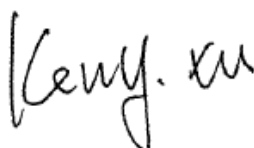


# TEST REPORT

**Application No.:** SZCR2604001465ET  
**Applicant:** Mattel Asia Pacific Sourcing Ltd.  
**Address of Applicant:** 11/F., South Tower, World Finance Centre, Harbour City, Tsimshatsui, Kowloon, HongKong  
**Manufacturer:** Mattel Asia Pacific Sourcing Ltd.  
**Address of Manufacturer:** 11/F., South Tower, World Finance Centre, Harbour City, Tsimshatsui, Kowloon, HongKong  
**Factory:** Jada (Fogang) Toys Co., Ltd.  
**Address of Factory:** No.56 Minlong South Road, Longshan Town, Fogang County, Qingyuan City, Guangdong Province, China  
**Equipment Under Test (EUT):**  
**EUT Name:** AG™ RC Sport Car – pink  
**Model No.:** JMY11  
**Trade Mark:** Mattel  
**FCC ID:** PIYJMY11-25A5R  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.249  
**Date of Receipt:** 2026-04-08  
**Date of Test:** 2026-04-14 to 2026-04-22  
**Date of Issue:** 2026-04-28

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

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

  
 Keny Xu  
 EMC Laboratory Manager



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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2026-04-28 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                            |  |  |
|--------------------------|--|----------------------------|--|--|
| Authorized for issue by: |  |                            |  |  |
|                          |  | Gebin Sun                  |  |  |
|                          |  | Gebin Sun/Project Engineer |  |  |
|                          |  | 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   |



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## 4 General Information

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

|                      |                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply:        | Rechargeable battery DC9.6V, 1300mAh for RX ,Charged by Adapter<br>Adapter Model:SAW20-050-3000UD<br>Input:AC100-240V 50/60Hz 0.6A<br>Output:DC5V 3000mA |
| Cable(s):            | USB cable:180cm unshielded                                                                                                                               |
| Operation Frequency: | 2420MHz to 2462MHz                                                                                                                                       |
| Modulation Type:     | GFSK                                                                                                                                                     |
| Number of Channels:  | 43                                                                                                                                                       |
| Channel Spacing:     | 1MHz                                                                                                                                                     |
| Antenna Type:        | Wire Antenna                                                                                                                                             |
| Antenna Gain:        | 0.52dBi                                                                                                                                                  |
| Test Software        | NA                                                                                                                                                       |
| Power setting        | Default                                                                                                                                                  |

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## 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.



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### 4.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

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 |
| 3m Fully-Anechoic Chamber                            | AUDIX           | N/A             | SEM001-02     | 2025-05-07 | 2028-05-06   |
| Signal Analyzer                                      | Rohde & Schwarz | FSV40           | SEM008-04     | 2026-02-02 | 2027-02-01   |
| Horn Antenna                                         | Rohde&Schwarz   | HF907           | SEM003-07     | 2025-07-22 | 2026-07-21   |
| Microwave system amplifier                           | Agilent         | 83017A          | SEM005-25     | 2025-09-10 | 2026-09-09   |
| Measurement Software                                 | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                                        | SGS             | N/A             | SEM026-01     | 2025-07-05 | 2026-07-04   |

| Restricted Band Around Fundamental Frequency |                 |                 |               |            |              |
|----------------------------------------------|-----------------|-----------------|---------------|------------|--------------|
| Equipment                                    | Manufacturer    | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Fully-Anechoic Chamber                    | AUDIX           | N/A             | SEM001-02     | 2025-05-07 | 2028-05-06   |
| Signal Analyzer                              | Rohde & Schwarz | FSV40           | SEM008-04     | 2026-02-02 | 2027-02-01   |
| Horn Antenna                                 | Rohde&Schwarz   | HF907           | SEM003-07     | 2025-07-22 | 2026-07-21   |
| Microwave system amplifier                   | Agilent         | 83017A          | SEM005-25     | 2025-09-10 | 2026-09-09   |
| Measurement Software                         | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                                | SGS             | N/A             | SEM026-01     | 2025-07-05 | 2026-07-04   |
| Broad-Band Horn Antenna                      | Schwarzbeck     | BBHA 9170       | SEM003-15     | 2025-07-22 | 2027-07-21   |
| Pre-Amplifier                                | TST PASS        | LNA180400G40    | SEM005-39     | 2025-05-22 | 2026-05-21   |

| 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   |



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SZEMC-TRF-01 Rev. A/2

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| Radiated Emissions Above 1GHz |                                    |                 |               |            |              |
|-------------------------------|------------------------------------|-----------------|---------------|------------|--------------|
| Equipment                     | Manufacturer                       | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Fully-Anechoic Chamber     | AUDIX                              | N/A             | SEM001-02     | 2025-05-07 | 2028-05-06   |
| Signal Analyzer               | Rohde & Schwarz                    | FSV40           | SEM008-04     | 2026-02-02 | 2027-02-01   |
| Horn Antenna                  | Rohde&Schwarz                      | HF907           | SEM003-07     | 2025-07-22 | 2026-07-21   |
| Microwave system amplifier    | Agilent                            | 83017A          | SEM005-25     | 2025-09-10 | 2026-09-09   |
| Measurement Software          | AUDIX                              | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                 | SGS                                | N/A             | SEM026-01     | 2025-07-05 | 2026-07-04   |
| Broad-Band Horn Antenna       | Schwarzbeck                        | BBHA 9170       | SEM003-15     | 2025-07-22 | 2027-07-21   |
| Pre-Amplifier                 | Compliance Directions Systems Inc. | PAP-2640-50     | SEM005-08     | 2026-03-21 | 2027-03-20   |

| 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

Standard 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.52dBi

Antenna location: Refer to internal photo.



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## 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: Tommy Luo

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: 21.3 °C Humidity: 50.2 % RH Atmospheric Pressure: 1015 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. |



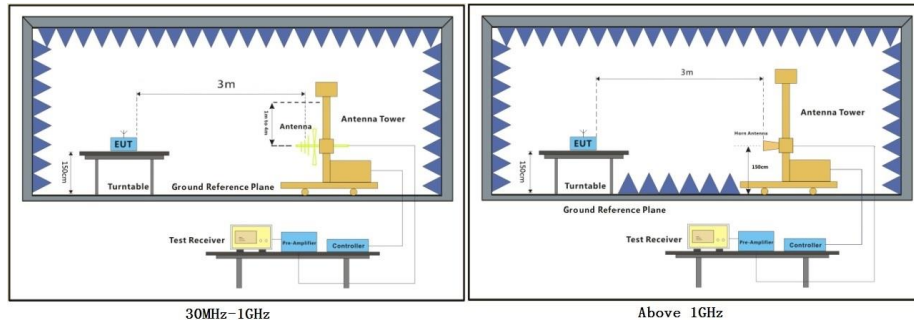
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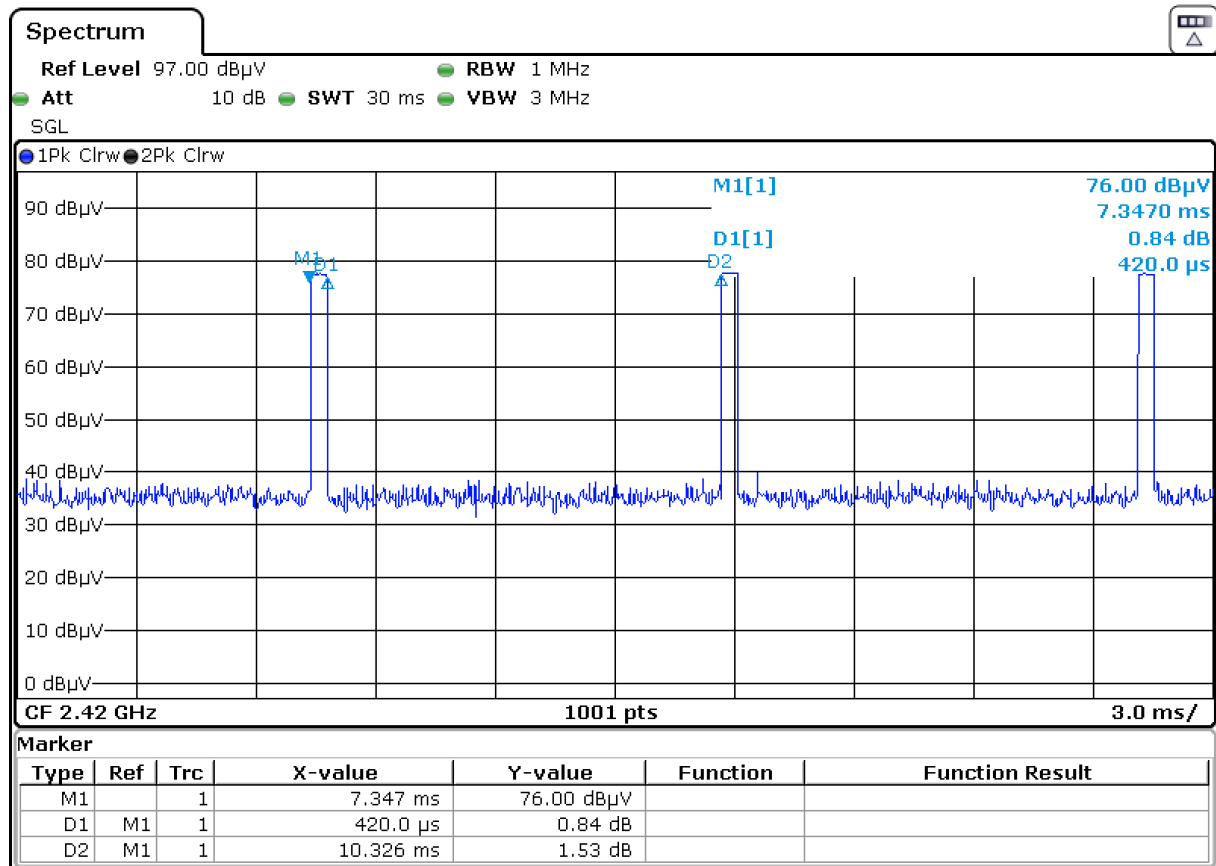
### 7.1.3 Test Setup Diagram



