



FCC PART 15.231

## TEST REPORT

For

### Ningbo Shuanghe Hongsheng Electronic Technology Co.,Ltd

No.2 Binxi south Rd Dayin Industrial Park, Yuyao, Zhejiang, China

**FCC ID: 2ATK8SHRF**

|                                        |                                                                                                                                                                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Type:</b><br>Original Report | <b>Product Type:</b><br>Wireless thermometer                                                                                                                                                                                                                                                            |
| <b>Report Number:</b> RSZ200615010-00  |                                                                                                                                                                                                                                                                                                         |
| <b>Report Date:</b> 2020-07-31         |                                                                                                                                                                                                                                                                                                         |
| <b>Reviewed By:</b> RF Engineer        | Nancy Wang                                                                                                                                                                                                         |
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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Product               | Wireless thermometer                            |
| Tested Model          | SH-006T                                         |
| Multiple Model        | SH-007B, SH-074T, TX151                         |
| Model Differences     | Refer to the DOS letter                         |
| Frequency Range       | 433.92 MHz                                      |
| Modulation Technique  | ASK                                             |
| Antenna Specification | 0dBi                                            |
| Voltage Range         | DC 3V from battery                              |
| Date of Test          | 2020-06-22 to 2020-07-08                        |
| Sample serial number  | RSZ200615010-RF-S1 (Assigned by BACL, Shenzhen) |
| Received date         | 2020-06-15                                      |
| Sample/EUT Status     | Good condition                                  |

### Objective

This test report is prepared on behalf of *Ningbo Shuanghe Hongsheng Electronic Technology Co.,Ltd.* All the test measurements were performed according to the measurement procedure described in ANSI C63.10 - 2013.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.209, 15.35(c) and 15.231 rules.

### Related Submittal(s)/Grant(s)

No related submittal(s).

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10 - 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

**Measurement Uncertainty**

| Parameter                          |            | Uncertainty |
|------------------------------------|------------|-------------|
| Occupied Channel Bandwidth         |            | ±5%         |
| RF Output Power with Power meter   |            | ±0.5dB      |
| RF conducted test with spectrum    |            | ±1.5dB      |
| AC Power Lines Conducted Emissions |            | ±1.95dB     |
| Radiated Emissions                 | Below 1GHz | ±4.75dB     |
|                                    | Above 1GHz | ±4.88dB     |
| Temperature                        |            | ±3°C        |
| Humidity                           |            | ±6%         |
| Supply voltages                    |            | ±0.4%       |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

**Test Facility**

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

## SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing by manufacturer.

Operating frequency: 433.92 MHz

### Special Accessories

No special accessories was used

### Equipment Modifications

No modification was made to the EUT.

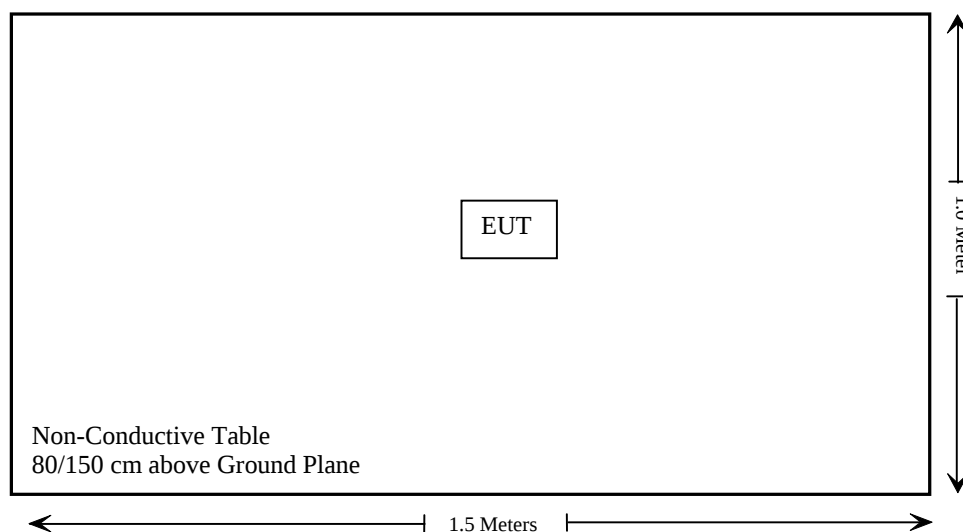
### Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| /            | /           | /     | /             |

### External I/O Cable

| Cable Description | Length (m) | From / Port | To |
|-------------------|------------|-------------|----|
| /                 | /          | /           | /  |

### Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

| FCC Rules                    | Description of Test                    | Result         |
|------------------------------|----------------------------------------|----------------|
| §15.203                      | Antenna Requirement                    | Compliance     |
| §15.207 (a)                  | Conducted Emissions                    | Not Applicable |
| §15.205, §15.209, §15.231(e) | Radiated Emissions                     | Compliance     |
| §15.231 (c)                  | 20dB Emission Bandwidth                | Compliance     |
| §15.231(e)                   | Transmission And Silent Period Testing | Compliance     |

Not Applicable: The EUT is powered by battery only.

