

# TEST REPORT

**Application No.:** SZCR2603001051ET  
**Applicant:** Prime Time Toys Ltd.  
**Address of Applicant:** Suite 5, 2/F Kwong Sang Hong Centre, 151 – 153 Hoi Bun Road, Kwun Tong, Hong Kong  
**Equipment Under Test (EUT):**  
**EUT Name:** RC Shark  
**Model No.:** 8145(091-11-2784)  
**FCC ID:** SML-8145RC  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.249  
**Date of Receipt:** 2026-03-18  
**Date of Test:** 2026-03-26 to 2026-03-27  
**Date of Issue:** 2026-03-30

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

*Keny Xu*

Keny Xu

EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
 Shenzhen Branch EMC Laboratory

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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300105101

Page: 2 of 35

| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2026-03-31 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                            |  |  |
|--------------------------|--|----------------------------|--|--|
| Authorized for issue by: |  |                            |  |  |
|                          |  | Gebin Sun                  |  |  |
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|                          |  | Eric Fu                    |  |  |
|                          |  | Eric Fu/Reviewer           |  |  |



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## 2 Test Summary

| Radio Spectrum Technical Requirement |                                  |        |                                  |        |
|--------------------------------------|----------------------------------|--------|----------------------------------|--------|
| Item                                 | Standard                         | Method | Requirement                      | Result |
| Antenna Requirement                  | 47 CFR Part 15, Subpart C 15.249 | N/A    | 47 CFR Part 15, Subpart C 15.203 | Pass   |

| Radio Spectrum Matter Part                           |                                  |                                    |                                                       |        |
|------------------------------------------------------|----------------------------------|------------------------------------|-------------------------------------------------------|--------|
| Item                                                 | Standard                         | Method                             | Requirement                                           | Result |
| Field Strength of the Fundamental Signal (15.249(a)) | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2020) Section 6.5&6.6 | 47 CFR Part 15, Subpart C 15.249(a)                   | Pass   |
| Restricted Band Around Fundamental Frequency         |                                  | ANSI C63.10 (2020) Section 6.10.5  | 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209 | Pass   |
| Radiated Emissions Below 1GHz                        |                                  | ANSI C63.10 (2020) Section 6.4&6.5 | 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)     | Pass   |
| Radiated Emissions Above 1GHz                        |                                  | ANSI C63.10 (2020) Section 6.6     | 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)     | Pass   |
| 20dB Bandwidth                                       |                                  | ANSI C63.10 (2020) Section 6.9     | 47 CFR Part 15, Subpart C 15.215                      | Pass   |



### 3 Contents

|                                                                | Page |
|----------------------------------------------------------------|------|
| 1 Cover Page .....                                             | 1    |
| 2 Test Summary .....                                           | 3    |
| 3 Contents .....                                               | 4    |
| 4 General Information .....                                    | 6    |
| 4.1 Details of E.U.T. ....                                     | 6    |
| 4.2 Description of Support Units .....                         | 6    |
| 4.3 Measurement Uncertainty .....                              | 6    |
| 4.4 Test Location .....                                        | 7    |
| 4.5 Test Facility .....                                        | 7    |
| 4.6 Deviation from Standards .....                             | 7    |
| 4.7 Abnormalities from Standard Conditions .....               | 7    |
| 5 Equipment List .....                                         | 8    |
| 6 Radio Spectrum Technical Requirement .....                   | 11   |
| 6.1 Antenna Requirement .....                                  | 11   |
| 6.1.1 Test Requirement: .....                                  | 11   |
| 6.1.2 Conclusion .....                                         | 11   |
| 7 Radio Spectrum Matter Test Results .....                     | 12   |
| 7.1 Field Strength of the Fundamental Signal (15.249(a)) ..... | 12   |
| 7.1.1 E.U.T. Operation .....                                   | 12   |
| 7.1.2 Test Mode Description .....                              | 12   |
| 7.1.3 Test Setup Diagram .....                                 | 13   |
| 7.1.4 Measurement Procedure and Data .....                     | 13   |
| 7.2 Restricted Band Around Fundamental Frequency .....         | 16   |
| 7.2.1 E.U.T. Operation .....                                   | 16   |
| 7.2.2 Test Mode Description .....                              | 16   |
| 7.2.3 Test Setup Diagram .....                                 | 17   |
| 7.2.4 Measurement Procedure and Data .....                     | 17   |
| 7.3 Radiated Emissions Below 1GHz .....                        | 20   |
| 7.3.1 E.U.T. Operation .....                                   | 20   |
| 7.3.2 Test Mode Description .....                              | 20   |
| 7.3.3 Test Setup Diagram .....                                 | 21   |
| 7.3.4 Measurement Procedure and Data .....                     | 21   |
| 7.4 Radiated Emissions Above 1GHz .....                        | 24   |
| 7.4.1 E.U.T. Operation .....                                   | 24   |
| 7.4.2 Test Mode Description .....                              | 24   |
| 7.4.3 Test Setup Diagram .....                                 | 25   |
| 7.4.4 Measurement Procedure and Data .....                     | 26   |
| 7.5 20dB Bandwidth .....                                       | 31   |
| 7.5.1 E.U.T. Operation .....                                   | 31   |



## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300105101

Page: 5 of 35

|          |                                                      |           |
|----------|------------------------------------------------------|-----------|
| 7.5.2    | Test Mode Description .....                          | 31        |
| 7.5.3    | Test Setup Diagram .....                             | 31        |
| 7.5.4    | Measurement Procedure and Data.....                  | 31        |
| <b>8</b> | <b>Test Setup Photo .....</b>                        | <b>35</b> |
| <b>9</b> | <b>EUT Constructional Details (EUT Photos) .....</b> | <b>35</b> |



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## 4 General Information

### 4.1 Details of E.U.T.

|                                     |                                                  |
|-------------------------------------|--------------------------------------------------|
| Power supply:                       | 3V DC (1.5V x 2 "AAA" Size Batteries) for remote |
| Cable Loss (for RF conducted test): | 0.7dB                                            |
| Operation Frequency:                | 2405 MHz - 2475 MHz                              |
| Modulation Type:                    | GFSK                                             |
| Number of Channels:                 | 71                                               |
| Channel Spacing:                    | 1MHz                                             |
| Antenna Type:                       | Wire Antenna                                     |
| Antenna Gain:                       | 2dBi                                             |

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| --          | --           | --        | --         |

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

| Test Item                                            | Measurement Uncertainty                                           |
|------------------------------------------------------|-------------------------------------------------------------------|
| Field Strength of the Fundamental Signal (15.249(a)) | $\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)  |
| Restricted Band Around Fundamental Frequency         | $\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)  |
| Radiated Emissions Below 1GHz                        | $\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m             |
| Radiated Emissions Above 1GHz                        | $\pm 4.6\text{dB}$ (1GHz-18GHz); $\pm 4.8\text{dB}$ (18MHz-40GHz) |
| 20dB Bandwidth                                       | $\pm 0.3\%$                                                       |

Remark:

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR/ETSI}}$  (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

## 4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

## 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### • FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

| Field Strength of the Fundamental Signal (15.249(a)) |                 |                 |               |            |              |
|------------------------------------------------------|-----------------|-----------------|---------------|------------|--------------|
| Equipment                                            | Manufacturer    | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| Signal & Spectrum Analyzer                           | Rohde & Schwarz | FSV             | SZ-WRG-M-048  | 2025-12-16 | 2026-12-15   |
| Low Noise Amplifier 30M-8GHz                         | Tonscend        | TAP30M8G30      | SZ-WRG-M-050  | 2025-12-16 | 2026-12-15   |
| Double Ridge Horn Antenna 1GHz-18GHz                 | SCHWARZBECK     | BBHA 9120 D     | SZ-WRG-M-055  | 2025-12-13 | 2026-12-12   |
| RSE Test Software                                    | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Chamber                                              | CRTSGSSAC966    | N/A             | SZ-WRG-C-063  | 2025-01-06 | 2028-01-05   |
| Humidity and Temperature Indicator                   | deli            | 8838            | SEM002-46     | 2025-07-23 | 2026-07-22   |

| Restricted Band Around Fundamental Frequency |                 |                 |               |            |              |
|----------------------------------------------|-----------------|-----------------|---------------|------------|--------------|
| Equipment                                    | Manufacturer    | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| Signal & Spectrum Analyzer                   | Rohde & Schwarz | FSV             | SZ-WRG-M-048  | 2025-12-16 | 2026-12-15   |
| Low Noise Amplifier 30M-8GHz                 | Tonscend        | TAP30M8G30      | SZ-WRG-M-050  | 2025-12-16 | 2026-12-15   |
| Double Ridge Horn Antenna 1GHz-18GHz         | SCHWARZBECK     | BBHA 9120 D     | SZ-WRG-M-055  | 2025-12-13 | 2026-12-12   |
| RSE Test Software                            | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Chamber                                      | CRTSGSSAC966    | N/A             | SZ-WRG-C-063  | 2025-01-06 | 2028-01-05   |
| Humidity and Temperature Indicator           | deli            | 8838            | SEM002-46     | 2025-07-23 | 2026-07-22   |

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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300105101