### 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 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

Test Mode: Duty; Channel:Low



Duty Factor:

| On time(ms) | T(ms)  | Duty cycle(%) | Duty factor |
|-------------|--------|---------------|-------------|
| 0.42        | 10.326 | 0.0407        | -27.81      |

Average Level =Peak Level + Duty Factor



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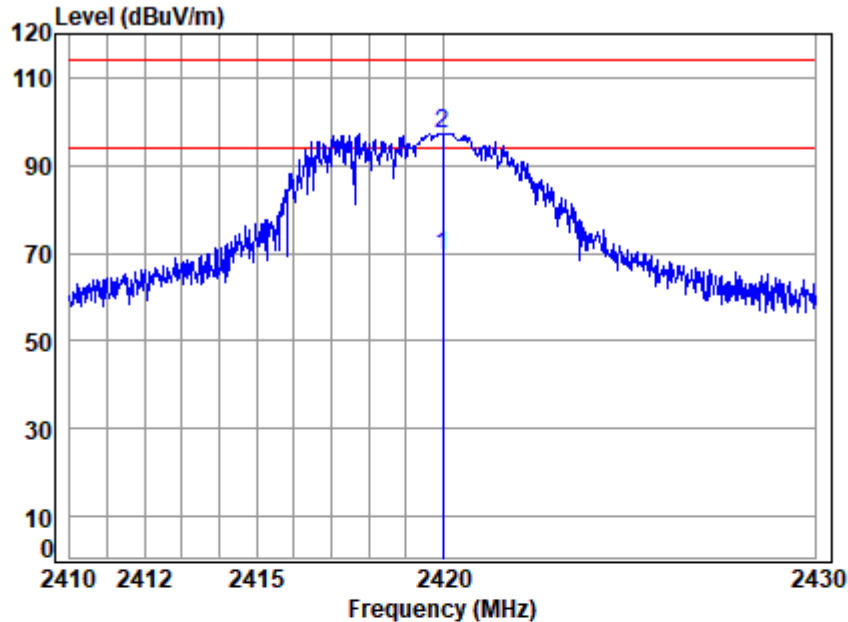
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2.4G\_TX\_CH\_L\_Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01463ET/01465ET  
Mode : 2420 Field strength

|     | 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 q | 2420.000 | 16.18      | 28.72      | 32.76         | 57.33      | 69.47  | 94.00      | -24.53     | Average | 0.00       |
| 2 p | 2420.000 | 16.18      | 28.72      | 32.76         | 85.14      | 97.28  | 114.00     | -16.72     | Peak    | 0.00       |



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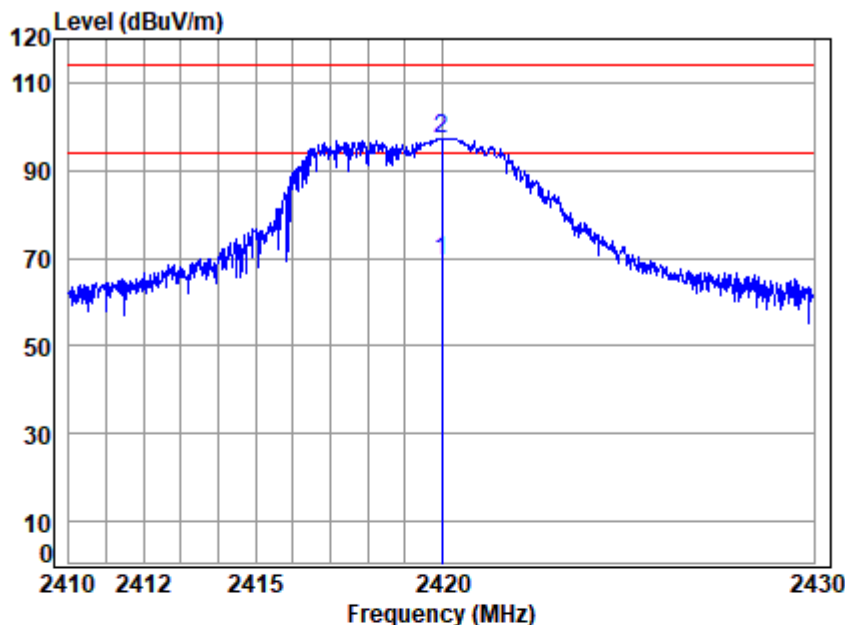
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### 2.4G\_TX\_CH\_L\_Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 01463ET/01465ET

Mode : 2420 Field strength

|     | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|-----|----------|------------|------------|---------------------|------------|--------|------------|------------|---------|------------|
|     | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 q | 2420.000 | 16.18      | 28.72      | 32.76               | 57.31      | 69.45  | 94.00      | -24.55     | Average | 0.00       |
| 2 p | 2420.000 | 16.18      | 28.72      | 32.76               | 85.12      | 97.26  | 114.00     | -16.74     | Peak    | 0.00       |



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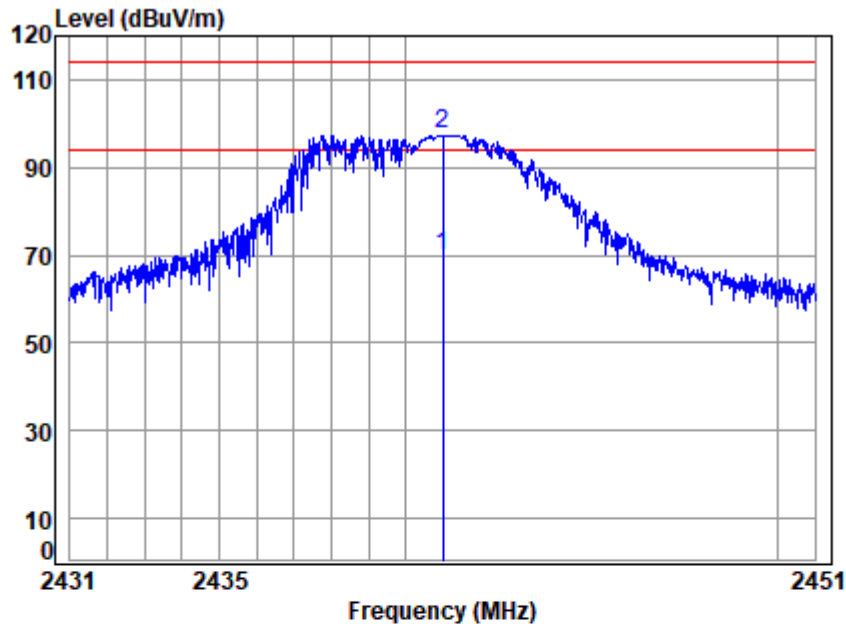
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2.4G\_TX\_CH\_M\_Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01463ET/01465ET  
Mode : 2441 Field strength

|     | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|-----|----------|------------|------------|---------------------|------------|--------|------------|------------|---------|------------|
|     | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 q | 2441.000 | 16.21      | 28.85      | 32.75               | 57.33      | 69.64  | 94.00      | -24.36     | Average | 0.00       |
| 2 p | 2441.000 | 16.21      | 28.85      | 32.75               | 85.14      | 97.45  | 114.00     | -16.55     | Peak    | 0.00       |



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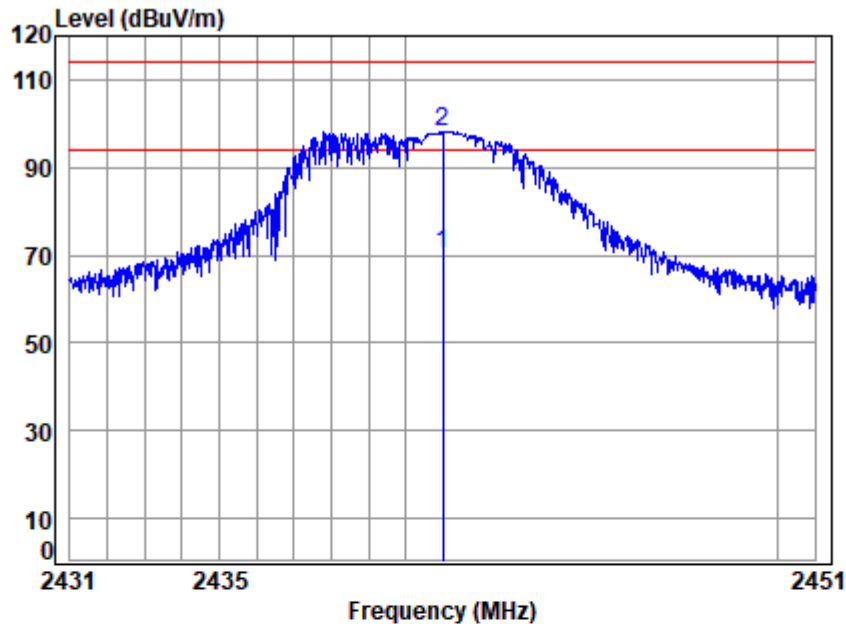
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2.4G\_TX\_CH\_M\_Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01463ET/01465ET  
Mode : 2441 Field strength

|     | 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 q | 2441.000 | 16.21      | 28.85      | 32.75         | 57.78      | 70.09  | 94.00      | -23.91     | Average | 0.00       |
| 2 p | 2441.000 | 16.21      | 28.85      | 32.75         | 85.59      | 97.90  | 114.00     | -16.10     | Peak    | 0.00       |



