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TEST REPORT

FCC 15E 6 GHz Low Power Indoor Client (6XD) Test for LGSBWAX12
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2101-FC015-R2

DATE OF ISSUE
February 22, 2021

Tested by
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Technical Manager
Jong Seok Lee

Accredited by KOLAS, Republic of KOREA

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Additional Model
-

Applicant	**LG Electronics Inc.** 222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea
Eut Type Model Name	RF Module LGSBWAX12
FCC ID	BEJLGSBWAX12
Modulation type	OFDMA
FCC Classification	15E 6 GHz Low Power Indoor Client (6XD)
FCC Rule Part(s)	Part 15.407

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test results were applied only to the test methods required by the standard.

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	January 07, 2021	Initial Release
1	January 27, 2021	Page 21, Added RF Cable Loss data Page 67 & 80 Typo. Page 114 & 115, Revised & Incumbent signal Power addition
2	February 22, 2021	Page 67 ~ 72, Revised Power spectral density Page 81 & 83 & 97 & 100, Added Unit Page 104, Added note

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.

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.

CONTENTS

1. GENERAL INFORMATION

EUT DESCRIPTION

Model	LGSBWAX12	
Additional Model	-	
EUT Type	RF Module	
Power Supply	DC 3.30 V	
Modulation Type	OFDMA	
Frequency Range (MHz)	U-NII-5	5955 – 6415
	U-NII-6	6435 - 6515
	U-NII-7	6535 - 6875
	U-NII-8	6895 - 7095
Antenna type	Metal press Ant	
Antenna Peak Gain	Ant.1: 0.65 dBi(UNII 5), 0.65 dBi(UNII 6)/ 0.44 dBi(UNII 7)/ 0.91 dBi(UNII 8) Ant.2: 1.45 dBi(UNII 5), 1.45 dBi(UNII 6)/ 1.43 dBi(UNII 7)/ 1.43 dBi(UNII 8)	
Straddle channel	Supported	
Device Type	Indoor Client	
Date(s) of Tests	December 01, 2020 ~ December 30, 2020	
EUT serial numbers	ETWCHMBC01-01, ETWCHMBC01-02, ETWCHMBC01-03, ETWCHMBC01-04	
EUT Cable Type.	Basic Cable Type	

ANTENNA CONFIGURATIONS

1. The device employs MIMO technology. Below are the possible configurations

Configurations	SISO		SDM	CDD
	Ant1	Ant2	Ant1 + Ant2	Ant1 + Ant2
802.11ax	O	O	O	O

Note:

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

2. Directional Gain Calculation

According to KDB 662911 D01 Multiple Transmitter Output v02r01

Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20}+\ldots+10^{GN/20})^2/N]$ dBi

Band	Ant Gain (dBi)		Directional Gain = $10*\log[(10^{G1/20} + 10^{G2/20}+\ldots+10^{GN/20})^2/N]$ dBi
UNII 5	Ant1	0.65	4.07
	Ant2	1.45	
UNII 6	Ant1	0.65	4.07
	Ant2	1.45	
UNII 7	Ant1	0.44	3.96
	Ant2	1.43	
UNII 8	Ant1	0.91	4.18
	Ant2	1.43	

2. MAXIMUM OUTPUT POWER

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

Band	Mode	SISO				MIMO	
		(Ant1) Power		(Ant2) Power		(Ant 1 + Ant 2) Power	
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
UNII5	802.11ax (HE20)	3.33	0.002	4.12	0.003	9.75	0.009
	802.11ax (HE40)	5.69	0.004	6.38	0.004	12.47	0.018
	802.11ax (HE80)	7.65	0.006	7.65	0.006	15.47	0.035
UNII6	802.11ax (HE20)	2.98	0.002	3.91	0.002	9.47	0.009
	802.11ax (HE40)	5.58	0.004	6.34	0.004	12.37	0.017
	802.11ax (HE80)	7.73	0.006	7.73	0.006	15.10	0.032
UNII7	802.11ax (HE20)	3.44	0.002	4.88	0.003	10.07	0.010
	802.11ax (HE40)	5.19	0.003	6.24	0.004	12.43	0.017
	802.11ax (HE80)	7.92	0.006	7.92	0.006	15.35	0.034
UNII8	802.11ax (HE20)	3.69	0.002	4.30	0.003	10.00	0.010
	802.11ax (HE40)	5.48	0.004	5.65	0.004	12.18	0.017
	802.11ax (HE80)	7.10	0.005	7.10	0.005	14.65	0.029

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.
KDB 648474 D03 c01r04, KDB 662911 D01 c02r01, KDB 987594 D02

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 1GHz. Above 1GHz 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 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."

5.2 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).

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR § 15.203:

"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

7. MEASUREMENT UNCERTAINTY

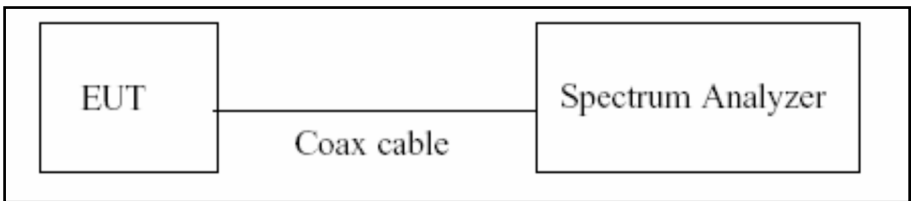
The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.
All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.
The measurement data shown herein meets or exceeds the U_{CISPR} measurement 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)	1.82
Radiated Disturbance (9 kHz ~ 30 MHz)	3.40
Radiated Disturbance (30 MHz ~ 1 GHz)	4.80
Radiated Disturbance (1 GHz ~ 18 GHz)	5.70
Radiated Disturbance (18 GHz ~ 40 GHz)	5.05

8. DESCRIPTION OF TESTS

8.1. Duty Cycle

Test Configuration



Test Procedure

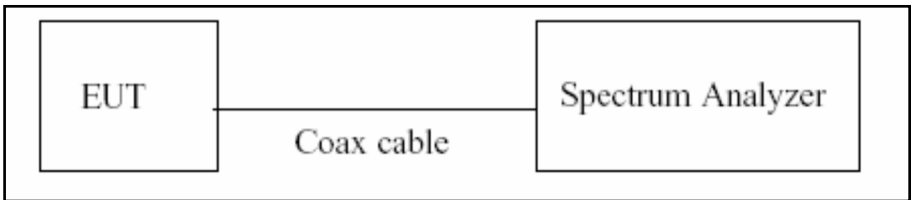
The transmitter output is connected to the Spectrum Analyzer.

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

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

8.2. 26dB Bandwidth

Test Configuration



Test Procedure(26dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer.

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

RBW = approximately 1 % of the emission bandwidth

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

Note:

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

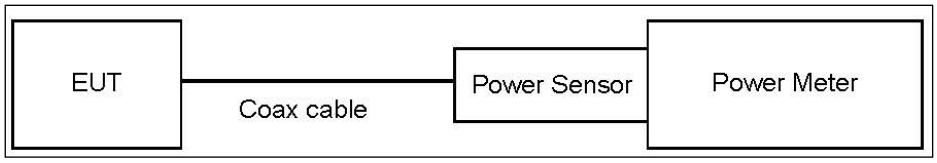
Limit

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

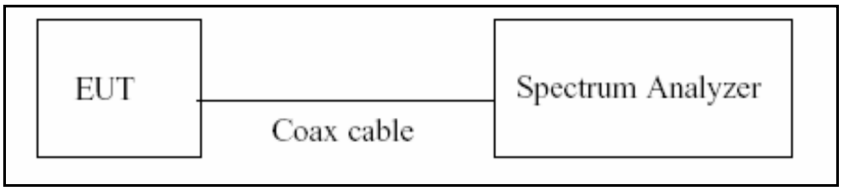
8.3. Output Power Measurement

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 & KDB 662911 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 & KDB 662911 v02r01

1. Measure the duty cycle.
2. Set span to encompass the 26 dB EBW of the signal.
3. RBW = 1 MHz.
4. VBW ≥ 3 MHz.
5. Number of points in sweep ≥ 2 x span/RBW.
6. Sweep time = auto.
7. Detector = RMS.
8. Do not use sweep triggering. Allow the sweep to "free run".

9. Trace average at least 100 traces in power averaging(RMS) mode
10. Integrated bandwidth = OBW
11. Add 10log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Sample Calculation

Total Power(dBm) = Reading Value(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

1. Spectrum reading 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(20 dB) + Cable loss
3. Actual value of loss for the attenuator and cable combination is below table.

Band	Loss(dB)
UNII 5	21.00
UNII 6	21.00
UNII 7	21.00
UNII 8	21.00

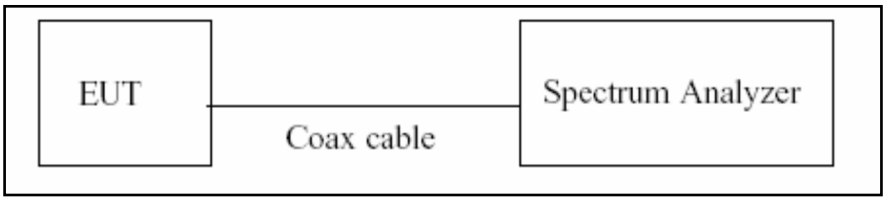
(Actual value of loss for the attenuator and cable combination)

Limit

Operating Mode	Band	Mode	E.I.R.P Limit (dBm)
SISO	UNII 5	802.11ax HE20 /HE40/HE80	24.00
	UNII 6		
	UNII 7		
	UNII 8		
MIMO	UNII 5	802.11ax HE20 /HE40/HE80	24.00
	UNII 6		
	UNII 7		
	UNII 8		

8.4. Power Spectral Density

Test Configuration



Test Procedure

We tested according to Procedure F in KDB 789033 D02 v02r01 & KDB 662911 v02r01.

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

Limit

Operating Mode	Band	Mode	E.I.R.P Limit (dBm/MHz)
SISO	UNII 5	802.11ax HE20 /HE40/HE80	-1.00
	UNII 6		
	UNII 7		
	UNII 8		
MIMO	UNII 5	802.11ax HE20 /HE40/HE80	-1.00
	UNII 6		
	UNII 7		
	UNII 8		

Sample Calculation

Total PSD(dBm) = Reading Value(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

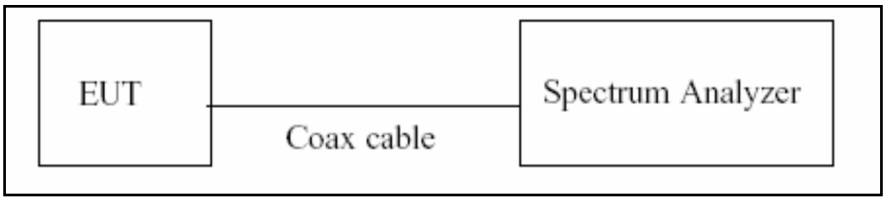
1. Spectrum reading values are not plot data.
   The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset = Attenuator loss(20 dB) + Cable loss
3. Actual value of loss for the attenuator and cable combination is below table.

Band	Loss(dB)
UNII 5	21.00
UNII 6	21.00
UNII 7	21.00
UNII 8	21.00

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

8.5. In-Band Emission (Emissions Mask)

Test Configuration

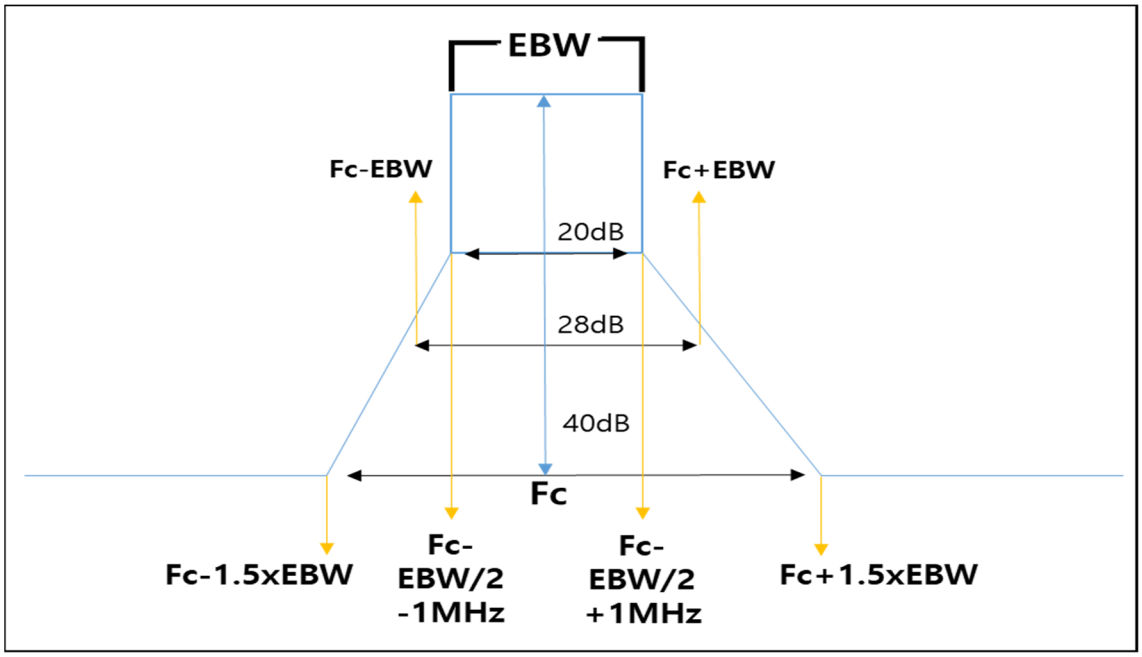


Test Procedure

We tested according to Procedure J in KDB 987594 D02.

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

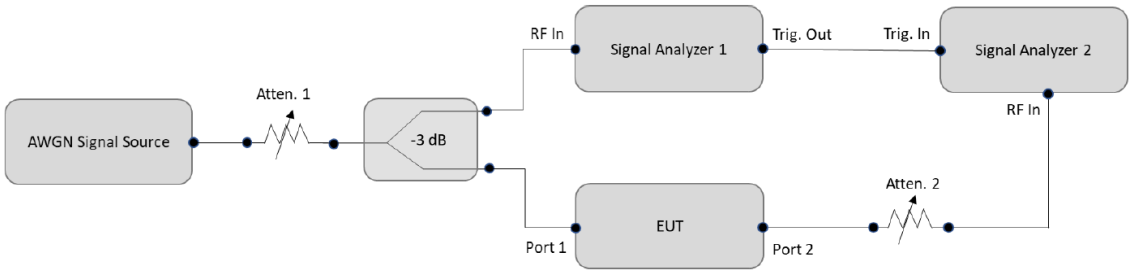
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
   a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel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



Generic Emission Mask

8.6. Contention Based Protocol

Test Configuration



Test Procedure

We tested according to Procedure I in KDB 987594 D02.

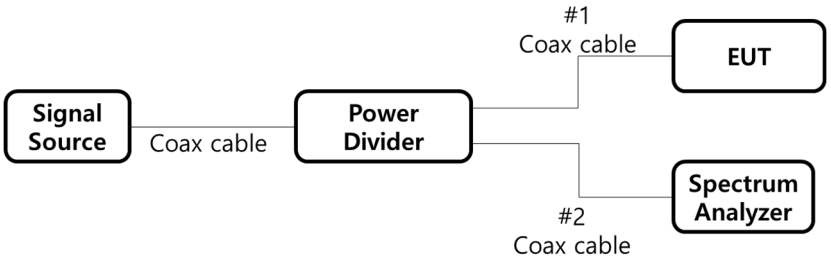
1. **Configure the EUT to transmit with a constant duty cycle.**
2. **Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.**
3. **Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal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

10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

Sample Calculation

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

Note



1. Spectrum reading values are plot data.
   The power result of the plot is equal to the power input to the EUT.
2. Spectrum reading values are plot data.
   Spectrum offset = #1 Cable loss – #2 Cable loss
3. Actual value of loss for the attenuator and cable combination is below table.

Band	#1 Cable Loss(dB)	#2 Cable Loss(dB)	Spectrum offset
UNII 5	8.51	8.35	0.16
UNII 6	8.56	8.35	0.21
UNII 7	8.64	8.36	0.28
UNII 8	8.81	8.46	0.35

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

8.7. AC Power line Conducted Emissions

Limit

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

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

8.8. Radiated Test

Limit

1. All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11ax(20/40/80MHz), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
For transmitters operating in the 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP of −27 dBm/MHz.

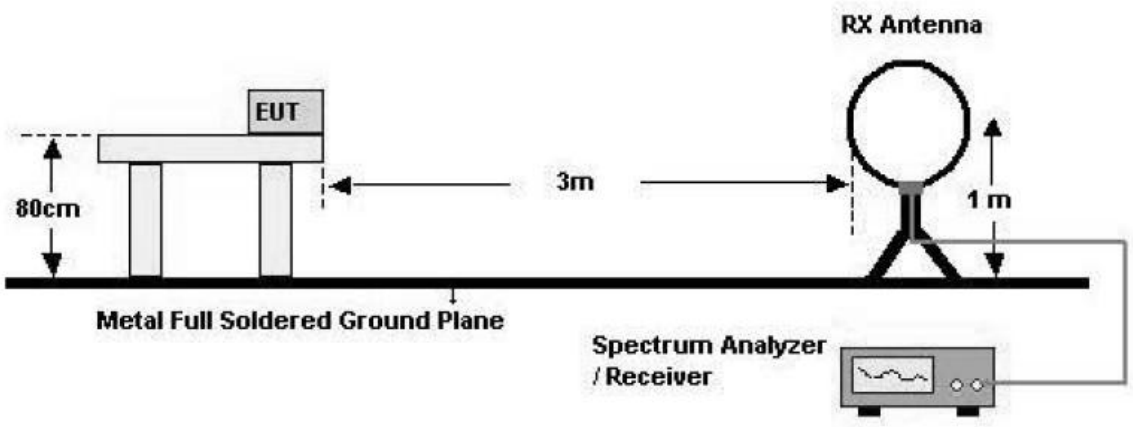
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
Above	500	3

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

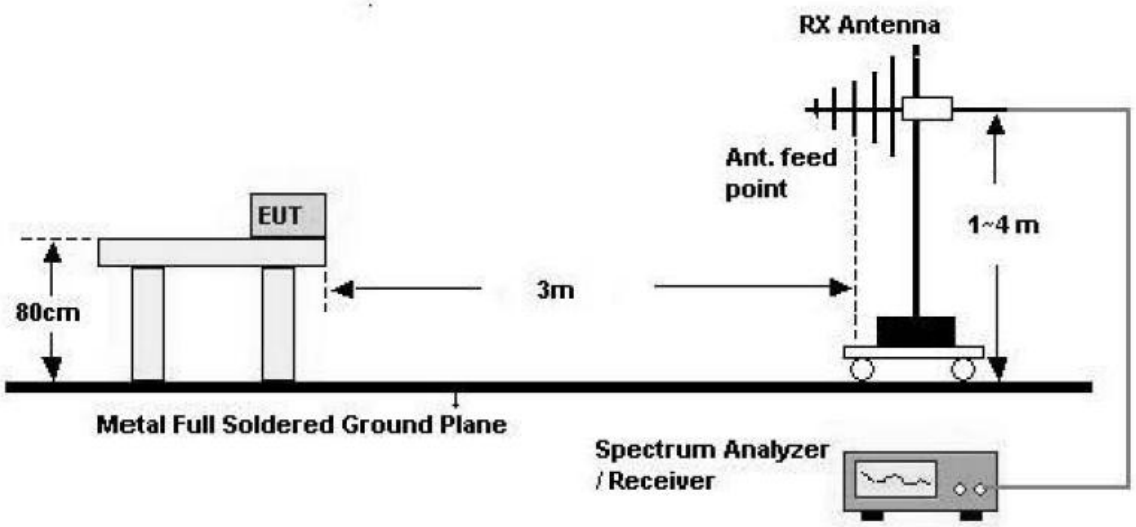
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30

Test Configuration

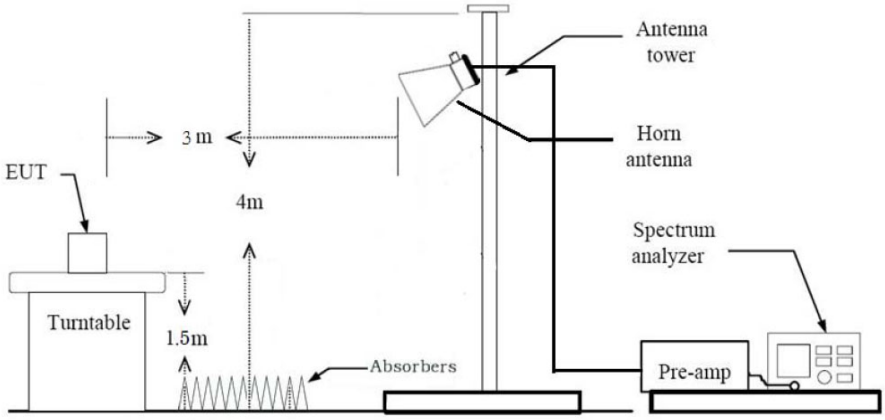
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



