



# FCC RADIO TEST REPORT

**FCC ID** : UZ7TCX01G  
**Equipment** : Touch Computer  
**Brand Name** : ZEBRA  
**Model Name** : TCX01G  
**Marketing Name** : TCX01G  
**Applicant** : Zebra Technologies Corporation  
3 Overlook Point, Lincolnshire, IL 60069  
USA  
**Manufacturer** : Zebra Technologies Corporation  
3 Overlook Point, Lincolnshire, IL 60069  
USA  
**Standard** : FCC 47 CFR Part 2, 96

The product was received on Jul. 14, 2026 and testing was performed from Sep. 06, 2026 to Sep. 20, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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## History of this test report

| Report No. | Version | Description                                                                                                         | Issue Date    |
|------------|---------|---------------------------------------------------------------------------------------------------------------------|---------------|
| FG662706E  | 01      | Initial issue of report                                                                                             | Sep. 29, 2026 |
| FG662706E  | 02      | Revise the summary description.<br>This report is an updated version, replacing the report issued on Sep. 29, 2026. | Oct. 01, 2026 |
|            |         |                                                                                                                     |               |
|            |         |                                                                                                                     |               |
|            |         |                                                                                                                     |               |
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|            |         |                                                                                                                     |               |
|            |         |                                                                                                                     |               |
|            |         |                                                                                                                     |               |
|            |         |                                                                                                                     |               |
|            |         |                                                                                                                     |               |
|            |         |                                                                                                                     |               |
|            |         |                                                                                                                     |               |
|            |         |                                                                                                                     |               |



## Summary of Test Result

| Report Clause | Ref Std. Clause   | Test Items                                       | Result (PASS/FAIL) | Remark                                     |
|---------------|-------------------|--------------------------------------------------|--------------------|--------------------------------------------|
| -             | §2.1046           | Conducted Output Power                           | Pass               | See Note                                   |
| -             | §96.41            | Peak-to-Average Ratio                            | Pass               | See Note                                   |
| -             | §96.41            | Effective Isotropic Radiated Power<br>TRP        | Pass               | See Note                                   |
|               |                   | Power Density                                    | Pass               | See Note                                   |
| -             | §2.1049           | Occupied Bandwidth                               | Pass               | See Note                                   |
| -             | §2.1051<br>§96.41 | Conducted Band Edge Measurement                  | Pass               | See Note                                   |
| -             | §2.1051<br>§96.41 | Conducted Spurious Emission                      | Pass               | See Note                                   |
| -             | §2.1055           | Frequency Stability for<br>Temperature & Voltage | Pass               | See Note                                   |
| 3.4           | §2.1053<br>§96.41 | Radiated Spurious Emission                       | Pass               | 3.80 dB<br>under the limit at<br>17761 MHz |

**Remark:**

The changes filed under this application are:

1. Remove one antenna. All antennas are slightly tuned to optimize best performance.
2. USB Sub-board: Redesigned to accommodate an additional speaker.
3. Pogo pins change from 2 to 6 for USB high speed transmission.
4. Hall sensor is added.
5. Add new HVIN TC70UG for the changed device.

All the test cases were performed on original report which can be referred to Sporton Report Number FG503114E. Based on the original report, radiated emission verification was performed on the worst-case scenarios for both low and high bands, as all antennas were slightly tuned to optimize performance.

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Wei Chen**

**Report Producer: Julia Chang**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Touch Computer                                                                                                                                                                        |
| Brand Name                      | ZEBRA                                                                                                                                                                                 |
| Model Name                      | TCX01G                                                                                                                                                                                |
| FCC ID                          | UZ7TCX01G                                                                                                                                                                             |
| EUT supports Radios application | Bluetooth BR/EDR/LE<br>WLAN 11a/b/g/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80/VHT160<br>WLAN 11ax HE20/HE40/HE80/HE160<br>WLAN 11be EHT20/ EHT40/EHT80/EHT160/EHT320<br>NFC/UHF RFID |
| FW Version                      | eris_A15_userdebug_GMS_RelKey_2026-07-31-203909_pilot_SE                                                                                                                              |
| SW Version                      | eris_A15_userdebug_GMS_RelKey_2026-07-31-203909_pilot_SE                                                                                                                              |
| MFD                             | 05JUN26                                                                                                                                                                               |
| EUT Stage                       | Identical Prototype                                                                                                                                                                   |

| Support band and evaluated information |                                |
|----------------------------------------|--------------------------------|
| Supported band                         | n48,n77, n78                   |
| Evaluated and Tested band              | n48, (Verity original report ) |

| TDD band Power Class |     |     |  |  |
|----------------------|-----|-----|--|--|
|                      | PC3 | PC2 |  |  |
| N48                  | V   |     |  |  |
| N77                  | V   |     |  |  |
| N78                  | V   |     |  |  |

| Specification of Accessories            |            |       |             |                    |
|-----------------------------------------|------------|-------|-------------|--------------------|
| AC Adapter 1<br>(TYPE C Wall Charger 1) | Brand Name | Zebra | Part Number | PWR-WUA5V45W1US    |
| AC Adapter 2<br>(TYPE A Wall Charger 2) | Brand Name | Zebra | Part Number | PWR-WUA5V12W0US    |
| Soft Holster                            | Brand Name | Zebra | Part Number | SG-TC7AU-HLSTR-01  |
| Earphone 1<br>(Wired headset USB-C)     | Brand Name | Zebra | Part Number | HDST-USBC-PTT1-01  |
| Earphone 2<br>(3.5mm PTT Headset)       | Brand Name | Zebra | Part Number | HDST-35MM-PTT1-01  |
| Earphone 3<br>(Rugged Headset)          | Brand Name | Zebra | Part Number | HS2100-OTH         |
| Battery                                 | Brand Name | Zebra | Part Number | BT-000542-502A     |
| 3.5mm to 3.5mm audio connector          | Brand Name | Zebra | Part Number | CBL-HS2100-3MS1-01 |
| USB Cable 1<br>USB-C to C Cable         | Brand Name | Zebra | Part Number | CBL-EC5X-USBC3A-01 |
| USB Cable 2<br>USB-A to C Cable         | Brand Name | Zebra | Part Number | CBL-TC2X-USBC-01   |
| Seneca Belt Clip                        | Brand Name | Zebra | Part Number | SG-TC7AU-BELT-01   |
| Seneca Clip Adaptor                     | Brand Name | Zebra | Part Number | SG-TC7AU-BELT-02   |
| Seneca Clip J-Hook                      | Brand Name | Zebra | Part Number | SG-TC7AU-BELT-03   |
| Seneca hand strap                       | Brand Name | Zebra | Part Number | SG-TC7AU-HDSTP-01  |

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.



