

# TEST REPORT

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,  
Gyeonggi-do, 17142, Korea  
Tel: +82-31-339-9970  
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Report No.:

CTK-2025-01771

Page (1) / (60) Pages

**1. Applicant**

- Name : SOLUM CO.,LTD.
- Address : 7F, 2354, Yonggu-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
- Date of Receipt : 2025-03-07

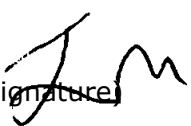
**2. Manufacturer**

- Name : SOLUM CO., LTD.
- Address : 7F, 2354, Yonggu-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea

**3. Use of Report :** For FCC Certification & ISED Certification**4. Test Sample / Model:** ESL Label / EL315TRB6S**5. Date of Test :** 2025-06-11 to 2025-06-24**6. Test Standard(method) used :** FCC 47 CFR part 15 subpart E 15.407  
ISED RSS-247 & RSS-Gen**7. Testing Environment:** refer to 10 page**8. Test Results :** Compliance**9. Location of Test :** ☒ Permanent Testing Lab ☐ On Site Testing

(Address : 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, 17141 Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This report cannot be reproduced or copied without the written consent of CTK.

|          |                                                                                                                |                                                                                                                   |
|----------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Approval | Tested by                                                                                                      | Technical Manager                                                                                                 |
|          | Min-Wook Jung: (Signature)  | Young-taek Lee: (Signature)  |

2025-07-08

**CTK Co., Ltd.**

## REPORT REVISION HISTORY

| Date       | Revision                | Page No |
|------------|-------------------------|---------|
| 2025-07-08 | Issued (CTK-2025-01771) | all     |
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# 1. General Product Description

## 1.1 Applicant Information

|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| <b>Company</b>        | SOLUM CO.,LTD.                                                                |
| <b>Contact Point</b>  | 7F, 2354, Yonggu-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea |
| <b>Contact Person</b> | Name : Ki Dong Lee<br>E-mail : kdlee007@solu-m.com<br>Tel : +82-31-8006-7677  |

## 1.2 Manufacturer Information

|                     |                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Manufacturer</b> | SOLUM VINA CO., LTD                                                                                                              |
| <b>Address</b>      | Plot B3, Ba Thien 2 Industrial park, Thien Ke Ward, Binh Xuyen District, Vinh Phuc Province, 281200.,Peple's Republic of Vietnam |

## 1.3 Product Information

|                                    |                                                                                                                                        |                                                                       |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>FCC ID</b>                      | 2AFWN-EL315TRB6S                                                                                                                       |                                                                       |
| <b>IC</b>                          | 22800-EL315TRB6S                                                                                                                       |                                                                       |
| <b>Product Description</b>         | ESL Label                                                                                                                              |                                                                       |
| <b>Model name</b>                  | EL315TRB6S                                                                                                                             |                                                                       |
| <b>Variant Model name</b>          | EL315TRW6S<br>(Variant model has no technical differences with each model except for the model name and color for marketing purposes.) |                                                                       |
| <b>Operating Frequency</b>         | UNII 1                                                                                                                                 | 20 MHz_BW : 5 180 MHz – 5 240 MHz                                     |
|                                    | UNII 2A                                                                                                                                | 20 MHz_BW : 5 260 MHz – 5 320 MHz                                     |
|                                    | UNII 2C                                                                                                                                | 20 MHz_BW : 5 500 MHz – 5 720 MHz                                     |
| <b>RF Output Power</b>             | UNII 1                                                                                                                                 | 802.11a : 11.36 dBm (13.68 mW)<br>802.11n_HT20 : 11.43 dBm (13.90 mW) |
|                                    | UNII 2A                                                                                                                                | 802.11a : 9.54 dBm (8.995 mW)<br>802.11n_HT20 : 9.09 dBm (8.11 mW)    |
|                                    | UNII 2C                                                                                                                                | 802.11a : 8.70 dBm (7.413 mW)<br>802.11n_HT20 : 7.50 dBm (5.623 mW)   |
| <b>Antenna Specification</b>       | Antenna type : PCB Antenna                                                                                                             |                                                                       |
|                                    | UNII 1, UNII 2A                                                                                                                        | Peak Gain : 2.94 dBi                                                  |
|                                    | UNII 2C                                                                                                                                | Peak Gain : 3.61 dBi                                                  |
| <b>Antenna Configurations</b>      | 802.11a : SISO<br>802.11n : SISO                                                                                                       |                                                                       |
| <b>Type of Modulation</b>          | 802.11a/n : OFDM                                                                                                                       |                                                                       |
| <b>Data Rate</b>                   | 802.11a : 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps<br>802.11n : up to 72.2 Mbps                                                        |                                                                       |
| <b>Power Source</b>                | DC 12 V                                                                                                                                |                                                                       |
| <b>Hardware Rev</b>                | 29                                                                                                                                     |                                                                       |
| <b>Software Rev</b>                | 36                                                                                                                                     |                                                                       |
| <b>Dynamic Frequency Selection</b> | Slave without radar detection                                                                                                          |                                                                       |

## RF Power setting in Test SW

| Mode         | Frequency Band | Power Setting Value |
|--------------|----------------|---------------------|
| 802.11a      | UNII 1         | 115                 |
|              | UNII 2A        | 115                 |
|              | UNII 2C        | 90                  |
| 802.11n_HT20 | UNII 1         | 119                 |
|              | UNII 2A        | 113                 |
|              | UNII 2C        | 85                  |

