74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA
TEL: +82-31-645-6300 FAX: +82-31-645-6401

FCC UNII 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 08, 2022

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

Report No.: HCT-RF-2210-FC033-R3

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

Model:	SM-S911B/DS
Additional Model:	SM-S911B
EUT Type:	Mobile Phone
Modulation type	OFDMA,OFDM
FCC Classification:	Unlicensed National Information Infrastructure(NII)
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-FC033	October 21, 2022	- First Approval Report
HCT-RF-2210-FC033-R1	November 03, 2022	- Revised Typo (Page.187)
HCT-RF-2210-FC033-R2	November 07, 2022	- Updated Output Power & P.S.D Contents
HCT-RF-2210-FC033-R3	November 08, 2022	- Revised the Sample Calculation (Page.7)

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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	OFDMA,OFDM	
Frequency Range (MHz)	U-NII-1	20 MHz BW : 5180 - 5240 40 MHz BW : 5190 - 5230 80 MHz BW : 5210 160 MHz BW : 5250
	U-NII-2A	20 MHz BW : 5260 - 5320 40 MHz BW : 5270 - 5310 80 MHz BW : 5290 160 MHz BW : 5250
	U-NII-2C	20 MHz BW : 5500 - 5720 40 MHz BW : 5510 - 5710 80 MHz BW : 5530 – 5690 160 MHz BW : 5570
	U-NII-3	20 MHz BW : 5745 - 5825 40 MHz BW : 5755 - 5795 80 MHz BW : 5775 160 MHz BW : 5815
	U-NII-4	20 MHz BW : 5845 - 5885 40 MHz BW : 5835 - 5875 80 MHz BW : 5855 160 MHz BW : 5815
Straddle channel	Supported	
TDWR Band	Supported	
Dynamic Frequency Selection	Slave without radar detection	
Date(s) of Tests	September 06, 2022 ~ October 21, 2022	
Serial number	Radiated: R3CT90BE36R Conducted : R3CT706PF2A	

ANTENNA CONFIGURATIONS

1. Antenna configuration

Configurations	SISO		MIMO	
	Ant.1	Ant.2	CDD	SDM
802.11ax	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 v02r01F) 2) f) (ii)

Directional gain =

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

Band	Ant Gain (dBi)		N_{ANT}/ N_{SS}	Directional Gain (dBi)
UNII 1	ANT1	-4.84	2 / 2	-0.89
	ANT2	-3.05		
UNII 2A	ANT1	-3.14	2 / 2	0.40
	ANT2	-2.12		
UNII 2C	ANT1	-2.69	2 / 2	-0.81
	ANT2	-5.11		
UNII 3	ANT1	-2.32	2 / 2	-0.58
	ANT2	-5.07		
UNII 4	ANT1	-3.14	2 / 2	-0.91
	ANT2	-4.77		

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 total conducted average output power as follows:

Band	Mode	MIMO	
		(Ant 1 + Ant 2) Power	
		(dBm)	(W)
UNII1	802.11ax (HE20)	18.95	0.078
	802.11ax (HE40)	17.98	0.063
	802.11ax (HE80)	17.16	0.052
UNII2A	802.11ax (HE20)	19.07	0.081
	802.11ax (HE40)	18.16	0.065
	802.11ax (HE80)	17.81	0.060
UNII 1&2A	802.11ax (HE160)	15.77	0.038
UNII2C	802.11ax (HE20)	18.78	0.075
	802.11ax (HE40)	17.65	0.058
	802.11ax (HE80)	17.59	0.057
UNII 2A&2C	802.11ax (HE160)	15.80	0.038
UNII3	802.11ax (HE20)	19.08	0.081
	802.11ax (HE40)	18.12	0.065
	802.11ax (HE80)	17.96	0.062
UNII4	802.11ax (HE20)	19.04	0.080
	802.11ax (HE40)	18.06	0.064
	802.11ax (HE80)	17.94	0.062
UNII 4	802.11ax (HE160)	16.54	0.045

Band	Mode	MIMO	
		(Ant 1 + Ant 2) EIRP Power	
		(dBm)	(W)
UNII4	802.11ax (HE20)	18.13	0.065
	802.11ax (HE40)	17.15	0.052
	802.11ax (HE80)	17.03	0.050
UNII 4	802.11ax (HE160)	15.63	0.037

3. TEST METHODOLOGY

The measurement procedure described in FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 dated December 14, 2017 entitled “Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part15, Subpart E” and ANSI C63.10(Version : 2013) ‘the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices’ were used in the measurement. Additionally, for U-NII-4 band, use the following measurement procedure KDB 291074 D02 EMC Measurement v01

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.

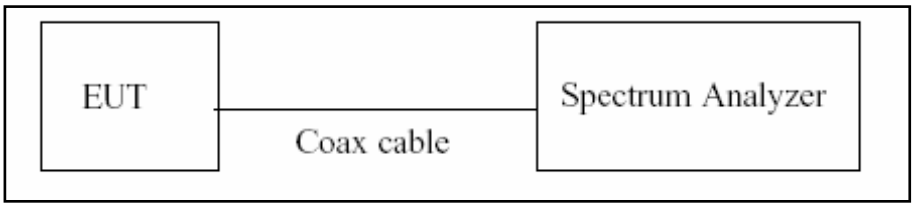
The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

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.

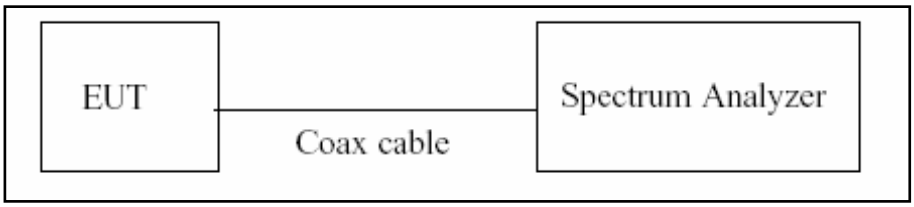
1. RBW = 8 MHz (the largest available value)
2. VBW = 8 MHz (≥ RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Measure T_{total} and T_{on}
8. Calculate Duty Cycle = T_{on}/ T_{total} and Duty Cycle Factor = 10log(1/Duty Cycle)

8.2. 6 dB Bandwidth & 26 dB Bandwidth

Limit

Within the 5.725-5.85 GHz(NII-3) &5.85-5.925 GHz(NII-4) band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

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 %.

Test Procedure (6 dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer.

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

1. RBW = 100 kHz
2. VBW ≥ 3 x RBW
3. Detector = Peak
4. Trace mode = Max Hold
5. Allow the trace to stabilize
6. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points(upper and lower frequencies) that are attenuated by 6 dB relative to the maximum lever measured in the fundamental emission.

Note:

1. We tested X dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer.
2. DFS test channels should be defined. So, We performed the OBW test to prove that no part of the fundamental emissions of any channels belong to UNII1 and UNII3 band for DFS.
3. The 26 dB bandwidth is used to determine the conducted power limits.

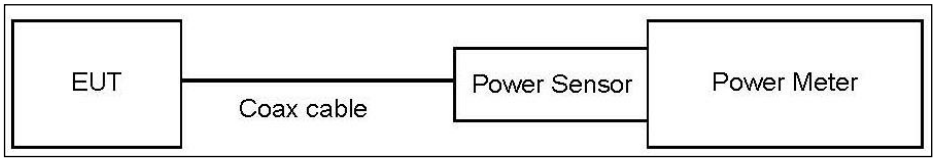
8.3. Output Power Measurement

Limit

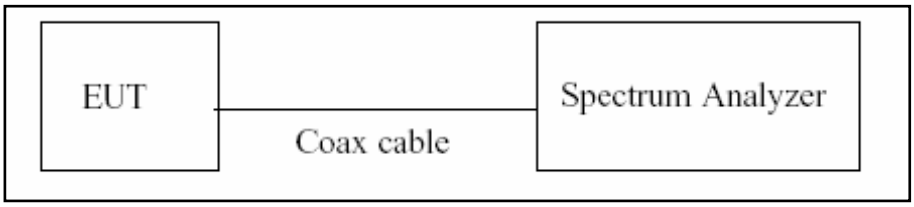
Band	Limit
UNII 1	- Master : Not exceed 1 W(=30 dBm) - Slave : Not exceed 250 mW(=23.98 dBm)
UNII 2A, 2C	Not exceed the lesser of 250 mW or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)
UNII 3	Not exceed 1 W(=30 dBm)
UNII 4	EIRP 30 dBm

Test Configuration

Power Meter



Spectrum Analyzer(Only Straddle Channel)



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.

Test Procedure(Spectrum Analyzer)

The transmitter output is connected to the Spectrum Analyzer.

We use the spectrum analyzer's integrated band power measurement function.

We tested according to Procedure E.2.d) in KDB 789033 D02 v02r01.

1. Measure the duty cycle.
2. Set span to encompass the 26 dB EBW of the signal.
3. RBW = 1 MHz.
4. VBW ≥ 3 MHz.
5. Number of points in sweep ≥ 2 x span/RBW.
6. Sweep time = auto.
7. Detector = RMS.
8. Do not use sweep triggering. Allow the sweep to "free run".
9. Trace average at least 100 traces in power averaging(RMS) mode
10. Integrated bandwidth = OBW
11. Add 10log(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 Value(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

1. Spectrum Measured Values are not plot data.
   The power results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset
   ANT1 : Attenuator loss(10 dB) + Cable loss + EUT Cable Loss
   ANT2 : 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 1	11.38	10.80
UNII 2A	11.38	10.80
UNII 2C	11.38	10.80
UNII 3&4	11.38	10.80

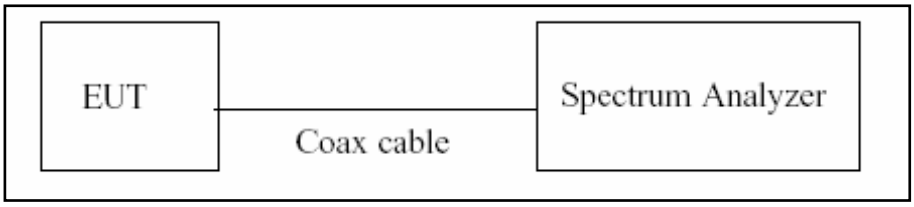
(Actual value of loss for the attenuator and cable combination)

8.4. Power Spectral Density

Limit

Band	Limit
UNII 1	11 dBm/MHz
UNII 2A, 2C	11 dBm/MHz
UNII 3	30 dBm/500 kHz
UNII 4	EIRP 14 dBm/MHz

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(510 kHz for UNII 3)
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 Value(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

1. Spectrum Measured Values 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
   ANT1 : Attenuator loss(10 dB) + Cable loss + EUT Cable Loss
   ANT2 : 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 1	11.38	10.80
UNII 2A	11.38	10.80
UNII 2C	11.38	10.80
UNII 3&4	11.38	10.80

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

8.5. AC Power line Conducted Emissions

Limit

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56[(a)]	56 to 46[(a)]
0.50 to 5	56	46
5 to 30	60	50

[(a)]Decreases with the logarithm of the frequency.

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Annex A for the actual connections between EUT and support equipment.

Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors : Quasi Peak and Average Detector.

Sample Calculation

Quasi-peak(Final Result) = Measured Value + Correction Factor

8.6. Radiated Test

Limit

1. UNII 1: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of −27 dBm/MHz.
2. UNII 2A, 2C: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.
3. UNII 3: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
4. . UNII 4: [Low Channel O.O.B.E] measured with an Peak detector

   For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of −27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

   [High Channel O.O.B.E] measured with an RMS detector

   For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of −5 dBm/MHz and shall decrease linearly to an e.i.r.p. of −27 dBm/MHz at or above 5.925 GHz.

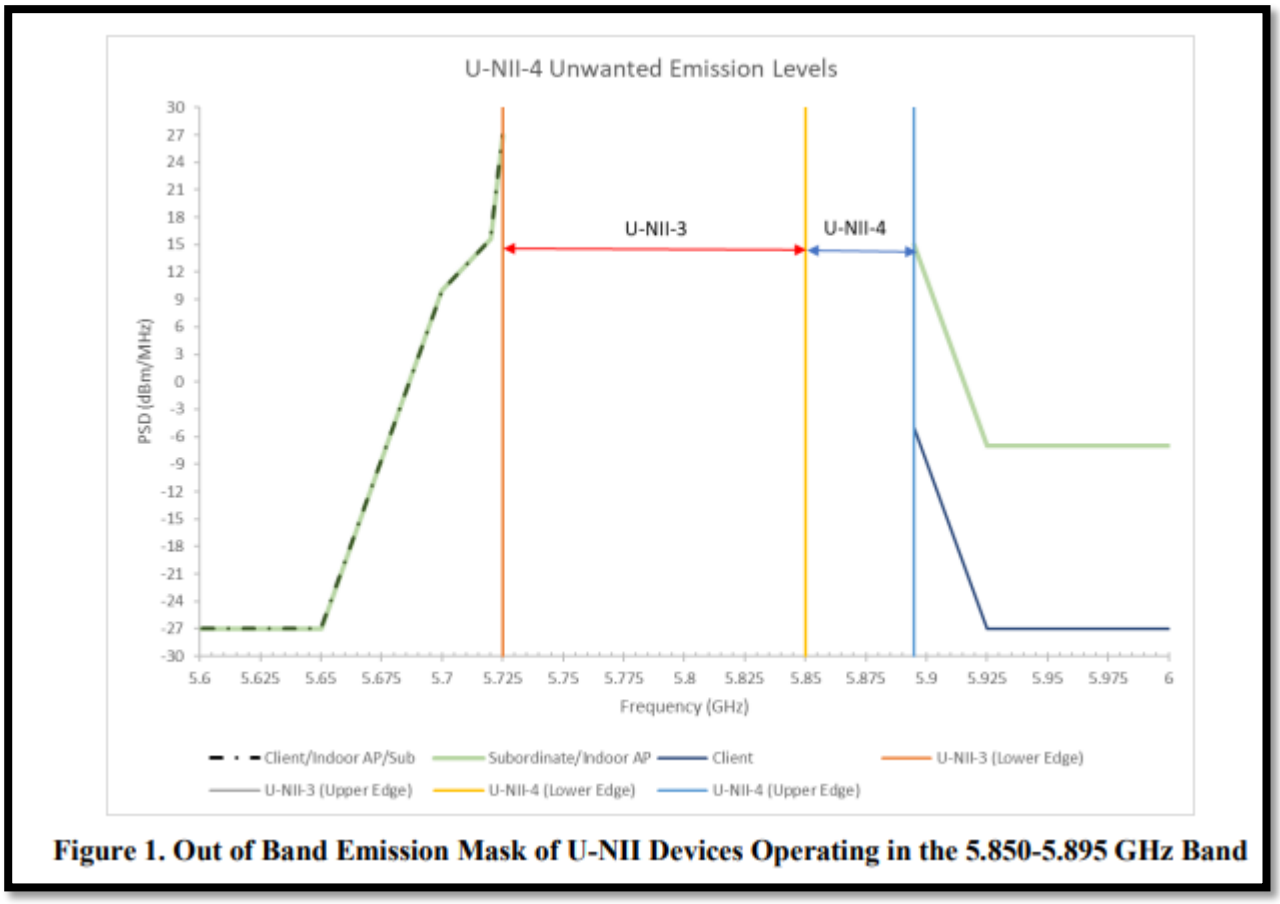


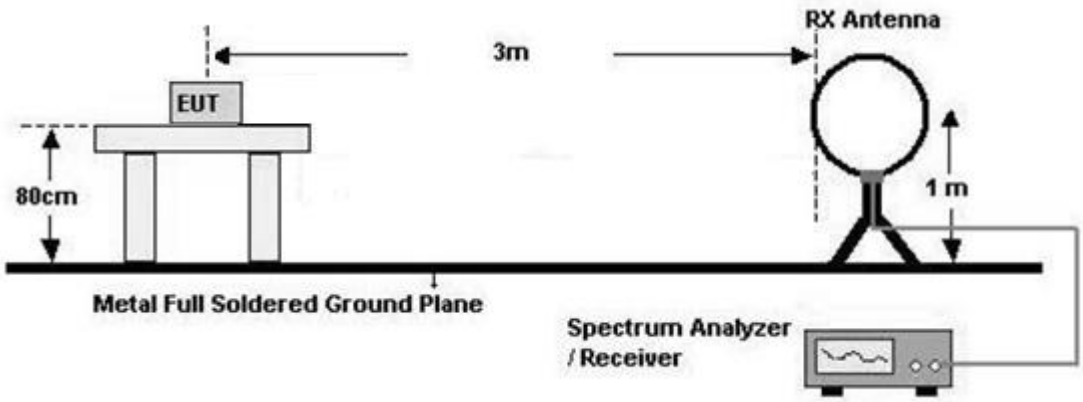
Figure 1. Out of Band Emission Mask of U-NII Devices Operating in the 5.850-5.895 GHz Band

5. 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.

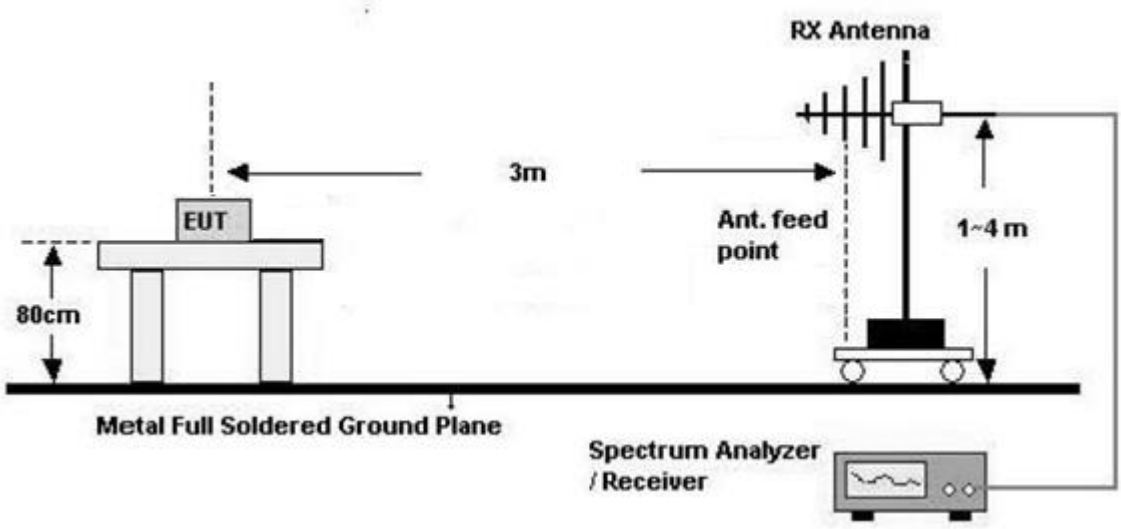
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

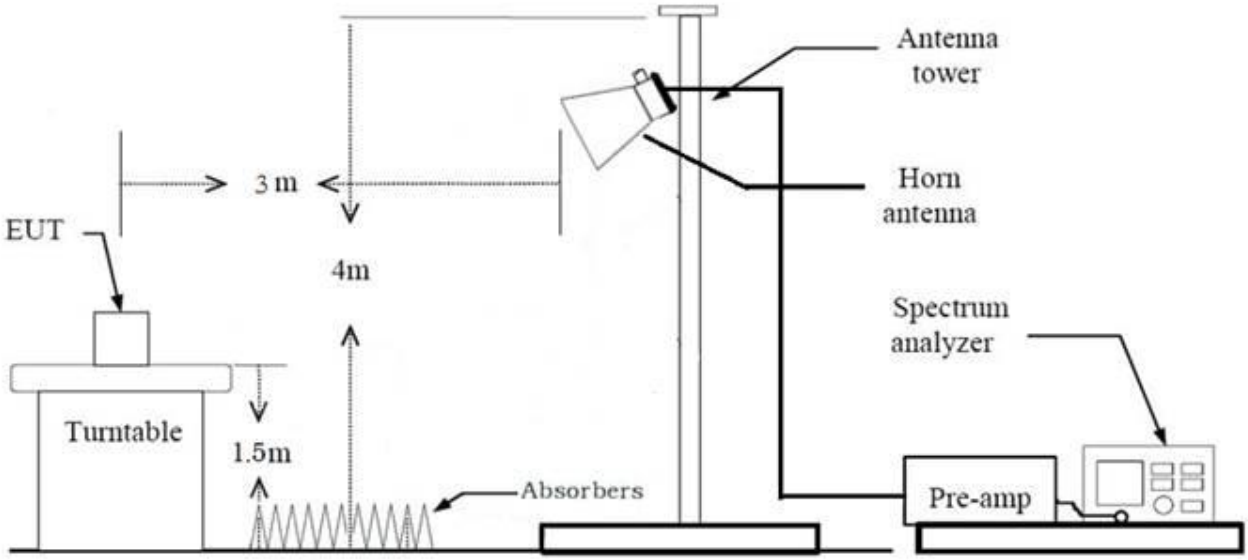
Below 30 MHz



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 Value + 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 Value + 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.d in KDB 789033 v02r01):

- RBW = 1 MHz
- VBW(Duty cycle ≥ 98 percent) = VBW ≤ RBW/100(i.e., 10 kHz) but not less than 10 Hz.
- VBW(Duty cycle is < 98 percent) = VBW ≥ 1/T, where T is the minimum transmission duration.
- The analyzer is set to linear detector mode.
- Detector = Peak.
- Sweep time = auto.
- Trace mode = Max Hold.
- Allow Max Hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle.

9. 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
10. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency
11. Distance extrapolation factor = 20log (test distance / specific distance) (dB)
12. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(A.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.d in KDB 789033 v02r01):
   - RBW = 1 MHz
   - VBW(Duty cycle ≥ 98 percent) = VBW ≤ RBW/100(i.e., 10 kHz) but not less than 10 Hz.
   - VBW(Duty cycle is < 98 percent) = VBW ≥ 1/T, where T is the minimum transmission duration.
   - The analyzer is set to linear detector mode.
   - Detector = Peak.
   - Sweep time = auto.
   - Trace mode = Max Hold.
   - Allow Max Hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle.

9. Measured Frequency Range :
   - 4 500 MHz ~ 5 150 MHz
   - 5 350 MHz ~ 5 460 MHz
   - 5 460 MHz ~ 5 470 MHz
   - (75 MHz or more below the 5 725 MHz) ~ 5 725 MHz
   - 5 850 MHz ~ (75 MHz or more above the 5 850 MHz)
10. Distance extrapolation factor = 20log (test distance / specific distance) (dB)
11. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(A.G) + Attenuator(ATT) + Distance Factor(D.F)

The actual setting value of VBW

Mode	Tone	Worst Data rate (Mbps)	Duty Cycle	Duty Cycle Factor (dB)	VBW (1/T) (kHz)	The actual setting value of VBW (Hz)
802.11ax (HE20)	26	MCS0	0.993	0.03	0.385	1000
	52	MCS0	0.994	0.03	0.385	1000
	106	MCS0	0.993	0.03	0.411	1000
	242	MCS0	0.993	0.03	0.419	1000
802.11ax (HE40)	26	MCS0	0.993	0.03	0.385	1000
	52	MCS0	0.993	0.03	0.386	1000
	106	MCS0	0.994	0.03	0.410	1000
	242	MCS0	0.994	0.03	0.419	1000
	484	MCS0	0.994	0.03	0.419	1000
802.11ax (HE80)	26	MCS0	0.993	0.03	0.385	1000
	52	MCS0	0.993	0.03	0.386	1000
	106	MCS0	0.993	0.03	0.411	1000
	242	MCS0	0.994	0.03	0.419	1000
	484	MCS0	0.994	0.03	0.419	1000
	996	MCS0	0.993	0.03	0.413	1000
802.11ax (HE160)	26	MCS0	0.993	0.03	0.385	1000
	52	MCS0	0.994	0.03	0.386	1000
	106	MCS0	0.994	0.03	0.411	1000
	242	MCS0	0.994	0.03	0.419	1000
	484	MCS0	0.994	0.03	0.419	1000
	996	MCS0	0.994	0.03	0.413	1000
802.11ax (SU)	BW 20	MCS0	0.993	0.03	0.419	1000
	BW 40	MCS0	0.994	0.03	0.419	1000
	BW 80	MCS0	0.994	0.03	0.413	1000
	BW 160	MCS0	0.997	0.01	0.184	1000

8.7. 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	-

8.8. Worst case configuration and mode

Conducted test

1. All data rate of operation were investigated and the worst case results are reported.
   - HE20, HE40, HE80, HE160 : MCS0
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 : X
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. All mode(Tone, RU Offset) of operation were investigated and the worst case configuration results are reported

TEST	TONE	RU OFFSET
RSE	[HE20] WORST CASE(Spurious emission worst) : SU	-
	[HE160] WORST CASE(Spurious emission worst) : SU	-
Band-Edge (UNII1,2A,2C)	[HE20] : 242T,SU	61
	[HE40] : 484T,SU	65
	[HE80] : 996T,SU	67
	[HE160] : 996T(80L&80U), SU	67
	[HE20] ADDITIONAL TONE : 26T, 52T,106T [HE40] ADDITIONAL TONE : 26T, 52T, 106T, 242T [HE80] ADDITIONAL TONE : 26T, 52T, 106T, 242T, 484T [HE 160] Additional Tone: 26T, 52T, 106T, 242T, 484T	[HE20] Low Edge: 0, 37, 53 High Edge: 8, 40, 54 [HE40] Low Edge: 0, 37, 53, 61 High Edge: 17, 44, 56, 62 [HE80] Low Edge: 0, 37, 53, 61, 65 High Edge: 36, 52, 60, 64, 66 [HE160] Low Edge: 0, 37, 53, 61, 65 High Edge: 36, 52, 60, 64, 66
Band-Edge (Straddle, UNII3)	[HE 20] Worst case(Highest Power) : SU	-
	[HE 40] Worst case(Highest Power) : SU	-
	[HE 80] Worst case(Highest Power) : SU	-
Band-Edge (UNII4)	[HE 20] Worst case(Highest Power) : 106T	54
	[HE 40] Worst case(Highest Power) : 26T	17
	[HE 80] Worst case(Highest Power) : 26T	36
	[HE 160] Worst case(Highest Power) : SU	-

7. SM-S911B/DS, SM-S911B were tested and the worst case results are reported.

(Worst case : SM-S911B/DS)

Radiated test(RSDB)

1. All modes of operation were investigated and the worst case configuration results are reported.
   - Mode : Stand alone, Stand alone + External accessories(Earphone, Keyboard, etc)
   - Worstcase : Stand alone
2. EUT Axis
   - Radiated Spurious Emissions : Y
3. All of RSDB Scenario were investigated and the worst case configuration results are reported.
   - Worst case : 2.4 GHz WiFi MIMO + 5 GHz WiFi MIMO

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	

4. The following tables show the worst case configurations determined during testing.
   (Worst case: The lowest margin condition the channels and modes were selected for test.)

