

## TEST REPORT

|           |                                  |
|-----------|----------------------------------|
| Applicant | MINDSCOPE PRODUCTS INC.          |
| Address   | P.O.BOX9525,GLENDALE,CA91226,USA |

|                                     |                                                         |
|-------------------------------------|---------------------------------------------------------|
| Manufacturer or Supplier            | MINDSCOPE PRODUCTS INC.                                 |
| Address                             | P.O.BOX9525, GLENDALE, CA91226, USA                     |
| Product                             | TURBO TWISTER CATAPULT R/C STUNT ACTION JUMPING VEHICLE |
| Brand Name                          | N/A                                                     |
| Model                               | TTJUMP                                                  |
| Additional Model & Model Difference | N/A                                                     |
| Date of tests                       | Jul. 11, 2017 ~ Aug. 09, 2017                           |

the tests have been carried out according to the requirements of the following standard:

☒ FCC Part 15, Subpart C, Section 15.235

**CONCLUSION:** The submitted sample was found to COMPLY with the test requirement

|                                                                                     |                                                                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Tested by Andy Zhu<br>Project Engineer / EMC Department                             | Approved by Glyn He<br>Supervisor/ EMC Department                                                           |
|  | <br>Date: Aug. 14, 2017 |

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

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## RELEASE CONTROL RECORD

| ISSUE NO.      | REASON FOR CHANGE | DATE ISSUED   |
|----------------|-------------------|---------------|
| RF170711N043-1 | Original release  | Aug. 14, 2017 |



## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.235) |                     |        |                              |
|-----------------------------------------------------------|---------------------|--------|------------------------------|
| STANDARD SECTION                                          | TEST TYPE AND LIMIT | RESULT | REMARK                       |
| §15.207 (a)                                               | Conducted Emission  | N/A    | EUT is powered by battery    |
| §15.209<br>§15.235(a)                                     | Radiated Emission   | PASS   | Compliant                    |
| §15.235(b)                                                | Measured Bandwidth  | PASS   | Compliant                    |
| §15.203                                                   | Antenna Requirement | PASS   | No antenna connector is used |

## 2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT        | FREQUENCY     | UNCERTAINTY |
|--------------------|---------------|-------------|
| Radiated emissions | 9KHz ~ 30MHz  | 2.90dB      |
|                    | 30MHz ~ 1GHz  | 3.83dB      |
|                    | 1GHz ~ 18GHz  | 4.93dB      |
|                    | 18GHz ~ 40GHz | 4.80dB      |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .



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### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| PRODUCT             | TURBO TWISTER CATAPULT R/C STUNT ACTION JUMPING VEHICLE |
| MODEL NO.           | TTJUMP                                                  |
| FCC ID              | YKGTJJUMPF                                              |
| NOMINAL VOLTAGE     | DC 3V(1.5V*AA*2) From Battery                           |
| MODULATION TYPE     | ASK                                                     |
| OPERATING FREQUENCY | 49.86MHz                                                |
| NUMBER OF CHANNEL   | 1                                                       |
| ANTENNA TYPE        | Spring Antenna with 0dBi gain                           |
| I/O PORTS           | Refer to user's manual                                  |
| CABLE SUPPLIED      | N/A                                                     |

#### NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 170711N043-1) for detailed product photo.



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### 3.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following mode.

| FREQUENCY | TEST MODE    |
|-----------|--------------|
| 49.86MHz  | Transmitting |

### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart C, 15.235**

**ANSI C63.10-2013**

All test items have been performed and recorded as per the above standards. This is a single application for certification of a transmitter. The receiver for this transmitter is authorized by Declaration of Conformity procedure

### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit without any other necessary accessories or support units.



