

RF TEST REPORT

ARIB-STD-T71

APPLICANT

Hewlett Packard Enterprise Company

MODEL NAME

APINH505

REPORT NUMBER

HA200204-HPE-001-R14-01

DATE ISSUED

June 26, 2020

TEST REPORT

Date of Issue

June 26, 2020

Test SiteHyundai C-Tech, Inc. dba HCT America, Inc.
1726 Ringwood Ave, San Jose, CA 95131, USA

Applicant	Hewlett Packard Enterprise Company
Applicant Address	3333 Scott Blvd, Santa Clara, CA 95054, USA
Model Name	APINH505
Brand Name	ARUBA
EUT Type	Access Point
RF Specification	802.11a/n/ac/ax
Modulation Type	OFDM / OFDM-A
Manufacturer	Hewlett Packard Enterprise Company
Applicable Standard	ARIB STD-T71
Test Period	April 28, 2020 - May 24, 2020

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures required. The results of testing in this report apply only to the product which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested By

Steve In

Test Engineer

Reviewed By

Sunwoo Kim

Technical Manager

REVISION HISTORY

The revision history for this document is shown in table.

TEST REPORT NO.	DATE	DESCRIPTION
HA200204-HPE-001-R14	June 5, 2020	Initial Release
HA200204-HPE-001-R15-01	June 26, 2020	Revision due to Voltage range revised and added Antenna Power explain.

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1. GENERAL INFORMATION

PRODUCT DESCRIPTION

Model	APINH505	
EUT Type	Access Point	
Power Supply	AC Adapter : 100 – 240 VAC, 1.3 A, 50 – 60 Hz / PoE : 56 VDC	
RF Specification	WIFI 2.4 GHz : IEEE 802.11b/g/n/ax HE40 (2x2 MIMO) WIFI 5 GHz : IEEE 802.11a/n/ac/ax HE80 (2x2 MIMO) Bluetooth 5.0 LE ZigBee : IEEE 802.15.4	
Operating Frequency Range	ZigBee	2405 MHz – 2480 MHz
	BLE	2402 MHz – 2480 MHz
	WIFI 2.4 GHz	2412 MHz – 2472 MHz
	RLAN 5 GHz	5150 MHz – 5250 MHz 5250 MHz – 5350 MHz (DFS band) 5470 MHz – 5725 MHz (DFS band)
Transmitter Chain	2x2 MIMO	
Operating Environment	Indoor	
Operating Temperature	0 °C - 40 °C	

RF SPECIFICATION SUBJECT TO THE REPORT

Equipment Category	low-power data communication system in the 5GHz Band	
RF Specification	802.11a / 802.11n HT20 / 802.11ac VHT20 / 802.11ax HE20 802.11n HT40 / 802.11ac VHT40 / 802.11ax HE40 802.11ac VHT80 / 802.11ax HE80	
Operating Frequency Range	5150 MHz – 5250 MHz 5250 MHz – 5350 MHz (DFS band) 5470 MHz – 5725 MHz (DFS band)	
Frequency Range Assignment	W52	20 MHz BW : 5180 MHz – 5240 MHz 40 MHz BW : 5190 MHz – 5230 MHz 80 MHz BW : 5210 MHz
	W53	20 MHz BW : 5260 MHz – 5320 MHz 40 MHz BW : 5270 MHz – 5310 MHz 80 MHz BW : 5290 MHz
	W56	20 MHz BW : 5500 MHz – 5700 MHz 40 MHz BW : 5510 MHz – 5670 MHz 80 MHz BW : 5610 MHz
Modulation Type	OFDM : 802.11a/n/ac OFDM-A : 802.11ax	
Number of Channels	20 MHz BW : 19 Channels 40 MHz BW : 9 Channels 80 MHz BW : 4 Channels	
Applicable Standard(s)	Radio equipment specified in Article 2-1-19 of the certification ordinance	
TPC Feature	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Dynamic Frequency Selection	<input checked="" type="checkbox"/> Master	
	<input checked="" type="checkbox"/> Slave with radar detection	
	<input type="checkbox"/> Slave without radar detection	
Antenna Specification ²⁾	Integrated Antenna Peak Gain : 2.85 dBi uncorrelated / 5.36 dBi correlated	
Firmware Version ²⁾	DFS : ArubaOS_70xx_8.7.0.0-mm-dev_75564	
Hardware Version ³⁾	P2C	

Note :

1. Operating temperature range is declared by the manufacturer.
2. Antenna information is based on the document provided by the manufacturer.
3. Firmware and Hardware Version are as received by the client.

ANTENNA CONFIGURATION

The device employs 2x2 MIMO technologies with possible configurations below.

Frequency	Configuration	SDM	CDD
		ANT1 + ANT2	ANT1 + ANT2
2.4 GHz	802.11b	X	O
	802.11g	X	O
	802.11n	O	O
	802.11ax	O	O
5 GHz	802.11a	X	O
	802.11n	O	O
	802.11ac	O	O
	802.11ax	O	O

The equipment under test supports Cyclic Diversity mode (CDD signals can be correlated).
CDD mode was picked as worst case for testing even though the device support both CDD and SDM

ANTENNA DIRECTIONAL GAIN

Antenna Type	Type	RF Technology	Frequency	Uncorrelated Gain	CDD Correlated Gain
				ANT1 + ANT2	ANT1 + ANT2
PCB	Dipole	802.11b/g/n/ax	2.4 GHz	3.28 dBi	6.27 dBi
PCB	Dipole	802.11a/n/ac/ax	5 GHz	2.85 dBi	5.36 dBi
Metal	Monopole	BLE, ZigBee	2.4 GHz	1.29 dBi	

Note :

The directional gains, uncorrelated and correlated gains were provided by the manufacturer.

2. FACILITIES AND ACCREDITATION

The SAC (Semi-Anechoic Chamber) and conducted measurement test site is located at 1726 Ringwood Avenue, San Jose, California 95131, USA. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22.



All receiving equipment are compliant against CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

3. TEST SUMMARY

Clause	Parameter	Result
Article 2-1-19-3-2	Antenna Power and Tolerance / e.i.r.p.	Compliant
Article 2-1-19-3-2	Frequency Tolerance	Compliant
Article 2-1-19-3-2	Occupied Bandwidth	Compliant
Article 2-1-19-3-2	Spurious Emissions	Compliant
Article 2-1-19-3-2	Out of Band Leakage Power	Compliant
Article 2-1-19-3-2	Collateral Emission	Compliant
Article 2-1-19-3-2	Adjacent Leakage Channel Power	Compliant
Article 2-1-19-3-2	Transmission Burt Length	Compliant
Article 2-1-19-3-2	Interference Prevention Function	Compliant
Article 2-1-19-3-2	Carrier Sense Function	Compliant
Article 2-1-19-3-2	Dynamic Frequency Selection (DFS)	Note 1

Note:

1. Refer to the test report (HA200204-HPE-001-R12) for DFS test result

OUTPUT POWER SETTING

Frequency (MHz)	Channel	802.11a (2TX CDD)	802.11n HT20 (2TX CDD)	802.11ac VHT20 (2TX CDD)	802.11ax HE20 (2TX CDD)
5180	36	62	62	62	62
5260	52	62	62	62	62
5320	64	62	62	62	62
5500	100	72	72	72	72
5600	120	72	72	72	72
5700	140	72	72	72	72

Frequency (MHz)	Channel	802.11n HT40 (2TX CDD)	802.11ac VHT40 (2TX CDD)	802.11ax HE40 (2TX CDD)
5190	38	64	64	64
5270	54	64	64	64
5310	62	64	64	64
5510	102	72	72	72
5590	118	72	72	72
5670	134	72	72	72

Frequency (MHz)	Channel	802.11ac VHT80 (2TX CDD)	802.11ax HE80 (2TX CDD)
5210	42	64	64
5290	58	64	64
5530	106	72	72
5610	122	72	72

Note :

power setting value shown on the table above is per chain based on quadruple number from M-Tool 3.1.0.5 used for RF testing.

DECLARED ANTENNA POWER

Frequency Ranges	Declared Antenna Power	
	W52 / W53	W56
5180 MHz – 5320 MHz 5500 MHz – 5700 MHz	10 mW/MHz	10 mW/MHz
5190 MHz – 5310 MHz 5510 MHz – 5670 MHz	5 mW/MHz	5 mW/MHz
5210 MHz – 5290 MHz 5530 MHz – 5610 MHz	2.5 mW/MHz	2.5 mW/MHz

TEST ENVIRONMENT CONDITIONS

Items	Environmental Conditions
Temperature	21.0 C
Humidity	47.6 % R.H.

4. LIST OF TEST EQUIPMENT

Model and type name	Model number	Serial number	Manufacturer	Last Calibrated date	Calibration Lab
Signal Analyzer	N9020A	MY52091291	Agilent	2019-11-08	HCT America
Fixed Attenuator	8493C	09072	Hewlett Packard	2019-12-13	HCT America
DC Power Supply	6030A	2482A-01331	Hewlett Packard	2020-01-30	HCT America
Power Sensor	7002-006	14I00048SNO056	ETS-Lindgren	2019-12-27	HCT America

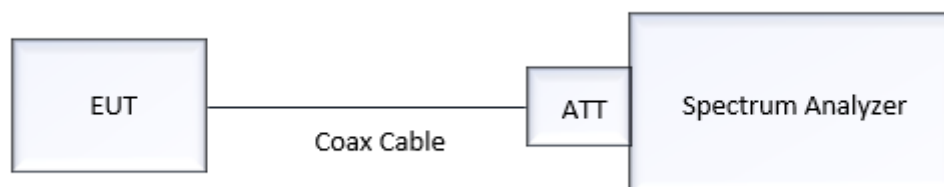
Note:

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NIST/USA.

5. TEST PROCEDURE AND REQUIREMENT

5.1 Antenna Power / Tolerances

TEST SETUP



TEST PROCEDURE

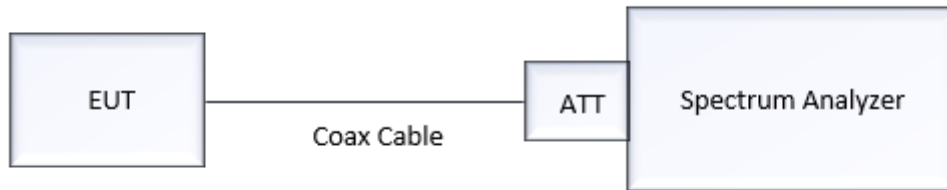
- 1) Set the spectrum analyzer to have the center frequency the same with the measured carrier.
 - RBW : 1 MHz / VBW : 1 MHz
 - Detector Mode : RMS.
- 2) Connect the equipment to be measured. Using the following settings of the spectrum analyzer in combination with "max hold" function, find the frequency of highest power output in the power envelope:
 - Center Frequency : Operating frequency;
 - RBW : 1 MHz / VBW : 1 MHz
 - Detector Mode: Average; averaging: on;
 - Span: 3 x Bandwidth of Spectrum;
 - Amplitude: adjust for middle of the instrument's range. The frequency found shall be recorded.
- 3) Calculate antenna power density by the formula below $PD = Pt + 10 \cdot \log(1/x)$.
 x: The duty cycle of the EUT in continuously transmitting mode
- 4) The rated power density declared by a manufacturer shall be between + 20% to - 80% power range.

LIMIT

Frequency Band	Occupied Bandwidth	Limits		
		Antenna Power	e.i.r.p. (with TPC)	e.i.r.p. (without TPC)
W52	OBW < 19 MHz	≤ 10 mW/MHz	≤ 10 mW/MHz	≤ 10 mW/MHz
	19 MHz ≤ OBW < 38 MHz	≤ 5 mW/MHz	≤ 5 mW/MHz	≤ 5 mW/MHz
	38 MHz ≤ OBW < 78 MHz	≤ 2.5 mW/MHz	≤ 2.5 mW/MHz	≤ 2.5 mW/MHz
W53	OBW < 19 MHz	≤ 10 mW/MHz	≤ 10 mW/MHz	≤ 5 mW/MHz
	19 MHz ≤ OBW < 38 MHz	≤ 5 mW/MHz	≤ 5 mW/MHz	≤ 2.5 mW/MHz
	38 MHz ≤ OBW < 78 MHz	≤ 2.5 mW/MHz	≤ 2.5 mW/MHz	≤ 1.25 mW/MHz
W56	OBW < 19.7 MHz	≤ 10 mW/MHz	≤ 50 mW/MHz	≤ 25 mW/MHz
	19.7 MHz ≤ OBW < 38 MHz	≤ 5 mW/MHz	≤ 25 mW/MHz	≤ 12.5 mW/MHz
	38 MHz ≤ OBW < 78 MHz	≤ 2.5 mW/MHz	≤ 12.5 mW/MHz	≤ 6.25 mW/MHz
Antenna Power Error		+20%, -80% of the rated RF power declared by manufacturer		

5.2 Frequency Tolerance

TEST SETUP



TEST PROCEDURE

There are two methods for the test item

1) CW Tone method

- Setting of SA is following as: RBW: 1 kHz / VBW: 30 kHz.
- Make Max. level to get measuring frequency f.

