

TEST REPORT

Reference No..... : WTH24X07160440W
FCC ID..... : 2AQZU-18054
Applicant : Satellite Electronic(Zhong shan)Ltd.
Address : No.8, Chuang Ye Road, Torch Development Zone, Zhongshan, Guangdong,
China.
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : CEILING FAN REMOTE CONTROL
Model No..... : TRD029J2M
Standards : FCC Part 15.231
Date of Receipt sample : 2024-07-09
Date of Test..... : 2024-07-09 to 2024-07-18
Date of Issue : 2024-07-18
Test Report Form No. : WTX_Part 15_231W
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.

Prepared By:

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

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:



Dashan Chen

Approved by:



Jason Su

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Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00 | 2024-07-18 | Original |
| / | / | / |

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

| General Description of EUT | |
|---|----------------------------|
| Product Name: | CEILING FAN REMOTE CONTROL |
| Trade Name: | / |
| Model No.: | TRD029J2M |
| Adding Model(s): | / |
| Rated Voltage: | DC12V |
| Power Adaptor : | / |
| <i>Note: The test data is gathered from a production sample provided by the manufacturer.</i> | |

| Technical Characteristics of EUT | |
|--|----------------------------|
| Frequency Range: | 304.25MHz |
| Max. Field Strength: | 304.25MHz: 72.97dBuV/m(3m) |
| Data Rate: | / |
| Modulation: | ASK |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 0dBi |
| <i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i> | |

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.231: Periodic operation in the band 40.66-40.70MHz and above 70MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

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

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, 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 maintained 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 at continuous transmitting mode that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

| Test Mode List | | |
|-----------------------|--------------|-----------|
| Test Mode | Description | Remark |
| TM1 | Transmitting | 304.25MHz |

| Test Conditions | |
|------------------------|-----------|
| Temperature: | 22~25 °C |
| Relative Humidity: | 50~55 %. |
| 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 |
| / | / | / | / |

| Auxiliary Equipment List and Details | | | |
|---|--------------|-------|---------------|
| Description | Manufacturer | Model | Serial Number |
| / | / | / | / |

1.6 Measurement Uncertainty

| Measurement uncertainty | | |
|--------------------------------|------------|--------------------|
| Parameter | Conditions | Uncertainty |
| Occupied Bandwidth | Conducted | ±1.5% |
| Conducted Spurious Emission | Conducted | ±2.17dB |
| Transmission Time | Conducted | ±5% |
| 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 |
|--|--------------------------|-----------------|-------------|----------------|------------|------------|
| WTXE1004A 1-001 | Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100612 | 2024-02-27 | 2025-02-26 |
| <input type="checkbox"/> Chamber A: Below 1GHz | | | | | | |
| WTXE1005A 1003 | Spectrum Analyzer | Rohde & Schwarz | FSP30 | 836079/03 5 | 2024-02-24 | 2025-02-23 |
| WTXE1001A 1001 | EMI Test Receiver | Rohde & Schwarz | ESPI | 101611 | 2024-03-19 | 2025-03-18 |
| WTXE1007A 1001 | Amplifier | HP | 8447F | 2805A034 75 | 2024-02-24 | 2025-02-23 |
| WTXE1010A 1007 | Loop Antenna | Schwarz beck | FMZB 1516 | 9773 | 2024-02-26 | 2025-02-25 |
| WTXE1010A 1006 | Broadband Antenna | Schwarz beck | VULB9163 | 9163-333 | 2024-02-24 | 2025-02-23 |
| <input type="checkbox"/> Chamber A: Above 1GHz | | | | | | |
| WTXE1005A 1003 | Spectrum Analyzer | Rohde & Schwarz | FSP30 | 836079/03 5 | 2024-02-24 | 2025-02-23 |
| WTXE1001A 1001 | EMI Test Receiver | Rohde & Schwarz | ESPI | 101611 | 2024-03-19 | 2025-03-18 |
| WTXE1065A 1001 | Amplifier | C&D | PAP-1G18 | 2002 | 2024-02-27 | 2025-02-26 |
| WTXE1010A 1005 | Horn Antenna | ETS | 3117 | 00086197 | 2024-02-26 | 2025-02-25 |
| WTXE1010A 1010 | DRG Horn Antenna | A.H. SYSTEMS | SAS-574 | 571 | 2024-03-17 | 2025-03-16 |
| WTXE1003A 1001 | Pre-amplifier | Schwarzbeck | BBV 9721 | 9721-031 | 2024-02-29 | 2025-02-28 |
| <input type="checkbox"/> 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 | 2024-02-24 | 2025-02-23 |
| WTXE1001A 1002 | EMI Test Receiver | Rohde & Schwarz | ESPI | 101391 | 2024-02-24 | 2025-02-23 |
| <input checked="" type="checkbox"/> Chamber C:Below 1GHz | | | | | | |
| WTXE1093A 1001 | EMI Test Receiver | Rohde & Schwarz | ESIB 26 | 100401 | 2024-02-27 | 2025-02-26 |
| WTXE1010A 1013-1 | Trilog Broadband | Schwarz beck | VULB 9168 | 1194 | 2024-04-18 | 2027-04-17 |