## 1.4 Peripheral Devices

| Device        | Manufacturer | Model No.  | Serial No. |
|---------------|--------------|------------|------------|
| Note Computer | HP           | 15-bs563TU | CND7253R6N |
| AC/DC Adapter | HP           | HSTNN-LA40 | -          |

## 2. Accreditations

### 2.1 Laboratory Accreditations and Listings

| Country | Agency | Registration Number           |
|---------|--------|-------------------------------|
| USA     | FCC    | 805871                        |
| CANADA  | ISED   | CN : 8737A<br>CAB ID : KR0025 |
| KOREA   | NRRA   | KR0025                        |

### 2.2 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

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### 3. Test Specifications

#### 3.1 Standards

| FCC Part Section(s)                                                                                              | Requirement(s)                    | Limit                                                                                                                                                 | Status (Note 1) | Test Condition |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|
| 15.407 (e)                                                                                                       | 6 dB Bandwidth                    | > 500 kHz<br>(5 725 – 5 850 MHz)                                                                                                                      | C               | Conducted      |
| 15.407 (a)                                                                                                       | 26 dB Bandwidth and 99% Bandwidth | NA                                                                                                                                                    | C               |                |
| 15.407 (a)(1),(2),(3)                                                                                            | Conducted Output Power            | < 250 mW<br>(5 150 – 5 250 MHz)<br><br>< 250 mW<br>(5 250 – 5 350 MHz, 5 470 – 5 725 MHz)                                                             | C               |                |
| 15.407 (a)(1),(2),(3)                                                                                            | Power Spectral Density            | < 11 dBm/MHz<br>(5 150 – 5 250 MHz)<br><br>< 11 dBm/MHz<br>(5 250 – 5 350 MHz, 5 470 – 5 725 MHz)                                                     | C               |                |
| 15.407 (g)                                                                                                       | Frequency Stability               | NA                                                                                                                                                    | C               |                |
| 15.407 (b)                                                                                                       | Undesirable emission              | < -27 dBm/MHz EIRP<br>(5 150 – 5 250 MHz, 5 250 – 5 350 MHz, 5 470 – 5 725 MHz)<br><br>< -27 dBm/MHz EIRP<br>< 10 dBm/MHz EIRP<br>< 15.6 dBm/MHz EIRP | C               | Radiated       |
| 15.205, 15.407 (b)(9),(10)                                                                                       | Radiated Spurious Emission        | 15.209(a)                                                                                                                                             | C               |                |
| 15.407 (b)(9)                                                                                                    | AC Conducted Emissions            | 15.207(a)                                                                                                                                             | C               | Line Conducted |
| <u>Note 1:</u> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable                                        |                                   |                                                                                                                                                       |                 |                |
| <u>Note 2:</u> The data in this test report are traceable to the national or international standards.            |                                   |                                                                                                                                                       |                 |                |
| <u>Note 3:</u> The sample was tested according to the following specification: FCC Part 15.407, ANSI C63.10-2013 |                                   |                                                                                                                                                       |                 |                |
| <u>Note 4:</u> The tests were performed according to the method of measurements prescribed in KDB No.789033      |                                   |                                                                                                                                                       |                 |                |

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| ISED Part Section(s)                                                                                                           | Requirement(s)                    | Limit                                                                                                                                                       | Status (Note 1) | Test Condition |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|
| <b>RSS-Gen 6.7</b>                                                                                                             | 26 dB Bandwidth and 99% Bandwidth | NA                                                                                                                                                          | C               | Conducted      |
| <b>RSS-247</b><br><b>6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.2</b>                                                                    | Conducted Output Power            | < 200 mW EIRP<br>(5 150 – 5 250 MHz)<br><br>< 250 mW<br>(5 250 – 5 350 MHz,<br>5 470 – 5 725 MHz)                                                           | C               |                |
| <b>RSS-247</b><br><b>6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.2</b>                                                                    | Power Spectral Density            | < 10 dBm/MHz EIRP<br>(5 150 – 5 250 MHz)<br><br>< 11 dBm/MHz<br>(5 250 – 5 350 MHz,<br>5 470 – 5 725 MHz)                                                   | C               |                |
| <b>RSS-Gen 6.11</b>                                                                                                            | Frequency Stability               | NA                                                                                                                                                          | C               |                |
| <b>RSS-247</b><br><b>6.2.1.2, 6.2.2.2, 6.2.3.2, 6.2.4.3</b>                                                                    | Undesirable emission              | < -27 dBm/MHz EIRP<br>(5 150 – 5 250 MHz,<br>5 250 – 5 350 MHz,<br>5 470 – 5 725 MHz)<br><br>< -27 dBm/MHz EIRP<br>< 10 dBm/MHz EIRP<br>< 15.6 dBm/MHz EIRP | C               | Radiated       |
| <b>RSS-Gen 6.13, 7.3, 8.9, 8.10</b>                                                                                            | Radiated Spurious Emission        | RSS-Gen 7.3 8.9, 8.10                                                                                                                                       | C               |                |
| <b>RSS-Gen 8.8</b>                                                                                                             | AC Conducted Emissions            | RSS-Gen 8.8                                                                                                                                                 | C               | Line Conducted |
| <u>Note 1</u> : C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable                                                     |                                   |                                                                                                                                                             |                 |                |
| <u>Note 2</u> : The data in this test report are traceable to the national or international standards.                         |                                   |                                                                                                                                                             |                 |                |
| <u>Note 3</u> : The sample was tested according to the following specification: RSS-247, RSS-GEN                               |                                   |                                                                                                                                                             |                 |                |
| <u>Note 4</u> : The tests were performed according to the method of measurements prescribed in KDB No.789033, ANSI C63.10-2013 |                                   |                                                                                                                                                             |                 |                |



### 3.2 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments.  
 During at testing, system components were manipulated within the confines of typical usage to maximize each emission.  
 For WLAN function, the engineering test program was provided and enabled to make EUT continuous transmit.  
 All modulation modes were tests. The results are only attached worst cases.

