

## RF Test Report

**Test Report Number** HID-24112231-LC-FCC-IC-RF

**FCC ID** JQ6-TT2  
**ISED ID** 2236B-TT2

**Applicant** HID Global Corporation  
**Applicant Address** 611 Center Ridge Drive, Austin, TX, 78753, USA  
**Product Name** Tot Tag 2  
**Model (s)** TT2  
**Date of Receipt** 12/09/2024  
**Date of Test** 12/17/2024- 01/15/2025  
**Report Issue Date** 01/22/2025  
**Test Standards** 47 CFR Part 15.231  
RSS-210 Issue 11, June 2024  
**Test Result** **PASS**



Issued by:

**Vista Compliance Laboratories**  
1261 Puerta Del Sol, San Clemente, CA 92673 USA  
[www.vista-compliance.com](http://www.vista-compliance.com)

**Minoush Niknam (Test Engineer)**

**David Zhang (Technical Manager)**

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## REVISION HISTORY

| Report Number             | Version | Description    | Issued Date |
|---------------------------|---------|----------------|-------------|
| HID-24112231-LC-FCC-IC-RF | 01      | Initial report | 01/22/2025  |
|                           |         |                |             |
|                           |         |                |             |
|                           |         |                |             |
|                           |         |                |             |

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## 1 Test Summary

| Test Item                         | Test Requirement                                  | Test Method  | Result |
|-----------------------------------|---|--|--------|
| Antenna Requirement               | 47 CFR Part 15.203                                | N/A  | Pass   |
| Fundamental Field Strength        | 47 CFR Part 15.231<br>RSS-210 Issue 11, June 2024 | ANSI C63.10-2013<br>RSS-Gen Issue 5, February 2021 | Pass   |
| Radiated Emissions                | 47 CFR Part 15.231<br>RSS-210 Issue 11, June 2024 | ANSI C63.10-2013<br>RSS-Gen Issue 5, February 2021 | Pass   |
| Occupied Bandwidth                | 47 CFR Part 15.231<br>RSS-210 Issue 11, June 2024 | ANSI C63.10-2013<br>RSS-Gen Issue 5, February 2021 | Pass   |
| Duty Cycle                        | 47 CFR Part 15.231<br>RSS-210 Issue 11, June 2024 | ANSI C63.10-2013<br>RSS-Gen Issue 5, February 2021 | Pass   |
| AC Power Line Conducted Emissions | 47 CFR Part 15.207<br>RSS-Gen Issue 5, Feb 2021   | ANSI C63.10-2013<br>RSS-Gen Issue 5, February 2021 | N/A    |

Note: N/A. The EUT is battery-operated and has no power ports, so AC power line conducted emission does not apply.

## 2 General Information

### 2.1 Applicant

|                             |  |
|-----------------------------|--|
| <b>Applicant</b>            | HID Global Corporation                         |
| <b>Applicant address</b>    | 611 Center Ridge Drive, Austin, TX, 78753, USA |
| <b>Manufacturer</b>         | HID Global Corporation                         |
| <b>Manufacturer Address</b> | 611 Center Ridge Drive, Austin, TX, 78753, USA |

### 2.2 Product information

|   |   |
|---|---|
| <b>Product Name</b>                     | Tot Tag 2   |
| <b>Product Description</b>              | TotTag 2 Infant Monitoring Tag  |
| <b>Model Number</b>                     | TT2   |
| <b>Family Models</b>                    | N/A   |
| <b>Serial Number</b>                    | 000059 (Continuous TX)<br>000057 (Normal operation)   |
| <b>Frequency Band</b>                   | 433.92 MHz  |
| <b>Type of modulation</b>               | ASK   |
| <b>Equipment Class</b>                  | DSC   |
| <b>Antenna Information</b>              | Internal Antenna  |
| <b>Clock Frequencies</b>                | N/A   |
| <b>Input Power</b>                      | DC3V  |
| <b>Power Adapter Manufacturer/Model</b> | N/A   |
| <b>Power Adapter SN</b>                 | N/A   |
| <b>Hardware version</b>                 | N/A   |
| <b>Software version</b>                 | N/A   |
| <b>Additional Info</b>                  | TotTag is an active monitoring device specifically designed for newborn infants. It has a battery life of up to 12 months. This tag transmits a periodic location beacon and includes a low-frequency receiver that detects signals from GuardRFID® Tag Exciters. TotTags are compatible with the GuardRFID AllGuard® software, which includes support from TotGuard® to offer real-time location services. |