### 1.3 Testing Site

|                       |                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site             | Sporton International Inc. Wensan Laboratory                                                                                                     |
| Test Site Location    | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City 333010, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| Test Site No.         | <b>Sporton Site No.</b><br>03CH20-HY                                                                                                             |
| Test Engineer         | John Chuang 、 David Dai 、 Sam Chou                                                                                                               |
| Temperature (°C )     | 18.6~20.4                                                                                                                                        |
| Relative Humidity (%) | 65.7~70.2                                                                                                                                        |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW3786

### 1.4 Applied Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report..

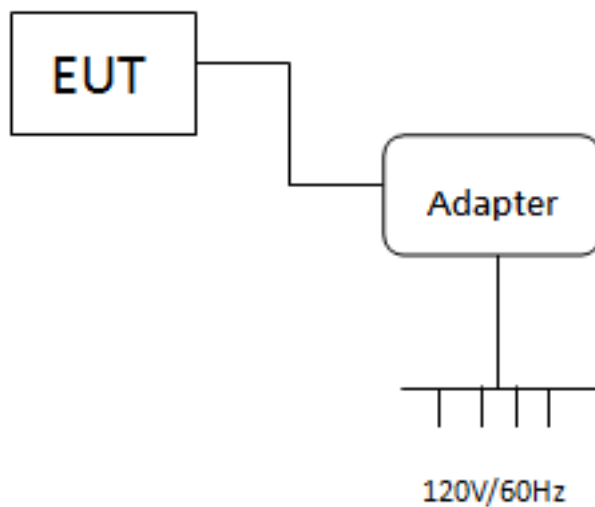
| Modulation Type | Modulation           | Modulation Type | Modulation     |
|-----------------|----------------------|-----------------|----------------|
| A               | DFT-s-OFDM pi/2 BPSK | N/A             | N/A            |
| B               | DFT-s-OFDM QPSK      | F               | CP-OFDM QPSK   |
| C               | DFT-s-OFDM 16QAM     | G               | CP-OFDM 16QAM  |
| D               | DFT-s-OFDM 64QAM     | H               | CP-OFDM 64QAM  |
| E               | DFT-s-OFDM 256QAM    | I               | CP-OFDM 256QAM |

| Test Item | Modulation Type | Bandwidth | RB Size   | Channel |
|-----------|-----------------|-----------|-----------|---------|
| RSE       | A,F             | Maximum   | Inner_1RB | L, M, H |

**Remark:**

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
3. All the radiated test cases were performed with Adapter 1 and USB Cable 1.
4. One representative bandwidth is selected to perform PAR and frequency stability.
5. Device 5G NR support SA &NSA Mode, are verified and the worst case is SA mode. Therefore, the report only performed SA test results.
6. 5G NR N48/N77/78 support SA mode Antenna 8 and NSA mode Antenna 9, MIMO mode Antenna 8+9 . Radiated Spurious Emission is full test. Conducted test items are verified and the worst case is Antenna 8, Antenna 9, Antenna 8+9. Therefore, the report only performed Antenna 8&9 test results.

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment    | Brand Name | Model No.    | FCC ID | Data Cable | Power Cord |
|------|--------------|------------|--------------|--------|------------|------------|
| 1.   | Notebook     | DELL       | Latitude5310 | N/A    | N/A        | N/A        |
| 2.   | Base Station | Anritsu    | MT8821C      | N/A    | N/A        | N/A        |
| 3.   | Base Station | Anritsu    | MT8000A      | N/A    | N/A        | N/A        |



## 2.4 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.5 dB and 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.5 + 10 = 14.5 \text{ (dB)}\end{aligned}$$

## 2.5 Frequency List of Low/Middle/High Channels

| 5G NR Band 48 Channel and Frequency List (Part96) |                        |         |         |         |
|---------------------------------------------------|------------------------|---------|---------|---------|
| BW [MHz]                                          | Channel/Frequency(MHz) | Lowest  | Middle  | Highest |
| 40                                                | Channel                | 638000  | 641666  | 645332  |
|                                                   | Frequency              | 3570    | 3624.99 | 3679.98 |
| 30                                                | Channel                | 637668  | 641666  | 645666  |
|                                                   | Frequency              | 3565.02 | 3624.99 | 3684.99 |
| 20                                                | Channel                | 637334  | 641666  | 646000  |
|                                                   | Frequency              | 3560.01 | 3624.99 | 3690    |
| 15                                                | Channel                | 637168  | 641666  | 646166  |
|                                                   | Frequency              | 3557.52 | 3624.99 | 3692.49 |
| 10                                                | Channel                | 637000  | 641666  | 646332  |
|                                                   | Frequency              | 3555    | 3624.99 | 3694.98 |



| 5G NR Band 77 Channel and Frequency List (Part96) |                        |         |         |         |
|---------------------------------------------------|------------------------|---------|---------|---------|
| BW [MHz]                                          | Channel/Frequency(MHz) | Lowest  | Middle  | Highest |
| 100                                               | Channel                | 640000  | 641666  | 643332  |
|                                                   | Frequency              | 3600    | 3624.99 | 3649.98 |
| 90                                                | Channel                | 639668  | 641666  | 643666  |
|                                                   | Frequency              | 3595.02 | 3624.99 | 3654.99 |
| 80                                                | Channel                | 639334  | 641666  | 644000  |
|                                                   | Frequency              | 3590.01 | 3624.99 | 3660    |
| 70                                                | Channel                | 639000  | 641666  | 644332  |
|                                                   | Frequency              | 3585    | 3624.99 | 3664.98 |
| 60                                                | Channel                | 638668  | 641666  | 644666  |
|                                                   | Frequency              | 3580.02 | 3624.99 | 3669.99 |
| 50                                                | Channel                | 638334  | 641666  | 645000  |
|                                                   | Frequency              | 3575.01 | 3624.99 | 3675    |
| 40                                                | Channel                | 638000  | 641666  | 645332  |
|                                                   | Frequency              | 3570    | 3624.99 | 3679.98 |
| 30                                                | Channel                | 637668  | 641666  | 645666  |
|                                                   | Frequency              | 3565.02 | 3624.99 | 3684.99 |
| 20                                                | Channel                | 637334  | 641666  | 646000  |
|                                                   | Frequency              | 3560.01 | 3624.99 | 3690    |
| 15                                                | Channel                | 637168  | 641666  | 646166  |
|                                                   | Frequency              | 3557.52 | 3624.99 | 3692.49 |
| 10                                                | Channel                | 637000  | 641666  | 646332  |
|                                                   | Frequency              | 3555    | 3624.99 | 3694.98 |



