TEST REPORT

APPLICANT
Garmin International Inc

MODEL NAME
A05126

FCC ID
IPH-05126

IC
1792A-05126

REPORT NUMBER
HA2603-0043-R05-01

TEST REPORT

Date of Issue
August 11, 2026

Test Site
HCT America, Inc.
840 Yosemite Way, Milpitas, CA 95035, USA

Applicant	Garmin International Inc
Applicant Address	1200 E. 151st Street Olathe, Kansas 66062, USA
FCC ID	IPH-05126
IC	1792A-05126
EUT Type	Portable Digital Transceiver
Modulation Type	OFDM
FCC Classification	Unlicensed National Information Infrastructure (U-NII)
FCC Rule Part(s)	Part 15.407
ISED Rule Part(s)	RSS-247 Issue 4 (July 2025) RSS-Gen Issue 5 and 2 (February 2021)
Test Procedure	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, KDB 789033 D02 v02r01, KDB 662911 D01

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures required. The results of testing in this report apply only to the product which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Authorized & Released By:

Dan Coronia
Technical Manager

Tested By:

Joe Vang
RF Engineer

REVISION HISTORY

The revision history for this document is shown in table.

TEST REPORT NO.	REVISION	DATE	DESCRIPTION
HA2603-0043-R05	0	August 4, 2026	Initial Issue
HA2603-0043-R05-01	1	August 11, 2026	Added UNII-3 99% plots and data

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1. GENERAL INFORMATION

EUT DESCRIPTION

Model	A05126
Product Name	A05126
Serial Number	Conducted: 18221109 Radiated: 18218560
Power Supply	5 V d.c. (USB type C - External adaptor)
RF Specification	Bluetooth 5.0 LE (BR / EDR / 1M / 2M), WIFI 2.4 GHz: 802.11b /g/ n (HT20) WIFI 5 GHz: 802.11a/n(HT20/40)/ac (VHT80)
Transmitter Chain	1

RF SPECIFICATION SUBJECT TO THE REPORT

RF Specification	802.11a/n(HT20/40)/ac(VHT20/40/80)	
Transmitter Chain	1	
Frequency Range	U-NII-1	20 MHz BW: 5180 MHz – 5240 MHz 40 MHz BW: 5190 MHz – 5230 MHz 80 MHz BW: 5210 MHz
	U-NII-2A	20 MHz BW: 5260 MHz – 5320 MHz 40 MHz BW: 5270 MHz – 5310 MHz 80 MHz BW: 5290 MHz
	U-NII-2C	20 MHz BW: 5500 MHz – 5720 MHz 40 MHz BW: 5510 MHz – 5710 MHz 80 MHz BW: 5530 MHz – 5690 MHz
	U-NII-3	20 MHz BW: 5745 MHz – 5825 MHz 40 MHz BW: 5755 MHz – 5795 MHz 80 MHz BW: 5775 MHz
Straddle channel	NA	
Max. RF Output Power	17.105 dBm (51.53 mW)	
Modulation Type	GFSK	
Antenna Specification [1)]	Antenna Type: Inverted-F Peak Gain: UNII 1 (5180 – 5250MHz) = 7.41 dBi UNII 2A (5250 – 5330MHz) = 7.41 dBi UNII 2C (5490 – 5730MHz) = 6.81 dBi UNII 3 (5735 – 5835MHz) = 5.63 dBi	
Firmware Version [2)]	2.01	
Hardware Version [2)]	V6 SAV127G2v2 DB R1024? WB	
Date(s) of Tests	May 12, 2026, ~ July 29, 2026	
Test Environment	Temperature: 18.9°C ~ 25°C Humidity: 35% ~ 50% R.H.	

Note:

1. Antenna information is based on the document provided.
2. Firmware and Hardware Version are as received by the client.

OPERATING FREQUENCY CHANNELS

Band	Bandwidth (MHz)	Channel	Frequency (MHz)
U-NII 1	20	36	5180
		40	5200
		44	5220
		48	5240
	40	38	5190
		46	5230
	80	42	5210
Band	**Bandwidth (MHz)**	**Channel**	**Frequency (MHz)**
U-NII 2a	20	52	5260
		56	5280
		60	5300
		64	5320
	40	54	5270
		62	5310
	80	58	5290
Band	**Bandwidth (MHz)**	**Channel**	**Frequency (MHz)**
U-NII 2c	20	100	5500
		104	5520
		108	5540
		112	5560
		116	5580
		120	5600
		124	5620
		128	5640
		132	5660
		136	5680
		140	5700
	40	102	5510
		110	5550
		118	5590
		126	5630
		134	5670
	80	106	5530
		122	5610
Band	**Bandwidth (MHz)**	**Channel**	**Frequency (MHz)**
U-NII 3	20	149	5745
		153	5765
		157	5785
		161	5805
		165	5825
	40	151	5755
		159	5795
	80	155	5775

CHANNEL FREQUENCY UNDER TEST

Mode (U-NII 1)	Bandwidth (MHz)	Low Channel (MHz)	Mid Channel (MHz)	High Channel (MHz)
802.11a	20	5180	5200	5240
802.11n	20	5180	5200	5240
	40	5190	-	5230
802.11ac	80	5210	-	-

CHANNEL FREQUENCY UNDER TEST

Mode (U-NII 2a)	Bandwidth (MHz)	Low Channel (MHz)	Mid Channel (MHz)	High Channel (MHz)
802.11a	20	5260	5300	5320
802.11n	20	5260	5300	5320
	40	5270	-	5310
802.11ac	80	5290		

Mode (U-NII 2c)	Bandwidth (MHz)	Low Channel (MHz)	Mid Channel (MHz)	High Channel (MHz)
802.11a	20	5500	5580	5700
802.11n	20	5500	5580	5700
	40	5510	5550	5670
802.11ac	80	5530	-	5610

Mode (Straddle)	Bandwidth (MHz)	Low Channel (MHz)	Mid Channel (MHz)	High Channel (MHz)
802.11a	20	5720 (1)		
802.11n	20	5720 (1)		
	40	5710 (1)		
802.11ac	80	5690 (1)		

Mode (U-NII 3)	Bandwidth (MHz)	Low Channel (MHz)	Mid Channel (MHz)	High Channel (MHz)
802.11a	20	5745	5785	5825
802.11n	20	5745	5785	5825
	40	5755	5795	-
802.11ac	80	5775	-	-

Note:

1. Straddle channels between U-NII 2c and U-NII 3 bands

2. 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 C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 ‘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 Section 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E. / the RSS-GEN issue 5 and 2, RSS-247 issue 4.

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 C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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 the highest emission. Also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. To find out the maximum emission, the relative positions of this hand-held transmitter (EUT) were rotated through three orthogonal axes according to the requirements in Section 8 of ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

DESCRIPTION OF TEST MODES

The EUT has been tested at 5 GHz WLAN test mode. Power level setting at continuous TX and normal RX mode for each 802.11a/n(HT20/40) /ac(VHT20/40/80).

3. 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, which is traceable to recognize national standards. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version: 2017).

HCT America, Inc. holds A2LA accreditation (certificate no. 4201.01) covering all testing included in the scope of this report. All tests were conducted at the facilities listed below.

4. FACILITIES AND ACCREDITATIONS

FACILITIES

HCT America, Inc. holds A2LA accreditation (certificate no. 4201.01) covering all testing included in the scope of this report. All tests were conducted at the facilities listed below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	840 Yosemite Way, Milpitas, CA 95035 USA	US0198	25729	898494
☐	1177 Comstock Road, Hollister, CA 95023 USA	US0198	25729	898494

Accredited Laboratory

A2LA has accredited

HCT AMERICA, INC.

Milpitas, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the A2LA – R256 – Specific Requirements. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 22nd day of September 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4201.01
Valid to July 31, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

EQUIPMENT

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

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

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

5. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

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

(1) The antenna of this E.U.T is permanently attached and there is no provision for connection to an external antenna.
(2) The E.U.T Complies with the requirement of §15.203

According to RSS-Gen Issue 5 and 2 (Section 6.8):

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotopically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

6. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

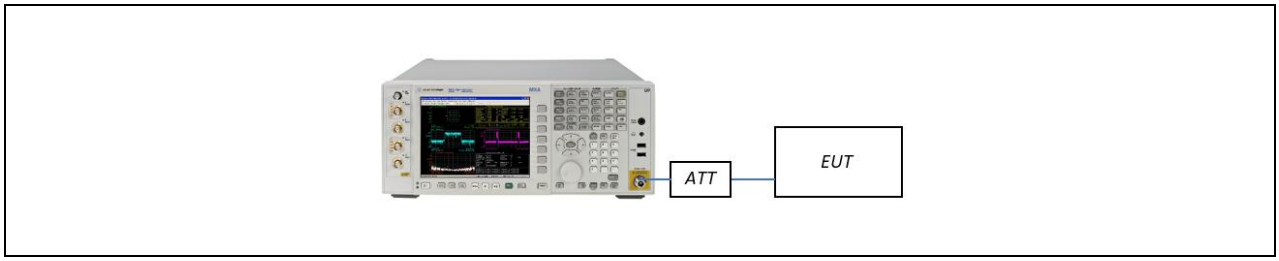
All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty
Output Power, Conducted	± 0.54 dB
Frequency Tolerance	± 16.78 kHz
Occupied Bandwidth	± 120.66 kHz
Unwanted Emissions, Conducted	± 0.54 dB
Radiated Emissions (below 1 GHz)	± 5.29 dB
Radiated Emissions (Above 1 GHz)	± 4.29 dB

7. DESCRIPTION OF TESTS

7.1. DUTY CYCLE

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer.
Measurement is performed in accordance with section B.2 in KDB 789033 D02 v02r01.

The largest available value of RBW is 8 MHz and VBW is 50 MHz.
The zero-span method of measuring duty cycle shall not be used if T ≤ 6.25 microseconds. (50/6.25 = 8)
The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/*T*.

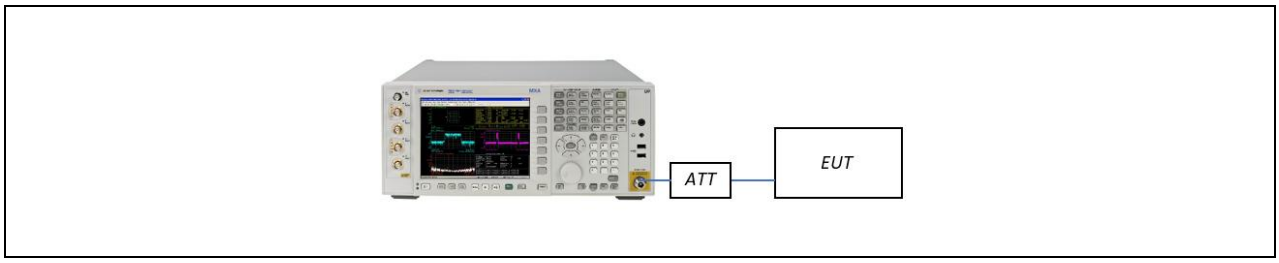
- RBW = 8 MHz (the largest available value)
- VBW = 8 MHz (≥ RBW)
- SPAN = 0 Hz
- Detector = Peak
- Number of points in sweep > 100
- Trace mode = Clear write
- Measure T_{total} and T_{on}
- Calculate Duty Cycle = T_{on}/ T_{total} and Duty Cycle Factor = 10*log(1/Duty Cycle)

7.2. 6 dB BANDWIDTH / 26 dB BANDWIDTH / 99 % OCCUPIED BANDWIDTH

LIMIT

Emission bandwidth was measured to define the minimum frequency range which the spectrum is integrated for maximum conducted output power measurement.

TEST SETUP



TEST PROCEDURE (26 dB Bandwidth)

Testing was performed according to section C in KDB 789033 D02 v02r01.
The transmitter output is connected to the spectrum analyzer.
The Spectrum Analyzer setting:

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

TEST PROCEDURE (6 dB Bandwidth)

Testing was performed according to section C in KDB 789033 D02 v02r01.
The transmitter output is connected to the spectrum analyzer.
The Spectrum Analyzer setting:

- RBW = Approximately 1 % of the emission bandwidth
- VBW ≥ 3 x RBW
- Detector = Peak
- Trace mode = max hold
- Sweep = auto couple
- 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.

TEST PROCEDURE (99% Bandwidth)

Testing was performed according to section D in KDB 789033 D02 v02r01.
The transmitter output is connected to the spectrum analyzer.

- RBW = 1% ~ 5% of the occupied bandwidth
- VBW ≒ 3 x RBW
- Detector = Peak
- Trace mode = max hold
- Sweep = auto couple
- Allow the trace to stabilize

Note:
1. The bandwidth measurement function from the spectrum analyzer is used to measure X dB bandwidth.
2. 26 dB bandwidth is used to determine the conducted power limits.

7.3. MAXIMUM CONDUCTED OUTPUT POWER

LIMIT

Band		47 CFR §15.407(a)(1)	
U-NII 1	☐	Master (Outdoor)	≤ 1 W (= 30 dBm) ≤ 125 mW (= 21 dBm) EIRP at max elevation angle (30°) from horizon
	☐	Master (Indoor)	≤ 1 W (= 30 dBm)
	☒	Client	≤ 250 mW (= 24 dBm)

Band	RSS-247, Section 7.3.1.2
U-NII 1	≤ 200 mW e.i.r.p. or ≤ 10 + 10 log(B) dBm e.i.r.p. whichever power is less, where B is 99% bandwidth in MHz

Band	47 CFR §15.407(a)(2)	RSS-247, 7.3.2.2 / 7.3.3.2
U-NII 2a	≤ 250 mW or ≤ 11 dBm + 10 log (B) Whichever is less (where B is the 26 dB Emission BW in MHz)	≤ 250 mW or ≤ 11 dBm + 10 log (B) ≤ 1 W e.i.r.p. or ≤ 17 dBm + 10 log (B) e.i.r.p. Whichever power is less (where B is 99% BW in MHz)
U-NII 2c		

Band	47 CFR §15.407(a)(3)(i)	RSS-247, 7.3.4.3
U-NII 3	≤ 1 W (= 30dBm)	≤ 1 W (= 30dBm)

If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP

TEST PROCEDURE

Refer to the section E.2.d) in KDB 789033 D02 v02r01
The transmitter output is connected to the Spectrum Analyzer.
Spectrum analyzer's integrated band power measurement function was used.

- Measure the duty cycle.
- Set span to encompass the 26 dB EBW.
- RBW = 1 MHz
- VBW ≥ 3 MHz
- Number of points in sweep ≥ 2*span/RBW.
- Sweep time = auto.
- Detector = RMS.
- Do not use sweep triggering. Allow the sweep to "free run".
- Trace average at least 100 traces in power averaging (RMS) mode
- Integrated bandwidth = OBW

Add 10log(1/x), where x is the duty cycle, to the measured power to compute the average power during the actual transmission times

Sample Calculation

- Conducted Output Power (Average) = Reading Value + ATT loss + Cable loss + Duty Cycle Factor

7.4. POWER SPECTRAL DENSITY

LIMIT

Band		47 CFR §15.407(a)(1)	
U-NII 1	☐	Master Device	≤ 17 dBm/MHz
	☒	Client Device	≤ 11 dBm/MHz

Band	RSS-247, Section 7.3.1.2
U-NII 1	≤ 10 dBm/MHz e.i.r.p.

Band	47 CFR §15.407(a)(2)	RSS-247, 7.3.2.2 / 7.3.3.2
U-NII 2a	≤ 11 dBm/MHz	≤ 11 dBm/MHz
U-NII 2c		

Band	47 CFR §15.407(a)(3)(i)	RSS-247, 7.3.4.3
U-NII 3	≤ 30 dBm/500 kHz	≤ 30 dBm/500 kHz

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP

TEST PROCEDURE

Refer to section F in KDB 789033 D02 v02r01.