Test Procedure of Radiated spurious emissions(Below 30 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 3m from the EUT
3. The EUT is placed on a turntable, which is 0.8m above ground plane.
4. .We have done x, y, z planes in EUT and horizontal and vertical polarization and Parallel to the ground plane in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Distance Correction Factor(0.009 MHz – 0.490 MHz) = 40log(3 m/300 m) = - 80 dB
   Measurement Distance : 3 m
7. Distance Correction Factor(0.490 MHz – 30 MHz) = 40log(3 m/30 m) = - 40 dB
   Measurement Distance : 3 m
8. Spectrum Setting
   - Frequency Range = 9 kHz ~ 30 MHz
   - Detector = Peak
   - Trace = Maxhold
   - RBW = 9 kHz
   - VBW ≥ 3 x RBW
9. Total = Reading 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 1GHz)

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 3m from the EUT, which is varied from 1m to 4m 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 = Maxhold
      - RBW = 100 kHz
      - VBW ≥ 3 x RBW
   (2) Measurement Type(Quasi-peak):
      - Measured Frequency Range : 30 MHz – 1 GHz
      - Detector = Quasi-Peak
      - RBW = 120 kHz

   ※In general, (1) is used mainly
7. Total = Reading 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 1m to 4m to find out the highest emissions.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. The unit was tested with its standard battery.
8. Spectrum Setting

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

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

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

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

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

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

Test Procedure of Radiated Restricted Band Edge

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

   (2) Measurement Type (Average, G.6.c in KDB 789033 v02r01):
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - The analyzer is set to linear detector mode.
   - Averaging type = power (*i.e.*, RMS)
   - Sweep time = auto.
   - Trace mode = average (at least 100 traces).
   - If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.
9. Measured Frequency Range :
   - 4500MHz ~ 5150MHz
   - 5350MHz ~ 5460MHz
   - 5460MHz ~ 5470MHz

- (75 MHz or more below the 5725MHz) ~ 5725MHz
- 5850MHz ~ (75 MHz or more above the 5850MHz)

10. Distance extrapolation factor = 20log (test distance / specific distance) (dB)
11. Total = Reading Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G) + Attenuator + Distance Factor(D.F)

8.9. Worst case configuration and mode

Conducted test

1. All data rate of operation were investigated and the worst case results are reported.

-HE20 : MCS0(26Tone, 52Tone, 106Tone, 242Tone)
MCS2(SU)

-HE40 : MCS0(26Tone, 52Tone, 106Tone, 242Tone, 484Tone)
MCS5(SU)

-HE80 : MCS0(26Tone, 52Tone, 106Tone, 242Tone, 484Tone, 996Tone)
MCS0(SU)

Radiated test

1. Full RU(Resource Unit) mode and SU(Single Unit) mode have no difference in physical waveform.
This Report has been described Full RU(Resource Unit) mode with worst output power
2. All modes of operation were investigated and the worst case configuration results are reported.
- Mode : Stand alone + Notebook
- Worstcase : Stand alone + Notebook
3. EUT Axis
- Radiated Spurious Emissions : Z
- Radiated Restricted Band Edge : X
4. All data rate of operation were investigated and the worst case results are reported.
(Worst case : MCS0)
5. All Antenna of operation were investigated and the worst case results are reported
- Mode : Ant1(SISO), Ant2(SISO), Ant1+Ant2(SDM), Ant1+Ant2(CDD)
- Worstcase : Ant1+Ant2(CDD)
6. 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
7. All mode(Tone, RU Offset) of operation were investigated and the worst case configuration results are reported

Test	Tone	RU Offset
RSE	[HE 20] Worst case(Highest Power) : 242T [HE 40] Worst case(Highest Power) : 484T [HE 80] Worst case(Highest Power) : 996T	[HE 20] 61 [HE 40] 65 [HE 80] 97
Bandedge	[HE 20] Worst case(Highest Power) : 242T [HE 20] Worst case(Highest Power) : SU [HE 40] Worst case(Highest Power) : 484T [HE 40] Worst case(Highest Power) : SU [HE 80] Worst case(Highest Power) : 996T [HE 80] Worst case(Highest Power) : SU	[HE 20] 242T_61, SU_None [HE 40] 484T_65, SU_None [HE 80] 996T_97, SU_None

Radiated test(DBS)

1. All modes of operation were investigated and the worst case configuration results are reported.
   - Mode : Stand alone + Notebook
   - Worstcase : Stand alone + Notebook
2. LGSBWAX12 were tested and the worst case results are reported.
3. EUT Axis
   - Radiated Spurious Emissions : Z
4. Test case

RSDB	6GHz WIFI		2.4GHz WIFI		Test case
	Ant1	Ant2	Ant1	Ant2	
2.4 GHz + 6 GHz RSDB Only	A			B	Case1

Not RSDB	6GHz WIFI		2.4GHz Bluetooth	Test case
	Ant1	Ant2	Ant1	
Bluetooth + 6 GHz	A		C	-
		B	C	-
	A	B	C	Case2

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

Test case	Description	2.4 GHz Emission	6 GHz Emission
1	Antenna	Ant 2	Ant 1
	Channel	11	7
	Data Rate	1Mbps	MCS0
	Mode	802.11b	802.11ax(HE80)(996 Tone)

Test case	Description	Bluetooth Emission	6 GHz Emission
2	Antenna	Ant 1	Ant 1
	Channel	78	7
	Data Rate	1 Mbps	MCS 0
	Mode	8DPSK : 3-DH5	802.11ax(HE80)(996T)

AC Power line Conducted Emissions

1. Please refer to the LGSBWAX12 [6GHz 802.11ax] Test Report.

9. SUMMARY OF TEST RESULTS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
26dB Bandwidth	§ 15.407 (for Power Measurement)	Channel Bandwidth(EBW) < 320 MHz	Conducted	PASS
Output Power Maximum EIRP	§ 15.407(a)(4)~(8)	U-NII-5(5925-6425 MHz) & U-NII-7(6525-6875 MHz) Standard-Power Access Point (AFC Controlled) EIRP < 36 dBm Client(Connected to standard-Power Access Point) EIRP < 30 dBm U-NII-5(5925-6425 MHz) & U-NII-6(6425-6525 MHz) U-NII-7(6525-6875 MHz) & U-NII-8(6875-7125 MHz) Low-Power Access Point (indoor only) EIRP < 30 dBm Client (Connected to Low-Power Access Point) EIRP < 24 dBm		PASS
Output Power Maximum EIRP Power Spectral Density	§ 15.407(a)(4)~(8)	U-NII-5(5925-6425 MHz) & U-NII-7(6525-6875 MHz) Standard-Power Access Point (AFC Controlled) < 33 dBm/MHz (EIRP) Client(Connected to standard-Power Access Point) < 17 dBm/MHz (EIRP) U-NII-5(5925-6425 MHz) & U-NII-6(6425-6525 MHz) U-NII-7(6525-6875 MHz) & U-NII-8(6875-7125 MHz) Low-Power Access Point (indoor only) < 5 dBm/MHz (EIRP) Client (Connected to Low-Power Access Point) < -1 dBm/MHz (EIRP)		PASS
AC Conducted Emissions 150 kHz-30 MHz	15.407 (b)(8)	<FCC 15.207 limits		PASS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
Contention Based Protocol	§15.407(d)(6)	Detect co-channel energy with 90% or greater certainty.	Conducted	PASS
In-Band Emissions (Emissions Mask)	§15.407(b)(6)	For transmitters operating within the (5925-7125 MHz) bands Power spectral density (channel bandwidth =26dB EBW) a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.) b. Suppressed by 28 dB at one channel bandwidth from the channel center. c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center. See The Note 2)		PASS
Undesirable Emissions	§ 15.407(b)	<-27 dBm/MHz EIRP (UNII5, 6, 7, 8)	Radiated	PASS
General Field Strength Limits(Restricted Bands and Radiated Emission Limits)	15.205, 15.407(b)(5), (6)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS

10. TEST RESULT

10.1 DUTY CYCLE

802.11ax(HE20)

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (HE20)	26	MCS0	1.602	1.647	0.973	0.120
		MCS1	1.525	1.565	0.974	0.112
		MCS2	1.945	1.990	0.977	0.099
		MCS3	1.485	1.530	0.971	0.130
		MCS4	1.011	1.053	0.960	0.177
		MCS5	0.780	0.825	0.945	0.244
		MCS6	0.699	0.744	0.940	0.271
		MCS7	0.639	0.684	0.934	0.296
		MCS8	0.543	0.588	0.923	0.346
		MCS9	0.498	0.543	0.917	0.376
		MCS10	0.447	0.492	0.909	0.417
		MCS11	0.417	0.459	0.908	0.417
	52	MCS0	1.524	1.569	0.971	0.126
		MCS1	1.480	1.525	0.970	0.130
		MCS2	1.920	1.967	0.976	0.104
		MCS3	1.460	1.505	0.970	0.132
		MCS4	0.995	1.040	0.957	0.192
		MCS5	0.765	0.810	0.944	0.248
		MCS6	0.687	0.732	0.939	0.276
		MCS7	0.630	0.675	0.933	0.300
		MCS8	0.537	0.579	0.927	0.327
		MCS9	0.492	0.534	0.921	0.356
		MCS10	0.444	0.488	0.910	0.410
		MCS11	0.410	0.456	0.899	0.462
	106	MCS0	1.398	1.443	0.969	0.138
		MCS1	1.380	1.425	0.968	0.139
		MCS2	1.800	1.842	0.977	0.100
		MCS3	1.368	1.413	0.968	0.141
		MCS4	0.933	0.978	0.954	0.205
		MCS5	0.720	0.765	0.941	0.263

		MCS6	0.648	0.693	0.935	0.292
		MCS7	0.591	0.636	0.929	0.319
		MCS8	0.501	0.546	0.918	0.374
		MCS9	0.462	0.506	0.913	0.395
		MCS10	0.420	0.464	0.905	0.433
		MCS11	0.384	0.428	0.897	0.471
	242	MCS0	1.212	1.257	0.964	0.158
		MCS1	1.204	1.248	0.965	0.156
		MCS2	1.572	1.614	0.974	0.115
		MCS3	1.200	1.242	0.966	0.149
		MCS4	0.822	0.867	0.948	0.231
		MCS5	0.636	0.681	0.934	0.297
		MCS6	0.570	0.615	0.927	0.330
		MCS7	0.525	0.567	0.926	0.334
		MCS8	0.447	0.492	0.909	0.417
		MCS9	0.412	0.456	0.904	0.441
		MCS10	0.370	0.416	0.889	0.509
		MCS11	0.344	0.388	0.887	0.523

802.11ax(HE40)

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax(HE40)	26	MCS0	1.581	1.650	0.958	0.186
		MCS1	1.521	1.569	0.969	0.135
		MCS2	1.947	1.992	0.977	0.099
		MCS3	1.485	1.530	0.971	0.130
		MCS4	1.011	1.056	0.957	0.189
		MCS5	0.780	0.825	0.945	0.244
		MCS6	0.699	0.744	0.940	0.271
		MCS7	0.639	0.684	0.934	0.296
		MCS8	0.543	0.588	0.923	0.346
		MCS9	0.499	0.543	0.919	0.367
		MCS10	0.450	0.491	0.916	0.379
		MCS11	0.414	0.459	0.902	0.448
	52	MCS0	1.506	1.575	0.956	0.195
		MCS1	1.485	1.530	0.971	0.130
		MCS2	1.920	1.962	0.979	0.094
		MCS3	1.461	1.506	0.970	0.132
		MCS4	0.996	1.041	0.957	0.192
		MCS5	0.768	0.813	0.945	0.247
		MCS6	0.681	0.732	0.930	0.314
		MCS7	0.627	0.675	0.929	0.320
		MCS8	0.537	0.582	0.923	0.349
		MCS9	0.492	0.534	0.921	0.356
		MCS10	0.441	0.486	0.907	0.422
		MCS11	0.414	0.456	0.908	0.420
	106	MCS0	1.374	1.443	0.952	0.213
		MCS1	1.380	1.422	0.970	0.130
		MCS2	1.800	1.845	0.976	0.107
		MCS3	1.368	1.413	0.968	0.141
		MCS4	0.936	0.981	0.954	0.204
		MCS5	0.720	0.762	0.945	0.247
		MCS6	0.648	0.693	0.935	0.292
		MCS7	0.591	0.636	0.929	0.319
		MCS8	0.501	0.546	0.918	0.374

		MCS9	0.459	0.507	0.905	0.432
		MCS10	0.420	0.462	0.909	0.414
		MCS11	0.384	0.426	0.901	0.451
	242	MCS0	1.212	1.257	0.964	0.158
		MCS1	1.206	1.248	0.966	0.149
		MCS2	1.569	1.614	0.972	0.123
		MCS3	1.197	1.242	0.964	0.160
		MCS4	0.825	0.870	0.948	0.231
		MCS5	0.636	0.681	0.934	0.297
		MCS6	0.570	0.615	0.927	0.330
		MCS7	0.522	0.567	0.921	0.359
		MCS8	0.477	0.492	0.970	0.134
		MCS9	0.411	0.456	0.901	0.451
		MCS10	0.372	0.414	0.899	0.465
		MCS11	0.351	0.393	0.893	0.491
	484	MCS0	1.203	1.248	0.964	0.159
		MCS1	1.197	1.242	0.964	0.160
		MCS2	1.572	1.614	0.974	0.115
		MCS3	1.197	1.239	0.966	0.150
		MCS4	0.819	0.864	0.948	0.232
		MCS5	0.636	0.681	0.934	0.297
		MCS6	0.573	0.618	0.927	0.328
		MCS7	0.525	0.570	0.921	0.357
		MCS8	0.447	0.492	0.909	0.417
		MCS9	0.414	0.458	0.904	0.439
		MCS10	0.369	0.414	0.891	0.500
		MCS11	0.342	0.387	0.884	0.537

802.11ax(HE80)

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (HE80)	26	MCS0	1.581	1.650	0.958	0.186
		MCS1	1.524	1.566	0.973	0.118
		MCS2	1.947	1.992	0.977	0.099
		MCS3	1.482	1.527	0.971	0.130
		MCS4	1.011	1.056	0.957	0.189
		MCS5	0.780	0.822	0.949	0.228
		MCS6	0.699	0.744	0.940	0.271
		MCS7	0.639	0.684	0.934	0.296
		MCS8	0.543	0.588	0.923	0.346
		MCS9	0.501	0.543	0.923	0.350
		MCS10	0.450	0.492	0.915	0.388
		MCS11	0.414	0.459	0.902	0.448
	52	MCS0	1.503	1.569	0.958	0.187
		MCS1	1.482	1.527	0.971	0.130
		MCS2	1.917	1.962	0.977	0.101
		MCS3	1.461	1.503	0.972	0.123
		MCS4	0.996	1.041	0.957	0.192
		MCS5	0.768	0.813	0.945	0.247
		MCS6	0.687	0.732	0.939	0.276
		MCS7	0.630	0.675	0.933	0.300
		MCS8	0.531	0.576	0.922	0.353
		MCS9	0.492	0.537	0.916	0.380
		MCS10	0.444	0.489	0.908	0.419
		MCS11	0.411	0.456	0.901	0.451
	106	MCS0	1.380	1.446	0.954	0.203
		MCS1	1.380	1.425	0.968	0.139
		MCS2	1.800	1.845	0.976	0.107
		MCS3	1.368	1.413	0.968	0.141
		MCS4	0.936	0.981	0.954	0.204
		MCS5	0.720	0.765	0.941	0.263
		MCS6	0.648	0.693	0.935	0.292
		MCS7	0.591	0.636	0.929	0.319

		MCS8	0.504	0.549	0.918	0.371
		MCS9	0.465	0.507	0.917	0.376
		MCS10	0.420	0.465	0.903	0.442
		MCS11	0.384	0.429	0.895	0.481
	242	MCS0	1.194	1.254	0.952	0.213
		MCS1	1.203	1.248	0.964	0.159
		MCS2	1.572	1.617	0.972	0.123
		MCS3	1.200	1.245	0.964	0.160
		MCS4	0.825	0.870	0.948	0.231
		MCS5	0.636	0.681	0.934	0.297
		MCS6	0.570	0.615	0.927	0.330
		MCS7	0.525	0.567	0.926	0.334
		MCS8	0.444	0.489	0.908	0.419
		MCS9	0.414	0.456	0.908	0.420
		MCS10	0.372	0.417	0.892	0.496
		MCS11	0.342	0.387	0.884	0.537
	484	MCS0	1.203	1.248	0.964	0.159
		MCS1	1.197	1.242	0.964	0.160
		MCS2	1.572	1.617	0.972	0.123
		MCS3	1.197	1.242	0.964	0.160
		MCS4	0.819	0.864	0.948	0.232
		MCS5	0.636	0.681	0.934	0.297
		MCS6	0.573	0.618	0.927	0.328
		MCS7	0.525	0.570	0.921	0.357
		MCS8	0.447	0.492	0.909	0.417
		MCS9	0.411	0.456	0.901	0.451
		MCS10	0.372	0.417	0.892	0.496
		MCS11	0.345	0.387	0.891	0.499
	996	MCS0	1.149	1.194	0.962	0.167
		MCS1	1.136	1.181	0.962	0.169
		MCS2	0.783	0.800	0.979	0.093
		MCS3	0.610	0.649	0.940	0.269
		MCS4	0.430	0.476	0.903	0.441
		MCS5	0.343	0.388	0.884	0.537
		MCS6	0.310	0.349	0.890	0.508
		MCS7	0.288	0.332	0.867	0.617
		MCS8	0.252	0.296	0.851	0.699
		MCS9	0.233	0.278	0.838	0.767

		MCS10	0.214	0.259	0.826	0.829
		MCS11	0.204	0.248	0.823	0.848

Mode	BW	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (SU)	BW 20	MCS0	0.312	0.555	0.562	2.501
		MCS1	0.309	0.561	0.551	2.590
		MCS2	0.384	0.654	0.587	2.312
		MCS3	0.306	0.576	0.531	2.747
		MCS4	0.224	0.494	0.454	3.434
		MCS5	0.187	0.457	0.409	3.877
		MCS6	0.175	0.445	0.393	4.055
		MCS7	0.167	0.437	0.382	4.175
		MCS8	0.147	0.416	0.354	4.507
		MCS9	0.144	0.413	0.349	4.568
		MCS10	0.130	0.363	0.359	4.454
		MCS11	0.126	0.368	0.342	4.665
	BW 40	MCS0	0.309	0.561	0.551	2.590
		MCS1	0.307	0.577	0.532	2.741
		MCS2	0.383	0.689	0.557	2.544
		MCS3	0.307	0.613	0.500	3.010
		MCS4	0.225	0.531	0.425	3.717
		MCS5	0.187	0.494	0.379	4.214
		MCS6	0.175	0.480	0.364	4.386
		MCS7	0.163	0.468	0.347	4.591
		MCS8	0.147	0.452	0.325	4.875
		MCS9	0.140	0.445	0.314	5.035
		MCS10	0.129	0.434	0.297	5.275
		MCS11	0.121	0.426	0.284	5.466
	BW 80	MCS0	0.297	0.567	0.524	2.808
		MCS1	0.296	0.601	0.492	3.078
		MCS2	0.370	0.756	0.489	3.108
		MCS3	0.296	0.682	0.434	3.628
		MCS4	0.216	0.638	0.339	4.699
		MCS5	0.179	0.475	0.377	4.231
		MCS6	0.166	0.552	0.300	5.229
		MCS7	0.156	0.543	0.288	5.404
		MCS8	0.143	0.475	0.300	5.228

		MCS9	0.135	0.521	0.259	5.871
		MCS10	0.126	0.475	0.264	5.776
		MCS11	0.123	0.508	0.242	6.166

10.2 26DB BANDWIDTH

10.2.1 Ant1

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

Straddle channel data were added in section 10.6.1.