| 5G NR Band 78 Channel and Frequency List (Part96) |                        |         |         |         |
|---------------------------------------------------|------------------------|---------|---------|---------|
| BW [MHz]                                          | Channel/Frequency(MHz) | Lowest  | Middle  | Highest |
| 100                                               | Channel                | 640000  | 641666  | 643332  |
|                                                   | Frequency              | 3600    | 3624.99 | 3649.98 |
| 90                                                | Channel                | 639668  | 641666  | 643666  |
|                                                   | Frequency              | 3595.02 | 3624.99 | 3654.99 |
| 80                                                | Channel                | 639334  | 641666  | 644000  |
|                                                   | Frequency              | 3590.01 | 3624.99 | 3660    |
| 70                                                | Channel                | 639000  | 641666  | 644332  |
|                                                   | Frequency              | 3585    | 3624.99 | 3664.98 |
| 60                                                | Channel                | 638668  | 641666  | 644666  |
|                                                   | Frequency              | 3580.02 | 3624.99 | 3669.99 |
| 50                                                | Channel                | 638334  | 641666  | 645000  |
|                                                   | Frequency              | 3575.01 | 3624.99 | 3675    |
| 40                                                | Channel                | 638000  | 641666  | 645332  |
|                                                   | Frequency              | 3570    | 3624.99 | 3679.98 |
| 30                                                | Channel                | 637668  | 641666  | 645666  |
|                                                   | Frequency              | 3565.02 | 3624.99 | 3684.99 |
| 20                                                | Channel                | 637334  | 641666  | 646000  |
|                                                   | Frequency              | 3560.01 | 3624.99 | 3690    |
| 15                                                | Channel                | 637168  | 641666  | 646166  |
|                                                   | Frequency              | 3557.52 | 3624.99 | 3692.49 |
| 10                                                | Channel                | 637000  | 641666  | 646332  |
|                                                   | Frequency              | 3555    | 3624.99 | 3694.98 |

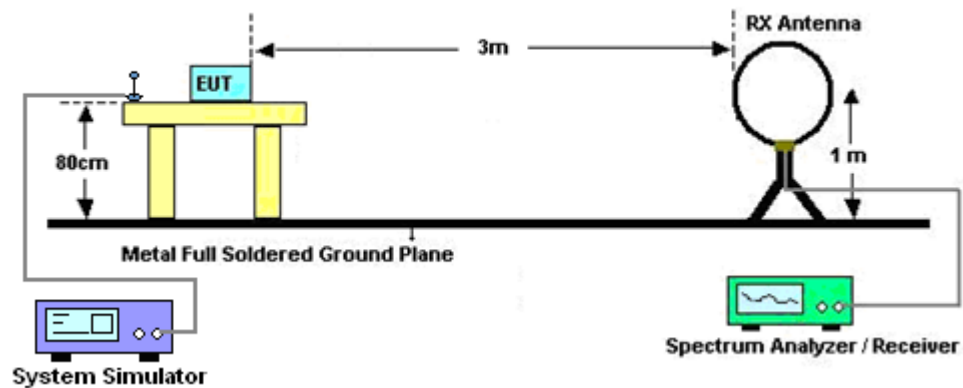
### 3 Radiated Test Items

#### 3.1 Measuring Instruments

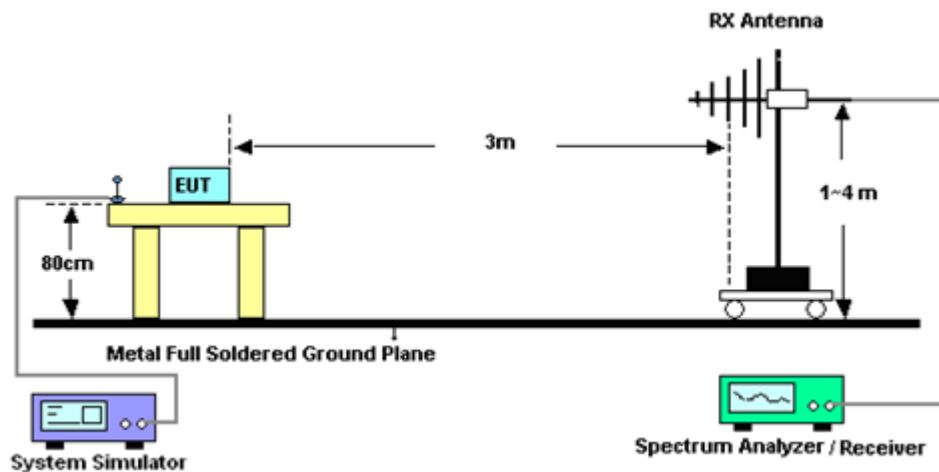
See list of measuring instruments of this test report.

