# TEST REPORT

| | | |
|---|---|---|
| **Reference No.**..... | : | WTX25X09250551W001 |
| **FCC ID**..... | : | 2A7RR-AH1 |
| **Applicant**..... | : | Shenzhen hongling smartlink Technology Co., Ltd |
| **Address**..... | : | Xinghe Twin Towers West Tower 2001, Bantian Street, Longgang District, Shenzhen |
| **Manufacturer**..... | : | The same as Applicant |
| **Address**..... | : | The same as Applicant |
| **Product Name**..... | : | Smart Lock |
| **Model No.**..... | : | AH1 |
| **Standards**..... | : | FCC Part 15.247 |
| **Date of Receipt sample**..... | : | 2025-09-17 |
| **Date of Test**..... | : | 2025-09-17 to 2025-10-14 |
| **Date of Issue**..... | : | 2025-10-16 |
| **Test Report Form No.**..... | : | WTX_Part 15_247W |
| **Test Result**..... | : | **Pass** |

Remarks:
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

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## Report version

| Version No. | Date of issue | Description |
|---|---|---|
| Rev.00 | 2025-10-16 | Original |
| / | / | / |

# 1. GENERAL INFORMATION

## 1.1 Product Description for Equipment Under Test (EUT)

| **General Description of EUT** | |
|---|---|
| Product Name: | Smart Lock |
| Trade Name: | / |
| Model No.: | AH1 |
| Adding Model(s): | AH1P |
| Rated Voltage: | Type-C 5V<br>Battery 7.2V |
| Power Adapter Model: | / |
| *Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model AH1, but the circuit and the electronic construction do not change, declared by the manufacturer.* | |

| **Technical Characteristics of EUT** | |
|---|---|
| Support Standards: | 802.11b, 802.11g, 802.11n |
| Frequency Range: | 2412-2462MHz for 802.11b/g/n(HT20) |
| RF Output Power: | 17.91dBm (Conducted) |
| Type of Modulation: | CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM |
| Quantity of Channels: | 11 for 802.11b/g/n(HT20) |
| Channel Separation: | 5MHz |
| Type of Antenna: | FPC Antenna |
| Antenna Gain: | 1.47dBi |
| *Note The Antenna Gain is provided by the customer and can affect the validity of results.* | |

## 1.2 Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15.247:** Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.
**558074 D01 15.247 Meas Guidance v05r02:** Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating undersection 15.247 of the Fcc rules.
**ANSI C63.10-2020:** American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, KDB 558074 D01 15.247 Meas Guidance v05r02.
The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

## 1.4 Test Facility

**Address of the test laboratory**
Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.
Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

**FCC – Registration No.: 125990**
Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is mai ntained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

**Industry Canada (IC) Registration No.: 11464A**
The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

| **Test Mode List** | | |
|---|---|---|
| Test Mode | Description | Remark |
| TM1 | 802.11b | Low:2412MHz, Middle:2437MHz,High:2462MHz |
| TM2 | 802.11g | Low:2412MHz, Middle:2437MHz,High:2462MHz |
| TM3 | 802.11n-HT20 | Low:2412MHz, Middle:2437MHz,High:2462MHz |

| **Test Conditions** | |
|---|---|
| Temperature: | 22~25 °C |
| Relative Humidity: | 45~75 % |
| ATM Pressure: | 1019 mbar |

| **EUT Cable List and Details** | | | |
|---|---|---|---|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| / | / | / | / |

| **Special Cable List and Details** | | | |
|---|---|---|---|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| Type-C Cable | 1.0 | Unshielded | Without Ferrite |

| **Auxiliary Equipment List and Details** | | | |
|---|---|---|---|
| Description | Manufacturer | Model | Serial Number |
| Adapter | Lottie | CHCRIO160 | / |

## 1.6 Measurement Uncertainty

| **Measurement uncertainty** | | |
|---|---|---|
| Parameter | Conditions | Uncertainty |
| RF Output Power | Conducted | 0.57dB |
| Occupied Bandwidth | Conducted | 0.015MHz |
| Power Spectral Density | Conducted | 1.8dB |
| Conducted Spurious Emission | Conducted | 2.17dB |
| Conducted Emissions | Conducted | 9-150kHz, 3.74dB |
| | | 0.15-30MHz, 3.34dB |
| Transmitter Spurious Emissions | Radiated | 30-200MHz, 4.52dB |
| | | 0.2-1GHz 5.56dB |
| | | 1-6GHz, 3.84dB |
| | | 6-18GHz, 3.92dB |

## 1.7 Test Equipment List and Details

| Fixed asset Number | Description | Manufacturer | Model | Serial No. | Cal Date | Due. Date |
|---|---|---|---|---|---|---|
| WTXE1041A 1001 | Communication Tester | Rohde & Schwarz | CMW500 | 148650 | 2025-02-23 | 2026-02-22 |
| WTXE1005A 1005 | Spectrum Analyzer | Agilent | N9020A | US47140102 | 2025-02-23 | 2026-02-22 |
| WTXE1084A 1001 | Spectrum Analyzer | Agilent | N9020A | MY54320548 | 2025-02-23 | 2026-02-22 |
| WTXE1004A 1-001 | Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100612 | 2025-02-23 | 2026-02-22 |
| WTXE1103A 1003 | Attenuator | Pasternack | PE4007-4 | / | 2025-02-23 | 2026-02-22 |
| WTXE1003A 1-005 | Coaxial Cable | / | 0M4RFC | / | 2025-02-23 | 2026-02-22 |
| ☐ Chamber A: Below 1GHz | | | | | | |
| WTXE1005A 1003 | Spectrum Analyzer | Rohde & Schwarz | FSP30 | 836079/035 | 2025-02-23 | 2026-02-22 |
| WTXE1001A 1001 | EMI Test Receiver | Rohde & Schwarz | ESPI | 101611 | 2025-02-23 | 2026-02-22 |
| WTXE1007A 1001 | Amplifier | HP | 8447F | 2805A03475 | 2025-02-23 | 2026-02-22 |
| WTXE1010A 1007 | Loop Antenna | Schwarz beck | FMZB 1516 | 9773 | 2024-02-26 | 2026-02-25 |
| WTXE1010A 1006 | Broadband Antenna | Schwarz beck | VULB9163 | 9163-333 | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1032-1 | Coaxial Cable | / | RC_6G-N-M | / | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1032-2 | Coaxial Cable | / | RC_6G-N-M | / | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1032-3 | Coaxial Cable | / | RC_6G-N-M | / | 2025-02-23 | 2026-02-22 |
| ☐ Chamber A: Above 1GHz | | | | | | |
| WTXE1005A 1003 | Spectrum Analyzer | Rohde & Schwarz | FSP30 | 836079/035 | 2025-02-23 | 2026-02-22 |
| WTXE1001A 1001 | EMI Test Receiver | Rohde & Schwarz | ESPI | 101611 | 2025-02-23 | 2026-02-22 |
| WTXE1065A 1001 | Amplifier | C&D | PAP-1.0G18 | 14918 | 2025-02-23 | 2026-02-22 |
| WTXE1010A 1005 | Horn Antenna | ETS | 3117 | 00086197 | 2025-02-23 | 2026-02-22 |

| | | | | | | |
|---|---|---|---|---|---|---|
| WTXE1010A 1010 | DRG Horn Antenna | A.H. SYSTEMS | SAS-574 | 571 | 2024-03-17 | 2026-03-16 |
| WTXE1003A 1001 | Pre-amplifier | Schwarzbeck | BBV 9721 | 9721-031 | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1033-1 | Coaxial Cable | / | C16-07-07 | / | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1033-2 | Coaxial Cable | / | C16-07-07 | / | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1033-3 | Coaxial Cable | / | C16-07-07 | / | 2025-02-23 | 2026-02-22 |
| ☐ Chamber B:Below 1GHz | | | | | | |
| WTXE1010A 1006 | Trilog Broadband Antenna | Schwarz beck | VULB9163(B) | 9163-635 | 2024-03-17 | 2027-03-16 |
| WTXE1038A 1001 | Amplifier | Agilent | 8447D | 2944A104 57 | 2025-02-23 | 2026-02-22 |
| WTXE1001A 1002 | EMI Test Receiver | Rohde & Schwarz | ESPI | 101391 | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1031-1 | Coaxial Cable | / | 1.5MRFC-LWB3 | / | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1031-2 | Coaxial Cable | / | RG 316 | / | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1031-3 | Coaxial Cable | / | RG 316 | / | 2025-02-23 | 2026-02-22 |
| ☒ Chamber C:Below 1GHz | | | | | | |
| WTXE1093A 1001 | EMI Test Receiver | Rohde & Schwarz | ESIB 26 | 100401 | 2025-02-23 | 2026-02-22 |
| WTXE1010A 1013-1 | Trilog Broadband Antenna | Schwarz beck | VULB 9168 | 1194 | 2024-04-18 | 2027-04-17 |
| WTXE1010A 1007 | Loop Antenna | Schwarz beck | FMZB 1516 | 9773 | 2024-02-26 | 2026-02-25 |
| WTXE1007A 1002 | Amplifier | HP | 8447F | 2944A038 69 | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1034-1 | Coaxial Cable | / | RC_6G-N-M | / | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1034-2 | Coaxial Cable | / | RC_6G-N-M | / | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1034-3 | Coaxial Cable | / | RC_6G-N-M | / | 2025-02-23 | 2026-02-22 |
| ☒ Chamber C: Above 1GHz | | | | | | |
| WTXE1093A | EMI Test | Rohde & | ESIB 26 | 100401 | 2025-02-23 | 2026-02-22 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1001 | Receiver | Schwarz | | | | |
| WTXE1103A 1005 | Horn Antenna | POAM | RTF-118A | 1820 | 2025-06-13 | 2027-06-12 |
| WTXE1103A 1006 | Amplifier | Tonscend | TAP01018050 | AP22E806 235 | 2025-02-23 | 2026-02-22 |
| WTXE1010A 1010 | DRG Horn Antenna | A.H. SYSTEMS | SAS-574 | 571 | 2024-03-17 | 2026-03-16 |
| WTXE1003A 1001 | Pre-amplifier | Schwarzbeck | BBV 9721 | 9721-031 | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1035-1 | Coaxial Cable | / | RC-18G-N-M | / | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1035-2 | Coaxial Cable | / | RC-18G-N-M | / | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1035-3 | Coaxial Cable | / | RC-18G-N-M | / | 2025-02-23 | 2026-02-22 |
| ☐ Conducted Room 1# | | | | | | |
| WTXE1104A 1029 | EMI Test Receiver | Rohde & Schwarz | ESCI | 100525 | 2024-12-08 | 2025-12-07 |
| WTXE1002A 1001 | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100911 | 2025-02-23 | 2026-02-22 |
| WTXE1003A 1001 | AC LISN | Schwarz beck | NSLK8126 | 8126-279 | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1036 | Coaxial Cable | / | RG 316 | / | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1038 | Coaxial Cable | / | 6MRFC-DP | / | 2025-02-23 | 2026-02-22 |
| ☒ Conducted Room 2# | | | | | | |
| WTXE1001A 1004 | EMI Test Receiver | Rohde & Schwarz | ESPI | 101259 | 2025-02-23 | 2026-02-22 |
| WTXE1003A 1003 | LISN | Rohde & Schwarz | ENV 216 | 100097 | 2025-02-23 | 2026-02-22 |
| WTXE1104A 1037 | Coaxial Cable | / | RG 316 | / | 2025-02-23 | 2026-02-22 |

| Software List | | | |
|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **Version** |
| EMI Test Software (Radiated Emission A) | Farad | EZ-EMC | RA-03A1 (1.1.4.2) |
| EMI Test Software (Radiated Emission B) | Farad | EZ-EMC | RA-03A1 (1.1.4.2) |
| EMI Test Software (Radiated Emission C) | Farad | EZ-EMC | RA-03A1-2 (1.1.4.2) |
| EMI Test Software (Conducted Emission Room 1#) | Farad | EZ-EMC | 3A1*CE-RE 1.1.4.3 |
| EMI Test Software (Conducted Emission Room 2#) | Farad | EZ-EMC | 3A1*CE-RE 1.1.4.3 |

*Remark: indicates software version used in the compliance certification testing.

# 2. SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test Item | Result |
|---|---|---|
| §15.203; §15.247(b)(4)(i) | Antenna Requirement | Compliant |
| §15.205 | Restricted Band of Operation | Compliant |
| §15.207(a) | Conducted Emission | Compliant |
| §15.247(e) | Power Spectral Density | Compliant |
| §15.247(a)(2) | DTS Bandwidth | Compliant |
| §15.247(b)(3) | RF Output Power | Compliant |
| §15.209(a) | Radiated Emission | Compliant |
| §15.247(d) | Band Edge (Out of Band Emissions) | Compliant |

N/A: Not applicable.

# 3. Antenna Requirement

## 3.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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.

## 3.2 Evaluation Information

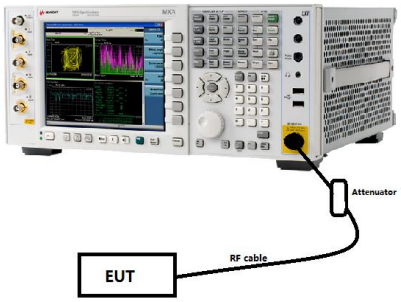
This product has a FPC antenna, fulfill the requirement of this section.