RSDB Scenario	Description	2.4GHz Emission	5 GHz Emission
2.4 GHz WiFi MIMO + 5 GHz WiFi MIMO	Antenna	Ant All	Ant All
	Channel	1	36
	Data Rate	MCS0	MCS 0
	Mode	802.11ax(HE20) SU	802.11ax(HE20) SU

5. 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. Please refer to the SM-S911B/DS [UNII] Test Report.
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
26 dB Bandwidth	§15.407 (for Power Measurement)	N/A	Conducted	PASS
6 dB Bandwidth	§15.407(e)	>500 kHz (5725-5850 MHz)(UNII-3) (5850-5895 MHz)(UNII-4)		PASS
Maximum Conducted Output Power	§15.407(a)(1),(2),(3)	< 250 mW(5150-5250 MHz) < 250 mW or 11+10log$_{10}$ (BW) dBm (5250-5350 MHz) < 250 mW or 11+10log$_{10}$ (BW) dBm (5470-5725 MHz) <1 W (5725-5850 MHz)		PASS
Maximum EIRP Output Power	§15.407(a)(1)(3)(iii)	< EIRP 30dBm (5850-5925 MHz)		
Maximum Power Spectral Density	§15.407(a)(1),(2),(3)	<11 dBm/ MHz (5150-5250 MHz) <11 dBm/ MHz (5250-5350 MHz) <11 dBm/ MHz (5470-5725 MHz) <30 dBm/500 kHz(5725-5850 MHz) < EIRP 14 dBm/MHz(5850-5925 MHz)		PASS
AC Conducted Emissions 150 kHz-30 MHz	15.207 15.407(b)(8)	<FCC 15.207 limits		PASS
Undesirable Emissions	§15.407(b) (1),(2),(3),(4) §15.407(b)(5)(ii),(iii)	<-27 dBm/MHz EIRP (UNII1, 2A, 2C) cf. Section 8.6 (UNII 3&4)	Radiated	PASS
General Field Strength Limits(Restricted Bands and Radiated Emission Limits)	15.205, 15.407(b)(9),(10)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS

Note1:

1. Please refer to the SM-S911B/DS [UNII] Test Report.

10. TEST RESULT

10.1 DUTY CYCLE

Mode	Tone	Worst Data rate (Mbps)	T_{on} (ms)	T_{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (HE20)	26	MCS0	2.597	2.614	0.993	0.03
	52	MCS0	2.594	2.609	0.994	0.03
	106	MCS0	2.435	2.452	0.993	0.03
	242	MCS0	2.389	2.407	0.993	0.03
802.11ax (HE40)	26	MCS0	2.594	2.612	0.993	0.03
	52	MCS0	2.592	2.609	0.993	0.03
	106	MCS0	2.437	2.452	0.994	0.03
	242	MCS0	2.389	2.404	0.994	0.03
	484	MCS0	2.384	2.399	0.994	0.03
802.11ax (HE80)	26	MCS0	2.594	2.612	0.993	0.03
	52	MCS0	2.592	2.609	0.993	0.03
	106	MCS0	2.435	2.452	0.993	0.03
	242	MCS0	2.389	2.404	0.994	0.03
	484	MCS0	2.384	2.399	0.994	0.03
	996	MCS0	2.419	2.437	0.993	0.03
802.11ax (HE160)	26	MCS0	2.594	2.612	0.993	0.03
	52	MCS0	2.592	2.607	0.994	0.03
	106	MCS0	2.435	2.450	0.994	0.03
	242	MCS0	2.389	2.404	0.994	0.03
	484	MCS0	2.386	2.402	0.994	0.03
	996	MCS0	2.419	2.435	0.994	0.03
802.11ax (SU)	BW 20	MCS0	2.386	2.404	0.993	0.03
	BW 40	MCS0	2.384	2.399	0.994	0.03
	BW 80	MCS0	2.419	2.435	0.994	0.03
	BW 160	MCS0	5.447	5.462	0.997	0.01

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 Ant1

Straddle channel data in the table below are for reporting purposes only.

Straddle channel data were added in section 10.6.1.

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	20.51	20.96	21.98	-	-
			Mid	18.90	19.28	-	21.88	21.56
			High	20.88	20.73	21.41	-	-
	5200	40	Low	20.38	21.00	22.00	-	-
			Mid	18.63	19.13	-	29.96	21.86
			High	20.69	20.74	21.35	-	-
	5240	48	Low	20.63	21.12	21.89	-	-
			Mid	18.96	19.25	-	38.54	22.91
			High	20.65	21.25	21.21	-	-
UNII 2A	5260	52	Low	20.72	20.53	21.46	-	-
			Mid	18.85	19.34	-	36.52	26.59
			High	20.62	20.75	21.56	-	-
	5280	56	Low	20.41	21.12	22.34	-	-
			Mid	18.59	19.42	-	23.00	29.82
			High	20.64	20.74	21.61	-	-
	5320	64	Low	20.56	21.10	21.60	-	-
			Mid	18.94	19.30	-	22.55	31.57
			High	20.82	20.78	20.95	-	-
UNII 2C	5500	100	Low	20.50	21.00	22.00	-	-
			Mid	18.79	19.39	-	22.00	21.87
			High	20.82	21.07	21.16	-	-
	5580	116	Low	20.66	21.06	21.62	-	-
			Mid	18.80	19.52	-	22.42	21.07
			High	20.59	20.45	21.20	-	-
	5720	144	Low	20.63	20.89	21.61	-	-
			Mid	18.94	19.29	-	22.54	21.03
			High	20.73	20.56	21.05	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 3	5745	149	Low	20.75	21.04	21.76	-	-
			Mid	18.67	19.32	-	22.89	21.05
			High	20.62	20.74	21.29	-	-
	5785	157	Low	20.68	20.70	21.35	-	-
			Mid	18.86	19.50	-	22.64	20.96
			High	20.66	20.75	21.37	-	-
	5825	165	Low	20.37	21.04	21.52	-	-
			Mid	18.89	19.27	-	23.06	20.98
			High	20.69	20.61	21.27	-	-
UNII 4	5845	169	Low	20.85	21.33	21.85	-	-
			Mid	18.68	19.27	-	22.56	21.10
			High	20.89	20.64	21.28	-	-
	5865	173	Low	20.76	20.78	21.63	-	-
			Mid	18.96	19.17	-	22.96	21.23
			High	20.44	20.80	21.07	-	-
	5885	177	Low	20.58	21.21	21.45	-	-
			Mid	18.77	19.28	-	23.12	20.93
			High	20.33	20.66	21.37	-	-

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 1	5190	38	Low	40.57	41.25	41.72	42.08	-	-
			Mid	37.84	38.24	38.70	-	44.06	41.06
			High	40.44	41.04	41.80	41.08	-	-
	5230	46	Low	40.73	40.76	41.48	43.69	-	-
			Mid	38.11	38.33	39.34	-	48.47	40.70
			High	40.37	40.76	41.04	42.14	-	-
UNII 2A	5270	54	Low	40.26	41.18	41.63	38.29	-	-
			Mid	38.13	38.12	39.47	-	45.77	40.93
			High	40.43	41.35	41.88	41.22	-	-
	5310	62	Low	40.38	40.90	41.86	40.76	-	-
			Mid	38.22	38.37	39.85	-	44.26	41.04
			High	40.34	41.34	42.09	41.51	-	-
UNII 2C	5510	102	Low	40.60	41.07	41.90	44.66	-	-
			Mid	38.28	38.21	39.69	-	44.08	40.77
			High	40.83	40.89	41.47	44.90	-	-
	5550	110	Low	40.51	40.94	41.52	42.46	-	-
			Mid	38.16	38.46	39.35	-	45.09	40.70
			High	40.43	40.82	41.78	42.20	-	-
	5710	142	Low	40.33	41.08	41.54	42.18	-	-
			Mid	38.11	38.23	39.37	-	44.76	40.74
			High	40.85	40.73	41.69	41.93	-	-
UNII 3	5755	151	Low	40.57	40.88	41.41	42.18	-	-
			Mid	38.15	38.47	39.33	-	45.13	40.87
			High	40.19	41.00	41.50	42.24	-	-
	5795	159	Low	40.35	40.79	41.68	43.38	-	-
			Mid	38.11	38.23	39.22	-	45.25	40.76
			High	40.54	40.95	41.62	41.90	-	-
UNII 4	5835	167	Low	40.33	40.92	41.46	42.05	-	-
			Mid	38.16	38.35	39.08	-	44.60	40.72
			High	40.48	40.75	41.46	42.26	-	-
	5875	175	Low	40.44	40.80	41.43	42.36	-	-
			Mid	38.11	38.41	39.34	-	45.40	41.01
			High	40.41	40.66	41.73	42.41	-	-

802.11ax(HE80)

HE80	Freq. [MHz]	Channel No.	RU Index	26 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	81.60	83.24	83.87	83.31	86.41	-	-
			Mid	78.07	78.58	79.18	80.46	-	94.87	82.47
			High	81.55	83.45	83.32	82.32	85.36	-	-
UNII 2A	5290	58	Low	82.09	82.99	83.42	83.95	97.38	-	-
			Mid	78.33	78.94	79.66	81.29	-	120.7	82.28
			High	82.16	82.88	83.07	84.13	117.51	-	-
UNII 2C	5530	106	Low	81.71	83.27	83.90	84.02	86.98	-	-
			Mid	78.36	78.80	79.49	80.62	-	88.56	82.81
			High	80.89	82.71	83.31	82.51	84.41	-	-
	5610	122	Low	82.04	83.94	83.26	83.65	86.57	-	-
			Mid	78.39	78.72	79.76	80.54	-	89.37	82.51
			High	81.02	82.88	82.77	82.91	84.13	-	-
	5690	138	Low	81.85	83.73	83.99	84.17	86.01	-	-
			Mid	78.39	78.55	79.57	79.86	-	88.30	82.59
			High	81.38	82.98	83.09	82.69	83.81	-	-
UNII 3	5775	155	Low	81.80	83.56	83.87	83.42	86.65	-	-
			Mid	78.32	78.47	79.82	80.14	-	89.21	81.87
			High	81.17	82.70	82.89	82.68	84.76	-	-
UNII 4	5855	171	Low	81.77	83.11	84.27	83.54	86.53	-	-
			Mid	78.36	78.60	79.51	80.43	-	88.63	82.12
			High	81.86	83.94	82.74	82.38	84.06	-	-

802.11ax(HE160)

HE160_80L	Frequency [MHz]	Channel No.	RU Index	26dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1&2A	5250	50	Low	163.1	165.3	166.3	171.0	174.1	-	163.1
			Mid	157.8	158.2	158.9	160.6	-	168.5	157.8
			High	158.0	158.3	159.0	160.0	162.0	-	158.0
UNII 2A-2C	5570	114	Low	163.5	165.0	164.9	165.3	166.1	-	163.5
			Mid	158.0	158.5	159.2	160.4	-	169.7	158.0
			High	158.0	158.4	159.0	160.2	162.5	-	158.0
UNII 3&4	5815	163	Low	163.5	164.6	165.1	164.7	168.1	-	163.5
			Mid	158.1	158.4	158.6	160.1	-	169.7	158.1
			High	156.8	158.5	159.8	160.2	161.6	-	156.8

HE160_80U	Frequency [MHz]	Channel No.	RU Index	26dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1&2A	5250	50	Low	158.1	158.6	159.5	160.1	162.6	-	158.1
			Mid	158.1	158.6	159.8	160.6	-	168.3	158.1
			High	162.2	163.4	170.0	174.2	181.0	-	162.2
UNII 2A-2C	5570	114	Low	158.2	158.4	159.1	160.4	161.7	-	158.2
			Mid	158.3	158.5	159.7	160.6	-	167.6	158.3
			High	163.0	164.1	164.0	164.5	165.6	-	163.0
UNII 3&4	5815	163	Low	158.4	158.4	159.4	160.1	162.5	-	158.4
			Mid	158.2	158.0	159.5	159.8	-	165.3	158.2
			High	163.4	164.2	164.7	165.1	167.1	-	163.4

HE160_SU	Frequency [MHz]	Channel No.	26dB BW (MHz)
			SU
UNII 1&2A	5250	50	164.7
UNII 2A-2C	5570	114	164.7
UNII 3&4	5815	163	164.7

99% BANDWIDTH

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	18.543	18.361	18.401	-	-
			Mid	17.275	17.321	-	19.066	18.999
			High	18.735	18.248	18.375	-	-
	5200	40	Low	18.516	18.169	18.405	-	-
			Mid	17.161	17.365	-	19.160	18.979
			High	18.739	18.300	18.443	-	-
	5240	48	Low	18.491	18.402	18.339	-	-
			Mid	17.335	17.272	-	19.242	18.991
			High	18.719	18.274	18.417	-	-
UNII 2A	5260	52	Low	18.601	18.374	18.416	-	-
			Mid	17.292	17.076	-	19.275	19.032
			High	18.722	18.137	18.413	-	-
	5280	56	Low	18.585	18.129	18.373	-	-
			Mid	17.256	17.272	-	19.078	19.074
			High	18.659	18.236	18.452	-	-
	5320	64	Low	18.573	18.400	18.384	-	-
			Mid	17.273	17.297	-	19.041	19.068
			High	18.635	18.311	18.394	-	-
UNII 2C	5500	100	Low	18.625	18.380	18.332	-	-
			Mid	17.332	17.310	-	19.067	18.962
			High	18.728	18.318	18.333	-	-
	5580	116	Low	18.595	18.399	18.352	-	-
			Mid	17.250	17.314	-	19.106	18.952
			High	18.616	18.167	18.414	-	-
	5720	144	Low	18.534	18.283	18.425	-	-
			Mid	17.328	17.321	-	19.103	18.912
			High	18.693	18.335	18.401	-	-
UNII 3	5745	149	Low	18.573	18.200	18.381	-	-
			Mid	17.255	17.276	-	19.105	18.932
			High	18.438	18.119	18.403	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)				
				26 T	52 T	106 T	242 T	SU
	5785	157	Low	18.591	18.341	18.255	-	-
			Mid	17.329	17.214	-	19.122	18.926
			High	18.675	18.342	18.387	-	-
	5825	165	Low	18.611	18.196	18.358	-	-
			Mid	17.275	17.106	-	19.125	18.920
			High	18.585	18.264	18.390	-	-
UNII 4	5845	169	Low	18.481	18.304	18.448	-	-
			Mid	17.276	17.314	-	19.121	18.924
			High	18.574	18.121	18.398	-	-
	5865	173	Low	18.583	18.296	18.316	-	-
			Mid	17.224	17.331	-	19.123	18.899
			High	18.527	18.348	18.403	-	-
	5885	177	Low	18.571	18.291	18.378	-	-
			Mid	17.352	17.176	-	19.126	18.911
			High	18.625	18.300	18.376	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	38.269	37.785	37.500	37.352	-	-
			Mid	36.233	36.309	36.609	-	38.048	37.744
			High	38.314	37.813	37.722	35.414	-	-
	5230	46	Low	38.040	37.860	37.383	37.472	-	-
			Mid	36.147	36.458	36.387	-	38.178	37.741
			High	38.257	37.849	37.622	37.359	-	-
UNII 2A	5270	54	Low	38.075	37.949	37.509	34.814	-	-
			Mid	36.364	36.338	36.077	-	38.050	37.718
			High	38.195	37.945	37.698	37.609	-	-
	5310	62	Low	38.006	37.608	37.584	37.267	-	-
			Mid	36.394	36.187	36.438	-	38.016	37.755
			High	38.077	37.965	37.648	37.391	-	-
UNII 2C	5510	102	Low	38.035	37.862	37.403	37.589	-	-
			Mid	36.489	36.416	36.389	-	38.064	37.737
			High	38.278	37.887	37.691	37.664	-	-
	5550	110	Low	38.196	37.797	37.396	37.396	-	-
			Mid	36.289	36.485	36.396	-	38.077	37.721
			High	38.159	37.759	37.578	37.322	-	-
	5710	142	Low	37.952	37.802	37.324	37.420	-	-
			Mid	36.143	36.337	36.210	-	38.086	37.765
			High	38.259	37.749	37.814	37.378	-	-
UNII 3	5755	151	Low	38.168	37.721	37.532	37.532	-	-
			Mid	36.398	36.430	36.449	-	38.105	37.726
			High	37.920	37.743	37.621	37.561	-	-
	5795	159	Low	38.200	37.860	37.518	37.434	-	-
			Mid	36.298	36.450	36.481	-	38.106	37.753
			High	38.272	37.815	37.528	37.441	-	-
UNII 4	5835	167	Low	38.118	37.743	37.608	37.461	-	-
			Mid	36.265	36.140	36.387	-	38.079	37.716
			High	38.171	37.882	37.557	37.435	-	-
	5875	175	Low	38.010	37.930	37.455	37.497	-	-
			Mid	36.315	36.271	36.522	-	38.100	37.742
			High	38.147	37.709	37.678	37.432	-	-

802.11ax(HE80)

HE80	Freq. [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	78.081	78.221	77.699	77.287	77.134	-	-
			Mid	74.965	74.918	75.501	75.434	-	77.924	77.246
			High	78.721	78.178	77.676	77.226	76.983	-	-
UNII 2A	5290	58	Low	78.993	78.149	77.671	77.551	77.349	-	-
			Mid	75.160	75.301	75.347	75.670	-	78.132	77.416
			High	78.756	78.090	77.641	77.426	77.178	-	-
UNII 2C	5530	106	Low	78.747	78.482	77.472	77.080	77.251	-	-
			Mid	75.363	74.776	75.213	75.398	-	77.894	77.185
			High	78.456	78.056	77.624	77.023	76.888	-	-
	5610	122	Low	78.874	78.457	77.418	77.116	76.893	-	-
			Mid	75.209	74.863	75.094	74.831	-	77.748	77.195
			High	78.713	78.138	77.524	76.816	76.748	-	-
	5690	138	Low	78.640	78.347	77.682	77.313	77.081	-	-
			Mid	75.138	74.960	75.204	74.975	-	77.789	77.204
			High	78.634	78.033	77.234	76.785	76.787	-	-
UNII 3	5775	155	Low	78.662	78.134	77.638	77.377	77.138	-	-
			Mid	75.123	75.056	75.349	75.151	-	77.820	77.200
			High	78.908	78.111	77.387	77.026	76.774	-	-
UNII 4	5855	171	Low	78.570	78.413	77.970	77.310	77.128	-	-
			Mid	75.269	74.747	75.204	75.235	-	77.723	77.165
			High	78.623	78.291	77.080	76.819	76.360	-	-

802.11ax(HE160)

HE160_80L	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1&2A	5250	50	Low	157.78	158.40	157.94	157.15	155.82	-	-
			Mid	151.73	152.43	152.75	153.60	-	156.41	-
			High	152.56	152.47	152.81	152.02	153.16	-	-
UNII 2A-2C	5570	114	Low	158.35	158.01	157.05	156.64	155.76	-	-
			Mid	152.33	152.91	151.67	153.16	-	156.15	-
			High	152.68	152.24	153.05	153.55	152.43	-	-
UNII 3&4	5815	163	Low	158.18	157.65	157.13	156.27	156.15	-	-
			Mid	151.78	152.30	152.28	152.91	-	155.10	-
			High	152.29	152.05	153.20	152.99	152.96	-	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1&2A	5250	50	Low	152.88	153.21	153.22	152.85	153.54	-	-
			Mid	152.33	153.05	153.52	153.36	-	156.10	-
			High	158.49	158.08	160.57	158.90	156.72	-	-
UNII 2A-2C	5570	114	Low	153.64	152.40	153.47	153.36	153.39	-	-
			Mid	152.78	152.50	153.54	153.24	-	155.42	-
			High	159.08	158.33	157.26	156.51	155.74	-	-
UNII 3&4	5815	163	Low	152.58	152.67	152.99	152.95	152.87	-	-
			Mid	152.13	152.71	152.73	152.55	-	155.35	-
			High	159.35	158.00	157.20	156.43	155.82	-	-

HE160_SU	Frequency [MHz]	Channel No.	99% BANDWIDTH (MHz)
			SU
UNII 1&2A	5250	50	156.19
UNII 2A-2C	5570	114	156.53
UNII 3&4	5815	163	156.06

10.2.2 Ant2

Straddle channel data in the table below are for reporting purposes only.

Straddle channel data were added in section 10.6.1.

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	20.16	20.99	21.81	-	-
			Mid	18.90	19.30	-	22.44	21.03
			High	20.61	20.53	21.23	-	-
	5200	40	Low	20.34	20.97	21.68	-	-
			Mid	18.11	19.10	-	22.77	20.96
			High	20.51	20.75	21.12	-	-
	5240	48	Low	20.74	21.25	21.63	-	-
			Mid	18.73	19.04	-	22.56	20.92
			High	20.72	20.57	21.12	-	-
UNII 2A	5260	52	Low	20.69	21.07	21.51	-	-
			Mid	18.60	18.87	-	22.43	21.22
			High	21.01	20.62	21.04	-	-
	5280	56	Low	20.53	20.97	21.75	-	-
			Mid	18.29	19.30	-	22.49	20.87
			High	20.42	20.41	21.00	-	-
	5320	64	Low	20.61	21.35	21.65	-	-
			Mid	18.62	19.44	-	22.34	21.10
			High	20.82	20.61	21.09	-	-
UNII 2C	5500	100	Low	20.67	21.15	21.52	-	-
			Mid	18.86	19.47	-	22.55	21.10
			High	20.59	20.99	21.18	-	-
	5580	116	Low	20.52	21.00	21.66	-	-
			Mid	18.90	19.50	-	22.48	21.05
			High	20.71	20.48	21.17	-	-
	5720	144	Low	20.55	20.97	21.77	-	-
			Mid	18.57	19.02	-	22.39	20.96
			High	20.68	20.74	21.03	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 3	5745	149	Low	20.50	21.24	21.98	-	-
			Mid	18.68	19.56	-	22.52	21.05
			High	20.80	20.16	21.06	-	-
	5785	157	Low	20.70	21.25	21.52	-	-
			Mid	18.95	19.25	-	22.51	21.00
			High	20.63	20.07	21.13	-	-
	5825	165	Low	20.19	21.23	21.55	-	-
			Mid	18.67	19.16	-	22.55	20.98
			High	20.84	20.75	21.34	-	-
UNII 4	5845	169	Low	20.76	21.03	21.63	-	-
			Mid	18.61	19.29	-	22.61	21.03
			High	20.47	20.79	21.29	-	-
	5865	173	Low	20.18	21.21	21.46	-	-
			Mid	18.62	19.19	-	22.55	21.24
			High	20.49	20.30	21.27	-	-
	5885	177	Low	20.60	20.62	21.61	-	-
			Mid	18.23	19.06	-	22.55	21.43
			High	20.61	20.76	21.40	-	-

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 1	5190	38	Low	40.73	41.03	41.07	42.19	-	-
			Mid	38.20	38.17	39.52	-	45.32	40.59
			High	40.49	40.91	41.57	41.82	-	-
	5230	46	Low	40.38	40.73	41.40	42.37	-	-
			Mid	38.06	38.39	39.41	-	45.10	40.71
			High	40.40	40.64	41.27	41.83	-	-
UNII 2A	5270	54	Low	40.52	40.92	41.35	42.29	-	-
			Mid	38.04	38.45	39.27	-	45.31	40.74
			High	40.11	40.72	41.46	41.72	-	-
	5310	62	Low	40.62	41.08	41.44	42.32	-	-
			Mid	38.23	38.20	39.28	-	45.35	40.84
			High	40.42	40.67	41.79	41.87	-	-
UNII 2C	5510	102	Low	40.45	40.95	41.28	42.12	-	-
			Mid	38.17	38.31	39.48	-	45.42	40.66
			High	40.53	40.73	41.76	42.03	-	-
	5550	110	Low	40.47	40.80	41.43	42.37	-	-
			Mid	38.25	38.42	39.32	-	45.39	40.96
			High	40.61	40.97	41.51	41.96	-	-
	5710	142	Low	40.38	41.03	41.66	42.17	-	-
			Mid	38.24	38.30	39.19	-	45.10	40.91
			High	40.49	41.82	41.55	41.88	-	-
UNII 3	5755	151	Low	40.44	40.74	41.22	43.01	-	-
			Mid	38.17	38.39	39.30	-	45.36	40.84
			High	40.24	40.82	41.91	41.44	-	-
	5795	159	Low	40.45	40.64	41.59	43.01	-	-
			Mid	38.12	38.39	39.17	-	44.65	40.46
			High	40.26	40.97	41.94	41.76	-	-
UNII 4	5835	167	Low	40.44	41.11	41.44	43.03	-	-
			Mid	38.10	38.45	39.54	-	45.45	40.70
			High	40.37	41.30	41.43	41.73	-	-
	5875	175	Low	40.34	41.00	41.22	42.52	-	-
			Mid	38.29	38.23	39.33	-	45.48	40.72
			High	40.52	41.25	41.54	41.81	-	-

802.11ax(HE80)

HE80	Freq. [MHz]	Channel No.	RU Index	26 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	82.21	83.78	84.38	83.69	87.26	-	-
			Mid	78.41	78.55	80.02	80.22	-	88.21	81.93
			High	82.40	83.25	82.70	82.33	85.86	-	-
UNII 2A	5290	58	Low	82.30	83.79	84.39	83.80	87.47	-	-
			Mid	78.25	78.47	79.41	80.90	-	88.28	82.11
			High	81.55	82.75	83.89	82.36	83.93	-	-
UNII 2C	5530	106	Low	81.57	83.76	84.54	84.06	86.41	-	-
			Mid	78.23	78.40	79.67	80.31	-	88.54	82.26
			High	81.11	82.70	83.20	83.08	85.37	-	-
	5610	122	Low	82.13	83.43	84.44	83.30	86.12	-	-
			Mid	77.64	78.65	79.35	80.64	-	88.13	82.02
			High	81.05	83.29	83.31	82.02	85.25	-	-
	5690	138	Low	81.63	82.49	84.25	84.18	87.54	-	-
			Mid	78.26	77.85	79.47	80.60	-	87.52	82.63
			High	81.02	83.19	82.72	83.33	85.71	-	-
UNII 3	5775	155	Low	82.15	82.88	84.47	84.92	87.67	-	-
			Mid	78.53	78.48	79.31	80.00	-	87.78	82.61
			High	82.35	83.63	82.72	83.65	85.03	-	-
UNII 4	5855	171	Low	81.62	83.76	84.15	83.38	87.28	-	-
			Mid	78.13	78.58	79.74	80.80	-	88.29	82.53
			High	82.00	83.56	82.75	83.52	85.76	-	-

802.11ax(HE160)

HE160_80L	Frequency [MHz]	Channel No.	RU Index	26dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1&2A	5250	50	Low	162.9	164.2	164.8	165.2	169.5	-	-
			Mid	157.9	158.0	159.4	159.7	-	169.7	-
			High	157.2	158.0	159.1	159.7	162.5	-	-
UNII 2A-2C	5570	114	Low	163.4	165.7	166.4	166.8	169.3	-	-
			Mid	158.2	158.4	159.3	160.4	-	167.5	-
			High	157.0	158.4	159.8	159.7	162.4	-	-
UNII 3&4	5815	163	Low	164.0	164.4	165.2	168.8	169.1	-	-
			Mid	157.4	158.7	159.2	159.1	-	168.2	-
			High	157.5	158.0	159.5	160.3	162.4	-	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	26dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1&2A	5250	50	Low	157.9	158.2	159.0	160.6	161.4	-	-
			Mid	157.8	158.1	159.0	160.1	-	166.1	-
			High	163.1	163.3	164.2	166.2	165.8	-	-
UNII 2A-2C	5570	114	Low	158.3	158.7	159.5	160.2	162.1	-	-
			Mid	158.4	158.1	159.2	160.1	-	166.7	-
			High	161.1	163.9	164.8	165.2	166.0	-	-
UNII 3&4	5815	163	Low	158.1	158.4	159.1	160.3	163.1	-	-
			Mid	158.2	158.2	159.4	159.6	-	166.5	-
			High	163.7	164.5	164.5	174.2	166.1	-	-

