

FCC UNII REPORT

Certification

Applicant Name:
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Date of Issue:
January 12, 2023

Test Site/Location:
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Report No.: HCT-RF-2301-FC027

FCC ID:	A3LSMM546B
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APPLICANT:	SAMSUNG Electronics Co., Ltd.
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Model: SM-M546B/DS

Additional Model: -

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.

Report No.: HCT-RF-2301-FC027

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)

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-2301-FC027	January 12, 2023	- First Approval Report

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1. GENERAL INFORMATION

EUT DESCRIPTION

Model	SM-M546B/DS	
Additional Model	-	
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
	U-NII-2A	20 MHz BW : 5260 - 5320 40 MHz BW : 5270 - 5310 80 MHz BW : 5290
	U-NII-2C	20 MHz BW : 5500 - 5720 40 MHz BW : 5510 - 5710 80 MHz BW : 5530 - 5690
	U-NII-3	20 MHz BW : 5745 - 5825 40 MHz BW : 5755 - 5795 80 MHz BW : 5775
Straddle channel	Supported	
TDWR Band	Supported	
Dynamic Frequency Selection	Slave without radar detection	
Date(s) of Tests	November 30, 2022 ~ January 12, 2023	
Serial number	Radiated: R3CTB05MEGZ Conducted: R3CTB05MEDJ	

ANTENNA CONFIGURATIONS

1. Antenna configuration

Configurations	SISO		MIMO	
	Ant.1	Ant.2	CDD	SDM
802.11ax	X	O	X	O

Note:

- (1) O = Support, X = Not Support
- (2) SISO = Single Input Single Output
- (3) SDM = Spatial Diversity Multiplexing
- (4) CDD = Cyclic Delay Diversity

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 bands simultaneously on each antenna.

RSDB Scenario	5 GHz WiFi	5 GHz WiFi	Bluetooth	Bluetooth
	Ant.1	Ant.2	Ant.1	Ant.2
5 GHz WiFi Ant.2 + Bluetooth Ant.1		on	on	
5 GHz WiFi MIMO + Bluetooth Ant.1	<u>on</u>	<u>on</u>	<u>on</u>	

3. Directional Gain Calculation

According to KDB 662911 D01 Multiple Transmitter Output v02r01 F) 2) e) (iii)

$$\text{Directional gain} = G_{\max} + 10 \cdot \text{LOG}(N_{\text{ANT}} / N_{\text{SS}})$$

Band	Ant Gain (dBi)		N _{ANT} / N _{SS}	Directional Gain (dBi)
	ANT1	ANT2		
UNII 1	ANT1	-6.30	2 / 2	-6.30
	ANT2	-6.50		
UNII 2A	ANT1	-5.80	2 / 2	-5.80
	ANT2	-6.60		
UNII 2C	ANT1	-5.70	2 / 2	-5.70
	ANT2	-5.70		
UNII 3	ANT1	-6.30	2 / 2	-6.30
	ANT2	-6.40		

Note

According to Ansi C63.10-2013 section 14.4.3, the directional gain is calculated using the formula, where G_n is the gain of the nth antenna and N_{ANT} is the total number of antennas used.

$$\text{Directional gain} = G_{\max} + 10 \cdot \text{LOG}(N_{\text{ANT}} / N_{\text{SS}})$$

Sample MIMO Calculation:

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

$$\text{Ant1} + \text{Ant 2} = \text{MIMO}$$

$$(11.58 \text{ dBm} + 12.08 \text{ dBm}) = (14.387 \text{ mW} + 16.143 \text{ mW}) = 30.53 \text{ mW} = 14.88 \text{ dBm}$$

2. MAXIMUM OUTPUT POWER

The transmitter has a maximum total conducted average output power as follows:

Band	Mode	SISO		MIMO					
		Ant 2 Power		Ant.1 Power		Ant.2 Power		Ant.1 + Ant.2 Power	
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
UNII1	802.11ax (HE20)	16.07	0.040	12.76	0.019	12.36	0.017	15.57	0.036
	802.11ax (HE40)	14.48	0.028	11.34	0.014	11.04	0.013	14.20	0.026
	802.11ax (HE80)	11.99	0.016	8.99	0.008	8.50	0.007	11.76	0.015
UNII2A	802.11ax (HE20)	16.25	0.042	12.64	0.018	12.78	0.019	15.66	0.037
	802.11ax (HE40)	14.32	0.027	11.40	0.014	11.14	0.013	14.21	0.026
	802.11ax (HE80)	11.95	0.016	9.03	0.008	8.95	0.008	11.95	0.016
UNII2C	802.11ax (HE20)	15.74	0.037	12.57	0.018	12.13	0.016	15.28	0.034
	802.11ax (HE40)	14.39	0.027	11.52	0.014	10.93	0.012	14.08	0.026
	802.11ax (HE80)	11.71	0.015	8.48	0.007	8.33	0.007	11.22	0.013
UNII3	802.11ax (HE20)	15.93	0.039	12.75	0.019	12.14	0.016	15.43	0.035
	802.11ax (HE40)	14.05	0.025	11.56	0.014	10.69	0.012	14.15	0.026
	802.11ax (HE80)	11.56	0.014	8.96	0.008	8.09	0.006	11.54	0.014

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.

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.

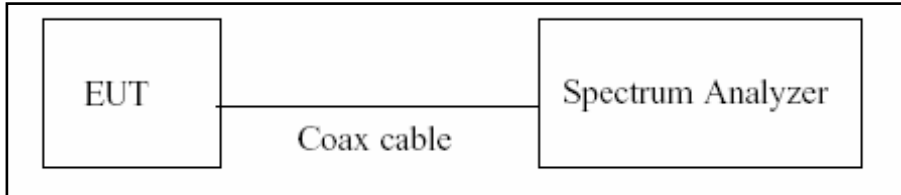
The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

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.

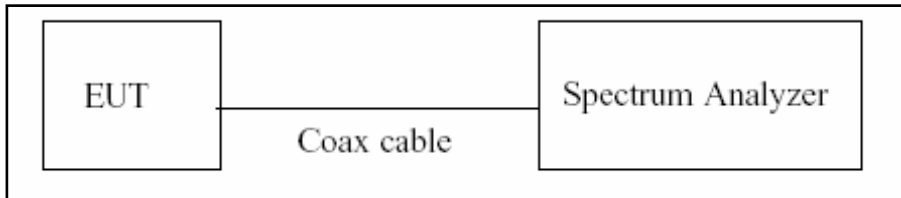
1. RBW = 8 MHz (the largest available value)
2. VBW = 8 MHz (\geq RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Measure T_{total} and T_{on}
8. Calculate Duty Cycle = T_{on} / T_{total} and Duty Cycle Factor = $10\log(1/\text{Duty Cycle})$

8.2. 6 dB Bandwidth & 26 dB Bandwidth

Limit

Within the 5.725-5.85 GHz 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 $\geq 3 \times$ 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 level 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.

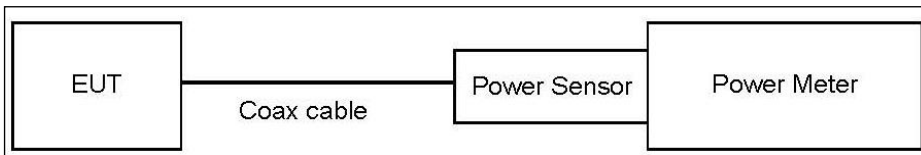
8.3. Output Power Measurement

Limit

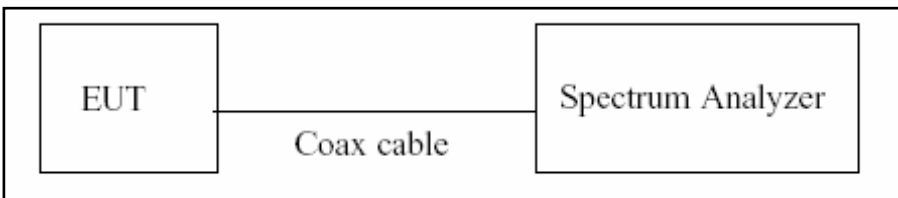
Band	Limit
UNII 1	- Master : Not exceed 1 W(=30 dBm) - Slave : Not exceed 250 mW(=23.98 dBm)
UNII 2A, 2C	Not exceed the lesser of 250 mW or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)
UNII 3	Not exceed 1 W(=30 dBm)

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 $10\log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Sample Calculation

Total Power(dBm) = Measured 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 Attenuator loss(10 dB) + Cable loss

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

Band	Loss(dB)
UNII 1	10.80
UNII 2A	10.80
UNII 2C	10.80
UNII 3	10.80

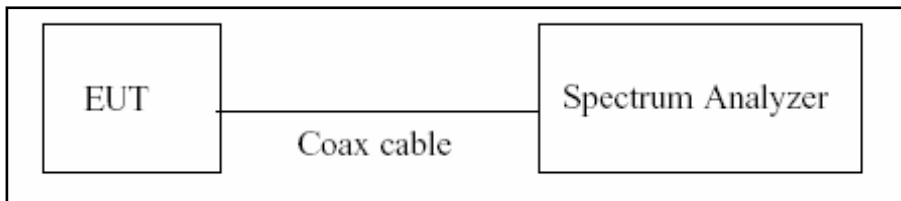
(Actual value of loss for the attenuator and cable combination)

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

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 Attenuator loss(10 dB) + Cable loss

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

Band	Loss(dB)
UNII 1	10.80
UNII 2A	10.80
UNII 2C	10.80
UNII 3	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 μ H/50 ohms line impedance stabilization network (LISN).

Frequency Range (MHz)	Limits (dB μ V)	
	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

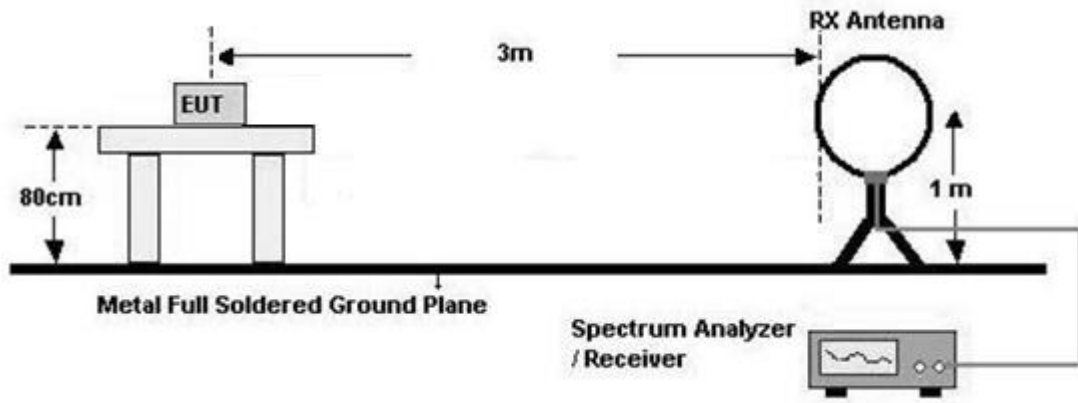
Limit

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. 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.

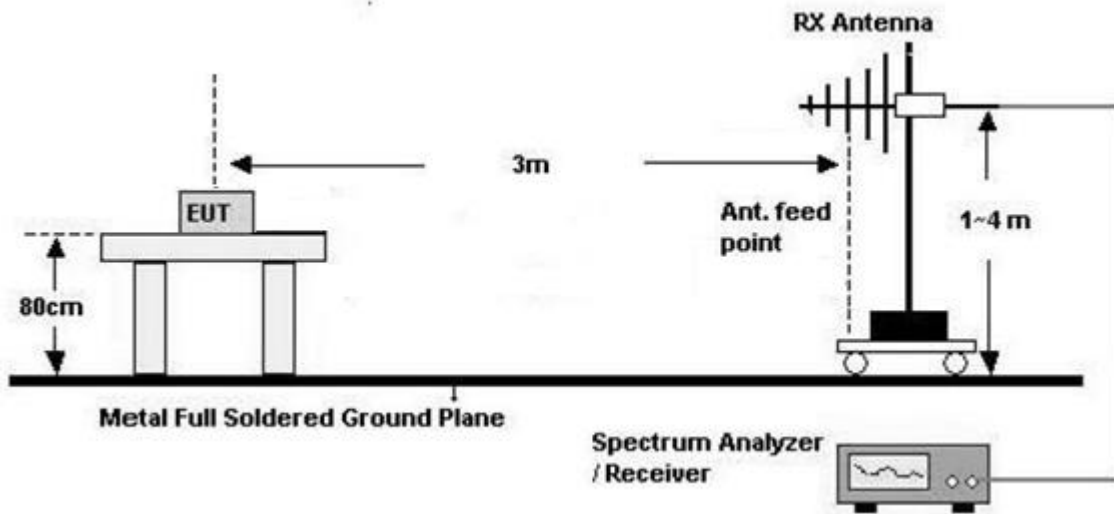
Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

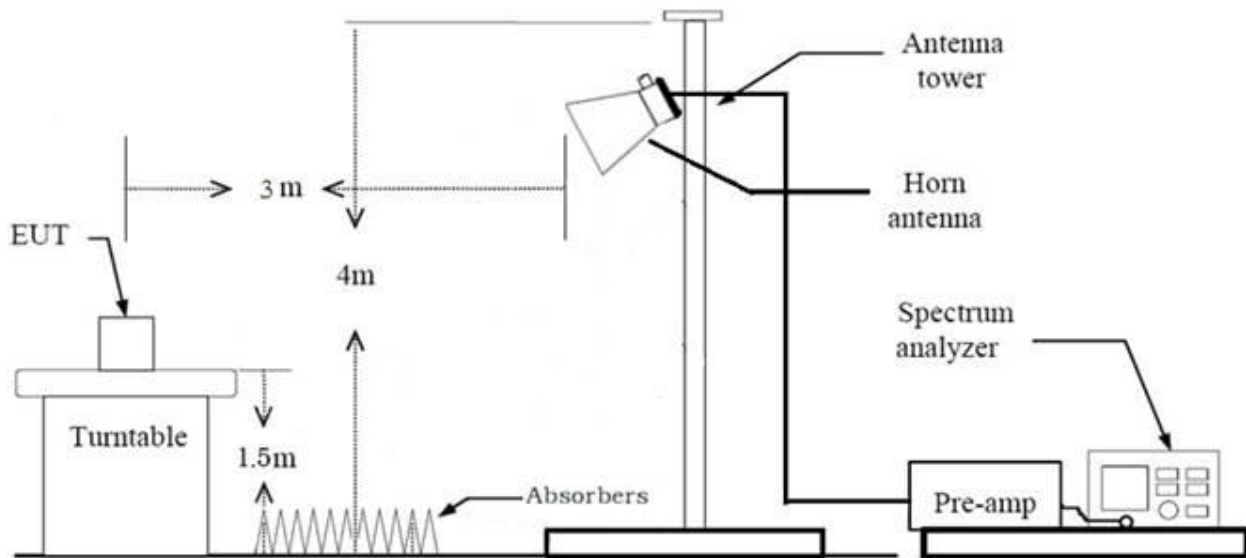
Below 30 MHz



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) = $40\log(3 \text{ m}/300 \text{ m}) = - 80 \text{ dB}$
Measurement Distance : 3 m
7. Distance Correction Factor(0.490 MHz – 30 MHz) = $40\log(3 \text{ m}/30 \text{ m}) = - 40 \text{ dB}$
Measurement Distance : 3 m
8. Spectrum Setting
 - Frequency Range = 9 kHz ~ 30 MHz
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 9 kHz
 - VBW $\geq 3 \times$ 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 \geq 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 \geq 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 \geq 98 percent) = VBW \leq RBW/100(i.e., 10 kHz) but not less than 10 Hz.
- VBW(Duty cycle is < 98 percent) = VBW \geq $1/T$, 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 = $20\log(\text{test distance} / \text{specific distance})$ (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 \geq 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 \geq 98 percent) = $VBW \leq RBW/100$ (i.e., 10 kHz) but not less than 10 Hz.
- VBW(Duty cycle is < 98 percent) = $VBW \geq 1/T$, 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

[SISO]

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	0.977	0.100	0.180	1000
	52	MCS0	0.975	0.108	0.195	1000
	106	MCS0	0.951	0.220	0.410	1000
	242	MCS0	0.904	0.438	0.910	1000
802.11ax (HE40)	26	MCS0	0.975	0.109	0.180	1000
	52	MCS0	0.975	0.111	0.195	1000
	106	MCS0	0.948	0.233	0.410	1000
	242	MCS0	0.899	0.464	0.907	1000
	484	MCS0	0.842	0.747	1.724	3000
802.11ax (HE80)	26	MCS0	0.976	0.106	0.180	1000
	52	MCS0	0.978	0.099	0.195	1000
	106	MCS0	0.951	0.220	0.410	1000
	242	MCS0	0.904	0.438	0.910	1000
	484	MCS0	0.833	0.795	1.724	3000
	996	MCS0	0.725	1.399	3.262	5000
802.11ax (SU)	BW 20	MCS0	0.896	0.475	0.912	1000
	BW 40	MCS0	0.832	0.798	1.731	3000
	BW 80	MCS0	0.723	1.409	3.289	5000

[MIMO]

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	0.982	0.077	0.195	1000
	52	MCS0	0.960	0.178	0.384	1000
	106	MCS0	0.925	0.338	0.799	1000
	242	MCS0	0.835	0.782	1.694	3000
802.11ax (HE40)	26	MCS0	0.978	0.098	0.195	1000
	52	MCS0	0.956	0.194	0.384	1000
	106	MCS0	0.913	0.395	0.801	1000
	242	MCS0	0.835	0.782	1.694	3000
	484	MCS0	0.740	1.307	3.013	5000
802.11ax (HE80)	26	MCS0	0.977	0.102	0.195	1000
	52	MCS0	0.954	0.206	0.384	1000
	106	MCS0	0.908	0.419	0.799	1000
	242	MCS0	0.835	0.782	1.694	3000
	484	MCS0	0.728	1.380	3.013	5000
	996	MCS0	0.593	2.266	5.407	10000
802.11ax (SU)	BW 20	MCS0	0.830	0.808	1.716	3000
	BW 40	MCS0	0.737	1.324	3.060	5000
	BW 80	MCS0	0.610	2.145	5.482	10000

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: MCS0

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, Y, Z
 - Radiated Restricted Band Edge : X, Y
3. All data rate of operation were investigated and the worst case results are reported.
(Worst case : MCS0)
4. All Antenna of operation were investigated and the worst case results are reported
Antenna Operation Type : Ant.2(SISO), Ant.1+Ant.2(MIMO_SDM)
 - Radiated Spurious Emissions Worstcase : Ant.2(SISO)
 - Radiated Restricted Band Edge Worstcase : Ant.1+Ant.2(MIMO_SDM)
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	STONE	RU OFFSET
RSE	[HE20] WORST CASE(Spurious emission worst) : 26T	4
Band-Edge (UNII1,2A,2C)	[HE20] : 106T	53, 54
	[HE40] : 484T	65
	[HE80] : SU	-
	[HE20] ADDITIONAL TONE : 26T, 52T, 242T, SU [HE40] ADDITIONAL TONE : 26T, 52T, 106T, 242T, SU [HE80] ADDITIONAL TONE : 26T, 52T, 106T, 242T, 484T, 996T	[HE20] Low Edge: 0, 37, 61 High Edge: 8, 40, 61 [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
Band-Edge (Straddle, UNII3)	[HE 20] Worst case(Highest Power) : 242T	61
	[HE 40] Worst case(Highest Power) : 484T	65
	[HE 80] Worst case(Highest Power) : 996T	67

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., 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 : 5 GHz WiFi MIMO + Bluetooth Ant.1

RSDB Scenario	5 GHz WiFi Ant.1	5 GHz WiFi Ant.2	Bluetooth Ant.1	Bluetooth Ant.2
5 GHz WiFi Ant.2 + Bluetooth Ant.1		on	on	
5 GHz WiFi MIMO + Bluetooth Ant.1	<u>on</u>	<u>on</u>	<u>on</u>	

4. The following tables show the worst case configurations determined during testing.

Description	Bluetooth Emission	5 GHz Emission
Antenna	ANT1	ANT2
Channel	0	157
Data Rate	3 Mbps	MCS0
Mode	8DPSK : 3-DH5	802.11ax HE20, 26T

Note : WLAN 5 GHz RSDB Data refer to [BT] Test Report.