# 4. Power Spectral Density

## 4.1 Standard Applicable

According to 15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

## 4.2 Test Setup Block Diagram




## 4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2020 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

a) Set instrument center frequency to DTS channel center frequency.
b) Set span to at least 1.5 times the OBW.
c) Set RBW to: 3kHz ≤ RBW ≤ 100kHz. .
d) Set VBW ≥3 x RBW.
e) Detector = power averaging (RMS) or sample detector (when RMS not available).
f) Ensure that the number of measurement points in the sweep ≥ 2 x span/RBW.
g) Sweep time = auto couple.
h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
i) Use the peak marker function to determine the maximum amplitude level.
j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

## 4.4 Summary of Test Results/Plots

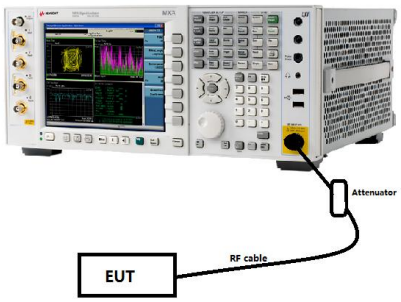
**Please refer to Appendix A**

# 5. DTS Bandwidth

## 5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

## 5.2 Test Setup Block Diagram




## 5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2020 Subclause 11.8.1, the test method of DTS Bandwidth as below:

a) Set RBW = 100kHz.
b) Set the video bandwidth (VBW) ≥ 3 × RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 5.4 Summary of Test Results/Plots

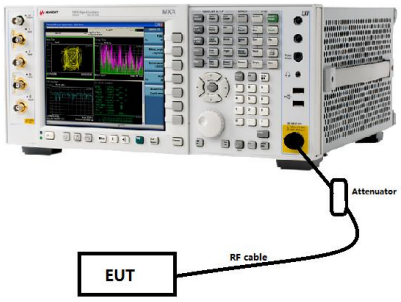
**Please refer to Appendix B**

# 6. RF Output Power

## 6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands: 1 Watt.

## 6.2 Test Setup Block Diagram




## 6.3 Test Procedure

According to the KDB-558074 D01 v05r02 Sub clause 8.3.2.2 and ANSI C63.10-2020 Sub clause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth.

a) Set span to at least 1.5 times the OBW.
b) Set RBW = 1-5% of the OBW, not to exceed 1MHz.
c) Set VBW ≥ 3 x RBW.
d) Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
e) Sweep time = auto.
f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
i) Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

## 6.4 Summary of Test Results/Plots

**Please refer to Appendix C**

# 7. Field Strength of Spurious Emissions

## 7.1 Standard Applicable

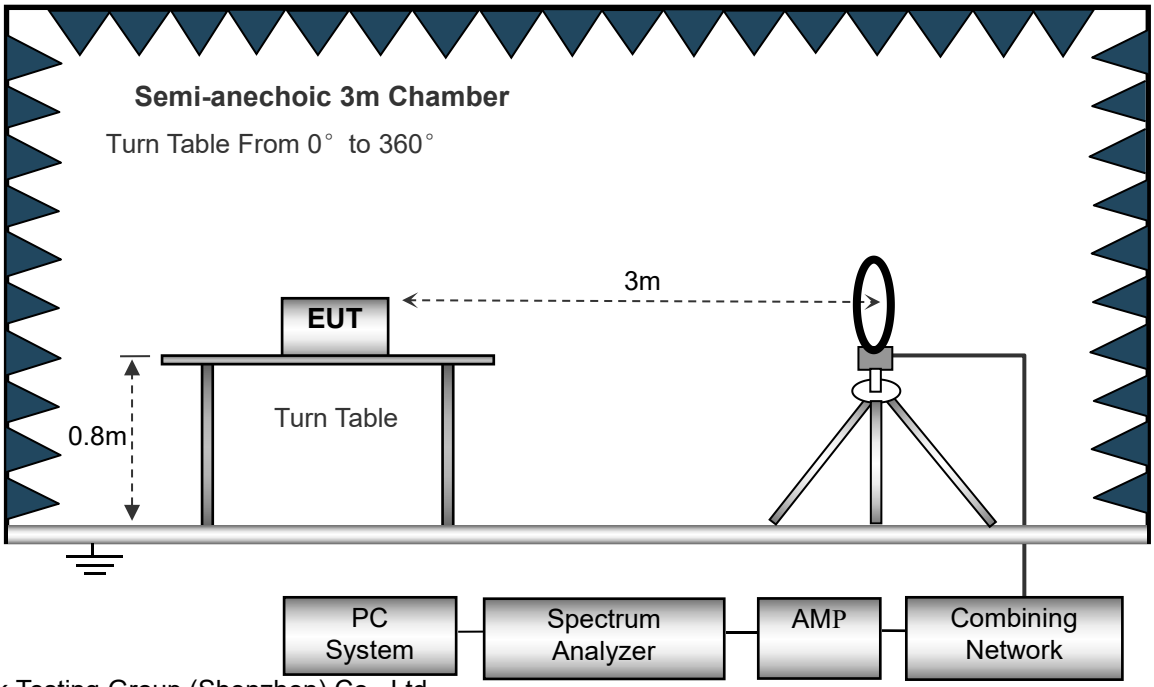
According to §15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

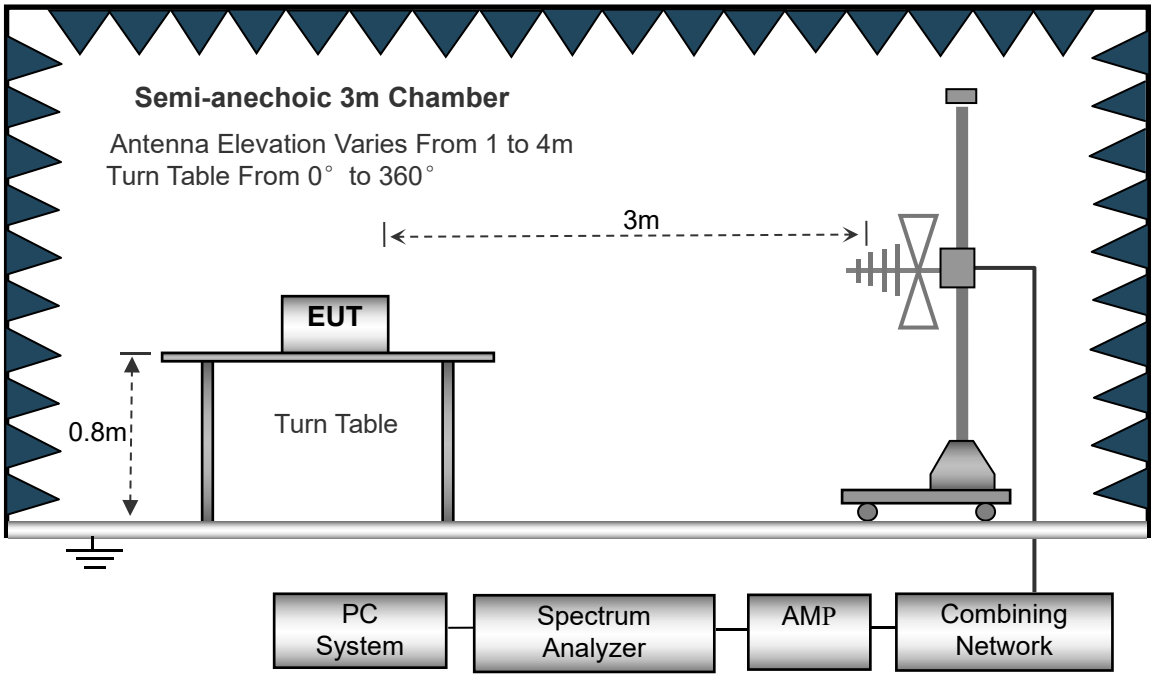
## 7.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

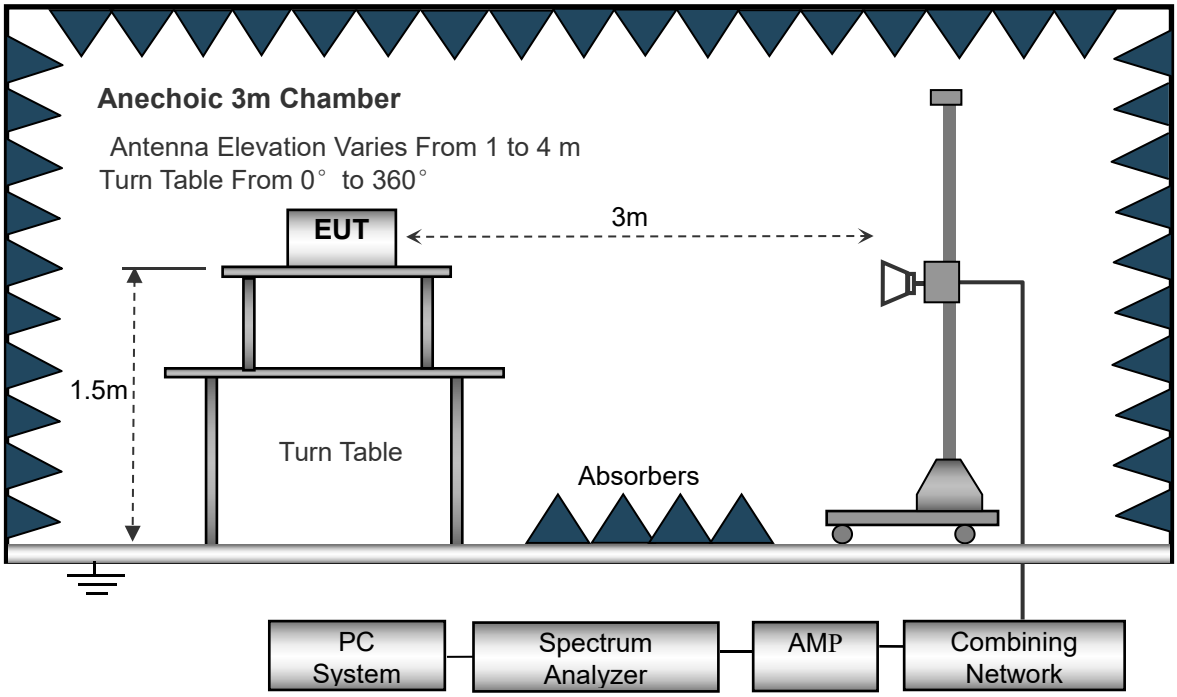
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.




The test setup for emission measurement above 1GHz.



| | | |
|---|---|---|
| Frequency :9kHz-30MHz | Frequency :30MHz-1GHz | Frequency :Above 1GHz |
| RBW=10kHz, | RBW=120kHz, | RBW=1MHz, |
| VBW =30kHz | VBW=300kHz | VBW=3MHz(Peak), 10Hz(AV) |
| Sweep time= Auto | Sweep time= Auto | Sweep time= Auto |
| Trace = max hold | Trace = max hold | Trace = max hold |
| Detector function = peak | Detector function = peak, QP | Detector function = peak, AV |

## 7.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss – Ampl. Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit. The equation for margin calculation is as follows:

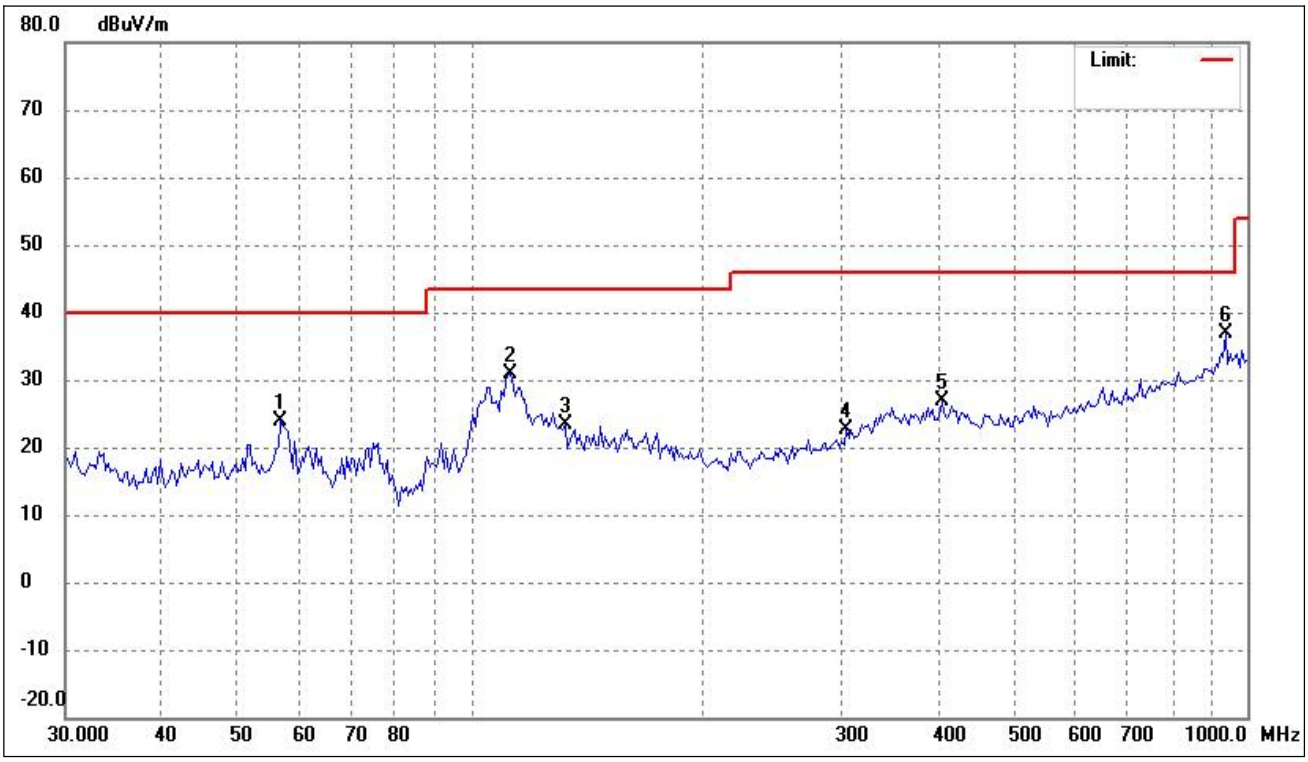
Margin = Corr. Ampl. – FCC Part 15 Limit