### 2.3 Test standard and method

|                      |  |
|----------------------|--|
| <b>Test standard</b> | 47 CFR Part 15.231<br>RSS-210 Issue 11, June 2024  |
| <b>Test method</b>   | ANSI C63.10-2013<br>RSS-Gen Issue 5, February 2021 |

### 3 Test Site Information

|                             |   |
|-----------------------------|---|
| <b>Lab performing tests</b> | Vista Laboratories, Inc.                        |
| <b>Lab Address</b>          | 1261 Puerta Del Sol, San Clemente, CA 92673 USA |
| <b>Phone Number</b>         | +1 (949) 393-1123                               |
| <b>Website</b>              | www.vista-compliance.com                        |

| Test Condition            | Temperature | Humidity | Atmospheric Pressure |
|---------------------------|-------------|----------|----------------------|
| RF Testing                | 23.2°C      | 57.5%    | 996 mbar             |
| Radiated Emission Testing | 23.2°C      | 57.5%    | 996 mbar             |

### 4 Modification of EUT / Deviations from Standards

The normal operation sample is unmodified; the continuous TX sample is modified with external jumper to power on and off for testing purpose. No deviation from standards.

### 5 Test Configuration and Operation

#### 5.1 EUT Test Configuration

For radio testing, EUT is set to radio test mode with continuous transmission; for duty cycle measurement, EUT is in normal operation mode.

The following software was used for testing and monitoring EUT performance:

| Software       | Description  |
|----------------|--|
| EMISoft Vasona | EMC/RF Spurious emission test software used during testing |

#### 5.2 Supporting Equipment

| Description | Manufacturer | Model # | Serial # | Remark |
|-------------|--------------|---------|----------|--------|
| -           | -            | -       | -        | -      |
| -           | -            | -       | -        | -      |
| -           | -            | -       | -        | -      |

## 6 Uncertainty of Measurement

| Test item                      | Measurement Uncertainty (dB) |
|--------------------------------|------------------------------|
| RF Output Power (Conducted)    | ±1.2 dB                      |
| Power Spectral Density         | ±0.9 dB                      |
| Unwanted Emission (conducted)  | ±2.6 dB                      |
| Occupied Channel Bandwidth     | ±5 %                         |
| Radiated Emission (9KHz-30MHz) | ±3.5 dB                      |
| Radiated Emission (30MHz-1GHz) | ±4.6 dB                      |
| Radiated Emission (1-18GHz)    | ±4.9 dB                      |
| Radiated Emission (18-40GHz)   | ±3.5 dB                      |

## 7 Test Results

### 7.1 Antenna Requirement

#### 7.1.1 Requirement

Per § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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.

#### 7.1.2 Result

Analysis:

- EUT has an internal antenna permanently attached to the main board, fulfilling the requirement for permanent attachment.

Conclusion:

- EUT complies with antenna requirement in § 15.203.



## 7.2 Field strength and Radiated Emissions Measurement

### 7.2.1 Requirement

§ 15.231 (b), RSS-210 Annex A

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental frequency | Field strength of fundamental (microvolts/meter) | Field strength of spurious emissions (microvolts/meter) |
|-----------------------|--|---|
| 40.66 – 40.70 MHz     | 2250   | 225   |
| 70 – 130 MHz          | 1250   | 125   |
| 130 – 174 MHz         | 1,250 to 3,750                                   | 125 to 375  |
| 174 – 260 MHz         | 3,750  | 3,75  |
| 260 – 470 MHz         | 3,750 to 12,500                                  | 3,75 to 12,50   |
| Above 470             | 12,500   | 1,250   |

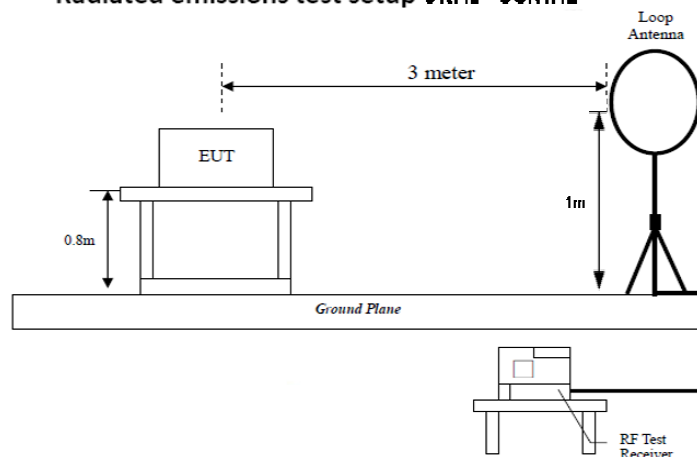
If the emission falls within the restricted band specified in 15.205(a), then the limit in 15.209(a) from the table below must be followed.