Page: 9 of 35

| Radiated Emissions Below 1GHz |                      |                 |               |            |              |
|-------------------------------|----------------------|-----------------|---------------|------------|--------------|
| Equipment                     | Manufacturer         | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| Loop Antenna                  | ETS-Lindgren         | 6502            | SEM003-08     | 2025-11-17 | 2027-11-16   |
| 3m Semi-Anechoic Chamber      | ETS-LINDGREN         | N/A             | SEM001-01     | 2023-06-19 | 2026-06-18   |
| MXE EMI Receiver              | Agilent Technologies | N9038A          | SEM004-15     | 2025-07-25 | 2026-07-24   |
| BiConiLog Antenna             | ETS-LINDGREN         | 3142C           | SEM003-01     | 2025-08-29 | 2027-08-28   |
| Pre-Amplifier                 | Agilent Technologies | 8447D           | SEM005-01     | 2026-02-02 | 2027-02-01   |
| Measurement Software          | AUDIX                | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                 | SGS                  | N/A             | SEM025-01     | 2025-07-05 | 2026-07-04   |

| Radiated Emissions Above 1GHz        |                 |                 |               |            |              |
|--------------------------------------|-----------------|-----------------|---------------|------------|--------------|
| Equipment                            | Manufacturer    | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| Signal & Spectrum Analyzer           | Rohde & Schwarz | FSV             | SZ-WRG-M-048  | 2025-12-16 | 2026-12-15   |
| Low Noise Amplifier 1G-18GHz         | Tonscend        | TAP01018050     | SZ-WRG-M-051  | 2025-12-16 | 2026-12-15   |
| Low Noise Amplifier 18G-40GHz        | Tonscend        | TAP18040048     | SZ-WRG-M-052  | 2025-12-16 | 2026-12-15   |
| Double Ridge Horn Antenna 1GHz-18GHz | SCHWARZBECK     | BBHA 9120 D     | SZ-WRG-M-055  | 2025-12-13 | 2026-12-12   |
| SHF-EHF Horn 15GHz-40GHz             | SCHWARZBECK     | BBHA 9170       | SZ-WRG-M-056  | 2025-12-13 | 2026-12-12   |
| RSE Test Software                    | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Chamber                              | CRTSGSSAC966    | N/A             | SZ-WRG-C-063  | 2025-01-06 | 2028-01-05   |
| Humidity and Temperature Indicator   | deli            | 8838            | SEM002-46     | 2025-07-23 | 2026-07-22   |



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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300105101

Page: 10 of 35

| RF Conducted Test                           |                              |               |               |            |              |
|---------------------------------------------|------------------------------|---------------|---------------|------------|--------------|
| Equipment                                   | Manufacturer                 | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
| DC Power Supply                             | Chroma                       | 62012P-80-60  | SEM011-11     | 2025-07-24 | 2026-07-23   |
| MXA Signal Analyzer                         | KEYSIGHT                     | N9020A        | SEM004-19     | 2026-02-03 | 2027-02-02   |
| Measurement Software                        | TST PASS                     | TST PASS V2.0 | N/A           | N/A        | N/A          |
| Coaxial Cable                               | SGS                          | N/A           | SEM031-01     | 2025-07-05 | 2026-07-04   |
| Attenuator                                  | Huber+Suhner                 | 6620_SMA-50-1 | SEM021-09     | 2026-02-02 | 2027-02-01   |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002       | SEM002-15     | 2026-02-03 | 2027-02-02   |

| General used equipment          |                                           |           |               |            |              |
|---------------------------------|-------------------------------------------|-----------|---------------|------------|--------------|
| Equipment                       | Manufacturer                              | Model No. | Inventory No. | Cal Date   | Cal Due Date |
| Humidity/ Temperature Indicator | deli                                      | 8838      | SEM002-32     | 2025-07-23 | 2026-07-22   |
| Humidity/ Temperature Indicator | deli                                      | 8838      | SEM002-33     | 2025-07-23 | 2026-07-22   |
| Barometer                       | Changchun Meteorological Industry Factory | DYM3      | SEM002-01     | 2026-02-14 | 2027-02-13   |



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos



## 7 Radio Spectrum Matter Test Results

### 7.1 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)  
 Test Method: ANSI C63.10 (2020) Section 6.5&6.6  
 Measurement Distance: 3m  
 Test Engineer: Xing Guo

Limit:

| Fundamental frequency(MHz) | Field strength of fundamental(millivolts/meter) | Field strength of harmonics(microvolts/meter) |
|----------------------------|-------------------------------------------------|-----------------------------------------------|
| 902-928                    | 50                                              | 500                                           |
| 2400-2483.5                | 50                                              | 500                                           |
| 5725-5875                  | 50                                              | 500                                           |
| 24000-24250                | 250                                             | 2500                                          |

Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

#### 7.1.1 E.U.T. Operation

Operating Environment:

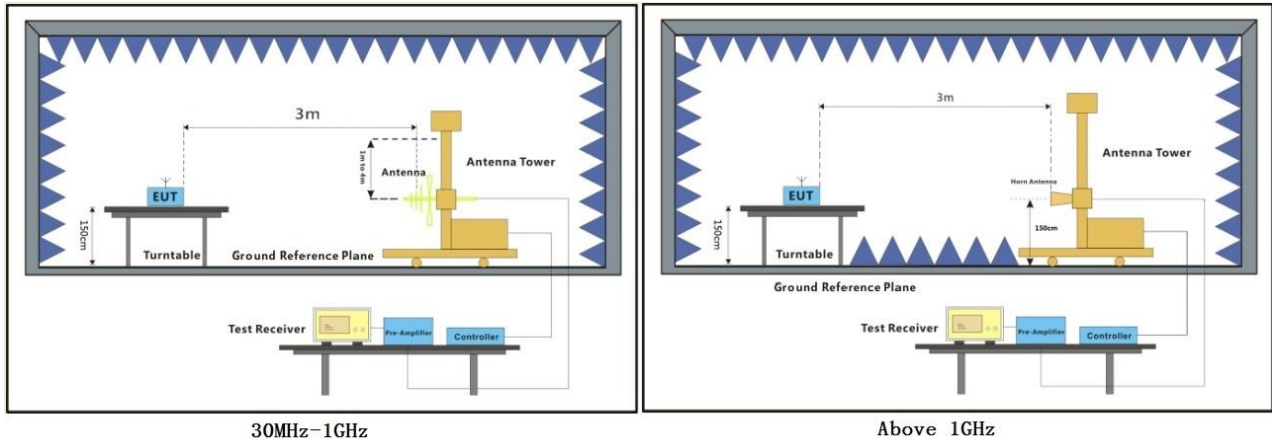
Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                |
|-----------------------|-----------|------------------------------------------------------------|
| Final test            | 00        | TX mode_Keep the EUT in transmitting with modulation mode. |



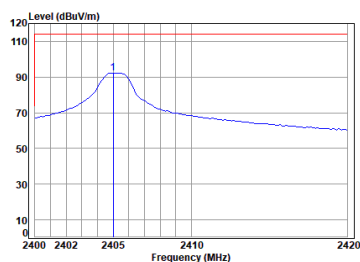
### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
  - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
  - The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
  - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
  - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
  - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
  - If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
  - Test the EUT in the lowest channel, the middle channel, the Highest channel.
  - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
  - Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2.4G\_SRD\_LOW\_TX\_Horizontal



Condition: 3m HORIZONTAL

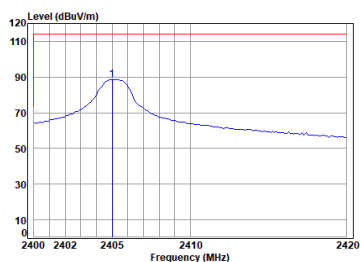
Job No : 001051ET

Mode : 2405 Field strength

: 2.4G SRD

| Freq          | Cable | Loss  | Ant    | Preamp | Read  | Level  | Limit  | Over | Aux    |
|---------------|-------|-------|--------|--------|-------|--------|--------|------|--------|
| MHz           | dB    | dB/m  | Factor | Factor | Level | dBuV/m | dBuV/m | dB   | Factor |
| 1 pp 2405.000 | 6.86  | 27.71 | 30.60  | 88.37  | 92.34 | 114.00 | -21.66 | Peak | 0.00   |

2.4G\_SRD\_LOW\_TX\_Vertical



Condition: 3m VERTICAL

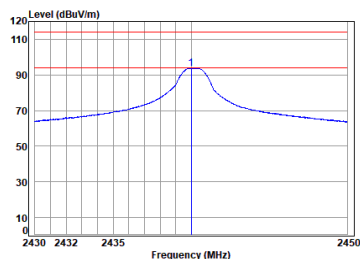
Job No : 001051ET

Mode : 2405 Field strength

: 2.4G SRD

| Freq          | Cable | Loss  | Ant    | Preamp | Read  | Level  | Limit  | Over | Aux    |
|---------------|-------|-------|--------|--------|-------|--------|--------|------|--------|
| MHz           | dB    | dB/m  | Factor | Factor | Level | dBuV/m | dBuV/m | dB   | Factor |
| 1 pp 2405.000 | 6.86  | 27.71 | 30.60  | 84.37  | 88.34 | 114.00 | -25.66 | Peak | 0.00   |

2.4G\_SRD\_MID\_TX\_Horizontal



Condition: 3m HORIZONTAL

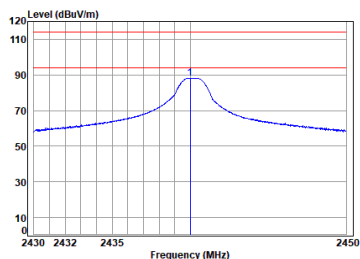
Job No : 001051ET

Mode : 2440 Field strength

: 2.4G SRD

| Freq          | Cable | Loss  | Ant    | Preamp | Read  | Level  | Limit  | Over | Aux    |
|---------------|-------|-------|--------|--------|-------|--------|--------|------|--------|
| MHz           | dB    | dB/m  | Factor | Factor | Level | dBuV/m | dBuV/m | dB   | Factor |
| 1 pp 2440.000 | 7.11  | 27.78 | 30.60  | 89.37  | 93.66 | 114.00 | -20.34 | Peak | 0.00   |