## 4 TEST TYPES AND RESULTS

### 4.1 RADIATED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

| FREQUENCIES<br>(MHz) | FIELD STRENGTH<br>(microvolts/meter) | MEASUREMENT DISTANCE<br>(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                                |
| Above 960            | 500                                  | 3                                |

According to §15.235(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Frequency Range of<br>Fundamental<br>[MHz] | Field Strength of<br>Fundamental Emission<br>[Peak]<br>[μV/m] | Field Strength of<br>Fundamental Emission<br>[Average]<br>[μV/m] |
|--------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|
| 49.82 – 49.90                              | 100,000 (100 dBμV/m)                                          | 10,000 (80 dBμV/m)                                               |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



#### 4.1.2 TEST INSTRUMENTS

| Equipment                           | Manufacturer  | Model No.                | Serial No.  | Last Cal.   | Next Cal.   |
|-------------------------------------|---------------|--------------------------|-------------|-------------|-------------|
| EMI Test Receiver                   | Rohde&Schwarz | ESU40                    | 100449      | Mar. 12,17  | Mar. 11,18  |
| Signal and Spectrum Analyzer        | Rohde&Schwarz | FSV7                     | 102331      | Nov. 04,16  | Nov. 03,17  |
| Bilog Antenna (30MHz~1GHz)          | Teseq         | CBL 6111D                | 30643       | Jul. 14, 17 | Jul. 13, 18 |
| Loop antenna (9KHz ~30MHz)          | Daze          | ZN30900A                 | 0708        | Mar. 12,17  | Mar. 11,18  |
| Horn Antenna (1GHz -18GHz)          | ETS -Lindgren | 3117                     | 00062558    | May 18,17   | May 17,18   |
| GPS Generator+ Antenna              | TOJOIN        | GNSS-5000A               | E1-010119   | Aug. 08, 17 | Aug. 07, 18 |
| 3m Semi-anechoic Chamber            | ETS-LINDGREN  | 9m*6m*6m                 | NSEMC003    | Mar. 12,17  | Mar. 11,18  |
| Test Software                       | ADT           | ADT_Radiated_V7.6.15.9.2 | N/A         | N/A         | N/A         |
| Horn Antenna (18GHz-40GHz)          | SCHWARZBECK   | BBHA 9170                | BBHA9170242 | Mar. 15,17  | Mar. 14,18  |
| Amplifier (9kHz-1GHz)               | SONOMA        | 310D                     | 186955      | Mar. 04,17  | Mar. 03, 18 |
| Broadband Preamplifier (1GHz~18GHz) | SCHWARZBECK   | BBV9718                  | 305         | Mar. 09,17  | Mar. 08,18  |
| Pre-Amplifier (18GHz-40GHz)         | EMCI          | EMC 184045               | 980102      | Nov. 04,16  | Nov. 03,17  |
| Test Software                       | ADT           | ADT_Radiated_V7.6.15.9.2 | N/A         | N/A         | N/A         |
| BLUETOOTH TESTER                    | Rohde&Schwarz | CBT32                    | 100811      | Aug. 08,17  | Aug. 07,18  |

**NOTE:**

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 749762.



#### 4.1.3 TEST PROCEDURES

The basic test procedure was in accordance with ANSI C63.10 (section 6).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- d. 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 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level.

**.NOTE:**

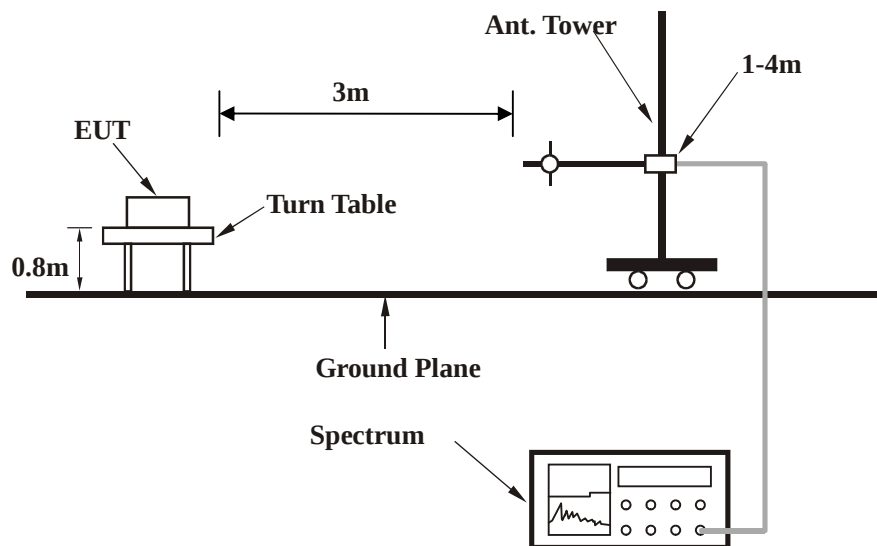
1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
4. Margin value = Emission level – Limit value.
5. Fundamental AV value =PK Emission +AV factor.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



