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TEL: +82-31-645-6300 **FAX: +82-31-645-6401**

FCC UNII 6e REPORT

Certification

Applicant Name:
SAMSUNG Electronics Co., Ltd.

Address:
129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Date of Issue:
November 07, 2022

Test Site/Location:
74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA

Report No.: HCT-RF-2210-FC034-R2

FCC ID:	**A3LSMS911B**
APPLICANT:	**SAMSUNG Electronics Co., Ltd.**

Model:	SM-S911B/DS
Additional Model:	SM-S911B
EUT Type:	Mobile Phone
Modulation type	OFDM/OFDMA
FCC Classification:	15E 6 GHz Low Power Dual Client
FCC Rule Part(s):	Part 15.407

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

REVIEWED BY

Report prepared by : Chang Hee Hwang
Engineer of Telecommunication Testing Center

Report approved by : Jong Seok Lee
Manager of Telecommunication Testing Center

This test results were applied only to the test methods required by the standard.

This laboratory is not accredited for the test results marked *.
The above Test Report is the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA. (HCT Accreditation No.: KT197)

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-2210-FC034	October 21, 2022	- First Approval Report
HCT-RF-2210-FC034-R1	November 03, 2022	- Added Test limit (Page.93, 130, 167, 185) - Added Channel Frequency(Page.204 ~206) - Added Equipement List(Page.243~244) - Added Conducted Output Power(Page.8~9, 93~166)
HCT-RF-2210-FC034-R2	November 07, 2022	- Updated Ouput Power & P.S.D Contents

Table of Contents

1. GENERAL INFORMATION

EUT DESCRIPTION

Model	SM-S911B/DS	
Additional Model	SM-S911B	
EUT Type	Mobile Phone	
Power Supply	DC 3.88 V	
Modulation Type	OFDM/OFDMA	
Frequency Range (MHz)	**Indoor Clent**	
	U-NII-5	20 MHz BW : 5935 - 6415 40 MHz BW : 5965 - 6405 80 MHz BW : 5985 - 6385 160 MHz BW : 6025 - 6345
	U-NII-6	20 MHz BW : 6435 - 6515 40 MHz BW : 6445 - 6525 80 MHz BW : 6465 160 MHz BW : 6505
	U-NII-7	20 MHz BW : 6535 - 6875 40 MHz BW : 6565 - 6845 80 MHz BW : 6545 – 6865 160 MHz BW : 6665 - 6825
	U-NII-8	20 MHz BW : 6895 - 7115 40 MHz BW : 6885 - 7085 80 MHz BW : 6945 - 7025 160 MHz BW : 6985
	Standard Client	
	U-NII-5	20 MHz BW : 5935 - 6415 40 MHz BW : 5965 - 6405 80 MHz BW : 5985 - 6385 160 MHz BW : 6025 - 6345
	U-NII-7	20 MHz BW : 6535 – 6855 40 MHz BW : 6565 - 6845 80 MHz BW : 6625 – 6785 160 MHz BW : 6665
Straddle channel	Supported	
Date(s) of Tests	September 06, 2022 ~ October 21, 2022	
Serial number	Radiated: R3CT90BE36R Conducted : R3CT706PF2A Conducted(CBP test Only) : R3CT706PEQE	

ANTENNA CONFIGURATIONS

Configurations	SISO		MIMO	
	Ant.1	Ant.2	CDD	SDM
802.11a	X	X	O	X
802.11ax (HE20/40/80/160)	X	X	O	O

Note:

(1) O = Support, X = Not Support

(2) SISO = Single Input Single Output

(3) SDM = Spatial Diversity Multiplexing

(4) CDD = Cyclic Delay Diversity

(5) SISO test was performed for the MIMO test result.

2.This device supports simultaneous transmission operation, which allows for two channels to operate independent of one another in the 2.4 GHz and 5 GHz or 6 GHz bands simultaneously on each antenna.

RSDB Scenario	2.4 GHz WiFi Ant.1	2.4 GHz WiFi Ant.2	5 GHz WiFi Ant.1	5 GHz WiFi Ant.2	6 GHz WiFi Ant.1	6 GHz WiFi Ant.2	Bluetooth Ant.1	Bluetooth Ant.2
2.4 GHz WiFi MIMO + 6 GHz WiFi MIMO	on	on			on	on		
2.4 GHz WiFi MIMO + 5 GHz WiFi MIMO	on	on	on	on				
Bluetooth ANT.1 + 2.4 GHz WiFi ANT.2 + 5 GHz WiFi MIMO		on	on	on			on	
Bluetooth ANT.1 + 2.4 GHz WiFi ANT.2 + 6 GHz WiFi MIMO		on			on	on	on	

3. Directional Gain Calculation

According to KDB 662911 D01 Multiple Transmitter Output v02r01 F) 2) f) (ii)

Directional gain =

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

Band	Ant Gain (dBi)		N_{ANT}/ N_{SS}	Directional Gain (dBi)
UNII 5	ANT1	-2.56	2 / 2	-0.64
	ANT2	-4.89		
UNII 6	ANT1	-4.13	2 / 2	-1.52
	ANT2	-4.96		
UNII 7	ANT1	-4.59	2 / 2	-1.77
	ANT2	-4.98		
UNII 8	ANT1	-6.71	2 / 2	-2.87
	ANT2	-5.12		

Note

According to Ansi C63.10-2013 section 14.4.3, the directional gain is calculated using the formula, where GN is the gain of the nth antenna and NANT is the total number of antennas used.

Directional Gain = $10 \cdot \log(((10^{(\text{ANT1 Gain}/20)}+10^{(\text{ANT2 Gain}/20)})^2)/2)$ dBi

Sample Calculation (Conducted Power, MIMO):

Ex) Ant 1 : 11.58 dBm Ant 2 : 12.08 dBm

Ant1 + Ant 2 = MIMO

(11.58 dBm + 12.08 dBm) = (14.387 mW + 16.143 mW) = 30.53 mW = 14.88 dBm

Sample Calculation (E.I.R.P & E.I.R.P Spectral Density, MIMO):

Ex) ANT1 : 15.35 dBm , ANT2 : 15.12 dBm, Directional Gain : 3 dBi

Conducted Power = (15.35 dBm + 15.12 dBm) = (34.276 mW + 32.508 mW) = 66.784 mW = 18.25 dBm

E.I.R.P = 18.25 dBm + 3 dBi = 21.25 dBm

2. MAXIMUM OUTPUT POWER

The transmitter has a Maximum Conducted Output Power as follows:

Indoor client			
Band	Mode	MIMO	
		(Ant 1 + Ant 2) Output Power	
		(dBm)	(W)
UNII5	802.11ax (HE20)	10.31	0.011
	802.11ax (HE40)	12.30	0.017
	802.11ax (HE80)	12.51	0.018
	802.11ax (HE160)	12.30	0.017
	802.11 a	9.89	0.010
UNII6	802.11ax (HE20)	10.68	0.012
	802.11ax (HE40)	12.56	0.018
	802.11ax (HE80)	12.72	0.019
	802.11ax (HE160)	12.13	0.016
	802.11 a	10.25	0.011
UNII7	802.11ax (HE20)	10.16	0.010
	802.11ax (HE40)	12.46	0.018
	802.11ax (HE80)	12.81	0.019
	802.11ax (HE160)	11.99	0.016
	802.11 a	9.67	0.009
UNII8	802.11ax (HE20)	9.89	0.010
	802.11ax (HE40)	12.46	0.018
	802.11ax (HE80)	12.76	0.019
	802.11ax (HE160)	12.12	0.016
	802.11 a	10.46	0.011

Standard client			
Band	Mode	MIMO	
		(Ant 1 + Ant 2) Output Power	
		(dBm)	(W)
UNII5	802.11ax (HE20)	14.14	0.026
	802.11ax (HE40)	14.39	0.027
	802.11ax (HE80)	14.89	0.031
	802.11ax (HE160)	14.41	0.028
	802.11 a	13.77	0.024
UNII7	802.11ax (HE20)	14.27	0.027
	802.11ax (HE40)	14.76	0.030
	802.11ax (HE80)	14.98	0.031
	802.11ax (HE160)	14.02	0.025
	802.11 a	13.75	0.024

The transmitter has a Maximum EIRP Output Power as follows:

Indoor client			
Band	Mode	MIMO	
		(Ant 1 + Ant 2) EIRP Power	
		(dBm)	(W)
UNII5	802.11ax (HE20)	9.67	0.009
	802.11ax (HE40)	11.66	0.015
	802.11ax (HE80)	11.87	0.015
	802.11ax (HE160)	11.66	0.015
	802.11 a	9.25	0.008
UNII6	802.11ax (HE20)	9.16	0.008
	802.11ax (HE40)	11.04	0.013
	802.11ax (HE80)	11.20	0.013
	802.11ax (HE160)	10.61	0.012
	802.11 a	8.73	0.007
UNII7	802.11ax (HE20)	8.39	0.007
	802.11ax (HE40)	10.69	0.012
	802.11ax (HE80)	11.04	0.013
	802.11ax (HE160)	10.22	0.011
	802.11 a	7.90	0.006
UNII8	802.11ax (HE20)	7.02	0.005
	802.11ax (HE40)	9.59	0.009
	802.11ax (HE80)	9.89	0.010
	802.11ax (HE160)	9.25	0.008
	802.11 a	7.59	0.006

Standard client			
Band	Mode	MIMO	
		(Ant 1 + Ant 2) EIRP Power	
		(dBm)	(W)
UNII5	802.11ax (HE20)	13.50	0.022
	802.11ax (HE40)	13.75	0.024
	802.11ax (HE80)	14.25	0.027
	802.11ax (HE160)	13.77	0.024
	802.11 a	13.13	0.021
UNII7	802.11ax (HE20)	12.50	0.018
	802.11ax (HE40)	12.99	0.020
	802.11ax (HE80)	13.21	0.021
	802.11ax (HE160)	12.25	0.017
	802.11 a	11.98	0.016

3. TEST METHODOLOGY

U-NII 6 GHz devices operating in the 5.925-7.125 GHz band was tested using the following measurement procedure.

[1] FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v01v01(February 04, 2021)

[2] KDB 789033 D02 General UNII Test Procedures New Rules v02r01(December 14, 2017)

[3] ANSI C63.10(2013) 'the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices'

EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E.

GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10. (Version :2013) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1 GHz. Above 1 GHz with 1.5m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 6.6.5 of ANSI C63.10. (Version: 2013)

DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment's, which is traceable to recognized national standards.

Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22.

Detailed description of test facility was submitted to the Commission and accepted dated April 02, 2018 (Registration Number: KR0032).

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203, §15.407:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

(1) The antennas of this E.U.T are permanently attached.

(2) The E.U.T Complies with the requirement of §15.203, §15.407

7. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence.

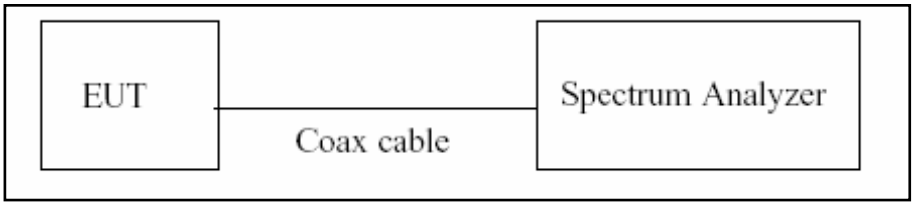
The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	2.00 (Confidence level about 95 %, k=2)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.40 (Confidence level about 95 %, k=2)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.74 (Confidence level about 95 %, k=2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.51 (Confidence level about 95 %, k=2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.92 (Confidence level about 95 %, k=2)
Radiated Disturbance (Above 40 GHz)	5.48 (Confidence level about 95 %, k=2)

8. DESCRIPTION OF TESTS

8.1. Duty Cycle

Test Configuration



Test Procedure

The transmitter output is connected to the Spectrum Analyzer.

We tested according to Procedure B.2 in KDB 789033 D02 v02r01.

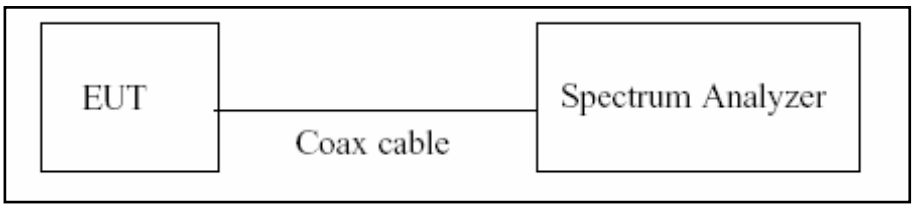
1. RBW = 8 MHz (the largest available value)
2. VBW = 8 MHz (≥ RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Measure T_{total} and T_{on}
8. Calculate Duty Cycle = T_{on}/ T_{total} and Duty Cycle Factor = 10log(1/Duty Cycle)

8.2. 26 dB Bandwidth

Limit

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

Test Configuration



Test Procedure(26 dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer.

We tested according to Procedure C.1 in KDB 789033 D02 v02r01.

1. RBW = approximately 1 % of the emission bandwidth
2. VBW > RBW
3. Detector = Peak
4. Trace mode = Max Hold
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

Note:

1. We tested X dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer.
2. The 26 dB bandwidth is used to determine the in-Band Emission limits.

8.3. Output Power Measurement

Indoor Client Limit

Band	Limit (e.i.r.p)
UNII 5,6,7,8	24 dBm

[47 CFR 15.407(a)(8)] For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

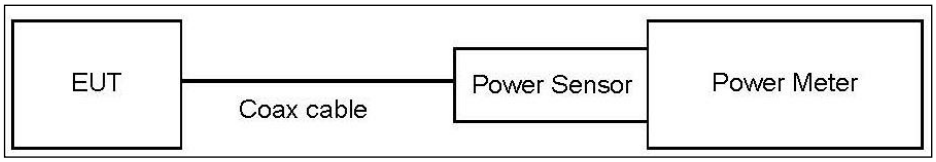
Standard Client Limit

Band	Limit (e.i.r.p)
UNII 5,7	30 dBm

[47 CFR 15.407(a)(7)] For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

Test Configuration

Power Meter



Test Procedure(Power Meter)

We tested according to Procedure E.3.a in KDB 789033 D02 v02r01.

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Sample Calculation

Total Power(dBm) = Measured Level(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

1. Power Meter offset

   Ant.1: Loss = Attenuator loss(10 dB) + Cable loss + EUT cable Loss

   Ant.2: Loss = Attenuator loss(10 dB) + Cable loss

2. Actual value of loss for the attenuator and cable combination is below table.

Band	Ant.1 Loss(dB)	Ant.2 Loss(dB)
UNII 5	11.66	10.90
UNII 6	11.66	10.90
UNII 7	11.66	10.90
UNII 8	11.66	10.90

(Actual value of loss for the attenuator and cable combination)

8.4. Power Spectral Density

Indoor Client Limit

Band	Limit (e.i.r.p)
UNII 5,6,7,8	-1 dBm/MHz

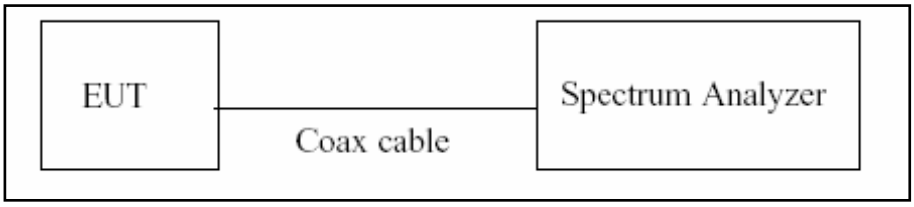
[47 CFR 15.407(a)(8)] For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, he maximum power spectral density must not exceed −1 dBm e.i.r.p. in any 1-megahertz band.

Standard Client Limit

Band	Limit (e.i.r.p)
UNII 5,7	17 dBm/MHz

[47 CFR 15.407(a)(7)] For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band

Test Configuration



Test Procedure

We tested according to Procedure F in KDB 789033 D02 v02r01.

1. Set span to encompass the entire emission bandwidth(EBW) of the signal.
2. RBW = 1 MHz
3. VBW ≥ 3 MHz
4. Number of points in sweep ≥ 2 x span/RBW.
5. Sweep time = auto.
6. Detector = RMS(i.e., power averaging), if available. Otherwise, use sample detector mode.
7. Do not use sweep triggering. Allow the sweep to “free run”.
8. Trace average at least 100 traces in power averaging(RMS) mode
9. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.
10. If Method SA-2 was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum.

Sample Calculation

Total PSD(dBm) = Measured Level(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

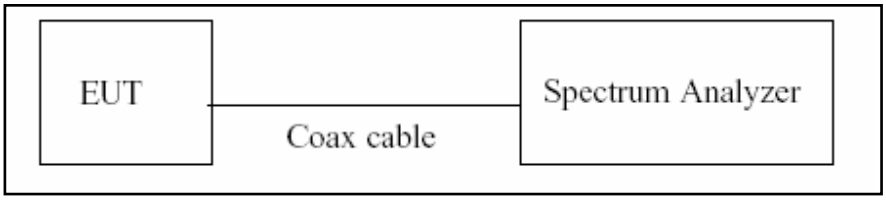
1. Spectrum Measured Levels are not plot data.
   The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset
   Ant.1: Loss = Attenuator loss(10 dB) + Cable loss + EUT cable Loss
   Ant.2: Loss = Attenuator loss(10 dB) + Cable loss
3. Actual value of loss for the attenuator and cable combination is below table.

Band	Ant.1 Loss(dB)	Ant.2 Loss(dB)
UNII 5	11.66	10.90
UNII 6	11.66	10.90
UNII 7	11.66	10.90
UNII 8	11.66	10.90

(Actual value of loss for the attenuator and cable combination)

8.5. In-Band Emission (Emissions Mask)

Test Configuration

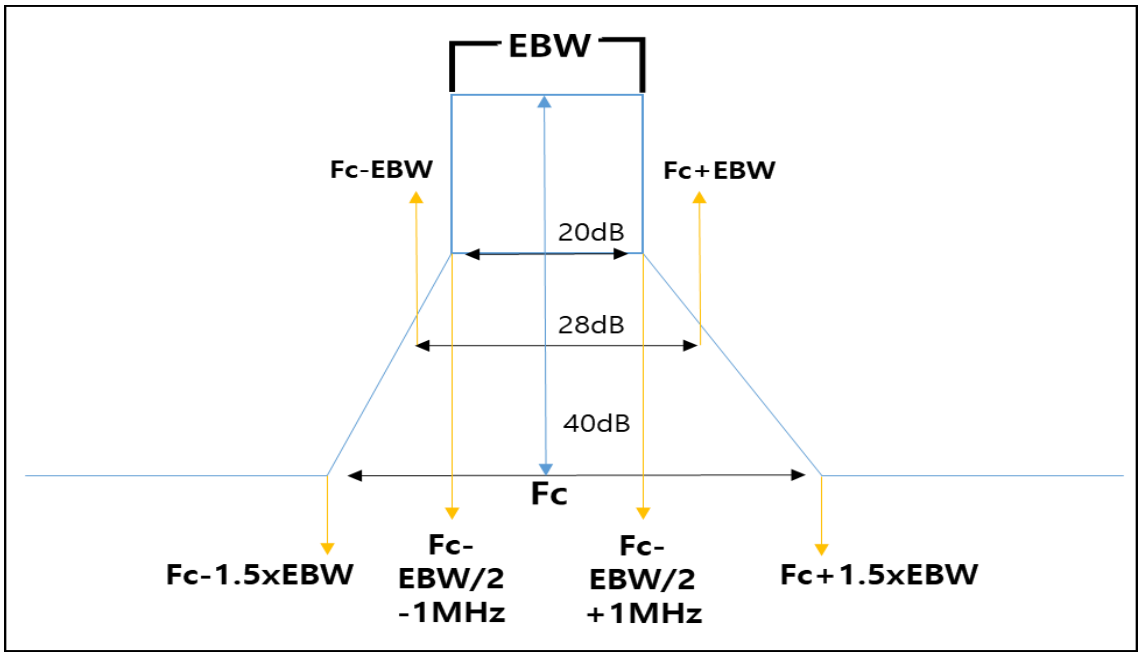


Test Procedure

We tested according to Procedure J in KDB 987594 D02.

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2013.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
    a. Set the span to encompass the entire 26 dB EBW of the signal.
    b. Set RBW = same RBW used for 26 dB EBW measurement.
    c. Set VBW ≥ 3 X RBW
    d. Number of points in sweep ≥ [2 X span / RBW].
    e. Sweep time = auto.
    f. Detector = RMS (i.e., power averaging)
    g. Trace average at least 100 traces in power averaging (rms) mode.
    h. Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.

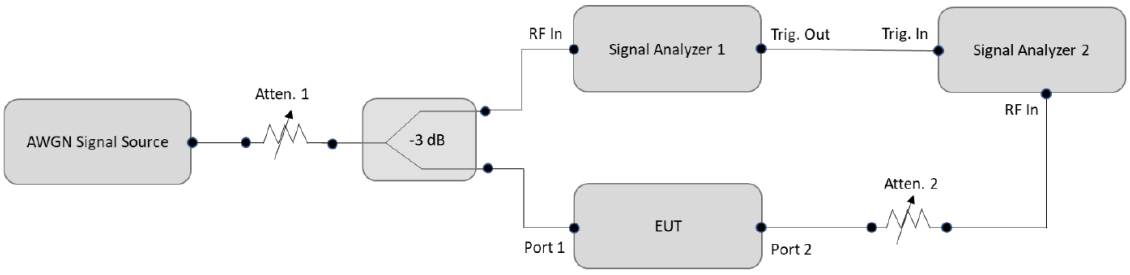
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
    a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
    b. Suppressed by 28 dB at one channel bandwidth from the channel center.
    c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.



Generic Emission Mask

8.6. Contention Based Protocol

Test Configuration



Test Procedure

We tested according to Procedure I in KDB 987594 D02.

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Test Configuration. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Test Configuration.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

Sample Calculation

Incumbent signal Power(dBm) = Measured Value(dBm)

Modified Detection Limit(dBm) = Detection Limit(-62 dBm) + Antenna Gain(dBi)

8.7. Radiated Test

Limit

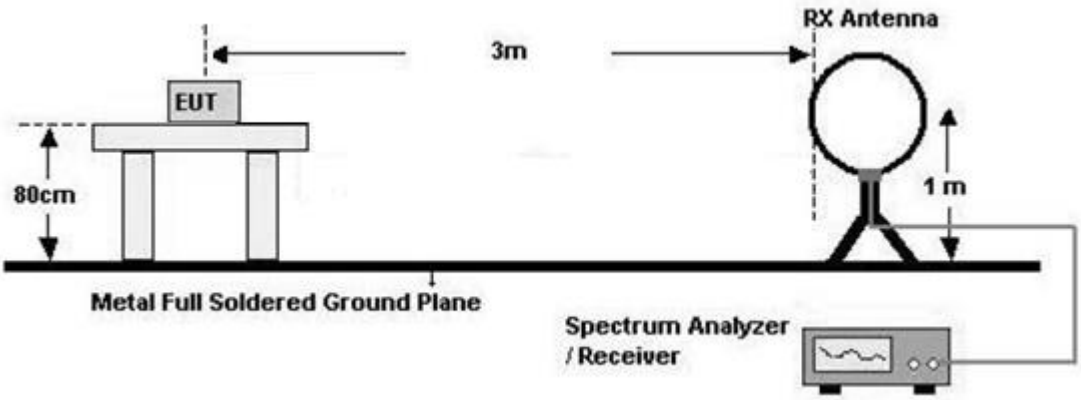
1. For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of −27 dBm/MHz.

2. All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Section 15.209.

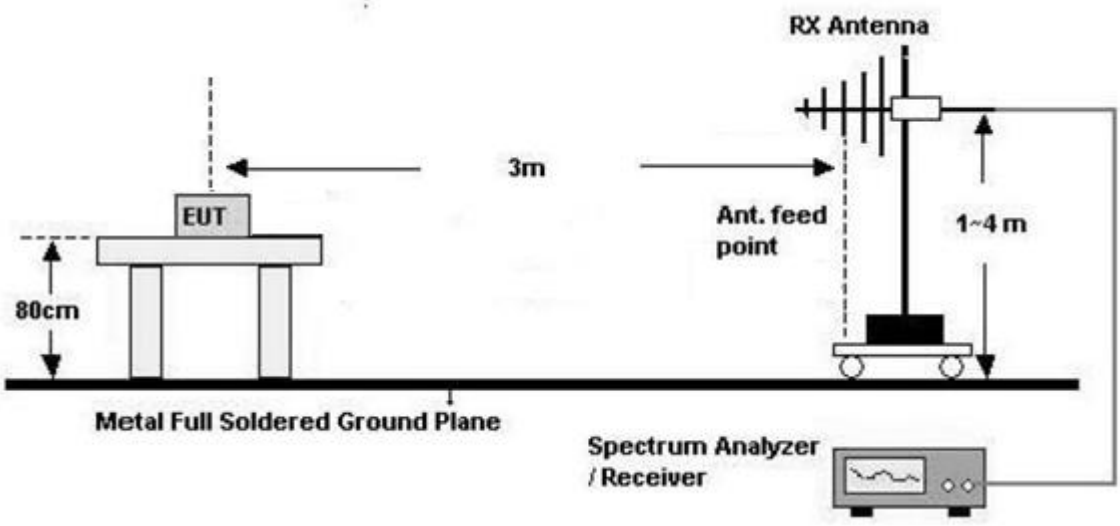
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

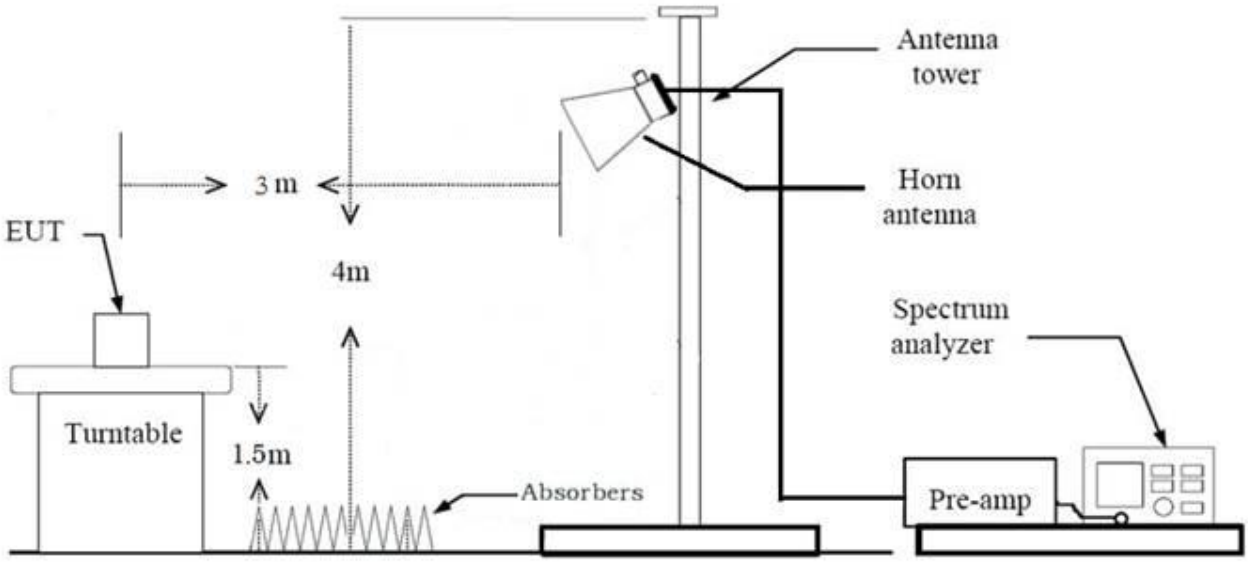
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



Test Procedure of Radiated spurious emissions(Below30 MHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The loop antenna was placed at a location 3 m from the EUT
3. The EUT is placed on a turntable, which is 0.8m above ground plane.
4. .We have done x, y, z planes in EUT and horizontal and vertical polarization and Parallel to the ground plane in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Distance Correction Factor(0.009 MHz – 0.490 MHz) =40log(3 m/300 m)= - 80 dB
   Measurement Distance : 3 m
7. Distance Correction Factor(0.490 MHz – 30 MHz) =40log(3 m/30 m)= - 40 dB
   Measurement Distance : 3 m
8. Spectrum Setting
   - Frequency Range = 9 kHz ~ 30 MHz
   - Detector = Peak
   - Trace = Max Hold
   - RBW = 9 kHz
   - VBW ≥ 3 x RBW
9. Total = Measured Level + Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F)
10. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

KDB 414788 OFS and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making
measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

Test Procedure of Radiated spurious emissions(Below 1 GHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The EUT is placed on a turntable, which is 0.8m above ground plane.
3. The Hybrid antenna was placed at a location 3 m from the EUT, which is varied from 1 m to 4 m to find out the highest emissions.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Spectrum Setting
   (1) Measurement Type(Peak):
      - Measured Frequency Range : 30 MHz – 1 GHz
      - Detector = Peak
      - Trace = Max Hold
      - RBW = 100 kHz
      - VBW ≥ 3 x RBW
   (2) Measurement Type(Quasi-peak):
      - Measured Frequency Range : 30 MHz – 1 GHz
      - Detector = Quasi-Peak
      - RBW = 120 kHz

   ※In general, (1) is used mainly
7. Total = Measured Level + Antenna Factor(A.F) + Cable Loss(C.L)
8. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

Test Procedure of Radiated spurious emissions (Above 1 GHz)

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. The unit was tested with its standard battery.
8. Spectrum Setting

   (1) Measurement Type(Peak, G.5 in KDB 789033 v02r01):

   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep Time = auto
   - Trace mode = Max Hold
   - Allow sweeps to continue until the trace stabilizes.

     Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle.

   (2) Measurement Type (Average, G.6.c in KDB 789033 v02r01):

   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - The analyzer is set to linear detector mode.
   - Averaging type = power (i.e., RMS)
   - Sweep time = auto.
   - Trace mode = average (at least 100 traces).
   - If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.

9. Distance extrapolation factor = 20log (test distance / specific distance) (dB)

10. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor
11. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency
12. Distance extrapolation factor = 20log (test distance / specific distance) (dB)
13. Total = Measured Level + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G) + Distance Factor(D.F)

Test Procedure of Radiated Restricted Band Edge

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. The unit was tested with its standard battery.
8. Spectrum Setting
   (1) Measurement Type(Peak, G.5 in KDB 789033 v02r01):
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep Time = auto
   - Trace mode = Max Hold
   - Allow sweeps to continue until the trace stabilizes.
     Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle.

   (2) Measurement Type (Average, G.6.c in KDB 789033 v02r01):
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - The analyzer is set to linear detector mode.
   - Averaging type = power (i.e., RMS)
   - Sweep time = auto.
   - Trace mode = average (at least 100 traces).
   - If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.
9. Distance extrapolation factor = 20log (test distance / specific distance) (dB)
10. Total = Measured Level + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G) + Attenuator + Distance Factor(D.F)

8.8. Test RU offset for Tones

BW (MHz)	Tones (T)	RU offset	Test RU offset		
			Low	Mid	High
20	26	0~8	0	4	8
	52	37~40	37	38	40
	106	53~54	53	-	54
	242	61	-	61	-
40	26	0~17	0	9	17
	52	37~44	37	41	44
	106	53~56	53	54	56
	242	61~62	61	-	62
	484	65	-	65	-
80	26	0~36	0	18	36
	52	37~52	37	45	52
	106	53~60	53	57	60
	242	61~64	61	62	64
	484	65~66	65	-	66
	996	67	-	67	-
160	26	0~36	0	18	36
	52	37~52	37	45	52
	106	53~60	53	57	60
	242	61~64	61	62	64
	484	65~66	65	-	66
	996	67	-	67	-

8.9. Worst case configuration and mode

Conducted test

1. All data rate of operation were investigated and the worst case results are reported.
   - HE20 : MCS 0
   - HE40 : MCS 0
   - HE80 : MCS 0
   - HE160 : MCS 0
   - 802.11 a : 6 Mbps
2. SM-S911B/DS, SM-S911B were tested and the worst case results are reported.