2.4G\_SRD\_MID\_TX\_Vertical



Condition: 3m VERTICAL

Job No : 001051ET

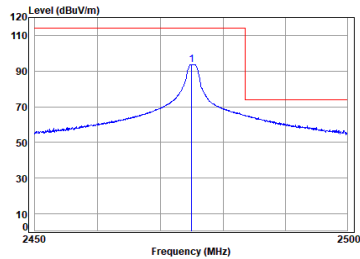
Mode : 2440 Field strength

: 2.4G SRD

| Freq          | Cable | Loss  | Ant    | Preamp | Read  | Level  | Limit  | Over | Aux    |
|---------------|-------|-------|--------|--------|-------|--------|--------|------|--------|
| MHz           | dB    | dB/m  | Factor | Factor | Level | dBuV/m | dBuV/m | dB   | Factor |
| 1 pp 2440.000 | 7.11  | 27.78 | 30.60  | 83.94  | 88.23 | 114.00 | -25.77 | Peak | 0.00   |



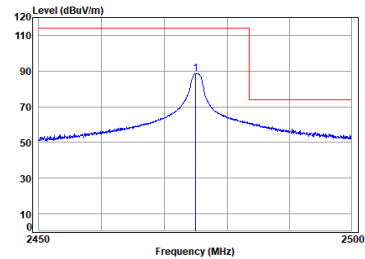
2.4G\_SRD\_HIGH\_TX\_Horizontal



Condition: 3m HORIZONTAL  
Job No : 001051ET  
Mode : 2475 Field strength  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 pp 2475.000 | 7.34       | 27.90      | 30.60         | 89.11      | 93.75  | 114.00     | -20.25     | Peak   | 0.00       |

2.4G\_SRD\_HIGH\_TX\_Vertical



Condition: 3m VERTICAL  
Job No : 001051ET  
Mode : 2475 Field strength  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 pp 2475.000 | 7.34       | 27.90      | 30.60         | 83.81      | 88.45  | 114.00     | -25.55     | Peak   | 0.00       |



## 7.2 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209  
 Test Method: ANSI C63.10 (2020) Section 6.10.5  
 Measurement Distance: 3m  
 Test Engineer: Xing Guo

Limit:

| Frequency     | Limit (dBuV/m @3m) | Remark           |
|---------------|--------------------|------------------|
| 30MHz-88MHz   | 40.0               | Quasi-peak Value |
| 88MHz-216MHz  | 43.5               | Quasi-peak Value |
| 216MHz-960MHz | 46.0               | Quasi-peak Value |
| 960MHz-1GHz   | 54.0               | Quasi-peak Value |
| Above 1GHz    | 54.0               | Average Value    |
| Above 1GHz    | 74.0               | Peak Value       |

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

### 7.2.1 E.U.T. Operation

Operating Environment:

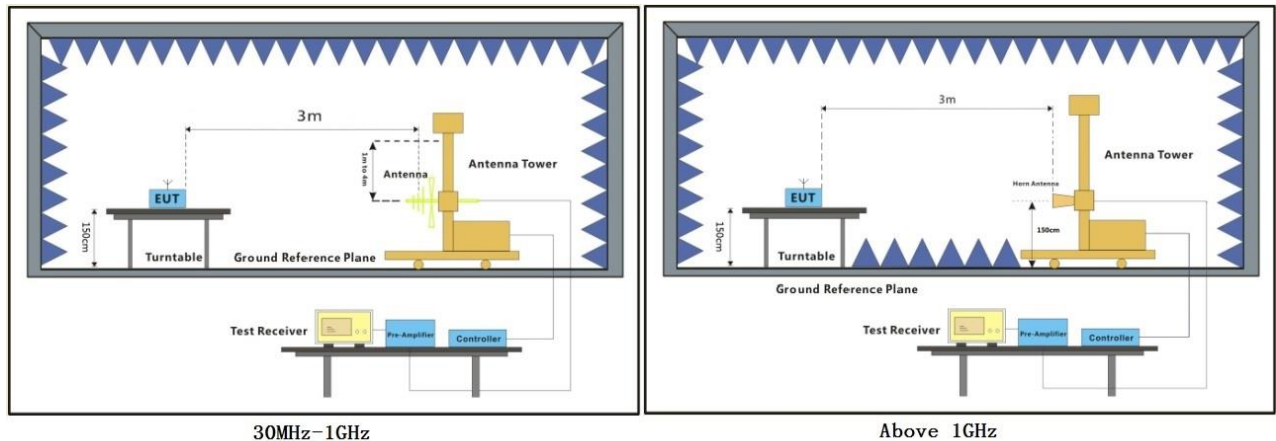
Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                 |
|-----------------------|-----------|-------------------------------------------------------------|
| Final test            | 00        | TX mode_ Keep the EUT in transmitting with modulation mode. |



### 7.2.3 Test Setup Diagram



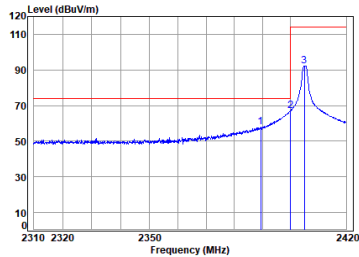
### 7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



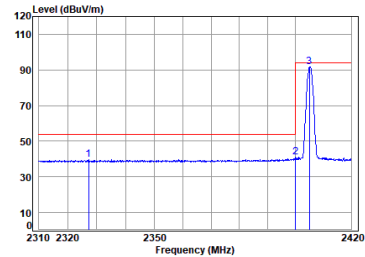
2.4G\_SRD\_LOW\_TX\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 001051ET  
Mode : 2405 Band edge  
: 2.4G SRD

|   | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---|----------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
|   | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 | 2389.349 | 6.82       | 27.68      | 30.60         | 53.84      | 57.74  | 74.00      | -16.26     | Peak   | 0.00       |
| 2 | 2400.000 | 6.83       | 27.70      | 30.60         | 62.98      | 66.91  | 74.00      | -7.09      | Peak   | 0.00       |
| 3 | 2405.000 | 6.86       | 27.71      | 30.60         | 88.37      | 92.34  | 114.00     | -21.66     | Peak   | 0.00       |

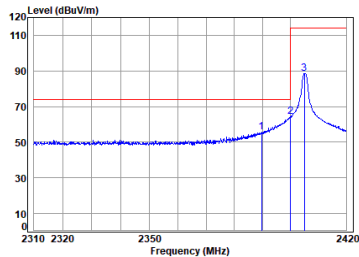
2.4G\_SRD\_LOW\_TX\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 001051ET  
Mode : 2405 Band edge  
: 2.4G SRD

|   | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|---|----------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
|   | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 | 2327.150 | 6.79       | 27.60      | 30.60         | 35.82      | 39.61  | 54.00      | -14.39     | Average | 0.00       |
| 2 | 2400.000 | 6.83       | 27.70      | 30.60         | 37.02      | 40.95  | 54.00      | -13.05     | Average | 0.00       |
| 3 | 2405.000 | 6.86       | 27.71      | 30.60         | 87.79      | 91.76  | 94.00      | -2.24      | Average | 0.00       |

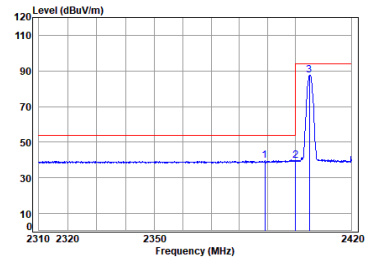
2.4G\_SRD\_LOW\_TX\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 001051ET  
Mode : 2405 Band edge  
: 2.4G SRD

|   | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---|----------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
|   | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 | 2389.683 | 6.82       | 27.68      | 30.60         | 51.95      | 55.85  | 74.00      | -18.15     | Peak   | 0.00       |
| 2 | 2400.000 | 6.83       | 27.70      | 30.60         | 60.28      | 64.21  | 74.00      | -9.79      | Peak   | 0.00       |
| 3 | 2405.000 | 6.86       | 27.71      | 30.60         | 84.37      | 88.34  | 114.00     | -25.66     | Peak   | 0.00       |

2.4G\_SRD\_LOW\_TX\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 001051ET  
Mode : 2405 Band edge  
: 2.4G SRD

|   | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|---|----------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
|   | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 | 2389.127 | 6.82       | 27.68      | 30.60         | 35.80      | 39.70  | 54.00      | -14.30     | Average | 0.00       |
| 2 | 2400.000 | 6.83       | 27.70      | 30.60         | 35.83      | 39.76  | 54.00      | -14.24     | Average | 0.00       |
| 3 | 2405.000 | 6.86       | 27.71      | 30.60         | 83.82      | 87.79  | 94.00      | -6.21      | Average | 0.00       |



