

Measurement Results

1-8503/19-01-05_Annex_MR_A_1

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Document authorized:

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IUT Summary

IUT DEFINITION	
Manufacturer	Ingenico Group
Type	Xtra module
Serial No. Setup No.	190682203011067808006807 1.0
SW Version HW Version	NI NI
Comment 1 2	
IUT Common Settings	
Tlow Tmid Thigh [°C]	0 20 40
Vlow Vmid Vhigh [V] @Imax [A]	5 5 5 @1
Auto Control enabled Power Supply Climatic Box	No No
Antenna Gain [dBi]	0
Additional Path Loss [dB]	0.7
IUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No

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

Test References

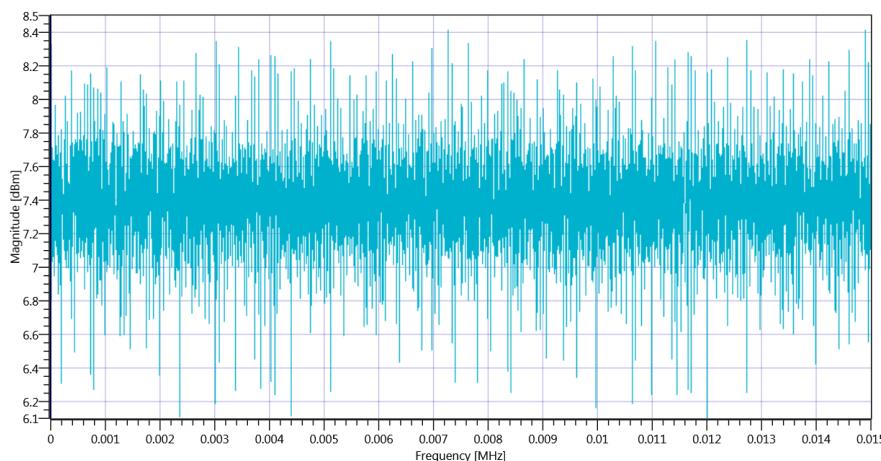
TC Start	30.08.2019 16:58:02
System Version	1.0.0.20
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
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-30,1321.3008K30/103170,3.40

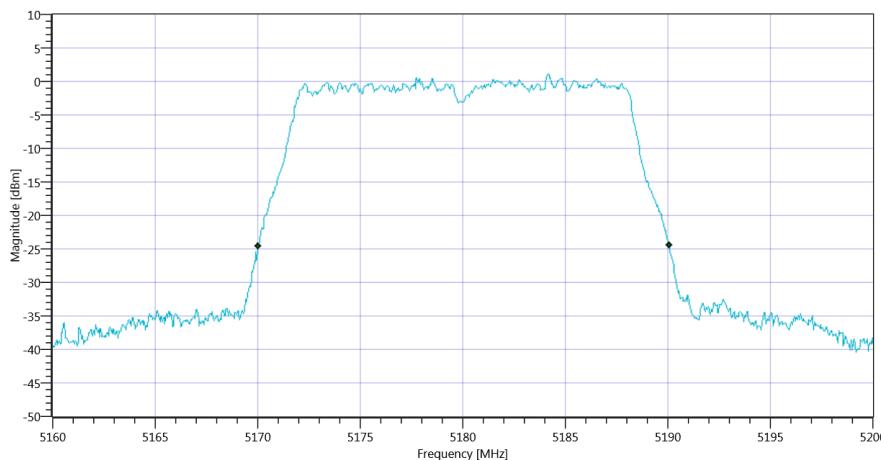
Test at TX 5180 MHz

RESULT: Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5180 MHz - Duty Cycle_30082019_165815.png

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	--	--	5170.0400	MHz	Information
T2 26dB	--	--	5190.0800	MHz	Information



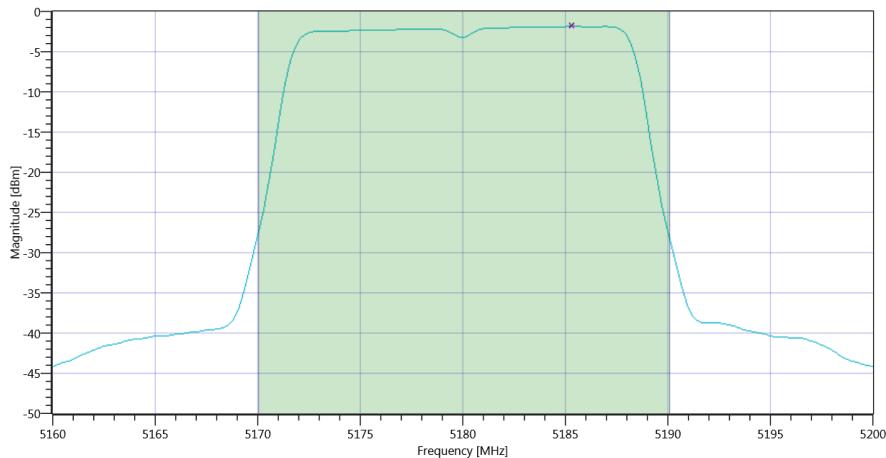
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_30082019_165826.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.93 11.86 25
Start [MHz] Stop [MHz]	5160.000 5200.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	8000 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	--	--	9.73	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	9.73	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	24.02	9.73	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_30082019_165839.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-1.87	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-1.87	dBm/1MHz	PASS

TEST FINISHED

General Verdict

30.08.2019 16:58:39 / RT: 37 s

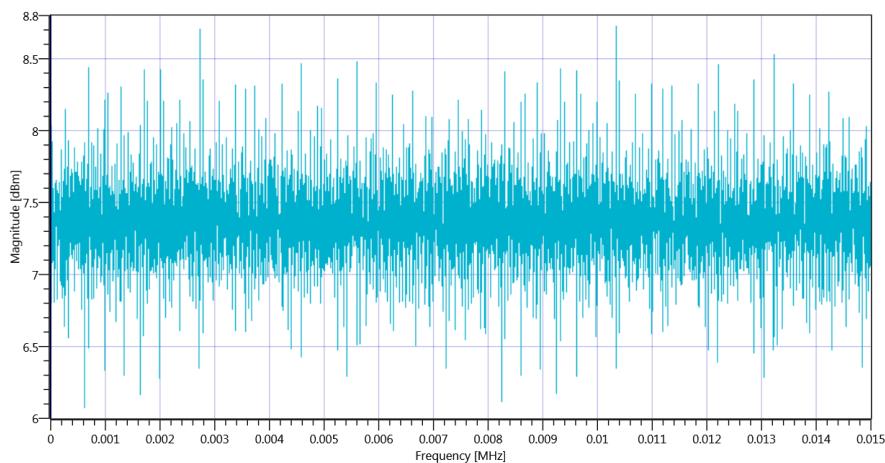
PASS

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

Test References	
TC Start	30.08.2019 16:58:43
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

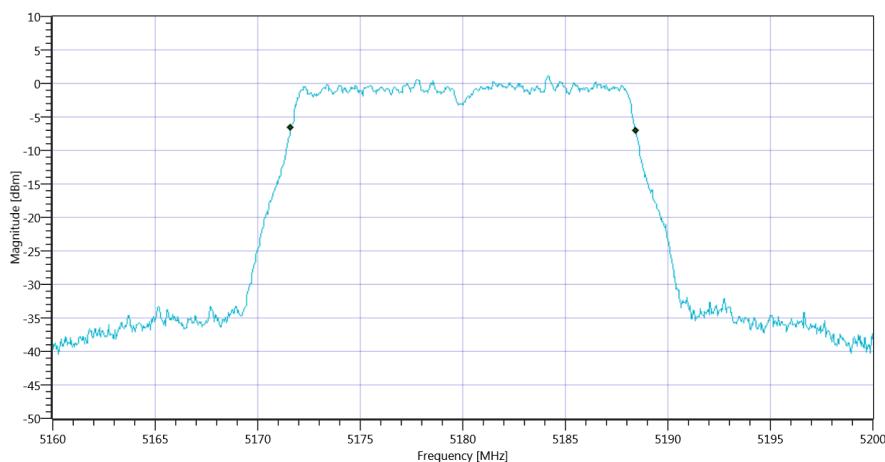
Test at TX 5180 MHz

RESULT: Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5180 MHz - Duty Cycle_30082019_165856.png

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%	--	--	5171.6084	MHz	Information
T2 99%	--	--	5188.4316	MHz	Information

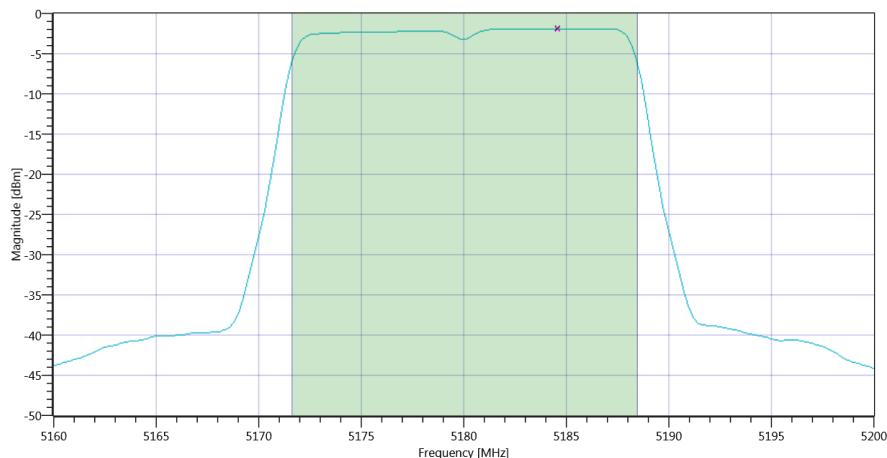


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_30082019_165907.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB]
InpAtt [dB]	17.95 11.86 25
Start [MHz]	Stop [MHz]
5160.000	5200.000
RBW [MHz]	VBW [MHz]
1.000000	3.000000
Detector	TraceMode
RMS	MAXH
Sweep: Time [ms]	Count Points per Section Type
8000	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	--	--	9.66	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	9.66	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	23.26	9.66	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_30082019_165920.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-1.9	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-1.9	dBm/1MHz	PASS

TEST FINISHED

General Verdict

30.08.2019 16:59:20 / RT: 37 s

PASS

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

Test References	
TC Start	30.08.2019 16:59:24
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

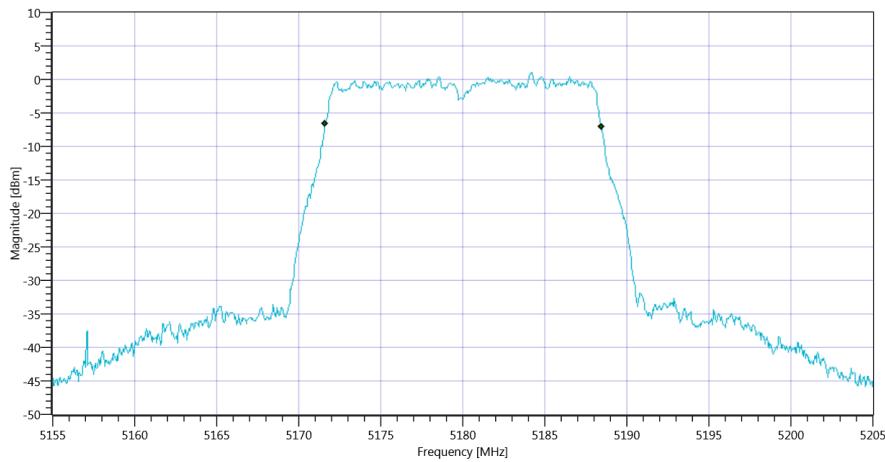
Test at TX 5180 MHz

READ SA SETTINGS:

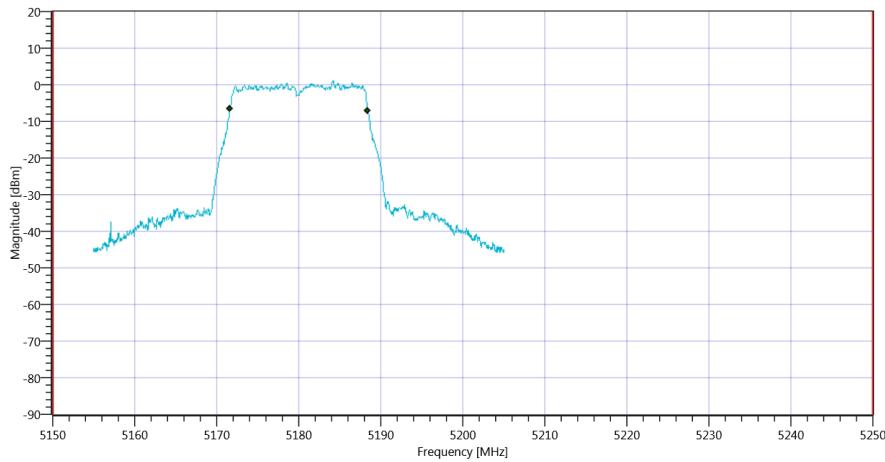
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.85 11.86 20
Start [MHz] Stop [MHz]	5155.000 5205.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.833	MHz	Information
T1 99%	5150.000000	--	5171.6084	MHz	PASS
T2 99%	--	5250.000000	5188.4416	MHz	PASS



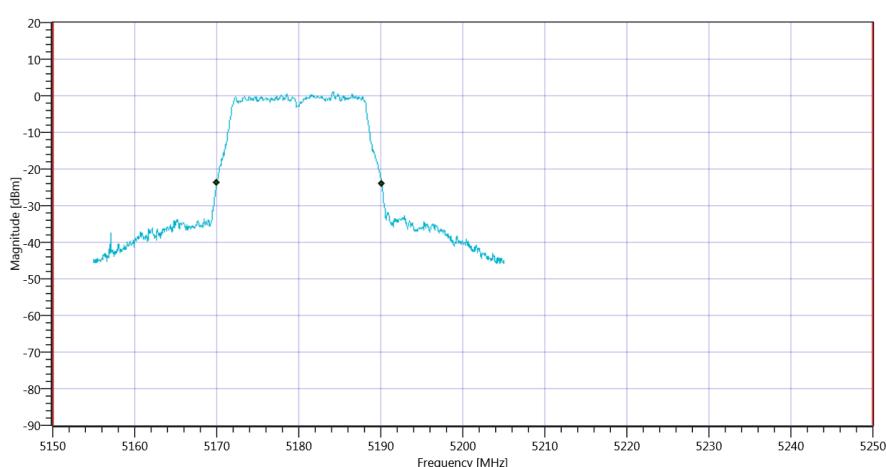
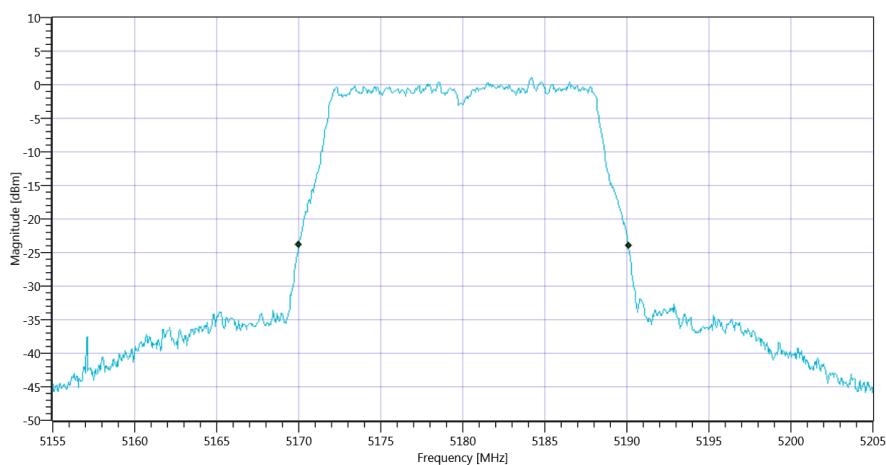
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 99PCT_30082019_165948.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_30082019_165951.png

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.1	MHz	Information
T1 26dB	5150.000000	--	5170.0000	MHz	PASS
T2 26dB	--	5250.000000	5190.1000	MHz	PASS



TEST FINISHED

General Verdict

30.08.2019 16:59:58 / RT: 33 s

PASS

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

Test References

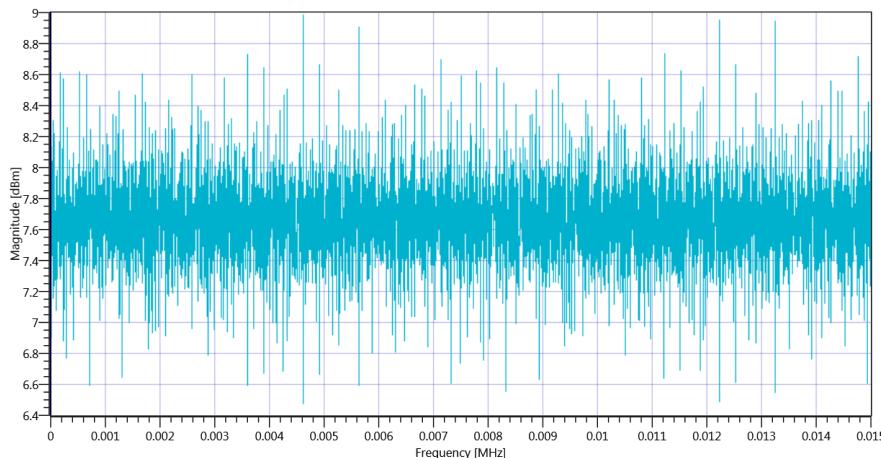
TC Start	30.08.2019 17:01:11
System Version	1.0.0.20
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
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-30,1321.3008K30/103170,3.40

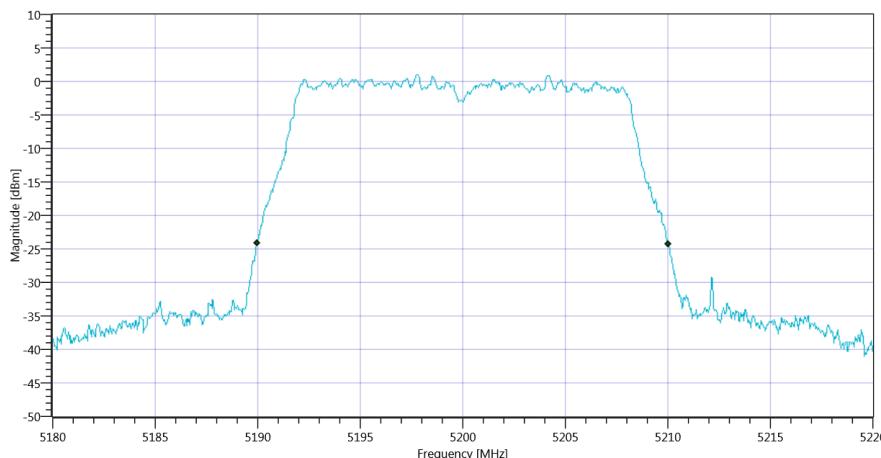
Test at TX 5200 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5200 MHz - Duty Cycle_30082019_170123.png