#### 3.2 Test Setup

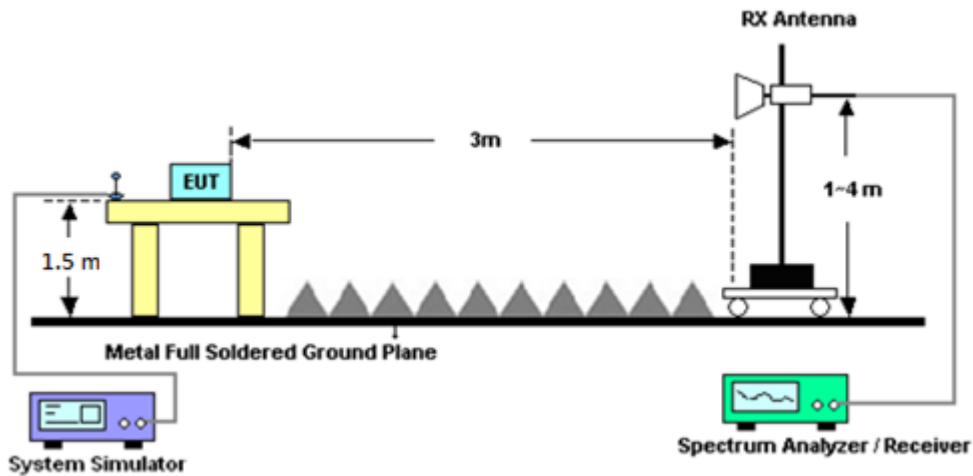
For radiated test below 30MHz



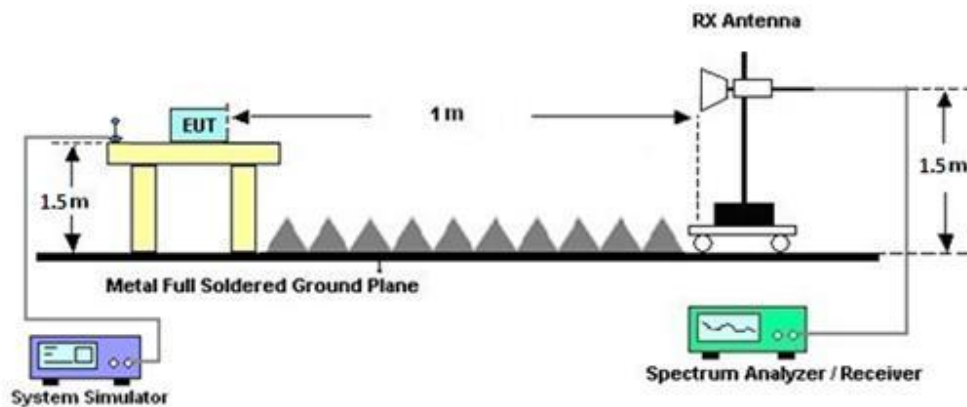
For radiated test from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



### 3.3 Test Result of Radiated Test

Please refer to Appendix B.

#### Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



### **3.4 Radiated Spurious Emission**

#### **3.4.1 Description of Radiated Spurious Emission**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### **3.4.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.7 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. To convert spectrum reading E(dBuV/m) to EIRP(dBm)  
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
8. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
9. ERP (dBm) = EIRP (dBm) - 2.15
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



## 4 List of Measuring Equipment

| Instrument           | Brand Name      | Model No.                   | Serial No.                 | Characteristics               | Calibration Date | Test Date                           | Due Date      | Remark                   |
|----------------------|-----------------|-----------------------------|----------------------------|-------------------------------|------------------|-------------------------------------|---------------|--------------------------|
| EMI Test Receiver    | Keysight        | N9038A(MXE )                | MY54130085                 | N/A                           | Oct. 16, 2025    | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | Oct. 15, 2026 | Radiation<br>(03CH20-HY) |
| Loop Antenna         | Rohde & Schwarz | HFH2-Z2E                    | 101108                     | 9 kHz~30 MHz                  | Dec. 11, 2025    | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | Dec. 10, 2026 | Radiation<br>(03CH20-HY) |
| Preamplifier         | EMEC            | EM18G40G                    | 060872                     | 18GHz~40GHz                   | Dec. 02, 2025    | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | Dec. 01, 2026 | Radiation<br>(03CH20-HY) |
| Controller           | ChainTek        | 3000-1                      | N/A                        | Control Turn table & Ant Mast | N/A              | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | N/A           | Radiation<br>(03CH20-HY) |
| Antenna Mast         | ChainTek        | MBS-520-1                   | N/A                        | 1m~4m                         | N/A              | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | N/A           | Radiation<br>(03CH20-HY) |
| Turn Table           | ChainTek        | T-200-S-1                   | N/A                        | 0~360 Degree                  | N/A              | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | N/A           | Radiation<br>(03CH20-HY) |
| Signal Analyzer      | Keysight        | N9010B                      | MY60240520                 | 10Hz~44GHz                    | Dec. 10, 2025    | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | Dec. 09, 2026 | Radiation<br>(03CH20-HY) |
| Bilog Antenna        | TESEQ           | CBL 6111D & 00802N1D01 N-06 | 47020 & 06                 | 30MHz~1GHz                    | Oct. 04, 2025    | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | Oct. 03, 2026 | Radiation<br>(03CH20-HY) |
| Horn Antenna         | SCHWARZBECK     | BBHA 9120 D                 | 02360                      | 1GHz-18GHz                    | Nov. 05, 2025    | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | Nov. 04, 2026 | Radiation<br>(03CH20-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK     | BBHA 9170                   | 1230                       | 18GHz-40GHz                   | Nov. 05, 2025    | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | Nov. 04, 2026 | Radiation<br>(03CH20-HY) |
| Preamplifier         | COM-POWER       | PAM-103                     | 18020201                   | 1MHz-1000MHz                  | Dec. 30, 2025    | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | Dec. 29, 2026 | Radiation<br>(03CH20-HY) |
| Amplifier            | EMCI            | EMC118A45SE                 | 980792                     | N/A                           | Nov. 11, 2025    | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | Nov. 10, 2026 | Radiation<br>(03CH20-HY) |
| RF Cable             | HUBER + SUHNER  | SUCOFLEX 102                | 519229/2,804015/2,25104239 | N/A                           | Apr. 13, 2026    | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | Apr. 12, 2027 | Radiation<br>(03CH20-HY) |
| Hygrometer           | TECPEL          | DTM-303A                    | TP211568                   | N/A                           | Oct. 21, 2025    | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | Oct. 20, 2026 | Radiation<br>(03CH20-HY) |
| Software             | Audix           | N/A                         | RK-002156                  | N/A                           | N/A              | Sep. 06, 2026<br>~<br>Sep. 20, 2026 | N/A           | Radiation<br>(03CH20-HY) |

**Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

|                                                                          |        |
|--------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 6.5 dB |
|--------------------------------------------------------------------------|--------|

**Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)**

|                                                                          |         |
|--------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 4.70 dB |
|--------------------------------------------------------------------------|---------|

**Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)**

|                                                                          |         |
|--------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 5.70 dB |
|--------------------------------------------------------------------------|---------|

**Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)**

|                                                                          |         |
|--------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 5.20 dB |
|--------------------------------------------------------------------------|---------|



## Appendix A. Radiated Spurious Emission Test Data

|                        |                                |                              |           |
|------------------------|--------------------------------|------------------------------|-----------|
| <b>Test Engineer :</b> | John Chuang、David Dai、Sam Chou | <b>Relative Humidity(%):</b> | 65.7~70.2 |
|                        |                                | <b>Temperature(°C):</b>      | 18.6~20.4 |

### A1. Summary of each worse mode

| Mode | Band      | Part    | Ch | Freq<br>(MHz) | Level<br>(dBm) | Det | Ant Factor<br>(dB) | AmplCbl<br>(dB) | Filter<br>(dB) | EIRPCF<br>(dB) | Reading<br>(dBuV) | Limit<br>(dBm) | Margin<br>(dB) | Pol | Ant |
|------|-----------|---------|----|---------------|----------------|-----|--------------------|-----------------|----------------|----------------|-------------------|----------------|----------------|-----|-----|
| 2    | NR SA n48 | Part 96 | L  | 17761         | -43.80         | RMS | 39.99              | -23.82          | 0.60           | -95.23         | 34.66             | -40.00         | -3.80          | V   | 8   |

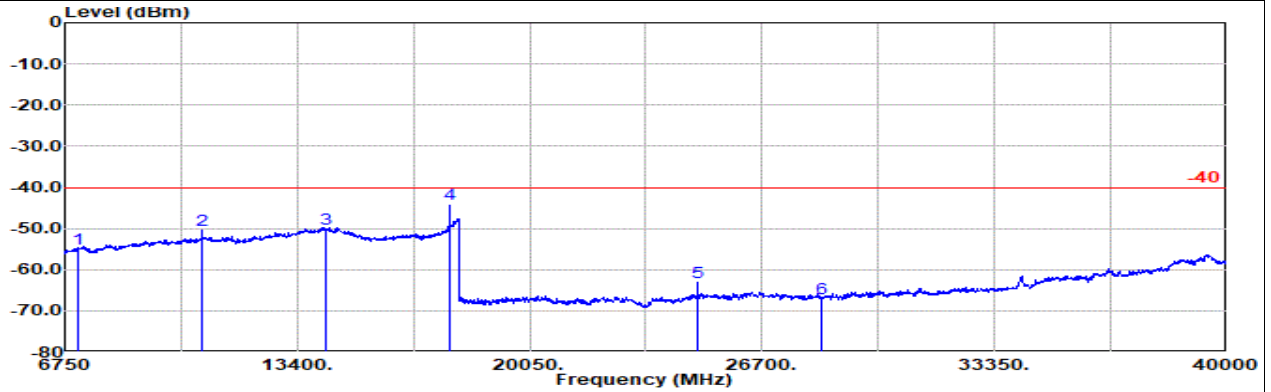


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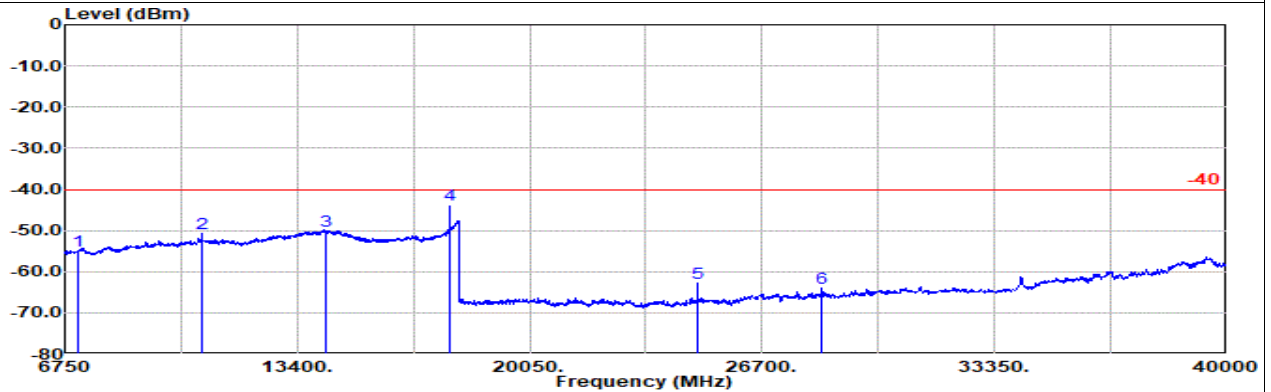
## Part 96 Mode 2

NR SA n48 40M Ch638000 1RB1 BPSK

L



|   | Freq     | Level  | Detector | Ant Factor | Amp\Cb |       | Filter | EIRPCF | Readin | Limit  | Margin     | Pol |
|---|----------|--------|----------|------------|--------|-------|--------|--------|--------|--------|------------|-----|
|   |          |        |          |            | dB/m   | dB    |        |        |        |        |            |     |
|   | MHz      | dBm    |          |            |        |       | dB     | dB     | dBuV   | dBm    | dB         |     |
| 1 | 7104.00  | -54.98 | RMS      | 36.42      | -24.45 | 1.26  | -95.23 | 27.02  | -40.00 | -14.98 | Horizontal |     |
| 2 | 10656.00 | -50.44 | RMS      | 39.19      | -24.91 | 0.65  | -95.23 | 29.86  | -40.00 | -10.44 | Horizontal |     |
| 3 | 14209.00 | -50.23 | RMS      | 40.26      | -24.68 | 0.88  | -95.23 | 28.54  | -40.00 | -10.23 | Horizontal |     |
| 4 | 17761.00 | -44.22 | RMS      | 39.99      | -23.82 | 0.60  | -95.23 | 34.24  | -40.00 | -4.22  | Horizontal |     |
| 5 | 24866.00 | -63.13 | RMS      | 39.27      | -35.25 | -9.54 | -95.23 | 37.62  | -40.00 | -23.13 | Horizontal |     |
| 6 | 28418.00 | -67.08 | RMS      | 40.00      | -35.25 | -9.54 | -95.23 | 32.94  | -40.00 | -27.08 | Horizontal |     |