HE160_SU	Frequency [MHz]	Channel No.	26dB BW (MHz)
			SU
UNII 1&2A	5250	50	164.8
UNII 2A-2C	5570	114	165.8
UNII 3&4	5815	163	164.5

99% BANDWIDTH

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	18.528	18.152	18.361	-	-
			Mid	17.076	17.229	-	19.095	18.930
			High	18.750	18.170	18.294	-	-
	5200	40	Low	18.549	18.347	18.424	-	-
			Mid	17.304	17.276	-	19.103	18.923
			High	18.479	18.336	18.164	-	-
	5240	48	Low	18.666	18.492	18.344	-	-
			Mid	17.350	17.262	-	19.094	18.918
			High	18.697	18.261	18.378	-	-
UNII 2A	5260	52	Low	18.618	18.351	18.407	-	-
			Mid	17.321	17.286	-	19.094	18.923
			High	18.488	18.201	18.365	-	-
	5280	56	Low	18.488	18.348	18.436	-	-
			Mid	17.344	17.031	-	19.081	18.930
			High	18.618	18.084	18.417	-	-
	5320	64	Low	17.529	18.410	18.121	-	-
			Mid	17.361	17.224	-	19.108	18.916
			High	18.743	18.304	18.380	-	-
UNII 2C	5500	100	Low	18.630	18.397	18.262	-	-
			Mid	17.236	17.191	-	19.090	18.919
			High	18.630	18.406	18.357	-	-
	5580	116	Low	18.536	18.387	18.407	-	-
			Mid	17.296	17.275	-	19.091	18.937
			High	18.681	18.206	18.290	-	-
	5720	144	Low	18.432	18.367	18.338	-	-
			Mid	17.295	17.242	-	19.083	18.957
			High	18.654	18.156	18.407	-	-
UNII 3	5745	149	Low	18.503	18.350	18.372	-	-
			Mid	17.278	17.266	-	19.100	18.942
			High	18.630	18.253	17.937	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)				
				26 T	52 T	106 T	242 T	SU
	5785	157	Low	18.623	18.385	18.256	-	-
			Mid	17.158	17.254	-	19.113	18.941
			High	18.609	18.206	18.312	-	-
	5825	165	Low	18.609	18.396	18.392	-	-
			Mid	17.367	17.248	-	19.116	18.951
			High	18.626	18.341	18.383	-	-
UNII 4	5845	169	Low	18.421	18.420	18.364	-	-
			Mid	17.305	17.190	-	19.111	18.940
			High	18.598	18.135	18.416	-	-
	5865	173	Low	18.568	18.302	18.441	-	-
			Mid	17.357	17.136	-	19.114	18.925
			High	18.518	18.299	18.290	-	-
	5885	177	Low	18.585	18.358	18.340	-	-
			Mid	17.085	17.147	-	19.129	18.919
			High	18.696	18.346	18.388	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	38.374	37.924	37.330	37.413	-	-
			Mid	36.320	36.331	36.407	-	38.097	37.712
			High	38.104	37.822	37.635	37.516	-	-
	5230	46	Low	38.227	37.916	37.502	37.480	-	-
			Mid	36.451	36.303	36.611	-	38.052	37.727
			High	38.123	37.792	37.509	37.502	-	-
UNII 2A	5270	54	Low	38.270	37.886	37.418	37.303	-	-
			Mid	36.095	36.299	36.375	-	38.087	37.717
			High	38.214	37.814	37.618	37.313	-	-
	5310	62	Low	38.224	37.810	37.527	37.332	-	-
			Mid	36.429	36.243	36.349	-	38.093	37.745
			High	38.177	37.816	37.648	37.297	-	-
UNII 2C	5510	102	Low	38.183	37.893	37.326	37.493	-	-
			Mid	36.278	36.064	36.481	-	38.066	37.755
			High	38.008	37.801	37.331	37.301	-	-
	5550	110	Low	38.237	37.675	37.569	37.464	-	-
			Mid	36.395	36.383	36.570	-	38.055	37.739
			High	38.190	37.785	37.303	37.420	-	-
	5710	142	Low	38.189	37.805	37.591	37.473	-	-
			Mid	36.401	36.198	36.157	-	38.089	37.744
			High	38.158	37.935	37.422	37.514	-	-
UNII 3	5755	151	Low	38.096	37.810	37.507	36.348	-	-
			Mid	36.315	36.429	36.462	-	38.080	37.751
			High	38.077	37.725	37.584	37.477	-	-
	5795	159	Low	38.171	37.543	37.619	37.484	-	-
			Mid	36.360	36.467	36.397	-	38.093	37.696
			High	38.122	37.880	37.689	37.188	-	-
UNII 4	5835	167	Low	38.316	37.811	37.314	37.523	-	-
			Mid	36.468	36.378	36.451	-	38.115	37.728
			High	38.194	37.824	37.645	37.452	-	-
	5875	175	Low	38.164	37.762	37.335	37.400	-	-
			Mid	36.368	36.304	36.435	-	38.133	37.740
			High	38.151	38.004	37.499	37.549	-	-

802.11ax(HE80)

HE80	Freq. [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	78.854	78.240	77.690	77.247	76.991	-	-
			Mid	75.398	74.937	75.269	75.298	-	77.813	77.227
			High	79.101	77.998	77.283	76.742	76.724	-	-
UNII 2A	5290	58	Low	79.080	78.677	77.796	77.079	77.028	-	-
			Mid	75.055	74.842	75.128	75.307	-	77.833	77.166
			High	78.481	78.040	77.437	76.843	76.707	-	-
UNII 2C	5530	106	Low	78.856	78.513	77.705	77.224	76.957	-	-
			Mid	75.18	74.85	75.138	75.294	-	77.744	77.343
			High	78.574	78.041	77.407	76.794	76.661	-	-
	5610	122	Low	78.999	78.599	77.764	77.274	77.003	-	-
			Mid	74.627	75.097	75.087	74.923	-	77.781	77.153
			High	78.319	78.100	77.512	76.597	76.640	-	-
	5690	138	Low	78.636	77.683	77.765	77.446	77.075	-	-
			Mid	75.395	74.366	74.801	74.935	-	77.785	77.215
			High	78.049	78.373	77.169	76.645	76.738	-	-
UNII 3	5775	155	Low	78.868	78.369	77.773	76.672	77.119	-	-
			Mid	75.382	75.021	74.917	75.242	-	77.790	77.074
			High	78.866	78.088	77.358	76.639	76.808	-	-
UNII 4	5855	171	Low	78.760	78.239	77.776	77.294	77.047	-	-
			Mid	75.127	74.958	75.178	75.185	-	77.748	77.261
			High	78.466	78.109	77.199	76.837	76.750	-	-

802.11ax(HE160)

HE160_80L	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1&2A	5250	50	Low	158.15	158.00	157.89	157.30	156.30	-	-
			Mid	153.00	151.90	153.04	152.97	-	155.48	-
			High	151.72	151.58	152.23	152.26	152.84	-	-
UNII 2A-2C	5570	114	Low	158.87	158.67	157.97	157.36	156.51	-	-
			Mid	153.62	152.02	153.42	153.67	-	155.94	-
			High	151.75	152.76	153.28	152.58	153.15	-	-
UNII 3&4	5815	163	Low	158.80	158.73	157.45	157.74	156.12	-	-
			Mid	152.48	152.28	152.99	152.72	-	155.93	-
			High	152.57	151.69	152.57	153.17	153.40	-	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1&2A	5250	50	Low	152.16	152.01	152.95	153.09	152.69	-	-
			Mid	151.85	151.57	152.38	152.64	-	154.96	-
			High	158.14	157.13	156.57	156.07	155.24	-	-
UNII 2A-2C	5570	114	Low	153.36	152.46	152.18	153.01	152.94	-	-
			Mid	153.22	151.35	152.59	153.07	-	155.55	-
			High	157.61	156.64	156.53	155.84	154.92	-	-
UNII 3&4	5815	163	Low	152.34	151.92	152.56	153.51	154.04	-	-
			Mid	151.87	151.22	152.33	153.20	-	155.28	-
			High	158.77	157.46	156.16	159.70	155.83	-	-

HE160_SU	Frequency [MHz]	Channel No.	99% BANDWIDTH (MHz)
			SU
UNII 1&2A	5250	50	155.86
UNII 2A-2C	5570	114	156.31
UNII 3&4	5815	163	156.06

10.3 6 dB BANDWIDTH

10.3.1 Ant1

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	6 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 3	5745	149	Low	2.132	17.11	17.17	-	-
			Mid	2.713	15.06	-	19.09	18.96
			High	2.097	17.05	17.15	-	-
	5785	157	Low	2.140	17.10	17.18	-	-
			Mid	2.672	15.10	-	19.12	19.02
			High	2.122	17.02	17.13	-	-
	5825	165	Low	2.160	17.09	18.13	-	-
			Mid	2.730	15.12	-	19.11	19.02
			High	2.136	17.02	17.17	-	-
UNII 4	5845	169	Low	2.172	17.07	18.14	-	-
			Mid	2.709	15.12	-	19.12	18.99
			High	2.113	17.04	17.16	-	-
	5865	173	Low	2.184	17.12	17.15	-	-
			Mid	2.712	15.11	-	19.12	18.98
			High	2.126	17.05	15.91	-	-
	5885	177	Low	2.124	17.12	17.13	-	-
			Mid	2.687	15.11	-	19.11	18.95
			High	2.146	17.01	17.17	-	-

Limit : > 0.5 MHz

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	6 dB BW(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 3	5755	151	Low	2.135	4.210	36.64	36.75	-	-
			Mid	2.189	4.157	35.00	-	38.19	38.10
			High	2.144	4.167	36.61	36.75	-	-
	5795	159	Low	2.150	4.214	36.64	37.69	-	-
			Mid	2.095	4.155	35.13	-	38.31	38.07
			High	2.155	4.197	35.37	36.74	-	-
UNII 4	5835	167	Low	2.131	4.192	35.37	37.72	-	-
			Mid	2.159	4.143	33.83	-	38.33	38.02
			High	2.162	4.198	36.59	36.75	-	-
	5875	175	Low	2.136	4.160	36.65	37.71	-	-
			Mid	2.162	4.133	35.12	-	38.28	38.09
			High	2.165	4.127	36.56	36.75	-	-

Limit : > 0.5 MHz

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	6 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 3	5775	155	Low	2.247	4.303	8.437	76.71	77.82	-	-
			Mid	2.844	4.316	8.447	75.11	-	78.23	78.02
			High	2.258	4.231	8.469	76.73	76.97	-	-
UNII 4	5855	171	Low	2.265	4.320	8.421	76.81	76.92	-	-
			Mid	2.848	4.286	8.412	73.83	-	78.26	78.12
			High	2.255	4.276	8.410	76.78	76.77	-	-

Limit : > 0.5 MHz

802.11ax(HE160)

HE160_80L	Frequency [MHz]	Channel No.	RU Index	6dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 3&4	5815	163	Low	2.406	4.602	8.733	19.24	157.72	-	-
			Mid	3.007	4.540	8.635	19.29	-	156.84	-
			High	2.426	4.554	8.725	19.27	153.88	-	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	6dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 3&4	5815	163	Low	2.435	4.540	8.707	19.24	122.42	-	-
			Mid	3.035	4.530	8.614	19.25	-	152.46	-
			High	2.436	4.548	8.688	19.29	55.59	-	-

HE160_SU	Frequency [MHz]	Channel No.	6dB BW (MHz)
			SU
UNII 3&4	5815	163	158.00

10.3.2 Ant2

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	6 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 3	5745	149	Low	2.133	17.10	17.17	-	-
			Mid	2.679	15.08	-	19.12	18.99
			High	2.130	17.00	17.17	-	-
	5785	157	Low	2.118	17.06	17.15	-	-
			Mid	2.665	13.87	-	19.11	18.99
			High	2.111	17.00	17.18	-	-
	5825	165	Low	2.168	17.03	17.16	-	-
			Mid	2.759	15.07	-	19.12	19.00
			High	2.143	17.01	17.17	-	-
UNII 4	5845	169	Low	2.115	17.10	17.17	-	-
			Mid	2.696	15.12	-	19.12	19.03
			High	2.132	17.04	17.16	-	-
	5865	173	Low	2.125	17.09	18.09	-	-
			Mid	2.688	12.64	-	19.13	19.01
			High	2.104	17.03	17.10	-	-
	5885	177	Low	2.146	17.10	17.09	-	-
			Mid	2.683	13.89	-	19.13	18.99
			High	2.143	17.08	17.17	-	-

Limit : > 0.5 MHz

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	6 dB BW(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 3	5755	151	Low	2.132	4.192	36.64	37.71	-	-
			Mid	2.139	4.153	33.89	-	38.21	38.08
			High	2.167	4.206	36.57	36.90	-	-
	5795	159	Low	2.105	4.211	34.09	37.72	-	-
			Mid	2.137	4.139	35.13	-	38.21	38.05
			High	2.170	4.174	36.65	36.76	-	-
UNII 4	5835	167	Low	2.147	4.218	35.34	37.72	-	-
			Mid	2.189	4.121	35.09	-	38.22	38.07
			High	2.172	4.201	35.32	36.93	-	-
	5875	175	Low	2.133	4.181	36.63	37.67	-	-
			Mid	2.175	4.145	33.88	-	38.26	38.06
			High	2.162	4.133	34.10	36.95	-	-

Limit : > 0.5 MHz

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	6 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 3	5775	155	Low	2.250	4.318	8.441	76.78	77.37	-	-
			Mid	2.824	4.270	8.412	75.16	-	78.23	78.08
			High	2.269	4.298	8.453	76.80	76.96	-	-
UNII 4	5855	171	Low	2.275	4.354	8.447	76.72	77.91	-	-
			Mid	2.835	4.289	8.419	75.17	-	78.23	78.00
			High	2.282	4.315	8.425	76.76	76.87	-	-

Limit : > 0.5 MHz

802.11ax(HE160)

HE160_80L	Frequency [MHz]	Channel No.	RU Index	6dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 3&4	5815	163	Low	2.415	4.578	8.718	19.25	156.83	-	-
			Mid	2.997	4.557	8.680	19.29	-	155.64	-
			High	2.403	4.503	8.668	19.32	153.74	-	-

HE160_80U	Frequency [MHz]	Channel No.	RU Index	6dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 3&4	5815	163	Low	2.410	4.553	8.693	19.28	155.04	-	-
			Mid	3.004	4.550	8.647	19.28	-	152.51	-
			High	2.433	4.587	8.699	19.33	156.76	-	-

HE160_SU	Frequency [MHz]	Channel No.	6dB BW (MHz)
			SU
UNII 3&4	5815	163	158.11

10.4 OUTPUT POWER MEASUREMENT

Straddle channel data in the table below are for reporting purposes only.

Straddle channel data were added in section 10.6.3.

10.4.1 Ant 1

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output Power (dBm)	UNII 1	5180	36	Low	9.35	13.58	13.71	-	-
				Mid	9.06	13.37	-	13.61	15.53
				High	9.40	13.59	13.72	-	-
		5200	40	Low	9.51	13.55	13.68	-	-
				Mid	9.07	13.33	-	15.79	16.08
				High	9.52	13.58	13.70	-	-
		5240	48	Low	9.38	13.21	14.54	-	-
				Mid	9.06	12.98	-	16.32	16.18
				High	9.39	13.22	14.55	-	-
	UNII 2a	5260	52	Low	9.94	13.69	15.23	-	-
				Mid	9.62	13.44	-	16.59	16.46
				High	9.95	13.71	15.27	-	-
		5280	56	Low	10.35	13.90	14.99	-	-
				Mid	10.05	13.65	-	14.99	16.83
				High	10.44	13.92	15.00	-	-
		5320	64	Low	10.45	13.88	13.00	-	-
				Mid	10.10	13.63	-	13.03	15.80
				High	10.52	13.91	13.01	-	-
	UNII 2c	5500	100	Low	9.48	12.91	13.85	-	-
				Mid	9.17	12.64	-	10.27	14.56
				High	9.49	12.92	13.86	-	-
		5580	116	Low	8.51	11.59	13.54	-	-
				Mid	8.14	11.36	-	16.03	15.76
				High	8.52	11.60	13.58	-	-
		5720	144	Low	8.60	11.34	13.33	-	-
				Mid	8.31	11.19	-	15.86	15.52
				High	8.79	11.51	13.43	-	-
	UNII 3	5745	149	Low	8.58	11.33	13.31	-	-
				Mid	8.29	11.18	-	15.84	15.50
				High	8.76	11.47	13.46	-	-

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
		5785	157	Low	8.94	11.70	13.61	-	-
				Mid	8.61	11.57	-	16.23	15.92
				High	9.08	11.80	13.77	-	-
		5825	165	Low	8.87	11.45	14.07	-	-
				Mid	8.61	11.27	-	15.98	15.66
				High	9.00	11.62	14.17	-	-
	UNII 4	5845	169	Low	8.83	11.40	13.99	-	-
				Mid	8.48	11.22	-	15.93	15.60
				High	8.99	11.54	14.07	-	-
		5865	173	Low	8.98	11.62	13.78	-	-
				Mid	8.68	11.50	-	15.98	15.63
				High	9.20	11.88	13.87	-	-
		5885	177	Low	9.04	11.80	14.08	-	-
				Mid	8.77	11.68	-	16.38	16.02
				High	9.25	12.03	14.19	-	-

HE40		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output Power (dBm)	UNII 1	5190	38	Low	9.50	13.57	13.80	13.65	-	-
				Mid	9.16	13.26	13.58	-	13.50	15.79
				High	9.51	13.59	13.81	13.66	-	-
		5230	46	Low	8.84	12.43	13.98	14.58	-	-
				Mid	8.57	12.18	13.82	-	14.90	14.60
				High	8.88	12.45	13.99	14.59	-	-
	UNII 2a	5270	54	Low	9.95	13.67	14.27	15.32	-	-
				Mid	9.63	13.32	14.04	-	15.26	15.90
				High	9.96	13.68	14.28	15.33	-	-
		5310	62	Low	10.18	13.90	13.13	11.57	-	-
				Mid	10.02	13.55	12.95	-	12.99	15.73
				High	10.19	13.91	13.14	11.58	-	-
	UNII 2c	5510	102	Low	9.28	12.93	12.97	12.80	-	-
				Mid	9.12	12.53	12.72	-	12.81	14.48
				High	9.31	12.94	12.99	12.81	-	-
		5550	110	Low	8.34	11.58	13.78	14.60	-	-
				Mid	8.14	11.35	13.59	-	14.72	14.50
				High	8.35	11.59	13.79	14.61	-	-
		5710	142	Low	8.41	11.26	13.44	14.44	-	-
				Mid	8.32	11.19	13.32	-	14.70	14.45
				High	8.69	11.51	13.62	14.45	-	-
	UNII 3	5755	151	Low	8.45	11.32	14.01	14.69	-	-
				Mid	8.41	11.28	13.92	-	14.94	14.67
				High	8.84	11.66	14.27	14.84	-	-
		5795	159	Low	8.78	11.66	13.96	14.93	-	-
				Mid	8.71	11.65	13.91	-	15.12	14.87
				High	9.11	12.00	14.21	15.08	-	-
	UNII 4	5835	167	Low	8.70	11.57	14.12	14.91	-	-
				Mid	8.61	11.50	14.02	-	15.05	14.78
				High	8.95	11.82	14.35	15.16	-	-
		5875	175	Low	8.84	11.75	14.23	15.01	-	-
				Mid	8.76	11.72	14.20	-	15.20	14.95
				High	9.19	12.08	14.50	15.08	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1	5210	42	Low	9.32	12.83	12.76	12.68	13.91	-	-
				Mid	8.70	12.26	12.21	12.37	-	13.94	13.59
				High	9.34	12.84	12.77	12.69	13.92	-	-
	UNII 2A	5290	58	Low	10.01	14.07	15.63	13.83	14.86	-	-
				Mid	9.93	13.52	15.15	13.61	-	14.04	15.06
				High	10.02	14.08	15.64	13.85	14.87	-	-
	UNII 2C	5530	106	Low	9.90	12.90	15.03	12.75	12.59	-	-
				Mid	9.27	12.38	14.50	12.48	-	11.39	14.38
				High	9.92	12.91	15.04	12.76	12.60	-	-
		5610	122	Low	8.66	11.73	13.75	14.00	13.81	-	-
				Mid	8.32	11.42	13.45	13.70	-	14.67	13.34
				High	8.67	11.74	13.75	14.01	13.82	-	-
		5690	138	Low	8.85	11.67	13.55	13.54	13.36	-	-
				Mid	8.74	11.53	13.45	13.26	-	14.82	13.33
				High	9.24	12.00	13.56	13.55	13.37	-	-
	UNII 3	5775	155	Low	8.83	11.56	13.51	12.98	12.91	-	-
				Mid	8.91	11.73	13.69	12.92	-	14.95	13.52
				High	9.48	12.30	14.28	13.01	13.10	-	-
	UNII 4	5855	171	Low	8.65	11.36	13.99	12.63	12.59	-	-
				Mid	8.70	11.50	14.10	12.63	-	15.03	13.86
				High	9.32	11.98	14.47	13.07	12.89	-	-

HE160_80L		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1&2A	5250	50	Low	9.69	11.89	11.88	11.89	11.73	-	-
				Mid	9.42	11.57	11.47	11.72	-	11.46	-
				High	9.70	11.91	11.89	11.90	11.75	-	-
	UNII 2C	5570	114	Low	8.74	11.88	11.83	11.85	10.42	-	-
				Mid	8.48	11.55	11.50	11.66	-	10.38	-
				High	8.75	11.90	11.84	11.86	10.45	-	-
	UNII 3&4	5815	163	Low	8.09	10.86	11.31	11.43	11.39	-	-
				Mid	8.53	11.34	11.44	11.49	-	11.36	-
				High	8.82	11.55	11.53	11.56	11.47	-	-

HE160_80U		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1&2A	5250	50	Low	9.04	11.23	11.20	11.17	11.07	-	-
				Mid	8.98	11.23	11.16	11.14	-	11.03	-
				High	9.05	11.25	11.21	11.19	11.10	-	-
	UNII 2C	5570	114	Low	8.17	11.24	11.21	11.25	9.96	-	-
				Mid	8.26	11.38	11.36	11.31	-	10.00	-
				High	8.32	11.46	11.48	11.50	10.13	-	-
	UNII 3&4	5815	163	Low	8.86	11.66	11.69	11.81	11.90	-	-
				Mid	9.46	12.36	12.31	12.10	-	12.10	-
				High	9.79	12.59	12.52	12.56	12.42	-	-

HE160_SU		Frequency [MHz]	Channel No.	Max. Average Power (dBm)
				SU
Max Output Power (dBm)	UNII 1&2A	5250	50	13.26
	UNII 2C	5570	114	12.80
	UNII 3&4	5815	163	12.92

10.4.2 Ant 2

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output Power (dBm)	UNII 1	5180	36	Low	8.01	10.98	11.93	-	-
				Mid	7.71	10.86	-	11.97	14.26
				High	8.16	11.02	12.00	-	-
		5200	40	Low	8.04	10.92	11.91	-	-
				Mid	8.02	10.75	-	14.09	14.97
				High	8.20	11.08	12.01	-	-
		5240	48	Low	8.41	11.35	13.55	-	-
				Mid	8.07	11.13	-	15.52	15.27
				High	8.56	11.47	13.64	-	-
	UNII 2A	5260	52	Low	8.33	11.08	13.37	-	-
				Mid	8.00	10.92	-	15.39	15.16
				High	8.42	11.12	13.43	-	-
		5280	56	Low	8.35	11.04	12.01	-	-
				Mid	7.97	10.89	-	12.04	15.11
				High	8.44	11.14	12.07	-	-
		5320	64	Low	8.33	11.05	10.12	-	-
				Mid	7.96	10.86	-	10.16	12.68
				High	8.43	11.09	10.18	-	-
	UNII 2C	5500	100	Low	8.41	11.20	12.12	-	-
				Mid	8.06	11.02	-	9.39	13.04
				High	8.53	11.29	12.17	-	-
		5580	116	Low	8.54	11.25	13.48	-	-
				Mid	8.21	11.12	-	15.49	15.26
				High	8.73	11.43	13.61	-	-
		5720	144	Low	8.37	11.08	13.49	-	-
				Mid	8.04	10.92	-	15.34	15.10
				High	8.49	11.15	13.58	-	-
	UNII 3	5745	149	Low	8.36	11.11	13.48	-	-
				Mid	8.01	10.93	-	15.46	15.08
				High	8.46	11.18	13.55	-	-
		5785	157	Low	9.03	11.74	14.07	-	-
				Mid	8.65	11.57	-	15.91	15.68
				High	9.08	11.81	14.09	-	-
		5825	165	Low	8.94	11.73	13.68	-	-

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
				Mid	8.53	11.54	-	15.88	15.62
				High	8.95	11.74	13.72	-	-
	UNII 4	5845	169	Low	8.84	11.62	13.64	-	-
				Mid	8.50	11.49	-	15.85	15.59
				High	8.85	11.65	13.66	-	-
		5865	173	Low	8.53	11.33	13.48	-	-
				Mid	8.18	11.19	-	15.51	15.26
				High	8.55	11.35	13.52	-	-
		5885	177	Low	8.72	11.44	13.35	-	-
				Mid	8.30	11.32	-	15.65	15.41
				High	8.74	11.49	13.39	-	-