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	26dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5955	1	Low	20.29	20.19	21.08	-	-
			Mid	18.06	18.26	-	23.00	24.86
			High	20.72	20.67	22.24	-	-
	6175	45	Low	19.95	20.69	21.30	-	-
			Mid	16.97	18.39	-	21.82	22.91
			High	17.70	22.36	24.81	-	-
	6415	93	Low	20.63	21.09	21.26	-	-
			Mid	18.07	18.25	-	21.93	23.72
			High	20.34	20.49	21.97	-	-
UNII 6	6435	97	Low	20.26	21.68	20.93	-	-
			Mid	18.01	18.33	-	21.52	25.75
			High	20.43	20.19	23.16	-	-
	6475	105	Low	20.26	20.41	22.73	-	-
			Mid	18.14	18.27	-	21.76	22.41
			High	20.39	20.45	21.42	-	-
	6515	113	Low	20.18	20.40	21.80	-	-
			Mid	18.02	18.11	-	26.96	24.78
			High	20.78	20.53	21.95	-	-
UNII 7	6535	117	Low	20.48	20.72	21.04	-	-
			Mid	18.11	19.45	-	26.79	22.21
			High	20.81	20.41	20.75	-	-
	6695	149	Low	20.56	20.53	22.84	-	-
			Mid	18.03	18.42	-	22.36	23.18
			High	20.32	20.61	20.95	-	-
	6855	181	Low	20.28	20.43	20.96	-	-
			Mid	18.12	18.37	-	22.28	22.81

			High	20.58	21.17	21.75	-	-
UNII 8	6895	189	Low	20.42	21.31	20.20	-	-
			Mid	18.08	18.83	-	25.53	25.29
			High	20.28	21.54	20.85	-	-
	6995	209	Low	20.32	20.91	22.25	-	-
			Mid	17.96	18.17	-	23.01	24.19
			High	20.29	20.78	21.67	-	-
	7095	229	Low	20.27	20.14	21.42	-	-
			Mid	17.98	18.28	-	22.91	23.95
			High	20.47	20.88	21.06	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	26dB BW(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	18.95	18.95	19.06	39.35	-	-
			Mid	21.68	22.70	22.67	-	39.37	39.54
			High	19.02	18.92	19.02	39.27	-	-
	6165	43	Low	18.93	19.03	19.13	39.26	-	-
			Mid	22.24	22.67	23.03	-	39.50	39.38
			High	19.04	19.22	19.29	39.26	-	-
	6405	91	Low	20.25	20.63	20.39	39.30	-	-
			Mid	22.31	22.44	23.21	-	39.37	39.34
			High	18.94	19.10	19.25	39.27	-	-
UNII 6	6445	99	Low	18.92	19.02	19.28	39.35	-	-
			Mid	22.23	22.58	22.90	-	39.37	39.41
			High	18.90	19.12	19.75	39.07	-	-
	6485	107	Low	18.91	20.45	19.14	39.39	-	-
			Mid	22.17	22.12	23.77	-	39.34	39.47
			High	18.91	19.21	19.69	39.64	-	-
UNII 7	6565	123	Low	18.93	19.01	20.79	39.37	-	-
			Mid	21.97	23.00	22.30	-	39.44	39.42
			High	19.01	18.73	19.49	39.51	-	-
	6685	147	Low	18.83	18.98	19.28	39.09	-	-
			Mid	22.16	23.85	24.12	-	39.58	39.49
			High	18.90	19.06	19.61	39.41	-	-
	6845	179	Low	18.96	19.00	19.22	39.25	-	-
			Mid	21.54	22.64	22.26	-	39.33	39.44
			High	18.99	18.98	19.48	39.51	-	-
UNII 8	6925	195	Low	18.87	20.79	19.20	39.13	-	-
			Mid	21.75	23.20	23.10	-	39.35	39.33
			High	18.96	18.99	19.67	39.49	-	-
	7005	211	Low	20.20	22.50	20.88	39.44	-	-
			Mid	22.38	22.50	24.15	-	39.61	39.29
			High	19.03	19.03	19.65	39.06	-	-
	7085	227	Low	18.90	20.90	21.71	39.06	-	-
			Mid	22.39	22.20	23.24	-	39.38	39.55
			High	18.81	19.19	19.56	38.88	-	-

802.11ax(HE80)

HE80	Freq. [MHz]	Channel No.	RU Index	26dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	19.37	19.63	20.69	24.78	79.84	-	-
			Mid	21.01	23.22	25.28	43.90	-	80.07	80.15
			High	19.24	19.68	20.44	25.67	79.88	-	-
	6145	39	Low	19.59	19.71	21.16	24.78	79.85	-	-
			Mid	22.11	22.85	24.68	44.85	-	79.72	80.11
			High	19.11	19.52	20.19	24.61	80.15	-	-
	6385	87	Low	19.51	20.01	20.85	26.95	79.74	-	-
			Mid	20.99	22.92	27.32	47.59	-	80.10	80.09
			High	19.11	19.39	20.24	25.78	79.87	-	-
UNII 6	6465	103	Low	19.63	20.30	20.61	24.54	79.90	-	-
			Mid	21.87	23.53	26.29	45.56	-	79.86	79.83
			High	18.98	19.53	20.24	26.17	79.88	-	-
UNII 7	6625	135	Low	19.52	19.84	20.44	24.72	80.14	-	-
			Mid	22.04	22.44	25.04	43.89	-	79.98	80.08
			High	19.09	19.49	19.79	23.22	79.96	-	-
	6705	151	Low	19.69	19.90	20.79	24.49	79.91	-	-
			Mid	21.50	22.55	24.83	44.58	-	80.07	80.08
			High	19.11	19.81	20.35	27.00	79.49	-	-
	6785	167	Low	19.76	19.98	20.94	26.86	80.04	-	-
			Mid	22.22	23.37	24.08	44.20	-	80.04	80.22
			High	19.23	19.62	19.70	24.32	79.61	-	-
UNII 8	6945	199	Low	19.29	19.64	20.06	25.79	79.94	-	-
			Mid	22.04	23.32	28.52	44.03	-	80.09	80.21
			High	18.90	19.38	19.42	24.79	79.88	-	-
	7025	215	Low	19.35	19.86	20.70	25.73	79.59	-	-
			Mid	22.08	22.61	26.78	45.35	-	80.21	80.08
			High	19.20	19.44	20.09	24.57	79.78	-	-

10.2.2 Ant2

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

Straddle channel data were added in section 10.6.1.

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	26dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5955	1	Low	20.14	20.15	20.77	-	-
			Mid	18.02	18.13	-	22.58	22.00
			High	20.23	21.02	20.26	-	-
	6175	45	Low	20.20	20.67	20.51	-	-
			Mid	18.05	18.13	-	24.74	21.81
			High	20.25	20.38	20.19	-	-
	6415	93	Low	20.28	20.08	20.06	-	-
			Mid	18.05	18.15	-	25.13	23.29
			High	20.07	20.36	21.70	-	-
UNII 6	6435	97	Low	20.08	20.53	20.52	-	-
			Mid	18.00	18.10	-	22.30	22.28
			High	20.14	20.16	20.55	-	-
	6475	105	Low	19.73	20.12	20.74	-	-
			Mid	18.03	18.09	-	23.40	23.68
			High	20.21	20.73	20.83	-	-
	6515	113	Low	20.12	19.97	20.91	-	-
			Mid	18.02	18.14	-	23.18	24.84
			High	20.23	20.17	21.26	-	-
UNII 7	6535	117	Low	20.04	20.34	21.27	-	-
			Mid	18.03	18.11	-	21.94	23.65
			High	20.43	20.29	20.74	-	-
	6695	149	Low	20.12	20.29	20.61	-	-
			Mid	18.02	18.18	-	24.01	25.22
			High	20.33	20.35	20.17	-	-
	6855	181	Low	20.06	20.12	20.66	-	-
			Mid	18.02	18.08	-	22.15	22.72
			High	20.23	20.00	20.24	-	-
UNII 8	6895	189	Low	20.10	20.07	20.72	-	-

			Mid	18.00	18.19	-	23.09	23.38
			High	20.20	20.46	20.33	-	-
	6995	209	Low	20.18	20.99	20.11	-	-
			Mid	18.07	18.17	-	21.86	23.31
			High	20.24	20.26	21.46	-	-
	7095	229	Low	20.14	19.98	21.84	-	-
			Mid	18.03	18.19	-	23.32	23.61
			High	20.05	20.06	20.45	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	26dB BW(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	19.02	19.06	19.23	39.35	-	-
			Mid	22.02	22.60	23.21	-	39.32	39.39
			High	19.20	19.28	19.69	39.37	-	-
	6165	43	Low	18.96	19.11	19.06	39.41	-	-
			Mid	22.07	22.49	22.72	-	39.48	39.42
			High	19.17	19.26	19.75	39.42	-	-
	6405	91	Low	19.00	19.15	19.16	39.39	-	-
			Mid	22.03	22.15	22.59	-	39.44	39.27
			High	19.16	19.41	19.64	39.30	-	-
UNII 6	6445	99	Low	18.92	19.16	19.35	39.32	-	-
			Mid	22.14	23.15	23.25	-	39.23	39.33
			High	19.06	19.28	19.59	39.32	-	-
	6485	107	Low	18.97	19.02	19.28	39.31	-	-
			Mid	21.61	22.93	23.56	-	39.36	39.48
			High	19.23	19.40	19.49	39.46	-	-
UNII 7	6565	123	Low	19.01	19.13	19.30	39.39	-	-
			Mid	22.21	22.47	23.11	-	39.39	39.40
			High	18.99	19.30	19.29	39.39	-	-
	6685	147	Low	19.02	19.02	19.21	39.27	-	-
			Mid	21.96	21.63	23.57	-	39.38	39.34
			High	19.17	19.41	19.72	39.35	-	-
	6845	179	Low	18.90	19.08	19.08	39.25	-	-
			Mid	21.85	23.06	23.43	-	39.39	39.33
			High	19.15	19.31	19.62	39.25	-	-
UNII 8	6925	195	Low	18.99	18.97	19.14	39.32	-	-
			Mid	22.44	24.08	23.08	-	39.39	39.29
			High	19.10	19.32	19.86	39.32	-	-
	7005	211	Low	18.92	19.02	19.27	39.24	-	-
			Mid	22.24	22.77	23.12	-	39.32	39.40
			High	19.22	19.39	19.54	39.36	-	-
	7085	227	Low	19.00	19.04	19.31	39.42	-	-
			Mid	22.46	23.05	22.90	-	39.43	39.29
			High	19.06	19.31	19.78	39.02	-	-

802.11ax(HE80)

HE80	Freq. [MHz]	Channel No.	RU Index	26dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	19.10	19.33	19.83	24.07	79.51	-	-
			Mid	21.14	21.57	22.10	43.10	-	80.03	80.16
			High	19.03	19.10	19.24	23.54	79.32	-	-
	6145	39	Low	18.98	19.02	20.04	24.66	79.32	-	-
			Mid	20.82	21.26	21.97	43.41	-	79.86	79.84
			High	19.00	19.25	19.30	25.43	79.32	-	-
	6385	87	Low	19.12	19.55	19.86	24.03	79.38	-	-
			Mid	20.05	21.82	23.48	44.10	-	79.91	79.84
			High	18.92	19.19	19.37	24.43	79.67	-	-
UNII 6	6465	103	Low	19.99	19.36	19.77	24.16	79.39	-	-
			Mid	20.86	22.17	24.92	44.03	-	80.03	80.08
			High	19.00	19.27	19.31	25.91	79.66	-	-
UNII 7	6625	135	Low	19.11	19.00	19.65	24.62	79.26	-	-
			Mid	20.46	22.12	23.34	43.17	-	80.17	80.28
			High	19.04	19.18	19.35	24.21	79.62	-	-
	6705	151	Low	19.12	19.51	20.36	24.16	79.81	-	-
			Mid	20.70	20.79	23.20	43.43	-	79.92	79.83
			High	18.92	19.36	19.20	23.37	79.88	-	-
	6785	167	Low	19.14	19.23	19.66	24.43	79.56	-	-
			Mid	20.77	21.46	21.53	44.81	-	79.95	79.87
			High	18.93	19.21	19.22	23.42	79.55	-	-
UNII 8	6945	199	Low	18.80	19.27	19.56	24.05	79.68	-	-
			Mid	20.84	21.61	21.62	42.59	-	79.94	79.69
			High	19.04	19.04	19.37	22.72	79.28	-	-
	7025	215	Low	19.15	19.35	20.13	23.53	79.37	-	-
			Mid	20.32	21.61	22.45	41.86	-	79.89	80.14
			High	19.04	19.17	19.26	24.52	79.46	-	-

10.3 OUTPUT POWER MEASUREMENT

Power Level Setting

802.11ax(HE20)		Frequency [MHz]	Channel No.	26 T	52T	106T	242 T	SU
UNII 5	Low	5955	1	-6.5	-6.5	-6.5	1.5	1.5
	Mid	6175	45					
	High	6415	93					
UNII 6	Low	6435	97					
	Mid	6475	105					
	High	6515	113					
UNII 7	Low	6535	117	-7.5	-7.5	-7.5		
	Mid	6695	149					
	High	6855	181					
UNII 8	Low	6895	189	-8.5	-8.5	-8.5	0.5	0.5
	Mid	6995	209					
	High	7095	229					

802.11ax(HE40)		Frequency [MHz]	Channel No.	26 T	52T	106T	242 T	484T	SU
UNII 5	Low	5965	3	-6.5	-6.5	-6.5	-6.5	4.0	4.0
	Mid	6165	43						
	High	6405	91						
UNII 6	Low	6445	99						
	High	6485	107						
UNII 7	Low	6565	123	-7.5	-7.5	-7.5	-7.5	3.5	3.5
	Mid	6685	147						
	High	6845	179						
UNII 8	Low	6925	195	-8.5	-8.5	-8.5	-8.5	2.5	2.5
	Mid	7005	211						
	High	7085	227						

802.11ax(HE80)		Frequency [MHz]	Channel No.	26 T	52T	106 T	242 T	484 T	996T	SU
UNII 5	Low	5985	7	-6.5	-6.5	-6.5	-6.5	-6.5	7.0	7.0
	Mid	6145	39							
	High	6385	87							
UNII 6	Mid	6465	103							
UNII 7	Low	6625	135							
	Mid	6705	151							
	High	6785	167							
UNII 8	Low	6945	199	-8.5	-8.5	-8.5	-8.5	-8.5	5.5	5.5
	High	7025	215							

10.3.1 Ant1

Straddle channel data in the table below are for reporting purposes only.
Straddle channel data were added in section 10.6.3.

EIRP Power = Duty Factor + Reading Value Power + Peak Ant. Gain

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	EIRP Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5955	1	Low	-4.84	-4.86	-4.69	-	-
			Mid	-4.86	-4.72	-	3.33	3.30
			High	-4.89	-4.80	-4.75	-	-
	6175	45	Low	-4.59	-4.45	-4.40	-	-
			Mid	-4.50	-4.42	-	2.98	2.55
			High	-4.76	-4.57	-4.51	-	-
	6415	93	Low	-5.95	-5.79	-5.75	-	-
			Mid	-5.76	-5.63	-	2.47	2.36
			High	-5.76	-5.77	-5.58	-	-
UNII 6	6435	97	Low	-5.72	-5.58	-5.46	-	-
			Mid	-5.55	-5.50	-	2.82	2.56
			High	-5.41	-5.27	-5.18	-	-
	6475	105	Low	-5.39	-5.38	-5.06	-	-
			Mid	-5.39	-5.23	-	2.98	2.58
			High	-5.38	-5.29	-5.12	-	-
	6515	113	Low	-5.61	-5.60	-5.32	-	-
			Mid	-5.58	-5.58	-	2.66	2.64
			High	-5.64	-5.53	-5.31	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	EIRP Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 7	6535	117	Low	-5.73	-5.77	-5.95	-	-
			Mid	-5.46	-5.64	-	3.14	3.00
			High	-5.29	-5.40	-5.69	-	-
	6695	149	Low	-5.16	-5.02	-5.15	-	-
			Mid	-5.28	-4.95	-	3.33	3.14
			High	-5.23	-5.14	-5.35	-	-
	6855	181	Low	-4.74	-4.41	-4.52	-	-
			Mid	-4.39	-4.33	-	3.44	3.10
			High	-4.27	-4.19	-4.37	-	-
UNII 8	6895	189	Low	-3.97	-4.08	-4.07	-	-
			Mid	-3.99	-3.92	-	3.55	3.50
			High	-4.20	-4.21	-4.18	-	-
	6995	209	Low	-3.95	-4.24	-4.18	-	-
			Mid	-3.78	-4.12	-	3.55	3.49
			High	-3.86	-4.18	-3.95	-	-
	7095	229	Low	-4.35	-4.44	-4.22	-	-
			Mid	-4.05	-4.15	-	3.69	3.57
			High	-4.00	-4.11	-4.05	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	EIRP Power(dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	-5.28	-5.30	-5.34	-5.48	-	-
			Mid	-4.87	-5.16	-5.27	-	5.45	1.71
			High	-5.16	-5.38	-5.49	-5.55	-	-
	6165	43	Low	-4.76	-5.04	-5.10	-5.12	-	-
			Mid	-4.57	-4.81	-5.07	-	5.22	1.39
			High	-4.99	-5.18	-5.23	-5.25	-	-
	6405	91	Low	-6.09	-6.20	-6.31	-5.92	-	-
			Mid	-5.75	-6.01	-6.28	-	5.69	1.23
			High	-5.76	-6.10	-6.22	-5.67	-	-
UNII 6	6445	99	Low	-6.07	-5.90	-5.83	-5.48	-	-
			Mid	-5.40	-5.38	-5.48	-	5.31	1.46
			High	-5.56	-5.47	-5.53	-5.35	-	-
	6485	107	Low	-5.67	-5.72	-5.77	-5.48	-	-
			Mid	-5.62	-5.46	-5.69	-	5.58	1.45
			High	-6.07	-5.77	-5.90	-5.55	-	-
UNII 7	6565	123	Low	-6.26	-6.01	-6.42	-6.17	-	-
			Mid	-5.83	-5.70	-6.24	-	5.19	1.52
			High	-6.07	-6.02	-6.23	-6.10	-	-
	6685	147	Low	-5.84	-6.36	-6.16	-5.66	-	-
			Mid	-5.74	-5.82	-6.20	-	5.12	1.61
			High	-6.17	-6.23	-6.44	-5.92	-	-
	6845	179	Low	-5.79	-5.56	-5.94	-5.68	-	-
			Mid	-5.39	-4.91	-5.61	-	4.99	1.52
			High	-5.01	-5.19	-5.60	-5.51	-	-
UNII 8	6925	195	Low	-5.07	-5.01	-6.29	-5.85	-	-
			Mid	-4.62	-4.76	-5.90	-	5.12	1.32
			High	-4.86	-4.81	-6.14	-5.77	-	-
	7005	211	Low	-4.67	-4.70	-6.57	-5.73	-	-
			Mid	-4.56	-4.58	-6.07	-	5.43	1.59
			High	-4.64	-4.84	-6.24	-5.72	-	-
	7085	227	Low	-4.78	-4.73	-6.31	-5.85	-	-
			Mid	-4.65	-4.79	-6.04	-	5.48	1.73
			High	-4.72	-4.63	-6.26	-5.94	-	-

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	EIRP Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	-5.38	-5.44	-5.56	-5.45	-5.27	-	-
			Mid	-5.18	-5.37	-5.39	-5.17	-	7.65	5.85
			High	-4.96	-4.90	-5.10	-5.04	-4.89	-	-
	6145	39	Low	-5.12	-5.42	-5.32	-4.81	-4.94	-	-
			Mid	-4.93	-5.23	-5.20	-5.06	-	7.36	5.61
			High	-5.20	-5.50	-5.21	-5.22	-4.88	-	-
	6385	87	Low	-5.74	-5.71	-5.79	-5.73	-5.64	-	-
			Mid	-5.92	-6.04	-6.07	-6.12	-	7.16	5.31
			High	-6.07	-5.98	-6.17	-6.16	-5.98	-	-
UNII 6	6465	103	Low	-5.81	-5.80	-5.66	-5.73	-5.68	-	-
			Mid	-5.59	-5.71	-5.67	-5.72	-	7.73	5.58
			High	-5.78	-5.81	-5.85	-5.83	-5.91	-	-
UNII 7	6625	135	Low	-5.02	-5.10	-4.97	-5.30	-5.66	-	-
			Mid	-5.12	-5.16	-5.28	-5.31	-	7.92	5.77
			High	-4.52	-4.59	-4.89	-5.03	-5.24	-	-
	6705	151	Low	-4.61	-4.74	-4.70	-4.82	-5.30	-	-
			Mid	-5.03	-5.03	-5.24	-5.23	-	7.85	6.07
			High	-4.71	-4.80	-4.90	-5.02	-5.68	-	-
	6785	167	Low	-5.07	-5.13	-5.07	-4.67	-4.91	-	-
			Mid	-4.81	-4.93	-4.94	-5.17	-	7.86	5.91
			High	-4.74	-5.01	-4.95	-5.41	-5.04	-	-
UNII 8	6945	199	Low	-4.90	-4.86	-5.10	-5.47	-5.23	-	-
			Mid	-4.70	-4.76	-5.02	-5.12	-	7.09	5.43
			High	-4.44	-4.51	-4.83	-4.96	-4.96	-	-
	7025	215	Low	-4.62	-4.71	-4.87	-5.03	-4.82	-	-
			Mid	-4.54	-4.66	-4.91	-4.92	-	7.10	5.70
			High	-4.55	-4.53	-4.77	-4.88	-4.78	-	-

10.3.2 Ant2

Straddle channel data in the table below are for reporting purposes only.
Straddle channel data were added in section 10.6.3.