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.08	MHz	Information
T1 26dB	--	--	5189.9600	MHz	Information
T2 26dB	--	--	5210.0400	MHz	Information

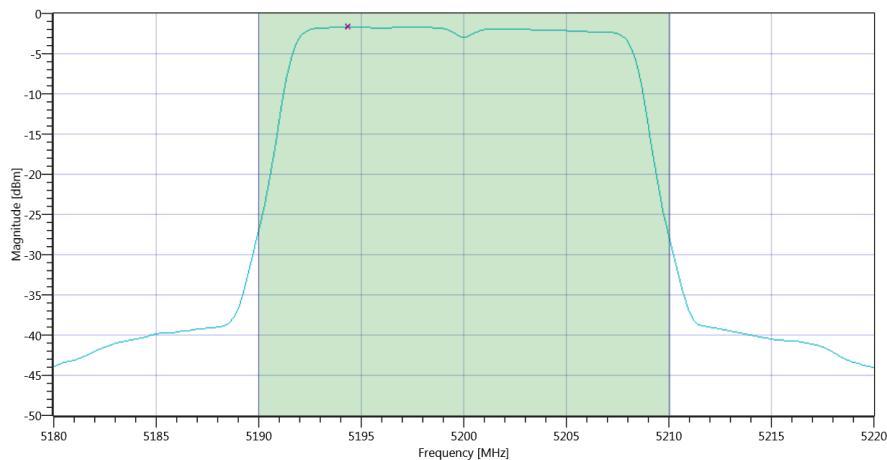


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_30082019_170131.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB] InpAtt [dB]
Start [MHz]	Stop [MHz]
RBW [MHz]	VBW [MHz]
Detector	TraceMode
Sweep: Time [ms]	Count Points per Section Type

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	9.92	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	9.92	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	24.03	9.92	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_30082019_170144.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-1.72	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-1.72	dBm/1MHz	PASS

TEST FINISHED

General Verdict

30.08.2019 17:01:44 / RT: 33 s

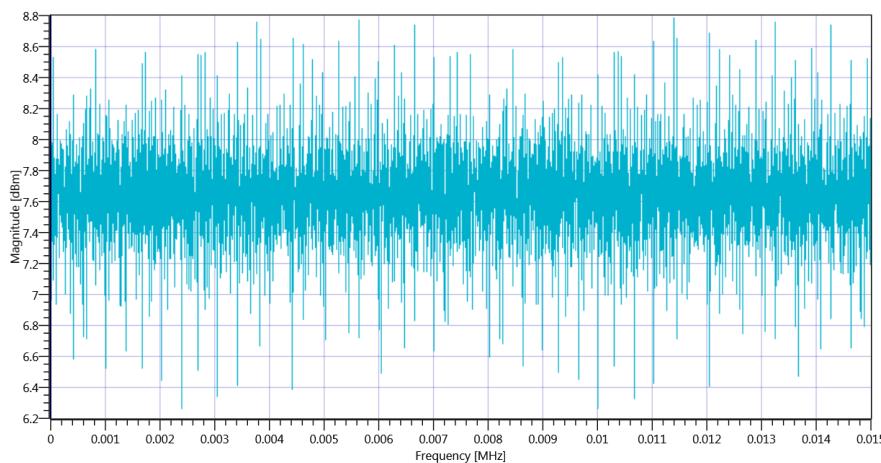
PASS

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

Test References	
TC Start	30.08.2019 17:01:48
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

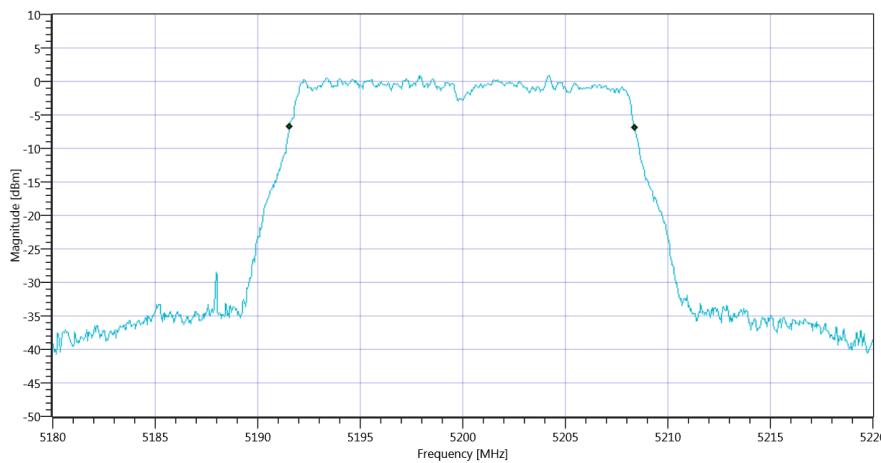
Test at TX 5200 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5200 MHz - Duty Cycle_30082019_170201.png

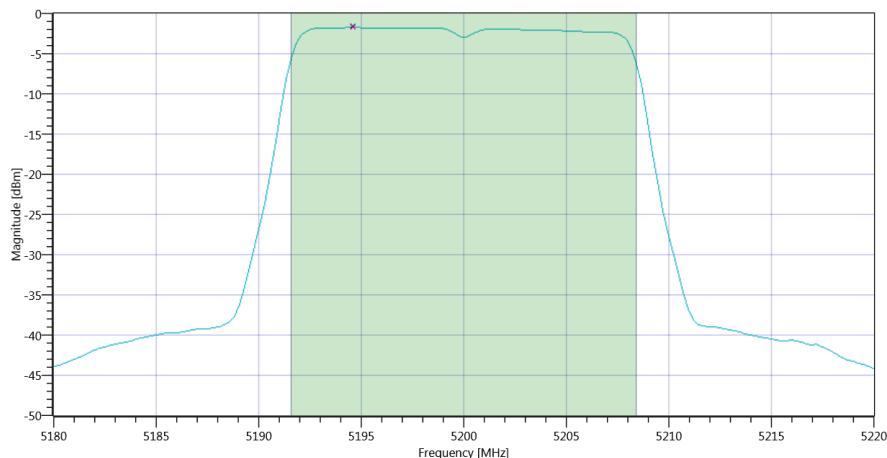
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.823	MHz	Information
T1 99%	--	--	5191.5684	MHz	Information
T2 99%	--	--	5208.3916	MHz	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_30082019_170208.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB]
InpAtt [dB]	18.15 11.89 25
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
8000	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	--	--	9.82	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	9.82	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	23.26	9.82	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_30082019_170221.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-1.76	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-1.76	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	30.08.2019 17:02:22 / RT: 33 s	PASS

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

Test References	
TC Start	30.08.2019 17:02:26
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

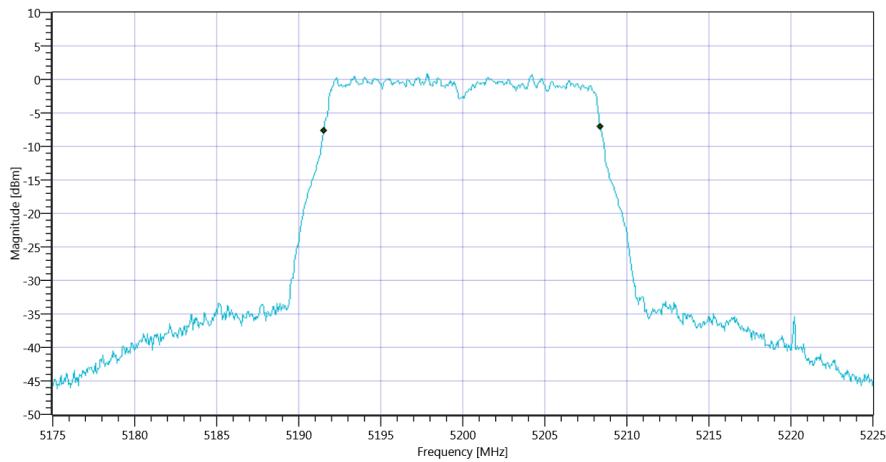
Test at TX 5200 MHz

READ SA SETTINGS:

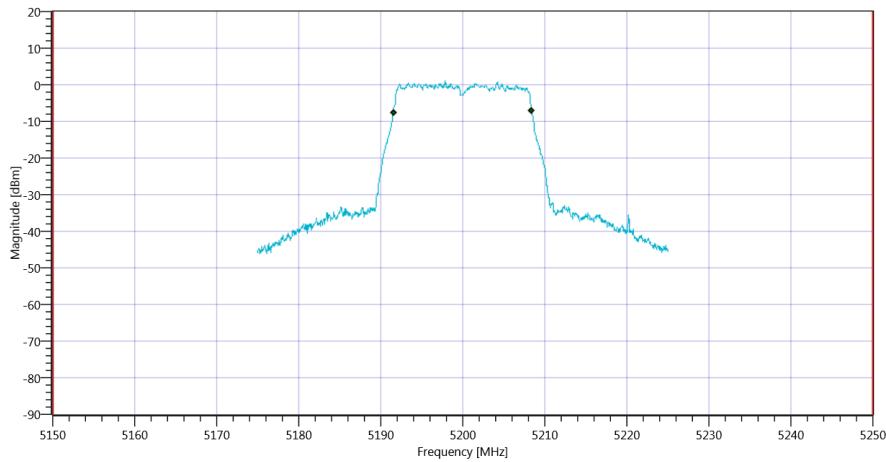
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.13 11.89 20
Start [MHz] Stop [MHz]	5175.000 5225.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

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	--	5191.5584	MHz	PASS
T2 99%	--	5250.000000	5208.3916	MHz	PASS



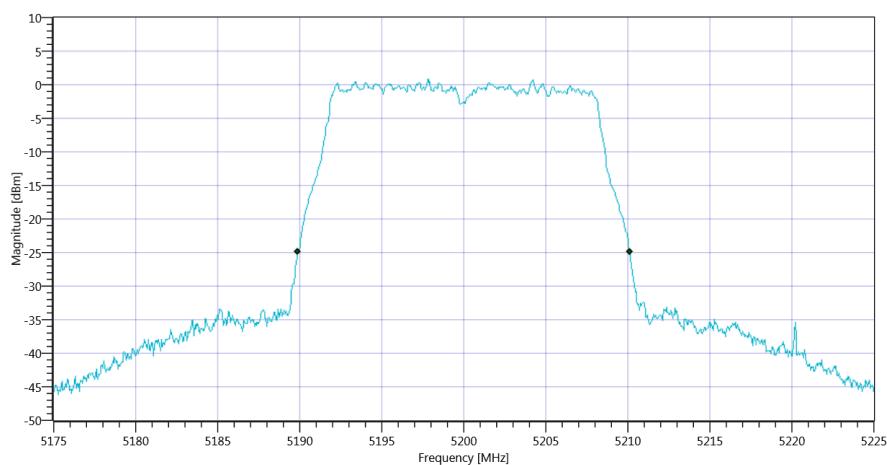
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 99PCT_30082019_170250.png



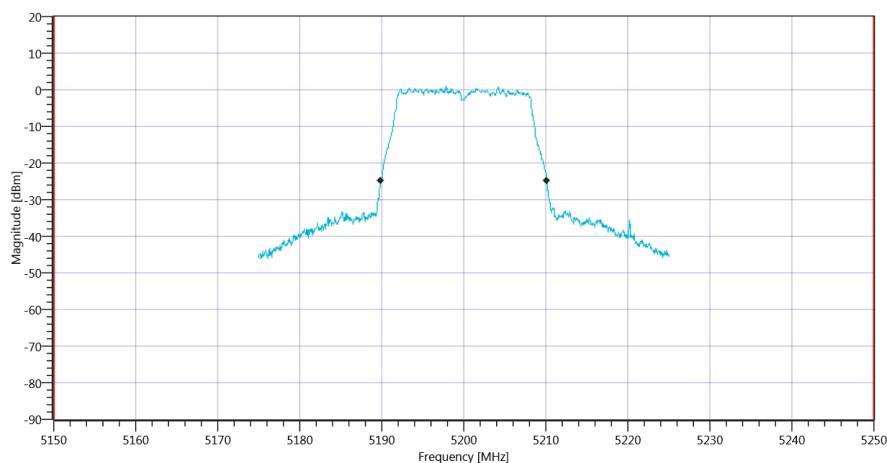
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_30082019_170253.png

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	--	5189.9000	MHz	PASS
T2 26dB	--	5250.000000	5210.1000	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 26dB_30082019_170257.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_30082019_170259.png

TEST FINISHED

General Verdict

30.08.2019 17:03:00 / RT: 33 s

PASS

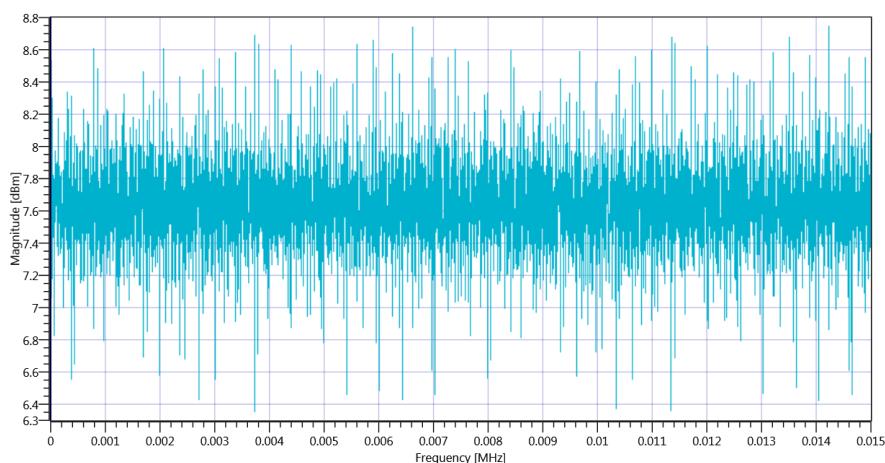
7. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	30.08.2019 17:03:20
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

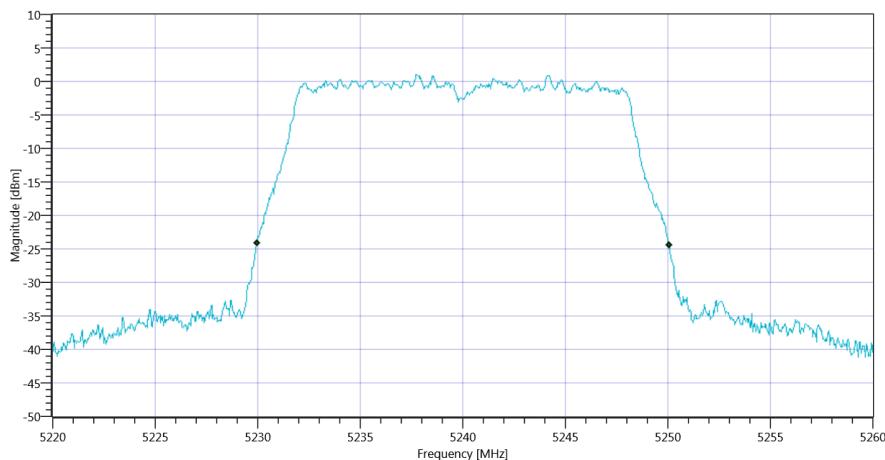
Test at TX 5240 MHz

RESULT: Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5240 MHz - Duty Cycle_30082019_170333.png

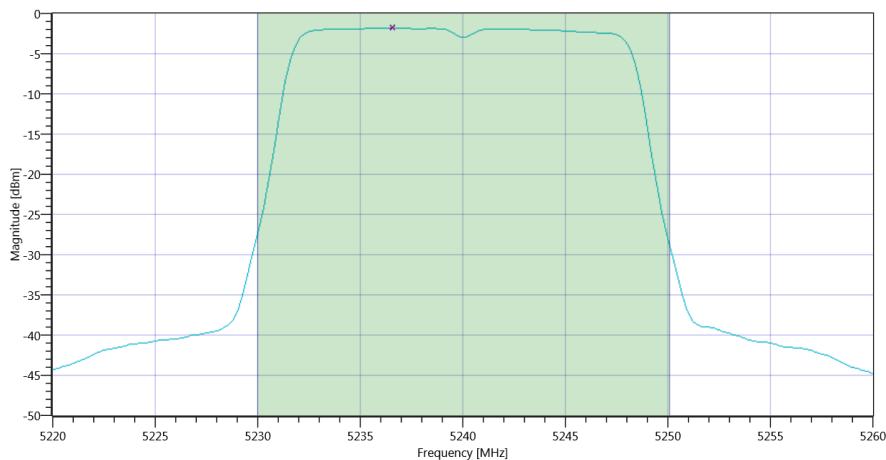
RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.12	MHz	Information
T1 26dB	--	--	5229.9600	MHz	Information
T2 26dB	--	--	5250.0800	MHz	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_30082019_170341.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB] InpAtt [dB]
Start [MHz]	Stop [MHz]
RBW [MHz]	VBW [MHz]
Detector	TraceMode
Sweep: Time [ms]	Count Points per Section Type

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	9.82	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	9.82	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	24.04	9.82	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_30082019_170353.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-1.86	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-1.86	dBm/1MHz	PASS

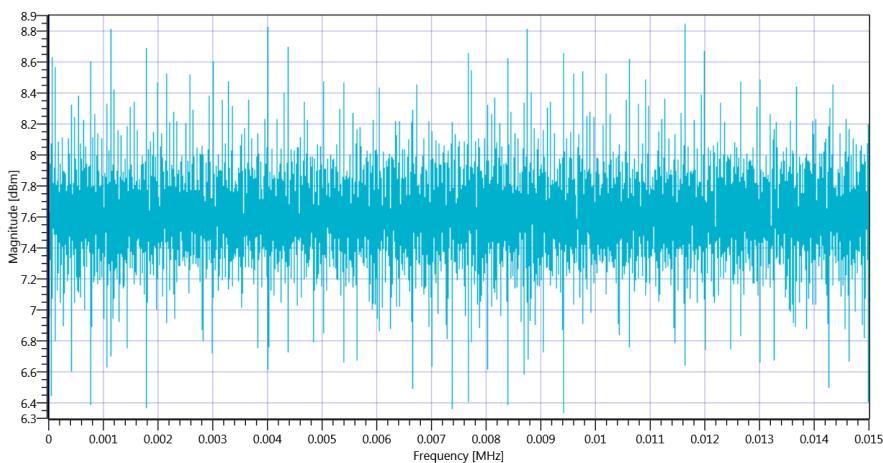
TEST FINISHED		
General Verdict	30.08.2019 17:03:54 / RT: 33 s	PASS