| Frequency Range | Field strength of fundamental (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                             |
| Above 960       | 500  | 3                             |

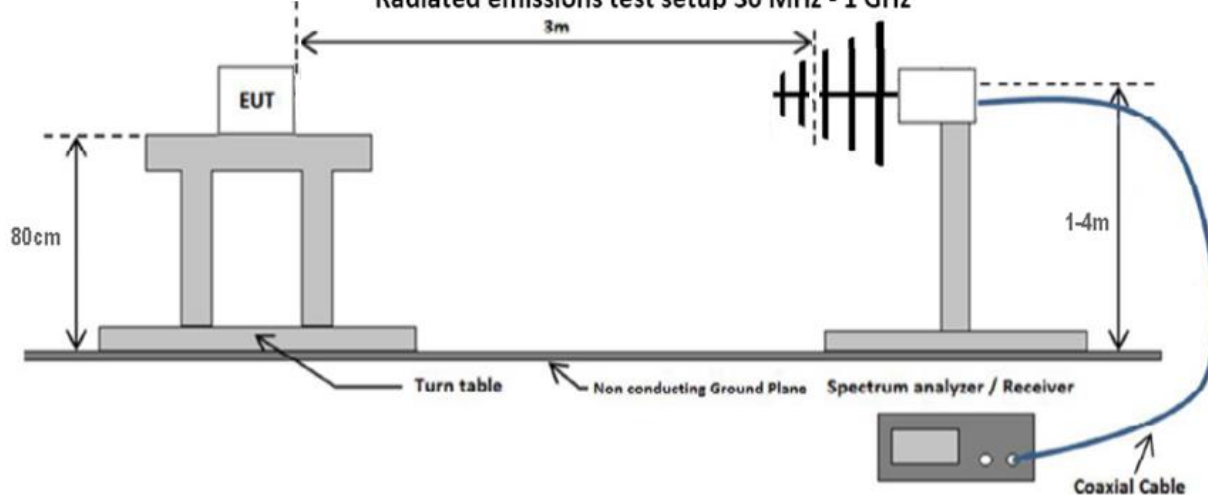
Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

## 7.2.2 Test Setup

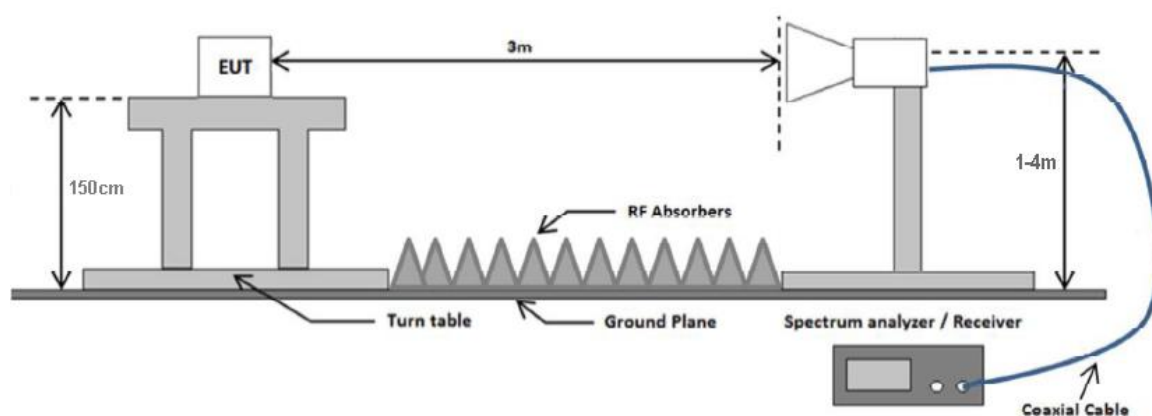
**Radiated emissions test setup 9KHz - 30MHz**



**Radiated emissions test setup 30 MHz - 1 GHz**



**Radiated emissions test setup above 1 GHz**



### 7.2.3 Test Procedure

According to section 6 radiated spurious emission measurements in ANSI C63.10-2013, Boresight antenna mast was used during the scanning to point to EUT to maximize the emission. The process will be repeated in 3 EUT orientations.

