FCC and ISED Test Report

Dyson Technology Limited
Robot Vacuum Cleaner, Model: RB03

In accordance with FCC 47 CFR Part 15E, ISED RSS-247 and ISED RSS-GEN (5 GHz WLAN)

Prepared for: Dyson Technology Limited
Tetbury Hill
Malmesbury
SN16 0RP
United Kingdom

FCC ID: QVHRB03002 IC: 7986A-RB03002

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Document 75951525-03 Issue 01

SIGNATURE			
NAME	**JOB TITLE**	**RESPONSIBLE FOR**	**ISSUE DATE**
Steve Marshall	Senior Engineer	Authorised Signatory	16 May 2023

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15E, ISED RSS-247 and ISED RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Graeme Lawler	16 May 2023	
Testing	George Porter	16 May 2023	
Testing	Paul Dickson	16 May 2023	
Testing	Neil Rousell	16 May 2023	

FCC Accreditation
90987 Octagon House, Fareham Test Laboratory

ISED Accreditation
12669A Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15E: 2020, ISED RSS-247: Issue 2 (2017-02) and ISED RSS-GEN: Issue 5 A2 (2021-02) for the tests detailed in section 1.3.

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Contents

1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	16-May-2023

Table 1

1.2 Introduction

Applicant	Dyson Technology Limited
Manufacturer	Dyson Technology Limited
Model Number(s)	RB03
Serial Number(s)	H8U-JP-FJN0002X, HLP2 board and H9C-UK-PCA0009A
Hardware Version(s)	OR1.5
HLP Version	2
PCBA Version	289439-01
Software Version(s)	RB03ED.01.00.002.0012
Number of Samples Tested	3
Test Specification/Issue/Date	FCC 47 CFR Part 15E: 2020 ISED RSS-247: Issue 2 (2017-02) ISED RSS-GEN: Issue 5 A2 (2021-02)
Order Number Date	6000112313 25-February-2021
Date of Receipt of EUT	15-April-2021, 16-April-2021 and 28-September-2021
Start of Test	26-April-2021
Finish of Test	25-October-2021
Name of Engineer(s)	Graeme Lawler, George Porter, Paul Dickson and Neil Rousell
Related Document(s)	ANSI C63.10 (2013) KDB 662911 D01 v02r01 KDB 905462 D02 v02

1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15E, ISED RSS-247 and ISED RSS-GEN is shown below.

Section	Specification Clause			Test Description	Result	Comments/Base Standard
	Part 15E	RSS-247	RSS-GEN			
Configuration and Mode: 5 GHz WLAN						
-	15.203	-	-	Antenna Requirement	N/T	The device complies with the provisions of this section, as it uses permanently attached integral antennas.
2.1	15.205	-	8.10	Restricted Band Edges	Pass	
2.2	15.207	-	8.8	AC Power Line Conducted Emissions	Pass	
2.3	15.407 (a)	6.2	-	Maximum Conducted Output Power	Pass	
2.4	15.407 (a)	6.2	-	Maximum Conducted Power Spectral Density	Pass	
2.5	15.407 (a)	6.2	-	Emission Bandwidth	Pass	
2.6	15.407 (b)	6.2	-	Authorised Band Edges	Pass	
2.7	15.407 (b) and 15.205	6.2	6.13 and 8.9	Spurious Radiated Emissions	Pass	
2.8	15.407 (h)(2)(iii)(iv)	6.3.2(c)(d)(e)	-	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period	Pass	

Table 2

1.4 Application Form

Equipment Description

Technical Description: *(Please provide a brief description of the intended use of the equipment including the technologies the product supports)*	Robotic vacuum cleaner with 2.4GHz, 5GHz Wi-Fi and Bluetooth Low Energy wireless technologies
Manufacturer:	Dyson Technology Ltd
Model:	RB03
Part Number:	RB03
Hardware Version:	OR1.5
Software Version:	RB03ED.01.00.002.0012
FCC ID of the product under test – see guidance here	QVHRB03002
IC ID of the product under test – see guidance here	7986A-RB03002

Table 3

Intentional Radiators

Technology	BLE	2.4 GHz	5 GHz			
Frequency Range (MHz to MHz)	2400 MHz – 2483.5 MHz	2400 MHz – 2483.5 MHz	5150 MHz to 5850 MHz			
Conducted Declared Output Power (dBm)	Refer to Supplied RF Power Tables					
Antenna Gain (dBi)	4.1	4.1	6.3			
Supported Bandwidth(s) (MHz) (e.g 1 MHz, 20 MHz, 40 MHz)	2 MHz	20/40 MHz	20/40/80 MHz			
Modulation Scheme(s) (e.g GFSK, QPSK etc)	GFSK	DQPSK, DBPSK, DSSS, CCK and OFDM	OFDM			
ITU Emission Designator (see guidance here) (not mandatory for Part 15 devices)	N/A	N/A	N/A			
Bottom Frequency (MHz)	2400 MHz	2400 MHz	5180 MHz			
Middle Frequency (MHz)						
Top Frequency (MHz)	2483.5 MHz	2483.5 MHz	5825 MHz			

Table 4

Un-intentional Radiators

Highest frequency generated or used in the device or on which the device operates or tunes	5850 MHz
Lowest frequency generated or used in the device or on which the device operates or tunes	30 MHz
Class A Digital Device (Use in commercial, industrial or business environment) ☐ Class B Digital Device (Use in residential environment only) ☒	

Table 5

AC Power Source

AC supply frequency:	50/60	Hz
Voltage	100 - 240	V
Max current:	2.4	A
Single Phase ☒ Three Phase ☐		

Table 6

DC Power Source

Nominal voltage:		V
Extreme upper voltage:		V
Extreme lower voltage:		V
Max current:		A

Table 7

Battery Power Source

Voltage:	21.6	V
End-point voltage:	15.9	V *(Point at which the battery will terminate)*
Alkaline ☐ Leclanche ☐ Lithium ☒ Nickel Cadmium ☐ Lead Acid* ☐ **(Vehicle regulated)*		
Other ☐ Please detail:		

Table 8

Charging

Can the EUT transmit whilst being charged	Yes ☒ No ☐

Table 9

Temperature

Minimum temperature:	0	°C
Maximum temperature:	60	°C

Table 10

Antenna Characteristics

Antenna connector ☐			State impedance		Ohm
Temporary antenna connector ☐			State impedance		Ohm
Integral antenna ☒	Type:	Patch Antenna	Gain	2.4GHz: 4.1 5GHz: 6.3	dBi
External antenna ☐	Type:		Gain		dBi
For external antenna only: Standard Antenna Jack ☐ If yes, describe how user is prohibited from changing antenna (if not professional installed): Equipment is only ever professionally installed ☐ Non-standard Antenna Jack ☐					

Table 11

Ancillaries (if applicable)

Manufacturer:		Part Number:	
Model:		Country of Origin:	

Table 12

The above information was provided by the applicant.

1.5 Product Information

1.5.1 Technical Description

The EUT is a Robotic vacuum cleaner with 2.4 GHz, 5 GHz Wi-Fi and Bluetooth Low Energy wireless technologies.

1.5.2 Antenna Gain

The manufacturer provided antenna gain values for each operating channel which have been used to calculate EIRP where required:

Band	Chan # (20MHz)	Max Gain (dBi)
Band A (UNII-1)	36	6.15
	40	6.25
	44	6.03
	48	6.04
Band A (UNII-2A)	52	6.23
	56	6.21
	60	6.17
	64	6.04
Band B (UNII-2C/3)	100	5.73
	104	5.83
	108	5.62
	112	5.76
	116	5.81
	120	5.77
	124	5.72
	128	5.46
	132	5.50
	136	5.96
	140	5.90
	144	6.10
Band A (UNII-3)	149	5.79
	153	5.79
	157	5.77
	161	5.74
	165	5.72

Table 13 – Antenna Gain

1.6 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
Model: RB03, Serial Number: H8U-JP-FJN0002X			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: RB03, Serial Number: HLP2 board			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: RB03, Serial Number: H9C-UK-PCA0009A			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 14

1.8 Test Location

TÜV SÜD conducted the following tests at our Fareham Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: 5 GHz WLAN		
Restricted Band Edges	Graeme Lawler	UKAS
AC Power Line Conducted Emissions	Graeme Lawler	UKAS
Maximum Conducted Output Power	George Porter	UKAS
Maximum Conducted Power Spectral Density	George Porter	UKAS
Emission Bandwidth	George Porter	UKAS
Authorised Band Edges	Graeme Lawler	UKAS
Spurious Radiated Emissions	Paul Dickson and Graeme Lawler	UKAS
Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period	Neil Rousell	UKAS

Table 15

Office Address:

TÜV SÜD
Octagon House
Concorde Way
Fareham
Hampshire
PO15 5RL
United Kingdom

2 Test Details

2.1 Restricted Band Edges

2.1.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.205
ISED RSS-GEN, Clause 8.10

2.1.2 Equipment Under Test and Modification State

RB03, S/N: H8U-JP-FJN0002X - Modification State 0

2.1.3 Date of Test

26-April-2021 to 07-June-2021

2.1.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.10.5.

Plots for average measurements were taken in accordance with ANSI C63.10, clause 4.1.4.2.5. These are shown for information purposes and were used to determine the worst-case measurement point. Final average measurements were then taken in accordance with ANSI C63.10, clause 12.7.7.2 to obtain the measurement result recorded in the test results tables.

The following conversion can be applied to convert from dBµV/m to µV/m:
10^(Field Strength in dBµV/m/20).

2.1.5 Environmental Conditions

Ambient Temperature	19.8 - 26.3 °C
Relative Humidity	24.4 - 56.6 %

2.1.6 Test Results

5 GHz WLAN

Mode	Antenna Port	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)	Average Level (dBµV/m)
802.11a - 6 Mbps	(Main + Aux)	5180	5150	65.08	51.04
802.11a - 6 Mbps	(Main + Aux)	5200	5150	69.38	52.90
802.11a - 6 Mbps	(Main + Aux)	5220	5150	67.47	51.77
802.11a - 6 Mbps	(Main + Aux)	5260	5350	69.47	52.59
802.11a - 6 Mbps	(Main + Aux)	5280	5350	71.39	53.19
802.11a - 6 Mbps	(Main + Aux)	5300	5350	70.76	51.81
802.11a - 6 Mbps	(Main + Aux)	5320	5350	67.66	52.92
802.11a - 6 Mbps	(Main + Aux)	5500	5460	73.75	52.30