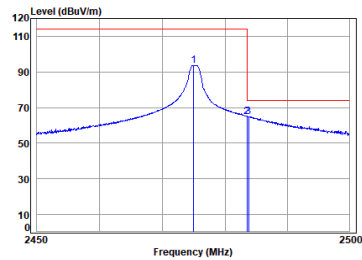
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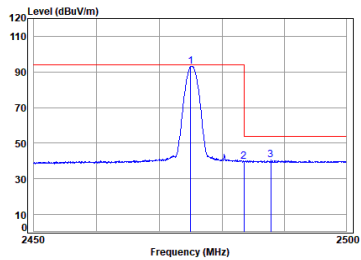
2.4G\_SRD\_HIGH\_TX\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 001051ET  
Mode : 2475 Band edge  
: 2.4G SRD

| Freq | Cable    | Loss | Ant    | Preamp | Read  | Level  | Limit  | Over   | Aux    |
|------|----------|------|--------|--------|-------|--------|--------|--------|--------|
| MHz  | dB       | dB/m | Factor | Factor | Level | dBuV/m | dBuV/m | Limit  | Factor |
| 1    | 2475.000 | 7.34 | 27.90  | 30.60  | 89.11 | 93.75  | 114.00 | -20.25 | Peak   |
| 2    | 2483.500 | 7.40 | 27.93  | 30.60  | 68.23 | 64.96  | 74.00  | -9.04  | Peak   |
| 3    | 2483.790 | 7.40 | 27.94  | 30.60  | 68.15 | 64.89  | 74.00  | -9.11  | Peak   |

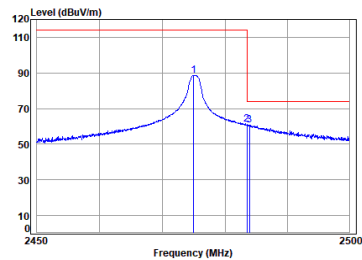
2.4G\_SRD\_HIGH\_TX\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 001051ET  
Mode : 2475 Band edge  
: 2.4G SRD

| Freq | Cable       | Loss | Ant    | Preamp | Read  | Level  | Limit  | Over   | Aux     |
|------|-------------|------|--------|--------|-------|--------|--------|--------|---------|
| MHz  | dB          | dB/m | Factor | Factor | Level | dBuV/m | dBuV/m | Limit  | Factor  |
| 1    | pp 2475.000 | 7.34 | 27.90  | 30.60  | 88.52 | 93.16  | 94.00  | -0.84  | Average |
| 2    | 2483.500    | 7.40 | 27.93  | 30.60  | 34.75 | 39.48  | 54.00  | -14.52 | Average |
| 3    | 2487.857    | 7.43 | 27.95  | 30.60  | 35.61 | 40.39  | 54.00  | -13.61 | Average |

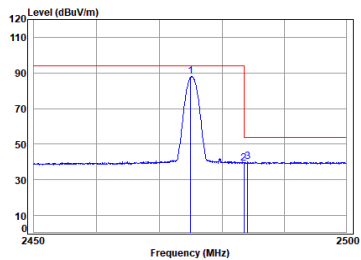
2.4G\_SRD\_HIGH\_TX\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 001051ET  
Mode : 2475 Band edge  
: 2.4G SRD

| Freq | Cable    | Loss | Ant    | Preamp | Read  | Level  | Limit  | Over   | Aux    |
|------|----------|------|--------|--------|-------|--------|--------|--------|--------|
| MHz  | dB       | dB/m | Factor | Factor | Level | dBuV/m | dBuV/m | Limit  | Factor |
| 1    | 2475.000 | 7.34 | 27.90  | 30.60  | 83.81 | 88.45  | 114.00 | -25.55 | Peak   |
| 2    | 2483.500 | 7.40 | 27.93  | 30.60  | 56.19 | 60.92  | 74.00  | -13.08 | Peak   |
| 3    | 2483.940 | 7.40 | 27.94  | 30.60  | 55.94 | 60.68  | 74.00  | -13.32 | Peak   |

2.4G\_SRD\_HIGH\_TX\_Vertical-Avg



Condition: 3m VERTICAL  
Job No : 001051ET  
Mode : 2475 Band edge  
: 2.4G SRD

| Freq | Cable       | Loss | Ant    | Preamp | Read  | Level  | Limit  | Over   | Aux     |
|------|-------------|------|--------|--------|-------|--------|--------|--------|---------|
| MHz  | dB          | dB/m | Factor | Factor | Level | dBuV/m | dBuV/m | Limit  | Factor  |
| 1    | pp 2475.000 | 7.34 | 27.90  | 30.60  | 83.20 | 87.84  | 94.00  | -6.16  | Average |
| 2    | 2483.500    | 7.40 | 27.93  | 30.60  | 34.51 | 39.24  | 54.00  | -14.76 | Average |
| 3    | 2484.141    | 7.40 | 27.94  | 30.60  | 35.41 | 40.15  | 54.00  | -13.85 | Average |



## 7.3 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)  
 Test Method: ANSI C63.10 (2020) Section 6.4&6.5  
 Measurement Distance: 3m  
 Test Engineer: Mason Wu

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490    | 2400/F(kHz)                      | 300                          |
| 0.490-1.705    | 24000/F(kHz)                     | 30                           |
| 1.705-30.0     | 30                               | 30                           |
| 30-88          | 100                              | 3                            |
| 88-216         | 150                              | 3                            |
| 216-960        | 200                              | 3                            |
| 960-1000       | 500                              | 3                            |

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is  $40\log(3/300) = -80\text{dB}$  (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is  $20\log(10/3) = 10.46\text{dB}$  (for 10m test distance).

### 7.3.1 E.U.T. Operation

Operating Environment:

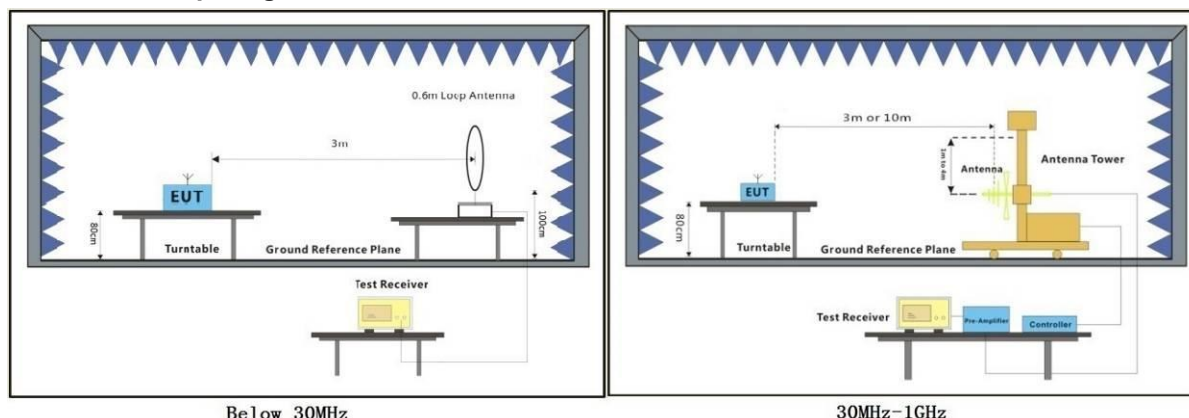
Temperature: 23.3 °C Humidity: 45.6 % RH Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                 |
|-----------------------|-----------|-------------------------------------------------------------|
| Final test            | 00        | TX mode_ Keep the EUT in transmitting with modulation mode. |



### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

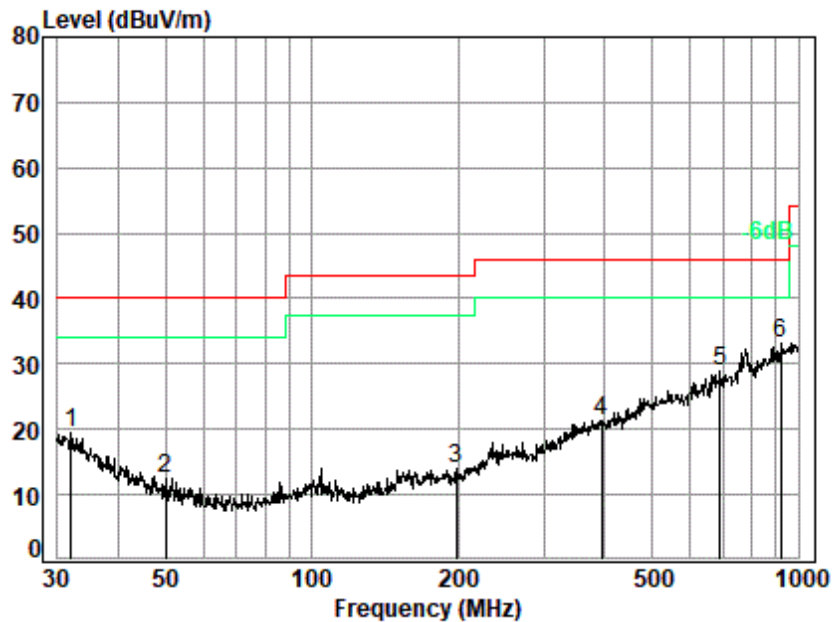
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only below points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



