Measurement Results

1-0397/20-02-14_log2_conducted

Test logging

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2021.03.19 12:50:27 +01'00'

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Table of Content

EUT Summary

IUT DEFINITION & Common settings	
Manufacturer	Digi International Inc.
Type	ConnectCore 8M Nano SoM
Serial No. | Setup No.	8M DVK 054 (55002060-01 AS47102.0009) | 1
SW Version | HW Version	82004426 | 55002070-xx
Comment 1 | 2	|
Tlow | Tmid | Thigh [°C]	-40 | 22 | 85
Vlow | Vmid | Vhigh [V] @Imax [A]	4.5 | 5 | 5.5 @1
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.6

IUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No

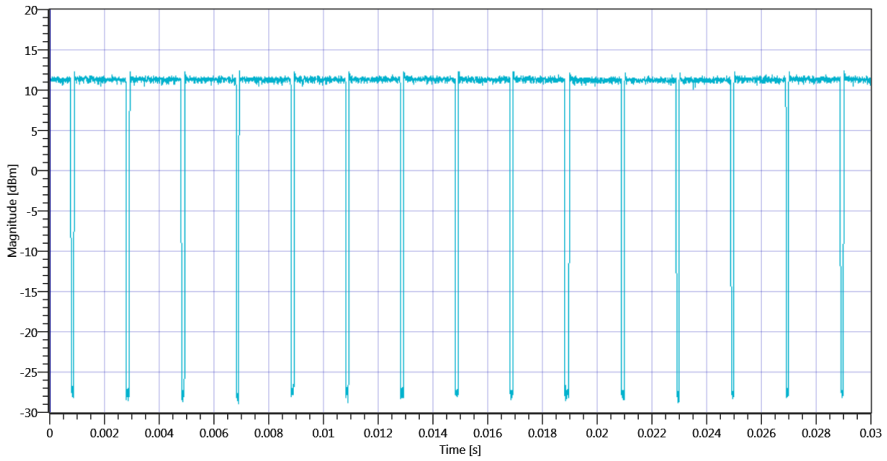
1. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1

Test References	
TC Start	06.11.2020 09:31:49
Ambit Temp [°C] | Humidity [rel%]	24.6 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

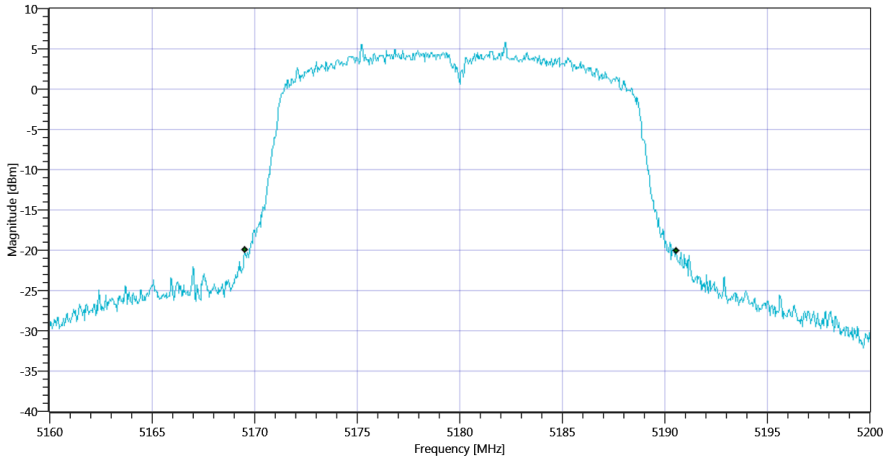
Test at TX 5180 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.916	---	INFO
Duty Cycle min	---	---	0.381	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.173	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 5180 MHz - DutyCycle_06112020_093205.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.04	MHz	INFO
T1 26dB	---	---	5169.5200	MHz	INFO
T2 26dB	---	---	5190.5600	MHz	INFO

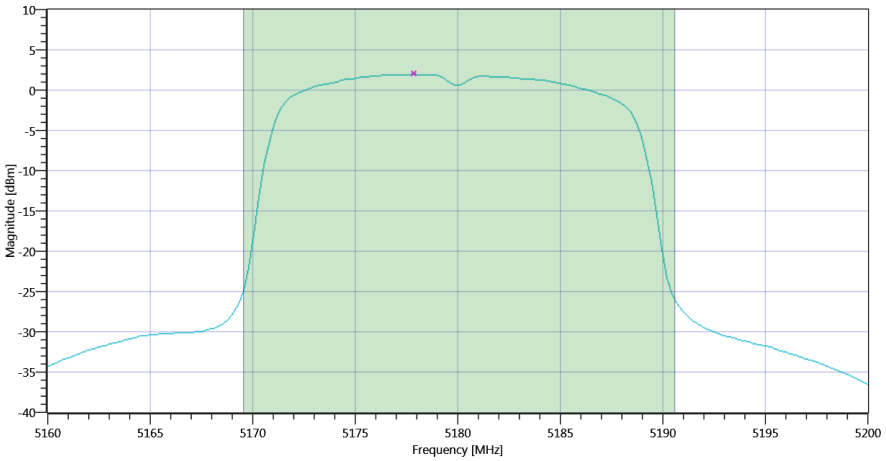


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 BW_06112020_093217.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.85 | 18.86 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	13.12	dBm	INFO
Duty Cycle Correction	---	---	0.38	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.5	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.23	13.5	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD_06112020_093241.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	1.95	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.38	dB	INFO
Power Spectral Density DC corrected	---	11	2.33	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:32:43 / RT: 53 s	PASS

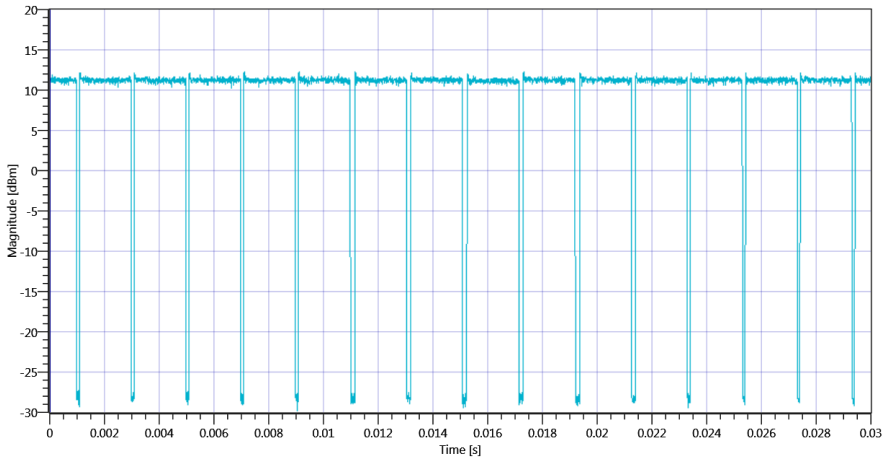
2. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1

Test References	
TC Start	06.11.2020 09:36:32
Ambit Temp [°C] | Humidity [rel%]	24.6 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	True | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

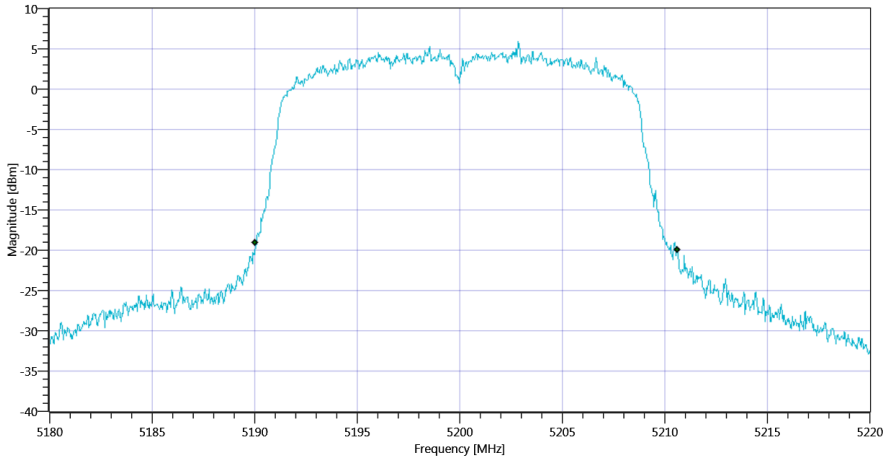
Test at TX 5200 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 5200 MHz - DutyCycle_06112020_093649.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.6	MHz	INFO
T1 26dB	---	---	5190.0400	MHz	INFO
T2 26dB	---	---	5210.6400	MHz	INFO

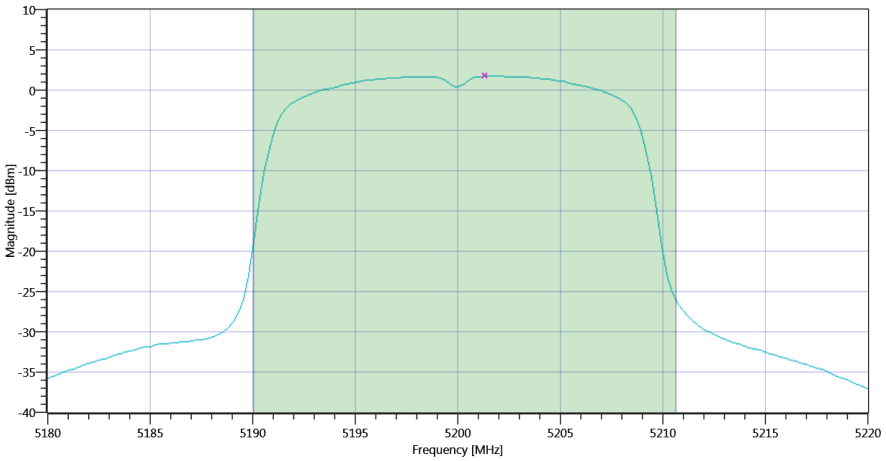


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 BW_06112020_093657.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.74 | 19.04 | 20
Start [MHz] | Stop [MHz]	5180.000 | 5220.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	12.98	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.39	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.14	13.39	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD_06112020_093721.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	1.73	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	11	2.14	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:37:23 / RT: 50 s	PASS

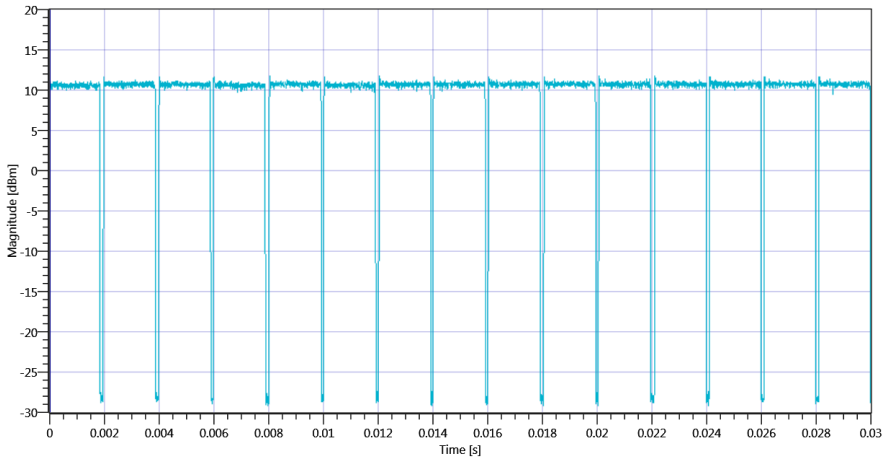
3. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1

Test References	
TC Start	06.11.2020 09:40:18
Ambit Temp [°C] | Humidity [rel%]	24.7 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	True | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

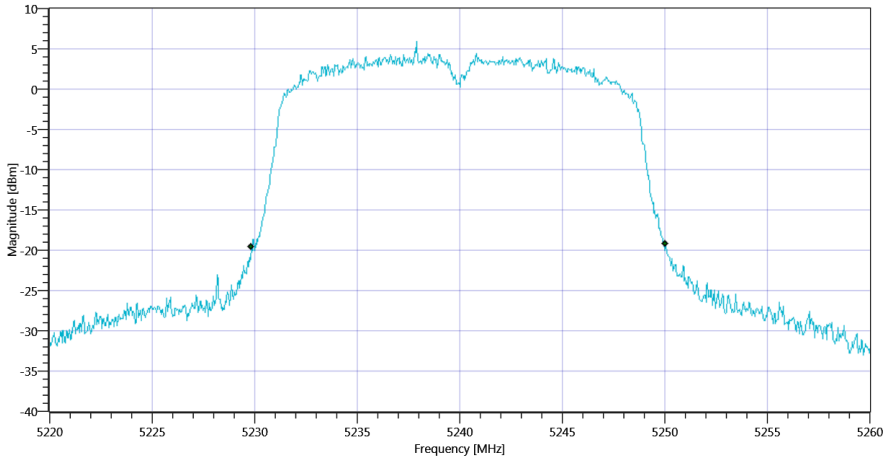
Test at TX 5240 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.923	---	INFO
Duty Cycle min	---	---	0.348	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.157	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 5240 MHz - DutyCycle_06112020_094034.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.2	MHz	INFO
T1 26dB	---	---	5229.8400	MHz	INFO
T2 26dB	---	---	5250.0400	MHz	INFO

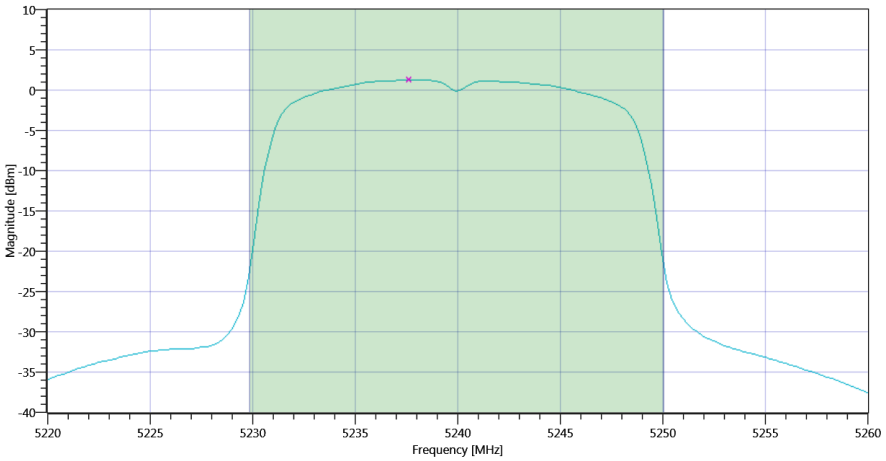


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 BW_06112020_094042.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.34 | 18.96 | 20
Start [MHz] | Stop [MHz]	5220.000 | 5260.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	12.47	dBm	INFO
Duty Cycle Correction	---	---	0.35	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.82	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.05	12.82	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD_06112020_094106.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	1.24	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.35	dB	INFO
Power Spectral Density DC corrected	---	11	1.59	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:41:08 / RT: 50 s	PASS

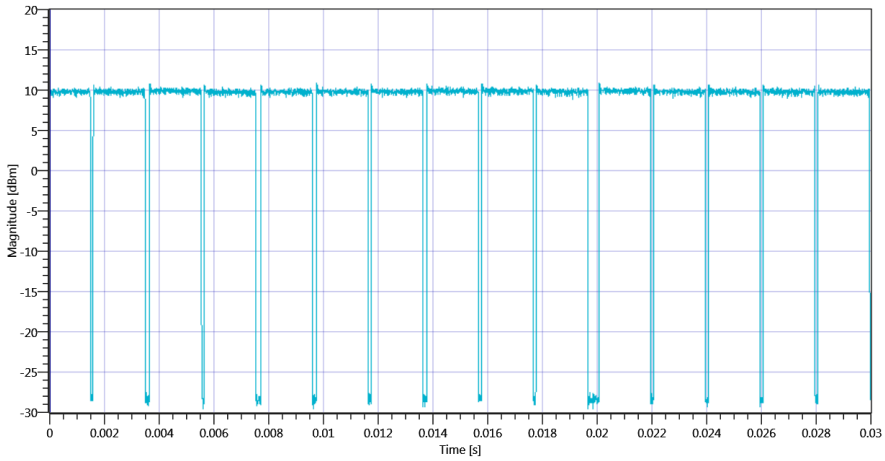
4. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A

Test References	
TC Start	06.11.2020 09:43:42
Ambit Temp [°C] | Humidity [rel%]	24.7 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

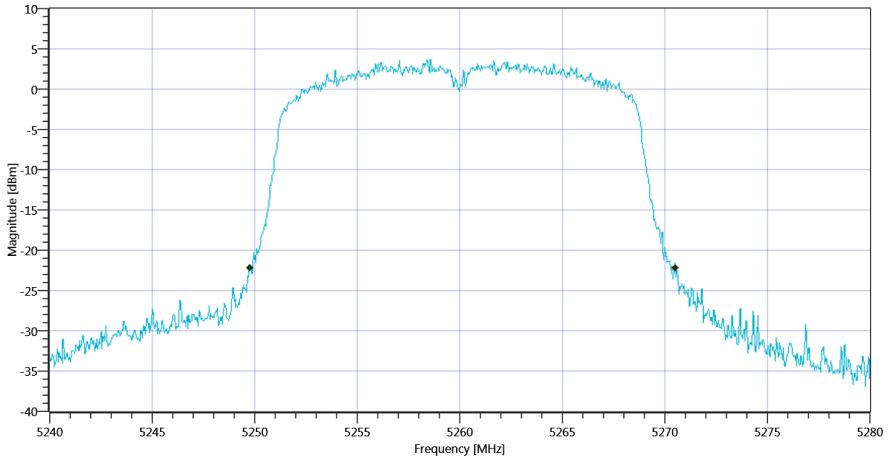
Test at TX 5260 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.943	---	INFO
Duty Cycle max	---	---	0.255	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.814	---	INFO
Duty Cycle min	---	---	0.894	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.428	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A 5260 MHz - DutyCycle_06112020_094359.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.76	MHz	INFO
T1 26dB	---	---	5249.7600	MHz	INFO
T2 26dB	---	---	5270.5200	MHz	INFO

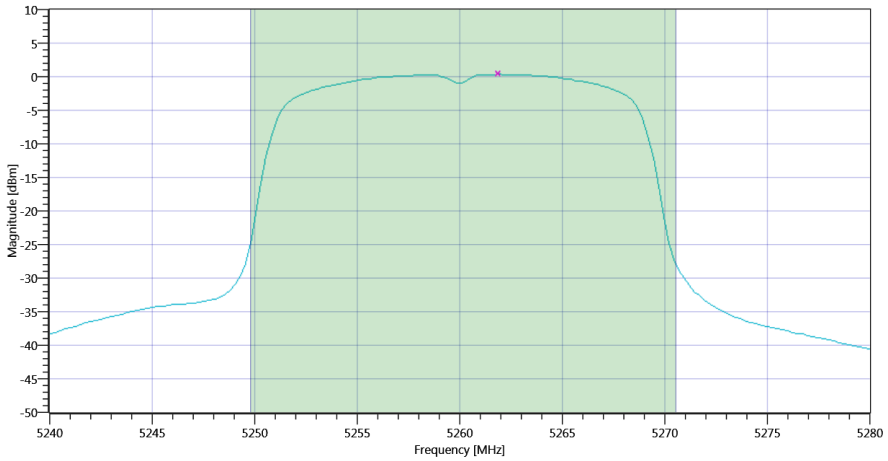


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A BW_06112020_094408.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	20.85 | 18.88 | 20
Start [MHz] | Stop [MHz]	5240.000 | 5280.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	11.56	dBm	INFO
Duty Cycle Correction	---	---	0.89	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.45	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.17	12.45	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD_06112020_094432.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	0.33	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.89	dB	INFO
Power Spectral Density DC corrected	---	11	1.22	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:44:34 / RT: 51 s	PASS