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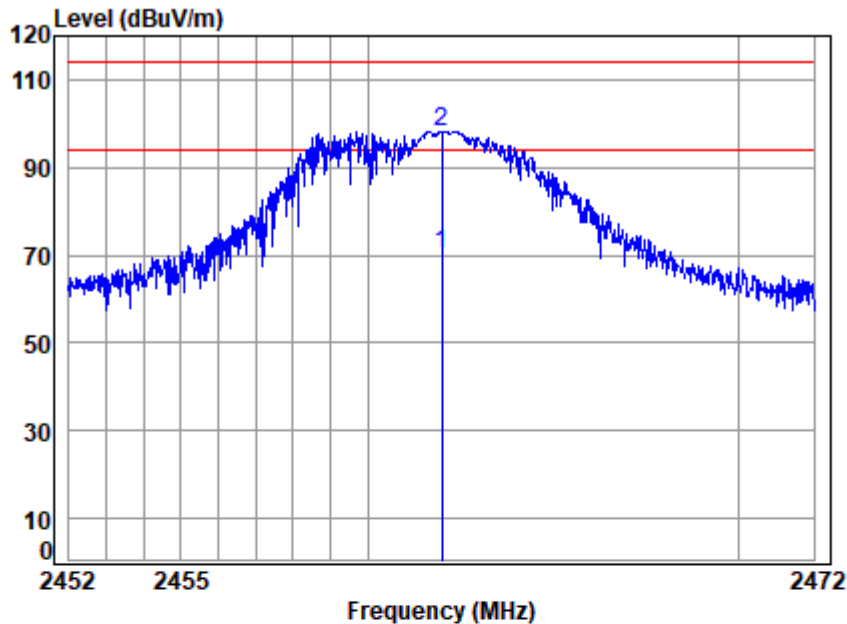
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2.4G\_TX\_CH\_H\_Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01463ET/01465ET  
Mode : 2462 Field strength

|     | 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 q | 2462.000 | 16.24      | 28.92      | 32.74         | 57.94      | 70.36  | 94.00      | -23.64     | Average | 0.00       |
| 2 p | 2462.000 | 16.24      | 28.92      | 32.74         | 85.75      | 98.17  | 114.00     | -15.83     | Peak    | 0.00       |



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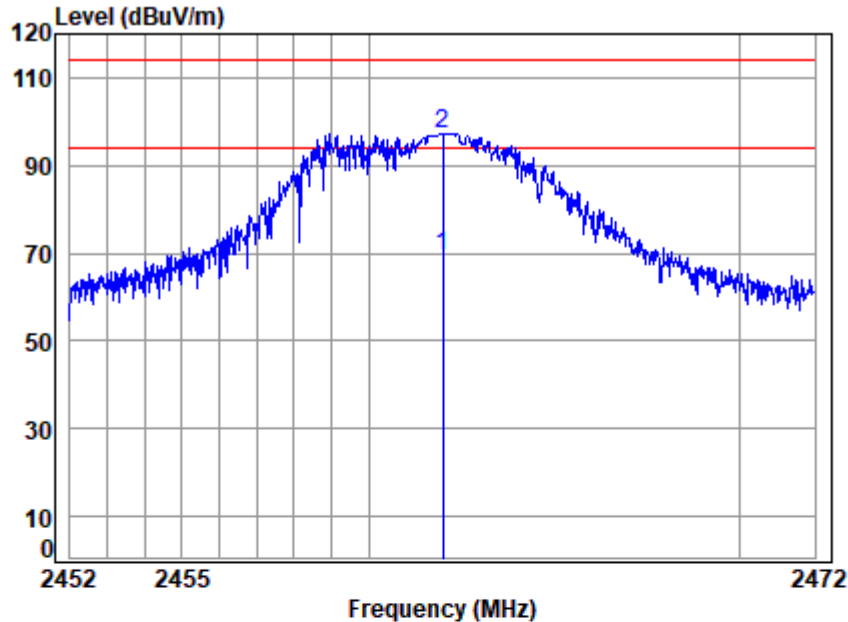
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2.4G\_TX\_CH\_H\_Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01463ET/01465ET  
Mode : 2462 Field strength

|     | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark  | Aux Factor |
|-----|----------|------------|------------|---------------------|------------|--------|------------|------------|---------|------------|
|     | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |         | dB         |
| 1 q | 2462.000 | 16.24      | 28.92      | 32.74               | 56.87      | 69.29  | 94.00      | -24.71     | Average | 0.00       |
| 2 p | 2462.000 | 16.24      | 28.92      | 32.74               | 84.68      | 97.10  | 114.00     | -16.90     | Peak    | 0.00       |



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## 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: Tommy Luo

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: 21.3 °C Humidity: 50.2 % RH Atmospheric Pressure: 1015 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. |



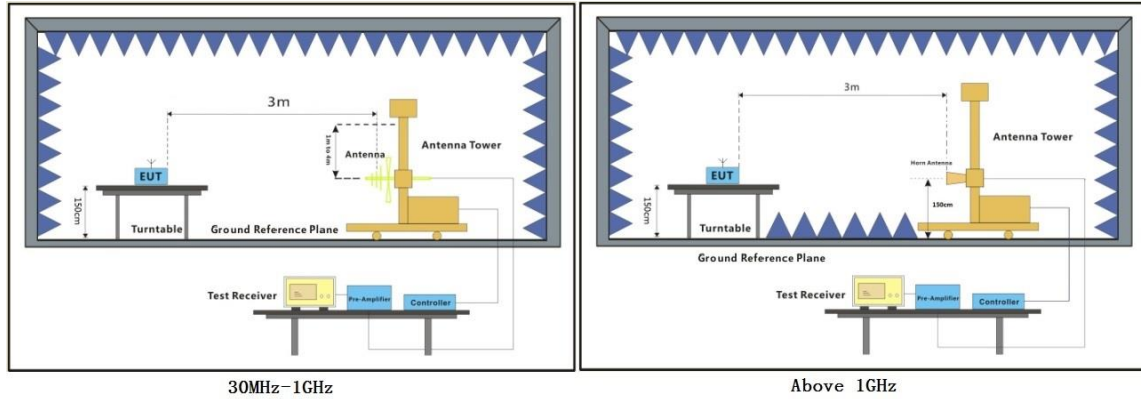
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### 7.2.3 Test Setup Diagram



## 7.2.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- 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 (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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. 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).

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. 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.



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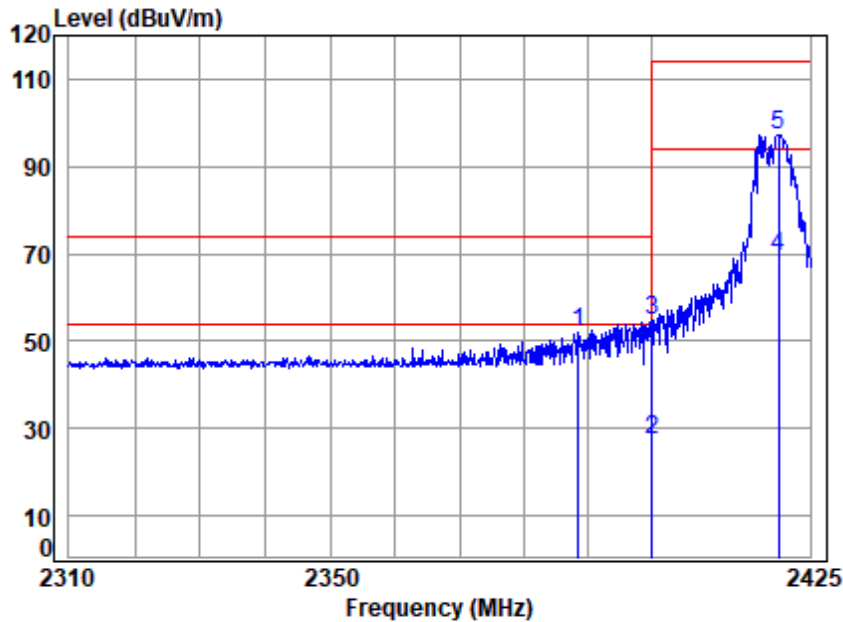
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2.4G\_TX\_CH\_L\_Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01643ET/01645ET  
Mode : 2420 Band edge

|     | 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   | 2388.519 | 16.13      | 28.58      | 32.78         | 39.99      | 51.92  | 74.00      | -22.08     | Peak    | 0.00       |
| 2   | 2400.000 | 16.15      | 28.60      | 32.78         | 15.19      | 27.16  | 54.00      | -26.84     | Average | 0.00       |
| 3   | 2400.000 | 16.15      | 28.60      | 32.78         | 43.00      | 54.97  | 74.00      | -19.03     | Peak    | 0.00       |
| 4 q | 2420.000 | 16.18      | 28.72      | 32.77         | 57.34      | 69.47  | 94.00      | -24.53     | Average | 0.00       |
| 5 p | 2420.000 | 16.18      | 28.72      | 32.76         | 85.14      | 97.28  | 114.00     | -16.72     | Peak    | 0.00       |