## 7.4 Summary of Test Results/Plots

*Note: 1.This EUT was tested in 3 orthogonal positions and the worst case position data was reported.*
*All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b_ 11Mbps) is recorded in this report.*

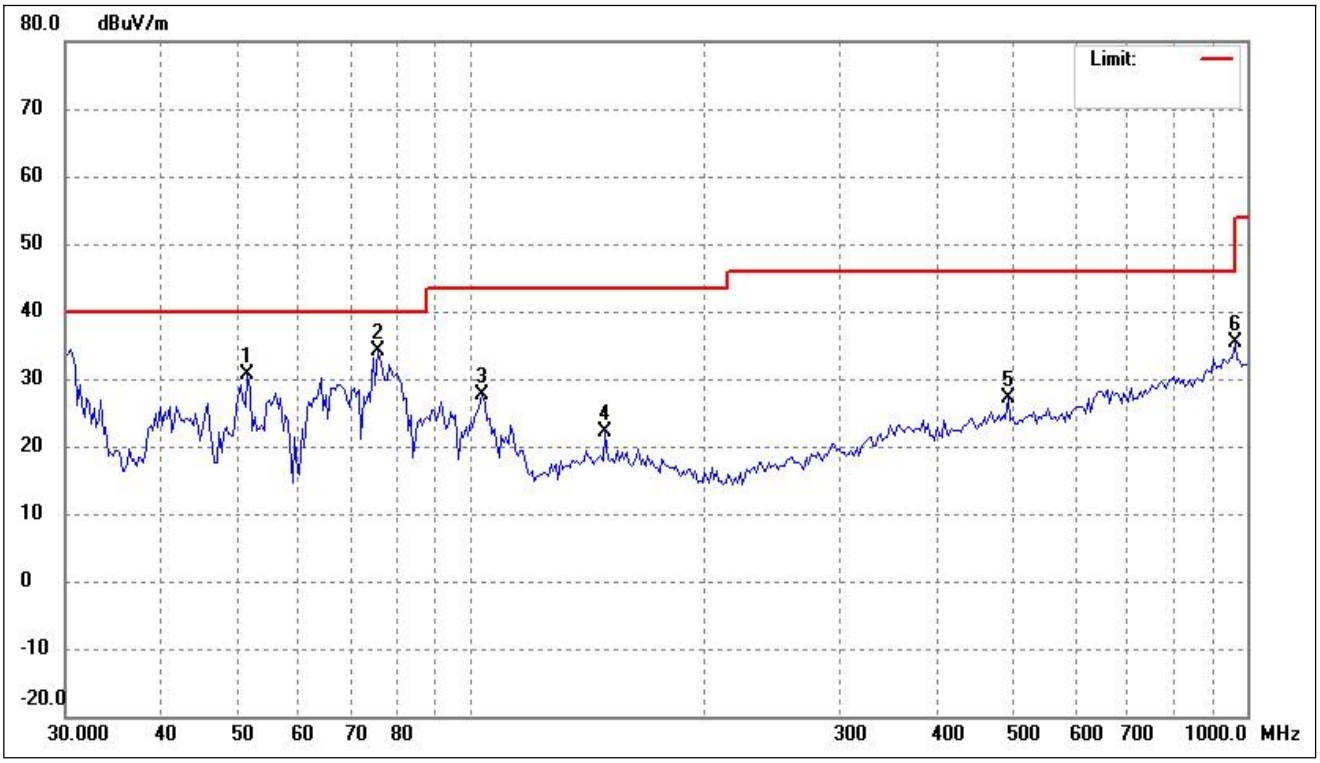
➢ Spurious Emissions Below 1GHz

| 802.11b_11Mbps | | | |
|---|---|---|---|
| Test Channel | Low(worst case) | Polarity: | Horizontal |




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (·) | (cm) | |
| 1 | 56.8644 | 33.09 | -9.30 | 23.79 | 40.00 | -16.21 | - | - | peak |
| 2 | 112.4271 | 42.60 | -11.66 | 30.94 | 43.50 | -12.56 | - | - | peak |
| 3 | 132.1490 | 33.38 | -9.95 | 23.43 | 43.50 | -20.07 | - | - | peak |
| 4 | 304.9548 | 30.34 | -7.65 | 22.69 | 46.00 | -23.31 | - | - | peak |
| 5 | 403.9335 | 32.91 | -6.03 | 26.88 | 46.00 | -19.12 | - | - | peak |
| 6 | 938.7139 | 34.27 | 2.72 | 36.99 | 46.00 | -9.01 | - | - | peak |

| 802.11b_11Mbps | | | |
|---|---|---|---|
| Test Channel | Low(worst case) | Polarity: | Vertical |




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (·) | (cm) | |
| 1 | 51.5365 | 39.56 | -8.99 | 30.57 | 40.00 | -9.43 | - | - | peak |
| 2 | 75.8520 | 46.40 | -12.25 | 34.15 | 40.00 | -5.85 | - | - | peak |
| 3 | 103.3353 | 40.51 | -13.00 | 27.51 | 43.50 | -15.99 | - | - | peak |
| 4 | 148.9175 | 31.02 | -8.91 | 22.11 | 43.50 | -21.39 | - | - | peak |
| 5 | 491.7700 | 31.62 | -4.52 | 27.10 | 46.00 | -18.90 | - | - | peak |
| 6 | 965.4742 | 32.41 | 2.98 | 35.39 | 54.00 | -18.61 | - | - | peak |

Remark: '-'Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

- Spurious Emissions Above 1GHz
- *Test Mode: 802.11b_11Mbps (worst case)*

| Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Polar H/V | Detector |
|---|---|---|---|---|---|---|---|
| Low Channel-2412MHz | | | | | | | |
| 4820.583 | 58.58 | -13.21 | 45.37 | 74.00 | -28.63 | H | PK |
| 7236.000 | 54.08 | -6.94 | 47.14 | 74.00 | -26.86 | H | PK |
| 4824.000 | 54.92 | -13.21 | 41.71 | 74.00 | -32.29 | V | PK |
| 7236.000 | 54.55 | -6.94 | 47.61 | 74.00 | -26.39 | V | PK |
| Middle Channel-2437MHz | | | | | | | |
| 4874.000 | 54.77 | -13.15 | 41.62 | 74.00 | -32.38 | H | PK |
| 7311.000 | 53.73 | -7.15 | 46.58 | 74.00 | -27.42 | H | PK |
| 4874.000 | 54.63 | -13.15 | 41.48 | 74.00 | -32.52 | V | PK |
| 7311.000 | 53.53 | -7.15 | 46.38 | 74.00 | -27.62 | V | PK |
| High Channel-2462MHz | | | | | | | |
| 4920.723 | 57.14 | -13.09 | 44.05 | 74.00 | -29.95 | H | PK |
| 7386.000 | 54.65 | -7.37 | 47.28 | 74.00 | -26.72 | H | PK |
| 4924.000 | 54.91 | -13.09 | 41.82 | 74.00 | -32.18 | V | PK |
| 7386.000 | 54.15 | -7.37 | 46.78 | 74.00 | -27.22 | V | PK |

*Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*

# 8. Out of Band Emissions

## 8.1 Standard Applicable

According to §15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

## 8.2 Test Procedure

According to the KDB 558074D01 v05r02 Subclause 8.4 and ANSI C63.10-2020 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

a) Set the center frequency and span to encompass frequency range to be measured.
b) Set the RBW = 100kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = auto couple.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2020 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:
Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)
RBW = 1MHz, VBW = 1MHz for peak value measured
RBW = 1MHz, VBW = 10Hz for average value measured
Sweep = auto; Detector function = peak/average; Trace = max hold
All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission

must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

a) RBW = as specified in Table 9.

b) VBW ≥ [3 × RBW].

c) Detector = peak.

d) Sweep time = auto.

e) Trace mode = max hold.

f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

**Table 9—RBW as a function of frequency**

| Frequency | RBW |
|---|---|
| 9 kHz to 150 kHz | 200 Hz to 300 Hz |
| 0.15 MHz to 30 MHz | 9 kHz to 10 kHz |
| 30 MHz to 1000 MHz | 100 kHz to 120 kHz |
| >1000 MHz | 1 MHz |

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

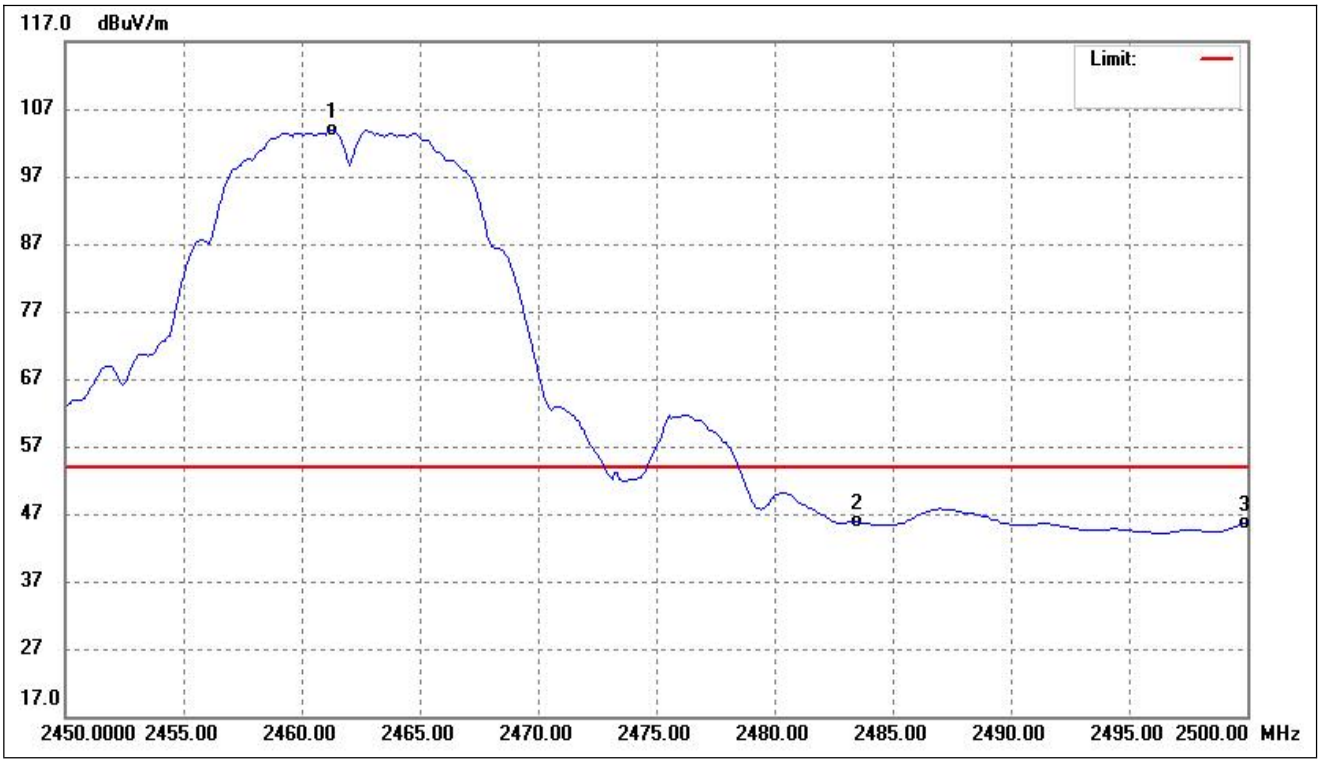
## 8.3 Summary of Test Results/Plots

➢ Radiated test

| 802.11b_11Mbps | | | |
|---|---|---|---|
| Test Channel | Low | Polarity: | Horizontal(worst case) |