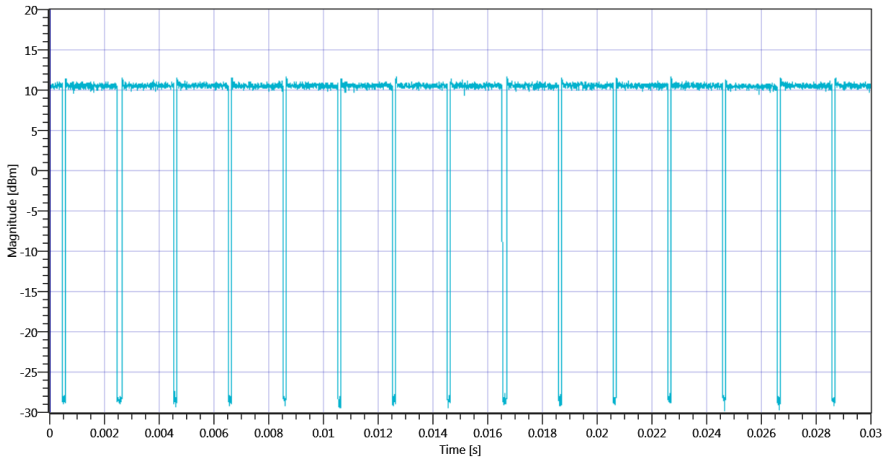
5. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A

Test References	
TC Start	06.11.2020 09:47:04
Ambit Temp [°C] | Humidity [rel%]	24.7 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	True | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

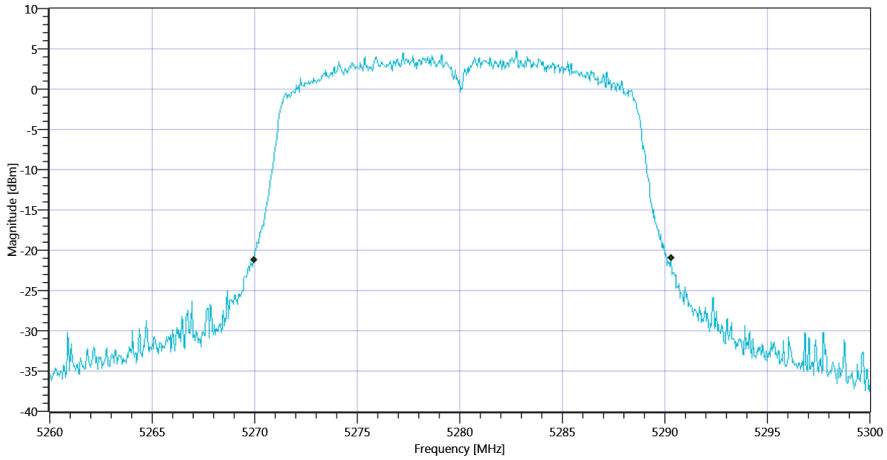
Test at TX 5280 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A 5280 MHz - DutyCycle_06112020_094720.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.36	MHz	INFO
T1 26dB	---	---	5269.9600	MHz	INFO
T2 26dB	---	---	5290.3200	MHz	INFO

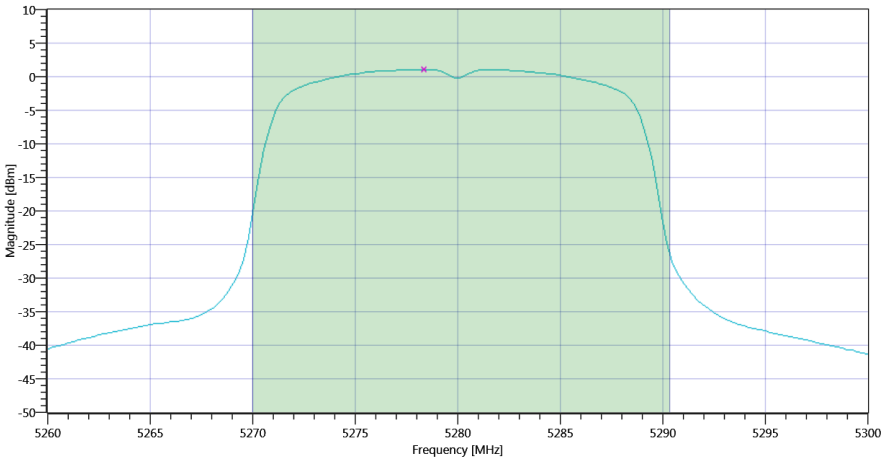


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A BW_06112020_094729.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.35 | 18.75 | 20
Start [MHz] | Stop [MHz]	5260.000 | 5300.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	12.28	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.69	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.09	12.69	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD_06112020_094752.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	1.07	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	11	1.48	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:47:54 / RT: 50 s	PASS

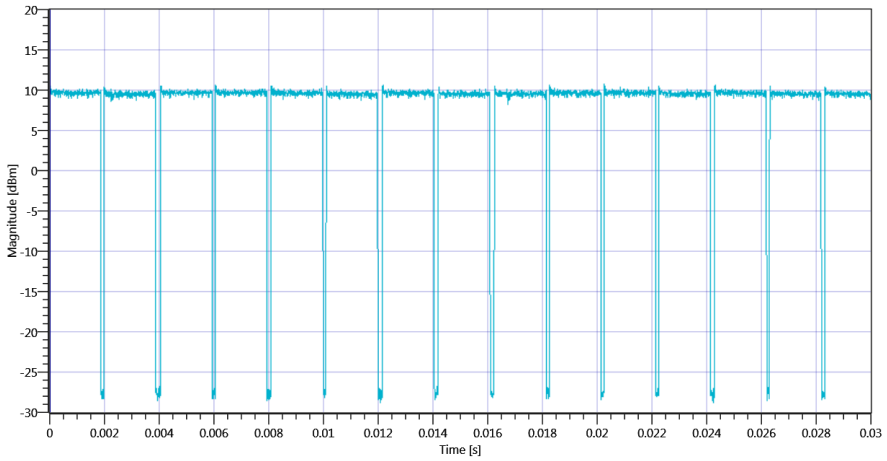
6. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A

Test References	
TC Start	06.11.2020 09:50:30
Ambit Temp [°C] | Humidity [rel%]	24.8 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	True | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

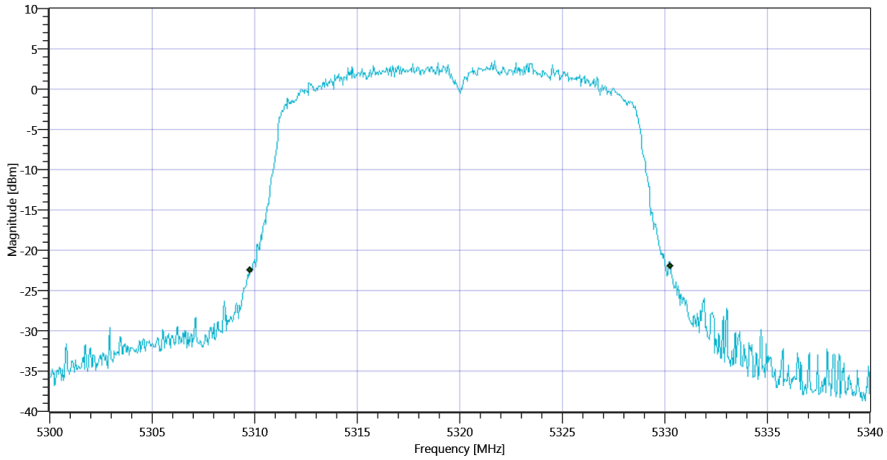
Test at TX 5320 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.912	---	INFO
Duty Cycle min	---	---	0.4	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A 5320 MHz - DutyCycle_06112020_095047.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.48	MHz	INFO
T1 26dB	---	---	5309.8000	MHz	INFO
T2 26dB	---	---	5330.2800	MHz	INFO

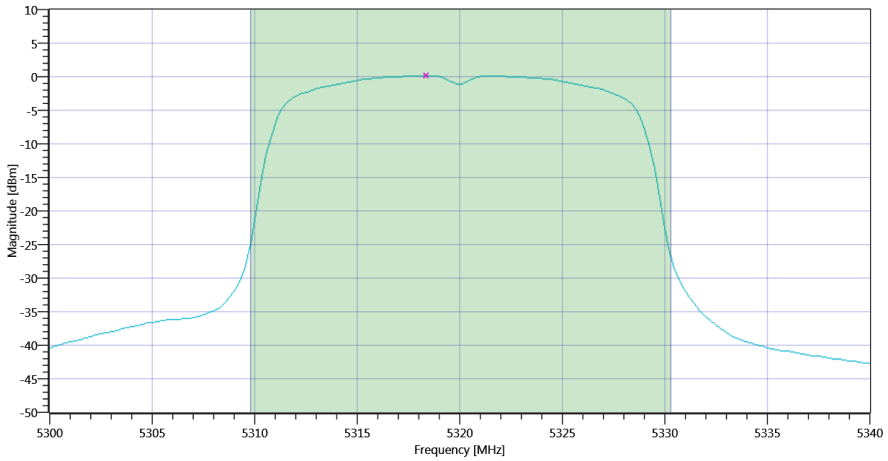


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A BW_06112020_095056.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	20.21 | 18.67 | 20
Start [MHz] | Stop [MHz]	5300.000 | 5340.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	11.34	dBm	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	11.74	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.11	11.74	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD_06112020_095119.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	0.11	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Power Spectral Density DC corrected	---	11	0.51	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:51:21 / RT: 51 s	PASS

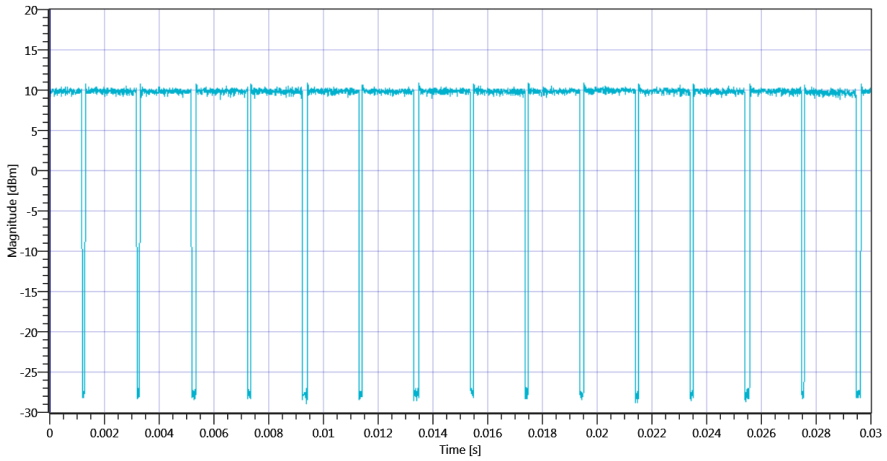
7. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	06.11.2020 09:53:55
Ambit Temp [°C] | Humidity [rel%]	24.8 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5500
Frequency mid to test	False | Freq [MHz] 5600
Frequency high to test	False | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

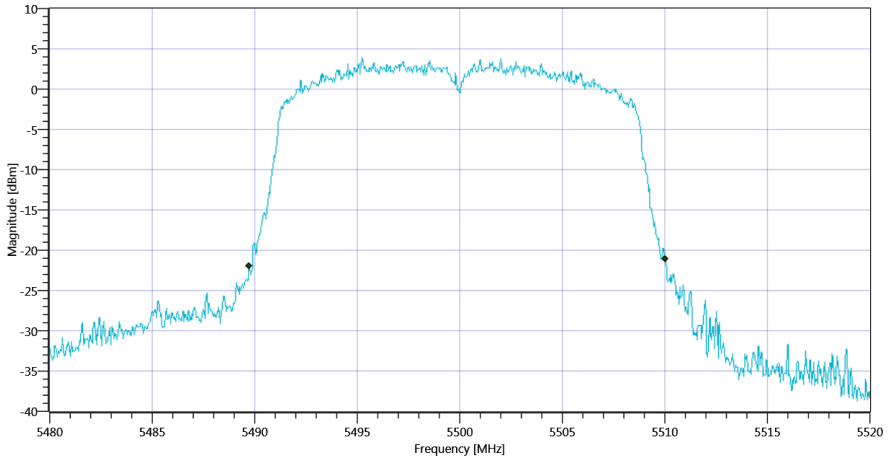
Test at TX 5500 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C 5500 MHz - DutyCycle_06112020_095412.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.32	MHz	INFO
T1 26dB	---	---	5489.7200	MHz	INFO
T2 26dB	---	---	5510.0400	MHz	INFO

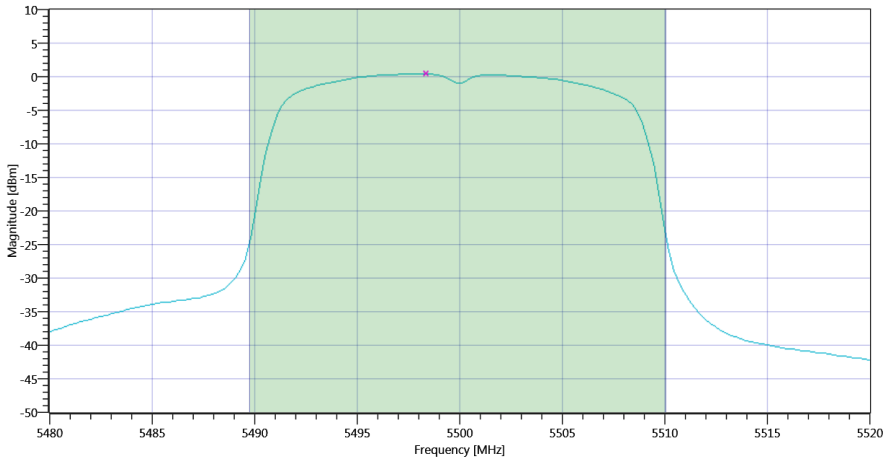


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C BW_06112020_095420.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	20.31 | 18.98 | 20
Start [MHz] | Stop [MHz]	5480.000 | 5520.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	11.59	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.08	12	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD_06112020_095444.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	0.39	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	11	0.8	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:54:46 / RT: 51 s	PASS

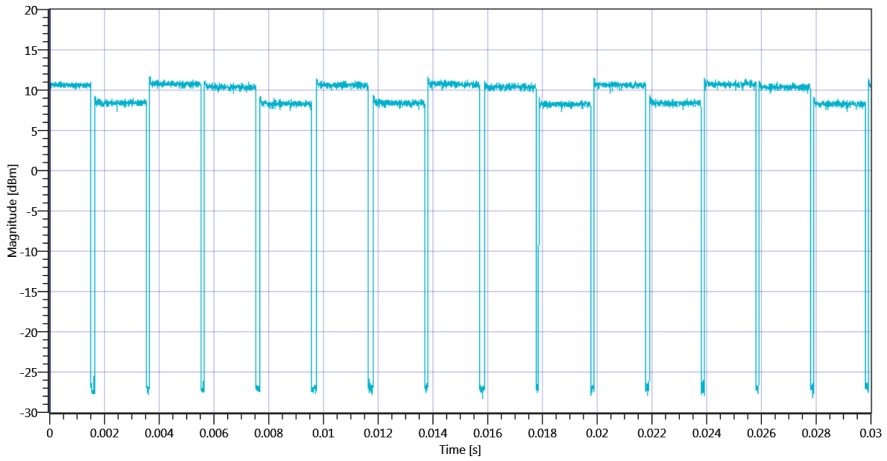
8. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	06.11.2020 09:57:37
Ambit Temp [°C] | Humidity [rel%]	24.8 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5500
Frequency mid to test	True | Freq [MHz] 5600
Frequency high to test	False | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

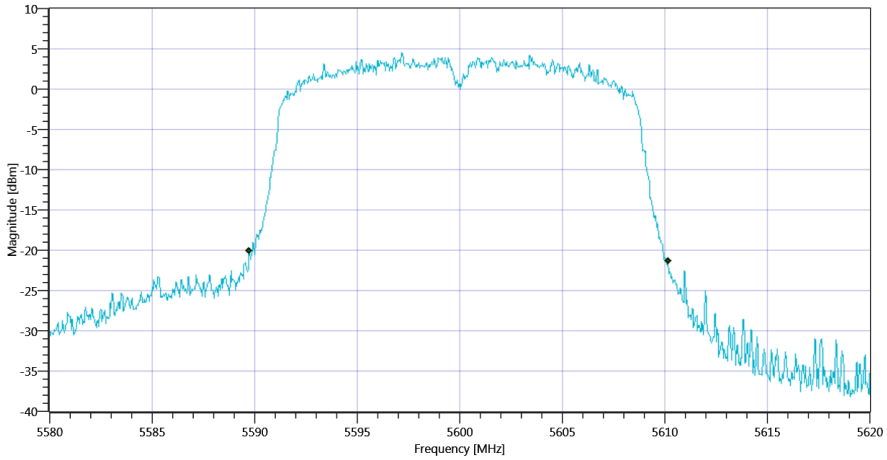
Test at TX 5600 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C 5600 MHz - DutyCycle_06112020_095754.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.44	MHz	INFO
T1 26dB	---	---	5589.7200	MHz	INFO
T2 26dB	---	---	5610.1600	MHz	INFO

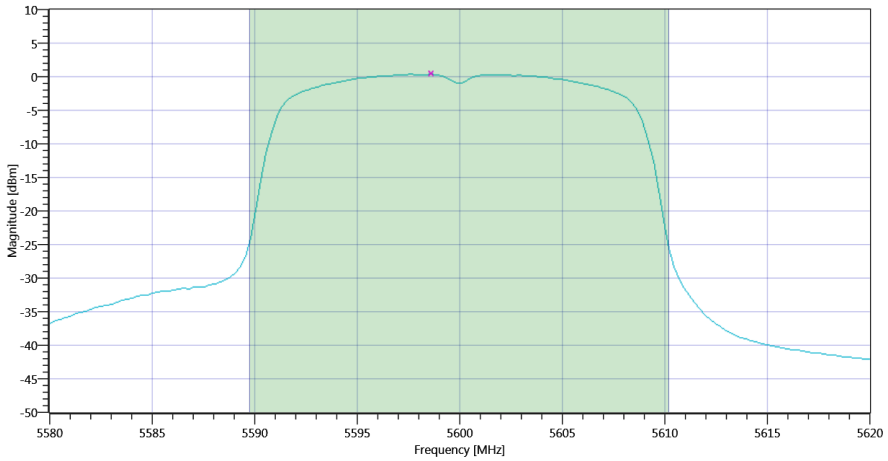


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C BW_06112020_095802.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	20.68 | 19.09 | 20
Start [MHz] | Stop [MHz]	5580.000 | 5620.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	11.58	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	11.99	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.1	11.99	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD_06112020_095826.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	0.35	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	11	0.76	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:58:28 / RT: 51 s	PASS