(Worst case : SM-S911B/DS)

Radiated test

1. All modes of operation were investigated and the worst case configuration results are reported.
   - Mode : Stand alone, Stand alone + External accessories(Earphone, etc)
   - Worstcase : Stand alone
2. EUT Axis
   - Radiated Spurious Emissions : X
   - Radiated Restricted Band Edge : Y
3. All data rate of operation were investigated and the worst case results are reported.

   (Worst case : MCS0)
4. All Antenna of operation were investigated and the worst case results are reported
   - Mode : Ant1+Ant2(SDM), Ant1+Ant2(CDD)
   - Worstcase : Ant1+Ant2(CDD)
5. All position of loop antenna were investigated and the test result is a no critical peak found at all positions.
   - Position : Horizontal, Vertical, Parallel to the ground plane
6. SM-S911B/DS, SM-S911B were tested and the worst case results are reported.

(Worst case : SM-S911B/DS)

7. All mode(Tone, RU Offset) of operation were investigated and the worst case configuration results are reported

Test	Tone	RU Offset
RSE	Worst case(Highest Power) [802.11a] 6 Mbps (Band NII-5) [HE 20] SU (Band NII5,6,7,8) [HE40] SU (Band NII-5) [HE80] SU (Band NII-5) [HE160] SU (Band NII-5)	 [802.11a] - [HE 20] - [HE40] - [HE80] - [HE160] -
Bandedge (UNII5,8)	[802.11a] 6 Mbps [HE 20] : 26T, 52T, 106T, 242T, SU [HE 40] : 26T, 484T [HE 80] : 26T, 996T [HE 160L&U] : 996T [HE 160] : SU	[802.11a] - [HE20] Low Edge: 0, 37, 53 High Edge: 8, 40, 54 Full tone : 61 [HE40] Full tone : 0, 17, 65 [HE80] Full tone : 0, 36, 67 [HE160(80L&80U)] Full tone : 67

Radiated test(RDBS)

1. Please refer to the UNII ax Test Report.
2. SM-S911B/DS, SM-S911B were tested and the worst case results are reported.

(Worst case : SM-S911B/DS)

AC Power line Conducted Emissions

1. All modes of operation were investigated and the worst case configuration results are reported.
   - Mode : Stand alone + External accessories(Earphone, Keyboard etc)+Travel Adapter, Stand alone + Travel Adapter
   - Worstcase : Stand alone + Travel Adapter
2. SM-S911B/DS, SM-S911B were tested and the worst case results are reported.

(Worst case : SM-S911B/DS)

9. SUMMARY OF TEST RESULTS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
26dB Bandwidth	§15.407(a)(10) (for Power Measurement)	Channel Bandwidth(26dB EBW) < 320 MHz	Conducted	PASS
Output Power Maximum EIRP	§15.407(a)(4)~(8)	U-NII-5(5925-6425 MHz) & U-NII-7(6525-6875 MHz) Standard-Power Access Point (AFC Controlled) EIRP < 36 dBm Client(Connected to standard-Power Access Point) EIRP < 30 dBm U-NII-5(5925-6425 MHz) & U-NII-6(6425-6525 MHz) U-NII-7(6525-6875 MHz) & U-NII-8(6875-7125 MHz) Low-Power Access Point (indoor only) EIRP < 30 dBm Client (Connected to Low-Power Access Point) EIRP < 24 dBm		PASS
Output Power Maximum EIRP Power Spectral Density	§15.407(a)(4)~(8)	U-NII-5(5925-6425 MHz) & U-NII-7(6525-6875 MHz) Standard-Power Access Point (AFC Controlled) < 33 dBm/MHz (EIRP) Client(Connected to standard-Power Access Point) < 17 dBm/MHz (EIRP) U-NII-5(5925-6425 MHz) & U-NII-6(6425-6525 MHz) U-NII-7(6525-6875 MHz) & U-NII-8(6875-7125 MHz) Low-Power Access Point (indoor only) < 5 dBm/MHz (EIRP) Client (Connected to Low-Power Access Point) < -1 dBm/MHz (EIRP)		PASS
AC Conducted Emissions 150 kHz-30 MHz	15.407 (b)(9)	<FCC 15.207 limits		PASS
Contention Based Protocol	§15.407(d)(6)	Detect co-channel energy with 90% or greater certainty.		PASS
In-Band Emissions (Emissions Mask)	§15.407(b)(7)	For transmitters operating within the (5925-7125 MHz) bands Power spectral density (channel bandwidth =26dB EBW) a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.) b. Suppressed by 28 dB at one channel bandwidth from the channel center. c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.		PASS
Undesirable Emissions	§15.407(b) §15.35(b)	<-27 dBm/MHz EIRP (UNII5, 6, 7, 8)	Radiated	PASS
General Field Strength Limits(Restricted Bands and Radiated Emission Limits)	15.205, 15.407(b)(5), (6)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS

10. TEST RESULT

10.1 DUTY CYCLE

10.1.1 802.11 ax Duty Cycle

Mode	Tones	Data Rate (Mbps)	T_{on} (ms)	T_{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
HE 20M	26	MCS0	2.594	2.612	0.993	0.030
	52	MCS0	2.592	2.609	0.993	0.030
	106	MCS0	2.435	2.452	0.993	0.032
	242	MCS0	2.386	2.404	0.993	0.032
HE 40M	26	MCS0	2.594	2.612	0.993	0.030
	52	MCS0	2.592	2.607	0.994	0.025
	106	MCS0	2.437	2.452	0.994	0.027
	242	MCS0	2.386	2.404	0.993	0.032
	484	MCS0	2.384	2.402	0.993	0.032
HE 80M	26	MCS0	2.597	2.612	0.994	0.025
	52	MCS0	2.592	2.609	0.993	0.030
	106	MCS0	2.437	2.452	0.994	0.027
	242	MCS0	2.389	2.404	0.994	0.028
	484	MCS0	2.384	2.399	0.994	0.028
	996	MCS0	2.422	2.437	0.994	0.027
HE 160M	26	MCS0	2.594	2.612	0.993	0.030
	52	MCS0	2.592	2.607	0.994	0.025
	106	MCS0	2.437	2.452	0.994	0.027
	242	MCS0	2.389	2.404	0.994	0.028
	484	MCS0	2.384	2.399	0.994	0.028
	996	MCS0	2.419	2.435	0.994	0.027
802.11ax (SU)	BW 20	MCS0	2.386	2.404	0.993	0.032
	BW 40	MCS0	2.384	2.399	0.994	0.028
	BW 80	MCS0	2.419	2.435	0.994	0.027
	BW 160	MCS0	5.445	5.461	0.997	0.012

continuous wave. (Duty Cycle > 98%)

10.1.2 802.11 a Duty Cycle

Mode	Data Rate (Mbps)	T_{on} (ms)	T_{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11a	6 Mbps	1.467	1.500	0.978	0.096

Note:

1. Duty Cycle Factor = 10·log(1/Duty Cycle). where, Duty Cycle = T_{on} / T_{total}

10.2 26 dB BANDWIDTH& 99% BANDWIDTH

10.2.1 26 dB BANDWIDTH(Indoor client)

10.2.1.1 Ant1

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	20.82	20.84	21.85	-	-
			Mid	18.50	18.75	-	22.49	21.05
			High	20.64	20.58	21.42	-	-
	6175	45	Low	20.72	21.23	21.48	-	-
			Mid	18.38	19.27	-	23.16	21.12
			High	20.67	20.52	21.11	-	-
	6415	93	Low	20.58	21.22	21.55	-	-
			Mid	18.72	18.99	-	22.60	21.02
			High	20.42	20.44	21.21	-	-
UNII 6	6435	97	Low	20.61	20.31	21.51	-	-
			Mid	18.68	19.31	-	22.47	21.02
			High	20.77	20.60	21.16	-	-
	6475	105	Low	20.62	21.08	21.62	-	-
			Mid	18.97	19.24	-	22.40	20.93
			High	20.54	20.69	21.10	-	-
	6515	113	Low	20.17	20.93	21.65	-	-
			Mid	18.82	19.22	-	22.31	20.90
			High	20.80	20.25	21.41	-	-
UNII 7	6535	117	Low	20.67	21.15	21.65	-	-
			Mid	18.52	18.91	-	22.19	20.81
			High	20.59	20.78	21.11	-	-
	6695	149	Low	20.63	21.14	21.61	-	-
			Mid	18.90	19.34	-	22.48	20.98
			High	20.67	20.65	21.15	-	-
	6875	185	Low	20.62	20.76	21.79	-	-
			Mid	18.86	19.30	-	22.38	20.89
			High	20.73	20.66	21.15	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 8	6895	189	Low	20.35	21.13	21.53	-	-
			Mid	18.75	18.97	-	22.62	21.12
			High	20.57	20.44	21.27	-	-
	6995	209	Low	20.82	20.94	21.69	-	-
			Mid	18.89	19.49	-	22.46	21.06
			High	20.62	21.29	21.50	-	-
	7115	233	Low	20.51	21.35	21.86	-	-
			Mid	18.95	19.42	-	22.45	21.04
			High	20.58	20.63	21.27	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	40.68	40.60	41.18	42.17	-	-
			Mid	38.14	38.45	39.32	-	44.52	40.84
			High	40.23	41.31	41.74	41.76	-	-
	6165	43	Low	40.37	40.64	41.42	42.17	-	-
			Mid	38.14	38.64	39.35	-	44.42	40.71
			High	40.53	40.51	41.69	42.28	-	-
	6405	91	Low	40.49	41.12	41.64	42.04	-	-
			Mid	38.06	38.23	39.43	-	44.16	40.68
			High	40.37	41.21	41.75	42.44	-	-
UNII 6	6445	99	Low	40.03	40.62	41.62	41.99	-	-
			Mid	38.20	38.45	39.44	-	44.12	40.71
			High	41.15	40.77	41.60	41.70	-	-
	6485	107	Low	40.71	40.78	41.51	41.67	-	-
			Mid	38.16	38.39	39.47	-	44.53	40.89
			High	40.43	40.48	41.79	42.34	-	-
	6525	115	Low	40.30	41.07	41.73	41.69	-	-
			Mid	38.18	38.31	39.34	-	44.30	40.67
			High	40.72	40.87	41.88	42.27	-	-
UNII 7	6565	123	Low	40.45	41.15	41.57	42.29	-	-
			Mid	37.99	38.38	38.68	-	44.81	40.81
			High	40.71	40.64	41.99	41.89	-	-
	6685	147	Low	40.05	41.15	41.52	42.15	-	-
			Mid	38.10	38.45	39.42	-	44.26	40.65
			High	40.74	41.01	41.83	42.31	-	-
	6845	179	Low	40.39	40.91	41.22	42.82	-	-
			Mid	37.70	38.40	39.62	-	44.35	40.66
			High	39.85	40.70	41.52	41.92	-	-
UNII 8	6885	187	Low	40.49	41.23	41.51	42.36	-	-
			Mid	38.16	38.23	39.41	-	44.61	40.94
			High	40.48	41.41	41.23	42.39	-	-
	7005	211	Low	40.41	40.81	41.52	42.55	-	-
			Mid	38.22	38.24	39.20	-	44.80	40.67
			High	40.18	40.60	40.78	42.17	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
	7085	227	Low	40.46	40.16	41.42	41.69	-	-
			Mid	38.08	38.51	39.27	-	44.46	40.89
			High	40.61	40.58	41.78	41.88	-	-

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	82.24	83.96	84.32	82.94	86.84	-	-
			Mid	78.48	78.35	79.91	80.54	-	88.24	82.33
			High	81.24	82.09	82.57	82.92	86.68	-	-
	6145	39	Low	83.25	82.37	84.50	83.61	85.79	-	-
			Mid	78.46	78.55	78.61	80.37	-	87.62	81.92
			High	80.90	82.51	83.96	82.13	86.06	-	-
	6385	87	Low	82.62	82.86	83.70	83.23	86.33	-	-
			Mid	78.50	79.00	79.47	80.77	-	89.00	82.85
			High	82.44	83.04	83.32	82.93	85.63	-	-
UNII 6	6465	103	Low	81.62	83.14	84.56	84.81	86.92	-	-
			Mid	78.51	78.26	80.02	80.54	-	88.08	82.64
			High	82.63	82.39	83.07	82.28	85.49	-	-
UNII 7	6545	119	Low	82.17	82.66	84.09	83.09	85.51	-	-
			Mid	78.24	78.48	79.97	80.67	-	87.69	81.87
			High	81.00	83.05	83.10	83.60	85.14	-	-
	6705	151	Low	81.99	83.16	83.06	83.84	86.62	-	-
			Mid	78.40	77.81	79.20	80.53	-	89.70	82.33
			High	81.87	83.34	82.72	84.24	85.07	-	-
	6865	183	Low	81.74	83.44	83.90	83.93	86.04	-	-
			Mid	78.37	78.43	79.61	80.73	-	89.16	82.50
			High	81.57	83.15	82.57	82.90	85.73	-	-
UNII 8	6945	199	Low	81.75	83.51	83.64	83.70	86.05	-	-
			Mid	78.56	78.67	79.74	80.58	-	89.21	82.30
			High	81.73	82.24	82.82	81.33	85.07	-	-
	7025	215	Low	81.74	83.89	84.55	83.35	86.12	-	-
			Mid	77.56	78.71	79.22	81.03	-	89.90	82.36
			High	81.29	83.17	82.80	81.69	84.71	-	-

802.11ax(HE160 80L)

HE80_L	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	163.8	163.9	168.2	164.8	167.6	-
			Mid	158.5	158.7	159.6	160.2	-	165.4
			High	158.3	158.4	158.8	159.8	161.5	-
	6185	47	Low	162.3	165.3	164.5	164.3	173.5	-
			Mid	158.4	158.8	159.6	160.4	-	166.8
			High	157.9	158.2	159.4	159.4	161.6	-
	6345	79	Low	164.4	165.4	165.9	164.9	168.1	-
			Mid	158.0	156.9	159.9	160.4	-	166.9
			High	157.8	158.0	159.5	159.8	162.2	-
UNII 6	6505	111	Low	162.0	163.9	166.1	169.1	165.5	-
			Mid	157.8	158.3	158.0	159.8	-	164.5
			High	158.2	158.3	158.4	160.6	161.2	-
UNII 7	6665	143	Low	162.9	162.6	165.0	163.9	167.7	-
			Mid	158.2	157.9	158.7	159.0	-	168.5
			High	154.3	158.4	159.1	160.8	161.5	-
	6825	175	Low	163.4	163.7	166.2	165.9	164.7	-
			Mid	157.5	158.2	159.4	156.1	-	165.6
			High	157.3	157.4	159.8	160.1	161.9	-
UNII 8	6985	207	Low	163.9	164.1	167.0	164.9	166.8	-
			Mid	157.6	158.4	153.3	159.5	-	168.4
			High	158.1	157.4	159.4	160.5	159.7	-

802.11ax(HE160 80U)

HE80_U	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	158.2	158.7	159.3	159.5	161.4	-
			Mid	158.4	156.9	159.3	160.1	-	165.8
			High	163.3	163.6	168.0	165.1	166.4	-
	6185	47	Low	158.5	157.7	159.4	160.0	161.0	-
			Mid	157.2	158.3	159.6	159.5	-	165.7
			High	163.3	163.6	165.0	165.9	166.2	-
	6345	79	Low	156.9	158.5	159.0	160.0	161.6	-
			Mid	157.7	158.2	159.3	160.0	-	165.6
			High	163.4	163.5	169.6	164.0	165.6	-
UNII 6	6505	111	Low	155.9	158.2	159.6	159.6	161.2	-
			Mid	158.3	158.5	159.6	159.1	-	165.3
			High	163.2	164.2	163.5	176.7	167.1	-
UNII 7	6665	143	Low	157.6	158.1	159.3	160.1	161.5	-
			Mid	155.7	158.0	159.3	160.2	-	168.0
			High	164.1	164.3	168.9	165.0	166.3	-
	6825	175	Low	155.9	158.2	159.7	159.7	162.1	-
			Mid	158.1	157.0	158.9	160.5	-	167.4
			High	164.1	163.6	164.3	164.8	165.5	-
UNII 8	6985	207	Low	158.2	158.6	159.7	158.6	162.0	-
			Mid	158.5	158.3	159.7	160.1	-	166.7
			High	162.9	164.3	168.5	165.3	167.1	-

802.11ax(HE160 SU)

HE160_SU	Frequency [MHz]	Channel No.	26 dB BW (MHz)
UNII 5	6025	15	165.0
	6185	47	164.6
	6345	79	165.4
UNII 6	6505	111	164.8
UNII 7	6665	143	164.0
	6825	175	164.4
UNII 8	6985	207	164.9

802.11a

802.11a	Frequency [MHz]	Channel No.	26 dB BW (MHz)
UNII 5	5935	2	19.25
	6175	45	18.99
	6415	93	19.13
UNII 6	6435	97	19.15
	6475	105	19.06
	6515	113	19.03
UNII 7	6535	117	19.11
	6695	149	19.25
	6875	185	19.08
UNII 8	6895	189	19.17
	6995	209	19.03
	7115	233	19.01

10.2.1.2 Ant2

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	20.60	20.89	21.73	-	-
			Mid	18.84	19.21	-	22.60	20.89
			High	20.62	20.84	20.91	-	-
	6175	45	Low	20.87	20.99	21.64	-	-
			Mid	18.47	19.40	-	22.43	21.37
			High	20.71	20.30	21.11	-	-
	6415	93	Low	20.52	21.10	21.43	-	-
			Mid	18.74	19.03	-	22.38	20.81
			High	20.55	20.42	21.41	-	-
UNII 6	6435	97	Low	20.60	21.24	21.64	-	-
			Mid	18.82	19.22	-	22.72	20.95
			High	20.77	20.66	21.43	-	-
	6475	105	Low	20.77	21.07	21.60	-	-
			Mid	18.92	19.49	-	22.82	21.21
			High	20.66	20.77	21.35	-	-
	6515	113	Low	20.91	20.71	21.72	-	-
			Mid	18.88	19.39	-	22.28	20.78
			High	20.57	20.40	20.99	-	-
UNII 7	6535	117	Low	20.38	21.02	21.35	-	-
			Mid	18.65	19.51	-	22.48	21.16
			High	20.51	20.48	21.41	-	-
	6695	149	Low	20.81	21.23	21.36	-	-
			Mid	18.57	19.26	-	22.59	20.99
			High	20.83	20.49	21.03	-	-
	6875	185	Low	20.54	21.09	21.84	-	-
			Mid	18.15	19.03	-	22.51	21.27
			High	20.58	20.46	21.11	-	-
UNII 8	6895	189	Low	20.55	21.05	21.63	-	-
			Mid	18.56	19.42	-	22.66	21.06
			High	20.40	21.14	21.34	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
	6995	209	Low	20.45	20.97	21.80	-	-
			Mid	18.94	19.21	-	22.42	20.87
			High	20.82	20.57	21.47	-	-
	7115	233	Low	20.71	21.11	21.68	-	-
			Mid	18.68	19.41	-	22.35	20.87
			High	20.75	20.43	21.38	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	40.52	40.99	41.38	42.32	-	-
			Mid	38.06	38.24	39.43	-	44.74	40.55
			High	39.69	40.74	41.71	41.80	-	-
	6165	43	Low	40.52	40.69	41.65	41.75	-	-
			Mid	38.16	38.35	39.41	-	44.43	40.36
			High	40.55	41.33	42.04	42.03	-	-
	6405	91	Low	40.78	40.97	41.54	42.31	-	-
			Mid	38.04	38.28	39.34	-	44.63	40.64
			High	40.76	41.16	40.69	42.29	-	-
UNII 6	6445	99	Low	40.48	41.34	41.58	42.04	-	-
			Mid	38.02	38.28	39.23	-	44.93	40.36
			High	40.34	40.93	42.09	42.10	-	-
	6485	107	Low	40.55	41.22	41.35	42.14	-	-
			Mid	38.09	38.37	39.50	-	44.44	40.50
			High	40.44	40.80	41.70	41.33	-	-
	6525	115	Low	40.41	41.02	41.45	42.19	-	-
			Mid	38.06	38.42	39.28	-	44.51	40.73
			High	40.51	40.84	42.08	41.42	-	-
UNII 7	6565	123	Low	40.41	41.11	41.20	42.00	-	-
			Mid	38.13	38.27	38.08	-	44.60	40.80
			High	40.35	41.09	41.02	41.75	-	-
	6685	147	Low	40.61	40.93	41.45	42.35	-	-
			Mid	37.92	38.43	39.31	-	45.22	40.80
			High	40.45	41.02	41.76	41.73	-	-
	6845	179	Low	41.19	41.04	41.43	42.20	-	-
			Mid	38.07	38.20	39.65	-	45.26	40.72
			High	40.35	40.63	41.74	41.92	-	-
UNII 8	6885	187	Low	40.40	40.47	41.40	41.96	-	-
			Mid	38.14	38.29	39.65	-	45.06	40.51
			High	40.16	40.84	41.81	41.68	-	-
	7005	211	Low	40.32	40.98	41.16	42.01	-	-
			Mid	38.15	38.47	39.18	-	44.49	40.84
			High	40.30	41.09	41.21	41.61	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
	7085	227	Low	40.51	41.00	41.09	42.92	-	-
			Mid	38.03	38.36	39.44	-	44.46	40.63
			High	40.85	41.02	42.18	42.58	-	-

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	82.35	83.00	84.26	83.42	85.32	-	-
			Mid	78.36	78.70	79.66	80.71	-	88.50	82.07
			High	81.20	82.55	82.66	82.85	84.47	-	-
	6145	39	Low	82.33	83.52	84.48	83.68	87.46	-	-
			Mid	78.13	78.43	79.77	79.76	-	88.37	82.30
			High	80.67	82.85	83.71	82.73	84.87	-	-
	6385	87	Low	81.80	83.84	83.93	83.05	85.61	-	-
			Mid	77.47	78.68	79.92	81.07	-	88.17	82.17
			High	82.22	83.84	82.65	83.62	85.33	-	-
UNII 6	6465	103	Low	82.42	83.24	82.82	84.04	87.70	-	-
			Mid	78.23	78.74	78.88	80.58	-	87.45	82.11
			High	80.77	83.38	83.15	83.57	84.88	-	-
UNII 7	6545	119	Low	82.20	83.35	84.55	84.11	86.90	-	-
			Mid	78.18	78.37	79.84	81.10	-	107.09	81.94
			High	81.71	82.41	83.14	83.02	85.99	-	-
	6705	151	Low	82.17	83.74	84.03	83.79	85.08	-	-
			Mid	78.37	78.61	79.07	80.46	-	89.10	82.54
			High	81.02	83.15	84.06	84.10	83.70	-	-
	6865	183	Low	81.93	83.44	84.39	83.92	86.74	-	-
			Mid	78.57	78.98	79.60	80.45	-	88.18	82.76
			High	81.83	82.30	82.75	82.62	84.16	-	-
UNII 8	6945	199	Low	81.61	83.42	83.67	84.72	86.30	-	-
			Mid	78.33	78.96	79.89	79.35	-	87.82	81.98
			High	81.97	83.36	84.58	82.75	84.49	-	-
	7025	215	Low	82.31	82.64	84.48	84.05	84.79	-	-
			Mid	78.40	78.61	79.75	80.27	-	87.92	81.95
			High	81.82	82.85	83.21	82.62	84.27	-	-

802.11ax(HE160 80L)

HE80_L	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	162.9	163.1	165.1	165.4	168.8	-
			Mid	158.4	158.0	159.4	159.8	-	168.2
			High	158.7	158.2	159.0	159.7	161.2	-
	6185	47	Low	163.7	164.0	165.2	164.6	168.1	-
			Mid	157.9	157.9	158.8	160.0	-	165.5
			High	156.8	158.6	159.4	159.7	161.4	-
	6345	79	Low	164.2	163.7	165.7	164.6	167.8	-
			Mid	158.2	158.6	158.9	160.2	-	164.8
			High	157.2	158.6	158.5	160.2	161.9	-
UNII 6	6505	111	Low	163.8	163.9	166.4	165.6	168.6	-
			Mid	157.9	157.5	159.6	160.2	-	169.3
			High	157.2	155.4	159.0	159.4	160.8	-
UNII 7	6665	143	Low	163.4	163.1	165.7	164.5	167.6	-
			Mid	157.9	158.6	159.3	158.9	-	166.0
			High	157.6	158.8	159.5	159.9	161.7	-
	6825	175	Low	162.9	163.2	163.7	164.0	169.1	-
			Mid	157.6	157.4	159.0	159.9	-	170.7
			High	157.4	158.2	159.7	160.1	161.6	-
UNII 8	6985	207	Low	161.9	164.0	165.9	165.0	169.1	-
			Mid	157.2	158.3	157.7	159.4	-	165.5
			High	158.1	158.4	159.6	159.8	157.4	-

802.11ax(HE160 80U)

HE80_U	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	157.6	158.1	159.4	160.1	160.2	-
			Mid	158.7	158.8	158.8	160.1	-	167.3
			High	161.9	164.2	164.0	164.6	166.5	-
	6185	47	Low	157.2	158.7	159.2	159.7	160.9	-
			Mid	158.0	157.9	159.4	160.2	-	167.2
			High	163.8	163.5	164.0	163.4	164.7	-
	6345	79	Low	157.7	158.4	159.7	158.8	161.3	-
			Mid	157.7	158.6	159.3	157.9	-	166.2
			High	162.5	163.3	164.1	167.1	164.5	-
UNII 6	6505	111	Low	156.7	158.6	159.3	160.2	163.0	-
			Mid	158.5	158.4	160.1	158.9	-	166.9
			High	162.8	164.4	164.9	164.5	167.3	-
UNII 7	6665	143	Low	157.5	158.2	159.2	160.0	162.4	-
			Mid	158.0	158.1	160.1	160.1	-	167.4
			High	162.8	164.4	164.6	164.4	168.8	-
	6825	175	Low	157.9	158.6	159.0	159.3	162.9	-
			Mid	158.7	158.7	159.4	158.9	-	168.1
			High	163.6	164.7	164.9	163.9	165.9	-
UNII 8	6985	207	Low	158.4	159.0	159.2	160.3	162.1	-
			Mid	158.2	157.5	159.5	159.7	-	166.9
			High	162.4	163.2	164.5	164.8	164.4	-

802.11ax(HE160 SU)

HE160_SU	Frequency [MHz]	Channel No.	26 dB BW (MHz)
UNII 5	6025	15	165.1
	6185	47	166.3
	6345	79	164.9
UNII 6	6505	111	164.9
UNII 7	6665	143	165.2
	6825	175	164.4
UNII 8	6985	207	165.3

802.11a

802.11a	Frequency [MHz]	Channel No.	26 dB BW (MHz)
UNII 5	5935	2	19.05
	6175	45	19.00
	6415	93	19.01
UNII 6	6435	97	19.11
	6475	105	19.13
	6515	113	19.12
UNII 7	6535	117	19.08
	6695	149	19.10
	6875	185	19.22
UNII 8	6895	189	19.16
	6995	209	19.19
	7115	233	19.16

10.2.2 99% BANDWIDTH(Indoor client)

10.2.2.1 Ant1

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	18.55	18.33	18.34	-	-
			Mid	17.36	17.25	-	19.09	18.92
			High	18.69	18.27	18.37	-	-
	6175	45	Low	18.52	18.42	18.32	-	-
			Mid	17.29	17.20	-	19.09	18.94
			High	18.56	18.29	18.36	-	-
	6415	93	Low	18.61	18.25	18.21	-	-
			Mid	16.74	17.09	-	19.08	18.93
			High	18.64	18.29	18.39	-	-
UNII 6	6435	97	Low	18.50	18.06	18.17	-	-
			Mid	16.91	17.22	-	19.11	18.92
			High	18.57	18.37	18.36	-	-
	6475	105	Low	18.59	18.28	18.20	-	-
			0	17.35	16.98	-	19.10	18.92
			High	18.55	18.35	18.37	-	-
	6515	113	Low	18.40	18.32	18.38	-	-
			Mid	17.06	16.97	-	19.07	18.95
			High	18.59	18.25	18.41	-	-
UNII 7	6535	117	Low	18.52	18.15	18.29	-	-
			Mid	17.21	17.23	-	19.07	18.90
			High	18.61	18.34	18.32	-	-
	6695	149	Low	18.64	18.37	18.32	-	-
			Mid	17.29	17.24	-	19.10	18.93
			High	18.70	18.24	18.14	-	-
	6875	185	Low	18.57	18.35	18.37	-	-
			Mid	17.21	17.26	-	19.09	18.91
			High	18.68	18.25	18.33	-	-
UNII 8	6895	189	Low	18.48	18.37	18.37	-	-
			Mid	17.24	17.14	-	19.08	18.93

HE20	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)				
				26 T	52 T	106 T	242 T	SU
			High	18.53	18.34	18.38	-	-
	6995	209	Low	18.57	18.31	18.40	-	-
			Mid	17.23	17.19	-	18.91	18.93
			High	18.64	18.35	18.42	-	-
	7115	233	Low	18.45	18.34	18.30	-	-
			Mid	17.22	17.28	-	18.93	18.92
			High	18.61	18.34	18.22	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	38.28	37.87	37.37	37.44	-	-
			Mid	36.09	36.33	36.43	-	38.08	37.76
			High	38.07	37.90	37.65	37.49	-	-
	6165	43	Low	38.15	37.90	37.45	37.44	-	-
			Mid	36.38	36.43	36.50	-	38.04	37.77
			High	38.30	37.74	37.63	37.50	-	-
	6405	91	Low	38.11	37.76	37.24	37.28	-	-
			Mid	36.06	36.26	35.83	-	38.07	37.74
			High	38.12	37.99	37.42	37.51	-	-
UNII 6	6445	99	Low	38.08	37.77	37.39	37.39	-	-
			Mid	36.17	36.49	36.00	-	38.03	37.76
			High	38.37	37.71	37.43	37.41	-	-
	6485	107	Low	38.21	37.80	37.39	37.23	-	-
			Mid	36.06	36.51	36.29	-	38.10	37.75
			High	38.06	37.59	37.66	37.55	-	-
	6525	115	Low	37.91	37.73	37.51	37.39	-	-
			Mid	36.37	36.36	36.37	-	38.05	37.76
			High	38.34	37.65	37.66	37.42	-	-
UNII 7	6565	123	Low	38.10	37.76	37.38	37.44	-	-
			Mid	36.20	36.41	36.49	-	38.05	37.73
			High	38.31	37.78	37.62	37.53	-	-
	6685	147	Low	37.95	37.79	37.45	37.45	-	-
			Mid	36.10	36.19	36.30	-	38.06	37.73
			High	38.23	37.84	37.59	37.41	-	-
	6845	179	Low	38.08	37.89	37.48	37.39	-	-
			Mid	35.81	36.27	36.29	-	38.07	37.75
			High	37.73	37.60	37.57	37.56	-	-
UNII 8	6885	187	Low	38.12	37.82	37.32	37.34	-	-
			Mid	36.40	36.41	36.52	-	38.07	37.75
			High	38.31	37.70	37.67	37.60	-	-
	7005	211	Low	38.20	37.94	37.46	37.36	-	-
			Mid	36.26	36.43	36.51	-	38.10	37.75
			High	38.06	37.57	37.57	37.61	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
	7085	227	Low	38.19	37.47	37.47	37.49	-	-
			Mid	36.32	36.36	36.40	-	38.09	37.75
			High	37.96	37.69	37.62	37.15	-	-