HE40		Frequency [MHz]	Channel No.	RUIndex	Max. Average Power (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output Power (dBm)	UNII 1	5190	38	Low	7.93	11.02	11.95	11.86	-	-
				Mid	7.83	10.93	11.85	-	10.99	13.97
				High	8.17	11.23	12.13	11.97	-	-
		5230	46	Low	8.28	11.31	13.13	13.75	-	-
				Mid	8.26	11.34	13.10	-	14.33	14.09
				High	8.55	11.62	13.37	13.89	-	-
	UNII 2A	5270	54	Low	8.25	11.14	12.07	13.29	-	-
				Mid	8.03	11.05	11.99	-	13.39	14.23
				High	8.39	11.30	12.22	13.38	-	-
		5310	62	Low	8.18	11.07	10.17	9.12	-	-
				Mid	8.06	11.04	10.08	-	10.20	12.65
				High	8.35	11.26	10.31	9.22	-	-
	UNII 2C	5510	102	Low	8.29	11.20	11.18	11.07	-	-
				Mid	8.11	11.12	11.07	-	11.20	12.96
				High	8.49	11.45	11.39	11.21	-	-
		5550	110	Low	8.36	11.24	13.51	13.54	-	-
				Mid	8.28	11.25	13.47	-	14.51	14.26
				High	8.73	11.55	13.80	13.76	-	-
		5710	142	Low	8.18	11.10	13.53	13.50	-	-
				Mid	8.13	11.08	13.45	-	14.58	14.32
				High	8.50	11.40	13.76	13.64	-	-
	UNII 3	5755	151	Low	8.87	11.75	14.13	13.95	-	-
				Mid	8.74	11.70	14.06	-	15.03	14.77
				High	9.12	12.00	14.34	14.09	-	-
		5795	159	Low	9.04	12.01	14.04	14.11	-	-
				Mid	8.87	11.86	14.02	-	15.11	14.86
				High	9.13	12.09	14.16	14.15	-	-
	UNII 4	5835	167	Low	8.77	11.82	13.74	13.86	-	-
				Mid	8.58	11.63	13.58	-	14.80	14.54
				High	8.79	11.84	13.75	13.87	-	-
		5875	175	Low	8.61	11.69	13.89	13.87	-	-
				Mid	8.45	11.38	13.74	-	14.89	14.63
				High	8.63	11.71	13.90	13.88	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1	5210	42	Low	8.43	11.42	11.22	11.23	14.05	-	-
				Mid	8.40	11.42	11.28	11.22	-	12.41	13.01
				High	8.90	11.86	11.72	11.65	14.37	-	-
	UNII 2A	5290	58	Low	8.33	11.17	13.40	11.07	14.30	-	-
				Mid	8.28	11.15	13.42	11.04	-	12.14	13.22
				High	8.67	11.42	13.75	11.37	14.53	-	-
	UNII 2C	5530	106	Low	8.28	11.06	13.26	10.96	10.94	-	-
				Mid	8.26	11.14	13.35	10.97	-	10.20	13.15
				High	8.82	11.63	13.77	11.40	11.26	-	-
		5610	122	Low	8.44	11.18	13.42	14.25	14.23	-	-
				Mid	8.53	11.40	13.62	14.32	-	14.48	13.39
				High	9.00	11.82	14.00	14.75	14.56	-	-
		5690	138	Low	8.08	10.96	13.09	13.98	13.94	-	-
				Mid	8.11	11.07	13.19	13.98	-	14.17	12.98
				High	8.65	11.55	13.60	14.41	14.23	-	-
	UNII 3	5775	155	Low	8.93	12.05	14.05	14.80	14.78	-	-
				Mid	8.96	11.83	14.12	14.82	-	14.94	13.90
				High	8.98	12.16	14.39	15.13	15.02	-	-
	UNII 4	5855	171	Low	8.82	12.00	13.94	15.02	14.91	-	-
				Mid	8.74	11.70	13.64	14.88	-	14.82	13.51
				High	8.83	12.01	13.95	15.04	14.93	-	-

HE160_80L		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1&2A	5250	50	Low	7.79	9.80	9.81	9.93	9.88	-	-
				Mid	8.02	10.07	10.02	10.02	-	9.93	-
				High	8.21	10.23	10.17	10.18	10.06	-	-
	UNII 2C	5570	114	Low	8.25	11.20	11.23	11.35	10.37	-	-
				Mid	8.54	11.48	11.46	11.45	-	10.39	-
				High	8.69	11.63	11.54	11.55	10.51	-	-
	UNII 3&4	5815	163	Low	8.67	11.59	13.76	13.88	13.92	-	-
				Mid	9.02	11.91	13.97	14.01	-	13.89	-
				High	9.06	11.92	14.00	14.04	14.02	-	-

HE160_80U		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1&2A	5250	50	Low	8.22	10.28	10.23	10.30	10.32	-	-
				Mid	8.57	10.70	10.65	10.50	-	10.48	-
				High	8.86	10.90	10.87	10.89	10.76	-	-
	UNII 2C	5570	114	Low	8.70	11.66	11.66	11.76	10.87	-	-
				Mid	9.22	12.22	12.25	12.03	-	11.09	-
				High	9.58	12.50	12.51	12.52	11.41	-	-
	UNII 3&4	5815	163	Low	9.08	11.93	14.10	14.15	14.15	-	-
				Mid	9.32	12.21	14.31	14.30	-	14.11	-
				High	9.33	12.22	14.33	14.32	14.20	-	-

HE160_SU		Frequency [MHz]	Channel No.	Max. Average Power (dBm)
				SU
Max Output Power (dBm)	UNII 1&2A	5250	50	12.20
	UNII 2C	5570	114	12.77
	UNII 3&4	5815	163	12.91

10.4.3 MIMO(Ant 1 + Ant 2)

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output Power (dBm)	UNII 1	5180	36	Low	11.74	15.48	15.92	-	-
				Mid	11.45	15.31	-	15.88	17.95
				High	11.83	15.50	15.96	-	-
		5200	40	Low	11.85	15.45	15.90	-	-
				Mid	11.59	15.24	-	18.03	18.57
				High	11.92	15.51	15.95	-	-
		5240	48	Low	11.93	15.39	17.08	-	-
				Mid	11.60	15.16	-	18.95	18.76
				High	12.00	15.44	17.13	-	-
	UNII 2A	5260	52	Low	12.22	15.59	17.41	-	-
				Mid	11.89	15.37	-	19.04	18.87
				High	12.26	15.61	17.46	-	-
		5280	56	Low	12.47	15.71	16.76	-	-
				Mid	12.14	15.50	-	16.77	19.07
				High	12.57	15.76	16.79	-	-
		5320	64	Low	12.53	15.70	14.81	-	-
				Mid	12.17	15.47	-	14.84	17.53
				High	12.61	15.73	14.83	-	-
	UNII 2C	5500	100	Low	11.99	15.15	16.08	-	-
				Mid	11.66	14.91	-	12.86	16.87
				High	12.05	15.19	16.11	-	-
		5580	116	Low	11.54	14.43	16.52	-	-
				Mid	11.19	14.25	-	18.78	18.53
				High	11.64	14.52	16.60	-	-
		5720	144	Low	11.50	14.22	16.42	-	-
				Mid	11.19	14.07	-	18.62	18.32
				High	11.66	14.34	16.52	-	-
	UNII 3	5745	149	Low	11.48	14.23	16.41	-	-
				Mid	11.16	14.07	-	18.67	18.31
				High	11.62	14.34	16.52	-	-
		5785	157	Low	12.00	14.73	16.85	-	-
				Mid	11.64	14.58	-	19.08	18.81
				High	12.09	14.81	16.94	-	-
		5825	165	Low	11.91	14.60	16.89	-	-

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
				Mid	11.58	14.42	-	18.94	18.65
				High	11.99	14.69	16.96	-	-
	UNII 4	5845	169	Low	11.85	14.52	16.83	-	-
				Mid	11.50	14.37	-	18.90	18.60
				High	11.93	14.61	16.88	-	-
		5865	173	Low	11.77	14.48	16.64	-	-
				Mid	11.45	14.36	-	18.76	18.46
				High	11.90	14.63	16.71	-	-
		5885	177	Low	11.89	14.63	16.74	-	-
				Mid	11.55	14.51	-	19.04	18.74
				High	12.01	14.78	16.82	-	-
Max EIRP Power (dBm)	UNII 4	5845	169	Low	10.94	13.61	15.92	-	-
				Mid	10.59	13.46	-	17.99	17.69
				High	11.02	13.70	15.97	-	-
		5865	173	Low	10.86	13.57	15.73	-	-
				Mid	10.54	13.45	-	17.85	17.55
				High	10.99	13.72	15.80	-	-
		5885	177	Low	10.98	13.72	15.83	-	-
				Mid	10.64	13.60	-	18.13	17.83
				High	11.10	13.87	15.91	-	-

HE40		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output Power (dBm)	UNII 1	5190	38	Low	11.80	15.49	15.98	15.86	-	-
				Mid	11.56	15.26	15.81	-	15.43	17.98
				High	11.90	15.58	16.06	15.91	-	-
		5230	46	Low	11.58	14.92	16.59	17.19	-	-
				Mid	11.43	14.79	16.48	-	17.64	17.37
				High	11.73	15.07	16.70	17.26	-	-
	UNII 2A	5270	54	Low	12.19	15.60	16.32	17.43	-	-
				Mid	11.91	15.34	16.14	-	17.44	18.16
				High	12.25	15.66	16.38	17.47	-	-
		5310	62	Low	12.30	15.72	14.90	13.52	-	-
				Mid	12.16	15.48	14.76	-	14.83	17.47
				High	12.38	15.79	14.96	13.57	-	-
	UNII 2C	5510	102	Low	11.82	15.16	15.18	15.03	-	-
				Mid	11.66	14.89	14.98	-	15.09	16.80
				High	11.93	15.27	15.27	15.09	-	-
		5550	110	Low	11.36	14.42	16.66	17.11	-	-
				Mid	11.22	14.31	16.54	-	17.63	17.39
				High	11.56	14.58	16.81	17.21	-	-
		5710	142	Low	11.31	14.19	16.50	17.00	-	-
				Mid	11.24	14.15	16.40	-	17.65	17.40
				High	11.60	14.46	16.70	17.07	-	-
	UNII 3	5755	151	Low	11.68	14.55	17.08	17.35	-	-
				Mid	11.59	14.51	17.00	-	18.00	17.73
				High	11.99	14.84	17.32	17.49	-	-
		5795	159	Low	11.92	14.85	17.01	17.55	-	-
				Mid	11.80	14.77	16.98	-	18.12	17.88
				High	12.13	15.05	17.19	17.65	-	-
	UNII 4	5835	167	Low	11.75	14.70	16.94	17.43	-	-
				Mid	11.60	14.58	16.82	-	17.94	17.67
				High	11.88	14.84	17.07	17.57	-	-
		5875	175	Low	11.74	14.73	17.07	17.49	-	-
				Mid	11.62	14.56	16.99	-	18.06	17.81
				High	11.93	14.91	17.22	17.53	-	-
Max EIRP Power (dBm)	UNII 4	5835	167	Low	10.84	13.79	16.03	16.52	-	-
				Mid	10.69	13.67	15.91	-	17.03	16.76

				High	10.97	13.93	16.16	16.66	-	-
		5875	175	Low	10.83	13.82	16.16	16.58	-	-
				Mid	10.71	13.65	16.08	-	17.15	16.90
				High	11.02	14.00	16.31	16.62	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1	5210	42	Low	11.91	15.19	15.07	15.03	16.99	-	-
				Mid	11.56	14.87	14.78	14.84	-	16.25	16.32
				High	12.13	15.39	15.29	15.21	17.16	-	-
	UNII 2A	5290	58	Low	12.26	15.87	17.66	15.68	17.60	-	-
				Mid	12.19	15.50	17.38	15.52	-	16.20	17.24
				High	12.41	15.96	17.81	15.79	17.71	-	-
	UNII 2C	5530	106	Low	12.18	15.08	17.24	14.96	14.85	-	-
				Mid	11.80	14.81	16.97	14.80	-	13.85	16.82
				High	12.41	15.33	17.46	15.14	14.99	-	-
		5610	122	Low	11.56	14.47	16.60	17.13	17.04	-	-
				Mid	11.44	14.42	16.55	17.03	-	17.59	16.38
				High	11.85	14.79	16.89	17.40	17.22	-	-
		5690	138	Low	11.49	14.34	16.34	16.78	16.67	-	-
				Mid	11.45	14.32	16.33	16.65	-	17.52	16.17
				High	11.97	14.79	16.59	17.01	16.83	-	-
	UNII 3	5775	155	Low	11.89	14.82	16.80	16.99	16.96	-	-
				Mid	11.94	14.79	16.92	16.98	-	17.96	16.73
				High	12.25	15.24	17.35	17.21	17.18	-	-
	UNII 4	5855	171	Low	11.74	14.70	16.97	17.00	16.92	-	-
				Mid	11.73	14.61	16.89	16.91	-	17.94	16.70
				High	12.09	15.00	17.23	17.17	17.04	-	-
Max EIRP Power (dBm)	UNII 4	5855	171	Low	10.83	13.79	16.06	16.09	16.01	-	-
				Mid	10.82	13.70	15.98	16.00	-	17.03	15.79
				High	11.18	14.09	16.32	16.26	16.13	-	-

HE160_80L		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1&2A	5250	50	Low	11.85	13.98	13.97	14.03	13.92	-	-
				Mid	11.78	13.90	13.81	13.96	-	13.78	-
				High	12.03	14.16	14.12	14.13	14.00	-	-
	UNII 2C	5570	114	Low	11.51	14.57	14.55	14.62	13.41	-	-
				Mid	11.52	14.52	14.49	14.57	-	13.39	-
				High	11.73	14.77	14.70	14.72	13.49	-	-
	UNII 3&4	5815	163	Low	11.40	14.25	15.72	15.84	15.85	-	-
				Mid	11.79	14.64	15.89	15.94	-	15.81	-
				High	11.95	14.75	15.95	15.98	15.94	-	-
Max EIRP Power (dBm)	UNII 3&4	5815	163	Low	10.49	13.34	14.81	14.93	14.94	-	-
				Mid	10.88	13.73	14.98	15.03	-	14.90	-
				High	11.04	13.84	15.04	15.07	15.03	-	-

HE160_80U		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1&2A	5250	50	Low	11.66	13.79	13.75	13.77	13.72	-	-
				Mid	11.79	13.99	13.92	13.84	-	13.77	-
				High	11.97	14.09	14.05	14.05	13.94	-	-
	UNII 2C	5570	114	Low	11.45	14.46	14.45	14.52	13.45	-	-
				Mid	11.78	14.83	14.84	14.70	-	13.59	-
				High	12.01	15.02	15.03	15.05	13.83	-	-
	UNII 3&4	5815	163	Low	11.98	14.81	16.07	16.15	16.18	-	-
				Mid	12.40	15.30	16.44	16.35	-	16.23	-
				High	12.58	15.41	16.53	16.54	16.41	-	-
Max EIRP Power (dBm)	UNII 3&4	5815	163	Low	11.07	13.90	15.16	15.24	15.27	-	-
				Mid	11.49	14.39	15.53	15.44	-	15.32	-
				High	11.67	14.50	15.62	15.63	15.50	-	-

HE160_SU		Frequency [MHz]	Channel No.	Max. Average Power (dBm)
				SU
Max Output Power (dBm)	UNII 1&2A	5250	50	15.77
	UNII 2C	5570	114	15.80
	UNII 3&4	5815	163	15.92
Max EIRP Power (dBm)	UNII 3&4	5815	163	15.01

#Note : Max EIRP Power = Conducted Power(Sum) + Ant Gain(Directional Gain)

Limit

(UNII 1) : 23.98 dBm

(UNII 2A, 2C) : 23.98 dBm or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)

(UNII 3) : 30.00 dBm

(UNII 4) : EIRP 30.0 dBm/MHz

(UNII 3&4) : Worst limit 30.00 dBm ➔UNII 4 Band Antenna Gain Negative

10.5 POWER SPECTRAL DENSITY

10.5.1 Ant 1

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output PSD (dBm)	UNII 1	5180	36	Low	6.366	7.925	6.141	-	-
				Mid	4.941	7.445	-	3.975	4.041
				High	6.350	7.713	5.866	-	-
		5200	40	Low	6.536	7.956	6.047	-	-
				Mid	5.105	7.482	-	3.984	4.128
				High	6.459	7.624	6.052	-	-
		5240	48	Low	6.744	7.511	6.224	-	-
				Mid	5.137	7.332	-	4.257	4.431
				High	6.568	7.642	6.099	-	-
	UNII 2A	5260	52	Low	7.153	8.002	6.876	-	-
				Mid	5.743	8.152	-	4.669	4.796
				High	7.228	7.951	6.839	-	-
		5280	56	Low	7.731	8.415	7.651	-	-
				Mid	6.244	8.207	-	4.934	5.056
				High	7.632	8.352	7.583	-	-
		5320	64	Low	7.846	8.600	7.414	-	-
				Mid	6.276	8.316	-	5.031	5.014
				High	7.840	8.264	7.529	-	-
	UNII 2C	5500	100	Low	6.718	7.279	6.331	-	-
				Mid	5.339	6.950	-	4.301	4.418
				High	6.647	7.130	6.211	-	-
		5580	116	Low	5.628	5.953	5.005	-	-
				Mid	4.295	5.877	-	3.887	3.777
				High	5.531	5.889	5.054	-	-
		5720	144	Low	5.842	5.847	5.048	-	-
				Mid	4.365	5.437	-	3.807	3.711
				High	6.049	5.899	5.138	-	-
	UNII 3	5745	149	Low	3.104	2.850	1.890	-	-
				Mid	2.527	2.660	-	0.943	1.001
				High	3.537	3.057	2.193	-	-
		5785	157	Low	3.529	3.263	2.444	-	-
				Mid	2.956	3.076	-	1.546	1.493

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
				High	3.823	3.528	2.712	-	-
		5825	165	Low	3.555	3.300	2.917	-	-
				Mid	3.142	3.192	-	1.372	1.298
				High	4.019	3.414	3.170	-	-
	UNII 4	5845	169	Low	6.590	6.174	5.465	-	-
				Mid	5.069	5.925	-	4.086	4.039
				High	6.175	6.410	5.723	-	-
		5865	173	Low	6.373	6.357	5.323	-	-
				Mid	5.072	6.199	-	4.166	3.955
				High	6.526	6.359	5.475	-	-
		5885	177	Low	5.409	5.266	4.202	-	-
				Mid	4.283	5.111	-	3.283	2.901
				High	5.459	5.329	4.505	-	-

HE40		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output PSD (dBm)	UNII 1	5190	38	Low	6.988	7.863	6.265	3.290	-	-
				Mid	6.181	7.607	6.034	-	0.677	0.920
				High	6.294	7.636	5.923	3.123	-	-
		5230	46	Low	5.944	6.928	5.460	2.297	-	-
				Mid	5.745	6.507	5.296	-	-0.052	0.052
				High	5.986	6.552	5.437	2.188	-	-
	UNII 2A	5270	54	Low	7.171	8.193	6.828	3.429	-	-
				Mid	6.875	7.734	6.873	-	1.057	1.164
				High	7.159	7.817	6.828	3.305	-	-
		5310	62	Low	8.034	8.562	7.552	3.632	-	-
				Mid	7.328	7.973	7.357	-	1.379	1.555
				High	7.552	8.134	7.232	3.548	-	-
	UNII 2C	5510	102	Low	6.805	7.408	6.416	3.925	-	-
				Mid	6.573	6.961	6.118	-	0.998	1.016
				High	6.508	7.033	6.309	4.001	-	-
		5550	110	Low	5.459	5.833	5.398	2.572	-	-
				Mid	5.499	5.709	5.116	-	-0.297	-0.166
				High	5.593	5.855	4.993	2.421	-	-
		5710	142	Low	5.629	5.664	4.819	2.313	-	-
				Mid	5.520	5.523	4.791	-	-0.273	-0.263
				High	5.862	5.891	5.217	2.091	-	-
	UNII 3	5755	151	Low	2.897	2.765	2.576	-0.763	-	-
				Mid	2.720	2.984	2.495	-	-2.679	-2.819
				High	3.263	3.302	2.820	-0.532	-	-
		5795	159	Low	3.365	3.237	2.575	-0.429	-	-
				Mid	3.275	3.409	2.490	-	-2.456	-2.656
				High	3.700	3.680	2.847	-0.363	-	-
	UNII 4	5835	167	Low	5.630	5.671	5.515	2.811	-	-
				Mid	5.992	6.050	5.393	-	0.182	0.038
				High	6.483	6.308	5.906	3.204	-	-
		5875	175	Low	6.109	6.214	5.635	3.009	-	-
				Mid	6.103	6.316	5.577	-	0.517	0.386
				High	6.374	6.589	6.208	3.369	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1	5210	42	Low	6.572	7.280	5.915	3.134	0.225	-	-
				Mid	4.748	6.733	5.520	2.929	-	-2.849	-3.995
				High	5.842	6.611	5.310	2.466	-0.611	-	-
	UNII 2A	5290	58	Low	7.740	8.550	7.458	3.872	0.829	-	-
				Mid	5.961	8.135	6.629	3.699	-	-1.954	-2.511
				High	7.045	8.034	6.695	3.391	0.355	-	-
	UNII 2C	5530	106	Low	7.299	7.304	6.512	4.077	1.048	-	-
				Mid	5.167	6.809	5.835	3.819	-	-2.068	-3.162
				High	6.480	6.975	6.126	3.860	0.851	-	-
		5610	122	Low	6.031	6.265	5.322	2.872	-0.156	-	-
				Mid	4.540	5.839	5.098	2.641	-	-3.089	-4.242
				High	5.692	6.002	5.227	2.678	-0.264	-	-
		5690	138	Low	6.212	6.302	5.050	2.820	-0.251	-	-
				Mid	4.829	5.974	5.030	2.634	-	-3.100	-4.269
				High	6.300	6.473	5.353	2.721	-0.338	-	-
	UNII 3	5775	155	Low	3.464	3.113	2.271	-0.428	-3.401	-	-
				Mid	2.974	3.283	2.035	-0.615	-	-5.460	-6.809
				High	3.876	3.755	3.052	-0.464	-3.534	-	-
	UNII 4	5855	171	Low	5.698	6.038	5.498	2.855	0.117	-	-
				Mid	5.154	6.148	5.624	3.106	-	-2.514	-3.673
				High	6.963	6.740	6.263	3.505	0.517	-	-

HE160_80L		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1&2A	5250	50	Low	6.233	7.101	5.417	2.376	-0.938	-	-
				Mid	4.868	6.768	5.259	2.116	-	-3.930	-
				High	5.831	6.651	4.888	1.604	-1.516	-	-
	UNII 2C	5570	114	Low	5.519	5.577	5.040	1.486	-1.690	-	-
				Mid	3.820	5.258	4.542	1.323	-	-4.974	-
				High	4.881	4.848	4.135	0.752	-1.876	-	-
	UNII 3&4	5815	163	Low	5.054	5.144	4.420	0.954	-2.009	-	-
				Mid	4.225	5.512	4.666	1.061	-	-4.878	-
				High	5.503	5.534	4.924	1.258	-1.673	-	-

HE160_80U		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1&2A	5250	50	Low	5.807	6.988	4.637	1.154	-1.865	-	-
				Mid	4.377	6.697	4.354	0.983	-	-5.078	-
				High	5.340	6.508	4.347	0.850	-1.862	-	-
	UNII 2C	5570	114	Low	4.907	5.109	3.759	0.474	-2.544	-	-
				Mid	3.773	5.016	3.939	0.499	-	-5.477	-
				High	4.823	5.021	4.005	0.625	-2.461	-	-
	UNII 3&4	5815	163	Low	5.619	5.909	5.156	1.566	-1.204	-	-
				Mid	5.134	6.447	5.481	2.005	-	-3.913	-
				High	6.559	6.523	5.709	2.370	-0.942	-	-

HE160_SU		Frequency [MHz]	Channel No.	Max. Power Spectral Density (dBm)
				SU
Max Output PSD (dBm)	UNII 1&2A	5250	50	-7.790
	UNII 2C	5570	114	-8.535
	UNII 3&4	5815	163	-7.979

Limit(UNII 1, 2A, 2C) : 11.0 dBm/MHz

Limit(UNII 3) : 30.0 dBm/500 kHz

Limit(UNII 4) : (EIRP) 14 dBm/MHz

10.5.2 Ant 2

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output PSD (dBm)	UNII 1	5180	36	Low	5.284	5.198	4.415	-	-
				Mid	3.928	5.169	-	3.007	3.032
				High	5.130	5.326	4.497	-	-
		5200	40	Low	5.130	5.421	4.316	-	-
				Mid	3.773	5.007	-	3.003	3.024
				High	5.388	5.436	4.609	-	-
		5240	48	Low	5.683	5.756	4.983	-	-
				Mid	4.133	5.569	-	3.406	3.304
				High	5.543	5.865	5.347	-	-
	UNII 2A	5260	52	Low	5.547	5.613	4.938	-	-
				Mid	4.177	5.302	-	3.296	3.231
				High	5.641	5.611	4.885	-	-
		5280	56	Low	5.700	5.626	4.563	-	-
				Mid	4.645	5.422	-	3.327	3.216
				High	5.663	5.690	4.529	-	-
		5320	64	Low	5.505	5.529	4.441	-	-
				Mid	4.160	5.395	-	3.434	3.204
				High	5.646	5.538	4.492	-	-
	UNII 2C	5500	100	Low	5.569	5.515	4.710	-	-
				Mid	3.908	5.484	-	3.018	2.900
				High	5.661	5.791	4.708	-	-
		5580	116	Low	5.642	5.758	4.926	-	-
				Mid	4.319	5.401	-	3.214	3.109
				High	5.844	5.717	4.980	-	-
		5720	144	Low	5.478	5.560	4.866	-	-
				Mid	4.185	5.540	-	3.451	3.412
				High	5.843	5.782	5.002	-	-
	UNII 3	5745	149	Low	dlst	2.640	2.207	-	-
				Mid	2.349	2.623	-	0.462	0.480
				High	2.971	2.924	2.283	-	-
		5785	157	Low	3.717	3.124	2.569	-	-
				Mid	2.983	3.315	-	1.309	0.979
				High	3.783	3.377	2.984	-	-
		5825	165	Low	3.676	3.538	2.456	-	-

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
				Mid	2.991	3.321	-	1.123	1.168
				High	3.824	3.573	2.737	-	-
	UNII 4	5845	169	Low	6.427	6.453	5.502	-	-
				Mid	4.864	6.122	-	4.144	4.038
				High	6.089	6.216	5.292	-	-
		5865	173	Low	6.133	6.088	5.318	-	-
				Mid	4.623	5.894	-	3.777	3.630
				High	6.172	5.955	5.256	-	-
		5885	177	Low	4.718	4.968	3.763	-	-
				Mid	3.315	4.711	-	2.372	2.314
				High	4.817	4.965	3.694	-	-

HE40		Frequency [MHz]	Channel No.	RUIndex	Max. Power Spectral Density (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output PSD (dBm)	UNII 1	5190	38	Low	4.958	5.256	4.461	1.823	-	-
				Mid	5.024	5.217	4.434	-	-0.932	-0.936
				High	5.245	5.412	4.745	1.908	-	-
		5230	46	Low	5.443	5.638	4.537	2.094	-	-
				Mid	5.461	5.601	4.527	-	-0.785	-0.834
				High	5.675	6.060	4.672	2.138	-	-
	UNII 2A	5270	54	Low	5.408	5.748	4.915	2.369	-	-
				Mid	5.374	5.416	4.708	-	-0.495	-0.549
				High	5.577	5.716	5.027	2.407	-	-
		5310	62	Low	5.401	5.476	4.689	2.039	-	-
				Mid	5.211	5.468	4.334	-	-0.723	-0.489
				High	5.657	6.075	4.590	2.234	-	-
	UNII 2C	5510	102	Low	5.501	5.865	4.681	2.157	-	-
				Mid	5.266	5.454	4.600	-	-0.850	-0.696
				High	5.550	5.972	4.858	2.045	-	-
		5550	110	Low	5.501	5.689	4.856	2.107	-	-
				Mid	5.548	5.872	4.821	-	-0.510	-0.487
				High	5.980	5.910	5.186	2.420	-	-
		5710	142	Low	5.536	5.731	5.112	2.220	-	-
				Mid	5.260	5.644	5.023	-	-0.369	-0.578
				High	5.720	5.834	5.017	2.556	-	-
	UNII 3	5755	151	Low	3.363	3.519	2.718	-0.123	-	-
				Mid	3.461	3.327	2.489	-	-2.674	-2.940
				High	3.477	3.648	2.961	-0.018	-	-
		5795	159	Low	3.410	3.450	2.890	-0.019	-	-
				Mid	3.346	3.462	2.712	-	-2.607	-2.698
				High	3.562	4.071	2.971	0.238	-	-
	UNII 4	5835	167	Low	5.952	6.163	5.303	2.811	-	-
				Mid	5.795	6.244	5.060	-	-0.211	-0.087
				High	6.183	6.439	5.163	2.802	-	-
		5875	175	Low	6.050	6.235	5.437	2.790	-	-
				Mid	5.722	6.010	5.262	-	-0.067	-0.117
				High	6.216	6.043	5.304	2.905	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1	5210	42	Low	5.927	5.876	4.515	2.239	-0.879	-	-
				Mid	4.381	5.921	4.696	2.401	-	-3.682	-4.658
				High	5.939	6.266	5.142	2.640	-0.473	-	-
	UNII 2A	5290	58	Low	5.657	5.751	4.910	2.338	-0.562	-	-
				Mid	4.326	5.420	4.857	2.291	-	-3.553	-4.478
				High	6.124	5.903	5.201	2.780	-0.524	-	-
	UNII 2C	5530	106	Low	5.968	5.712	4.913	2.370	-0.656	-	-
				Mid	4.393	5.855	4.847	2.280	-	-3.425	-4.574
				High	6.213	6.116	5.215	2.705	-0.221	-	-
		5610	122	Low	5.640	5.854	4.864	2.294	-0.666	-	-
				Mid	4.829	5.857	5.227	2.421	-	-3.291	-4.226
				High	6.032	6.323	5.439	2.655	-0.075	-	-
		5690	138	Low	5.358	5.409	4.534	1.942	-1.009	-	-
				Mid	4.437	5.761	4.564	2.266	-	-3.709	-4.622
				High	5.891	5.916	4.934	2.445	-0.588	-	-
	UNII 3	5775	155	Low	3.662	3.625	2.607	-0.133	-3.018	-	-
				Mid	3.059	3.386	2.714	0.189	-	-5.817	-6.548
				High	3.326	3.936	2.992	0.060	-2.902	-	-
	UNII 4	5855	171	Low	6.437	6.571	5.310	3.061	-0.038	-	-
				Mid	5.241	6.351	5.379	2.992	-	-3.007	-3.940
				High	6.203	6.492	5.259	2.981	-0.056	-	-