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- RBW = 1 MHz (510 kHz for UNII 3)
- VBW ≥ 3 MHz
- Number of points in sweep ≥ 2*span/RBW.
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- Do not use sweep triggering. Allow the sweep to “free run”.
- Trace average at least 100 traces in power averaging (RMS) mode
- Use the peak search function on the spectrum analyzer to find the peak of the spectrum.
- 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 (Average) = Reading Value + ATT loss + Cable loss + Duty Cycle Factor

7.5. UNDESIRABLE EMISSION

LIMIT

Frequency Band	Limit
U-NII 1	In accordance with **47 CFR §15.407(b)(1) / In accordance with RSS-247, Section 7.3.1.3** All emissions outside the 5.15-5.35 GHz band shall not exceed an −27 dBm/MHz e.i.r.p.

Frequency Band	Limit
U-NII 2a	In accordance with **47 CFR § 15.407(b)(2) / RSS-247, 7.3.2.3** All emissions outside the 5.15-5.35 GHz band shall not exceed an −27 dBm/MHz e.i.r.p.
U-NII 2c	In accordance with **47 CFR § 15.407(b)(3) / RSS-247, 7.3.3.3** All emissions outside the 5.47-5.725 GHz band shall not exceed an −27 dBm/MHz e.i.r.p.

Frequency Band	Limit
U-NII 3	In accordance with **47 CFR § 15.407(b)(4) / RSS-247, 7.3.4.4** 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.

Note:
For ISED, the 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

RADIATION EMISSION LIMIT

FCC: 47 CFR § 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

ISED : RSS-GEN Section 8.9		
Frequency (MHz)	**Field Strength (uV/m)**	**Measurement Distance (m)**
0.009 – 0.490	6.37/F(kHz)	300
0.490 – 1.705	63.7/F(kHz)	30
1.705 – 30	0.08	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

RECEIVER RADIATED EMISSION LIMIT

ISED: RSS-GEN Section 7.3		
Frequency (MHz)	**Field Strength (uV/m)**	**Measurement Distance (m)**
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

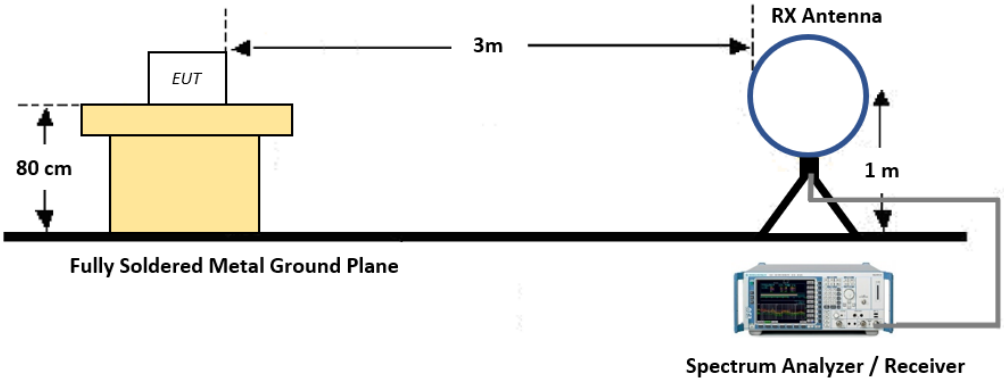
RESTRICTED BANDS OF OPERATION

FCC: 47 CFR § 15.205(a)				
Frequency (MHz)	**Frequency (MHz)**	**Frequency (MHz)**	**Frequency (MHz)**	**Frequency (MHz)**
0.090 - 0.110	12.29 - 12.293	149.9 - 150.05	1660.0 - 1710.0	8025 - 8500
0.495 - 0.505	12.51975 - 12.52025	156.52475 - 156.52525	1718.8 - 1722.2	9000 - 9200
2.1735 - 2.1905	12.57675 - 12.57725	156.7 - 156.9	2200.0 - 2300.0	9300 - 9500
4.125 - 4.128	13.36 - 13.41	162.0125 - 167.17	2310.0 - 2390.0	10600 - 12700
4.17725 - 4.17775	16.42 - 16.423	167.72 - 173.2	2483.5 - 2500.0	13250 - 13400
4.20725 - 4.20775	16.69475 - 16.69525	240.0 - 285.0	2690.0 - 2900.0	14470 - 14500
6.215 - 6.218	16.80425 - 16.80475	322.0 - 335.4	3260.0 - 3267.0	15350 - 16200
6.26775 - 6.26825	25.5 - 25.67	399.9 - 410.0	3332.0 - 3339.0	17700 - 21400
6.31175 - 6.31225	37.5 - 38.25	608.0 - 614.0	3345.8 - 3358.0	22010 - 23120
8.291 - 8.294	73 - 74.6	960.0 - 1240.0	3600.0 - 4400.0	23600 - 24000
8.362 - 8.366	74.8 - 75.2	1300.0 - 1427.0	4500.0 - 5150.0	31200 - 31800
8.37625 - 8.38675	108 - 121.94	1435.0 - 1626.5	5350.0 - 5460.0	36430 - 36500
8.41425 - 8.41475	123 - 138	1645.5 - 1646.5	7250.0 - 7750.0	Above 38600

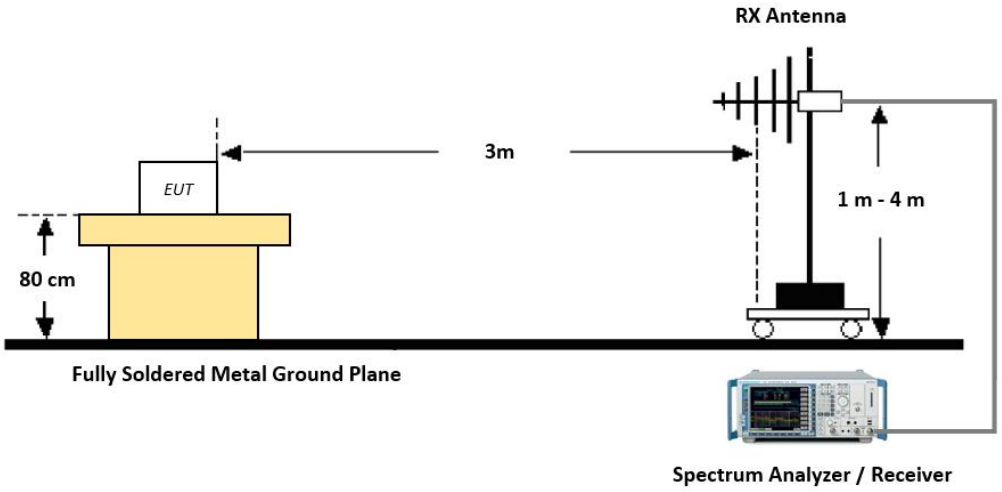
ISED: RSS-GEN Section 8.10				
Frequency (MHz)	**Frequency (MHz)**	**Frequency (MHz)**	**Frequency (MHz)**	**Frequency (MHz)**
0.090 - 0.110	8.37625 - 8.38675	108 – 138	1660 - 1710	8025 - 8500
0.495 - 0.505	8.41425 - 8.41475	149.9 - 150.05	1718.8 - 1722.2	9000 - 9200
2.1735 - 2.1905	12.29 - 12.293	156.52475 - 156.52525	2200 - 2300	9300 - 9500
3.020 - 3.026	12.51975 - 12.52025	156.7 - 156.9	2310 - 2390	10600 - 12700
4.125 - 4.128	12.57675 - 12.57725	162.0125 - 167.17	2483.5 - 2500	13250 - 13400
4.17725 - 4.17775	13.36 - 13.41	167.72 - 173.2	2655 - 2900	14470 - 14500
4.20725 - 4.20775	16.42 - 16.423	240 - 285	3260 - 3267	15350 - 16200
5.677 - 5.683	16.69475 - 16.69525	322 - 335.4	3332 - 3339	17700 - 21400
6.215 - 6.218	16.80425 - 16.80475	399.9 - 410	3345.8 - 3358	22010 - 23120
6.26775 - 6.26825	25.5 - 25.67	608 - 614	3500 - 4400	23600 - 24000
6.31175 - 6.31225	37.5 - 38.25	960 - 1427	4500 - 5150	31200 - 31800
8.291 - 8.294	73 - 74.6	1435 - 1626.5	5350 - 5460	36430 - 36500
8.362 - 8.366	74.8 - 75.2	1645.5 - 1646.5	7250 - 7750	Above 38600

TEST SETUP

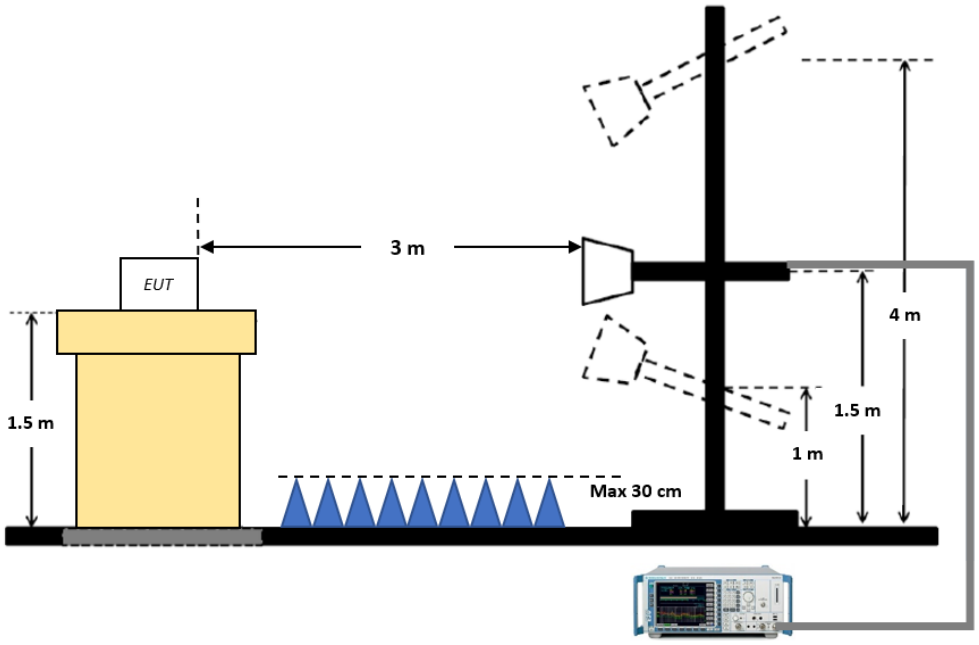
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



TEST PROCEDURE OF RADIATED SPURIOUS EMISSION (BELOW 30 MHz)

Subclause 11.11 and 11.12 in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

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 in detecting antenna.
5. The turntable shall be rotated to 360 degrees to determine the position of maximum emission level.
6. Distance Correction Factor (0.009 MHz – 0.490 MHz) = 40*log(3 m/300 m) = - 80 dB
   Measurement Distance: 3 m
7. Distance Correction Factor (0.490 MHz – 30 MHz) = 40*log(3 m/30 m) = - 40 dB
   Measurement Distance: 3 m
8. Spectrum Setting

   - Frequency Range = 9 kHz ~ 30 MHz
   - Detector = Peak
   - Trace = Max hold
   - RBW = 9 kHz
   - VBW ≥ 3*RBW

9. Total = Reading Value + Antenna Factor (A.F) + Cable Loss (C.L)
10. There is a comparison data both open-field test site and alternative test site – semi-Anechoic chamber according to 414788 D01. And the results are properly calibrated.

TEST PROCEDURE OF RADIATED SPURIOUS EMISSION (30 MHz – 1 GHz)

Subclause 11.11 and 11.12 in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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 0.8 m above ground plane.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. The turntable shall be rotated to 360 degrees to determine the position of maximum emission level.
5. Spectrum Setting

   (1) Measurement Type (Peak):
   - Measured Frequency Range: 30 MHz – 1 GHz
   - Detector = Peak
   - Trace = Max hold
   - RBW = 100 kHz
   - VBW ≥ 3*RBW

   (2) Measurement Type(Quasi-peak):
   - Measured Frequency Range: 30 MHz – 1 GHz
   - Detector = Quasi-Peak
   - RBW = 120 kHz

6. Total = Reading Value + Antenna Factor (A.F) + Cable Loss (C.L)

TEST PROCEDURE OF RADIATED SPURIOUS EMISSION (ABOVE 1 GHz)

Subclause 11.11 and 11.12 in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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 to 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which varies 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 minimum number of traces by a factor of 1/x, where x is the duty cycle.

9. Measurement value only up to 6 maximum emissions noted or would be less if no specific emissions from the EUT are recorded (i.e.: 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 (or 40 GHz whichever comes first)

11. Sample Calculation

    (1) Total (Peak) = Reading Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G)
    (2) Total (Average, Duty ≥ 98%) = Reading Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G)
    (3) Total (Average, Duty < 98%) = Reading Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G) + Duty Cycle Factor

*Additional
For measurements above 1 GHz emission, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for preliminary scan. For final measurements resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz as applicable for average measurements.

Radiated emissions were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

TEST PROCEDURE OF RADIATED RESTRICTED BAND EDGE

Subclause 11.11 and 11.12 in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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

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

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep Time = auto
- Trace mode = Max hold
- Allow sweeps to continue until the trace stabilizes.
- Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle.

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

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

9. Sample Calculation

(1) Total (Peak) = Reading Value + Antenna Factor(A.F) + Cable Loss(C.L)
(2) Total (Average, Duty ≥ 98%) = Reading Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G)
(3) Total (Average, Duty < 98%) = Reading Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G) + Duty Cycle Factor

7.6. AC POWER LINE CONDUCTED EMISSIONS

LIMIT

47 CFR § 15.207 / RSS-GEN Section 8.8
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*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

*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 SETUP

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

TEST PROCEDURE

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

According to FCC KDB 174176 D01 Line Conducted FAQ v01r01 :

Devices Operating Above 30 MHz

For a device with a permanent or detachable antenna operating above 30 MHz, measurements must be performed with the antenna connected as specified in clause 6.2 of ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

Devices Operating Below 30 MHz

For a device with a permanent or detachable antenna operating at or below 30 MHz, the FCC will accept measurements performed with a suitable dummy load in lieu of the antenna under the following conditions:
(1) Perform the AC powerline conducted tests with the antenna connected to determine compliance with Section 15.207 limits outside the transmitter's fundamental emission band;
(2) Retest with a dummy load in lieu of the antenna to determine compliance with Section 15.207 limits within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network which simulates the antenna in the fundamental frequency band. All measurements must be performed as specified in clause 6.2 of ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

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

8. SUMMARY OF TEST RESULTS

Test Description	FCC Part Section(s)	ISED Part Section(s)	Test Limit	Test Condition	Test Result
26dB Bandwidth	§15.407	RSS-Gen, 6.7	N/A (For power measurement) (For Report Purpose only)	Conducted	-
6dB Bandwidth	§15.407(e)		>500 kHz (5725-5850 MHz)(UNII-3)		PASS
Maximum Conducted Output Power	§15.407(a) (1)(2)(3)	RSS-247, 7.3.1.2	cf. Section 7.3		PASS
Power Spectral Density	§15.407(a) (1)(2)(3)	RSS-247, 7.3.1.2	cf. Section 7.4		PASS
AC Power line Conducted Emissions	§15.207 §15.407(b)(9)	RSS-Gen, 8.8	cf. Section 7.7		PASS
Undesirable Emissions	§15.407(b) (1)(2)(3)(4) §15.407(b) (5)(iii)	RSS-247, 7.3.1.3	cf. Section 7.6	Radiated	PASS
Radiated Spurious Emissions	§15.209 §15.407(b)(9)	RSS-Gen, 8.9	cf. Section 7.6		PASS
Radiated Restricted Band Edge	§15.407(b) (9)(10) §15.205	RSS-Gen, 8.10	cf. Section 7.6		PASS

WORST CASE CONFIGURATION

RADIATED TEST

1. EUT Axis

- All X, Y, and Z positions for horizontal / vertical antenna polarization were investigated to find the worst-case position.
- Z position was selected for the final evaluation.

2. Operations with all the data rates available were investigated for each different channel BW mode. Lowest data rate was selected as the worst case.