| | | | | | | |
|---|-------------------|-----------------|-------------|-----------------|------------|------------|
| | Antenna | | | | | |
| WTXE1007A 1002 | Amplifier | HP | 8447F | 2944A038 69 | 2024-02-24 | 2025-02-23 |
| WTXE1010A 1007 | Loop Antenna | Schwarz beck | FMZB 1516 | 9773 | 2024-02-26 | 2025-02-25 |
| <input checked="" type="checkbox"/> Chamber C: Above 1GHz | | | | | | |
| WTXE1093A 1001 | EMI Test Receiver | Rohde & Schwarz | ESIB 26 | 100401 | 2024-02-27 | 2025-02-26 |
| WTXE1103A 1005 | Horn Antenna | POAM | RTF-118A | 1820 | 2023-03-10 | 2026-03-09 |
| WTXE1103A 1006 | Amplifier | Tonscend | TAP01018050 | AP22E806 235 | 2024-02-27 | 2025-02-26 |
| WTXE1010A 1010 | DRG Horn Antenna | A.H. SYSTEMS | SAS-574 | 571 | 2024-03-17 | 2025-03-16 |
| WTXE1003A 1001 | Pre-amplifier | Schwarzbeck | BBV 9721 | 9721-031 | 2024-02-29 | 2025-02-28 |
| <input type="checkbox"/> Conducted Room 1# | | | | | | |
| WTXE1104A 1029 | EMI Test Receiver | Rohde & Schwarz | ESCI | 100525 | 2023-12-12 | 2024-12-11 |
| WTXE1002A 1001 | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100911 | 2024-02-24 | 2025-02-23 |
| WTXE1003A 1001 | AC LISN | Schwarz beck | NSLK8126 | 8126-279 | 2024-02-24 | 2025-02-23 |
| <input checked="" type="checkbox"/> Conducted Room 2# | | | | | | |
| WTXE1001A 1004 | EMI Test Receiver | Rohde & Schwarz | ESPI | 101259 | 2024-02-24 | 2025-02-23 |
| WTXE1003A 1003 | LISN | Rohde & Schwarz | ENV 216 | 100097 | 2024-02-24 | 2025-02-23 |

| Software List | | | |
|---|--------------|--------|---------|
| Description | Manufacturer | Model | Version |
| EMI Test Software (Radiated Emission)* | Farad | EZ-EMC | RA-03A1 |
| EMI Test Software (Conducted Emission Room 1#)* | Farad | EZ-EMC | RA-03A1 |
| EMI Test Software (Conducted Emission Room 2#)* | SKET | EMC-I | V2.0 |

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

2. SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test Item | Result |
|------------|------------------------------|-----------|
| §15.203 | Antenna Requirement | Compliant |
| §15.205 | Restricted Band of Operation | Compliant |
| §15.209 | Radiated Spurious Emissions | Compliant |
| §15.231(a) | Deactivation Testing | Compliant |
| §15.231(b) | Radiated Emissions | Compliant |
| §15.231(c) | 20dB Bandwidth Testing | Compliant |
| §15.207(a) | Conducted Emission | N/A |

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 Test Result

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

4. Radiated Emissions

4.1 Standard Applicable

According to §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

| Fundamental Frequency (MHz) | Field Strength of Fundamental (microvolts/meter) | Field Strength of Spurious Emissions (microvolts/meter) |
|-----------------------------|--|---|
| 40.66 - 40.70 | 2,250 | 225 |
| 70 - 130 | 1,250 | 125 |
| 130 - 174 | 1,250 to 3,750 ** | 125 to 375 ** |
| 174 - 260 | 3,750 | 375 |
| 260 - 470 | 3,750 to 12,500 ** | 375 to 1,250 ** |
| Above 470 | 12,500 | 1,250 |

** linear interpolations

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

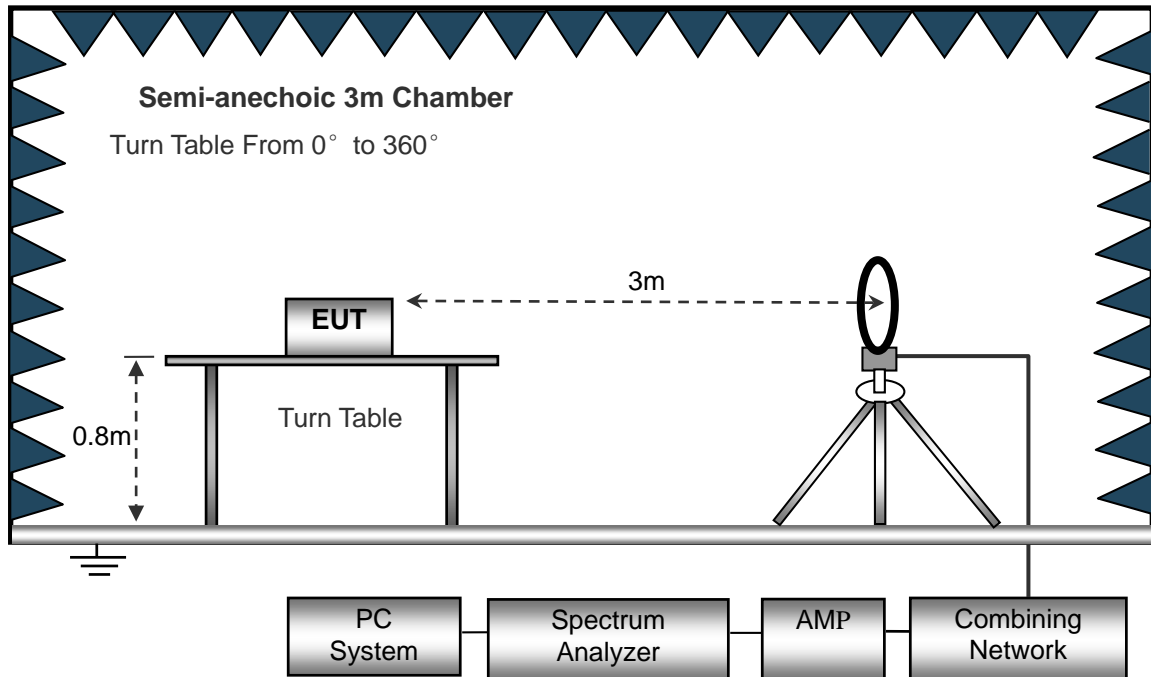
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

Compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

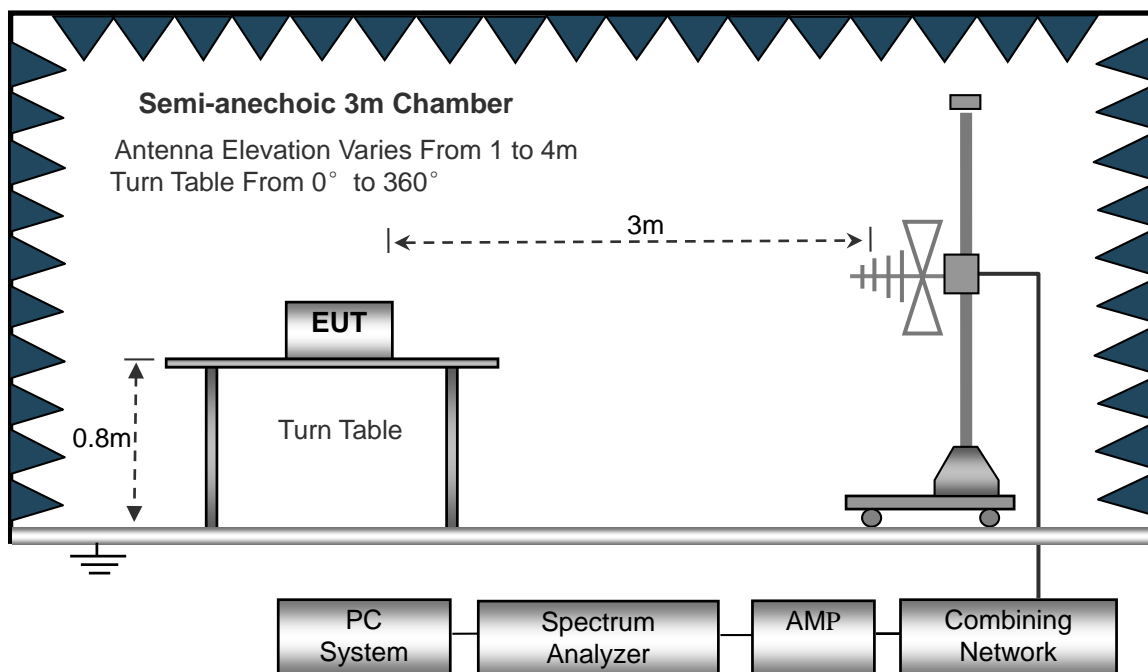
4.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.231(b) and FCC Part 15.209 Limit.

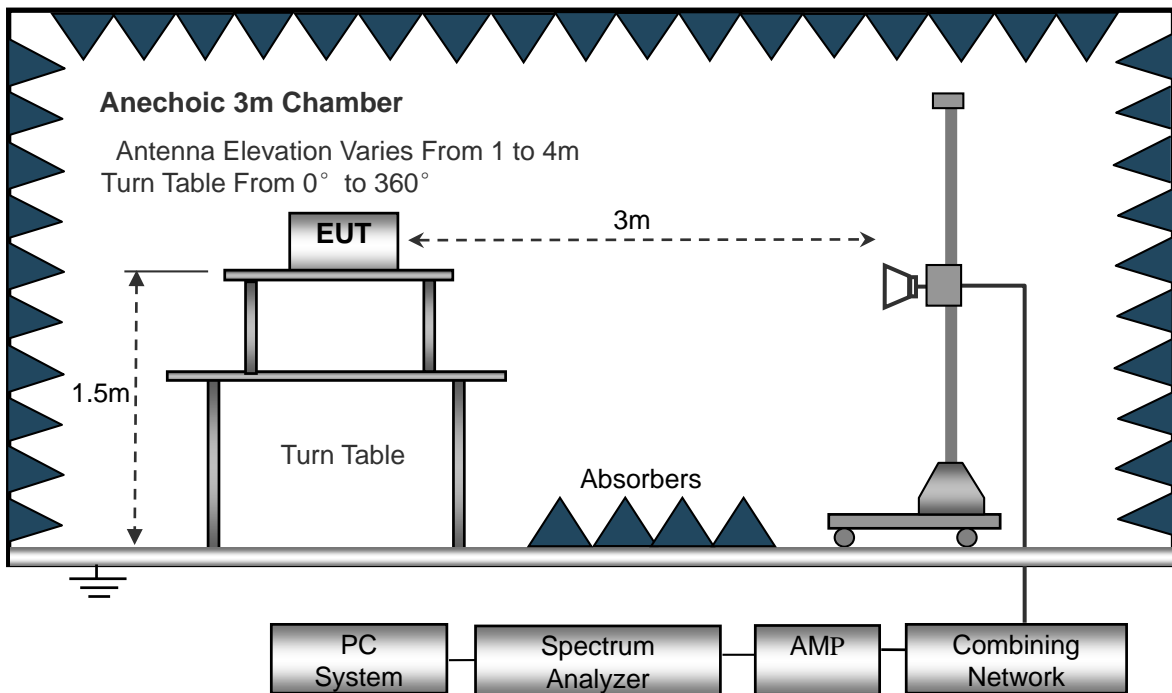
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1GHz.