#### Test Frequency & Bandwidth

- 802.11a, 802.11n\_HT20

|                | Lowest channel | Middle channel | Highest channel      |
|----------------|----------------|----------------|----------------------|
| <b>UNII 1</b>  | 5 180 MHz      | 5 200 MHz      | 5 240 MHz            |
| <b>UNII 2A</b> | 5 260 MHz      | 5 300 MHz      | 5 320 MHz            |
| <b>UNII 2C</b> | 5 500 MHz      | 5 600 MHz      | 5 700 MHz, 5 720 MHz |

#### Test mode & Worst case

| Test mode    | Modulation | Data rate | Duty Cycle | Duty Cycle Factor |
|--------------|------------|-----------|------------|-------------------|
| 802.11a      | OFDM       | 6 Mbps    | 94.1 %     | 0.27 dB           |
| 802.11n_HT20 | OFDM       | MCS 0     | 93.7 %     | 0.29 dB           |

### 3.3 Maximum Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.  
 Coverage factor  $k = 2$ , Confidence levels of 95 %

| Description                          | Uncertainty                            |
|--------------------------------------|----------------------------------------|
| Conducted RF Output Power            | 1.5 dB (C.L.: Approx. 95 %, $k = 2$ )  |
| Power Spectral Density               | 1.5 dB (C.L.: Approx. 95 %, $k = 2$ )  |
| Occupied Bandwidth                   | 0.1 MHz (C.L.: Approx. 95 %, $k = 2$ ) |
| Unwanted Emission(conducted)         | 3.0 dB (C.L.: Approx. 95 %, $k = 2$ )  |
| Radiated Emissions ( $f \leq 1$ GHz) | 3.88 dB (C.L.: Approx. 95 %, $k = 2$ ) |
| Radiated Emissions ( $f > 1$ GHz)    | 4.50 dB (C.L.: Approx. 95 %, $k = 2$ ) |
| Line Conducted Emission              | 2.08 dB (C.L.: Approx. 95 %, $k = 2$ ) |

### 3.4 Test Software

|                     |                                          |
|---------------------|------------------------------------------|
| Conducted Test      | Ics Pro Ver. 7.0.8                       |
| Radiated Test       | EP5RE Ver. 6.0.10, ES10 Ver. 2022.04.000 |
| Line Conducted Test | EMC32 Ver. 10.50.00                      |

### 3.5 Testing Environment

| Test Item                          | Test Date                     | Temperature (°C) | Relative Humidity (%) |
|------------------------------------|-------------------------------|------------------|-----------------------|
| 26 dB Bandwidth and 99% Bandwidth  | 2025-06-11<br>~<br>2025-06-24 | 23 ±1 ~ 25 ±1    | 46 ±3 ~ 55 ±3         |
| Maximum Output Power               | 2025-06-11<br>~<br>2025-06-24 | 23 ±1 ~ 25 ±1    | 46 ±3 ~ 55 ±3         |
| Unwanted Emission(Conducted)       | 2025-06-11<br>~<br>2025-06-24 | 23 ±1 ~ 25 ±1    | 46 ±3 ~ 55 ±3         |
| Transmitter Power Spectral Density | 2025-06-11<br>~<br>2025-06-24 | 23 ±1 ~ 25 ±1    | 46 ±3 ~ 55 ±3         |
| Radiated Emissions ( $f > 1$ GHz)  | 2025-06-13<br>~<br>2025-06-24 | 23 ±1 ~ 24 ±1    | 48 ±3 ~ 56 ±3         |
| Radiated Emissions ( $f < 1$ GHz)  | 2025-06-11<br>~<br>2025-06-17 | 23 ±1 ~ 25 ±1    | 44 ±3 ~ 47 ±3         |
| AC Conducted Emissions             | 2025-06-11                    | 23               | 46                    |

## 4. Technical Characteristic Test

### 4.1 26 dB Bandwidth and 99% Bandwidth

#### Test Procedures

KDB 789033 – Section C.1  
 ANSI C63.10-2013 - Section 6.9.2

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 26 dB relative to the maximum level measured in the fundamental emission.

#### Test Procedures

KDB 789033 – Section C.1  
 ANSI C63.10-2013 - Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

#### Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = approximately 1 % of the emission bandwidth
- b) VBW  $\geq$  RBW
- c) Detector = peak
- d) Trace mode = Max hold
- e) 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%.

