] | Stop [MHz]	5450.000 | 5610.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	107000 | 1 | 320 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	14.49	dBm	INFO
Duty Cycle Correction	---	---	1.38	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	15.87	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	30.12	15.87	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C Max OP and PSD

Power Spectral Density

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-3.32	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.38	dB	INFO
Power Spectral Density DC corrected	---	11	-1.94	dBm/1MHz	PASS

General verdict	PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C

Test References	
TC Start	19.07.2022 11:52:14
Ambit Temp [°C] | Humidity [rel%]	26.4 | 38
System Version	3.2.0.2
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 ax-HE80 U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ax-HE80
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 5530
Frequency mid to test	False | Freq [MHz] 5610
Frequency high to test	False | Freq [MHz] 5690
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

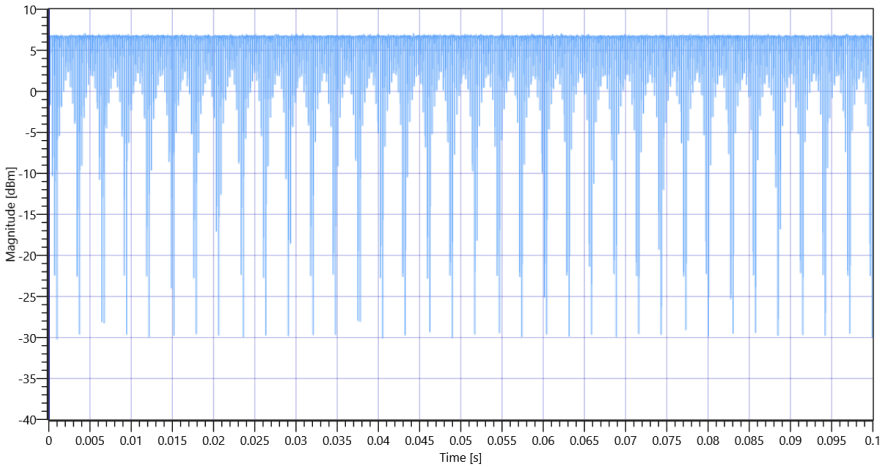
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 5530 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	7.21	dBm	INFO
Ref. Frequency	---	---	5517.010	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:155					
Duty Cycle (Burst Ratio) max	---	---	0.966	---	INFO
Duty Cycle max	---	---	0.15	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.727	---	INFO
Duty Cycle min	---	---	1.385	dB	INFO
Max TX Burst Length	---	---	2.1	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ax-HE80 U-NII-2C 5530 MHz - DutyCycle

Evaluation Bandwidth

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	81.28	MHz	INFO
T1 26dB	---	---	5489.3600	MHz	INFO
T2 26dB	---	---	5570.6400	MHz	INFO