Table 16 - 802.11a - 6 Mbps, Restricted Band Edge Results

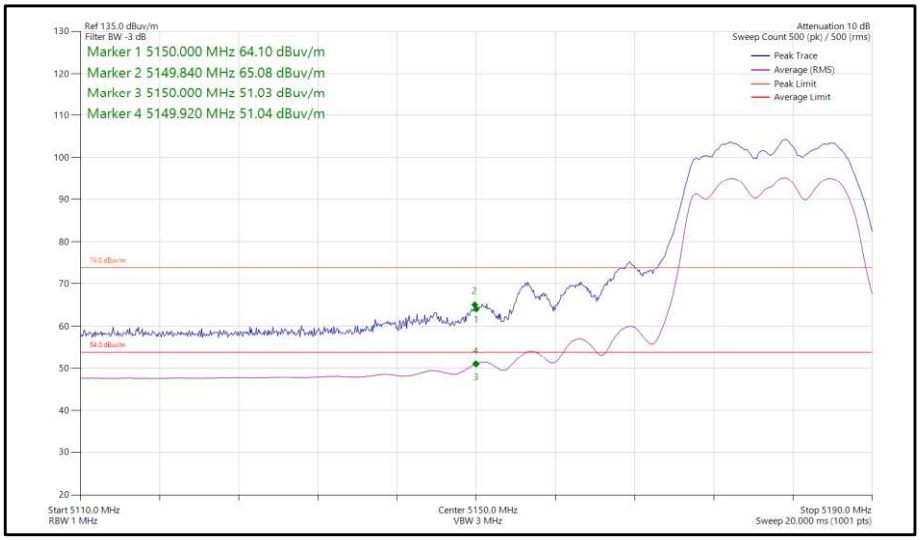

Figure 1 - 802.11a, 5180 MHz (CH36), Band Edge Frequency 5150.0 MHz

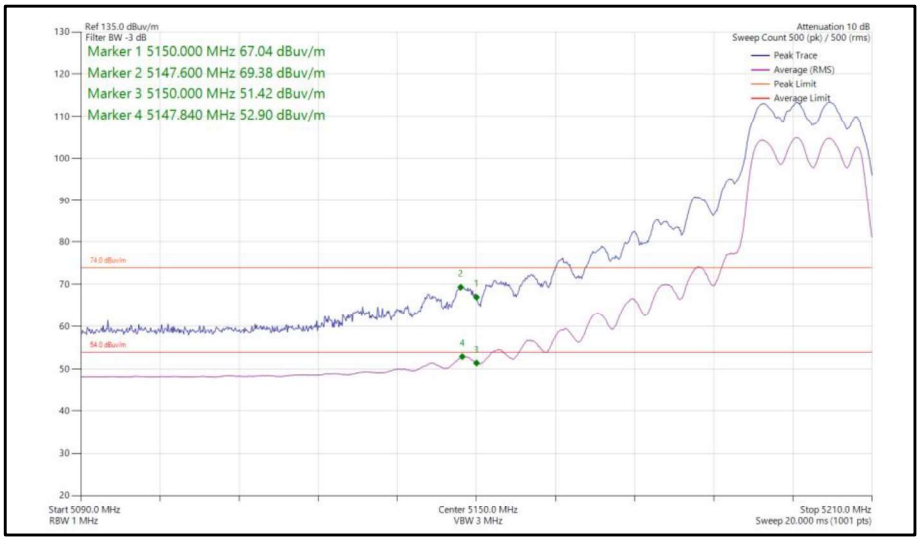

Figure 2 - 802.11a, 5200 MHz (CH40), Band Edge Frequency 5150 MHz

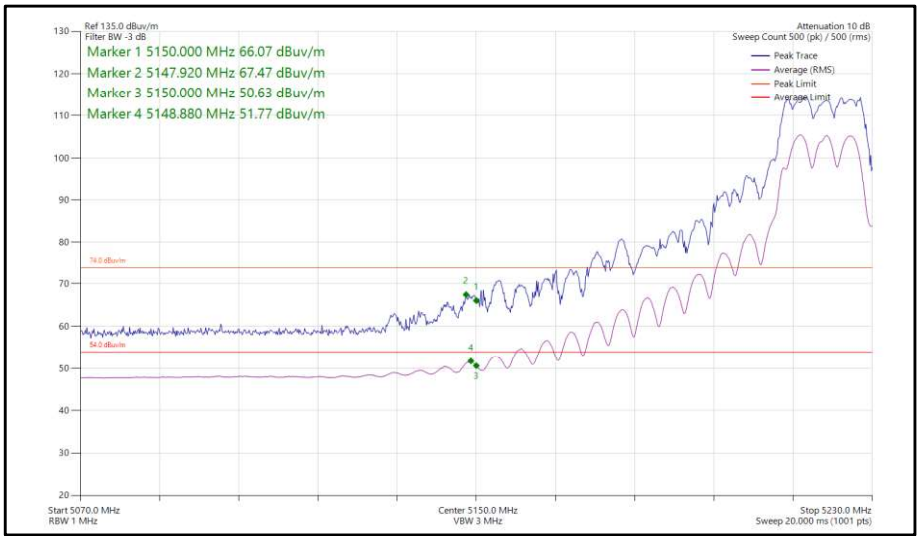

Figure 3 - 802.11a, 5220 MHz (CH44), Band Edge Frequency 5150 MHz

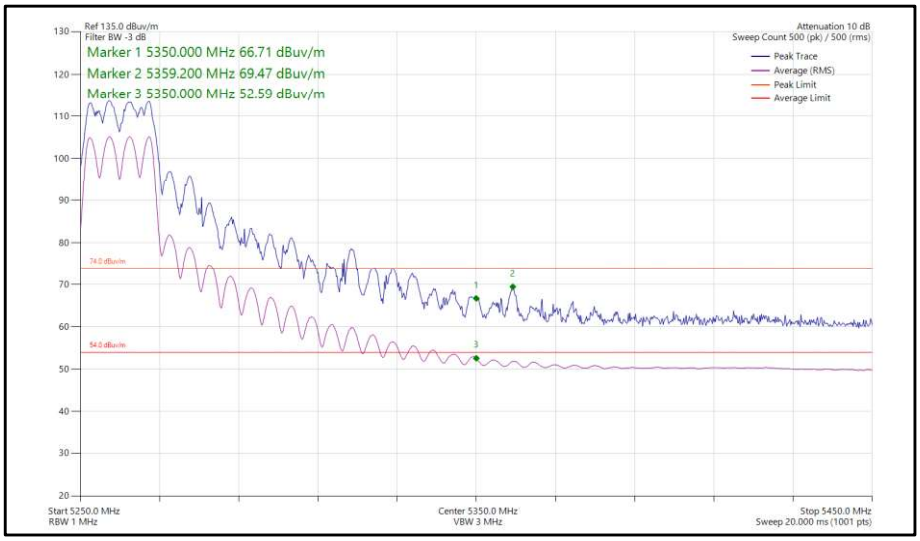

Figure 4 - 802.11a, 5260 MHz (CH52), Band Edge Frequency 5350 MHz

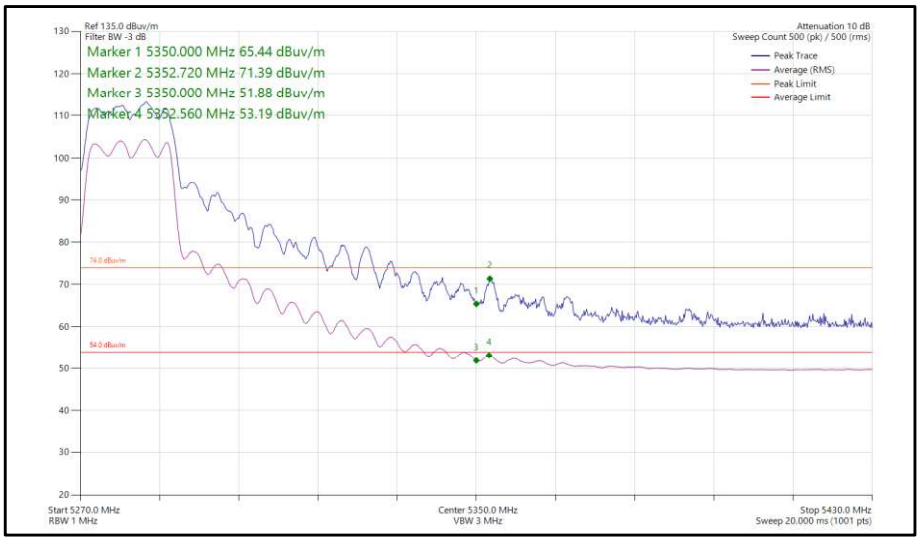

Figure 5 - 802.11a, 5280 MHz (CH56), Band Edge Frequency 5350 MHz

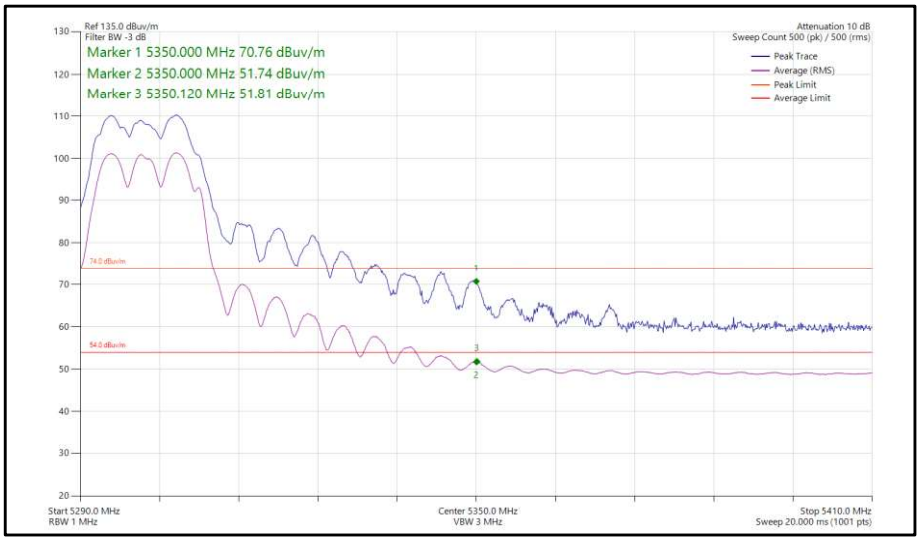

Figure 6 - 802.11a, 5300 MHz (CH60), Band Edge Frequency 5350 MHz

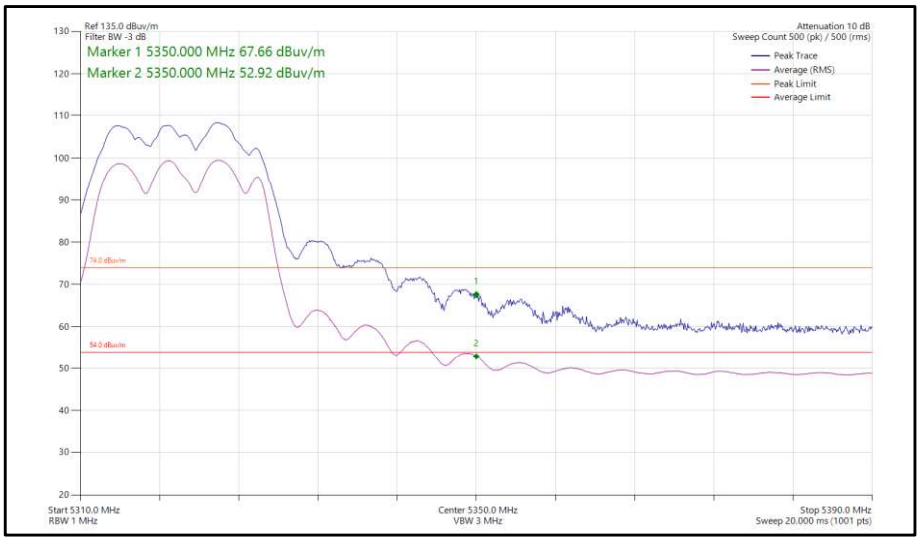

Figure 7 - 802.11a, 5320 MHz (CH64), Band Edge Frequency 5350 MHz

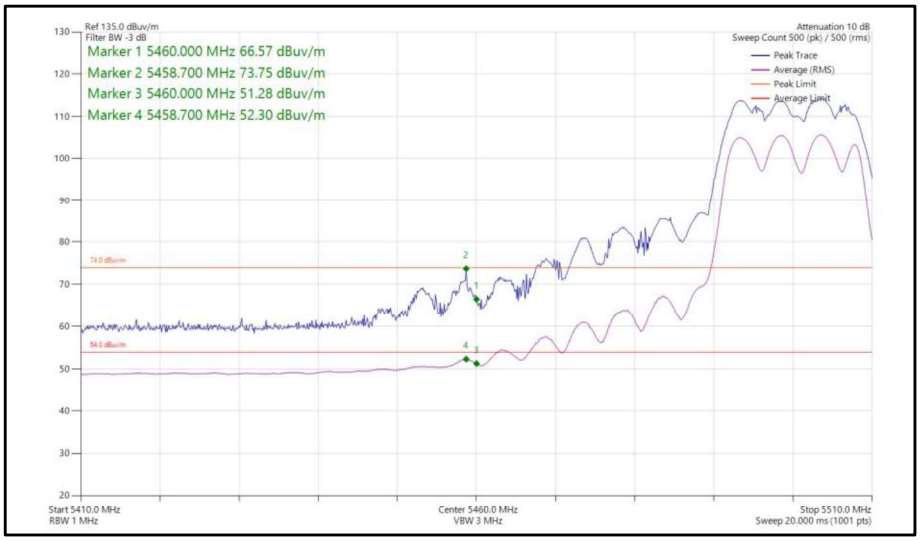

Figure 8 - 802.11a, 5500 MHz (CH100), Band Edge Frequency 5460 MHz

Mode	Antenna Port	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)	Average Level (dBµV/m)
HT20 - MCS0	(Main + Aux)	5180	5150	68.64	52.30
HT20 - MCS0	(Main + Aux)	5200	5150	69.60	52.50
HT20 - MCS0	(Main + Aux)	5220	5150	68.02	51.07
HT20 - MCS0	(Main + Aux)	5260	5350	68.33	52.66
HT20 - MCS0	(Main + Aux)	5280	5350	70.16	51.88
HT20 - MCS0	(Main + Aux)	5300	5350	71.21	52.62
HT20 - MCS0	(Main + Aux)	5320	5350	72.50	53.22
HT20 - MCS0	(Main + Aux)	5500	5460	64.46	50.42