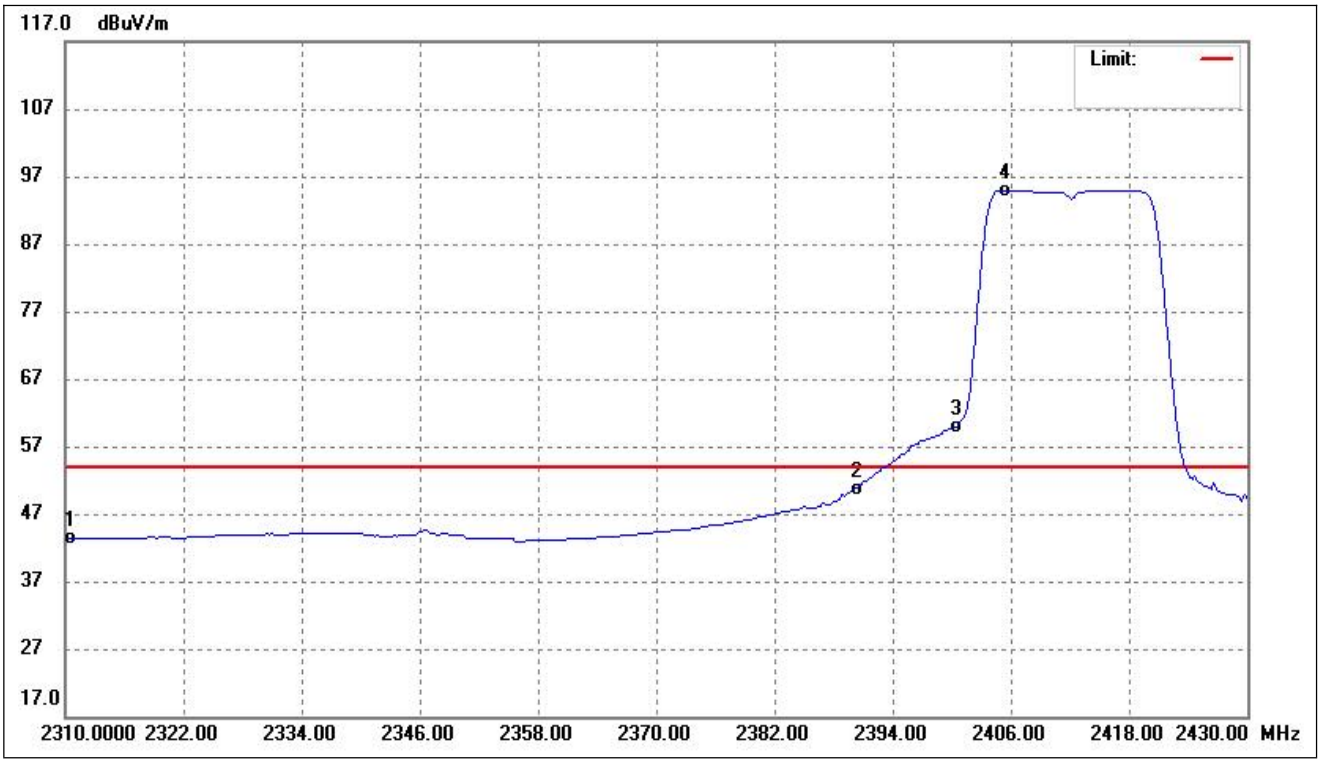
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2310.000 | 43.05 | 0.50 | 43.55 | 54.00 | -10.45 | Average Detector |
| | 2310.000 | 55.86 | 0.50 | 56.36 | 74.00 | -17.64 | Peak Detector |
| 2 | 2390.000 | 49.24 | 0.69 | 49.93 | 54.00 | -4.07 | Average Detector |
| | 2390.000 | 62.29 | 0.69 | 62.98 | 74.00 | -11.02 | Peak Detector |
| 3 | 2400.000 | 61.29 | 0.71 | 62.00 | Delta=42.18dBc | | Average Detector |
| 4 | 2411.483 | 103.43 | 0.75 | 104.18 | | | Average Detector |

| 802.11b_11Mbps | | | |
|---|---|---|---|
| Test Channel | High | Polarity: | Horizontal(worst case) |



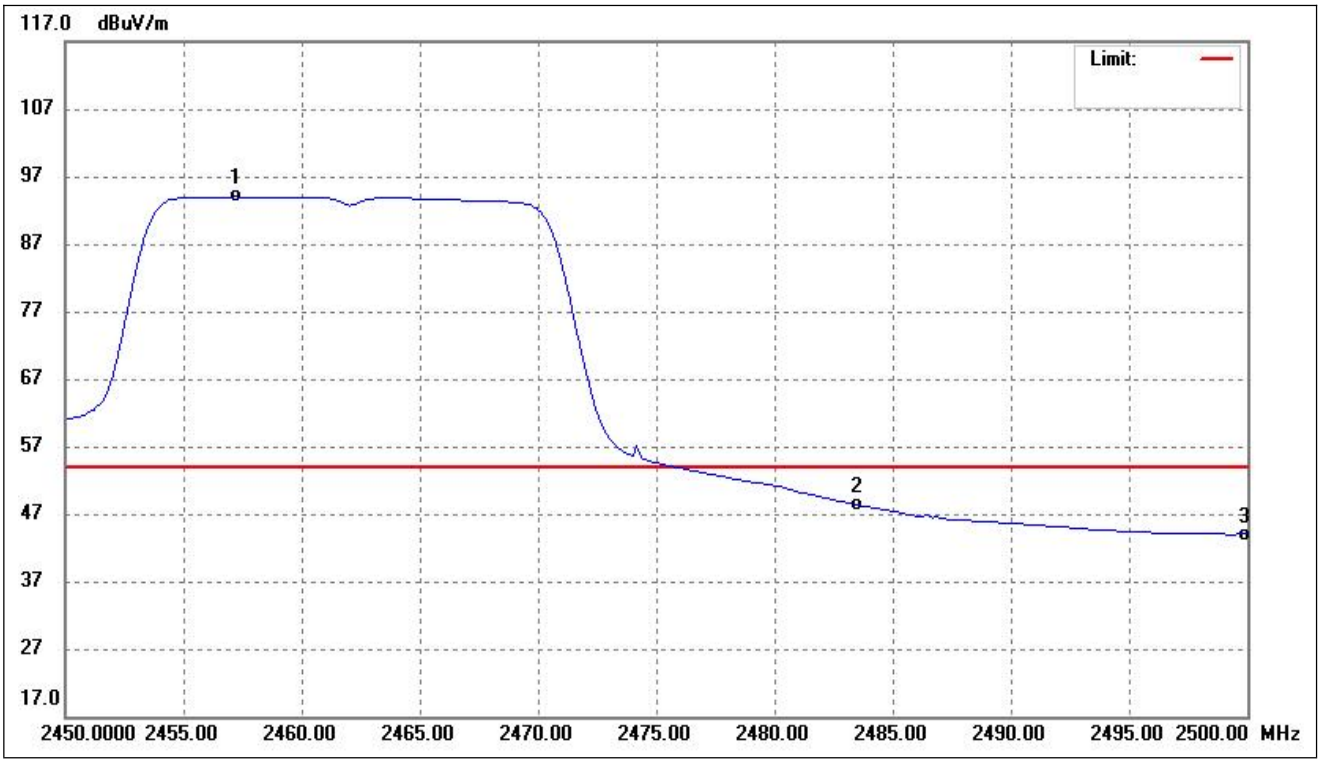

| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2461.323 | 102.98 | 0.85 | 103.83 | / | / | Average Detector |
| | 2460.521 | 107.69 | 0.85 | 108.54 | / | / | Peak Detector |
| 2 | 2483.500 | 44.88 | 0.91 | 45.79 | 54.00 | -8.21 | Average Detector |
| | 2483.500 | 57.24 | 0.91 | 58.15 | 74.00 | -15.85 | Peak Detector |
| 3 | 2500.000 | 44.70 | 0.95 | 45.65 | 54.00 | -8.35 | Average Detector |
| | 2500.000 | 58.25 | 0.95 | 59.20 | 74.00 | -14.80 | Peak Detector |

| 802.11g_54Mbps | | | |
|---|---|---|---|
| Test Channel | Low | Polarity: | Horizontal(worst case) |



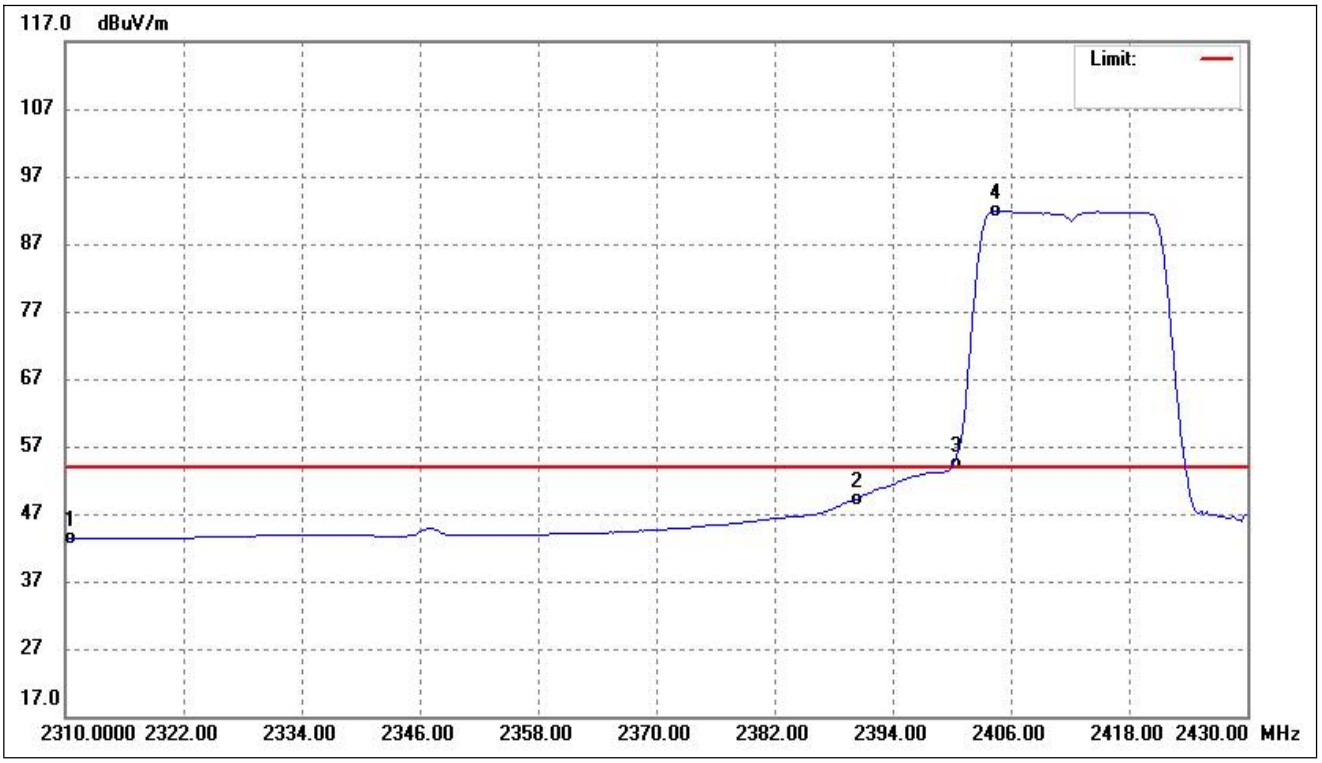

| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2310.000 | 42.89 | 0.50 | 43.39 | 54.00 | -10.61 | Average Detector |
| | 2310.000 | 55.97 | 0.50 | 56.47 | 74.00 | -17.53 | Peak Detector |
| 2 | 2390.000 | 49.94 | 0.69 | 50.63 | 54.00 | -3.37 | Average Detector |
| | 2390.000 | 69.83 | 0.69 | 70.52 | 74.00 | -3.48 | Peak Detector |
| 3 | 2400.000 | 59.09 | 0.71 | 59.80 | Delta=35.16dBc | | Average Detector |
| 4 | 2405.230 | 94.24 | 0.72 | 94.96 | | | Average Detector |

| 802.11g_54Mbps | | | |
|---|---|---|---|
| Test Channel | High | Polarity: | Horizontal(worst case) |



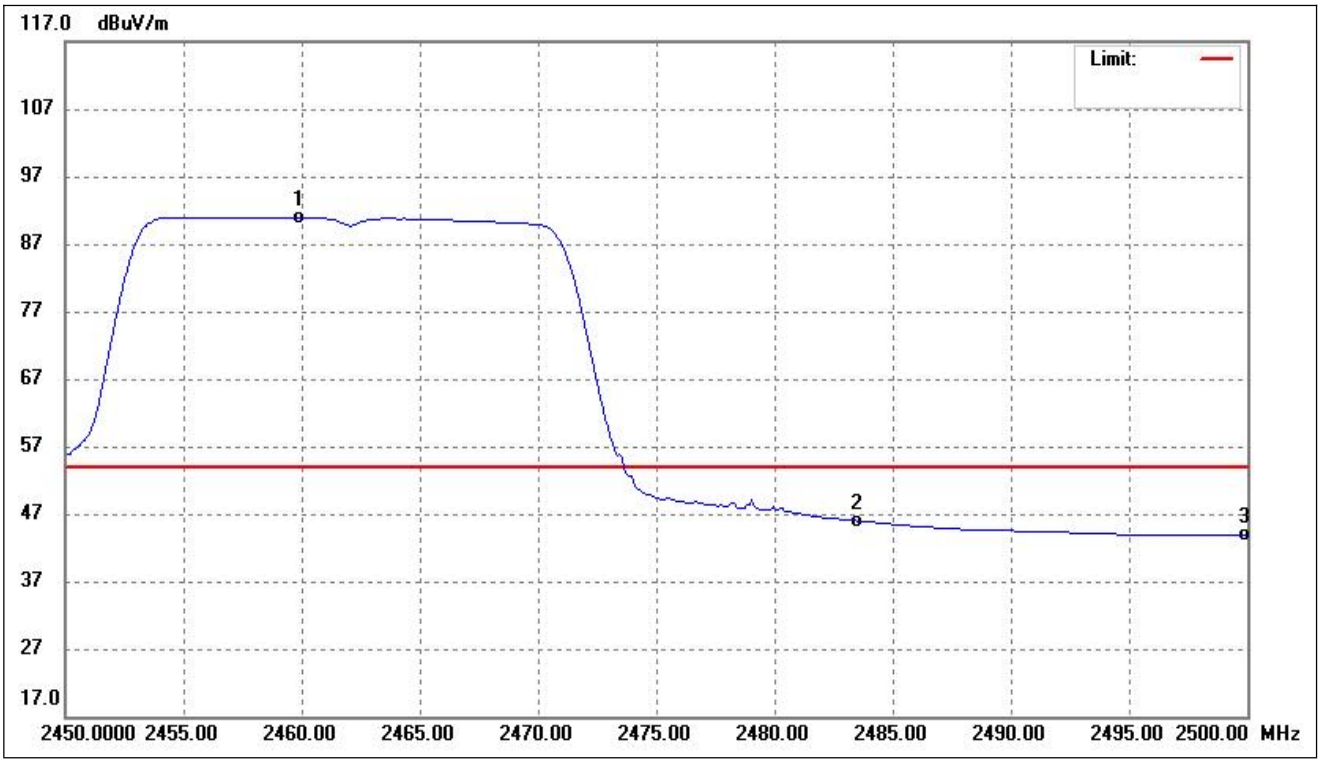

| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2457.214 | 93.16 | 0.85 | 94.01 | / | / | Average Detector |
| | 2457.415 | 106.40 | 0.85 | 107.25 | / | / | Peak Detector |
| 2 | 2483.500 | 47.41 | 0.91 | 48.32 | 54.00 | -5.68 | Average Detector |
| | 2483.500 | 64.97 | 0.91 | 65.88 | 74.00 | -8.12 | Peak Detector |
| 3 | 2500.000 | 43.05 | 0.95 | 44.00 | 54.00 | -10.00 | Average Detector |
| | 2500.000 | 56.86 | 0.95 | 57.81 | 74.00 | -16.19 | Peak Detector |

| 802.11n-HT20_MCS7 | | | |
|---|---|---|---|
| Test Channel | Low | Polarity: | Horizontal(worst case) |