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
  - a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
  - b. The EUT was then rotated to the direction that gave the maximum emission.
  - c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 300 Hz for frequency below 150KHz.
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 10 kHz for frequency between 150KHz – 30MHz.
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-Peak detection at frequency between 30MHz - 1GHz.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak and average measurement at frequency above 1GHz.
7. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.

## 7.2.4 Test Result

### Field strength of Fundamental Test result

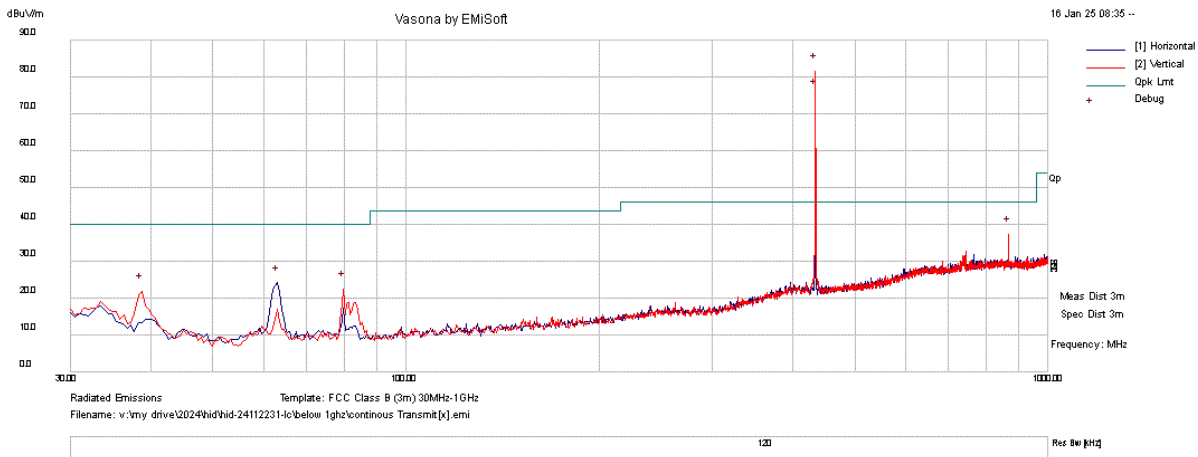
| No. | Frequency MHz | Raw dBuV | Cable Loss dB | AF dB/m | Level dBuV/m | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV/m | Margin dB | Pass/Fail |
|-----|---------------|----------|---------------|---------|--------------|------------------|-----|--------|---------|--------------|-----------|-----------|
| 1   | 433.92        | 70.6     | 6.3           | -2.4    | 74.40        | Peak Max         | H   | 100    | 0       | 100.8        | -23.40    | Pass      |
| 2   | 433.92        | -        | -             | -       | 59.34        | Average Max      | -   | -      | -       | 80.8         | -21.46    | Pass      |
| 3   | 433.92        | 77.7     | 6.3           | -2.4    | 81.50        | Peak Max         | V   | 100    | 0       | 100.8        | -19.30    | Pass      |
| 4   | 433.92        | -        | -             | -       | 66.44        | Average Max      | -   | -      | -       | 80.8         | -14.36    | Pass      |

Remarks:

1. Level (dBuV/m) = Raw (dBuV) + Cable loss(dB) + AF (dB/m).
2. AF (dB/m) = Antenna Factor (dB/m)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)
4. Average= Peak level +Duty cycle factor

## RADIATED EMISSIONS BELOW 1 GHZ

|                        |                                     |                |                             |
|------------------------|-------------------------------------|----------------|-----------------------------|
| Test Standard:         | FCC Part 15.231<br>RSS-210 Issue 11 | Mode:          | Continuous Transmit<br>Mode |
| Frequency Range:       | 30 MHz - 1 GHz                      | Test Date:     | 01/15/2025                  |
| Antenna Type/Polarity: | Bi-Log/Hor & Ver                    | Test Engineer: | Minoush Niknam              |
| Remark:                | EUT is on the X-axis                | Test Result:   | Pass                        |