CONDUCTED TEST

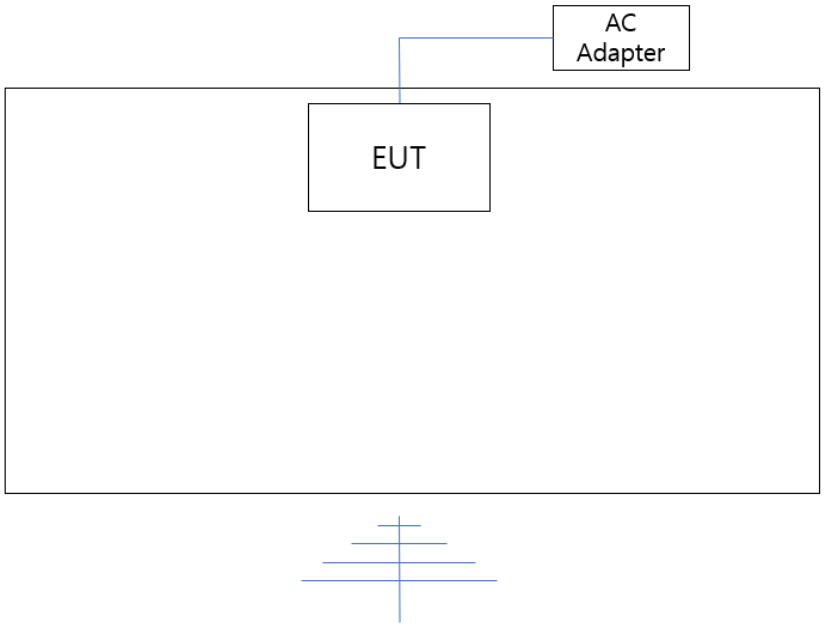
1. AC line conducted emission test was performed at the worst-case transmission mode.

WORST CASE DATA RATES AS PROVIDED BY THE MANUFACTURER WERE:

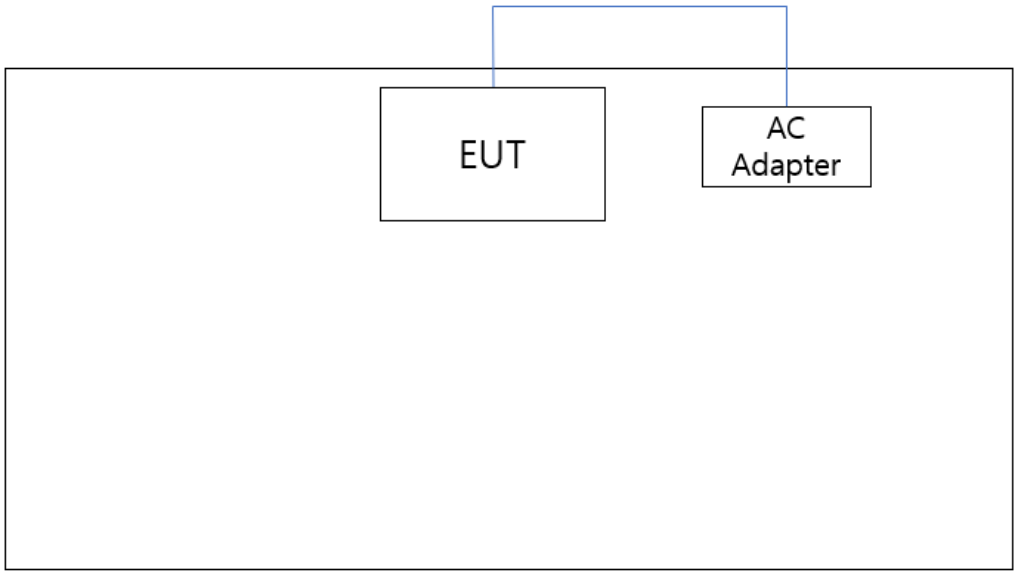
Mode	Worst Case Data Rate
802.11a	6 Mbps
802.11n	MCS0
802.11ac	MCS0

TEST CONFIGURATION

Radiated Emission



Conducted Emission



LIST OF SUPPORT EQUIPMENT

Equipment Type	Model No.	Serial No.	Manufacturer	Qty	Note
AC adaptor	C210001	ICES-003	eero LLC	1	

9. TEST RESULT

9.1 DUTY CYCLE

Duty cycle is 100 % continuous.

9.2 26 dB BANDWIDTH / 99% BANDWIDTH

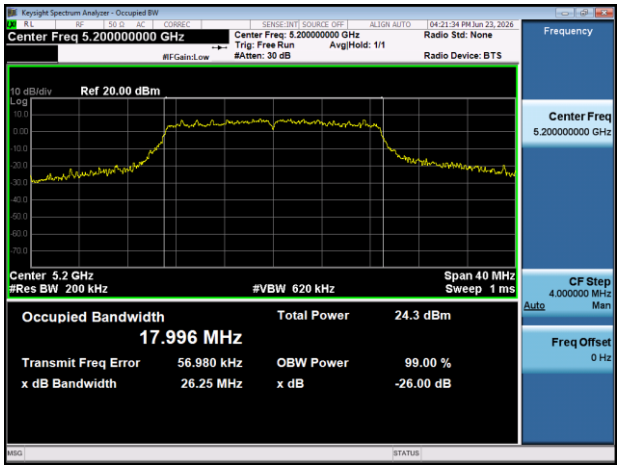
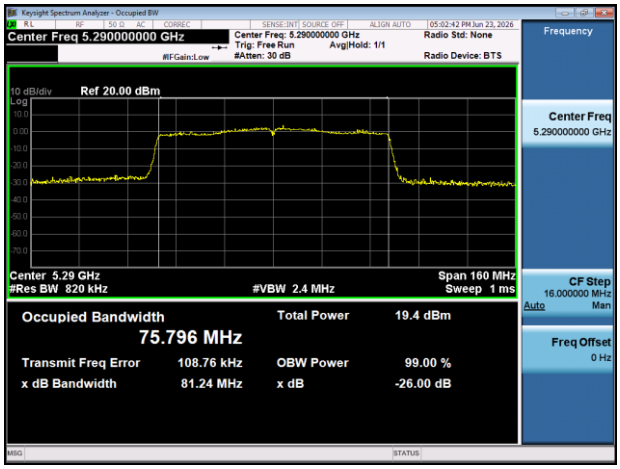
Mode: 802.11a			99% Bandwidth (MHz)	26 dB Bandwidth (MHz)
Band	Frequency (MHz)	Channel		
UNII1	5180	36	16.690	21.280
	5200	40	16.966	24.370
	5240	48	16.956	26.480
UNII2A	5260	52	16.659	21.250
	5300	60	16.963	25.010
	5320	64	16.716	21.250
UNII2C	5500	100	16.692	21.160
	5600	120	16.709	21.280
	5700	140	16.705	21.240

Mode: 802.11n(HT20)			99% Bandwidth (MHz)	26 dB Bandwidth (MHz)
Band	Frequency (MHz)	Channel		
UNII1	5180	36	17.864	21.570
	5200	40	17.996	26.250
	5240	48	17.935	24.400
UNII2A	5260	52	17.837	21.400
	5300	60	17.962	26.420
	5320	64	17.782	21.330
UNII2C	5500	100	17.852	21.330
	5600	120	17.816	21.700
	5700	140	17.805	21.690

Mode: 802.11n(HT40)			99% Bandwidth (MHz)	26 dB Bandwidth (MHz)
Band	Frequency (MHz)	Channel		
UNII1	5190	38	36.319	39.790
	5230	46	36.431	57.810
UNII2A	5270	54	36.406	58.010
	5310	62	36.252	39.840
UNII2C	5510	102	36.261	39.590
	5590	118	36.269	39.710
	5670	134	36.272	39.850

Mode: 802.11ac(VHT80)			99% Bandwidth (MHz)	26 dB Bandwidth (MHz)
Mode	Frequency (MHz)	Channel		
UNII1	5210	42	75.638	81.300
UNII2A	5290	58	75.796	81.240
UNII2C	5530	106	75.688	81.210
	5610	122	75.753	81.620

▣ TEST PLOTS

26 dB OBW	
802.11a **5200 MHz**	**802.11n HT20** **5200 MHz**
	
802.11n HT40 **5230 MHz**	**802.11ac VHT80** **5290 MHz**
	

Note:

1. To simplify the report, attached plots were only the widest 26 dB BW Channel

9.3 6 dB BANDWIDTH / 99% BANDWIDTH

Mode: 802.11a			6dB Bandwidth (MHz)	Limit (MHz)
Mode	Frequency (MHz)	Channel		
UNII3	5745	149	16.310	> 0.5
	5785	157	16.050	> 0.5
	5825	165	16.310	> 0.5

Mode: 802.11n(HT20)			6dB Bandwidth (MHz)	Limit (MHz)
Mode	Frequency (MHz)	Channel		
UNII3	5745	149	17.050	> 0.5
	5785	157	17.180	> 0.5
	5825	165	17.550	> 0.5

Mode: 802.11n(HT40)			6dB Bandwidth (MHz)	Limit (MHz)
Mode	Frequency (MHz)	Channel		
UNII3	5755	151	35.470	> 0.5
	5795	159	35.760	> 0.5

Mode: 802.11ac(VHT80)			6dB Bandwidth (MHz)	Limit (MHz)
Mode	Frequency (MHz)	Channel		
UNII3	5775	155	75.490	> 0.5

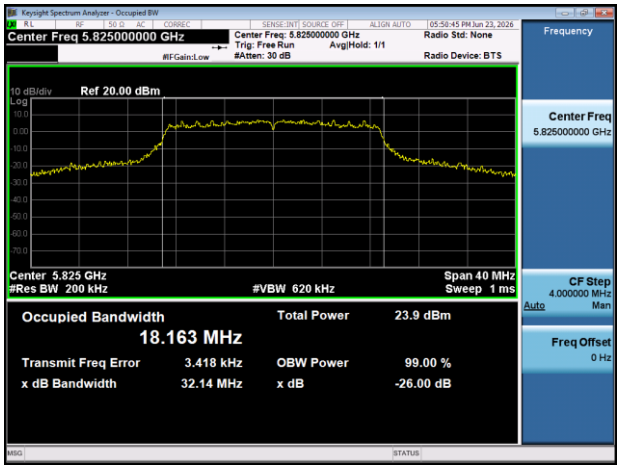
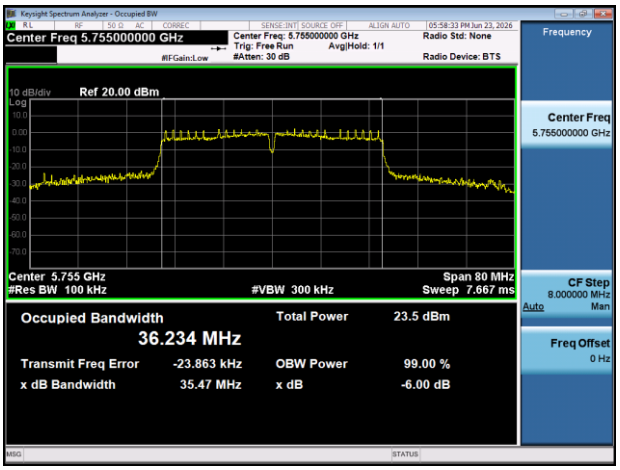
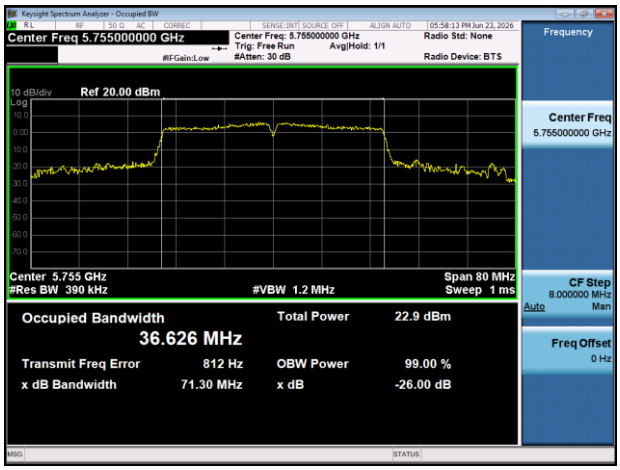
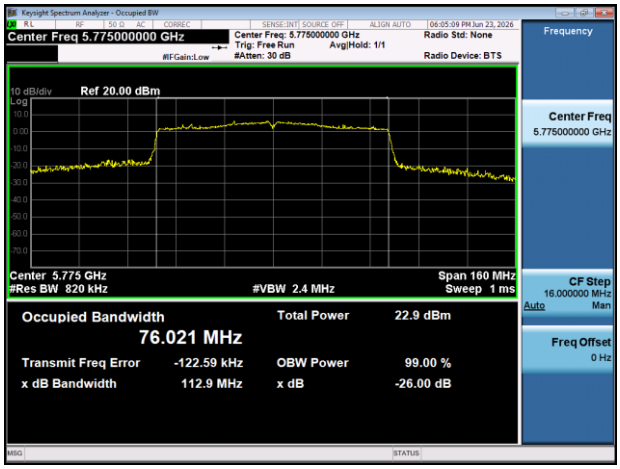
Mode: 802.11a			99% Bandwidth (MHz)
Mode	Frequency (MHz)	Channel	
UNII3	5745	149	17.247
	5785	157	17.300
	5825	165	17.280

Mode: 802.11n(HT20)			99% Bandwidth (MHz)
Mode	Frequency (MHz)	Channel	
UNII3	5745	149	18.093
	5785	157	18.107
	5825	165	18.163

Mode: 802.11n(HT40)			99% Bandwidth (MHz)
Mode	Frequency (MHz)	Channel	
UNII3	5755	151	36.626
	5795	159	36.591

Mode: 802.11ac(VHT80)			99% Bandwidth (MHz)
Mode	Frequency (MHz)	Channel	
UNII3	5775	155	76.021

▣ TEST PLOTS(ANT1)

6 dB OBW	99% Bandwidth
802.11n(HT20) 5745 MHz	802.11n(HT20) 5825 MHz
	
802.11n(HT40) 5755 MHz	802.11n(HT40) 5755 MHz
	
802.11ac(VHT80) 5775 MHz	802.11ac(VHT80) 5775 MHz
	

Note:

1. To simplify the report, attached plots were only the worst-case BW Channel

9.4 OUTPUT POWER

[ANT1]

Mode: 802.11a				Test Result(dBm)		FCC Limit (dBm)	ISED Limit(1) (dBm)
Band	Frequency (MHz)	Channel	Date Rate	Conducted Power	EIRP		
UNII1	5180	36	6 Mbps	12.489	19.899	24.00	22.25 e.i.r.p
	5200	40	6 Mbps	12.559	19.969	24.00	22.24 e.i.r.p
	5240	48	6 Mbps	11.760	19.170	24.00	22.24 e.i.r.p
UNII2A	5260	52	6 Mbps	8.649	-	23.23	23.23
	5300	60	6 Mbps	17.105	-	23.23	23.23
	5320	64	6 Mbps	14.112	-	23.23	23.23
UNII2C	5500	100	6 Mbps	10.53	-	23.23	23.23
	5600	120	6 Mbps	10.92	-	23.32	23.32
	5700	140	6 Mbps	10.94	-	23.31	23.31
UNII3	5745	149	6 Mbps	16.696	-	30.00	30.00
	5785	157	6 Mbps	16.681	-	30.00	30.00
	5825	165	6 Mbps	16.581	-	30.00	30.00

Mode: 802.11n(HT20)				Test Result(dBm)		FCC Limit (dBm)	ISED Limit(1) (dBm)
Band	Frequency (MHz)	Channel	Date Rate	Conducted Power	EIRP		
UNII1	5180	36	MCS0	12.112	19.522	24.00	22.51 e.i.r.p
	5200	40	MCS0	12.199	19.609	24.00	22.51 e.i.r.p
	5240	48	MCS0	12.391	19.801	24.00	22.51 e.i.r.p
UNII2A	5260	52	MCS0	6.259	-	23.50	23.50
	5300	60	MCS0	16.713	-	23.50	23.50
	5320	64	MCS0	14.837	-	23.51	23.51
UNII2C	5500	100	MCS0	10.88	-	23.52	23.51
	5600	120	MCS0	10.66	-	23.52	23.52
	5700	140	MCS0	10.62	-	23.52	23.52
UNII3	5745	149	MCS0	16.544	-	30.00	30.00
	5785	157	MCS0	16.428	-	30.00	30.00
	5825	165	MCS0	16.356	-	30.00	30.00