AC Power line Conducted Emissions

1. Please refer to the SM-M546B/DS[UNII] Test Report.

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)		PASS
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)(9)	<FCC 15.207 limits		PASS (Note1)
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)		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	Radiated	PASS

Note1:

1. Please refer to the SM-M546B/DS[UNII] Test Report.

10. TEST RESULT

10.1 DUTY CYCLE

[SISO]

Mode	Tone	Worst Data rate (Mbps)	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (HE20)	26	MCS0	5.548	5.677	0.977	0.100
	52	MCS0	5.130	5.259	0.975	0.108
	106	MCS0	2.440	2.566	0.951	0.220
	242	MCS0	1.099	1.216	0.904	0.438
802.11ax (HE40)	26	MCS0	5.544	5.685	0.975	0.109
	52	MCS0	5.134	5.267	0.975	0.111
	106	MCS0	2.440	2.574	0.948	0.233
	242	MCS0	1.102	1.226	0.899	0.464
	484	MCS0	0.580	0.689	0.842	0.747
802.11ax (HE80)	26	MCS0	5.548	5.685	0.976	0.106
	52	MCS0	5.130	5.248	0.978	0.099
	106	MCS0	2.437	2.564	0.951	0.220
	242	MCS0	1.099	1.216	0.904	0.438
	484	MCS0	0.580	0.697	0.833	0.795
	996	MCS0	0.307	0.423	0.725	1.399
802.11ax (SU)	BW 20	MCS0	1.097	1.224	0.896	0.475
	BW 40	MCS0	0.578	0.694	0.832	0.798
	BW 80	MCS0	0.304	0.421	0.723	1.409

Note:

1. Duty Cycle Factor = $10 \cdot \log(1/\text{Duty Cycle})$. where, Duty Cycle = T_{on} / T_{total}

[MIMO]

Mode	Tone	Worst Data rate (Mbps)	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (HE20)	26	MCS0	5.140	5.232	0.982	0.077
	52	MCS0	2.604	2.713	0.960	0.178
	106	MCS0	1.251	1.353	0.925	0.338
	242	MCS0	0.590	0.707	0.835	0.782
802.11ax (HE40)	26	MCS0	5.138	5.255	0.978	0.098
	52	MCS0	2.604	2.723	0.956	0.194
	106	MCS0	1.249	1.368	0.913	0.395
	242	MCS0	0.590	0.707	0.835	0.782
	484	MCS0	0.332	0.448	0.740	1.307
802.11ax (HE80)	26	MCS0	5.138	5.259	0.977	0.102
	52	MCS0	2.607	2.733	0.954	0.206
	106	MCS0	1.251	1.378	0.908	0.419
	242	MCS0	0.590	0.707	0.835	0.782
	484	MCS0	0.332	0.456	0.728	1.380
	996	MCS0	0.185	0.312	0.593	2.266
802.11ax (SU)	BW 20	MCS0	0.583	0.702	0.830	0.808
	BW 40	MCS0	0.327	0.443	0.737	1.324
	BW 80	MCS0	0.182	0.299	0.610	2.145

Note:

1. Duty Cycle Factor = $10 \cdot \log(1/\text{Duty Cycle})$. where, Duty Cycle = T_{on} / T_{total}

10.2 26 dB BANDWIDTH& 99% BANDWIDTH

10.2.1 SISO 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	19.42	20.00	19.53	-	-
			Mid	16.70	17.95	-	22.16	20.65
			High	19.38	19.51	19.59	-	-
	5200	40	Low	21.17	21.13	22.13	-	-
			Mid	18.10	18.01	-	35.39	31.87
			High	20.62	21.56	21.52	-	-
	5240	48	Low	20.96	21.37	22.66	-	-
			Mid	18.36	18.19	-	31.32	33.01
			High	20.98	21.15	22.35	-	-
UNII 2A	5260	52	Low	21.28	21.70	22.33	-	-
			Mid	17.92	18.50	-	31.92	34.36
			High	20.83	20.28	22.34	-	-
	5280	56	Low	20.76	20.96	22.31	-	-
			Mid	18.21	18.43	-	31.58	35.95
			High	21.12	20.87	21.45	-	-
	5320	64	Low	19.94	19.82	19.24	-	-
			Mid	17.98	17.92	-	20.78	20.97
			High	20.06	19.53	19.44	-	-
UNII 2C	5500	100	Low	19.74	19.68	19.74	-	-
			Mid	17.80	17.32	-	20.73	20.55
			High	19.68	19.55	19.46	-	-
	5600	120	Low	21.57	21.49	22.23	-	-
			Mid	18.00	17.54	-	31.55	31.49
			High	21.27	21.34	22.09	-	-
	5720	144	Low	21.15	21.52	21.78	-	-
			Mid	18.24	19.32	-	31.86	29.31
			High	21.51	21.49	21.58	-	-

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	21.14	22.03	22.21	-	-
			Mid	18.30	18.42	-	33.18	30.14
			High	21.08	21.33	21.57	-	-
	5785	157	Low	20.84	22.25	21.70	-	-
			Mid	18.36	18.27	-	30.33	32.08
			High	20.93	21.58	22.38	-	-
	5825	165	Low	20.68	21.26	22.40	-	-
			Mid	18.09	18.56	-	31.46	34.36
			High	21.08	21.62	22.37	-	-

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	21.62	21.86	21.74	25.74	-	-
			Mid	22.17	22.39	24.19	-	64.38	57.44
			High	21.42	21.87	22.50	25.54	-	-
	5230	46	Low	21.55	22.44	22.33	25.50	-	-
			Mid	22.50	22.81	22.98	-	66.21	57.54
			High	21.19	21.71	22.67	25.81	-	-
UNII 2A	5270	54	Low	21.50	21.59	22.15	26.15	-	-
			Mid	22.01	22.72	22.96	-	63.71	59.15
			High	21.33	21.30	22.45	26.52	-	-
	5310	62	Low	22.01	21.58	22.83	26.29	-	-
			Mid	22.57	22.59	24.14	-	64.04	60.69
			High	21.44	21.95	22.66	26.23	-	-
UNII 2C	5510	102	Low	20.26	19.86	19.95	23.43	-	-
			Mid	22.64	22.14	22.33	-	43.32	41.23
			High	20.24	20.07	20.25	22.96	-	-
	5590	118	Low	22.17	22.08	22.06	25.90	-	-
			Mid	23.04	22.44	23.30	-	64.36	56.98
			High	20.92	21.69	22.65	26.30	-	-
	5710	142	Low	21.55	21.41	21.95	25.41	-	-
			Mid	22.10	22.53	22.87	-	64.55	59.63
			High	21.72	22.42	22.29	25.05	-	-
UNII 3	5755	151	Low	21.18	21.87	22.08	25.83	-	-
			Mid	22.49	22.59	23.15	-	66.48	60.32
			High	21.43	21.56	22.31	26.08	-	-
	5795	159	Low	21.08	20.74	21.92	27.03	-	-
			Mid	22.66	22.54	23.99	-	64.60	60.87
			High	21.83	21.58	22.64	26.36	-	-

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	23.37	23.05	23.73	27.64	45.66	-	-
			Mid	38.03	22.92	22.78	43.19	-	102.3	96.39
			High	22.42	23.80	23.18	25.84	45.83	-	-
UNII 2A	5290	58	Low	22.48	22.96	23.70	27.38	44.96	-	-
			Mid	37.55	22.14	22.87	41.96	-	105.1	96.99
			High	23.48	23.55	24.08	27.60	45.68	-	-
UNII 2C	5530	106	Low	20.64	20.21	20.58	24.39	43.16	-	-
			Mid	38.70	22.23	22.77	42.29	-	81.61	81.38
			High	20.92	20.52	20.96	24.35	42.53	-	-
	5610	122	Low	22.93	21.96	22.84	27.51	46.00	-	-
			Mid	38.50	22.42	23.01	42.59	-	102.7	96.45
			High	22.66	22.68	22.71	27.89	45.77	-	-
	5690	138	Low	23.53	22.84	22.75	26.70	45.37	-	-
			Mid	38.43	22.07	23.26	41.68	-	102.8	98.48
			High	23.94	22.87	23.66	28.23	46.04	-	-
UNII 3	5775	155	Low	22.56	23.13	22.67	26.52	45.17	-	-
			Mid	38.39	22.11	22.74	42.84	-	104.3	97.89
			High	22.96	23.47	23.47	26.93	45.82	-	-

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	17.724	17.661	17.589	-	-
			Mid	15.036	15.802	-	18.863	18.782
			High	17.910	17.518	17.590	-	-
	5200	40	Low	18.906	18.507	18.327	-	-
			Mid	16.860	16.928	-	19.656	19.620
			High	18.722	18.504	18.300	-	-
	5240	48	Low	19.093	18.467	18.230	-	-
			Mid	16.766	16.828	-	19.477	19.550
			High	18.790	18.174	18.302	-	-
UNII 2A	5260	52	Low	18.726	18.546	18.380	-	-
			Mid	16.786	17.142	-	19.592	19.524
			High	18.964	17.753	18.291	-	-
	5280	56	Low	18.998	18.496	18.326	-	-
			Mid	16.363	17.042	-	19.571	19.605
			High	19.164	18.456	18.262	-	-
	5320	64	Low	17.858	17.835	17.549	-	-
			Mid	15.692	15.718	-	18.835	18.834
			High	18.032	17.710	17.589	-	-
UNII 2C	5500	100	Low	17.869	17.849	17.612	-	-
			Mid	15.662	15.425	-	18.822	18.738
			High	17.724	17.642	17.583	-	-
	5600	120	Low	18.864	18.262	18.332	-	-
			Mid	16.850	16.378	-	19.618	19.496
			High	18.764	18.394	18.317	-	-
	5720	144	Low	18.974	18.536	18.381	-	-
			Mid	16.984	16.957	-	19.568	19.496
			High	18.971	18.559	18.346	-	-
UNII 3	5745	149	Low	19.193	18.456	18.332	-	-
			Mid	16.797	16.891	-	19.609	19.514
			High	18.803	18.555	18.336	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)				
				26 T	52 T	106 T	242 T	SU
	5785	157	Low	18.843	18.596	18.365	-	-
			Mid	17.044	17.205	-	19.533	19.450
			High	19.185	18.568	18.313	-	-
	5825	165	Low	18.553	18.562	18.424	-	-
			Mid	16.935	17.177	-	19.540	19.562
			High	19.004	18.451	18.345	-	-

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	18.978	18.517	18.002	19.282	-	-
			Mid	19.621	19.403	18.768	-	39.318	38.745
			High	19.112	18.525	18.040	19.208	-	-
	5230	46	Low	19.144	18.507	18.070	19.226	-	-
			Mid	19.636	19.225	18.825	-	39.180	38.973
			High	19.030	18.504	18.023	19.340	-	-
UNII 2A	5270	54	Low	19.016	18.359	18.112	19.221	-	-
			Mid	19.758	19.323	18.781	-	39.300	38.943
			High	19.130	18.336	17.978	19.334	-	-
	5310	62	Low	19.112	18.432	18.085	19.252	-	-
			Mid	20.044	19.396	18.821	-	39.422	39.116
			High	19.406	18.518	18.062	19.289	-	-
UNII 2C	5510	102	Low	18.241	17.874	17.627	18.923	-	-
			Mid	19.507	18.860	18.261	-	38.205	37.735
			High	18.263	17.962	17.653	19.014	-	-
	5590	118	Low	18.953	18.469	18.092	19.326	-	-
			Mid	19.923	19.219	18.839	-	39.417	38.992
			High	19.059	18.400	18.228	19.396	-	-
	5710	142	Low	19.129	18.292	18.139	19.366	-	-
			Mid	19.906	19.267	18.783	-	39.465	38.591
			High	19.275	18.372	18.075	19.339	-	-
UNII 3	5755	151	Low	19.193	18.479	18.165	19.312	-	-
			Mid	19.972	19.350	18.813	-	39.342	38.973
			High	18.586	18.476	18.060	19.470	-	-
	5795	159	Low	19.059	18.148	18.036	19.397	-	-
			Mid	19.892	19.277	18.935	-	39.424	38.858
			High	19.230	18.502	18.117	19.385	-	-

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	20.133	19.292	18.529	19.813	37.986	-	-
			Mid	35.962	18.821	18.313	37.406	-	78.375	78.088
			High	20.052	19.329	18.468	20.055	38.168	-	-
UNII 2A	5290	58	Low	20.368	19.149	18.422	19.995	37.956	-	-
			Mid	35.575	18.807	18.308	37.182	-	78.370	77.971
			High	20.337	19.532	18.635	20.025	37.948	-	-
UNII 2C	5530	106	Low	18.517	18.076	17.755	19.382	37.569	-	-
			Mid	36.125	18.457	18.346	36.910	-	76.540	76.764
			High	18.749	18.109	17.806	19.422	37.646	-	-
	5610	122	Low	19.888	19.124	18.482	19.768	38.027	-	-
			Mid	36.275	18.749	18.315	37.265	-	78.320	78.062
			High	20.179	19.259	18.620	19.885	38.229	-	-
	5690	138	Low	20.221	19.206	18.578	19.847	37.889	-	-
			Mid	36.204	18.837	18.127	37.265	-	78.190	78.056
			High	20.154	19.247	18.695	19.865	38.102	-	-
UNII 3	5775	155	Low	19.761	19.186	18.497	19.943	37.928	-	-
			Mid	36.001	18.819	18.209	37.454	-	78.455	77.970
			High	20.153	19.430	18.479	19.898	37.997	-	-

10.2.2 MIMO 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	19.74	19.80	19.46	-	-
			Mid	17.80	17.96	-	20.80	20.51
			High	19.94	19.94	19.43	-	-
	5200	40	Low	20.86	20.96	22.00	-	-
			Mid	18.14	18.45	-	27.93	29.75
			High	20.40	20.90	22.27	-	-
	5240	48	Low	21.76	21.44	22.26	-	-
			Mid	18.17	18.37	-	30.47	32.51
			High	20.83	21.26	22.10	-	-
UNII 2A	5260	52	Low	21.61	21.90	22.56	-	-
			Mid	18.02	18.58	-	33.24	29.43
			High	20.77	21.14	22.13	-	-
	5280	56	Low	21.49	22.25	21.69	-	-
			Mid	18.34	18.42	-	31.30	33.65
			High	21.76	20.89	22.55	-	-
	5320	64	Low	19.98	19.95	19.58	-	-
			Mid	17.37	17.85	-	20.72	20.75
			High	19.95	19.57	19.41	-	-
UNII 2C	5500	100	Low	19.83	20.04	19.59	-	-
			Mid	17.92	18.06	-	20.81	20.56
			High	19.77	19.65	19.73	-	-
	5600	120	Low	20.93	21.19	22.37	-	-
			Mid	18.34	18.58	-	30.73	32.85
			High	21.38	21.76	22.03	-	-
	5720	144	Low	21.69	21.19	22.06	-	-
			Mid	18.01	18.47	-	33.94	33.25
			High	21.17	21.20	22.58	-	-
UNII 3	5745	149	Low	21.61	21.58	22.88	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
			Mid	18.19	18.38	-	32.75	31.95
			High	21.33	21.08	22.03	-	-
			Low	21.85	21.91	22.14	-	-
	5785	157	Mid	18.22	18.40	-	32.70	34.33
			High	21.02	21.11	21.29	-	-
			Low	21.44	21.68	22.24	-	-
	5825	165	Mid	17.99	18.54	-	32.79	33.82
			High	20.91	20.96	21.95	-	-
			Low	21.44	21.68	22.24	-	-

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	22.27	21.46	23.70	25.89	-	-
			Mid	22.26	22.74	23.38	-	64.20	61.51
			High	21.35	21.72	22.61	25.67	-	-
	5230	46	Low	22.15	21.58	22.73	26.03	-	-
			Mid	22.21	22.71	23.29	-	59.47	60.36
			High	21.67	22.76	22.87	25.74	-	-
UNII 2A	5270	54	Low	21.61	21.37	22.20	25.85	-	-
			Mid	22.23	23.07	23.44	-	58.01	59.10
			High	21.13	22.47	22.48	25.45	-	-
	5310	62	Low	21.68	21.29	22.59	25.32	-	-
			Mid	22.27	23.07	23.25	-	58.12	62.61
			High	21.78	22.12	22.73	25.54	-	-
UNII 2C	5510	102	Low	20.39	20.27	20.48	23.29	-	-
			Mid	21.67	22.34	21.93	-	42.07	41.62
			High	20.92	20.83	20.59	22.95	-	-
	5590	118	Low	22.02	21.69	22.45	26.08	-	-
			Mid	22.11	22.43	23.27	-	57.90	60.47
			High	21.83	22.55	22.82	25.28	-	-
	5710	142	Low	22.54	21.97	22.43	26.29	-	-
			Mid	21.83	22.34	23.23	-	57.50	60.45
			High	20.85	22.49	22.46	25.42	-	-
UNII 3	5755	151	Low	21.24	22.07	22.29	25.61	-	-
			Mid	21.07	22.62	23.19	-	63.13	60.29
			High	21.40	21.56	22.61	25.79	-	-
	5795	159	Low	21.74	22.08	22.43	26.45	-	-
			Mid	23.03	22.48	23.34	-	63.34	60.17
			High	21.10	22.14	22.71	26.05	-	-

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	23.68	23.22	24.00	25.89	45.44	-	-
			Mid	38.46	23.03	23.87	42.84	-	97.97	96.66
			High	22.42	22.38	24.36	26.22	45.45	-	-
UNII 2A	5290	58	Low	22.09	22.84	23.71	26.92	45.57	-	-
			Mid	38.29	22.99	23.46	44.08	-	96.27	94.90
			High	21.76	22.46	23.31	26.43	44.72	-	-
UNII 2C	5530	106	Low	20.66	20.18	20.96	24.17	42.78	-	-
			Mid	38.08	22.03	23.54	42.16	-	81.05	81.51
			High	21.30	20.25	21.06	24.84	42.81	-	-
	5610	122	Low	22.28	22.70	23.11	27.32	44.62	-	-
			Mid	37.67	22.50	22.81	43.83	-	99.29	99.47
			High	23.39	23.22	24.08	27.04	45.01	-	-
	5690	138	Low	22.87	22.34	23.81	43.18	45.13	-	-
			Mid	38.28	22.64	23.46	44.71	-	96.02	99.53
			High	22.82	22.52	22.96	26.36	46.64	-	-
UNII 3	5775	155	Low	23.48	22.91	23.20	26.76	44.68	-	-
			Mid	38.35	22.24	22.97	43.04	-	98.85	98.17
			High	22.10	23.82	23.36	27.05	45.61	-	-

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	17.727	17.797	17.695	-	-
			Mid	15.685	15.787	-	18.883	18.728
			High	17.998	17.838	17.632	-	-
	5200	40	Low	18.489	18.446	18.388	-	-
			Mid	16.904	17.194	-	19.554	19.591
			High	18.534	18.520	18.316	-	-
	5240	48	Low	19.236	18.387	18.346	-	-
			Mid	16.853	17.103	-	19.541	19.574
			High	18.999	18.307	18.277	-	-
UNII 2A	5260	52	Low	18.823	18.660	18.362	-	-
			Mid	16.663	17.105	-	19.501	19.620
			High	18.918	18.530	18.291	-	-
	5280	56	Low	19.066	18.521	18.349	-	-
			Mid	17.068	17.146	-	19.595	19.510
			High	19.173	18.316	18.317	-	-
	5320	64	Low	17.954	17.852	17.683	-	-
			Mid	15.052	15.674	-	18.733	18.760
			High	17.751	17.744	17.631	-	-
UNII 2C	5500	100	Low	17.940	17.631	17.689	-	-
			Mid	15.526	15.888	-	18.840	18.777
			High	17.590	17.703	17.657	-	-
	5600	120	Low	18.563	18.540	18.339	-	-
			Mid	17.084	17.133	-	19.532	19.502
			High	18.575	18.502	18.342	-	-
	5720	144	Low	18.941	18.488	18.329	-	-
			Mid	16.795	17.133	-	19.600	19.566
			High	19.031	18.390	18.322	-	-
UNII 3	5745	149	Low	18.995	18.595	18.313	-	-
			Mid	16.745	17.118	-	19.650	19.571
			High	19.153	18.476	18.418	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)				
				26 T	52 T	106 T	242 T	SU
	5785	157	Low	19.238	18.532	18.308	-	-
			Mid	16.804	17.076	-	19.541	19.499
			High	19.057	18.541	18.372	-	-
	5825	165	Low	18.990	18.626	18.314	-	-
			Mid	16.619	16.945	-	19.473	19.690
			High	18.879	18.422	18.390	-	-

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	19.330	18.688	18.049	19.286	-	-
			Mid	20.218	19.301	18.833	-	39.399	38.956
			High	18.712	18.429	18.176	19.304	-	-
	5230	46	Low	18.842	18.603	17.985	19.180	-	-
			Mid	19.830	19.264	18.754	-	39.460	39.043
			High	18.659	18.516	18.102	19.295	-	-
UNII 2A	5270	54	Low	19.091	18.453	18.065	19.207	-	-
			Mid	19.909	19.282	18.843	-	39.473	39.025
			High	19.072	18.497	18.121	19.271	-	-
	5310	62	Low	18.951	18.365	18.085	19.184	-	-
			Mid	19.819	19.399	18.846	-	39.436	38.921
			High	18.996	18.538	18.148	19.303	-	-
UNII 2C	5510	102	Low	18.184	17.933	17.679	18.882	-	-
			Mid	19.290	18.782	18.199	-	37.953	37.532
			High	18.252	18.038	17.646	18.830	-	-
	5590	118	Low	19.124	18.337	18.005	19.208	-	-
			Mid	19.882	19.218	18.807	-	39.552	38.993
			High	18.967	18.512	18.195	19.217	-	-
	5710	142	Low	19.283	18.468	18.000	19.201	-	-
			Mid	19.767	19.364	18.846	-	39.428	38.889
			High	18.790	18.592	18.148	19.161	-	-
UNII 3	5755	151	Low	19.097	18.663	18.075	19.339	-	-
			Mid	18.203	19.406	18.889	-	39.427	38.961
			High	19.002	18.651	18.161	19.251	-	-
	5795	159	Low	19.218	18.462	18.101	19.249	-	-
			Mid	20.011	19.414	18.853	-	39.414	39.021
			High	19.215	18.601	18.136	19.311	-	-

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	20.064	19.313	18.702	19.927	38.023	-	-
			Mid	36.519	18.987	18.426	37.423	-	78.055	78.317
			High	20.145	19.254	18.858	19.990	38.019	-	-
UNII 2A	5290	58	Low	20.295	19.371	18.537	19.889	37.953	-	-
			Mid	35.988	19.058	18.193	37.422	-	78.321	78.296
			High	19.941	19.350	18.658	20.006	37.990	-	-
UNII 2C	5530	106	Low	18.376	18.165	17.833	19.355	37.630	-	-
			Mid	35.792	18.775	18.433	36.773	-	76.783	76.589
			High	18.518	18.166	18.006	19.480	37.492	-	-
	5610	122	Low	20.107	19.127	18.585	19.985	37.972	-	-
			Mid	35.589	18.872	18.425	37.390	-	78.259	77.911
			High	20.087	19.591	18.773	19.907	38.015	-	-
	5690	138	Low	20.514	19.264	18.562	19.927	37.996	-	-
			Mid	36.014	18.934	18.298	37.500	-	78.167	77.955
			High	20.115	19.144	18.562	20.038	38.054	-	-
UNII 3	5775	155	Low	20.049	19.367	18.450	19.924	37.980	-	-
			Mid	35.687	18.865	18.224	37.416	-	78.140	78.013
			High	19.499	19.286	18.805	19.942	38.089	-	-