Test Mode: 00; Polarity: Horizontal

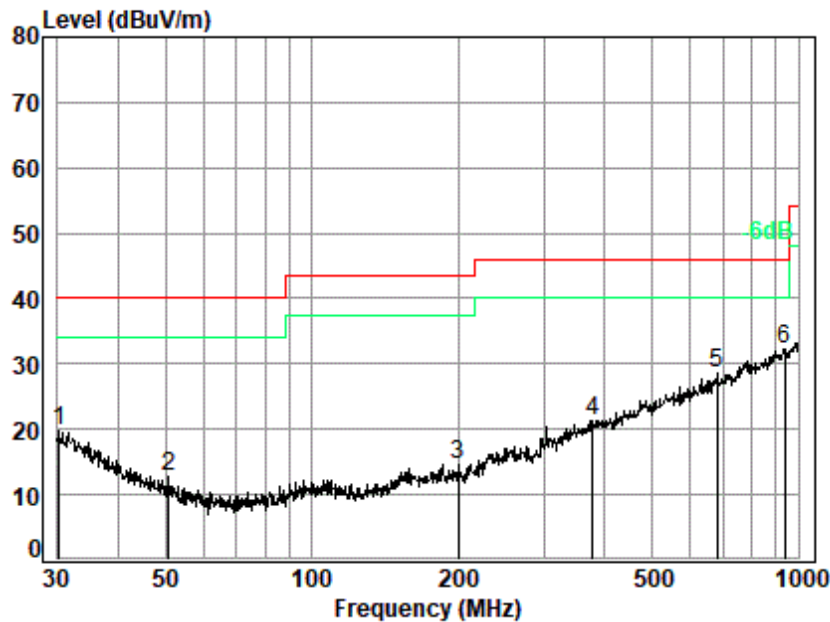


Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 01051ET  
Test Mode: 00

|      | Ant     | Cable | Preamp | Read  |        | Limit  | Over  |           |
|------|---------|-------|--------|-------|--------|--------|-------|-----------|
| Freq | Factor  | Loss  | Factor | Level | Level  | Line   | Limit | Remark    |
| MHz  | dB/m    | dB    | dB     | dBuV  | dBuV/m | dBuV/m | dB    |           |
| 1    | 31.955  | 20.44 | 0.76   | 27.65 | 25.79  | 19.34  | 40.00 | -20.66 QP |
| 2    | 50.057  | 13.03 | 0.90   | 27.63 | 26.18  | 12.48  | 40.00 | -27.52 QP |
| 3    | 197.893 | 14.16 | 1.69   | 27.80 | 26.01  | 14.06  | 43.50 | -29.44 QP |
| 4    | 394.855 | 20.43 | 2.47   | 27.74 | 26.19  | 21.35  | 46.00 | -24.65 QP |
| 5    | 691.987 | 25.72 | 3.39   | 27.85 | 27.63  | 28.89  | 46.00 | -17.11 QP |
| 6    | 919.287 | 28.73 | 4.02   | 26.85 | 27.11  | 33.01  | 46.00 | -12.99 QP |



Test Mode: 00; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01051ET  
Test Mode: 00

|      | Ant     | Cable | Preamp | Read  |        | Limit  | Over  |           |
|------|---------|-------|--------|-------|--------|--------|-------|-----------|
| Freq | Factor  | Loss  | Factor | Level | Level  | Line   | Limit | Remark    |
| MHz  | dB/m    | dB    | dB     | dBuV  | dBuV/m | dBuV/m | dB    |           |
| 1    | 30.211  | 21.34 | 0.74   | 27.65 | 25.48  | 19.91  | 40.00 | -20.09 QP |
| 2    | 50.764  | 12.87 | 0.90   | 27.63 | 26.77  | 12.91  | 40.00 | -27.09 QP |
| 3    | 199.986 | 14.27 | 1.70   | 27.80 | 26.56  | 14.73  | 43.50 | -28.77 QP |
| 4    | 377.259 | 20.46 | 2.41   | 27.70 | 26.23  | 21.40  | 46.00 | -24.60 QP |
| 5    | 679.960 | 25.62 | 3.35   | 27.88 | 27.57  | 28.66  | 46.00 | -17.34 QP |
| 6    | 938.833 | 28.97 | 4.06   | 26.74 | 25.92  | 32.21  | 46.00 | -13.79 QP |



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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300105101

Page: 24 of 35

## 7.4 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)  
 Test Method: ANSI C63.10 (2020) Section 6.6  
 Measurement Distance: 3m  
 Test Engineer: Xing Guo

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| Above 1000     | 500                              | 3                            |

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is  $20\log(1/3) = -9.54\text{dB}$  (for 1m test distance).

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                |
|-----------------------|-----------|------------------------------------------------------------|
| Final test            | 00        | TX mode_Keep the EUT in transmitting with modulation mode. |



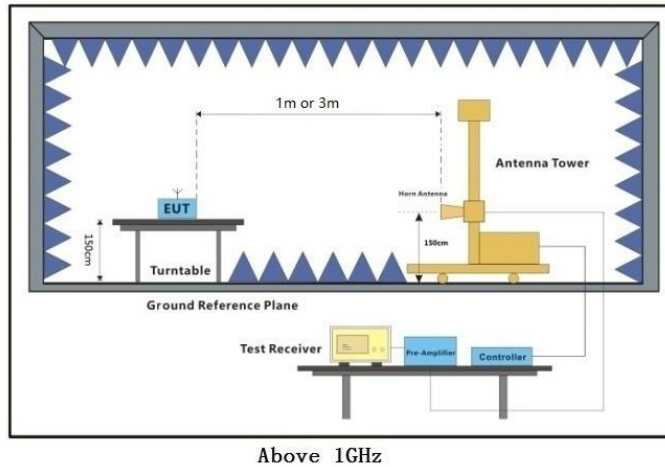
SGS-CSTC Standards Technical Services Co., Ltd.  
 Shenzhen Branch Inspection & Testing Services Laboratory

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### 7.4.3 Test Setup Diagram



## 7.4.4 Measurement Procedure and Data

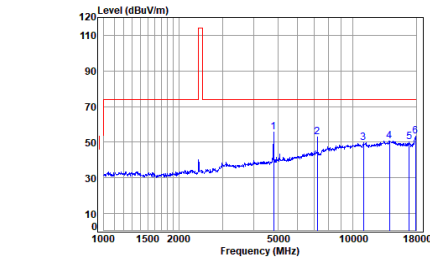
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

### Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.



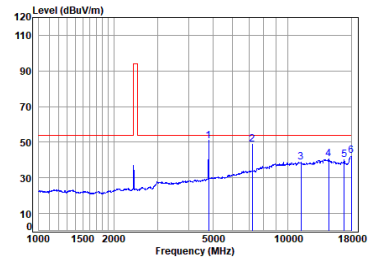
2.4G\_SRD\_LOW\_TX\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 01051ET  
Mode : 2405 TX RSE  
: 2.4G SRD

| Freq          | Cable | Ant    | Preamp | Read  | Level  | Limit  | Over        | Aux    |
|---------------|-------|--------|--------|-------|--------|--------|-------------|--------|
| MHz           | Loss  | Factor | Factor | Level | dBuV/m | dBuV/m | Limit       | Factor |
|               | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          | dB     |
| 1 pp 4804.110 | 8.90  | 32.62  | 55.92  | 69.95 | 55.55  | 74.00  | -18.45 Peak | 0.00   |
| 2 7221.150    | 11.10 | 36.96  | 56.36  | 61.30 | 53.00  | 74.00  | -21.00 Peak | 0.00   |
| 3 11044.130   | 14.18 | 39.30  | 53.49  | 49.74 | 49.73  | 74.00  | -24.27 Peak | 0.00   |
| 4 14079.000   | 16.38 | 40.44  | 54.10  | 48.08 | 50.00  | 74.00  | -23.20 Peak | 0.00   |
| 5 16891.040   | 19.64 | 38.60  | 53.88  | 45.68 | 50.04  | 74.00  | -23.96 Peak | 0.00   |
| 6 17896.250   | 18.87 | 41.97  | 54.26  | 46.58 | 53.16  | 74.00  | -20.84 Peak | 0.00   |

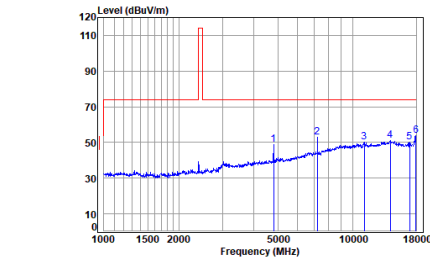
2.4G\_SRD\_LOW\_TX\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 01051ET  
Mode : 2405 TX RSE  
: 2.4G SRD

| Freq          | Cable | Ant    | Preamp | Read  | Level  | Limit  | Over           | Aux    |
|---------------|-------|--------|--------|-------|--------|--------|----------------|--------|
| MHz           | Loss  | Factor | Factor | Level | dBuV   | dBuV/m | Limit          | Factor |
|               | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB             | dB     |
| 1 pp 4804.110 | 8.90  | 32.62  | 55.92  | 65.13 | 50.73  | 54.00  | -3.27 Average  | 0.00   |
| 2 7221.150    | 11.10 | 36.96  | 56.36  | 57.17 | 48.87  | 54.00  | -5.13 Average  | 0.00   |
| 3 11302.400   | 14.39 | 39.40  | 53.41  | 38.40 | 38.78  | 54.00  | -15.22 Average | 0.00   |
| 4 14618.170   | 16.62 | 40.20  | 54.10  | 37.79 | 40.51  | 54.00  | -13.49 Average | 0.00   |
| 5 16891.040   | 19.64 | 38.60  | 53.88  | 35.72 | 40.88  | 54.00  | -13.92 Average | 0.00   |
| 6 18000.000   | 18.64 | 42.60  | 54.30  | 35.55 | 42.49  | 54.00  | -11.51 Average | 0.00   |