EIRP Power = Duty Factor + Reading Value Power + Peak Ant. Gain

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	EIRP Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5955	1	Low	-4.18	-4.17	-4.17	-	-
			Mid	-4.10	-4.04	-	4.12	4.09
			High	-4.14	-4.23	-4.25	-	-
	6175	45	Low	-3.76	-3.77	-3.89	-	-
			Mid	-3.71	-3.76	-	3.74	3.81
			High	-3.91	-3.97	-3.97	-	-
	6415	93	Low	-4.51	-4.50	-4.57	-	-
			Mid	-4.48	-4.46	-	3.54	3.48
			High	-4.36	-4.23	-4.49	-	-
UNII 6	6435	97	Low	-4.42	-4.27	-4.38	-	-
			Mid	-4.14	-4.16	-	3.70	3.55
			High	-4.12	-4.06	-4.13	-	-
	6475	105	Low	-4.06	-3.99	-4.14	-	-
			Mid	-4.11	-3.89	-	3.91	3.75
			High	-4.18	-3.91	-4.16	-	-
	6515	113	Low	-4.26	-4.21	-4.09	-	-
			Mid	-4.15	-4.05	-	3.81	3.77
			High	-4.19	-3.91	-4.20	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	EIRP Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 7	6535	117	Low	-4.90	-4.67	-4.68	-	-
			Mid	-4.60	-4.64	-	4.48	4.49
			High	-4.59	-4.50	-4.26	-	-
	6695	149	Low	-4.38	-3.99	-3.92	-	-
			Mid	-4.22	-3.86	-	4.73	4.88
			High	-4.37	-3.96	-3.99	-	-
	6855	181	Low	-4.01	-3.95	-3.62	-	-
			Mid	-3.84	-3.55	-	4.58	4.60
			High	-3.93	-3.46	-3.64	-	-
UNII 8	6895	189	Low	-4.58	-4.43	-4.29	-	-
			Mid	-4.36	-4.20	-	4.30	4.02
			High	-4.44	-4.19	-4.31	-	-
	6995	209	Low	-4.82	-4.61	-4.54	-	-
			Mid	-4.77	-4.54	-	4.25	4.27
			High	-4.73	-4.66	-4.62	-	-
	7095	229	Low	-4.89	-4.91	-4.88	-	-
			Mid	-4.76	-4.71	-	4.27	4.22
			High	-4.93	-4.75	-4.85	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	EIRP Power(dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	-5.07	-5.16	-5.06	-4.73	-	-
			Mid	-4.97	-5.11	-4.88	-	6.38	2.73
			High	-5.18	-5.17	-5.03	-4.85	-	-
	6165	43	Low	-4.92	-4.76	-4.72	-4.50	-	-
			Mid	-4.47	-4.47	-4.37	-	6.24	2.56
			High	-4.75	-4.76	-4.83	-4.56	-	-
	6405	91	Low	-5.30	-5.44	-5.15	-4.88	-	-
			Mid	-5.02	-5.10	-5.00	-	5.91	2.17
			High	-5.13	-5.37	-5.01	-5.11	-	-
UNII 6	6445	99	Low	-5.51	-5.47	-5.51	-4.99	-	-
			Mid	-4.99	-5.30	-4.88	-	6.34	2.62
			High	-4.87	-5.22	-5.08	-5.09	-	-
	6485	107	Low	-5.19	-5.25	-5.12	-5.28	-	-
			Mid	-5.04	-4.99	-5.04	-	5.98	2.78
			High	-5.29	-5.41	-5.13	-5.26	-	-
UNII 7	6565	123	Low	-5.50	-5.38	-5.68	-5.59	-	-
			Mid	-5.53	-5.18	-5.23	-	6.24	2.77
			High	-5.50	-5.46	-5.49	-5.76	-	-
	6685	147	Low	-5.30	-5.45	-5.19	-5.04	-	-
			Mid	-5.27	-5.29	-5.30	-	6.16	2.75
			High	-5.57	-5.67	-5.52	-5.62	-	-
	6845	179	Low	-5.38	-5.53	-5.27	-5.56	-	-
			Mid	-4.95	-4.89	-4.90	-	5.92	2.51
			High	-4.84	-4.92	-5.06	-5.29	-	-
UNII 8	6925	195	Low	-4.62	-5.45	-5.84	-5.95	-	-
			Mid	-4.64	-4.96	-5.40	-	5.64	1.76
			High	-4.48	-5.16	-5.63	-5.67	-	-
	7005	211	Low	-4.49	-5.33	-5.99	-5.65	-	-
			Mid	-4.54	-5.25	-5.99	-	5.46	2.22
			High	-4.41	-5.54	-6.06	-6.04	-	-
	7085	227	Low	-4.71	-5.30	-6.05	-6.17	-	-
			Mid	-4.53	-5.43	-5.96	-	5.65	2.16
			High	-4.59	-5.49	-6.00	-6.32	-	-

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	EIRP Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	-4.88	-4.83	-4.92	-4.96	-4.93	-	-
			Mid	-4.96	-4.92	-4.97	-4.79	-	7.65	7.38
			High	-4.53	-4.46	-4.67	-4.67	-4.57	-	-
	6145	39	Low	-4.80	-4.89	-4.75	-4.39	-4.73	-	-
			Mid	-4.82	-4.76	-4.72	-4.70	-	7.36	6.37
			High	-4.67	-4.71	-4.69	-4.75	-4.61	-	-
	6385	87	Low	-4.84	-4.88	-4.87	-4.59	-5.02	-	-
			Mid	-5.07	-5.17	-5.12	-5.26	-	7.16	6.05
			High	-5.43	-5.14	-4.97	-5.21	-5.10	-	-
UNII 6	6465	103	Low	-4.61	-4.70	-4.70	-4.66	-4.61	-	-
			Mid	-4.52	-4.47	-4.60	-4.69	-	7.73	6.92
			High	-4.60	-4.49	-4.55	-4.53	-4.63	-	-
UNII 7	6625	135	Low	-3.82	-3.85	-4.49	-3.95	-3.98	-	-
			Mid	-3.88	-4.00	-4.11	-4.11	-	7.92	6.85
			High	-3.38	-3.64	-3.80	-3.91	-3.86	-	-
	6705	151	Low	-3.43	-3.58	-4.18	-3.65	-3.64	-	-
			Mid	-3.64	-3.91	-4.10	-4.00	-	7.85	6.94
			High	-3.42	-3.59	-3.74	-3.70	-3.70	-	-
	6785	167	Low	-3.77	-3.85	-4.40	-3.90	-3.67	-	-
			Mid	-3.82	-3.96	-4.02	-4.05	-	7.86	6.87
			High	-3.57	-3.71	-3.85	-3.99	-3.66	-	-
UNII 8	6945	199	Low	-4.83	-5.02	-5.03	-4.71	-5.08	-	-
			Mid	-4.51	-4.88	-5.04	-5.09	-	7.09	5.86
			High	-4.60	-4.86	-5.02	-5.11	-5.10	-	-
	7025	215	Low	-4.95	-5.18	-5.28	-5.43	-5.24	-	-
			Mid	-5.01	-5.13	-5.23	-5.49	-	7.10	5.94
			High	-5.01	-4.88	-5.10	-5.26	-5.25	-	-

10.3.3 Ant1+Ant2

EIRP Power = Duty Factor + Reading Value SUM Power + Directional Peak Ant. Gain

Reading Value SUM Power = Ant1 Reading Value Power + Ant2 Reading Value Power

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	EIRP Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 5	5955	1	Low	1.52	1.51	1.60	-	-
			Mid	1.55	1.65	-	9.75	9.73
			High	1.52	1.51	1.53	-	-
	6175	45	Low	1.86	1.92	1.89	-	-
			Mid	1.93	1.94	-	9.39	9.22
			High	1.70	1.76	1.79	-	-
	6415	93	Low	0.81	0.89	0.87	-	-
			Mid	0.92	0.99	-	9.04	8.96
			High	0.98	1.04	1.00	-	-
UNII 6	6435	97	Low	0.97	1.11	1.11	-	-
			Mid	1.20	1.21	-	9.29	9.09
			High	1.27	1.37	1.37	-	-
	6475	105	Low	1.31	1.35	1.43	-	-
			Mid	1.29	1.48	-	9.47	9.20
			High	1.26	1.44	1.39	-	-
	6515	113	Low	1.10	1.13	1.33	-	-
			Mid	1.18	1.23	-	9.27	9.24
			High	1.13	1.33	1.28	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	EIRP Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 7	6535	117	Low	0.72	0.81	0.72	-	-
			Mid	1.01	0.89	-	9.85	9.79
			High	1.10	1.08	1.07	-	-
	6695	149	Low	1.27	1.53	1.50	-	-
			Mid	1.29	1.63	-	10.07	10.06
			High	1.24	1.48	1.37	-	-
	6855	181	Low	1.66	1.86	1.96	-	-
			Mid	1.93	2.09	-	10.04	9.90
			High	1.95	2.21	2.03	-	-
UNII 8	6895	189	Low	1.78	1.78	1.85	-	-
			Mid	1.87	1.98	-	9.95	9.78
			High	1.72	1.82	1.79	-	-
	6995	209	Low	1.69	1.61	1.68	-	-
			Mid	1.81	1.71	-	9.92	9.90
			High	1.78	1.63	1.77	-	-
	7095	229	Low	1.43	1.37	1.51	-	-
			Mid	1.66	1.62	-	10.00	9.92
			High	1.62	1.63	1.62	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	EIRP Power(dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 5	5965	3	Low	1.05	0.97	1.00	1.08	-	-
			Mid	1.32	1.07	1.12	-	12.10	12.47
			High	1.07	0.92	0.93	0.99	-	-
	6165	43	Low	1.38	1.30	1.28	1.38	-	-
			Mid	1.68	1.55	1.47	-	11.92	12.22
			High	1.33	1.22	1.16	1.28	-	-
	6405	91	Low	0.49	0.37	0.46	0.79	-	-
			Mid	0.80	0.63	0.56	-	12.00	11.94
			High	0.74	0.45	0.58	0.80	-	-
UNII 6	6445	99	Low	0.40	0.51	0.53	0.96	-	-
			Mid	1.00	0.86	1.01	-	12.02	12.29
			High	0.97	0.85	0.89	0.98	-	-
	6485	107	Low	0.76	0.71	0.74	0.82	-	-
			Mid	0.86	0.97	0.82	-	11.97	12.37
			High	0.51	0.60	0.67	0.79	-	-
UNII 7	6565	123	Low	0.32	0.50	0.15	0.32	-	-
			Mid	0.53	0.76	0.46	-	11.91	12.40
			High	0.41	0.46	0.34	0.28	-	-
	6685	147	Low	0.63	0.29	0.52	0.85	-	-
			Mid	0.70	0.64	0.44	-	11.83	12.43
			High	0.33	0.25	0.21	0.44	-	-
	6845	179	Low	0.62	0.68	0.59	0.60	-	-
			Mid	1.03	1.32	0.94	-	11.65	12.26
			High	1.29	1.15	0.87	0.81	-	-
UNII 8	6925	195	Low	1.33	0.98	0.11	0.29	-	-
			Mid	1.56	1.33	0.53	-	11.56	11.77
			High	1.51	1.22	0.29	0.46	-	-
	7005	211	Low	1.60	1.20	-0.10	0.49	-	-
			Mid	1.64	1.30	0.15	-	11.63	12.14
			High	1.66	1.03	0.03	0.32	-	-
	7085	227	Low	1.44	1.20	0.00	0.19	-	-
			Mid	1.59	1.11	0.18	-	11.75	12.18
			High	1.53	1.17	0.05	0.07	-	-

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	EIRP Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 5	5985	7	Low	1.09	1.11	1.00	1.04	1.15	-	-
			Mid	1.16	1.10	1.07	1.27	-	7.65	15.47
			High	1.47	1.57	1.36	1.39	1.52	-	-
	6145	39	Low	1.29	1.09	1.21	1.65	1.42	-	-
			Mid	1.38	1.25	1.29	1.37	-	7.36	14.83
			High	1.31	1.14	1.30	1.26	1.51	-	-
	6385	87	Low	0.95	0.95	0.91	1.09	0.91	-	-
			Mid	0.75	0.64	0.65	0.55	-	7.16	14.52
			High	0.49	0.68	0.68	0.56	0.70	-	-
UNII 6	6465	103	Low	1.04	1.00	1.06	1.00	1.10	-	-
			Mid	1.19	1.16	1.11	0.99	-	7.73	15.10
			High	1.06	1.10	1.05	1.02	0.98	-	-
UNII 7	6625	135	Low	1.83	1.78	1.53	1.57	1.44	-	-
			Mid	1.75	1.67	1.55	1.49	-	7.92	15.15
			High	2.30	2.13	1.90	1.73	1.70	-	-
	6705	151	Low	2.23	2.09	1.81	1.96	1.79	-	-
			Mid	1.92	1.78	1.58	1.58	-	7.85	15.35
			High	2.19	2.05	1.93	1.84	1.59	-	-
	6785	167	Low	1.83	1.76	1.52	1.91	1.96	-	-
			Mid	1.93	1.80	1.77	1.59	-	7.86	15.23
			High	2.09	1.89	1.85	1.50	1.90	-	-
UNII 8	6945	199	Low	1.37	1.31	1.17	1.09	1.08	-	-
			Mid	1.63	1.43	1.21	1.08	-	7.09	14.47
			High	1.73	1.57	1.32	1.16	1.22	-	-
	7025	215	Low	1.47	1.32	1.18	0.97	1.23	-	-
			Mid	1.49	1.37	1.18	1.01	-	7.10	14.65
			High	1.48	1.55	1.32	1.13	1.25	-	-

10.4 POWER SPECTRAL DENSITY

10.4.1 Ant1

EIRP PSD (dBm /MHz) = Duty Factor (dB) + Reading Value PSD (dBm/MHz) + Peak Ant. Gain (dBi)

Band	Frequency	Channel	Mode	Duty Factor	Reading Value PSD	Total PSD	Peak Ant. Gain	EIRP PSD	EIRP Limit
UNII 5	5955	1	HE20	0.120	-8.27	-8.15	0.65	-7.50	-1
	6175	45	HE20	0.120	-8.17	-8.04		-7.39	-1
	6415	93	HE20	0.120	-8.84	-8.72		-8.07	-1
	5965	3	HE40	0.186	-8.47	-8.29		-7.64	-1
	6165	43	HE40	0.186	-8.44	-8.25		-7.60	-1
	6405	91	HE40	0.159	-8.68	-8.52		-7.87	-1
	5985	7	HE80	2.808	-10.88	-8.07		-7.42	-1
	6145	39	HE80	0.186	-8.30	-8.11		-7.46	-1
	6385	87	HE80	0.167	-8.75	-8.59		-7.94	-1
UNII 6	6435	97	HE20	0.120	-8.49	-8.37	0.65	-7.72	-1
	6475	105	HE20	0.120	-8.23	-8.11		-7.46	-1
	6515	113	HE20	0.120	-8.19	-8.07		-7.42	-1
	6445	99	HE40	4.214	-12.49	-8.27		-7.62	-1
	6485	107	HE40	4.214	-12.64	-8.43		-7.78	-1
	6465	103	HE80	2.808	-11.35	-8.54		-7.89	-1
UNII 7	6535	117	HE20	2.312	-10.49	-8.18	0.44	-7.74	-1
	6695	149	HE20	0.158	-8.40	-8.24		-7.80	-1
	6855	181	HE20	2.312	-10.26	-7.95		-7.51	-1
	6565	123	HE40	0.159	-8.55	-8.39		-7.95	-1
	6685	147	HE40	0.159	-8.39	-8.23		-7.79	-1
	6845	179	HE40	0.186	-8.31	-8.12		-7.68	-1
	6625	135	HE80	0.167	-8.51	-8.34		-7.90	-1
	6705	151	HE80	2.808	-10.93	-8.12		-7.68	-1
	6785	167	HE80	0.167	-8.38	-8.22		-7.78	-1

Band	Frequency	Channel	Mode	Duty Factor	Reading Value PSD	Total PSD	Peak Ant. Gain	EIRP PSD	EIRP Limit
UNII 8	6895	189	HE20	2.312	-10.57	-8.26	0.91	-7.35	-1
	6995	209	HE20	2.312	-10.76	-8.45		-7.54	-1
	7095	229	HE20	0.120	-7.96	-7.84		-6.93	-1
	6925	195	HE40	0.186	-8.75	-8.57		-7.66	-1
	7005	211	HE40	0.186	-8.34	-8.15		-7.24	-1
	7085	227	HE40	0.186	-8.42	-8.23		-7.32	-1
	6945	199	HE80	0.186	-8.39	-8.21		-7.30	-1
	7025	215	HE80	2.808	-11.03	-8.22		-7.31	-1

10.4.2 Ant2

EIRP PSD (dBm /MHz) = Duty Factor (dB) + Reading Value PSD (dBm/MHz) + Peak Ant. Gain (dBi)

Band	Frequency	Channel	Mode	Duty Factor	Reading Value PSD	Total PSD	Peak Ant. Gain	EIRP PSD	EIRP Limit
UNII 5	5955	1	HE20	0.120	-8.37	-8.25	1.45	-6.80	-1
	6175	45	HE20	0.120	-8.57	-8.45		-7.00	-1
	6415	93	HE20	0.120	-8.64	-8.52		-7.07	-1
	5965	3	HE40	4.214	-12.68	-8.46		-7.01	-1
	6165	43	HE40	4.214	-12.43	-8.21		-6.76	-1
	6405	91	HE40	4.214	-12.81	-8.59		-7.14	-1
	5985	7	HE80	0.186	-8.64	-8.45		-7.00	-1
	6145	39	HE80	2.808	-11.28	-8.47		-7.02	-1
	6385	87	HE80	0.167	-8.74	-8.57		-7.12	-1
UNII 6	6435	97	HE20	0.120	-8.37	-8.25	1.45	-6.80	-1
	6475	105	HE20	2.312	-10.57	-8.26		-6.81	-1
	6515	113	HE20	2.312	-10.51	-8.20		-6.75	-1
	6445	99	HE40	4.214	-12.36	-8.14		-6.69	-1
	6485	107	HE40	4.214	-12.57	-8.36		-6.91	-1
	6465	103	HE80	0.167	-8.16	-7.99		-6.54	-1
UNII 7	6535	117	HE20	0.158	-8.34	-8.18	1.43	-6.75	-1
	6695	149	HE20	0.158	-8.41	-8.25		-6.82	-1
	6855	181	HE20	0.120	-8.28	-8.16		-6.73	-1
	6565	123	HE40	0.159	-8.14	-7.98		-6.55	-1
	6685	147	HE40	0.159	-8.17	-8.01		-6.58	-1
	6845	179	HE40	0.159	-8.41	-8.25		-6.82	-1
	6625	135	HE80	2.808	-10.82	-8.01		-6.58	-1
	6705	151	HE80	0.167	-8.39	-8.22		-6.79	-1
	6785	167	HE80	0.186	-8.26	-8.08		-6.65	-1

Band	Frequency	Channel	Mode	Duty Factor	Reading Value PSD	Total PSD	Peak Ant. Gain	EIRP PSD	EIRP Limit
UNII 8	6895	189	HE20	0.158	-8.57	-8.41	1.43	-6.98	-1
	6995	209	HE20	0.158	-8.57	-8.42		-6.99	-1
	7095	229	HE20	0.158	-8.51	-8.35		-6.92	-1
	6925	195	HE40	0.159	-8.74	-8.58		-7.15	-1
	7005	211	HE40	0.159	-8.71	-8.55		-7.12	-1
	7085	227	HE40	4.214	-12.48	-8.27		-6.84	-1
	6945	199	HE80	0.167	-9.23	-9.06		-7.63	-1
	7025	215	HE80	0.167	-9.21	-9.04		-7.61	-1