**TEST EQUIPMENT LIST AND DETAILS**

| Manufacturer       | Description        | Model           | Serial Number | Calibration Date | Calibration Due Date |
|--------------------|--------------------|-----------------|---------------|------------------|----------------------|
| R&S                | EMI Test Receiver  | ESR3            | 102455        | 2019/7/9         | 2020/7/8             |
| Sonoma instrument  | Pre-amplifier      | 310 N           | 186238        | 2020/4/20        | 2021/4/20            |
| Sunol Sciences     | Broadband Antenna  | JB1             | A040904-1     | 2017/12/22       | 2020/12/21           |
| Unknown            | Cable 2            | RF Cable 2      | F-03-EM197    | 2019/11/29       | 2020/11/28           |
| Unknown            | Cable              | Chamber Cable 1 | F-03-EM236    | 2019/11/29       | 2020/11/28           |
| Unknown            | Cable              | Chamber Cable 4 | EC-007        | 2019/11/29       | 2020/11/28           |
| Rohde & Schwarz    | Auto test software | EMC 32          | V9.10         | NCR              | NCR                  |
| Rohde & Schwarz    | Spectrum Analyzer  | FSV40-N         | 102259        | 2019/7/22        | 2020/7/21            |
| COM-POWER          | Pre-amplifier      | PA-122          | 181919        | 2019/11/29       | 2020/11/28           |
| Sunol Sciences     | Horn Antenna       | DRH-118         | A052604       | 2017/12/22       | 2020/12/21           |
| Insulted Wire Inc. | RF Cable           | SPS-2503-3150   | 02222010      | 2019/11/29       | 2020/11/28           |
| Unknown            | RF Cable           | W1101-EQ1 OUT   | F-19-EM005    | 2019/11/29       | 2020/11/28           |
| Unknown            | Signal Cable       | RG-214          | 2             | 2019/11/29       | 2020/11/28           |

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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## **FCC §15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

### **Antenna Connector Construction**

The EUT has one internal antenna arrangement which was permanently attached. And the antenna gain is 0dBi, fulfill the requirement of this section. Please refer to EUT photos.

**Result:** Compliant.

**FCC §15.205, §15.209, §15.231 (e) - RADIATED EMISSIONS****Applicable Standard**

FCC §15.205, §15.209, §15.231 (e)

According to §15.231 (e), intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) of this section and may be employed for any type of operation, including operation prohibited in paragraph (a) of this section, provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this section, except the field strength table in paragraph (b) of this section is replaced by the following:

| Fundamental frequency<br>(MHz) | Field Strength of<br>Fundamental<br>(Microvolts /meter) | Field Strength of spurious<br>emissions<br>(Microvolts /meter) |
|--------------------------------|---------------------------------------------------------|----------------------------------------------------------------|
| 40.66-40.70                    | 1000                                                    | 100                                                            |
| 70-130                         | 500                                                     | 50                                                             |
| 130-174                        | 500 to 1500**                                           | 50 to 150**                                                    |
| 174-260                        | 1500                                                    | 150                                                            |
| 260-470                        | 1500 to 5000**                                          | 150 to 500**                                                   |
| Above 470                      | 5000                                                    | 500                                                            |

\*\*Linear interpolations.

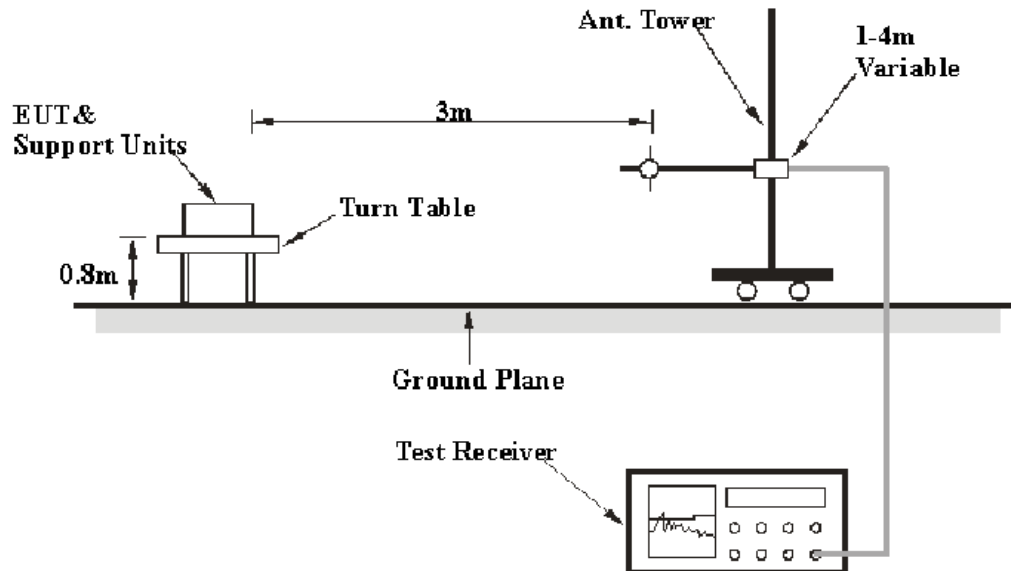
The above field strength limits are specified at a distance of 3-meters the tighter limits apply at the band edges.

**Measurement Uncertainty**

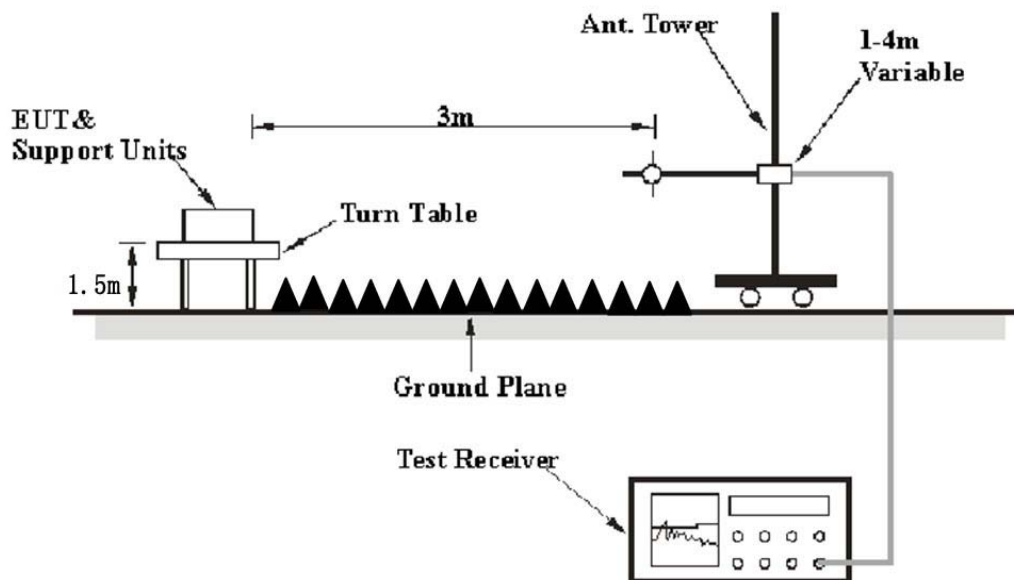
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