#### 4.1.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.6 EUT OPERATING CONDITIONS

- Turned on the power of equipment.
- Hold down the TX of button, and then the EUT was operating.
- EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



#### 4.1.7 TEST RESULTS

##### FIELD STRENGTH OF FUNDAMENTAL

| No. | Freq.<br>(MHz) | Antenna<br>Polarization | Correction<br>Factor<br>(dB/m) | Raw<br>Value<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) |
|-----|----------------|-------------------------|--------------------------------|------------------------|-------------------------------|-------------------|----------------|
| *   | 48.86(PK)      | V                       | -21.63                         | 93.70                  | 72.07                         | 100               | -27.93         |
| *   | 48.86(AV)      | V                       | -6.06                          | -                      | 66.01                         | 80                | -13.99         |
| *   | 48.86(PK)      | H                       | -21.63                         | 95.56                  | 73.93                         | 100               | -26.07         |
| *   | 48.86(AV)      | H                       | -6.06                          | -                      | 67.87                         | 80                | -12.13         |

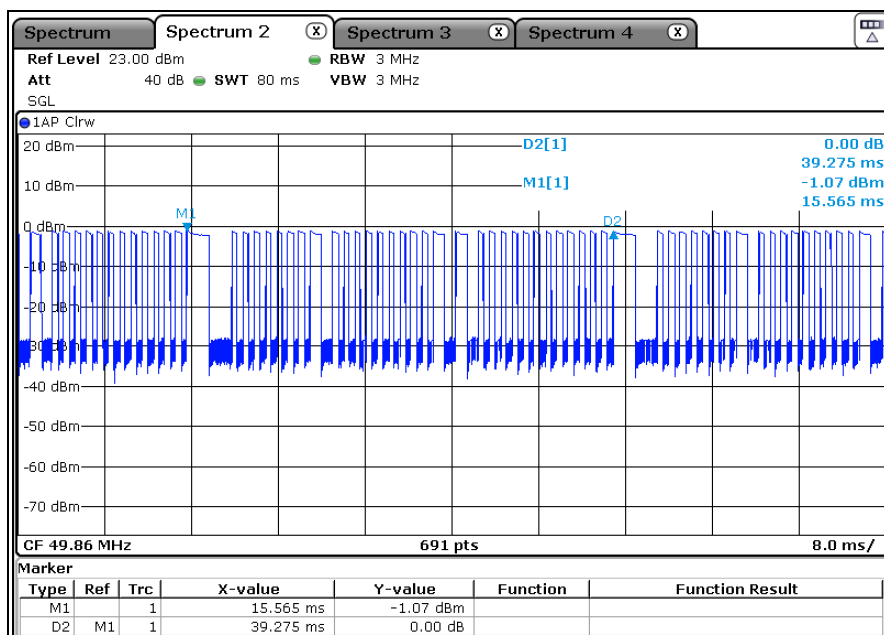
- REMARKS:** 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).  
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).  
3. The emission levels of other frequencies were less than 20dB margin against the limit.  
4. Margin value = Emission level – Limit value.  
5. “\*”: Fundamental frequency.  
6. The average value of fundamental frequency is: Average value = Peak value +AV factor, where the AV factor is calculated from following formula: AV factor=20 log (Duty cycle) = 20 log (49.8%) = -6.06dB.

