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

FCC UNII REPORT

Certification

Applicant Name:
SAMSUNG Electronics Co., Ltd.

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

Date of Issue:
July 15, 2020

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

Report No.: HCT-RF-2007-FC012

FCC ID:	**A3LSMT878U**
APPLICANT:	**SAMSUNG Electronics Co., Ltd.**
Model:	SM-T878U
EUT Type:	Tablet
Modulation type	OFDMA
FCC Classification:	Unlicensed National Information Infrastructure(NII)
FCC Rule Part(s):	Part 15.407

Engineering Statement:

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

REVIEWED BY

Report prepared by : Jeong Ho Kim
Engineer of Telecommunication Testing Center

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

This report only responds to the tested sample and may not be reproduced, except in full, without written approval of the HCT Co., Ltd.

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

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

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-2007-FC012	July 15, 2020	- First Approval Report

Table of Contents

1. GENERAL INFORMATION

EUT DESCRIPTION

Model	SM-T878U	
Additional Model	-	
EUT Type	Tablet	
Power Supply	DC 3.85 V	
Battery Information	Model: EB-BT875ABY Type: Li-ion Battery	
Travel Adapter Information	Model : EP-TA200 Manufacture: RFTech	
Data Cable Information	Model : EP-DT725BBE Manufacture: KSDCO	
Ear-jack Information	Model : GHSS028-K8 Manufacture: BUJEON	
S-PEN Information	Model : EJ-PT870 Manufacture: WACOM	
Keyboard Information	Model : EF-DT870 Manufacture: SAMSUNG	
Modulation Type	OFDMA	
Frequency Range (MHz)	U-NII-1	20MHz BW : 5180 - 5240 40MHz BW : 5190 - 5230 80MHz BW : 5210
	U-NII-2A	20MHz BW : 5260 - 5320 40MHz BW : 5270 - 5310 80MHz BW : 5290
	U-NII-2C	20MHz BW : 5500 - 5720 40MHz BW : 5510 - 5710 80MHz BW : 5530 – 5690
	U-NII-3	20MHz BW : 5745 - 5825 40MHz BW : 5755 - 5795 80MHz BW : 5775
Antenna Specification	Antenna type: Metal Peak Gain : Ant.1: UNII 1: 0.80 dBi / UNII 2A: -0.30 dBi UNII 2C: -3.10 dBi / UNII 3: -2.10 dBi Ant.2: UNII 1: -5.60 dBi / UNII 2A: -5.30 dBi UNII 2C: -5.90 dBi / UNII 3: -5.50 dBi	
Straddle channel	Supported	
TDWR Band	Supported	
Dynamic Frequency Selection	Slave without radar detection	
Date(s) of Tests	May 28, 2020 ~ July 01, 2020	

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

	2.4GHz WIFI		5GHz WIFI		Test case
	Ant1	Ant2	Ant1	Ant2	
2.4 GHz + 5 GHz RSDB Only	B			C	O
		B	C		O
	B		C		-
		B		C	-
2.4 GHz + 5 GHz RSDB & MIMO	B	B	C		-
	B	B		C	-
	B		C	C	-
		B	C	C	-
2.4 GHz + 5 GHz RSDB MIMO	B	B	C	C	O

Not RSDB	2.4G/5GHz WIFI		2.4GHz Bluetooth		Test case
	Ant1	Ant2	Ant1	Ant2	
Bluetooth + 5 GHz	C	B/C	A		-
	C	C	A		-
	C	C		A	O

3. Directional Gain Calculation

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

Directional gain =

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

Band	Ant Gain (dBi)		N_{ANT}/ N_{SS}	Directional Gain (dBi)
UNII 1	ANT.1	0.8	2 / 2	1.19
	ANT.2	-5.6		
UNII 2A	ANT.1	-0.3	2 / 2	0.57
	ANT.2	-5.3		
UNII 2C	ANT.1	-3.1	2 / 2	-1.38
	ANT.2	-5.9		
UNII 3	ANT.1	-2.1	2 / 2	-0.62
	ANT.2	-5.5		

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)
UNII1	802.11ax (HE20)	10.81	0.012	9.82	0.010	13.33	0.022
	802.11ax (HE40)	10.47	0.011	9.40	0.009	12.83	0.019
	802.11ax (HE80)	10.94	0.012	9.40	0.009	13.25	0.021
UNII2A	802.11ax (HE20)	10.80	0.012	9.77	0.009	13.31	0.021
	802.11ax (HE40)	10.81	0.012	9.47	0.009	13.08	0.020
	802.11ax (HE80)	10.25	0.011	9.89	0.010	13.07	0.020
UNII2C	802.11ax (HE20)	10.77	0.012	11.00	0.013	13.90	0.025
	802.11ax (HE40)	10.96	0.012	10.58	0.011	13.52	0.023
	802.11ax (HE80)	10.62	0.012	10.70	0.012	13.59	0.023
UNII3	802.11ax (HE20)	10.96	0.012	10.25	0.011	13.59	0.023
	802.11ax (HE40)	10.86	0.012	9.96	0.010	13.21	0.021
	802.11ax (HE80)	10.71	0.012	10.13	0.010	13.44	0.022

3. TEST METHODOLOGY

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

EUT CONFIGURATION

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

EUT EXERCISE

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

GENERAL TEST PROCEDURES

Conducted Emissions

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

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 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 FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22.
Detailed description of test facility was submitted to the Commission and accepted dated April 02, 2018 (Registration Number: KR0032).

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.
Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.
All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203, §15.407:

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

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

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

7. MEASUREMENT UNCERTAINTY

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

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

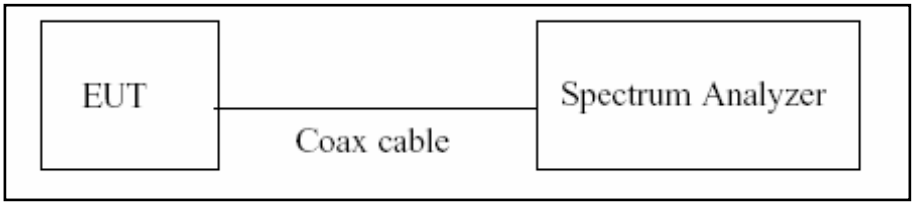
The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (±dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	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.

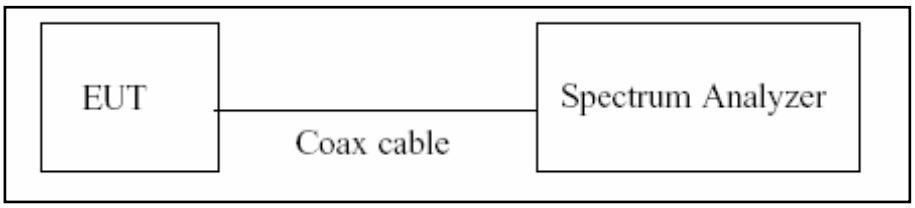
1. RBW = 8 MHz (the largest availble value)
2. VBW = 8 MHz (≥ RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Measure T_{total} and T_{on}
8. Calculate Duty Cycle = T_{on}/ T_{total} and Duty Cycle Factor = 10log(1/Duty Cycle)

8.2. 6dB Bandwidth & 26dB Bandwidth

Limit

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Configuration



Test Procedure(26dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer.

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

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

Test Procedure (6dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer.

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

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

Note:

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

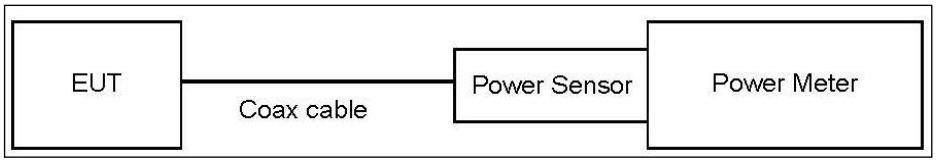
8.3. Output Power Measurement

Limit

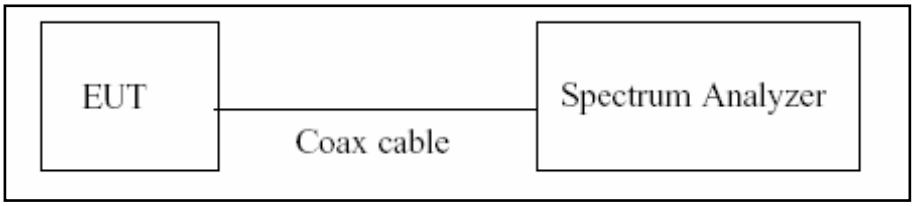
Band	Limit
UNII 1	- Master : Not exceed 1 W(=30dBm) - Slave : Not exceed 250 mW(=23.98 dBm)
UNII 2A, 2C	Not exceed the lesser of 250 mW or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)
UNII 3	Not exceed 1 W(=30dBm)

Test Configuration

Power Meter



Spectrum Analyzer(Only Straddle Channel)



Test Procedure(Power Meter)

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

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

Test Procedure(Spectrum Analyzer)

The transmitter output is connected to the Spectrum Analyzer.

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

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

1. Measure the duty cycle.
2. Set span to encompass the 26 dB EBW of the signal.
3. RBW = 1 MHz.
4. VBW ≥ 3 MHz.
5. Number of points in sweep ≥ 2 x span/RBW.
6. Sweep time = auto.
7. Detector = RMS.
8. Do not use sweep triggering. Allow the sweep to “free run”.
9. Trace average at least 100 traces in power averaging(RMS) mode
10. Integrated bandwidth = OBW
11. Add 10log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Sample Calculation

Total Power(dBm) = 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 1	20.60
UNII 2A	20.60
UNII 2C	20.60
UNII 3	20.60

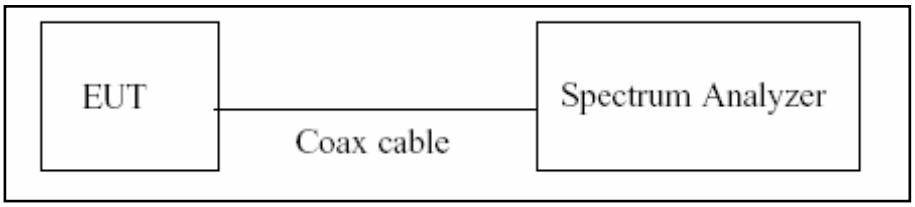
(Actual value of loss for the attenuator and cable combination)

8.4. Power Spectral Density

Limit

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

Test Configuration



Test Procedure

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

1. Set span to encompass the entire emission bandwidth(EBW) of the signal.
2. RBW = 1 MHz(510 kHz for UNII 3)
3. VBW ≥ 3 MHz
4. Number of points in sweep ≥ 2 x span/RBW.
5. Sweep time = auto.
6. Detector = RMS(i.e., power averaging), if available. Otherwise, use sample detector mode.
7. Do not use sweep triggering. Allow the sweep to “free run”.
8. Trace average at least 100 traces in power averaging(RMS) mode
9. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.
10. If Method SA-2 was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum.

Sample Calculation

Total PSD(dBm) = 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 1	20.60
UNII 2A	20.60
UNII 2C	20.60
UNII 3	20.60

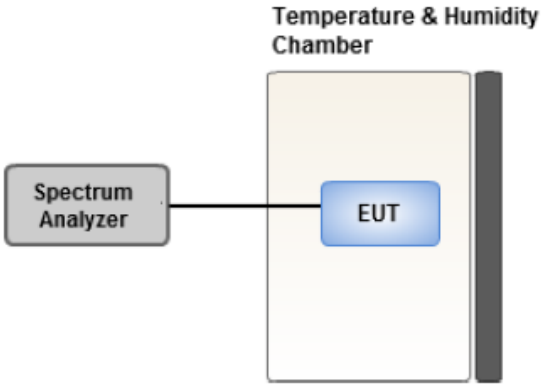
(Actual value of loss for the attenuator and cable combination)

8.5. Frequency Stability

Limit

Maintained within the band

Test Configuration



Test Procedure

1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -30 ℃ and 50 ℃.
2. The temperature was incremented by 10 ℃ intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.
3. The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battety operating end point which shall be specified by the manufacturer.
4. While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.

8.6. AC Power line Conducted Emissions

Limit

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

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

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

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

Test Configuration

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

Test Procedure

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

Sample Calculation

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

8.7. Radiated Test

Limit

1. UNII 1: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of −27 dBm/MHz.

2. UNII 2A, 2C: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.

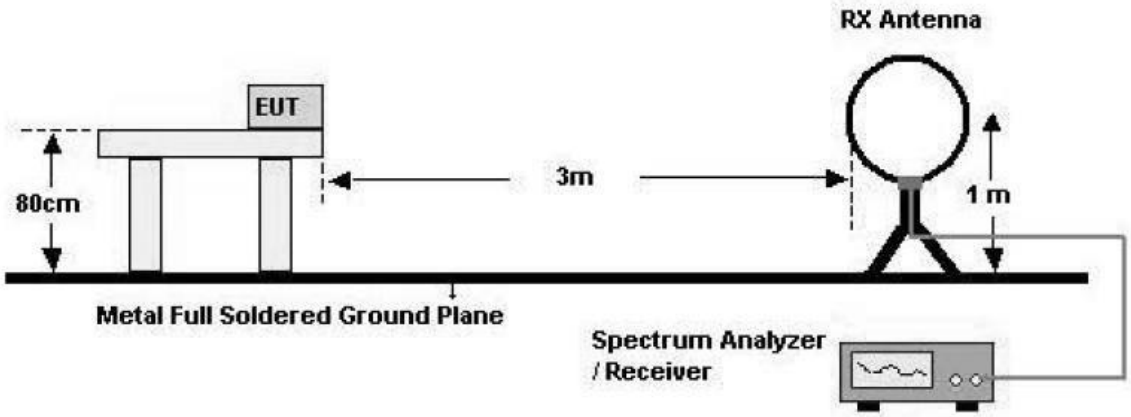
3. UNII 3: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

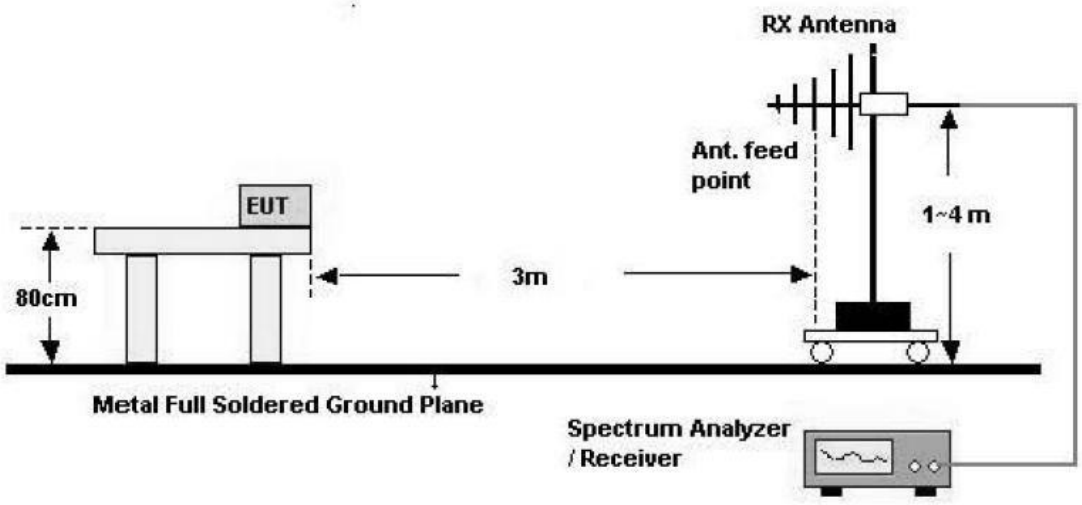
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

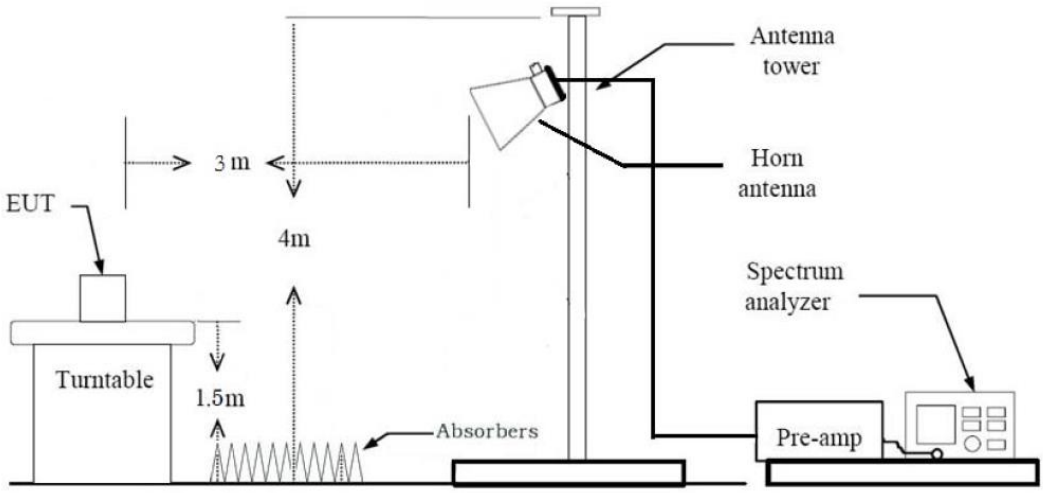
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



Test Procedure of Radiated spurious emissions(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.d in KDB 789033 v02r01):

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

9. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor
10. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency
11. Distance extrapolation factor = 20log (test distance / specific distance) (dB)
12. Total = 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.d in KDB 789033 v02r01):

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

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

The actual setting value of VBW

Mode	Tone	Worst Data rate (Mbps)	Duty Cycle	Duty Cycle Factor (dB)	VBW (1/T) (kHz)
802.11ax (HE20)	26	MCS 0	0.996	0.02	0.197
	52	MCS 0	0.996	0.02	0.197
	106	MCS 0	0.996	0.02	0.210
	242	MCS 0	0.996	0.02	0.210
	SU	MCS 0	0.997	0.01	0.184
802.11ax (HE40)	26	MCS 0	0.996	0.02	0.197
	52	MCS 0	0.996	0.02	0.197
	106	MCS 0	0.996	0.02	0.210
	242	MCS 0	0.996	0.02	0.214
	484	MCS 0	0.996	0.02	0.214
	SU	MCS 0	0.997	0.02	0.184
802.11ax (HE80)	26	MCS 0	0.996	0.02	0.197
	52	MCS 0	0.996	0.02	0.197
	106	MCS 0	0.996	0.02	0.210
	242	MCS 0	0.996	0.02	0.214
	484	MCS 0	0.997	0.01	0.214
	996	MCS 0	0.996	0.02	0.211
	SU	MCS 0	0.997	0.01	0.184

Note: The actual setting value of VBW.
- [HE20] : 1 kHz
- [HE40] : 26, 52. 106, 242T : 1 kHz , 484T, SU : 1 kHz
- [HE80] : 26, 52, 106, 242T : 1 kHz, 484T : 1 kHz, 996T, SU : 1 kHz

8.8. Test RU offset for Tones

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

8.8. Worst case configuration and mode

Conducted test

1. All data rate of operation were investigated and the worst case results are reported.
   - HE20: MCS1 (26Tone)
     MCS7 (52Tone)
     MCS5 (106Tone)
     MCS4 (242Tone, SU)
   - HE40: MCS1 (26Tone)
     MCS7 (52Tone)
     MCS5 (106Tone)
     MCS4 (242Tone, 484Tone, SU)
   - HE80: MCS1 (26Tone)
     MCS7 (52Tone)
     MCS5 (106Tone)
     MCS4 (242Tone, 484Tone)
     MCS3 (996Tone, 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 only 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, Stand alone + External accessories(Earphone, etc)
   - Worstcase : Stand alone
3. EUT Axis
   - Radiated Spurious Emissions : Y,Z
   - Radiated Restricted Band Edge : Z
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 (Mid) [HE 40] 65 (Mid) [HE 80] 67 (Mid)
	[HE 20] Worst case : 26T [HE 40] Worst case : 26T [HE 80] Worst case : 26T	[HE 20] 4 (Mid) [HE 40] 9 (Mid) [HE 80] 18 (Mid)
Bandedge	[HE 20] Worst case(Highest Power) : 242T [HE 40] Worst case(Highest Power) : 484T [HE 80] Worst case(Highest Power) : 996T	[HE20] Low Edge: 61 High Edge: 61 [HE40] Low Edge: 65 High Edge: 65 [HE80] Low Edge: 67 High Edge: 67
	[HE 20] Worst case : 26T [HE 40] Worst case : 26T [HE 80] Worst case : 26T	[HE20] Low Edge: 0 High Edge: 8 [HE40] Low Edge: 0 High Edge: 17 [HE80] Low Edge: 0 High Edge: 36

Radiated test(DBS)

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

RSDB	2.4GHz WIFI		5GHz WIFI		Test case
	Ant1	Ant2	Ant1	Ant2	
2.4 GHz + 5 GHz RSDB Only	B			C	Case1
		B	C		Case2
	B		C		-
		B		C	-
2.4 GHz + 5 GHz RSDB & MIMO	B	B	C		-
	B	B		C	-
	B		C	C	-
		B	C	C	-
2.4 GHz + 5 GHz RSDB MIMO	B	B	C	C	Case3

Not RSDB	2.4G/5GHz WIFI		2.4GHz Bluetooth		Test case
	Ant1	Ant2	Ant1	Ant2	
Bluetooth + 5 GHz	C	B/C	A		-
	C	C	A		-
	C	C		A	Case4

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

(Worst case: The lowest margin condition the channels and modes were selected for test.)

Test case	Description	2.4 GHz Emission	5 GHz Emission
1	Antenna	Ant 1	Ant 2
	Channel	11	48
	Data Rate	1Mbps	6Mbps
	Mode	802.11b	802.11a

Test case	Description	2.4 GHz Emission	5 GHz Emission
2	Antenna	Ant 2	Ant 1
	Channel	11	157
	Data Rate	1Mbps	6Mbps
	Mode	802.11b	802.11a

Test case	Description	2.4 GHz Emission	5 GHz Emission
3-1	Antenna	Ant 1 + Ant 2	Ant 1 + Ant 2
	Channel	6	48
	Data Rate	6Mbps	6Mbps
	Mode	802.11g	802.11a
3-2	Antenna	Ant 1 + Ant 2	Ant 1 + Ant 2
	Channel	1	100
	Data Rate	MCS0	MCS0
	Mode	802.11ax(HE20)(26 Tone) RU off : 4	802.11ax(HE20)(26 Tone) RU off : 4

Test case	Description	Bluetooth Emission	5 GHz Emission
4	Antenna	Ant 2	Ant 1 + Ant 2
	Channel	0	165
	Data Rate	339 Bytes	6Mbps
	Mode	GFSK : DH5	802.11a

AC Power line Conducted Emissions

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

- Mode : Stand alone + External accessories(Earphone, etc)+Travel Adapter, Stand alone + Travel Adapter
- Worstcase : Stand alone + Travel Adapter

9. SUMMARY OF TEST RESULTS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
26dB Bandwidth	§15.407 (for Power Measurement)	N/A	Conducted	PASS
6 dB Bandwidth	§15.407(e)	>500 kHz (5725-5850 MHz)		PASS
Maximum Conducted Output Power	§15.407(a)(1)	< 250 mW (5150-5250 MHz) < 250 mW or 11+10log$_{10}$ (BW) dBm (5250-5350 MHz) < 250 mW or 11+10log$_{10}$ (BW) dBm (5470-5725 MHz) <1 W (5725-5850 MHz)		PASS
Peak Power Spectral Density	§15.407(a)(1),(5)	<11 dBm/ MHz (5150-5250 MHz) <11 dBm/ MHz (5250-5350 MHz) <11 dBm/ MHz (5470-5725 MHz) <30 dBm/500 kHz (5725-5850 MHz)		PASS
Frequency Stability	§15.407(g) §2.1055	Maintained within the band		PASS (Note1)
AC Conducted Emissions 150 kHz-30 MHz	15.207	<FCC 15.207 limits		PASS (Note1)
Undesirable Emissions	§15.407(b)	<-27 dBm/MHz EIRP (UNII1, 2A, 2C) cf. Section 8.7 (UNII 3)	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

Note:

1. Please refer to the SM-T878U [UNII] Test Report.

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	5.088	5.106	0.996	0.02
		MCS1	5.072	5.094	0.996	0.02
		MCS2	5.054	5.077	0.996	0.02
		MCS3	5.210	5.225	0.997	0.01
		MCS4	5.141	5.172	0.994	0.03
		MCS5	5.124	5.146	0.996	0.02
		MCS6	5.111	5.138	0.995	0.02
		MCS7	5.107	5.130	0.996	0.02
		MCS8	5.153	5.172	0.996	0.02
		MCS9	5.107	5.125	0.997	0.02
	52	MCS0	5.072	5.094	0.996	0.02
		MCS1	5.059	5.077	0.997	0.02
		MCS2	5.057	5.075	0.996	0.02
		MCS3	5.206	5.225	0.996	0.02
		MCS4	5.150	5.171	0.996	0.02
		MCS5	5.124	5.143	0.996	0.02
		MCS6	5.115	5.134	0.996	0.02
		MCS7	5.107	5.126	0.996	0.02
		MCS8	5.149	5.170	0.996	0.02
		MCS9	5.106	5.124	0.996	0.02
	106	MCS0	4.758	4.777	0.996	0.02
		MCS1	4.758	4.777	0.996	0.02
		MCS2	4.753	4.772	0.996	0.02
		MCS3	4.902	4.921	0.996	0.02
		MCS4	4.849	4.868	0.996	0.02
		MCS5	4.827	4.845	0.996	0.02
		MCS6	4.821	4.839	0.996	0.02
		MCS7	4.811	4.830	0.996	0.02
		MCS8	4.851	4.869	0.996	0.02
		MCS9	4.803	4.818	0.997	0.01
	242	MCS0	4.768	4.785	0.996	0.02
		MCS1	4.661	4.680	0.996	0.02

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
		MCS2	4.663	4.678	0.997	0.01
		MCS3	4.807	4.822	0.997	0.01
		MCS4	4.746	4.765	0.996	0.02
		MCS5	4.720	4.739	0.996	0.02
		MCS6	4.712	4.731	0.996	0.02
		MCS7	4.704	4.723	0.996	0.02
		MCS8	4.740	4.758	0.996	0.02
		MCS9	4.697	4.716	0.996	0.02
		MCS10	4.723	4.739	0.997	0.01
		MCS11	4.701	4.716	0.997	0.01

