



# FCC Radio Test Report

Applicant : Relay, Inc.  
Equipment : Relay  
Brand Name : Relay  
Model Name : RY2268  
FCC ID : 2AMBHRY2268  
Standard : 47 CFR FCC Part 15.519  
Test Date(S) : Mar. 27, 2024 ~ May 18, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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History of this test report

| Report No. | Version | Description             | Issued Date  |
|------------|---------|-------------------------|--------------|
| FR250507H  | 01      | Initial issue of report | May 30, 2024 |
|            |         |                         |              |
|            |         |                         |              |
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|            |         |                         |              |
|            |         |                         |              |

## Summary of Test Result

| Report Clause | Ref. Std. Clause        | Test Items                                       | Result (PASS/FAIL) | Remark                                                                                     |
|---------------|-------------------------|--------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------|
| 1.4           | 15.203<br>15.519(a)(2)  | Antenna Requirement                              | PASS               | 15.203                                                                                     |
| 3.1           | 15.207                  | AC Power-line Conducted Emissions                | PASS               | 15.207                                                                                     |
| 3.2           | 15.503                  | UWB Bandwidth                                    | PASS               | ≥ 500MHz                                                                                   |
| 3.4           | 15.519(a)(1)            | Technical requirements for Hand Held UWB systems | PASS               | 15.519(a)(1)                                                                               |
| 3.4           | 15.519(e)               | Peak Emissions within a 50 MHz Bandwidth         | PASS               | ≤ 0 dBm/50MHz                                                                              |
| 3.5           | 15.519(c)<br>/15.519(d) | Radiated Emissions                               | PASS               | UWB Emissions:<br>15.519(c)<br>GPS Emissions:<br>15.519(d)<br>Digital Emissions:<br>15.209 |

### Conformity Assessment Condition:

- 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 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.



## 1 General Description

### 1.1 Applicant

Relay, Inc.

4200 Six Forks Rd, Suite 1800, Raleigh, NC 27609, USA

### 1.2 Manufacturer

Relay, Inc.

4200 Six Forks Rd, Suite 1800, Raleigh, NC 27609, USA

### 1.3 Product Feature of Equipment Under Test

| Product Feature |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| Equipment       | Relay                                                                     |
| Brand Name      | Relay                                                                     |
| Model Name      | RY2268                                                                    |
| FCC ID          | 2AMBHRY2268                                                               |
| IMEI Code       | Conduction: 990007570009446/990007570009453<br>Radiation: 990007570009388 |
| HW Version      | v01                                                                       |
| EUT Stage       | Identical Prototype                                                       |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

### 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                               |
|-----------------------------------------|---------------------------------------------------------------|
| Channel Number & Tx/Rx Frequency Range  | CH05: 6489.6 MHz<br>CH09: 7987.2 MHz                          |
| Antenna Type                            | <Ant. 5> : PIFA Antenna<br><Ant. 6> : PIFA Antenna            |
| UWB category                            | hand held device                                              |
| Antenna Gain                            | <CH05><br><Ant. 6> : 0.01 dBi<br><CH09><br><Ant. 6> : 0.1 dBi |
| Type of Modulation                      | BPM-BPSK                                                      |

Note: Ant.5 is Rx only.

### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Type of EUT

| Operational Condition               |                                                                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| EUT Power Type                      | From Battery                                                                                                                      |
| Type of EUT                         |                                                                                                                                   |
| <input checked="" type="checkbox"/> | Stand-alone                                                                                                                       |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device)<br>Combined Equipment - Brand Name / Model No.: ... |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)<br>Host System - Brand Name / Model No.: ...                           |
| <input type="checkbox"/>            | Other:                                                                                                                            |

## 1.7 Testing Location Information

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

|                    |                                                                                                                                                |                     |                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------|
| Test Firm          | Sporton International Inc. (Kunshan)                                                                                                           |                     |                                |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158 |                     |                                |
| Test Site No.      | Sporton Site No.                                                                                                                               | FCC Designation No. | FCC Test Firm Registration No. |
|                    | CO01-KS<br>03CH06-KS                                                                                                                           | CN1257              | 314309                         |

| Test Condition | Test Site No. | Test Engineer | Test Environment            | Test Date     |
|----------------|---------------|---------------|-----------------------------|---------------|
| Conduction     | CO01-KS       | Amos Zhang    | 25.3 ~ 26.2 °C<br>38 ~ 40 % | Mar. 27, 2024 |
| Radiated       | 03CH06-KS     | Leve Zhao     | 22 ~ 23 °C<br>41 ~ 42 %     | Apr. 30, 2024 |

## 1.8 Test Software

| Item | Site      | Manufacture | Name | Version     |
|------|-----------|-------------|------|-------------|
| 1.   | 03CH06-KS | AUDIX       | E3   | 210616      |
| 2.   | CO01-KS   | AUDIX       | E3   | 6.2009-8-24 |



## **1.9 Testing Applied Standards**

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

- ♦ 47 CFR FCC Part 15F
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC KDB 393764 D01 v02
- ♦ FCC KDB 412172 D01 v01r01



## 2 Test Configuration of EUT

### 2.1 Test Mode

| Test Configuration |             |             |               |             |               |
|--------------------|-------------|-------------|---------------|-------------|---------------|
| Mode               | UWB Antenna | UWB Channel | preamble_cidx | rx_sts_mode | packet_length |
| 1                  | 6           | 5           | 10            | SP 0        | 4             |
| 2                  | 6           | 5           | 10            | SP 0        | 127           |
| 3                  | 6           | 5           | 10            | SP 1        | 4             |
| 4                  | 6           | 5           | 10            | SP 1        | 127           |
| 5                  | 6           | 5           | 10            | SP 3        | 0             |
| 6                  | 6           | 5           | 27            | SP 0        | 4095          |
| 7                  | 6           | 5           | 27            | SP 1        | 4095          |
| 8                  | 6           | 5           | 27            | SP 3        | 0             |
| 9                  | 6           | 9           | 10            | SP 0        | 4             |
| 10                 | 6           | 9           | 10            | SP 0        | 127           |
| 11                 | 6           | 9           | 10            | SP 1        | 4             |
| 12                 | 6           | 9           | 10            | SP 1        | 127           |
| 13                 | 6           | 9           | 10            | SP 3        | 0             |
| 14                 | 6           | 9           | 27            | SP 0        | 4095          |
| 15                 | 6           | 9           | 27            | SP 1        | 4095          |
| 16                 | 6           | 9           | 27            | SP 3        | 0             |

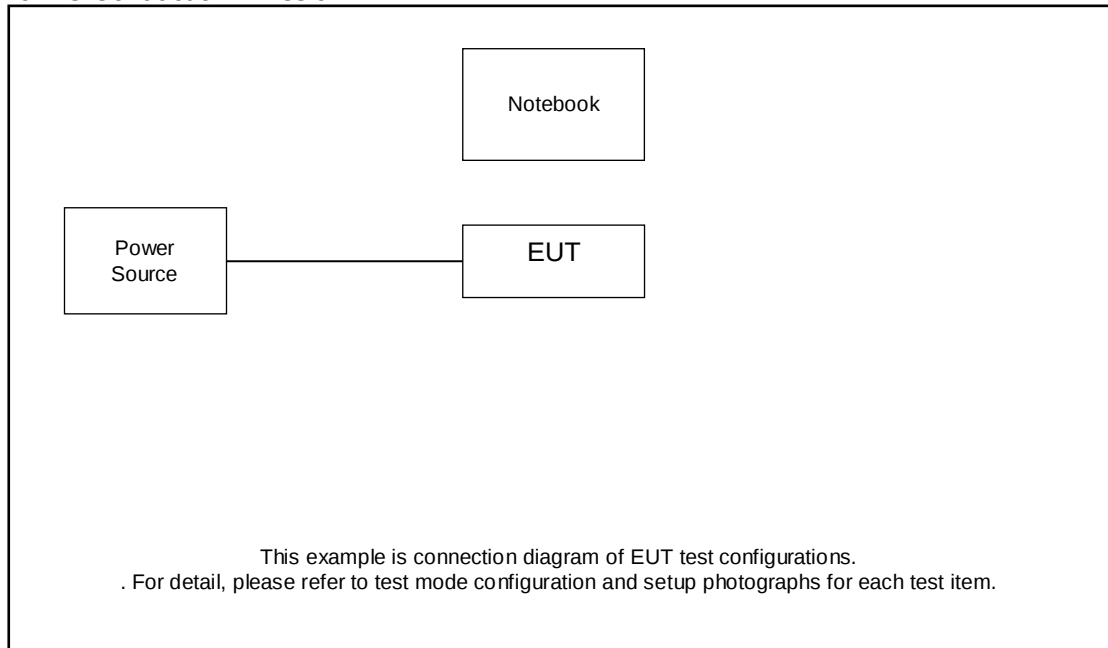
## 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | AC power-line conducted emissions                                                       |
| <b>Condition</b>                                    | AC power-line conducted measurement for line and neutral<br>Test Voltage: 120Vac / 60Hz |
| <b>Operating Mode</b>                               | CTX                                                                                     |
| 1                                                   | Adapter Mode                                                                            |

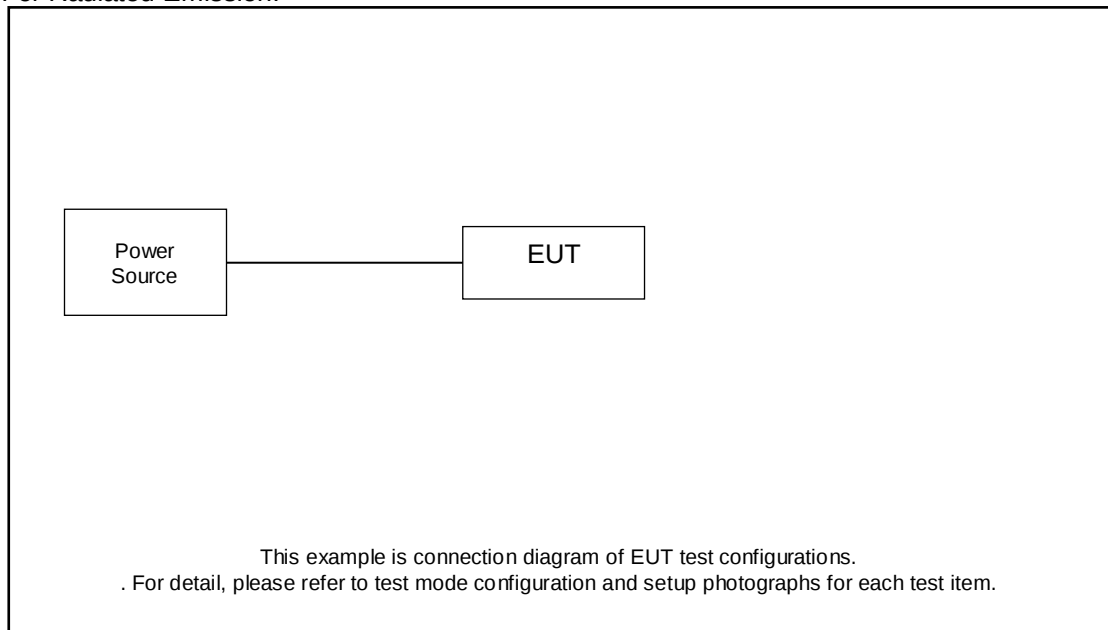
| The Worst Case Mode for Following Conformance Tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     |                                                                                     |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Tests Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UWB Bandwidth, Peak Emissions within a 50 MHz Bandwidth, Radiated Emissions         |                                                                                     |                                                                                       |
| Test Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Radiated measurement                                                                |                                                                                     |                                                                                       |
| Operating Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CTX                                                                                 |                                                                                     |                                                                                       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Adapter Mode                                                                        |                                                                                     |                                                                                       |
| Mode 1 configuration was tested and found to be the worst case and measured during the test.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |                                                                                     |                                                                                       |
| Operating Mode > 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CTX                                                                                 |                                                                                     |                                                                                       |
| Orthogonal Planes of EUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | X Plane                                                                             | Y Plane                                                                             | Z Plane                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |
| Worst Planes of EUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     | V                                                                                   |                                                                                       |
| <b>Remark:</b><br>1. 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 adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Y plane as worst plane and recorded in this report.<br>2. All the tests were performed with Adapter and USB Cable.<br>3. During the preliminary test, the adaptor mode is the worst case for official test. |                                                                                     |                                                                                     |                                                                                       |

## 2.3 Test Setup Diagram

For AC Conduction Emission:



For Radiated Emission:



## 2.4 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID        | Data Cable | Power Cord                                                   |
|------|-----------|------------|------------|---------------|------------|--------------------------------------------------------------|
| 1.   | Notebook  | Lenovo     | G480       | QDS-BRCM1050I | N/A        | shielded cable DC O/P 1.8m ,<br>Unshielded AC I/P cable 1.8m |

### 3 Transmitter Test Result

### 3.1 AC Power-line Conducted Emissions

### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit |            |           |
|-----------------------------------------|------------|-----------|
| Frequency Emission (MHz)                | Quasi-Peak | Average   |
| 0.15-0.5                                | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                   | 56         | 46        |
| 5-30                                    | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

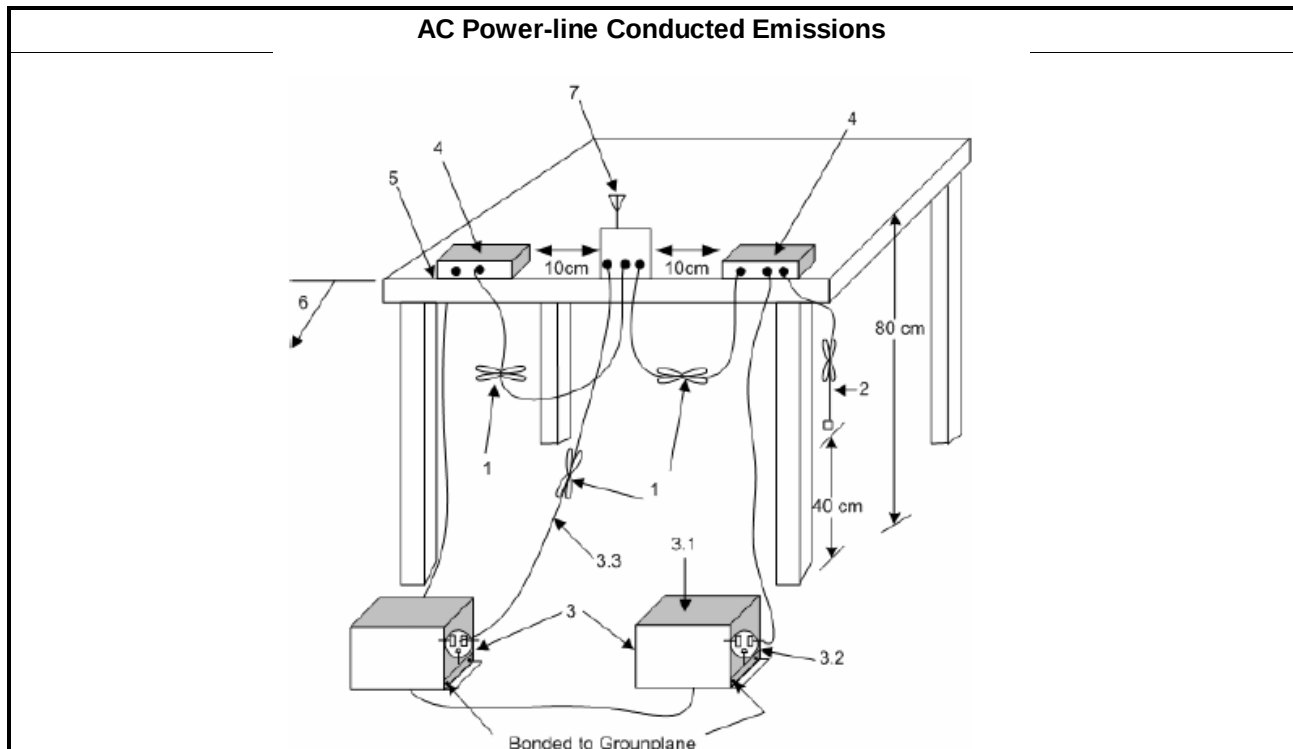
### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.1.3 Test Procedures

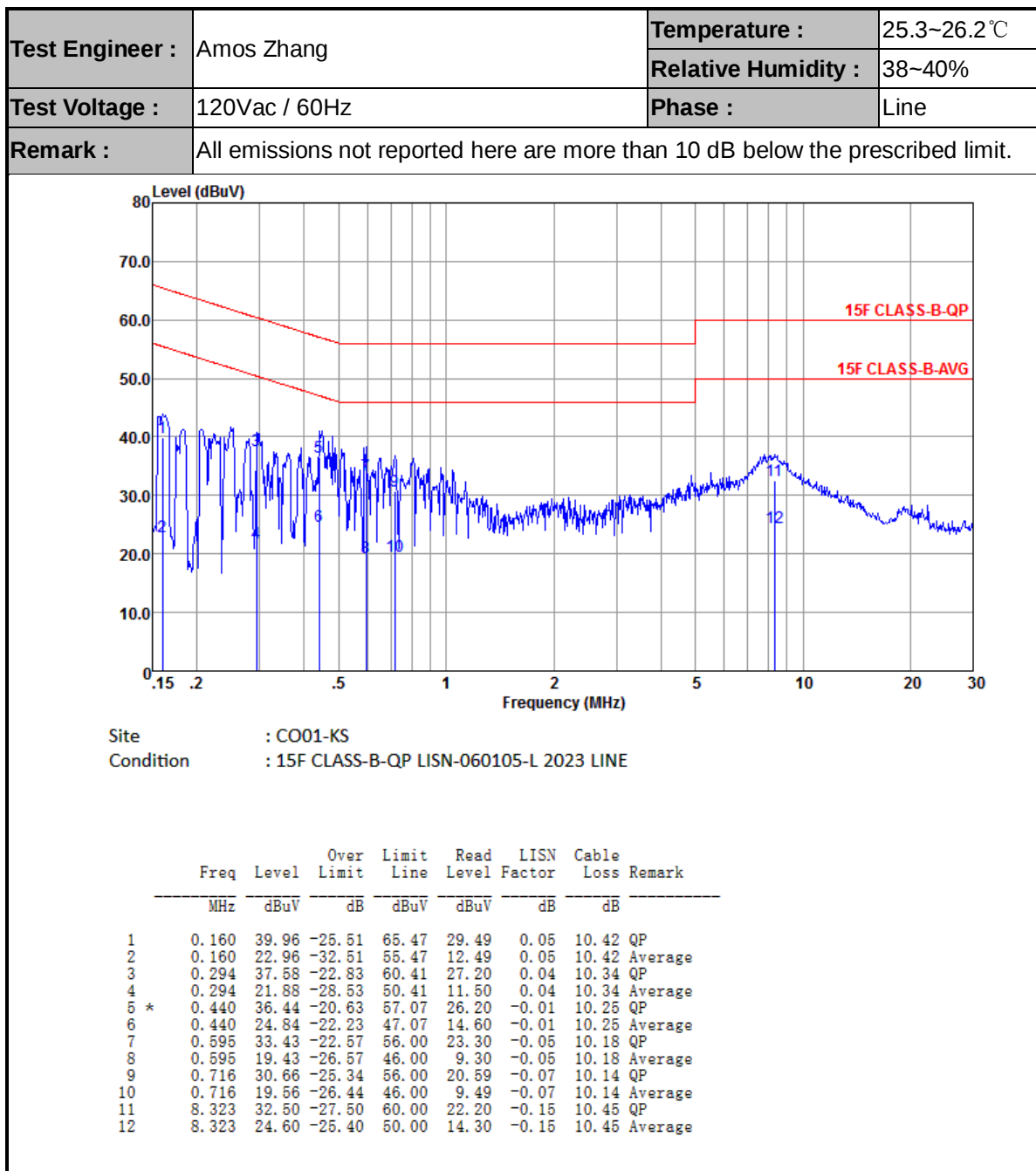
| Test Method                                                                                                      |
|------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