HE160_80L		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1&2A	5250	50	Low	4.206	4.725	3.908	0.447	-2.568	-	-
				Mid	3.289	4.653	4.117	0.595	-	-5.382	-
				High	4.595	5.143	4.177	0.751	-2.356	-	-
	UNII 2C	5570	114	Low	4.657	4.820	4.015	0.719	-2.250	-	-
				Mid	3.564	4.998	4.053	0.846	-	-5.380	-
				High	4.692	5.353	4.243	0.734	-2.299	-	-
	UNII 3&4	5815	163	Low	4.986	5.167	4.775	1.054	-1.858	-	-
				Mid	4.107	5.664	4.567	1.256	-	-5.157	-
				High	5.242	5.734	4.510	1.095	-2.017	-	-

HE160_80U		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1&2A	5250	50	Low	4.966	5.067	4.346	0.943	-2.199	-	-
				Mid	3.943	5.464	4.778	0.932	-	-4.959	-
				High	5.110	5.725	4.809	1.432	-1.860	-	-
	UNII 2C	5570	114	Low	4.999	5.200	4.205	0.875	-1.719	-	-
				Mid	4.487	5.743	4.767	1.547	-	-4.688	-
				High	5.730	6.150	5.177	1.574	-1.536	-	-
	UNII 3&4	5815	163	Low	5.091	5.190	4.563	1.138	-2.037	-	-
				Mid	4.206	5.402	4.573	0.921	-	-5.159	-
				High	4.894	5.313	4.228	0.901	-2.078	-	-

HE160_SU		Frequency [MHz]	Channel No.	Max. Power Spectral Density (dBm)
				SU
Max Output PSD (dBm)	UNII 1&2A	5250	50	-8.992
	UNII 2C	5570	114	-8.662
	UNII 3&4	5815	163	-8.692

Limit(UNII 1, 2A, 2C) : 11.0 dBm/MHz

Limit(UNII 3) : 30.0 dBm/500 kHz

Limit(UNII 4) : (EIRP) 14 dBm/MHz

10.5.3 MIMO(Ant 1 +Ant 2)

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output PSD (dBm)	UNII 1	5180	36	Low	8.868	9.783	8.373	-	-
				Mid	7.474	9.465	-	6.528	6.576
				High	8.793	9.692	8.245	-	-
		5200	40	Low	8.900	9.882	8.277	-	-
				Mid	7.500	9.429	-	6.532	6.621
				High	8.966	9.677	8.400	-	-
		5240	48	Low	9.256	9.732	8.658	-	-
				Mid	7.674	9.550	-	6.863	6.914
				High	9.096	9.854	8.749	-	-
	UNII 2A	5260	52	Low	9.434	9.980	9.024	-	-
				Mid	8.040	9.967	-	7.047	7.094
				High	9.516	9.947	8.981	-	-
		5280	56	Low	9.843	10.251	9.386	-	-
				Mid	8.528	10.045	-	7.215	7.243
				High	9.768	10.233	9.329	-	-
		5320	64	Low	9.841	10.341	9.187	-	-
				Mid	8.355	10.107	-	7.316	7.213
				High	9.890	10.122	9.281	-	-
	UNII 2C	5500	100	Low	9.191	9.497	8.606	-	-
				Mid	7.692	9.289	-	6.717	6.735
				High	9.192	9.523	8.534	-	-
		5580	116	Low	8.645	8.867	7.976	-	-
				Mid	7.317	8.656	-	6.574	6.466
				High	8.700	8.815	8.027	-	-
		5720	144	Low	8.674	8.717	7.968	-	-
				Mid	7.286	8.499	-	6.643	6.575
				High	8.957	8.852	8.080	-	-
	UNII 3	5745	149	Low	6.149	5.757	5.061	-	-
				Mid	5.449	5.652	-	3.720	3.759
				High	6.273	6.002	5.248	-	-
		5785	157	Low	6.634	6.205	5.517	-	-
				Mid	5.979	6.208	-	4.440	4.254
				High	6.813	6.464	5.860	-	-

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
		5825	165	Low	6.626	6.431	5.702	-	-
				Mid	6.077	6.268	-	4.260	4.244
				High	6.932	6.505	5.969	-	-
	UNII 4	5845	169	Low	9.519	9.326	8.493	-	-
				Mid	7.978	9.035	-	7.126	7.049
				High	9.142	9.325	8.523	-	-
		5865	173	Low	9.265	9.235	8.330	-	-
				Mid	7.863	9.060	-	6.986	6.806
				High	9.362	9.172	8.377	-	-
		5885	177	Low	8.087	8.130	6.998	-	-
				Mid	6.836	7.926	-	5.862	5.628
				High	8.160	8.161	7.128	-	-
Max EIRP PSD (dBm)	UNII 4	5845	169	Low	8.609	8.416	7.583	-	-
				Mid	7.068	8.125	-	6.216	6.139
				High	8.232	8.415	7.613	-	-
		5865	173	Low	8.355	8.325	7.420	-	-
				Mid	6.953	8.150	-	6.076	5.896
				High	8.452	8.262	7.467	-	-
		5885	177	Low	7.177	7.220	6.088	-	-
				Mid	5.926	7.016	-	4.952	4.718
				High	7.250	7.251	6.218	-	-

HE40		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output PSD (dBm)	UNII 1	5190	38	Low	9.100	9.762	8.466	5.628	-	-
				Mid	8.651	9.584	8.318	-	2.956	3.100
				High	8.811	9.675	8.384	5.568	-	-
		5230	46	Low	8.711	9.341	8.033	5.207	-	-
				Mid	8.615	9.087	7.939	-	2.607	2.641
				High	8.843	9.323	8.082	5.173	-	-
	UNII 2A	5270	54	Low	9.388	10.150	8.986	5.941	-	-
				Mid	9.199	9.738	8.934	-	3.360	3.401
				High	9.450	9.902	9.030	5.889	-	-
		5310	62	Low	9.924	10.297	9.363	5.918	-	-
				Mid	9.407	9.909	9.114	-	3.464	3.662
				High	9.717	10.235	9.119	5.950	-	-
	UNII 2C	5510	102	Low	9.212	9.715	8.645	6.140	-	-
				Mid	8.978	9.282	8.435	-	3.181	3.254
				High	9.065	9.545	8.654	6.142	-	-
		5550	110	Low	8.490	8.772	8.146	5.356	-	-
				Mid	8.533	8.801	7.981	-	2.608	2.686
				High	8.801	8.892	8.101	5.430	-	-
		5710	142	Low	8.593	8.708	7.978	5.277	-	-
				Mid	8.402	8.594	7.919	-	2.689	2.592
				High	8.801	8.873	8.128	5.340	-	-
	UNII 3	5755	151	Low	6.146	6.168	5.658	2.579	-	-
				Mid	6.116	6.169	5.502	-	0.333	0.131
				High	6.381	6.488	5.901	2.742	-	-
		5795	159	Low	6.397	6.355	5.746	2.791	-	-
				Mid	6.321	6.445	5.613	-	0.479	0.333
				High	6.641	6.890	5.920	2.958	-	-
	UNII 4	5835	167	Low	8.804	8.934	8.421	5.821	-	-
				Mid	8.905	9.158	8.240	-	3.000	2.986
				High	9.345	9.384	8.561	6.017	-	-
		5875	175	Low	9.089	9.234	8.547	5.911	-	-
				Mid	8.927	9.176	8.433	-	3.245	3.152
				High	9.306	9.334	8.790	6.153	-	-
Max EIRP PSD (dBm)	UNII 4	5835	167	Low	7.894	8.024	7.511	4.911	-	-
				Mid	7.995	8.248	7.330	-	2.090	2.076

				High	8.435	8.474	7.651	5.107	-	-
		5875	175	Low	8.179	8.324	7.637	5.001	-	-
				Mid	8.017	8.266	7.523	-	2.335	2.242
				High	8.396	8.424	7.880	5.243	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1	5210	42	Low	9.271	9.644	8.281	5.719	2.718	-	-
				Mid	7.578	9.356	8.137	5.683	-	-0.236	-1.303
				High	8.901	9.452	8.237	5.564	2.468	-	-
	UNII 2A	5290	58	Low	9.832	10.382	9.378	6.182	3.199	-	-
				Mid	8.230	9.996	8.843	6.062	-	0.330	-0.374
				High	9.619	10.108	9.022	6.106	2.948	-	-
	UNII 2C	5530	106	Low	9.694	9.590	8.796	6.317	3.289	-	-
				Mid	7.807	9.368	8.379	6.127	-	0.316	-0.800
				High	9.358	9.577	8.704	6.331	3.358	-	-
		5610	122	Low	8.850	9.074	8.109	5.602	2.606	-	-
				Mid	7.697	8.858	8.173	5.542	-	-0.179	-1.223
				High	8.875	9.175	8.344	5.676	2.841	-	-
		5690	138	Low	8.816	8.888	7.809	5.413	2.396	-	-
				Mid	7.647	8.879	7.813	5.464	-	-0.384	-1.431
				High	9.110	9.213	8.158	5.595	2.549	-	-
	UNII 3	5775	155	Low	6.574	6.386	5.452	2.732	-0.195	-	-
				Mid	6.027	6.345	5.398	2.815	-	-2.625	-3.666
				High	6.620	6.856	6.032	2.816	-0.197	-	-
	UNII 4	5855	171	Low	9.093	9.323	8.415	5.969	3.050	-	-
				Mid	8.208	9.261	8.513	6.059	-	0.257	-0.794
				High	9.610	9.628	8.800	6.261	3.250	-	-
Max EIRP PSD (dBm)	UNII 4	5855	171	Low	8.183	8.413	7.505	5.059	2.140	-	-
				Mid	7.298	8.351	7.603	5.149	-	-0.653	-1.704
				High	8.700	8.718	7.890	5.351	2.340	-	-

HE160_80L		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1&2A	5250	50	Low	8.347	9.084	7.738	4.528	1.333	-	-
				Mid	7.160	8.849	7.736	4.432	-	-1.585	-
				High	8.267	8.973	7.557	4.208	1.094	-	-
	UNII 2C	5570	114	Low	8.119	8.226	7.568	4.129	1.049	-	-
				Mid	6.704	8.141	7.315	4.101	-	-2.162	-
				High	7.797	8.119	7.200	3.753	0.928	-	-
	UNII 3&4	5815	163	Low	8.030	8.166	7.611	4.014	1.077	-	-
				Mid	7.176	8.599	7.627	4.169	-	-2.005	-
				High	8.384	8.646	7.732	4.187	1.168	-	-
Max EIRP PSD (dBm)	UNII 3&4	5815	163	Low	7.120	7.256	6.701	3.104	0.167	-	-
				Mid	6.266	7.689	6.717	3.259	-	-2.915	-
				High	7.474	7.736	6.822	3.277	0.258	-	-

HE160_80U		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1&2A	5250	50	Low	8.417	9.144	7.504	4.060	0.981	-	-
				Mid	7.175	9.135	7.582	3.967	-	-2.008	-
				High	8.236	9.145	7.594	4.161	1.149	-	-
	UNII 2C	5570	114	Low	7.963	8.165	6.998	3.689	0.898	-	-
				Mid	7.155	8.405	7.383	4.064	-	-2.054	-
				High	8.310	8.633	7.641	4.135	1.036	-	-
	UNII 3&4	5815	163	Low	8.373	8.575	7.880	4.367	1.409	-	-
				Mid	7.705	8.967	8.061	4.507	-	-1.481	-
				High	8.816	8.971	8.042	4.707	1.537	-	-
Max EIRP PSD (dBm)	UNII 3&4	5815	163	Low	7.463	7.665	6.970	3.457	0.499	-	-
				Mid	6.795	8.057	7.151	3.597	-	-2.391	-
				High	7.906	8.061	7.132	3.797	0.627	-	-

HE160_SU		Frequency [MHz]	Channel No.	Max. Power Spectral Density (dBm)
				SU
Max Output PSD (dBm)	UNII 1&2A	5250	50	-5.339
	UNII 2C	5570	114	-5.588
	UNII 3&4	5815	163	-5.310
Max EIRP PSD (dBm)	UNII 3&4	5815	163	-6.220

Limit(UNII 1, 2A, 2C) : 11.0 dBm/MHz

Limit(UNII 3) : 30.0 dBm/500 kHz

Limit(UNII 4) : (EIRP) 14 dBm/MHz

Max EIRP PSD = Power Spectral Density(Sum) + Ant Gain(Directional Gain)

10.6 STRADDLE CHANNEL

10.6.1 26 dB Bandwidth

Test Note:

1. [UNII 2C] 26 dB Bandwidth = 5725 MHz **-** Measured Frequency[MHz]
2. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz
3. # : 26 dB bandwidth is only located in UNII 2C. Therefore 26 dB bandwidth do not overlap.

10.6.1.1 Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26 dB BW (MHz)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	16.24	4.32
				4	14.36	4.48
				7	14.12	4.40
				8	14.16	5.96
			52 T	37	16.28	4.20
				38	14.52	4.68
				39	14.56	4.68
				40	14.44	5.84
			106 T	53	16.16	5.12
				54	14.56	6.28
			242 T	61	16.32	6.20
			SU	-	16.40	6.24

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26 dB BW (MHz)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	34.20	4.04
				16	34.20	4.92
				17	34.28	6.60
			52 T	# 37	-	-
				41	34.28	4.12
				43	34.20	4.36
				44	34.12	6.84
			106 T	# 53	-	-
				# 54	-	-
				55	34.60	4.68
				56	34.36	7.48
			242 T	# 61	-	-
				62	34.84	7.32
			484 T	65	37.72	7.72
			SU	-	37.56	7.24

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26 dB BW (MHz)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	74.04	5.80
				36	74.20	7.88
			52 T	# 37	-	-
				# 45	-	-
				51	74.36	4.68
				52	74.36	8.84
			106 T	# 53	-	-
				# 57	-	-
				59	74.68	4.84
				60	74.20	8.52
			242 T	# 61	-	-
				# 62	-	-
				63	75.48	5.96
				64	75.16	8.84
			484 T	# 65	-	-
				66	75.64	*9.48*
			996 T	67	*79.80*	9.00
			SU	-	79.00	9.16

10.6.1.2 Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26 dB BW (MHz)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	16.24	4.36
				4	14.36	4.56
				7	14.32	4.32
				8	14.12	5.92
			52 T	37	16.28	4.68
				38	14.48	4.60
				39	14.52	4.52
				40	14.44	5.96
			106 T	53	16.00	5.16
				54	14.84	6.44
			242 T	61	16.60	6.44
			SU	-	16.32	6.20

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26 dB BW (MHz)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	34.20	4.12
				16	34.12	4.76
				17	34.12	6.68
			52 T	# 37	-	-
				41	34.12	4.12
				43	34.36	4.12
				44	34.28	7.16
			106 T	# 53	-	-
				# 54	-	-
				55	34.60	4.92
				56	34.68	7.72
			242 T	# 61	-	-
				62	34.76	7.64
			484 T	65	37.48	7.08
			SU	-	35.48	5.40

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26 dB BW (MHz)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	74.04	5.32
				36	74.04	7.08
			52 T	# 37	-	-
				# 45	-	-
				51	74.20	4.84
				52	74.20	9.00
			106 T	# 53	-	-
				# 57	-	-
				59	74.84	4.84
				60	75.00	8.04
			242 T	# 61	-	-
				# 62	-	-
				63	75.00	4.68
				64	74.68	8.68
			484 T	# 65	-	-
				66	74.84	9.64
			996 T	67	78.68	9.64
			SU	-	78.04	9.32

10.6.2 6 dB Bandwidth

Test Note:

1. 6 dB Bandwidth = Measured Frequency[MHz] – 5725 MHz
2. # : 6 dB bandwidth is only located in UNII 2C. Therefore 6 dB bandwidth do not overlap.
3. Limit : > 0.5 MHz

10.6.2.1 Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE20	5720	144	26 T	# 0	-
				# 4	-
				7	2.48
				8	4.52
			52 T	# 37	-
				# 38	-
				39	2.56
				40	4.52
			106 T	# 53	-
				54	4.60
			242 T	61	4.56
			SU	-	4.56

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE40	5710	142	26 T	# 0	-
				# 9	-
				16	2.04
				17	4.12
			52 T	# 37	-
				# 41	-
				# 43	-
				44	4.12
			106 T	# 53	-
				# 54	-
				55	2.60
				56	4.04
			242 T	# 61	-
				62	4.20
			484 T	65	4.12
			SU	-	4.12

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE80	5690	138	26 T	# 0	-
				# 18	-
				35	2.12
				36	4.20
			52 T	# 37	-
				# 45	-
				# 51	-
				52	4.20
			106 T	# 53	-
				# 57	-
				# 59	-
				60	4.20
			242 T	# 61	-
				# 62	-
				63	2.60
				64	4.20
			484 T	# 65	-
				66	4.20
			996 T	67	4.20
			SU	-	4.20

10.6.2.2 Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE20	5720	144	26 T	# 0	-
				# 4	-
				7	2.52
				8	4.52
			52 T	# 37	-
				# 38	-
				39	2.56
				40	4.52
			106 T	# 53	-
				54	4.60
			242 T	61	4.56
			SU	-	4.56

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE40	5710	142	26 T	# 0	-
				# 9	-
				16	2.04
				17	4.12
			52 T	# 37	-
				# 41	-
				# 43	-
				44	4.12
			106 T	# 53	-
				# 54	-
				55	2.60
				56	4.12
			242 T	# 61	-
				62	4.20
			484 T	65	4.12
			SU	-	4.04

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE80	5690	138	26 T	# 0	-
				# 18	-
				35	2.12
				36	4.20
			52 T	# 37	-
				# 45	-
				# 51	-
				52	4.20
			106 T	# 53	-
				# 57	-
				# 59	-
				60	4.20
			242 T	# 61	-
				# 62	-
				63	2.76
				64	4.20
			484 T	# 65	-
				66	4.36
			996 T	67	4.20
			SU	-	4.20

10.6.3 Output Power

Test Note:

1. # : 26 dB bandwidth is only located in UNII 2C. Therefore 26 dB bandwidth do not overlap.
2. Limit(2C) : 23.98 dBm or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)
3. Limit(UNII 3) : 30.00 dBm

10.6.3.1 Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	8.07	-19.94
				4	7.57	-19.89
				7	-8.04	7.83
				8	-14.09	8.03
			52 T	37	10.73	-17.87
				38	10.52	-17.40
				39	10.10	0.59
				40	-7.11	10.73
			106 T	53	12.82	-16.00
				54	9.23	10.31
			242 T	61	13.93	9.11
			SU	-	13.88	9.06

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	7.90	-23.25
				16	-1.60	7.55
				17	-13.95	8.04
			52 T	# 37	-	-
				41	10.72	-21.21
				43	10.88	-5.70
				44	-1.41	10.65
			106 T	# 53	-	-
				# 54	-	-
				55	12.80	-19.22
				56	10.12	9.79
			242 T	# 61	-	-
				62	12.99	7.47
			484 T	65	13.63	4.51
			SU	-	13.64	4.50

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	1.12	7.99
				36	-12.76	8.46
			52 T	# 37	-	-
				# 45	-	-
				51	11.49	-5.32
				52	-0.59	11.09
			106 T	# 53	-	-
				# 57	-	-
				59	13.31	-20.99
				60	10.55	9.97
			242 T	# 61	-	-
				# 62	-	-
				63	14.57	-19.71
				64	13.39	7.60
			484 T	# 65	-	-
				66	14.07	4.74
			996 T	67	14.37	1.63
			SU	-	13.04	0.30

10.6.3.2 Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	8.26	-20.58
				4	7.81	-20.99
				7	-7.77	8.11
				8	-13.58	8.30
			52 T	37	10.99	-16.23
				38	10.77	-17.56
				39	10.37	0.80
				40	-6.84	10.98
			106 T	53	13.34	-14.34
				54	9.82	10.91
			242 T	61	13.93	9.18
			SU	-	13.97	9.20

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	8.05	-23.73
				16	-1.35	7.86
				17	-13.65	8.32
			52 T	# 37	-	-
				41	10.99	-20.58
				43	11.09	-5.31
				44	-1.26	10.97
			106 T	# 53	-	-
				# 54	-	-
				55	13.38	-17.35
				56	10.73	10.45
			242 T	# 61	-	-
				62	14.19	8.73
			484 T	65	13.93	4.95
			SU	-	13.77	3.77

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	0.96	7.94
				36	-13.01	8.39
			52 T	# 37	-	-
				# 45	-	-
				51	11.43	-5.22
				52	-0.79	11.08
			106 T	# 53	-	-
				# 57	-	-
				59	13.51	-19.92
				60	10.76	10.27
			242 T	# 61	-	-
				# 62	-	-
				63	15.24	-18.50
				64	14.18	8.15
			484 T	# 65	-	-
				66	13.92	4.68
			996 T	67	14.05	1.58
			SU	-	13.05	0.60

10.6.4 Power Spectral Density

Test Note: Limit(UNII 3) : 30.0 dBm/500 kHz

10.6.4.1 Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	5.513	-23.971
				4	4.032	-24.750
				7	-3.614	2.553
				8	-17.069	2.811
			52 T	37	5.318	-20.881
				38	5.244	-19.428
				39	5.300	1.767
				40	-3.453	2.536
			106 T	53	4.375	-16.324
				54	4.205	1.541
			242 T	61	3.449	0.463
			SU	-	3.224	0.171

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	5.172	-24.654
				16	2.275	2.775
				17	-20.738	2.902
			52 T	# 37	-	-
				41	5.289	-24.744
				43	5.575	-8.303
				44	1.561	2.577
			106 T	# 53	-	-
				# 54	-	-
				55	4.323	-22.477
				56	4.549	1.372
			242 T	# 61	-	-
				62	2.138	-0.787
			484 T	65	-0.860	-3.654
			SU	-	-0.721	-3.728

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	1.939	3.147
				36	-22.163	3.241
			52 T	# 37	-	-
				# 45	-	-
				51	5.897	-9.328
				52	2.080	3.019
			106 T	# 53	-	-
				# 57	-	-
				59	4.721	-21.882
				60	4.729	1.972
			242 T	# 61	-	-
				# 62	-	-
				63	2.504	-26.589
				64	2.586	-0.438
			484 T	# 65	-	-
				66	-0.373	-3.349
			996 T	67	-3.389	-6.543
			SU	-	-4.783	-7.773

10.6.4.2 Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	5.565	-23.957
				4	4.333	-25.611
				7	-3.100	2.673
				8	-19.531	2.967
			52 T	37	5.490	-20.900
				38	5.519	-20.111
				39	5.340	1.696
				40	-3.439	2.917
			106 T	53	4.913	-16.457
				54	4.908	2.330
			242 T	61	3.269	0.507
			SU	-	3.276	0.431

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	5.306	-25.617
				16	2.251	2.991
				17	-20.613	3.173
			52 T	# 37	-	-
				41	5.509	-22.805
				43	5.930	-8.637
				44	2.298	3.005
			106 T	# 53	-	-
				# 54	-	-
				55	4.837	-23.618
				56	5.057	2.295
			242 T	# 61	-	-
				62	3.180	0.388
			484 T	65	-0.536	-3.269
			SU	-	-0.218	-4.220

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	1.593	2.983
				36	-23.942	3.207
			52 T	# 37	-	-
				# 45	-	-
				51	5.968	-9.392
				52	1.728	3.081
			106 T	# 53	-	-
				# 57	-	-
				59	4.954	-26.449
				60	4.878	2.088
			242 T	# 61	-	-
				# 62	-	-
				63	3.225	-24.841
				64	3.611	0.629
			484 T	# 65	-	-
				66	-0.658	-3.543
			996 T	67	-3.681	-6.456
			SU	-	-4.599	-7.715

10.7RADIATED SPURIOUS EMISSIONS (9 kHz – 1 GHz)

Frequency Range : 9 kHz – 30 MHz

Frequency	Measured Value	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. The Measured Level 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	ANT. 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

10.8 RADIATED SPURIOUS EMISSIONS (Above 1 GHz)

10.8.1 802.11ax(HE20)