## EUT Setup

Below 1 GHz:



Above 1 GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10 - 2013. The specification used was the FCC 15 § 15.209, 15.205 and 15.231.

## EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 GHz.

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

| Frequency Range  | RBW     | Video B/W | IF B/W  | Measurement |
|------------------|---------|-----------|---------|-------------|
| 30MHz – 1000 MHz | 100 kHz | 300 kHz   | 120 kHz | QP          |
| Above 1 GHz      | 1 MHz   | 3 MHz     | /       | PK          |

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz, Peak and average detection mode above 1 GHz.

## Corrected Amplitude & Margin Calculation

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

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 5.8 dB means the emission is 5.8 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

## Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.205, §15.209, §15.231 (e)

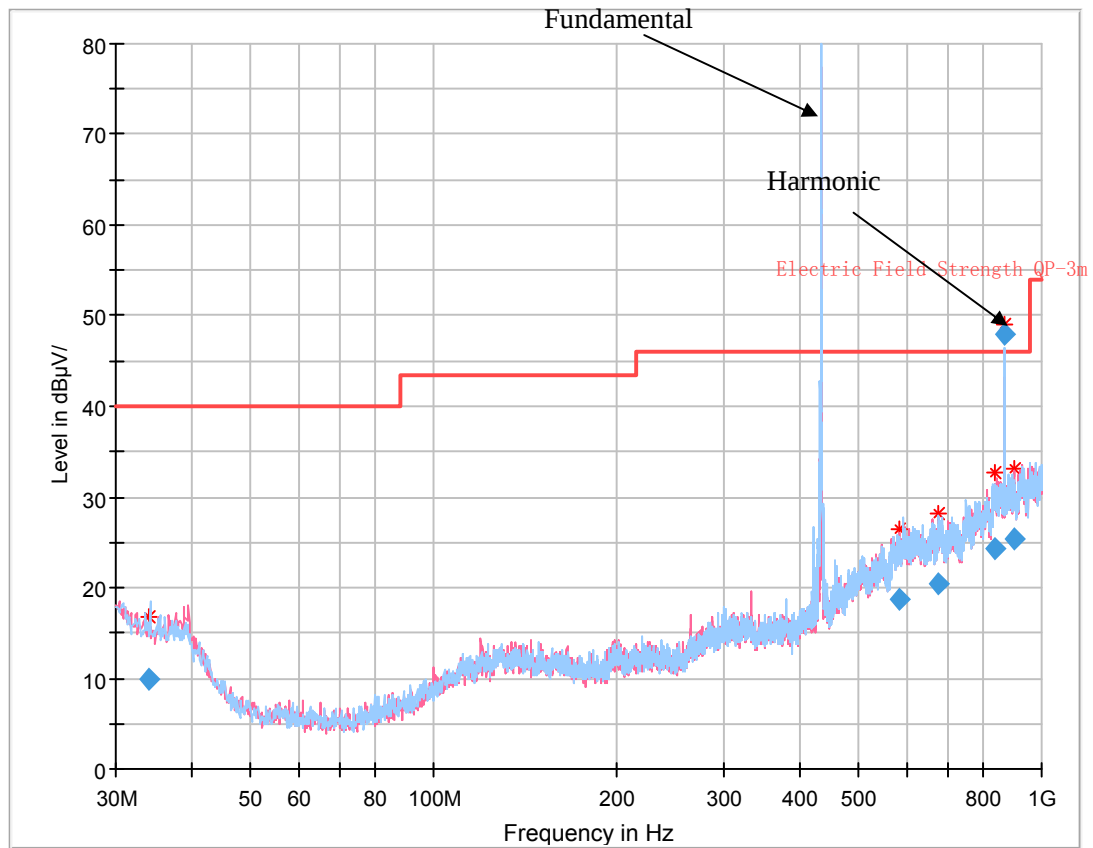
## Test Data

### Environmental Conditions

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 25~28 °C  |
| <b>Relative Humidity:</b> | 60~68 %   |
| <b>ATM Pressure:</b>      | 101.0 kPa |

*The testing was performed by Holland Yang and Charlie Cha from 2020-06-22 to 2020-07-08.*

*Test mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded)*



| Frequency (MHz) | Corrected Amplitude (dBμV/m) | PK/QP/Ave. | Antenna Height (cm) | Antenna Polarity | Turntable Position (degree) | Correction Factor (dB/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|------------------------------|------------|---------------------|------------------|-----------------------------|--------------------------|----------------|-------------|
| 33.937500       | 9.90                         | QP         | 339.0               | H                | 260.0                       | -9.9                     | 40.00          | 30.10       |
| 581.443375      | 18.71                        | QP         | 354.0               | V                | 44.0                        | -2.5                     | 46.00          | 27.29       |
| 678.566250      | 20.39                        | QP         | 129.0               | H                | 24.0                        | -1.4                     | 46.00          | 25.61       |
| 838.247375      | 24.36                        | QP         | 400.0               | H                | 341.0                       | 2.8                      | 46.00          | 21.64       |
| 867.835750      | 47.88                        | QP         | 111.0               | H                | 87.0                        | 3.5                      | 52.90          | 5.02        |
| 867.835750      | 48.91                        | PK         | 111.0               | H                | 87.0                        | 3.5                      | 52.90          | 3.99        |
| 904.550375      | 25.28                        | QP         | 224.0               | V                | 229.0                       | 4.3                      | 46.00          | 20.72       |