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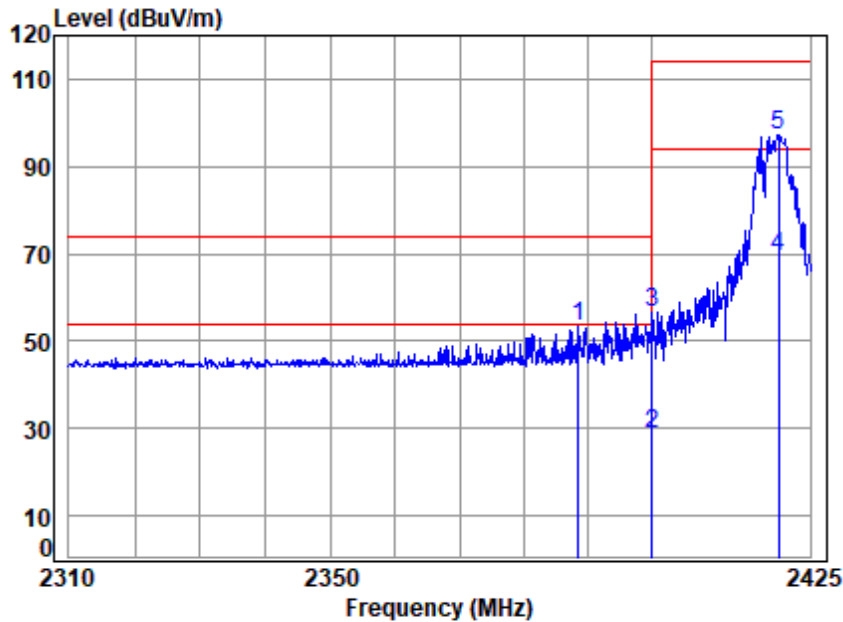
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### 2.4G\_TX\_CH\_L\_Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01643ET/01645ET  
Mode : 2420 Band edge

|     | 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   | 2388.403 | 16.13      | 28.58      | 32.78         | 41.56      | 53.49  | 74.00      | -20.51     | Peak    | 0.00       |
| 2   | 2400.000 | 16.15      | 28.60      | 32.78         | 16.78      | 28.75  | 54.00      | -25.25     | Average | 0.00       |
| 3   | 2400.000 | 16.15      | 28.60      | 32.78         | 44.59      | 56.56  | 74.00      | -17.44     | Peak    | 0.00       |
| 4 q | 2420.000 | 16.18      | 28.72      | 32.76         | 57.31      | 69.45  | 94.00      | -24.55     | Average | 0.00       |
| 5 p | 2420.000 | 16.18      | 28.72      | 32.76         | 85.12      | 97.26  | 114.00     | -16.74     | Peak    | 0.00       |



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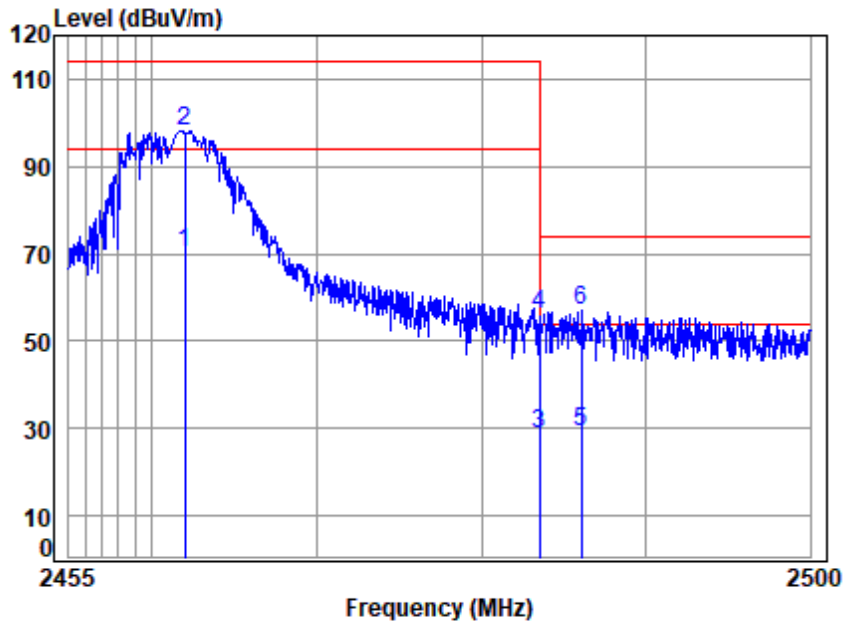
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2.4G\_TX\_CH\_H\_Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01643ET/01645ET  
Mode : 2462 Band edge

|   |            | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |         | Aux    |
|---|------------|-------|--------|--------|-------|--------|--------|--------|---------|--------|
|   | Freq       | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark  | Factor |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |         | dB     |
| 1 | q 2462.000 | 16.24 | 28.92  | 32.74  | 57.94 | 70.36  | 94.00  | -23.64 | Average | 0.00   |
| 2 | p 2462.000 | 16.24 | 28.92  | 32.74  | 85.75 | 98.17  | 114.00 | -15.83 | Peak    | 0.00   |
| 3 | 2483.500   | 16.28 | 28.97  | 32.73  | 16.01 | 28.53  | 54.00  | -25.47 | Average | 0.00   |
| 4 | 2483.500   | 16.28 | 28.97  | 32.73  | 43.82 | 56.34  | 74.00  | -17.66 | Peak    | 0.00   |
| 5 | 2486.053   | 16.28 | 28.97  | 32.73  | 16.86 | 29.38  | 54.00  | -24.62 | Average | 0.00   |
| 6 | 2486.053   | 16.28 | 28.97  | 32.73  | 44.67 | 57.19  | 74.00  | -16.81 | Peak    | 0.00   |



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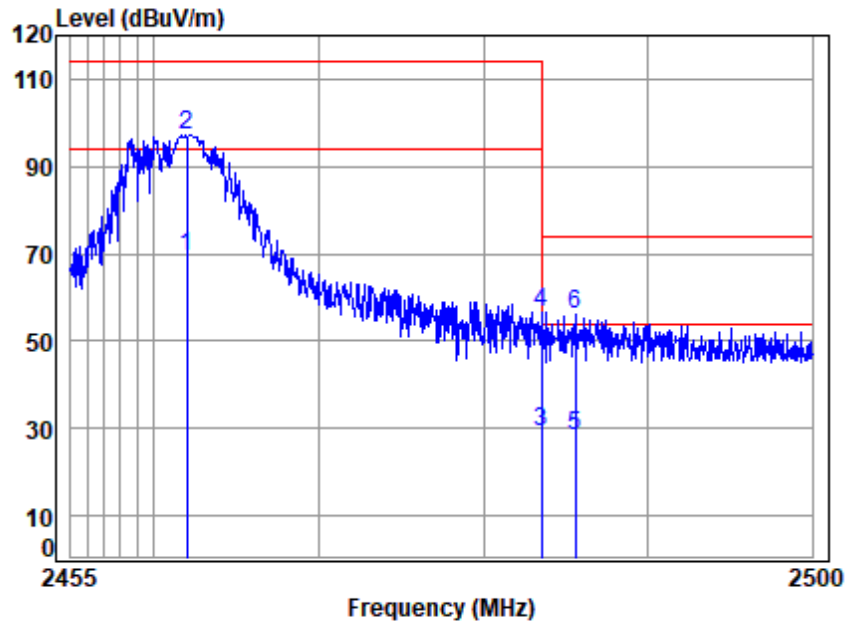
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### 2.4G\_TX\_CH\_H\_Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01643ET/01645ET  
Mode : 2462 Band edge

|   |            | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |         | Aux    |
|---|------------|-------|--------|--------|-------|--------|--------|--------|---------|--------|
|   | Freq       | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark  | Factor |
|   | MHz        | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |         | dB     |
| 1 | q 2462.000 | 16.24 | 28.92  | 32.74  | 56.84 | 69.26  | 94.00  | -24.74 | Average | 0.00   |
| 2 | p 2462.000 | 16.24 | 28.92  | 32.74  | 84.68 | 97.10  | 114.00 | -16.90 | Peak    | 0.00   |
| 3 | 2483.500   | 16.28 | 28.97  | 32.73  | 16.47 | 28.99  | 54.00  | -25.01 | Average | 0.00   |
| 4 | 2483.500   | 16.28 | 28.97  | 32.73  | 44.28 | 56.80  | 74.00  | -17.20 | Peak    | 0.00   |
| 5 | 2485.556   | 16.28 | 28.97  | 32.73  | 15.61 | 28.13  | 54.00  | -25.87 | Average | 0.00   |
| 6 | 2485.556   | 16.28 | 28.97  | 32.73  | 43.42 | 55.94  | 74.00  | -18.06 | Peak    | 0.00   |

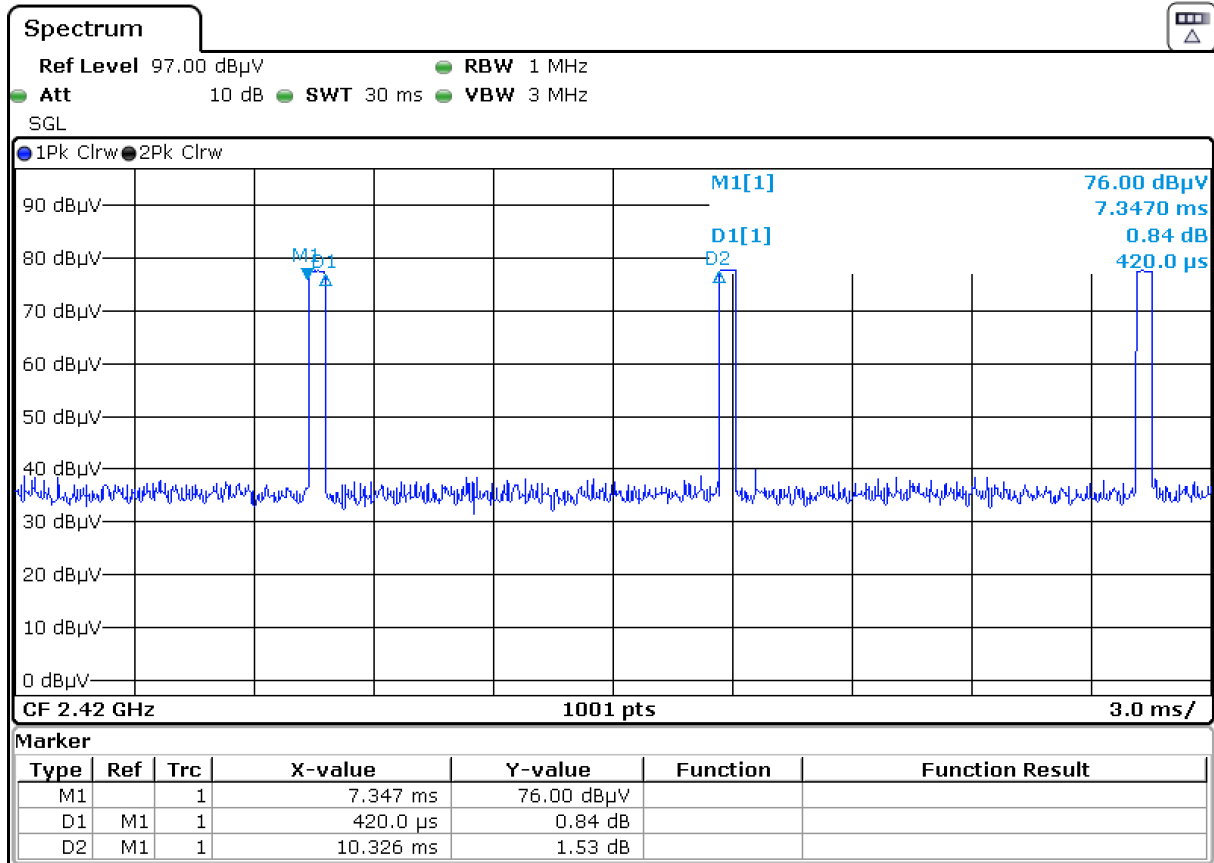


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Test Mode: Duty; Channel:Low