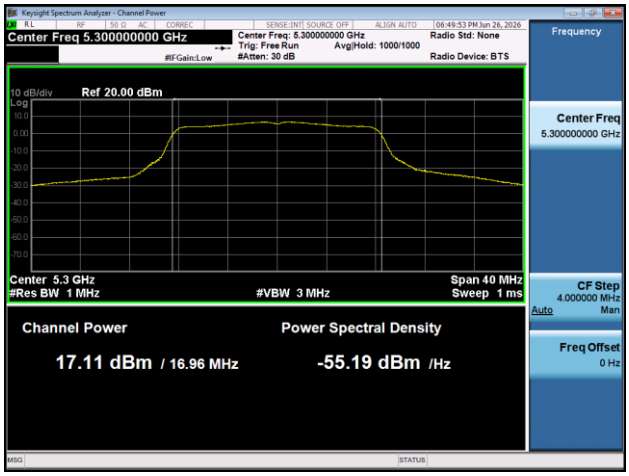
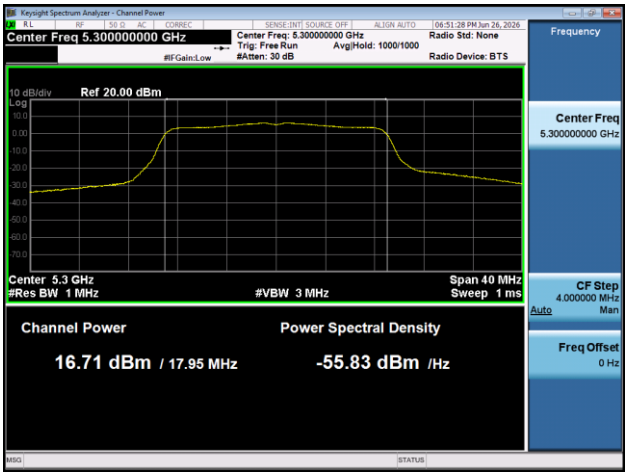
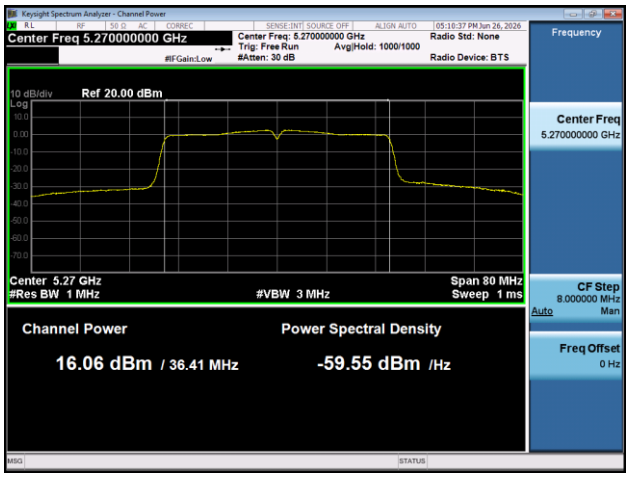
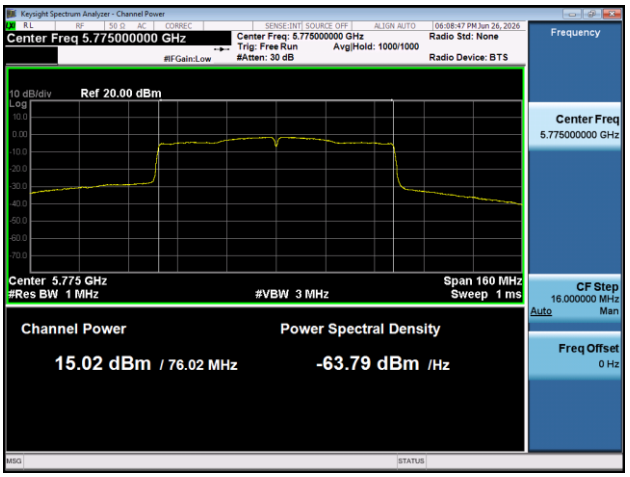
Mode: 802.11n(HT40)				Test Result(dBm)		FCC Limit (dBm)	ISED Limit(1) (dBm)
Mode	Frequency (MHz)	Channel	Date Rate	Conducted Power	EIRP		
UNII1	5190	38	MCS0	13.160	20.57	24.00	23 e.i.r.p
	5230	46	MCS0	15.059	22.469	24.00	23 e.i.r.p
UNII2A	5270	54	MCS0	16.058	-	24.00	24.00
	5310	62	MCS0	12.820	-	24.00	24.00
UNII2C	5510	102	MCS0	10.09	-	24.00	24.00
	5590	118	MCS0	9.53	-	24.00	24.00
	5670	134	MCS0	9.46	-	24.00	24.00
UNII3	5755	151	MCS0	15.661	-	30.00	30.00
	5795	159	MCS0	15.668	-	30.00	30.00

Mode: 802.11ac (VHT80)				Test Result(dBm)		FCC Limit (dBm)	ISED Limit(1) (dBm)
Mode	Frequency (MHz)	Channel	Date Rate	Conducted Power	EIRP		
UNII1	5210	42	MCS0	9.093	16.503	24.00	23 e.i.r.p
UNII2A	5290	58	MCS0	12.592	-	24.00	24.00
UNII2C	5530	106	MCS0	9.53	-	24.00	24.00
	5610	122	MCS0	9.22	-	24.00	24.00
UNII3	5775	155	MCS0	15.020	-	30.00	30.00

Note:

1. ISED limit: MIN [10 log(200 mW = 23.01 dBm), 10+10log(99% Bandwidth)] for UNII1
2. Directional Antenna Gain: 7.41 dBi
3. EIRP = Conducted Power + Directional Antenna Gain
4. Duty factor is not applied since the duty cycle is 100 %.

▣ TEST PLOTS

Output Power	
11a 5300 MHz	**11n HT20 5300 MHz**
	
11n HT40 5270 MHz	**11ac VHT80 5775 MHz**
	

Note:

1. The worst plots are reported for test results

9.5 POWER SPECTRAL DENSITY

Mode: 802.11a				Test Result(dBm/MHz)		FCC Limit (dBm/MHz)	ISED EIRP Limit (dBm/MHz)
Band	Frequency (MHz)	Channel	Date Rate	Total PSD[1]	Max EIRP		
UNII1	5180	36	MCS0	2.49	9.90	11.00	10 e.i.r.p
	5200	40	MCS0	2.48	9.89	11.00	10 e.i.r.p
	5240	48	MCS0	1.90	9.31	11.00	10 e.i.r.p
UNII2A	5260	52	MCS0	-1.33	-	11.00	11.00
	5300	60	MCS0	7.07	-	11.00	11.00
	5320	64	MCS0	4.09	-	11.00	11.00
UNII2C	5500	100	MCS0	0.595	-	11.00	11.00
	5600	120	MCS0	1.019	-	11.00	11.00
	5700	140	MCS0	1.049	-	11.00	11.00
UNII3	5745	149	MCS0	4.09	-	30 dBm/500 kHz	30 dBm/500 kHz
	5785	157	MCS0	4.10	-	30 dBm/500 kHz	30 dBm/500 kHz
	5825	165	MCS0	4.06	-	30 dBm/500 kHz	30 dBm/500 kHz

Mode: 802.11n(HT20)				Test Result(dBm/MHz)		FCC Limit (dBm/MHz)	ISED EIRP Limit (dBm/MHz)
Band	Frequency (MHz)	Channel	Date Rate	Total PSD[1]	Max EIRP		
UNII1	5180	36	MCS0	1.942	9.352	11.00	10 e.i.r.p
	5200	40	MCS0	2.073	9.483	11.00	10 e.i.r.p
	5240	48	MCS0	2.127	9.537	11.00	10 e.i.r.p
UNII2A	5260	52	MCS0	-3.952	-	11.00	11.00
	5300	60	MCS0	6.689	-	11.00	11.00
	5320	64	MCS0	4.770	-	11.00	11.00
UNII2C	5500	100	MCS0	0.654	-	11.00	11.00
	5600	120	MCS0	0.359	-	11.00	11.00
	5700	140	MCS0	0.565	-	11.00	11.00
UNII3	5745	149	MCS0	3.625	-	30 dBm/500 kHz	30 dBm/500 kHz
	5785	157	MCS0	3.600	-	30 dBm/500 kHz	30 dBm/500 kHz
	5825	165	MCS0	3.405	-	30 dBm/500 kHz	30 dBm/500 kHz

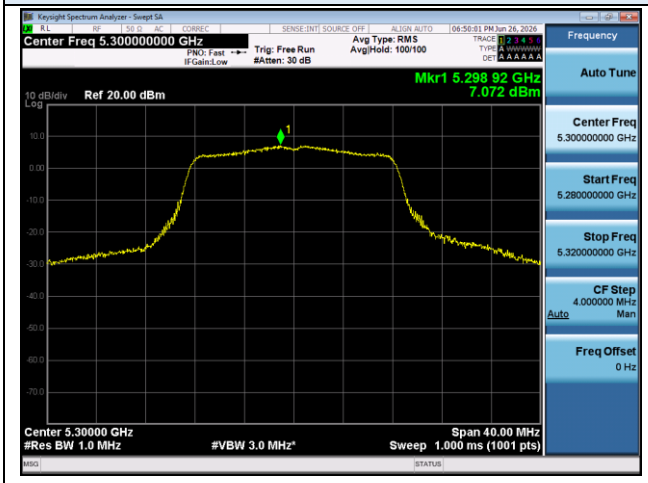
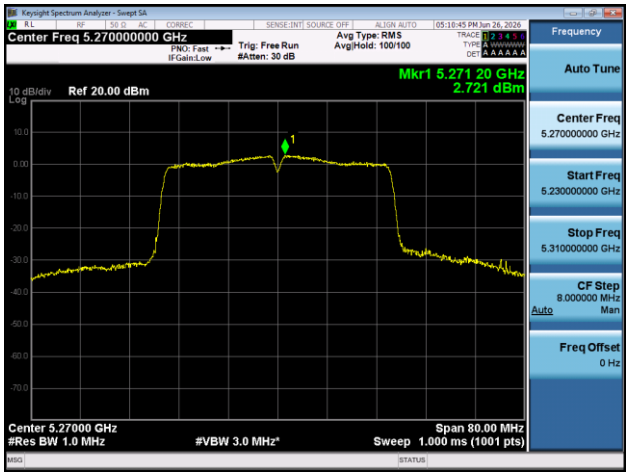
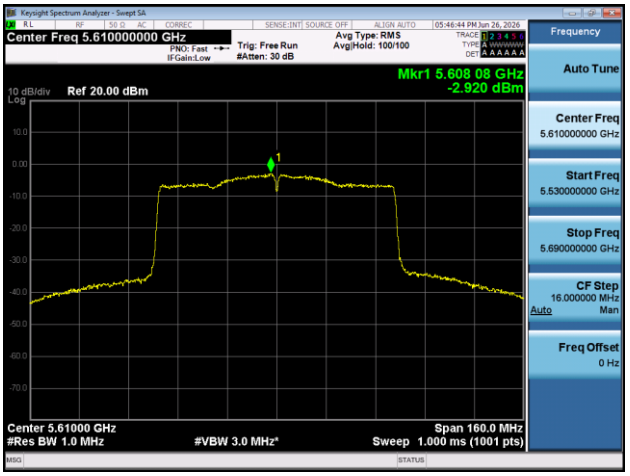
Mode: 802.11n(HT40)				Test Result(dBm/MHz)		FCC Limit (dBm/MHz)	ISED EIRP Limit (dBm/MHz)
Band	Frequency (MHz)	Channel	Date Rate	Total PSD[1]	Max EIRP		
UNII1	5190	38	MCS0	-0.033	7.377	11.00	10 e.i.r.p
	5230	46	MCS0	1.833	9.243	11.00	10 e.i.r.p
UNII2A	5270	54	MCS0	2.721	-	11.00	11.00
	5310	62	MCS0	-0.384	-	11.00	11.00
UNII2C	5510	102	MCS0	-2.980	-	11.00	11.00
	5590	118	MCS0	-3.759	-	11.00	11.00
	5670	134	MCS0	-3.803	-	11.00	11.00
UNII3	5755	151	MCS0	-0.371	-	30 dBm/500 kHz	30 dBm/500 kHz
	5795	159	MCS0	-0.565	-	30 dBm/500 kHz	30 dBm/500 kHz

Mode: 802.11ac(VHT80)				Test Result(dBm/MHz)		FCC Limit (dBm/MHz)	ISED EIRP Limit (dBm/MHz)
Band	Frequency (MHz)	Channel	Date Rate	Total PSD[1]	Max EIRP		
UNII1	5210	42	MCS0	-6.846	0.564	11.00	10 e.i.r.p
UNII2A	5290	58	MCS0	-3.58	-	11.00	11.00
UNII2C	5530	106	MCS0	-6.629	-	11.00	11.00
	5610	122	MCS0	-6.873	-	11.00	11.00
UNII3	5775	155	MCS0	-3.68	-	30 dBm/500 kHz	30 dBm/500 kHz

Note:

1. Duty factor is not applied since the duty cycle is 100 %.
2. Directional Antenna Gain = 7.41 dBi
3. Max EIRP = Total PSD + Directional Antenna Gain

▣ TEST PLOTS(ANT1)

Power Spectral Density	
802.11a	**802.11n(HT20)**
5300 MHz	**5300 MHz**
	
802.11(HT40)	**802.11ac(VHT80)**
5270 MHz	**5610 MHz**
	

Note:

1. The worst plots are reported for test results

9.6 RADIATED SPURIOUS EMISSIONS

Frequency Range: 9 kHz ~ 30 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. [1)] (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
No major peaks found							

Note(s):

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

Frequency Range: Below 1 GHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. [1)] (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
No major peaks found							

Note(s):

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

Frequency Range: Above 1 GHz

{WLAN5G_5G_RSE_Value_Result}

Band	Test Mode	Test Frequency (MHz)	Frequency (MHz)	PK Level	PK Limit	PK Margin	AV Level	AV Limit	AV Margin	Factor	Polarization
UNII1	802.11a	5180	10 359.96	57.03	68.2	11.17	44.28	54	9.72	4.31	V
			10 364.22	56.09	68.2	12.11	43.6	54	10.4	4.31	H
			15 536.05	57.42	74	16.58	45.26	54	8.74	6.71	H
			15 542.28	57.21	74	16.79	45.1	54	8.9	6.92	V
		5200	10 401.65	56.4	68.2	11.8	43.86	54	10.14	4.33	H
			10 403.10	55.99	68.2	12.21	43.33	54	10.67	4.35	V
			15 596.02	57.37	74	16.63	45.31	54	8.69	6.91	V
			15 597.34	57.46	74	16.54	45.09	54	8.91	6.74	H
		5240	10 478.93	55.18	68.2	13.02	43.08	54	10.92	4.5	H
			10 479.70	56.04	68.2	12.16	43.18	54	10.82	4.53	V
			15 717.71	59.96	74	14.04	47.62	54	6.38	6.51	H
			15 719.69	59.36	74	14.64	46.73	54	7.27	6.67	V
	802.11n (HT20)	5180	10 354.40	55.15	68.2	13.05	42.79	54	11.21	4.28	H
			10 364.86	56.34	68.2	11.85	43.65	54	10.35	4.31	V
			15 538.45	57.63	74	16.37	45.13	54	8.87	6.91	V
			15 545.30	57.45	74	16.55	44.9	54	9.1	6.73	H
		5200	10 403.70	56.48	68.2	11.72	43.56	54	10.44	4.35	H
			10 404.19	55.47	68.2	12.73	42.72	54	11.28	4.36	V
			15 610.45	57.62	74	16.38	45.18	54	8.82	6.71	H
			15 608.47	57.79	74	16.21	45.35	54	8.65	6.89	V
		5240	10 475.12	59.12	68.2	9.08	45.33	54	8.67	4.53	H
			10 480.29	55.88	68.2	12.32	43.69	54	10.31	4.53	V
			15 539.56	56.8	74	17.2	44.91	54	9.09	6.74	H
			15 546.75	57.54	74	16.46	45.08	54	8.92	6.91	V
	802.11n (HT40)	5190	10 379.80	55.1	68.2	13.1	42.75	54	11.25	4.24	H
			10 383.04	55.49	68.2	12.71	42.75	54	11.25	4.25	V
			15 569.71	57.09	74	16.91	44.97	54	9.03	6.64	H
			15 573.34	57.24	74	16.76	45.17	54	8.83	6.83	V
		5230	10 457.73	55.07	68.2	13.13	42.74	54	11.26	4.49	H
			10 460.07	54.99	68.2	13.21	42.88	54	11.12	4.54	V
			15 690.00	57.58	74	16.42	44.91	54	9.09	6.58	H
			15 690.00	57.64	74	16.36	45.12	54	8.88	6.75	V
	802.11ac (VHT80)	5210	10 417.21	55.03	68.2	13.17	42.68	54	11.32	4.39	V
			10 423.90	54.81	68.2	13.39	42.72	54	11.28	4.38	H
			15 630.73	57.85	74	16.15	45.51	54	8.49	6.81	V
			15 631.67	57.38	74	16.62	45.32	54	8.68	6.63	H