1) SU_MIMO

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10360	65.96	-0.94	V	65.02	68.20	3.18	PK
15540	51.17	1.57	V	52.74	73.98	21.24	PK
15540	38.68	1.57	V	40.25	53.98	13.73	AV
10360	58.55	-0.94	H	57.61	68.20	10.59	PK
15540	50.57	1.57	H	52.14	73.98	21.84	PK
15540	38.52	1.57	H	40.09	53.98	13.89	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10400	64.33	-0.07	V	64.26	68.20	3.94	PK
15600	51.37	1.52	V	52.89	73.98	21.09	PK
15600	38.38	1.52	V	39.90	53.98	14.08	AV
10400	54.71	-0.07	H	54.64	68.20	13.56	PK
15600	51.87	1.52	H	53.39	73.98	20.59	PK
15600	38.19	1.52	H	39.71	53.98	14.27	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10480	63.05	-0.97	V	62.08	68.20	6.12	PK
15720	51.00	0.64	V	51.64	73.98	22.34	PK
15720	38.70	0.64	V	39.34	53.98	14.64	AV
10480	55.57	-0.97	H	54.60	68.20	13.60	PK
15720	51.54	0.64	H	52.18	73.98	21.80	PK
15720	38.56	0.64	H	39.20	53.98	14.78	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10520	63.88	-1.06	V	62.83	68.20	5.38	PK
15780	51.27	0.59	V	51.86	73.98	22.12	PK
15780	39.07	0.59	V	39.66	53.98	14.32	AV
10520	56.51	-1.06	H	55.46	68.20	12.75	PK
15780	51.71	0.59	H	52.30	73.98	21.68	PK
15780	39.02	0.59	H	39.61	53.98	14.37	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10600	60.75	-0.61	V	60.14	73.98	13.84	PK
10600	46.75	-0.61	V	46.14	53.98	7.84	AV
15900	52.03	0.25	V	52.28	73.98	21.70	PK
15900	39.19	0.25	V	39.44	53.98	14.54	AV
10600	54.03	-0.61	H	53.42	73.98	20.56	PK
10600	42.12	-0.61	H	41.51	53.98	12.47	AV
15900	52.39	0.25	H	52.64	73.98	21.34	PK
15900	39.17	0.25	H	39.42	53.98	14.56	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10640	60.95	-0.73	V	60.22	73.98	13.76	PK
10640	47.19	-0.73	V	46.46	53.98	7.52	AV
15960	52.60	0.53	V	53.13	73.98	20.85	PK
15960	39.33	0.53	V	39.86	53.98	14.12	AV
10640	53.61	-0.73	H	52.88	73.98	21.10	PK
10640	41.50	-0.73	H	40.77	53.98	13.21	AV
15960	52.16	0.53	H	52.69	73.98	21.29	PK
15960	39.30	0.53	H	39.83	53.98	14.15	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11000	55.96	-0.18	V	55.78	73.98	18.20	PK
11000	43.20	-0.18	V	43.02	53.98	10.96	AV
16500	51.75	0.60	V	52.35	68.20	15.85	PK
11000	53.56	-0.18	H	53.38	73.98	20.60	PK
11000	40.56	-0.18	H	40.38	53.98	13.60	AV
16500	51.76	0.60	H	52.36	68.20	15.84	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5600 MHz
Channel No.	120 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11200	56.25	-1.01	V	55.24	73.98	18.74	PK
11200	42.37	-1.01	V	41.36	53.98	12.62	AV
16800	51.77	-0.07	V	51.70	68.20	16.50	PK
11200	52.85	-1.01	H	51.84	73.98	22.14	PK
11200	40.48	-1.01	H	39.47	53.98	14.51	AV
16800	51.57	-0.07	H	51.50	68.20	16.70	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11440	54.08	-0.52	V	53.56	73.98	20.42	PK
11440	41.65	-0.52	V	41.13	53.98	12.85	AV
17160	52.00	0.64	V	52.64	68.20	15.56	PK
11440	53.06	-0.52	H	52.54	73.98	21.44	PK
11440	41.00	-0.52	H	40.48	53.98	13.50	AV
17160	51.56	0.64	H	52.20	68.20	16.00	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5745MHz
Channel No.	149 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11490	54.47	-0.38	V	54.09	73.98	19.89	PK
11490	41.85	-0.38	V	41.47	53.98	12.51	AV
17235	51.71	1.04	V	52.75	68.20	15.45	PK
11490	53.11	-0.38	H	52.73	73.98	21.25	PK
11490	40.39	-0.38	H	40.01	53.98	13.97	AV
17235	53.14	1.04	H	54.18	68.20	14.02	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	54.98	-0.29	V	54.69	73.98	19.30	PK
11570	42.94	-0.29	V	42.65	53.98	11.34	AV
17355	52.06	1.14	V	53.20	68.20	15.01	PK
11570	52.68	-0.29	H	52.39	73.98	21.60	PK
11570	40.31	-0.29	H	40.02	53.98	13.97	AV
17355	52.06	1.14	H	53.20	68.20	15.01	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	56.97	-1.16	V	55.81	73.98	18.17	PK
11650	43.34	-1.16	V	42.18	53.98	11.80	AV
17475	51.82	2.16	V	53.98	68.20	14.22	PK
11650	53.34	-1.16	H	52.18	73.98	21.80	PK
11650	40.66	-1.16	H	39.50	53.98	14.48	AV
17475	51.76	2.16	H	53.92	68.20	14.28	PK

Band :	UNII 4
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5845 MHz
Channel No.	169 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11690	55.64	-1.08	V	54.56	73.98	19.42	PK
11690	43.16	-1.08	V	42.08	53.98	11.90	AV
17535	50.97	3.27	V	54.24	68.20	13.96	PK
11690	53.56	-1.08	H	52.48	73.98	21.50	PK
11690	40.39	-1.08	H	39.31	53.98	14.67	AV
17535	50.46	3.27	H	53.73	68.20	14.47	PK

Band :	UNII 4
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5865 MHz
Channel No.	173 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11730	55.90	-1.12	V	54.78	73.98	19.20	PK
11730	42.96	-1.12	V	41.84	53.98	12.14	AV
17595	50.67	3.57	V	54.24	68.20	13.96	PK
11730	52.98	-1.12	H	51.86	73.98	22.12	PK
11730	40.44	-1.12	H	39.32	53.98	14.66	AV
17595	50.65	3.57	H	54.22	68.20	13.98	PK

Band :	UNII 4
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5885 MHz
Channel No.	177 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11770	56.32	-0.63	V	55.69	73.98	18.29	PK
11770	43.49	-0.63	V	42.86	53.98	11.12	AV
17655	51.10	4.14	V	55.24	68.20	12.96	PK
11770	53.03	-0.63	H	52.40	73.98	21.58	PK
11770	40.76	-0.63	H	40.13	53.98	13.85	AV
17655	51.17	4.14	H	55.31	68.20	12.89	PK

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.

10.8.2 802.11ax(HE160)

1) SU_MIMO

Band :	UNII 1&2A
Operation Mode:	802.11ax(HE160)
Transfer MCS Index:	MCS0
Operating Frequency	5250 MHz
Channel No.	50 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10500	53.85	-1.51	V	52.34	68.20	15.86	PK
15750	51.66	0.71	V	52.37	73.98	21.61	PK
15750	40.39	0.71	V	41.10	53.98	12.88	AV
10500	53.41	-1.51	H	51.90	68.20	16.30	PK
15750	51.74	0.71	H	52.45	73.98	21.53	PK
15750	40.62	0.71	H	41.33	53.98	12.65	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE160)
Transfer MCS Index:	MCS0
Operating Frequency	5570 MHz
Channel No.	114 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11140	53.92	-0.74	V	53.18	73.98	20.80	PK
11140	42.19	-0.74	V	41.45	53.98	12.53	AV
16710	52.43	0.36	V	52.79	68.20	15.41	PK
11140	53.17	-0.74	H	52.43	73.98	21.55	PK
11140	42.04	-0.74	H	41.30	53.98	12.68	AV
16710	52.12	0.36	H	52.48	68.20	15.72	PK

Band :	UNII 3&4
Operation Mode:	802.11ax(HE160)
Transfer MCS Index:	MCS0
Operating Frequency	5815 MHz
Channel No.	163 Ch

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11630	53.60	-1.45	V	52.15	73.98	21.83	PK
11630	41.73	-1.45	V	40.28	53.98	13.70	AV
17445	51.87	1.90	V	53.77	68.20	14.43	PK
11630	52.97	-1.45	H	51.52	73.98	22.46	PK
11630	41.85	-1.45	H	40.40	53.98	13.58	AV
17445	51.62	1.90	H	53.52	68.20	14.68	PK

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.

[RSDB]

Worst case : 2.4G ch.1 802.11ax HE20 SU MCS0 Ant all & 5G ch.36 802.11ax HE20 SU MCS0 Ant all

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10360	**61.22**	**-0.94**	**V**	**60.28**	**68.20**	**7.92**	**PK**
15540	51.70	1.57	V	53.27	73.98	20.71	PK
15540	39.24	1.57	V	40.81	53.98	13.17	AV
10360	59.59	-0.94	H	58.65	68.20	9.55	PK
15540	51.25	1.57	H	52.82	73.98	21.16	PK
15540	39.15	1.57	H	40.72	53.98	13.26	AV

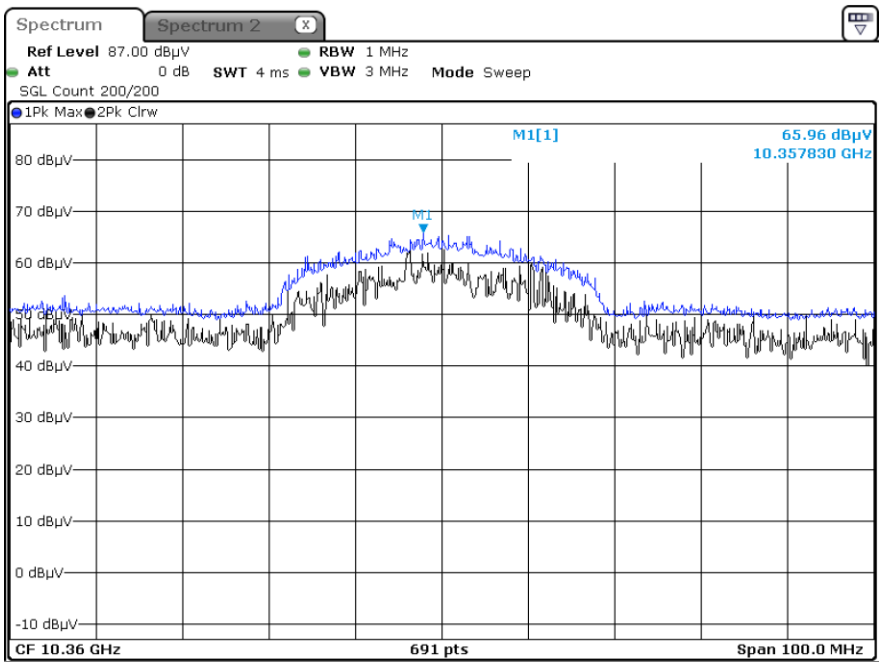
Note :

1. WLAN DTS RSDB Data refer to DTS ax Test Report.

▣ Test Plots

[MIMO]

Radiated Spurious Emissions plot - Peak result (802.11ax HE20_SU, Ch.36 Spurious Emission, X-V)



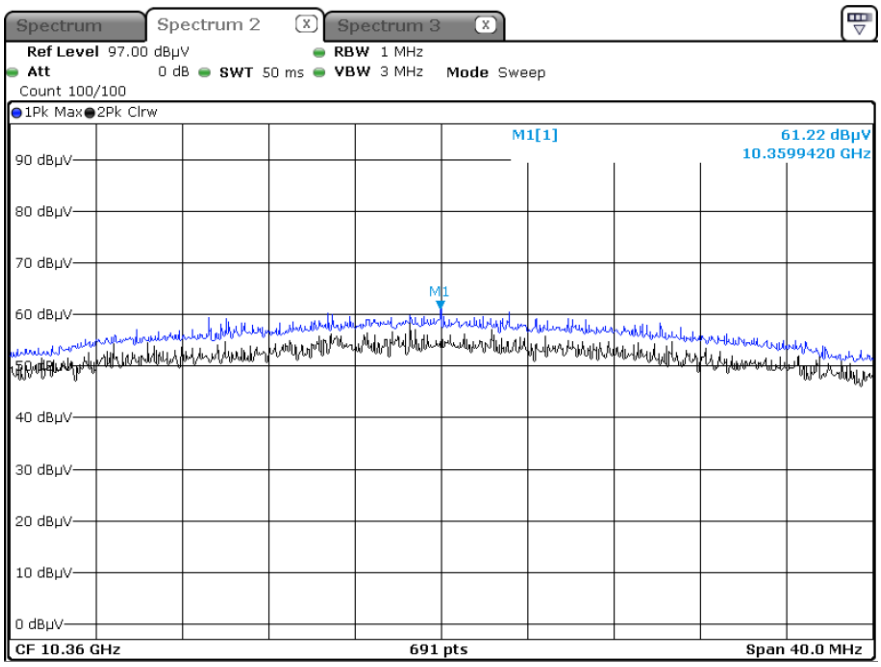
Note:

Only the worst case plots for Radiated Spurious Emissions.

▣ Test Plots(RSDB)

[2.4G ch.1 802.11ax HE20 SU MCS0 Ant all & 5G ch.36 802.11ax HE20 SU MCS0 Ant all]

Radiated Spurious Emissions plot - Peak Result (Worst case _2nd Harmonic, X-V)



10.9 RADIATED RESTRICTED BAND EDGE

10.9.1 MIMO

1) 802.11ax(HE20)

1.1) 26 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	45.72	13.64	H	59.36	73.98	14.62	PK
5150	33.19	13.64	H	46.83	53.98	7.15	AV
5150	45.23	13.64	V	58.87	73.98	15.11	PK
5150	33.05	13.64	V	46.69	53.98	7.29	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch
RU offset.	8

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	45.18	14.22	H	59.40	73.98	14.58	PK
5350	32.85	14.22	H	47.07	53.98	6.91	AV
5350	45.02	14.22	V	59.24	73.98	14.74	PK
5350	32.75	14.22	V	46.97	53.98	7.01	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	41.52	14.69	H	56.21	73.98	17.77	PK
5460	28.78	14.69	H	43.47	53.98	10.51	AV
5470	41.67	15.03	H	56.70	68.20	11.50	PK
5460	41.26	14.69	V	55.95	73.98	18.03	PK
5460	28.69	14.69	V	43.38	53.98	10.60	AV
5470	41.54	15.03	V	56.57	68.20	11.63	PK

1.2) 52 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	51.04	13.64	H	64.68	73.98	9.30	PK
5150	32.97	13.64	H	46.61	53.98	7.37	AV
5150	50.98	13.64	V	64.62	73.98	9.36	PK
5150	32.84	13.64	V	46.48	53.98	7.50	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch
RU offset.	40

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	55.12	14.22	H	69.34	73.98	4.64	PK
5350	32.87	14.22	H	47.09	53.98	6.89	AV
5350	54.86	14.22	V	69.08	73.98	4.90	PK
5350	32.46	14.22	V	46.68	53.98	7.30	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	41.78	14.69	H	56.47	73.98	17.51	PK
5460	29.18	14.69	H	43.87	53.98	10.11	AV
5470	45.68	15.03	H	60.71	68.20	7.49	PK
5460	41.64	14.69	V	56.33	73.98	17.65	PK
5460	29.05	14.69	V	43.74	53.98	10.24	AV
5470	45.21	15.03	V	60.24	68.20	7.96	PK

1.3) 106 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	49.80	13.64	H	63.44	73.98	10.54	PK
5150	33.09	13.64	H	46.73	53.98	7.25	AV
5150	49.12	13.64	V	62.76	73.98	11.22	PK
5150	33.04	13.64	V	46.68	53.98	7.30	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch
RU offset.	54

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	53.97	14.22	H	68.19	73.98	5.79	PK
5350	32.86	14.22	H	47.08	53.98	6.90	AV
5350	53.12	14.22	V	67.34	73.98	6.64	PK
5350	32.75	14.22	V	46.97	53.98	7.01	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	43.98	14.69	H	58.67	73.98	15.31	PK
5460	28.92	14.69	H	43.61	53.98	10.37	AV
5470	48.26	15.03	H	63.29	68.20	4.91	PK
5460	43.26	14.69	V	57.95	73.98	16.03	PK
5460	28.54	14.69	V	43.23	53.98	10.75	AV
5470	48.05	15.03	V	63.08	68.20	5.12	PK

1.4) 242 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	53.84	13.64	H	67.48	73.98	6.50	PK
5150	34.06	13.64	H	47.7	53.98	6.28	AV
5150	53.46	13.64	V	67.1	73.98	6.88	PK
5150	33.59	13.64	V	47.23	53.98	6.75	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	55.17	14.22	H	69.39	73.98	4.59	PK
5350	33.59	14.22	H	47.81	53.98	6.17	AV
5350	55.05	14.22	V	69.27	73.98	4.71	PK
5350	33.45	14.22	V	47.67	53.98	6.31	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	41.16	14.69	H	55.85	73.98	18.13	PK
5460	28.51	14.69	H	43.20	53.98	10.78	AV
5470	41.36	15.03	H	56.39	68.20	11.81	PK
5460	41.05	14.69	V	55.74	73.98	18.24	PK
5460	28.43	14.69	V	43.12	53.98	10.86	AV
5470	41.22	15.03	V	56.25	68.20	11.95	PK

1.5) SU

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	52.73	13.64	H	66.37	73.98	7.61	PK
5150	34.07	13.64	H	47.71	53.98	6.27	AV
5150	51.86	13.64	V	65.5	73.98	8.48	PK
5150	33.86	13.64	V	47.5	53.98	6.48	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	52.33	14.22	H	66.55	73.98	7.43	PK
5350	33.56	14.22	H	47.78	53.98	6.20	AV
5350	52.10	14.22	V	66.32	73.98	7.66	PK
5350	33.21	14.22	V	47.43	53.98	6.55	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	41.16	14.69	H	55.85	73.98	18.13	PK
5460	28.88	14.69	H	43.57	53.98	10.41	AV
5470	43.34	15.03	H	58.37	68.20	9.83	PK
5460	41.05	14.69	V	55.74	73.98	18.24	PK
5460	28.76	14.69	V	43.45	53.98	10.53	AV
5470	43.18	15.03	V	58.21	68.20	9.99	PK

2) 802.11ax(HE40)

2.1) 26 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	43.00	13.64	H	56.64	73.98	17.34	PK
5150	31.49	13.64	H	45.13	53.98	8.85	AV
5150	42.86	13.64	V	56.50	73.98	17.48	PK
5150	31.26	13.64	V	44.90	53.98	9.08	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	17

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	40.73	14.22	H	54.95	73.98	19.03	PK
5350	29.73	14.22	H	43.95	53.98	10.03	AV
5350	40.39	14.22	V	54.61	73.98	19.37	PK
5350	29.59	14.22	V	43.81	53.98	10.17	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	41.22	14.69	H	55.91	73.98	18.07	PK
5460	29.59	14.69	H	44.28	53.98	9.70	AV
5470	41.57	15.03	H	56.6	68.20	11.60	PK
5460	41.09	14.69	V	55.78	73.98	18.20	PK
5460	29.44	14.69	V	44.13	53.98	9.85	AV
5470	41.43	15.03	V	56.46	68.20	11.74	PK

2.2) 52 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	43.38	13.64	H	57.02	73.98	16.96	PK
5150	31.49	13.64	H	45.13	53.98	8.85	AV
5150	43.21	13.64	V	56.85	73.98	17.13	PK
5150	31.28	13.64	V	44.92	53.98	9.06	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	44

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	57.44	14.22	H	71.66	73.98	2.32	PK
5350	34.95	14.22	H	49.17	53.98	4.81	AV
5350	56.12	14.22	V	70.34	73.98	3.64	PK
5350	34.55	14.22	V	48.77	53.98	5.21	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	49.23	14.69	H	63.92	73.98	10.06	PK
5460	31.32	14.69	H	46.01	53.98	7.97	AV
5470	48.27	15.03	H	63.3	68.20	4.90	PK
5460	48.86	14.69	V	63.55	73.98	10.43	PK
5460	31.18	14.69	V	45.87	53.98	8.11	AV
5470	48.10	15.03	V	63.13	68.20	5.07	PK

2.3) 106 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	56.72	13.64	H	70.36	73.98	3.62	PK
5150	32.26	13.64	H	45.9	53.98	8.08	AV
5150	55.94	13.64	V	69.58	73.98	4.40	PK
5150	32.12	13.64	V	45.76	53.98	8.22	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	56

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	53.04	14.22	H	67.26	73.98	6.72	PK
5350	33.74	14.22	H	47.96	53.98	6.02	AV
5350	52.90	14.22	V	67.12	73.98	6.86	PK
5350	32.96	14.22	V	47.18	53.98	6.80	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	48.06	14.69	H	62.75	73.98	11.23	PK
5460	29.83	14.69	H	44.52	53.98	9.46	AV
5470	48.58	15.03	H	63.61	68.20	4.59	PK
5460	47.95	14.69	V	62.64	73.98	11.34	PK
5460	29.55	14.69	V	44.24	53.98	9.74	AV
5470	48.39	15.03	V	63.42	68.20	4.78	PK

2.4) 242 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	56.19	13.64	H	69.83	73.98	4.15	PK
5150	32.44	13.64	H	46.08	53.98	7.90	AV
5150	55.84	13.64	V	69.48	73.98	4.50	PK
5150	32.16	13.64	V	45.8	53.98	8.18	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	62

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	48.60	14.22	H	62.82	73.98	11.16	PK
5350	33.39	14.22	H	47.61	53.98	6.37	AV
5350	48.37	14.22	V	62.59	73.98	11.39	PK
5350	33.18	14.22	V	47.4	53.98	6.58	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	48.57	14.69	H	63.26	73.98	10.72	PK
5460	29.97	14.69	H	44.66	53.98	9.32	AV
5470	50.53	15.03	H	65.56	68.20	2.64	PK
5460	48.38	14.69	V	63.07	73.98	10.91	PK
5460	29.76	14.69	V	44.45	53.98	9.53	AV
5470	50.11	15.03	V	65.14	68.20	3.06	PK

2.5) 484 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	53.49	13.64	H	67.13	73.98	6.85	PK
5150	32.91	13.64	H	46.55	53.98	7.43	AV
5150	53.12	13.64	V	66.76	73.98	7.22	PK
5150	32.28	13.64	V	45.92	53.98	8.06	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	53.37	14.22	H	67.59	73.98	6.39	PK
5350	33.04	14.22	H	47.26	53.98	6.72	AV
5350	53.12	14.22	V	67.34	73.98	6.64	PK
5350	32.86	14.22	V	47.08	53.98	6.90	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	49.23	14.69	H	63.92	73.98	10.06	PK
5460	30.18	14.69	H	44.87	53.98	9.11	AV
5470	50.25	15.03	H	65.28	68.20	2.92	PK
5460	48.66	14.69	V	63.35	73.98	10.63	PK
5460	30.05	14.69	V	44.74	53.98	9.24	AV
5470	49.86	15.03	V	64.89	68.20	3.31	PK

2.6) SU

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	51.30	13.64	H	64.94	73.98	9.04	PK
5150	34.08	13.64	H	47.72	53.98	6.26	AV
5150	51.05	13.64	V	64.69	73.98	9.29	PK
5150	33.84	13.64	V	47.48	53.98	6.50	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	56.10	14.22	H	70.32	73.98	3.66	PK
5350	36.13	14.22	H	50.35	53.98	3.63	AV
5350	55.78	14.22	V	70	73.98	3.98	PK
5350	35.86	14.22	V	50.08	53.98	3.90	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	44.89	14.69	H	59.58	73.98	14.40	PK
5460	32.37	14.69	H	47.06	53.98	6.92	AV
5470	44.42	15.03	H	59.45	68.20	8.75	PK
5460	44.18	14.69	V	58.87	73.98	15.11	PK
5460	32.15	14.69	V	46.84	53.98	7.14	AV
5470	44.21	15.03	V	59.24	68.20	8.96	PK

3) 802.11ax(HE80)

3.1) 26 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	43.37	13.64	H	57.01	73.98	16.97	PK
5150	32.40	13.64	H	46.04	53.98	7.94	AV
5150	42.85	13.64	V	56.49	73.98	17.49	PK
5150	31.65	13.64	V	45.29	53.98	8.69	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	36

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	41.88	14.22	H	56.10	73.98	17.88	PK
5350	30.04	14.22	H	44.26	53.98	9.72	AV
5350	41.76	14.22	V	55.98	73.98	18.00	PK
5350	29.86	14.22	V	44.08	53.98	9.90	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	41.82	14.69	H	56.51	73.98	17.47	PK
5460	30.09	14.69	H	44.78	53.98	9.20	AV
5470	42.44	15.03	H	57.47	68.20	10.73	PK
5460	41.75	14.69	V	56.44	73.98	17.54	PK
5460	29.96	14.69	V	44.65	53.98	9.33	AV
5470	42.15	15.03	V	57.18	68.20	11.02	PK

3.2) 52 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	50.45	13.64	H	64.09	73.98	9.89	PK
5150	32.34	13.64	H	45.98	53.98	8.00	AV
5150	49.95	13.64	V	63.59	73.98	10.39	PK
5150	32.15	13.64	V	45.79	53.98	8.19	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	52

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	44.36	14.22	H	58.58	73.98	15.40	PK
5350	30.58	14.22	H	44.80	53.98	9.18	AV
5350	44.12	14.22	V	58.34	73.98	15.64	PK
5350	30.39	14.22	V	44.61	53.98	9.37	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	55.51	14.69	H	70.20	73.98	3.78	PK
5460	32.11	14.69	H	46.80	53.98	7.18	AV
5470	50.10	15.03	H	65.13	68.20	3.07	PK
5460	54.86	14.69	V	69.55	73.98	4.43	PK
5460	31.98	14.69	V	46.67	53.98	7.31	AV
5470	49.68	15.03	V	64.71	68.20	3.49	PK

3.3) 106 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	51.56	13.64	H	65.20	73.98	8.78	PK
5150	32.31	13.64	H	45.95	53.98	8.03	AV
5150	51.43	13.64	V	65.07	73.98	8.91	PK
5150	31.95	13.64	V	45.59	53.98	8.39	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	60

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	54.72	14.22	H	68.94	73.98	5.04	PK
5350	33.48	14.22	H	47.70	53.98	6.28	AV
5350	54.39	14.22	V	68.61	73.98	5.37	PK
5350	32.86	14.22	V	47.08	53.98	6.90	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	45.69	14.69	H	60.38	73.98	13.60	PK
5460	31.29	14.69	H	45.98	53.98	8.00	AV
5470	49.44	15.03	H	64.47	68.20	3.73	PK
5460	44.88	14.69	V	59.57	73.98	14.41	PK
5460	31.15	14.69	V	45.84	53.98	8.14	AV
5470	48.39	15.03	V	63.42	68.20	4.78	PK

3.4) 242 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	55.89	13.64	H	69.53	73.98	4.45	PK
5150	34.26	13.64	H	47.90	53.98	6.08	AV
5150	54.79	13.64	V	68.43	73.98	5.55	PK
5150	33.86	13.64	V	47.50	53.98	6.48	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	64

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	48.66	14.22	H	62.88	73.98	11.10	PK
5350	30.20	14.22	H	44.42	53.98	9.56	AV
5350	48.58	14.22	V	62.80	73.98	11.18	PK
5350	29.71	14.22	V	43.93	53.98	10.05	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	49.09	14.69	H	63.78	73.98	10.20	PK
5460	31.64	14.69	H	46.33	53.98	7.65	AV
5470	50.24	15.03	H	65.27	68.20	2.93	PK
5460	48.89	14.69	V	63.58	73.98	10.40	PK
5460	31.54	14.69	V	46.23	53.98	7.75	AV
5470	49.57	15.03	V	64.60	68.20	3.60	PK

3.5) 484 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	51.44	13.64	H	65.08	73.98	8.90	PK
5150	32.58	13.64	H	46.22	53.98	7.76	AV
5150	51.35	13.64	V	64.99	73.98	8.99	PK
5150	31.83	13.64	V	45.47	53.98	8.51	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	66

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	57.11	14.22	H	71.33	73.98	2.65	PK
5350	34.02	14.22	H	48.24	53.98	5.74	AV
5350	56.18	14.22	V	70.4	73.98	3.58	PK
5350	33.75	14.22	V	47.97	53.98	6.01	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	47.05	14.69	H	61.74	73.98	12.24	PK
5460	31.02	14.69	H	45.71	53.98	8.27	AV
5470	43.67	15.03	H	58.70	68.20	9.50	PK
5460	46.84	14.69	V	61.53	73.98	12.45	PK
5460	30.98	14.69	V	45.67	53.98	8.31	AV
5470	42.98	15.03	V	58.01	68.20	10.19	PK