Table 17 - HT20 - MCS0, Restricted Band Edge Results

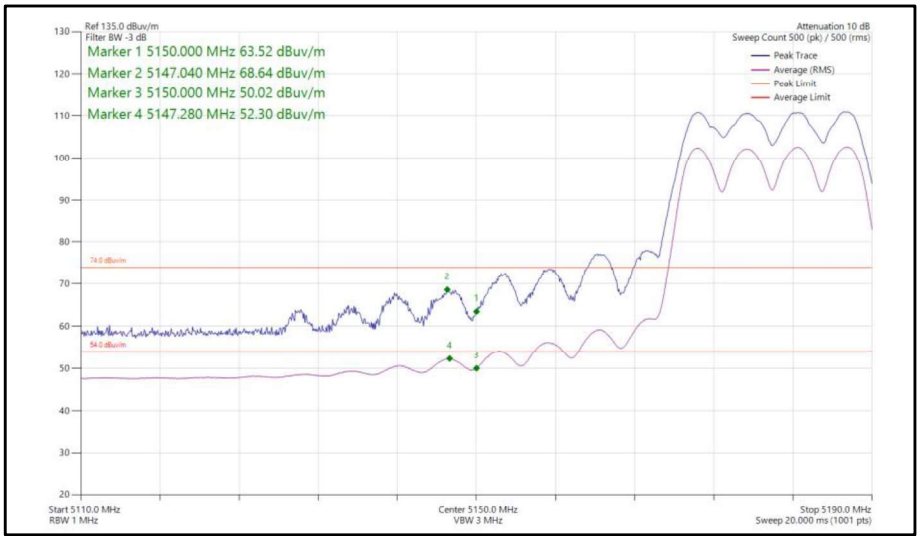

Figure 9 - HT20, 5180 MHz (CH36), Band Edge Frequency 5150.0 MHz

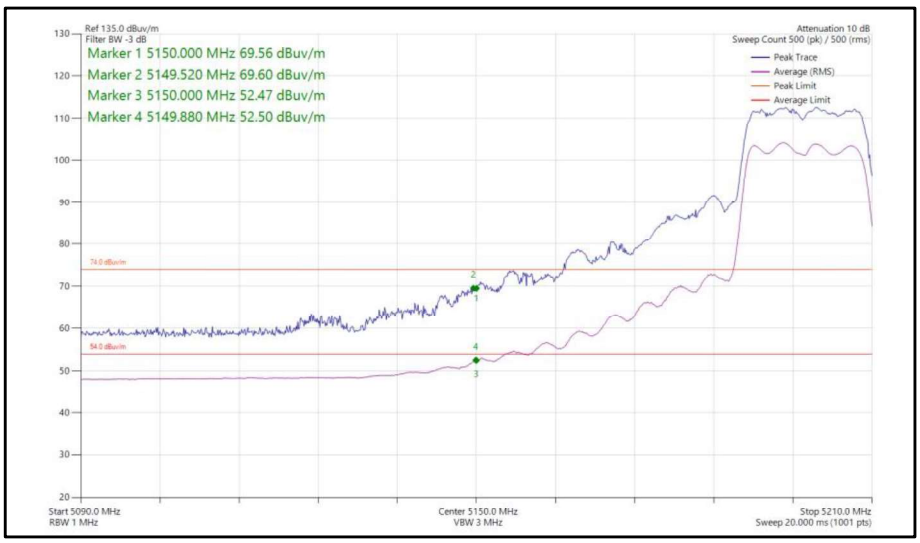

Figure 10 - HT20, 5200 MHz (CH40), Band Edge Frequency 5150 MHz

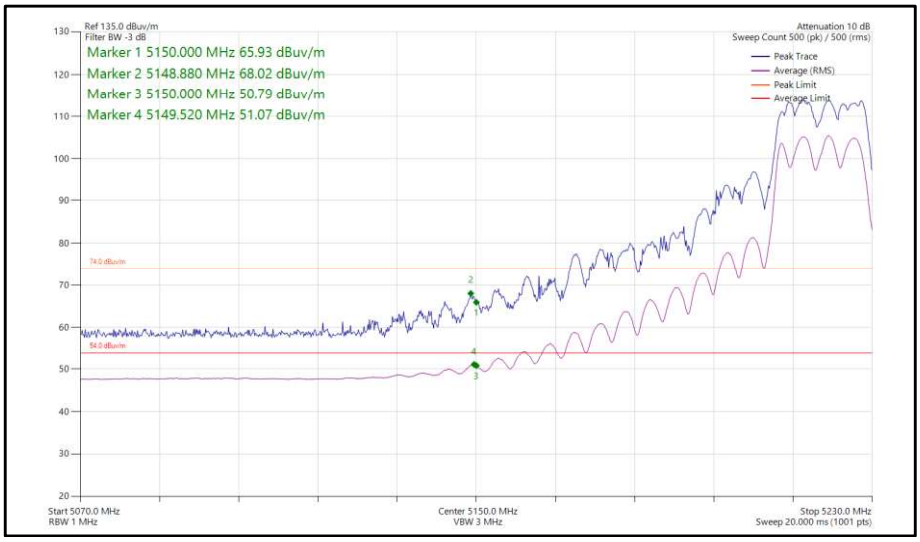

Figure 11 - HT20, 5220 MHz (CH44), Band Edge Frequency 5150 MHz

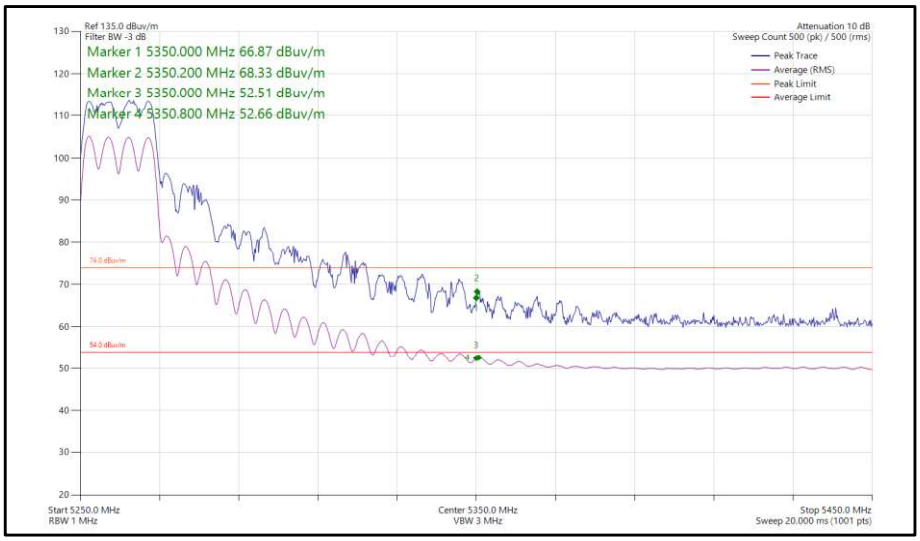

Figure 12 - HT20, 5260 MHz (CH52), Band Edge Frequency 5350 MHz

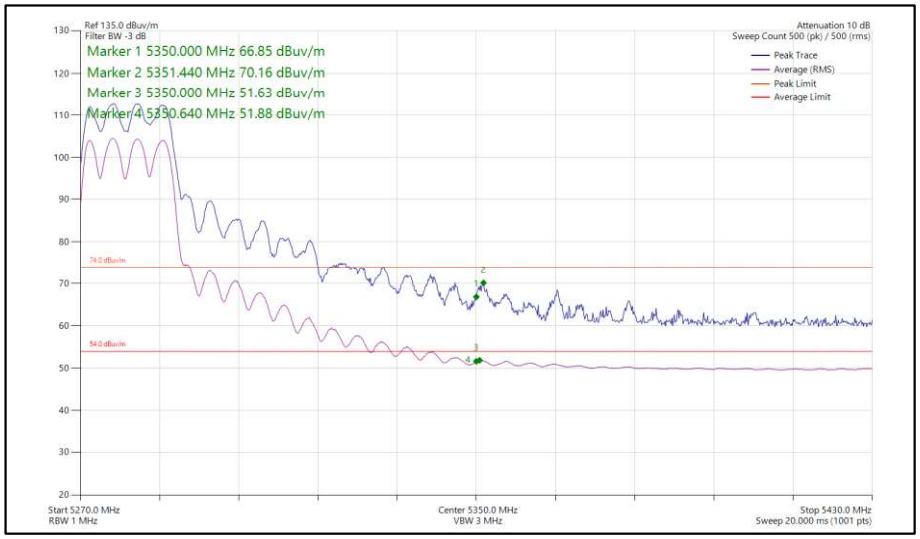

Figure 13 - HT20, 5280 MHz (CH56), Band Edge Frequency 5350 MHz

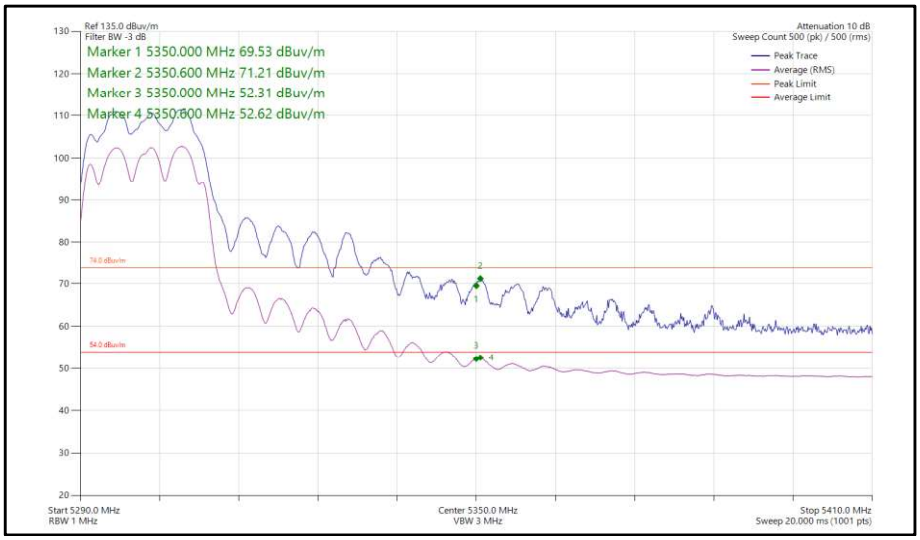

Figure 14 - HT20, 5300 MHz (CH60), Band Edge Frequency 5350 MHz

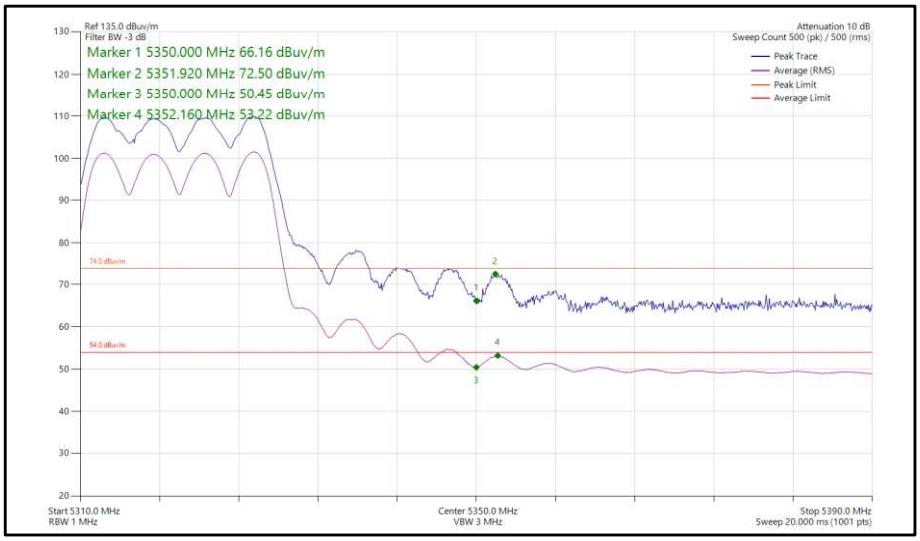

Figure 15 - HT20, 5320 MHz (CH64), Band Edge Frequency 5350 MHz

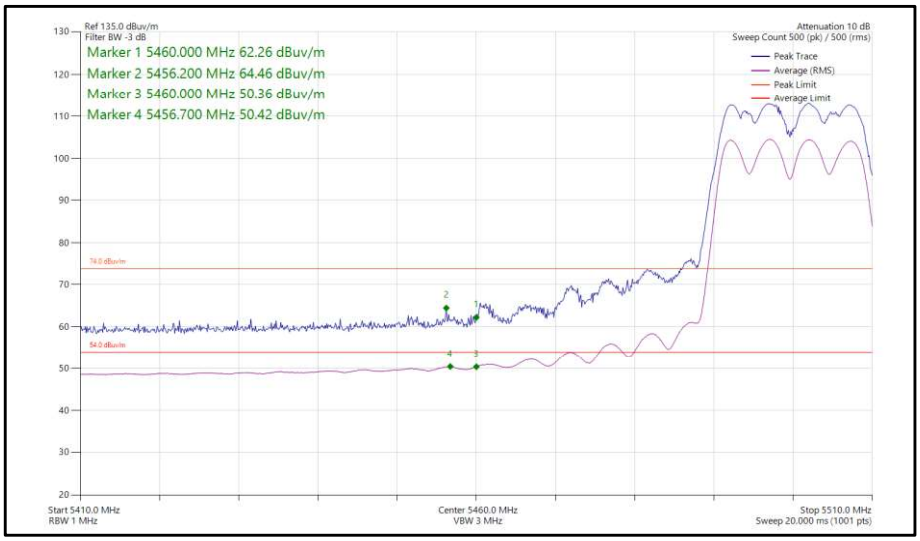

Figure 16 - HT20, 5500 MHz (CH100), Band Edge Frequency 5460 MHz

Mode	Antenna Port	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)	Average Level (dBµV/m)
HT40- MCS0	(Main + Aux)	5190	5150	69.32	53.91
HT40- MCS0	(Main + Aux)	5230	5150	69.71	53.63
HT40- MCS0	(Main + Aux)	5270	5350	69.54	52.90
HT40- MCS0	(Main + Aux)	5310	5350	65.61	52.59
HT40- MCS0	(Main + Aux)	5510	5460	64.23	52.52