10.2.3 MIMO 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	19.54	19.87	19.68	-	-
			Mid	17.76	17.92	-	20.43	20.32
			High	19.73	19.56	19.28	-	-
	5200	40	Low	20.81	21.01	21.47	-	-
			Mid	17.88	17.99	-	30.01	33.65
			High	20.63	20.89	21.21	-	-
	5240	48	Low	20.87	21.24	21.43	-	-
			Mid	17.97	18.37	-	33.83	33.24
			High	20.65	20.62	21.62	-	-
UNII 2A	5260	52	Low	20.94	20.69	21.18	-	-
			Mid	17.81	18.10	-	31.01	30.18
			High	21.12	21.06	21.50	-	-
	5280	56	Low	20.38	20.90	21.73	-	-
			Mid	17.93	18.22	-	28.63	32.31
			High	20.47	21.40	21.69	-	-
	5320	64	Low	19.28	19.40	19.39	-	-
			Mid	17.75	18.14	-	20.82	20.91
			High	19.83	19.58	19.28	-	-
UNII 2C	5500	100	Low	18.91	19.45	19.35	-	-
			Mid	17.73	17.90	-	20.30	20.74
			High	19.59	19.65	19.27	-	-
	5600	120	Low	20.50	20.95	21.39	-	-
			Mid	18.04	18.44	-	30.48	28.21
			High	20.50	21.12	21.30	-	-
	5720	144	Low	20.10	20.88	21.67	-	-
			Mid	16.96	18.23	-	30.56	33.94
			High	20.60	21.16	21.13	-	-

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	20.64	21.14	21.13	-	-
			Mid	18.11	17.85	-	29.54	27.98
			High	20.37	21.20	21.32	-	-
	5785	157	Low	20.77	20.64	21.31	-	-
			Mid	18.15	18.38	-	32.61	32.20
			High	20.84	21.29	22.13	-	-
	5825	165	Low	20.28	20.96	21.55	-	-
			Mid	18.00	18.38	-	33.14	30.96
			High	20.11	20.38	21.72	-	-

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	21.37	21.09	22.76	25.17	-	-
			Mid	21.58	21.79	22.91	-	64.91	55.07
			High	21.19	21.97	22.13	25.30	-	-
	5230	46	Low	20.99	21.84	21.83	25.00	-	-
			Mid	22.13	22.47	22.85	-	64.01	53.19
			High	21.28	21.89	21.80	24.91	-	-
UNII 2A	5270	54	Low	21.08	21.53	22.21	25.03	-	-
			Mid	22.23	22.11	22.57	-	63.09	61.88
			High	21.07	21.81	22.07	25.82	-	-
	5310	62	Low	20.64	22.26	22.83	24.94	-	-
			Mid	21.85	22.35	22.18	-	61.99	57.45
			High	21.22	21.82	22.33	25.07	-	-
UNII 2C	5510	102	Low	20.01	19.90	20.37	22.83	-	-
			Mid	21.48	22.83	21.73	-	42.50	41.52
			High	19.92	19.99	20.31	23.12	-	-
	5590	118	Low	21.16	21.43	21.82	25.70	-	-
			Mid	21.73	22.02	23.52	-	63.41	59.89
			High	20.70	21.30	22.74	25.08	-	-
	5710	142	Low	21.20	21.64	22.18	24.96	-	-
			Mid	21.43	22.36	23.51	-	63.11	57.58
			High	20.50	21.17	22.39	24.74	-	-
UNII 3	5755	151	Low	21.05	21.60	22.14	24.83	-	-
			Mid	22.27	22.39	23.67	-	64.74	55.75
			High	20.29	21.61	22.93	25.18	-	-
	5795	159	Low	20.74	21.33	22.01	26.19	-	-
			Mid	21.69	22.29	23.09	-	64.59	62.49
			High	21.15	20.99	22.95	25.52	-	-

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	21.93	22.36	23.44	26.06	45.04	-	-
			Mid	36.77	21.83	22.82	42.26	-	93.01	96.78
			High	21.96	23.11	23.53	27.66	44.91	-	-
UNII 2A	5290	58	Low	22.64	23.09	23.67	26.69	46.03	-	-
			Mid	38.33	22.40	23.55	42.15	-	103.2	94.02
			High	22.56	21.94	23.47	25.97	44.77	-	-
UNII 2C	5530	106	Low	20.23	20.42	20.83	23.79	42.14	-	-
			Mid	38.08	22.11	23.17	41.49	-	81.30	81.32
			High	20.44	20.92	21.16	24.34	42.41	-	-
	5610	122	Low	21.67	22.25	23.46	26.44	45.38	-	-
			Mid	38.57	21.86	22.86	42.04	-	100.2	99.29
			High	21.74	22.25	23.30	26.07	44.62	-	-
	5690	138	Low	21.89	22.87	23.15	25.66	44.50	-	-
			Mid	38.32	21.14	23.15	42.21	-	104.8	102.6
			High	22.03	22.15	22.71	25.83	44.81	-	-
UNII 3	5775	155	Low	22.35	22.82	23.75	26.35	44.88	-	-
			Mid	38.63	22.10	22.72	42.31	-	101.1	99.74
			High	22.65	23.15	23.65	25.99	45.59	-	-

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	17.923	17.723	17.541	-	-
			Mid	15.496	15.690	-	18.760	18.732
			High	18.067	17.627	17.567	-	-
	5200	40	Low	18.816	18.293	18.224	-	-
			Mid	16.685	16.744	-	19.518	19.514
			High	18.742	18.290	18.253	-	-
	5240	48	Low	18.746	18.369	18.272	-	-
			Mid	16.760	17.105	-	19.452	19.565
			High	18.538	18.367	18.263	-	-
UNII 2A	5260	52	Low	18.434	18.232	18.249	-	-
			Mid	16.579	16.860	-	19.599	19.587
			High	18.761	18.283	18.264	-	-
	5280	56	Low	18.517	18.420	18.260	-	-
			Mid	16.891	17.012	-	19.524	19.488
			High	18.397	18.412	18.262	-	-
	5320	64	Low	17.857	17.648	17.612	-	-
			Mid	15.178	15.740	-	18.744	18.764
			High	17.865	17.784	17.593	-	-
UNII 2C	5500	100	Low	17.306	17.651	17.611	-	-
			Mid	15.446	15.602	-	18.775	18.706
			High	17.302	17.680	17.581	-	-
	5600	120	Low	18.670	18.392	18.235	-	-
			Mid	16.997	16.991	-	19.513	19.530
			High	18.873	18.407	18.267	-	-
	5720	144	Low	18.527	18.349	18.227	-	-
			Mid	15.870	16.852	-	19.579	19.464
			High	18.831	18.452	18.274	-	-
UNII 3	5745	149	Low	18.642	18.364	18.257	-	-
			Mid	16.372	16.611	-	19.462	19.509
			High	18.885	18.290	18.099	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)				
				26 T	52 T	106 T	242 T	SU
	5785	157	Low	18.637	18.225	18.302	-	-
			Mid	16.994	17.009	-	19.571	19.490
			High	18.885	18.385	18.311	-	-
	5825	165	Low	18.592	18.386	18.254	-	-
			Mid	16.686	16.998	-	19.487	19.572
			High	18.590	18.189	18.278	-	-

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	19.027	18.281	17.988	19.144	-	-
			Mid	19.699	19.071	18.748	-	39.761	39.006
			High	18.786	18.385	17.935	19.141	-	-
	5230	46	Low	18.764	18.413	17.986	19.137	-	-
			Mid	19.684	18.960	18.679	-	39.703	38.850
			High	18.923	18.308	17.854	19.186	-	-
UNII 2A	5270	54	Low	18.184	18.098	18.031	19.137	-	-
			Mid	19.909	19.070	18.750	-	39.797	38.818
			High	18.687	18.356	17.965	19.239	-	-
	5310	62	Low	18.742	18.270	18.123	19.149	-	-
			Mid	19.488	19.122	18.712	-	39.736	38.908
			High	18.830	18.384	17.988	19.169	-	-
UNII 2C	5510	102	Low	18.210	17.789	17.654	18.813	-	-
			Mid	19.194	18.726	18.085	-	38.067	37.580
			High	18.154	17.854	17.665	18.896	-	-
	5590	118	Low	18.961	18.378	18.102	19.196	-	-
			Mid	19.561	19.093	18.703	-	39.800	38.888
			High	18.332	18.390	18.005	19.278	-	-
	5710	142	Low	19.063	18.394	18.127	19.135	-	-
			Mid	19.612	19.093	18.793	-	39.704	39.052
			High	18.377	18.231	18.063	19.321	-	-
UNII 3	5755	151	Low	18.887	18.297	18.030	19.203	-	-
			Mid	19.686	19.085	18.716	-	39.817	38.969
			High	18.268	18.436	18.001	19.147	-	-
	5795	159	Low	18.760	18.262	18.136	19.161	-	-
			Mid	19.616	19.222	18.696	-	39.834	38.999
			High	19.010	18.404	18.145	19.317	-	-

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	19.287	18.882	18.309	19.608	37.908	-	-
			Mid	34.865	18.440	18.265	37.368	-	78.219	77.997
			High	19.791	19.018	18.484	19.692	37.945	-	-
UNII 2A	5290	58	Low	19.819	18.992	18.522	19.710	37.922	-	-
			Mid	35.859	18.660	18.260	37.286	-	78.324	78.700
			High	19.680	18.929	18.527	19.684	37.920	-	-
UNII 2C	5530	106	Low	18.491	18.043	17.743	19.286	37.399	-	-
			Mid	35.785	18.794	18.320	36.787	-	76.502	76.576
			High	18.419	18.005	17.848	19.198	37.528	-	-
	5610	122	Low	19.835	18.944	18.246	19.614	37.978	-	-
			Mid	35.485	18.737	18.264	37.327	-	78.208	78.037
			High	19.014	19.233	18.467	19.719	37.923	-	-
	5690	138	Low	19.387	19.160	18.475	19.860	37.954	-	-
			Mid	35.982	18.205	18.394	37.134	-	78.492	77.969
			High	18.993	18.979	18.480	19.671	37.978	-	-
UNII 3	5775	155	Low	19.725	19.145	18.308	19.712	37.898	-	-
			Mid	35.848	18.602	18.246	37.177	-	78.610	77.949
			High	19.870	19.219	18.519	19.823	38.033	-	-

10.3 6 dB BANDWIDTH

10.3.1 SISO 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	2.061	17.09	17.20	-	-
			Mid	2.653	13.83	-	19.56	19.61
			High	2.139	15.78	17.20	-	-
	5785	157	Low	2.082	13.31	17.22	-	-
			Mid	2.702	13.83	-	19.61	19.63
			High	2.074	14.52	17.20	-	-
	5825	165	Low	2.126	17.00	17.17	-	-
			Mid	2.681	15.02	-	19.30	19.56
			High	2.045	17.03	17.20	-	-

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	2.146	16.61	16.65	18.91	-	-
			Mid	2.150	17.34	17.38	-	38.40	38.29
			High	2.166	16.64	16.64	18.93	-	-
	5795	159	Low	2.122	4.129	16.66	18.90	-	-
			Mid	2.169	17.30	17.36	-	38.25	38.26
			High	2.154	16.60	16.66	18.93	-	-

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	2.220	15.49	16.82	18.93	37.84	-	-
			Mid	2.783	13.82	16.50	36.50	-	78.23	78.25
			High	2.239	16.64	16.79	18.95	37.92	-	-

Limit : > 0.5 MHz

10.3.2 MIMO 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	2.118	17.07	17.20	-	-
			Mid	2.603	15.04	-	19.33	19.51
			High	2.117	16.98	17.17	-	-
	5785	157	Low	2.083	17.06	17.19	-	-
			Mid	2.697	13.79	-	19.40	19.50
			High	2.141	17.01	17.20	-	-
	5825	165	Low	2.103	15.83	17.23	-	-
			Mid	2.681	15.06	-	19.28	19.48
			High	2.074	15.78	17.18	-	-

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	2.130	10.40	16.65	18.93	-	-
			Mid	2.141	16.03	17.37	-	38.24	38.38
			High	2.131	16.56	16.70	18.90	-	-
	5795	159	Low	2.141	16.64	16.66	18.90	-	-
			Mid	2.136	17.29	17.30	-	38.25	38.35
			High	2.155	16.61	16.70	18.90	-	-

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	2.226	16.62	16.78	18.92	37.85	-	-
			Mid	2.801	16.30	16.51	36.52	-	78.20	78.20
			High	2.233	15.48	16.79	18.92	37.96	-	-

Limit : > 0.5 MHz

10.3.3 MIMO 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	2.108	13.32	17.20	-	-
			Mid	2.647	15.04	-	19.45	19.18
			High	2.113	17.06	17.20	-	-
	5785	157	Low	2.103	17.08	17.18	-	-
			Mid	2.674	15.05	-	19.41	19.30
			High	2.073	17.06	17.21	-	-
	5825	165	Low	2.102	17.02	17.19	-	-
			Mid	2.647	15.03	-	19.32	19.37
			High	2.120	17.08	17.20	-	-

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	2.210	16.62	16.68	18.92	-	-
			Mid	2.145	17.33	17.37	-	38.56	38.26
			High	2.123	16.58	16.67	18.87	-	-
	5795	159	Low	2.156	16.64	16.66	18.91	-	-
			Mid	2.130	17.26	17.37	-	38.51	38.24
			High	2.167	14.11	16.68	18.88	-	-

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	2.254	15.36	16.70	18.93	37.83	-	-
			Mid	2.815	16.30	17.36	36.46	-	78.22	78.20
			High	2.255	15.45	16.89	18.97	37.92	-	-

Limit : > 0.5 MHz

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 SISO 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	8.58	12.46	15.20	-	-
				Mid	12.92	15.21	-	15.51	15.37
				High	7.89	12.35	15.12	-	-
		5200	40	Low	12.08	14.85	15.87	-	-
				Mid	11.74	14.78	-	15.91	15.75
				High	11.54	14.75	15.79	-	-
		5240	48	Low	12.18	14.98	16.01	-	-
				Mid	11.97	14.90	-	16.04	16.07
				High	11.97	14.84	15.90	-	-
	UNII 2a	5260	52	Low	11.87	14.77	15.52	-	-
				Mid	11.68	14.66	-	15.52	15.56
				High	11.68	14.61	15.39	-	-
		5280	56	Low	12.54	15.38	16.19	-	-
				Mid	12.41	15.28	-	16.23	16.25
				High	12.36	15.23	16.08	-	-
		5320	64	Low	9.22	12.49	15.21	-	-
				Mid	12.97	15.26	-	15.54	15.56
				High	9.09	12.38	15.13	-	-
	UNII 2c	5500	100	Low	-0.48	0.64	2.25	-	-
				Mid	3.78	3.48	-	2.48	14.93
				High	-0.98	0.27	2.03	-	-
		5600	120	Low	11.63	14.65	15.43	-	-
				Mid	11.45	14.56	-	15.48	15.52
				High	11.47	14.53	15.35	-	-
		5720	144	Low	11.56	14.36	15.68	-	-
				Mid	11.38	14.26	-	15.70	15.74
				High	11.44	14.23	15.57	-	-
	UNII 3	5745	149	Low	11.60	14.49	15.31	-	-
				Mid	11.42	14.33	-	15.31	15.35
				High	11.38	14.21	15.19	-	-

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
	5785	157	Low	11.89	14.52	15.84	-	-	
			Mid	11.61	14.35	-	15.79	15.84	
			High	11.57	14.20	15.62	-	-	
	5825	165	Low	11.61	14.46	15.85	-	-	
			Mid	11.46	14.36	-	15.93	15.92	
			High	11.52	14.37	15.80	-	-	

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	11.69	11.64	11.48	-	-
				Mid	11.05	10.95	11.20	-	11.26	14.44
				High	10.70	10.66	10.76	10.92	-	-
		5230	46	Low	12.17	14.27	14.32	14.37	-	-
				Mid	12.06	14.12	14.20	-	14.37	14.48
				High	12.02	14.11	14.17	14.24	-	-
	UNII 2a	5270	54	Low	12.29	14.25	14.28	14.25	-	-
				Mid	11.95	13.93	14.03	-	14.22	14.32
				High	11.94	13.93	14.02	14.06	-	-
		5310	62	Low	9.09	9.03	8.98	8.81	-	-
				Mid	8.33	8.25	8.52	-	8.55	12.14
				High	7.99	7.97	8.06	8.20	-	-
	UNII 2c	5510	102	Low	1.83	2.81	4.06	4.31	-	-
				Mid	3.69	3.76	4.27	-	4.11	10.15
				High	0.93	2.03	3.38	3.87	-	-
		5590	118	Low	12.33	14.26	14.32	14.33	-	-
				Mid	12.15	14.00	14.14	-	14.34	14.39
				High	12.12	14.10	14.20	14.24	-	-
	5710	142	Low	11.92	13.64	13.66	13.62	-	-	
			Mid	11.69	13.25	13.43	-	13.42	13.63	
			High	11.77	13.32	13.42	13.45	-	-	
	UNII 3	5755	151	Low	12.12	14.03	14.05	13.71	-	-
				Mid	11.72	13.58	13.77	-	13.68	13.68
				High	11.61	13.58	13.62	13.43	-	-
5795		159	Low	12.14	13.94	13.94	13.84	-	-	
			Mid	11.51	13.38	13.57	-	13.72	13.74	
			High	11.59	13.39	13.46	13.52	-	-	

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	11.96	11.95	11.99	11.95	11.94	-	-
				Mid	11.20	10.88	10.78	11.52	-	11.67	11.60
				High	10.03	10.12	10.50	10.57	10.92	-	-
	UNII 2A	5290	58	Low	11.61	11.48	11.79	11.72	11.82	-	-
				Mid	11.60	11.32	11.27	11.61	-	11.95	11.93
				High	11.30	11.39	11.71	11.60	11.71	-	-
	UNII 2C	5530	106	Low	3.49	4.59	5.91	5.82	5.79	-	-
				Mid	5.45	5.14	4.97	5.66	-	5.54	11.31
				High	2.01	3.14	4.58	4.68	5.02	-	-
		5610	122	Low	11.35	11.41	11.64	11.53	11.53	-	-
				Mid	11.31	11.13	11.04	11.33	-	11.71	11.35
				High	11.34	11.40	11.63	11.52	11.52	-	-
		5690	138	Low	10.89	10.80	11.10	11.07	11.02	-	-
				Mid	10.87	10.67	10.61	10.88	-	11.13	11.10
				High	10.69	10.79	11.09	11.06	11.01	-	-
	UNII 3	5775	155	Low	11.22	11.19	11.56	11.52	11.45	-	-
				Mid	11.13	10.82	10.73	11.27	-	11.38	11.11
				High	10.65	10.79	11.10	10.96	11.06	-	-

10.4.2 MIMO 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	4.13	8.48	11.29	-	-
				Mid	8.66	11.24	-	11.54	11.54
				High	3.61	8.22	11.34	-	-
		5200	40	Low	8.54	11.22	12.30	-	-
				Mid	8.23	11.18	-	12.63	12.71
				High	8.13	11.24	12.31	-	-
		5240	48	Low	8.85	11.61	12.60	-	-
				Mid	8.54	11.56	-	12.70	12.76
				High	8.48	11.61	12.58	-	-
	UNII 2a	5260	52	Low	8.66	11.21	12.13	-	-
				Mid	8.39	11.17	-	12.58	12.64
				High	8.33	11.26	11.96	-	-
		5280	56	Low	8.45	11.21	12.02	-	-
				Mid	8.14	11.16	-	12.49	12.51
				High	8.06	11.25	11.99	-	-
		5320	64	Low	4.11	8.58	11.14	-	-
				Mid	9.02	11.48	-	11.63	11.66
				High	4.19	8.62	11.14	-	-
	UNII 2c	5500	100	Low	4.39	9.01	11.45	-	-
				Mid	9.24	11.85	-	11.94	11.99
				High	4.35	8.98	11.41	-	-
		5600	120	Low	8.24	11.14	12.17	-	-
				Mid	8.17	11.09	-	12.36	12.40
				High	8.28	11.16	12.13	-	-
		5720	144	Low	8.71	11.83	12.42	-	-
				Mid	8.65	11.76	-	12.54	12.57
				High	8.69	11.76	12.26	-	-
	UNII 3	5745	149	Low	9.16	12.27	12.60	-	-
				Mid	8.98	12.07	-	12.74	12.75
				High	8.99	11.96	12.47	-	-
5785		157	Low	9.03	11.79	12.55	-	-	
			Mid	8.87	11.66	-	12.37	12.39	
			High	8.81	11.57	12.33	-	-	
5825		165	Low	9.04	11.44	12.06	-	-	

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
				Mid	8.87	11.35	-	12.25	12.30
				High	8.88	11.31	12.01	-	-