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	5.088	5.107	0.996	0.02
		MCS1	5.077	5.096	0.996	0.02
		MCS2	5.058	5.077	0.996	0.02
		MCS3	5.206	5.225	0.996	0.02
		MCS4	5.157	5.176	0.996	0.02
		MCS5	5.127	5.146	0.996	0.02
		MCS6	5.118	5.137	0.996	0.02
		MCS7	5.111	5.130	0.996	0.02
		MCS8	5.149	5.168	0.996	0.02
		MCS9	5.106	5.124	0.996	0.02
	52	MCS0	5.073	5.092	0.996	0.02
		MCS1	5.062	5.077	0.997	0.01
		MCS2	5.058	5.073	0.997	0.01
		MCS3	5.206	5.225	0.996	0.02
		MCS4	5.153	5.168	0.997	0.01
		MCS5	5.124	5.140	0.997	0.01
		MCS6	5.115	5.134	0.996	0.02
		MCS7	5.109	5.124	0.997	0.01
		MCS8	5.149	5.167	0.996	0.02
		MCS9	5.112	5.127	0.997	0.01
	106	MCS0	4.766	4.784	0.996	0.02
		MCS1	4.758	4.777	0.996	0.02
		MCS2	4.758	4.773	0.997	0.01
		MCS3	4.906	4.921	0.997	0.01
		MCS4	4.853	4.868	0.997	0.01
		MCS5	4.830	4.845	0.997	0.01
		MCS6	4.821	4.836	0.997	0.01
		MCS7	4.811	4.826	0.997	0.01
		MCS8	4.851	4.870	0.996	0.02
		MCS9	4.803	4.822	0.996	0.02
	242	MCS0	4.666	4.685	0.996	0.02
		MCS1	4.666	4.682	0.997	0.01
		MCS2	4.659	4.678	0.996	0.02
		MCS3	4.803	4.822	0.996	0.02

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
		MCS4	4.746	4.765	0.996	0.02
		MCS5	4.720	4.735	0.997	0.01
		MCS6	4.712	4.727	0.997	0.01
		MCS7	4.704	4.720	0.997	0.01
		MCS8	4.739	4.758	0.996	0.02
		MCS9	4.697	4.712	0.997	0.01
		MCS10	4.720	4.735	0.997	0.01
		MCS11	4.698	4.717	0.996	0.02
	484	MCS0	4.663	4.682	0.996	0.02
		MCS1	4.805	4.821	0.997	0.01
		MCS2	4.750	4.765	0.997	0.01
		MCS3	4.720	4.738	0.996	0.02
		MCS4	4.739	4.758	0.996	0.02
		MCS5	4.712	4.727	0.997	0.01
		MCS6	4.707	4.723	0.997	0.01
		MCS7	4.726	4.744	0.996	0.02
		MCS8	4.710	4.729	0.996	0.02
		MCS9	4.713	4.732	0.996	0.02
		MCS10	4.717	4.735	0.996	0.02
		MCS11	4.712	4.727	0.997	0.01

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	5.088	5.107	0.996	0.02
		MCS1	5.077	5.096	0.996	0.02
		MCS2	5.057	5.075	0.996	0.02
		MCS3	5.209	5.224	0.997	0.01
		MCS4	5.155	5.173	0.996	0.02
		MCS5	5.122	5.145	0.996	0.02
		MCS6	5.119	5.138	0.996	0.02
		MCS7	5.111	5.130	0.996	0.02
		MCS8	5.149	5.168	0.996	0.02
		MCS9	5.107	5.126	0.996	0.02
	52	MCS0	5.073	5.092	0.996	0.02
		MCS1	5.058	5.077	0.996	0.02
		MCS2	5.054	5.073	0.996	0.02
		MCS3	5.210	5.225	0.997	0.01
		MCS4	5.149	5.168	0.996	0.02
		MCS5	5.122	5.141	0.996	0.02
		MCS6	5.115	5.134	0.996	0.02
		MCS7	5.107	5.126	0.996	0.02
		MCS8	5.152	5.170	0.996	0.02
		MCS9	5.107	5.122	0.997	0.01
	106	MCS0	4.766	4.784	0.996	0.02
		MCS1	4.761	4.777	0.997	0.01
		MCS2	4.758	4.773	0.997	0.01
		MCS3	4.902	4.921	0.996	0.02
		MCS4	4.849	4.868	0.996	0.02
		MCS5	4.827	4.842	0.997	0.01
		MCS6	4.821	4.836	0.997	0.01
		MCS7	4.812	4.830	0.996	0.02
		MCS8	4.853	4.868	0.997	0.01
		MCS9	4.803	4.822	0.996	0.02
	242	MCS0	4.666	4.685	0.996	0.02
		MCS1	4.663	4.678	0.997	0.01
		MCS2	4.659	4.678	0.996	0.02

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
		MCS3	4.805	4.821	0.997	0.01
		MCS4	4.750	4.765	0.997	0.01
		MCS5	4.720	4.735	0.997	0.01
		MCS6	4.710	4.729	0.996	0.02
		MCS7	4.704	4.720	0.997	0.01
		MCS8	4.739	4.758	0.996	0.02
		MCS9	4.697	4.712	0.997	0.01
		MCS10	4.720	4.735	0.997	0.01
		MCS11	4.698	4.717	0.996	0.02
	484	MCS0	4.664	4.680	0.997	0.01
		MCS1	4.803	4.818	0.997	0.01
		MCS2	4.746	4.765	0.996	0.02
		MCS3	4.720	4.735	0.997	0.01
		MCS4	4.739	4.758	0.996	0.02
		MCS5	4.710	4.729	0.996	0.02
		MCS6	4.708	4.723	0.997	0.01
		MCS7	4.727	4.745	0.996	0.02
		MCS8	4.712	4.731	0.996	0.02
		MCS9	4.717	4.732	0.997	0.01
		MCS10	4.717	4.732	0.997	0.01
		MCS11	4.712	4.727	0.997	0.01
	996	MCS0	4.731	4.750	0.996	0.02
		MCS1	4.723	4.739	0.997	0.01
		MCS2	4.716	4.731	0.997	0.01
		MCS3	4.713	4.729	0.997	0.01
		MCS4	4.708	4.723	0.997	0.01
		MCS5	4.707	4.723	0.997	0.01
		MCS6	4.704	4.722	0.996	0.02
		MCS7	4.704	4.720	0.997	0.01
		MCS8	4.701	4.720	0.996	0.02
		MCS9	4.708	4.723	0.997	0.01
		MCS10	4.704	4.720	0.997	0.01
		MCS11	4.704	4.720	0.997	0.01

Mode	BW	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (SU)	BW 20	MCS0	5.446	5.462	0.997	0.01
		MCS1	5.445	5.461	0.997	0.01
		MCS2	5.445	5.461	0.997	0.01
		MCS3	5.447	5.462	0.997	0.01
		MCS4	5.445	5.461	0.997	0.01
		MCS5	5.445	5.464	0.997	0.02
		MCS6	5.445	5.461	0.997	0.01
		MCS7	5.445	5.464	0.997	0.02
		MCS8	5.445	5.461	0.997	0.01
		MCS9	5.444	5.462	0.997	0.01
		MCS10	5.449	5.464	0.997	0.01
		MCS11	5.445	5.461	0.997	0.01
	BW 40	MCS0	5.442	5.461	0.997	0.02
		MCS1	5.445	5.461	0.997	0.01
		MCS2	5.447	5.462	0.997	0.01
		MCS3	5.442	5.461	0.997	0.02
		MCS4	5.445	5.464	0.997	0.02
		MCS5	5.445	5.461	0.997	0.01
		MCS6	5.442	5.461	0.997	0.02
		MCS7	5.442	5.462	0.996	0.02
		MCS8	5.446	5.462	0.997	0.01
		MCS9	5.446	5.462	0.997	0.01
		MCS10	5.445	5.464	0.997	0.02
		MCS11	5.445	5.461	0.997	0.01
	BW 80	MCS0	5.443	5.462	0.997	0.01
		MCS1	5.447	5.462	0.997	0.01
		MCS2	5.446	5.462	0.997	0.01
		MCS3	5.445	5.461	0.997	0.01
		MCS4	5.443	5.462	0.997	0.01
		MCS5	5.445	5.461	0.997	0.01
		MCS6	5.445	5.461	0.997	0.01
		MCS7	5.445	5.461	0.997	0.01
		MCS8	5.445	5.464	0.997	0.02
		MCS9	5.442	5.462	0.996	0.02

Mode	BW	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
		MCS10	5.445	5.461	0.997	0.01
		MCS11	5.442	5.461	0.997	0.02

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 1	5180	36	Low	19.83	20.36	20.63	-	-
			Mid	18.66	19.11	-	21.90	21.87
			High	19.77	20.02	20.68	-	-
	5200	40	Low	19.63	20.27	20.72	-	-
			Mid	18.50	18.80	-	21.80	21.47
			High	19.89	19.90	20.72	-	-
	5240	48	Low	19.85	20.08	20.48	-	-
			Mid	18.41	18.63	-	22.03	22.49
			High	19.95	19.98	20.32	-	-
UNII 2A	5260	52	Low	20.09	20.21	20.47	-	-
			Mid	18.25	18.77	-	21.79	21.89
			High	20.01	19.94	20.40	-	-
	5280	56	Low	20.08	20.26	20.70	-	-
			Mid	18.53	19.01	-	21.68	21.55
			High	20.10	19.78	20.36	-	-
	5320	64	Low	20.05	20.25	20.32	-	-
			Mid	18.32	18.66	-	22.13	21.74
			High	19.79	19.95	20.10	-	-
UNII 2C	5500	100	Low	20.06	20.18	20.45	-	-
			Mid	18.30	19.00	-	22.14	21.70
			High	19.89	19.92	20.46	-	-
	5600	120	Low	19.96	19.88	20.53	-	-
			Mid	18.32	19.07	-	22.03	22.10
			High	19.64	20.00	20.47	-	-
	5720	144	Low	19.96	20.34	20.60	-	-
			Mid	18.52	19.02	-	21.81	21.95
			High	19.98	20.03	20.42	-	-
UNII 3	5745	149	Low	20.07	20.10	20.53	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	26dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
			Mid	18.54	18.94	-	22.07	22.03
			High	19.93	19.79	20.55	-	-
	5785	157	Low	20.07	19.95	20.61	-	-
			Mid	18.61	18.93	-	21.58	22.49
			High	19.87	19.94	20.38	-	-
	5825	165	Low	19.83	19.95	20.54	-	-
			Mid	18.43	18.83	-	21.83	21.80
			High	19.82	19.84	20.59	-	-

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 1	5190	38	Low	39.84	40.11	40.35	41.27	-	-
			Mid	37.29	38.23	38.72	-	43.28	43.84
			High	39.81	39.92	40.38	40.94	-	-
	5230	46	Low	39.85	40.11	40.17	41.25	-	-
			Mid	38.07	38.16	38.56	-	43.62	43.41
			High	39.70	39.90	40.54	41.07	-	-
UNII 2A	5270	54	Low	39.77	40.06	39.99	41.11	-	-
			Mid	37.93	38.27	38.34	-	43.26	43.74
			High	39.97	40.18	40.44	40.92	-	-
	5310	62	Low	39.85	40.05	40.28	41.09	-	-
			Mid	38.03	38.33	38.55	-	44.18	43.68
			High	40.00	39.97	40.53	41.19	-	-
UNII 2C	5510	102	Low	39.98	39.96	40.03	41.40	-	-
			Mid	37.27	38.21	38.34	-	43.82	43.42
			High	39.79	40.31	40.62	40.95	-	-
	5590	118	Low	39.88	40.19	39.99	41.07	-	-
			Mid	38.07	38.13	38.50	-	43.62	43.29
			High	39.86	39.92	40.29	40.56	-	-
	5710	142	Low	40.15	39.98	39.97	40.64	-	-
			Mid	38.02	38.18	38.82	-	43.65	43.82
			High	39.91	40.07	40.11	40.70	-	-
UNII 3	5755	151	Low	40.07	40.01	40.05	41.28	-	-
			Mid	38.07	38.18	38.73	-	44.03	43.45
			High	38.60	39.93	40.42	41.14	-	-
	5795	159	Low	40.23	39.89	40.24	41.06	-	-
			Mid	38.03	37.56	38.70	-	43.69	43.59
			High	39.74	39.97	40.44	40.64	-	-

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 1	5210	42	Low	82.07	82.86	83.43	82.13	82.95	-	-
			Mid	78.20	78.30	79.41	81.03	-	85.09	85.23
			High	81.24	82.28	82.22	83.15	83.27	-	-
UNII 2A	5290	58	Low	81.54	82.91	83.09	83.14	83.41	-	-
			Mid	78.52	78.75	79.38	79.43	-	85.34	86.33
			High	80.88	81.35	82.61	83.26	84.28	-	-
UNII 2C	5530	106	Low	81.13	82.74	83.56	83.15	83.03	-	-
			Mid	78.04	78.59	79.84	79.63	-	85.38	85.08
			High	81.70	82.01	81.71	82.99	83.98	-	-
	5610	122	Low	81.45	83.18	83.16	83.15	83.18	-	-
			Mid	78.17	77.56	79.21	80.19	-	85.03	85.55
			High	81.14	82.32	83.47	82.77	84.23	-	-
	5690	138	Low	81.43	83.05	82.61	83.26	84.10	-	-
			Mid	78.40	78.49	79.68	80.48	-	85.77	85.14
			High	81.03	82.11	82.75	82.56	82.66	-	-
UNII 3	5775	155	Low	81.90	82.51	83.01	82.45	83.53	-	-
			Mid	78.02	78.54	79.90	80.71	-	85.02	85.25
			High	80.77	82.52	82.95	82.58	83.35	-	-

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 1	5180	36	Low	19.76	20.35	20.62	-	-
			Mid	18.51	18.71	-	21.62	***21.86***
			High	20.02	19.97	20.32	-	-
	5200	40	Low	20.07	20.24	20.82	-	-
			Mid	18.46	18.81	-	***22.06***	21.55
			High	19.93	19.84	20.82	-	-
	5240	48	Low	19.76	20.20	20.44	-	-
			Mid	18.38	19.03	-	21.96	***22.47***
			High	20.03	20.01	20.32	-	-
UNII 2a	5260	52	Low	20.08	20.01	20.27	-	-
			Mid	18.40	18.88	-	21.88	***22.03***
			High	20.12	19.88	20.45	-	-
	5280	56	Low	19.94	20.04	20.60	-	-
			Mid	18.32	19.02	-	***22.17***	21.74
			High	20.12	20.03	20.36	-	-
	5320	64	Low	19.75	20.23	20.50	-	-
			Mid	18.62	18.84	-	***21.88***	21.78
			High	20.07	19.64	20.37	-	-
UNII 2c	5500	100	Low	19.88	19.90	20.68	-	-
			Mid	18.55	19.01	-	***22.01***	22.00
			High	19.87	20.09	20.41	-	-
	5600	120	Low	20.00	19.75	20.51	-	-
			Mid	18.53	18.88	-	21.99	***22.07***
			High	19.82	19.90	20.28	-	-
	5720	144	Low	20.05	20.01	20.71	-	-
			Mid	18.40	18.59	-	***22.03***	21.74
			High	20.14	20.07	20.45	-	-
UNII 3	5745	149	Low	20.14	20.16	20.48	-	-
			Mid	18.58	18.86	-	21.82	***22.00***

HE20	Frequency [MHz]	Channel No.	RU Index	26dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
			High	20.09	19.86	20.48	-	-
	5785	157	Low	19.88	20.10	20.54	-	-
			Mid	18.56	18.80	-	21.89	***22.21***
			High	20.10	19.94	20.46	-	-
	5825	165	Low	19.86	20.20	20.68	-	-
			Mid	18.38	18.96	-	***21.66***	21.62
			High	19.90	19.81	20.36	-	-

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 1	5190	38	Low	39.87	40.14	40.12	41.07	-	-
			Mid	38.05	38.11	38.52	-	43.37	***44.03***
			High	39.96	39.93	40.54	41.77	-	-
	5230	46	Low	39.83	39.85	40.00	41.23	-	-
			Mid	38.08	38.17	38.75	-	***43.70***	43.01
			High	39.97	39.83	40.50	41.07	-	-
UNII 2a	5270	54	Low	39.79	40.06	39.95	41.25	-	-
			Mid	38.00	38.17	38.48	-	***43.80***	43.65
			High	39.98	40.14	40.02	41.01	-	-
	5310	62	Low	40.18	40.20	40.00	40.79	-	-
			Mid	38.00	38.20	38.35	-	***43.69***	43.67
			High	40.00	39.91	40.16	40.83	-	-
UNII 2c	5510	102	Low	40.00	39.88	40.00	40.91	-	-
			Mid	38.06	38.19	38.57	-	***43.80***	43.74
			High	39.16	40.14	40.47	41.13	-	-
	5590	118	Low	39.94	39.99	39.69	40.94	-	-
			Mid	38.09	38.15	38.64	-	43.13	***43.16***
			High	39.92	40.06	40.43	41.02	-	-
	5710	142	Low	40.08	40.01	40.08	40.40	-	-
			Mid	37.99	38.23	38.57	-	***43.62***	43.21
			High	39.90	39.77	40.36	41.09	-	-
UNII 3	5755	151	Low	40.17	39.93	40.01	41.39	-	-
			Mid	38.14	38.08	38.37	-	***43.89***	43.36
			High	40.00	39.77	40.31	41.22	-	-
	5795	159	Low	40.05	40.20	39.97	41.26	-	-
			Mid	38.00	38.22	38.34	-	***43.75***	43.73
			High	39.82	39.97	40.45	41.09	-	-

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 1	5210	42	Low	82.11	82.27	82.43	83.57	83.94	-	-
			Mid	78.35	78.37	79.60	80.78	-	***86.39***	85.89
			High	81.70	82.40	81.93	82.97	83.83	-	-
UNII 2a	5290	58	Low	80.91	82.99	83.06	82.77	83.67	-	-
			Mid	77.79	78.46	79.38	80.35	-	86.06	***86.41***
			High	81.87	81.86	82.40	83.00	84.39	-	-
UNII 2c	5530	106	Low	81.12	82.19	83.08	84.01	82.76	-	-
			Mid	78.09	78.63	79.68	80.78	-	***85.83***	85.07
			High	82.87	82.26	82.69	83.53	84.38	-	-
	5610	122	Low	81.87	82.81	82.32	82.85	83.62	-	-
			Mid	78.04	78.88	79.45	81.20	-	85.43	***86.15***
			High	80.28	82.64	83.39	83.13	84.01	-	-
	5690	138	Low	81.28	82.11	83.27	83.07	83.82	-	-
			Mid	78.46	78.95	78.86	80.74	-	85.23	***86.23***
			High	80.68	82.12	83.58	82.90	84.42	-	-
UNII 3	5775	155	Low	81.76	82.45	82.35	82.87	83.57	-	-
			Mid	78.61	78.69	79.90	81.05	-	***86.23***	85.32
			High	81.95	82.33	83.26	82.63	84.92	-	-

10.3 6dB BANDWIDTH

10.3.1 Ant1

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	6dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 3	5745	149	Low	***2.10***	17.08	17.14	-	-
			Mid	2.68	15.11	-	19.07	19.08
			High	2.12	17.04	17.17	-	-
	5785	157	Low	***2.15***	17.09	18.11	-	-
			Mid	2.69	15.14	-	19.09	19.07
			High	8.26	17.06	17.17	-	-
	5825	165	Low	***2.10***	15.86	18.14	-	-
			Mid	2.67	15.11	-	19.09	19.07
			High	2.12	15.82	17.07	-	-

Limit : > 0.5 MHz

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	6dB BW(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 3	5755	151	Low	2.14	4.19	36.59	36.69	-	-
			Mid	***2.14***	4.13	30.10	-	38.16	38.19
			High	2.18	4.17	36.56	36.68	-	-
	5795	159	Low	2.17	4.20	35.36	36.72	-	-
			Mid	***2.10***	4.16	33.84	-	38.23	38.19
			High	2.18	4.15	36.56	36.65	-	-

Limit : > 0.5 MHz

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	6dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 3	5775	155	Low	2.27	4.30	8.42	71.63	76.89	-	-
			Mid	2.80	4.31	8.42	74.99	-	78.20	78.16
			High	***2.27***	4.32	8.40	75.45	76.88	-	-

Limit : > 0.5 MHz

10.3.2 Ant2

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	6dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 3	5745	149	Low	2.14	17.10	17.14	-	-
			Mid	2.70	15.11	-	19.09	19.10
			High	***2.10***	15.83	17.15	-	-
	5785	157	Low	***2.11***	17.11	18.10	-	-
			Mid	2.68	15.13	-	19.08	19.08
			High	2.13	15.85	17.16	-	-
	5825	165	Low	2.13	17.09	17.18	-	-
			Mid	2.69	15.04	-	19.09	19.07
			High	***2.09***	14.58	17.16	-	-

Limit : > 0.5 MHz

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	6dB BW(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 3	5755	151	Low	***2.13***	4.19	36.60	36.73	-	-
			Mid	2.15	4.13	35.07	-	38.15	38.17
			High	2.17	4.16	36.49	36.67	-	-
	5795	159	Low	2.16	4.20	35.29	37.63	-	-
			Mid	***2.14***	4.16	32.52	-	38.20	38.13
			High	2.16	4.14	36.59	36.68	-	-

Limit : > 0.5 MHz

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	6dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 3	5775	155	Low	***2.27***	4.28	8.47	70.52	76.89	-	-
			Mid	2.81	4.26	8.43	68.87	-	78.18	78.19
			High	2.30	4.32	8.43	76.75	76.87	-	-

Limit : > 0.5 MHz

10.4 OUTPUT POWER MEASUREMENT

Power Level Setting

802.11ax(HE20)		Frequency [MHz]	Channel No.	26 T	52T	106T	242 T
UNII 1	Low	5180	36	10	10	10	10
	Mid	5200	40	10	10	10	10
	High	5240	48	10	10	10	10
UNII 2A	Low	5260	52	10	10	10	10
	Mid	5300	60	10	10	10	10
	High	5320	64	10	10	10	10
UNII 2C	Low	5500	100	10	10	10	10
	Mid	5600	120	10	10	10	10
	High	5720	144	10	10	10	10
UNII 3	Low	5745	149	10	10	10	10
	Mid	5785	157	10	10	10	10
	High	5825	165	10	10	10	10

802.11ax(HE40)		Frequency [MHz]	Channel No.	26 T	52T	106T	242 T	484T
UNII 1	Low	5190	38	10	10	10	10	10
	High	5230	46	10	10	10	10	10
UNII 2A	Low	5270	54	10	10	10	10	10
	High	5310	62	10	10	10	10	10
UNII 2C	Low	5510	102	10	10	10	10	10
	Mid	5590	118	10	10	10	10	10
	High	5710	142	10	10	10	10	10
UNII 3	Low	5755	151	10	10	10	10	10
	High	5795	159	10	10	10	10	10

802.11ax(HE80)		Frequency [MHz]	Channel No.	26 T	52T	106T	242 T	484T	996T
UNII 1	Mid	5210	42	11	11	10.5	10.5	10	10
UNII 2A	Mid	5290	58	10	10	10	10	10	10
UNII 2C	Low	5530	106	10	10	10	10	10	10
	Mid	5610	122	10	10	10	10	10	10
	High	5690	138	10	10	10	10	10	10
UNII 3	Mid	5775	155	10.5	10.5	10	10	10	10

10.4.1 Ant1

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

Straddle channel data were added in section 10.6.3.