Band	Test Mode	Test Frequency (MHz)	Frequency (MHz)	PK Level	PK Limit	PK Margin	AV Level	AV Limit	AV Margin	Factor	Polarization
UNII2	802.11a	5260	10 521.27	61.11	68.2	7.09	48.03	54	5.97	4.66	H
			10 522.34	60.11	68.2	8.09	46.16	54	7.84	4.7	V
			15 774.11	62.09	74	11.91	48.73	54	5.27	6.38	H
			15 782.12	58.64	74	15.36	45.8	54	8.2	6.49	V
		5300	10 596.34	58.83	68.2	9.37	45.58	54	8.42	4.88	V
			10 602.42	61.46	74	12.54	47.29	54	6.71	4.88	H
			15 896.14	61.17	74	12.83	48.83	54	5.17	6.45	H
			15 901.34	60.67	74	13.33	47.73	54	6.27	6.59	V
		5320	10 637.21	61.36	74	12.64	47.98	54	6.02	5.07	H
			10 639.13	60.8	74	13.2	46.38	54	7.62	5.08	V
			15 956.13	62.42	74	11.58	50.22	54	3.78	6.53	H
			15 958.34	58.6	74	15.4	46	54	8	6.68	V
		5500	10 997.71	59.17	74	14.83	46.45	54	7.55	5.36	V
			10 999.72	61.54	74	12.46	49.1	54	4.9	5.34	H
			16 495.39	59.33	68.2	8.87	47.07	54	6.93	6.21	V
			16 500.02	62.55	68.2	5.65	50.49	54	3.51	6.07	H
		5600	11 154.40	58.51	74	15.49	46.32	54	7.68	5.28	V
			11 157.30	60.13	74	13.87	47.49	54	6.51	5.33	H
			16 733.19	57.43	68.2	10.77	45.22	54	8.78	5.86	V
			16 735.67	60.6	68.2	7.6	48.02	54	5.98	5.79	H
		5700	11 401.34	58.82	74	15.18	46.32	54	7.68	5.42	V
			11 404.44	58.19	74	15.81	45.94	54	8.06	5.38	H
			17 098.90	56.47	68.2	11.73	44.22	54	9.78	5.67	V
			17 098.99	57.1	68.2	11.1	43.98	54	10.02	5.56	H

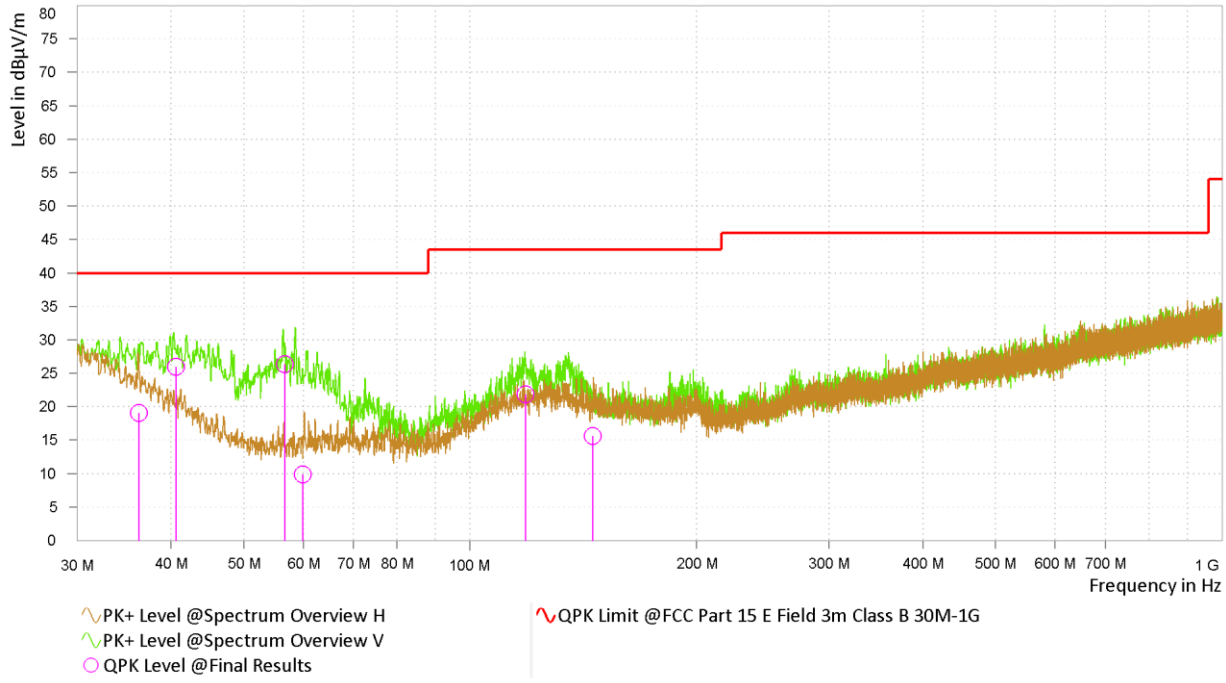
Band	Test Mode	Test Frequency (MHz)	Frequency (MHz)	PK Level	PK Limit	PK Margin	AV Level	AV Limit	AV Margin	Factor	Polarization
UNII2	802.11n (HT20)	5260	10 517.32	59.71	68.2	8.49	45.92	54	8.08	4.64	H
			10 520.26	56.66	68.2	11.54	43.79	54	10.21	4.68	V
			15 774.32	59.62	74	14.38	46.78	54	7.22	6.53	V
			15 779.54	59.77	74	14.23	47.09	54	6.91	6.33	H
		5300	10 599.03	58.13	68.2	10.07	44.99	54	9.01	4.88	V
			10 603.19	61.34	74	12.66	46.8	54	7.2	4.88	H
			15 893.44	61.99	74	12.01	48.49	54	5.51	6.45	H
			15 895.14	59.39	74	14.61	46.87	54	7.13	6.59	V
		5320	10 638.85	60.15	74	13.85	46.48	54	7.52	5.07	V
			10 644.43	60.65	74	13.35	47.2	54	6.8	5.06	H
			15 957.07	58.97	74	15.03	46.18	54	7.82	6.66	V
			15 958.61	63.33	74	10.67	49.8	54	4.2	6.55	H
		5500	10 995.39	61.24	74	12.76	47.46	54	6.54	5.38	V
			11 000.13	62.31	74	11.69	48.81	54	5.19	5.34	H
			16 493.73	58.68	68.2	9.52	46	54	8	6.22	V
			16 503.19	62.95	68.2	5.25	50.01	54	3.99	6.08	H
		5600	11 152.43	59.03	74	14.97	46.01	54	7.99	5.28	V
			11 161.29	60.2	74	13.8	47.19	54	6.81	5.32	H
			16 732.25	57.25	68.2	10.95	44.81	54	9.19	5.86	V
			16 737.87	60.81	68.2	7.39	47.82	54	6.18	5.8	H
		5700	11 397.19	58.35	74	15.65	46	54	8	5.37	H
			11 400.75	59.21	74	14.79	46.16	54	7.84	5.41	V
			17 111.98	56.74	68.2	11.46	44.34	54	9.66	5.92	V
			17 116.27	56.4	68.2	11.8	44.2	54	9.8	5.82	H

Band	Test Mode	Test Frequency (MHz)	Frequency (MHz)	PK Level	PK Limit	PK Margin	AV Level	AV Limit	AV Margin	Factor	Polarization
UNII2	802.11n (HT40)	5270	10 537.53	56.93	68.2	11.27	43.83	54	10.17	4.68	H
			10 535.20	55.69	68.2	12.51	43.38	54	10.62	4.73	V
			15 814.49	58.48	74	15.52	46.2	54	7.8	6.33	H
			15 813.64	57.39	74	16.61	44.79	54	9.21	6.49	V
		5310	10 614.80	58.91	74	15.09	44.3	54	9.7	4.94	H
			10 619.75	55.89	74	18.11	43.23	54	10.77	4.97	V
			15 929.04	57.62	74	16.38	45.35	54	8.65	6.56	V
			15 930.59	59.29	74	14.71	46.96	54	7.04	6.43	H
		5510	11 018.59	57.24	74	16.76	44.84	54	9.16	5.42	H
			11 020.81	57.12	74	16.88	44.52	54	9.48	5.43	V
			16 531.15	57.03	68.2	11.17	45.11	54	8.89	6.12	V
			16 537.07	59.31	68.2	8.89	46.94	54	7.06	5.97	H
		5590	11 178.47	56.26	74	17.74	43.71	54	10.29	5.33	V
			11 181.14	56.46	74	17.54	43.77	54	10.23	5.38	H
			16 763.75	57.67	68.2	10.53	44.56	54	9.44	5.64	V
			16 777.74	56.64	68.2	11.56	44.73	54	9.27	5.81	H
		5670	11 342.85	56.01	74	17.99	43.64	54	10.36	5.42	V
			11 344.65	56.54	74	17.46	44.41	54	9.59	5.4	H
			17 006.63	57.61	68.2	10.59	44.98	54	9.02	6.04	V
			17 006.75	57.55	68.2	10.65	45	54	9	5.95	H
	802.11ac (VHT80	5290	10 580.15	55.66	68.2	12.54	43.48	54	10.52	4.84	V
			10 583.01	55.53	68.2	12.67	43.27	54	10.73	4.85	H
			15 869.46	57.16	74	16.84	45.23	54	8.77	6.41	H
			15 877.83	58.05	74	15.95	45.52	54	8.48	6.56	V
		5530	11 056.14	56.63	74	17.37	44.11	54	9.89	5.36	H
			11 061.83	55.95	74	18.05	43.58	54	10.42	5.36	V
			16 586.49	57.92	68.2	10.28	44.89	54	9.11	5.94	H
			16 589.75	57.36	68.2	10.84	45.01	54	8.99	6.06	V
		5610	11 213.58	56.06	74	17.94	43.74	54	10.26	5.34	H
			11 214.79	56.11	74	17.89	43.74	54	10.26	5.32	V
			16 831.62	56.85	68.2	11.35	44.49	54	9.51	5.69	V
			16 831.84	57.49	68.2	10.71	44.85	54	9.15	5.62	H

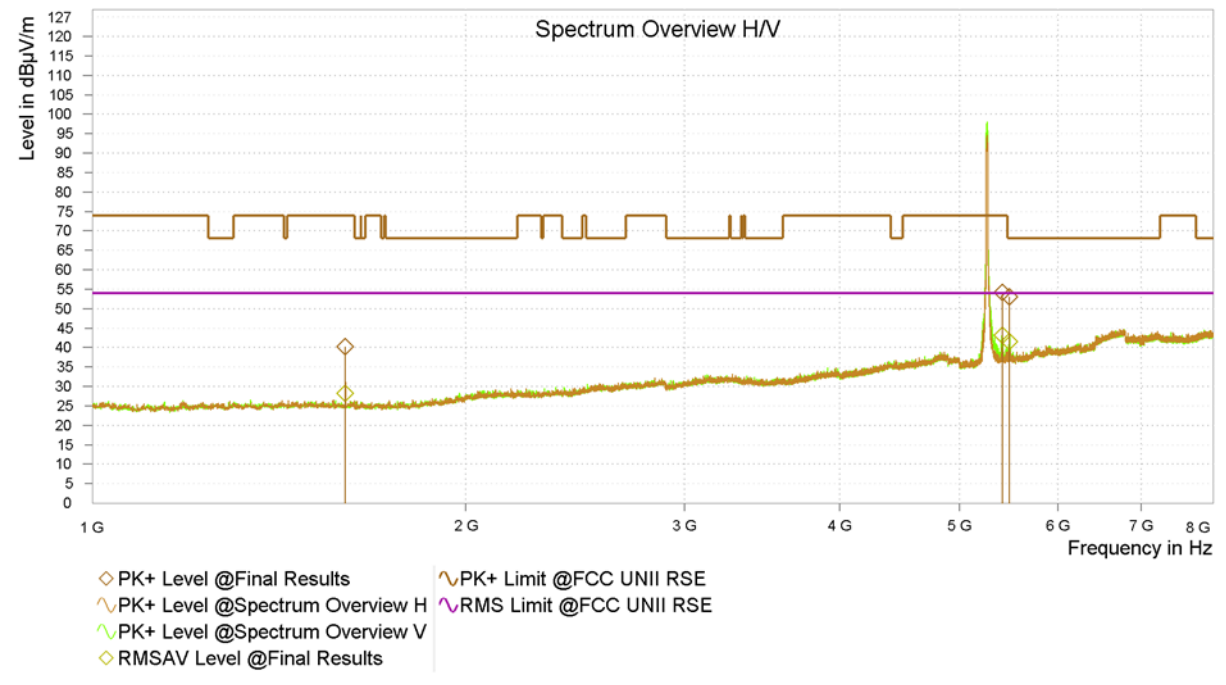
Band	Test Mode	Test Frequency (MHz)	Frequency (MHz)	PK Level	PK Limit	PK Margin	AV Level	AV Limit	AV Margin	Factor	Polarization
UNII3	802.11a	5745	11 491.89	58.97	74	15.03	46.52	54	7.48	5.19	V
			11 495.88	58.56	74	15.44	45.41	54	8.59	5.15	H
			17 237.02	57.05	68.2	11.15	44.81	54	9.19	5.96	H
			17 243.72	57.17	68.2	11.03	44.94	54	9.06	6.09	V
		5785	11 570.79	58.8	74	15.2	46.49	54	7.51	4.91	V
			11 573.17	59.14	74	14.86	46.46	54	7.54	4.92	H
			17 352.93	58.67	68.2	9.53	45.32	54	8.68	6.2	H
			17 369.65	58.13	68.2	10.07	45.51	54	8.49	6.44	V
		5825	11 648.04	58.22	74	15.78	45.65	54	8.35	4.67	V
			11 648.33	58.77	74	15.23	45.98	54	8.02	4.7	H
			17 466.56	57.91	68.2	10.29	45.6	54	8.4	6.44	H
			17 469.29	57.91	68.2	10.29	45.77	54	8.23	6.6	V
	802.11n (HT20)	5745	11 491.16	58.12	74	15.88	45.61	54	8.39	5.16	H
			11 495.25	58.36	74	15.64	45.43	54	8.57	5.18	V
			17 234.30	57.05	68.2	11.15	44.74	54	9.26	5.93	H
			17 238.64	57.19	68.2	11.01	45.02	54	8.98	6.11	V
		5785	11 564.00	59.06	74	14.94	45.86	54	8.14	4.95	V
			11 569.68	59.28	74	14.72	46.05	54	7.95	4.92	H
			17 344.59	57.99	68.2	10.21	45.52	54	8.48	6.32	V
			17 355.67	58.2	68.2	10	45.3	54	8.7	6.22	H
		5825	11 651.17	58.72	74	15.28	46.08	54	7.92	4.68	H
			11 656.68	57.97	74	16.03	44.85	54	9.15	4.66	V
			17 475.37	58.72	68.2	9.48	45.72	54	8.28	6.61	V
			17 475.40	57.9	68.2	10.3	45.59	54	8.41	6.48	H
	802.11n (HT40)	5755	11 509.57	56.87	74	17.13	44.41	54	9.59	5.13	H
			11 510.96	56.92	74	17.08	44.53	54	9.47	5.15	V
			17 624.85	57.78	68.2	10.42	45.42	54	8.58	6.77	V
			17 629.68	57.61	68.2	10.59	45.28	54	8.72	6.62	H
		5795	11 590.59	56.74	74	17.26	44.18	54	9.82	4.8	V
			11 592.12	56.49	74	17.51	43.94	54	10.06	4.81	H
			17 379.76	58.74	68.2	9.46	45.54	54	8.46	6.44	V
			17 387.94	57.39	68.2	10.81	45.42	54	8.58	6.29	H
	802.11ac (VHT80)	5775	11 623.98	55.98	74	18.02	43.52	54	10.48	4.71	V
			11 627.55	54.93	74	19.07	43.09	54	10.91	4.72	H
			17 444.53	57.82	68.2	10.38	45.65	54	8.35	6.49	V
			17 445.86	58.21	68.2	9.99	45.53	54	8.47	6.36	H