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	79.19	78.32	77.62	76.95	76.93	-	-
			Mid	75.22	75.02	75.33	75.32	-	77.79	77.20
			High	78.59	77.81	76.59	76.79	76.73	-	-
	6145	39	Low	79.21	78.27	77.86	77.09	76.73	-	-
			Mid	75.13	74.95	74.50	75.36	-	77.78	77.18
			High	78.38	78.27	77.33	76.77	76.68	-	-
	6385	87	Low	78.73	77.82	77.55	77.35	76.88	-	-
			Mid	75.28	74.88	75.17	75.24	-	77.75	77.32
			High	78.76	78.32	77.31	76.99	76.82	-	-
UNII 6	6465	103	Low	78.76	78.20	77.59	77.05	76.62	-	-
			Mid	75.46	74.69	75.44	75.10	-	77.77	77.23
			High	78.78	78.09	77.46	76.97	76.75	-	-
UNII 7	6545	119	Low	78.84	78.40	77.47	77.14	76.89	-	-
			Mid	75.18	74.71	75.22	74.87	-	77.78	77.10
			High	78.68	78.16	77.33	77.03	76.64	-	-
	6705	151	Low	78.60	77.40	77.43	77.12	76.79	-	-
			Mid	75.47	74.10	75.17	75.39	-	77.83	77.33
			High	78.82	78.24	77.50	76.87	76.76	-	-
	6865	183	Low	78.77	78.14	77.45	77.11	76.59	-	-
			Mid	75.20	74.93	75.09	75.38	-	77.72	77.24
			High	78.24	77.99	77.29	76.86	76.76	-	-
UNII 8	6945	199	Low	78.75	78.07	77.70	76.95	76.90	-	-
			Mid	74.97	75.18	74.88	75.37	-	77.79	77.34
			High	78.64	78.13	77.57	76.56	76.57	-	-
	7025	215	Low	78.87	78.57	77.61	77.37	76.94	-	-
			Mid	74.26	75.00	74.76	75.28	-	77.77	77.24
			High	78.40	78.13	77.30	76.63	76.68	-	-

802.11ax(HE160 80L)

HE80_L	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	158.2	157.8	154.7	156.6	155.8	-
			Mid	152.9	152.5	153.0	151.9	-	156.1
			High	153.5	152.1	152.4	153.4	150.3	-
	6185	47	Low	158.1	158.8	157.6	155.7	156.5	-
			Mid	152.3	152.7	152.9	153.3	-	156.0
			High	152.5	152.4	152.9	152.0	152.6	-
	6345	79	Low	158.9	157.5	157.6	156.2	155.5	-
			Mid	153.0	151.1	152.6	153.4	-	156.2
			High	150.7	151.5	153.3	152.7	152.7	-
UNII 6	6505	111	Low	154.9	157.1	156.5	156.4	155.3	-
			Mid	152.9	151.6	150.8	152.5	-	155.2
			High	153.1	152.6	151.4	152.4	153.1	-
UNII 7	6665	143	Low	158.3	156.7	156.9	155.7	155.5	-
			Mid	152.6	152.4	152.1	152.6	-	155.1
			High	149.5	152.2	146.8	153.6	152.4	-
	6825	175	Low	158.8	157.7	156.3	156.1	155.2	-
			Mid	152.2	152.2	152.4	149.6	-	155.2
			High	152.9	152.1	152.5	153.5	152.3	-
UNII 8	6985	207	Low	158.2	157.1	157.5	156.0	155.7	-
			Mid	152.6	152.0	145.7	152.7	-	155.9
			High	152.8	151.8	152.5	153.2	151.8	-

802.11ax(HE160 80U)

HE80_U	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	152.7	152.3	152.5	152.6	152.6	-
			Mid	153.1	150.7	152.2	152.4	-	155.6
			High	158.9	157.1	158.3	155.8	155.6	-
	6185	47	Low	153.7	151.3	153.0	152.0	152.1	-
			Mid	150.9	152.0	153.0	152.1	-	155.3
			High	158.7	157.8	157.4	156.3	155.8	-
	6345	79	Low	151.1	152.9	151.4	153.3	152.7	-
			Mid	151.7	152.1	152.8	152.9	-	154.8
			High	159.3	158.6	158.3	155.7	155.9	-
UNII 6	6505	111	Low	150.9	152.1	152.6	152.9	153.6	-
			Mid	152.6	153.2	152.8	151.4	-	155.9
			High	159.3	158.2	156.2	157.2	155.9	-
UNII 7	6665	143	Low	152.3	153.2	152.9	153.4	152.8	-
			Mid	150.1	152.2	152.0	153.7	-	156.0
			High	159.0	157.4	158.3	156.4	155.1	-
	6825	175	Low	150.1	152.6	153.2	151.6	153.1	-
			Mid	152.6	151.3	152.6	152.4	-	155.6
			High	159.2	153.2	157.2	156.7	156.3	-
UNII 8	6985	207	Low	153.5	152.8	153.2	151.9	153.3	-
			Mid	153.5	152.1	153.4	153.7	-	155.9
			High	158.1	158.0	158.8	156.6	156.4	-

802.11ax(HE160 SU)

HE160_SU	Frequency [MHz]	Channel No.	OBW (MHz)
UNII 5	6025	15	156.2
	6185	47	156.0
	6345	79	156.2
UNII 6	6505	111	156.3
UNII 7	6665	143	156.2
	6825	175	156.1
UNII 8	6985	207	156.0

802.11 a

802.11a	Frequency [MHz]	Channel No.	OBW (MHz)
UNII 5	5935	2	16.37
	6175	45	16.36
	6415	93	16.36
UNII 6	6435	97	16.36
	6475	105	16.36
	6515	113	16.37
UNII 7	6535	117	16.37
	6695	149	16.37
	6875	185	16.37
UNII 8	6895	189	16.37
	6995	209	16.37
	7115	233	16.36

10.2.2.2 Ant2

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	18.59	18.32	18.31	-	-
			Mid	17.38	17.17	-	19.07	18.95
			High	18.56	18.21	18.10	-	-
	6175	45	Low	18.36	18.36	18.33	-	-
			Mid	17.22	17.20	-	19.10	18.94
			High	18.59	18.27	18.39	-	-
	6415	93	Low	18.59	18.36	18.02	-	-
			Mid	17.27	17.16	-	19.08	18.91
			High	18.60	18.33	18.46	-	-
UNII 6	6435	97	Low	18.55	18.36	18.37	-	-
			Mid	17.08	17.04	-	19.08	18.90
			High	18.50	18.22	18.36	-	-
	6475	105	Low	18.55	18.12	17.97	-	-
			Mid	17.20	16.86	-	19.10	18.92
			High	18.60	18.27	18.21	-	-
	6515	113	Low	18.48	18.36	18.36	-	-
			Mid	17.12	17.18	-	19.07	18.92
			High	18.72	18.31	18.40	-	-
UNII 7	6535	117	Low	18.49	18.35	18.32	-	-
			Mid	17.07	16.87	-	19.10	18.93
			High	18.52	18.29	18.41	-	-
	6695	149	Low	18.46	18.36	18.38	-	-
			Mid	17.35	17.02	-	19.08	18.93
			High	18.46	18.28	18.37	-	-
	6875	185	Low	18.54	18.37	18.41	-	-
			Mid	17.23	17.02	-	19.07	18.91
			High	18.63	18.33	18.41	-	-
UNII 8	6895	189	Low	18.58	18.34	18.27	-	-
			Mid	17.21	17.20	-	19.08	18.93
			High	18.45	18.18	18.37	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)				
				26 T	52 T	106 T	242 T	SU
	6995	209	Low	18.55	18.36	18.35	-	-
			Mid	17.30	17.20	-	18.91	18.92
			High	18.75	18.16	18.44	-	-
	7115	233	Low	18.54	18.44	18.24	-	-
			Mid	17.25	17.27	-	18.93	18.93
			High	18.31	18.05	18.38	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	38.21	37.85	37.32	37.38	-	-
			Mid	36.45	36.36	36.25	-	38.03	37.75
			High	37.60	37.56	37.41	37.42	-	-
	6165	43	Low	38.30	37.73	37.44	37.32	-	-
			Mid	36.44	36.39	36.29	-	38.04	37.72
			High	38.48	38.01	37.70	37.43	-	-
	6405	91	Low	38.31	37.86	37.42	37.47	-	-
			Mid	36.32	36.12	36.56	-	38.04	37.73
			High	38.25	37.62	37.51	37.50	-	-
UNII 6	6445	99	Low	38.07	37.86	37.49	37.35	-	-
			Mid	36.18	36.50	36.36	-	38.05	37.73
			High	38.21	37.79	37.67	37.33	-	-
	6485	107	Low	38.29	37.70	37.38	37.41	-	-
			Mid	36.30	36.34	35.67	-	38.01	37.75
			High	38.15	37.71	37.09	37.33	-	-
	6525	115	Low	38.08	37.63	37.48	37.38	-	-
			Mid	36.32	36.37	36.27	-	38.03	37.76
			High	38.41	37.79	37.62	36.65	-	-
UNII 7	6565	123	Low	37.68	37.85	37.45	37.33	-	-
			Mid	36.17	36.37	36.06	-	38.04	37.73
			High	38.20	37.86	37.49	37.50	-	-
	6685	147	Low	38.29	37.63	37.46	37.51	-	-
			Mid	36.27	36.54	36.39	-	38.05	37.75
			High	38.17	37.78	37.52	37.47	-	-
	6845	179	Low	38.27	37.72	37.50	37.40	-	-
			Mid	36.28	36.46	35.90	-	38.06	37.75
			High	38.28	37.92	37.50	37.46	-	-
UNII 8	6885	187	Low	37.93	37.70	37.30	37.39	-	-
			Mid	36.17	36.45	36.21	-	38.06	37.76
			High	38.23	37.60	36.91	37.46	-	-
	7005	211	Low	38.05	37.64	37.32	37.47	-	-
			Mid	36.26	36.34	36.52	-	38.07	37.76
			High	38.22	37.81	37.77	37.32	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
	7085	227	Low	37.92	37.66	37.37	37.36	-	-
			Mid	36.38	36.31	35.86	-	38.02	37.74
			High	38.27	37.82	37.75	37.54	-	-

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	78.93	78.35	77.73	77.21	76.90	-	-
			Mid	75.25	75.10	75.17	75.07	-	77.77	77.19
			High	78.24	78.03	77.46	77.08	76.80	-	-
	6145	39	Low	79.40	78.14	77.69	77.11	76.74	-	-
			Mid	74.70	74.72	74.98	75.52	-	77.89	77.29
			High	78.56	78.13	77.55	76.88	76.79	-	-
	6385	87	Low	79.20	78.15	77.67	77.44	76.81	-	-
			Mid	74.58	74.37	75.36	75.19	-	77.83	77.14
			High	78.88	78.10	76.99	76.83	76.72	-	-
UNII 6	6465	103	Low	79.27	78.44	77.57	77.35	77.13	-	-
			Mid	75.10	74.97	75.07	75.33	-	77.75	77.25
			High	78.31	78.39	77.30	76.88	76.55	-	-
UNII 7	6545	119	Low	79.09	78.46	77.54	77.19	76.90	-	-
			Mid	74.83	74.96	74.56	75.21	-	77.94	77.20
			High	78.68	78.04	77.46	77.05	76.78	-	-
	6705	151	Low	78.55	77.69	77.81	77.02	76.95	-	-
			Mid	74.97	74.95	74.97	75.08	-	77.82	77.24
			High	78.48	78.43	77.58	76.38	76.68	-	-
	6865	183	Low	78.66	78.32	77.67	77.12	76.95	-	-
			Mid	75.40	75.14	75.17	74.89	-	77.72	77.30
			High	78.95	77.82	77.27	76.76	76.66	-	-
UNII 8	6945	199	Low	78.50	78.15	77.66	77.15	76.93	-	-
			Mid	75.38	74.69	75.35	74.87	-	77.64	77.28
			High	78.80	78.17	77.46	76.81	76.73	-	-
	7025	215	Low	79.06	78.48	77.52	76.89	76.94	-	-
			Mid	75.11	75.03	75.28	75.19	-	77.74	77.23
			High	78.59	78.22	77.49	77.00	76.77	-	-

802.11ax(HE160 80L)

HE80_L	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	157.8	157.3	156.9	155.9	155.5	-
			Mid	153.6	152.0	152.5	151.0	-	155.2
			High	152.2	152.7	152.6	152.8	152.4	-
	6185	47	Low	158.7	157.8	156.9	156.5	155.9	-
			Mid	152.6	151.9	152.3	153.0	-	155.7
			High	152.8	153.1	152.9	152.2	152.8	-
	6345	79	Low	159.1	157.8	156.8	155.8	155.5	-
			Mid	153.4	151.6	152.6	153.2	-	155.4
			High	152.7	152.8	147.6	153.1	152.7	-
UNII 6	6505	111	Low	159.0	157.8	157.0	156.4	155.6	-
			Mid	152.5	150.5	151.3	153.0	-	156.2
			High	152.9	150.0	151.6	151.7	153.0	-
UNII 7	6665	143	Low	158.2	157.6	156.7	156.2	156.5	-
			Mid	150.6	151.7	151.2	152.3	-	156.2
			High	152.3	153.2	153.1	152.3	152.2	-
	6825	175	Low	157.7	157.6	157.2	155.3	155.4	-
			Mid	152.0	151.5	152.7	153.2	-	156.3
			High	152.8	152.1	153.3	152.5	152.1	-
UNII 8	6985	207	Low	156.8	157.0	156.8	156.7	155.5	-
			Mid	151.6	151.8	150.8	152.9	-	155.1
			High	151.6	152.3	152.7	152.8	150.8	-

802.11ax(HE160 80U)

HE80_U	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	152.6	152.4	152.9	153.3	152.1	-
			Mid	152.1	152.8	152.3	152.8	-	155.8
			High	158.9	158.3	157.0	156.5	156.3	-
	6185	47	Low	152.5	152.6	153.5	152.7	153.1	-
			Mid	152.8	152.4	153.5	153.3	-	156.0
			High	157.9	158.2	157.4	155.7	155.9	-
	6345	79	Low	152.4	152.8	153.2	151.8	152.5	-
			Mid	152.4	152.4	151.8	151.6	-	155.6
			High	158.1	158.2	157.1	154.4	155.8	-
UNII 6	6505	111	Low	151.9	152.3	153.0	152.5	152.2	-
			Mid	152.7	152.2	153.0	152.5	-	155.8
			High	157.6	158.1	157.4	156.4	156.3	-
UNII 7	6665	143	Low	151.9	152.0	152.4	153.1	153.3	-
			Mid	152.6	152.3	152.2	152.8	-	155.7
			High	158.5	157.6	156.2	155.2	156.5	-
	6825	175	Low	151.2	152.0	151.5	152.3	152.7	-
			Mid	153.2	151.8	147.3	152.2	-	156.0
			High	159.5	158.6	157.1	155.8	154.7	-
UNII 8	6985	207	Low	153.2	152.8	152.9	153.5	152.6	-
			Mid	153.2	151.5	153.6	152.8	-	155.9
			High	158.2	158.2	157.3	156.3	154.9	-

802.11ax(HE160 SU)

HE160_SU	Frequency [MHz]	Channel No.	OBW (MHz)
UNII 5	6025	15	156.2
	6185	47	156.4
	6345	79	156.3
UNII 6	6505	111	156.1
UNII 7	6665	143	156.1
	6825	175	156.0
UNII 8	6985	207	156.2

802.11 a

802.11a	Frequency [MHz]	Channel No.	OBW (MHz)
UNII 5	5935	2	16.37
	6175	45	16.36
	6415	93	16.37
UNII 6	6435	97	16.36
	6475	105	16.36
	6515	113	16.36
UNII 7	6535	117	16.37
	6695	149	16.36
	6875	185	16.37
UNII 8	6895	189	16.37
	6995	209	16.36
	7115	233	16.37

10.2.3 26 dB BANDWIDTH(Standard client)

10.2.3.1 Ant1

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	20.19	21.11	21.46	-	-
			Mid	18.98	19.40	-	22.91	21.22
			High	20.67	20.42	21.52	-	-
	6175	45	Low	20.34	21.04	21.21	-	-
			Mid	18.90	19.17	-	22.88	21.03
			High	20.65	20.66	21.16	-	-
	6415	93	Low	20.44	20.83	21.61	-	-
			Mid	18.62	19.37	-	23.05	20.86
			High	20.66	20.99	21.03	-	-
UNII 7	6535	117	Low	20.79	21.27	21.29	-	-
			Mid	18.46	19.24	-	22.84	20.89
			High	20.94	20.82	21.33	-	-
	6695	149	Low	20.76	21.09	21.92	-	-
			Mid	18.96	19.29	-	22.94	20.84
			High	20.70	20.43	21.22	-	-
	6855	181	Low	20.46	21.12	21.62	-	-
			Mid	18.56	19.40	-	21.95	20.90
			High	20.20	20.60	21.14	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	40.48	40.57	41.44	42.42	-	-
			Mid	38.05	38.26	39.25	-	45.79	41.11
			High	40.24	41.13	41.78	41.58	-	-
	6165	43	Low	40.77	40.78	41.26	42.44	-	-
			Mid	38.28	38.41	39.42	-	45.47	40.63
			High	40.39	41.03	41.55	42.25	-	-
	6405	91	Low	40.26	41.09	41.35	42.41	-	-
			Mid	37.79	38.39	38.92	-	45.94	40.88
			High	40.53	40.90	41.17	41.86	-	-
UNII 7	6565	123	Low	40.60	41.06	41.29	41.37	-	-
			Mid	38.14	38.42	39.43	-	45.33	40.90
			High	40.43	41.28	40.87	42.66	-	-
	6685	147	Low	40.04	40.97	41.36	42.73	-	-
			Mid	38.16	38.32	39.11	-	45.24	40.72
			High	40.64	40.71	41.38	42.78	-	-
	6845	179	Low	40.26	40.84	41.61	42.98	-	-
			Mid	37.45	38.43	39.32	-	45.55	40.63
			High	40.41	41.28	40.52	42.30	-	-

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	81.80	83.20	84.38	84.11	87.31	-	-
			Mid	78.39	78.30	79.72	80.87	-	89.12	82.14
			High	81.65	82.92	83.01	82.94	84.23	-	-
	6145	39	Low	81.53	82.49	84.67	83.72	86.71	-	-
			Mid	78.42	78.30	79.62	80.80	-	88.82	81.79
			High	81.15	82.33	82.54	83.83	84.89	-	-
	6385	87	Low	82.02	83.52	83.55	83.73	87.14	-	-
			Mid	78.40	78.58	79.76	80.67	-	88.09	82.47
			High	80.68	82.55	82.49	83.90	85.39	-	-
UNII 7	6625	135	Low	81.94	83.41	83.58	84.20	86.10	-	-
			Mid	77.51	78.47	79.86	80.88	-	87.90	82.34
			High	81.43	83.07	83.28	84.45	83.77	-	-
	6705	151	Low	81.73	82.56	83.95	84.04	86.66	-	-
			Mid	78.30	78.69	79.27	80.14	-	89.47	82.87
			High	81.77	82.71	83.36	84.42	84.34	-	-
	6785	167	Low	82.09	83.02	83.94	83.43	85.67	-	-
			Mid	78.22	78.17	79.71	81.08	-	88.38	82.46
			High	81.31	82.85	83.52	84.11	85.01	-	-

802.11ax(HE160 80L)

HE80_L	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	163.8	164.8	170.0	**173.2**	169.5	-
			Mid	157.9	157.8	159.4	160.2	-	168.4
			High	158.4	158.0	159.6	159.9	161.3	-
	6185	47	Low	163.0	165.0	164.5	165.3	169.0	-
			Mid	157.7	158.2	159.4	160.1	-	161.1
			High	158.0	157.8	159.5	159.7	161.5	-
	6345	79	Low	163.1	163.4	167.7	173.0	169.1	-
			Mid	156.6	158.7	158.5	159.4	-	167.3
			High	157.8	157.8	159.6	159.8	162.1	-
UNII 7	6665	143	Low	163.2	164.0	167.9	172.9	168.5	-
			Mid	157.9	158.5	159.6	160.0	-	168.7
			High	156.2	158.2	159.8	160.3	161.3	-

802.11ax(HE160 80U)

HE80_U	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	157.8	158.3	159.3	160.7	161.7	-
			Mid	158.2	158.5	158.9	160.4	-	166.4
			High	163.4	163.8	169.7	167.0	165.6	-
	6185	47	Low	156.9	157.9	159.4	160.7	162.2	-
			Mid	158.3	158.0	159.1	160.0	-	164.6
			High	164.1	163.9	163.0	164.9	165.8	-
	6345	79	Low	157.6	158.6	159.6	160.2	161.0	-
			Mid	157.5	157.9	158.0	159.0	-	166.9
			High	162.2	164.4	169.8	169.2	165.6	-
UNII 7	6665	143	Low	158.3	157.8	159.2	160.6	161.7	-
			Mid	158.5	157.9	159.4	159.8	-	164.8
			High	163.8	162.9	167.7	165.9	165.7	-

802.11ax(HE160 SU)

HE160_SU	Frequency [MHz]	Channel No.	26 dB BW (MHz)
UNII 5	6025	15	165.2
	6185	47	164.4
	6345	79	165.1
UNII 7	6665	143	165.4

802.11a

802.11a	Frequency [MHz]	Channel No.	26 dB BW (MHz)
UNII 5	5935	2	18.94
	6175	45	19.07
	6415	93	19.01
UNII 7	6535	117	19.12
	6695	149	19.05
	6855	181	19.03

10.2.3.2 Ant2

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	20.56	21.38	21.50	-	-
			Mid	18.40	18.84	-	22.73	20.80
			High	20.60	20.44	21.31	-	-
	6175	45	Low	20.49	20.96	21.71	-	-
			Mid	18.59	19.18	-	22.79	21.11
			High	20.71	20.52	21.22	-	-
	6415	93	Low	20.55	21.08	21.64	-	-
			Mid	18.57	19.10	-	22.79	20.81
			High	20.71	20.61	21.30	-	-
UNII 7	6535	117	Low	20.51	21.56	21.58	-	-
			Mid	18.62	19.21	-	22.57	21.14
			High	20.83	21.01	21.54	-	-
	6695	149	Low	20.57	21.08	21.64	-	-
			Mid	18.74	19.13	-	22.52	20.91
			High	20.66	20.81	21.17	-	-
	6855	181	Low	20.28	21.04	21.69	-	-
			Mid	18.68	19.34	-	22.62	21.26
			High	20.55	20.60	21.45	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	40.21	40.73	41.42	42.16	-	-
			Mid	38.07	38.39	39.22	-	44.75	40.93
			High	40.42	40.85	41.96	42.04	-	-
	6165	43	Low	40.43	40.89	41.43	41.41	-	-
			Mid	38.09	38.46	39.41	-	44.60	40.67
			High	40.22	40.98	41.59	41.75	-	-
	6405	91	Low	40.37	41.07	41.29	42.02	-	-
			Mid	38.10	38.33	38.58	-	44.28	40.71
			High	40.35	40.35	41.88	41.47	-	-
UNII 7	6565	123	Low	40.36	40.93	41.57	41.33	-	-
			Mid	38.13	38.48	39.36	-	44.46	40.68
			High	40.39	39.46	41.61	41.88	-	-
	6685	147	Low	40.33	40.68	41.12	41.79	-	-
			Mid	38.14	38.31	39.27	-	44.65	40.80
			High	40.24	40.74	41.84	41.99	-	-
	6845	179	Low	40.21	40.99	41.48	42.01	-	-
			Mid	38.09	38.23	39.20	-	44.68	40.77
			High	40.11	40.76	41.34	41.33	-	-

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	82.11	83.42	84.46	84.78	85.92	-	-
			Mid	78.50	79.10	79.77	80.27	-	87.08	82.55
			High	81.97	82.83	82.96	82.61	85.33	-	-
	6145	39	Low	81.79	83.71	83.86	83.21	85.80	-	-
			Mid	78.44	78.53	79.32	80.57	-	88.19	82.11
			High	81.27	82.78	82.84	83.15	84.98	-	-
	6385	87	Low	81.72	82.56	83.91	84.33	87.89	-	-
			Mid	78.04	78.96	80.08	81.06	-	88.71	82.28
			High	81.34	83.92	83.92	82.64	85.03	-	-
UNII 7	6625	135	Low	81.69	82.83	84.11	83.72	87.73	-	-
			Mid	78.28	78.55	79.66	81.66	-	88.48	82.11
			High	80.98	82.53	82.60	83.51	83.72	-	-
	6705	151	Low	81.60	81.84	83.82	83.34	87.31	-	-
			Mid	78.46	78.44	78.71	79.92	-	87.04	81.77
			High	80.81	82.95	83.21	83.11	84.13	-	-
	6785	167	Low	82.37	83.14	84.39	83.55	88.83	-	-
			Mid	78.01	78.97	79.06	80.62	-	89.02	82.22
			High	81.07	82.60	83.03	83.01	85.09	-	-

802.11ax(HE160 80L)

HE80_L	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	163.0	164.6	164.9	165.2	167.1	-
			Mid	157.7	158.0	159.1	159.0	-	166.6
			High	157.6	157.2	160.1	159.5	162.5	-
	6185	47	Low	163.2	164.4	166.0	167.9	170.1	-
			Mid	158.1	157.9	159.3	154.0	-	168.7
			High	157.6	158.7	159.3	160.5	162.8	-
	6345	79	Low	163.6	163.6	166.0	165.7	167.6	-
			Mid	158.3	158.5	159.6	159.6	-	168.4
			High	158.3	158.2	159.1	160.0	162.1	-
UNII 7	6665	143	Low	163.9	164.0	164.8	164.7	168.0	-
			Mid	158.1	158.1	159.4	159.5	-	166.2
			High	157.6	157.9	159.1	160.0	162.3	-

802.11ax(HE160 80U)

HE80_U	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	157.5	158.4	159.9	159.8	161.1	-
			Mid	156.6	158.6	159.5	159.3	-	164.8
			High	163.1	164.0	165.7	165.0	167.5	-
	6185	47	Low	158.2	157.9	159.8	159.9	162.4	-
			Mid	158.0	158.2	159.5	160.4	-	166.8
			High	163.6	163.8	165.3	168.9	166.3	-
	6345	79	Low	157.8	156.6	159.1	160.1	161.7	-
			Mid	155.9	158.9	158.6	160.1	-	166.7
			High	161.2	163.5	164.4	163.5	166.1	-
UNII 7	6665	143	Low	157.4	150.5	159.4	159.8	161.5	-
			Mid	158.1	158.9	159.4	159.8	-	166.3
			High	163.9	164.3	164.5	164.4	167.0	-

802.11ax(HE160 SU)

HE160_SU	Frequency [MHz]	Channel No.	26 dB BW (MHz)
UNII 5	6025	15	164.3
	6185	47	164.8
	6345	79	164.9
UNII 7	6665	143	164.8

802.11a

802.11a	Frequency [MHz]	Channel No.	26 dB BW (MHz)
UNII 5	5935	2	19.07
	6175	45	19.01
	6415	93	19.22
UNII 7	6535	117	19.17
	6695	149	19.17
	6855	181	19.19

10.2.4 99% BANDWIDTH(Standard client)

10.2.4.1 Ant1

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	18.44	17.89	18.31	-	-
			Mid	17.33	17.27	-	19.15	18.95
			High	18.70	18.31	18.20	-	-
	6175	45	Low	18.18	18.32	18.37	-	-
			Mid	17.10	17.27	-	19.12	18.92
			High	18.68	18.27	18.35	-	-
	6415	93	Low	18.59	18.36	18.20	-	-
			Mid	17.08	17.10	-	19.15	18.93
			High	18.73	18.34	18.39	-	-
UNII 7	6535	117	Low	18.55	18.36	18.34	-	-
			Mid	17.18	17.30	-	19.17	18.92
			High	18.84	18.27	18.25	-	-
	6695	149	Low	18.53	18.05	18.24	-	-
			Mid	17.34	17.29	-	19.16	18.91
			High	18.67	18.30	18.35	-	-
	6855	181	Low	18.51	18.33	18.38	-	-
			Mid	17.23	16.98	-	19.11	18.93
			High	18.70	18.24	18.37	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	37.92	37.85	37.31	37.29	-	-
			Mid	36.17	36.29	36.51	-	38.10	37.77
			High	38.03	37.89	37.21	37.57	-	-
	6165	43	Low	38.21	37.84	37.31	37.42	-	-
			Mid	36.14	36.55	36.41	-	38.06	37.74
			High	37.87	37.80	37.65	37.43	-	-
	6405	91	Low	38.15	37.81	37.48	37.35	-	-
			Mid	36.19	36.37	36.40	-	38.07	37.74
			High	38.19	37.80	37.62	37.31	-	-
UNII 7	6565	123	Low	38.14	37.85	37.37	37.37	-	-
			Mid	36.26	36.51	36.34	-	38.06	37.75
			High	37.85	37.89	37.66	37.58	-	-
	6685	147	Low	37.79	37.81	37.41	37.51	-	-
			Mid	36.06	36.24	35.84	-	38.06	37.76
			High	38.30	37.78	37.58	37.47	-	-
	6845	179	Low	38.17	37.83	37.48	37.42	-	-
			Mid	35.81	36.43	36.52	-	38.08	37.72
			High	38.00	37.88	37.47	37.46	-	-

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	78.63	78.37	77.84	77.25	77.11	-	-
			Mid	75.26	74.39	75.18	74.84	-	77.78	77.23
			High	78.30	78.19	77.36	76.92	76.78	-	-
	6145	39	Low	78.73	78.59	77.62	77.18	76.96	-	-
			Mid	75.20	74.89	75.29	75.13	-	77.72	77.39
			High	78.59	77.97	76.62	76.87	76.46	-	-
	6385	87	Low	78.48	78.31	77.43	77.21	77.02	-	-
			Mid	75.31	75.05	75.35	75.34	-	77.78	77.29
			High	78.09	77.66	77.08	76.90	76.72	-	-
UNII 7	6625	135	Low	78.48	78.29	76.97	77.20	76.68	-	-
			Mid	73.79	74.94	75.01	75.22	-	77.78	77.30
			High	78.31	78.04	77.51	77.14	76.76	-	-
	6705	151	Low	78.17	78.15	77.29	77.22	76.93	-	-
			Mid	75.15	75.13	75.07	75.24	-	77.90	77.30
			High	78.84	77.91	77.52	77.00	76.70	-	-
	6785	167	Low	78.82	78.29	77.62	77.27	77.21	-	-
			Mid	74.19	74.64	75.45	75.22	-	77.79	77.27
			High	78.62	78.13	77.60	77.28	76.75	-	-

802.11ax(HE160 80L)

HE80_L	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	157.8	157.1	158.8	159.6	155.6	-
			Mid	152.7	152.1	152.6	153.7	-	155.8
			High	153.3	152.5	152.9	152.2	152.9	-
	6185	47	Low	158.1	158.0	157.3	156.7	156.0	-
			Mid	152.4	151.9	152.9	153.5	-	151.9
			High	152.8	152.0	153.0	152.6	152.1	-
	6345	79	Low	157.7	157.3	157.1	157.0	155.3	-
			Mid	151.5	152.3	152.1	152.4	-	155.7
			High	152.5	151.7	152.7	151.4	152.7	-
UNII 7	6665	143	Low	157.9	157.8	157.1	156.5	155.8	-
			Mid	151.4	152.2	153.1	152.1	-	156.2
			High	151.4	152.9	153.3	153.3	152.7	-