Table 18 - HT40 - MCS0, Restricted Band Edge Results

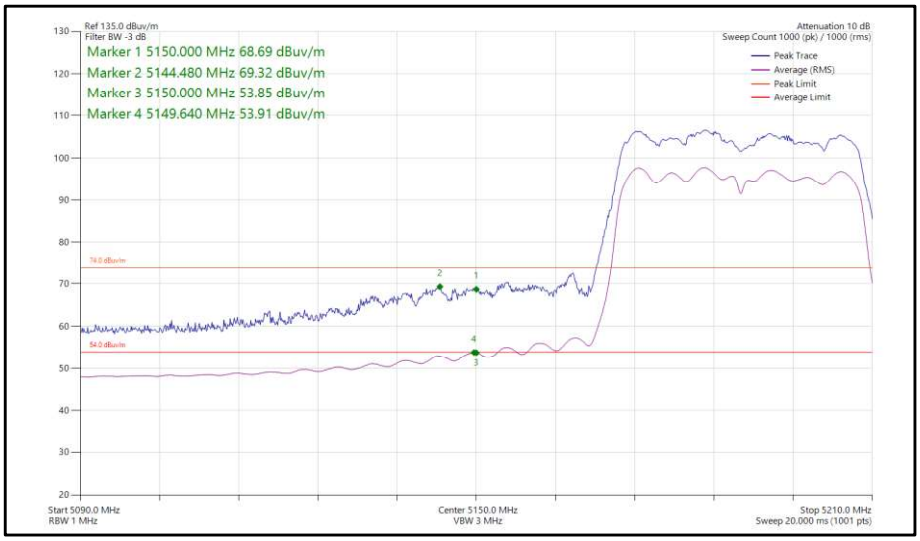

Figure 17 - HT40, 5190 MHz (CH38), Band Edge Frequency 5150.0 MHz

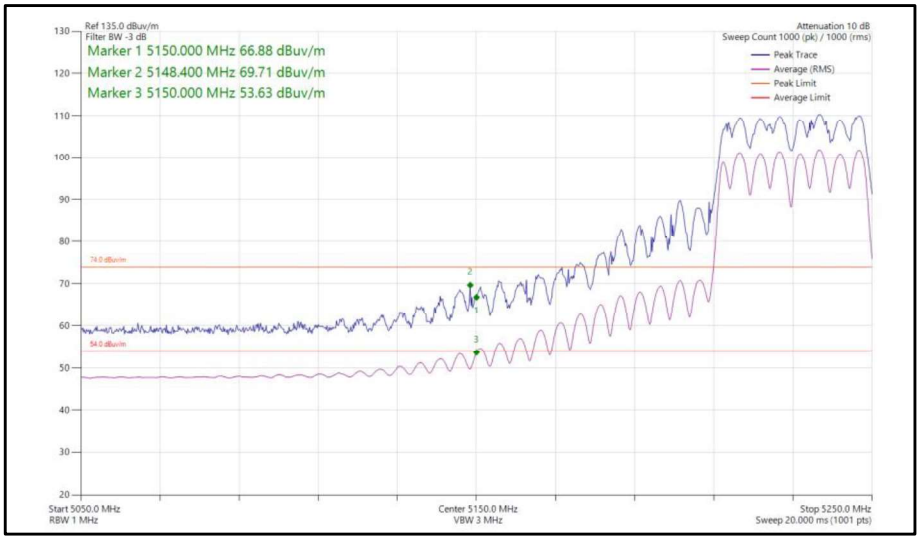

Figure 18 - HT40, 5230 MHz (CH46), Band Edge Frequency 5150 MHz

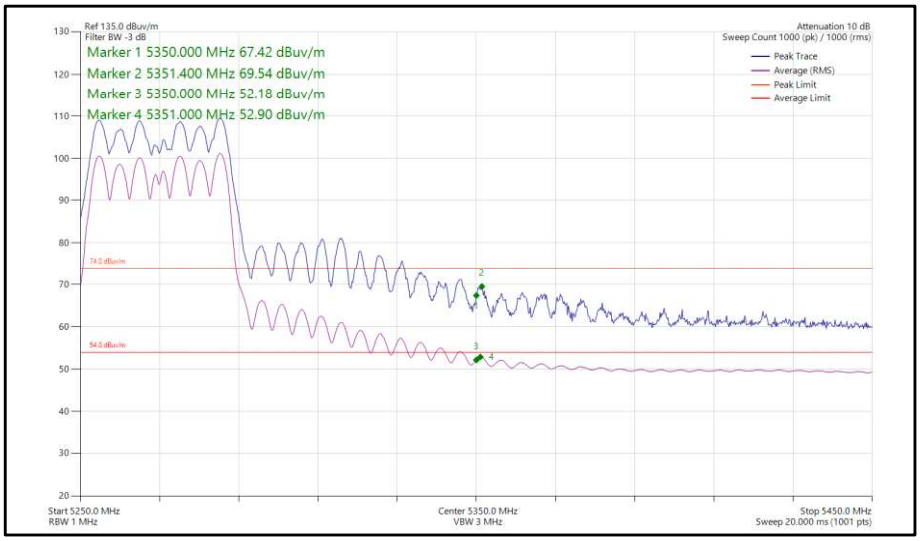

Figure 19 - HT40, 5270 MHz (CH54), Band Edge Frequency 5150 MHz

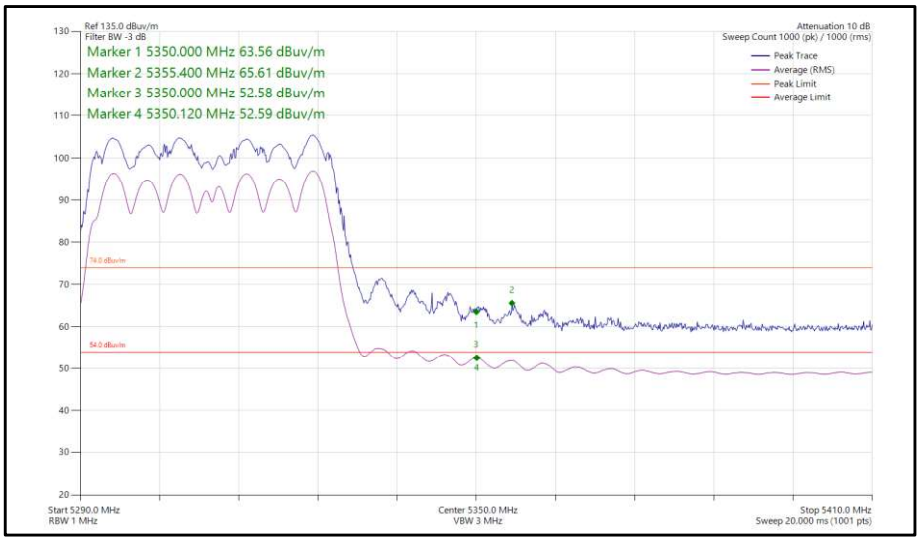

Figure 20 - HT40, 5310 MHz (CH62), Band Edge Frequency 5350 MHz

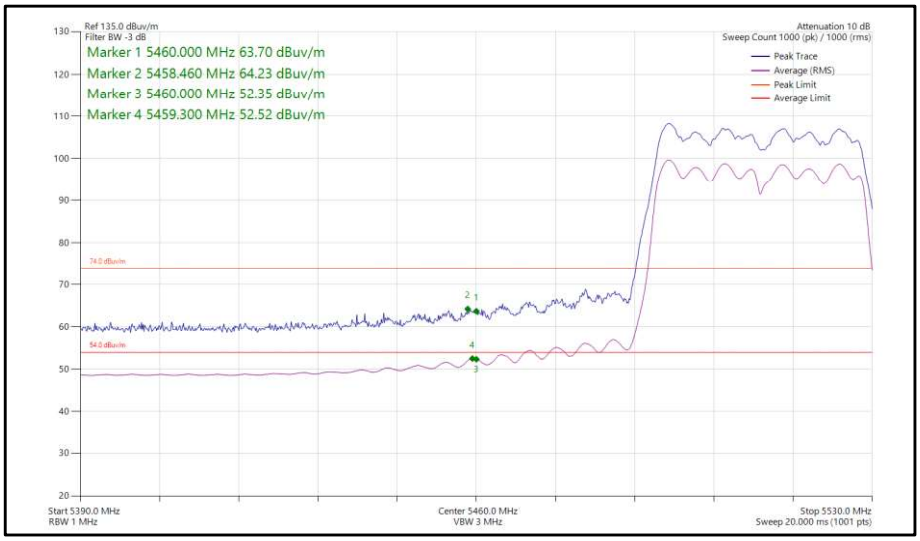

Figure 21 - HT40, 5510 MHz (CH102), Band Edge Frequency 5460 MHz

Mode	Antenna Port	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)	Average Level (dBµV/m)
VHT80 - MCS0	(Main + Aux)	5210	5150	65.44	53.08
VHT80 - MCS0	(Main + Aux)	5290	5350	67.31	53.40
VHT80 - MCS0	(Main + Aux)	5530	5460	66.98	53.69

Table 19 - VHT80 - MCS0, Restricted Band Edge Results

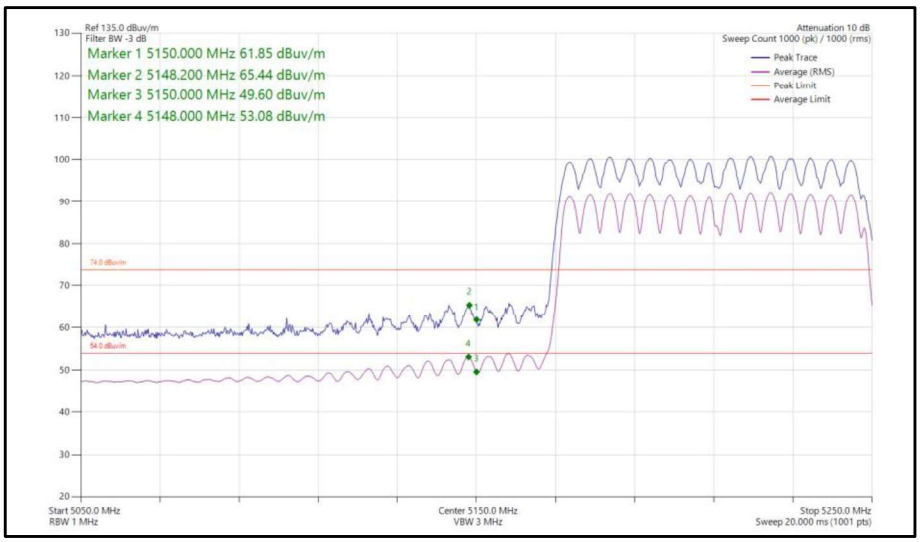

Figure 22 - VHT80, 5210 MHz (CH42), Band Edge Frequency 5150.0 MHz

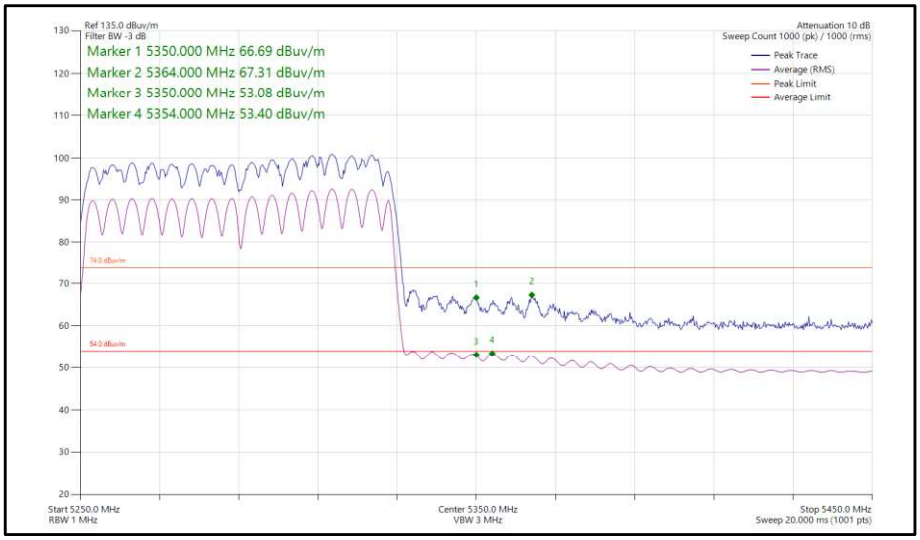

Figure 23 - VHT80, 5290 MHz (CH58), Band Edge Frequency 5350 MHz

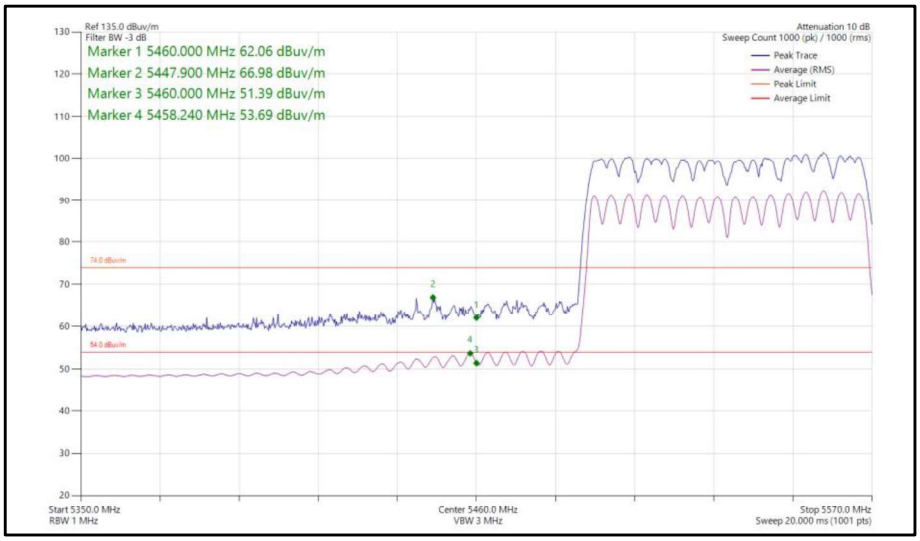

Figure 24 - VHT80, 5530 MHz (CH106), Band Edge Frequency 5460 MHz

FCC 47 CFR Part 15, Limit Clause 15.205 and Industry Canada RSS-GEN Limit Clause 8.10

	Peak (dBµV/m)	Average (dBµV/m)
Restricted Bands of Operation	74	54

Table 20 - Restricted Band Edge Limit Table

2.1.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 12.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Test Receiver	Rohde & Schwarz	ESU40	3506	12	18-Mar-2022
EmX Emissions Software	TUV SUD		5125	-	Software
Cable (sma-sma, 2 m)	Junkosha	MWX221-02000DMS	5428	12	15-Oct-2021
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5473	12	01-Apr-2022
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5481	12	31-Mar-2022
1m K-Type Cable	Junkosha	MWX241-01000KMSKMS/A	5511	12	09-Apr-2022
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB 40	5604	12	08-Sep-2021
Broadband Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA 9120 B	5611	12	22-Sep-2021
Turntable & Mast Controller	Maturo Gmbh	NCD/498/2799.01	5612	-	TU
Tilt Antenna Mast TAM 4.0-P	Maturo Gmbh	TAM 4.0-P	5613	-	TU
Turntable	Maturo Gmbh	Turntable 1.5 SI-2t	5614	-	TU
Screened Room (12)	MVG	EMC-3	5621	36	11-Aug-2023
Cable Assembly - 18GHz 8m	Junkosha	MWX221-08000NMSNMS/B	5732	6	05-Aug-2021

Table 21

TU - Traceability Unscheduled

2.2 AC Power Line Conducted Emissions

2.2.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.207
ISED RSS-GEN, Clause 8.8

2.2.2 Equipment Under Test and Modification State

RB03, S/N: H9C-UK-PCA0009A - Modification State 0

2.2.3 Date of Test

25-October-2021

2.2.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.2.