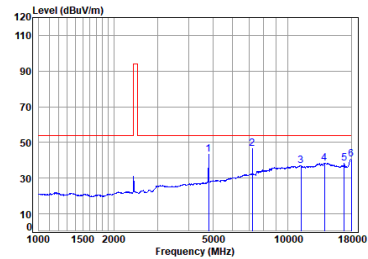
2.4G\_SRD\_LOW\_TX\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 01051ET  
Mode : 2405 TX RSE  
: 2.4G SRD

| Freq          | Cable | Ant    | Preamp | Read  | Level  | Limit  | Over        | Aux    |
|---------------|-------|--------|--------|-------|--------|--------|-------------|--------|
| MHz           | Loss  | Factor | Factor | Level | dBuV   | dBuV/m | Limit       | Factor |
|               | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          | dB     |
| 1 4804.110    | 8.90  | 32.62  | 55.92  | 63.17 | 48.77  | 74.00  | -25.23 Peak | 0.00   |
| 2 7221.150    | 11.10 | 36.96  | 56.36  | 61.41 | 53.11  | 74.00  | -20.89 Peak | 0.00   |
| 3 11140.310   | 14.17 | 39.38  | 53.46  | 49.93 | 50.02  | 74.00  | -23.98 Peak | 0.00   |
| 4 14160.710   | 16.53 | 40.46  | 54.10  | 48.29 | 51.18  | 74.00  | -22.82 Peak | 0.00   |
| 5 16939.040   | 19.22 | 38.68  | 53.89  | 46.10 | 50.11  | 74.00  | -23.89 Peak | 0.00   |
| 6 pp17948.050 | 18.75 | 42.29  | 54.28  | 46.91 | 53.67  | 74.00  | -20.33 Peak | 0.00   |

2.4G\_SRD\_LOW\_TX\_Vertical-Avg

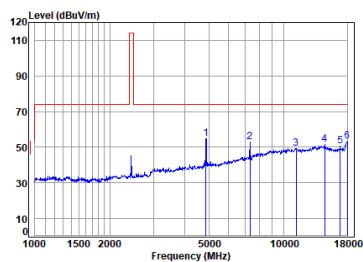


Condition: 3m VERTICAL  
Job No : 01051ET  
Mode : 2405 TX RSE  
: 2.4G SRD

| Freq          | Cable | Ant    | Preamp | Read  | Level  | Limit  | Over           | Aux    |
|---------------|-------|--------|--------|-------|--------|--------|----------------|--------|
| MHz           | Loss  | Factor | Factor | Level | dBuV   | dBuV/m | Limit          | Factor |
|               | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB             | dB     |
| 1 4804.110    | 8.90  | 32.62  | 55.92  | 57.70 | 43.30  | 54.00  | -10.70 Average | 0.00   |
| 2 pp 7221.150 | 11.10 | 36.96  | 56.36  | 54.62 | 46.32  | 54.00  | -7.68 Average  | 0.00   |
| 3 11302.400   | 14.39 | 39.40  | 53.41  | 36.79 | 37.17  | 54.00  | -16.83 Average | 0.00   |
| 4 14079.000   | 16.38 | 40.44  | 54.10  | 35.00 | 38.52  | 54.00  | -15.48 Average | 0.00   |
| 5 16891.040   | 19.64 | 38.60  | 53.88  | 33.94 | 38.30  | 54.00  | -15.70 Average | 0.00   |
| 6 18000.000   | 18.64 | 42.60  | 54.30  | 33.87 | 40.81  | 54.00  | -13.19 Average | 0.00   |



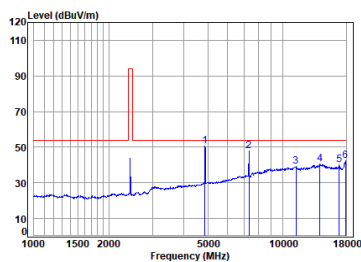
2.4G\_SRD\_MID\_TX\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 01051ET  
Mode : 2440 TX RSE  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        | dB         |
| 1 pp 4874.043 | 8.97       | 32.85      | 55.99         | 69.14      | 54.97  | 74.00  | -19.03 | Peak   | 0.00       |
| 2 7326.267    | 11.13      | 36.90      | 56.30         | 61.06      | 52.79  | 74.00  | -21.21 | Peak   | 0.00       |
| 3 11302.480   | 14.39      | 39.50      | 53.44         | 48.90      | 49.21  | 74.00  | -24.79 | Peak   | 0.00       |
| 4 14618.170   | 16.62      | 40.20      | 54.10         | 48.80      | 51.52  | 74.00  | -22.48 | Peak   | 0.00       |
| 5 16891.040   | 19.64      | 38.60      | 53.88         | 46.36      | 50.72  | 74.00  | -23.28 | Peak   | 0.00       |
| 6 18000.000   | 18.64      | 42.60      | 54.30         | 46.22      | 53.16  | 74.00  | -20.84 | Peak   | 0.00       |

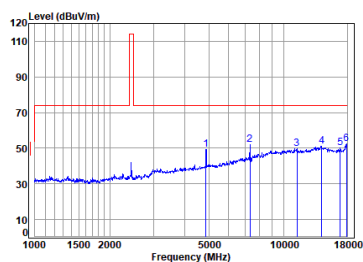
2.4G\_SRD\_MID\_TX\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 01051ET  
Mode : 2440 TX RSE  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |         | dB         |
| 1 pp 4874.043 | 8.97       | 32.85      | 55.99         | 64.67      | 50.50  | 54.00  | -3.50  | Average | 0.00       |
| 2 7326.267    | 11.13      | 36.90      | 56.30         | 56.25      | 47.98  | 54.00  | -6.02  | Average | 0.00       |
| 3 11302.480   | 14.39      | 39.40      | 53.41         | 38.81      | 39.19  | 54.00  | -14.81 | Average | 0.00       |
| 4 14618.170   | 16.40      | 40.42      | 54.10         | 37.70      | 40.42  | 54.00  | -13.58 | Average | 0.00       |
| 5 16891.040   | 19.64      | 38.60      | 53.88         | 35.72      | 40.08  | 54.00  | -13.92 | Average | 0.00       |
| 6 17896.250   | 18.87      | 41.97      | 54.26         | 35.96      | 42.54  | 54.00  | -11.46 | Average | 0.00       |

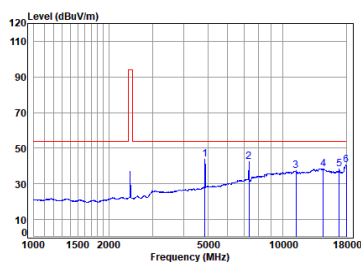
2.4G\_SRD\_MID\_TX\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 01051ET  
Mode : 2440 TX RSE  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        | dB         |
| 1 4874.043    | 8.97       | 32.85      | 55.99         | 63.55      | 49.38  | 74.00  | -24.62 | Peak   | 0.00       |
| 2 7326.267    | 11.13      | 36.90      | 56.30         | 60.24      | 51.97  | 74.00  | -22.03 | Peak   | 0.00       |
| 3 11302.480   | 14.39      | 39.40      | 53.41         | 49.27      | 49.65  | 74.00  | -24.35 | Peak   | 0.00       |
| 4 14201.690   | 16.67      | 40.50      | 54.10         | 47.83      | 50.90  | 74.00  | -23.10 | Peak   | 0.00       |
| 5 16891.040   | 19.64      | 38.60      | 53.88         | 45.88      | 50.24  | 74.00  | -23.76 | Peak   | 0.00       |
| 6 pp17896.250 | 18.87      | 41.97      | 54.26         | 45.76      | 52.34  | 74.00  | -21.66 | Peak   | 0.00       |

2.4G\_SRD\_MID\_TX\_Vertical-Avg

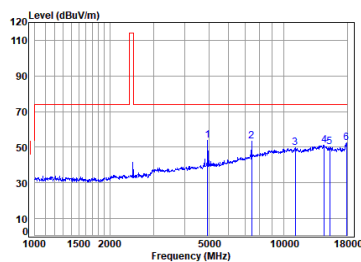


Condition: 3m VERTICAL  
Job No : 01051ET  
Mode : 2440 TX RSE  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|--------|--------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |         | dB         |
| 1 pp 4874.043 | 8.97       | 32.85      | 55.99         | 58.15      | 43.98  | 54.00  | -10.02 | Average | 0.00       |
| 2 7326.267    | 11.13      | 36.90      | 56.30         | 50.74      | 42.47  | 54.00  | -11.53 | Average | 0.00       |
| 3 11302.480   | 14.39      | 39.40      | 53.41         | 36.82      | 37.20  | 54.00  | -16.80 | Average | 0.00       |
| 4 14575.970   | 16.46      | 40.20      | 54.10         | 35.94      | 38.50  | 54.00  | -15.50 | Average | 0.00       |
| 5 16891.040   | 19.64      | 38.60      | 53.88         | 34.16      | 38.52  | 54.00  | -15.48 | Average | 0.00       |
| 6 18000.000   | 18.64      | 42.60      | 54.30         | 33.71      | 40.65  | 54.00  | -13.35 | Average | 0.00       |



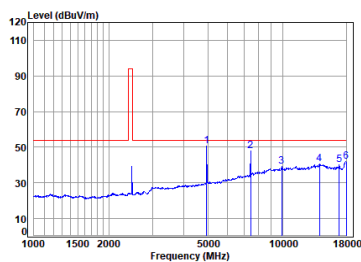
2.4G\_SRD\_HIGH\_TX\_Horizontal-Peak



Condition: 3m HORIZONTAL  
Job No : 01051ET  
Mode : 2475 TX RSE  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 pp 4944.993 | 9.05       | 33.08      | 56.05         | 67.97      | 54.05  | 74.00      | -19.95     | Peak   | 0.00       |
| 2 7432.914    | 11.10      | 36.77      | 56.23         | 61.71      | 53.35  | 74.00      | -20.65     | Peak   | 0.00       |
| 3 11140.310   | 14.17      | 39.38      | 53.46         | 49.52      | 49.61  | 74.00      | -24.39     | Peak   | 0.00       |
| 4 14575.970   | 16.46      | 40.20      | 54.10         | 48.52      | 51.08  | 74.00      | -22.92     | Peak   | 0.00       |
| 5 15310.070   | 17.57      | 39.18      | 53.97         | 47.44      | 50.22  | 74.00      | -23.78     | Peak   | 0.00       |
| 6 17896.258   | 18.87      | 41.97      | 54.26         | 46.12      | 52.70  | 74.00      | -21.30     | Peak   | 0.00       |