802.11ax(HE160 80U)

HE80_U	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	152.8	152.1	152.9	153.3	153.3	-
			Mid	152.8	153.1	152.9	154.0	-	155.8
			High	158.9	157.7	159.4	156.2	156.2	-
	6185	47	Low	151.4	152.0	153.3	152.4	152.9	-
			Mid	153.0	151.8	152.4	152.1	-	155.3
			High	159.6	157.3	156.6	156.0	155.9	-
	6345	79	Low	152.4	151.8	152.4	153.0	150.5	-
			Mid	152.4	152.0	152.3	152.6	-	155.9
			High	158.1	158.2	158.8	156.8	156.0	-
UNII 7	6665	143	Low	152.8	150.9	153.0	153.3	152.6	-
			Mid	153.5	152.1	152.8	153.0	-	155.4
			High	159.3	157.6	158.2	156.3	156.4	-

802.11ax(HE160 SU)

HE160_SU	Frequency [MHz]	Channel No.	OBW (MHz)
UNII 5	6025	15	156.0
	6185	47	156.1
	6345	79	156.2
UNII 7	6665	143	156.4

802.11a

802.11a	Frequency [MHz]	Channel No.	OBW (MHz)
UNII 5	5935	2	16.36
	6175	45	16.36
	6415	93	16.37
UNII 7	6535	117	16.36
	6695	149	16.36
	6855	181	16.36

10.2.4.2 Ant2

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	18.64	18.27	18.40	-	-
			Mid	17.30	16.86	-	19.08	18.92
			High	18.54	18.23	18.42	-	-
	6175	45	Low	18.52	18.37	18.33	-	-
			Mid	17.08	17.03	-	19.14	18.92
			High	18.29	18.11	18.24	-	-
	6415	93	Low	18.62	17.84	18.40	-	-
			Mid	16.90	17.13	-	19.10	18.93
			High	18.71	18.30	18.32	-	-
UNII 7	6535	117	Low	18.53	18.36	18.02	-	-
			Mid	17.17	17.11	-	19.12	18.94
			High	18.66	18.36	18.47	-	-
	6695	149	Low	18.49	18.38	18.36	-	-
			Mid	17.28	17.17	-	19.09	18.93
			High	18.48	18.28	18.42	-	-
	6855	181	Low	18.52	18.31	18.19	-	-
			Mid	16.98	17.23	-	19.08	18.93
			High	18.70	18.29	18.40	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	38.05	37.60	37.41	37.46	-	-
			Mid	36.27	36.27	36.46	-	38.01	37.75
			High	38.19	37.78	37.72	37.41	-	-
	6165	43	Low	38.04	37.81	37.44	37.47	-	-
			Mid	36.17	36.35	36.48	-	38.04	37.72
			High	38.20	37.86	37.73	37.38	-	-
	6405	91	Low	38.08	37.79	37.41	36.88	-	-
			Mid	36.14	36.00	36.36	-	38.03	37.78
			High	37.87	37.68	37.34	37.20	-	-
UNII 7	6565	123	Low	38.18	37.78	37.52	37.27	-	-
			Mid	36.23	36.49	36.36	-	38.01	37.77
			High	38.10	36.72	37.50	37.18	-	-
	6685	147	Low	38.07	37.82	37.40	37.16	-	-
			Mid	36.32	36.31	36.64	-	38.03	37.74
			High	38.30	37.77	37.38	37.46	-	-
	6845	179	Low	38.03	37.88	37.42	37.33	-	-
			Mid	36.24	36.22	35.93	-	38.06	37.75
			High	38.00	37.73	37.73	37.49	-	-

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	78.81	78.40	77.54	77.17	76.91	-	-
			Mid	74.96	75.25	75.34	75.26	-	77.75	77.29
			High	78.60	77.95	77.45	76.91	76.78	-	-
	6145	39	Low	78.62	78.41	77.55	76.96	76.92	-	-
			Mid	75.12	74.72	74.94	75.31	-	77.84	77.06
			High	78.71	77.87	77.38	76.99	76.82	-	-
	6385	87	Low	78.74	77.68	77.73	77.02	76.88	-	-
			Mid	74.92	74.73	75.47	75.16	-	77.78	77.20
			High	77.99	78.91	77.36	76.76	76.71	-	-
UNII 7	6625	135	Low	78.58	78.23	77.85	77.30	77.16	-	-
			Mid	75.08	74.80	74.99	75.26	-	77.90	77.23
			High	78.40	77.92	77.11	76.82	76.59	-	-
	6705	151	Low	78.90	77.69	77.62	77.12	77.21	-	-
			Mid	75.26	74.44	74.72	75.34	-	77.76	77.23
			High	78.60	78.27	77.31	76.85	76.59	-	-
	6785	167	Low	79.12	78.22	77.56	76.99	77.24	-	-
			Mid	74.79	75.00	75.24	75.34	-	77.77	77.15
			High	78.30	77.95	77.50	77.02	76.43	-	-

802.11ax(HE160 80L)

HE80_L	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	157.6	157.3	156.5	156.0	155.2	-
			Mid	152.3	151.5	152.1	152.1	-	154.6
			High	152.5	150.7	152.7	152.6	152.6	-
	6185	47	Low	157.8	157.1	156.7	155.7	156.1	-
			Mid	153.0	152.0	152.6	147.1	-	155.2
			High	152.7	152.8	153.2	153.3	153.3	-
	6345	79	Low	158.5	157.2	157.6	156.9	155.6	-
			Mid	153.0	152.5	153.1	153.1	-	154.8
			High	153.5	151.9	152.6	152.0	152.7	-
UNII 7	6665	143	Low	159.0	157.5	157.1	156.7	155.8	-
			Mid	152.2	152.1	152.6	152.2	-	155.6
			High	152.8	152.1	152.6	153.4	152.5	-

802.11ax(HE160 80U)

HE80_U	Frequency [MHz]	Channel No.	RU Index	OBW (MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	152.4	152.6	152.8	152.9	153.3	-
			Mid	151.8	152.6	153.5	152.6	-	156.1
			High	159.1	158.5	158.2	157.0	155.9	-
	6185	47	Low	153.0	152.5	152.2	153.5	152.5	-
			Mid	152.9	152.6	152.8	153.5	-	156.0
			High	158.8	157.6	157.2	156.9	156.4	-
	6345	79	Low	152.9	151.6	152.1	152.5	152.6	-
			Mid	150.4	152.8	152.3	152.5	-	156.1
			High	157.1	157.6	157.0	155.6	155.5	-
UNII 7	6665	143	Low	152.7	143.1	152.9	152.9	152.5	-
			Mid	153.1	152.1	152.7	152.3	-	155.5
			High	159.2	158.3	156.9	155.8	156.1	-

802.11ax(HE160 SU)

HE160_SU	Frequency [MHz]	Channel No.	OBW (MHz)
UNII 5	6025	15	156.5
	6185	47	155.9
	6345	79	156.2
UNII 7	6665	143	156.1

802.11a

802.11a	Frequency [MHz]	Channel No.	OBW (MHz)
UNII 5	5935	2	16.37
	6175	45	16.35
	6415	93	16.36
UNII 7	6535	117	16.36
	6695	149	16.37
	6855	181	16.38

10.3 OUTPUT POWER MEASUREMENT

10.3.1 E.I.R.P Output Power(Indoor client)

Limit : 24 dBm(e.i.r.p)

(MIMO)

•ANT1 Max. Output Power (dBm) : Measured Conducted Power(dBm) + Duty Factor (dB)

•ANT2 Max. Output Power (dBm) : Measured Conducted Power(dBm) + Duty Factor (dB)

•MIMO Max. Output Power (dBm) = ANT1 Max. Output Power + ANT2 Max. Output Power

•EIRP Output Power (dBm) = MIMO Max. Output Power + Directional Gain (dBi)

-Note: The MIMO formula on page 7 and the maximum gain of each band in the antenna gain table were applied.

10.3.1.1 Ant 1

Max. Output Power (dBm) = Measured Conducted Power (dBm) + Duty Factor (dB)

HE20	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	-1.14	1.66	4.59	-	-
			Mid	-1.47	1.41	-	6.47	6.22
			High	-1.20	1.65	4.57	-	-
	6175	45	Low	-0.38	2.50	5.53	-	-
			Mid	-0.84	2.27	-	6.89	6.53
			High	-0.54	2.46	5.48	-	-
	6415	93	Low	-1.44	2.10	5.11	-	-
			Mid	-1.85	1.92	-	7.71	7.45
			High	-1.45	2.07	5.09	-	-
UNII 6	6435	97	Low	-0.47	2.80	5.72	-	-
			Mid	-0.91	2.58	-	8.63	7.97
			High	-0.56	2.66	5.57	-	-
	6475	105	Low	0.22	2.10	5.05	-	-
			Mid	-0.20	1.85	-	8.47	7.94
			High	0.18	2.06	4.97	-	-
	6515	113	Low	0.08	1.82	4.72	-	-
			Mid	-0.34	1.59	-	7.70	7.38
			High	-0.02	1.69	4.66	-	-
UNII 7	6535	117	Low	-0.15	1.54	4.59	-	-
			Mid	-0.65	1.34	-	7.58	7.26
			High	-0.19	1.49	4.49	-	-
	6695	149	Low	-0.56	1.02	3.97	-	-
			Mid	-0.97	0.84	-	7.13	6.80
			High	-0.60	0.95	3.91	-	-
	6875	185	Low	-1.22	1.26	4.32	-	-
			Mid	-1.60	1.07	-	7.31	6.97
			High	-1.23	1.25	4.27	-	-
UNII 8	6895	189	Low	-0.61	0.98	3.96	-	-
			Mid	-1.00	0.72	-	7.24	6.91
			High	-0.62	0.90	3.90	-	-
	6995	209	Low	-0.27	1.94	5.06	-	-
			Mid	-0.73	1.64	-	7.02	6.66
			High	-0.28	1.87	4.96	-	-
	7115	233	Low	-1.51	1.15	3.84	-	-
			Mid	-1.88	0.91	-	6.81	6.42
			High	-1.54	1.13	3.84	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	-1.12	2.10	5.02	6.95	-	-
			Mid	-1.39	1.81	4.79	-	8.73	8.55
			High	-1.13	2.08	4.98	6.83	-	-
	6165	43	Low	-0.07	3.17	6.05	7.15	-	-
			Mid	-0.42	2.88	5.78	-	9.21	8.92
			High	-0.31	3.06	6.04	7.08	-	-
	6405	91	Low	-0.36	2.91	5.84	7.79	-	-
			Mid	-0.64	2.71	5.66	-	9.70	9.44
			High	-0.43	2.73	5.73	7.71	-	-
UNII 6	6445	99	Low	-0.21	2.97	5.93	8.72	-	-
			Mid	-0.53	2.58	5.75	-	10.51	9.94
			High	-0.37	2.60	5.72	8.56	-	-
	6485	107	Low	-0.43	2.49	5.52	7.88	-	-
			Mid	-0.63	2.23	5.34	-	9.78	9.53
			High	-0.52	2.32	5.36	7.79	-	-
	6525	115	Low	-0.07	2.00	5.02	7.79	-	-
			Mid	-0.33	1.59	4.73	-	9.64	9.40
			High	-0.16	1.94	4.72	7.64	-	-
UNII 7	6565	123	Low	-0.38	1.62	4.64	8.47	-	-
			Mid	-0.68	1.24	4.34	-	10.38	9.90
			High	-0.55	1.25	4.32	8.30	-	-
	6685	147	Low	-0.45	1.43	4.43	7.36	-	-
			Mid	-0.84	1.05	4.19	-	9.24	9.00
			High	-0.68	1.19	4.21	7.19	-	-
	6845	179	Low	-1.40	1.47	4.48	7.49	-	-
			Mid	-1.64	1.18	4.29	-	9.56	9.21
			High	-1.44	1.30	4.33	7.36	-	-
UNII 8	6885	187	Low	-1.12	1.55	4.56	7.38	-	-
			Mid	-1.47	1.28	4.42	-	9.44	9.09
			High	-1.13	1.45	4.37	7.27	-	-
	7005	211	Low	-0.67	1.89	5.35	7.19	-	-
			Mid	-1.07	1.55	5.14	-	9.14	8.78
			High	-0.68	1.79	5.21	7.05	-	-
	7085	227	Low	-0.82	1.55	4.61	7.36	-	-
			Mid	-1.09	1.26	4.33	-	9.57	9.17
			High	-0.87	1.30	4.35	7.19	-	-

HE80	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	-0.72	2.44	5.40	7.24	8.99	-	-
			Mid	-1.11	2.07	4.95	6.95	-	8.93	8.57
			High	-0.74	2.43	5.39	7.22	8.98	-	-
	6145	39	Low	0.28	3.43	6.21	7.75	9.68	-	-
			Mid	0.02	3.35	6.04	7.60	-	9.57	9.28
			High	0.26	3.42	6.19	7.74	9.66	-	-
	6385	87	Low	-0.12	2.25	5.28	8.32	10.04	-	-
			Mid	-0.55	1.84	4.76	8.03	-	9.92	9.54
			High	-0.19	1.86	4.87	7.94	9.81	-	-
UNII 6	6465	103	Low	0.00	3.08	6.12	8.94	10.70	-	-
			Mid	-0.47	2.50	5.42	8.87	-	10.53	9.93
			High	-0.20	2.56	5.59	8.75	10.39	-	-
UNII 7	6545	119	Low	-0.51	2.16	5.18	8.92	10.83	-	-
			Mid	-1.05	1.70	4.63	8.84	-	10.73	9.91
			High	-1.00	1.60	4.57	8.62	10.50	-	-
	6705	151	Low	-0.48	1.62	4.82	7.64	9.51	-	-
			Mid	-0.63	1.18	4.26	7.53	-	9.43	9.05
			High	-0.53	1.16	4.29	7.41	9.24	-	-
	6865	183	Low	-0.82	0.97	3.93	7.95	9.74	-	-
			Mid	-1.31	0.52	3.50	7.69	-	9.70	9.40
			High	-0.84	0.73	3.67	7.65	9.56	-	-
UNII 8	6945	199	Low	-0.65	0.91	3.91	7.44	9.15	-	-
			Mid	-1.15	0.40	3.36	7.19	-	9.24	8.98
			High	-0.67	0.60	3.54	7.14	9.06	-	-
	7025	215	Low	-0.39	1.23	5.18	8.07	9.95	-	-
			Mid	-0.63	0.81	4.83	7.85	-	9.90	9.63
			High	-0.40	0.87	4.83	7.72	9.73	-	-

HE160_80L	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	-0.55	1.59	4.70	6.28	9.10	-
			Mid	-1.00	1.54	4.49	6.17	-	8.88
			High	-1.56	1.41	4.29	5.87	8.77	-
	6185	47	Low	-0.43	3.23	5.99	6.35	9.27	-
			Mid	-0.51	3.12	5.97	6.34	-	9.12
			High	-0.91	2.80	5.75	6.12	9.02	-
	6345	79	Low	-0.59	2.76	5.78	8.04	9.77	-
			Mid	-0.82	2.47	5.39	7.81	-	9.56
			High	-0.83	2.42	5.21	7.51	9.46	-
UNII 6	6505	111	Low	0.30	2.54	5.61	8.12	9.84	-
			Mid	0.18	2.19	4.96	7.83	-	9.51
			High	-0.29	1.86	4.46	7.12	9.16	-
UNII 7	6665	143	Low	-0.02	1.99	4.67	7.48	9.40	-
			Mid	-0.05	1.54	4.48	7.31	-	9.18
			High	-0.40	1.18	4.04	6.75	9.01	-
	6825	175	Low	-1.29	1.47	4.62	7.45	9.22	-
			Mid	-1.35	1.45	4.36	7.33	-	9.01
			High	-1.67	1.18	4.08	7.03	8.97	-
UNII 8	6985	207	Low	-1.32	1.13	4.09	7.29	9.18	-
			Mid	-1.53	0.47	3.60	7.08	-	8.82
			High	-1.59	0.11	3.12	6.35	8.51	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	-1.30	1.53	4.44	6.78	8.73	-
			Mid	-1.51	1.52	4.41	6.71	-	8.56
			High	-1.57	1.30	4.42	6.77	8.71	-
	6185	47	Low	-0.37	3.19	6.16	7.39	9.07	-
			Mid	-0.50	3.07	6.08	7.19	-	8.92
			High	-0.38	3.18	6.15	7.38	9.06	-
	6345	79	Low	-0.92	2.36	5.26	7.54	9.18	-
			Mid	-1.00	2.24	5.21	7.41	-	9.09
			High	-1.01	2.05	5.15	7.38	9.10	-
UNII 6	6505	111	Low	-0.28	1.61	4.52	7.09	8.72	-
			Mid	-0.33	1.45	4.44	6.97	-	8.58
			High	-0.66	1.06	4.00	6.68	8.49	-
UNII 7	6665	143	Low	-0.48	1.17	4.15	6.72	8.66	-
			Mid	-0.69	1.14	4.15	6.61	-	8.51
			High	-0.73	0.83	4.12	6.66	8.66	-
	6825	175	Low	-1.40	1.04	4.08	7.89	9.72	-
			Mid	-1.41	0.96	4.07	7.84	-	9.64
			High	-1.45	0.93	3.93	7.78	9.65	-
UNII 8	6985	207	Low	-1.29	1.28	4.21	7.13	9.25	-
			Mid	-1.53	1.18	4.20	7.00	-	9.14
			High	-1.34	0.89	3.84	6.89	9.07	-

HE160_SU	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	6025	15	8.72
	6185	47	9.02
	6345	79	9.33
UNII 6	6505	111	9.00
UNII 7	6665	143	8.78
	6825	175	9.82
UNII 8	6985	207	9.62

802.11a	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	5935	2	6.20
	6175	45	6.27
	6415	93	7.25
UNII 6	6435	97	8.19
	6475	105	7.93
	6515	113	7.16
UNII 7	6535	117	7.08
	6695	149	6.59
	6875	185	6.80
UNII 8	6895	189	6.69
	6995	209	7.84
	7115	233	7.78

10.3.1.2 Ant 2

Max. Output Power (dBm) = Measured Conducted Power (dBm) + Duty Factor (dB)

HE20	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	-2.26	0.69	3.80	-	-
			Mid	-2.64	0.49	-	6.03	5.74
			High	-2.27	0.49	3.61	-	-
	6175	45	Low	-4.20	-1.00	2.07	-	-
			Mid	-4.65	-1.27	-	6.68	6.40
			High	-4.21	-1.01	1.76	-	-
	6415	93	Low	-4.49	-1.19	1.79	-	-
			Mid	-4.84	-1.44	-	6.86	6.63
			High	-4.50	-1.25	1.78	-	-
UNII 6	6435	97	Low	-3.09	-0.13	3.01	-	-
			Mid	-3.59	-0.30	-	6.43	6.14
			High	-3.10	-0.15	2.97	-	-
	6475	105	Low	-2.89	-0.87	2.12	-	-
			Mid	-3.28	-1.13	-	6.40	6.08
			High	-2.90	-0.88	2.11	-	-
	6515	113	Low	-2.75	-0.91	2.04	-	-
			Mid	-3.05	-1.08	-	6.74	6.43
			High	-2.76	-0.97	2.00	-	-
UNII 7	6535	117	Low	-2.24	-0.37	2.60	-	-
			Mid	-2.61	-0.59	-	6.68	6.39
			High	-2.25	-0.44	2.58	-	-
	6695	149	Low	-2.29	-0.42	2.53	-	-
			Mid	-2.75	-0.63	-	6.90	6.56
			High	-2.37	-0.41	2.52	-	-
	6875	185	Low	-3.07	0.24	3.20	-	-
			Mid	-3.62	0.09	-	6.67	6.29
			High	-3.29	0.22	3.17	-	-
UNII 8	6895	189	Low	-2.73	-0.53	2.52	-	-
			Mid	-3.17	-0.72	-	6.50	6.14
			High	-2.81	-0.54	2.50	-	-
	6995	209	Low	-3.52	0.12	3.90	-	-
			Mid	-4.11	-0.18	-	5.91	5.51
			High	-3.85	-0.05	3.74	-	-
	7115	233	Low	-4.33	-0.50	3.48	-	-
			Mid	-4.78	-0.89	-	6.30	5.87
			High	-4.51	-0.51	3.45	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	-2.07	0.80	3.74	6.80	-	-
			Mid	-2.43	0.40	3.54	-	8.53	8.25
			High	-2.15	0.68	3.57	6.62	-	-
	6165	43	Low	-3.99	-0.84	1.44	6.90	-	-
			Mid	-4.23	-1.01	1.20	-	8.95	8.59
			High	-4.02	-0.84	1.19	6.75	-	-
	6405	91	Low	-2.29	0.61	3.57	6.92	-	-
			Mid	-2.68	0.39	3.41	-	8.84	8.52
			High	-2.32	0.61	3.57	6.91	-	-
UNII 6	6445	99	Low	-3.01	0.16	3.25	6.42	-	-
			Mid	-3.30	-0.10	3.01	-	8.32	7.96
			High	-3.02	0.09	3.08	6.35	-	-
	6485	107	Low	-2.86	-0.01	3.13	6.72	-	-
			Mid	-3.12	-0.17	2.89	-	8.56	8.25
			High	-2.88	-0.02	3.11	6.70	-	-
	6525	115	Low	-2.47	-0.77	2.32	6.74	-	-
			Mid	-2.78	-1.00	2.14	-	8.61	8.26
			High	-2.48	-0.82	2.23	6.71	-	-
UNII 7	6565	123	Low	-1.98	-0.28	2.87	6.48	-	-
			Mid	-2.18	-0.54	2.69	-	8.25	7.91
			High	-2.02	-0.36	2.76	6.39	-	-
	6685	147	Low	-2.18	-0.20	2.87	7.01	-	-
			Mid	-2.48	-0.43	2.70	-	8.87	8.52
			High	-2.33	-0.26	2.80	6.94	-	-
	6845	179	Low	-2.94	0.64	3.56	6.83	-	-
			Mid	-3.38	0.40	3.40	-	8.88	8.53
			High	-3.35	0.57	3.50	6.82	-	-
UNII 8	6885	187	Low	-3.12	0.46	3.44	6.60	-	-
			Mid	-3.56	0.13	3.20	-	8.63	8.30
			High	-3.59	0.33	3.43	6.55	-	-
	7005	211	Low	-3.09	0.26	4.30	5.93	-	-
			Mid	-3.51	-0.05	4.07	-	8.10	7.75
			High	-3.13	0.06	4.17	5.83	-	-
	7085	227	Low	-3.70	-0.05	4.51	7.10	-	-
			Mid	-4.26	-0.74	4.18	-	9.32	8.91
			High	-4.35	-0.65	4.11	6.85	-	-

HE80	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	-1.79	0.95	3.93	7.27	8.90	-	-
			Mid	-2.22	0.56	3.48	7.01	-	8.76	8.48
			High	-1.81	0.58	3.53	6.93	8.65	-	-
	6145	39	Low	-3.38	-0.29	1.99	7.42	9.20	-	-
			Mid	-3.77	-0.65	1.65	7.22	-	9.09	8.91
			High	-3.39	-0.32	1.61	7.14	9.15	-	-
	6385	87	Low	-2.18	0.75	2.69	7.19	8.89	-	-
			Mid	-2.81	0.25	2.38	6.93	-	8.84	8.62
			High	-2.20	0.74	2.62	7.05	8.82	-	-
UNII 6	6465	103	Low	-2.42	0.37	3.32	6.71	8.43	-	-
			Mid	-2.98	0.04	3.02	6.56	-	8.39	8.15
			High	-2.45	0.26	3.23	6.70	8.38	-	-
UNII 7	6545	119	Low	-3.29	-0.55	2.40	6.78	8.44	-	-
			Mid	-3.39	-0.84	2.05	6.63	-	8.43	8.19
			High	-3.30	-0.75	2.24	6.75	8.34	-	-
	6705	151	Low	-1.63	0.06	2.99	7.32	8.97	-	-
			Mid	-2.14	-0.16	2.87	7.10	-	9.01	8.72
			High	-2.17	-0.05	2.98	7.19	8.96	-	-
	6865	183	Low	-2.12	-0.20	2.71	7.14	8.90	-	-
			Mid	-2.88	-0.44	2.49	7.01	-	8.89	8.66
			High	-3.15	-0.27	2.65	6.97	8.78	-	-
UNII 8	6945	199	Low	-2.24	-0.03	2.74	6.57	8.43	-	-
			Mid	-3.12	-0.49	2.54	6.43	-	8.39	8.15
			High	-3.26	-0.27	2.71	6.38	8.31	-	-
	7025	215	Low	-2.57	-0.30	4.76	7.59	9.54	-	-
			Mid	-3.49	-0.68	4.49	7.38	-	9.53	9.25
			High	-2.58	-0.68	4.44	7.29	9.35	-	-

HE160_80L	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	-2.50	0.99	4.09	6.75	9.04	-
			Mid	-2.58	0.38	3.33	6.43	-	8.65
			High	-2.85	-0.27	2.77	5.71	8.29	-
	6185	47	Low	-4.09	-0.05	2.75	6.02	8.63	-
			Mid	-4.45	-0.27	2.63	5.96	-	8.30
			High	-4.40	-0.72	2.16	5.41	8.14	-
	6345	79	Low	-4.29	-0.65	2.33	6.95	8.75	-
			Mid	-3.93	-0.74	2.21	6.87	-	8.60
			High	-3.63	-0.80	2.08	6.62	8.56	-
UNII 6	6505	111	Low	-2.96	-0.80	2.28	6.59	8.27	-
			Mid	-3.02	-1.09	1.90	6.47	-	8.04
			High	-2.98	-1.27	1.74	6.18	7.91	-
UNII 7	6665	143	Low	-2.36	-0.40	2.50	6.49	8.26	-
			Mid	-2.39	-0.45	2.42	6.48	-	8.11
			High	-2.54	-0.43	2.30	6.24	8.12	-
	6825	175	Low	-2.35	0.36	3.37	5.48	7.18	-
			Mid	-2.67	0.33	3.33	5.46	-	6.99
			High	-3.28	0.19	3.05	5.14	7.00	-
UNII 8	6985	207	Low	-2.09	-0.66	2.45	6.08	8.09	-
			Mid	-2.85	-0.98	2.03	6.02	-	7.81
			High	-3.67	-1.19	1.92	5.32	7.54	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	-2.96	-0.29	2.66	6.22	7.82	-
			Mid	-2.97	-0.57	2.36	6.15	-	7.59
			High	-3.15	-0.96	1.97	5.81	7.51	-
	6185	47	Low	-3.77	-0.57	2.47	6.40	8.17	-
			Mid	-4.00	-0.69	2.46	6.28	-	8.02
			High	-3.78	-0.58	2.40	6.39	8.16	-
	6345	79	Low	-2.83	-0.73	2.17	6.67	8.49	-
			Mid	-3.18	-0.74	2.15	6.61	-	8.45
			High	-2.84	-0.81	2.07	6.66	8.48	-
UNII 6	6505	111	Low	-2.62	-1.29	1.78	6.24	7.84	-
			Mid	-2.64	-1.33	1.76	6.13	-	7.79
			High	-2.75	-1.37	1.64	6.11	7.83	-
UNII 7	6665	143	Low	-2.38	-0.50	2.53	6.46	8.21	-
			Mid	-2.62	-0.56	2.41	6.24	-	8.12
			High	-2.93	-0.51	2.52	6.45	8.19	-
	6825	175	Low	-3.19	0.20	3.26	6.15	7.95	-
			Mid	-3.52	0.18	3.25	6.14	-	7.90
			High	-4.05	0.01	3.13	6.06	7.94	-
UNII 8	6985	207	Low	-3.70	-0.40	3.38	6.23	8.28	-
			Mid	-4.08	-0.53	3.25	6.13	-	8.18
			High	-4.82	-0.81	2.85	6.01	8.15	-

HE160_SU	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	6025	15	8.17
	6185	47	8.23
	6345	79	8.50
UNII 6	6505	111	7.96
UNII 7	6665	143	8.16
	6825	175	7.95
UNII 8	6985	207	8.53

802.11a	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	5935	2	6.11
	6175	45	6.23
	6415	93	6.47
UNII 6	6435	97	6.02
	6475	105	5.93
	6515	113	6.27
UNII 7	6535	117	6.20
	6695	149	6.33
	6875	185	6.11
UNII 8	6895	189	6.03
	6995	209	6.73
	7115	233	7.11

10.3.1.3 SUM (MIMO)

Max. Output Power (dBm) = ANT1 Max. Output Power + ANT2 Max. Output Power

HE20	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	1.34	4.21	7.23	-	-
			Mid	1.00	3.98	-	9.26	9.00
			High	1.31	4.12	7.13	-	-
	6175	45	Low	1.13	4.11	7.15	-	-
			Mid	0.67	3.86	-	9.80	9.48
			High	1.01	4.08	7.02	-	-
	6415	93	Low	0.31	3.77	6.77	-	-
			Mid	-0.08	3.57	-	10.31	10.07
			High	0.30	3.73	6.75	-	-
UNII 6	6435	97	Low	1.43	4.59	7.58	-	-
			Mid	0.96	4.38	-	10.68	10.16
			High	1.36	4.49	7.48	-	-
	6475	105	Low	1.95	3.88	6.84	-	-
			Mid	1.54	3.62	-	10.57	10.12
			High	1.92	3.84	6.78	-	-
	6515	113	Low	1.90	3.68	6.60	-	-
			Mid	1.52	3.47	-	10.26	9.94
			High	1.83	3.57	6.54	-	-
UNII 7	6535	117	Low	1.94	3.70	6.72	-	-
			Mid	1.49	3.49	-	10.16	9.86
			High	1.91	3.64	6.65	-	-
	6695	149	Low	1.67	3.37	6.32	-	-
			Mid	1.24	3.18	-	10.03	9.69
			High	1.62	3.33	6.28	-	-
	6875	185	Low	0.97	3.79	6.81	-	-
			Mid	0.51	3.62	-	10.01	9.65
			High	0.88	3.78	6.77	-	-
UNII 8	6895	189	Low	1.47	3.30	6.31	-	-
			Mid	1.06	3.07	-	9.89	9.55
			High	1.43	3.25	6.27	-	-
	6995	209	Low	1.41	4.13	7.53	-	-
			Mid	0.91	3.84	-	9.51	9.13
			High	1.30	4.03	7.41	-	-
	7115	233	Low	0.31	3.41	6.67	-	-
			Mid	-0.08	3.11	-	9.57	9.16
			High	0.24	3.40	6.66	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	1.44	4.51	7.43	9.89	-	-
			Mid	1.13	4.18	7.22	-	11.64	11.41
			High	1.40	4.45	7.34	9.74	-	-
	6165	43	Low	1.41	4.63	7.34	10.04	-	-
			Mid	1.09	4.37	7.08	-	12.09	11.77
			High	1.23	4.55	7.27	9.93	-	-
	6405	91	Low	1.79	4.92	7.86	10.39	-	-
			Mid	1.47	4.71	7.69	-	12.30	12.01
			High	1.74	4.81	7.80	10.34	-	-
UNII 6	6445	99	Low	1.62	4.80	7.80	10.73	-	-
			Mid	1.31	4.45	7.60	-	12.56	12.07
			High	1.52	4.53	7.61	10.60	-	-
	6485	107	Low	1.53	4.42	7.50	10.35	-	-
			Mid	1.31	4.20	7.29	-	12.23	11.95
			High	1.47	4.31	7.39	10.29	-	-
	6525	115	Low	1.90	3.84	6.88	10.30	-	-
			Mid	1.63	3.49	6.63	-	12.17	11.88
			High	1.85	3.78	6.66	10.21	-	-
UNII 7	6565	123	Low	1.91	3.79	6.85	10.60	-	-
			Mid	1.64	3.45	6.61	-	12.46	12.03
			High	1.79	3.53	6.62	10.46	-	-
	6685	147	Low	1.78	3.70	6.73	10.19	-	-
			Mid	1.43	3.38	6.52	-	12.07	11.77
			High	1.58	3.53	6.57	10.08	-	-
	6845	179	Low	0.91	4.09	7.05	10.18	-	-
			Mid	0.59	3.82	6.88	-	12.24	11.90
			High	0.72	3.96	6.94	10.11	-	-
UNII 8	6885	187	Low	1.00	4.05	7.05	10.02	-	-
			Mid	0.62	3.75	6.86	-	12.06	11.72
			High	0.82	3.94	6.94	9.93	-	-
	7005	211	Low	1.29	4.16	7.87	9.61	-	-
			Mid	0.89	3.84	7.65	-	11.66	11.31
			High	1.28	4.02	7.73	9.50	-	-
	7085	227	Low	0.99	3.84	7.57	10.24	-	-
			Mid	0.62	3.38	7.27	-	12.46	12.06
			High	0.74	3.45	7.24	10.03	-	-