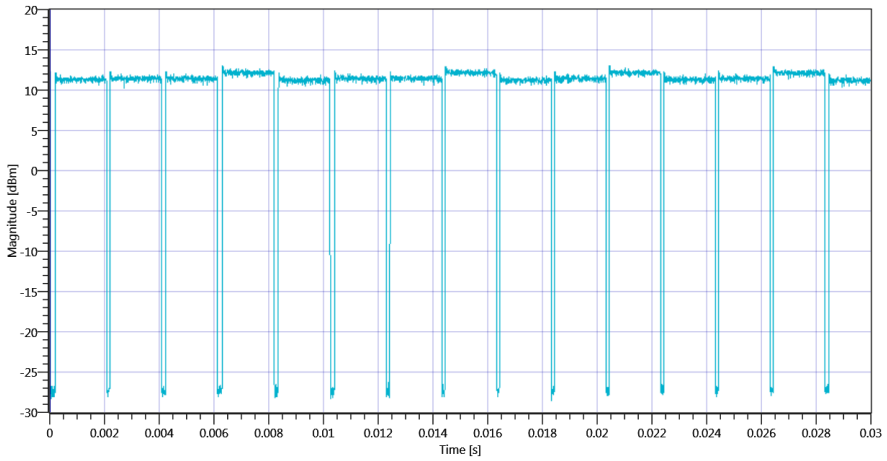
9. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	06.11.2020 10:01:06
Ambit Temp [°C] | Humidity [rel%]	24.8 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5500
Frequency mid to test	False | Freq [MHz] 5600
Frequency high to test	True | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

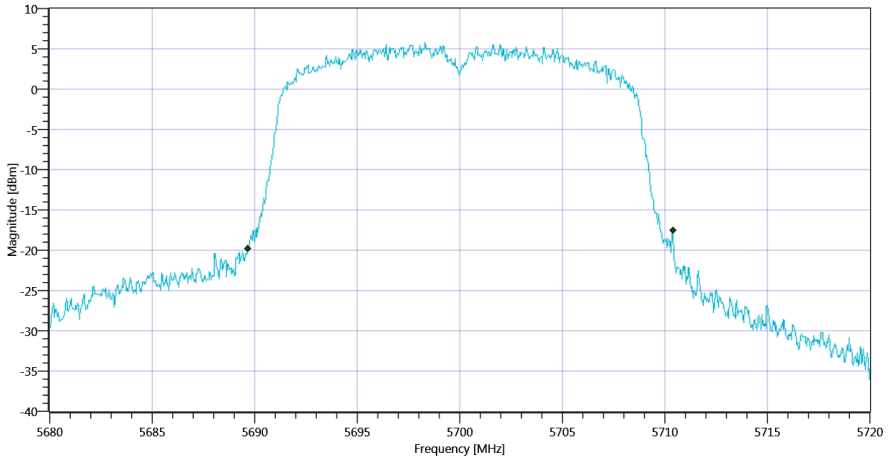
Test at TX 5700 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C 5700 MHz - DutyCycle_06112020_100123.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.72	MHz	INFO
T1 26dB	---	---	5689.6800	MHz	INFO
T2 26dB	---	---	5710.4000	MHz	INFO

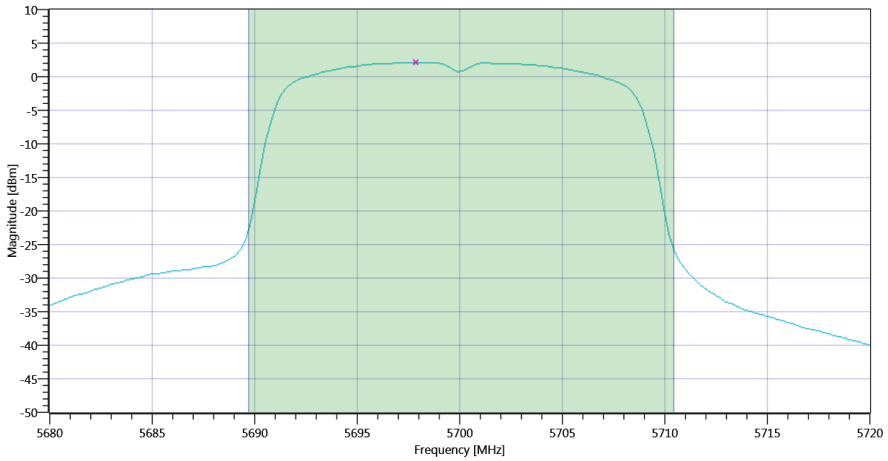


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C BW_06112020_100132.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.74 | 19.15 | 20
Start [MHz] | Stop [MHz]	5680.000 | 5720.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	13.36	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.77	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.16	13.77	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD_06112020_100155.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	2.12	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	11	2.53	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 10:01:57 / RT: 51 s	PASS

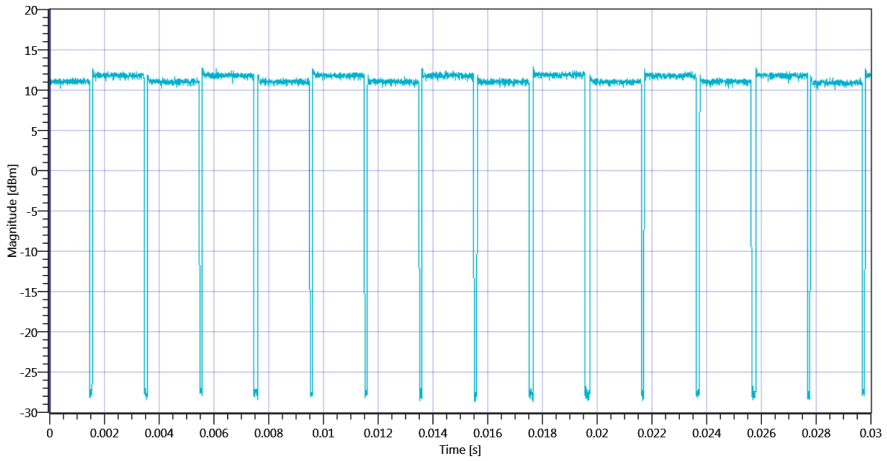
10. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3

Test References	
TC Start	06.11.2020 10:04:35
Ambit Temp [°C] | Humidity [rel%]	24.9 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5745
Frequency mid to test	False | Freq [MHz] 5785
Frequency high to test	False | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

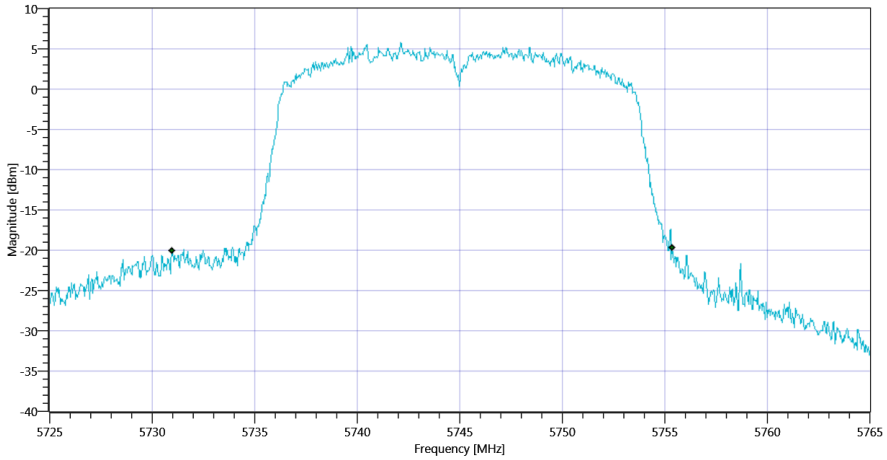
Test at TX 5745 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 5745 MHz - DutyCycle_06112020_100452.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	24.4	MHz	INFO
T1 26dB	---	---	5730.9600	MHz	INFO
T2 26dB	---	---	5755.3600	MHz	INFO

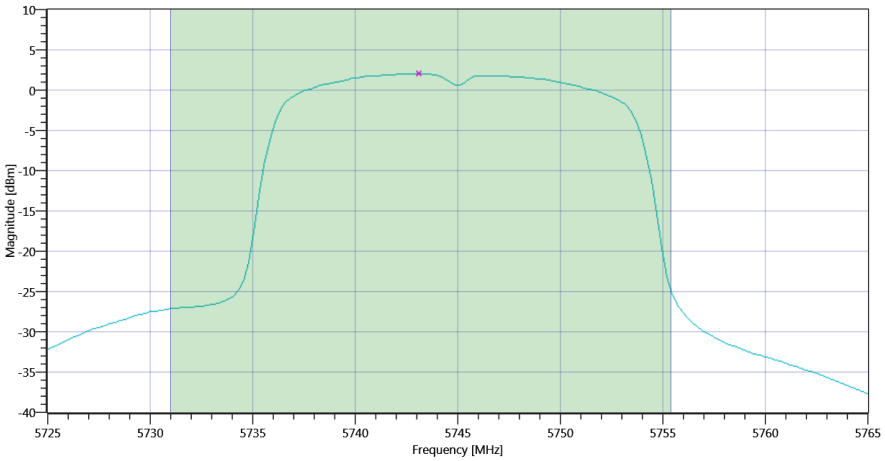


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 BW_06112020_100501.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.87 | 18.79 | 20
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	16000 | 1 | 160 | SWE

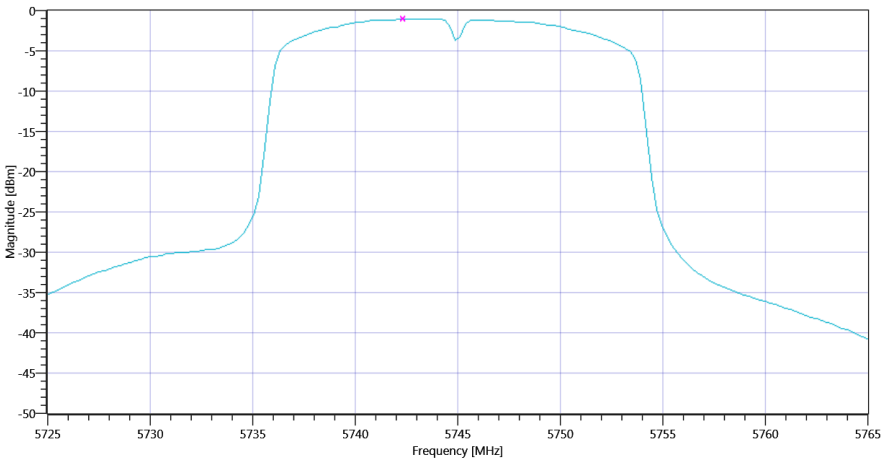
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.2	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	13.61	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.87	13.61	dBm	not applicable



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD_06112020_100524.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.87 | 18.79 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-1.02	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	30	-0.61	dBm/0.5MHz	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3_06112020_100547.png

TEST FINISHED		
General Verdict	06.11.2020 10:05:47 / RT: 72 s	PASS

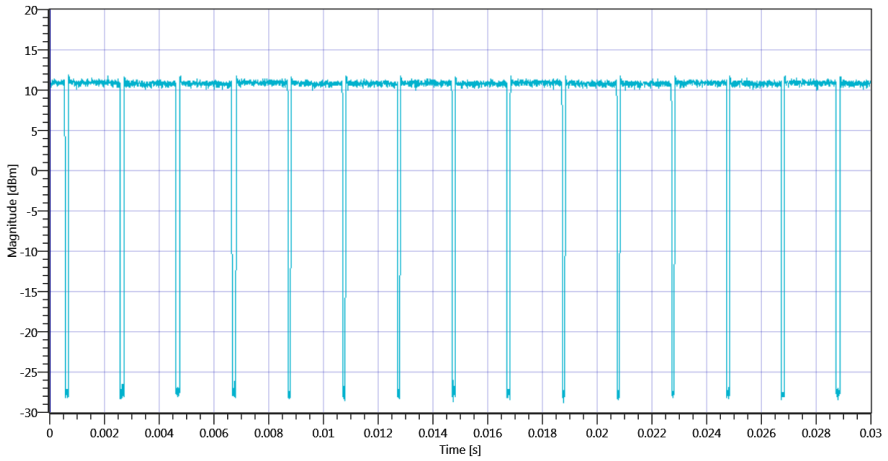
11. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3

Test References	
TC Start	06.11.2020 10:09:33
Ambit Temp [°C] | Humidity [rel%]	24.9 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5745
Frequency mid to test	True | Freq [MHz] 5785
Frequency high to test	False | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

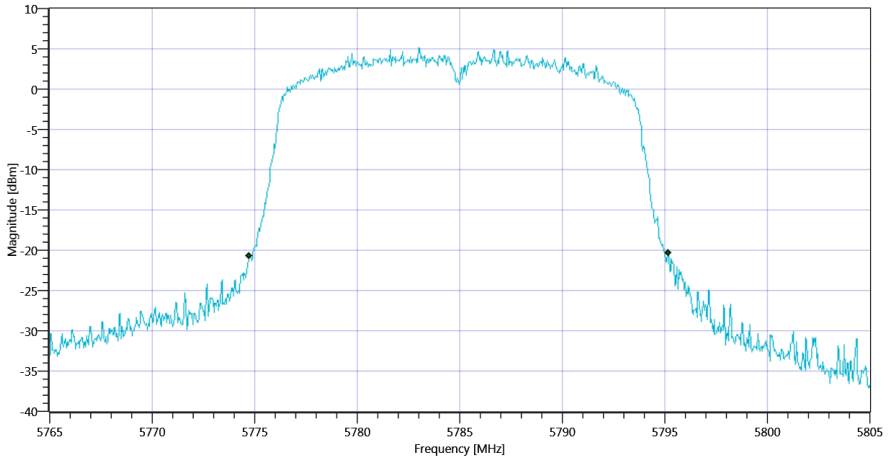
Test at TX 5785 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.919	---	INFO
Duty Cycle min	---	---	0.367	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.165	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 5785 MHz - DutyCycle_06112020_100950.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.44	MHz	INFO
T1 26dB	---	---	5774.7200	MHz	INFO
T2 26dB	---	---	5795.1600	MHz	INFO

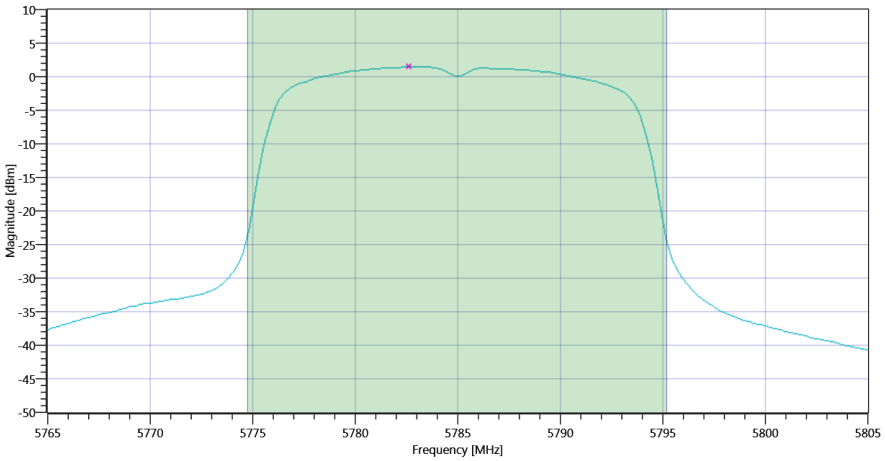


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 BW_06112020_100959.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.48 | 18.77 | 20
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	16000 | 1 | 160 | SWE

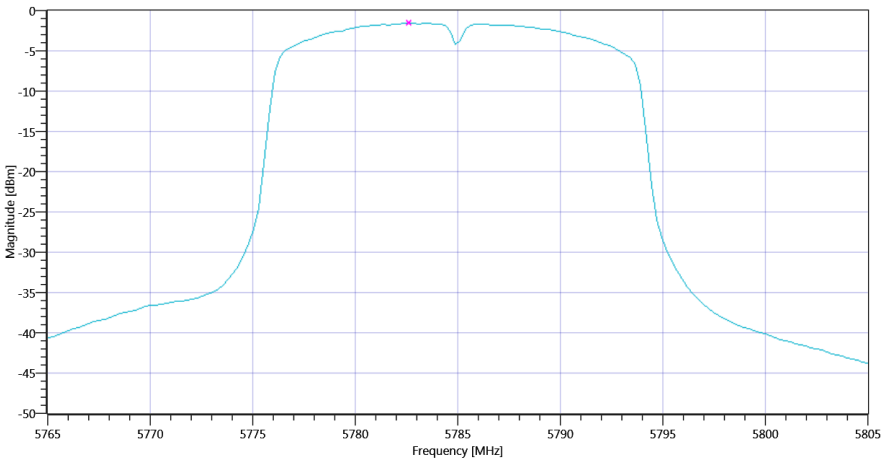
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.59	dBm	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	12.96	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.1	12.96	dBm	not applicable



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD_06112020_101022.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.48 | 18.77 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-1.58	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Power Spectral Density DC corrected	---	30	-1.21	dBm/0.5MHz	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3_06112020_101045.png

TEST FINISHED		
General Verdict	06.11.2020 10:10:45 / RT: 72 s	PASS

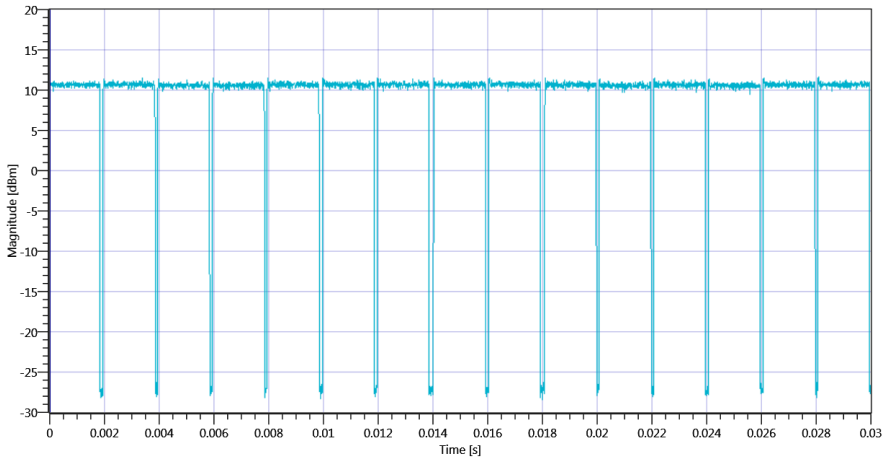
12. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3

Test References	
TC Start	06.11.2020 10:14:44
Ambit Temp [°C] | Humidity [rel%]	24.9 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5745
Frequency mid to test	False | Freq [MHz] 5785
Frequency high to test	True | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