4.3 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:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Loss} + \text{Cab. Loss} - \text{Ampl. Gain}$$

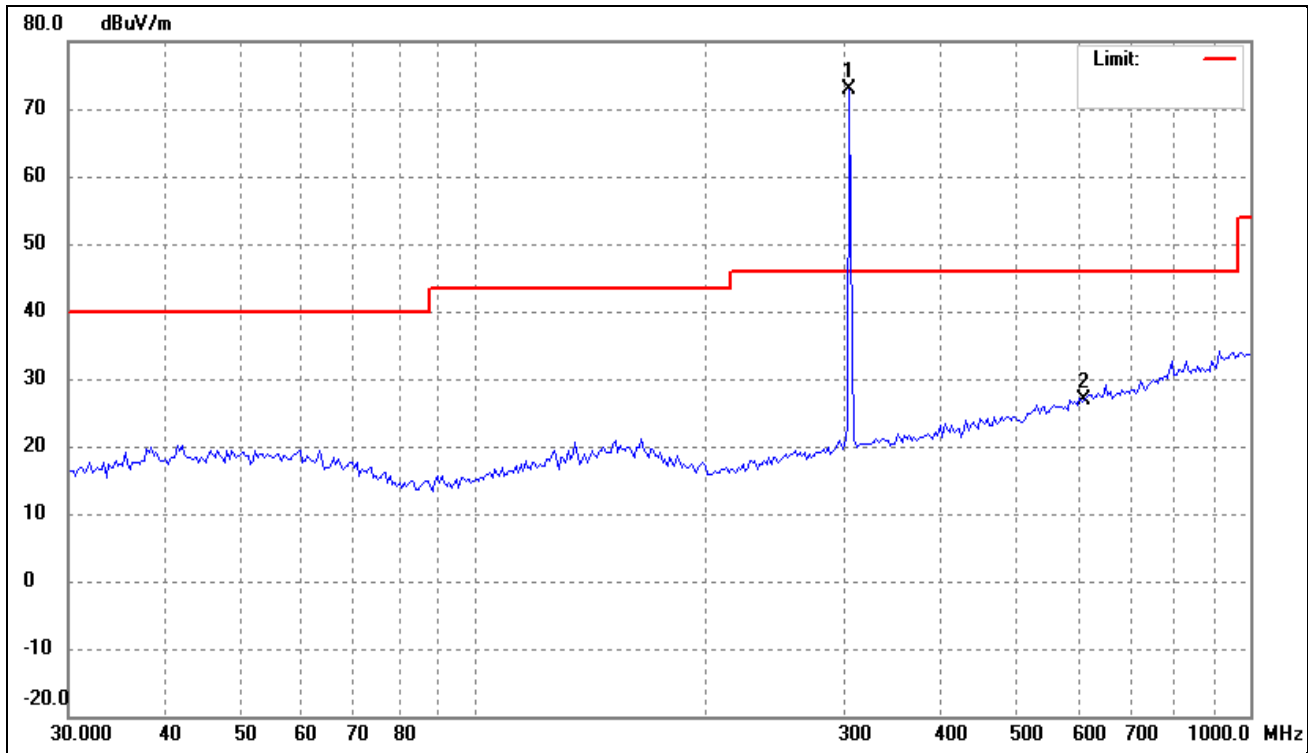
The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

4.4 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

| | | | |
|-----------|-----|-----------|------------|
| Test Mode | TM1 | Polarity: | Horizontal |
|-----------|-----|-----------|------------|