|   | Freq     | Level  | Detector | Ant Factor | Amp\Cb |       | Filter | EIRPCF | Readin | Limit  | Margin   | Pol |
|---|----------|--------|----------|------------|--------|-------|--------|--------|--------|--------|----------|-----|
|   |          |        |          |            | dB/m   | dB    |        |        |        |        |          |     |
|   | MHz      | dBm    |          |            |        |       | dB     | dB     | dBuV   | dBm    | dB       |     |
| 1 | 7104.00  | -55.02 | RMS      | 36.42      | -24.45 | 1.26  | -95.23 | 26.98  | -40.00 | -15.02 | Vertical |     |
| 2 | 10656.00 | -50.85 | RMS      | 39.19      | -24.91 | 0.65  | -95.23 | 29.45  | -40.00 | -10.85 | Vertical |     |
| 3 | 14209.00 | -50.22 | RMS      | 40.26      | -24.68 | 0.88  | -95.23 | 28.55  | -40.00 | -10.22 | Vertical |     |
| 4 | 17761.00 | -43.80 | RMS      | 39.99      | -23.82 | 0.60  | -95.23 | 34.66  | -40.00 | -3.80  | Vertical |     |
| 5 | 24866.00 | -62.70 | RMS      | 39.27      | -35.25 | -9.54 | -95.23 | 38.05  | -40.00 | -22.70 | Vertical |     |
| 6 | 28418.00 | -64.02 | RMS      | 40.00      | -35.25 | -9.54 | -95.23 | 36.00  | -40.00 | -24.02 | Vertical |     |

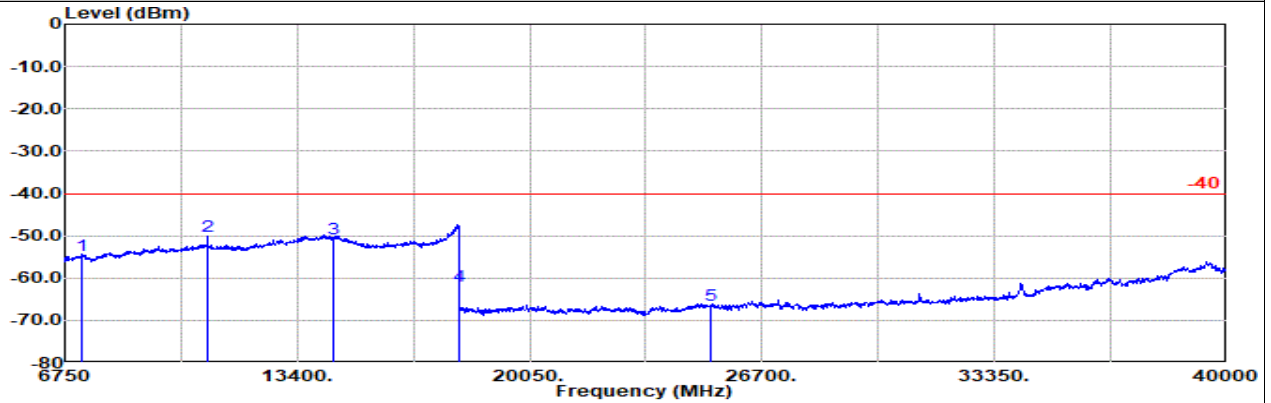


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## Part 96 Mode 2

NR SA n48 40M Ch641666 1RB1 BPSK

M

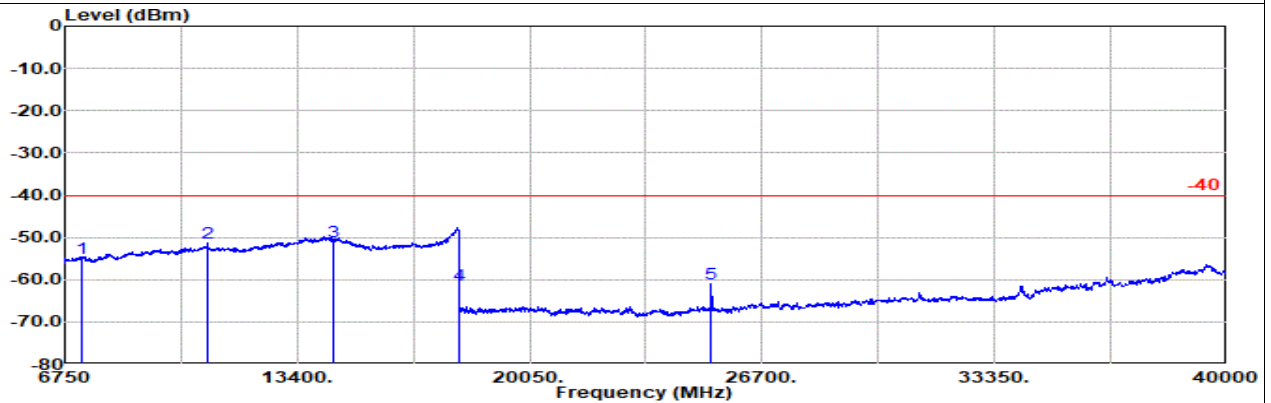


Site : 03CH20-HY

Condition: -40 1m BBHA9170\_1230\_251105 Horizontal

: NR SA n48 40M Ch645332 1RB1 BPSK

|   | Freq     | Level  | Detector | Ant<br>Factor | Amp\Cb<br>1 | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol        |
|---|----------|--------|----------|---------------|-------------|--------|--------|-------------|--------|--------|------------|
|   | MHz      | dBm    |          | dB/m          | dB          | dB     | dB     | dBuV        | dBm    | dB     |            |
| 1 | 7214.00  | -54.67 | RMS      | 36.86         | -24.46      | 1.10   | -95.23 | 27.06       | -40.00 | -14.67 | Horizontal |
| 2 | 10821.00 | -50.14 | RMS      | 39.06         | -24.90      | 0.66   | -95.23 | 30.27       | -40.00 | -10.14 | Horizontal |
| 3 | 14429.00 | -50.62 | RMS      | 39.94         | -24.73      | 0.85   | -95.23 | 28.55       | -40.00 | -10.62 | Horizontal |
| 4 | 18036.00 | -62.02 | RMS      | 37.46         | -46.48      | -9.54  | -95.23 | 51.77       | -40.00 | -22.02 | Horizontal |
| 5 | 25250.00 | -66.32 | RMS      | 39.30         | -35.09      | -9.54  | -95.23 | 34.24       | -40.00 | -26.32 | Horizontal |