2.4G Band edge and RSE TX Worse

| On time(ms) | T(ms)  | Duty cycle(%) | Duty factor |
|-------------|--------|---------------|-------------|
| 0.42        | 10.326 | 0.0407        | -27.81      |

Average Level =Peak Level + Duty Factor



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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260400146502

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## 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: 23.4 °C Humidity: 42.5 % 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. |



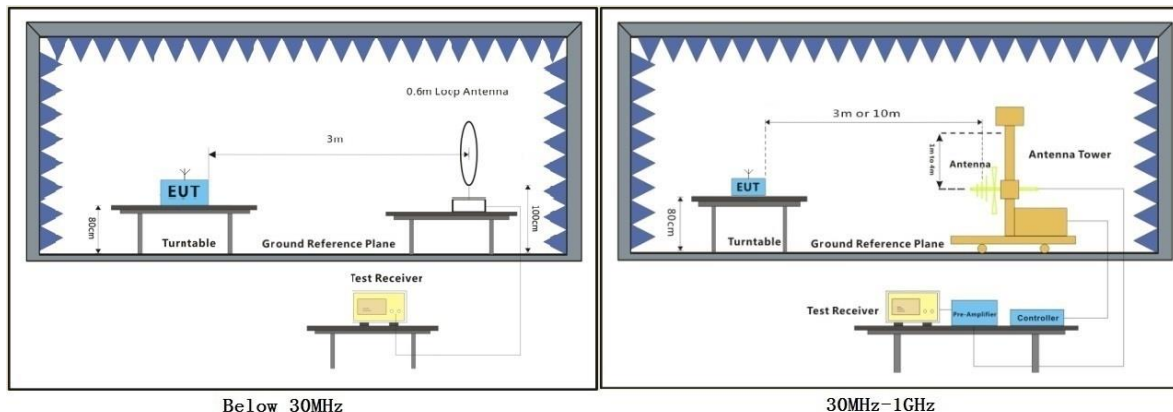
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### 7.3.3 Test Setup Diagram



### 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 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 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.



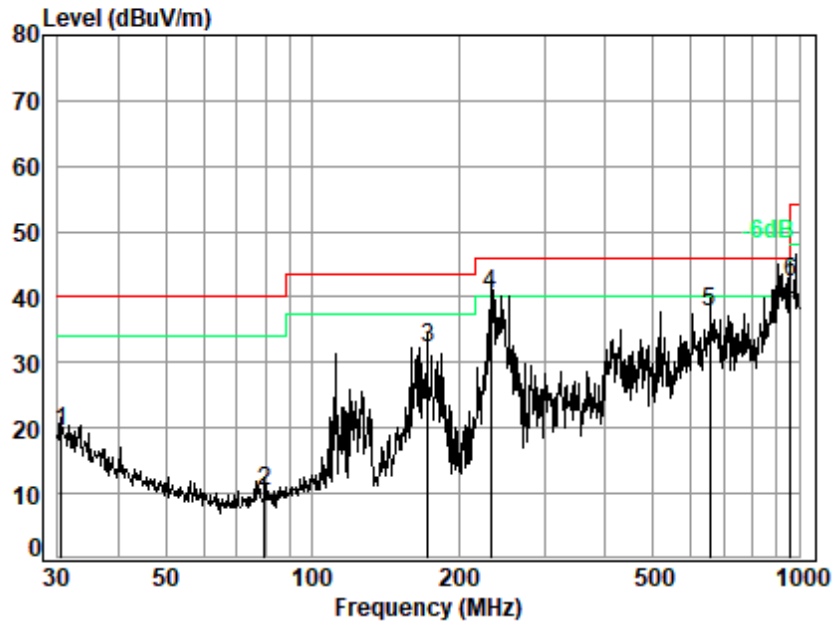
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Test Mode: 00; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 01463ET/01465ET  
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   | 30.531  | 21.18  | 0.74  | 27.65  | 25.28 | 19.55  | 40.00  | -20.45 QP    |
| 2   | 79.800  | 10.68  | 1.10  | 27.61  | 26.24 | 10.41  | 40.00  | -29.59 QP    |
| 3   | 172.599 | 14.22  | 1.60  | 27.76  | 44.32 | 32.38  | 43.50  | -11.12 QP    |
| 4   | 232.532 | 16.96  | 1.85  | 27.69  | 49.42 | 40.54  | 46.00  | -5.46 QP     |
| 5   | 656.530 | 24.70  | 3.28  | 27.94  | 37.72 | 37.76  | 46.00  | -8.24 QP     |
| 6 q | 958.794 | 29.31  | 4.09  | 26.63  | 35.50 | 42.27  | 46.00  | -3.73 QP     |



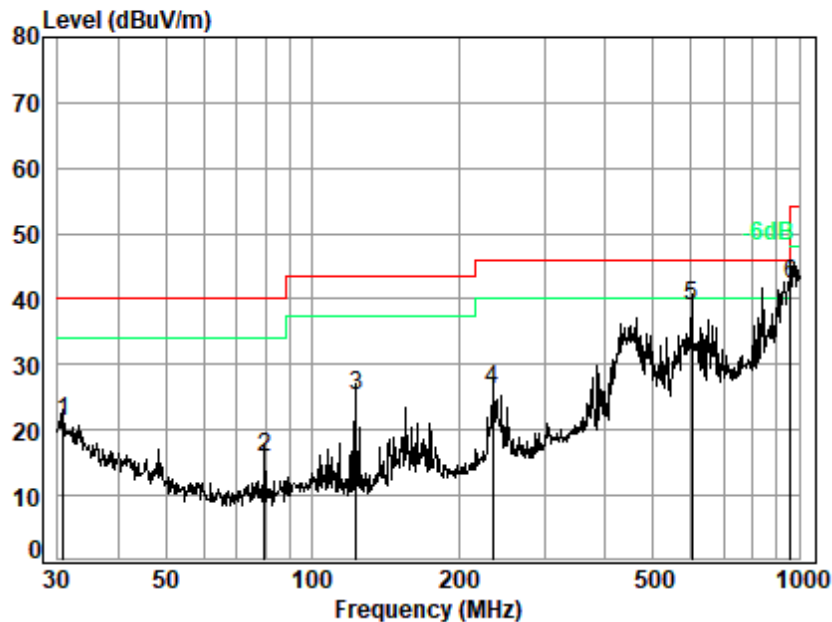
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Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 01463ET/01465ET

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   | 30.853  | 21.01  | 0.75  | 27.65  | 27.14 | 21.25  | 40.00  | -18.75 QP    |
| 2   | 79.800  | 10.68  | 1.10  | 27.61  | 31.60 | 15.77  | 40.00  | -24.23 QP    |
| 3   | 122.834 | 11.42  | 1.36  | 27.66  | 40.00 | 25.12  | 43.50  | -18.38 QP    |
| 4   | 234.991 | 17.02  | 1.86  | 27.68  | 34.83 | 26.03  | 46.00  | -19.97 QP    |
| 5   | 601.427 | 24.00  | 3.10  | 28.10  | 39.84 | 38.84  | 46.00  | -7.16 QP     |
| 6 q | 958.794 | 29.31  | 4.09  | 26.63  | 35.59 | 42.36  | 46.00  | -3.64 QP     |



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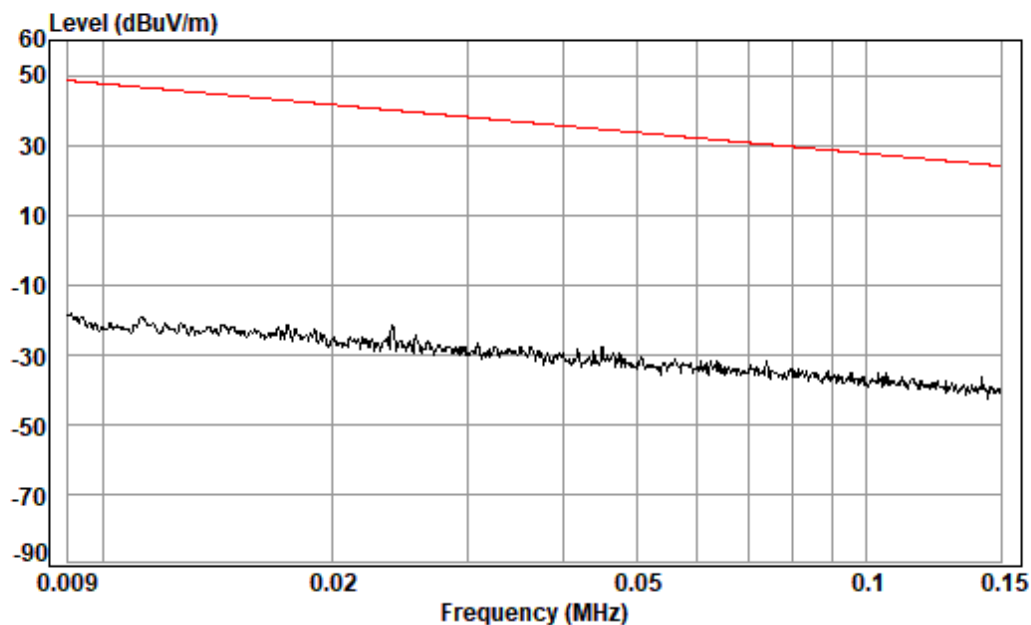
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Test Mode: 00; Polarity: Coplanar