**Note:** the peak value can meet the limit of the average value.

| Frequency<br>(MHz) | Receiver                |            | Turntable<br>Degree | Rx Antenna    |                | Corrected<br>Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dB $\mu$ V/m) | FCC Part 15.231(e)      |                |             |
|--------------------|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|------------------------------------------|-------------------------|----------------|-------------|
|                    | Reading<br>(dB $\mu$ V) | PK/QP/Ave. |                     | Height<br>(m) | Polar<br>(H/V) |                               |                                          | Limit<br>(dB $\mu$ V/m) | Margin<br>(dB) | Comment     |
| 433.92             | 83.02                   | PK         | 201                 | 1.3           | H              | -8.9                          | 74.12                                    | 92.9                    | 18.78          | Fundamental |
| 433.92             | 76.10                   | PK         | 18                  | 1.2           | V              | -8.9                          | 67.20                                    | 92.9                    | 25.70          | Fundamental |
| 1301.76            | 52.32                   | PK         | 345                 | 1.7           | H              | -3.28                         | 49.04                                    | 74                      | 24.96          | Harmonic    |
| 1301.76            | 44.42                   | PK         | 183                 | 2.5           | V              | -3.28                         | 41.14                                    | 74                      | 32.86          | Harmonic    |
| 1735.68            | 61.60                   | PK         | 79                  | 1.7           | H              | -1.86                         | 59.74                                    | 72.9                    | 13.16          | Harmonic    |
| 1735.68            | 49.43                   | PK         | 272                 | 2.0           | V              | -1.86                         | 47.57                                    | 72.9                    | 25.33          | Harmonic    |
| 2169.60            | 64.26                   | PK         | 170                 | 2.2           | H              | -0.06                         | 64.20                                    | 72.9                    | 8.70           | Harmonic    |
| 2169.60            | 52.80                   | PK         | 335                 | 1.8           | V              | -0.06                         | 52.74                                    | 72.9                    | 20.16          | Harmonic    |
| 2603.52            | 50.71                   | PK         | 247                 | 2.5           | H              | 0.83                          | 51.54                                    | 72.9                    | 21.36          | Harmonic    |
| 2603.52            | 43.19                   | PK         | 258                 | 1.0           | V              | 0.83                          | 44.02                                    | 72.9                    | 28.88          | Harmonic    |
| 3037.44            | 57.44                   | PK         | 52                  | 2.1           | H              | 1.94                          | 59.38                                    | 72.9                    | 13.52          | Harmonic    |
| 3037.44            | 46.06                   | PK         | 313                 | 1.9           | V              | 1.94                          | 48.00                                    | 72.9                    | 24.90          | Harmonic    |
| 3471.36            | 47.47                   | PK         | 239                 | 2.0           | H              | 3.13                          | 50.60                                    | 72.9                    | 22.30          | Harmonic    |
| 3471.36            | 42.72                   | PK         | 247                 | 1.3           | V              | 3.13                          | 45.85                                    | 72.9                    | 27.05          | Harmonic    |

| Field Strength of Average Emission |                               |             |                                   |                              |                    |             |             |
|------------------------------------|-------------------------------|-------------|-----------------------------------|------------------------------|--------------------|-------------|-------------|
| Frequency (MHz)                    | Peak Measurement @3m (dBμV/m) | Polar (H/V) | Duty Cycle Correction Factor (dB) | Corrected Amplitude (dBμV/m) | FCC Part 15.231(e) |             |             |
|                                    |                               |             |                                   |                              | Limit (dBμV/m)     | Margin (dB) | Comment     |
| 433.92                             | 74.12                         | H           | -15.97                            | 58.15                        | 72.9               | 14.75       | Fundamental |
| 433.92                             | 67.20                         | V           | -15.97                            | 51.23                        | 72.9               | 21.67       | Fundamental |
| 1301.76                            | 49.04                         | H           | -15.97                            | 33.07                        | 54                 | 20.93       | Harmonic    |
| 1301.76                            | 41.14                         | V           | -15.97                            | 25.17                        | 54                 | 28.83       | Harmonic    |
| 1735.68                            | 59.74                         | H           | -15.97                            | 43.77                        | 52.9               | 9.13        | Harmonic    |
| 1735.68                            | 47.57                         | V           | -15.97                            | 31.60                        | 52.9               | 21.30       | Harmonic    |
| 2169.60                            | 64.20                         | H           | -15.97                            | 48.23                        | 52.9               | 4.67        | Harmonic    |
| 2169.60                            | 52.74                         | V           | -15.97                            | 36.77                        | 52.9               | 16.13       | Harmonic    |
| 2603.52                            | 51.54                         | H           | -15.97                            | 35.57                        | 52.9               | 17.33       | Harmonic    |
| 2603.52                            | 44.02                         | V           | -15.97                            | 28.05                        | 52.9               | 24.85       | Harmonic    |
| 3037.44                            | 59.38                         | H           | -15.97                            | 43.41                        | 52.9               | 9.49        | Harmonic    |
| 3037.44                            | 48.00                         | V           | -15.97                            | 32.03                        | 52.9               | 20.87       | Harmonic    |
| 3471.36                            | 50.60                         | H           | -15.97                            | 34.63                        | 52.9               | 18.27       | Harmonic    |
| 3471.36                            | 45.85                         | V           | -15.97                            | 29.88                        | 52.9               | 23.02       | Harmonic    |

**Note:**

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor = Antenna factor (Rx) + cable loss – amplifier factor