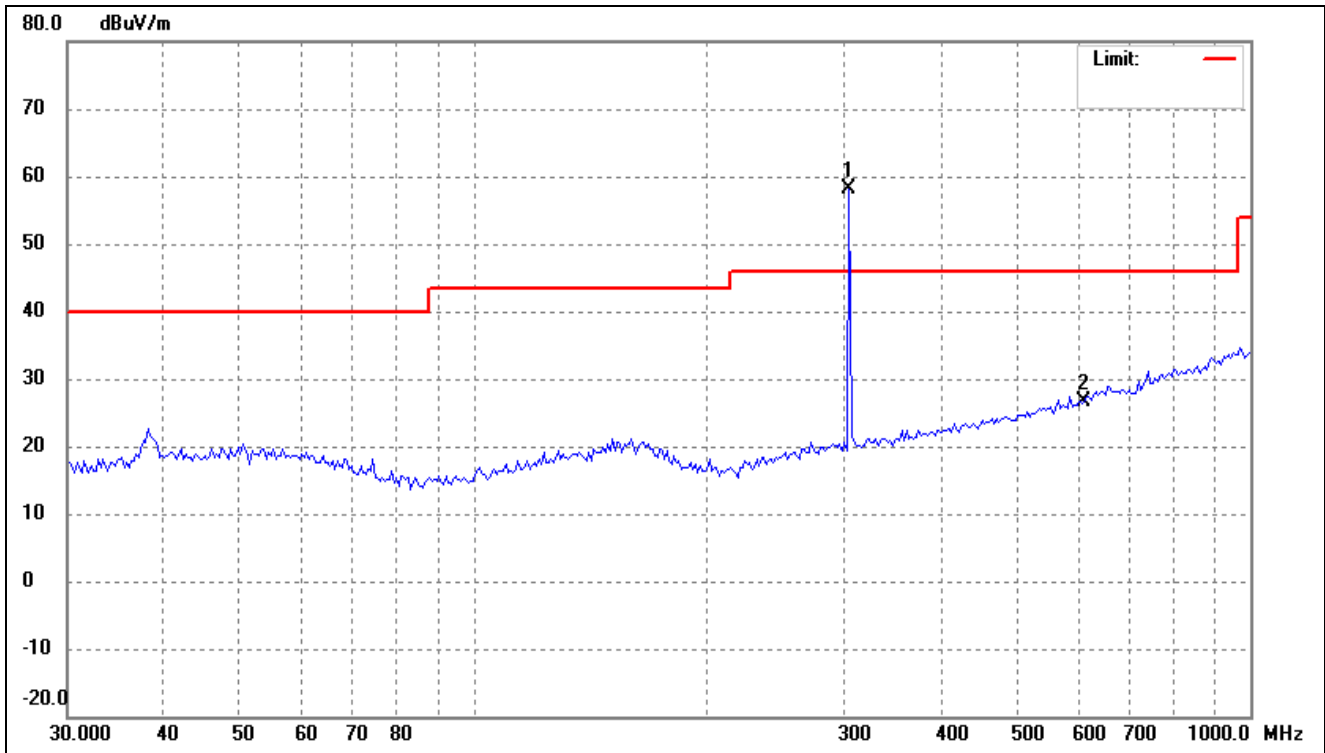


| No. | Frequency | Reading | Corr. | Duty cycle | Result | Limit | Margin | Deg. | Height | Remark |
|-----|-----------|---------|-------------|-------------|--------|--------|--------|------|--------|--------|
| | MHz | dBuV/m | Factor (dB) | Factor (dB) | dBuV/m | dBuV/m | (dB) | (°) | (cm) | |
| 1 | 304.9548 | 80.73 | -7.76 | N/A | 72.97 | 94.95 | -21.98 | - | - | peak |
| / | / | / | / | -4.30 | 68.67 | 74.95 | -6.28 | - | - | Ave |
| 2 | 608.5000 | 29.01 | -2.09 | N/A | 26.92 | 74.00 | -47.08 | - | - | peak |
| / | / | / | / | -4.30 | 22.62 | 54.00 | -31.38 | - | - | Ave |

Above 1GHz

| No. | Frequency | Reading | Corr. | Duty cycle | Result | Limit | Margin | Deg. | Height | Remark |
|-----|-----------|---------|-------------|-------------|--------|--------|--------|------|--------|--------|
| | MHz | dBuV/m | Factor (dB) | Factor (dB) | dBuV/m | dBuV/m | dB | (°) | (cm) | |
| 1 | 2125.585 | 61.04 | -20.08 | N/A | 40.96 | 74.95 | -33.99 | - | - | Peak |
| / | / | / | / | -4.30 | 36.66 | 54.95 | -18.29 | - | - | Ave |
| 2 | 2732.990 | 64.30 | -18.72 | N/A | 45.58 | 74.00 | -28.42 | - | - | Peak |
| / | / | / | / | -4.30 | 41.28 | 54.00 | -12.72 | - | - | Ave |
| 3 | 3043.832 | 65.10 | -17.81 | N/A | 47.29 | 74.95 | -27.66 | - | - | Peak |
| / | / | / | / | -4.30 | 42.99 | 54.95 | -11.96 | - | - | Ave |

| | | | |
|-----------|-----|-----------|----------|
| Test Mode | TM1 | Polarity: | Vertical |
|-----------|-----|-----------|----------|



| No. | Frequency MHz | Reading dBuV/m | Corr. Factor (dB) | Dutycycle Factor (dB) | Result dBuV/m | Limit dBuV/m | Margin (dB) | Deg. (°) | Height (cm) | Remark |
|-----|------------------|-------------------|-------------------------|-----------------------------|------------------|-----------------|----------------|---------------|----------------|--------|
| 1 | 304.9548 | 65.94 | -7.76 | N/A | 58.18 | 94.95 | -36.77 | - | - | peak |
| / | / | / | / | -4.30 | 53.88 | 74.95 | -21.07 | - | - | Ave |
| 2 | 608.5000 | 28.68 | -2.09 | N/A | 26.59 | 74.00 | -47.41 | - | - | peak |
| / | / | / | / | -4.30 | 22.29 | 54.00 | -31.71 | - | - | Ave |

Above 1GHz

| No. | Frequency | Reading | Corr. | Dutycycle | Result | Limit | Margin | Deg. | Height | Remark |
|-----|-----------|---------|-------------|-------------|--------|--------|--------|------|--------|--------|
| | MHz | dBuV/m | Factor (dB) | Factor (dB) | dBuV/m | dBuV/m | dB | (°) | (cm) | |
| 1 | 1521.250 | 55.42 | -22.77 | N/A | 32.65 | 74.00 | -41.35 | - | - | Peak |
| / | / | / | / | -4.30 | 28.35 | 54.00 | -25.65 | - | - | Ave |
| 2 | 2129.750 | 55.64 | -20.07 | N/A | 35.57 | 74.95 | -39.38 | - | - | Peak |
| / | / | / | / | -4.30 | 31.27 | 54.95 | -23.68 | - | - | Ave |
| 3 | 3043.832 | 59.22 | -17.81 | N/A | 41.41 | 74.95 | -33.54 | - | - | Peak |
| / | / | / | / | -4.30 | 37.11 | 54.95 | -17.84 | - | - | Ave |

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.