HE80	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	1.78	4.77	7.74	10.26	11.95	-	-
			Mid	1.38	4.39	7.29	9.99	-	11.86	11.53
			High	1.77	4.62	7.57	10.09	11.83	-	-
	6145	39	Low	1.83	4.97	7.60	10.60	12.46	-	-
			Mid	1.54	4.81	7.39	10.42	-	12.35	12.11
			High	1.82	4.95	7.49	10.46	12.42	-	-
	6385	87	Low	1.98	4.57	7.18	10.80	12.51	-	-
			Mid	1.47	4.13	6.74	10.53	-	12.43	12.11
			High	1.93	4.35	6.90	10.53	12.35	-	-
UNII 6	6465	103	Low	1.97	4.94	7.95	10.97	12.72	-	-
			Mid	1.46	4.45	7.39	10.88	-	12.60	12.14
			High	1.83	4.57	7.58	10.85	12.51	-	-
UNII 7	6545	119	Low	1.32	4.02	7.02	10.99	12.81	-	-
			Mid	0.94	3.62	6.54	10.89	-	12.74	12.14
			High	1.01	3.59	6.57	10.80	12.57	-	-
	6705	151	Low	1.99	3.92	7.01	10.49	12.26	-	-
			Mid	1.69	3.57	6.63	10.33	-	12.24	11.90
			High	1.74	3.61	6.69	10.32	12.11	-	-
	6865	183	Low	1.59	3.44	6.37	10.58	12.35	-	-
			Mid	0.99	3.08	6.03	10.37	-	12.32	12.05
			High	1.17	3.27	6.20	10.34	12.20	-	-
UNII 8	6945	199	Low	1.64	3.48	6.37	10.03	11.81	-	-
			Mid	0.99	2.99	5.98	9.84	-	11.85	11.60
			High	1.24	3.20	6.15	9.79	11.71	-	-
	7025	215	Low	1.66	3.54	7.98	10.85	12.76	-	-
			Mid	1.19	3.14	7.67	10.63	-	12.73	12.46
			High	1.65	3.17	7.65	10.52	12.55	-	-

HE160_80L	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	1.59	4.31	7.42	9.53	12.08	-
			Mid	1.29	4.01	6.96	9.31	-	11.78
			High	0.85	3.66	6.61	8.80	11.55	-
	6185	47	Low	1.13	4.90	7.67	9.20	11.97	-
			Mid	0.96	4.76	7.63	9.16	-	11.74
			High	0.70	4.40	7.32	8.79	11.61	-
	6345	79	Low	0.96	4.39	7.40	10.54	12.30	-
			Mid	0.91	4.17	7.09	10.38	-	12.11
			High	1.00	4.11	6.93	10.10	12.04	-
UNII 6	6505	111	Low	1.98	4.19	7.27	10.44	12.13	-
			Mid	1.88	3.86	6.70	10.21	-	11.85
			High	1.58	3.58	6.32	9.68	11.59	-
UNII 7	6665	143	Low	1.98	3.97	6.73	10.02	11.88	-
			Mid	1.95	3.67	6.58	9.92	-	11.69
			High	1.67	3.46	6.27	9.51	11.60	-
	6825	175	Low	1.22	3.96	7.05	9.59	11.33	-
			Mid	1.05	3.94	6.88	9.51	-	11.12
			High	0.61	3.72	6.61	9.20	11.11	-
UNII 8	6985	207	Low	1.32	3.34	6.36	9.74	11.68	-
			Mid	0.87	2.81	5.90	9.59	-	11.35
			High	0.50	2.52	5.57	8.87	11.06	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	0.96	3.72	6.65	9.52	11.31	-
			Mid	0.83	3.61	6.52	9.45	-	11.11
			High	0.72	3.33	6.38	9.33	11.17	-
	6185	47	Low	1.26	4.71	7.70	9.93	11.65	-
			Mid	1.11	4.59	7.65	9.77	-	11.50
			High	1.25	4.70	7.68	9.92	11.64	-
	6345	79	Low	1.24	4.09	6.99	10.13	11.86	-
			Mid	1.05	4.01	6.96	10.04	-	11.79
			High	1.18	3.86	6.89	10.05	11.81	-
UNII 6	6505	111	Low	1.71	3.41	6.37	9.69	11.31	-
			Mid	1.67	3.29	6.31	9.58	-	11.21
			High	1.43	3.02	5.99	9.42	11.18	-
UNII 7	6665	143	Low	1.68	3.42	6.42	9.60	11.45	-
			Mid	1.46	3.38	6.38	9.44	-	11.33
			High	1.32	3.22	6.40	9.56	11.44	-
	6825	175	Low	0.81	3.65	6.70	10.12	11.93	-
			Mid	0.67	3.60	6.69	10.08	-	11.86
			High	0.45	3.50	6.56	10.01	11.89	-
UNII 8	6985	207	Low	0.68	3.53	6.82	9.72	11.80	-
			Mid	0.39	3.41	6.76	9.60	-	11.70
			High	0.27	3.13	6.38	9.48	11.65	-

HE160_SU	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	6025	15	11.47
	6185	47	11.65
	6345	79	11.95
UNII 6	6505	111	11.52
UNII 7	6665	143	11.49
	6825	175	11.99
UNII 8	6985	207	12.12

802.11a	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	5935	2	9.17
	6175	45	9.26
	6415	93	9.89
UNII 6	6435	97	10.25
	6475	105	10.06
	6515	113	9.75
UNII 7	6535	117	9.67
	6695	149	9.47
	6875	185	9.48
UNII 8	6895	189	9.38
	6995	209	10.33
	7115	233	10.46

EIRP Output Power (dBm) = MIMO Max. Output Power + Directional Gain (dBi)

HE20	Frequency [MHz]	Channel No.	RU Index	EIRP Output Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	0.70	3.57	6.59	-	-
			Mid	0.36	3.34	-	8.62	8.36
			High	0.67	3.48	6.49	-	-
	6175	45	Low	0.49	3.47	6.51	-	-
			Mid	0.03	3.22	-	9.16	8.84
			High	0.37	3.44	6.38	-	-
	6415	93	Low	-0.33	3.13	6.13	-	-
			Mid	-0.72	2.93	-	9.67	9.43
			High	-0.34	3.09	6.11	-	-
UNII 6	6435	97	Low	-0.09	3.07	6.06	-	-
			Mid	-0.56	2.86	-	9.16	8.64
			High	-0.16	2.97	5.96	-	-
	6475	105	Low	0.43	2.36	5.32	-	-
			Mid	0.02	2.10	-	9.05	8.60
			High	0.40	2.32	5.26	-	-
	6515	113	Low	0.38	2.16	5.08	-	-
			Mid	0.00	1.95	-	8.74	8.42
			High	0.31	2.05	5.02	-	-
UNII 7	6535	117	Low	0.17	1.93	4.95	-	-
			Mid	-0.28	1.72	-	8.39	8.09
			High	0.14	1.87	4.88	-	-
	6695	149	Low	-0.10	1.60	4.55	-	-
			Mid	-0.53	1.41	-	8.26	7.92
			High	-0.15	1.56	4.51	-	-
	6875	185	Low	-0.80	2.02	5.04	-	-
			Mid	-1.26	1.85	-	8.24	7.88
			High	-0.89	2.01	5.00	-	-
UNII 8	6895	189	Low	-1.40	0.43	3.44	-	-
			Mid	-1.81	0.20	-	7.02	6.68
			High	-1.44	0.38	3.40	-	-
	6995	209	Low	-1.46	1.26	4.66	-	-
			Mid	-1.96	0.97	-	6.64	6.26
			High	-1.57	1.16	4.54	-	-
	7115	233	Low	-2.56	0.54	3.80	-	-
			Mid	-2.95	0.24	-	6.70	6.29
			High	-2.63	0.53	3.79	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	EIRP Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	0.80	3.87	6.79	9.25	-	-
			Mid	0.49	3.54	6.58	-	11.00	10.77
			High	0.76	3.81	6.70	9.10	-	-
	6165	43	Low	0.77	3.99	6.70	9.40	-	-
			Mid	0.45	3.73	6.44	-	11.45	11.13
			High	0.59	3.91	6.63	9.29	-	-
	6405	91	Low	1.15	4.28	7.22	9.75	-	-
			Mid	0.83	4.07	7.05	-	11.66	11.37
			High	1.10	4.17	7.16	9.70	-	-
UNII 6	6445	99	Low	0.10	3.28	6.28	9.21	-	-
			Mid	-0.21	2.93	6.08	-	11.04	10.55
			High	0.00	3.01	6.09	9.08	-	-
	6485	107	Low	0.01	2.90	5.98	8.83	-	-
			Mid	-0.21	2.68	5.77	-	10.71	10.43
			High	-0.05	2.79	5.87	8.77	-	-
	6525	115	Low	0.38	2.32	5.36	8.78	-	-
			Mid	0.11	1.97	5.11	-	10.65	10.36
			High	0.33	2.26	5.14	8.69	-	-
UNII 7	6565	123	Low	0.14	2.02	5.08	8.83	-	-
			Mid	-0.13	1.68	4.84	-	10.69	10.26
			High	0.02	1.76	4.85	8.69	-	-
	6685	147	Low	0.01	1.93	4.96	8.42	-	-
			Mid	-0.34	1.61	4.75	-	10.30	10.00
			High	-0.19	1.76	4.80	8.31	-	-
	6845	179	Low	-0.86	2.32	5.28	8.41	-	-
			Mid	-1.18	2.05	5.11	-	10.47	10.13
			High	-1.05	2.19	5.17	8.34	-	-
UNII 8	6885	187	Low	-1.87	1.18	4.18	7.15	-	-
			Mid	-2.25	0.88	3.99	-	9.19	8.85
			High	-2.05	1.07	4.07	7.06	-	-
	7005	211	Low	-1.58	1.29	5.00	6.74	-	-
			Mid	-1.98	0.97	4.78	-	8.79	8.44
			High	-1.59	1.15	4.86	6.63	-	-
	7085	227	Low	-1.88	0.97	4.70	7.37	-	-
			Mid	-2.25	0.51	4.40	-	9.59	9.19
			High	-2.13	0.58	4.37	7.16	-	-

HE80	Frequency [MHz]	Channel No.	RU Index	EIRP Output Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	1.14	4.13	7.10	9.62	11.31	-	-
			Mid	0.74	3.75	6.65	9.35	-	11.22	10.89
			High	1.13	3.98	6.93	9.45	11.19	-	-
	6145	39	Low	1.19	4.33	6.96	9.96	11.82	-	-
			Mid	0.90	4.17	6.75	9.78	-	11.71	11.47
			High	1.18	4.31	6.85	9.82	11.78	-	-
	6385	87	Low	1.34	3.93	6.54	10.16	11.87	-	-
			Mid	0.83	3.49	6.10	9.89	-	11.79	11.47
			High	1.29	3.71	6.26	9.89	11.71	-	-
UNII 6	6465	103	Low	0.45	3.42	6.43	9.45	11.20	-	-
			Mid	-0.06	2.93	5.87	9.36	-	11.08	10.62
			High	0.31	3.05	6.06	9.33	10.99	-	-
UNII 7	6545	119	Low	-0.45	2.25	5.25	9.22	11.04	-	-
			Mid	-0.83	1.85	4.77	9.12	-	10.97	10.37
			High	-0.76	1.82	4.80	9.03	10.80	-	-
	6705	151	Low	0.22	2.15	5.24	8.72	10.49	-	-
			Mid	-0.08	1.80	4.86	8.56	-	10.47	10.13
			High	-0.03	1.84	4.92	8.55	10.34	-	-
	6865	183	Low	-0.18	1.67	4.60	8.81	10.58	-	-
			Mid	-0.78	1.31	4.26	8.60	-	10.55	10.28
			High	-0.60	1.50	4.43	8.57	10.43	-	-
UNII 8	6945	199	Low	-1.23	0.61	3.50	7.16	8.94	-	-
			Mid	-1.88	0.12	3.11	6.97	-	8.98	8.73
			High	-1.63	0.33	3.28	6.92	8.84	-	-
	7025	215	Low	-1.21	0.67	5.11	7.98	9.89	-	-
			Mid	-1.68	0.27	4.80	7.76	-	9.86	9.59
			High	-1.22	0.30	4.78	7.65	9.68	-	-

HE160_80L	Frequency [MHz]	Channel No.	RU Index	EIRP Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	0.95	3.67	6.78	8.89	11.44	-
			Mid	0.65	3.37	6.32	8.67	-	11.14
			High	0.21	3.02	5.97	8.16	10.91	-
	6185	47	Low	0.49	4.26	7.03	8.56	11.33	-
			Mid	0.32	4.12	6.99	8.52	-	11.10
			High	0.06	3.76	6.68	8.15	10.97	-
	6345	79	Low	0.32	3.75	6.76	9.90	11.66	-
			Mid	0.27	3.53	6.45	9.74	-	11.47
			High	0.36	3.47	6.29	9.46	11.40	-
UNII 6	6505	111	Low	0.46	2.67	5.75	8.92	10.61	-
			Mid	0.36	2.34	5.18	8.69	-	10.33
			High	0.06	2.06	4.80	8.16	10.07	-
UNII 7	6665	143	Low	0.21	2.20	4.96	8.25	10.11	-
			Mid	0.18	1.90	4.81	8.15	-	9.92
			High	-0.10	1.69	4.50	7.74	9.83	-
	6825	175	Low	-0.55	2.19	5.28	7.82	9.56	-
			Mid	-0.72	2.17	5.11	7.74	-	9.35
			High	-1.16	1.95	4.84	7.43	9.34	-
UNII 8	6985	207	Low	-1.55	0.47	3.49	6.87	8.81	-
			Mid	-2.00	-0.06	3.03	6.72	-	8.48
			High	-2.37	-0.35	2.70	6.00	8.19	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	EIRP Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	0.32	3.08	6.01	8.88	10.67	-
			Mid	0.19	2.97	5.88	8.81	-	10.47
			High	0.08	2.69	5.74	8.69	10.53	-
	6185	47	Low	0.62	4.07	7.06	9.29	11.01	-
			Mid	0.47	3.95	7.01	9.13	-	10.86
			High	0.61	4.06	7.04	9.28	11.00	-
	6345	79	Low	0.60	3.45	6.35	9.49	11.22	-
			Mid	0.41	3.37	6.32	9.40	-	11.15
			High	0.54	3.22	6.25	9.41	11.17	-
UNII 6	6505	111	Low	0.19	1.89	4.85	8.17	9.79	-
			Mid	0.15	1.77	4.79	8.06	-	9.69
			High	-0.09	1.50	4.47	7.90	9.66	-
UNII 7	6665	143	Low	-0.09	1.65	4.65	7.83	9.68	-
			Mid	-0.31	1.61	4.61	7.67	-	9.56
			High	-0.45	1.45	4.63	7.79	9.67	-
	6825	175	Low	-0.96	1.88	4.93	8.35	10.16	-
			Mid	-1.10	1.83	4.92	8.31	-	10.09
			High	-1.32	1.73	4.79	8.24	10.12	-
UNII 8	6985	207	Low	-2.19	0.66	3.95	6.85	8.93	-
			Mid	-2.48	0.54	3.89	6.73	-	8.83
			High	-2.60	0.26	3.51	6.61	8.78	-

HE160_SU	Frequency [MHz]	Channel No.	EIRP Output Power (dBm)
UNII 5	6025	15	10.83
	6185	47	11.01
	6345	79	11.31
UNII 6	6505	111	10.00
UNII 7	6665	143	9.72
	6825	175	10.22
UNII 8	6985	207	9.25

802.11a	Frequency [MHz]	Channel No.	EIRP Output Power (dBm)
UNII 5	5935	2	8.53
	6175	45	8.62
	6415	93	9.25
UNII 6	6435	97	8.73
	6475	105	8.54
	6515	113	8.23
UNII 7	6535	117	7.90
	6695	149	7.70
	6875	185	7.71
UNII 8	6895	189	6.51
	6995	209	7.46
	7115	233	7.59

10.3.2 E.I.R.P Output Power(Standard client)

Limit : 30 dBm(e.i.r.p)

(MIMO)

•ANT1 Max. Output Power (dBm) : Measured Conducted Power(dBm) + Duty Factor (dB)

•ANT2 Max. Output Power (dBm) : Measured Conducted Power(dBm) + Duty Factor (dB)

•MIMO Max. Output Power (dBm) = ANT1 Max. Output Power + ANT2 Max. Output Power

•EIRP Output Power (dBm) = MIMO Max. Output Power + Directional Gain (dBi)

-Note: The MIMO formula on page 7 and the maximum gain of each band in the antenna gain table were applied.

10.3.2.1 Ant 1

Max. Output Power (dBm) = Measured Conducted Power (dBm) + Duty Factor (dB)

HE20	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	2.41	6.47	7.81	-	-
			Mid	2.02	6.34	-	10.44	10.15
			High	2.41	6.38	7.79	-	-
	6175	45	Low	9.76	11.38	11.02	-	-
			Mid	9.33	10.73	-	10.94	10.68
			High	9.75	11.37	10.99	-	-
	6415	93	Low	10.50	11.41	11.50	-	-
			Mid	10.04	11.26	-	11.48	11.29
			High	10.43	11.39	11.48	-	-
UNII 7	6535	117	Low	10.62	11.59	11.64	-	-
			Mid	10.11	11.34	-	11.54	11.33
			High	10.46	11.43	11.55	-	-
	6695	149	Low	10.33	11.27	11.37	-	-
			Mid	9.88	11.05	-	11.30	11.07
			High	10.23	11.20	11.33	-	-
	6855	181	Low	10.68	11.61	11.53	-	-
			Mid	10.25	11.38	-	11.52	11.24
			High	10.62	11.60	11.44	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	10.08	10.86	10.67	10.54	-	-
			Mid	9.62	10.61	10.47	-	10.50	10.19
			High	10.07	10.84	10.65	10.52	-	-
	6165	43	Low	10.05	11.41	11.38	11.17	-	-
			Mid	9.79	11.20	11.26	-	11.18	10.93
			High	9.91	11.28	11.31	11.15	-	-
	6405	91	Low	10.55	11.74	11.81	11.61	-	-
			Mid	10.18	11.40	11.59	-	11.59	11.31
			High	10.37	11.59	11.62	11.52	-	-
UNII 7	6565	123	Low	11.30	12.67	12.77	12.54	-	-
			Mid	10.86	12.33	12.52	-	12.43	12.10
			High	10.98	12.34	12.42	12.31	-	-
	6685	147	Low	10.51	11.68	11.78	11.55	-	-
			Mid	10.26	11.34	11.53	-	11.53	11.19
			High	10.36	11.39	11.60	11.40	-	-
	6845	179	Low	10.65	11.71	11.86	11.64	-	-
			Mid	10.33	11.43	11.54	-	11.65	11.30
			High	10.39	11.66	11.75	11.59	-	-

HE80	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	10.10	11.01	10.84	10.90	10.72	-	-
			Mid	9.81	10.53	10.48	10.59	-	10.65	10.41
			High	10.08	11.00	10.83	10.88	10.71	-	-
	6145	39	Low	10.52	11.99	11.71	11.84	11.72	-	-
			Mid	10.33	11.79	11.55	11.63	-	11.64	11.41
			High	10.50	11.98	11.70	11.83	11.70	-	-
	6385	87	Low	11.07	12.53	12.06	12.11	11.87	-	-
			Mid	10.47	11.67	11.59	11.73	-	11.72	11.48
			High	10.65	11.77	11.71	11.63	11.59	-	-
UNII 7	6625	135	Low	12.08	13.10	13.08	13.08	13.12	-	-
			Mid	11.98	13.02	12.96	12.98	-	13.16	12.88
			High	12.04	13.04	13.04	13.04	13.03	-	-
	6705	151	Low	11.06	12.17	12.03	11.98	11.81	-	-
			Mid	10.47	11.52	11.51	11.69	-	11.70	11.44
			High	10.86	11.57	11.60	11.59	11.51	-	-
	6785	167	Low	11.02	12.25	12.20	12.14	11.99	-	-
			Mid	10.71	11.97	11.79	11.93	-	11.93	11.64
			High	10.75	12.05	11.91	11.98	11.86	-	-

HE160_80L	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	10.05	11.30	11.30	11.39	11.27	-
			Mid	9.92	11.10	11.07	11.24	-	11.08
			High	9.78	10.90	10.91	11.04	11.00	-
	6185	47	Low	11.11	11.72	11.77	11.90	11.78	-
			Mid	10.99	11.70	11.69	11.84	-	11.63
			High	10.70	11.38	11.45	11.55	11.59	-
	6345	79	Low	11.01	11.91	11.95	11.98	11.86	-
			Mid	10.78	11.72	11.64	11.71	-	11.55
			High	10.57	11.63	11.76	11.46	11.48	-
UNII 7	6665	143	Low	10.47	11.58	11.43	11.39	11.22	-
			Mid	10.25	11.15	10.99	11.25	-	10.99
			High	9.72	10.85	10.76	10.90	10.87	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	9.99	11.37	11.26	11.01	10.81	-
			Mid	9.83	11.36	11.16	10.96	-	10.65
			High	9.89	11.16	11.23	11.00	10.80	-
	6185	47	Low	10.79	11.65	11.63	11.65	11.41	-
			Mid	10.72	11.63	11.53	11.41	-	11.18
			High	10.78	11.63	11.62	11.63	11.39	-
	6345	79	Low	10.57	11.55	11.47	11.42	11.34	-
			Mid	10.47	11.37	11.30	11.22	-	11.18
			High	10.06	11.11	11.17	11.21	11.17	-
UNII 7	6665	143	Low	9.78	10.71	10.69	10.63	10.58	-
			Mid	9.51	10.56	10.68	10.60	-	10.48
			High	9.39	10.40	10.57	10.62	10.57	-

HE160_SU	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	6025	15	10.75
	6185	47	11.23
	6345	79	11.37
UNII 7	6665	143	10.80

802.11a	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	5935	2	10.85
	6175	45	10.56
	6415	93	11.09
UNII 7	6535	117	11.08
	6695	149	10.80
	6855	181	11.09

10.3.2.2 Ant 2

Max. Output Power (dBm) = Measured Conducted Power (dBm) + Duty Factor (dB)

HE20	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	1.73	5.98	7.39	-	-
			Mid	1.21	5.66	-	10.07	9.77
			High	1.61	5.76	7.25	-	-
	6175	45	Low	9.91	10.68	10.63	-	-
			Mid	9.49	10.46	-	10.63	10.33
			High	9.83	10.58	10.63	-	-
	6415	93	Low	9.85	10.76	10.73	-	-
			Mid	9.46	10.49	-	10.72	10.42
			High	9.85	10.75	10.71	-	-
UNII 7	6535	117	Low	9.54	10.40	10.58	-	-
			Mid	9.14	10.17	-	10.40	10.12
			High	9.53	10.39	10.45	-	-
	6695	149	Low	9.85	10.69	10.81	-	-
			Mid	9.43	10.49	-	10.72	10.44
			High	9.79	10.67	10.76	-	-
	6855	181	Low	9.91	10.88	10.82	-	-
			Mid	9.47	10.59	-	10.79	10.51
			High	9.83	10.87	10.79	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	9.60	10.53	10.68	10.51	-	-
			Mid	9.20	10.29	10.40	-	10.52	10.18
			High	9.34	10.39	10.48	10.36	-	-
	6165	43	Low	9.91	10.98	11.08	10.89	-	-
			Mid	9.62	10.58	10.84	-	10.86	10.53
			High	9.64	10.72	10.77	10.70	-	-
	6405	91	Low	9.78	10.83	10.90	10.72	-	-
			Mid	9.54	10.63	10.71	-	10.80	10.44
			High	9.73	10.75	10.84	10.68	-	-
UNII 7	6565	123	Low	9.18	10.27	10.41	10.21	-	-
			Mid	8.91	10.07	10.17	-	10.23	9.91
			High	9.11	10.20	10.40	10.19	-	-
	6685	147	Low	9.83	10.95	11.05	10.85	-	-
			Mid	9.55	10.71	10.94	-	10.86	10.57
			High	9.76	10.94	11.04	10.84	-	-
	6845	179	Low	9.89	11.00	11.12	10.93	-	-
			Mid	9.64	10.81	10.98	-	10.93	10.63
			High	9.81	10.99	11.10	10.89	-	-

HE80	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	10.15	11.13	11.03	10.99	10.85	-	-
			Mid	9.59	10.65	10.58	10.72	-	10.75	10.46
			High	9.54	10.65	10.61	10.61	10.62	-	-
	6145	39	Low	10.40	11.46	11.33	11.35	11.27	-	-
			Mid	10.02	11.04	11.10	11.21	-	11.17	10.94
			High	10.00	11.15	11.06	11.12	11.09	-	-
	6385	87	Low	10.08	11.12	11.00	11.02	10.87	-	-
			Mid	9.74	10.76	10.74	10.79	-	10.85	10.59
			High	9.82	10.87	10.87	10.87	10.79	-	-
UNII 7	6625	135	Low	9.44	10.35	10.44	10.45	10.39	-	-
			Mid	9.24	10.33	10.38	10.37	-	10.34	10.21
			High	9.43	10.34	10.42	10.44	10.38	-	-
	6705	151	Low	10.30	11.36	11.24	11.20	11.12	-	-
			Mid	9.94	11.05	11.01	11.05	-	11.09	10.85
			High	10.26	11.23	11.20	11.18	11.11	-	-
	6785	167	Low	9.04	10.18	10.07	10.10	9.94	-	-
			Mid	8.86	9.86	9.83	9.92	-	9.94	9.68
			High	9.04	10.17	10.06	10.09	9.93	-	-

HE160_80L	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	10.38	11.32	11.41	11.28	11.04	-
			Mid	9.76	10.61	10.63	10.90	-	10.65
			High	9.00	10.15	10.15	10.13	10.33	-
	6185	47	Low	9.79	10.69	10.73	10.72	10.65	-
			Mid	9.57	10.43	10.48	10.56	-	10.35
			High	9.03	10.27	9.99	10.09	10.17	-
	6345	79	Low	9.70	10.79	10.65	10.73	10.70	-
			Mid	9.69	10.73	10.57	10.65	-	10.47
			High	9.53	10.55	10.41	10.52	10.56	-
UNII 7	6665	143	Low	9.33	10.36	10.41	10.44	10.45	-
			Mid	9.22	10.34	10.16	10.40	-	10.10
			High	9.04	10.23	10.15	10.08	10.27	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	9.17	10.01	9.98	9.87	9.66	-
			Mid	8.69	9.77	9.62	9.55	-	9.42
			High	8.42	9.38	9.40	9.22	9.28	-
	6185	47	Low	9.10	10.22	10.21	10.12	10.06	-
			Mid	9.09	10.20	10.15	10.05	-	9.94
			High	8.92	10.14	10.19	10.10	10.04	-
	6345	79	Low	9.50	10.51	10.46	10.49	10.44	-
			Mid	9.49	10.50	10.45	10.44	-	10.35
			High	9.25	10.39	10.33	10.45	10.43	-
UNII 7	6665	143	Low	9.26	10.17	10.20	10.36	10.24	-
			Mid	9.04	10.13	10.09	10.20	-	10.09
			High	9.22	10.16	10.19	10.35	10.22	-

HE160_SU	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	6025	15	10.23
	6185	47	10.29
	6345	79	10.46
UNII 7	6665	143	10.12

802.11a	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	5935	2	10.67
	6175	45	10.21
	6415	93	10.33
UNII 7	6535	117	9.99
	6695	149	10.30
	6855	181	10.36

10.3.2.3 SUM (MIMO)

Max. Output Power (dBm) = ANT1 Max. Output Power + ANT2 Max. Output Power

HE20	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	5.09	9.24	10.62	-	-
			Mid	4.64	9.02	-	13.27	12.98
			High	5.04	9.09	10.54	-	-
	6175	45	Low	12.84	14.06	13.84	-	-
			Mid	12.42	13.61	-	13.80	13.52
			High	12.80	14.00	13.82	-	-
	6415	93	Low	13.20	14.11	14.14	-	-
			Mid	12.77	13.90	-	14.13	13.88
			High	13.16	14.09	14.12	-	-
UNII 7	6535	117	Low	13.13	14.05	14.15	-	-
			Mid	12.66	13.81	-	14.02	13.78
			High	13.03	13.95	14.05	-	-
	6695	149	Low	13.11	14.00	14.11	-	-
			Mid	12.67	13.79	-	14.03	13.78
			High	13.03	13.95	14.07	-	-
	6855	181	Low	13.32	14.27	14.20	-	-
			Mid	12.89	14.02	-	14.18	13.90
			High	13.25	14.26	14.14	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	12.85	13.71	13.69	13.54	-	-
			Mid	12.43	13.46	13.45	-	13.52	13.20
			High	12.73	13.63	13.58	13.45	-	-
	6165	43	Low	12.99	14.21	14.24	14.05	-	-
			Mid	12.71	13.91	14.07	-	14.03	13.75
			High	12.78	14.02	14.06	13.94	-	-
	6405	91	Low	13.19	14.32	14.39	14.20	-	-
			Mid	12.88	14.04	14.18	-	14.22	13.91
			High	13.07	14.20	14.26	14.13	-	-
UNII 7	6565	123	Low	13.38	14.64	14.76	14.54	-	-
			Mid	13.00	14.36	14.51	-	14.48	14.15
			High	13.16	14.41	14.54	14.39	-	-
	6685	147	Low	13.19	14.34	14.44	14.23	-	-
			Mid	12.93	14.05	14.26	-	14.22	13.90
			High	13.08	14.18	14.34	14.13	-	-
	6845	179	Low	13.30	14.38	14.52	14.31	-	-
			Mid	13.01	14.14	14.28	-	14.32	13.99
			High	13.12	14.35	14.45	14.26	-	-

HE80	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	13.13	14.08	13.94	13.96	13.80	-	-
			Mid	12.71	13.60	13.54	13.66	-	13.71	13.45
			High	12.83	13.84	13.73	13.76	13.67	-	-
	6145	39	Low	13.47	14.74	14.53	14.61	14.51	-	-
			Mid	13.19	14.44	14.34	14.44	-	14.42	14.19
			High	13.27	14.59	14.40	14.50	14.42	-	-
	6385	87	Low	13.62	14.89	14.57	14.61	14.41	-	-
			Mid	13.13	14.25	14.20	14.30	-	14.32	14.07
			High	13.26	14.35	14.32	14.28	14.22	-	-
UNII 7	6625	135	Low	13.96	14.95	14.96	14.97	14.97	-	-
			Mid	13.83	14.89	14.87	14.88	-	14.98	14.76
			High	13.93	14.91	14.93	14.94	14.91	-	-
	6705	151	Low	13.71	14.79	14.66	14.62	14.49	-	-
			Mid	13.23	14.30	14.28	14.39	-	14.42	14.16
			High	13.58	14.42	14.41	14.40	14.32	-	-
	6785	167	Low	13.15	14.35	14.27	14.25	14.10	-	-
			Mid	12.90	14.05	13.93	14.05	-	14.06	13.78
			High	12.99	14.22	14.09	14.15	14.01	-	-