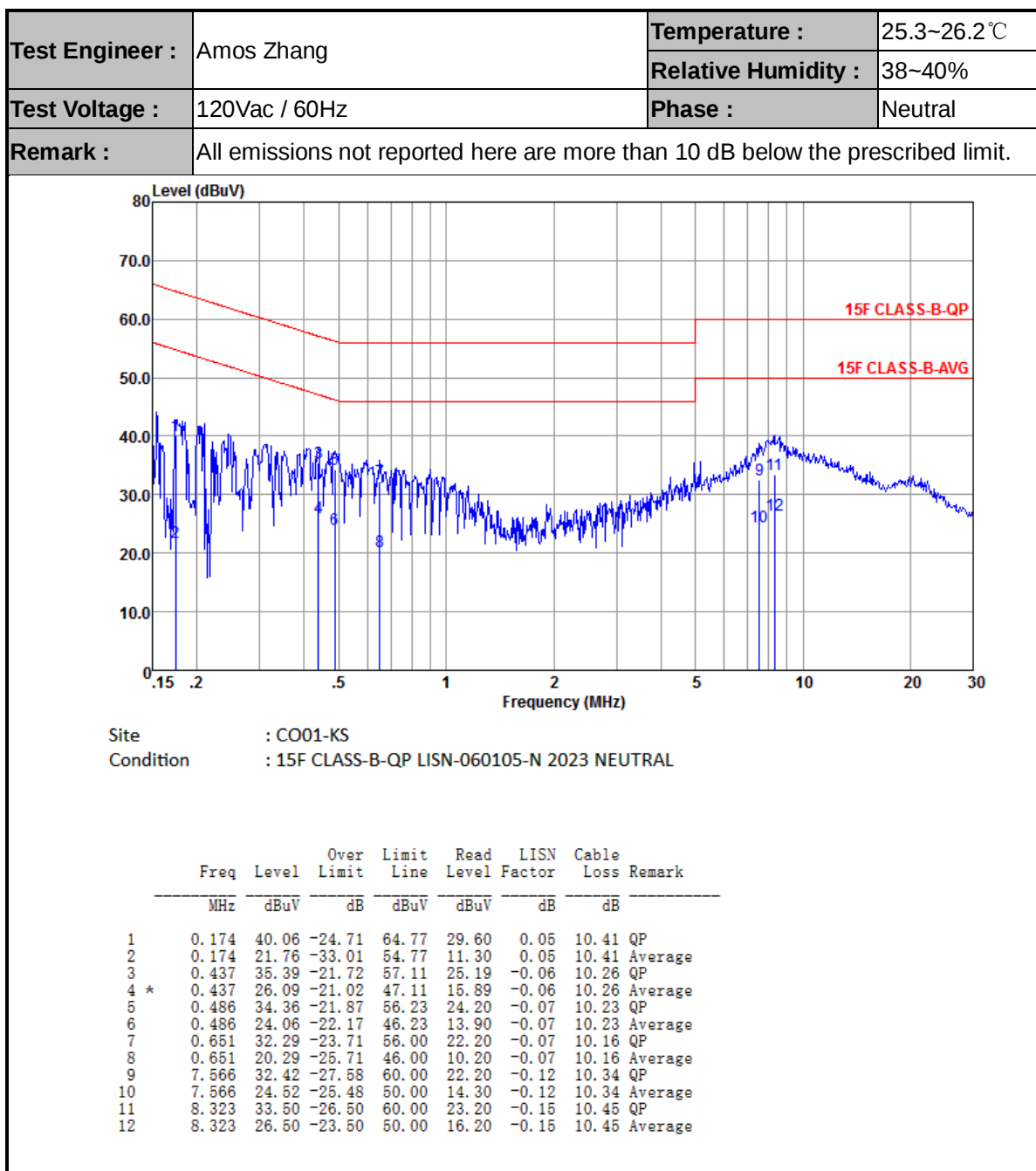
### 3.1.4 Test Setup





## 3.1.5 Test Result





Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

## 3.2 UWB bandwidth

### 3.2.1 UWB bandwidth Limit

| UWB bandwidth Limit                 |                                                                                                                       |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | UWB bandwidth $\geq 500$ MHz or Fractional bandwidth $\geq 0.2$ ; Fractional bandwidth = $2(f_H - f_L) / (f_H + f_L)$ |

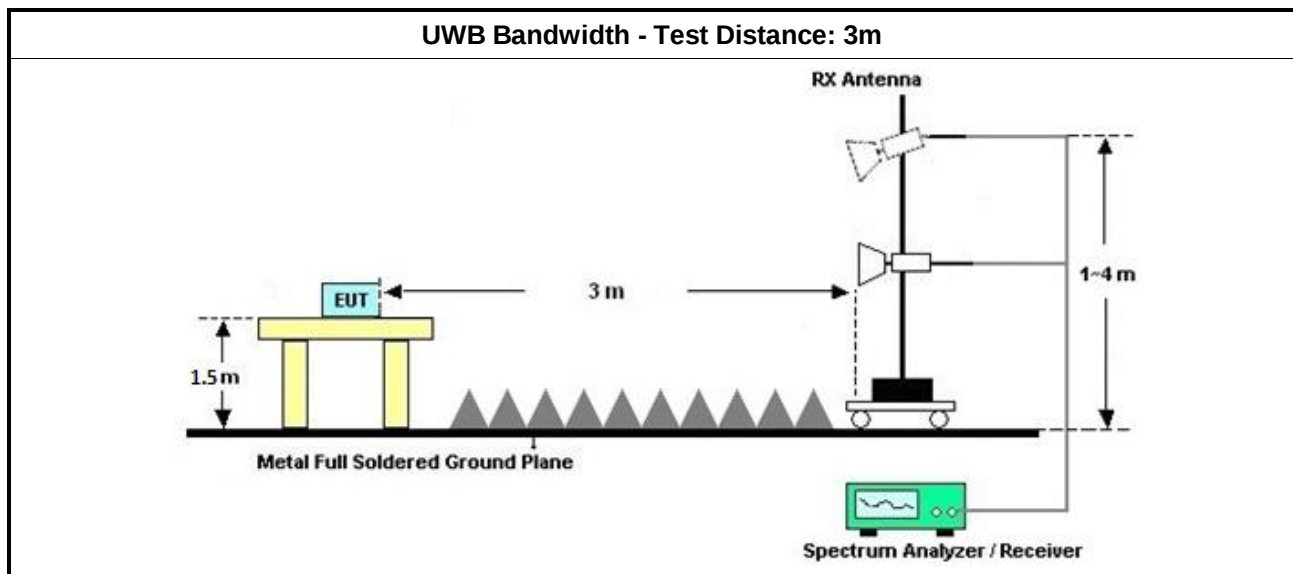
### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method                         |                                                                               |
|-------------------------------------|-------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | For the UWB bandwidth shall be measured using one of the options below:       |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.9.2 and clause 10.1 for UWB bandwidth testing. |

### 3.2.4 Test Setup



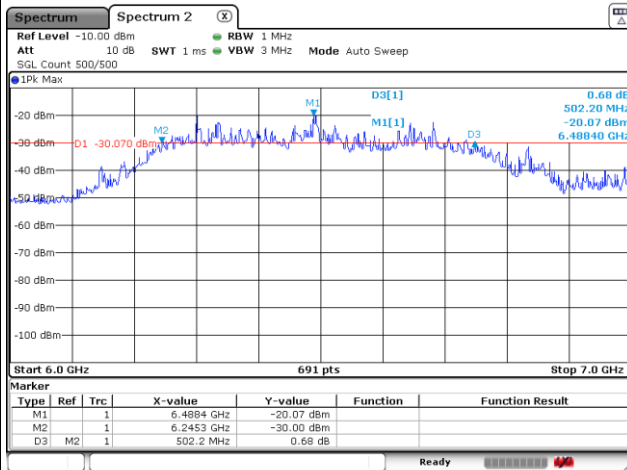
**3.2.5 Test Result of UWB Bandwidth**

| Mode    | Channel | Preamble_cidx | Rx_sts_mode | Prf_mode  | Sfd_id | Number_OF_STS_Segments | Packet_length | Bandwidth (MHz) | Limit(MHz) | Result | Pol(H/V) |
|---------|---------|---------------|-------------|-----------|--------|------------------------|---------------|-----------------|------------|--------|----------|
| Mode 1  | 5       | 10            | SP 0        | 62.4MHz   | 2      | 0                      | 4             | 502.2           | ≥500       | Pass   | V        |
| Mode 2  | 5       | 10            | SP 0        | 62.4MHz   | 2      | 0                      | 127           | 502.2           | ≥500       | Pass   | V        |
| Mode 3  | 5       | 10            | SP 1        | 62.4MHz   | 2      | 1                      | 4             | 544.1           | ≥500       | Pass   | V        |
| Mode 4  | 5       | 10            | SP 1        | 62.4MHz   | 2      | 1                      | 127           | 502.2           | ≥500       | Pass   | V        |
| Mode 5  | 5       | 10            | SP 3        | 62.4MHz   | 2      | 1                      | 0             | 571.6           | ≥500       | Pass   | V        |
| Mode 6  | 5       | 27            | SP 0        | 124.8 MHz | 2      | 0                      | 4095          | 565.8           | ≥500       | Pass   | V        |
| Mode 7  | 5       | 27            | SP 1        | 124.8 MHz | 2      | 1                      | 4095          | 589             | ≥500       | Pass   | V        |
| Mode 8  | 5       | 27            | SP 3        | 124.8 MHz | 2      | 1                      | 0             | 587.6           | ≥500       | Pass   | V        |
| Mode 9  | 9       | 10            | SP 0        | 62.4MHz   | 2      | 0                      | 4             | 565.4           | ≥500       | Pass   | V        |
| Mode 10 | 9       | 10            | SP 0        | 62.4MHz   | 2      | 0                      | 127           | 568.4           | ≥500       | Pass   | V        |
| Mode 11 | 9       | 10            | SP 1        | 62.4MHz   | 2      | 1                      | 4             | 567.3           | ≥500       | Pass   | V        |
| Mode 12 | 9       | 10            | SP 1        | 62.4MHz   | 2      | 1                      | 127           | 516.6           | ≥500       | Pass   | V        |
| Mode 13 | 9       | 10            | SP 3        | 62.4MHz   | 2      | 1                      | 0             | 555.7           | ≥500       | Pass   | V        |
| Mode 14 | 9       | 27            | SP 0        | 124.8 MHz | 2      | 0                      | 4095          | 526.8           | ≥500       | Pass   | V        |
| Mode 15 | 9       | 27            | SP 1        | 124.8 MHz | 2      | 1                      | 4095          | 532.6           | ≥500       | Pass   | V        |
| Mode 16 | 9       | 27            | SP 3        | 124.8 MHz | 2      | 1                      | 0             | 542.7           | ≥500       | Pass   | V        |