2) 10 dB down method

- Setting of SA is following as: RBW: 100 kHz / VBW: 100 kHz / Trace : Max Hold.
- Display line level = 10 dB down from the maximum point to the left (f_{LOW}) and the right (f_{HIGH})
- Determine the measuring frequency $f = (f_{LOW} + f_{HIGH}) / 2$

$$\text{Frequency Tolerance (ppm)} = ((f - f_c) / f_c) * 1000000$$

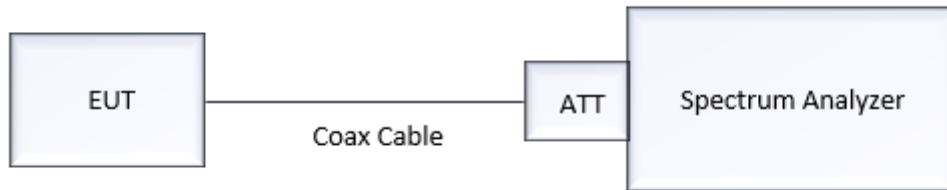
The method 1 (CW tone method) was used for testing

LIMIT

Item	Limits
Frequency Tolerance	$\leq \pm 20$ ppm

5.3 Occupied Channel Bandwidth

TEST SETUP



TEST PROCEDURE

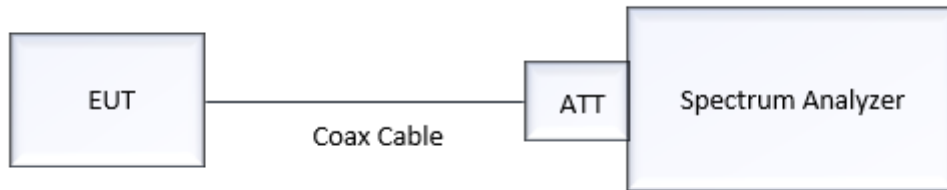
- 1) Setting of SA is following as:
 - RBW: 100KHz / VBW:100KHz
 - Sweep Mode: Continuous sweep
 - Detect Mode: Positive Peak
 - Trace Mode: Max hold.
- 2) Have EUT transmit for each different modulation and bandwidth (OFDM / OFDM-A), then set spectrum analyzer for 99% of occupied bandwidth measurement.

LIMIT

Frequency Band	Limits		
	20 MHz BW	40 MHz BW	80 MHz BW
W52	≤ 19 MHz	≤ 38 MHz	≤ 78 MHz
W53	≤ 19 MHz	≤ 38 MHz	≤ 78 MHz
W56	≤ 19.7 MHz	≤ 38 MHz	≤ 78 MHz

5.4 Spurious Emissions

TEST SETUP



TEST PROCEDURE

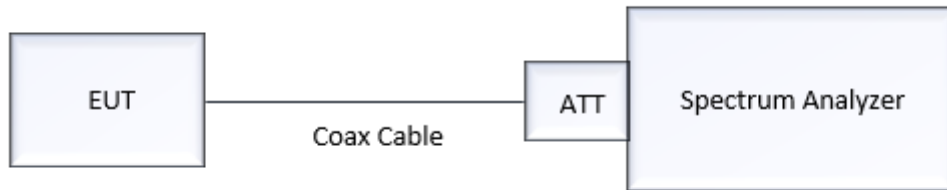
- 1) Have EUT transmit with the maximum power and the channel fixed.
- 2) Setting of SA is following as:
 - RBW:1 MHz / VBW:1 MHz
 - Sweep time: Auto
 - Sweep Mode: Continuous sweep
 - Detect mode: Positive peak
 - Trace mode: Max hold
- 3) Set the spectrum analyzer with the frequency range as shown in the table below, then measure the peak to see the if result is less than the limit 2.5 uW per 1MHz.

LIMIT

Frequency Band	Occupied Bandwidth	Frequency Range	Limits
W52 W53	OBW \leq 18 MHz	$30 \text{ MHz} \leq f < 5140 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
		$5360 \text{ MHz} < f \leq 26000 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
	18 MHz < OBW \leq 19 MHz	$30 \text{ MHz} \leq f < 5135 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
		$5365 \text{ MHz} < f \leq 26000 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
	19 MHz < OBW \leq 38 MHz	$30 \text{ MHz} \leq f < 5100 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
		$5400 \text{ MHz} < f \leq 26000 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
	38 MHz < OBW \leq 78 MHz	$30 \text{ MHz} \leq f < 5020 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
		$5480 \text{ MHz} < f \leq 26000 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
W56	OBW \leq 19.7 MHz	$30 \text{ MHz} \leq f < 5455 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
		$5745 \text{ MHz} < f \leq 26000 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
	19.7 MHz < OBW \leq 38 MHz	$30 \text{ MHz} \leq f < 5420 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
		$5760 \text{ MHz} < f \leq 26000 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
	38 MHz < OBW \leq 78 MHz	$30 \text{ MHz} \leq f < 5340 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$
		$5800 \text{ MHz} < f \leq 26000 \text{ MHz}$	$\leq 2.5 \text{ uW/MHz}$

5.5 Out of Band Leakage Power

TEST SETUP



TEST PROCEDURE

- 1) Have EUT transmit with the maximum power and the channel fixed.
- 2) Setting of SA is following as:
 - RBW:1 MHz / VBW:1 MHz
 - Sweep time: Auto
 - Sweep Mode: Continuous sweep
 - Detect mode: Positive peak
 - Trace mode: Max hold
- 3) Set the spectrum analyzer with the frequency range designated for test channels, then measure the peak to see the if result is less than the limit.

If any emissions from the initial peak scan (RBW = 1 MHz / VBW = 1 MHz and peak detector) is above the limit, then set the spectrum in Zero span and sample detector with RBW = VBW = 1 MHz. The average power over a transmission burst is calculated to ensure if the highest signal level still exceeds the limit.

LIMIT : W52

W52		
Occupied Bandwidth	Frequency Range	Limits
OBW ≤ 18 MHz	5140 MHz ≤ f ≤ 5142 MHz	≤ 2.5 uW/MHz
	5142 MHz < f ≤ 5150 MHz	≤ 15 uW/MHz
	5250 MHz ≤ f < 5251 MHz	≤ 10 ^{1-(f-9)} mW/MHz
	5251 MHz ≤ f < 5260 MHz	≤ 10 ^{-1-(8/90)(f-11)} mW /MHz
	5260 MHz ≤ f < 5266.7 MHz	≤ 10 ^{-1.8-(6/50)(f-20)} mW /MHz
	5266.7 MHz ≤ f ≤ 5360 MHz	≤ 2.5 mW /MHz
18 MHz < OBW ≤ 19 MHz	5135 MHz ≤ f ≤ 5142 MHz	≤ 2.5 uW/MHz
	5142 MHz < f ≤ 5150 MHz	≤ 15 uW/MHz
	5250 MHz ≤ f < 5251 MHz	≤ 10 ^{1-(f-9)} mW/MHz
	5251 MHz ≤ f < 5260 MHz	≤ 10 ^{-1-(8/90)(f-11)} mW /MHz
	5260 MHz ≤ f < 5266.7 MHz	≤ 10 ^{-1.8-(6/50)(f-20)} mW /MHz
	5266.7 MHz ≤ f ≤ 5365 MHz	≤ 2.5 mW /MHz
19 MHz < OBW ≤ 38 MHz	5100 MHz ≤ f ≤ 5141.6 MHz	≤ 2.5 uW/MHz
	5141.6 MHz < f ≤ 5150 MHz	≤ 15 uW/MHz
	5250 MHz ≤ f < 5251 MHz	≤ 10 ^{-(f-20)+log(1/2)} mW /MHz
	5251 MHz ≤ f < 5270 MHz	≤ 10 ^{-(8/190)(f-21)-1+log(1/2)} mW /MHz
	5270 MHz ≤ f < 5278.4 MHz	≤ 10 ^{-(3/50)(f-40)-1.8+log(1/2)} mW /MHz
	5278.4 MHz ≤ f ≤ 5400 MHz	≤ 2.5 uW/MHz
38 MHz < OBW ≤ 78 MHz	5020 MHz ≤ f ≤ 5123.2 MHz	≤ 2.5 uW/MHz
	5123.2 MHz < f ≤ 5150 MHz	≤ 15 uW/MHz
	5250 MHz ≤ f < 5251 MHz	≤ 10 ^{-(f-40)+log(1/4)} mW /MHz
	5251 MHz ≤ f < 5290 MHz	≤ 10 ^{-(8/390)(f-41)-1+log(1/4)} mW /MHz
	5290 MHz ≤ f < 5296.7 MHz	≤ 10 ^{-(3/100)(f-80)-1.8+log(1/4)} mW /MHz
	5296.7 MHz ≤ f ≤ 5480 MHz	≤ 2.5 uW/MHz

LIMIT : W53

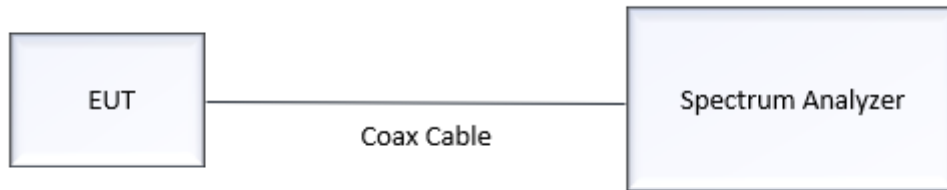
W53		
Occupied Bandwidth	Frequency Range	Limits
OBW ≤ 18 MHz	5140 MHz ≤ f ≤ 5233.3 MHz	≤ 2.5 uW/MHz
	5233.3 MHz < f ≤ 5240 MHz	≤ 10 ^{-1.8-(6/50)(f-20)} mW /MHz
	5240 MHz < f ≤ 5249 MHz	≤ 10 ^{-1-(8/90)(f-11)} mW /MHz
	5249 MHz < f ≤ 5250 MHz	≤ 10 ^{1-(f-9)} mW/MHz
	5350 MHz ≤ f ≤ 5360 MHz	≤ 2.5 mW /MHz
18 MHz < OBW ≤ 19 MHz	5135 MHz ≤ f ≤ 5233.3 MHz	≤ 2.5 uW/MHz
	5233.3 MHz < f ≤ 5240 MHz	≤ 10 ^{-1.8-(6/50)(f-20)} mW /MHz
	5240 MHz < f ≤ 5249 MHz	≤ 10 ^{-1-(8/90)(f-11)} mW /MHz
	5249 MHz < f ≤ 5250 MHz	≤ 10 ^{1-(f-9)} mW/MHz
	5350 MHz ≤ f ≤ 5365 MHz	≤ 2.5 mW /MHz
19 MHz < OBW ≤ 38 MHz	5100 MHz ≤ f ≤ 5210 MHz	≤ 2.5 uW/MHz
	5210 MHz < f ≤ 5221.6 MHz	≤ 2.5 uW/MHz
	5221.6 MHz < f ≤ 5230 MHz	≤ 10 ^{-(3/50)(f-40)-1.8+log(1/2)} mW /MHz
	5230 MHz < f ≤ 5249 MHz	≤ 10 ^{-(8/190)(f-21)-1+log(1/2)} mW /MHz
	5249 MHz < f ≤ 5250 MHz	≤ 10 ^{-(f-20)+log(1/2)} mW /MHz
	5350 MHz ≤ f < 5358.4 MHz	≤ 15 uW/MHz
	5358.4 MHz ≤ f ≤ 5400 MHz	≤ 2.5 uW/MHz
38 MHz < OBW ≤ 78 MHz	5020 MHz ≤ f ≤ 5203.3 MHz	≤ 2.5 uW/MHz
	5203.3 MHz < f ≤ 5210 MHz	≤ 10 ^{-(3/100)(f-80)-1.8+log(1/4)} mW /MHz
	5210 MHz ≤ f < 5249 MHz	≤ 10 ^{-(8/390)(f-41)-1+log(1/4)} mW /MHz
	5249 MHz < f ≤ 5250 MHz	≤ 10 ^{-(f-40)+log(1/4)} mW /MHz
	5350 MHz ≤ f < 5376.8 MHz	≤ 15 uW/MHz
	5376.8 MHz ≤ f ≤ 5480 MHz	≤ 2.5 uW/MHz

LIMIT : W56

W56		
Occupied Bandwidth	Frequency Range	Limits
OBW \leq 19.7 MHz	5455 MHz \leq f \leq 5460 MHz	\leq 2.5 μ W/MHz
	5460 MHz $<$ f \leq 5470 MHz	\leq 15 μ W/MHz
	5725 MHz \leq f $<$ 5740 MHz	\leq 15 μ W/MHz
	5740 MHz \leq f \leq 5745 MHz	\leq 2.5 μ W/MHz
19.7 MHz $<$ OBW \leq 38 MHz	5420 MHz \leq f \leq 5460 MHz	\leq 12.5 μ W/MHz
	5460 MHz $<$ f \leq 5470 MHz	\leq 50 μ W/MHz
	5725 MHz \leq f $<$ 5760 MHz	\leq 12.5 μ W/MHz
38 MHz $<$ OBW \leq 78 MHz	5340 MHz \leq f \leq 5460 MHz	\leq 12.5 μ W/MHz
	5460 MHz $<$ f \leq 5469.5 MHz	\leq 50 μ W/MHz
	5469.5 MHz \leq f \leq 5470 MHz	\leq 51.2 μ W/MHz
	5725 MHz \leq f \leq 5800 MHz	\leq 12.5 μ W/MHz