▣ TEST PLOTS

Radiated Spurious Emission 30 MHz - 1 GHz: Worst Case



Radiated Spurious Emission 1 GHz - 8 GHz: 802.11a 5260 MHz (CH 52)

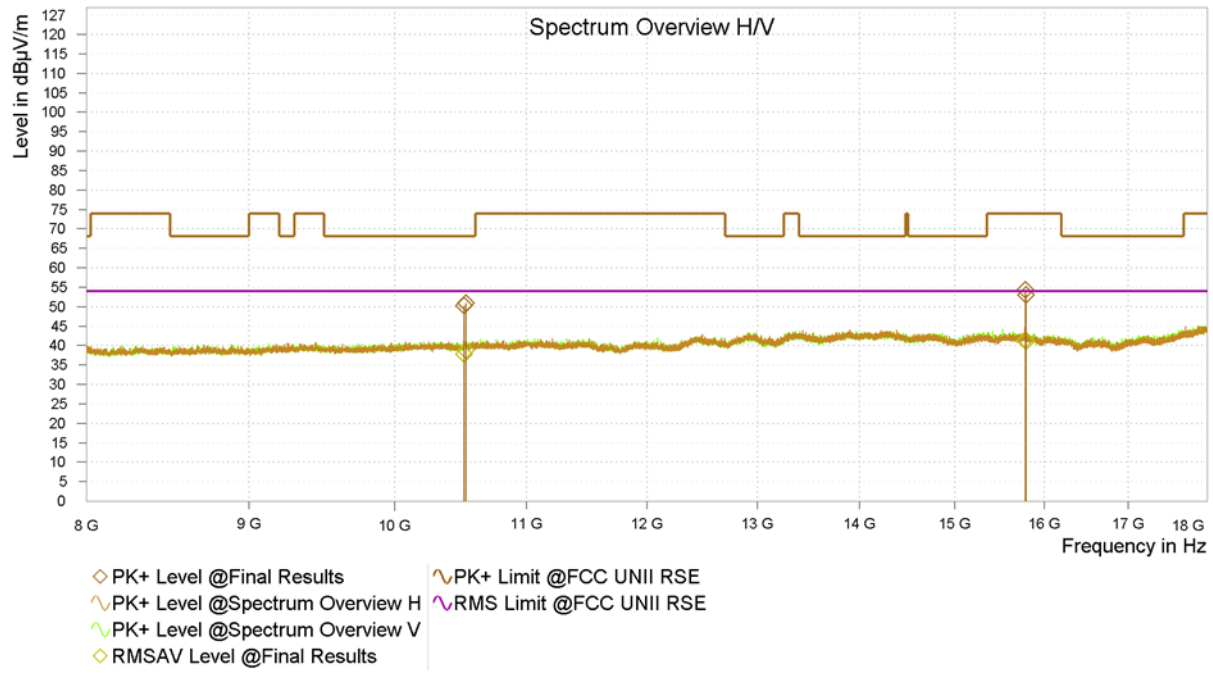


Note:

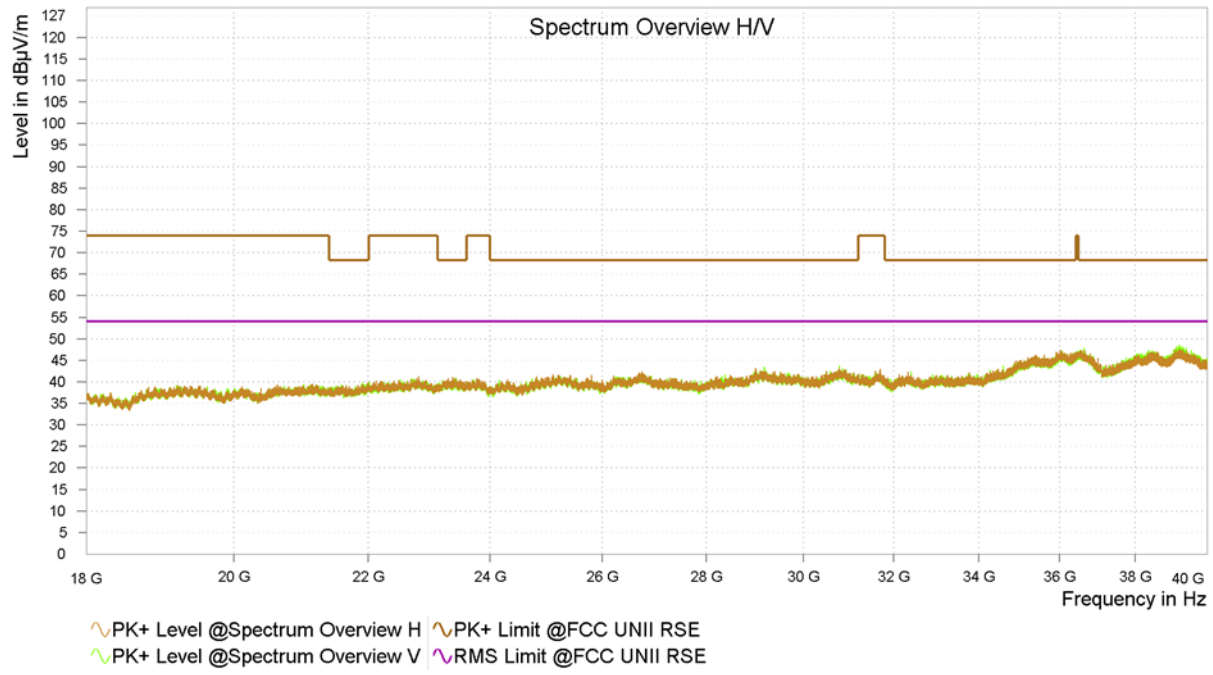
1. The plots include all used factor values for cables, antenna, preamplifier, etc.
2. All modes of operation were investigated and the worst-case configuration results are reported in this section.

▣ TEST PLOTS

Radiated Spurious Emission 8 GHz - 18 GHz: 802.11a 5260 MHz (CH 52)



Radiated Spurious Emission 18 GHz - 40 GHz: Worst Case



Note:

1. The plots include all used factor values for cables, antenna, preamplifier, etc.
2. All modes of operation were investigated, and the worst-case configuration results are reported in this section.

9.7 RADIATED RESTRICTED BAND EDGES

{WLAN5G_5G_BE_Value_Result}

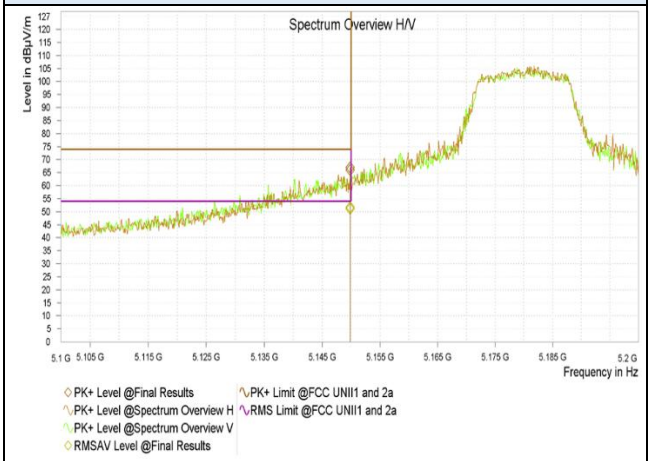
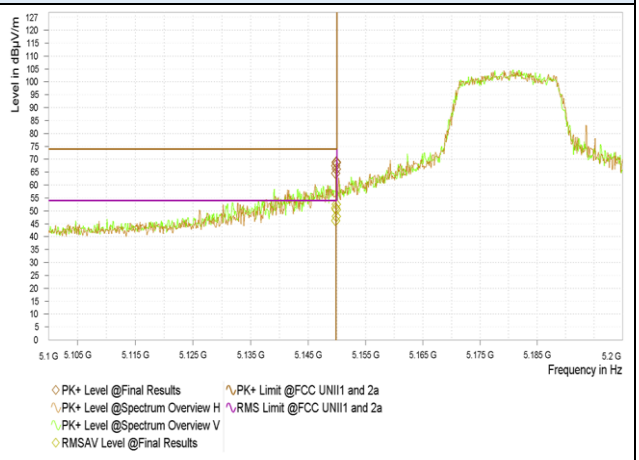
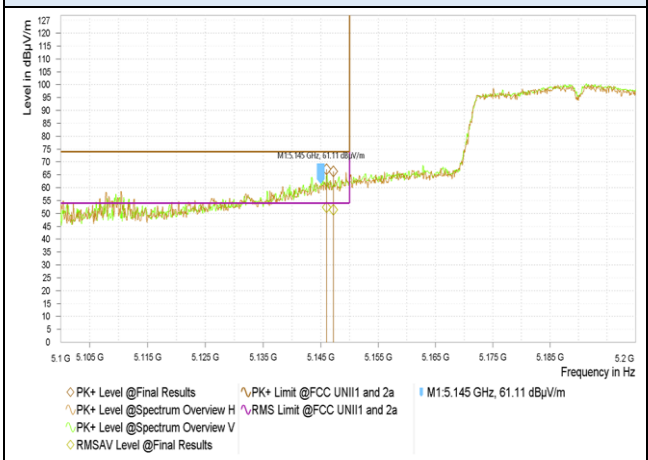
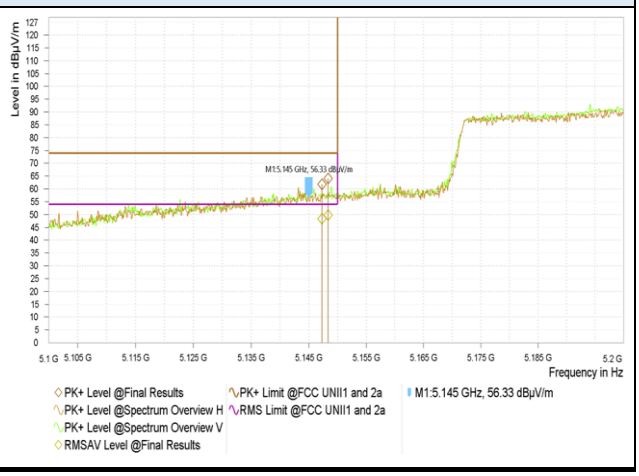
Band	Test Mode	Test Frequency (MHz)	Frequency (MHz)	PK Level	PK Limit	PK Margin	AV Level	AV Limit	AV Margin	Factor	Polarization
UNII1 Low Band Edge	802.11a	5180	5 149.83	67	74	7	51.76	54	2.24	0.31	H
			5 149.86	66.04	74	7.96	51.1	54	2.9	0.27	V
	802.11n (HT20)	5180	5 149.70	68.81	74	5.19	48.35	54	5.65	0.32	H
			5 149.30	66.59	74	7.41	45.87	54	8.13	0.31	V
	802.11n (HT40)	5190	5 146.00	67.23	74	6.77	52.44	54	1.56	0.4	H
			5 147.20	66.36	74	7.64	51.34	54	2.66	0.35	V
	802.11ac (VHT80)	5210	5 148.40	64.03	74	9.97	49.77	54	4.23	0.37	H
			5 147.30	61.82	74	12.18	48.33	54	5.67	0.35	V
UNII2A High Band Edge	802.11a	5320	5 351.69	68.59	74	5.41	51.93	54	2.07	0.53	H
			5 351.91	66.22	74	7.78	50.04	54	3.96	0.51	V
	802.11n (HT20)	5320	5 355.40	66.56	74	7.44	42.6	54	11.4	0.54	H
			5 354.10	70.61	74	3.39	46.06	54	7.94	0.5	V
	802.11n (HT40)	5310	5 350.21	69.64	74	4.36	48.56	54	5.44	0.54	H
			5 351.03	70.2	74	3.8	49.1	54	4.9	0.53	V
	802.11ac (VHT80)	5290	5 350.31	67.57	74	6.43	51.64	54	2.36	0.54	H
			5 351.93	68.48	74	5.52	52.19	54	1.81	0.51	V
UNII2C Low Band Edge	802.11a	5500	5 458.49	60.59	74	13.41	43.67	54	10.33	0.63	V
			5 459.73	60.63	74	13.37	43.99	54	10.01	0.77	H
			5 466.47	62.95	68.2	5.25	N/A	N/A	N/A	0.66	V
			5 469.22	66.29	68.2	1.91	N/A	N/A	N/A	0.85	H
	802.11n (HT20)	5500	5 458.68	65.31	74	8.69	48.47	54	5.53	0.62	V
			5 459.92	63.44	74	10.56	46.47	54	7.53	0.77	H
			5 466.73	66.41	68.2	1.79	N/A	N/A	N/A	0.8	H
			5 468.94	66.61	68.2	1.59	N/A	N/A	N/A	0.73	V
	802.11n (HT40)	5510	5 454.88	56.16	74	17.84	40.38	54	13.62	0.65	V
			5 459.48	59.9	74	14.1	43.24	54	10.76	0.76	H
			5 465.78	66.24	68.2	1.96	N/A	N/A	N/A	0.65	V
			5 469.90	66.64	68.2	1.56	N/A	N/A	N/A	0.81	H
	802.11ac (VHT80)	5530	5 457.91	64.96	74	9.04	51.06	54	2.94	0.78	H
			5 459.43	64.99	74	9.01	51.22	54	2.78	0.62	V
			5 467.49	66.26	68.2	1.94	N/A	N/A	N/A	0.69	V
			5 467.81	66.21	68.2	1.99	N/A	N/A	N/A	0.83	H