10.4.3 Ant1+Ant2

EIRP PSD (dBm/MHz)
= Duty Factor (dB) + Reading SUM PSD (dBm/MHz) + Directional Peak Ant. Gain (dBi)
Reading Value SUM PSD (dBm/MHz)
= Ant1 Reading Value PSD (dBm/MHz) + Ant2 Reading Value PSD (dBm/MHz)
Directional Peak Ant. Gain (dBi)
= Ant1 Peak Ant. Gain(dBi) + Ant2 Peak Ant. Gain(dBi)

Band	Frequency	Channel	Mode	Duty Factor	Ant1 PSD	Ant2 PSD	Total PSD	Directional Gain	EIRP PSD	EIRP Limit
UNII 5	5955	1	HE20	0.120	-8.27	-8.37	-5.19	4.07	-1.12	-1
	6175	45	HE20	0.120	-8.17	-8.57	-5.23		-1.16	-1
	6415	93	HE20	0.120	-8.84	-8.64	-5.61		-1.54	-1
	5965	3	HE40	0.186	-8.47	-8.81	-5.44		-1.37	-1
	6165	43	HE40	4.214	-12.49	-12.43	-5.23		-1.16	-1
	6405	91	HE40	0.159	-8.68	-8.99	-5.66		-1.59	-1
	5985	7	HE80	0.186	-8.35	-8.64	-5.30		-1.23	-1
	6145	39	HE80	0.186	-8.36	-8.66	-5.31		-1.24	-1
	6385	87	HE80	0.167	-8.75	-8.74	-5.57		-1.50	-1
UNII 6	6435	97	HE20	0.120	-8.49	-8.37	-5.30	4.07	-1.23	-1
	6475	105	HE20	0.120	-8.23	-8.39	-5.18		-1.11	-1
	6515	113	HE20	0.120	-8.19	-8.44	-5.18		-1.11	-1
	6445	99	HE40	4.214	-12.49	-12.36	-5.20		-1.13	-1
	6485	107	HE40	4.214	-12.64	-12.57	-5.38		-1.31	-1
	6465	103	HE80	0.167	-8.81	-8.16	-5.30		-1.23	-1
UNII 7	6535	117	HE20	0.158	-8.38	-8.34	-5.19	3.96	-1.23	-1
	6695	149	HE20	0.158	-8.40	-8.41	-5.23		-1.27	-1
	6855	181	HE20	0.120	-8.20	-8.39	-5.16		-1.20	-1
	6565	123	HE40	0.159	-8.55	-8.14	-5.17		-1.21	-1
	6685	147	HE40	0.159	-8.39	-8.17	-5.11		-1.15	-1
	6845	179	HE40	0.159	-8.34	-8.41	-5.20		-1.24	-1
	6625	135	HE80	0.167	-8.51	-8.25	-5.20		-1.24	-1
	6705	151	HE80	0.167	-8.35	-8.39	-5.19		-1.23	-1
	6785	167	HE80	0.186	-8.48	-8.26	-5.17		-1.21	-1

Band	Frequency	Channel	Mode	Duty Factor	Ant1 PSD	Ant2 PSD	Total PSD	Directional Gain	EIRP PSD	EIRP Limit
UNII 8	6895	189	HE20	0.120	-8.39	-8.79	-5.45	4.18	-1.27	-1
	6995	209	HE20	0.158	-8.74	-8.57	-5.49		-1.31	-1
	7095	229	HE20	0.120	-7.96	-8.96	-5.30		-1.12	-1
	6925	195	HE40	0.159	-8.78	-8.74	-5.59		-1.41	-1
	7005	211	HE40	0.186	-8.34	-9.04	-5.48		-1.30	-1
	7085	227	HE40	4.214	-12.73	-12.48	-5.38		-1.20	-1
	6945	199	HE80	0.186	-8.39	-9.45	-5.69		-1.51	-1
	7025	215	HE80	0.167	-8.43	-9.21	-5.63		-1.45	-1

10.5 STRADDLE CHANNEL(UNII 6, UNII 7)

10.5.1 26dB Bandwidth

10.5.1.1 Ant1

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 6	UNII 7
HE40	6525	115	26 T	0	19.04	-
				9	1.92	19.04
				17	-	18.96
			52 T	37	19.04	-
				41	2.80	19.20
				44	-	19.28
			106 T	53	19.12	-
				55	2.56	19.20
				56	-	19.36
			242 T	61	20.00	19.52
				62	19.76	19.76
			484 T	65	19.84	19.68
			SU	-	19.76	19.60

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 6	UNII 7
HE80	6545	119	26 T	0	19.68	-
				19	-	21.44
				36	-	19.20
			52 T	37	20.16	-
				45	-	22.40
				52	-	19.68
			106 T	53	20.64	-
				57	-	23.36
				60	-	19.84
			242 T	61	19.84	4.32
				63	-	44.16
				64	-	24.48
			484 T	65	20.32	59.68
				66	19.52	60.16
			996 T	67	20.00	60.00
			SU	-	20.00	60.00

10.5.1.2 Ant2

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 6	UNII 7
HE40	6525	115	26 T	0	18.96	-
				9	2.32	19.04
				17	-	18.88
			52 T	37	19.12	-
				41	2.88	19.04
				44	-	19.12
			106 T	53	19.28	-
				55	2.56	19.28
				56	-	19.12
			242 T	61	19.84	19.36
				62	19.52	19.84
			484 T	65	19.76	19.68
			SU	-	19.76	19.68

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 6	UNII 7
HE80	6545	119	26 T	0	19.20	-
				19	-	20.32
				36	-	19.04
			52 T	37	19.20	-
				45	-	21.76
				52	-	19.04
			106 T	53	19.68	-
				57	-	22.88
				60	-	19.52
			242 T	61	20.16	3.52
				63	-	42.88
				64	-	23.36
			484 T	65	20.32	59.20
				66	19.84	60.00
			996 T	67	20.16	60.16
			SU	-	20.32	60.00

10.5.2 Output Power

Straddle Channel UNII 6 / 7 Peak Ant Gain

1. **Ant1 : 0.44 dBi**
2. **Ant2 : 1.12 dBi**

10.5.2.1 Ant1

EIRP PSD = Duty Factor + Reading Value Power + Peak Ant. Gain

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm)	
					UNII 6	UNII 7
HE40	6525	115	26 T	0	-6.57	-
				9	-18.85	-5.20
				17	-	-5.87
			52 T	37	-6.38	-
				41	-23.13	-5.63
				44	-	-5.95
			106 T	53	-6.35	-
				55	-25.64	-5.64
				56	-	-5.98
			242 T	61	-6.30	-30.04
				62	-28.84	-6.13
			484 T	65	1.40	1.50
			SU	-	2.03	1.97

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm)	
					UNII 6	UNII 7
HE80	6545	119	26 T	0	-5.53	-
				19	-	-5.12
				36	-	-4.81
			52 T	37	-5.45	-
				45	-	-4.90
				52	-	-4.68
			106 T	53	-5.39	-
				57	-	-4.78
				60	-	-4.68
			242 T	61	-5.05	-27.59
				63	-	-4.70
				64	-	-4.56
			484 T	65	-8.25	-8.10
				66	-41.32	-4.71
			996 T	67	0.75	7.72
			SU	-	0.61	7.51

10.5.2.2 Ant2

EIRP PSD = Duty Factor + Reading Value Power + Peak Ant. Gain

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm)	
					UNII 6	UNII 7
HE40	6525	115	26 T	0	-6.04	
				9	-20.74	-6.03
				17		-5.63
			52 T	37	-5.87	
				41	-22.60	-5.86
				44		-5.45
			106 T	53	-5.85	
				55	-25.69	-5.77
				56	1.33	-5.42
			242 T	61	-5.88	-29.36
				62	-28.01	-5.73
			484 T	65	2.25	2.49
			SU	-	2.80	2.91

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm)	
					UNII 6	UNII 7
HE80	6545	119	26 T	0	-4.50	-
				19	-	-4.16
				36	-	-3.89
			52 T	37	-4.56	-
				45	-	-4.18
				52	-	-3.88
			106 T	53	-4.48	-
				57	-	-4.08
				60	-	-3.78
			242 T	61	-4.72	-27.97
				63	-	-4.26
				64	-	-4.01
			484 T	65	-7.44	-7.64
				66	-40.17	-4.09
			996 T	67	1.32	8.36
			SU	-	1.20	8.02

10.5.3 Power Spectral Density

Straddle Channel UNII 6 / 7 Peak Ant Gain

1. **Ant1 : 0.44 dBi**
2. **Ant2 : 1.12 dBi**

10.5.3.1 Ant1

EIRP PSD (dBm /MHz) = Duty Factor (dB) + Reading Value PSD (dBm/MHz) + Peak Ant. Gain (dBi)

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm/MHz)	
					UNII 6	UNII 7
HE40	6525	115	26 T	0	-9.47	-51.18
				9	-13.54	-7.69
				17	-52.97	-8.76
			52 T	37	-11.93	-52.22
				41	-17.80	-11.07
				44	-51.37	-11.35
			106 T	53	-14.81	-52.41
				55	-21.18	-13.87
				56	-49.52	-14.38
			242 T	61	-18.01	-25.60
				62	-23.87	-17.94
			484 T	65	-9.26	-8.95
			SU	-	-10.01	-10.44

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm/MHz)	
					UNII 6	UNII 7
HE80	6545	119	26 T	0	-8.32	-49.30
				19	-54.84	-8.09
				36	-56.97	-8.12
			52 T	37	-11.42	-47.88
				45	-55.43	-10.66
				52	-57.81	-10.61
			106 T	53	-14.09	-50.58
				57	-55.92	-13.46
				60	-57.75	-13.19
			242 T	61	-17.14	-25.17
				63	-53.30	-16.70
				64	-57.57	-16.49
			484 T	65	-20.49	-20.23
				66	-47.47	-19.36
			996 T	67	-10.38	-8.03
			SU	-	-10.39	-8.36

10.5.3.2 Ant2

EIRP PSD (dBm /MHz) = Duty Factor (dB) + Reading Value PSD (dBm/MHz) + Peak Ant. Gain (dBi)

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm/MHz)	
					UNII 6	UNII 7
HE40	6525	115	26 T	0	-8.80	-53.59
				9	-15.31	-8.43
				17	-54.15	-8.32
			52 T	37	-11.54	-54.43
				41	-17.93	-11.38
				44	-55.28	-11.07
			106 T	53	-14.35	-55.15
				55	-20.98	-14.02
				56	-54.09	-13.97
			242 T	61	-17.58	-25.23
				62	-24.10	-17.38
			484 T	65	-7.96	-8.04
			SU	-	-7.79	-8.39

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm/MHz)	
					UNII 6	UNII 7
HE80	6545	119	26 T	0	-7.51	-50.07
				19	-53.52	-7.51
				36	-56.68	-7.06
			52 T	37	-10.21	-50.07
				45	-54.35	-9.71
				52	-56.66	-9.65
			106 T	53	-13.29	-49.48
				57	-54.98	-12.81
				60	-57.25	-12.24
			242 T	61	-16.48	-24.74
				63	-55.08	-15.96
				64	-57.21	-15.80
			484 T	65	-19.55	-19.29
				66	-47.14	-18.59
			996 T	67	-9.89	-7.14
			SU	-	-10.61	-7.47

10.6 STRADDLE CHANNEL(UNII 7, UNII 8)

10.6.1 26dB Bandwidth

10.6.1.1 Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 7	UNII 8
HE20	6875	185	26 T	0	11.44	8.96
				4	9.20	8.96
				8	9.20	11.48
			52 T	37	12.12	9.20
				38	9.20	9.00
				40	9.24	11.40
			106 T	53	11.52	9.04
				54	9.32	11.36
			242 T	61	11.12	11.00
			SU	-	11.04	11.28

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 7	UNII 8
HE40	6885	187	26 T	0	9.92	8.96
				9	-	21.28
				17	-	19.12
			52 T	37	10.00	8.96
				41	-	22.24
				44	-	18.96
			106 T	53	9.92	9.12
				55	-	24.00
				56	-	19.04
			242 T	61	9.84	29.36
				62	9.60	29.76
			484 T	65	9.76	29.60
			SU	-	9.92	29.68

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 7	UNII 8
HE80	6865	183	26 T	0	19.36	-
				19	12.16	9.76
				36	-	19.20
			52 T	37	19.84	-
				45	13.44	10.08
				52	-	19.36
			106 T	53	20.80	-
				57	13.92	10.88
				60	-	20.00
			242 T	61	24.48	-
				63	13.76	29.44
				64	-	25.60
			484 T	65	50.24	29.60
				66	49.60	30.08
			996 T	67	50.08	30.08
			SU	-	50.24	30.08

10.6.1.2 Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 7	UNII 8
HE20	6875	185	26 T	0	11.12	8.92
				4	9.12	8.92
				8	9.12	11.00
			52 T	37	11.04	8.96
				38	9.24	8.96
				40	9.28	11.16
			106 T	53	11.04	9.00
				54	9.32	11.32
			242 T	61	10.64	10.56
			SU	-	11.12	10.76

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 7	UNII 8
HE40	6885	187	26 T	0	9.84	9.12
				9	-	21.68
				17	-	18.88
			52 T	37	10.00	9.28
				41	-	22.16
				44	-	18.88
			106 T	53	9.84	9.52
				55	-	21.20
				56	-	18.96
			242 T	61	9.84	29.04
				62	9.44	29.84
			484 T	65	9.84	29.76
			SU	-	9.76	29.68

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 7	UNII 8
HE80	6865	183	26 T	0	19.20	-
				19	11.20	9.28
				36	-	19.20
			52 T	37	19.68	-
				45	11.84	8.96
				52	-	19.04
			106 T	53	19.84	-
				57	11.84	10.08
				60	-	19.68
			242 T	61	23.52	-
				63	12.48	29.44
				64	-	22.40
			484 T	65	50.24	29.60
				66	49.76	30.08
			996 T	67	50.08	30.08
			SU	-	50.24	30.08

10.6.2 Output Power

Straddle Channel UNII 7 / 8 Peak Ant Gain

1. **Ant1 : -2.33 dBi**
2. **Ant2 : 1.43 dBi**

10.6.2.1 Ant1

EIRP PSD = Duty Factor + Reading Value Power + Peak Ant. Gain

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm)	
					UNII 7	UNII 8
HE20	6875	185	26 T	0	-8.03	-27.30
				4	-10.48	-10.71
				8	-28.70	-8.12
			52 T	37	-8.32	-28.10
				38	-8.14	-28.04
				40	-28.14	-7.97
			106 T	53	-8.30	-27.24
				54	-27.71	-7.95
			242 T	61	-2.32	-2.24
			SU	-	-3.07	-2.92

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm)	
					UNII 7	UNII 8
HE40	6885	187	26 T	0	-8.26	-28.03
				9	-	-7.83
				17	-	-8.04
			52 T	37	-8.11	-27.13
				41	-	-7.66
				44	-	-8.18
			106 T	53	-8.02	-26.19
				55	-	-7.74
				56	-	-8.02
			242 T	61	-11.26	-10.54
				62	-44.75	-7.88
			484 T	65	-5.77	1.22
			SU	-	-5.33	1.54

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm)	
					UNII 7	UNII 8
HE80	6865	183	26 T	0	-8.89	-
				19	-8.25	-28.11
				36	-	-7.87
			52 T	37	-8.72	-
				45	-8.36	-27.56
				52	-	-8.24
			106 T	53	-8.74	-8.11
				57	-8.32	-25.49
				60	-	-8.13
			242 T	61	-8.76	-
				63	-12.12	-11.16
				64	-	-8.39
			484 T	65	-8.75	-42.88
				66	-15.08	-9.66
			996 T	67	2.25	-0.52
			SU	-	3.37	0.48

10.6.2.2 Ant2

EIRP PSD = Duty Factor + Reading Value Power + Peak Ant. Gain

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm)	
					UNII 7	UNII 8
HE20	6875	185	26 T	0	-5.14	-24.61
				4	-7.63	-7.79
				8	-24.81	-4.88
			52 T	37	-4.93	-24.43
				38	-4.69	-25.12
				40	-24.07	-4.71
			106 T	53	-4.80	-24.06
				54	-24.29	-4.66
			242 T	61	1.22	1.25
			SU	-	1.07	1.06

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm)	
					UNII 7	UNII 8
HE40	6885	187	26 T	0	-4.52	-25.16
				9	-	-4.29
				17	-	-4.40
			52 T	37	-4.55	-24.16
				41	-	-4.41
				44	-	-4.52
			106 T	53	-4.42	-23.00
				55	-	-4.30
				56	-	-4.42
			242 T	61	-7.73	-7.01
				62	-41.80	-4.57
			484 T	65	-1.53	5.62
			SU	-	-1.52	5.54

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm)	
					UNII 7	UNII 8
HE80	6865	183	26 T	0	-3.99	-
				19	-3.94	-23.39
				36	-	-3.89
			52 T	37	-4.03	-
				45	-3.86	-23.80
				52	-	-3.77
			106 T	53	-3.97	-
				57	-3.80	-20.67
				60	-	-3.74
			242 T	61	-3.89	-
				63	-7.36	-6.47
				64	-	-3.83
			484 T	65	-3.83	-38.44
				66	-10.47	-4.69
			996 T	67	7.55	4.74
			SU	-	7.41	4.67

10.6.3 Power Spectral Density

Straddle Channel UNII 7 / 8 Peak Ant Gain

1. **Ant1 : -2.33 dBi**
2. **Ant2 : 1.43 dBi**

10.6.3.1 Ant1

EIRP PSD (dBm /MHz) = Duty Factor (dB) + Reading Value PSD (dBm/MHz) + Peak Ant. Gain (dBi)

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm/MHz)	
					UNII 7	UNII 8
HE20	6875	185	26 T	0	-10.62	-33.46
				4	-11.31	-11.21
				8	-32.30	-10.55
			52 T	37	-13.88	-32.42
				38	-13.44	-32.80
				40	-33.42	-13.42
			106 T	53	-16.61	-33.72
				54	-32.38	-16.36
			242 T	61	-10.62	-10.53
			SU	-	-10.68	-10.49

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm/MHz)	
					UNII 7	UNII 8
HE40	6885	187	26 T	0	-11.25	-33.20
				9	-53.79	-10.60
				17	-61.01	-10.82
			52 T	37	-13.52	-31.80
				41	-54.08	-13.22
				44	-61.25	-13.82
			106 T	53	-16.18	-32.75
				55	-56.37	-16.10
				56	-61.22	-16.37
			242 T	61	-19.78	-19.15
				62	-49.44	-19.52
			484 T	65	-13.66	-11.09
			SU	-	-13.36	-10.27

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm/MHz)	
					UNII 7	UNII 8
HE80	6865	183	26 T	0	-12.57	-57.69
				19	-11.23	-32.49
				36	-58.63	-11.17
			52 T	37	-15.07	-59.08
				45	-13.83	-36.42
				52	-58.89	-13.46
			106 T	53	-17.72	-60.16
				57	-17.01	-27.79
				60	-59.16	-16.79
			242 T	61	-20.91	-60.61
				63	-20.91	-20.61
				64	-56.77	-19.97
			484 T	65	-23.93	-50.60
				66	-24.47	-23.02
			996 T	67	-12.26	-13.07
			SU	-	-11.88	-12.31

10.6.3.2 Ant2

EIRP PSD (dBm /MHz) = Duty Factor (dB) + Reading Value PSD (dBm/MHz) + Peak Ant. Gain (dBi)

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm/MHz)	
					UNII 7	UNII 8
HE20	6875	185	26 T	0	-7.56	-29.94
				4	-8.39	-8.64
				8	-28.80	-7.32
			52 T	37	-10.16	-30.51
				38	-10.10	-28.90
				40	-30.36	-10.00
			106 T	53	-12.91	-29.54
				54	-30.15	-12.84
			242 T	61	-6.83	-7.04
			SU	-	-6.95	-6.79

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm/MHz)	
					UNII 7	UNII 8
HE40	6885	187	26 T	0	-7.40	-30.21
				9	-51.52	-7.03
				17	-55.89	-7.04
			52 T	37	-9.86	-29.23
				41	-51.65	-9.97
				44	-56.84	-10.09
			106 T	53	-12.60	-27.70
				55	-52.59	-12.61
				56	-57.29	-12.85
			242 T	61	-16.34	-16.15
				62	-43.75	-16.30
			484 T	65	-9.34	-6.90
			SU	-	-8.23	-7.05

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	E.I.R.P (dBm/MHz)	
					UNII 7	UNII 8
HE80	6865	183	26 T	0	-7.41	-54.82
				19	-6.84	-30.36
				36	-53.23	-6.88
			52 T	37	-10.22	-56.06
				45	-9.69	-29.75
				52	-52.70	-9.56
			106 T	53	-13.11	-56.70
				57	-12.78	-23.23
				60	-52.68	-12.22
			242 T	61	-16.09	-57.13
				63	-16.27	-15.68
				64	-52.29	-15.64
			484 T	65	-18.68	-45.18
				66	-19.21	-18.44
			996 T	67	-7.27	-8.25
			SU	-	-6.83	-7.84

10.7 In-Band Emission (Emission Mask)

1. Refer as Annex B Test Plot.

10.8 Contention Based Protocol

- Incumbent Detection Result

Band	BW	Channel No.	Incumbent Freq (MHz)	Incumbent signal Power (dBm)	Number of AWGN (Out of 10 times)	AWGN Detection Probability (%)	Limit Probability (%)
UNII 5	HE20	1	Center	-64.89	10	100	90
	HE40	3	Low edge	-65.25	10	100	90
			Upper edge	-66.59	10	100	90
	HE80	7	Low edge	-66.09	10	100	90
			Center	-66.34	10	100	90
			Upper edge	-66.14	10	100	90
UNII 6	HE20	97	Center	-63.67	10	100	90
	HE40	99	Low edge	-63.83	10	100	90
			Upper edge	-65.32	10	100	90
	HE80	103	Low edge	-65.06	10	100	90
			Center	-64.89	10	100	90
			Upper edge	-65.18	10	100	90
UNII 7	HE20	117	Center	-64.84	10	100	90
	HE40	123	Low edge	-65.22	10	100	90
			Upper edge	-66.47	10	100	90
	HE80	135	Low edge	-65.30	10	100	90
			Center	-65.05	10	100	90
			Upper edge	-65.91	10	100	90
UNII 8	HE20	189	Center	-64.44	10	100	90
	HE40	195	Low edge	-64.57	10	100	90
			Upper edge	-66.27	10	100	90
	HE80	199	Low edge	-66.21	10	100	90
			Center	-66.05	10	100	90
			Upper edge	-65.92	10	100	90

Note

1. KDB 987594 D02, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz. The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission, marker indicates the point at which the AWGN signal is introduced.
2. Modified Detection Threshold Limit.
   - Detection Threshold = -62 dBm + Ant Min gain dBi

Band	Ant1 Min gain	Ant 2 Min gain
UNII 5	0.61	1.38
UNII 6	0.44	1.12
UNII 7	-2.33	1.12
UNII 8	-2.33	1.13

Band	Ant1 Modified Detection Threshold Limit	Ant 2 Modified Detection Threshold Limit
UNII 5	-61.39	-60.62
UNII 6	-61.56	-60.88
UNII 7	-64.33	-60.88
UNII 8	-64.33	-60.87

3. Refer as Annex B Test Plot
4. For this test, AWGN signal increases by 1 dBm from -82 dBm up to -75 dBm where the variation changes to 0.1 dB. Afterwards, reaching at 70 dBm, lastly it is raised by 0.01 dB.