5.6 Limitation of Collateral Emission of Receiver Measurement

TEST SETUP



LIMIT

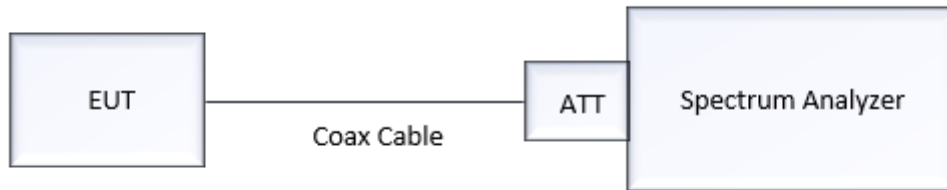
Item	Limits	
Rx Spurious Emissions	$f < 1 \text{ GHz}$	$\leq 4 \text{ nW}$
	$f \geq 1 \text{ GHz}$	$\leq 20 \text{ nW}$

TEST PROCEDURE

- 1) Have EUT continuous receiver mode at one of the test channels.
- 2) Set the spectrum analyzer with RBW = 100 kHz, VBW = 100 kHz, and the frequency range from 30 MHz – 1000 MHz, then measure the peak to see the if result is less than the limit 4 nW.
- 3) Set the spectrum analyzer with RBW = 1 MHz, VBW = 1 MHz, and the frequency range of 1000 MHz – 12500 MHz, then measure the peak to see the if result is less than the limit 20 nW.
- 4) If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those should be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

5.7 Adjacent Channel Leakage Power

TEST SETUP



TEST PROCEDURE

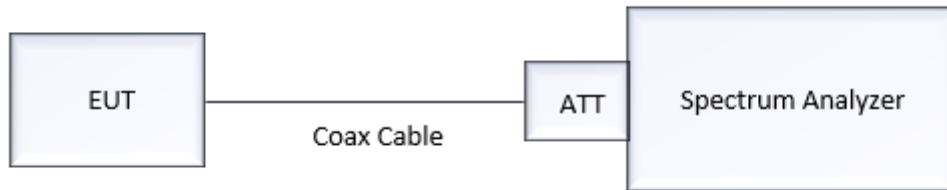
- 1) Setup EUT to transmit at the maximum power at the channel to be tested.
- 2) Set the spectrum analyzer as follow :
 - RBW: 300 KHz / VBW:300 KHz
 - Sweep Time : Auto
 - Sweep Mode: Continuous sweep
 - Detect Mode: Positive Peak
 - Trace Mode: Max hold.
- 3) The power in a +/- 9MHz band centered at the operating frequency is measured and used as a reference value. The powers in the adjacent channels (+/-20MHz from the operating channel) are measured and check if the peak is at least 25 dB lower from the reference value measure within +/- 9MHz band. The same method is applied for the outer adjacent channels +/- 40 MHz and the result shall be at least 40 dB lower than the reference value.

LIMIT

Items	Limits	
Adjacent Channel Leakage Power	± 20 MHz from the operating channel	≤ 25 dBc
	± 40 MHz from the operating channel	≤ 40 dBc

5.8 Transmission Burst Length

TEST SETUP



TEST PROCEDURE

- 1) Setup EUT in continuous reception mode at the channel to be test.
- 2) Set the spectrum analyzer as follow :
 - RBW: 1 MHz / VBW: 1 MHz
 - Span : Zero Span
- 3) Configure the EUT to transmit with maximum length packet.

LIMIT

Items	Limits
Transmission Burst Length	≤ 4 ms

5.9 Radio Interference Prevention Function

TEST SETUP

N/A

LIMIT

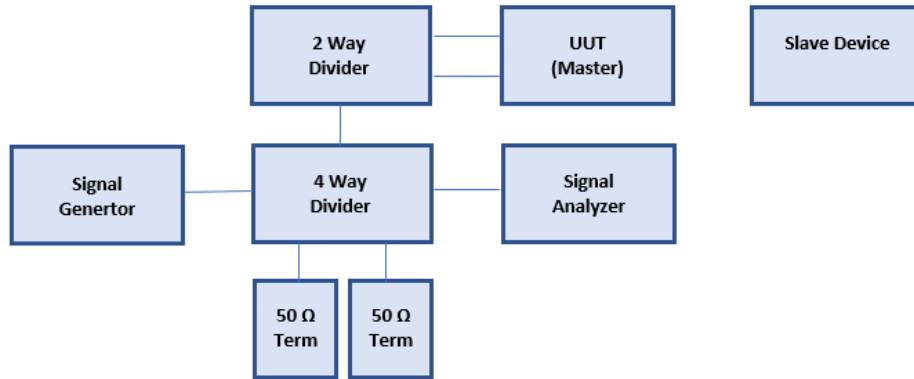
The radio equipment connected to telecommunication circuit equipment shall be equipped with a device which detects emissions radiated from another radio station and prevents interference, or a device which prevents interference by operation on a receive signal and a signal for diffusion for signal level detection.

TEST PROCEDURE

- 1) In the case that the EUT has the function of automatically transmitting the identification code:
 - Transmit the predetermined identification codes from EUT.
 - Check the transmitted identification codes with the demodulator.
- 2) In the case of receiving the identification code:
 - Transmit the predetermined identification codes from the counterpart.
 - Check if communication is normal.
 - Transmit the signals other than predetermined ID codes from the counterpart.
 - Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

5.10 Carrier Sense Function

TEST SETUP



LIMIT

Item	Limits
Carrier Sense	EUT shall not transmit any radio wave when carrier wave signal is applied

Level : 100 mV/m

TEST PROCEDURE

- 1) The device is configured in normal operating mode, linked with an accessory.
- 2) Once the communications link is established the signal, signal generator is configured to apply CW signal to the center frequency of the operating channel.
- 3) Increase the level of the signal generator from the level approximately 30dB lower than the required carrier sense detection threshold (calculated based on the lowest antenna gain to be used with the device) until the EUT stops transmitting and that level should be recorded as the carrier sense detection threshold.

6. TEST RESULT

Frequency Band W52, W53 (20 MHz)
 Occupied Bandwidth ≤ 19 MHz

Voltage		V	Limit	DC 56.0 V			DC 61.6 V			DC 50.4 V			Note
Test Frequency		MHz		5180	5240	5260	5320	5180	5240	5260	5320		
Frequency error(measured frequency)			MHz	5179.965		5259.965	5319.964	5179.965		5259.965	5319.964	5179.965	
Frequency tolerance		20	ppm	-6.69	-	-6.71	-6.72	-6.72	-	-6.73	-6.76	-6.71	-
Occupied band	802.11 a	MHz	19	16.52		16.51	16.53	16.53		16.52	16.50	16.51	
	802.11 n	MHz	19	17.73		17.72	17.72	17.73		17.74	17.73	17.72	
	802.11 ac	MHz	19	17.65		17.65	17.65	17.65		17.65	17.65	17.66	
	802.11 ax	MHz	19	18.97		18.97	18.97	18.98		18.96	18.97	18.97	
Spurious	30 ~ 1000	MHz	-	MHz	906.97	787.39	605.46	837.20		847.90	877.13	907.80	
			-	μW	2.5	0.010	0.010	0.008	0.009	0.008	0.013	0.010	
	30 ~ 1000	MHz	-	MHz	893.39	786.57	860.66	844.82		442.24	905.53	893.18	
			-	μW	2.5	0.009	0.009	0.009	0.009	0.010	0.008	0.010	
	*summation		-	μW	2.5	0.019	0.017	0.018	0.019	0.021	0.020	0.020	
	1 ~ 5.135	GHz	-	MHz	5108.53	5115.52	5030.61	4912.74		5128.01	4902.25	4943.71	
			-	μW	2.5	0.035	0.031	0.037	0.033	0.029	0.031	0.028	
	1 ~ 5.135	GHz	-	MHz	5115.52	4920.73	5110.53	4987.66		5124.01	5034.11	5099.04	
			-	μW	2.5	0.038	0.029	0.048	0.032	0.038	0.030	0.031	
	*summation		-	μW	2.5	0.073	0.061	0.085	0.065	0.067	0.061	0.058	
	5.365 ~ 26	GHz	-	MHz	25687.38	25533.65	25636.82	25599.68		25632.70	25643.01	25664.68	
			-	μW	2.5	0.651	0.550	0.550	0.563	0.741	0.559	0.670	
	5.365 ~ 26	GHz	-	MHz	25613.09	25693.57	25648.17	25625.47		25687.38	25081.74	25611.03	
			-	μW	2.5	0.570	0.592	0.592	0.708	0.623	0.605	0.650	
	*summation		-	μW	2.5	1.221	1.142	1.142	1.271	1.365	1.164	1.320	
Out-band power 18MHz < OBW <= 19MHz	5.135 ~ 5.142	GHz	-	MHz	5140.50			5140.03				5140.07	
			-	μW/MHz				0.216				0.221	
	5.135 ~ 5.142	GHz	-	MHz	5139.24			5139.85				5141.75	
			-	μW/MHz				0.242				0.243	
	*summation		-	μW/MHz				0.4576				0.4640	
	*summation(EIRP)		-	μW/MHz				0.882				0.8944	
	5.142 ~ 5.15	GHz	-	spec	2.5			2.5				2.5	
	5.142 ~ 5.15	GHz	-	MHz	5149.19			5142.05				5142.46	
			-	μW/MHz				0.4054				0.2329	
	5.142 ~ 5.15	GHz	-	MHz	5146.71			5148.01				5148.94	
			-	μW/MHz				0.3198				0.2491	
	*summation		-	μW/MHz				0.7252				0.4820	
	*summation(EIRP)		-	μW/MHz				1.3978				0.9291	
			-	spec	15			15				15	
Out-band power 18MHz < OBW <= 19MHz	5.25 ~ 5.251	GHz	-	MHz		5250.00			5250.00			5250.00	
			-	mW/MHz		0.01398			0.01753			0.01576	
	5.25 ~ 5.251	GHz	-	MHz		5250.01			5250.00			5250.00	
			-	mW/MHz		0.20840			0.20628			0.20588	
	*summation		-	mW/MHz		0.22238			0.22381			0.22165	
	*summation(EIRP)		-	mW/MHz		0.42860			0.43140			0.42720	
			-	spec		0.99083			0.99770			1.00000	
	5.251 ~ 5.26	GHz	-	MHz		5251.01			5251.01			5251.03	
			-	mW/MHz		0.00147			0.00151			0.00129	
	5.251 ~ 5.26	GHz	-	MHz		5251.00			5251.00			5251.00	
			-	mW/MHz		0.00144			0.00102			0.00110	
	*summation		-	mW/MHz		0.00291			0.00253			0.00239	
	*summation(EIRP)		-	mW/MHz		0.00561			0.00489			0.00461	
			-	spec		0.09982			0.09982			0.09945	
	5.26 ~ 5.267	GHz	-	MHz		5261.72			5260.22			5260.74	
			-	mW/MHz		0.00001			0.00001			0.00001	
	5.26 ~ 5.267	GHz	-	MHz		5260.28			5260.01			5260.33	
			-	mW/MHz		0.00001			0.00001			0.00001	
	*summation		-	mW/MHz		0.00002			0.00002			0.00002	
	*summation(EIRP)		-	mW/MHz		0.00004			0.00005			0.00004	
			-	spec		0.00985			0.01491			0.01290	
	5.267 ~ 5.365	GHz	-	MHz		5266.90			5266.70			5266.70	
			-	μW/MHz		0.00001			0.00001			0.00001	
	5.267 ~ 5.365	GHz	-	MHz		5266.90			5266.90			5266.70	
			-	μW/MHz		0.00001			0.00001			0.00002	
	*summation		-	μW/MHz		0.00003			0.00003			0.00003	
	*summation(EIRP)		-	μW/MHz		0.00010			0.00010			0.00010	
			-	spec		2.50000			2.50000			2.50000	