Margin = Limit - Corr. Amplitude

Ave. = PK + 20\*log(Duty Cycle)

**Duty Cycle:**

Ton= 32\*0.498ms=15.94ms

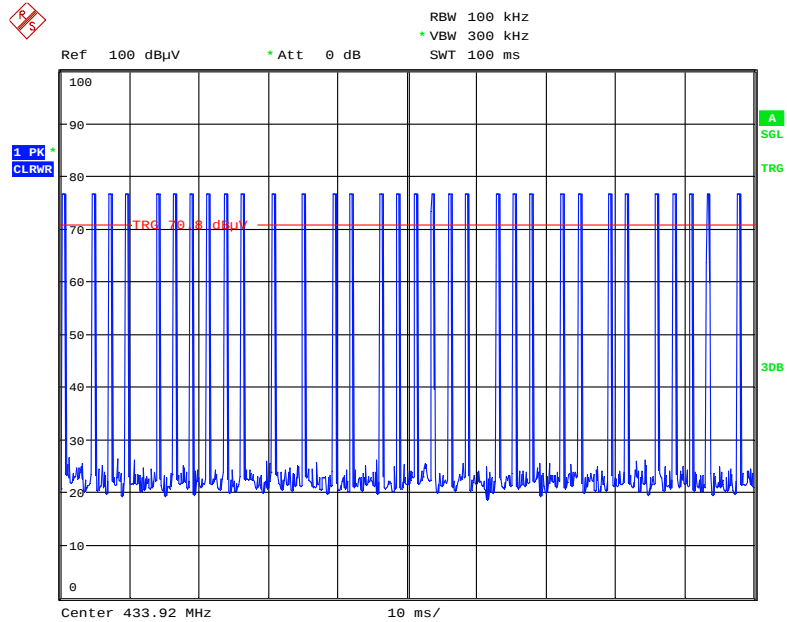
Tp = 100 ms

Duty cycle = Ton/Tp = Ton/100=0.159

Duty Cycle Corrected Factor = 20lg (Duty cycle) = 20lg0.159 = -15.97

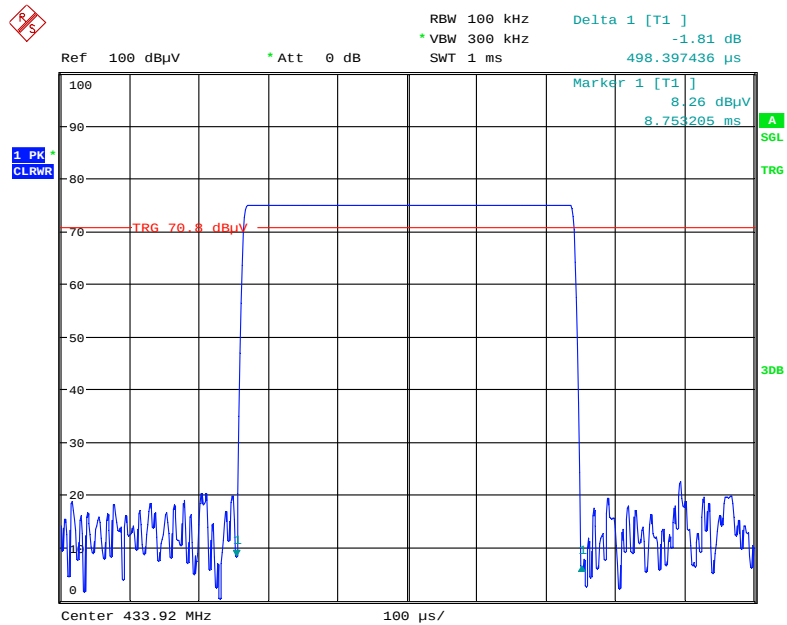
# Duty Cycle

## DC-Tp



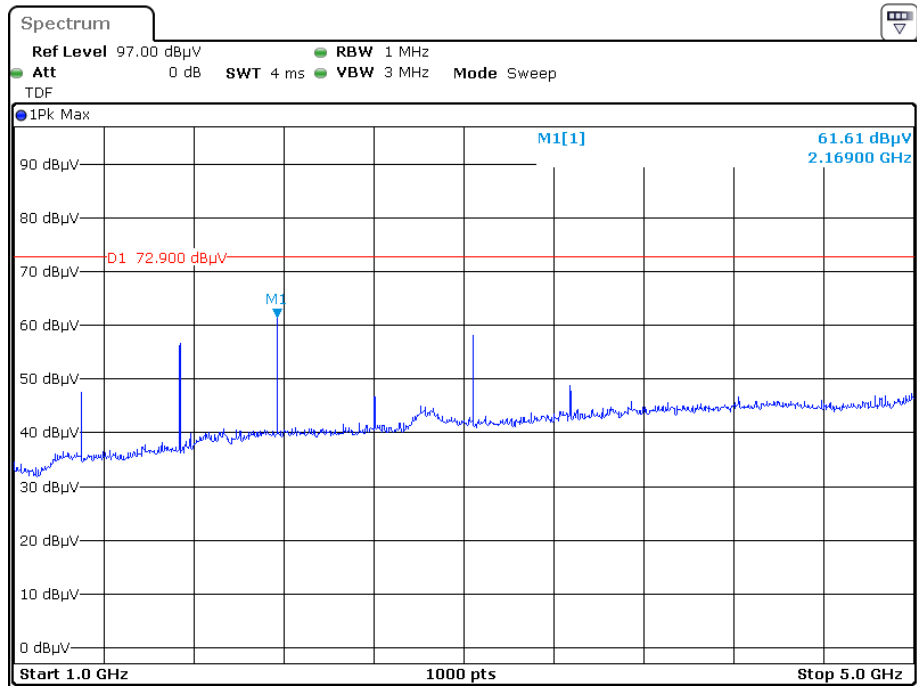
Date: 24.JUN.2020 11:19:12

## DC-Ton



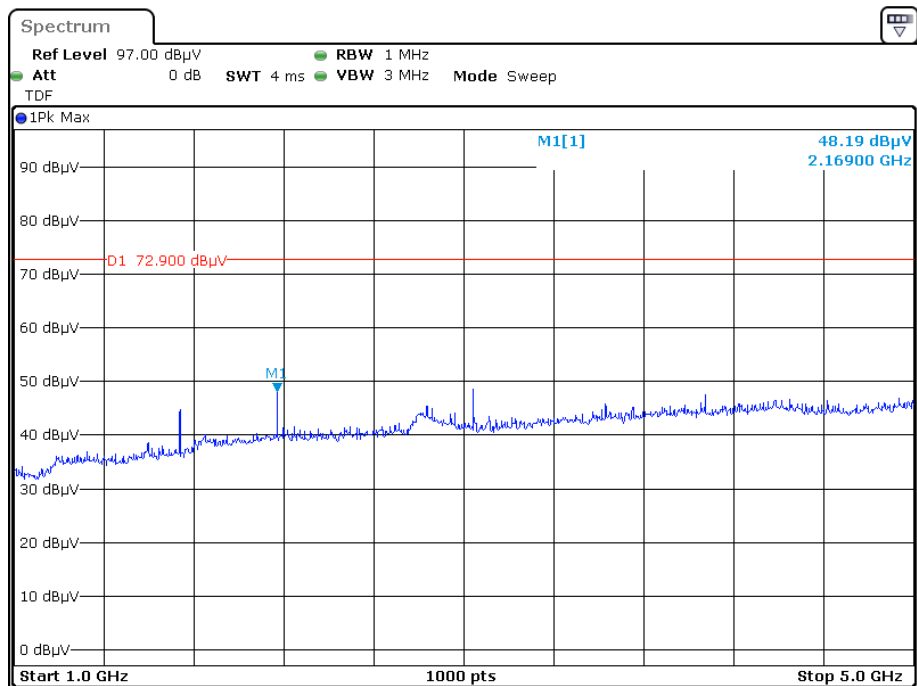
Date: 24.JUN.2020 11:29:41

## Pre-scan-Horizontal



Date: 8.JUL.2020 14:53:49

## Pre-scan – Vertical



Date: 8.JUL.2020 14:58:17

**FCC §15.231(c) – 20 dB EMISSION BANDWIDTH TESTING****Applicable Standard**

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

**Test Procedure**

With the EUT's antenna attached, the waveform was received by the test antenna which was connected to the spectrum analyzer, plot the 20 dB bandwidth.

**Test Data****Environmental Conditions**

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 24 °C     |
| <b>Relative Humidity:</b> | 64 %      |
| <b>ATM Pressure:</b>      | 101.0 kPa |