$T_p = 39.275\text{ms}$

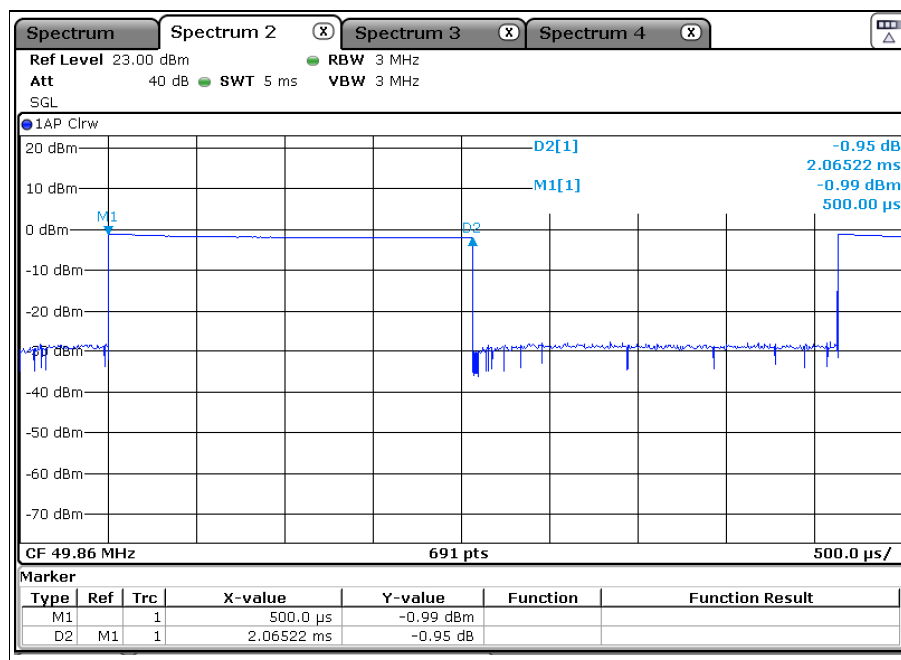
$\text{Ton} = \text{Ton1} * \text{Number} + \text{Ton2} * \text{Number} + \text{Ton3} * \text{Number} = 2.06522 * 1 + 1.02899 * 3 + 0.51449 * 28 = 19.55791\text{ms}$