Out band power 18MHz < OBW <19MHz	5.135	~	5.233	GHz	-	MHz				5233.20					5233.51					5233.30			Ant1
	5.135	~	5.233	GHz	-	MHz				0.00001					0.00001					0.00001	-		Ant2
					μW/MHz					5233.20					5233.30					5233.91			
					μW/MHz					0.00001					0.00001					0.00001	-		
	*summation				μW/MHz	2.5	-	-	-	0.00003	-	-	-	-	0.00003	-	-	-	-	0.00003	-		Sum
	*summation(EIRP)				μW/MHz	2.5	-	-	-	0.00010	-	-	-	-	0.00010	-	-	-	-	0.00010	-		Limit
	5.233	~	5.24	GHz	-	MHz				5239.91					5239.89					5239.81			Ant1
	5.233	~	5.24	GHz	-	MHz				0.00001					0.00001					0.00001	-		Ant2
					mW/MHz					5239.83					5239.97					5239.95			
					mW/MHz					0.00001					0.00002					0.00001	-		Sum
	*summation				mW/MHz					0.00003	-	-	-	-	0.00003	-	-	-	-	0.00002	-		Sum
	*summation(EIRP)				mW/MHz					0.00005	-	-	-	-	0.00005	-	-	-	-	0.00005	-		Limit
					spec					0.01547					0.01539					0.01502	-		Limit
	5.24	~	5.249	GHz	-	MHz				5249.00					5249.00					5249.00			Ant1
	5.24	~	5.249	GHz	-	MHz				0.00168					0.00121					0.00134	-		Ant2
					mW/MHz					5248.97					5248.98					5249.00			Sum
					mW/MHz					0.00106					0.00111					0.00159	-		Limit
	*summation				mW/MHz					0.00275	-	-	-	-	0.00232	-	-	-	-	0.00293	-		Sum
	*summation(EIRP)				mW/MHz					0.00530	-	-	-	-	0.00448	-	-	-	-	0.00564	-		Limit
					spec					0.10000					0.10000					0.10000	-		Limit
Out band power 18MHz < OBW <19MHz	5.249	~	5.25	GHz	-	MHz				5250.00					5249.98					5250.00			Ant1
	5.249	~	5.25	GHz	-	MHz				0.24006					0.21575					0.23881	-		Ant2
					mW/MHz					5249.99					5250.00					5249.94			Sum
					mW/MHz					0.23628					0.23853					0.20649	-		Limit
	*summation				mW/MHz					0.23048	-	-	-	-	0.45428	-	-	-	-	0.44530	-		Sum
	*summation(EIRP)				mW/MHz					0.44426	-	-	-	-	0.87563	-	-	-	-	0.85832	-		Limit
					spec					0.99770					0.95940					1.00000	-		Limit
	5.35	~	5.365	GHz	-	MHz				5350.23					5350.09					5350.06			Ant1
	5.35	~	5.365	GHz	-	MHz				0.41512					0.36796					0.51993			Ant2
					μW/MHz					5350.27					5350.18					5350.00			Sum
					μW/MHz					0.43352					0.43637					0.42732			Limit
	*summation				μW/MHz	2.5	-	-	-	0.84864	-	-	-	-	0.80433	-	-	-	-	0.94725	-		Sum
	*summation(EIRP)				μW/MHz	2.5	-	-	-	1.63580	-	-	-	-	1.55040	-	-	-	-	1.82580	-		Limit
					spec					2.50000					2.50000					2.50000	-		Limit
adjacent leakage channel power	20MHz detuning				dBc	25	39.82			41.08	42.14	39.93		41.46	41.84	40.19			41.33	41.75			
	-20MHz detuning				dBc	25	40.33			41.79	41.41	39.99		41.36	41.87	40.20			42.12	41.60			
	40MHz detuning				dBc	40	49.42			50.15	50.00	49.33		49.97	49.95	49.29			49.98	49.95			
	-40MHz detuning				dBc	40	49.44			49.98	50.09	49.41		49.83	50.00	49.49			49.85	50.05			
Max Antenna power					mW/MHz	10	4.468			4.436	4.278	4.511		4.420	4.260	4.496			4.432	4.266			
deviation					%	-80	-55.32			-55.64	-57.22	-54.89		-55.80	-57.40	-55.04			-55.68	-57.34			
Radiation from receiver	(measured frequency)				-	MHz	965.55			431.57	903.40	888.99		918.05	692.83	729.94			548.48	955.15			Ant1
	30 ~ 1000	MHz	nW/100MHz	4	0.0007		0.0007	0.0008	0.0006		0.0007	0.0007	0.0006		0.0007	0.0007	0.0006		0.0007	0.0007			Ant2
	(measured frequency)				-	MHz	863.09			932.50	527.23	978.40		843.24	898.19	832.24			205.71	997.05			Sum
	30 ~ 1000	MHz	nW/100MHz	4	0.0007		0.0006	0.0006	0.0006		0.0009	0.0007	0.0009		0.0009	0.0007	0.0009		0.0007	0.0007			Sum
	*summation				nW/100MHz	4	0.0014			0.0014	0.0014	0.0013		0.0016	0.0014	0.0015			0.0014	0.0014			Sum
	(measured frequency)				-	MHz	25673.75			25622.50	25657.50	25635.00		25708.75	25068.75	25082.50			2412.50	2411.25			Ant1
	1 ~ 26	GHz	nW/MHz	20	0.154		0.182	0.169	0.165		0.153	0.140	0.151		0.153	0.140	0.151		0.182	0.147			Ant2
	(measured frequency)				-	MHz	25647.50			25637.50	5182.50	25657.50		25627.50	25648.75	25627.50			2411.25	25666.25			Sum
	1 ~ 26	GHz	nW/MHz	20	0.180		0.207	0.146	0.158		0.158	0.146	0.158		0.158	0.146	0.158		0.152	0.175			Sum
	*summation				nW/MHz	20	0.3346			0.3890	0.3149	0.3229		0.3116	0.2851	0.3096			0.3338	0.3219			Sum
Tx burst length					ms	4								2.062									
E.I.R.P.					mW/MHz	10	8.612			8.551	8.246	8.696		8.519	8.212	8.667			8.544	8.223			Limit
Interference Protection (Device ID)					yes																		
Carrier Sense 1					yes																		
DFS					yes																		
TPC					yes																		
Each Modulation Antenna power	802.11 a (Duty Ratio : 0.951)	mW/MHz	10			2.083			2.059	2.127	2.115			2.045	2.116	2.102			2.056	2.119			Ant1
						2.166			2.160	1.941	2.175			2.158	1.936	2.174			2.159	1.939			Ant2
						4.249			4.219	4.068	4.290			4.203	4.052	4.276			4.215	4.057			Sum
						4.468			4.436	4.278	4.511			4.420	4.260	4.496			4.432	4.266			Sum/Duty
	802.11 n (Duty Ratio : 0.952)	mW/MHz	10			1.912			1.896	1.951	1.912			1.892	1.946	1.908			1.885	1.952			Ant1
						2.034			2.006	1.805	2.042			2.010	1.792	2.048			2.005	1.795			Ant2
						3.946			3.902	3.756	3.954			3.902	3.738	3.956			3.890	3.747			Sum
						4.145			4.099	3.945	4.153			4.099	3.927	4.155			4.086	3.936			Sum/Duty
	802.11 ac (Duty Ratio : 0.987)	mW/MHz	10			1.892			1.872	1.919	1.889			1.855	1.920	1.893			1.865	1.917			Ant1
						1.977			2.060	1.848	1.963			2.037	1.851	1.971			2.054	1.832			Ant2
						3.868			3.932	3.767	3.852			3.892	3.771	3.864			3.919	3.749			Sum
						3.919			3.984	3.816	3.903			3.943	3.820	3.914			3.970	3.798			Sum/Duty
	802.11 ax (Duty Ratio : 0.979)	mW/MHz	10			2.038			2.033	1.986	2.046			2.025	1.969	2.033			2.020	1.973			Ant1
						2.078			2.153	1.881	2.062			2.141	1.893	2.057			2.146	1.889			Ant2
						4.116			4.186	3.867	4.108			4.166	3.862	4.090			4.166	3.863			Sum
						4.204			4.276	3.950	4.196			4.255	3.945	4.178			4.256	3.945			Sum/Duty

Note. The Max antenna power and Max EIRP modulation is 802.11 a Mode.

Frequency Band

W56 (20 MHz)

Occupied Bandwidth

OBW ≤ 19.7 MHz

Voltage					V	Limit	DC 56.0 V			DC 61.6 V			DC 50.4 V			Note
Test Frequency					MHz		5500	5600	5700	5500	5600	5700	5500	5600	5700	
Frequency error(measured frequency)					MHz		5499.963	5599.962	5699.961	5499.963	5599.962	5699.961	5499.963	5599.962	5699.961	
Frequency tolerance					20	ppm	-6.755	-6.750	-6.850	-6.782	-6.773	-6.856	-6.773	-6.764	-6.854	
OBW	802.11 a				MHz	19.7	16.51	16.56	16.53	16.52	16.55	16.53	16.53	16.54	16.53	
	802.11 n				MHz	19.7	17.72	17.75	17.73	17.72	17.74	17.73	17.73	17.76	17.72	
	802.11 ac				MHz	19.7	17.64	17.65	17.66	17.64	17.65	17.65	17.64	17.65	17.64	
	802.11 ax				MHz	19.7	18.97	18.99	18.98	18.98	18.99	18.99	18.98	18.99	18.99	
Spurious	30	~	1000	MHz	-	MHz	950.81	966.25	860.46	929.82	930.85	849.14	914.59	912.12	888.86	ANT1
					μW	2.5	0.010	0.011	0.008	0.009	0.008	0.011	0.010	0.009	0.009	
	30	~	1000	MHz	-	MHz	678.93	874.87	785.95	696.22	919.53	881.04	890.92	862.52	941.96	ANT2
					μW	2.5	0.009	0.009	0.009	0.008	0.010	0.011	0.009	0.010	0.008	
	*summation				μW	2.5	0.019	0.020	0.017	0.017	0.018	0.022	0.019	0.019	0.017	SUM
	1	~	5.455	GHz	-	MHz	5399.99	5199.47	5365.49	5439.50	5301.98	5355.49	5450.50	5311.98	5442.50	ANT1
					μW	2.5	0.045	0.034	0.040	0.039	0.046	0.037	0.049	0.038	0.040	
	1	~	5.455	GHz	-	MHz	5454.00	5272.48	5009.45	5451.50	5203.97	5404.99	5451.50	5219.47	5451.50	ANT2
					μW	2.5	0.045	0.035	0.036	0.062	0.036	0.034	0.060	0.035	0.034	
	*summation				μW	2.5	0.090	0.069	0.076	0.100	0.082	0.071	0.109	0.074	0.074	SUM
	5.745	~	26	GHz	-	MHz	25751.88	25660.73	25700.23	25669.84	25632.37	25649.59	25643.51	25670.86	25643.51	ANT1
					μW	2.5	0.570	0.675	0.615	0.637	0.631	0.600	0.671	0.568	0.517	
	5.745	~	26	GHz	-	MHz	25633.38	25694.15	25708.33	25634.40	25683.01	25010.54	25702.25	25641.49	25655.67	ANT2
					μW	2.5	0.581	0.612	0.622	0.583	0.714	0.516	0.640	0.662	0.625	
	*summation				μW	2.5	1.151	1.287	1.237	1.221	1.345	1.117	1.311	1.230	1.143	SUM
out-band power	5.455	~	5.46	GHz	-	MHz	5457.94	5457.39	5458.22	5455.01	5455.93	5457.45	5459.81	5459.21	5457.24	ANT1
					μW/MHz	2.5	0.314	0.169	0.163	0.458	0.146	0.191	0.459	0.165	0.173	
	5.455	~	5.46	GHz	-	MHz	5459.08	5455.64	5455.84	5459.55	5458.37	5456.60	5459.79	5455.96	5455.35	ANT2
					μW/MHz	2.5	0.213	0.150	0.188	0.233	0.155	0.181	0.237	0.170	0.172	
	*summation				μW/MHz	2.5	0.527	0.319	0.350	0.690	0.301	0.371	0.696	0.336	0.345	SUM
	*summation(EIRP)				μW/MHz	2.5	1.015	0.614	0.675	1.330	0.580	0.716	1.342	0.647	0.666	eirp
	5.46	~	5.47	GHz	-	MHz	5469.48	5461.94	5462.84	5468.73	5463.85	5464.90	5469.88	5464.59	5468.10	ANT1
					μW/MHz	12.5	1.368	0.175	0.180	1.306	0.168	0.165	1.261	0.172	0.171	
	5.46	~	5.47	GHz	-	MHz	5468.17	5461.02	5468.55	5468.14	5465.50	5468.84	5467.97	5465.83	5463.63	ANT2
					μW/MHz	12.5	0.772	0.158	0.192	0.980	0.164	0.200	0.807	0.166	0.165	
	*summation				μW/MHz	12.5	2.141	0.334	0.371	2.287	0.332	0.365	2.067	0.339	0.336	SUM
	*summation(EIRP)				μW/MHz	12.5	4.126	0.643	0.716	4.408	0.640	0.704	3.984	0.653	0.648	eirp
	5.725	~	5.74	GHz	-	MHz	5730.34	5739.45	5725.54	5731.92	5739.45	5725.59	5729.64	5730.49	5725.65	ANT1
					μW/MHz	12.5	0.012	0.011	0.031	0.012	0.012	0.033	0.012	0.012	0.036	
	5.725	~	5.74	GHz	-	MHz	5728.26	5736.18	5725.00	5734.09	5730.16	5725.89	5737.92	5729.23	5725.44	ANT2
				μW/MHz	12.5	0.011	0.011	0.069	0.012	0.012	0.053	0.012	0.012	0.060		
*summation				μW/MHz	12.5	0.023	0.022	0.100	0.023	0.024	0.086	0.024	0.024	0.096	SUM	
*summation(EIRP)				μW/MHz	12.5	0.045	0.043	0.192	0.045	0.046	0.166	0.046	0.045	0.185	eirp	
5.74	~	5.745	GHz	-	MHz	5742.80	5740.79	5740.45	5744.58	5742.65	5740.90	5741.44	5743.51	5740.04	ANT1	
				μW/MHz	12.5	0.208	0.194	0.501	0.181	0.200	0.429	0.175	0.198	0.483		
5.74	~	5.745	GHz	-	MHz	5741.68	5742.42	5741.81	5740.84	5744.61	5740.26	5742.93	5743.52	5742.65	ANT2	
				μW/MHz	12.5	0.197	0.204	0.571	0.166	0.198	0.639	0.173	0.178	0.855		
*summation				μW/MHz	12.5	0.405	0.399	1.072	0.347	0.398	1.069	0.348	0.376	1.339	SUM	
*summation(EIRP)				μW/MHz	12.5	0.780	0.769	2.066	0.669	0.768	2.060	0.672	0.725	2.580	eirp	
adjacent	20MHz detuning				dBc	25	37.11	35.65	33.75	37.07	36.04	33.65	36.66	35.41	33.45	
leakage	-20MHz detuning				dBc	25	38.21	36.32	33.99	37.65	36.43	34.03	38.24	36.78	34.00	
channel	40MHz detuning				dBc	40	49.77	50.11	49.60	49.99	50.14	49.58	49.85	50.18	49.38	
power	-40MHz detuning				dBc	40	50.51	50.63	49.61	50.81	50.71	49.59	50.55	50.48	49.58	
Max Antenna power					mW/MHz	10.0	5.681	6.051	6.177	5.796	6.096	6.193	5.661	6.077	6.216	
deviation					%	-50	-43.19	-39.49	-38.23	-42.04	-39.04	-38.07	-43.39	-39.23	-37.84	
					50											
Radiati on from receiver	(measured frequency)				-	MHz	717.49	833.99	981.70	449.27	776.59	878.49	988.15	819.84	856.19	ANT1
	30	~	1000	MHz	nW/100kHz	4	0.0007	0.0007	0.0007	0.0007	0.0006	0.0007	0.0007	0.0015	0.0008	
	(measured frequency)				-	MHz	387.17	412.22	456.62	910.05	629.13	911.70	925.80	792.09	873.69	ANT2
	30	~	1000	MHz	nW/100kHz	4	0.0006	0.0006	0.0007	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	
	*summation				nW/100kHz	4	0.0012	0.0013	0.0014	0.0013	0.0013	0.0015	0.0014	0.0023	0.0016	SUM
	(measured frequency)				-	MHz	25746.25	25607.50	2411.25	25650.00	25706.25	2411.25	25168.75	25693.75	25106.25	ANT1
	1000	~	26000	MHz	nW/MHz	20	0.1444	0.1602	0.1857	0.1463	0.1406	0.1746	0.1269	0.1603	0.1631	
	(measured frequency)				-	MHz	24456.25	2412.50	25680.00	25635.00	2411.25	25705.00	2412.50	25065.00	25693.75	ANT2
	1000	~	26000	MHz	nW/MHz	20	0.1539	0.1503	0.1747	0.1381	0.1728	0.1492	0.1601	0.1769	0.1541	
*summation				nW/MHz	20	0.2983	0.3105	0.3604	0.2844	0.3134	0.3238	0.2871	0.3372	0.3171	SUM	
Tx burst length					ms	4					2.062					
E.I.R.P.					mW/MHz	50	10.951	11.664	11.905	11.172	11.750	11.936	10.912	11.714	11.982	eirp
Interference Protection (Deveice ID)					yes					Complies						
Carrier Sense1 (Detect level)					dBm	N/A										
Carrier Sense2(DFS)					yes											