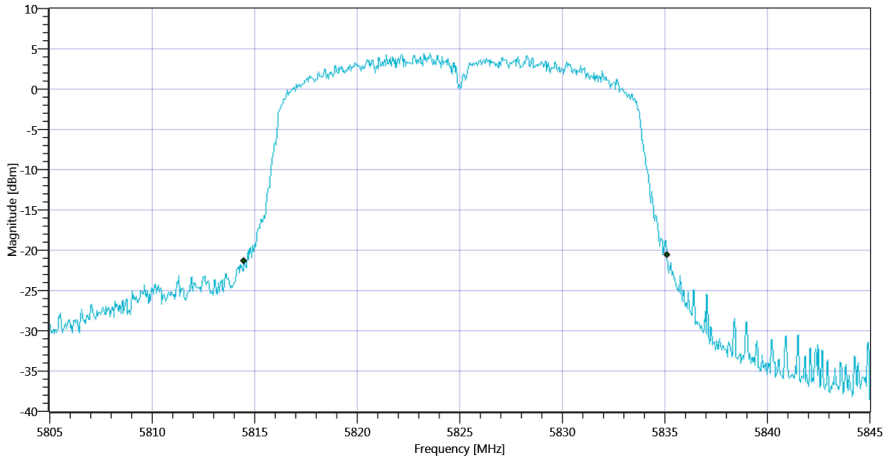
Test at TX 5825 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.912	---	INFO
Duty Cycle min	---	---	0.4	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 5825 MHz - DutyCycle_06112020_101502.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.64	MHz	INFO
T1 26dB	---	---	5814.4800	MHz	INFO
T2 26dB	---	---	5835.1200	MHz	INFO

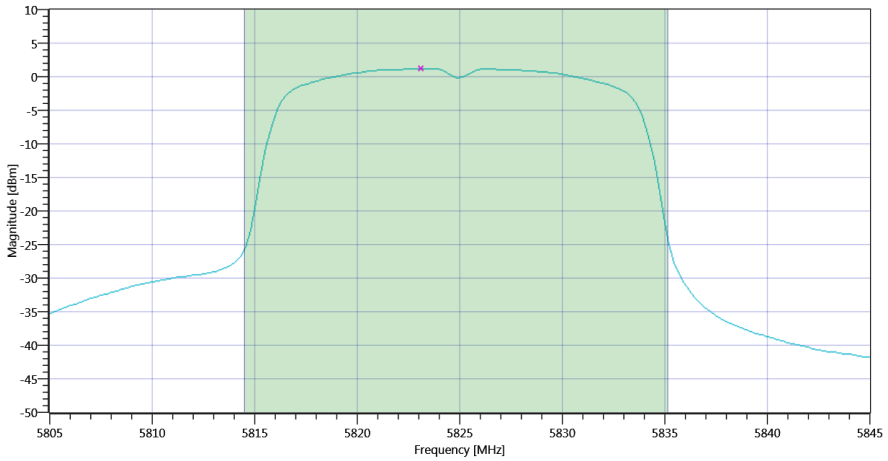


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 BW_06112020_101511.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.29 | 19.08 | 20
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	16000 | 1 | 160 | SWE

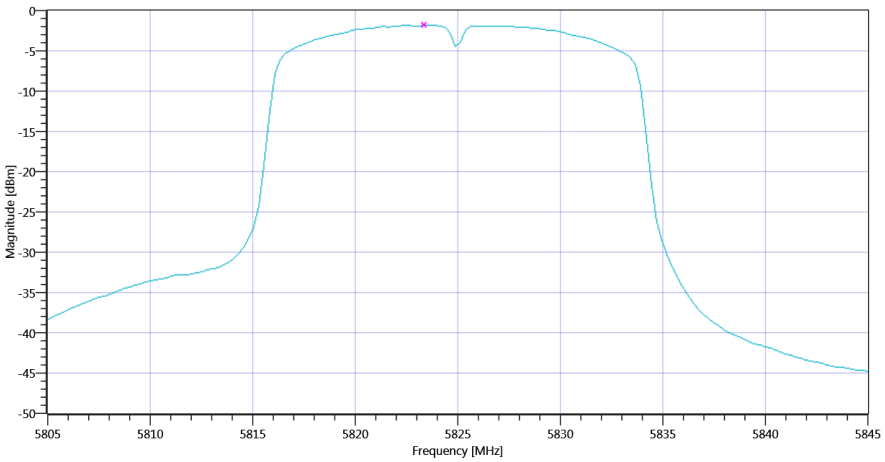
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.4	dBm	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	12.8	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.15	12.8	dBm	not applicable



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD_06112020_101534.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.29 | 19.08 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-1.84	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Power Spectral Density DC corrected	---	30	-1.44	dBm/0.5MHz	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3_06112020_101557.png

TEST FINISHED		
General Verdict	06.11.2020 10:15:57 / RT: 72 s	PASS

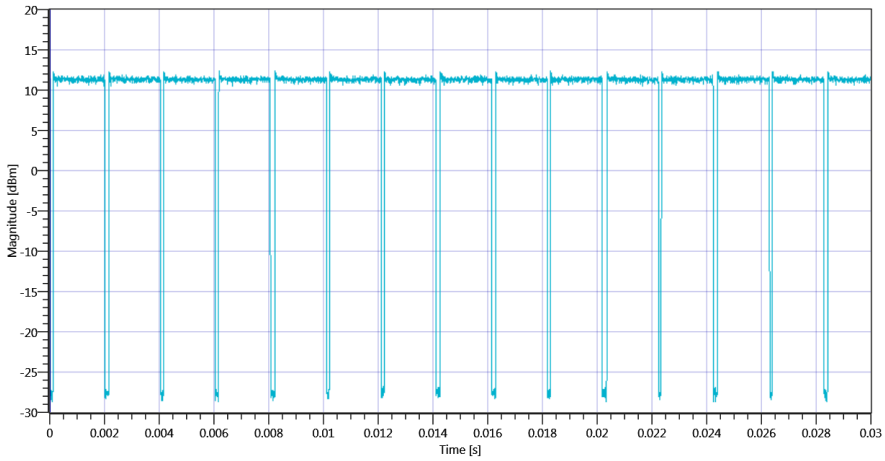
13. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1

Test References	
TC Start	06.11.2020 09:32:47
Ambit Temp [°C] | Humidity [rel%]	24.6 | 26
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

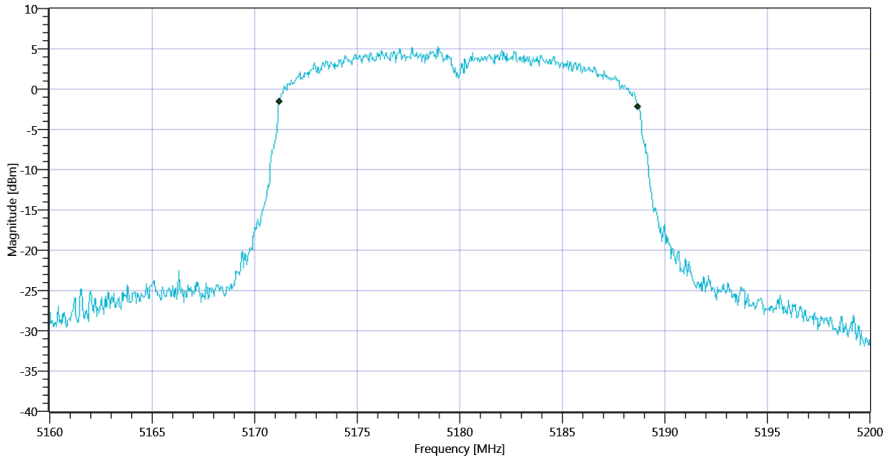
Test at TX 5180 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.94	---	INFO
Duty Cycle max	---	---	0.269	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.912	---	INFO
Duty Cycle min	---	---	0.4	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.12	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 5180 MHz - DutyCycle_06112020_093304.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	17.502	MHz	INFO
T1 99%	---	---	5171.2088	MHz	INFO
T2 99%	---	---	5188.7113	MHz	INFO

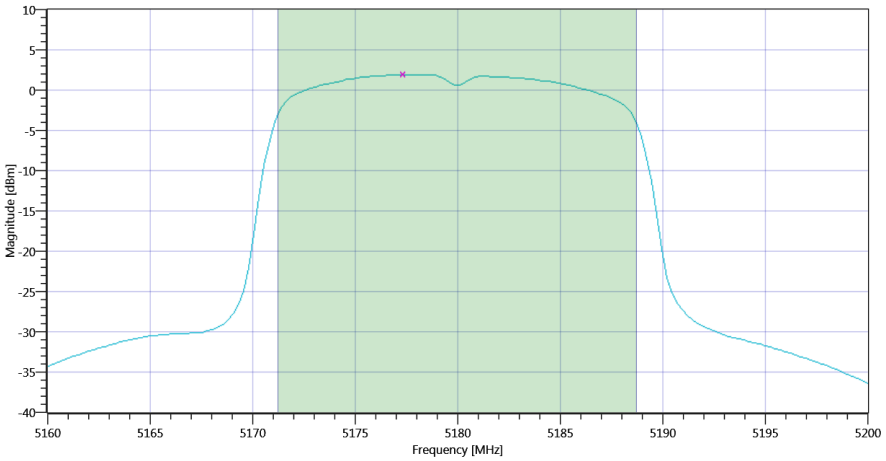


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 BW_06112020_093316.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.73 | 18.86 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.04	dBm	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.44	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.43	13.44	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD_06112020_093339.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	1.93	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Power Spectral Density DC corrected	---	11	2.33	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:33:41 / RT: 54 s	PASS

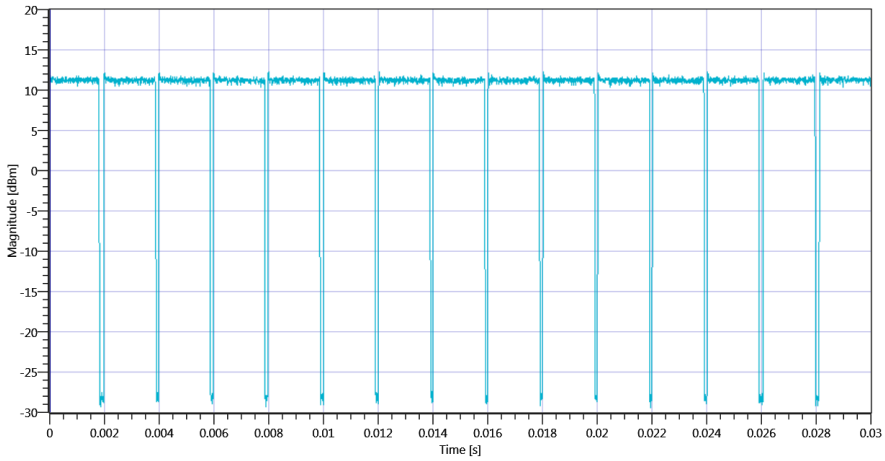
14. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1

Test References	
TC Start	06.11.2020 09:37:27
Ambit Temp [°C] | Humidity [rel%]	24.6 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	True | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

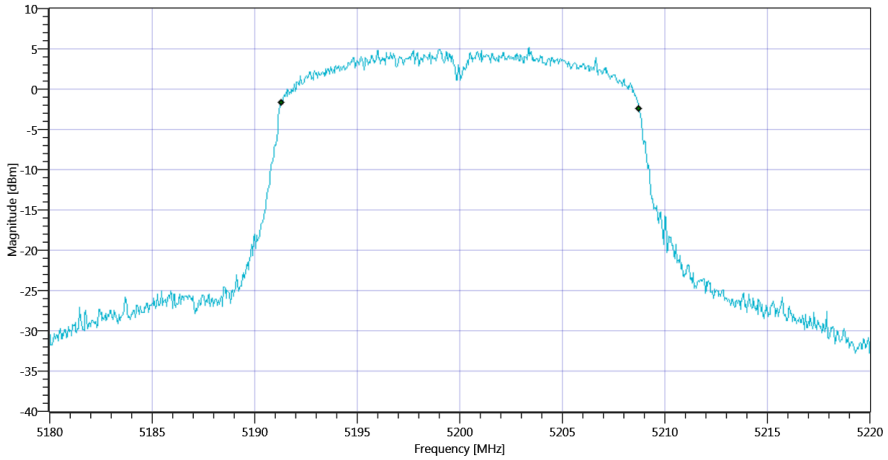
Test at TX 5200 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.912	---	INFO
Duty Cycle min	---	---	0.4	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 5200 MHz - DutyCycle_06112020_093744.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	17.463	MHz	INFO
T1 99%	---	---	5191.2887	MHz	INFO
T2 99%	---	---	5208.7512	MHz	INFO

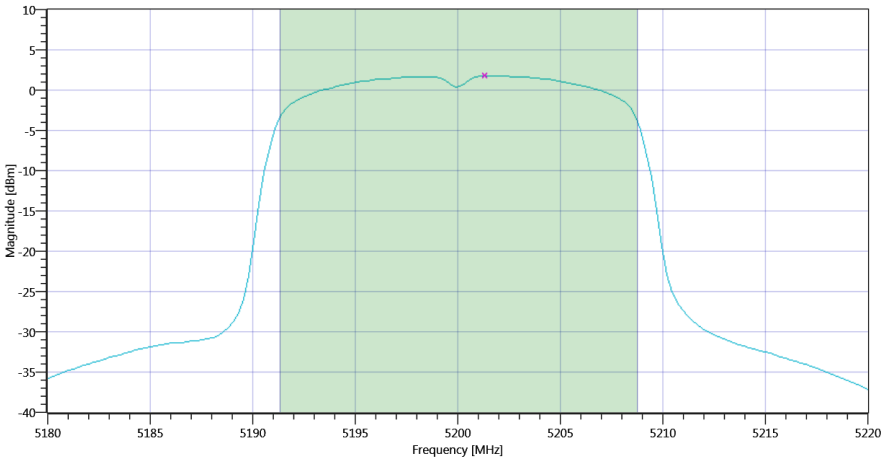


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 BW_06112020_093752.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.52 | 19.04 | 20
Start [MHz] | Stop [MHz]	5180.000 | 5220.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.91	dBm	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.31	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.42	13.31	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD_06112020_093816.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	1.72	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Power Spectral Density DC corrected	---	11	2.12	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:38:18 / RT: 50 s	PASS

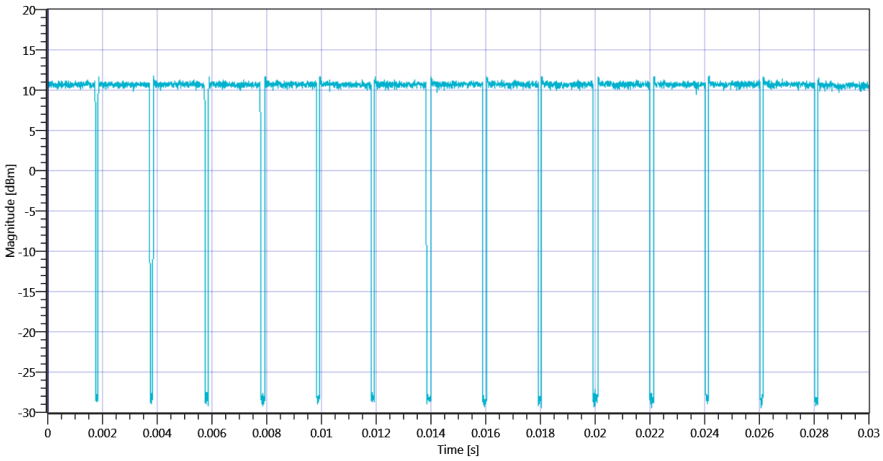
15. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1

Test References	
TC Start	06.11.2020 09:41:12
Ambit Temp [°C] | Humidity [rel%]	24.6 | 26
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	True | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

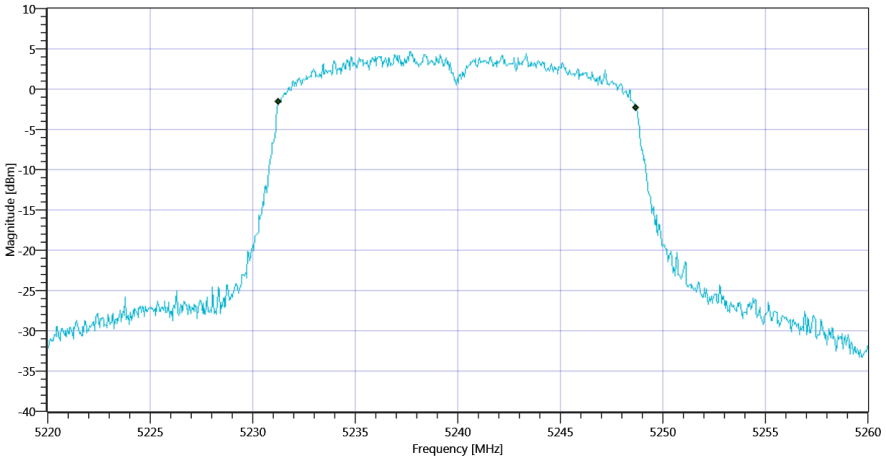
Test at TX 5240 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 5240 MHz - DutyCycle_06112020_094129.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.463	MHz	INFO
T1 99%	---	---	5231.2488	MHz	INFO
T2 99%	---	---	5248.7113	MHz	INFO

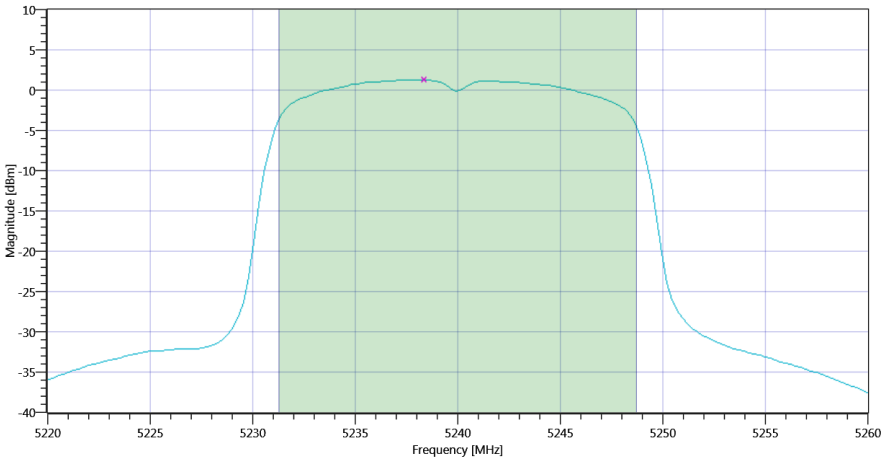


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 BW_06112020_094138.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	20.91 | 18.96 | 20
Start [MHz] | Stop [MHz]	5220.000 | 5260.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.4	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.81	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.42	12.81	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD_06112020_094202.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	1.25	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	11	1.66	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:42:04 / RT: 51 s	PASS

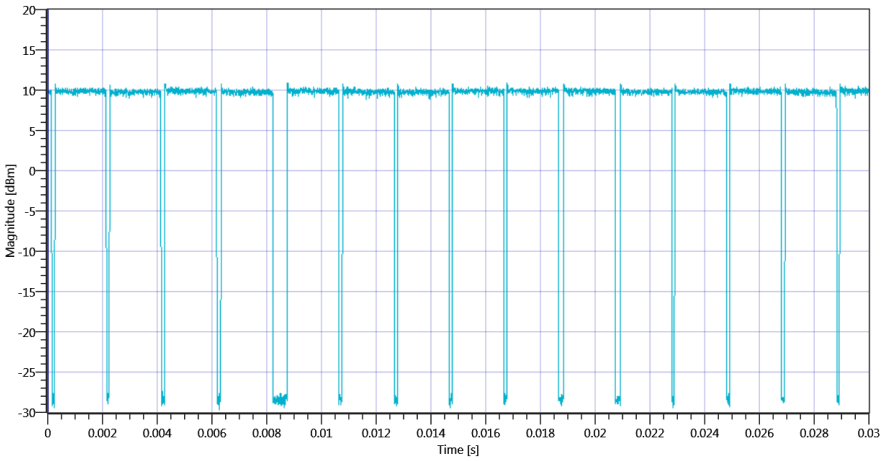
16. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A