Condition: 3m

Job No. : 01465AT

Test Mode: 00

: coplanar



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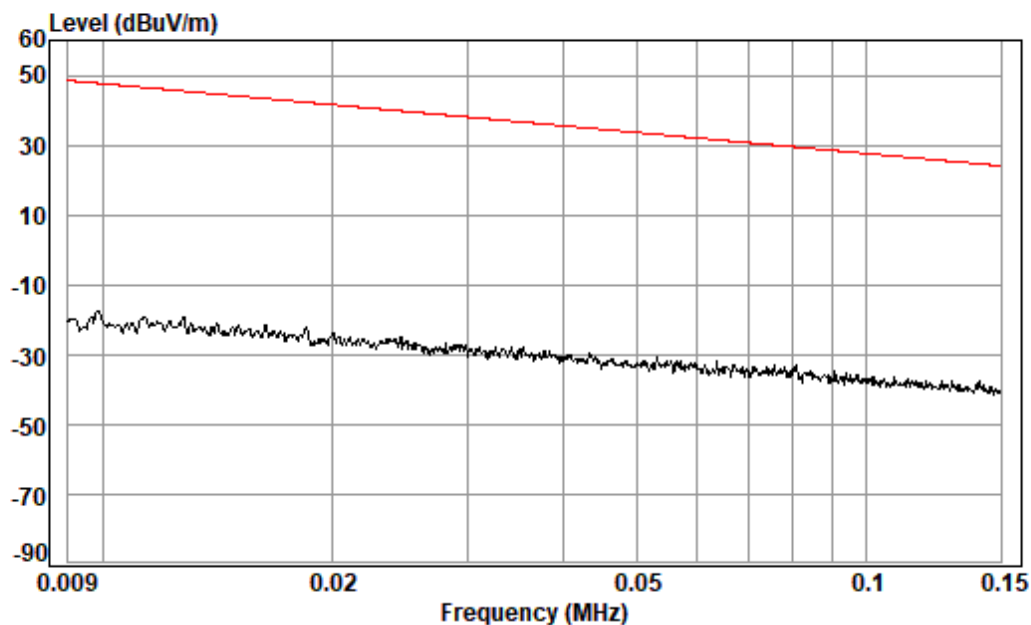
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Test Mode: 00; Polarity: Coaxial



Condition: 3m

Job No. : 01465AT

Test Mode: 00

: coaxial



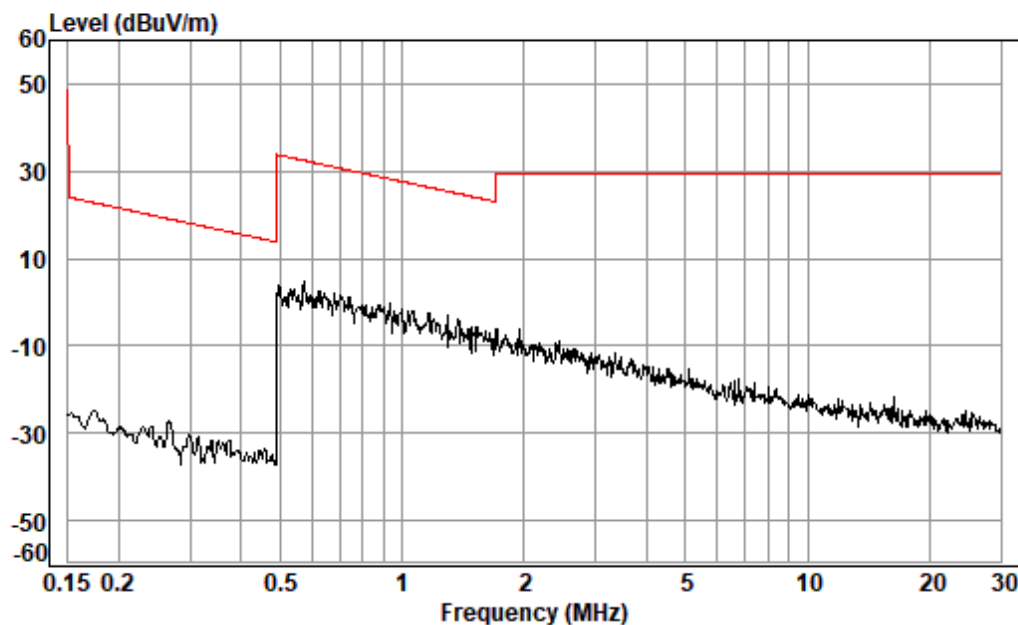
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Test Mode: 00; Polarity: Coaxial



Condition: 3m

Job No. : 01465AT

Test Mode: 00

: coaxial



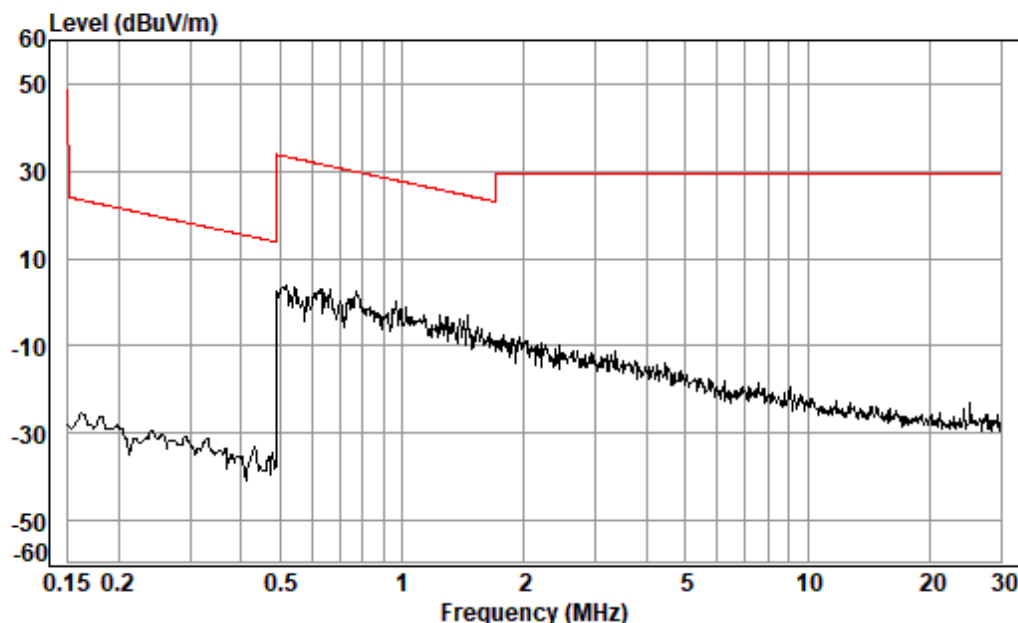
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Test Mode: 00; Polarity: Coplanar



Condition: 3m

Job No. : 01465AT

Test Mode: 00

: coplanar



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## 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: Tommy Luo

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: 21.3 °C Humidity: 50.2 % RH Atmospheric Pressure: 1015 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. |

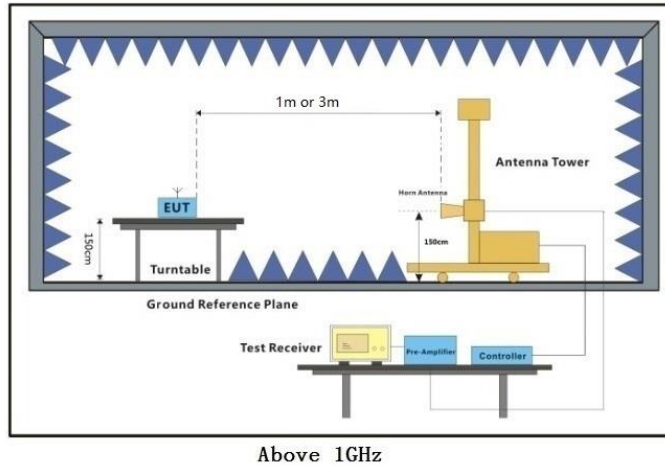


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### 7.4.3 Test Setup Diagram