Each Modulation Antenna power	802.11 a (Duty Ratio : 0.9509)	mW/MHz	10.0	2.359	3.044	3.201	2.488	3.057	3.212	2.351	3.041	3.230	Ant1
				3.043	2.711	2.672	3.023	2.740	2.677	3.032	2.738	2.682	Ant2
				5.402	5.754	5.873	5.511	5.797	5.889	5.383	5.779	5.911	Sum
				5.681	6.051	6.177	5.796	6.096	6.193	5.661	6.077	6.216	Sum/Duty
	802.11 n (Duty Ratio : 0.9525)	mW/MHz	10.0	2.204	2.795	2.964	2.187	2.758	2.977	2.193	2.792	2.981	Ant1
				2.833	2.567	2.499	2.821	2.546	2.498	2.831	2.562	2.498	Ant2
				5.037	5.362	5.463	5.008	5.304	5.475	5.024	5.354	5.479	Sum
				5.289	5.629	5.735	5.258	5.569	5.748	5.274	5.621	5.752	Sum/Duty
	802.11 ac (Duty Ratio : 0.9867)	mW/MHz	10.0	2.267	2.754	2.951	2.273	2.735	2.939	2.263	2.754	2.931	Ant1
				2.866	2.579	2.541	2.858	2.566	2.545	2.867	2.567	2.534	Ant2
				5.132	5.333	5.492	5.132	5.302	5.483	5.130	5.321	5.465	Sum
				5.201	5.405	5.566	5.201	5.373	5.557	5.199	5.393	5.538	Sum/Duty
	802.11 ax (Duty Ratio : 0.9787)	mW/MHz	10.0	2.365	2.877	3.136	2.373	2.854	3.130	2.369	2.868	3.130	Ant1
				2.913	2.693	2.606	2.925	2.675	2.597	2.902	2.697	2.613	Ant2
				5.278	5.570	5.742	5.298	5.529	5.727	5.271	5.565	5.743	Sum
				5.393	5.691	5.867	5.414	5.649	5.851	5.385	5.686	5.868	Sum/Duty

Note. The Max antenna power and Max EIRP modulation is 802.11 a Mode.

Frequency Band W52, W53 (40 MHz)
Occupied Bandwidth 19 < OBW ≤ 38 MHz

Voltage				V	Limit	DC 56.0 V				DC 61.6 V				DC 50.4 V				Note		
Test Frequency				MHz		5190	5230	5270	5310	5190	5230	5270	5310	5190	5230	5270	5310			
Frequency error(measured frequency)				MHz		5189.965		5269.963	5309.961	5189.965		5269.963	5309.961	5189.965		5269.963	5309.961			
Frequency tolerance				20	ppm	-6.67	-	-7.03	-7.33	-6.82	-	-7.10	-7.37	-6.75	-	-7.07	-7.35			
OBW	802.11 n HT40			MHz	38	36.19		36.18	36.17	36.18		36.18	36.16	36.17		36.18	36.17			
	802.11 ac VHT40			MHz	38	36.06		36.07	36.06	36.08		36.06	36.06	36.07		36.09	36.05			
	802.11 ax HE40			MHz	38	37.48		37.47	37.49	37.48		37.48	37.46	37.46		37.46	37.50			
	30	~	1000	MHz	-	MHz	900.18		945.87	865.19	801.39		795.42	982.92	900.18		831.64	897.71	ANT1	
				μW		2.5	0.009		0.008	0.009	0.011		0.009	0.009	0.008		0.010	0.010		
	30	~	1000	MHz	-	MHz	949.16		861.69	803.24	894.42		901.21	949.78	457.89		881.45	833.09	ANT2	
				μW		2.5	0.009		0.008	0.010	0.009		0.008	0.009	0.009		0.008	0.008		
	*summation				μW	2.5	0.018	-	0.016	0.019	0.019	-	0.017	0.017	0.017	-	0.019	0.018	Sum	
Spurious	1	~	5.1	GHz	-	MHz	5050.99		5030.49	5048.99	5084.00		5085.50	5099.00	5088.50		5099.50	5024.49	ANT1	
				μW		2.5	0.034		0.026	0.035	0.037		0.030	0.026	0.034		0.028	0.031		
	1	~	5.1	GHz	-	MHz	5084.50		5032.99	5075.50	5093.00		5083.00	5066.50	5090.50		5022.49	5047.49	ANT2	
				μW		2.5	0.042		0.027	0.032	0.036		0.044	0.032	0.031		0.031	0.029		
	*summation				μW	2.5	0.076	-	0.054	0.067	0.073	-	0.074	0.058	0.065	-	0.059	0.059	Sum	
	5.4	~	26	GHz	-	MHz	25113.17		25109.05	25152.31	25724.99		25659.07	25669.37	25600.36		25157.46	25136.86	ANT1	
				μW		2.5	0.284		0.313	0.251	0.225		0.239	0.233	0.240		0.257	0.242		
	5.4	~	26	GHz	-	MHz	24466.33		25734.26	25806.36	25673.49		25117.29	25183.21	25675.55		25171.88	25672.46	ANT2	
				μW		2.5	0.191		0.217	0.238	0.214		0.210	0.180	0.206		0.229	0.214		
	*summation				μW	2.5	0.475	-	0.531	0.489	0.438	-	0.448	0.414	0.445	-	0.486	0.457	Sum	
	out-band power	5.1	~	5.142	GHz	-	MHz	5138.73				5135.24				5138.02				ANT1
					μW/MHz			0.13708				0.13517				0.16124	-			
5.1		~	5.142	GHz	-	MHz	5140.89				5138.98				5138.85				ANT2	
				μW/MHz			0.36178				0.25728				0.27238	-				
*summation				μW/MHz		0.49886				0.39245				0.43362				Sum		
*summation(EIRP)				μW/MHz		0.96200				0.75600				0.83600				eirp		
				spec			2.50000	-		-	2.50000	-	-	-	2.50000	-	-	-		
5.142		~	5.15	GHz	-	MHz	5150.00				5147.40				5148.87				ANT1	
				μW/MHz			0.38797				0.42287				0.44301	-				
5.142		~	5.15	GHz	-	MHz	5149.70				5144.88				5149.87				ANT2	
				μW/MHz			1.09630				0.83045				1.00530	-				
*summation				μW/MHz		1.48427				1.25332				1.44831				Sum		
*summation(EIRP)				μW/MHz		2.86100				2.41600				2.79200				eirp		
				spec			15.00000	-		-	15.00000	-	-	-	15.00000	-	-	-		
5.25		~	5.251	GHz	-	MHz	-	5250.02				5250.00				5250.00				ANT1
				mW/MHz			-	0.13429				0.10258				0.10282				
5.25		~	5.251	GHz	-	MHz	-	5250.00				5250.00				5250.00				ANT2
				mW/MHz			-	0.08027				0.08034				0.08071				
*summation				mW/MHz			0.21456				0.18292				0.18353				Sum	
*summation(EIRP)				mW/MHz			0.41357				0.35258				0.35376				eirp	
				spec			-	0.48191	-	-	-	0.49656	-	-	-	0.49885	-	-	-	
5.251		~	5.27	GHz	-	MHz	-	5251.00				5251.00				5251.00				ANT1
				mW/MHz			-	0.00619				0.00562				0.00569				
5.251		~	5.27	GHz	-	MHz	-	5251.00				5251.02				5251.00				ANT2
				mW/MHz			-	0.00638				0.00618				0.00592				
*summation				mW/MHz			0.01257				0.01180				0.01161				Sum	
*ssummation(EIRP)				mW/MHz			0.02422				0.02274				0.02238				eirp	
				spec			-	0.05000	-	-	-	0.05000	-	-	-	0.05000	-	-	-	
5.27		~	5.278	GHz	-	MHz	-	5272.00				5270.26				5270.34				ANT1
				mW/MHz			-	0.00061				0.00058				0.00058				
5.27		~	5.278	GHz	-	MHz	-	5270.56				5274.49				5271.17				ANT2
				mW/MHz			-	0.00152				0.00085				0.00123				
*summation				mW/MHz			0.00213				0.00144				0.00181				Sum	
*summation(EIRP)				mW/MHz			0.00411				0.00277				0.00349				eirp	
			spec			-	0.00601	-	-	-	0.00764	-	-	-	0.00757	-	-	-		
5.278	~	5.4	GHz	-	MHz	-	5280.59				5281.44				5281.68				ANT1	
			μW/MHz			-	0.11601				0.12563				0.12475					
5.278	~	5.4	GHz	-	MHz	-	5280.83				5279.62				5280.83				ANT2	
			μW/MHz			-	0.19954				0.23925				0.31780					
*summation				μW/MHz			0.31555				0.36488				0.44255				Sum	
*summation(EIRP)				μW/MHz			0.60823				0.70332				0.85303				eirp	
			spec			-	2.50000	-	-	-	2.50000	-	-	-	2.50000	-	-	-		