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2310.000 | 42.84 | 0.50 | 43.34 | 54.00 | -10.66 | Average Detector |
| | 2310.000 | 55.41 | 0.50 | 55.91 | 74.00 | -18.09 | Peak Detector |
| 2 | 2390.000 | 48.40 | 0.69 | 49.09 | 54.00 | -4.91 | Average Detector |
| | 2390.000 | 65.41 | 0.69 | 66.10 | 74.00 | -7.90 | Peak Detector |
| 3 | 2400.000 | 53.77 | 0.71 | 54.48 | Delta=37.49dBc | | Average Detector |
| 4 | 2404.509 | 91.25 | 0.72 | 91.97 | | | Average Detector |

| 802.11n-HT20_MCS7 | | | |
|---|---|---|---|
| Test Channel | High | Polarity: | Horizontal(worst case) |




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2459.920 | 90.08 | 0.85 | 90.93 | / | / | Average Detector |
| | 2466.533 | 102.57 | 0.87 | 103.44 | / | / | Peak Detector |
| 2 | 2483.500 | 45.05 | 0.91 | 45.96 | 54.00 | -8.04 | Average Detector |
| | 2483.500 | 60.38 | 0.91 | 61.29 | 74.00 | -12.71 | Peak Detector |
| 3 | 2500.000 | 42.86 | 0.95 | 43.81 | 54.00 | -10.19 | Average Detector |
| | 2500.000 | 55.67 | 0.95 | 56.62 | 74.00 | -17.38 | Peak Detector |

- Conducted test

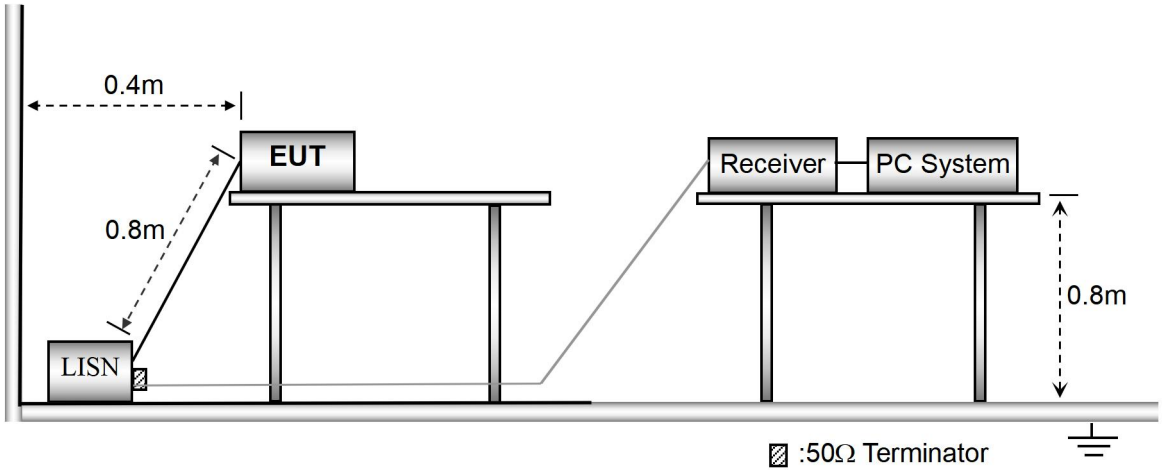
**Please refer to Appendix D**

# 9. Conducted Emissions

## 9.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 Limit.
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

## 9.2 Basic Test Setup Block Diagram



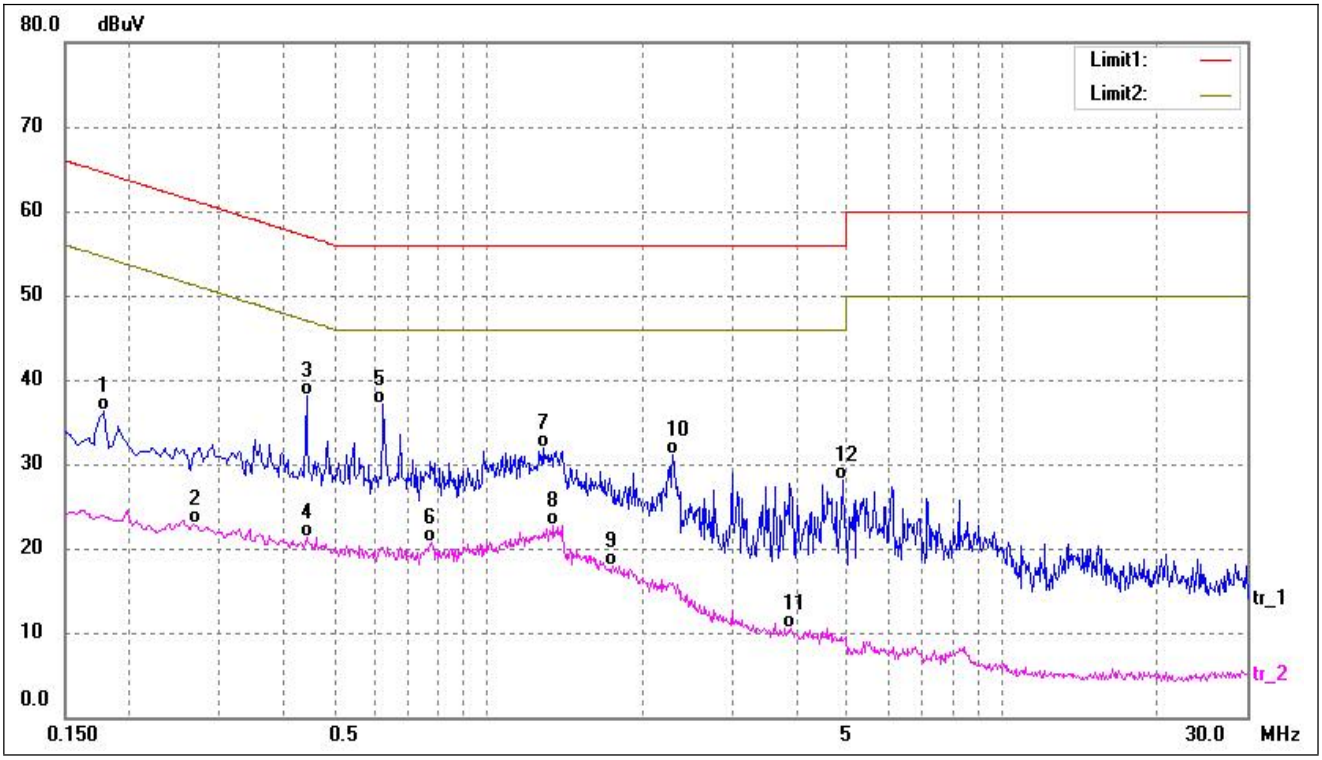

## 9.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency..... 150kHz
Stop Frequency..... 30MHz
Sweep Speed.....Auto
IF Bandwidth..... 10kHz
Quasi-Peak Adapter Bandwidth.....9kHz
Quasi-Peak Adapter Mode.....Normal

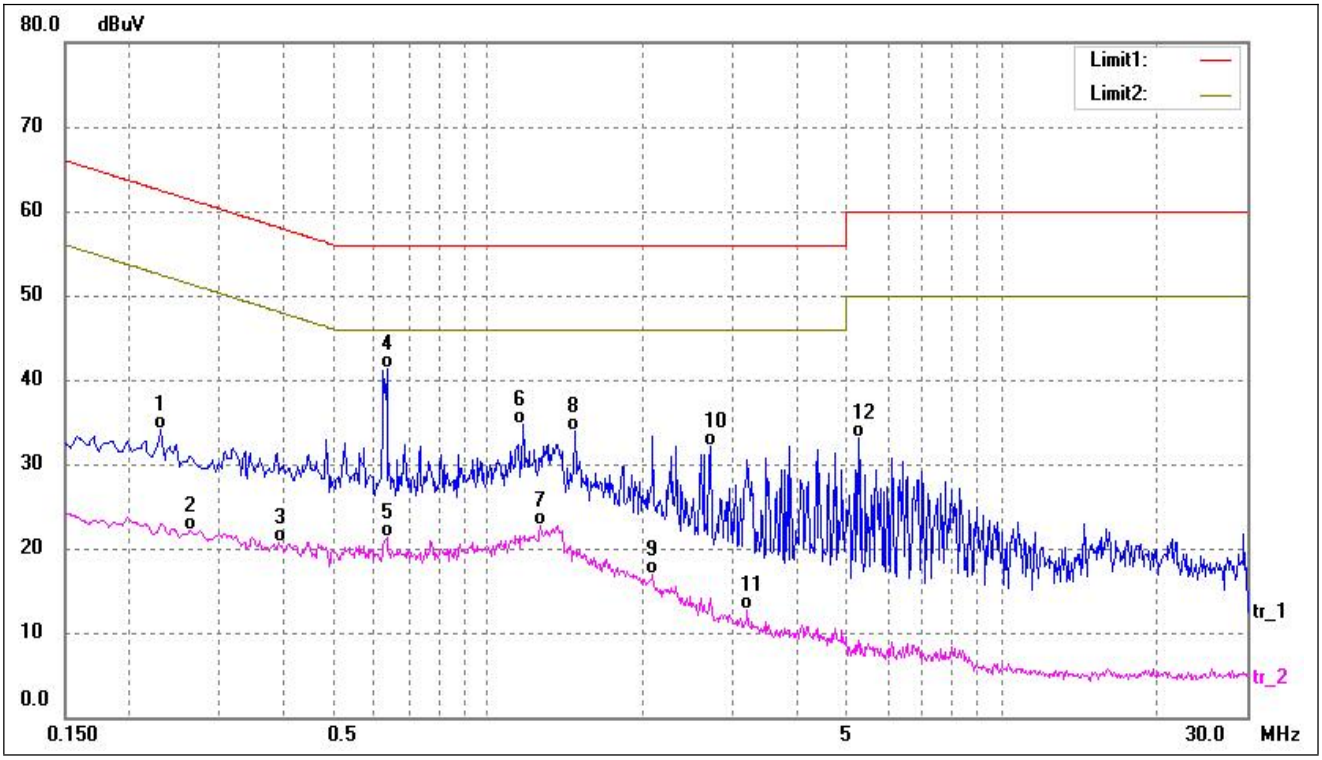
## 9.4 Summary of Test Results/Plots

| Test Mode | Communication | AC120V 60Hz | Polarity: | Neutral |
|---|---|---|---|---|




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Detector |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1779 | 26.70 | 9.54 | 36.24 | 64.58 | -28.34 | QP |
| 2 | 0.2660 | 13.28 | 9.63 | 22.91 | 51.24 | -28.33 | AVG |
| 3 | 0.4420 | 28.41 | 9.64 | 38.05 | 57.02 | -18.97 | QP |
| 4 | 0.4420 | 11.66 | 9.64 | 21.30 | 47.02 | -25.72 | AVG |
| 5* | 0.6260 | 27.40 | 9.70 | 37.10 | 56.00 | -18.90 | QP |
| 6 | 0.7780 | 10.99 | 9.75 | 20.74 | 46.00 | -25.26 | AVG |
| 7 | 1.2820 | 22.23 | 9.65 | 31.88 | 56.00 | -24.12 | QP |
| 8 | 1.3380 | 13.07 | 9.62 | 22.69 | 46.00 | -23.31 | AVG |
| 9 | 1.7500 | 8.49 | 9.46 | 17.95 | 46.00 | -28.05 | AVG |
| 10 | 2.2940 | 21.79 | 9.37 | 31.16 | 56.00 | -24.84 | QP |
| 11 | 3.8900 | 1.08 | 9.45 | 10.53 | 46.00 | -35.47 | AVG |
| 12 | 4.9180 | 18.45 | 9.56 | 28.01 | 56.00 | -27.99 | QP |

| Test Mode | Communication | AC120V 60Hz | Polarity: | Line |
|---|---|---|---|---|