$\text{Duty Cycle} = \text{Ton} / T_p * 100\% = 19.55791 / 39.275 = 49.8\%$

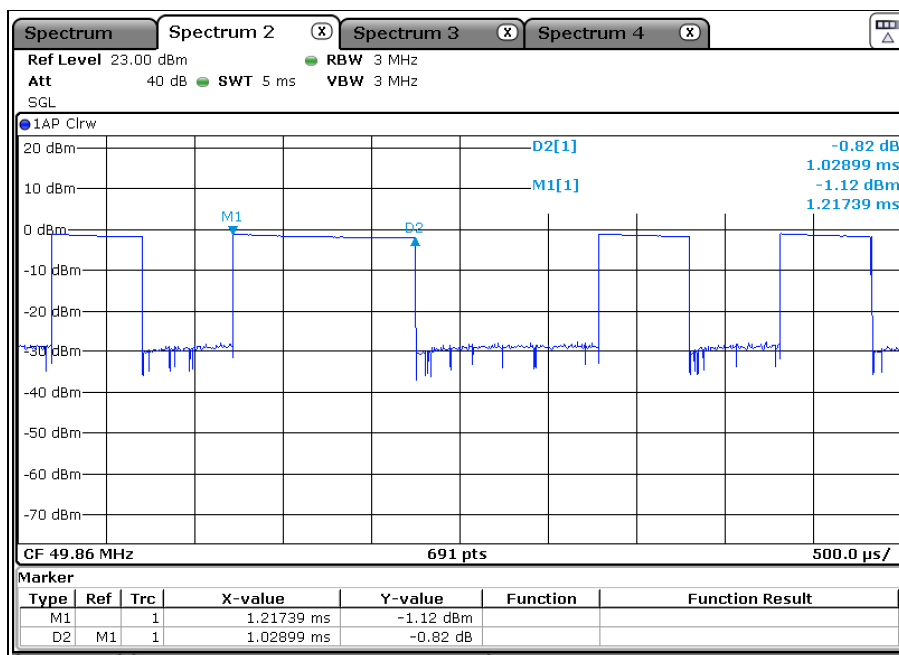
$T_p = 46.2609\text{ms}$



Ton1=2.06522ms

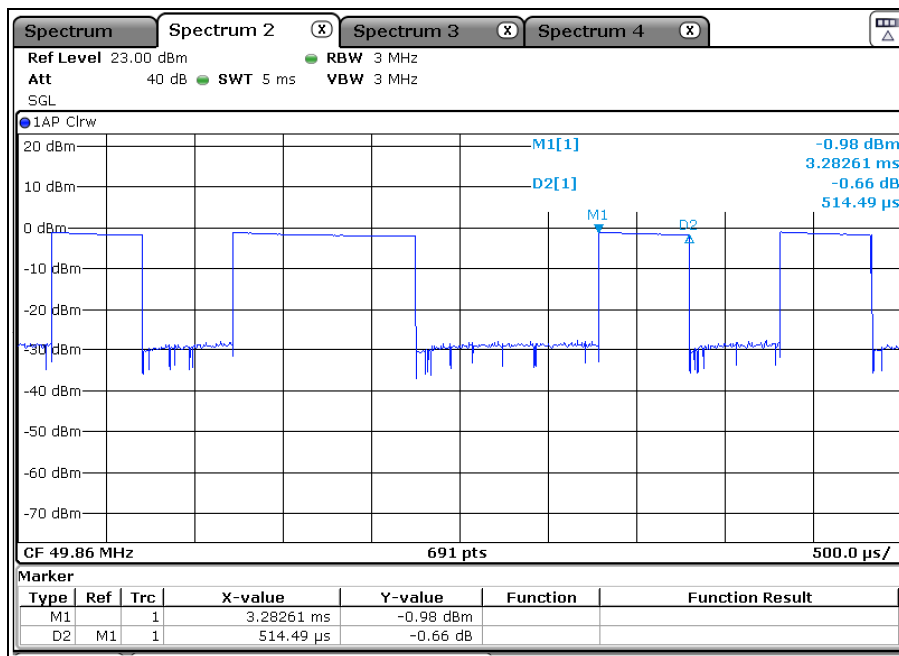


Ton2= 1.02899ms





Ton3= 0.51449ms



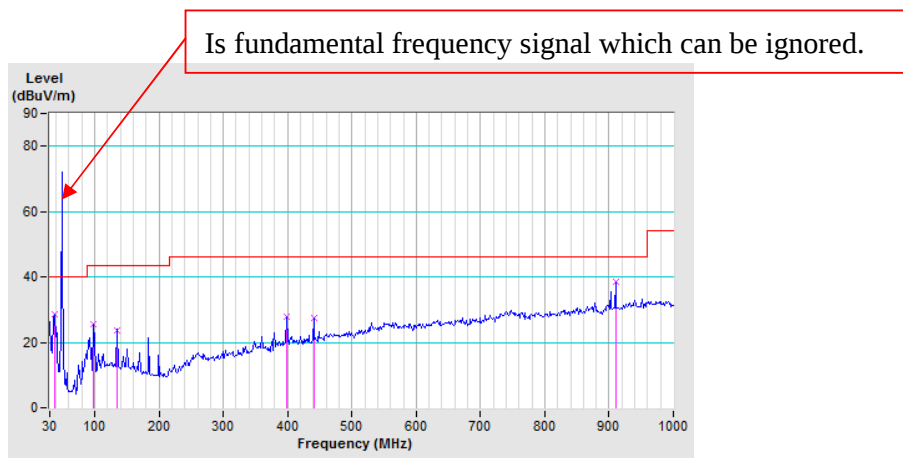


|                 |             |                      |                 |
|-----------------|-------------|----------------------|-----------------|
| FREQUENCY RANGE | 9KHz ~ 1GHz | DETECTOR<br>FUNCTION | Quasi-Peak (QP) |
|-----------------|-------------|----------------------|-----------------|