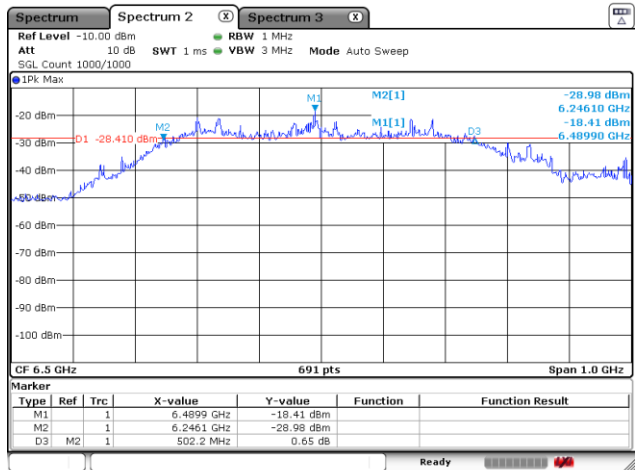
## CH05 Bandwidth Plots

## Mode 1: cidx-10\_sts-0\_packet length-4



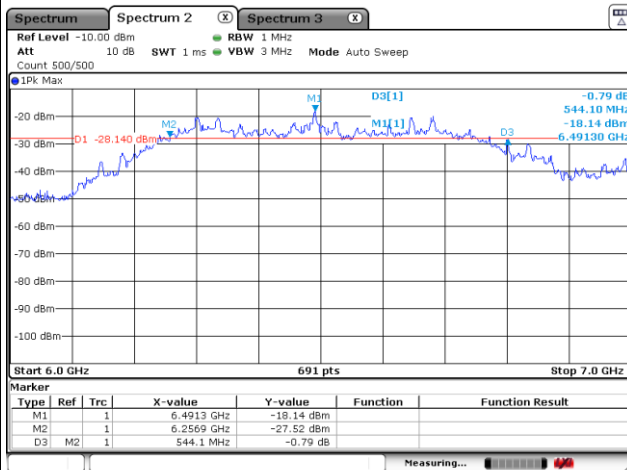
Date: 26.APR.2024 13:21:18

## Mode 2: cidx-10\_sts-0\_packet length-127



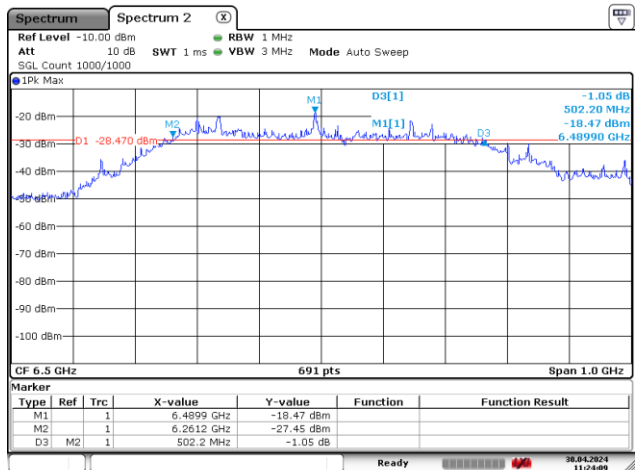
Date: 26.APR.2024 15:09:13

## Mode 3: cidx-10\_sts-1\_packet length-4



Date: 26.APR.2024 15:56:41

## Mode 4: cidx-10\_sts-1\_packet length-127

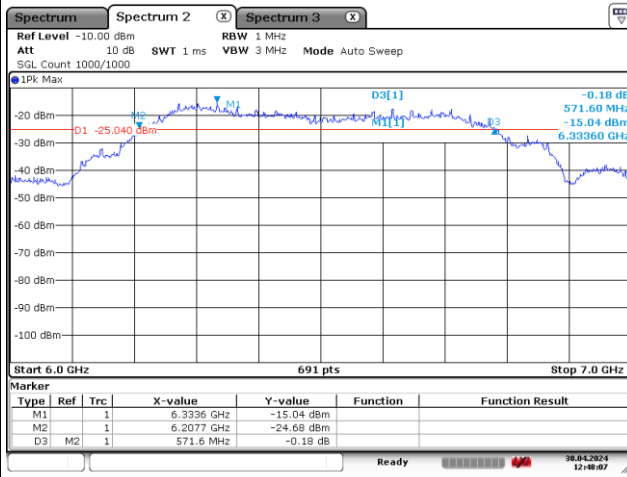


Date: 30.APR.2024 11:24:09



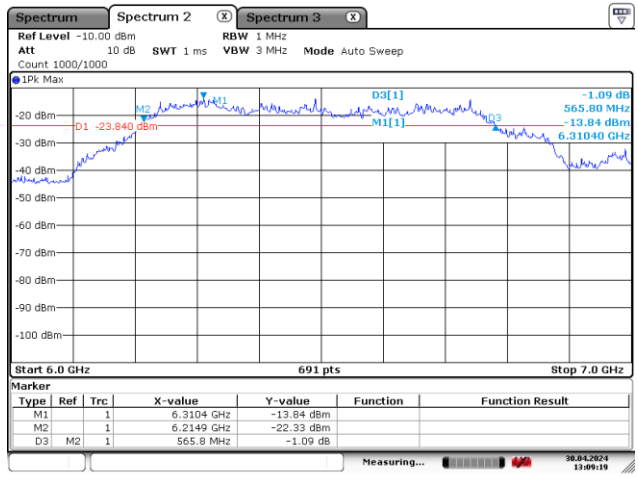
## CH05 Bandwidth Plots

## Mode 5: cidx-10\_sts-1\_packet length-0



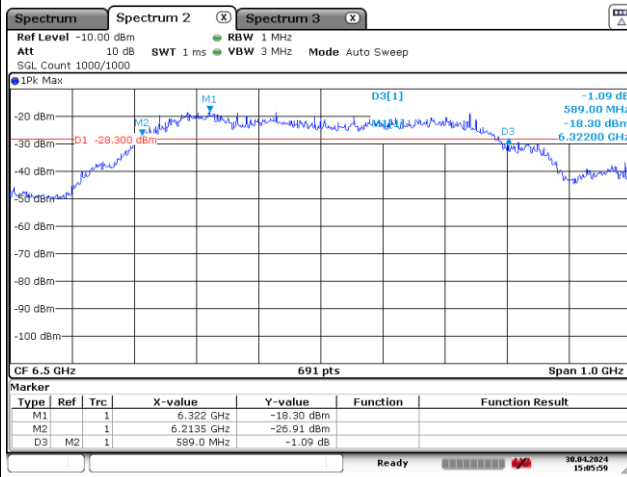
Date: 30.APR.2024 12:48:08

## Mode 6: cidx-27\_sts-0\_packet length-4095



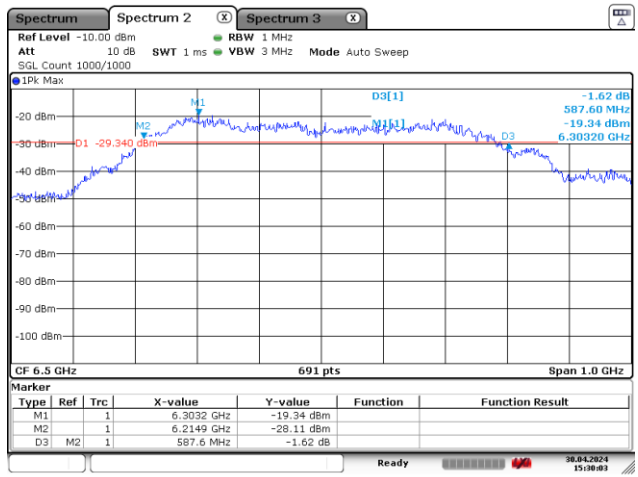
Date: 30.APR.2024 13:09:20

## Mode 7: cidx-27\_sts-1\_packet length-4095



Date: 30.APR.2024 15:05:59

## Mode 8: cidx-27\_sts-1\_packet length-0

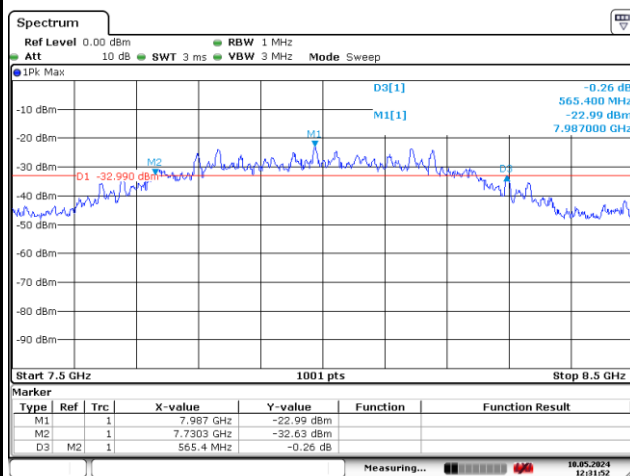


Date: 30.APR.2024 15:30:04



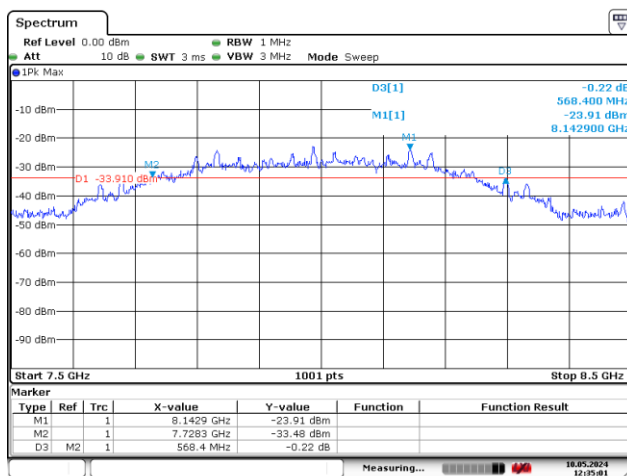
## CH09 Bandwidth Plots

## Mode 9: cidx-10\_sts-0\_packet length-4



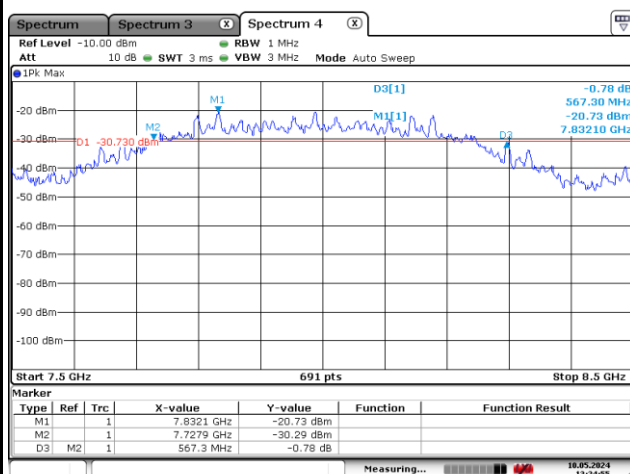
Date: 10.MAY.2024 12:31:51

## Mode 10: cidx-10\_sts-0\_packet length-127



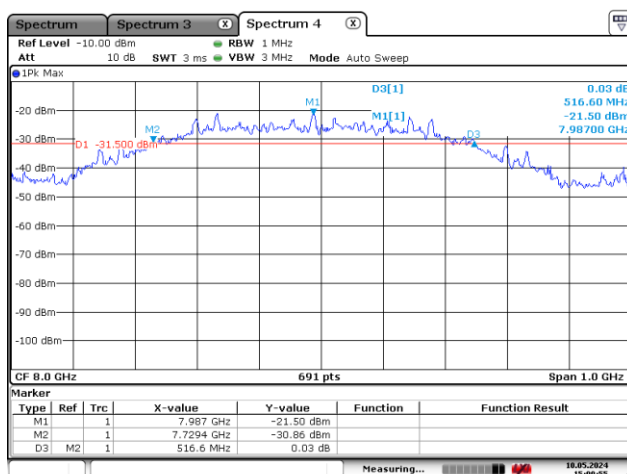
Date: 10.MAY.2024 12:35:02

## Mode 11: cidx-10\_sts-1\_packet length-4



Date: 10.MAY.2024 13:24:54

## Mode 12: cidx-10\_sts-1\_packet length-127

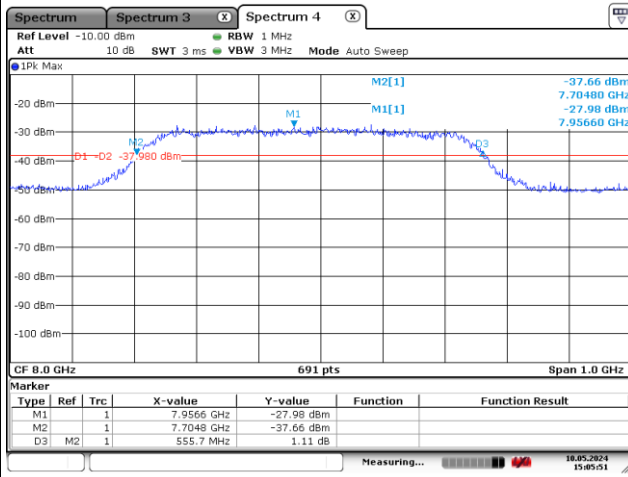


Date: 10.MAY.2024 15:00:55



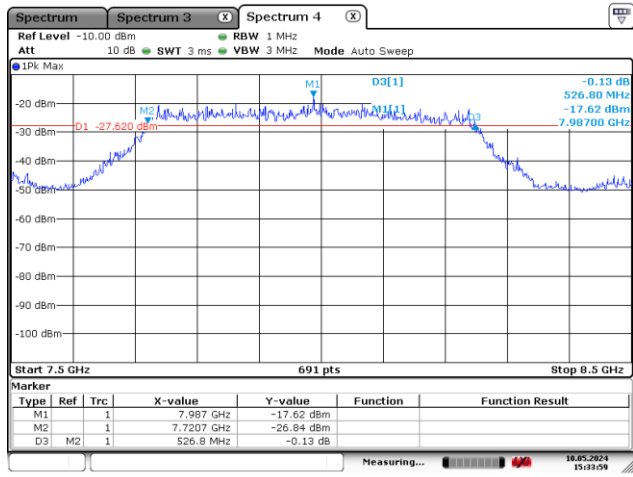
## CH09 Bandwidth Plots

## Mode 13: cidx-10\_sts-1\_packet length-0



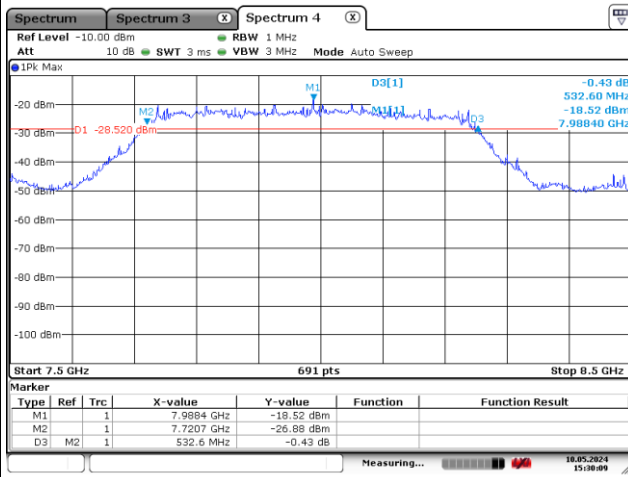
Date: 10.MAY.2024 15:05:50

## Mode 14: cidx-27\_sts-0\_packet length-4095



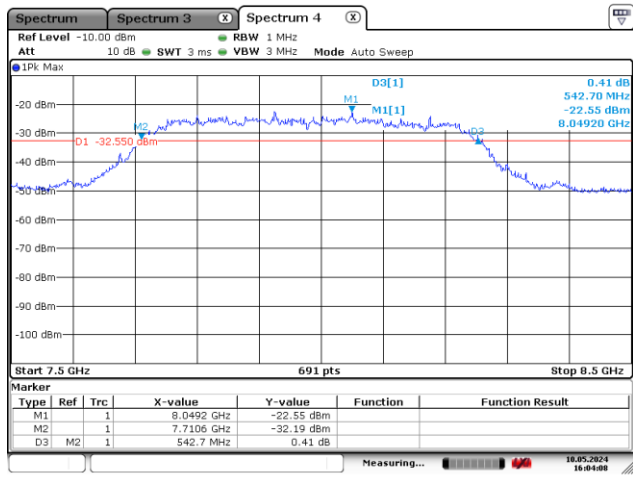
Date: 10.MAY.2024 15:03:59

## Mode 15: cidx-27\_sts-1\_packet length-4095



Date: 10.MAY.2024 15:06:09

## Mode 16: cidx-27\_sts-1\_packet length-0



Date: 10.MAY.2024 16:04:08

### 3.3 Technical requirements for hand held UWB systems

#### 3.3.1 Technical Requirements for transmission Limit

FCC 15.519(a) (1) A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

#### 3.3.2 Measuring Instruments

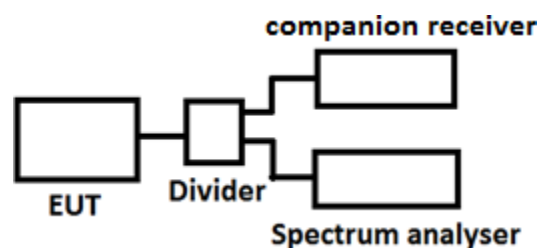
Refer a test equipment and calibration data table in this test report.

#### 3.3.3 Test Procedure

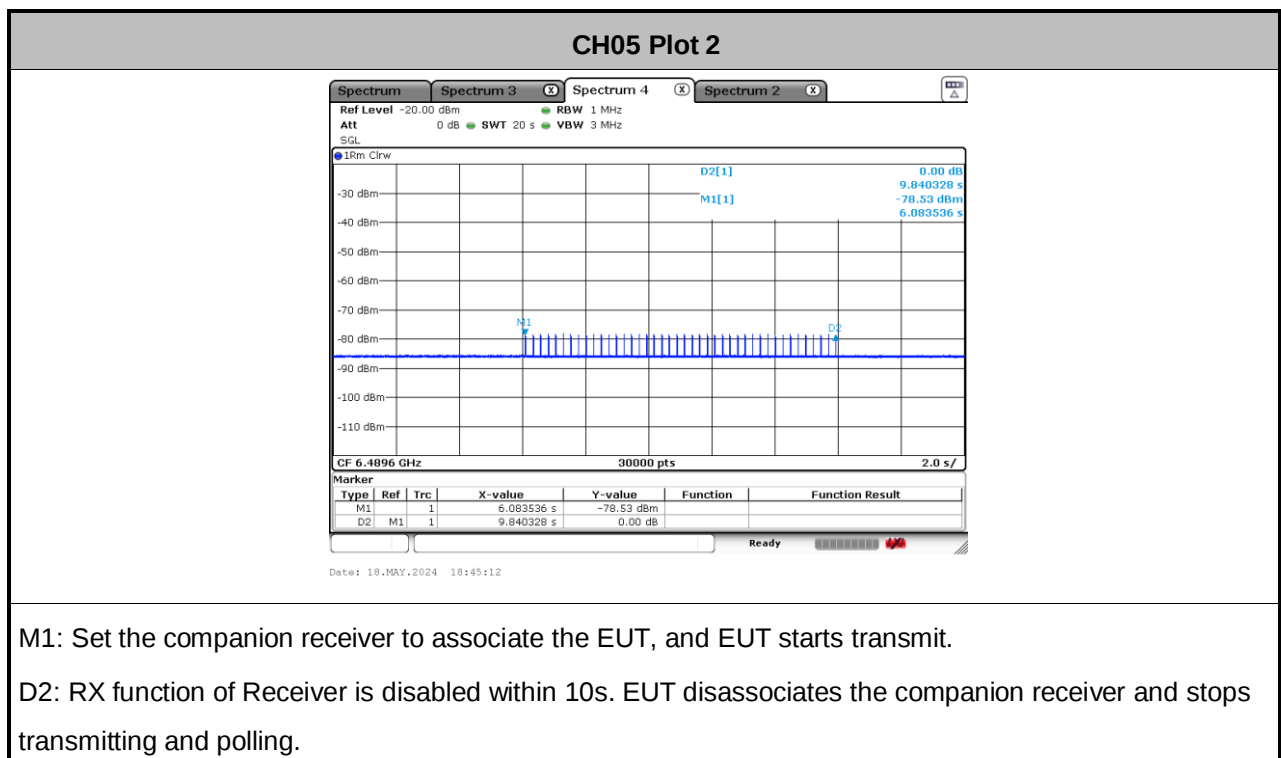
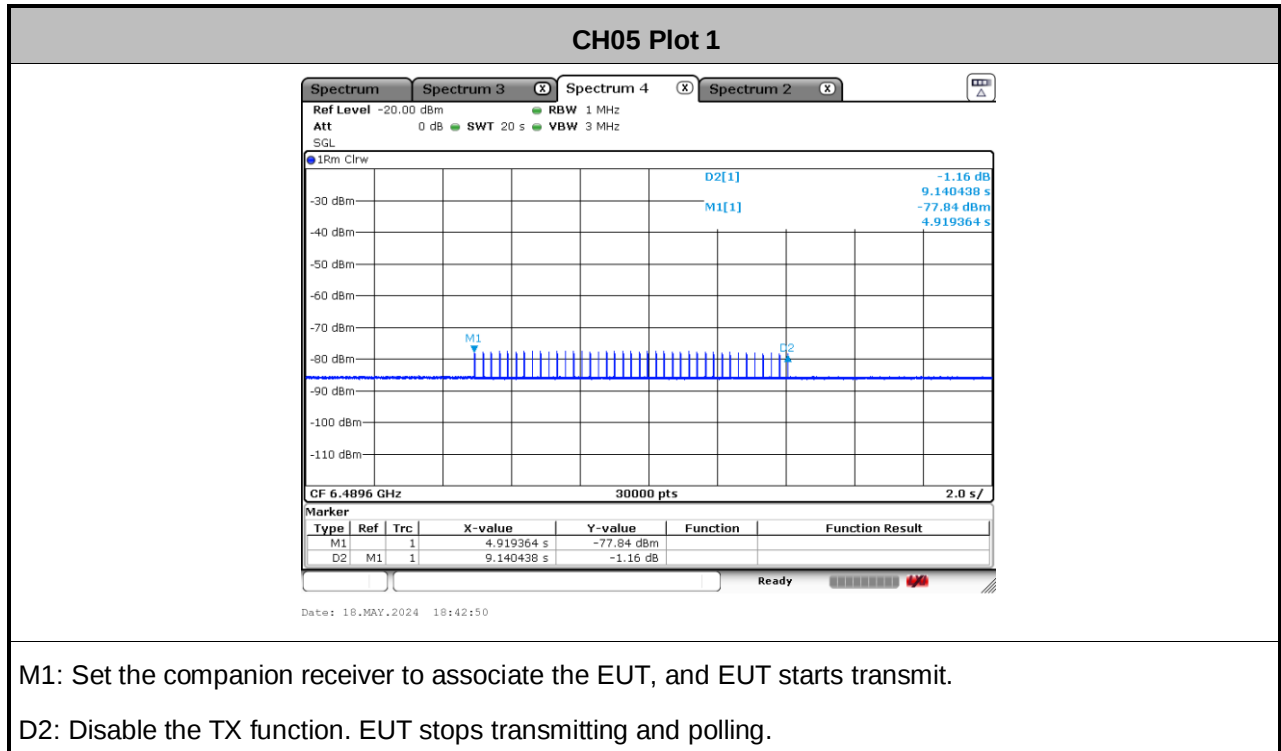
Follow the test step as below:

1. Turn on both EUT and companion receiver.
2. Set the EUT to TX mode, and EUT starts polling.
3. Set the companion receiver to associate EUT and EUT starts to transmit.
4. Disable the TX function of EUT.
5. Check if EUT stop transmitting once step 4 is made. (see plot 1 in clause 3.3.5)
6. Turn off both EUT and companion receiver.
7. Repeat step 1 to step 3.
8. Disable the RX function of the companion receiver to disassociate the EUT.
9. Check if EUT stop transmitting once step 8 is made. (see plot 2 in clause 3.3.5)

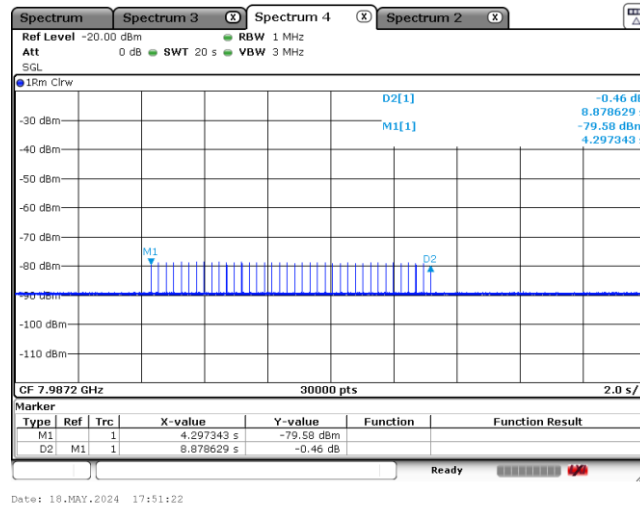
#### 3.3.4 Test Setup



### 3.3.5 Test Result



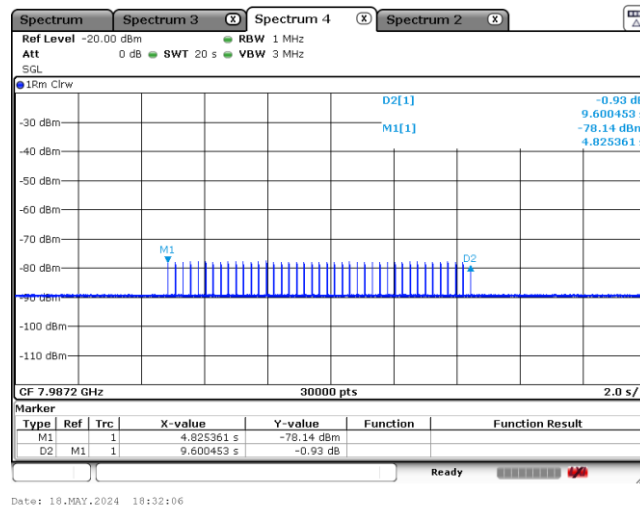
### CH09 Plot1



M1: Set the companion receiver to associate the EUT, and EUT starts transmit.

D2: Disable the TX function. EUT stops transmitting and polling.

### CH09 Plot2



M1: Set the companion receiver to associate the EUT, and EUT starts transmit.

D2: RX function of Receiver is disabled within 10s. EUT disassociates the companion receiver and stops transmitting and polling.

### 3.4 Peak Power Measurement

#### 3.4.1 Peak Power Measurement Limit

| Peak Power Measurement Limit     |
|----------------------------------|
| $P_{eirr} = 0 \text{ dBm/50MHz}$ |

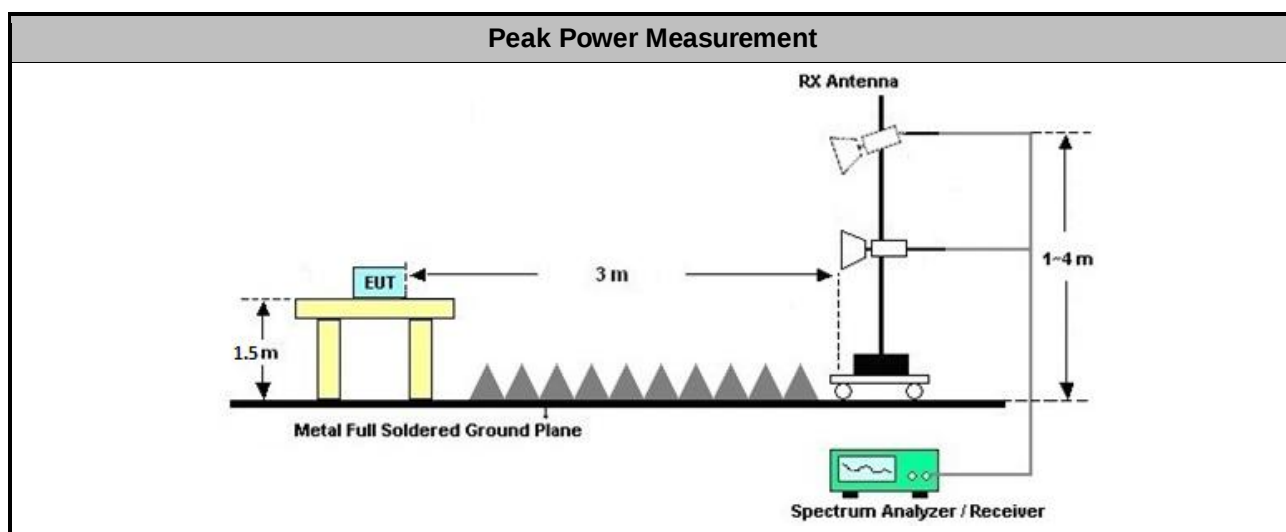
#### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Peak Power Measurement                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m                                                                                                                                                                                                                                                                                                                                                                |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 10.3.5 for peak detector procedure testing                                                                                                                                                                                                                                                                                                                                                           |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 10.3.6 for bandwidth conversion of peak power                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> | Frequency of max peak power is pre-located:<br>The span bandwidth is continuously reduced to find the worst frequency. Once the worst frequency is found, the setting of spectrum analyzer is set as below: <ul style="list-style-type: none"> <li>Central frequency: Worst frequency point</li> <li>Span: Zero span</li> <li>RBW: 40MHz</li> <li>VBW: 40MHz</li> <li>Detector: Peak detector</li> <li>Trace: Max hold</li> </ul> |

#### 3.4.4 Test Setup





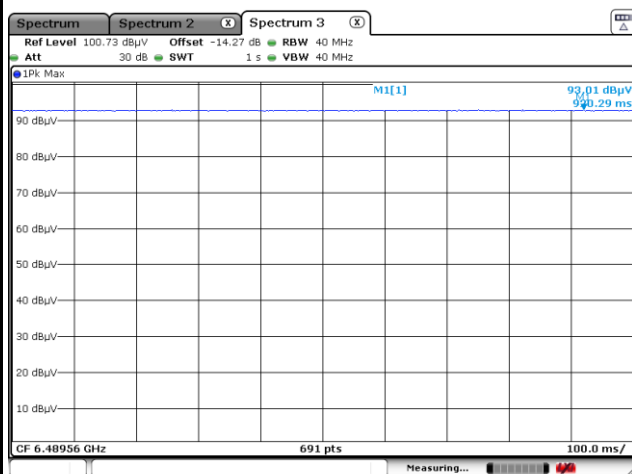
## 3.4.5 Test Result of Peak Power Measurement

| Peak Measurement Result                                                                                                                                                                                                                                                                      |             |                  |                             |                                  |                                   |             |        |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-----------------------------|----------------------------------|-----------------------------------|-------------|--------|-----------|
| Mode                                                                                                                                                                                                                                                                                         | Freq. (MHz) | E-Field (dBuV/m) | EIRP <sub>40MHz</sub> (dBm) | EIRP <sub>50MHz</sub> Limit(dBm) | EIRP <sub>40MHz</sub> Limit (dBm) | Margin [dB] | Result | Pol [H/V] |
| 1                                                                                                                                                                                                                                                                                            | 6489.56     | 93.01            | -2.19                       | 0                                | -1.94                             | -0.25       | Pass   | V         |
| 2                                                                                                                                                                                                                                                                                            | 6489.56     | 91.28            | -3.92                       | 0                                | -1.94                             | -1.98       | Pass   | V         |
| 3                                                                                                                                                                                                                                                                                            | 6489.56     | 92.95            | -2.25                       | 0                                | -1.94                             | -0.31       | Pass   | V         |
| 4                                                                                                                                                                                                                                                                                            | 6489.9      | 92.51            | -2.69                       | 0                                | -1.94                             | -0.75       | Pass   | V         |
| 5                                                                                                                                                                                                                                                                                            | 6303.1      | 87.4             | -7.8                        | 0                                | -1.94                             | -5.86       | Pass   | V         |
| 6                                                                                                                                                                                                                                                                                            | 6317.97     | 87.95            | -7.25                       | 0                                | -1.94                             | -5.31       | Pass   | V         |
| 7                                                                                                                                                                                                                                                                                            | 6302.35     | 87.25            | -7.95                       | 0                                | -1.94                             | -6.01       | Pass   | V         |
| 8                                                                                                                                                                                                                                                                                            | 6302.35     | 87.6             | -7.6                        | 0                                | -1.94                             | -5.66       | Pass   | V         |
| 9                                                                                                                                                                                                                                                                                            | 7986.98     | 92.49            | -2.71                       | 0                                | -1.94                             | -0.77       | Pass   | V         |
| 10                                                                                                                                                                                                                                                                                           | 7986.11     | 92.5             | -2.7                        | 0                                | -1.94                             | -0.76       | Pass   | V         |
| 11                                                                                                                                                                                                                                                                                           | 7986.98     | 92.71            | -2.49                       | 0                                | -1.94                             | -0.55       | Pass   | V         |
| 12                                                                                                                                                                                                                                                                                           | 7986.11     | 89.81            | -5.39                       | 0                                | -1.94                             | -3.45       | Pass   | V         |
| 13                                                                                                                                                                                                                                                                                           | 8018.23     | 83.38            | -11.82                      | 0                                | -1.94                             | -9.88       | Pass   | V         |
| 14                                                                                                                                                                                                                                                                                           | 7986.98     | 91.26            | -3.94                       | 0                                | -1.94                             | -2          | Pass   | V         |
| 15                                                                                                                                                                                                                                                                                           | 7987        | 88.52            | -6.68                       | 0                                | -1.94                             | -4.74       | Pass   | V         |
| 16                                                                                                                                                                                                                                                                                           | 8049.49     | 84.45            | -10.75                      | 0                                | -1.94                             | -8.81       | Pass   | V         |
| Note 1: EIRP [dBm] = E-Field [dBuV/m] - 95.2;<br>Note 2: Bandwidth Correction Factor (BWCF) = 20 log (40MHz/50MHz).<br>Note 3: EIRP <sub>40MHz</sub> Limit = EIRP <sub>50MHz</sub> Limit + BWCF, FCC Part 15.521(g).<br>Note 4: Measurement worst emissions of receive antenna polarization. |             |                  |                             |                                  |                                   |             |        |           |