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	Total Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	9.87	10.20	10.50	-	-
			Mid	10.03	10.37	-	10.69	10.63
			High	9.88	10.25	10.51	-	-
	5200	40	Low	9.61	9.94	10.19	-	-
			Mid	9.80	10.00	-	10.42	10.34
			High	9.75	9.92	10.30	-	-
	5240	48	Low	10.08	10.25	10.61	-	-
			Mid	10.27	10.41	-	10.81	10.74
			High	10.08	10.29	10.67	-	-
UNII 2A	5260	52	Low	10.10	10.31	10.67	-	-
			Mid	10.25	10.44	-	10.80	10.78
			High	10.08	10.29	10.69	-	-
	5280	56	Low	9.94	10.17	10.52	-	-
			Mid	10.06	10.32	-	10.67	10.60
			High	9.86	10.18	10.53	-	-
	5320	64	Low	10.04	10.35	10.77	-	-
			Mid	10.21	10.46	-	10.78	10.71
			High	10.05	10.31	10.78	-	-
UNII 2C	5500	100	Low	9.63	10.01	10.28	-	-
			Mid	9.82	10.13	-	10.30	10.29
			High	9.75	9.92	10.32	-	-
	5600	120	Low	10.15	10.40	10.73	-	-
			Mid	10.32	10.52	-	10.77	10.76
			High	10.19	10.39	10.76	-	-
	5720	144	Low	10.05	10.30	10.50	-	-
			Mid	10.20	10.44	-	10.65	10.64
			High	9.97	10.26	10.51	-	-
UNII 3	5745	149	Low	10.21	10.49	10.70	-	-
			Mid	10.32	10.55	-	10.85	10.79

HE20	Frequency [MHz]	Channel No.	RU Index	Total Power (dBm)				
				26 T	52 T	106 T	242 T	SU
			High	10.03	10.33	10.71	-	-
	5785	157	Low	10.48	10.69	10.93	-	-
			Mid	10.55	10.77	-	10.96	10.91
			High	10.36	10.54	10.94	-	-
	5825	165	Low	10.45	10.63	10.90	-	-
			Mid	10.60	10.73	-	10.92	10.85
			High	10.39	10.51	10.91	-	-

Limit

(UNII 1) : 23.98 dBm

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

(UNII 3) : 30.00 dBm

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	Total Power(dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	8.91	9.26	9.98	10.04	-	-
			Mid	9.45	9.66	10.21	-	10.29	10.21
			High	9.05	9.32	9.96	10.03	-	-
	5230	46	Low	9.13	9.35	10.01	10.24	-	-
			Mid	9.75	9.89	10.35	-	10.47	10.47
			High	9.27	9.52	10.16	10.23	-	-
UNII 2a	5270	54	Low	9.32	9.57	10.13	10.38	-	-
			Mid	9.83	10.00	10.42	-	10.57	10.52
			High	9.24	9.45	10.22	10.37	-	-
	5310	62	Low	9.59	9.81	10.49	10.65	-	-
			Mid	10.04	10.17	10.76	-	10.81	10.77
			High	9.49	9.67	10.44	10.61	-	-
UNII 2c	5510	102	Low	8.94	9.04	9.76	10.07	-	-
			Mid	9.52	9.61	10.07	-	10.09	10.09
			High	9.21	9.26	9.94	10.06	-	-
	5590	118	Low	9.31	9.38	10.11	10.28	-	-
			Mid	9.85	9.85	10.39	-	10.39	10.34
			High	9.35	9.43	10.13	10.27	-	-
	5710	142	Low	10.13	10.28	10.73	10.81	-	-
			Mid	10.52	10.67	10.85	-	10.96	10.95
			High	9.92	10.21	10.60	10.72	-	-
UNII 3	5755	151	Low	9.32	9.57	10.15	10.21	-	-
			Mid	9.71	9.91	10.33	-	10.33	10.28
			High	9.05	9.33	9.92	10.07	-	-
	5795	159	Low	9.88	10.11	10.67	10.72	-	-
			Mid	10.20	10.36	10.86	-	10.81	10.79
			High	9.51	9.78	10.37	10.56	-	-

Limit

(UNII 1) : 23.98 dBm

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

(UNII 3) : 30.00 dBm

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	Total Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	9.71	10.57	9.98	10.16	10.00	-	-
			Mid	10.14	10.94	10.47	10.41	-	9.74	9.69
			High	9.92	10.79	10.31	10.40	9.98	-	-
UNII 2a	5290	58	Low	9.23	9.36	10.01	10.12	10.24	-	-
			Mid	9.51	9.61	10.25	10.25	-	10.05	10.00
			High	8.97	9.14	9.92	10.23	10.18	-	-
UNII 2c	5530	106	Low	8.93	9.05	9.75	10.15	10.34	-	-
			Mid	9.61	9.70	10.29	10.33	-	10.05	10.03
			High	9.41	9.54	10.12	10.32	10.33	-	-
	5610	122	Low	9.52	9.76	10.30	10.52	10.61	-	-
			Mid	9.97	10.14	10.58	10.62	-	10.45	10.29
			High	9.56	9.76	10.20	10.29	10.50	-	-
	5690	138	Low	9.27	9.43	9.96	10.01	10.13	-	-
			Mid	9.55	9.74	10.14	10.19	-	10.07	9.99
			High	9.05	9.23	9.72	9.88	10.05	-	-
UNII 3	5775	155	Low	10.40	10.53	10.50	10.63	10.71	-	-
			Mid	10.42	10.57	10.51	10.66	-	10.27	10.17
			High	9.67	9.86	9.89	10.07	10.33	-	-

Limit

(UNII 1) : 23.98 dBm

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

(UNII 3) : 30.00 dBm

10.4.2 Ant2

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

Straddle channel data were added in section 10.6.3.

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	Total Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	8.88	9.14	9.50	-	-
			Mid	8.93	9.26	-	9.81	9.76
			High	8.71	8.99	9.51	-	-
	5200	40	Low	8.83	9.14	9.57	-	-
			Mid	8.89	9.24	-	9.82	9.78
			High	8.75	9.08	9.58	-	-
	5240	48	Low	8.86	9.12	9.52	-	-
			Mid	8.97	9.26	-	9.78	9.78
			High	8.79	9.11	9.53	-	-
UNII 2A	5260	52	Low	8.78	9.07	9.49	-	-
			Mid	8.90	9.17	-	9.74	9.73
			High	8.71	8.98	9.51	-	-
	5280	56	Low	8.75	9.05	9.43	-	-
			Mid	8.83	9.17	-	9.68	9.67
			High	8.66	8.98	9.44	-	-
	5320	64	Low	8.89	9.20	9.63	-	-
			Mid	9.02	9.34	-	9.77	9.76
			High	8.85	9.17	9.63	-	-
UNII 2C	5500	100	Low	9.17	9.44	9.68	-	-
			Mid	9.28	9.50	-	10.10	10.01
			High	9.12	9.36	9.69	-	-
	5600	120	Low	10.40	10.62	10.95	-	-
			Mid	10.41	10.69	-	11.00	10.93
			High	10.24	10.50	10.96	-	-
	5720	144	Low	9.41	9.59	9.94	-	-
			Mid	9.51	9.65	-	10.42	10.34
			High	9.34	9.43	9.95	-	-
UNII 3	5745	149	Low	9.35	9.41	9.94	-	-
			Mid	9.44	9.65	-	10.25	10.17

HE20	Frequency [MHz]	Channel No.	RU Index	Total Power (dBm)				
				26 T	52 T	106 T	242 T	SU
			High	9.22	9.42	9.94	-	-
	5785	157	Low	9.40	9.53	9.87	-	-
			Mid	9.42	9.64	-	10.16	10.12
			High	9.03	9.39	9.88	-	-
	5825	165	Low	8.81	9.14	9.50	-	-
			Mid	8.89	9.21	-	9.72	9.70
			High	8.65	9.00	9.51	-	-

Limit

(UNII 1) : 23.98 dBm

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

(UNII 3) : 30.00 dBm

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	Total Power(dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	8.98	9.14	9.12	9.19	-	-
			Mid	9.21	9.40	9.29	-	9.25	9.16
			High	8.65	8.95	8.91	9.06	-	-
	5230	46	Low	8.63	8.87	8.84	8.96	-	-
			Mid	9.13	9.29	9.10	-	9.05	9.01
			High	8.60	8.80	8.76	8.95	-	-
UNII 2A	5270	54	Low	8.94	9.16	9.12	9.39	-	-
			Mid	9.33	9.47	9.34	-	9.28	9.22
			High	8.72	8.97	8.91	9.10	-	-
	5310	62	Low	8.74	9.01	9.01	9.08	-	-
			Mid	9.22	9.36	9.26	-	9.17	9.16
			High	8.63	8.91	8.88	9.00	-	-
UNII 2C	5510	102	Low	9.96	10.22	10.23	10.31	-	-
			Mid	10.43	10.57	10.51	-	10.45	10.44
			High	9.95	10.18	10.26	10.27	-	-
	5590	118	Low	10.03	10.26	10.29	10.30	-	-
			Mid	10.43	10.55	10.55	-	10.58	10.50
			High	9.74	10.01	10.17	10.25	-	-
	5710	142	Low	9.52	9.77	9.86	9.83	-	-
			Mid	9.86	10.00	10.06	-	10.02	9.99
			High	9.19	9.50	9.63	9.66	-	-
UNII 3	5755	151	Low	9.42	9.68	9.78	9.70	-	-
			Mid	9.78	9.94	9.96	-	9.83	9.79
			High	9.07	9.34	9.44	9.47	-	-
	5795	159	Low	8.96	9.15	9.26	9.17	-	-
			Mid	9.25	9.33	9.42	-	9.31	9.30
			High	8.59	8.76	8.92	8.95	-	-

Limit

(UNII 1) : 23.98 dBm

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

(UNII 3) : 30.00 dBm

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	Total Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	9.04	9.23	9.02	9.29	8.95	-	-
			Mid	9.23	9.40	9.04	9.34	-	9.01	8.98
			High	8.79	8.97	8.73	9.07	8.81	-	-
UNII 2A	5290	58	Low	9.05	9.22	9.45	9.77	9.87	-	-
			Mid	9.16	9.32	9.62	9.77	-	9.89	9.88
			High	8.66	8.83	9.31	9.43	9.66	-	-
UNII 2C	5530	106	Low	9.21	9.39	9.96	10.04	10.21	-	-
			Mid	9.52	9.70	10.32	10.19	-	10.31	10.30
			High	9.14	9.26	9.99	10.07	10.20	-	-
	5610	122	Low	9.72	9.85	10.42	10.41	10.53	-	-
			Mid	9.79	9.88	10.43	10.50	-	10.70	10.67
			High	8.96	9.10	9.97	10.11	10.31	-	-
	5690	138	Low	9.48	9.52	10.20	10.24	10.43	-	-
			Mid	9.49	9.53	10.22	10.32	-	10.43	10.41
			High	8.77	8.85	9.69	9.83	10.11	-	-
UNII 3	5775	155	Low	9.70	9.65	9.84	9.93	10.13	-	-
			Mid	9.71	9.67	9.85	9.95	-	10.10	10.09
			High	8.89	8.89	9.10	9.25	9.64	-	-

Limit

(UNII 1) : 23.98 dBm

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

(UNII 3) : 30.00 dBm

10.4.3 Ant1+Ant2

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	Total Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	12.41	12.72	13.04	-	-
			Mid	12.52	12.86	-	13.28	13.22
			High	12.34	12.68	13.05	-	-
	5200	40	Low	12.25	12.57	12.90	-	-
			Mid	12.38	12.65	-	13.14	13.08
			High	12.29	12.53	12.96	-	-
	5240	48	Low	12.52	12.73	13.11	-	-
			Mid	12.68	12.88	-	13.33	13.29
			High	12.50	12.75	13.15	-	-
UNII 2A	5260	52	Low	12.50	12.75	13.13	-	-
			Mid	12.63	12.86	-	13.31	13.30
			High	12.46	12.69	13.15	-	-
	5280	56	Low	12.40	12.66	13.02	-	-
			Mid	12.50	12.79	-	13.22	13.17
			High	12.31	12.63	13.03	-	-
	5320	64	Low	12.51	12.82	13.25	-	-
			Mid	12.67	12.95	-	13.31	13.27
			High	12.50	12.79	13.25	-	-
UNII 2C	5500	100	Low	12.41	12.75	13.00	-	-
			Mid	12.57	12.83	-	13.21	13.16
			High	12.46	12.66	13.03	-	-
	5600	120	Low	13.29	13.52	13.85	-	-
			Mid	13.38	13.62	-	13.90	13.86
			High	13.23	13.46	13.87	-	-
	5720	144	Low	12.75	12.97	13.23	-	-
			Mid	12.88	13.07	-	13.55	13.50
			High	12.68	12.87	13.25	-	-
UNII 3	5745	149	Low	12.81	12.99	13.35	-	-
			Mid	12.91	13.13	-	13.57	13.50
			High	12.66	12.91	13.35	-	-
	5785	157	Low	12.98	13.16	13.45	-	-
			Mid	13.03	13.25	-	13.59	13.55

HE20	Frequency [MHz]	Channel No.	RU Index	Total Power (dBm)				
				26 T	52 T	106 T	242 T	SU
			High	12.76	13.01	13.45	-	-
	5825	165	Low	12.72	12.96	13.27	-	-
			Mid	12.84	13.05	-	13.37	13.33
			High	12.62	12.83	13.28	-	-

Limit

(UNII 1) : 23.98 dBm

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

(UNII 3) : 30.00 dBm

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	Total Power(dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	11.96	12.21	12.58	12.65	-	-
			Mid	12.34	12.54	12.78	-	12.81	12.73
			High	11.87	12.15	12.48	12.59	-	-
	5230	46	Low	11.89	12.12	12.47	12.65	-	-
			Mid	12.46	12.61	12.78	-	12.83	12.81
			High	11.96	12.19	12.52	12.65	-	-
UNII 2A	5270	54	Low	12.15	12.38	12.66	12.93	-	-
			Mid	12.59	12.76	12.92	-	12.98	12.93
			High	12.00	12.23	12.63	12.80	-	-
	5310	62	Low	12.19	12.44	12.82	12.95	-	-
			Mid	12.66	12.79	13.08	-	13.08	13.05
			High	12.09	12.32	12.74	12.89	-	-
UNII 2C	5510	102	Low	12.49	12.68	13.02	13.20	-	-
			Mid	13.01	13.13	13.30	-	13.29	13.28
			High	12.60	12.75	13.11	13.18	-	-
	5590	118	Low	12.70	12.85	13.21	13.30	-	-
			Mid	13.16	13.22	13.48	-	13.50	13.43
			High	12.56	12.74	13.16	13.27	-	-
	5710	142	Low	12.84	13.04	13.33	13.36	-	-
			Mid	13.21	13.36	13.48	-	13.52	13.51
			High	12.58	12.88	13.15	13.23	-	-
UNII 3	5755	151	Low	12.38	12.64	12.98	12.97	-	-
			Mid	12.76	12.94	13.16	-	13.10	13.05
			High	12.07	12.35	12.70	12.79	-	-
	5795	159	Low	12.46	12.67	13.03	13.02	-	-
			Mid	12.76	12.88	13.21	-	13.14	13.12
			High	12.08	12.31	12.71	12.84	-	-

Limit

(UNII 1) : 23.98 dBm

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

(UNII 3) : 30.00 dBm

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	Total Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	12.40	12.96	12.53	12.76	12.52	-	-
			Mid	12.72	13.25	12.82	12.92	-	12.40	12.36
			High	12.40	12.99	12.60	12.80	12.45	-	-
UNII 2A	5290	58	Low	12.15	12.30	12.75	12.96	13.07	-	-
			Mid	12.35	12.48	12.96	13.03	-	12.98	12.95
			High	11.83	11.99	12.64	12.86	12.94	-	-
UNII 2C	5530	106	Low	12.08	12.24	12.86	13.11	13.28	-	-
			Mid	12.58	12.71	13.32	13.27	-	13.19	13.18
			High	12.29	12.41	13.07	13.21	13.27	-	-
	5610	122	Low	12.63	12.82	13.37	13.47	13.58	-	-
			Mid	12.89	13.02	13.52	13.57	-	13.59	13.50
			High	12.28	12.45	13.10	13.21	13.41	-	-
	5690	138	Low	12.38	12.49	13.09	13.14	13.29	-	-
			Mid	12.53	12.65	13.19	13.27	-	13.27	13.21
			High	11.92	12.05	12.72	12.86	13.09	-	-
UNII 3	5775	155	Low	13.07	13.12	13.19	13.30	13.44	-	-
			Mid	13.09	13.15	13.20	13.33	-	13.20	13.14
			High	12.31	12.41	12.52	12.69	13.01	-	-

Limit

(UNII 1) : 23.98 dBm

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

(UNII 3) : 30.00 dBm

10.5 POWER SPECTRAL DENSITY

10.5.1 Ant1

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	7.07	4.52	2.09	-	-
			Mid	6.19	4.50	-	-1.18	-1.04
			High	6.97	4.29	2.12	-	-
	5200	40	Low	6.81	4.19	1.77	-	-
			Mid	6.06	4.26	-	-1.60	-1.68
			High	7.05	4.14	2.07	-	-
	5240	48	Low	***7.24***	4.64	2.21	-	-
			Mid	6.17	4.67	-	-1.06	-1.31
			High	7.04	4.47	2.08	-	-
UNII 2A	5260	52	Low	7.08	4.48	2.13	-	-
			Mid	6.22	4.57	-	-1.07	-1.24
			High	6.96	4.56	2.20	-	-
	5280	56	Low	6.95	4.35	1.99	-	-
			Mid	6.09	4.58	-	-1.32	-1.54
			High	7.04	4.38	1.99	-	-
	5320	64	Low	7.04	4.60	2.13	-	-
			Mid	6.17	4.72	-	-1.15	-1.42
			High	6.87	4.37	1.98	-	-
UNII 2C	5500	100	Low	6.48	4.13	1.48	-	-
			Mid	5.63	4.16	-	-1.74	-2.05
			High	6.38	4.11	1.33	-	-
	5600	120	Low	7.11	4.77	2.05	-	-
			Mid	6.17	5.02	-	-1.10	-1.22
			High	7.12	4.70	2.31	-	-
	5720	144	Low	7.09	4.61	1.97	-	-
			Mid	6.32	4.76	-	-1.24	-1.38
			High	7.07	4.53	1.94	-	-
UNII 3	5745	149	Low	4.54	2.07	-0.58	-	-
			Mid	4.44	2.06	-	-3.92	-4.08
			High	4.47	1.93	-0.59	-	-
	5785	157	Low	***4.89***	2.61	-0.34	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)				
				26 T	52 T	106 T	242 T	SU
			Mid	4.79	2.25	-	-3.77	-3.52
			High	4.63	2.17	-0.63	-	-
	5825	165	Low	4.69	2.53	-0.33	-	-
			Mid	4.49	2.31	-	-3.78	-3.67
			High	4.56	2.23	-0.69	-	-

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

Limit(UNII 3) : 30.0 dBm/500kHz

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	6.08	3.42	1.35	-1.87	-	-
			Mid	6.70	4.18	1.56	-	-4.85	-4.44
			High	6.41	3.75	1.47	-2.03	-	-
	5230	46	Low	6.34	3.87	1.53	-1.91	-	-
			Mid	6.64	4.32	1.93	-	-4.50	-4.58
			High	6.50	3.73	1.68	-1.86	-	-
UNII 2A	5270	54	Low	6.80	3.78	1.68	-1.63	-	-
			Mid	7.01	4.12	1.86	-	-4.62	-4.56
			High	6.38	3.77	1.57	-1.72	-	-
	5310	62	Low	6.63	4.14	2.02	-1.38	-	-
			Mid	6.91	4.37	2.01	-	-4.49	-4.40
			High	6.51	3.92	1.97	-1.57	-	-
UNII 2C	5510	102	Low	5.94	3.37	1.32	-2.38	-	-
			Mid	6.72	3.89	1.30	-	-5.15	-4.97
			High	6.33	3.68	1.37	-2.26	-	-
	5590	118	Low	6.46	3.81	1.55	-1.97	-	-
			Mid	6.98	4.24	1.81	-	-4.63	-4.56
			High	6.30	3.87	1.48	-1.76	-	-
	5710	142	Low	7.24	4.72	2.37	-1.15	-	-
			Mid	***7.70***	5.19	2.63	-	-3.85	-3.86
			High	7.10	4.63	2.40	-1.21	-	-
UNII 3	5755	151	Low	3.79	1.01	-1.32	-4.64	-	-
			Mid	3.86	1.59	-1.29	-	-7.46	-7.64
			High	3.42	1.01	-1.43	-4.71	-	-
	5795	159	Low	4.22	1.59	-0.85	-4.36	-	-
			Mid	***5.05***	2.06	-0.71	-	-7.13	-7.05
			High	3.79	1.34	-0.82	-4.30	-	-

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

Limit(UNII 3) : 30.0 dBm/500kHz

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	7.36	4.46	1.50	-1.93	-5.04	-	-
			Mid	6.81	5.00	2.03	-1.61	-	-8.24	-8.19
			High	***7.55***	4.89	1.90	-1.55	-4.88	-	-
UNII 2A	5290	58	Low	6.40	4.01	1.65	-1.70	-4.53	-	-
			Mid	5.70	4.01	1.69	-1.61	-	-7.79	-7.80
			High	6.31	3.73	1.60	-1.75	-4.39	-	-
UNII 2C	5530	106	Low	6.43	3.87	1.45	-1.81	-4.56	-	-
			Mid	5.69	4.36	1.91	-1.78	-	-7.76	-7.72
			High	6.60	4.10	1.84	-1.79	-4.41	-	-
	5610	122	Low	6.98	4.23	1.99	-1.48	-4.14	-	-
			Mid	6.17	4.79	2.17	-1.44	-	-7.51	-7.52
			High	6.97	4.37	1.83	-1.56	-4.37	-	-
	5690	138	Low	6.50	4.03	1.57	-1.83	-4.43	-	-
			Mid	5.73	4.30	1.71	-1.81	-	-7.97	-7.84
			High	6.31	3.80	1.44	-2.11	-4.62	-	-
UNII 3	5775	155	Low	***5.01***	2.08	-0.54	-4.22	-7.02	-	-
			Mid	4.77	2.02	-1.01	-4.18	-	-10.08	-10.28
			High	4.26	1.79	-1.11	-4.76	-7.21	-	-

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

Limit(UNII 3) : 30.0 dBm/500kHz

10.5.2 Ant2

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	6.26	3.50	0.97	-	-
			Mid	5.17	3.77	-	-2.42	-2.49
			High	6.03	3.33	0.85	-	-
	5200	40	Low	6.22	3.60	0.87	-	-
			Mid	5.01	3.77	-	-2.55	-2.50
			High	5.94	3.38	0.76	-	-
	5240	48	Low	5.91	3.38	0.75	-	-
			Mid	5.41	3.42	-	-2.34	-2.41
			High	5.86	3.48	0.69	-	-
UNII 2A	5260	52	Low	6.08	3.39	0.56	-	-
			Mid	5.02	3.24	-	-2.44	-2.65
			High	5.92	3.34	0.44	-	-
	5280	56	Low	5.71	3.34	0.44	-	-
			Mid	4.72	3.26	-	-2.54	-2.73
			High	5.70	3.28	0.43	-	-
	5320	64	Low	6.00	3.58	0.58	-	-
			Mid	4.93	3.54	-	-2.53	-2.71
			High	6.13	3.23	0.45	-	-
UNII 2C	5500	100	Low	6.26	3.62	0.79	-	-
			Mid	4.83	3.53	-	-2.29	-2.55
			High	5.95	3.47	0.84	-	-
	5600	120	Low	***7.72***	4.95	2.42	-	-
			Mid	6.34	5.11	-	-0.79	-0.99
			High	7.24	4.97	2.25	-	-
	5720	144	Low	6.42	3.90	1.27	-	-
			Mid	5.37	3.95	-	-1.85	-2.01
			High	6.23	3.78	1.14	-	-
UNII 3	5745	149	Low	3.50	1.14	-1.64	-	-
			Mid	3.25	1.02	-	-4.77	-5.09
			High	3.33	0.90	-1.75	-	-
	5785	157	Low	***3.60***	0.76	-1.85	-	-
			Mid	3.53	0.78	-	-4.95	-5.14

HE20	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)				
				26 T	52 T	106 T	242 T	SU
			High	3.18	0.89	-1.75	-	-
	5825	165	Low	2.96	0.30	-2.33	-	-
			Mid	3.11	0.46	-	-5.48	-5.57
			High	2.85	0.33	-2.08	-	-

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

Limit(UNII 3) : 30.0 dBm/500kHz

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	5.33	2.91	0.52	-2.99	-	-
			Mid	5.74	3.30	0.59	-	-5.47	-5.82
			High	5.26	2.68	0.37	-2.97	-	-
	5230	46	Low	5.24	2.65	0.23	-3.27	-	-
			Mid	5.63	3.06	0.25	-	-6.05	-5.90
			High	4.84	2.64	0.16	-3.21	-	-
UNII 2A	5270	54	Low	5.38	3.07	0.46	-2.93	-	-
			Mid	5.84	3.45	0.73	-	-5.82	-5.87
			High	5.00	2.87	0.29	-3.12	-	-
	5310	62	Low	5.15	2.96	0.34	-3.01	-	-
			Mid	5.52	3.24	0.36	-	-5.97	-5.99
			High	5.02	2.63	0.05	-3.25	-	-
UNII 2C	5510	102	Low	6.29	3.95	1.39	-1.90	-	-
			Mid	6.85	4.38	1.68	-	-4.78	-4.70
			High	6.28	4.10	1.59	-2.09	-	-
	5590	118	Low	6.55	4.21	1.81	-1.84	-	-
			Mid	***7.01***	4.33	1.82	-	-4.57	-4.63
			High	6.36	3.91	1.54	-1.68	-	-
	5710	142	Low	5.95	3.60	1.25	-2.14	-	-
			Mid	6.56	4.02	1.34	-	-5.02	-5.06
			High	5.57	3.46	1.09	-2.23	-	-
UNII 3	5755	151	Low	3.44	0.70	-1.68	-5.17	-	-
			Mid	***3.51***	0.95	-1.70	-	-7.98	-8.18
			High	2.95	0.36	-2.10	-5.37	-	-
	5795	159	Low	2.82	0.19	-2.03	-5.69	-	-
			Mid	3.03	0.26	-1.91	-	-8.72	-8.63
			High	2.32	-0.25	-2.53	-5.95	-	-

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

Limit(UNII 3) : 30.0 dBm/500kHz

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	6.25	3.66	0.55	-2.94	-6.39	-	-
			Mid	5.35	4.05	0.73	-2.86	-	-9.75	-9.84
			High	5.87	3.46	0.41	-3.18	-6.61	-	-
UNII 2A	5290	58	Low	5.69	3.20	0.83	-2.73	-5.48	-	-
			Mid	4.79	3.58	0.53	-2.61	-	-8.83	-8.71
			High	5.74	3.24	0.32	-3.01	-5.67	-	-
UNII 2C	5530	106	Low	6.61	4.19	1.74	-1.79	-4.66	-	-
			Mid	5.88	4.34	1.74	-1.66	-	-7.77	-7.87
			High	6.38	4.02	1.53	-1.80	-4.51	-	-
	5610	122	Low	***7.01***	4.45	2.00	-1.57	-4.33	-	-
			Mid	6.18	4.57	1.96	-1.29	-	-7.48	-7.62
			High	6.40	3.65	1.39	-1.69	-4.43	-	-
	5690	138	Low	7.00	4.42	1.89	-1.79	-4.54	-	-
			Mid	5.73	4.32	1.83	-1.63	-	-7.77	-7.83
			High	6.17	3.69	1.14	-1.84	-4.59	-	-
UNII 3	5775	155	Low	***3.79***	1.45	-1.80	-5.13	-8.01	-	-
			Mid	3.56	1.19	-2.07	-5.17	-	-11.51	-11.36
			High	3.19	0.38	-2.57	-5.93	-8.46	-	-