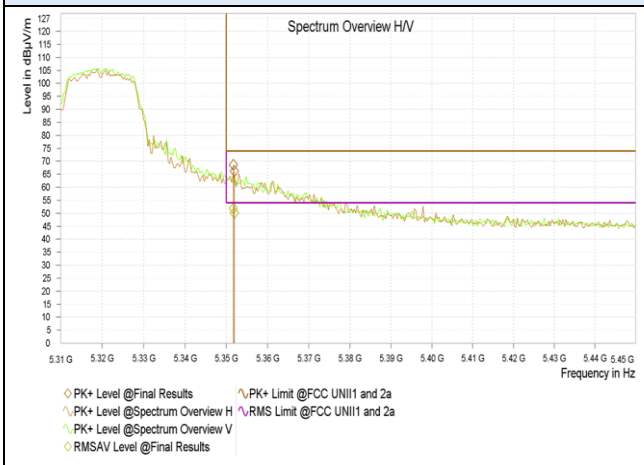
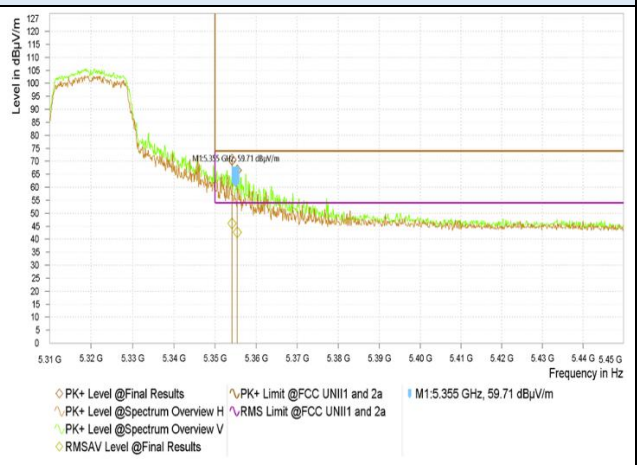
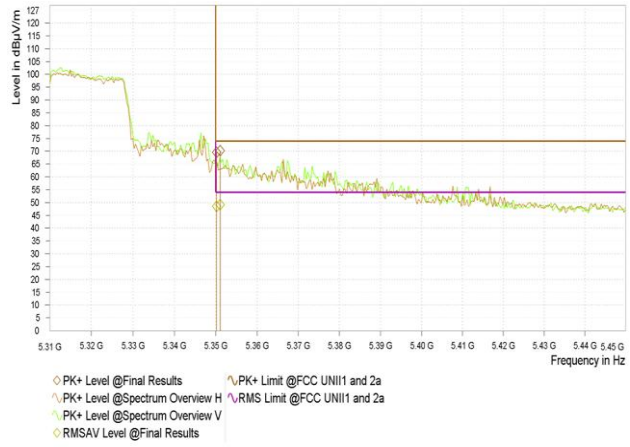
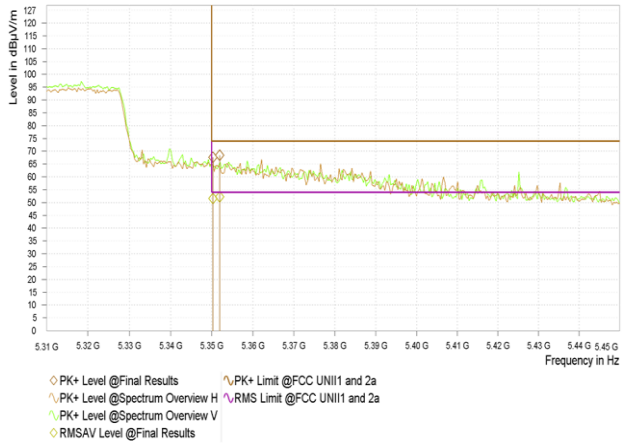
Band	Test Mode	Test Frequency (MHz)	Frequency (MHz)	PK Level	PK Limit	PK Margin	AV Level	AV Limit	AV Margin	Factor	Polarization
UNII2C High Band Edge	802.11a	5700	5 725.10	66.51	68.2	1.69	N/A	N/A	N/A	1.83	H
			5 725.26	65.07	68.2	3.13	N/A	N/A	N/A	1.67	V
	802.11n (HT20)	5700	5 725.55	64.76	68.2	3.44	N/A	N/A	N/A	1.84	H
			5 725.06	63.68	68.2	4.52	N/A	N/A	N/A	1.67	V
	802.11n (HT40)	5670	5 727.68	61.57	68.2	6.63	N/A	N/A	N/A	1.84	H
			5 725.72	61.04	68.2	7.16	N/A	N/A	N/A	1.68	V
	802.11ac (VHT80)	5610	5 725.74	57.46	68.2	10.74	N/A	N/A	N/A	1.84	H
			5 725.05	52.25	68.2	15.95	N/A	N/A	N/A	1.67	V
UNII3 Low Band Edge	802.11a	5745	5 602.39	50.24	68.2	17.96	N/A	N/A	N/A	0.86	H
			5 601.03	50.99	68.2	17.21	N/A	N/A	N/A	0.7	V
	802.11n (HT20)	5745	5 647.71	51.48	68.2	16.72	N/A	N/A	N/A	1.18	H
			5 647.60	49.52	68.2	18.68	N/A	N/A	N/A	1.04	V
	802.11n (HT40)	5755	5 643.46	54.3	68.2	13.9	N/A	N/A	N/A	1.19	H
			5 633.63	55.55	68.2	12.65	N/A	N/A	N/A	0.95	V
	802.11ac (VHT80)	5775	5 653.40	61.56	70.73	9.17	N/A	N/A	N/A	1.29	H
			5 654.62	62.35	71.64	9.29	N/A	N/A	N/A	1.31	V
UNII3 High Band Edge	802.11a	5825	5 647.71	51.48	68.2	16.72	N/A	N/A	N/A	1.18	H
			5 647.60	49.52	68.2	18.68	N/A	N/A	N/A	1.04	V
	802.11n (HT20)	5825	5 647.71	51.48	68.2	16.72	N/A	N/A	N/A	1.18	H
			5 647.60	49.52	68.2	18.68	N/A	N/A	N/A	1.04	V
	802.11n (HT40)	5795	5 643.46	54.3	68.2	13.9	N/A	N/A	N/A	1.19	H
			5 633.63	55.55	68.2	12.65	N/A	N/A	N/A	0.95	V
	802.11ac (VHT80)	5775	5 653.40	61.56	70.73	9.17	N/A	N/A	N/A	1.29	H
			5 654.62	62.35	71.64	9.29	N/A	N/A	N/A	1.31	V

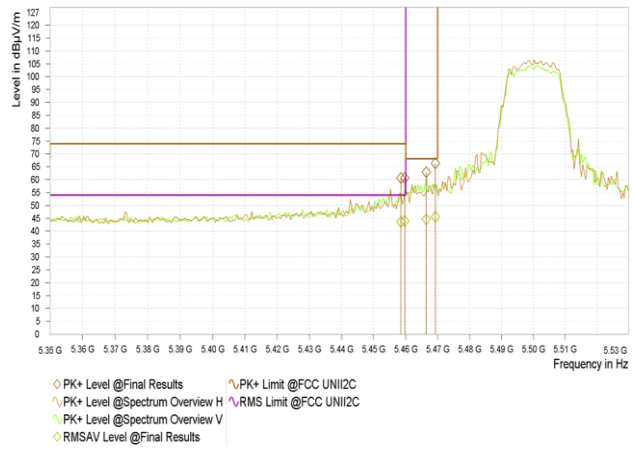
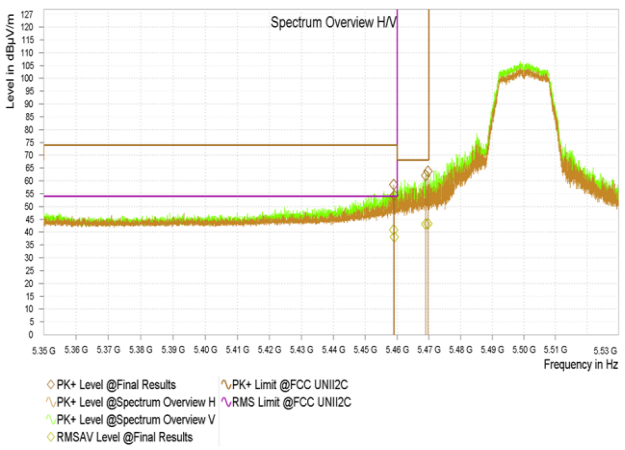
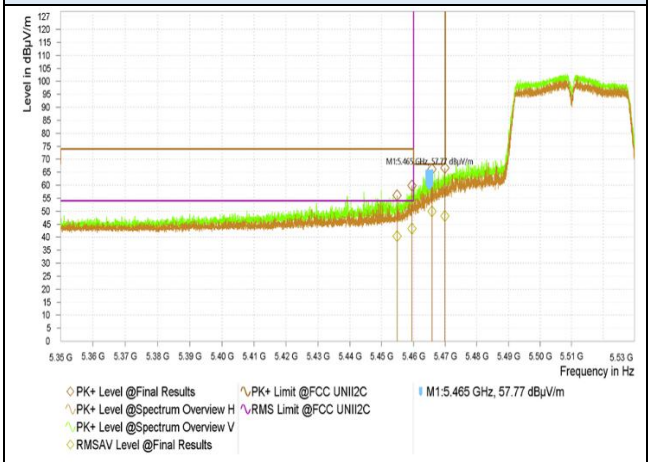
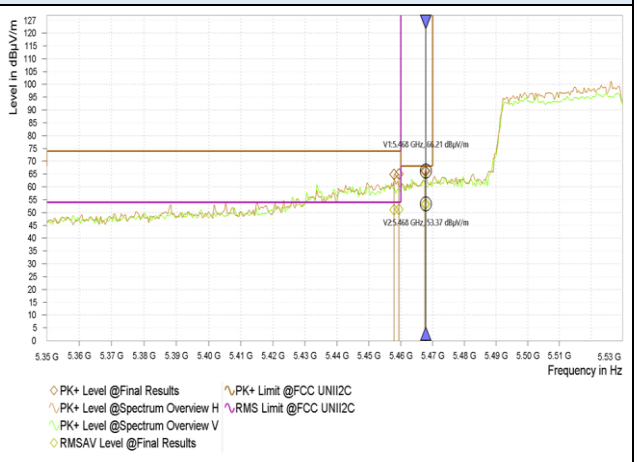
Note:

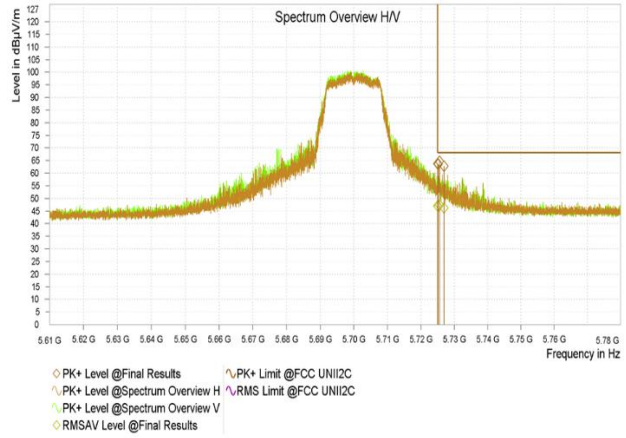
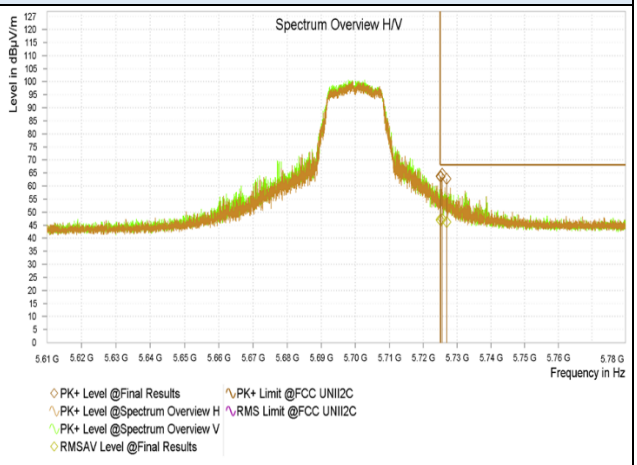
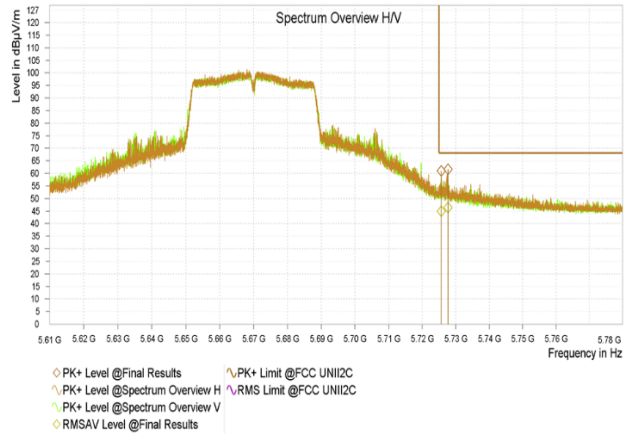
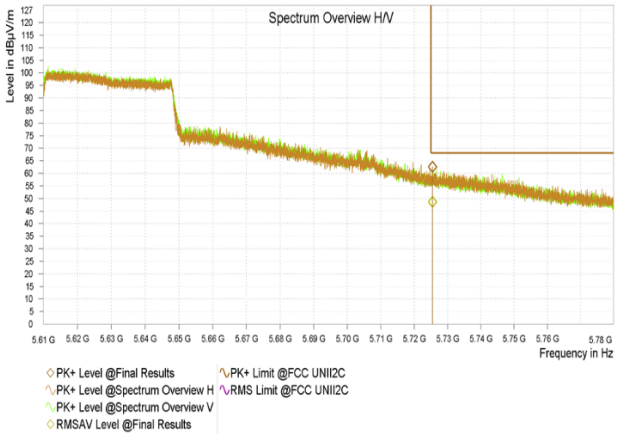
1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).
3. Duty factor is not applied since the duty cycle is 100 %.

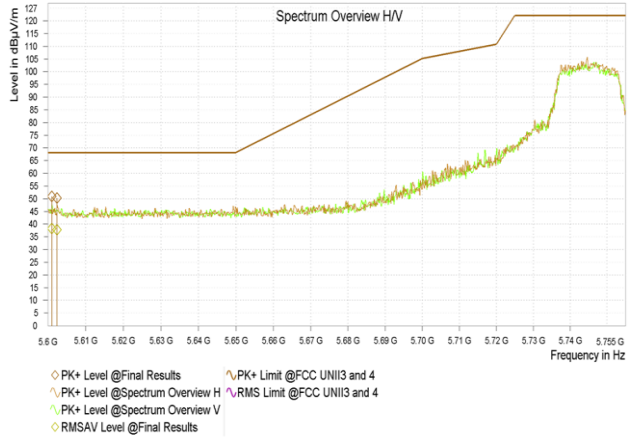
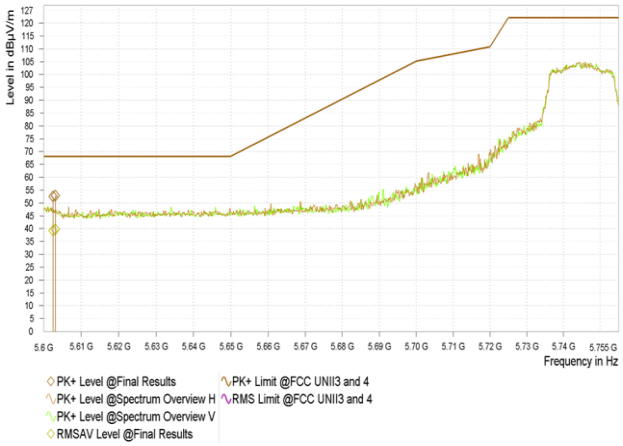
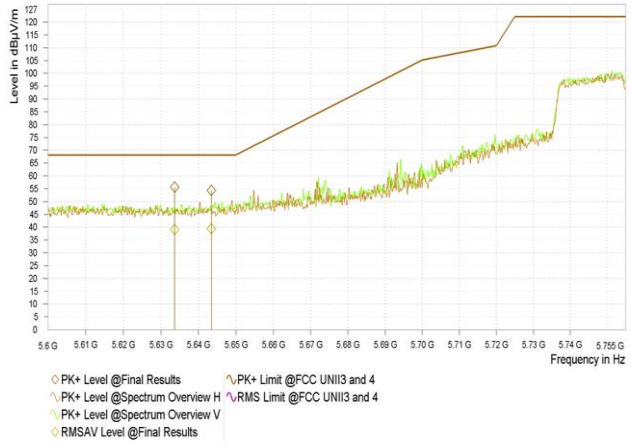
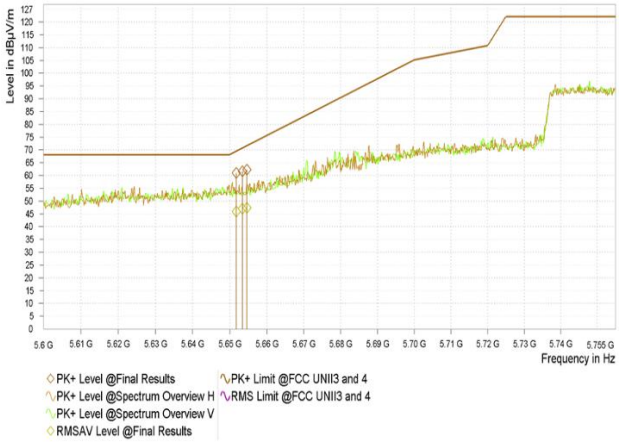
▣ TEST PLOTS