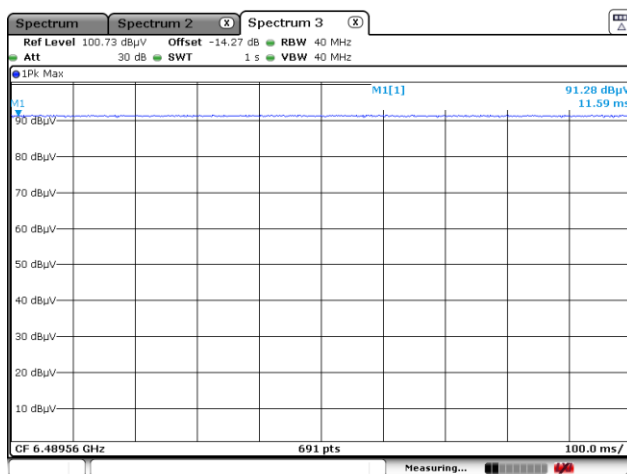


## CH05 Peak Power Measurement Plots

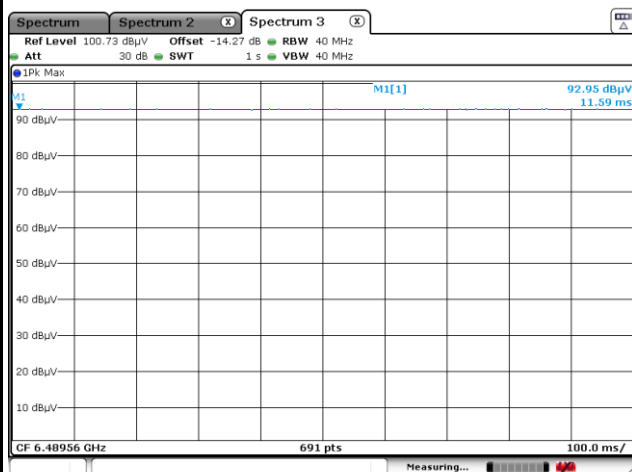
## Mode 1: cidx-10\_sts-0\_packet length-4



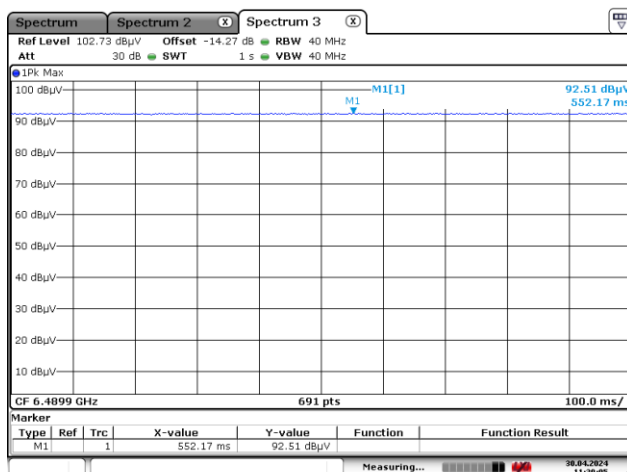
## Mode 2: cidx-10\_sts-0\_packet length-127



## Mode 3: cidx-10\_sts-1\_packet length-4



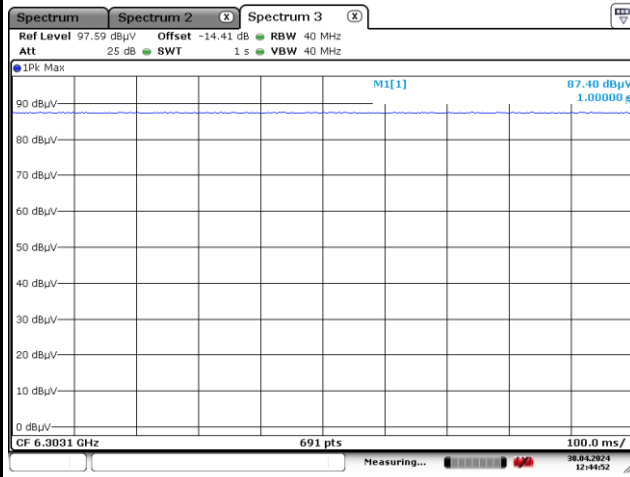
## Mode 4: cidx-10\_sts-1\_packet length-127



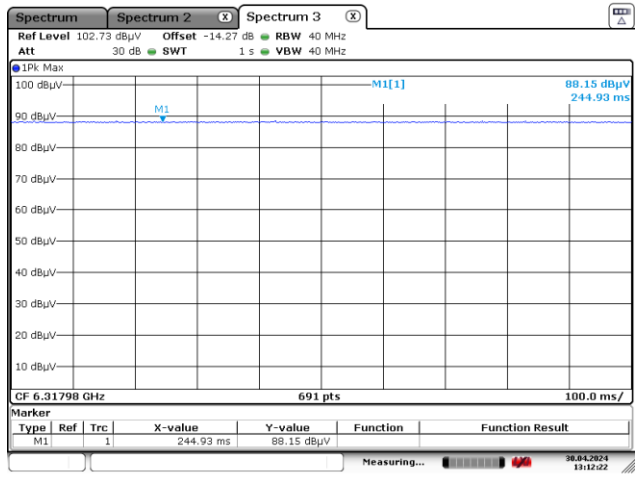


## CH05 Peak Power Measurement Plots

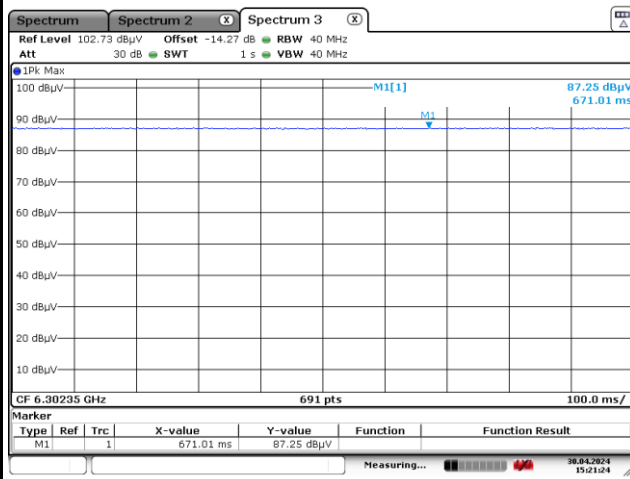
## Mode 5: cidx-10\_sts-1\_packet length-0



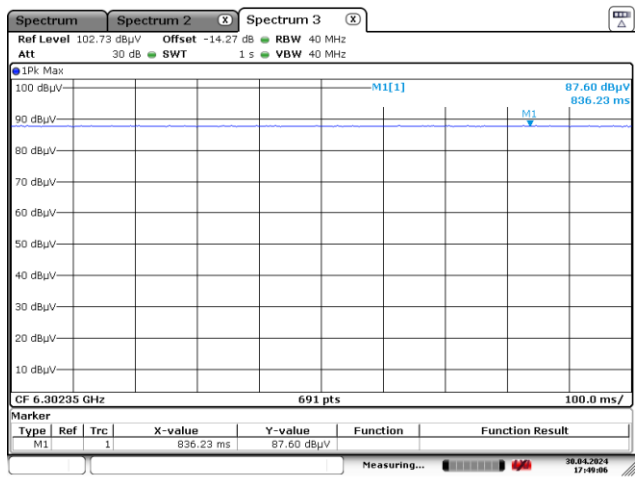
## Mode 6: cidx-27\_sts-0\_packet length-4095



## Mode 7: cidx-27\_sts-1\_packet length-4095



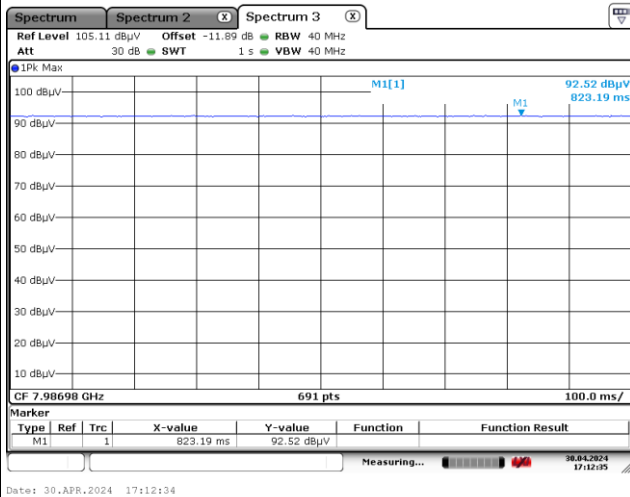
## Mode 8: cidx-27\_sts-1\_packet length-0



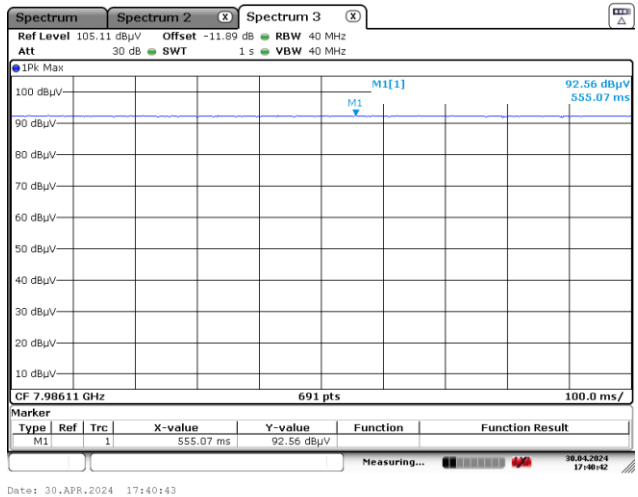


## CH09 Peak Power Measurement Plots

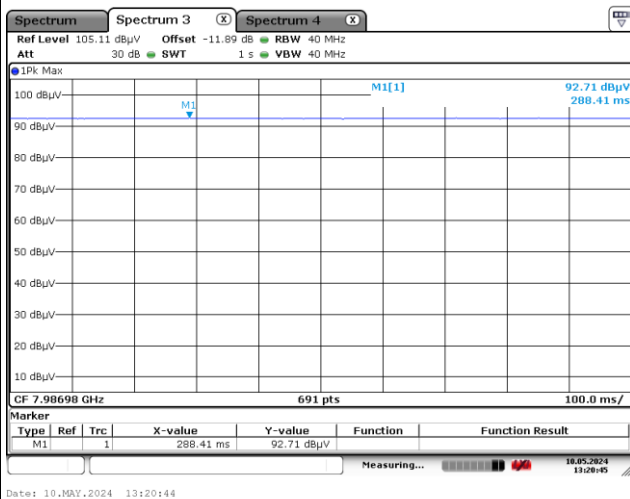
## Mode 9: cidx-10\_sts-0\_packet length-4



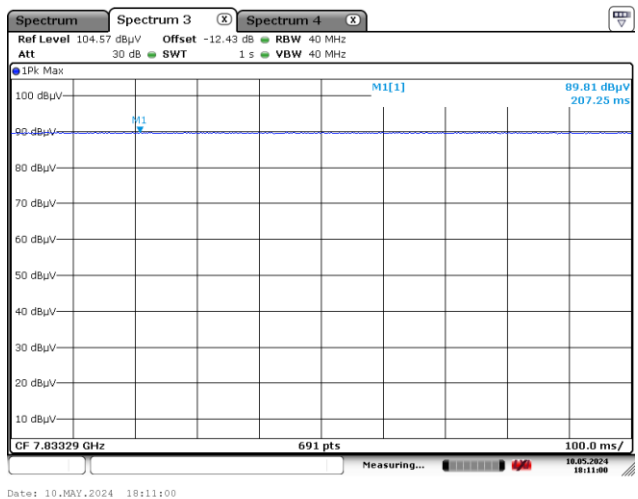
## Mode 10: cidx-10\_sts-0\_packet length-127



## Mode 11: cidx-10\_sts-1\_packet length-4



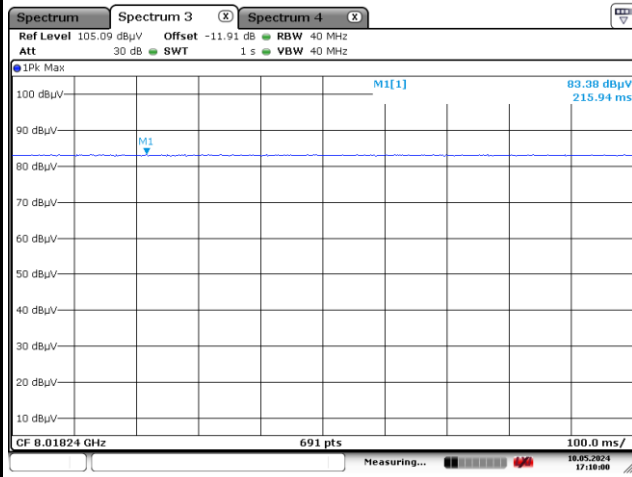
## Mode 12: cidx-10\_sts-1\_packet length-127



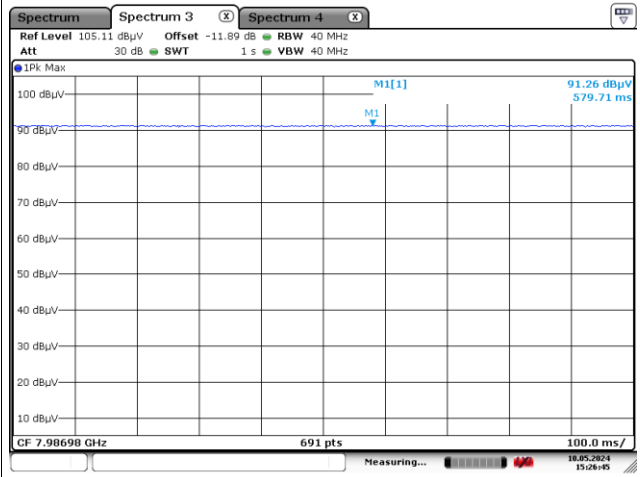


## CH09 Peak Power Measurement Plots

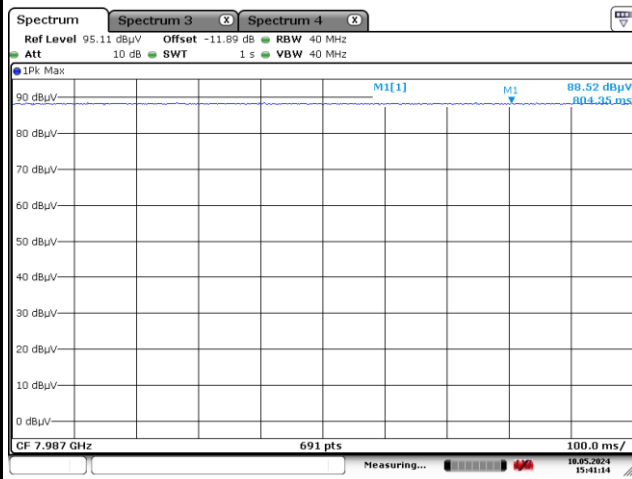
## Mode 13: cidx-10\_sts-1\_packet length-0



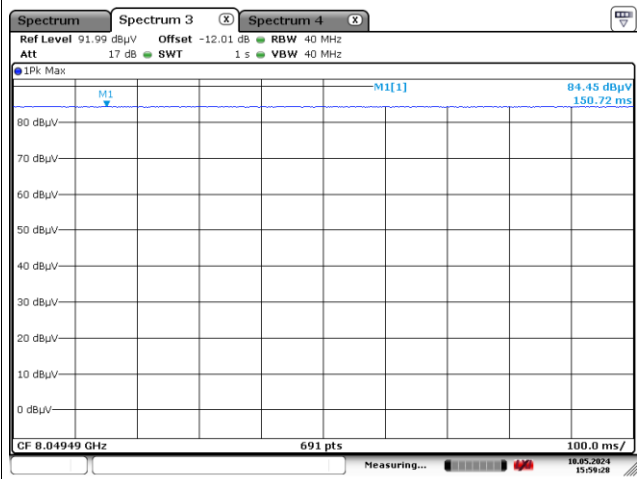
## Mode 14: cidx-27\_sts-0\_packet length-4095



## Mode 15: cidx-27\_sts-1\_packet length-4095



## Mode 16: cidx-27\_sts-1\_packet length-0





### 3.5 Radiated Emissions

#### 3.5.1 Radiated Emissions Limit

| Radiated Emissions below 960MHz and Emissions from Digital Circuitry Limit |                       |                         |                      |
|----------------------------------------------------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)                                                      | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                                                                | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                                                                | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                                                                 | 30                    | 29                      | 30                   |
| 30~88                                                                      | 100                   | 40                      | 3                    |
| 88~216                                                                     | 150                   | 43.5                    | 3                    |
| 216~960                                                                    | 200                   | 46                      | 3                    |
| Above 960                                                                  | 500                   | 54                      | 3                    |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

| Radiated Emissions above 960MHz Limit |            |                   |
|---------------------------------------|------------|-------------------|
| Frequency Range (MHz)                 | EIRP (dBm) | EIRP (dBuV/m @3m) |
| 960-1610                              | -75.3      | 19.93             |
| 1610-1990                             | -63.3      | 31.93             |
| 1990-3100                             | -61.3      | 33.93             |
| 3100-10600                            | -41.3      | 53.93             |
| Above 10600                           | -61.3      | 33.93             |

| Radiated Emissions in GPS Bands Limit |            |                   |
|---------------------------------------|------------|-------------------|
| Frequency Range (MHz)                 | EIRP (dBm) | EIRP (dBuV/m @3m) |
| 1164-1240                             | -85.3      | 9.93              |
| 1559-1610                             | -85.3      | 9.93              |

Note:  $E \text{ (dBuV/m)} = EIRP \text{ (dBm)} + 95.23$ , example,  $E \text{ (dBuV/m)} = -85.3 + 95.23 = 9.93 \text{ dBuV/m}$ .