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

Limit(UNII 3) : 30.0 dBm/500kHz

10.5.3 Ant1+Ant2

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	9.70	7.05	4.58	-	-
			Mid	8.72	7.16	-	1.25	1.31
			High	9.54	6.85	4.54	-	-
	5200	40	Low	9.53	6.92	4.35	-	-
			Mid	8.57	7.03	-	0.96	0.94
			High	9.54	6.79	4.48	-	-
	5240	48	Low	9.64	7.06	4.55	-	-
			Mid	8.82	7.10	-	1.36	1.19
			High	9.50	7.01	4.45	-	-
UNII 2a	5260	52	Low	9.62	6.98	4.43	-	-
			Mid	8.67	6.97	-	1.31	1.12
			High	9.48	7.00	4.42	-	-
	5280	56	Low	9.38	6.88	4.30	-	-
			Mid	8.47	6.98	-	1.12	0.92
			High	9.43	6.87	4.29	-	-
	5320	64	Low	9.56	7.13	4.43	-	-
			Mid	8.60	7.18	-	1.22	0.99
			High	9.53	6.85	4.29	-	-
UNII 2c	5500	100	Low	9.38	6.89	4.16	-	-
			Mid	8.26	6.87	-	1.01	0.71
			High	9.18	6.81	4.10	-	-
	5600	120	Low	***10.44***	7.87	5.25	-	-
			Mid	9.27	8.07	-	2.07	1.91
			High	10.19	7.85	5.29	-	-
	5720	144	Low	9.78	7.28	4.64	-	-
			Mid	8.88	7.39	-	1.47	1.33
			High	9.68	7.18	4.57	-	-
UNII 3	5745	149	Low	7.06	4.64	1.93	-	-
			Mid	6.90	4.58	-	-1.32	-1.55
			High	6.95	4.45	1.88	-	-
	5785	157	Low	***7.30***	4.79	1.98	-	-
			Mid	7.22	4.59	-	-1.31	-1.25

HE20	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)				
				26 T	52 T	106 T	242 T	SU
			High	6.97	4.59	1.86	-	-
	5825	165	Low	6.92	4.57	1.79	-	-
			Mid	6.87	4.49	-	-1.54	-1.51
			High	6.80	4.39	1.68	-	-

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

Limit(UNII 3) : 30.0 dBm/500kHz

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	8.73	6.18	3.96	0.62	-	-
			Mid	9.26	6.77	4.11	-	-2.14	-2.07
			High	8.88	6.26	3.97	0.53	-	-
	5230	46	Low	8.83	6.31	3.94	0.47	-	-
			Mid	9.18	6.75	4.18	-	-2.20	-2.18
			High	8.76	6.23	4.00	0.53	-	-
UNII 2a	5270	54	Low	9.16	6.45	4.12	0.78	-	-
			Mid	9.47	6.81	4.34	-	-2.17	-2.16
			High	8.76	6.35	3.98	0.64	-	-
	5310	62	Low	8.96	6.60	4.27	0.89	-	-
			Mid	9.28	6.85	4.27	-	-2.16	-2.11
			High	8.84	6.33	4.13	0.68	-	-
UNII 2c	5510	102	Low	9.13	6.68	4.36	0.88	-	-
			Mid	9.80	7.15	4.51	-	-1.95	-1.82
			High	9.31	6.90	4.49	0.84	-	-
	5590	118	Low	9.51	7.02	4.69	1.10	-	-
			Mid	10.00	7.30	4.83	-	-1.59	-1.59
			High	9.34	6.90	4.52	1.29	-	-
	5710	142	Low	9.65	7.20	4.86	1.39	-	-
			Mid	***10.17***	7.66	5.04	-	-1.39	-1.41
			High	9.41	7.09	4.80	1.32	-	-
UNII 3	5755	151	Low	6.63	3.87	1.51	-1.89	-	-
			Mid	6.70	4.29	1.52	-	-4.70	-4.89
			High	6.20	3.71	1.26	-2.02	-	-
	5795	159	Low	6.59	3.96	1.61	-1.97	-	-
			Mid	***7.17***	4.27	1.75	-	-4.84	-4.76
			High	6.13	3.63	1.42	-2.04	-	-

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

Limit(UNII 3) : 30.0 dBm/500kHz

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	9.85	7.09	4.06	0.61	-2.65	-	-
			Mid	9.15	7.56	4.44	0.82	-	-5.92	-5.92
			High	9.80	7.25	4.23	0.72	-2.65	-	-
UNII 2a	5290	58	Low	9.07	6.64	4.27	0.83	-1.97	-	-
			Mid	8.28	6.81	4.16	0.93	-	-5.27	-5.22
			High	9.04	6.50	4.02	0.68	-1.97	-	-
UNII 2c	5530	106	Low	9.53	7.04	4.61	1.21	-1.60	-	-
			Mid	8.80	7.36	4.83	1.29	-	-4.76	-4.78
			High	9.50	7.07	4.70	1.22	-1.45	-	-
	5610	122	Low	***10.00***	7.35	5.00	1.48	-1.23	-	-
			Mid	9.19	7.69	5.08	1.65	-	-4.49	-4.56
			High	9.71	7.04	4.63	1.39	-1.39	-	-
	5690	138	Low	9.77	7.24	4.75	1.20	-1.48	-	-
			Mid	8.74	7.32	4.78	1.29	-	-4.86	-4.83
			High	9.25	6.76	4.30	1.04	-1.59	-	-
UNII 3	5775	155	Low	***7.46***	4.78	1.88	-1.64	-4.48	-	-
			Mid	7.22	4.63	1.50	-1.64	-	-7.73	-7.78
			High	6.77	4.16	1.23	-2.29	-4.78	-	-

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

Limit(UNII 3) : 30.0 dBm/500kHz

10.6 STRADDLE CHANNEL

10.6.1 26dB Bandwidth

Test Note:

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

10.6.1.1 Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	15.64	4.40
				4	14.20	4.16
				7	14.20	4.36
				8	14.20	5.56
			52 T	37	15.48	4.20
				38	14.16	4.32
				39	14.24	4.60
				40	14.36	5.64
			106 T	53	15.80	4.60
				54	14.40	5.72
			242 T	61	***15.84***	5.88
			SU	-	15.76	***5.92***

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	34.04	4.12
				16	34.04	4.52
				17	34.04	6.04
			52 T	# 37	-	-
				41	34.04	4.20
				43	34.04	4.20
				44	34.12	5.96
			106 T	# 53	-	-
				# 54	-	-
				55	34.28	4.36
				56	34.60	6.12
			242 T	# 61	-	-
				62	34.44	6.12
			484 T	65	36.44	***6.52***
			SU	-	***36.60***	6.28

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	74.04	6.60
				36	74.04	8.36
			52 T	# 37	-	-
				# 45	-	-
				51	74.52	4.36
				52	74.84	7.88
			106 T	# 53	-	-
				# 57	-	-
				59	74.84	5.00
				60	74.68	8.52
			242 T	# 61	-	-
				# 62	-	-
				63	75.64	5.64
				64	75.16	***8.68***
			484 T	# 65	-	-
				66	76.12	8.20
			996 T	67	79.32	7.72
			SU	-	***79.48***	8.04

10.6.1.2 Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	15.52	4.36
				4	14.16	4.32
				7	14.24	4.36
				8	14.16	5.64
			52 T	37	15.48	4.16
				38	14.28	4.44
				39	14.36	4.48
				40	14.32	5.48
			106 T	53	***15.84***	4.68
				54	14.60	5.76
			242 T	61	15.68	5.80
			SU	-	15.76	***5.80***

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	34.04	4.12
				16	34.12	4.28
				17	34.04	5.96
			52 T	# 37	-	-
				41	34.20	4.28
				43	34.12	4.20
				44	34.36	5.96
			106 T	# 53	-	-
				# 54	-	-
				55	34.36	4.36
				56	***34.52***	5.96
			242 T	# 61	-	-
				62	34.36	5.96
			484 T	65	36.52	***6.60***
			SU	-	36.44	6.28

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26dB BW (MHz)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	74.04	6.28
				36	74.20	7.56
			52 T	# 37	-	-
				# 45	-	-
				51	74.36	4.52
				52	74.52	7.72
			106 T	# 53	-	-
				# 57	-	-
				59	75.00	5.00
				60	75.16	***8.84***
			242 T	# 61	-	-
				# 62	-	-
				63	75.48	5.00
				64	75.80	7.72
			484 T	# 65	-	-
				66	76.28	7.72
			996 T	67	***79.96***	7.56
			SU	-	79.48	8.20

10.6.2 6dB Bandwidth

Test Note:

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

10.6.2.1 Ant1

802.11ax(HE20)

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

802.11ax(HE40)

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

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6dB BW (MHz)
					UNII 3
HE80	5690	138	26 T	# 0	-
				# 18	-
				35	2.12
				36	4.20
			52 T	# 37	-
				# 45	-
				51	-
				52	4.20
			106 T	# 53	-
				# 57	-
				59	-
				60	4.20
			242 T	# 61	-
				# 62	-
				63	***1.48***
				64	4.20
			484 T	# 65	-
				66	4.20
			996 T	67	4.20
			SU	-	4.20

10.6.2.2 Ant2

802.11ax(HE20)

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

802.11ax(HE40)

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

802.11ax(HE80)

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

10.6.3 Output Power

Test Note:

1. # : 26dB bandwidth is only located in UNII 2C. Therefore 26dB bandwidth do not overlap.
2. Limit(UNII 1, 2A, 2C) : 23.98 dBm
3. Limit(UNII 3) : 30.00 dBm

10.6.3.1 Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	9.55	-19.11
				4	9.72	-17.91
				7	-6.54	9.55
				8	-10.62	9.44
			52 T	37	9.84	-17.65
				38	9.94	-17.34
				39	9.58	-0.02
				40	-7.76	***9.81***
			106 T	53	***10.37***	-16.79
				54	6.98	7.60
			242 T	61	9.37	4.19
			SU	-	9.09	3.92

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	10.22	-21.35
				16	-0.92	8.94
				17	-10.56	***9.27***
			52 T	# 37	-	-
				41	10.26	-21.54
				43	9.99	-6.75
				44	-3.18	9.18
			106 T	# 53	-	-
				# 54	-	-
				55	***10.60***	-20.71
				56	7.67	6.85
			242 T	# 61	-	-
				62	9.58	3.31
			484 T	65	10.31	0.46
			SU	-	10.25	0.44

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	-0.05	8.04
				36	-11.40	***8.43***
			52 T	# 37	-	-
				# 45	-	-
				51	8.99	-7.81
				52	-5.00	8.28
			106 T	# 53	-	-
				# 57	-	-
				59	9.78	-25.05
				60	6.56	5.81
			242 T	# 61	-	-
				# 62	-	-
				63	***9.84***	-24.64
				64	8.62	2.42
			484 T	# 65	-	-
				66	9.41	-0.49
			996 T	67	9.53	-3.89
			SU	-	9.52	-3.87

10.6.3.2 Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	8.85	-19.48
				4	8.87	-17.59
				7	-7.31	***8.82***
				8	-11.10	8.62
			52 T	37	9.13	-19.53
				38	9.21	-18.15
				39	8.89	-0.83
				40	-9.00	8.76
			106 T	53	***9.79***	-17.23
				54	6.33	6.92
			242 T	61	8.78	3.52
			SU	-	9.12	3.92

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	9.22	-22.20
				16	-1.82	8.11
				17	-11.48	8.30
			52 T	# 37	-	-
				41	9.34	-21.66
				43	8.80	-7.81
				44	-4.09	***8.48***
			106 T	# 53	-	-
				# 54	-	-
				55	***9.88***	-21.50
				56	6.77	5.89
			242 T	# 61	-	-
				62	8.77	2.41
			484 T	65	9.52	-0.22
			SU	-	9.59	-0.17

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	0.36	8.51
				36	-10.66	***8.86***
			52 T	# 37	-	-
				# 45	-	-
				51	8.96	-7.79
				52	-4.58	8.83
			106 T	# 53	-	-
				# 57	-	-
				59	9.81	-25.01
				60	6.96	6.45
			242 T	# 61	-	-
				# 62	-	-
				63	***10.38***	-24.66
				64	9.04	2.92
			484 T	# 65	-	-
				66	9.90	0.05
			996 T	67	10.06	-3.28
			SU	-	10.08	-3.20

10.6.4 Power Spectral Density

Test Note:

1. # : 26dB bandwidth is only located in UNII 2C. Therefore 26dB bandwidth do not overlap.
2. Limit(UNII 1, 2A, 2C) : 11.0 dBm/MHz
3. Limit(UNII 3) : 30.0 dBm/500kHz

10.6.4.1 Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	***7.01***	-24.84
				4	6.23	-19.73
				7	-2.48	4.16
				8	-16.55	***4.45***
			52 T	37	4.58	-20.52
				38	4.48	-22.13
				39	4.71	1.19
				40	-5.07	1.80
			106 T	53	2.19	-22.07
				54	1.98	-1.07
			242 T	61	-1.32	-4.38
			SU	-	-1.65	-4.53

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	***7.65***	-26.25
				16	3.31	***4.43***
				17	-18.84	4.29
			52 T	# 37	-	-
				41	4.89	-22.76
				43	4.70	-6.24
				44	0.56	1.55
			106 T	# 53	-	-
				# 54	-	-
				55	2.12	-26.37
				56	1.94	-1.19
			242 T	# 61	-	-
				62	-1.17	-4.60
			484 T	65	-4.06	-7.47
			SU	-	-4.15	-7.64

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	-0.17	***3.57***
				36	-23.44	3.22
			52 T	# 37	-	-
				# 45	-	-
				51	***3.85***	-6.82
				52	-3.27	0.71
			106 T	# 53	-	-
				# 57	-	-
				59	1.25	-27.57
				60	0.78	-1.95
			242 T	# 61	-	-
				# 62	-	-
				63	-2.13	-28.19
				64	-2.27	-5.81
			484 T	# 65	-	-
				66	-5.11	-8.63
			996 T	67	-8.28	-11.86
			SU	-	-8.31	-11.83

10.6.4.2 Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	***6.42***	-22.43
				4	5.42	-20.58
				7	-3.18	***3.74***
				8	-16.33	3.41
			52 T	37	3.92	-20.72
				38	3.89	-21.76
				39	3.83	0.42
				40	-5.80	0.62
			106 T	53	1.32	-18.01
				54	1.36	-1.45
			242 T	61	-1.82	-5.02
			SU	-	-1.64	-4.63

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	***6.51***	-23.99
				16	2.00	***3.50***
				17	-20.64	3.06
			52 T	# 37	-	-
				41	3.90	-25.40
				43	3.41	-7.59
				44	-0.48	0.60
			106 T	# 53	-	-
				# 54	-	-
				55	1.49	-22.89
				56	1.14	-1.98
			242 T	# 61	-	-
				62	-2.19	-5.44
			484 T	65	-4.77	-8.54
			SU	-	-4.81	-8.30

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	0.14	3.47
				36	-21.40	***3.84***
			52 T	# 37	-	-
				# 45	-	-
				51	***3.63***	-6.55
				52	-2.35	1.03
			106 T	# 53	-	-
				# 57	-	-
				59	1.38	-40.94
				60	1.50	-1.62
			242 T	# 61	-	-
				# 62	-	-
				63	-1.73	-47.38
				64	-2.02	-5.05
			484 T	# 65	-	-
				66	-4.37	-8.02
			996 T	67	-7.67	-11.25
			SU	-	-7.58	-11.42

10.7 RADIATED SPURIOUS EMISSIONS (9 kHz – 1GHz)

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

10.8 RADIATED SPURIOUS EMISSIONS (Above 1 GHz)

10.8.1 802.11ax(HE20)

1. 26 Tone RU 4

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	42.51	9.17	V	51.68	68.20	16.52	PK
15540	39.44	13.42	V	52.86	73.98	21.12	PK
15540	26.13	13.42	V	39.55	53.98	14.43	AV
10360	43.96	9.17	H	53.13	68.20	15.07	PK
15540	40.01	13.42	H	53.43	73.98	20.55	PK
15540	26.22	13.42	H	39.64	53.98	14.34	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	43.06	9.57	V	52.63	68.20	15.57	PK
15600	39.02	13.16	V	52.18	73.98	21.80	PK
15600	25.87	13.16	V	39.03	53.98	14.95	AV
10400	43.79	9.57	H	53.36	68.20	14.84	PK
15600	39.68	13.16	H	52.84	73.98	21.14	PK
15600	25.92	13.16	H	39.08	53.98	14.90	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	42.80	9.94	V	52.74	68.20	15.46	PK
15720	38.26	13.28	V	51.54	73.98	22.44	PK
15720	25.64	13.28	V	38.92	53.98	15.06	AV
10480	43.55	9.94	H	53.49	68.20	14.71	PK
15720	39.62	13.28	H	52.90	73.98	21.08	PK
15720	25.71	13.28	H	38.99	53.98	14.99	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	43.81	9.96	V	53.77	68.20	14.43	PK
15780	39.98	13.29	V	53.27	73.98	20.71	PK
15780	26.55	13.29	V	39.84	53.98	14.14	AV
10520	42.91	9.96	H	52.87	68.20	15.33	PK
15780	39.10	13.29	H	52.39	73.98	21.59	PK
15780	26.36	13.29	H	39.65	53.98	14.33	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	42.75	10.34	V	53.09	73.98	20.89	PK
10600	27.81	10.34	V	38.15	53.98	15.83	AV
15900	41.18	13.19	V	54.37	73.98	19.61	PK
15900	28.25	13.19	V	41.44	53.98	12.54	AV
10600	41.17	10.34	H	51.51	73.98	22.47	PK
10600	28.83	10.34	H	39.17	53.98	14.81	AV
15900	40.02	13.19	H	53.21	73.98	20.77	PK
15900	28.11	13.19	H	41.30	53.98	12.68	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	42.54	10.30	V	52.84	73.98	21.14	PK
10640	28.98	10.30	V	39.28	53.98	14.70	AV
15960	40.19	12.29	V	52.48	73.98	21.50	PK
15960	27.49	12.29	V	39.78	53.98	14.20	AV
10640	42.47	10.30	H	52.77	73.98	21.21	PK
10640	29.04	10.30	H	39.34	53.98	14.64	AV
15960	39.60	12.29	H	51.89	73.98	22.09	PK
15960	27.22	12.29	H	39.51	53.98	14.47	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	41.63	11.12	V	52.75	73.98	21.23	PK
11000	29.70	11.12	V	40.82	53.98	13.16	AV
16500	41.33	12.50	V	53.83	68.20	14.37	PK
11000	42.55	11.12	H	53.67	73.98	20.31	PK
11000	30.03	11.12	H	41.15	53.98	12.83	AV
16500	41.70	12.50	H	54.20	68.20	14.00	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	41.68	11.12	V	52.80	73.98	21.18	PK
11200	28.42	11.12	V	39.54	53.98	14.44	AV
16800	40.58	13.64	V	54.22	68.20	13.98	PK
11200	41.89	11.12	H	53.01	73.98	20.97	PK
11200	28.55	11.12	H	39.67	53.98	14.31	AV
16800	40.92	13.64	H	54.56	68.20	13.64	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	40.43	11.26	V	51.69	73.98	22.29	PK
11440	27.91	11.26	V	39.17	53.98	14.81	AV
17160	40.10	14.70	V	54.80	68.20	13.40	PK
11440	41.48	11.26	H	52.74	73.98	21.24	PK
11440	28.05	11.26	H	39.31	53.98	14.67	AV
17160	41.35	14.70	H	56.05	68.20	12.15	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	41.99	11.54	V	53.53	73.98	20.45	PK
11490	28.48	11.54	V	40.02	53.98	13.96	AV
17235	40.33	15.28	V	55.61	68.20	12.59	PK
11490	41.36	11.54	H	52.90	73.98	21.08	PK
11490	28.11	11.54	H	39.65	53.98	14.33	AV
17235	39.38	15.28	H	54.66	68.20	13.54	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	41.98	10.94	V	52.92	73.98	21.06	PK
11570	28.39	10.94	V	39.33	53.98	14.65	AV
17355	41.48	15.94	V	57.42	68.20	10.78	PK
11570	41.26	10.94	H	52.20	73.98	21.78	PK
11570	28.35	10.94	H	39.29	53.98	14.69	AV
17355	39.98	15.94	H	55.92	68.20	12.28	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	42.09	10.39	V	52.48	73.98	21.50	PK
11650	28.54	10.39	V	38.93	53.98	15.05	AV
17475	40.75	17.24	V	57.99	68.20	10.21	PK
11650	41.04	10.39	H	51.43	73.98	22.55	PK
11650	28.38	10.39	H	38.77	53.98	15.21	AV
17475	39.78	17.24	H	57.02	68.20	11.18	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	42.79	9.17	V	51.96	68.20	16.24	PK
15540	39.84	13.42	V	53.26	73.98	20.72	PK
15540	25.62	13.42	V	39.04	53.98	14.94	AV
10360	43.21	9.17	H	52.38	68.20	15.82	PK
15540	40.15	13.42	H	53.57	73.98	20.41	PK
15540	26.80	13.42	H	40.22	53.98	13.76	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	42.85	9.57	V	52.42	68.20	15.78	PK
15600	38.96	13.16	V	52.12	73.98	21.86	PK
15600	26.01	13.16	V	39.17	53.98	14.81	AV
10400	43.44	9.57	H	53.01	68.20	15.19	PK
15600	39.64	13.16	H	52.80	73.98	21.18	PK
15600	26.44	13.16	H	39.60	53.98	14.38	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	43.27	9.94	V	53.21	68.20	14.99	PK
15720	39.44	13.28	V	52.72	73.98	21.26	PK
15720	26.13	13.28	V	39.41	53.98	14.57	AV
10480	43.89	9.94	H	53.83	68.20	14.37	PK
15720	40.04	13.28	H	53.32	73.98	20.66	PK
15720	26.62	13.28	H	39.90	53.98	14.08	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	42.67	9.96	V	52.63	68.20	15.57	PK
15780	39.68	13.29	V	52.97	73.98	21.01	PK
15780	26.26	13.29	V	39.55	53.98	14.43	AV
10520	43.23	9.96	H	53.19	68.20	15.01	PK
15780	40.13	13.29	H	53.42	73.98	20.56	PK
15780	26.71	13.29	H	40.00	53.98	13.98	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	41.94	10.34	V	52.28	73.98	21.70	PK
10600	28.31	10.34	V	38.65	53.98	15.33	AV
15900	39.45	13.19	V	52.64	73.98	21.34	PK
15900	26.40	13.19	V	39.59	53.98	14.39	AV
10600	42.28	10.34	H	52.62	73.98	21.36	PK
10600	28.96	10.34	H	39.30	53.98	14.68	AV
15900	40.11	13.19	H	53.30	73.98	20.68	PK
15900	27.17	13.19	H	40.36	53.98	13.62	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	41.67	10.30	V	51.97	73.98	22.01	PK
10640	28.21	10.30	V	38.51	53.98	15.47	AV
15960	39.86	12.29	V	52.15	73.98	21.83	PK
15960	26.57	12.29	V	38.86	53.98	15.12	AV
10640	42.19	10.30	H	52.49	73.98	21.49	PK
10640	28.77	10.30	H	39.07	53.98	14.91	AV
15960	40.55	12.29	H	52.84	73.98	21.14	PK
15960	27.19	12.29	H	39.48	53.98	14.50	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	41.49	11.12	V	52.61	73.98	21.37	PK
11000	28.37	11.12	V	39.49	53.98	14.49	AV
16500	40.96	12.50	V	53.46	68.20	14.74	PK
11000	41.32	11.12	H	52.44	73.98	21.54	PK
11000	28.17	11.12	H	39.29	53.98	14.69	AV
16500	40.85	12.50	H	53.35	68.20	14.85	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	40.99	11.12	V	52.11	73.98	21.87	PK
11200	28.30	11.12	V	39.42	53.98	14.56	AV
16800	40.32	13.64	V	53.96	68.20	14.24	PK
11200	41.50	11.12	H	52.62	73.98	21.36	PK
11200	28.46	11.12	H	39.58	53.98	14.40	AV
16800	40.73	13.64	H	54.37	68.20	13.83	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	40.48	11.26	V	51.74	73.98	22.24	PK
11440	27.65	11.26	V	38.91	53.98	15.07	AV
17160	40.22	14.70	V	54.92	68.20	13.28	PK
11440	41.59	11.26	H	52.85	73.98	21.13	PK
11440	27.74	11.26	H	39.00	53.98	14.98	AV
17160	40.43	14.70	H	55.13	68.20	13.07	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	40.72	11.54	V	52.26	73.98	21.72	PK
11490	28.61	11.54	V	40.15	53.98	13.83	AV
17235	39.81	15.28	V	55.09	68.20	13.11	PK
11490	41.79	11.54	H	53.33	73.98	20.65	PK
11490	28.77	11.54	H	40.31	53.98	13.67	AV
17235	41.18	15.28	H	56.46	68.20	11.74	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	41.69	10.94	V	52.63	73.98	21.35	PK
11570	28.29	10.94	V	39.23	53.98	14.75	AV
17355	40.25	15.94	V	56.19	68.20	12.01	PK
11570	42.26	10.94	H	53.20	73.98	20.78	PK
11570	28.61	10.94	H	39.55	53.98	14.43	AV
17355	40.67	15.94	H	56.61	68.20	11.59	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	41.20	10.39	V	51.59	73.98	22.39	PK
11650	28.58	10.39	V	38.97	53.98	15.01	AV
17475	39.59	17.24	V	56.83	68.20	11.37	PK
11650	42.91	10.39	H	53.30	73.98	20.68	PK
11650	28.67	10.39	H	39.06	53.98	14.92	AV
17475	41.02	17.24	H	58.26	68.20	9.94	PK

Note:

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

In order to simplify the report, We only have attached RSE result of worst channel.

