Measurement Results

1-9148/19-01-04_Annex_MR_A_1

Test logging

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Document authorized:

Mihail Dorongovskij
Lab Manager
Radio Communications & EMC

Table of Content

IUT Summary

IUT DEFINITION & Common settings	
Manufacturer	Ingenico Group
Type	Lane/3000 CL/Eth/WiFi/BT
Serial No. | Setup No.	18139731301107060269550 | 1.0
SW Version | HW Version	NI | NI
Comment 1 | 2	|
Tlow | Tmid | Thigh [°C]	0 | 20 | 40
Vlow | Vmid | Vhigh [V] @Imax [A]	8 | 8 | 8 @1
Auto Control enabled Power Supply | Climatic Box	No | No
Antenna Gain [dBi]	0
Additional Path Loss [dB]	0

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

1. Peak OP 3MHz/3MHz ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	15.01.2020 14:55:50
System Version	1.0.0.29
Test Specification	---
Test Method	
Class / TC Version / TC ID	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1 | TCID_FCC15407_5
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5180 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	12.86 | 11.16 | 20
Start [MHz] | Stop [MHz]	5155.000 | 5205.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT:	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	5.73	dBm	Information
Peak Power	---	---	3.741106	mW	Information
Frequency at Peak	---	---	5178.202	MHz	Information
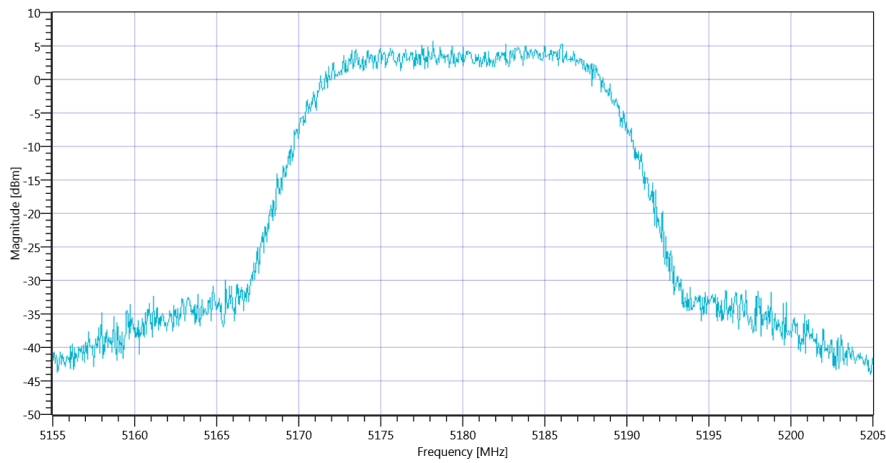
Plot_Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-1_15012020_145606.png

TEST FINISHED		
General Verdict	15.01.2020 14:56:07 / RT: 17 s	PASS

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

Test References	
TC Start	15.01.2020 14:56:12
System Version	1.0.0.29
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 | TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5180 MHz

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

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit		Verdict
Bandwidth 26dB	---	---	20.12	MHz		Information
T1 26dB	---	---	5169.9200	MHz		Information
T2 26dB	---	---	5190.0400	MHz		Information
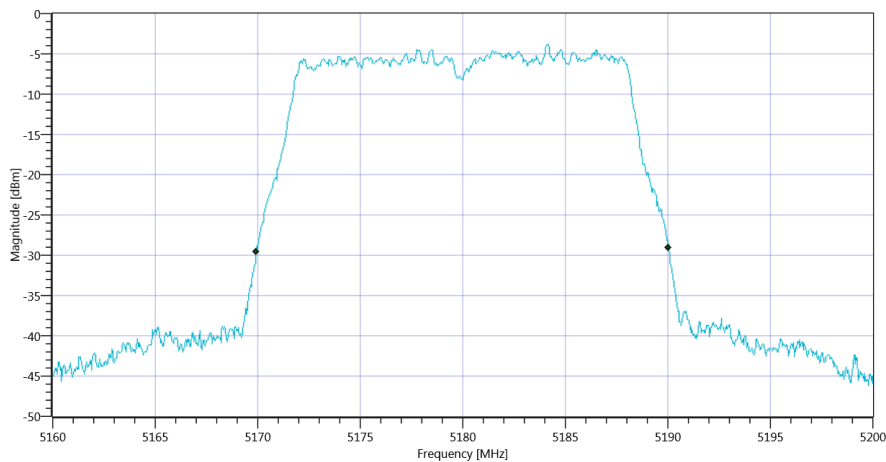
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_15012020_145636.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	12.92 | 11.16 | 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:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit		Verdict
Max Output Power	---	---	4.81	dBm		Information
Duty Cycle Correction	---	---	0	dB		Information
Limit absolute						
Max Output Power DC corrected	---	24	4.81	dBm		PASS
Limit by: 11 dBm + 10 log Bandwidth						
Max Output Power DC corrected	---	24.04	4.81	dBm		PASS
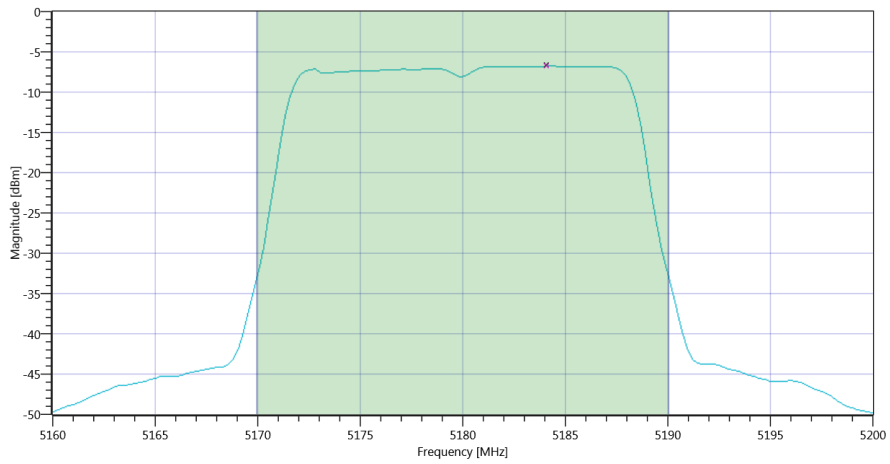
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_15012020_145659.png

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.8	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-6.8	dBm/1MHz	PASS

TEST FINISHED			
General Verdict		15.01.2020 14:57:01 / RT: 49 s	PASS

3. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	15.01.2020 14:57:06
System Version	1.0.0.29
Test Specification	ISED
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5180 MHz

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

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.783	MHz	Information
T1 99%	---	---	5171.5684	MHz	Information
T2 99%	---	---	5188.3516	MHz	Information
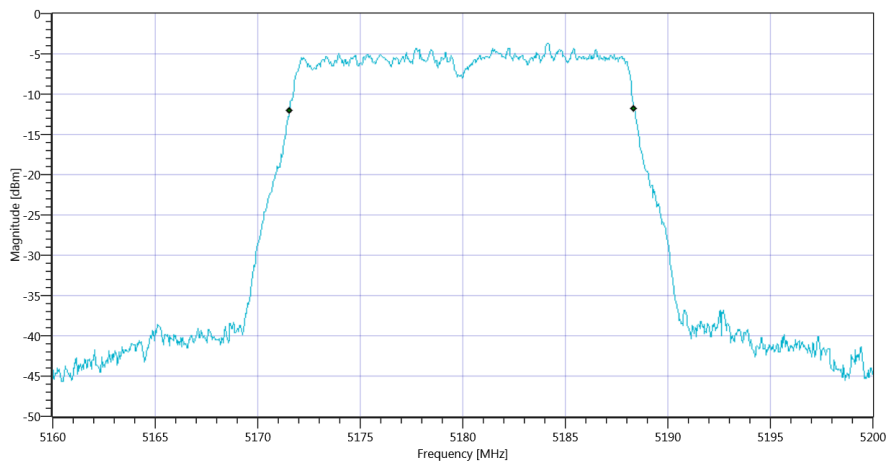
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_15012020_145731.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	12.65	11.16	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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	4.76	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	4.76	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.25	4.76	dBm	PASS
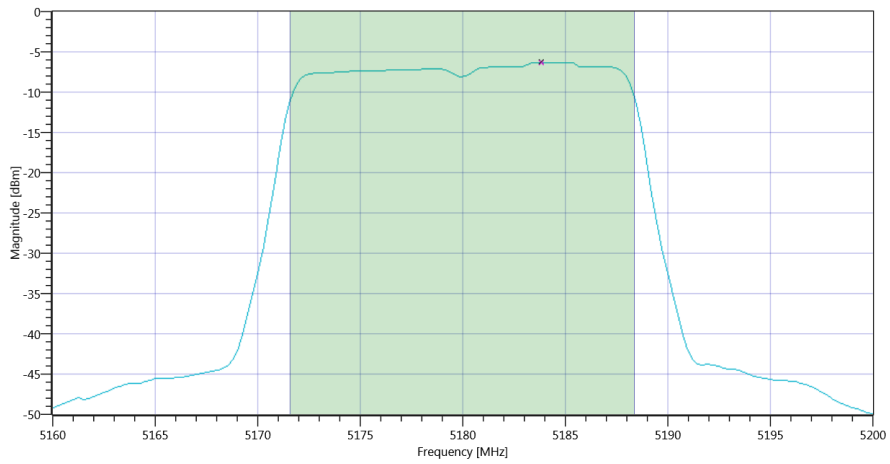
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_15012020_145754.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.35	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-6.35	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 14:57:56 / RT: 50 s	PASS

4. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	15.01.2020 14:58:00
System Version	1.0.0.29
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version / TC ID	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1	TCID_FCC15407_1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5180 MHz

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	8.96	11.16	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: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.083	MHz	Information
T1 99%	5150.000000	---	5171.5584	MHz	PASS
T2 99%	---	5250.000000	5188.6414	MHz	PASS
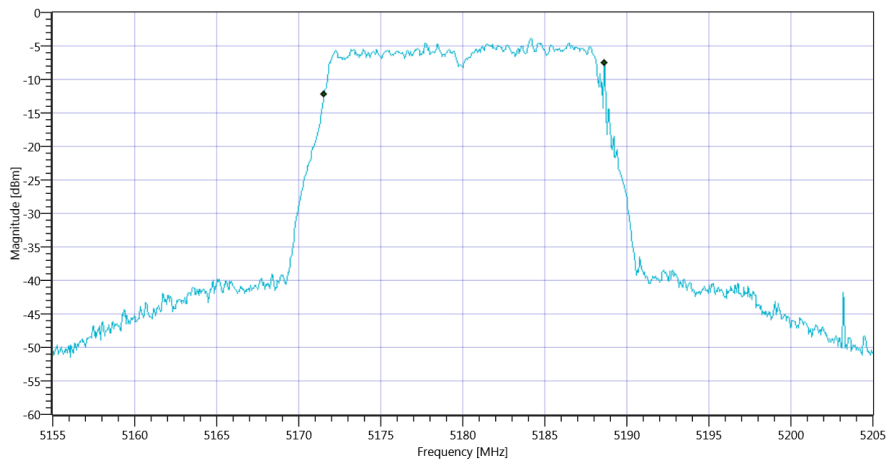
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 99PCT_15012020_150213.png
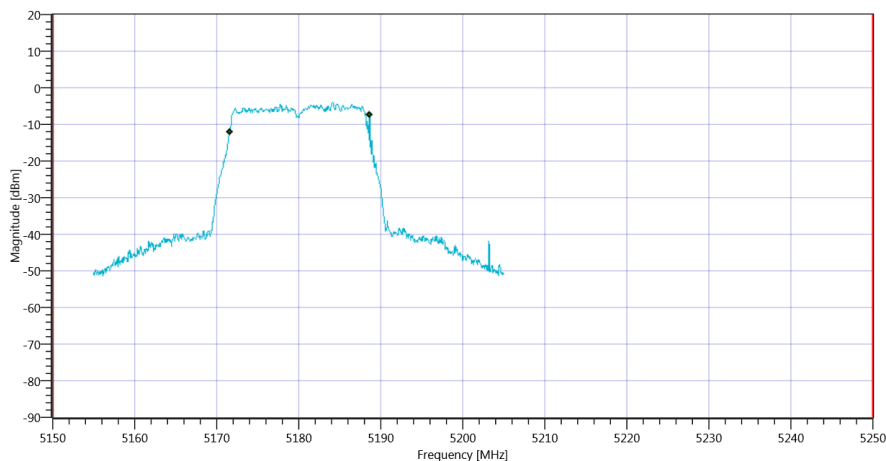
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_15012020_150217.png

RESULT: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.15	MHz	Information
T1 26dB	5150.000000	---	5169.9500	MHz	PASS
T2 26dB	---	5250.000000	5190.1000	MHz	PASS
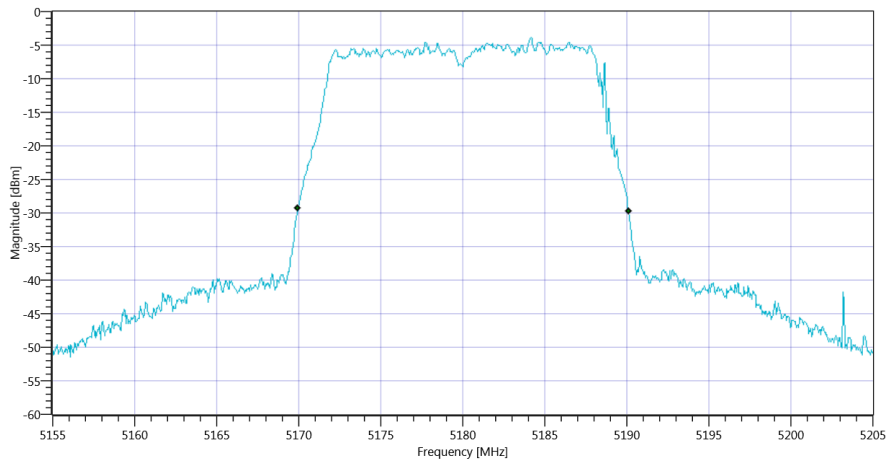
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 26dB_15012020_150222.png
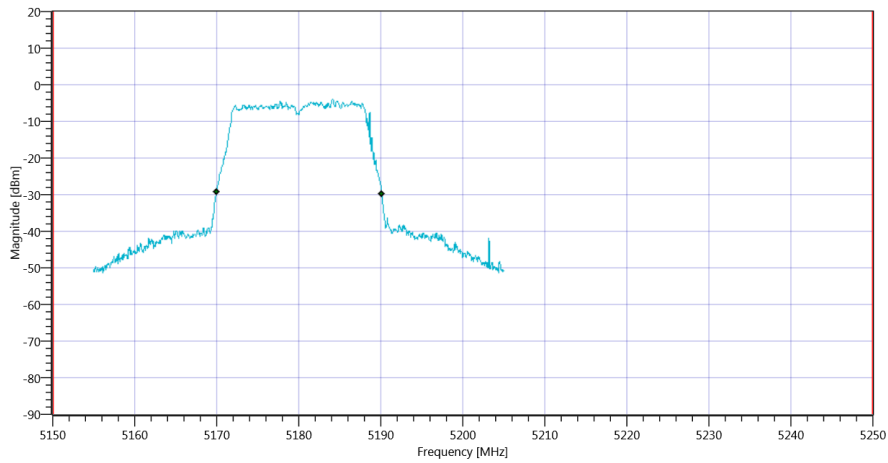
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_15012020_150226.png

TEST FINISHED		
General Verdict	15.01.2020 15:02:27 / RT: 266 s	PASS

5. Peak OP 3MHz/3MHz ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	15.01.2020 15:11:18
System Version	1.0.0.29
Test Specification	---
Test Method	
Class / TC Version / TC ID	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1	TCID_FCC15407_5
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5200 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	12.87 | 11.19 | 20
Start [MHz] | Stop [MHz]	5175.000 | 5225.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT: TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	5.87	dBm	Information
Peak Power	---	---	3.86367	mW	Information
Frequency at Peak	---	---	5203.796	MHz	Information
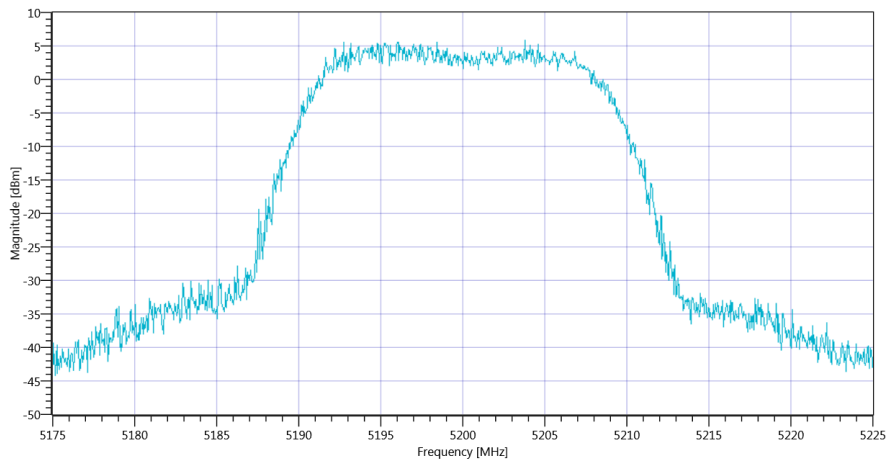
Plot_Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-1_15012020_151135.png

TEST FINISHED		
General Verdict	15.01.2020 15:11:35 / RT: 17 s	PASS

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

Test References	
TC Start	15.01.2020 15:11:40
System Version	1.0.0.29
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5200 MHz