3.6) 996 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	67

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	56.78	13.64	H	70.42	73.98	3.56	PK
5150	34.44	13.64	H	48.08	53.98	5.90	AV
5150	55.76	13.64	V	69.40	73.98	4.58	PK
5150	34.13	13.64	V	47.77	53.98	6.21	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	67

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	51.20	14.22	H	65.42	73.98	8.56	PK
5350	30.88	14.22	H	45.10	53.98	8.88	AV
5350	50.86	14.22	V	65.08	73.98	8.90	PK
5350	30.48	14.22	V	44.70	53.98	9.28	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	67

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	47.14	14.69	H	61.83	73.98	12.15	PK
5460	31.67	14.69	H	46.36	53.98	7.62	AV
5470	49.20	15.03	H	64.23	68.20	3.97	PK
5460	46.96	14.69	V	61.65	73.98	12.33	PK
5460	31.55	14.69	V	46.24	53.98	7.74	AV
5470	48.96	15.03	V	63.99	68.20	4.21	PK

3.7) SU

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	52.29	13.64	H	65.93	73.98	8.05	PK
5150	37.67	13.64	H	51.31	53.98	2.67	AV
5150	52.13	13.64	V	65.77	73.98	8.21	PK
5150	36.77	13.64	V	50.41	53.98	3.57	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	43.76	14.22	H	57.98	73.98	16.00	PK
5350	30.97	14.22	H	45.19	53.98	8.79	AV
5350	42.84	14.22	V	57.06	73.98	16.92	PK
5350	30.54	14.22	V	44.76	53.98	9.22	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	48.08	14.69	H	62.77	73.98	11.21	PK
5460	35.26	14.69	H	49.95	53.98	4.03	AV
5470	50.13	15.03	H	65.16	68.20	3.04	PK
5460	47.95	14.69	V	62.64	73.98	11.34	PK
5460	34.86	14.69	V	49.55	53.98	4.43	AV
5470	49.32	15.03	V	64.35	68.20	3.85	PK

4) 802.11ax(HE160)

4.1) 26 Tone

Band :	UNII 1
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	50 Ch Lower
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	42.96	13.64	H	56.60	73.98	17.38	PK
5150	30.98	13.64	H	44.62	53.98	9.36	AV
5150	42.15	13.64	V	55.79	73.98	18.19	PK
5150	30.74	13.64	V	44.38	53.98	9.60	AV

Band :	UNII 2A
Operation Mode:	802.11ax_HE160(80U)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	50 Ch Upper
RU offset.	36

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	43.31	14.22	H	57.53	73.98	16.45	PK
5350	31.32	14.22	H	45.54	53.98	8.44	AV
5350	42.88	14.22	V	57.1	73.98	16.88	PK
5350	31.05	14.22	V	45.27	53.98	8.71	AV

Band :	UNII 2C
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	114 Ch Lower
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	42.77	14.69	H	57.46	73.98	16.52	PK
5460	29.51	14.69	H	44.20	53.98	9.78	AV
5470	41.72	15.03	H	56.75	68.20	11.45	PK
5460	42.65	14.69	V	57.34	73.98	16.64	PK
5460	29.36	14.69	V	44.05	53.98	9.93	AV
5470	41.69	15.03	V	56.72	68.20	11.48	PK

4.2) 52 Tone

Band :	UNII 1
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	50 Ch Lower
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	53.70	13.64	H	67.34	73.98	6.64	PK
5150	30.99	13.64	H	44.63	53.98	9.35	AV
5150	53.11	13.64	V	66.75	73.98	7.23	PK
5150	30.58	13.64	V	44.22	53.98	9.76	AV

Band :	UNII 2A
Operation Mode:	802.11ax_HE160(80U)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	50 Ch Upper
RU offset.	52

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	52.75	14.22	H	66.97	73.98	7.01	PK
5350	34.39	14.22	H	48.61	53.98	5.37	AV
5350	51.98	14.22	V	66.2	73.98	7.78	PK
5350	33.84	14.22	V	48.06	53.98	5.92	AV

Band :	UNII 2C
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	114 Ch Lower
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	47.55	14.69	H	62.24	73.98	11.74	PK
5460	33.62	14.69	H	48.31	53.98	5.67	AV
5470	42.48	15.03	H	57.51	68.20	10.69	PK
5460	47.28	14.69	V	61.97	73.98	12.01	PK
5460	32.46	14.69	V	47.15	53.98	6.83	AV
5470	41.85	15.03	V	56.88	68.20	11.32	PK

4.3) 106 Tone

Band :	UNII 1
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	50 Ch Lower
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	53.96	13.64	H	67.60	73.98	6.38	PK
5150	35.33	13.64	H	48.97	53.98	5.01	AV
5150	52.94	13.64	V	66.58	73.98	7.40	PK
5150	34.95	13.64	V	48.59	53.98	5.39	AV

Band :	UNII 2A
Operation Mode:	802.11ax_HE160(80U)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	50 Ch Upper
RU offset.	60

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	51.71	14.22	H	65.93	73.98	8.05	PK
5350	35.36	14.22	H	49.58	53.98	4.40	AV
5350	50.88	14.22	V	65.1	73.98	8.88	PK
5350	34.84	14.22	V	49.06	53.98	4.92	AV

Band :	UNII 2C
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	114 Ch Lower
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	52.61	14.69	H	67.30	73.98	6.68	PK
5460	35.18	14.69	H	49.87	53.98	4.11	AV
5470	50.22	15.03	H	65.25	68.20	2.95	PK
5460	51.95	14.69	V	66.64	73.98	7.34	PK
5460	34.79	14.69	V	49.48	53.98	4.50	AV
5470	49.87	15.03	V	64.9	68.20	3.30	PK

4.4) 242 Tone

Band :	UNII 1
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	50 Ch Lower
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	53.47	13.64	H	67.11	73.98	6.87	PK
5150	35.22	13.64	H	48.86	53.98	5.12	AV
5150	52.74	13.64	V	66.38	73.98	7.60	PK
5150	34.86	13.64	V	48.5	53.98	5.48	AV

Band :	UNII 2A
Operation Mode:	802.11ax_HE160(80U)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	50 Ch Upper
RU offset.	64

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	55.38	14.22	H	69.60	73.98	4.38	PK
5350	35.01	14.22	H	49.23	53.98	4.75	AV
5350	54.95	14.22	V	69.17	73.98	4.81	PK
5350	34.86	14.22	V	49.08	53.98	4.90	AV

Band :	UNII 2C
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	114 Ch Lower
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	53.62	14.69	H	68.31	73.98	5.67	PK
5460	35.52	14.69	H	50.21	53.98	3.77	AV
5470	50.54	15.03	H	65.57	68.20	2.63	PK
5460	52.96	14.69	V	67.65	73.98	6.33	PK
5460	34.86	14.69	V	49.55	53.98	4.43	AV
5470	49.69	15.03	V	64.72	68.20	3.48	PK

4.5) 484 Tone

Band :	UNII 1
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	50 Ch Lower
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	52.26	13.64	H	65.90	73.98	8.08	PK
5150	33.97	13.64	H	47.61	53.98	6.37	AV
5150	51.89	13.64	V	65.53	73.98	8.45	PK
5150	32.96	13.64	V	46.60	53.98	7.38	AV

Band :	UNII 2A
Operation Mode:	802.11ax_HE160(80U)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	50 Ch Upper
RU offset.	66

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	52.40	14.22	H	66.62	73.98	7.36	PK
5350	34.78	14.22	H	49.00	53.98	4.98	AV
5350	51.88	14.22	V	66.10	73.98	7.88	PK
5350	33.86	14.22	V	48.08	53.98	5.90	AV

Band :	UNII 2C
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	114 Ch Lower
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	54.44	14.69	H	69.13	73.98	4.85	PK
5460	34.55	14.69	H	49.24	53.98	4.74	AV
5470	49.82	15.03	H	64.85	68.20	3.35	PK
5460	53.98	14.69	V	68.67	73.98	5.31	PK
5460	33.96	14.69	V	48.65	53.98	5.33	AV
5470	49.75	15.03	V	64.78	68.20	3.42	PK

4.6) 996 Tone

Band :	UNII 1
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	50 Ch Lower
RU offset.	67

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	56.95	13.64	H	70.59	73.98	3.39	PK
5150	33.25	13.64	H	46.89	53.98	7.09	AV
5150	55.76	13.64	V	69.4	73.98	4.58	PK
5150	32.86	13.64	V	46.5	53.98	7.48	AV

Band :	UNII 2A
Operation Mode:	802.11ax_HE160(80U)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	50 Ch Upper
RU offset.	67

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	53.56	14.22	H	67.78	73.98	6.20	PK
5350	35.28	14.22	H	49.50	53.98	4.48	AV
5350	52.96	14.22	V	67.18	73.98	6.80	PK
5350	34.96	14.22	V	49.18	53.98	4.80	AV

Band :	UNII 2C
Operation Mode:	802.11ax_HE160(80L)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	114 Ch Lower
RU offset.	67

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	52.41	14.69	H	67.10	73.98	6.88	PK
5460	34.12	14.69	H	48.81	53.98	5.17	AV
5470	50.12	15.03	H	65.15	68.20	3.05	PK
5460	**51.69**	**14.69**	**V**	**66.38**	**73.98**	**7.60**	**PK**
5460	**33.75**	**14.69**	**V**	**48.44**	**53.98**	**5.54**	**AV**
5470	**49.84**	**15.03**	**V**	**64.87**	**68.20**	**3.33**	**PK**

4.7) SU

Band :	UNII 1
Operation Mode:	802.11ax(HE160)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	50 Ch Lower

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	42.95	13.64	H	56.59	73.98	17.39	PK
5150	34.06	13.64	H	47.70	53.98	6.28	AV
5150	41.98	13.64	V	55.62	73.98	18.36	PK
5150	33.86	13.64	V	47.5	53.98	6.48	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE160)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	50 Ch Upper

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	47.67	14.22	H	61.89	73.98	12.09	PK
5350	35.90	14.22	H	50.12	53.98	3.86	AV
5350	47.51	14.22	V	61.73	73.98	12.25	PK
5350	34.86	14.22	V	49.08	53.98	4.90	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE160)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	114 Ch Lower

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	45.67	14.69	H	60.36	73.98	13.62	PK
5460	32.66	14.69	H	47.35	53.98	6.63	AV
5470	44.04	15.03	H	59.07	68.20	9.13	PK
5460	45.11	14.69	V	59.80	73.98	14.18	PK
5460	31.98	14.69	V	46.67	53.98	7.31	AV
5470	43.86	15.03	V	58.89	68.20	9.31	PK

Note:

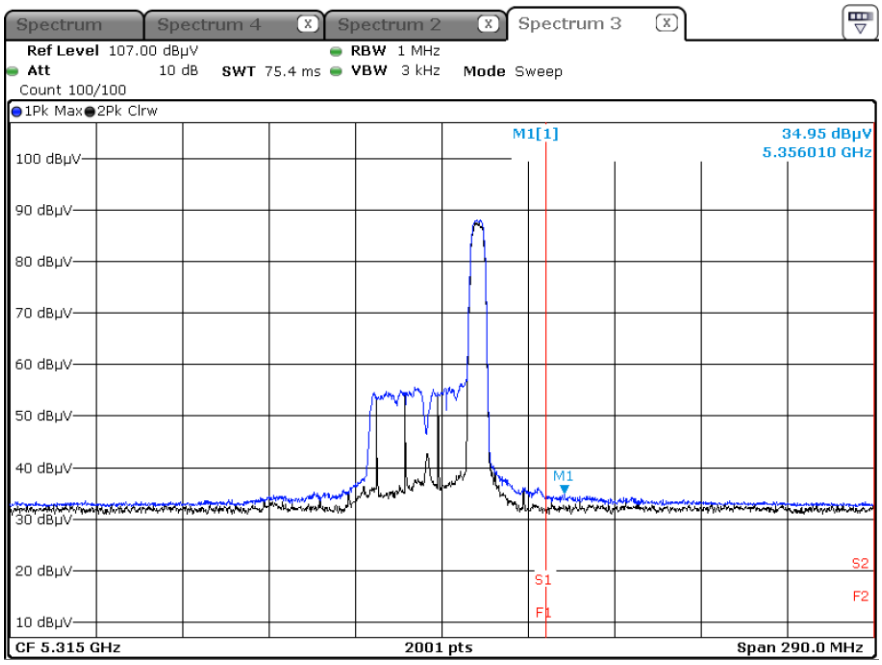
All Modes of operation were investigated and the worst case configuration results are reported.

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

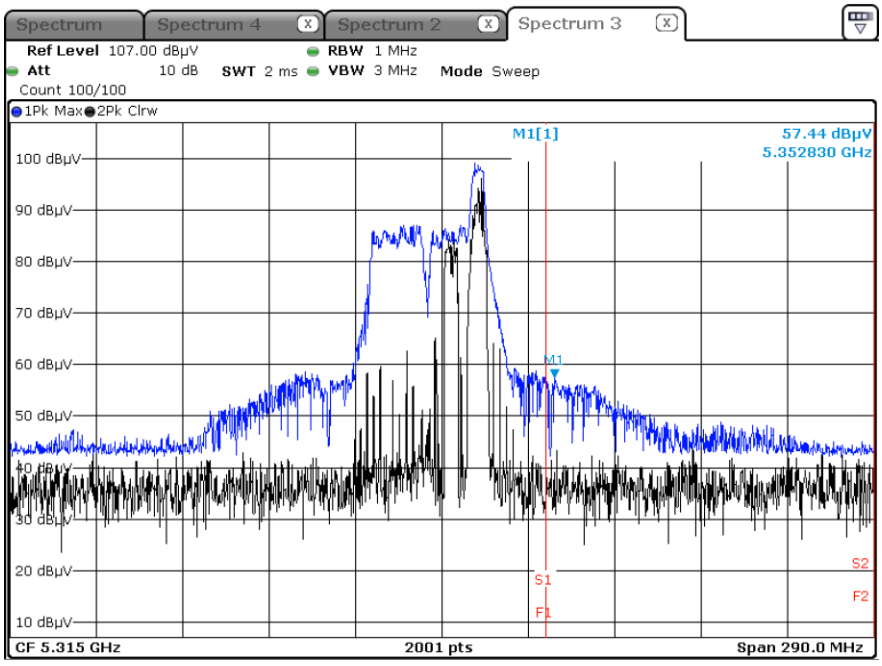
▣ Test Plots(UNII 1, 2A, 2C),

[MIMO]

Radiated Restricted Band Edges plot - Average result (802.11ax(HE40), Ch.62, X-H) –52 Tone RU 44



Radiated Restricted Band Edges plot - Peak result (802.11ax(HE40), Ch.62, X-H) –52 Tone RU 44



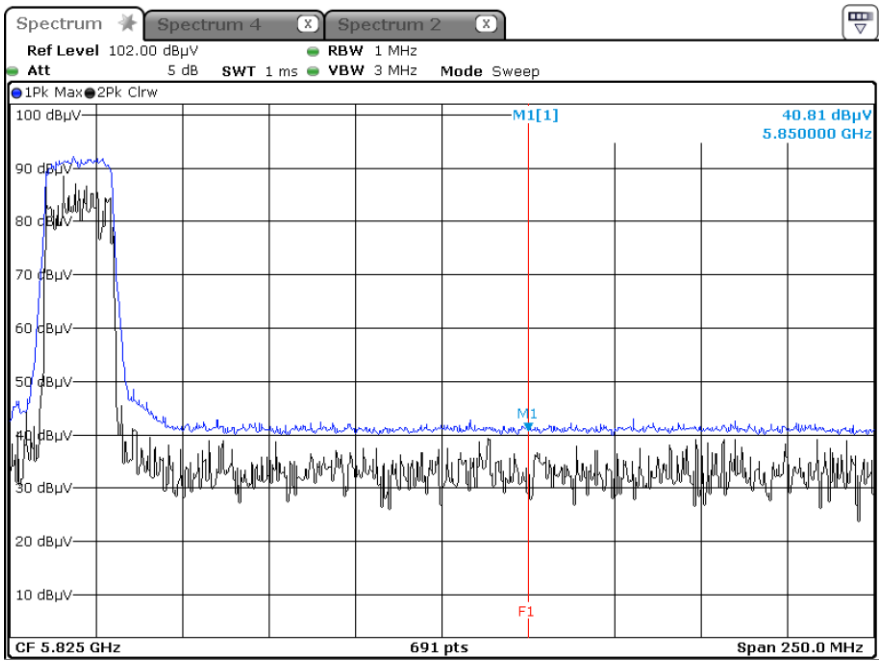
Note:

Only the worst case plots for Radiated Restricted Band Edge.

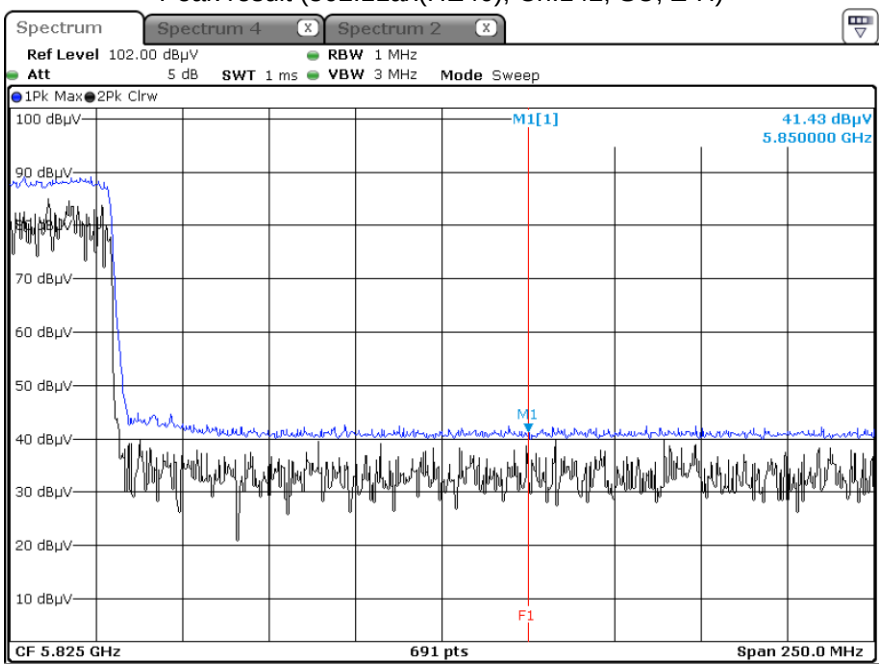
▣ Test Plots(Straddle Channel)

[MIMO]

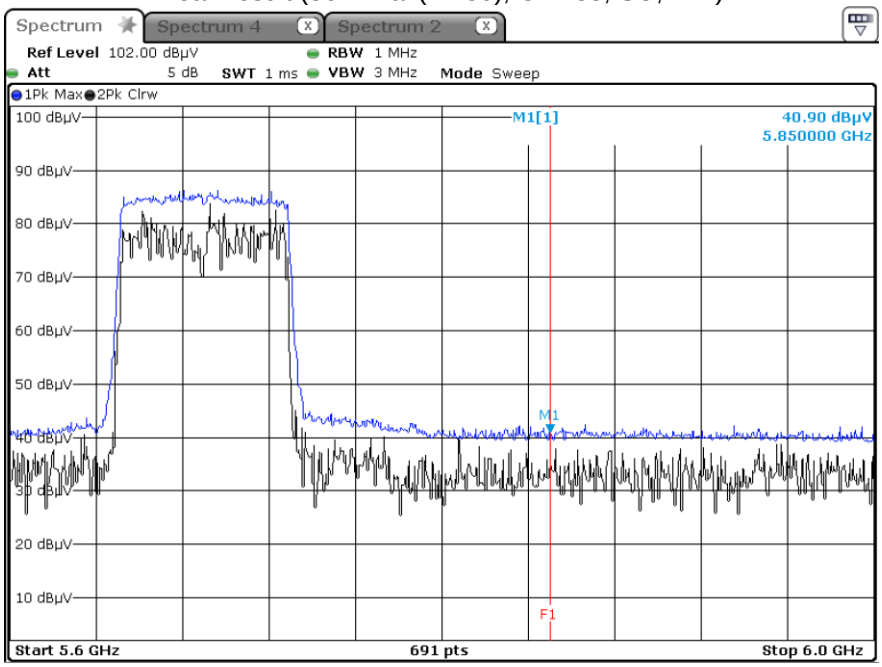
Peak result (802.11ax(HE20), Ch.144, SU, Z-H)



Peak result (802.11ax(HE40), Ch.142, SU, Z-H)



Peak result (802.11ax(HE80), Ch.138, SU, Z-H)



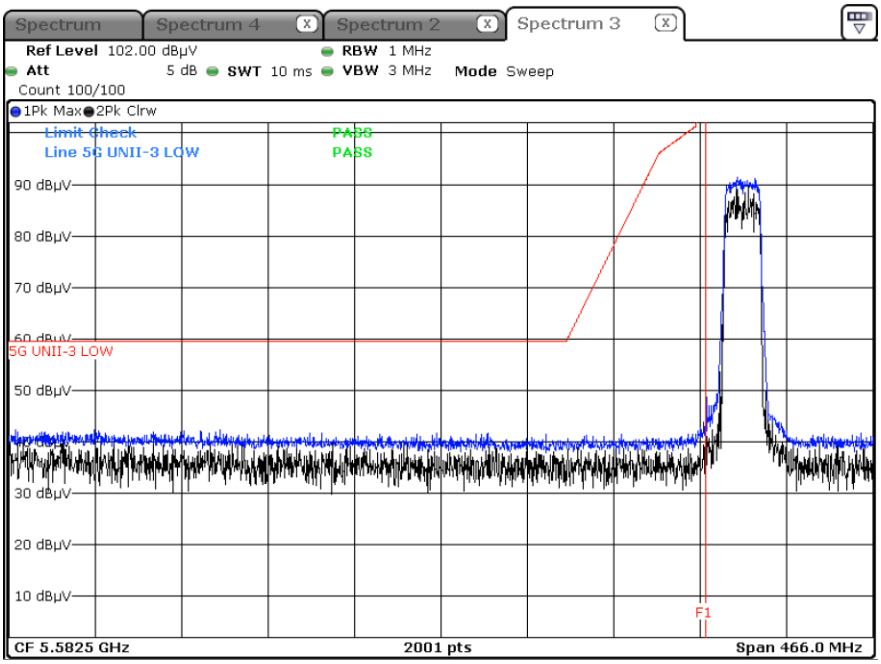
Note :

1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

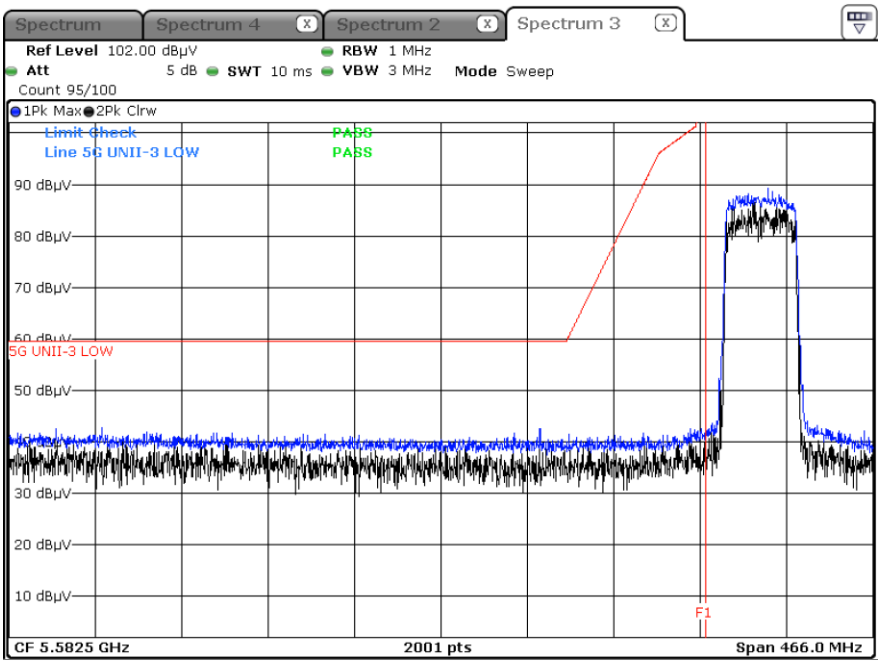
▣ Test Plots(UNII 3)_Low Edge

[MIMO]

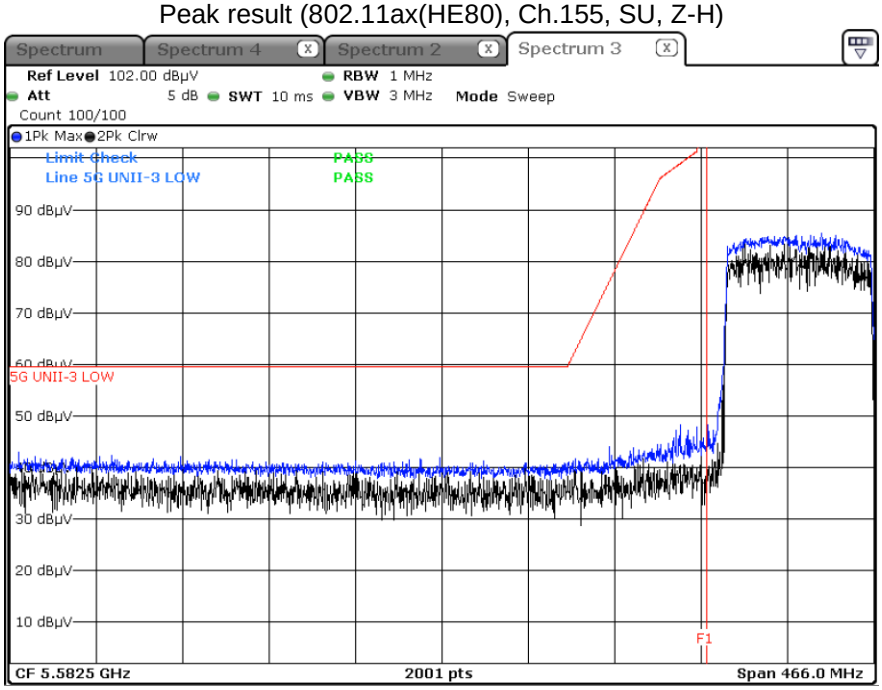
Peak result (802.11ax(HE20), Ch.149, SU, Z-H)



Peak result (802.11ax(HE40), Ch.151, SU, Z-H)