10.8.2 802.11ax(HE40)

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	44.08	9.23	V	53.31	68.20	14.89	PK
15570	40.46	13.21	V	53.67	73.98	20.31	PK
15570	26.68	13.21	V	39.89	53.98	14.09	AV
10380	42.60	9.23	H	51.83	68.20	16.37	PK
15570	39.35	13.21	H	52.56	73.98	21.42	PK
15570	26.44	13.21	H	39.65	53.98	14.33	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	42.81	9.83	V	52.64	68.20	15.56	PK
15690	39.39	13.19	V	52.58	73.98	21.40	PK
15690	26.17	13.19	V	39.36	53.98	14.62	AV
10460	42.75	9.83	H	52.58	68.20	15.62	PK
15690	38.99	13.19	H	52.18	73.98	21.80	PK
15690	26.01	13.19	H	39.20	53.98	14.78	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	42.86	9.84	V	52.70	68.20	15.50	PK
15810	40.89	13.30	V	54.19	73.98	19.79	PK
15810	27.27	13.30	V	40.57	53.98	13.41	AV
10540	42.09	9.84	H	51.93	68.20	16.27	PK
15810	39.89	13.30	H	53.19	73.98	20.79	PK
15810	27.17	13.30	H	40.47	53.98	13.51	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	42.04	10.22	V	52.26	73.98	21.72	PK
10620	28.85	10.22	V	39.07	53.98	14.91	AV
15930	40.19	12.71	V	52.90	73.98	21.08	PK
15930	27.34	12.71	V	40.05	53.98	13.93	AV
10620	40.93	10.22	H	51.15	73.98	22.83	PK
10620	28.75	10.22	H	38.97	53.98	15.01	AV
15930	39.55	12.71	H	52.26	73.98	21.72	PK
15930	27.23	12.71	H	39.94	53.98	14.04	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	42.06	11.18	V	53.24	73.98	20.74	PK
11020	28.77	11.18	V	39.95	53.98	14.03	AV
16530	41.15	12.80	V	53.95	68.20	14.25	PK
11020	41.29	11.18	H	52.47	73.98	21.51	PK
11020	28.51	11.18	H	39.69	53.98	14.29	AV
16530	40.63	12.80	H	53.43	68.20	14.77	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5590 MHz
Channel No.	118 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	41.88	10.89	V	52.77	73.98	21.21	PK
11180	28.62	10.89	V	39.51	53.98	14.47	AV
16770	41.02	13.76	V	54.78	68.20	13.42	PK
11180	40.40	10.89	H	51.29	73.98	22.69	PK
11180	28.40	10.89	H	39.29	53.98	14.69	AV
16770	39.04	13.76	H	52.80	68.20	15.40	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	41.25	11.29	V	52.54	73.98	21.44	PK
11420	28.21	11.29	V	39.50	53.98	14.48	AV
17130	40.54	14.54	V	55.08	68.20	13.12	PK
11420	41.01	11.29	H	52.30	73.98	21.68	PK
11420	28.02	11.29	H	39.31	53.98	14.67	AV
17130	40.18	14.54	H	54.72	68.20	13.48	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	41.90	11.45	V	53.35	73.98	20.63	PK
11510	28.91	11.45	V	40.36	53.98	13.62	AV
17265	40.68	15.19	V	55.87	68.20	12.33	PK
11510	41.17	11.45	H	52.62	73.98	21.36	PK
11510	28.65	11.45	H	40.10	53.98	13.88	AV
17265	39.99	15.19	H	55.18	68.20	13.02	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	42.08	10.48	V	52.56	73.98	21.42	PK
11590	28.64	10.48	V	39.12	53.98	14.86	AV
17385	40.92	16.15	V	57.07	68.20	11.13	PK
11590	41.39	10.48	H	51.87	73.98	22.11	PK
11590	28.39	10.48	H	38.87	53.98	15.11	AV
17385	39.58	16.15	H	55.73	68.20	12.47	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	43.69	9.23	V	52.92	68.20	15.28	PK
15570	39.73	13.21	V	52.94	73.98	21.04	PK
15570	26.63	13.21	V	39.84	53.98	14.14	AV
10380	42.13	9.23	H	51.36	68.20	16.84	PK
15570	38.61	13.21	H	51.82	73.98	22.16	PK
15570	26.41	13.21	H	39.62	53.98	14.36	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	43.57	9.83	V	53.40	68.20	14.80	PK
15690	38.91	13.19	V	52.10	73.98	21.88	PK
15690	26.28	13.19	V	39.47	53.98	14.51	AV
10460	42.81	9.83	H	52.64	68.20	15.56	PK
15690	38.38	13.19	H	51.57	73.98	22.41	PK
15690	25.99	13.19	H	39.18	53.98	14.80	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	43.32	9.84	V	53.16	68.20	15.04	PK
15810	40.54	13.30	V	53.84	73.98	20.14	PK
15810	27.32	13.30	V	40.62	53.98	13.36	AV
10540	41.78	9.84	H	51.62	68.20	16.58	PK
15810	40.04	13.30	H	53.34	73.98	20.64	PK
15810	27.06	13.30	H	40.36	53.98	13.62	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	42.32	10.22	V	52.54	73.98	21.44	PK
10620	28.92	10.22	V	39.14	53.98	14.84	AV
15930	40.61	12.71	V	53.32	73.98	20.66	PK
15930	27.34	12.71	V	40.05	53.98	13.93	AV
10620	40.90	10.22	H	51.12	73.98	22.86	PK
10620	28.67	10.22	H	38.89	53.98	15.09	AV
15930	39.55	12.71	H	52.26	73.98	21.72	PK
15930	27.16	12.71	H	39.87	53.98	14.11	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	41.92	11.18	V	53.10	73.98	20.88	PK
11020	28.70	11.18	V	39.88	53.98	14.10	AV
16530	41.24	12.80	V	54.04	68.20	14.16	PK
11020	41.13	11.18	H	52.31	73.98	21.67	PK
11020	28.62	11.18	H	39.80	53.98	14.18	AV
16530	41.10	12.80	H	53.90	68.20	14.30	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5590 MHz
Channel No.	118 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	41.61	10.89	V	52.50	73.98	21.48	PK
11180	28.67	10.89	V	39.56	53.98	14.42	AV
16770	40.89	13.76	V	54.65	68.20	13.55	PK
11180	40.06	10.89	H	50.95	73.98	23.03	PK
11180	28.42	10.89	H	39.31	53.98	14.67	AV
16770	40.27	13.76	H	54.03	68.20	14.17	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	41.03	11.29	V	52.32	73.98	21.66	PK
11420	28.12	11.29	V	39.41	53.98	14.57	AV
17130	40.92	14.54	V	55.46	68.20	12.74	PK
11420	40.95	11.29	H	52.24	73.98	21.74	PK
11420	27.95	11.29	H	39.24	53.98	14.74	AV
17130	40.46	14.54	H	55.00	68.20	13.20	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	41.76	11.45	V	53.21	73.98	20.77	PK
11510	28.80	11.45	V	40.25	53.98	13.73	AV
17265	40.72	15.19	V	55.91	68.20	12.29	PK
11510	40.10	11.45	H	51.55	73.98	22.43	PK
11510	28.61	11.45	H	40.06	53.98	13.92	AV
17265	40.46	15.19	H	55.65	68.20	12.55	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	42.08	10.48	V	52.56	73.98	21.42	PK
11590	28.57	10.48	V	39.05	53.98	14.93	AV
17385	40.72	16.15	V	56.87	68.20	11.33	PK
11590	40.93	10.48	H	51.41	73.98	22.57	PK
11590	28.30	10.48	H	38.78	53.98	15.20	AV
17385	39.24	16.15	H	55.39	68.20	12.81	PK

Note:

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

In order to simplify the report, We only have attached RSE result of worst channel.

10.8.3 802.11ax(HE80)

1. 26 Tone RU 18

Band :	UNII 1
Operation Mode:	802.11 ac(VHT80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	43.85	9.19	V	53.04	68.20	15.16	PK
15630	40.23	13.57	V	53.80	73.98	20.18	PK
15630	26.77	13.57	V	40.34	53.98	13.64	AV
10420	42.70	9.19	H	51.89	68.20	16.31	PK
15630	38.28	13.57	H	51.85	73.98	22.13	PK
15630	26.53	13.57	H	40.10	53.98	13.88	AV

Band :	UNII 2A
Operation Mode:	802.11 ac(VHT80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	43.25	10.35	V	53.60	68.20	14.60	PK
15870	40.65	13.05	V	53.70	73.98	20.28	PK
15870	27.86	13.05	V	40.91	53.98	13.07	AV
10580	43.11	10.35	H	53.46	68.20	14.74	PK
15870	40.19	13.05	H	53.24	73.98	20.74	PK
15870	27.56	13.05	H	40.61	53.98	13.37	AV

Band :	UNII 2C
Operation Mode:	802.11 ac(VHT80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	42.50	10.95	V	53.45	73.98	20.53	PK
11060	29.01	10.95	V	39.96	53.98	14.02	AV
16590	41.18	12.73	V	53.91	68.20	14.29	PK
11060	41.62	10.95	H	52.57	73.98	21.41	PK
11060	28.84	10.95	H	39.79	53.98	14.19	AV
16590	40.93	12.73	H	53.66	68.20	14.54	PK

Band :	UNII 2C
Operation Mode:	802.11 ac(VHT80)
Transfer MCS Index:	MCS0
Operating Frequency	5610 MHz
Channel No.	122 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11220	42.28	10.82	V	53.10	73.98	20.88	PK
11220	29.09	10.82	V	39.91	53.98	14.07	AV
16830	41.27	14.47	V	55.74	68.20	12.46	PK
11220	41.91	10.82	H	52.73	73.98	21.25	PK
11220	28.88	10.82	H	39.70	53.98	14.28	AV
16830	40.03	14.47	H	54.50	68.20	13.70	PK

Band :	UNII 2C
Operation Mode:	802.11 ac(VHT80)
Transfer MCS Index:	MCS0
Operating Frequency	5690 MHz
Channel No.	138 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	41.77	11.38	V	53.15	73.98	20.83	PK
11380	28.73	11.38	V	40.11	53.98	13.87	AV
17070	40.94	14.66	V	55.60	68.20	12.60	PK
11380	41.06	11.38	H	52.44	73.98	21.54	PK
11380	28.62	11.38	H	40.00	53.98	13.98	AV
17070	39.98	14.66	H	54.64	68.20	13.56	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5775 MHz
Channel No.	155 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	41.89	11.00	V	52.89	73.98	21.09	PK
11550	28.28	11.00	V	39.28	53.98	14.70	AV
17325	40.04	15.71	V	55.75	68.20	12.45	PK
11550	43.03	11.00	H	54.03	73.98	19.95	PK
11550	28.89	11.00	H	39.89	53.98	14.09	AV
17325	40.65	15.71	H	56.36	68.20	11.84	PK

2. 996 Tone RU 67

Band :	UNII 1
Operation Mode:	802.11 ac(VHT80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	43.92	9.19	V	53.11	68.20	15.09	PK
15630	39.38	13.57	V	52.95	73.98	21.03	PK
15630	26.55	13.57	V	40.12	53.98	13.86	AV
10420	43.69	9.19	H	52.88	68.20	15.32	PK
15630	38.55	13.57	H	52.12	73.98	21.86	PK
15630	26.34	13.57	H	39.91	53.98	14.07	AV

Band :	UNII 2A
Operation Mode:	802.11 ac(VHT80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	42.52	10.35	V	52.87	68.20	15.33	PK
15870	40.80	13.05	V	53.85	73.98	20.13	PK
15870	27.64	13.05	V	40.69	53.98	13.29	AV
10580	42.03	10.35	H	52.38	68.20	15.82	PK
15870	40.57	13.05	H	53.62	73.98	20.36	PK
15870	27.46	13.05	H	40.51	53.98	13.47	AV

Band :	UNII 2C
Operation Mode:	802.11 ac(VHT80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	41.85	10.95	V	52.80	73.98	21.18	PK
11060	28.72	10.95	V	39.67	53.98	14.31	AV
16590	40.72	12.73	V	53.45	68.20	14.75	PK
11060	40.90	10.95	H	51.85	73.98	22.13	PK
11060	28.66	10.95	H	39.61	53.98	14.37	AV
16590	39.94	12.73	H	52.67	68.20	15.53	PK

Band :	UNII 2C
Operation Mode:	802.11 ac(VHT80)
Transfer MCS Index:	MCS0
Operating Frequency	5610 MHz
Channel No.	122 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11220	41.82	10.82	V	52.64	73.98	21.34	PK
11220	28.82	10.82	V	39.64	53.98	14.34	AV
16830	41.45	14.47	V	55.92	68.20	12.28	PK
11220	40.83	10.82	H	51.65	73.98	22.33	PK
11220	28.60	10.82	H	39.42	53.98	14.56	AV
16830	41.04	14.47	H	55.51	68.20	12.69	PK

Band :	UNII 2C
Operation Mode:	802.11 ac(VHT80)
Transfer MCS Index:	MCS0
Operating Frequency	5690 MHz
Channel No.	138 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	42.01	11.38	V	53.39	73.98	20.59	PK
11380	28.40	11.38	V	39.78	53.98	14.20	AV
17070	40.93	14.66	V	55.59	68.20	12.61	PK
11380	40.84	11.38	H	52.22	73.98	21.76	PK
11380	28.26	11.38	H	39.64	53.98	14.34	AV
17070	39.85	14.66	H	54.51	68.20	13.69	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5775 MHz
Channel No.	155 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	42.18	11.00	V	53.18	73.98	20.80	PK
11550	28.69	11.00	V	39.69	53.98	14.29	AV
17325	40.45	15.71	V	56.16	68.20	12.04	PK
11550	41.92	11.00	H	52.92	73.98	21.06	PK
11550	28.37	11.00	H	39.37	53.98	14.61	AV
17325	39.39	15.71	H	55.10	68.20	13.10	PK

Note:

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

In order to simplify the report, We only have attached RSE result of worst channel.

10.8.4 DBS Mode

Test case1

ANT1 802.11b ch.11 1Mbps & ANT2 802.11a ch.48 6Mbps

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	43.54	9.94	V	53.48	68.20	14.72	PK
15720	39.10	13.28	V	52.38	73.98	21.60	PK
15720	25.71	13.28	V	38.99	53.98	14.99	AV
10480	43.86	9.94	H	53.80	68.20	14.40	PK
15720	39.36	13.28	H	52.64	73.98	21.34	PK
15720	25.82	13.28	H	39.10	53.98	14.88	AV

Test case2

ANT1 802.11a ch.157 6Mbps & ANT2 802.11b ch.11 1Mbps

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	41.74	10.94	V	52.68	73.98	21.30	PK
11570	27.95	10.94	V	38.89	53.98	15.09	AV
17355	39.19	15.94	V	55.13	68.20	13.07	PK
11570	42.01	10.94	H	52.95	73.98	21.03	PK
11570	28.04	10.94	H	38.98	53.98	15.00	AV
17355	41.11	15.94	H	57.05	68.20	11.15	PK

Test case3-1

ANT ALL 802.11a ch.48 6Mbps & ANT ALL 802.11b ch.6 6Mbps

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	42.69	9.94	V	52.63	68.20	15.57	PK
15720	39.02	13.28	V	52.30	73.98	21.68	PK
15720	25.78	13.28	V	39.06	53.98	14.92	AV
10480	43.91	9.94	H	53.85	68.20	14.35	PK
15720	40.45	13.28	H	53.73	73.98	20.25	PK
15720	25.86	13.28	H	39.14	53.98	14.84	AV

Test case3-2

ANT ALL 802.11ax ch.100 MCS0 & ANT ALL 802.11ax ch.11 MCS0

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	41.80	11.12	V	52.92	73.98	21.06	PK
11000	28.61	11.12	V	39.73	53.98	14.25	AV
16500	41.97	12.50	V	54.47	68.20	13.73	PK
11000	40.70	11.12	H	51.82	73.98	22.16	PK
11000	28.52	11.12	H	39.64	53.98	14.34	AV
16500	40.69	12.50	H	53.19	68.20	15.01	PK

10.8.5 Non-DBS Mode

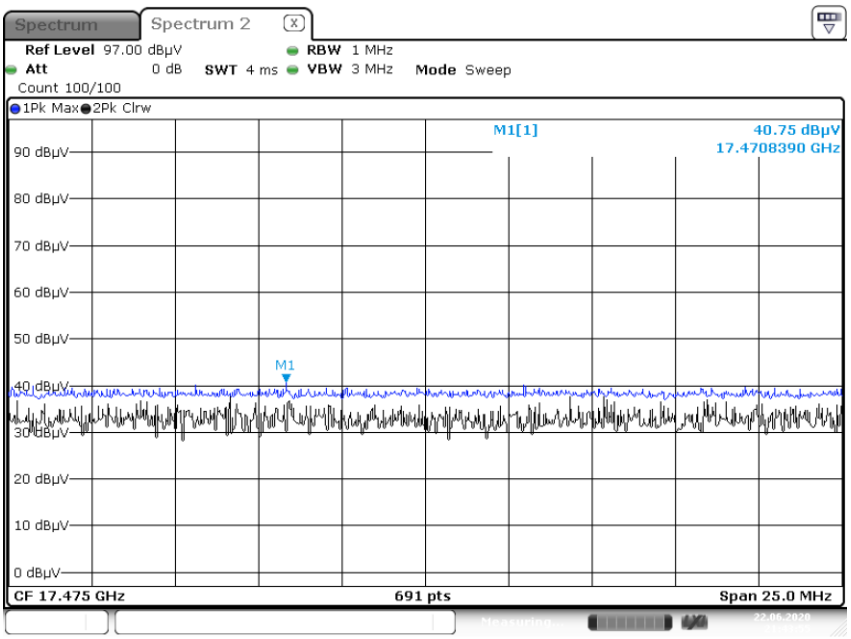
Test case4

5G ANT ALL 802.11a ch.165 6Mbps & BT ANT2 ch.0 DH5 (GFSK)

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	42.11	10.39	V	52.50	73.98	21.48	PK
11650	28.66	10.39	V	39.05	53.98	14.93	AV
17475	40.51	17.24	V	57.75	68.20	10.45	PK
11650	41.39	10.39	H	51.78	73.98	22.20	PK
11650	28.46	10.39	H	38.85	53.98	15.13	AV
17475	39.57	17.24	H	56.81	68.20	11.39	PK

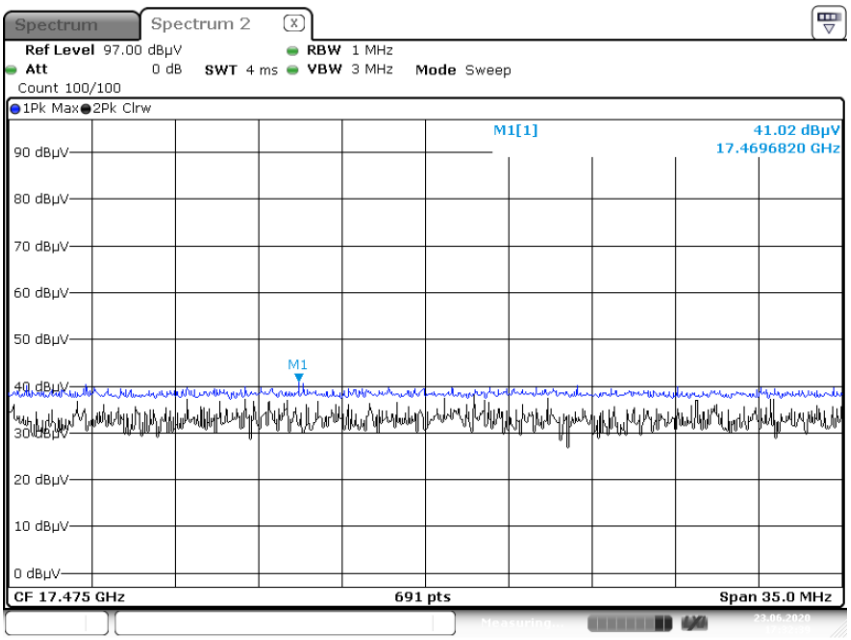
▣ Test Plots

Peak Reading (802.11ax(HE20), Ch.165 3rd Harmonic, Y-V) - 26 Tones RU Index 4



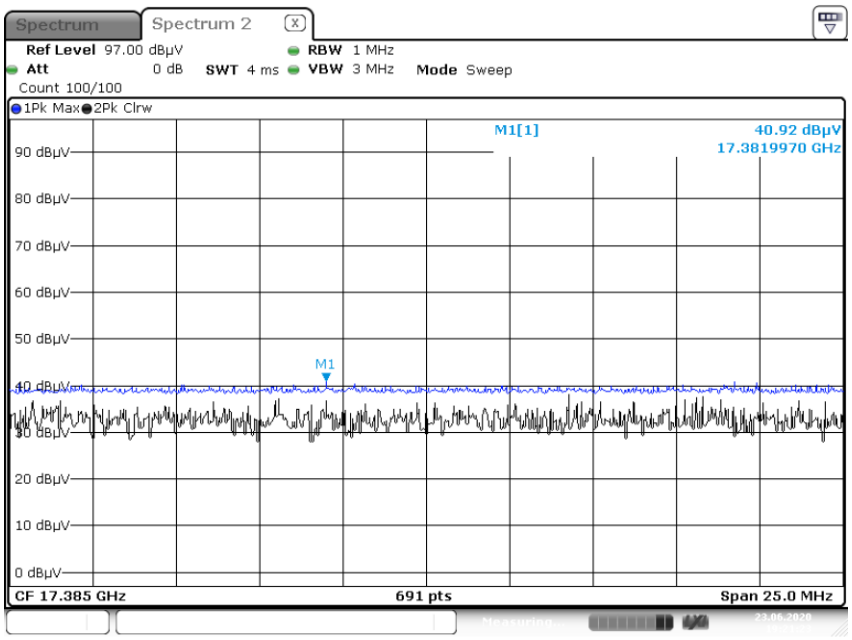
Date: 22.JUN.2020 21:43:56

Peak Reading (802.11ax(HE20), Ch.165 3rd Harmonic, Y-H) - 242 Tones RU Index 61



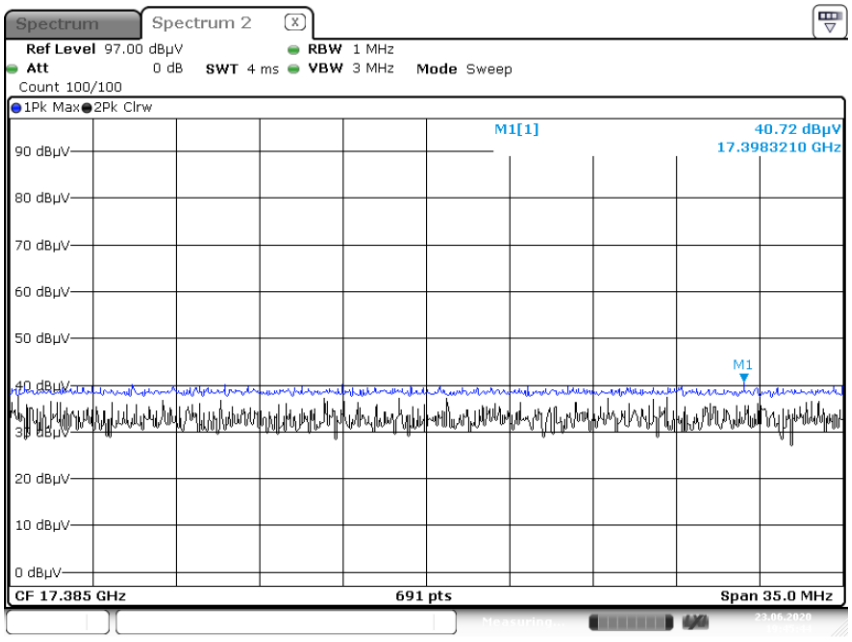
Date: 23.JUN.2020 17:32:39

Peak Reading (802.11ax(HE40), Ch.159 3rd Harmonic, Y-V) - 26 Tones RU Index 9



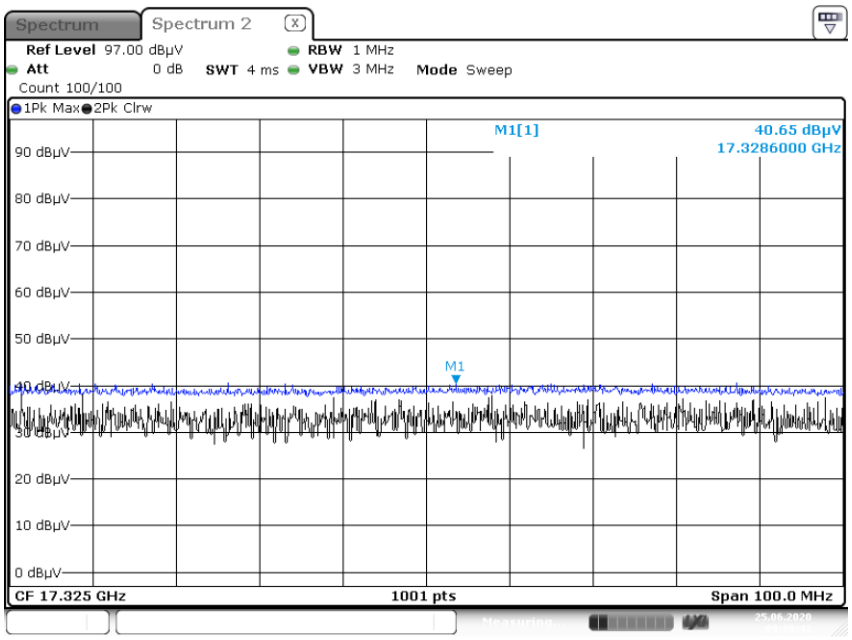
Date: 23.JUN.2020 19:21:24

Peak Reading (802.11ax(HE40), Ch.159 3rd Harmonic, Y-V) - 484 Tones RU Index 65

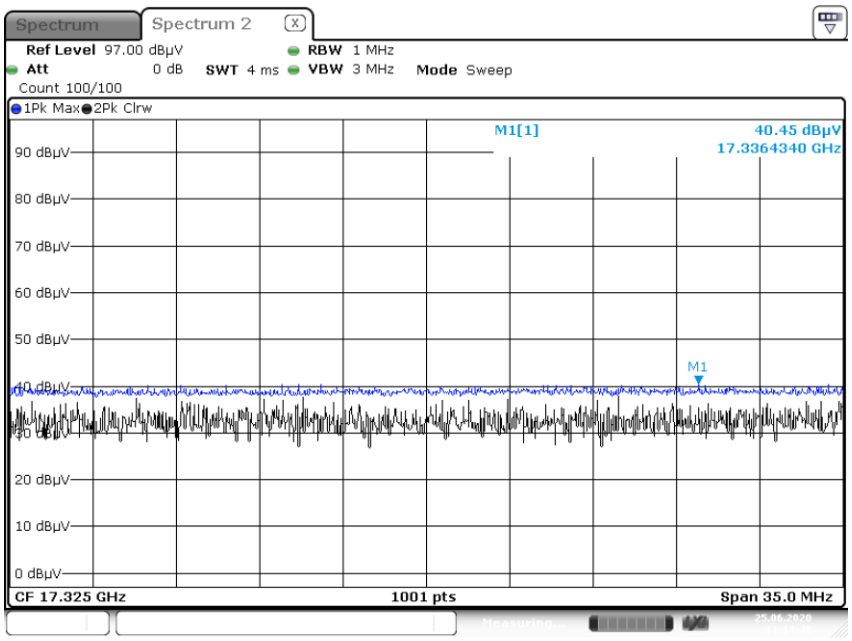


Date: 23.JUN.2020 19:45:44

Peak Reading (802.11ax(HE80), Ch.155 3rd Harmonic, H) - 26 Tones RU Index 18



Peak Reading (802.11ax(HE80), Ch.155 3rd Harmonic, V) - 996 Tones RU Index 67

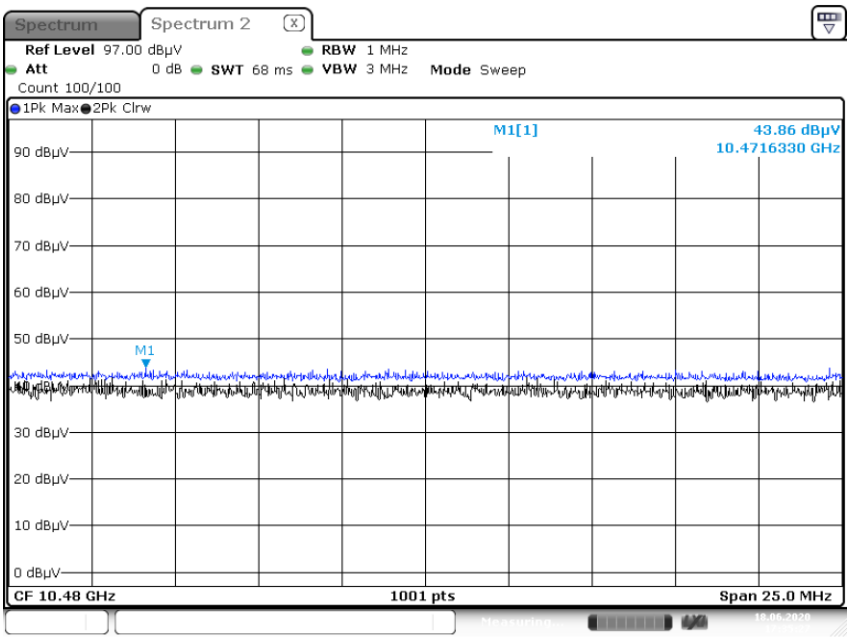


Note:

Only the worst case plots for Radiated Spurious Emissions.