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

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.12	MHz	Information
T1 26dB	---	---	5189.8800	MHz	Information
T2 26dB	---	---	5210.0000	MHz	Information
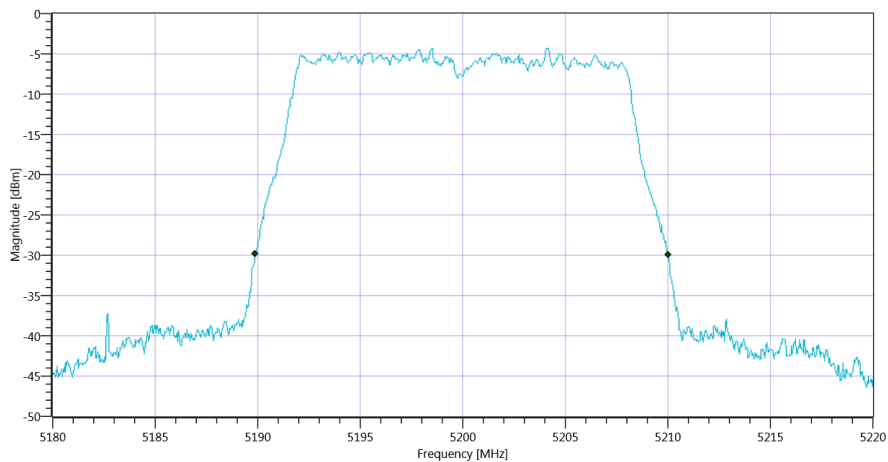
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_15012020_151201.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.08 | 11.19 | 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:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	4.7	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	4.7	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.04	4.7	dBm	PASS
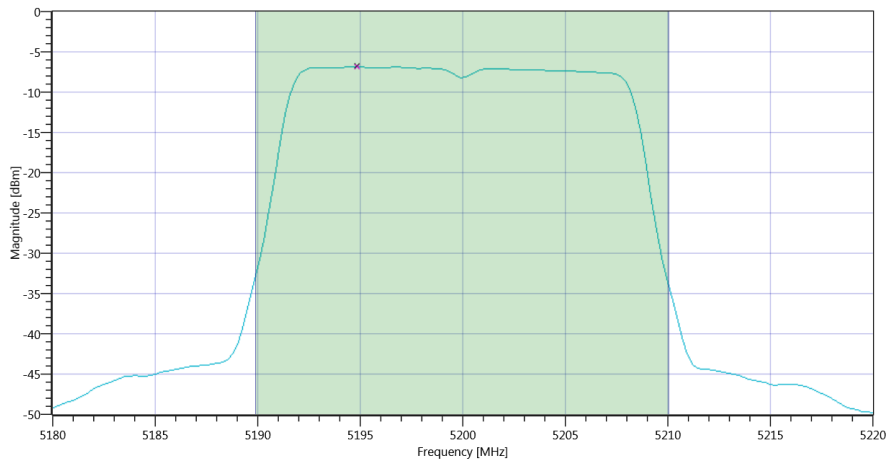
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_15012020_151224.png

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.91	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-6.91	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:12:27 / RT: 46 s	PASS

7. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	15.01.2020 15:12:31
System Version	1.0.0.29
Test Specification	ISED
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5200 MHz

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

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit		Verdict
Bandwidth 99%	---	---	16.783	MHz		Information
T1 99%	---	---	5191.5285	MHz		Information
T2 99%	---	---	5208.3117	MHz		Information
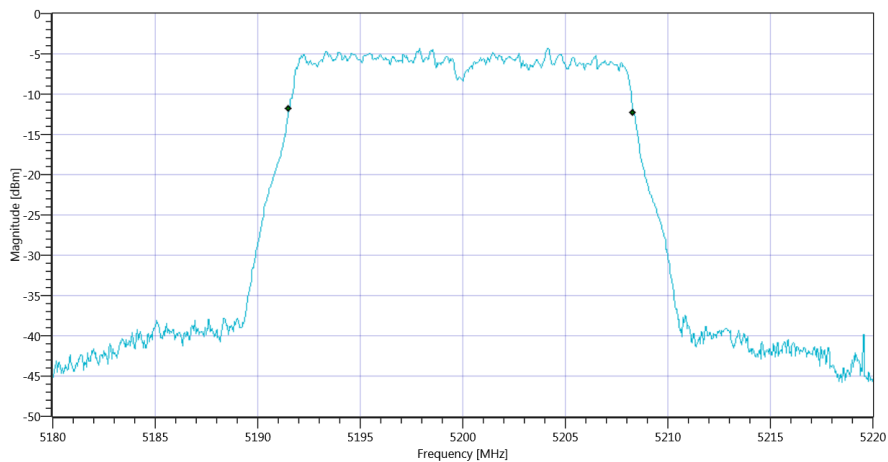
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_15012020_151252.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	12.82 | 11.19 | 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:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit		Verdict
Max Output Power	---	---	4.62	dBm		Information
Duty Cycle Correction	---	---	0	dB		Information
Limit absolute						
Max Output Power DC corrected	---	24	4.62	dBm		PASS
Limit by: 11 dBm + 10 log Bandwidth						
Max Output Power DC corrected	---	23.25	4.62	dBm		PASS
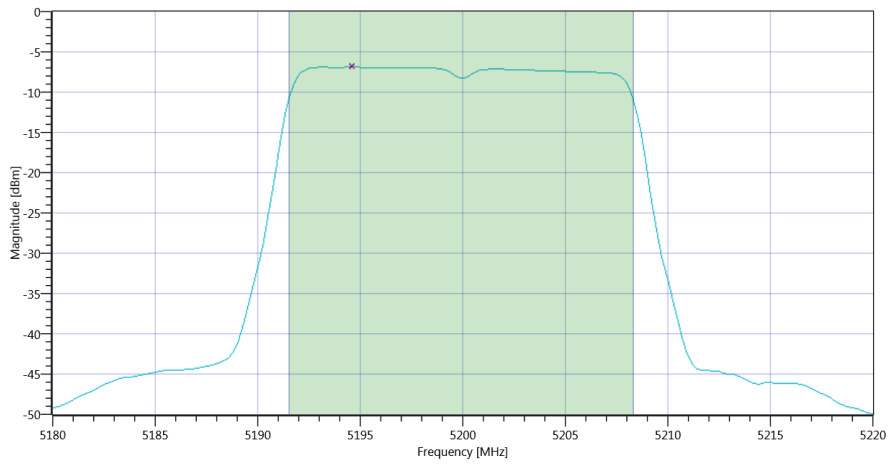
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_15012020_151316.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.92	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-6.92	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:13:18 / RT: 47 s	PASS

8. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	15.01.2020 15:13:22
System Version	1.0.0.29
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version / TC ID	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1	TCID_FCC15407_1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5200 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.36 | 11.19 | 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: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.833	MHz	Information
T1 99%	5150.000000	---	5191.5085	MHz	PASS
T2 99%	---	5250.000000	5208.3417	MHz	PASS
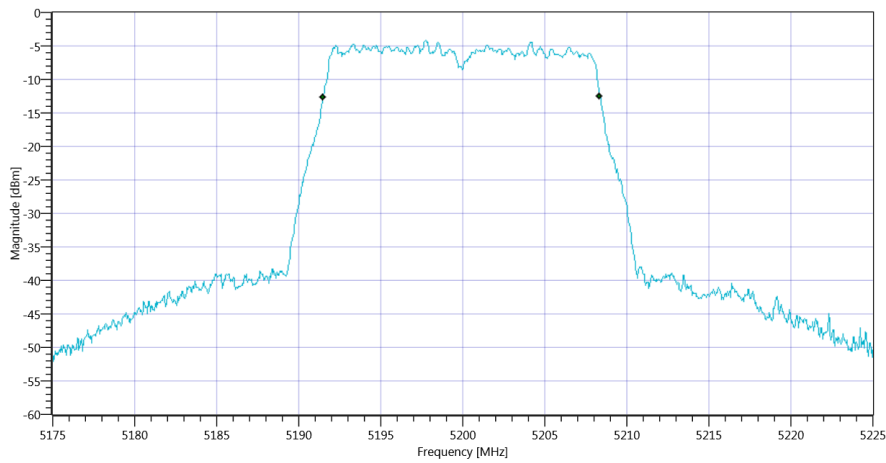
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 99PCT_15012020_151351.png
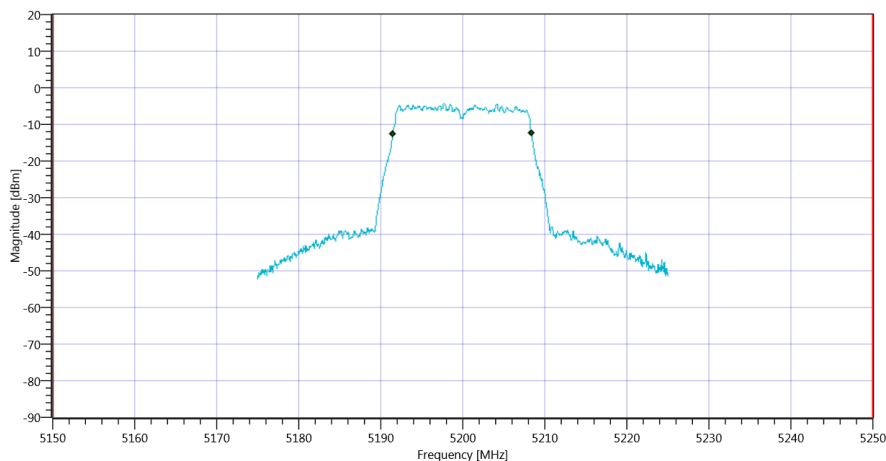
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_15012020_151355.png

RESULT: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.2	MHz	Information
T1 26dB	5150.000000	---	5189.8500	MHz	PASS
T2 26dB	---	5250.000000	5210.0500	MHz	PASS
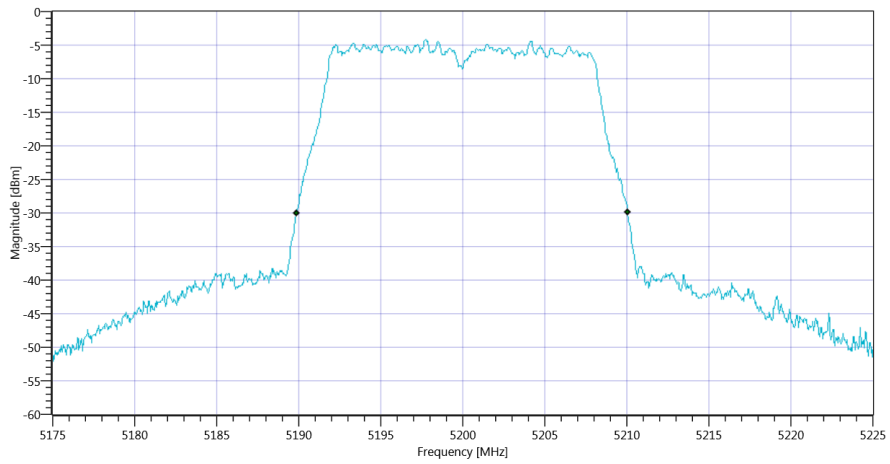
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 26dB_15012020_151400.png
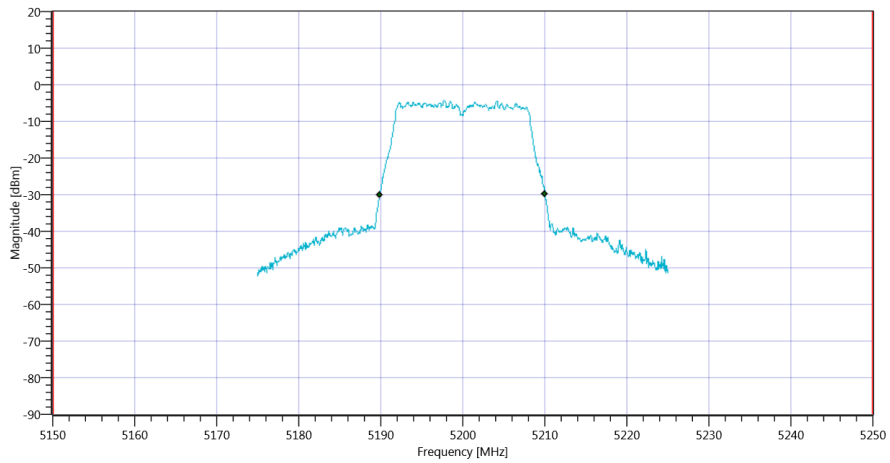
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_15012020_151404.png

TEST FINISHED		
General Verdict	15.01.2020 15:14:05 / RT: 42 s	PASS

9. Peak OP 3MHz/3MHz ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	15.01.2020 15:14:35
System Version	1.0.0.29
Test Specification	---
Test Method	
Class / TC Version / TC ID	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1 | TCID_FCC15407_5
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5240 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.36 | 11.31 | 20
Start [MHz] | Stop [MHz]	5215.000 | 5265.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT: TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	6.53	dBm	Information
Peak Power	---	---	4.497799	mW	Information
Frequency at Peak	---	---	5235.205	MHz	Information
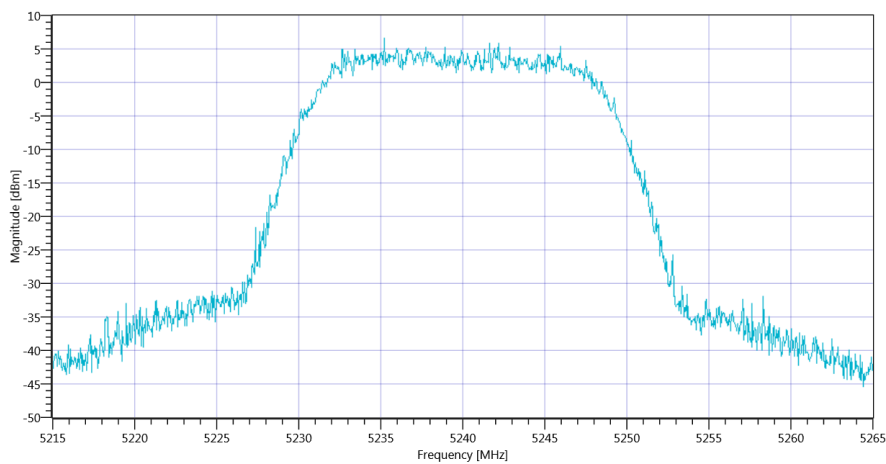
Plot_Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-1_15012020_151453.png

TEST FINISHED		
General Verdict	15.01.2020 15:14:53 / RT: 18 s	PASS

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

Test References	
TC Start	15.01.2020 15:14:58
System Version	1.0.0.29
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5240 MHz

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

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20	MHz	Information
T1 26dB	---	---	5229.8800	MHz	Information
T2 26dB	---	---	5249.8800	MHz	Information
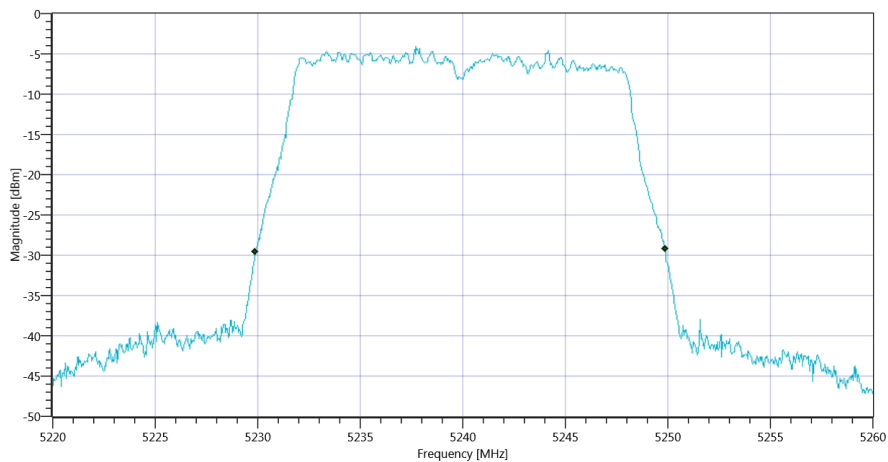
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_15012020_151520.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	12.91 | 11.31 | 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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	4.53	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	4.53	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.01	4.53	dBm	PASS
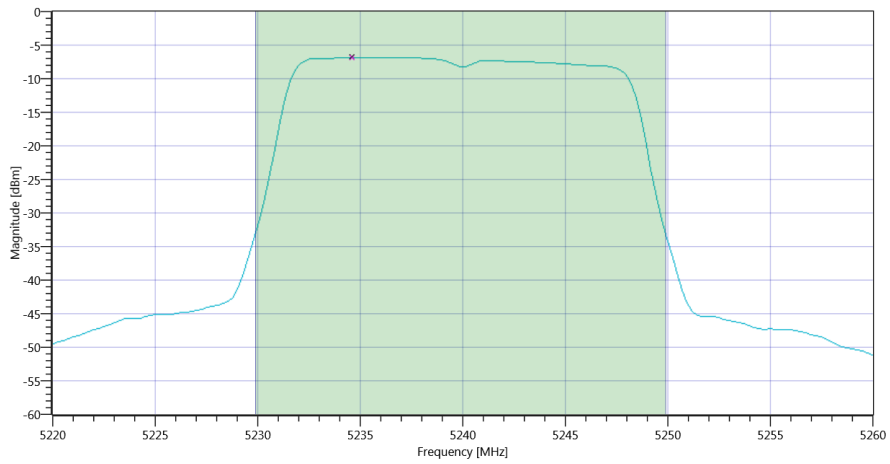
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_15012020_151543.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.91	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-6.91	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:15:45 / RT: 47 s	PASS

11. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	15.01.2020 15:15:50
System Version	1.0.0.29
Test Specification	ISED
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 | TCID_FCC15407_3
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