Site : 03CH20-HY

Condition: -40 1m BBHA9170\_1230\_251105 Vertical

: NR SA n48 40M Ch645332 1RB1 BPSK

|   | Freq     | Level  | Detector | Ant<br>Factor | Amp\Cb<br>l | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol      |
|---|----------|--------|----------|---------------|-------------|--------|--------|-------------|--------|--------|----------|
|   | MHz      | dBm    |          | dB/m          | dB          | dB     | dB     | dBuV        | dBm    | dB     |          |
| 1 | 7214.00  | -54.84 | RMS      | 36.86         | -24.46      | 1.10   | -95.23 | 26.89       | -40.00 | -14.84 | Vertical |
| 2 | 10821.00 | -51.18 | RMS      | 39.06         | -24.90      | 0.66   | -95.23 | 29.23       | -40.00 | -11.18 | Vertical |
| 3 | 14429.00 | -51.02 | RMS      | 39.94         | -24.73      | 0.85   | -95.23 | 28.15       | -40.00 | -11.02 | Vertical |
| 4 | 18036.00 | -61.32 | RMS      | 37.46         | -46.48      | -9.54  | -95.23 | 52.47       | -40.00 | -21.32 | Vertical |
| 5 | 25250.00 | -60.98 | RMS      | 39.30         | -35.09      | -9.54  | -95.23 | 39.58       | -40.00 | -20.98 | Vertical |

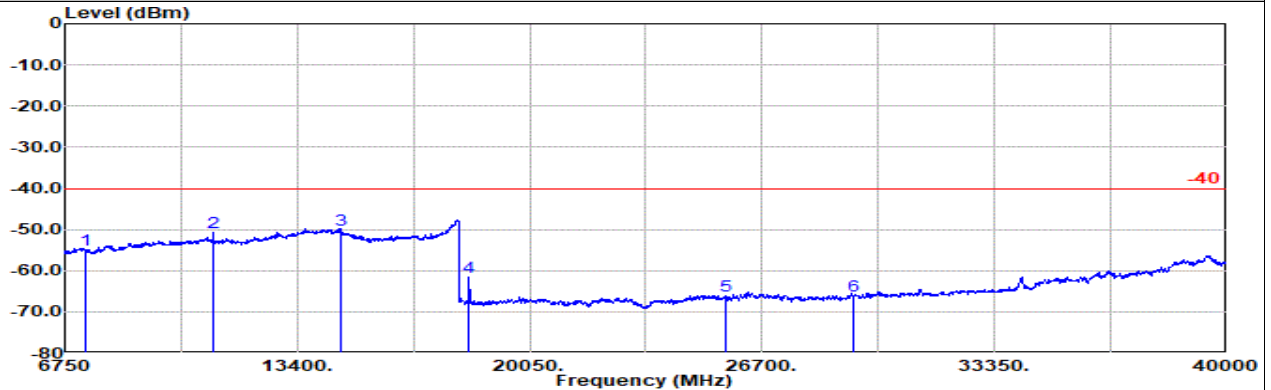


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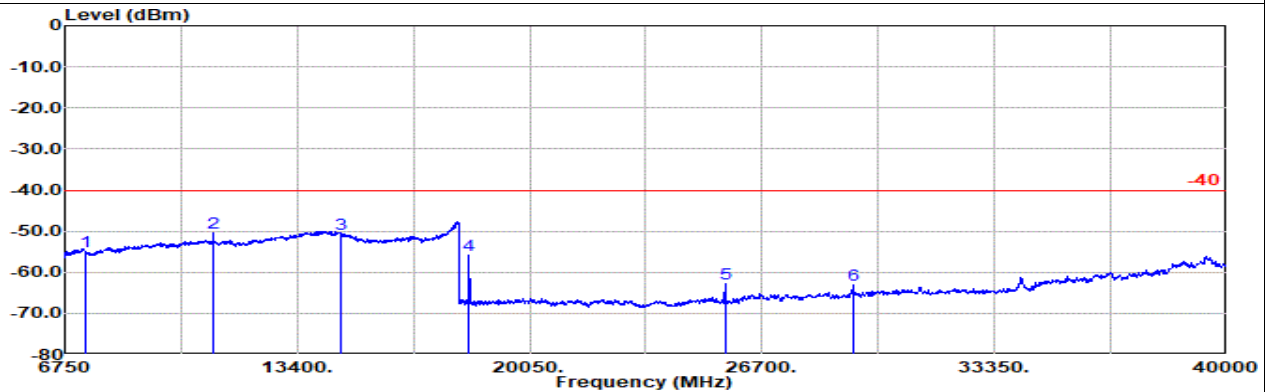
## Part 96 Mode 2

NR SA n48 40M Ch645332 1RB1 BPSK

H



| Freq | Level    | Detector   | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|------|----------|------------|------------|--------|----------|--------|----------|--------|--------|------------|
| MHz  | dBm      |            |            |        |          |        |          |        |        |            |
| 1    | 7324.00  | -54.98 RMS | 36.76      | -24.43 | 1.05     | -95.23 | 26.87    | -40.00 | -14.98 | Horizontal |
| 2    | 10986.00 | -50.63 RMS | 38.93      | -24.89 | 0.66     | -95.23 | 29.90    | -40.00 | -10.63 | Horizontal |
| 3    | 14649.00 | -50.14 RMS | 40.10      | -24.82 | 0.82     | -95.23 | 28.99    | -40.00 | -10.14 | Horizontal |
| 4    | 18311.00 | -61.63 RMS | 37.72      | -46.12 | -9.54    | -95.23 | 51.54    | -40.00 | -21.63 | Horizontal |
| 5    | 25636.00 | -66.06 RMS | 38.81      | -35.08 | -9.54    | -95.23 | 34.98    | -40.00 | -26.06 | Horizontal |
| 6    | 29298.00 | -66.14 RMS | 40.40      | -35.59 | -9.54    | -95.23 | 33.82    | -40.00 | -26.14 | Horizontal |