HE160_80L	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	13.23	14.32	14.36	14.34	14.17	-
			Mid	12.85	13.87	13.86	14.08	-	13.88
			High	12.42	13.55	13.55	13.62	13.69	-
	6185	47	Low	13.51	14.24	14.29	14.36	14.26	-
			Mid	13.35	14.12	14.13	14.26	-	14.04
			High	12.95	13.87	13.79	13.89	13.95	-
	6345	79	Low	13.42	14.40	14.36	14.41	14.33	-
			Mid	13.28	14.26	14.15	14.22	-	14.06
			High	13.09	14.13	14.15	14.02	14.05	-
UNII 7	6665	143	Low	12.95	14.02	13.96	13.95	13.87	-
			Mid	12.78	13.77	13.60	13.85	-	13.58
			High	12.40	13.56	13.47	13.52	13.59	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	Max. Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	12.61	13.75	13.67	13.49	13.28	-
			Mid	12.31	13.64	13.47	13.32	-	13.09
			High	12.23	13.37	13.42	13.21	13.12	-
	6185	47	Low	13.04	14.00	13.99	13.96	13.80	-
			Mid	12.99	13.99	13.91	13.79	-	13.61
			High	12.96	13.96	13.97	13.95	13.78	-
	6345	79	Low	13.08	14.07	14.01	13.99	13.92	-
			Mid	13.02	13.97	13.91	13.86	-	13.79
			High	12.68	13.77	13.78	13.86	13.82	-
UNII 7	6665	143	Low	12.54	13.46	13.46	13.50	13.42	-
			Mid	12.29	13.36	13.40	13.41	-	13.30
			High	12.32	13.29	13.39	13.50	13.41	-

HE160_SU	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	6025	15	13.51
	6185	47	13.80
	6345	79	13.95
UNII 7	6665	143	13.48

802.11a	Frequency [MHz]	Channel No.	Max. Output Power (dBm)
UNII 5	5935	2	13.77
	6175	45	13.40
	6415	93	13.74
UNII 7	6535	117	13.58
	6695	149	13.56
	6855	181	13.75

EIRP Output Power (dBm) = MIMO Max. Output Power + Directional Gain (dBi)

HE20	Frequency [MHz]	Channel No.	RU Index	EIRP Output Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	11.92	12.73	12.76	-	-
			Mid	11.45	12.45	-	12.63	12.34
			High	11.84	12.62	12.66	-	-
	6175	45	Low	12.20	13.42	13.20	-	-
			Mid	11.78	12.97	-	13.16	12.88
			High	12.16	13.36	13.18	-	-
	6415	93	Low	12.56	13.47	13.50	-	-
			Mid	12.13	13.26	-	13.49	13.24
			High	12.52	13.45	13.48	-	-
UNII 7	6535	117	Low	11.36	12.28	12.38	-	-
			Mid	10.89	12.04	-	12.25	12.01
			High	11.26	12.18	12.28	-	-
	6695	149	Low	11.34	12.23	12.34	-	-
			Mid	10.90	12.02	-	12.26	12.01
			High	11.26	12.18	12.30	-	-
	6875	185	Low	11.55	12.50	12.43	-	-
			Mid	11.12	12.25	-	12.41	12.13
			High	11.48	12.49	12.37	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	EIRP Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	12.21	13.07	13.05	12.90	-	-
			Mid	11.79	12.82	12.81	-	12.88	12.56
			High	12.09	12.99	12.94	12.81	-	-
	6165	43	Low	12.35	13.57	13.60	13.41	-	-
			Mid	12.07	13.27	13.43	-	13.39	13.11
			High	12.14	13.38	13.42	13.30	-	-
	6405	91	Low	12.55	13.68	13.75	13.56	-	-
			Mid	12.24	13.40	13.54	-	13.58	13.27
			High	12.43	13.56	13.62	13.49	-	-
UNII 7	6565	123	Low	11.61	12.87	12.99	12.77	-	-
			Mid	11.23	12.59	12.74	-	12.71	12.38
			High	11.39	12.64	12.77	12.62	-	-
	6685	147	Low	11.42	12.57	12.67	12.46	-	-
			Mid	11.16	12.28	12.49	-	12.45	12.13
			High	11.31	12.41	12.57	12.36	-	-
	6845	179	Low	11.53	12.61	12.75	12.54	-	-
			Mid	11.24	12.37	12.51	-	12.55	12.22
			High	11.35	12.58	12.68	12.49	-	-

HE80	Frequency [MHz]	Channel No.	RU Index	EIRP Output Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	12.49	13.44	13.30	13.32	13.16	-	-
			Mid	12.07	12.96	12.90	13.02	-	13.07	12.81
			High	12.19	13.20	13.09	13.12	13.03	-	-
	6145	39	Low	12.83	14.10	13.89	13.97	13.87	-	-
			Mid	12.55	13.80	13.70	13.80	-	13.78	13.55
			High	12.63	13.95	13.76	13.86	13.78	-	-
	6385	87	Low	12.98	14.25	13.93	13.97	13.77	-	-
			Mid	12.49	13.61	13.56	13.66	-	13.68	13.43
			High	12.62	13.71	13.68	13.64	13.58	-	-
UNII 7	6545	119	Low	12.19	13.18	13.19	13.20	13.20	-	-
			Mid	12.06	13.12	13.10	13.11	-	13.21	12.99
			High	12.16	13.14	13.16	13.17	13.14	-	-
	6705	151	Low	11.94	13.02	12.89	12.85	12.72	-	-
			Mid	11.46	12.53	12.51	12.62	-	12.65	12.39
			High	11.81	12.65	12.64	12.63	12.55	-	-
	6865	183	Low	11.38	12.58	12.50	12.48	12.33	-	-
			Mid	11.13	12.28	12.16	12.28	-	12.29	12.01
			High	11.22	12.45	12.32	12.38	12.24	-	-

HE160_80L	Frequency [MHz]	Channel No.	RU Index	EIRP Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	12.59	13.68	13.72	13.70	13.53	-
			Mid	12.21	13.23	13.22	13.44	-	13.24
			High	11.78	12.91	12.91	12.98	13.05	-
	6185	47	Low	12.87	13.60	13.65	13.72	13.62	-
			Mid	12.71	13.48	13.49	13.62	-	13.40
			High	12.31	13.23	13.15	13.25	13.31	-
	6345	79	Low	12.78	13.76	13.72	13.77	13.69	-
			Mid	12.64	13.62	13.51	13.58	-	13.42
			High	12.45	13.49	13.51	13.38	13.41	-
UNII 7	6665	143	Low	11.18	12.25	12.19	12.18	12.10	-
			Mid	11.01	12.00	11.83	12.08	-	11.81
			High	10.63	11.79	11.70	11.75	11.82	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	EIRP Output Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	11.97	13.11	13.03	12.85	12.64	-
			Mid	11.67	13.00	12.83	12.68	-	12.45
			High	11.59	12.73	12.78	12.57	12.48	-
	6185	47	Low	12.40	13.36	13.35	13.32	13.16	-
			Mid	12.35	13.35	13.27	13.15	-	12.97
			High	12.32	13.32	13.33	13.31	13.14	-
	6345	79	Low	12.44	13.43	13.37	13.35	13.28	-
			Mid	12.38	13.33	13.27	13.22	-	13.15
			High	12.04	13.13	13.14	13.22	13.18	-
UNII 7	6665	143	Low	10.77	11.69	11.69	11.73	11.65	-
			Mid	10.52	11.59	11.63	11.64	-	11.53
			High	10.55	11.52	11.62	11.73	11.64	-

HE160_SU	Frequency [MHz]	Channel No.	EIRP Output Power (dBm)
UNII 5	6025	15	12.87
	6185	47	13.16
	6345	79	13.31
UNII 7	6665	143	11.71

802.11a	Frequency [MHz]	Channel No.	EIRP Output Power (dBm)
UNII 5	5935	2	13.13
	6175	45	12.76
	6415	93	13.10
UNII 7	6535	117	11.81
	6695	149	11.79
	6875	185	11.98

10.4 POWER SPECTRAL DENSITY(Indoor client)

· Limit : -1 dBm/MHz(e.i.r.p)

10.4.1 E.I.R.P MIMO PSD

· EIRP MIMO PSD (dBm /MHz) = SUM (Ant1 + Ant2) + Directional Gain (dBi)

HE20	Frequency [MHz]	Channel No.	RU Index	E.I.R.P MIMO Power Spectral Density (dBm/MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	-1.669	-1.704	-1.679	-	-
			Mid	-3.341	-1.865	-	-2.957	-3.322
			High	-1.781	-1.886	-1.874	-	-
	6175	45	Low	-1.847	-1.513	-1.988	-	-
			Mid	-3.228	-1.672	-	-2.840	-2.795
			High	-1.944	-1.588	-1.993	-	-
	6415	93	Low	-2.981	-2.063	-2.248	-	-
			Mid	-4.457	-2.612	-	-2.300	-2.210
			High	-2.875	-2.411	-2.288	-	-
UNII 6	6435	97	Low	-2.421	-2.272	-2.422	-	-
			Mid	-4.047	-2.717	-	-2.813	-2.766
			High	-2.584	-2.425	-2.381	-	-
	6475	105	Low	-2.195	-3.256	-3.211	-	-
			Mid	-3.587	-3.278	-	-2.801	-3.013
			High	-2.203	-2.893	-3.203	-	-
	6515	113	Low	-2.144	-3.340	-3.417	-	-
			Mid	-3.146	-3.522	-	-2.981	-3.300
			High	-2.188	-3.451	-3.406	-	-
UNII 7	6535	117	Low	-2.386	-3.448	-3.448	-	-
			Mid	-4.065	-3.824	-	-3.440	-3.595
			High	-2.482	-3.430	-3.485	-	-
	6695	149	Low	-2.871	-3.592	-3.955	-	-
			Mid	-4.248	-4.115	-	-3.391	-3.754
			High	-2.848	-3.683	-3.957	-	-
	6875	185	Low	-3.533	-3.294	-3.381	-	-
			Mid	-5.113	-3.458	-	-3.668	-3.774
			High	-3.629	-3.323	-3.394	-	-
UNII 8	6895	189	Low	-3.927	-5.043	-5.050	-	-
			Mid	-5.586	-5.175	-	-4.816	-4.924
			High	-4.249	-4.984	-5.098	-	-
	6995	209	Low	-4.321	-4.148	-3.747	-	-
			Mid	-5.629	-4.590	-	-5.143	-5.360
			High	-4.369	-4.227	-3.829	-	-
	7115	233	Low	-5.296	-5.025	-4.712	-	-
			Mid	-6.877	-5.157	-	-5.090	-5.264
			High	-5.182	-5.073	-4.653	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	E.I.R.P MIMO Power Spectral Density (dBm/MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	-1.878	-1.707	-1.809	-2.835	-	-
			Mid	-2.233	-2.043	-1.965	-	-3.863	-3.842
			High	-1.919	-1.635	-1.836	-2.906	-	-
	6165	43	Low	-1.970	-1.562	-1.833	-2.647	-	-
			Mid	-2.315	-1.714	-2.071	-	-3.448	-3.559
			High	-1.960	-1.516	-1.943	-2.766	-	-
	6405	91	Low	-1.723	-1.240	-1.221	-2.227	-	-
			Mid	-1.865	-1.433	-1.315	-	-3.269	-3.328
			High	-1.448	-1.323	-1.409	-2.279	-	-
UNII 6	6445	99	Low	-2.699	-2.199	-2.196	-2.740	-	-
			Mid	-2.810	-2.534	-2.348	-	-3.857	-3.905
			High	-2.721	-2.397	-2.394	-2.898	-	-
	6485	107	Low	-2.583	-2.359	-2.660	-3.158	-	-
			Mid	-2.842	-2.815	-2.719	-	-4.207	-4.237
			High	-2.790	-2.731	-2.695	-3.316	-	-
	6525	115	Low	-2.253	-3.213	-3.202	-3.138	-	-
			Mid	-2.494	-3.583	-3.485	-	-4.166	-4.287
			High	-2.373	-3.271	-3.365	-3.225	-	-
UNII 7	6565	123	Low	-2.521	-3.439	-3.445	-3.176	-	-
			Mid	-2.794	-3.833	-3.748	-	-4.198	-4.198
			High	-2.631	-3.493	-3.674	-3.365	-	-
	6685	147	Low	-2.567	-3.467	-3.498	-3.651	-	-
			Mid	-3.029	-3.686	-3.817	-	-4.574	-4.523
			High	-2.919	-3.729	-3.733	-3.689	-	-
	6845	179	Low	-3.488	-3.019	-3.171	-3.654	-	-
			Mid	-3.929	-3.567	-3.476	-	-4.434	-4.468
			High	-3.581	-3.304	-3.263	-3.585	-	-
UNII 8	6885	187	Low	-4.609	-4.364	-4.255	-4.854	-	-
			Mid	-4.761	-4.461	-4.527	-	-5.765	-5.693
			High	-4.724	-4.443	-4.346	-5.009	-	-
	7005	211	Low	-4.716	-4.252	-3.328	-5.234	-	-
			Mid	-4.873	-4.497	-3.786	-	-6.102	-6.170
			High	-4.477	-4.512	-3.687	-5.182	-	-
	7085	227	Low	-4.603	-4.757	-3.775	-4.463	-	-
			Mid	-5.028	-5.158	-3.974	-	-5.176	-5.399
			High	-4.874	-4.980	-4.238	-4.744	-	-

HE80	Frequency [MHz]	Channel No.	RU Index	E.I.R.P MIMO Power Spectral Density (dBm/MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	-1.645	-1.384	-1.595	-2.637	-3.728	-	-
			Mid	-2.997	-1.943	-1.885	-2.723	-	-6.517	-6.714
			High	-1.694	-1.557	-1.506	-2.648	-3.827	-	-
	6145	39	Low	-1.609	-1.298	-1.753	-2.108	-3.347	-	-
			Mid	-3.003	-1.391	-1.899	-2.259	-	-6.342	-6.122
			High	-1.582	-1.188	-1.622	-2.173	-3.252	-	-
	6385	87	Low	-1.500	-2.191	-1.980	-1.947	-2.978	-	-
			Mid	-2.896	-2.467	-2.488	-2.232	-	-6.196	-6.198
			High	-1.548	-2.197	-2.198	-1.967	-3.332	-	-
UNII 6	6465	103	Low	-2.656	-2.132	-2.105	-2.516	-3.735	-	-
			Mid	-3.978	-2.649	-2.785	-2.848	-	-6.807	-6.716
			High	-2.666	-2.372	-2.627	-2.789	-4.047	-	-
UNII 7	6545	119	Low	-2.230	-3.459	-3.363	-2.703	-3.921	-	-
			Mid	-3.525	-3.829	-3.741	-3.043	-	-7.034	-7.006
			High	-2.572	-3.835	-3.834	-3.098	-4.251	-	-
	6705	151	Low	-2.419	-3.327	-3.145	-3.355	-4.505	-	-
			Mid	-3.976	-3.614	-3.689	-3.346	-	-7.623	-7.521
			High	-2.861	-3.581	-3.626	-3.545	-4.772	-	-
	6865	183	Low	-3.146	-3.824	-3.822	-3.305	-4.251	-	-
			Mid	-4.561	-4.071	-4.295	-3.506	-	-7.474	-7.374
			High	-3.339	-4.171	-4.133	-3.513	-4.516	-	-
UNII 8	6945	199	Low	-4.307	-5.027	-4.988	-4.943	-5.814	-	-
			Mid	-5.773	-5.482	-5.420	-5.144	-	-8.989	-8.930
			High	-4.405	-5.265	-5.196	-5.057	-6.067	-	-
	7025	215	Low	-4.507	-4.802	-3.588	-4.073	-5.014	-	-
			Mid	-5.493	-5.320	-3.845	-4.356	-	-8.160	-8.021
			High	-4.411	-5.348	-3.889	-4.306	-5.232	-	-

HE160_80L	Frequency [MHz]	Channel No.	RU Index	E.I.R.P MIMO Power Spectral Density (dBm/MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	-1.855	-1.836	-1.848	-3.157	-3.572	-
			Mid	-3.345	-2.122	-2.223	-3.243	-	-6.730
			High	-2.817	-2.632	-2.560	-3.851	-3.961	-
	6185	47	Low	-2.100	-1.644	-1.672	-3.452	-3.788	-
			Mid	-3.355	-1.648	-1.643	-3.524	-	-7.001
			High	-2.775	-1.923	-1.841	-3.880	-4.123	-
	6345	79	Low	-2.424	-1.674	-1.731	-2.229	-3.335	-
			Mid	-3.677	-2.235	-2.031	-2.301	-	-6.576
			High	-2.564	-2.339	-2.317	-2.726	-3.800	-
UNII 6	6505	111	Low	-2.394	-2.930	-2.935	-3.132	-4.430	-
			Mid	-3.858	-3.300	-3.400	-3.355	-	-7.621
			High	-2.748	-3.842	-3.710	-3.838	-4.985	-
UNII 7	6665	143	Low	-2.814	-3.566	-3.610	-3.725	-4.930	-
			Mid	-3.895	-3.753	-3.888	-3.953	-	-8.089
			High	-3.114	-3.959	-4.046	-4.378	-5.166	-
	6825	175	Low	-3.554	-3.405	-3.331	-4.370	-5.487	-
			Mid	-4.950	-3.520	-3.548	-4.327	-	-8.752
			High	-4.101	-3.622	-3.795	-4.584	-5.827	-
UNII 8	6985	207	Low	-4.201	-5.118	-4.989	-5.039	-6.190	-
			Mid	-6.093	-5.690	-5.550	-5.248	-	-9.326
			High	-5.445	-6.030	-5.891	-5.991	-6.889	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	E.I.R.P MIMO Power Spectral Density (dBm/MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	-2.767	-2.749	-2.839	-3.219	-4.326	-
			Mid	-3.947	-2.666	-2.881	-3.372	-	-7.613
			High	-3.044	-2.967	-2.946	-3.514	-4.547	-
	6185	47	Low	-2.761	-1.933	-1.928	-3.145	-4.132	-
			Mid	-3.973	-1.692	-1.785	-2.986	-	-7.128
			High	-2.198	-1.602	-1.658	-2.891	-4.033	-
	6345	79	Low	-2.550	-2.170	-2.321	-2.756	-3.813	-
			Mid	-3.341	-2.320	-2.355	-2.650	-	-7.032
			High	-2.312	-2.606	-2.531	-2.751	-3.821	-
UNII 6	6505	111	Low	-2.788	-3.665	-3.930	-4.032	-5.044	-
			Mid	-3.903	-3.840	-3.986	-4.087	-	-8.288
			High	-2.858	-4.173	-4.178	-4.187	-5.395	-
UNII 7	6665	143	Low	-2.952	-4.149	-4.149	-4.470	-5.490	-
			Mid	-4.464	-4.083	-3.883	-4.386	-	-8.517
			High	-3.242	-4.227	-4.052	-4.306	-5.301	-
	6825	175	Low	-4.103	-3.822	-3.753	-3.817	-5.035	-
			Mid	-5.446	-3.596	-3.564	-3.734	-	-7.953
			High	-4.409	-4.021	-3.792	-3.926	-5.042	-
UNII 8	6985	207	Low	-5.409	-4.985	-4.658	-5.326	-6.203	-
			Mid	-6.394	-5.220	-4.720	-5.407	-	-9.222
			High	-5.417	-5.382	-5.052	-5.445	-6.175	-

HE160_SU	Frequency [MHz]	Channel No.	E.I.R.P MIMO Power Spectral Density (dBm/MHz)
UNII 5	6025	15	-9.833
	6185	47	-9.668
	6345	79	-9.288
UNII 6	6505	111	-10.607
UNII 7	6665	143	-10.922
	6825	175	-10.314
UNII 8	6985	207	-11.320

802.11a	Frequency [MHz]	Channel No.	E.I.R.P MIMO Power Spectral Density (dBm/MHz)
UNII 5	5935	2	-2.663
	6175	45	-2.615
	6415	93	-1.864
UNII 6	6435	97	-2.405
	6475	105	-2.517
	6515	113	-2.912
UNII 7	6535	117	-3.274
	6695	149	-3.381
	6875	185	-3.439
UNII 8	6895	189	-4.655
	6995	209	-3.950
	7115	233	-4.001

10.5 POWER SPECTRAL DENSITY(Standard client)

· Limit : 17 dBm/MHz(e.i.r.p)

10.5.1 E.I.R.P MIMO PSD

· EIRP MIMO PSD (dBm /MHz) = SUM (Ant1 + Ant2) + Directional Gain (dBi)

HE20	Frequency [MHz]	Channel No.	RU Index	E.I.R.P MIMO Power Spectral Density (dBm/MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5935	2	Low	1.951	3.291	1.177	-	-
			Mid	0.203	2.995	-	3.802	4.685
			High	1.756	3.190	1.200	-	-
	6175	45	Low	9.630	7.638	5.819	-	-
			Mid	8.030	7.469	-	3.499	4.240
			High	9.503	7.634	5.737	-	-
	6415	93	Low	9.904	7.942	5.999	-	-
			Mid	8.368	7.651	-	3.983	4.914
			High	9.913	7.962	6.017	-	-
UNII 7	6535	117	Low	8.676	6.756	4.748	-	-
			Mid	7.133	6.413	-	2.506	3.598
			High	8.611	6.589	4.711	-	-
	6695	149	Low	8.703	6.685	4.626	-	-
			Mid	7.194	6.536	-	2.582	3.363
			High	8.547	6.750	4.609	-	-
	6855	181	Low	8.792	6.847	4.885	-	-
			Mid	7.479	6.695	-	2.488	3.303
			High	8.696	6.968	4.769	-	-

HE40	Frequency [MHz]	Channel No.	RU Index	E.I.R.P MIMO Power Spectral Density (dBm/MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	9.215	7.622	5.497	3.120	-	-
			Mid	8.982	7.341	5.295	-	0.145	0.268
			High	9.454	7.502	5.491	3.034	-	-
	6165	43	Low	9.443	8.035	6.227	3.463	-	-
			Mid	9.251	7.661	6.146	-	0.577	0.612
			High	9.517	7.911	6.132	3.357	-	-
	6405	91	Low	9.890	8.098	6.274	4.010	-	-
			Mid	9.644	7.955	6.097	-	1.093	0.912
			High	9.761	8.081	6.181	3.844	-	-
UNII 7	6565	123	Low	8.873	7.292	5.515	2.891	-	-
			Mid	8.645	6.950	5.290	-	-0.048	0.000
			High	8.678	7.210	5.259	2.725	-	-
	6685	147	Low	8.756	7.062	4.959	2.478	-	-
			Mid	8.400	6.737	4.840	-	-0.510	-0.478
			High	8.577	7.118	4.922	2.320	-	-
	6845	179	Low	8.894	7.236	5.217	2.622	-	-
			Mid	8.536	6.846	4.912	-	-0.499	-0.445
			High	8.666	7.234	5.068	2.437	-	-

HE80	Frequency [MHz]	Channel No.	RU Index	E.I.R.P MIMO Power Spectral Density (dBm/MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	9.644	7.762	5.715	2.063	-0.963	-	-
			Mid	8.230	7.357	5.339	1.847	-	-3.956	-3.926
			High	9.600	7.634	5.566	2.020	-0.933	-	-
	6145	39	Low	10.038	8.370	6.618	3.045	0.001	-	-
			Mid	8.630	8.206	6.280	3.069	-	-2.980	-2.792
			High	9.957	8.398	6.361	3.120	-0.032	-	-
	6385	87	Low	10.278	8.536	6.515	3.005	0.072	-	-
			Mid	8.738	8.100	6.163	2.729	-	-3.180	-3.108
			High	9.924	8.099	6.202	2.726	-0.304	-	-
UNII 7	6625	135	Low	9.760	7.946	5.845	2.329	-0.215	-	-
			Mid	8.174	7.514	5.602	2.301	-	-3.737	-3.567
			High	9.633	7.718	5.732	2.203	-0.834	-	-
	6705	151	Low	9.106	7.195	5.226	1.844	-1.316	-	-
			Mid	7.611	7.030	4.916	1.455	-	-4.381	-4.280
			High	8.966	7.151	5.053	1.611	-1.508	-	-
	6785	167	Low	8.321	7.073	4.985	1.354	-1.717	-	-
			Mid	7.247	6.649	4.674	1.256	-	-4.626	-4.411
			High	8.376	7.013	4.817	1.348	-1.604	-	-

HE160_80L	Frequency [MHz]	Channel No.	RU Index	E.I.R.P MIMO Power Spectral Density (dBm/MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	9.853	7.928	5.103	1.628	-1.363	-
			Mid	8.150	7.667	4.625	1.511	-	-4.595
			High	8.864	7.374	4.229	0.869	-2.110	-
	6185	47	Low	9.933	8.100	4.986	1.631	-1.645	-
			Mid	8.368	7.940	4.756	1.467	-	-4.717
			High	9.467	7.507	4.416	1.099	-1.853	-
	6345	79	Low	10.082	8.203	5.271	1.799	-1.204	-
			Mid	8.825	8.075	4.897	1.612	-	-4.325
			High	9.891	7.724	4.767	1.386	-1.451	-
UNII 7	6665	143	Low	8.568	6.681	3.647	0.308	-2.958	-
			Mid	6.976	6.498	3.330	0.028	-	-5.987
			High	7.878	6.213	3.249	-0.318	-3.066	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	E.I.R.P MIMO Power Spectral Density (dBm/MHz)					
				26 T	52 T	106 T	242 T	484 T	996 T
UNII 5	6025	15	Low	8.883	7.271	3.956	0.581	-2.366	-
			Mid	7.548	6.961	3.942	0.580	-	-5.366
			High	8.442	6.847	3.897	0.490	-2.281	-
	6185	47	Low	9.333	7.638	4.471	0.948	-1.897	-
			Mid	8.432	7.600	4.665	1.017	-	-5.049
			High	9.269	7.760	4.561	1.183	-1.812	-
	6345	79	Low	9.502	7.930	4.774	1.316	-1.669	-
			Mid	8.316	7.778	4.615	1.149	-	-4.697
			High	9.136	7.586	4.541	1.260	-1.679	-
UNII 7	6665	143	Low	7.584	6.175	2.965	-0.353	-3.437	-
			Mid	6.714	6.226	3.111	-0.393	-	-6.498
			High	7.607	6.052	3.096	-0.205	-3.292	-

HE160_SU	Frequency [MHz]	Channel No.	E.I.R.P MIMO Power Spectral Density (dBm/MHz)
UNII 5	6025	15	-7.665
	6185	47	-7.475
	6345	79	-7.159
UNII 7	6665	143	-8.748

802.11a	Frequency [MHz]	Channel No.	E.I.R.P MIMO Power Spectral Density (dBm/MHz)
UNII 5	5935	2	2.116
	6175	45	1.527
	6415	93	1.932
UNII 7	6535	117	0.730
	6695	149	0.690
	6855	181	0.747

10.6 In-Band Emission

-See Annex B Test Plot

10.7 Contention Based Protocol

- Contention-based Protocol Detection Level

Band	BW	Channel No.	Channel Freq (MHz)	Incumbent Freq (MHz)	injected Power [dBm]	Antenna Gain [dBi]	Adjusted Power [dBm]	EUT TX Status
UNII 5	HE20	37	6135	6135	-81.28	-7.62	-73.66	Ceased
					-81.95	-7.62	-74.33	Minimal
					-82.79	-7.62	-75.17	Normal
	HE160	47	6185	6110	-78.32	-7.62	-70.70	Ceased
					-79.38	-7.62	-71.76	Minimal
					-80.29	-7.62	-72.67	Normal
				6185	-72.64	-7.62	-65.02	Ceased
					-73.42	-7.62	-65.80	Minimal
					-74.58	-7.62	-66.96	Normal
				6250	-81.03	-7.62	-73.41	Ceased
					-82.15	-7.62	-74.53	Minimal
					-83.34	-7.62	-75.72	Normal
UNII 6	HE20	101	6455	6455	-80.00	-4.98	-75.02	Ceased
					-80.98	-4.98	-76.00	Minimal
					-81.85	-4.98	-76.87	Normal
	HE160	111	6505	6430	-79.56	-4.98	-74.58	Ceased
					-80.84	-4.98	-75.86	Minimal
					-81.79	-4.98	-76.81	Normal
				6505	-74.20	-4.98	-69.22	Ceased
					-75.51	-4.98	-70.53	Minimal
					-76.35	-4.98	-71.37	Normal
				6580	-79.27	-4.98	-74.29	Ceased
					-80.44	-4.98	-75.46	Minimal
					-81.31	-4.98	-76.33	Normal

Band	BW	Channel No.	Channel Freq (MHz)	Incumbent Freq (MHz)	injected Power [dBm]	Antenna Gain [dBi]	Adjusted Power [dBm]	EUT TX Status
UNII 7	HE20	133	6615	6615	-79.89	-6.35	-73.54	Ceased
					-80.69	-6.35	-74.34	Minimal
					-81.50	-6.35	-75.15	Normal
	HE160	143	6665	6590	-78.65	-6.35	-72.30	Ceased
					-79.71	-6.35	-73.36	Minimal
					-80.68	-6.35	-74.33	Normal
				6665	-73.48	-6.35	-67.13	Ceased
					-74.29	-6.35	-67.94	Minimal
					-75.31	-6.35	-68.96	Normal
				6740	-79.77	-6.35	-73.42	Ceased
					-80.58	-6.35	-74.23	Minimal
					-81.44	-6.35	-75.09	Normal
UNII 8	HE20	197	6935	6935	-79.23	-7.35	-71.88	Ceased
					-77.25	-7.35	-72.75	Minimal
					-78.18	-7.35	-73.60	Normal
	HE160	207	6985	6910	-76.24	-7.35	-68.89	Ceased
					-77.25	-7.35	-69.90	Minimal
					-78.18	-7.35	-70.83	Normal
				6985	-70.70	-7.35	-63.35	Ceased
					-71.76	-7.35	-64.41	Minimal
					-72.59	-7.35	-65.24	Normal
				7060	-77.52	-7.35	-70.17	Ceased
					-78.58	-7.35	-71.23	Minimal
					-79.47	-7.35	-72.12	Normal

Note:

1. KDB 987594 D02, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz.
   The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission, marker indicates the point at which the AWGN signal is introduced.
2. Injected Power(dBm) = Actual power of AWGN injected into the antenna port(dBm) + Path Loss(dB)
3. Adjusted Power(dBm) = Injected Power(dBm) – Antenna Gain(dBi)
4. In order to simplify the report, attached were only the worst-case plots.
   Plot & Antenna Gain is described in [UNII 6e] Plot Annex B. Please refer to [UNII 6e] Plot Annex B.