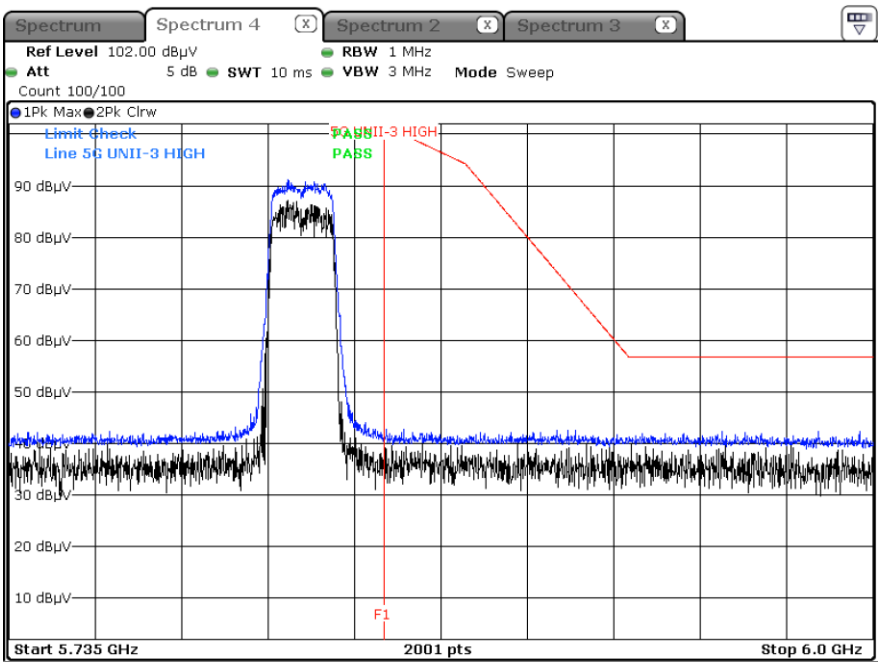
Peak result (802.11ax(HE80), Ch.155, SU, Z-H)



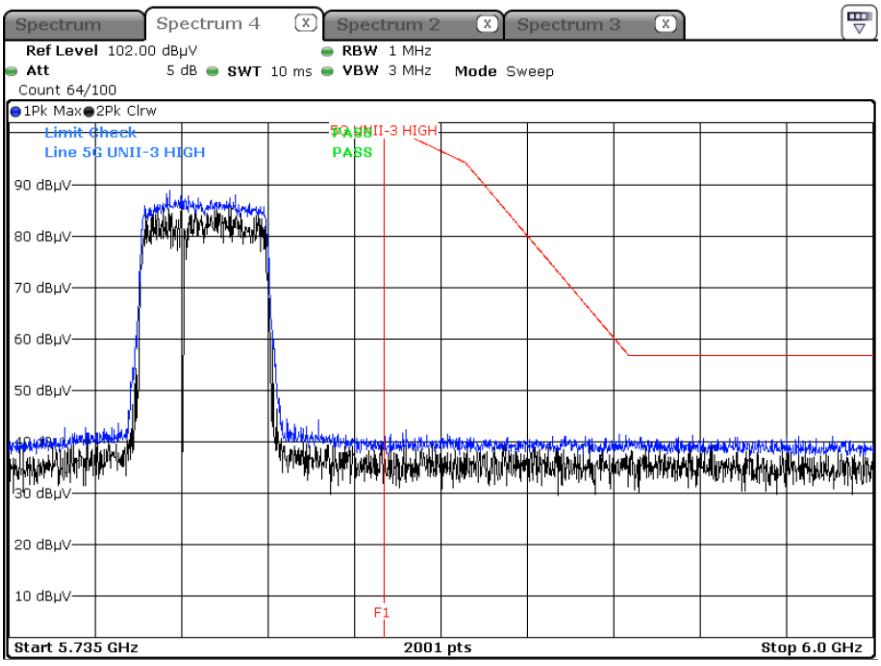
▣ Test Plots(UNII 3)_High Edge

[MIMO]

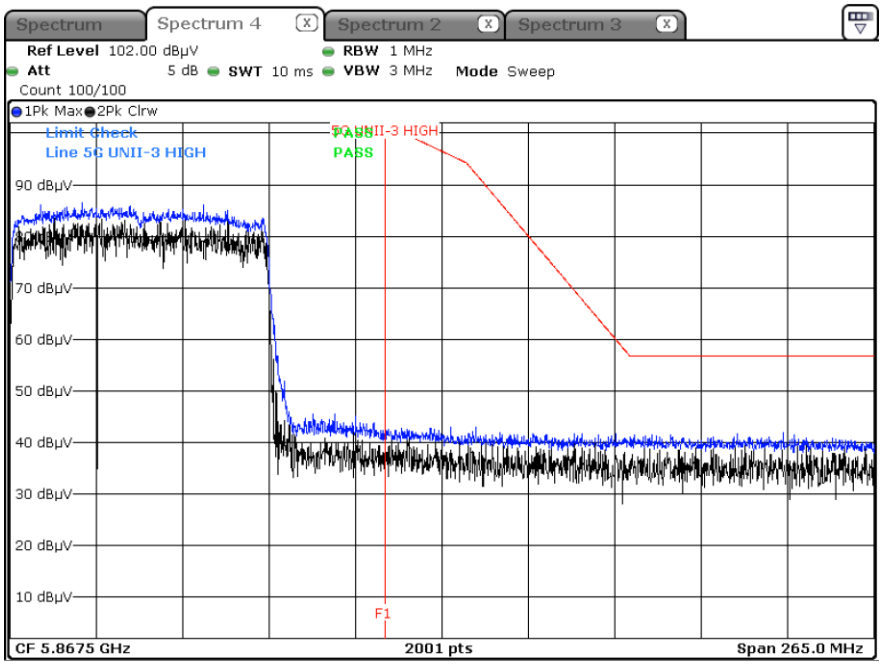
Peak result (802.11ax(HE20), Ch.165, SU, Z-H)



Peak result (802.11ax(HE40), Ch.159, SU, Z-H)



Peak result (802.11ax(HE80), Ch.155, SU, Z-H)

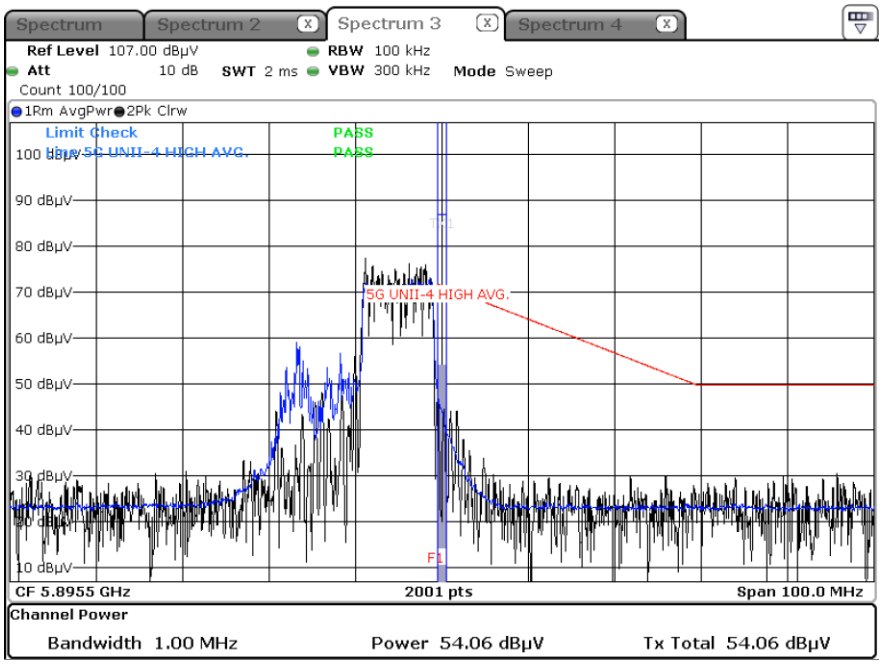


Note :

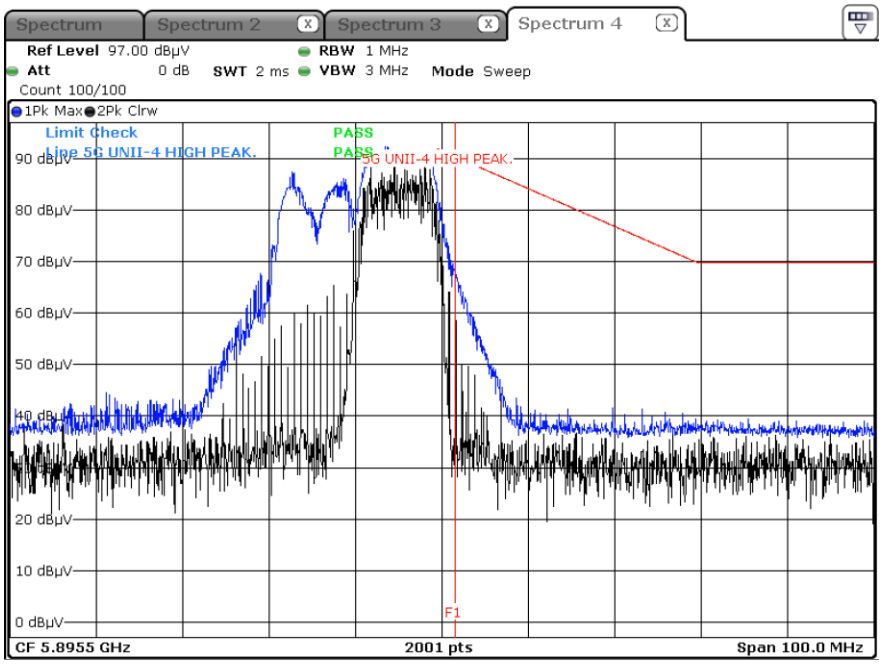
1. Only the worst case plots for U-NII-3 Out of Band e.i.r.p Emission.
2. U-NII-3 Low & High Band Edge RedLine is Final Test Limit about factor value compensation.

▣ Test Plots(UNII 4)

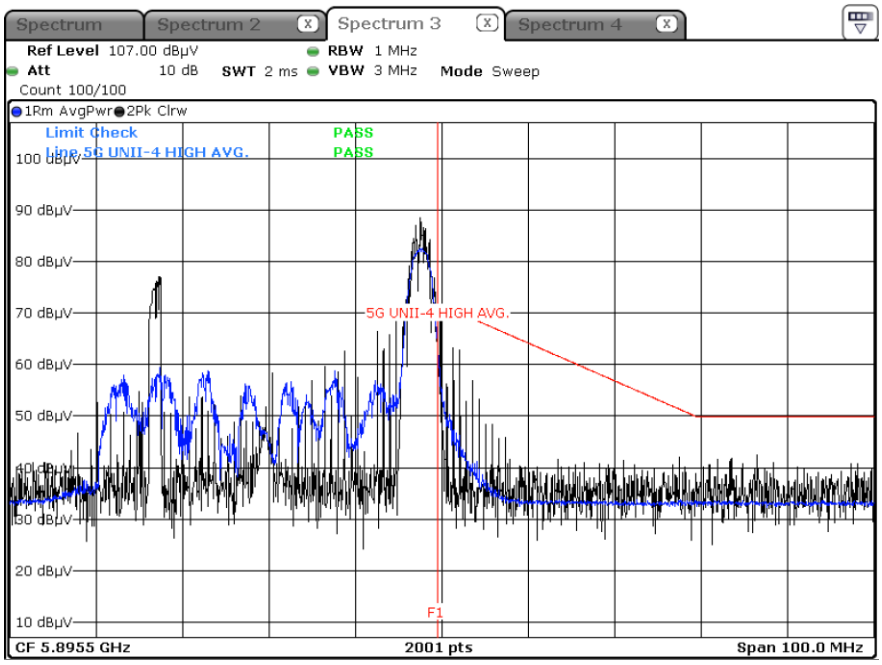
Average result (802.11ax(HE20), Ch.177, 106 Tone RU54, X-H)



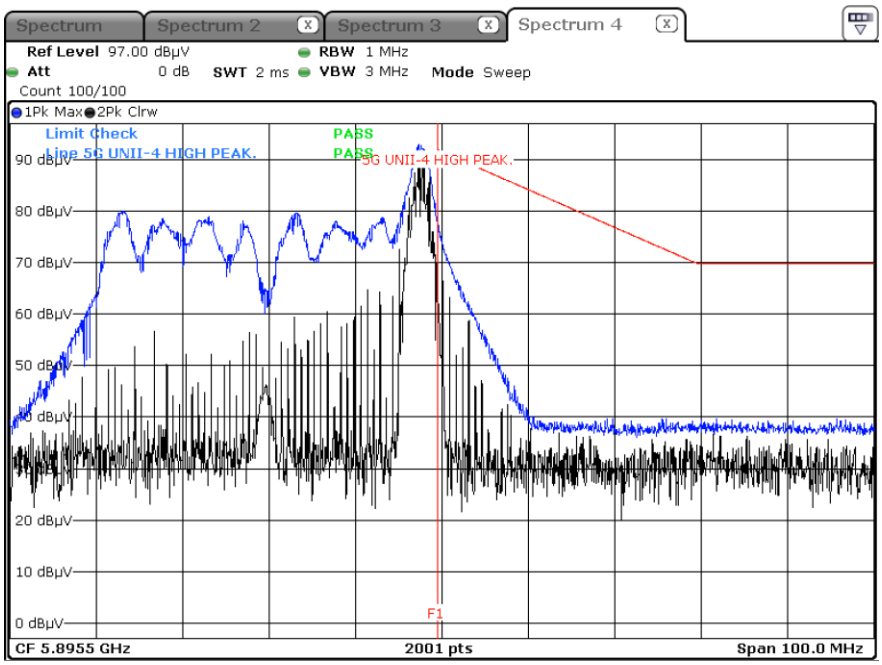
Peak result (802.11ax(HE20), Ch.177, 106 Tone RU54, X-H)



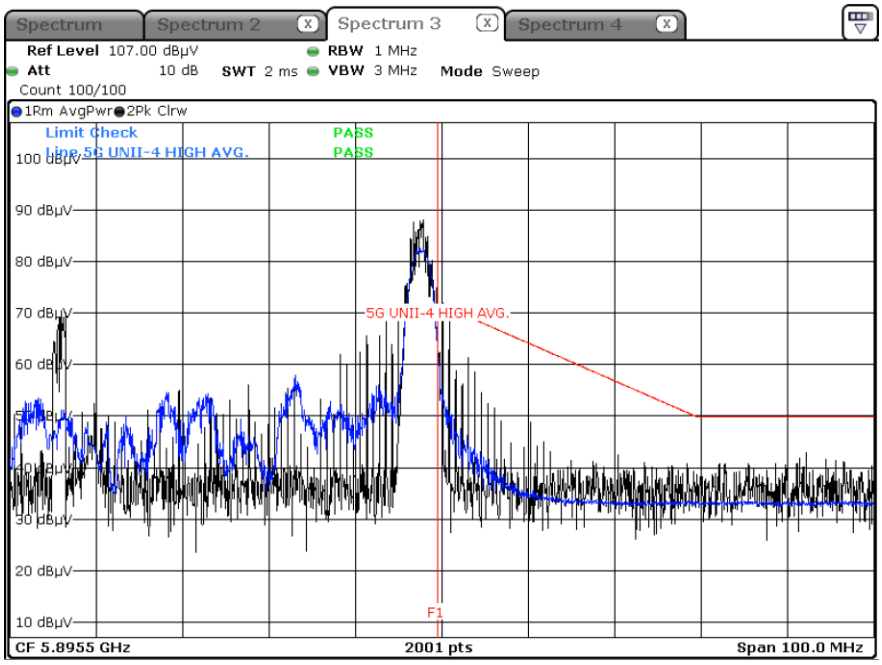
Average result (802.11ax(HE40), Ch.175, 26 Tone RU17, X-H)



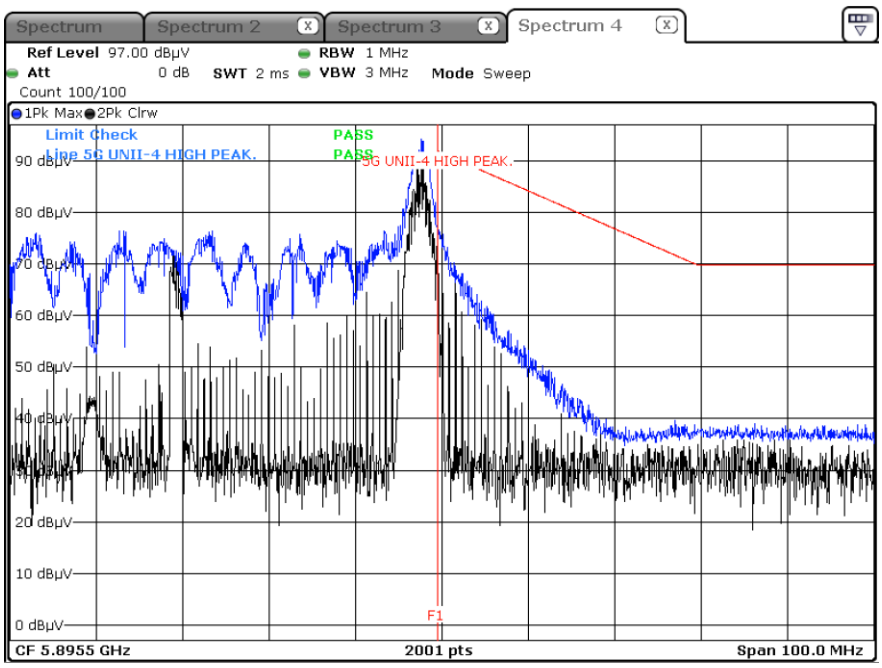
Peak result (802.11ax(HE40), Ch.175, 26 Tone RU17, X-H)



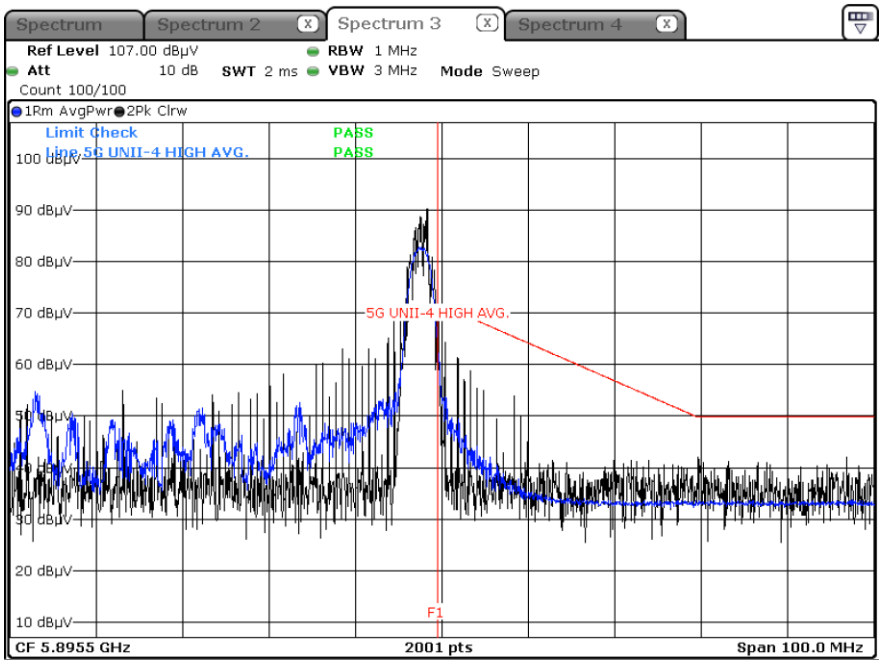
Average result (802.11ax(HE80), Ch.171, 26 Tone RU36, X-H)



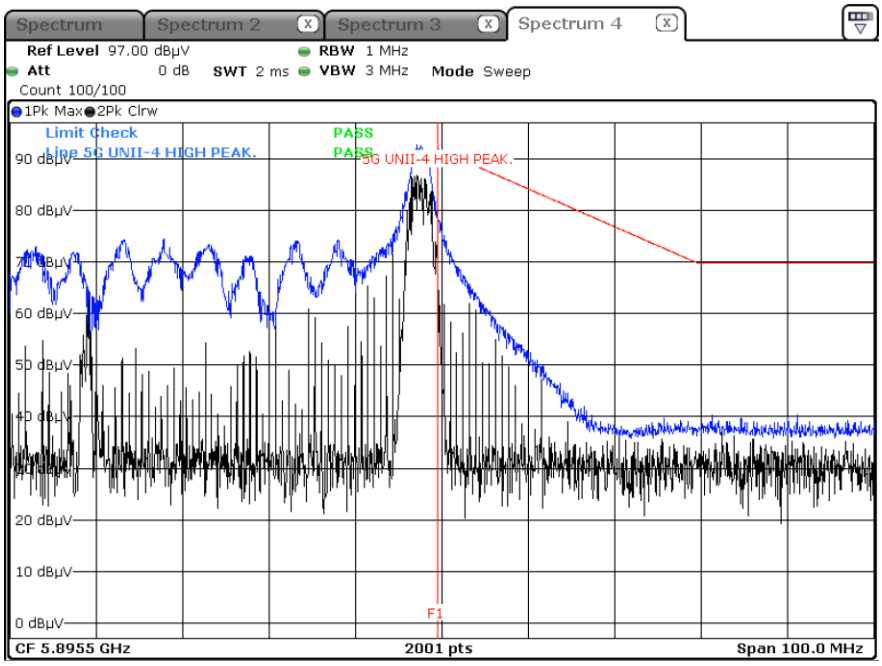
Peak result (802.11ax(HE80), Ch.171, 26 Tone RU36, X-H)



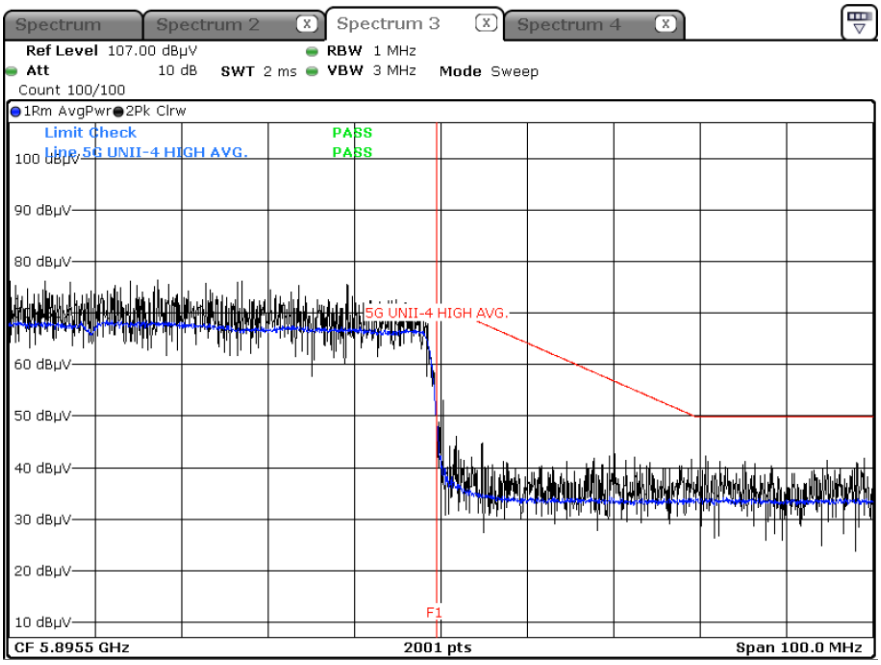
Average result (802.11ax(HE80_U), Ch.163, 26 Tone RU36, X-H)



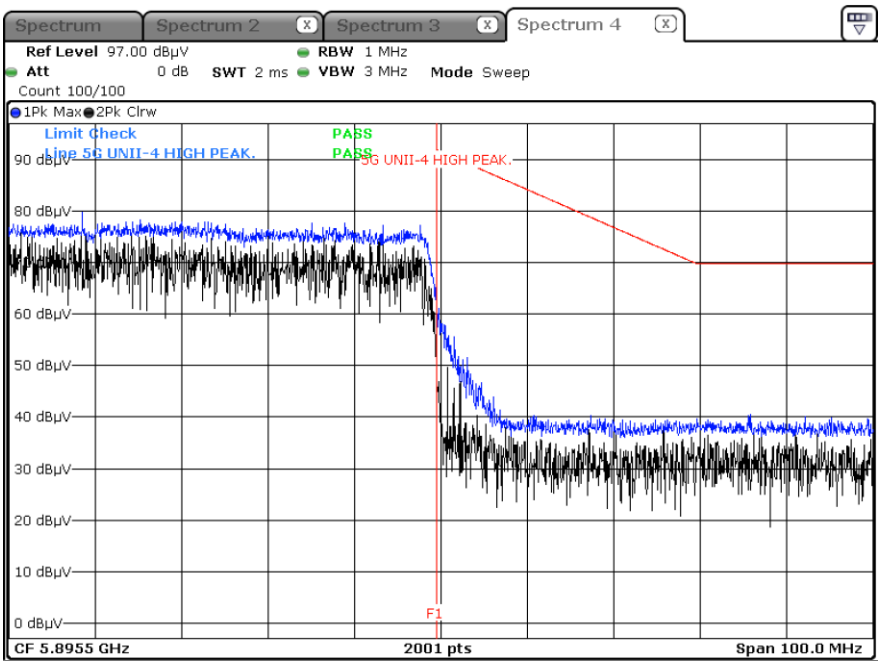
Peak result (802.11ax(HE80_U), Ch.163, 26 Tone RU36, X-H)



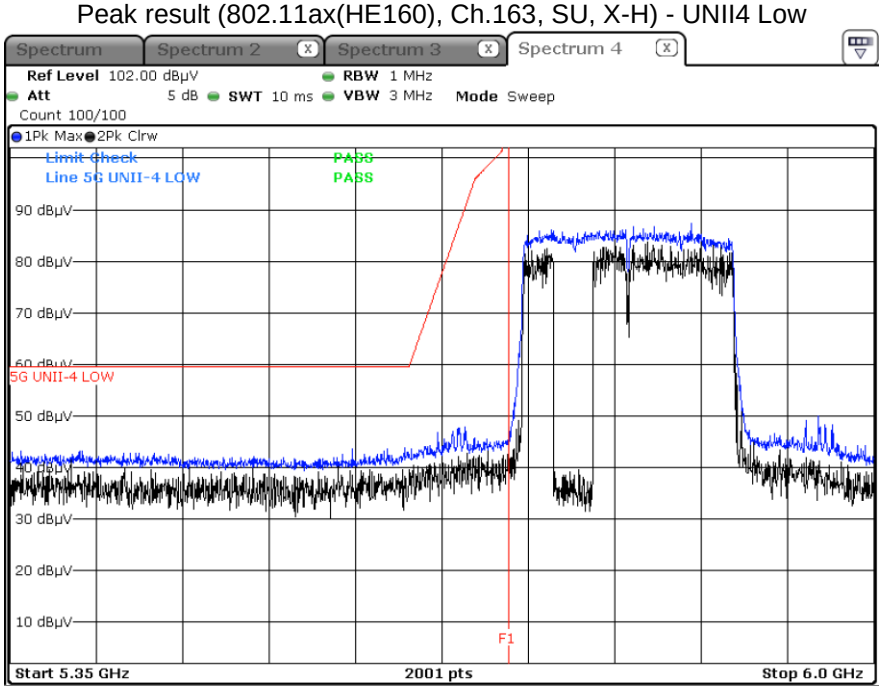
Average result (802.11ax(HE160), Ch.163, SU, X-H)



Peak result (802.11ax(HE160), Ch.163, SU, X-H)



Peak result (802.11ax(HE160), Ch.163, SU, X-H) - UNII4 Low



Note :

1. Only the worst case plots for U-NII-4 O.O.B.E
2. U-NII-4 Low & High O.O.B.E RedLine is Final Test Limit about factor value compensation.

11. LIST OF TESTEQUIPMENT

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
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

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

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-FC033-P