#### Minimum Standard:

---

NA

---

**Test Data:**

|                         | 26 dB Bandwidth and 99 % Bandwidth (MHz) |       |              |       |
|-------------------------|------------------------------------------|-------|--------------|-------|
| Mode                    | 802.11a                                  |       | 802.11n_HT20 |       |
| Frequency               | 26 dB                                    | 99 %  | 26 dB        | 99 %  |
| 5 180 MHz               | 30.73                                    | 16.81 | 30.39        | 17.72 |
| 5 200 MHz               | 24.17                                    | 16.67 | 24.82        | 17.83 |
| 5 240 MHz               | 24.98                                    | 16.70 | 26.41        | 17.85 |
| 5 260 MHz               | 22.17                                    | 16.61 | 21.30        | 17.69 |
| 5 300 MHz               | 21.19                                    | 16.65 | 21.83        | 17.77 |
| 5 320 MHz               | 27.01                                    | 16.67 | 21.50        | 17.73 |
| 5 500 MHz               | 24.33                                    | 16.71 | 27.01        | 17.84 |
| 5 600 MHz               | 20.64                                    | 16.53 | 21.38        | 17.64 |
| 5 700 MHz               | 20.64                                    | 16.57 | 21.50        | 17.68 |
| 5 720 MHz               | 20.68                                    | 16.54 | 21.53        | 17.69 |
| Measurement uncertainty | ± 0.1 MHz                                |       |              |       |

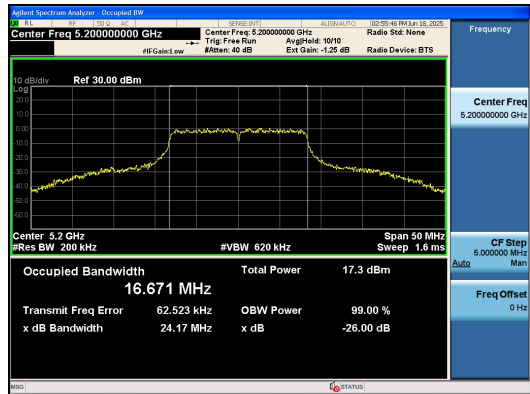
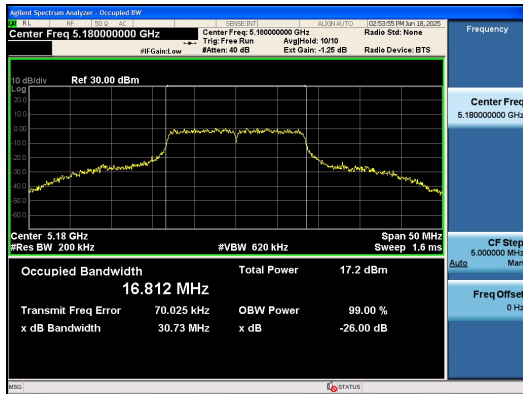
See next pages for actual measured spectrum plots.



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## 802.11a\_UNII 1



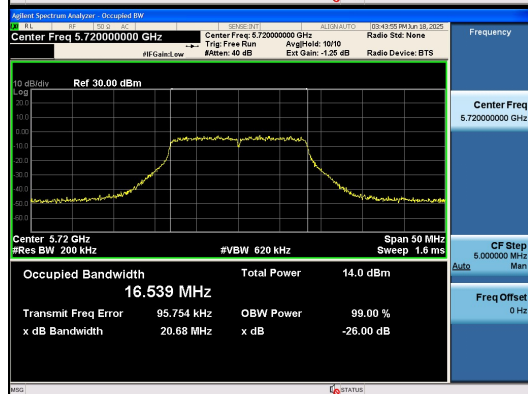
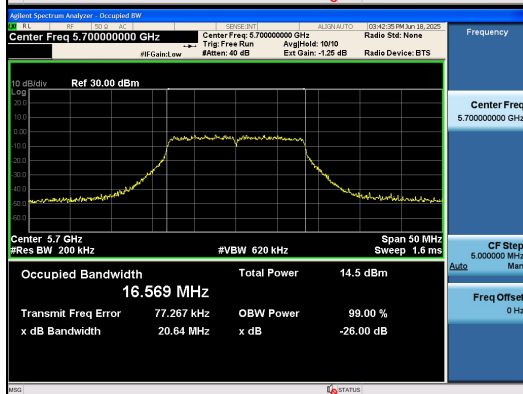
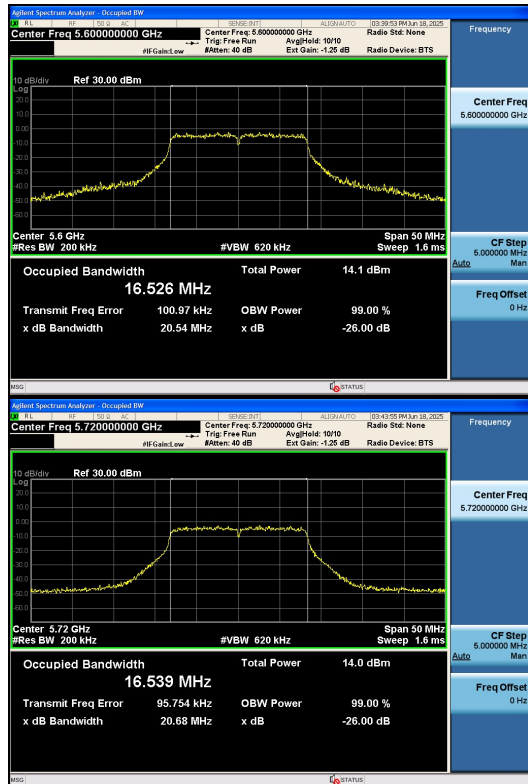
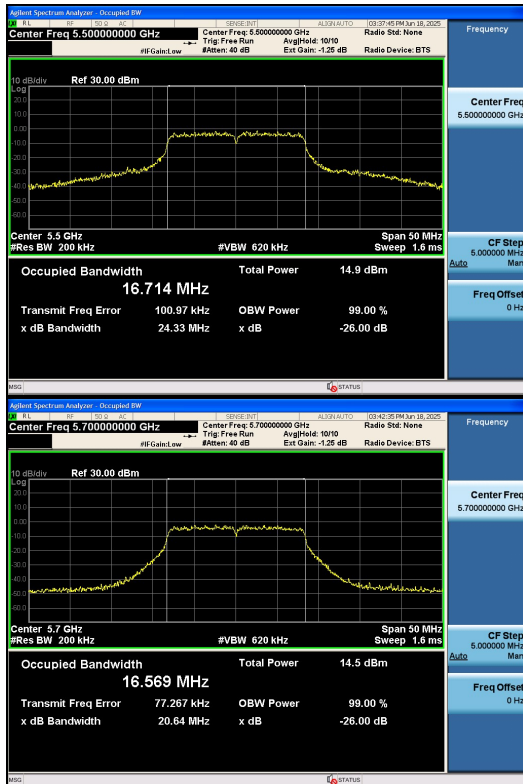
## 802.11a\_UNII 2A