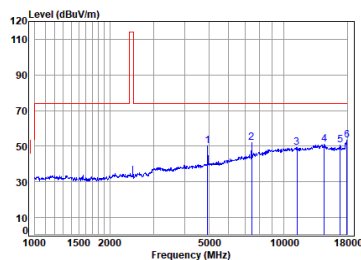
2.4G\_SRD\_HIGH\_TX\_Horizontal-Avg



Condition: 3m HORIZONTAL  
Job No : 01051ET  
Mode : 2475 TX RSE  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 pp 4944.993 | 9.05       | 33.08      | 56.05         | 64.73      | 50.81  | 54.00      | -3.19      | Average | 0.00       |
| 2 7432.914    | 11.10      | 36.77      | 56.23         | 56.14      | 47.78  | 54.00      | -6.22      | Average | 0.00       |
| 3 9895.340    | 12.70      | 38.59      | 53.71         | 41.71      | 39.29  | 54.00      | -14.71     | Average | 0.00       |
| 4 14038.450   | 16.47      | 40.52      | 54.10         | 37.89      | 40.78  | 54.00      | -13.22     | Average | 0.00       |
| 5 16891.040   | 19.64      | 38.60      | 53.88         | 35.60      | 39.96  | 54.00      | -14.04     | Average | 0.00       |
| 6 18000.000   | 18.64      | 42.60      | 54.30         | 35.26      | 42.20  | 54.00      | -11.80     | Average | 0.00       |

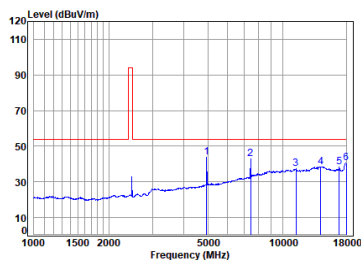
2.4G\_SRD\_HIGH\_TX\_Vertical-Peak



Condition: 3m VERTICAL  
Job No : 01051ET  
Mode : 2475 TX RSE  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 4944.993    | 9.05       | 33.08      | 56.05         | 64.04      | 50.12  | 74.00      | -23.88     | Peak   | 0.00       |
| 2 7432.914    | 11.10      | 36.77      | 56.23         | 60.18      | 51.82  | 74.00      | -22.18     | Peak   | 0.00       |
| 3 11302.480   | 14.39      | 39.40      | 53.41         | 49.07      | 49.45  | 74.00      | -24.55     | Peak   | 0.00       |
| 4 14533.910   | 16.36      | 40.20      | 54.10         | 48.61      | 51.07  | 74.00      | -22.93     | Peak   | 0.00       |
| 5 16891.040   | 19.64      | 38.60      | 53.88         | 46.48      | 50.84  | 74.00      | -23.16     | Peak   | 0.00       |
| 6 pp17948.050 | 18.75      | 42.29      | 54.28         | 46.62      | 53.38  | 74.00      | -20.62     | Peak   | 0.00       |

2.4G\_SRD\_HIGH\_TX\_Vertical-Avg

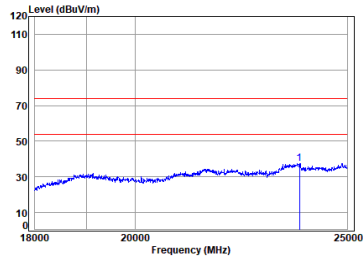


Condition: 3m VERTICAL  
Job No : 01051ET  
Mode : 2475 TX RSE  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|---------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 pp 4944.993 | 9.05       | 33.08      | 56.05         | 57.84      | 43.92  | 54.00      | -10.08     | Average | 0.00       |
| 2 7432.914    | 11.10      | 36.77      | 56.23         | 51.31      | 42.95  | 54.00      | -11.05     | Average | 0.00       |
| 3 11302.480   | 14.39      | 39.40      | 53.41         | 37.06      | 37.44  | 54.00      | -16.56     | Average | 0.00       |
| 4 14242.800   | 16.83      | 40.46      | 54.10         | 35.31      | 38.50  | 54.00      | -15.50     | Average | 0.00       |
| 5 16891.040   | 19.64      | 38.60      | 53.88         | 34.07      | 38.43  | 54.00      | -15.57     | Average | 0.00       |
| 6 18000.000   | 18.64      | 42.60      | 54.30         | 33.87      | 40.81  | 54.00      | -13.19     | Average | 0.00       |



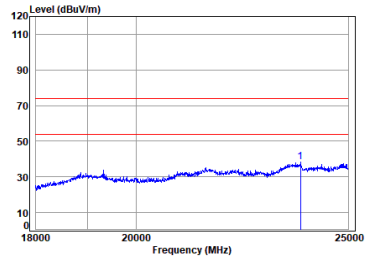
2.4G\_SRD\_LOW\_TX\_Horizontal



Condition: 3m HORIZONTAL  
Job No : 01051ET  
Mode : 2405 TX RSE  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 pp23774.530 | 6.77       | 38.83      | 50.36         | 51.84      | 37.54  | 74.00      | -36.46     | Peak   | -9.54      |

2.4G\_SRD\_LOW\_TX\_Vertical



Condition: 3m VERTICAL  
Job No : 01051ET  
Mode : 2405 TX RSE  
: 2.4G SRD

| Freq          | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark | Aux Factor |
|---------------|------------|------------|---------------|------------|--------|------------|------------|--------|------------|
| MHz           | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        | dB         |
| 1 pp23774.530 | 6.77       | 38.83      | 50.36         | 52.64      | 38.34  | 74.00      | -35.66     | Peak   | -9.54      |



### 7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215  
 Test Method: ANSI C63.10 (2020) Section 6.9  
 Test Engineer: Mingli Hu

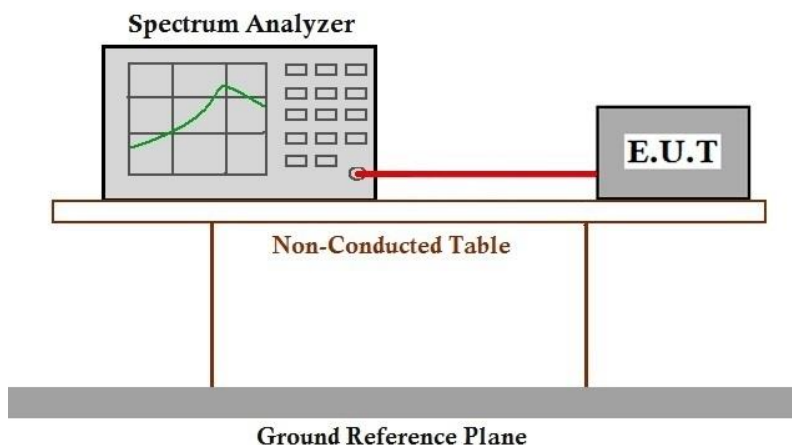
#### 7.5.1 E.U.T. Operation

Operating Environment:  
 Temperature: 26.2 °C Humidity: 61.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.5.2 Test Mode Description

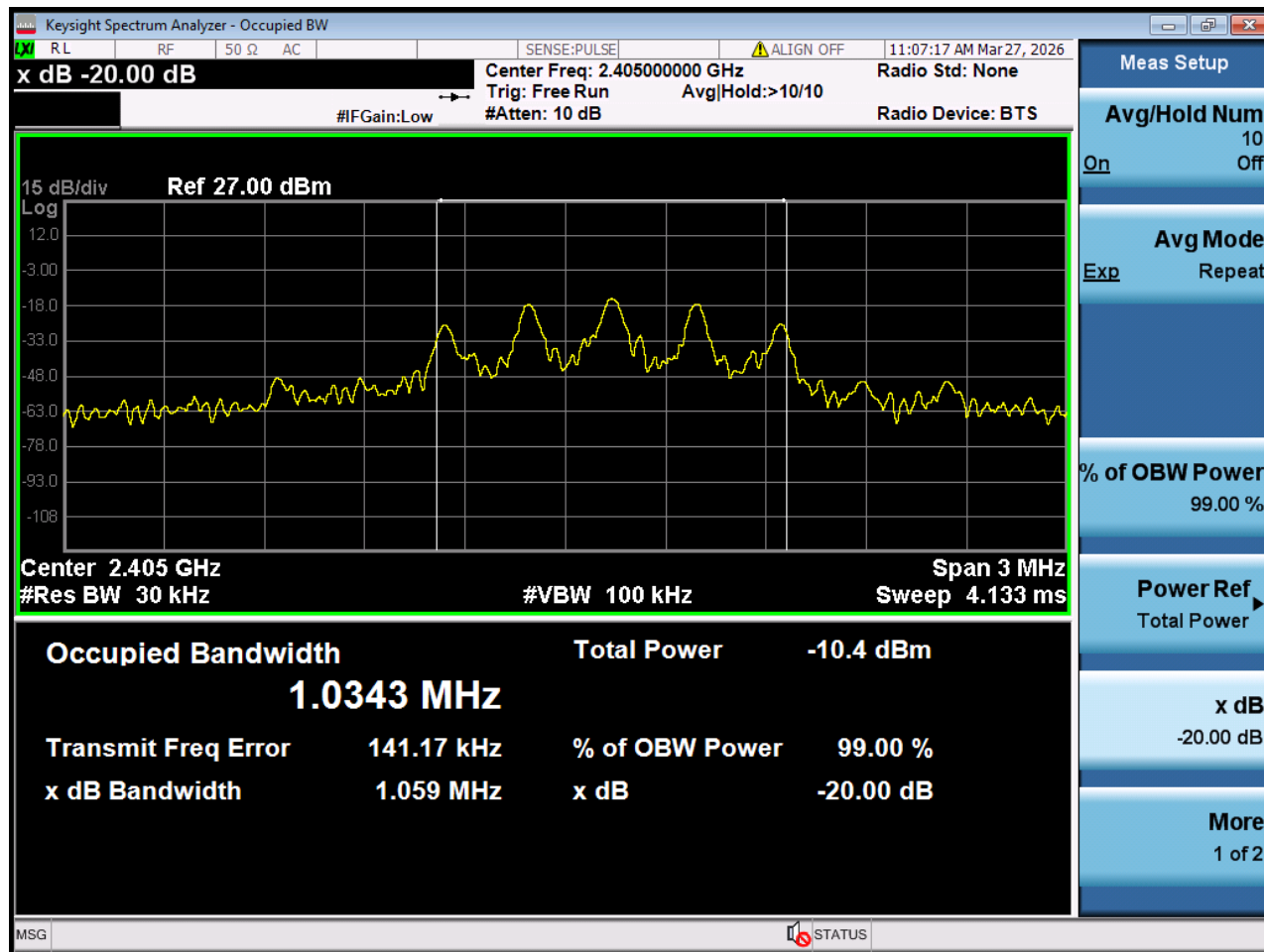
| Pre-scan / Final test | Mode Code | Description                                                |
|-----------------------|-----------|------------------------------------------------------------|
| Final test            | 00        | TX mode_Keep the EUT in transmitting with modulation mode. |