The EUT was placed on a non-conductive table 0.8m above a reference ground plane and 0.4m away from a vertical coupling plane

All power was connected to the EUT through an Artificial Mains Network (AMN).

Conducted disturbance voltage measurements on mains lines were made at the output of the AMN.

2.2.5 Environmental Conditions

Ambient Temperature	26.3 °C
Relative Humidity	37.8 %

2.2.6 Test Results

5 GHz WLAN

Applied supply Voltage: 60 Hz

Applied supply frequency: 117 Vac

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.174	32.5	64.8	-32.3	Q-Peak
0.174	15.3	54.8	-39.5	CISPR Avg
7.879	28.3	60.0	-31.7	Q-Peak
7.879	12.9	50.0	-37.1	CISPR Avg

Table 22 - Live Line Emissions Results

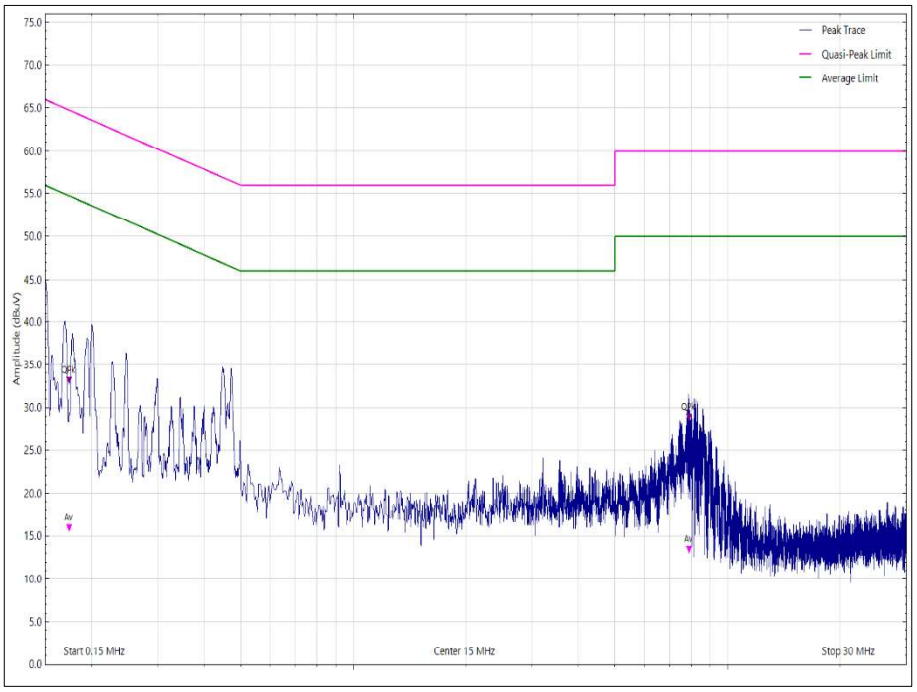

Figure 25 - Live Line - 150 kHz to 30 MHz

Frequency (MHz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
0.150	34.6	66.0	-31.4	Q-Peak
0.150	14.7	56.0	-41.3	CISPR Avg

Table 23 - Neutral Line Emissions Results

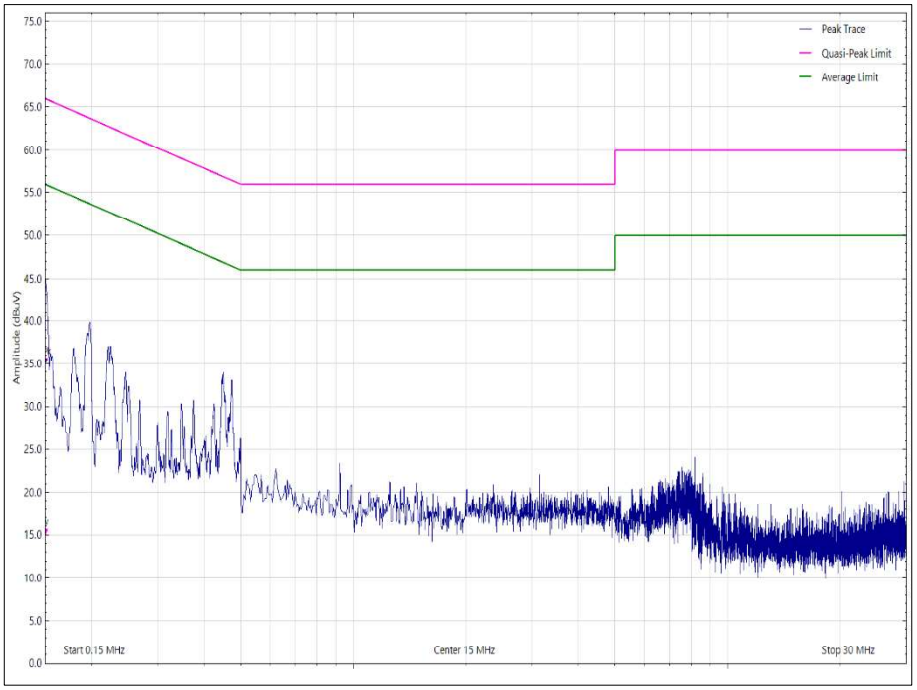

Figure 26 - Neutral Line - 150 kHz to 30 MHz

FCC 47 CFR Part 15, Limit Clause 15.207 and Industry Canada RSS-GEN, Limit Clause 8.8

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

Table 24

*Decreases with the logarithm of the frequency.

2.2.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 12.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
LISN	Rohde & Schwarz	ESH3-Z5	1390	12	28-Jan-2022
Transient Limiter	Hewlett Packard	11947A	2377	12	01-Mar-2022
Test Receiver	Rohde & Schwarz	ESU40	3506	12	18-Mar-2022
Cable (K-Type to K-Type, 2 m)	Scott Cables	KPS-1501-2000-KPS	4526	6	06-Mar-2022
EmX Emissions Software	TUV SUD		5125	-	Software
Cable (N-Type to N-Type, 8 m)	Teledyne	PR90-088-8MTR	5450	6	08-Mar-2022
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5481	12	31-Mar-2022
Screened Room (12)	MVG	EMC-3	5621	36	11-Aug-2023

Table 25

2.3 Maximum Conducted Output Power

2.3.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)
ISED RSS-247, Clause 6.2

2.3.2 Equipment Under Test and Modification State

RB03, S/N: H8U-JP-FJN0002X - Modification State 0

2.3.3 Date of Test

06-May-2021 to 23-June-2021

2.3.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 12.3.3.2 method PM-G, with the exception of 'straddle' channels.

The ‘straddle’ channels that operate across the U-NII 2C and U-NII 3 boundaries are reported by comparing output power in each band to their respective limits, in accordance with ANSI C63.10, clause 12.3.2.4 method SA-2.

MIMO output port summing was performed in accordance with KDB 662911 D01, clause F)2)c)(i) for cross-polarized antennas with the same individual gain.

2.3.5 Environmental Conditions

Ambient Temperature	22.3 - 23.2 °C
Relative Humidity	24.1 - 42.5 %

2.3.6 Test Results

5 GHz WLAN

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	98.4
Data Rate:	6 Mbps	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5180	-	10.96	10.44	-	-	13.72	23.85	-10.13
5200	-	14.74	14.24	-	-	17.50	23.75	-6.25
5240	-	14.59	14.12	-	-	17.37	23.96	-6.59

Table 26 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	98.4
Data Rate:	6 Mbps	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑			
5180	16.620	10.93	10.36	-	-	13.66	19.81	22.21	-2.40
5200	16.620	10.59	10.20	-	-	13.40	19.65	22.21	-2.56
5240	16.620	10.43	10.10	-	-	13.27	19.31	22.21	-2.89

Table 27 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	98.4
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5180	-	14.18	13.61	-	-	16.91	23.85	-6.94
5200	-	14.93	14.42	-	-	17.70	23.75	-6.05
5240	-	14.80	14.27	-	-	17.55	23.96	-6.41

Table 28 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	98.5
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑			
5180	17.640	10.87	10.43	-	-	13.66	19.81	22.46	-2.65
5200	17.640	10.84	10.35	-	-	13.61	19.86	22.46	-2.60
5240	17.640	10.71	10.22	-	-	13.47	19.51	22.46	-2.95

Table 29 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5180	-	14.19	13.58	-	-	16.90	23.85	-6.95
5200	-	14.94	14.43	-	-	17.69	23.75	-6.06
5240	-	14.80	14.28	-	-	17.54	23.96	-6.42

Table 30 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	97.1
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑			
5180	17.700	10.82	10.43	-	-	13.63	19.78	22.48	-2.70
5200	17.640	10.77	10.37	-	-	13.58	19.83	22.46	-2.64
5240	17.700	10.64	10.27	-	-	13.44	19.48	22.48	-3.00

Table 31 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.20
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5190	-	13.82	13.45	-	-	16.63	23.80	-7.17
5230	-	13.62	13.13	-	-	16.39	23.97	-7.57

Table 32 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.20
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑			
5190	36.300	11.75	11.31	-	-	14.54	20.74	23.00	-2.26
5230	36.200	11.56	11.19	-	-	14.38	20.41	23.00	-2.59

Table 33 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.20
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5190	-	14.00	13.35	-	-	16.68	23.80	-7.12
5230	-	13.75	13.14	-	-	16.44	23.97	-7.52

Table 34 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.20
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑			
5190	36.300	11.77	11.32	-	-	14.56	20.76	23.00	-2.24
5230	36.300	11.58	11.10	-	-	14.35	20.38	23.00	-2.62

Table 35 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	94.7
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.14
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5210	-	9.20	8.81	-	-	12.01	23.86	-11.85

Table 36 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	94.6
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.14
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑			
5210	76.120	9.18	8.78	-	-	11.99	18.13	23.00	-4.87

Table 37 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	91.6
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.14
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5210	-	9.25	8.83	-	-	12.05	23.86	-11.81

Table 38 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	91.4
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.14
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑			
5210	76.120	8.54	8.07	-	-	11.21	17.35	23.00	-5.65

Table 39 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	98.3
Data Rate:	6 Mbps	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.23
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5260	19.860	14.61	14.04	-	-	17.34	23.75	-6.41
5280	20.040	14.62	14.16	-	-	17.40	23.79	-6.39
5320	19.980	11.78	11.10	-	-	14.46	23.96	-9.50

Table 40 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5260	16.620	14.61	14.04	-	-	17.34	23.21	-5.86	23.57	29.21	-5.63
5280	16.620	14.62	14.16	-	-	17.40	23.21	-5.80	23.61	29.21	-5.59
5320	16.620	11.78	11.10	-	-	14.46	23.21	-8.75	20.50	29.21	-8.71

Table 41 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	98.4
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.23
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5260	20.340	14.88	14.30	-	-	17.59	23.77	-6.18
5280	20.580	14.90	14.36	-	-	17.62	23.79	-6.17
5320	20.700	14.02	13.32	-	-	16.68	23.96	-7.28

Table 42 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5260	17.700	14.88	14.30	-	-	17.59	23.48	-5.89	23.82	29.48	-5.66
5280	17.700	14.90	14.36	-	-	17.62	23.48	-5.86	23.83	29.48	-5.65
5320	17.700	14.02	13.32	-	-	16.68	23.48	-6.80	22.72	29.48	-6.76

Table 43 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.23
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5260	20.340	14.85	14.26	-	-	17.54	23.77	-6.23
5280	20.340	14.86	14.33	-	-	17.59	23.79	-6.20
5320	20.460	14.01	13.31	-	-	16.68	23.96	-7.28

Table 44 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5260	17.700	14.85	14.26	-	-	17.54	23.48	-5.94	23.77	29.48	-5.71
5280	17.700	14.86	14.33	-	-	17.59	23.48	-5.89	23.80	29.48	-5.68
5320	17.700	14.01	13.31	-	-	16.68	23.48	-6.80	22.72	29.48	-6.76

Table 45 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.22
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5270	41.000	13.68	13.18	-	-	16.44	23.78	-7.34
5310	41.500	10.86	10.21	-	-	13.55	23.90	-10.35

Table 46 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5270	36.300	13.68	13.18	-	-	16.44	24.00	-7.56	22.66	30.00	-7.34
5310	36.300	10.86	10.21	-	-	13.55	24.00	-10.45	19.65	30.00	-10.35