### 3.5.2 Measuring Instruments

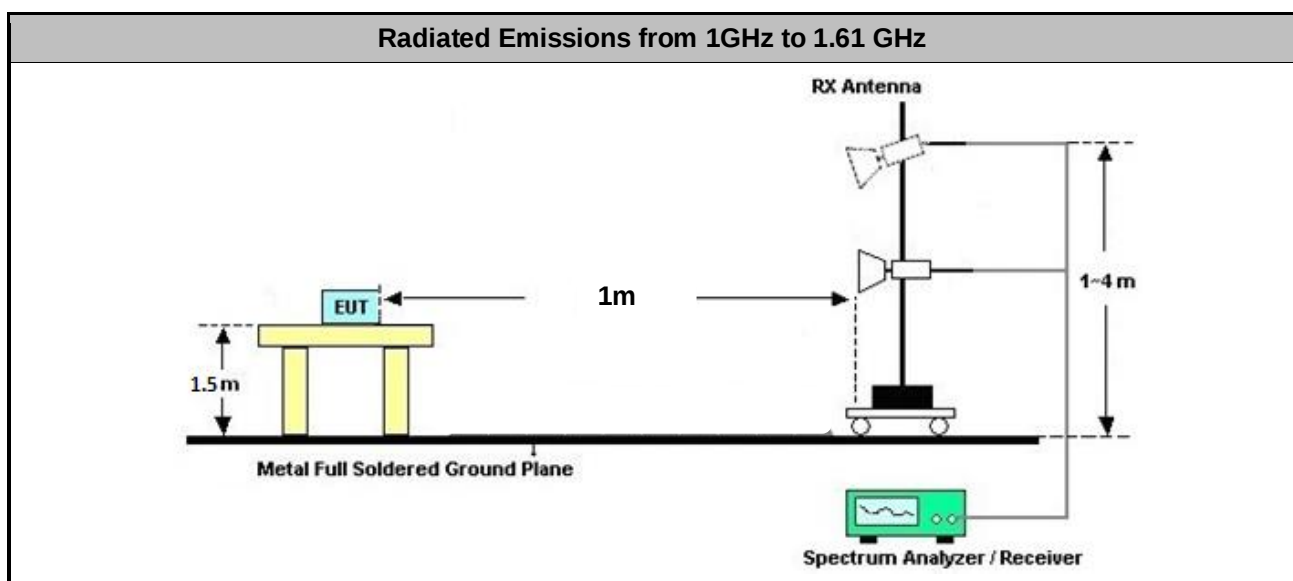
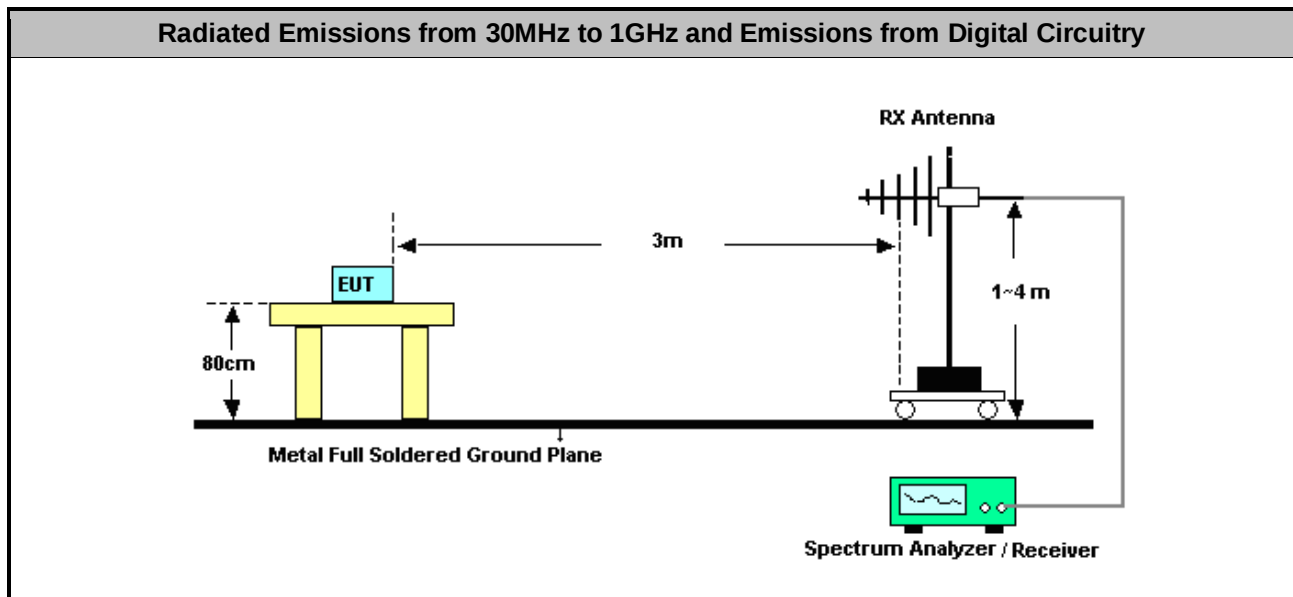
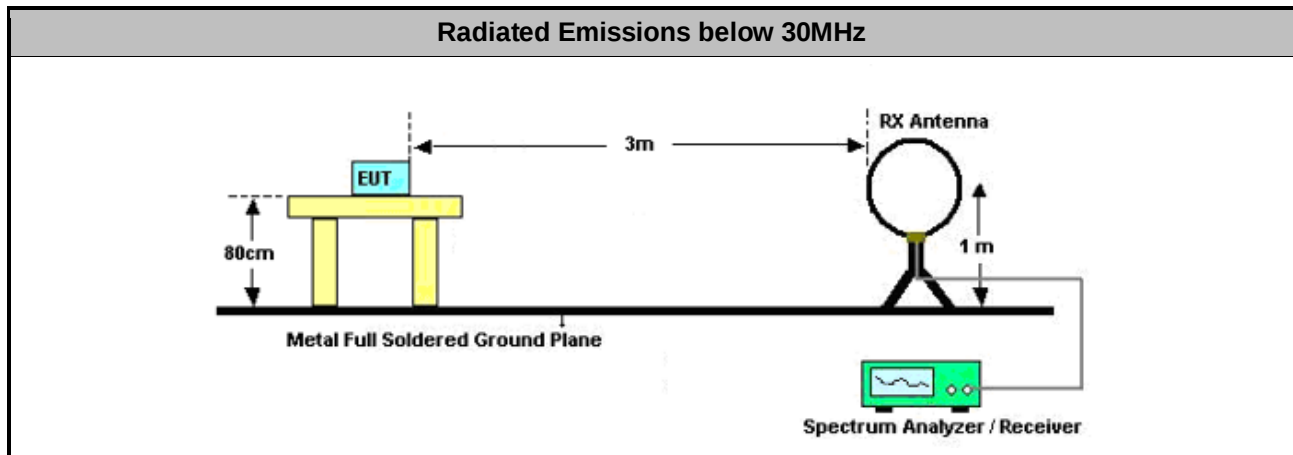
Refer a test equipment and calibration data table in this test report.

### 3.5.3 Test Procedures

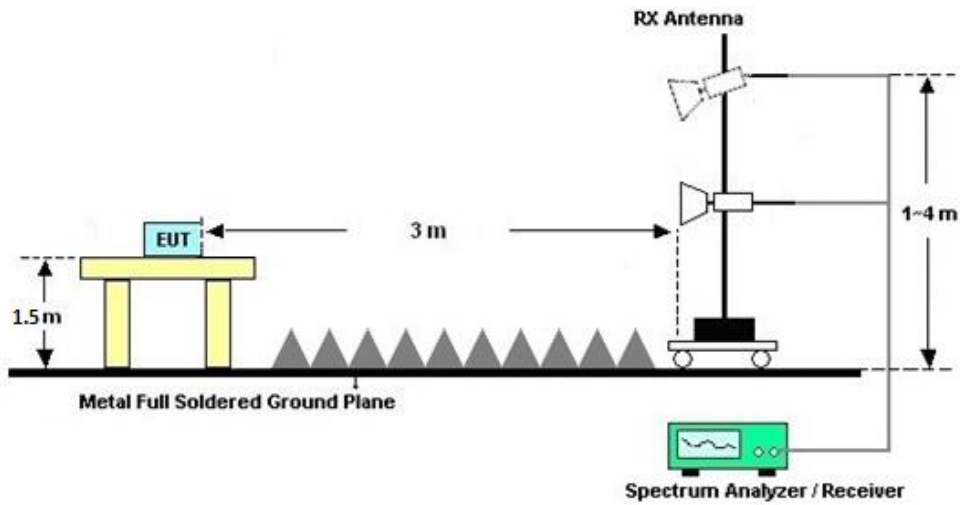
| Test Method for Radiated Emissions above 960MHz |                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/>             | Radiated Emissions above 960MHz                                                                                                                                                                                                                                                                                                                |
| <input checked="" type="checkbox"/>             | Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.                                                                                                                                                                                                                                                                |
| <input checked="" type="checkbox"/>             | Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m. In some cases, it may be necessary to measure the radiated UWB emissions at a closer distance to obtain enough signal and margin to overcome the measurement system noise floor. Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB) |
| <input checked="" type="checkbox"/>             | Refer as ANSI C63.10, clause 10.3.4 for rms detector procedure testing.                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/>             | Refer as ANSI C63.10, clause 10.3.7 for evaluating AVG-PSD (RBW=1MHz).                                                                                                                                                                                                                                                                         |
| <input checked="" type="checkbox"/>             | Refer as ANSI C63.10, clause 10.3.10 for evaluating AVG-PSD in GPS Band (RBW≥1kHz).                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/>             | For radiated measurement.                                                                                                                                                                                                                                                                                                                      |
| <input checked="" type="checkbox"/>             | Refer as ANSI C63.10, clause 10.3.8 following eirp can be used radiated test configuration.                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/>             | Refer as ANSI C63.10, clause 10.3.9 following eirp can be directly determined using the field strength.                                                                                                                                                                                                                                        |

| Test Method for Radiated Emissions below 960MHz and Emissions from Digital Circuitry |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/>                                                  | Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements) for above 30MHz-960MHz; 40dB/decade for frequency below 30MHz. |
| <input checked="" type="checkbox"/>                                                  | For the transmitter unwanted emissions shall be measured using following options below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/>                                                  | Refer as ANSI C63.10, clause 4.1.4 Detector functions and selection of bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <input type="checkbox"/>                                                             | Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions. Adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100\text{ ms})$ . Average emission = peak emission + 20 log (duty cycle).                                                                                                                                                                                                                                                                                                                                                  |
| <input checked="" type="checkbox"/>                                                  | Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input checked="" type="checkbox"/>                                                  | For radiated measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input checked="" type="checkbox"/>                                                  | Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/>                                                  | Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <input checked="" type="checkbox"/>                                                  | Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 0.5m or 1m or 3m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <input checked="" type="checkbox"/>                                                  | If the noise floor can't meet the limit, the test distance will be shorten and described in the report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/>                                                  | Any unwanted emissions level shall not exceed the fundamental emission level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

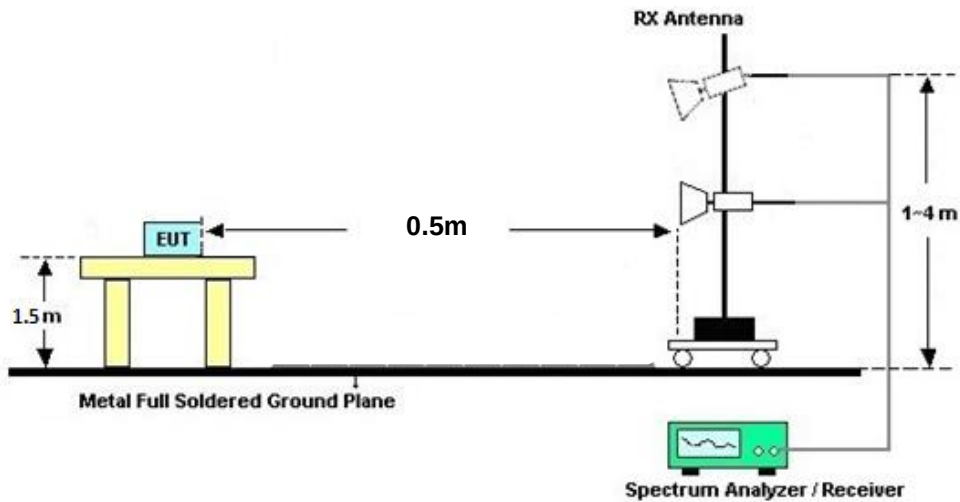
### 3.5.4 Test Setup

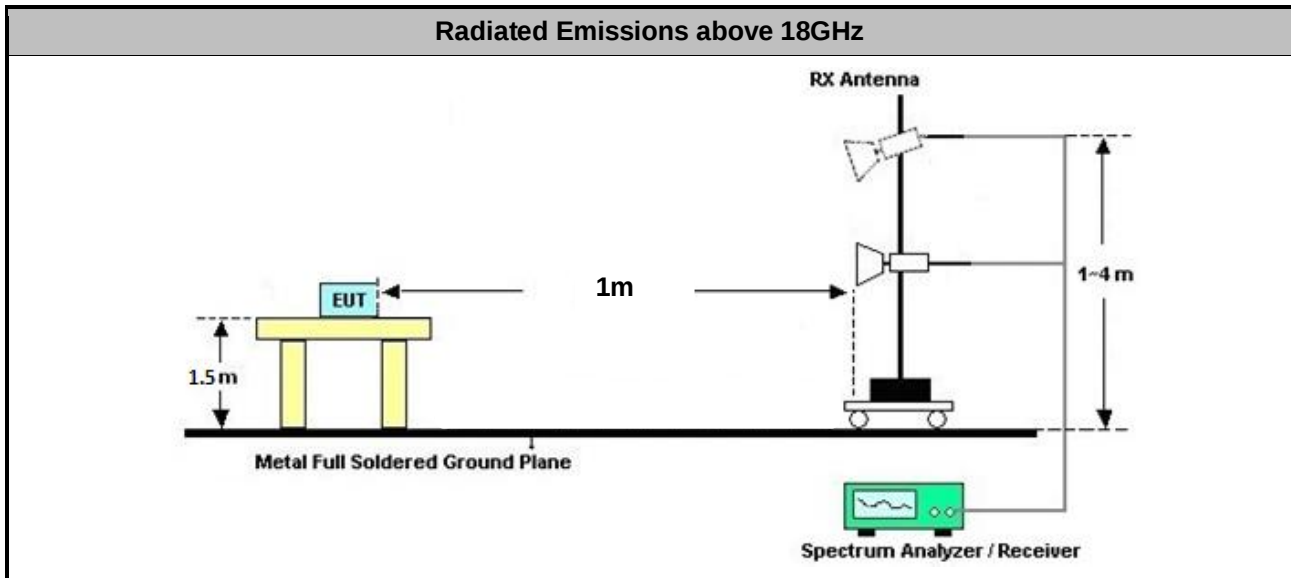


Radiated Emissions from 1.61 GHz to 10.60 GHz



Radiated Emissions from 10.60 GHz to 18GHz





Note 1: Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna and the frequency range of 1 GHz to 40 GHz using a calibrated horn antenna.

Note 2: If test distance other than 3m is used, the used test distance will be recorded in test result.

### 3.5.5 Radiated Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

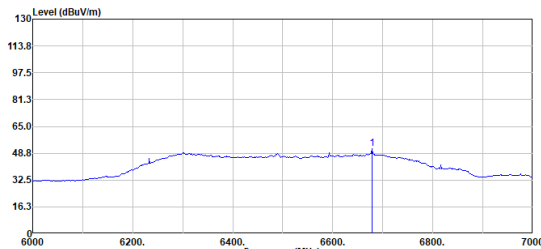
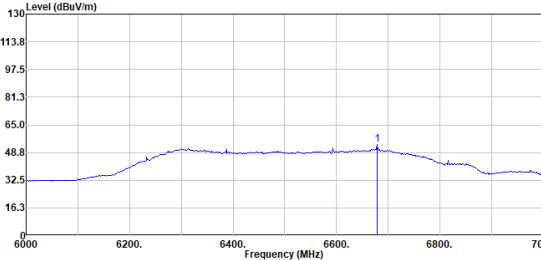
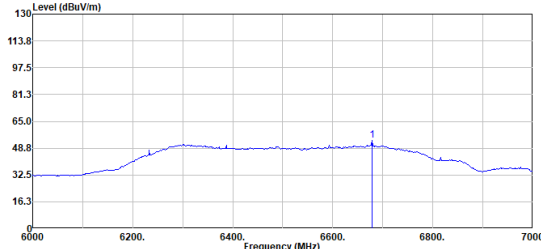
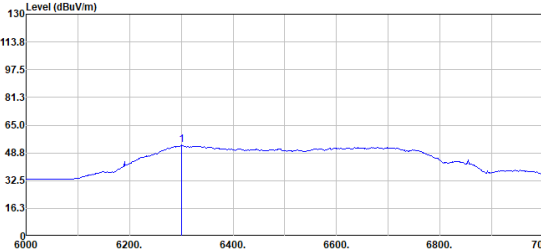
There is adequate comparison measurement of both open-field test site and alternative test site -semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

**3.5.6 Radiated Emissions (Fundamental)**

| Test mode | Frequency (MHz) | Emission Level (dBuV/m) | Emission Limit (dBm/MHz) | Emission Limit (dBuV/m) | Margin (dB) | Result | Pol (H/V) |
|-----------|-----------------|-------------------------|--------------------------|-------------------------|-------------|--------|-----------|
| 1         | 6678.26         | 51.42                   | -41.3                    | 53.9                    | -2.51       | Pass   | V         |
| 2         | 6678.26         | 53.49                   | -41.3                    | 53.9                    | -0.44       | Pass   | V         |
| 3         | 6678.26         | 53.43                   | -41.3                    | 53.9                    | -0.5        | Pass   | V         |
| 4         | 6300            | 53.25                   | -41.3                    | 53.9                    | -0.68       | Pass   | V         |
| 5         | 6294.2          | 52.48                   | -41.3                    | 53.9                    | -1.45       | Pass   | V         |
| 6         | 6294.2          | 52.97                   | -41.3                    | 53.9                    | -0.96       | Pass   | V         |
| 7         | 6288.41         | 53.75                   | -41.3                    | 53.9                    | -0.18       | Pass   | V         |
| 8         | 6298.55         | 53.72                   | -41.3                    | 53.9                    | -0.21       | Pass   | V         |
| 9         | 8144.93         | 48.73                   | -41.3                    | 53.9                    | -5.2        | Pass   | V         |
| 10        | 7789.86         | 51.75                   | -41.3                    | 53.9                    | -2.18       | Pass   | V         |
| 11        | 8144.93         | 51.23                   | -41.3                    | 53.9                    | -2.7        | Pass   | V         |
| 12        | 7789.86         | 53.36                   | -41.3                    | 53.9                    | -0.57       | Pass   | V         |
| 13        | 7789.86         | 52.96                   | -41.3                    | 53.9                    | -0.97       | Pass   | V         |
| 14        | 7789.86         | 53.01                   | -41.3                    | 53.9                    | -0.92       | Pass   | V         |
| 15        | 7789.86         | 52.99                   | -41.3                    | 53.9                    | -0.94       | Pass   | V         |
| 16        | 7789.86         | 53.1                    | -41.3                    | 53.9                    | -0.83       | Pass   | V         |

Note: E (dBuV/m) Limit= EIRP (dBm) Lmit + 95.2 = -41.3 + 95.2 = 53.9 dBuV/m.

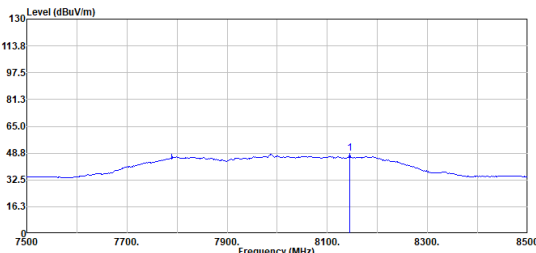
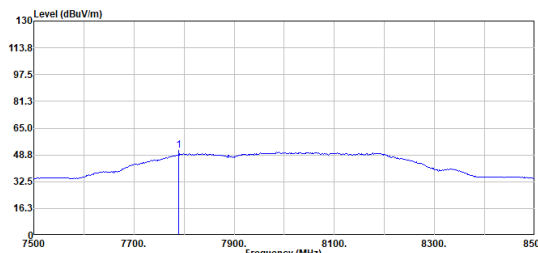
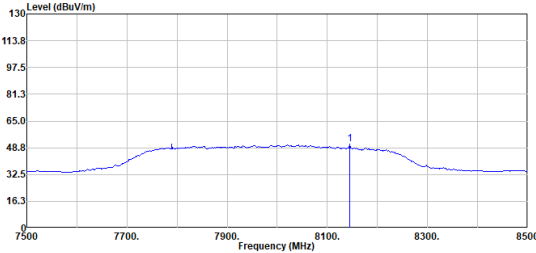
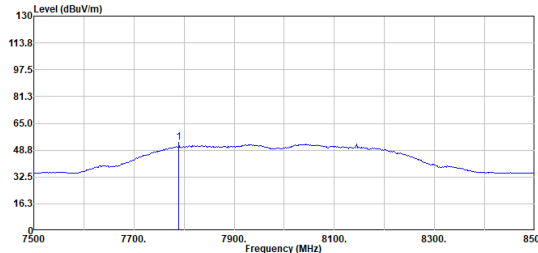


| CH05 Radiated Emissions (Fundamental)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |        |       |       |                                         |       |        |      |      |      |         |           |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|-------|-------|-----------------------------------------|-------|--------|------|------|------|---------|-----------|-----|------|------|--------|-----------|-----|--------|--------|----|------|------|----|----|----|----|-----|--|--|-----------|-------|-------|-------|-------|-------|-------|-------|------|-----|----|---------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|------|-------|-------|------|------|-----|-------|--------|-----|------|------|--------|-----------|-----|--------|--------|----|------|------|----|----|----|----|-----|--|--|-----------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|---------|----------|
| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Adapter Mode |        |       |       | Polarization                            |       | V      |      |      |      |         |           |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |        |       |       | Test Distance                           |       | 3m     |      |      |      |         |           |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| Mode 1: cidx-10_sts-0_packet length-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |        |       |       | Mode 2: cidx-10_sts-0_packet length-127 |       |        |      |      |      |         |           |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| <div><table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 6678.26</td><td>51.42</td><td>-----</td><td>-----</td><td>65.42</td><td>35.86</td><td>11.17</td><td>61.03</td><td>0.00</td><td>232</td><td>30</td><td>Average</td><td>Vertical</td></tr></table></div>   |              |        |       |       | Freq                                    | Level | Limit  | Over | Read | Ant  | Cable   | Preamp    | Aux | APos | TPos | Remark | Pol/Phase | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  |  | 1 6678.26 | 51.42 | ----- | ----- | 65.42 | 35.86 | 11.17 | 61.03 | 0.00 | 232 | 30 | Average | Vertical | <div><table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 6678.26</td><td>53.49</td><td>-----</td><td>-----</td><td>67.49</td><td>35.86</td><td>11.17</td><td>61.03</td><td>0.00</td><td>232</td><td>30</td><td>Average</td><td>Vertical</td></tr></table></div>    |  |  |  |  |  |  |  | Freq | Level | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Pol/Phase | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  |  | 1 6678.26 | 53.49 | ----- | ----- | 67.49 | 35.86 | 11.17 | 61.03 | 0.00 | 232 | 30  | Average | Vertical |
| Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Level        | Limit  | Over  | Read  | Ant                                     | Cable | Preamp | Aux  | APos | TPos | Remark  | Pol/Phase |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dBuV/m       | dBuV/m | dB    | dBuV  | dB/m                                    | dB    | dB     | dB   | cm   | deg  |         |           |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| 1 6678.26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 51.42        | -----  | ----- | 65.42 | 35.86                                   | 11.17 | 61.03  | 0.00 | 232  | 30   | Average | Vertical  |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Level        | Limit  | Over  | Read  | Ant                                     | Cable | Preamp | Aux  | APos | TPos | Remark  | Pol/Phase |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dBuV/m       | dBuV/m | dB    | dBuV  | dB/m                                    | dB    | dB     | dB   | cm   | deg  |         |           |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| 1 6678.26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 53.49        | -----  | ----- | 67.49 | 35.86                                   | 11.17 | 61.03  | 0.00 | 232  | 30   | Average | Vertical  |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| Mode 3: cidx-10_sts-1_packet length-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |        |       |       | Mode 4: cidx-10_sts-1_packet length-127 |       |        |      |      |      |         |           |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| <div><table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 6678.26</td><td>53.43</td><td>-----</td><td>-----</td><td>67.43</td><td>35.86</td><td>11.17</td><td>61.03</td><td>0.00</td><td>232</td><td>30</td><td>Average</td><td>Vertical</td></tr></table></div> |              |        |       |       | Freq                                    | Level | Limit  | Over | Read | Ant  | Cable   | Preamp    | Aux | APos | TPos | Remark | Pol/Phase | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  |  | 1 6678.26 | 53.43 | ----- | ----- | 67.43 | 35.86 | 11.17 | 61.03 | 0.00 | 232 | 30 | Average | Vertical | <div><table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 6300.00</td><td>53.25</td><td>-----</td><td>-----</td><td>67.65</td><td>35.60</td><td>10.86</td><td>60.86</td><td>0.00</td><td>160</td><td>210</td><td>Average</td><td>Vertical</td></tr></table></div> |  |  |  |  |  |  |  | Freq | Level | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Pol/Phase | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  |  | 1 6300.00 | 53.25 | ----- | ----- | 67.65 | 35.60 | 10.86 | 60.86 | 0.00 | 160 | 210 | Average | Vertical |
| Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Level        | Limit  | Over  | Read  | Ant                                     | Cable | Preamp | Aux  | APos | TPos | Remark  | Pol/Phase |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dBuV/m       | dBuV/m | dB    | dBuV  | dB/m                                    | dB    | dB     | dB   | cm   | deg  |         |           |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| 1 6678.26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 53.43        | -----  | ----- | 67.43 | 35.86                                   | 11.17 | 61.03  | 0.00 | 232  | 30   | Average | Vertical  |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Level        | Limit  | Over  | Read  | Ant                                     | Cable | Preamp | Aux  | APos | TPos | Remark  | Pol/Phase |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dBuV/m       | dBuV/m | dB    | dBuV  | dB/m                                    | dB    | dB     | dB   | cm   | deg  |         |           |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |
| 1 6300.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 53.25        | -----  | ----- | 67.65 | 35.60                                   | 10.86 | 60.86  | 0.00 | 160  | 210  | Average | Vertical  |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |    |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |       |       |       |       |       |       |      |     |     |         |          |