#### 7.5.3 Test Setup Diagram

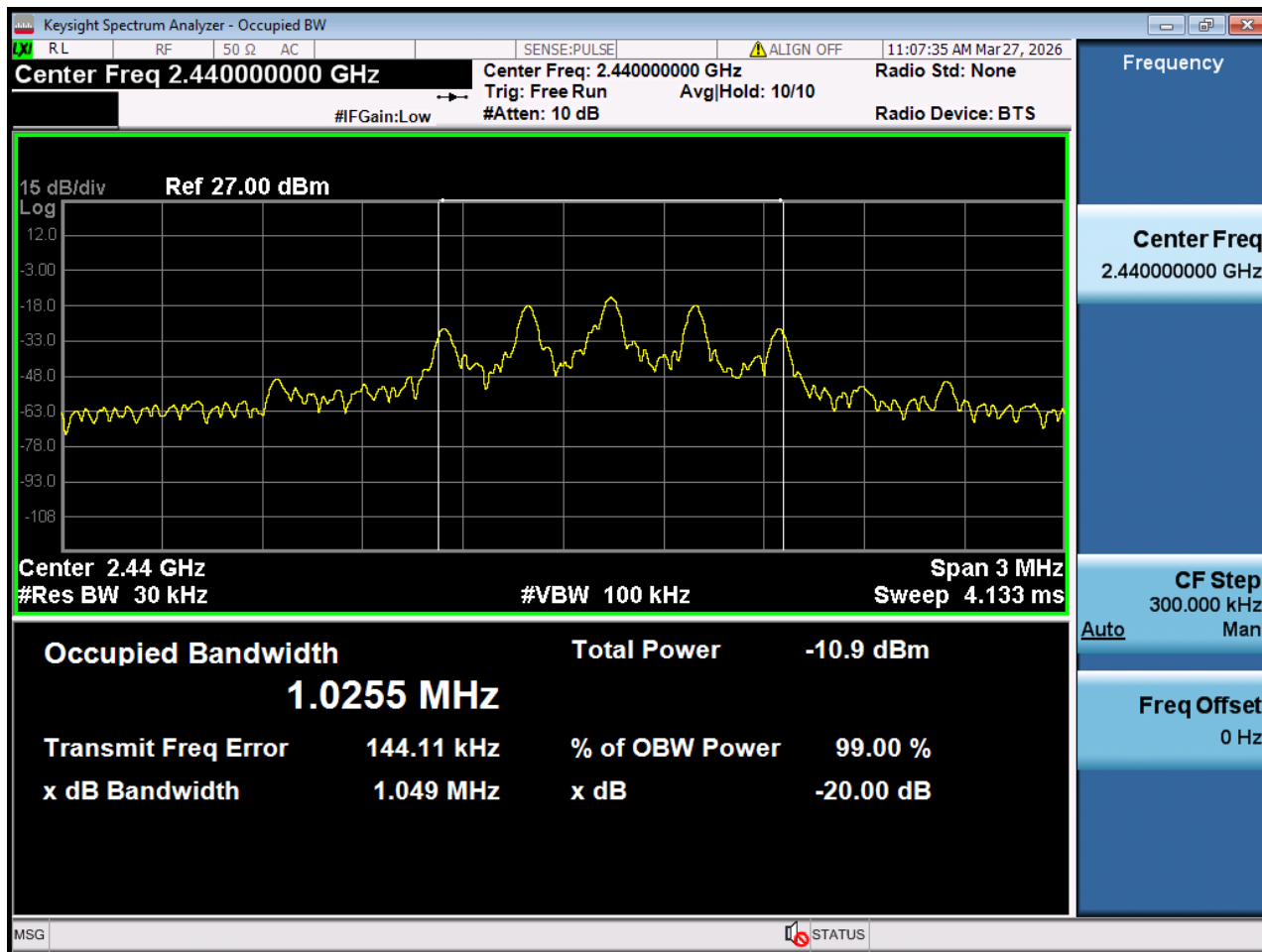


#### 7.5.4 Measurement Procedure and Data

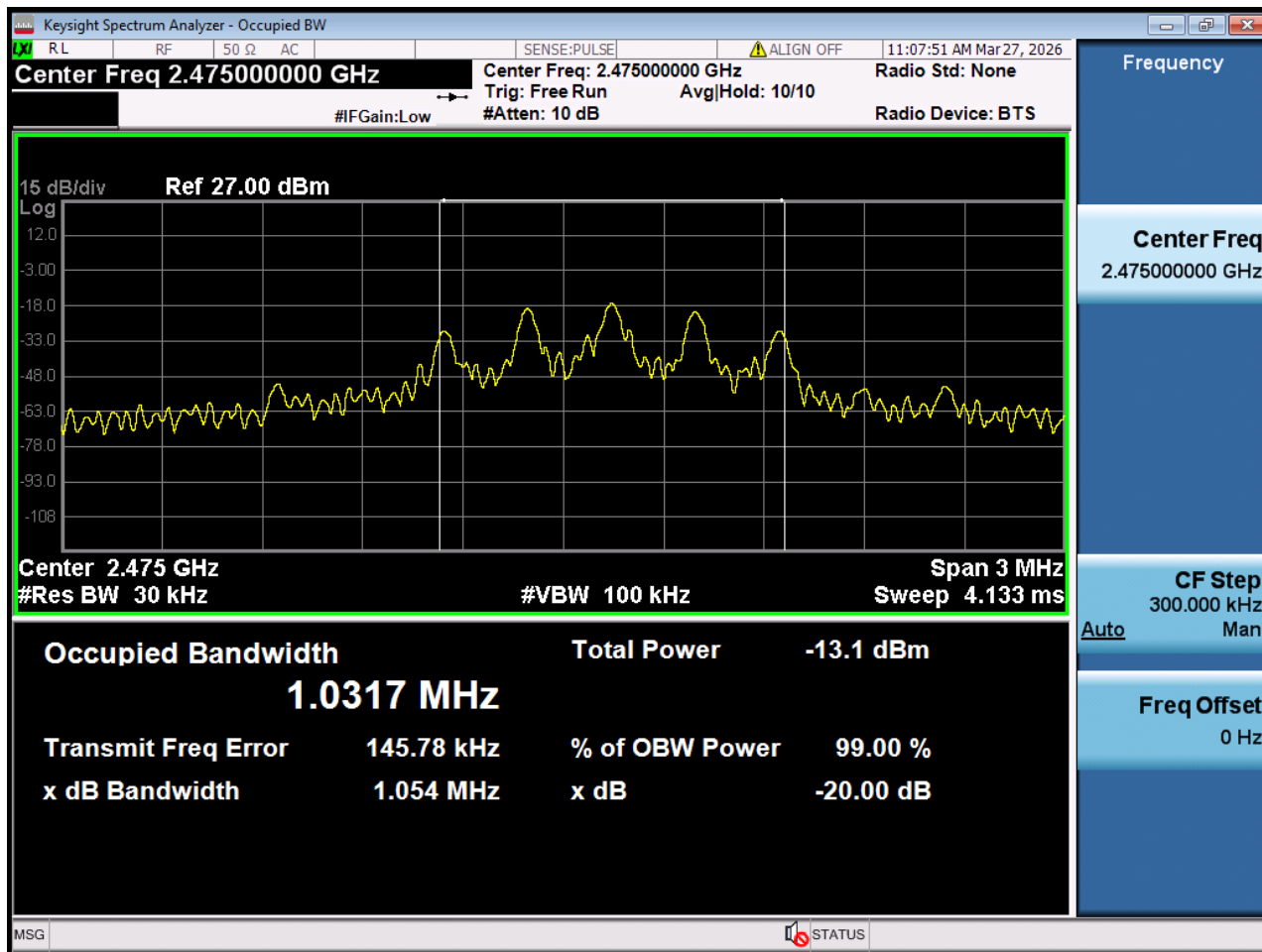
2405MHz



2440MHz



2475MHz



## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2603001051ET

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2603001051ET

- End of the Report -