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                           |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|---------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 37.77          | 28.41 QP                      | 40.00             | -11.59         | 2.00 H                    | 46                         | 43.76                  | -15.35                         |
| 2                                                   | 98.40          | 25.53 QP                      | 43.50             | -17.97         | 2.10 H                    | 180                        | 44.42                  | -18.89                         |
| 3                                                   | 135.71         | 23.51 QP                      | 43.50             | -19.99         | 1.80 H                    | 290                        | 40.74                  | -17.23                         |
| 4                                                   | 398.41         | 28.02 QP                      | 46.00             | -17.98         | 2.40 H                    | 70                         | 36.81                  | -8.79                          |
| 5                                                   | 440.38         | 27.50 QP                      | 46.00             | -18.50         | 2.00 H                    | 88                         | 35.89                  | -8.39                          |
| 6                                                   | 909.84         | 38.39 QP                      | 46.00             | -7.61          | 2.50 H                    | 180                        | 36.87                  | 1.52                           |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.





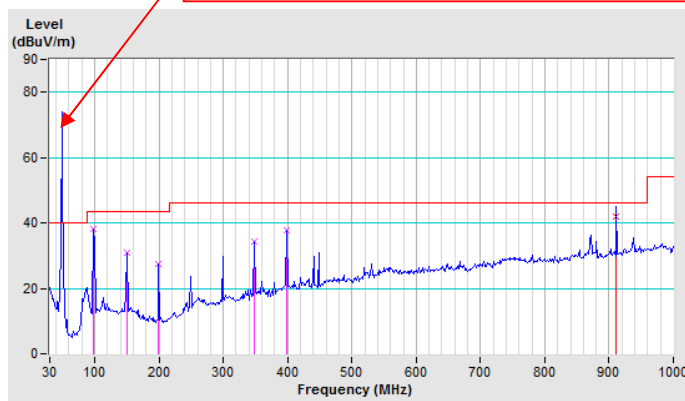
|                 |             |                   |                 |
|-----------------|-------------|-------------------|-----------------|
| FREQUENCY RANGE | 9KHz ~ 1GHz | DETECTOR FUNCTION | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                |                               |                   |                |                           |                            |                        |                                |
|---------------------------------------------------|----------------|-------------------------------|-------------------|----------------|---------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                               | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(cm) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                 | 98.40          | 38.13 QP                      | 43.50             | -5.37          | 1.00 V                    | 300                        | 57.02                  | -18.89                         |
| 2                                                 | 149.70         | 31.05 QP                      | 43.50             | -12.45         | 1.40 V                    | 280                        | 47.55                  | -16.50                         |
| 3                                                 | 199.44         | 27.50 QP                      | 43.50             | -16.00         | 2.00 V                    | 100                        | 46.72                  | -19.22                         |
| 4                                                 | 348.67         | 34.38 QP                      | 46.00             | -11.62         | 1.60 V                    | 180                        | 45.50                  | -11.12                         |
| 5                                                 | 398.41         | 37.57 QP                      | 46.00             | -8.43          | 1.88 V                    | 289                        | 46.36                  | -8.79                          |
| 6                                                 | 911.00         | 42.10 QP                      | 46.00             | -3.90          | 1.00 V                    | 230                        | 40.55                  | 1.55                           |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.

Is fundamental frequency signal which can be ignored.





## 4.2 BANDWIDTH MEASUREMENT

### 4.2.1 LIMITS OF BANDWIDTH MEASUREMENT

The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in Section 15.209.

| FREQUENCY<br>(MHz) | Limits             |
|--------------------|--------------------|
|                    | [MHz]              |
| 49.86              | within 49.81~49.91 |