Table 47 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.22
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5270	41.300	13.66	13.18	-	-	16.42	23.78	-7.36
5310	41.900	10.86	10.22	-	-	13.55	23.90	-10.34

Table 48 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5270	36.400	13.66	13.18	-	-	16.42	24.00	-7.58	22.64	30.00	-7.36
5310	36.300	10.86	10.22	-	-	13.55	24.00	-10.45	19.66	30.00	-10.34

Table 49 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.19
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5290	82.280	9.13	8.74	-	-	11.94	23.81	-11.87

Table 50 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5290	76.120	9.13	8.74	-	-	11.94	24.00	-12.06	18.13	30.00	-11.87

Table 51 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	91.3
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.19
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5290	82.500	9.16	8.95	-	-	12.04	23.81	-11.77

Table 52 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5290	76.120	9.16	8.95	-	-	12.04	24.00	-11.96	18.23	30.00	-11.77

Table 53 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	98.3
Data Rate:	6 Mbps	DCCF (dB):	0.08
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5500	19.920	13.98	13.61	-	-	16.80	23.99	-7.19
5580	19.920	14.91	14.67	-	-	17.80	23.99	-6.20
5700	19.920	13.97	13.30	-	-	16.65	23.99	-7.34
5720	14.900	14.83	14.55	-	-	17.71	22.63	-4.93

Table 54 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5500	16.620	13.98	13.61	-	-	16.80	23.21	-6.41	22.53	29.21	-6.68
5580	16.620	14.91	14.67	-	-	17.80	23.21	-5.41	23.61	29.21	-5.60
5700	16.620	13.97	13.30	-	-	16.65	23.21	-6.56	22.55	29.21	-6.66
5720	13.220	14.83	14.55	-	-	17.71	22.21	-4.51	23.81	28.21	-4.41

Table 55 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	98.2
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.08
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5500	20.700	14.18	13.79	-	-	16.99	24.00	-7.01
5580	20.460	15.09	14.85	-	-	17.98	24.00	-6.02
5700	20.700	13.13	12.49	-	-	15.82	24.00	-8.18
5720	15.140	14.95	14.60	-	-	17.79	22.70	-4.91

Table 56 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5500	17.700	14.18	13.79	-	-	16.99	23.48	-6.49	22.72	29.48	-6.76
5580	17.700	15.09	14.85	-	-	17.98	23.48	-5.50	23.79	29.48	-5.69
5700	17.700	13.13	12.49	-	-	15.82	23.48	-7.66	21.72	29.48	-7.76
5720	13.760	14.95	14.60	-	-	17.79	22.39	-4.60	23.89	28.39	-4.50

Table 57 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5500	20.400	14.15	13.80	-	-	16.98	24.00	-7.02
5580	20.280	15.10	14.87	-	-	17.99	24.00	-6.01
5700	20.280	13.14	12.48	-	-	15.83	24.00	-8.17
5720	15.080	14.91	14.59	-	-	17.76	22.68	-4.92

Table 58 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5500	17.700	14.15	13.80	-	-	16.98	23.48	-6.50	22.71	29.48	-6.77
5580	17.700	15.10	14.87	-	-	17.99	23.48	-5.49	23.80	29.48	-5.68
5700	17.700	13.14	12.48	-	-	15.83	23.48	-7.65	21.73	29.48	-7.75
5720	13.760	14.91	14.59	-	-	17.76	22.39	-4.62	23.86	28.39	-4.52

Table 59 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.00
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5510	40.800	13.07	12.74	-	-	15.92	24.00	-8.08
5550	41.100	13.94	13.70	-	-	16.83	24.00	-7.17
5670	41.100	13.65	13.31	-	-	16.49	24.00	-7.51
5710	35.500	14.40	14.13	-	-	17.27	24.00	-6.73

Table 60 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5510	36.300	13.07	12.74	-	-	15.92	24.00	-8.08	21.70	30.00	-8.30
5550	36.300	13.94	13.70	-	-	16.83	24.00	-7.17	22.52	30.00	-7.48
5670	36.300	13.65	13.31	-	-	16.49	24.00	-7.51	22.22	30.00	-7.78
5710	32.900	14.40	14.13	-	-	17.27	24.00	-6.73	23.27	30.00	-6.73

Table 61 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.23
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.00
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5510	41.500	13.08	12.74	-	-	15.91	24.00	-8.09
5550	41.200	13.96	13.72	-	-	16.84	24.00	-7.16
5670	41.100	13.67	13.32	-	-	16.50	24.00	-7.50
5710	35.900	14.40	14.11	-	-	17.27	24.00	-6.73

Table 62 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5510	36.400	13.08	12.74	-	-	15.91	24.00	-8.09	21.69	30.00	-8.31
5550	36.400	13.96	13.72	-	-	16.84	24.00	-7.16	22.53	30.00	-7.47
5670	36.400	13.67	13.32	-	-	16.50	24.00	-7.50	22.23	30.00	-7.77
5710	32.900	14.40	14.11	-	-	17.27	24.00	-6.73	23.27	30.00	-6.73

Table 63 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	94.6
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	0.24
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	5.93
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5530	82.500	9.21	9.04	-	-	12.13	24.00	-11.87
5610	82.280	9.39	9.19	-	-	12.30	24.00	-11.70
5690	76.140	10.22	9.90	-	-	13.07	24.00	-10.93

Table 64 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5530	76.120	9.21	9.04	-	-	12.13	24.00	-11.87	17.86	30.00	-12.14
5610	76.120	9.39	9.19	-	-	12.30	24.00	-11.70	18.04	30.00	-11.96
5690	72.620	10.22	9.90	-	-	13.07	24.00	-10.93	19.00	30.00	-11.00

Table 65 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	91.3
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	0.40
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	5.93
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5530	82.500	9.25	9.07	-	-	12.17	24.00	-11.83
5610	82.280	8.46	8.30	-	-	11.39	24.00	-12.61
5690	76.360	10.24	9.92	-	-	13.09	24.00	-10.91

Table 66 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
		A	B	C	D	∑					
5530	76.120	9.25	9.07	-	-	12.17	24.00	-11.83	17.89	30.00	-12.11
5610	76.120	8.46	8.30	-	-	11.39	24.00	-12.61	17.13	30.00	-12.87
5690	72.620	10.24	9.92	-	-	13.09	24.00	-10.91	19.02	30.00	-10.98

Table 67 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	98.3
Data Rate:	6 Mbps	DCCF (dB):	0.08
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5720	-	8.86	8.74	-	-	11.81	29.90	-18.09
5745	-	14.86	14.80	-	-	17.83	30.00	-12.17
5785	-	14.86	14.95	-	-	17.91	30.00	-12.09
5825	-	14.80	14.96	-	-	17.89	30.00	-12.11

Table 68 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5720	3.640	8.86	8.74	-	-	11.81	22.61	-10.80
5745	16.680	14.86	14.80	-	-	17.83	29.22	-11.39
5785	16.620	14.86	14.95	-	-	17.91	29.21	-11.30
5825	16.620	14.80	14.96	-	-	17.89	29.21	-11.32

Table 69 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	98.2
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.08
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5720	-	9.54	9.22	-	-	12.39	29.90	-17.51
5745	-	15.01	15.02	-	-	18.02	30.00	-11.98
5785	-	15.09	15.11	-	-	18.11	30.00	-11.89
5825	-	15.00	15.14	-	-	18.08	30.00	-11.92

Table 70 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5720	4.060	9.54	9.22	-	-	12.39	23.09	-10.69
5745	17.700	15.01	15.02	-	-	18.02	29.48	-11.46
5785	17.700	15.09	15.11	-	-	18.11	29.48	-11.37
5825	17.700	15.00	15.14	-	-	18.08	29.48	-11.40

Table 71 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5720	-	9.54	9.27	-	-	12.42	29.90	-17.48
5745	-	15.04	15.00	-	-	18.03	30.00	-11.97
5785	-	15.09	15.14	-	-	18.11	30.00	-11.89
5825	-	15.02	15.14	-	-	18.08	30.00	-11.92

Table 72 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5720	4.060	9.54	9.27	-	-	12.42	23.09	-10.67
5745	17.700	15.04	15.00	-	-	18.03	29.48	-11.45
5785	17.700	15.09	15.14	-	-	18.11	29.48	-11.37
5825	17.700	15.02	15.14	-	-	18.08	29.48	-11.40

Table 73 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5710	-	5.01	4.79	-	-	7.91	29.90	-21.99
5755	-	13.91	13.91	-	-	16.92	30.00	-13.08
5795	-	13.95	14.01	-	-	16.99	30.00	-13.01

Table 74 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5710	4.400	5.01	4.79	-	-	7.91	23.43	-15.53
5755	36.300	13.91	13.91	-	-	16.92	30.00	-13.08
5795	36.300	13.95	14.01	-	-	16.99	30.00	-13.01

Table 75 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.23
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5710	-	5.11	4.83	-	-	7.98	29.90	-21.92
5755	-	13.95	13.93	-	-	16.94	30.00	-13.06
5795	-	13.99	14.03	-	-	17.01	30.00	-12.99

Table 76 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5710	4.000	5.11	4.83	-	-	7.98	23.02	-15.04
5755	36.300	13.95	13.93	-	-	16.94	30.00	-13.06
5795	36.400	13.99	14.03	-	-	17.01	30.00	-12.99

Table 77 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	94.6
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	0.24
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5690	-	-2.83	-3.33	-	-	-0.06	29.90	-29.96
5775	-	8.45	8.45	-	-	11.45	30.00	-18.55

Table 78 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5690	5.040	-2.83	-3.33	-	-	-0.06	24.02	-24.08
5775	76.120	8.45	8.45	-	-	11.45	30.00	-18.55

Table 79 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.3.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)1)		
Note{s}:	Straddle channel power was measured using the appropriate SA test method. DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	91.5
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	0.39
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	Minimum 26 dB Bandwidth (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5690	-	-2.96	-3.01	-	-	0.03	29.90	-29.87
5775	-	8.49	8.48	-	-	11.49	30.00	-18.51

Table 80 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Minimum 99% OBW (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
		A	B	C	D	∑		
5690	5.040	-2.96	-3.01	-	-	0.03	24.02	-24.00
5775	76.120	8.49	8.48	-	-	11.49	30.00	-18.51

Table 81 - ISED Maximum Conducted (average) Output Power Results

FCC 47 CFR Part 15E, Limit Clause 15.407(a)

Condition of Operation	Frequency Range (MHz)			
	5150-5250	5250-5350	5470-5725	5725-5850
Max Conducted TX Power	30 dBm (1W) for master device 24 dBm (250 mW) for client device	24 dBm (250 mW) or 11 dBm + 10 Log B, whichever is lower (B = 26 dB emission BW)		30 dBm (1 W)
Max EIRP	4W (36 dBm) with 6 dBi antenna 200 W (53 dBm) for fixed P-t-P application with 23 dBi antenna Additional rule for outdoor operation: Max_EIRP < 125 mW (21 dBm) at any elevation angle > 30° from horizon.	1 W (30 dBm) with 6 dBi antenna		4 W (36 dBm) with 6 dBi antenna. No EIRP limit for fixed P-t-P application (i.e. no antenna gain limit)

Table 82

Industry Canada RSS-247, Limit Clause 6.2.1.1, 6.2.2.1, 6.2.3.1 and 6.2.4.1

Device	Frequency Range (MHz)			
	5150-5250	5250-5350	5470-5725	5725-5850
OEM installed in vehicles	30 mW or 1.76 + 10 $\log_{10}$B, dBm (EIRP); whichever is less	30 mW or 1.76 + 10 $\log_{10}$B, dBm (EIRP)); whichever is less	-	-
Other	200 mW or 10 + 10$\log_{10}$B dBm (EIRP); whichever is less	250 mW or 11 + 10 $\log_{10}$B); whichever is less 1.0 W or 17 + 10$\log_{10}$B dBm EIRP; whichever is less	250 mW or 11 + 10 $\log_{10}$B); whichever is less 1.0 W or 17 + 10$\log_{10}$B dBm EIRP; whichever is less	1W 4W EIRP

Table 83

2.3.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Rubidium Standard	Rohde & Schwarz	XSRM	1316	6	17-May-2021
Multimeter	Iso-tech	IDM101	2421	12	30-Oct-2021
Hygrometer	Rotronic	I-1000	3220	12	16-Oct-2021
Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	17-May-2021
USB Power Sensor	Boonton	RTP5006	5184	12	19-Apr-2022
USB Power Sensor	Boonton	RTP5006	5187	12	19-Apr-2022
MXA Signal Analyser	Keysight Technologies	N9020B	5528	24	04-Mar-2022
Signal Commissioning Unit	TUV SUD	SCU001	5546	12	16-Apr-2022

Table 84

2.4 Maximum Conducted Power Spectral Density

2.4.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)
ISED RSS-247, Clause 6.2

2.4.2 Equipment Under Test and Modification State

RB03, S/N: H8U-JP-FJN0002X - Modification State 0

2.4.3 Date of Test

06-May-2021 to 23-June-2021

2.4.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 12.5.

Duty cycle correction factors (DCCF) were added as calculated to the result tables below, in accordance with ANSI C63.10 clause 12.3.2.4 method SA-2.

Results for the U-NII-3 band were measured in a narrower bandwidth and integrated over 500 kHz using the spectrum analyzers channel power integration function.

MIMO output port summing was performed in accordance with KDB 662911 D01, clause F)2)c)(i) for cross-polarized antennas with the same individual gain.