Test References	
TC Start	06.11.2020 09:44:38
Ambit Temp [°C] | Humidity [rel%]	24.7 | 26
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

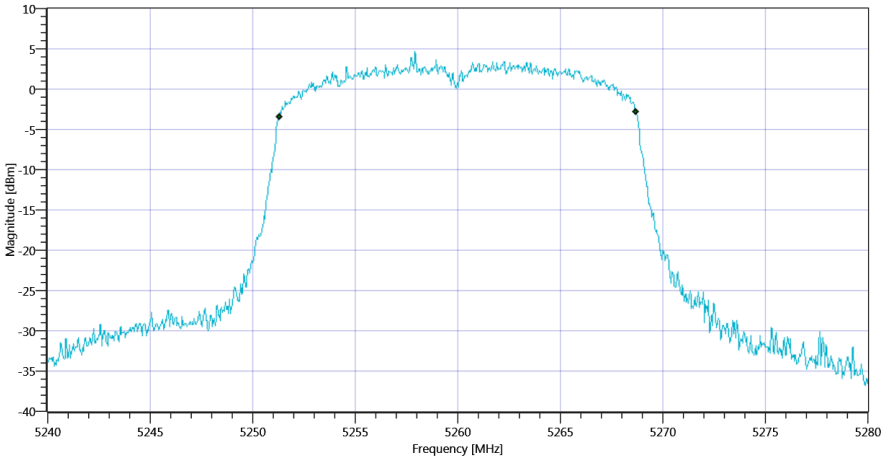
Test at TX 5260 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.781	---	INFO
Duty Cycle min	---	---	1.073	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.113	ms	INFO
Max Gap Length	---	---	0.525	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A 5260 MHz - DutyCycle_06112020_094455.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	17.423	MHz	INFO
T1 99%	---	---	5251.2887	MHz	INFO
T2 99%	---	---	5268.7113	MHz	INFO

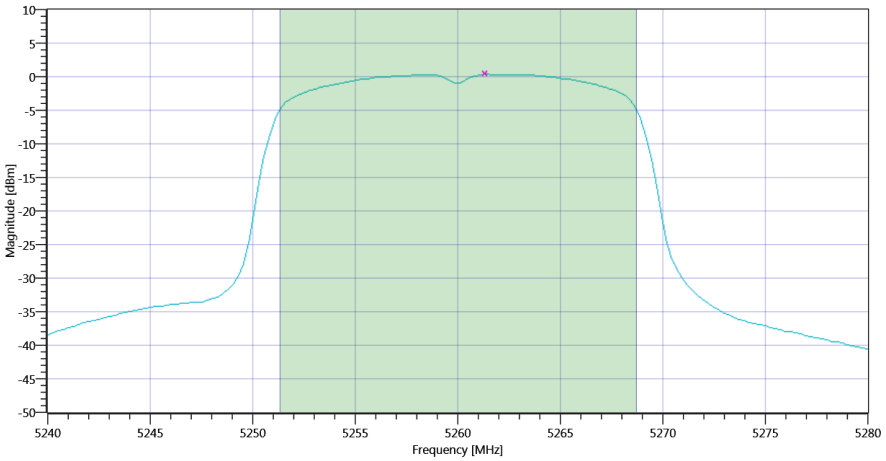


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A BW_06112020_094504.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	20.60 | 18.88 | 20
Start [MHz] | Stop [MHz]	5240.000 | 5280.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	11.49	dBm	INFO
Duty Cycle Correction	---	---	1.07	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.56	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.41	12.56	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD_06112020_094527.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	0.35	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.07	dB	INFO
Power Spectral Density DC corrected	---	11	1.42	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:45:29 / RT: 51 s	PASS

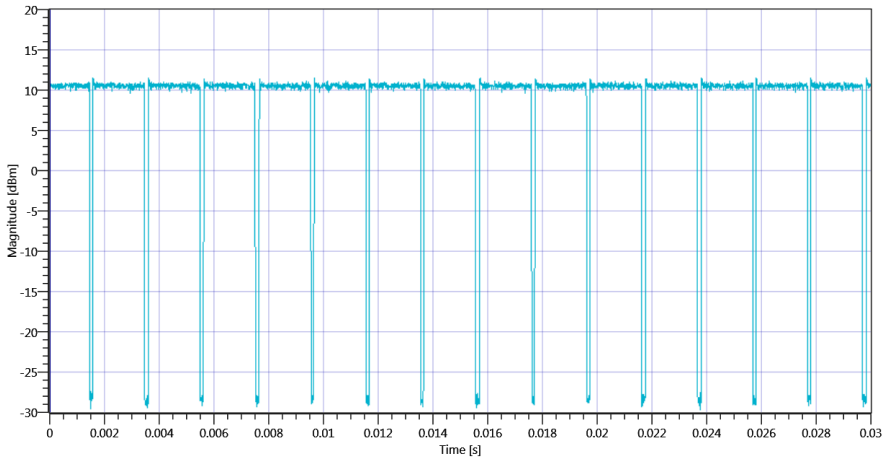
17. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A

Test References	
TC Start	06.11.2020 09:47:59
Ambit Temp [°C] | Humidity [rel%]	24.8 | 26
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	True | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

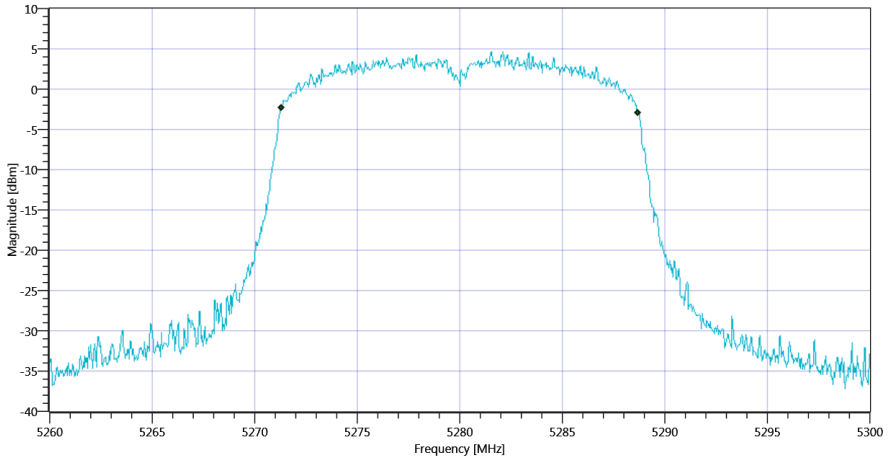
Test at TX 5280 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.912	---	INFO
Duty Cycle min	---	---	0.4	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A 5280 MHz - DutyCycle_06112020_094816.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	17.383	MHz	INFO
T1 99%	---	---	5271.2887	MHz	INFO
T2 99%	---	---	5288.6713	MHz	INFO

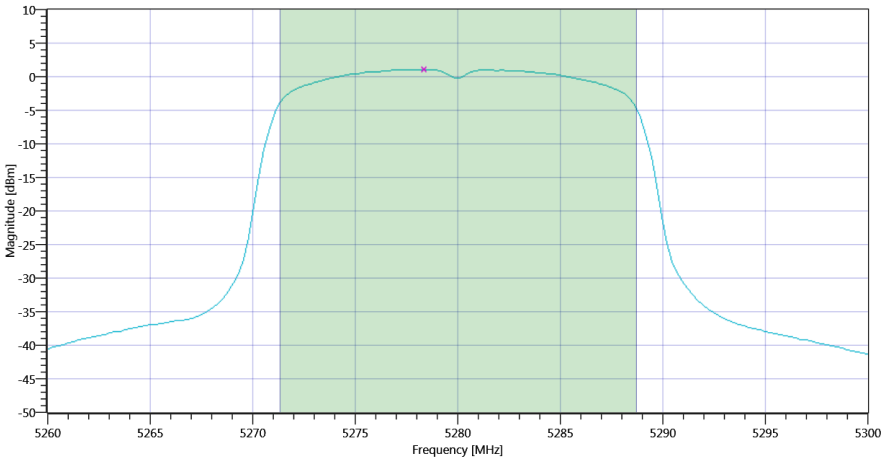


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A BW_06112020_094825.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.25 | 18.75 | 20
Start [MHz] | Stop [MHz]	5260.000 | 5300.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	12.19	dBm	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.59	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.4	12.59	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD_06112020_094848.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	1.06	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Power Spectral Density DC corrected	---	11	1.46	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:48:50 / RT: 51 s	PASS

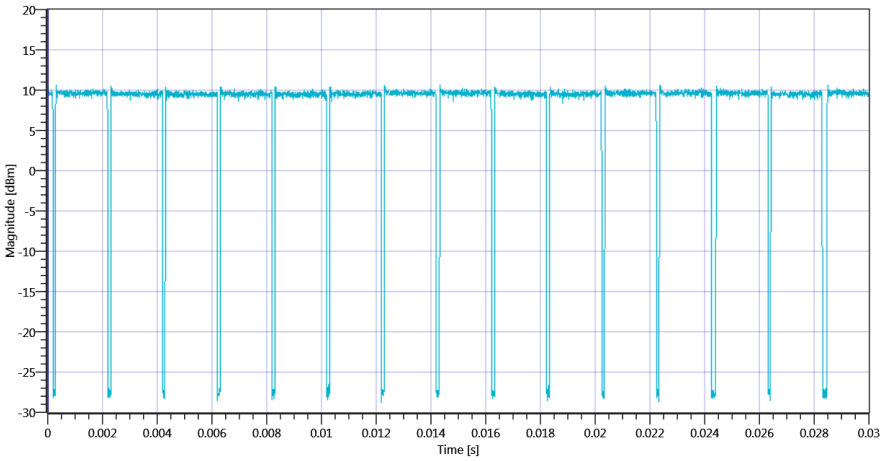
18. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A

Test References	
TC Start	06.11.2020 09:51:26
Ambit Temp [°C] | Humidity [rel%]	24.8 | 26
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	True | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

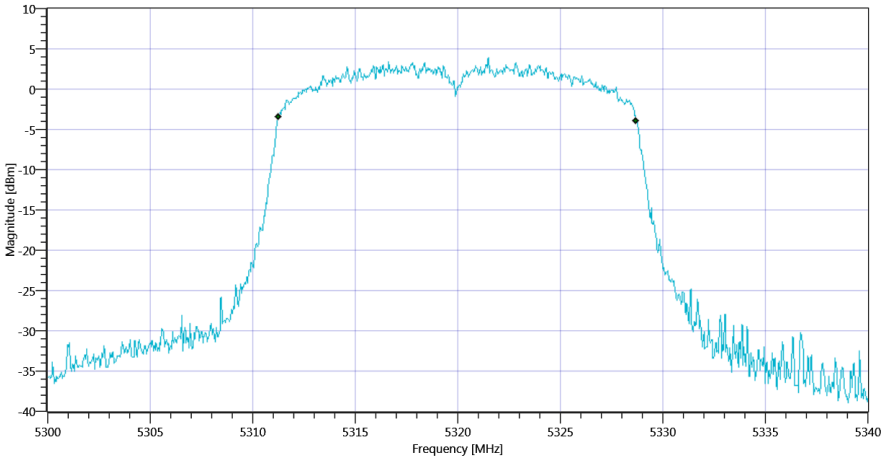
Test at TX 5320 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.94	---	INFO
Duty Cycle max	---	---	0.269	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.12	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A 5320 MHz - DutyCycle_06112020_095143.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.463	MHz	INFO
T1 99%	---	---	5311.2488	MHz	INFO
T2 99%	---	---	5328.7113	MHz	INFO

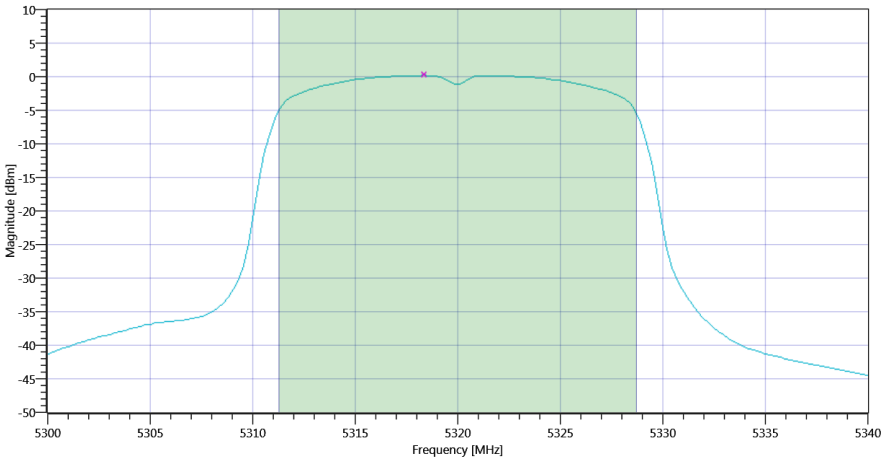


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A BW_06112020_095152.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	19.42 | 18.67 | 15
Start [MHz] | Stop [MHz]	5300.000 | 5340.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	11.36	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	11.77	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.42	11.77	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD_06112020_095215.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	0.18	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	11	0.59	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:52:18 / RT: 51 s	PASS

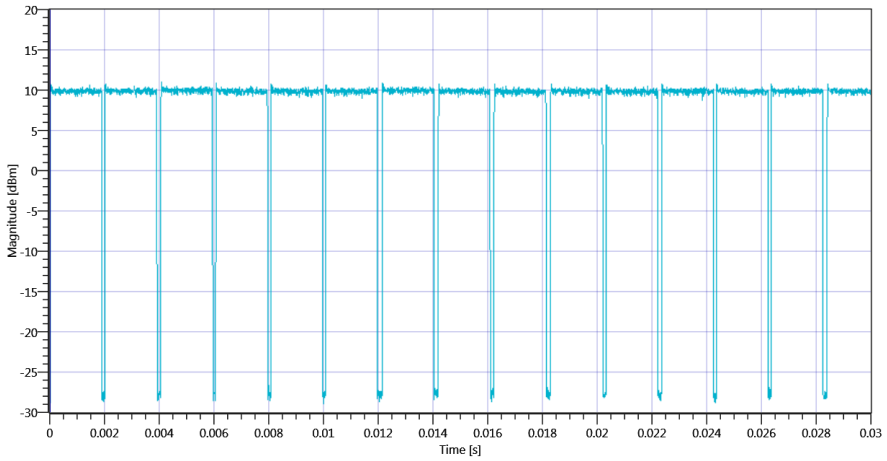
19. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	06.11.2020 09:54:50
Ambit Temp [°C] | Humidity [rel%]	24.8 | 26
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5500
Frequency mid to test	False | Freq [MHz] 5600
Frequency high to test	False | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

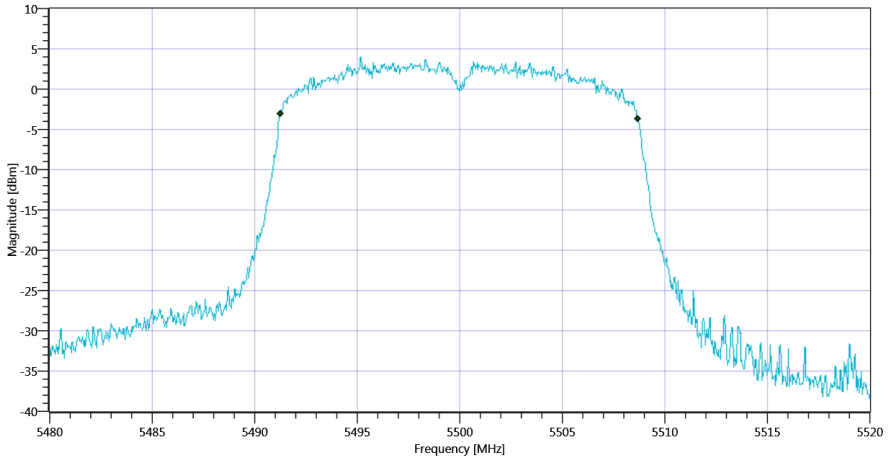
Test at TX 5500 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.113	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C 5500 MHz - DutyCycle_06112020_095508.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.423	MHz	INFO
T1 99%	---	---	5491.2488	MHz	INFO
T2 99%	---	---	5508.6713	MHz	INFO

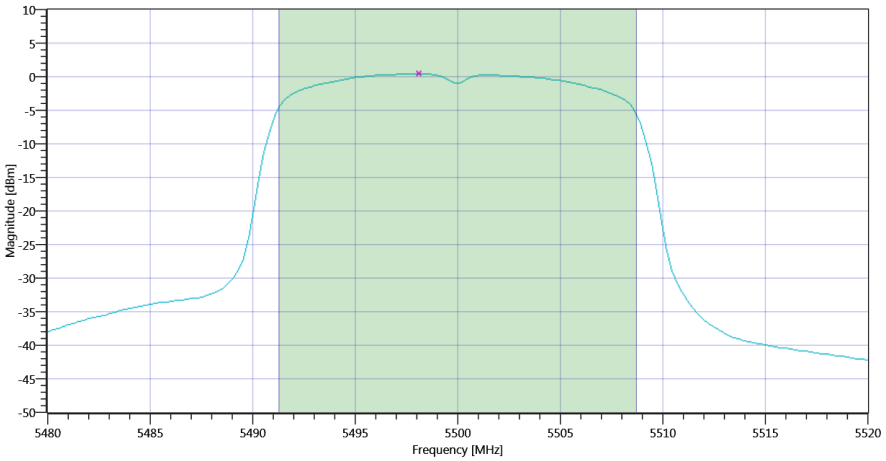


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C BW_06112020_095516.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	20.98 | 18.98 | 20
Start [MHz] | Stop [MHz]	5480.000 | 5520.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	11.51	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	11.92	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.41	11.92	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD_06112020_095540.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	0.4	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	11	0.81	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:55:42 / RT: 51 s	PASS

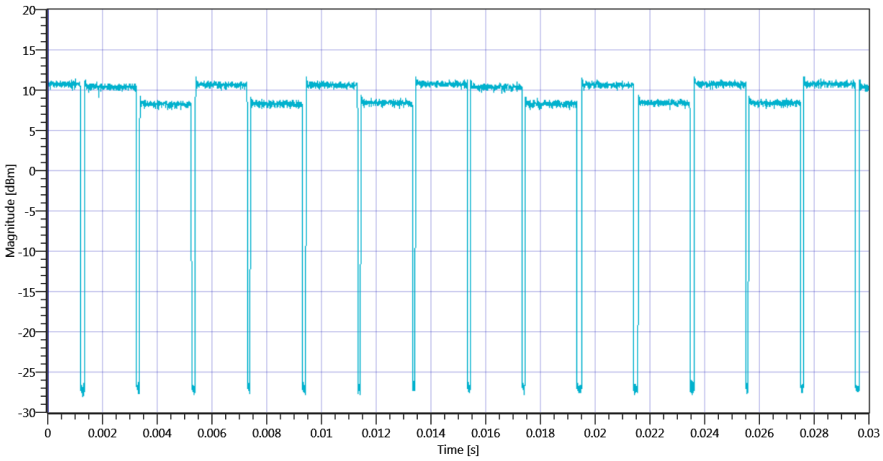
20. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	06.11.2020 09:58:32
Ambit Temp [°C] | Humidity [rel%]	24.8 | 26
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5500
Frequency mid to test	True | Freq [MHz] 5600
Frequency high to test	False | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