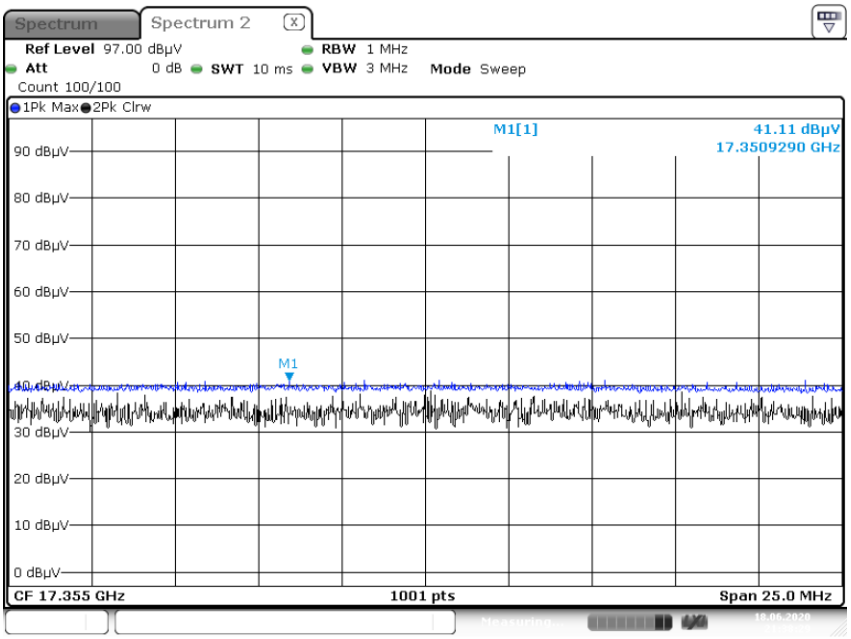
▣ Test Plots (DBS Mode)

[Case1] 2nd, X-H, Peak Reading



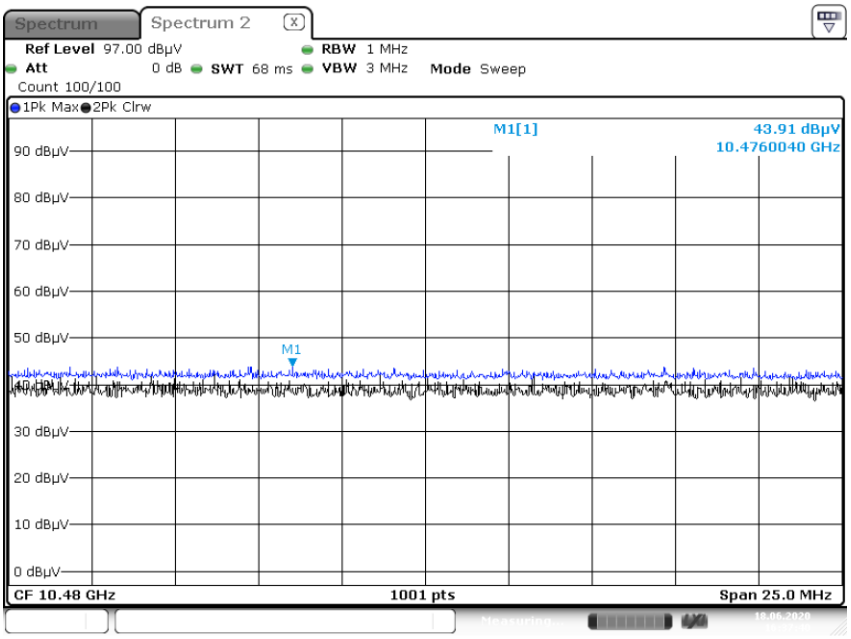
Date: 18.JUN.2020 17:35:27

[Case2] 3rd, X-H, Peak Reading



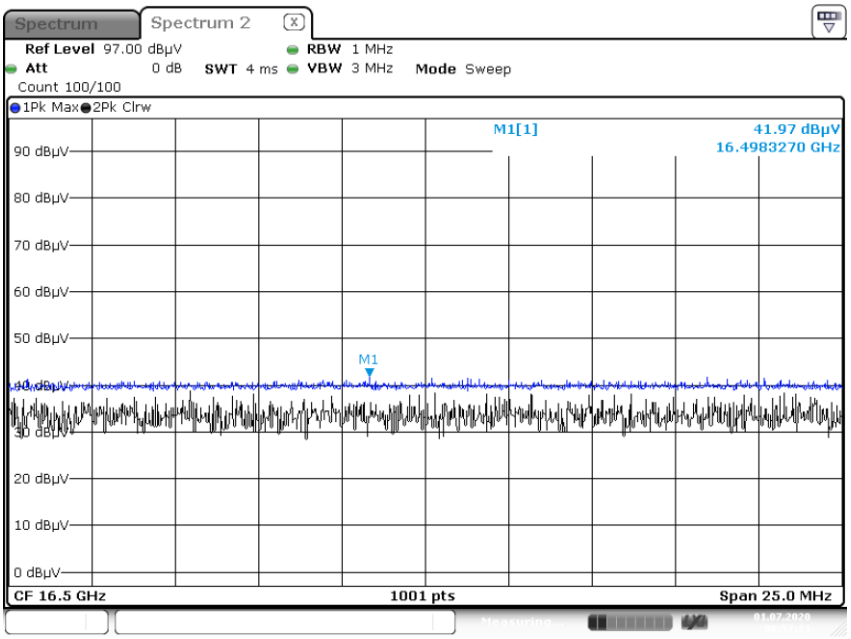
Date: 18.JUN.2020 21:38:29

[Case3-1] 2nd, X-H, Peak Reading



Date: 18.JUN.2020 16:37:40

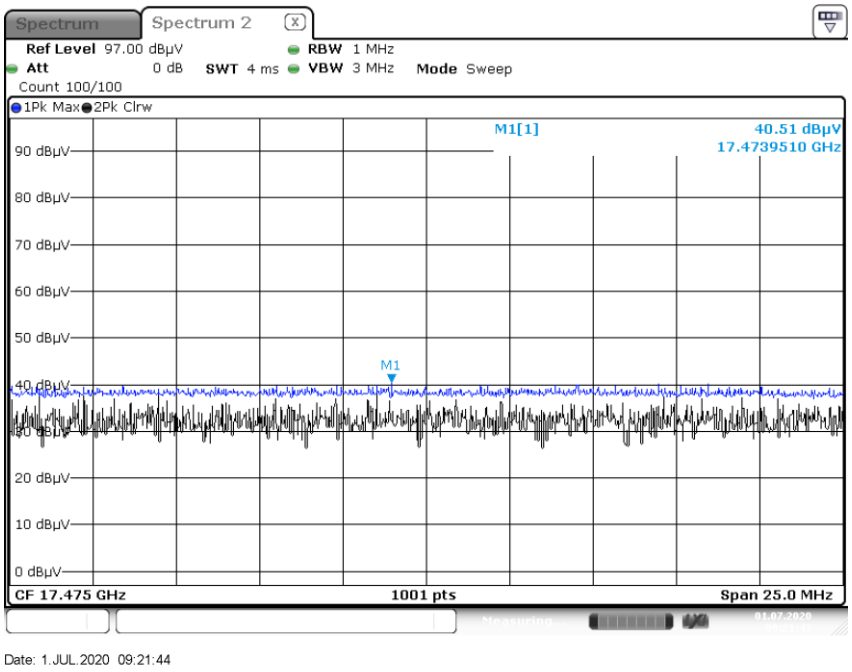
[Case3-2] 3rd, Y-V, Peak Reading



Date: 1.JUL.2020 08:57:21

▣ Test Plots (Non-DBS Mode)

[Case4] 3rd , Y-V, Peak Reading



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9 RADIATED RESTRICTED BAND EDGE

10.9.1 802.11ax(HE20)

1. 26 Tone

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	43.92	8.02	H	51.94	73.98	22.04	PK
5150	31.36	8.02	H	39.38	53.98	14.60	AV
5150	43.58	8.02	V	51.6	73.98	22.38	PK
5150	31.17	8.02	V	39.19	53.98	14.79	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	44.48	7.87	H	52.35	73.98	21.63	PK
5350	30.99	7.87	H	38.86	53.98	15.12	AV
5350	43.21	7.87	V	51.08	73.98	22.90	PK
5350	30.55	7.87	V	38.42	53.98	15.56	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	43.81	8.35	H	52.16	73.98	21.82	PK
5460	31.12	8.35	H	39.47	53.98	14.51	AV
5470	44.94	8.31	H	53.25	68.20	14.95	PK
5460	43.66	8.35	V	52.01	73.98	21.97	PK
5460	31.08	8.31	V	39.39	53.98	14.59	AV
5470	43.23	8.31	V	51.54	68.20	16.66	PK

2. 242 Tone

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	44.72	8.02	H	52.74	73.98	21.24	PK
5150	31.49	8.02	H	39.51	53.98	14.47	AV
5150	44.06	8.02	V	52.08	73.98	21.90	PK
5150	31.43	8.02	V	39.45	53.98	14.53	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	45.64	7.87	H	53.51	73.98	20.47	PK
5350	31.25	7.87	H	39.12	53.98	14.86	AV
5350	43.57	7.87	V	51.44	73.98	22.54	PK
5350	30.99	7.87	V	38.86	53.98	15.12	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	44.66	8.35	H	53.01	73.98	20.97	PK
5460	30.94	8.35	H	39.29	53.98	14.69	AV
5470	45.95	8.31	H	54.26	68.20	13.94	PK
5460	43.51	8.35	V	51.86	73.98	22.12	PK
5460	30.82	8.31	V	39.13	53.98	14.85	AV
5470	43.21	8.31	V	51.52	68.20	16.68	PK

10.9.2 802.11ax(HE40)

1. 26 Tone

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	44.19	8.02	H	52.21	73.98	21.77	PK
5150	31.23	8.02	H	39.25	53.98	14.73	AV
5150	43.22	8.02	V	51.24	73.98	22.74	PK
5150	30.97	8.02	V	38.99	53.98	14.99	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	17

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	52.60	7.87	H	60.47	73.98	13.51	PK
5350	31.68	7.87	H	39.55	53.98	14.43	AV
5350	50.51	7.87	V	58.38	73.98	15.60	PK
5350	31.16	7.87	V	39.03	53.98	14.95	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	44.16	8.35	H	52.51	73.98	21.47	PK
5460	31.35	8.35	H	39.7	53.98	14.28	AV
5470	52.10	8.31	H	60.41	68.20	7.79	PK
5460	43.99	8.35	V	52.34	73.98	21.64	PK
5460	30.98	8.31	V	39.29	53.98	14.69	AV
5470	49.79	8.31	V	58.1	68.20	10.10	PK

2. 484 Tone

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	47.65	8.02	H	55.67	73.98	18.31	PK
5150	32.43	8.02	H	40.45	53.98	13.53	AV
5150	45.12	8.02	V	53.14	73.98	20.84	PK
5150	31.92	8.02	V	39.94	53.98	14.04	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	65

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	55.25	7.87	H	63.12	73.98	10.86	PK
5350	35.45	7.87	H	43.32	53.98	10.66	AV
5350	49.82	7.87	V	57.69	73.98	16.29	PK
5350	33.08	7.87	V	40.95	53.98	13.03	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	45.92	8.35	H	54.27	73.98	19.71	PK
5460	31.95	8.35	H	40.3	53.98	13.68	AV
5470	53.64	8.31	H	61.95	68.20	6.25	PK
5460	44.08	8.35	V	52.43	73.98	21.55	PK
5460	31.53	8.31	V	39.84	53.98	14.14	AV
5470	52.34	8.31	V	60.65	68.20	7.55	PK

10.9.3 802.11ax(HE80)

1. 26 Tone

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	49.87	8.02	H	57.89	73.98	16.09	PK
5150	31.31	8.02	H	39.33	53.98	14.65	AV
5150	47.97	8.02	V	55.99	73.98	17.99	PK
5150	31.05	8.02	V	39.07	53.98	14.91	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	53.15	7.87	H	61.02	73.98	12.96	PK
5350	32.18	7.87	H	40.05	53.98	13.93	AV
5350	50.84	7.87	V	58.71	73.98	15.27	PK
5350	31.02	7.87	V	38.89	53.98	15.09	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	43.99	8.35	H	52.34	73.98	21.64	PK
5460	32.11	8.35	H	40.46	53.98	13.52	AV
5470	49.29	8.31	H	57.6	68.20	10.60	PK
5460	42.38	8.35	V	50.73	73.98	23.25	PK
5460	30.51	8.31	V	38.82	53.98	15.16	AV
5470	42.95	8.31	V	51.26	68.20	16.94	PK

2. 996 Tone

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	49.57	8.02	H	57.59	73.98	16.39	PK
5150	31.76	8.02	H	39.78	53.98	14.20	AV
5150	47.99	8.02	V	56.01	73.98	17.97	PK
5150	31.42	8.02	V	39.44	53.98	14.54	AV

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

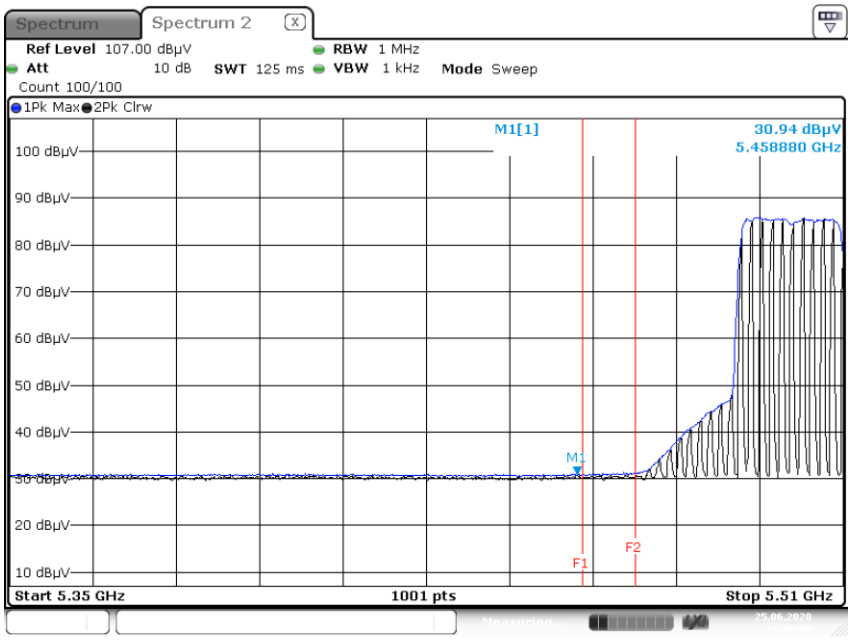
Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	53.83	7.87	H	61.70	73.98	12.28	PK
5350	34.55	7.87	H	42.42	53.98	11.56	AV
5350	47.04	7.87	V	54.91	73.98	19.07	PK
5350	32.08	7.87	V	39.95	53.98	14.03	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	45.52	8.35	H	53.87	73.98	20.11	PK
5460	31.91	8.35	H	40.26	53.98	13.72	AV
5470	50.12	8.31	H	58.43	68.20	9.77	PK
5460	43.90	8.35	V	52.25	73.98	21.73	PK
5460	30.77	8.31	V	39.08	53.98	14.90	AV
5470	45.90	8.31	V	54.21	68.20	13.99	PK

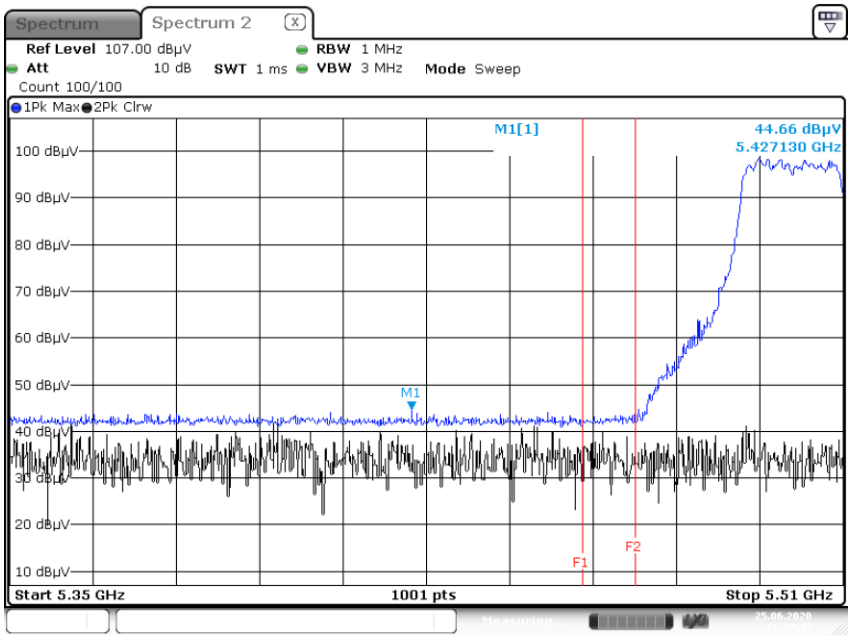
▣ Test Plots(UNII 1, 2A, 2C),

Average Reading (802.11ax(HE20), Ch.100, X-H) – 242 Tones –Ru offset 61
5 460 MHz



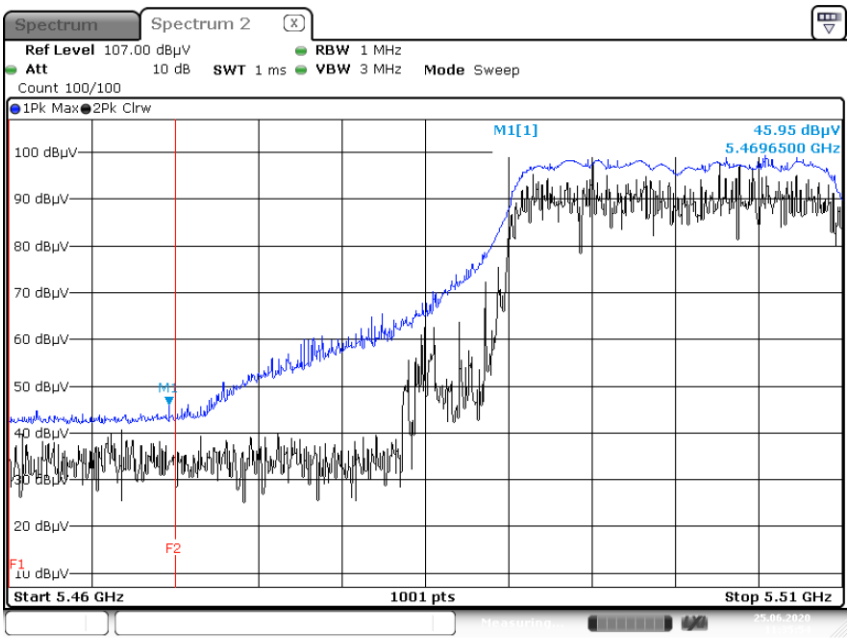
Date: 25.JUN.2020 11:38:30

Peak Reading (802.11ax(HE20), Ch.100, X-H) – 242 Tones –Ru offset 61
5 460 MHz



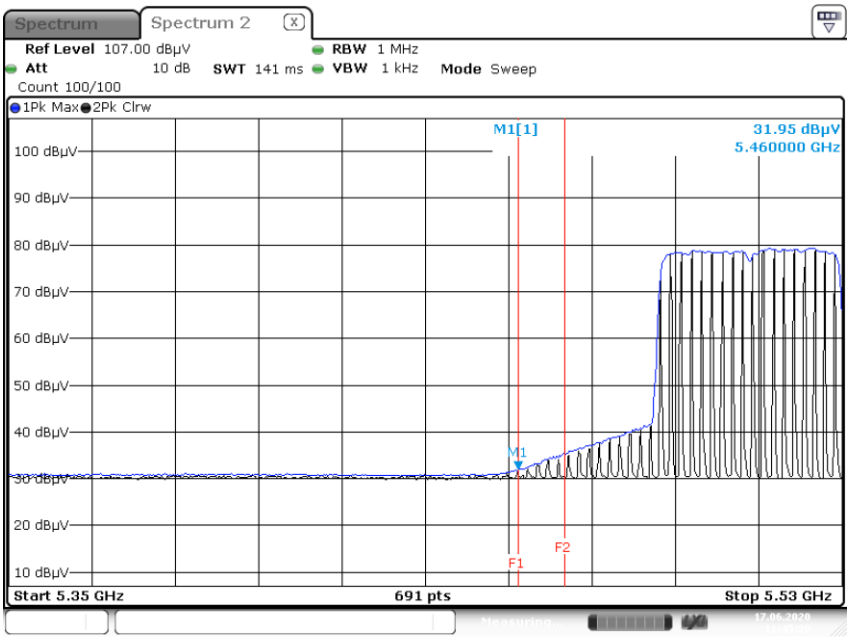
Date: 25.JUN.2020 11:37:42

Peak Reading (802.11ax(HE20), Ch.100, X-H) – 242 Tones –Ru offset 61
5 470 MHz



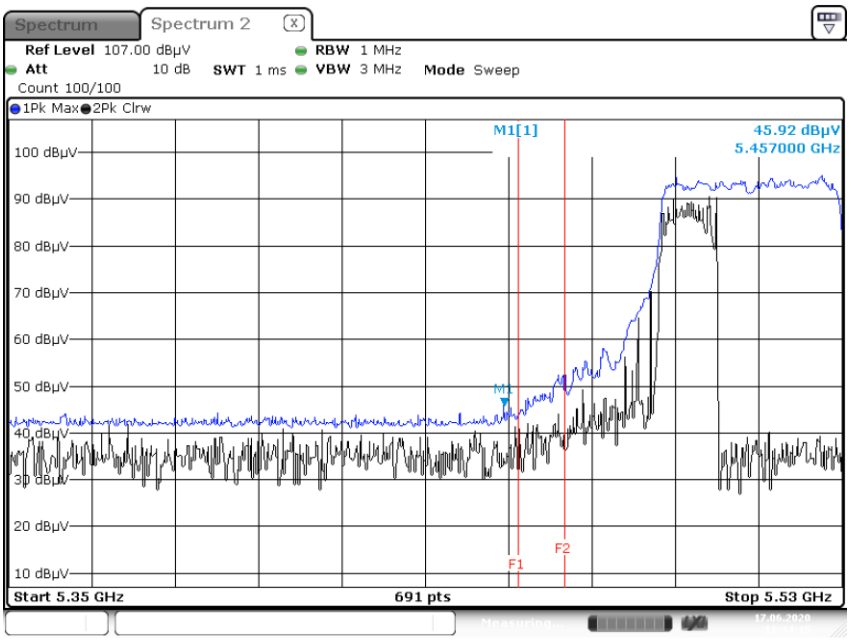
Date: 25.JUN.2020 11:35:54

Average Reading (802.11ax(HE40), Ch.102, Z-H) - 484 Tones – Ru offset 65
5 460 MHz