2.4.5 Environmental Conditions

Ambient Temperature	22.3 - 23.2 °C
Relative Humidity	24.1 - 42.5 %

2.4.6 Test Results

5 GHz WLAN

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	98.4
Data Rate:	6 Mbps	DCCF (dB):	0.07
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	Σ		
5180	0.20	-0.27	-	-	2.98	10.85	-7.87
5200	4.87	4.59	-	-	7.74	10.75	-3.01
5240	4.97	4.21	-	-	7.62	10.96	-3.34

Table 85 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	98.4
Data Rate:	6 Mbps	DCCF (dB):	0.07
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ			
5180	0.21	-0.33	-	-	2.96	9.11	10.00	-0.89
5200	0.56	0.07	-	-	3.33	9.58	10.00	-0.42
5240	0.71	0.28	-	-	3.51	9.55	10.00	-0.45

Table 86 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	98.4
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.07
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	Σ		
5180	3.22	2.51	-	-	5.89	10.85	-4.96
5200	4.65	4.28	-	-	7.48	10.75	-3.27
5240	5.02	4.25	-	-	7.66	10.96	-3.30

Table 87 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	98.5
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.07
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ			
5180	0.60	0.19	-	-	3.41	9.56	10.00	-0.44
5200	0.43	0.08	-	-	3.27	9.52	10.00	-0.48
5240	0.74	0.18	-	-	3.48	9.52	10.00	-0.48

Table 88 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5180	3.12	2.67	-	-	5.91	10.85	-4.94
5200	4.66	4.10	-	-	7.40	10.75	-3.35
5240	4.85	4.21	-	-	7.56	10.96	-3.40

Table 89 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	97.1
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.25
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	∑			
5180	0.61	0.17	-	-	3.40	9.55	10.00	-0.45
5200	0.52	0.05	-	-	3.30	9.55	10.00	-0.45
5240	0.72	0.20	-	-	3.48	9.52	10.00	-0.48

Table 90 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.20
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5190	0.75	0.38	-	-	3.58	10.80	-7.22
5230	0.99	0.27	-	-	3.66	10.97	-7.31

Table 91 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.20
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	∑			
5190	-1.32	-1.62	-	-	1.54	7.74	10.00	-2.26
5230	-1.06	-1.83	-	-	1.58	7.62	10.00	-2.38

Table 92 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.23
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.20
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5190	1.22	0.09	-	-	3.70	10.80	-7.10
5230	0.79	0.14	-	-	3.49	10.97	-7.48

Table 93 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.23
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.20
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	∑			
5190	-1.07	-1.44	-	-	1.76	7.96	10.00	-2.04
5230	-1.03	-1.67	-	-	1.67	7.71	10.00	-2.29

Table 94 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	94.7
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	0.24
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.14
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	Σ		
5210	-7.09	-7.54	-	-	-4.30	10.86	-15.16

Table 95 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	94.6
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	0.24
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.14
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ			
5210	-7.08	-7.46	-	-	-4.25	1.89	10.00	-8.11

Table 96 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	91.6
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	0.38
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.14
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	Σ		
5210	-6.88	-7.36	-	-	-4.11	10.86	-14.97

Table 97 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	RSS-247 6.2.1.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	91.4
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	0.39
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.14
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ			
5210	-8.02	-8.28	-	-	-5.14	1.00	10.00	-9.00

Table 98 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	98.3
Data Rate:	6 Mbps	DCCF (dB):	0.08
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.23
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5260	5.19	4.34	-	-	7.79	10.77	-2.98
5280	4.97	4.50	-	-	7.75	10.79	-3.04
5320	1.33	0.48	-	-	3.93	10.96	-7.03

Table 99 - FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5260	5.19	4.34	-	-	7.79	11.00	-3.21
5280	4.97	4.50	-	-	7.75	11.00	-3.25
5320	1.33	0.48	-	-	3.93	11.00	-7.07

Table 100 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	98.4
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.07
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.23
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5260	4.94	4.31	-	-	7.65	10.77	-3.12
5280	5.12	4.48	-	-	7.82	10.79	-2.97
5320	3.06	2.19	-	-	5.66	10.96	-5.30

Table 101 - FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5260	4.94	4.31	-	-	7.65	11.00	-3.35
5280	5.12	4.48	-	-	7.82	11.00	-3.18
5320	3.06	2.19	-	-	5.66	11.00	-5.34

Table 102 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.23
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5260	4.99	4.32	-	-	7.68	10.77	-3.09
5280	5.07	4.43	-	-	7.77	10.79	-3.02
5320	3.06	2.49	-	-	5.80	10.96	-5.16

Table 103 - FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5260	4.99	4.32	-	-	7.68	11.00	-3.32
5280	5.07	4.43	-	-	7.77	11.00	-3.23
5320	3.06	2.49	-	-	5.80	11.00	-5.20

Table 104 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.22
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5270	0.97	0.41	-	-	3.71	10.78	-7.07
5310	-2.70	-3.63	-	-	-0.13	10.90	-11.02

Table 105 - FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5270	0.97	0.41	-	-	3.71	11.00	-7.29
5310	-2.70	-3.63	-	-	-0.13	11.00	-11.13

Table 106 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.23
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.22
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5270	1.24	0.61	-	-	3.95	10.78	-6.83
5310	-2.55	-3.47	-	-	0.02	10.90	-10.87

Table 107 - FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5270	1.24	0.61	-	-	3.95	11.00	-7.05
5310	-2.55	-3.47	-	-	0.02	11.00	-10.98

Table 108 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	0.23
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.19
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5290	-7.15	-7.70	-	-	-4.41	10.81	-15.22

Table 109 - FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5290	-7.15	-7.70	-	-	-4.41	11.00	-15.41

Table 110 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.250-5.350 GHz	Band:	U-NII-2A
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.2.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	91.3
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	0.39
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.19
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5290	-7.21	-7.41	-	-	-4.30	10.81	-15.11

Table 111 - FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5290	-7.21	-7.41	-	-	-4.30	11.00	-15.30

Table 112 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	98.3
Data Rate:	6 Mbps	DCCF (dB):	0.08
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	5.90
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5500	3.23	2.88	-	-	6.07	11.00	-4.93
5580	5.26	4.87	-	-	8.08	11.00	-2.92
5700	3.33	2.71	-	-	6.04	11.00	-4.96

Table 113 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	98.3
Data Rate:	6 Mbps	DCCF (dB):	0.08
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5720	4.74	4.39	-	-	7.58	10.90	-3.32

Table 114 - FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5720	4.74	4.39	-	-	7.58	11.00	-3.42

Table 115 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	98.2
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.08
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	5.90
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5500	3.13	2.72	-	-	5.94	11.00	-5.06
5580	5.17	4.80	-	-	8.00	11.00	-3.00
5700	2.14	1.57	-	-	4.87	11.00	-6.13

Table 116 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	98.2
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.08
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5720	4.73	4.34	-	-	7.55	10.90	-3.35

Table 117 - FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5720	4.73	4.34	-	-	7.55	11.00	-3.45

Table 118 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	5.90
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5500	3.29	2.65	-	-	5.99	11.00	-5.01
5580	4.97	4.75	-	-	7.87	11.00	-3.13
5700	2.38	1.67	-	-	5.05	11.00	-5.95

Table 119 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5720	4.66	4.37	-	-	7.53	10.90	-3.37

Table 120 - FCC Maximum Power Spectral Density Results

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5720	4.66	4.37	-	-	7.53	11.00	-3.47

Table 121 - ISED Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.00
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5510	-0.42	-1.15	-	-	2.24	11.00	-8.76
5550	1.15	0.73	-	-	3.96	11.00	-7.04
5670	0.69	0.36	-	-	3.54	11.00	-7.46
5710	0.71	0.42	-	-	3.58	11.00	-7.42

Table 122 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.23
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.00
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5510	-0.59	-0.94	-	-	2.25	11.00	-8.75
5550	0.99	0.86	-	-	3.94	11.00	-7.06
5670	0.67	0.55	-	-	3.62	11.00	-7.38
5710	0.71	0.41	-	-	3.57	11.00	-7.43

Table 123 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	94.6
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	0.24
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	5.93
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5530	-7.31	-7.48	-	-	-4.38	11.00	-15.38
5610	-7.02	-7.24	-	-	-4.12	11.00	-15.12
5690	-7.37	-7.69	-	-	-4.52	11.00	-15.52

Table 124 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.470-5.725 GHz	Band:	U-NII-2C
Limit Clause(s):	15.407 (a)(2) RSS-247 6.2.3.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	91.3
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	0.40
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	5.93
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5530	-7.07	-7.50	-	-	-4.27	11.00	-15.27
5610	-7.56	-7.76	-	-	-4.65	11.00	-15.65
5690	-7.12	-7.73	-	-	-4.40	11.00	-15.40

Table 125 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	98.3
Data Rate:	6 Mbps	DCCF (dB):	0.08
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / 500 kHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	∑		
5720	1.65	1.83	-	-	4.75	29.90	-25.15
5745	2.26	2.39	-	-	5.33	30.00	-24.67
5785	2.08	2.19	-	-	5.14	30.00	-24.86
5825	2.40	2.22	-	-	5.32	30.00	-24.68

Table 126 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	98.2
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.08
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / 500 kHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	∑		
5720	1.96	1.44	-	-	4.72	29.90	-25.18
5745	2.16	2.13	-	-	5.15	30.00	-24.85
5785	2.20	1.87	-	-	5.05	30.00	-24.95
5825	2.09	2.26	-	-	5.19	30.00	-24.81

Table 127 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / 500 kHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	Σ		
5720	2.29	1.74	-	-	5.03	29.90	-24.87
5745	2.32	2.11	-	-	5.23	30.00	-24.77
5785	2.04	2.23	-	-	5.15	30.00	-24.85
5825	2.21	2.19	-	-	5.21	30.00	-24.79

Table 128 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	97.0
Modulation Coding Scheme:	MCS0	DCCF (dB):	0.13
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / 500 kHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	Σ		
5710	-1.89	-2.36	-	-	0.89	29.90	-29.01
5755	-1.84	-1.78	-	-	1.20	30.00	-28.80
5795	-1.65	-1.95	-	-	1.21	30.00	-28.79

Table 129 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11n HT40	Duty Cycle (%):	94.9
Modulation Coding Scheme:	MCS8	DCCF (dB):	0.23
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / 500 kHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	Σ		
5710	-1.73	-2.12	-	-	1.09	29.90	-28.81
5755	-1.89	-1.64	-	-	1.25	30.00	-28.75
5795	-1.77	-2.02	-	-	1.12	30.00	-28.88

Table 130 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	94.6
Modulation Coding Scheme:	MCS0x1	DCCF (dB):	0.24
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / 500 kHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	Σ		
5690	-10.15	-10.90	-	-	-7.50	29.90	-37.40
5775	-11.01	-10.89	-	-	-7.94	30.00	-37.94

Table 131 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.3.2.4 C63.10 12.5
Additional Reference(s):	662911 D01 v02r01 F)2)c), 662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	802.11ac VHT80	Duty Cycle (%):	91.5
Modulation Coding Scheme:	MCS0x2	DCCF (dB):	0.39
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	6.10
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	PSD (dBm / 500 kHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	Σ		
5690	-10.36	-10.40	-	-	-7.37	29.90	-37.27
5775	-10.58	-10.40	-	-	-7.48	30.00	-37.48

Table 132 - Maximum Power Spectral Density Results

FCC 47 CFR Part 15E, Limit Clause 15.407(a)

Condition of Operation	Frequency Range (MHz)			
	5150-5250	5250-5350	5470-5725	5725-5850
Max Conducted Power Spectral Density	17 dBm/MHz for master device 11 dBm/MHz for mobile/portable client device	11 dBm/MHz		30 dBm/500 kHz

Table 133

Industry Canada RSS-247, Limit Clause 6.2.1.1, 6.2.2.1, 6.2.3.1 and 6.2.4.1

Device	Frequency Range (MHz)			
	5150-5250	5250-5350	5470-5725	5725-5850
OEM installed in vehicles	-	-	-	-
Other	≤10 dBm/MHz EIRP	≤11 dBm/MHz	≤11 dBm/MHz	≤30 dBm/500kHz

Table 134

2.4.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Rubidium Standard	Rohde & Schwarz	XSRM	1316	6	17-May-2021
Rubidium Standard	Rohde & Schwarz	XSRM	1316	6	03-Dec-2021
Multimeter	Iso-tech	IDM101	2421	12	30-Oct-2021
Hygrometer	Rotronic	I-1000	3220	12	16-Oct-2021
Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	17-May-2021
Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	03-Dec-2021
Climatic Chamber	Aralab	FitoTerm 300E45	4823	12	12-Apr-2022
MXA Signal Analyser	Keysight Technologies	N9020B	5528	24	04-Mar-2022
Signal Commissioning Unit	TUV SUD	SCU001	5546	12	16-Apr-2022

Table 135

2.5 Emission Bandwidth

2.5.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)
ISED RSS-247, Clause 6.2

2.5.2 Equipment Under Test and Modification State

RB03, S/N: H8U-JP-FJN0002X - Modification State 0

2.5.3 Date of Test

06-May-2021

2.5.4 Test Method

The test was performed in accordance with ANSI C63.10, clauses 6.9.3, 12.4.1 and 12.4.2 and ISED requirements were tested in accordance with RSS-GEN clause 6.7.