## Test at TX 5240 MHz

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

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.783	MHz	Information
T1 99%	---	---	5231.4885	MHz	Information
T2 99%	---	---	5248.2717	MHz	Information
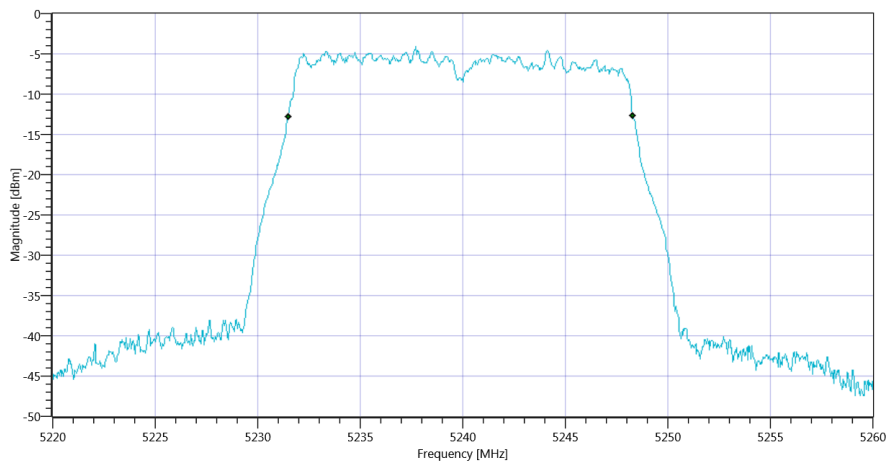
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_15012020_151611.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	12.58 | 11.31 | 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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	4.44	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	4.44	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.25	4.44	dBm	PASS
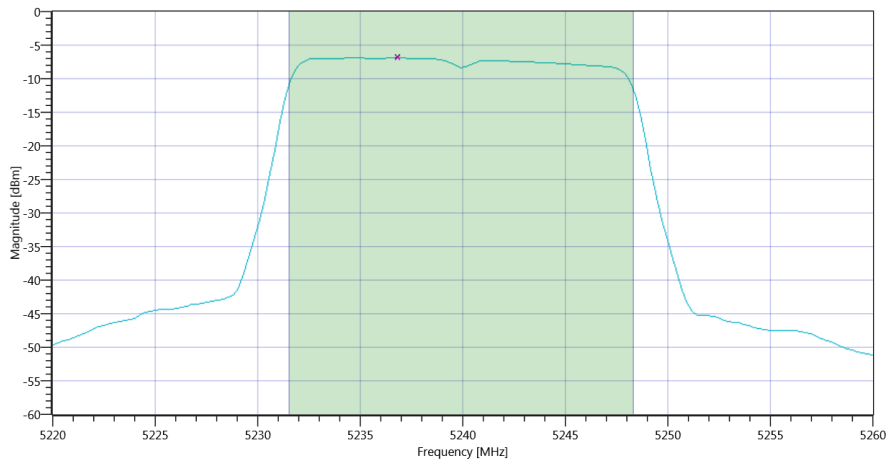
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_15012020_151635.png

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.93	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-6.93	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:16:37 / RT: 47 s	PASS

12. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	15.01.2020 15:16:42
System Version	1.0.0.29
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version / TC ID	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1	TCID_FCC15407_1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5240 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	8.52 | 11.31 | 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: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.783	MHz	Information
T1 99%	5150.000000	---	5231.5085	MHz	PASS
T2 99%	---	5250.000000	5248.2917	MHz	PASS
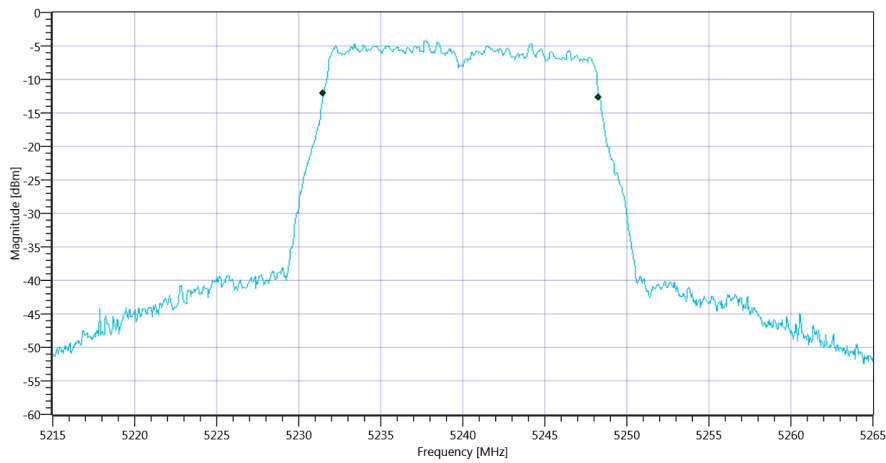
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 99PCT_15012020_151704.png
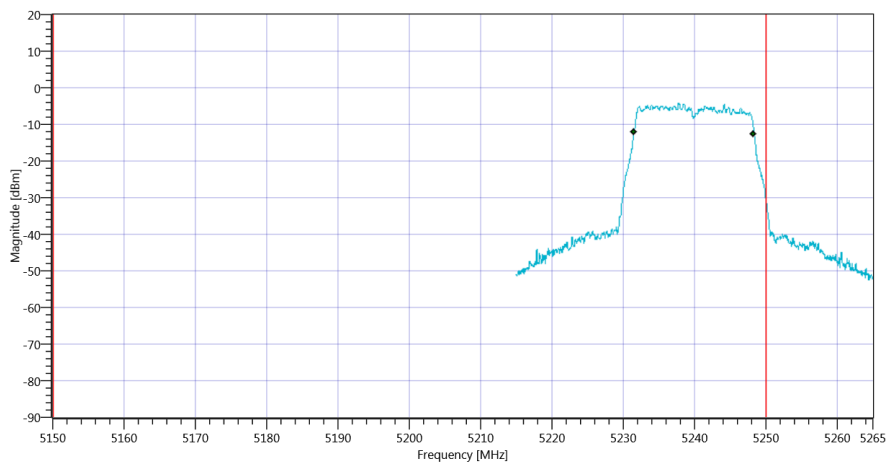
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_15012020_151708.png

RESULT: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.05	MHz	Information
T1 26dB	5150.000000	---	5229.9000	MHz	PASS
T2 26dB	---	5250.000000	5249.9500	MHz	PASS
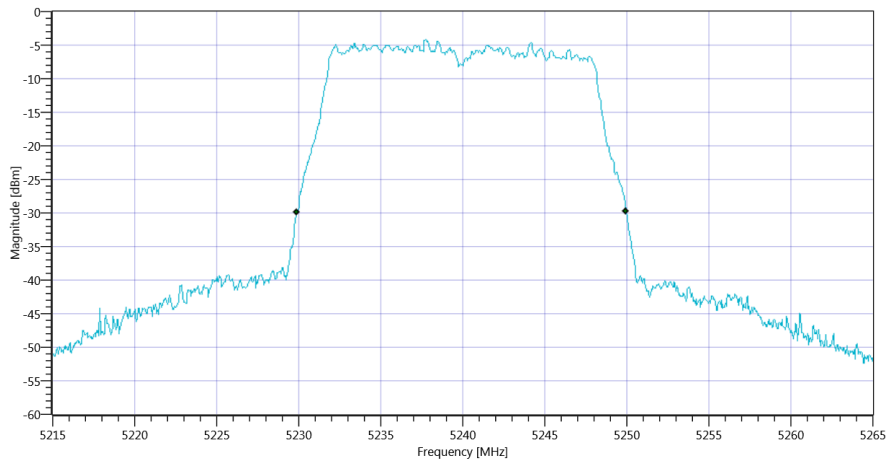
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 26dB_15012020_151713.png
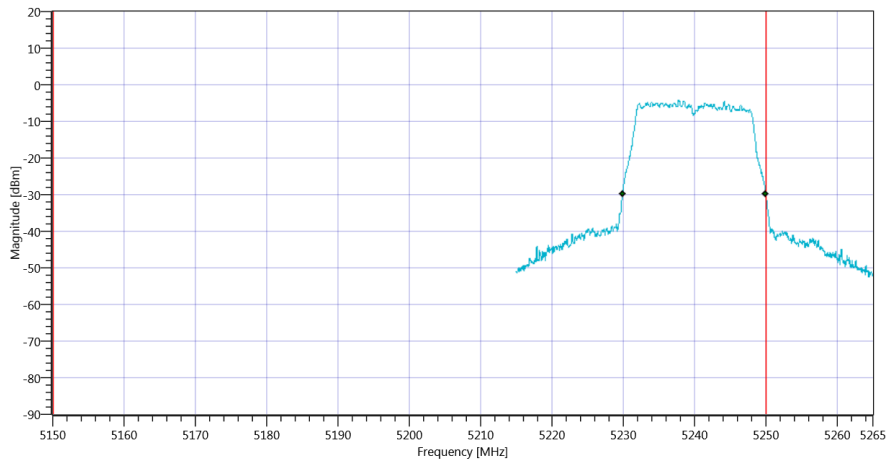
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_15012020_151717.png

TEST FINISHED		
General Verdict	15.01.2020 15:17:17 / RT: 35 s	PASS

13. Peak OP 3MHz/3MHz ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:27:25
System Version	1.0.0.29
Test Specification	---
Test Method	
Class / TC Version / TC ID	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1	TCID_FCC15407_5
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5260 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.55 | 11.36 | 15
Start [MHz] | Stop [MHz]	5235.000 | 5285.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT: TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	4.47	dBm	Information
Peak Power	---	---	2.798981	mW	Information
Frequency at Peak	---	---	5256.004	MHz	Information
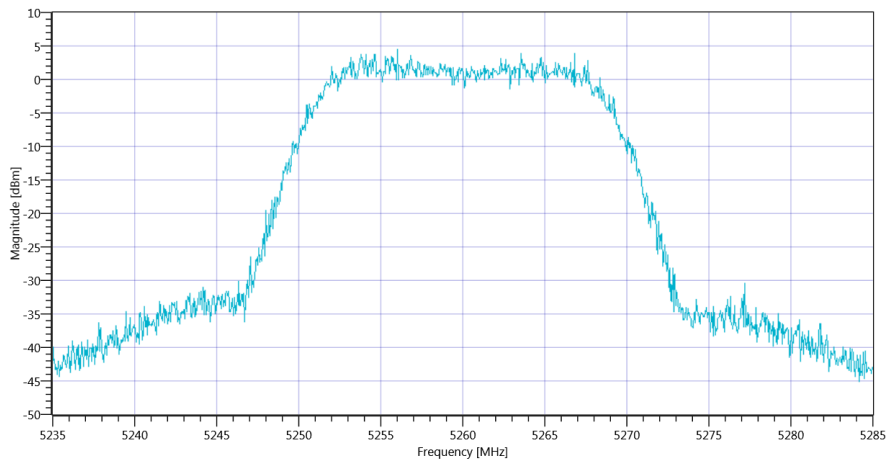
Plot_Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-2A_15012020_152743.png

TEST FINISHED		
General Verdict	15.01.2020 15:27:43 / RT: 18 s	PASS

14. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:27:48
System Version	1.0.0.29
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5260 MHz

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

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.28	MHz	Information
T1 26dB	---	---	5249.8400	MHz	Information
T2 26dB	---	---	5270.1200	MHz	Information
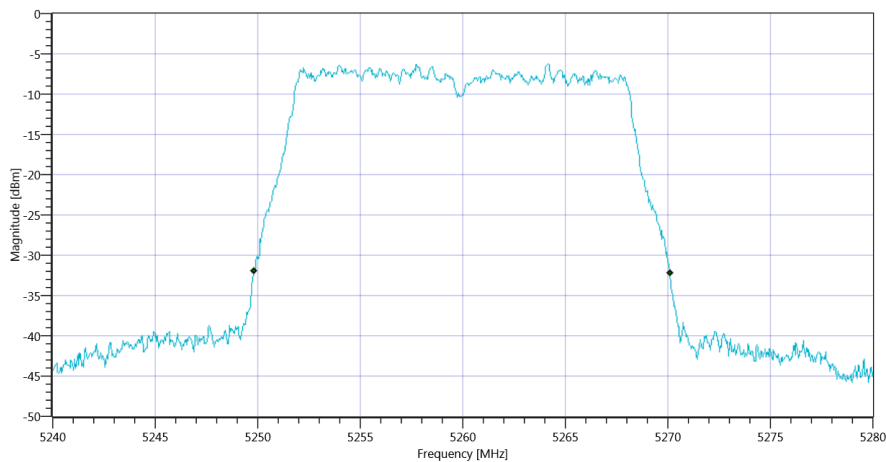
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_15012020_152810.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.45 | 11.36 | 15
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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	2.84	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	2.84	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.07	2.84	dBm	PASS
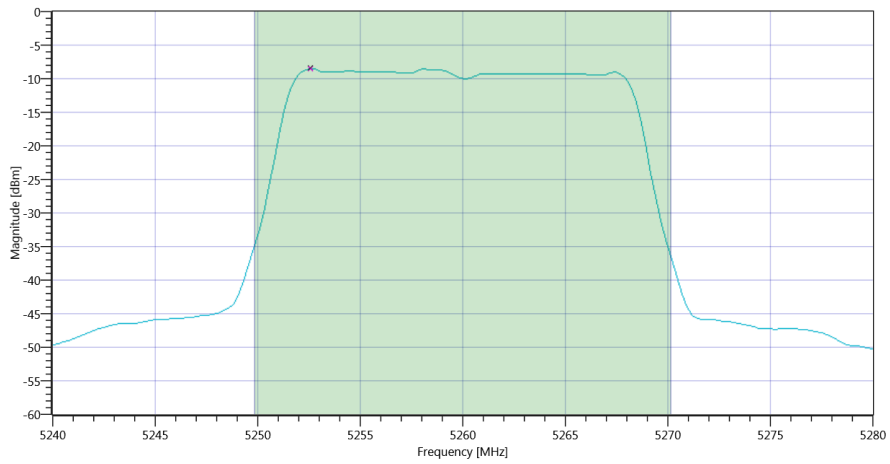
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_15012020_152834.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-8.47	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-8.47	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:28:37 / RT: 48 s	PASS

15. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:28:41
System Version	1.0.0.29
Test Specification	ISED
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 | TCID_FCC15407_3
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5260 MHz

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

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.863	MHz	Information
T1 99%	---	---	5251.4885	MHz	Information
T2 99%	---	---	5268.3516	MHz	Information
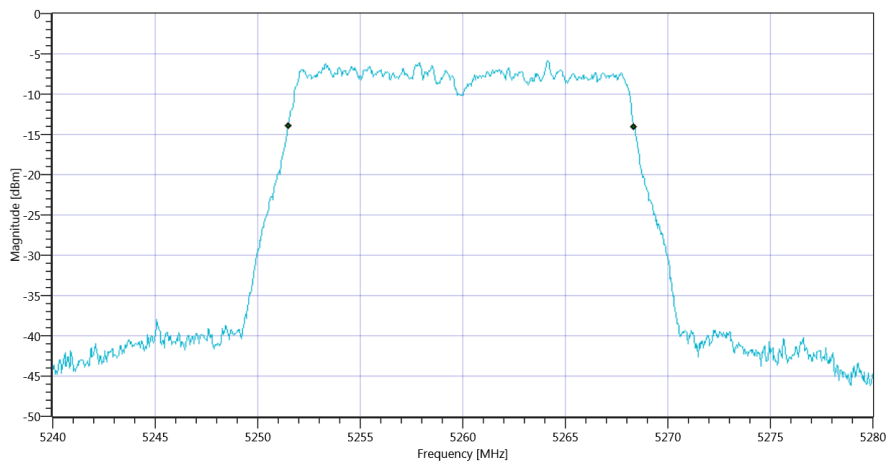
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_15012020_152903.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.46 | 11.36 | 15
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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	2.78	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	2.78	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.27	2.78	dBm	PASS
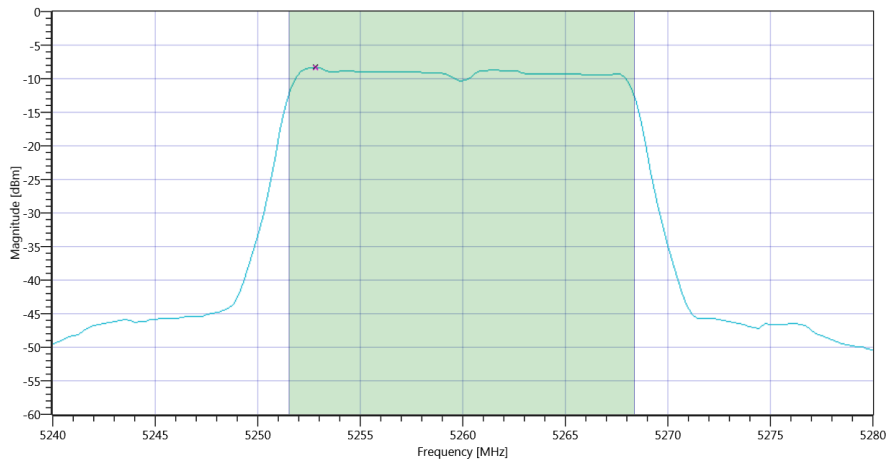
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_15012020_152927.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-8.36	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-8.36	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:29:29 / RT: 47 s	PASS

16. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:29:33
System Version	1.0.0.29
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version / TC ID	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1	TCID_FCC15407_1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5260 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	6.97 | 11.36 | 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: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.933	MHz	Information
T1 99%	5250.000000	---	5251.4585	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5268.3916	MHz	PASS
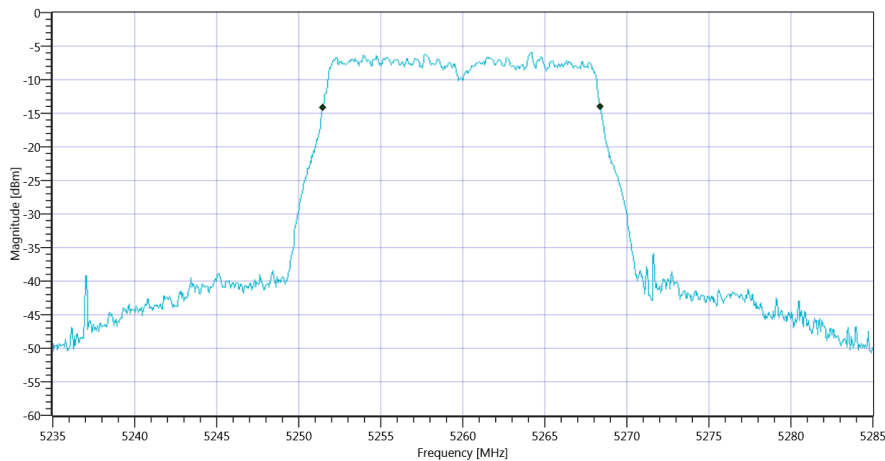
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 99PCT_15012020_152956.png
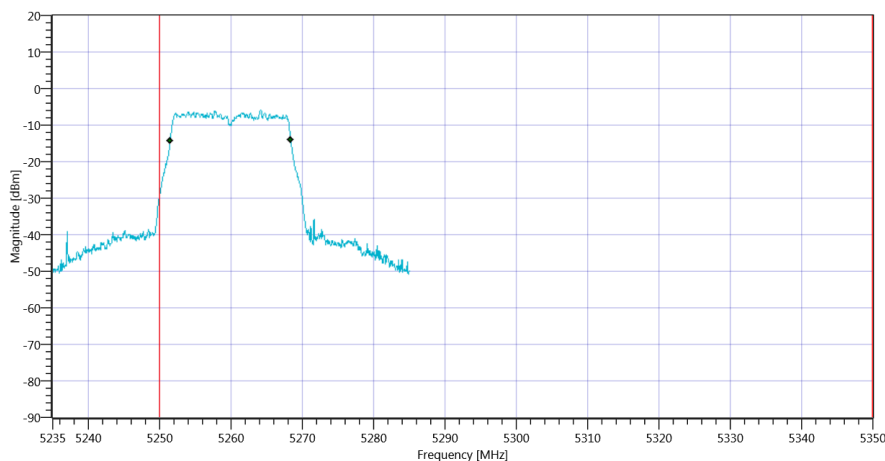
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_15012020_152959.png

RESULT: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.25	MHz	Information
T1 26dB	5250.000000	---	5249.8000	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5270.0500	MHz	PASS
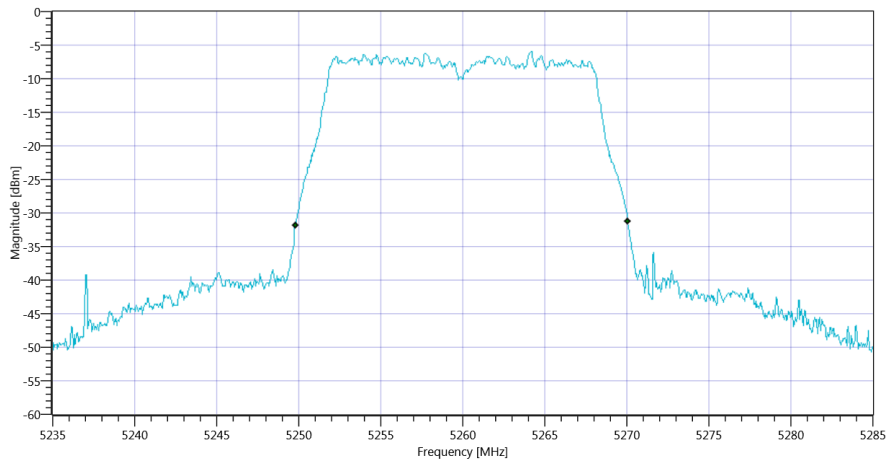
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 26dB_15012020_153004.png
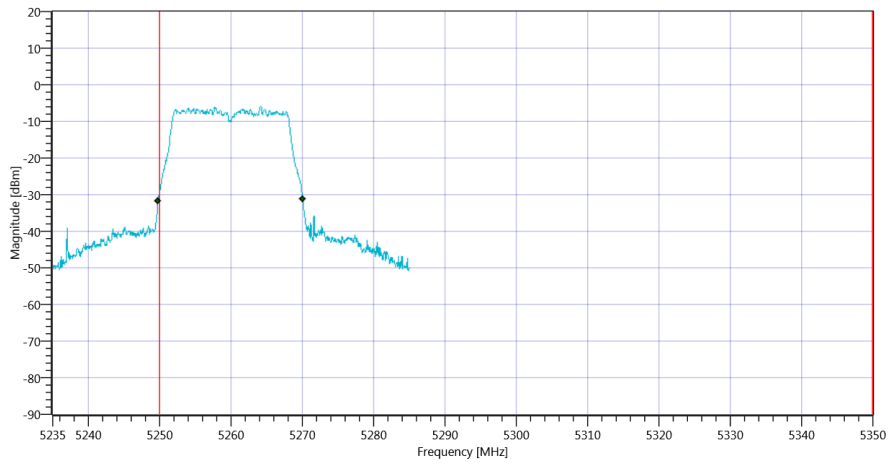
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_15012020_153008.png

TEST FINISHED		
General Verdict	15.01.2020 15:30:09 / RT: 35 s	PASS

17. Peak OP 3MHz/3MHz ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:30:33
System Version	1.0.0.29
Test Specification	---
Test Method	
Class / TC Version / TC ID	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1 | TCID_FCC15407_5
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5280 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	12.95 | 11.41 | 20
Start [MHz] | Stop [MHz]	5255.000 | 5305.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT: TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	5.66	dBm	Information
Peak Power	---	---	3.68129	mW	Information
Frequency at Peak	---	---	5281.399	MHz	Information
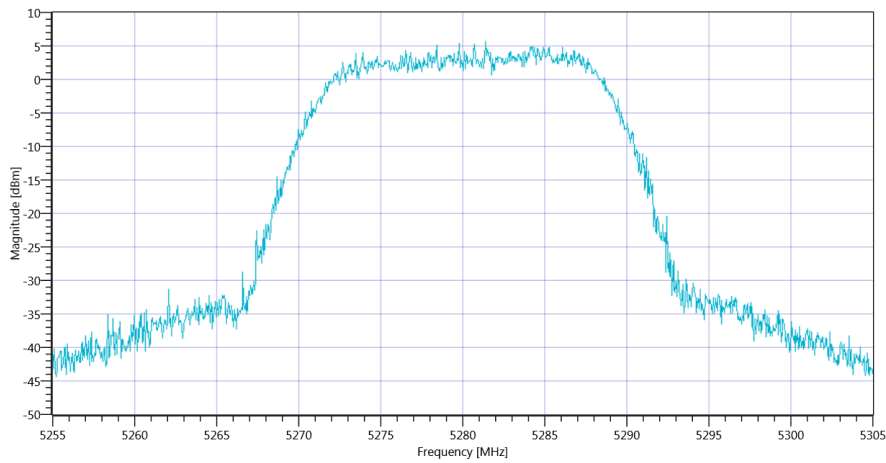
Plot_Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-2A_15012020_153050.png

TEST FINISHED		
General Verdict	15.01.2020 15:30:51 / RT: 17 s	PASS

18. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:30:55
System Version	1.0.0.29
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5280 MHz

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

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.04	MHz	Information
T1 26dB	---	---	5270.0400	MHz	Information
T2 26dB	---	---	5290.0800	MHz	Information
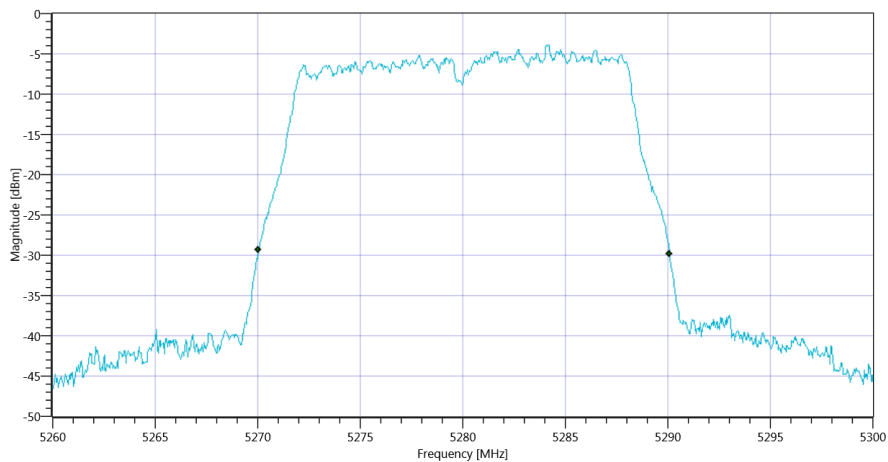
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_15012020_153117.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.55 | 11.41 | 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:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	4.37	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	4.37	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.02	4.37	dBm	PASS
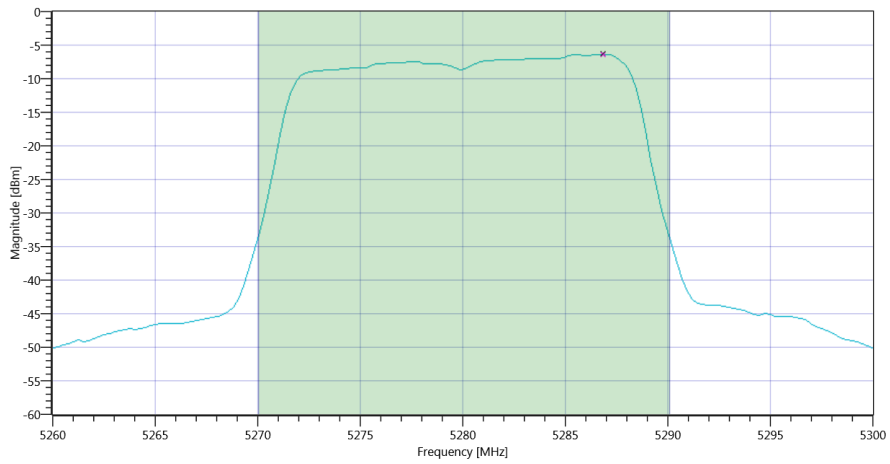
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_15012020_153140.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.47	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-6.47	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:31:43 / RT: 47 s	PASS

19. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:31:47
System Version	1.0.0.29
Test Specification	ISED
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5280 MHz

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

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.743	MHz	Information
T1 99%	---	---	5271.6484	MHz	Information
T2 99%	---	---	5288.3916	MHz	Information
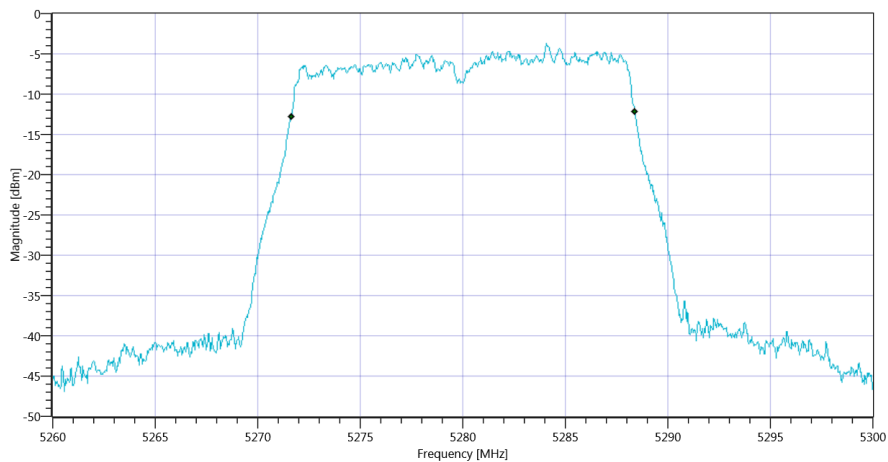
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_15012020_153209.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	13.21	11.41	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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	4.25	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	4.25	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.24	4.25	dBm	PASS
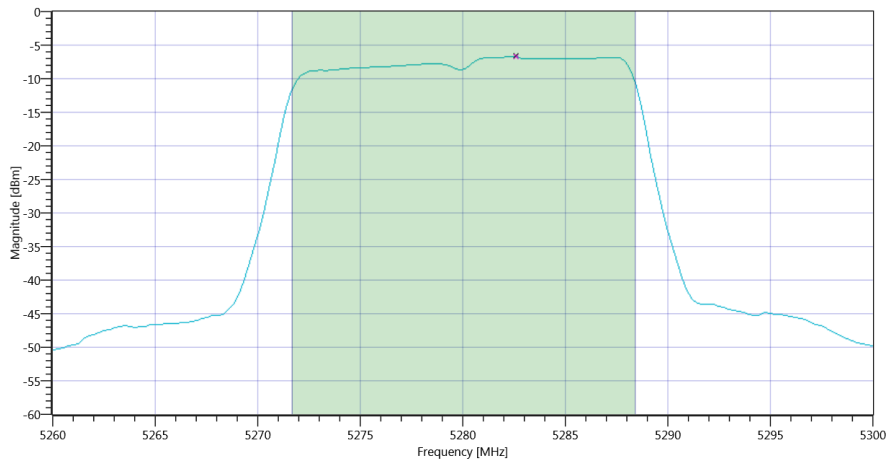
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_15012020_153233.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.73	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-6.73	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:32:35 / RT: 47 s	PASS

20. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:32:39
System Version	1.0.0.29
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version / TC ID	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1	TCID_FCC15407_1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5280 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.32 | 11.41 | 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: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.733	MHz	Information
T1 99%	5250.000000	---	5271.6583	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5288.3916	MHz	PASS
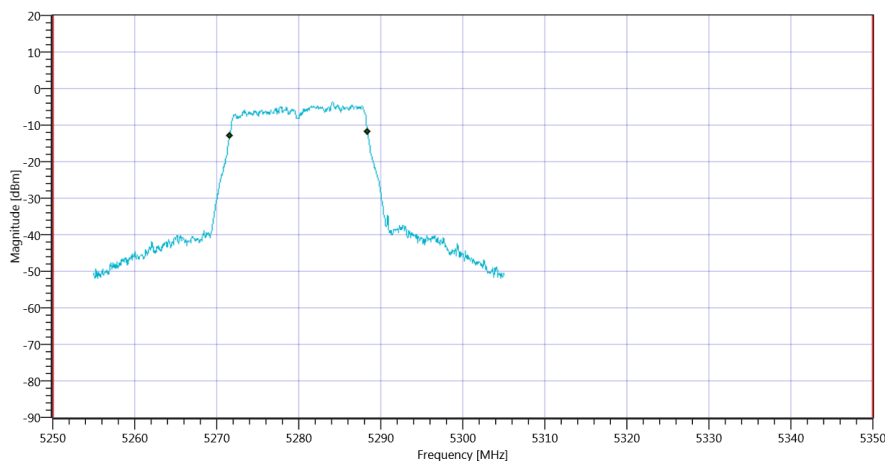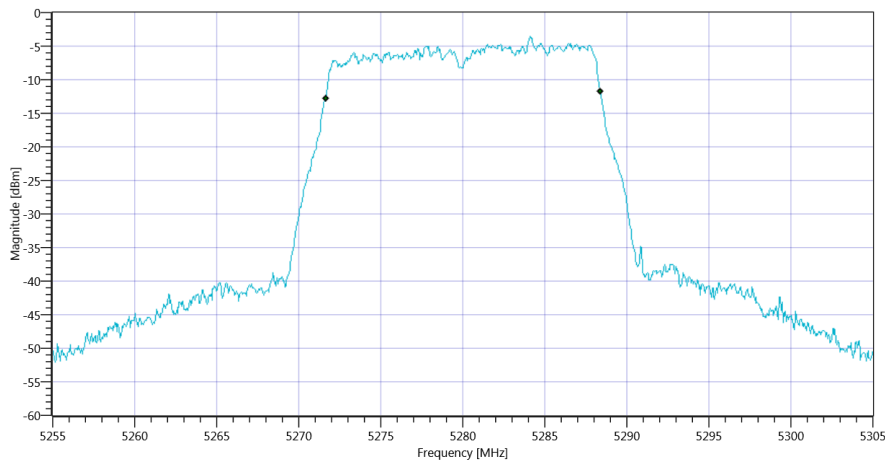
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 99PCT_15012020_153302.png

Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_15012020_153306.png

RESULT: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	19.95	MHz	Information
T1 26dB	5250.000000	---	5270.0500	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5290.0000	MHz	PASS
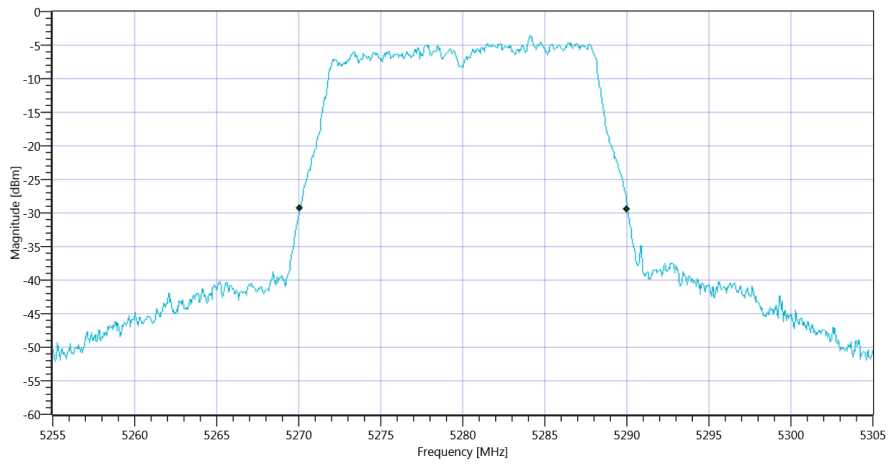
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 26dB_15012020_153311.png
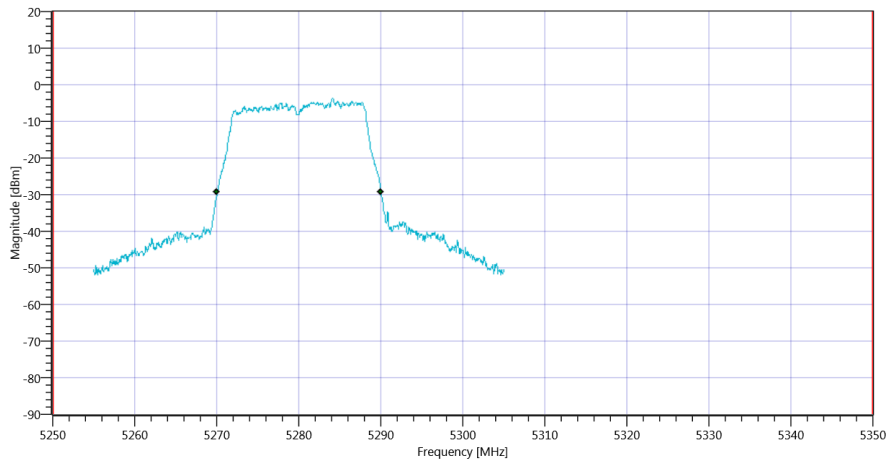
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_15012020_153315.png

TEST FINISHED		
General Verdict	15.01.2020 15:33:16 / RT: 36 s	PASS

21. Peak OP 3MHz/3MHz ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:33:48
System Version	1.0.0.29
Test Specification	---
Test Method	
Class / TC Version / TC ID	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1	TCID_FCC15407_5
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5320 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.03 | 11.39 | 15
Start [MHz] | Stop [MHz]	5295.000 | 5345.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT: TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	3.61	dBm	Information
Peak Power	---	---	2.296149	mW	Information
Frequency at Peak	---	---	5325.794	MHz	Information
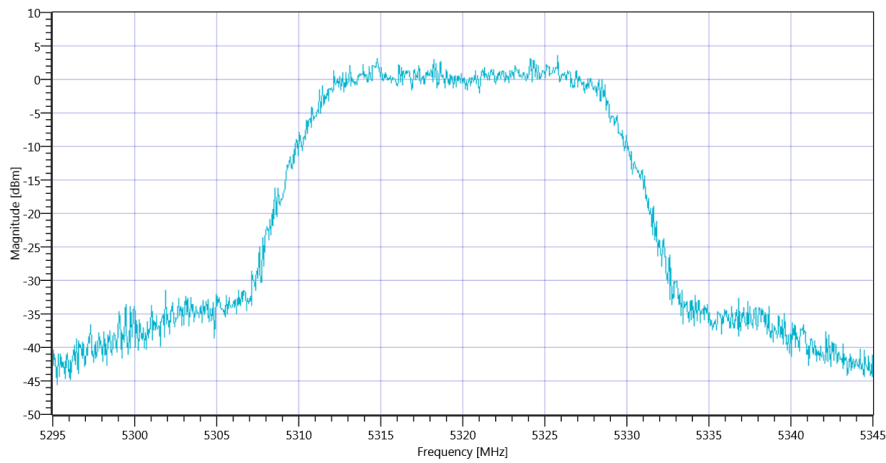
Plot_Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-2A_15012020_153405.png

TEST FINISHED		
General Verdict	15.01.2020 15:34:05 / RT: 17 s	PASS

22. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:34:10
System Version	1.0.0.29
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5320 MHz

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

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.24	MHz	Information
T1 26dB	---	---	5309.8800	MHz	Information
T2 26dB	---	---	5330.1200	MHz	Information
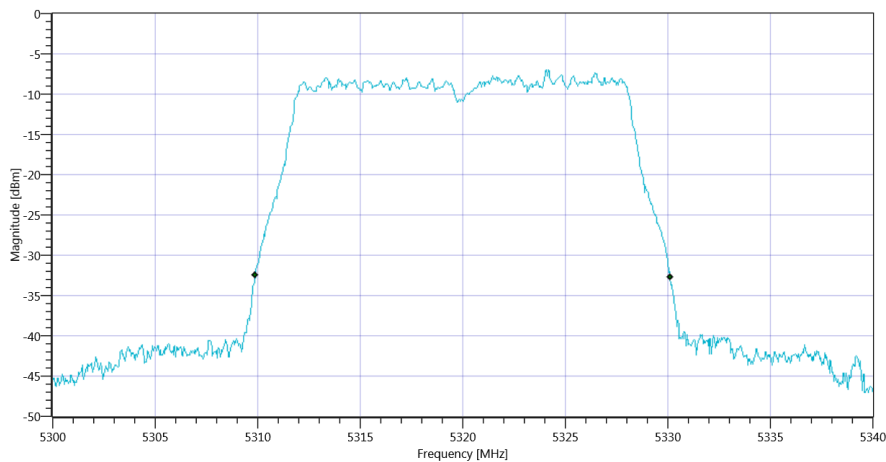
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_15012020_153432.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 11.39 | 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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	1.82	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	1.82	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.06	1.82	dBm	PASS
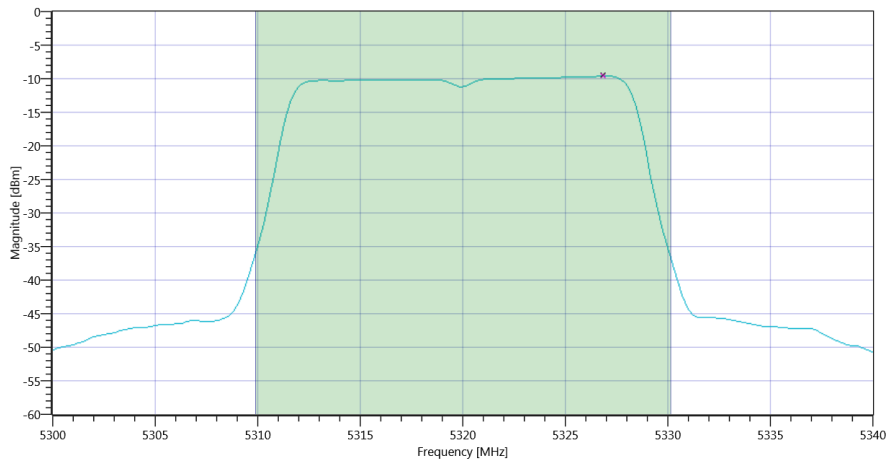
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_15012020_153455.png

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-9.65	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-9.65	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:34:57 / RT: 47 s	PASS

23. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:35:02
System Version	1.0.0.29
Test Specification	ISED
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 | TCID_FCC15407_3
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5320 MHz

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

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.903	MHz	Information
T1 99%	---	---	5311.5285	MHz	Information
T2 99%	---	---	5328.4316	MHz	Information
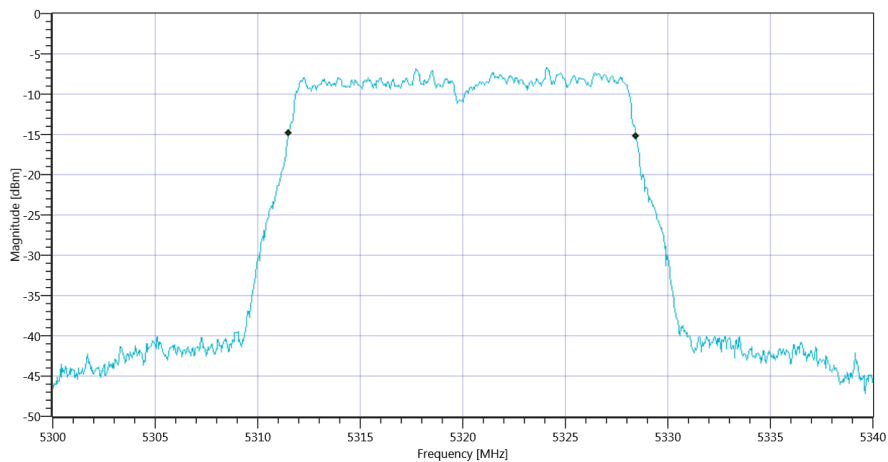
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_15012020_153524.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.14 | 11.39 | 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:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	1.86	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	1.86	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.28	1.86	dBm	PASS
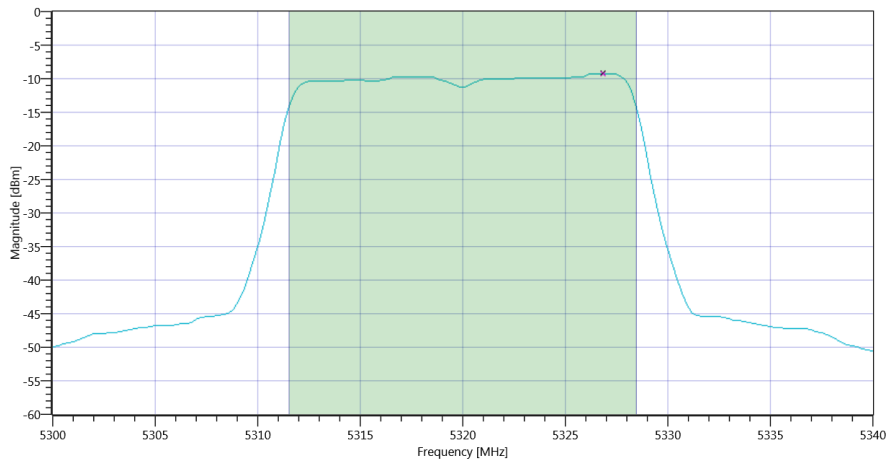
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_15012020_153548.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-9.27	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-9.27	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:35:50 / RT: 48 s	PASS

24. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	15.01.2020 15:35:54
System Version	1.0.0.29
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version / TC ID	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1	TCID_FCC15407_1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5320 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	6.18 | 11.39 | 10
Start [MHz] | Stop [MHz]	5295.000 | 5345.000
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: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.833	MHz	Information
T1 99%	5250.000000	---	5311.5584	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5328.3916	MHz	PASS
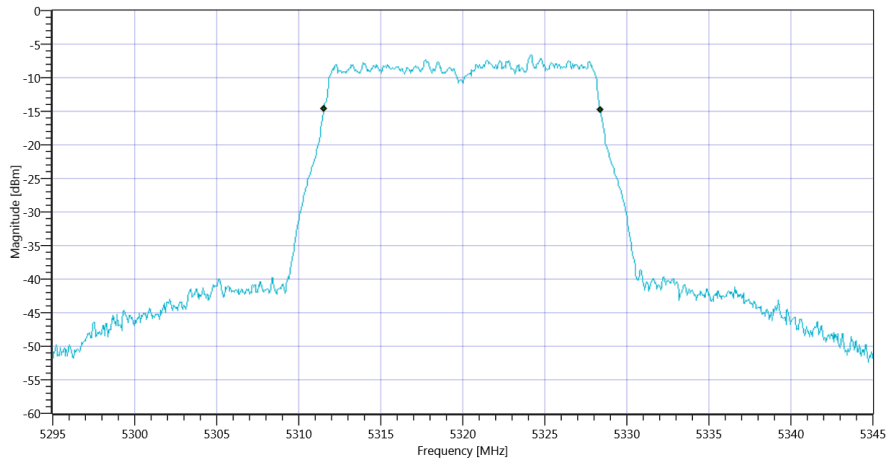
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 99PCT_15012020_153617.png
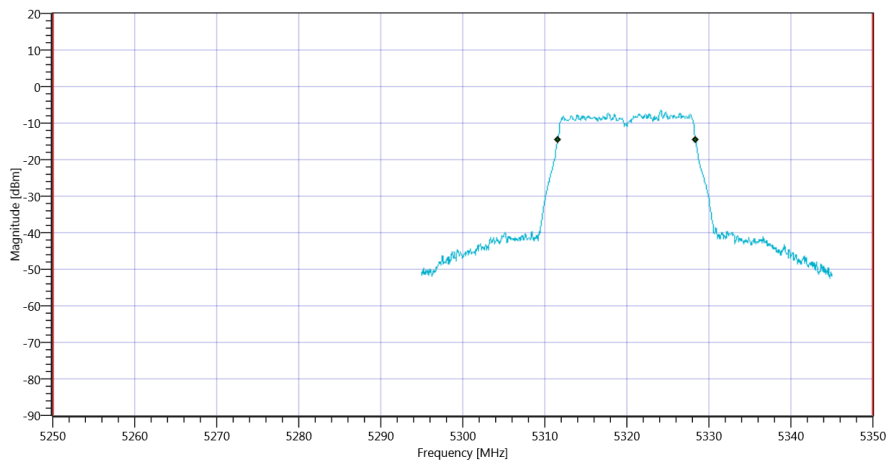
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_15012020_153621.png

RESULT: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.15	MHz	Information
T1 26dB	5250.000000	---	5309.9000	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5330.0500	MHz	PASS
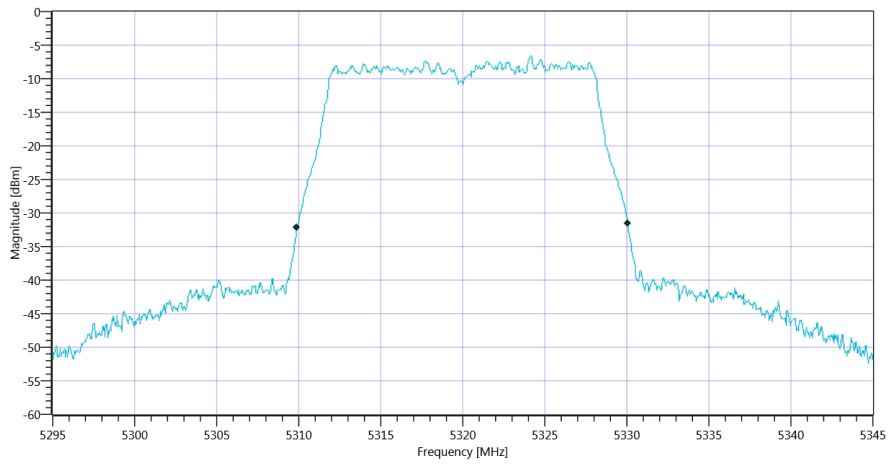
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 26dB_15012020_153626.png
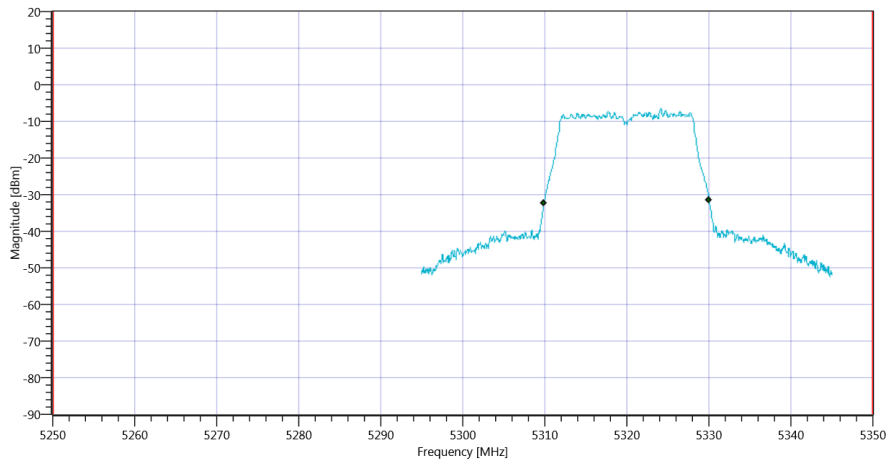
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_15012020_153630.png

TEST FINISHED		
General Verdict	15.01.2020 15:36:31 / RT: 36 s	PASS

25. Peak OP 3MHz/3MHz ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:37:47
System Version	1.0.0.29
Test Specification	---
Test Method	
Class / TC Version / TC ID	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1	TCID_FCC15407_5
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-2C
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5500 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.85 | 11.3 | 15
Start [MHz] | Stop [MHz]	5475.000 | 5525.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT: TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	4.61	dBm	Information
Peak Power	---	---	2.89068	mW	Information
Frequency at Peak	---	---	5496.903	MHz	Information
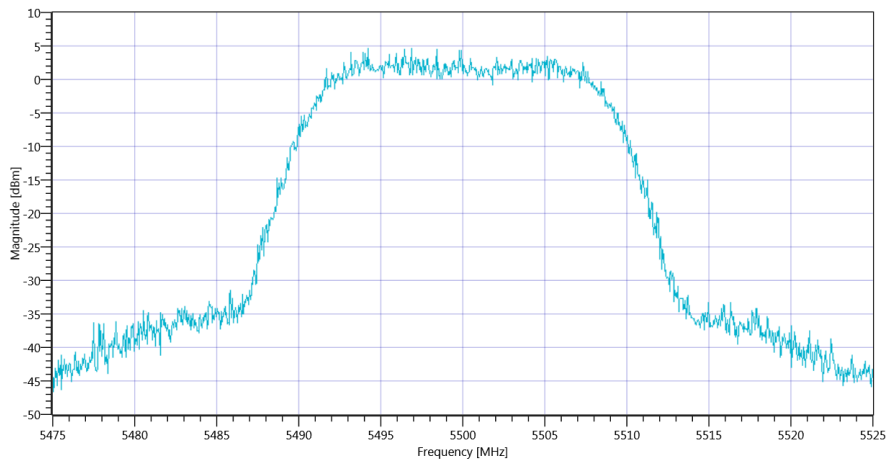
Plot_Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-2C_15012020_153804.png