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Detector |
|---|---|---|---|---|---|---|---|
| | (MHz) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.2300 | 24.49 | 9.63 | 34.12 | 62.45 | -28.33 | QP |
| 2 | 0.2620 | 12.52 | 9.63 | 22.15 | 51.36 | -29.21 | AVG |
| 3 | 0.3899 | 11.14 | 9.64 | 20.78 | 48.06 | -27.28 | AVG |
| 4* | 0.6340 | 31.59 | 9.71 | 41.30 | 56.00 | -14.70 | QP |
| 5 | 0.6340 | 11.61 | 9.71 | 21.32 | 46.00 | -24.68 | AVG |
| 6 | 1.1699 | 24.92 | 9.69 | 34.61 | 56.00 | -21.39 | QP |
| 7 | 1.2660 | 13.09 | 9.65 | 22.74 | 46.00 | -23.26 | AVG |
| 8 | 1.4738 | 24.27 | 9.57 | 33.84 | 56.00 | -22.16 | QP |
| 9 | 2.0899 | 7.53 | 9.36 | 16.89 | 46.00 | -29.11 | AVG |
| 10 | 2.7139 | 22.77 | 9.39 | 32.16 | 56.00 | -23.84 | QP |
| 11 | 3.1979 | 3.28 | 9.41 | 12.69 | 46.00 | -33.31 | AVG |
| 12 | 5.2740 | 23.45 | 9.60 | 33.05 | 60.00 | -26.95 | QP |

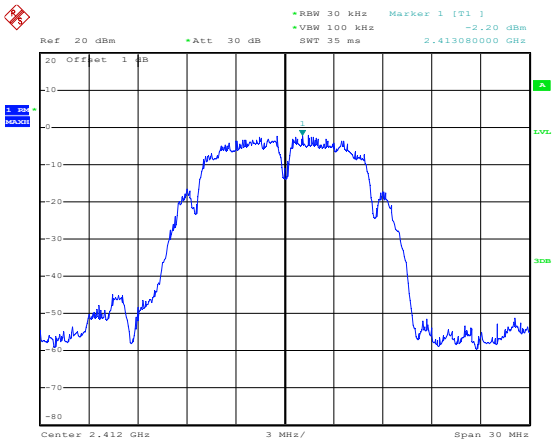
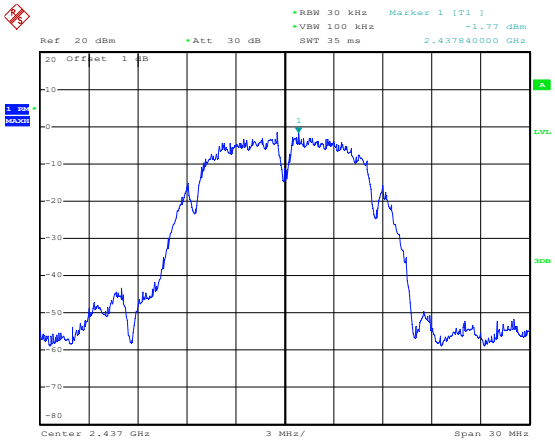
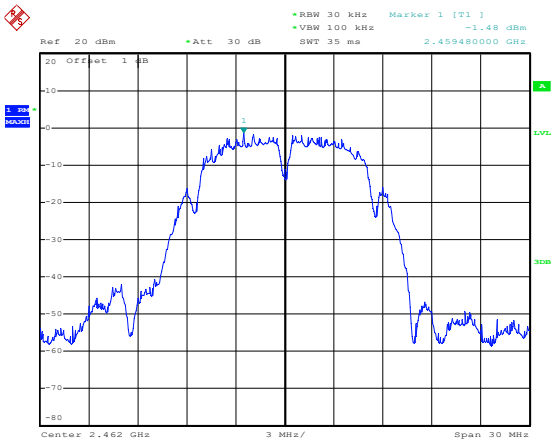
# APPENDIX SUMMARY

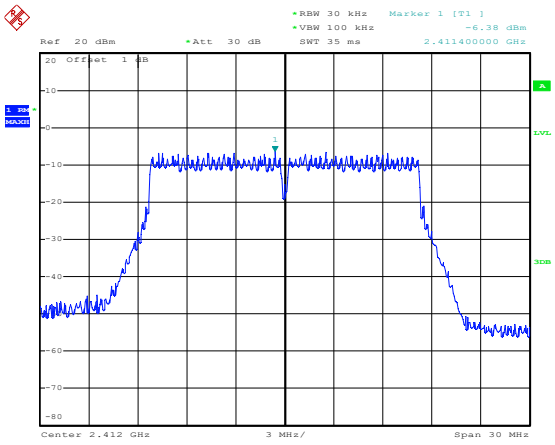
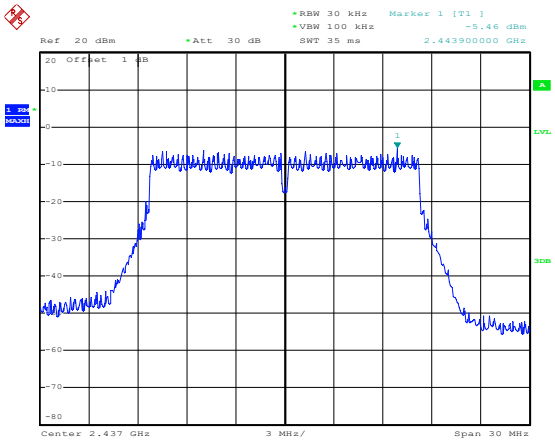
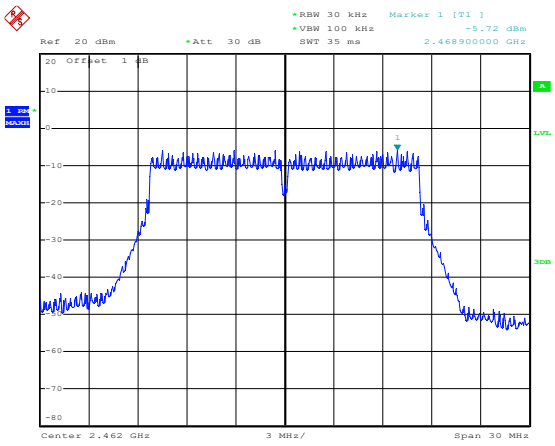
| | | | |
|---|---|---|---|
| Project No. | WTX25X09250551W001 | Test Engineer | Timi Huang |
| Start date | 2025/9/25 | Finish date | 2025/9/25 |
| Temperature | 21.7℃ | Humidity | 57% |
| RF specifications | WIFI-2.4G | | |

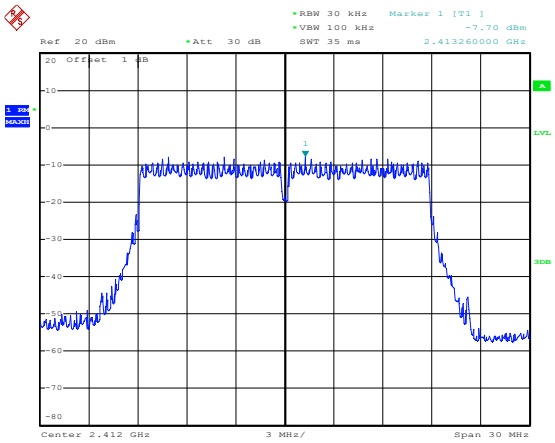
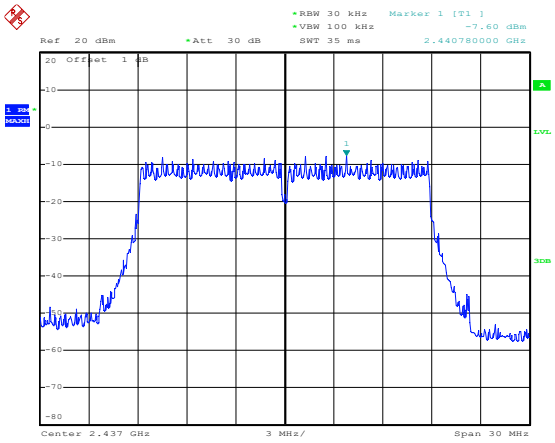
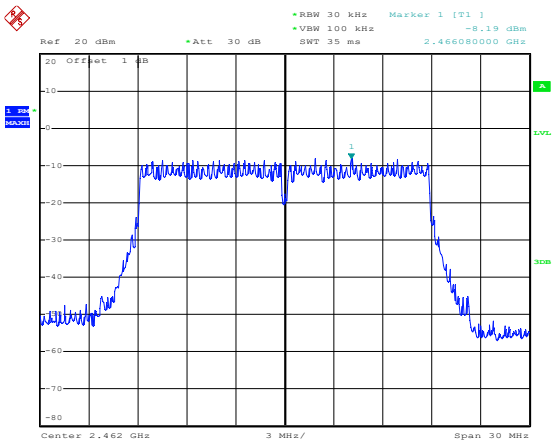
| APPENDIX | Description of Test Item | Result |
|---|---|---|
| A | Power Spectral Density | Compliant |
| B | DTS Bandwidth | Compliant |
| C | RF Output Power | Compliant |
| D | Conducted Out of Band Emissions | Compliant |

# APPENDIX A

| Power Spectral Density | | | |
|---|---|---|---|
| **Test Mode** | **Test Channel MHz** | **Power Spectral Density dBm/3kHz** | **Limit dBm/3kHz** |
| 802.11b_11Mbps | 2412 | -2.20 | 8 |
| | 2437 | -1.77 | 8 |
| | 2462 | -1.48 | 8 |
| 802.11g_54Mbps | 2412 | -6.38 | 8 |
| | 2437 | -5.46 | 8 |
| | 2462 | -5.72 | 8 |
| 802.11n-HT20_MCS7 | 2412 | -7.70 | 8 |
| | 2437 | -7.60 | 8 |
| | 2462 | -8.19 | 8 |

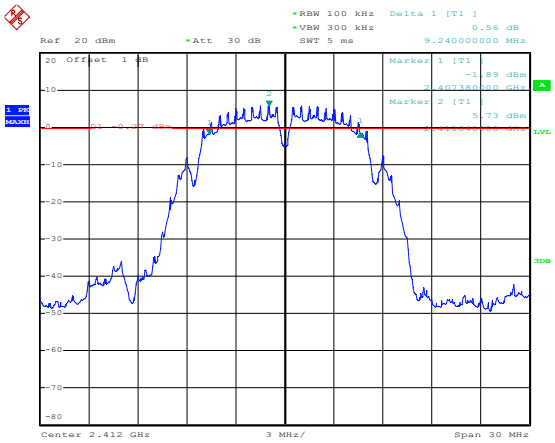
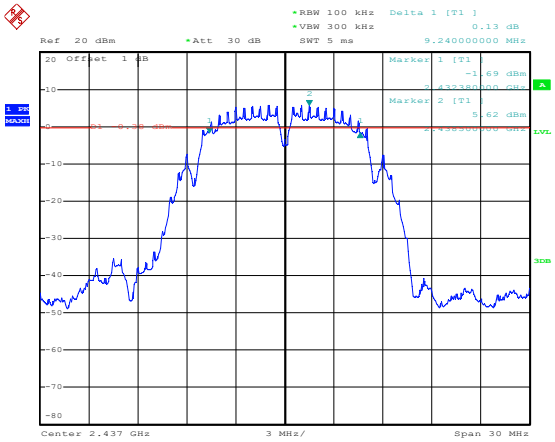
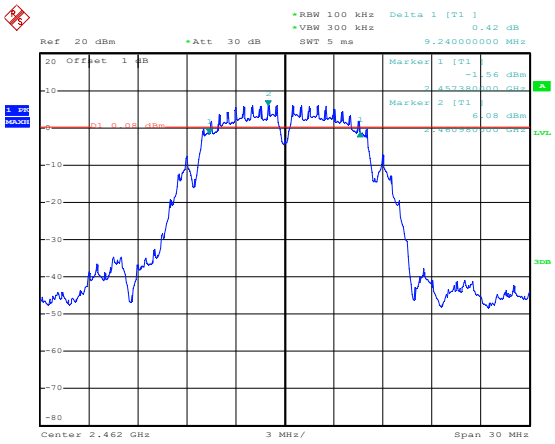
| | |
|---|---|
| 802.11b-Low |  <br>Date: 25.SEP.2025 17:37:52 |
| 802.11b-Middle |  <br>Date: 25.SEP.2025 17:38:24 |
| 802.11b-High |  <br>Date: 25.SEP.2025 17:39:02 |

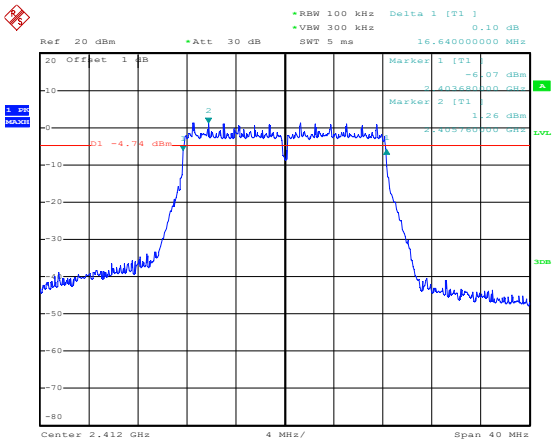
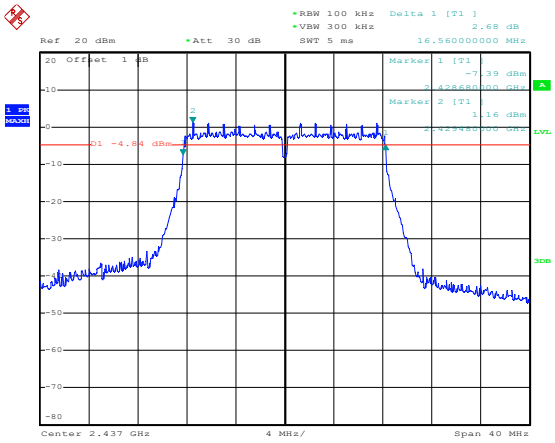
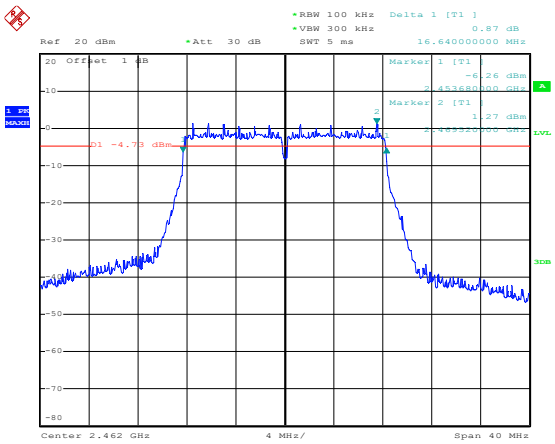
| | |
|---|---|
| 802.11g-Low |  <br>Date: 25.SEP.2025 17:37:21 |
| 802.11g-Middle |  <br>Date: 25.SEP.2025 17:36:36 |
| 802.11g-High |  <br>Date: 25.SEP.2025 17:35:56 |