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	8.56	10.20	9.77	9.66	-	-
				Mid	8.07	9.48	9.43	-	9.69	10.77
				High	7.93	9.23	9.11	9.25	-	-
		5230	46	Low	9.30	10.75	10.87	11.03	-	-
				Mid	8.73	10.67	10.79	-	11.28	11.34
				High	8.44	10.75	10.88	11.04	-	-
	UNII 2a	5270	54	Low	9.33	10.80	10.93	11.08	-	-
				Mid	8.76	10.64	10.81	-	11.38	11.40
				High	8.49	10.85	11.00	11.11	-	-
		5310	62	Low	8.36	8.80	8.62	8.66	-	-
				Mid	8.31	8.62	8.54	-	9.35	10.84
				High	8.54	8.79	8.72	8.74	-	-
	UNII 2c	5510	102	Low	5.78	6.90	8.12	8.57	-	-
				Mid	8.07	8.26	8.56	-	8.98	10.89
				High	5.81	6.89	8.10	8.56	-	-
		5590	118	Low	8.40	10.72	10.73	10.88	-	-
				Mid	8.06	10.53	10.60	-	10.70	10.69
				High	8.21	10.68	10.73	10.85	-	-
		5710	142	Low	9.13	11.20	11.29	11.35	-	-
				Mid	8.88	10.96	11.12	-	11.35	11.52
				High	8.93	11.00	11.11	11.21	-	-
UNII 3	5755	151	Low	9.54	11.34	11.42	11.44	-	-	
			Mid	9.14	10.99	11.19	-	11.56	11.53	
			High	9.09	10.94	11.06	11.20	-	-	
	5795	159	Low	9.47	11.35	11.41	11.35	-	-	
			Mid	9.08	10.77	11.06	-	11.12	11.34	
			High	9.03	10.71	10.83	10.97	-	-	

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	8.54	8.62	8.99	8.89	8.91	-	-
				Mid	8.17	7.60	7.54	8.38	-	8.42	8.34
				High	6.66	6.74	7.20	7.35	7.84	-	-
	UNII 2A	5290	58	Low	8.58	8.83	9.03	8.74	8.75	-	-
				Mid	7.69	7.74	7.67	8.16	-	8.58	8.39
				High	6.33	6.89	7.30	7.10	7.58	-	-
	UNII 2C	5530	106	Low	5.20	6.38	7.78	7.92	8.25	-	-
				Mid	7.87	7.60	7.56	8.04	-	8.27	8.12
				High	5.15	6.39	7.71	7.79	8.15	-	-
		5610	122	Low	7.41	7.33	7.74	7.74	7.95	-	-
				Mid	7.40	7.28	7.23	7.65	-	7.98	7.80
				High	7.24	7.32	7.72	7.71	7.91	-	-
		5690	138	Low	7.82	7.67	8.08	8.11	8.30	-	-
				Mid	7.81	7.62	7.56	8.04	-	8.48	8.34
				High	7.32	7.46	7.83	7.86	8.23	-	-
	UNII 3	5775	155	Low	8.28	8.49	8.88	8.82	8.96	-	-
				Mid	8.12	7.93	7.85	8.53	-	8.79	8.62
				High	7.31	7.54	7.84	7.85	8.19	-	-

10.4.3 MIMO 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	4.63	8.61	11.35	-	-
				Mid	9.00	11.31	-	11.90	11.75
				High	3.81	8.23	11.29	-	-
		5200	40	Low	8.34	11.25	12.06	-	-
				Mid	7.96	11.18	-	12.18	12.25
				High	7.74	11.17	12.00	-	-
		5240	48	Low	8.33	11.12	12.05	-	-
				Mid	8.00	11.07	-	12.30	12.36
				High	7.80	11.06	11.93	-	-
	UNII 2A	5260	52	Low	8.21	10.89	11.66	-	-
				Mid	7.86	10.83	-	12.00	12.02
				High	7.67	10.83	11.40	-	-
		5280	56	Low	8.68	11.59	12.43	-	-
				Mid	8.36	11.50	-	12.73	12.78
				High	8.16	11.49	12.31	-	-
		5320	64	Low	4.65	8.97	11.37	-	-
				Mid	9.46	11.81	-	12.02	12.07
				High	4.57	8.93	11.31	-	-
	UNII 2C	5500	100	Low	4.18	8.43	10.96	-	-
				Mid	9.02	11.27	-	11.41	11.44
				High	4.11	8.36	10.90	-	-
		5600	120	Low	8.21	11.24	11.85	-	-
				Mid	8.12	11.18	-	12.00	12.13
				High	8.17	11.21	11.79	-	-
		5720	144	Low	8.26	10.81	11.67	-	-
				Mid	8.17	10.74	-	11.80	11.84
				High	8.20	10.74	11.56	-	-
UNII 3	5745	149	Low	8.12	11.22	11.88	-	-	
			Mid	7.95	11.01	-	12.01	12.05	
			High	7.90	10.89	11.75	-	-	
	5785	157	Low	8.44	11.31	11.99	-	-	
			Mid	8.30	11.19	-	12.09	12.14	
			High	8.28	11.11	11.76	-	-	

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
		5825	165	Low	8.33	11.14	11.70	-	-
				Mid	8.20	11.07	-	11.96	11.91
				High	8.24	11.07	11.68	-	-

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	9.09	10.18	9.73	9.58	-	-
				Mid	8.42	9.34	9.34	-	9.52	10.72
				High	8.09	8.98	8.89	9.05	-	-
		5230	46	Low	8.89	10.48	10.64	10.79	-	-
				Mid	8.21	10.36	10.56	-	10.99	11.04
				High	7.83	10.37	10.56	10.73	-	-
	UNII 2A	5270	54	Low	9.00	10.53	10.70	10.75	-	-
				Mid	8.19	10.25	10.48	-	10.97	10.99
				High	7.81	10.32	10.49	10.62	-	-
		5310	62	Low	8.93	9.13	9.01	9.02	-	-
				Mid	8.69	8.87	8.85	-	9.57	11.14
				High	8.73	8.94	8.91	8.94	-	-
	UNII 2C	5510	102	Low	5.72	6.34	7.95	8.37	-	-
				Mid	7.90	8.04	8.22	-	8.51	10.43
				High	5.54	6.63	7.90	8.35	-	-
		5590	118	Low	8.63	10.58	10.64	10.75	-	-
				Mid	8.41	10.38	10.51	-	10.93	10.89
				High	8.54	10.46	10.55	10.68	-	-
		5710	142	Low	8.25	10.32	10.39	10.44	-	-
				Mid	8.15	10.06	10.21	-	10.60	10.58
				High	8.21	10.14	10.23	10.33	-	-
	UNII 3	5755	151	Low	8.78	10.50	10.58	10.65	-	-
				Mid	8.43	10.12	10.35	-	10.67	10.68
				High	8.41	10.05	10.19	10.36	-	-
5795		159	Low	8.76	10.62	10.67	10.66	-	-	
			Mid	8.41	10.12	10.36	-	10.69	10.69	
			High	8.41	10.10	10.22	10.34	-	-	

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	8.13	8.12	8.50	8.41	8.49	-	-
				Mid	7.72	7.18	7.13	7.92	-	8.27	8.15
				High	6.29	6.39	6.80	6.97	7.48	-	-
	UNII 2A	5290	58	Low	8.63	8.63	8.86	8.95	8.93	-	-
				Mid	7.85	7.59	7.47	8.39	-	8.83	8.66
				High	6.47	6.54	7.01	7.24	7.76	-	-
	UNII 2C	5530	106	Low	4.73	5.95	7.33	7.52	7.76	-	-
				Mid	7.75	7.49	7.41	7.81	-	8.15	7.97
				High	5.07	6.31	7.64	7.77	7.90	-	-
		5610	122	Low	7.78	7.60	7.93	7.86	8.01	-	-
				Mid	7.76	7.37	7.34	7.70	-	8.33	8.09
				High	7.77	7.58	7.92	7.85	8.00	-	-
		5690	138	Low	7.53	7.39	7.73	7.66	7.99	-	-
				Mid	7.52	7.30	7.29	7.63	-	7.81	7.64
				High	7.26	7.38	7.72	7.65	7.98	-	-
	UNII 3	5775	155	Low	7.44	7.60	7.85	7.81	8.06	-	-
				Mid	7.54	7.30	7.15	7.67	-	8.09	7.87
				High	7.11	7.27	7.43	7.36	7.62	-	-

10.4.4 SUM (MIMO Ant 1 + MIMO Ant 2)

HE20		Frequency [MHz]	Channel No.	RU Index	SUM Power (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output Power (dBm)	UNII 1	5180	36	Low	7.40	11.55	14.33	-	-
				Mid	11.84	14.29	-	14.74	14.66
				High	6.72	11.23	14.33	-	-
		5200	40	Low	11.45	14.24	15.19	-	-
				Mid	11.10	14.19	-	15.42	15.50
				High	10.95	14.22	15.17	-	-
		5240	48	Low	11.61	14.38	15.34	-	-
				Mid	11.29	14.33	-	15.51	15.57
				High	11.16	14.35	15.27	-	-
	UNII 2A	5260	52	Low	11.45	14.07	14.91	-	-
				Mid	11.14	14.01	-	15.31	15.35
				High	11.02	14.06	14.70	-	-
		5280	56	Low	11.58	14.41	15.24	-	-
				Mid	11.26	14.35	-	15.63	15.66
				High	11.12	14.38	15.16	-	-
		5320	64	Low	7.40	11.79	14.27	-	-
				Mid	12.25	14.66	-	14.84	14.88
				High	7.40	11.79	14.23	-	-
	UNII 2C	5500	100	Low	7.30	11.74	14.22	-	-
				Mid	12.14	14.58	-	14.69	14.74
				High	7.24	11.69	14.17	-	-
		5600	120	Low	11.23	14.20	15.02	-	-
				Mid	11.16	14.14	-	15.20	15.28
				High	11.23	14.19	14.97	-	-
		5720	144	Low	11.50	14.36	15.07	-	-
				Mid	11.43	14.29	-	15.20	15.23
				High	11.47	14.29	14.94	-	-
	UNII 3	5745	149	Low	11.68	14.79	15.27	-	-
				Mid	11.51	14.58	-	15.40	15.43
				High	11.49	14.47	15.14	-	-
5785		157	Low	11.76	14.57	15.29	-	-	
			Mid	11.60	14.44	-	15.24	15.28	
			High	11.56	14.36	15.06	-	-	
5825	165	Low	11.71	14.30	14.89	-	-		

HE20		Frequency [MHz]	Channel No.	RU Index	SUM Power (dBm)				
					26 T	52 T	106 T	242 T	SU
				Mid	11.56	14.22	-	15.12	15.12
				High	11.58	14.20	14.86	-	-

HE40		Frequency [MHz]	Channel No.	RU Index	SUM Power (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output Power (dBm)	UNII 1	5190	38	Low	11.84	13.20	12.76	12.63	-	-
				Mid	11.26	12.43	12.39	-	12.62	13.76
				High	11.02	12.12	12.01	12.16	-	-
		5230	46	Low	12.11	13.63	13.77	13.92	-	-
				Mid	11.49	13.53	13.69	-	14.15	14.20
				High	11.16	13.58	13.73	13.90	-	-
	UNII 2A	5270	54	Low	12.18	13.68	13.83	13.93	-	-
				Mid	11.49	13.46	13.66	-	14.19	14.21
				High	11.17	13.60	13.76	13.88	-	-
		5310	62	Low	11.66	11.98	11.83	11.85	-	-
				Mid	11.51	11.76	11.70	-	12.47	14.01
				High	11.65	11.88	11.83	11.85	-	-
	UNII 2C	5510	102	Low	8.76	9.64	11.04	11.48	-	-
				Mid	10.99	11.16	11.40	-	11.76	13.68
				High	8.69	9.77	11.01	11.47	-	-
		5590	118	Low	11.53	13.66	13.70	13.82	-	-
				Mid	11.25	13.46	13.56	-	13.82	13.80
				High	11.39	13.58	13.65	13.78	-	-
		5710	142	Low	11.72	13.79	13.87	13.93	-	-
				Mid	11.54	13.54	13.70	-	14.00	14.08
				High	11.60	13.60	13.71	13.80	-	-
	UNII 3	5755	151	Low	12.19	13.95	14.03	14.07	-	-
				Mid	11.81	13.59	13.80	-	14.15	14.14
				High	11.77	13.53	13.66	13.81	-	-
5795		159	Low	12.14	14.01	14.07	14.03	-	-	
			Mid	11.77	13.47	13.74	-	13.92	14.04	
			High	11.74	13.43	13.55	13.67	-	-	

HE80		Frequency [MHz]	Channel No.	RU Index	SUM Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1	5210	42	Low	11.35	11.39	11.76	11.66	11.72	-	-
				Mid	10.96	10.41	10.35	11.16	-	11.36	11.26
				High	9.49	9.58	10.01	10.17	10.67	-	-
	UNII 2A	5290	58	Low	11.62	11.74	11.95	11.86	11.85	-	-
				Mid	10.78	10.67	10.58	11.29	-	11.72	11.54
				High	9.41	9.73	10.17	10.18	10.68	-	-
	UNII 2C	5530	106	Low	7.98	9.18	10.57	10.73	11.02	-	-
				Mid	10.82	10.56	10.49	10.94	-	11.22	11.06
				High	8.12	9.36	10.69	10.79	11.04	-	-
		5610	122	Low	10.61	10.48	10.85	10.81	10.99	-	-
				Mid	10.59	10.33	10.30	10.68	-	11.17	10.96
				High	10.52	10.46	10.83	10.79	10.97	-	-
		5690	138	Low	10.69	10.54	10.92	10.90	11.16	-	-
				Mid	10.67	10.47	10.44	10.85	-	11.17	11.01
				High	10.30	10.43	10.79	10.76	11.12	-	-
UNII 3	5775	155	Low	10.89	11.08	11.40	11.36	11.54	-	-	
			Mid	10.85	10.64	10.52	11.13	-	11.46	11.27	
			High	10.22	10.42	10.65	10.62	10.92	-	-	

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

10.5 POWER SPECTRAL DENSITY

10.5.1 SISO 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	5.929	7.864	8.351	-	-
				Mid	9.267	10.261	-	4.932	4.800
				High	5.389	7.854	8.415	-	-
		5200	40	Low	9.577	9.698	7.516	-	-
				Mid	7.703	9.423	-	3.806	3.919
				High	8.882	9.381	7.360	-	-
		5240	48	Low	9.835	9.510	7.800	-	-
				Mid	8.384	9.416	-	4.551	4.375
				High	9.614	9.361	7.668	-	-
	UNII 2A	5260	52	Low	9.454	9.285	7.378	-	-
				Mid	7.848	9.117	-	3.884	3.845
				High	8.839	9.073	7.037	-	-
		5280	56	Low	9.986	10.004	7.894	-	-
				Mid	8.580	10.076	-	4.358	4.464
				High	9.814	9.771	7.903	-	-
	5320	64	Low	5.846	8.188	8.339	-	-	
			Mid	9.548	10.353	-	4.915	5.284	
			High	5.682	8.023	8.348	-	-	
	UNII 2C	5500	100	Low	-3.194	-4.084	-4.679	-	-
				Mid	0.588	-1.803	-	-7.880	4.388
				High	-3.509	-4.269	-5.126	-	-
		5600	120	Low	9.311	9.307	7.260	-	-
				Mid	8.126	9.078	-	3.859	3.835
				High	9.153	9.032	7.124	-	-
		5720	144	Low	9.211	9.197	7.297	-	-
				Mid	7.980	9.163	-	3.891	4.076
				High	9.250	9.124	7.413	-	-
UNII 3	5745	149	Low	6.545	6.713	4.557	-	-	
			Mid	5.944	6.257	-	0.999	1.051	
			High	6.408	6.252	4.328	-	-	
	5785	157	Low	6.810	6.483	5.056	-	-	
			Mid	6.204	6.370	-	1.488	1.500	

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
				High	6.517	6.310	4.704	-	-
		5825	165	Low	6.566	6.685	4.854	-	-
				Mid	6.205	6.331	-	1.507	1.594
				High	6.493	6.584	4.913	-	-

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	9.008	6.179	3.386	-0.379	-	-
				Mid	8.382	5.573	3.050	-	-2.933	-0.421
				High	7.965	5.281	2.289	-0.828	-	-
		5230	46	Low	9.659	8.750	5.975	2.450	-	-
				Mid	9.646	8.740	5.880	-	-0.395	-0.308
				High	9.781	8.921	5.733	2.476	-	-
	UNII 2A	5270	54	Low	9.824	8.944	5.944	2.491	-	-
				Mid	9.424	8.583	5.793	-	-0.444	-0.389
				High	9.500	8.639	5.524	2.320	-	-
		5310	62	Low	6.596	3.586	0.723	-2.715	-	-
				Mid	5.657	3.206	0.406	-	-5.739	-2.676
				High	5.429	2.754	-0.319	-3.545	-	-
	UNII 2C	5510	102	Low	-0.832	-1.687	-3.442	-6.611	-	-
				Mid	1.085	-1.765	-3.813	-	-9.497	-4.007
				High	-1.270	-2.790	-3.898	-7.249	-	-
		5590	118	Low	9.843	8.926	6.040	2.495	-	-
				Mid	9.619	8.797	5.875	-	-0.299	-0.196
				High	9.483	8.815	5.845	2.536	-	-
		5710	142	Low	9.477	8.401	5.087	1.868	-	-
				Mid	9.081	7.894	5.059	-	-1.027	-0.887
				High	9.360	8.094	5.018	1.635	-	-
	UNII 3	5755	151	Low	6.749	5.669	2.664	-0.734	-	-
				Mid	6.577	5.348	2.462	-	-3.624	-3.742
				High	6.690	5.148	2.084	-1.049	-	-
5795		159	Low	6.676	5.979	2.870	-0.574	-	-	
			Mid	6.250	5.311	2.613	-	-3.525	-3.727	
			High	6.410	5.249	2.393	-0.996	-	-	

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	9.279	6.612	4.043	0.563	-2.491	-	-
				Mid	7.359	5.567	2.387	-0.142	-	-4.805	-4.732
				High	7.517	4.548	2.249	-1.233	-3.525	-	-
	UNII 2A	5290	58	Low	9.073	5.982	3.464	0.158	-2.858	-	-
				Mid	7.837	5.801	2.823	0.005	-	-5.370	-5.647
				High	8.693	6.070	3.558	-0.222	-3.002	-	-
	UNII 2C	5530	106	Low	0.998	-0.058	-1.410	-5.170	-8.245	-	-
				Mid	1.613	-0.239	-3.407	-5.888	-	-10.448	-6.080
				High	-0.577	-1.508	-2.689	-6.293	-9.181	-	-
		5610	122	Low	8.086	5.310	2.890	-0.775	-3.413	-	-
				Mid	7.029	5.518	2.164	-0.705	-	-6.008	-5.994
				High	8.353	5.668	2.994	-0.491	-3.382	-	-
		5690	138	Low	7.333	4.842	2.256	-0.834	-3.859	-	-
				Mid	6.958	5.158	1.698	-1.016	-	-6.617	-6.736
				High	8.086	5.285	2.608	-0.786	-3.658	-	-
UNII 3	5775	155	Low	4.974	2.494	-0.135	-3.570	-6.069	-	-	
			Mid	5.101	2.077	-1.104	-3.810	-	-8.692	-9.493	
			High	4.967	2.316	-0.553	-3.865	-7.002	-	-	

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

Limit(UNII 3) : 30.0 dBm/500 kHz

10.5.2 MIMO 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	1.756	3.534	4.174	-	-
				Mid	5.361	5.962	-	1.160	1.238
				High	1.453	3.482	4.218	-	-
		5200	40	Low	5.833	5.847	4.074	-	-
				Mid	4.784	5.990	-	0.867	0.880
				High	5.516	5.983	4.022	-	-
		5240	48	Low	6.168	6.368	4.434	-	-
				Mid	4.990	6.333	-	1.034	1.217
				High	5.931	6.184	4.208	-	-
	UNII 2A	5260	52	Low	6.079	5.932	4.034	-	-
				Mid	4.781	5.903	-	0.978	0.678
				High	5.481	5.876	3.854	-	-
		5280	56	Low	5.993	5.779	3.878	-	-
				Mid	4.761	5.851	-	0.741	0.553
				High	5.550	5.799	3.755	-	-
		5320	64	Low	2.065	4.146	4.552	-	-
				Mid	5.905	6.609	-	1.316	1.364
				High	1.871	4.232	4.604	-	-
	UNII 2C	5500	100	Low	2.419	4.397	4.516	-	-
				Mid	5.751	6.720	-	1.444	1.608
				High	2.508	4.633	4.857	-	-
		5600	120	Low	5.876	6.027	3.743	-	-
				Mid	4.704	6.025	-	0.580	0.684
				High	5.926	5.903	3.738	-	-
		5720	144	Low	6.537	6.313	4.515	-	-
				Mid	5.275	6.217	-	1.223	1.234
				High	6.337	6.212	4.443	-	-
UNII 3	5745	149	Low	4.078	4.246	1.853	-	-	
			Mid	3.740	4.028	-	-1.267	-1.316	
			High	4.142	4.074	1.808	-	-	
	5785	157	Low	3.808	3.619	1.590	-	-	
			Mid	3.067	3.222	-	-1.604	-1.577	
			High	3.626	3.252	1.127	-	-	

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
		5825	165	Low	3.880	3.555	1.494	-	-
				Mid	3.213	3.248	-	-1.793	-2.054
				High	3.583	3.800	1.341	-	-