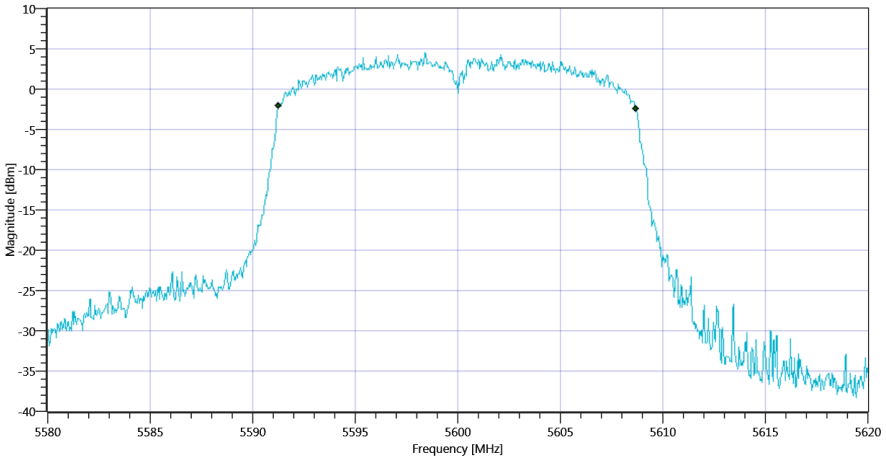
Test at TX 5600 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C 5600 MHz - DutyCycle_06112020_095850.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.463	MHz	INFO
T1 99%	---	---	5591.2488	MHz	INFO
T2 99%	---	---	5608.7113	MHz	INFO

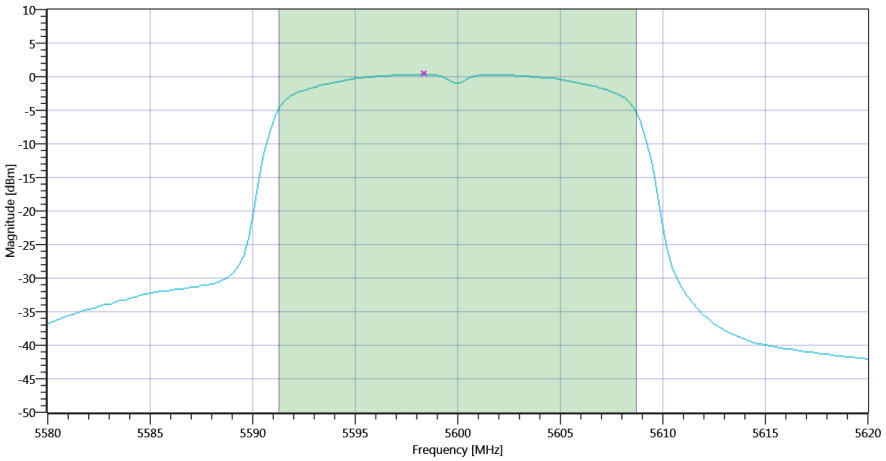


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C BW_06112020_095858.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.62 | 19.09 | 20
Start [MHz] | Stop [MHz]	5580.000 | 5620.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	11.5	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	11.91	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.42	11.91	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD_06112020_095922.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	0.35	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	11	0.76	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:59:24 / RT: 51 s	PASS

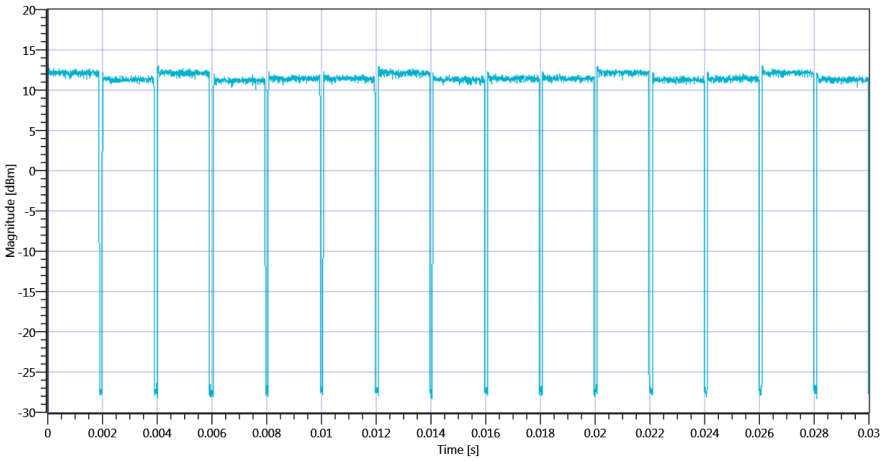
21. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	06.11.2020 10:02:02
Ambit Temp [°C] | Humidity [rel%]	24.8 | 26
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5500
Frequency mid to test	False | Freq [MHz] 5600
Frequency high to test	True | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

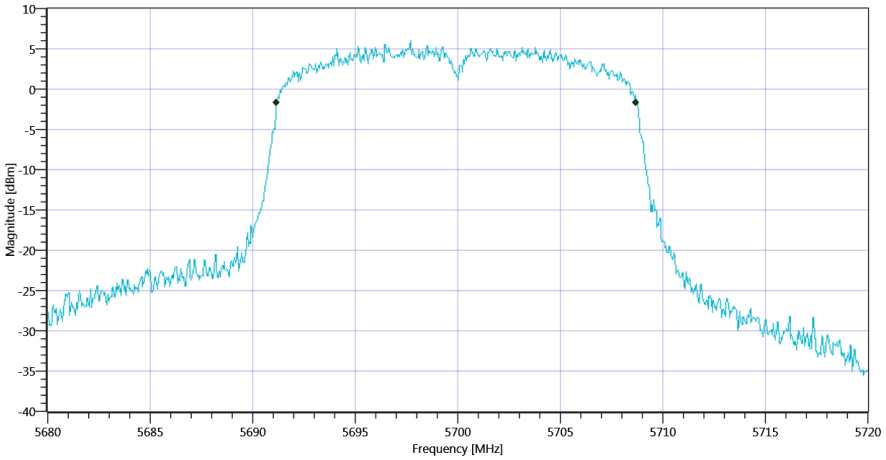
Test at TX 5700 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.916	---	INFO
Duty Cycle min	---	---	0.381	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.172	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C 5700 MHz - DutyCycle_06112020_100219.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	17.542	MHz	INFO
T1 99%	---	---	5691.1688	MHz	INFO
T2 99%	---	---	5708.7113	MHz	INFO

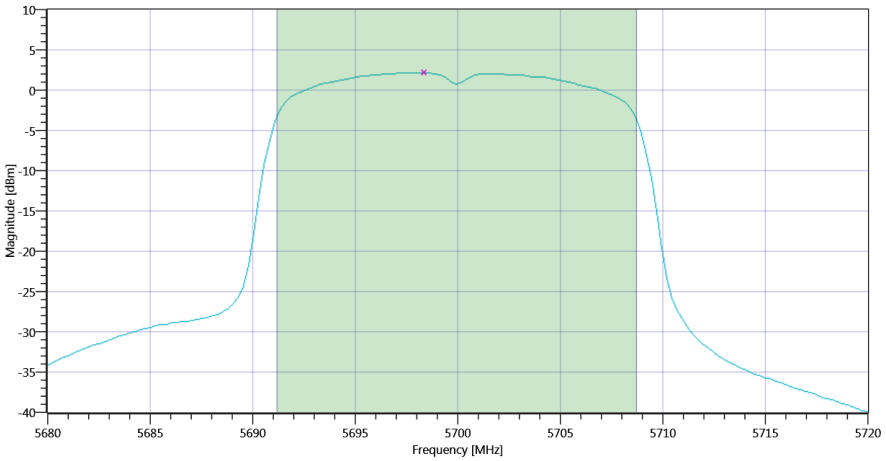


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C BW_06112020_100228.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	24.03 | 19.15 | 20
Start [MHz] | Stop [MHz]	5680.000 | 5720.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.29	dBm	INFO
Duty Cycle Correction	---	---	0.38	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.67	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.44	13.67	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD_06112020_100251.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	2.14	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.38	dB	INFO
Power Spectral Density DC corrected	---	11	2.52	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 10:02:54 / RT: 51 s	PASS

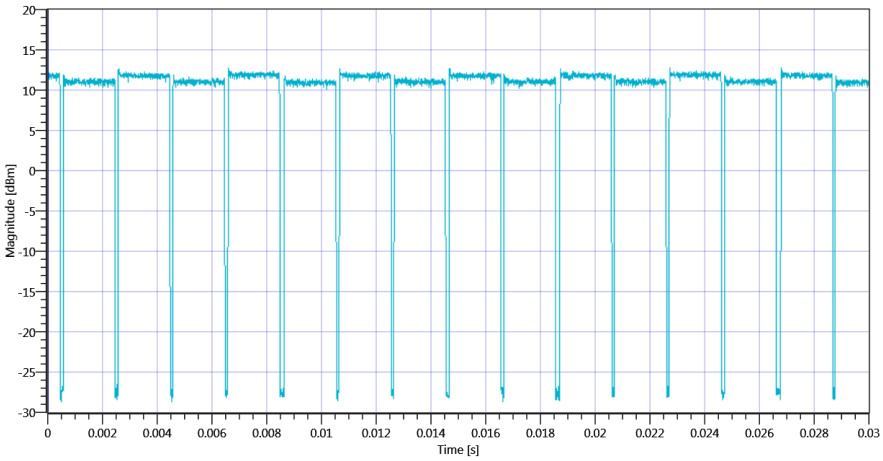
22. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3

Test References	
TC Start	06.11.2020 10:05:52
Ambit Temp [°C] | Humidity [rel%]	24.9 | 26
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5745
Frequency mid to test	False | Freq [MHz] 5785
Frequency high to test	False | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

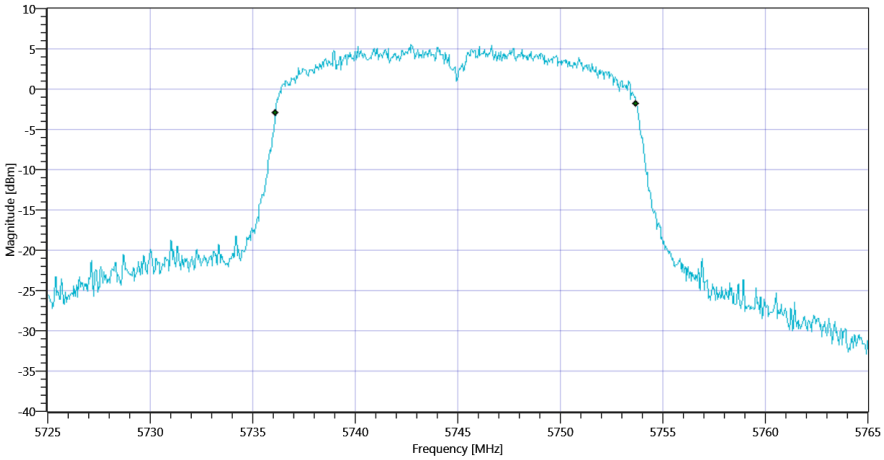
Test at TX 5745 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 5745 MHz - DutyCycle_06112020_100609.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.582	MHz	INFO
T1 99%	---	---	5736.1289	MHz	INFO
T2 99%	---	---	5753.7113	MHz	INFO

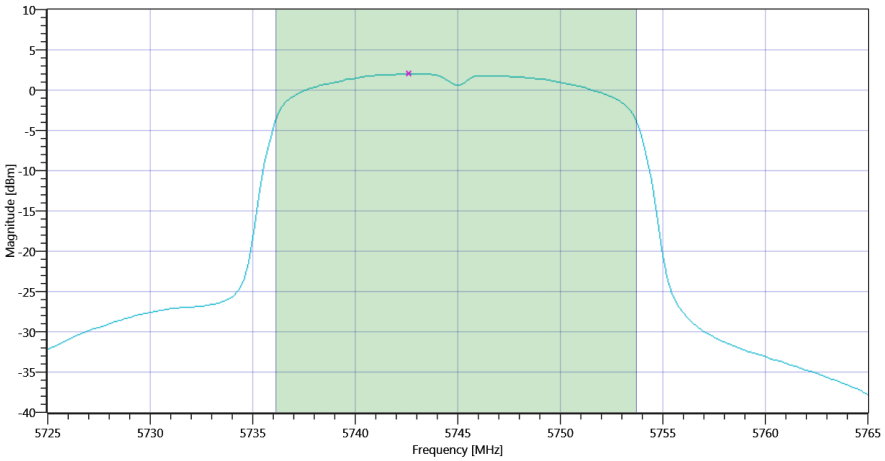


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 BW_06112020_100618.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.15 | 18.79 | 20
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	16000 | 1 | 160 | SWE

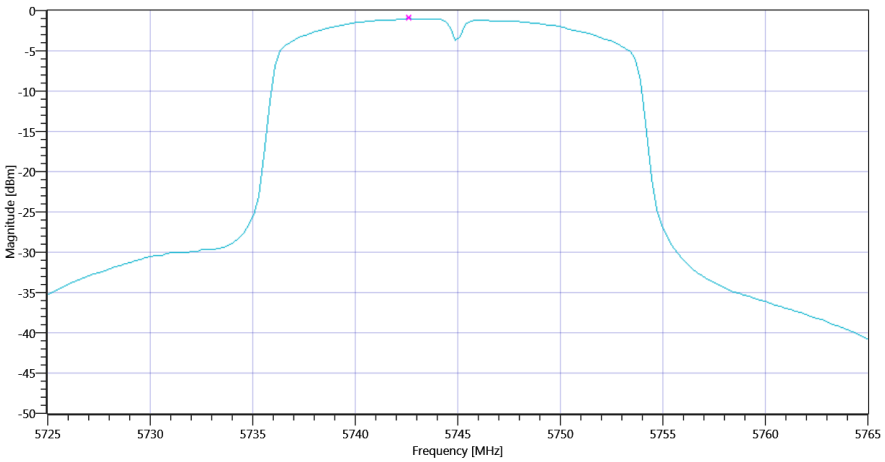
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.13	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	13.54	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.45	13.54	dBm	not applicable



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD_06112020_100642.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.15 | 18.79 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-1	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	30	-0.59	dBm/0.5MHz	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3_06112020_100704.png

TEST FINISHED		
General Verdict	06.11.2020 10:07:05 / RT: 72 s	PASS

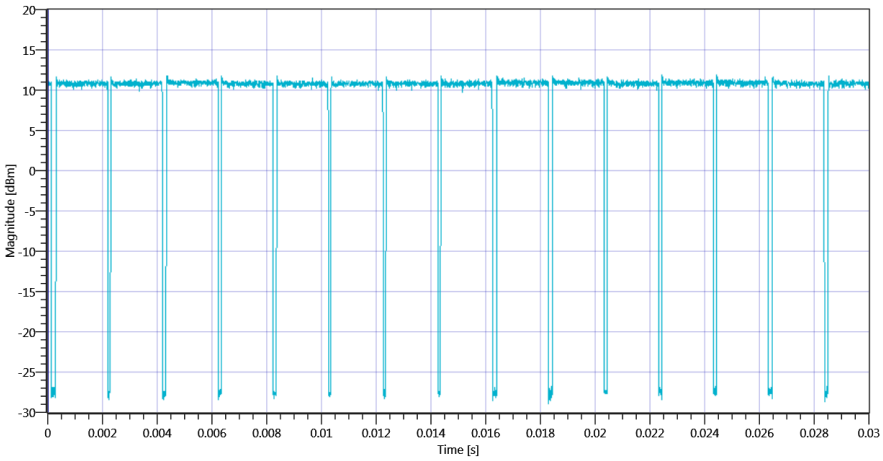
23. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3

Test References	
TC Start	06.11.2020 10:10:50
Ambit Temp [°C] | Humidity [rel%]	24.9 | 26
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5745
Frequency mid to test	True | Freq [MHz] 5785
Frequency high to test	False | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

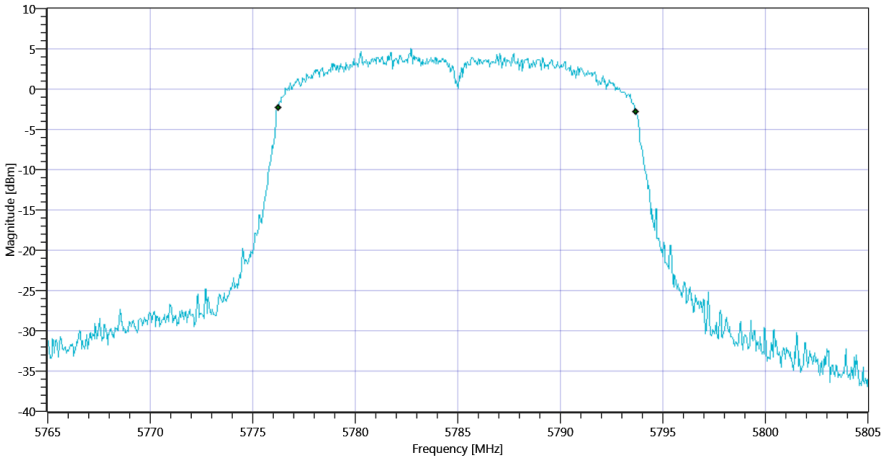
Test at TX 5785 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:14					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.923	---	INFO
Duty Cycle min	---	---	0.348	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.158	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 5785 MHz - DutyCycle_06112020_101108.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.423	MHz	INFO
T1 99%	---	---	5776.2488	MHz	INFO
T2 99%	---	---	5793.6713	MHz	INFO

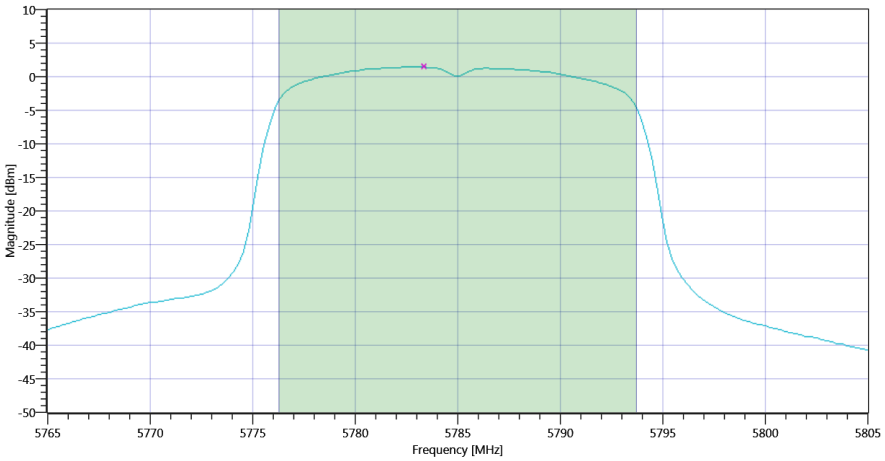


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 BW_06112020_101116.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.33 | 18.77 | 20
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	16000 | 1 | 160 | SWE