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

Test References	
TC Start	30.08.2019 17:03:58
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

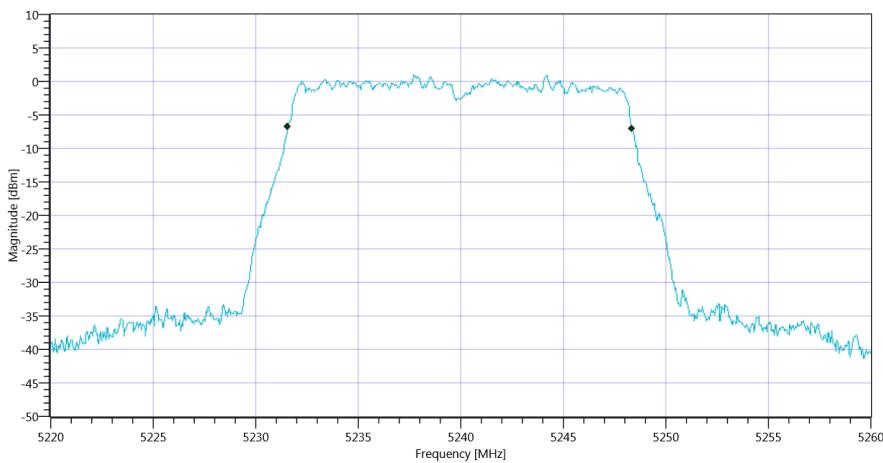
Test at TX 5240 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5240 MHz - Duty Cycle_30082019_170411.png

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.783	MHz	Information
T1 99%	--	--	5231.5684	MHz	Information
T2 99%	--	--	5248.3516	MHz	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_30082019_170418.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]

17.82 | 12.01 | 20

Start [MHz] | Stop [MHz]

5220.000 | 5260.000

RBW [MHz] | VBW [MHz]

1.000000 | 3.000000

Detector | TraceMode

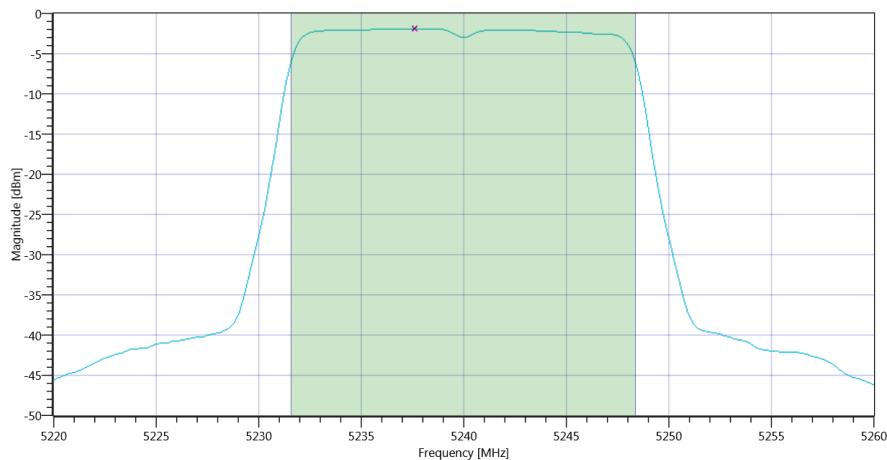
RMS | MAXH

Sweep: Time [ms] | Count | Points per Section | Type

8000 | 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	--	--	9.63	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	9.63	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	23.25	9.63	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_30082019_170431.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-1.93	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-1.93	dBm/1MHz	PASS

TEST FINISHED

General Verdict

30.08.2019 17:04:32 / RT: 33 s

PASS

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

Test References

TC Start	30.08.2019 17:04:36
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

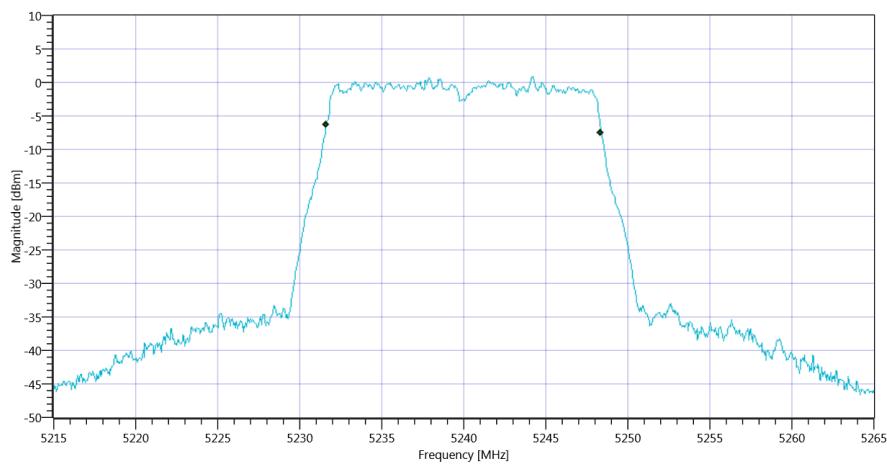
Test at TX 5240 MHz

READ SA SETTINGS:

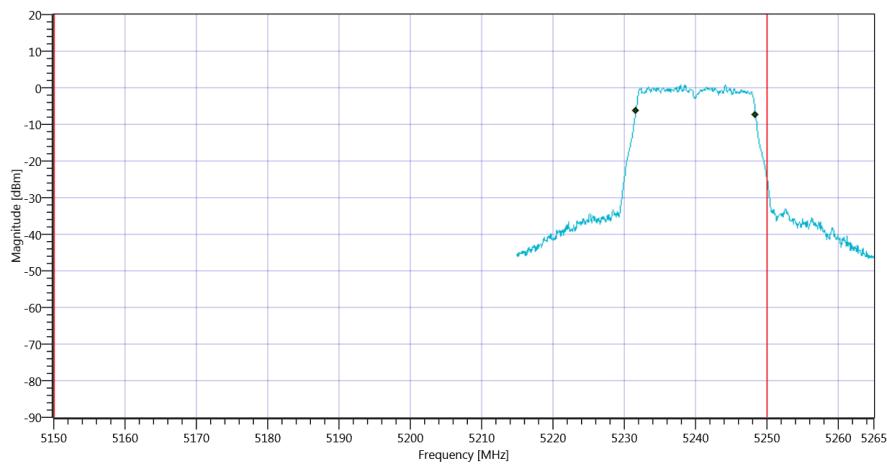
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.28 12.01 20
Start [MHz] Stop [MHz]	5215.000 5265.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.733	MHz	Information
T1 99%	5150.000000	--	5231.6084	MHz	PASS
T2 99%	--	5250.000000	5248.3417	MHz	PASS



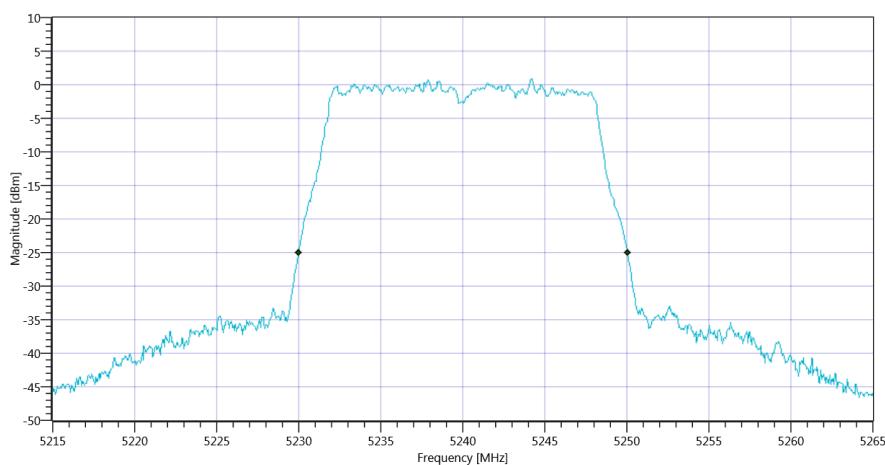
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 99PCT_30082019_170454.png



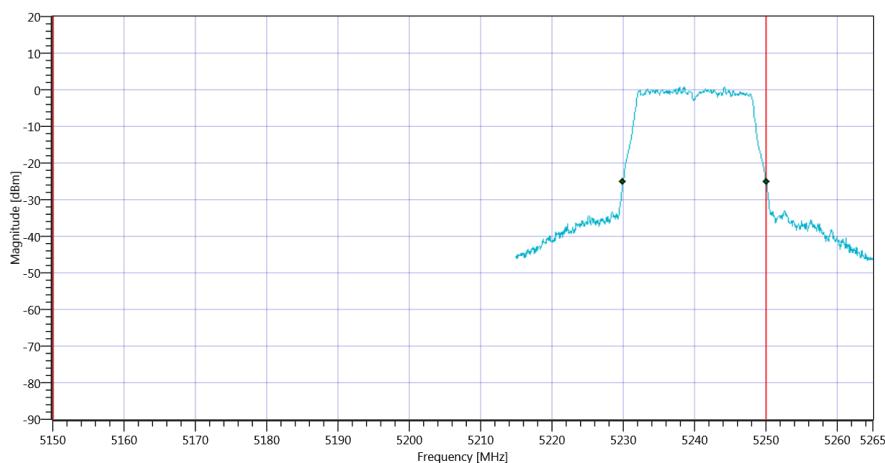
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_30082019_170457.png

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	--	5230.0000	MHz	PASS
T2 26dB	--	5250.000000	5250.0500	MHz	DFS required



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 26dB_30082019_170500.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_30082019_170503.png

TEST FINISHED

General Verdict

30.08.2019 17:05:03 / RT: 27 s

PASS

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

Test References

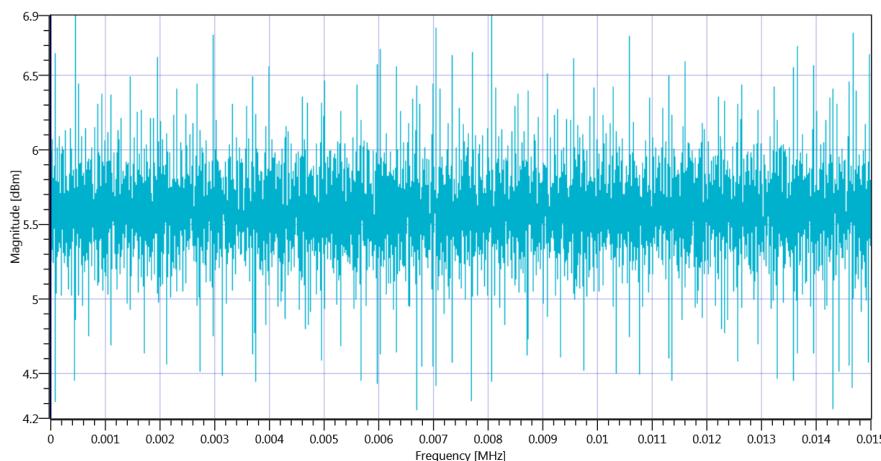
TC Start	30.08.2019 17:05:43
System Version	1.0.0.20
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
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-30,1321.3008K30/103170,3.40

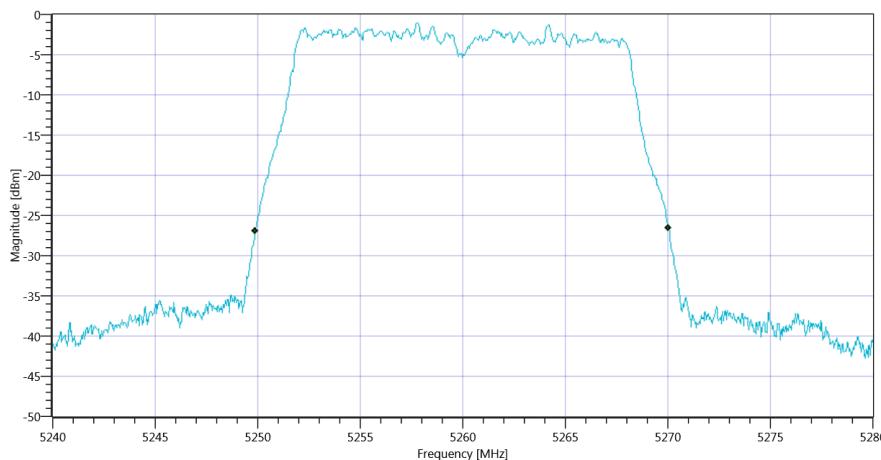
Test at TX 5260 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5260 MHz - Duty Cycle_30082019_170556.png

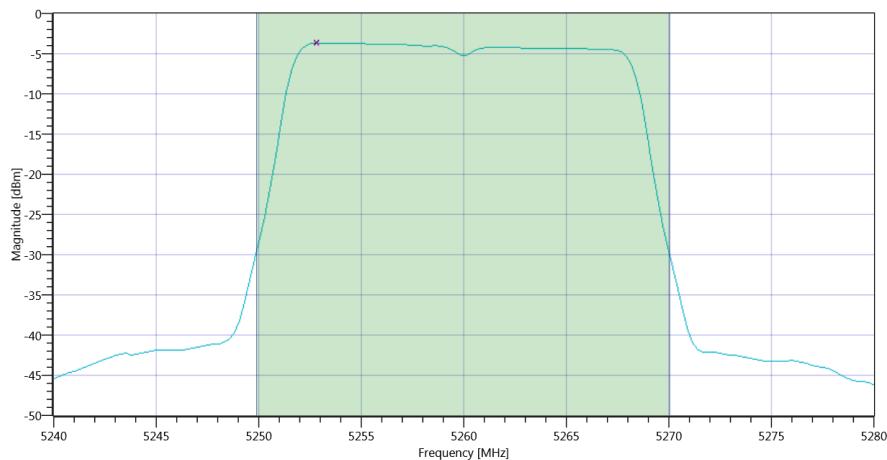
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.16	MHz	Information
T1 26dB	--	--	5249.8800	MHz	Information
T2 26dB	--	--	5270.0400	MHz	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_30082019_170603.png

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.06 12.06 20
Start [MHz] Stop [MHz]	5240.000 5280.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	8000 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	--	--	7.79	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	7.79	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	24.04	7.79	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_30082019_170616.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-3.68	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-3.68	dBm/1MHz	PASS

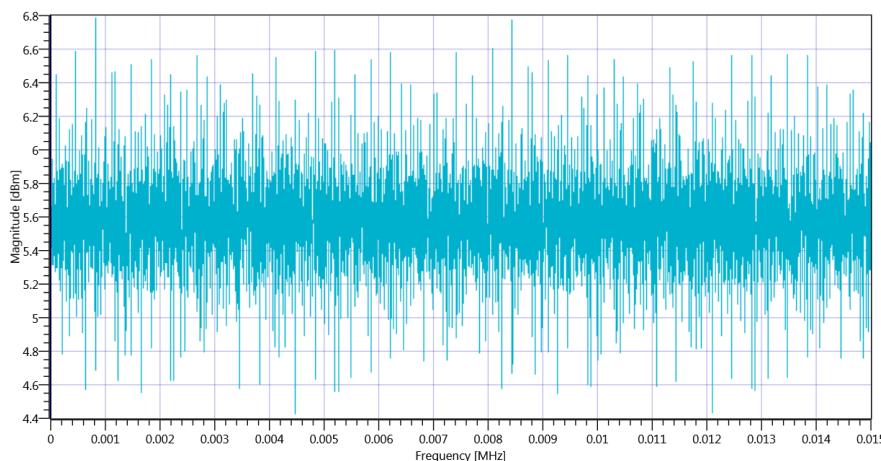
TEST FINISHED		
General Verdict	30.08.2019 17:06:17 / RT: 34 s	PASS

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

Test References	
TC Start	30.08.2019 17:06:21
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

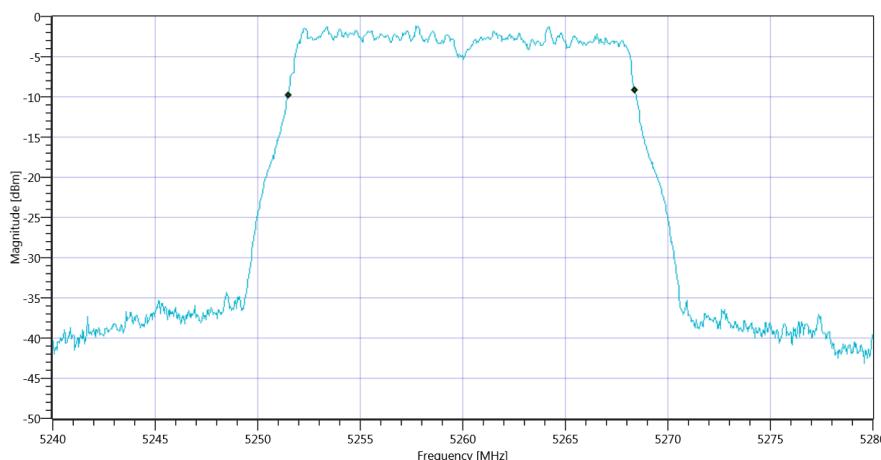
Test at TX 5260 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5260 MHz - Duty Cycle_30082019_170634.png

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.903	MHz	Information
T1 99%	--	--	5251.4885	MHz	Information
T2 99%	--	--	5268.3916	MHz	Information

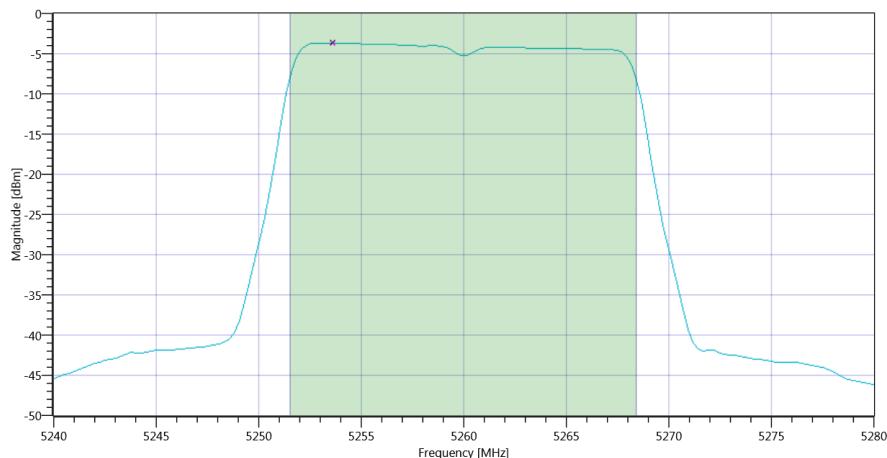


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_30082019_170641.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB] InpAtt [dB]
Start [MHz]	Stop [MHz]
RBW [MHz]	VBW [MHz]
Detector	TraceMode
Sweep: Time [ms]	Count Points per Section Type