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	6.304	4.234	1.329	-2.144	-	-
				Mid	5.756	3.412	1.211	-	-4.429	-3.665
				High	5.386	3.591	0.826	-2.475	-	-
		5230	46	Low	6.922	5.521	2.428	-0.716	-	-
				Mid	6.210	5.628	2.361	-	-2.995	-3.402
				High	5.932	5.610	2.618	-0.744	-	-
	UNII 2A	5270	54	Low	6.788	5.419	2.606	-0.691	-	-
				Mid	6.201	5.367	2.420	-	-3.293	-3.323
				High	6.005	5.321	2.497	-0.780	-	-
		5310	62	Low	5.818	2.930	0.222	-2.854	-	-
				Mid	5.654	2.970	0.002	-	-5.271	-3.975
				High	5.901	3.244	0.304	-2.869	-	-
	UNII 2C	5510	102	Low	3.231	2.084	0.805	-2.311	-	-
				Mid	5.140	2.764	0.613	-	-5.174	-3.228
				High	3.154	2.136	0.751	-2.552	-	-
		5590	118	Low	6.065	4.950	2.089	-1.172	-	-
				Mid	5.754	4.778	1.956	-	-3.852	-3.948
				High	5.857	4.988	2.179	-1.038	-	-
		5710	142	Low	6.458	5.897	3.016	-0.331	-	-
				Mid	6.318	5.638	2.737	-	-3.192	-3.083
				High	6.383	5.658	3.018	-0.322	-	-
	UNII 3	5755	151	Low	4.322	3.262	0.460	-2.989	-	-
				Mid	3.689	2.989	0.095	-	-5.873	-5.636
				High	3.685	2.830	0.097	-3.318	-	-
5795		159	Low	4.344	3.245	0.027	-3.233	-	-	
			Mid	3.811	2.818	-0.129	-	-6.007	-6.035	
			High	3.898	2.788	-0.335	-3.665	-	-	

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	5.311	2.940	0.609	-2.753	-5.566	-	-
				Mid	3.730	1.906	-0.795	-3.244	-	-8.635	-8.258
				High	3.216	0.846	-0.881	-4.193	-7.185	-	-
	UNII 2A	5290	58	Low	5.639	3.112	0.384	-3.003	-5.230	-	-
				Mid	3.843	1.966	-1.074	-3.607	-	-8.365	-8.375
				High	3.611	1.156	-1.245	-4.416	-6.708	-	-
	UNII 2C	5530	106	Low	2.494	1.632	0.528	-2.680	-5.779	-	-
				Mid	4.224	2.109	-0.975	-3.569	-	-8.923	-8.737
				High	2.396	1.846	0.081	-3.164	-6.203	-	-
		5610	122	Low	4.371	1.731	-0.541	-4.276	-6.728	-	-
				Mid	3.804	1.750	-1.265	-4.246	-	-9.003	-9.363
				High	4.312	1.721	-0.730	-4.301	-7.007	-	-
		5690	138	Low	4.748	2.257	-0.372	-3.380	-6.307	-	-
				Mid	4.207	2.082	-0.906	-3.890	-	-8.814	-8.839
				High	4.264	1.862	-0.495	-3.765	-6.504	-	-
	UNII 3	5775	155	Low	2.584	-0.045	-2.431	-5.844	-8.293	-	-
				Mid	2.147	-0.560	-3.184	-6.686	-	-11.337	-11.557
				High	1.944	-0.968	-3.409	-6.586	-9.369	-	-

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

Limit(UNII 3) : 30.0 dBm/500 kHz

10.5.3 MIMO 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	2.191	4.215	4.170	-	-
				Mid	5.558	6.489	-	1.530	1.367
				High	1.511	3.799	4.272	-	-
		5200	40	Low	6.196	6.116	3.683	-	-
				Mid	4.522	6.022	-	0.492	0.702
				High	5.409	5.991	3.520	-	-
		5240	48	Low	6.176	6.155	3.798	-	-
				Mid	4.889	6.211	-	0.651	0.663
				High	5.667	6.170	3.652	-	-
	UNII 2A	5260	52	Low	5.754	5.722	3.675	-	-
				Mid	4.326	5.620	-	0.649	0.246
				High	5.218	5.589	3.507	-	-
		5280	56	Low	6.483	6.283	4.118	-	-
				Mid	4.917	6.012	-	1.044	0.906
				High	5.688	6.458	3.804	-	-
		5320	64	Low	2.403	4.414	4.587	-	-
				Mid	6.176	6.891	-	1.829	1.728
				High	2.257	4.317	4.527	-	-
	UNII 2C	5500	100	Low	1.643	3.515	3.720	-	-
				Mid	5.414	6.034	-	1.056	0.771
				High	1.819	3.882	3.818	-	-
		5600	120	Low	5.927	6.066	3.672	-	-
				Mid	4.842	5.734	-	0.487	0.595
				High	5.722	5.710	3.486	-	-
		5720	144	Low	5.928	5.486	3.511	-	-
				Mid	4.770	5.528	-	0.315	0.458
				High	5.757	5.590	3.722	-	-
UNII 3	5745	149	Low	3.136	2.839	0.663	-	-	
			Mid	2.590	2.907	-	-2.673	-2.658	
			High	2.753	2.980	0.631	-	-	
	5785	157	Low	3.253	3.130	0.908	-	-	
			Mid	2.696	2.679	-	-2.524	-2.351	
			High	2.868	3.146	0.740	-	-	

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
		5825	165	Low	3.144	3.128	0.715	-	-
				Mid	2.695	3.029	-	-2.120	-2.182
				High	3.132	3.163	0.688	-	-

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	6.347	4.243	1.419	-1.731	-	-
				Mid	5.614	3.432	1.122	-	-4.583	-3.266
				High	5.122	3.292	0.603	-2.610	-	-
		5230	46	Low	6.772	5.107	2.455	-0.967	-	-
				Mid	5.784	5.364	2.115	-	-3.564	-3.508
				High	5.509	5.457	2.265	-0.846	-	-
	UNII 2A	5270	54	Low	6.708	4.985	1.963	-1.159	-	-
				Mid	5.820	4.777	1.814	-	-3.959	-3.682
				High	5.670	4.850	1.930	-1.344	-	-
		5310	62	Low	6.429	3.548	0.642	-2.401	-	-
				Mid	6.106	3.349	0.569	-	-5.222	-3.524
				High	6.215	3.454	0.619	-2.532	-	-
	UNII 2C	5510	102	Low	3.017	1.929	0.669	-2.446	-	-
				Mid	5.342	2.745	0.225	-	-5.237	-3.393
				High	2.836	1.801	0.503	-2.563	-	-
		5590	118	Low	6.269	5.200	2.312	-0.793	-	-
				Mid	5.804	4.929	2.141	-	-3.736	-3.528
				High	6.092	5.130	2.163	-1.095	-	-
		5710	142	Low	5.765	4.970	2.095	-1.470	-	-
				Mid	5.595	4.742	1.860	-	-3.896	-3.863
				High	5.915	4.781	2.074	-1.153	-	-
	UNII 3	5755	151	Low	3.306	2.278	-0.406	-3.862	-	-
				Mid	2.952	1.977	-0.719	-	-6.500	-6.440
				High	2.722	2.033	-0.764	-4.199	-	-
5795		159	Low	3.842	2.352	-0.534	-4.038	-	-	
			Mid	3.042	2.032	-0.881	-	-6.534	-6.374	
			High	3.194	2.168	-0.812	-3.988	-	-	

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	5.092	2.586	0.308	-3.016	-5.760	-	-
				Mid	3.645	1.677	-0.905	-3.422	-	-8.646	-8.698
				High	3.304	0.530	-1.267	-4.717	-7.194	-	-
	UNII 2A	5290	58	Low	5.957	3.307	0.536	-2.687	-5.533	-	-
				Mid	4.079	2.047	-0.650	-3.188	-	-8.116	-8.567
				High	3.790	1.078	-0.963	-4.674	-7.228	-	-
	UNII 2C	5530	106	Low	2.150	0.966	-0.155	-3.631	-6.264	-	-
				Mid	3.819	2.036	-1.015	-3.854	-	-8.460	-8.598
				High	2.247	1.464	0.339	-3.230	-5.907	-	-
		5610	122	Low	4.111	1.489	-0.685	-3.637	-6.429	-	-
				Mid	3.894	1.935	-1.149	-4.073	-	-9.134	-8.918
				High	4.489	1.970	-0.472	-3.794	-6.567	-	-
		5690	138	Low	3.764	1.445	-1.414	-4.565	-7.303	-	-
				Mid	3.198	1.792	-1.320	-4.530	-	-9.701	-9.738
				High	3.984	2.088	-1.037	-4.162	-7.082	-	-
UNII 3	5775	155	Low	1.739	-1.049	-3.320	-7.053	-9.378	-	-	
			Mid	1.754	-1.329	-4.192	-7.075	-	-12.012	-11.844	
			High	1.605	-1.343	-3.689	-7.421	-9.802	-	-	

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

Limit(UNII 3) : 30.0 dBm/500 kHz

10.5.4 SUM (MIMO Ant 1 +MIMO 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	4.989	6.898	7.182	-	-
				Mid	8.471	9.244	-	4.360	4.313
				High	4.492	6.654	7.256	-	-
		5200	40	Low	9.029	8.994	6.893	-	-
				Mid	7.665	9.016	-	3.694	3.802
				High	8.473	8.997	6.789	-	-
		5240	48	Low	9.182	9.273	7.138	-	-
				Mid	7.950	9.283	-	3.858	3.959
				High	8.811	9.187	6.949	-	-
	UNII 2A	5260	52	Low	8.930	8.839	6.869	-	-
				Mid	7.570	8.774	-	3.827	3.477
				High	8.362	8.745	6.694	-	-
		5280	56	Low	9.255	9.049	7.010	-	-
				Mid	7.850	8.943	-	3.906	3.743
				High	8.630	9.151	6.790	-	-
		5320	64	Low	5.248	7.292	7.580	-	-
				Mid	9.053	9.763	-	4.591	4.560
				High	5.079	7.285	7.576	-	-
	UNII 2C	5500	100	Low	5.059	6.989	7.147	-	-
				Mid	8.596	9.401	-	4.265	4.219
				High	5.187	7.284	7.379	-	-
		5600	120	Low	8.912	9.057	6.718	-	-
				Mid	7.784	8.892	-	3.545	3.650
				High	8.836	8.818	6.624	-	-
		5720	144	Low	9.254	8.929	7.052	-	-
				Mid	8.040	8.896	-	3.803	3.873
				High	9.067	8.922	7.108	-	-
UNII 3	5745	149	Low	6.643	6.609	4.309	-	-	
			Mid	6.213	6.514	-	1.097	1.074	
			High	6.513	6.572	4.270	-	-	
	5785	157	Low	6.550	6.392	4.273	-	-	
			Mid	5.896	5.969	-	0.971	1.063	
			High	6.274	6.210	3.948	-	-	

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
		5825	165	Low	6.538	6.357	4.132	-	-
				Mid	5.972	6.150	-	1.057	0.892
				High	6.374	6.503	4.037	-	-

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	9.336	7.249	4.385	1.078	-	-
				Mid	8.696	6.432	4.178	-	-1.495	-0.450
				High	8.267	6.455	3.727	0.469	-	-
		5230	46	Low	9.858	8.329	5.452	2.171	-	-
				Mid	9.013	8.508	5.251	-	-0.260	-0.444
				High	8.736	8.545	5.456	2.216	-	-
	UNII 2A	5270	54	Low	9.759	8.218	5.307	2.092	-	-
				Mid	9.025	8.092	5.138	-	-0.603	-0.488
				High	8.851	8.102	5.234	1.958	-	-
		5310	62	Low	9.145	6.260	3.448	0.389	-	-
				Mid	8.897	6.174	3.306	-	-2.236	-0.733
				High	9.072	6.361	3.475	0.314	-	-
	UNII 2C	5510	102	Low	6.136	5.018	3.748	0.633	-	-
				Mid	8.253	5.765	3.434	-	-2.195	-0.299
				High	6.009	4.982	3.640	0.453	-	-
		5590	118	Low	9.179	8.087	5.213	2.032	-	-
				Mid	8.790	7.865	5.060	-	-0.783	-0.722
				High	8.987	8.070	5.182	1.944	-	-
		5710	142	Low	9.136	8.469	5.591	2.148	-	-
				Mid	8.982	8.224	5.331	-	-0.519	-0.445
				High	9.166	8.252	5.582	2.293	-	-
	UNII 3	5755	151	Low	6.854	5.808	3.059	-0.393	-	-
				Mid	6.347	5.523	2.718	-	-3.165	-3.009
				High	6.241	5.460	2.699	-0.725	-	-
		5795	159	Low	7.111	5.832	2.766	-0.606	-	-
				Mid	6.454	5.453	2.522	-	-3.252	-3.190
				High	6.571	5.499	2.444	-0.813	-	-

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	8.213	5.777	3.471	0.128	-2.652	-	-
				Mid	6.698	4.803	2.160	-0.321	-	-5.630	-5.462
				High	6.270	3.701	1.940	-1.436	-4.179	-	-
	UNII 2A	5290	58	Low	8.811	6.221	3.471	0.169	-2.369	-	-
				Mid	6.972	5.017	2.153	-0.382	-	-5.229	-5.459
				High	6.711	4.128	1.908	-1.532	-3.950	-	-
	UNII 2C	5530	106	Low	5.335	4.322	3.210	-0.119	-3.004	-	-
				Mid	7.036	5.083	2.015	-0.698	-	-5.675	-5.656
				High	5.332	4.670	3.222	-0.186	-3.042	-	-
		5610	122	Low	7.253	4.622	2.398	-0.934	-3.566	-	-
				Mid	6.859	4.854	1.803	-1.148	-	-6.058	-6.124
				High	7.411	4.858	2.411	-1.029	-3.771	-	-
		5690	138	Low	7.294	4.880	2.148	-0.921	-3.766	-	-
				Mid	6.742	4.950	1.902	-1.187	-	-6.225	-6.254
				High	7.136	4.987	2.252	-0.948	-3.773	-	-
	UNII 3	5775	155	Low	5.192	2.492	0.157	-3.396	-5.791	-	-
				Mid	4.965	2.083	-0.649	-3.865	-	-8.651	-8.687
				High	4.788	1.859	-0.537	-3.973	-6.570	-	-

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

Limit(UNII 3) : 30.0 dBm/500 kHz

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 SISO 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	17.40	4.20
				4	14.08	4.16
				7	14.08	5.32
				8	14.08	7.32
			52 T	37	17.44	4.36
				38	14.16	4.40
				39	14.20	4.36
				40	14.20	7.44
			106 T	53	17.80	4.80
				54	14.48	7.48
			242 T	61	22.88	14.32
			SU	-	22.36	14.44

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	18.60	4.20
				16	14.28	5.72
				17	14.28	7.48
			52 T	# 37	-	-
				41	19.08	4.44
				43	14.52	4.36
				44	14.52	7.72
			106 T	# 53	-	-
				# 54	-	-
				55	18.60	4.84
				56	15.16	7.96
			242 T	# 61	-	-
				62	18.60	7.80
			484 T	65	49.24	19.48
			SU	-	47.48	19.16

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	14.36	5.80
				36	14.52	9.16
			52 T	# 37	-	-
				# 45	-	-
				51	14.68	4.52
				52	14.84	8.52
			106 T	# 53	-	-
				# 57	-	-
				59	19.16	5.16
				60	15.32	8.68
			242 T	# 61	-	-
				# 62	-	-
				63	37.88	6.28
				64	19.32	8.84
			484 T	# 65	-	-
				66	37.88	9.00
			996 T	67	89.40	16.04
			SU	-	84.92	16.04

10.6.1.2 MIMO 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	17.44	4.20
				4	14.20	3.96
				7	14.12	5.60
				8	14.04	7.40
			52 T	37	16.96	4.44
				38	14.08	4.36
				39	14.20	4.48
				40	14.24	7.24
			106 T	53	17.00	4.80
				54	14.56	7.44
			242 T	61	23.48	12.60
			SU	-	20.64	10.92

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	18.36	4.20
				16	14.36	5.00
				17	14.36	7.72
			52 T	# 37	-	-
				41	18.36	4.44
				43	15.16	4.36
				44	15.16	7.56
			106 T	# 53	-	-
				# 54	-	-
				55	18.44	4.84
				56	15.48	7.24
			242 T	# 61	-	-
				62	18.36	7.00
			484 T	65	43.32	16.84
			SU	-	46.28	14.12

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	14.36	6.44
				36	14.84	8.20
			52 T	# 37	-	-
				# 45	-	-
				51	14.84	4.52
				52	14.68	8.04
			106 T	# 53	-	-
				# 57	-	-
				59	19.48	5.64
				60	15.48	8.36
			242 T	# 61	-	-
				# 62	-	-
				63	37.88	5.64
				64	19.48	7.88
			484 T	# 65	-	-
				66	37.72	8.52
			996 T	67	84.92	14.92
			SU	-	85.56	12.84

10.6.1.3 MIMO 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	16.84	4.12
				4	14.00	4.08
				7	14.04	4.76
				8	14.04	7.16
			52 T	37	17.00	4.16
				38	14.24	4.20
				39	14.28	4.24
				40	14.20	6.88
			106 T	53	17.36	4.36
				54	14.44	7.00
			242 T	61	23.92	10.64
			SU	-	23.92	10.72

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	17.72	4.28
				16	14.36	5.32
				17	14.36	7.00
			52 T	# 37	-	-
				41	17.96	4.44
				43	14.60	4.44
				44	14.60	7.40
			106 T	# 53	-	-
				# 54	-	-
				55	18.52	4.92
				56	15.48	7.16
			242 T	# 61	-	-
				62	18.12	7.64
			484 T	65	46.44	17.00
			SU	-	47.88	18.12

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	14.52	5.64
				36	14.68	8.52
			52 T	# 37	-	-
				# 45	-	-
				51	15.00	4.36
				52	15.16	8.52
			106 T	# 53	-	-
				# 57	-	-
				59	19.48	5.48
				60	15.32	8.04
			242 T	# 61	-	-
				# 62	-	-
				63	37.72	4.52
				64	19.32	8.52
			484 T	# 65	-	-
				66	37.24	7.72
			996 T	67	86.84	19.08
			SU	-	85.72	17.80

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 SISO 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	2.48
				8	4.56
			52 T	# 37	-
				# 38	-
				39	2.52
				40	4.56
			106 T	# 53	-
				54	4.60
			242 T	61	4.84
			SU	-	4.84

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	4.12
			484 T	65	4.12
			SU	-	4.20

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	2.60
				52	4.20
			106 T	# 53	-
				# 57	-
				59	2.76
				60	4.20
			242 T	# 61	-
				# 62	-
				63	2.76
				64	4.20
			484 T	# 65	-
66	4.20				
996 T	67	4.20			
SU	-	4.20			

10.6.2.2 MIMO 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	4.56
			52 T	# 37	-
				# 38	-
				39	2.52
				40	4.48
			106 T	# 53	-
				54	4.60
			242 T	61	4.72
			SU	-	4.68

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	2.60
				44	4.04
			106 T	# 53	-
				# 54	-
				55	2.60
				56	4.04
			242 T	# 61	-
				62	4.12
			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	2.76
				60	4.20
			242 T	# 61	-
				# 62	-
				63	2.76
				64	4.20
			484 T	# 65	-
66	4.20				
996 T	67	4.20			
SU	-	4.20			

10.6.2.3 MIMO 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	2.48
				8	4.52
			52 T	# 37	-
				# 38	-
				39	2.52
				40	4.52
			106 T	# 53	-
				54	4.60
			242 T	61	4.68
			SU	-	4.76

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	2.60
				44	4.12
			106 T	# 53	-
				# 54	-
				55	2.60
				56	4.12
			242 T	# 61	-
				62	4.12
			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	2.60
				52	4.20
			106 T	# 53	-
				# 57	-
				59	2.76
				60	4.20
			242 T	# 61	-
				# 62	-
				63	2.76
				64	4.20
			484 T	# 65	-
66	4.20				
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 SISO 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	11.62	-17.75
				4	11.37	-18.13
				7	-4.51	11.36
				8	-11.38	11.47
			52 T	37	14.28	-14.03
				38	14.18	-15.50
				39	13.67	3.89
				40	-4.13	14.08
			106 T	53	15.62	-10.33
				54	12.07	12.90
			242 T	61	14.42	9.43
			SU	-	14.55	9.55

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	11.53	-17.49
				16	1.97	11.17
				17	-11.97	11.63
			52 T	# 37	-	-
				41	13.31	-15.37
				43	13.36	-3.11
				44	1.13	13.25
			106 T	# 53	-	-
				# 54	-	-
				55	13.46	-11.81
				56	10.75	10.35
			242 T	# 61	-	-
				62	12.47	6.90
			484 T	65	13.20	3.99
			SU	-	13.20	4.10

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	1.44	10.51
				36	-11.41	10.82
			52 T	# 37	-	-
				# 45	-	-
				51	11.26	-5.44
				52	-1.48	10.59
			106 T	# 53	-	-
				# 57	-	-
				59	10.78	-15.06
				60	8.59	7.75
			242 T	# 61	-	-
				# 62	-	-
				63	10.90	-14.28
				64	10.06	4.29
			484 T	# 65	-	-
				66	10.51	1.29
			996 T	67	10.94	-1.46
			SU	-	10.84	-1.64

10.6.3.2 MIMO 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	9.97	-19.24
				4	9.75	-18.78
				7	-6.28	9.63
				8	-12.90	9.71
			52 T	37	12.48	-13.19
				38	12.43	-13.44
				39	11.85	2.21
				40	-4.86	12.38
			106 T	53	12.56	-10.54
				54	9.05	9.83
			242 T	61	11.46	6.38
			SU	-	11.66	6.60

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	9.85	-19.29
				16	0.38	9.46
				17	-13.06	9.86
			52 T	# 37	-	-
				41	10.87	-14.98
				43	10.84	-5.45
				44	-1.12	10.70
			106 T	# 53	-	-
				# 54	-	-
				55	10.98	-11.69
				56	8.32	7.78
			242 T	# 61	-	-
				62	10.21	4.50
			484 T	65	10.90	1.67
			SU	-	10.87	1.87