10.9 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

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

Frequency Range : Below 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

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

10.9.1 RADIATED SPURIOUS EMISSIONS (Above 1 GHz)

#Full Tone : HE20_242T, HE40_484T, HE80_996T

Band :	UNII 5
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5955 MHz
Channel No.	1 Ch

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
11910	48.39	0	4.34	V	52.73	73.98	21.25	PK
11910	38.74	0.16	4.34	V	43.24	53.98	10.74	AV
17865	48.03	0	14.44	V	62.47	73.98	11.51	PK
17865	34.98	0.16	14.44	V	49.58	53.98	4.40	AV
11910	49.19	0	4.34	H	53.53	73.98	20.45	PK
11910	40.34	0.16	4.34	H	44.84	53.98	9.14	AV
17865	48.10	0	14.44	H	62.54	73.98	11.44	PK
17865	35.03	0.16	14.44	H	49.63	53.98	4.35	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
12350	46.71	0	6.45	V	53.16	73.98	20.82	PK
12350	37.17	0.16	6.45	V	43.78	53.98	10.20	AV
18525	69.40	0	-10.32	V	59.08	73.98	14.90	PK
18525	56.85	0.16	-10.32	V	46.69	53.98	7.29	AV
12350	47.74	0	6.45	H	54.19	73.98	19.79	PK
12350	39.45	0.16	6.45	H	46.06	53.98	7.92	AV
18525	69.17	0	-10.32	H	58.85	73.98	15.13	PK
18525	56.75	0.16	-10.32	H	46.59	53.98	7.39	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
12830	48.41	0	5.65	V	54.06	68.23	14.17	PK
19245	68.10	0	-10.41	V	57.69	73.98	16.29	PK
19245	56.13	0.16	-10.41	V	45.88	53.98	8.10	AV
12830	49.63	0	5.65	H	55.28	68.23	12.95	PK
19245	68.06	0	-10.41	H	57.65	73.98	16.33	PK
19245	55.66	0.16	-10.41	H	45.41	53.98	8.57	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
12870	46.78	0	6.13	V	52.91	68.23	15.32	PK
19305	66.57	0	-9.88	V	56.69	73.98	17.29	PK
19305	54.52	0.16	-9.88	V	44.80	53.98	9.18	AV
12870	48.56	0	6.13	H	54.69	68.23	13.54	PK
19305	64.95	0	-9.88	H	55.07	73.98	18.91	PK
19305	54.46	0.16	-9.88	H	44.74	53.98	9.24	AV

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

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
12950	46.83	0	6.51	V	53.34	68.23	14.89	PK
19425	64.89	0	-10.30	V	54.59	73.98	19.39	PK
19425	53.25	0.16	-10.30	V	43.11	53.98	10.87	AV
12950	47.36	0	6.51	H	53.87	68.23	14.36	PK
19425	65.94	0	-10.30	H	55.64	73.98	18.34	PK
19425	53.33	0.16	-10.30	H	43.19	53.98	10.79	AV

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

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
13030	47.01	0	6.02	V	53.03	68.23	15.20	PK
19545	65.17	0	-10.39	V	54.78	73.98	19.20	PK
19545	53.12	0.16	-10.39	V	42.89	53.98	11.09	AV
13030	47.94	0	6.02	H	53.96	68.23	14.27	PK
19545	65.60	0	-10.39	H	55.21	73.98	18.77	PK
19545	53.20	0.16	-10.39	H	42.97	53.98	11.01	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
13070	47.00	0	6.26	V	53.26	68.23	14.97	PK
19605	63.54	0	-10.12	V	53.42	73.98	20.56	PK
19605	51.22	0.16	-10.12	V	41.26	53.98	12.72	AV
13070	48.16	0	6.26	H	54.42	68.23	13.81	PK
19605	63.94	0	-10.12	H	53.82	73.98	20.16	PK
19605	51.33	0.16	-10.12	H	41.37	53.98	12.61	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
13390	46.33	0	6.61	V	52.94	73.98	21.04	PK
13390	39.07	0.16	6.61	V	45.84	53.98	8.14	AV
20085	62.16	0	-7.93	V	54.23	73.98	19.75	PK
20085	50.69	0.16	-7.93	V	42.92	53.98	11.06	AV
13390	47.46	0	6.61	H	54.07	73.98	19.91	PK
13390	39.91	0.16	6.61	H	46.68	53.98	7.30	AV
20085	62.52	0	-7.93	H	54.59	73.98	19.39	PK
20085	50.21	0.16	-7.93	H	42.44	53.98	11.54	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
13710	49.10	0	6.99	V	56.09	68.23	12.14	PK
20565	61.99	0	-7.43	V	54.56	73.98	19.42	PK
20565	50.29	0.16	-7.43	V	43.02	53.98	10.96	AV
13710	48.76	0	6.99	H	55.75	68.23	12.48	PK
20565	50.52	0	-7.43	H	43.09	73.98	30.89	PK
20565	50.52	0.16	-7.43	H	43.25	53.98	10.73	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
13790	47.20	0	7.72	V	54.92	68.23	13.31	PK
20685	62.71	0	-8.01	V	54.70	73.98	19.28	PK
20685	50.39	0.16	-8.01	V	42.53	53.98	11.45	AV
13790	48.23	0	7.72	H	55.95	68.23	12.28	PK
20685	63.37	0	-8.01	H	55.36	73.98	18.62	PK
20685	50.45	0.16	-8.01	H	42.59	53.98	11.39	AV

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

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
13990	46.71	0	7.96	V	54.67	68.23	13.56	PK
20985	63.29	0	-6.90	V	56.39	73.98	17.59	PK
20985	51.04	0.16	-6.90	V	44.30	53.98	9.68	AV
13990	47.39	0	7.96	H	55.35	68.23	12.88	PK
20985	63.05	0	-6.90	H	56.15	73.98	17.83	PK
20985	50.99	0.16	-6.90	H	44.25	53.98	9.73	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	7095 MHz
Channel No.	229 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
14190	47.99	0	8.66	V	56.65	68.23	11.58	PK
21285	64.69	0	-5.98	V	58.71	73.98	15.27	PK
21285	52.51	0.16	-5.98	V	46.69	53.98	7.29	AV
14190	48.65	0	8.66	H	57.31	68.23	10.92	PK
21285	64.89	0	-5.98	H	58.91	73.98	15.07	PK
21285	52.61	0.16	-5.98	H	46.79	53.98	7.19	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
11930	47.15	0	5.06	V	52.21	73.98	21.77	PK
11930	37.75	0.16	5.06	V	42.97	53.98	11.01	AV
17895	47.11	0	13.75	V	60.86	73.98	13.12	PK
17895	34.69	0.16	13.75	V	48.60	53.98	5.38	AV
11930	48.57	0	5.06	H	53.63	73.98	20.35	PK
11930	40.06	0.16	5.06	H	45.28	53.98	8.70	AV
17895	47.23	0	13.75	H	60.98	73.98	13.00	PK
17895	34.91	0.16	13.75	H	48.82	53.98	5.16	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
12330	46.48	0	5.39	V	51.87	73.98	22.11	PK
12330	37.88	0.16	5.39	V	43.43	53.98	10.55	AV
18495	68.52	0	-10.32	V	58.20	73.98	15.78	PK
18495	56.68	0.16	-10.32	V	46.52	53.98	7.46	AV
12330	47.91	0	5.39	H	53.30	73.98	20.68	PK
12330	39.73	0.16	5.39	H	45.28	53.98	8.70	AV
18495	68.71	0	-10.32	H	58.39	73.98	15.59	PK
18495	56.88	0.16	-10.32	H	46.72	53.98	7.26	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
12810	47.31	0	5.41	V	52.72	68.23	15.51	PK
19215	68.20	0	-10.24	V	57.96	73.98	16.02	PK
19215	55.72	0.16	-10.24	V	45.64	53.98	8.34	AV
12810	48.06	0	5.41	H	53.47	68.23	14.76	PK
19215	68.21	0	-10.24	H	57.97	73.98	16.01	PK
19215	55.89	0.16	-10.24	H	45.81	53.98	8.17	AV

Band :	UNII 6
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	6445 MHz
Channel No.	99 Ch

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
12890	47.27	0	5.93	V	53.20	68.23	15.03	PK
19335	66.72	0	-10.33	V	56.39	73.98	17.59	PK
19335	54.43	0.16	-10.33	V	44.26	53.98	9.72	AV
12890	48.25	0	5.93	H	54.18	68.23	14.05	PK
19335	67.04	0	-10.33	H	56.71	73.98	17.27	PK
19335	54.79	0.16	-10.33	H	44.62	53.98	9.36	AV

Band :	UNII 6
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	6485 MHz
Channel No.	107 Ch

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
12970	46.22	0	6.66	V	52.88	68.23	15.35	PK
19455	66.29	0	-9.87	V	56.42	73.98	17.56	PK
19455	54.19	0.16	-9.87	V	44.48	53.98	9.50	AV
12970	46.29	0	6.66	H	52.95	68.23	15.28	PK
19455	66.12	0	-9.87	H	56.25	73.98	17.73	PK
19455	53.86	0.16	-9.87	H	44.15	53.98	9.83	AV

Band :	UNII 7
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	6565 MHz
Channel No.	123 Ch

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
13130	46.07	0	7.28	V	53.35	68.23	14.88	PK
19695	63.22	0	-9.78	V	53.44	73.98	20.54	PK
19695	51.60	0.16	-9.78	V	41.98	53.98	12.00	AV
13130	46.69	0	7.28	H	53.97	68.23	14.26	PK
19695	64.06	0	-9.78	H	54.28	73.98	19.70	PK
19695	51.91	0.16	-9.78	H	42.29	53.98	11.69	AV

Band :	UNII 7
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	6685 MHz
Channel No.	147 Ch

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
13370	46.74	0	6.45	V	53.19	73.98	20.79	PK
13370	38.18	0.16	6.45	V	44.78	53.98	9.20	AV
20055	62.14	0	-8.24	V	53.90	73.98	20.08	PK
20055	50.09	0.16	-8.24	V	42.01	53.98	11.97	AV
13370	47.27	0	6.45	H	53.72	73.98	20.26	PK
13370	39.05	0.16	6.45	H	45.65	53.98	8.33	AV
20055	62.46	0	-8.24	H	54.22	73.98	19.76	PK
20055	50.25	0.16	-8.24	H	42.17	53.98	11.81	AV

Band :	UNII 7
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	6845 MHz
Channel No.	179 Ch

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
13690	48.19	0	7.19	V	55.38	68.23	12.85	PK
20535	62.13	0	-8.36	V	53.77	73.98	20.21	PK
20535	50.25	0.16	-8.36	V	42.05	53.98	11.93	AV
13690	48.26	0	7.19	H	55.45	68.23	12.78	PK
20535	62.36	0	-8.36	H	54.00	73.98	19.98	PK
20535	50.19	0.16	-8.36	H	41.99	53.98	11.99	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	6925 MHz
Channel No.	195 Ch

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
13850	47.01	0	7.81	V	54.82	68.23	13.41	PK
20775	62.17	0	-7.93	V	54.24	73.98	19.74	PK
20775	50.01	0.16	-7.93	V	42.24	53.98	11.74	AV
13850	47.64	0	7.81	H	55.45	68.23	12.78	PK
20775	63.82	0	-7.93	H	55.89	73.98	18.09	PK
20775	50.86	0.16	-7.93	H	43.09	53.98	10.89	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	7005 MHz
Channel No.	211 Ch

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
14010	46.74	0	8.21	V	54.95	68.23	13.28	PK
21015	64.78	0	-7.90	V	56.88	73.98	17.10	PK
21015	51.60	0.16	-7.90	V	43.86	53.98	10.12	AV
14010	47.22	0	8.21	H	55.43	68.23	12.80	PK
21015	63.67	0	-7.90	H	55.77	73.98	18.21	PK
21015	51.24	0.16	-7.90	H	43.50	53.98	10.48	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	7085 MHz
Channel No.	227 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
14170	48.27	0	9.73	V	58.00	68.23	10.23	PK
21255	64.86	0	-6.23	V	58.63	73.98	15.35	PK
21255	52.48	0.16	-6.23	V	46.41	53.98	7.57	AV
14170	48.91	0	9.73	H	58.64	68.23	9.59	PK
21255	64.83	0	-6.23	H	58.60	73.98	15.38	PK
21255	52.44	0.16	-6.23	H	46.37	53.98	7.61	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
11970	46.92	0	5.05	V	51.97	73.98	22.01	PK
11970	35.97	0.17	5.05	V	41.18	53.98	12.80	AV
17955	47.09	0	15.21	V	62.30	73.98	11.68	PK
17955	35.28	0.17	15.21	V	50.66	53.98	3.32	AV
11970	46.77	0	5.05	H	51.82	73.98	22.16	PK
11970	38.26	0.17	5.05	H	43.47	53.98	10.51	AV
17955	47.50	0	15.21	H	62.71	73.98	11.27	PK
17955	35.34	0.17	15.21	H	50.72	53.98	3.26	AV

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

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Type
12290	45.15	0	6.26	V	51.41	73.98	22.57	PK
12290	35.56	0.17	6.26	V	41.98	53.98	12.00	AV
18435	68.88	0	-10.41	V	58.47	73.98	15.51	PK
18435	57.28	0.17	-10.41	V	47.04	53.98	6.94	AV
12290	37.97	0	6.26	H	44.23	73.98	29.75	PK
12290	37.97	0.17	6.26	H	44.39	53.98	9.59	AV
18435	69.05	0	-10.41	H	58.64	73.98	15.34	PK
18435	57.33	0.17	-10.41	H	47.09	53.98	6.89	AV

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

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
12770	45.43	0	5.94	V	51.37	68.23	16.86	PK
19155	68.47	0	-10.20	V	58.27	73.98	15.71	PK
19155	56.83	0.17	-10.20	V	46.80	53.98	7.18	AV
12770	47.06	0	5.94	H	53.00	68.23	15.23	PK
19155	68.59	0	-10.20	H	58.39	73.98	15.59	PK
19155	57.09	0.17	-10.20	H	47.06	53.98	6.92	AV

Band :	UNII 6
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	6465 MHz
Channel No.	103 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
12930	47.13	0	7.12	V	54.25	68.23	13.98	PK
19395	66.42	0	-9.80	V	56.62	73.98	17.36	PK
19395	54.70	0.17	-9.80	V	45.06	53.98	8.92	AV
12930	46.29	0	7.12	H	53.41	68.23	14.82	PK
19395	66.65	0	-9.80	H	56.85	73.98	17.13	PK
19395	54.91	0.17	-9.80	H	45.27	53.98	8.71	AV

Band :	UNII 7
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	6625 MHz
Channel No.	135 Ch

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
13250	46.12	0	7.05	V	53.17	73.98	20.81	PK
13250	38.18	0.17	7.05	V	45.40	53.98	8.58	AV
19875	61.98	0	-8.88	V	53.10	73.98	20.88	PK
19875	51.09	0.17	-8.88	V	42.38	53.98	11.60	AV
13250	46.41	0	7.05	H	53.46	73.98	20.52	PK
13250	38.71	0.17	7.05	H	45.93	53.98	8.05	AV
19875	62.72	0	-8.88	H	53.84	73.98	20.14	PK
19875	51.29	0.17	-8.88	H	42.58	53.98	11.40	AV

Band :	UNII 7
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	6705 MHz
Channel No.	151 Ch

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
13410	48.43	0	6.77	V	55.20	73.98	18.78	PK
13410	40.62	0.17	6.77	V	47.55	53.98	6.43	AV
20115	63.17	0	-9.01	V	54.16	73.98	19.82	PK
20115	50.56	0.17	-9.01	V	41.71	53.98	12.27	AV
13410	47.23	0	6.77	H	54.00	73.98	19.98	PK
13410	40.19	0.17	6.77	H	47.12	53.98	6.86	AV
20115	62.97	0	-9.01	H	53.96	73.98	20.02	PK
20115	50.44	0.17	-9.01	H	41.59	53.98	12.39	AV

Band :	UNII 7
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	6785 MHz
Channel No.	167 Ch

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
13570	48.80	0	7.46	V	56.26	68.23	11.97	PK
20355	62.14	0	-7.81	V	54.33	73.98	19.65	PK
20355	50.25	0.17	-7.81	V	42.61	53.98	11.37	AV
13570	48.55	0	7.46	H	56.01	68.23	12.22	PK
20355	50.49	0	-7.81	H	42.68	73.98	31.30	PK
20355	50.49	0.17	-7.81	H	42.85	53.98	11.13	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	6945 MHz
Channel No.	199 Ch

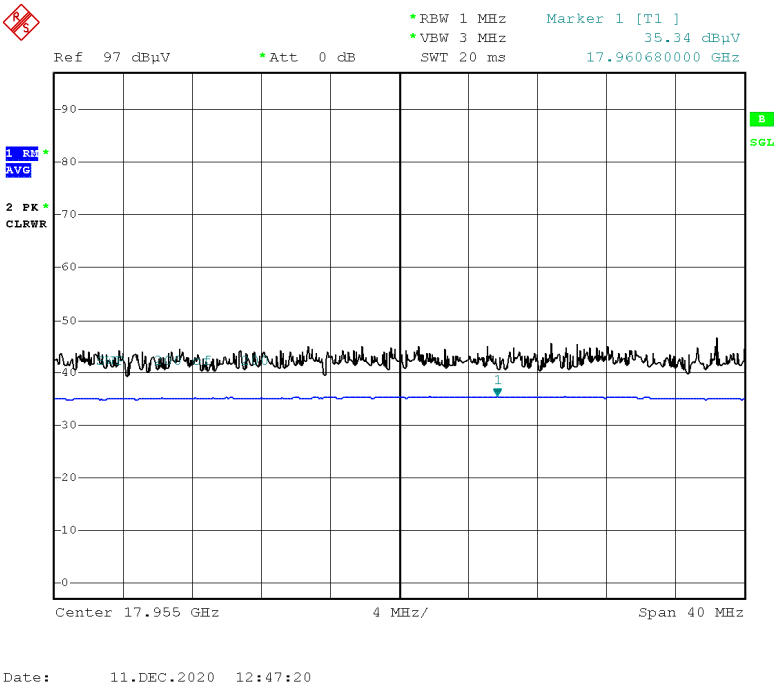
Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
13890	46.10	0	7.89	V	53.99	68.23	14.24	PK
20835	63.53	0	-8.46	V	55.07	73.98	18.91	PK
20835	51.20	0.17	-8.46	V	42.91	53.98	11.07	AV
13890	46.91	0	7.89	H	54.80	68.23	13.43	PK
20835	63.01	0	-8.46	H	54.55	73.98	19.43	PK
20835	51.22	0.17	-8.46	H	42.93	53.98	11.05	AV