## 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.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



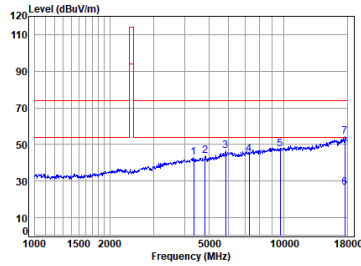
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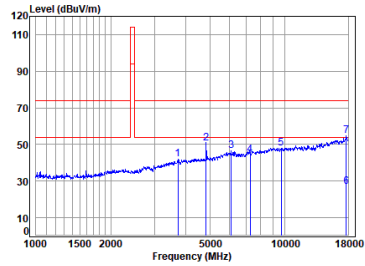
2.4G\_TX\_CH\_L\_Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01643ET/01645ET  
Mode : 2420 TX RSE

| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark  | Aux Factor |
|--------------|------------|------------|---------------|------------|--------|--------|------------|---------|------------|
| MHz          | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |         | dB         |
| 1 4354.454   | 7.09       | 33.20      | 54.26         | 56.76      | 42.79  | 74.00  | -31.21     | Peak    | 0.00       |
| 2 4840.000   | 7.44       | 33.96      | 54.21         | 56.69      | 43.88  | 74.00  | -30.12     | Peak    | 0.00       |
| 3 5847.517   | 8.70       | 35.20      | 53.26         | 56.00      | 46.64  | 74.00  | -27.36     | Peak    | 0.00       |
| 4 7260.000   | 8.40       | 35.90      | 53.17         | 53.58      | 44.79  | 74.00  | -29.21     | Peak    | 0.00       |
| 5 9680.000   | 10.72      | 37.74      | 53.32         | 52.40      | 47.54  | 74.00  | -26.46     | Peak    | 0.00       |
| 6 q17639.470 | 11.28      | 43.56      | 52.58         | 24.06      | 26.32  | 54.00  | -27.68     | Average | 0.00       |
| 7 p17639.470 | 11.28      | 43.56      | 52.58         | 51.87      | 54.13  | 74.00  | -19.87     | Peak    | 0.00       |

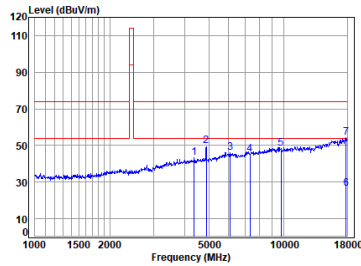
2.4G\_TX\_CH\_L\_Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01643ET/01645ET  
Mode : 2420 TX RSE

| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark  | Aux Factor |
|--------------|------------|------------|---------------|------------|--------|--------|------------|---------|------------|
| MHz          | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |         | dB         |
| 1 3725.195   | 6.52       | 32.75      | 54.47         | 57.36      | 42.16  | 74.00  | -31.84     | Peak    | 0.00       |
| 2 4840.000   | 7.44       | 33.96      | 54.21         | 63.51      | 50.70  | 74.00  | -23.30     | Peak    | 0.00       |
| 3 6088.991   | 8.92       | 35.67      | 53.11         | 55.04      | 46.52  | 74.00  | -27.48     | Peak    | 0.00       |
| 4 7260.000   | 8.40       | 35.90      | 53.17         | 53.22      | 44.43  | 74.00  | -29.57     | Peak    | 0.00       |
| 5 9680.000   | 10.72      | 37.74      | 53.32         | 52.76      | 47.90  | 74.00  | -26.10     | Peak    | 0.00       |
| 6 q17690.530 | 11.32      | 44.01      | 52.55         | 24.33      | 27.11  | 54.00  | -26.89     | Average | 0.00       |
| 7 p17690.530 | 11.32      | 44.01      | 52.55         | 52.14      | 54.92  | 74.00  | -19.08     | Peak    | 0.00       |

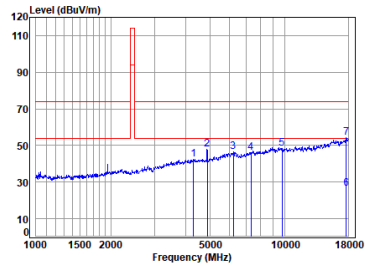
2.4G\_TX\_CH\_M\_Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01643ET/01645ET  
Mode : 2441 TX RSE

| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark  | Aux Factor |
|--------------|------------|------------|---------------|------------|--------|--------|------------|---------|------------|
| MHz          | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |         | dB         |
| 1 4367.058   | 7.10       | 33.20      | 54.26         | 57.25      | 43.29  | 74.00  | -30.71     | Peak    | 0.00       |
| 2 4882.000   | 7.47       | 34.13      | 54.21         | 62.33      | 49.72  | 74.00  | -24.28     | Peak    | 0.00       |
| 3 6106.616   | 8.92       | 35.79      | 53.11         | 54.52      | 46.12  | 74.00  | -27.88     | Peak    | 0.00       |
| 4 7323.000   | 8.46       | 36.07      | 53.17         | 53.82      | 45.18  | 74.00  | -28.82     | Peak    | 0.00       |
| 5 9764.000   | 10.69      | 37.58      | 53.29         | 53.22      | 48.20  | 74.00  | -25.80     | Peak    | 0.00       |
| 6 q17793.090 | 11.38      | 43.45      | 52.50         | 24.18      | 26.51  | 54.00  | -27.49     | Average | 0.00       |
| 7 p17793.090 | 11.38      | 43.45      | 52.50         | 51.99      | 54.32  | 74.00  | -19.68     | Peak    | 0.00       |

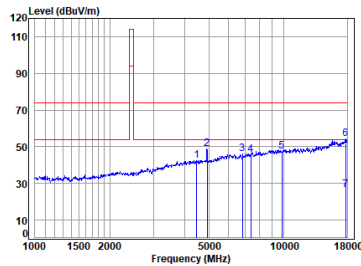
2.4G\_TX\_CH\_M\_Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01643ET/01645ET  
Mode : 2441 TX RSE

| Freq         | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark  | Aux Factor |
|--------------|------------|------------|---------------|------------|--------|--------|------------|---------|------------|
| MHz          | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |         | dB         |
| 1 4304.400   | 7.07       | 33.29      | 54.27         | 56.33      | 42.42  | 74.00  | -31.58     | Peak    | 0.00       |
| 2 4882.000   | 7.47       | 34.13      | 54.21         | 60.58      | 47.97  | 74.00  | -26.03     | Peak    | 0.00       |
| 3 6213.441   | 8.91       | 35.30      | 53.12         | 55.24      | 46.33  | 74.00  | -27.67     | Peak    | 0.00       |
| 4 7323.000   | 8.46       | 36.07      | 53.17         | 54.51      | 45.87  | 74.00  | -28.13     | Peak    | 0.00       |
| 5 9764.000   | 10.69      | 37.58      | 53.29         | 53.29      | 48.27  | 74.00  | -25.73     | Peak    | 0.00       |
| 6 q17690.530 | 11.32      | 44.01      | 52.55         | 23.68      | 26.46  | 54.00  | -27.54     | Average | 0.00       |
| 7 p17690.530 | 11.32      | 44.01      | 52.55         | 51.49      | 54.27  | 74.00  | -19.73     | Peak    | 0.00       |

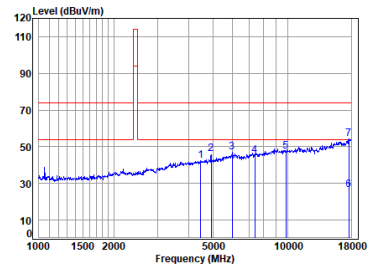
2.4G\_TX\_CH\_H\_Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01643ET/01645ET  
Mode : 2462 TX RSE

|   | 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 | 4469.214   | 7.15       | 33.02      | 54.25         | 56.46      | 42.38  | 74.00  | -31.62 | Peak    | 0.00       |
| 2 | 4924.000   | 7.50       | 34.06      | 54.21         | 61.58      | 48.93  | 74.00  | -25.07 | Peak    | 0.00       |
| 3 | 6835.278   | 8.66       | 35.71      | 53.18         | 55.00      | 46.19  | 74.00  | -27.81 | Peak    | 0.00       |
| 4 | 7386.000   | 8.44       | 36.16      | 53.16         | 54.03      | 45.47  | 74.00  | -28.53 | Peak    | 0.00       |
| 5 | 9848.000   | 10.66      | 37.51      | 53.26         | 52.38      | 47.29  | 74.00  | -26.71 | Peak    | 0.00       |
| 6 | p17741.740 | 11.35      | 43.81      | 52.53         | 51.71      | 54.34  | 74.00  | -19.66 | Peak    | 0.00       |
| 7 | q17741.740 | 11.35      | 43.81      | 52.53         | 23.90      | 26.53  | 54.00  | -27.47 | Average | 0.00       |

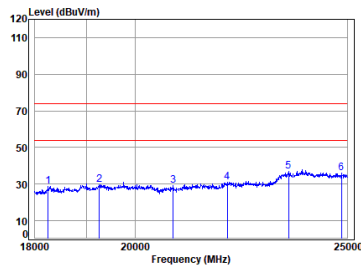
2.4G\_TX\_CH\_H\_Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01643ET/01645ET  
Mode : 2462 TX RSE

|   | 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 | 4469.214   | 7.15       | 33.02      | 54.25         | 56.63      | 42.55  | 74.00  | -31.45 | Peak    | 0.00       |
| 2 | 4924.000   | 7.50       | 34.06      | 54.21         | 58.56      | 45.91  | 74.00  | -28.09 | Peak    | 0.00       |
| 3 | 5984.395   | 8.91       | 35.27      | 53.12         | 55.83      | 46.89  | 74.00  | -27.11 | Peak    | 0.00       |
| 4 | 7386.000   | 8.44       | 36.16      | 53.16         | 53.92      | 45.36  | 74.00  | -28.64 | Peak    | 0.00       |
| 5 | 9848.000   | 10.66      | 37.51      | 53.26         | 52.52      | 47.43  | 74.00  | -26.57 | Peak    | 0.00       |
| 6 | q17639.470 | 11.28      | 43.56      | 52.58         | 24.06      | 26.32  | 54.00  | -27.68 | Average | 0.00       |
| 7 | p17639.470 | 11.28      | 43.56      | 52.58         | 51.87      | 54.13  | 74.00  | -19.87 | Peak    | 0.00       |