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	7.71	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	7.71	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	23.28	7.71	dBm	PASS



PlotISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_30082019_170654.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-3.67	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-3.67	dBm/1MHz	PASS

TEST FINISHED

General Verdict

30.08.2019 17:06:55 / RT: 34 s

PASS

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

Test References

TC Start	30.08.2019 17:06:59
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

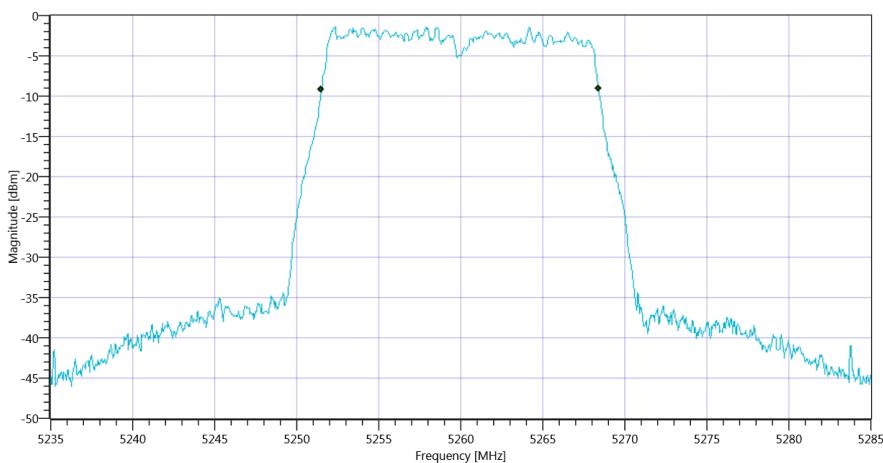
Test at TX 5260 MHz

READ SA SETTINGS:

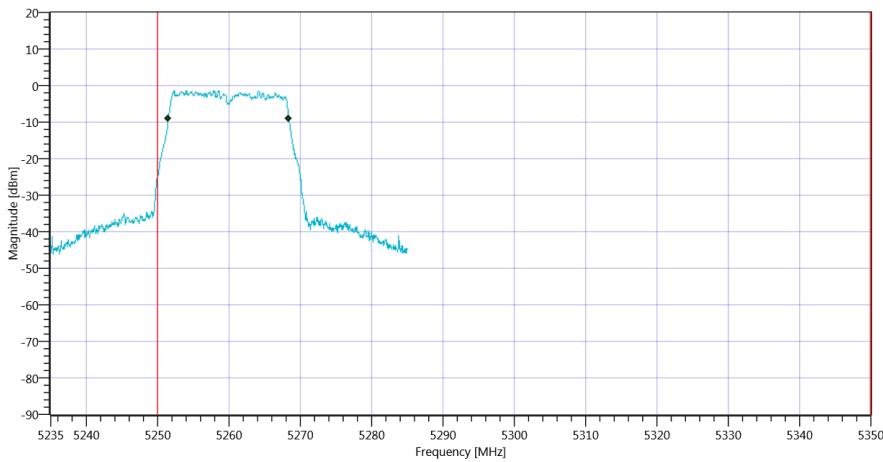
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.21 12.06 20
Start [MHz] Stop [MHz]	5235.000 5285.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.883	MHz	Information
T1 99%	5250.000000	--	5251.5085	MHz	PASS since U-NII-1 is supported
T2 99%	--	5350.000000	5268.3916	MHz	PASS



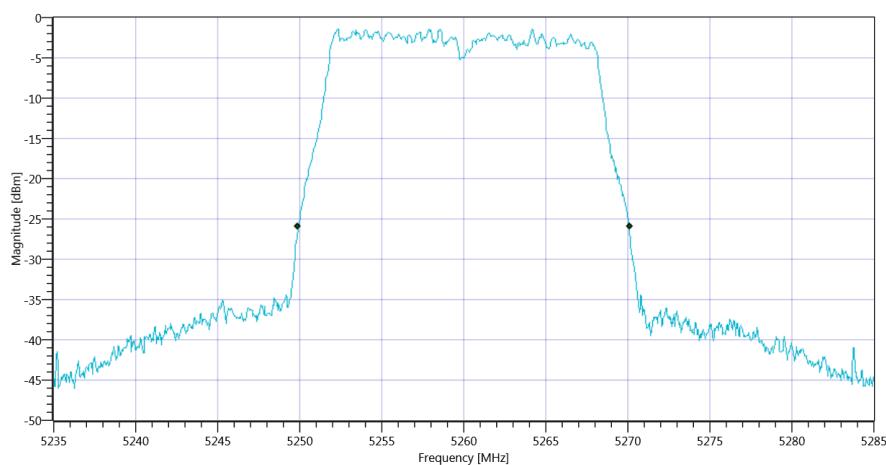
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 99PCT_30082019_170717.png



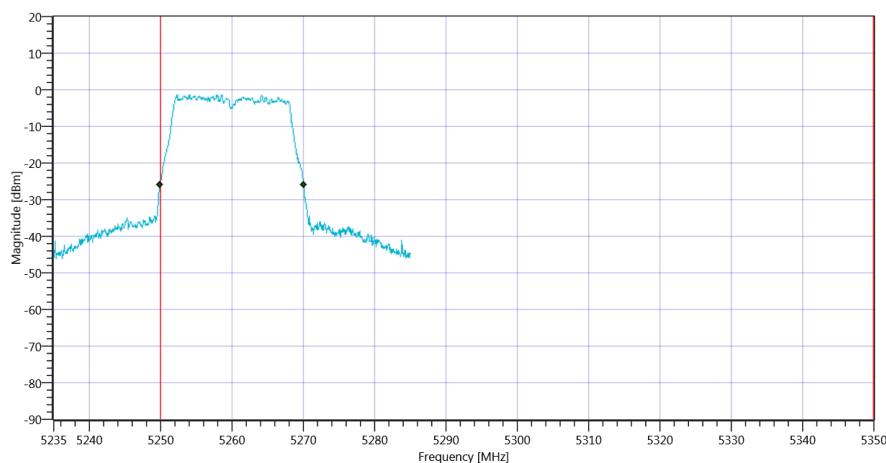
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_30082019_170720.png

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.2	MHz	Information
T1 26dB	5250.000000	--	5249.9000	MHz	PASS since U-NII-1 is supported
T2 26dB	--	5350.000000	5270.1000	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 26dB_30082019_170723.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_30082019_170726.png

TEST FINISHED

General Verdict

30.08.2019 17:07:26 / RT: 27 s

PASS

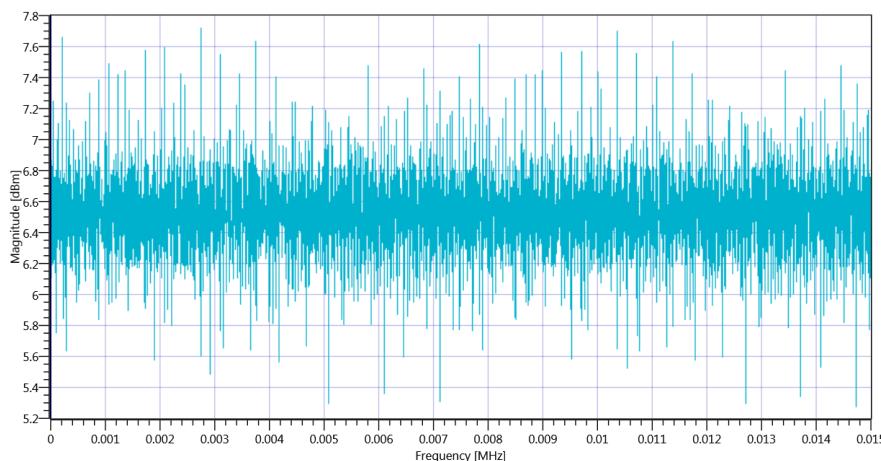
13. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	30.08.2019 17:07:46
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

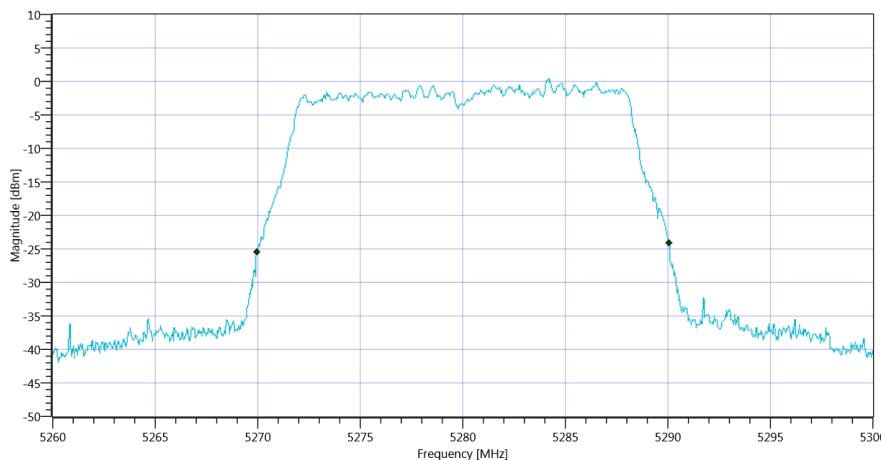
Test at TX 5280 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5280 MHz - Duty Cycle_30082019_170759.png

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.12	MHz	Information
T1 26dB	--	--	5269.9600	MHz	Information
T2 26dB	--	--	5290.0800	MHz	Information



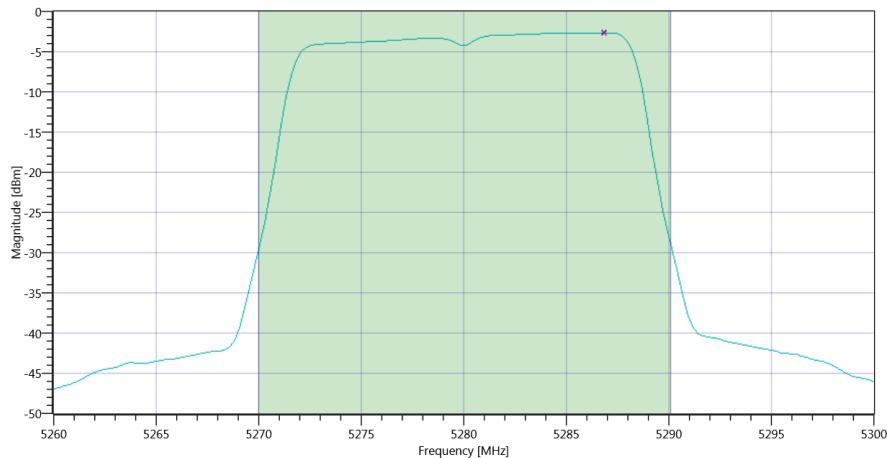
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_30082019_170807.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.21 12.11 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	8000 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	--	--	8.63	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	8.63	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	24.04	8.63	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_30082019_170819.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-2.66	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-2.66	dBm/1MHz	PASS

TEST FINISHED

General Verdict

30.08.2019 17:08:20 / RT: 34 s

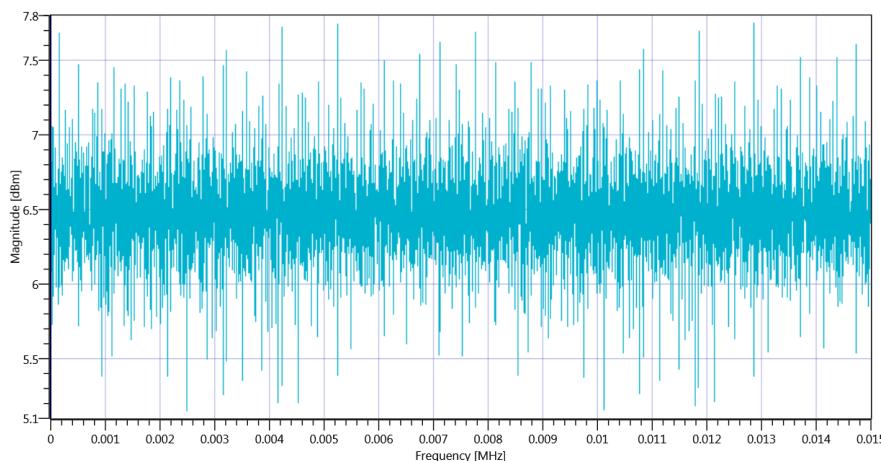
PASS

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

Test References	
TC Start	30.08.2019 17:08:24
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

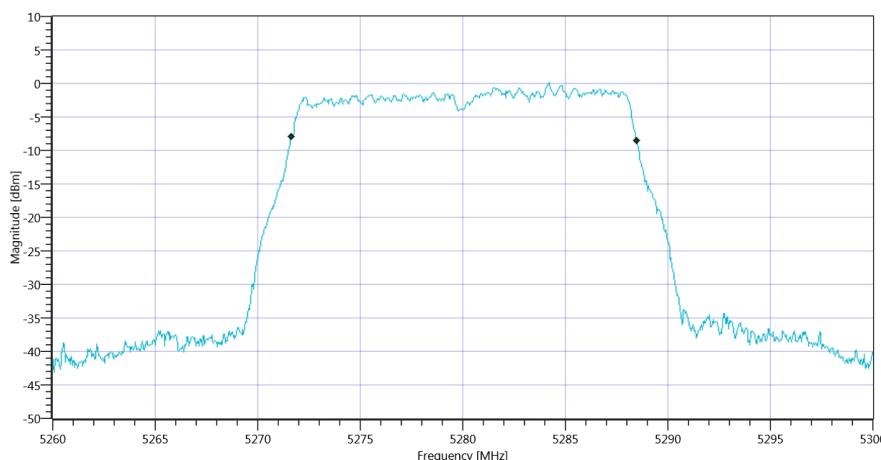
Test at TX 5280 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5280 MHz - Duty Cycle_30082019_170837.png

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.823	MHz	Information
T1 99%	--	--	5271.6484	MHz	Information
T2 99%	--	--	5288.4715	MHz	Information

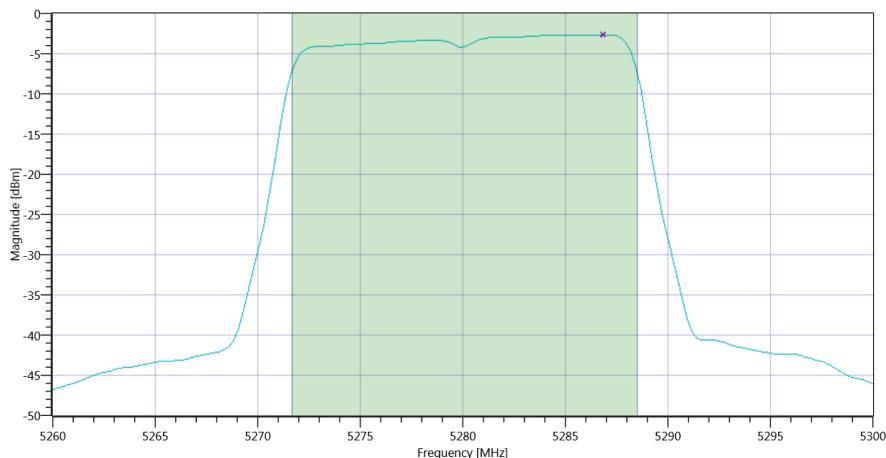


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_30082019_170844.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.87 12.11 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	8000 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	--	--	8.56	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	8.56	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	23.26	8.56	dBm	PASS



PlotISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_30082019_170858.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-2.66	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-2.66	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	30.08.2019 17:08:58 / RT: 34 s	PASS

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

Test References	
TC Start	30.08.2019 17:09:02
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

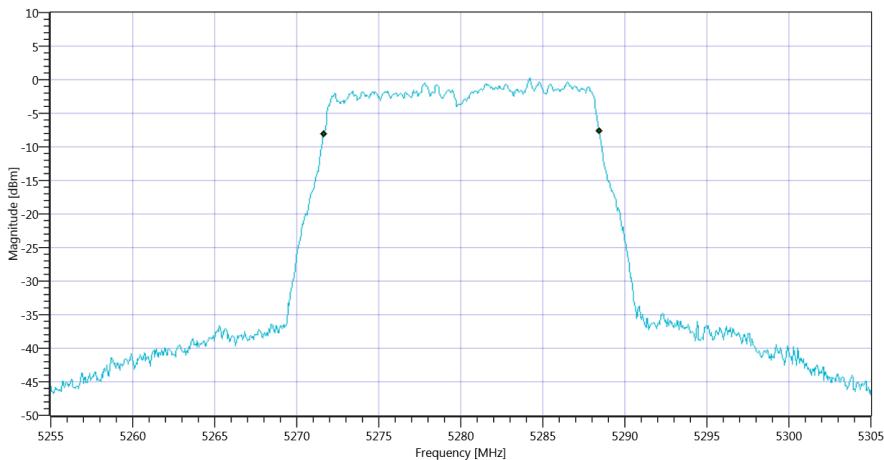
Test at TX 5280 MHz

READ SA SETTINGS:

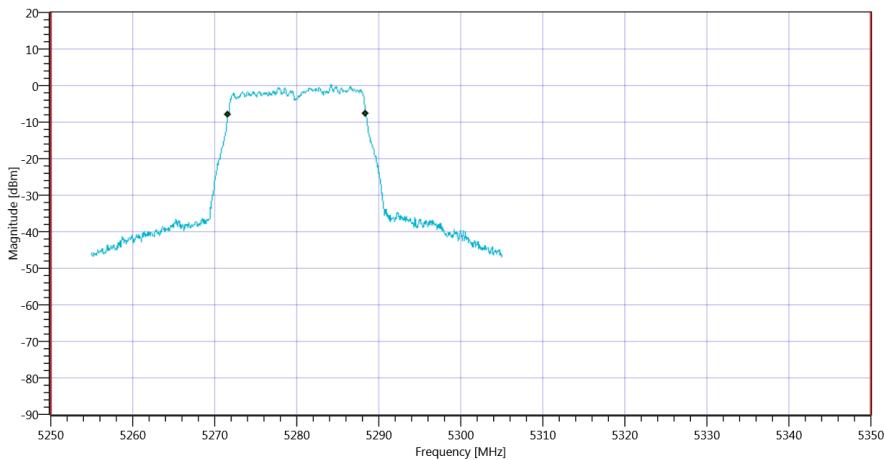
RefLevel [dBm] RefLevelOffset [dB] LpAtt [dB]	13.20 12.11 20
Start [MHz] Stop [MHz]	5255.000 5305.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.783	MHz	Information
T1 99%	5250.000000	--	5271.6583	MHz	PASS since U-NII-1 is supported
T2 99%	--	5350.000000	5288.4416	MHz	PASS