TEST FINISHED		
General Verdict	15.01.2020 15:38:05 / RT: 18 s	PASS

26. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:38:09
System Version	1.0.0.29
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5500 MHz

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

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.16	MHz	Information
T1 26dB	---	---	5489.8400	MHz	Information
T2 26dB	---	---	5510.0000	MHz	Information
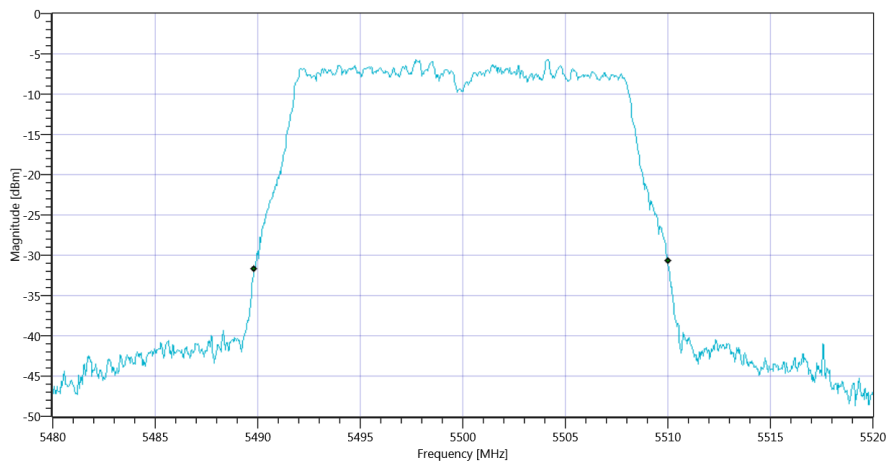
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_15012020_153832.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.25 | 11.3 | 15
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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	3.13	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	3.13	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.04	3.13	dBm	PASS
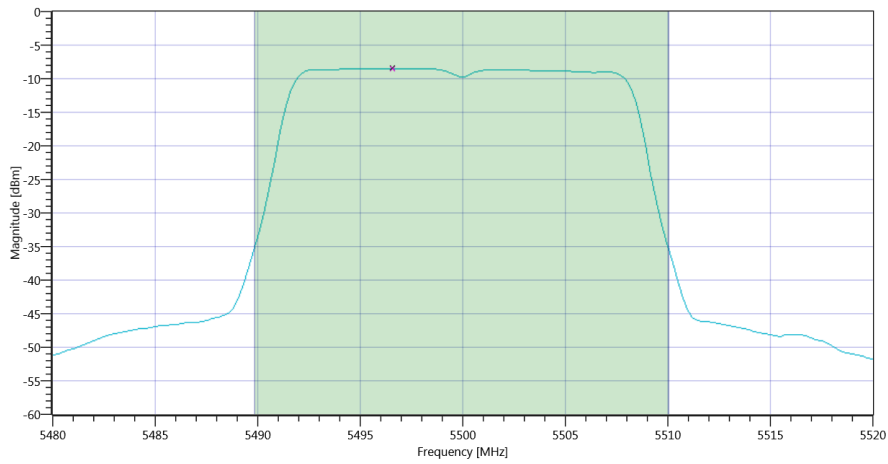
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_15012020_153855.png

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-8.55	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-8.55	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:38:58 / RT: 48 s	PASS

27. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:39:02
System Version	1.0.0.29
Test Specification	ISED
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 | TCID_FCC15407_3
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5500 MHz

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

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.783	MHz	Information
T1 99%	---	---	5491.5285	MHz	Information
T2 99%	---	---	5508.3117	MHz	Information
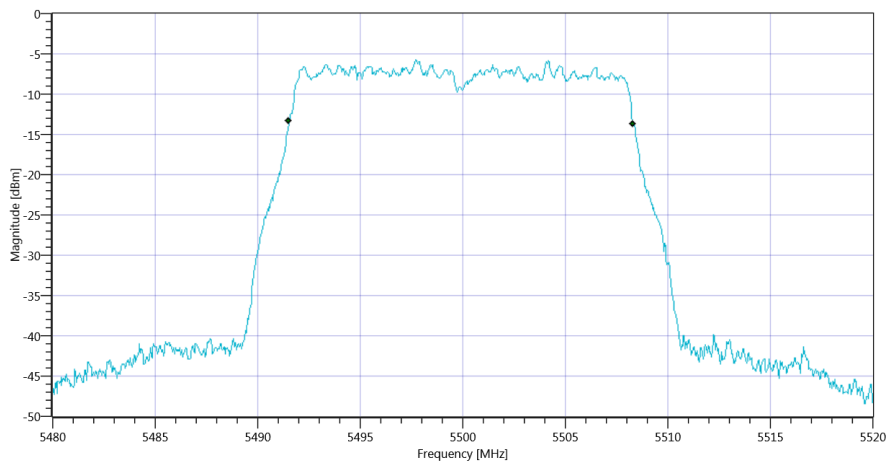
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_15012020_153925.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.13 | 11.3 | 15
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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	3.05	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	3.05	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.25	3.05	dBm	PASS
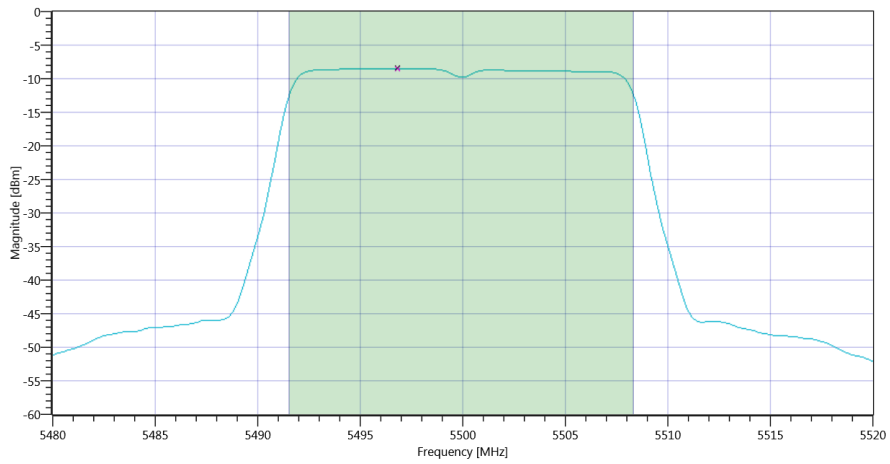
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_15012020_153948.png

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-8.56	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-8.56	dBm/1MHz	PASS

TEST FINISHED			
General Verdict		15.01.2020 15:39:50 / RT: 47 s	PASS

28. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:39:55
System Version	1.0.0.29
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version / TC ID	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1	TCID_FCC15407_1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5500 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	7.36 | 11.3 | 15
Start [MHz] | Stop [MHz]	5475.000 | 5525.000
RBW [MHz] | VBW [MHz]	0.300000 | 1.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

RESULT: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.733	MHz	Information
T1 99%	5470.000000	---	5491.5584	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5508.2917	MHz	
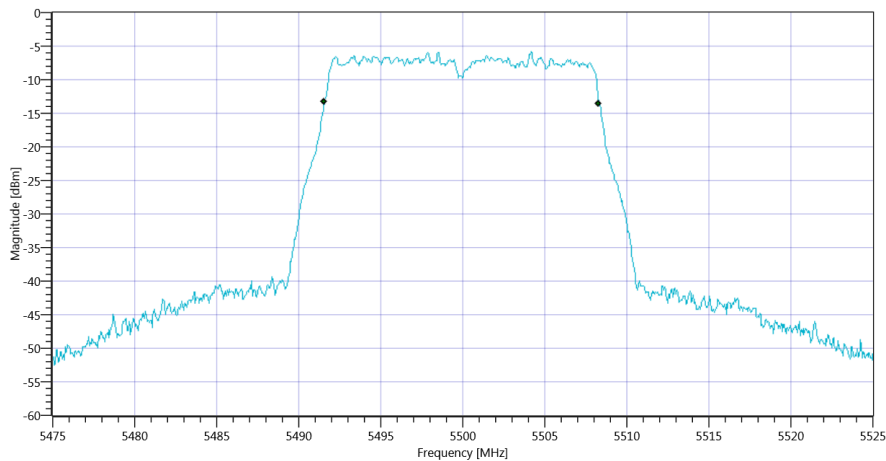
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C 99PCT_15012020_154017.png
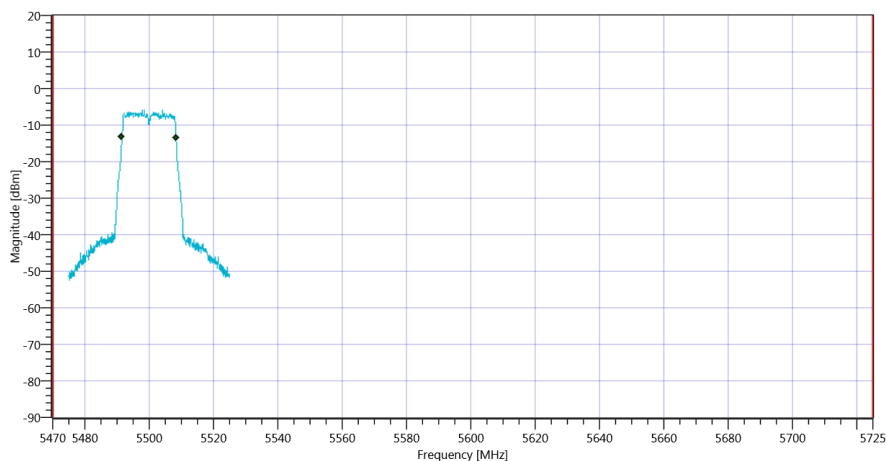
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C_15012020_154021.png

RESULT: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20	MHz	Information
T1 26dB	5470.000000	---	5489.9500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5509.9500	MHz	
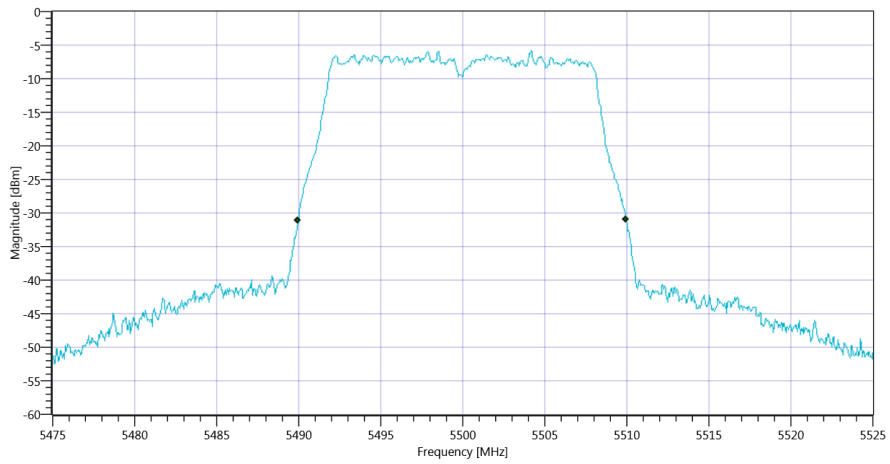
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C 26dB_15012020_154026.png
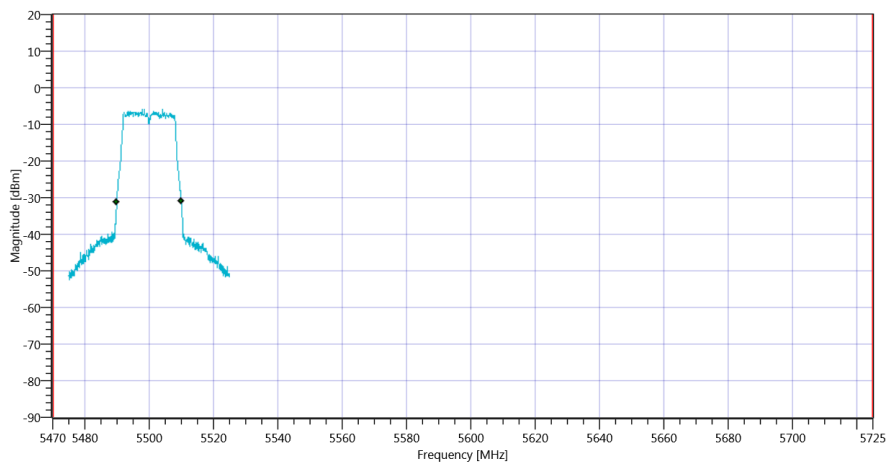
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C_15012020_154030.png

TEST FINISHED		
General Verdict	15.01.2020 15:40:31 / RT: 36 s	PASS

29. Peak OP 3MHz/3MHz ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:41:28
System Version	1.0.0.29
Test Specification	---
Test Method	
Class / TC Version / TC ID	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1	TCID_FCC15407_5
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-2C
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5600 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.74 | 11.5 | 15
Start [MHz] | Stop [MHz]	5575.000 | 5625.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT: TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	4.03	dBm	Information
Peak Power	---	---	2.529298	mW	Information
Frequency at Peak	---	---	5595.055	MHz	Information
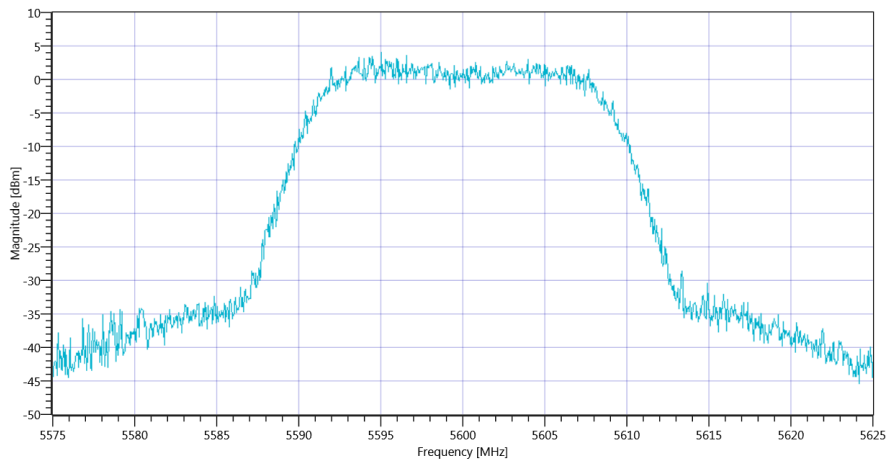
Plot_Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-2C_15012020_154145.png

TEST FINISHED		
General Verdict	15.01.2020 15:41:46 / RT: 18 s	PASS

30. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:41:51
System Version	1.0.0.29
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5600 MHz

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

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.24	MHz	Information
T1 26dB	---	---	5589.8400	MHz	Information
T2 26dB	---	---	5610.0800	MHz	Information
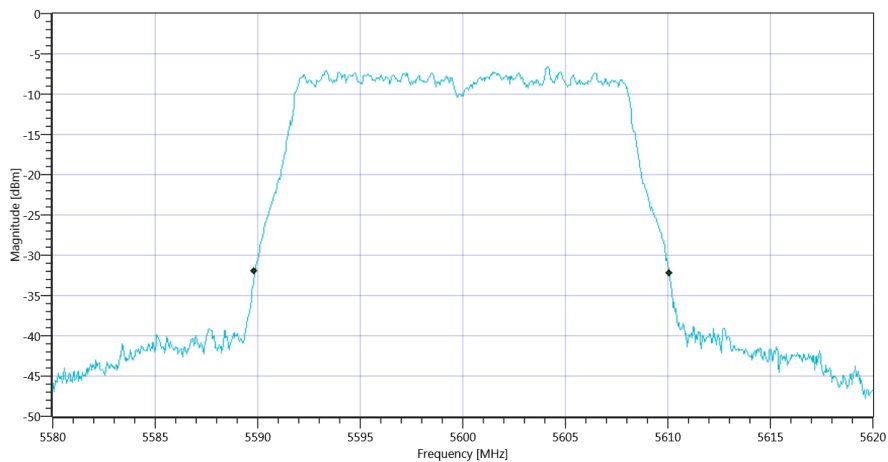
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_15012020_154213.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.63 | 11.5 | 15
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:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	2.36	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	2.36	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.06	2.36	dBm	PASS
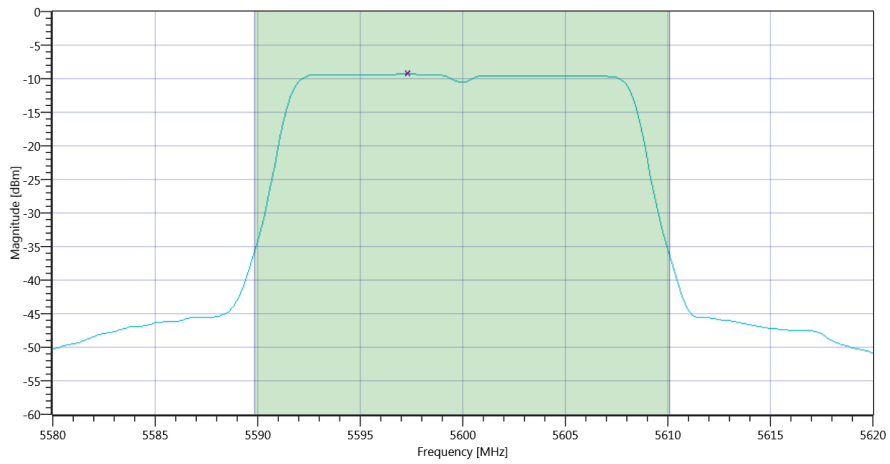
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_15012020_154236.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-9.33	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-9.33	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:42:39 / RT: 47 s	PASS

31. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:42:43
System Version	1.0.0.29
Test Specification	ISED
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5600 MHz

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

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.823	MHz	Information
T1 99%	---	---	5591.4885	MHz	Information
T2 99%	---	---	5608.3117	MHz	Information
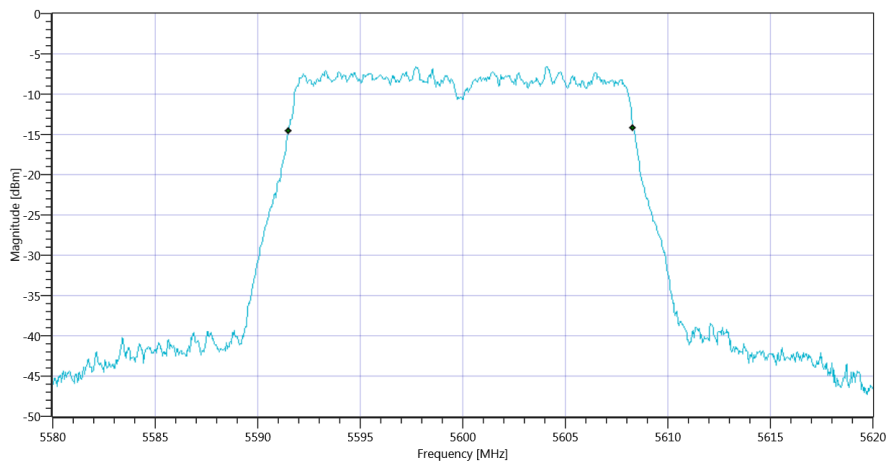
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_15012020_154306.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.55 | 11.5 | 15
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:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	2.28	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	2.28	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.26	2.28	dBm	PASS
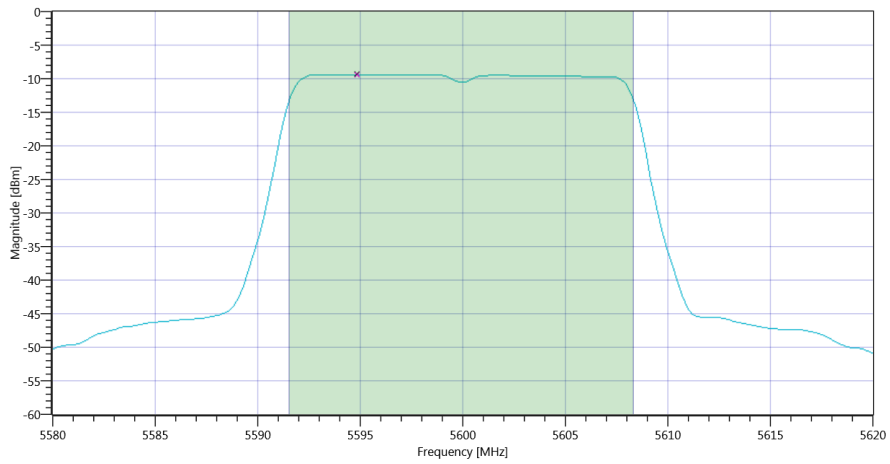
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_15012020_154329.png

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-9.38	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-9.38	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:43:31 / RT: 47 s	PASS

32. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:43:36
System Version	1.0.0.29
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version / TC ID	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1	TCID_FCC15407_1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5600 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	6.82 | 11.5 | 15
Start [MHz] | Stop [MHz]	5575.000 | 5625.000
RBW [MHz] | VBW [MHz]	0.300000 | 1.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

RESULT: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.833	MHz	Information
T1 99%	5470.000000	---	5591.5085	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5608.3417	MHz	
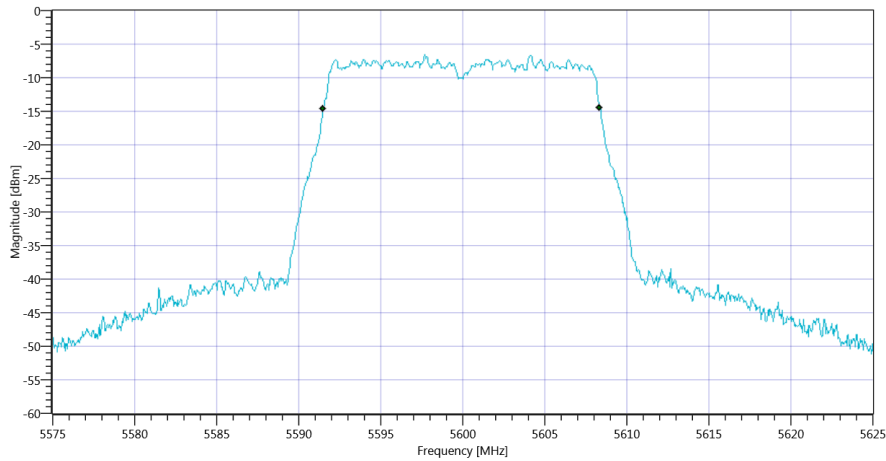
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C 99PCT_15012020_154359.png
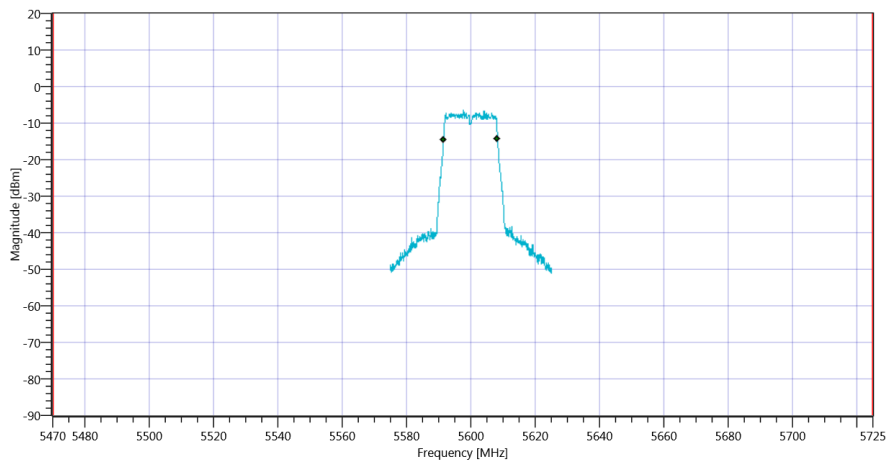
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C_15012020_154403.png

RESULT: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.2	MHz	Information
T1 26dB	5470.000000	---	5589.8500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5610.0500	MHz	
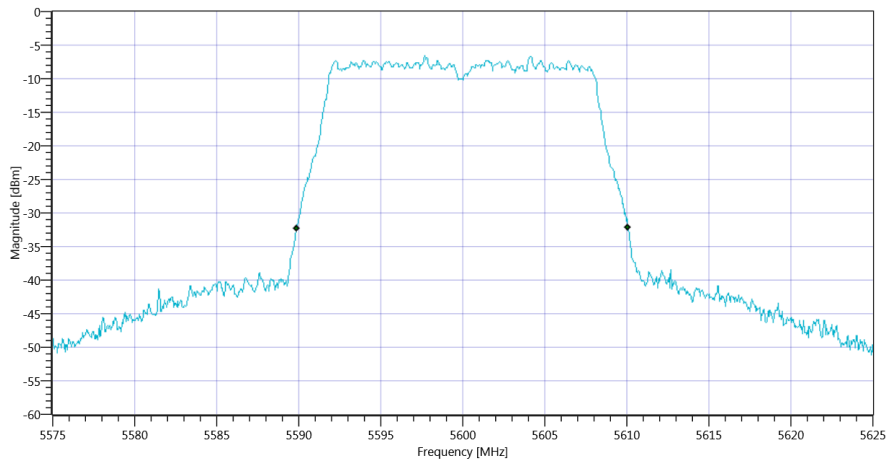
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C 26dB_15012020_154408.png
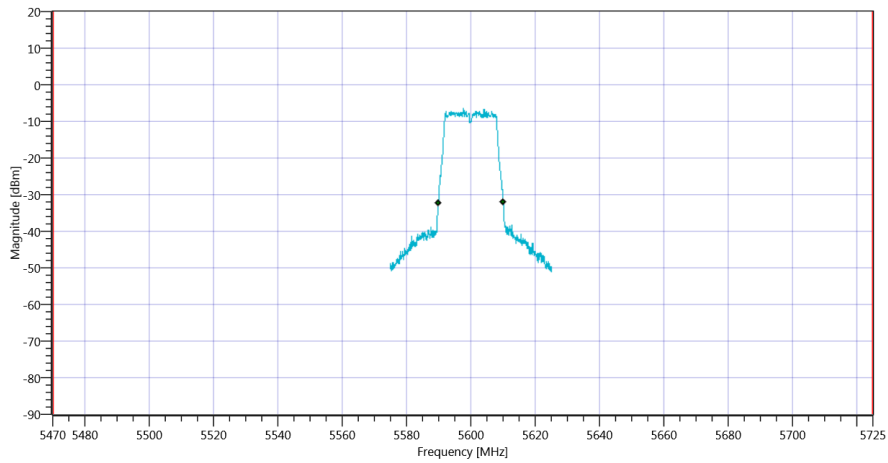
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C_15012020_154412.png

TEST FINISHED		
General Verdict	15.01.2020 15:44:13 / RT: 37 s	PASS

33. Peak OP 3MHz/3MHz ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:45:08
System Version	1.0.0.29
Test Specification	---
Test Method	
Class / TC Version / TC ID	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1	TCID_FCC15407_5
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-2C
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5700 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.01 | 11.74 | 20
Start [MHz] | Stop [MHz]	5675.000 | 5725.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT: TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	6.53	dBm	Information
Peak Power	---	---	4.497799	mW	Information
Frequency at Peak	---	---	5693.906	MHz	Information
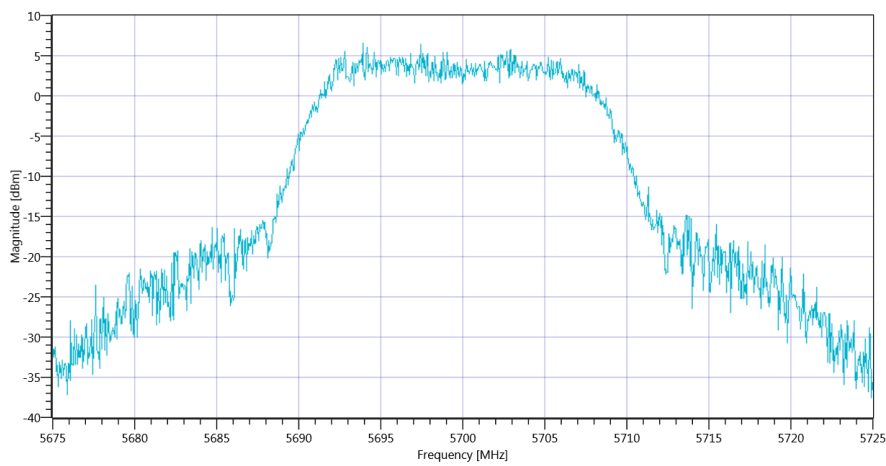
Plot_Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-2C_15012020_154525.png

TEST FINISHED		
General Verdict	15.01.2020 15:45:26 / RT: 18 s	PASS

34. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:45:30
System Version	1.0.0.29
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5700 MHz

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

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	33.52	MHz	Information
T1 26dB	---	---	5683.2000	MHz	Information
T2 26dB	---	---	5716.7200	MHz	Information
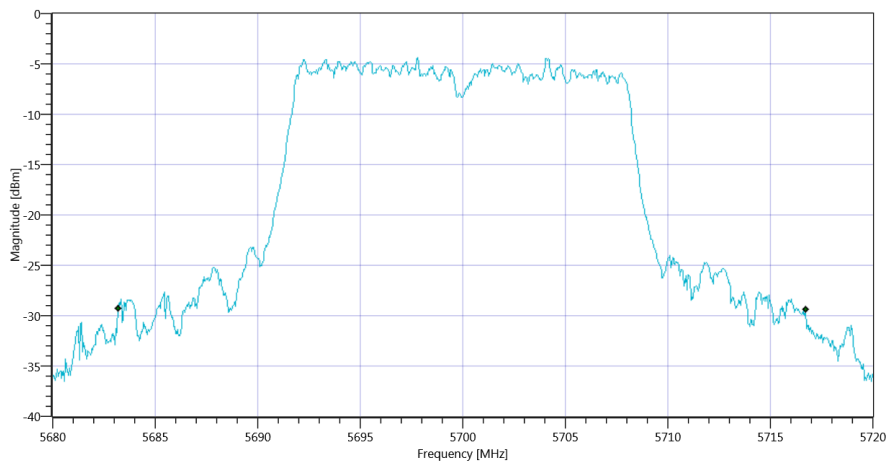
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_15012020_154552.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	12.93	11.74	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:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	4.74	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	4.74	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.25	4.74	dBm	PASS
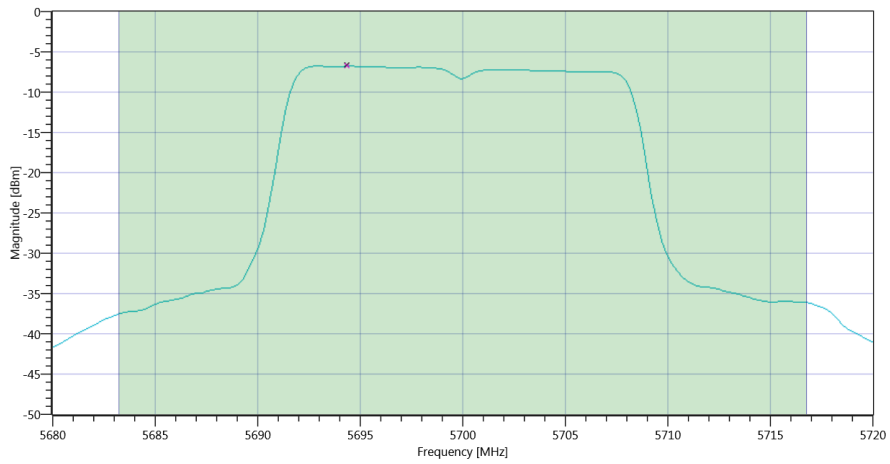
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_15012020_154615.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.78	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-6.78	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:46:18 / RT: 47 s	PASS

35. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:46:23
System Version	1.0.0.29
Test Specification	ISED
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5700 MHz

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

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	17.582	MHz	Information
T1 99%	---	---	5691.1289	MHz	Information
T2 99%	---	---	5708.7113	MHz	Information
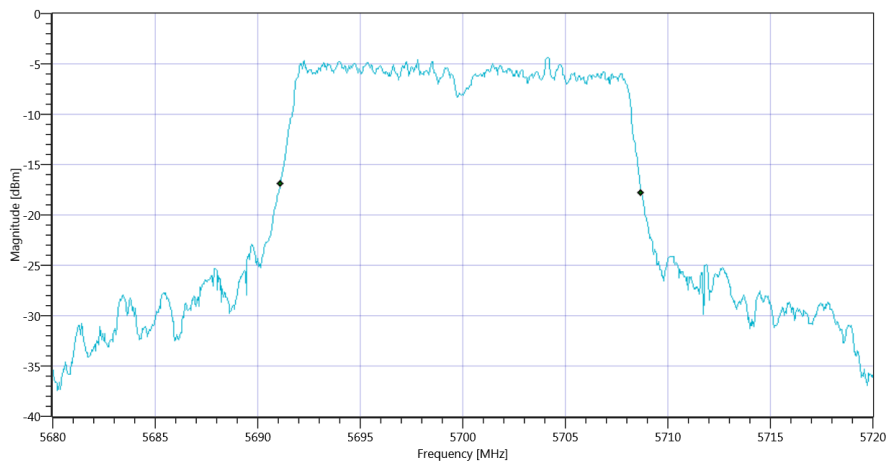
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_15012020_154645.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	12.44 | 11.74 | 15
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:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	4.61	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	24	4.61	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.45	4.61	dBm	PASS
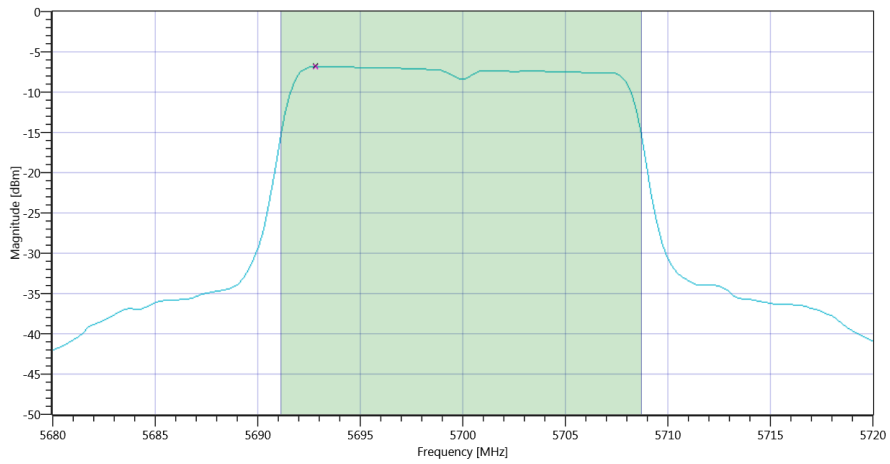
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_15012020_154708.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.86	dBm/1MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	11	-6.86	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	15.01.2020 15:47:10 / RT: 47 s	PASS

36. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	15.01.2020 15:47:15
System Version	1.0.0.29
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version / TC ID	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1	TCID_FCC15407_1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2C
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5700 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.12 | 11.74 | 15
Start [MHz] | Stop [MHz]	5675.000 | 5725.000
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: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.682	MHz	Information
T1 99%	5470.000000	---	5691.1089	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5708.7912	MHz	
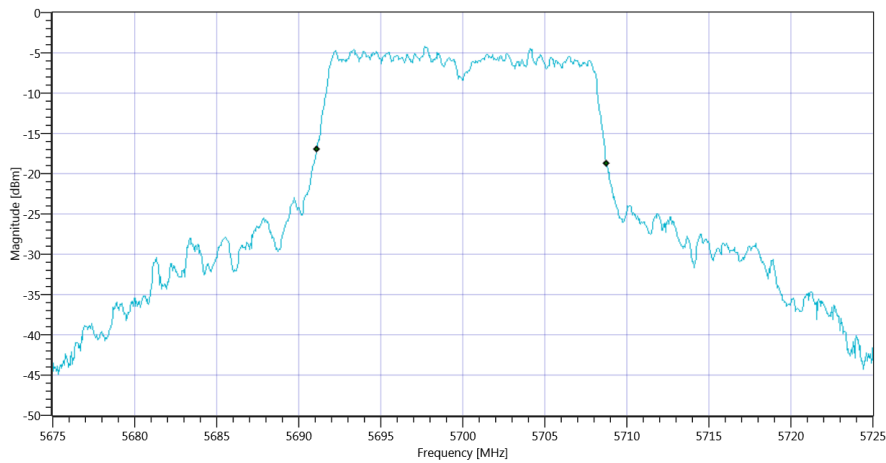
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C 99PCT_15012020_154738.png
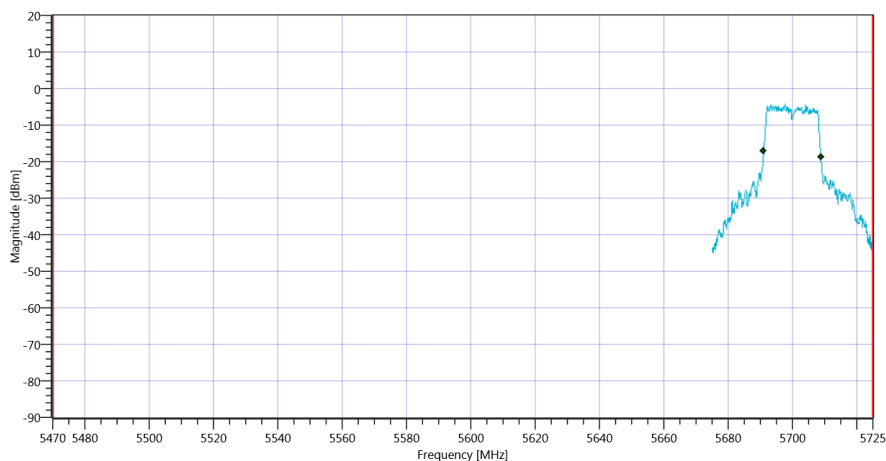
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C_15012020_154742.png

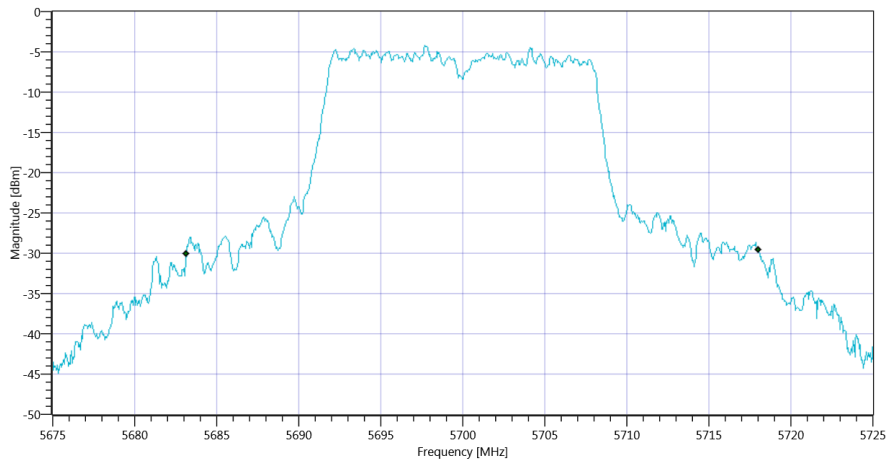| RESULT: TC_VM_FCC15407_Bandwidths_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	34.9	MHz	Information
T1 26dB	5470.000000	---	5683.1500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5718.0500	MHz	

Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C 26dB_15012020_154747.png
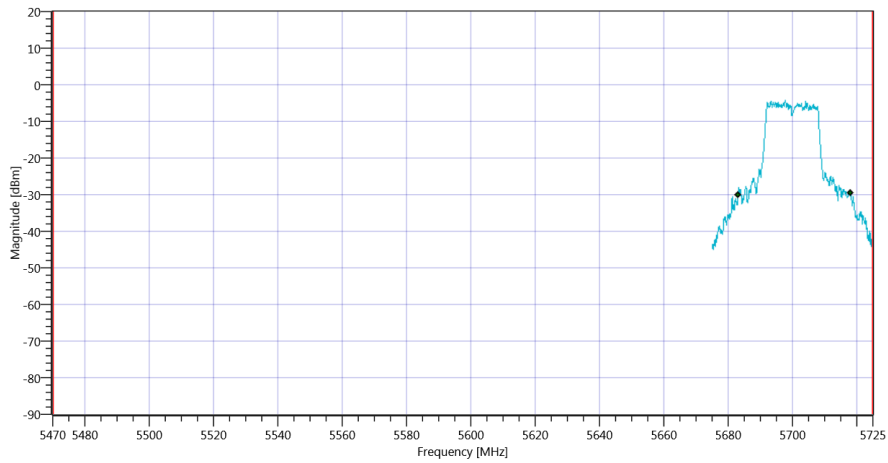
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2C_15012020_154751.png

TEST FINISHED		
General Verdict	15.01.2020 15:47:52 / RT: 37 s	PASS

37. Peak OP 3MHz/3MHz ~ WLAN5Gx a mode U-NII-3

Test References	
TC Start	15.01.2020 15:48:23
System Version	1.0.0.29
Test Specification	---
Test Method	
Class / TC Version / TC ID	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1	TCID_FCC15407_5
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-3
Add. Information	

| Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5745 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.14 | 11.83 | 20
Start [MHz] | Stop [MHz]	5720.000 | 5770.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT: TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	9.28	dBm	Information
Peak Power	---	---	8.472274	mW	Information
Frequency at Peak	---	---	5738.457	MHz	Information
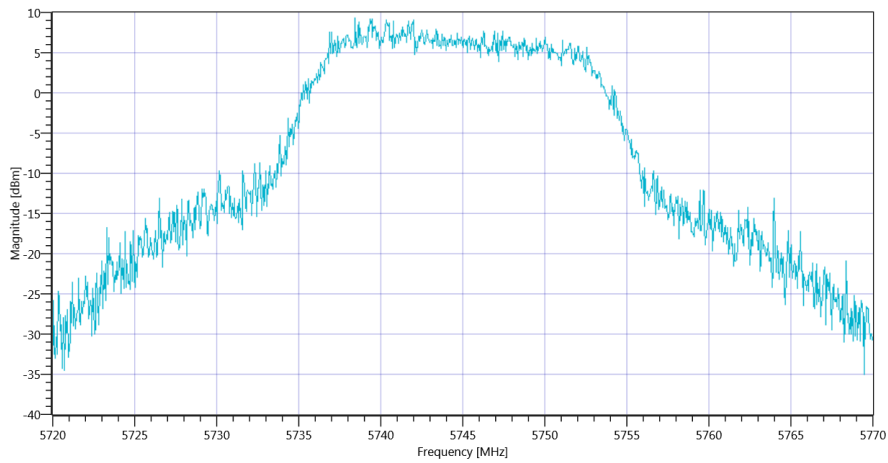
Plot_Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-3_15012020_154841.png

TEST FINISHED		
General Verdict	15.01.2020 15:48:42 / RT: 18 s	PASS

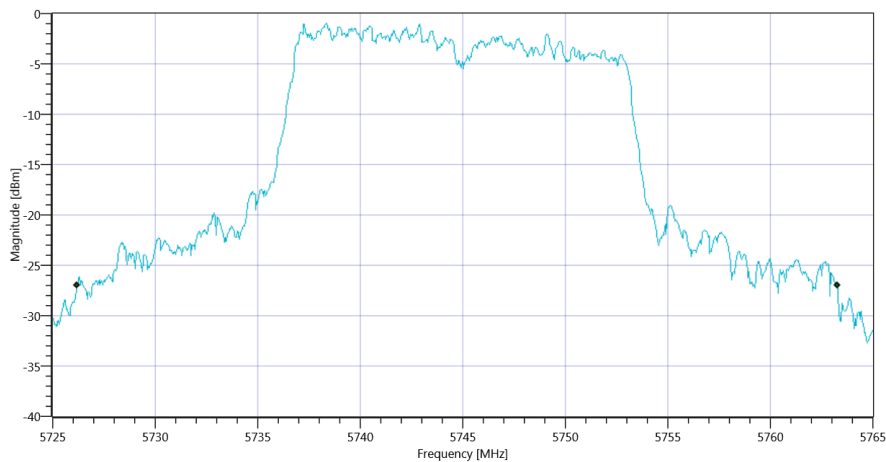# 38. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3

Test References	
TC Start	15.01.2020 15:48:47
System Version	1.0.0.29
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1	TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5745 MHz

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

RESULT:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	37.08	MHz	Information
T1 26dB	---	---	5726.2000	MHz	Information
T2 26dB	---	---	5763.2800	MHz	Information

Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_15012020_154915.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.63 | 11.83 | 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:	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.62	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	30	7.62	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.69	7.62	dBm	not applicable
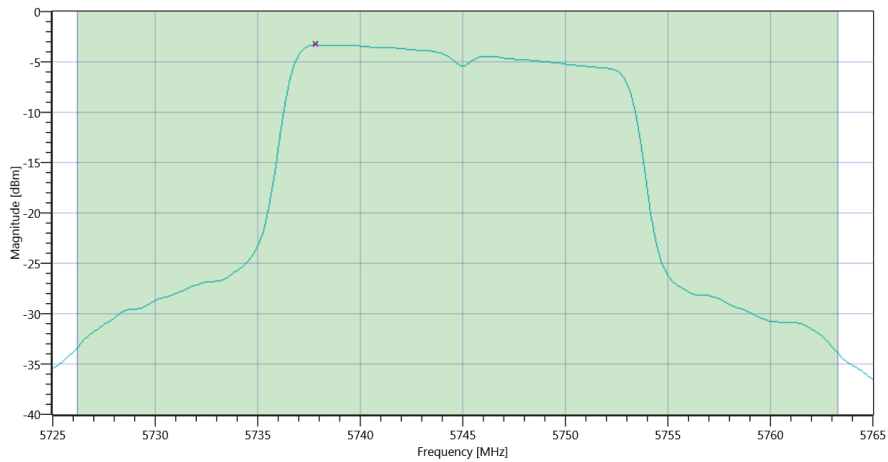
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_15012020_154938.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.63 | 11.83 | 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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.35	dBm/0.5MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	30	-6.35	dBm/0.5MHz	PASS
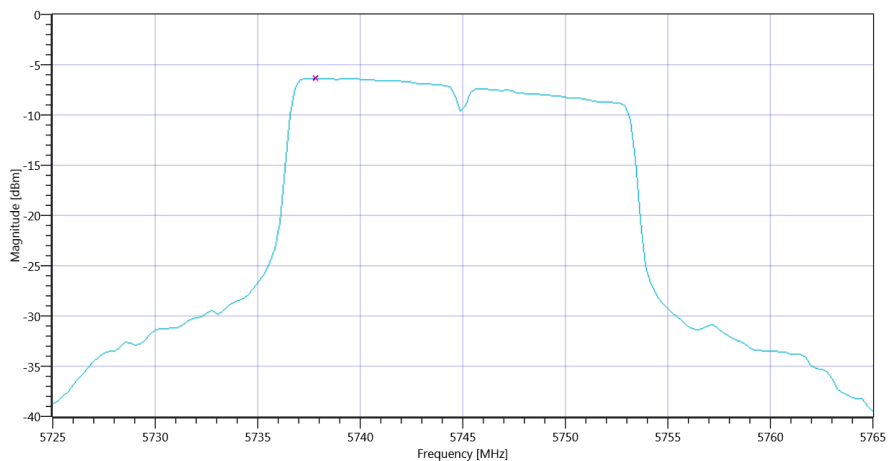
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_15012020_155001.png

TEST FINISHED		
General Verdict	15.01.2020 15:50:02 / RT: 75 s	PASS

39. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3

Test References	
TC Start	15.01.2020 15:50:06
System Version	1.0.0.29
Test Specification	ISED
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 | TCID_FCC15407_3
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60

Test at TX 5745 MHz

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

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	19.341	MHz	Information
T1 99%	---	---	5734.7303	MHz	Information
T2 99%	---	---	5754.0709	MHz	Information
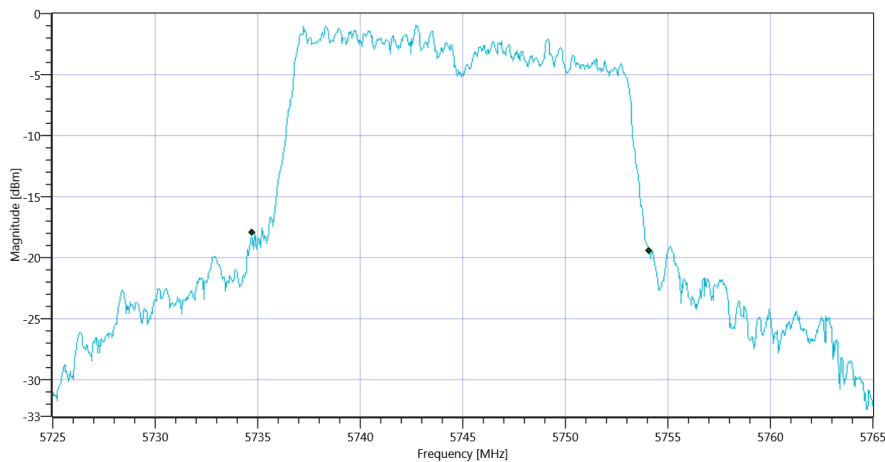
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_15012020_155040.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.50 | 11.83 | 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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.59	dBm	Information
Duty Cycle Correction	---	---	0	dB	Information
Limit absolute					
Max Output Power DC corrected	---	30	7.59	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.86	7.59	dBm	not applicable
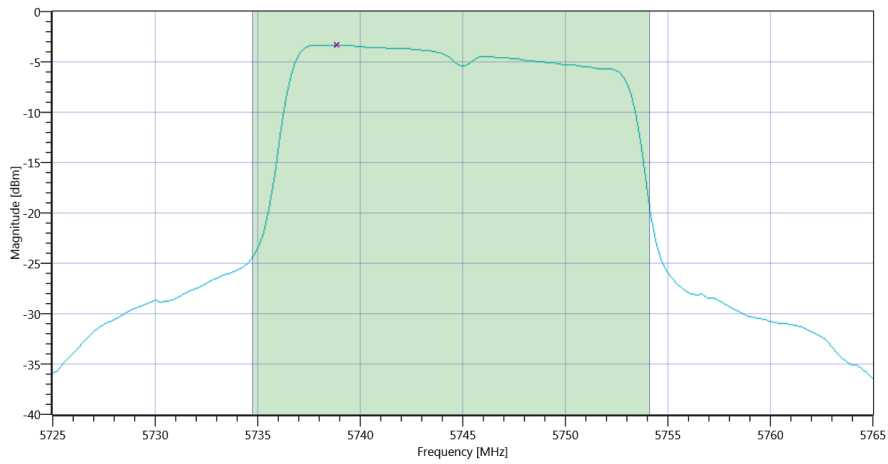
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_15012020_155106.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.50 | 11.83 | 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: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.31	dBm/0.5MHz	Information
Duty Cycle Correction	---	---	0	dB	Information
Power Spectral Density DC corrected	---	30	-6.31	dBm/0.5MHz	PASS
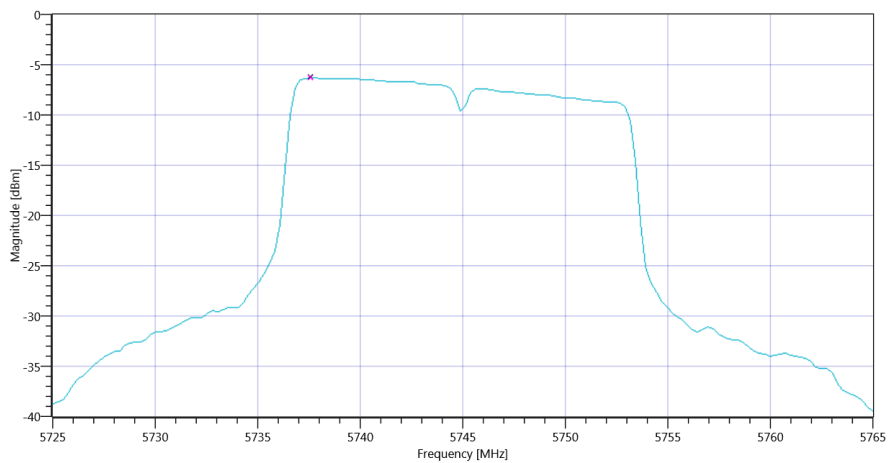
Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_15012020_155131.png

TEST FINISHED		
General Verdict	15.01.2020 15:51:32 / RT: 85 s	PASS

40. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-3

Test References	
TC Start	15.01.2020 15:51:37
System Version	1.0.0.29
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version / TC ID	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1	TCID_FCC15407_1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a 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-30,1321.3008K30/103170,3.60