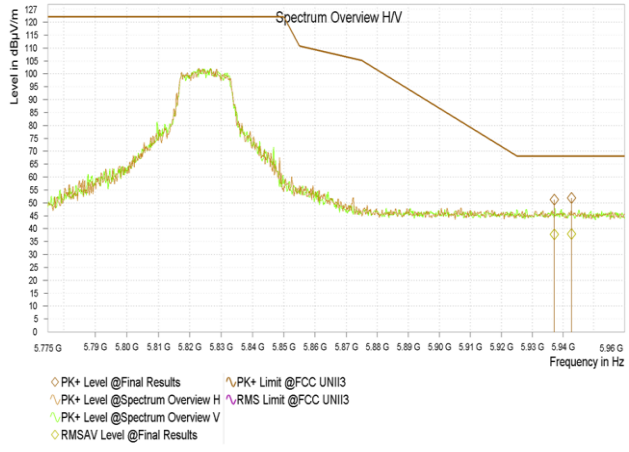
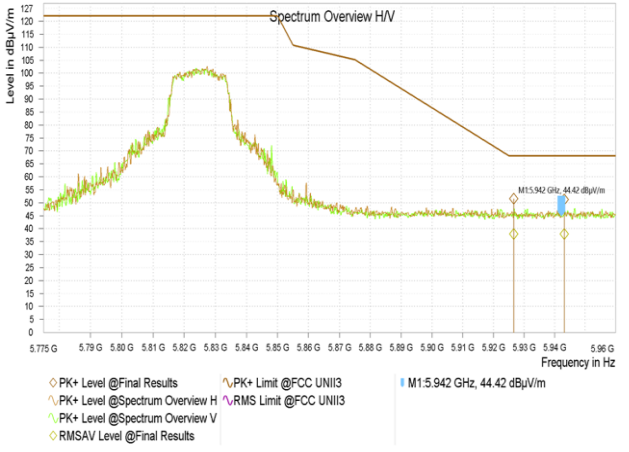
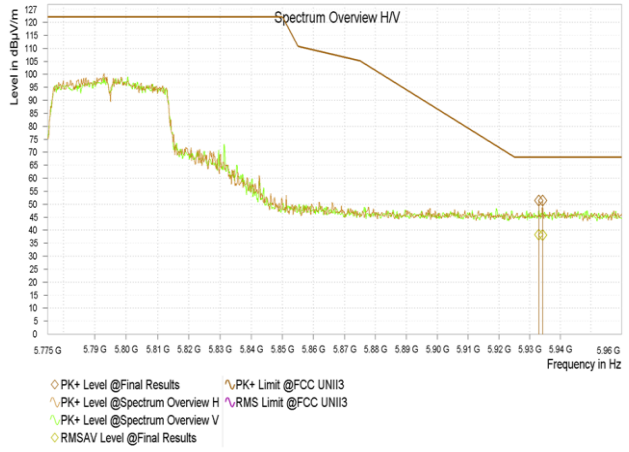
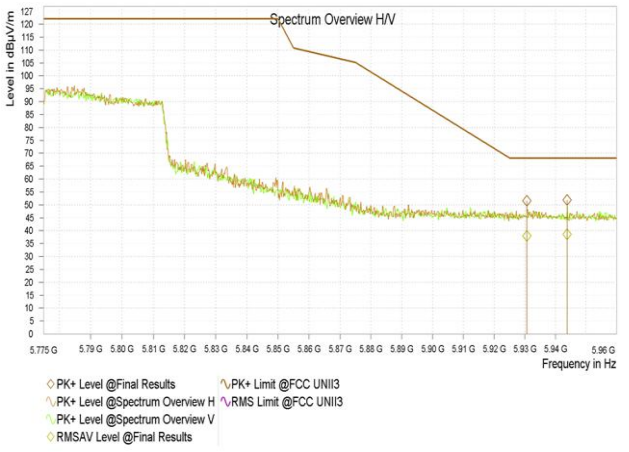
Radiated Band Edges 802.11a (CH 36)	Radiated Band Edges 802.11n HT20 (CH 36)
	
Radiated Band Edges 802.11n HT40 (CH 38)	**Radiated Band Edges 802.11ac VHT80 (CH 42)**
	

Radiated Band Edges 802.11a (CH 64)	Radiated Band Edges 802.11n HT20 (CH 64)
	
Radiated Band Edges 802.11n HT40 (CH 62)	**Radiated Band Edges 802.11ac VHT80 (CH 58)**
	

Radiated Band Edges 802.11a (CH 100)	Radiated Band Edges 802.11n HT20 (CH 100)
	
Radiated Band Edges 802.11n HT40 (CH 102)	**Radiated Band Edges 802.11ac VHT80 (CH 106)**
	

Radiated Band Edges 802.11a (CH 140)	Radiated Band Edges 802.11n HT20 (CH 140)
	
Radiated Band Edges 802.11n HT40 (CH 134)	**Radiated Band Edges 802.11ac VHT80 (CH 122)**
	

Radiated Band Edges 802.11a (CH 149)	Radiated Band Edges 802.11n HT20 (CH 149)
	
Radiated Band Edges 802.11n HT40 (CH 151)	**Radiated Band Edges 802.11ac VHT80 (CH 155)**
	

Radiated Band Edges 802.11a (CH 165)	Radiated Band Edges 802.11n HT20 (CH 165)
	
Radiated Band Edges 802.11n HT40 (CH 159)	**Radiated Band Edges 802.11ac VHT80 (CH 155)**
	

9.8 POWERLINE CONDUCTED EMISSIONS

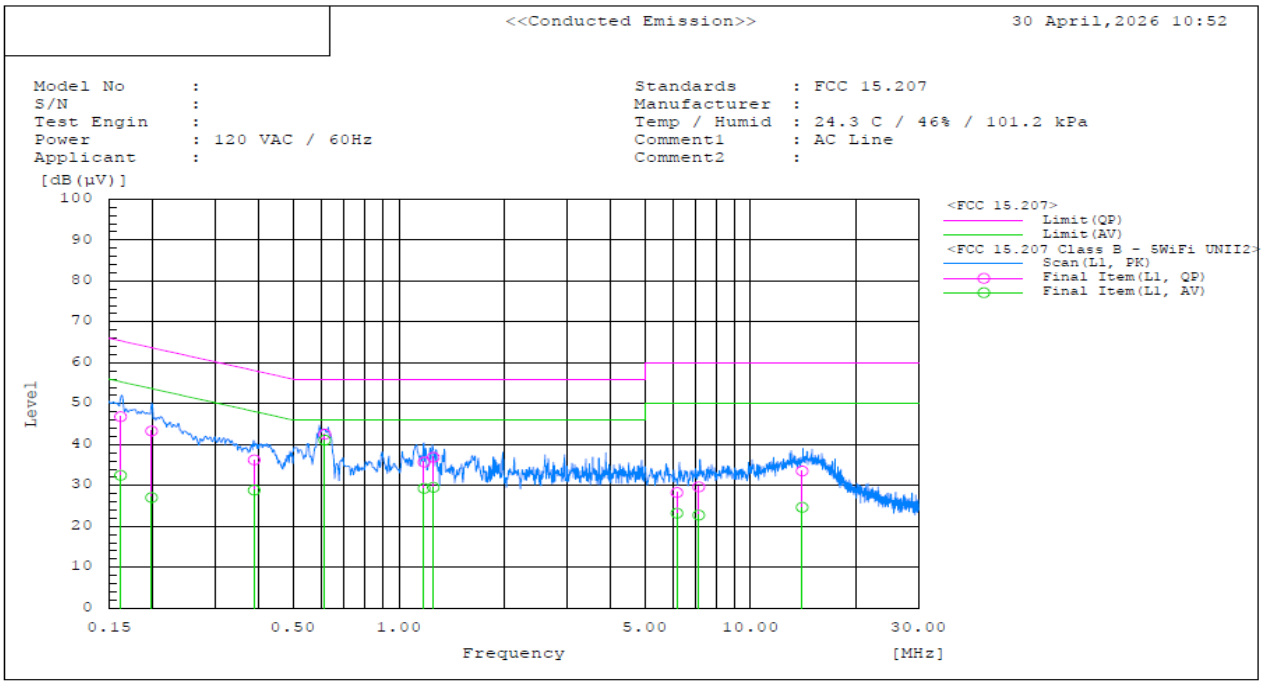
Frequency (MHz)	Line	Reading (dBµV)		Corr. [1] (dB)	Level (dBµV)		Limit (dBµV)		Margin (dB)	
		QP	CAV		QP	CAV	QP	CAV	QP	CAV
0.162	L1	37.3	22.9	9.6	46.9	32.5	65.4	55.4	18.5	22.9
0.198	L1	33.7	17.5	9.6	43.3	27.1	63.7	53.7	20.4	26.6
0.388	L1	26.6	19.2	9.7	36.3	28.9	58.1	48.1	21.8	19.2
0.615	L1	32.8	31.4	9.7	42.5	41.1	56	46	13.5	4.9
1.178	L1	26.1	19.6	9.7	35.8	29.3	56	46	20.2	16.7
1.252	L1	27.2	19.9	9.7	36.9	29.6	56	46	19.1	16.4
14.010	L1	22.8	13.9	10.8	33.6	24.7	60	50	26.4	25.3
7.124	L1	19.5	12.6	10.2	29.7	22.8	60	50	30.3	27.2
6.175	L1	18.2	13.2	10.1	28.3	23.3	60	50	31.7	26.7

Frequency (MHz)	Line	Reading (dBµV)		Corr. [1] (dB)	Level (dBµV)		Limit (dBµV)		Margin (dB)	
		QP	CAV		QP	CAV	QP	CAV	QP	CAV
0.492	N	25.6	16.0	9.7	35.3	25.7	56.1	46.1	20.8	20.4
0.152	N	36.9	20.1	9.6	46.5	29.7	65.9	55.9	19.4	26.2
0.402	N	24.1	13.4	9.7	33.8	23.1	57.8	47.8	24.0	24.7
0.617	N	33.5	25.5	9.7	43.2	35.2	56	46	12.8	10.8
0.617	N	33.9	25.7	9.7	43.6	35.4	56	46	12.4	10.6
1.199	N	26.6	18.6	9.7	36.3	28.3	56	46	19.7	17.7
14.307	N	24.2	11.2	10.9	35.1	22.1	60	50	24.9	27.9
15.743	N	24.1	11.5	11.0	35.1	22.5	60	50	24.9	27.5
14.826	N	24.3	11.3	11.0	35.3	22.3	60	50	24.7	27.7

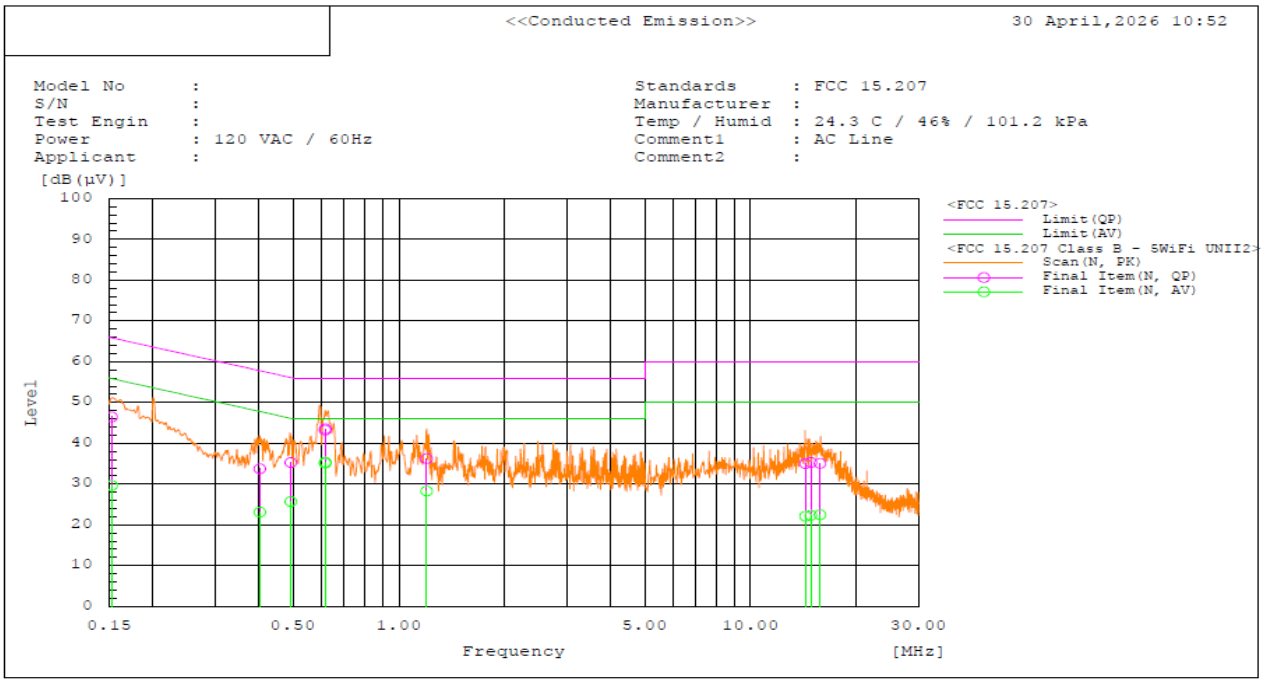
Note:
1. Quasi-peak(Final Result) = Reading Value + Correction Factor

▣ TEST PLOTS

AC Line Conducted Emission (L1)



AC Line Conducted Emission (N)



10. LIST OF TEST EQUIPMENT

No.	Instrument	Model No.	Calibration Due (mm/dd/yy)	Manufacture	Serial No.
☒	Signal Analyzer (1 Hz ~ 44.0 GHz)	ESW44	08/05/2026	Rohde & Schwarz	103176
☒	Signal Analyzer (20 Hz ~ 26.5 GHz)	N9020A	10/09/2026	Keysight	MY53280148
☒	Attenuator (20 dB, DC ~ 26.5 GHz)	8493C 20 dB	10/14/2026	KEYSIGHT	9072
☒	Loop Antenna (0.009 ~ 30 MHz)	HLA 6121	03/03/2027	TESEQ	43964
☒	BI-LOG Antenna (30 MHz ~ 6 GHz)	JB6	02/27/2027	Sunol	A060916
☒	Horn Antenna (1 GHz ~ 18 GHz)	BBHA 9120 D	07/15/2027	Schwarzbeck	03023
☒	Horn Antenna (15 GHz ~ 40 GHz)	BBHA 9170	01/21/2027	Schwarzbeck	1342
☒	RF Switch Matrix System	HRSMS-VL	01/02/2027	HCT Ltd.	2-51-001
☒	EMI Test Receiver	ESR3	07/18/2026	Rohde & Schwarz	102363
☒	LISN	ENV216	08/28/2026	Rohde & Schwarz	101550
☒	Temperature & Humidity Chamber	SH-662	08/05/2026	ESPEC	93024017
☒	Test Software	R&S*ELEKTRA	-	Rohde & Schwarz	-

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.

APPENDIX A. TEST SETUP PHOTOS

The setup photos are provided as a separate document.

APPENDIX B. PHOTOGRAPHS OF EUT

B.1. EXTERNAL PHOTOS

The external photos are provided as a separate document.

B.2. INTERNAL PHOTOS

The internal photos are provided as a separate document.

END OF TEST REPORT