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	-1.88	7.11
				36	-15.18	7.39
			52 T	# 37	-	-
				# 45	-	-
				51	7.94	-8.54
				52	-4.42	7.23
			106 T	# 53	-	-
				# 57	-	-
				59	7.61	-15.67
				60	5.46	4.48
			242 T	# 61	-	-
				# 62	-	-
				63	7.94	-14.93
				64	6.91	1.07
			484 T	# 65	-	-
				66	7.74	-1.70
			996 T	67	8.20	-4.35
			SU	-	7.91	-4.42

10.6.3.3 MIMO 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	7.79	-21.83
				4	7.44	-21.24
				7	-8.27	7.35
				8	-14.79	7.53
			52 T	37	10.42	-15.61
				38	10.33	-16.04
				39	9.86	-0.01
				40	-6.68	10.20
			106 T	53	11.26	-11.70
				54	7.89	8.53
			242 T	61	10.19	5.23
			SU	-	10.62	5.54

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	7.68	-21.22
				16	-1.75	7.36
				17	-14.67	7.79
			52 T	# 37	-	-
				41	9.80	-16.02
				43	9.85	-6.55
				44	-2.06	9.63
			106 T	# 53	-	-
				# 54	-	-
				55	9.88	-12.73
				56	7.15	6.68
			242 T	# 61	-	-
				62	9.01	3.40
			484 T	65	9.82	0.60
			SU	-	9.94	0.99

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	-2.05	6.87
				36	-14.90	7.07
			52 T	# 37	-	-
				# 45	-	-
				51	7.39	-9.25
				52	-5.10	6.58
			106 T	# 53	-	-
				# 57	-	-
				59	6.80	-15.93
				60	4.62	3.76
			242 T	# 61	-	-
				# 62	-	-
				63	6.89	-15.77
				64	6.04	0.24
			484 T	# 65	-	-
				66	6.71	-2.57
			996 T	67	7.19	-5.70
			SU	-	7.08	-5.41

10.6.4 Power Spectral Density

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

10.6.4.1 SISO Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	8.849	-17.820
				4	7.892	-18.522
				7	0.228	6.078
				8	-15.276	6.192
			52 T	37	8.916	-16.475
				38	8.631	-17.111
				39	8.702	4.512
				40	-0.628	5.900
			106 T	53	7.137	-13.884
				54	6.980	4.195
			242 T	61	3.700	0.589
			SU	-	3.779	1.004

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	8.645	-23.075
				16	5.652	6.139
				17	-15.536	6.222
			52 T	# 37	-	-
				41	7.853	-18.880
				43	7.931	-5.820
				44	4.824	5.126
			106 T	# 53	-	-
				# 54	-	-
				55	4.898	-17.502
				56	5.104	2.290
			242 T	# 61	-	-
				62	1.724	-1.253
			484 T	65	-1.152	-4.399
			SU	-	-1.126	-3.880

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	4.515	5.350
				36	-15.634	5.270
			52 T	# 37	-	-
				# 45	-	-
				51	5.981	-9.991
				52	1.307	2.358
			106 T	# 53	-	-
				# 57	-	-
				59	2.554	-18.951
				60	2.919	-0.519
			242 T	# 61	-	-
				# 62	-	-
				63	-1.285	-20.703
				64	-0.556	-4.029
			484 T	# 65	-	-
				66	-3.577	-7.162
996 T	67	-6.292	-9.953			
SU	-	-6.565	-9.881			

10.6.4.2 MIMO Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	7.339	-21.947
				4	6.103	-24.567
				7	-1.387	4.240
				8	-18.108	4.473
			52 T	37	6.909	-18.007
				38	7.026	-17.545
				39	6.881	3.142
				40	-1.445	3.998
			106 T	53	4.184	-15.045
				54	3.970	1.142
			242 T	61	0.960	-2.241
			SU	-	1.046	-1.928

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	7.217	-22.226
				16	4.003	4.444
				17	-18.797	4.343
			52 T	# 37	-	-
				41	5.132	-21.088
				43	5.513	-9.064
				44	1.979	2.561
			106 T	# 53	-	-
				# 54	-	-
				55	2.393	-15.343
				56	2.459	-0.572
			242 T	# 61	-	-
				62	-0.758	-3.447
			484 T	65	-3.059	-6.146
			SU	-	-3.263	-6.365

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	1.230	1.705
				36	-20.380	1.590
			52 T	# 37	-	-
				# 45	-	-
				51	2.209	-13.540
				52	-2.405	-1.259
			106 T	# 53	-	-
				# 57	-	-
				59	-1.264	-18.955
				60	-0.711	-4.142
			242 T	# 61	-	-
				# 62	-	-
				63	-4.228	-22.188
				64	-3.992	-7.547
			484 T	# 65	-	-
66	-6.694	-10.596				
996 T	67	-8.862	-12.578			
SU	-	-9.322	-12.745			

10.6.4.3 MIMO Ant2
802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	5.267	-21.489
				4	3.992	-25.824
				7	-3.559	2.177
				8	-20.457	2.208
			52 T	37	4.903	-19.238
				38	4.980	-17.744
				39	4.927	1.129
				40	-3.914	2.006
			106 T	53	3.002	-16.128
				54	2.459	-0.418
			242 T	61	-0.426	-2.980
			SU	-	-0.037	-2.966

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	5.039	-25.166
				16	1.986	2.596
				17	-18.657	2.393
			52 T	# 37	-	-
				41	4.411	-18.440
				43	4.386	-9.576
				44	1.435	1.624
			106 T	# 53	-	-
				# 54	-	-
				55	1.601	-20.031
				56	1.346	-1.296
			242 T	# 61	-	-
				62	-1.970	-5.070
			484 T	65	-4.382	-7.283
			SU	-	-4.283	-7.379

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	0.718	1.911
				36	-24.240	1.840
			52 T	# 37	-	-
				# 45	-	-
				51	1.842	-13.103
				52	-3.070	-1.247
			106 T	# 53	-	-
				# 57	-	-
				59	-1.728	-22.492
				60	-1.143	-4.573
			242 T	# 61	-	-
				# 62	-	-
				63	-4.758	-24.269
				64	-4.573	-7.928
			484 T	# 65	-	-
				66	-7.132	-10.661
			996 T	67	-10.209	-13.514
			SU	-	-9.991	-13.537

10.7 RADIATED 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]	[dB μ V]	[dB/m]	[H/V]	[dB μ V/m]	[dB μ V/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 = $40 \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dB μ V) + Distance extrapolation factor

Frequency Range : Below 1 GHz

Frequency	Measured Value	A.F+C.L	ANT. POL	Total	Limit	Margin
[MHz]	[dB μ V]	[dB/m]	[H/V]	[dB μ V/m]	[dB μ V/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) Ant.2_SISO 26T RU4

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

Frequency [MHz]	Measured Level [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10360	53.86	-0.94	V	52.92	68.20	15.28	PK
15540	52.81	1.57	V	54.38	73.98	19.60	PK
15540	39.87	1.57	V	41.44	53.98	12.54	AV
10360	54.71	-0.94	H	53.77	68.20	14.43	PK
15540	51.96	1.57	H	53.53	73.98	20.45	PK
15540	38.65	1.57	H	40.22	53.98	13.76	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10400	52.94	-0.07	V	52.87	68.20	15.33	PK
15600	52.87	1.52	V	54.39	73.98	19.59	PK
15600	39.19	1.52	V	40.71	53.98	13.27	AV
10400	53.49	-0.07	H	53.42	68.20	14.78	PK
15600	51.45	1.52	H	52.97	73.98	21.01	PK
15600	38.24	1.52	H	39.76	53.98	14.22	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10480	52.01	-0.97	V	51.04	68.20	17.16	PK
15720	52.41	0.64	V	53.05	73.98	20.93	PK
15720	39.24	0.64	V	39.88	53.98	14.10	AV
10480	53.20	-0.97	H	52.23	68.20	15.97	PK
15720	51.58	0.64	H	52.22	73.98	21.76	PK
15720	38.69	0.64	H	39.33	53.98	14.65	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10520	55.77	-1.06	V	54.72	68.20	13.49	PK
15780	51.55	0.59	V	52.14	73.98	21.84	PK
15780	38.97	0.59	V	39.56	53.98	14.42	AV
10520	53.84	-1.06	H	52.79	68.20	15.42	PK
15780	51.03	0.59	H	51.62	73.98	22.36	PK
15780	38.54	0.59	H	39.13	53.98	14.85	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10600	55.26	-0.61	V	54.65	73.98	19.33	PK
10600	42.98	-0.61	V	42.37	53.98	11.61	AV
15900	52.23	0.25	V	52.48	73.98	21.50	PK
15900	40.00	0.25	V	40.25	53.98	13.73	AV
10600	53.77	-0.61	H	53.16	73.98	20.82	PK
10600	41.76	-0.61	H	41.15	53.98	12.83	AV
15900	51.38	0.25	H	51.63	73.98	22.35	PK
15900	39.65	0.25	H	39.90	53.98	14.08	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10640	54.74	-0.73	V	54.01	73.98	19.97	PK
10640	42.97	-0.73	V	42.24	53.98	11.74	AV
15960	52.54	0.53	V	53.07	73.98	20.91	PK
15960	39.72	0.53	V	40.25	53.98	13.73	AV
10640	53.65	-0.73	H	52.92	73.98	21.06	PK
10640	41.63	-0.73	H	40.90	53.98	13.08	AV
15960	51.42	0.53	H	51.95	73.98	22.03	PK
15960	39.26	0.53	H	39.79	53.98	14.19	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	53.27	-0.18	V	53.09	73.98	20.89	PK
11000	41.29	-0.18	V	41.11	53.98	12.87	AV
16500	51.55	0.60	V	52.15	68.20	16.05	PK
11000	54.35	-0.18	H	54.17	73.98	19.81	PK
11000	42.65	-0.18	H	42.47	53.98	11.51	AV
16500	52.59	0.60	H	53.19	68.20	15.01	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	55.85	-1.01	V	54.84	73.98	19.14	PK
11200	42.87	-1.01	V	41.86	53.98	12.12	AV
16800	52.17	-0.07	V	52.10	68.20	16.10	PK
11200	57.17	-1.01	H	56.16	73.98	17.82	PK
11200	44.05	-1.01	H	43.04	53.98	10.94	AV
16800	53.70	-0.07	H	53.63	68.20	14.57	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11440	52.95	-0.52	V	52.43	73.98	21.55	PK
11440	41.66	-0.52	V	41.14	53.98	12.84	AV
17160	51.67	0.64	V	52.31	68.20	15.89	PK
11440	54.00	-0.52	H	53.48	73.98	20.50	PK
11440	42.14	-0.52	H	41.62	53.98	12.36	AV
17160	52.40	0.64	H	53.04	68.20	15.16	PK

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

Frequency [MHz]	Measured Level [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11490	57.61	-0.38	V	57.23	73.98	16.75	PK
11490	45.79	-0.38	V	45.41	53.98	8.57	AV
17235	52.45	1.04	V	53.49	68.20	14.71	PK
11490	59.19	-0.38	H	58.81	73.98	15.17	PK
11490	46.43	-0.38	H	46.05	53.98	7.93	AV
17235	51.35	1.04	H	52.39	68.20	15.81	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11570	58.47	-0.29	V	58.18	73.98	15.81	PK
11570	45.86	-0.29	V	45.57	53.98	8.42	AV
17355	53.89	1.14	V	55.03	68.20	13.18	PK
11570	59.42	-0.29	H	59.13	73.98	14.86	PK
11570	47.31	-0.29	H	47.02	53.98	6.97	AV
17355	52.64	1.14	H	53.78	68.20	14.43	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11650	59.22	-1.16	V	58.06	73.98	15.92	PK
11650	45.89	-1.16	V	44.73	53.98	9.25	AV
17475	52.06	2.16	V	54.22	68.20	13.98	PK
11650	60.31	-1.16	H	59.15	73.98	14.83	PK
11650	47.25	-1.16	H	46.09	53.98	7.89	AV
17475	51.64	2.16	H	53.80	68.20	14.40	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.

2) Ant.2_SISO SU

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

Frequency [MHz]	Measured Level [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10360	54.69	-0.94	V	53.75	68.20	14.45	PK
15540	52.65	1.57	V	54.22	73.98	19.76	PK
15540	39.86	1.57	V	41.43	53.98	12.55	AV
10360	54.82	-0.94	H	53.88	68.20	14.32	PK
15540	52.75	1.57	H	54.32	73.98	19.66	PK
15540	40.01	1.57	H	41.58	53.98	12.40	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10400	53.84	-0.07	V	53.77	68.20	14.43	PK
15600	51.68	1.52	V	53.20	73.98	20.78	PK
15600	39.26	1.52	V	40.78	53.98	13.20	AV
10400	53.92	-0.07	H	53.85	68.20	14.35	PK
15600	51.74	1.52	H	53.26	73.98	20.72	PK
15600	39.42	1.52	H	40.94	53.98	13.04	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10480	53.74	-0.97	V	52.77	68.20	15.43	PK
15720	51.43	0.64	V	52.07	73.98	21.91	PK
15720	38.95	0.64	V	39.59	53.98	14.39	AV
10480	53.85	-0.97	H	52.88	68.20	15.32	PK
15720	51.49	0.64	H	52.13	73.98	21.85	PK
15720	39.12	0.64	H	39.76	53.98	14.22	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10520	53.84	-1.06	V	52.79	68.20	15.42	PK
15780	50.95	0.59	V	51.54	73.98	22.44	PK
15780	38.29	0.59	V	38.88	53.98	15.10	AV
10520	53.99	-1.06	H	52.94	68.20	15.27	PK
15780	51.10	0.59	H	51.69	73.98	22.29	PK
15780	38.40	0.59	H	38.99	53.98	14.99	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10600	53.05	-0.61	V	52.44	73.98	21.54	PK
10600	40.58	-0.61	V	39.97	53.98	14.01	AV
15900	51.54	0.25	V	51.79	73.98	22.19	PK
15900	39.21	0.25	V	39.46	53.98	14.52	AV
10600	53.12	-0.61	H	52.51	73.98	21.47	PK
10600	40.79	-0.61	H	40.18	53.98	13.80	AV
15900	51.60	0.25	H	51.85	73.98	22.13	PK
15900	39.31	0.25	H	39.56	53.98	14.42	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10640	52.94	-0.73	V	52.21	73.98	21.77	PK
10640	41.18	-0.73	V	40.45	53.98	13.53	AV
15960	51.39	0.53	V	51.92	73.98	22.06	PK
15960	38.94	0.53	V	39.47	53.98	14.51	AV
10640	53.70	-0.73	H	52.97	73.98	21.01	PK
10640	41.39	-0.73	H	40.66	53.98	13.32	AV
15960	51.46	0.53	H	51.99	73.98	21.99	PK
15960	39.51	0.53	H	40.04	53.98	13.94	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	54.12	-0.18	V	53.94	73.98	20.04	PK
11000	41.23	-0.18	V	41.05	53.98	12.93	AV
16500	52.46	0.60	V	53.06	68.20	15.14	PK
11000	54.05	-0.18	H	53.87	73.98	20.11	PK
11000	41.18	-0.18	H	41.00	53.98	12.98	AV
16500	52.14	0.60	H	52.74	68.20	15.46	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	55.34	-1.01	V	54.33	73.98	19.65	PK
11200	43.44	-1.01	V	42.43	53.98	11.55	AV
16800	53.94	-0.07	V	53.87	68.20	14.33	PK
11200	54.44	-1.01	H	53.43	73.98	20.55	PK
11200	42.54	-1.01	H	41.53	53.98	12.45	AV
16800	53.15	-0.07	H	53.08	68.20	15.12	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11440	56.77	-0.52	V	56.25	73.98	17.73	PK
11440	44.06	-0.52	V	43.54	53.98	10.44	AV
17160	53.45	0.64	V	54.09	68.20	14.11	PK
11440	55.41	-0.52	H	54.89	73.98	19.09	PK
11440	43.47	-0.52	H	42.95	53.98	11.03	AV
17160	53.23	0.64	H	53.87	68.20	14.33	PK

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

Frequency [MHz]	Measured Level [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11490	56.02	-0.38	V	55.64	73.98	18.34	PK
11490	42.64	-0.38	V	42.26	53.98	11.72	AV
17235	52.55	1.04	V	53.59	68.20	14.61	PK
11490	55.16	-0.38	H	54.78	73.98	19.20	PK
11490	42.15	-0.38	H	41.77	53.98	12.21	AV
17235	51.96	1.04	H	53.00	68.20	15.20	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11570	57.72	-0.29	V	57.43	73.98	16.56	PK
11570	44.41	-0.29	V	44.12	53.98	9.87	AV
17355	51.68	1.14	V	52.82	68.20	15.39	PK
11570	57.39	-0.29	H	57.10	73.98	16.89	PK
11570	44.18	-0.29	H	43.89	53.98	10.10	AV
17355	51.55	1.14	H	52.69	68.20	15.52	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11650	57.64	-1.16	V	56.48	73.98	17.50	PK
11650	44.26	-1.16	V	43.10	53.98	10.88	AV
17475	51.49	2.16	V	53.65	68.20	14.55	PK
11650	57.29	-1.16	H	56.13	73.98	17.85	PK
11650	44.19	-1.16	H	43.03	53.98	10.95	AV
17475	51.18	2.16	H	53.34	68.20	14.86	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 Mode]

Bluetooth_Ch.0_3-DH5_8DPSK + WLAN_5 GHz_802.11ax_HE20_Ch.157_26T_4RU_MCS0

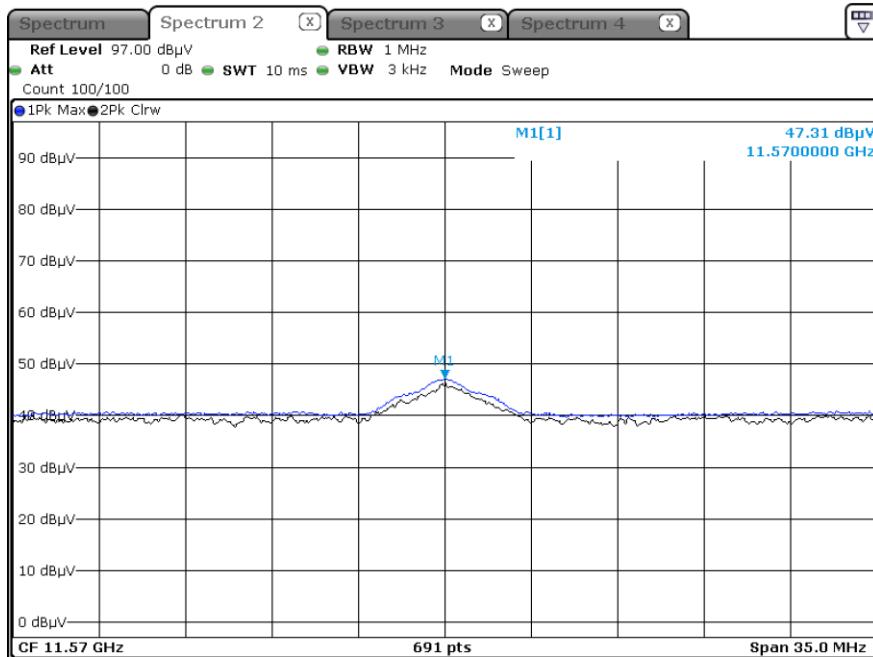
Frequency [MHz]	Measured Level [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11570	59.14	-0.29	V	58.85	73.98	15.14	PK
11570	46.08	-0.29	V	45.79	53.98	8.20	AV
17355	51.95	1.14	V	53.09	68.20	15.12	PK
11570	59.02	-0.29	H	58.73	73.98	15.26	PK
11570	45.54	-0.29	H	45.25	53.98	8.74	AV
17355	51.84	1.14	H	52.98	68.20	15.23	PK

Note :

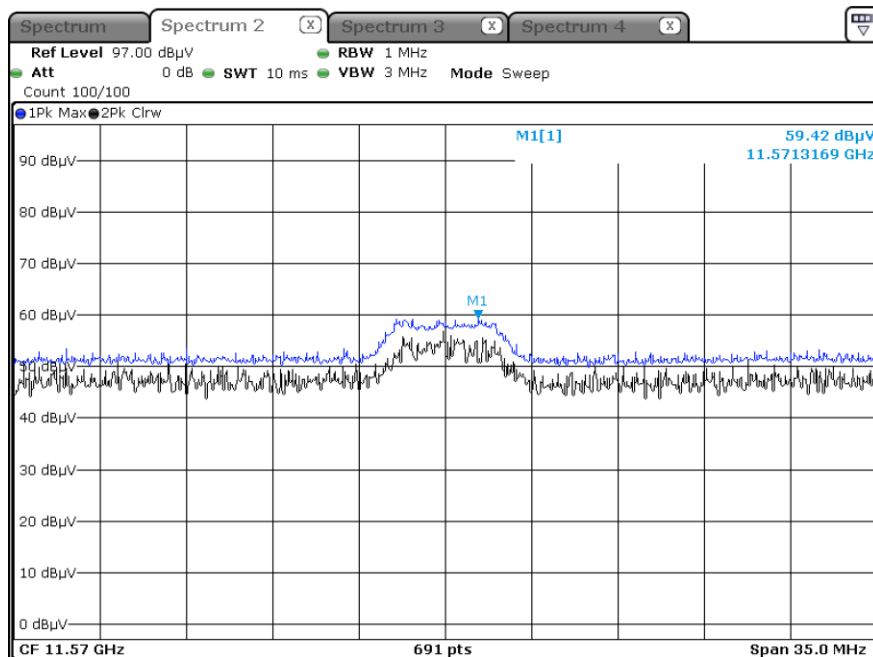
Bluetooth RSDB Data refer to [BT] Test Report.