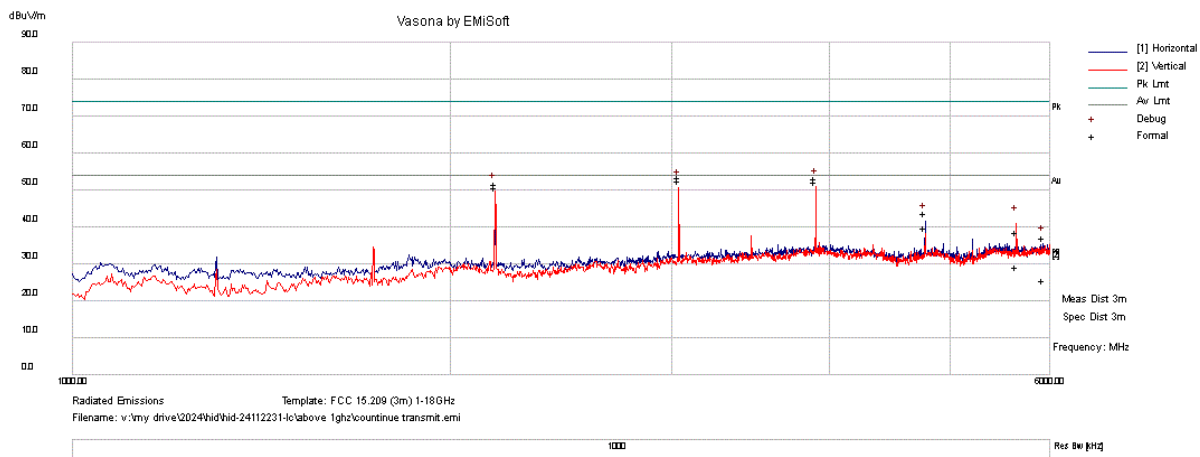
| No. | Frequency MHz | Raw dBuV | Cable Loss dB | AF dB/m | Level dBuV/m | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV/m | Margin dB | Pass/Fail |
|-----|---------------|----------|---------------|---------|--------------|------------------|-----|--------|---------|--------------|-----------|-----------|
| 3   | 62.98         | 34.4     | 3.0           | -13.4   | 24.1         | Peak             | H   | 400    | 0       | 40           | -15.9     | Pass      |
| 4   | 79.955        | 32.3     | 3.3           | -13.3   | 22.4         | Peak             | V   | 100    | 0       | 40           | -17.6     | Pass      |
| 5   | 38.73         | 28.2     | 2.5           | -9.0    | 21.7         | Peak             | V   | 300    | 0       | 40           | -18.3     | Pass      |
| 6   | 868.08        | 25.9     | 7.5           | 3.8     | 37.2         | Peak             | V   | 100    | 0       | 43.5         | -6.3      | Pass      |

Remarks:

1. Level (dBuV/m) = Raw (dBuV) + Cable loss(dB) + AF (dB/m).
2. AF (dB/m) = Antenna Factor (dB/m) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)
4. EUT was tested in three orientations: X, Y, and Z. The worst-case scenario is based on the emissions level recorded along the X-axis, and the report includes only the worst-case data.
5. The detector type used is peak, which is more stringent than the Quasi-Peak detector and is permitted to be used per section 11.12.2.3 of ANSI C63.10 and FCC KDB 720338.
6. A more stringent limit from section 15.209 is applied to demonstrate compliance.

## RADIATED EMISSIONS ABOVE 1 GHZ

|                        |                                     |                |                          |
|------------------------|-------------------------------------|----------------|--------------------------|
| Test Standard:         | FCC Part 15.231<br>RSS-210 Issue 11 | Mode:          | Continuous Transmit Mode |
| Frequency Range:       | 1 GHz – 6 GHz                       | Test Date:     | 01/14/2025               |
| Antenna Type/Polarity: | Horn/Hor & Ver                      | Test Engineer: | Minoush Niknam           |
| Remark:                | EUT is on the X-axis                | Test Result:   | Pass                     |