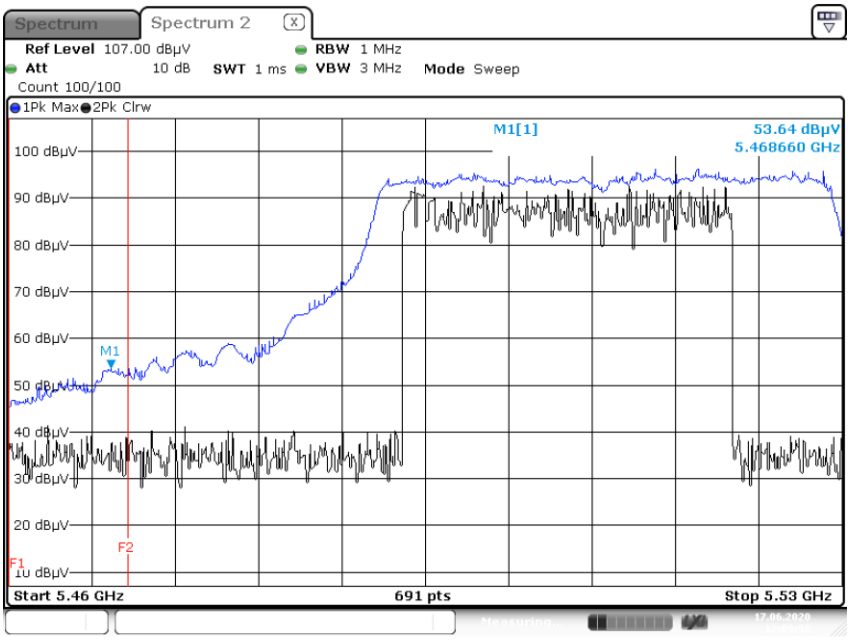
Date: 17.JUN.2020 11:45:20

Peak Reading (802.11ax(HE40), Ch.102, Z-H) - 484 Tones – Ru offset 65
5 460 MHz



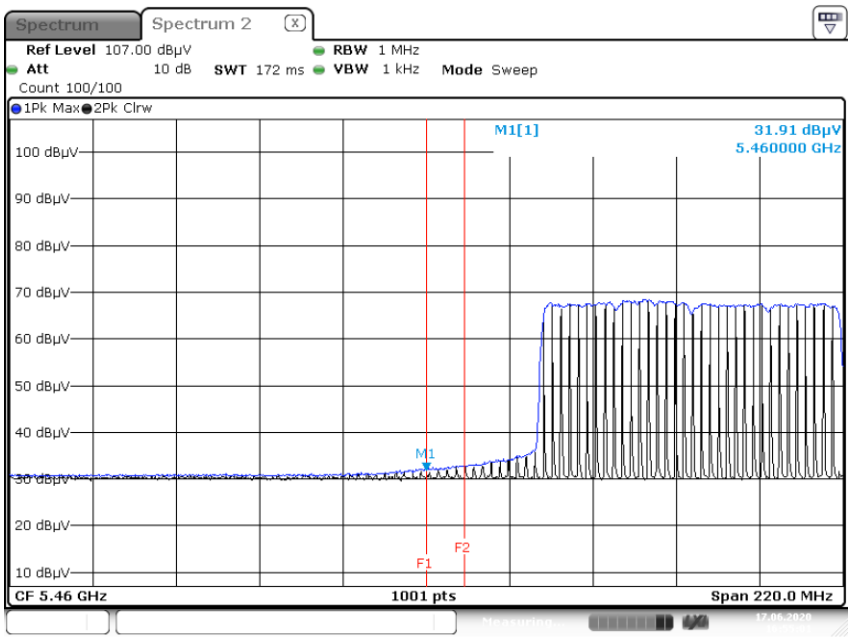
Date: 17.JUN.2020 11:44:16

Peak Reading (802.11ax(HE40), Ch.102, Z-H) - 484 Tones – Ru offset 65
5 470 MHz



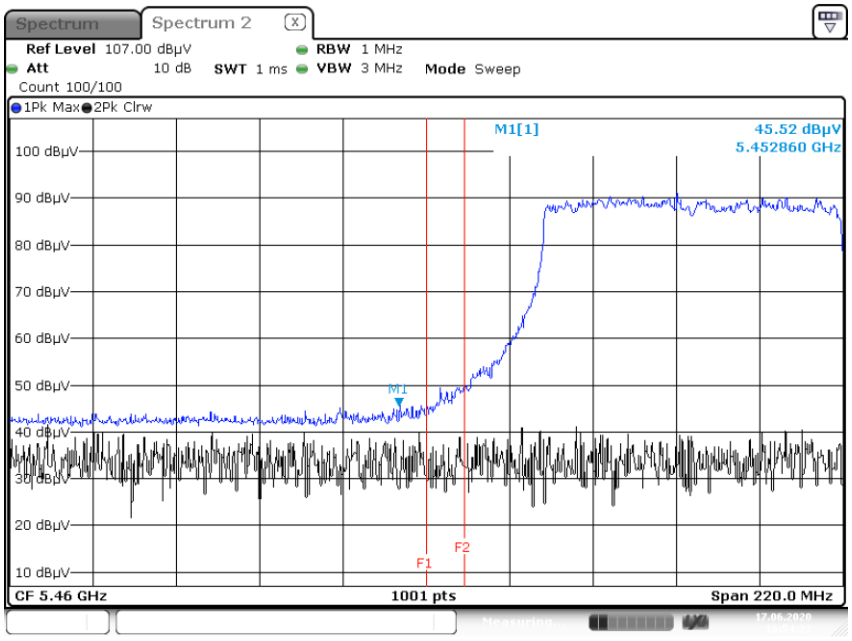
Date: 17.JUN.2020 12:09:59

Average Reading (802.11ax(HE80), Ch.106, X-H) - 996 Tones – Ru offset 67
5 460 MHz



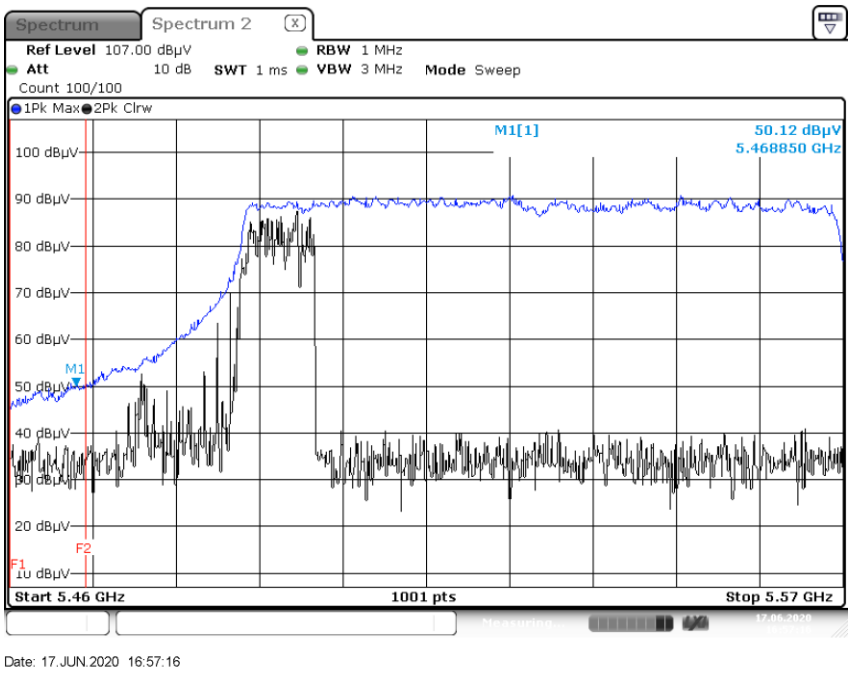
Date: 17.JUN.2020 16:55:01

Peak Reading (802.11ax(HE80), Ch.106, X-H) - 996 Tones – Ru offset 67
5 460 MHz



Date: 17.JUN.2020 16:54:23

Peak Reading (802.11ax(HE80), Ch.106, X-H) - 996 Tones – Ru offset 67
5 470 MHz

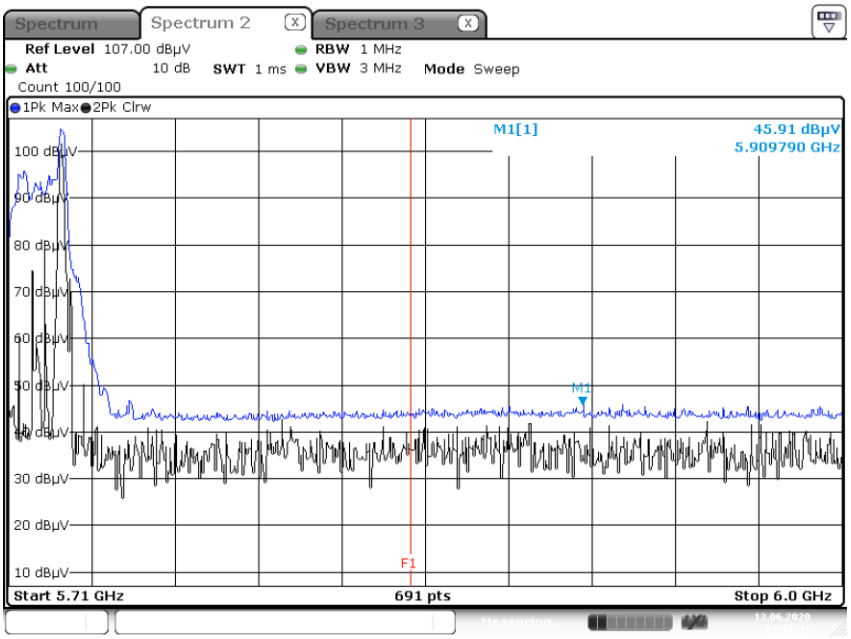


Note:

Only the worst case plots for Radiated Restricted Band Edge.

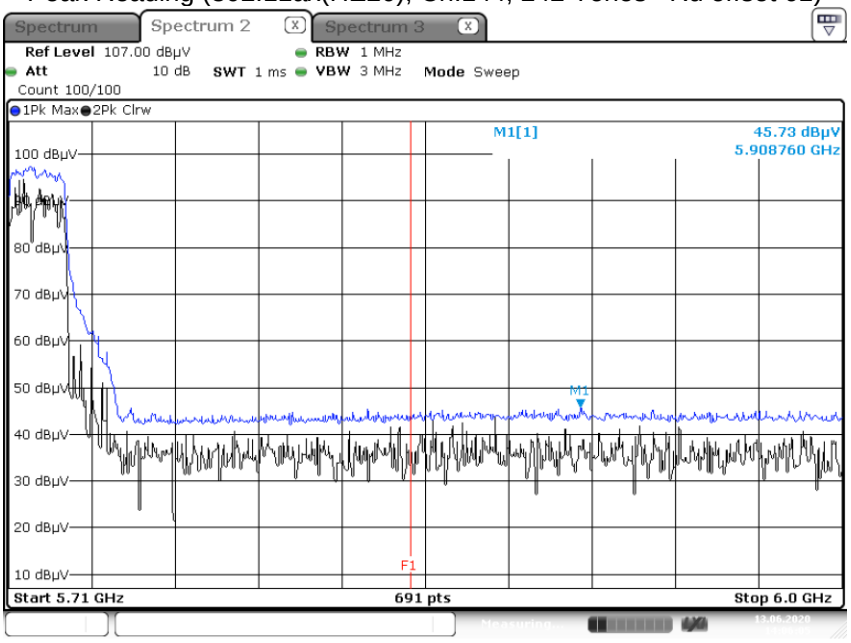
▣ Test Plots(Staraddle Channel)

Peak Reading (802.11ax(HE20), Ch.144, 26 Tones– Ru offset 8)



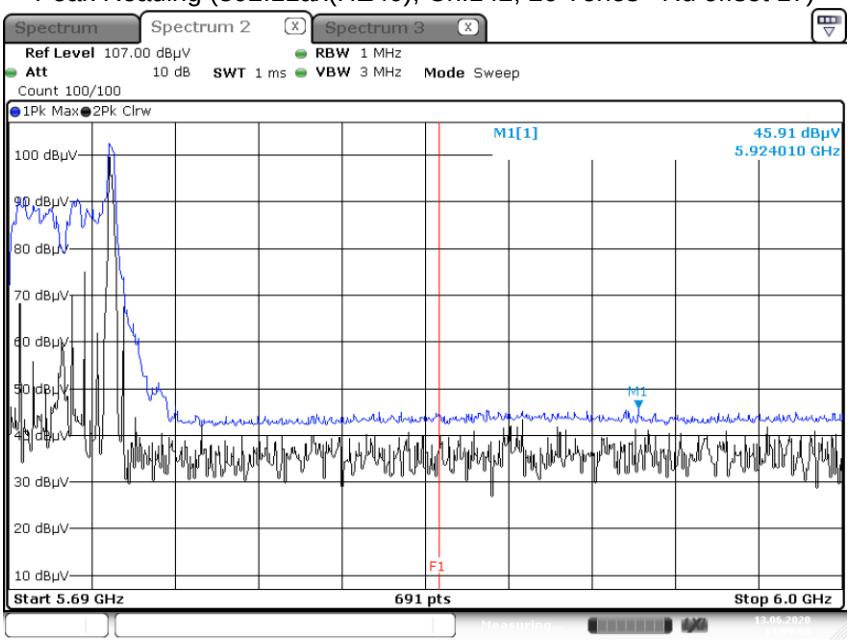
Date: 13.JUN.2020 14:01:42

Peak Reading (802.11ax(HE20), Ch.144, 242 Tones– Ru offset 61)



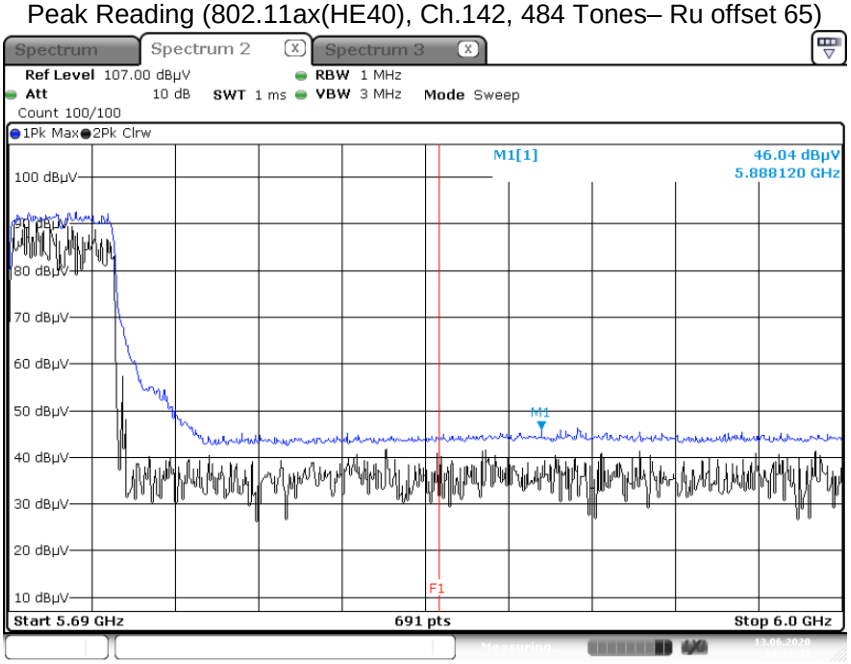
Date: 13.JUN.2020 14:06:05

Peak Reading (802.11ax(HE40), Ch.142, 26 Tones– Ru offset 17)



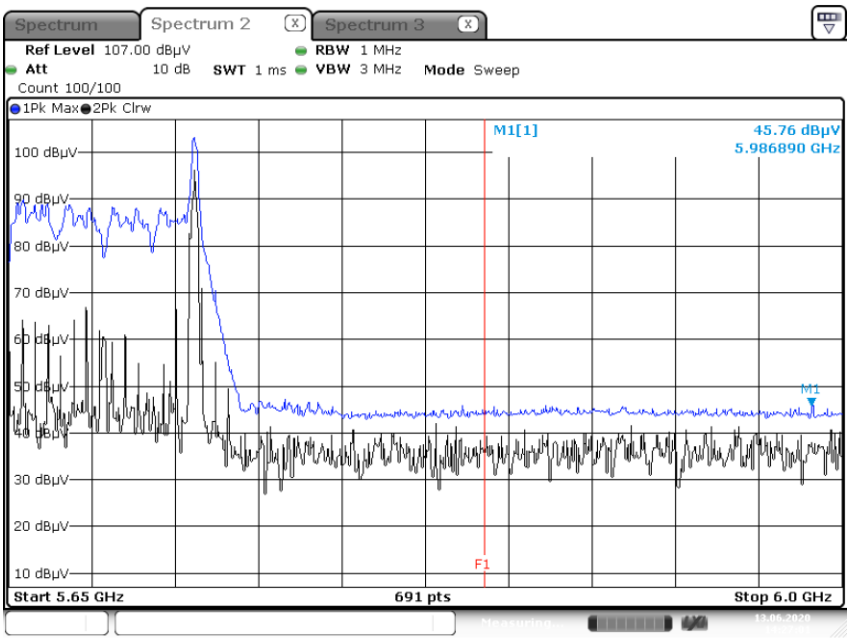
Date: 13.JUN.2020 14:09:08

Peak Reading (802.11ax(HE40), Ch.142, 484 Tones– Ru offset 65)



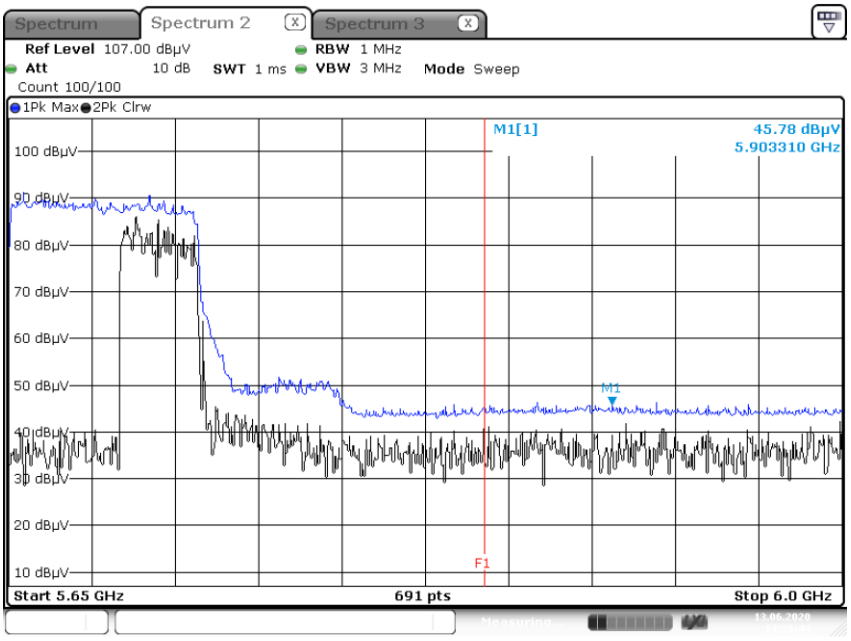
Date: 13.JUN.2020 14:21:41

Peak Reading (802.11ax(HE80), Ch.138, 26 Tones– Ru offset 36)



Date: 13.JUN.2020 14:27:01

Peak Reading (802.11ax(HE80), Ch.138, 996 Tones– Ru offset 67)



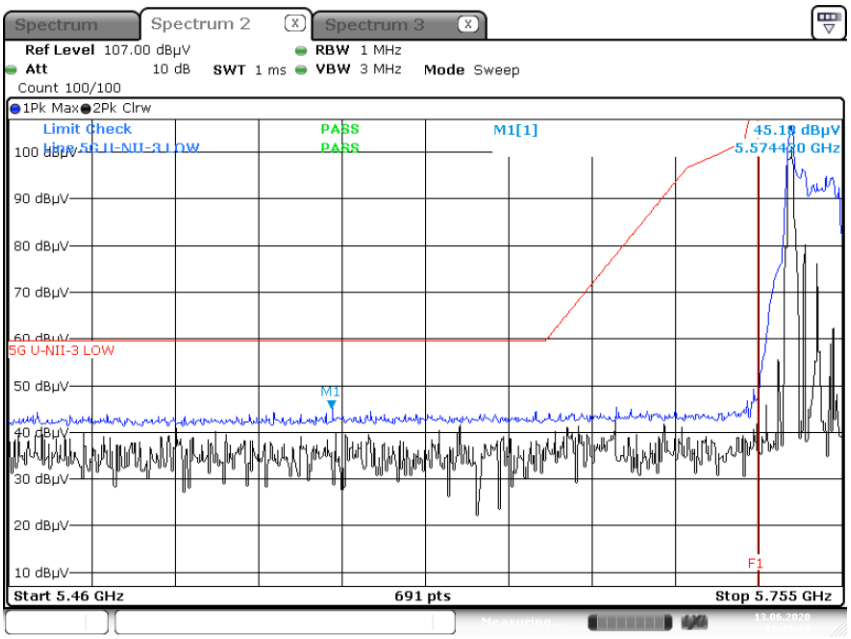
Date: 13.JUN.2020 14:38:44

Note :

1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

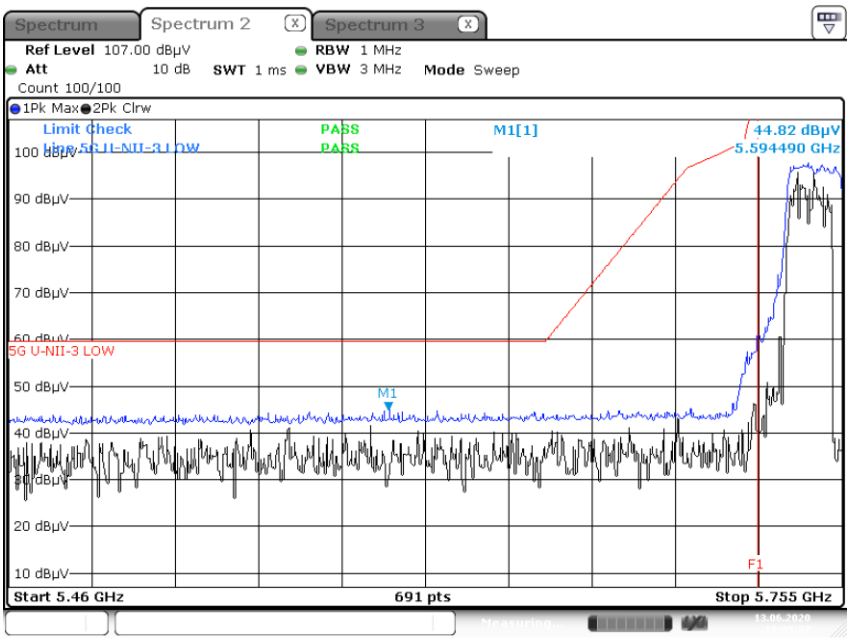
▣ Test Plots(UNII 3)

Peak Reading (802.11ax(HE20), Ch.149, 26 Tones– Ru offset 0)



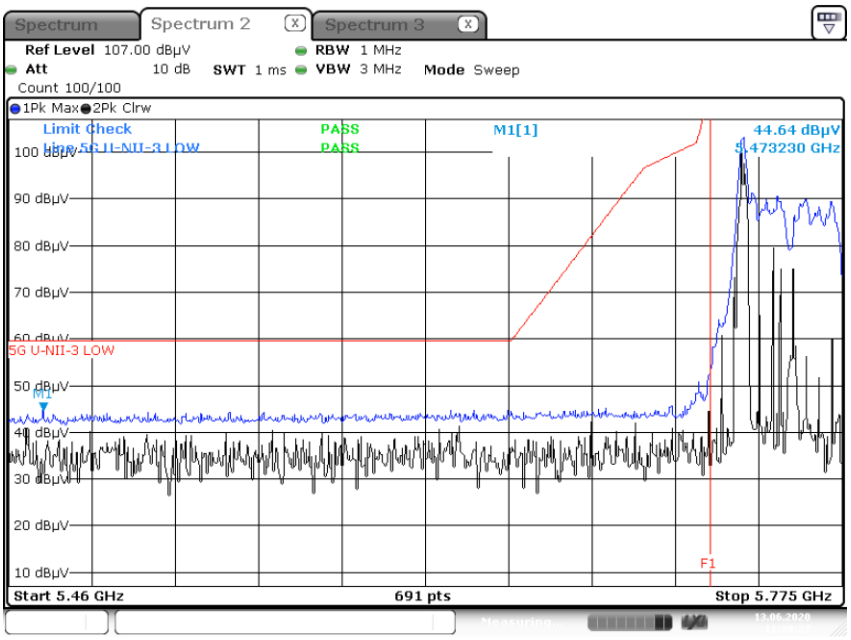
Date: 13.JUN.2020 11:31:18

Peak Reading (802.11ax(HE20), Ch.149, 242 Tones– Ru offset 61)



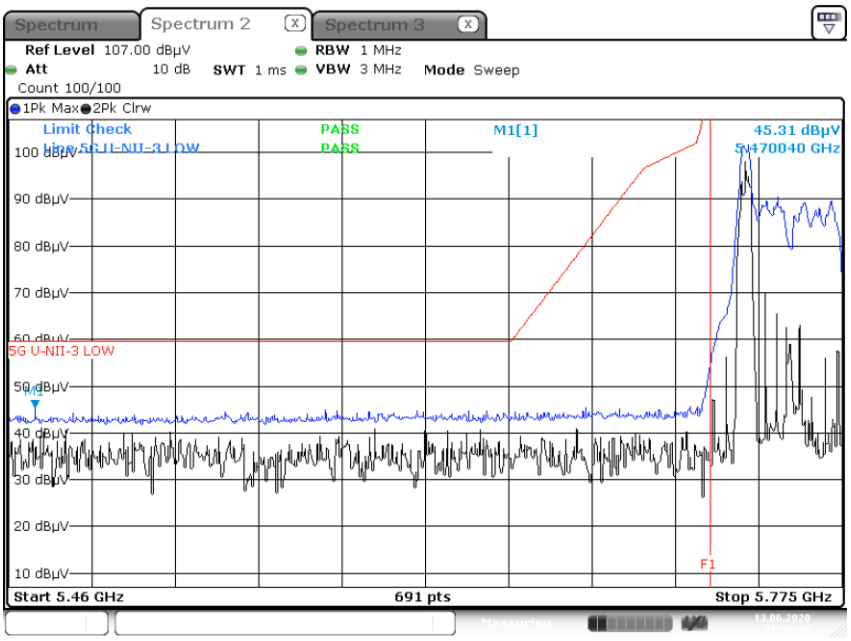
Date: 13.JUN.2020 11:35:27

Peak Reading (802.11ax(HE40), Ch.151, 26 Tones– Ru offset 0)



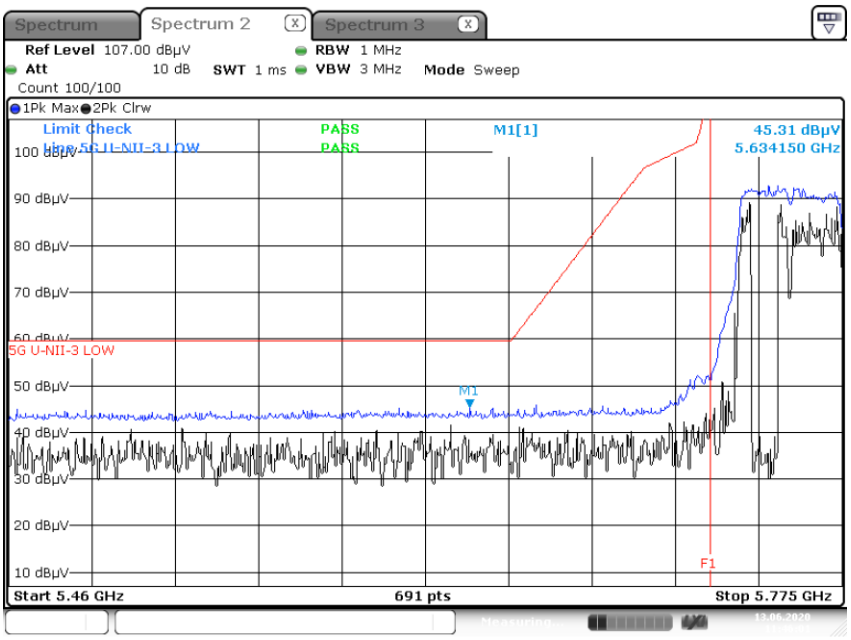
Date: 13.JUN.2020 11:38:27

Peak Reading (802.11ax(HE40), Ch.151, 52 Tones– Ru offset 37)