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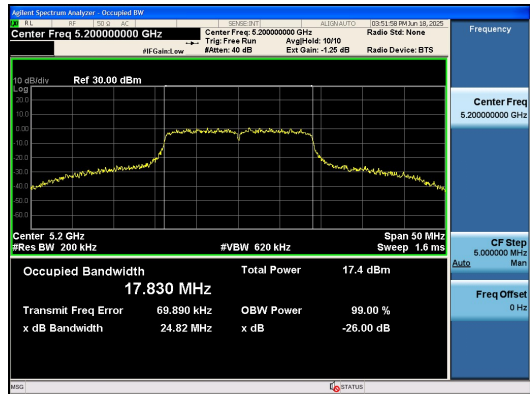
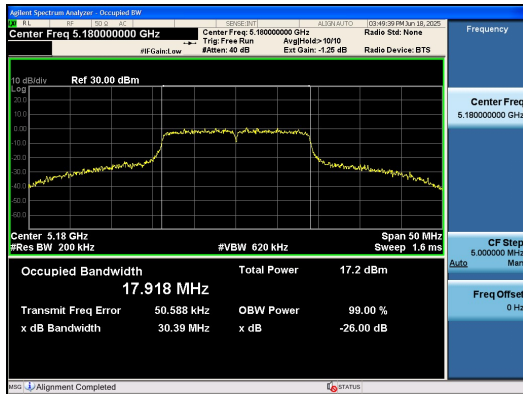
802.11a\_UNIT 2C



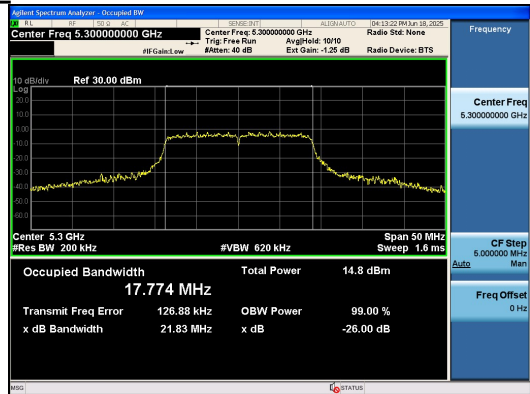
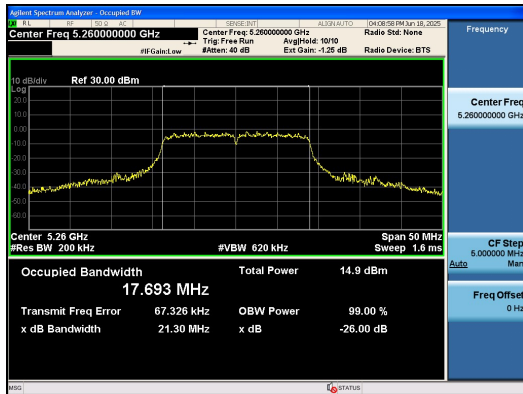
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## 802.11n\_HT20\_UNII 1



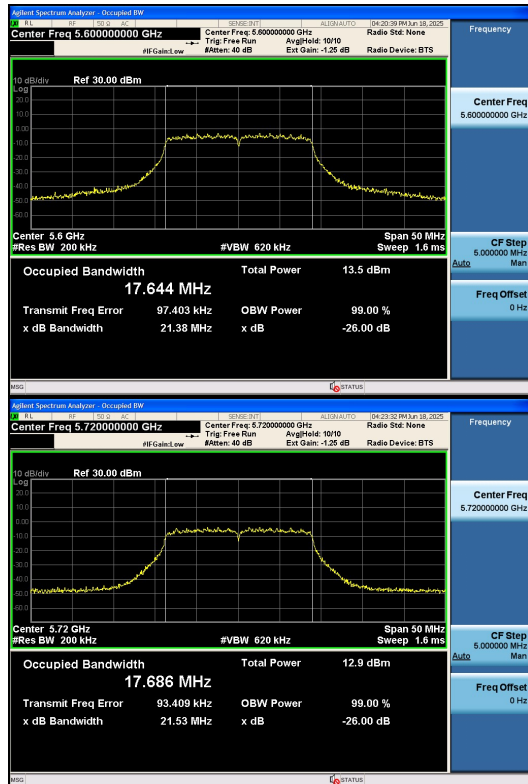
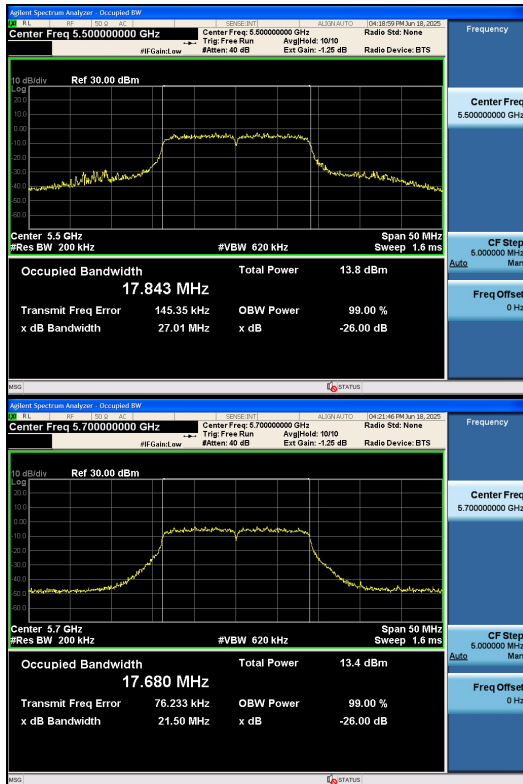
## 802.11n\_HT20\_UNII 2A