*The testing was performed by Holland Yang on 2020-06-24.*

*Test Mode: Transmitting*

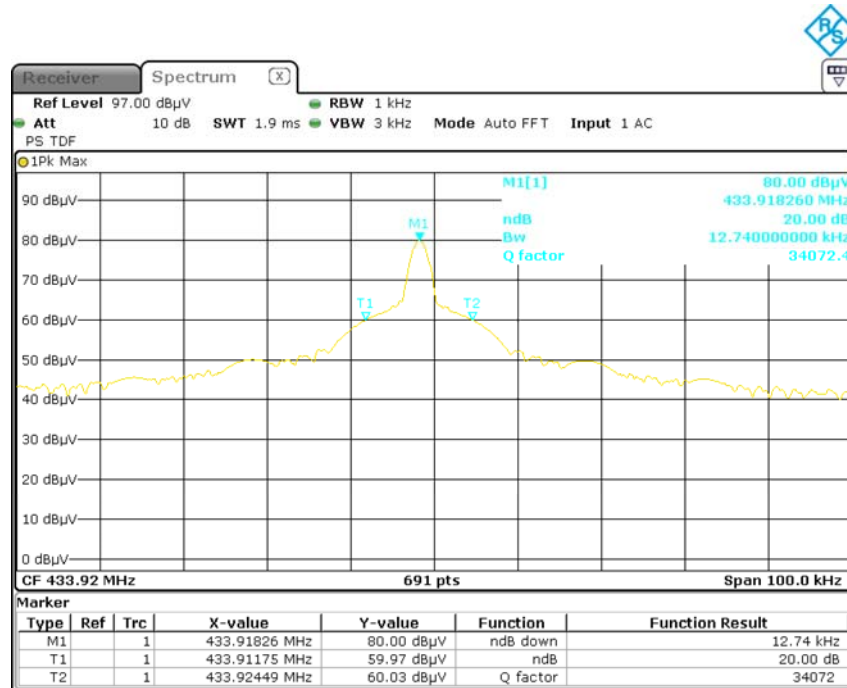
Please refer to following table and plots.

| <b>Channel Frequency<br/>(MHz )</b> | <b>20 dB Emission Bandwidth<br/>(kHz)</b> | <b>&lt;Limit<br/>(kHz)</b> | <b>Result</b> |
|-------------------------------------|-------------------------------------------|----------------------------|---------------|
| 433.92                              | 12.74                                     | 1085                       | Pass          |

Note:

Limit = 0.25% \* center frequency = 0.25% \* 433.92 MHz = 1.0848 MHz  
20dB bandwidth = 12.74 kHz < 1.0848 MHz

# 20 dB Emission Bandwidth



Date: 24.JUN.2020 10:22:35

**FCC §15.231(e) – TRANSMISSION AND SILENT PERIOD TESTING****Applicable Standard**

Per FCC §15.231(e), devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

**Test Procedure**

1. Set the EUT into the chamber.
2. Set center frequency of spectrum analyzer=operating frequency.
3. Set the spectrum analyzer as RBW=100kHz, VBW=300kHz, Span=0Hz.