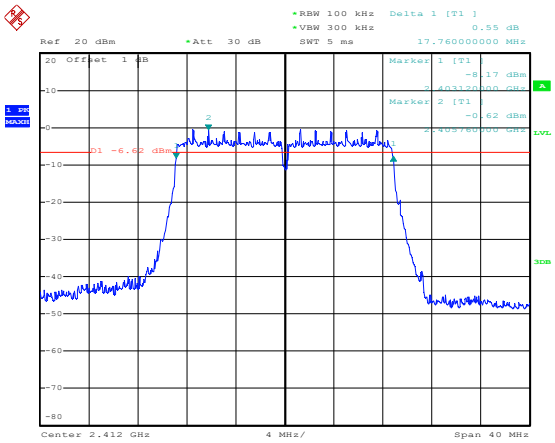
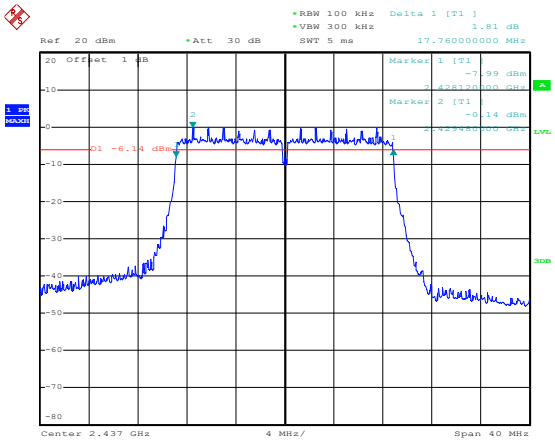
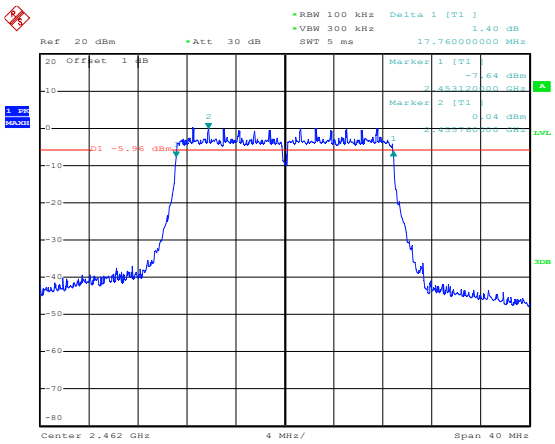
| | |
|---|---|
| 802.11n-HT20-Low |  |
| 802.11n-HT20-Middle |  |
| 802.11n-HT20-High |  |

# APPENDIX B

| DTS Bandwidth | | | |
|---|---|---|---|
| **Test Mode** | **Test Channel MHz** | **6 dB Bandwidth MHz** | **Limit kHz** |
| 802.11b_11Mbps | 2412 | 9.24 | ≥500 |
| | 2437 | 9.24 | ≥500 |
| | 2462 | 9.24 | ≥500 |
| 802.11g_54Mbps | 2412 | 16.64 | ≥500 |
| | 2437 | 16.56 | ≥500 |
| | 2462 | 16.64 | ≥500 |
| 802.11n-HT20_MCS7 | 2412 | 17.76 | ≥500 |
| | 2437 | 17.76 | ≥500 |
| | 2462 | 17.76 | ≥500 |

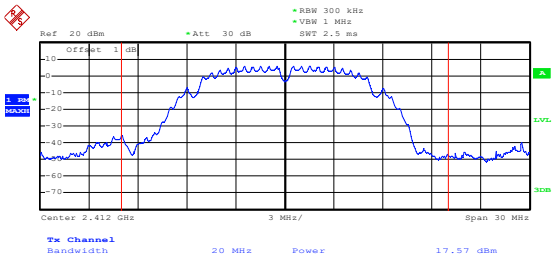
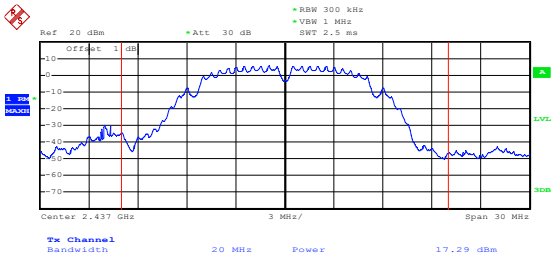
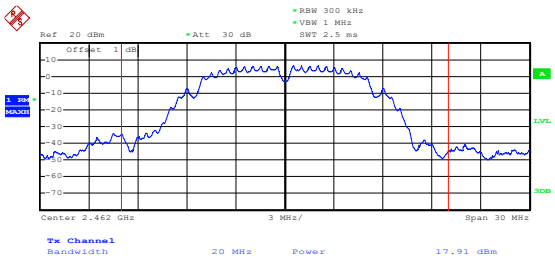
| | |
|---|---|
| 802.11b-Low |  <br>Date: 25.SEP.2025 17:42:19 |
| 802.11b-Middle |  <br>Date: 25.SEP.2025 17:41:19 |
| 802.11b-High |  <br>Date: 25.SEP.2025 17:40:22 |

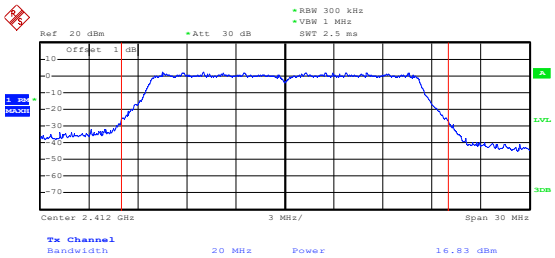
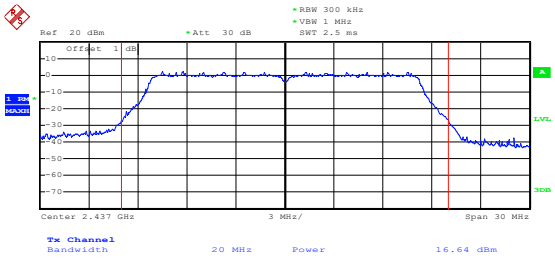
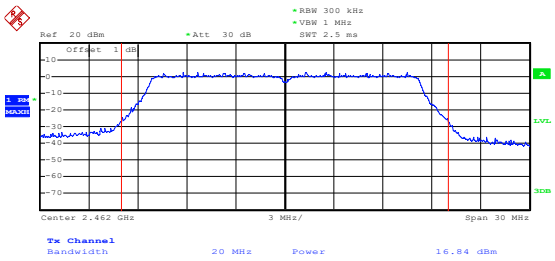
| | |
|---|---|
| 802.11g-Low |  <br>Date: 25.SEP.2025 17:43:28 |
| 802.11g-Middle |  <br>Date: 25.SEP.2025 17:44:31 |
| 802.11g-High |  <br>Date: 25.SEP.2025 17:45:40 |

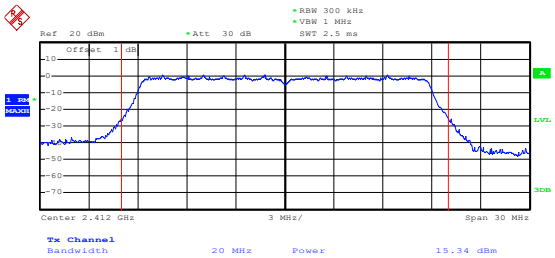
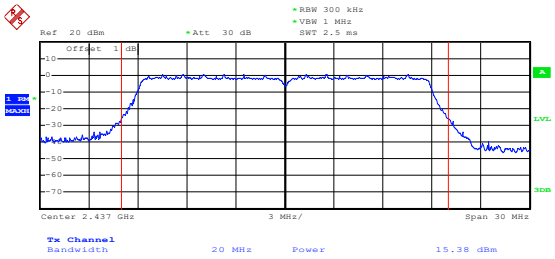
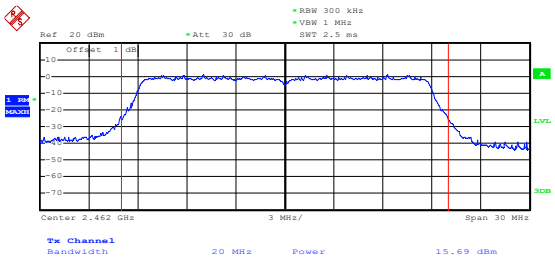
| | |
|---|---|
| 802.11n-HT20-Low |  <br>Date: 25.SEP.2025 17:48:46 |
| 802.11n-HT20-Middle |  <br>Date: 25.SEP.2025 17:47:48 |
| 802.11n-HT20-High |  <br>Date: 25.SEP.2025 17:46:43 |

# APPENDIX C

| Test Mode | Frequency MHz | Reading dBm | Limit dBm |
|---|---|---|---|
| 802.11b _ 11Mbps | 2412 | 17.57 | 30.00 |
| | 2437 | 17.29 | 30.00 |
| | 2462 | 17.91 | 30.00 |
| 802.11g_54Mbps | 2412 | 16.83 | 30.00 |
| | 2437 | 16.64 | 30.00 |
| | 2462 | 16.84 | 30.00 |
| 802.11n HT20_MCS7 | 2412 | 15.34 | 30.00 |
| | 2437 | 15.38 | 30.00 |
| | 2462 | 15.69 | 30.00 |

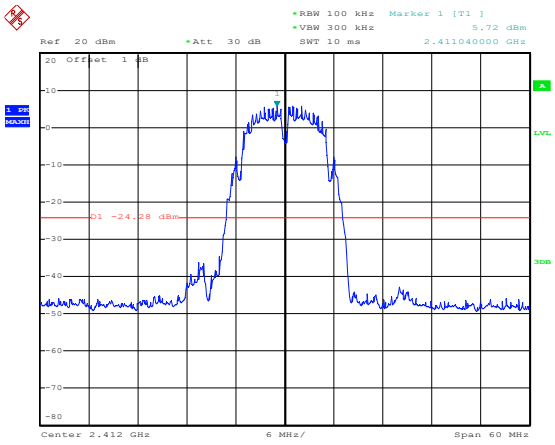
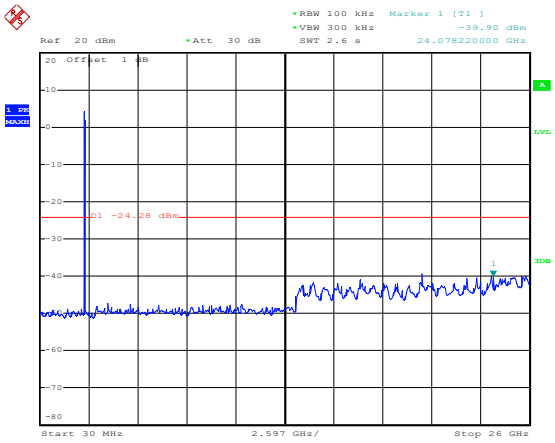
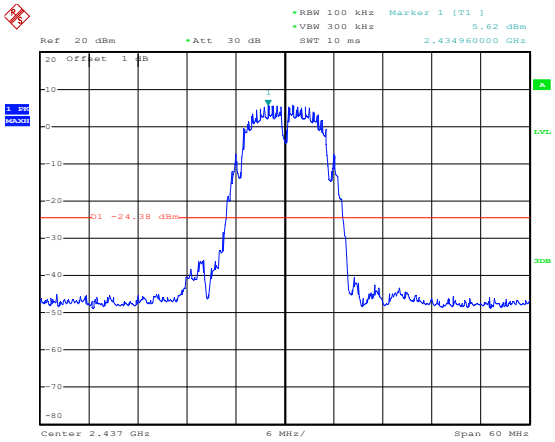
| | |
|---|---|
| 802.11b-Low |  <br>Date: 25.SEP.2025 17:21:16 |
| 802.11b-Middle |  <br>Date: 25.SEP.2025 17:23:34 |
| 802.11b-High |  <br>Date: 25.SEP.2025 17:24:33 |