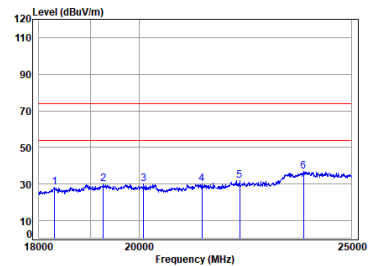
2.4G\_TX\_CH\_M\_Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01643ET/01645ET  
Mode : 2441 TX RSE

|   | 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 | 18256.070  | 5.01       | 36.50      | 56.44         | 53.15      | 28.68  | 74.00  | -45.32 | Peak   | -9.54      |
| 2 | 19266.500  | 5.95       | 37.00      | 56.62         | 52.16      | 29.75  | 74.00  | -44.25 | Peak   | -9.54      |
| 3 | 20819.690  | 6.02       | 37.86      | 55.53         | 50.38      | 29.19  | 74.00  | -44.81 | Peak   | -9.54      |
| 4 | 22037.160  | 5.99       | 37.59      | 54.26         | 51.21      | 30.99  | 74.00  | -43.01 | Peak   | -9.54      |
| 5 | p23502.740 | 6.76       | 38.60      | 50.30         | 51.49      | 37.01  | 74.00  | -36.99 | Peak   | -9.54      |
| 6 | 24852.610  | 6.84       | 39.28      | 51.88         | 51.19      | 35.89  | 74.00  | -38.11 | Peak   | -9.54      |

2.4G\_TX\_CH\_M\_Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01643ET/01645ET  
Mode : 2441 TX RSE

|   | 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 | 18304.110  | 5.08       | 36.54      | 56.37         | 52.43      | 28.14  | 74.00  | -45.86 | Peak   | -9.54      |
| 2 | 19260.250  | 5.95       | 37.00      | 56.61         | 52.72      | 30.32  | 74.00  | -43.68 | Peak   | -9.54      |
| 3 | 20809.990  | 5.85       | 38.01      | 56.62         | 52.39      | 30.09  | 74.00  | -43.91 | Peak   | -9.54      |
| 4 | 21367.070  | 6.02       | 37.24      | 54.88         | 51.20      | 30.04  | 74.00  | -43.96 | Peak   | -9.54      |
| 5 | 22233.490  | 6.15       | 37.51      | 54.07         | 51.94      | 31.99  | 74.00  | -42.01 | Peak   | -9.54      |
| 6 | p23774.530 | 6.77       | 38.91      | 50.36         | 51.24      | 37.02  | 74.00  | -36.98 | 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

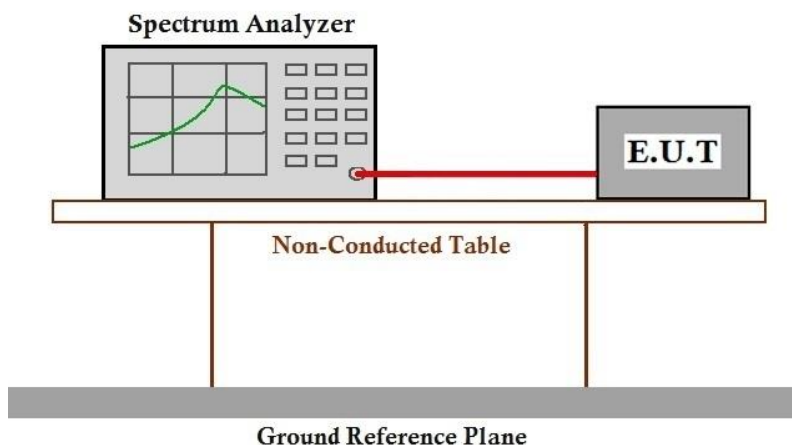
#### 7.5.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.2 °C Humidity: 66.1 % 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



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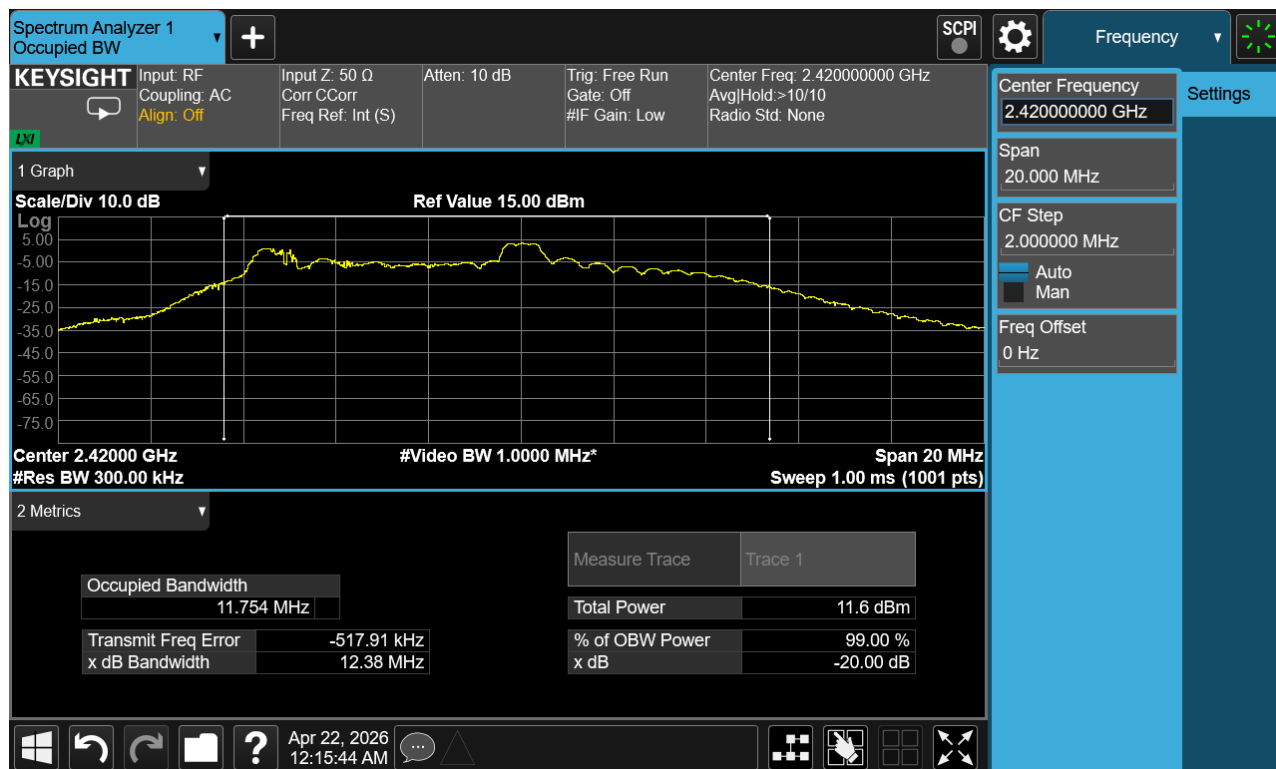
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SZEMC-TRF-01 Rev. A/2

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20db



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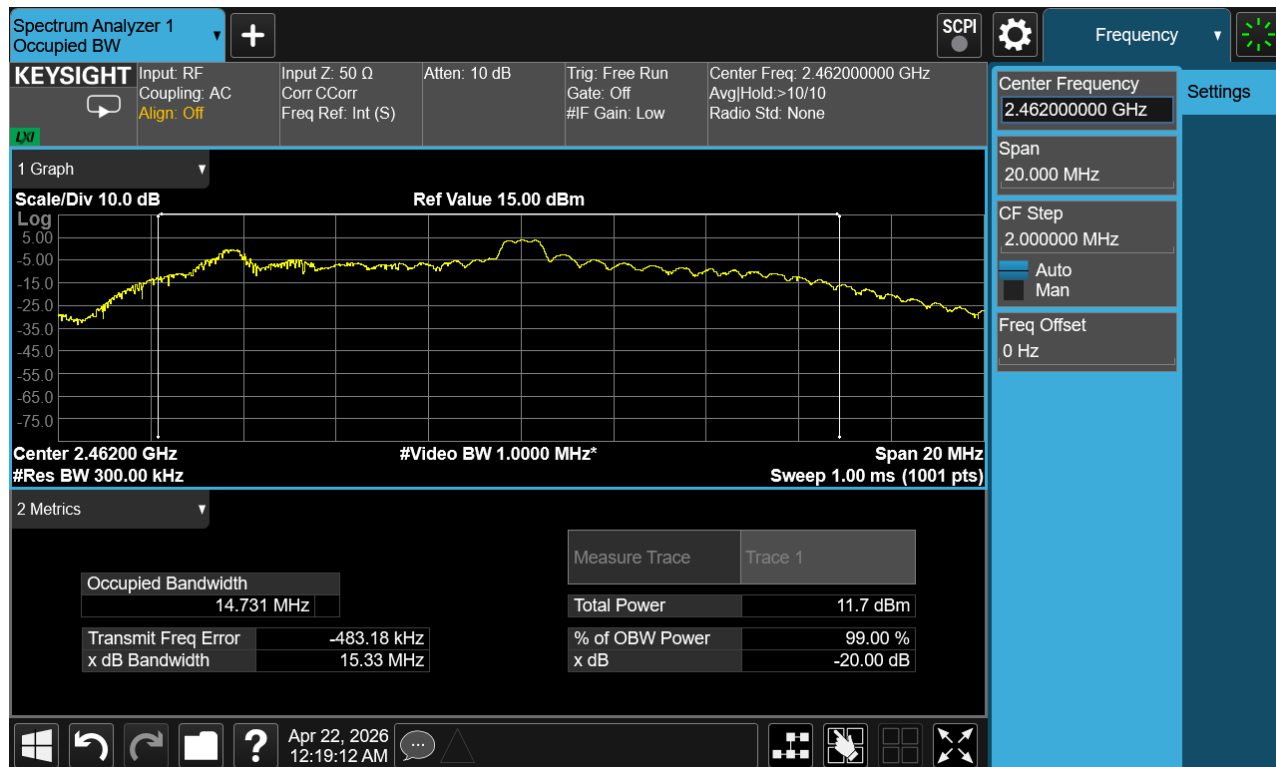
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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260400146502

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## 8 Test Setup Photo

Refer to Setup Photo for SZCR2604001465ET

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2604001465ET

- End of the Report -



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