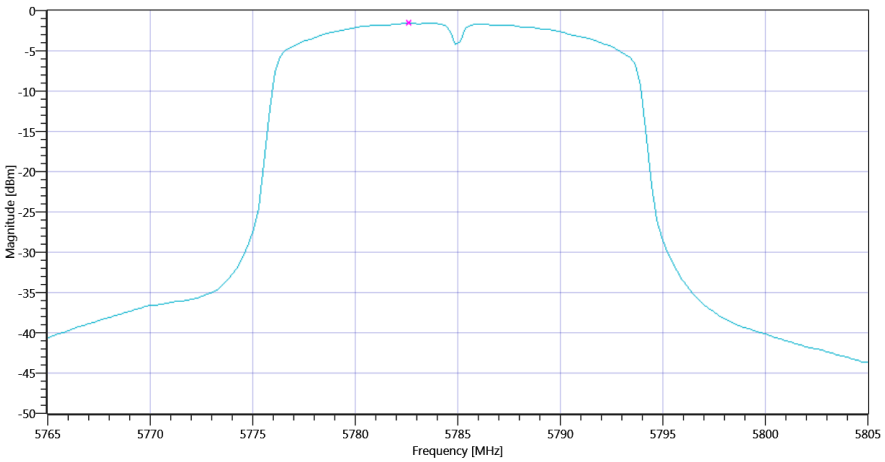
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.52	dBm	INFO
Duty Cycle Correction	---	---	0.35	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	12.87	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.41	12.87	dBm	not applicable



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD_06112020_101140.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.33 | 18.77 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-1.58	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.35	dB	INFO
Power Spectral Density DC corrected	---	30	-1.23	dBm/0.5MHz	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3_06112020_101202.png

TEST FINISHED		
General Verdict	06.11.2020 10:12:03 / RT: 72 s	PASS

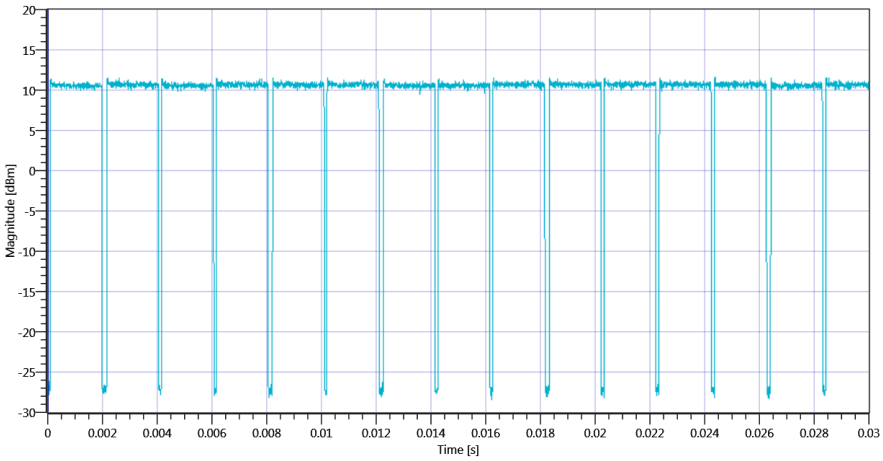
24. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3

Test References	
TC Start	06.11.2020 10:16:02
Ambit Temp [°C] | Humidity [rel%]	24.9 | 26
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5745
Frequency mid to test	False | Freq [MHz] 5785
Frequency high to test	True | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

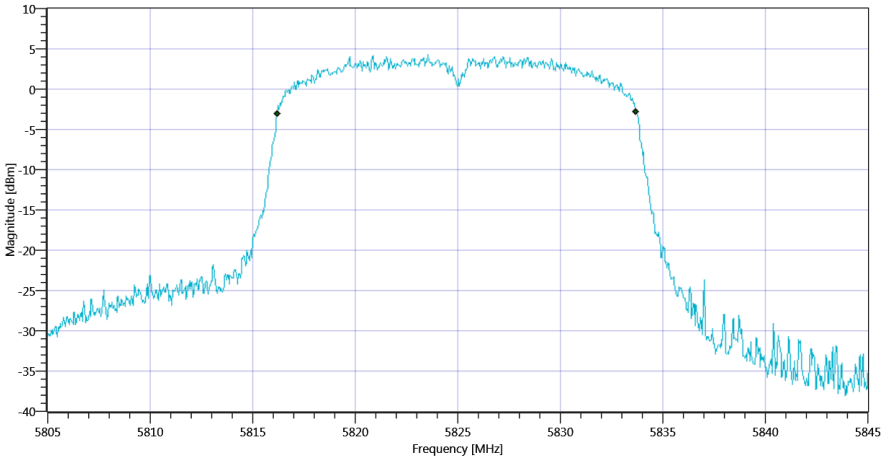
Test at TX 5825 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.944	---	INFO
Duty Cycle max	---	---	0.25	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.909	---	INFO
Duty Cycle min	---	---	0.414	dB	INFO
Max TX Burst Length	---	---	1.883	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 5825 MHz - DutyCycle_06112020_101619.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.502	MHz	INFO
T1 99%	---	---	5816.2088	MHz	INFO
T2 99%	---	---	5833.7113	MHz	INFO

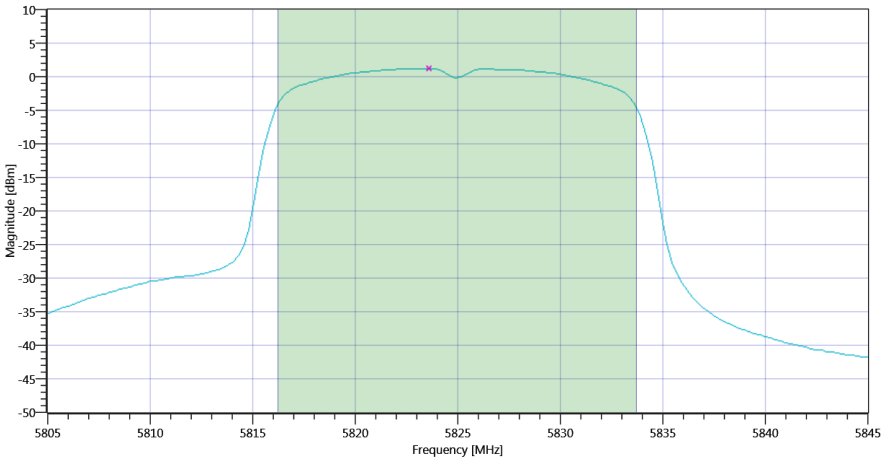


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 BW_06112020_101628.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.50 | 19.08 | 20
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	16000 | 1 | 160 | SWE

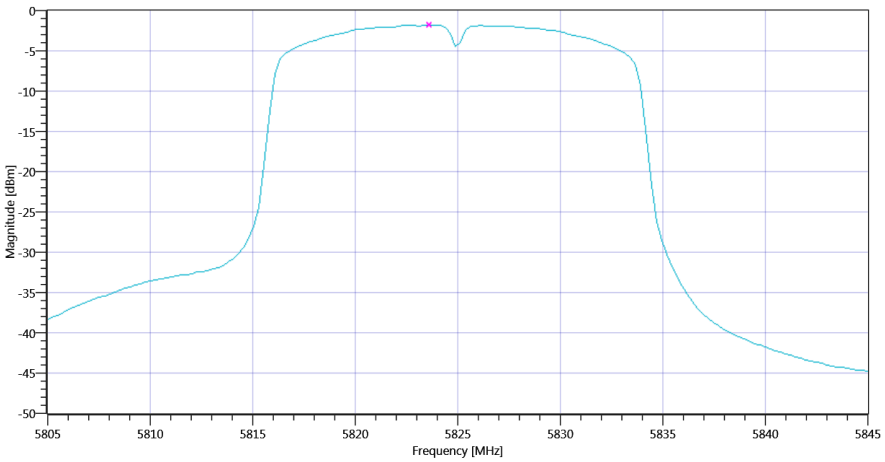
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.34	dBm	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	12.75	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.43	12.75	dBm	not applicable



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD_06112020_101652.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.50 | 19.08 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-1.82	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.41	dB	INFO
Power Spectral Density DC corrected	---	30	-1.41	dBm/0.5MHz	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3_06112020_101714.png

TEST FINISHED		
General Verdict	06.11.2020 10:17:15 / RT: 72 s	PASS

25. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1

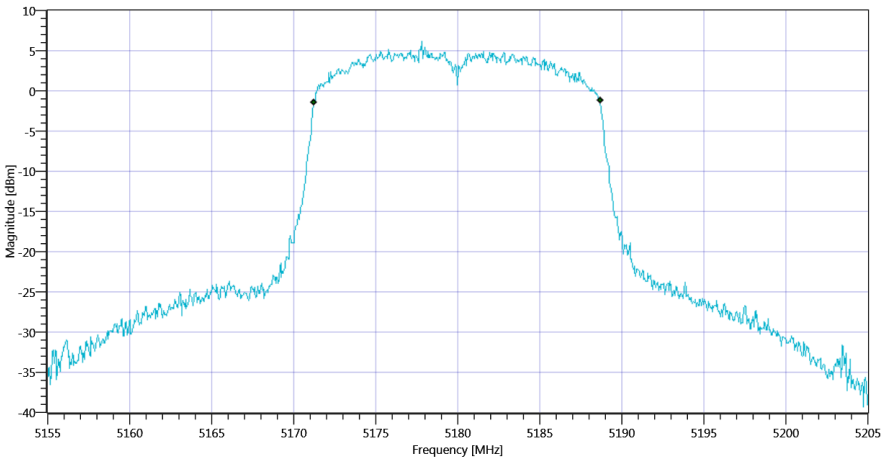
Test References	
TC Start	06.11.2020 09:33:46
Ambit Temp [°C] | Humidity [rel%]	24.6 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

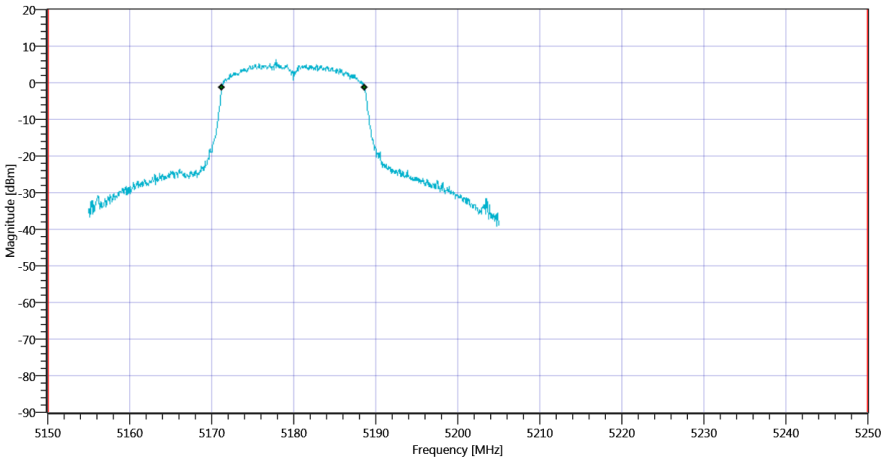
Test at TX 5180 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.35 | 18.86 | 15
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%	---	---	17.483	MHz	INFO
T1 99%	5150.000000	---	5171.2088	MHz	PASS
T2 99%	---	5250.000000	5188.6913	MHz	PASS

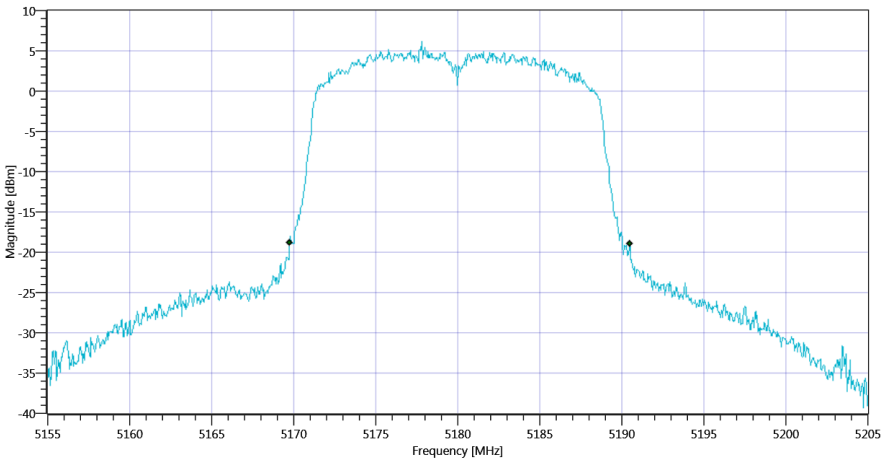


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1 99PCT_06112020_093415.png

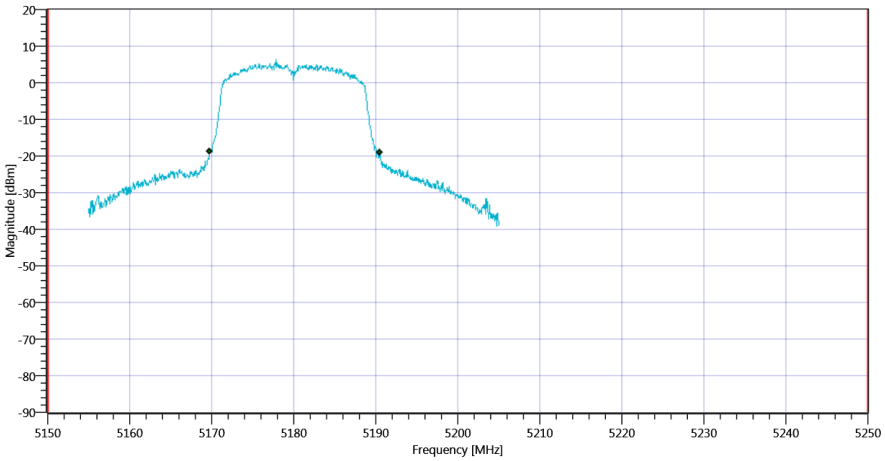


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1_06112020_093418.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.75	MHz	INFO
T1 26dB	5150.000000	---	5169.7500	MHz	PASS
T2 26dB	---	5250.000000	5190.5000	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1 26dB_06112020_093423.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1_06112020_093426.png

TEST FINISHED		
General Verdict	06.11.2020 09:34:27 / RT: 41 s	PASS

26. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1

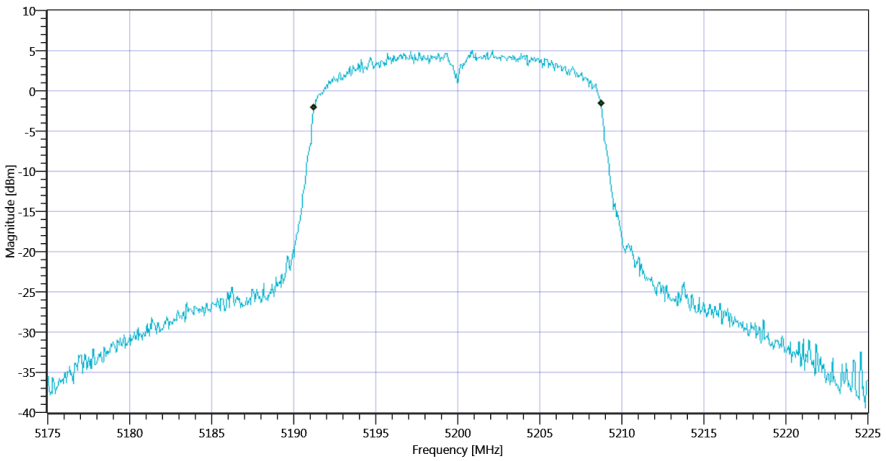
Test References	
TC Start	06.11.2020 09:38:23
Ambit Temp [°C] | Humidity [rel%]	24.6 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	True | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

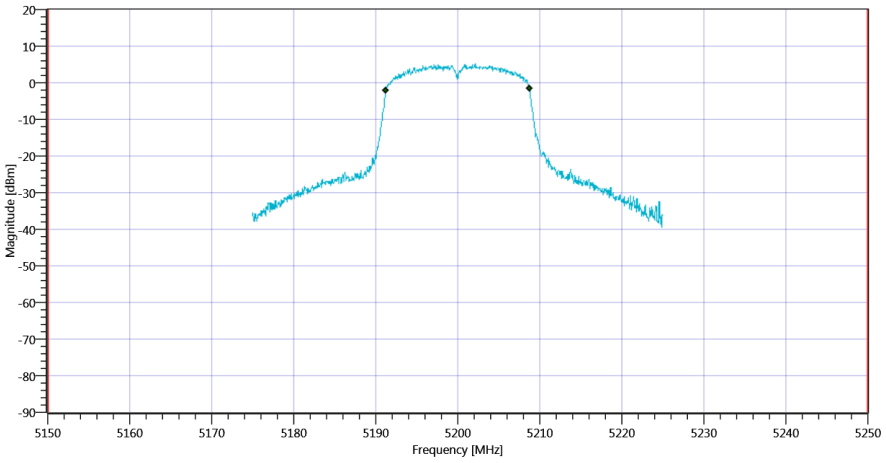
Test at TX 5200 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.07 | 19.04 | 15
Start [MHz] | Stop [MHz]	5175.000 | 5225.000
RBW [MHz] | VBW [MHz]	0.300000 | 1.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.483	MHz	INFO
T1 99%	5150.000000	---	5191.2587	MHz	PASS
T2 99%	---	5250.000000	5208.7413	MHz	PASS

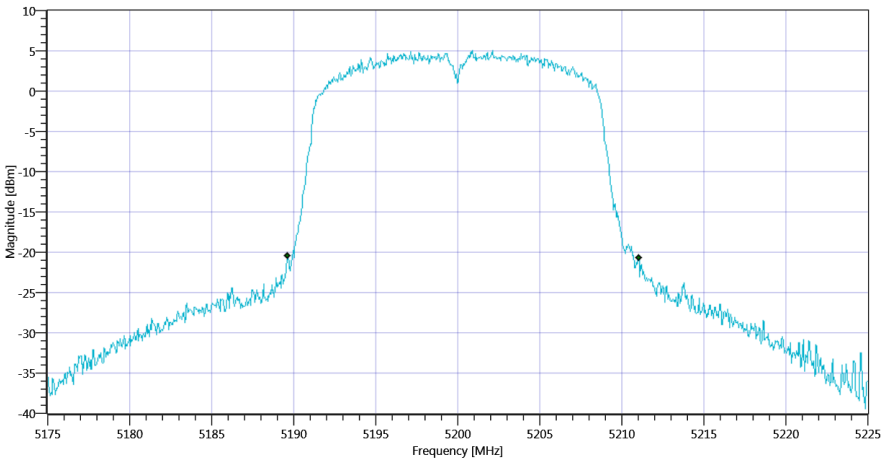


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1 99PCT_06112020_093852.png

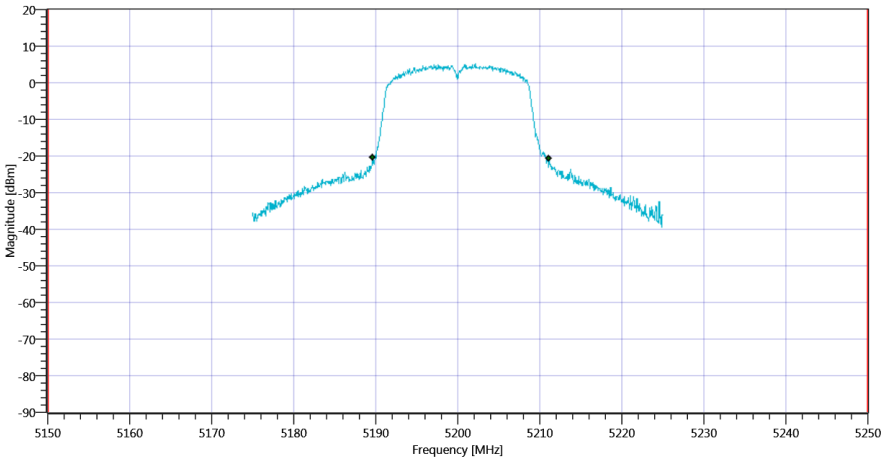


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1_06112020_093855.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.45	MHz	INFO
T1 26dB	5150.000000	---	5189.6000	MHz	PASS
T2 26dB	---	5250.000000	5211.0500	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1 26dB_06112020_093900.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1_06112020_093903.png