- Incumbent Detection Result

Band	BW	Channel No.	Channel Freq (MHz)	Incumbent Freq (MHz)	Injected Power [dBm]	Antenna Gain [dBi]	Adjusted Power [dBm]	Detection Limit [dBm]	Margin [dB]
UNII 5	HE20	37	6135	6135	-81.28	-7.62	-73.66	-62.00	11.66
	HE160	47	6185	6110	-78.32	-7.62	-70.70	-62.00	8.70
				6185	-72.64	-7.62	-65.02	-62.00	3.02
				6250	-81.03	-7.62	-73.41	-62.00	11.41
UNII 6	HE20	101	6455	6455	-80.00	-4.98	-75.02	-62.00	13.02
	HE160	111	6505	6430	-79.56	-4.98	-74.58	-62.00	12.58
				6505	-74.20	-4.98	-69.22	-62.00	7.22
				6580	-79.27	-4.98	-74.29	-62.00	12.29
UNII 7	HE20	133	6615	6615	-79.89	-6.35	-73.54	-62.00	11.54
	HE160	143	6665	6590	-78.65	-6.35	-72.30	-62.00	10.30
				6665	-73.48	-6.35	-67.13	-62.00	5.13
				6740	-79.77	-6.35	-73.42	-62.00	11.42
UNII 8	HE20	197	6935	6935	-79.23	-7.35	-71.88	-62.00	9.88
	HE160	207	6985	6910	-76.24	-7.35	-68.89	-62.00	6.89
				6985	-70.70	-7.35	-63.35	-62.00	1.35
				7060	-77.52	-7.35	-70.17	-62.00	8.17

Note:

1. KDB 987594 D02, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz.
The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission, marker indicates the point at which the AWGN signal is introduced.
2. Injected Power(dBm) = Actual power of AWGN injected into the antenna port(dBm) + Path Loss(dB)
3. Adjusted Power(dBm) = Injected Power(dBm) – Antenna Gain(dBi)
4. In order to simplify the report, attached were only the worst-case plots.
Plot is described in [UNII 6e] Plot Annex B. Please refer to [UNII 6e] Plot Annex B.

- Detection probability evaluation table Result

Band	BW	Channel No.	Center Frequency (MHz)	Incumbent Frequency (MHz)	Adjusted Power [dBm]	1	2	3	4	5	6	7	8	9	10	AWGN Detection Probability (%)	Limit Probability (%)
UNII 5	HE20	37	6135	6135	-73.66	o	o	o	o	o	o	o	o	o	o	100	90
	HE160	47	6185	6110	-70.70	o	o	o	o	o	o	o	o	o	o	100	90
				6185	-65.02	o	o	o	o	o	o	o	o	o	o	100	90
				6250	-73.41	o	o	o	o	o	o	o	o	o	o	100	90
UNII 6	HE20	101	6455	6455	-75.02	o	o	o	o	o	o	o	o	o	o	100	90
	HE160	111	6505	6430	-74.58	o	o	o	o	o	o	o	o	o	o	100	90
				6505	-69.22	o	o	o	o	o	o	o	o	o	o	100	90
				6580	-74.29	o	o	o	o	o	o	o	o	o	o	100	90
UNII 7	HE20	133	6615	6615	-73.54	o	o	o	o	o	o	o	o	o	o	100	90
	HE160	143	6665	6590	-72.30	o	o	o	o	o	o	o	o	o	o	100	90
				6665	-67.13	o	o	o	o	o	o	o	o	o	o	100	90
				6740	-73.42	o	o	o	o	o	o	o	o	o	o	100	90
UNII 8	HE20	197	6935	6935	-71.88	o	o	o	o	o	o	o	o	o	o	100	90
	HE160	207	6985	6910	-68.89	o	o	o	o	o	o	o	o	o	o	100	90
				6985	-63.35	o	o	o	o	o	o	o	o	o	o	100	90
				7060	-70.17	o	o	o	o	o	o	o	o	o	o	100	90

10.8 RADIATED SPURIOUS EMISSIONS (9 kHz – 1 GHz)

Frequency Range : 9 kHz – 30 MHz

Frequency	Measured Value	A.F+C.L-A.G+D.F	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. The Measured Value of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = 40log (specific distance / test distance) (dB)
3. Limit line = specific Limits (dBμV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

Frequency	Measured Value	A.F+C.L	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode

10.9 RADIATED SPURIOUS EMISSIONS (Above 1 GHz)

1) 802.11a (MIMO)

Band :	UNII 5
Operation Mode:	802.11a
Transfer Rate:	6 Mbps
Operating Frequency	5935 MHz
Channel No.	2 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11870	56.37	0.00	-0.26	V	56.11	73.98	17.87	PK
11870	43.06	0.10	-0.26	V	42.90	53.98	11.08	AV
17805	50.16	0.00	5.69	V	55.85	73.98	18.13	PK
17805	37.32	0.10	5.69	V	43.11	53.98	10.87	AV
11870	55.89	0.00	-0.26	H	55.63	73.98	18.35	PK
11870	43.01	0.10	-0.26	H	42.85	53.98	11.13	AV
17805	50.17	0.00	5.69	H	55.86	73.98	18.12	PK
17805	37.26	0.10	5.69	H	43.05	53.98	10.93	AV

Band :	UNII 5
Operation Mode:	802.11a
Transfer Rate:	6 Mbps
Operating Frequency	6175 MHz
Channel No.	45 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12350	51.95	0.00	0.00	V	51.95	73.98	22.03	PK
12350	39.52	0.10	0.00	V	39.62	53.98	14.36	AV
18525	55.39	0.00	0.06	V	55.45	73.98	18.53	PK
18525	42.84	0.10	0.06	V	43.00	53.98	10.98	AV
12350	51.54	0.00	0.00	H	51.54	73.98	22.44	PK
12350	39.28	0.10	0.00	H	39.38	53.98	14.60	AV
18525	55.18	0.00	0.06	H	55.24	73.98	18.74	PK
18525	42.59	0.10	0.06	H	42.75	53.98	11.23	AV

Band :	UNII 5
Operation Mode:	802.11a
Transfer Rate:	6 Mbps
Operating Frequency	6415 MHz
Channel No.	93 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12830	53.05	0.00	0.92	V	53.97	68.23	14.26	PK
19245	51.79	0.00	1.40	V	53.19	73.98	20.79	PK
19245	40.61	0.10	1.40	V	42.11	53.98	11.87	AV
12830	53.01	0.00	0.92	H	53.93	68.23	14.30	PK
19245	51.64	0.00	1.40	H	53.04	73.98	20.94	PK
19245	40.58	0.10	1.40	H	42.08	53.98	11.90	AV

2) 802.11ax(HE20)SU (MIMO)

Band :	UNII 5
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5935 MHz
Channel No.	2 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11870	54.85	0.00	-0.26	V	54.59	73.98	19.39	PK
11870	42.02	0.03	-0.26	V	41.79	53.98	12.19	AV
17805	49.95	0.00	5.69	V	55.64	73.98	18.34	PK
17805	37.28	0.03	5.69	V	43.00	53.98	10.98	AV
11870	54.68	0.00	-0.26	H	54.42	73.98	19.56	PK
11870	41.98	0.03	-0.26	H	41.75	53.98	12.23	AV
17805	49.86	0.00	5.69	H	55.55	73.98	18.43	PK
17805	37.15	0.03	5.69	H	42.87	53.98	11.11	AV

Band :	UNII 5
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	6175 MHz
Channel No.	45 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12350	52.44	0.00	0.00	V	52.44	73.98	21.54	PK
12350	39.53	0.03	0.00	V	39.56	53.98	14.42	AV
18525	54.86	0.00	0.06	V	54.92	73.98	19.06	PK
18525	42.56	0.03	0.06	V	42.65	53.98	11.33	AV
12350	51.98	0.00	0.00	H	51.98	73.98	22.00	PK
12350	39.26	0.03	0.00	H	39.29	53.98	14.69	AV
18525	54.66	0.00	0.06	H	54.72	73.98	19.26	PK
18525	42.38	0.03	0.06	H	42.47	53.98	11.51	AV

Band :	UNII 5
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	6415 MHz
Channel No.	93 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12830	52.51	0.00	0.92	V	53.43	68.23	14.80	PK
19245	51.80	0.00	1.40	V	53.20	73.98	20.78	PK
19245	40.55	0.03	1.40	V	41.98	53.98	12.00	AV
12830	52.29	0.00	0.92	H	53.21	68.23	15.02	PK
19245	51.68	0.00	1.40	H	53.08	73.98	20.90	PK
19245	40.48	0.03	1.40	H	41.91	53.98	12.07	AV

Band :	UNII 6
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	6435 MHz
Channel No.	97 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12870	51.76	0.00	1.10	V	52.86	68.23	15.37	PK
19305	51.81	0.00	1.81	V	53.62	73.98	20.36	PK
19305	40.28	0.03	1.81	V	42.12	53.98	11.86	AV
12870	51.69	0.00	1.10	H	52.79	68.23	15.44	PK
19305	51.71	0.00	1.81	H	53.52	73.98	20.46	PK
19305	40.19	0.03	1.81	H	42.03	53.98	11.95	AV

Band :	UNII 6
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	6475 MHz
Channel No.	105 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12950	50.92	0.00	1.35	V	52.27	68.23	15.96	PK
19425	50.39	0.00	2.72	V	53.11	73.98	20.87	PK
19425	39.17	0.03	2.72	V	41.92	53.98	12.06	AV
12950	50.86	0.00	1.35	H	52.21	68.23	16.02	PK
19425	50.23	0.00	2.72	H	52.95	73.98	21.03	PK
19425	39.14	0.03	2.72	H	41.89	53.98	12.09	AV

Band :	UNII 6
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	6515 MHz
Channel No.	113 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
13030	51.08	0.00	1.33	V	52.41	68.23	15.82	PK
19545	49.28	0.00	3.61	V	52.89	73.98	21.09	PK
19545	38.17	0.03	3.61	V	41.81	53.98	12.17	AV
13030	51.05	0.00	1.33	H	52.38	68.23	15.85	PK
19545	49.17	0.00	3.61	H	52.78	73.98	21.20	PK
19545	38.04	0.03	3.61	H	41.68	53.98	12.30	AV

Band :	UNII 7
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	6535 MHz
Channel No.	117 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
13070	52.83	0.00	1.28	V	54.11	68.23	14.12	PK
19605	49.10	0.00	3.79	V	52.89	73.98	21.09	PK
19605	37.95	0.03	3.79	V	41.09	53.98	12.89	AV
13070	52.74	0.00	1.28	H	54.02	68.23	14.21	PK
19605	48.96	0.00	3.79	H	52.75	73.98	21.23	PK
19605	37.85	0.03	3.79	H	41.67	53.98	12.31	AV

Band :	UNII 7
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	6695 MHz
Channel No.	149 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
13390	53.94	0.000	1.72	V	55.66	73.98	18.32	PK
13390	39.92	0.030	1.72	V	41.67	53.98	12.31	AV
20085	47.56	0.000	6.22	V	53.78	73.98	20.20	PK
20085	36.07	0.030	6.22	V	42.32	53.98	11.66	AV
13390	53.46	0.000	1.72	H	55.18	73.98	18.80	PK
13390	39.88	0.030	1.72	H	41.63	53.98	12.35	AV
20085	47.39	0.000	6.22	H	53.61	73.98	20.37	PK
20085	35.98	0.030	6.22	H	42.23	53.98	11.75	AV

Band :	UNII 7
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	6855 MHz
Channel No.	181 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
13710	51.82	0.00	2.43	V	54.25	68.23	13.98	PK
20565	49.11	0.00	7.08	V	56.19	73.98	17.79	PK
20565	34.68	0.03	7.08	V	41.79	53.98	12.19	AV
13710	51.69	0.00	2.43	H	54.12	68.23	14.11	PK
20565	49.05	0.00	7.08	H	56.13	73.98	17.85	PK
20565	34.59	0.03	7.08	H	41.70	53.98	12.28	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	6895 MHz
Channel No.	189 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
13790	50.89	0.00	2.45	V	53.34	68.23	14.89	PK
20685	45.08	0.00	7.14	V	52.22	73.98	21.76	PK
20685	34.15	0.03	7.14	V	41.32	53.98	12.66	AV
13790	50.79	0.00	2.45	H	53.24	68.23	14.99	PK
20685	44.98	0.00	7.14	H	52.12	73.98	21.86	PK
20685	34.08	0.03	7.14	H	41.25	53.98	12.73	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	6995 MHz
Channel No.	209 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
13990	51.70	0.00	2.97	V	54.67	68.23	13.56	PK
20985	47.38	0.00	7.03	V	54.41	73.98	19.57	PK
20985	35.31	0.03	7.03	V	42.37	53.98	11.61	AV
13990	51.65	0.00	2.97	H	54.62	68.23	13.61	PK
20985	47.22	0.00	7.03	H	54.25	73.98	19.73	PK
20985	35.28	0.03	7.03	H	42.34	53.98	11.64	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	7115MHz
Channel No.	233 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
14230	51.20	0.00	3.57	V	54.77	68.23	13.46	PK
21345	50.17	0.00	6.02	V	56.19	73.98	17.79	PK
21345	37.81	0.03	6.02	V	43.86	53.98	10.12	AV
14230	51.18	0.00	3.57	H	54.75	68.23	13.48	PK
21345	50.06	0.00	6.02	H	56.08	73.98	17.90	PK
21345	37.74	0.03	6.02	H	43.79	53.98	10.19	AV

3) 802.11ax(HE40) SU (MIMO)

Band :	UNII 5
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5965 MHz
Channel No.	3 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11930	53.68	0.00	-0.88	V	52.80	73.98	21.18	PK
11930	40.54	0.03	-0.88	V	39.69	53.98	14.29	AV
17895	50.09	0.00	6.25	V	56.34	73.98	17.64	PK
17895	37.19	0.03	6.25	V	43.47	53.98	10.51	AV
11930	53.27	0.00	-0.88	H	52.39	73.98	21.59	PK
11930	40.31	0.03	-0.88	H	39.46	53.98	14.52	AV
17895	49.99	0.00	6.25	H	56.24	73.98	17.74	PK
17895	37.08	0.03	6.25	H	43.36	53.98	10.62	AV

Band :	UNII 5
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	6165 MHz
Channel No.	43 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12330	53.70	0.00	-0.04	V	53.66	73.98	20.32	PK
12330	40.46	0.03	-0.04	V	40.45	53.98	13.53	AV
18495	54.31	0.00	0.12	V	54.43	73.98	19.55	PK
18495	43.10	0.03	0.12	V	43.25	53.98	10.73	AV
12330	53.17	0.00	-0.04	H	53.13	73.98	20.85	PK
12330	40.42	0.03	-0.04	H	40.41	53.98	13.57	AV
18495	54.20	0.00	0.12	H	54.32	73.98	19.66	PK
18495	42.79	0.03	0.12	H	42.94	53.98	11.04	AV

Band :	UNII 5
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	6405 MHz
Channel No.	91 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12810	52.62	0.00	0.80	V	53.42	68.23	14.81	PK
19215	51.45	0.00	1.28	V	52.73	73.98	21.25	PK
19215	40.77	0.03	1.28	V	42.08	53.98	11.90	AV
12810	52.38	0.00	0.80	H	53.18	68.23	15.05	PK
19215	51.35	0.00	1.28	H	52.63	73.98	21.35	PK
19215	40.75	0.03	1.28	H	42.06	53.98	11.92	AV

4) 802.11ax(HE80) SU (MIMO)

Band :	UNII 5
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5985 MHz
Channel No.	7 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11970	54.04	0.00	-0.61	V	53.43	73.98	20.55	PK
11970	40.59	0.03	-0.61	V	40.01	53.98	13.97	AV
17955	51.15	0.00	6.41	V	57.56	73.98	16.42	PK
17955	37.14	0.03	6.41	V	43.58	53.98	10.40	AV
11970	53.95	0.00	-0.61	H	53.34	73.98	20.64	PK
11970	40.39	0.03	-0.61	H	39.81	53.98	14.17	AV
17955	51.11	0.00	6.41	H	57.52	73.98	16.46	PK
17955	37.05	0.03	6.41	H	43.49	53.98	10.49	AV

Band :	UNII 5
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	6145 MHz
Channel No.	39 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12290	52.62	0.00	0.07	V	52.69	73.98	21.29	PK
12290	39.66	0.03	0.07	V	39.76	53.98	14.22	AV
18435	53.36	0.00	0.41	V	53.77	73.98	20.21	PK
18435	42.65	0.03	0.41	V	43.09	53.98	10.89	AV
12290	39.55	0.00	0.07	H	39.62	73.98	34.36	PK
12290	39.55	0.03	0.07	H	39.65	53.98	14.33	AV
18435	53.29	0.00	0.41	H	53.70	73.98	20.28	PK
18435	42.56	0.03	0.41	H	43.00	53.98	10.98	AV

Band :	UNII 5
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	6385 MHz
Channel No.	87 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12770	52.55	0.00	0.84	V	53.39	68.23	14.84	PK
19155	51.96	0.00	0.87	V	52.83	73.98	21.15	PK
19155	41.38	0.03	0.87	V	42.28	53.98	11.70	AV
12770	52.42	0.00	0.84	H	53.26	68.23	14.97	PK
19155	51.84	0.00	0.87	H	52.71	73.98	21.27	PK
19155	41.21	0.03	0.87	H	42.11	53.98	11.87	AV

5) 802.11ax(HE160) SU (MIMO)

Band :	UNII 5
Operation Mode:	802.11ax(HE160)
Transfer MCS Index:	MCS0
Operating Frequency	6025 MHz
Channel No.	15 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12050	58.59	0.00	-0.61	V	57.98	73.98	16.00	PK
12050	43.29	0.01	-0.61	V	42.69	53.98	11.29	AV
18075	51.51	0.00	2.32	V	53.83	73.98	20.15	PK
18075	40.58	0.01	2.32	V	42.91	53.98	11.07	AV
12050	58.85	0.00	-0.61	H	58.24	73.98	15.74	PK
12050	43.46	0.01	-0.61	H	42.86	53.98	11.12	AV
18075	51.64	0.00	2.32	H	53.96	73.98	20.02	PK
18075	40.62	0.01	2.32	H	42.95	53.98	11.03	AV

Band :	UNII 5
Operation Mode:	802.11ax(HE160)
Transfer MCS Index:	MCS0
Operating Frequency	6185 MHz
Channel No.	47 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12370	51.31	0.00	0.07	V	51.38	73.98	22.60	PK
12370	39.59	0.01	0.07	V	39.67	53.98	14.31	AV
18555	54.53	0.00	-0.09	V	54.44	73.98	19.54	PK
18555	43.39	0.01	-0.09	V	43.31	53.98	10.67	AV
12370	39.86	0.00	0.07	H	39.93	73.98	34.05	PK
12370	39.86	0.01	0.07	H	39.94	53.98	14.04	AV
18555	54.75	0.00	-0.09	H	54.66	73.98	19.32	PK
18555	43.58	0.01	-0.09	H	43.50	53.98	10.48	AV

Band :	UNII 5
Operation Mode:	802.11ax(HE160)
Transfer MCS Index:	MCS0
Operating Frequency	6345 MHz
Channel No.	79 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L-A.G+D.F [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
12690	52.73	0.00	0.84	V	53.57	73.98	20.41	PK
19035	53.84	0.00	0.21	V	54.05	73.98	19.93	PK
19035	42.24	0.01	0.21	V	42.46	53.98	11.52	AV
12690	52.98	0.00	0.84	H	53.82	73.98	20.16	PK
19035	53.90	0.00	0.21	H	54.11	73.98	19.87	PK
19035	42.31	0.01	0.21	H	42.53	53.98	11.45	AV

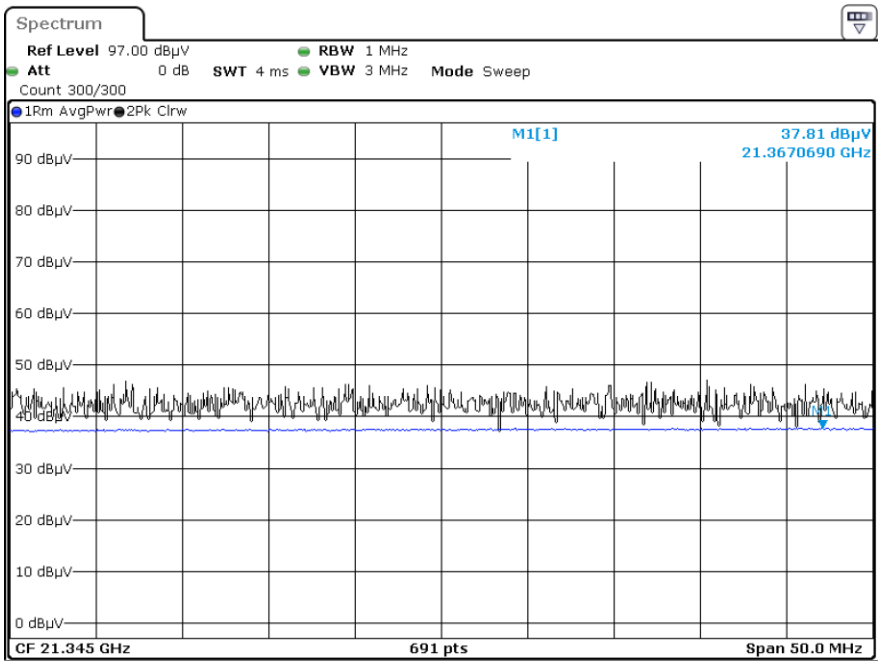
Note:

All Modes of operation were investigated and the worst case configuration results are reported.
In order to simplify the report, We only have attached RSE result of worst case.

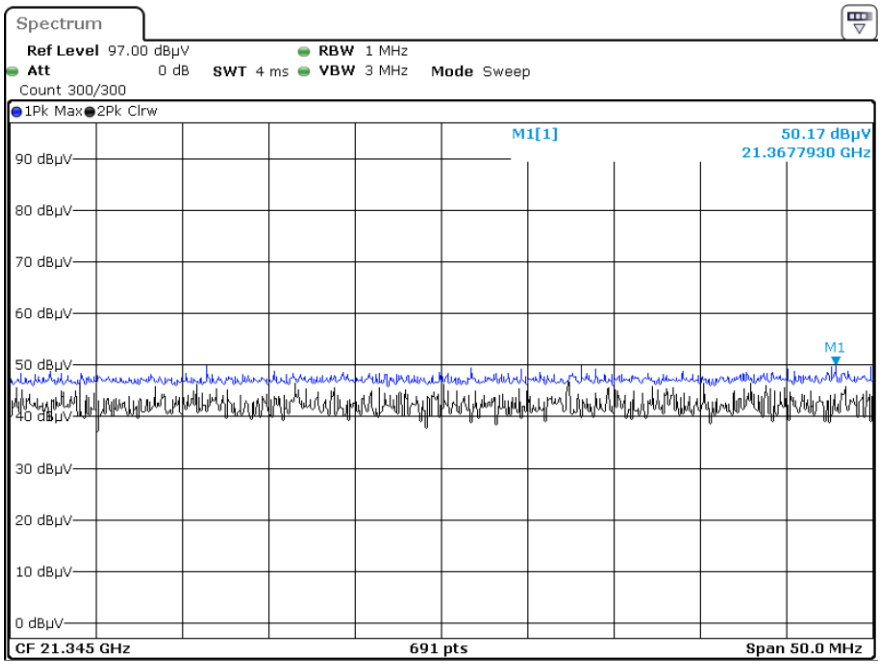
▣ Test Plots

[MIMO]

Average result (802.11ax(HE20)_SU, Ch.233 3rd Harmonic, X-V)



Peak result (802.11ax(HE20)_SU, Ch.233 3rd Harmonic, X-V)



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.10 RADIATED RESTRICTED BAND EDGE

[MIMO]

1) 802.11a

Band :	UNII 5
Operation Mode:	802.11a
Transfer Rate:	6 Mbps
Operating Frequency	5935 MHz
Channel No.	2 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5925	68.35	0.00	11.38	H	79.73	88.23	8.50	PK
5925	52.98	0.01	11.38	H	64.37	68.23	3.86	AV

Band :	UNII 8
Operation Mode:	802.11a
Transfer Rate:	6 Mbps
Operating Frequency	7115 MHz
Channel No.	233 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
#7125.5	54.64	0.00	14.30	H	68.94	88.23	19.29	PK
#7125.5	45.37	0.03	14.30	H	59.70	68.23	8.53	AV
#7126.5	49.24	0.00	14.30	H	63.54	88.23	24.69	PK
#7126.5	39.67	0.03	14.30	H	54.00	68.23	14.23	AV
7127	52.59	0.00	14.30	H	66.89	88.23	21.34	PK
7127	38.41	0.03	14.30	H	52.74	68.23	15.49	AV
7250	39.77	0.00	14.22	H	53.99	73.98	19.99	PK
7250	29.31	0.01	14.22	H	43.54	53.98	10.44	AV
7250	39.46	0.00	14.22	V	53.68	73.98	20.30	PK
7250	29.14	0.01	14.22	V	43.37	53.98	10.61	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

2) 802.11ax(HE20) 26 Tone

Band :	UNII 5
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5935 MHz
Channel No.	2 Ch
RU Offset	0

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
#5924.5	67.96	0.00	11.38	H	79.34	88.23	8.89	PK
#5924.5	54.62	0.03	11.38	H	66.03	68.23	2.20	AV
#5923.5	60.83	0.00	11.38	H	72.21	88.23	16.02	PK
#5923.5	47.67	0.03	11.38	H	59.08	68.23	9.15	AV
5923	69.02	0.00	11.38	H	80.40	88.23	7.83	PK
5923	45.71	0.03	11.38	H	57.12	68.23	11.11	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

Band :	UNII 8
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	7115 MHz
Channel No.	233 Ch
RU Offset	8

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
#7125.5	63.86	0.00	14.30	H	78.16	88.23	10.07	PK
#7125.5	50.64	0.03	14.30	H	64.97	68.23	3.26	AV
#7126.5	56.51	0.00	14.30	H	70.81	88.23	17.42	PK
#7126.5	43.92	0.03	14.30	H	58.25	68.23	9.98	AV
7127	63.43	0.00	14.30	H	77.73	88.23	10.50	PK
7127	41.35	0.03	14.30	H	55.68	68.23	12.55	AV
7250	38.77	0.00	14.22	H	52.99	73.98	20.99	PK
7250	29.10	0.03	14.22	H	43.35	53.98	10.63	AV
7250	38.69	0.00	14.22	V	52.91	73.98	21.07	PK
7250	28.95	0.03	14.22	V	43.20	53.98	10.78	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

3) 802.11ax(HE20) 52 Tone

Band :	UNII 5
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5935 MHz
Channel No.	2 Ch
RU Offset	37

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
#5924.5	66.23	0.00	11.38	H	77.61	88.23	10.62	PK
#5924.5	53.84	0.03	11.38	H	65.25	68.23	2.98	AV
#5923.5	59.79	0.00	11.38	H	71.17	88.23	17.06	PK
#5923.5	47.32	0.03	11.38	H	58.73	68.23	9.50	AV
5923	67.83	0.00	11.38	H	79.21	88.23	9.02	PK
5923	45.25	0.03	11.38	H	56.66	68.23	11.57	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

Band :	UNII 8
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	7115 MHz
Channel No.	233 Ch
RU Offset	40

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
#7125.5	64.07	0.00	14.30	H	78.37	88.23	9.86	PK
#7125.5	51.63	0.03	14.30	H	65.96	68.23	2.27	AV
#7126.5	57.61	0.00	14.30	H	71.91	88.23	16.32	PK
#7126.5	45.29	0.03	14.30	H	59.62	68.23	8.61	AV
7127	62.74	0.00	14.30	H	77.04	88.23	11.19	PK
7127	42.60	0.03	14.30	H	56.93	68.23	11.30	AV
7250	40.04	0.00	14.22	H	54.26	73.98	19.72	PK
7250	29.03	0.03	14.22	H	43.28	53.98	10.70	AV
7250	39.86	0.00	14.22	V	54.08	73.98	19.90	PK
7250	28.84	0.03	14.22	V	43.09	53.98	10.89	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

4) 802.11ax(HE20) 106 Tone

Band :	UNII 5
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5935 MHz
Channel No.	2 Ch
RU Offset	53

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
#5924.5	66.75	0.00	11.38	H	78.13	88.23	10.10	PK
#5924.5	53.92	0.03	11.38	H	65.33	68.23	2.90	AV
#5923.5	59.45	0.00	11.38	H	70.83	88.23	17.40	PK
#5923.5	47.04	0.03	11.38	H	58.45	68.23	9.78	AV
5923	67.46	0.00	11.38	H	78.84	88.23	9.39	PK
5923	46.18	0.03	11.38	H	57.59	68.23	10.64	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

Band :	UNII 8
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	7115 MHz
Channel No.	233 Ch
RU Offset	54

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
#7125.5	63.84	0.00	14.30	H	78.14	88.23	10.09	PK
#7125.5	51.66	0.03	14.30	H	65.99	68.23	2.24	AV
#7126.5	57.15	0.00	14.30	H	71.45	88.23	16.78	PK
#7126.5	45.37	0.03	14.30	H	59.70	68.23	8.53	AV
7127	64.60	0.00	14.30	H	78.90	88.23	9.33	PK
7127	43.45	0.03	14.30	H	57.78	68.23	10.45	AV
7250	39.82	0.00	14.22	H	54.04	73.98	19.94	PK
7250	29.23	0.03	14.22	H	43.48	53.98	10.50	AV
7250	39.76	0.00	14.22	V	53.98	73.98	20.00	PK
7250	29.15	0.03	14.22	V	43.40	53.98	10.58	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

5) 802.11ax(HE20) 242 Tone

Band :	UNII 5
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5935 MHz
Channel No.	2 Ch
RU Offset	61

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
#5924.5	64.75	0.00	11.38	H	76.13	88.23	12.10	PK
#5924.5	53.85	0.03	11.38	H	65.26	68.23	2.97	AV
#5923.5	58.09	0.00	11.38	H	69.47	88.23	18.76	PK
#5923.5	47.44	0.03	11.38	H	58.85	68.23	9.38	AV
5923	66.63	0.00	11.38	H	78.01	88.23	10.22	PK
5923	45.75	0.03	11.38	H	57.16	68.23	11.07	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

Band :	UNII 8
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	7115 MHz
Channel No.	233 Ch
RU Offset	61

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
#7125.5	63.66	0.00	14.30	H	77.96	88.23	10.27	PK
#7125.5	51.52	0.03	14.30	H	65.85	68.23	2.38	AV
#7126.5	57.90	0.00	14.30	H	72.20	88.23	16.03	PK
#7126.5	45.58	0.03	14.30	H	59.91	68.23	8.32	AV
7127	63.91	0.00	14.30	H	78.21	88.23	10.02	PK
7127	43.10	0.03	14.30	H	57.43	68.23	10.80	AV
7250	40.25	0.00	14.22	H	54.47	73.98	19.51	PK
7250	29.10	0.03	14.22	H	43.35	53.98	10.63	AV
7250	40.12	0.00	14.22	V	54.34	73.98	19.64	PK
7250	28.96	0.03	14.22	V	43.21	53.98	10.77	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

6) 802.11ax(HE20) SU

Band :	UNII 5
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5935 MHz
Channel No.	2 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
#5924.5	62.66	0.00	11.38	H	74.04	88.23	14.19	PK
#5924.5	52.54	0.03	11.38	H	63.95	68.23	4.28	AV
#5923.5	58.09	0.00	11.38	H	69.47	88.23	18.76	PK
#5923.5	46.52	0.03	11.38	H	57.93	68.23	10.30	AV
5923	61.25	0.00	11.38	H	72.63	88.23	15.60	PK
5923	45.10	0.03	11.38	H	56.51	68.23	11.72	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

Band :	UNII 8
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	7115 MHz
Channel No.	233 Ch

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
#7125.5	60.83	0.00	14.30	H	75.13	88.23	13.10	PK
#7125.5	48.42	0.03	14.30	H	62.75	68.23	5.48	AV
#7126.5	52.51	0.00	14.30	H	66.81	88.23	21.42	PK
#7126.5	41.55	0.03	14.30	H	55.88	68.23	12.35	AV
7127	55.22	0.00	14.30	H	69.52	88.23	18.71	PK
7127	39.54	0.03	14.30	H	53.87	68.23	14.36	AV
7250	39.84	0.00	14.22	H	54.06	73.98	19.92	PK
7250	28.94	0.03	14.22	H	43.19	53.98	10.79	AV
7250	39.14	0.00	14.22	V	53.36	73.98	20.62	PK
7250	28.58	0.03	14.22	V	42.83	53.98	11.15	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