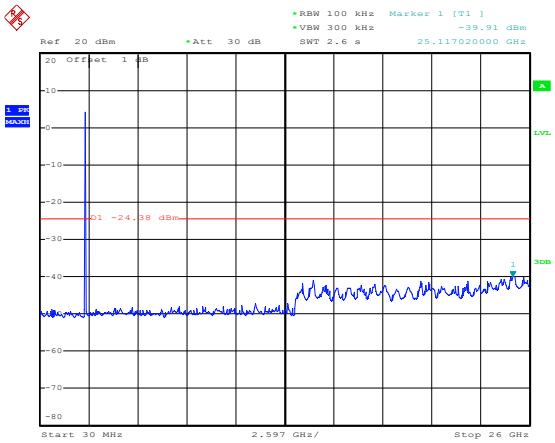
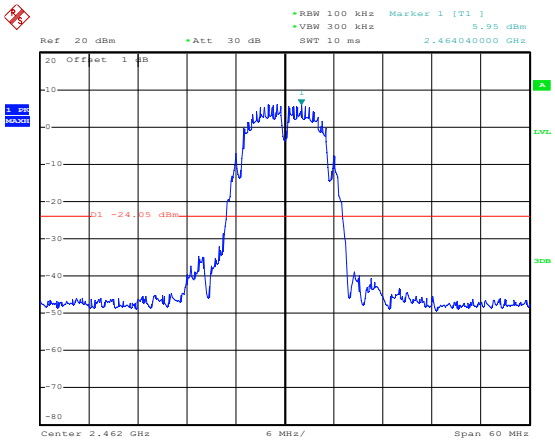
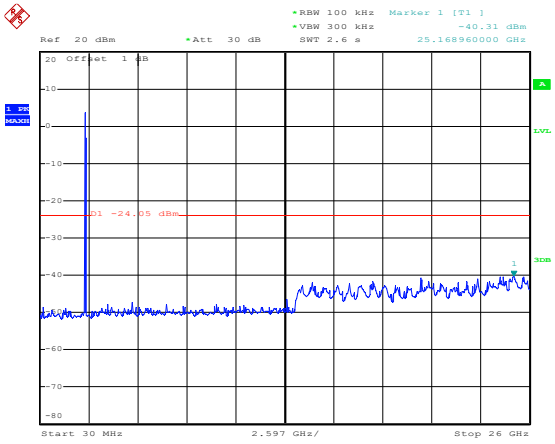
| | |
|---|---|
| 802.11g-Low |  <br>Date: 25.SEP.2025 17:27:51 |
| 802.11g-Middle |  <br>Date: 25.SEP.2025 17:27:11 |
| 802.11g-High |  <br>Date: 25.SEP.2025 17:28:36 |

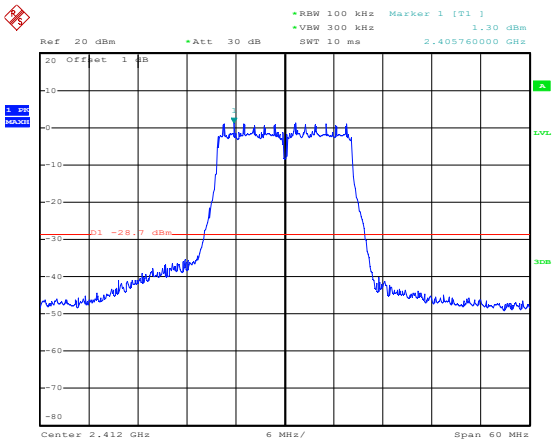
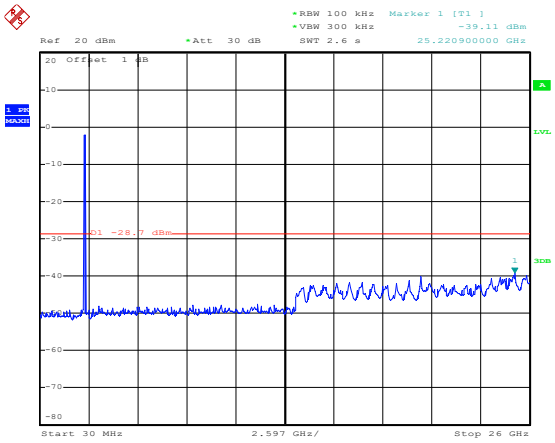
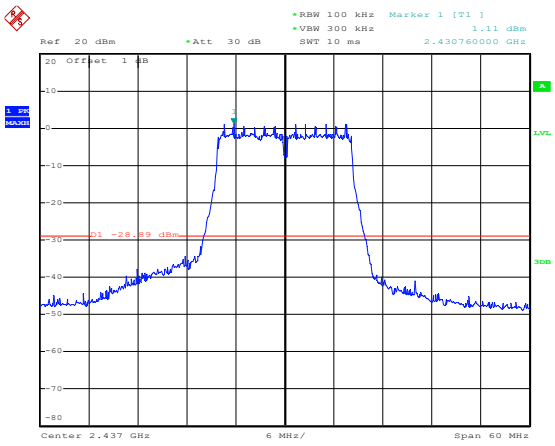
| | |
|---|---|
| 802.11n-HT20-Low |  <br>Date: 25.SEP.2025 17:33:14 |
| 802.11n-HT20-Middle |  <br>Date: 25.SEP.2025 17:32:26 |
| 802.11n-HT20-High |  <br>Date: 25.SEP.2025 17:31:47 |

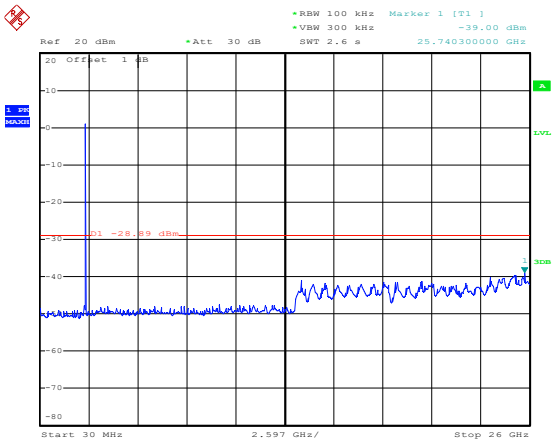
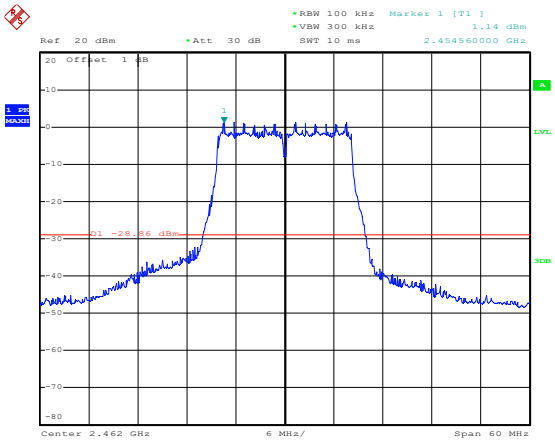
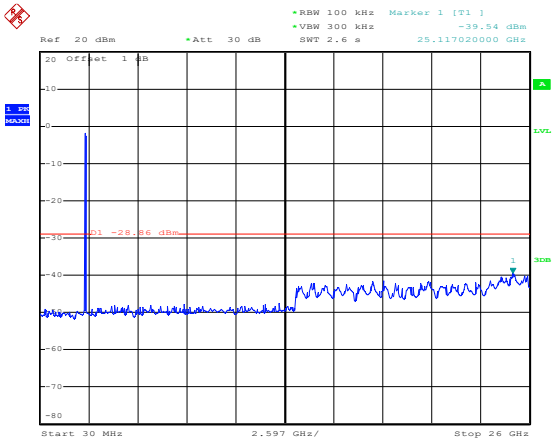
# APPENDIX D

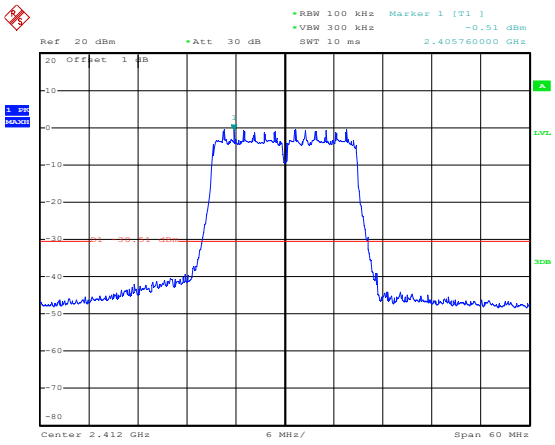
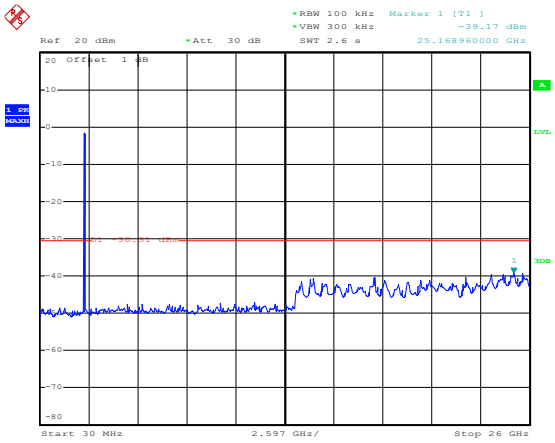
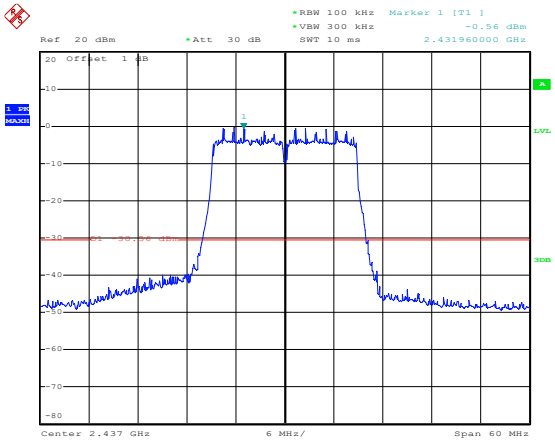
Conducted Out of Band Emissions

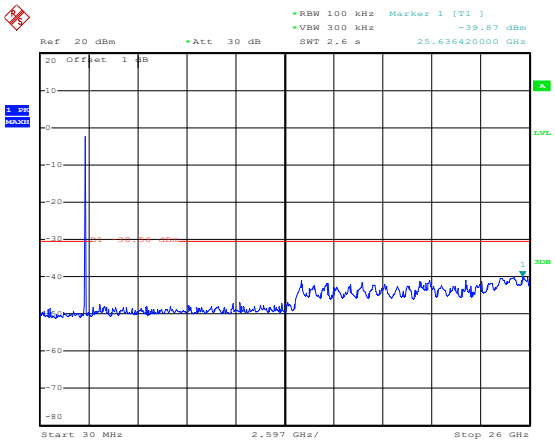
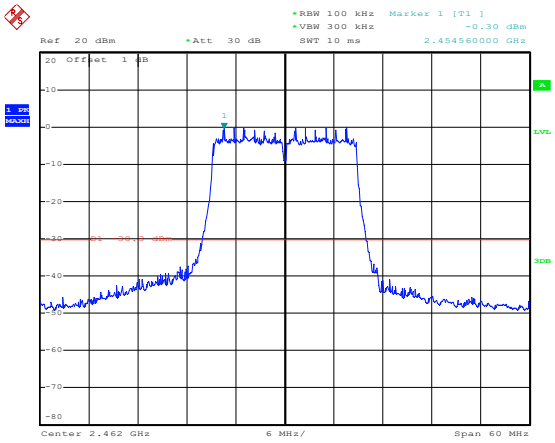
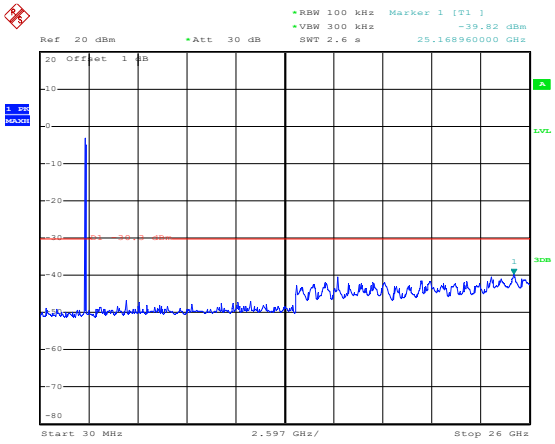
| | |
|---|---|
| 802.11b-Low |  <br>Date: 25.SEP.2025 17:56:57 |
| |  <br>Date: 25.SEP.2025 17:57:28 |
| 802.11b-Middle |  <br>Date: 25.SEP.2025 17:58:11 |

| | |
|---|---|
| |  <br>Date: 25.SEP.2025 17:58:29 |
| 802.11b-High |  <br>Date: 25.SEP.2025 17:58:57 |
| |  <br>Date: 25.SEP.2025 17:59:20 |

| | |
|---|---|
| 802.11g-Low |  <br>Date: 25.SEP.2025 17:56:10 |
| |  <br>Date: 25.SEP.2025 17:56:27 |
| 802.11g-Middle |  <br>Date: 25.SEP.2025 17:55:06 |

| | |
|---|---|
| |  <br>Date: 25.SEP.2025 17:55:36 |
| 802.11g-High |  <br>Date: 25.SEP.2025 17:54:09 |
| |  <br>Date: 25.SEP.2025 17:54:28 |

| | |
|---|---|
| 802.11n-HT20-Low |  <br>Date: 25.SEP.2025 17:50:14 |
| |  <br>Date: 25.SEP.2025 17:51:11 |
| 802.11n-HT20-Middle |  <br>Date: 25.SEP.2025 17:51:54 |

| | |
|---|---|
| |  <br>Date: 25.SEP.2025 17:52:23 |
| 802.11n-HT20-High |  <br>Date: 25.SEP.2025 17:52:52 |
| |  <br>Date: 25.SEP.2025 17:53:10 |

# APPENDIX PHOTOGRAPHS

**Please refer to “ANNEX”**

******* END OF REPORT *******