**Test Data****Environmental Conditions**

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 24 °C     |
| <b>Relative Humidity:</b> | 64 %      |
| <b>ATM Pressure:</b>      | 101.0 kPa |

*The testing was performed by Holland Yang on 2020-06-24.*

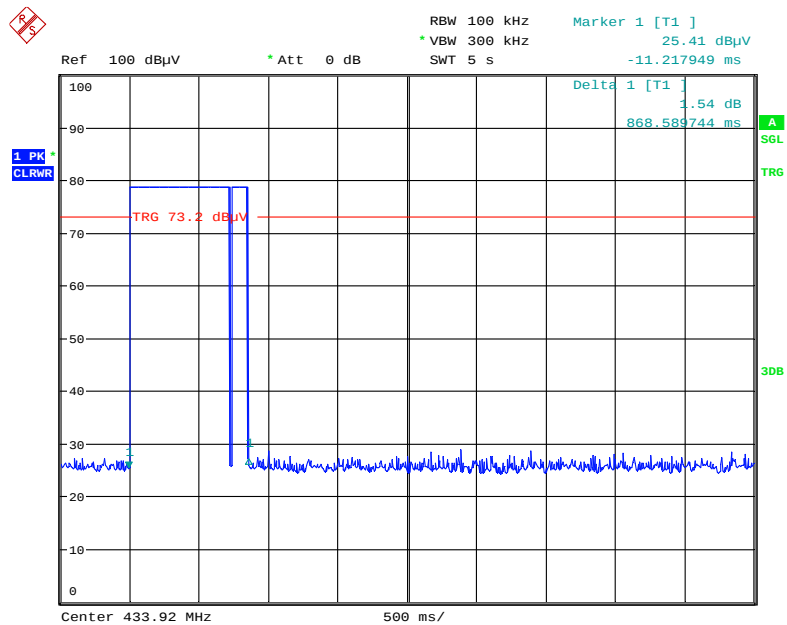
*Test mode: Transmitting*

| <b>Channel</b> | <b>Transmission period (s)</b> | <b>Limit (s)</b> | <b>Silent period (s)</b> | <b>Limit (s)</b> | <b>Result</b> |
|----------------|--------------------------------|------------------|--------------------------|------------------|---------------|
| CH1            | 0.869                          | < 1              | 48.91                    | > 26.07          | Pass          |
| CH2            | 0.901                          | < 1              | 51.85                    | > 27.03          | Pass          |
| CH3            | 0.893                          | < 1              | 54.74                    | > 26.79          | Pass          |

Note: The silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

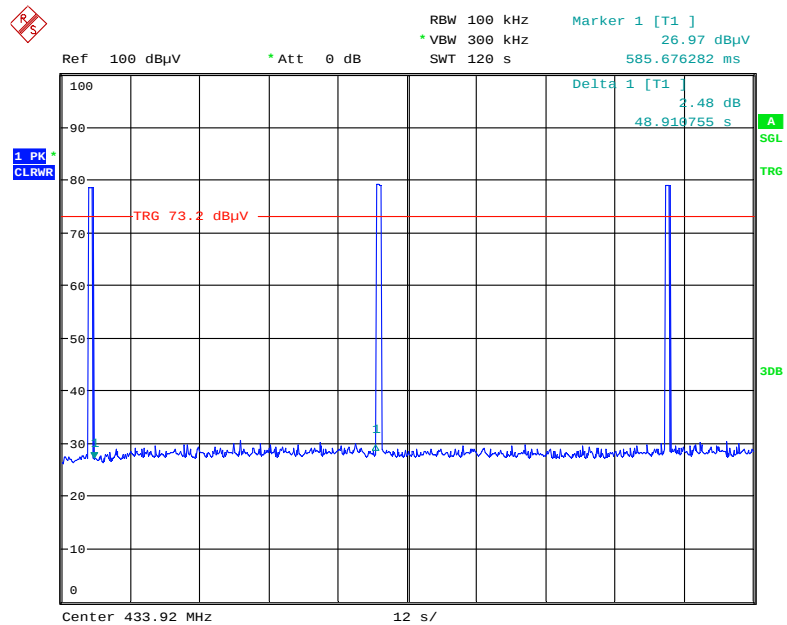
**Test Result:** Compliant, please refer to following plot