out-band power	5.1	~	5.21	GHz	-	MHz	-	-	5204.50					5189.76				5174.25	-	ANT1
	5.1	~	5.21	GHz	-	MHz	-	-	5207.80					5207.36				5208.90	-	ANT2
					μW/MHz		-	-	0.11821					0.14337				0.11308	-	
	*summation				μW/MHz				0.16750					0.18748				0.16473		Sum
	*summation(EIRP)				μW/MHz				0.32286					0.36137				0.31753		eirp
					spec	-	-	-	2.50000	-	-	-	-	2.50000	-	-	-	2.50000	-	
	5.21	~	5.222	GHz	-	MHz	-	-	5221.30					5220.43				5217.47	-	ANT1
	5.21	~	5.222	GHz	-	MHz	-	-	5221.18					5221.25				5221.38	-	ANT2
					μW/MHz		-	-	0.76262					0.58597				0.73060	-	
	*summation				μW/MHz				1.07167					0.73773				0.91167		Sum
	*summation(EIRP)				μW/MHz				2.06567					1.42199				1.75727		eirp
					spec	-	-	-	2.50000	-	-	-	-	2.50000	-	-	-	2.50000	-	
	5.222	~	5.23	GHz	-	MHz	-	-	5229.48					5227.79				5229.97	-	ANT1
	5.222	~	5.23	GHz	-	MHz	-	-	5227.14					5228.60				5228.40	-	ANT2
					mW/MHz		-	-	0.00116					0.00116				0.00167	-	
	*summation				mW/MHz				0.00156					0.00165				0.00218		Sum
	*summation(EIRP)				mW/MHz				0.00301					0.00317				0.00421		eirp
					spec	-	-	-	0.00737	-	-	-	-	0.00584	-	-	-	0.00789	-	
	5.23	~	5.249	GHz	-	MHz	-	-	5249.00					5248.98				5249.00	-	ANT1
	5.23	~	5.249	GHz	-	MHz	-	-	5246.47					5248.96				5248.53	-	ANT2
					mW/MHz		-	-	0.00591					0.00642				0.00839	-	
	*summation				mW/MHz				0.01323					0.01347				0.01524		Sum
	*summation(EIRP)				mW/MHz				0.02550					0.02597				0.02938		eirp
					spec	-	-	-	0.05000	-	-	-	-	0.04991	-	-	-	0.05000	-	
	5.249	~	5.25	GHz	-	MHz	-	-	5249.98					5249.98				5249.95	-	ANT1
	5.249	~	5.25	GHz	-	MHz	-	-	5249.89					5249.89				5250.00	-	ANT2
					mW/MHz		-	-	0.00560					0.00557				0.01071	-	
	*summation				mW/MHz				0.01337					0.01359				0.01736		Sum
	*summation(EIRP)				mW/MHz				0.02578					0.02620				0.03346		eirp
					spec	-	-	-	0.47860	-	-	-	-	0.47860	-	-	-	0.44154	-	
adjacent leakage channel power	5.35	~	5.358	GHz	-	MHz	-	-	5353.07					5350.89				5350.01		ANT1
	5.35	~	5.358	GHz	-	MHz	-	-	5350.09					5351.96				5350.41		ANT2
					μW/MHz		-	-	1.89700					1.13600				1.38130		
	*summation				μW/MHz				2.29598					1.42117				1.69846		Sum
	*summation(EIRP)				μW/MHz				4.42556					2.73934				3.27382		eirp
					spec	-	-	-	15.00000	-	-	-	-	15.00000	-	-	-	15.00000	-	
	5.358	~	5.4	GHz	-	MHz	-	-	5359.86					5360.52				5359.52		ANT1
	5.358	~	5.4	GHz	-	MHz	-	-	5362.14					5366.30				5358.61		ANT2
					μW/MHz		-	-	0.53147					0.30195				0.31878		
	*summation				μW/MHz				0.69816					0.42622				0.47937		Sum
	*summation(EIRP)				μW/MHz				1.34572					0.82155				0.92400		eirp
					spec	-	-	-	2.50000	-	-	-	-	2.50000	-	-	-	2.50000	-	
	40MHz detuning				dBc	25	40.87		42.86	43.21	41.25			42.73	43.24	41.14		43.07	43.30	
	-40MHz detuning				dBc	25	40.62		41.85	42.21	40.33			41.56	42.13	40.41		41.66	42.14	
	80MHz detuning				dBc	40	52.92		53.70	53.78	52.90			53.72	53.81	52.97		53.71	53.73	
	-80MHz detuning				dBc	40	53.29		54.22	54.18	53.34			54.22	54.08	53.32		54.18	54.17	
	Max Antenna power				mW/MHz	5.00	2.075		2.405	2.321	2.058			2.418	2.327	2.065		2.404	2.323	
	deviation				%	-80	-58.49		-51.90	-53.58	-58.84			-51.63	-53.46	-58.71		-51.92	-53.54	2TX
						20														
Radiation from receiver	(measured frequency)				-	MHz	832.94		802.99	880.34	801.94			506.32	506.32	507.97		865.64	506.92	ANT1
	30 ~ 1000	MHz	nW/100kHz	4	0.0804		0.0006	0.0009	0.0006					0.0006	0.0011	0.0007		0.0006	0.0009	
	(measured frequency)				-	MHz	818.24		507.37	798.24	854.39			799.74	857.99	957.30		987.90	506.27	ANT2
	30 ~ 1000	MHz	nW/100kHz	4	0.0006		0.0009	0.0007	0.0006					0.0006	0.0005	0.0006		0.0006	0.0008	
	*summation				nW/100kHz	4	0.0810	-	0.0015	0.0015	0.0012	-		0.0013	0.0016	0.0012	-	0.0012	0.0016	Sum
	(measured frequency)				-	MHz	25710.00		5181.25	25727.50	25565.00			25150.00	25686.25	25651.25		25715.00	25057.50	ANT1
	1 ~ 26	GHz	nW/MHz	20	0.1043		0.4361	0.1110	0.1051					0.1600	0.1221	0.1090		0.1110	0.1203	
	(measured frequency)				-	MHz	25131.25		25711.25	25683.75	25198.75			25615.00	25678.75	25690.00		25728.75	25110.00	ANT2
	1 ~ 26	GHz	nW/MHz	20	0.1218		0.1196	0.1284	0.1117					0.1084	0.1353	0.1126		0.1092	0.1021	
	*summation				nW/MHz	20	0.2261	-	0.5557	0.2393	0.2168	-		0.2684	0.2574	0.2216	-	0.2201	0.2224	Sum
	Tx burst length				ms	4							0.948							
	E.I.R.P.				mW/MHz	5	4.000		4.636	4.474	3.967			4.662	4.485	3.980		4.634	4.478	eirp
Interference Protection (Device ID)					yes															
Carrier Sense 1 (Detect level)				dBm	yes															
Carrier Sense 2 (DFS)					yes															
TPC					yes															

Each Modulation Antenna power	802.11 n HT40 (Duty Ratio : 0.943)	mW/MHz	5	0.880		0.954	0.921	0.881		0.916	0.900	0.884		0.934	0.909	Ant1
				0.932		1.220	1.153	0.934		1.212	1.153	0.934		1.219	1.154	Ant2
				1.812		2.174	2.074	1.815		2.128	2.053	1.818		2.152	2.063	Sum
				1.921		2.305	2.199	1.924		2.257	2.177	1.928		2.282	2.187	Sum/Dut
	802.11 ac VHT40 (Duty Ratio : 0.9867)	mW/MHz	5	0.891		0.923	0.924	0.873		0.937	0.912	0.885		0.940	0.917	Ant1
				0.959		1.198	1.119	0.953		1.197	1.111	0.951		1.193	1.113	Ant2
				1.850		2.122	2.043	1.827		2.133	2.024	1.835		2.134	2.030	Sum
				1.875		2.150	2.071	1.851		2.162	2.051	1.860		2.162	2.058	Sum/Dut
	802.11 ax HE40 (Duty Ratio : 0.9612)	mW/MHz	5	0.980		1.026	0.999	0.968		1.042	1.014	0.975		1.028	1.005	Ant1
				1.015		1.286	1.232	1.010		1.283	1.223	1.010		1.283	1.228	Ant2
				1.995		2.312	2.231	1.978		2.325	2.237	1.985		2.311	2.233	Sum
				2.075		2.405	2.321	2.058		2.418	2.327	2.065		2.404	2.323	Sum/Dut

Note.The Max antenna power and Max EIRP modulation is 802.11 ax HE40 Mode.

Frequency Band W56 (40 MHz)
Occupied Bandwidth 19.7 < OBW ≤ 38 MHz

Voltage				V	Limit	DC 56.0 V			DC 61.6 V			DC 50.4 V			Note	
Test Frequency				MHz		5510	5590	5670	5510	5590	5670	5510	5590	5670		
Frequency error(measured frequency)					MHz	5509.959	5589.958	5669.957	5509.959	5589.958	5669.957	5509.959	5589.958	5669.957		
Frequency tolerance				20	ppm	-7.43	-7.51	-7.59	-7.46	-7.54	-7.60	-7.44	-7.52	-7.59		
OBW	80.11 n HT40			MHz	38	36.19	36.22	36.21	36.19	36.22	36.23	36.20	36.24	36.21		
	80.11 ac VHT40			MHz	38	36.15	36.19	36.15	36.16	36.16	36.17	36.15	36.16	36.15		
	802.11 ax HE40			MHz	38	37.51	37.54	37.55	37.51	37.56	37.53	37.51	37.57	37.53		
Spurious	30	~	1000	MHz	-	MHz	919.53	976.33	888.86	926.52	866.63	772.78	992.59	894.21	908.62	ANT1
					μW	2.5	0.008	0.008	0.008	0.007	0.008	0.008	0.011	0.008	0.009	
	30	~	1000	MHz	-	MHz	625.21	806.33	525.81	787.60	986.00	805.71	898.95	895.04	486.91	ANT2
					μW	2.5	0.008	0.008	0.009	0.008	0.009	0.009	0.008	0.012	0.009	
	*summation				μW	2.5	0.016	0.015	0.018	0.015	0.016	0.017	0.019	0.020	0.018	SUM
	1	~	5.42	GHz	-	MHz	5415.00	5395.00	5309.49	5390.00	5358.49	5418.00	5414.00	5233.98	5335.99	ANT1
					μW	2.5	0.045	0.030	0.028	0.043	0.030	0.036	0.039	0.038	0.030	
	1	~	5.42	GHz	-	MHz	5406.50	5398.50	5358.99	5405.50	5313.99	5390.50	5408.50	5357.49	5296.49	ANT2
					μW	2.5	0.042	0.037	0.027	0.040	0.033	0.026	0.039	0.037	0.024	
	*summation				μW	2.5	0.087	0.067	0.055	0.082	0.063	0.062	0.078	0.075	0.053	SUM
	5.76	~	26	GHz	-	MHz	25682.23	25717.65	25856.30	24314.01	25299.70	25130.69	25698.42	25027.47	25151.94	ANT1
					μW	2.5	0.200	0.220	0.226	0.220	0.183	0.203	0.208	0.196	0.211	
5.76	~	26	GHz	-	MHz	25761.17	25706.52	25799.62	25685.27	24482.00	25743.96	25784.44	25708.54	25714.62	ANT2	
				μW	2.5	0.220	0.223	0.232	0.200	0.215	0.195	0.226	0.223	0.255		
*summation				μW	2.5	0.420	0.442	0.457	0.420	0.398	0.398	0.434	0.419	0.467	SUM	
-band po	5.42	~	5.46	GHz	-	MHz	5458.64	5454.56	5457.72	5456.88	5455.16	5443.92	5459.64	5452.56	5434.96	ANT1
					μW/MHz	12.5	1.110	0.041	0.042	0.807	0.043	0.037	1.103	0.047	0.037	
	5.42	~	5.46	GHz	-	MHz	5459.40	5439.92	5435.04	5459.92	5458.64	5458.12	5459.24	5450.64	5458.88	ANT2
					μW/MHz	12.5	0.953	0.044	0.040	1.031	0.052	0.042	0.753	0.046	0.036	
	*summation				μW/MHz	12.5	2.063	0.085	0.083	1.838	0.094	0.079	1.857	0.093	0.073	SUM
	*summation(EIRP)				μW/MHz	12.5	3.976	0.164	0.159	3.543	0.182	0.153	3.579	0.179	0.140	eirp
	5.46	~	5.47	GHz	-	MHz	5468.83	5469.36	5464.89	5469.44	5465.30	5464.11	5469.87	5466.87	5468.67	ANT1
					μW/MHz	50	2.803	0.050	0.047	4.638	0.051	0.046	4.658	0.049	0.050	
	5.46	~	5.47	GHz	-	MHz	5464.38	5469.86	5467.09	5468.02	5461.78	5463.01	5468.16	5466.94	5466.28	ANT2
					μW/MHz	50	6.963	0.074	0.037	6.787	0.049	0.038	5.159	0.059	0.043	
	*summation				μW/MHz	50	9.766	0.124	0.085	11.425	0.099	0.084	9.817	0.109	0.093	SUM
	*summation(EIRP)				μW/MHz	50	18.824	0.239	0.164	22.023	0.191	0.162	18.922	0.210	0.179	eirp
adjacent leakage channel power	5.725	~	5.76	GHz	-	MHz	5745.69	5739.98	5726.05	5742.08	5731.20	5737.50	5735.64	5745.55	5731.13	ANT1
					μW/MHz	12.5	0.051	0.048	0.697	0.054	0.054	0.881	0.046	0.051	0.840	
	5.725	~	5.76	GHz	-	MHz	5728.33	5732.98	5726.86	5731.48	5731.30	5728.15	5727.00	5726.33	5725.04	ANT2
					μW/MHz	12.5	0.044	0.048	0.609	0.048	0.045	0.598	0.048	0.055	0.620	
	*summation				μW/MHz	12.5	0.095	0.095	1.306	0.102	0.100	1.479	0.094	0.106	1.460	SUM
	*summation(EIRP)				μW/MHz	12.5	0.183	0.184	2.518	0.197	0.192	2.851	0.182	0.205	2.815	eirp
	40MHz detuning				dBc	25	39.92	39.85	35.83	40.00	40.08	36.03	39.47	39.62	35.75	
	-40MHz detuning				dBc	25	39.81	39.41	35.93	39.88	39.37	36.28	39.61	39.09	35.89	
	80MHz detuning				dBc	40	52.15	52.40	51.44	52.06	52.46	51.43	52.00	52.27	51.38	
	-80MHz detuning				dBc	40	53.28	52.95	51.59	53.40	52.98	51.62	53.24	52.85	51.55	
	Max Antenna power				mW/MHz	5.00	2.842	3.116	3.203	2.851	3.127	3.200	2.858	3.110	3.190	
	deviation				%	-50	-43.16	-37.69	-35.95	-42.98	-37.45	-36.00	-42.84	-37.79	-36.20	2TX
Radiati on from receiver	(measured frequency)			-	MHz	506.52	506.32	506.27	509.22	508.47	506.37	506.32	506.32	853.79	ANT1	
	30	~	1000	MHz	nW/100kHz	4	0.0007	0.0015	0.0009	0.0008	0.0008	0.0008	0.0008	0.0011	0.0008	
	(measured frequency)			-	MHz	727.24	875.19	892.64	901.19	509.07	906.00	987.05	331.32	508.97	ANT2	
	30	~	1000	MHz	nW/100kHz	4	0.0006	0.0007	0.0005	0.0006	0.0006	0.0006	0.0006	0.0007	0.0006	
	*summation				nW/100kHz	4	0.0013	0.0022	0.0014	0.0014	0.0014	0.0013	0.0014	0.0018	0.0013	SUM
	(measured frequency)			-	MHz	24486.25	25680.00	25706.25	25821.25	25168.75	25667.50	25622.50	24450.00	25692.50	ANT1	
	1000	~	26000	MHz	nW/MHz	20	0.1207	0.1152	0.1160	0.1248	0.1034	0.1109	0.1042	0.1001	0.1292	
	(measured frequency)			-	MHz	25116.25	24453.75	25707.50	5183.75	25733.75	24573.75	25141.25	25613.75	25755.00	ANT2	
1000	~	26000	MHz	nW/MHz	20	0.1035	0.1140	0.1051	0.4101	0.1059	0.1207	0.1096	0.1037	0.1428		
*summation				nW/MHz	20	0.2241	0.2291	0.2211	0.5349	0.2093	0.2316	0.2138	0.2037	0.2720	SUM	
Tx burst length				ms	4	0.948										
E.I.R.P.				mW/MHz	25	5.478	6.005	6.173	5.495	6.028	6.168	5.509	5.995	6.148		
Interference Protection (Devoice ID)					yes	Complies										
Carrier Sense 1 (Detect level)				dBm	N/A											
Carrier Sense 2 (DFS)					yes											
TPC					yes											