2.5.5 Environmental Conditions

Ambient Temperature	23.2 °C
Relative Humidity	24.1 %

2.5.6 Test Results

5 GHz WLAN

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):		Test Method(s):	C63.10 6.9.3 C63.10 12.4.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	-
Data Rate:	6 Mbps	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	26 dB Bandwidth (MHz)					Limit (kHz)
	A	B	C	D	Minimum	
5180	20.160	20.340	-	-	20.160	-
5200	20.040	20.040	-	-	20.040	-
5240	20.700	19.980	-	-	19.980	-

Table 136 - 26 dB Bandwidth Results

Figure 27 - Main (A) 5180 MHz (CH36) 26 dB and 99% Bandwidth

Figure 28 - Aux (B) 5180 MHz (CH36) 26 dB and 99% Bandwidth

Figure 29 - Main (A) 5200 MHz (CH40) 26 dB and 99% Bandwidth

Figure 30 - Aux (B) 5200 MHz (CH40) 26 dB and 99% Bandwidth

Figure 31 - Main (A) 5240 MHz (CH48) 26 dB and 99% Bandwidth

Figure 32 - Aux (B) 5240 MHz (CH48) 26 dB and 99% Bandwidth

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):		Test Method(s):	C63.10 6.9.3 C63.10 12.4.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	-
Data Rate:	6 Mbps	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	99% Bandwidth (MHz)					Limit (kHz)
	A	B	C	D	Minimum	
5180	16.620	16.620	-	-	16.620	-
5200	16.620	16.620	-	-	16.620	-
5240	16.620	16.620	-	-	16.620	-

Table 137 - 99% Bandwidth Results

Figure 33 - Main (A) 5180 MHz (CH36) 26 dB and 99% Bandwidth

Figure 34 - Aux (B) 5180 MHz (CH36) 26 dB and 99% Bandwidth

Figure 35 - Main (A) 5200 MHz (CH40) 26 dB and 99% Bandwidth

Figure 36 - Aux (B) 5200 MHz (CH40) 26 dB and 99% Bandwidth

Figure 37 - Main (A) 5240 MHz (CH48) 26 dB and 99% Bandwidth

Figure 38 - Aux (B) 5240 MHz (CH48) 26 dB and 99% Bandwidth

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):		Test Method(s):	C63.10 6.9.3 C63.10 12.4.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	26 dB Bandwidth (MHz)					Limit (kHz)
	A	B	C	D	Minimum	
5180	20.880	20.580	-	-	20.580	-
5200	21.060	20.820	-	-	20.820	-
5240	20.700	20.820	-	-	20.700	-

Table 138 - 26 dB Bandwidth Results

Figure 39 - Main (A) 5180 MHz (CH36) 26 dB and 99% Bandwidth

Figure 40 - Aux (B) 5180 MHz (CH36) 26 dB and 99% Bandwidth

Figure 41 - Main (A) 5200 MHz (CH40) 26 dB and 99% Bandwidth

Figure 42 - Aux (B) 5200 MHz (CH40) 26 dB and 99% Bandwidth

Figure 43 - Main (A) 5240 MHz (CH48) 26 dB and 99% Bandwidth

Figure 44 - Aux (B) 5240 MHz (CH48) 26 dB and 99% Bandwidth

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):		Test Method(s):	C63.10 6.9.3 C63.10 12.4.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS0	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	99% Bandwidth (MHz)					Limit (kHz)
	A	B	C	D	Minimum	
5180	17.700	17.640	-	-	17.640	-
5200	17.700	17.640	-	-	17.640	-
5240	17.700	17.640	-	-	17.640	-

Table 139 - 99% Bandwidth Results

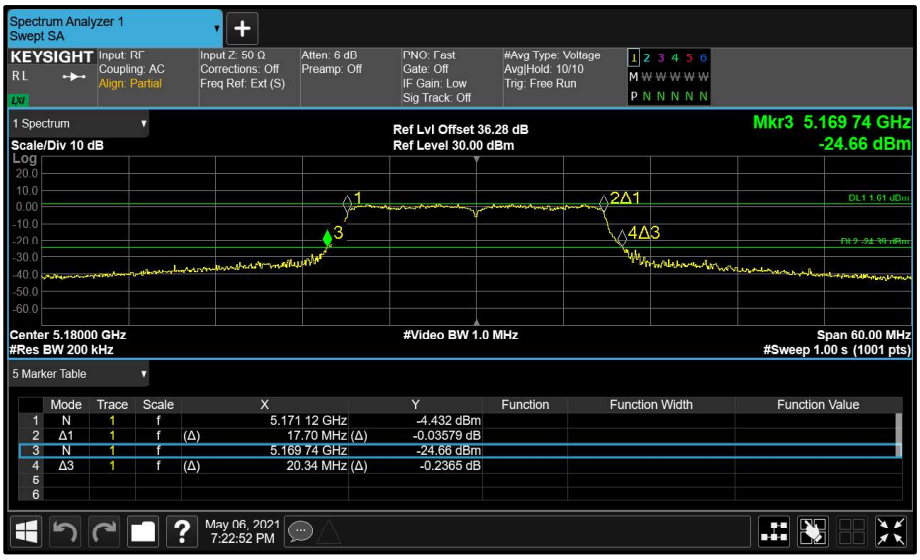

Figure 45 - Main (A) 5180 MHz (CH36) 26 dB and 99% Bandwidth

Figure 46 - Aux (B) 5180 MHz (CH36) 26 dB and 99% Bandwidth

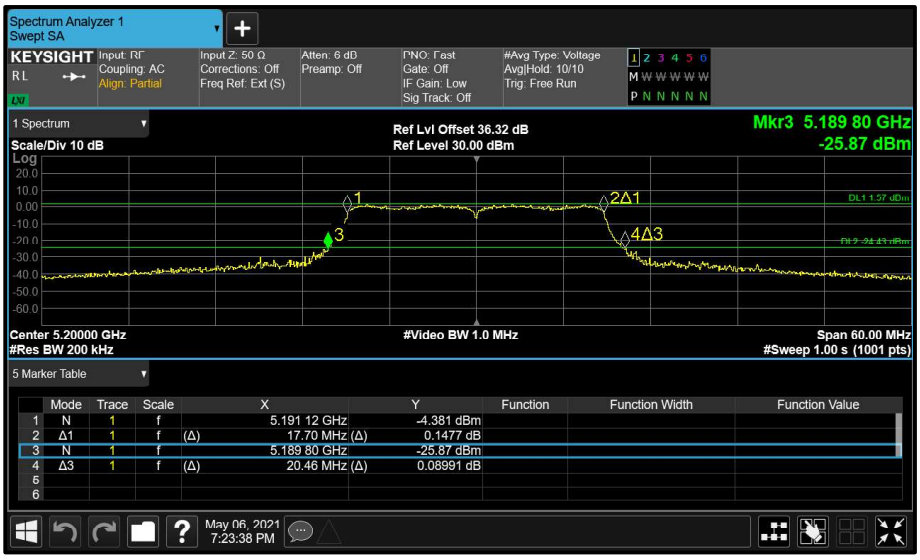

Figure 47 - Main (A) 5200 MHz (CH40) 26 dB and 99% Bandwidth

Figure 48 - Aux (B) 5200 MHz (CH40) 26 dB and 99% Bandwidth

Figure 49 - Main (A) 5240 MHz (CH48) 26 dB and 99% Bandwidth

Figure 50 - Aux (B) 5240 MHz (CH48) 26 dB and 99% Bandwidth

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):		Test Method(s):	C63.10 6.9.3 C63.10 12.4.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	26 dB Bandwidth (MHz)					Limit (kHz)
	A	B	C	D	Minimum	
5180	20.700	20.940	-	-	20.700	-
5200	20.520	21.060	-	-	20.520	-
5240	20.640	20.760	-	-	20.640	-

Table 140 - 26 dB Bandwidth Results

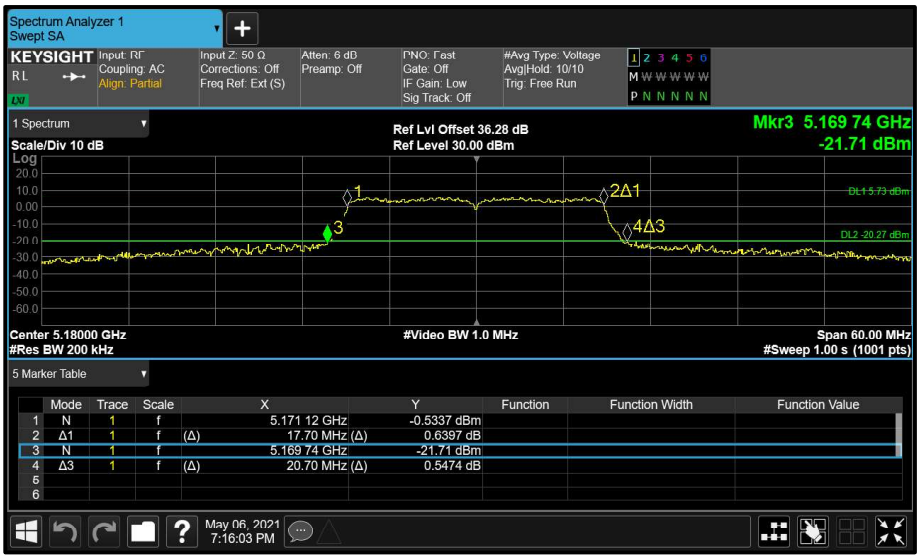

Figure 51 - Main (A) 5180 MHz (CH36) 26 dB and 99% Bandwidth

Figure 52 - Aux (B) 5180 MHz (CH36) 26 dB and 99% Bandwidth

Figure 53 - Main (A) 5200 MHz (CH40) 26 dB and 99% Bandwidth

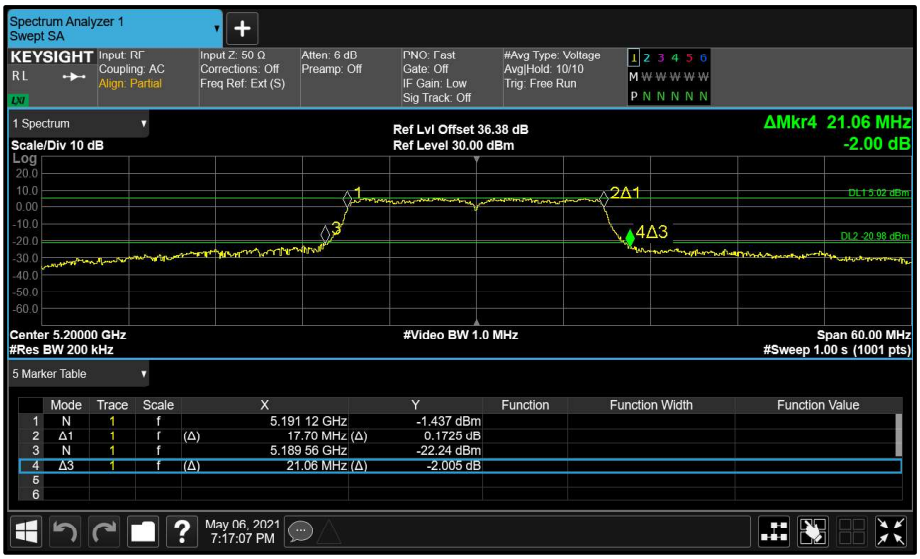

Figure 54 - Aux (B) 5200 MHz (CH40) 26 dB and 99% Bandwidth

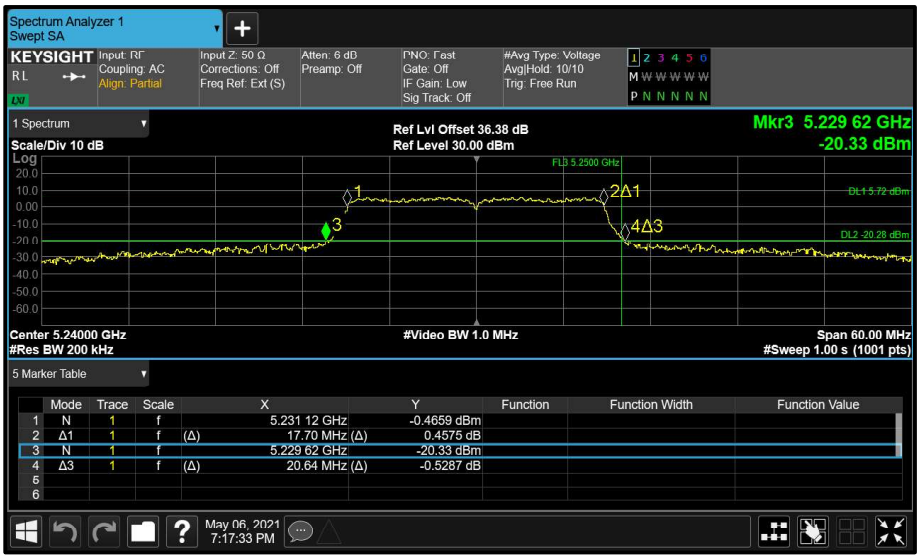

Figure 55 - Main (A) 5240 MHz (CH48) 26 dB and 99% Bandwidth

Figure 56 - Aux (B) 5240 MHz (CH48) 26 dB and 99% Bandwidth

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):		Test Method(s):	C63.10 6.9.3 C63.10 12.4.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS8	DCCF (dB):	-
Antenna Configuration:	Spatial Diversity	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Main + Aux)	Active Chain(s):	1+2

Test Frequency (MHz)	99% Bandwidth (MHz)					Limit (kHz)
	A	B	C	D	Minimum	
5180	17.700	17.700	-	-	17.700	-
5200	17.700	17.640	-	-	17.640	-
5240	17.700	17.700	-	-	17.700	-

Table 141 - 99% Bandwidth Results