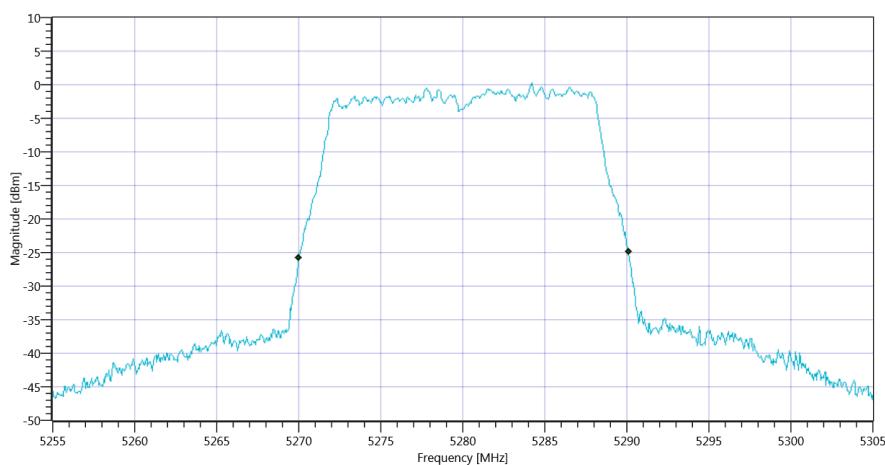
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 99PCT_30082019_170920.png



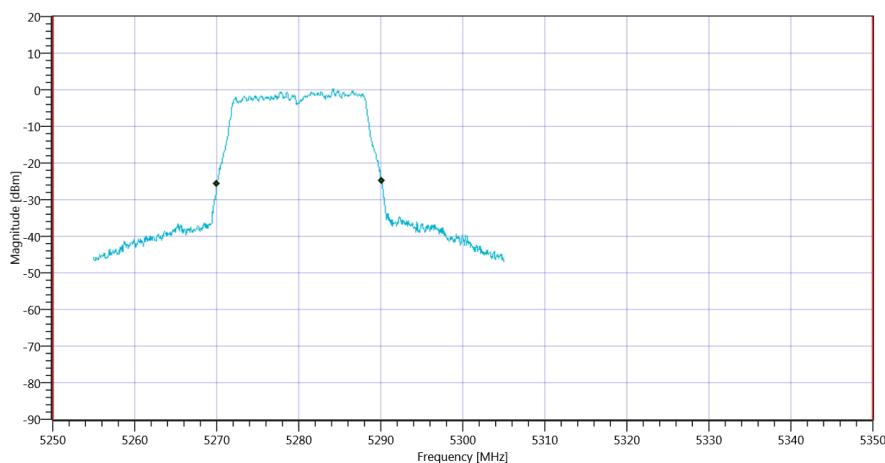
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_30082019_170923.png

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.1	MHz	Information
T1 26dB	5250.000000	--	5270.0000	MHz	PASS since U-NII-1 is supported
T2 26dB	--	5350.000000	5290.1000	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 26dB_30082019_170927.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_30082019_170929.png

TEST FINISHED

General Verdict

30.08.2019 17:09:30 / RT: 27 s

PASS

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

Test References

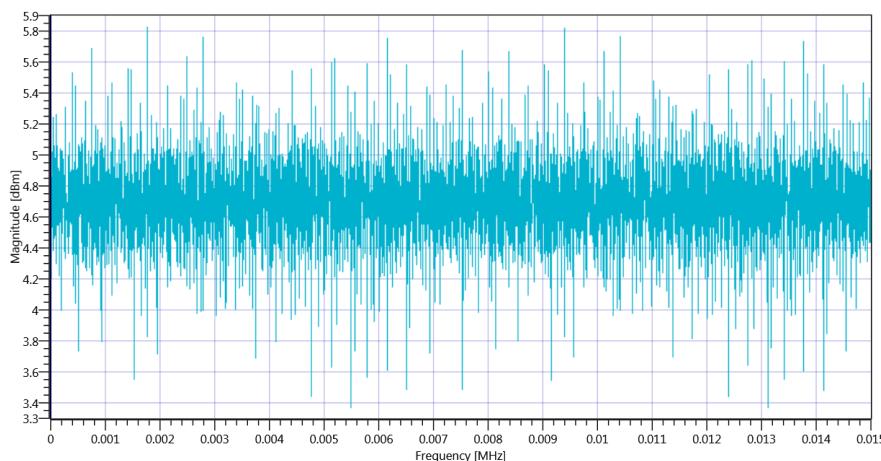
TC Start	30.08.2019 17:11:27
System Version	1.0.0.20
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
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-30,1321.3008K30/103170,3.40

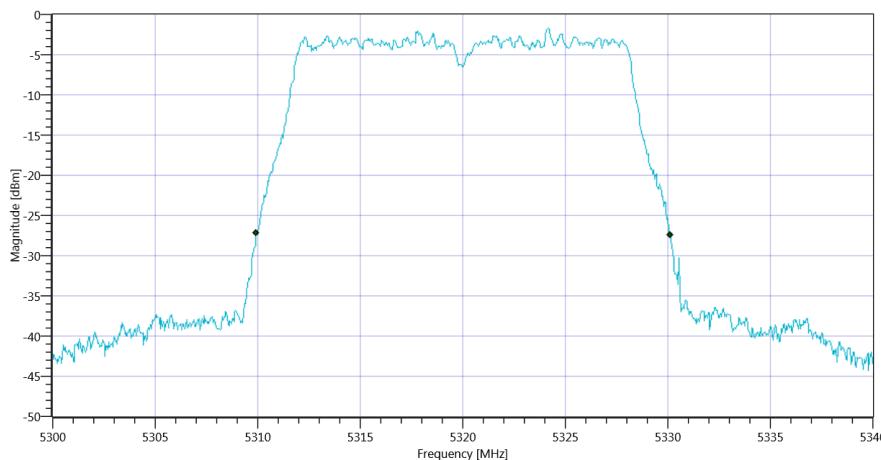
Test at TX 5320 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5320 MHz - Duty Cycle_30082019_171140.png

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.2	MHz	Information
T1 26dB	--	--	5309.9200	MHz	Information
T2 26dB	--	--	5330.1200	MHz	Information

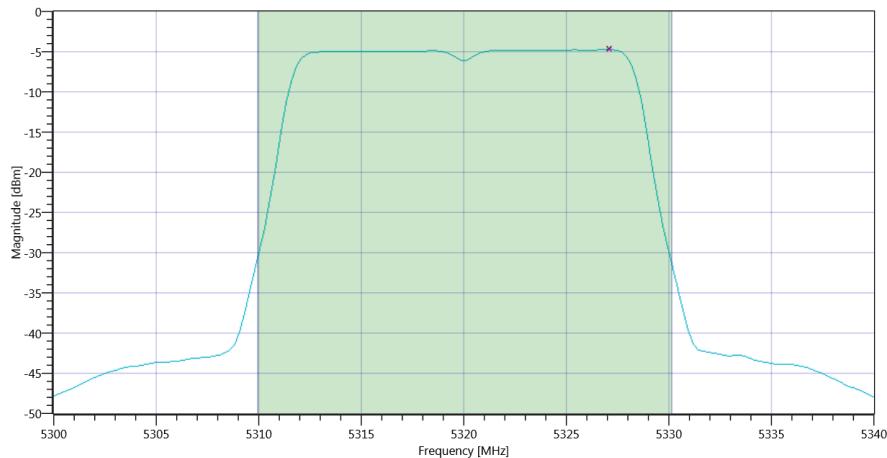


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_30082019_171148.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB] InpAtt [dB]
Start [MHz]	Stop [MHz]
RBW [MHz]	VBW [MHz]
Detector	TraceMode
Sweep: Time [ms]	Count Points per Section Type

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	6.96	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	6.96	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	24.05	6.96	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_30082019_171201.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-4.75	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-4.75	dBm/1MHz	PASS

TEST FINISHED

General Verdict

30.08.2019 17:12:01 / RT: 34 s

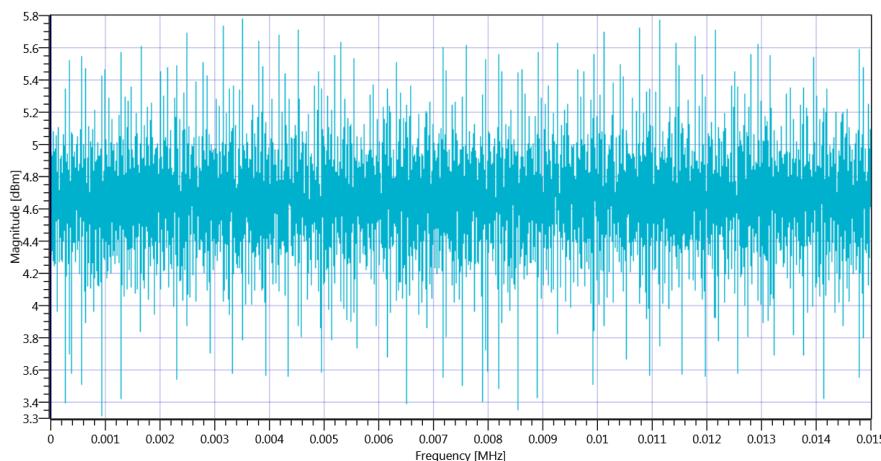
PASS

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

Test References	
TC Start	30.08.2019 17:12:05
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

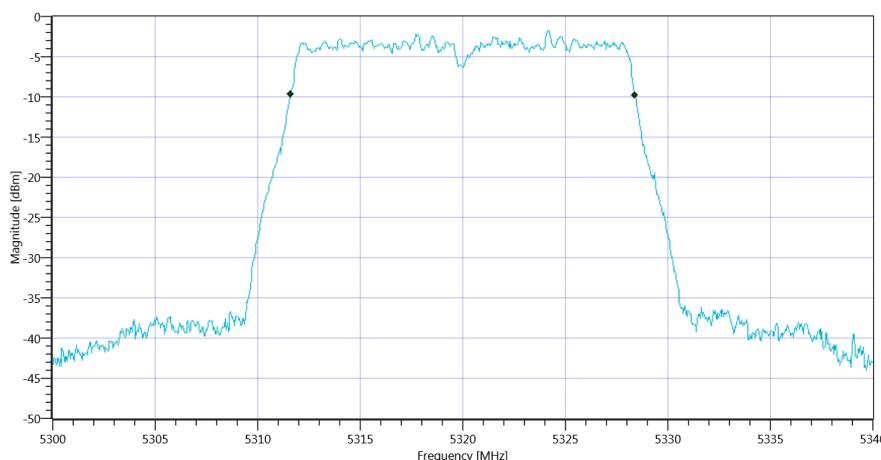
Test at TX 5320 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5320 MHz - Duty Cycle_30082019_171219.png

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.783	MHz	Information
T1 99%	--	--	5311.6084	MHz	Information
T2 99%	--	--	5328.3916	MHz	Information

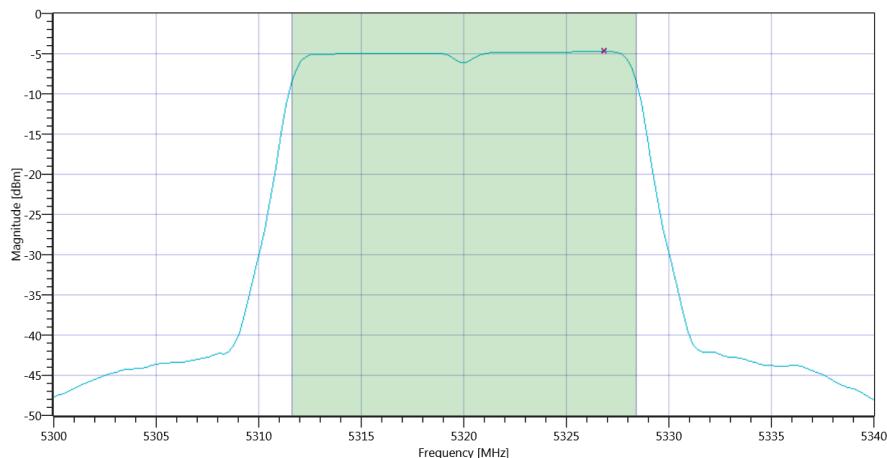


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_30082019_171226.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 12.09 20
Start [MHz] Stop [MHz]	5300.000 5340.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	8000 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	--	--	6.87	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	24	6.87	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	23.25	6.87	dBm	PASS



PlotISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_30082019_171239.png

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	--	--	-4.75	dBm/1MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	11	-4.75	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	30.08.2019 17:12:40 / RT: 34 s	PASS

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

Test References	
TC Start	30.08.2019 17:12:44
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

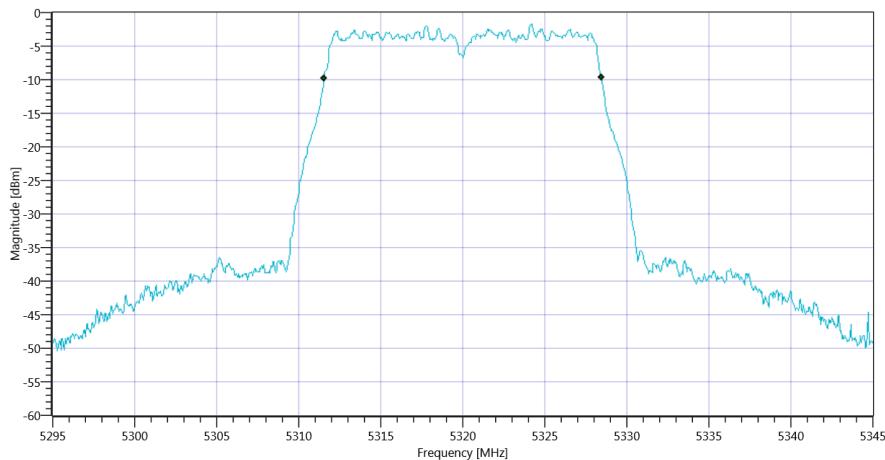
Test at TX 5320 MHz

READ SA SETTINGS:

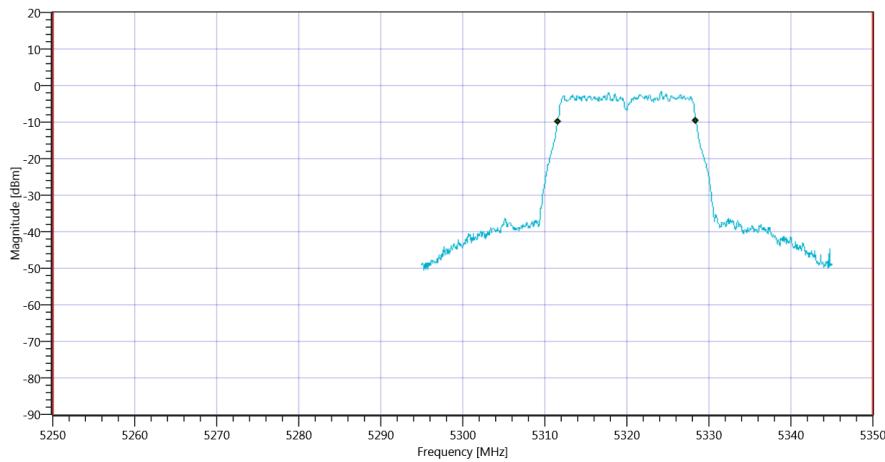
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.10 12.09 15
Start [MHz] Stop [MHz]	5295.000 5345.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.883	MHz	Information
T1 99%	5250.000000	--	5311.5584	MHz	PASS since U-NII-1 is supported
T2 99%	--	5350.000000	5328.4416	MHz	PASS



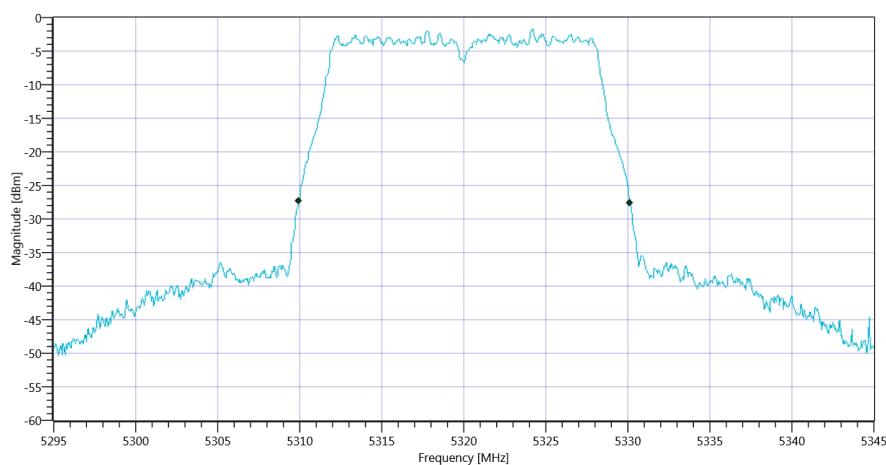
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 99PCT_30082019_171302.png



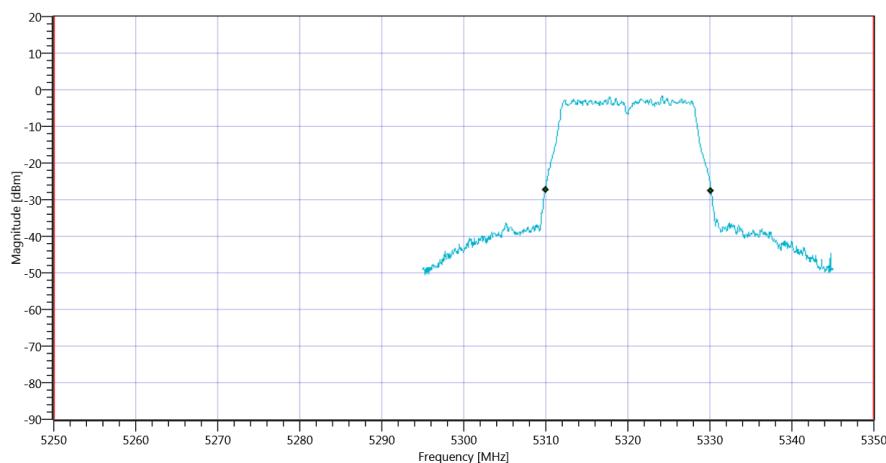
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_30082019_171305.png