Test Plots

Radiated Spurious Emissions plot – Average result (802.11ax HE20_26T, Ch.157 Spurious Emission, Y-H)



Radiated Spurious Emissions plot - Peak result (802.11ax HE20_26T, Ch.157 Spurious Emission, Y-H)



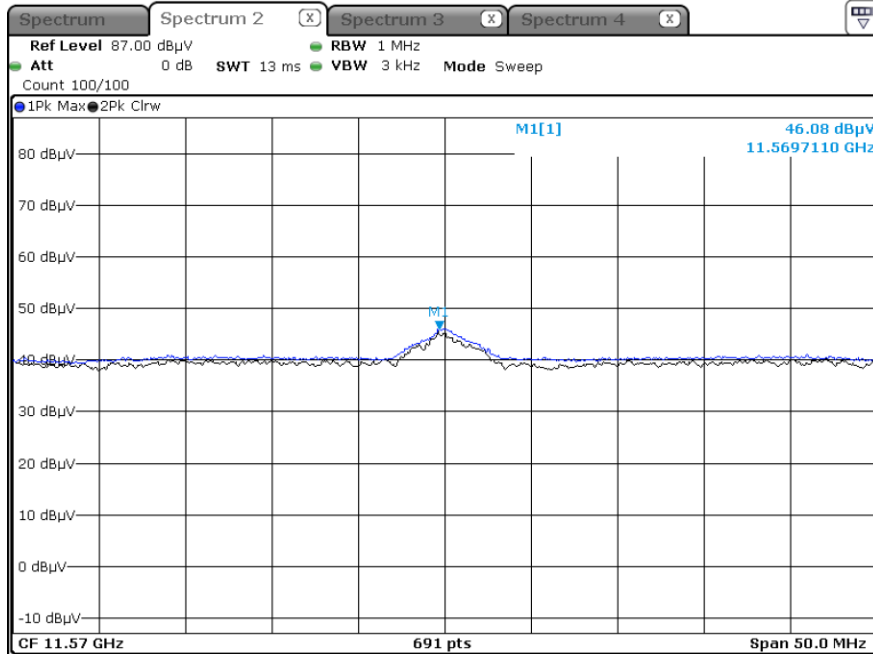
Note:

Only the worst case plots for Radiated Spurious Emissions.

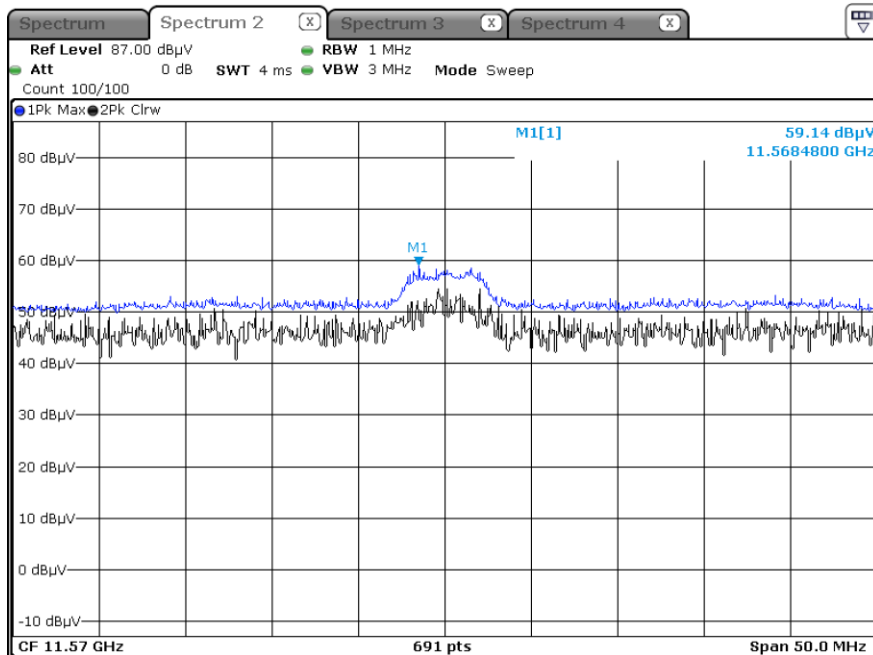
[RSDB Mode]

Bluetooth_Ch. 0_3-DH5_8DPSK + WLAN_5 GHz_802.11ax_HE20_Ch.157_26T_4RU_MCS0

Radiated Spurious Emissions plot - Average result (802.11ax HE20_26T, Ch.157 Spurious Emission, Y-V)



Radiated Spurious Emissions plot - Average result (802.11ax HE20_26T, Ch.157 Spurious Emission, Y-V)



10.9 RADIATED RESTRICTED BAND EDGE

10.9.1 Ant.1+Ant.2(MIMO_SMD)

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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	46.41	13.64	H	60.05	73.98	13.93	PK
5150	32.62	13.64	H	46.26	53.98	7.72	AV
5150	45.11	13.64	V	58.75	73.98	15.23	PK
5150	32.05	13.64	V	45.69	53.98	8.29	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	44.84	14.22	H	59.06	73.98	14.92	PK
5350	32.56	14.22	H	46.78	53.98	7.20	AV
5350	43.46	14.22	V	57.68	73.98	16.30	PK
5350	32.04	14.22	V	46.26	53.98	7.72	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	45.68	14.69	H	60.37	73.98	13.61	PK
5460	33.07	14.69	H	47.76	53.98	6.22	AV
5470	46.30	15.03	H	61.33	68.20	6.87	PK
5460	45.11	14.69	V	59.80	73.98	14.18	PK
5460	32.52	14.69	V	47.21	53.98	6.77	AV
5470	46.03	15.03	V	61.06	68.20	7.14	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	51.20	13.64	H	64.84	73.98	9.14	PK
5150	34.01	13.64	H	47.65	53.98	6.33	AV
5150	46.60	13.64	V	60.24	73.98	13.74	PK
5150	32.86	13.64	V	46.50	53.98	7.48	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	45.39	14.22	H	59.61	73.98	14.37	PK
5350	33.66	14.22	H	47.88	53.98	6.10	AV
5350	44.89	14.22	V	59.11	73.98	14.87	PK
5350	32.87	14.22	V	47.09	53.98	6.89	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	48.19	14.69	H	62.88	73.98	11.10	PK
5460	34.25	14.69	H	48.94	53.98	5.04	AV
5470	48.92	15.03	H	63.95	68.20	4.25	PK
5460	47.74	14.69	V	62.43	73.98	11.55	PK
5460	33.85	14.69	V	48.54	53.98	5.44	AV
5470	48.57	15.03	V	63.6	68.20	4.60	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	50.74	13.64	H	64.38	73.98	9.60	PK
5150	34.17	13.64	H	47.81	53.98	6.17	AV
5150	48.05	13.64	V	61.69	73.98	12.29	PK
5150	33.51	13.64	V	47.15	53.98	6.83	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	45.96	14.22	H	60.18	73.98	13.80	PK
5350	34.37	14.22	H	48.59	53.98	5.39	AV
5350	44.91	14.22	V	59.13	73.98	14.85	PK
5350	33.90	14.22	V	48.12	53.98	5.86	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	48.23	14.69	H	62.92	73.98	11.06	PK
5460	34.78	14.69	H	49.47	53.98	4.51	AV
5470	50.08	15.03	H	65.11	68.20	3.09	PK
5460	46.88	14.69	V	61.57	73.98	12.41	PK
5460	33.96	14.69	V	48.65	53.98	5.33	AV
5470	49.02	15.03	V	64.05	68.20	4.15	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	50.84	13.64	H	64.48	73.98	9.50	PK
5150	33.68	13.64	H	47.32	53.98	6.66	AV
5150	48.22	13.64	V	61.86	73.98	12.12	PK
5150	32.11	13.64	V	45.75	53.98	8.23	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	45.76	14.22	H	59.98	73.98	14.00	PK
5350	34.04	14.22	H	48.26	53.98	5.72	AV
5350	44.52	14.22	V	58.74	73.98	15.24	PK
5350	32.92	14.22	V	47.14	53.98	6.84	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	48.15	14.69	H	62.84	73.98	11.14	PK
5460	33.98	14.69	H	48.67	53.98	5.31	AV
5470	49.20	15.03	H	64.23	68.20	3.97	PK
5460	47.05	14.69	V	61.74	73.98	12.24	PK
5460	32.47	14.69	V	47.16	53.98	6.82	AV
5470	47.12	15.03	V	62.15	68.20	6.05	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	51.29	13.64	H	64.93	73.98	9.05	PK
5150	34.34	13.64	H	47.98	53.98	6.00	AV
5150	49.65	13.64	V	63.29	73.98	10.69	PK
5150	33.95	13.64	V	47.59	53.98	6.39	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	45.92	14.22	H	60.14	73.98	13.84	PK
5350	33.75	14.22	H	47.97	53.98	6.01	AV
5350	43.89	14.22	V	58.11	73.98	15.87	PK
5350	32.65	14.22	V	46.87	53.98	7.11	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	47.63	14.69	H	62.32	73.98	11.66	PK
5460	34.44	14.69	H	49.13	53.98	4.85	AV
5470	49.90	15.03	H	64.93	68.20	3.27	PK
5460	47.28	14.69	V	61.97	73.98	12.01	PK
5460	32.68	14.69	V	47.37	53.98	6.61	AV
5470	48.33	15.03	V	63.36	68.20	4.84	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	47.43	13.64	H	61.07	73.98	12.91	PK
5150	32.99	13.64	H	46.63	53.98	7.35	AV
5150	45.75	13.64	V	59.39	73.98	14.59	PK
5150	31.62	13.64	V	45.26	53.98	8.72	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	51.00	14.22	H	65.22	73.98	8.76	PK
5350	31.38	14.22	H	45.6	53.98	8.38	AV
5350	48.91	14.22	V	63.13	73.98	10.85	PK
5350	31.05	14.22	V	45.27	53.98	8.71	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	43.27	14.69	H	57.96	73.98	16.02	PK
5460	31.10	14.69	H	45.79	53.98	8.19	AV
5470	43.61	15.03	H	58.64	68.20	9.56	PK
5460	43.21	14.69	V	57.90	73.98	16.08	PK
5460	30.92	14.69	V	45.61	53.98	8.37	AV
5470	43.31	15.03	V	58.34	68.20	9.86	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	48.73	13.64	H	62.37	73.98	11.61	PK
5150	33.27	13.64	H	46.91	53.98	7.07	AV
5150	46.36	13.64	V	60.00	73.98	13.98	PK
5150	32.11	13.64	V	45.75	53.98	8.23	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	51.35	14.22	H	65.57	73.98	8.41	PK
5350	31.31	14.22	H	45.53	53.98	8.45	AV
5350	50.39	14.22	V	64.61	73.98	9.37	PK
5350	31.06	14.22	V	45.28	53.98	8.70	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	44.92	14.69	H	59.61	73.98	14.37	PK
5460	31.41	14.69	H	46.10	53.98	7.88	AV
5470	46.29	15.03	H	61.32	68.20	6.88	PK
5460	43.85	14.69	V	58.54	73.98	15.44	PK
5460	31.05	14.69	V	45.74	53.98	8.24	AV
5470	45.29	15.03	V	60.32	68.20	7.88	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	49.18	13.64	H	62.82	73.98	11.16	PK
5150	33.14	13.64	H	46.78	53.98	7.20	AV
5150	48.65	13.64	V	62.29	73.98	11.69	PK
5150	33.01	13.64	V	46.65	53.98	7.33	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	52.77	14.22	H	66.99	73.98	6.99	PK
5350	31.57	14.22	H	45.79	53.98	8.19	AV
5350	51.59	14.22	V	65.81	73.98	8.17	PK
5350	30.98	14.22	V	45.2	53.98	8.78	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	45.63	14.69	H	60.32	73.98	13.66	PK
5460	31.77	14.69	H	46.46	53.98	7.52	AV
5470	47.33	15.03	H	62.36	68.20	5.84	PK
5460	45.02	14.69	V	59.71	73.98	14.27	PK
5460	30.49	14.69	V	45.18	53.98	8.80	AV
5470	46.04	15.03	V	61.07	68.20	7.13	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	49.50	13.64	H	63.14	73.98	10.84	PK
5150	34.31	13.64	H	47.95	53.98	6.03	AV
5150	48.80	13.64	V	62.44	73.98	11.54	PK
5150	33.81	13.64	V	47.45	53.98	6.53	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	52.79	14.22	H	67.01	73.98	6.97	PK
5350	32.53	14.22	H	46.75	53.98	7.23	AV
5350	51.22	14.22	V	65.44	73.98	8.54	PK
5350	31.24	14.22	V	45.46	53.98	8.52	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	47.13	14.69	H	61.82	73.98	12.16	PK
5460	32.32	14.69	H	47.01	53.98	6.97	AV
5470	48.53	15.03	H	63.56	68.20	4.64	PK
5460	46.54	14.69	V	61.23	73.98	12.75	PK
5460	31.87	14.69	V	46.56	53.98	7.42	AV
5470	47.89	15.03	V	62.92	68.20	5.28	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	51.85	13.64	H	65.49	73.98	8.49	PK
5150	37.63	13.64	H	51.27	53.98	2.71	AV
5150	49.61	13.64	V	63.25	73.98	10.73	PK
5150	36.18	13.64	V	49.82	53.98	4.16	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	55.86	14.22	H	70.08	73.98	3.90	PK
5350	36.68	14.22	H	50.9	53.98	3.08	AV
5350	54.67	14.22	V	68.89	73.98	5.09	PK
5350	35.26	14.22	V	49.48	53.98	4.50	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	47.54	14.69	H	62.23	73.98	11.75	PK
5460	32.41	14.69	H	47.10	53.98	6.88	AV
5470	50.13	15.03	H	65.16	68.20	3.04	PK
5460	46.39	14.69	V	61.08	73.98	12.90	PK
5460	31.84	14.69	V	46.53	53.98	7.45	AV
5470	49.88	15.03	V	64.91	68.20	3.29	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	49.94	13.64	H	63.58	73.98	10.40	PK
5150	37.16	13.64	H	50.8	53.98	3.18	AV
5150	47.78	13.64	V	61.42	73.98	12.56	PK
5150	35.86	13.64	V	49.5	53.98	4.48	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	51.79	14.22	H	66.01	73.98	7.97	PK
5350	37.02	14.22	H	51.24	53.98	2.74	AV
5350	50.81	14.22	V	65.03	73.98	8.95	PK
5350	35.32	14.22	V	49.54	53.98	4.44	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 [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.34	14.69	H	59.03	73.98	14.95	PK
5460	32.94	14.69	H	47.63	53.98	6.35	AV
5470	45.27	15.03	H	60.3	68.20	7.90	PK
5460	44.06	14.69	V	58.75	73.98	15.23	PK
5460	32.51	14.69	V	47.20	53.98	6.78	AV
5470	45.03	15.03	V	60.06	68.20	8.14	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	45.84	13.64	H	59.48	73.98	14.50	PK
5150	32.86	13.64	H	46.5	53.98	7.48	AV
5150	43.58	13.64	V	57.22	73.98	16.76	PK
5150	31.25	13.64	V	44.89	53.98	9.09	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	42.46	14.22	H	56.68	73.98	17.30	PK
5350	30.77	14.22	H	44.99	53.98	8.99	AV
5350	41.92	14.22	V	56.14	73.98	17.84	PK
5350	30.46	14.22	V	44.68	53.98	9.30	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	43.83	14.69	H	58.52	73.98	15.46	PK
5460	31.36	14.69	H	46.05	53.98	7.93	AV
5470	43.92	15.03	H	58.95	68.20	9.25	PK
5460	42.91	14.69	V	57.60	73.98	16.38	PK
5460	30.84	14.69	V	45.53	53.98	8.45	AV
5470	43.57	15.03	V	58.6	68.20	9.60	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	43.49	13.64	H	57.13	73.98	16.85	PK
5150	31.84	13.64	H	45.48	53.98	8.50	AV
5150	42.45	13.64	V	56.09	73.98	17.89	PK
5150	31.11	13.64	V	44.75	53.98	9.23	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	42.31	14.22	H	56.53	73.98	17.45	PK
5350	30.51	14.22	H	44.73	53.98	9.25	AV
5350	41.63	14.22	V	55.85	73.98	18.13	PK
5350	30.14	14.22	V	44.36	53.98	9.62	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	43.75	14.69	H	58.44	73.98	15.54	PK
5460	31.89	14.69	H	46.58	53.98	7.40	AV
5470	44.58	15.03	H	59.61	68.20	8.59	PK
5460	42.99	14.69	V	57.68	73.98	16.30	PK
5460	31.25	14.69	V	45.94	53.98	8.04	AV
5470	43.81	15.03	V	58.84	68.20	9.36	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	44.00	13.64	H	57.64	73.98	16.34	PK
5150	31.78	13.64	H	45.42	53.98	8.56	AV
5150	42.14	13.64	V	55.78	73.98	18.20	PK
5150	30.44	13.64	V	44.08	53.98	9.90	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	41.73	14.22	H	55.95	73.98	18.03	PK
5350	30.22	14.22	H	44.44	53.98	9.54	AV
5350	41.19	14.22	V	55.41	73.98	18.57	PK
5350	30.01	14.22	V	44.23	53.98	9.75	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	43.67	14.69	H	58.36	73.98	15.62	PK
5460	30.87	14.69	H	45.56	53.98	8.42	AV
5470	44.94	15.03	H	59.97	68.20	8.23	PK
5460	42.81	14.69	V	57.50	73.98	16.48	PK
5460	30.58	14.69	V	45.27	53.98	8.71	AV
5470	43.62	15.03	V	58.65	68.20	9.55	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	44.42	13.64	H	58.06	73.98	15.92	PK
5150	32.37	13.64	H	46.01	53.98	7.97	AV
5150	43.56	13.64	V	57.2	73.98	16.78	PK
5150	31.86	13.64	V	45.5	53.98	8.48	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	42.62	14.22	H	56.84	73.98	17.14	PK
5350	30.83	14.22	H	45.05	53.98	8.93	AV
5350	41.47	14.22	V	55.69	73.98	18.29	PK
5350	30.66	14.22	V	44.88	53.98	9.10	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	45.89	14.69	H	60.58	73.98	13.40	PK
5460	31.57	14.69	H	46.26	53.98	7.72	AV
5470	46.16	15.03	H	61.19	68.20	7.01	PK
5460	44.58	14.69	V	59.27	73.98	14.71	PK
5460	30.69	14.69	V	45.38	53.98	8.60	AV
5470	45.88	15.03	V	60.91	68.20	7.29	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	46.28	13.64	H	59.92	73.98	14.06	PK
5150	32.79	13.64	H	46.43	53.98	7.55	AV
5150	45.63	13.64	V	59.27	73.98	14.71	PK
5150	31.68	13.64	V	45.32	53.98	8.66	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	43.02	14.22	H	57.24	73.98	16.74	PK
5350	31.16	14.22	H	45.38	53.98	8.60	AV
5350	41.85	14.22	V	56.07	73.98	17.91	PK
5350	30.74	14.22	V	44.96	53.98	9.02	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	44.41	14.69	H	59.10	73.98	14.88	PK
5460	31.77	14.69	H	46.46	53.98	7.52	AV
5470	45.47	15.03	H	60.5	68.20	7.70	PK
5460	43.59	14.69	V	58.28	73.98	15.70	PK
5460	31.31	14.69	V	46.00	53.98	7.98	AV
5470	44.36	15.03	V	59.39	68.20	8.81	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	45.93	13.64	H	59.57	73.98	14.41	PK
5150	34.30	13.64	H	47.94	53.98	6.04	AV
5150	44.44	13.64	V	58.08	73.98	15.90	PK
5150	32.83	13.64	V	46.47	53.98	7.51	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	43.04	14.22	H	57.26	73.98	16.72	PK
5350	32.45	14.22	H	46.67	53.98	7.31	AV
5350	42.67	14.22	V	56.89	73.98	17.09	PK
5350	31.88	14.22	V	46.1	53.98	7.88	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	45.22	14.69	H	59.91	73.98	14.07	PK
5460	32.29	14.69	H	46.98	53.98	7.00	AV
5470	46.82	15.03	H	61.85	68.20	6.35	PK
5460	44.98	14.69	V	59.67	73.98	14.31	PK
5460	32.04	14.69	V	46.73	53.98	7.25	AV
5470	46.12	15.03	V	61.15	68.20	7.05	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	46.08	13.64	H	59.72	73.98	14.26	PK
5150	34.45	13.64	H	48.09	53.98	5.89	AV
5150	44.42	13.64	V	58.06	73.98	15.92	PK
5150	32.44	13.64	V	46.08	53.98	7.90	AV

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

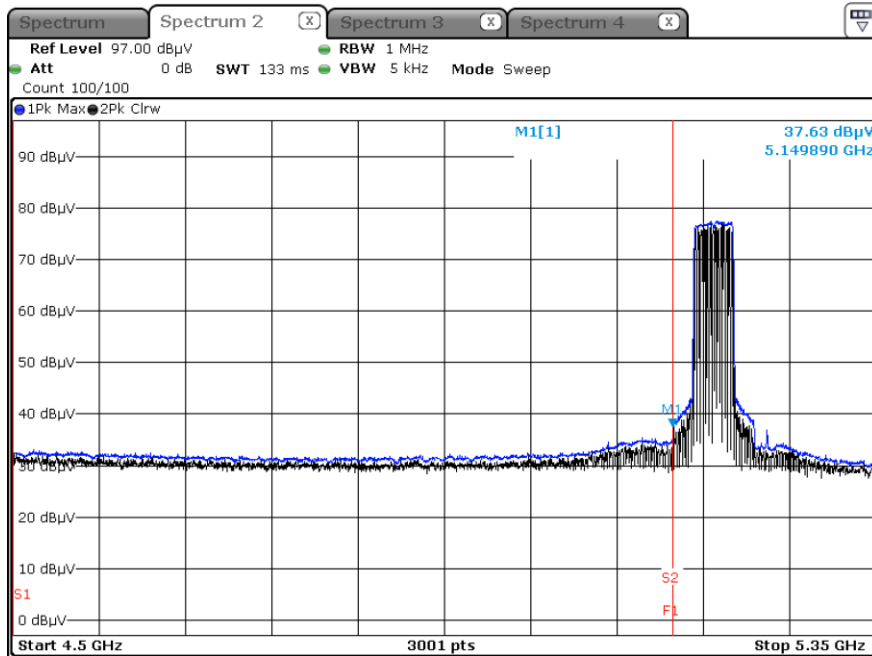
Frequency [MHz]	Measured Level [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	42.35	14.22	H	56.57	73.98	17.41	PK
5350	32.16	14.22	H	46.38	53.98	7.60	AV
5350	40.89	14.22	V	55.11	73.98	18.87	PK
5350	31.05	14.22	V	45.27	53.98	8.71	AV