TEST FINISHED		
General Verdict	06.11.2020 09:39:04 / RT: 41 s	PASS

27. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1

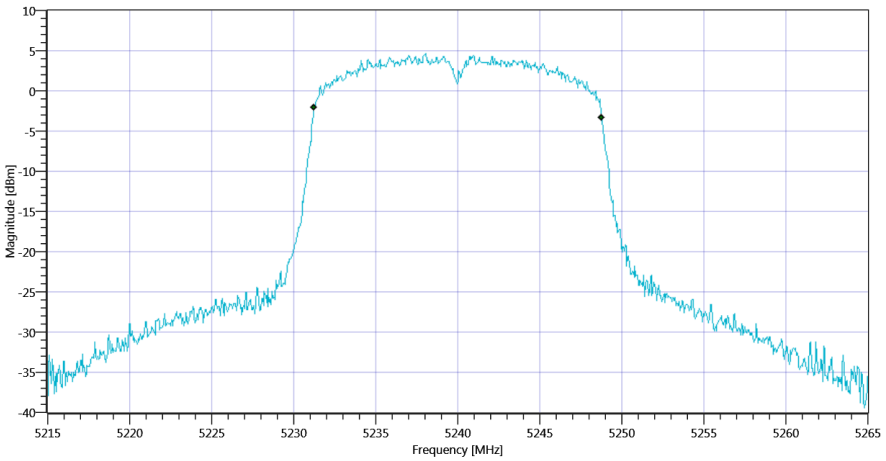
Test References	
TC Start	06.11.2020 09:42:08
Ambit Temp [°C] | Humidity [rel%]	24.7 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	True | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

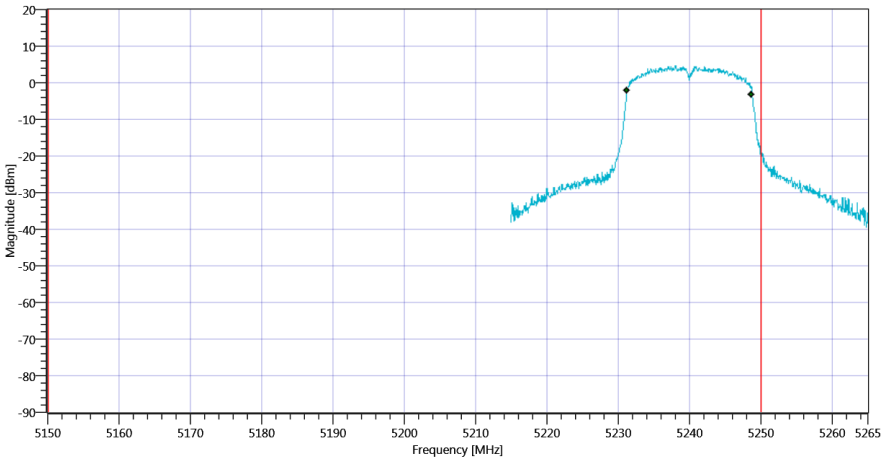
Test at TX 5240 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.38 | 18.96 | 15
Start [MHz] | Stop [MHz]	5215.000 | 5265.000
RBW [MHz] | VBW [MHz]	0.300000 | 1.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.483	MHz	INFO
T1 99%	5150.000000	---	5231.2587	MHz	PASS
T2 99%	---	5250.000000	5248.7413	MHz	PASS

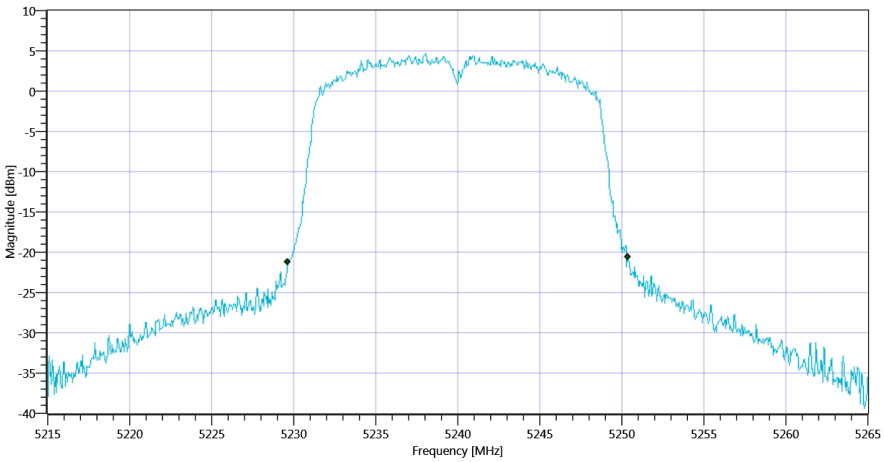


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1 99PCT_06112020_094231.png

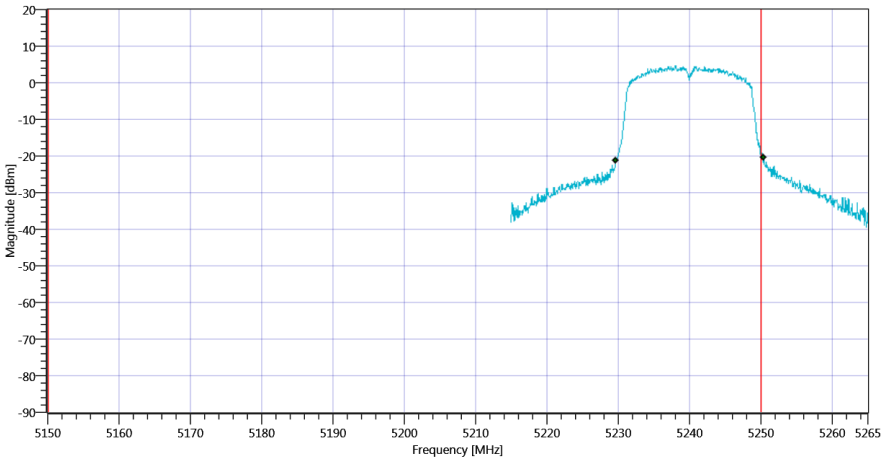


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1_06112020_094234.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.75	MHz	INFO
T1 26dB	5150.000000	---	5229.6500	MHz	PASS
T2 26dB	---	5250.000000	5250.4000	MHz	DFS required



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1 26dB_06112020_094239.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-1_06112020_094243.png

TEST FINISHED		
General Verdict	06.11.2020 09:42:43 / RT: 35 s	PASS

28. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-2A

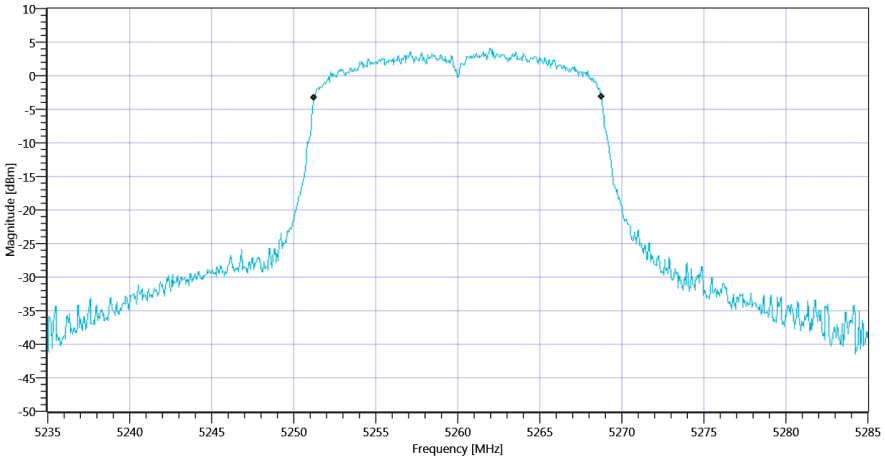
Test References	
TC Start	06.11.2020 09:45:34
Ambit Temp [°C] | Humidity [rel%]	24.7 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

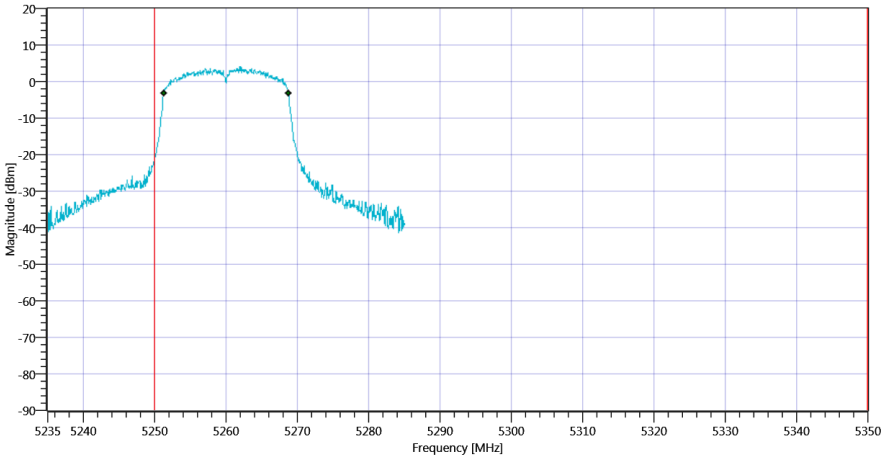
Test at TX 5260 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.83 | 18.88 | 15
Start [MHz] | Stop [MHz]	5235.000 | 5285.000
RBW [MHz] | VBW [MHz]	0.300000 | 1.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.483	MHz	INFO
T1 99%	5250.000000	---	5251.2587	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5268.7413	MHz	PASS

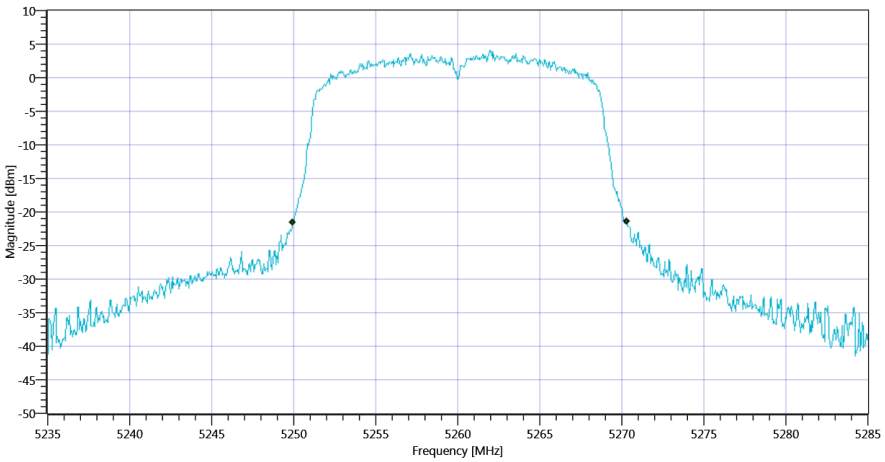


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-2A 99PCT_06112020_094556.png

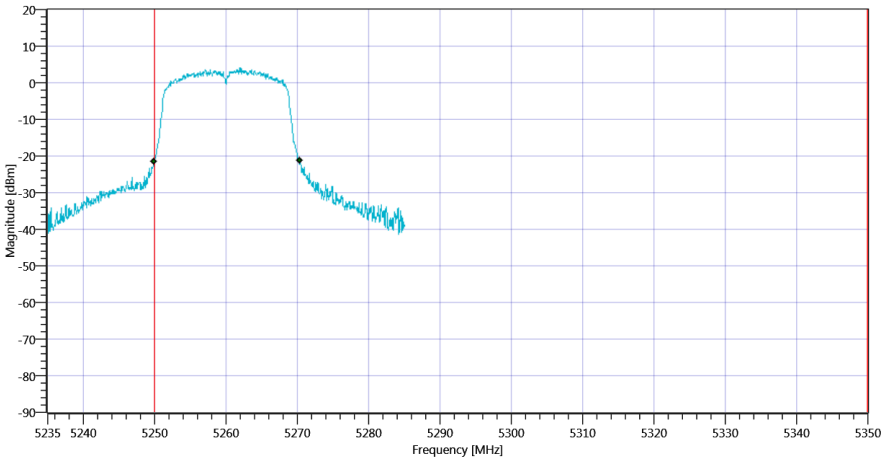


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-2A_06112020_094600.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.35	MHz	INFO
T1 26dB	5250.000000	---	5249.9500	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5270.3000	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-2A 26dB_06112020_094605.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-2A_06112020_094608.png

TEST FINISHED		
General Verdict	06.11.2020 09:46:09 / RT: 34 s	PASS

29. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-2A

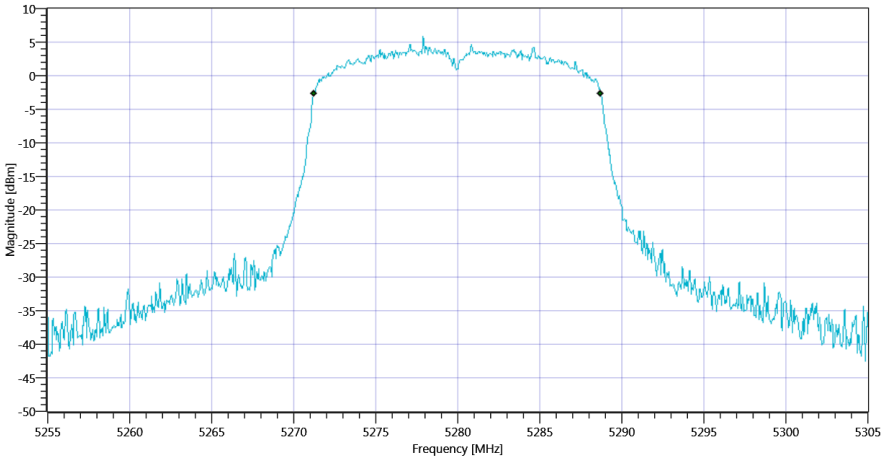
Test References	
TC Start	06.11.2020 09:48:55
Ambit Temp [°C] | Humidity [rel%]	24.7 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	True | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

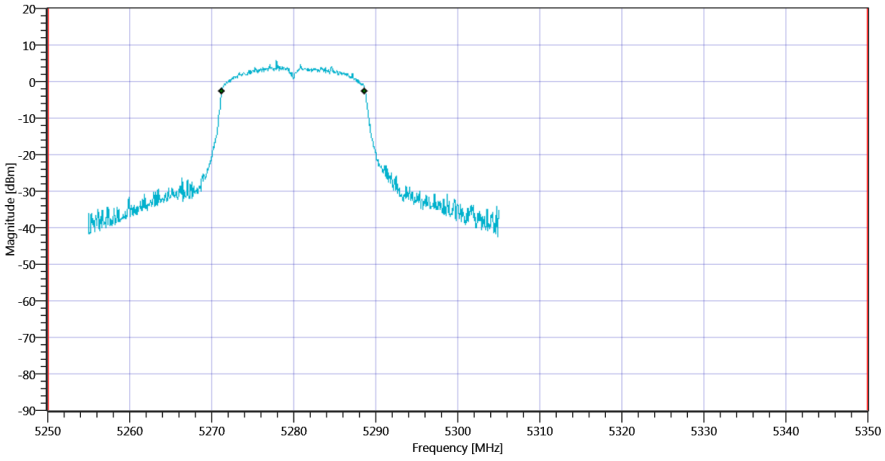
Test at TX 5280 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.13 | 18.75 | 15
Start [MHz] | Stop [MHz]	5255.000 | 5305.000
RBW [MHz] | VBW [MHz]	0.300000 | 1.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.433	MHz	INFO
T1 99%	5250.000000	---	5271.2587	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5288.6913	MHz	PASS

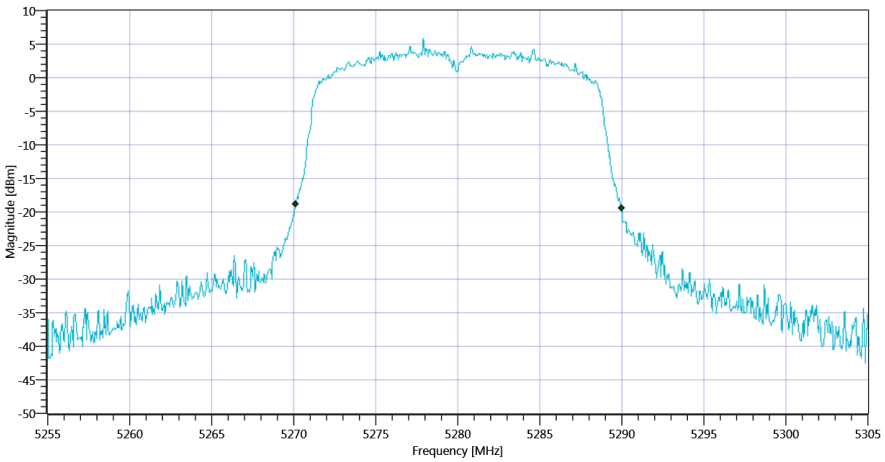


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-2A 99PCT_06112020_094917.png

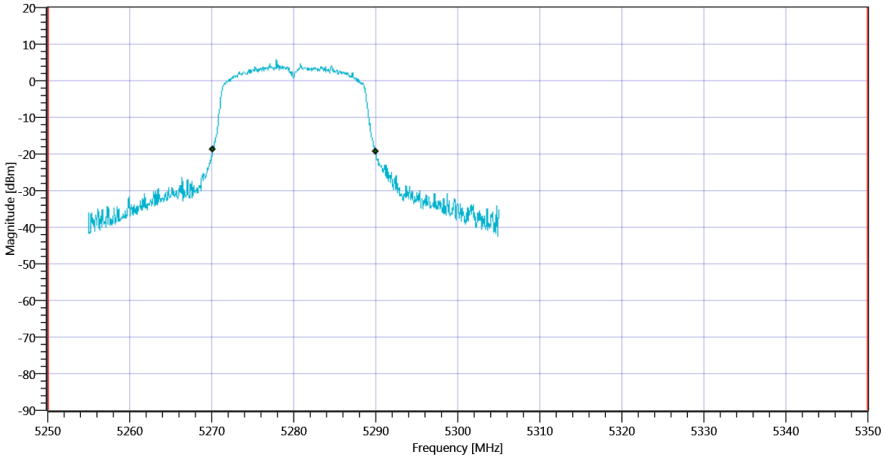


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-2A_06112020_094921.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	19.9	MHz	INFO
T1 26dB	5250.000000	---	5270.1000	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5290.0000	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-2A 26dB_06112020_094926.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-2A_06112020_094929.png

TEST FINISHED		
General Verdict	06.11.2020 09:49:30 / RT: 34 s	PASS

30. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx n-HT20 mode U-NII-2A

Test References	
TC Start	06.11.2020 09:52:22
Ambit Temp [°C] | Humidity [rel%]	24.8 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	True | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60