Band :	UNII 8
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	7025 MHz
Channel No.	215 Ch

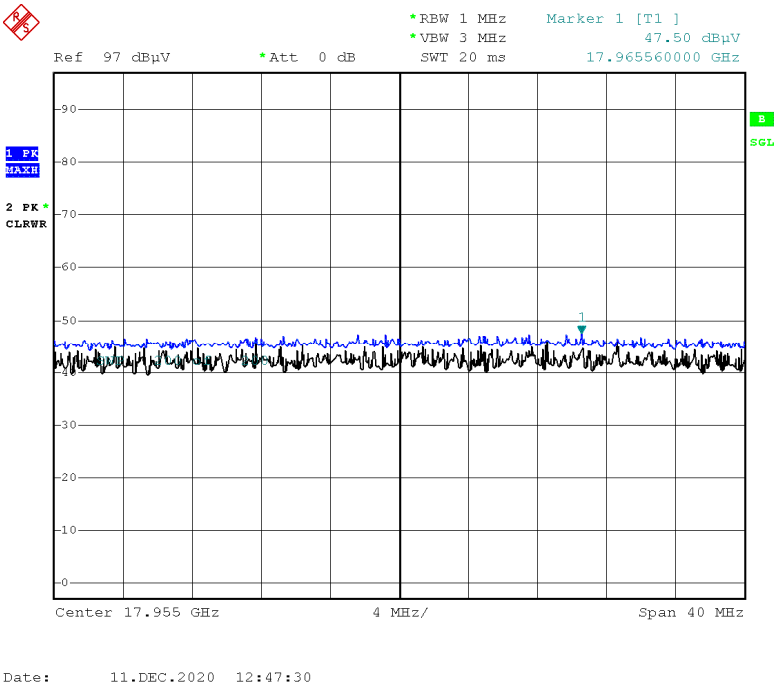
Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
14050	46.76	0	8.16	V	54.92	68.23	13.31	PK
21075	63.15	0	-7.05	V	56.10	73.98	17.88	PK
21075	51.97	0.17	-7.05	V	45.09	53.98	8.89	AV
14050	47.29	0	8.16	H	55.45	68.23	12.78	PK
21075	64.59	0	-7.05	H	57.54	73.98	16.44	PK
21075	52.24	0.17	-7.05	H	45.36	53.98	8.62	AV

▣ Test Plots

Average Reading (802.11ax(HE80), Ch.7 3rd Harmonic, X-H) - 996 T



Peak Reading (802.11ax(HE80), Ch.7 3rd Harmonic, X-H) - 996 T



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9.2 DBS Mode

DTS 802.11b 1 Mbps 2462 MHz Ch.11

Frequency	Reading	AN.+ CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
4924	40.33	3.03	V	43.36	73.98	30.62	PK
4924	28.62	3.03	V	31.65	53.98	22.33	AV
7386	39.45	10.44	V	49.89	73.98	24.09	PK
7386	26.94	10.44	V	37.38	53.98	16.60	AV
4924	40.59	3.03	H	43.62	73.98	30.36	PK
4924	28.55	3.03	H	31.58	53.98	22.40	AV
7386	38.89	10.44	H	49.33	73.98	24.65	PK
7386	26.88	10.44	H	37.32	53.98	16.66	AV

UNII5 802.11ax HE80 Full Tone(996T) 5985 MHz Ch.7

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
11970	45.93	0	5.05	V	50.98	73.98	23.00	PK
11970	33.75	0.17	5.05	V	38.96	53.98	15.02	AV
17955	46.77	0	15.21	V	61.98	73.98	12.00	PK
17955	34.25	0.17	15.21	V	49.63	53.98	4.35	AV
11970	45.55	0	5.05	H	50.60	73.98	23.38	PK
11970	33.49	0.17	5.05	H	38.70	53.98	15.28	AV
17955	46.81	0	15.21	H	62.02	73.98	11.96	PK
17955	34.26	0.17	15.21	H	49.64	53.98	4.34	AV

BT 3-DH5(8DPSK) 2480 MHz Ch.78

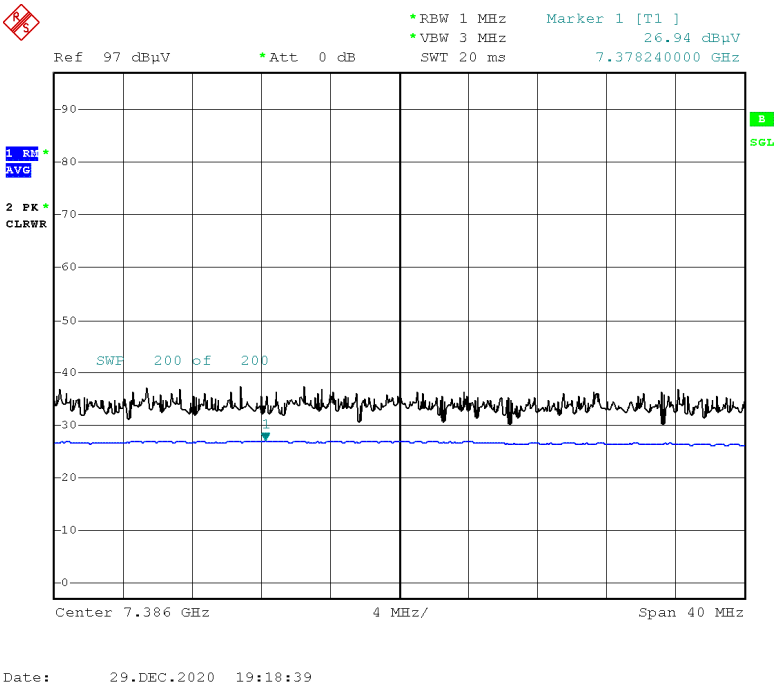
Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
4960	44.32	1.54	V	45.86	73.98	28.12	PK
4960	34.28	1.54	V	35.82	53.98	18.16	AV
7440	38.78	9.82	V	48.6	73.98	25.38	PK
7440	26.89	9.82	V	36.71	53.98	17.27	AV
4960	44.63	1.54	H	46.17	73.98	27.81	PK
4960	34.87	1.54	H	36.41	53.98	17.57	AV
7440	37.98	9.82	H	47.8	73.98	26.18	PK
7440	26.78	9.82	H	36.6	53.98	17.38	AV

UNII5 802.11ax HE80 Full Tone(996T) 5985 MHz Ch.7

Frequency	Reading	Duty Cycle	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBuV]	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
11970	45.47	0	5.05	V	50.52	73.98	23.46	PK
11970	32.68	0.17	5.05	V	37.89	53.98	16.09	AV
17955	46.03	0	15.21	V	61.24	73.98	12.74	PK
17955	34.23	0.17	15.21	V	49.61	53.98	4.37	AV
11970	46.18	0	5.05	H	51.23	73.98	22.75	PK
11970	33.57	0.17	5.05	H	38.78	53.98	15.20	AV
17955	45.85	0	15.21	H	61.06	73.98	12.92	PK
17955	33.98	0.17	15.21	H	49.36	53.98	4.62	AV

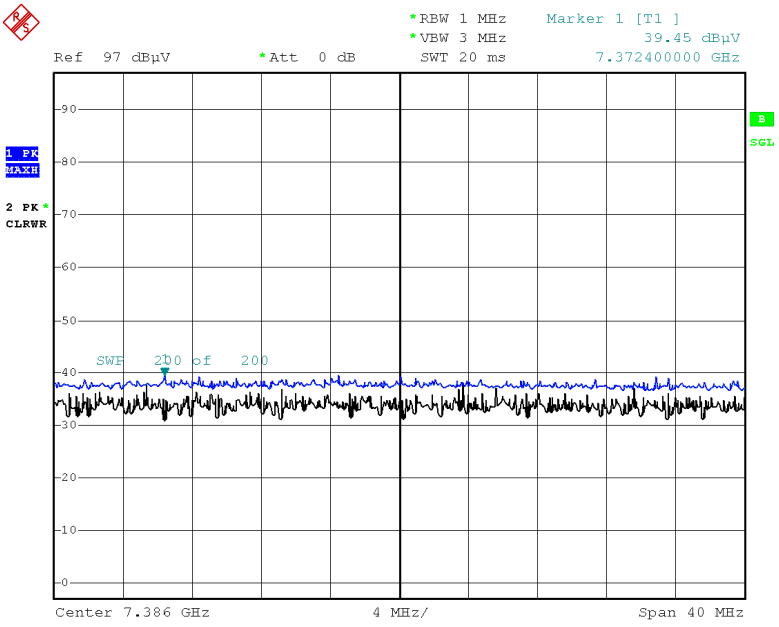
▣ Test Plots(2.4G&6G)

Average Reading (DTS 802.11b, Ch.11 3rd Harmonic, V)



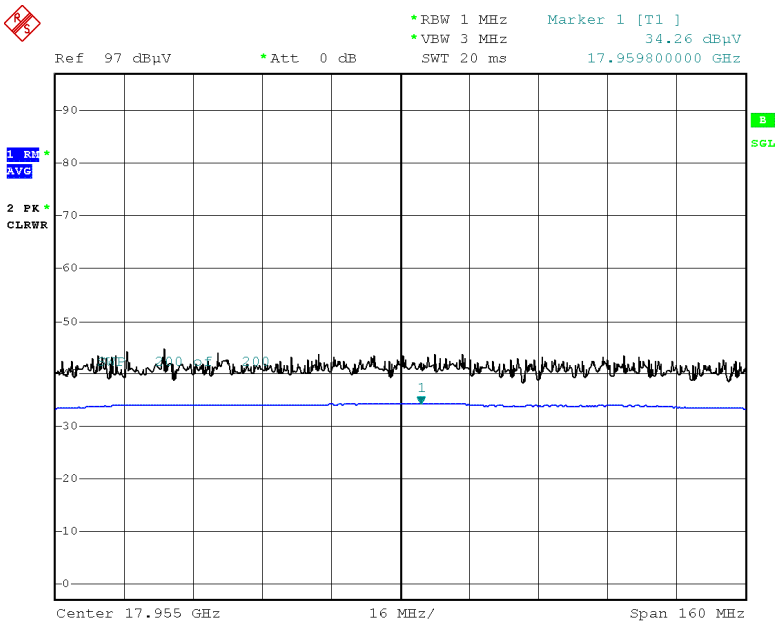
Date: 29.DEC.2020 19:18:39

Peak Reading (DTS 802.11b, Ch.11 3rd Harmonic, V)



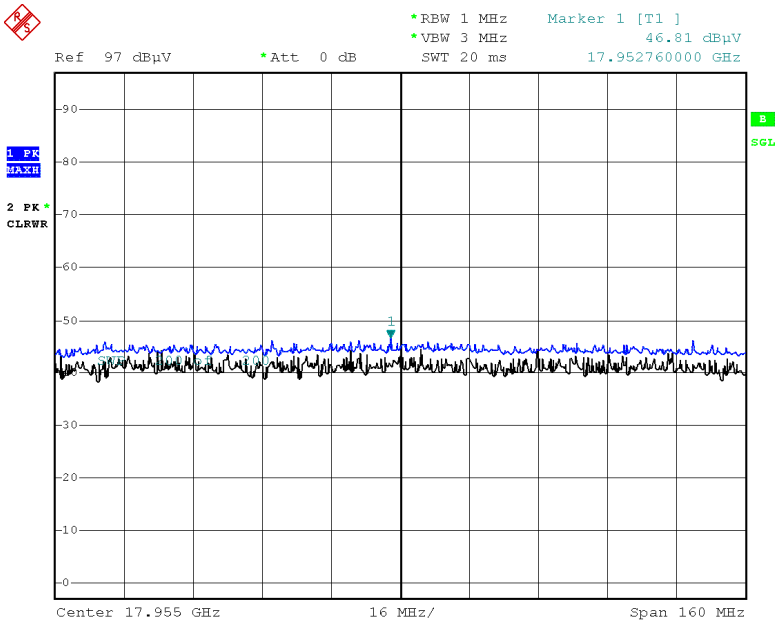
Date: 29.DEC.2020 19:19:12

Average Reading (802.11ax(HE80), Ch.7 3rd Harmonic, X-H)



Date: 29.DEC.2020 14:25:58

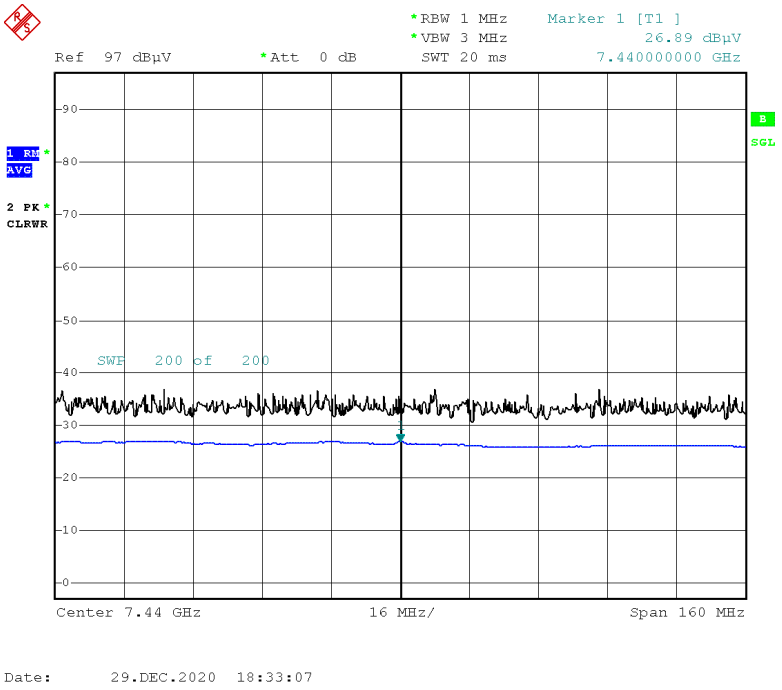
Peak Reading (802.11ax(HE80), Ch.7 3rd Harmonic, X-H)



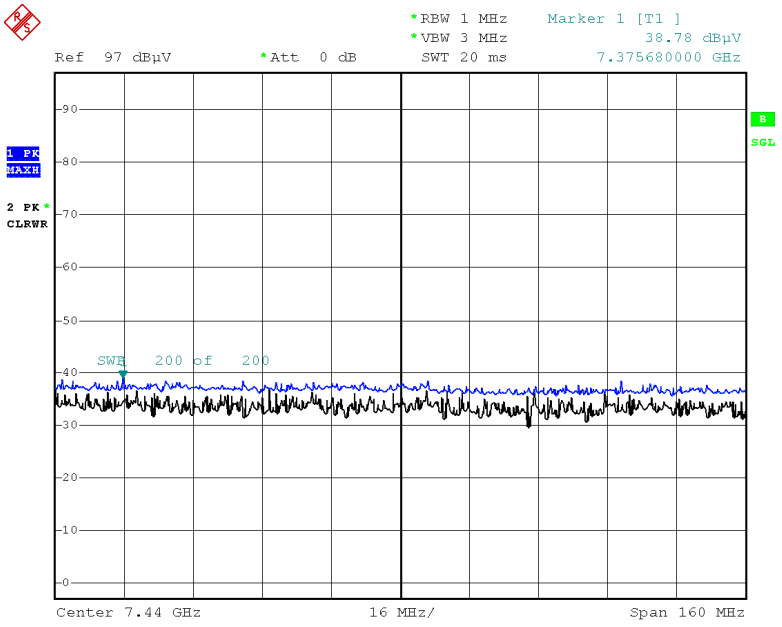
Date: 29.DEC.2020 14:26:18

▣ Test Plots(BT&6G)

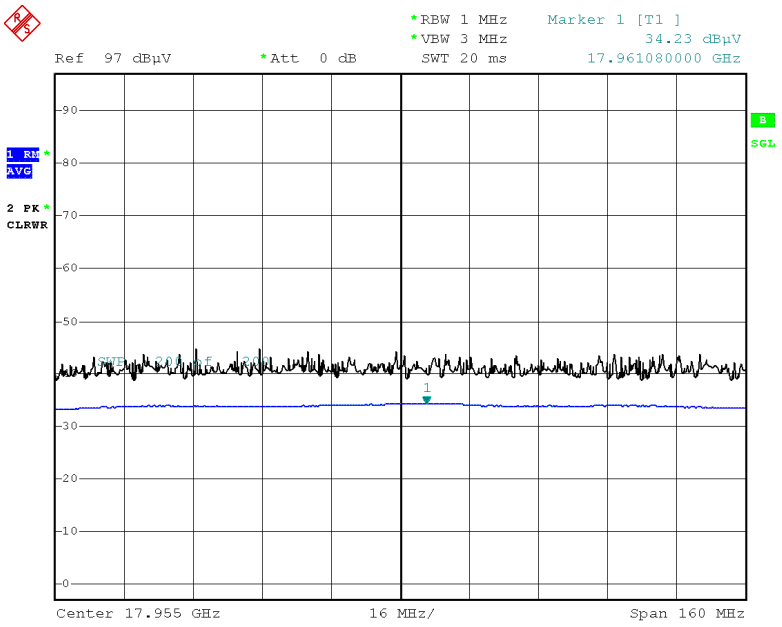
Average Reading (8DPSK, Ch.78 3rd Harmonic, V)



Peak Reading (8DPSK, Ch.78 3rd Harmonic, V)

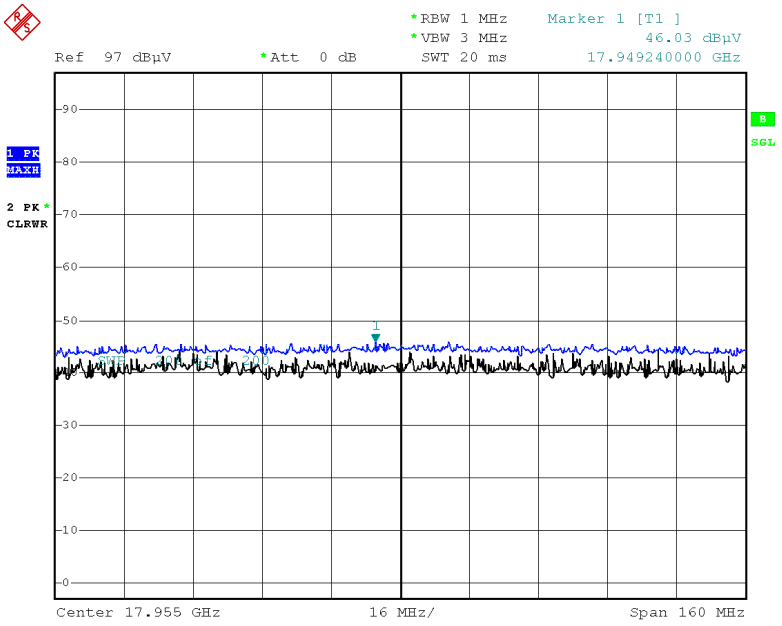


Average Reading (802.11ax(HE80), Ch.7 3rd Harmonic, Z-V)



Date: 29.DEC.2020 16:36:31

Peak Reading (802.11ax(HE80), Ch.7 3rd Harmonic, Z-V)



Date: 29.DEC.2020 16:36:55

10.10 RADIATED RESTRICTED BAND EDGE

10.10.1 802.11ax(HE20)

1. 242 Tone

Band :	UNII 5
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5955 MHz
Channel No.	1 Ch
RU offset.	61

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
5925	41.94	0.00	14.26	H	56.20	68.23	12.03	PK
5925	41.63	0.00	14.26	V	55.89	68.23	12.34	PK

Band :	UNII 8
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	7095 MHz
Channel No.	229 Ch
RU offset.	61