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

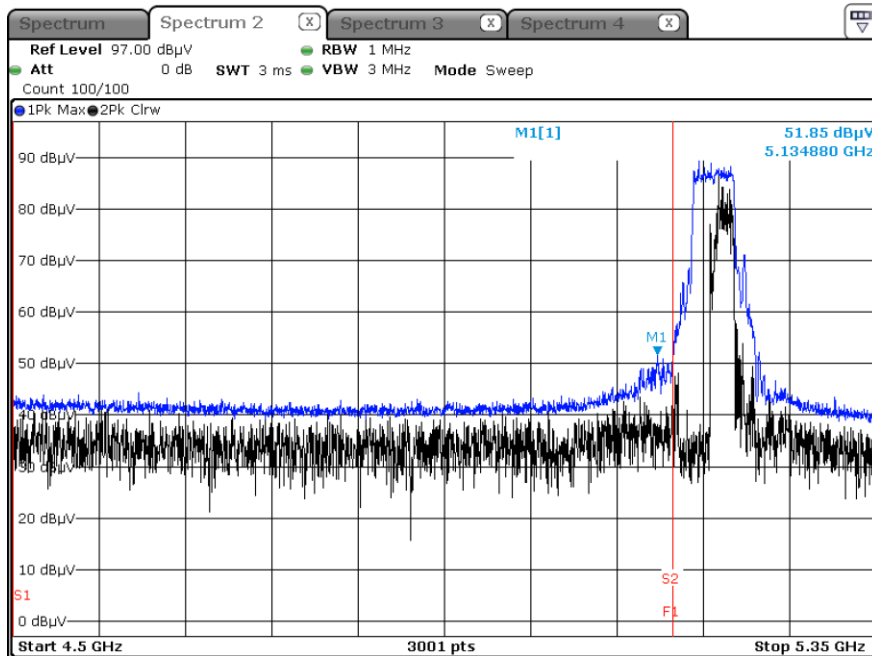
Frequency [MHz]	Measured Level [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.73	14.69	H	59.42	73.98	14.56	PK
5460	33.04	14.69	H	47.73	53.98	6.25	AV
5470	45.49	15.03	H	60.52	68.20	7.68	PK
5460	44.19	14.69	V	58.88	73.98	15.10	PK
5460	31.84	14.69	V	46.53	53.98	7.45	AV
5470	44.98	15.03	V	60.01	68.20	8.19	PK

▣ Test Plots(UNII 1, 2A, 2C),

Radiated Restricted Band Edges plot - Average result (802.11ax(HE40), Ch.38, Y-H) –484 Tone RU 65



Radiated Restricted Band Edges plot - Peak result (802.11ax(HE40), Ch.38, Y-H) –484 Tone RU 65

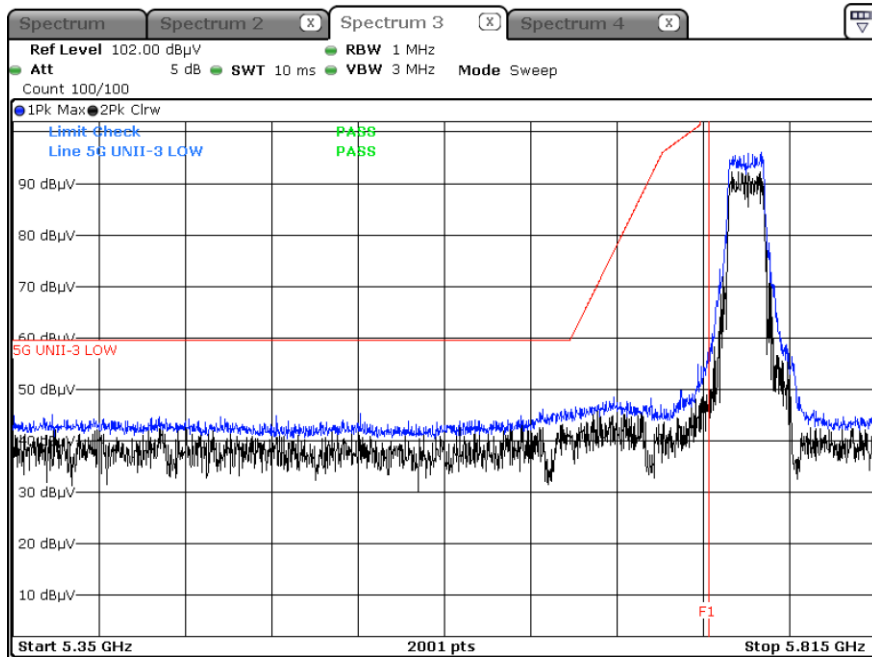


Note:

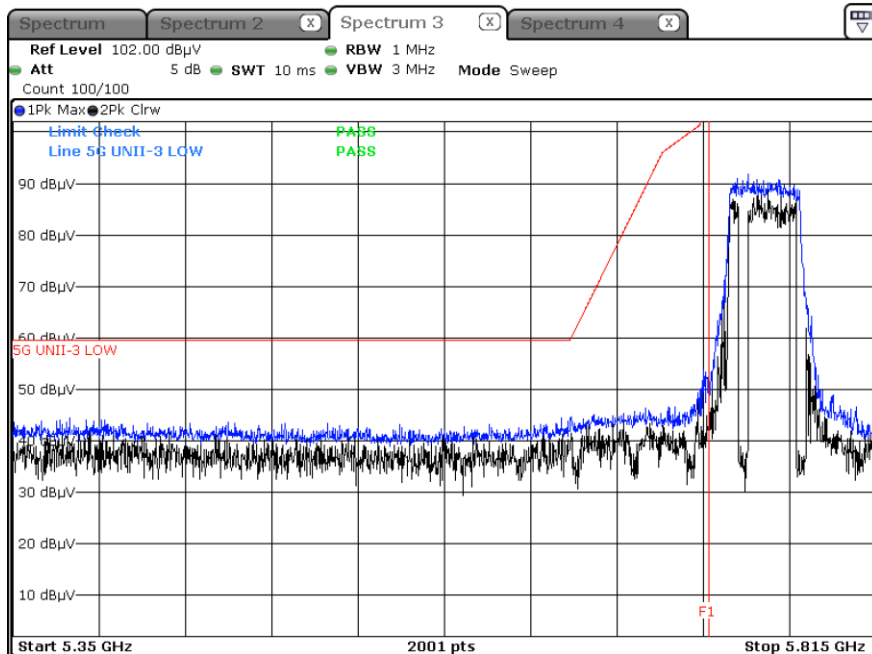
Only the worst case plots for Radiated Restricted Band Edge.

▣ Test Plots(UNII 3)_Low Edge

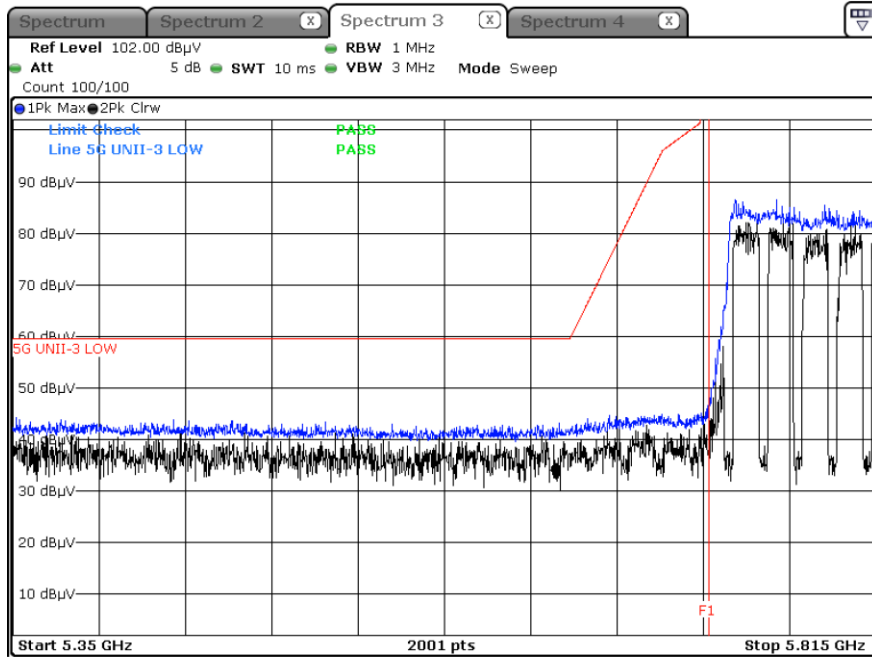
Peak result (802.11ax(HE20), Ch.149, 242T RU61, X-H)



Peak result (802.11ax(HE40), Ch.151, 484T RU65, X-H)

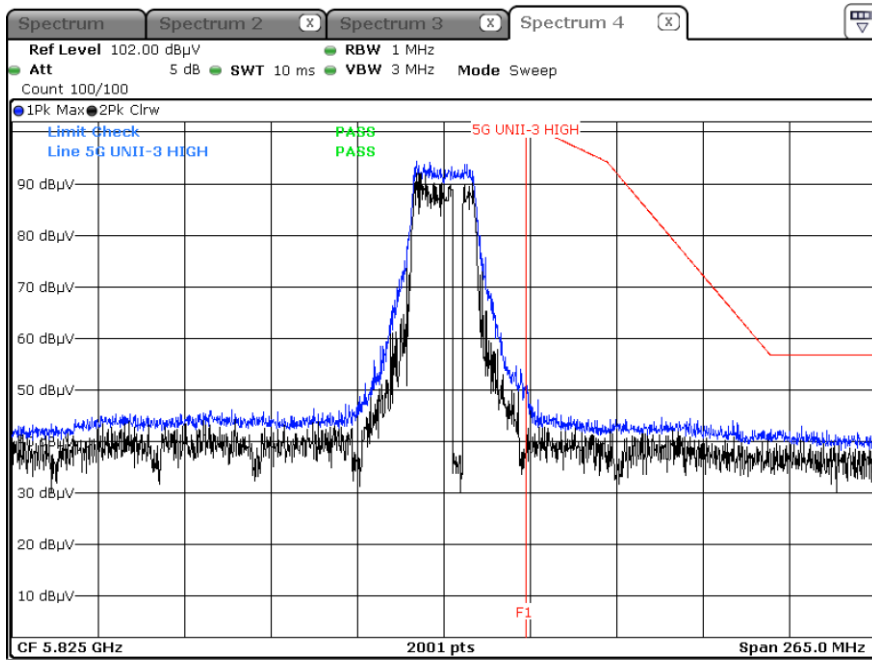


Peak result (802.11ax(HE80), Ch.155, 996T RU67, X-H)

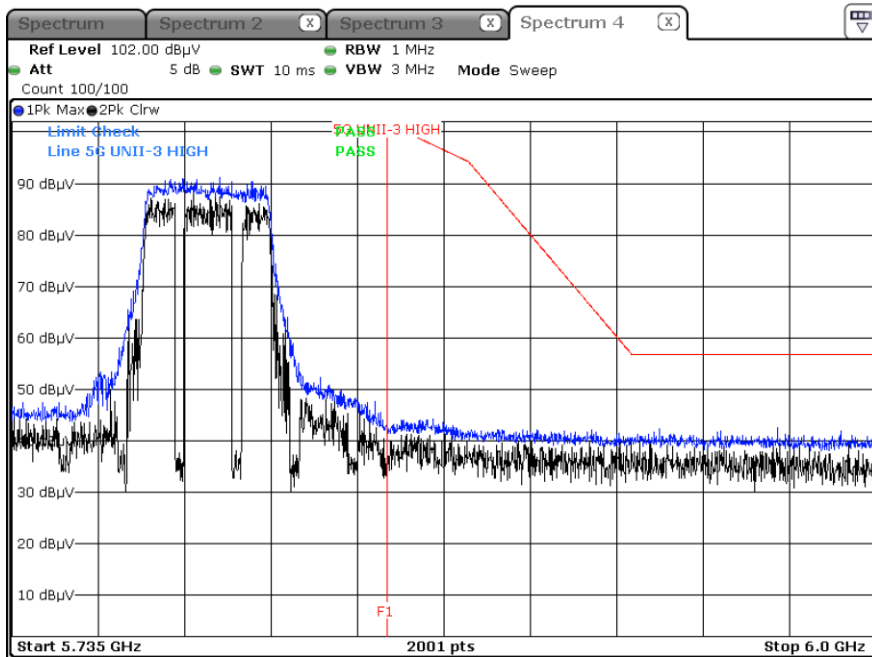


▣ Test Plots(UNII 3)_High Edge

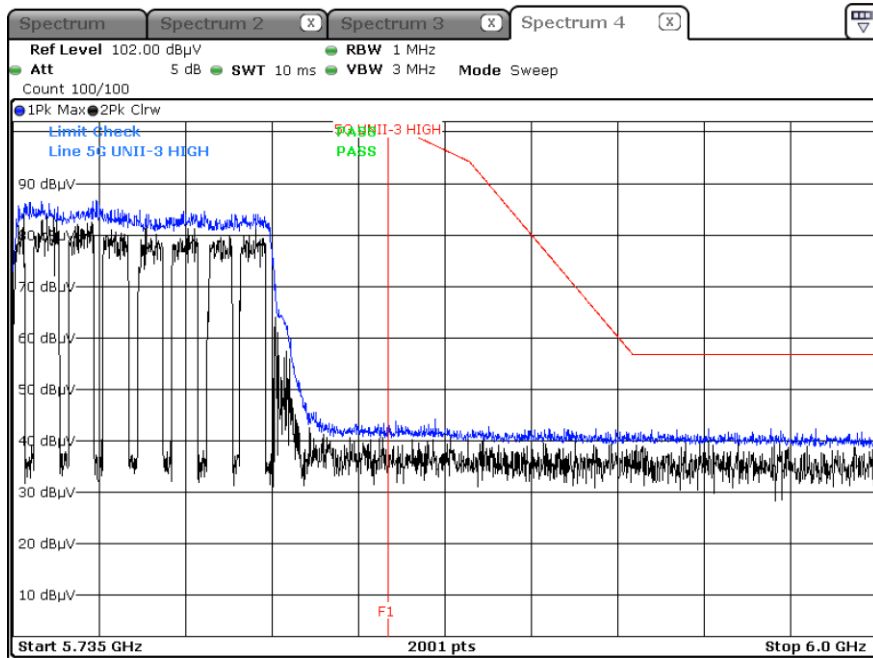
Peak result (802.11ax(HE20), Ch.149, 242T RU61, Y-H)



Peak result (802.11ax(HE40), Ch.151, 484T RU65, Y-H)



Peak result (802.11ax(HE80), Ch.155, 996T RU67, Y-H)

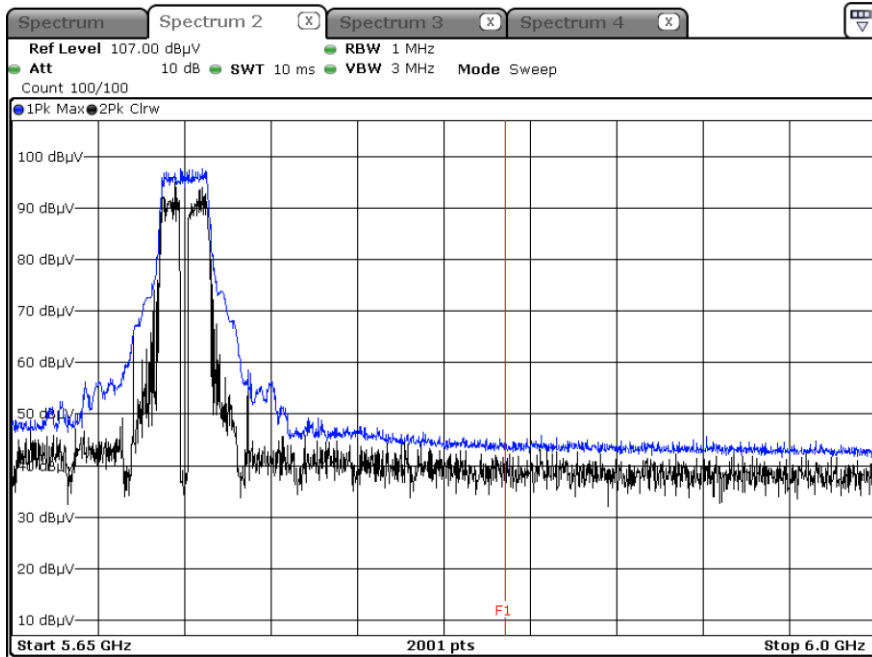


Note :

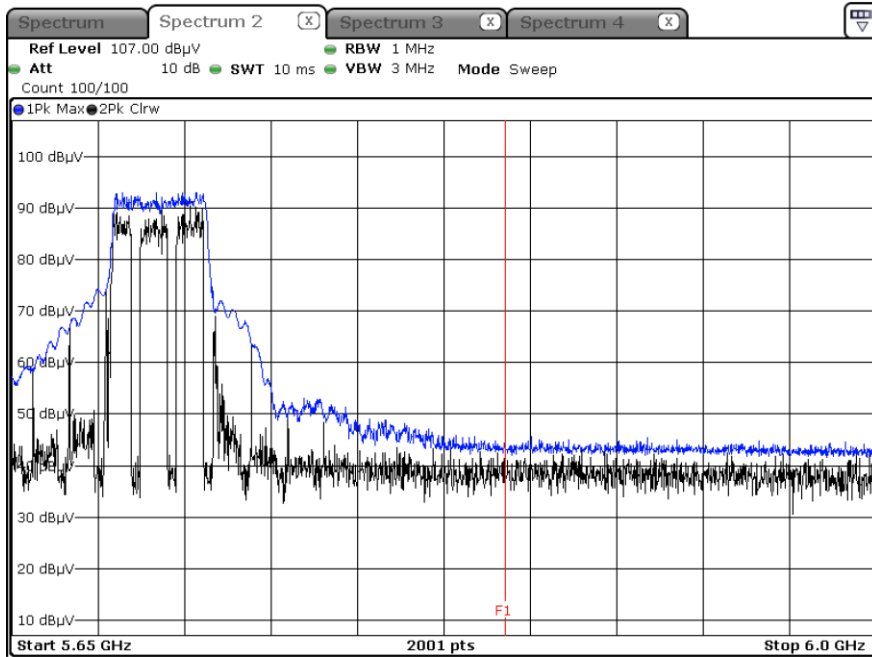
1. Only the worst case plots for U-NII-3 Out of Band e.i.r.p Emission.
2. U-NII-3 Low & High Band Edge RedLine is Final Test Limit about factor value compensation.

▣ Test Plots(Staraddle Channel)

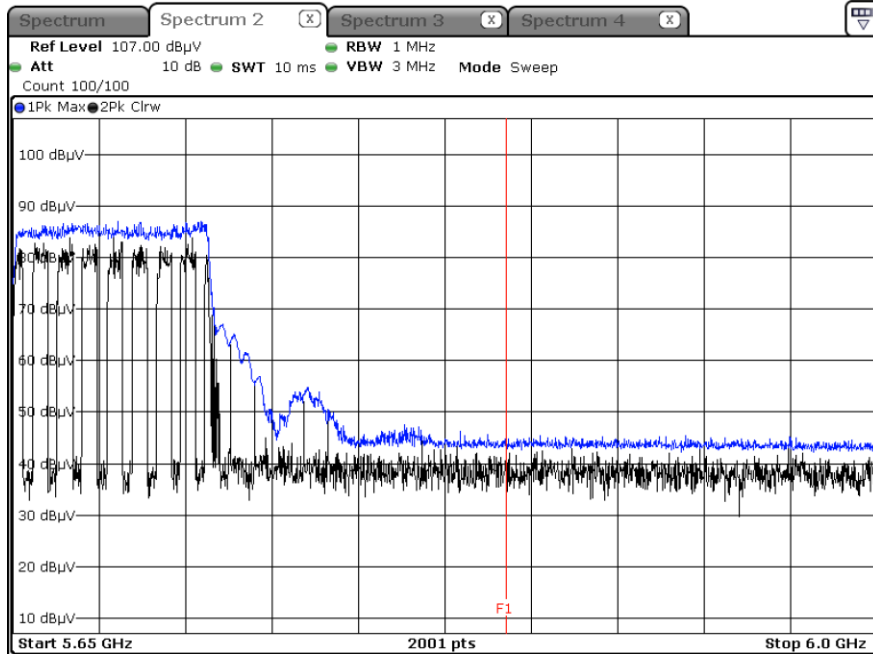
Peak result (802.11ax(HE20), Ch.144, 242T RU61, X-H)



Peak result (802.11ax(HE40), Ch.142, 484T RU65, X-H)



Peak result (802.11ax(HE80), Ch.138, 996T RU67, X-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)

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	MY52350879	01/02/2024	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	11/02/2023	Annual
Power Splitter	11667B	Hewlett Packard	05001	05/18/2023	Annual
DC Power Supply	E3632A	H.P	KR75303243	04/25/2023	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	MY52350879	01/02/2024	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	01/05/2024	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	12/01/2023	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-2301-FC027-P