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.2	MHz	Information
T1 26dB	5250.000000	--	5309.9500	MHz	PASS since U-NII-1 is supported
T2 26dB	--	5350.000000	5330.1500	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 26dB_30082019_171308.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_30082019_171311.png

TEST FINISHED

General Verdict

30.08.2019 17:13:11 / RT: 27 s

PASS

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

Test References

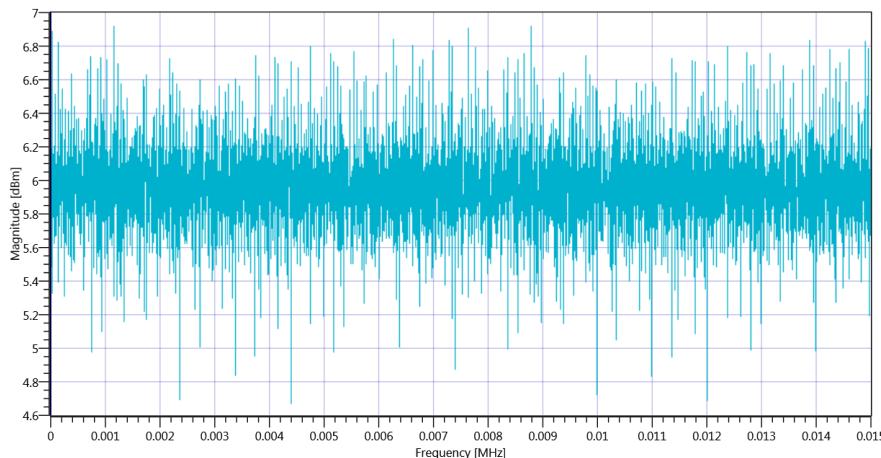
TC Start	30.08.2019 17:14:51
System Version	1.0.0.20
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
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-30,1321.3008K30/103170,3.40

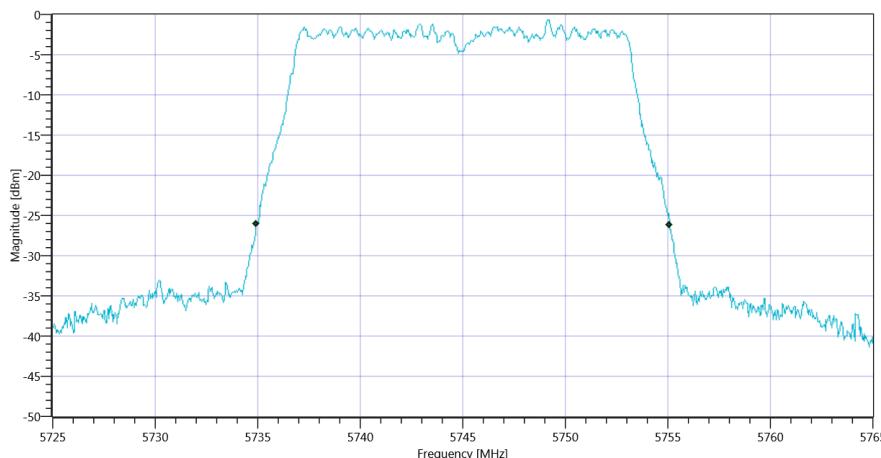
Test at TX 5745 MHz

RESULT: Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5745 MHz - Duty Cycle_30082019_171505.png

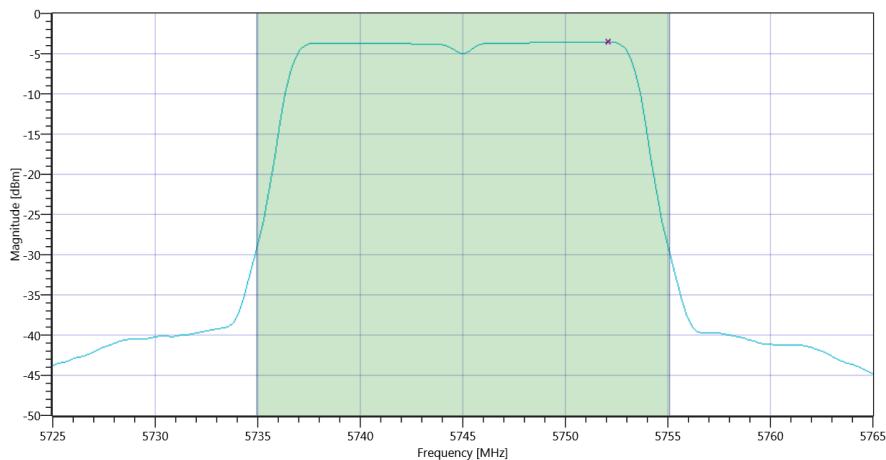
RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.16	MHz	Information
T1 26dB	--	--	5734.9200	MHz	Information
T2 26dB	--	--	5755.0800	MHz	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_30082019_171512.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB] InpAtt [dB]
Start [MHz]	Stop [MHz]
RBW [MHz]	VBW [MHz]
Detector	TraceMode
Sweep: Time [ms]	Count Points per Section Type

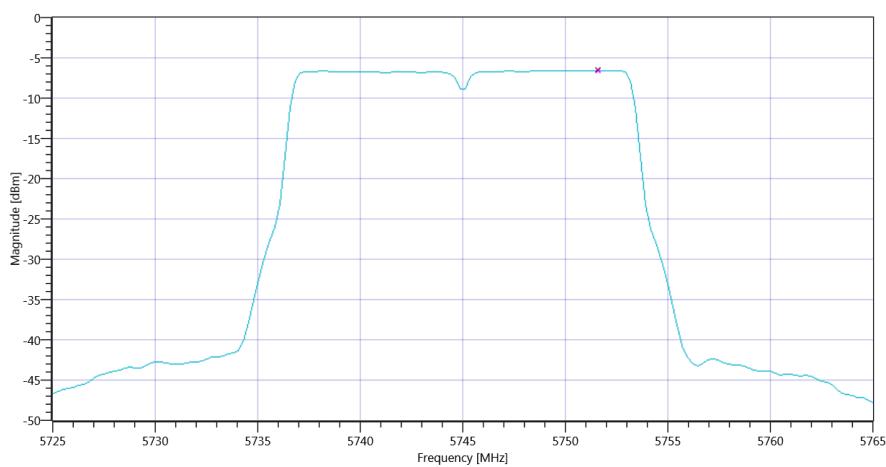
RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	8.16	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	30	8.16	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	24.04	8.16	dBm	not applicable



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_30082019_171525.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB]
InpAtt [dB]	16.11 12.53 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
8000	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	--	--	-6.57	dBm/0.5MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	30	-3.56	dBm/0.5MHz	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_30082019_171537.png

TEST FINISHED

General Verdict

30.08.2019 17:15:37 / RT: 45 s

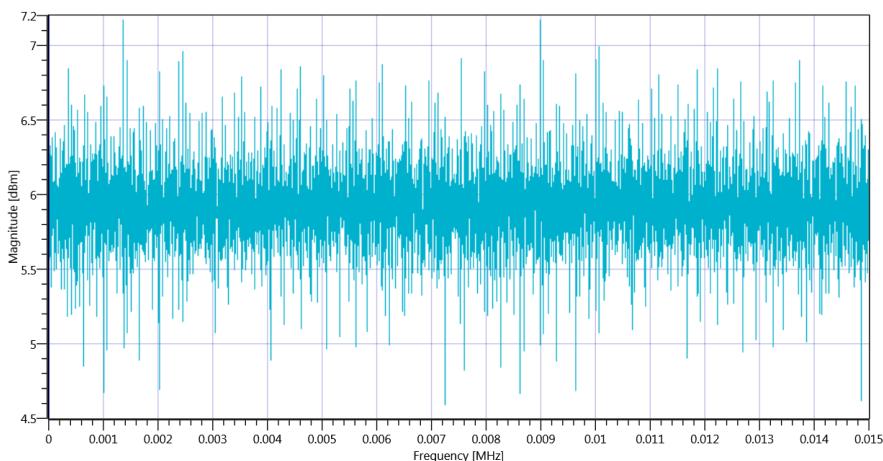
PASS

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

Test References	
TC Start	30.08.2019 17:15:41
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

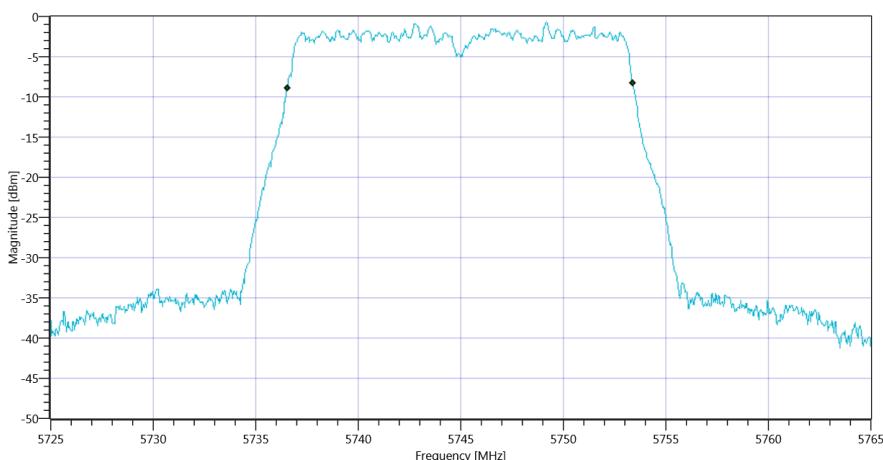
Test at TX 5745 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5745 MHz - Duty Cycle_30082019_171555.png

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.823	MHz	Information
T1 99%	--	--	5736.5684	MHz	Information
T2 99%	--	--	5753.3916	MHz	Information

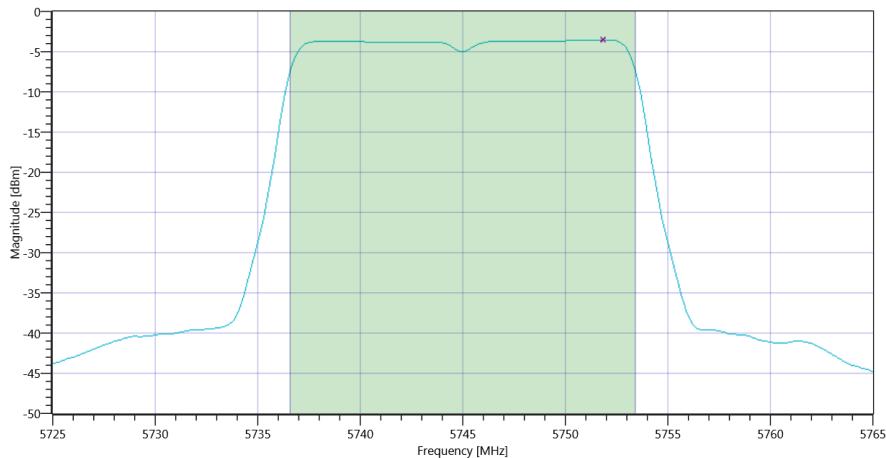


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_30082019_171602.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.28 12.53 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	8000 1 160 SWE

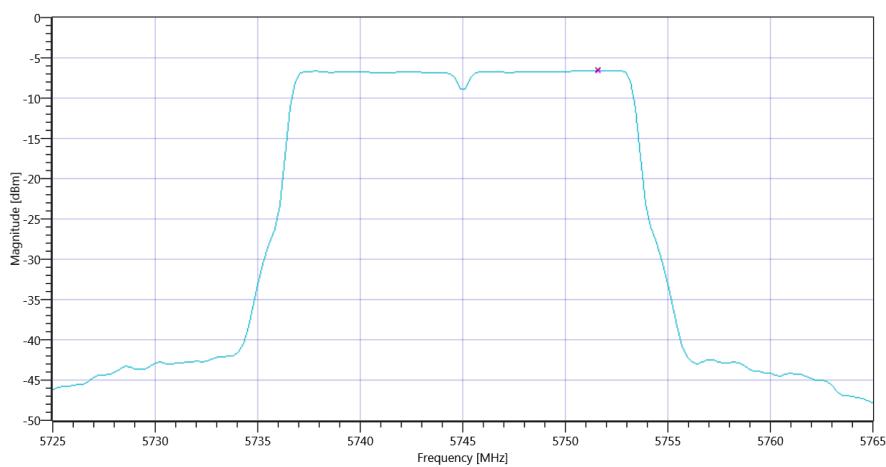
RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	8.06	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	30	8.06	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	23.26	8.06	dBm	not applicable



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_30082019_171615.png

READ SA SETTINGS:			
RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	16.28 12.53 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	8000 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	--	--	-6.55	dBm/0.5MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	30	-3.57	dBm/0.5MHz	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_30082019_171628.png

TEST FINISHED

General Verdict

30.08.2019 17:16:28 / RT: 46 s

PASS

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

Test References	
TC Start	30.08.2019 17:16:32
System Version	1.0.0.20
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-30,1321.3008K30/103170,3.40

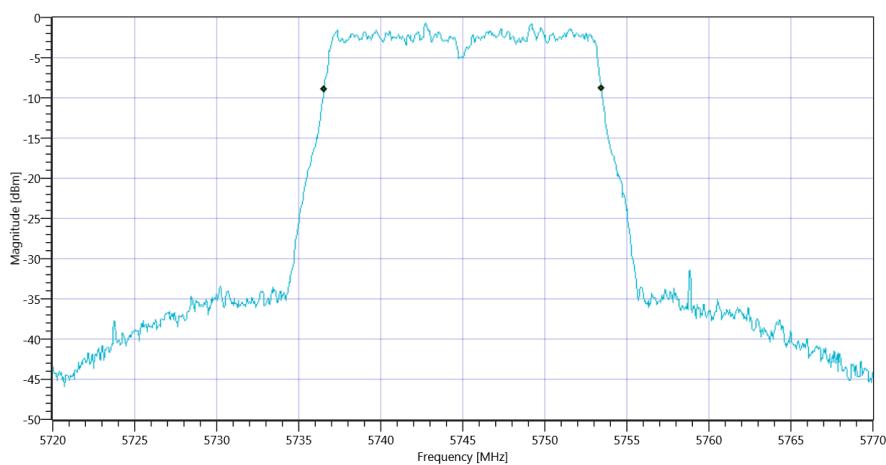
Test at TX 5745 MHz

READ SA SETTINGS:

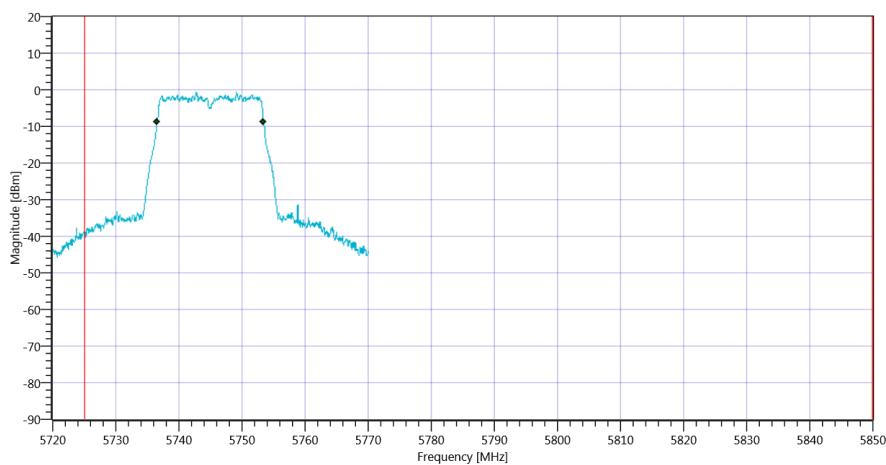
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.95 12.53 15
Start [MHz] Stop [MHz]	5720.000 5770.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.883	MHz	Information
T1 99%	5725.000000	--	5736.5584	MHz	PASS
T2 99%	--	5850.000000	5753.4416	MHz	PASS



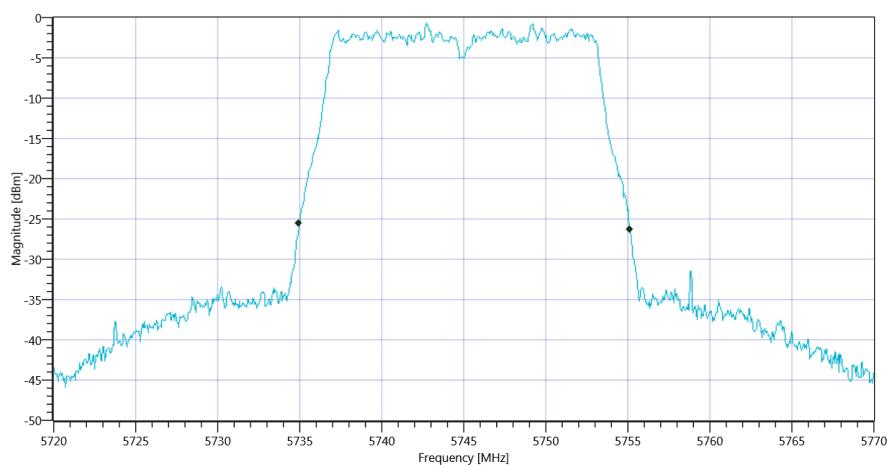
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-3 99PCT_30082019_171650.png



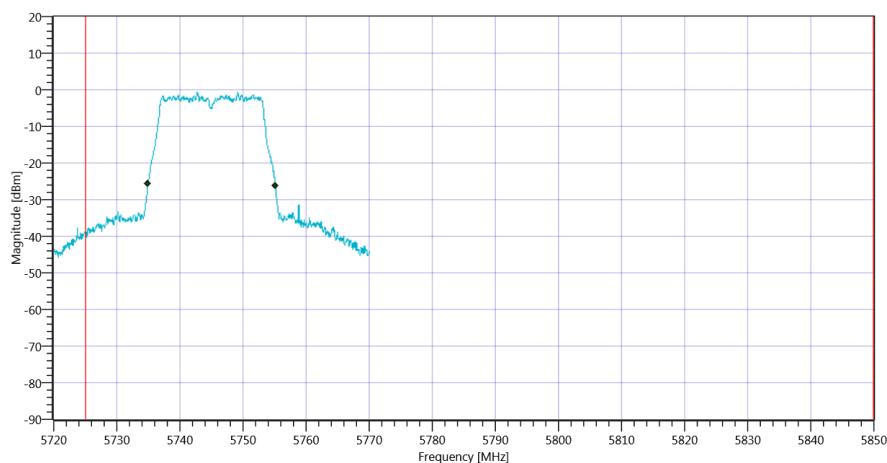
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-3_30082019_171653.png