| No. | Frequency MHz | Raw dBuV | Cable Loss dB | AF dB/m | Level dBuV/m | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV/m | Margin dB | Pass/Fail |
|-----|---------------|----------|---------------|---------|--------------|------------------|-----|--------|---------|--------------|-----------|-----------|
| 1   | 3905.300      | 38.6     | 9.5           | 5.1     | 53.2         | Peak Max         | V   | 109    | 181     | 74.0         | -20.8     | Pass      |
| 2   | 3037.425      | 43.1     | 7.6           | 2.7     | 53.4         | Peak Max         | V   | 100    | 181     | 74.0         | -20.6     | Pass      |
| 3   | 2169.563      | 45.1     | 6.5           | 0.0     | 51.5         | Peak Max         | V   | 136    | 158     | 74.0         | -22.5     | Pass      |
| 4   | 4773.155      | 28.9     | 9.1           | 5.8     | 43.8         | Peak Max         | H   | 112    | 160     | 74.0         | -30.2     | Pass      |
| 5   | 5641.640      | 22.0     | 11.2          | 5.5     | 38.7         | Peak Max         | V   | 177    | 68      | 74.0         | -35.3     | Pass      |
| 6   | 5922.348      | 20.0     | 11.7          | 5.5     | 37.2         | Peak Max         | H   | 161    | 70      | 74.0         | -36.8     | Pass      |
| 7   | 3905.300      | 37.6     | 9.5           | 5.1     | 52.2         | Average Max      | V   | 109    | 181     | 54.0         | -1.8      | Pass      |
| 8   | 3037.425      | 42.2     | 7.6           | 2.7     | 52.5         | Average Max      | V   | 100    | 181     | 54.0         | -1.5      | Pass      |
| 9   | 2169.563      | 44.2     | 6.5           | 0.0     | 50.7         | Average Max      | V   | 136    | 158     | 54.0         | -3.3      | Pass      |
| 10  | 4773.155      | 24.9     | 9.1           | 5.8     | 39.8         | Average Max      | H   | 112    | 160     | 54.0         | -14.2     | Pass      |
| 11  | 5641.640      | 12.4     | 11.2          | 5.5     | 29.1         | Average Max      | V   | 177    | 68      | 54.0         | -24.9     | Pass      |
| 12  | 5922.348      | 8.3      | 11.7          | 5.5     | 25.5         | Average Max      | H   | 161    | 70      | 54.0         | -28.5     | Pass      |

Remarks:

1. Level (dBuV/m) = Raw (dBuV) + Cable loss(dB) + AF (dB/m).
2. AF (dB/m) = Antenna Factor (dB/m) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)
4. High pass filter was used during the testing to eliminate low-frequency noise and interference.
- 5 A more stringent limit from section 15.209 is applied to demonstrate compliance.

## Radiated Emission Between 9KHz and 30 MHz Test Result

Note: No substantial emission is found other than the noise floor. Different modes have been verified.

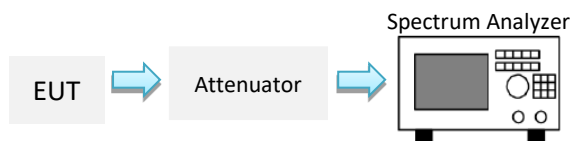
## 7.3 Occupied Bandwidth

### 7.3.1 Requirement

Per § 15.215 (c), RSS Gen-210, Annex A 1.4,

The occupied bandwidth of momentarily operated devices shall be less than or equal to 0.25% of the centre frequency for devices operating between 70 MHz and 900 MHz

### 7.3.2 Test setup



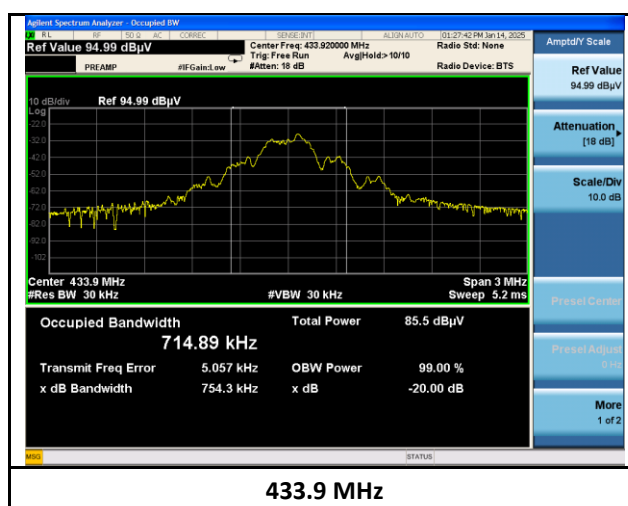
### 7.3.3 Test Procedure

1. Set RBW = 1% to 5% of the actual occupied BW.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Span = large enough to capture all products of the modulation process
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission; or OBW measurement function to determine the 99% occupied bandwidth.