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802.11n\_HT20\_UNII 2C

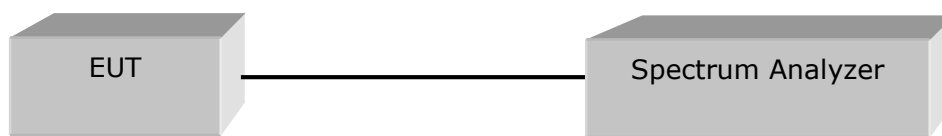


## 4.2 Output Power

### Test Procedures

KDB 789033 – Section E.2.d (Method SA-2, Maximum Conducted Output Power)  
 ANSI C63.10-2013 – Section 12.3.2.4

The transmitter output is connected to a spectrum analyzer and the analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth.



### Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 1 MHz
- b) VBW  $\geq 3 \times$  RBW
- c) Sweep time = auto
- d) Detector = power averaging (rms)
- e) Trace mode = Average at least 100
- f) Duty cycle factor =  $10\log(1/x)$

| Test mode    | Duty Cycle Factor (dB) |
|--------------|------------------------|
| 802.11a      | 0.27                   |
| 802.11n_HT20 | 0.29                   |

## Limit

| Operating Mode | Mode      | ANT Gain (dBi) | Band    | FCC Limit (dBm) | ISED Limit (dBm) |
|----------------|-----------|----------------|---------|-----------------|------------------|
| SISO           | 802.11a/n | 2.94           | UNII 1  | 24.00           | Note             |
|                |           |                | UNII 2A | 24.00           | Note             |
|                |           | 3.61           | UNII 2C | 24.00           | Note             |

Note :

| Band    | Limit (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UNII 1  | the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.                                                                                                                                                                                                                                                                                                       |
| UNII 2A | The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ , dBm, whichever is less.<br><br>The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$ , dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W. |
| UNII 2C | The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ , dBm, whichever is less.<br><br>The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$ , dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W. |

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**Test Data****[FCC]**

| Test Mode               | Frequency (MHz) | Measured Output Power (dBm) | Duty cycle Factor (dB) | Result Output Power (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------|-----------------|-----------------------------|------------------------|---------------------------|-------------|-------------|
| 802.11a                 | 5 180           | 11.00                       | 0.27                   | 11.27                     | 24          | 12.73       |
|                         | 5 200           | 11.09                       | 0.27                   | 11.36                     | 24          | 12.64       |
|                         | 5 240           | 10.78                       | 0.27                   | 11.05                     | 24          | 12.95       |
|                         | 5 260           | 9.14                        | 0.27                   | 9.41                      | 24          | 14.59       |
|                         | 5 300           | 9.06                        | 0.27                   | 9.33                      | 24          | 14.67       |
|                         | 5 320           | 9.27                        | 0.27                   | 9.54                      | 24          | 14.46       |
|                         | 5 500           | 8.43                        | 0.27                   | 8.70                      | 24          | 15.3        |
|                         | 5 600           | 8.36                        | 0.27                   | 8.63                      | 24          | 15.37       |
|                         | 5 700           | 8.17                        | 0.27                   | 8.44                      | 24          | 15.56       |
|                         | 5 720           | 7.91                        | 0.27                   | 8.18                      | 24          | 15.82       |
| 802.11n<br>_HT20        | 5 180           | 11.10                       | 0.29                   | 11.39                     | 24          | 12.61       |
|                         | 5 200           | 11.14                       | 0.29                   | 11.43                     | 24          | 12.57       |
|                         | 5 240           | 10.55                       | 0.29                   | 10.84                     | 24          | 13.16       |
|                         | 5 260           | 8.45                        | 0.29                   | 8.74                      | 24          | 15.26       |
|                         | 5 300           | 8.50                        | 0.29                   | 8.79                      | 24          | 15.21       |
|                         | 5 320           | 8.80                        | 0.29                   | 9.09                      | 24          | 14.91       |
|                         | 5 500           | 7.21                        | 0.29                   | 7.50                      | 24          | 16.5        |
|                         | 5 600           | 7.13                        | 0.29                   | 7.42                      | 24          | 16.58       |
|                         | 5 700           | 6.99                        | 0.29                   | 7.28                      | 24          | 16.72       |
|                         | 5 720           | 6.61                        | 0.29                   | 6.90                      | 24          | 17.10       |
| Measurement uncertainty |                 | ± 1.5 dB                    |                        |                           |             |             |