### 4.2.2 TEST INSTRUMENTS

| Equipment                        | Manufacturer    | Model No. | Serial No.  | Last Cal.   | Next Cal.   |
|----------------------------------|-----------------|-----------|-------------|-------------|-------------|
| Power Sensor                     | Keysight        | U2021XA   | MY55060016  | May 04,17   | May 03,18   |
| Power Sensor                     | Keysight        | U2021XA   | MY55060018  | May 04,17   | May 03,18   |
| Digital Multimeter               | FLUKE           | 15B       | A1220010DG  | Oct. 13, 16 | Oct.12, 17  |
| Humid & Temp Programmable Tester | Haida           | HD-2257   | 110807201   | Sep.05,16   | Sep. 04,17  |
| Oscilloscope                     | Agilent         | DSO9254A  | MY51260160  | Nov. 04,16  | Nov. 03,17  |
| Signal Analyzer                  | Rohde & Schwarz | FSV7      | 102331      | Nov. 04,16  | Nov. 03,17  |
| Signal Generator                 | Agilent         | N5183A    | MY50140980  | Nov. 04,16  | Nov. 03,17  |
| Agile Signal Generator           | Agilent         | 8645A     | Agilent     | Aug.08, 17  | Aug.07, 18  |
| Spectrum Analyzer                | Keysight        | N9020A    | MY55400499  | Apr. 05,17  | Apr. 04,18  |
| MXG-B RF Vector Signal Generator | Keysight        | N5182B    | MY56200288  | Dec.05, 16  | Dec. 04, 17 |
| Attenuator                       | MINI            | BW-S10W2+ | S130129FGE2 | N/A         | N/A         |

**NOTE:**

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

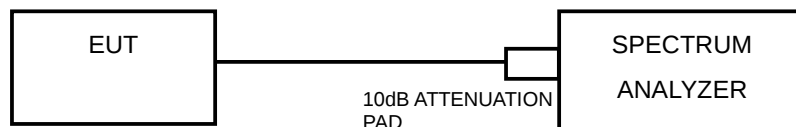
#### 4.2.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 26dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.2.5 TEST SETUP



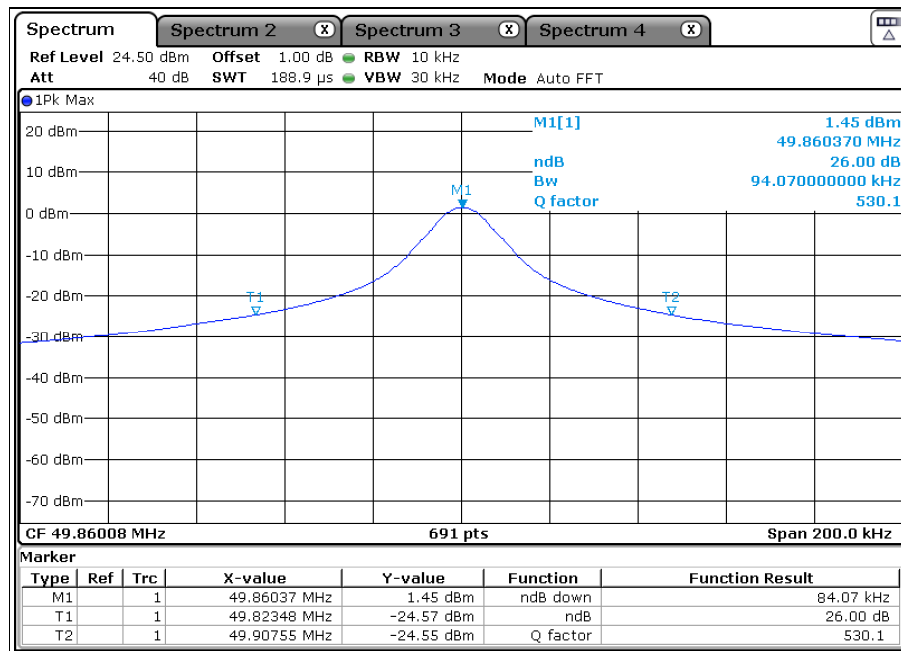
#### 4.2.6 EUT OPERATING CONDITIONS

Same as item 4.1.6



#### 4.2.7 TEST RESULTS

| Lower & Upper Test Frequency Point (MHz) | Test Frequency (MHz) | P/F  |
|------------------------------------------|----------------------|------|
| Lower                                    | 49.823               | PASS |
| Upper                                    | 49.908               | PASS |





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## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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## **6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.

---END---