[illegible]

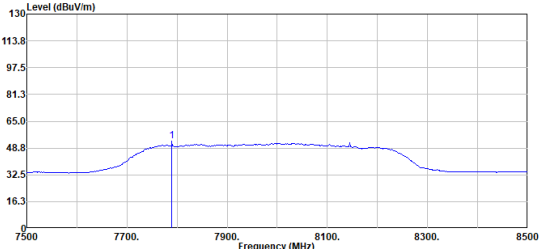
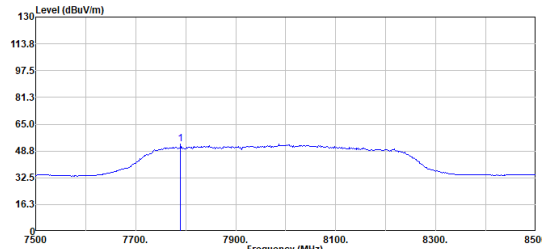
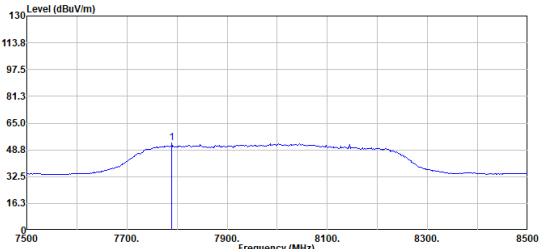
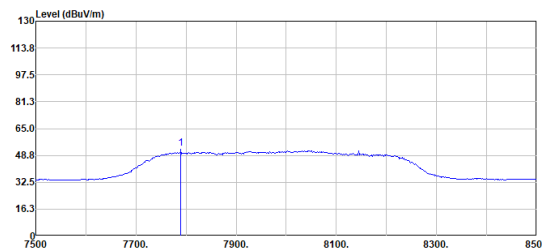


## CH09 Radiated Emissions (Fundamental)

| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Adapter Mode | Polarization                             | V      |       |       |       |       |        |       |        |      |         |           |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------|--------|-------|-------|-------|-------|--------|-------|--------|------|---------|-----------|--------|-----------|--|-----|--------|--------|----|------|------|----|----|----|----|-----|--|--|---|---------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|---------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------|-------|-------|------|------|-----|-------|--------|-----|------|------|--------|-----------|--|-----|--------|--------|----|------|------|----|----|----|----|-----|--|--|---|---------|-------|-------|-------|-------|-------|-------|-------|------|-----|---|---------|----------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | Test Distance                            | 3m     |       |       |       |       |        |       |        |      |         |           |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
| Mode 9: cidx-10_sts-0_packet length-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | Mode 10: cidx-10_sts-0_packet length-127 |        |       |       |       |       |        |       |        |      |         |           |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
|  <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>8144.93</td><td>48.73</td><td>-----</td><td>-----</td><td>60.88</td><td>35.80</td><td>12.45</td><td>60.40</td><td>0.00</td><td>300</td><td>0</td><td>Average</td><td>Vertical</td></tr></tbody></table>     |              |                                          | Freq   | Level | Limit | Over  | Read  | Ant    | Cable | Preamp | Aux  | APos    | TPos      | Remark | Pol/Phase |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  |  | 1 | 8144.93 | 48.73 | ----- | ----- | 60.88 | 35.80 | 12.45 | 60.40 | 0.00 | 300 | 0   | Average | Vertical |  <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>7789.86</td><td>51.75</td><td>-----</td><td>-----</td><td>64.19</td><td>36.00</td><td>12.14</td><td>60.58</td><td>0.00</td><td>300</td><td>0</td><td>Average</td><td>Vertical</td></tr></tbody></table>   |  |  | Freq | Level | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Pol/Phase |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  |  | 1 | 7789.86 | 51.75 | ----- | ----- | 64.19 | 36.00 | 12.14 | 60.58 | 0.00 | 300 | 0 | Average | Vertical |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Freq         | Level                                    | Limit  | Over  | Read  | Ant   | Cable | Preamp | Aux   | APos   | TPos | Remark  | Pol/Phase |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MHz          | dBuV/m                                   | dBuV/m | dB    | dBuV  | dB/m  | dB    | dB     | dB    | cm     | deg  |         |           |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8144.93      | 48.73                                    | -----  | ----- | 60.88 | 35.80 | 12.45 | 60.40  | 0.00  | 300    | 0    | Average | Vertical  |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Freq         | Level                                    | Limit  | Over  | Read  | Ant   | Cable | Preamp | Aux   | APos   | TPos | Remark  | Pol/Phase |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MHz          | dBuV/m                                   | dBuV/m | dB    | dBuV  | dB/m  | dB    | dB     | dB    | cm     | deg  |         |           |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7789.86      | 51.75                                    | -----  | ----- | 64.19 | 36.00 | 12.14 | 60.58  | 0.00  | 300    | 0    | Average | Vertical  |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
| Mode 11: cidx-10_sts-1_packet length-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              | Mode 12: cidx-10_sts-1_packet length-127 |        |       |       |       |       |        |       |        |      |         |           |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Freq         | Level                                    | Limit  | Over  | Read  | Ant   | Cable | Preamp | Aux   | APos   | TPos | Remark  | Pol/Phase |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MHz          | dBuV/m                                   | dBuV/m | dB    | dBuV  | dB/m  | dB    | dB     | dB    | cm     | deg  |         |           |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8144.93      | 51.23                                    | -----  | ----- | 63.38 | 35.80 | 12.45 | 60.40  | 0.00  | 115    | 355  | Average | Vertical  |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Freq         | Level                                    | Limit  | Over  | Read  | Ant   | Cable | Preamp | Aux   | APos   | TPos | Remark  | Pol/Phase |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MHz          | dBuV/m                                   | dBuV/m | dB    | dBuV  | dB/m  | dB    | dB     | dB    | cm     | deg  |         |           |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7789.86      | 53.26                                    | -----  | ----- | 65.70 | 36.00 | 12.14 | 60.58  | 0.00  | 115    | 0    | Average | Vertical  |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |         |       |       |       |       |       |       |       |      |     |   |         |          |

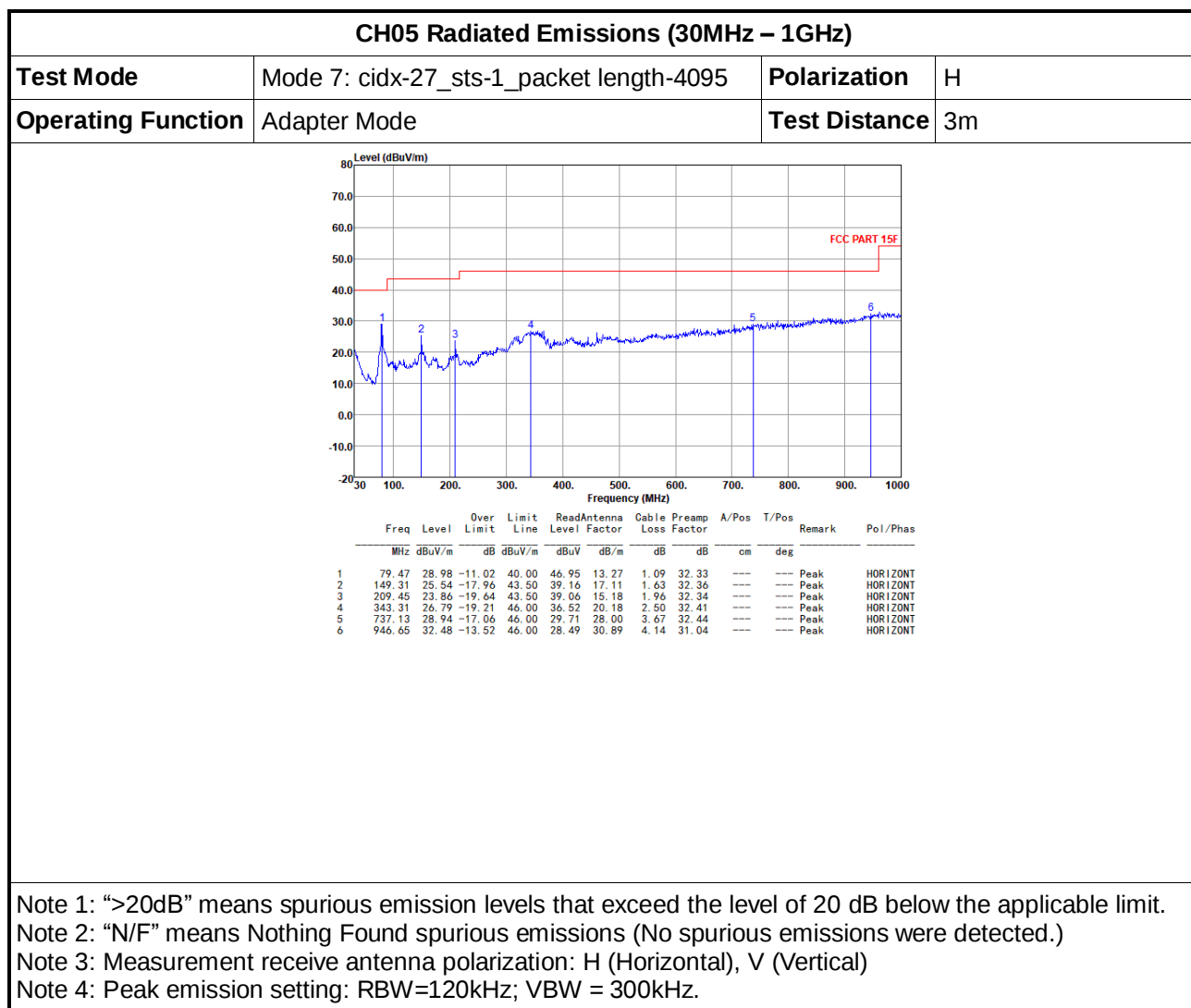


## CH09 Radiated Emissions (Fundamental)

| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Adapter Mode | Polarization                              | V     |       |       |       |        |       |        |      |         |           |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------|-------|-------|-------|-------|--------|-------|--------|------|---------|-----------|--------|-----------|-----|--------|--------|----|------|------|----|----|----|----|-----|---------|----------|-----------|-------|-------|--|-------|-------|-------|-------|------|-----|-----|---------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|-------|-------|------|------|-----|-------|--------|-----|------|------|--------|-----------|-----|--------|--------|----|------|------|----|----|----|----|-----|---------|----------|-----------|-------|-------|--|-------|-------|-------|-------|------|-----|-----|---------|----------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              | Test Distance                             | 3m    |       |       |       |        |       |        |      |         |           |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| Mode 13: cidx-10_sts-1_packet length-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              | Mode 14: cidx-27_sts-0_packet length-4095 |       |       |       |       |        |       |        |      |         |           |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
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| Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Level        | Limit                                     | Over  | Read  | Ant   | Cable | Preamp | Aux   | APos   | TPos | Remark  | Pol/Phase |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dBuV/m       | dBuV/m                                    | dB    | dBuV  | dB/m  | dB    | dB     | dB    | cm     | deg  | Average | Vertical  |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| 1 7789.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 52.96        | 65.40                                     |       | 65.40 | 36.00 | 12.14 | 60.58  | 0.00  | 115    | 355  | Average | Vertical  |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Level        | Limit                                     | Over  | Read  | Ant   | Cable | Preamp | Aux   | APos   | TPos | Remark  | Pol/Phase |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dBuV/m       | dBuV/m                                    | dB    | dBuV  | dB/m  | dB    | dB     | dB    | cm     | deg  | Average | Vertical  |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| 1 7789.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 53.01        | 65.45                                     |       | 65.45 | 36.00 | 12.14 | 60.58  | 0.00  | 115    | 355  | Average | Vertical  |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| Mode 15: cidx-27_sts-1_packet length-4095                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | Mode 16: cidx-27_sts-1_packet length-0    |       |       |       |       |        |       |        |      |         |           |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| <div><table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th>Average</th><th>Vertical</th></tr><tr><td>1 7789.86</td><td>52.99</td><td>65.43</td><td></td><td>65.43</td><td>36.00</td><td>12.14</td><td>60.58</td><td>0.00</td><td>115</td><td>355</td><td>Average</td><td>Vertical</td></tr></table></div> |              | Freq                                      | Level | Limit | Over  | Read  | Ant    | Cable | Preamp | Aux  | APos    | TPos      | Remark | Pol/Phase | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | Average | Vertical | 1 7789.86 | 52.99 | 65.43 |  | 65.43 | 36.00 | 12.14 | 60.58 | 0.00 | 115 | 355 | Average | Vertical | <div><table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th>Average</th><th>Vertical</th></tr><tr><td>1 7789.86</td><td>53.10</td><td>65.54</td><td></td><td>65.54</td><td>36.00</td><td>12.14</td><td>60.58</td><td>0.00</td><td>115</td><td>355</td><td>Average</td><td>Vertical</td></tr></table></div> |  | Freq | Level | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Pol/Phase | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | Average | Vertical | 1 7789.86 | 53.10 | 65.54 |  | 65.54 | 36.00 | 12.14 | 60.58 | 0.00 | 115 | 355 | Average | Vertical |
| Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Level        | Limit                                     | Over  | Read  | Ant   | Cable | Preamp | Aux   | APos   | TPos | Remark  | Pol/Phase |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dBuV/m       | dBuV/m                                    | dB    | dBuV  | dB/m  | dB    | dB     | dB    | cm     | deg  | Average | Vertical  |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| 1 7789.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 52.99        | 65.43                                     |       | 65.43 | 36.00 | 12.14 | 60.58  | 0.00  | 115    | 355  | Average | Vertical  |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Level        | Limit                                     | Over  | Read  | Ant   | Cable | Preamp | Aux   | APos   | TPos | Remark  | Pol/Phase |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dBuV/m       | dBuV/m                                    | dB    | dBuV  | dB/m  | dB    | dB     | dB    | cm     | deg  | Average | Vertical  |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |
| 1 7789.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 53.10        | 65.54                                     |       | 65.54 | 36.00 | 12.14 | 60.58  | 0.00  | 115    | 355  | Average | Vertical  |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |         |          |           |       |       |  |       |       |       |       |      |     |     |         |          |



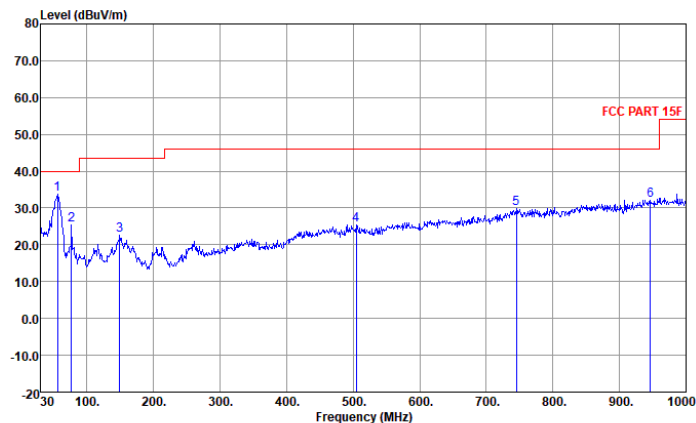
## 3.5.7 Radiated Emissions (30MHz – 1GHz)





## CH05 Radiated Emissions (30MHz – 1GHz)

|                    |                                          |               |    |
|--------------------|------------------------------------------|---------------|----|
| Test Mode          | Mode 7: cidx-27_sts-1_packet length-4095 | Polarization  | V  |
| Operating Function | Adapter Mode                             | Test Distance | 3m |



|   | Freq<br>MHz | Level<br>dBuV/m | Over<br>Limit<br>dB | Limit<br>Line<br>dBuV/m | ReadAntenna<br>Level<br>dBuV | Cable<br>Factor<br>dB/m | Preamp<br>Loss<br>dB | A/Pos<br>dB | T/Pos<br>cm | Remark | Pol/Phas |
|---|-------------|-----------------|---------------------|-------------------------|------------------------------|-------------------------|----------------------|-------------|-------------|--------|----------|
| 1 | 56.19       | 33.63           | -6.37               | 40.00                   | 52.84                        | 12.39                   | 0.79                 | 32.39       | ---         | Peak   | VERTICAL |
| 2 | 76.56       | 25.31           | -14.69              | 40.00                   | 43.63                        | 13.04                   | 1.04                 | 32.40       | ---         | Peak   | VERTICAL |
| 3 | 149.31      | 22.50           | -21.00              | 43.50                   | 36.12                        | 17.11                   | 1.63                 | 32.36       | ---         | Peak   | VERTICAL |
| 4 | 504.33      | 25.50           | -20.50              | 46.00                   | 30.80                        | 24.21                   | 3.03                 | 32.54       | ---         | Peak   | VERTICAL |
| 5 | 744.89      | 29.92           | -16.08              | 46.00                   | 30.47                        | 28.17                   | 3.69                 | 32.41       | ---         | Peak   | VERTICAL |
| 6 | 946.65      | 32.20           | -13.80              | 46.00                   | 28.21                        | 30.89                   | 4.14                 | 31.04       | ---         | Peak   | VERTICAL |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

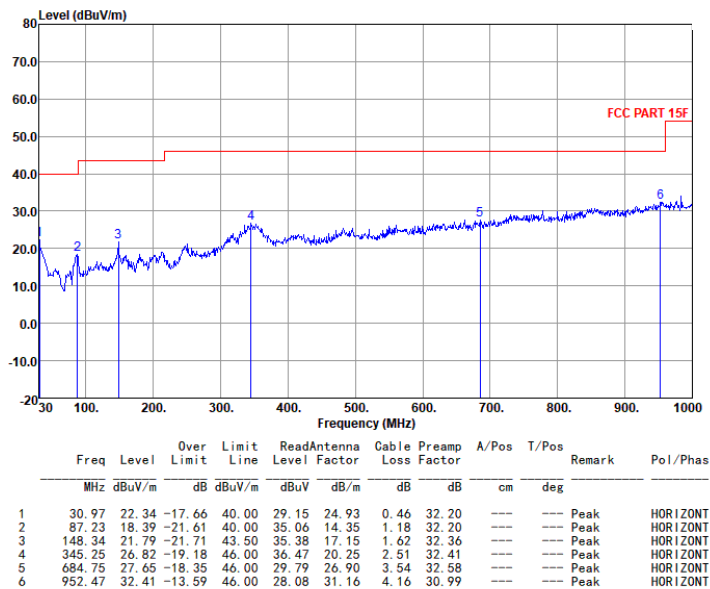
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Peak emission setting: RBW=120kHz; VBW = 300kHz.