| Freq | Level    | Detector   | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|------|----------|------------|------------|--------|----------|--------|----------|--------|--------|----------|
| MHz  | dBm      |            |            |        |          |        |          |        |        |          |
| 1    | 7324.00  | -54.84 RMS | 36.76      | -24.43 | 1.05     | -95.23 | 27.01    | -40.00 | -14.84 | Vertical |
| 2    | 10986.00 | -50.56 RMS | 38.93      | -24.89 | 0.66     | -95.23 | 29.97    | -40.00 | -10.56 | Vertical |
| 3    | 14649.00 | -50.77 RMS | 40.10      | -24.82 | 0.82     | -95.23 | 28.36    | -40.00 | -10.77 | Vertical |
| 4    | 18311.00 | -55.93 RMS | 37.72      | -46.12 | -9.54    | -95.23 | 57.24    | -40.00 | -15.93 | Vertical |
| 5    | 25636.00 | -62.83 RMS | 38.81      | -35.08 | -9.54    | -95.23 | 38.21    | -40.00 | -22.83 | Vertical |
| 6    | 29298.00 | -63.13 RMS | 40.40      | -35.59 | -9.54    | -95.23 | 36.83    | -40.00 | -23.13 | Vertical |

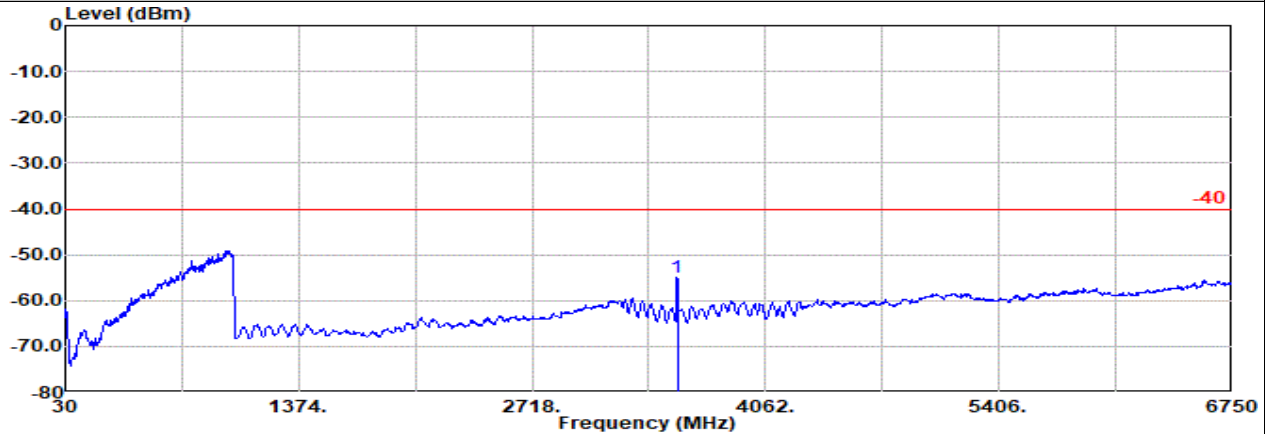


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## Part 96 Mode 2

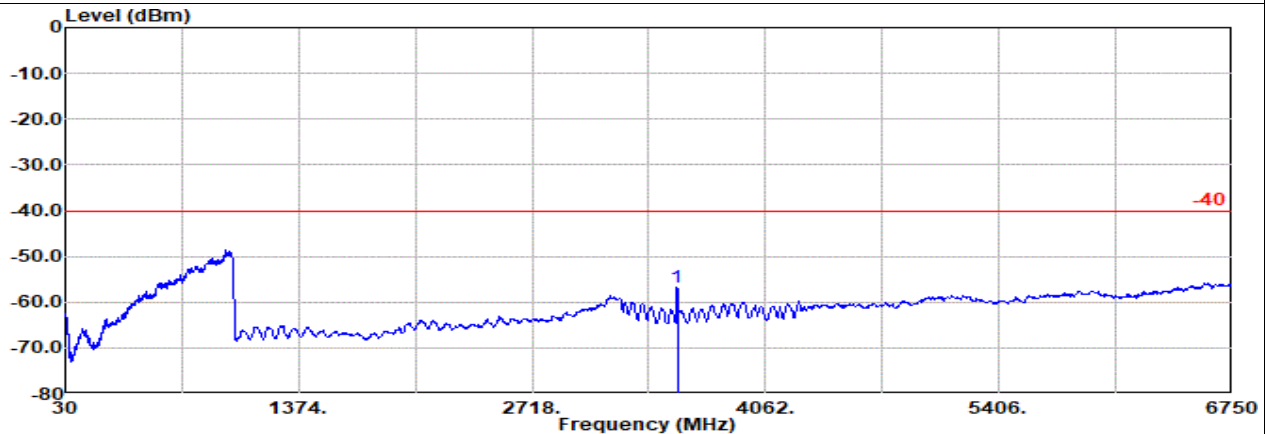
NR SA n48 40M Ch638000 1RB1 BPSK

L



Site : 03CH20-HY  
Condition: -40 3m HF\_9120D\_02360\_251105 Horizontal  
: NR SA n48 40M Ch638000 1RB1 BPSK  
: #1 is fundamental signal can be ignored

| 1 | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                   |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-------------------|
|   | MHz     | dBm    |          | Factor            | 1      |        |        |       |            |                   |
| 1 | 3553.00 | -55.02 | RMS      | 29.51             | -26.06 | 0.00   | -95.23 | 36.76 | -40.00     | -15.02 Horizontal |



Site : 03CH20-HY  
Condition: -40 3m HF\_9120D\_02360\_251105 Vertical  
: NR SA n48 40M Ch638000 1RB1 BPSK  
: #1 is fundamental signal can be ignored

| 1 | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                 |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-----------------|
|   | MHz     | dBm    |          | Factor            | 1      |        |        |       |            |                 |
| 1 | 3553.00 | -56.81 | RMS      | 29.51             | -26.06 | 0.00   | -95.23 | 34.97 | -40.00     | -16.81 Vertical |