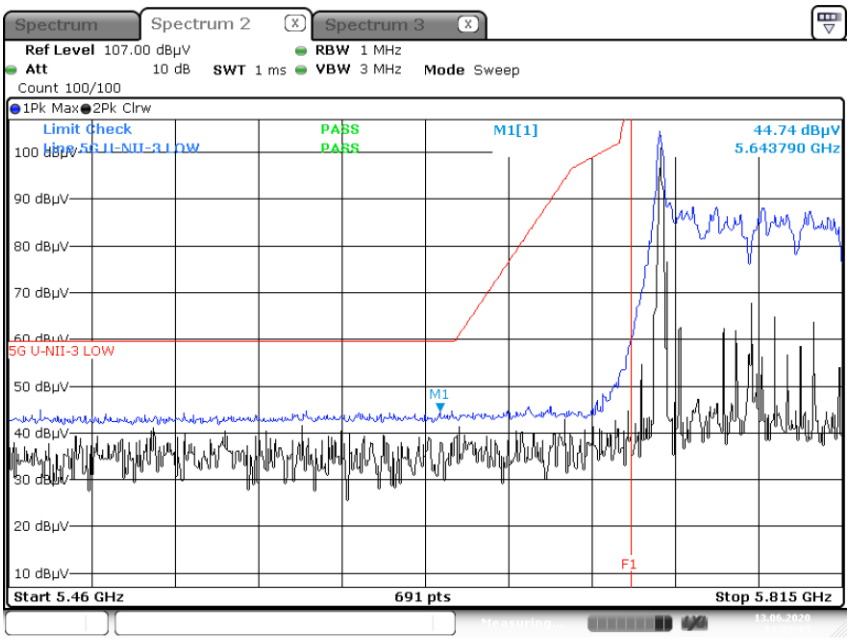
Date: 13.JUN.2020 11:39:46

Peak Reading (802.11ax(HE40), Ch.151, 484 Tones– Ru offset 65)



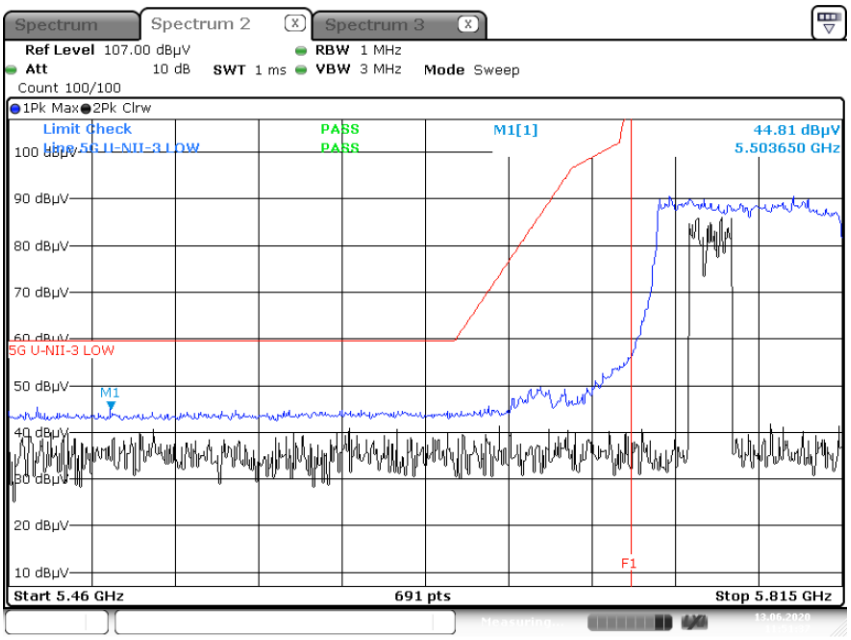
Date: 13.JUN.2020 11:46:01

Peak Reading (802.11ax(HE80), Ch.155, 26 Tones– Ru offset 0)



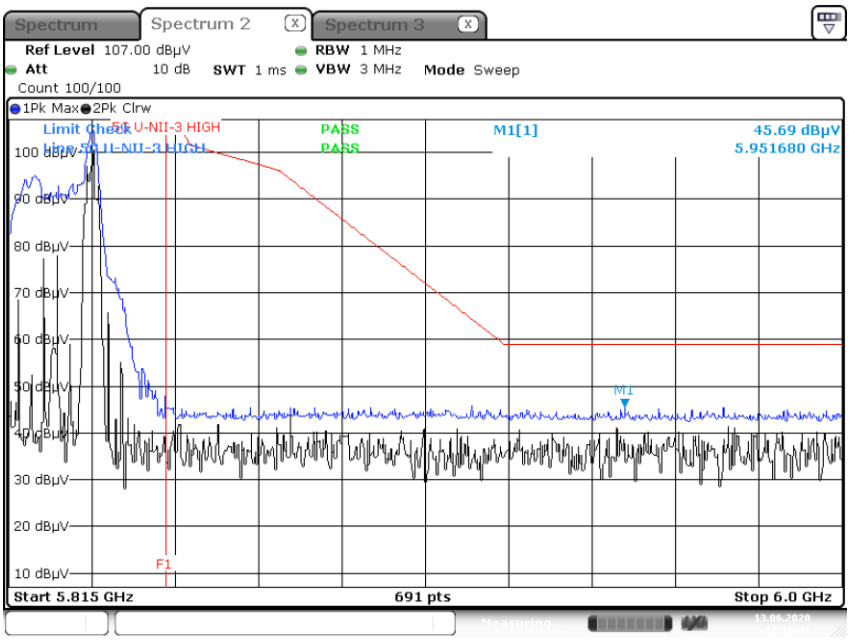
Date: 13.JUN.2020 11:22:13

Peak Reading (802.11ax(HE80), Ch.155, 996 Tones– Ru offset 67)



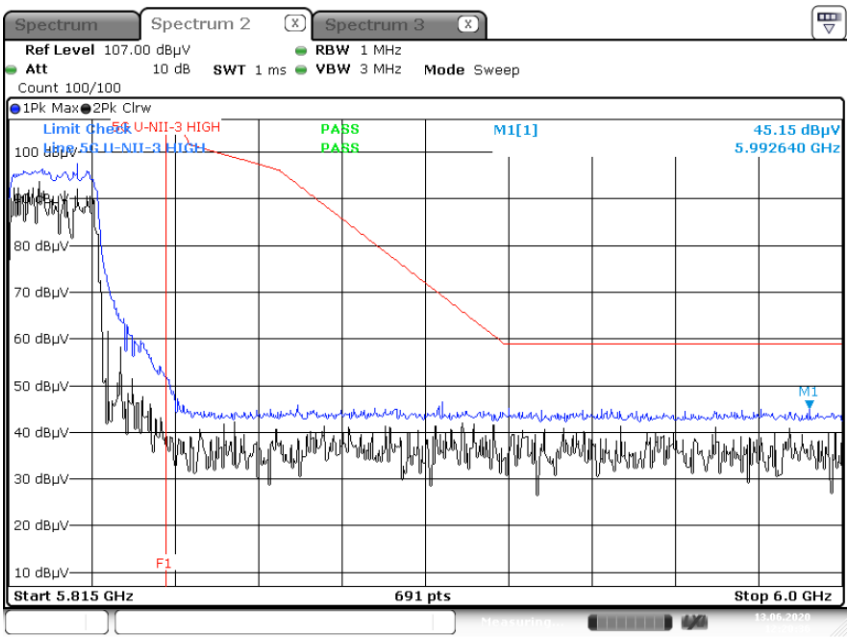
Date: 13.JUN.2020 11:51:37

Peak Reading (802.11ax(HE20), Ch.165, 26 Tones– Ru offset 8)



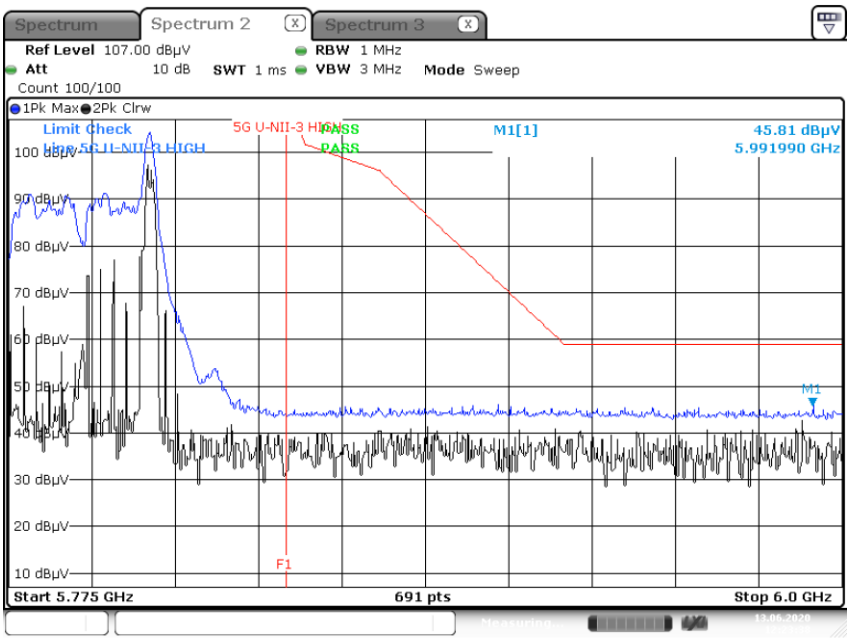
Date: 13.JUN.2020 12:16:41

Peak Reading (802.11ax(HE20), Ch.165, 242 Tones– Ru offset 61)



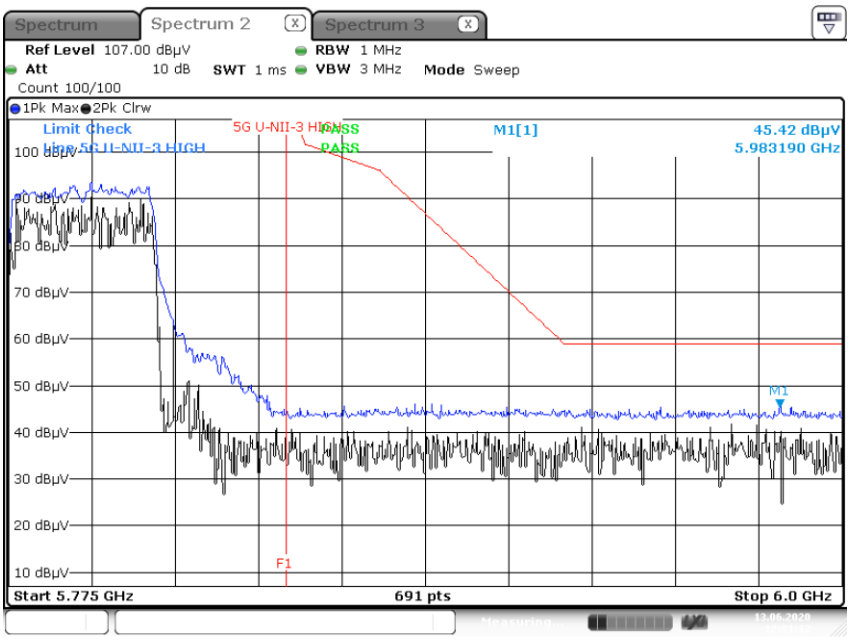
Date: 13.JUN.2020 12:20:37

Peak Reading (802.11ax(HE40), Ch.159, 26 Tones– Ru offset 17)



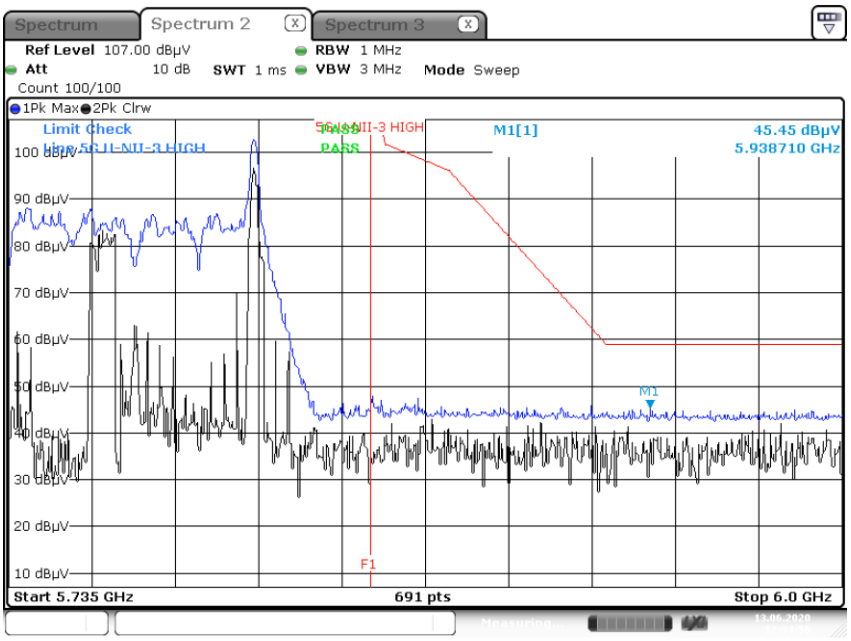
Date: 13.JUN.2020 12:23:38

Peak Reading (802.11ax(HE40), Ch.159, 484 Tones– Ru offset 65)



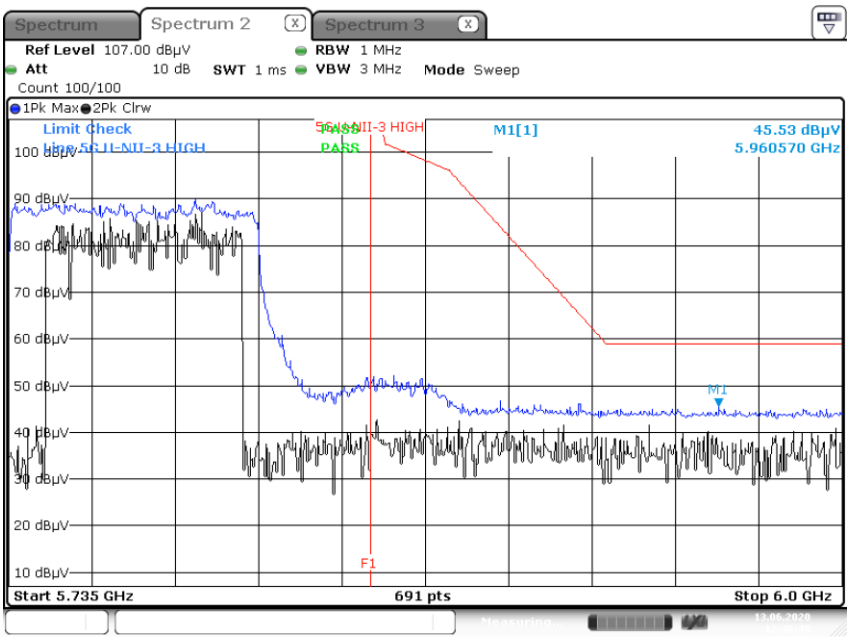
Date: 13.JUN.2020 12:31:12

Peak Reading (802.11ax(HE80), Ch.155, 26 Tones– Ru offset 36)



Date: 13.JUN.2020 12:34:56

Peak Reading (802.11ax(HE80), Ch.155, 996 Tones– Ru offset 67)



Date: 13.JUN.2020 12:46:48

10.10 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

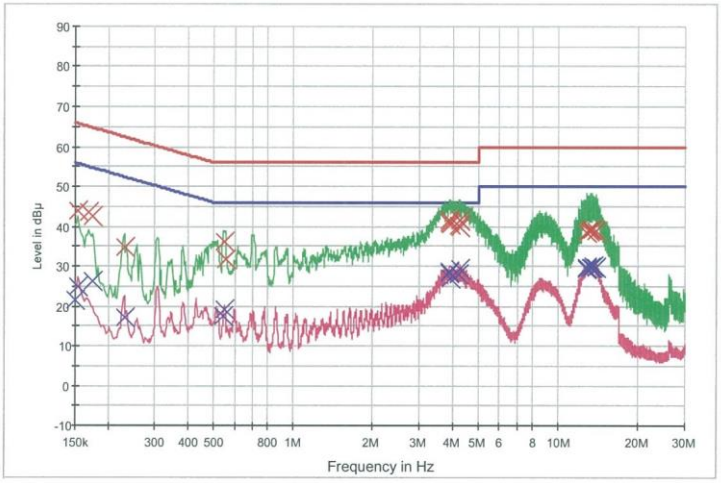
WLAN 5G AX MODE_L1 1 / 2

HCT TEST Report

Common Information

EUT:	SM-T878U
Manufacturer:	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN 5G AX MODE_L1

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154000	43.9	9.000	Off	L1	9.8	21.9	65.8
0.168000	43.5	9.000	Off	L1	9.8	21.5	65.1
0.174000	42.6	9.000	Off	L1	9.8	22.2	64.8
0.230000	34.9	9.000	Off	L1	9.8	27.6	62.4
0.550000	36.2	9.000	Off	L1	9.8	19.8	56.0
0.554000	31.9	9.000	Off	L1	9.8	24.2	56.0
3.880000	40.8	9.000	Off	L1	10.0	15.2	56.0
3.892000	41.4	9.000	Off	L1	10.0	14.6	56.0
3.900000	40.6	9.000	Off	L1	10.0	15.4	56.0
4.226000	40.3	9.000	Off	L1	10.0	15.7	56.0
4.240000	41.6	9.000	Off	L1	10.0	14.4	56.0
4.250000	40.0	9.000	Off	L1	10.0	16.0	56.0
12.738000	38.6	9.000	Off	L1	10.3	21.4	60.0
13.016000	38.8	9.000	Off	L1	10.3	21.2	60.0
13.234000	39.1	9.000	Off	L1	10.3	20.9	60.0
13.354000	39.2	9.000	Off	L1	10.3	20.8	60.0
13.404000	39.2	9.000	Off	L1	10.3	20.8	60.0
13.786000	39.0	9.000	Off	L1	10.3	21.0	60.0

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WLAN 5G AX MODE_L1 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	21.6	9.000	Off	L1	9.8	34.4	56.0
0.154000	25.0	9.000	Off	L1	9.8	30.7	55.8
0.174000	26.2	9.000	Off	L1	9.8	28.6	54.8
0.230000	17.0	9.000	Off	L1	9.8	35.5	52.4
0.542000	17.5	9.000	Off	L1	9.8	28.5	46.0
0.548000	19.2	9.000	Off	L1	9.8	26.8	46.0
3.854000	28.2	9.000	Off	L1	10.0	17.8	46.0
3.882000	28.6	9.000	Off	L1	10.0	17.4	46.0
3.892000	28.8	9.000	Off	L1	10.0	17.2	46.0
3.914000	26.8	9.000	Off	L1	10.0	19.2	46.0
4.226000	27.8	9.000	Off	L1	10.0	18.2	46.0
4.240000	29.4	9.000	Off	L1	10.0	16.6	46.0
12.738000	29.2	9.000	Off	L1	10.3	20.8	50.0
12.802000	29.7	9.000	Off	L1	10.3	20.3	50.0
13.234000	29.8	9.000	Off	L1	10.3	20.2	50.0
13.450000	29.5	9.000	Off	L1	10.3	20.5	50.0
13.506000	30.0	9.000	Off	L1	10.3	20.0	50.0
13.786000	29.6	9.000	Off	L1	10.3	20.4	50.0

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Conducted Emissions (Line 2)

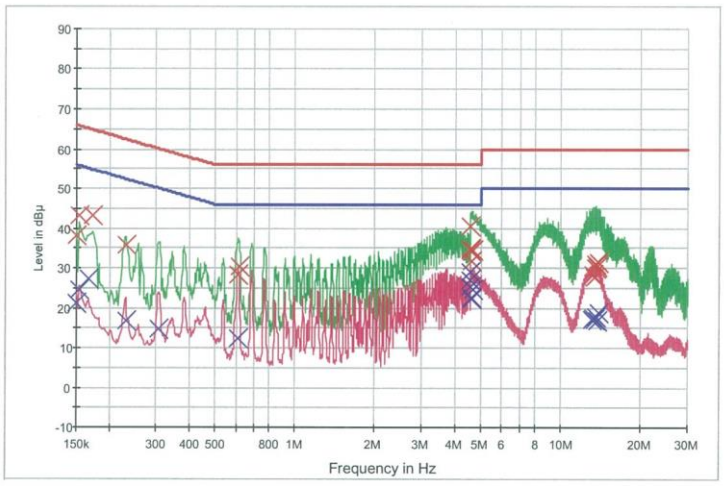
WLAN 5G AX MODE_N 1 / 2

HCT TEST Report

Common Information

EUT:	SM-T878U
Manufacturer:	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN 5G AX MODE_N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	38.0	9.000	Off	N	9.8	28.0	66.0
0.154000	43.3	9.000	Off	N	9.8	22.5	65.8
0.172000	43.3	9.000	Off	N	9.8	21.6	64.9
0.230000	35.7	9.000	Off	N	9.8	26.7	62.4
0.610000	28.2	9.000	Off	N	9.8	27.8	56.0
0.618000	30.4	9.000	Off	N	9.8	25.6	56.0
4.578000	40.6	9.000	Off	N	10.0	15.4	56.0
4.584000	34.3	9.000	Off	N	10.0	21.7	56.0
4.590000	34.7	9.000	Off	N	10.0	21.3	56.0
4.598000	34.0	9.000	Off	N	10.0	22.0	56.0
4.602000	31.7	9.000	Off	N	10.0	24.3	56.0
4.658000	34.4	9.000	Off	N	10.0	21.6	56.0
13.200000	28.2	9.000	Off	N	10.4	31.8	60.0
13.360000	27.6	9.000	Off	N	10.4	32.4	60.0
13.506000	29.9	9.000	Off	N	10.4	30.1	60.0
13.588000	31.0	9.000	Off	N	10.4	29.0	60.0
13.666000	30.3	9.000	Off	N	10.4	29.7	60.0
13.808000	31.4	9.000	Off	N	10.4	28.6	60.0

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WLAN 5G AX MODE_N 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	21.2	9.000	Off	N	9.8	34.8	56.0
0.154000	24.6	9.000	Off	N	9.8	31.2	55.8
0.166000	27.3	9.000	Off	N	9.8	27.9	55.2
0.230000	16.7	9.000	Off	N	9.8	35.8	52.4
0.306000	14.6	9.000	Off	N	9.8	35.5	50.1
0.612000	12.4	9.000	Off	N	9.8	33.6	46.0
4.580000	28.9	9.000	Off	N	10.0	17.1	46.0
4.584000	26.8	9.000	Off	N	10.0	19.2	46.0
4.590000	25.3	9.000	Off	N	10.0	20.7	46.0
4.604000	22.5	9.000	Off	N	10.0	23.5	46.0
4.618000	22.3	9.000	Off	N	10.0	23.7	46.0
4.660000	24.6	9.000	Off	N	10.0	21.4	46.0
13.138000	17.2	9.000	Off	N	10.4	32.8	50.0
13.200000	17.6	9.000	Off	N	10.4	32.4	50.0
13.434000	17.1	9.000	Off	N	10.4	32.9	50.0
13.506000	17.9	9.000	Off	N	10.4	32.1	50.0
13.674000	16.9	9.000	Off	N	10.4	33.1	50.0
13.798000	18.7	9.000	Off	N	10.4	31.3	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	09/11/2019	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/10/2020	Annual	100584
ESPAC	SU-642 /Temperature Chamber	08/14/2019	Annual	0093000718
Agilent	N9020A / Signal Analyzer	05/11/2020	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	03/23/2020	Annual	MY49432108
Agilent	N1911A / Power Meter	04/07/2020	Annual	MY45100523
Agilent	N1921A / Power Sensor	03/23/2020	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/11/2019	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	02/24/2020	Annual	10545
Hewlett Packard	E3632A / DC Power Supply	09/27/2019	Annual	MY40004427
Agilent	8493C / Attenuator(10 dB)	07/02/2019	Annual	07560
Rohde & Schwarz	18N-20dB / Attenuator(20 dB)	03/23/2020	Annual	8
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	03/02/2020	Annual	100808

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
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
TNM system	FBSM-01B / Amp & Filter Bank Switch Controller	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	05/18/2020	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/02/2019	Biennial	01039
Schwarzbeck	BBHA 9120D / Horn Antenna	06/28/2019	Biennial	1300
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	04/29/2019	Biennial	BBHA9170342
Weinschel	2-3 / Attenuator (3 dB)	10/08/2019	Annual	BR0617
Rohde & Schwarz	FSV(10 Hz ~ 40 GHz) / Spectrum Analyzer	05/13/2020	Annual	101055
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	01/21/2020	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	02/10/2020	Annual	1
CERNEX	CBL18265035 / Power Amplifier	12/26/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	03/23/2020	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/18/2020	Annual	3000C000276
TNM system	FBSM-05B / HPF(3~18GHz) + LNA1(1~18GHz)	01/21/2020	Annual	F6
TNM system	FBSM-05B / ATT(10dB) + LNA1(1~18GHz)	01/21/2020	Annual	None
TNM system	FBSM-05B / ATT(3dB) + LNA1(1~18GHz)	01/21/2020	Annual	None
TNM system	FBSM-05B / LNA1(1~18GHz)	01/21/2020	Annual	25540
TNM system	FBSM-05B / HPF(7~18GHz) + LNA2(6~18GHz)	01/21/2020	Annual	28550
TNM system	FBSM-05B / Thru(30MHz ~ 18GHz)	01/21/2020	Annual	None

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-2007-FC012-P