## CH09 Radiated Emissions (30MHz – 1GHz)

|                    |                                          |               |    |
|--------------------|------------------------------------------|---------------|----|
| Test Mode          | Mode 12: cidx-10_sts-1_packet length-127 | Polarization  | H  |
| Operating Function | Adapter Mode                             | Test Distance | 3m |



Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

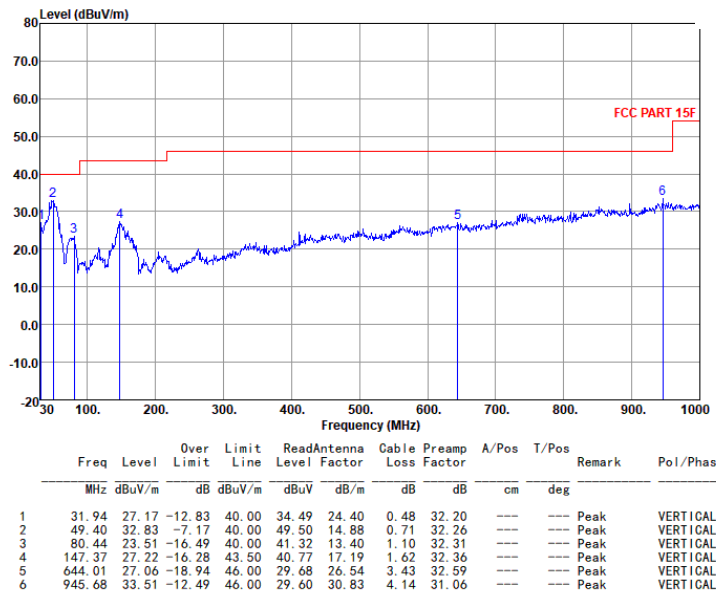
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Peak emission setting: RBW=120kHz; VBW = 300kHz.



## CH09 Radiated Emissions (30MHz – 1GHz)

|                    |                                          |               |    |
|--------------------|------------------------------------------|---------------|----|
| Test Mode          | Mode 12: cidx-10_sts-1_packet length-127 | Polarization  | V  |
| Operating Function | Adapter Mode                             | Test Distance | 3m |



Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

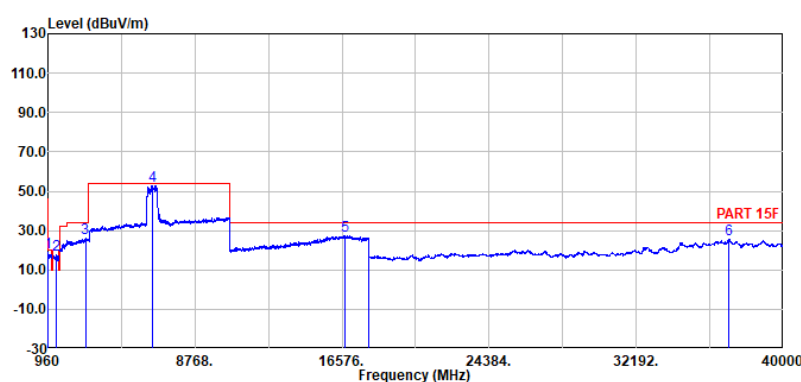
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Peak emission setting: RBW=120kHz; VBW = 300kHz.

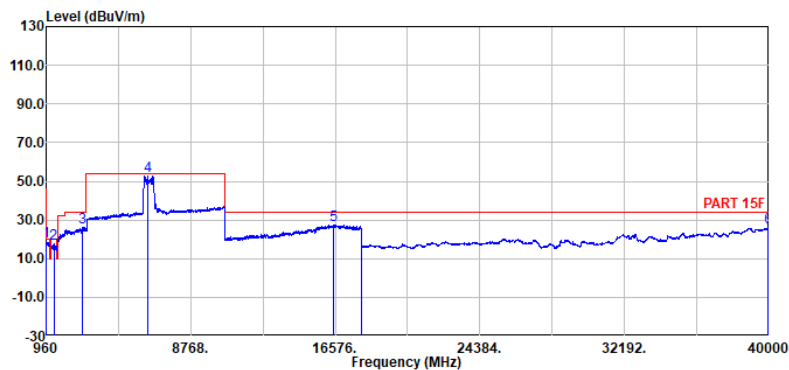


## 3.5.8 Radiated Emissions (960MHz – 40GHz)

| CH05 Radiated Emissions (960MHz – 40GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |        |        |       |       |       |       |              |        |      |      |         |            |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|-------|-------|-------|--------------|--------|------|------|---------|------------|------|-------|-------|------|------|-----|-------|--------|-----|------|------|--------|-----------|--|-----|--------|--------|----|------|------|----|----|----|----|-----|--|--|---|--------|-------|-------|-------|-------|-------|------|-------|--------|-----|-----|---------|------------|---|---------|-------|-------|-------|-------|-------|------|-------|--------|-----|-----|---------|------------|---|---------|-------|-------|-------|-------|-------|------|-------|-------|-----|-----|---------|------------|---|---------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|---------|------------|---|----------|-------|-------|-------|-------|-------|-------|-------|--------|-----|-----|---------|------------|---|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|---------|------------|
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mode 7: cidx-27_sts-1_packet length-4095                                                                               |        |        |       |       |       |       | Polarization | H      |      |      |         |            |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Adapter Mode                                                                                                           |        |        |       |       |       |       |              |        |      |      |         |            |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
| Test Distance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 960 ~1164 MHz: 0.5m<br>1164 ~ 1610 MHz: 1m<br>1610 ~ 10600 MHz: 3m<br>10600 ~ 18000 MHz: 0.5m<br>18000 ~ 40000 MHz: 1m |        |        |       |       |       |       |              |        |      |      |         |            |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
| <div></div> <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>963.80</td><td>18.86</td><td>19.93</td><td>-1.07</td><td>62.53</td><td>29.85</td><td>4.24</td><td>62.20</td><td>-15.56</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr><tr><td>2</td><td>1397.27</td><td>17.59</td><td>19.93</td><td>-2.34</td><td>62.05</td><td>28.40</td><td>5.02</td><td>62.32</td><td>-15.56</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr><tr><td>3</td><td>2948.78</td><td>25.93</td><td>33.93</td><td>-8.00</td><td>56.53</td><td>32.79</td><td>7.31</td><td>61.16</td><td>-9.54</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr><tr><td>4</td><td>6515.20</td><td>52.82</td><td>53.93</td><td>-1.11</td><td>67.02</td><td>35.73</td><td>11.03</td><td>60.96</td><td>0.00</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr><tr><td>5</td><td>16749.40</td><td>27.52</td><td>33.93</td><td>-6.41</td><td>42.44</td><td>41.80</td><td>18.10</td><td>59.26</td><td>-15.56</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr><tr><td>6</td><td>37118.00</td><td>25.59</td><td>33.93</td><td>-8.34</td><td>17.84</td><td>39.48</td><td>33.07</td><td>55.26</td><td>-9.54</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr></table> |                                                                                                                        |        |        |       |       |       |       |              |        |      |      |         |            | Freq | Level | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Pol/Phase |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  |  | 1 | 963.80 | 18.86 | 19.93 | -1.07 | 62.53 | 29.85 | 4.24 | 62.20 | -15.56 | --- | --- | Average | Horizontal | 2 | 1397.27 | 17.59 | 19.93 | -2.34 | 62.05 | 28.40 | 5.02 | 62.32 | -15.56 | --- | --- | Average | Horizontal | 3 | 2948.78 | 25.93 | 33.93 | -8.00 | 56.53 | 32.79 | 7.31 | 61.16 | -9.54 | --- | --- | Average | Horizontal | 4 | 6515.20 | 52.82 | 53.93 | -1.11 | 67.02 | 35.73 | 11.03 | 60.96 | 0.00 | --- | --- | Average | Horizontal | 5 | 16749.40 | 27.52 | 33.93 | -6.41 | 42.44 | 41.80 | 18.10 | 59.26 | -15.56 | --- | --- | Average | Horizontal | 6 | 37118.00 | 25.59 | 33.93 | -8.34 | 17.84 | 39.48 | 33.07 | 55.26 | -9.54 | --- | --- | Average | Horizontal |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Freq                                                                                                                   | Level  | Limit  | Over  | Read  | Ant   | Cable | Preamp       | Aux    | APos | TPos | Remark  | Pol/Phase  |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MHz                                                                                                                    | dBuV/m | dBuV/m | dB    | dBuV  | dB/m  | dB    | dB           | dB     | cm   | deg  |         |            |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 963.80                                                                                                                 | 18.86  | 19.93  | -1.07 | 62.53 | 29.85 | 4.24  | 62.20        | -15.56 | ---  | ---  | Average | Horizontal |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1397.27                                                                                                                | 17.59  | 19.93  | -2.34 | 62.05 | 28.40 | 5.02  | 62.32        | -15.56 | ---  | ---  | Average | Horizontal |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2948.78                                                                                                                | 25.93  | 33.93  | -8.00 | 56.53 | 32.79 | 7.31  | 61.16        | -9.54  | ---  | ---  | Average | Horizontal |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6515.20                                                                                                                | 52.82  | 53.93  | -1.11 | 67.02 | 35.73 | 11.03 | 60.96        | 0.00   | ---  | ---  | Average | Horizontal |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 16749.40                                                                                                               | 27.52  | 33.93  | -6.41 | 42.44 | 41.80 | 18.10 | 59.26        | -15.56 | ---  | ---  | Average | Horizontal |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 37118.00                                                                                                               | 25.59  | 33.93  | -8.34 | 17.84 | 39.48 | 33.07 | 55.26        | -9.54  | ---  | ---  | Average | Horizontal |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |
| <p>Note 1: “&gt;20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.</p> <p>Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)</p> <p>Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)</p> <p>Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.</p> <p>Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.</p> <p>Note 6: #5 is fundamental signal.</p> <p>Note 7:</p> <ul style="list-style-type: none"><li>Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)<br/><b>Example:</b> Distance extrapolation factor = 20log (0.5m/3m) = -15.56 (dB)</li><li>Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |        |        |       |       |       |       |              |        |      |      |         |            |      |       |       |      |      |     |       |        |     |      |      |        |           |  |     |        |        |    |      |      |    |    |    |    |     |  |  |   |        |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |        |     |     |         |            |   |         |       |       |       |       |       |      |       |       |     |     |         |            |   |         |       |       |       |       |       |       |       |      |     |     |         |            |   |          |       |       |       |       |       |       |       |        |     |     |         |            |   |          |       |       |       |       |       |       |       |       |     |     |         |            |

**CH05 Radiated Emissions (960MHz – 40GHz)**

|                           |                                                                                                                        |                     |   |
|---------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------|---|
| <b>Test Mode</b>          | Mode 7: cidx-27_sts-1_packet length-4095                                                                               | <b>Polarization</b> | V |
| <b>Operating Function</b> | Adapter Mode                                                                                                           |                     |   |
| <b>Test Distance</b>      | 960 ~1164 MHz: 0.5m<br>1164 ~ 1610 MHz: 1m<br>1610 ~ 10600 MHz: 3m<br>10600 ~ 18000 MHz: 0.5m<br>18000 ~ 40000 MHz: 1m |                     |   |



|   | Freq     | Level  | Limit  | Over  | Read  | Ant   | Cable | Preamp | Aux    | APos | TPos | Remark  | Pol/Phase |
|---|----------|--------|--------|-------|-------|-------|-------|--------|--------|------|------|---------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB    | dBuV  | dB/m  | dB    | dB     | dB     | dB   | deg  |         |           |
| 1 | 961.40   | 18.72  | 19.93  | -1.21 | 62.68 | 29.57 | 4.24  | 62.21  | -15.56 | ---  | ---  | Average | Vertical  |
| 2 | 1370.47  | 17.67  | 19.93  | -2.26 | 62.18 | 28.40 | 4.97  | 62.32  | -15.56 | ---  | ---  | Average | Vertical  |
| 3 | 2920.16  | 26.22  | 33.93  | -7.71 | 57.16 | 32.56 | 7.29  | 61.25  | -9.54  | ---  | ---  | Average | Vertical  |
| 4 | 6441.20  | 52.67  | 53.93  | -1.26 | 67.10 | 35.50 | 11.00 | 60.93  | 0.00   | ---  | ---  | Average | Vertical  |
| 5 | 16483.00 | 27.45  | 33.93  | -6.48 | 42.97 | 41.35 | 17.97 | 59.28  | -15.56 | ---  | ---  | Average | Vertical  |
| 6 | 39956.00 | 25.85  | 33.93  | -8.08 | 14.68 | 41.21 | 34.35 | 54.85  | -9.54  | ---  | ---  | Average | Vertical  |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

Note 6: #5 is fundamental signal.

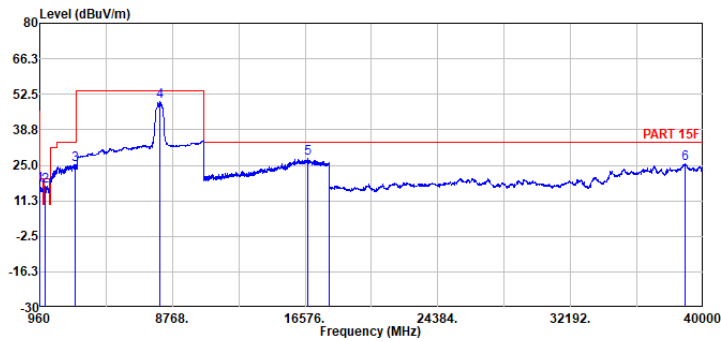
Note 7:

- Distance extrapolation factor =  $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$  (dB)  
**Example:** Distance extrapolation factor =  $20 \log (0.5\text{m}/3\text{m}) = -15.56$  (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



## CH09 Radiated Emissions (960MHz – 40GHz)

|                    |                                                                                                                        |              |   |
|--------------------|------------------------------------------------------------------------------------------------------------------------|--------------|---|
| Test Mode          | Mode 12: cidx-10_sts-1_packet length-127                                                                               | Polarization | H |
| Operating Function | Adapter Mode                                                                                                           |              |   |
| Test Distance      | 960 ~1164 MHz: 0.5m<br>1164 ~ 1610 MHz: 1m<br>1610 ~ 10600 MHz: 3m<br>10600 ~ 18000 MHz: 0.5m<br>18000 ~ 40000 MHz: 1m |              |   |



|   | Freq     | Level  | Limit  | Over  | Read  | Ant   | Cable | Preamp | Aux    | Apos | TPos | Remark  | Pol/Phase  |
|---|----------|--------|--------|-------|-------|-------|-------|--------|--------|------|------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB    | dBuV  | dB/m  | dB    | dB     | dB     | cm   | deg  |         |            |
| 1 | 960.41   | 17.39  | 19.93  | -2.54 | 61.05 | 29.87 | 4.24  | 62.21  | -15.56 | ---  | ---  | Peak    | Horizontal |
| 2 | 1260.10  | 16.91  | 19.93  | -3.02 | 61.80 | 28.22 | 4.76  | 62.31  | -15.56 | ---  | ---  | Average | Horizontal |
| 3 | 3058.49  | 25.30  | 33.93  | -8.63 | 55.86 | 32.73 | 7.45  | 61.20  | -9.54  | ---  | ---  | Average | Horizontal |
| 4 | 8039.60  | 49.60  | 53.93  | -4.33 | 61.57 | 35.82 | 12.44 | 60.23  | 0.00   | ---  | ---  | Average | Horizontal |
| 5 | 16756.80 | 27.69  | 33.93  | -6.24 | 42.60 | 41.80 | 18.10 | 59.25  | -15.56 | ---  | ---  | Average | Horizontal |
| 6 | 38944.00 | 25.71  | 33.93  | -8.22 | 14.48 | 41.41 | 34.13 | 54.77  | -9.54  | ---  | ---  | Average | Horizontal |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

Note 6: #5 is fundamental signal.

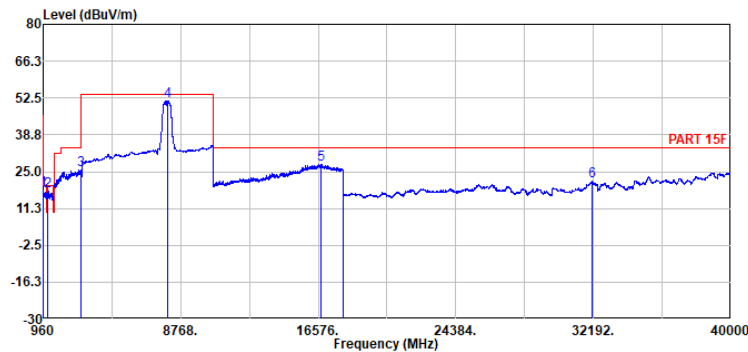
Note 7:

- Distance extrapolation factor =  $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$  (dB)  
**Example:** Distance extrapolation factor =  $20 \log (0.5\text{m}/3\text{m}) = -15.56$  (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



## CH09 Radiated Emissions (960MHz – 40GHz)

|                    |                                                                                                                        |              |   |
|--------------------|------------------------------------------------------------------------------------------------------------------------|--------------|---|
| Test Mode          | Mode 12: cidx-10_sts-1_packet length-127                                                                               | Polarization | V |
| Operating Function | Adapter Mode                                                                                                           |              |   |
| Test Distance      | 960 ~1164 MHz: 0.5m<br>1164 ~ 1610 MHz: 1m<br>1610 ~ 10600 MHz: 3m<br>10600 ~ 18000 MHz: 0.5m<br>18000 ~ 40000 MHz: 1m |              |   |



|   | Freq     | Level  | Limit  | Over   | Read  | Ant   | Cable | Preamp | Aux    | APos | TPos | Remark  | Pol/Phase |
|---|----------|--------|--------|--------|-------|-------|-------|--------|--------|------|------|---------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB/m  | dB    | dB     | dB     | dB   | cm   | deg     |           |
| 1 | 961.02   | 17.99  | 19.93  | -1.94  | 61.95 | 29.57 | 4.24  | 62.21  | -15.56 | ---  | ---  | Average | Vertical  |
| 2 | 1243.19  | 17.64  | 19.93  | -2.29  | 62.59 | 28.19 | 4.73  | 62.31  | -15.56 | ---  | ---  | Average | Vertical  |
| 3 | 3082.34  | 25.73  | 33.93  | -8.20  | 56.23 | 32.83 | 7.49  | 61.28  | -9.54  | ---  | ---  | Peak    | Vertical  |
| 4 | 8039.60  | 51.49  | 53.93  | -2.44  | 63.46 | 35.82 | 12.44 | 60.23  | 0.00   | ---  | ---  | Average | Vertical  |
| 5 | 16719.80 | 27.65  | 33.93  | -6.28  | 42.59 | 41.80 | 18.08 | 59.26  | -15.56 | ---  | ---  | Average | Vertical  |
| 6 | 32146.00 | 21.67  | 33.93  | -12.26 | 18.31 | 36.52 | 31.30 | 54.92  | -9.54  | ---  | ---  | Average | Vertical  |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

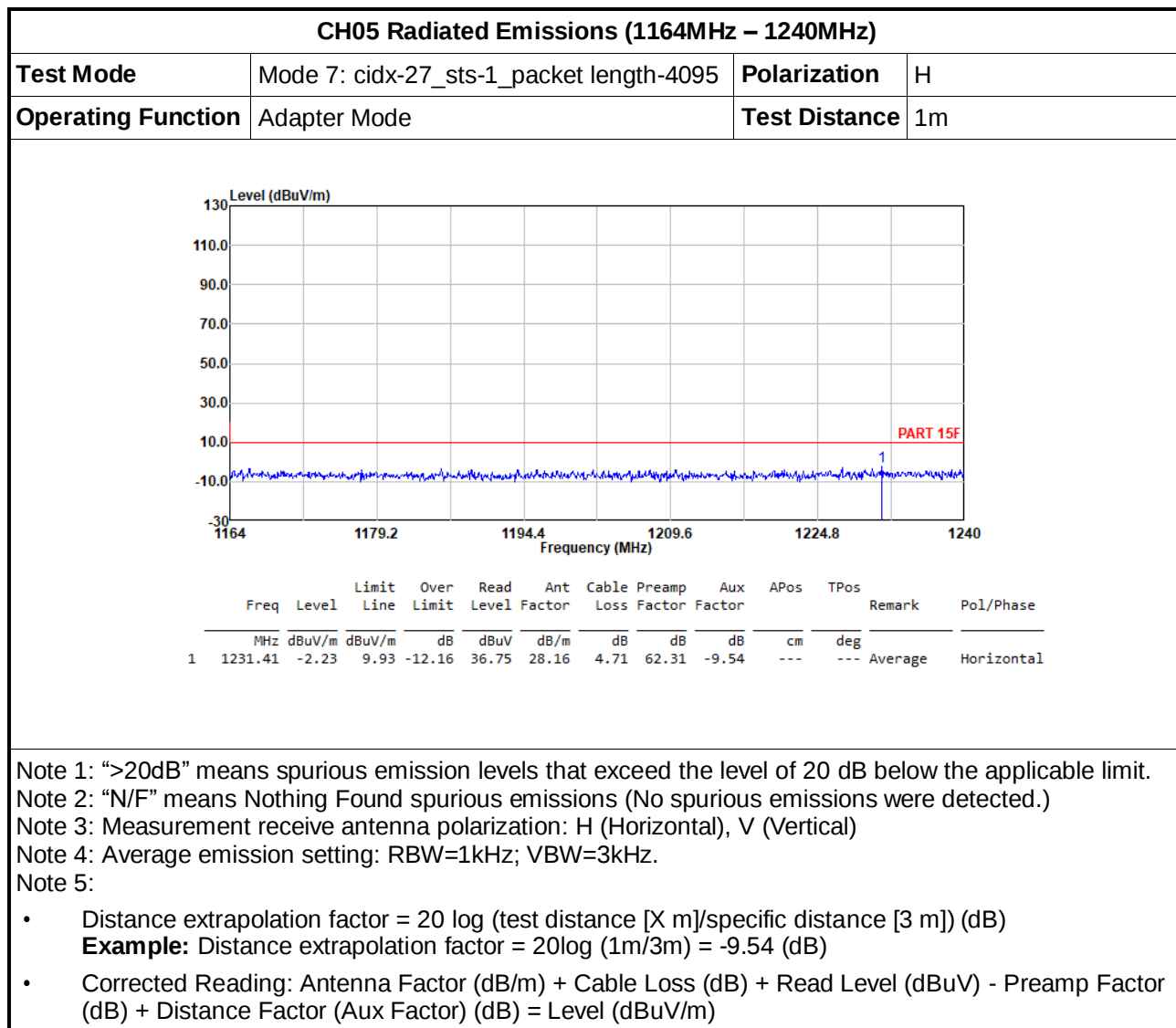
Note 6: #5 is fundamental signal.