### CH1-Transmission period



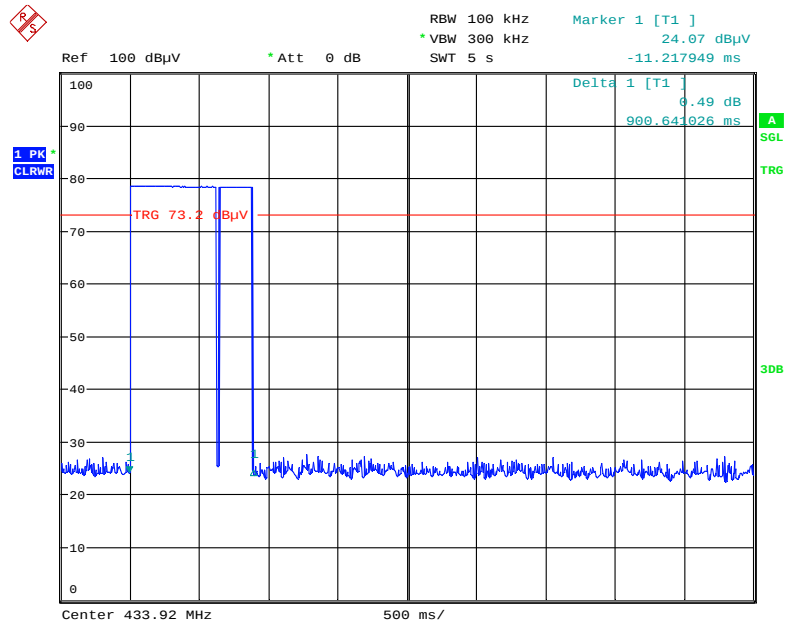
Date: 24.JUN.2020 11:59:04

### CH1-Silent period



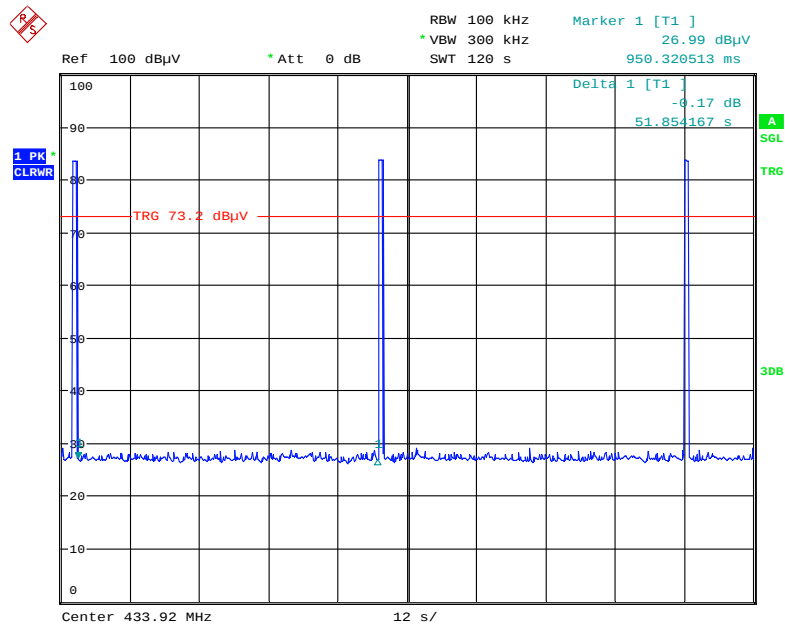
Date: 24.JUN.2020 11:57:37

### CH2-Transmission period



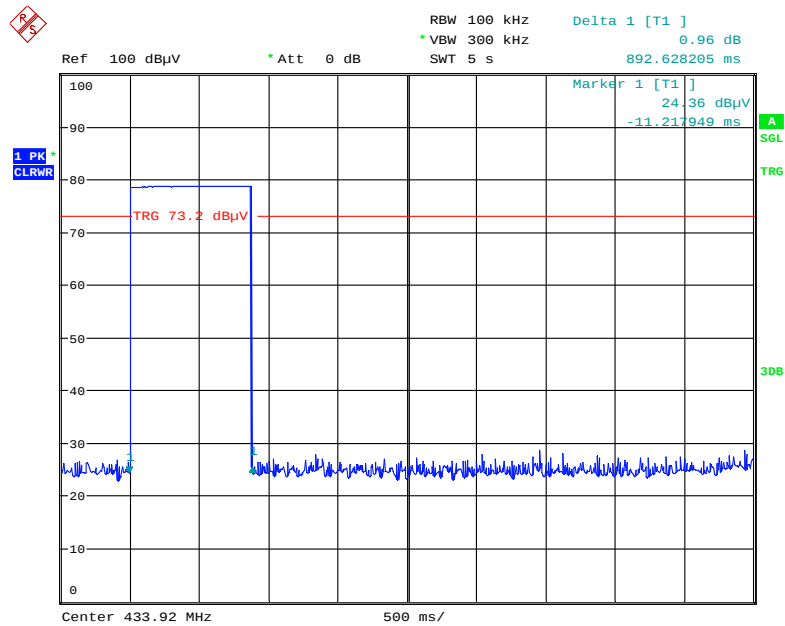
Date: 24.JUN.2020 12:00:34

### CH2-Silent period



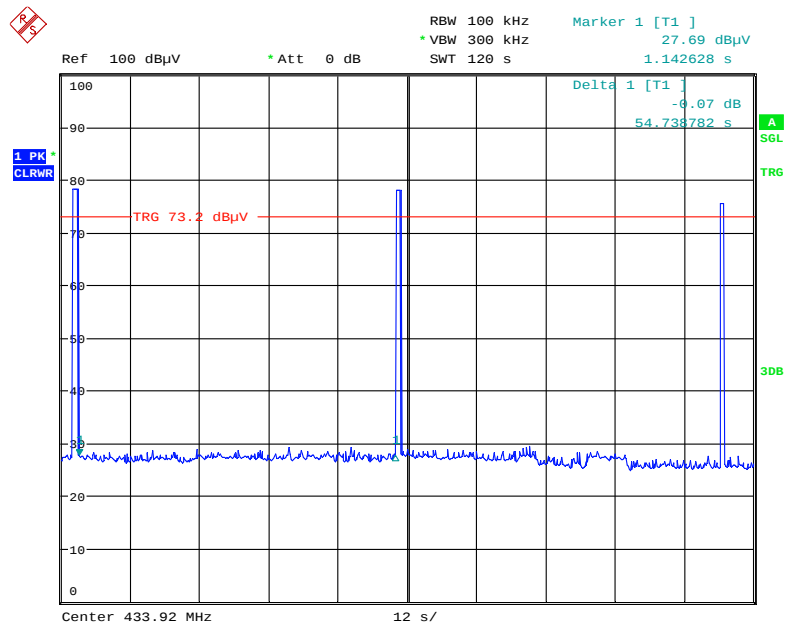
Date: 24.JUN.2020 13:13:27

### CH3-Transmission period



Date: 24.JUN.2020 12:01:19

### CH3-Silent period



Date: 24.JUN.2020 13:09:22

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