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.2	MHz	Information
T1 26dB	5725.000000	--	5734.9500	MHz	PASS
T2 26dB	--	5850.000000	5755.1500	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-3 26dB_30082019_171656.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-3_30082019_171659.png

TEST FINISHED

General Verdict

30.08.2019 17:16:59 / RT: 27 s

PASS

22. FCC Part 15.407 & ISED Minimum Emission BW ~ WLAN5Gx a mode U-NII-3

Test References

TC Start	30.08.2019 17:17:03
System Version	1.0.0.20
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, C.2.
Class / TC Version / TC ID	TC_VM_FCC15407_Min_Emission_BW_V01 Version: 0.0.1 TCID_FCC15407_2
My Description	FCC 15.407 Min Emission Bandwidth - 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-30,1321.3008K30/103170,3.40

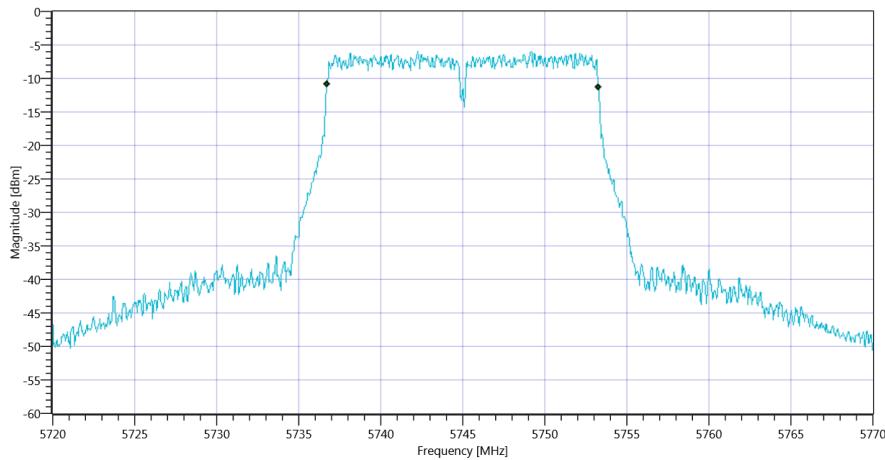
Test at TX 5745 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.22 12.53 20
Start [MHz] Stop [MHz]	5720.000 5770.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT: TC_VM_FCC15407_Min_Emission_BW_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth (6dB)	0.500	--	16.6	MHz	PASS



Plot_FCC Part 15.407 & ISED Minimum Emission BW ~ WLAN5Gx a mode U-NII-3_30082019_171740.png

TEST FINISHED

General Verdict

30.08.2019 17:17:40 / RT: 36 s

PASS

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

Test References

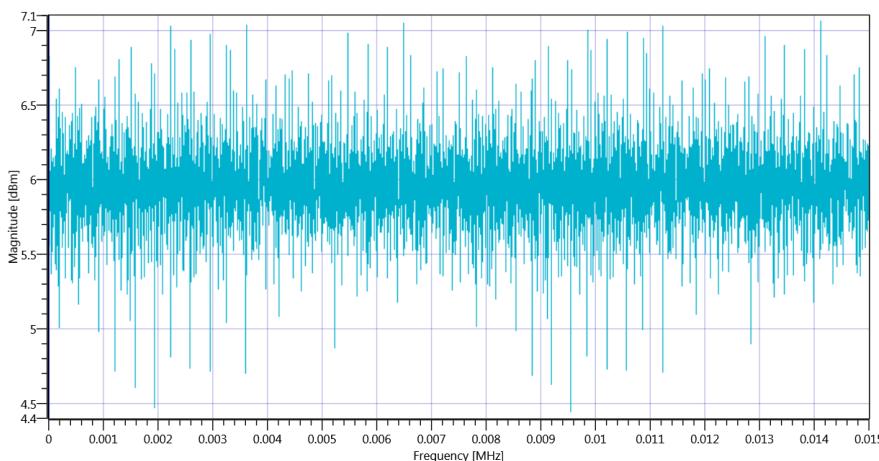
TC Start	30.08.2019 17:18:46
System Version	1.0.0.20
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
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	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.40

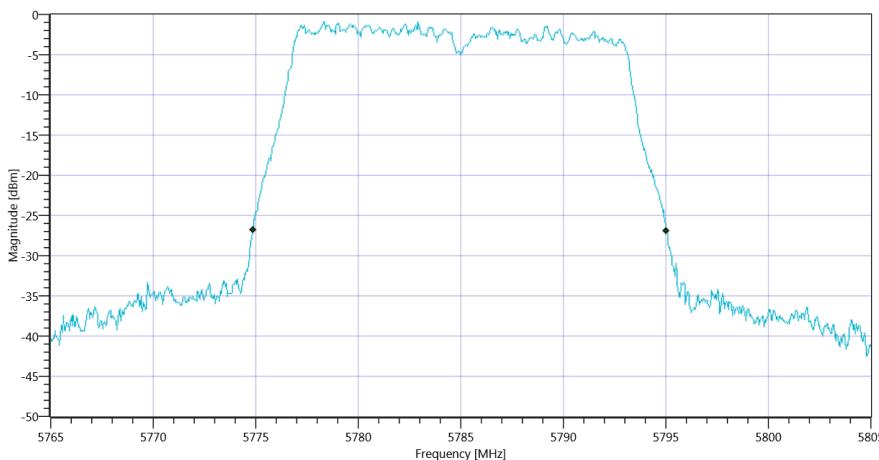
Test at TX 5785 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5785 MHz - Duty Cycle_30082019_171900.png

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.16	MHz	Information
T1 26dB	--	--	5774.8800	MHz	Information
T2 26dB	--	--	5795.0400	MHz	Information

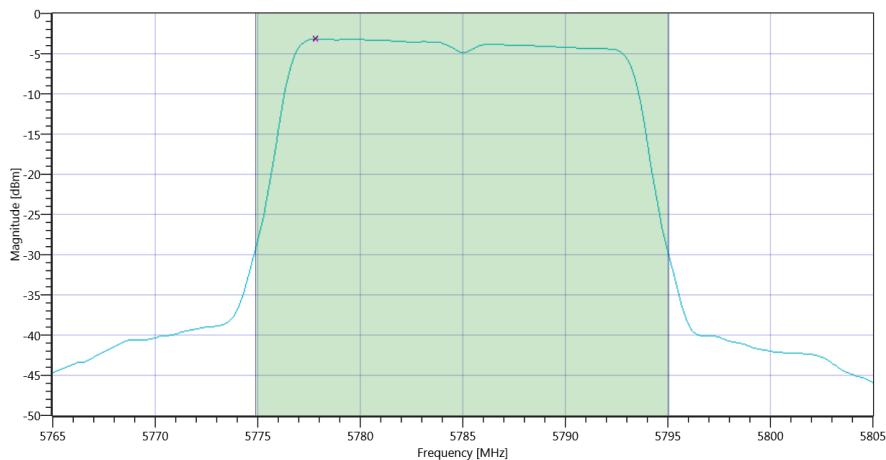


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_30082019_171907.png

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.58 12.33 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	8000 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	--	--	8.13	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	30	8.13	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	24.04	8.13	dBm	not applicable



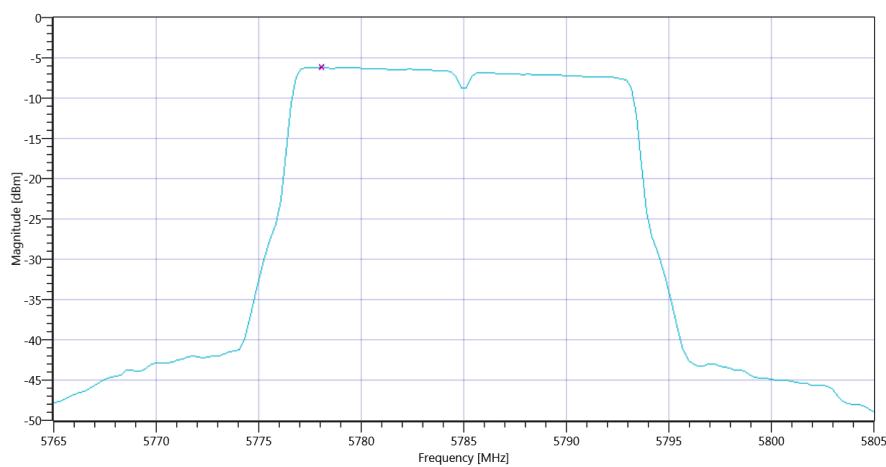
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_30082019_171920.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.58 12.33 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	8000 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	--	--	-6.18	dBm/0.5MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	30	-3.21	dBm/0.5MHz	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_30082019_171932.png

TEST FINISHED

General Verdict

30.08.2019 17:19:32 / RT: 46 s

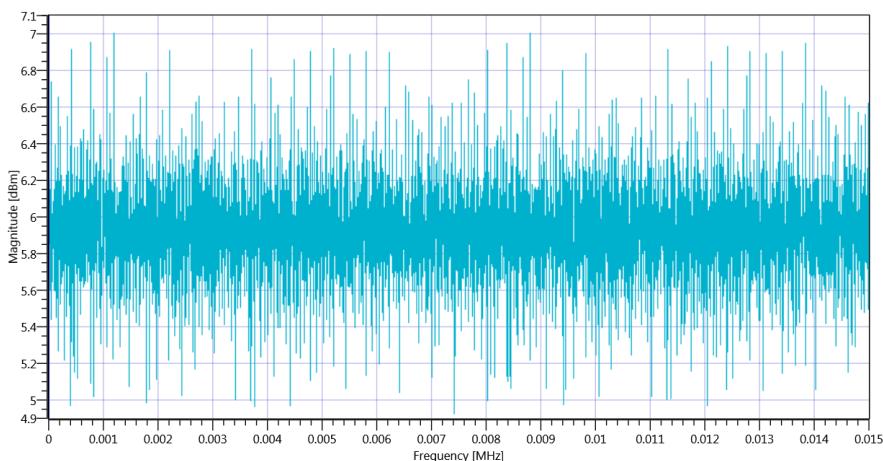
PASS

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

Test References	
TC Start	30.08.2019 17:19:36
System Version	1.0.0.20
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	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.40

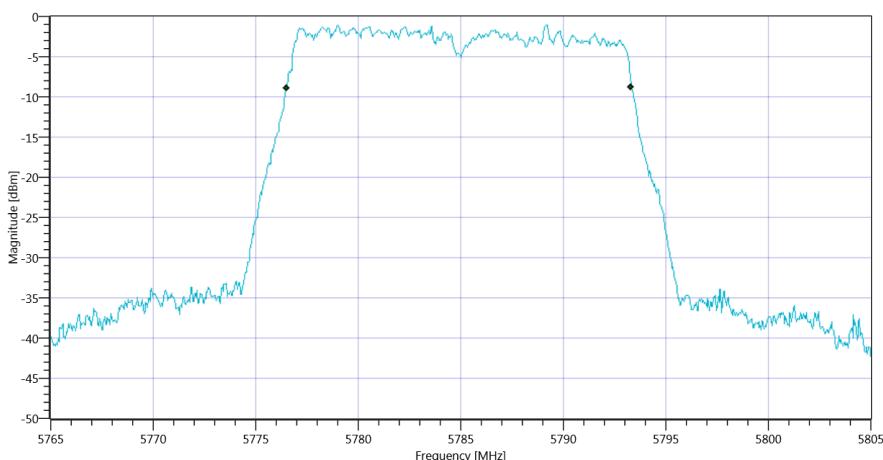
Test at TX 5785 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5785 MHz - Duty Cycle_30082019_171950.png

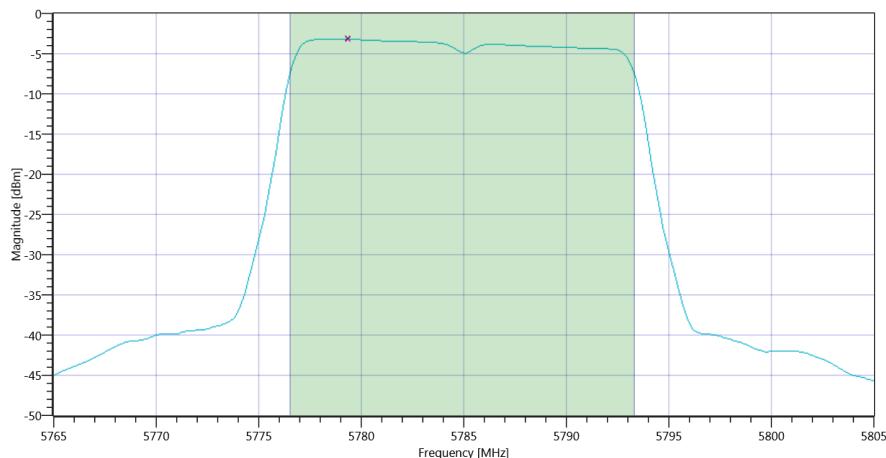
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.823	MHz	Information
T1 99%	--	--	5776.4885	MHz	Information
T2 99%	--	--	5793.3117	MHz	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_30082019_171957.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB]
InpAtt [dB]	16.19 12.33 20
Start [MHz]	Stop [MHz]
5765.000	5805.000
RBW [MHz]	VBW [MHz]
1.000000	3.000000
Detector	TraceMode
RMS	MAXH
Sweep: Time [ms]	Count Points per Section Type
8000	1 160 SWE

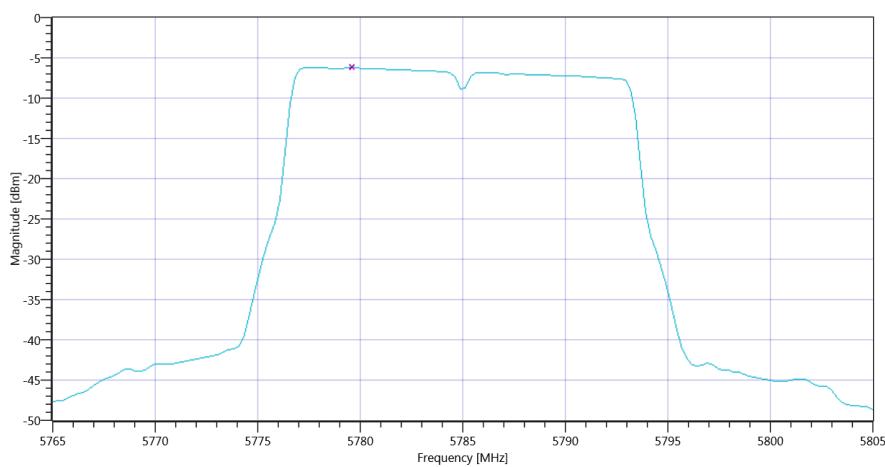
RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	8.04	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	30	8.04	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	23.26	8.04	dBm	not applicable



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_30082019_172010.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB] InpAtt [dB]
Start [MHz]	Stop [MHz]
RBW [MHz]	VBW [MHz]
Detector TraceMode	RMS MAXH
Sweep: Time [ms]	Count Points per Section Type
	8000 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	--	--	-6.22	dBm/0.5MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	30	-3.21	dBm/0.5MHz	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_30082019_172022.png

TEST FINISHED

General Verdict

30.08.2019 17:20:22 / RT: 46 s

PASS

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

Test References	
TC Start	30.08.2019 17:20:26
System Version	1.0.0.20
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	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.40

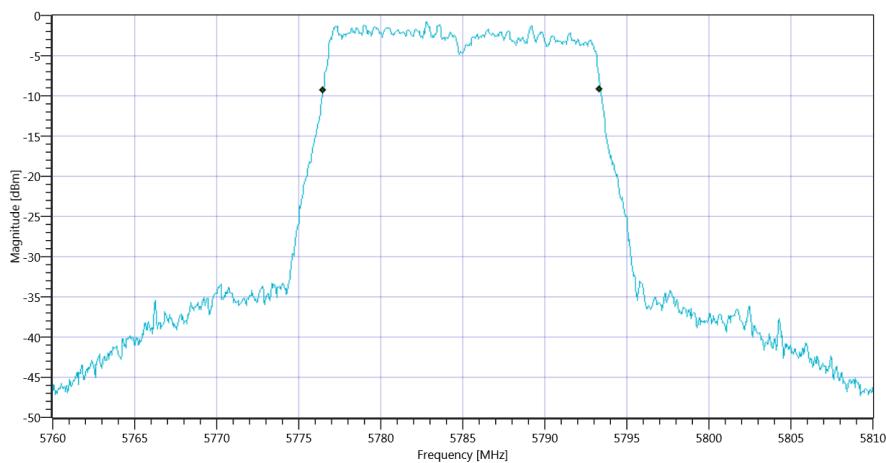
Test at TX 5785 MHz

READ SA SETTINGS:

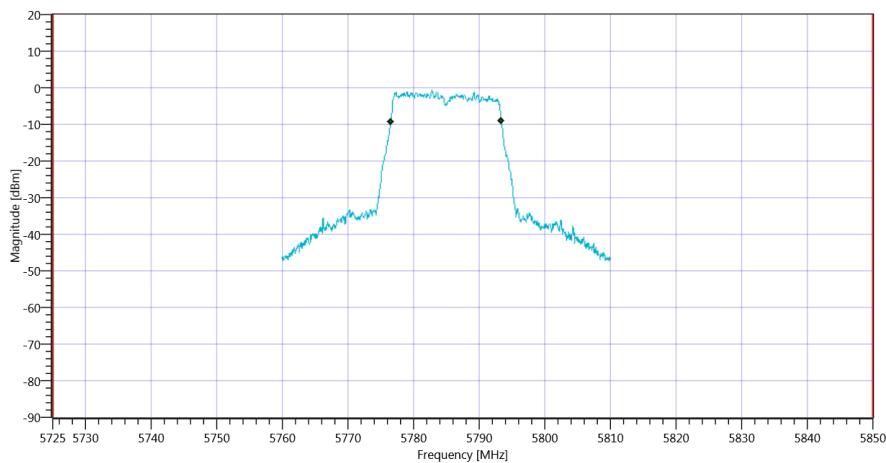
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.16 12.33 15
Start [MHz] Stop [MHz]	5760.000 5810.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.833	MHz	Information
T1 99%	5725.000000	--	5776.5085	MHz	PASS
T2 99%	--	5850.000000	5793.3417	MHz	PASS