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

5. 20dB Bandwidth

5.1 Standard Applicable

According to FCC Part 15.231(c), the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

5.1 Test Procedure

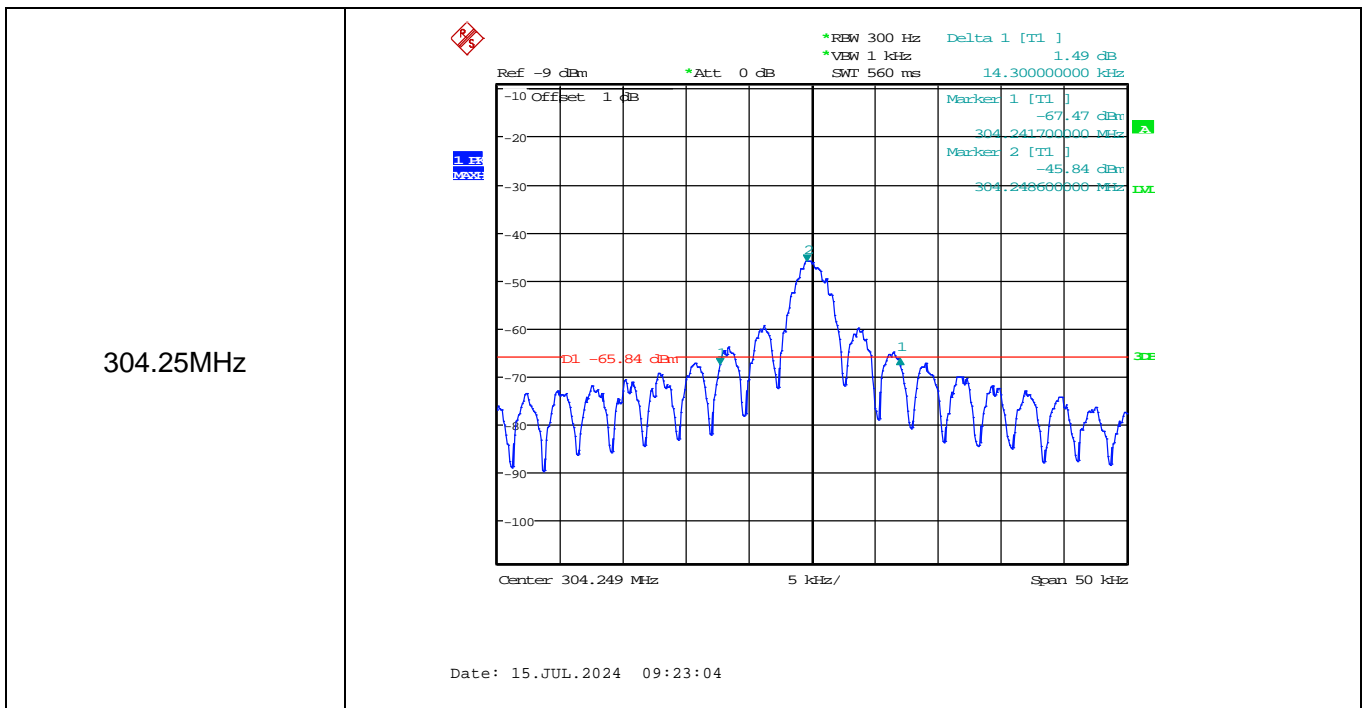
With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna, which was connected to the spectrum analyzer with the START, and STOP frequencies set to the EUT's operation band.

5.2 Summary of Test Results/Plots

| Test Frequency MHz | 20dB Bandwidth kHz | Limit kHz | Result |
|-----------------------|-----------------------|--------------|--------|
| 304.25 | 14.30 | 760.625 | Pass |

Limit = Fundamental Frequency * 0.25% = 304.25MHz * 0.25% = 760.625kHz

Please refer to the attached plots.



6. Transmission Time

6.1 Standard Applicable

According to FCC Part 15.231(a), the transmitter shall be complied the following requirements:

- 1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

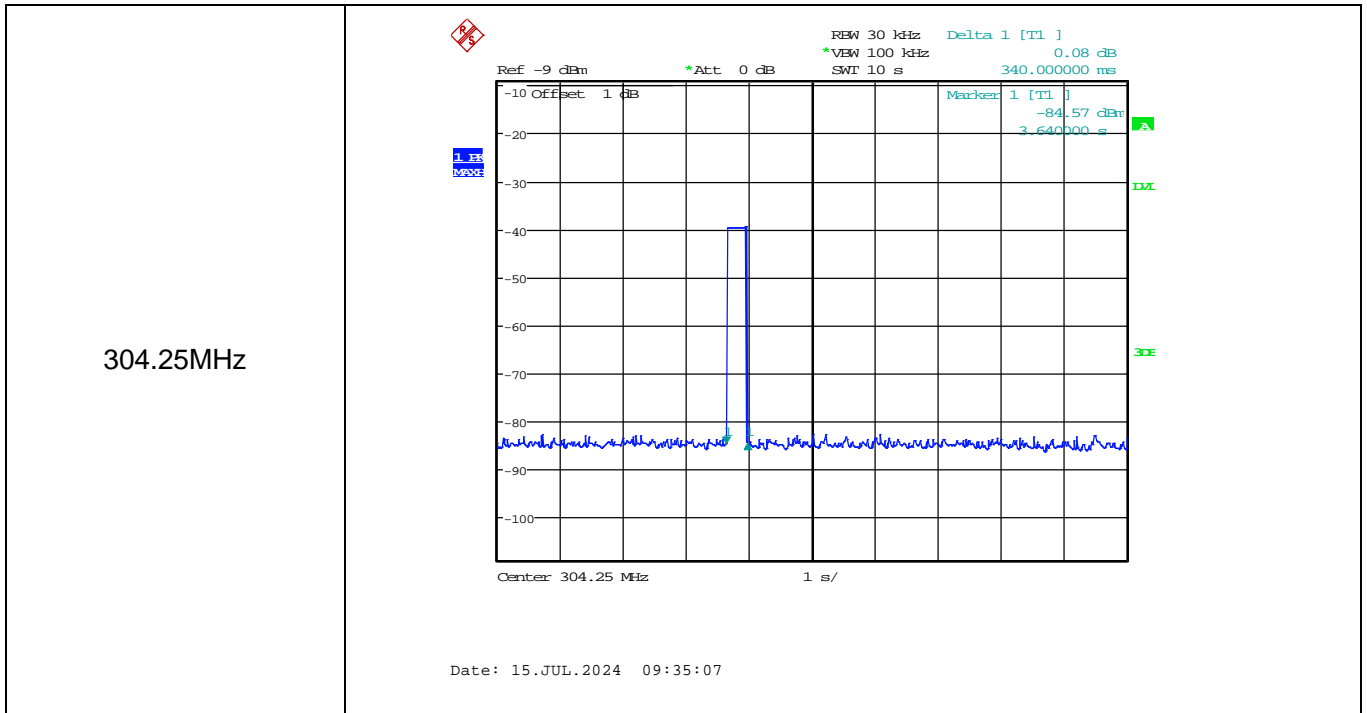
6.2 Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 304.25MHz, than set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

6.3 Summary of Test Results/Plots

| Transmission Type | Test Frequency(MHz) | Transmission Time(s) | Limit(s) | Result |
|-------------------|---------------------|----------------------|----------|--------|
| Manually | 304.25 | 0.34 | 5 | Pass |

Please refer to the attached plots.



7. Duty Cycle

7.1 Standard Applicable

According to FCC Part 15.231 (b)(2) and 15.35 (c), for pulse operation transmitter, the averaging pulsed emissions are calculated by peak value of measured emission plus duty cycle factor.

7.2 Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 304.25MHz, than set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

7.3 Summary of Test Results/Plots

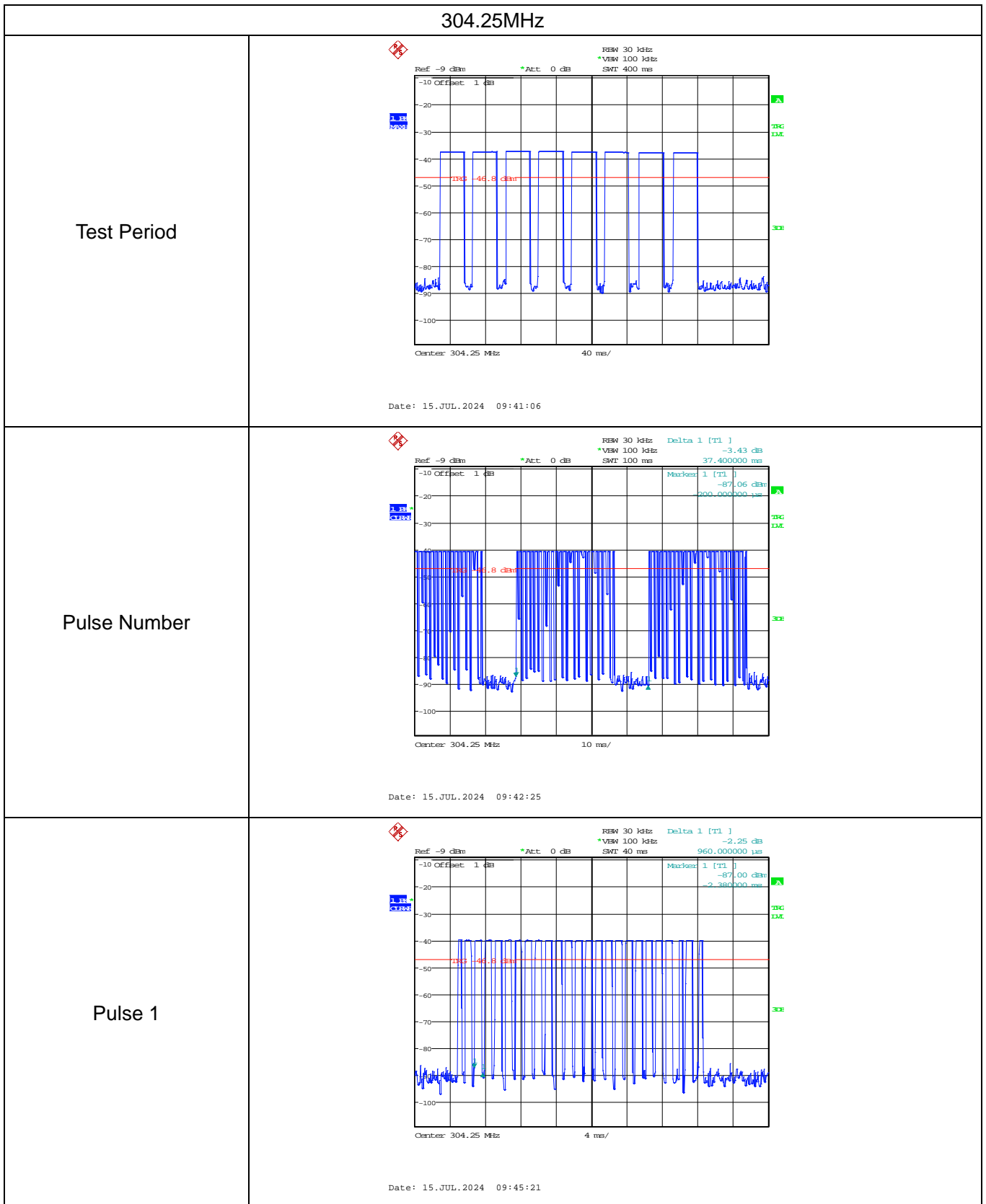
304.25MHz:

| Type of Pulse | Width of Pulse (ms) | Quantity of Pulse | Transmission Time (ms) | Total Time (T _{on}) (ms) |
|------------------|---------------------|-------------------|------------------------|------------------------------------|
| Pulse 1 (Wide) | 0.96 | 22 | 21.12 | 22.80 |
| Pulse 2 (Narrow) | 0.56 | 3 | 1.68 | |

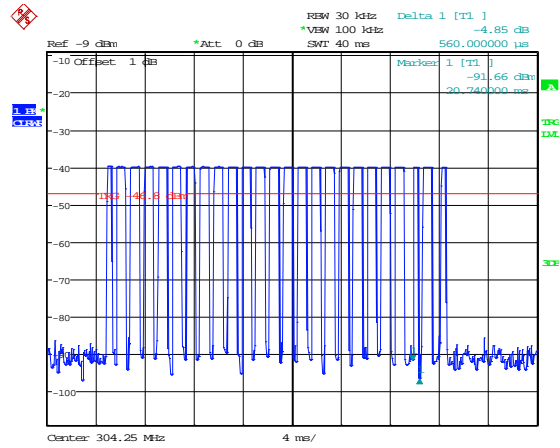
| Test Period (T _p) | Total Time (T _{on}) | Duty Cycle | Duty Cycle Factor |
|-------------------------------|-------------------------------|------------|-------------------|
| ms | ms | % | dB |
| 37.40 | 22.80 | 60.96 | -4.30 |

Remark: Duty Cycle Factor= $20 \cdot \log(\text{Duty Cycle})$

Please refer to the attached test plots:



Pulse 2



Date: 15.JUL.2024 09:45:56

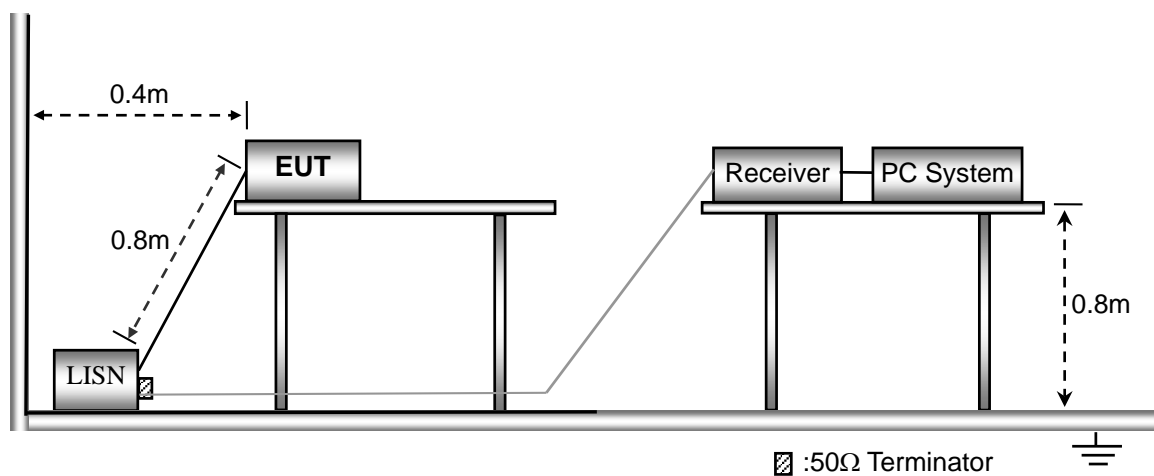
8. Conducted Emissions

8.1 Test Procedure

The setup of EUT is according with per ANSI C63.10:2013 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.

8.2 Basic Test Setup Block Diagram



8.3 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 |

8.4 Summary of Test Results/Plots

Not applicable

APPENDIX PHOTOGRAPHS

Please refer to "ANNEX"

**** END OF REPORT ****