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**[ISED]**

| Test Mode                  | Frequency<br>(MHz) | Measured<br>Output<br>Power<br>(dBm) | Duty<br>cycle<br>Factor<br>(dB) | Result<br>(dBm)              |       | Limit<br>(dBm)               |       | Margin<br>(dB)               |       |
|----------------------------|--------------------|--------------------------------------|---------------------------------|------------------------------|-------|------------------------------|-------|------------------------------|-------|
|                            |                    |                                      |                                 | Conducted<br>Output<br>Power | EIRP  | Conducted<br>Output<br>Power | EIRP  | Conducted<br>Output<br>Power | EIRP  |
| 802.11a                    | 5 180              | 11.00                                | 0.27                            | 11.27                        | 14.21 | -                            | 22.26 | -                            | 8.05  |
|                            | 5 200              | 11.09                                | 0.27                            | 11.36                        | 14.30 | -                            | 22.22 | -                            | 7.92  |
|                            | 5 240              | 10.78                                | 0.27                            | 11.05                        | 13.99 | -                            | 22.23 | -                            | 8.24  |
|                            | 5 260              | 9.14                                 | 0.27                            | 9.41                         | 12.35 | 23.20                        | 29.20 | 13.79                        | 16.85 |
|                            | 5 300              | 9.06                                 | 0.27                            | 9.33                         | 12.27 | 23.21                        | 29.21 | 13.88                        | 16.94 |
|                            | 5 320              | 9.27                                 | 0.27                            | 9.54                         | 12.48 | 23.22                        | 29.22 | 13.68                        | 16.74 |
|                            | 5 500              | 8.43                                 | 0.27                            | 8.70                         | 12.31 | 23.23                        | 29.23 | 14.53                        | 16.92 |
|                            | 5 600              | 8.36                                 | 0.27                            | 8.63                         | 12.24 | 23.18                        | 29.18 | 14.55                        | 16.94 |
|                            | 5 700              | 8.17                                 | 0.27                            | 8.44                         | 12.05 | 23.19                        | 29.19 | 14.75                        | 17.14 |
|                            | 5 720              | 7.91                                 | 0.27                            | 8.18                         | 11.79 | 23.19                        | 29.19 | 15.01                        | 17.40 |
| 802.11n<br>_HT20           | 5 180              | 11.10                                | 0.29                            | 11.39                        | 14.33 | -                            | 22.48 | -                            | 8.15  |
|                            | 5 200              | 11.14                                | 0.29                            | 11.43                        | 14.37 | -                            | 22.51 | -                            | 8.14  |
|                            | 5 240              | 10.55                                | 0.29                            | 10.84                        | 13.78 | -                            | 22.52 | -                            | 8.74  |
|                            | 5 260              | 8.45                                 | 0.29                            | 8.74                         | 11.68 | 23.48                        | 29.48 | 14.74                        | 17.80 |
|                            | 5 300              | 8.50                                 | 0.29                            | 8.79                         | 11.73 | 23.50                        | 29.50 | 14.71                        | 17.77 |
|                            | 5 320              | 8.80                                 | 0.29                            | 9.09                         | 12.03 | 23.49                        | 29.49 | 14.40                        | 17.46 |
|                            | 5 500              | 7.21                                 | 0.29                            | 7.50                         | 11.11 | 23.51                        | 29.51 | 16.01                        | 18.40 |
|                            | 5 600              | 7.13                                 | 0.29                            | 7.42                         | 11.03 | 23.46                        | 29.46 | 16.04                        | 18.43 |
|                            | 5 700              | 6.99                                 | 0.29                            | 7.28                         | 10.89 | 23.47                        | 29.47 | 16.19                        | 18.58 |
|                            | 5 720              | 6.61                                 | 0.29                            | 6.90                         | 10.51 | 23.48                        | 29.48 | 16.58                        | 18.97 |
| Measurement<br>uncertainty |                    | ± 1.5 dB                             |                                 |                              |       |                              |       |                              |       |

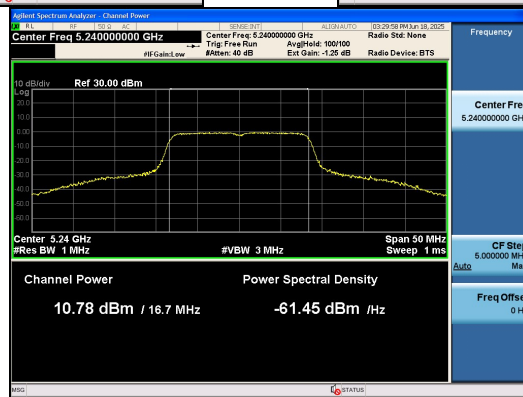
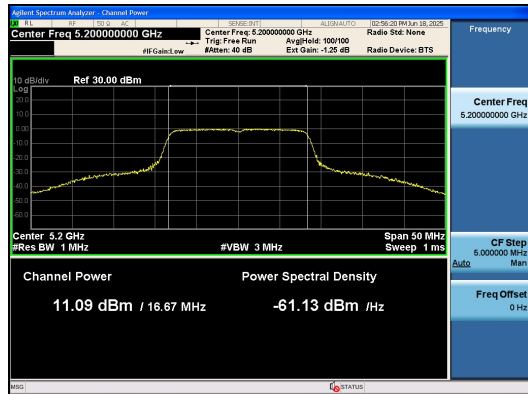
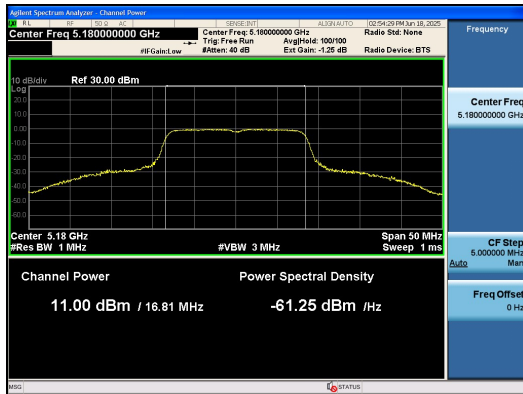
See next pages for actual measured spectrum plots.