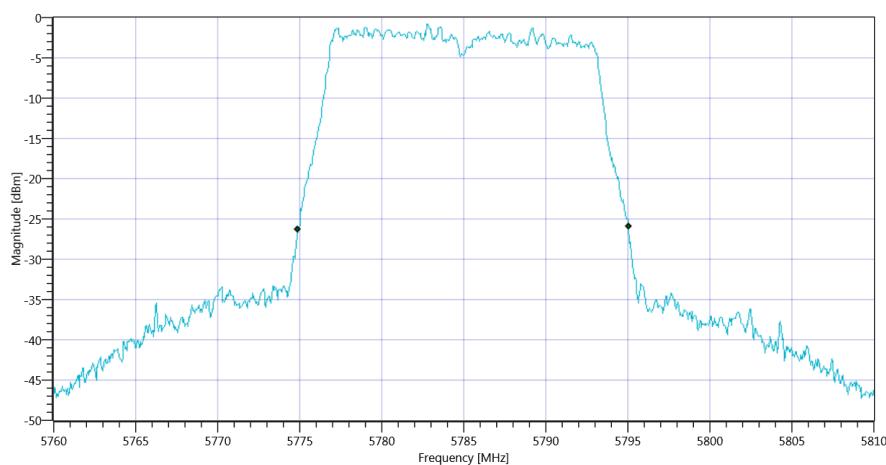
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-3 99PCT_30082019_172045.png



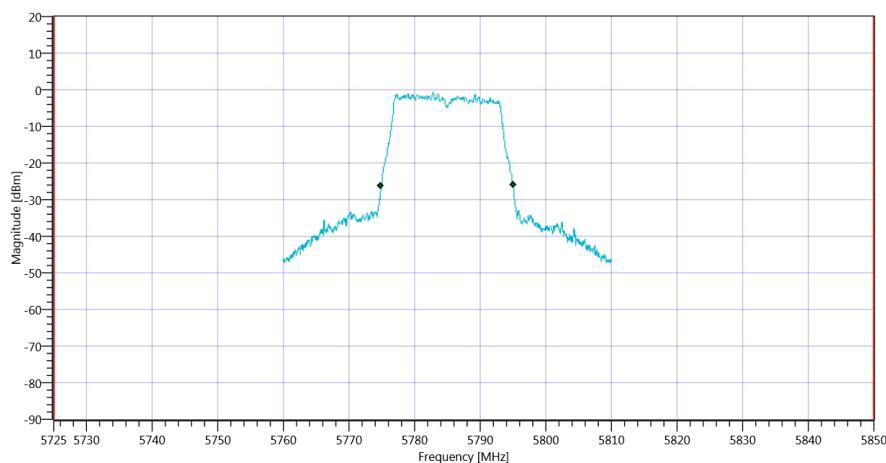
Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-3_30082019_172047.png

RESULT: TC_VM_FCC15407_Bandwidths_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	--	--	20.15	MHz	Information
T1 26dB	5725.000000	--	5774.9000	MHz	PASS
T2 26dB	--	5850.000000	5795.0500	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-3 26dB_30082019_172051.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-3_30082019_172054.png

TEST FINISHED

General Verdict

30.08.2019 17:20:54 / RT: 27 s

PASS

26. FCC Part 15.407 & ISED Minimum Emission BW ~ WLAN5Gx a mode U-NII-3

Test References

TC Start	30.08.2019 17:20:58
System Version	1.0.0.20
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, C.2.
Class / TC Version / TC ID	TC_VM_FCC15407_Min_Emission_BW_V01 Version: 0.0.1 TCID_FCC15407_2
My Description	FCC 15.407 Min Emission Bandwidth - 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	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.40

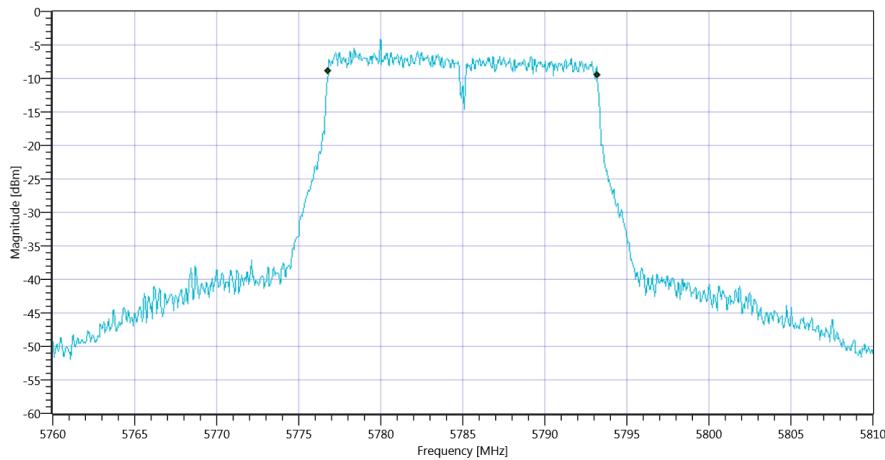
Test at TX 5785 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.53 12.33 20
Start [MHz] Stop [MHz]	5760.000 5810.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT: TC_VM_FCC15407_Min_Emission_BW_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth (6dB)	0.500	--	16.4	MHz	PASS



Plot_FCC Part 15.407 & ISED Minimum Emission BW ~ WLAN5Gx a mode U-NII-3_30082019_172139.png

TEST FINISHED

General Verdict

30.08.2019 17:21:39 / RT: 40 s

PASS

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

Test References

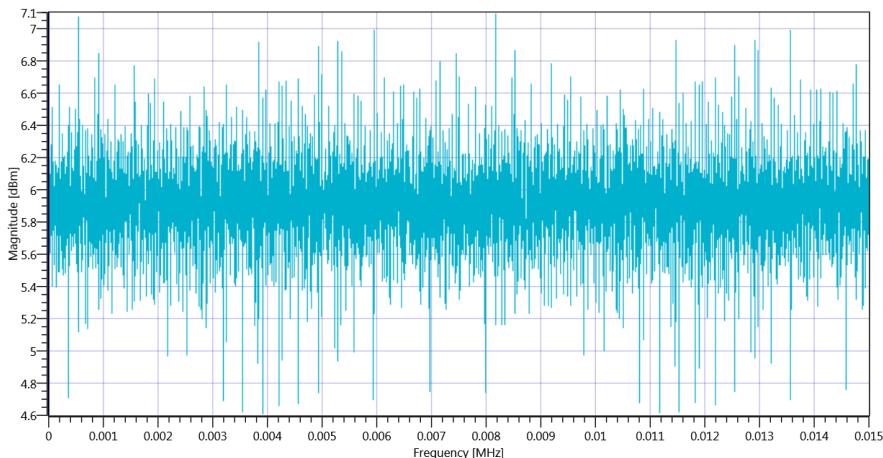
TC Start	30.08.2019 17:22:00
System Version	1.0.0.20
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version / TC ID	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1 TCID_FCC15407_3
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
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	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.40

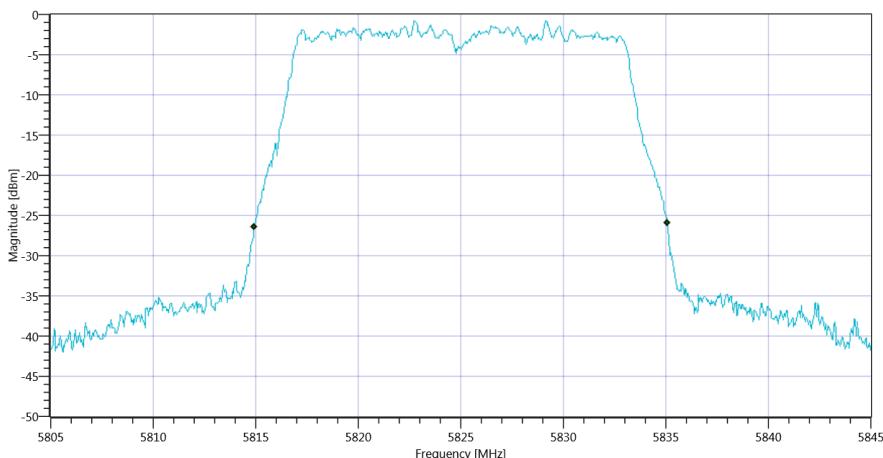
Test at TX 5825 MHz

RESULT: Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5825 MHz - Duty Cycle_30082019_172214.png

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	--	--	5814.9200	MHz	Information
T2 26dB	--	--	5835.0800	MHz	Information

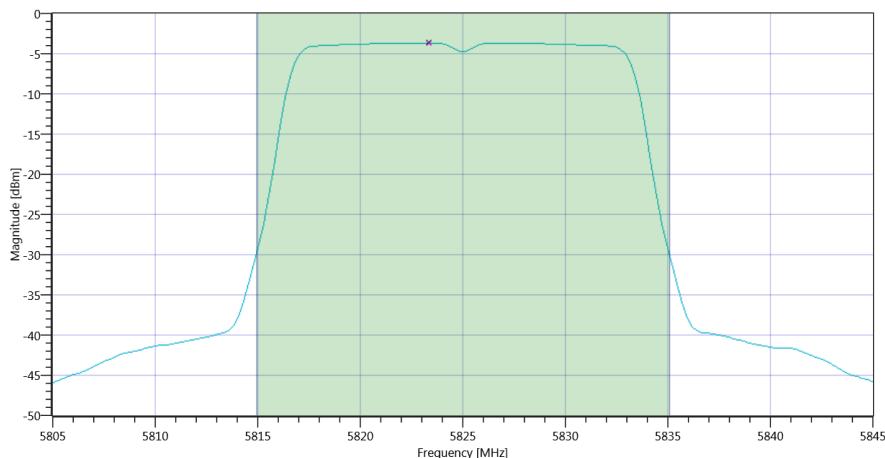


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_30082019_172221.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB] InpAtt [dB]
Start [MHz]	Stop [MHz]
RBW [MHz]	VBW [MHz]
Detector	TraceMode
Sweep: Time [ms]	Count Points per Section Type

RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	8.04	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	30	8.04	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	24.04	8.04	dBm	not applicable



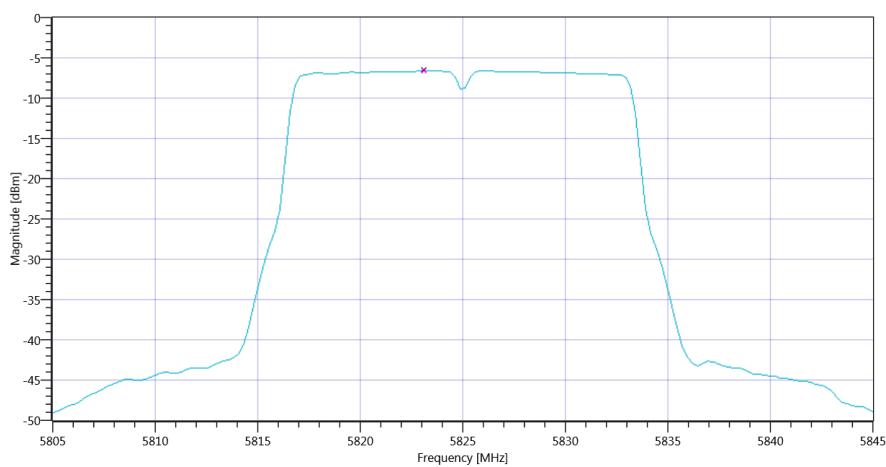
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_30082019_172234.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.48 12.16 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	8000 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	--	--	-6.61	dBm/0.5MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	30	-3.66	dBm/0.5MHz	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_30082019_172246.png

TEST FINISHED

General Verdict

30.08.2019 17:22:47 / RT: 46 s

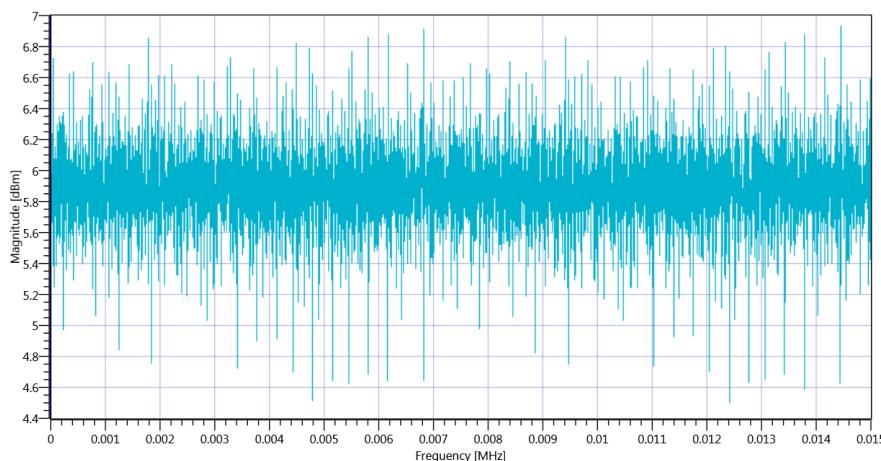
PASS

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

Test References	
TC Start	30.08.2019 17:22:51
System Version	1.0.0.20
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	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.40

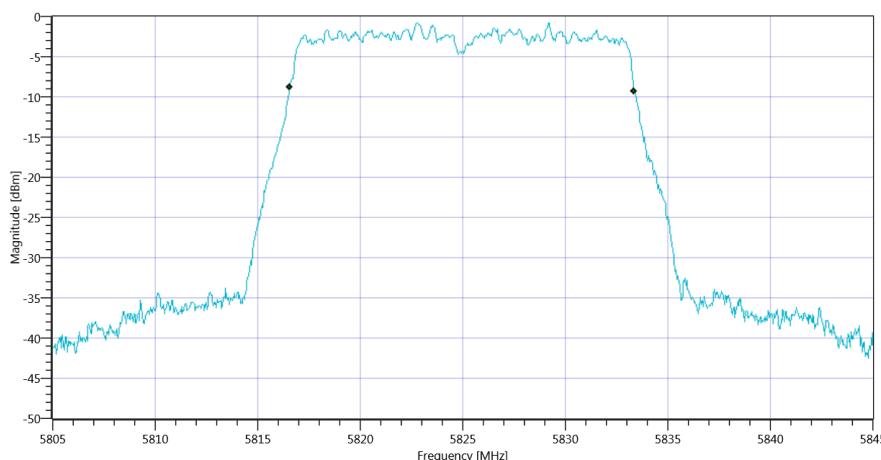
Test at TX 5825 MHz

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	Information
Duty Cycle max	--	--	0	dB	Information
Duty Cycle (Burst Ratio) min	--	--	1	--	Information
Duty Cycle min	--	--	0	dB	Information



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5825 MHz - Duty Cycle_30082019_172304.png

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	16.783	MHz	Information
T1 99%	--	--	5816.5684	MHz	Information
T2 99%	--	--	5833.3516	MHz	Information

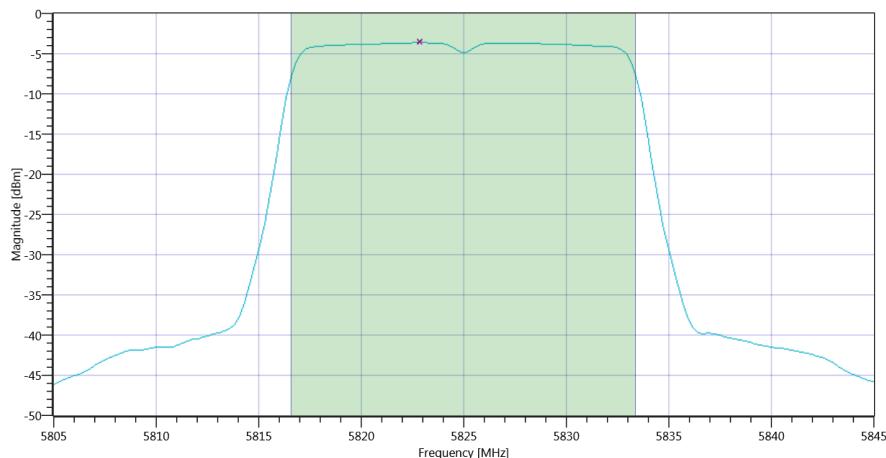


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_30082019_172312.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.18 12.16 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	8000 1 160 SWE

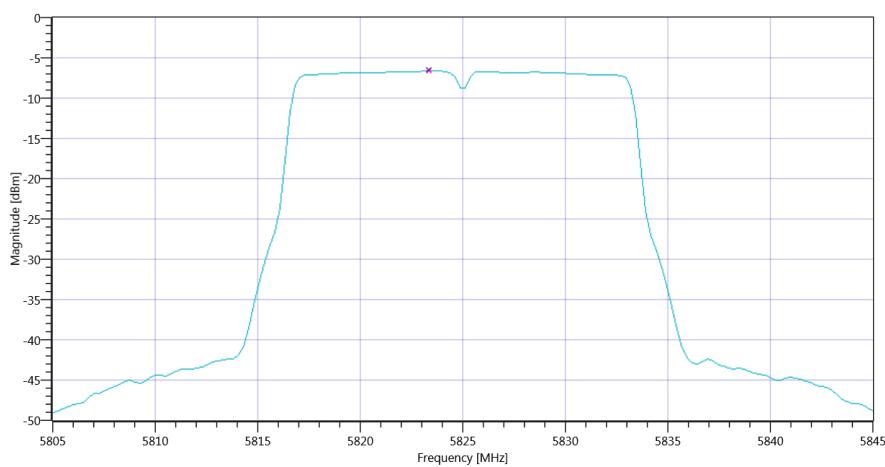
RESULT: TC_VM_FCC15407_Max_Output_Power_and_PSD_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	--	--	7.94	dBm	Information
Duty Cycle Correction	--	--	0	dB	Information
Limit absolute					
Max Output Power DC corrected	--	30	7.94	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	--	23.25	7.94	dBm	not applicable



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_30082019_172324.png

READ SA SETTINGS:	
RefLevel [dBm]	RefLevelOffset [dB]
InpAtt [dB]	16.18 12.16 20
Start [MHz]	Stop [MHz]
5805.000	5845.000
RBW [MHz]	VBW [MHz]
0.500000	3.000000
Detector	TraceMode
RMS	MAXH
Sweep: Time [ms]	Count Points per Section Type
8000	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	--	--	-6.66	dBm/0.5MHz	Information
Duty Cycle Correction	--	--	0	dB	Information
Power Spectral Density DC corrected	--	30	-3.65	dBm/0.5MHz	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_30082019_172337.png

TEST FINISHED

General Verdict

30.08.2019 17:23:37 / RT: 46 s

PASS

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

Test References	
TC Start	30.08.2019 17:23:41
System Version	1.0.0.20
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	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.40