Note 7:

- Distance extrapolation factor =  $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$  (dB)  
**Example:** Distance extrapolation factor =  $20 \log (0.5\text{m}/3\text{m}) = -15.56$  (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



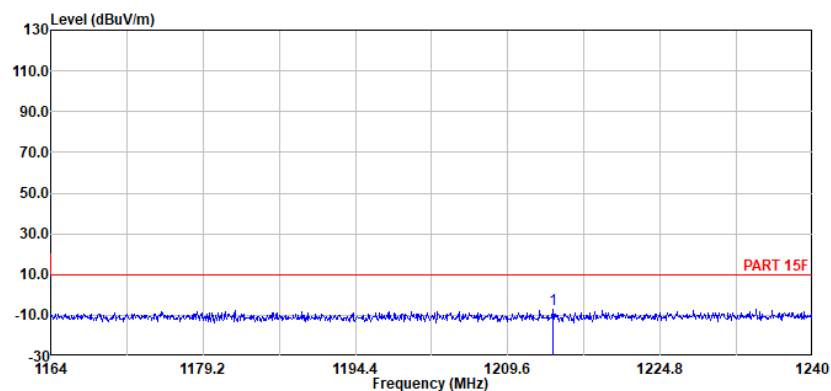
## 3.5.9 Radiated Emissions (1164MHz – 1240MHz)





## CH05 Radiated Emissions (1164MHz – 1240MHz)

|                    |                                          |               |    |
|--------------------|------------------------------------------|---------------|----|
| Test Mode          | Mode 7: cidx-27_sts-1_packet length-4095 | Polarization  | V  |
| Operating Function | Adapter Mode                             | Test Distance | 1m |



|   | Freq    | Level  | Limit  | Over   | Read  | Ant   | Cable | Preamp | Aux   | APos | TPos | Remark  | Pol/Phase |
|---|---------|--------|--------|--------|-------|-------|-------|--------|-------|------|------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB/m  | dB    | dB     | dB    | cm   | deg  |         |           |
| 1 | 1214.08 | -6.99  | 9.93   | -16.92 | 32.05 | 28.13 | 4.68  | 62.31  | -9.54 | ---  | ---  | Average | Vertical  |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

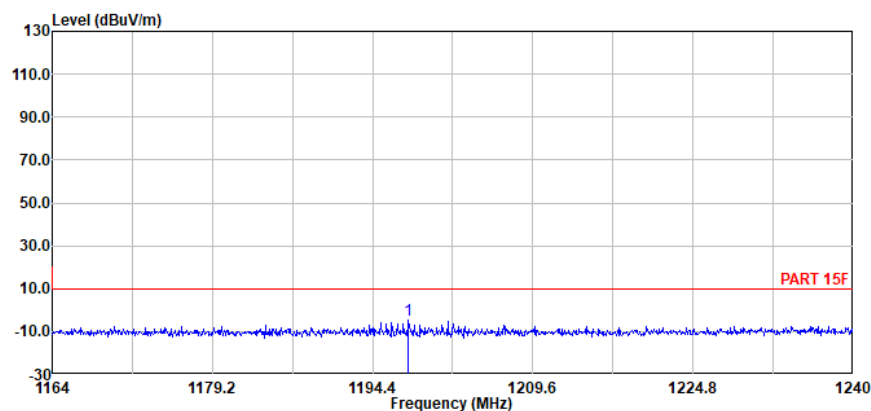
Note 5:

- Distance extrapolation factor =  $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$  (dB)  
**Example:** Distance extrapolation factor =  $20 \log (1\text{m}/3\text{m}) = -9.54$  (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



## CH09 Radiated Emissions (1164MHz – 1240MHz)

|                    |                                          |               |    |
|--------------------|------------------------------------------|---------------|----|
| Test Mode          | Mode 12: cidx-10_sts-1_packet length-127 | Polarization  | H  |
| Operating Function | Adapter Mode                             | Test Distance | 1m |



|   | Freq    | Level  | Limit  | Over   | Read  | Ant   | Cable | Preamp | Aux   | APos | TPos | Remark  | Pol/Phase  |
|---|---------|--------|--------|--------|-------|-------|-------|--------|-------|------|------|---------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB/m  | dB    | dB     | dB    | cm   | deg  |         |            |
| 1 | 1197.82 | -4.49  | 9.93   | -14.42 | 34.61 | 28.10 | 4.65  | 62.31  | -9.54 | ---  | ---  | Average | Horizontal |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

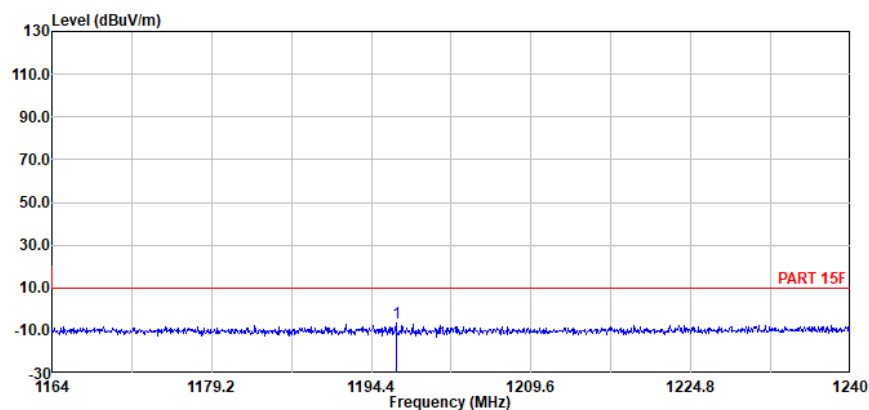
Note 5:

- Distance extrapolation factor =  $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$  (dB)  
**Example:** Distance extrapolation factor =  $20 \log (1\text{m}/3\text{m}) = -9.54$  (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



## CH09 Radiated Emissions (1164MHz – 1240MHz)

|                    |                                          |               |    |
|--------------------|------------------------------------------|---------------|----|
| Test Mode          | Mode 12: cidx-10_sts-1_packet length-127 | Polarization  | V  |
| Operating Function | Adapter Mode                             | Test Distance | 1m |



|   | Freq    | Level  | Limit  | Over   | Read  | Ant   | Cable | Preamp | Aux   | APos | TPos | Remark  | Pol/Phase |
|---|---------|--------|--------|--------|-------|-------|-------|--------|-------|------|------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB/m  | dB    | dB     | dB    | cm   | deg  |         |           |
| 1 | 1196.76 | -6.57  | 9.93   | -16.50 | 32.52 | 28.11 | 4.65  | 62.31  | -9.54 | ---  | ---  | Average | Vertical  |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5:

- Distance extrapolation factor =  $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$  (dB)  
**Example:** Distance extrapolation factor =  $20 \log (1\text{m}/3\text{m}) = -9.54$  (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



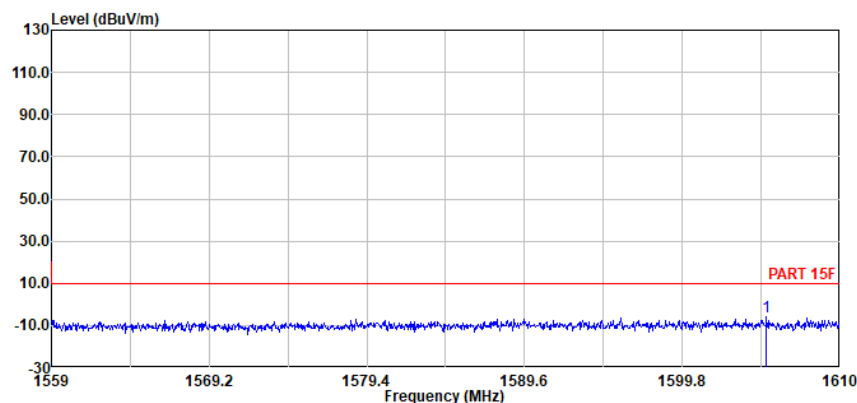
## 3.5.10 Radiated Emissions (1559MHz – 1610MHz)

| CH05 Radiated Emissions (1559MHz – 1610MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |        |        |       |       |       |        |               |      |      |         |            |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |      |        |       |       |      |       |       |     |     |         |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------|--------|-------|-------|-------|--------|---------------|------|------|---------|------------|------|-------|-------|------|------|-----|-------|--------|-----|------|------|--------|-----------|-----|--------|--------|----|------|------|----|----|----|----|-----|--|--|-----------|-------|------|--------|-------|-------|------|-------|-------|-----|-----|---------|------------|
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mode 7: cidx-27_sts-1_packet length-4095 |        |        |       |       |       |        | Polarization  | H    |      |         |            |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |      |        |       |       |      |       |       |     |     |         |            |
| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Adapter Mode                             |        |        |       |       |       |        | Test Distance | 1m   |      |         |            |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |      |        |       |       |      |       |       |     |     |         |            |
| <div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p></div> <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 1576.75</td><td>-6.35</td><td>9.93</td><td>-16.28</td><td>31.91</td><td>28.38</td><td>5.35</td><td>62.45</td><td>-9.54</td><td>---</td><td>---</td><td>Average</td><td>Horizontal</td></tr></table>                                                                                                                                          |                                          |        |        |       |       |       |        |               |      |      |         |            | Freq | Level | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Pol/Phase | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg |  |  | 1 1576.75 | -6.35 | 9.93 | -16.28 | 31.91 | 28.38 | 5.35 | 62.45 | -9.54 | --- | --- | Average | Horizontal |
| Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Level                                    | Limit  | Over   | Read  | Ant   | Cable | Preamp | Aux           | APos | TPos | Remark  | Pol/Phase  |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |      |        |       |       |      |       |       |     |     |         |            |
| MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | dBuV/m                                   | dBuV/m | dB     | dBuV  | dB/m  | dB    | dB     | dB            | cm   | deg  |         |            |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |      |        |       |       |      |       |       |     |     |         |            |
| 1 1576.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -6.35                                    | 9.93   | -16.28 | 31.91 | 28.38 | 5.35  | 62.45  | -9.54         | ---  | ---  | Average | Horizontal |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |      |        |       |       |      |       |       |     |     |         |            |
| <p>Note 1: “&gt;20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.</p> <p>Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)</p> <p>Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)</p> <p>Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.</p> <p>Note 5:</p> <ul style="list-style-type: none"><li>Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)<br/><b>Example:</b> Distance extrapolation factor = 20log (1m/3m) = -9.54 (dB)</li><li>Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)</li></ul> |                                          |        |        |       |       |       |        |               |      |      |         |            |      |       |       |      |      |     |       |        |     |      |      |        |           |     |        |        |    |      |      |    |    |    |    |     |  |  |           |       |      |        |       |       |      |       |       |     |     |         |            |



## CH05 Radiated Emissions (1559MHz – 1610MHz)

|                    |                                          |               |    |
|--------------------|------------------------------------------|---------------|----|
| Test Mode          | Mode 7: cidx-27_sts-1_packet length-4095 | Polarization  | V  |
| Operating Function | Adapter Mode                             | Test Distance | 1m |



|   | Freq    | Level  | Limit  | Over   | Read  | Ant   | Cable | Preamp | Aux   | Apos | TPos | Remark  | Pol/Phase |
|---|---------|--------|--------|--------|-------|-------|-------|--------|-------|------|------|---------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB/m  | dB    | dB     | dB    | cm   | deg  |         |           |
| 1 | 1605.26 | -6.05  | 9.93   | -15.98 | 31.74 | 28.82 | 5.40  | 62.47  | -9.54 | ---  | ---  | Average | Vertical  |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

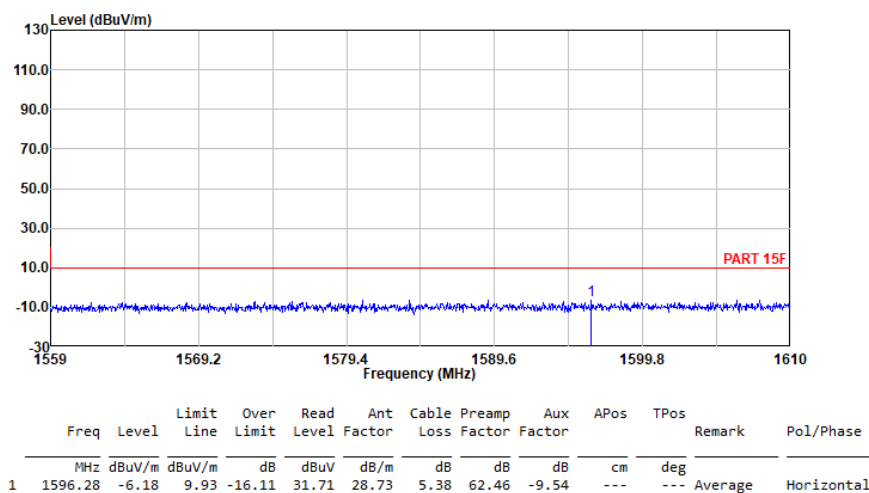
Note 5:

- Distance extrapolation factor =  $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$  (dB)  
**Example:** Distance extrapolation factor =  $20 \log (1\text{m}/3\text{m}) = -9.54$  (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



## CH09 Radiated Emissions (1559MHz – 1610MHz)

|                    |                                          |               |    |
|--------------------|------------------------------------------|---------------|----|
| Test Mode          | Mode 12: cidx-10_sts-1_packet length-127 | Polarization  | H  |
| Operating Function | Adapter Mode                             | Test Distance | 1m |



Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

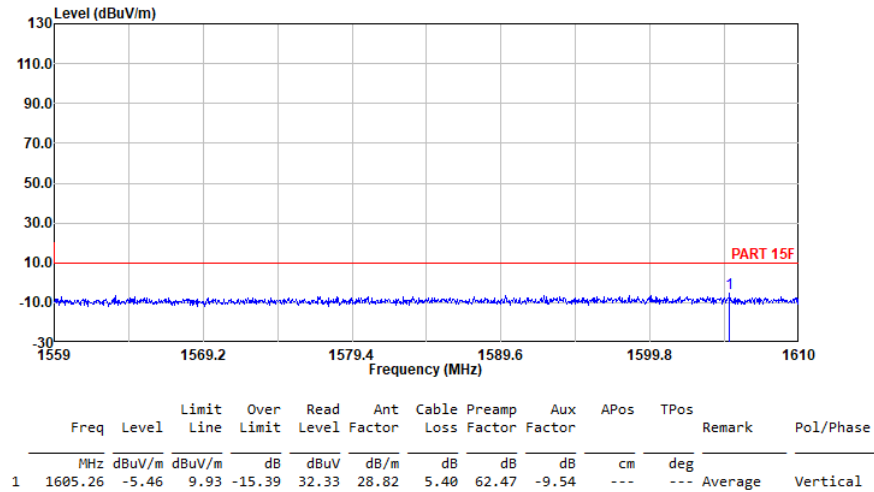
Note 5:

- Distance extrapolation factor =  $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$  (dB)  
**Example:** Distance extrapolation factor =  $20 \log (1\text{m}/3\text{m}) = -9.54$  (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



## CH09 Radiated Emissions (1559MHz – 1610MHz)

|                    |                                          |               |    |
|--------------------|------------------------------------------|---------------|----|
| Test Mode          | Mode 12: cidx-10_sts-1_packet length-127 | Polarization  | V  |
| Operating Function | Adapter Mode                             | Test Distance | 1m |



Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: “N/F” means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5:

- Distance extrapolation factor =  $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$  (dB)  
**Example:** Distance extrapolation factor =  $20 \log (1\text{m}/3\text{m}) = -9.54$  (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Distance Factor (Aux Factor) (dB) = Level (dBuV/m)



## 4 Test Equipment and Calibration Data

| Instrument                           | Manufacturer | Model No.                  | Serial No.       | Characteristics            | Calibration Date | Test Date                      | Due Date      | Remark                |
|--------------------------------------|--------------|----------------------------|------------------|----------------------------|------------------|--------------------------------|---------------|-----------------------|
| EMI Receiver                         | R&S          | ESCI7                      | 100768           | 9kHz~7GHz;                 | May 16, 2023     | Mar. 27, 2024                  | May 15, 2024  | Conduction (CO01-KS)  |
| AC LISN<br>(for auxiliary equipment) | MessTec      | AN3016                     | 060103           | 9kHz~30MHz                 | Oct. 11, 2023    | Mar. 27, 2024                  | Oct. 10, 2024 | Conduction (CO01-KS)  |
| AC LISN                              | MessTec      | AN3016                     | 060105           | 9kHz~30MHz                 | May 16, 2023     | Mar. 27, 2024                  | May 15, 2024  | Conduction (CO01-KS)  |
| AC Power Source                      | Chroma       | 61602                      | ABP00000<br>0811 | AC 0V~300V,<br>45Hz~1000Hz | Oct. 11, 2023    | Mar. 27, 2024                  | Oct. 10, 2024 | Conduction (CO01-KS)  |
| EMI Test Receiver                    | Keysight     | N9038A                     | MY564000<br>04   | 3Hz~8.5GHz;M<br>ax 30dBm   | Oct. 10, 2023    | Apr. 26, 2024~<br>May 18, 2024 | Oct. 09, 2024 | Radiation (03CH06-KS) |
| EXA Spectrum Analyzer                | Keysight     | N9010B                     | MY602421<br>26   | 10Hz~44GHz                 | Oct. 10, 2023    | Apr. 26, 2024~<br>May 18, 2024 | Oct. 09, 2024 | Radiation (03CH06-KS) |
| Loop Antenna                         | R&S          | HFH2-Z2                    | 100321           | 9kHz~30MHz                 | Oct. 10, 2023    | Apr. 26, 2024~<br>May 18, 2024 | Oct. 09, 2024 | Radiation (03CH06-KS) |
| Bilog Antenna                        | TeseQ        | CBL6111D                   | 59913            | 30MHz~1GHz                 | Aug. 19, 2023    | Apr. 26, 2024~<br>May 18, 2024 | Aug. 18, 2024 | Radiation (03CH06-KS) |
| Double Ridge Horn Antenna            | ETS-Lindgren | 3117                       | 00240132         | 1GHz~18GHz                 | Jul. 12, 2023    | Apr. 26, 2024~<br>May 18, 2024 | Jul. 11, 2024 | Radiation (03CH06-KS) |
| SHF-EHF Horn                         | Com-power    | AH-840                     | 101093           | 18GHz~40GHz                | Jan. 05, 2024    | Apr. 26, 2024~<br>May 18, 2024 | Jan. 04, 2025 | Radiation (03CH06-KS) |
| Amplifier                            | SONOMA       | 310N                       | 380827           | 9KHz ~1GHZ                 | Jul. 06, 2023    | Apr. 26, 2024~<br>May 18, 2024 | Jul. 05, 2024 | Radiation (03CH06-KS) |
| Amplifier                            | MITEQ        | EM18G40GG<br>A             | 060728           | 18~40GHz                   | Jan. 04, 2024    | Apr. 26, 2024~<br>May 18, 2024 | Jan. 03, 2025 | Radiation (03CH06-KS) |
| high gain Amplifier                  | MITEQ        | AMF-7D-0010<br>1800-30-10P | 2082395          | 1Ghz-18Ghz                 | Jan. 04, 2024    | Apr. 26, 2024~<br>May 18, 2024 | Jan. 03, 2025 | Radiation (03CH06-KS) |
| Amplifier                            | Keysight     | 83017A                     | MY532703<br>19   | 500MHz~26.5G<br>Hz         | Oct. 10, 2023    | Apr. 26, 2024~<br>May 18, 2024 | Oct. 09, 2024 | Radiation (03CH06-KS) |
| AC Power Source                      | Chroma       | 61601                      | F1040900<br>04   | N/A                        | NCR              | Apr. 26, 2024~<br>May 18, 2024 | NCR           | Radiation (03CH06-KS) |
| Turn Table                           | ChamPro      | EM 1000-T                  | 060762-T         | 0~360 degree               | NCR              | Apr. 26, 2024~<br>May 18, 2024 | NCR           | Radiation (03CH06-KS) |
| Antenna Mast                         | ChamPro      | EM 1000-A                  | 060762-A         | 1 m~4 m                    | NCR              | Apr. 26, 2024~<br>May 18, 2024 | NCR           | Radiation (03CH06-KS) |

NCR: No Calibration Required.

## 5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage  $K=2$  to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.84 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.3 dB |
|-------------------------------------------------------------------------|--------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.06 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.18 dB |
|-------------------------------------------------------------------------|---------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.38 dB |
|-------------------------------------------------------------------------|---------|

----- THE END -----