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
7215	39.82	0.00	18.29	H	58.11	68.23	10.12	PK
7250	38.91	0.00	18.56	H	57.47	73.98	16.51	PK
7250	27.45	0.16	18.56	H	46.17	53.98	7.81	AV
7215	39.55	0.00	18.29	V	57.84	68.23	10.39	PK
7250	38.75	0.00	18.56	V	57.31	73.98	16.67	PK
7250	27.43	0.16	18.56	V	46.15	53.98	7.83	AV

2. SU

Band :	UNII 5
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5955 MHz
Channel No.	1 Ch
RU offset.	None

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
5925	40.50	0.00	14.26	H	54.76	68.23	13.47	PK
5925	40.52	0.00	14.26	V	54.78	68.23	13.45	PK

Band :	UNII 8
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	7095 MHz
Channel No.	229 Ch
RU offset.	None

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
7215	40.00	0.00	18.29	H	58.29	68.23	9.94	PK
7250	39.04	0.00	18.56	H	57.60	73.98	16.38	PK
7250	27.38	2.50	18.56	H	48.44	53.98	5.54	AV
7215	39.48	0.00	18.29	V	57.77	68.23	10.46	PK
7250	38.11	0.00	18.56	V	56.67	73.98	17.31	PK
7250	27.21	2.50	18.56	V	48.27	53.98	5.71	AV

10.10.2 802.11ax(HE40)

1. 484 Tone

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

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
5925	44.62	0.00	14.26	H	58.88	68.23	9.35	PK
5925	43.89	0.00	14.26	V	58.15	68.23	10.08	PK

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

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
7215	41.09	0.00	18.29	H	59.38	68.23	8.85	PK
7250	40.07	0.00	18.56	H	58.63	73.98	15.35	PK
7250	28.42	0.16	18.56	H	47.14	53.98	6.84	AV
7215	40.86	0.00	18.29	V	59.15	68.23	9.08	PK
7250	39.44	0.00	18.56	V	58.00	73.98	15.98	PK
7250	28.14	0.16	18.56	V	46.86	53.98	7.12	AV

2. SU

Band :	UNII 5
Operation Mode:	802.11ax(HE40)
Transfer Rate:	MCS0
Operating Frequency	5965 MHz
Channel No.	3 Ch
RU offset.	None

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
5925	44.34	0.00	14.26	H	58.60	68.23	9.63	PK
5925	43.21	0.00	14.26	V	57.47	68.23	10.76	PK

Band :	UNII 8
Operation Mode:	802.11ax(HE40)
Transfer Rate:	MCS0
Operating Frequency	7085 MHz
Channel No.	227 Ch
RU offset.	None

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
7215	40.26	0.00	18.29	H	58.55	68.23	9.68	PK
7250	39.79	0.00	18.56	H	58.35	73.98	15.63	PK
7250	28.38	2.59	18.56	H	49.53	53.98	4.45	AV
7215	39.48	0.00	18.29	V	57.77	68.23	10.46	PK
7250	39.27	0.00	18.56	V	57.83	73.98	16.15	PK
7250	28.24	2.59	18.56	V	49.39	53.98	4.59	AV

10.10.3 802.11ax(HE80)

1. 996 Tone

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

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
5925	45.95	0.00	14.26	H	60.21	68.23	8.02	PK
5925	44.57	0.00	14.26	V	58.83	68.23	9.40	PK

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

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
7215	39.51	0.00	18.29	H	57.80	68.23	10.43	PK
7250	39.92	0.00	18.56	H	58.48	73.98	15.50	PK
7250	27.55	0.17	18.56	H	46.28	53.98	7.70	AV
7215	39.14	0.00	18.29	V	57.43	68.23	10.80	PK
7250	39.28	0.00	18.56	V	57.84	73.98	16.14	PK
7250	27.29	0.17	18.56	V	46.02	53.98	7.96	AV

2. SU

Band :	UNII 5
Operation Mode:	802.11ax(HE80)
Transfer Rate:	MCS0
Operating Frequency	5985 MHz
Channel No.	7 Ch
RU offset.	None

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
5925	44.43	0.00	14.26	H	58.69	68.23	9.54	PK
5925	43.84	0.00	14.26	V	58.10	68.23	10.13	PK

Band :	UNII 8
Operation Mode:	802.11ax(HE80)
Transfer Rate:	MCS0
Operating Frequency	7025 MHz
Channel No.	215 Ch
RU offset.	None

Frequency	Reading	Duty Cycle	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	dBuV	Factor	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	
7215	38.86	0.00	18.29	H	57.15	68.23	11.08	PK
7250	39.32	0.00	18.56	H	57.88	73.98	16.10	PK
7250	27.54	2.81	18.56	H	48.91	53.98	5.07	AV
7215	38.17	0.00	18.29	V	56.46	68.23	11.77	PK
7250	39.07	0.00	18.56	V	57.63	73.98	16.35	PK
7250	27.33	2.81	18.56	V	48.70	53.98	5.28	AV

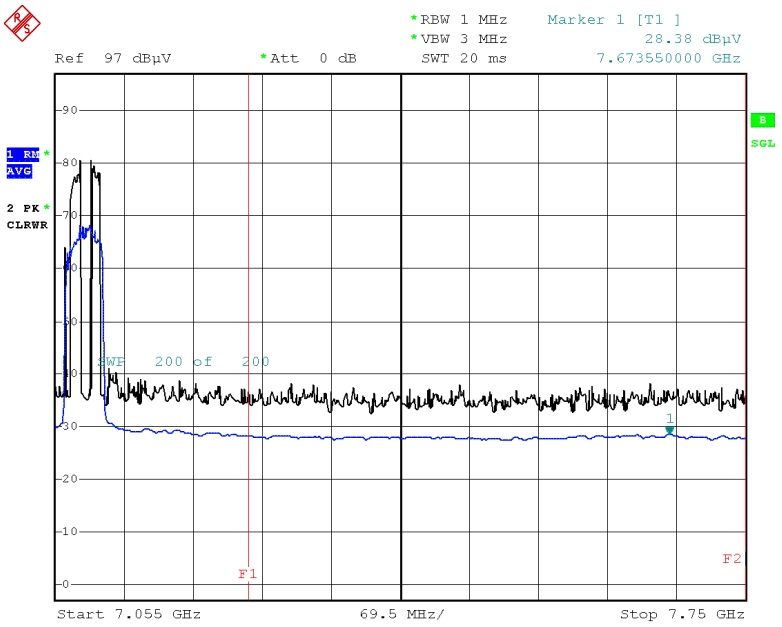
Note:

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

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

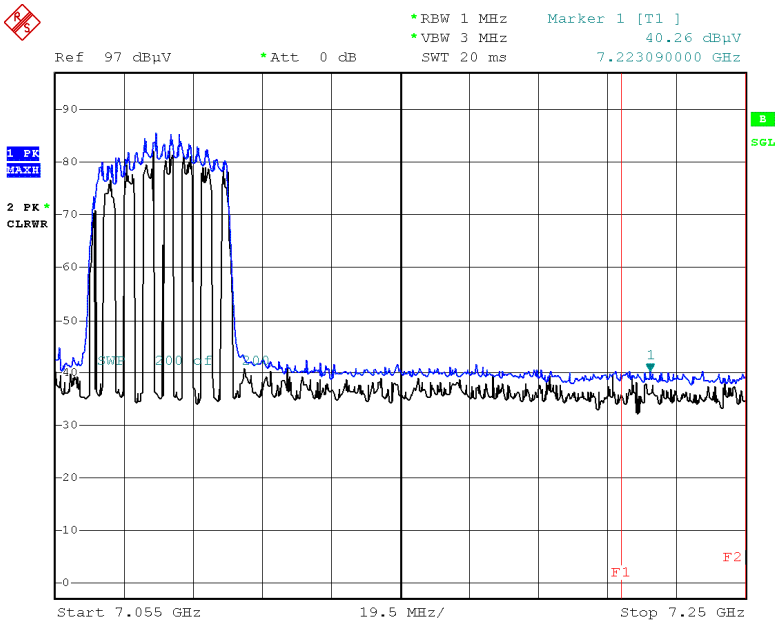
▣ Test Plots

Average Reading (802.11ax(HE40), Ch.227, X-H) - SU



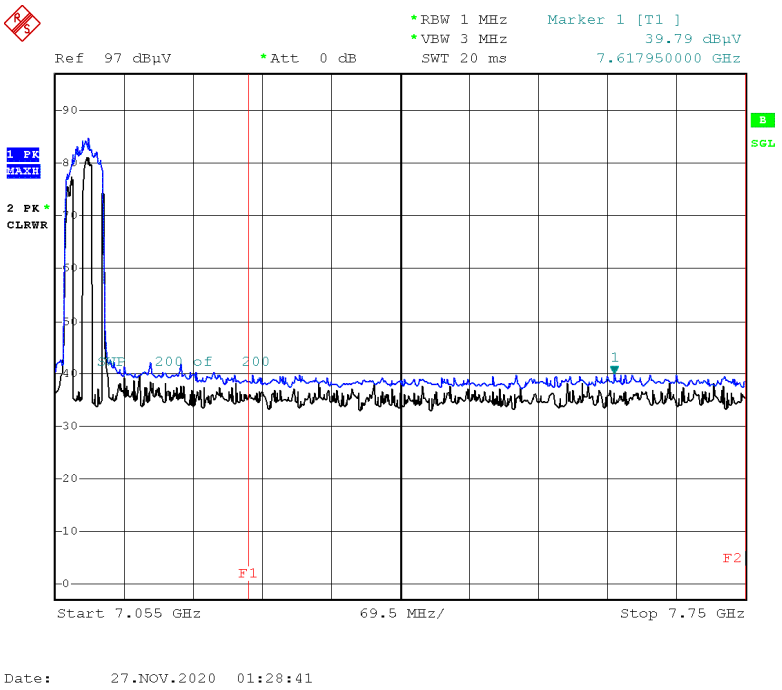
Date: 27.NOV.2020 01:28:12

Peak Reading (802.11ax(HE40), Ch.227, X-H) – SU(1)



Date: 27.NOV.2020 01:27:19

Peak Reading (802.11ax(HE40), Ch.227, X-H) – SU(2)



Note:

Only the worst case plots for Radiated Restricted Band Edge.

10.11 POWERLINE CONDUCTED EMISSIONS

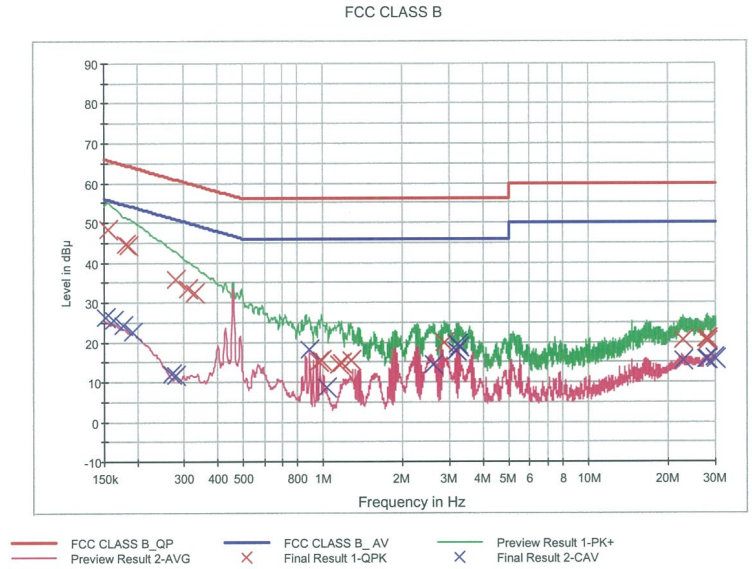
Conducted Emissions (Line 1)

Test 1 / 2

HCT TEST Report

Common Information

EUT:	LGSBWAX12
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN_6G_L1



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	48.3	9.000	On	L1	9.8	17.4	65.8
0.181500	44.7	9.000	On	L1	9.8	19.7	64.4
0.186000	44.2	9.000	On	L1	9.8	20.0	64.2
0.278250	35.8	9.000	On	L1	9.7	25.1	60.9
0.309750	33.4	9.000	On	L1	9.7	26.6	60.0
0.327750	32.2	9.000	On	L1	9.7	27.3	59.5
0.963500	15.2	9.000	On	L1	9.8	40.8	56.0
0.988250	15.5	9.000	On	L1	9.8	40.5	56.0
1.150250	14.3	9.000	On	L1	9.8	41.7	56.0
1.177250	14.8	9.000	On	L1	9.8	41.2	56.0
1.271750	15.4	9.000	On	L1	9.8	40.6	56.0
2.873750	19.8	9.000	On	L1	9.8	36.2	56.0
22.543250	20.4	9.000	On	L1	10.1	39.6	60.0
22.583750	20.6	9.000	On	L1	10.1	39.4	60.0
27.691250	20.7	9.000	On	L1	10.1	39.3	60.0
27.873500	20.7	9.000	On	L1	10.1	39.3	60.0
28.004000	20.3	9.000	On	L1	10.1	39.7	60.0
28.040000	20.3	9.000	On	L1	10.1	39.7	60.0

2020-12-28 오후 9:51:15

Test 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152250	26.3	9.000	On	L1	9.8	29.6	55.9
0.163500	25.6	9.000	On	L1	9.8	29.7	55.3
0.177000	24.1	9.000	On	L1	9.8	30.5	54.6
0.192750	22.6	9.000	On	L1	9.8	31.4	53.9
0.269250	12.0	9.000	On	L1	9.7	39.1	51.1
0.278250	11.6	9.000	On	L1	9.7	39.2	50.9
0.889250	18.0	9.000	On	L1	9.8	28.0	46.0
1.028750	8.6	9.000	On	L1	9.8	37.4	46.0
2.615000	14.6	9.000	On	L1	9.8	31.4	46.0
3.182000	17.8	9.000	On	L1	9.8	28.2	46.0
3.211250	19.4	9.000	On	L1	9.8	26.6	46.0
3.240500	18.7	9.000	On	L1	9.8	27.3	46.0
22.581500	15.4	9.000	On	L1	10.1	34.6	50.0
27.689000	15.6	9.000	On	L1	10.1	34.4	50.0
27.873500	15.9	9.000	On	L1	10.1	34.1	50.0
29.684750	16.0	9.000	On	L1	10.2	34.0	50.0
29.709500	16.0	9.000	On	L1	10.2	34.0	50.0
29.934500	15.8	9.000	On	L1	10.2	34.2	50.0

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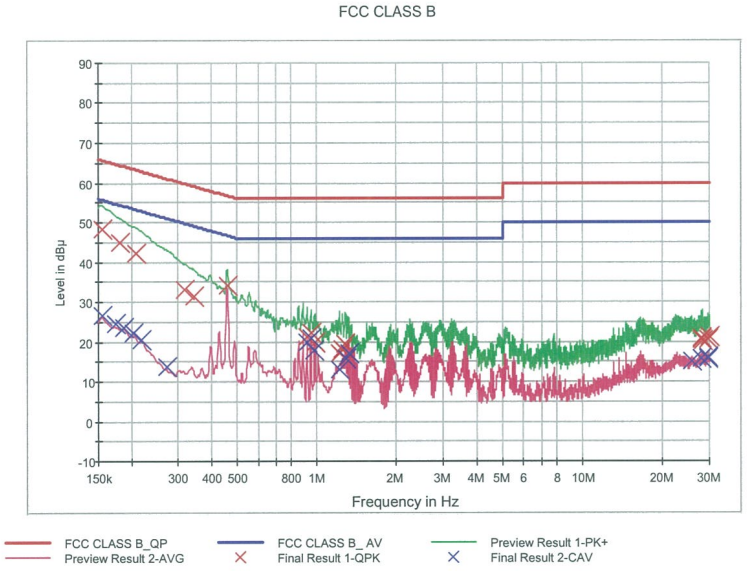
Conducted Emissions (Line 2)

Test 1 / 2

HCT TEST Report

Common Information

EUT:	LGSBWAX12
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN_6G_N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	48.4	9.000	On	N	9.7	17.3	65.8
0.181500	44.8	9.000	On	N	9.7	19.6	64.4
0.208500	42.3	9.000	On	N	9.7	21.0	63.3
0.318750	33.0	9.000	On	N	9.7	26.8	59.7
0.343500	31.4	9.000	On	N	9.7	27.7	59.1
0.460500	34.0	9.000	On	N	9.7	22.7	56.7
0.918500	21.1	9.000	On	N	9.7	34.9	56.0
0.950000	22.2	9.000	On	N	9.7	33.8	56.0
0.981500	19.8	9.000	On	N	9.7	36.2	56.0
1.213250	17.1	9.000	On	N	9.7	38.9	56.0
1.247000	18.0	9.000	On	N	9.7	38.0	56.0
1.280750	19.5	9.000	On	N	9.7	36.5	56.0
27.862250	20.9	9.000	On	N	10.2	39.1	60.0
27.893750	20.9	9.000	On	N	10.2	39.1	60.0
27.927500	20.7	9.000	On	N	10.2	39.3	60.0
28.287500	20.2	9.000	On	N	10.2	39.8	60.0
29.763500	20.6	9.000	On	N	10.2	39.4	60.0
29.894000	21.1	9.000	On	N	10.2	38.9	60.0

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Test 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154500	26.8	9.000	On	N	9.7	29.0	55.8
0.174750	24.6	9.000	On	N	9.7	30.2	54.7
0.188250	23.4	9.000	On	N	9.7	30.7	54.1
0.204000	22.1	9.000	On	N	9.7	31.4	53.4
0.217500	20.5	9.000	On	N	9.7	32.5	52.9
0.271500	13.8	9.000	On	N	9.7	37.3	51.1
0.918500	20.0	9.000	On	N	9.7	26.0	46.0
0.947750	20.9	9.000	On	N	9.7	25.1	46.0
0.979250	17.8	9.000	On	N	9.7	28.2	46.0
1.213250	13.0	9.000	On	N	9.7	33.0	46.0
1.283000	15.6	9.000	On	N	9.7	30.4	46.0
1.314500	17.1	9.000	On	N	9.7	28.9	46.0
25.862000	15.1	9.000	On	N	10.1	34.9	50.0
27.893750	15.8	9.000	On	N	10.2	34.2	50.0
27.927500	15.8	9.000	On	N	10.2	34.2	50.0
29.597000	15.8	9.000	On	N	10.2	34.2	50.0
29.671250	16.0	9.000	On	N	10.2	34.0	50.0
29.759000	15.9	9.000	On	N	10.2	34.1	50.0

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11. LIST OF TEST EQUIPMENT

conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	09/04/2020	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/10/2020	Annual	100584
ESPAC	SU-642 /Temperature Chamber	03/18/2020	Annual	0093008124
Agilent	N9030A / Signal Analyzer	01/11/2021	Annual	MY49431210
Rohde & Schwarz	OSP 120 / Power Measurement Set	07/02/2020	Annual	101231
Agilent	N1911A / Power Meter	04/07/2020	Annual	MY45100523
Keysight	N1921A / Power Sensor	06/08/2020	Annual	MY57820067
Agilent	87300B / Directional Coupler	11/10/2020	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/25/2020	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/12/2020	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	06/26/2020	Annual	07560
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	05/12/2020	Annual	100422
Agilent	11636A / Power Divider	07/24/2020	Annual	9109
Agilent	N5182A / Vector Signal Generator	08/26/2020	Annual	MY50140312

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

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Emco	2090 / Controller	N/A	N/A	060520
Ets	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	05/18/2020	Biennial	1513-175
Schwarzbeck	VULB 9160 / Hybrid Antenna	08/19/2020	Biennial	9160-3368
Schwarzbeck	VULB 9168 / Hybrid Antenna	09/04/2020	Biennial	9168-0895
Schwarzbeck	BBHA 9120D / Horn Antenna	11/18/2019	Biennial	9120D-1191
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	11/29/2019	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/14/2020	Annual	836650/016
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/22/2020	Annual	101068-SZ
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	01/06/2021	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	02/08/2021	Annual	1
CERNEX WEINSCHEL	CBLU1183540B-01/Broadband Bench Top LNA 56-10 / Attenuator(10 dB)	12/23/2020	Annual	N/A
CERNEX Api tech.	CBL06185030 / Broadband Low Noise Amplifier 18B-03 / Attenuator (3 dB)	12/23/2020	Annual	N/A
Wainwright Instruments	WHKX10-2700-3000-18000-40SS / High Pass Filter	12/23/2020	Annual	N/A
Wainwright Instruments	WHKX8-6090-7000-18000-40SS / High Pass Filter	12/23/2020	Annual	N/A
T&M SYSTEM	COAXIAL ATTENUATOR / Thru	12/23/2020	Annual	N/A
CERNEX	CBL18265035 / Power Amplifier	12/04/2020	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	03/23/2020	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/18/2020	Annual	3000C000276

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-2101-FC015-P