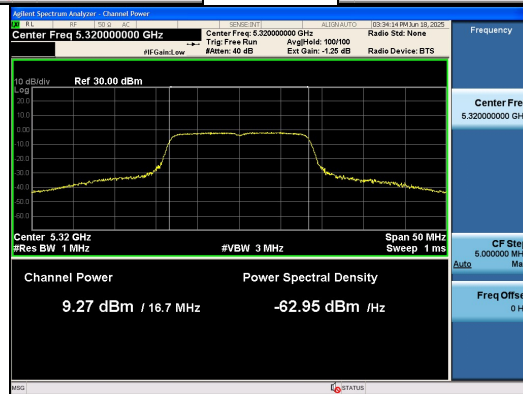
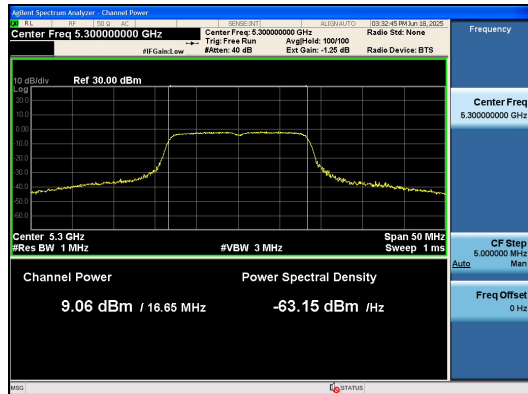
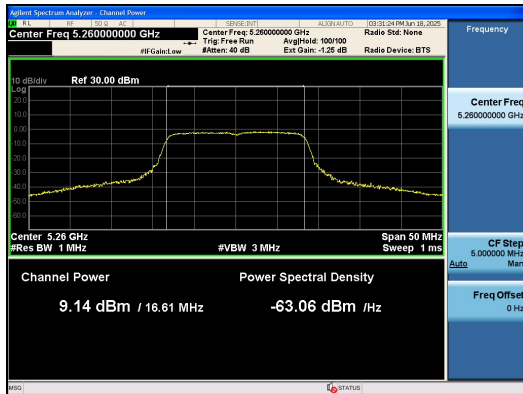
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## 802.11a\_UNII 1



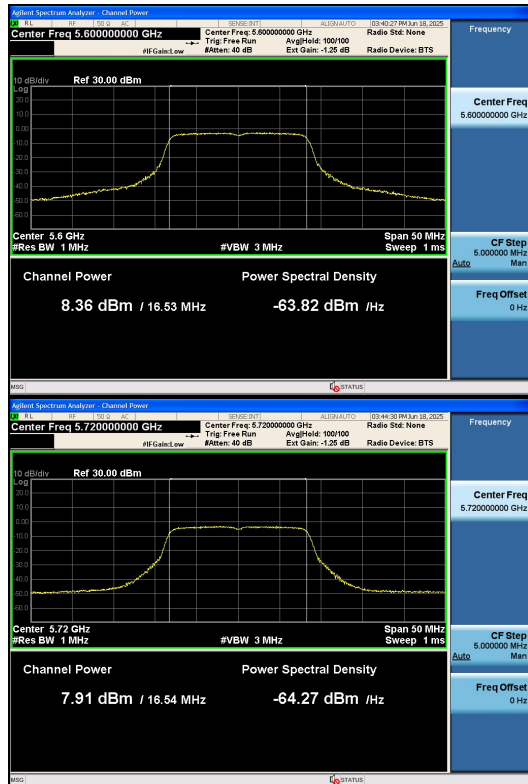
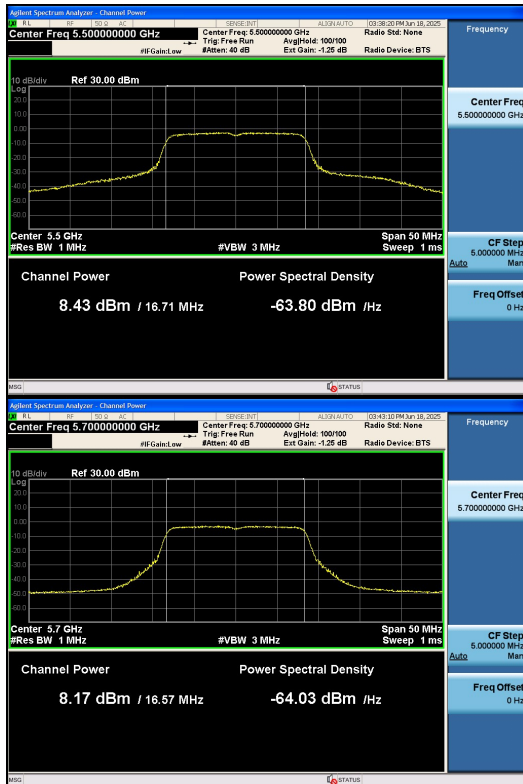
## 802.11a\_UNII 2A



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802.11a\_UNIT 2C