### 7.3.4 Test Result

| Mode              | Frequency (MHz) | 20dB Bandwidth (KHz) | 99% Bandwidth (KHz) | Limit (KHz)<br>≤0.25% of the<br>Center Frequency | Verdict |
|-------------------|-----------------|----------------------|---------------------|--|---------|
| Periodic Transmit | 433.9           | 754.3                | 714.89              | 1084.75  | Pass    |

### 7.3.5 Test Plots





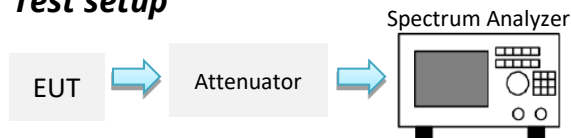
## 7.4 Duty Cycle

### 7.4.1 Requirement

Per § 15.231 (c), RSS Gen 6.7

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

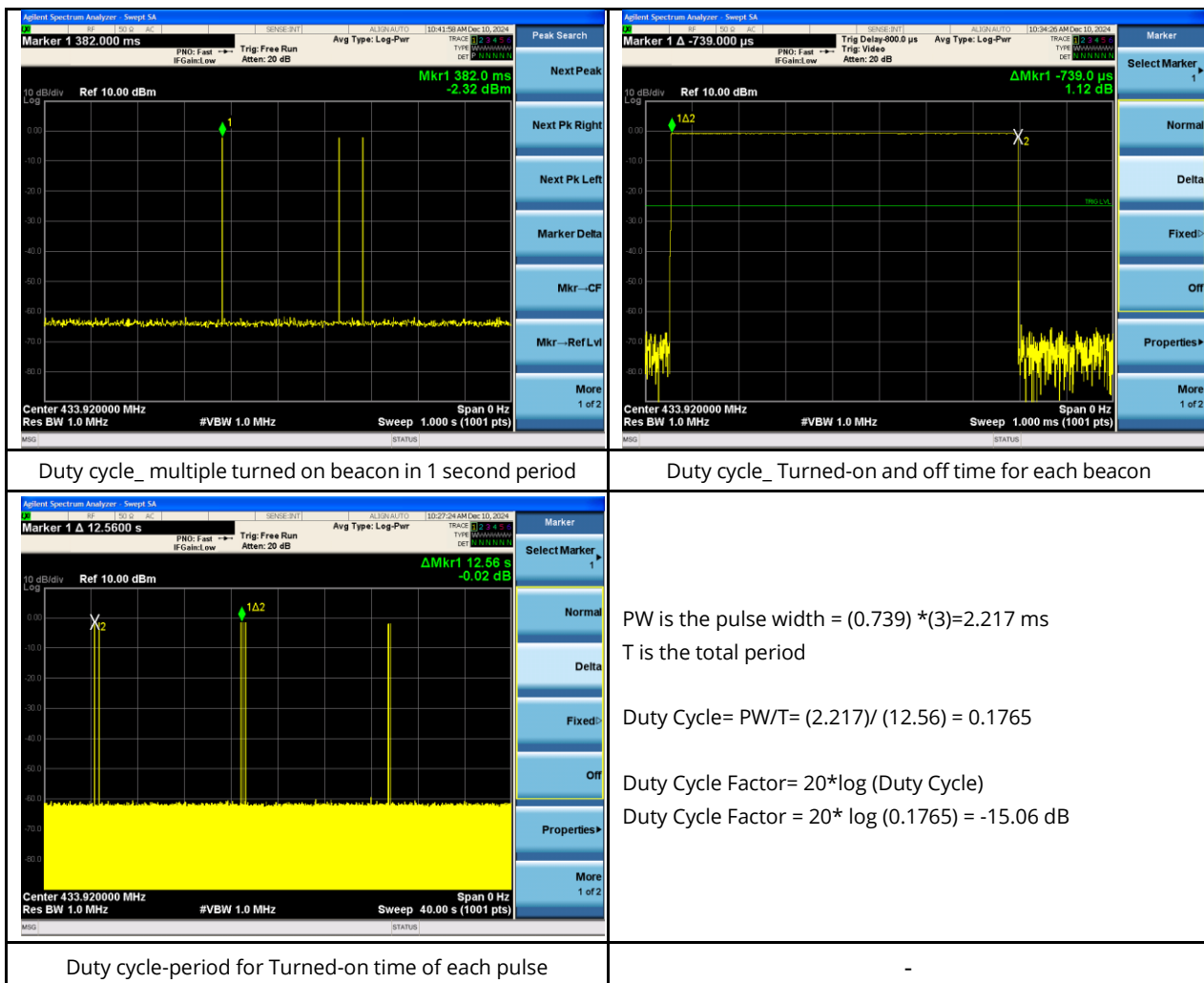
### 7.4.2 Test setup



### 7.4.3 Test Procedure

1. Set RBW = 1% to 5% of the actual occupied BW.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Span = large enough to capture all products of the modulation process
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

## 7.4.4 Test Plots



## 8 Test Instrument List

| Equipment                        | Manufacturer    | Model              | Instrument Number | Cal. Date  | Cal. Due   |
|----------------------------------|-----------------|--------------------|-------------------|------------|------------|
| Semi-Anechoic Chamber            | ETS-Lindgren    | 10M                | VL001             | 10/18/2024 | 10/18/2025 |
| Shielding Control Room           | ETS-Lindgren    | Series 81          | VL006             | N/A        | N/A        |
| Spectrum Analyzer                | Keysight        | N9020A             | MY50110074        | 06/09/2024 | 06/09/2025 |
| EMC Test Receiver                | R&S             | ESL6               | 100230            | 06/07/2024 | 06/07/2025 |
| LISN (9KHz – 30MHz)              | EMCO            | 3816/2             | 9705-1066         | 07/12/2024 | 07/12/2025 |
| Bi-Log Antenna                   | ETS-Lindgren    | 3142E              | 217921            | 07/19/2024 | 07/19/2025 |
| Horn Antenna (1-18GHz)           | Electro-Metrics | EM-6961            | 6292              | 07/21/2024 | 07/21/2025 |