7) 802.11ax(HE40) 26 Tone

Band :	UNII 5
Operation Mode:	802.11ax(HE40)
Transfer Rate:	MCS0
Operating Frequency	5965 MHz
Channel No.	3 Ch
RU Offset	0

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5925	40.45	0.00	11.38	H	51.83	88.23	36.40	PK
5925	28.80	0.03	11.38	H	40.21	68.23	28.02	AV
5925	40.35	0.00	11.38	V	51.73	88.23	36.50	PK
5925	28.45	0.03	11.38	V	39.86	68.23	28.37	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE40)
Transfer Rate:	MCS0
Operating Frequency	7085 MHz
Channel No.	227 Ch
RU Offset	17

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
7125	41.04	0.00	14.30	H	55.34	88.23	32.89	PK
7125	29.05	0.03	14.30	H	43.38	68.23	24.85	AV
7250	38.86	0.00	14.22	H	53.08	73.98	20.90	PK
7250	28.89	0.03	14.22	H	43.14	53.98	10.84	AV
7127	40.15	0.00	14.30	V	54.45	88.23	33.78	PK
7127	29.01	0.03	14.30	V	43.34	68.23	24.89	AV
7250	38.48	0.00	14.22	V	52.70	73.98	21.28	PK
7250	28.71	0.03	14.22	V	42.96	53.98	11.02	AV

8) 802.11ax(HE40) 484 Tone

Band :	UNII 5
Operation Mode:	802.11ax(HE40)
Transfer Rate:	MCS0
Operating Frequency	5965 MHz
Channel No.	3 Ch
RU Offset	65

Frequency [MHz]	Measured Level [dBμV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5925	54.63	0.00	11.38	H	66.01	88.23	22.22	PK
5925	32.68	0.03	11.38	H	44.09	68.23	24.14	AV
5925	53.95	0.00	11.38	V	65.33	88.23	22.90	PK
5925	32.54	0.03	11.38	V	43.95	68.23	24.28	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE40)
Transfer Rate:	MCS0
Operating Frequency	7085 MHz
Channel No.	227 Ch
RU Offset	65

Frequency [MHz]	Measured Level [dBμV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
7125	50.12	0.00	14.30	H	64.42	88.23	23.81	PK
7125	31.28	0.03	14.30	H	45.61	68.23	22.62	AV
7250	38.95	0.00	14.22	H	53.17	73.98	20.81	PK
7250	29.12	0.03	14.22	H	43.37	53.98	10.61	AV
7127	49.87	0.00	14.30	V	64.17	88.23	24.06	PK
7127	31.01	0.03	14.30	V	45.34	68.23	22.89	AV
7250	38.49	0.00	14.22	V	52.71	73.98	21.27	PK
7250	28.75	0.03	14.22	V	43.00	53.98	10.98	AV

9) 802.11ax(HE80) 26 Tone

Band :	UNII 5
Operation Mode:	802.11ax(HE80)
Transfer Rate:	MCS0
Operating Frequency	5985 MHz
Channel No.	7 Ch
RU Offset	0

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5925	45.61	0.00	11.38	H	56.99	88.23	31.24	PK
5925	29.04	0.03	11.38	H	40.45	68.23	27.78	AV
5925	45.45	0.00	11.38	V	56.83	88.23	31.40	PK
5925	28.86	0.03	11.38	V	40.27	68.23	27.96	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE80)
Transfer Rate:	MCS0
Operating Frequency	7025 MHz
Channel No.	215 Ch
RU Offset	36

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
7127	39.83	0.00	14.30	H	54.13	88.23	34.10	PK
7127	29.14	0.03	14.30	H	43.47	68.23	24.76	AV
7250	38.91	0.00	14.22	H	53.13	73.98	20.85	PK
7250	28.84	0.03	14.22	H	43.09	53.98	10.89	AV
7127	38.56	0.00	14.30	V	52.86	88.23	35.37	PK
7127	28.92	0.03	14.30	V	43.25	68.23	24.98	AV
7250	38.17	0.00	14.22	V	52.39	73.98	21.59	PK
7250	28.71	0.03	14.22	V	42.96	53.98	11.02	AV

10) 802.11ax(HE80) 996 Tone

Band :	UNII 5
Operation Mode:	802.11ax(HE80)
Transfer Rate:	MCS0
Operating Frequency	5985 MHz
Channel No.	7 Ch
RU Offset	67

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5925	48.18	0.00	11.38	H	59.56	88.23	28.67	PK
5925	30.61	0.03	11.38	H	42.02	68.23	26.21	AV
5925	48.02	0.00	11.38	V	59.40	88.23	28.83	PK
5925	30.39	0.03	11.38	V	41.80	68.23	26.43	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE80)
Transfer Rate:	MCS0
Operating Frequency	7025 MHz
Channel No.	215 Ch
RU Offset	67

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
7127	44.35	0.00	14.30	H	58.65	88.23	29.58	PK
7127	29.15	0.03	14.30	H	43.48	68.23	24.75	AV
7250	39.11	0.00	14.22	H	53.33	73.98	20.65	PK
7250	28.95	0.03	14.22	H	43.20	53.98	10.78	AV
7127	42.58	0.00	14.30	V	56.88	88.23	31.35	PK
7127	28.75	0.03	14.30	V	43.08	68.23	25.15	AV
7250	38.86	0.00	14.22	V	53.08	73.98	20.90	PK
7250	28.87	0.03	14.22	V	43.12	53.98	10.86	AV

11) 802.11ax(HE160) 996 Tone

Band :	UNII 5
Operation Mode:	802.11ax(HE160)_80L
Transfer Rate:	MCS0
Operating Frequency	6025 MHz
Channel No.	15 Ch
RU Offset	67

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5925	56.57	0.00	11.38	H	67.95	88.23	20.28	PK
5925	35.90	0.03	11.38	H	47.31	68.23	20.92	AV
5925	55.88	0.00	11.38	V	67.26	88.23	20.97	PK
5925	35.18	0.03	11.38	V	46.59	68.23	21.64	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE160)_80U
Transfer Rate:	MCS0
Operating Frequency	6985 MHz
Channel No.	207 Ch
RU Offset	67

Frequency [MHz]	Measured Level [dBµV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
7127	55.28	0.00	14.30	H	69.58	88.23	18.65	PK
7127	33.56	0.03	14.30	H	47.89	68.23	20.34	AV
7250	39.50	0.00	14.22	H	53.72	73.98	20.26	PK
7250	29.14	0.03	14.22	H	43.39	53.98	10.59	AV
7127	53.41	0.00	14.30	V	67.71	88.23	20.52	PK
7127	32.79	0.03	14.30	V	47.12	68.23	21.11	AV
7250	38.74	0.00	14.22	V	52.96	73.98	21.02	PK
7250	28.80	0.03	14.22	V	43.05	53.98	10.93	AV

12) 802.11ax(HE160) SU

Band :	UNII 5
Operation Mode:	802.11ax(HE160)
Transfer Rate:	MCS0
Operating Frequency	6025 MHz
Channel No.	15 Ch

Frequency [MHz]	Measured Level [dBμV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5925	46.73	0.00	11.38	H	58.11	88.23	30.12	PK
5925	30.01	0.01	11.38	H	41.40	68.23	26.83	AV
5925	45.89	0.00	11.38	V	57.27	88.23	30.96	PK
5925	29.86	0.01	11.38	V	41.25	68.23	26.98	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE160)
Transfer Rate:	MCS0
Operating Frequency	6985 MHz
Channel No.	207 Ch

Frequency [MHz]	Measured Level [dBμV]	Duty Cycle Factor	A.F+C.L+D.F-A.G+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
7127	56.32	0.00	14.30	H	70.62	88.23	17.61	PK
7127	35.10	0.01	14.30	H	49.41	68.23	18.82	AV
7250	38.98	0.00	14.22	H	53.20	73.98	20.78	PK
7250	29.04	0.01	14.22	H	43.27	53.98	10.71	AV
7127	54.90	0.00	14.30	V	69.20	88.23	19.03	PK
7127	34.22	0.01	14.30	V	48.53	68.23	19.70	AV
7250	38.17	0.00	14.22	V	52.39	73.98	21.59	PK
7250	28.48	0.01	14.22	V	42.71	53.98	11.27	AV

Note:

All Modes of operation were investigated and the worst case configuration results are reported.

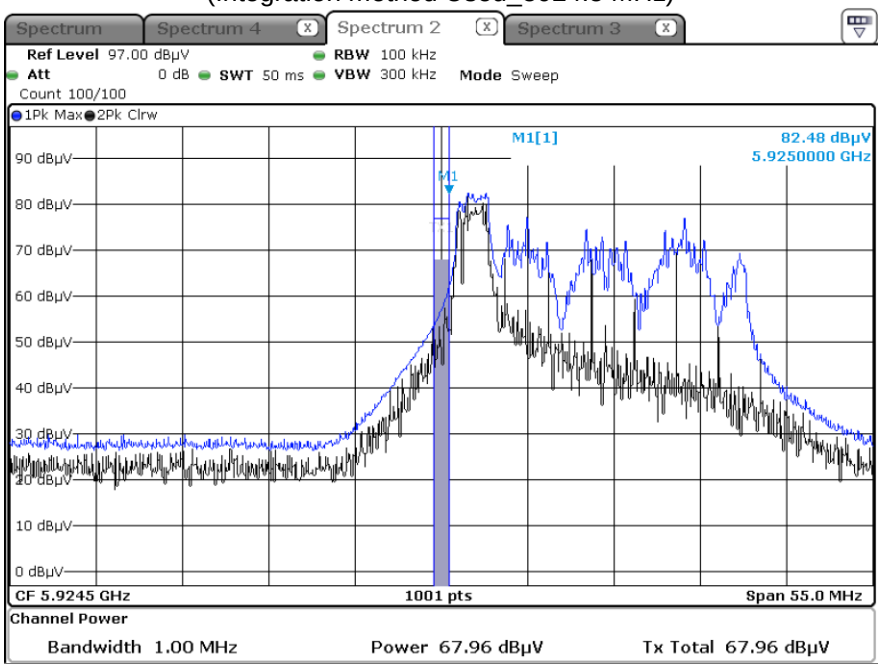
In order to simplify the report, We only have attached Bandedge result of worst case.

▣ Test Plots

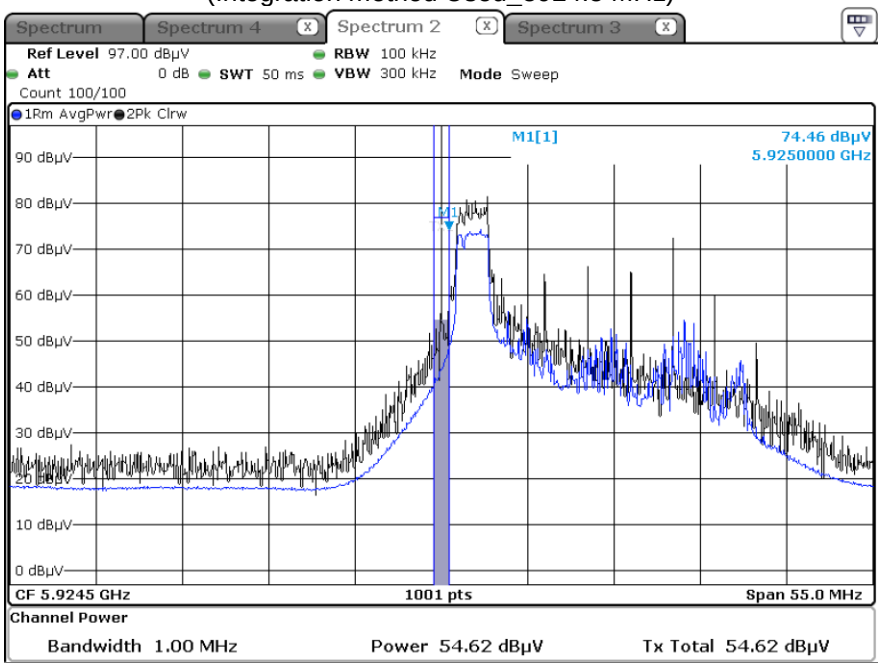
[MIMO]

(UNII 5_26 Tone RU0) – Y-H

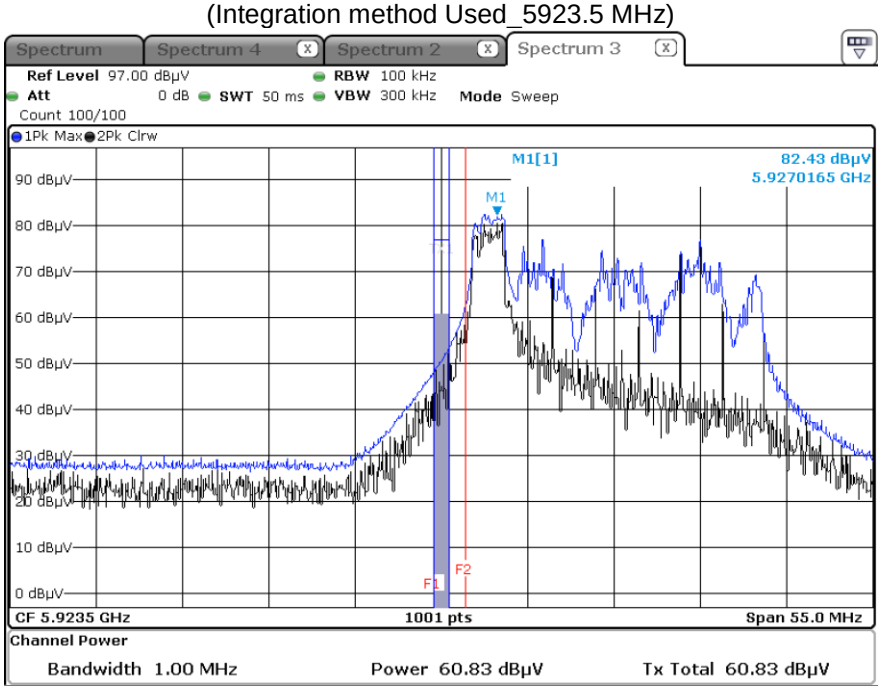
Peak result (802.11ax(HE20), Ch.2)
(Integration method Used_5924.5 MHz)



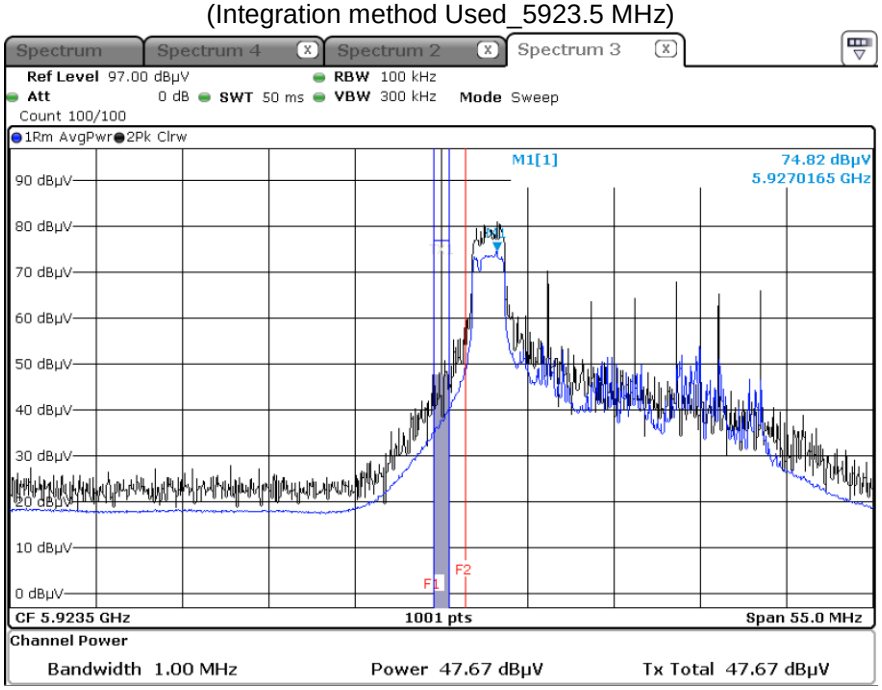
Average result (802.11ax(HE20), Ch.2)
(Integration method Used_5924.5 MHz)



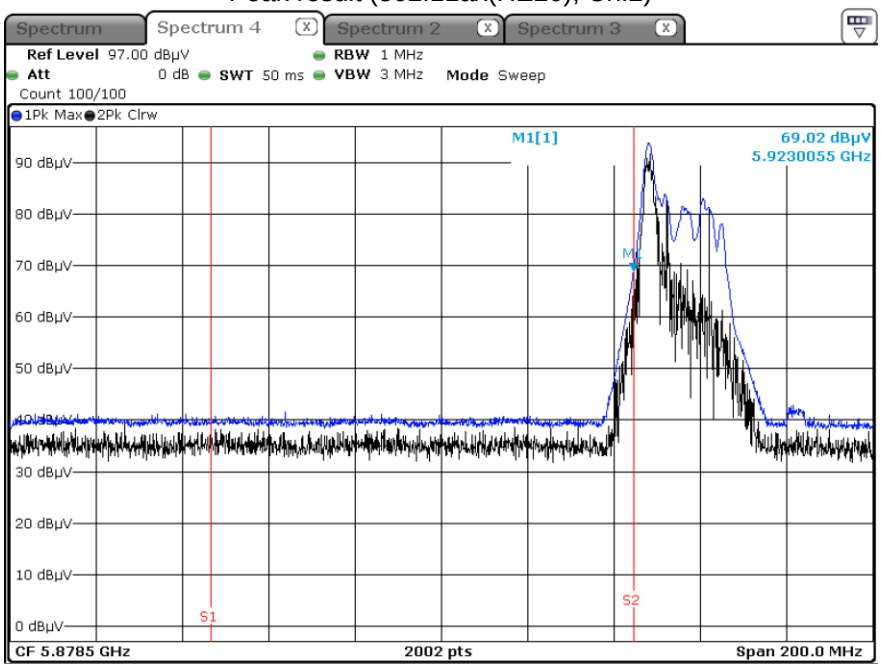
Peak result (802.11ax(HE20), Ch.2)
(Integration method Used_5923.5 MHz)



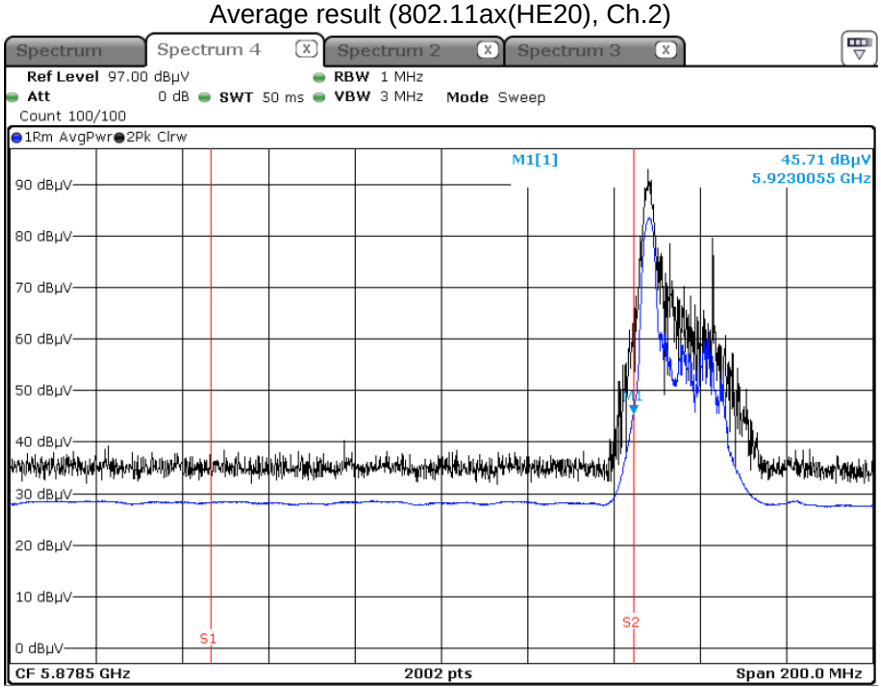
Average result (802.11ax(HE20), Ch.2)
(Integration method Used_5923.5 MHz)



Peak result (802.11ax(HE20), Ch.2)



Average result (802.11ax(HE20), Ch.2)



Note:

Only the worst case plots for Radiated Restricted Band Edge.

10.11 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

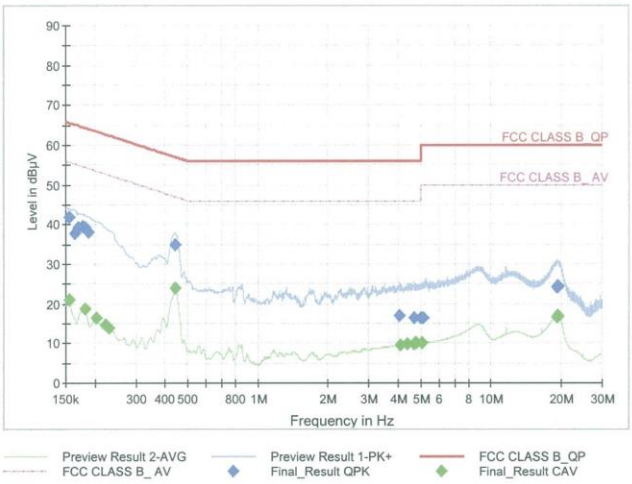
6G MODE_L1 1 / 2

Test Report

Common Information

EUT :	SM-S911B/DS
Manufacturer :	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions :	WLAN 6G MODE_L1

Full Spectrum



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1545	41.86	65.75	23.90	9.000	L1	OFF	9.7
0.1635	37.68	65.28	27.60	9.000	L1	OFF	9.7
0.1703	39.16	64.95	25.79	9.000	L1	OFF	9.7
0.1770	39.53	64.63	25.10	9.000	L1	OFF	9.7
0.1815	39.11	64.42	25.31	9.000	L1	OFF	9.7
0.1883	38.11	64.11	26.00	9.000	L1	OFF	9.7
0.4425	34.87	57.02	22.15	9.000	L1	OFF	9.7
4.0708	16.92	56.00	39.08	9.000	L1	OFF	9.8
4.6940	16.34	56.00	39.66	9.000	L1	OFF	9.8
5.0135	16.50	60.00	43.50	9.000	L1	OFF	9.9
5.0405	16.55	60.00	43.45	9.000	L1	OFF	9.9
5.1418	16.42	60.00	43.58	9.000	L1	OFF	9.9
19.2268	24.11	60.00	35.89	9.000	L1	OFF	10.3
19.3078	24.30	60.00	35.70	9.000	L1	OFF	10.3
19.3528	24.25	60.00	35.75	9.000	L1	OFF	10.3
19.3843	24.39	60.00	35.61	9.000	L1	OFF	10.3
19.3910	24.13	60.00	35.87	9.000	L1	OFF	10.3
19.4248	24.10	60.00	35.90	9.000	L1	OFF	10.3

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6G MODE_L1 2 / 2

Final_Result_CAV

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1545	21.13	55.75	34.62	9.000	L1	OFF	9.7
0.1815	18.79	54.42	35.63	9.000	L1	OFF	9.7
0.2040	16.49	53.45	36.96	9.000	L1	OFF	9.7
0.2220	14.78	52.74	37.96	9.000	L1	OFF	9.7
0.2310	13.90	52.41	38.52	9.000	L1	OFF	9.7
0.4403	23.89	47.06	23.16	9.000	L1	OFF	9.7
4.0753	9.49	46.00	36.51	9.000	L1	OFF	9.8
4.3970	9.84	46.00	36.16	9.000	L1	OFF	9.8
4.6940	9.92	46.00	36.08	9.000	L1	OFF	9.8
4.7503	10.07	46.00	35.93	9.000	L1	OFF	9.8
4.7795	10.14	46.00	35.86	9.000	L1	OFF	9.8
5.0450	10.14	50.00	39.86	9.000	L1	OFF	9.9
19.1480	16.86	50.00	33.14	9.000	L1	OFF	10.3
19.2493	16.78	50.00	33.22	9.000	L1	OFF	10.3
19.3280	16.93	50.00	33.07	9.000	L1	OFF	10.3
19.3325	16.85	50.00	33.15	9.000	L1	OFF	10.3
19.3528	16.82	50.00	33.18	9.000	L1	OFF	10.3
19.3618	16.84	50.00	33.16	9.000	L1	OFF	10.3

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Conducted Emissions (Line 2)

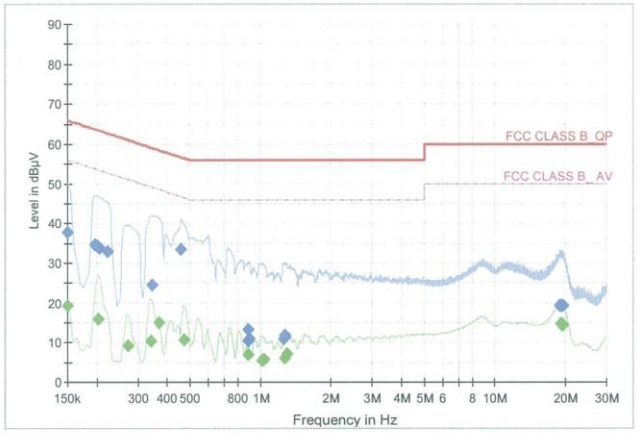
6G MODE_N 1 / 2

Test Report

Common Information

EUT :	SM-S911B/DS
Manufacturer :	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions :	WLAN 6G MODE_N

Full Spectrum



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1500	37.73	66.00	28.27	9.000	N	OFF	9.6
0.1973	34.68	63.73	29.04	9.000	N	OFF	9.6
0.2018	34.24	63.54	29.30	9.000	N	OFF	9.6
0.2063	33.66	63.36	29.70	9.000	N	OFF	9.6
0.2220	32.95	62.74	29.80	9.000	N	OFF	9.6
0.3458	24.39	59.06	34.67	9.000	N	OFF	9.6
0.4583	33.40	56.72	23.32	9.000	N	OFF	9.6
0.8870	13.17	56.00	42.83	9.000	N	OFF	9.7
0.8915	10.28	56.00	45.72	9.000	N	OFF	9.7
0.9005	10.96	56.00	45.04	9.000	N	OFF	9.7
1.2628	11.10	56.00	44.90	9.000	N	OFF	9.7
1.2673	11.27	56.00	44.73	9.000	N	OFF	9.7
1.2785	11.95	56.00	44.05	9.000	N	OFF	9.7
18.8285	19.20	60.00	40.80	9.000	N	OFF	10.4
19.1075	19.35	60.00	40.65	9.000	N	OFF	10.4
19.1773	19.38	60.00	40.62	9.000	N	OFF	10.4
19.3843	19.45	60.00	40.55	9.000	N	OFF	10.5
19.4585	19.38	60.00	40.62	9.000	N	OFF	10.5

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6G MODE_N 2 / 2

Final_Result_CAV

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1500	19.30	56.00	36.70	9.000	N	OFF	9.6
0.2040	15.91	53.45	37.54	9.000	N	OFF	9.6
0.2715	9.21	51.07	41.86	9.000	N	OFF	9.6
0.3413	10.49	49.17	38.69	9.000	N	OFF	9.6
0.3705	15.02	48.49	33.46	9.000	N	OFF	9.6
0.4718	10.55	46.48	35.94	9.000	N	OFF	9.6
0.8870	6.84	46.00	39.16	9.000	N	OFF	9.7
1.0153	5.44	46.00	40.56	9.000	N	OFF	9.7
1.0288	5.52	46.00	40.48	9.000	N	OFF	9.7
1.0355	5.84	46.00	40.16	9.000	N	OFF	9.7
1.2763	5.99	46.00	40.01	9.000	N	OFF	9.7
1.3033	7.29	46.00	38.71	9.000	N	OFF	9.7
19.1863	14.58	50.00	35.42	9.000	N	OFF	10.4
19.2560	14.51	50.00	35.49	9.000	N	OFF	10.5
19.2853	14.53	50.00	35.47	9.000	N	OFF	10.5
19.3528	14.55	50.00	35.45	9.000	N	OFF	10.5
19.4045	14.69	50.00	35.31	9.000	N	OFF	10.5
19.4675	14.49	50.00	35.51	9.000	N	OFF	10.5

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11. LIST OF TEST EQUIPMENT

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	08/22/2023	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	06/07/2023	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	03/04/2023	Annual
Signal Analyzer	N9030A	Agilent	MY49431210	01/11/2023	Annual
Power Measurement Set	OSP 120	Rohde & Schwarz	101231	06/14/2023	Annual
Power Meter	N1911A	Agilent	MY45100523	03/24/2023	Annual
Power Sensor	N1921A	Keysight	MY57820067	03/24/2023	Annual
Directional Coupler	87300B	Agilent	3116A03621	11/02/2022	Annual
Power Splitter	11667B	Hewlett Packard	05001	05/18/2023	Annual
DC Power Supply	E3646A	Agilent	MY40002937	12/14/2022	Annual
Attenuator(10 dB)	8493C	Hewlett Packard	07560	06/14/2023	Annual
4 Way Power Divider	4426-4	Narda	11927	01/18/2023	Annual
VECTOR SIGNAL GENERATOR	SMW200A	Rohde & Schwarz	100988	03/10/2023	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	HCT CO., LTD.	N/A	N/A	N/A
Wireless AP	GT-AXE11000	ASUS	M6IAJF201782 (FCC ID : MSQ-RTAXJF00)	N/A	N/A

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller(Antenna mast)	CO3000	Innco system	CO3000-4p	N/A	N/A
Antenna Position Tower	MA4640/800-XP-EP	Innco system	N/A	N/A	N/A
Controller	EM1000	Audix	060520	N/A	N/A
Turn Table	N/A	Audix	N/A	N/A	N/A
Loop Antenna	FMZB 1513	Rohde & Schwarz	1513-333	03/17/2024	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	760	02/22/2023	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	02299	03/24/2024	Biennial
Horn Antenna (15GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170342	09/29/2024	Biennial
Spectrum Analyzer	FSV40-N	Rohde & Schwarz	102168	07/04/2023	Annual
Signal Analyzer	N9030A	Agilent	MY49431210	01/11/2023	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	5	06/13/2023	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	6	06/13/2023	Annual
Band Reject Filter	WRCJV2400/2483.5-2370/2520-60/12SS	Wainwright Instruments	2	01/06/2023	Annual
Band Reject Filter	WRCJV5100/5850-40/50-8EEK	Wainwright Instruments	1	02/07/2023	Annual
High Pass Filter	WHK3.0/18G-10EF	Wainwright Instruments	8	01/21/2023	Annual
High Pass Filter	WHKX8-6090-7000-18000-40SS	Wainwright Instruments	25	01/21/2023	Annual
Attenuator (3 dB)	18B-03	Api tech.	1	01/21/2023	Annual
Attenuator(10 dB)	8493C-10	Agilent	08285	01/21/2023	Annual
Power Amplifier	CBLU1183540	CERNEX	22964	01/21/2023	Annual
Power Amplifier	CBL06185030	CERNEX	22965	01/21/2023	Annual
Power Amplifier	CBL18265035	CERNEX	22966	12/02/2022	Annual
Power Amplifier	CBL26405040	CERNEX	25956	03/11/2023	Annual
High Pass Filter	WHKX10-7150-8000-18000-50SS	Wainwright Instruments	1	03/11/2023	Annual

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

12. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2210-FC034-P