Each Modulation Antenna power	80.11 n HT40	mW/Mhz	5.00	1.187	1.363	1.535	1.189	1.378	1.534	1.191	1.379	1.533	Ant1
				1.281	1.374	1.271	1.276	1.394	1.275	1.278	1.371	1.274	Ant2
				2.468	2.737	2.806	2.466	2.772	2.810	2.469	2.750	2.807	Sum
				2.727	3.023	3.100	2.724	3.062	3.104	2.727	3.038	3.101	Sum/Duty
	80.11 a c VHT40	mW/Mhz	5.00	1.178	1.373	1.485	1.183	1.365	1.489	1.177	1.358	1.485	Ant1
				1.318	1.417	1.286	1.319	1.412	1.287	1.315	1.416	1.286	Ant2
				2.496	2.789	2.771	2.501	2.778	2.776	2.491	2.773	2.771	Sum
				2.596	2.901	2.882	2.601	2.889	2.887	2.591	2.884	2.881	Sum/Duty
	802.11 a x HE40	mW/Mhz	5.00	1.317	1.522	1.659	1.303	1.516	1.654	1.310	1.521	1.650	Ant1
				1.417	1.475	1.422	1.440	1.492	1.424	1.440	1.471	1.419	Ant2
				2.734	2.997	3.081	2.743	3.009	3.078	2.749	2.992	3.069	Sum
				2.842	3.116	3.203	2.851	3.127	3.200	2.858	3.110	3.190	Sum/Duty

Note. The Max antenna power and Max EIRP modulation is 802.11 ax HE 40 Mode.

Frequency Band W52, W53 (80 MHz)
 Occupied Bandwidth 38 < OBW ≤ 78 MHz

Voltage					V	Limit	DC 56.0 V			DC 61.6 V			DC 50.4 V			Note
Test Frequency					MHz		5210	5290		5210	5290		5210	5290		
Frequency error(measured frequency)						MHz	5209.960	5289.959		5209.960	5289.959		5209.960	5289.959	-	
Frequency tolerance					20	ppm	-7.75	-7.77	-	-7.76	-7.78	-	-7.75	-7.78	-	
OBW	802.11 ac VHT80				MHz	78	75.57	75.59		75.57	75.56		75.58	75.53	-	
	802.11 ax HE80				MHz	78	76.88	76.90		76.89	76.86		76.84	76.78	-	
Spurious	30	~	1000	MHz	-	MHz	872.19	875.28		782.87	631.80		781.84	788.63	-	ANT1
					μW	2.5	0.009	0.009		0.010	0.008		0.009	0.009	-	
	30	~	1000	MHz	-	MHz	806.95	884.13		883.51	561.82		654.85	777.31	-	ANT2
					μW	2.5	0.009	0.010		0.008	0.008		0.009	0.009	-	
	*summation				μW	2.5	0.018	0.019	-	0.018	0.017	-	0.019	0.017	-	Sum
	1	~	5.02	GHz	-	MHz	4894.97	5005.29		4994.50	5009.70		4966.07	4936.16	-	ANT1
					μW	2.5	0.029	0.026		0.029	0.024		0.040	0.020	-	
	1	~	5.02	GHz	-	MHz	5001.37	4956.26		5015.10	4932.73		5004.80	5004.31	-	ANT2
					μW	2.5	0.026	0.023		0.026	0.023		0.028	0.025	-	
	*summation				μW	2.5	0.054	0.049	-	0.055	0.048	-	0.068	0.045	-	Sum
	5.48	~	26	GHz	-	MHz	24534.87	25111.48		25192.54	25697.33		25682.97	25178.17	-	ANT1
					μW	2.5	0.233	0.189		0.209	0.235		0.204	0.196	-	
	5.48	~	26	GHz	-	MHz	25122.77	25203.82		25095.07	25077.63		25124.82	25182.28	-	ANT2
					μW	2.5	0.212	0.199		0.220	0.204		0.177	0.239	-	
	*summation				μW	2.5	0.445	0.388	-	0.429	0.439	-	0.382	0.434	-	Sum
	out-band power	5.02	~	5.1232	GHz	-	MHz	5123.20			5113.40			5117.94	-	-
				μW/MHz		0.103			0.096			0.177		-		
5.02		~	5.1232	GHz	-	MHz	5122.06			5114.84			5119.59	-	-	ANT2
				μW/MHz		0.15148			0.15796			0.21510		-		
*summation				μW/MHz		0.25419			0.25376			0.39173		Sum		
*summation(EIRP)				μW/MHz		0.49000			0.48900			0.75500		eirp		
				spec		2.50000		-	2.50000		-	2.50000		-		
5.1232		~	5.15	GHz	-	MHz	5142.39			5148.26			5139.63	-	-	ANT1
				μW/MHz		0.31800			0.54252			0.33939		-		
5.1232		~	5.15	GHz	-	MHz	5148.28			5142.55			5146.81	-	-	ANT2
				μW/MHz		1.20810			0.93911			0.85630		-		
*summation				μW/MHz		1.52610			1.48163			1.19569		Sum		
*summation(EIRP)				μW/MHz		2.94200			2.85600			2.30500		eirp		
				spec		15.00000		-	15.00000		-	15.00000		-		
5.25		~	5.251	GHz	-	MHz	5250.00			5250.00			5250.00	-	-	ANT1
				mW/MHz		0.00247			0.00255			0.00255		-		
5.25		~	5.251	GHz	-	MHz	5250.05			5250.02			5250.05	-	-	ANT2
				mW/MHz		0.00170			0.00230			0.00200		-		
*summation				mW/MHz		0.00417			0.00485			0.00456		Sum		
*summation(EIRP)				mW/MHz		0.00803			0.00935			0.00878		eirp		
				spec		0.25000		-	0.24885		-	0.25000		-		
5.251		~	5.29	GHz	-	MHz	5251.00			5251.00			5251.00	-	-	ANT1
				mW/MHz		0.00010			0.00010			0.00011		-		
5.251		~	5.29	GHz	-	MHz	5251.04			5251.00			5251.00	-	-	ANT2
				mW/MHz		0.00007			0.00004			0.00006		-		
*summation				mW/MHz		0.00017			0.00014			0.00017		Sum		
*summation(EIRP)				mW/MHz		0.00032			0.00027			0.00032		eirp		
				spec		0.02500		-	0.02500		-	0.02500		-		
5.29		~	5.2967	GHz	-	MHz	5292.71			5293.26			5293.48	-	-	ANT1
				mW/MHz		0.00021			0.00024			0.00027		-		
5.29		~	5.2967	GHz	-	MHz	5290.38			5290.67			5292.51	-	-	ANT2
				mW/MHz		0.00038			0.00037			0.00039		-		
*summation				mW/MHz		0.00058			0.00061			0.00066		Sum		
*summation(EIRP)				mW/MHz		0.00113			0.00118			0.00128		eirp		
				spec		0.00329		-	0.00316		-	0.00312		-		
5.2967	~	5.48	GHz	-	MHz	5323.10			5302.02			5296.88	-	-	ANT1	
				μW/MHz		0.07830			0.09145			0.09426		-		
5.2967	~	5.48	GHz	-	MHz	0.21			0.17			0.23	-	-	ANT2	
				μW/MHz		0.24			0.18			0.18		-		
*summation				μW/MHz		0.31404			0.27401			0.27463		Sum		
*summation(EIRP)				μW/MHz		0.60530			0.52820			0.52940		eirp		
				spec		2.50000		-	2.50000		-	2.50000		-		

out-band power	5.02	~	5.2033	GHz	-	MHz	-	5197.98			5203.30			5199.63	-	ANT1
					μW/MHz			0.06158			0.09093			0.06023	-	
	5.02	~	5.2033	GHz	-	MHz	-	5199.27			5196.52			5202.93	-	
					μW/MHz			0.14399			0.11417			0.11231	-	
	*summation				μW/MHz			0.20557			0.20510			0.17254		Sum
	*summation(EIRP)				μW/MHz			0.39600			0.39500			0.33300		eirp
						spec		2.50000	-		2.50000	-		2.50000	-	
	5.2033	~	5.21	GHz	-	MHz	-	5209.10			5207.88			5208.30	-	ANT1
					mW/MHz			0.00013			0.00012			0.00015	-	
	5.2033	~	5.21	GHz	-	MHz	-	5209.62			5208.95			5208.53	-	
					mW/MHz			0.00029			0.00034			0.00026	-	
	*summation				mW/MHz			0.00043			0.00046			0.00041		Sum
	*summation(EIRP)				mW/MHz			0.00082			0.00089			0.00080		eirp
						spec		0.00372	-		0.00342	-		0.00352	-	
	5.21	~	5.249	GHz	-	MHz	-	5248.96			5249.00			5249.00	-	ANT1
					mW/MHz			0.00004			0.00005			0.00007	-	
	5.21	~	5.249	GHz	-	MHz	-	5249.00			5249.00			5249.00	-	
					mW/MHz			0.00010			0.00009			0.00010	-	
	*summation				mW/MHz			0.00014			0.00014			0.00016		Sum
	*summation(EIRP)				mW/MHz			0.00027			0.00027			0.00031		eirp
						spec		0.02495	-		0.02500	-		0.02500	-	
	5.249	~	5.25	GHz	-	MHz	-	5250.00			5250.00			5250.00	-	ANT1
					mW/MHz			0.00392			0.00415			0.00397	-	
	5.249	~	5.25	GHz	-	MHz	-	5249.98			5249.98			5249.99	-	
					mW/MHz			0.00396			0.00463			0.00456	-	
	*summation				mW/MHz			0.00789			0.00878			0.00853		Sum
	*summation(EIRP)				mW/MHz			0.01520			0.01692			0.01645		eirp
						spec		0.25000	-		0.24943	-		0.25000	-	
	5.35	~	5.3768	GHz	-	MHz	-	5361.98			5352.04			5351.69	-	ANT1
					μW/MHz			0.20261			0.16419			0.22857	-	
	5.35	~	5.3768	GHz	-	MHz	-	5351.21			5351.61			5356.03	-	
					μW/MHz			0.44618			0.53202			0.64905	-	
	*summation				μW/MHz			0.64879			0.69621			0.87762		Sum
	*summation(EIRP)				μW/MHz			1.25056			1.34196			1.69163		eirp
						spec		15.00000	-		15.00000	-		15.00000	-	
	5.3768	~	5.48	GHz	-	MHz	-	5379.59			5378.76			5381.75	-	ANT1
					μW/MHz			0.08681			0.13316			0.08778	-	
	5.3768	~	5.48	GHz	-	MHz	-	5386.91			5383.82			5376.90	-	
					μW/MHz			0.11586			0.12921			0.17563	-	
	*summation				μW/MHz			0.20267			0.26237			0.26341		Sum
	*summation(EIRP)				μW/MHz			0.39060			0.50570			0.50770		eirp
						spec		2.50000	-		2.50000	-		2.50000	-	
ACP	80MHz detuning				dBc	25	34.72	35.23		34.75	35.14		34.77	34.95	-	Sum
	-80MHz detuning				dBc	25	34.02	34.09		34.23	33.94		34.02	34.14	-	
Max Antenna power				mW/MHz	2.50	1.239	1.161		1.234	1.157		1.234	1.160	-		
deviation				%	-80	-50.45	-53.54		-50.65	-53.74		-50.62	-53.62	-		
						20										
Radiation from receiver	(measured frequency)			-	MHz	506.32	506.32		509.52	506.32		506.27	506.32	-	ANT1	
	30	~	1000	MHz	nW/100kHz	4	0.0008	0.0011		0.0007	0.0008		0.0007	0.0009		-
	(measured frequency)			-	MHz	506.32	506.97		506.37	932.65		506.42	805.44	-	ANT2	
	30	~	1000	MHz	nW/100kHz	4	0.0008	0.0008		0.0008	0.0006		0.0011	0.0006		-
	*summation			nW/100kHz	4	0.0016	0.0020		0.0014	0.0014		0.0018	0.0015		Sum	
	(measured frequency)			-	MHz	2402.50	25680.00		24541.25	24436.25		25091.25	25256.25	-	ANT1	
	1000	~	26	GHz	nW/MHz	20	0.1923	0.0993		0.1154	0.1035		0.1228	0.1237		-
	(measured frequency)			-	MHz	25690.00	25185.00		24435.00	25750.00		25646.25	24433.75	-	ANT2	
1000	~	26	GHz	nW/MHz	20	0.1082	0.0982		0.1169	0.1203		0.1131	0.1095	-		
*summation			nW/MHz	20	0.3004	0.1976		0.2323	0.2238		0.2359	0.2333		Sum		
Tx burst length				ms	4	0.459										
E.I.R.P.				mW/MHz	2.5	2.388	2.239		2.378	2.229		2.379	2.235		eirp	
Interference Protection (Deveice ID)					yes	Complies										
Carrier Sense 1 (Detect level)					N/A											
Carrier Sense 2 (DFS)					yes											
TPC					yes											

Each Modulation Antenna power	802.11 a c VHT80 (Duty Ratio : 0.94)	mW/MHz	2.5	0.527	0.503		0.530	0.497		0.525	0.498		Ant1
				0.556	0.524		0.558	0.533		0.558	0.530		Ant2
				1.084	1.027		1.088	1.030		1.083	1.028		Sum
				1.153	1.093		1.157	1.096		1.152	1.094		Sum/Duty
	802.11 ax HE80 (Duty Ratio : 0.9274)	mW/MHz	2.5	0.555	0.521		0.554	0.518		0.556	0.519		Ant1
				0.593	0.556		0.590	0.554		0.589	0.556		Ant2
				1.149	1.077		1.144	1.073		1.145	1.075		Sum
				1.239	1.161		1.234	1.157		1.234	1.160		Sum/Duty

Note. The Max antenna power and Max EIRP modulation is 802.11 ax HE 80 Mode.