| Horn Antenna (18-40GHz)          | Com-Power       | AH-840             | 101109            | 07/21/2024 | 07/21/2025 |
| Preamplifier                     | RF Bay, Inc.    | LPA-10-20          | 11180621          | 07/16/2024 | 07/16/2025 |
| True RMS Multi-meter             | UNI-T           | UT181A             | C173014829        | 06/07/2024 | 06/07/2025 |
| Temp / Humidity / Pressure Meter | PCE Instruments | PCE-THB 40         | R062028           | 06/07/2024 | 06/07/2025 |
| RF Attenuator                    | Pasternack      | PE7005-3           | VL061             | 07/16/2024 | 07/16/2025 |
| Preamplifier 100KHz - 40GHz      | Aeroflex        | 33711-392-77150-11 | 064               | 07/16/2024 | 07/16/2025 |
| EM Center Control                | ETS-Lindgren    | 7006-001           | 160136            | N/A        | N/A        |
| Turn Table                       | ETS-Lindgren    | 2181-3.03          | VL002             | N/A        | N/A        |
| Boresight Antenna Tower          | ETS-Lindgren    | 2171B              | VL003             | N/A        | N/A        |
| Loop Antenna (9k-30MHz)          | Com-Power       | AL-130             | 121012            | 06/10/2024 | 06/10/2025 |
| RE test cable(below 6GHz)        | Vista           | RE-6GHz-01         | RE-6GHz-01        | 07/16/2024 | 07/16/2025 |
| RE test cable (1-18GHz)          | PhaseTrack      | II-240             | RE-18GHz-01       | 07/16/2024 | 07/16/2025 |
| RE test cable (>18GHz)           | Sucoflex        | 104                | 344903/4          | 07/16/2024 | 07/16/2025 |
| Pulse limiter                    | Com-Power       | LIT-930A           | 531727            | 07/16/2024 | 07/16/2025 |
| CE test cable #1                 | FIRST RF        | FRF-C-1002-001     | CE-6GHz-01        | 07/16/2024 | 07/16/2025 |
| CE test cable#2                  | FIRST RF        | FRF-C-1002-001     | CE-6GHz-02        | 07/16/2024 | 07/16/2025 |

Note:

- 1) This equipment is not for measurement purpose and only require functional verification. Calibration is not required.

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