Frequency Band W56 (80 MHz)
Occupied Bandwidth $38 < OBW \leq 78 \text{ MHz}$

Voltage				V	Limit	DC 56.0 V			DC 61.6 V			DC 50.4 V			Note		
Test Frequency				MHz		5530	5610		5530	5610		5530	5610				
Frequency error(measured frequency)					MHz	5529.957	5609.956		5529.957	5609.956		5529.957	5609.956		-		
Frequency tolerance				20	ppm	-7.78	-7.79	-	-7.79	-7.79	-	-7.78	-7.79	-			
OBW	802.11 a c VHT80			MHz	78	75.63	75.59		75.64	75.58		75.62	75.57		-		
	802.11 ax HE80			MHz	78	76.91	76.91		76.92	76.88		76.93	76.92		-		
Spurious	30	~	1000	MHz	-	MHz	482.38	891.12		937.23	940.31		956.16	861.28		ant1	
					μW	2.5	0.008	0.010		0.010	0.009		0.012	0.009		-	
	30	~	1000	MHz	-	MHz	746.85	906.56		515.72	750.55		875.28	849.34		ant2	
					μW	2.5	0.007	0.008		0.009	0.008		0.009	0.009		-	
	*summation				μW	2.5	0.015	0.018	-	0.018	0.017	-	0.021	0.018	-	Sum	
	1	~	5.34	GHz	-	MHz	5159.31	5285.01		5273.22	5225.60		5252.11	5304.16		ant1	
					μW	2.5	0.025	0.024		0.033	0.032		0.041	0.032		-	
	1	~	5.34	GHz	-	MHz	5278.62	5228.05		5326.74	5323.31		5291.39	5312.99		ant2	
					μW	2.5	0.039	0.029		0.053	0.030		0.042	0.024		-	
	*summation				μW	2.5	0.065	0.054	-	0.086	0.062	-	0.083	0.056	-	Sum	
	5.8	~	26	GHz	-	MHz	25693.97	25727.30		24500.15	25142.51		25682.86	25695.99		ant1	
					μW	2.5	0.212	0.217		0.219	0.202		0.208	0.220		-	
	5.8	~	26	GHz	-	MHz	25130.39	25114.23		24444.60	24473.89		25110.19	25003.13		ant2	
					μW	2.5	0.215	0.178		0.181	0.214		0.183	0.200		-	
	*summation				μW	2.5	0.428	0.396	-	0.400	0.415	-	0.391	0.420	-	Sum	
	out-band power	5.34	~	5.46	GHz	-	MHz	5459.52	5459.28		5457.96	5446.92		5452.08	5457.72		ant1
					μW/MHz	12.5	1.078	0.061		0.881	0.069		0.728	0.060		-	
5.34		~	5.46	GHz	-	MHz	5458.92	5454.36		5458.92	5460.00		5458.56	5455.56		ant2	
					μW/MHz	12.5	3.669	0.076		5.241	0.074		3.403	0.092		-	
*summation				μW/MHz		4.747	0.136		6.121	0.143		4.132	0.152		Sum		
*summation(EIRP)				μW/MHz		9.150	0.263		11.799	0.275		7.964	0.292		eirp		
5.46		~	5.4695	GHz	-	MHz	5467.27	5466.66		5467.37	5468.24		5464.38	5466.64		ant1	
					μW/MHz	50	2.059	0.109		2.442	0.103		2.316	0.096		-	
5.46		~	5.4695	GHz	-	MHz	5466.70	5466.48		5468.03	5467.62		5468.87	5468.44		ant2	
					μW/MHz	50	9.063	0.159		8.224	0.146		7.823	0.110		-	
*summation				μW/MHz		11.122	0.268		10.665	0.249		10.139	0.206		Sum		
*summation(EIRP)				μW/MHz		21.438	0.516		20.558	0.479		19.543	0.397		eirp		
5.4695		~	5.47	GHz	-	MHz	5469.73	5469.95		5469.89	5469.84		5469.65	5469.70		ant1	
					μW/MHz	51.2	2.535	0.107		2.675	0.105		2.032	0.128		-	
5.4695		~	5.47	GHz	-	MHz	5469.65	5469.82		5469.81	5469.88		5469.73	5469.94		ant2	
					μW/MHz	51.2	7.281	0.143		8.943	0.126		9.126	0.123		-	
*summation				μW/MHz		9.816	0.249		11.618	0.231		11.158	0.2516		Sum		
*summation(EIRP)				μW/MHz		18.921	0.481		22.394	0.446		21.507	0.485		eirp		
ACP	5.725	~	5.8	GHz	-	MHz	5731.45	5736.18		5732.65	5735.95		5725.60	5729.05		ant1	
					μW/MHz	12.5	0.058	0.211		0.051	0.194		0.045	0.195		-	
	5.725	~	5.8	GHz	-	MHz	5734.45	5741.35		5727.63	5725.75		5725.90	5730.55		ant2	
					μW/MHz	12.5	0.095	0.238		0.103	0.392		0.080	0.255		-	
	*summation				μW/MHz		0.153	0.449		0.154	0.586		0.124	0.450		Sum	
	*summation(EIRP)				μW/MHz		0.295	0.865		0.296	1.129		0.240	0.868		eirp	
	80MHz detuning				dBc	25	34.49	34.37		34.56	34.22		34.49	34.43		-	
	-80MHz detuning				dBc	25	33.51	33.16		33.55	33.29		33.77	33.48		-	
	Max Antenna power				mW/MHz	2.50	2.170	2.100		2.155	2.089		2.160	2.086			
	deviation				%	-50	-13.18	-15.99		-13.80	-16.44		-13.61	-16.57		-	
						50										2TX	
	Radiation from receiver	(measured frequency)				-	MHz	506.87	506.32		509.27	506.32		506.37	510.02		-
		30	~	1000	MHz	nW/100kHz	4	0.0010	0.0009		0.0007	0.0008		0.0008	0.0008		ANT1
		(measured frequency)				-	MHz	479.92	733.89		861.49	506.27		511.27	508.92		ANT2
		30	~	1000	MHz	nW/100kHz	4	0.0008	0.0005		0.0006	0.0009		0.0008	0.0006		-
		*summation				nW/100kHz	4	0.0018	0.0015		0.0013	0.0018		0.0016	0.0014		Sum
(measured frequency)				-	MHz	24528.75	25070.00		25712.50	25636.25		25657.50	25215.00		ANT1		
1000		~	26000	MHz	nW/MHz	20	0.1315	0.0949		0.1149	0.1421		0.1078	0.1069		-	
(measured frequency)				-	MHz	25675.00	25082.50		25193.75	25137.50		25688.75	24533.75		ANT2		
1000	~	26000	MHz	nW/MHz	20	0.1327	0.1450		0.1050	0.1278		0.1358	0.1218		-		
*summation				nW/MHz	20	0.2641	0.2399		0.2199	0.2699		0.2436	0.2288		Sum		
Tx burst length				ms	4	0.459										-	
E.I.R.P.				mW/MHz	12.5	4.183	4.048		4.154	4.026		4.163	4.020				
Interference Protection (Device ID)				yes													
Carrier Sense 1 (Detect level)				N/A													
Carrier Sense 2 (DFS)				yes													
TPC				yes													

Each modulation Antenna power	802.11 ac VHT80 (Duty Ratio : 0.94)	mW/MHz	2.50	0.802	0.919		0.792	0.907		0.798	0.914		Ant1
				1.121	0.946		1.134	0.933		1.124	0.938		Ant2
				1.923	1.866		1.926	1.840		1.922	1.852		Sum
				2.045	1.985		2.049	1.957		2.045	1.970		Sum/Duty
	802.11 ax HE80 (Duty Ratio : 0.9274)	mW/MHz	2.50	0.821	0.959		0.815	0.959		0.817	0.959		Ant1
				1.192	0.989		1.184	0.978		1.186	0.975		Ant2
				2.013	1.948		1.999	1.937		2.003	1.934		Sum
				2.170	2.100		2.155	2.089		2.160	2.086		Sum/Duty

Note. The Max antenna power and Max EIRP modulation is 802.11 ax HE 80 Mode.

Note :

Result plots are provided as separate document (APPENDIX C)

APPENDIX A. TEST SETUP PHOTOS

The setup photos are provided as a separate document

APPENDIX B. PHOTOGRAPHS OF EUT

The EUT photos are provided as a separate document

APPENDIX C. RESULT PLOTS

C.1

Result plots for W52, 53 test result provided as separate document

C.2

Result plots for W52, 53 test result provided as separate document

END OF TEST REPORT

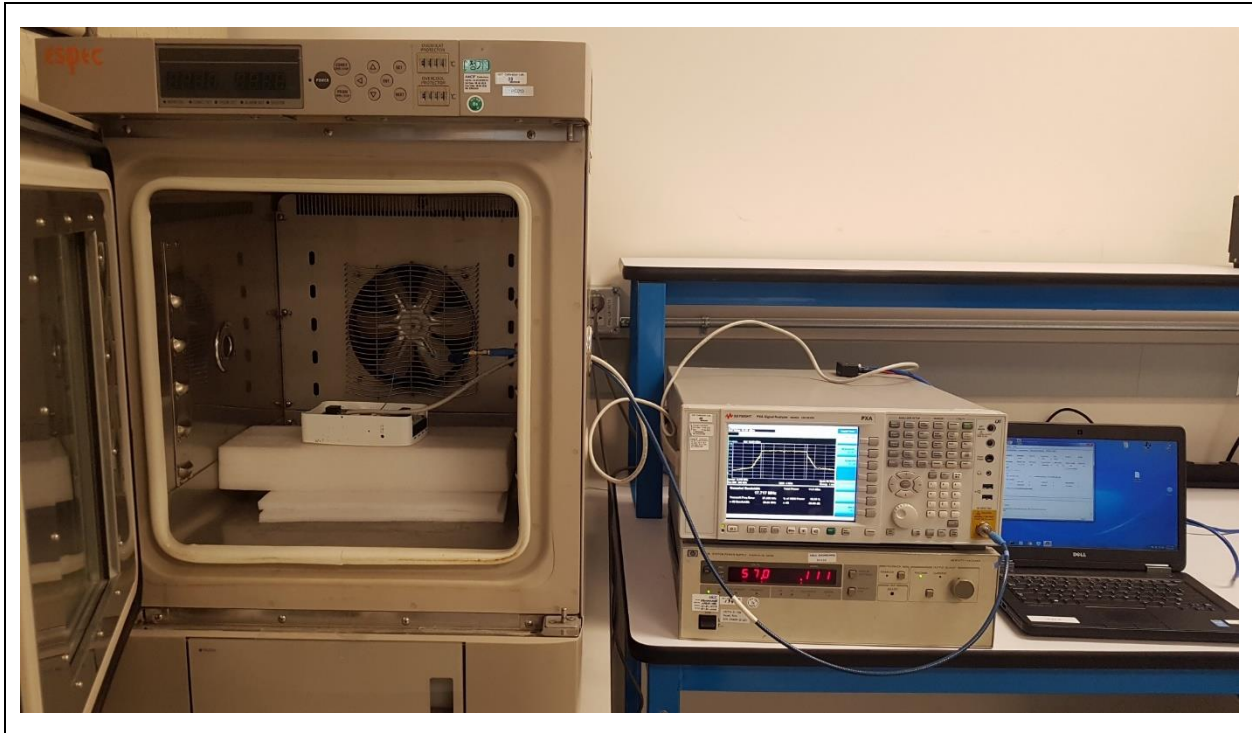
APPENDIX A

Test Setup Photos

Applicant	Hewlett Packard Enterprise Company
Model Name	APINH505

Radiated Emission Test Setup

RF Conducted Test Setup



DFS Conducted Test Setup

